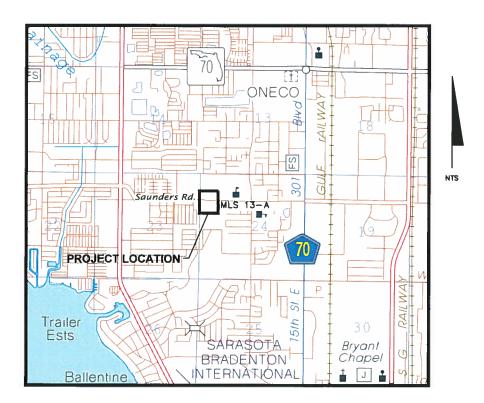


# CONTRACT DRAWINGS MLS 13-A (RTU #408) **EMERGENCY GENERATOR REPLACEMENT** FOR

MANATEE COUNTY, FLORIDA **COUNTY PROJECT NUMBER: 6022382** 

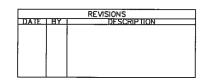


UTILITY WARNING NOTE PLANS PREPARED BY: ABOVE GROUND AND / OR UNDERGROUND UTILITIES MAY BE IN THE AREA OF THIS PROJECT - PROCEED WITH CAUTION - THE CONTRACTOR SHALL CALL SUNSHINE STATE "ONE CALL" AT 1-800-432-4770 AND THE UTILITY OWNERS IN ADVANCE OF BEGINNING WORK, IN ACCORDANCE WITH CHAPTER 556, FLORIDA Gardno STATUTES. Shaping the Future 380 PARK PLACE BLVD, STE 300, CLEARWATER, FL 33755 TEL: (727) 531- 3505 (800) 861- 8314 www.cardno.com Certificate of Author

> KELLY S. WEHNER, PE ENGINEER OF RECORD

60273 FL. LICENSE NO.

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.





FILE J 100193100193009 06/acad/dwg/CoverUT-1 dwg LAST SAVED Mon. 09/14/15-10.39a PLOTTED Mon. 10/19/15-11 27a BY Dave Shivel

# **INDEX OF SHEETS**

SHEET NO	SHEET DESCRIPTION
G-1	COVER
G-2	GENERAL NOTES & SYMBOLOGY
C-1	SITE PLAN
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C-3	BUILDING LAYOUT
C-4	SITE PHOTOS
C-5	DETAIL SHEET
E-1 TO E-6	ELECTRICAL SHEETS
S-1	STRUCTURAL SHEET - GENERATOR BUILDING PLAN AND DETAILS



DATE:	SEPT 2015
SHEET:	G-1

# **GENERAL NOTES**

- ALL WORKMANSHIP AND MATERIALS USED IN THE CONSTRUCTION OF THIS PROJECT SHALL BE NEW AND UNUSED AND CONFORM TO, OR EXCEED THE LATEST LOCAL JURISDICTION STANDARDS.
- CONTACT <u>SUNSHINE STATE ONE CALL</u> FOR UTILITY LOCATES A MINIMUM OF 48-HOURS AND A MAXIMUM OF 5-DAYS PRIOR TO START OF CONSTRUCTION AT 1-800-432-4770. 2
- THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS A MINIMUM OF 2-DAYS AND A MAXIMUM OF 5-DAYS З. PRIOR TO START OF CONSTRUCTION

UTILITY OWNER	CONTACT NAME	CONTACT NUMBER
BRIGHT HOUSE NETWORKS	TOM WRIGHT	(941) 345-1348 EXT 21348
FLORIDA POWER AND LIGHT	TRACY STERN	(800) 868-9554
TECO PEOPLES GAS	DANNY SHANAHAN	(941) 342-4006
VERIZON FLORIDA INC.	DAVID WYNNS	(813) 978-2164
MANATEE COUNTY TRANSPORTATION	KATHY McMAHON	(941) 792-8811 EXT 5002
MANATEE COUNTY UTILITY OPERATIONS	KATHY McMAHON	(941) 792-8811 EXT 5002

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT EPI//GTE FOR RESTRAINING OF POLES DURING CONSTRUCTION, ALL ASSOCIATED COSTS WILL BE AT CONTRACTOR'S EXPENSE
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT ALL CONSTRUCTION ACTIVITIES SHALL CONFORM TO THE LOCAL NOISE ORDINANCE
- HOURS OF WORK SHALL BE: NON-FEDERAL HOLIDAYS, MONDAY FRIDAY 7AM 5PM. WORK OUTSIDE 6 THESE HOURS MUST BE SCHEDULED 48 HOURS IN ADVANCE AND MAY BE SUBJECT TO REIMBURSEMENT FOR ADDITIONAL INSPECTION SERVICES.
- THE CONTRACTOR SHALL OBTAIN REQUIRED PERMITS PRIOR TO CONSTRUCTION, THESE MAY 7. INCLUDE
  - UTILITY CONSTRUCTION PERMIT.
  - R.O.W. USE PERMIT
  - EPA NPDES PERMIT

NO.

FILE J 100193100193009 061acad

- DEWATERING PERMIT (AS REQUIRED)
- TREE REMOVAL PERMIT
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION SAFETY, SPECIAL PRECAUTIONS MAY BE REQUIRED IN THE VICINITY OF POWER LINES AND OTHER UTILITIES.
- THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN ALL NECESSARY TRAFFIC CONTROL AND 9. SAFETY DEVICES, IN ACCORDANCE WITH THE US DEPARTMENT OF TRANSPORTATION, "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND THE LATEST FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS", LATEST EDITION AND CONTRACT SPECIFICATIONS.
- THE CONTRACTOR SHALL PROVIDE FRECT AND MAINTAIN FEFECTIVE BARRICADES, DANGER 10 SIGNALS, SIGNS AND PEDESTRIAN DETOURS IN ALL AREAS WHERE REQUIRED FOR THE PROTECTION OF THE WORK AND THE SAFETY OF THE PUBLIC.
- THE CONTRACTOR SHALL PROVIDE ACCESS FOR TRAFFIC AT ALL TIMES DURING CONSTRUCTION CONSTRUCTION SHALL BE CONDUCTED IN SUCH A MANNER THAT RESIDENTS RETAIN ACCESS TO 11. THEIR DRIVEWAYS AT ALL TIMES.
- 12. REFERENCES TO FDOT INDEXES REFER TO THE MOST RECENT EDITION OF THE FDOT "ROADWAY AND TRAFFIC DESIGN STANDARDS.
- 13. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL AND PREVENT EROSION AND THE TRANSPORTATION OF SEDIMENT TO SURFACE DRAINS AND OUTFALLS
- THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE A REVIEW OF THE SITE TO DETERMINE EXISTING 14. CONDITIONS AND ANYTHING NOT SHOWN ON THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND SHALL NOT CONSTITUTE AN EXTRA APPROVED BY THE ENGINEER.
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY DAMAGED ITEMS INCLUDING, BUT NOT LIMITED TO, DRIVEWAYS, IRRIGATION SYSTEMS, MAILBOXES, SIDEWALKS, STREET SIGNS, AND PRIVATE FENCES AS REQUIRED BY E.O.R./OTHER GOVERNING ENTITIES.
- ALL SECTION CORNERS OR PROPERTY CORNERS DISLOCATED OR DISTURBED BY THE 16 CONSTRUCTION ACTIVITIES SHALL BE RESET BY A REGISTERED LAND SURVEYOR AT THE CONTRACTORS EXPENSE.
- 17. ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER UNLESS OTHERWISE NOTED. FINAL GRADE IS TO GENERALLY BE THE SAME AS EXISTING GRADE. RESTORE UNIFORMLY AND FOR PROPER DRAINAGE GRADE TOWARD ROADWAY.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DISPOSAL OF ALL CLEARED VEGETATION WITHIN FIVE 18 (5) DAYS OF CLEARING AND GRUBBING WORK
- ALL EXCESS SOIL RESULTING FROM CONSTRUCTION ACTIVITIES THAT IS NOT CLAIMED BY THE 19 OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND PROPERLY DISPOSED OF BY THE CONTRACTOR

- 20. ALL VOIDS AFTER PLACEMENT OF SOD SHALL BE FILLED WITH PREPARED SOIL MIX. THE SOD SHALL BE ROLLED TO MEET THE PROPOSED GRADES, SOD PLACED ON SLOPES (3:1 OR STEEPER) SHALL BE PEGGED
- AREAS OF EXPOSED FARTH RESULTING FROM CONSTRUCTION SHALL BE SODDED IN KIND AS 21. DIRECTED BY THE ENGINEER UNLESS OTHERWISE NOTED ON PLANS.
- LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER 22. FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE PLANS, BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THE CONTRACTOR SHALL VERIFY THE LOCATION, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING HIS WORK PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY IN THE FIELD THE LOCATION AND ELEVATION OF ALL EXISTING 23. UTILITY CONNECTION POINTS PRIOR TO STARTING CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY THE ENGINEER AND OWNER OF ANY DISCREPANCIES FOUND.
- THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THERE MAY BE SOME CONFLICTS. IT 24 SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE, PROTECT, AND REPLACE (IF DAMAGED) ANY AND ALL EXISTING UTILITIES ON THIS PROJECT AT THEIR OWN EXPENSE
- 25. THE CONSTRUCTION LIMITS INDICATED IN THESE PLANS ARE APPROXIMATE, ACTUAL LIMITS MAY BE SET IN THE FIELD AS DIRECTED BY THE ENGINEER
- ALL POTABLE WATER, FIRE, IRRIGATION SYSTEM, SANITARY SYSTEM, STORM SYSTEM AND OTHER 26. UTILITIES COMPONENTS SHALL BE PROTECTED AND SHALL REMAIN OPERATIONAL DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY REPAIR ANY DAMAGE TO THE SYSTEMS.
- 27. CONTRACTOR SHALL ENSURE THAT EXCAVATIONS ARE FREE OF DEBRIS PRIOR TO BACKFILLING.
- THE CONTRACTOR SHALL NOT ENTER OR OCCUPY ANY LAND OUTSIDE THE RIGHTS-OF-WAY OR 28 PRIVATE PROPERTY WITHOUT THE WRITTEN CONSENT OF THE PROPERTY OWNER
- THE CONTRACTOR SHALL TAKE ALL REASONABLE MEANS TO ELIMINATE THE TRANSPORT OF DUST 29 FROM THE PROJECT SITE. SPECIAL MEASURES, SUCH AS PERIODICALLY APPLYING WATER TO THE WORK SITE TO PREVENT DUST SHALL BE INCORPORATED INTO THE CONTRACTORS WORK PLAN.
- WHERE REFERENCED STANDARDS CONFLICT. THE MORE STRINGENT STANDARD SHALL APPLY. 30
- CONTRACTOR SHALL SUPPORT AND PROTECT ALL EXISTING UTILITIES AS REQUIRED. THIS SHOULD 31 INCLUDE BY-PASS PUMPING IF REQUIRED.



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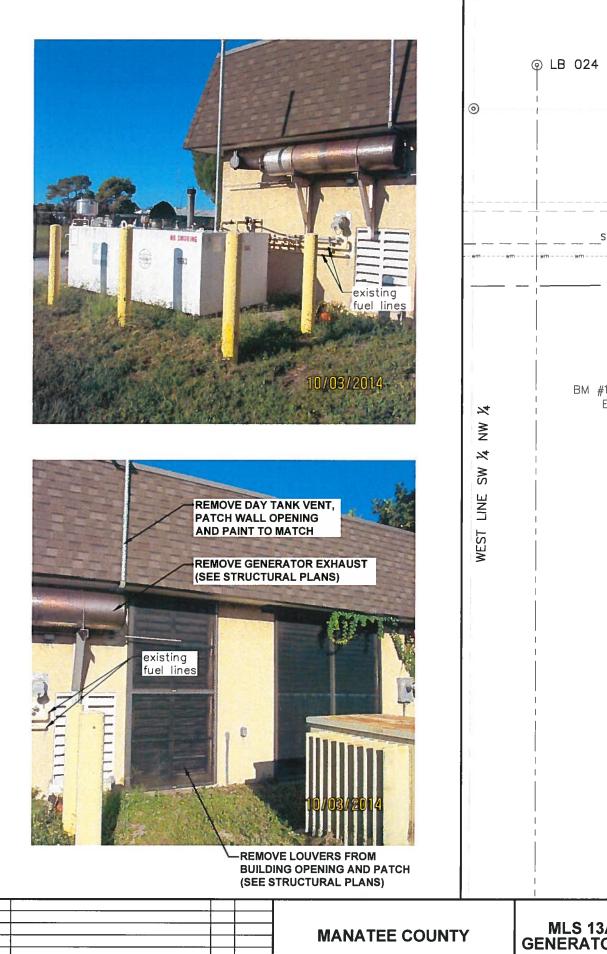


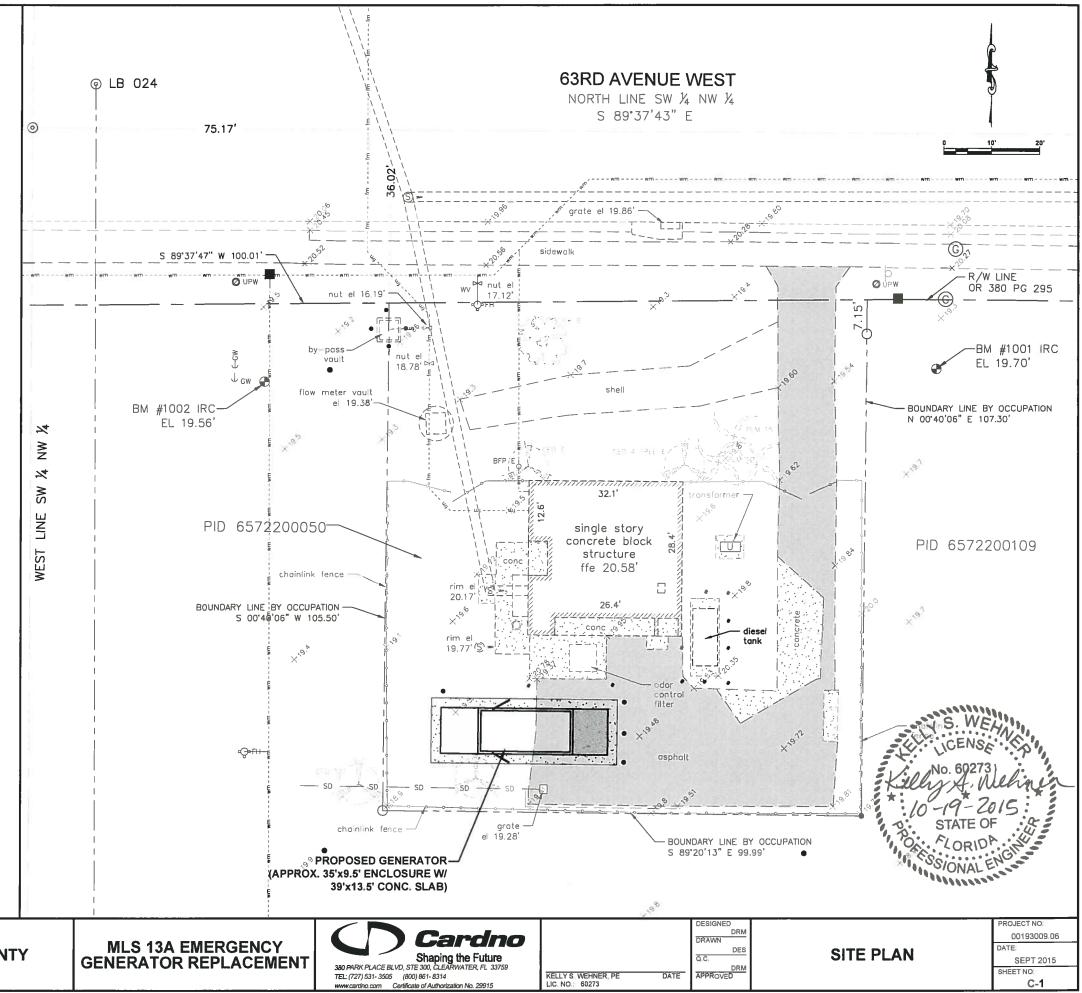
			MANATEE COUNTY
DESCRIPTION	BY	DATE	
CoverUT-1 dwg LAST SAVED: Tue, 01/12/16-9 10a PL	DITED T	ue. 01/12/16-3 0	4o BY Dave Stavely

# **MLS 13A EMERGENCY** GENERATOR REPLACEMENT

	) Cardno	
	Shaping the Future	
0 PARK PLACE BI	VD, STE 300, CLEARWATER, FL 33759	
1.: (727) 531- 3505	(800) 861-8314	
ww.cardino.com	Certificate of Authorization No. 29915	

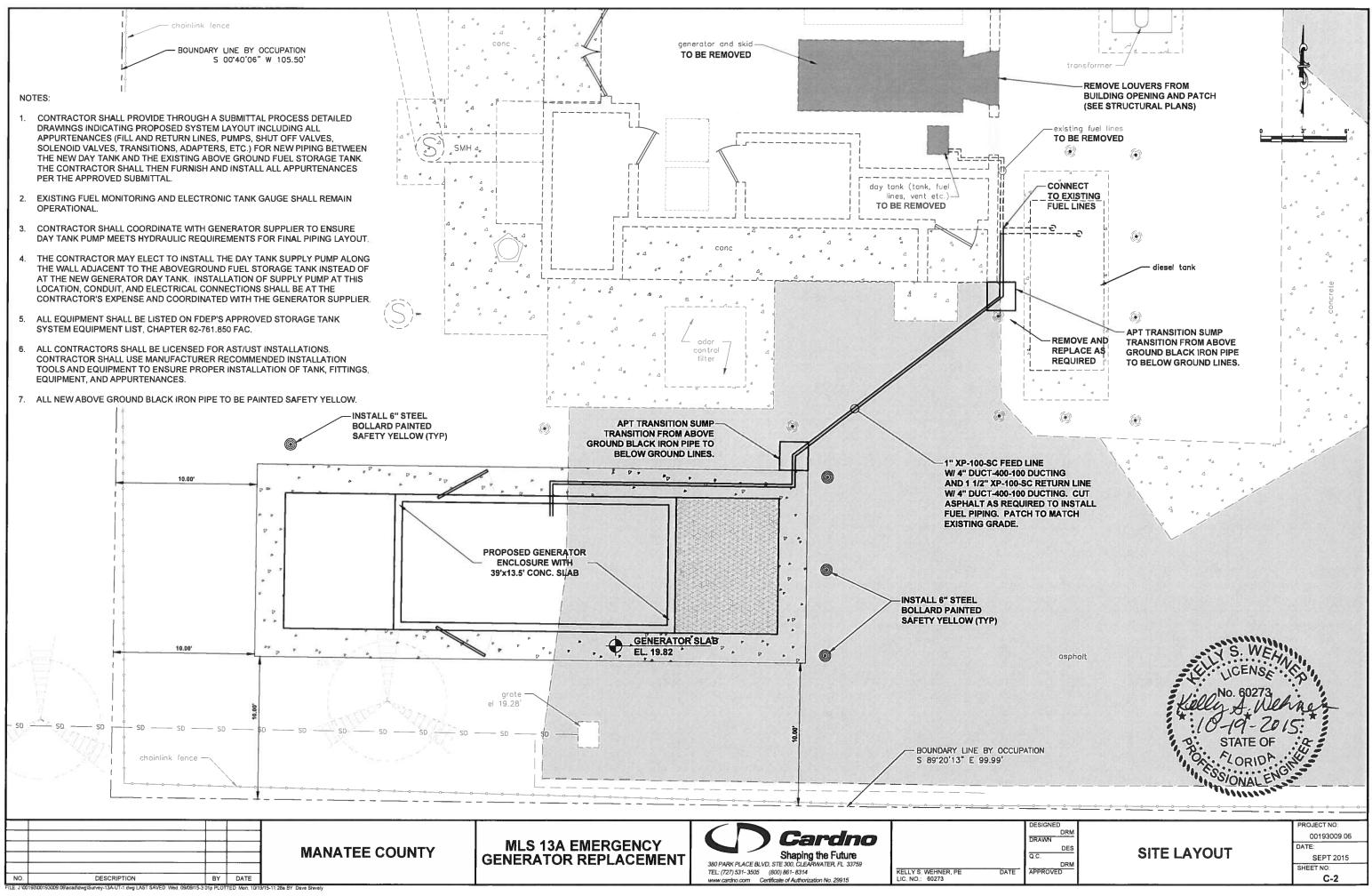
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	ILITY POLE ILITY ANTENNA TER CONTROL VALVE PE NTROL PANEL CKFLOW PREVENTER E BENCHMARK	 N	
	E TREE	MAPLE TREE	
THE ELEVATIONS IND "WHITE 2. THIS SURVEY IS SYSTEM (WEST ZONE 3. TITLE WORK WAS BASED ON FOUND B AVAILABLE ON THE M	ASH" NAVD 1988 ELEVATION REFERENCED TO A PROJECTI NAD 1983/2007 ADJUSTMEN NOT PROVIDED FOR THIS SI DUNDARY MONUMENTATION TO IANATEE COUNTY CLERK WEB SUBJECT TO PERTINENT EASI	18.29' ON OF THE FLORIDA STATE IT). JRVEY. PARCEL LINES SHOWI GETHER WITH PUBLIC II SITE.	PLANE COORDINATE N HEREIN ARE NFORMATION
	SURVEY PROV Yatt Survey S B No.: 7203 Geographic I 11007 8th Avenue East Brad Phone: (941) 748-4693 INE WORK & S	OCTVICES, INC. Data Specialists lenton, Florida 34212 Fax: (941) 744-1643	
EXISTING	ASPHALT ROADWAY BACK OF CURB SHELL DRIVEWAY CONCRETE DRIVEWAY RIGHT-OF-WAY/PROPERTY LINE PROPERTY LINE		CHAIN LINK FENCE BUILDING BOUNDARY TOP OF BANK WETLAND LINE GUARDRAIL CONTOUR LINE AND ELEV
WOTE:	PIPES 12-INCHES AND LARG WATER MAIN BURIED FIBER OPTIC GAS MAIN BURIED CABLE TV UNKNOWN UTILITY TED REPRESENT A COMPREHENS HEREFORE, NOT ALL OF THE SYN NECESSARILY USED ON THIS PA	BE         BE<	IZS. BURIED ELECTRIC BURIED TELEPHONE SANITARY FORCE MAIN RECLAIMED WATER MAIN TEST HOLE LOCATION
KELLY S. WEHNER, PE DATE LIC. NO.: 60273		NERAL NOTES & SYMBOLOGY	PROJECT NO: 00193009.06 DATE: SEPT 2015 SHEET NO: G-2



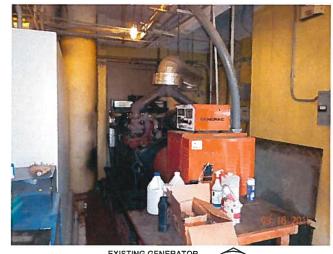


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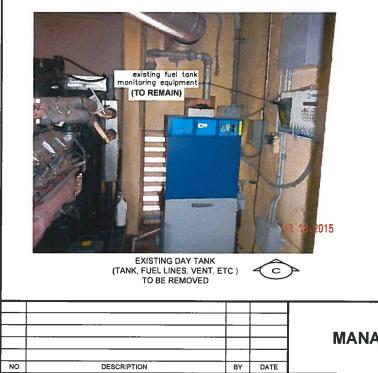
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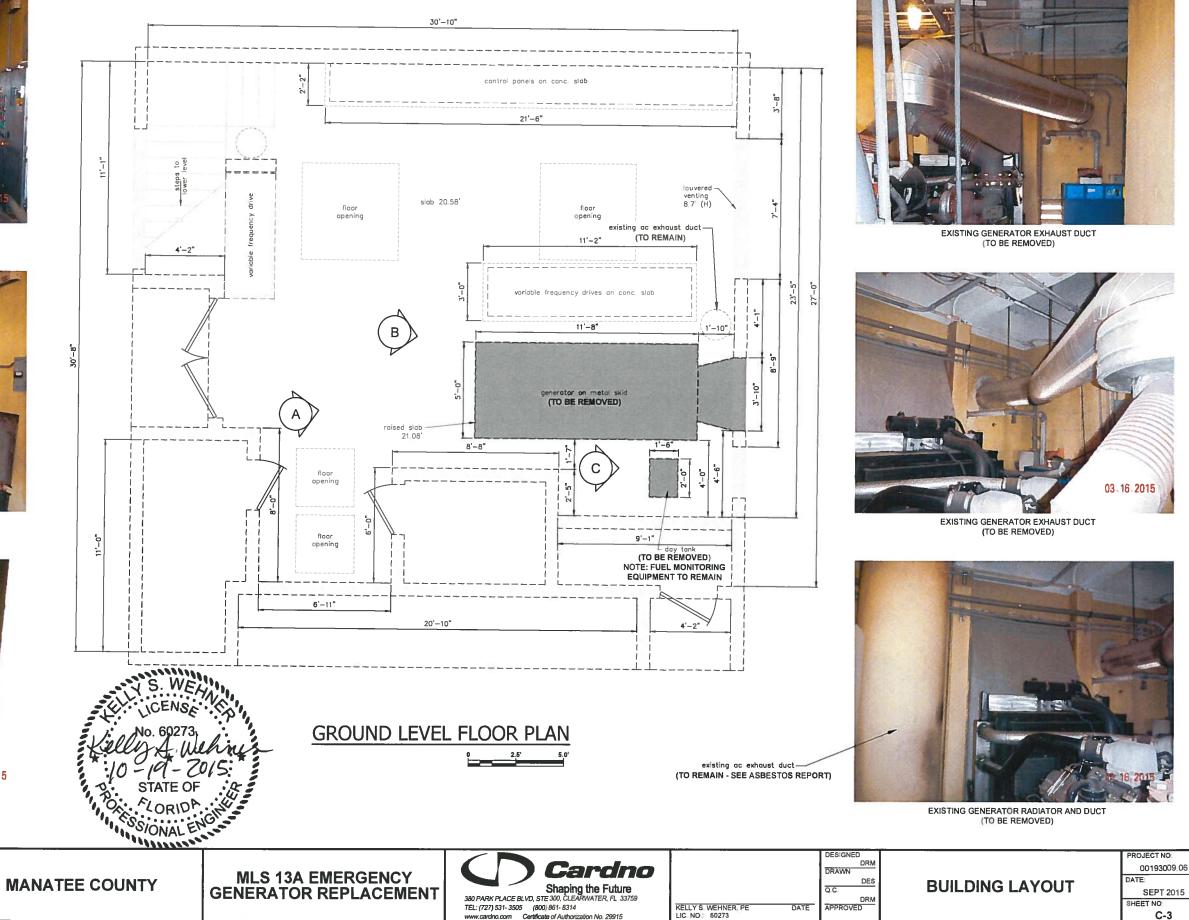






EXISTING GENERATOR (TO BE REMOVED) 





www.cardno.com Certificate of Authorization No. 2991

FILE: J 00193/00193009 06/acad/dwg/Survey-13A-UT-1 dwg LAST SAVED Wed, 09/09/15-3 01p PLOTTED Mon. 10/19/15 11 28a BY Dave Shive





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APPROVE	D

00193009.06

SHEET NO C-3



PROPOSED GENERATOR LOCATION (FACING WEST)

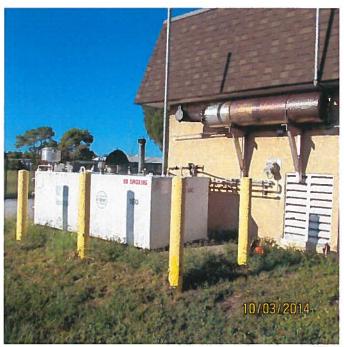


PROPOSED GENERATOR LOCATION (FACING WEST)

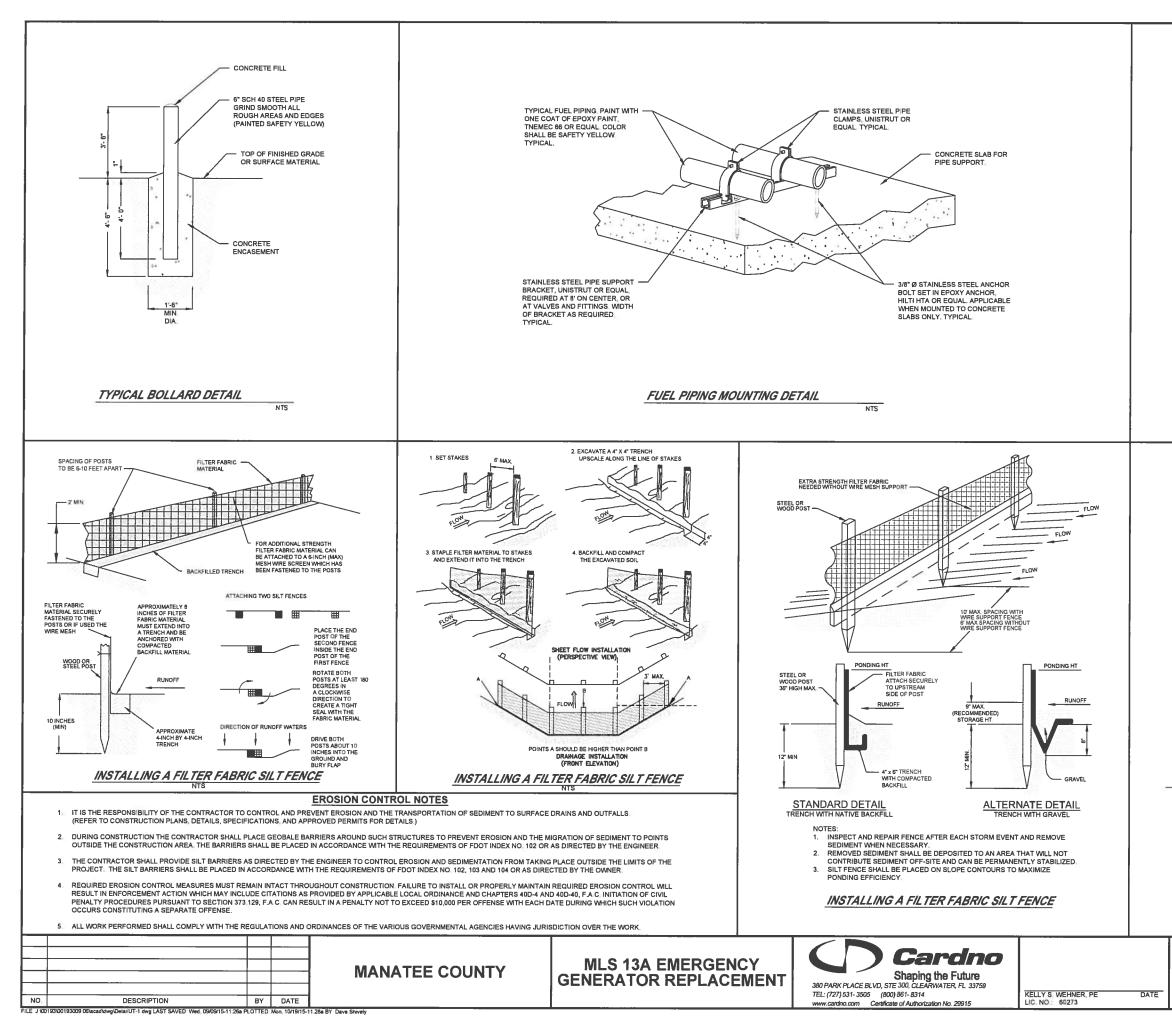


SITE PHOTO (FACING NORTH)

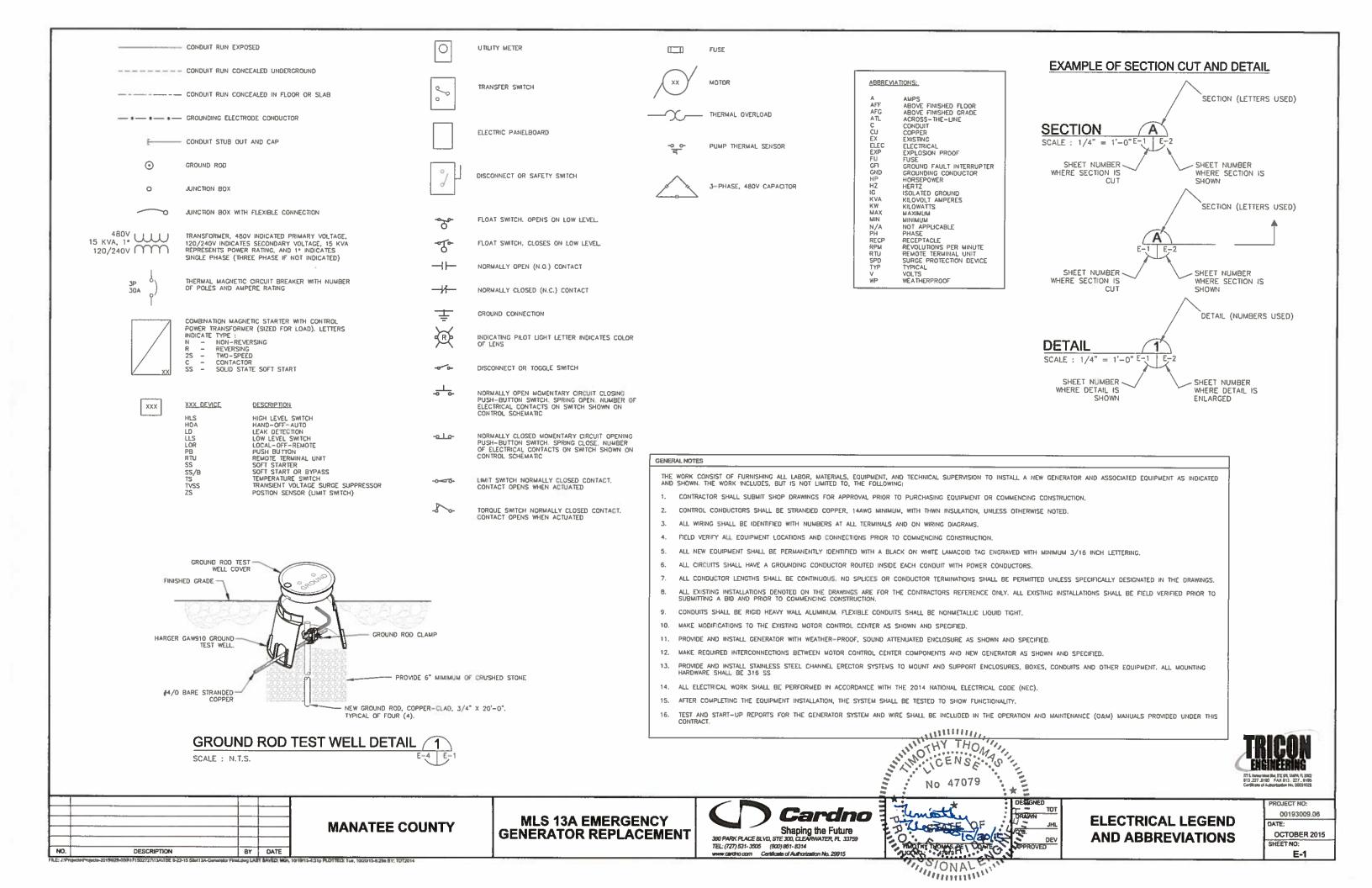


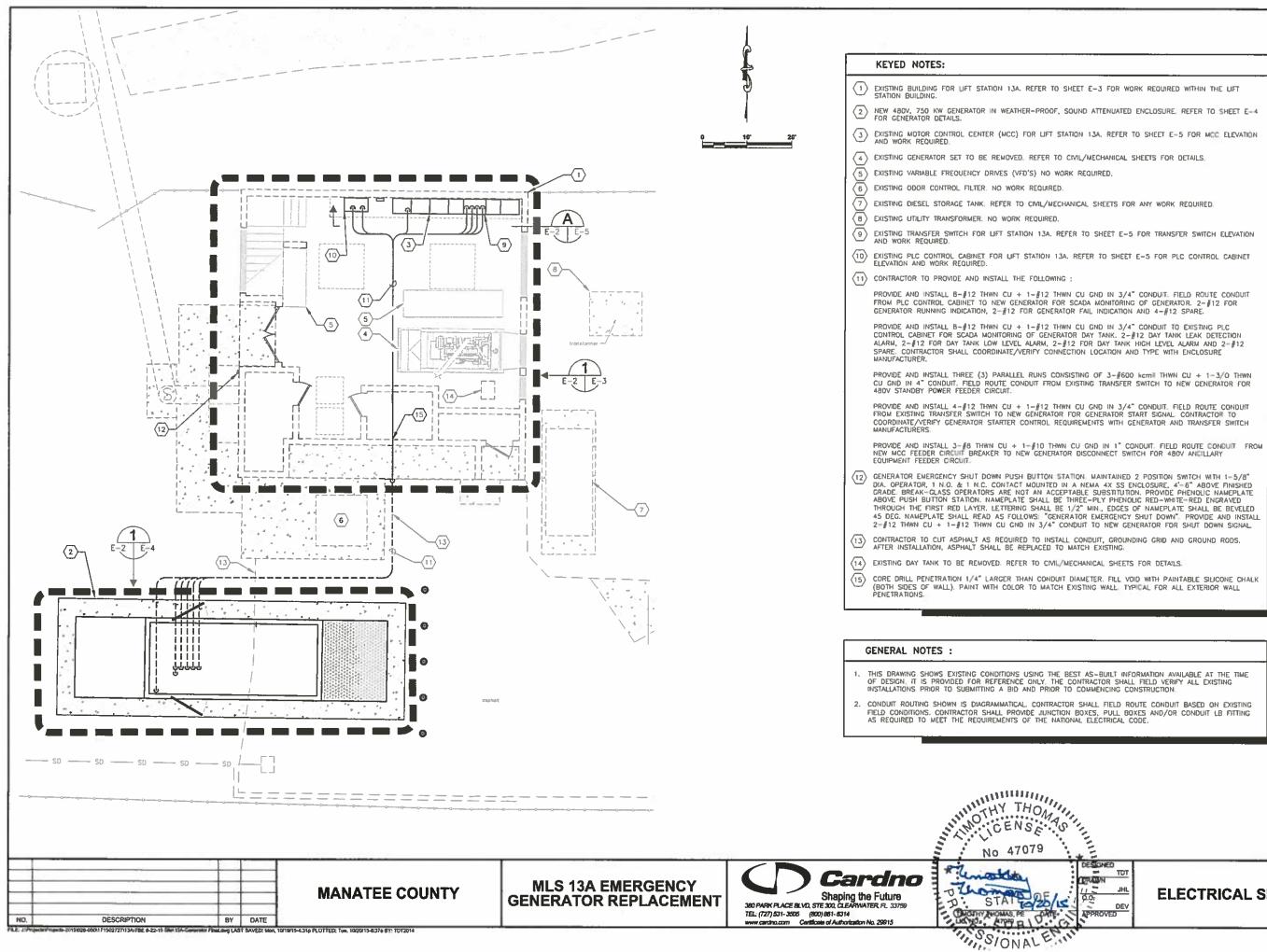


SITE PHOTO (FACING SOUTH WEST)



	Killing and the second se	NO. 60273 W.J. WEAN O -19-2015 STATE OF SS/ONAL ENGINE		
18°*	04/350/04/201	DECIDUOUS TREES	TO DRIP LINE CONIFEROUS TRI	
PALMS	AND SMALL TR	2" X 4" HORIZONTAL RAIL TYPICAL @ 4" LONG, MAX MULTIPLE RAILS, AS REQUIRED 2" X 4" POST, TYPICAL	LARGE TREES AND BU	SHES
NOTES:         1. NO TRUCKS OR HEAVY EQUIPMENT ALLOWED WITHIN BARRIERS, ONLY HAND LABOR ALLOWED.         2. NO CONSTRUCTION MATERIALS, SOILS DEPOSITS, OR SOLVENTS SHALL BE ALLOWED WITHIN BARRIERS.         3. BARRIERS ARE TO BE IN PLACE PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN TREE AREA.         4. BARRIERS ARE TO STAY IN PLACE UNTIL ALL PAVING, CONSTRUCTION, AND HEAVY EQUIPMENT IS REMOVED FROM THE AREA.         TREE PROTECTION BARRIERS DETAIL				
DESIGNED DRAWN DES Q.C. DRM APPROVED		DETAIL SHE	ΞT	PROJECT NO: 00193009.06 DATE: SEPT 2015 SHEET NO: C-5



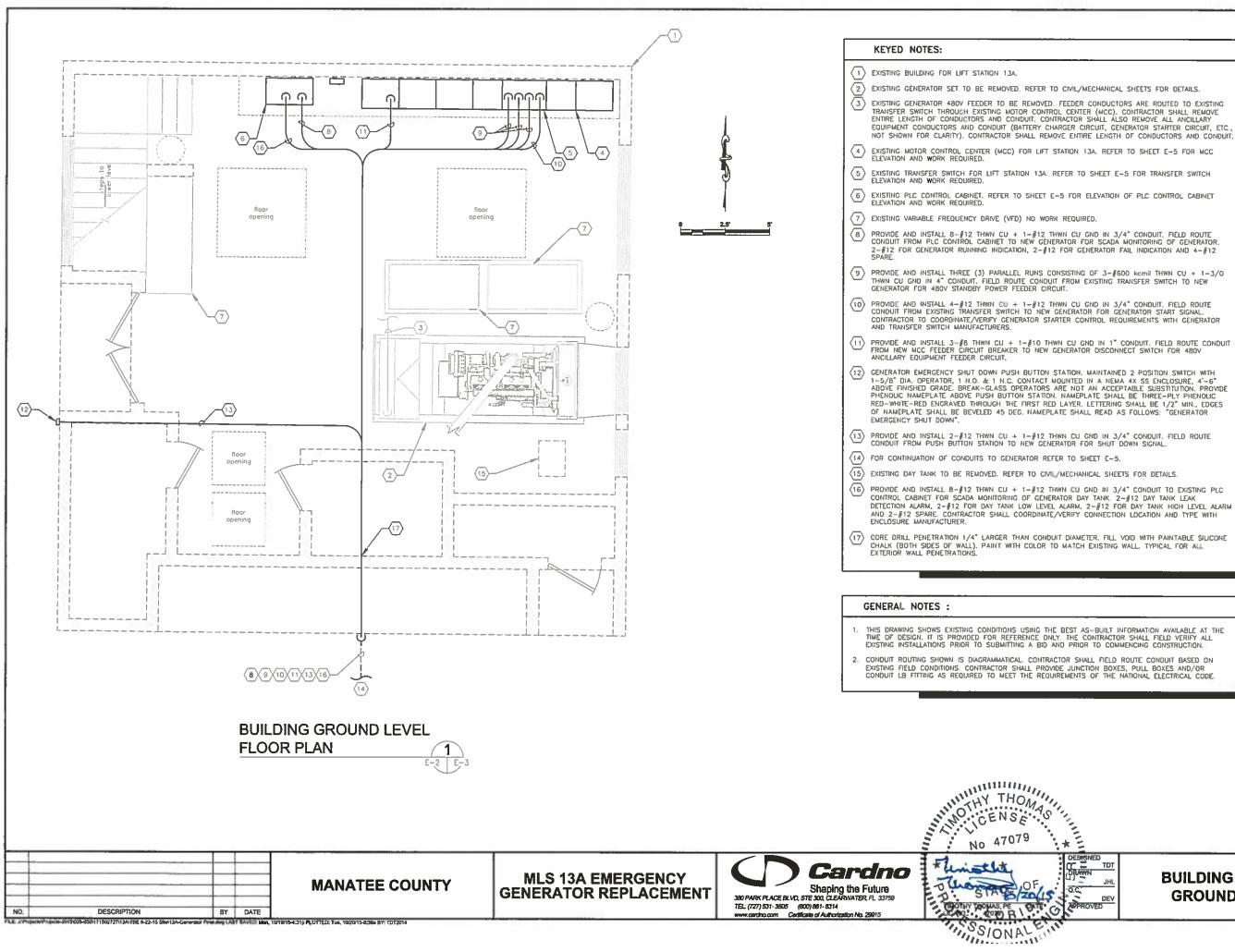




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76, Index Mod Bie, 83, 83, 74896, 9, 306 13 .227 .9190 FAX 613 .227 .9190

> OCTOBER 2015 SHEET NO: E-2

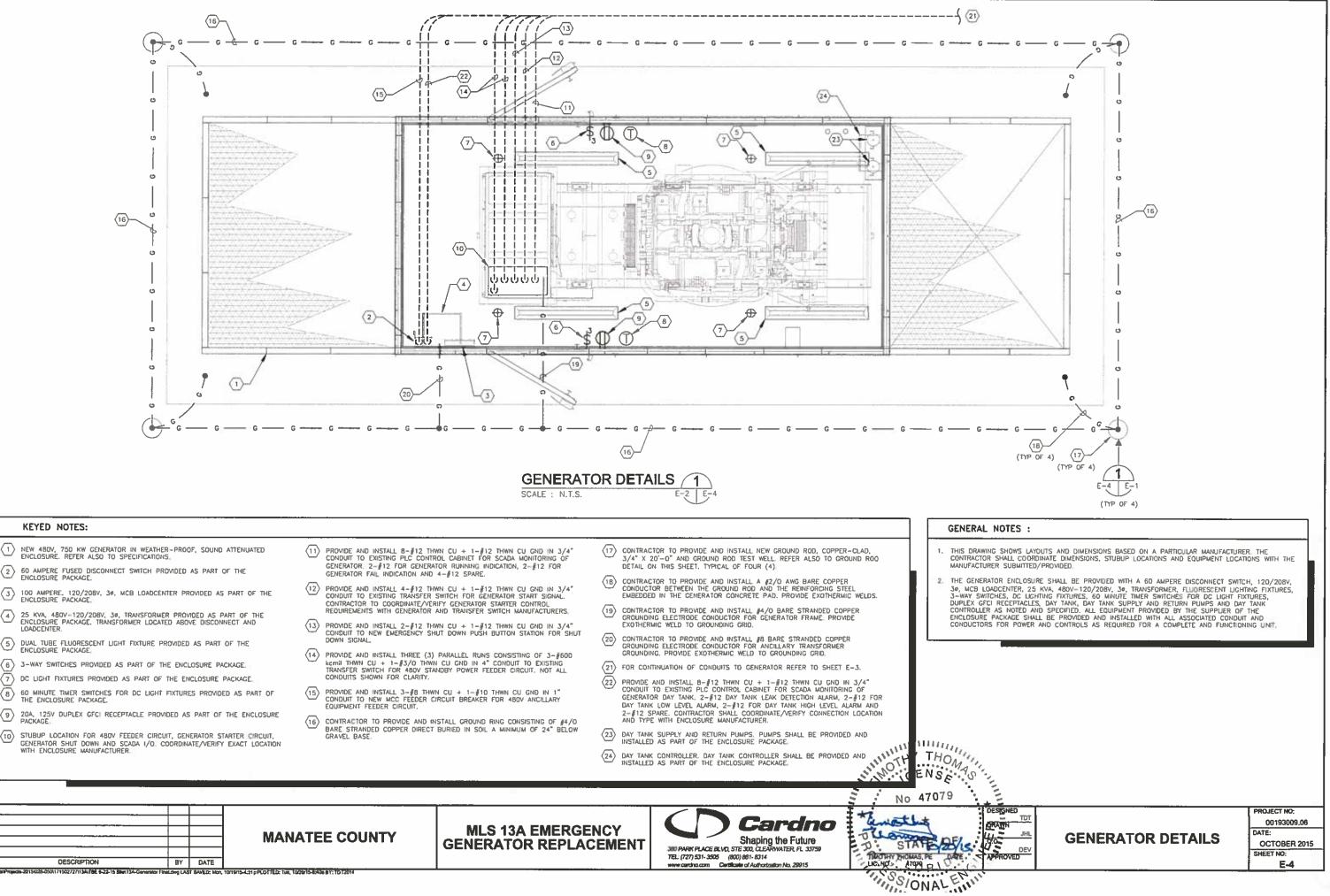






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DATE: OCTOBER 2015 SHEET NO: E-3



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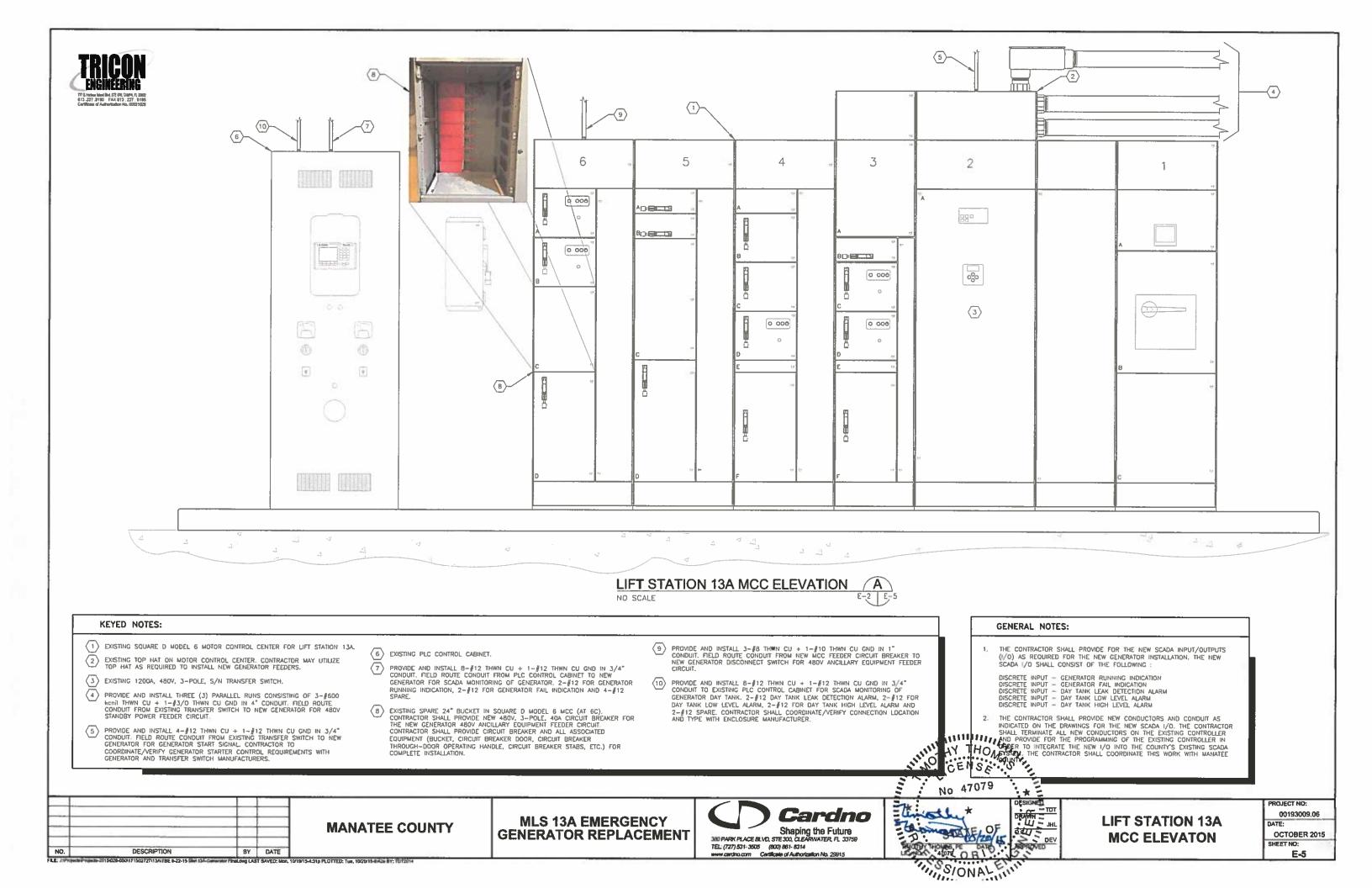
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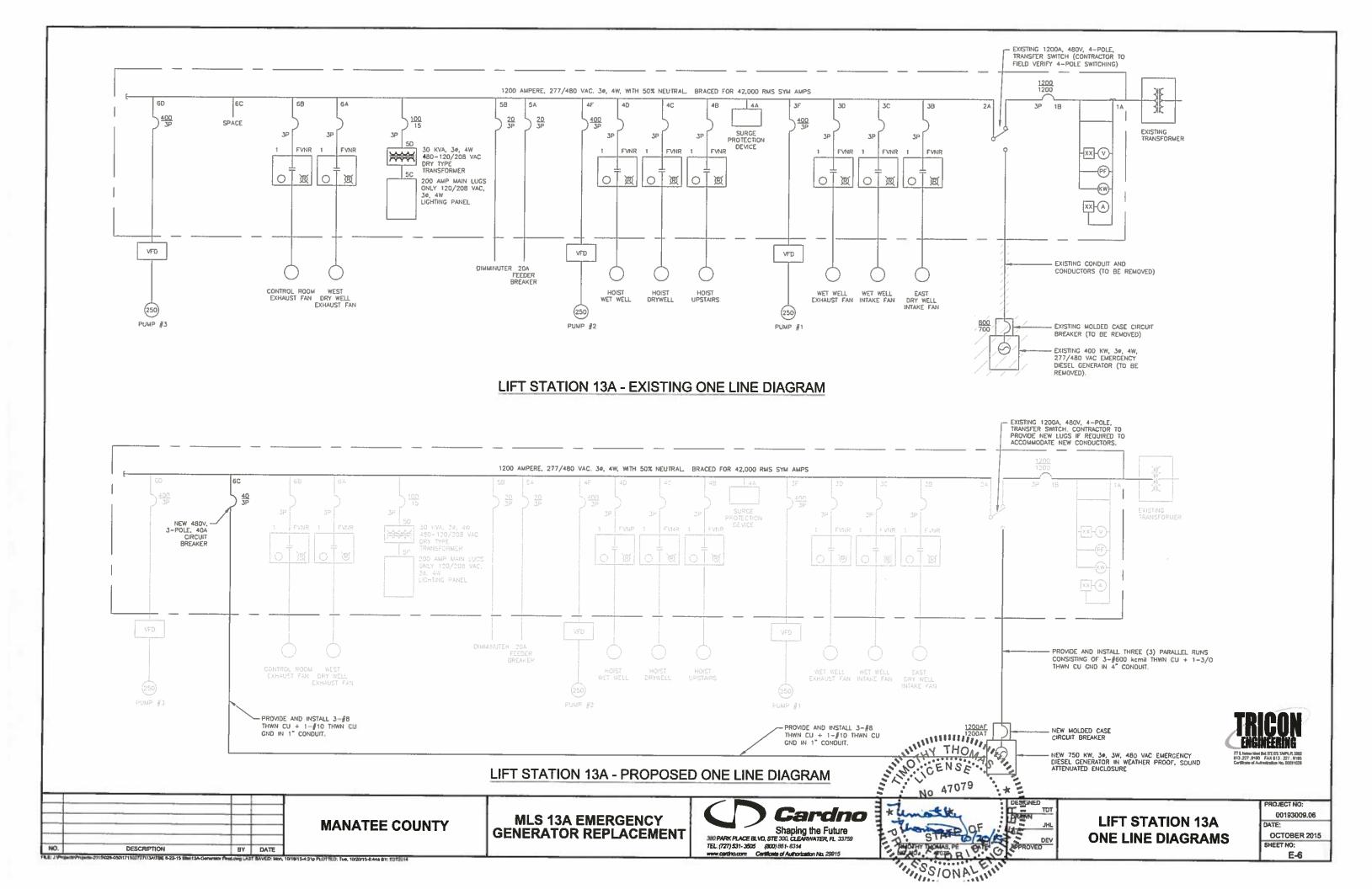
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# GENERAL STRUCTURAL NOTES

## DESIGN CRITERIA

### CODES:

2014 FLORIDA BUILDING CODE

# REINFORCED CONCRETE:

ACI 318-11 "BUILDING CODE REDUREMENTS FOR STRUCTURAL CONCRETE" MASONRY: "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (ACI 530-08/ASCE 5-08/TMS 402-08)

STRUCTURAL STEEL: AISC MANUAL OF STEEL CONSTRUCTION 13TH EDITION THE ALUMINUM ASSOCIATION, ALUMINUM DESIGN MANUAL 2005

### DESIGN LIVE LOADS:

- PROCESS RELATED STRUCTURES	
WALIOWAYS, STAIRWAYS AND LANDINGS ELEVATED SLABS PROCESS SLABS ON GRADE	100 PSF 200 PSF 300 PSF, UNO
SUPERIMPOSED DEADLOADS:	
- ROOFS - FLOORS	AS NOTED AS NOTED
WIND LOADS:	
- ULTIMATE DESIGN WIND SPEED, Var (3-SECOND GUST)	182 MPH

<ul> <li>ULTIMATE DESIGN WIND SPEED, V<sub>ILT</sub> (3-SECOND GUST)</li> </ul>	182 MPH
- NOMINAL DESIGN WIND SPEED, Vato	140 MPH
- RISK CATEGORY	10
- EXPOSURE CATEGORY	8
- ENCLOSURE CLASSIFICATION	PARTIALLY ENCLOSE
<ul> <li>INTERNAL PRESSURE COEFFICIENT, GCDI</li> </ul>	±0.55
- DESIGN PRESSURES: PER ASCE 7-10	

### GENERAL CONDITIONS

ALL STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE MECHANICAL, CIVIL, ELECTRICAL AND SHOP DRAWINGS AND SPECIFICATIONS.

THE CONTRACTOR SHALL REVIEW AND VERIFY DIMENSIONS SHOWN IN ALL PLANS AND REVIEW ALL FIELD CONDITIONS THAT MAY AFFECT THE INSTALLATION OF THE FACILITY. SHOULD DISCREPANCIES APPEAR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING TO OBTAIN ENGINEER'S CLARIFICATION BEFORE COMMENCING WITH THE WORK.

FOR ALL ITEMS EMBEDDED IN OR PASSED THROUGH CONCRETE, THE CONTRACTOR SHALL INITIALLY REFER TO MECHANICAL DRAWINGS FOR TYPE, SIZE, LOCATION, AND SPECIAL INSTALLATION REDUIREMENTS FOR THESE ITEMS.

THE CONTRACTOR SHALL TAKE ANY AND ALL NECESSARY MEASURES TO PROTECT EXISTING STRUCTURES FROM DAMAGE WHEN WORKING IN AND AROUND EXISTING STRUCTURES PERFORMING WORK SUCH AS DEMOLITION, FOUNDATION EXCAVATION, AND OTHERS.

SIZE AND LOCATION OF EQUIPMENT PADS AND ANCHOR BOLTS SHALL BE PER EQUIPMENT MANUFACTURERS REQUIREMENTS.

ANY EQUIPMENT THAT MAY INDUCE VIBRATION TO THE STRUCTURE SHALL BE ADEQUATELY ISOLATED FROM THE STRUCTURES.

ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR STUATION ELSEWHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN.

STANDARD DETAILS APPLY TO ALL SIMILAR SITUATIONS ON THE PROJECT EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN.

### CONCRETE

ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318 REQUIREMENTS (LATEST EDITION)

ALL CONCRETE SHALL BE AR-ENTRAINED WITH 4000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. SEE MIX DESIGN NOTES BELOW:

- FINE AGGRECATE: SAND CONFORMING TO REQUIREMENTS OF ASTM C33. - COURSE AGGRECATE: WELL GRADED CRUSHED STONE CONFORMING TO REQUIREMENTS OF ASTM C33. - WATER REDUCING AGENT SHALL BE IN ACCORDANCE WITH ASTM C494 - AR-ENTRAINING ADMIXTURE SHALL BE IN ACCORDANCE WITH ASTM C260 - MAXIMUM W/C RATIO : D.44 - SLUMP OF CONCRETE SHALL BE LAMTED TO 3" -5" - MAX.SUBSTITUTION OF FLY ASH : 25 % (CLASS C OR F) - PERCENT AIR ENTRAINMENT : 3-5

ALL CONCRETE SURFACES EXPOSED TO AR, SHALL BE TREATED WITH AN APPROPRIATE CURING METHOD AS SOON AS CEMENT FINISHING IS COMPLETE OR FORMS ARE REMOVED.

EXPOSED CONCRETE SLAB TO RECEIVE LIGHT BROOMED FINISH.

ALL EXPOSED CORNERS SHALL HAVE A MINIMUM CHAMFER OF ?" UNLESS OTHERWISE NOTED.

THE CONTRACTOR SHALL OBTAIN ENGINEER'S APPROVAL FOR THE LOCATIONS OF CONSTRUCTION JOINTS THAT ARE NOT SHOWN ON THE DRAWINGS.

BY DATE

### e/T ENGINEERING TECHNOLOGIES, INC.

3551 W. LAKE MARY BLVD., BUITE 210

NO

LAKE MARY, FL 32746 PHONE: (407) 322-0500 FAXI (407) 322-0023 ET PROJECT NO. - 10-141

DESCRIPTION

REINFORCING STEEL

REINFORCEMENT SHALL CONFORM TO ASTM A&15, GRADE & REQUIREMENTS. WELDED WIRE FABRC, ASTM A185, ALL ACCESSORIES SHALL BE IN CONFORMANCE WITH ACT 315 REQUIREMENTS. REINFORCING STEEL SHALL HAVE THE FOLLOWING CLEAR COVER UNLESS OTHERWISE NOTED:

- CONCRETE CAST AGAINST EARTH 

-	WATER OR EXPOSED TO WEATHER	2-
	FORMED SURFACES NOT EXPOSED TO WEATHER OR IN CONTACT WITH SOIL:	

-	SLABS,	WALLS, AND JOIST	3/4
-	BEAMS	AND COLUMNS	14°

3°

# LAP SPLICES SHALL BE AS SHOWN ON THE DRAWINGS. FOR LAP SPLICES NOT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL OBTAIN ENGINEERS APPROVAL

THE CONTRACTOR SHALL PREPARE PLACING DRAWINGS AND SCHEDULES IN CONFORMANCE WITH ACI 315 REQUIREMENTS.

UNLESS OTHERWISE NOTED, THE MINIMUM REINFORCING FOR ALL CONCRETE WALLS AND SLABS SHALL BE AS FOLLOWS:

# MINIMUM REINFORCING THICKNESS 0° B° 10° 12°-16° 18°-22° 24° REINF. EACH WAY #44T12° #54T12° #54T12°

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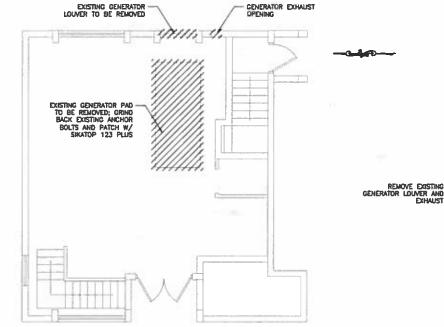
MQUNRT					
	DESIGN COMPRESSIVE STRENGTH OF MASONRY AT 28 DAYS	ťm	_	1500	PSI
-	ALLOWABLE STEEL STRESS	fa		24,000	PS

### MATERIALS:

BLOCK: CONFORM TO ASTM COO - LOAD BEARING, NORMAL WEIGHT TWO-CELL, 8"88"x16", 12"x8"x18".

mortar: conform to astm C270, type S, minimum compressive strength at 28 days  $\sim$  1800 psi. Utilize type 11 cement and type S lime. Masonry cement will not be considered.

- GROUT: CONFORM TO C476, COURSE GROUT, MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS 2500 PSI
- STEEL: BOND BEAM AND FILLED CELL REINFORCEMENT AS NOTED ON DRAWINGS (ASTM A615, GRADE 60). DUR-D-WALL OR EQUAL JOINT REINFORCEMENT AT



EXISTING SITE PLAN



