

COOLING TOWER REPLACEMENT ORANGE PARK CAMPUS

ST. JOHNS RIVER STATE COLLEGE ORANGE PARK, FLORIDA 32065

BID-SJR-02-2022

DISTRICT BOARD OF TRUSTEES

WENDELL D. DAVIS RICH KOMANDO MAKAYLA BUCHANAN JAN CONRAD JAMES REID W. J. (JUD) SAPP, JR. JOE H. PICKENS, J.D. RON BROWN, J.D.

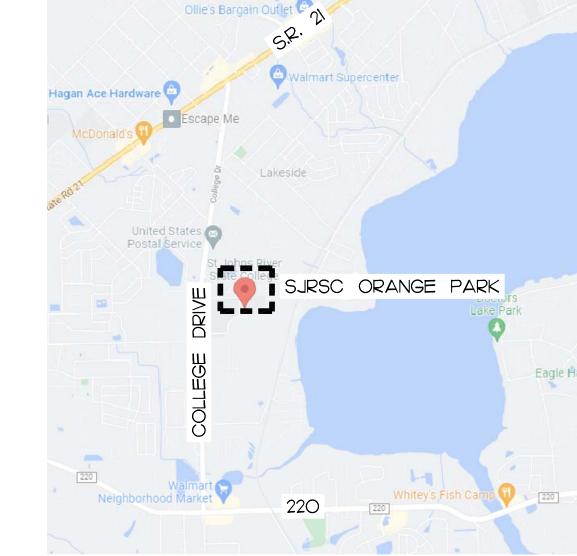
CHAIRPERSON VICE CHAIRPERSON

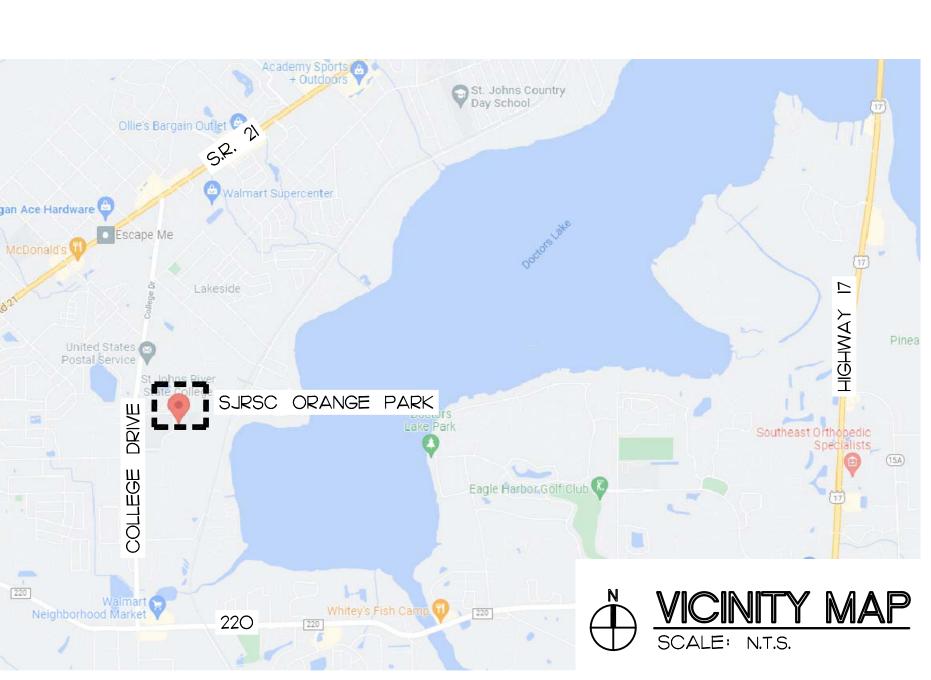
EXECUTIVE SECRETARY BOARD ATTORNEY

ADMINISTRATION

JOE H. PICKENS, J.D. MELANIE A. BROWN, Ph.D. LYNN M. POWERS, Ed.D.

PRESIDENT CHIEF ACADEMIC OFFICER/PROVOST CHIEF FINANCIAL OFFICER





)LLEGE JOHNS RIVER S LING TOWER R ST. JO

Seal/Signature:

2/1/22 AS NOTED

OI5WO7A

I. ALL WORK AND IMPROVEMENTS ARE CONFINED TO THE AREAS INDICATED IN THESE DRAWINGS. ALL WORK WILL BE INSTALLED BY A LICENSED CONTRACTOR AND THE APPROPRIATE LICENSED SUBCONTRACTORS IN STRICT ACCORDANCE WITH ALL GOVERNING CODES. 2. ALL WORK IS TO BE EXECUTED UNDER DIRECT SUPERVISION OF A CERTIFIED GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS, DIMENSIONS, AND COORDINATE ALL OPENINGS AND INSERTS WITH THE APPROPRIATE SUBCONTRACTORS. HANGING DEVICES SHALL BE INSTALLED SO AS NOT TO OVERLOAD THE ASSEMBLY OR ANY OTHER STRUCTURAL COMPONENTS. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE SAFETY OF THE BUILDING, ITS COMPONENTS, AND ALL PRESENT ON DIMENSIONS: ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR TO INSURE THE PROPER INTERFACING WITH EXISTING CONDITIONS. IF ANY CONFLICT OCCURS BETWEEN ANY PART OF THESES DOCUMENTS THE CONTRACTOR IS TO NOTIFY THE ARCHITECT IMMEDIATELY. IF THE ARCHITECT IS NOT AFFORDED THE OPPORTUNITY TO CLARIFY OR MODIFY ANY CONFLICTS, THE CONTRACTOR ASSUMES RESPONSIBILITY FOR RESOLVING ANY PROBLEMS WHICH MAY RESPONSIBILITY, IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES BUT IS NOT LIMITED TO THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS, OR TIE DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE MEANS AND METHODS REQUIRED TO ACHIEVE THE INTENT OF THESE DRAWINGS. CONFLICTS: WHERE CONFLICTS OCCUR BETWEEN THE SPECIFICATIONS, REFERENCED CODES, NOTES ,AND WORKING DRAWINGS, THE MOST STRINGENT REQUIREMENTS SHALL APPLY. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO NOTIFY THE ARCHITECT IMMEDIATELY OF ANY CONFLICTS FOR DIRECTION. COORDINATION: GENERAL CONTRACTOR SHALL COORDINATE ALL OPENINGS AND INSERTS WITH THE APPROPRIATE SUBCONTRACTORS ACCORDING TO THE PLANS. SEE SHOP DRAWINGS FOR ALL SUPPORTING STRUCTURES AND INSERTS REQUIRED BY THE VARIOUS BUILDING SYSTEMS. ALL SUPPORT STRUCTURES AND HANGING DEVICES SHALL BE INSTALLED SO AS NOT TO OVERLOAD THE STRUCTURE OR ANY STRUCTURAL COMPONENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE STRUCTURE AND ITS OCCUPANTS. SUBMITTALS, THE REVIEW OF VARIOUS SUBMITTALS BY THE VARIOUS SUBCONTRACTORS AND PRE-ENGINEERED SYSTEMS ENGINEER OF RECORD WILL BE TO: VERIFY THAT THE SUBMITTALS HAVE BEEN FURNISHED AND PREPARED BY A QUALIFIED PERSON, THAT THE PREPARER HAS UNDERSTOOD THE INTENT OF THE DESIGN AND THE CONSTRUCTION DOCUMENTS. NO DETAILED REVIEW WILL BE MADE BY THE ARCHITECT AND ENGINEER. THE GENERAL CONTRACTOR SHALL CHECK AND STAMP THE SHOP DRAWINGS INDICATING THAT A THOROUGH REVIEW WAS CONDUCTED AND STAMPED FOR CONFORMANCE PRIOR TO FORWARDING THEM TO THE ARCHITECT. THE ARCHITECT / ENGINEER WILL REVIEW THE SHOP DRAWING SUBMITTAL ONCE AND IF FOUND NOT TO BE IN CONFORMANCE, THE SUBMITTAL WILL BE

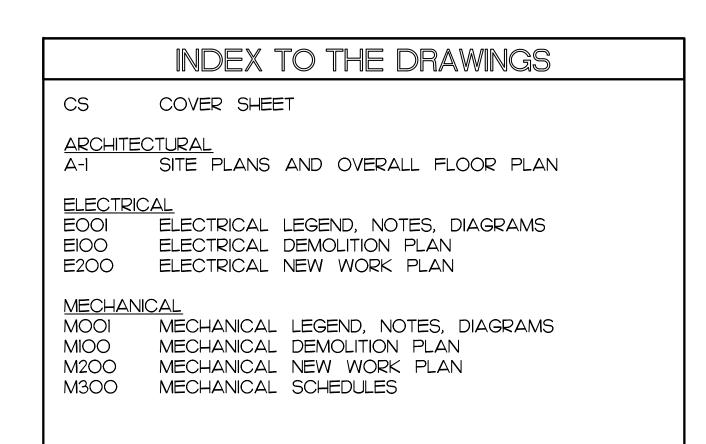
REJECTED. ADDITIONAL REVIEWS CAN BE PERFORMED FOR THE COST BURDEN DIRECTLY RELATED TO

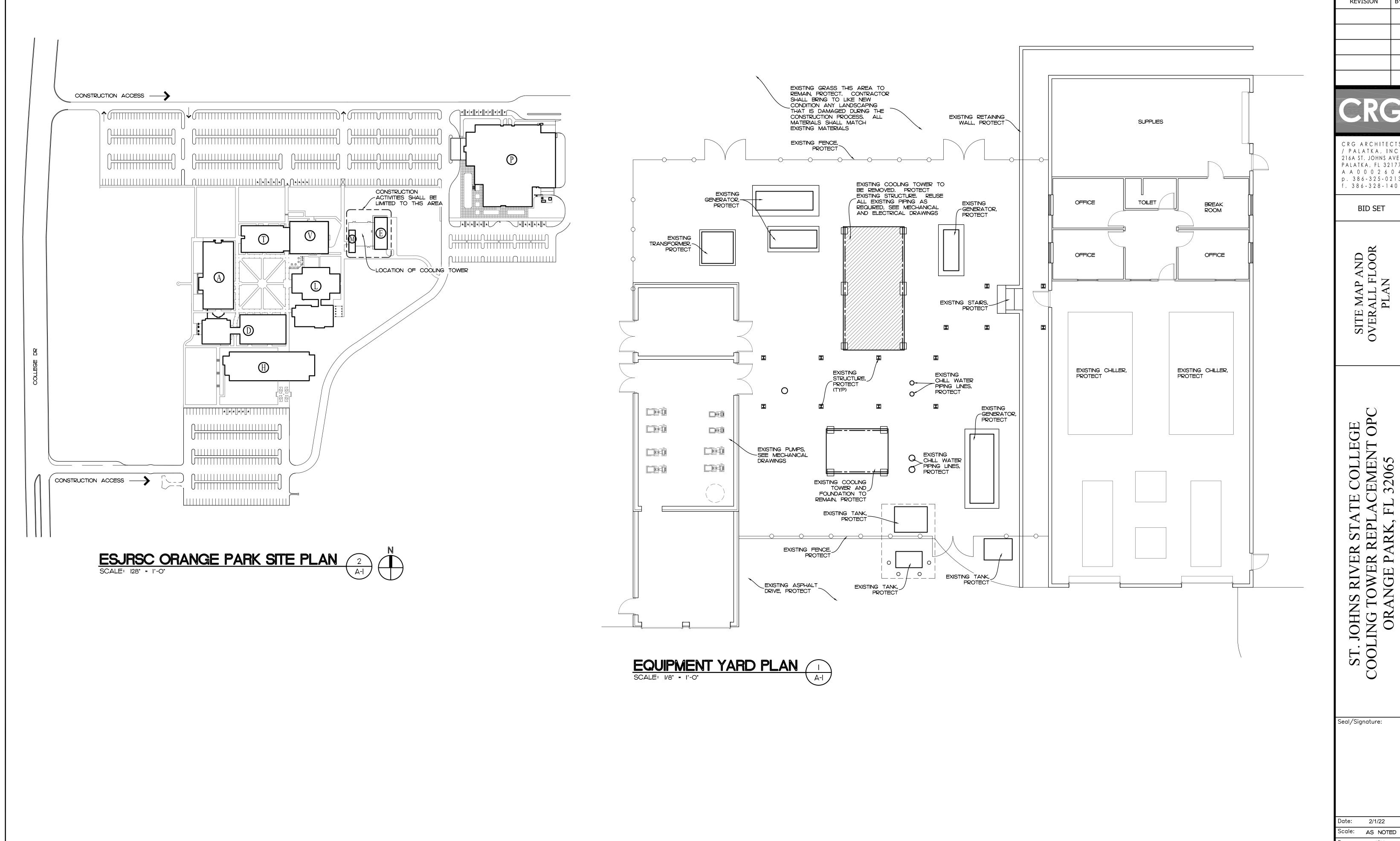
THE ADDITIONAL REVIEW. FOR COLOR SELECTION, THE CONTRACTOR IS TO SUBMIT ALL COLOR

RELATED PRODUCTS AT ONE TIME TO INSURE CONTINUITY IN THE OVERALL COLOR SCHEME USED.

GENERAL NOTES

GENERAL





CRG ARCHITECTS / PALATKA, INC.
216A ST. JOHNS AVE.
PALATKA, FL 32177 A A O O O 2 6 O 4 p. 386-325-0213 f. 386-328-1401

BID SET

ER STATE COLLEGE R REPLACEMENT OP PARK, FL 32065

AS NOTED Drawn: JCK OI5WO7A

A-1

2 Of 9 Sheets

Sheet:

BASIC MATERIALS SPACE SCORPTION STATEMENT OF THE PROPERTY O	### PROPERTY OF THE PROPERTY O		ELECTRICA	L LEGEND		G	ENERAL NOTES:								
Section of the control of the contro	Description of the property of						CODES, STANDARDS AND PRACTICES LISTED HEREIN, AND THEIR RESPECTIVE DATES ARE								
Section Comment Comm	Description in equations Description in the problem of the proble			SYMBOI	BRANCH CIRCUIT PANELBOARD, UNDER 250 VOLTS,		1. STATE OF FLORIDA.								
Part							3. UNDERWRITERS LABORATOR	RIES, INC. PUBLICATIONS							
Support Section 1997	STATEMENT STAT						 AMERICAN NATIONAL STAND NATIONAL ELECTRICAL CODI 	ARDS INSTITUTÈ (ANŚI). E - NFPA 70.							
Management	Section of the control of the contro	•	FOUR-WAY SWITCH	_=_			8. NATIONAL ELECTRICAL MAN	JFACTURER'S ASSOCIATION (NEMA).							
See 19 Section Control	Section of the control of the contro	S_{WP}			DDANICH CIDCUIT DANIELDOADD, OVED 250 VOLTS		10. 2020 FLORIDA BUILDING COL	DE.							
Security and the member recovering to the control of the control o	Section of the control of the contro	S_{WPL}													
Security of the property of th	SOURCE AND CONTROL OF THE CONTROL OF	S_L				2	REFER TO THE MECHANICAL FOR	R REI ATEN INFORMATION AND ADDITIONAL INSTALLATION							
Services of the control of the contr	See BOALT CONTRIBUTION OF THE CONTRIBUTION OF	S_{LV}	LOW VOLTAGE SWITCH FOR OVERRIDE ON		PHASE, NEUTRAL AND GROUND CONDUCTORS		REQUIREMENTS.								
Section Proceedings Process	Septiments of the control of the con	S_{F}	FAN SWITCH	11	GROUND ROD 3/4" x 20'		WITH WIRING AND CONNECTION								
Section 1997	## 2007 FEBRUARY (1997) ## 2007 FEBRUARY (19	S_M	MANUAL MOTOR STARTER WITH OVERLOAD HEATERS	O	, CONDUIT TURNING UP	4.	WHEN INCREASED CONDUCTOR								
BUSINESTEEL	DIT PROPERTY OF THE PROPERTY O	S_{MP}		_{DN}	CONDUIT TURNING DOWN			OUT THE LENGTH OF THE CIRCUIT, INCLUDING NEUTRAL AND							
ACCIDENT OF ARTHROPHICAL PROPERTY OF A CONTROL OF A CONTR	Control (Control (C	\rightleftharpoons			CONDUIT STUB										
Approximate Approximate	PARTITION OF THE PROPERTY OF T				CONDUIT CONTINUED										
ADDITIONAL CONTROL CON	### ADDITION OF THE PROPERTY O				DISCRETE CONTROL CABLES										
### CONTRICTORS AND THE PARTY OF THE PARTY O	And information and information of the control of t				ANALOG CONTROL CABLES										
Commence of the state of control of the state of the st	###			G	LIGHTNING PROTECTION CU CABLE GROUND LOOP		COPPER CONDUCTORS, PLUS A	MINIMUM OF (1) #12AWG GROUND WIRE UNLESS OTHERWISE							
## CREATION OF THE CONTROL OF THE C	THE ORIGINAL PROPERTY LITERAND PROPERTY IN CONTROL OF THE CONTROL														
THE PROPERTY OF THE PROPERTY O	FOR MARKET CLASSIFIED CONTENT		GFI RECEPTACLE. WP DENOTES UL LISTED AS WEATHERPROOF IN			10.	CONTRACTOR SHALL UPSIZE FE	EDER AND BRANCH CIRCUIT WIRE SIZE AS REQUIRED TO COMPENSA							
TO DEPER TENT ALL WITH CONTROL COURS WITH A DEPERS SEPT ALL WITH CONTROL COURS WITH A DEPERS SEPT ALL WITH CONTROL COURS WITH A DEPERS SEPT ALL WITH CONTROL COURS WITH A DEPERS SEPT ALL WITH CONTROL COURS WITH A DEPERS SEPT ALL WITH CONTROL COURS WITH CONTROL COURS AND A DEPERS OF THE SEPT ALL WITH CONTROL COURS WITH CONTROL COURS AND A DEPERS OF THE SEPT ALL WIT	TOTAL PLAN SAME PRODUCTION AND ADMINISTRATION TOTAL PRODUCTION T	=	GELRECEDTACLE MOLINTED ABOVE COLINTER				MEET FLORIDA BUILDING CODE F	REQUIREMENT OF: MAXIMUM BRANCH CIRCUIT VOLTAGE DROP OF 39							
HAND SECRETARY OF COLUMN CONTROL OF COLUMN CONTROL OF COLUMN COLU	DO FILE DESCRIPTION OF THE PROPERTY OF THE PRO														
SCAPED GROUND DEPOSITION OF DE	SELUTIONS OF REPORTS DEPOSITION OF REPORTS		TWO DUPLEX RECEPTACLES WITH COMMON COVER			-	CIRCUIT LENGTH 0 - 70'	_ UP SIZE FOR VOLTAGE DROP #12 AWG							
MOTE TO MARKS SHANCH, ANY DEATH REPRESENTS REPORT CONTROL TO THE REPORT OF THE REPORT OF THE PROPERTY OF THE P	MOTE 100 10		,												
### 1990	1	*	DUPLEX RECEPTACLE												
## SEQUE PRAYSE RESERVACE. BOTTON AS MOTEO © USHING COUTRE. THE CLOCK ↑ PROTOCELL MOUNTED ON FOOD FACIDO NORTH COMPANIES OF F	F SPECK FUNDED RECEIPED LESS FROM SERVICES STAND PROVIDE SERVICES SERVICES STAND PROVIDE SERVICES STAND PROVIDE SERVICES STAND PROVIDE SERVICES SERV		TICK MARKS SHOWN ON ANY DEVICE REPRESENTS RECEPTACLE CONNECTED TO THE EMERGENCY CIRCUIT				0' - 140' 141' - 220'	#12 AWG #10 AWG							
ESTIMATION DIRECTIONS IL GRANGE CHARGE CORRECT TRANSPORTED AND CONTROL TRANSP	ECI LIGHTM CONTROL THE CLOCK ID HICTORY, RECEIPT ON FOR FIGH DOES IN SHEET HIGH OF OFFICE ADDRESS OF SHEET AND FOR HIGH OFFICE OF SHEET ADDRESS OF SHEET ADDRE	•					351' AND ABOVE TO BE SUBMITT	ED BY EC AND APPROVED BY ENGINEER.							
PROVIDED AND SECRET SAFETY OF SAFETY	PRODUCEL MOUNTS OR ROLF ACRES WORTH RECURDER C UNITION BOX UNITION	€□	,			12.	PROVIDE HACR RATED CIRCUIT I	BREAKERS FOR ALL HVAC EQUIPMENT.							
GRUND EAR D. JUNCTION BOX WALL MOUNTED JUNCTION BOX WALL MOUNTED UNLESS OTHERWISE MOTOR DEAVUS PRODUCTIONS OTHERWISE MOTOR DEAVUS PRODUCTIONS WALRED MOTOR STAFFER OR CONTRACTOR JULY SANTIEL WARRANGE PROJUCTION, NUMBER DEATHOR OR CONTRACTOR JULY SANTIEL WARRANGE PROJUCTION, PAREL JULY WARRANGE PROJUCTION, PAREL JULY WARRANGE PROJUCTION, PAREL JULY WARRANGE PROJUCTION, PAREL WARRANGE PROJUCTION, PAREL JULY	GRUND EAR JUNCTION BOOK JUNCTION B		PHOTOCELL, MOUNTED ON ROOF FACING NORTH												
SUBSTANCE AND ACCOUNTS OF WALL MOUNTED SUBSTANCE AND ACCOUNTS OF	JUNIOR ON WALL MOUNTED SPE SURGE PROTECTION DEVICE STI SHART TOR BUTTON. FLISH MOUNTED LIVESS OF ENNINE NOTES HAW 3R FOR EXTERIOR CLOCATIONS MARKET MOTOR STARTER OR CONTACTOR SIZE SK NOTES WARRALE REQUIRECY PRICE MOTOR CONTECTION. MULBER DEVICES HORSEFOWER WARRALE REQUIRECY PRICE DEG DIEST DIGITAL CONTROL PRICE I TRANSFORMER ALIGNATIC TRANSFER SWITCH SARR MOUNTS DEGODEROOT STATCH SIZE AS NOTED NE DESCRIPTION NOTES TO STATCH SIZE AS NOTED NE DESCRIPTION NOTES SIZE FER MAUNTACTURES ARE PARTING. SARRA STATCHER REQUIRECY CONTROL SIZE FER MAUNTACTURE ARE POSSED SIZE FOR MAUNTACTURE REQUIRECY CONTROL SIZE FER MAUNTACTURE ARE POSSED SIZE FOR MAUNTACTURE REQUIRECY CONTROL SIZE FER MAUNTACTURE ARE POSSED SIZE FOR MAUNTACTURE REQUIRED SIZE FOR MAUNTACTURE RESOURCE SIZE FOR	GND	GROUND BAR				ELECTRICAL DISTRIBUTION SYST								
SPICE SURGE PROTECTION DEWCE ST SHAPT-TRIP BUTTON - FLUSH MOUNTED DILESS OTHERWISE NOTED NEED AND REPORT RETURNING CONTINUES OTHERWISE NOTED NEED AND REPORT RETURNING CONTINUES MAGNIFIC MOUNTED NEAR REPORT RETURNING CONTINUES STEEN KNOTED MOTOR CONNECTION, MARBER CENOTES HORSEPONER WARRIAL E FREQUENCY ORIVE DRESC TO DIGITAL CONTINUE PANEL TRANSFORMER ALTICINATIC TRANSFORMER MON-FUSED INSCONNECT SWITCH SIZE AS NOTED NE DISPOSITION OF SWITCH ARE BUSTOS SUPPLY PANEL FOR THE PROTESS SIZE FOR MAINLESS SIZE FOR MAINLEST SITES ARE PAITING OF SWITCH ARE BUSTOS SAP PAITING	SUBJECT CONTROL FLORING LOCATIONS MAGNETIC MOTOR STAFFER OF CONTACTOR SUBJECT CONTROL STAFFER OF CONTACTOR SUBJECT CONTROL STAFFER OF CONTACTOR MARGINE PROJUMICY DRIVE WHAT ALL PROJUMICY DRIVE THANSFORMER AUTOMATIC TRANSFER SMITCH MORA PROJUMICY DRIVE AUTOMATIC TRANSFER SMITCH MORA PROJUMICY DRIVE AUTOMATIC TRANSFER SMITCH MORA PROJUMIC SMITCH SUBJECT SMITCH SUBJECT SMITCH MORA PROJUMIC SMITCH SUBJECT SMITCH AUTOMATIC TRANSFER SMITCH MORA PROJUMIC SMITCH SUBJECT SMITCH SUBJECT SMITCH AUTOMATIC TRANSFER SMITCH MORA PROJUMIC SMITCH SUBJECT SMITCH SUBJECT SMITCH AUTOMATIC TRANSFER SMITCH MORA SMITCH SUBJECT SMITCH	\bigcirc	JUNCTION BOX			14.	SEAL ALL CONDUIT PENETRATIO	NS THAT PASS THROUGH EXTERIOR BUILDING WALLS.							
SI SHAMITED PUTTON FUSH WOUNTED LINE SS OTHERWISE NOTED MEAN 3R FOR EXTERIOR LOCATIONS MAGNETIC MOTION STARTER OR CONTACTOR SIZE SK NOTED WARRAGE FROUGHOY DRIVE TO DRECT DIGITAL CONTROL PANEL TRANSFORMER AUTOMATIC TRANSFER SMITCH MAY HOW FOR SMITCH SIZE AS NOTED NO PROFIT DIGITAL CONTROL PANEL TRANSFORMER AUTOMATIC TRANSFER SMITCH NO HAUSED DISCONMECT SWITCH, SIZE AS NOTED NO PROFIT SHOW FUSED AUTOMATIC TRANSFER SMITCH ARE DENOTES NOW FUSED FOR POLICE TO SMITCH ARE DENOTES NOW FUSED TO POLICE PO POLICE TO COMMINISTED TO SMITCH ARE DENOTES SMITCH ARE DENOTES NOW FUSED SIZE AS OPPOLES PO POLICE TO COMMINISTED THE RECOMMENDATIONS TO COMMINISTED THE RECOMMENDATIONS DO SR JORGE UNILESS OTHERWISS NOTED ENCLOSURE MEMA 99 TIMO.	SHLOTTIPP BUTTON. FLESH MOUNTED UNLESS OTHERWISE HOTED MEAN SAF FOR EXTERIOR CONTACTOR SEE AS NOTED MAGNETIC MOTOR SAFATER FOR CONTACTOR SEE AS NOTED WORKABLE FREQUENCY DRIVE DIRECT DIGITAL CONTROL PANIE. THANKS FOR LEE AUTOMATIC TRANSFER SWITCH AUTOMATIC TRANSFER SWITCH AUTOMATIC TRANSFER SWITCH SUMMARY OF DENOTES NOW FLESS OF SAFATOR SEE AS NOTED NO DENOTES NOW FLESS OF SAFATOR SEE AS NOTED NO DENOTES NOW FLESS OF SAFATOR SEE AS NOTED AS DESCRIPTION FLESS OF PANISO OF SWITCH AS DESCRIPTION FLESS OF PANISO OF SWITC		JUNCTION BOX- WALL MOUNTED												
OTHERWISE NOTED NEWS 3R FOR EXTERIOR LOCATIONS MAGNETE MOTOR STATUTER OR CONTACTOR SIZE AS NOTED MOTOR CONNECTION, NUMBER DEVOTES HORSEPOWER WE VARIABLE FREQUENCY DRIVE DOE DRECT DIGITAL CONTROL PANEL. T TRANSFORMER AUTOMATIC TRANSFER SWITCH NO PHISED DISCONNECT SWITCH, SIZE AS NOTED NE DEMOTES NOR-FUSED NE DEMOTES NOR-FUSED AND PHISED DISCONNECT SWITCH, SIZE AS NOTED NE DEMOTES NOR-FUSED ADDITIONAL SIZE OF POLES # OF POLES TO POLES COMBINATION MAGNETIC MOTOR STATER, SIZE & # OF POLES 3 POLE UNILESS OTHERWISE NOTED ENCLOSURE NEMA RATING.	OTHERWISE MODES HAVE OR FOR EXTERIOR LOCATIONS MAGNETIC MOTOR STAFFER OR CONTACTOR SIZE AS NOTED NOTICE CONNECTION, MURIBER DENOTES HORSEPONER VARRALE FREQUENCY DRIVE DOSC ORSECT OWITAL CONTROL PANEL TRANSFORMER AUTOMATIC TRANSFER SWITCH NON-FUSED DISCONSECT SWITCH SIZE AS NOTED NO DENOTES MON-FUSED NOTICE SWITCH SIZE AS NOTED NO DENOTES MON-FUSED NOTICE SWITCH SIZE AS NOTED NO DENOTES MON-FUSED ARE DENOTES AND FUSED OR SWITCH ARE DENOTES OF THE SWITCH AND FUSED OR SWITCH ARE DENOTES AND FUSED OR SWITCH AR	SPD	SURGE PROTECTION DEVICE												
SIZE AS NOTED SIZE AS NOTED MOTOR CONNECTION, NUMBER DENOTES HORSEPOWER INFO WARRABLE FREQUENCY DRIVE DOGS DIRECT DIGITAL CONTROL PAVIEL THANASFORMER AUTOMATIC TRANSFER SWITCH JOAN NON-PUSED DISCONNECT SWITCH, SIZE AS NOTED No DENOTES NOR-FUSED PUSED DISCONNECT SWITCH, SIZE AS NOTED AR DENOTES MOR PLES SIZE - DENOTES SIZE PER MANUFACTURER RECOMMENDATIONS. PUSED DISCONNECT SWITCH SIZE BERD MANUFACTURER RECOMMENDATIONS. COMBINATION MAGNETIC MOTOR STARTER, SIZE 8 # OF POLES 3 POLE UNLESS OTHERWISE NOTED ENCLOSURE NEWS NATION.	SIZE AS NOTED MOTOR CONNECTION, MUNISER DENOTES HORSEPOWER VED WARRABLE FREQUENCY DRIVE DED DIRECT DIGITAL CONTROL PANEL T TRANSFORMER AUTOMATIC TRANSFER SHITCH L 3AAR NON-RUSED DISCONNECT SMITCH, SIZE AS NOTED NF DENOTES KOM-RUSED L 3ABR PUSED DISCONNECT AR DENOTES KOM-RUSED L 3ABR FUSED DISCONNECT AR DENOTES KOM-RUSED AF DENOTES AND PRAINS OF SMITCH AR DENOTES AND PLASS SIZE DENOTES SIZE PER MANUFACTURES RECOMMENDATIONS. 4 OF POLES 3DEL DISCONNECT ARD DISCONNECT	ST													
VARIABLE FREQUENCY DRIVE	VRIABLE FREQUENCY DRIVE IDDC IDRCT DIGITAL CONTROL PANEL TRANSFORMER AUTOMATIC TRANSFER SWITCH 3AR NON-FUSED DISCONNECT SWITCH, SIZE AS NOTED NF DENOTES NON-FUSED NF DENOTES NON-FUSE DISCONNECT AR DENOTES MOR PUSE SIZE; TORONTES SIZE PER MANUFACTURER RECOMMENDATIONS. # OF POLES 3R COMBINATION MAGNETIC MOTOR STARTER SIZE & # OF POLES 3 POLE UNLESS OTHERWISE NOTED ENCLOSURE NEMA RATING.														
DDG DIRECT DIGITAL CONTROL PANIEL T TRANSFORMER AUTOMATIC TRANSFER SWITCH AUTOMATIC TRANSFER SWITCH Non-Fused Disconnect switch, size as noted Non-Fused Disconnect switch, size as noted Non-Fused Disconnect AR Denotes Non-Fused Disconnect AR Denotes Non-Fused Disconnect AR Denotes May Rating of Switch AR Denotes	DDG DIRECT DIGITAL CONTROL PANEL TRANSFORMER AUTOMATIC TRANSFER SWITCH L ONE NON-FUSED DISCONNECT SWITCH, SIZE AS NOTED NF DENOTES NON-FUSED NF DENOTES NON-FUSE SIZE TO ENOTES SIZE PER MANUFACTURER RECOMMENDATIONS. # OF POLES O ONE NATION MAGNETIC MOTOR STARTER, SIZE & # OF POLES SIZE DENOTED NEMA STARTER SIZE NEMA STARTER SIZE	5													
T TRANSFORMER AUTOMATIC TRANSFER SWITCH AUTOMATIC TRANSFER SWITCH NON-FUSED DISCONNECT SWITCH, SIZE AS NOTED NF DENOTES NON-FUSED FUSED DISCONNECT ARD DENOTES AND PRITING OF SWITCH AF DENOTES AND PRITING OF SWITCH AF DENOTES AND PUSE SIZE, 'DENOTES SIZE PER MANUFACTURER RECOMMENDATIONS. # OF POLES COMBINATION IMAGNETIC MOTOR STARTER, SIZE & # OF POLES 3 POLE UNLESS OTHERWISE NOTED ENCLOSURE NEMA RATING.	TRANSFORMER AUTOMATIC TRANSFER SWITCH JOAR NON-FUSED DISCONNECT SWITCH, SIZE AS NOTED NF OPENOTES NON-FUSED NON-F	VFD	VARIABLE FREQUENCY DRIVE												
AUTOMATIC TRANSFER SWITCH AUTOMATIC TRANSFER SWITCH NF DENOTES NON-FUSED DISCONNECT NF DENOTES NON-FUSED FUSED DISCONNECT AP DENOTES AND FUSED AP DENOTES AND PATING OF SWITCH AF DENOTES AND PATING OF SWITCH AF DENOTES AND PATING STATES SIZE PER MANUFACTURER RECOMMENDATIONS. THE OF POLES COMBINATION MAGNETIC MOTOR STARTER, SIZE & # OF POLES 3 POLE UNLESS OTHERWISE NOTED ENCLOSURE NEMA RATING.	AUTOMATIC TRANSFER SWITCH 30AR NON-FUSED DISCONNECT SWITCH, SIZE AS NOTED NO FORNOTES NON-FUSED L 30AR FUSED DISCONNECT ARD DISCONNECT SUZE PER MANUFACTURER RECOMMENDATIONS. # OF POLES ONBINATION MAGNETIC MOTOR STARTER, SIZE 8 # OF POLES 3 POLIC UNLESS OTHERWISE NOTED ENCLOSURE NEMA RATING. NEMA STARTER SIZE	DDC	DIRECT DIGITAL CONTROL PANEL												
NON-FUSED DISCONNECT SWITCH, SIZE AS NOTED NF DENOTES NON-FUSED JOAR NF USED DISCONNECT AR DENOTES AMP RATING OF SWITCH AF DENOTES AMP FUSE SIZE. DENOTES SIZE PER MANUFACTURER RECOMMENDATIONS. # OF POLES COMBINATION MAGNETIC MOTOR STARTER, SIZE & # OF POLES 3 POLE UNLESS OTHERWISE NOTED ENCLOSURE NEMA RATING.	NON-FUSED DISCONNECT SWITCH, SIZE AS NOTED NF DENOTES NON-FUSED 1 30AR PUSED DISCONNECT AR DENOTES AMP PATING OF SWITCH AF DENOTES AMP PUSE SIZE, TOENOTES SIZE PER MANUFACTURER RECOMMENDATIONS. # OF POLES 2 30 3 R COMBINATION MAGNETIC MOTOR STARTER, SIZE & # OF POLES 3 POLE UNLESS OTHERWISE NOTED ENCLOSURE NEMA RATING. NEMA STARTER SIZE	T	TRANSFORMER												
NF NF DENOTES NON-FUSED 30AR	NF DENOTES NON-FUSED 30AR FUSED DISCONNECT AR DENOTES AMP FAITING OF SWITCH AF DENOTES AMP FUSE SIZE, 'DENOTES SIZE PER MANUFACTURER RECOMMENDATIONS. # OF POLES COMBINATION MAGNETIC MOTOR STARTER, SIZE & # OF POLES 3 POLE UNLESS OTHERWISE NOTED ENCLOSURE NEMA RATING. NEMA STARTER SIZE		AUTOMATIC TRANSFER SWITCH												
AR DENOTES AMP RATING OF SWITCH AF DENOTES AMP FUSE SIZE, * DENOTES SIZE PER MANUFACTURER RECOMMENDATIONS. ZE # OF POLES COMBINATION MAGNETIC MOTOR STARTER, SIZE & # OF POLES 3 POLE UNLESS OTHERWISE NOTED ENCLOSURE NEMA RATING.	AR DENOTES AMP RATING OF SWITCH AF DENOTES SIZE, DENOTES SIZE PER MANUFACTURER RECOMMENDATIONS. # OF POLES COMBINATION MAGNETIC MOTOR STARTER, SIZE & # OF POLES 3 POLE UNLESS OTHERWISE NOTED ENCLOSURE NEMA RATING. NEMA STARTER SIZE														
COMBINATION MAGNETIC MOTOR STARTER, SIZE & # OF POLES 3 POLE UNLESS OTHERWISE NOTED ENCLOSURE NEMA RATING.	30/3 3R COMBINATION MAGNETIC MOTOR STARTER, SIZE & # OF POLES 3 POLE UNLESS OTHERWISE NOTED ENCLOSURE NEMA RATING. NEMA STARTER SIZE	20AF	AR DENOTES AMP RATING OF SWITCH AF DENOTES AMP FUSE SIZE, * DENOTES SIZE PER MANUFACTURER RECOMMENDATIONS.												
ENCLOSURE NEMA RATING.	ENCLOSURE NEMA RATING. NEMA STARTER SIZE	\ /	COMBINATION MAGNETIC MOTOR STARTER, SIZE & # OF POLES												
NEWIA JAKIER SIZE			ENCLOSURE NEMA RATING.												
	NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT.		── INEMA STAKTEK SIZE												



www.tlc-engineers.com

COA 15

© Copyright 2022 TLC Engineering Solutions, Inc. TLC Project No.: 521262 THINK. LISTEN. CREATE.

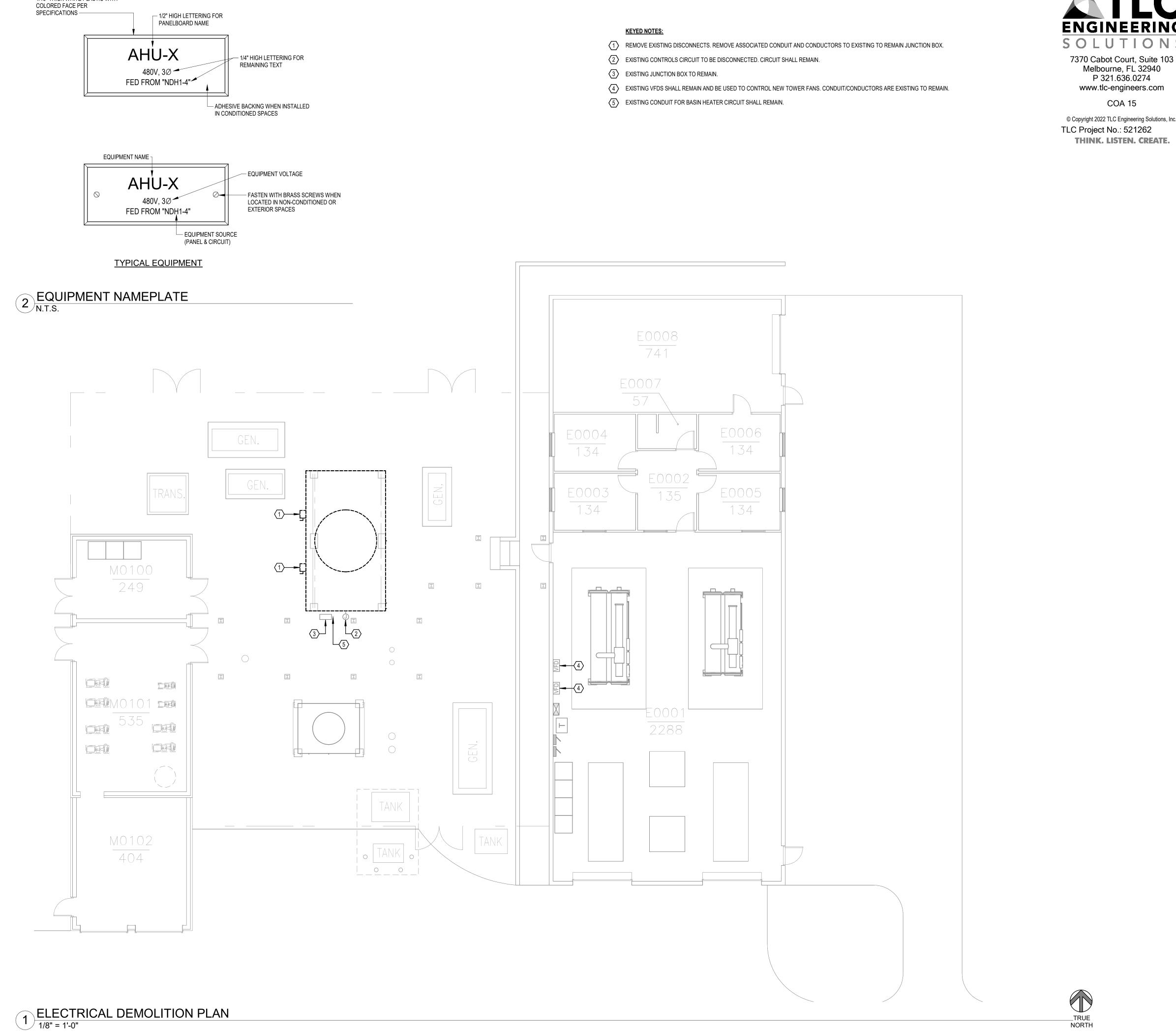
REVISION SOLUTIONS® 7370 Cabot Court, Suite 103 Melbourne, FL 32940 P 321.636.0274

CRG ARCHITECTS
/ PALATKA, INC.
216A ST. JOHNS AVE.
PALATKA, FL 32177
AA0002604
p. 386-325-0213
f. 386-328-1401

ST. JOHNS RIVER STATE COLLEGE COOLING TOWER REPLACEMENT OPC ORANGE PARK, FL 32065

Seal/Signature:

AMH 🖁 015W07A



1/16" THICK WHITE PLASTIC WITH

REVISION **ENGINEERING** SOLUTIONS® 7370 Cabot Court, Suite 103 Melbourne, FL 32940 P 321.636.0274

COA 15

CRG ARCHITECTS / PALATKA, INC. 216A ST. JOHNS AVE. PALATKA, FL 32177 AA0002604 p. 386-325-0213 f. 386-328-1401

COLLEGE EMENT OP(ST. JOHNS RIVER STATE COOLING TOWER REPLACIONANGE PARK, FL 32065

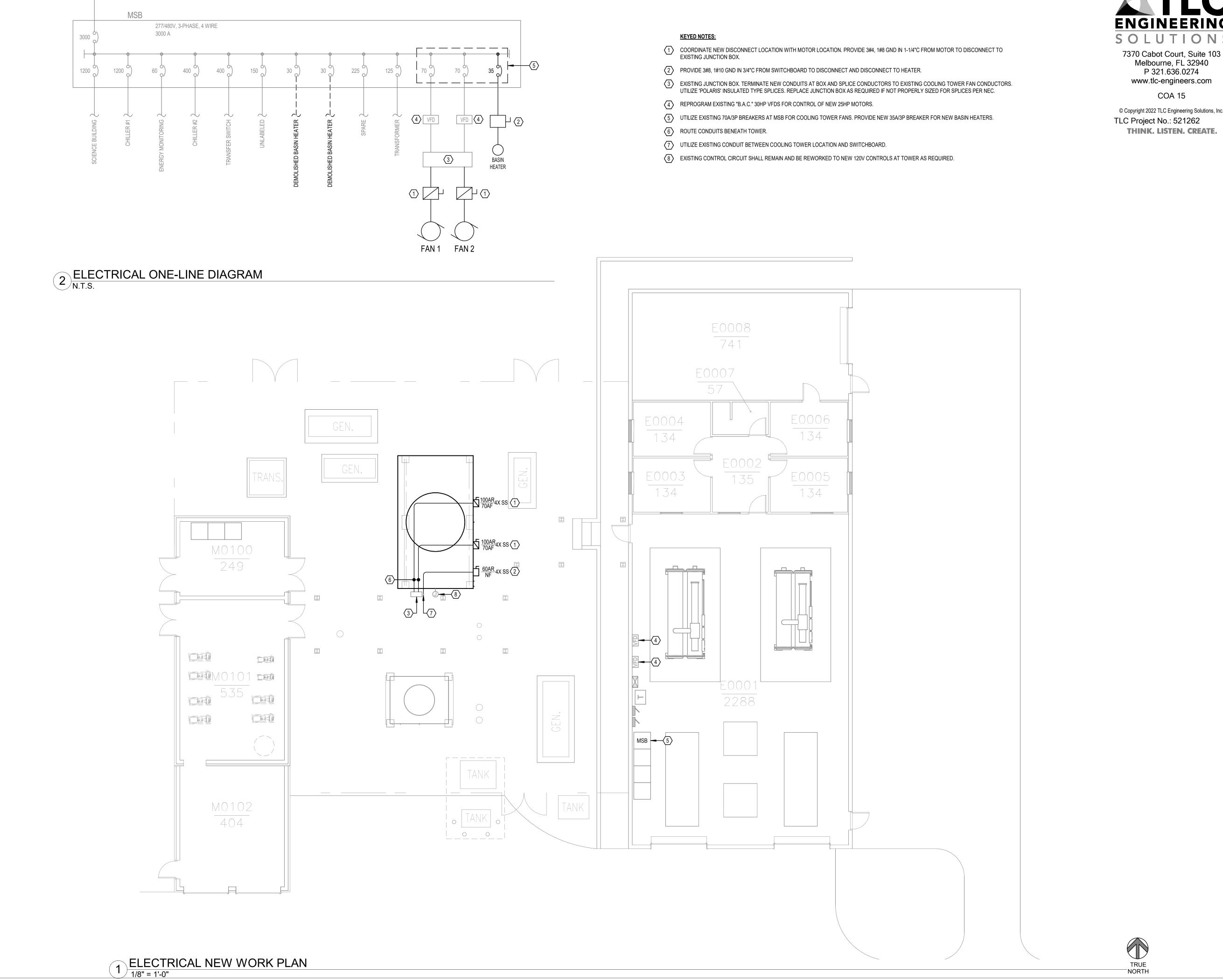
eal/Signature:

2/1/22 日

As indicated AMH 015W07A

E100

4 Of 9 Shee



REVISION **ENGINEERING** SOLUTIONS® 7370 Cabot Court, Suite 103 Melbourne, FL 32940

CRG ARCHITECTS / PALATKA, INC. 216A ST. JOHNS AVE. PALATKA, FL 32177 AA0002604

p. 386-325-0213 f. 386-328-1401

LECTRICAL NEW WORK PLAN

COLLEGE EMENT OP(ST. JOHNS RIVER STATE COOLING TOWER REPLACI

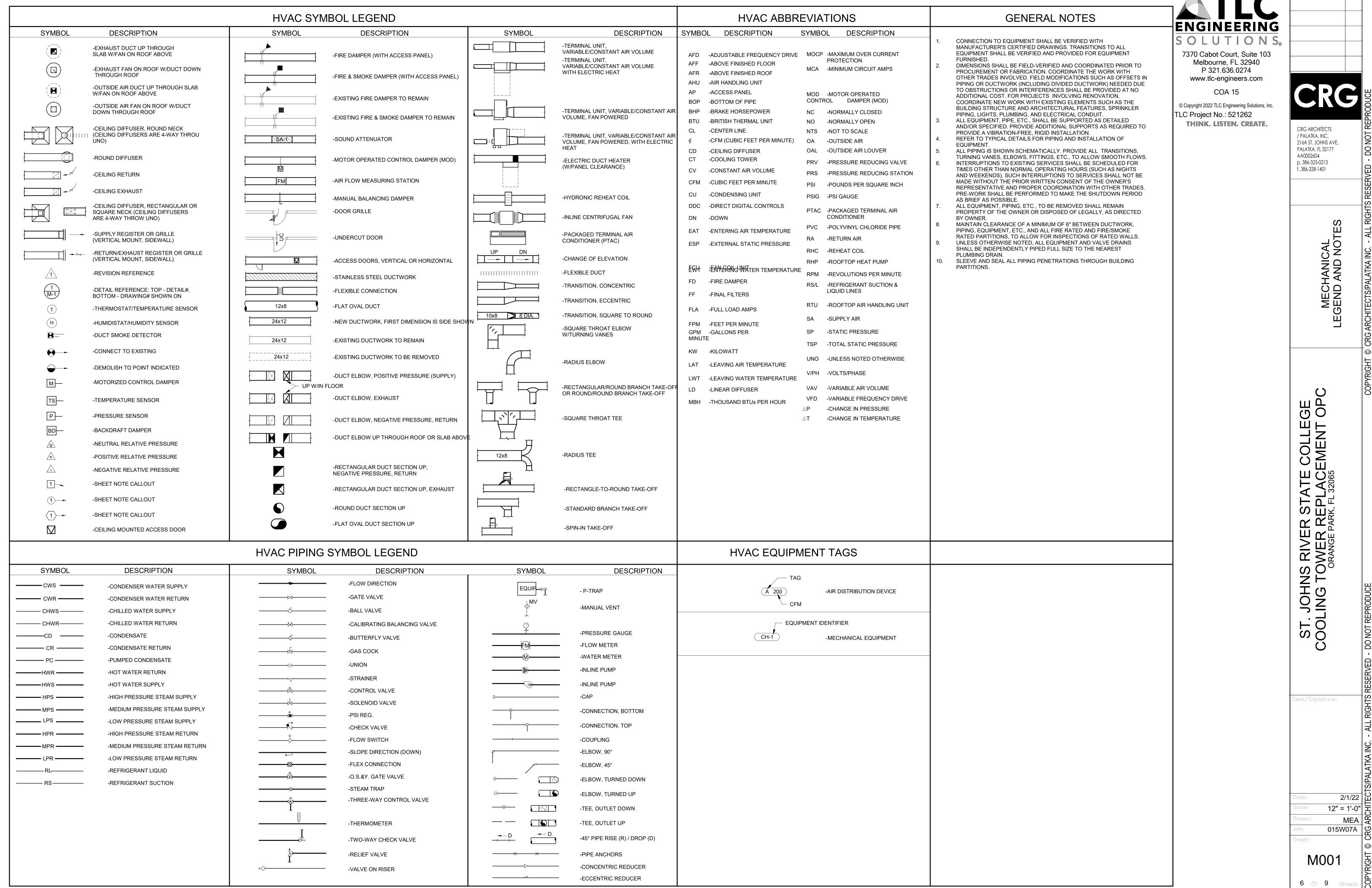
eal/Signature:

2/1/22 日

As indicated AMH 015W07A

E200

5 Of **9** Shee



REVISION

7370 Cabot Court, Suite 103 Melbourne, FL 32940 P 321.636.0274 www.tlc-engineers.com

COA 15

© Copyright 2022 TLC Engineering Solutions, Inc. TLC Project No.: 521262 THINK. LISTEN. CREATE.

REVISION

CRG ARCHITECTS / PALATKA, INC. 216A ST. JOHNS AVE. PALATKA, FL 32177 AA0002604 p. 386-325-0213 f. 386-328-1401

MECHANICAL DEMOLITION PLAN

COLLEGE EMENT OPC

eal/Signature:

1/8" = 1'-0" | 토 015W07A

M100

1 MECHANICAL DEMOLITION PLAN 1/8" = 1'-0"

(1) EXISTING 700 TON COOLING TOWER TO BE DEMOLISHED. ALL EXISTING PIPING, CONTROLS WIRING, AND OTHER APPURTENANCES TO BE RETAINED AND PROTECTED FOR REUSE.

(2) DEMOLISH EXISTING CONDENSER WATER PIPING BACK TO ISOLATION VALVE AS REQUIRED FOR DEMOLITION OF COOLING TOWER. PROTECT VALVE AND PREPARE FOR INSTALLATION OF NEW PIPING TO CONNECT TO NEW TOWER.

(3) POINT OF MAKE-UP WATER SYSTEM TO EXISTING TOWER. RELOCATE CONNECTION POINT TO NEW CONNECTION POINT AS SHOWN ON M-200. RETAIN ALL EXISTING COMPONENTS FOR REUSE AS FEASIBLE.

4 EXISTING STRUCTURAL SUPPORTS TO BE RETAINED. NEW SUPPORT STEEL SHALL BE PROVIDED AS NECESSARY TO ACCOMODATE NEW TOWER FOOTPRINT.

REVISION

CRG ARCHITECTS / PALATKA, INC. 216A ST. JOHNS AVE. PALATKA, FL 32177 AA0002604 p. 386-325-0213

MECHANICAL NEW WORK PLAN

f. 386-328-1401

7370 Cabot Court, Suite 103 Melbourne, FL 32940 P 321.636.0274 www.tlc-engineers.com

COA 15

© Copyright 2022 TLC Engineering Solutions, Inc. TLC Project No.: 521262 THINK. LISTEN. CREATE.

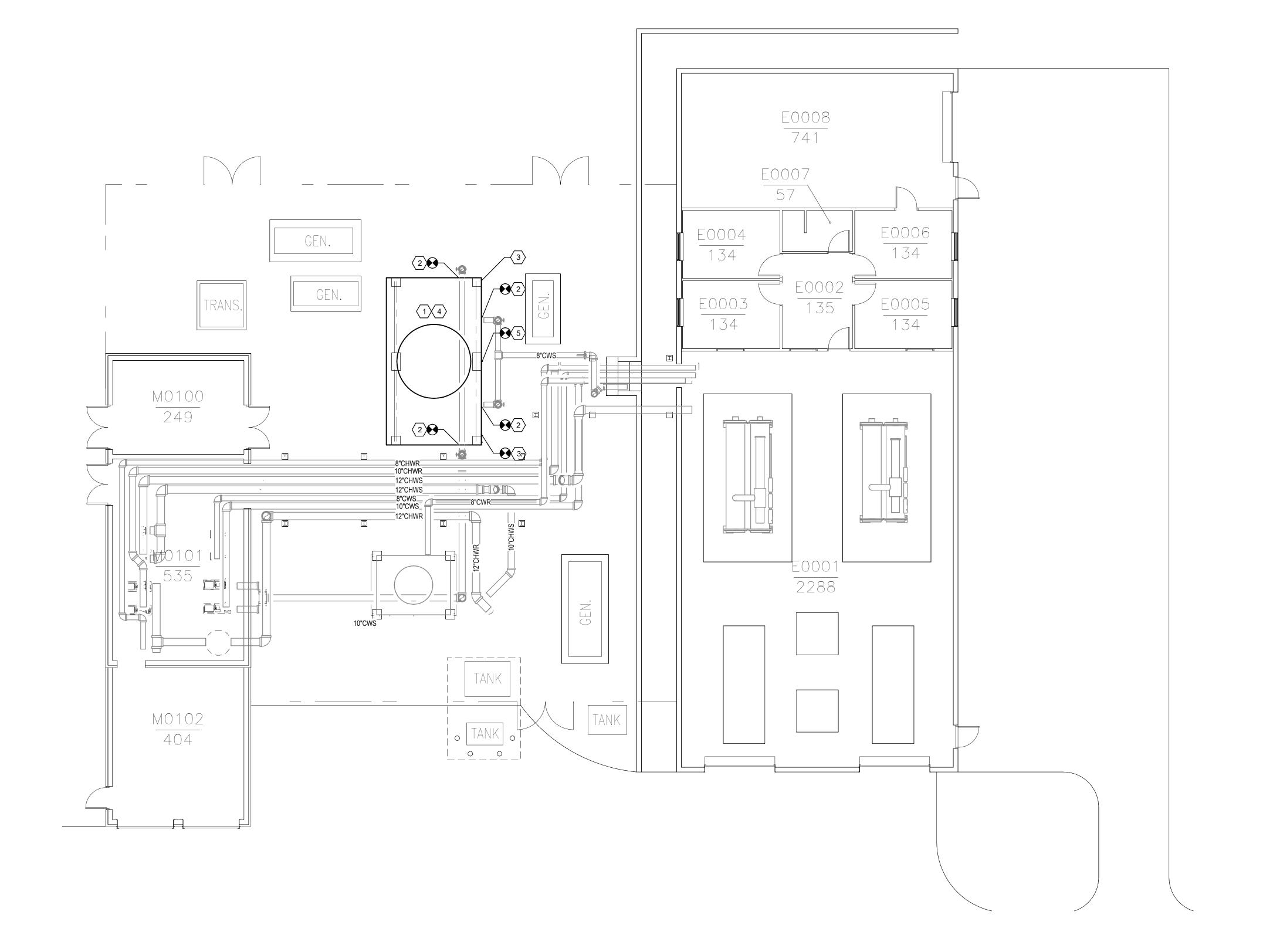


COLLEGE EMENT OPC

eal/Signature:

1/8" = 1'-0" 글 015W07A

M200



1 MECHANICAL NEW WORK PLAN 1/8" = 1'-0"

1 PROVIDE NEW 700 TON COOLING TOWER IN PLACE OF EXISTING UNIT. ALL EXISTING PIPING, CONTROLS WIRING, AND OTHER APPURTENANCES TO BE RETAINED AND PROTECTED FOR REUSE.

 $\langle 2 \rangle$ PROVIDE NEW CONDENSER WATER PIPING BACK TO ISOLATION VALVE AS REQUIRED FOR CONNECTION OF NEW COOLING TOWER.

3 POINT OF MAKE-UP WATER SYSTEM TO EXISTING TOWER. CONNECT EXISTING SYSTEM INTO NEW TOWER AS PER MANUFACTURER REQUIREMENTS.

4 EXISTING COOLING TOWER IS SUPPORTED BY STRUCTURAL STEEL ON CONCRETE COLUMNS. EXISTING STRUCTURAL SUPPORTS TO BE RETAINED. COORDINATE ATTTACHMENT WITH MANUFACTURER'S INSTRUCTIONS.

5 NEW POINT OF MAKE-UP WATER SYSTEM TO NEW TOWER. RELOCATE ALL COMPONENTS OF SYSTEM TO NEW LOCATION.

	COOLING TOWER																						
		CONDENSER WATER FAN COOLING TOWN										OWER	SUMMER		ELECTRICAL								
				REJECTION						DRIVE		MOTOR				AMBIENT	UNIT						
MARK	MANUFACTURER	MODEL NO.	TYPE	CAP	FLOW	EWT LV	/T PD	QTY	TYPE	TYPE	QTY	POWER	VFD	APPROACH	RANGE	WBT	WEIGHT	FLA	MCA	MOCP	VOLTS	PH	REMARKS
CT-1	EVAPCO	AT 212-3L24	INDUCED DRAFT	700.0 ton	2100 GPM	95 °F 85	°F 2.60 psi	2	SUPER LOW SOUND	BELT	2	25.0 hp	Yes	5°F	10 °F	80 °F	30180.00 lbf	60 A	0 A	0 A	480 V	3	CT-1 IS A REPLACEMENT FOR THE EXISTING 700 TON COOLING TOWER
DCT1	EXISTING	EXISTING	INDUCED DRAFT	700.0 ton	2100 GPM	95 °F 85	°F 0.00 psi	2	STANDARD		2	0.0 hp	Yes	5°F	10 °F	80 °F	0.00 lbf	0 A	0 A	0 A	0 V	0	TO BE DEMOLISHED

REVISION

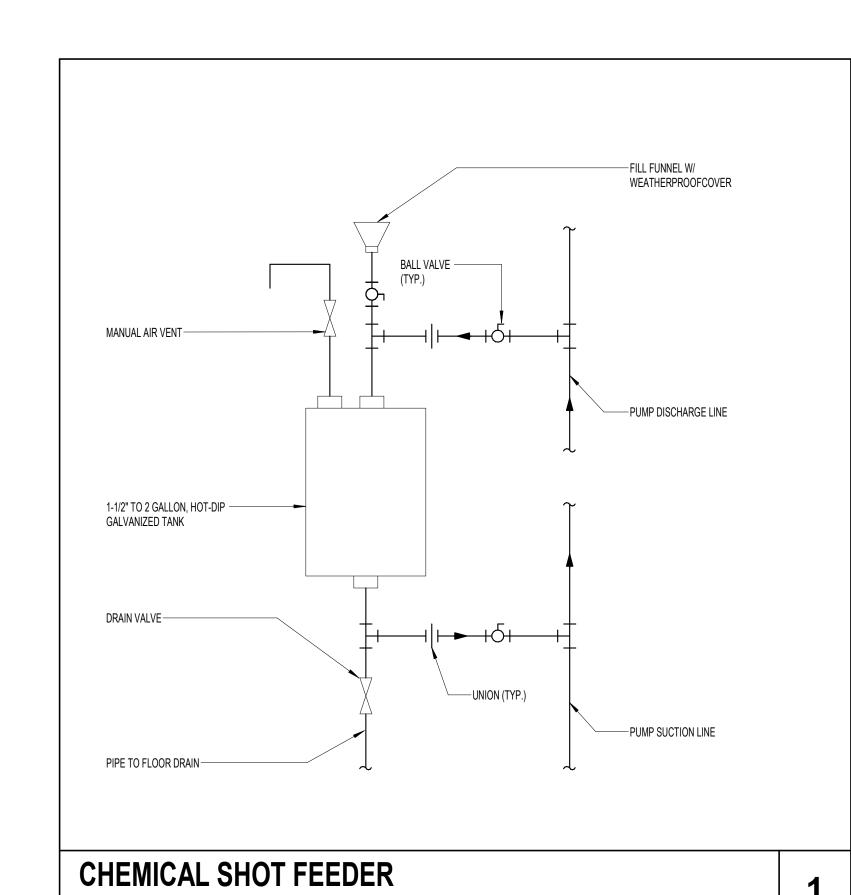
© Copyright 2022 TLC Engineering Solutions, Inc. TLC Project No.: 521262 THINK. LISTEN. CREATE.

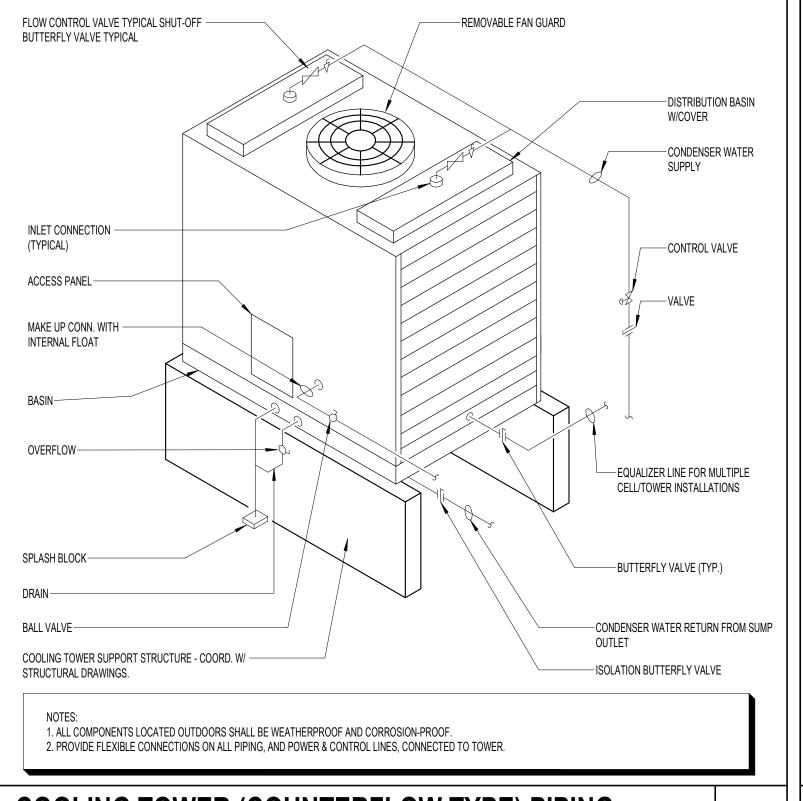
1. DCT1 IS EXISTING 700 TON COOLING TOWER TO BE DEMOLISHED.

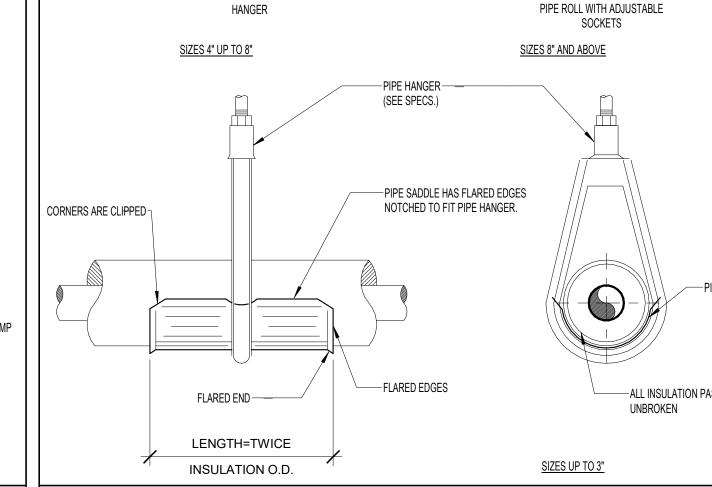
2. CT-1 IS NEW 700 TON COOLING TOWER TO REPLACE DCT1. 3. EXISTING CHILLED WATER AND CONDENSER WATER PUMPS TO BE RE-USED.

. INTEGRATE NEW 700 TON COOLING TOWER CT-1 INTO EXISTING BUILDING CONTROLS SYSTEM. REVIEW EXISTING CONTROL DEVICES FOR SUITABILITY FOR REUSE. REPLACE AS REQUIRED TO INTEGRATE. ALL EXISTING PIPING TO BE REUSED. PROVIDE NEW PIPE AS REQUIRED TO CONNECTION EXISTING SYSTEMS INCLUDING CONDENSER WATER AND MAKE UP WATER TO NEW COOLING TOWER.

6. COORDINATE FOOTPRINT OF TOWER WITH EXISTING STRUCTURAL SUPPORTS. 7. PROVIDE WITH STAINLESS STEEL FAN SHAFT. STAINLESS STEEL 316 BASIN, AND 304 UPPER.







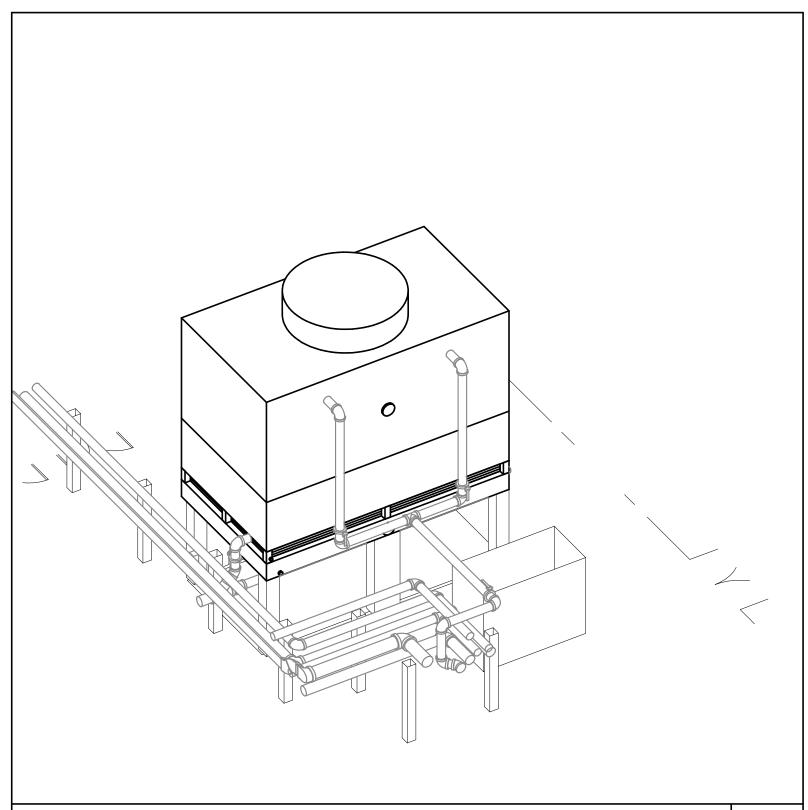
ADJUSTABLE SWIVEL ROLLER

INSULATED PIPE HANGER

7

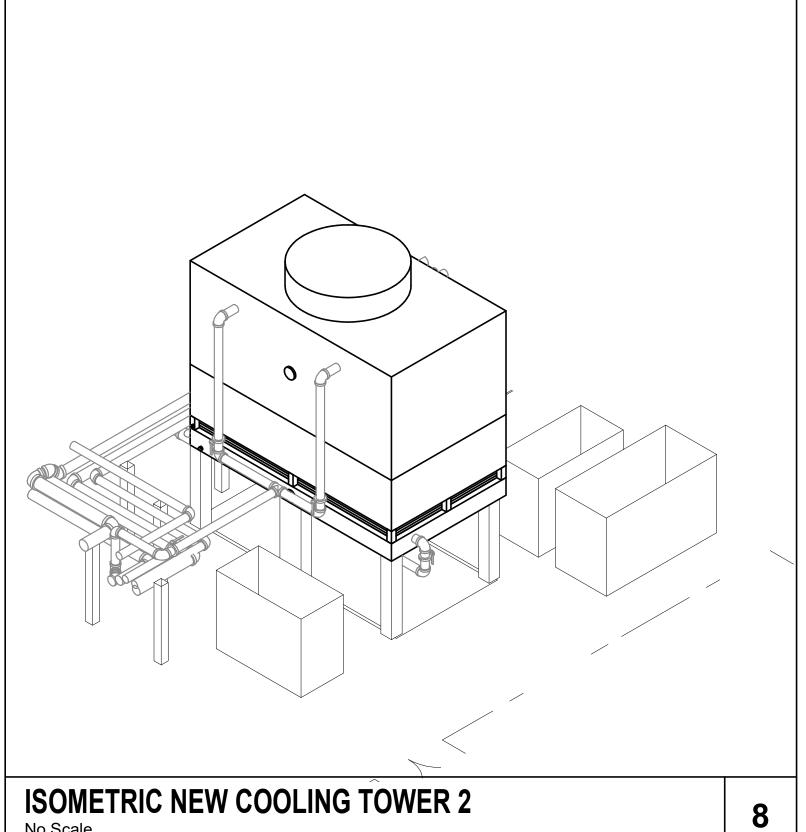
-SEE SPECS FOR ROD -

COOLING TOWER (COUNTERFLOW TYPE) PIPING
No Scale 2



ISOMETRIC NEW COOLING TOWER

No Scale



ENGINEERING SOLUTIONS® 7370 Cabot Court, Suite 103 Melbourne, FL 32940 P 321.636.0274 www.tlc-engineers.com COA 15 CRG ARCHITECTS / PALATKA, INC. 216A ST. JOHNS AVE. PALATKA, FL 32177 AA0002604 p. 386-325-0213 f. 386-328-1401 ---INSULATION MECHANICAL SCHEDULES — PIPE SADDLE (TYP.) ——ALL INSULATION PASSES THRU HANGER ST. JOHNS RIVER STATE COOLING TOWER REPLACI

M300

2/1/22 台

MEA

015W07A