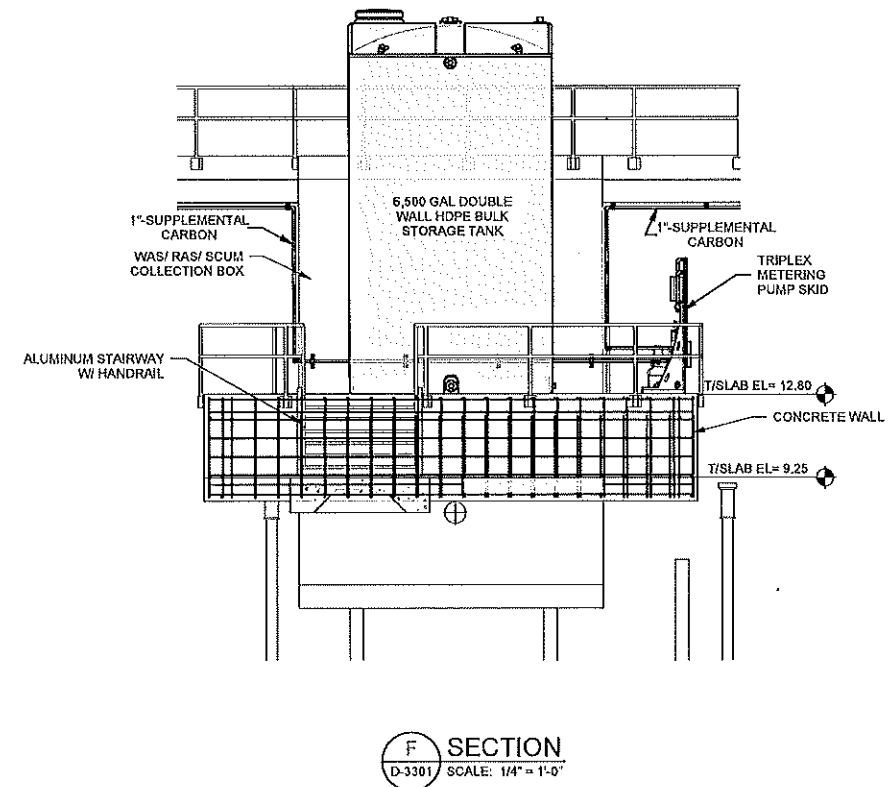
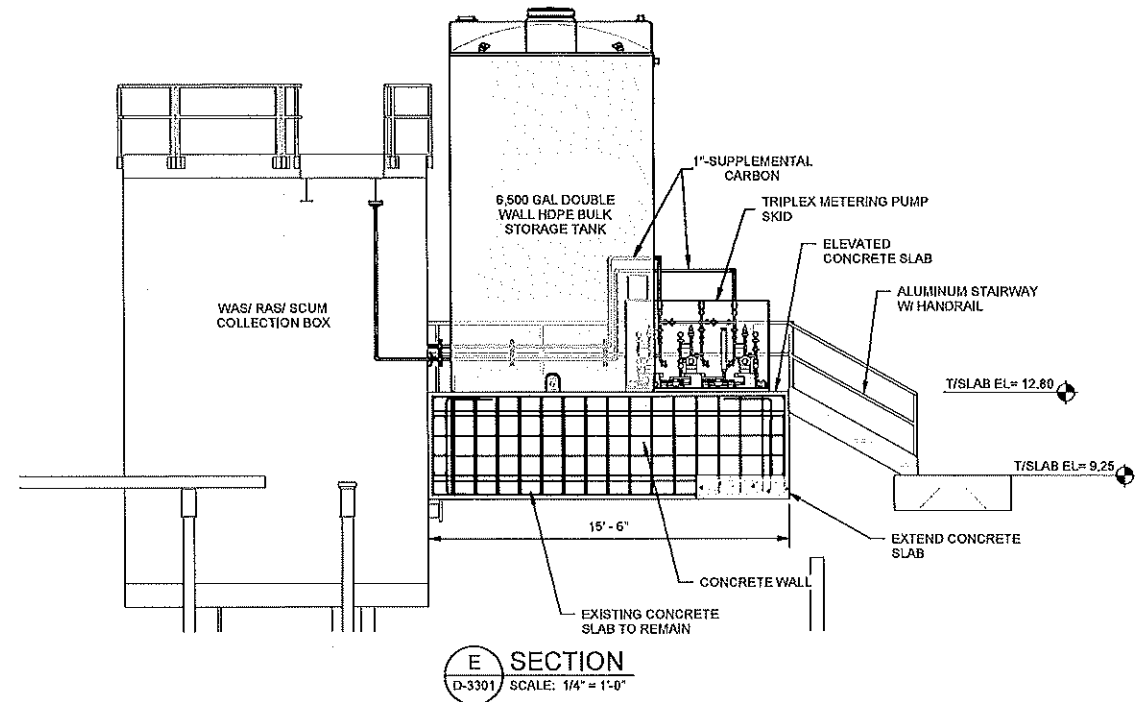
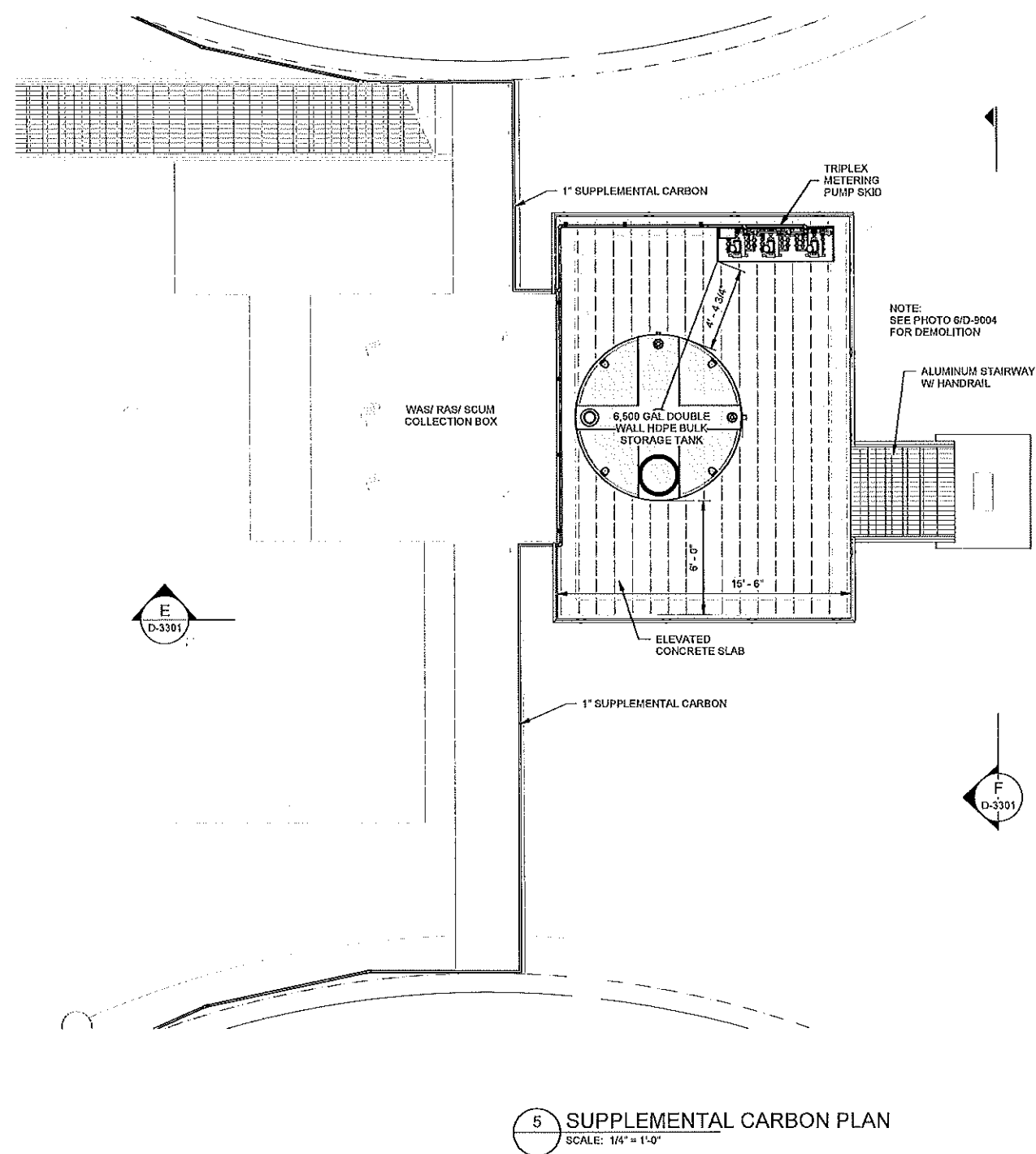


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ENGINEERING BUSINESS NO. 2439

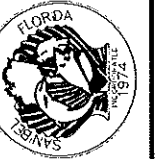
TEL: (239) 390-1457 **FAX:** (239) 390-1789

www.tetratech.com

10800 CHEVROLET WAY, SUITE 300
ESTERO, FL 33928

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**CITY OF
SANIBEL**
800 Dunlap Road
Sanibel, Florida 33955

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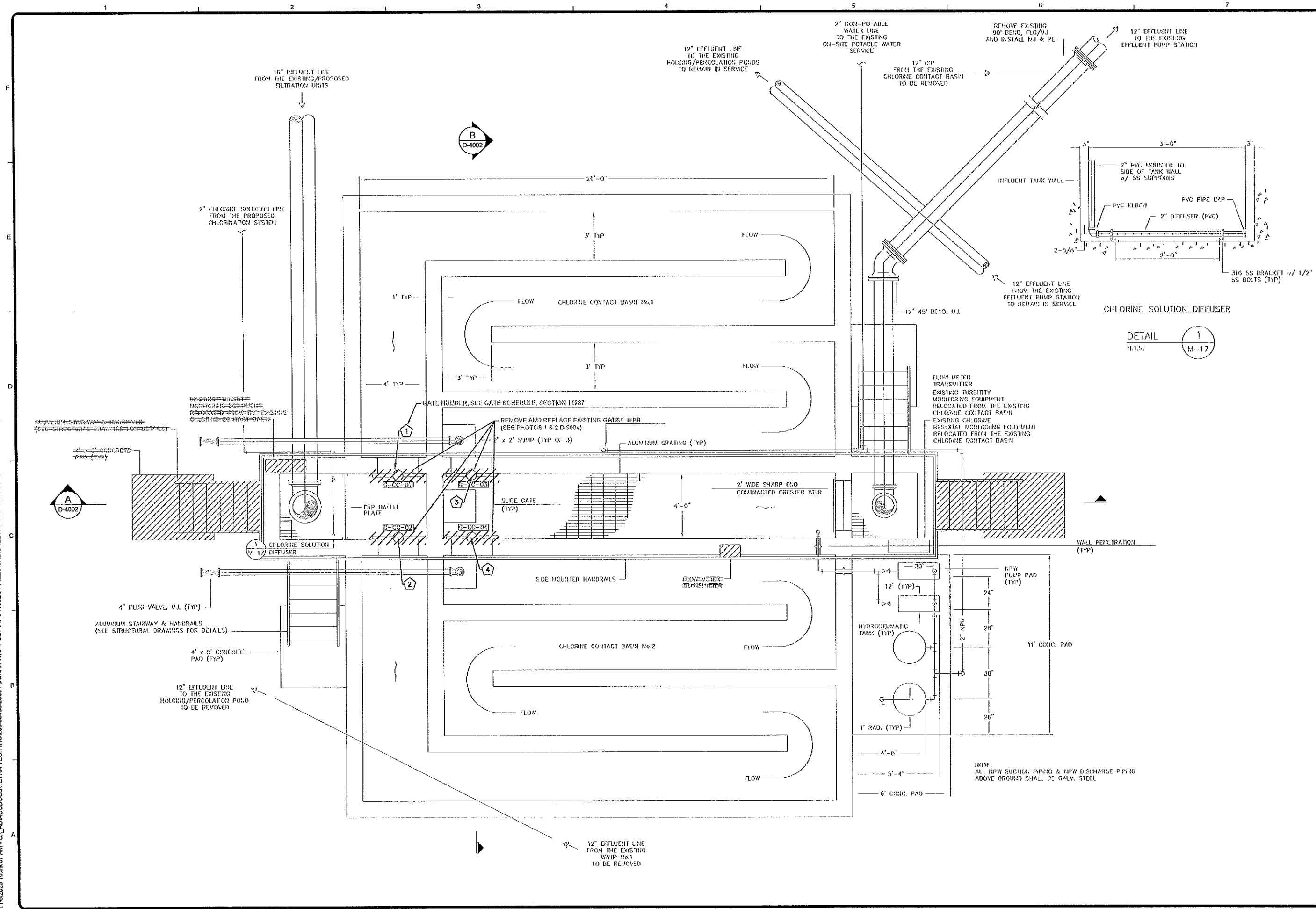
**DONAX WATER RECLAMATION FACILITY
POST HURRICANE IAN REPAIRS & HARDENING
SUPPLEMENTAL CARBON
SYSTEM PLAN AND
SECTIONS**

ROJ:	200-08498-25001
ESN:	B. KEENAN
RWN:	R. MATTHEWS
HKD:	J. TOOMEY

D-3301

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www.tetratech.com
10600 CHEVROLET WAY, SUITE 300
ESTERO, FL 33928
PHONE: (239) 390-1467 FAX: (239) 390-1788



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800 Dunlap Road
Sanibel, Florida 33957



MARK	DATE	DESCRIPTION	BY

CITY OF SANIBEL, FLORIDA
DONAX WATER RECLAMATION FACILITY
POST HURRICANE IAN REPAIRS & HARDENING
CHLORINE CONTACT BASIN MODIFICATIONS

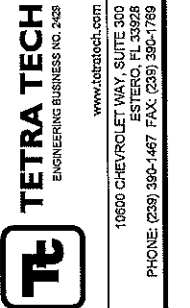
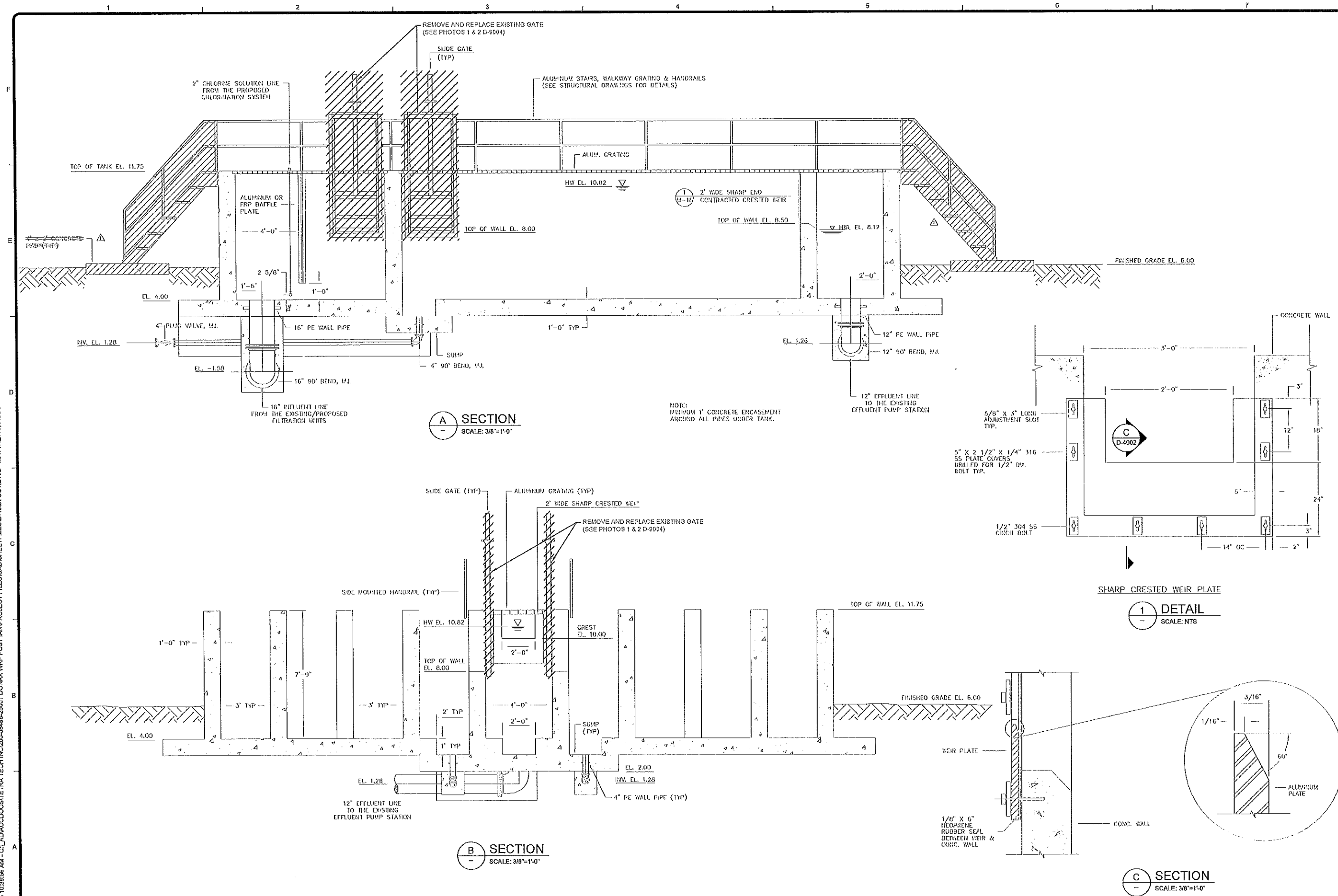
Project No.: 200-08498-25001
Designed By: B. KEENAN
Drawn By: R. MATTHEWS
Checked By: J. TOOMEY

D-4001

Bar Measures 1 Inch

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MARK	DATE	DESCRIPTION	BY

CITY OF SANIBEL, FLORIDA
DONAX WATER RECLAMATION FACILITY
POST HURRICANE REPAIRS & HARDENING
CHLORINE
CONTACT BASIN
MODIFICATIONS SECTIONS

Project No.: 200-08498-25001
Designed By: B. KEENAN
Drawn By: R. MATTHEWS
Checked By: J. TOOMEY

D-4002

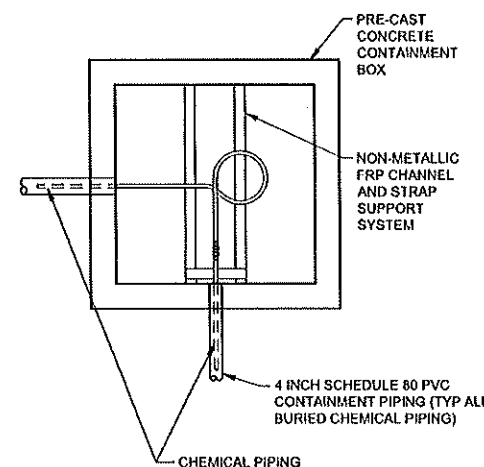
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Bar Measures 1 inch

1) CHEMICAL FEED PULL BOX

SCALE: NTS

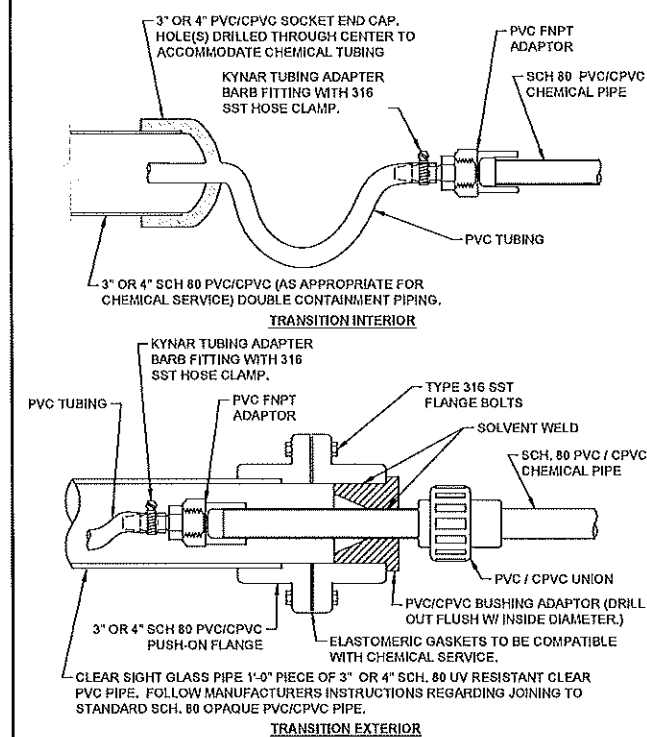
1. SEAL SPACES BETWEEN PIPES AND CIRCULAR PUNCH OUTS WITH CORROSION RESISTANT MATERIAL. GROUT IS NOT ACCEPTABLE.
2. MAINTAIN A MINIMUM 18 INCHES COVER OVER ALL PIPES.
3. CARRIER PIPING SHALL BE CONTINUOUS AND STRAIGHT BETWEEN CONTAINMENT BOXES WITH NO FITTINGS USED BETWEEN BOXES. INSTALL CARRIER PIPING INSIDE SCH 80 PVC CONTAINMENT PIPING WITHOUT FLATTENING, BUCKLING, OR THINNING THE PIPE WALL AT ANY POINT. TRANSITION TO RIGID PIPING INSIDE THE LAST CONTAINMENT BOX OR INJECTION VAULT.
4. LOOP CARRIER PIPING INSIDE CONTAINMENT BOXES TO ALLOW FOR EXPANSION AND CONTRACTION OF THE CARRIER PIPING. LOOP RADIUS SHALL BE GREATER THAN THE TUBING MANUFACTURER'S RECOMMENDED MINIMUM BEND RADIUS. SINGLE OR MULTI-BARB COUPLINGS MAY BE USED INSIDE CONTAINMENT BOXES IF NEEDED TO JOIN TUBING LENGTHS. AVOID USING COUPLINGS TO THE EXTENT POSSIBLE. SUPPORT TUBING LOOPS USING NONMETALLIC (FRP) CHANNEL AND STRAP SUPPORT SYSTEM INSIDE CONTAINMENT BOXES. CHANNEL STRAPS SHALL BE LOOSE FITTING AROUND THE TUBING TO ALLOW FOR TUBING EXPANSION/CONTRACTION.
5. REFER TO DRAWINGS FOR PIPE AND TUBING DIAMETER.
6. MINIMUM INTERIOR CONTAINMENT BOX SIZE SHALL BE 36" x 36". PROVIDE LARGER (48" x 48") FOR MORE THAN TWO CONTAINMENT PIPES ENTERING AND LEAVING THE BOX.



PULL BOX DETAIL

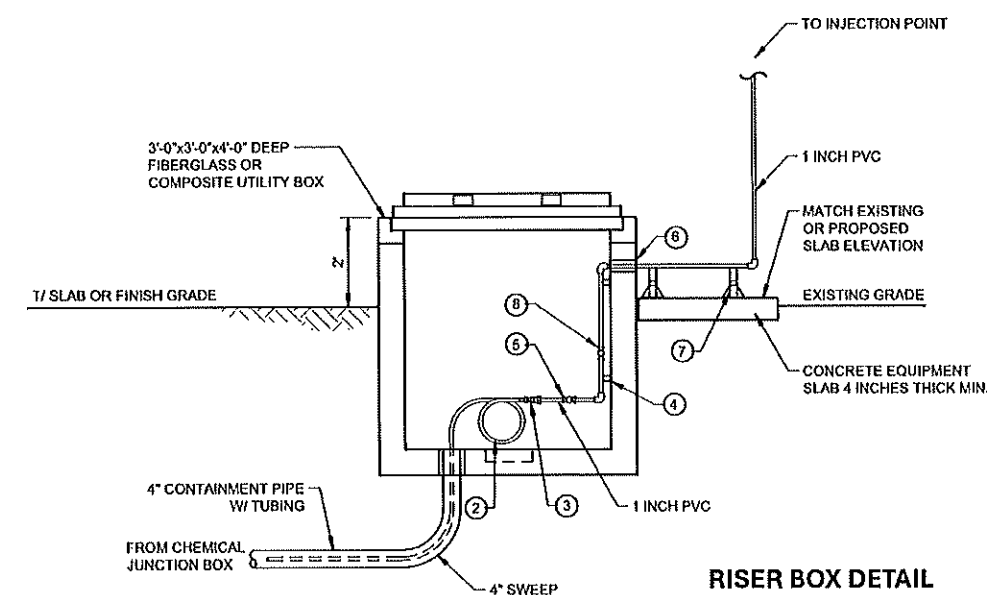
2) CHEMICAL FEED - TUBING TO PIPING TRANSITION

SCALE: NTS



3 CHEMICAL FEED RISER BOX

SCALE: NTS



- ① SEAL OPENING.
- ② LOOP OR COIL TUBING USING AT LEAST 10% MORE THAN THE MINIMUM ALLOWABLE RADIUS BEND AND SUPPORT LOOP USING NON-METALLIC PIPE SUPPORTS AND PLASTIC STRAPS OR CABLE TIES. DO NOT KINK TUBING.
- ③ TRANSITION FROM TUBING TO SCHEDULE 80 PVC RIGID PIPE USING SINGLE BARB X SOCKET TRANSITION FITTING
- ④ NONMETALLIC PIPE SUPPORT (TYPICAL). (SEE DETAIL 1 ON SHEET D-506)
- ⑤ 1 INCH SCHEDULE 80 PVC BALL VALVE.
- ⑥ 4 INCH DIAMETER PVC SLEEVE GROUTED INTO THE PRECAST BOX USING NON-SHRINK GROUT FOR XY INCH SCHEDULE 80 PVC CARRIER PIPE PENETRATION. FILL VOID BETWEEN SLEEVE AND CARRIER PIPE USING BACKER ROD AND POLYURETHANE SEALANT.
- ⑦ NONMETALLIC PIPE SUPPORT. (SEE DETAIL 3 ON SHEET D-507)
- ⑧ PVC BALL CHECK VALVE

RISER BOX DETAIL

TETRA TECH
ENGINEERING BUSINESS NO. 2429
www.tetra-tech.com
3900 CHEVROLET WAY, SUITE 300
ESTERO, FL 33928
(941) 390-1467 FAX: (239) 390-1759

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**CITY OF
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800 Dunlop Road
Sanibel, Florida 33957

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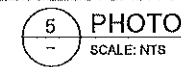
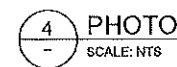
CITY OF SANIBEL, FLORIDA
DONAX WATER RECLAMATION FACILITY
POST HURRICANE JAN REPAIRS & HARDENING
PROCESS DETAILS

Project No.:	200-08498-2500
Designed By:	B. KEENAN
Drawn By:	R. MATTHEWS
Checked By:	J. TOOMEY

D-9002

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Bar Measures 1 inch

[illegible]

CITY OF SANIBEL, FLORIDA DONAX WATER RECLAMATION FACILITY POST HURRICANE IAN REPAIRS & HARDENING PROCESS DETAILS

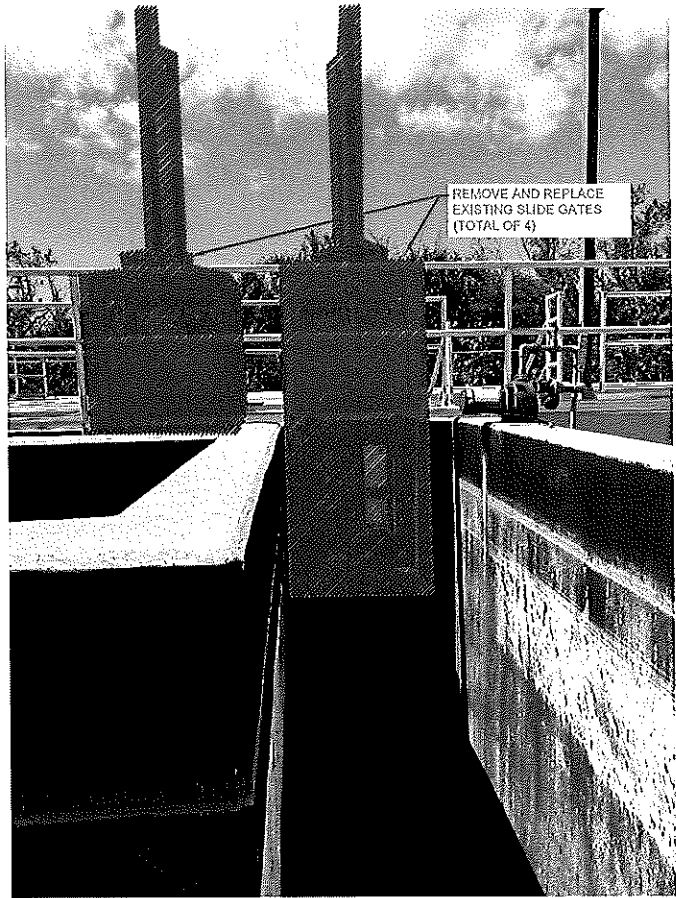
Project No.:	200-08498-25001
Designed By:	B. KEENAN
Drawn By:	R. MATTHEWS
Checked By:	J. TOOMEY

D-9003

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Counts: Total Tach

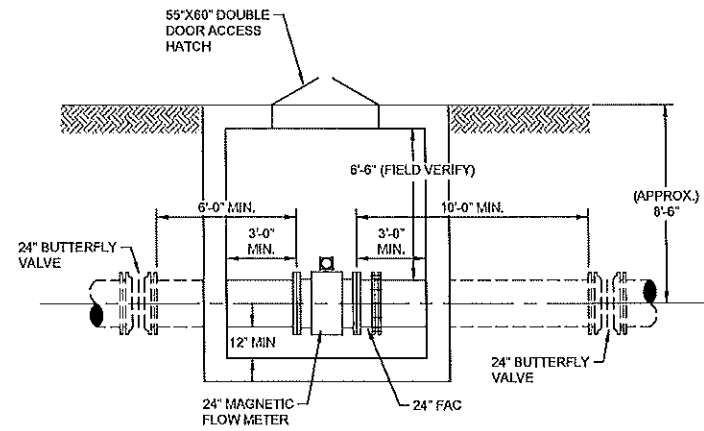
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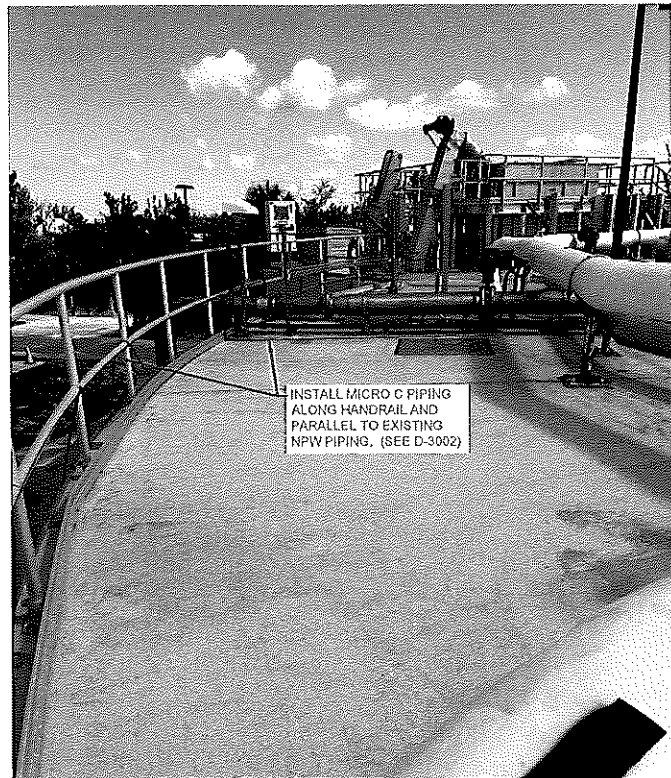
1 PHOTO
SCALE: NTS



2 PHOTO
SCALE: NTS



3 VALVE VAULT
SCALE: 1/4"=1'-0"



4 PHOTO
SCALE: NTS



5 PHOTO
SCALE: NTS



6 PHOTO
SCALE: NTS



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SANIBEL

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Sanibel, Florida 33957



MARK	DATE	DESCRIPTION	BY

CITY OF SANIBEL, FLORIDA
DONAX WATER RECLAMATION FACILITY
POST HURRICANE REPAIRS & HARDENING
PROCESS DETAILS

Project No.: 200-08498-25001
Designed By: B. KEENAN
Drawn By: R. MATTHEWS
Checked By: J. TOOMEY

D-9004

Bar Measures 1 inch

11/15/2025 4:15:49 PM Autodesk Docs://200-08498-25001 Donax WRF Post Ian/M-DonaxWRF_IAN SCADA Improvements.mxd



NOTES:

1. THIS LEGEND IS FOR REFERENCE ONLY.
2. ALL SYMBOLS WITHIN THIS LEGEND MAY NOT APPLY TO THIS PROJECT.

DEMOLITION	DEMOLITION
EXISTING	EXISTING
(E)	(E)
(R)	RELOCATED
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
APPROX	APPROXIMATE
BFF	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTER
CA	COMPRESSED AIR
CAP	CAPACITY
CO	CLEAN OUT
COND	CONDENSATE
CONN	CONNECTION
CONT	CONTINUATION
D	DRAIN
DCW	DOMESTIC COLD WATER
DEG	DEGREES
DEMO	DEMOLITION
DIA	DIAMETER
DN	DOWN
DS	DOWNSPOUT
DWG	DRAWING
EA	EACH
EEW	EMERGENCY EYEFACE WASH
ENT	ENTERING
ESS	EMERGENCY SAFETY SHOWER
ET	EXPANSION TANK
F	FAHRENHEIT
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FM	FLOW METER
FPH	FREEZE PROOF HYDRANT
FPM	FEET PER MINUTE
GAL	GALLONS
GD	GARBAGE DISPOSAL
GM	GAS METER
GPM	GALLONS PER MINUTE
GWH	GAS WATER HEATER
HB	HOSE BIBB
HD	HEAD
HO	HUB OUTLET
HP	HORSEPOWER
HW	HOT WATER
HWR	HOT WATER RETURN
ID	INSIDE DIAMETER/DIMENSION
IE	INVERT ELEVATION
IN	INCH
IW	INDUSTRIAL WASTE
IWH	INSTANTANEOUS WATER HEATER
LAV	LAVATORY
M	METER
MAX	MAXIMUM
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
NA	NOT APPLICABLE
NG	NATURAL GAS
NPW	NON-POTABLE WATER
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
PCV	PRESSURE CONTROL VALVE
PD	PRESSURE DROP
PG	PRESSURE GAUGE
PLBG	PLUMBING
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
PW	POTABLE WATER
R	RADIUS
RD	ROOF DRAIN
RP	RECIRCULATION PUMP
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
SK	SANITARY SEWER PIPING
SN	SINK
SP	SUMP PUMP
SPEC	SPECIFICATION
STD	STANDARD
STO	STORM
SW	SERVICE WATER
TBD	TO BE DETERMINED
TCV	TEMPERING VALVE
TO	TRENCH DRAIN
TEMP	TEMPERATURE
TNV	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER
TW	TEPID WATER
TYP	TYPICAL
UR	URINAL
V	VENT
VIF	VERIFY IN FIELD
VS	VENT STACK
VTR	VENT THRU ROOF
WB	WASHER BOX
WCO	WALL CLEAN OUT
WG	WATER GAUGE
WPD	WATER PRESSURE DROP

(E)	DEMOLITION
(E)	EXISTING
(R)	RELOCATED
AAV	AUTOMATIC AIR VENT
ABS	ABSOLUTE
AD	ACCESS DOOR
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
APPROX	APPROXIMATE
BFF	BELOW FINISHED FLOOR
BHP	BRAKE HORSEPOWER
CAP	CAPACITY
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CONC	CONCRETE
COND	CONDENSATE
CONN	CONNECTION
CONT	CONTINUATION
CP-1	CONTROL PANEL WITH DESIGNATION
CU	CONDENSING UNIT
CW	CHILLED WATER
DB	DRY BULB
DEG	DEGREES
DEMO	DEMOLITION
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
EA	EXHAUST AIR
EAG	EXHAUST AIR GRILLE
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
EMCS	EMERGENCY MANAGEMENT AND CONTROL SYSTEM
ENT	ENTERING
ERV	ENERGY RECOVERY VENTILATOR
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EHX	ELECTRIC UNIT HEATER
EWT	ENETERING WATER TEMPERATURE
EXH	EXHAUST
F	FAHRENHEIT
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FH	FIRE HYDRANT
FLEX	FLEXIBLE
FM	FLOW METER
FPM	FEET PER MINUTE
GAL	GALLONS
GH	GRAVITY HOOD
GM	GAS METER
GPM	GALLONS PER MINUTE
GUH	GAS UNIT HEATER
HP	HORSEPOWER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
ID	INSIDE DIAMETER/DIMENSION
IE	INVERT ELEVATION
IN	INCH
L	LOUVER
LAT	LEAVING AIR TEMPERATURE
LP	LOUVERED PENTHOUSE
LVL	LEVEL
LWT	LEAVING WATER TEMPERATURE
M	METER
MAX	MAXIMUM
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
N/A	NOT APPLICABLE
NG	NATURAL GAS
NTS	NOT TO SCALE
OA	OUTDOOR AIR
OD	OUTSIDE DIAMETER
OED	OPEN ENDED DUCT
PD	PRESSURE DROP
PSI	POUNDS PER SQUARE INCH
R	RADIUS
RA	RETURN AIR
RAG	RETURN AIR GRILLE
REFRIG	REFRIGERANT
RH	RADIANT HEATER
RL	REFRIGERANT LIQUID LINE
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION LINE
SA	SUPPLY AIR
SAG	SUPPLY AIR GRILLE
SB	SECURITY BARS
SF	SUPPLY FAN
SPEC	SPECIFICATION
STD	STANDARD
T	THERMOMETER
TA	TRANSFER AIR

APPLICABLE CODES AND STANDARDS	
FLORIDA BUILDING CODE, 8TH EDITION	FBC 2023
FLORIDA BUILDING CODE, MECHANICAL, 8TH EDITION	FMC 2023
FLORIDA BUILDING CODE, PLUMBING, 8TH EDITION	FPC 2023
FLORIDA BUILDING CODE, FUEL GAS CODE, 8TH EDITION	FFGC 2023
FLORIDA BUILDING CODE, HURRICANE TESTING, 8TH EDITION	FL TEST PROT. 2023
NATIONAL ELECTRIC CODE	NEC 2020
OCCUPATIONAL SAFETY AND HEALTH ACT	OSHA
*ALL APPLICABLE BUILDING CODES AND STANDARD NOT SPECIFIED HEREIN	

1. THESE GENERAL NOTES APPLY TO ALL SHEETS. REFER TO INDIVIDUAL SHEETS FOR SHEET NOTES.
2. CONTRACT DOCUMENT DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. DO NOT SCALE FOR MATERIAL QUANTITIES. ALL SCALING SHOULD BE REFERENCED TO ARCHITECTURAL PLANS ONLY.
3. ALL EQUIPMENT AND PIPING SHALL BE INSTALLED IN COMPLIANCE WITH THE CODES LISTED IN THE TABLE ABOVE.
4. ALL INTERIOR FLOOR DRAINS AND OPEN RECEPTACLES WITH TRAPS SHALL BE PROTECTED BY A TRAP PRIMER.
5. WATER LINES SHALL NOT BE ROUTED ABOVE ANY ELECTRICAL ROOMS, ELECTRICAL PANELS, OR TELEPHONE ROOMS.
6. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH OTHER TRADES TO MINIMIZE SPATIAL CONFLICTS.
7. INSTALL BOTTOM OF ALL EXTERIOR WALL HYDRANTS AT 24" ABOVE FINISH GRADE.
8. PROVIDE ACCESS PANELS WITH SQUARE HINGED, LOCKING DOORS FOR ALL CONCEALED VALVES, SHOCK ABSORBERS AND TRAP PRIMERS.
9. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS BEFORE CONSTRUCTION BEGINS.
10. PROVIDE ISOLATION VALVES AT ALL PIPE CONNECTIONS TO EQUIPMENT.
11. COORDINATE NEW WATER METER LOCATION WITH LOCAL UTILITY AUTHORITY.
12. PROVIDE WALL PIPE PENETRATIONS AS REQUIRED WHERE PIPE ENTERS BUILDING. SLEEVE AND SEAL OPENING WITH CAULKING AND ESCUTCHEON FOR A WATER-TIGHT INSTALLATION.

1. THESE GENERAL NOTES APPLY TO ALL SHEETS. REFER TO INDIVIDUAL SHEETS FOR SHEET SPECIFIC NOTES.
2. CONTRACT DOCUMENT DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. DO NOT SCALE FOR MATERIAL QUANTITIES. ALL SCALING SHOULD BE REFERENCED TO ARCHITECTURAL PLANS ONLY.
3. COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ALL OTHER DISCIPLINES AND AS SHOWN ON OTHER CONTRACT DRAWINGS.
4. CONTRACTOR SHALL VISIT SITE AND VERIFY ALL EXISTING CONDITIONS AND CONNECTIONS TO EXISTING WORK PRIOR TO BIDDING AND CONSTRUCTION.
5. COORDINATE ALL CUTTING AND PATCHING WITH GENERAL CONTRACTOR AND OTHER DISCIPLINES. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING RELATED TO THEIR WORK.
6. ALL ATTACHMENTS TO THE BUILDING STRUCTURE SHALL BE COORDINATED WITH THE STRUCTURAL DESIGN. ALL BRACING AND MOUNTING OF PIPES AND DUCTS SHALL MEET THE MINIMUM REQUIREMENTS OF THE MOST RECENT SMACNA HVAC DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE. CONTRACTOR SHALL MAINTAIN ONE COPY OF THIS MANUAL ON SITE AT ALL TIMES.
7. PROVIDE FLASHING AND COUNTERFLASHING FOR ALL PENETRATIONS THROUGH WALLS OR ROOF TO MAKE WATERPROOF INSTALLATION.
8. MAINTAIN A MINIMUM OF 6'-8" CLEARANCE TO UNDERSIDES OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.
9. CONCRETE HOUSEKEEPING PADS FOR MECHANICAL EQUIPMENT SHALL HAVE A MINIMUM PAD THICKNESS OF 6 INCHES. PAD SHALL EXTEND BEYOND THE EQUIPMENT A MINIMUM OF 6 INCHES ON EACH SIDE. CONCRETE HOUSEKEEPING PADS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR.
10. ALL MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION AND AS SHOWN IN THE DETAILS FOR PIPING, DUCTWORK, AND EQUIPMENT (UNLESS OTHERWISE NOTED) SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
11. ALL TESTS SHALL BE COMPLETED BEFORE ANY MECHANICAL EQUIPMENT OR PIPING INSULATION IS APPLIED.
12. BALANCE AIR FLOW AT ALL AIR INLETS AND OUTLETS TO AIR QUANTITIES SHOWN. BALANCE ALL WATER FLOWS TO COILS AND MECHANICAL EQUIPMENT TO VALUES SHOWN. INSTALL TEST PLUGS WHERE NECESSARY. BALANCING CONTRACTOR SHALL BE INDEPENDENT OF THE INSTALLING CONTRACTORS AND CERTIFIED BY THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) OR ASSOCIATED AIR BALANCE COUNCIL (AABC).
13. ALL EXPOSED PIPE, PIPE SUPPORTS, DUCTWORK, UNFINISHED EQUIPMENT AND DUCT SUPPORTS SHALL MATCH ADJACENT FINISHES AS REQUIRED BY PAINTING SPECIFICATION AND ARCHITECTURAL DRAWINGS.
14. AT COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL PROVIDE COPIES OF BOUND OPERATIONS AND MAINTENANCE MANUALS.
15. REFER TO ARCHITECTURAL PLANS FOR DOOR SCHEDULE WITH DOOR GRILLES AND/OR UNDERCUT DOORS THAT ARE USED FOR TRANSFER AIR.
16. AT THE TIME OF ROUGH INSTALLATION AND DURING STORAGE ON THE CONSTRUCTION SITE UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEETMETAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY ENTER THE SYSTEM.

MP-001

Bar measures 1 inch, otherwise drawing is not to scale

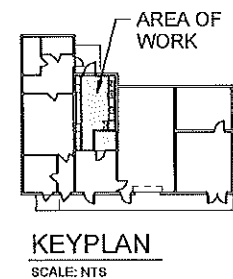
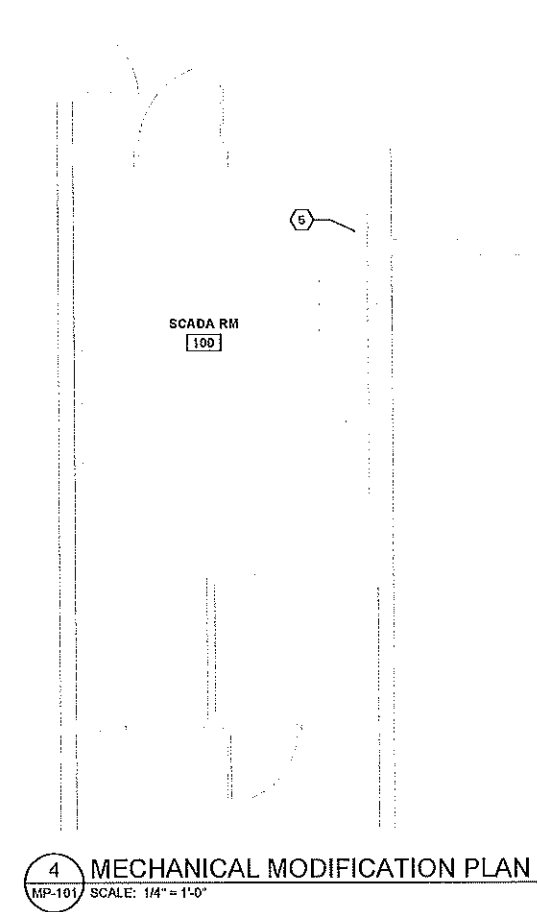
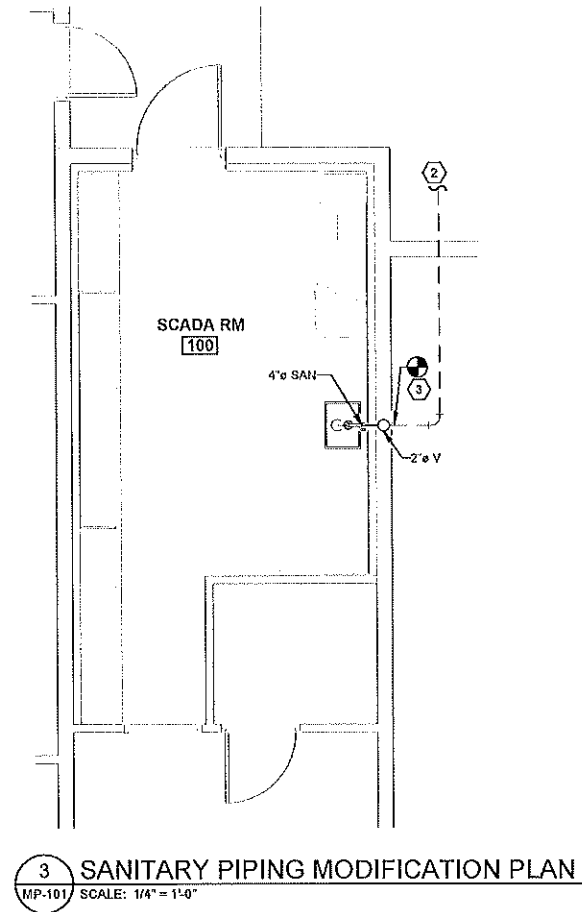
INSTANTANEOUS ELECTRIC WATER HEATER SCHEDULE									
MARK	DESCRIPTION	ELECTRICAL					MANUFACTURER	MODEL	NOTES
		CAP. (KW)	V	PH	HZ	TOTAL AMP DRAW			
IWH-1	WALL-MOUNT, TANKLESS	4	208 V	1	60 Hz	20 A	EEMAX	SPEX4208	1

NOTES
1. PROVIDE NEMA 4 ENCLOSURE

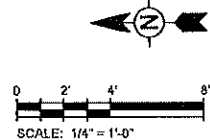
PLUMBING FIXTURE SCHEDULE								
MARK	DESCRIPTION	CONNECTION SIZE (IN)				MANUFACTURER	MODEL	NOTES
		DCW	HW	WASTE	VENT			
KS-1	COUNTER MOUNT KITCHEN SINK	1/2"	1/2"	1 1/4"	2"	KRAUS	KH1301-25L	1,2,3

NOTES:

1. PRODUCT BRANDS SHOWN ON DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY AND SHALL NOT BE CONSTRUED AS THE ONLY PRODUCT AVAILABLE. OTHER BRAND SELECTED SHALL MEET THE PERFORMANCE AND MATERIAL SPECIFICATIONS OF PRODUCTS LISTED.
2. FIXTURE SHALL BE INSTALLED PER MANUFACTURER RECOMMENDATIONS TO MEET ADA/ANSI A117.1 REQUIREMENTS.
3. PROVIDE ZURN Z6915-XL 0.5 GPM FAUCET WITH ZURN P6000 HARDWARE KIT, AND ZURN 1231 CONCEALED ARM SYSTEM.



SCALE: NTS



Bar measures 1 inch, otherwise drawing is not to scale

- KEYED NOTES:**
1. CONTRACTOR MUST VERIFY IN FIELD SIZE LOCATION AND CONTINUATION OF EXISTING DOMESTIC WATER LINE.
 2. CONTRACTOR MUST VERIFY IN FIELD SIZE LOCATION AND CONTINUATION OF EXISTING SANITARY SEWER LINE.
 3. CONNECT NEW PIPING TO EXISTING PIPING SYSTEM.
 4. PROVIDE ICEMAKER BOX DUTY PART NO 38625 OR ENGINEER APPROVED EQUAL.
 5. FURNISH AND INSTALL A STAINLESS STEEL EXHAUST DUCT CONNECTED TO THE DRY-RAKE MICROWAVE, AND VENT TO THE EXTERIOR OF THE BUILDING. EXHAUST DUCT MUST BE AIRTIGHT, EQUIPPED WITH A BACKDRAFT DAMPER, AND SHALL BE INDEPENDENT OF ALL OTHER EXHAUST SYSTEMS IN ACCORDANCE WITH THE 8TH EDITION FLORIDA BUILDING CODE—MECHANICAL, SECTION 505.1. TERMINATE DUCT AT THE EXTERIOR WITH XVENT BOX MODEL 45EB OR APPROVED EQUAL. INSTALL ALL COMPONENTS PER MANUFACTURERS RECOMMENDATIONS.



TETRA TECH
ENGINEERING BUSINESS NO. 3429

BID SET

**CITY OF
SANIBEL**
800 Dunlop Road
Sanibel, Florida 33957



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SECRET

**DONAX WATER RECLAMATION FACILITY
POST HURRICANE IAN REPAIRS & HARDENING
MECHANICAL AND
PLUMBING MODIFICATION
PLANS AND SCHEDULES**

PROJ: 200-08498-25001

DESN: F. AL TWAL

DRWN: T. SOE

MP-101

Copyright: Tetra Tech

11/11/2025 9:25:04 AM - C:\AD\ACCD\OOSTETRA TECH INC\200-08498-25001 DONAX WRF POST IAN\PROJECT FILES\CAD\SHEET\FILESET\001 ELECTRICAL LEGEND.DWG - SEIGNORET, JASON

GENERAL AND ANNOTATIVE SYMBOLS

SYMBOL	DESCRIPTION
	CALLOUT - CONDUIT
	CALLOUT - EQUIPMENT
	CALLOUT - INSTRUMENT
	CONSTRUCTION NOTE
	KEYED NOTE REFERENCE
	OFF-SHEET REFERENCE FOR WIRING AND CIRCUITS
	LIGHT LINE INDICATED EXISTING ELECTRICAL OR EXISTING EQUIPMENT. LIGHT LINE MAY ALSO BE USED FOR DETAIL DRAWING CLARITY.
	HEAVY LINE INDICATES NEW WORK TO BE PROVIDED
	HATCH INDICATES EXISTING WORK TO BE REMOVED
	LINE-BREAK
	CONDUCTORS CONNECTED
	CONDUCTORS NOT CONNECTED
	CONTINUATION

GENERAL AND ANNOTATIVE SYMBOLS

SYMBOL	DESCRIPTION
	EXPOSED CONDUIT
	BRANCH CIRCUIT, CONCEALED ABOVE CEILING OR IN WALL WHERE POSSIBLE. WHERE EXPOSED ROUTE PARALLEL AND PERPENDICULAR TO STRUCTURE.
	CONDUIT IN SLAB OR BELOW GRADE
	UNDEGROUND ELECTRICAL PRIMARY CONDUCTOR
	DIRECT BURIED CABLE
	UNDERGROUND CONCRETE ENCASED DUCT BANK
	DIRECT BURIED CONDUIT
	OVERHEAD NON-RIGID LINE
	CONDUIT WITH CLASSIFIED CONDUIT SEAL FITTING
	NON-RIGID CONDUIT
	CONDUIT TO CABLE GLAND SEAL
	CONDUIT BENDS TOWARD OBSERVER
	CONDUIT BENDS AWAY FROM OBSERVER
	CONDUIT STUB AND CAPPED
	BRANCH CIRCUIT HOME RUN. 3/4" C (#12 AWG MIN) U.N.O. P1 - PANELBOARD X,Y,Z - CIRCUIT NUMBERS
	BELOW-GRADE PENETRATION CONDUIT SEAL
	CONDUIT FIRE-RATED WALL PENETRATION
	CABLE TRAY

GENERAL AND ANNOTATIVE SYMBOLS

SYMBOL	DESCRIPTION
	EXPOSED CONDUIT
	BRANCH CIRCUIT, CONCEALED ABOVE CEILING OR IN WALL WHERE POSSIBLE. WHERE EXPOSED ROUTE PARALLEL AND PERPENDICULAR TO STRUCTURE.
	CONDUIT IN SLAB OR BELOW GRADE
	UNDEGROUND ELECTRICAL PRIMARY CONDUCTOR
	DIRECT BURIED CABLE
	UNDERGROUND CONCRETE ENCASED DUCT BANK
	DIRECT BURIED CONDUIT
	OVERHEAD NON-RIGID LINE
	CONDUIT WITH CLASSIFIED CONDUIT SEAL FITTING
	NON-RIGID CONDUIT
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	CONDUIT FIRE-RATED WALL PENETRATION
	CABLE TRAY

GENERAL AND ANNOTATIVE SYMBOLS

SYMBOL	DESCRIPTION
	5-20R DUPLEX RECEPTACLE, 20 AMP, 5-20R, 125V - 18" AFF INTERIOR, 48" AFG EXTERIOR, U.N.O. XX - MOUNTING HEIGHT GFCI - GROUND FAULT PROTECTION WP - WEATHERPROOF WHILE IN USE COVER IG - ISOLATED GROUND
	FLOOR MOUNT DUPLEX RECEPTACLE
	QUADPLEX RECEPTACLE
	CEILING MOUNT DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE - POWERED FROM UPS
	HALF SWITCHED DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE - MOUNT 6" ABOVE COUNTER
	RECEPTACLE - DUPLEX OUTDOOR WP/GFCI w/ IN-USE COVER
	RECEPTACLE - SPECIAL (AS INDICATED ON PLANS)
	T - TWIST LOCK
	RECEPTACLE - PORTABLE GENERATOR INLET
	RECEPTACLE - PLUG STRIP
	FURNITURE SYSTEM CONNECTION BOX
	NUMBERS ADJACENT TO RECEPTACLE INDICATED SOURCE PANEL ("P,X") AND CIRCUIT NUMBER ("Y") FEEDING BRANCH CIRCUIT.

LIGHTING SYMBOLS

SYMBOL	DESCRIPTION
	CEILING MOUNTED EXIT SIGN. ARROW IF INDICATED DENOTES ARROWS ON EXIT FACE PLACE. HATCH INDICATES NUMBER OF EXIT FACES. XX - DENOTES TYPE. SEE FIXTURE SCHEDULE
	WALL MOUNTED EXIT SIGN.
	EMERGENCY UNIT LIGHT FIXTURE WITH 2 HEADS
	CEILING LIGHT FIXTURE, SIZED PER PHYSICAL DIMENSIONS OF FIXTURE XX - DENOTES TYPE. SEE FIXTURE SCHEDULE a - DENOTES CONTROLLED BY SWITCH IF INDICATED P1:10 - DENOTES SOURCE PANEL AND BRANCH CIRCUIT NUMBER
	CEILING LIGHT FIXTURE HATCH DENOTES EQUIPPED WITH EMERGENCY BATTERY BACKUP UNIT
	WALL MOUNTED LIGHT FIXTURE
	RECESSED DOWN LIGHT FIXTURE
	HIGH MAST LIGHT FIXTURE
	POLE MOUNTED LIGHT FIXTURE
	POLE MOUNTED LIGHT FIXTURE WITH NUMBER OF ARMS OR HEADS AS SHOWN
	HANDRAIL MOUNTED LIGHT FIXTURE

SWITCH SYMBOLS

SYMBOL	DESCRIPTION
	120/277V, SINGLE TOGGLE, LIGHT SWITCH. 48" AFF U.N.O. X - DENOTES TYPE 3 - 3 WAY 4 - 4 WAY D - DIMMING (1500 WATT U.N.O.) OS - OCCUPANCY SENSOR WITH MANUAL OVERRIDE OSD - OCCUPANCY SENSOR WITH DIMMING AND MANUAL OVERRIDE M - MOTOR RATED LOCKABLE TOGGLE SWITCH LV - LOW VOLTAGE DIGITAL LV2 - LOW VOLTAGE DIGITAL WITH DIMMING WP - WEATHERPROOF COVER HOA - HAND-OFF-AUTO a - DENOTES FIXTURES CONTROLLED
	VACANCY/OCCUPANCY SENSOR, CEILING MOUNTED
	PHOTOCELL (MOUNT EXTERIOR OF BUILDING FACING NORTH U.N.O.)
	LIGHTING CONTACTOR.

POWER PLAN SYMBOLS

SYMBOL	DESCRIPTION
	DISCONNECT SWITCH (SIZE MAY VARY AND MAY DENOTE ACTUAL EQUIPMENT DIMENSIONS) X - DENOTES TYPE F - FUSED NF - NON-FUSED (OR LEFT BLANK) CB - ENCLOSED CIRCUIT BREAKER 3P - NUMBER OF POLES 30A - AMP RATING IF NON-FUSED, OR 4X - NEMA RATING 3R - PAINTED STEEL 4X - 316 STAINLESS STEEL N1 - INTERIOR RATED N12 - INTERIOR WITH DUST GASKET 4XP - NON-METALLIC NEMA 4X
	COMBINATION TYPE STARTER AND DISCONNECT X - NEMA STARTER SIZE M - MAGNETIC TYPE (U.N.O.) E - ELECTRONIC TYPE
	FULL VOLTAGE NON-REVERSING (FVNR) STARTER
	TOP NUMBER DENOTES FRAME SIZE BOTTOM NUMBER DENOTES TRIP OR FUSE SIZE
	JUNCTION BOX - GENERAL-PURPOSE
	EXTERIOR JUNCTION BOX XX DENOTES NEMA RATING HxWxD DENOTES DIMENSIONS
	PULL-BOX
	HAND HOLE
	MAN HOLE
	TERMINAL BOX
	UTILITY METER
	DRY-TYP TRANSFORMER (U.N.O.). SIZE MAY VARY TO DENOTE ACTUAL TRANSFORMER DIMENSIONS
	ELECTRICAL EQUIPMENT AS NOTED ON PLANS. SURFACE MOUNTED.
	ELECTRICAL EQUIPMENT AS NOTED ON PLANS. FLUSH OR RECESSED MOUNTED.
	MOTOR OR MOTOR CONNECTION POINT X - DENOTES HP
	CABLE REEL
	PROVIDE ELECTRICAL CONNECTION TO EQUIPMENT FURNISHED BY OTHERS
	CONTROL SWITCH OR STATION FOR MOTORS
	SURGE PROTECTION DEVICE C3 = SERVICE ENTRANCE DEVICE (TYPE 1) B3 = DISTRIBUTION DEVICE (TYPE 2) A3 = POINT OF USE DEVICE (TYPE 3)
	SHUNT-TRIP BUTTON. FLUSH MOUNTED U.N.O. NEMA 4X FOR EXTERIOR LOCATIONS
	VARIABLE FREQUENCY DRIVE
	REDUCED VOLTAGE SOFT STARTER
	AUTOMATIC TRANSFER SWITCH
	GENERATOR
	THERMOSTAT
	LIGHTING CONTACTOR
	UTILITY POLE
	FLOAT SWITCH



BID SET



MARK	DATE	DESCRIPTION	BY

CITY OF SANIBEL, FLORIDA
DONAX WATER RECLAMATION FACILITY
POST HURRICANE IAN REPAIRS & HARDENING
ELECTRICAL LEGEND

Project No.: 200-08498-25001
Designed By: JAS
Drawn By: JAS
Checked By: JDM

E-0001

Bar Measures 1 Inch

Copyright: Tetra Tech

- PERFORM WORK IN COMPLIANCE WITH CODES AND ORDINANCES APPLICABLE TO AUTHORITIES HAVING JURISDICTION, INCLUDING BUT NOT LIMITED TO: NATIONAL ELECTRICAL CODE, NATIONAL FIRE PROTECTION CODES, BUILDING CODES, ENERGY CODES, HEALTH AND SAFETY CODES, LOCAL LAWS AND REGULATIONS, AND ACCESSIBILITY REQUIREMENTS. ADJUST WORK REQUIRED BY THIS CONTRACT WHERE NECESSARY FOR COMPLIANCE.
2. ADHERE TO THE LATEST VERSION OF APPLICABLE INDUSTRY STANDARDS, INCLUDING BUT NOT LIMITED TO: ISA - INSTRUMENT SOCIETY OF AUTOMATION, ITS HANDBOOK AND RECOMMENDED PRACTICES FOR LIGHTING, NETA ACCEPTANCE TESTING STANDARDS (ATS), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE), ANSI, ELECTRONIC INDUSTRY ALLIANCE / TELECOMMUNICATIONS INDUSTRY ASSOCIATION (EIA / TIA), AND BUILDING INDUSTRY CONSULTING SERVICES INTERNATIONAL (BICSI).
3. PROVIDE EQUIPMENT AND MATERIALS LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCEPTABLE TO THE AUTHORITIES HAVING JURISDICTION. CONTROL PANELS SHALL BE UL 508A LISTED AND LABELED. ANY PLC PANEL, UL 508A CONTROL PANEL, MCC, SWITCHGEAR, STANDALONE MOTOR CONTROLLERS, OR OTHER LISTED ELECTRICAL EQUIPMENT MODIFIED IN THE FIELD AFTER IT HAS LEFT THE FACTORY SHALL BE EVALUATED BY AN NRTL TO PROVIDE A FIELD LISTING.
4. ADHERE TO OWNER'S SITE-SPECIFIC PROTOCOLS INCLUDING, BUT NOT LIMITED TO, SYSTEM OPERATIONS, HEALTH AND SAFETY, SITE ACCESS RESTRICTIONS, AND LOCK-OUT / TAG-OUT PROCEDURES.
5. PERFORM ELECTRICAL WORK IN ADHERENCE TO NECA 1 - STANDARD FOR GOOD WORKMANSHIP IN ELECTRICAL CONSTRUCTION.
6. COORDINATE WORK WITH OTHER TRADES, AND WITH OWNER'S THIRD-PARTY CONTRACTORS AS APPLICABLE.
7. THE CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO, TEMPORARY PROVISIONS TO MAINTAIN FACILITY USE, TEMPORARY PROTECTION POINTS AND COMMUNICATIONS, TOOLS / EQUIPMENT / AND MATERIALS REQUIRED FOR EXECUTION OF THEIR WORK, WORKFORCE SUPERVISION AND STAFFING, SITE HEALTH AND SAFETY, CONSTRUCTION SCHEDULING, SEQUENCE OF CONSTRUCTION, AND PLANNING AND COORDINATION OF WORK.
8. PREPARE AND SUBMIT COORDINATION DRAWINGS FOR ELECTRICAL EQUIPMENT PLACEMENT, UNDERGROUND DUCT BANKS, AND OVERHEAD CONDUIT RACKS AND CABLE TRAYS. ILLUSTRATE CONDUIT STUB-UPS AND ENTRY LOCATIONS INTO EQUIPMENT ENCLOSURES. COORDINATE WITH ADJACENT ITEMS AND CODE-REQUIRED CLEARANCES, AND ACCESS AS REQUIRED FOR OPERATIONS AND MAINTENANCE. (COORDINATION DRAWINGS ARE REQUIRED PRIOR TO EQUIPMENT SHOP DRAWING APPROVAL.)
9. PLAN, PERMIT AND EXECUTE TRAFFIC CONTROL MEASURES AS REQUIRED TO PERFORM WORK IN STREETS AND PUBLIC RIGHT-OF-WAY.
10. PROTECT NEW AND EXISTING EQUIPMENT AND MATERIALS FROM DAMAGE AND DETERIORATION DURING CONSTRUCTION. REPAIR OR REPLACE ITEMS DAMAGED DURING CONSTRUCTION TO THE EXTENT THEIR DAMAGE IS UNNOTICEABLE AND IN A MANNER THAT DOES NOT AFFECT FUNCTION, USE, OR LONGEVITY (AT NO COST TO THE OWNER). WARRANTIES SHALL NOT BE AFFECTED BY ANY REPAIRS MADE IN THE FIELD.
11. THE OWNER HAS THE RIGHT TO RETAIN OR REFUSE ANY AND REMOVED MATERIALS. COORDINATE WITH THE OWNER ON RETAINED ITEMS AND EXERCISE CARE IN REMOVAL, HANDLING AND STORAGE. ITEMS NOT RETAINED BY THE OWNER SHALL BE RECYCLED WHERE SUCH PROGRAMS EXIST, NON-RECYCLABLE ITEMS SHALL BE LAWFULLY DISPOSED OF BY THE CONTRACTOR.
12. FACILITY OPERATIONS AND USE SHALL BE MAINTAINED, EXCEPT AS EXPLICITLY IDENTIFIED FOR DECOMMISSIONING, PROVIDE TEMPORARY FACILITIES AND SERVICES NECESSARY TO MAINTAIN FACILITY OPERATIONS DURING CONSTRUCTION. COORDINATE SCHEDULING AND TEMPORARY PROVISIONS FOR SYSTEM OUTAGES WITH THE OWNER A MINIMUM OF TWO WEEKS IN ADVANCE OF WORK WHICH MAY AFFECT FACILITY OPERATIONS. THIS MAY INCLUDE TEMPORARY LIFE SAFETY SYSTEMS, TEMPORARY POWER, TEMPORARY COMMUNICATION NETWORKS, TEMPORARY CONTROLS SOFTWARE AND HARDWARE, THESE ITEMS ARE TO BE INCLUDED IN THE CONTRACTOR'S BID AND SHALL NOT BE A BASIS FOR CLAIMS OF ADDITIONAL COST OR TIME.
13. WHERE NEW UTILITIES ARE INCLUDED IN THE SCOPE OF WORK, COORDINATE EXACT DIVISION OF UTILITY WORK WITH LOCAL UTILITY COMPANIES PROVIDING SERVICES, WHERE CONTRACT REQUIREMENTS EXCEED THIS COORDINATED RESPONSIBILITY, PROVIDE SUITABLE CREDIT FOR WORK BEING PERFORMED BY OTHERS.
14. THE CONTRACT DOCUMENTS ARE DIAGRAMMATIC IN NATURE AND REPRESENT SYSTEMS THAT ARE COMPLETE AND NOT NEARLY FINAL. PROVIDER INTENDED USE, PROVIDE SUPPLEMENTAL MATERIALS, LABELS AND OTHER ANCILLARY ITEMS REQUIRED FOR COMPLETE INSTALLATION. THESE ITEMS ARE TO BE INCLUDED IN THE CONTRACTOR'S BID AND SHALL NOT BE A BASIS FOR CLAIMS OF ADDITIONAL COST OR TIME.
15. THE CONTRACTOR SHALL COORDINATE WITH THE HVAC AND PROCESS EQUIPMENT SUPPLIERS, THE INTENT OF THE ELECTRICAL DRAWINGS IS TO PROVIDE A FULLY FUNCTIONAL HVAC AND PROCESS TREATMENT SYSTEM. AS SUCH, THE CONTRACTOR MAY BE REQUIRED TO MODIFY ELECTRICAL INSTALLATION INDICATED ON PLANS OR PROVIDE SUPPLEMENTAL MATERIALS, LABOR AND OTHER ANCILLARY ITEMS REQUIRED FOR COMPLETE INSTALLATION. THESE ITEMS ARE TO BE INCLUDED IN THE CONTRACTOR'S BID AND SHALL NOT BE A BASIS FOR CLAIMS OF ADDITIONAL COST OR TIME.
16. PROVIDE ADDITIONAL JUNCTION BOXES, PULL BOXES AND HANDHOLES NECESSARY TO LIMIT INSTALLED CONDUIT BENDS TO NO MORE THAN 360-DEGREES FOR OVERHEAD WORK, AND 270-DEGREES FOR UNDERGROUND WORK. LOCATE BOXES BASED ON CABLE PULLING TENSION AND ACCESSIBILITY. SIZE BOXES PER CABLE MANUFACTURERS BENDING RADIUS REQUIREMENTS AND THE NEC. THESE ITEMS ARE TO BE INCLUDED IN THE CONTRACTOR'S BID AND SHALL NOT BE A BASIS FOR CLAIMS OF ADDITIONAL COST OR TIME. INSTALLATION OF NETWORK CABLING AND EQUIPMENT SHALL COMPLY WITH APPLICABLE EIA/TIA AND BICSI REQUIREMENTS.
17. CONVENIENCE OUTLETS SHOWN WITHOUT DESIGNATED CIRCUITRY SHALL INCLUDE CONDUIT AND WIRE BACK TO THE NEAREST 120V BRANCH CIRCUIT PANELBOARD USING WIRING METHODS CONSISTENT WITH SIMILAR CIRCUITS WITHIN THAT AREA. THIS WORK SHALL BE INCLUDED IN THE CONTRACTOR'S BID AND SHALL NOT BE A BASIS FOR CLAIMS OF ADDITIONAL COST OR TIME.

18. PROVIDE BRANCH CIRCUIT WIRING AND CONTROLS FOR INSTALLED LIGHTING SYSTEMS. THIS WORK IS TO BE INCLUDED IN THE CONTRACTOR'S BID AND SHALL NOT BE A BASIS FOR CLAIMS OF ADDITIONAL COST OR TIME.
19. ADJUST BRANCH CIRCUIT CONDUCTOR SIZES TO COMPENSATE FOR VOLTAGE DROP AND DERATING OF AMPACITY BASED ON THE NUMBER OF CONDUCTORS CONTAINED WITHIN A SUBJECT RACEWAY. FOR 20-AMPERE BRANCH CIRCUITS EXCEEDING 75-FEET IN OVERALL LENGTH, INCREASE CONDUCTORS TO #10AWG SIZE (OR GREATER) AS REQUIRED TO REDUCE VOLTAGE DROP TO NO MORE THAN THREE PERCENT LINE-TO-NEUTRAL. THESE ADJUSTMENTS ARE TO BE INCLUDED IN THE CONTRACTOR'S BID AND SHALL NOT BE A BASIS FOR CLAIMS OF ADDITIONAL COST OR TIME.
20. DIMENSIONAL TOLERANCES ARE NOT SPECIFICALLY INDICATED IN PLANS, DETAILS AND SPECIFICATIONS. ALIGN ABUTTING HORIZONTAL ITEMS WITHIN +/- .184", AND WALL-MOUNTED OR SUSPENDED ITEMS SEPARATED BY 12" OR MORE TO A TOLERANCE OF +/-16". PLUMB ITEMS SHALL NOT DEVIATE FROM TRUE VERTICAL BY MORE THAN 1/8" IN 10'-0". LEVEL EQUIPMENT TO WITHIN 1/32" ACROSS ITS HORIZONTAL SURFACE IN EACH DIRECTION.
21. ALL CONDUITS SHALL BE MINIMUM 1/2 INCH RGS (ABOVE GRADE) AND 1" PVC (BELOW GRADE) UNLESS OTHERWISE NOTED AND INCLUDE AN INSULATED GREEN GROUNDING CONDUCTOR SIZED PER THE NEC. MINIMUM WIRE SIZE SHALL BE #12 AWG UNLESS OTHERWISE NOTED. THIS GROUND WIRE SHALL BE CONNECTED AT EACH END TO THE EQUIPMENT GROUNDING. THIS ALSO INCLUDES INSTRUMENTATION DEVICES SUCH AS LEVEL, PRESSURE, FLOW TRANSMITTERS, LIMIT SWITCHES, CONTROLS, NETWORK AND I/O CABLES.
22. COMPLETELY CONCEAL POLY-VINYL CHLORIDE (PVC) CONDUITS WITHIN CONCRETE OR BELOW GRADE (UNLESS SPECIFICALLY INDICATED OTHERWISE). PROVIDE RIGID GALVANIZED STEEL RISERS AND ELBOWS (WITH OR WITHOUT PVC COATING AS SPECIFIED) FOR EMBEDDED / UNDERGROUND PVC CONDUIT RUNS.
23. SECURELY FASTEN EQUIPMENT AND MATERIALS INTO PLACE TO PROVIDE RESTRAINT AGAINST MOVEMENT AND SEPARATION DURING CONDITIONS OF REGULAR USE AND DURING SEISMIC EVENTS. PROVIDE AND SUBMIT FOR APPROVAL STRUCTURAL DESIGN AND CALCULATIONS BY A REGISTERED PROFESSIONAL ENGINEER FOR SEISMIC RESTRAINT.
24. UNDERGROUND POWER AND CONTROL CONDUIT SYSTEMS SHALL BE SEPARATED BY 12" MINIMUM AND SHALL BE RUN THROUGH SEPARATE JUNCTION BOXES AND MANHOLES.
25. ALL EXTERIOR AREAS SHALL BE CONSIDERED WET AND CORROSIVE. EXTERIOR ELECTRICAL ENCLOSURES SHALL BE NEMA 4X STAINLESS STEEL UNLESS SPECIFICALLY NOTED OTHERWISE.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COORDINATED ELECTRICAL POWER DISTRIBUTION SYSTEM IN ACCORDANCE WITH NEC ARTICLE 240.12 AND ARTICLE 700.27 COORDINATION STUDIES SHALL BE APPROVED PRIOR TO ORDERING ELECTRICAL DISTRIBUTION EQUIPMENT AND BREAKERS.
27. ELECTRICAL SYSTEM INSTALLED IN HAZARDOUS LOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 5, ARTICLE 500 OF THE NEC. EQUIPMENT SHALL BE RATED FOR THE HAZARDOUS AREA IN WHICH IT IS PLACED. CONDUITS LEAVING HAZARDOUS AREAS SHALL BE SEALED PER THE NEC. STANDARDS SUCH AS NFPA 820 AND API 500 SHALL BE USED IN ACCORDANCE WITH CHAPTER 5 OF THE NEC.
28. THE CONTRACTOR SHALL SIZE WIRING NOT EXPLICITLY SHOWN ON THE DRAWINGS ACCORDING TO THE REQUIREMENT OF THE NEC FOR THE SPECIFIC APPLICATION AND CONDITIONS. THE INSTALLATION SHALL BE IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS.
29. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING UNDERGROUND UTILITIES AND PROTECTING SAID UTILITIES DURING THE INSTALLATION OF THE ELECTRICAL SYSTEM.
30. WHERE SELECTIVE DEMOLITION TO EXISTING PAVEMENTS AND SIDEWALKS ARE REQUIRED TO PERFORM CONSTRUCTION ACTIVITIES, NEATLY SAW-CUT SURFACES ALONG EDGES OF WORK AREA.
31. CORE-DRILLING SHALL BE UTILIZED FOR CONCRETE WALLS AND FLOORS WHERE PENETRATIONS ARE REQUIRED. LOCATE REINFORCING STEEL PRIOR TO CORE DRILLING AND AVOID CUTTING STEEL WHERE POSSIBLE. WHERE CUTTING OF REINFORCING STEEL IS UNAVOIDABLE, SUBMIT AN RFI AND OBTAIN STRUCTURAL APPROVAL FOR THE NECESSARY REPAIRS ASSOCIATED WITH CUTTING REINFORCING STEEL.
32. VERIFY VOLTAGE AND PHASE PRIOR TO ORDERING AND AGAIN PRIOR TO TERMINATION OF CONDUCTORS ON EQUIPMENT AND DEVICES. DAMAGES RESULTING FROM LACK OF VERIFICATION SHALL BE BORNE BY THE CONTRACTOR.
33. SECURE SURFACE-MOUNTED ELECTRICAL EQUIPMENT AND RACEWAYS WITH CHANNEL STRUT. MINIMUM STRUT LENGTH TO BE 12 INCHES, WHERE POSSIBLE.
34. APPLY DUCT SEAL TO CONDUITS ENTERING CONTROL PANELS AND ELECTRICAL EQUIPMENT ENCLOSURES.
35. ADJUST EQUIPMENT RATINGS AND CAPACITIES TO COMPENSATE FOR SITE-SPECIFIC AMBIENT TEMPERATURE CONDITIONS AND ELEVATIONS. SIZE EQUIPMENT AS HEAVY DUTY WHERE CONDITIONS OF USE WARRANT.
36. PERFORM FINAL POWER STUDIES AND ARC-FLASH EVALUATION AFTER EQUIPMENT HAS BEEN SELECTED, BUT PRIOR TO ORDERING, ALLOWING FOR ADJUSTMENTS TO OVERCURRENT DEVICE SELECTION AND EQUIPMENT RATINGS AS DETERMINED BY THE STUDY. UNSUITABLE EQUIPMENT ORDERED PRIOR TO PERFORMING THESE STUDIES SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
37. WIRE STARTERS IN ACCORDANCE WITH NEMA STANDARD ICS 18-2001 (CURRENT VERSION), CLASS IIB WIRING. SUBMIT ENGINEERED SHOP DRAWINGS FOR STARTERS SHOWN TO BE WIRED.
38. MAINTAIN A COMPREHENSIVE SET OF UP TO DATE AS-CONSTRUCTED RECORD DOCUMENTS, WHICH SHALL BE KEPT AND AVAILABLE FOR ON-SITE REVIEW AT ALL TIMES. USING CONFORMED DOCUMENTS AS A BASE, UTILIZE COLOR-CODED MARKUPS TO INDICATE FIELD MODIFICATIONS; RED TO INDICATE ADDED WORK OR REVISED LOCATIONS OF NEW WORK, GREEN FOR DELETED CONTENT, PURPLE FOR EXISTING CONDITIONS, AND BLUE FOR NON-TECHNICAL EXPLANATORY NOTES. YELLOW HIGHLIGHTING MAY BE USED TO INDICATE WORK COMPLETED AND IN FULL COMPLIANCE WITH THE CONFORMED SET.

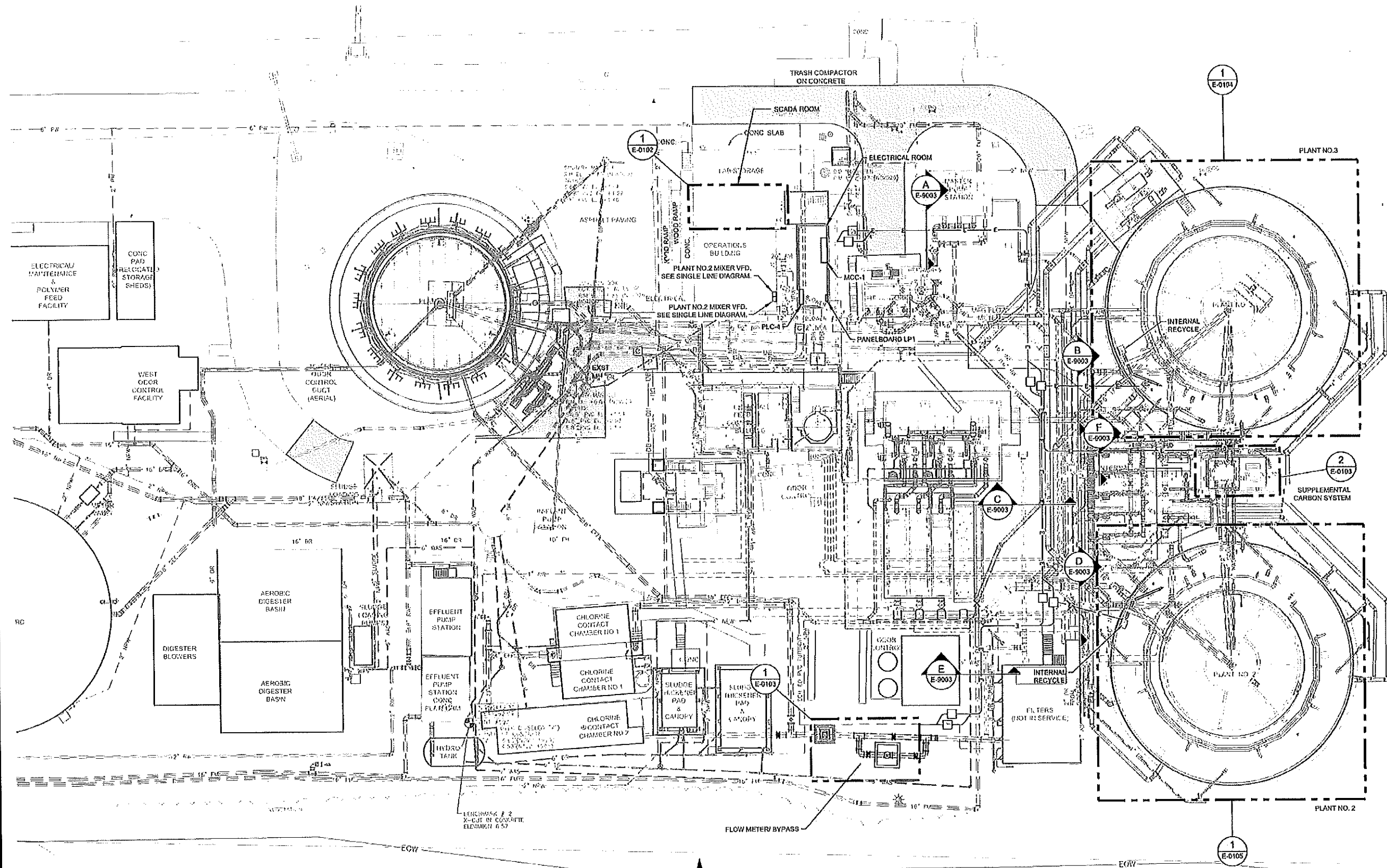
	PERCENTAGE	FBC	FLORIDA BUILDING CODE
2P	TWO POLE	FCV	FLOW CONTROL VALVE
A	AMPERES OR AMPER, OR AERATOR	FDR	FEEDER
AC	ABOVE COUNTER	FE	FLOW ELEMENT
ACS	ACCESS CONTROL STATION	FI	FLOW INDICATOR
AF	AMPERE FUSE	FIT	FLOW INDICATING TRANSMITTER
AFF	ABOVE FINISHED FLOOR TO CENTERLINE	FMCP	FIRE ALARM & MASS NOTIFICATION CONT
AFG	ABOVE FINISHED GRADE TO CENTERLINE	PANEL	
AHJ	AUTHORITY HAVING JURISDICTION	FO	FIBER OPTIC
AHU	AIR HANDLING UNIT	FQI	FLOW TOTALIZER
AI	ANALOG INPUT	FT	FLOW TRANSMITTER
AJ	ANALYSIS INDICATOR	FV	FLOW VALVE
AIC	AMPERES INTERRUPTING CURRENT	FVR	FULL VOLTAGE REVERSING
AIL	AMBER INDICATING LIGHT	G	GROUND
AIR	ANALYSIS INDICATING RECORDER	GB	GROUND BUS
AIT	ANALYSIS INDICATING TRANSMITTER	GC	GENERAL CONTRACTOR
AL	ALUMINUM	GEN	GENERATOR
ALT	ALTERNATE OR ALTERNATOR	GFCI	GROUND-FAULT CIRCUIT INTERRUPTER
AM	AMMETER	GF1	GROUND-FAULT INTERRUPTING
AMP	AMPERE	GFP	GROUND-FAULT PROTECTION OF EQUIP
ANN	ANNUNCIATOR	GIL	GREEN INDICATING LIGHT
AO	ANALOG OUTPUT	GND	GROUND
AS	AMMETER SWITCH	GRP	GROUP
AS	AMPERE SWITCH	GRS	GALVANIZED RIGID STEEL
ATS	AUTOMATIC TRANSFER SWITCH	H	HORN OR HIGH
AUTO	AUTOMATIC	HC	HAND CONTROL
AUX	AUXILIARY	HH	HANDHOLE
AWG	AMERICAN WIRE GAUGE	HI	HIGH
BAS	BUILDING AUTOMATION SYSTEM	HOA	HAND-OFF-AUTO
BC	BARE COPPER	HP	HORSEPOWER
BKR	CIRCUIT BREAKER	HPS	HIGH PRESSURE SODIUM
BLDG	BUILDING	HA	HAND RESET OR HOUR
C	CONDUIT	HS	HAND SWITCH
CAT	CATEGORY	HTR	HEATER
CB	CIRCUIT BREAKER	HZ	HERTZ
CH	COUNTER HEIGHT	I	INTERLOCK
CHG	CHARGER-BATTERY	I/O	INPUT/OUTPUT
CKT	CIRCUIT OR CIRCUIT BREAKER	IC	ISOLATION CONTACTOR
CNTL	CONTROL	IDS	INTRUSION DETECTION SYSTEM
CP	CONTROL PANEL	IG	ISOLATED GROUND
CR	CONTROL RELAY OR CORROSION RESISTANT	INST	INSTANTANEOUS
CSI	CONTROL SYSTEM INTEGRATOR	INT	INTERVAL TIMER
CT	CURRENT TRANSFORMER	INTLK	INTERLOCK
CU	COPPER OR CONDENSING UNIT	IO	INPUT/OUTPUT
DB	DUCT BANK	ISP	INSTRUMENT AND SAMPLE PANEL
DI	DISCRETE INPUT	J	JUNCTION BOX
DIAG	DIAGRAM	JB	JUNCTION BOX
DISC	DISCONNECT	K	KEY
DN	DOWN	KCMIL	THOUSAND CIRCULAR MILS
DO	DISCRETE OUTPUT	KV	KILOVOLTS
DP	DISTRIBUTION PANEL	KVA	KILOVOLT-AMPERES
DS	DISCONNECT SWITCH	KVAR	KILOVAR (REACTIVE KILOVOLT-AMPERE
DWG(S)	DRAWING(S)	KW	KILOWATTS
EC	ELECTRICAL CONTRACTOR	KWH	KILOWATT HOUR
ECU	ENERGY CONTROL UNIT	KY	TIME RELAY
EF	EXHAUST FAN	LAH	HIGH LEVEL ALARM
EH	ELECTRIC HEATER	LAL	LOW LEVEL ALARM
EL	ELEVATION	LC/C	LIGHTING CONTROL / CONTACTOR
EMER	EMERGENCY	LCP	LOCAL CONTROL PANEL
EMT	ELECTRICAL METALLIC TUBING	LCV	LEVEL CONTROL VALVE
ENCL	ENCLOSURE	LET	LEVEL ELEMENT TRANSMITTER
ENET	ETHERNET	LF	LINEAR FEET
EP OR E	EXPLOSION PROOF	LI	LEVEL INDICATOR
EQUIP	EQUIPMENT	LIC	LEVEL INDICATING CONTROLLER
ETM	ELAPSED TIME METER	LIR	LEVEL INDICATING RECORDER
ETR	EXISTING TO REMAIN	LLH	HIGH LEVEL LAMP
EUH	ELECTRIC UNIT HEATER	LM	LUMEN
EWB	ELECTRIC WATER HEATER	LOR	LOCAL-OFF-REMOTE
EX	EXISTING DEVICE TO REMAIN	LOS	LOCK-OUT STOP
EXST	EXISTING	LP	LIGHTING PANEL
EXT	EXTERIOR	LR & L	LATCHING RELAY
EXTN	EXTENSION	LS	LEVEL SWITCH
FA	FIRE ALARM	LSH	HIGH LEVEL SWITCH
FACP	FIRE ALARM CONTROL PANEL	LSH	LEVEL SWITCH HIGH
FAH	FLOW ALARM HIGH	LSHL	HIGH/LOW LEVEL SWITCH

- | | | | |
|------------------|---|--------|--|
| SG | LONG, SHORT, INSTANTANEOUS, GROUND | R | RED, RELAY, OR RUN |
| LSL | LOW LEVEL SWITCH | REC | REFLECTED CEILING PLAIN |
| LT | LEVEL TRANSMITTER | RE | RELOCATE DEVICE INDICATED |
| LT | LEVEL TRANSMITTER OR LIGHT | REC | RECEPTACLE |
| LTfMC | LIQUID TIGHT FLEXIBLE METAL CONDUIT | RECEPT | RECEPTACLE |
| LTG | LIGHTING | REF | REFERENCE |
| LTS & LTS | LIGHTING AND LIGHTS | RGA | RIGID GALVANIZED ALUMINUM |
| LV | LOW VOLTAGE | RGS | RIGID GALVANIZED STEEL |
| LY | LEVEL RELAY | RL | RED INDICATING LIGHT |
| M | MOTOR STARTER COIL OR CYCLE TIMER | RIO | REMOTE I/O PANEL |
| mA | MILLIAMPERES | RM | ROOM |
| MADC | DIRECT CURRENT MILLIAMPERES | RP | REPLACE |
| MAN | MANUAL | RTD | RESISTANCE TEMPERATURE DETECTOR |
| MAX | MAXIMUM | RTM | RUNNING TIME METER |
| MCB | MAIN CIRCUIT BREAKER | RTU | REMOTE TELEMETRY UNIT |
| MCC | MOTOR CONTROL CENTER | RVNR | REDUCED VOLTAGE, NON REVERSING |
| MCM | THOUSAND CIRCULAR MILS | RVS | REDUCED VOLTAGE STARTER |
| MCP | MAIN CONTROL PANEL | RVSS | REDUCED VOLTAGE SOFT STARTER |
| MCP | MOTOR CIRCUIT PROTECTOR | S | START CONTACTOR OR VALVE |
| MDP | MAIN DISTRIBUTION PANEL | 5, SEC | SECOND |
| MH | MANHOLE | S2 | NEMA SIZE 2 STARTER |
| MIN | MINUTE, MINIMUM | SC | SPEED CONTROL |
| MIN | MINUTES OR MINIMUM | SEC | SECONDARY OR SECONDS |
| MLO | MAIN LUGS ONLY | SEL | SELECTOR |
| MM | MULTIMODE | SE | SERVICE ENTRANCE RATED |
| MPZ | MINI POWER ZONE | SH | SHEET OR SHIELDED |
| MS | MAGNETIC STARTER | SM | SINGLE MODE |
| MS | MANUAL MOTOR STARTER | SPD | SURGE PROTECTION DEVICE |
| MTR, M | MOTOR | SPEC | SPECIFICATION |
| MTS | MANUAL TRANSFER SWITCH | SS | SELECTOR SWITCH OR STAINLESS STEEL |
| mV | MILLIVOLTS | SSSS | SOLID STATE SOFT START |
| N | NEUTRAL | STP | SHIELDED TWISTED PAIR |
| N/A | NOT APPLICABLE | SV | SOLENOID VALVE |
| N1 | NEMA 1 ENCLOSURE | SWBD | SWITCHBOARD |
| N12 | NEMA 1 ENCLOSURE | T | THERMOSTAT |
| N3R | NEMA 3R ENCLOSURE | TB | TERMINAL BOX, TERMINAL BLOCK |
| NA | NON-AUTO | TD | TIME DELAY RELAY |
| NC | NORMALLY CLOSED | TEL | TELEPHONE |
| NEC | NATIONAL ELECTRICAL CODE | TI | TEMPERATURE INDICATOR |
| NEMA ASSOCIATION | NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION | TO | TIME DELAY OPENING CONTACT OR THERMAL OVERLOAD |
| NEUT | NEUTRAL | TOA | TEST-OFF-AUTO |
| NF | NON-FUSED | TSP | TWISTED SHIELDED PAIR |
| NFPA | NATIONAL FIRE PROTECTION ASSOCIATION | TVSS | TRANSIENT VOLTAGE SURGE SUPPRESSION |
| NO | NORMALLY OPEN | TYP | TYPICAL |
| NO. | NUMBER | UA | COMMON ALARM |
| NP | NAMEPLATE | UE | UNDERGROUND ELECTRIC |
| NTS | NOT TO SCALE | UG | UNDERGROUND |
| OC | OPEN/CLOSE | UL | UNDERWRITERS LABORATORIES |
| OL | OVERLOAD | UNO | UNLESS NOTED OTHERWISE |
| OL | OVERLOAD-RELAY | UDN | UNLESS OTHERWISE NOTED |
| OO | ON-OFF | UP | UTILITY POWER |
| OODR | ON-OFF RESET | UPS | UNINTERRUPTIBLE POWER SUPPLY |
| OUT | OUTPUT | UT | UNDERGROUND TELECOMMUNICATIONS |
| P&ID | PROCESS & INSTRUMENTATION DIAGRAM | V | VOLTS |
| PC | PHOTOELECTRIC CELL | VA | VOLT AMPS |
| PCV | PRESSURE CONTROL VALVE | VAC | VOLTS ALTERNATING CURRENT |
| PDT | DIFFERENTIAL PRESSURE TRANSMITTER | VDC | VOLTS DIRECT CURRENT |
| PE | PHOTOELECTRIC CELL | VFD | VARIABLE FREQUENCY DRIVE |
| PE | PRESSURE ELEMENT | VM | VOLTMETER |
| PH | PHASE | W | WIRE, WATTS |
| PI | PRESSURE INDICATOR | W/ | WITH |
| PIT | PRESSURE INDICATING TRANSMITTER | W/O | WITHOUT |
| PLC | PROGRAMMABLE LOGIC CONTROLLER | WAP | WIRELESS ACCESS PORT |
| PM | PHASE MONITOR | WI | WEIGHT INDICATOR |
| PMP | PUMP | WP | WEATHERPROOF |
| PNL | PANEL | XFMR | TRANSFORMER |
| PDE | POWER OVER ETHERNET | XLP | CROSS-LINKED POLYETHYLENE |
| PP | POWER PANEL | XP | EXPLOSION-PROOF |
| PR | SHIELDED PAIR | YC | STATUS CONTROL |
| PR | PRIMARY | YL | STATUS INDICATION |
| PSH | PRESSURE SWITCH HIGH | ZS | POSITION SWITCH |
| PSI | POUNDS PER SQUARE INCH | ZSC | POSITION SWITCH CLOSED |
| PSL | PRESSURE SWITCH LOW | ZSO | POSITION SWITCH |
| PVC | POLYVINYL CHLORIDE CONDUIT | | |

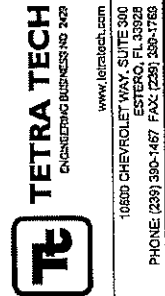
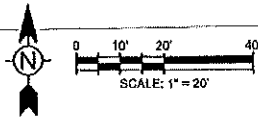
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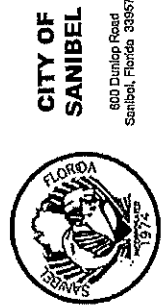
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ELECTRICAL SITE PLAN
SCALE: 1"=20' (22X34) 1"=40' (11X17)



BID SET



MARK	DATE	DESCRIPTION

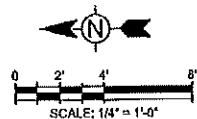
CITY OF SANIBEL, FLORIDA
DONAX WATER RECLAMATION FACILITY
POST HURRICANE REPAIRS & HARDENING
OVERALL ELECTRICAL PLAN

Project No: 200-08498-25001
Designed By: JAS
Drawn By: JAS
Checked By: JDM

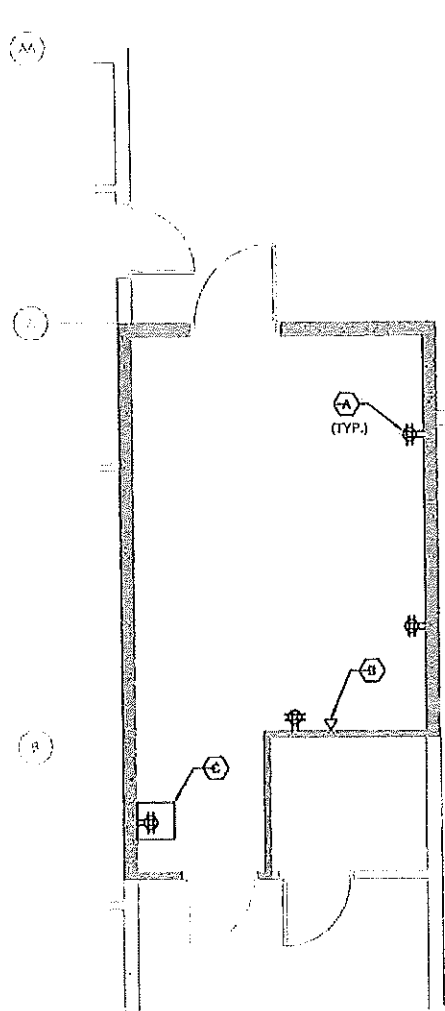
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Bar Measures 1 inch

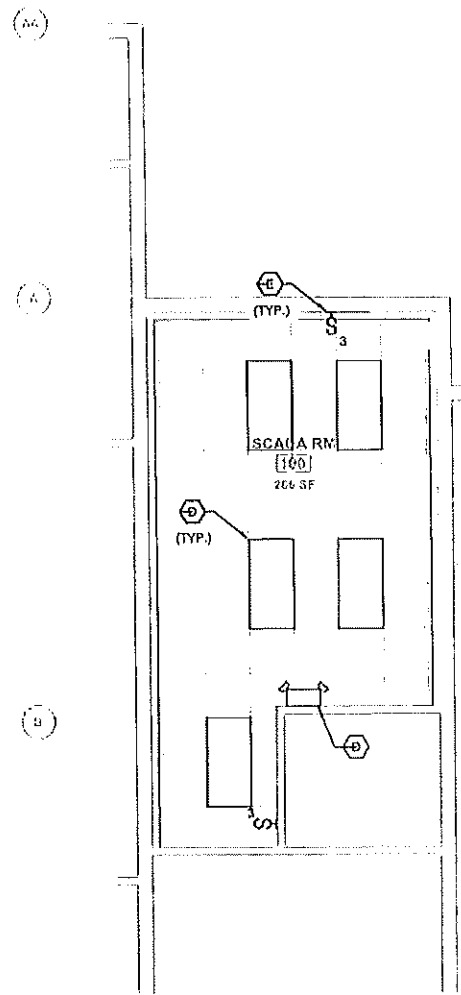
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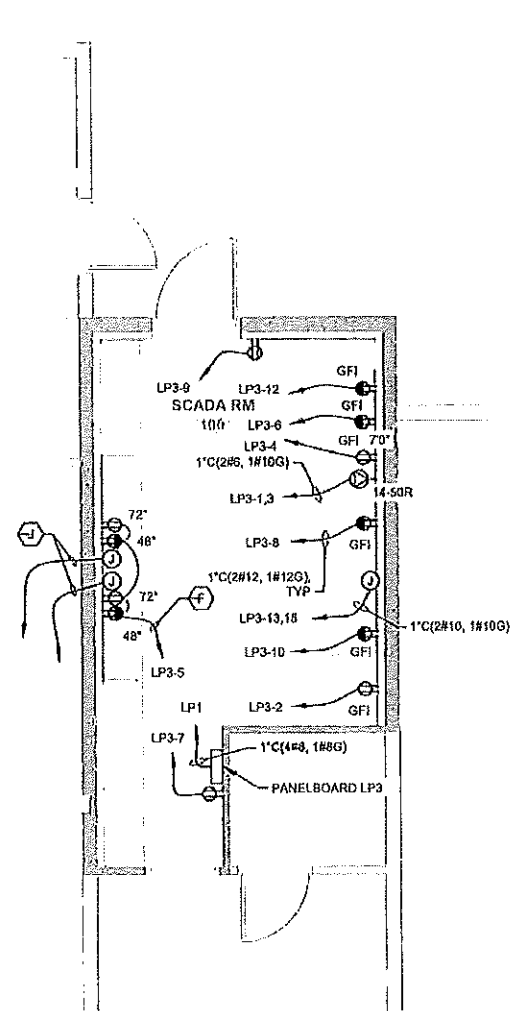
**SCADA ROOM
POWER DEMOLITION PLAN**
SCALE: 1/4" = 1'-0"



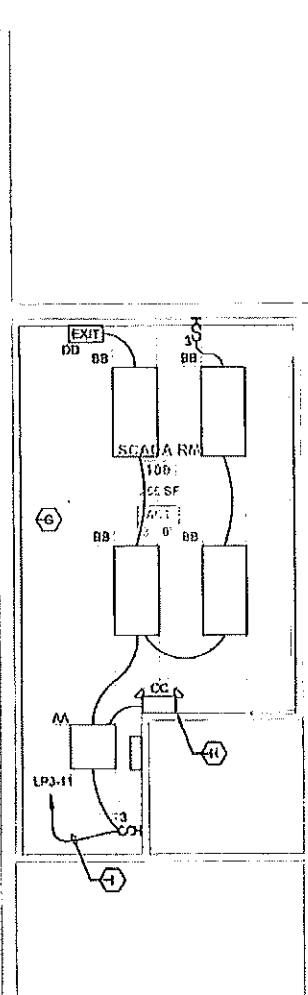
**SCADA ROOM
LIGHTING DEMOLITION PLAN**
SCALE: 1/4" = 1'-0"



**SCADA ROOM
POWER PLAN**
SCALE: 1/4" = 1'-0"

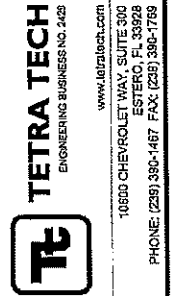


**SCADA ROOM
LIGHTING PLAN**
SCALE: 1/4" = 1'-0"



NOTES:
1. SEE LIGHTING SCHEDULE ON SHEET E-9002.

- KEY NOTES:
- A. DISCONNECT AND REMOVE RECEPTACLES WITHIN SCADA ROOM REMOVE EXPOSED CONDUITS AND CONDUCTORS BACK TO PANEL FEEDING BRANCH CIRCUIT.
 - B. REMOVE PRINTER ETHERNET CONNECTION PORT. CONTRACTOR TO COORDINATE WITH OWNER RELOCATION OF PRINTER.
 - C. NETWORK RACK TO BE TEMPORARILY RELOCATED DURING CONSTRUCTION. COORDINATE WITH OWNER LOCATION.
 - D. DISCONNECT AND REMOVE LIGHTING WITHIN SCADA ROOM. REMOVE CONDUITS ABOVE CEILING AND CONDUCTORS BACK TO PANEL FEEDING BRANCH CIRCUIT.
 - E. DISCONNECT AND REMOVE LIGHTING SWITCHES.
 - F. PROVIDE 3/4" C(2#12, 1#12G) FOR BRANCH CIRCUITS UNLESS OTHERWISE NOTED.
 - G. PROVIDE LIGHTING PER LIGHTING SCHEDULE.
 - H. CONNECT EMERGENCY LIGHT TO UNSWITCHED SIDE OF LIGHTING CIRCUIT.
 - I. PROVIDE 3/4" C(2#12, 1#12G) FOR BRANCH CIRCUITS. PROVIDE ADDITIONAL #12 CONDUCTORS AS NECESSARY FOR SWITCHES AND LIGHTING TO OPERATE.
 - J. PROVIDE 1 25°C FROM JUNCTION BOX BEHIND TVS TO ABOVE DROP CEILING.



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**CITY OF
SANIBEL**
800 Dunlap Road
Sanibel, Florida 33957



MARK	DATE	DESCRIPTION	BY

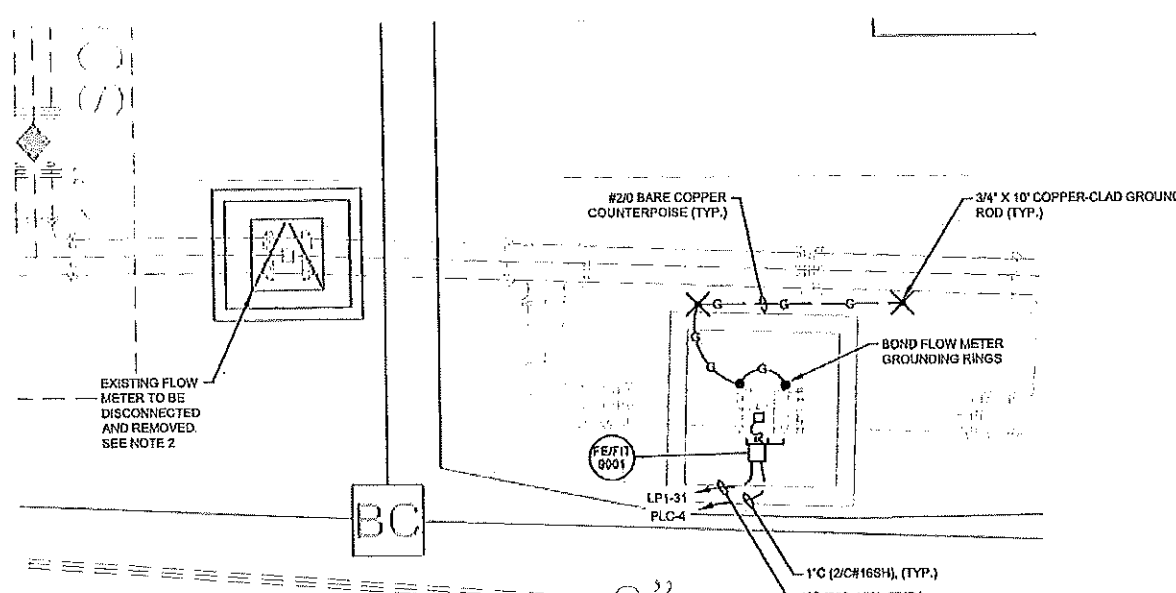
CITY OF SANIBEL, FLORIDA
DONAX WATER RECLAMATION FACILITY
POST HURRICANE IAN REPAIRS & HARDENING
SCADA ROOM
ELECTRICAL PLAN

Project No.: 200-08498-25001
Designed By: JAS
Drawn By: JAS
Checked By: JOM

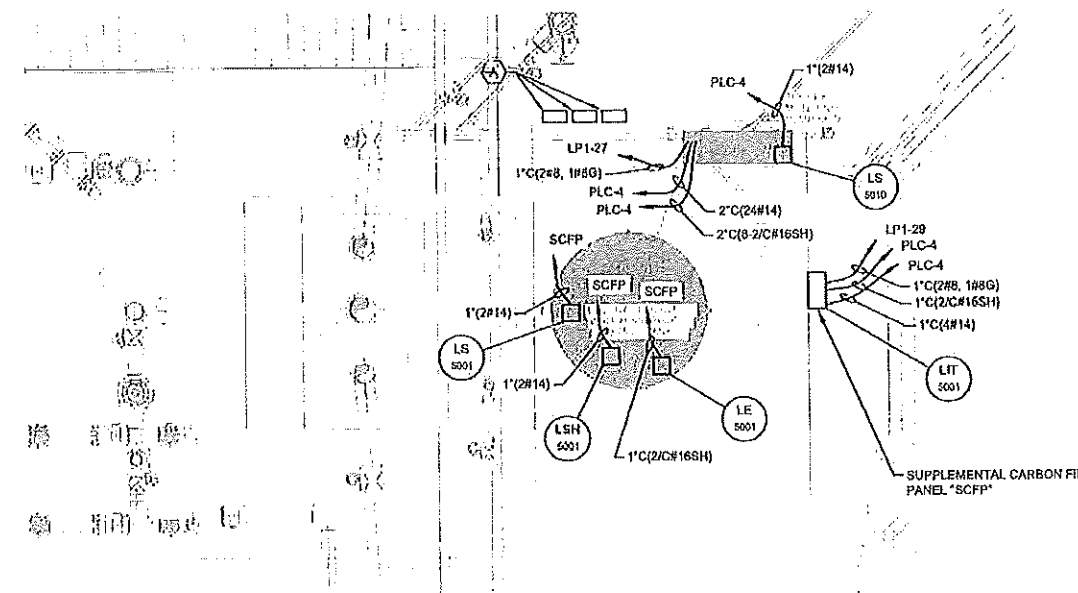
E-0102

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Bar Measures 1 inch



1
-
FLOW METER BYPASS
ELECTRICAL PLAN
SCALE: 1"=5' (22X34) 1"=10' (11X17)



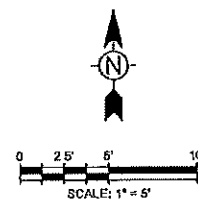
2 SUPPLEMENTAL CARBON ELECTRICAL PLAN
SCALE: 1"=5' (22X34) 1"=10' (11X17)

- NOTES:

1. UNIONS BELOW GRADE SHALL BE EXOTHERMICALLY CONNECTED. UNIONS ABOVE GRADE SHALL BE MECHANICALLY CONNECTED. APPLY SILICON SPRAY TO PROTECT MECHANICAL CONNECTIONS.
2. CONTRACTOR MAY UTILIZE AND EXTEND EXISTING CONDUITS FROM PREVIOUS FLOW METER TO NEW FLOW METER. IF EXISTING CONDUITS ARE UTILIZED CONTRACTOR SHALL PROVIDE CITY CREDIT FOR WORK NOT TO RUN ALL NEW CONDUITS IN DUCTBANK DIRECTLY FROM ELECTRICAL ROOM.

- ### KEY NOTES :

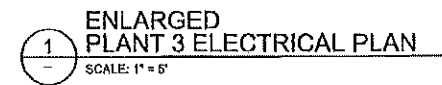
- A. PROVIDE NEMA 4X, 316 TERMINAL BOX WITH TERMINAL BLOCKS, PROVIDE THREE TOTAL. ONE FOR POWER, DIGITAL COMM, ANALOG COMM. ROUTE CIRCUITS FROM CARBON SYSTEMS THROUGH RESPECTIVE TERMINAL BOXES.

[illegible]

CITY OF SANIBEL, FLORIDA
DONAX WATER RECLAMATION FACILITY
POST HURRICANE JAN REPAIRS & HARDENING
ENLARGED FLOW METER
AND CARBON SYSTEM
ELECTRICAL PLAN

Project No:	200-08498-25001
Designed By:	JAS
Drawn By:	JAS
Checked By:	JOM

E-0103
Steel

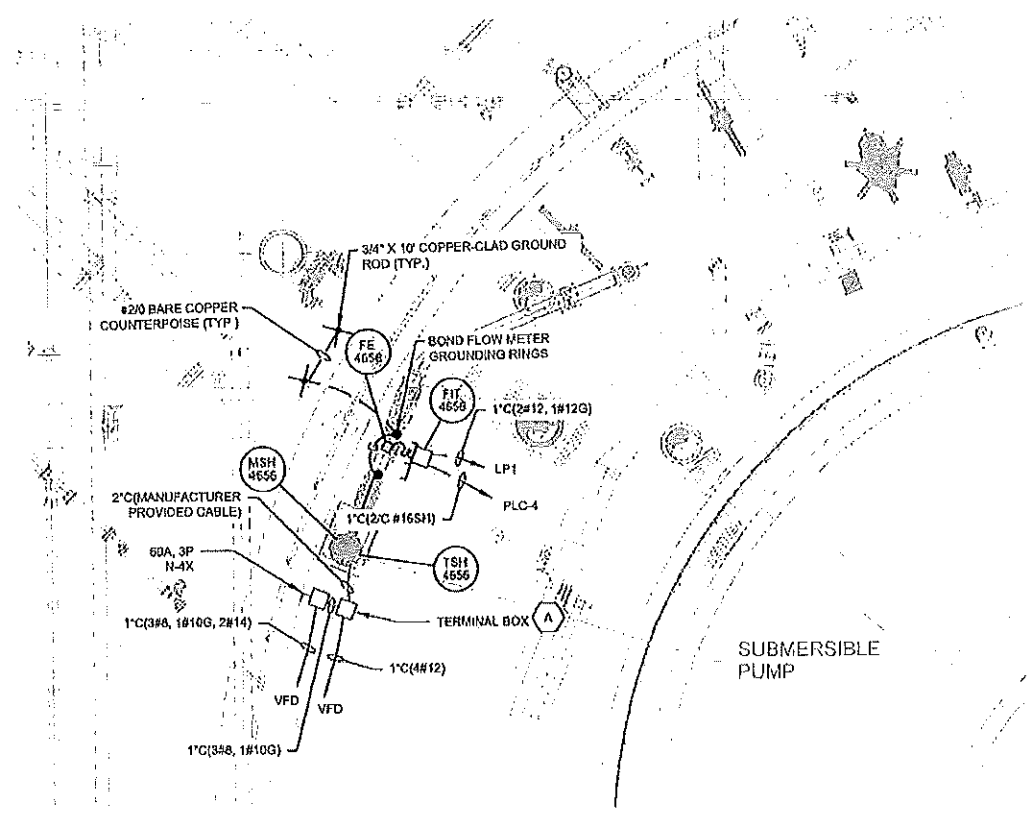


0 5' 10' 20' SCALE: 1" = 10'

0 2.5' 5' 10' SCALE: 1" = 5'

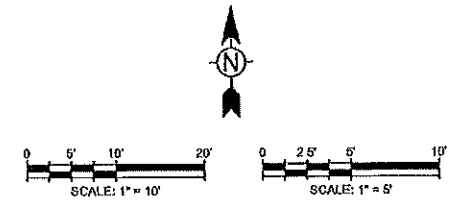
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1/11/2025 9:31:45 AM - C:\ADAC\DCS\TETRA TECH\INC200-08498-25001 DONAX WRF POST\AN\PROJECT FILES\CAD\SHEETFILES-E-0105 PLANT NO. 2 ELECTRICAL PLAN.DWG - SEIGNORET, JASON



1 ENLARGED PLANT 2 ELECTRICAL PLAN
SCALE: 1" = 6'

- KEY NOTES:
- A PROVIDE NEMA 4X, 316 TERMINAL BOX WITH TERMINAL BLOCKS AND POWER DISTRIBUTION BLOCKS.



TETRA TECH
TWO METERS ENGINEERING, INC.
WWW.TETRA-TECH.COM
10600 CHEVROLET WAY, SUITE 300
FORT WORTH, TEXAS 76116
PHONE: (817) 390-1487 FAX: (817) 390-1768

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400 Duiker Road
Sanibel, Florida 33957

MARK	DATE	DESCRIPTION	BY

CITY OF SANIBEL, FLORIDA
DONAX WATER RECLAMATION FACILITY
POST HURRICANE TANI REPAIRS & HARDENING

**PLANT NO. 2
ELECTRICAL PLAN**

Project No.: 200-08498-25001
Designed By: JAS
Drawn By: JAS
Checked By: JDM

E-0105
Sheet

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Bar Measures 1 inch

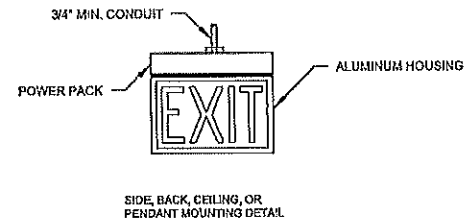
 DARK LINE WEIGHT INDICATES NEW TO BE PROVIDED AND INSTALLED
 LIGHT LINE WEIGHT INDICATES EXISTING TO REMAIN AND BE RE-FED FROM NEW MCC-1.

SEE NOTE 5

[illegible]

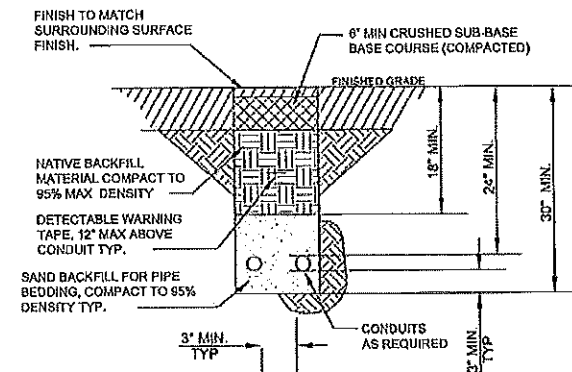
1) EXIT SIGN DETAIL

SCALE: NTS



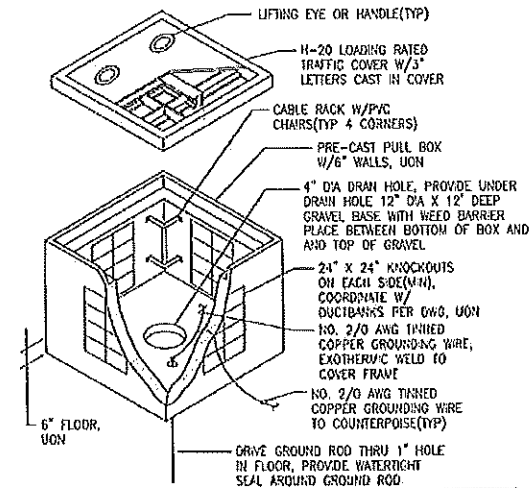
2) TRENCHING DETAIL

SCALE: NTS



(3) HAND HOLE DETAIL

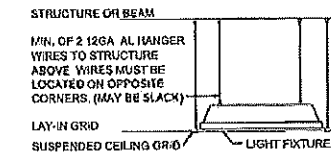
SCALE-NTS



TYPE	INTERIOR DIMS	OLDEST PRODUCT NO.	REMARK
A	24"x24"x48"H	T21 VAULT	12"x12" KNOCKOUT; 4" WALLS
B	36x36"x48"H	T43 VAULT	24"x24" KNOCKOUT; 6" WALLS
C	48"x48"x48"H	46x48 VAULT	30"x30" KNOCKOUT; 6" WALLS
D	72"x72"x60"H	60x60 VAULT	48"x48" KNOCKOUT; 6" WALLS

4 GRID MOUNT LIGHTING DETAIL

SCALE: NT9



5 LIGHTING FIXTURE SCHEDULE

SCALE: NTS

LUMINAIRE SCHEDULE							
SYMBOL	DESCRIPTION	MOUNTING	LAMPS			MANUFACTURERS (OR EQUAL)	
			NO	WATTAGE	TYPE	NAME	MODEL OR SERIES
AA 	2X4 TROFFER	GRID	1		LED	LITHONIA .	2AVL4 AV LED 2X4 SOLSE -EZ1 LP835
BB 	2X2 TROFFER	GRID	1		LED	LITHONIA .	2AVL2 AV LED 2X2 30LSE -EZ1 LP835
CC 	EMERGENCY LIGHT UNIT, WALL MOUNTED, SEALED & GASKETED ENCLOSURE 90 MINUTE MINIMUM BATTERY CAPACITY	SURFACE	2	65W	LED	LITHONIA .	ELM4L
DD 	EXIT LIGHT	SURFACE	1	32W	LED	LITHONIA .	LQC-W-1-R-EL N .

TETRA TECH
ENGINEERING BUSINESS NO. 2429

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Sanibel, Florida 33957

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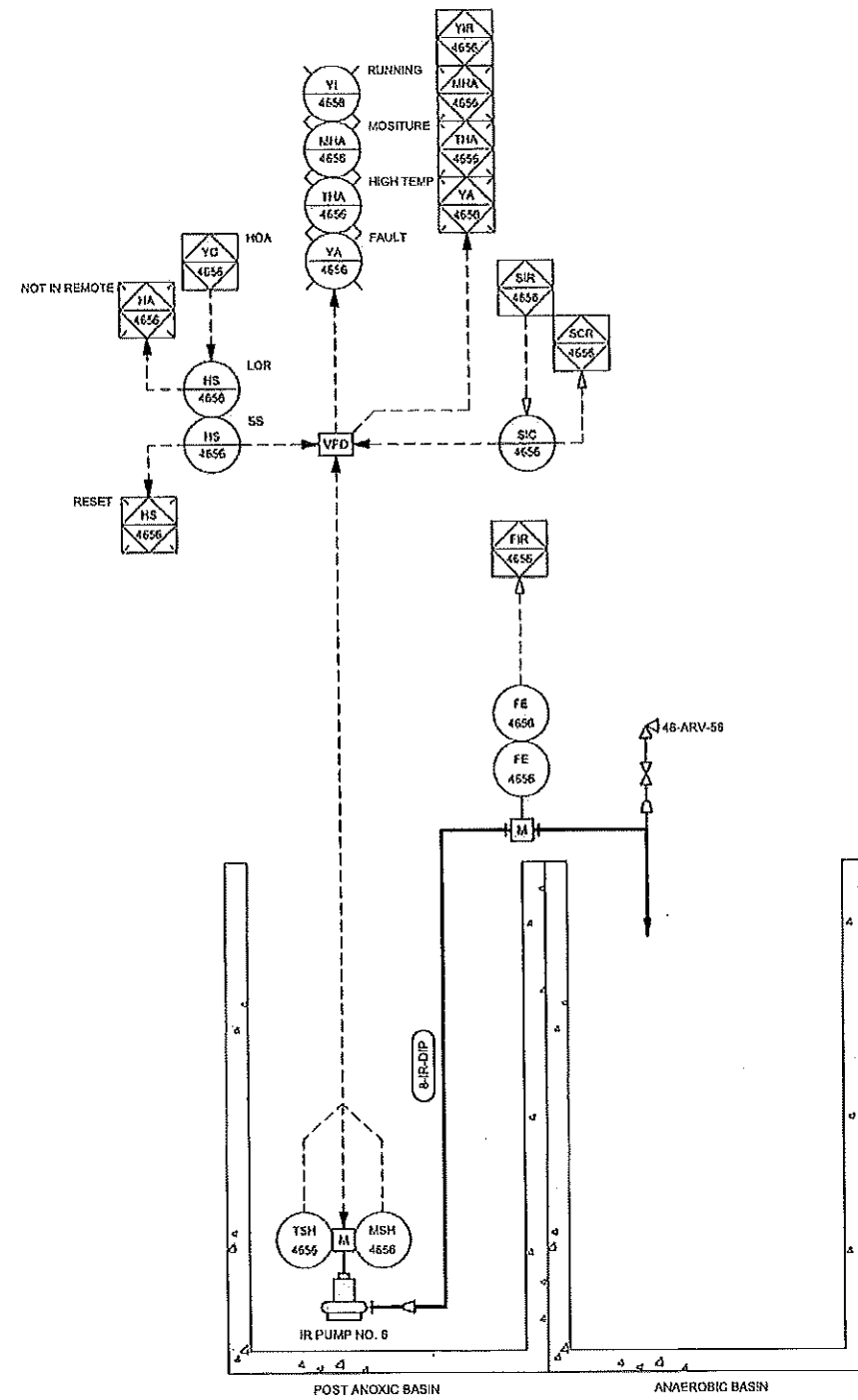
CITY OF SANIBEL, FLORIDA
DONAX WATER RECLAMATION FACILITY
POST HURRICANE IAN REPAIRS & HARDENING
ELECTRICAL DETAILS

Project No.:	200-08498-25001
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

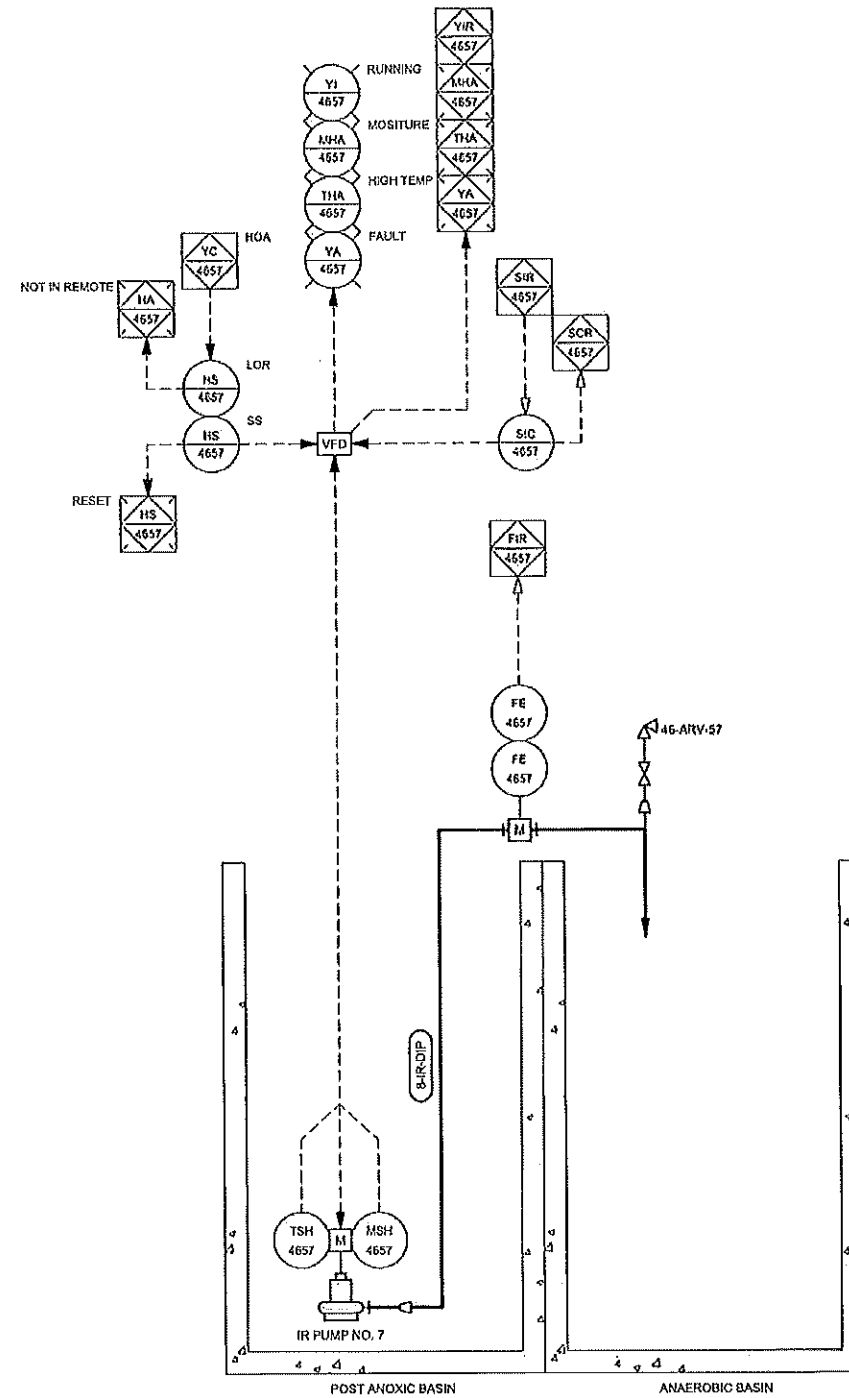
E-9002

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Bar Measures 1 inch



PLANT NO. 2



PLANT NO. 3



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CITY OF SANIBEL, FLORIDA
DONAX WATER RECLAMATION FACILITY
POST HURRICANE IAN REPAIRS & HARDENING

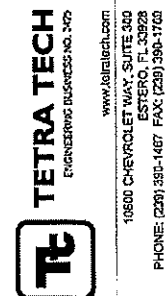
IRP&D

Project No :	200-08498-25001
Designed By:	REED
Drawn By:	REED
Checked By:	

I-2001

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

Bar Measures 1 inch



**CITY OF
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200 Dunlap Road
Sanibel, Florida 33957

[illegible]

CITY OF SANIBEL, FLORIDA
DONAX WATER RECLAMATION FACILITY
POST HURRICANE IAN REPAIRS & HARDENING
SUPPLEMENTAL CARBON
STORAGE & METERING P&ID

Project No.:	200-08183-2500
Designed By:	REE
Drawn By:	REE
Checked By:	

1-2002



- TETRA TECH**
ENGINEERING BUSINESS NO. 249
www.tetratech.com
10600 CHEVROLET WAY, SUITE 300
ESTERO, FL 33428
PHONE: (239) 390-1467 FAX: (239) 390-1769

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Sanibel, Florida 33957

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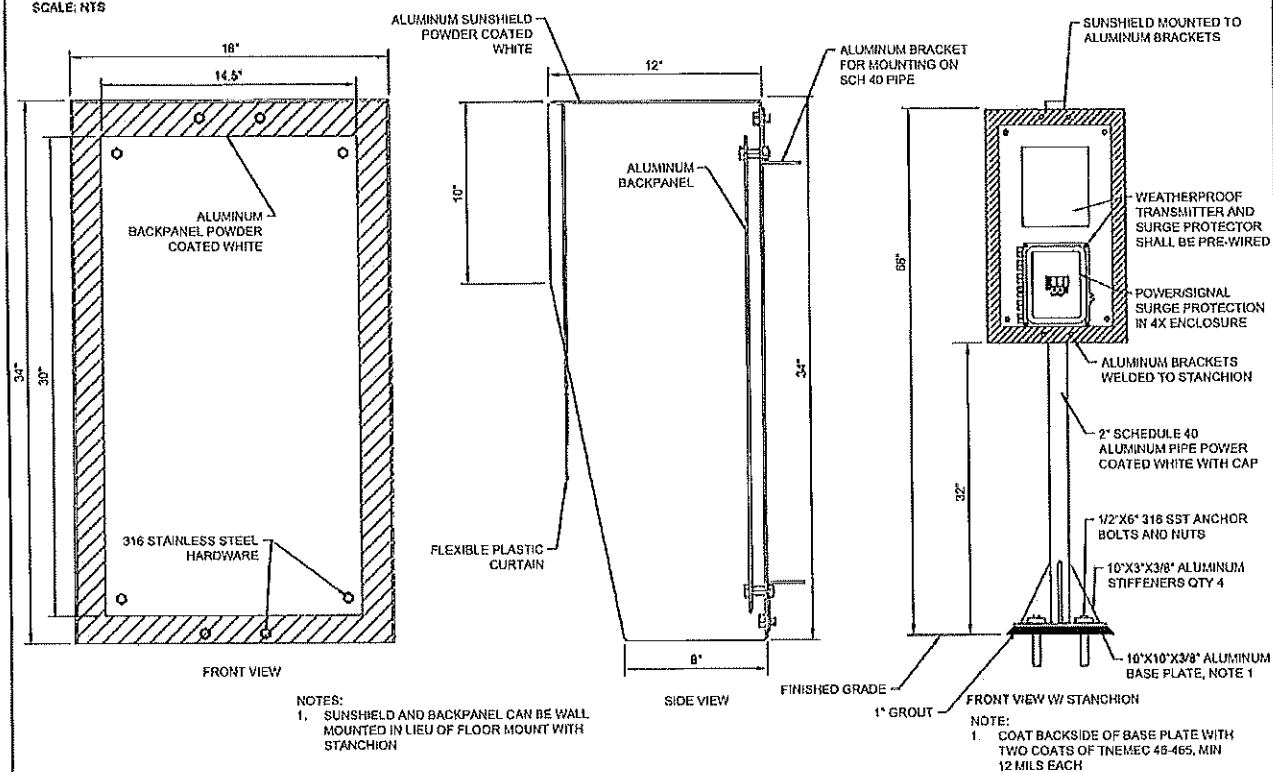
CITY OF SANIBEL, FLORIDA
DONAX WATER RECLAMATION FACILITY
POST HURRICANE JAN REPAIRS & HARDENING
SUPPLEMENTAL CARBON
FILL STATION
CONTROL PANEL

Project No.:	200-03493-2500
Designed By:	REED
Drawn By:	REED
Checked By:	

I-3001

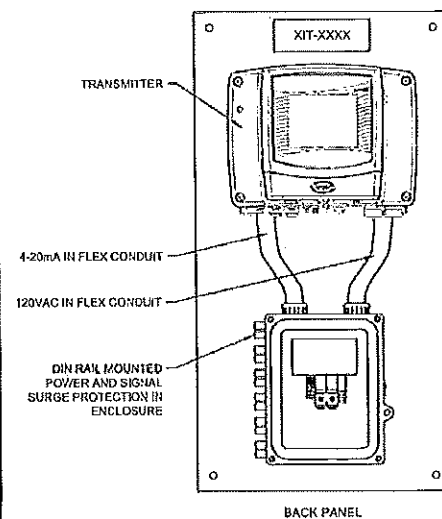
1 BACK PANEL, SUNSHIELD
AND STANCHION DETAIL

SCALE: NYS



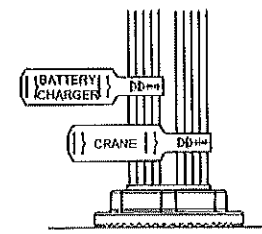
2 TRANSMITTER MOUNTING

SCALE: NT\$



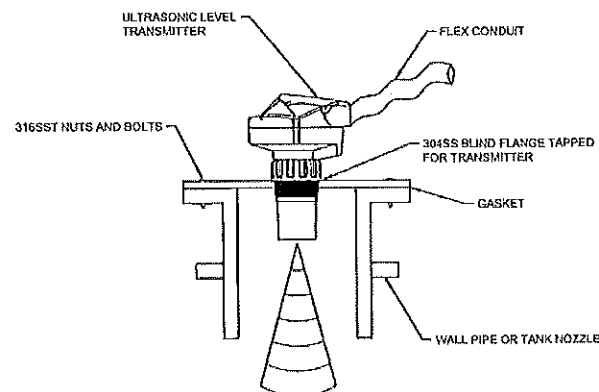
3 WIRE/CABLE BUNDLE TAG

SCALE: NTS



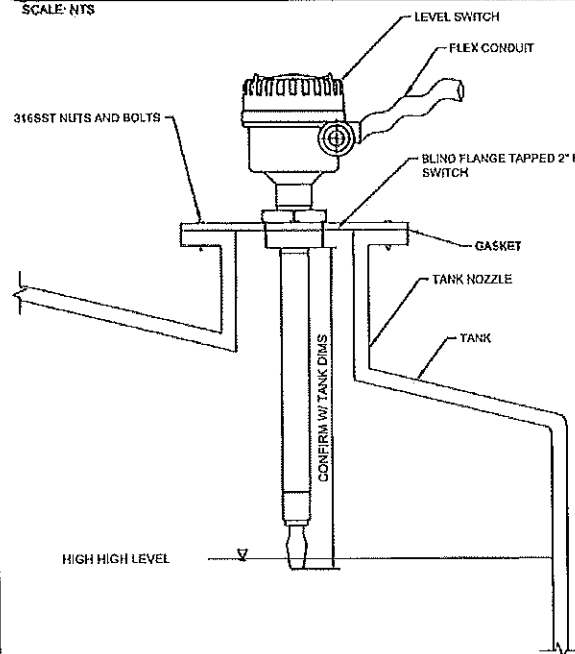
4) ULTRASONIC/RADAR LEVEL

SCALE: NTS



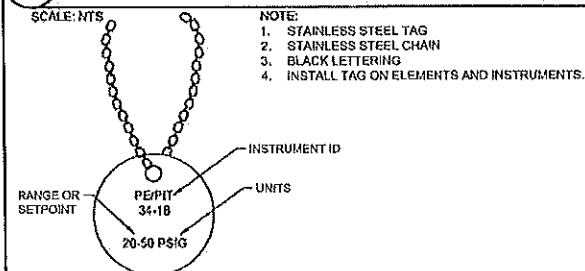
5) VIBRATING FORK TANK LEVEL

SCALE: NTS



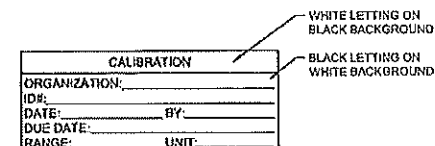
6 INSTRUMENT TAG

SCALE: MTS



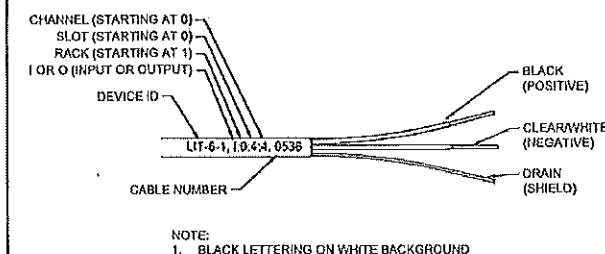
8 INSTRUMENT CALIBRATION

SCALE: NYS



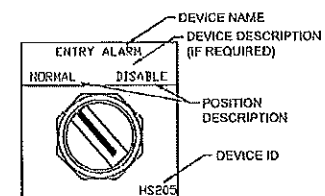
(7) TWO CONDUCTOR CABLE

SCALE 1115



9 PANEL TAG PUSH
BUTTON/SWITCH

SCALE POINTS



NOTE:
1. BLACK LETTERING ON WHITE BACKGROUND

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CITY OF SANIBEL, FLORIDA
DONAX WATER RECLAMATION FACILITY
POST HURRICANE JAN REPAIRS & HARDENING
INSTRUMENTATION DETAILS

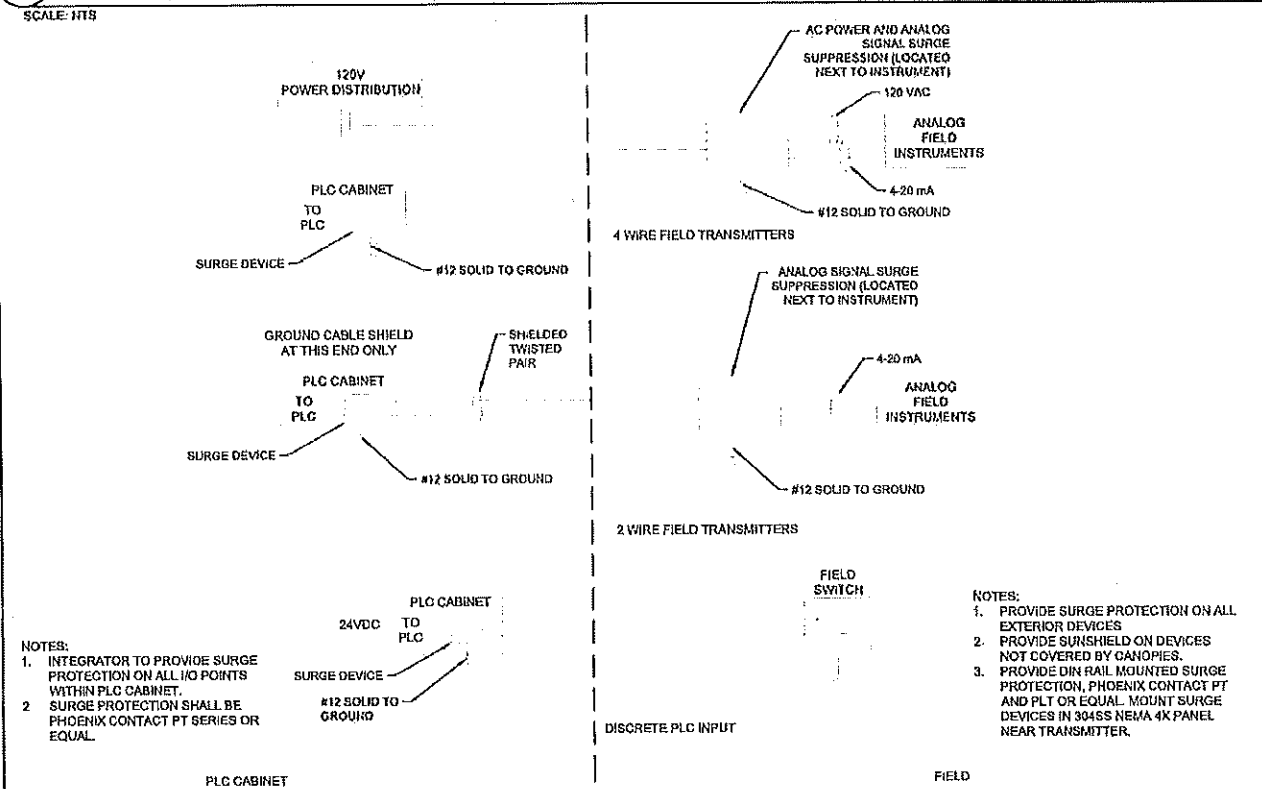
Project No.:	200-08499-28
Designed By:	RE
Drawn By:	RE
Checked By:	

1-5001

Scanned with CamScanner

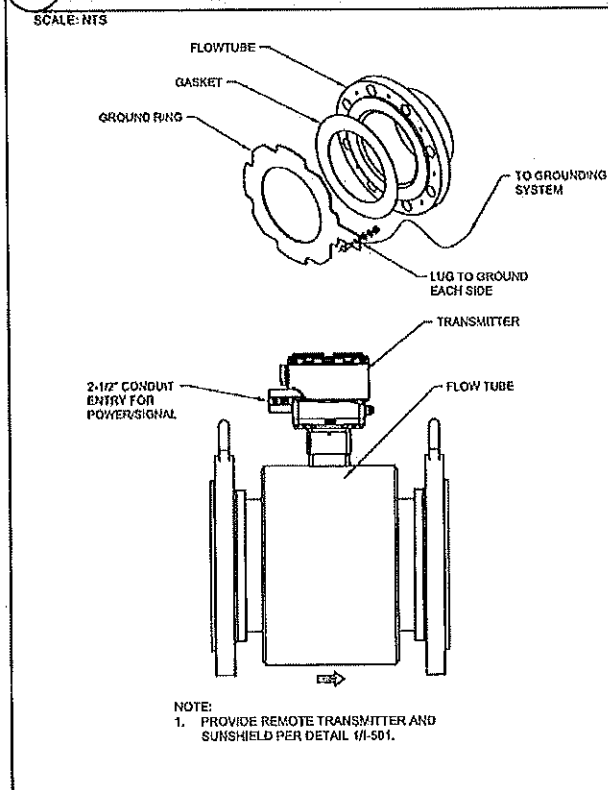
1 ANALOG GROUNDING AND SURGE PROTECTION

SCALE: NTS



2) MAGNETIC FLOW METER:

SCALE: NTS



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ENGINEERING BUSINESS NO. 2402

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CITY OF SANIBEL, FLORIDA
DONAX WATER RECLAMATION FACILITY
POST HURRICANE IAN REPAIRS & HARDENING

INSTRUMENTATION DETAILS

Project No.:	200-09498-25001
Designed By:	REED
Drawn By:	REED
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1-5002

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