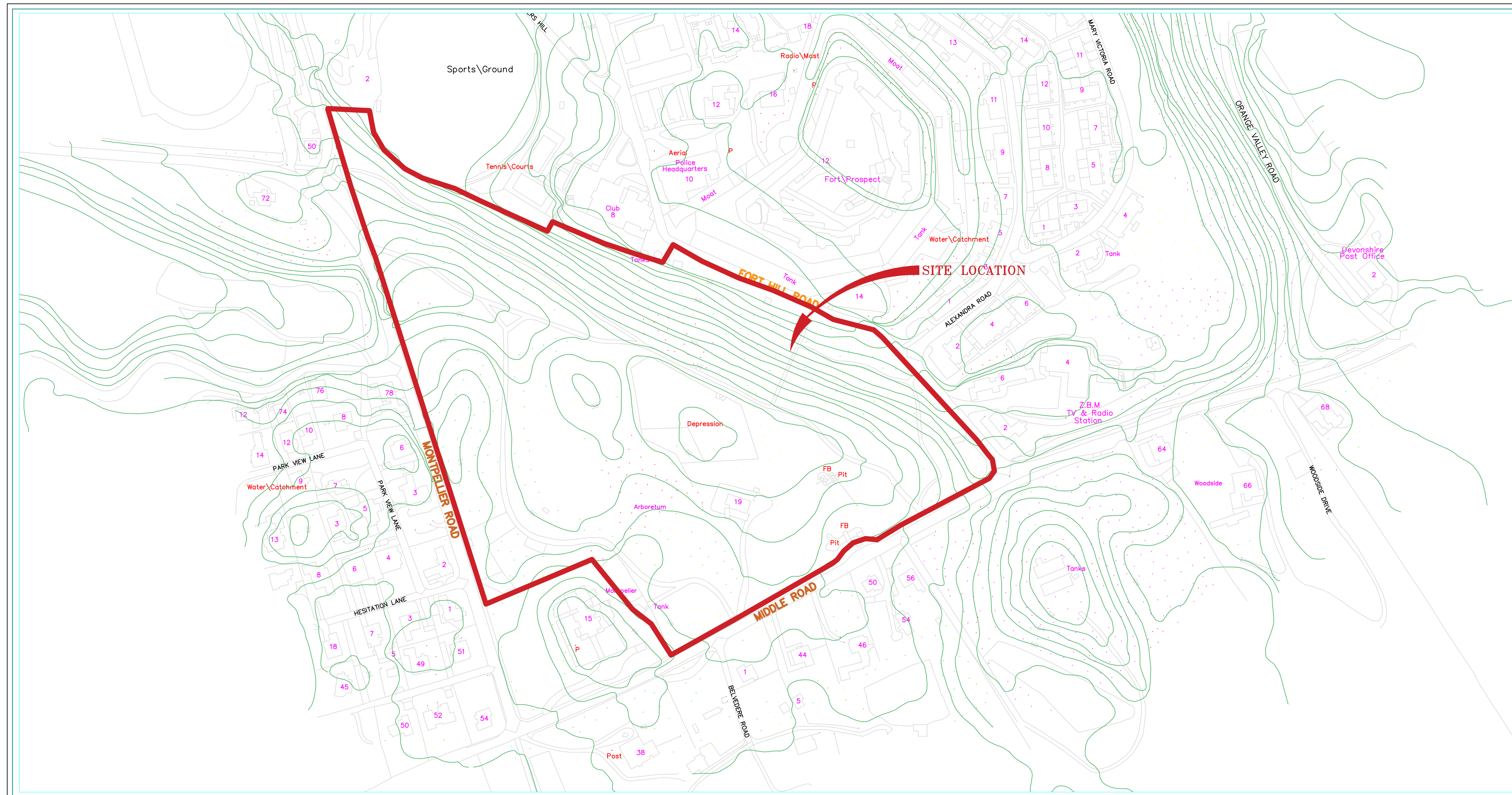




MINISTRY OF PUBLIC WORKS
 FORT PROSPECT CENTRAL AREA PUMP STATION
 Fort Hill Road, Devonshire

DRAWING LIST	
4832/004/03	TOPOGRAPHIC SURVEY
FP01	SITE PLAN ELEVATIONS
FP02	PLANS & SECTIONS
E1	EXISTING CONTROL ROOM LAYOUT
E2	PROPOSED CONTROL ROOM LAYOUT
E3	EXISTING SITE PLAN
E4	PROPOSED SITE PLAN
E5	PUMP STATION ELECTRICAL FLOOR PLANS
E6	EXISTING SINGLE LINE DIAGRAM
E7	PROPOSED SINGLE LINE DIAGRAM
E8	EXISTING SCHEDULES & LEGEND
E9	PROPOSED SCHEDULES/SPECIFICATIONS
E10	ELECTRICAL SPECIFICATIONS



KEY MAP

ISSUED FOR: PLANNING APP 02/01/17

AMENDMENTS:		
NO	REVISION	BY / APP / DATE

SCALE: .

SURVEY
 PREPARED BY: . DATE: .

DESIGN
 PREPARED BY: K CLARIDGE DATE: 02/01/17
 CHECKED BY: . DATE: .

DRAWING
 PREPARED BY: K CLARIDGE DATE: 02/01/17
 CHECKED BY: . DATE: .

APPROVED BY: T. CHRISTOPHER DATE: 02/01/17

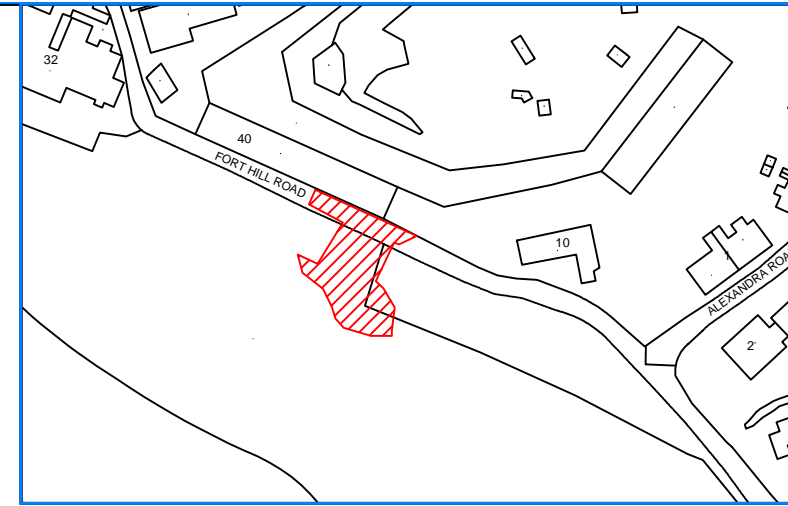
PROJECT NUMBER: .

PROJECT NAME:
**FORT PROSPECT
 CENTRAL AREA
 PUMP STATION**
**FORT HILL ROAD
 DEVONSHIRE PARISH**

SHEET TITLE:
COVER

SHEET NUMBER:
FPO

REVISION



Location Plan Scale 1:2500

GOVERNMENT OF BERMUDA
Ministry of Public Works

Department of Land Surveys & Registration

P.O. Box HM1364 Hamilton HMF Bermuda
Phone: (441) 295-5151 Fax: (441) 295-5658

GENERAL NOTES:

1. SURVEY GRID IS BNG2000.
2. LEVELS ARE IN METRES ABOVE ORDNANCE DATUM.

SURVEY STATION COORDINATES

STN	EASTINGS	NORTHINGS	LEVEL
1	548535.84	133088.02	50.79
2	548519.28	133102.58	52.72
3	548534.99	133120.38	59.19
10	548525.13	133113.07	56.60
93655	548488.36	133147.22	59.48
93656	548585.17	133100.38	58.07

THIS PLAN MUST NOT BE ALTERED IN ANY WAY UNLESS AUTHORIZED BY THE REGISTERED LAND SURVEYOR
ONLY AUTHENTICATED COPIES OF THIS PLAN SHOULD BE USED
© COPYRIGHT - BERMUDA GOVERNMENT

ISSUED FOR:

AMENDMENTS:

NO:	REVISION	APP	DATE:

▲ SITE LIMITS ADDED MAY 2017

SCALE: 1:200

SURVEY PREPARED BY: CD/SM DATE: 24/06/16

DESIGN PREPARED BY: SP DATE: 27/06/16

CHECKED BY: S. PATTERSON DATE: 27/06/16

DRAWING PREPARED BY: CD DATE: 24/06/16

CHECKED BY: SP DATE: 27/06/16

APPROVED BY: S. PATTERSON - SENIOR LAND SURVEYOR

PROJECT NUMBER: 30/241/38 TN80174

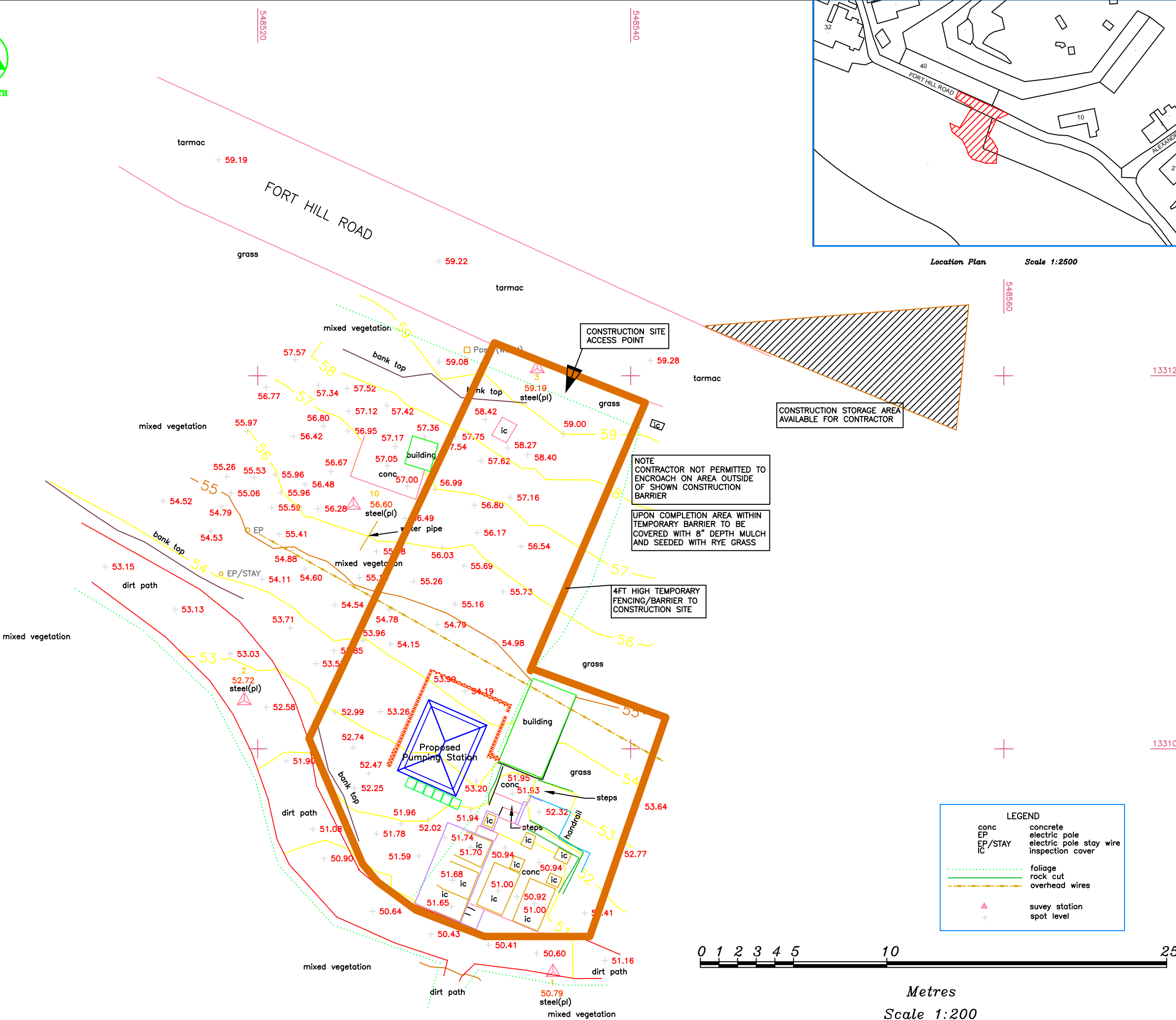
PROJECT NAME: WATER PUMPING STATION

MONTPELIER PARK
FORT HILL ROAD
DEVONSHIRE

DRAWING FILE NO: CIVIL 3D 2011
PIMS\SURVEYPROJECTS\3024138\483200403

SHEET TITLE: TOPOGRAPHIC SURVEY
SITE LIMITS

SHEET NUMBER: 4832/004/03



CONSTRUCTION SITE ACCESS POINT

CONSTRUCTION STORAGE AREA AVAILABLE FOR CONTRACTOR

NOTE CONTRACTOR NOT PERMITTED TO ENCRANCH ON AREA OUTSIDE OF SHOWN CONSTRUCTION BARRIER

UPON COMPLETION AREA WITHIN TEMPORARY BARRIER TO BE COVERED WITH 8" DEPTH MULCH AND SEEDED WITH RYE GRASS

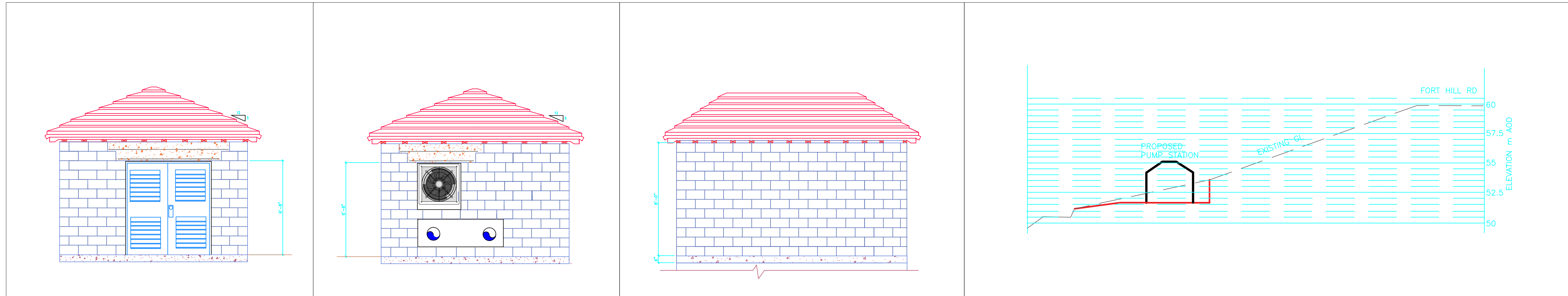
4FT HIGH TEMPORARY FENCING/BARRIER TO CONSTRUCTION SITE

LEGEND

conc	concrete
EP	electric pole
EP/STAY	electric pole stay wire
IC	inspection cover
(dotted line)	foliage
(solid line)	rock cut
(dashed line)	overhead wires
▲	survey station
+	spot level



Metres
Scale 1:200



A SOUTH ELEVATION
FPO 1/4" = 1'-0"

B NORTH ELEVATION
FPO 1/4" = 1'-0"

C SIDE ELEVATION (BOTH)
FPO 1/4" = 1'-0"

D LONG SECTION
FPO 1/16" = 1'-0"

ISSUED FOR: Planning Submission May 2017

AMENDMENTS:

NO	REVISION	BY	APP	DATE

▲ Fence removed

SCALE: AS SHOWN

SURVEY
PREPARED BY: DATE:

DESIGN
PREPARED BY: DATE:

CHECKED BY: DATE:

DRAWING
PREPARED BY: DATE:

CHECKED BY: DATE:

APPROVED BY: DATE:

PROJECT NUMBER:

PROJECT NAME:

**FORT PROSPECT
CENTRAL AREA
PUMP STATION**
Fort Hill Road

Devonshire

SHEET TITLE:

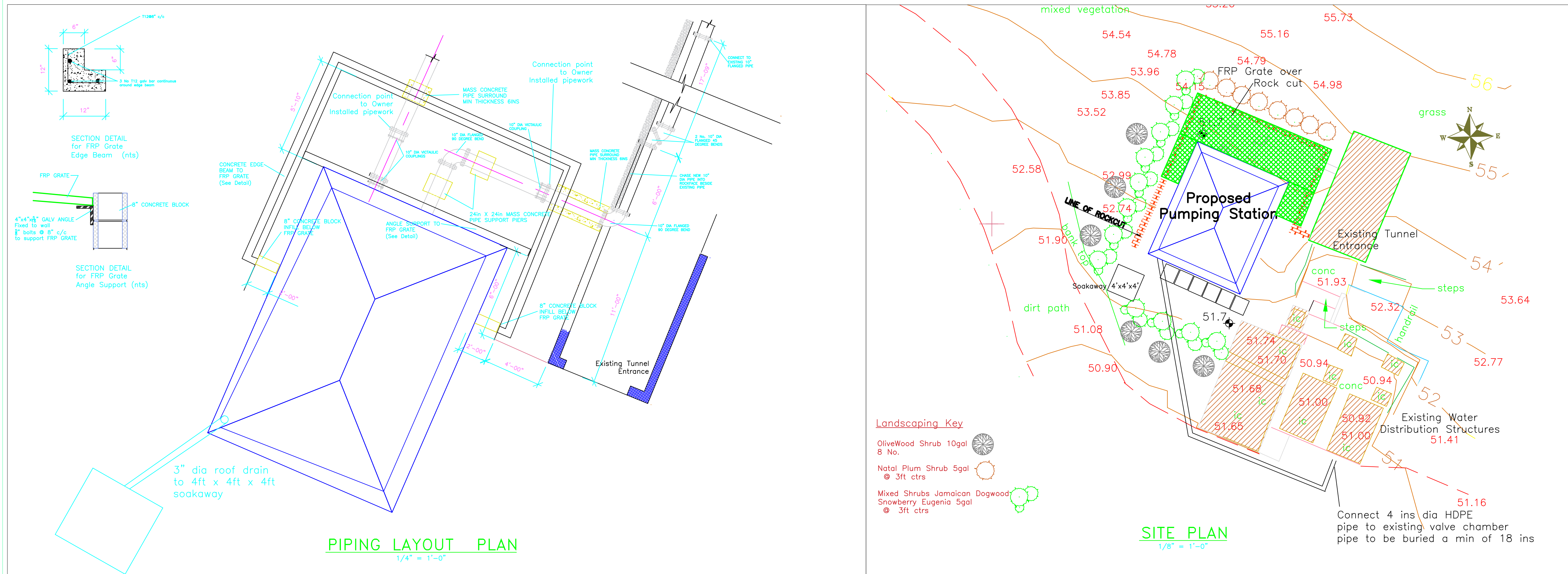
**Site Plan
Elevations**

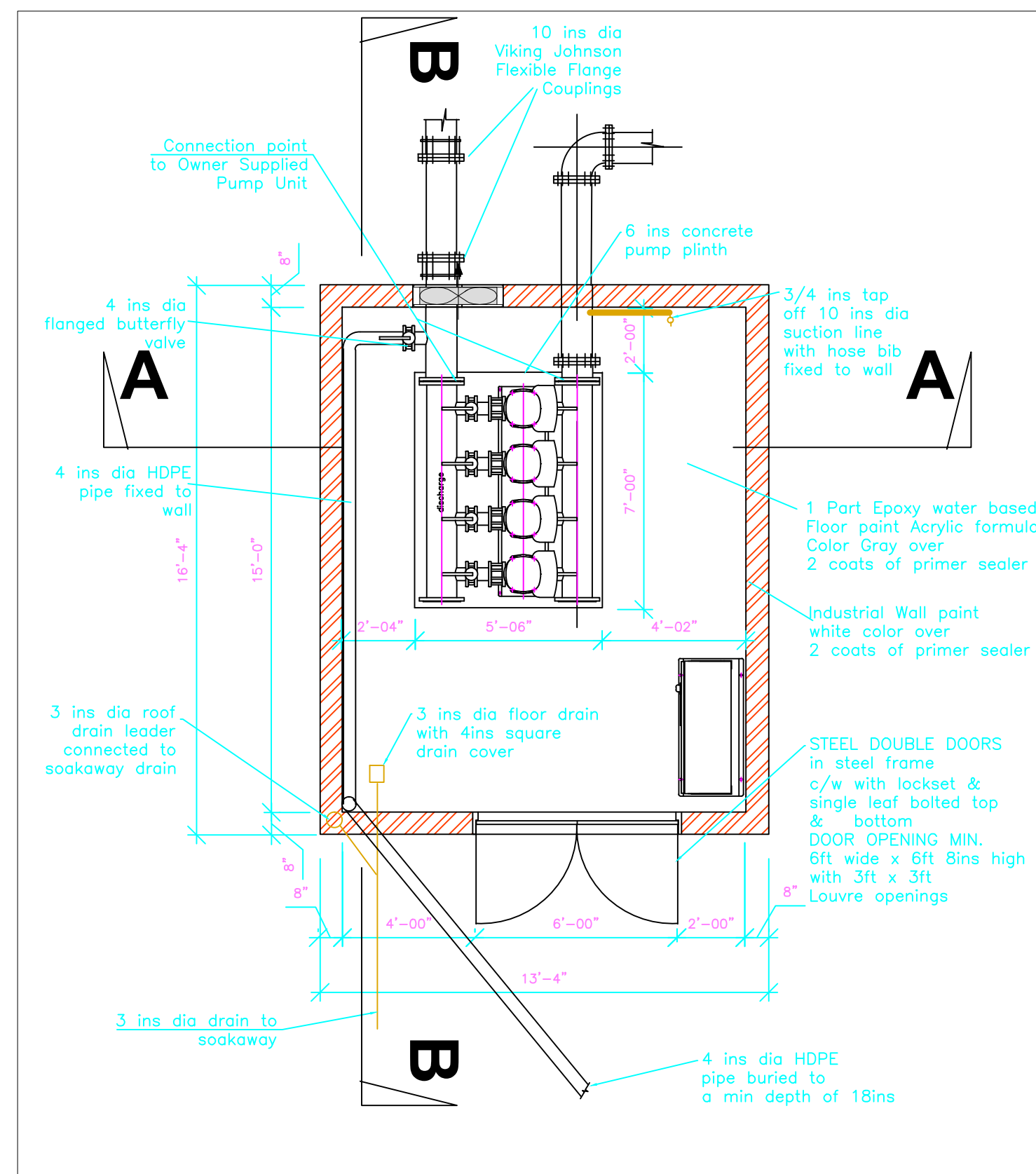
SHEET NUMBER:

FP-01

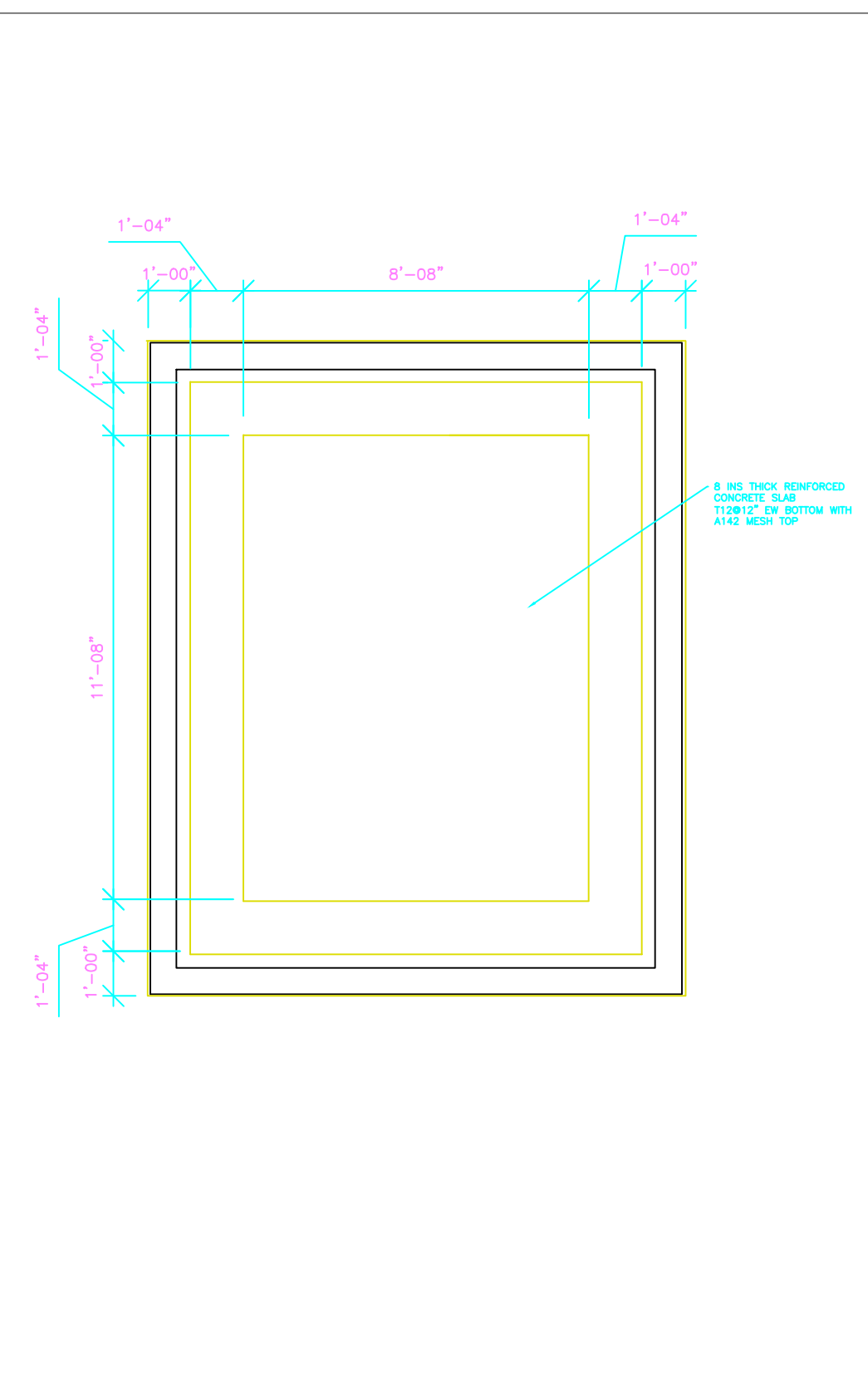
REVISION

▲

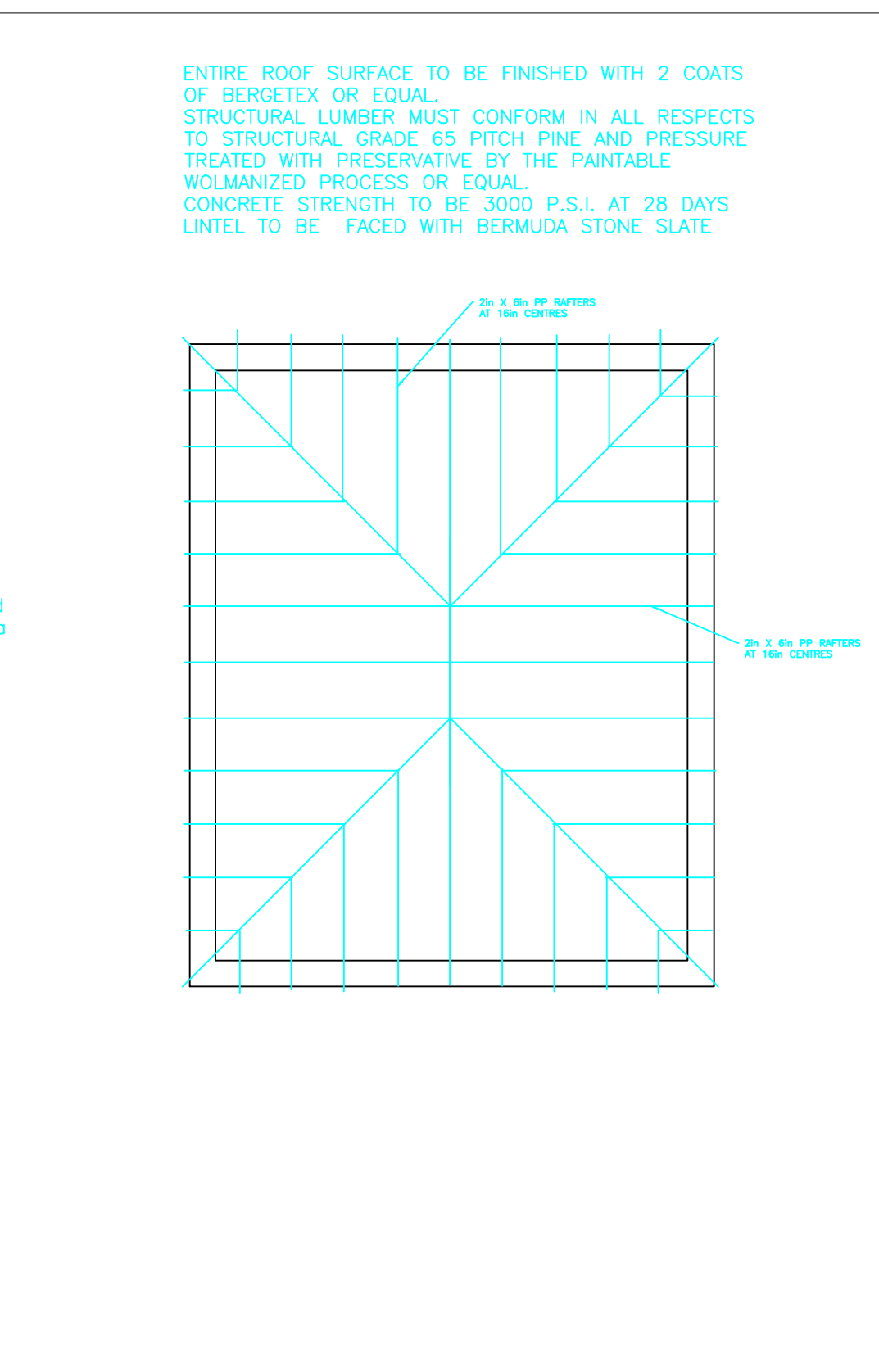




FLOOR PLAN
1/4" = 1'-0"



FOUNDATION PLAN
1/4" = 1'-0"



ROOF PLAN
1/4" = 1'-0"

NOTES

1.0 FOUNDATIONS

1.1 ALL FOUNDATIONS TO BEAR ON COMPACTED BEARING MATERIAL WHICH IS TO BE REVIEWED BY THE ENGINEER PRIOR TO PLACING FOUNDATIONS.

1.2 ANY SOFT AREAS ARE TO BE REMOVED AND FILLED WITH CONCRETE FILL TO THE ENGINEER'S APPROVAL.

2.0 CONCRETE

2.1 CONCRETE TO BE MINIMUM 25 MPa STRENGTH WITH 3 in +/- 1 in, SLUMP

2.2 CONCRETE COVER ON REINFORCEMENT TO BE 2 in.

2.3 THE CONTRACTOR SHALL GIVE A MINIMUM OF 24 HOURS NOTICE TO THE ENGINEER PRIOR TO PLACING ANY CONCRETE.

3.0 REINFORCING STEEL AND MESH

3.1 REINFORCEMENT SHALL BE GRADE 400 DEFORMED BILLET STEEL WITH A MINIMUM YIELD STRENGTH OF 400 MPa.

3.2 REINFORCEMENT TO BE GALVANISED

3.3 REINFORCEMENT WHICH IS CUT AND BENT ON SITE SHALL HAVE TWO APPLICATIONS OF A "ZINC" RICH PAINT APPLIED TO THE ENDS AND DAMAGED AREAS TO THE APPROVAL OF THE ENGINEER.

4.0 FLOOR FINISH

4.1 FLOOR SURFACE TO RECEIVE A STEEL TROWEL FINISH

ISSUED FOR: Planning Submission May 2017

AMENDMENTS:

NO	REVISION	BY	APP	DATE

SCALE: AS SHOWN

SURVEY

PREPARED BY: DATE:

DESIGN

PREPARED BY: DATE:

CHECKED BY: DATE:

DRAWING

PREPARED BY: DATE:

CHECKED BY: DATE:

APPROVED BY: DATE:

PROJECT NUMBER:

PROJECT NAME:

**FORT PROSPECT
CENTRAL AREA
PUMP STATION**
Fort Hill Road

Devonshire

SHEET TITLE:

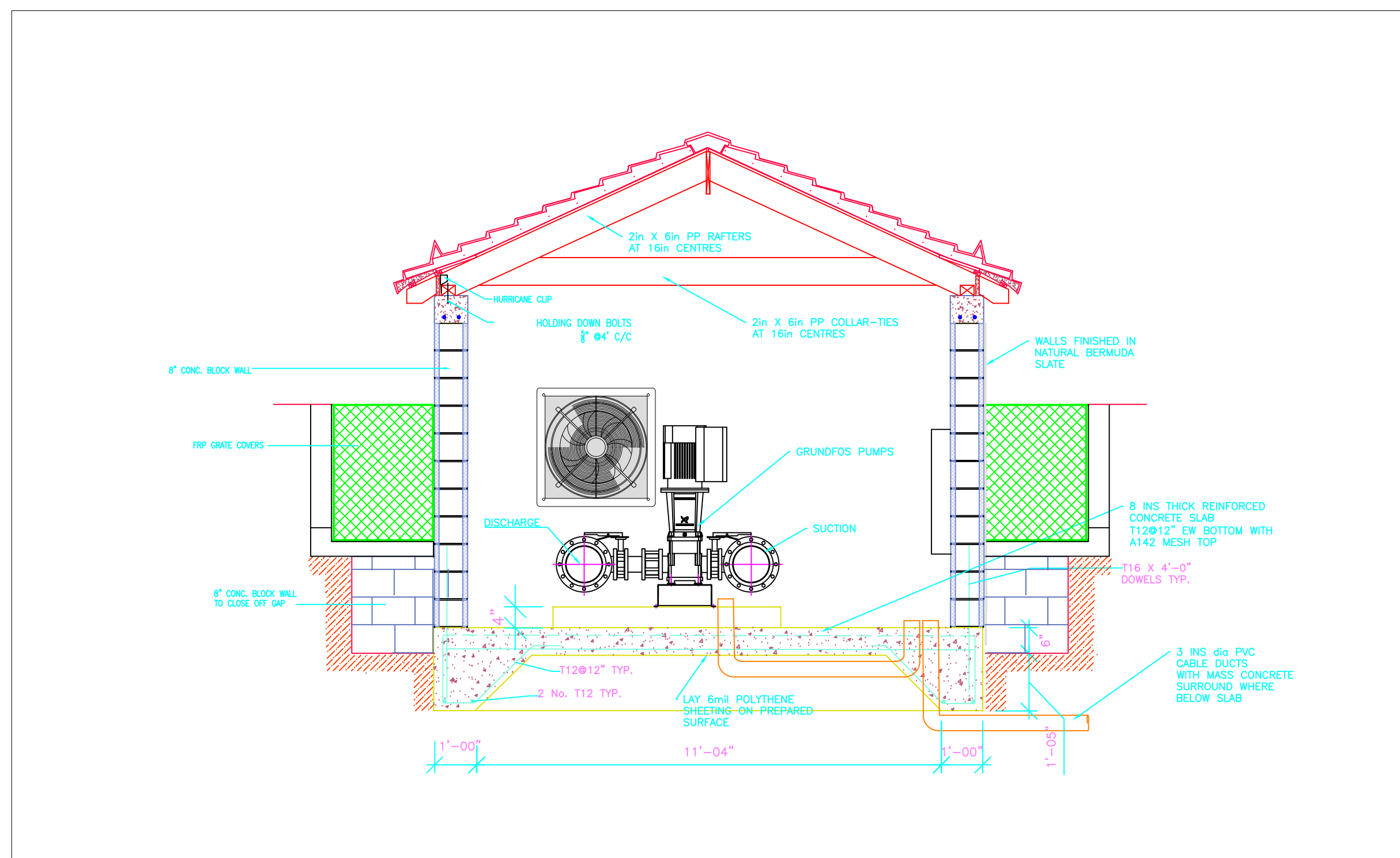
**Plans
& Sections**

SHEET NUMBER:

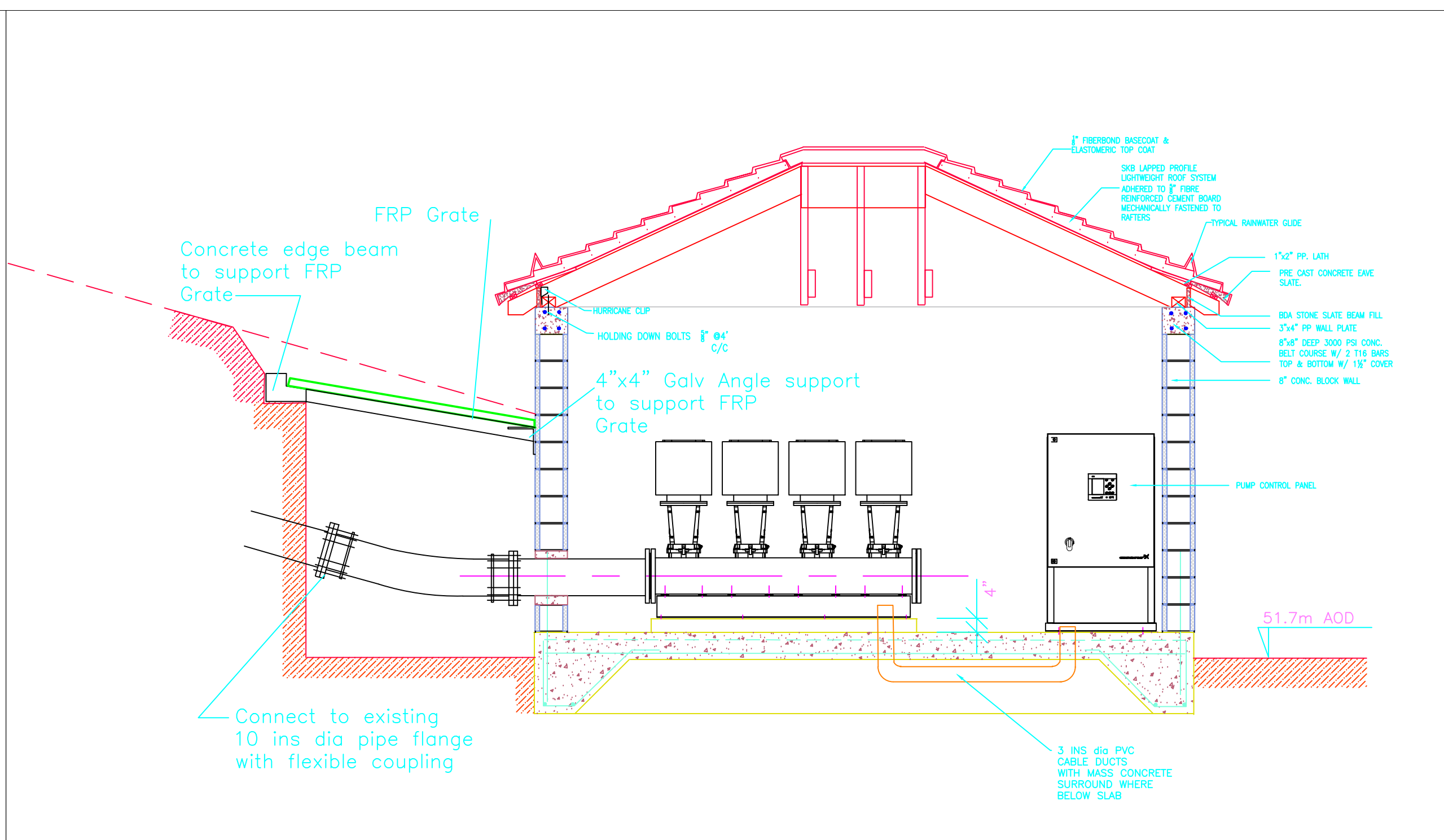
FP02

REVISION

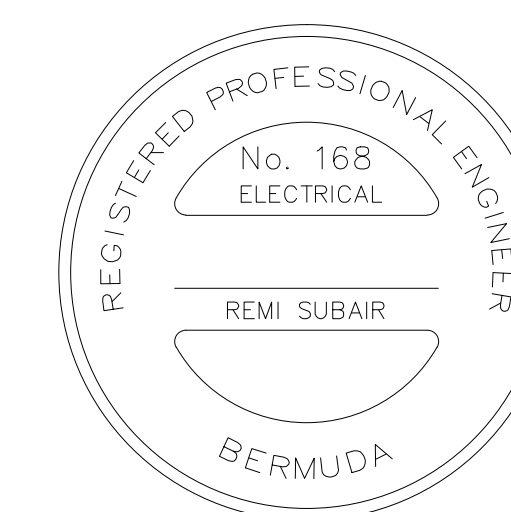
A



SECTION A-A
3/8" = 1'-0"



SECTION B-B
3/8" = 1'-0"



ISSUED FOR: PLANNING 9/27/16

AMENDMENTS:

NO:	REVISION	APP	DATE:
1	PLANNING		10/10/16

SCALE: 3"=1'-0"

SURVEY

PREPARED BY: RS DATE: 10/10/16

DESIGN

PREPARED BY: RS DATE: 10/10/16

CHECKED BY: RS DATE: 10/10/16

DRAWING

PREPARED BY: RS DATE: 10/10/16

CHECKED BY: RS DATE: 10/10/16

APPROVED BY: RS

PROJECT NUMBER:

PROJECT NAME:

**PROSPECT
WATER DEPOT
REMOTE MONITORING
FORT PROSPECT
14 HEADQUARTERS HILL
DEVONSHIRE**

DRAWING FILE NO: ACAD R-12

SHEET TITLE:

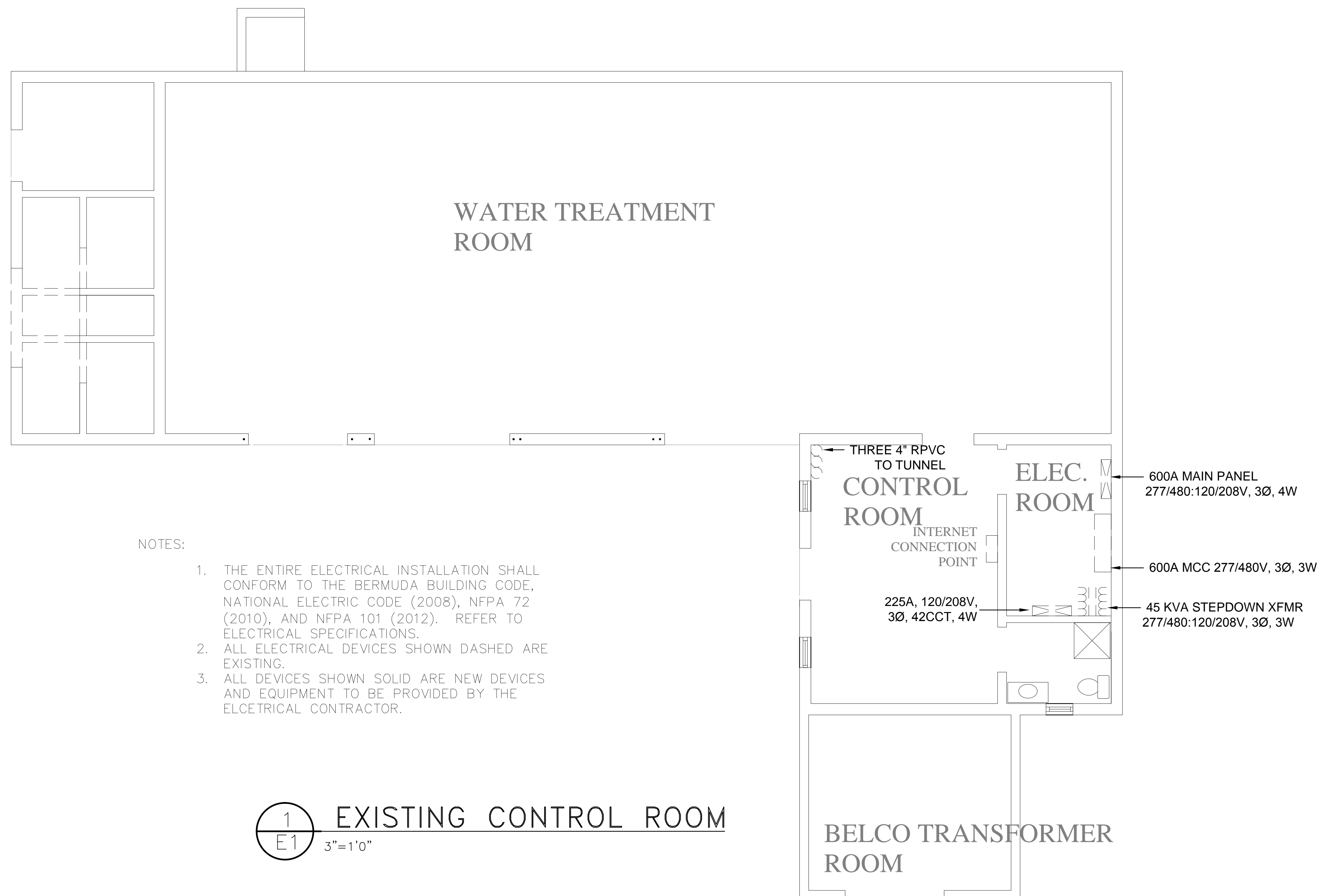
**EXISTING CONTROL ROOM
LAYOUT PLAN**

SHEET NUMBER:

E1

REVISION

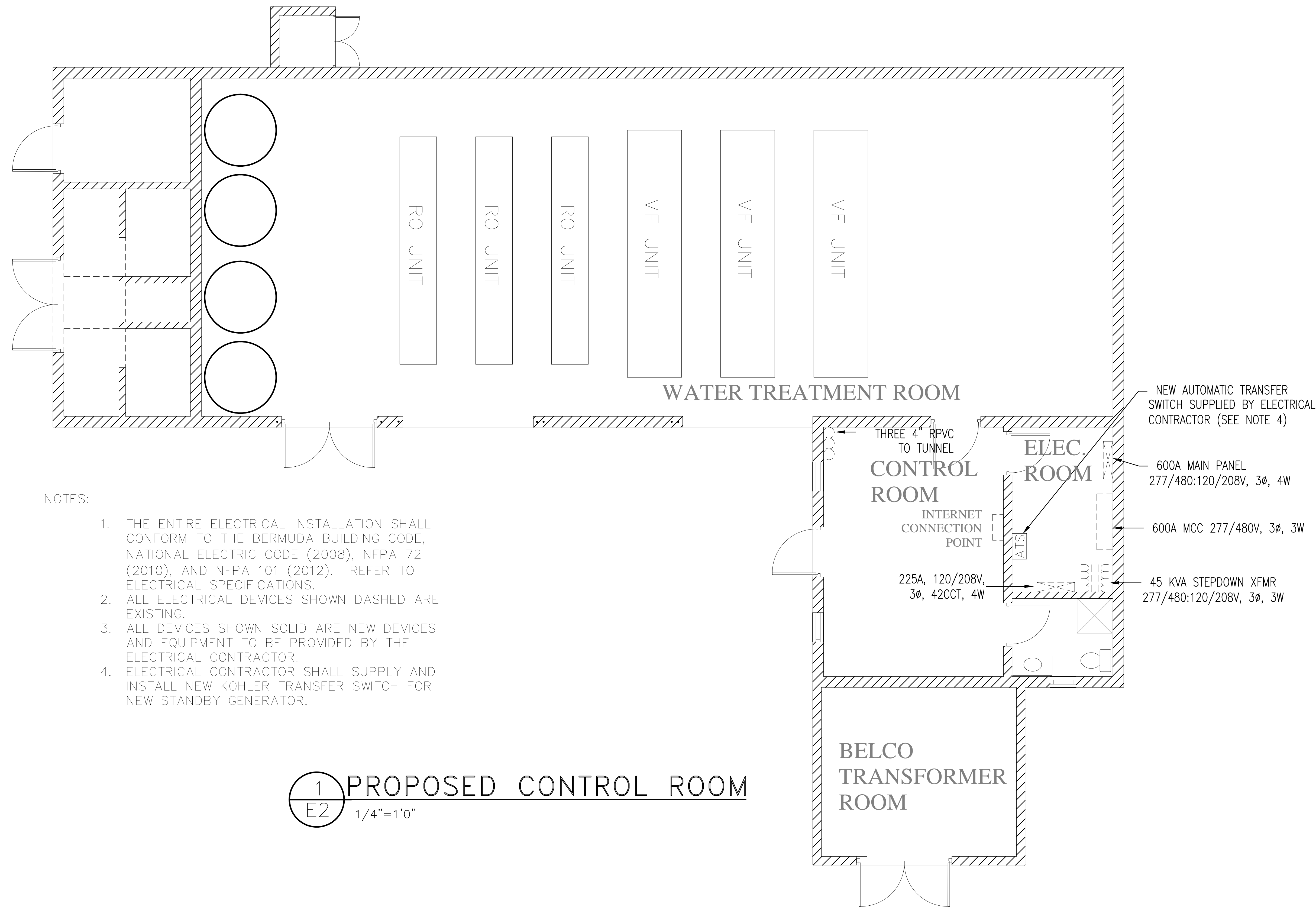
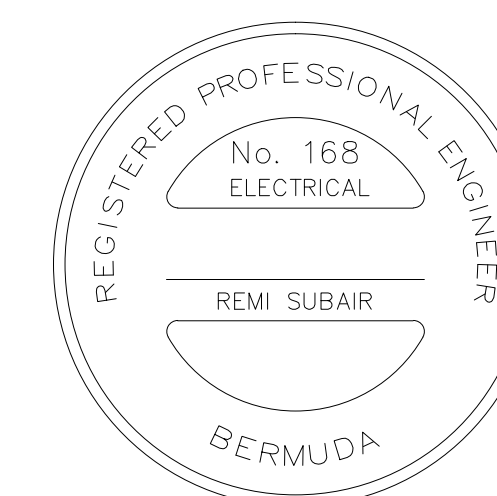
1



NOTES:

1. THE ENTIRE ELECTRICAL INSTALLATION SHALL CONFORM TO THE BERMUDA BUILDING CODE, NATIONAL ELECTRIC CODE (2008), NFPA 72 (2010), AND NFPA 101 (2012). REFER TO ELECTRICAL SPECIFICATIONS.
2. ALL ELECTRICAL DEVICES SHOWN DASHED ARE EXISTING.
3. ALL DEVICES SHOWN SOLID ARE NEW DEVICES AND EQUIPMENT TO BE PROVIDED BY THE ELECETRICAL CONTRACTOR.

1
E1 3"=1'0"
EXISTING CONTROL ROOM



NOTES:

1. THE ENTIRE ELECTRICAL INSTALLATION SHALL CONFORM TO THE BERMUDA BUILDING CODE, NATIONAL ELECTRIC CODE (2008), NFPA 72 (2010), AND NFPA 101 (2012). REFER TO ELECTRICAL SPECIFICATIONS.
2. ALL ELECTRICAL DEVICES SHOWN DASHED ARE EXISTING.
3. ALL DEVICES SHOWN SOLID ARE NEW DEVICES AND EQUIPMENT TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
4. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL NEW KOHLER TRANSFER SWITCH FOR NEW STANDBY GENERATOR.

1 PROPOSED CONTROL ROOM
E2 1/4"=1'0"

ISSUED FOR: PLANNING 9/27/16

AMENDMENTS:

NO:	REVISION	APP	DATE:
1	PLANNING		10/10/16

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

SURVEY
PREPARED BY: RS DATE: 10/10/16

DESIGN
PREPARED BY: RS DATE: 10/10/16
CHECKED BY: RS DATE: 10/10/16

DRAWING
PREPARED BY: RS DATE: 10/10/16
CHECKED BY: RS DATE: 10/10/16

APPROVED BY: RS

PROJECT NUMBER:

PROJECT NAME:

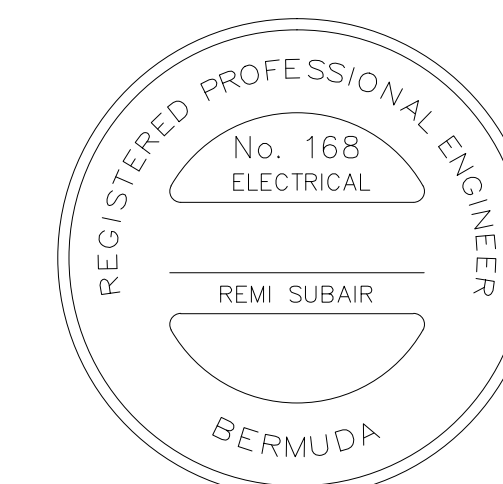
**PROSPECT
WATER DEPOT
REMOTE MONITORING
FORT PROSPECT
14 HEADQUARTERS HILL
DEVONSHIRE**

DRAWING FILE NO: ACAD R-12

SHEET TITLE:

**EXISTING CONTROL ROOM
LAYOUT PLAN**

SHEET NUMBER: **E2** REVISION: **1**



ISSUED FOR:

AMENDMENTS:

NO:	REVISION	APP	DATE:
1	PLANNING	RS	10/10/16

SCALE: 1/16"=1'0"

SURVEY
PREPARED BY: RS DATE: 10/10/16

DESIGN
PREPARED BY: RS DATE: 10/10/16
CHECKED BY: RS DATE: 10/10/16

DRAWING
PREPARED BY: RS DATE: 10/10/16
CHECKED BY: RS DATE: 10/10/16

APPROVED BY: RS

PROJECT NUMBER:
50816

PROJECT NAME:
**PROSPECT
PUMP STATION**

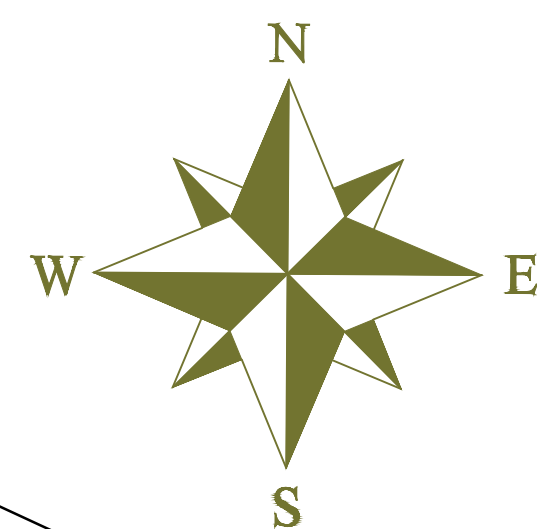
**FORT PROSPECT
14 HEADQUARTERS HILL
DEVONSHIRE**

DRAWING FILE NO:
K:WATER_SECTION\PROSPECT\DATA_MONITORING

SHEET TITLE:
**EXISTING SITE PLAN
SITE PLAN**

SHEET NUMBER:
E3

REVISION
1



RESEVOIR
No. 1

RESEVOIR
No. 2

TREATMENT
BUILDING

CONTROL ROOM

BELCO
VAULT

EXISTING TUNNEL

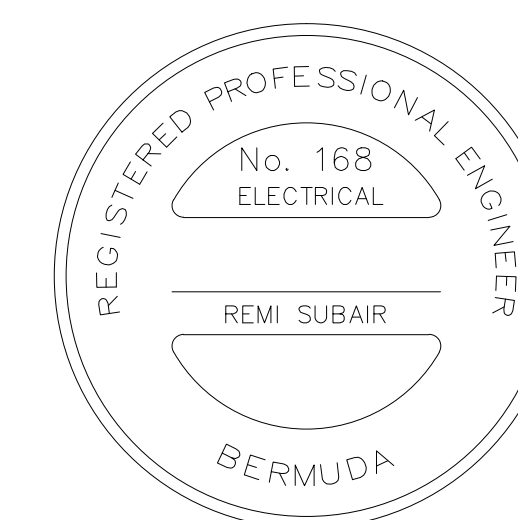
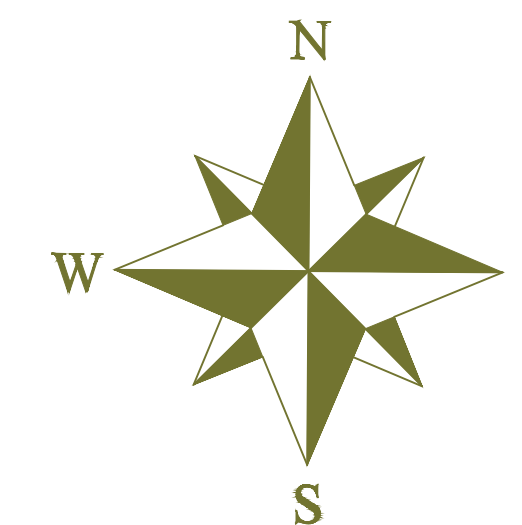
THREE EXISTING 4" RPVC FROM
CONTROL ROOM TO EXISTING
TUNNEL (SEE NOTE 3)

1 EXISTING SITE PLAN
E3 1/16"=1'0"

PROPOSED
PUMP STATION

NOTES:

1. THE ENTIRE ELECTRICAL INSTALLATION SHALL CONFORM TO THE BERMUDA BUILDING CODE, NATIONAL ELECTRIC CODE (2008), NFPA 72 (2010), AND NFPA 101 (2012). REFER TO ELECTRICAL SPECIFICATIONS.
2. ALL ELECTRICAL DEVICES SHOWN DASHED ARE EXISTING.
3. CONTRACTOR TO CONFIRM THE EXISTING CONDITION OF THE 4" DUCTS FROM THE CONTROL ROOM TO THE TUNNEL AND ADVISE ENGINEER IF THERE ARE ANY DEFICIENCIES.



ISSUED FOR:

AMENDMENTS:

NO:	REVISION	APP	DATE:
A	PLANNING		10/OCT/16

SCALE: 1/16"=1'0"

SURVEY
PREPARED BY: RS DATE: 10/OCT/16

DESIGN
PREPARED BY: RS DATE: 10/OCT/16
CHECKED BY: RS DATE:

DRAWING
PREPARED BY: RS DATE: 10/OCT/16
CHECKED BY: RS DATE: 10/OCT/16

APPROVED BY:

PROJECT NUMBER:
50816

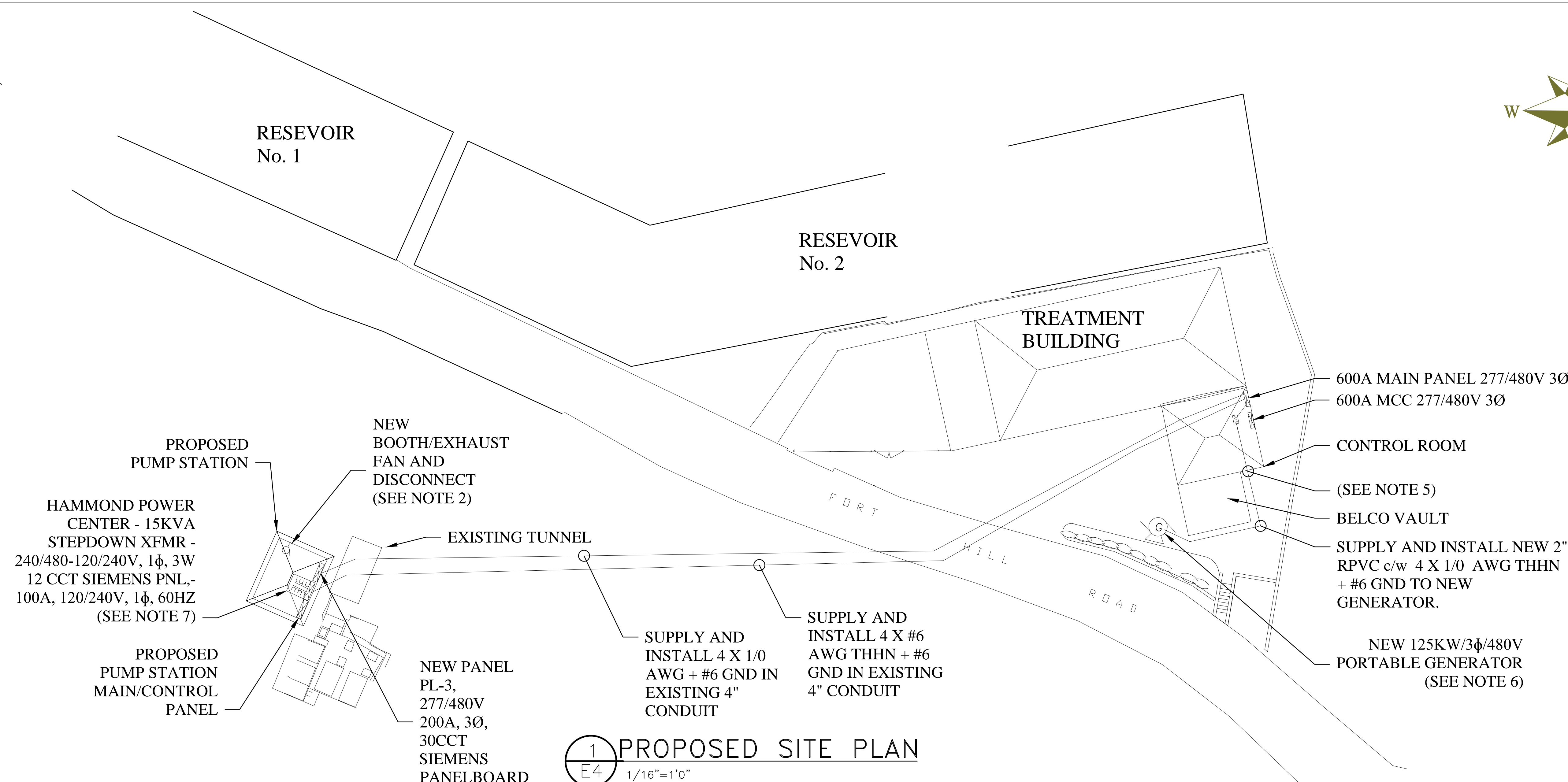
PROJECT NAME:
**PROSPECT
PUMP STATION**

**FORT PROSPECT
14 HEADQUARTERS HILL
DEVONSHIRE**

DRAWING FILE NO:
K:WATER_SECTION\PROSPECT\DATA_MONITORING

SHEET TITLE:
**PROPOSED
SITE PLAN**

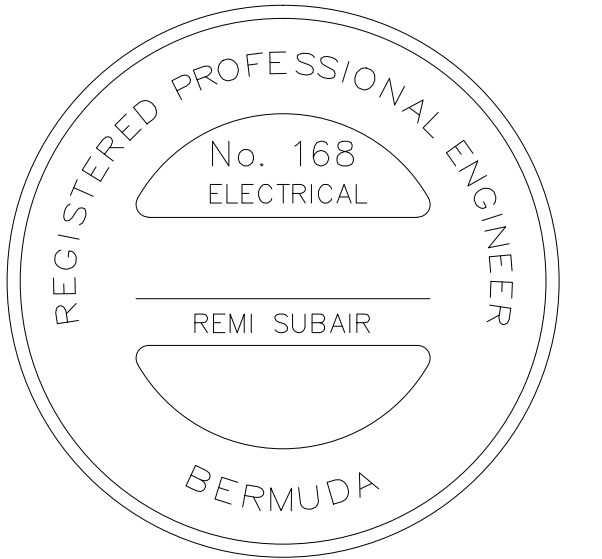
SHEET NUMBER: **E4** REVISION: **1**



1
E4 **PROPOSED SITE PLAN**
1/16"=1'0"

NOTES:

1. THE ENTIRE ELECTRICAL INSTALLATION SHALL CONFORM TO THE BERMUDA BUILDING CODE, NATIONAL ELECTRIC CODE (2008), NFPA 72 (2010), AND NFPA 101 (2012). REFER TO ELECTRICAL SPECIFICATIONS.
2. ALL ELECTRICAL DEVICES SHOWN DASHED ARE EXISTING.
3. ALL DEVICES SHOWN SOLID ARE NEW DEVICES AND EQUIPMENT TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
4. INSTALL NEW EXHAUST FAN PROVIDED BY OWNER. SUPPLY AND INSTALL NEW DISCONNECT FOR EXHAUST FAN.
5. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIRESTOPPING ALL PENETRATIONS.
6. 125KW PORTABLE GENERATOR SHALL BE SUPPLIED BY PUBLIC WORKS AND INSTALLED BY THE ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL A NEW KOHLER AUTOMATIC TRANSFER SWITCH FOR THIS PORTABLE GENERATOR.
7. HAMMOND POWER CENTER SHALL BE SUPPLIED BY PUBLIC WORKS AND INSTALLED BY THE ELECTRICAL CONTRACTOR.



ISSUED FOR: 10/10/16

AMENDMENTS:

NO	REVISION	BY	APPR	DATE

PLANNING 10/10/16

SCALE: 1/2"=1'0"

SURVEY	
PREPARED BY: RS	DATE: 10/10/16
DESIGN	
PREPARED BY: RS	DATE: 10/10/16
CHECKED BY: RS	DATE: 10/10/16
DRAWING	
PREPARED BY: RS	DATE: 10/10/16
CHECKED BY: RS	DATE: 10/10/16
APPROVED BY: RS	DATE: 10/10/16

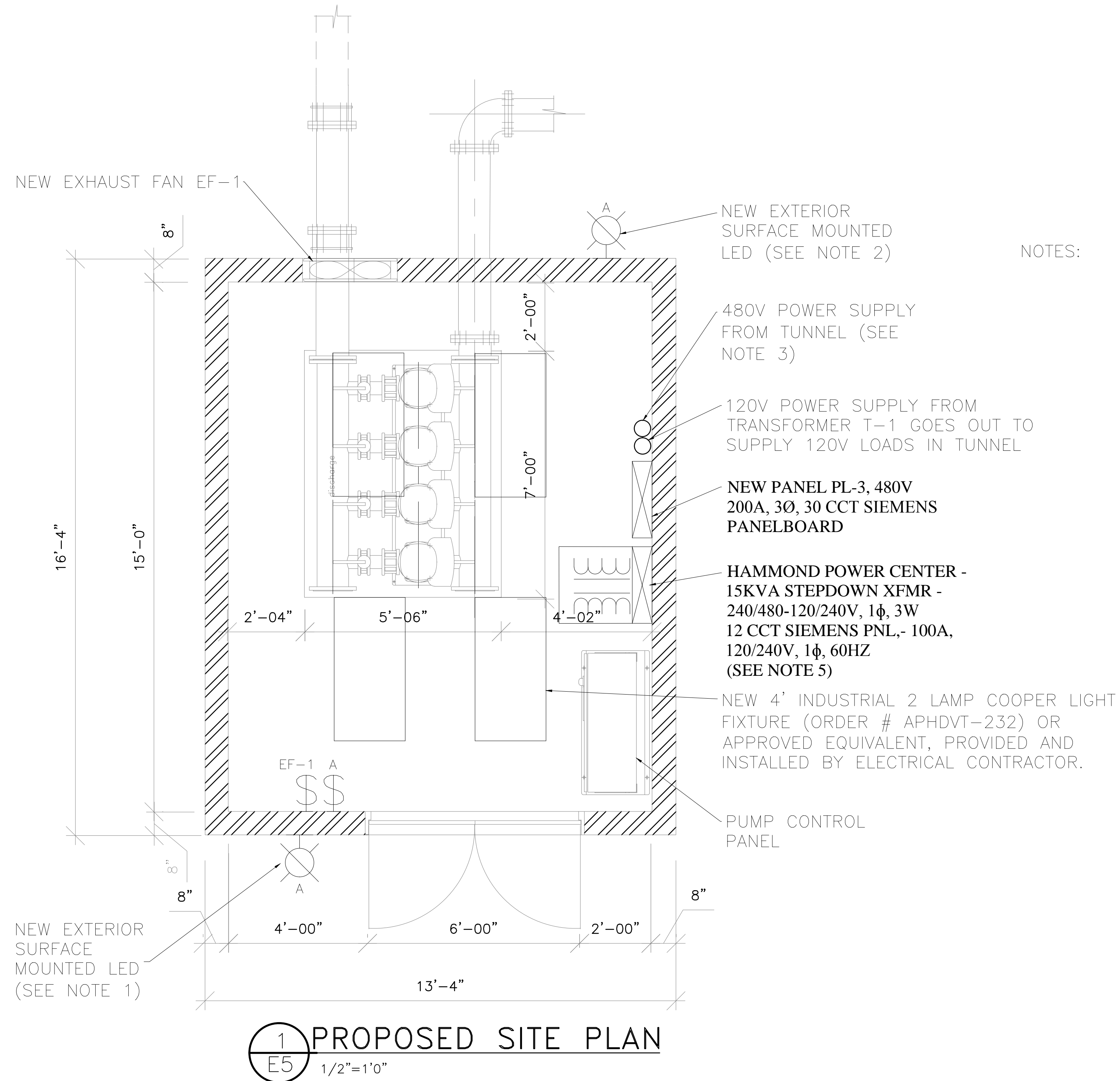
PROJECT NUMBER:

PROJECT NAME:
**FORT PROSPECT
CENTRAL AREA
PUMP STATION**
Fort Hill Road

Devonshire

SHEET TITLE:
**PUMPING STATION
ELECTRICAL FLOOR PLANS**

SHEET NUMBER: **E5** REVISION: **1**



NOTES:

1. THE ENTIRE ELECTRICAL INSTALLATION SHALL CONFORM TO THE BERMUDA BUILDING CODE, NATIONAL ELECTRIC CODE (2008), NFPA 72 (2010), AND NFPA 101 (2012). REFER TO ELECTRICAL SPECIFICATIONS.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL NEW LITHONIA LED WALL PACK (ORDER # OLV-23) OR APPROVED EQUIVALENT.
3. NEW 2" CONDUIT CHanneled FROM TUNNEL SHALL BE SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR.
4. NEW 2" CONDUIT CHanneled BACK TO TUNNEL SHALL BE SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR.
5. HAMMOND POWER CENTER SHALL BE SUPPLIED BY PUBLIC WORKS AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

1 PROPOSED SITE PLAN
E5 1/2"=1'0"



ISSUED FOR: - -

AMENDMENTS:

NO:	REVISION	APP	DATE:
1	PLANNING		10/10/16

SCALE: N.T.S.

SURVEY
PREPARED BY: RS DATE: 10/10/16

DESIGN
PREPARED BY: RS DATE: 10/10/16
CHECKED BY: RS DATE: 10/10/16

DRAWING
PREPARED BY: RS DATE: 10/10/16
CHECKED BY: RS DATE: 10/10/16

APPROVED BY: RS

PROJECT NUMBER:

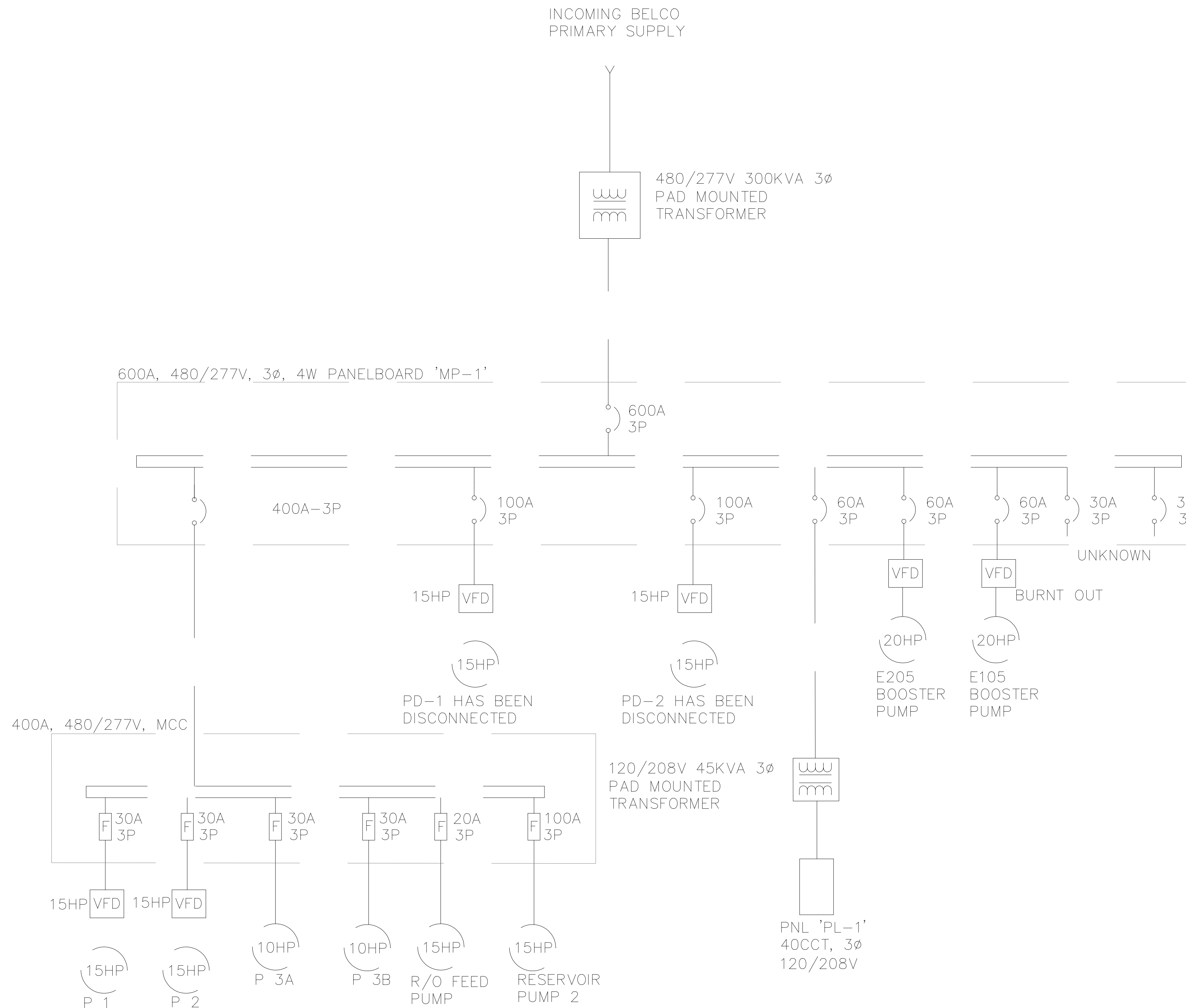
PROJECT NAME:
**FORT PROSPECT
CENTRAL AREA
PUMP STATION**
14 FORT HILL ROAD

DEVONSHIRE

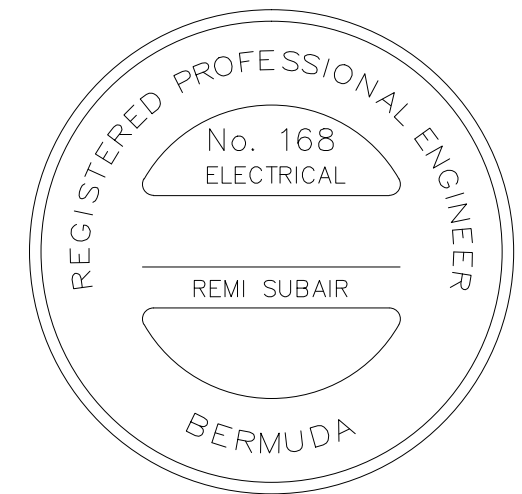
DRAWING FILE NO:

SHEET TITLE:
**EXISTING SINGLE
LINE DIAGRAM**

SHEET NUMBER: **E6** REVISION: **1**



1 EXISTING SINGLE LINE DIARGRAM
E6 N.T.S.



ISSUED FOR: - -

AMENDMENTS:			
NO:	REVISION	APP	DATE:
1	PLANNING		10/10/16

SCALE: N.T.S.

SURVEY
PREPARED BY: RS DATE: 10/10/16

DESIGN
PREPARED BY: RS DATE: 10/10/16
CHECKED BY: RS DATE: 10/10/16

DRAWING
PREPARED BY: RS DATE: 10/10/16
CHECKED BY: RS DATE: 10/10/16

APPROVED BY: RS

PROJECT NUMBER:

PROJECT NAME:
**FORT PROSPECT
CENTRAL AREA
PUMP STATION**
14 FORT HILL ROAD

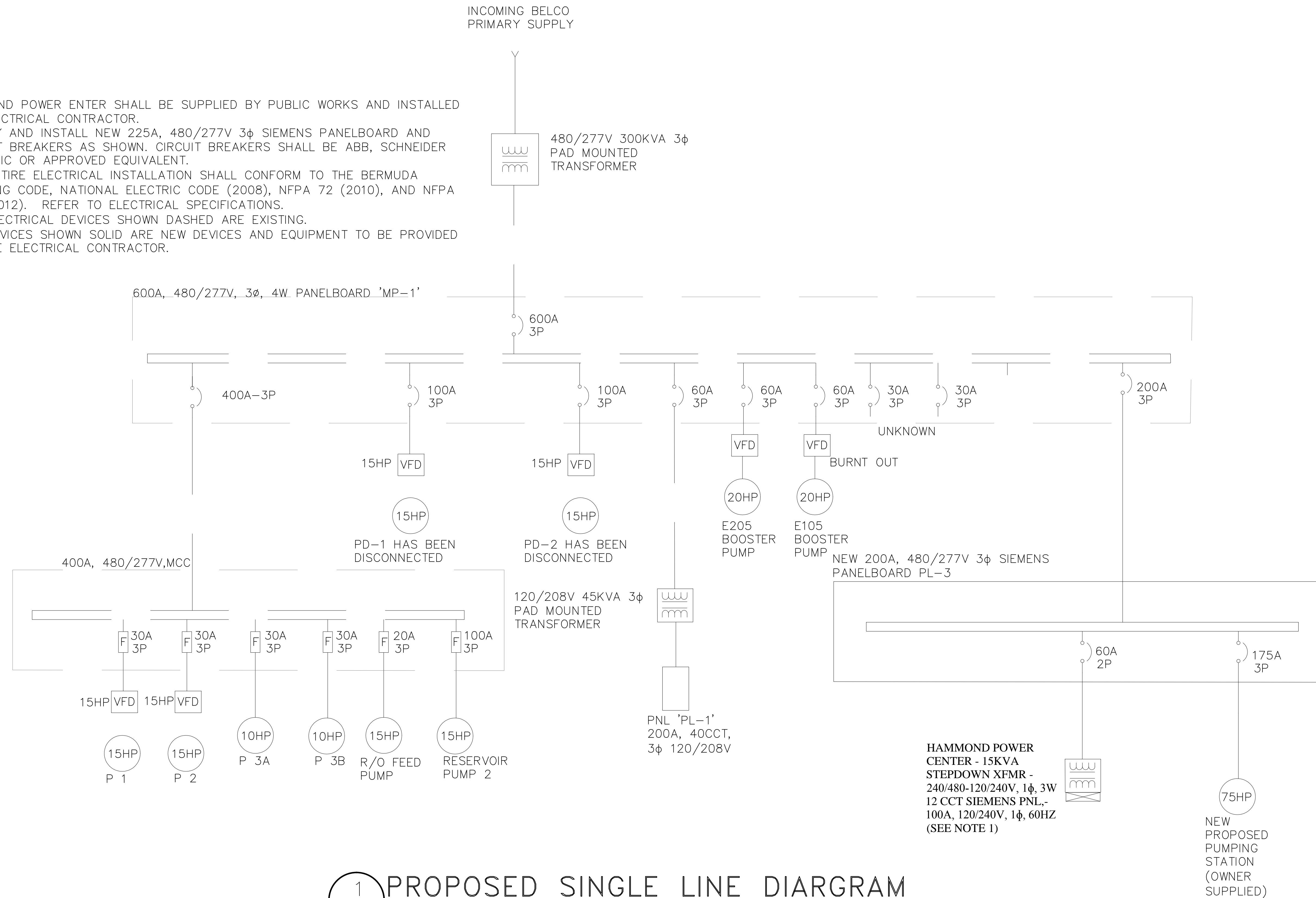
DEVONSHIRE
DRAWING FILE NO:

SHEET TITLE:
**PROPOSED SINGLE
LINE DIAGRAM**

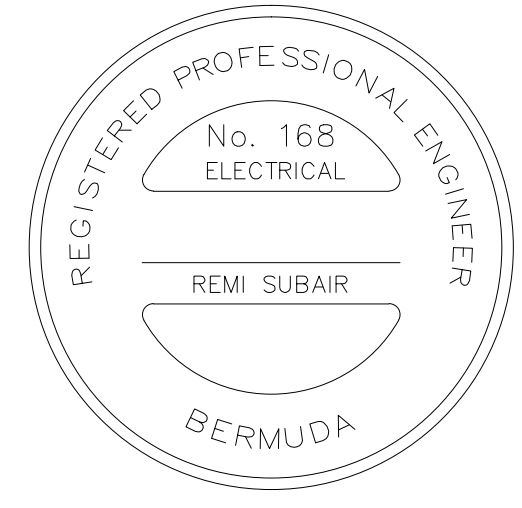
SHEET NUMBER: **E7** REVISION:

NOTE;

- HAMMOND POWER ENTER SHALL BE SUPPLIED BY PUBLIC WORKS AND INSTALLED BY ELECTRICAL CONTRACTOR.
- SUPPLY AND INSTALL NEW 225A, 480/277V 3φ SIEMENS PANELBOARD AND CIRCUIT BREAKERS AS SHOWN. CIRCUIT BREAKERS SHALL BE ABB, SCHNEIDER ELECTRIC OR APPROVED EQUIVALENT.
- THE ENTIRE ELECTRICAL INSTALLATION SHALL CONFORM TO THE BERMUDA BUILDING CODE, NATIONAL ELECTRIC CODE (2008), NFPA 72 (2010), AND NFPA 101 (2012). REFER TO ELECTRICAL SPECIFICATIONS.
- ALL ELECTRICAL DEVICES SHOWN DASHED ARE EXISTING.
- ALL DEVICES SHOWN SOLID ARE NEW DEVICES AND EQUIPMENT TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR.



1
E7 PROPOSED SINGLE LINE DIAGRAM
N.T.S.



ISSUED FOR: - -

AMENDMENTS:

NO:	REVISION	APP	DATE:
1	PLANNING		10/10/16

SCALE: N.T.S.

SURVEY
PREPARED BY: RS DATE: 10/10/16

DESIGN
PREPARED BY: RS DATE: 10/10/16
CHECKED BY: RS DATE: 10/10/16

DRAWING
PREPARED BY: RS DATE: 10/10/16
CHECKED BY: RS DATE: 10/10/16

APPROVED BY: RS

PROJECT NUMBER:

PROJECT NAME:
**FORT PROSPECT
CENTRAL AREA
PUMP STATION
14 FORT HILL ROAD**

DEVONSHIRE
DRAWING FILE NO:

SHEET TITLE:
**EXISTING SCHEDULES
& LEGEND**

SHEET NUMBER: **E8** REVISION: **1**

MOTOR NUMBER	DESCRIPTION	HORSEPOWER	FULL LOAD AMPS	KILOWATTS	VOLTAGE	PHASE	FED FROM	OVERCURRENT PROTECTION	FEEDER	DISC AT MOTOR		STARTER		CONTROLS						CONTACTS		REMARKS							
										REQUIRED	TYPE	TYPE	SIZE	VFD	FWD/REV/STOP	START/STOP	HND/OFF/AUTO	REM START/STOP	CNTRL XFMR	PILOT LIGHT	NORMALLY OPEN		NORMALLY CLOSED						
BP-1	BOOSTER PUMP				460	3	MP-1	60A-3P		●																			
BP-2	BOOSTER PUMP				460	3	MP-1	60A-3P		●																			
CP-1	CLEANING PUMP	10		3	460	3	MCC		3#12-3/4"C	●																			
CP-2	CLEANING PUMP	10		3	460	3	MCC		3#12-3/4"C	●																			
EF-1	R/O FEED PUMP	15			460	1	MCC		2#12-3/4"C	●																			
EF-2	RESERVOIR #2 PUMP				460	1	MCC		2#12-3/4"C	●																			
P-1	P1	15			460	1	MCC		2#12-3/4"C	●																			
P-2	P2	15			460	1	MCC		2#12-3/4"C	●																			

SPACE
SPACE
SPACE
30 AMP SPACE
60 AMP 30 AMP
60 AMP 60 AMP
100 AMP 3Ø, 60HZ 100 AMP 3Ø, 60HZ
400 AMP 3Ø, 60HZ
600 AMP 3Ø, 60HZ MAIN BREAKER
SPACE

CIR	BKR	WATTAGE			LTG	REC	MIS	REMARKS	REMARKS	MIS	RECLTG	WATTAGE		BKR	CIR
		AØ	BØ	CØ								AØ	BØ		
1	20						CHEM RM LTGS	CNTRL RM LTGS					20	2	
3	20						AC CONDENSOR						20	4	
7	20						DOM WTR PUMP	SENSOR LIGHTS					20	6	
11	20						COMP HEAT REC	PLANT RM REC					20	10	
13	20						FIRE/SEC ALARM	PLANT RM REC					20	12	
15	20						R/O MONITOR ST	AUX CNTRL PNL					20	14	
17	20						CONTR RM REC	S101 DIV VALVE					20	16	
19	20						PRDCT MON ST	100&200 C PNL					20	18	
21	20						PNL RM REC/LTG	300 CNTRL PNL					20	20	
23	20						PLANT RM LTGS	PLANT RM LTG					20	22	
25	20						CHLN BST PUMP						20	24	
27	20						SOLENOIDS F&B	FLOW METERS					20	26	
29	20												20	28	
31	20						CHM AC/EXHST	CHLN SOLENOID					20	30	
33	20						EMERGENCY LTGS	CHL G/LVL ALRM					20	32	
35	20						MAIN PLC PNL	LVL TRANSMITTERS					20	34	
37	20						ROOF EXH FAN	AC CNTRL PANEL					20	36	
41	20												20	38	
TOTALS														42	
AØ TOTAL=							BØ TOTAL=							CØ TOTAL=	
PANEL TOTAL=															
REMARKS:															

POWER	LIGHTING
DUPLEX RECEPTACLE	SURFACE MOUNTED 2X4 FLUORESCENT (TWO T8 LAMPS)
QUAD RECEPTACLE	EMERGENCY DC BATTERY PACK WITH REMOTE HEADS
MOTOR WITH DISCONNECT SWITCH	EXTERIOR LED
TRANSFORMER	SINGLE POLE SWITCH
PANEL / MCC	TWO POLE SWITCH
JUNCTION BOX	
VARIABLE SPEED DRIVE	
FUSE	
FUSED DISCONNECT SWITCH	

1 EXISTING MOTOR, LIGHTING & PANEL SCHEDULES
E8 N.T.S.



ISSUED FOR: - -

AMENDMENTS:

NO.	REVISION	APP	DATE:
1	PLANNING		10/10/16

SCALE: N.T.S.

SURVEY
PREPARED BY: RS DATE: 10/10/16

DESIGN
PREPARED BY: RS DATE: 10/10/16
CHECKED BY: RS DATE: 10/10/16

DRAWING
PREPARED BY: RS DATE: 10/10/16
CHECKED BY: RS DATE: 10/10/16

APPROVED BY: RS

PROJECT NUMBER:

PROJECT NAME:
FORT PROSPECT CENTRAL AREA PUMP STATION 14 FORT HILL ROAD

DEVONSHIRE

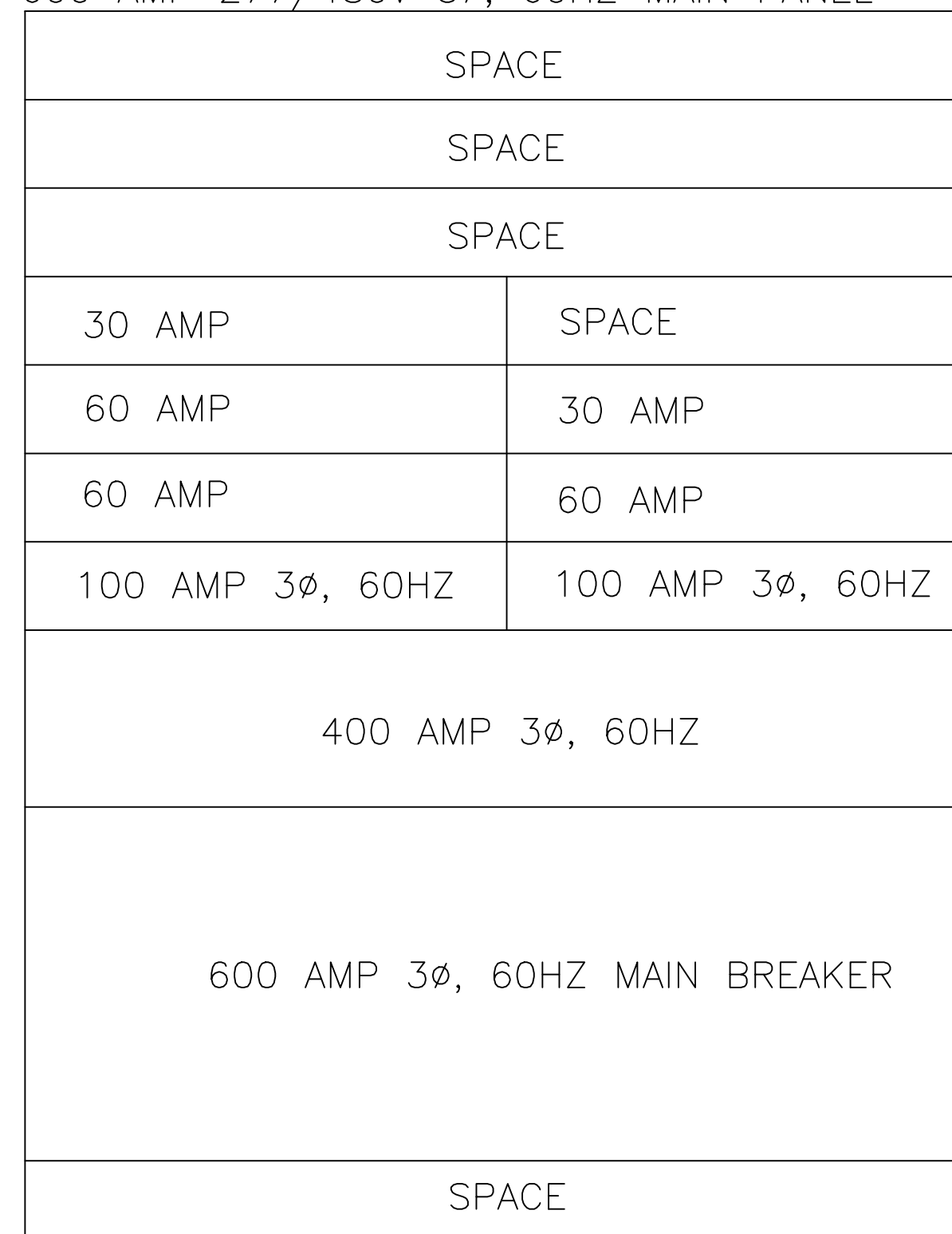
DRAWING FILE NO:

SHEET TITLE:
ELECTRICAL SPECIFICATIONS

SHEET NUMBER: E9 REVISION

1

600 AMP 277/480V 3φ, 60HZ MAIN PANEL



MOTOR NUMBER	DESCRIPTION	HORSEPOWER	FULL LOAD AMPS	KILOWATTS	VOLTAGE	PHASE	FED FROM	OVERCURRENT PROTECTION	FEEDER	DISC AT MOTOR		STARTER				CONTROLS					CONTACTS	REMARKS	
										REQUIRED	TYPE	TYPE	SIZE	VFD	FWD/REV/STOP	START/STOP	HND/OFF/AUTO	REM. START/STOP	CNTRL XFMR	PILOT LIGHT	NORMALLY OPEN		NORMALLY CLOSED
BP-1	BOOSTER PUMP				460	3	MP-1	60A-3P			●												
BP-2	BOOSTER PUMP				460	3	MP-1	60A-3P			●												
PS-1	NEW PUMPING STATION				460			175A-3P	3#1 AWG		●												
CP-1	CLEANING PUMP	10	3	460	3	MCC		3#12-3/4"			●												
CP-2	CLEANING PUMP	10	3	460	3	MCC		3#12-3/4"			●												
EF-1	R/O FEED PUMP	15			460	1	MCC	2#12-3/4"			●												
EF-2	RESERVOIR #2 PUMP				460	1	MCC	2#12-3/4"			●												
P-1	P1	15			460	1	MCC	2#12-3/4"			●												
P-2	P2	15			460	1	MCC	2#12-3/4"			●												

CIR	BKR	WATTAGE	LTG	REC	MIS	REMARKS	REMARKS	MIS	REC	LTG	WATTAGE	BKR	CIR
		Aφ	Bφ	Cφ							Aφ	Bφ	Cφ
1						PUMPING ST.							2
3	175												4
5													6
7	60					CDP							8
9													10
11													12
13													14
15													16
17													18
19													20
21													22
23													24
25													26
27													28
29													30

CIR	BKR	WATTAGE	LTG	REC	MIS	REMARKS	REMARKS	MIS	REC	LTG	WATTAGE	BKR	CIR
		Aφ	Bφ	Cφ							Aφ	Bφ	Cφ
1						INTERIOR							2
3						EXTERIOR							4
5						EXHAUST FAN							6
7													8
9													10
11													12

POWER	LIGHTING
DUPLEX RECEPTACLE	SURFACE MOUNTED 2X4 FLUORESCENT (TWO T8 LAMPS)
QUAD RECEPTACLE	EMERGENCY DC BATTERY PACK WITH REMOTE HEADS
MOTOR WITH DISCONNECT SWITCH	EXTERIOR LED
TRANSFORMER	SINGLE POLE SWITCH
PANEL / MCC	TWO POLE SWITCH
JUNCTION BOX	
VARIABLE SPEED DRIVE	
FUSE	
FUSED DISCONNECT SWITCH	

1 PROPOSED MOTOR, LIGHTING & PANEL SCHEDULES

E9 N.T.S.

