WATER SYSTEM EXTENSIONS
COLUMBIA/ADAIR UTILITIES DISTRICT
ADAIR COUNTY, KENTUCKY

PROVIDENCE AREA WATER LINE EXTENSION

STATE OF KENTUCKY
DERON S. BYRNE
23127
LICENSED PROFESSIONAL ENGINEER

Monarch Engineering, Inc.
556 CARLTON DRIVE
LAWRENCEBURG, KY 40342

DRAWN BY: JRC	DATE: JAN 2010	REVISED	SHEET 10
CHECKED BY: DSB	SCALE: 1"=100'		
CHECKED BY: DMB	PROJECT: 1049		

WATER SYSTEM EXTENSIONS
COLUMBIA/ADAIR UTILITIES DISTRICT
ADAIR COUNTY, KENTUCKY

PROVIDENCE AREA WATER LINE EXTENSION

STATE OF KENTUCKY
DERON S. BYRNE
23127
LICENSED PROFESSIONAL ENGINEER

Monarch Engineering, Inc.
556 CARLTON DRIVE
LAWRENCEBURG, KY 40342

DRAWN BY: JRC	DATE: JAN 2010	REVISED	SHEET 11
CHECKED BY: DSB	SCALE: 1"=100'		
CHECKED BY: DMB	PROJECT: 1049		

WATER SYSTEM EXTENSIONS
COLUMBIA/ADAIR UTILITIES DISTRICT
ADAIR COUNTY, KENTUCKY

PROVIDENCE AREA WATER LINE EXTENSION

STATE OF KENTUCKY
DERON S. BYRNE
23127
LICENSED PROFESSIONAL ENGINEER

Monarch Engineering, Inc.
556 CARLTON DRIVE
LAWRENCEBURG, KY 40342

DRAWN BY: JRC	DATE: JAN 2010	REVISED	SHEET 12
CHECKED BY: DSB	SCALE: 1"=100'		
CHECKED BY: DMB	PROJECT: 1049		

WATER SYSTEM EXTENSIONS
COLUMBIA/ADAIR UTILITIES DISTRICT
ADAIR COUNTY, KENTUCKY

PROVIDENCE AREA WATER LINE EXTENSION

STATE OF KENTUCKY
DERON S. BYRNE
23127
LICENSED PROFESSIONAL ENGINEER

Monarch Engineering, Inc.
556 CARLTON DRIVE
LAWRENCEBURG, KY 40342

DRAWN BY: JRC	DATE: JAN 2010	REVISED	SHEET 13
CHECKED BY: DSB	SCALE: 1"=100'		
CHECKED BY: DMB	PROJECT: 1049		

WATER SYSTEM EXTENSIONS
COLUMBIA/ADAIR UTILITIES DISTRICT
ADAIR COUNTY, KENTUCKY

PROVIDENCE AREA WATER LINE EXTENSION

STATE OF KENTUCKY
DERON S. BYRNE
23127
LICENSED PROFESSIONAL ENGINEER

Monarch Engineering, Inc.
556 CARLTON DRIVE
LAWRENCEBURG, KY 40342

DRAWN BY: JRC	DATE: JAN 2010	REVISED	SHEET 14
CHECKED BY: DSB	SCALE: 1"=100'		
CHECKED BY: DMB	PROJECT: 1049		

WATER SYSTEM EXTENSIONS
COLUMBIA/ADAIR UTILITIES DISTRICT
ADAIR COUNTY, KENTUCKY

PROVIDENCE AREA WATER LINE EXTENSION

STATE OF KENTUCKY
DERON S. BYRNE
23127
LICENSED PROFESSIONAL ENGINEER

Monarch Engineering, Inc.
556 CARLTON DRIVE
LAWRENCEBURG, KY 40342

DRAWN BY: JRC	DATE: JAN 2010	REVISED	SHEET 15
CHECKED BY: DSB	SCALE: 1"=100'		
CHECKED BY: DMB	PROJECT: 1049		

WATER SYSTEM EXTENSIONS
COLUMBIA/ADAIR UTILITIES DISTRICT
ADAIR COUNTY, KENTUCKY

PROVIDENCE AREA WATER LINE EXTENSION

STATE OF KENTUCKY
DERON S. BYRNE
23127
LICENSED PROFESSIONAL ENGINEER

Monarch Engineering, Inc.
556 CARLTON DRIVE
LAWRENCEBURG, KY 40342

DRAWN BY: JRC	DATE: JAN 2010	REVISED	SHEET 16
CHECKED BY: DSB	SCALE: 1"=100'		
CHECKED BY: DMB	PROJECT: 1049		

DESIGN CRITERIA

Controls : PRESSURE SWITCH
Power Service: 230 Volts, 3 Phase, 60 Cycle

PUMP DATA

Type: MULTISTAGE CENTRIFUGAL
Pump: 1&2
Capacity: 250 G.P.M. AT 180 FEET T.D.H.
Size: CRN 64-3-2
Motor: 30 H.P., 3520R.P.M.

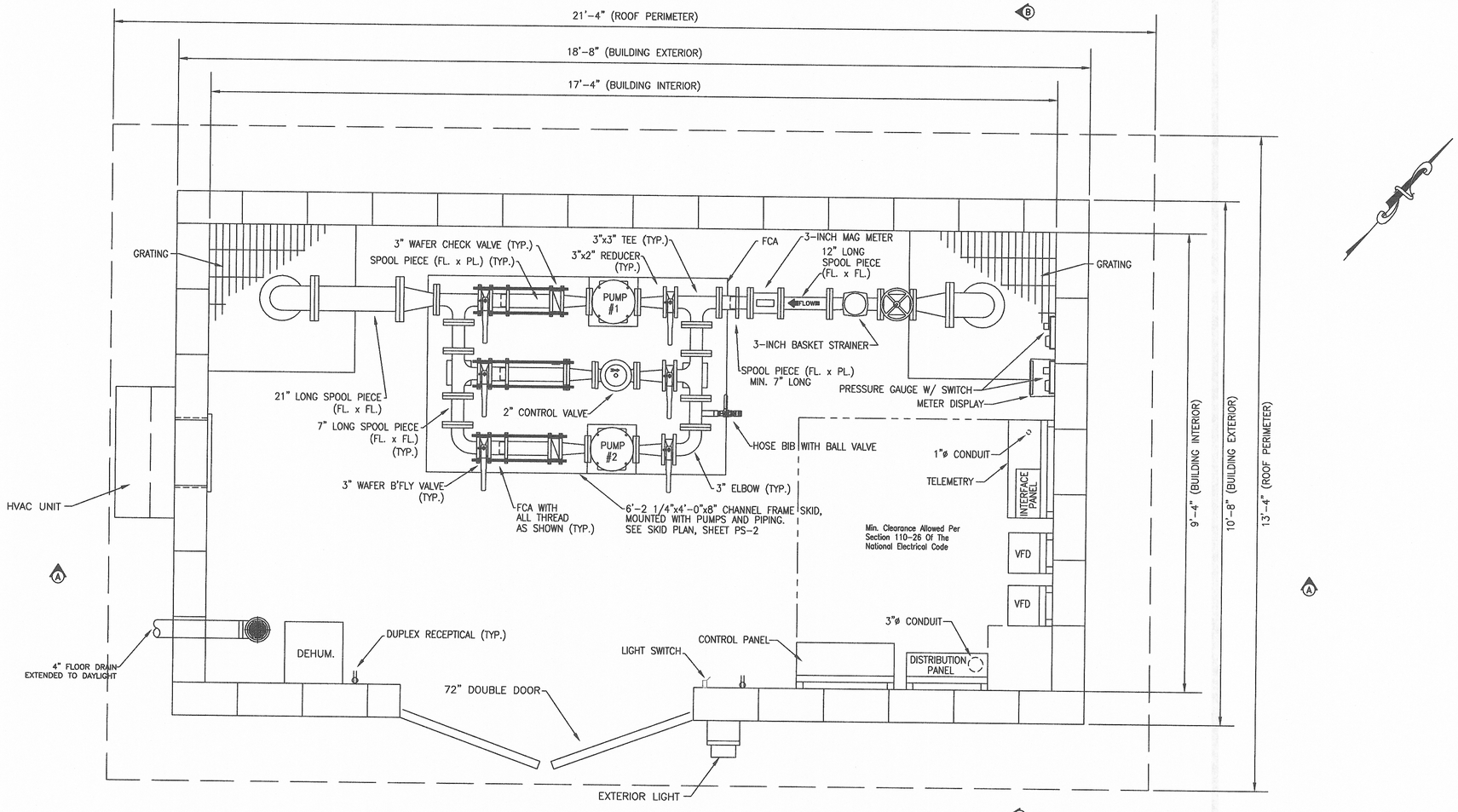
GENERAL NOTES:

ALL STATION PIPING SHALL DUCTILE IRON CL350

ALL PIPING AND EQUIPMENT SHALL BE EQUIPPED WITH ANSI STANDARD B16.42, CLASS 300 FLANGES

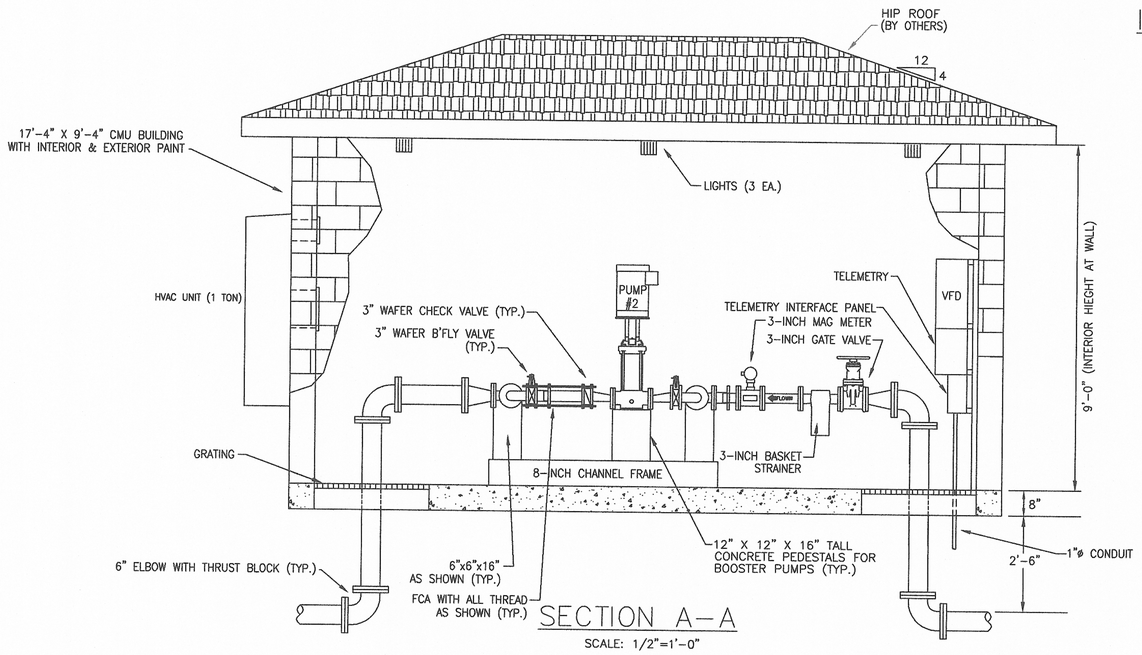
ALL PIPING AND EQUIPMENT SHALL BE ADEQUATELY SUPPORTED AND BRACED AS DIRECTED BY THE ENGINEER

FCA – FLANGED COUPLING ADAPTER



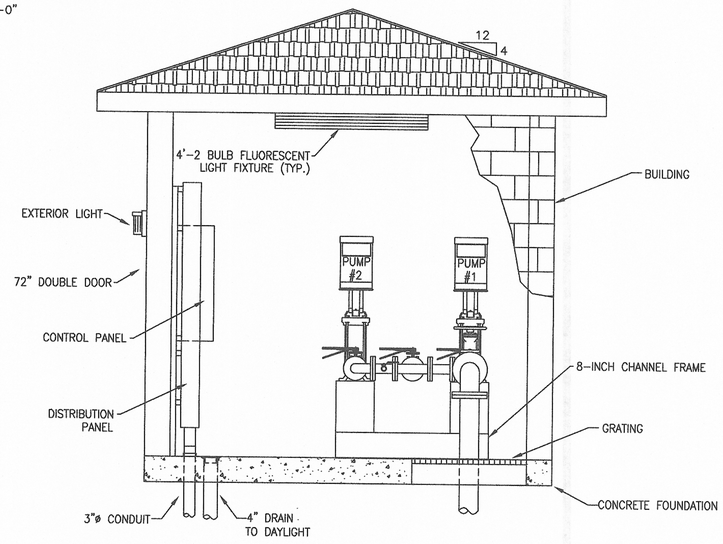
INTERIOR PLAN

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



SECTION A–A

SCALE: 1/2"=1'-0"



SECTION B–B

SCALE: 1/2"=1'-0"

Monarch Engineering, Inc.
556 CARLTON DRIVE
LAWRENCEBURG, KY 40342

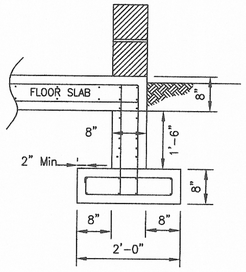
DESCRIPTION: SHEPHERD PUMP STATION

CUSTOMER: COLUMBIA/ADAIR UTILITIES DISTRICT
ADAIR COUNTY, KENTUCKY

PROJECT NO.	1049
DATE:	SEPT 2012
DRAWN BY:	JRC
CHECKED BY:	DSB
CHECKED BY:	DMB
SCALE:	AS NOTED

SHEET: **PS-1**

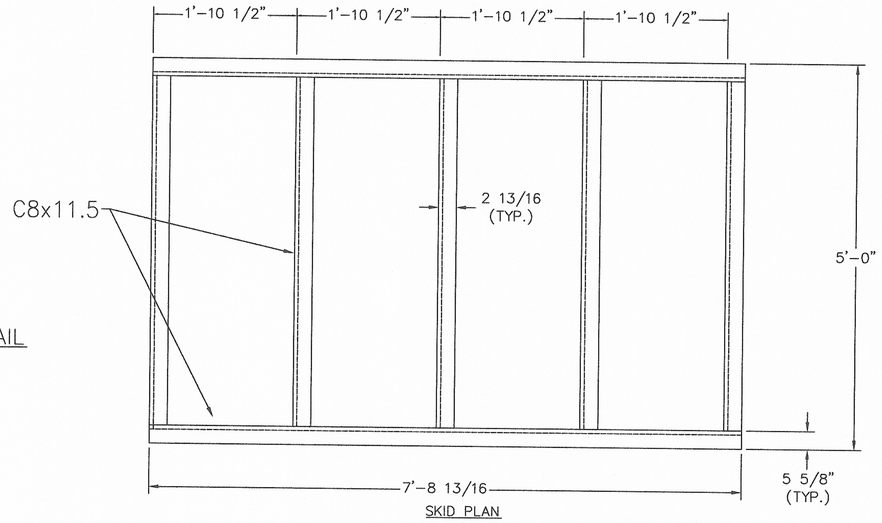
STATE OF KENTUCKY
DERON S. BYRNE
23127
LICENSED PROFESSIONAL ENGINEER



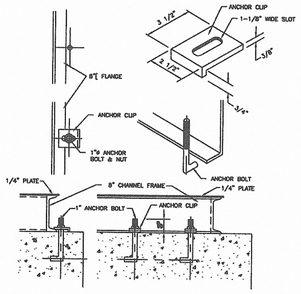
NOTE:
ALL CONCRETE SHALL HAVE #4 BARS
12-INCHES ON CENTER, EACH WAY, BOTH FACES.

TYPICAL SECTION
FOUNDATION & REINFORCING DETAIL

NOT TO SCALE

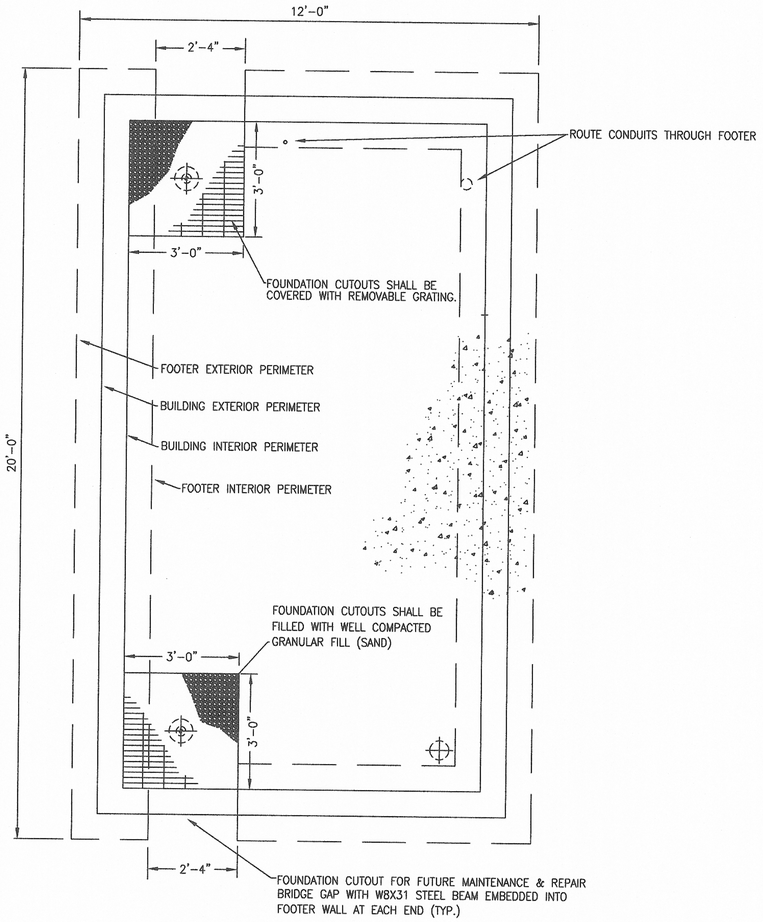


SKID PLAN
SCALE: 1" = 1'-0"

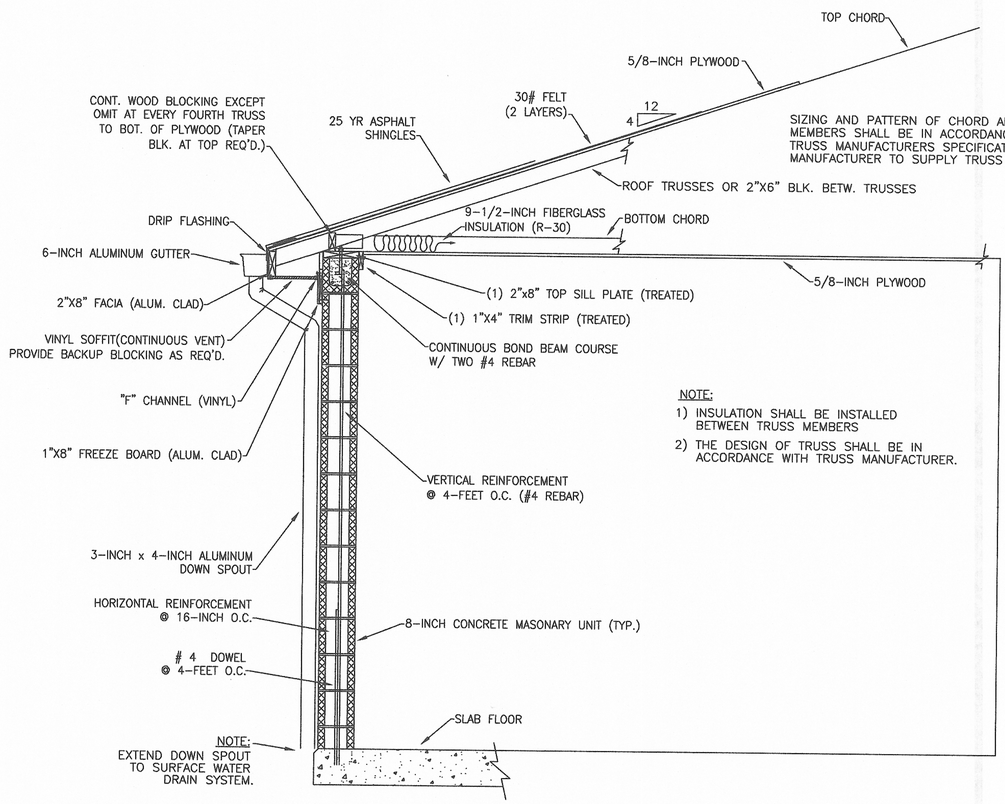


TYPICAL ANCHOR DETAIL

NOTE: ANCHOR CLIPS FURNISHED BY E.F.I.
ANCHOR BOLTS AND NUTS BY INSTALLER



FOUNDATION LAYOUT



NOTE:
1) INSULATION SHALL BE INSTALLED BETWEEN TRUSS MEMBERS
2) THE DESIGN OF TRUSS SHALL BE IN ACCORDANCE WITH TRUSS MANUFACTURER.

TYPICAL SECTION
CMU WALL & TRUSS DETAIL

NOT TO SCALE

Monarch Engineering, Inc.
556 CARLTON DRIVE
LAWRENCEBURG, KY 40342

DESCRIPTION: SHEPHERD RD PUMP STATION

CUSTOMER: COLUMBIA/ADAIR UTILITIES DISTRICT
ADAIR COUNTY, KENTUCKY

PROJECT NO. 1049
DATE: SEPT 2012
DRAWN BY: JRC
CHECKED BY: DSB
CHECKED BY: DMB
SCALE: AS NOTED

SHEET:
PS-2