



**GENERAL NOTES:**

- 1.) SEE SHEETS G-001 FOR COVER/SIGNATURE, PROJECT SITE AND VICINITY MAP
- 2.) SEE SHEET G-002 FOR DRAWING INDEX
- 3.) SEE THIS SHEET FOR MECHANICAL GENERAL NOTES.
- 4.) PROJECT ELEVATION DATUM IS NAVD88.
- 5.) FIELD VERIFY ALL DIMENSIONS SHOWN.

**THE FOLLOWING ABBREVIATIONS MAY BE USED ON THE DRAWINGS IN THIS VOLUME**

ANCH. = ANCHOR	OS = OUTSIDE
A.B. = ANCHOR BOLT	OSAY = OUTSIDE STEM AND YOKE (VALVES)
AC = ASPHALT CONCRETE	O TO O = OUT TO OUT
APPROX. = APPROXIMATE	PC = POINT OF CURVATURE
ARCH. = ARCHITECTURAL	PCF = POUNDS PER CUBIC FOOT
ARV = AIR RELEASE VALVE	PERF. = PERFORATED
AWS = ATTRACTION WATER SUPPLY	PL = PLATE
B.C. = BOLT CENTERS	PLF = POUNDS PER LINEAR FOOT
B.F. = BOTTOM FACE	PRE-FAB = PREVIOUSLY FABRICATED
BG = BACK GOUGE	PSF = POUNDS PER SQUARE FOOT
B.L. = BOTTOM LAYER	PSI = POUNDS PER SQUARE INCH
BLDG. = BUILDING	PSPD = POST SORT POOL DRAIN
BRG = BEARING	PT = POINT OF TANGENCY (CIVIL SHEETS)
B TO B = BACK TO BACK	PT. = POINT
C = CHANNEL	PTFE = POLYTETRAFLUORIDETHYLENE (TEFLON)
C TO C = CENTER TO CENTER	PVC = POLYVINYL CHLORIDE
C/E JT = CONTRACTION JOINT/EXPANSION JOINT	PVI = POINT OF VERTICAL INTERSECTION
CF = CUBIC FEET	RAD. = RADIUS
CI = CAST IRON	R.H. = ROUND HEAD
C.J. = CONSTRUCTION JOINT	REF = REFERENCE
CJP = COMPLETE JOINT PENETRATION	REINF. = REINFORCEMENT
CL = CENTERLINE	REQ'D = REQUIRED
CL2 = CHLORINE	R.O. = ROUGH OPENING
CLR = CLEAR	RT = RIGHT
CONC. = CONCRETE	SCH = SCHEDULE
CONN = CONNECTION	SHT = SHEET
CONT = CONTINUOUS	SIM = SIMILAR
CONT. JT. = CONTRACTION JOINT	STAG. SPL. = STAGGER SPLICE
C.M.P. = CORRUGATED METAL PIPE	STD = STANDARD
CP = COMPLETE PENETRATION	STIR. = STIRRUP
CRES = CORROSION RESISTING STEEL	STL. = STEEL
CSP = CORNER SUPPORT PIECE	S.F. = SQUARE FOOT
CSK = COUNTERSINK	SHLDR = SHOULDER
CU = COPPER	SQ = SQUARE
DET. = DETAIL	S.S. = STAINLESS STEEL
D&G = DRILL & GROUT	STA. = STATION
DIA. = DIAMETER	STC = STEEL TROWELED CONCRETE
DI = DUCTILE IRON	SYM = SYMMETRICAL
DIP = DUCTILE IRON PIPE	T & B = TOP AND BOTTOM
D/S = DOWNSTREAM	T.B.D. = TO BE DETERMINED
DWG = DRAWING	T.F. = TOP FACE
DWLS = DOWELS	T.J. = TROWELED JOINT
EA. = EACH	T.L. = TOP LAYER
EF. = EACH FACE	T.O. = TOP OF
E.L. = EACH LAYER	TOC = TOP OF CONCRETE
ELEV. = ELEVATION	TOF = TOP OF FOOTING
E.J. = EXPANSION JOINT	TOS = TOP OF SLAB
EQ.SP. = EQUALLY SPACED	TOW = TOP OF WALL
E.W. = EACH WAY	T.S. = TUBULAR STEEL
EXAM. = EXAMINATION	TYP. = TYPICAL
E.W. = EACH WAY	UNO = UNLESS NOTED OTHERWISE
EXIST. = EXISTING	U.N.O. = UNLESS NOTED OTHERWISE
F.B. = FLAT BAR	U/S = UPSTREAM
F.D. = FLOOR DRAIN	V = VERTICAL
F.F. = FAR FACE	VBS = VERTICAL BARRIER SCREEN
FG = FINISH GRADE	VC = VERTICAL CURVE
F.H. = FLAT HEAD	VERT. = VERTICAL
FLG = FLANGE	W/ = WITH
FT. = FOOT, FEET	WL = WATERLINE
F.W. = FLAT WASHER	WP = WELD PLATE
FWS = FACILITY WATER SUPPLY	W.P. = WORK POINT
GA. = GAUGE	W.S. = WATERSTOP
GAC = GRANULAR ACTIVATED CARBON	WCJ = WALL CONSTRUCTION JOINT
GALV. = GALVANIZED	WWF = WELDED WIRE FABRIC
GV = GATE VALVE	
H. = HORIZONTAL	
H.D. = HEAVY DUTY	
H.M. = HOLLOW METAL	
HOR. = HORIZONTAL	
HSS = HOLLOW STRUCTURAL SECTION	
ID = INSIDE DIAMETER	
IF = INVERT ELEVATION	
I.L. = INSIDE FACE	
IN. = INSIDE LAYER	
IN. = INCH, INCHES	
INFO = INFORMATION	
IS = INSIDE	
ISO JT = ISOLATION JOINT	
IWRC = INDEPENDENT WIRE ROPE CORE	
JFR = JUVENILE FISH RETURN	
JT. = JOINT	
KSI = KIPS PER SQUARE INCH	
L = ANGLE	
LF. = LINEAR FEET	
LFS = LAMPREY FLUME SUPPLY	
LG. = LONG	
LT = LEFT	
LTH = LENGTH	
LONG. = LONGITUDINAL	
L.P. = LOW POINT	
MAX. = MAXIMUM	
MIN. = MINIMUM	
M.B. = MACHINE BOLT	
MECH. = MECHANICAL	
MK = MARK	
MSE = MECHANICALLY STABILIZED EARTH	
NAT. = NATURAL	
N.C. = NO CHAMFER	
NF = NEAR FACE	
NO. = NUMBER	
NOM = NOMINAL	
NPS = NOMINAL PIPE SIZE	
NPT = NATIONAL PIPE THREAD	
NTS = NOT TO SCALE	
O.A.L. = OVER ALL LENGTH	
O.C. = ON CENTER	
O.D. = OUTSIDE DIAMETER	
OF = OUTSIDE FACE	
O.L. = OUTSIDE LAYER	
OPP = OPPOSITE	

**LEGEND:**

1. DETAILING CONVENTION SHALL BE INTERPRETED AS SHOWN BELOW:



DETAIL IDENTIFICATION SYMBOL

SHEET NUMBER ON WHICH DETAIL APPEARS

\* WHEN BLANK, DETAIL APPEARS ON THE SAME SHEET AS IT WAS TAKEN



SHEET NUMBER WHERE DETAIL WAS TAKEN \*

2. SECTIONING CONVENTION SHALL BE INTERPRETED AS SHOWN BELOW:



SECTION IDENTIFICATION SYMBOL

SHEET NUMBER ON WHICH SECTION APPEARS \*

\* WHEN BLANK, SECTION APPEARS ON THE SAME SHEET AS IT WAS TAKEN

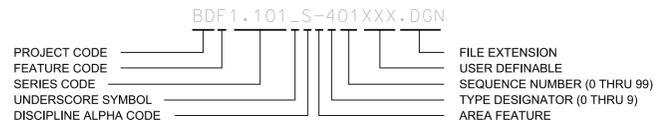


SHEET NUMBER WHERE SECTION WAS TAKEN \*

3. SHEET IDENTIFICATION CONVENTION SHALL BE INTERPRETED AS SHOWN BELOW:



4. FILE NAME CONVENTION SHALL BE INTERPRETED AS SHOWN BELOW:



5. AREA FEATURE DESIGNATOR FOR ALL SHEETS SHALL BE AS SHOWN BELOW:

- DENOTES GENERAL FEATURES
- D DENOTES DEMO
- P DENOTES PIPING
  
- B DENOTES ELECTRICAL \_\_\_ FEATURE
- C DENOTES ELECTRICAL \_\_\_ FEATURE
- E DENOTES ELECTRICAL \_\_\_ FEATURE
- I DENOTES ELECTRICAL \_\_\_ FEATURE



90 PERCENT REVIEW		DATE	APPR.
		DESCRIPTION	MARK

DESIGNED BY:	DATE:	SOLICITATION NO.:
DRAWN BY:	CHK BY:	CONTRACT NO.:
ISSUED BY:	DATE:	DRAWING NUMBER:
SCALE:	FILE NAME:	

BONNEVILLE LOCK AND DAM  
SECOND POWERHOUSE  
TURBULENCE REDUCTION DEVICE  
GENERAL NOTES AND LEGEND

SHEET IDENTIFICATION  
**G-003**  
SHEET 0 OF 0

**DRAWING INDEX**

REVISION MARK	FILE NAME	SHEET ID	DRAWING TITLE
<b>GENERAL</b>			
	BDF1.102_G-001xxx	G-001	COVER SHEET
	BDF1.102_G-002xxx	G-002	DREAWING INDEX
	BDF1.102_G-003xxx	G-003	GENERAL NOTES AND LEGEND
<b>STRUCTURAL</b>			
	BDF1.102_S-401xxx	S-401	ISOMETRIC AND ELEVATIONS
	BDF1.103_S-402XXX	S-402	SECTIONS
<b>MECHANICAL</b>			
	BDF1.102_M-501xxx	M-501	MECHANICAL DETAILS 1
	BDF1.102_M-502xxx	M-502	MECHANICAL DETAILS 2



<b>90 PERCENT REVIEW</b>	DATE	APPR.

<b>U.S. ARMY CORPS OF ENGINEERS PORTLAND DISTRICT PORTLAND, OR</b>	DESIGNED BY:	DATE:	SOLICITATION NO.:
	DRAWN BY: G2ECDCW		
	CKG BY:		CONTRACT NO.:
	SUBMITTED BY:		DRAWING NUMBER:
	PLOT SCALE: 1:1	PLOT DATE: 2/22/2012	FILE NAME: BDF1.102_G-002xxx
	ANSI D		

**BONNEVILLE LOCK AND DAM  
SECOND POWERHOUSE  
TURBULENCE REDUCTION DEVICE**

DRAWING INDEX

SHEET IDENTIFICATION  
**G002**  
SHEET 0 OF 0