

**ABBREVIATIONS**

AC	ASPHALTIC CONCRETE	MAX	MAXIMUM
AGGR	AGGREGATE	MH	MANHOLE
APPROX	APPROXIMATELY	MIN	MINIMUM
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MON	MONUMENT
AVG	AVERAGE		
BDY	BOUNDARY	N	NORTH
BLDG	BUILDING	NTS	NOT IN CONTRACT
BM	BENCH MARK		NOT TO SCALE
BOP	BOTTOM OF PIPE	OC	ON CENTER
BRC	BEARING	OD	OUTSIDE DIAMETER
BVC	BEGIN VERTICAL CURVE		
CB	CATCH BASIN	PC	POINT OF CURVE
CF	CURB FACE	PCT. %	PERCENT
CWS	CHILLED WATER SUPPLY	PI	POINT OF INTERSECTION
CWR	CHILLED WATER RETURN	PIV	POST INDICATOR VALVE
CJ	CONSTRUCTION JOINT	POC	POINT OF CONNECTION
CL	CENTERLINE	PSI	POUND-FORCE PER SQUARE INCH
CL#	CLAR	PT	POINT OF TANGENCY
CMP	CORRUGATED METAL PIPE	PVC	POLYVINYL CHLORIDE
CO	CLEANOUT	PVT	POINT OF VERTICAL CURVE
COL	COLUMN	PVMT	PAVEMENT
CONC	CONCRETE	PW	POTABLE WATER
CONSTR	CONSTRUCTION		
CONT	CONTINUATION	R	RADIUS
CP	CONCRETE PIPE	RAD	RIDGE
C TO C	CENTER TO CENTER	RCP	RADIAL
CU FT	CUBIC FEET	RD	REINFORCED-CONCRETE PIPE
CULV	CULVERT	RD	ROAD
CY	CUBIC YARD	RDCR	REDUCER
		REF	REFERENCE
		REIN	REINFORCEMENT
		REQD	REQUIRED
		REV	REVISION
		RG	ROUGH GRADE
		R/W	RIGHT-OF-WAY
Δ	DELTA = ANGLE	S	SLOPE
D	DUCT	SCHED	SCHEDULE
DEG	DEGREE	SD	STORM DRAIN
DET	DETAIL	SG	SUBGRADE
DI	DUCTILE IRON	SHT	SHEET
DIA. Ø	DIAMETER	SIM	SIMILAR
DWG	DRAWING	SO FT. SF	SQUARE FOOT
		SS	SANITARY SEWER LINE
		STA	STATION
		STD	STANDARD
		STL	STEEL
		SW	SIDEWALK
		T	TANGENT
		TEL	TELEPHONE LINE
		TC	TOP OF CURB
		TEL	TELEPHONE
		TG	TOP OF GRATE
		TOC	TOP OF CONCRETE
		TOPI	TOP OF PIPE
		TOPO	TOPOGRAPHY
		TW	TOP OF WALL
		TYP	TYPICAL
		UG	UNDERGROUND
		UON	UNLESS OTHERWISE NOTED
		VC	VERTICAL CURVE
		VCP	VITRIFIED CLAY PIPE
		VERT	VERTICAL
		VOL	VOLUME
		W	WEST
		W/	WITH
		W/O	WITHOUT
		WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
		WW	WASTE WATER
		WWF	WELDED WIRE FABRIC
		XFMR	TRANSFORMER
		YD	YARD
FH	FIRE HYDRANT		
FIN	FINISH		
FIN FL	FINISH FLOOR		
FG	FINISH GRADE		
FL	FLOOR		
FLG	FLOW LINE		
FOF	FACE OF FLANGE		
FS	FINISH SURFACE		
FT	FOOT FEET		
FTG	FOOTING		
GALV	GALVANIZED		
GA	GAGE		
GB	GRADE BREAK		
GPM	GALLONS PER MINUTE		
GR	GRADE		
GVL	GRAVEL		
HORIZ	HORIZONTAL		
HP	HIGH POINT		
ID	INSIDE DIAMETER		
INCH	INCH		
INCL	INCLUDE		
INTSCT	INTERSECTION		
INV	INVERT		
JT	JOINT		
L	LENGTH		
LB	POUND		

**LEGEND**

EXISTING	NEW	DESCRIPTION
---	---	CENTERLINE, & BUILDING OR STRUCTURE
---	---	FENCE LINE
---	---	ROAD
---	---	ASPHALT CONCRETE PAVING
---	---	GRAVEL
---	---	CONCRETE
---	---	DIRECTION OF SHEET FLOW
---	---	FLOWLINE
---	---	CLEANOUT
---	---	DRAIN LINE
---	---	POTABLE WATER
---	---	ELECTRICAL
---	---	STORM DRAIN
---	---	SANITARY SEWER
---	---	TELEPHONE/COMMUNICATIONS
---	---	WATER
---	---	POST INDICATOR VALVE
---	---	TELEPHONE/COMMUNICATIONS MANHOLE
---	---	FIRE HYDRANT
---	---	GATE VALVE
---	---	MANHOLE
---	---	STORM DRAIN CATCH BASIN
---	---	CULVERT
---	---	POWER POLE
---	---	GUARD POST
---	---	PLUG OR CAP
---	---	INDEX CONTOUR LINE
---	---	INTERMEDIATE CONTOUR LINE
---	---	CUT/FILL SLOPE
---	---	FINISH GRADE ELEVATION
---	---	FINISH SURFACE ELEVATION
---	---	FLOW LINE ELEVATION
---	---	TOP OF CURB
---	---	TOP OF WALL
---	---	INVERT ELEVATION
---	---	ROUGH GRADE ELEVATION
---	---	SECTION LETTER
---	---	DRAWING ON WHICH SECTION IS SHOWN
---	---	SECTION CUT
---	---	DETAIL OR ASSEMBLY NUMBER
---	---	DRAWING ON WHICH DETAIL IS SHOWN
---	---	DETAIL INDICATION
---	---	DETAIL OR ASSEMBLY NUMBER
---	---	REF
---	---	DRAWINGS FROM WHICH DETAIL IS SHOWN
---	---	DRAWING ON WHICH DETAIL IS DRAWN
---	---	DETAIL TITLE
---	---	PROFILE NUMBER
---	---	DRAWING ON WHICH PROFILE IS SHOWN
---	---	PROFILE
---	---	REVISION CLOUD
---	---	REVISION TRIANGLE & NUMBER ON FACE OF DRAWING

**GENERAL NOTES**

1. THE TOPOGRAPHY WITHIN THE PROPERTY LINES, WAS GENERATED BY COMPUTER METHODS FROM A SURVEY PERFORMED BY J-U-B ENGINEERS, INC., KENNEWICK, WASHINGTON, DATED SEPTEMBER 23, 1993.
2. HORIZONTAL AND VERTICAL DATUMS ARE ALSO FROM THE J-U-B ENGINEERS, INC. SURVEY, AND ARE AS FOLLOWS:  
 HORIZONTAL DATUM: ALL BEARINGS AND COORDINATES SHOWN ARE STATE PLANE, WASHINGTON STATE PLANE LAMBERT SOUTH ZONE NAD 83/91  
 VERTICAL DATUM: NAVD 88
3. STRAIGHT GRADE BETWEEN SPOT ELEVATIONS, UNLESS OTHERWISE SHOWN ON PLANS.
4. NOTES RELATING TO A SPECIFIC DRAWING WILL BE FOUND ON THE DRAWING FOR WHICH THEY ARE APPLICABLE.
5. DIMENSIONS, ELEVATIONS AND LOCATION OF EXISTING UTILITIES ARE TO BE VERIFIED PRIOR TO START OF CONSTRUCTION BY CONTRACTOR.
6. AN EXISTING 6" WATERLINE IS LOCATED ALONG THE WEST SIDE OF THE SOUTHWEST ARM, WHICH BEGINS AT A WELL PUMP POINT NEAR THE SOUTHWEST END STATION AND TERMINATES AT A POND LOCATED ADJACENT TO THE CORNER STATION PAD ON THE SOUTHWEST SIDE. EXACT LOCATION AND ALIGNMENT SHALL BE VERIFIED IN THE FIELD.
7. FINISHED SURFACES SHALL BE SLOPED UNIFORMLY FROM HIGH POINTS, RIDGE LINES, AND AROUND FOUNDATIONS TO FLOW LINES AND AREA DRAINS UNLESS INDICATED OTHERWISE.
8. STORM DRAIN, SANITARY SEWER, ROOF DRAINS, AND UTILITY LINES SHALL BE SLOPED AT A UNIFORM GRADE BETWEEN INVERT ELEVATIONS.
9. BORING SUMMARIES ARE FROM A FOUNDATIONS INVESTIGATION CONDUCTED BY DAMES AND MOORE. A COPY OF THE REPORT IS ON FILE WITH THE CLIENT.
10. ALL UNDERGROUND PIPES SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION FROM HEAVY MOVING EQUIPMENT.

**STANDARD PLANS**

TO THE EXTENT REFERENCED, THE FOLLOWING WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD, BRIDGES AND MUNICIPAL CONSTRUCTION SHALL BE CONSIDERED PART OF THE CONSTRUCTION DOCUMENTS:

PLAN	TITLE	LAST DATE
B-11	PIPE COMPACTION DESIGNS AND BACKFILL	1/25/80
B-18c	PIPE BEDDING FOR SANITARY SEWERS IN TRENCHES ONLY	2/21/91
B-19	HYDRANT SETTING TYPE A & B	10/ 3/83
C-1	BEAM GUARDRAIL (W BEAM), SHEET 1 OF 2	6/ 4/93
C-1	BEAM GUARDRAIL (W BEAM), SHEET 2 OF 2	6/ 4/93
F-1	CEMENT CONCRETE CURBS AND GUTTERS	3/13/92
F-2b	EXTRUDED CURB	2/21/91
G-9	SIGN MOUNTING DETAILS, SHEET 2 OF 3	11/16/90
H-5c	PAVEMENT MARKINGS	7/17/81
H-6	SURVEY MONUMENTS	7/17/81
H-13	TYPE 1 BOLLARD	3/15/91
H-13b	TYPE 2 BOLLARD	3/15/91
I-1	REST AREA BUILDING DETAILS SEPTIC TANK	11/26/79
I-1a	REST AREA BUILDING DETAILS DRAIN FIELD	11/26/79
J-10	ELECTRICAL CONDUIT PLACEMENT	3/ 7/88
L-2	CHAIN LINK FENCE, SHEET 1 OF 2	5/24/91
L-2	CHAIN LINK FENCE, SHEET 2 OF 2	5/24/91
L-3	CHAIN LINK GATES	1/21/85
L-6	ACCESS CONTROL GATE	1/21/85

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9				9				DATE		
8				8				DRAWN	WRB	
7				7				CHECKED		
6				6				ENGINEER		
5				5				PROJ MGR		
4				4				CLIENT		
3				3						
2				2						
1				1	10/31/95	TDM	PRELIMINARY DESIGN REVIEW			
NO.	DATE	APRD BY	DESCRIPTION OF REVISION	NO.	DATE	APRD BY	ISSUED FOR			

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 SITE NO. 1 - HANFORD, WASHINGTON

TITLE	SHEET NUMBER	CONTRACT NUMBER	PROJECT NUMBER
GENERAL NOTES, LEGEND & ABBREVIATIONS	NONE	PP150969	8094
		<b>WA-C-002</b>	

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