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ABBREVIATIONS

AC	ASPHALTIC CONCRETE
AGGR	AGGREGATE
APPROX	APPROXIMATELY
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AVG	AVERAGE
BC	BEGIN CURVE
BDY	BOUNDARY
BLDG	BUILDING
BM	BENCH MARK
BOP	BOTTOM OF PIPE
BRG	BEARING
BTE	BEAM TUBE ENCLOSURE
C	COMMUNICATION
C TO C	CENTER TO CENTER
CF	CURB FACE
CJ	CONSTRUCTION JOINT
CL, ℄	CENTERLINE
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT, CONDUIT ONLY, CONTRACTION JOINT
COL	COLUMN
CONC	CONCRETE
CONSTR	CONSTRUCTION
CONT	CONTINUATION
CP	CONCRETE PIPE
CU FT	CUBIC FEET
CULV	CULVERT
CY	CUBIC YARD
Δ	DELTA = ANGLE
D	DUCT
DEG	DEGREE
DET	DETAIL
DI	DUCTILE IRON
DIA, Ø	DIAMETER
DL	DRAIN LINE
DWG	DRAWING
E	EAST, ELECTRICAL
EA	EACH
EC	END CURVE
EDB	ELECTRICAL DUCT BANK
EJ	EXPANSION JOINT
EL, ELEV	ELEVATION (HEIGHT)
ELEC	ELECTRICAL
ELL	ELBOW
EMH	ELECTRICAL MANHOLE
EPB	ELECTRICAL PULLBOX
EV	ELECTRICAL VAULT (PROVIDED BY OTHERS)
EVC	END VERTICAL CURVE
EW	EACH WAY
EXIST, EX	EXISTING
FIN	FINISH
FIN FL	FINISH FLOOR
FG	FINISH GRADE
FL	FLOOR, FLOW LINE
FS	FINISH SURFACE
FT	FOOT, FEET
FTG	FOOTING
GALV	GALVANIZED
GA	GAGE
GB	GRADE BREAK
GND	GROUND ⚠1
GR	GRADE
HORIZ	HORIZONTAL
HP	HIGH POINT
ID	INSIDE DIAMETER
IN	INCH
INCL	INCLUDE
INTSCT	INTERSECTION
INV	INVERT
JB	JUNCTION BOX
JT	JOINT
L	LENGTH
MAX	MAXIMUM
MIN	MINIMUM
N	NORTH
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
PCT, %	PERCENT
PI	POINT OF INTERSECTION
POC	POINT OF CONNECTION
PT	POINT OF TANGENCY
PUD	BENTON COUNTY PUBLIC UTILITY DISTRICT NO 1
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
R	RADIUS, RIDGE
RAD	RADIAL
RCP	REINFORCED-CONCRETE PIPE
RD	ROAD
REF	REFERENCE
REINF	REINFORCEMENT
REQD	REQUIRED
REV	REVISION
RG	ROUGH GRADE
R/W	RIGHT-OF-WAY
S	SLOPE, SOUTH
SCH, SCHED	SCHEDULE
SG	SUBGRADE
SHT	SHEET
SIM	SIMILAR
SQ FT, SF	SQUARE FOOT
STA	STATION
STD	STANDARD
STL	STEEL
SW	SIDEWALK
T	TANGENT, TELEPHONE
TEL	TELEPHONE
TG	TOP OF GRATE
TOC	TOP OF CONCRETE
TOP	TOP OF PIPE
TOPO	TOPOGRAPHY
TOV	TOP OF VAULT
TW	TOP OF WALL
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
W	WEST
w/	WITH
WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
WWF	WELDED WIRE FABRIC
XFMR	TRANSFORMER ⚠1
YD	YARD

⚠2

LEGEND

EXISTING	NEW	DESCRIPTION
		CENTERLINE, ℄
		BUILDING OR STRUCTURE
		FENCE LINE
		ROAD
		ASPHALT CONCRETE PAVING
		MULTIPLE BITUMINOUS SURFACE
		CONCRETE ⚠2
		DIRECTION OF SHEET FLOW
		FLOWLINE
E	E	ELECTRICAL BURIED CABLE (PROVIDED BY OTHERS)
EDB	EDB	ELECTRICAL DUCT BANK
T	T	BURIED TELEPHONE CABLE (PROVIDED BY OTHERS)
(530)	530	INDEX CONTOUR LINE
		INTERMEDIATE CONTOUR LINE
TOP / TOE	TOP / TOE	CUT/FILL SLOPE
(531.00) FG	531.00 FG	FINISH GRADE ELEVATION
(532.50) FS	532.50 FS	FINISH SURFACE ELEVATION
(533.65) FL	533.65 FL	FLOW LINE ELEVATION
(531.50) TC	531.50 TC	TOP OF CURB
(537.00) TW	537.00 TW	TOP OF WALL
(531.00) INV	531.00 INV	INVERT ELEVATION
(531.00) RG	531.00 RG	ROUGH GRADE ELEVATION
SECTION LETTER; DRAWING ON WHICH SECTION IS SHOWN		SECTION CUT ⚠2
DETAIL OR ASSEMBLY NUMBER; DRAWING ON WHICH DETAIL IS SHOWN		DETAIL INDICATION
SECTION OR DETAIL; REF; DRAWINGS FROM WHICH SECTION OR DETAIL IS SHOWN; DRAWING ON WHICH SECTION OR DETAIL IS DRAWN		SECTION OR DETAIL TITLE
PROFILE NUMBER; DRAWING ON WHICH PROFILE IS SHOWN		PROFILE
REVISION TRIANGLE & NUMBER ON FACE OF DRAWING		REVISION CLOUD

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: THE COORDINATE GRID SYSTEM ORIGINATES AT THE VERTEX POINT (N 410990.1636, E 1915712.5766) AND IS CONSIDERED COINCIDENT WITH STATE PLANE COORDINATES AT THAT POINT AND ALSO INDICATED AS STATION 0+00.00 FOR EITHER BEAM TUBE ARM. REFERENCE STATE PLANE IS WASHINGTON STATE PLANE LAMBERT SOUTH ZONE NAD 83/91

   VERTICAL DATUM: NAVD 88 BENCH MARK "McKINLEY"

   (AVG LAT. 46°27'25.68") GRID FACTOR 0.999917130 ⚠1
   (AVG ELEV. 532.80) SEA LEVEL FACTOR 0.999974515

   COMBINED PROJECT SCALE FACTOR = 0.999891645

   STATE PLANE 999.891645' = 1000.000' MEASURED GROUND.
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. BURIED ELECTRICAL CABLE, ELECTRICAL VAULTS, SWITCHGEAR AND TRANSFORMERS ARE SHOWN FOR INFORMATION ONLY. THESE ITEMS ARE PROVIDED BY OTHERS.
8. ACCESS ROAD FROM ROUTE 10 TO CORNER STATION PAD SHALL RECEIVE A MULTIPLE BITUMINOUS TREATMENT. THE ROAD IS 1961.07 FEET LONG AND 24 FEET WIDE.
9. FINISHED SURFACES SHALL BE SLOPED UNIFORMLY FROM HIGH POINTS, RIDGE LINES, AND AROUND FOUNDATIONS TO FLOW LINES AND AREA DRAINS UNLESS INDICATED OTHERWISE. ⚠2

E D C B A

REFERENCES

DRAWING NO.	DESCRIPTION

REVISIONS

NO.	DATE	BY	CHKD	ENGR	PROJ	DESCRIPTION
2	4-19-96	WRB	TOM	[illegible]	MDW	CHANGE ORDER NO. 4
1	2-29-96	WRB	TDM	JB	MDW	CHANGE ORDER NO. 2

⚠0 ISSUED FOR CONSTRUCTION		
DRAWN	WRB	1-19-96
CHECKED	MP	1-19-96
ENGINEER	JB	1-19-96
PROJ	MDW	1-19-96

PARSONS
100 WEST WALNUT STREET
PASADENA, CALIFORNIA

LIGO
CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LASER INTERFEROMETER GRAVITATIONAL-WAVE OBSERVATORY
BTE SITEWORK & FABRICATION - HANFORD, WA

TITLE: CIVIL GENERAL NOTES, LEGEND & ABBREVIATIONS

SCALE: NONE | CONTRACT NUMBER: PP150969 | PROJECT NUMBER: 8094

SHEET NUMBER: BT-C-002 | REVISIONS: ⚠2

LIGO-D960708-[illegible]

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