ABBREVIATIONS

AGGR APPROX

ASTM

BOP

C TO C

COL CONC CONSTR CONT

CU FT

DIA, Ø

EXIST, EX

FIN FL

AGGREGATE

AVERAGE

BEGIN CURVE BOUNDARY

BENCH MARK

CATCH BASIN

CURB FACE

CENTERLINE

CLEANOUT.

COLUMN

CONCRETE

CONSTRUCTION

CONTINUATION

CONCRETE PIPE

CARBON STEEL

CUBIC FEET

CUBIC YARD

DELTA = ANGLE

DUCTILE IRON

DIAMETER DRAIN LINE

DRAWING

ELECTRICAL

ELECTRICAL

EACH WAY

FIRE HYDRANT

FINISH FLOOR

FINISH GRADE

FACE OF FLANGE

FINISH SURFACE

FLOW LINE FLANGE

FOOT, FEET FOOTING

FIRE WATER

GALVANIZED GAGE

GRAVEL

HORIZONTA

GRADE BREAK

GALLONS PER MINUTE

EXISTING

FINISH

FLOOR.

FI BOW

ELECTRICAL DUCT BANK

EXPANSION JOINT ELEVATION (HEIGHT)

ELECTRICAL MANHOLE

ELECTRICAL PULLBOX

END VERTICAL CURVE

ELECTRICAL VAULT

CULVERT

DEGREE

DETAIL

CONDUIT ONLY,

CONTRACTION JOINT

COMMUNICATION

CORRUGATED METAL PIPE

COMMUNICATIONS PULLBOX

CHILLED WATER RETURN

CHILLED WATER SUPPLY

BOTTOM OF PIPE

BUILDING

BEARING

APPROXIMATELY

ASPHALTIC CONCRETE MAXIMUM MANHOLE MIN MINIMUM . ---- --- ---- ---- -----AMERICAN SOCIETY FOR TESTING MONUMENT AND MATERIALS **NORTH** NOT IN CONTRACT NIC NTS NOT TO SCALE ON CENTER OUTSIDE DIAMETER BEGIN VERTICAL CURVE POINT OF CURVE PERCENT POINT OF INTERSECTION POST INDICATOR VALVE PIVC POC POVC PSI CENTER TO CENTER POINT OF INTERSECTION, VERTICAL CURVE CONSTRUCTION JOINT

POINT OF CONNECTION POINT ON VERTICAL CURVE POUND-FORCE PER SQUARE INCH POINT OF TANGENCY POLYVINYL CHLORIDE PAVEMENT POTABLE WATER

RIDGE REINFORCED-CONCRETE PIPE REDUCER REFERENCE REINFORCEMENT REQUIRED REVISION ROUGH GRADE RIGHT-OF-WAY

RCP

REINF REQD

SOUTH SCHEDULE STORM DRAIN SUBGRADE SHEET SIMILAR SOUARE FOOT SANITARY SEWER STATION STANDARD

TANGENT. TELEPHONE TOP OF CURB TELEPHONE TOP OF GRATE TOC TOP TOPO TOP OF CONCRETE TOP OF PIPE TOPOGRAPHY TOP OF WALL TYPICAL

> UNDERGROUND UNLESS OTHERWISE NOTED VERTICAL CURVE VITRIFIED CLAY PIPE VERTICAL VOLUME

WEST, WATER WITH WITHOUT WASHINGTON STATE DEPARTMENT WSDOT OF TRANSPORTATION WASTE WATER WELDED WIRE FABRIC

XFMR TRANSFORMER HIGH POINT YARD

UON

VC VCP VERT

W/0

WW

WWF

INSIDE DIAMETER INCLUDE INTERSECTION

JUNCTION BOX LENGTH POUND

LEGEND

DESCRIPTION <u>NEW</u> -----CENTERLINE, & BUILDING OR STRUCTURE

FENCE LINE

CLEANOUT

DRAIN LINE

ELECTRICAL

STORM DRAIN

TELEPHONE

WATER

SANITARY SEWER

POTABLE WATER

ELECTRICAL DUCT BANK

ASPHALT CONCRETE PAVING

MULTIPLE BITUMINOUS SURFACE

ROAD

----x----x---electrical term market with describes were undertak with dispersion ____ r -- -- - 1 L r — — — ¬

EXISTING

L ___ __ ___

--- -- --

___c0

--₩--

-O-*PP*

• GP

CONCRETE DIRECTION OF SHEET FLOW FLOWLINE _____

____co ----DL----_____*DL*____ ----*PW*---m m pW m m ---- *E*---ten and the ten and ten £ and ten and ten ten --- EDB -------- *E*--------*SD* -------------*T*--------W----___.W____

> FIRE WATER --- FW ----CHILLED WATER SUPPLY --- CWS ---CHILLED WATER RETURN ---- CWR ----COMMUNICATIONS FIRE HYDRANT

GATE VALVE MANHOLE STORM DRAIN CATCH BASIN CULVERT GUARD POST *GP PLUG OR CAP ______

—— *(530)*——----- 530 ---- INDEX CONTOUR LINE INTERMEDIATE CONTOUR LINE

CUT/FILL SLOPE (531.00) FG FINISH GRADE ELEVATION (532, 50) FS FINISH SURFACE ELEVATION (533.65) FL FLOW LINE ELEVATION (531.50) TC TOP OF CURB (537.00) TW TOP OF WALL

(531.00) INV INVERT ELEVATION (531.00) RG ROUGH GRADE ELEVATION

SECTION CUT

DETAIL TITLE

PROFILE

REVISION CLOUD

— — DRAWING ON WHICH SECTION IS SHOWN DETAIL OR ASSEMBLY NUMBER DRAWING ON WHICH

SECTION LETTER

DETAIL INDICATION DETAIL IS SHOWN

— DETAIL OR ASSEMBLY NUMBER - DRAWINGS FROM WHICH

DETAIL IS SHOWN DRAWING ON WHICH DETAIL IS DRAWN

PROFILE NUMBER

DRAWING ON WHICH - DRAWING ON WHICH PROFILE IS SHOWN

- REVISION TRIANGLE & NUMBER ON FACE OF

GENERAL NOTES

I. 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:

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 (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. APPROXIMATE ALIGNMENT OF WATERLINE IS SHOWN ON SHEETS WA-C-031 THRU WA-C-040. SEE DETAIL 7, SHEET WA-C-055.

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, 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.

II. WELL PUMP AT SOUTHWEST END STATION SHALL BE ENCLOSED WITH A 7'x9'x8'HIGH PREFABRICATED SHELTER WITH STANDARD DOOR, ANCHORED TO CONCRETE SLAB.

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 I OF 2	6/ 4/93			
C-1	BEAM GUARDRAIL (W BEAM), SHEET 2 OF 2	6/ 4/93			
C-2p	GUARDRAIL PLACEMENT	6/19/92			
C-7	BEAM GUARDRAIL TERMINAL SECTION (DESIGN G)	1/21/85			
F-1 F-2b	CEMENT CONCRETE CURBS AND GUTTERS EXTRUDED CURB	3/13/92 2/21/91			
G-40	ROADSIDE SIGN STRUCTURES ON TIMBER POSTS	10/11/93			
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 I BOLLARD (GUARD POST)	3/15/91			
H-13a	TYPE 2 BOLLARD (GUARD POST)	3/15/91			
I-/	REST AREA BUILDING DETAILS SEPTIC TANK	11/26/79			
I-/a	REST AREA BUILDING DETAILS DRAIN FIELD	11/26/79			
J-10	ELECTRICAL CONDUIT PLACEMENT	3/ 7/88			
L-2 L-2 L-3 L-6	CHAIN LINK FENCE, SHEET I OF 2 CHAIN LINK FENCE, SHEET 2 OF 2 CHAIN LINK GATES ACCESS CONTROL GATE	5/24/91 5/24/91 1/21/85 1/21/85			

										\triangle		
] [÷				DRAWN	WRB	
] [CHECKED		
] <u>S</u> [ENGINEER		
										PROJ		
] [MAN	FINAL DESIGN REVIEW & BID			
			A /	10/31/95	WRB		TDM		PRELIMINARY DESIGN REVIEW			
DRAWING NO.	DESCRIPTION		NO.	DATE	BY	CHKD	ENGR	PROJ	DESCRIPTION			



100 WEST WALNUT STREET PASADENA, CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LASER INTERFEROMETER GRAVITATIONAL-WAVE OBSERVATORY SITE NO. I - HANFORD, WASHINGTON

GENERAL NOTES, LEGEND & ABBREVIATIONS

PP150969 8094 WA-C-002 B

LIGOWAF3.BDR