MIN

MON

NIC

NTS

PCT, %

STL SW

TEL TG TOC TOP TOPO TW

UON

VC VCP VERT VOL

W/0

WW

WWF

XFMR

C 5/22/96 WRB W CP SUN BID ADDENDUM #2

NO. DATE BY CHKD ENGR PROJ

WSDOT

MAXIMUM

MANHOLE

MINIMUM

MONUMENT

NOT IN CONTRACT

OUTSIDE DIAMETER

POINT OF CURVE

POINT OF INTERSECTION

POST INDICATOR VALVE

POINT OF CONNECTION

POINT OF TANGENCY

POLYVINYL CHLORIDE

POTABLE WATER

POINT ON VERTICAL CURVE

REINFORCED-CONCRETE PIPE

POUND-FORCE PER SOUARE INCH

POINT OF INTERSECTION, VERTICAL CURVE

NOT TO SCALE

ON CENTER

PERCENT

PAVEMENT

RADIUS,

RIDGE

RADIAL

REDUCER

REFERENCE

REQUIRED

REVISION

SCHEDULE

SUBGRADE

SHEET

SIMILAR

STATION

STANDARD

SIDEWALK

TANGENT.

TELEPHONE

TELEPHONE

TOP OF PIPE

TOPOGRAPHY

TOP OF WALL

UNDERGROUND

VERTICAL CURVE

VITRIFIED CLAY PIPE

UNLESS OTHERWISE NOTED

WASHINGTON STATE DEPARTMENT

OF TRANSPORTATION

TYPICAL

VERTICAL

VOLUME

WATER

WITH WITHOUT

YARD

WASTE WATER

TRANSFORMER

WELDED WIRE FABRIC

TOP OF CURB

TOP OF GRATE

TOP OF CONCRETE

STORM DRAIN

SQUARE FOOT

SANITARY SEWER

REINFORCEMENT

ROUGH GRADE

RIGHT-OF-WAY

ASPHALTIC CONCRETE

AND MATERIALS

BEGIN VERTICAL CURVE

AMERICAN SOCIETY FOR TESTING

AGGREGATE

AVERAGE

BEGIN CURVE

BENCH MARK BOTTOM OF PIPE

CATCH BASIN

CURB FACE

CENTERLINE

CLEANOUT.

COLUMN

CONCRETE

CONDUIT ONLY,

CONSTRUCTION

CONTINUATION

CONCRETE PIPE

CARBON STEEL

CUBIC FEET

CUBIC YARD

DELTA = ANGLE

DUCTILE IRON

CULVERT

DUCT

DEGREE

DETAIL

DIAMETER DRAIN LINE

DRAWING

ELECTRICAL

END CURVE

ELECTRICAL

FACH WAY

FIRE HYDRANT

FINISH FLOOR

FINISH GRADE

FACE OF FLANGE FINISH SURFACE

FLOW LINE

FOOT, FEET

FIRE WATER

GALVANIZED

GRADE BREAK

GALLONS PER MINUTE

GAGE

GRAVEL

HORIZONTAL

HIGH POINT

INCLUDE INTERSECTION

INVERT

LENGTH

POUND

DESCRIPTION

DRAWING NO.

INSIDE DIAMETER

JUNCTION BOX

FOOTING

FLANGE

EXISTING

FINISH

ELBOW

ELECTRICAL DUCT BANK

EXPANSION JOINT

ELEVATION (HEIGHT)

ELECTRICAL MANHOLE

ELECTRICAL PULLBOX ELECTRICAL VAULT

END VERTICAL CURVE

CONTRACTION JOINT

COMMUNICATION

CENTER TO CENTER

CONSTRUCTION JOINT

CORRUGATED METAL PIPE

COMMUNICATIONS PULLBOX

CHILLED WATER RETURN

CHILLED WATER SUPPLY

BOUNDARY

BUILDING

BEARING

APPROXIMATELY

AC AGGR

ASTM

AVG

CONC CONSTR

CONT

CU FT

EXIST, EX

FIN FL

HORIZ

INCL INTSCT

CULV

APPROX

___x__x__x_

mmm mmm mmm

____co

_____DL____

--- EDB ---

_____ *SD* _____

___.W___

____FW ___

--- CWS ---

---- CWR ----

*GP

-----3

— 530 —

531.00 FG

<u>531.50</u>

531.00 TNV

531.00 PG

— DETAIL OR ASSEMBLY NUMBER

— DETAIL OR ASSEMBLY NUMBER

--- DRAWINGS FROM WHICH DETAIL IS SHOWN DRAWING ON WHICH

DESCRIPTION

CENTERLINE, &

FENCE LINE

ROAD

CONCRETE

FLOWLINE

CLEANOUT

DRAIN LINE

ELECTRICAL

STORM DRAIN

TELEPHONE

FIRE WATER

WATER

SANITARY SEWER

POTABLE WATER

ELECTRICAL DUCT BANK

CHILLED WATER SUPPLY

CHILLED WATER RETURN

STORM DRAIN CATCH BASIN

COMMUNICATIONS

FIRE HYDRANT

GATE VALVE

MANHOLE

CULVERT

POWER POLE

GUARD POST

PLUG OR CAP

CUT/FILL SLOPE

INDEX CONTOUR LINE

INTERMEDIATE CONTOUR LINE

FINISH GRADE ELEVATION

FLOW LINE ELEVATION

TOP OF CURB

TOP OF WALL

SECTION CUT

DETAIL TITLE

PROFILE

REVISION CLOUD

DETAIL INDICATION

INVERT ELEVATION

ROUGH GRADE ELEVATION

FINISH SURFACE ELEVATION

BUILDING OR STRUCTURE

ASPHALT CONCRETE PAVING

DIRECTION OF SHEET FLOW

MULTIPLE BITUMINOUS SURFACE

EXISTING

r --- -- 1

L______

r --- -- 1

L ___ __

___co

----DL----

----PW----

---- E----

---- *E*----

----SD----

----*T*----

_ _<u>a</u>_ _

-O-*PP*

--- --- --3

-- (530)**--**-

(531,00) FG

(532, 50) FS

(533. 65) FL

(531.50)

(537.00) TW

(531,00) INV

(531.00) RG

SECTION LETTER

- DRAWING ON WHICH

SECTION IS SHOWN

- DRAWING ON WHICH

DETAIL IS SHOWN

DETAIL IS DRAWN

- DRAWING ON WHICH PROFILE IS SHOWN

- REVISION TRIANGLE & NUMBER ON FACE OF DRAWING

PROFILE NUMBER

DATE: 05/22:96 TIME: 07:24:49 DESIGN FILE: I:\ligo\site\\ce\wac002.dgz

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 NAVD 88 BENCH MARK "McKINLEY" VERTICAL DATUM: (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. VERTEX O ELEVATION = 537.29' PROJECT DATUM **〈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. . DIMENSIONS, ELEVATIONS AND LOCATION OF EXISTING UTILITIES, STRUCTURES, OR GRADING ARE TO BE VERIFIED PRIOR TO START OF CONSTRUCTION BY CONTRACTOR. ANY DISCREPANCY WITH THE DRAWINGS SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE CONSTRUCTION MANAGER. ANY ADDITIONAL WORK PERFORMED BY THE CONTRACTOR DUE TO HIS FAILURE TO VERIFY AND SO ADVISE, SHALL BE COMPLETELY AT HIS OWN COST AND AT NO COST TO THE INSTITUTE. 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 A NEW 6" THICK CONCRETE SLAB, PER CONTRACTOR DESIGN.

COMPLETE CONTRUCTION PERIOD, UNTIL PAVED OR BITUMINOUS SURFACE TREATED.

PROTECTION MATERIAL.

12. ALL NEW SIDE SLOPES 3 (HORIZONTAL) : I (VERTICAL) OR STEEPER SHALL HAVE A MINIMUM 3 INCHES OF SLOPE

13. ALL UNPAVED FLAT SURFACES, ROADS OR FUTURE PAVED AREAS SHALL CONTINUALLY HAVE DUST CONTROL DURING THE

14. THE LIGO VERTEX POINT IS DEFINED AS THE INTERSECTION OF THE BEAM TUBE CENTERLINES OR THE (0,0,0) POINT EQUIVALENT TO (NORTH, EAST, ELEVATION) PROJECT COORDINATES DEFINED IN NOTE 2 ABOVE.

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
	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	CEMENT CONCRETE CURBS AND GUTTERS	3/13/92
\ - F-2b	EXTRUDED CURB	2/21/91
	ROADSIDE SIGN STRUCTURES ON TIMBER POSTS	10/11/93
-6-9	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)	3715791
-H-130	TYPE 2 BOLLARD (GUARD POST)	3/15/91
11	REST AREA BUILDING DETAILS SEPTIC TANK	11/26/79
-I-10	REST AREA BUILDING DETAILS DRAIN FIELD	11/26/79
J 10	ELECTRICAL CONDUIT PLACEMENT	3/ 7/88
L-2	CHAIN LINK FENCE, SHEET I 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

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY

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

GENERAL NOTES, LEGEND & ABBREVIATIONS

NONE | PP150969 | 8094

100 WEST WALNUT STREET

DRAWN

HECKED

ENGINEER

WRB

B 4/19/96 WRB ML JB MDW FINAL DESIGN REVIEW & BID MASSACHUSETTS INSTITUTE OF TECHNOLOGY PRELIMINARY DESIGN REVIEW PASADENA, CALIFORNIA DESCRIPTION

PARSONS

LIGO-D960197-C-O

LIGOWAF3.BDR