PORTIONS OF SEC. 13, 14, 22, 23, 24 AND 27, TWP. 27 N., RGE. 22 E., W.M.

LEGAL DESCRIPTION:

THE EAST HALF OF THE NORTHWEST QUARTER AND THE SOUTHWEST QUARTER OF THE NORTHWEST QUARTER AND THE WEST HALF OF THE WEST HALF OF THE NORTHEAST QUARTER OF SECTION 24, TOWNSHIP 27 NORTH, RANGE 22 EAST, W.M., CHELAN COUNTY, WASHINGTON.

THE NORTHEAST QUARTER OF SECTION 24, TOWNSHIP 27 NORTH, RANGE 22, EAST OF THE WILLAMETTE MERIDIAN, CHELAN COUNTY, WASHINGTON,
EXCEPT THE WEST HALF OF THE WEST HALF.
EXCEPT THAT PORTION INCLUDED WITHIN THE PLAT OF HILLSIDE, ACCORDING TO THE RECORDED PLAT THEREOF IN SAID SECTION,
ALSO EXCEPT THE FOLLOWING DESCRIBED PROPERTY: BEGINNING AT A POINT 247.5 FEET, MORE OR LESS, WESTERLY FROM THE NORTHEAST CORNER OF SAID SECTION 24, SAID POINT BEING ON THE NORTH LINE OF SAID SECTION 24; THENCE CONTINUING WESTERLY ON SAID NORTH LINE FOR 370 FEET, MORE OR LESS; THENCE SOUTHERLY 600 FEET, MORE OR LESS PARALLEL WITH THE EAST LINE OF SAID SECTION 24; THENCE EASTERLY, PARALLEL WITH THE NORTH LINE OF SAID SECTION 24 FOR 370 FEET, MORE OR LESS, TO THE WEST LINE OF CHELAN AVENUE; THENCE NORTHERLY ALONG THE WEST LINE OF SAID CHELAN AVENUE FOR 600 FEET, MORE OR LESS TO THE POINT OF BEGINNING.

THE WEST HALF OF THE SOUTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 14, TOWNSHIP 27 NORTH, RANGE 22 EAST, W.M. AND THE WEST HALF OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 23, TOWNSHIP 27 NORTH, RANGE 22 EAST, W.M., ALL IN CHELAN COUNTY, WASHINGTON.

THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 24, TOWNSHIP 27 NORTH, RANGE 22 EAST, W.M., CHELAN COUNTY, WASHINGTON.

THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER AND THE EAST HALF OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 23, TOWNSHIP 27 NORTH, RANGE 22 EAST, W.M., CHELAN COUNTY, WASHINGTON.
EXCEPT THE NORTH 300.00 FEET OF THE EAST 1907.96 FEET OF THE NORTHEAST QUARTER OF SECTION 23.

THAT PORTION OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 13, TOWNSHIP 27 NORTH, RANGE 22 EAST W.M., CHELAN COUNTY, WASHINGTON, LYING SOUTHEASTERLY OF A LINE COMMENCING AT THE SOUTHWEST CORNER OF SAID SECTION 13 AND RUNNING NORTHEASTERLY TO THE SOUTHEAST CORNER OF GOVERNMENT LOT 4 OF SAID SECTION 13 AND THE END OF SAID LINE.

LOTS 14 THROUGH 22, BLOCK 21; AND LOT 32, BLOCK 6, EXCEPT THAT PORTION OF LOT 32, CONVEYED TO THE STATE OF WASHINGTON FOR P.S.H. NO. 10 BY DEED RECORDED NOVEMBER 15, 1960 UNDER AUDITOR'S FILE NO. 572323; ALL IN THE PLAT OF THE TOWN OF LAKE PARK, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 1 OF PLATS, PAGE 27, RECORDS OF CHELAN COUNTY, WASHINGTON.

THE EAST HALF OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER, AND THE EAST HALF OF THE SOUTHEAST QUARTER OF THE SOUTHWEST QUARTER AND THE WEST HALF OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 14, TOWNSHIP 27 NORTH, RANGE 22 EAST W.M., CHELAN COUNTY, WASHINGTON.

THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 23, TOWNSHIP 27 NORTH, RANGE 22 EAST, W.M., CHELAN COUNTY, WASHINGTON AND A STRIP OF LAND 30 FEET WIDE FOR ROAD PURPOSES ACROSS THE EAST HALF OF THE EAST HALF OF THE NORTHEAST QUARTER OF SECTION 22, TOWNSHIP 27 NORTH, RANGE 22 EAST, W.M., CHELAN COUNTY, WASHINGTON; AND CONNECTING WITH THE COUNTY ROAD AT A POINT ABOUT 24 RODS FROM THE SOUTHWEST CORNER OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 23, SAID TOWNSHIP AND RANGE.

THAT PORTION OF THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 22, TOWNSHIP 27 NORTH, RANGE 22 EAST, W.M., IN CHELAN COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF SECTION 22; THENCE RUNNING SOUTH ALONG THE SECTION LINE BETWEEN SECTIONS 22 AND 23, 40 RODS; THENCE IN A SOUTHWESTERLY DIRECTION 18 RODS; THENCE MORE WESTERLY 42 RODS AND 6 FEET TO A POINT ON A LINE OF A TRACT HERETOFORE SOLD TO CHARLES JOHNSON BY DEED RECORDED IN BOOK 52, PAGE 162; THENCE FOLLOWING SAID LINE IN A NORTHERLY DIRECTION TO THE NORTHEAST COMER OF SAID JOHNSON TRACT; THENCE EAST ON THE NORTH LINE OF THE NORTHEAST ONE QUARTER, 46 RODS 15 FEET TO PLACE OF BEGINNING.

LEGAL DESCRIPTION FOR WATER LINE:

A STRIP OF LAND 40 FEET IN WIDTH FOR WATER LINES TOGETHER WITH AN ADDITIONAL 5 FOOT TEMPORARY CONSTRUCTION EASEMENT ON EACH OUTER SIDE OF THE FOLLOWING DESCRIBED TRACT OF LAND.

THAT PORTION OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 14, AND THE EAST HALF OF THE SOUTHEAST QUARTER OF SECTION 15, TOWNSHIP 27 NORTH, RANGE 22 EAST, W.M., MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHWEST CORNER OF SECTION 14;
THENCE NORTH 89°48'23" EAST ALONG THE SOUTH LINE OF SAID SECTION A DISTANCE OF 80.02 FEET TO THE POINT OF BEGINNING;
THENCE NORTH 1°36'48" WEST A DISTANCE OF 196.03 FEET;
THENCE NORTH 46°36'48" WEST A DISTANCE OF 156.42 FEET;
THENCE NORTH 35°21'48" WEST A DISTANCE OF 242.98 FEET;
THENCE NORTH 24°06'48" WEST A DISTANCE OF 161.49 FEET;
THENCE NORTH 1°36'48" WEST A DISTANCE OF 420.00 FEET;
THENCE NORTH 24°06'48" WEST A DISTANCE OF 394.50 FEET;
THENCE NORTH 12°51'48" WEST A DISTANCE OF 102.49 FEET;
THENCE NORTH 9°38'12" EAST A DISTANCE OF 60.11 FEET TO THE SOUTH MARGIN OF HIGH STREET;
THENCE SOUTH 81°12'23" EAST ALONG SAID MARGIN A DISTANCE OF 40.00 FEET;
THENCE SOUTH 9°38'12" WEST A DISTANCE OF 52.74 FEET;
THENCE SOUTH 12°51'48" EAST A DISTANCE OF 90.59 FEET;
THENCE SOUTH 24°06'48" EAST A DISTANCE OF 398.51 FEET;
THENCE SOUTH 1°36'48" EAST A DISTANCE OF 420.00 FEET;
THENCE SOUTH 24°06'48" EAST A DISTANCE OF 149.59 FEET;
THENCE SOUTH 35°21'48" EAST A DISTANCE OF 235.11 FEET;
THENCE SOUTH 46°36'48" EAST A DISTANCE OF 169.05 FEET;
THENCE SOUTH 1°36'48" EAST A DISTANCE OF 213.59 FEET TO THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SECTION 14;
THENCE SOUTH 89°48'23" WEST ALONG SAID LINE A DISTANCE OF 40.01 FEET TO THE POINT OF BEGINNING;

CONTAINING 1.59 ACRES, MORE OR LESS

BASIS OF BEARING:

STATE PLANE COORDINATES, WASHINGTON NORTH ZONE

DATUM:

HORIZONTAL DATUM: STATE PLANE COORDINATES, NORTH ZONE ADJUSTED TO GROUND COORDINATES DETERMINED BY TYING 3 NGS CONTROL STATIONS (SX1611, SX0085 AND SW1044) WITH GPS TO 9 PRE MARKED PANELS WITHIN AND NEAR THE SUBJECT SITE USED IN THE AERIAL MAPPING.

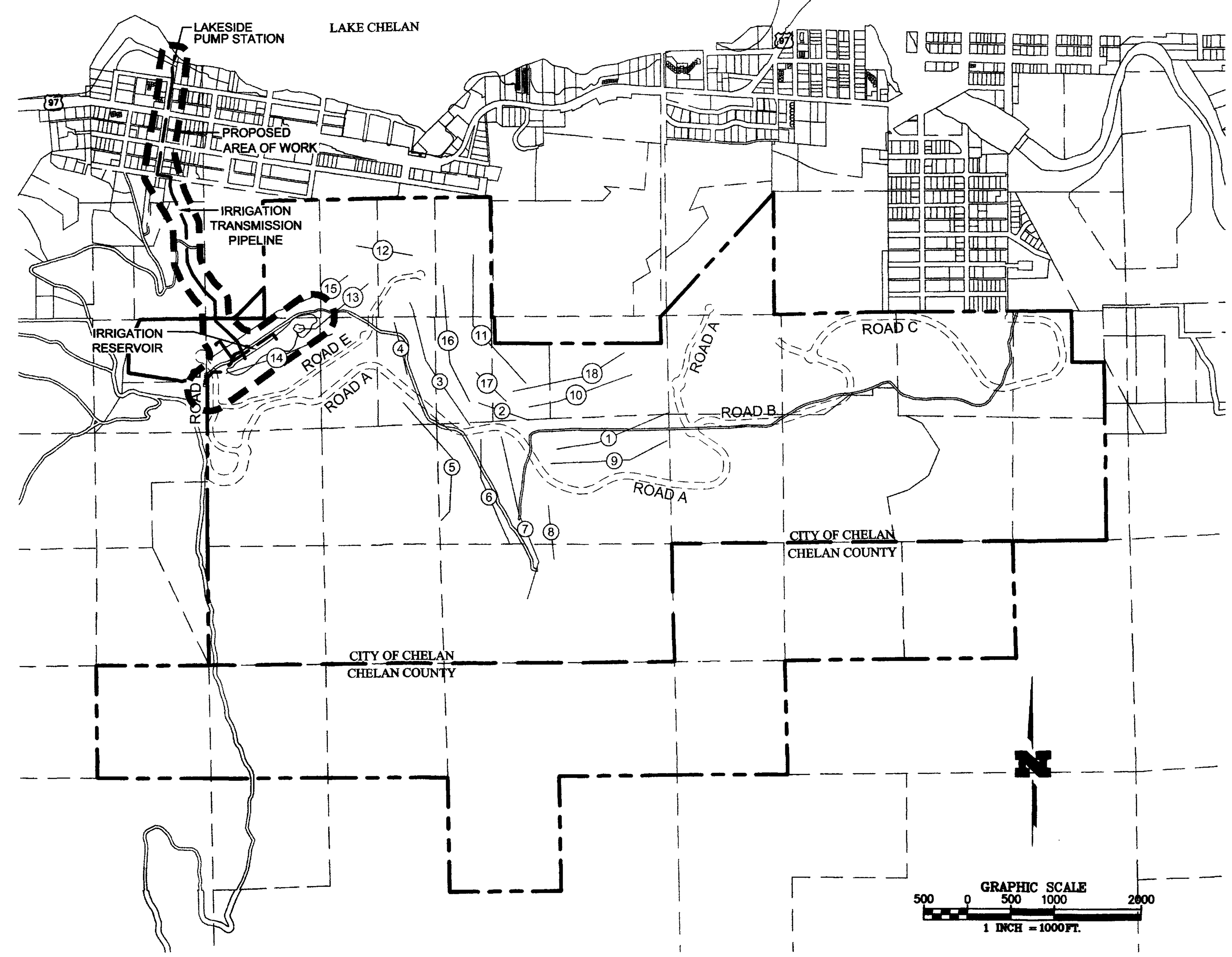
VERTICAL DATUM: LAKE CHELAN (NGVD 29 PLUS 1.7') DAN BAKER – CITY CHELAN

BENCHMARK:

AERIAL PANEL CHEL 2, MAG NAIL IN CHURCH PARKING LOT NORTHWEST OF INTERSECTION OF SR 97 AND WEBSTER AVE. (SR97 ALT.) ELEVATION: 1110.109'

DAYBREAK GOLF COURSE

IRRIGATION SUPPLY SYSTEM



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E-3	SIGNAL ONE-LINE DIAGRAM, SIGNAL CONDUIT & CABLE SCHEDULE
E-4	POWER ONE-LINE DIAGRAM POWER CONDUIT & CABLE SCHEDULE
E-5	CONTROL WIRING DIAGRAMS & LABEL SCHEDULE
E-6	PUMP ALARM & AUTO DIAL WIRING DIAGRAM

PROJECT INFORMATION:

APPLICANT:	CHELAN BUTTE HOLDINGS, L.L.C. 314 EAST WOODIN AVENUE CHELAN, WA 98816-8614 CONTACT: DAVID ABERCROMBIE (509) 682-9296
GOLFCOURSE ARCHITECT:	DYE DESIGNS 5500 EAST YALE, THIRD FLOOR DENVER, CO 80222 CONTACT: PERRY DYE, ASGCA 303--759-5353 (XT 238) TAYLOR ZIMBLEMAN 303-759-5353 (217)
PROJECT ARCHITECT:	ZMISTOWSKI DESIGN GROUP, LLC 1877 BROADWAY – SUITE #100 BOULDER, CO 80302 CONTACT: BILL ZMISTOWSKI, JR. AIA, CID 303-449-4831
SURVEYOR/ENGINEER:	AMERICAN ENGINEERING CORPORATION 4032 148TH AVE NE REDMOND, WA 98052 CONTACT: GARY CHRISTENSEN, PLS-PROJECT SURVEYOR CHERYL GIRARD, P.E.-PROJECT ENGINEER 425-881-7430
GEOTECHNICAL ENGINEER:	GEOGROUP NW 13240 NE 20th STREET, SUITE 12 BELLEVUE, WA 98005 CONTACT: WADE LASSEY, CEG 425-649-8757
BIOLOGIST:	B-TWELVE ASSOCIATES, INC 1103 WEST MEEKER STREET KENT, WA 98032-5751 CONTACT: ED SEWALL, III, PWS 253-859-0515
TRANSPORTATION ENGINEER:	HAMMOND, COLLIER, WADE & LIVINGSTONE 104 EAST 9TH STREET WENATCHEE, WA 98801 CONTACT: DAVE ALLEN, P.E. 509-662-1762
SITE STATISTICS:	TOTAL SITE AREA: 1,282 ACRES 882 ACRES WITHIN THE CITY OF CHELAN *400 ACRES WITHIN CHELAN COUNTY (NO DEVELOPMENT PROPOSED)

LIST OF ASSESSORS PARCEL NUMBERS

272224140050	272224230000	272224110050	272224210050
272224120000	272224240050	272224130050	27001466216
272214662657	272214330050	272214340050	272214430100
272223220000	272222110050	272222440000*	272223210050
272223100050	272223400000*	272223340000*	272223120100
272223240000	272223230000	272223310000	272223320050
272223330000*	272224300050*	272224330000*	272224420000
272226120000*	272224220000*	272223110000	272223120050
272213330000	272223210100	272214340100	

*THESE PARCELS LOCATED WITHIN CHELAN COUNTY – NO DEVELOPMENT PROPOSED AS PART OF THIS APPLICATION.

CITY OF CHELAN ZONING: TA – TOURIST ACCOMODATIONS DISTRICT = 782 ACRES
RL – RESIDENTIAL = 100 ACRES

IRRIGATION SUPPLY SYSTEM PROJECT DESCRIPTION:

THE APPLICANT, CHELAN BUTTE HOLDINGS, LLC, IS REQUESTING PERMISSION FROM THE CITY OF CHELAN TO RECONSTRUCT THE LAKESIDE PUMP STATION TO UPGRADE THE PUMPING SYSTEM AND APPURTENANCES TO SUPPLY IRRIGATION WATER TO THE DAYBREAK GOLF COURSE VIA A NEW IRRIGATION TRANSMISSION PIPELINE. IRRIGATION WATER IS TO BE STORED IN A NEW IRRIGATION RESERVOIR FOR CONSTRUCTION, AND LATER MAINTENANCE OF THE PROPOSED GOLF COURSE.

THE APPLICANT PROPOSES TO:
SALVAGE EQUIPMENT (AS DIRECTED) AND DEMOLISH THE EXISTING LAKESIDE PUMP STATION.
INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL BMP'S.
CONSTRUCT 3,900 LINEAL FEET PIPELINE BETWEEN THE PUMP STATION SITE TO A NEW IRRIGATION RESERVOIR.
CONSTRUCT A NEW LAKESIDE PARK IRRIGATION PUMP FACILITY AND REPLACE DISTURBED IRRIGATION SYSTEM FEATURES NECESSARY FOR PARK IRRIGATION.
LANDSCAPE DISTURBED AREAS WITHIN THE PARK.
CONSTRUCT PIPELINE VAULTS TO HOUSE VALVES AND FITTING APPURTENANCES FOR FLOW CONTROL.
CONSTRUCT A NEW 4.3 ACRE LINED IRRIGATION RESERVOIR WITH 40 ACRE FEET OF ACTIVE STORAGE.

PERMIT APPLICATIONS:

CITY OF CHELAN SHORELINE SUBSTANTIAL DEVELOPMENT/ FILL AND GRADE PERMIT
WSDOE DAM SAFETY/ RESERVOIR PERMIT

PRELIMINARY

No.	Revisions	Date	By

Date 3-9-05
Scale AS SHOWN
Drawn NEB
Designed JRD
Checked EG

American Engineering Corporation
Engineers • Planners • Surveyors
4032 148th Ave. N.E.
Redmond, WA 98052
PHONE (425) 881-7430 Fax (425) 881-7731

File path & Name
P:\2004\0417\Engineering\Irrigation\dwg\E0417CV1.dwg 3/9/2005 9:55:44 AM PST

JAMES R. DEXTER
STATE OF WASHINGTON
31052
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 7-2-

DAYBREAK
IRRIGATION SUPPLY SYSTEM
COVER SHEET

JOB NO. 0417

SHEET G-1

R4- 35039

PORTIONS OF SEC. 13, 14, 22, 23, 24 AND 27, TWP. 27 N., RGE. 22 E., W.M.

IRRIGATION TRANSMISSION PIPELINE - PIPE LAYING SCHEDULE

GENERAL NOTES:

1. EXISTING UTILITY LOCATIONS ARE BASED ON AVAILABLE INFORMATION THAT MAY NOT BE CURRENT, ACCURATE OR COMPLETE. CONTRACTOR SHALL USE UTILITY LOCATE SERVICE TO IDENTIFY AND LOCATE BURIED UTILITIES PRIOR TO EXCAVATION.
2. CONTRACTOR SHALL CALL CONSTRUCTION CONFLICTS TO THE ATTENTION OF THE ENGINEER AS SOON AS THEY ARE IDENTIFIED.
3. CONTRACTOR MAY BE REQUIRED TO PLACE STRUCTURAL SUPPORT BENEATH CROSSING UTILITY LINES AND PROVIDE STEEL CASING TO PROTECT PROPOSED 16" IRRIGATION PIPE DEPENDING UPON BURIAL DEPTH AND JOINT LOCATIONS OF PIPES EXPOSED DURING CONSTRUCTION.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING TRAFFIC CONTROL AND SAFETY PLANS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE DISCONNECTION OF ELECTRICAL POWER DISTRIBUTION REQUIRED TO BE REMOVED WITHIN THE PROJECT CONSTRUCTION LIMITS THAT IS MAINTAINED BY THE CHELAN COUNTY PUD WITH THAT AGENCY.
6. CONTRACTOR SHALL PREPARE AND SUBMIT WATER QUALITY PROTECTION PLAN FOR ANY CONSTRUCTION RUNOFF TO WATERS OF THE STATE.
7. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AS IDENTIFIED IN PROJECT MANUAL SPECIAL PROVISIONS.

PUMP STATION NOTES:

1. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF PUMP AND MOTOR CONTROL UNITS, DISCHARGE PIPING, FLOW METER EQUIPMENT AND MOTOR CONTROL CENTER AS SHOWN ON THE DRAWINGS WITH PUMPTECH EASTERN WASHINGTON OFFICE (509-397-6000)
2. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF SURGE ANTICIPATION AND FLOW CONTROL PRESSURE REDUCING VALVE WITH GC SYSTEMS (800-525-9425).
3. PUMP STATION SHALL UNDERGO HYDROSTATIC PRESSURE PER STANDARD SPECIFICATIONS TO BE WITNESSED BY ENGINEER. HYDROSTATIC TEST PRESSURE SHALL BE 350 PSI. PUMP STATION SHALL NOT BE ACCEPTED FOR USE UNTIL THE HYDROSTATIC TEST REQUIREMENT IS MET.
4. FLANGE THICKNESS SHOWN ON THE DRAWINGS ARE NOMINAL DIMENSIONS. ACTUAL FLANGE THICKNESS WILL VARY.
5. CONTRACTOR SHALL INSPECT THE EXISTING INTAKE IN LAKE CHELAN FOR THE PUMP STATION 14-IN STEEL SUPPLY PIPELINE AND FURNISH AN INSPECTION REPORT TO THE ENGINEER.

IRRIGATION TRANSMISSION PIPELINE NOTES:

1. UTILITY PIPE LOCTIONS ON IRRIGATION PLAN/PROFILE SHEETS ARE BASED ON A CAD DRAWING OBTAINED FROM CITY OF CHELAN WITH THE FOLLOWING QUALIFICATIONS " CAD MAP IS A COMPILATION OF ASSESSOR'S MAPS, AERIAL PHOTOS, AND HAND ENTRIES. LOCATIONS ARE ONLY APPROXIMATE." CONTRACTOR SHOULD ANTICIPATE UNFORESEEN UTILITY CONFLICTS MAY EXIST AND PROVIDE SUFFICIENT NUMBER OF ADDITIONAL FITTINGS, FIELD FABRICATED RESTRAINED JOINTS AND STEEL CASING TO ADJUST THE PIPELINE ALIGNMENT AND PROFILE DURING CONSTRUCTION.
2. PIPE PROFILE LINE ON SHEETS C-6,7, AND 8 RERESENTS TOP OF PIPE
3. PROFILE BASED ON NOMINAL 20' LAYING LENGTH AND FITTINGS FOR AMERICAN DUCTILE IRON PIPE. CONTRACTOR SHALL SUBMIT PIPE LAYING SCHEDULE FOR ALTERNATE LAYING LENGTH
4. CONTRACTOR SHALL PROVIDE SEVEN DAYS OF CURING TIME FOR CONCRETE THRUST BLOCKS BEFORE PERFORMING HYDROSTATIC TESTING.
5. TRANSMISSION PIPE LINE SEGMENTS SHALL UNDERGO HYDROSTATIC PRESSURE PER STANDARD SPECIFICATIONS TO BE WITNESSED BY ENGINEER. HYDROSTATIC TEST PRESSURE SHALL BE AS SHOWN IN THE PIPELINE HYDROSTATIC TEST SCHEDULE BELOW. THE IRRIGATION TRANSMISSION PIPE LINE SHALL NOT BE ACCEPTED FOR USE UNTIL THE HYDROSTATIC TEST REQUIREMENT IS MET.

   PIPELINE HYDROSTATIC TEST SCHEDULE-

PIPE LINE STATIONS:	TEST PRESSURE, PSI:
0+00 TO 13+90	350
13+90 TO 20+20	275
20+20 TO 29+20	250
29+20 TO 36+50	225

   CONTRACTOR SHALL FURNISH TEST APPARATUS SHOWN ON SHEET C-10, ALL PERSONNEL, AND OTHER EQUIPMENT NECESSARY FOR TESTS.
6. ELEVATIONS SHOWN ON PIPELINE PLAN AND PROFILE ARE APPROXIMATE. PIPE LAYING STATION AND TOP OF PIPE ELEVATIONS SHOWN ON THE SCHEDULE (THIS SHEET) SHALL TAKE PRECEDENCE OVER ELEVATIONS ON THE PROFILE SHEETS. ALL INFORMATION SUBJECT TO FIELD VERIFICATION.

IRRIGATION RESERVOIR NOTES:

1. IRRIGATION RESERVOIR CONSTRUCTION SHALL NOT START UNTIL APPROVAL OF WSDOE RESERVOIR PERMIT IS OBTAINED.
2. RESERVOIR PLAN INCLUDES DOMESTIC WATER LINE INTERTIE AND IRRIGATION BOOSTER PUMP STATION SUPPLY PIPELINE AND OUTLET FROM RESERVOIR. THESE FEATURES ARE NOT APPROVED FOR CONSTRUCTION AS OF 2/14/05. HOWEVER, CONTRACTOR SHOULD ANTICIPATE THEIR FUTURE CONSTRUCTION.

Irrigation Transmission Pipe Line Laying Schedule

Plan Station @ End of Pipe Run plus Fittings/Vaults	Pipe top elevation, feet	Depth of cover to top of pipe, feet	Type of Fitting & No. on Drawing	Joint Type, Deflection & Blocking	Joint Deflection @ Beginning of Pipe Run, degrees
(1)	(2)	(3)	(4)	(5)	(6)
0+02.5	1100.00	1.7	0	Steel Casing	0.00
0+21.1	1100.00	3.7	H-1/ 11-1/4o	FL X RJ/thrust block	0.00
0+40.8	1100.00	7.7	0	RJ X RJ	0.00
0+60.5	1101.03	9.0	0	RJ X RJ	3.00
0+80.1	1103.10	10.7	0	RJ X RJ	3.00
0+98.8	1106.12	11.1	H-2 /11-1/4o	17.6 ft Special RJ X RJ/thrust block	3.00
1+18.1	1110.30	11.6	0	RJ X RJ /Vert & Horiz Deflect	3.00
1+37.4	1114.58	9.7	0	RJ X RJ /Vert & Horiz Deflect	0.30
1+56.9	1117.83	7.2	0	RJ X RJ /Vert & Horiz Deflect	-3.00
1+76.5	1120.05	5.7	0	RJ X RJ /Vert & Horiz Deflect	-3.00
1+96.2	1121.23	5.2	0	RJ X RJ /Vert & Horiz Deflect	-3.00
2+15.9	1122.15	5.1	0	RJ X RJ /Vert Deflect	-0.75
2+35.6	1123.33	5.1	0	RJ X RJ	0.75
2+55.2	1125.03	4.6	0	RJ X RJ	1.50
2+74.9	1126.73	4.4	0	RJ X RJ	0.00
2+94.5	1128.43	4.2	0	RJ X RJ	0.00
3+14.2	1129.61	4.5	0	RJ X RJ /Vert Deflect	-1.50
3+34.0	1130.27	5.1	0	RJ X RJ /Vert Deflect	-1.50
3+53.7	1130.42	6.5	0	RJ X RJ /Vert Deflect	-1.50
3+73.4	1130.57	8.6	0	RJ X RJ	0.00
3+93.1	1131.24	8.2	0	RJ X RJ /Vert Deflect	1.53
4+02.5	1131.92	8.6	0	9.4 ft Special RJ X RJ	1.05
4+23.0	1137.00	5.3	V-3 u/ 11-1/4o	/thrust block/RJ X RJ	0.00
4+44.0	1138.23	5.9	V-4 d/ 11-1/4o	/thrust block/RJ X RJ	0.00
4+63.7	1138.42	7.7	0	RJ X RJ	-3.00
4+83.5	1138.61	9.0	0	RJ X RJ	0.00
5+03.2	1138.81	9.6	0	RJ X RJ	0.00
5+22.9	1139.00	9.9	0	RJ X RJ	0.00
5+42.7	1139.19	10.2	0	RJ X RJ	0.00
5+62.4	1139.39	10.6	0	RJ X RJ	0.00
5+82.1	1139.58	11.1	0	RJ X RJ	0.00
6+01.8	1139.77	12.8	0	RJ X RJ	0.00
6+22.5	1143.81	10.5	V-5 u/ 11-1/4o	/thrust block/RJ X RJ	0.00
6+41.9	1147.34	8.3	0	RJ X RJ /Vert Deflect	-1.50
6+61.5	1150.09	7.3	0	RJ X RJ /Vert Deflect	-2.25
6+81.1	1152.32	6.4	0	RJ X RJ /Vert Deflect	-1.50
7+00.8	1154.04	6.0	0	RJ X RJ /Vert Deflect	-1.50
7+20.4	1155.24	6.8	0	RJ X RJ /Vert Deflect	-1.50
7+40.1	1156.44	7.8	0	RJ X RJ	0.00
7+59.8	1157.63	8.5	0	RJ X RJ	0.00
7+79.5	1158.83	7.9	0	RJ X RJ	0.00
7+99.2	1160.03	9.3	0	RJ X RJ	0.00
8+18.9	1161.23	8.8	0	RJ X RJ	0.00
8+38.6	1162.43	9.2	0	RJ X RJ	0.00
8+58.3	1163.63	9.8	0	RJ X RJ	0.00
8+78.0	1164.83	10.1	0	RJ X RJ	0.00
8+97.7	1166.03	10.5	0	RJ X RJ	0.00
9+17.4	1167.48	12.1	0	RJ X RJ	0.75
9+37.0	1169.46	11.4	0	RJ X RJ	1.50
9+56.6	1171.43	10.3	0	RJ X RJ	0.00
9+76.3	1173.41	10.1	0	RJ X RJ	0.00
9+95.9	1175.38	8.6	0	RJ X RJ	0.00
10+15.5	1177.36	8.2	0	RJ X RJ	0.00
10+35.2	1179.33	7.8	0	RJ X RJ	0.00
10+54.8	1181.30	7.6	0	RJ X RJ	0.00
10+74.4	1183.28	7.3	0	RJ X RJ	0.00
10+94.1	1185.25	7.1	0	RJ X RJ	0.00
11+13.7	1187.23	7.3	0	RJ X RJ	0.00
11+33.3	1189.20	7.8	0	RJ X RJ	0.00
11+52.9	1191.43	8.6	0	RJ X RJ /Vert Deflect	0.75
11+72.5	1193.93	9.2	0	RJ X RJ /Vert Deflect	0.75
11+92.0	1196.93	9.2	0	RJ X RJ /Vert Deflect	1.50
12+11.5	1199.94	8.4	0	RJ X RJ	0.00
12+21.1	1201.04	8.7	H-6/ 90o	7 ft Special RJ X RJ/thrust block	0.00
12+40.6	1204.07	7.5	0	RJ X RJ /Vert Deflect	1.50
12+60.1	1207.11	5.6	0	RJ X RJ	0.00
12+79.7	1209.62	5.8	0	RJ X RJ /Vert Deflect	-1.50
12+99.3	1211.62	5.7	0	RJ X RJ /Vert Deflect	-1.50
13+19.0	1212.84	5.7	0	RJ X RJ /Vert Deflect	-2.25
13+38.8	1213.03	7.0	0	RJ X RJ /Vert Deflect	-3.00
13+70.9	1213.22	8.8	A VAULT	full pipe run/RJ X FL/FL X RJ	0.00
13+83.4	1213.32	9.6	H-7/ 90o	10 ft Special RJ X RJ/thrust block	0.00
14+03.2	1221.04	10.0	V-8 u/ 22-1/2o	/thrust block/ RJ X RJ	0.00
14+21.6	1232.61	5.1	V-9 u/ 11-1/4o	/thrust block/ RJ X RJ	0.00
14+41.7	1239.30	3.9	V-10 d/ 11-1/4o	/thrust block/ RJ X RJ/Vert Deflect	-3.00
14+60.7	1244.95	3.5	0	RJ X RJ /Vert Deflect	-3.00
14+70.7	1247.53	4.2	H-11/ 22-1/2o	9 ft Special RJ X RJ/thrust block	0.00
14+89.8	1252.79	4.5	0	RJ X RJ	0.00
15+08.7	1258.56	5.4	0	RJ X RJ	1.50
15+27.4	1265.37	4.6	0	RJ X RJ	3.00
15+46.0	1272.18	5.2	0	RJ X RJ /VD/thrust block	0.00
15+64.7	1278.99	4.3	0	RJ X RJ /Vert Deflect	0.00
15+71.7	1281.06	4.8	H-12/ 11-1/4o	6 ft Special RJ X RJ/thrust block	0.00
15+90.5	1287.26	4.9	0	RJ X RJ /Vert Deflect	0.75
16+09.2	1293.99	7.1	0	RJ X RJ /Vert Deflect	1.50
16+27.7	1301.49	8.0	0	RJ X RJ /Vert Deflect	2.25
16+45.9	1309.50	9.8	0	RJ X RJ /Vert Deflect	1.50
16+64.0	1318.30	9.9	0	RJ X RJ /Vert Deflect	2.25
16+82.0	1327.09	9.7	0	RJ X RJ	0.00
17+00.0	1335.88	8.1	0	RJ X RJ	0.00
17+18.0	1344.67	6.3	0	RJ X RJ	0.00
17+36.0	1353.46	5.3	0	RJ X RJ	0.00
17+54.2	1361.74	3.7	0	RJ X RJ /Vert Deflect	-1.50
17+72.6	1369.50	3.9	0	RJ X RJ /Vert Deflect	-1.50
17+91.0	1377.26	4.0	0	RJ X RJ	0.00
18+09.6	1383.98	4.6	0	RJ X RJ /Vert Deflect	-3.00
18+28.6	1389.67	4.2	0	RJ X RJ /Vert Deflect	-3.00
18+47.8	1394.33	4.2	0	RJ X RJ /Vert Deflect	-3.00
18+67.2	1397.95	3.8	0	RJ X RJ /Vert Deflect	-3.00
18+86.6	1401.57	4.7	0	RJ X RJ	0.00
19+05.9	1405.71	6.5	0	RJ X RJ /Vert Deflect	1.50
19+25.1	1410.37	8.0	0	RJ X RJ /Vert Deflect	1.50
19+44.1	1416.06	9.4	0	RJ X RJ /Vert Deflect	3.00
19+64.4	1421.75	9.5	H-13/22-1/2o	RJ X RJ /thrust block	0.00
19+83.5	1426.92	7.1	0	RJ X FL/FL X RJ	-1.50
19+99.2	1430.08	8.2	0	16 ft special RJ X RJ /Vert Deflect	-3.00
20+12.9	1430.08	8.9	V-14 d/ 11-1/4o/ A VAULT	thrust block/RJ X FL/Vert Deflect/FL X RJ	0.77
20+32.7	1430.67	9.4	0	RJ X RJ	1.50
20+52.4	1431.25	8.8	0	RJ X RJ /Vert Deflect	0.00
20+72.1	1431.83	8.7	0	RJ X RJ /Vert Deflect	0.00
20+91.8	1432.42	8.0	0	RJ X RJ /Vert Deflect	0.00
21+11.5	1433.00	7.4	0	RJ X RJ /Vert Deflect	0.00
21+31.3	1433.59	7.1	0	RJ X RJ	0.00
21+51.0	1433.91	7.0	0	RJ X RJ /Vert Deflect	-0.75
21+70.7	1434.24	4.9	0	RJ X RJ	0.00
21+90.4	1434.56	3.4	0	RJ X RJ	0.00
22+10.2	1435.40	3.9	0	RJ X RJ /Vert Deflect	1.50
22+30.7	1440.09	4.9	V-15 u/ 11-1/4o	/thrust block/ RJ X RJ	0.00
22+49.9	1444.78	3.6	0	RJ X RJ	0.00
22+69.1	1449.48	4.5	0	RJ X RJ	0.00
22+88.2	1454.68	4.6	0	RJ X RJ /Vert Deflect	1.50
23+07.3	1459.89	5.0	0	RJ X RJ	0.00
23+26.3	1465.10	5.9	0	RJ X RJ	0.00
23+45.4	1470.31	6.2	0	RJ X RJ	0.00
23+64.7	1474.48	3.6	0	RJ X RJ /Vert Deflect	-3.00
23+85.5	1477.62	3.5	H-16/ 22-1/2o	RJ X RJ /thrust block	-3.00
24+05.0	1480.76	3.4	0	RJ X RJ	0.00
24+24.6	1483.64	3.6	0	RJ X RJ /Vert Deflect	-0.75
24+44.1	1486.01	3.9	0	RJ X RJ /Vert Deflect	-1.50
24+63.8	1487.86	3.7	0	RJ X RJ /Vert Deflect	-1.50
24+83.4	1489.70	3.6	0	RJ X RJ	0.00
25+03.1	1491.55	4.0	0	RJ X RJ	0.00
25+22.7	1493.40	3.9	0	RJ X RJ	0.00
25+42.4	1495.25	4.8	0	RJ X RJ	0.00
25+53.7	1496.18	5.4	H-17/ 11-1/4o	10 ft special RJ X RJ /thrust block	0.00
25+73.2	1498.96	6.5	0	RJ X RJ /Vert Deflect	3.00
25+92.6	1502.77	6.1	0	RJ X RJ /Vert Deflect	3.00
26+11.9	1506.58	5.7	0	RJ X RJ	0.00
26+31.1	1511.42	7.1	0	RJ X RJ /Vert Deflect	3.00
26+50.0	1517.30	5.7	0	RJ X RJ /Vert Deflect	3.00
26+68.8	1523.69	4.9	0	RJ X RJ /Vert Deflect	1.50
26+87.7	1529.57	4.1	0	RJ X RJ /Vert Deflect	-1.50
27+06.7	1534.93	3.5	0	RJ X RJ /Vert Deflect	-1.50
27+25.8	1540.29	4.0	0	RJ X RJ	0.00
27+45.0	1544.61	5.4	0	RJ X RJ	-3.00
27+64.5	1547.90	3.6	0	RJ X RJ /Vert Deflect	-3.00
27+84.4	1549.99	4.2	H-18/ 11-1/4o	18.7 ft special RJ X RJ /thrust block	-3.00
28+04.1	1551.15	5.7	0	RJ X RJ /Vert Deflect	-3.00
28+23.8	1551.27	4.4	0	RJ X RJ /Vert Deflect	-3.00
28+43.6	1551.40	3.5	0	RJ X RJ/thrust block	0.00
28+63.3	1551.52	5.7	0	RJ X RJ	0.00
28+81.1	1564.82	4.6	V-19 u/ 45o	/thrust block/ RJ X RJ /Vert Deflect	-2.25
28+97.7	1577.61	3.5	0	RJ X RJ /Vert Deflect	-1.50
29+18.7	1577.47	5.1	V-20 d/ 45o	/thrust block/ RJ X RJ /Vert Deflect	3.00
29+44.1	1577.54	6.5	A VAULT	13 ft special RJ X FL/FL X RJ	0.45
29+45.5	1577.54	6.5	H-21/ 45o	RJ X RJ/thrust block	0.00
29+65.2	1578.57	6.5	0	RJ X RJ /Vert Deflect	3.00
29+84.9	1579.61	6.5	0	RJ X RJ	0.00
30+04.6	1580.64	6.7	0	RJ X RJ	0.00
30+24.3	1581.67	6.5	0	RJ X RJ	0.00
30+44.0	1582.71	5.9	0	RJ X RJ	0.00
30+63.7	1583.74	5.9	0	RJ X RJ	0.00
30+84.2	1588.63	8.9	V-22 u/ 11-1/4o	/thrust block/ RJ X RJ	0.00
31+03.7	1597.36	9.3	V-23 u/ 11-1/4o	/thrust block/ RJ X RJ	0.00
31+22.0	1605.06	6.1	0	RJ X RJ /Vert Deflect	-3.00
31+40.7	1611.72	4.0	0	RJ X RJ /Vert Deflect	-3.00
31+59.6	1617.87	6.1	0	RJ X RJ /Vert Deflect	-1.50
31+75.3	1622.54	7.0	H-24/ 45o	15 ft special RJ X RJ /thrust block	0.00
31+94.1	1628.57	5.9	0	RJ X RJ	0.00
32+13.0	1634.60	7.4	0	RJ X RJ	0.00
32+31.9	1640.62	7.9	0	RJ X RJ	0.00
32+50.8	1646.65	7.9	0	RJ X RJ	0.00
32+69.6	1652.68	7.8	0	RJ X RJ	0.00
32+88.5	1658.70	7.6	0	RJ X RJ	0.00
33+07.4	1664.73	8.4	0	RJ X RJ	0.00
33+25.9	1671.79	9.1	0	RJ X RJ /Vert Deflect	3.00
33+44.2	1679.89	9.1	0	RJ X RJ /Vert Deflect	3.00
33+62.4	1687.98	9.2	0	RJ X RJ	0.00
33+80.7	1696.08	9.2	0	RJ X RJ	0.00
33+98.9	1704.17	9.2	0	RJ X RJ	0.00
34+17.5	1711.24	6.8	0	RJ X RJ /Vert Deflect	-3.00
34+36.4	1717.26	4.9	0	RJ X RJ /Vert Deflect	-3.00
34+55.5	1722.26	4.0	0	RJ X RJ /Vert Deflect	-3.00
34+74.9	1726.22	4.8	0	RJ X RJ /Vert Deflect	-3.00
34+94.2	1730.17	5.8	0	RJ X RJ /Vert Deflect	0.00
35+14.9	1734.13	5.7	H-25 / 22-1/2o	RJ X RJ /thrust block	0.00
35+34.2	1738.09	5.3	0	RJ X RJ	0.00
35+53.7	1741.28	5.7	0	RJ X RJ /Vert Deflect	-2.25
35+73.3	1743.68	7.5	0	RJ X RJ /Vert Deflect	-2.25
35+92.9	1745.83	11.9	0	RJ X RJ /Vert Deflect	-0.75
36+13.2	1751.83	13.1	V-26 u/ 11-1/4o	/thrust block/ RJ X RJ	0.00
36+32.2	1757.32	11.5	0	RJ X RJ /Vert Deflect	-1.50
36+37.5	1758.95	11.1	V-27d/ 11-1/4o	thrust block/ 4 ft special RJ X RJ	0.00
36+52.2	1759.32	10.7	B VAULT	RJ X FL/FL X RJ	0.78
36+71.9	1759.82	10.2	0	RJ X RJ	0.00
36+91.7	1760.32	7.7	0	RJ X RJ	0.00
37+11.4	1760.82	7.2	0	RJ X RJ	0.00
37+31.1	1760.99	0.0	0	RJ X RJ	0.00
37+38.1	1761.17	-0.2	0	RJ X RJ	0.00

ABBREVIATIONS:

DI	DUCTILE IRON
STL	STEEL
FL	FLANGE (JOINT)
MJ	MECHANICAL JOINT
ELL	ELBOW (FITTING)
VD	VERTICAL DEFLECTION
HD	HORIZONTAL DEFLECTION
CJ	COMPRESSION JOINT
SJ	SOCKET JOINT
PVC	POLYVINYL CHLORIDE
RJ	RESTRAINED JOINT
GV	GATE VALVE
BV	BUTTERFLY VALVE
PE	PLAIN END
HDPE	HIGH DENSITY POLYETHYLENE

COLUMN NOTES:

(1) STATIONING AT END OF PIPE RUN PLUS ANY FITTING OR VAULT REQUIREMENTS
(2) MINIMUM DEPTH OF COVER SHALL BE 3.3 FEET; WHERE REQUIRED, FINISH GRADE INCREASED TO SATISFY MINIMUM
(3) COVER DEPTH ESTIMATED FROM SURVEY IS ONLY APPROXIMATE
(4) HORIZONTAL BENDS ARE LOCATED AT END OF PIPE RUN AND VERTICAL BENDS/DEFLECTIONS ARE LOCATED AT BEGINNING OF PIPE RUN
(5) PROVIDE THRUST BLOCKING IN ADDITION TO RESTRAINED JOINTS WHERE INDICATED IN SCHEDULE
(6) MAXIMUM DEFLECTION 3 DEGREES

PRELIMINARY

No.	Revisions	Date	By
1	FOWLER CHANGES	04-14-05	JD

Date: 3-9-05
Scale: NO SCALE
Drawn: NB
Designed: JRD
Checked: EG

JAMES R. DEXTER — STATE OF WASHINGTON — 31052 — REGISTERED PROFESSIONAL ENGINEER
EXPIRES 7-2-

American Engineering Corporation
Engineers • Planners • Surveyors
4032 148th Ave. N.E.
Redmond, WA 98052
PHONE (425) 881-7430 Fax (425) 881-7731

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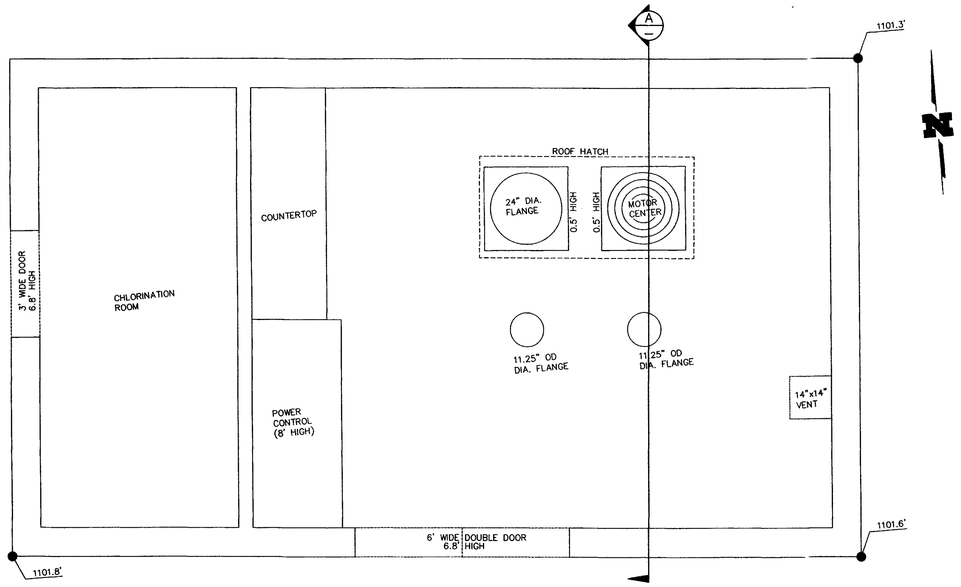
DAYBREAK
IRRIGATION SUPPLY SYSTEM
IRRIGATION SYSTEM NOTES

JOB NO. 0417

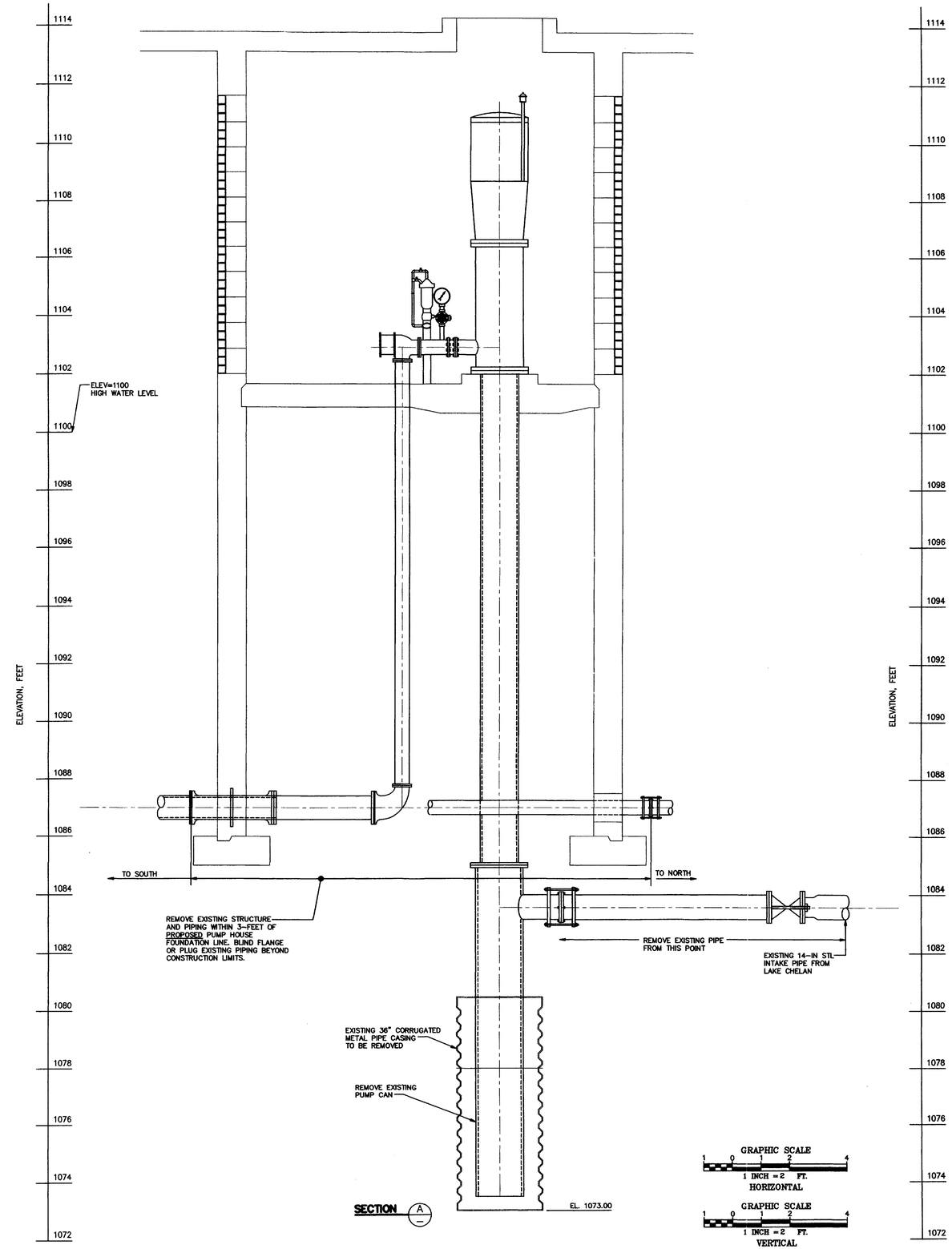
SHEET G-2

R4-35039

PORTIONS OF SEC. 13, 14, 22, 23, 24 AND 27, TWP. 27 N., RGE. 22 E., W.M.



PLAN



PRELIMINARY

BUILDING DEMOLITION NOTES:

1. PLAN DEPICTS ONLY A PORTION OF EXISTING BURIED AND EXPOSED MECHANICAL, ELECTRICAL, AND HVAC EQUIPMENT, PIPING, VALVES, CONDUITS, AND APPURTENANCES ALL TO BE REMOVED UNDER THIS CONTRACT.
2. CONTRACTOR TO BE RESPONSIBLE FOR ISOLATION OF ALL WATER PIPING, AND ELECTRICAL POWER CONNECTIONS, PRIOR TO DEMOLITION.
3. EXISTING REINFORCED CONCRETE FLOOR SLAB TO BE REMOVED TO LIMITS AS SHOWN ON PLAN.
4. CONTRACTOR TO BE RESPONSIBLE FOR SALVAGE AND DISPOSAL OF DEMOLITION EQUIPMENT AND MATERIAL PER CITY ENGINEER INSTRUCTION.

PUMP WELL RECONSTRUCTION NOTES:

1. BELOW GROUND CONDITIONS ARE BASED ON CONSTRUCTION DRAWINGS AND TO BE VERIFIED BY CONTRACTOR. CONTRACTOR SHOULD ANTICIPATE DISCOVERY OF BURIED PIPE AND CONDUITS NOT SHOWN.
2. MINIMUM LAKE LEVEL = 1082 FT(+/-) ON APRIL 30. CONDITIONS VARY YEAR TO YEAR AND TROUGHOUT EACH SEASON. CONTACT CHELAN CO. PUD FOR LAKE LEVEL FORECAST JANET JASPERS (509) 661-4548

GENERAL NOTES:

1. ALL DIMENSIONS ARE APPROXIMATE AND BASED ON AVAILABLE DRAWINGS.
2. SOIL CONDITIONS VARY. SEE SOILS REPORT.

No.	Revisions	Date	By

Date 3-9-05
Scale AS SHOWN
Drawn PM
Designed JRD
Checked EG

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4032 148th Ave. N.E.
Redmond, WA 98052
PHONE (425) 881-7430 Fax (425) 881-7731

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JAMES R. DAELLER STATE OF WASHINGTON 22080 REGISTERED PROFESSIONAL ENGINEER
EXPIRES 7-2-

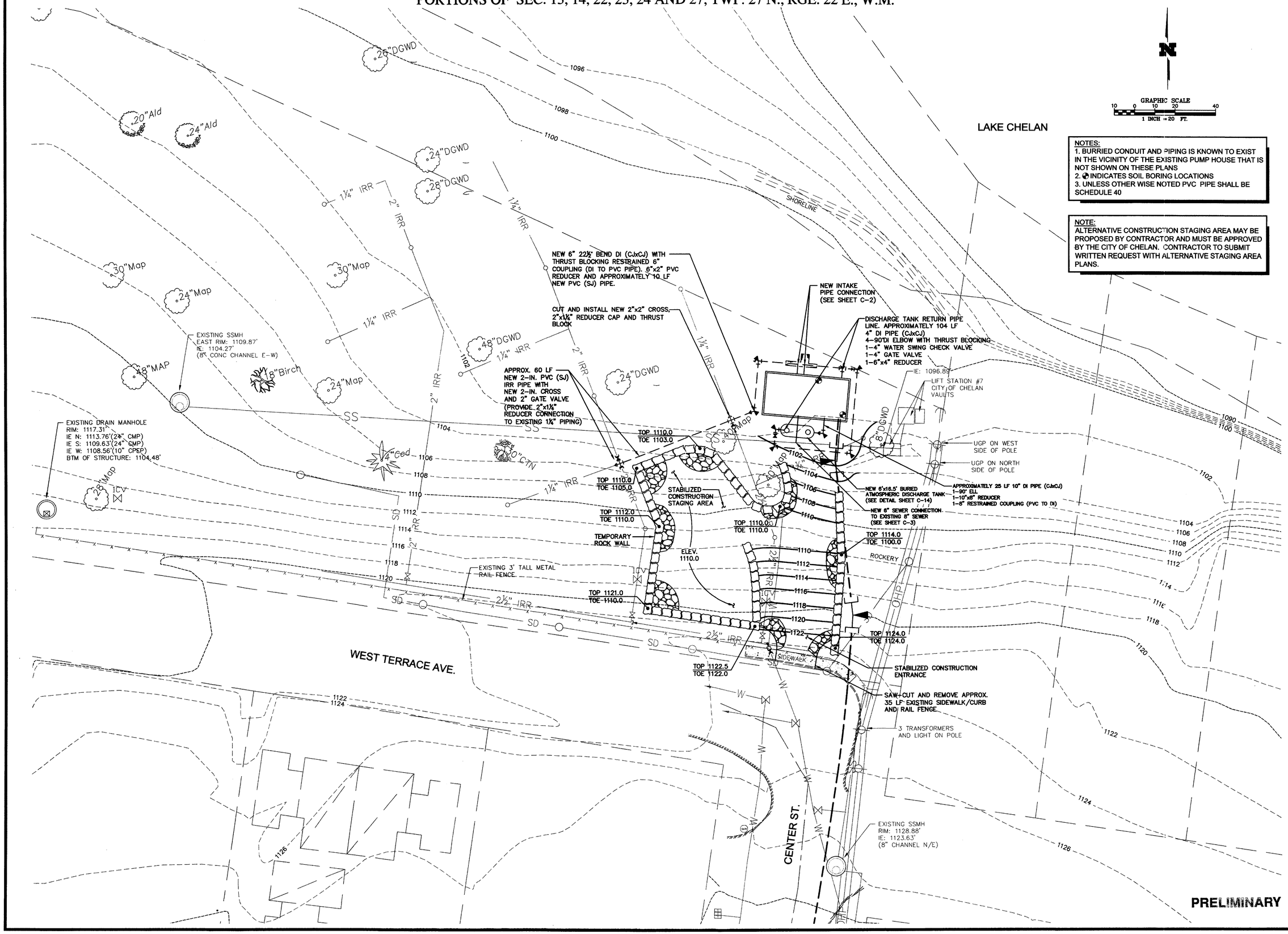
DAYBREAK IRRIGATION SUPPLY SYSTEM EXISTING PUMP STATION DEMOLITION

JOB NO. 0417

SHEET G-3

R4-35039

PORTIONS OF SEC. 13, 14, 22, 23, 24 AND 27, TWP. 27 N., RGE. 22 E., W.M.



NOTES:
1. BURRIED CONDUIT AND PIPING IS KNOWN TO EXIST IN THE VICINITY OF THE EXISTING PUMP HOUSE THAT IS NOT SHOWN ON THESE PLANS
2. ◆ INDICATES SOIL BORING LOCATIONS
3. UNLESS OTHER WISE NOTED PVC PIPE SHALL BE SCHEDULE 40

NOTE:
ALTERNATIVE CONSTRUCTION STAGING AREA MAY BE PROPOSED BY CONTRACTOR AND MUST BE APPROVED BY THE CITY OF CHELAN. CONTRACTOR TO SUBMIT WRITTEN REQUEST WITH ALTERNATIVE STAGING AREA PLANS.

No.	Revisions	Date	By

Date	3-9-05
Scale	AS SHOWN
Drawn	CWA
Designed	JRD
Checked	EG

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Engineers • Planners • Surveyors
4032 148th Ave. N.E.
Redmond, WA 98052
PHONE (425) 881-7430 Fax (425) 881-7731

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JAMES R. DAYLER STATE OF WASHINGTON 17855 REGISTERED PROFESSIONAL ENGINEER
EXPIRES 7-2-

DAYBREAK
IRRIGATION SUPPLY SYSTEM
LAKESIDE PUMP STATION
SITE PLAN

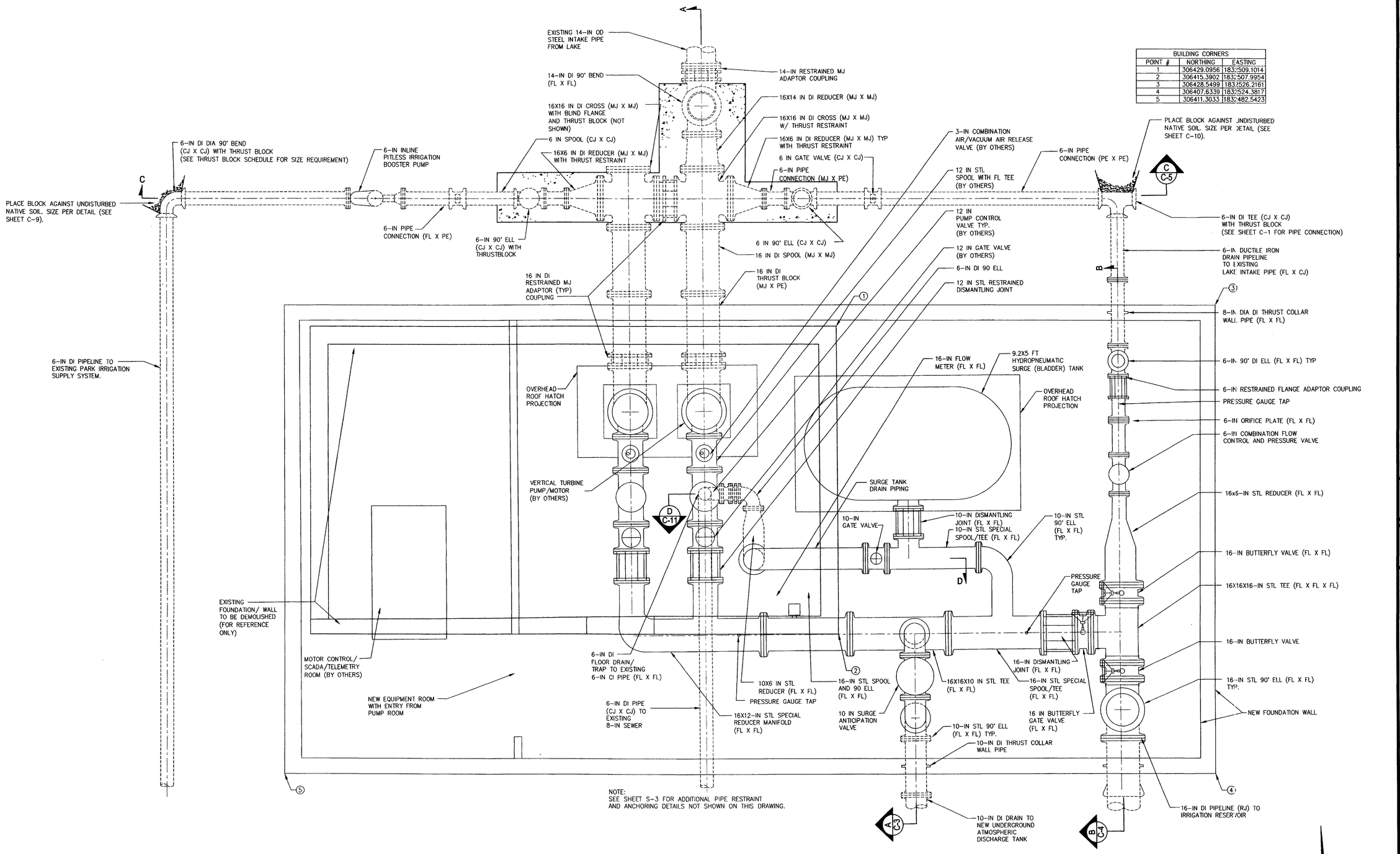
JOB NO. 0417

SHEET C-1

PRELIMINARY

R4-35039

PORTIONS OF SEC. 13, 14, 22, 23, 24 AND 27, TWP. 27 N., RGE. 22 E., W.M.



BUILDING CORNERS		
POINT #	NORTHING	EASTING
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2	306415.3902	1832507.9954
3	306428.5499	1832526.2161
4	306407.6339	1832524.3817
5	306411.3033	1832482.5423

PRELIMINARY

No.	Revisions	Date	By

Date 3-9-05
Scale AS SHOWN
Drawn CWA
Designed JRD
Checked EG

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Engineers • Planners • Surveyors
4032 148th Ave. N.E.
Redmond, WA 98052
PHONE (425) 881-7430 Fax (425) 881-7731

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STATE OF WASHINGTON
DEXTER R. MCCUNE
31659
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 7-2-

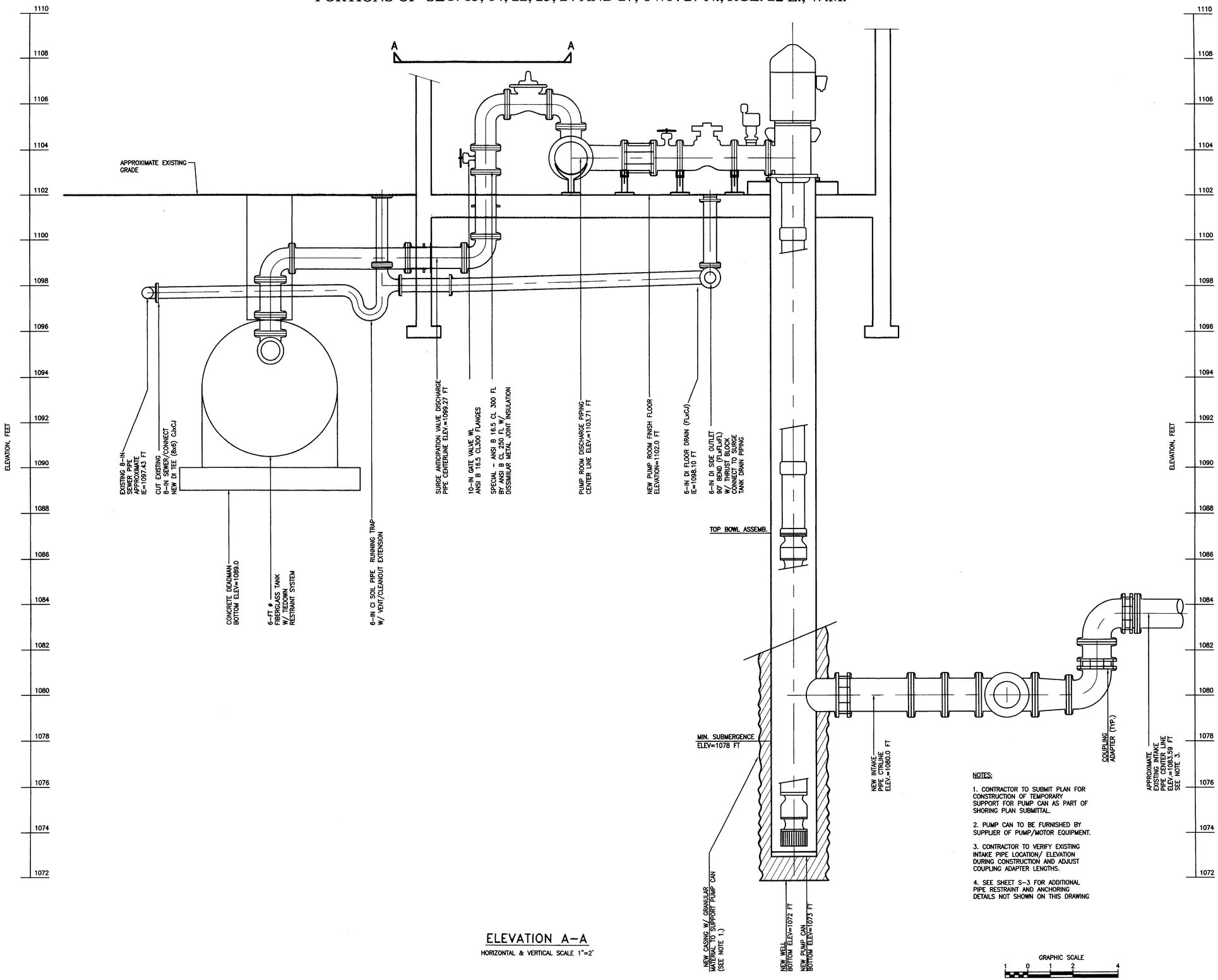
DAYBREAK IRRIGATION SUPPLY SYSTEM LAKESIDE PUMP STATION PIPING PLAN

JOB NO. 0417

SHEET C-2

R4-35039

PORTIONS OF SEC. 13, 14, 22, 23, 24 AND 27, TWP. 27 N., RGE. 22 E., W.M.



ELEVATION A-A

HORIZONTAL & VERTICAL SCALE 1"=2'

NOTES:

1. CONTRACTOR TO SUBMIT PLAN FOR CONSTRUCTION OF TEMPORARY SUPPORT FOR PUMP CAN AS PART OF SHORING PLAN SUBMITTAL.

2. PUMP CAN TO BE FURNISHED BY SUPPLIER OF PUMP/MOTOR EQUIPMENT.

3. CONTRACTOR TO VERIFY EXISTING INTAKE PIPE LOCATION/ ELEVATION DURING CONSTRUCTION AND ADJUST COUPLING ADAPTER LENGTHS.

4. SEE SHEET S-3 FOR ADDITIONAL PIPE RESTRAINT AND ANCHORING DETAILS NOT SHOWN ON THIS DRAWING

PRELIMINARY

No.	Revisions	Date	By

Date 3-9-05
Scale 1"=2'
Drawn
Designed JRD
Checked EG

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Redmond, WA 98052
PHONE (425) 881-7430 Fax (425) 881-7731

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JAMES R. DELLER STATE OF WASHINGTON 22455 REGISTERED PROFESSIONAL ENGINEER
EXPIRES 7-2-

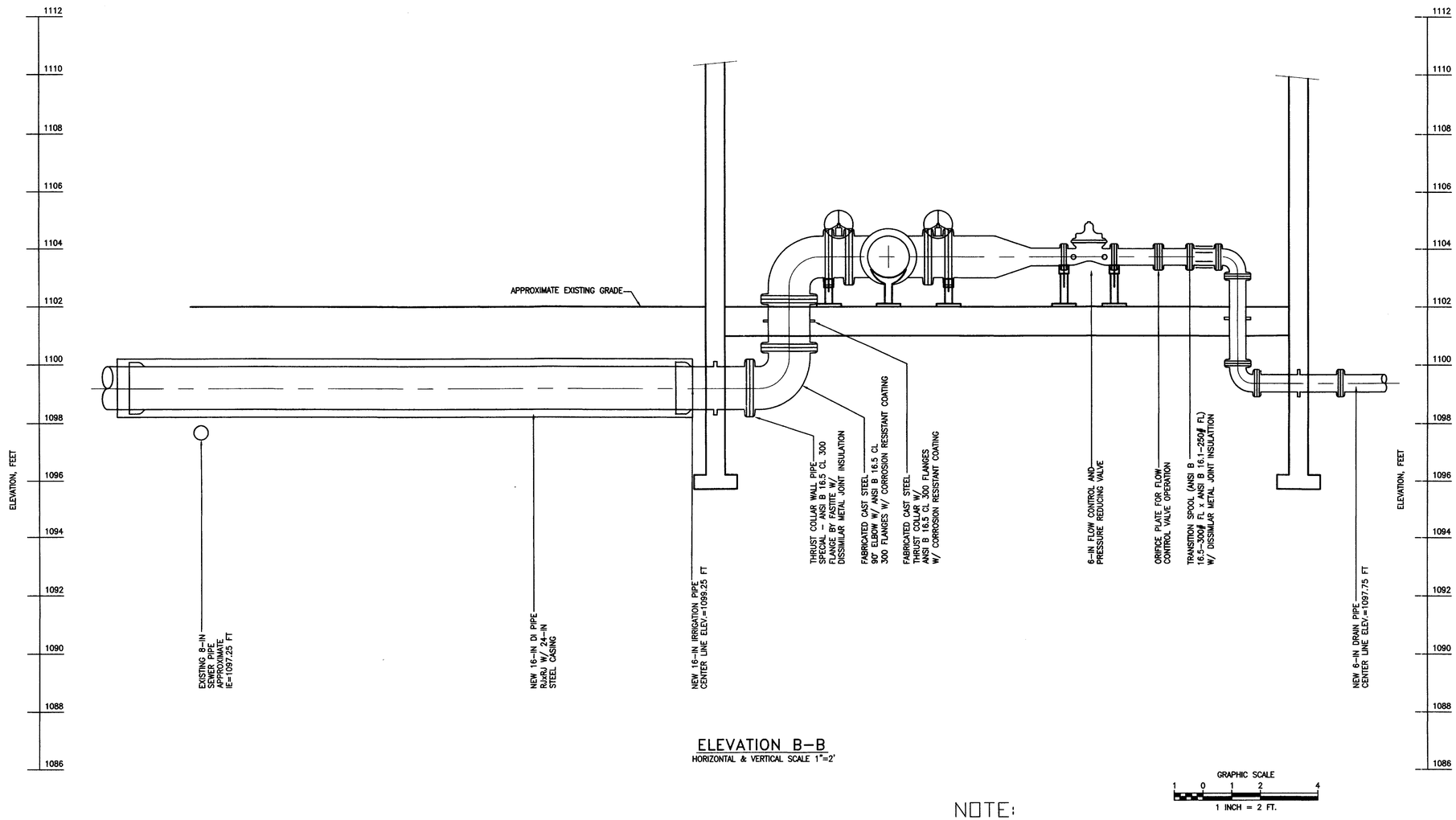
DAYBREAK IRRIGATION SUPPLY SYSTEM LAKESIDE PUMP STATION PIPING ELEVATION A-A

JOB NO. 0417

SHEET C-3

R4-35039

PORTIONS OF SEC. 13, 14, 22, 23, 24 AND 27, TWP. 27 N., RGE. 22 E., W.M.



ELEVATION B-B
HORIZONTAL & VERTICAL SCALE 1"=2'

NOTE:
SEE SHEET S-3 FOR ADDITIONAL PIPE RESTRAINT AND ANCHORING DETAILS NOT SHOWN ON THIS DRAWING

PRELIMINARY

No.	Revisions	Date	By
1	FOWLER CHANGES	04-14-05	JD

Date 3-9-05
Scale 1"=2'
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Designed JRD
Checked EG

American Engineering Corporation
Engineers • Planners • Surveyors
4032 148th Ave. N.E.
Redmond, WA 98052
PHONE (425) 881-7430 Fax (425) 881-7731

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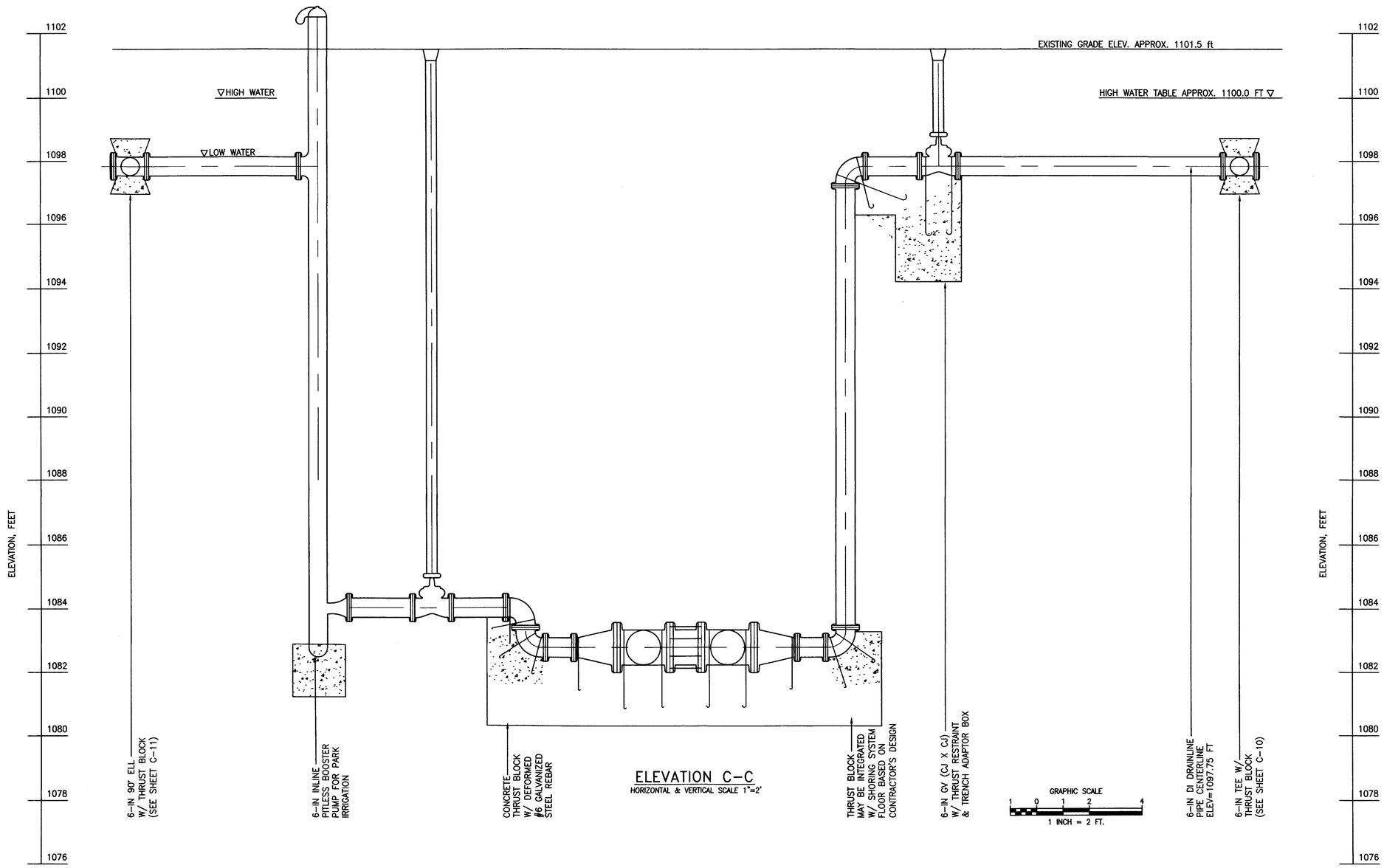
LARRY R. DEXTER STATE OF WASHINGTON 21802 REGISTERED PROFESSIONAL ENGINEER
EXPIRES 7-2-

DAYBREAK
IRRIGATION SUPPLY SYSTEM
LAKESIDE PUMP STATION
PIPING ELEVATION B-B

JOB NO. 0417
SHEET C-4

R4-35039

PORTIONS OF SEC. 13, 14, 22, 23, 24 AND 27, TWP. 27 N., RGE. 22 E., W.M.



ELEVATION C-C
HORIZONTAL & VERTICAL SCALE 1"=2'

PRELIMINARY

No.	Revisions	Date	By

Date 3-9-05
Scale 1"=2'
Drawn
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JAMES R. DEETER
STATE OF WASHINGTON
21352
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 7-2-

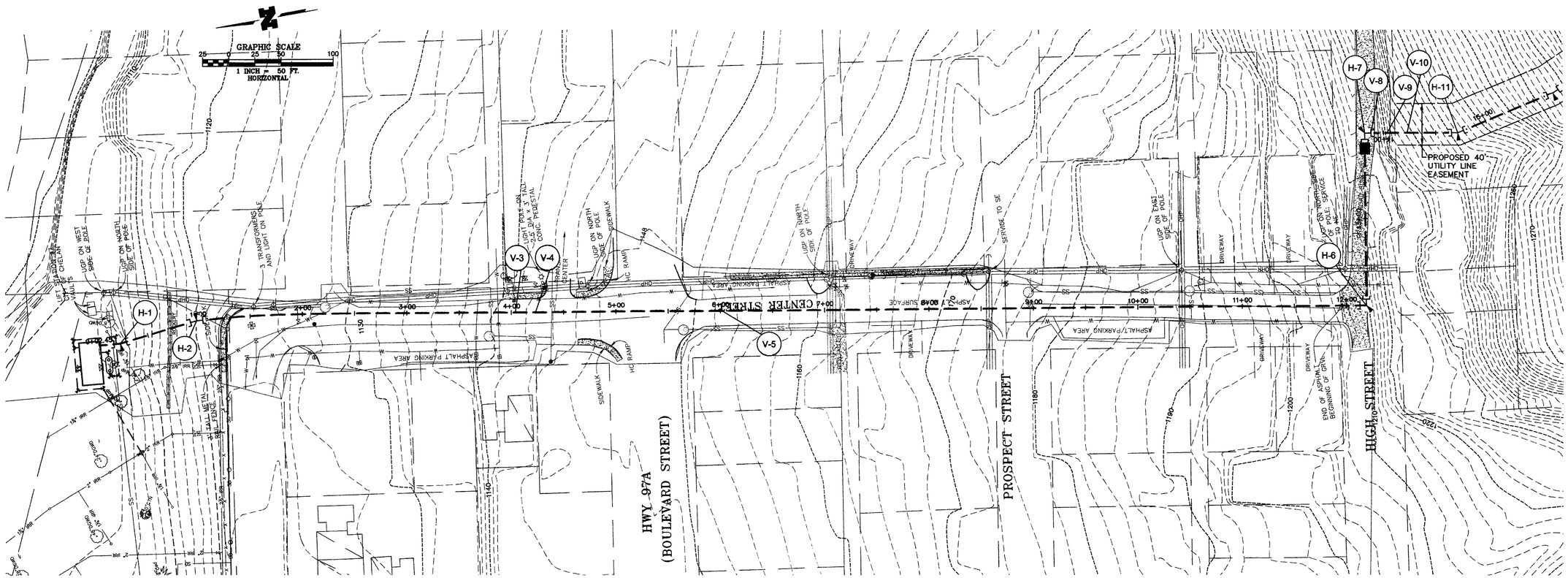
DAYBREAK
IRRIGATION SUPPLY SYSTEM
LAKESIDE PUMP STATION
PIPING ELEVATION C-C

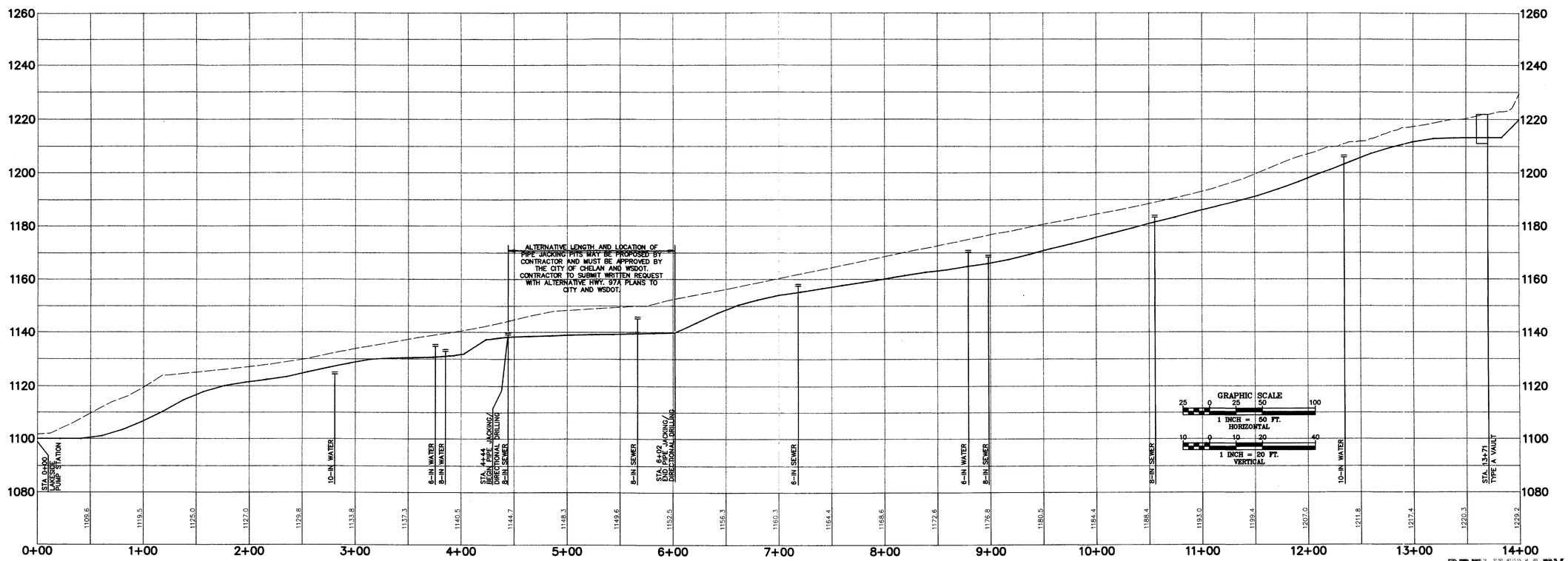
JOB NO. 0417

SHEET C-5

K4-35039

PORTIONS OF SEC. 13, 14, 22, 23, 24 AND 27, TWP. 27 N., RGE. 22 E., W.M.





No.	Revisions	Date	By

Date	3-9-05
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JAMES R. DEXTER STATE OF WASHINGTON 31052 REGISTERED PROFESSIONAL ENGINEER
EXPIRES 7-2-

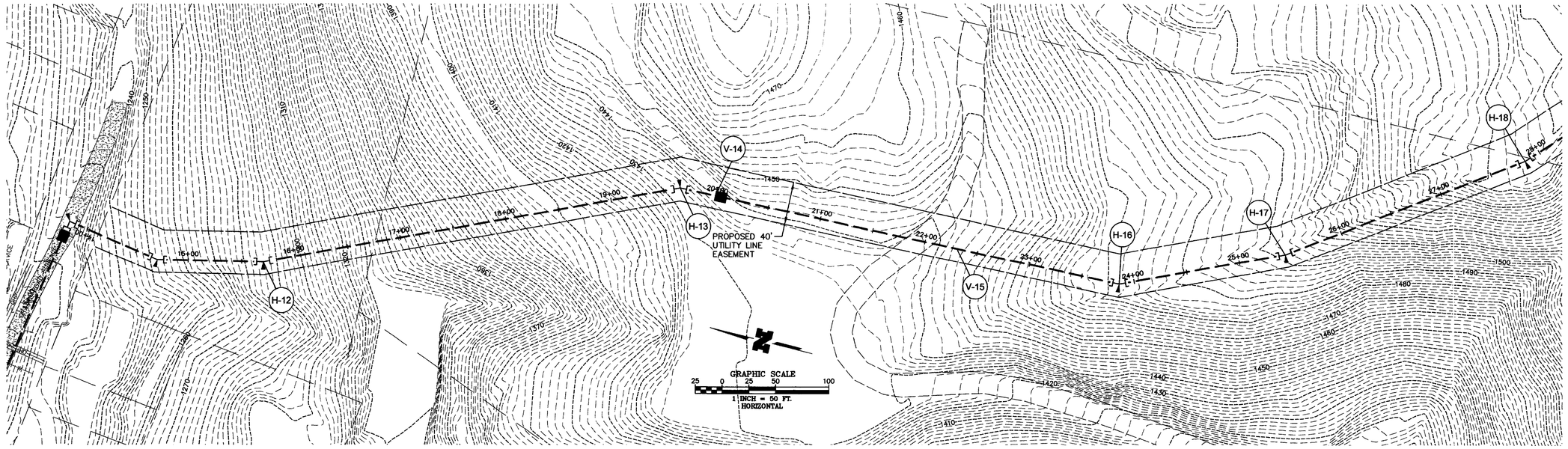
DAYBREAK IRRIGATION PLAN SET
IRRIGATION PLAN AND PROFILE STA: 0+00 - 14+00

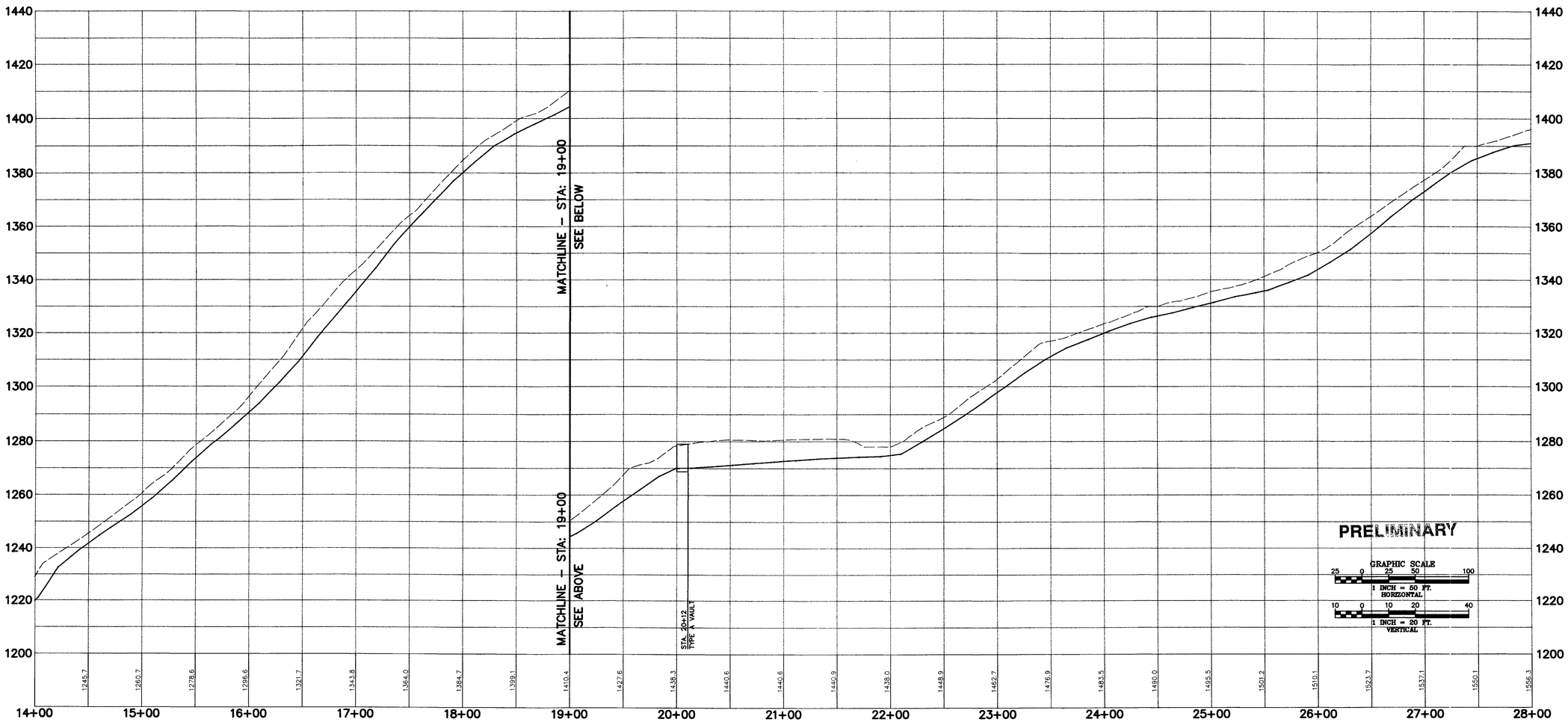
JOB NO. 0417

SHEET C-6

R4-35039

PORTIONS OF SEC. 13, 14, 22, 23, 24 AND 27, TWP. 27 N., RGE. 22 E., W.M.





No.	Revisions	Date	By

Date 3-9-05
Scale AS SHOWN
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JAMES R. DEITER STATE OF WASHINGTON 21952 REGISTERED PROFESSIONAL ENGINEER
EXPIRES 7-2-

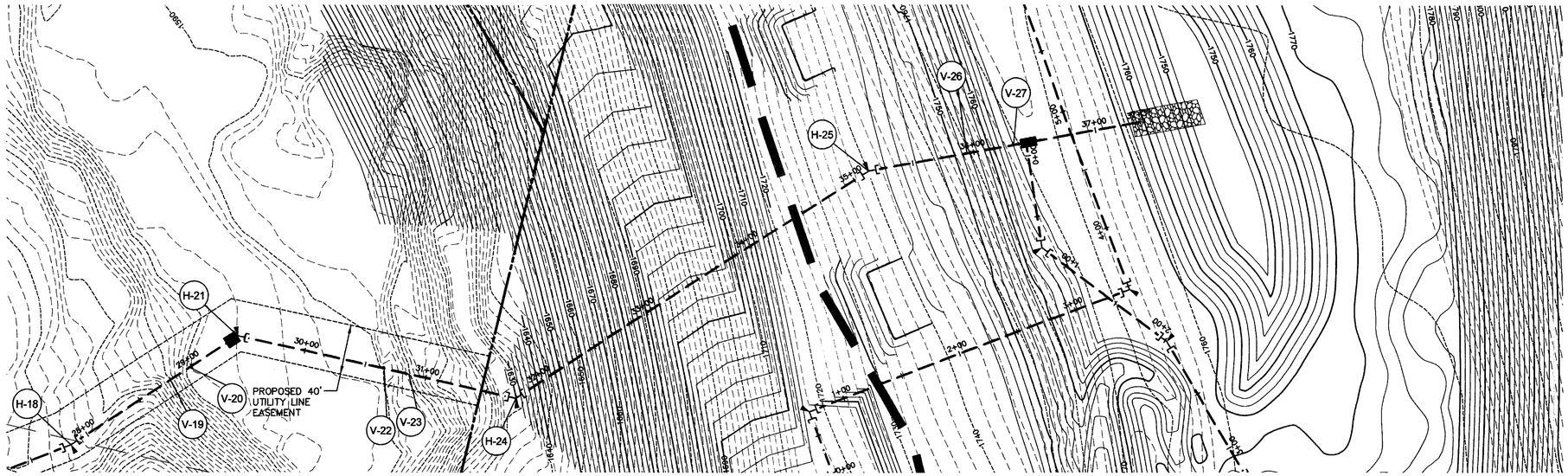
DAYBREAK
IRRIGATION PLAN SET
IRRIGATION PLAN AND PROFILE
STA: 14+00 – 28+00

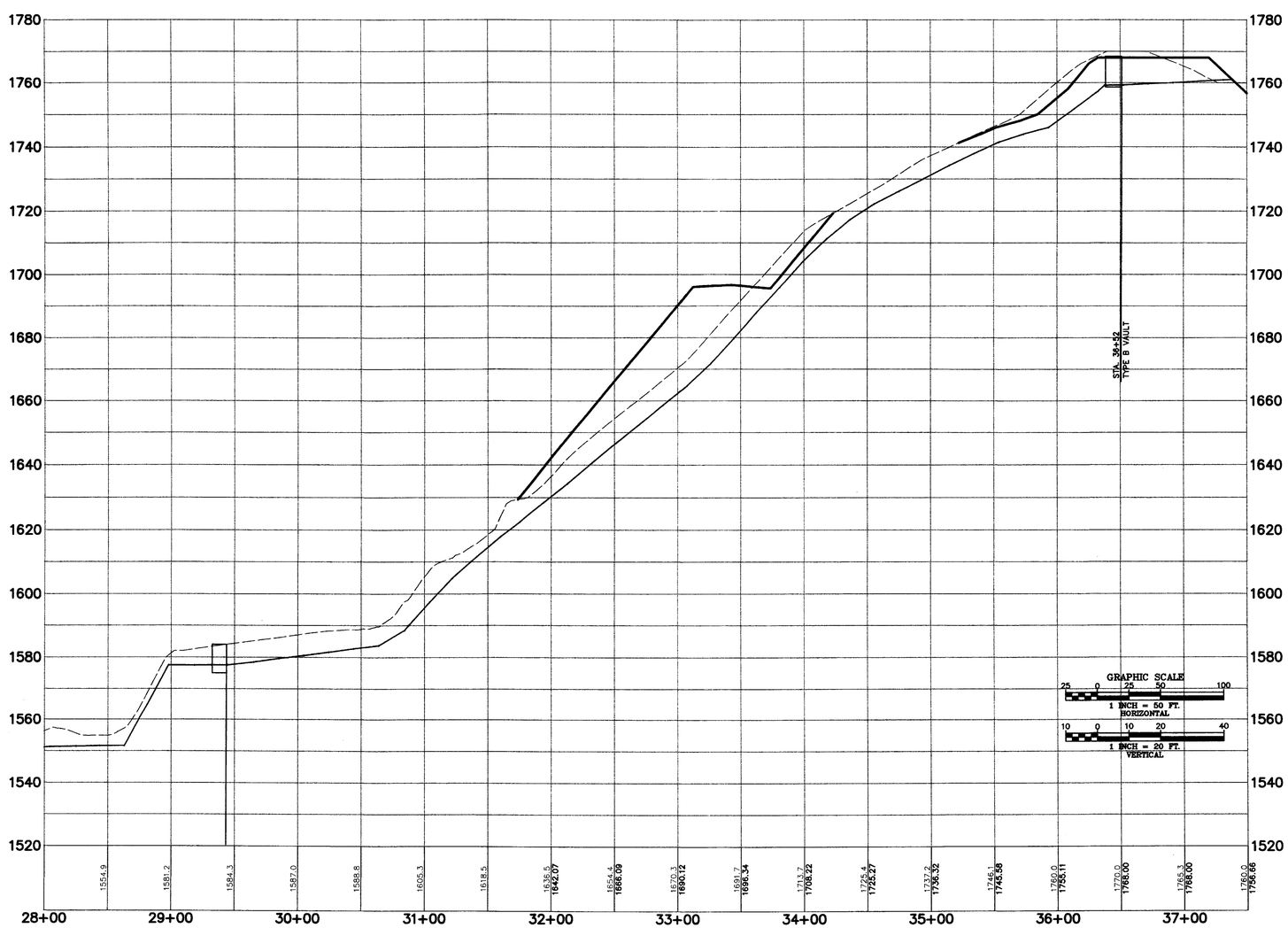
JOB NO. 0417

SHEET C-7

R4-35039

PORTIONS OF SEC. 13, 14, 22, 23, 24 AND 27, TWP. 27 N., RGE. 22 E., W.M.





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No.	Revisions	Date	By

Date	3-9-05
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DAVID R. DEXTER STATE OF WASHINGTON 21255 REGISTERED PROFESSIONAL ENGINEER
EXPIRES 7-2-

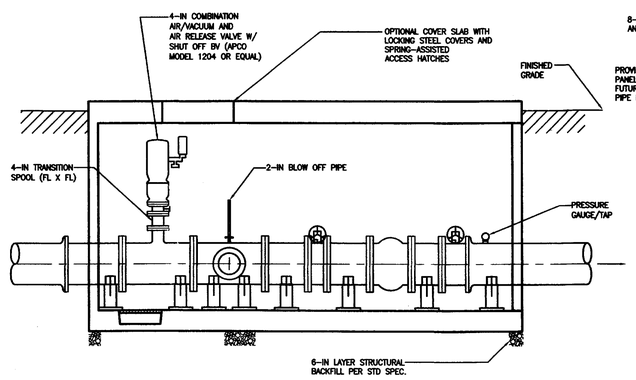
DAYBREAK
IRRIGATION PLAN SET
IRRIGATION PLAN AND PROFILE
STA: 28+00 - 38+00

JOB NO. 0417

SHEET C-8

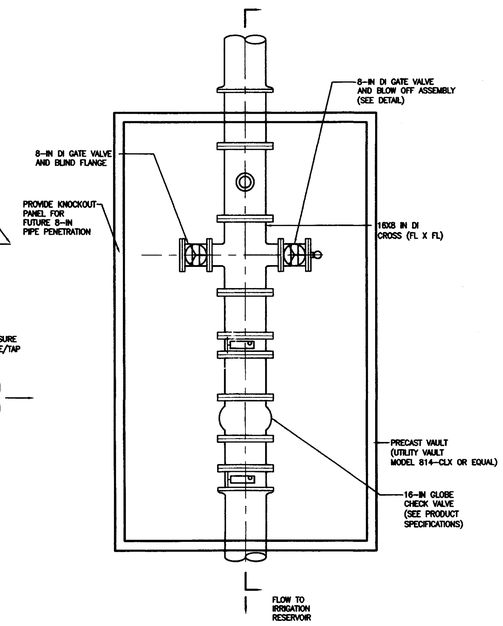
K4-35039

PORTIONS OF SEC. 13, 14, 22, 23, 24 AND 27, TWP. 27 N., RGE. 22 E., W.M.



FLOW CONTROL VAULT TYPE B ELEVATION

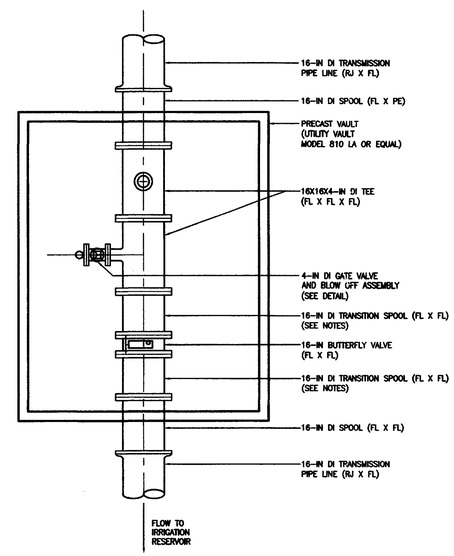
HORIZONTAL & VERTICAL
SCALES: 1"=2'



NOTE: UNLESS OTHERWISE NOTED, FITTINGS IN THIS VAULT ARE IDENTICAL TO VAULT TYPE A.

INTERIOR PIPING PLAN
FLOW CONTROL VAULT TYPE B

HORIZONTAL SCALE: 1"=2'



INTERIOR PIPING PLAN
FLOW CONTROL VAULT TYPE A

HORIZONTAL SCALE: 1"=2'

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JAMES R. DEXTER STATE OF WASHINGTON 31852 REGISTERED PROFESSIONAL ENGINEER
EXPIRES 7-2-

DAYBREAK
IRRIGATION TRANSMISSION PIPELINE
FLOW CONTROL
VAULT PLAN(S) & ELEVATIONS

JOB NO. 0417

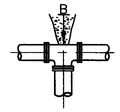
SHEET C-9

R4-35039

PORTIONS OF SEC. 13, 14, 22, 23, 24 AND 27, TWP. 27 N., RGE. 22 E., W.M.

THRUST BLOCK – TABLE							
		MINIMUM BEARING AREA AGAINST UNDISTURBED SOIL (SQUARE FEET)					
PIPE SIZE	PRESSURE PSI	A	B	C	D	E	X
4"	200	2	1	1	NONE	NONE	1
	250	2	2	1	NONE	NONE	2
	300	3	2	1	NONE	NONE	2
	350	3	2	2	NONE	NONE	2
6"	200	4	3	2	1	1	3
	250	5	4	3	1	1	4
	300	6	4	3	2	1	4
	350	7	5	4	2	1	5
8"	200	7	5	4	2	1	USE RJ
	250	9	6	5	2	1	
	300	11	8	6	3	1	
	350	12	9	7	3	2	
10"	200	11	8	6	3	2	USE RJ
	250	14	10	8	4	2	
	300	17	12	9	5	2	
	350	19	14	11	5	3	
16"	200	28	20	15	8	4	USE RJ
	250	36	25	19	10	5	
	300	43	30	23	12	6	
	350	50	35	27	14	7	

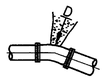
90° BEND



TEE

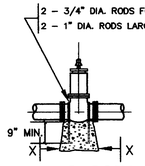
BLIND FLANGE

45° BEND



22 1/2° BEND

11 1/4° BEND



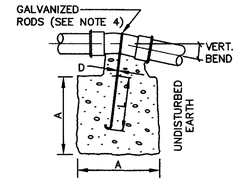
NOTE: RJ OR BLOCKING MUST BE PROVIDED FOR VALVE AT END OF LINE DURING TESTING.

CLOSED GATE VALVE

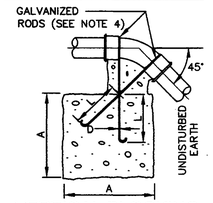
NOTES:
1. SQUARE FEET OF CONCRETE THRUST BLOCK AREA BASED ON SAFE BEARING LOAD OF 3000 POUNDS PER SQUARE FOOT.
2. AREAS MUST BE ADJUSTED FOR OTHER SIZE PIPE, PRESSURES & SOIL CONDITIONS.
3. CONCRETE BLOCKING SHALL BE CAST IN PLACE & HAVE MINIMUM OF 1/4 SQUARE FOOT BEARING AGAINST THE FITTING.
4. BLOCK SHALL BEAR AGAINST FITTINGS ONLY & SHALL BE CLEAR OF JOINTS TO PERMIT TAKING UP OR DISMANTLING JOINT.
5. CONTRACTOR SHALL INSTALL BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE AS WELL AS TO CONTINUOUSLY WITHSTAND OPERATING PRESSURE UNDER CONDITIONS OF SERVICE.
6. ADDITIONAL THRUST BLOCKING MAY BE SHOWN ON DRAWINGS FOR SPECIAL SITUATIONS

HORIZONTAL CONCRETE BLOCKING

NO SCALE



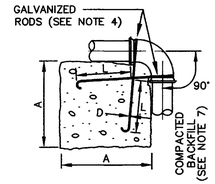
VERTICAL BLOCKING
11 1/4° & 22 1/2° BENDS



VERTICAL BLOCKING
FOR 45° BENDS

NOTES:
1. RESTRAINED JOINTS SHALL BE USED ON CHANGES IN DIRECTION OR DIAMETER WITHIN 20 FEET OF THE VERTICAL BEND.
2. CONCRETE BLOCKING SIZES BASED ON:
   – 20 FEET OF PIPE RESTRAINED EACH SIDE OF BEND.
   – THRUST BLOCK AREAS BASED ON SAFE BEARING LOAD OF 3,000 PSF.
   – 2,500 PSI CONCRETE.
   – MINIMUM 3 FEET OF COVER.
   – THRUST BASED ON 250 PSI PRESSURE.
   – VERTICAL BLOCK SIZE BASED ON CONCRETE WEIGHT OF 145 POUNDS PER CUBIC FOOT.
   –TRENCH CONDITIONS BASED ON TYPE 5

   – FACTOR OF SAFETY IS 1.5.
   – SOIL FRICTIONAL RESISTANCE BASED ON COHESIVE GRANULAR SOIL TYPE (GC+SC). SAND, GRAVEL, CLAY MIXTURE.
3. BLOCKING DESIGN MUST BE ADJUSTED FOR OTHER SIZE PIPE, PRESSURES AND SOIL CONDITIONS.
4. DEFORMED REINFORCEMENT BARS SHALL BE IN ACCORDANCE WITH ASTM A 615. BARS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 767.
5. LINE SHALL NOT BE PRESSURIZED UNTIL ALL TRENCHING WITHIN 100 FEET OF VERTICAL BEND IS BACKFILLED AND COMPACTED TO MINIMUM COVER OF 3 FEET OVER PIPE. ALLOW SEVEN DAYS FOR CONCRETE TO CURE BEFORE HYDROSTATIC PRESSURE TESTING. USE TYPE III HIGH EARLY CEMENT FOR FAST CURING.
6. BACKFILL TRENCH BEYOND 90' VERTICAL BLOCK WITH CRUSHED SURFACING TOP COURSE MATERIAL COMPACTED TO 95% MAXIMUM DENSITY. CRUSHED BACKFILL SHALL EXTEND 20 FEET BEYOND BLOCK OR TO FIRM BEARING TRENCH WALL, WHICHEVER IS LESS.

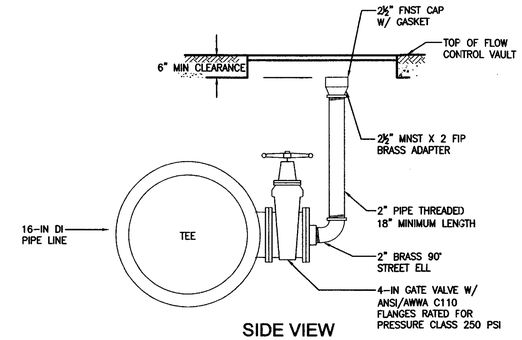


VERTICAL BLOCKING
FOR 90° BENDS
(SEE NOTE 6)

VERTICAL BLOCKING SIZE W/RESTRAINED JOINTS SOIL TYPE = COHESIVE GRANULAR [GC+SC] SAND, GRAVEL, CLAY MIXTURE					
PIPE SIZE	V B	CU FT	A	D	L
4"	11 1/4°	6	1.8'	3/4"	2.0'
	22 1/2°	12	2.3'	3/4"	2.0'
	45°	23	2.8'	3/4"	2.0'
	90°	32	3.2'	3/4"	2.0'
6"	11 1/4°	14	2.4'	3/4"	2.0'
	22 1/2°	28	3.0'	3/4"	2.0'
	45°	52	3.7'	3/4"	2.0'
	90°	73	4.1'	3/4"	2.0'
8"	11 1/4°	25	2.9'	3/4"	2.0'
	22 1/2°	50	3.6'	3/4"	2.0'
	45°	92	4.4'	3/4"	2.0'
	90°	130	5.0'	3/4"	2.0'
10"	11 1/4°	40	3.4'	3/4"	2.0'
	22 1/2°	78	4.2'	3/4"	2.0'
	45°	143	5.1'	3/4"	2.0'
	90°	203	5.8'	1"	3.5'
16"	11 1/4°	101	4.6'	3/4"	2.0'
	22 1/2°	199	5.7'	3/4"	2.0'
	45°	367	7.0'	3/4"	2.0'
	90°	520	7.9'	1 1/8"	4.0'

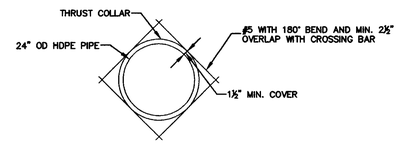
VERTICAL BLOCKING
WITH RESTRAINED JOINTS

NO SCALE



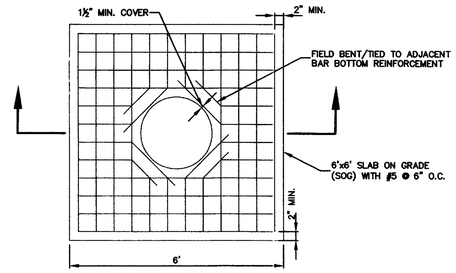
SIDE VIEW
OF 4-IN
GATE VALVE WITH
2-IN BLOW OFF ASSEMBLY

NTS



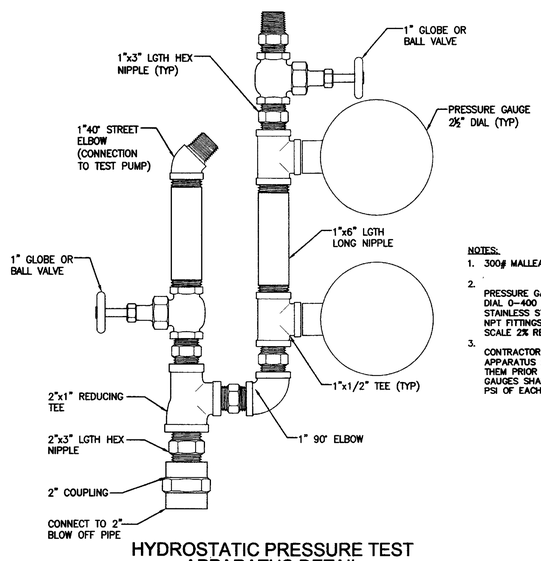
THRUST COLLAR TOP
REINFORCEMENT DETAIL

NTS



OUTLET SCREEN FOOTING
PLAN DETAIL

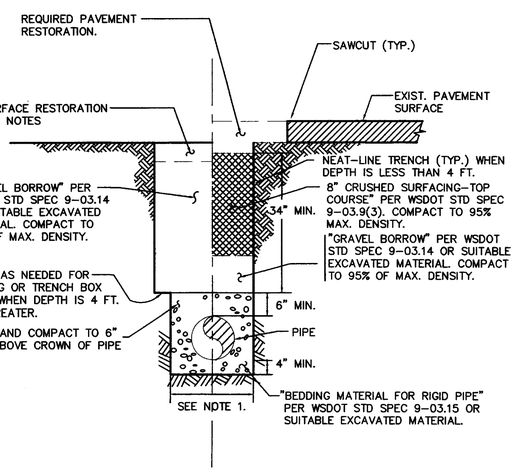
NTS



NOTES:
1. 300# MALLEABLE IRON EXTRA HEAVY FITTINGS
2. PRESSURE GAUGES SHALL BE DRY CASE 2½" DIAL 0–400 PSIG RANGE BRASS LOWER MOUNT, STAINLESS STL BLACK ABS CASE, 1/2" MALE NPT FITTINGS ACCURACY: 1% MIDDLE HALF SCALE 2% REMAINDER.
3. CONTRACTOR SHALL CONSTRUCT TWO (2) TEST APPARATUS ASSEMBLIES AND PRESSURE TEST THEM PRIOR TO HYDROSTIC PRESSURE TEST. GAUGES SHALL READ CONSISTENTLY WITHIN 2 PSI OF EACH OTHER.

HYDROSTATIC PRESSURE TEST
APPARATUS DETAIL

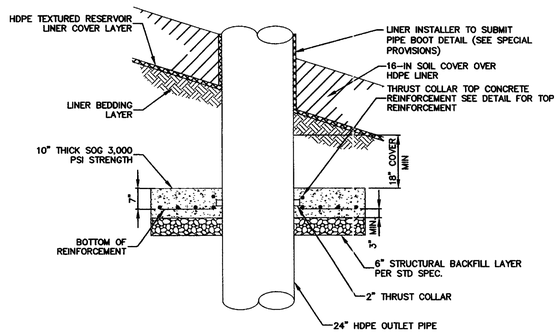
NTS



UNPAVED AREAS PAVED AREAS

NOTES:
1. MAXIMUM WIDTH OF TRENCH AT TOP OF PIPE
   * 30" FOR PIPE UP TO AND INCLUDING 12" NOMINAL DIAMETER.
   * O.D. PLUS 16" FOR PIPE LARGER THAN 12" NOMINAL DIAMETER.
2. SURFACE RESTORATION SHALL BE IN ACCORDANCE WITH TESC NOTES AND DETAILS (SEE SHEET C-18)

TYPICAL TRENCH DETAIL



OUTLET SCREEN FOOTING
ELEVATION DETAIL

NTS

PRELIMINARY

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Date 3-9-05
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JAMES R. DEXTER STATE OF WASHINGTON 31052 REGISTERED PROFESSIONAL ENGINEER
EXPIRES 7-2-

DAYBREAK
IRRIGATION TRANSMISSION
PIPE LINE DETAILS

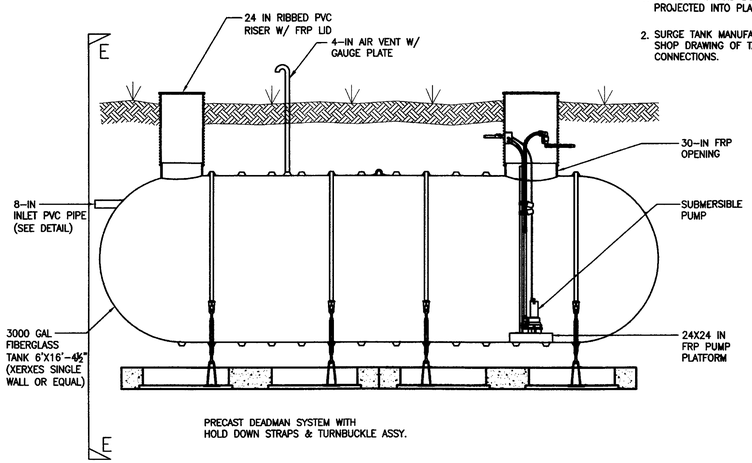
JOB NO. 0417

SHEET C-10

R4-35039

NOTES:

1. SURGE TANK AND BOTTOM CONNECTION ARE PROJECTED INTO PLANE OF ELEVATION D–D
2. SURGE TANK MANUFACTURER SHALL SUBMIT SHOP DRAWING OF TANK AND PIPING CONNECTIONS.



ATMOSPHERIC DISCHARGE TANK TYPICAL DETAIL

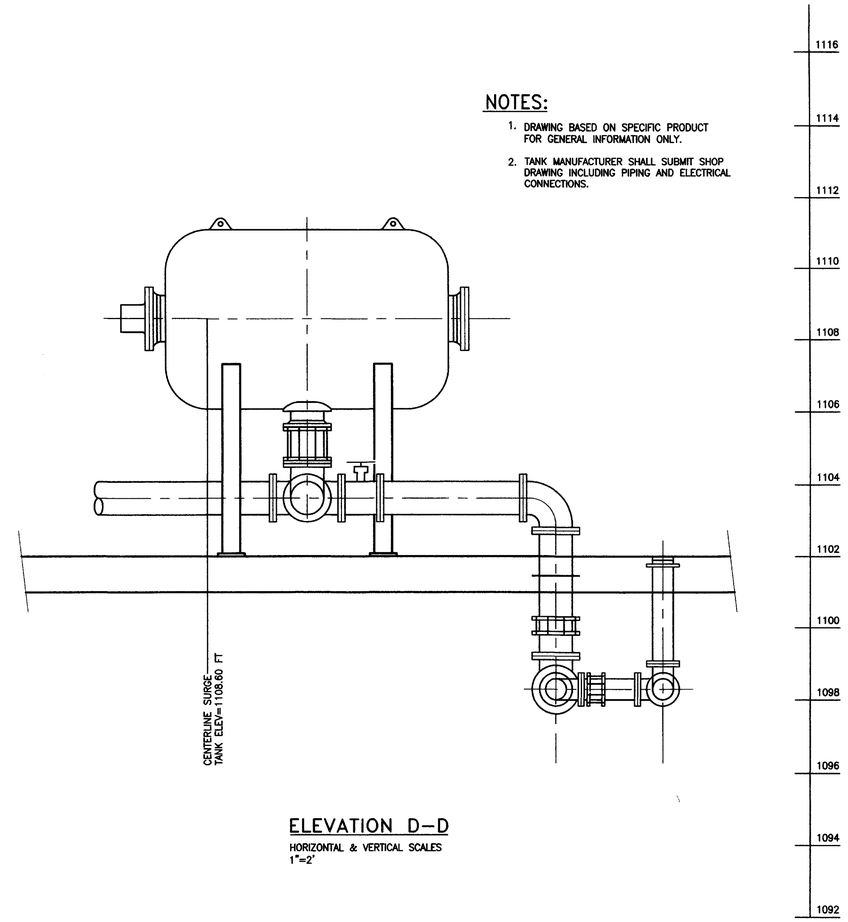
NTS

NOTE:

THIS DRAWING WAS PREPARED BY XERXES CROPORATION FOR THIS PROJECT – NOT BY AMERICAN ENGINEERING CORPORATION.

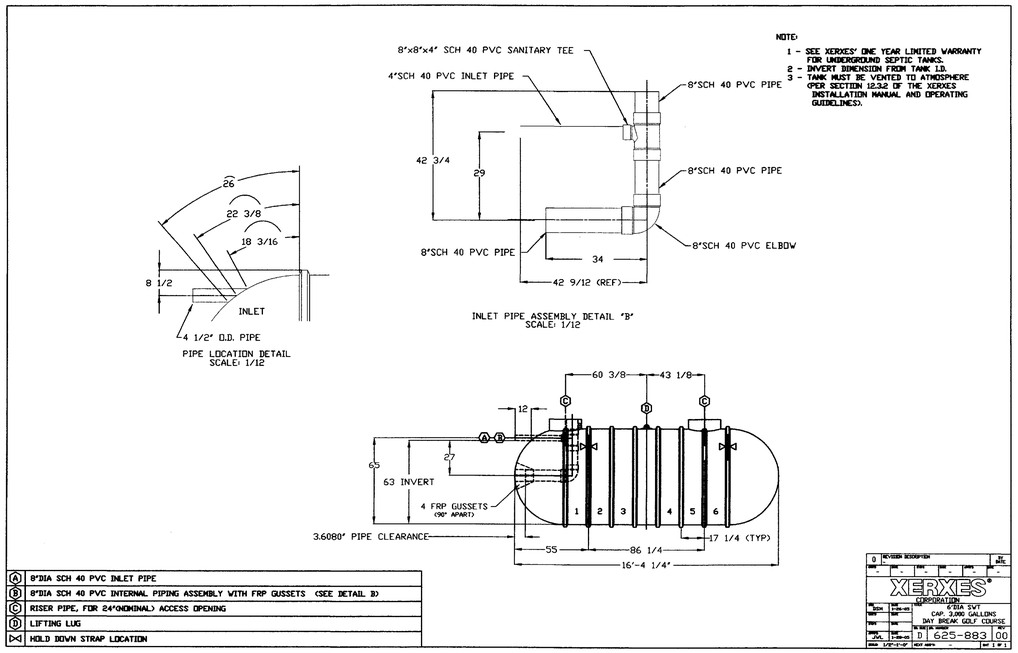
NOTES:

1. DRAWING BASED ON SPECIFIC PRODUCT FOR GENERAL INFORMATION ONLY.
2. TANK MANUFACTURER SHALL SUBMIT SHOP DRAWING INCLUDING PIPING AND ELECTRICAL CONNECTIONS.



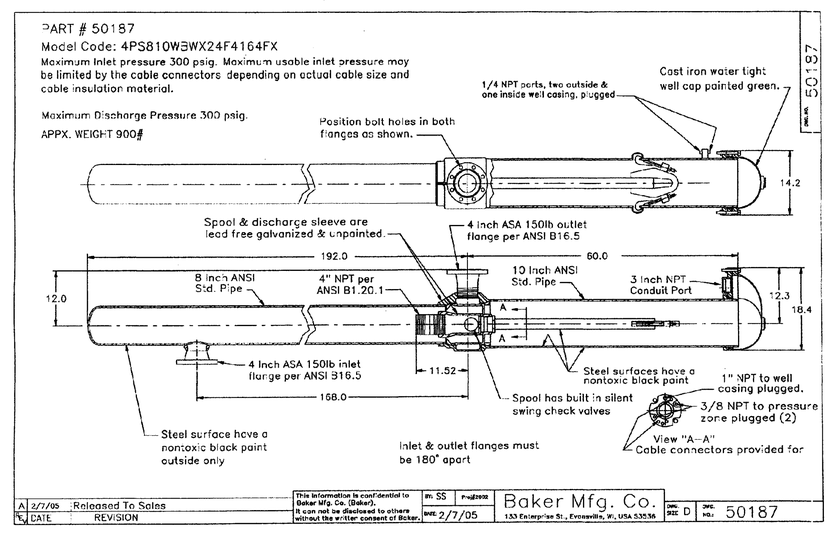
ELEVATION D–D

HORIZONTAL & VERTICAL SCALES
1"=2'



INLET PIPE DETAIL (TYP)

SCALE AS SHOWN
1"=2'



PITLESS BOOSTER PUMP DETAIL

NTS

NOTE:

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Date 3-9-05
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PHONE (425) 881-7430 Fax (425) 881-7731

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JAMES R. DEXTER STATE OF WASHINGTON 21825 REGISTERED PROFESSIONAL ENGINEER
EXPIRES 7-2-

DAYBREAK IRRIGATION SUPPLY SYSTEM MISCELLANEOUS DETAILS

JOB NO. 0417

SHEET C-11

R4-35039

PORTIONS OF SEC. 13, 14, 22, 23, 24 AND 27, TWP. 27 N., RGE. 22 E., W.M.

16-IN DI IRRIGATION TRANSMISSION PIPELINE (SEE SHEETS C-6, 7, 8)

24-IN BUTTERFLY ISOLATION VALVE & VALVE VAULT (UTILITY VAULT 3642-LA OR EQUAL)

FUTURE PACKAGE BOOSTER PUMP STATION BUILDING SITE NOT INCLUDED IN THIS PROJECT

ROCK RETAINING WALL

24-IN HDPE OUTLET PIPE (SEE SHEET C-15)

8-IN DI PIPE TO FUTURE WTP CLEARWELL - NOT PART OF THIS PROJECT (SEE SHEET C-15)

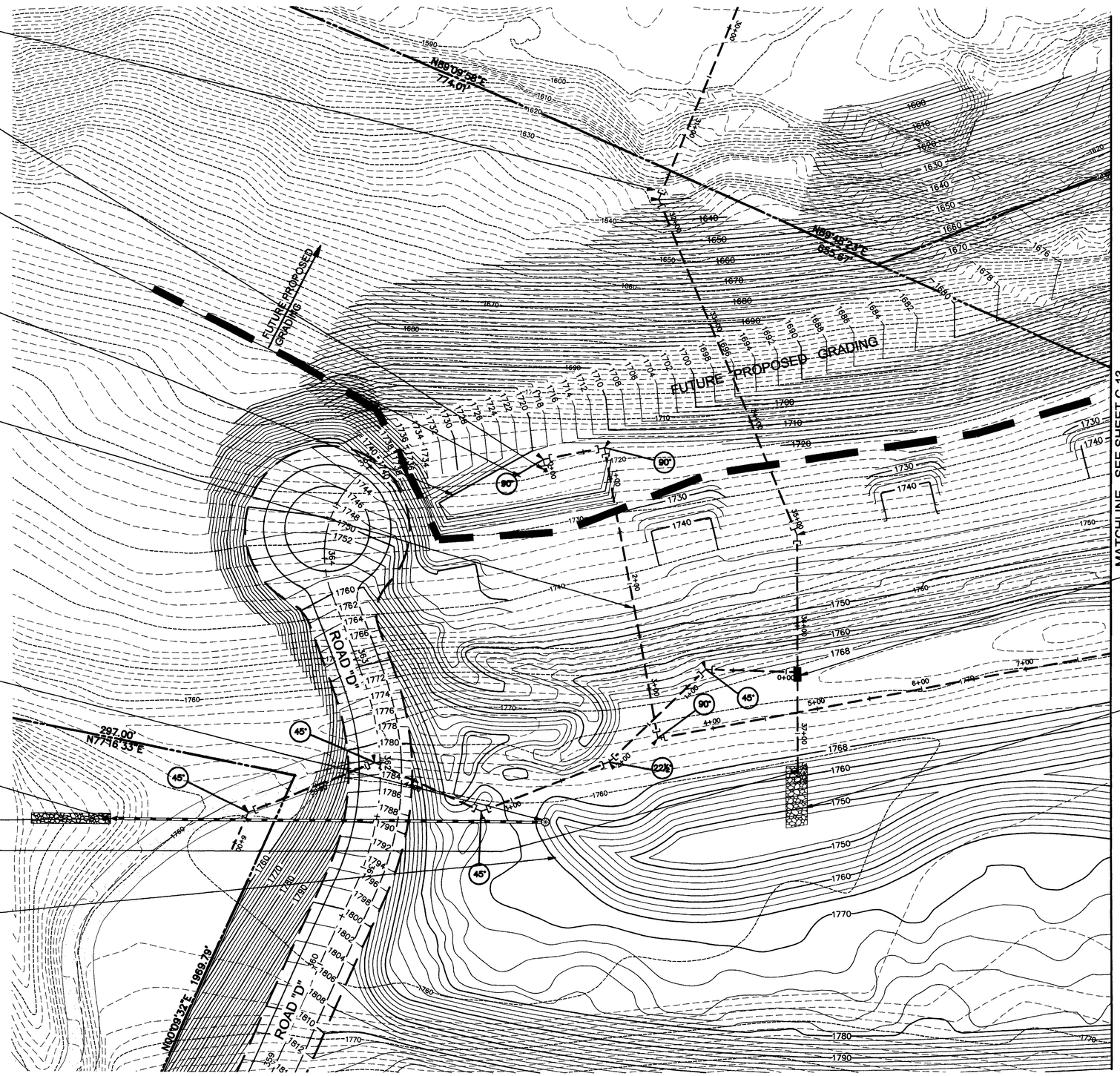
36-IN DIA EMERGENCY OUTLET WEIR MODIFICATIONS (SEE DETAIL)

24-IN CMP EMERGENCY OUTLET PIPE WITH OUTLET PROTECTION CONSTRUCTED W/ GOLF COURSE (SEE CLEARING & GRADING PROJECT DRAWINGS)

OUTLET IE=1748.0'

16-IN DIA INLET/DIFFUSER VALVE (SEE DETAIL)

15.7MG LINED IRRIGATION RESERVOIR (SEE DETAILS)



TYPE B VAULT (SEE VAULT DETAILS)

58-FT LONG, 20-FT WIDE GEOSYNTHETIC CELLULAR CONFINEMENT SYSTEM FILLED WITH CRUSHED STONE FOR OUTLET PROTECTION. INSTALLATION PER INSTALLER-PROVIDED DETAIL.

GRAPHIC SCALE
25 0 25 50 100
1 INCH = 50 FT. HORIZONTAL

PRELIMINARY

No.	Revisions	Date	By
1	FOWLER CHANGES	04-14-05	JD

Date	3-9-05
Scale	AS SHOWN
Drawn	PM
Designed	JD
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JAMES R. DEXTER
STATE OF WASHINGTON
31652
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 7-2-

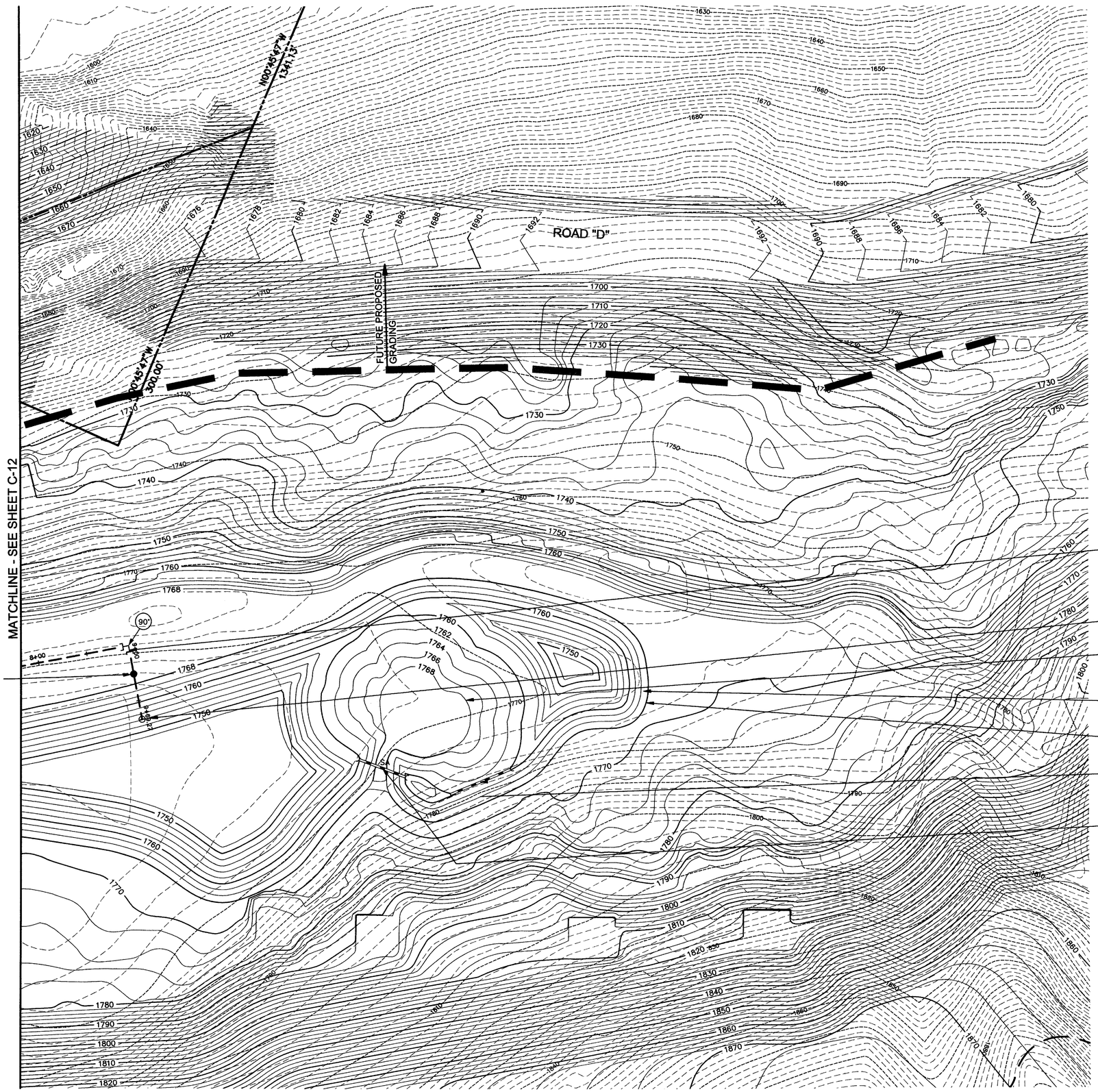
DAYBREAK
IRRIGATION SUPPLY SYSTEM
IRRIGATION RESERVOIR PLAN

JOB NO. 0417

SHEET C-12

R4-35039

PORTIONS OF SEC. 13, 14, 22, 23, 24 AND 27, TWP. 27 N., RGE. 22 E., W.M.



No.	Revisions	Date	By
1	FOWLER CHANGES	04-14-05	JD

Date	3-9-05
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JAMES R. DEXTER STATE OF WASHINGTON 22360 REGISTERED PROFESSIONAL ENGINEER
EXPIRES 7-2-

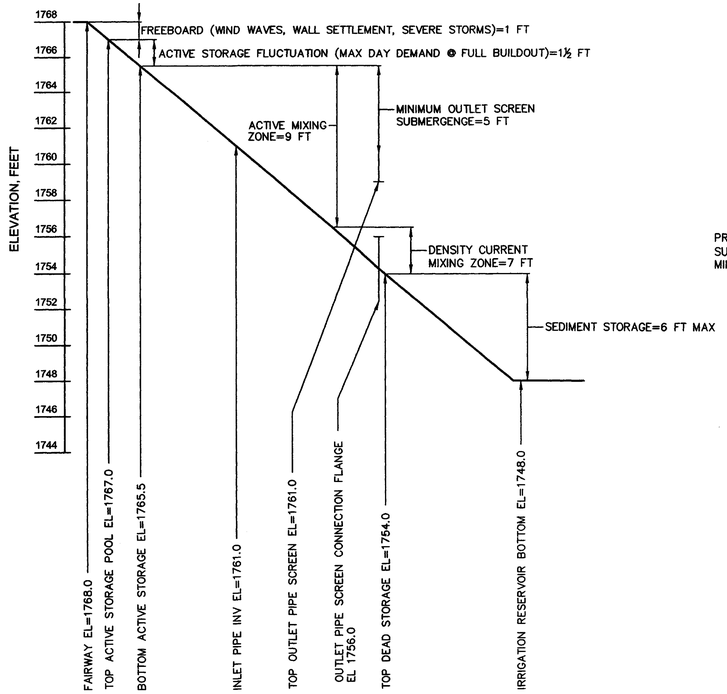
DAYBREAK
IRRIGATION SUPPLY SYSTEM
IRRIGATION RESERVOIR PLAN

JOB NO. 0417

SHEET C-13

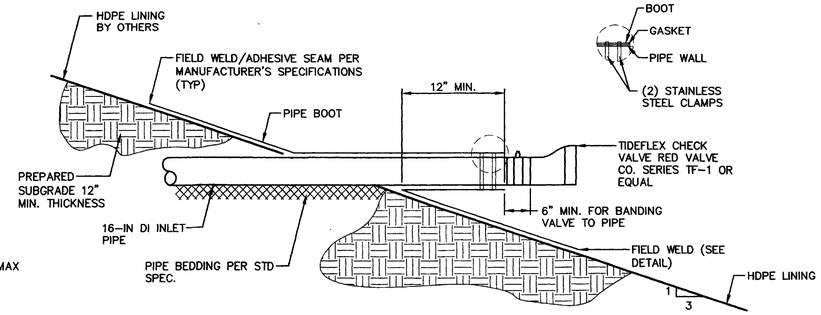
K4-35039

PORTIONS OF SEC. 13, 14, 22, 23, 24 AND 27, TWP. 27 N., RGE. 22 E., W.M.



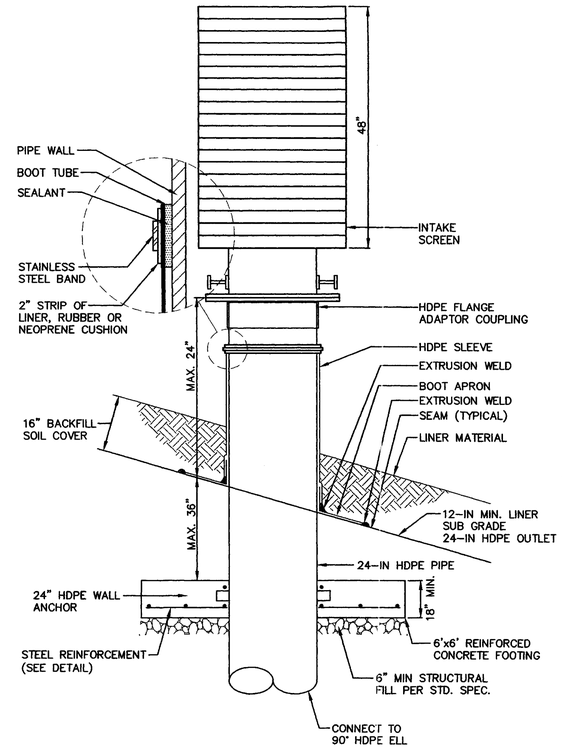
IRRIGATION RESERVOIR ELEVATION SCHEDULE

NOT TO SCALE



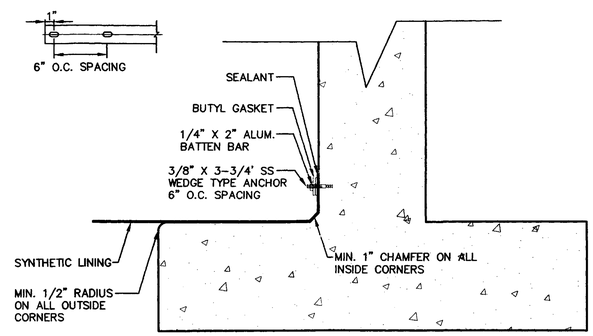
LINER SLOPE HORIZONTAL (INLET) PIPE DETAIL

NOT TO SCALE



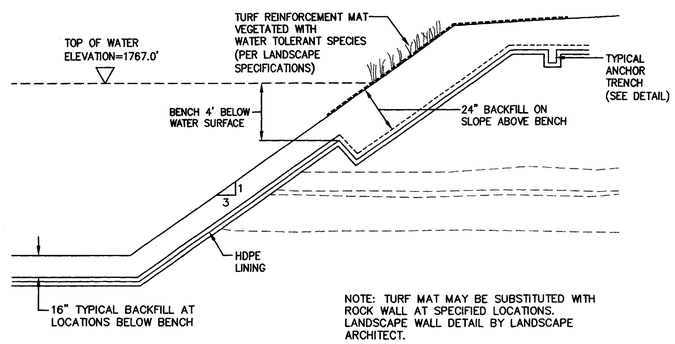
H.D.P.E. 90 PIPE BOOT DETAIL (TYP)

NOT TO SCALE



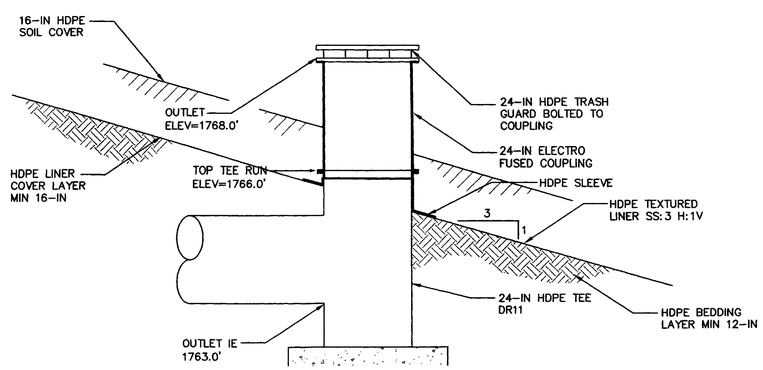
TYPICAL CONCRETE WALL LINER ATTACHMENT

NOT TO SCALE



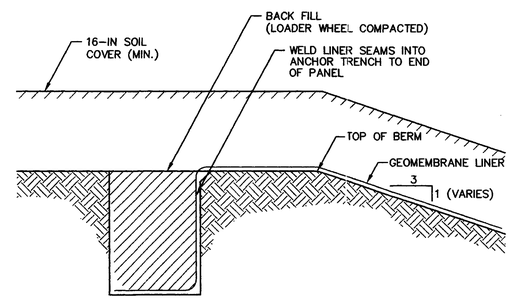
TYPICAL LINER SECTION

NOT TO SCALE



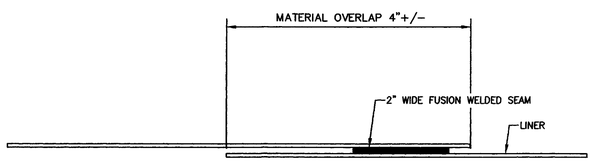
EMERGENCY OUTLET RECONSTRUCTION FOR IRRIGATION USE

NOT TO SCALE



TYPICAL ANCHOR TRENCH (TYP)

NOT TO SCALE



TYP. SOLID WEDGE WELDED SEAM

NOT TO SCALE

GENERAL NOTES

1. LINER DETAILS ARE INTENDED FOR INFORMATION CONCERNING PIPE PENETRATIONS REQUIRED AND NOT CONSTRUCTION DETAILS FOR LINER INSTALLATION.
2. CONTRACTORS LINER INSTALLATION SUBCONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING CONSTRUCTION DETAILS PER SPECIAL PROVISIONS.
3. CONTRACTOR SHALL REGRADE RESERVOIR EMBANKMENT ON MIN 3H:1V SLOPE TO ACHIEVE COVER REQUIREMENTS.

PRELIMINARY

No.	Revisions	Date	By
1	FOWLER CHANGES	04-14-05	JD

Date	3-9-05
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JAMES R. DEXTER STATE OF WASHINGTON 31052 REGISTERED PROFESSIONAL ENGINEER
EXPIRES 7-2-

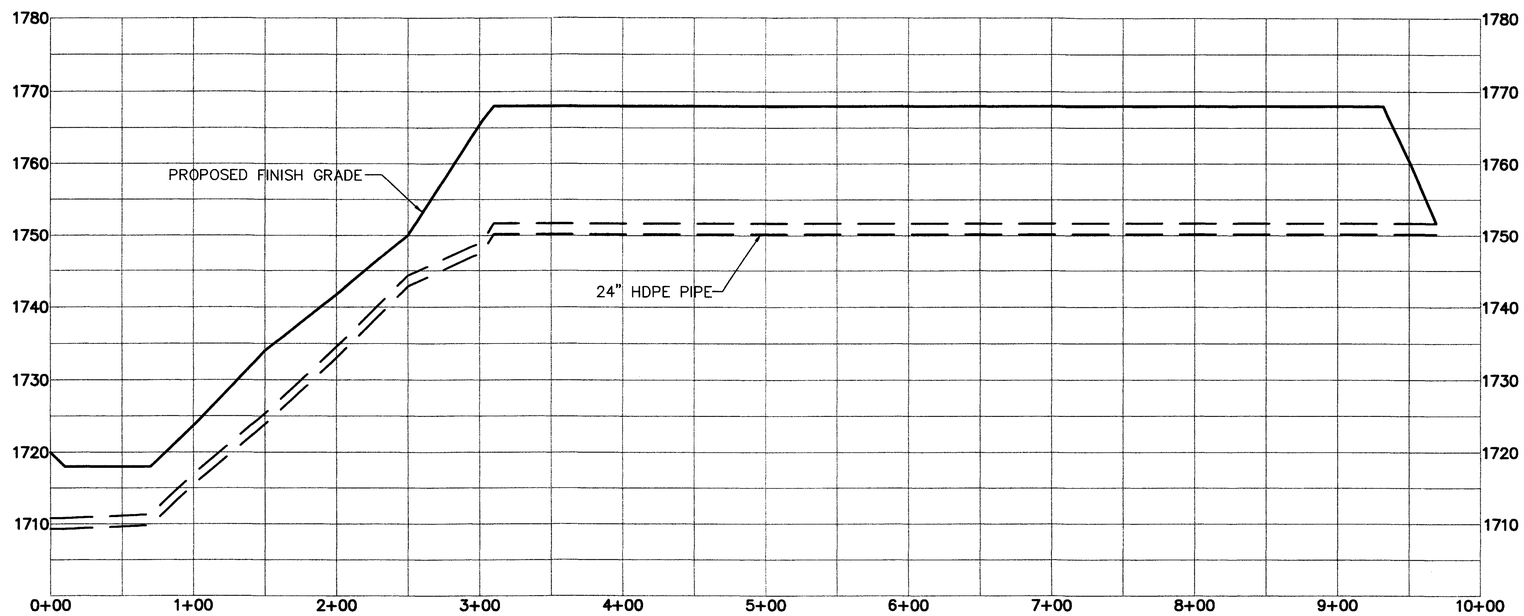
DAYBREAK IRRIGATION SUPPLY SYSTEM IRRIGATION RESERVOIR DETAILS

JOB NO. 0417

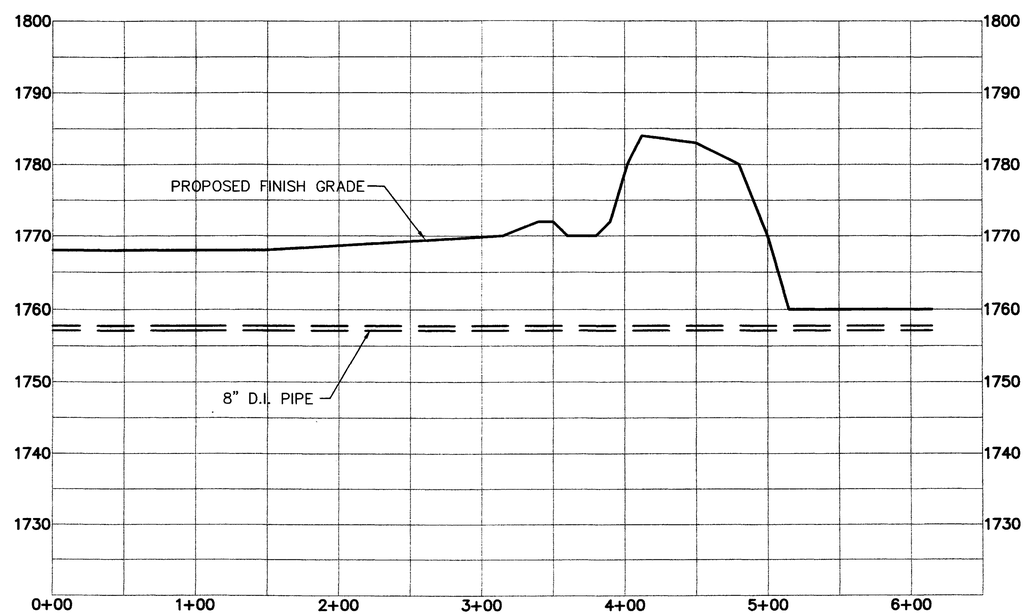
SHEET C-14

R4-35039

PORTIONS OF SEC. 13, 14, 22, 23, 24 AND 27, TWP. 27 N., RGE. 22 E., W.M.



OUTLET PIPELINE PROFILE



WTP RAW WATER PIPELINE PROFILE

GRAPHIC SCALE
25 0 25 50 100
1 INCH = 50 FT.
HORIZONTAL
5 0 5 10 20
1 INCH = 10 FT.
VERTICAL

PRELIMINARY

No.	Revisions	Date	By
1	FOWLER CHANGES	04-14-05	JD

Date 3-9-05
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Checked JD

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LARRY D. KEYES STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER
EXPIRES 7-2-

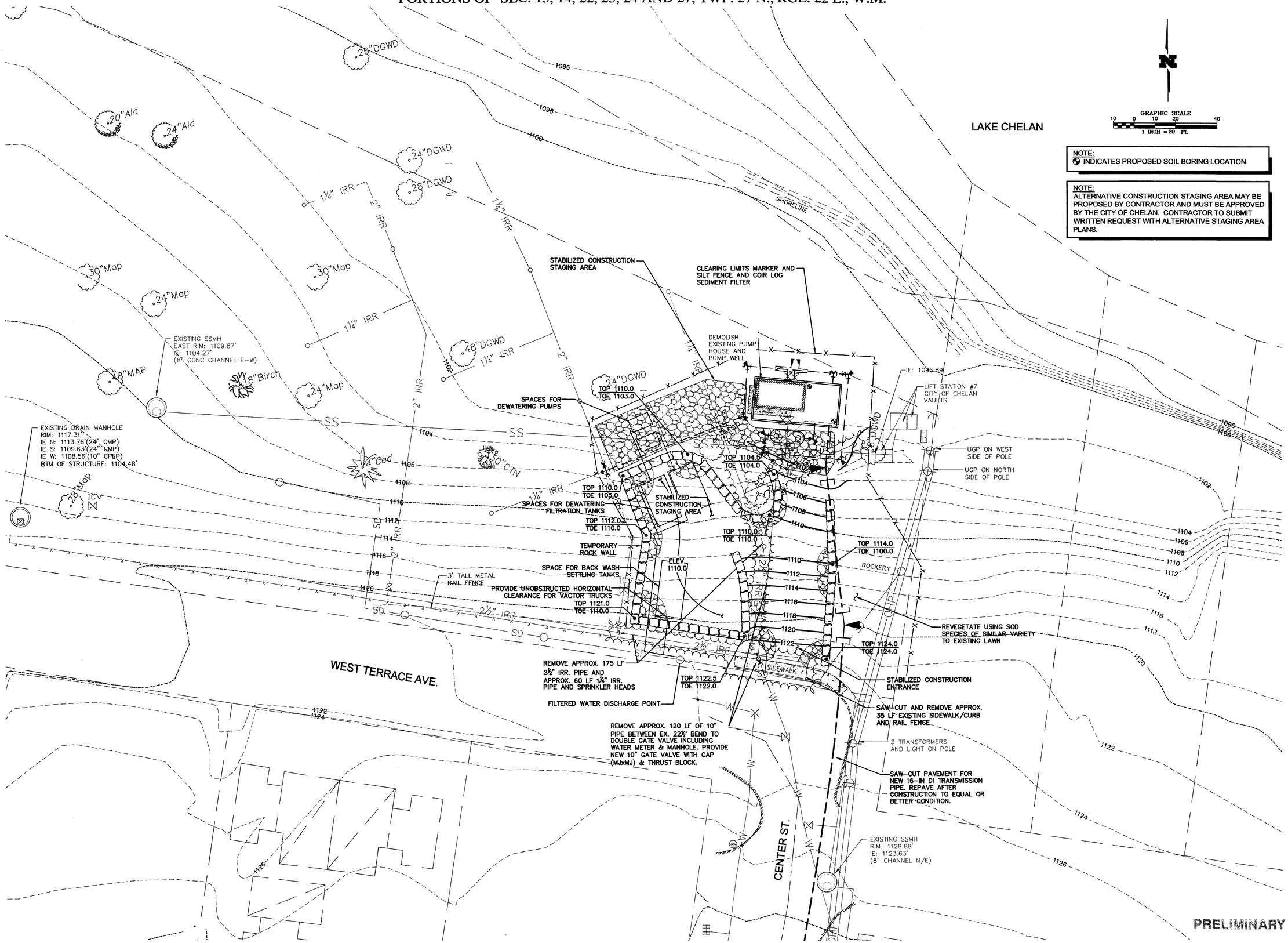
DAYBREAK
WTP RAW WATER &
OUTLET PIPELINE PROFILE

JOB NO. 0417

SHEET C-15

R4-35039

PORTIONS OF SEC. 13, 14, 22, 23, 24 AND 27, TWP. 27 N., RGE. 22 E., W.M.



NOTE:
INDICATES PROPOSED SOIL BORING LOCATION.

NOTE:
ALTERNATIVE CONSTRUCTION STAGING AREA MAY BE PROPOSED BY CONTRACTOR AND MUST BE APPROVED BY THE CITY OF CHELAN. CONTRACTOR TO SUBMIT WRITTEN REQUEST WITH ALTERNATIVE STAGING AREA PLANS.

No.	Revisions	Date	By

Date	3-9-05
Scale	AS SHOWN
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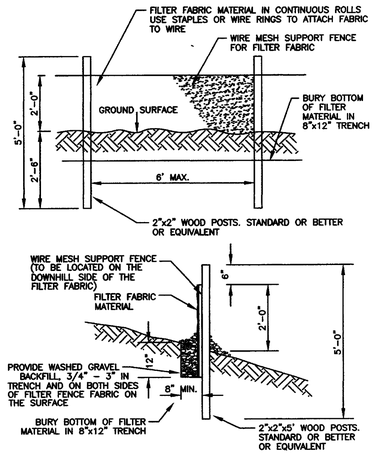
JAMES R. DEXTER STATE OF WASHINGTON 31052 REGISTERED PROFESSIONAL ENGINEER
EXPIRES 7-2-

DAYBREAK IRRIGATION SUPPLY SYSTEM LAKESIDE PUMP STATION SITE DEMOLITION/TESC PLAN

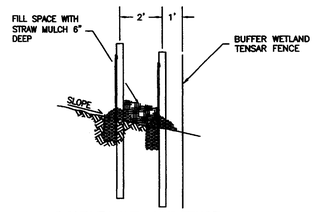
JOB NO. 0417

SHEET C-16

B4-35039



SILT FENCE DETAIL
N.T.S.



DOUBLE LAYER SILT FENCE
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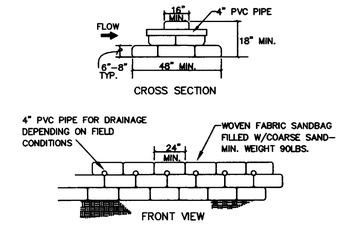
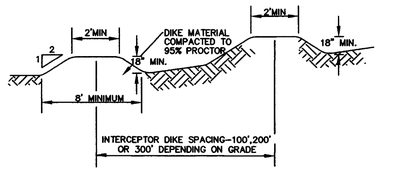


1) WHEN SANDBAG IS FILLED WITH COARSE GRADE SAND MATERIAL, THE OPEN END SHOULD BE STAPLED OR TIED WITH NYLON OR POLY CORD. THE WEIGHT SHALL BE 90 - 125 LBS.

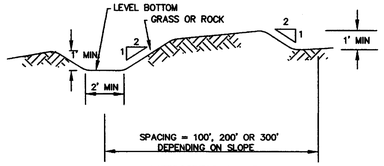
2) SANDBAGS SHOULD BE STACKED IN AT LEAST THREE VERTICAL ROWS ABUTTING EACH OTHER, AND IN STAGGERED ARRANGEMENT. (REFER TO FRONT VIEW).

3) THE BASE OF THE BERM SHOULD BE AT LEAST 3 SANDBAGS DEEP AND CAN BE REDUCED TO 2 AND 1 BAG IN THE SECOND AND THIRD ROWS RESPECTIVELY. (REFER TO CROSS SECTION).

SANDBAG BERM
N.T.S.

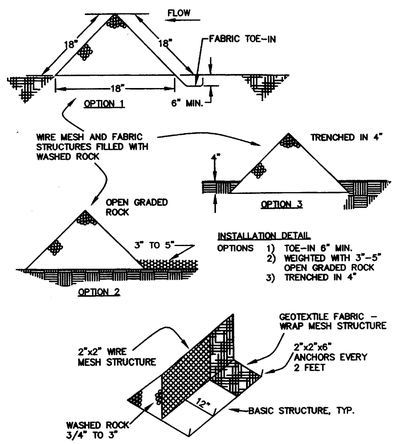


(a) INTERCEPTOR DIKES
N.T.S.



(b) INTERCEPTOR SWALE
N.T.S.

TEMPORARY INTERCEPTOR DIKES AND SWALES
N.T.S.



TRIANGULAR SEDIMENT FILTER DIKES
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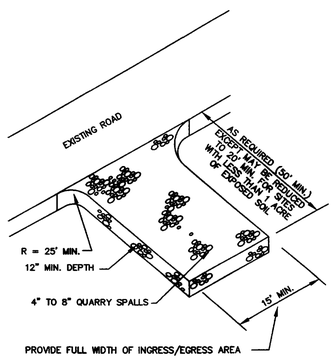
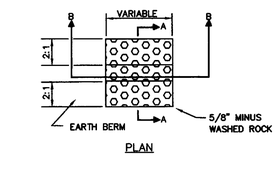
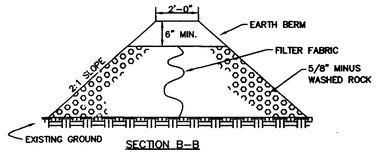


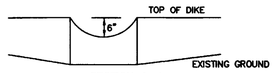
CONSTRUCTION ENTRANCE ROCK PAD
N.T.S.



PLAN

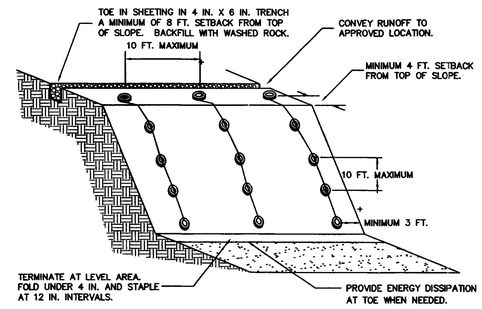


SECTION B-B



SECTION A-A

TEMPORARY GRAVEL FILTER BERM
N.T.S.



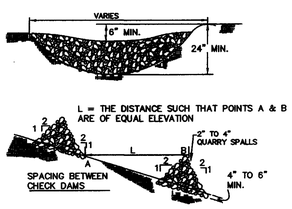
NOTES:

1. TIRES, SANDBAGS, OR EQUIVALENT MAY BE USED TO WEIGHT PLASTIC SHEETING.
2. SEAMS BETWEEN SHEETS MUST OVERLAP A MINIMUM OF 12 IN. AND BE WEIGHTED OR TAPED.
3. PLASTIC SHEETING SHALL HAVE A MINIMUM THICKNESS OF 6 MIL.
4. THIS METHOD SHALL NOT BE USED UPSLOPE OF AREAS THAT MIGHT BE ADVERSELY IMPACTED BY CONCENTRATED RUNOFF.
5. BERM OR SWALE AT TOP OF SLOPE AS DIRECTED BY CITY INSPECTOR.
6. DITCH AT BASE OF SLOPE AS REQUIRED BY CITY CLEARING AND GRADING INSPECTOR. DISCHARGE TO APPROVED LOCATION.

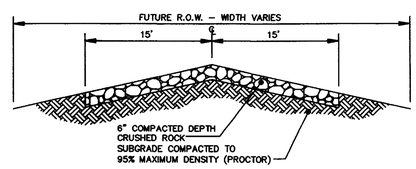
MAINTENACE STANDARDS FOR PLASTIC COVERING

1. TORN SHEETS MUST BE REPLACED AND OPEN SEAMS REPAIRED.
2. REPLACE ANY PLASTIC THAT HAS DETERIORATED.

PLASTIC COVERING
N.T.S.



ROCK CHECK DAMS
N.T.S.



TEMPORARY ROADWAY SECTION
N.T.S.

PRELIMINARY

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No.	Revisions	Date	By

Date 3-9-05
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LARRY R. DEXTER STATE OF WASHINGTON 31652 REGISTERED PROFESSIONAL ENGINEER
EXPIRES 7-2-

DAYBREAK IRRIGATION SUPPLY SYSTEM TESC NOTES & DETAILS

JOB NO. 0417

SHEET C-17

R4-35039

PORTIONS OF SEC. 13, 14, 22, 23, 24 AND 27, TWP. 27 N., RGE. 22 E., W.M.

GENERAL EROSION AND SEDIMENTATION CONTROL NOTES

1. CLEARING LIMITS AND SILT FENCES SHALL BE ESTABLISHED PRIOR TO ANY SITE CONSTRUCTION.
2. A TEMPORARY CONSTRUCTION ENTRANCE SHALL BE ESTABLISHED TO PROVIDE ACCESS TO AND FROM THE SITE. THE STANDARDS AND MAINTENANCE REQUIREMENTS ARE AS FOLLOWS:

   A) INSTALLATION: THE PLANS PROVIDE THE LOCATION AND DIMENSIONS OF THE CONSTRUCTION ENTRANCE. THE AREA OF THE ENTRANCE SHALL BE ON COMPACTED BEARING GROUND, CLEARED OF ALL VEGETATION, ROOTS AND OTHER ORGANIC MATERIAL.

   B) GRAVEL CONSTRUCTION ENTRANCE SHALL BE AS DESCRIBED IN CONSTRUCTION ENTRANCE NOTES AND DRAWINGS.

   C) MAINTENANCE: THE PERFORMANCE STANDARD IS THAT THE CONSTRUCTION ENTRANCE MUST PREVENT TRACKING OF SEDIMENT, MUD OR DIRT OFF OF THE SITE. IT SHALL BE MAINTAINED AS NECESSARY TO MEET THIS STANDARD. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH NEW QUARRY SPALLS, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAY OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
3. PUBLIC STREETS ARE TO BE KEPT CLEAR OF DIRT AND DEBRIS DURING CONSTRUCTION EXCAVATION AND FILL OPERATIONS. MATERIAL SHALL BE REMOVED FROM THE STREETS BY SWEEPING. PAVED SURFACES MUST BE CLEANED AT THE END OF EACH DAY.
4. CONSTRUCTION ACCESS TO THE LAKESIDE PUMP STATION SITE SHALL BE LIMITED TO STABILIZED CONSTRUCTION ENTRY POINT SHOWN ON THE DRAWING UNLESS OTHERWISE APPROVED BY THE CITY OF CHELAN.
5. SEDIMENT CONTROL FACILITIES SHOWN ON THESE PLANS SHALL BE INSTALLED AS PART OF THE PLAN TO REMOVE SEDIMENT FROM THE WATER BEFORE CLEARING AND GRADING IS ALLOWED. THIS MAY INCLUDE SEDIMENT FILTRATION, SILT FENCES, SWALES, CHANNELS, BERMS, BARRIERS AND OTHER MEASURES. SEE THE CONSTRUCTION SEQUENCE FOR ORDER OF INSTALLATION.
6. THE CONSTRUCTION PLANS INDICATE INSTALLATION OF BEST MANAGEMENT PRACTICES (BMPS) TO RETAIN ALL SEDIMENT ON SITE. ADDITIONAL MEASURES MAY BE NEEDED TO REMOVE TURBIDITY AND MEET WATER QUALITY STANDARDS. DURING CONSTRUCTION, THE CITY OF CHELAN MAY REQUIRE ADDITIONAL MEASURES TO PREVENT SEDIMENT OR TURBID WATER FROM LEAVING THE SITE. CONTACT THE DESIGN ENGINEER (OR DESIGNATED EROSION CONTROL PERSON) FOR GUIDANCE ON ADDITIONAL MEASURES.
7. STABILIZE ALL EXPOSED AND NON-WORKED SOIL.
   - FROM MAY 1 TO SEPTEMBER 30 NO UN-WORKED SOIL MAY REMAIN EXPOSED FOR MORE THAN 10 DAYS. AND FROM OCT. 1 TO APRIL 30 FOR MORE THAN 5 DAYS.
   - COVER DENUDED AREAS AS SPECIFIED ON THE PLANS BY APPROPRIATE COVER BMPS (SUCH AS MULCH, SOD, PLASTIC, AND STRAW).
   - COVER MATERIAL SHALL BE STOCKPILED ON SITE.
   - SOIL STOCKPILES SHALL BE STABILIZED AND PROTECTED WITH SEDIMENT RETENTION BMPS WITHIN 24 HOURS.
   - GRADING AND CONSTRUCTION SHALL BE TIMED AND CONSTRUCTED IN STAGES TO MINIMIZE SOIL EXPOSURE. CONSTRUCTION SHALL BE TIMED TO RECOGNIZE CONDITIONS CREATED BY THE WEATHER.
   - DUST CONTROL SHALL SHALL BE PROVIDED ON ROADS AND NONWORKED AREAS AS SOIL CONDITIONS DICTATE.
8. LAKESIDE PARK GROUND COVER AND IRRIGATION SYSTEM FEATURES SHALL BE RESTORED TO ORIGINAL CONDITIONS OR TO NEW CONDITIONS AS NOTED ON THE DRAWINGS.
9. PROTECT CUT AND FILL SLOPES FROM EROSIVE FLOWS AND CONCENTRATED FLOWS UNTIL PERMANENT COVER AND DRAINAGE CONVEYANCE SYSTEMS ARE IN PLACE.
10. CHANNELS, DITCHES, SWALES AND OTHER CONVEYANCE SYSTEMS SHALL BE STABILIZED TO PREVENT EROSION DURING AND AFTER CONSTRUCTION.
11. THE CONTRACTOR AND DEVELOPER SHALL DEVELOP ON GOING PLANS TO CONTROL POLLUTANTS GENERATED DURING CONSTRUCTION, INCLUDING WASTE MATERIALS AND DEMOLITION DEBRIS. THIS INCLUDES MAINTENANCE OF CONSTRUCTION EQUIPMENT, FERTILIZERS, APPLICATION OF CHEMICALS, AND WATER TREATMENT SYSTEMS. THE PLANS SHALL BE UPDATED TO RESPOND TO SITE EXPOSURE AND WEATHER CONDITIONS.
12. THE WATER FROM DE-WATERING SYSTEMS SHALL BE DISCHARGED INTO A SEDIMENT FILTRATION SYSTEM OR SEDIMENT-RETENTION BMP. ADDITIONAL MEASURES MAY BE NEEDED TO REMOVE TURBIDITY AND MEET WATER QUALITY STANDARDS.
13. THE CONSTRUCTION EROSION CONTROL BMPS SHALL BE INSPECTED AFTER EACH SIGNIFICANT RAIN EVENT. MAINTENANCE SHALL BE PERFORMED AS NEEDED TO MAINTAIN THE PERFORMANCE AND FUNCTION.
   - SILT BARRIERS AND SEDIMENT TANKS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
   - NECESSARY REPAIRS TO BARRIERS, CHANNELS, AND PONDS OR REPLACEMENT SHALL BE ACCOMPLISHED PROMPTLY.
   - SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL FROM SILT BARRIERS AND CHECK DAMS.
   - WHEN THE SEDIMENT REACHES THE CLEAN OUT LEVEL IN A SEDIMENT POND, IT SHALL BE REMOVED AND PROPERLY DISPOSED.
   - DEPOSITS MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER, CHECK DAM OR OTHER CATCHMENT.
   - THE EMERGENCY SPILLWAY OF A SEDIMENT POND SHOULD BE CHECKED REGULARLY TO INSURE THAT ITS LINING IS WELL ESTABLISHED AND EROSION-RESISTANT.
   - ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.
14. SEEDING SPECIFICATIONS FOR IRRIGATION PIPELINE EASEMENT
   - AREAS THAT ALREADY HAVE GOOD TOPSOIL SUCH AS UNDISTURBED AREAS, DO NOT REQUIRE SOIL AMENDMENTS
   - AREAS THAT WILL BE SEEDED ONLY AND NOT LANDSCAPED MAY NEED COMPOST OR MEAL-BASED MULCH INCLUDED IN THE HYDROSEED IN ORDER TO ESTABLISH VEGETATION. NATIVE TOPSOIL SHOULD BE RE-INSTALLED ON THE DISTURBED SOIL SURFACE BEFORE APPLICATION.
   - SEED THAT IS INSTALLED AS A TEMPORARY MEASURE MAY BE INSTALLED BY HAND IF IT WILL BE COVERED BY STRAW, MULCH, OR TOPSOIL. SEED THAT IS INSTALLED AS A PERMANENT MEASURE MAY BE INSTALLED BY HAND ON SMALL AREAS (USUALLY LESS THAN ONE ACRE) THAT WILL BE COVERED WITH MULCH, TOPSOIL, OR EROSION BLANKETS. THE SEED MIXES LISTED BELOW INCLUDE RECOMMENDED MIXES FOR BOTH TEMPORARY AND PERMANENT SEEDING. ALTERNATIVE SEED MIXES APPROVED BY THE LOCAL AUTHORITY MAY BE USED AUTHORITY MAY BE USED.

TEMPORARY SEED MIX			
TYPE	%	% PURITY	% GERMINATION
BLUE FLAX, APAR LEWIS	50	95	95
HARD FLAX, DURAR	50	95	95

- SEED THE GRASS MIX AT RATE OF 40LBS PER ACRE.
  RECOMMENDED SEED VENDER:
  RAINIER SEED CO., DAVENPORT, WA

SILT FENCE NOTES

1. FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL AND CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND SECURELY FASTENED AT BOTH ENDS TO POSTS.
2. POSTS SHALL BE SPACED A MAXIMUM OF 6 FEET APART AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 30 INCHES).
3. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 8 INCHES WIDE AND 12 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER. THIS TRENCH SHALL BE BACKFILLED WITH WASHED GRAVEL.
4. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BEFASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 4 INCHES AND SHALL NOT EXTEND MORE THAN 24 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
5. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 20 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 24 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
6. WHEN EXTRA-STRENGTH FILTER FABRIC AND CLOSER POST SPACING IS USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF ABOVE NOTES APPLYING.
7. FILTER FABRIC FENCES SHALL NOT BE REMOVED BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
8. FILTER FABRIC FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
9. SILT FENCES WILL BE INSTALLED PARALLEL TO ANY SLOPE CONTOURS.
10. CONTRIBUTING SLOPE LENGTH TO FENCE WILL NOT BE GREATER THAN 100 FEET.
11. DO NOT INSTALL BELOW AN OUTLET PIPE OR WEIR.
12. INSTALL DOWNSLOPE OF EXPOSED AREAS.
13. DO NOT DRIVE OVER OR FILL OVER SILT FENCES.

SANDBAG BERM NOTES

1. THE HEIGHT OF THE BERM SHALL BE A MINIMUM OF 18 INCHES MEASURED FROM THE TOP OF THE EXISTING GROUND AT THE UPSLOPE TOE TO THE BOTTOM OF THE BERM.
2. THE WIDTH OF THE BERM SHALL BE AT LEAST 48 INCHES AT THE BOTTOM AND 18 INCHES AT THE TOP.
3. SANDBAGS SHALL BE 24 TO 30 INCHES IN LENGTH, 16 TO 18 INCHES IN WIDTH, AND 6 TO 8 INCHES IN THICKNESS. EACH SANDBAG SHALL WEIGH BETWEEN 90 TO 125 POUNDS.
4. SUITABLE MATERIALS FOR SANDBAGS ARE POLYPROPYLENE, POLYETHYLENE, OR POLYAMIDE WOVEN FABRIC, MINIMUM UNIT WEIGHT 4 OUNCES PER SQUARE YARD, MULLIN BURST STRENGTH EXCEEDING 300 PSI, AND ULTRAVIOLET STABILITY EXCEEDING 70 PERCENT.
5. COARSE GRADE SAND SHALL BE USED.

SEDIMENT FILTER DIKE NOTES

1. IF THE SLOPE EXCEEDS 10 PERCENT, THE LENGTH OF THE SLOPE ABOVE THE DIKE SHALL BE LESS THAN 50 FEET.
2. ALL DIKES SHALL BE PLACED ON THE CONTOUR AND SHALL BE PLACED IN A ROW WITH THE ENDS TIGHTLY ABUTTING THE ADJACENT DIKE. FILTER MATERIAL SHALL LAP OVER ENDS 6 INCHES TO COVER DIKE TO DIKE JUNCTION; EACH JUNCTION SHALL BE SECURED BY SHORT RINGS.
3. IN GENERAL, EACH SIDE OF THE TRIANGLE SHALL BE A MINIMUM OF 18 INCHES.
4. NON WOVEN POLYPROPYLENE, POLYETHYLENE OR POLYAMIDE GEOTEXTILE FABRIC MAY BE USED AS FILTER MATERIAL. THIS MATERIAL SHALL HAVE A MINIMUM UNIT WEIGHT OF FOUR AND ONE-HALF (4.5) OUNCES PER SQUARE YARD, MULLIN BURST STRENGTH EXCEEDING 250 PSI, ULTRAVIOLET STABILITY EXCEEDING 70 PERCENT, AND EQUIVALENT OPENING SIZE EXCEEDING 40. THE FABRIC COVER AND SKIRT SHALL BE A CONTINUOUS WRAPPING OF THE FABRIC; THE SKIRT SHALL BE A CONTINUOUS EXTENSION OF THE UPSTREAM FACE.

TEMPORARY DIKES AND SWALES NOTES

1. SEED AND MULCH SHALL BE APPLIED WITHIN 5 DAYS OF DIKE CONSTRUCTION.
2. THE UPSLOPE SIDE OF THE DIKE SHALL PROVIDE POSITIVE DRAINAGE TO THE DIKE OUTLET.
3. NO EROSION SHALL OCCUR AT THE DIKE OUTLET. PROVIDE ENERGY DISSIPATION MEASURES AS NECESSARY.
4. SEDIMENT LADEN RUNOFF MUST BE RELEASED THROUGH A SEDIMENT TRAPPING FACILITY SUCH AS A POND, TRAP, OR SILT FENCE AS APPROPRIATE TO DRAINAGE AREA SIZE.

TEMPORARY GRAVEL OUTLET NOTES

1. GRAVEL SHALL BE 5/8 INCH MINUS WASHED ROCK. A LAYER OF FILTER FABRIC SHALL BE EMBEDDED IN THE GRAVEL.
2. MINIMUM LENGTH IN FEET OF THE GRAVEL OUTLET STRUCTURE SHALL BE EQUAL TO SIX (6) TIMES THE NUMBER OF ACRES OF CONTRIBUTING DRAINAGE AREA.
3. THE INVERT OF THE GRAVEL OUTLET SHALL NOT BE LESS THAN 6 INCHES LOWER THAN THE MINIMUM ELEVATION OF THE TOP OF THE DIKE.
4. THE INVERT OF THE GRAVEL OUTLET SHALL NOT BE LESS THAN 6 INCHES LOWER THAN THE MINIMUM ELEVATION OF THE TOP OF THE DIKE. OR INTO A STABLE WATERCOURSE.
5. THE GRAVEL OUTLET STRUCTURE SHALL BE INSPECTED BY THE CONTRACTOR OR DESIGNEE AND REPAIRED AFTER EACH RUNOFF-PRODUCING RAIN. THE GRAVEL MUST BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED DUE TO SEDIMENT ACCUMULATION IN THE GRAVEL.

CHECK DAM NOTES

1. THE MAXIMUM SPACING BETWEEN THE DAMS SHALL BE SUCH THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM.
2. ROCK CHECK DAMS SHALL BE CONSTRUCTED OF 2- TO 4- INCH DIAMETER QUARRY SPALLS. THE QUARRY SPALLS MUST BE PLACED BY HAND OR MECHANICAL PLACEMENT (NO DUMPING OF SPALLS TO FORM DAM) TO ACHIEVE COMPLETE COVERAGE OF THE DITCH OR SWALE AND TO INSURE THAT THE CENTER OF THE DAM IS LOWER THAN THE EDGES.
3. IN THE CASE OF GRASS-LINED DITCHES AND SWALES, CHECK DAMS, SHALL BE REMOVED WHEN THE GRASS HAS MATURED SUFFICIENTLY TO PROTECT THE DITCH OR SWALE. THE AREA BENEATH THE CHECK DAMS SHALL BE SEEDED AND MULCHED IMMEDIATELY AFTER DAM REMOVAL.
4. CHECK DAMS SHALL BE CHECKED FOR SEDIMENT ACCUMULATION AFTER EACH SIGNIFICANT RAINFALL. SEDIMENT SHALL BE REMOVED WHEN IT REACHES ONE ORIGINAL DAM HEIGHT OR BEFORE.

CONSTRUCTION SEQUENCE

1. THE APPROVED CONSTRUCTION SEQUENCE SHALL BE AS FOLLOWS:

   A. PRIOR TO ANY CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL SCHEDULE AND ATTEND A PRE-CONSTRUCTION CONFERENCE WITH THE CITY OF CHELAN.

   B. CONTRACTOR TO CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES AND PARKING AREAS.

   C. FLAG CLEARING LIMITS AND INSTALL FILTER FABRIC FENCE AND STRAW BARRIERS ALONG PERIMETER OF AREA TO BE DISTURBED AS SHOWN.

   D. CONTRACTOR TO PROVIDE NOTICE TO THE CITY FOR INSPECTION OF THE NO-GRADING-PERIMETER-AREA MARKINGS PRIOR TO CLEARING.

   E. DEMOLISH EXISTING PUMP STATION SITE AND CONSTRUCT NEW PUMP STATION AND EXTERIOR SITE PIPING.

   F. CONSTRUCT IRRIGATION TRANSMISSION PIPELINE. NOTE THAT CITY OF CHELAN PUBLIC WORKS STANDARDS PROHIBIT PROCEEDING MORE THEN 200 FEET OF TRENCHING IN ADVANCE OF PIPE LAYING WITHOUT WRITTEN APPROVAL OF THE CITY.

   G. CONSTRUCT IRRIGATION RESERVOIR LINER AND INLET/OUTLET SYSTEMS.

   H. MAINTAIN CONSTRUCTION EROSION CONTROL BMP'S UNTIL SUCH TIME AS REVEGETATION/LANDSCAPING HAS BECOME ESTABLISHED.

   I. LAKESIDE PARK LANDSCAPING RESTORATION.

GRAVEL FILTER BERM NOTES

1. BERM MATERIAL SHALL BE 3/4 TO 3-INCH WELL-GRADED GRAVEL OR CRUSHED ROCK WITH LESS THAN 5% FINES.
2. SPACING OF BERMS:

DISTANCE BETWEEN BERMS (FEET)	MAX SLOPE (%)
300	5
200	10
100	>10

3. MINIMUM BERM DIMENSIONS: 1-FOOT HIGH WITH 3:1 SIDE SLOPES; 8 LINEAL FEET PER 1 CFS RUNOFF.

CONSTRUCTION ENTRANCE NOTES

1. MATERIAL SHALL BE 4 INCH TO 8 INCH QUARRY SPALLS AND MAY BE TOP-DRESSED WITH 1 INCH TO 3 INCH ROCK. (STATE STANDARD SPECIFICATIONS, SECTION 8-15).
2. THE ROCK PAD SHALL BE AT LEAST 12 INCHES THICK AND 50 FEET LONG (20 FEET FOR SITES WITH LESS THAN 1 ACRE OF DISTURBED SOIL). WIDTH SHALL BE THE FULL WIDTH OF THE VEHICLE INGRESS AND EGRESS AREA.
3. ADDITIONAL ROCK SHALL BE ADDED PERIODICALLY TO MAINTAIN PROPER FUNCTION OF THE PAD.
4. IF THE PAD DOES NOT ADEQUATELY REMOVE THE MUD FROM THE VEHICLE WHEELS, THE WHEELS SHALL BE HOSED OFF BEFORE THE VEHICLE ENTERS A PAVED STREET. THE WASHING SHALL BE DONE ON AN AREA COVERED WITH CRUSHED ROCK AND WASH WATER SHALL DRAIN TO A SEDIMENT RETENTION FACILITY OR THROUGH A SILT FENCE.

PLASTIC SHEETING NOTES

1. PLASTIC SHEETING SHALL HAVE A MINIMUM THICKNESS OF 6 MILS AND SHALL MEET THE REQUIREMENTS OF THE STATE STANDARD SPECIFICATIONS SECTION 9-14.5.
2. COVERING SHALL BE INSTALLED AND MAINTAINED TIGHTLY IN PLACE BY USING SANDBAGS OR TIRES ON ROPES WITH A MAXIMUM 10-FOOT GRID SPACING IN ALL DIRECTIONS. ALL SEAMS SHALL BE TAPED OR WEIGHTED DOWN FULL LENGTH AND THERE SHALL BE AT LEAST A 12 INCH OVERLAP OF ALL SEAMS.
3. CLEAR PLASTIC COVERING SHALL BE INSTALLED IMMEDIATELY ON AREAS SEEDED BETWEEN NOVEMBER 1 AND MARCH 31 AND REMAIN UNTIL VEGETATION IS FIRMLY ESTABLISHED.
4. WHEN THE COVERING IS USED ON UN-SEEDED SLOPES, IT SHALL BE KEPT IN PLACE UNTIL THE NEXT SEEDING PERIOD.
5. PLASTIC COVERING SHEETS SHALL BE BURIED TWO FEET AT THE TOP OF SLOPES IN ORDER TO PREVENT SURFACE WATER FLOW BENEATH SHEETS.
6. PROPER MAINTENANCE INCLUDES REGULAR CHECKS FOR RIPS AND DISLODGED ENDS.

MULCHING NOTES

1. MULCH MATERIALS USED SHALL BE HAY OR STRAW, AND SHALL BE APPLIED AT THE RATE OF 75 TO 100LBS PER 1000 SQ FT. @ 2" THICK.
2. MULCHES SHALL BE APPLIED IN ALL AREAS WITH EXPOSED SLOPES GREATER THAN 2:1.
3. MULCHING SHALL BE USED IMMEDIATELY AFTER SEEDING OR IN AREAS WHICH CANNOT BE SEEDED BECAUSE OF THE SEASON.
4. ALL AREAS NEEDING MULCH SHALL BE COVERED BY NOVEMBER 1.

SEEDING NOTES

1. SEED MIXTURE SHALL BE PER NOTE #14 OF GENERAL ESC NOTES.
2. SEED BEDS PLANTED BETWEEN MAY 1 AND OCTOBER 31 WILL REQUIRE IRRIGATION AND OTHER MAINTENANCE AS NECESSARY TO FOSTER AND PROTECT THE ROOT SURFACE.
3. FOR SEED BEDS PLANTED BETWEEN OCTOBER 31 AND APRIL 30, ARMORING OF SEED BED WILL BE NECESSARY. (E.G., GEOTEXTILES, JUTE MAT, CLEAR PLASTIC COVERING).
4. BEFORE SEEDING, INSTALL NEEDED SURFACE RUNOFF CONTROL MEASURES SUCH AS GRADIENT TERRACES, INTERCEPTOR DIKES, SWALES, LEVEL SPREADERS AND SEDIMENT BASINS.
5. THE SEEDBED SHALL BE FIRM WITH A FAIRLY FINE SURFACE, FOLLOWING SURFACE ROUGHENING. PERFORM ALL OPERATIONS ACROSS OR AT RIGHT ANGLES TO THE SLOPE.
6. FERTILIZERS ARE TO BE USED ACCORDING TO SUPPLIERS RECOMMENDATIONS. AMOUNTS USED SHOULD BE MINIMIZED, ESPECIALLY ADJACENT TO WATER BODIES AND WETLANDS.

DETAILS REFERENCE:

1. EROSION CONTROL DETAILS SHOWN ON SHEETS 31, 32, AND 33, DAYBREAK FILLING AND GRADING PERMIT ARE HEREBY INCORPORATED BE REFERENCE AND MADE PART OF THESE DRAWINGS.
2. DISCREPANCIES BETWEEN THE REFERENCE DRAWINGS AND SITE CONDITIONS FOR THE IRRIGATION SUPPLY SYSTEM PROJECT SHALL IMMEDIATELY BE BROUGHT TO THE ENGINEER'S ATTENTION.

PRELIMINARY

CALL 48 HOURS
BEFORE YOU DIG
1-800-424-5555

No.	Revisions	Date	By

Date	3-9-05
Scale	AS SHOWN
Drawn	NEB
Designed	JRD
Checked	EG

American Engineering Corporation
Engineers • Planners • Surveyors
4032 148th Ave. N.E.
Redmond, WA 98052
PHONE (425) 881-7430 Fax (425) 881-7731

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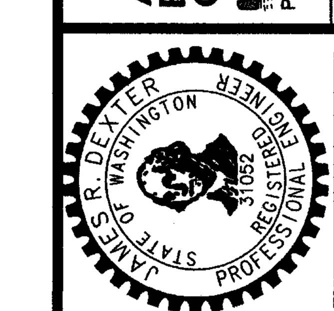

DAYBREAK
IRRIGATION SUPPLY SYSTEM
TESC NOTES & DETAILS

JOB NO. 0417

SHEET C-18

R4-35039