DEADMAN'S BASIN
TERMINAL OUTLET REPLACEMENT PROJECT
WHEATLAND COUNTY, MONTANA
ADDENDUM #3
May 6, 2009

A. GENERAL

1. This addendum shall be considered a part of the contract documents and shall take precedence over all requirements for the Work shown on the Drawings and/or Specifications.

2. Work not specifically changed or modified by this addendum shall be as shown on the Drawings and/or specifications or as modified by previous addendum.

3. **Bidders are required to acknowledge receipt of addendum by number inserted in spaces provided on the Bid Form. Failure to do so may result in disqualification of the bid.**

B. PROJECT MANUAL

1. **Invitation to Bid, page 00100 – 1:**

   The bid opening date has been changed to Monday, May 18, 2009 at 3:00 PM. This supersedes the date change made in Addendum #2. Revise the first paragraph of this section to read as follows:

   > Separate sealed bids for construction of the Deadman's Basin Terminal Outlet Replacement Project will be received by the Montana Department of Natural Resources and Conservation (DNRC) at the Ted Doney ~~Fred Buck~~ Conference Room of the Montana Department of Natural Resources and Conservation, 1424 9th Avenue, Helena, Montana, 59620-1601, Attention: Sanna Yost, PE until **3:00 p.m.** local time on **May 18, 2009**, and then publicly opened and read aloud. Bids will not be accepted from prime BIDDERS who did not attend the mandatory Pre-Bid Conference. All interested parties are invited to attend the bid opening.

2. **Bid Schedule, page 00300 – 4:** The quantities for bid items #111, #121, #124 and #125 have been revised because of changing the excavation cut slope behind the existing terminal outlet basin to 1.5H:1V (from 1H:1V). **Use the attached replacement sheet for bid submittal.**

3. **Section 02724 2.01 A.1.:** Revise subsection A.1. to read as follows:

   A. 6-inch PVC Pipe and Fittings

      1. PVC drainpipe shall be solid wall Schedule 80 or equivalent PVC pipe conforming to ASTM *D1785*. ~~D3034 with belled-end gasketed joints~~.

4. **Section 02724 3.04 C.:** Add the following item to this subsection:

    9. A minimum of 2 feet of fill shall be placed above the box culvert before equipment can be used directly over the box culvert.

5. **Section 03300 3.03 H.** This subsection limits mixing time to 90 minutes. Add the following paragraph to Section 03300 3.03 H:

    A set retardant may be used as outlined in Section 2.02 B. Up to 120 minutes may be allowed for the discharge of concrete with a set retardant admixture if the batch plant can demonstrate, prior to the start of the project, that their mix design, discharged 120 minutes after the addition of water, will meet all of the requirements for Class 5000 concrete.

C. PROJECT DRAWINGS

1. **Sheet P-2:** Delete this sheet and replace with the attached revised sheet P-2. Changes made to the sheet include revising the excavation cut slope behind the existing outlet basin to 1.5H:1V (from 1H:1V) and associated notes.

2. **Sheet P-7:** Delete this sheet and replace with the attached revised sheet P-7. Changes made to the sheet include revised survey coordinates associated with changing the excavation cut slope behind the existing outlet basin to 1.5H:1V (from 1H:1V) and associated notes.

3. **Sheet XS-1:** Delete this sheet and replace with the attached revised sheet XS-1. Changes made to the sheet include revising the excavation cut slope behind the existing outlet basin to 1.5H:1V (from 1H:1V) and associated notes.

D. BIDDER QUESTIONS AND ANSWERS

Q1: **Section 03300 1.04 D.** What is Batch Plant Certification?
Answer: The batch plant must conform to ASTM C94.

Q2: **Section 03300 1.04 E**. What certification tests for water/aggregates are we asking for?
Answer: The aggregates must meet the requirements of section 2.01 C and the water must meet the requirements of section 2.01 D.

Q3: **Section 03300 2.01 B.** Regarding fly ash, the specs says to use it in all concrete and from same source but the guidance provided for Class 5000 does not say anything about fly ash.
Answer: Fly Ash may be used in the batch plant's mix design to replace a portion of the cementitious materials. The maximum amount of Fly Ash to be used is 25% of the total cementitious materials by weight.

Q4: **Section 03300 2.04 Table 03300-1**
For Class 5000, need to list the values for entrained air content (d) and for cement content (c) as they are not filled in the table.
Answer: The entrained air for Class 5000 concrete shall be 6±1%. The cement content shall be a minimum of 6.5 sacks of cement per cubic yard of concrete.

Q5: What material is to be used when backfilling excavations in the dam embankment?
Answer: Soils used to backfill excavations within the dam embankment above the elevation of the toe berm (Elev. 3915), must be soils salvaged during general excavation within the dam embankment and/or be structurally acceptable (in writing by the Owner/Engineer) as embankment backfill. Soils excavated from the dam embankment are to be handled separately and replaced as compacted fill in the dam embankment.

LIST OF ATTACHMENTS TO ADDENDUM #3 OF THE DEADMAN'S BASIN TERMINAL OUTLET REPLACEMENT PROJECT

1. Revised Sheet 00300-4 Bid Schedule
2. Revised Drawing Sheet P-2
3. Revised Drawing Sheet P-7
4. Revised Drawing Sheet XS-1

DEADMAN'S BASIN TERMINAL OUTLET REPLACEMENT PROJECT

BID SCHEDULE

Item No.	Item	Quantity	Unit Cost	Extended Total Cost
101	Mobilization & Preparatory Work	1 LS	N/A	
102	Dewatering	1 LS	N/A	
103	Stripping and Reclamation	1 LS	N/A	
104	Demolition	1 LS	N/A	
111	General Excavation	12,800 CY		
112	Toe Drain Excavation	778 CY		
121	Compacted Fill	30,000 CY		
124	Filter Sand	3,600 CY		
125	Drain Gravel	1,650 CY		
126	Road Gravel	340 CY		
131	6-inch PVC Drainpipe	580 LF		
136	Monitor Well Extension or Abandonment and Replacement	1 LS	N/A	
141	Outlet Conduit - 8' x 8' Box Culvert	102 LF		
142	Conduit Transition & Concrete Collar	1 LS	N/A	
152	Outlet Structure	1 LS	N/A	
152	Channel Armoring	1 LS	N/A	

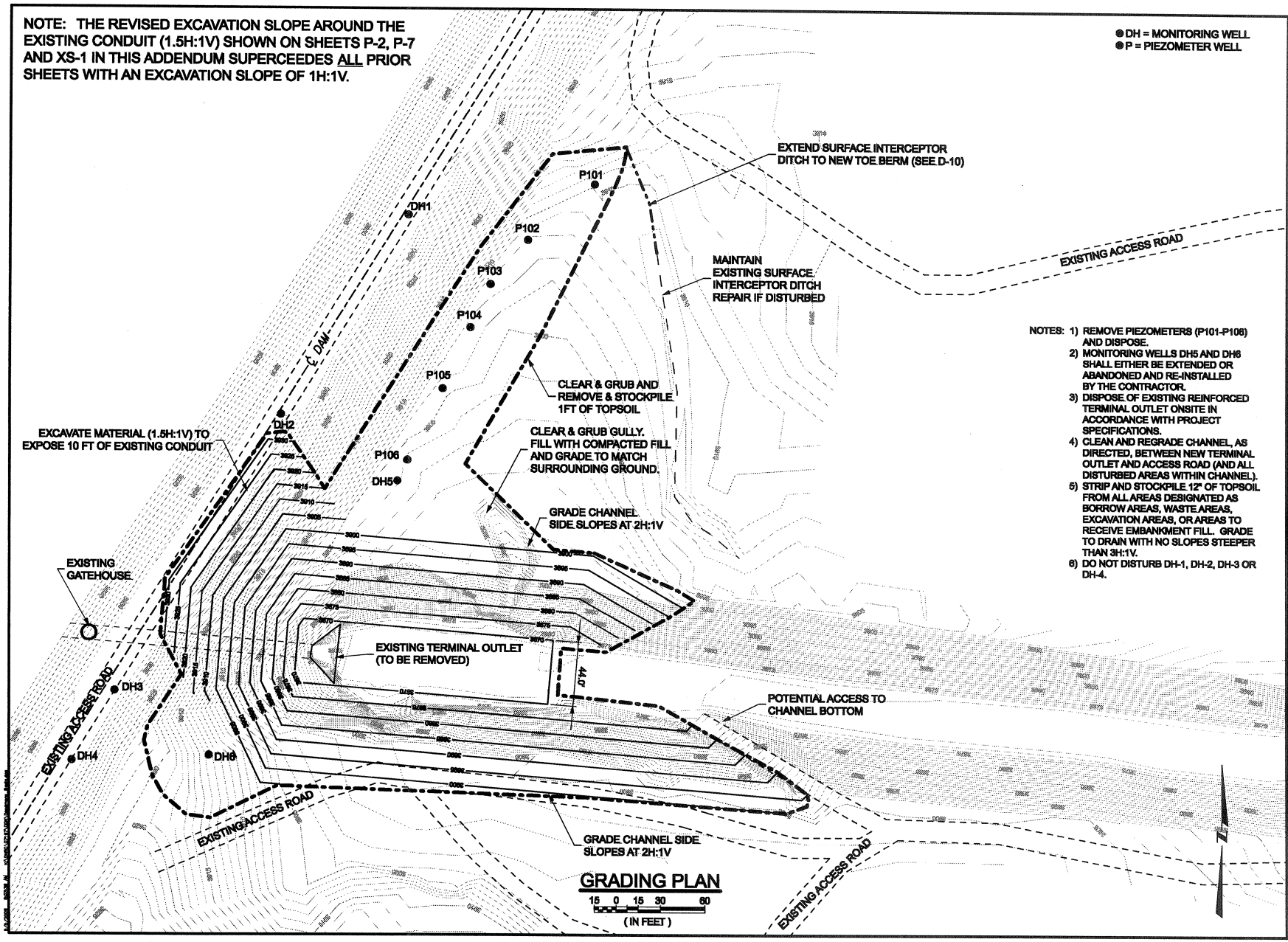
TOTAL BID PRICE _____

Figures

_____

Words

NOTE: THE REVISED EXCAVATION SLOPE AROUND THE EXISTING CONDUIT (1.5H:1V) SHOWN ON SHEETS P-2, P-7 AND XS-1 IN THIS ADDENDUM SUPERCEEDES ALL PRIOR SHEETS WITH AN EXCAVATION SLOPE OF 1H:1V.



NOTES:
1) REMOVE PIEZOMETERS (P101-P106) AND DISPOSE.
2) MONITORING WELLS DH5 AND DH6 SHALL EITHER BE EXTENDED OR ABANDONED AND RE-INSTALLED BY THE CONTRACTOR.
3) DISPOSE OF EXISTING REINFORCED TERMINAL OUTLET ONSITE IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
4) CLEAN AND REGRADE CHANNEL, AS DIRECTED, BETWEEN NEW TERMINAL OUTLET AND ACCESS ROAD (AND ALL DISTURBED AREAS WITHIN CHANNEL).
5) STRIP AND STOCKPILE 12" OF TOPSOIL FROM ALL AREAS DESIGNATED AS BORROW AREAS, WASTE AREAS, EXCAVATION AREAS, OR AREAS TO RECEIVE EMBANKMENT FILL. GRADE TO DRAIN WITH NO SLOPES STEEPER THAN 3H:1V.
6) DO NOT DISTURB DH-1, DH-2, DH-3 OR DH-4.

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DRAWN		
DATE	BY	
2/21/08	KAS	
REVISED		
2/28/08	BH	
3/3/08	KAS	
APPROVED		
12/3/08	BH	
12/3/08	BH	
3/3/09	BH	

DEADMAN'S BASIN TERMINAL OUTLET REPLACEMENT

Excavation Plan

SHEET
P-2

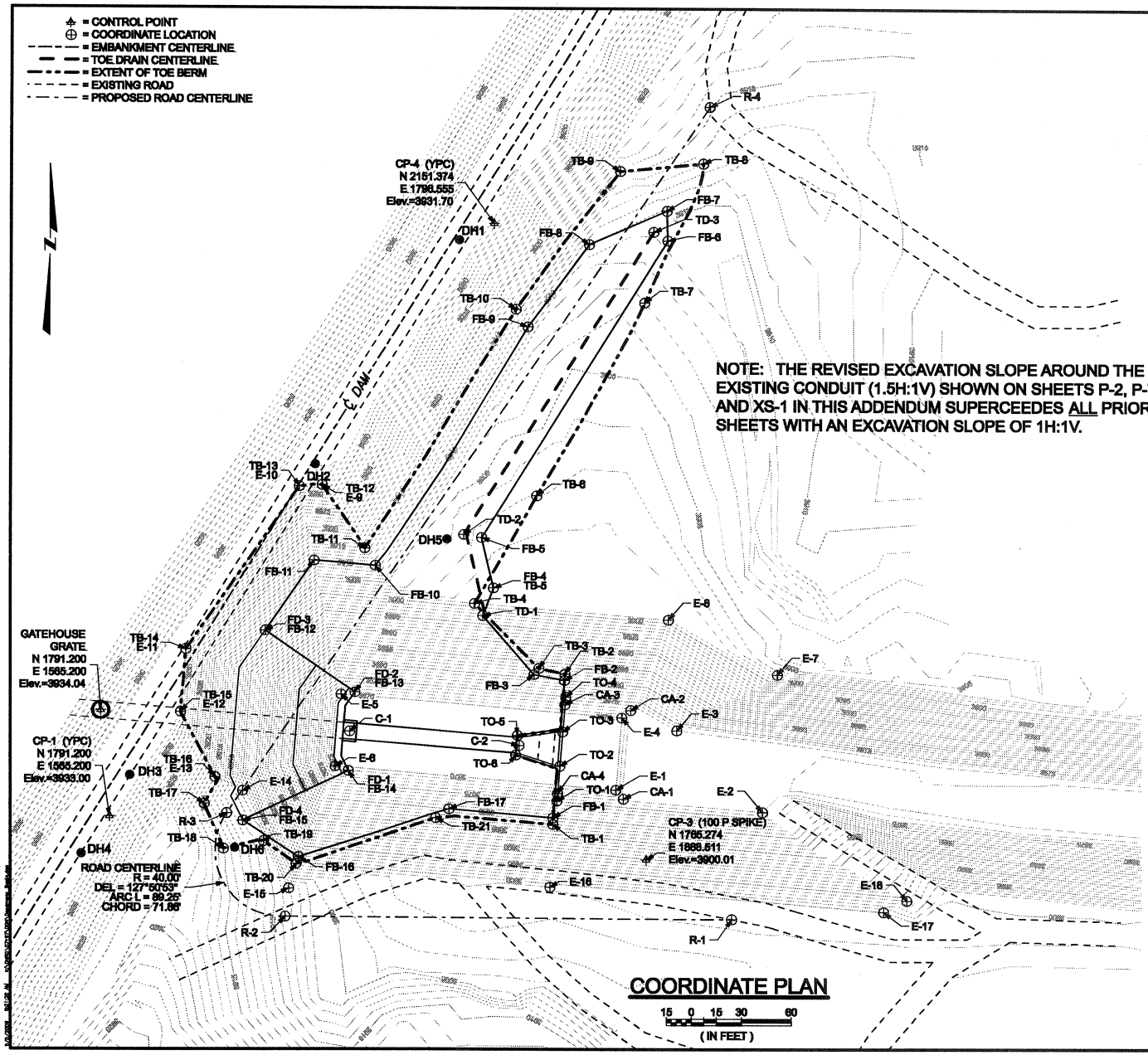

TABLE OF COORDINATES

POINT #	DESCRIPTION	EASTING	NORTHING	ELEVATION
C-1	CONDUIT EXTENSION	1710.212	1842.901	3872.0
C-2	CONDUIT EXTENSION	1911.857	1894.398	3872.0
CA-1	CHANNEL ARMORING	1874.871	1902.044	3876.0
CA-2	CHANNEL ARMORING	1879.364	1896.897	3876.0
CA-3	CHANNEL ARMORING	1889.884	1889.199	3876.0
CA-4	CHANNEL ARMORING	1885.011	1888.885	3876.0
E-1	EXCAVATION	1870.324	1807.442	3870.0
E-2	EXCAVATION	1898.885	1794.049	3873.0
E-3	EXCAVATION	1907.082	1849.886	3873.0
E-4	EXCAVATION	1878.873	1881.291	3870.0
E-5	EXCAVATION	1706.094	1886.409	3870.0
E-6	EXCAVATION	1701.439	1821.898	3870.0
E-7	EXCAVATION	1887.841	1877.827	3903.0
E-8	EXCAVATION	1902.082	1911.108	3901.0
E-9	EXCAVATION	1893.642	1992.802	3933.0
E-10	EXCAVATION	1879.779	1991.884	3932.0
E-11	EXCAVATION	1911.086	189.020	3932.0
E-12	EXCAVATION	1907.880	1884.898	3932.0
E-13	EXCAVATION	1828.610	1816.008	3910.0
E-14	EXCAVATION	1845.392	1808.770	3909.0
E-15	EXCAVATION	1873.340	1747.880	3909.0
E-16	EXCAVATION	1880.388	1748.884	3901.0
E-17	EXCAVATION	2091.798	1738.738	3900.0
E-18	EXCAVATION	2048.888	1740.884	3899.0
FB-1	FILTER BLANKET	1892.280	1790.884	3880.0
FB-2	FILTER BLANKET	1899.244	1874.283	3880.0
FB-3	FILTER BLANKET	1820.843	1877.802	3881.0
FB-4	FILTER BLANKET	1798.824	1830.469	3901.5
FB-5	FILTER BLANKET	1799.389	1881.208	3904.6
FB-6	FILTER BLANKET	1901.373	2141.142	3909.5
FB-7	FILTER BLANKET	1900.610	2139.181	3910.0
FB-8	FILTER BLANKET	1885.886	2136.788	3910.0
FB-9	FILTER BLANKET	1917.013	2098.886	3910.0
FB-10	FILTER BLANKET	1728.787	1943.887	3910.0
FB-11	FILTER BLANKET	1888.782	1947.080	3910.0
FB-12	FILTER BLANKET	1889.140	1904.418	3910.0
FB-13	FILTER BLANKET	1718.409	1888.719	3872.5
FB-14	FILTER BLANKET	1708.409	1818.889	3872.5
FB-15	FILTER BLANKET	1848.418	1788.743	3910.0
FB-16	FILTER BLANKET	1879.197	1768.884	3910.0
FB-17	FILTER BLANKET	1871.785	1783.143	3905.6
FB-18	FILTER BLANKET	1700.884	1773.484	3894.0
FB-19	FILTER BLANKET	1709.808	1768.774	3880.0
FD-1	FILTER DIAPHRAGM	1709.408	1818.888	3880.0
FD-2	FILTER DIAPHRAGM	1718.409	1888.718	3880.0
FD-3	FILTER DIAPHRAGM	1889.140	1904.418	3910.0
FD-4	FILTER DIAPHRAGM	1848.418	1788.743	3910.0
R-1	ROAD CENTERLINE	1898.845	1729.226	3900.7
R-2	ROAD CENTERLINE	1871.024	1730.888	3900.7
R-3	ROAD CENTERLINE	1838.888	1798.188	3913.6
R-4	ROAD CENTERLINE	1928.614	2221.872	3915.2
TB-1	TOE BERM	1892.182	1788.841	3882.0
TB-2	TOE BERM	1898.888	1876.280	3883.0
TB-3	TOE BERM	1823.780	1881.878	3884.0
TB-4	TOE BERM	1798.203	1820.826	3901.0
TB-5	TOE BERM	1798.824	1830.468	3902.5
TB-6	TOE BERM	1922.423	1888.448	3903.0
TB-7	TOE BERM	1887.417	2138.577	3907.0
TB-8	TOE BERM	1922.820	2187.791	3913.0
TB-9	TOE BERM	1872.878	2188.088	3910.0
TB-10	TOE BERM	1808.817	2099.823	3910.0
TB-11	TOE BERM	1719.387	1894.898	3910.0
TB-12	TOE BERM	1893.642	1992.802	3933.0
TB-13	TOE BERM	1879.779	1991.884	3932.0
TB-14	TOE BERM	1911.086	1889.020	3932.0
TB-15	TOE BERM	1907.880	1884.898	3932.0
TB-16	TOE BERM	1828.610	1816.008	3910.0
TB-17	TOE BERM	1822.139	1798.910	3910.0
TB-18	TOE BERM	1838.888	1771.898	3913.4
TB-19	TOE BERM	1888.088	1778.943	3909.0
TB-20	TOE BERM	1877.779	1782.882	3901.0
TB-21	TOE BERM	1791.888	1790.415	3883.0
TD-1	TOE DRAIN	1790.177	1915.898	3897.4
TD-2	TOE DRAIN	1776.705	1982.878	3898.4
TD-3	TOE DRAIN	1882.888	2148.428	3904.4
TO-1	TERMINAL OUTLET	1894.818	1803.898	3880.0
TO-2	TERMINAL OUTLET	1898.380	1821.828	3872.0
TO-3	TERMINAL OUTLET	1885.142	1842.719	3872.0
TO-4	TERMINAL OUTLET	1838.915	1883.888	3880.0
TO-5	TERMINAL OUTLET	1810.880	1840.482	3882.0
TO-6	TERMINAL OUTLET	1809.884	1828.884	3882.0

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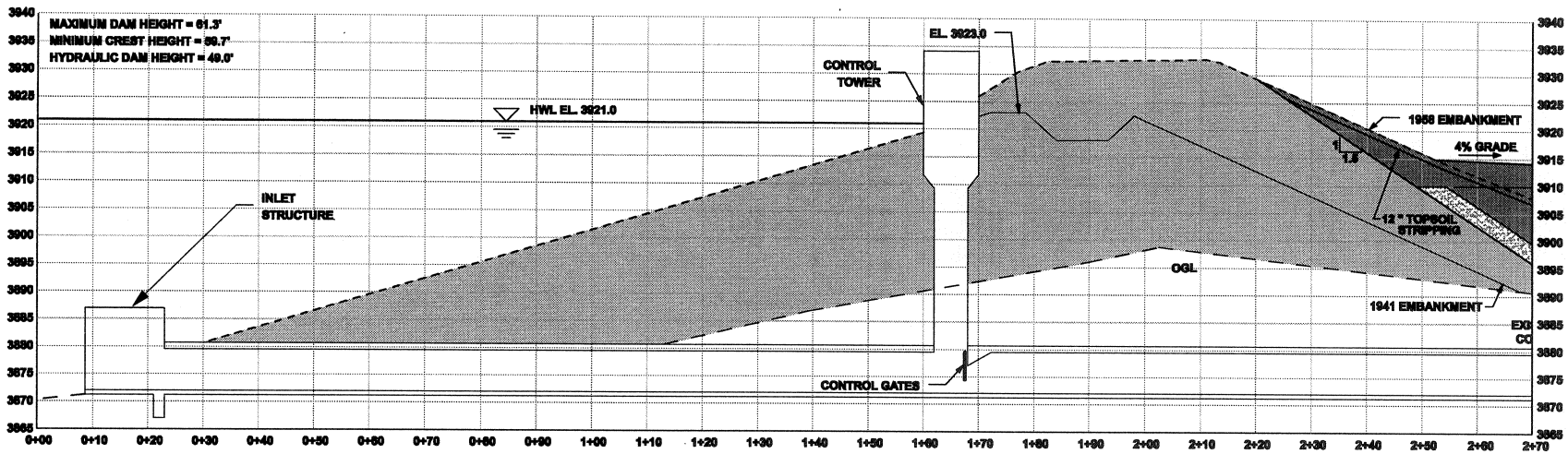
	BG	8/9/06
REVISED	KG	8/9/06
	KHS	8/9/06
APPROVED	KHS	8/9/06
	SH	8/9/06

DEADMAN'S BASIN TERMINAL OUTLET REPLACEMENT

Coordinate Plan

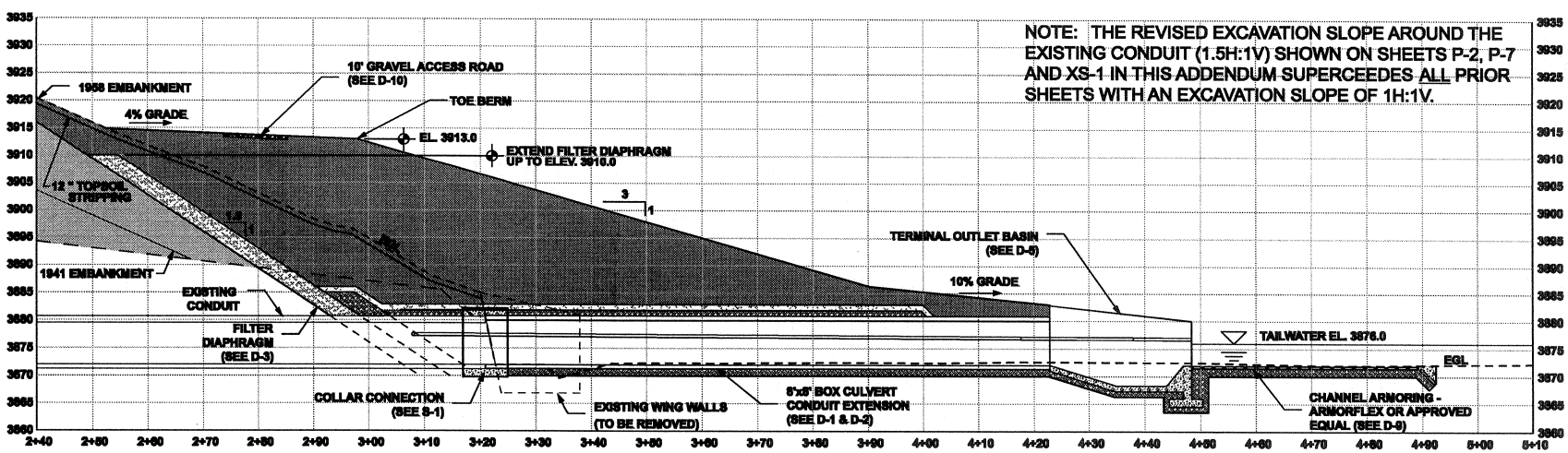
SHEET

P-7



A-A'
P-6 | XS-1
CROSS SECTION
5 0 5 10 20
(IN FEET)

EGL = EXISTING GROUND LINE
OGL = ORIGINAL GROUND LINE



NOTE: THE REVISED EXCAVATION SLOPE AROUND THE EXISTING CONDUIT (1.5H:1V) SHOWN ON SHEETS P-2, P-7 AND XS-1 IN THIS ADDENDUM SUPERCEEDES ALL PRIOR SHEETS WITH AN EXCAVATION SLOPE OF 1H:1V.

A-A'
P-6 | XS-1
CROSS SECTION
5 0 5 10 20
(IN FEET)

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DATE	BY	
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REVISED		
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DEADMAN'S BASIN TERMINAL OUTLET REPLACEMENT

Cross Sections A-A'

SHEET
XS-1