

LPP-NORTH DAKOTA DIVERSION PHASE 4

Fargo-Moorhead Metro Flood Risk Management Project, Feasibility Study, Phase 3, Report for the US Army Corps of Engineers and the cities of Fargo, ND & Moorhead, MN

State Sales Tax Source: <http://www.nd.gov/tax/salesanduse/> 5%. City/County sales tax not included. Not assuming all materials are purchased in Cass County.

Sources: U.S. Department of Labor January 2009, MN Department of Revenue June 2010, 2010 RS Means Heavy Construction Cost Data

Contractor assumptions for the MII estimates are coordinated with the USACE. Contractor assumptions are developed in the estimate to reflect one possible scenario by which the work could be constructed. Other scenarios are certainly possible. These contractor assumptions apply to items in estimate groups 09 Channels & Canals and 11 Levees & Floodwalls. These assumptions do not apply to cost estimate group 08 Roads, Railroads and Bridges, as discussed in Consultant Appendix G narrative text.

The cost estimate assumes the work is performed by a prime general contractor performing management duties, and discipline-specific subcontractors performing work tasks. This arrangement exists once. However, this arrangement and the estimated contractor costs are assumed to be applicable to each 1-year to 2-year phase of the \$200M/year funding scenario utilized, as discussed during the July 1st, 2010 meeting with USACE. A summary of contractor assumptions is included in Consultant Exhibit G-K.

PRIME CONTRACTOR:

Job Office Overhead (JOOH) costs are those that occur specifically as a result of a particular project and include contractor supervision, field engineering, surveying, quality control, testing, shop drawings, safety and security, temporary offices, permits and fees, travel, vehicles, supplies and other miscellaneous items to run a field office. JOOH rates are individualized by contractor. A JOOH of 5% is assumed for the earthwork prime contractor. This is assumed to cover all estimated costs associated with mobilization/demobilization for the prime contractor. This percentage assumes the prime contractor functions as a management company in this estimate and does not incur significant costs to manage the fleet of equipment (rather, this cost is incurred by the subcontractors). Page 5-8 of EPA/COE guidance document EPA 540-R-00-002 indicates 5% for JOOH is appropriate for large projects over \$500,000. A summary of contractor assumptions is included in Consultant Exhibit G-K1.1.

Home Office Overhead (HOOH) is commonly referred to as general and administrative (G & A) cost. Typical estimated costs associated with HOOH are the contractor's main office, furniture and equipment, equipment yard, management and staff, office utilities, corporate vehicles, business insurance and taxes. A HOOH of 5% was used for the prime contractor. Page 5-8 of EPA/COE guidance document EPA 540-R-00-002 indicates 5% for HOOH is appropriate. A summary of contractor assumptions is included in Consultant Exhibit G-K1.1.

Mobilization/demobilization includes all costs required to furnish construction equipment and supplies at the beginning, during and at the end of the Project. The prime contractor is assumed to have no mobilization/demobilization beyond JOOH (0%), as the entity is assumed to be performing a managerial role only. The prime contractor is assumed to not be performing the role of a subcontractor for facilities/components of the Project, and it does not have significant field equipment mobilization needs beyond that covered under JOOH. A summary of contractor assumptions is included in Consultant Exhibit G-K1.1.

Contractor profit is determined using USACE weighted guidelines method (ETL 1110-2-573, Section 5.3.3) to calculate the percentage for prime contractor profit at 9%. Section 5.3 of COE ETL 1110-2-573 identifies a profit range of 3% (for basic work) to 12% (for the most risky work) as appropriate. Exhibit G-K2.1 in Consultant's Appendix G shows weighted guidelines profit calculations performed to help develop the assumed rate.

Estimated by MRM, PKN, ATS - Barr Engineering / JLH - CEMVP
Designed by
Prepared by Barr Engineering Company Job # 34/09-1004 400 100

Preparation Date 6/15/2010
Effective Date of Pricing 6/15/2010
Estimated Construction Time Days

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Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
LPP ND Diversion Phase 4 Labor	63,495,106.15	6,349,510.62	30,940,817.20	13,674,474.20	135,514,906.25	2,295,434.3805
09 Channels and Canals	51,299,742.65	5,129,974.26	25,037,152.24	10,982,497.68	109,636,403.68	1,861,080.8225
901 Diversion Channel	31,540,416.42	3,154,041.64	15,021,874.14	6,744,358.80	66,090,949.09	1,162,056.0136
90101 Reach 2012	68,858.74	6,885.87	32,488.73	14,406.04	143,619.17	2,554.9698
9010102 Clearing and Grubbing	4,603.73	460.37	1,971.67	650.00	8,951.07	216.6667
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	2,002.00	200.20	650.00	0.00	3,371.35	130.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,601.73	260.17	1,321.67	650.00	5,579.72	86.6667
9010103 Temporary Erosion and Sedimentation Control	2,926.82	292.68	768.69	0.00	4,827.79	112.5656
(Note: Historical projects referenced; 3% of construction cost)						
MIL B-LABORER Laborers, (Semi-Skilled)	2,482.02	248.20	624.27	0.00	4,078.75	83.6823
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	444.80	44.48	144.42	0.00	749.05	28.8833
9010104 Dewatering and Control of Water	1,545.60	154.56	533.76	240.00	2,927.51	48.0000
(Note: Dewatering and Control of Water: The total cost of Dewatering and Control of Water is estimated to be approximately 2% of the total cost of construction of the reach)						
MIL B-EQOPRMED Equip. Operators, Medium (Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)	1,071.04	107.10	414.40	240.00	2,152.27	32.0000
MIL B-LABORER Laborers, (Semi-Skilled)	474.56	47.46	119.36	0.00	775.23	16.0000
9010105 Strip and Stockpile Topsoil - Channel	1,776.11	177.61	857.87	383.24	3,711.94	66.8213
(Note: It is assumed that the contractor will strip and salvage 12 inches of topsoil from work areas. Topsoil quantities for suitable topsoil stripping are based on channel and spoil pile plan areas multiplied by the depth of 12 inches. The estimate assumes scraper crews will strip material over the channel excavation areas and dozer crews will stockpile at the edges. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	242.13	24.21	78.61	0.00	408.88	15.7227
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,533.98	153.40	779.25	383.24	3,303.07	51.0987
9010106 Strip and Stockpile Topsoil - Spoil Berm	2,251.48	225.15	1,118.87	528.60	4,766.08	79.2900
(Note: It is assumed that the contractor will strip and salvage 12 inches of topsoil from work areas. Topsoil quantities for suitable topsoil stripping are based on channel and spoil pile plan areas multiplied by the depth of 12 inches. The estimate assumes dozer crews will strip and stockpile material over the spoil berm excavation areas. See Consultant Appendix F-Drawings for specific dimensions.)						

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	135.67	13.57	44.05	0.00	228.47	8.8100
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,115.81	211.58	1,074.82	528.60	4,537.60	70.4800
9010107 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	12,804.20	1,280.42	6,269.77	2,879.07	27,282.71	467.0086
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,280.24	128.02	415.66	0.00	2,192.03	83.1324
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	11,523.96	1,152.40	5,854.11	2,879.07	25,090.69	383.8762
9010108 Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	28,691.52	2,869.15	14,070.18	6,479.92	61,245.53	1,042.8565
(Note: The volume of Type 2 excavation based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	2,754.55	275.45	894.33	0.00	4,721.63	178.8667
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	25,936.98	2,593.70	13,175.85	6,479.92	56,523.91	863.9899
9010109 Excavation and Embankment - Channel - Type 3 Oxidized Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 3 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
9010110 Excavation and Embankment - Channel - Type 4 Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 4 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
9010111 Excavation and Embankment - Channel	0.00	0.00	0.00	0.00	0.00	0.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
9010112 Temporary Haul Roads	1,571.95	157.20	717.87	357.36	3,273.58	53.2557
(Note: The volume of class V aggregate base was calculated using a typical temporary haul road cross section and reach length. This calculation is assuming 1-way traffic and that the haul road would be constructed only on one side of the diversion (protected side). See Consultant Appendix F-Drawings for specific dimensions.)						
MIL B-EQOPRMED Equip. Operators, Medium (Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)	535.52	53.55	207.20	120.00	1,076.14	16.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	86.36	8.64	28.04	0.00	146.57	5.6077
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	950.07	95.01	482.63	237.36	2,050.88	31.6480
9010113 Excavation and Embankment - Channel - Lower Bank Protection Riprap Excavation	538.54	53.85	264.10	121.63	1,141.28	19.5745
901011301 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
901011302 Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	538.54	53.85	264.10	121.63	1,141.28	19.5745

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: The volume of Type 2 excavation based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	51.70	5.17	16.79	0.00	87.83	3.3573
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	486.84	48.68	247.31	121.63	1,053.45	16.2171
901011303 Excavation and Embankment - Channel - Type 3 Oxidized Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 3 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
901011304 Excavation and Embankment - Channel - Type 4 Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 4 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
9010114 Lower Bank Protection	3,262.17	326.22	1,657.17	815.00	6,996.11	108.6667
(Note: The area of geotextile and volume of rip rap was calculated from the typical cross sections on the drawings and the reach length. See Consultant Appendix F- Drawings for specific dimensions.)						
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	3,262.17	326.22	1,657.17	815.00	6,996.11	108.6667
9010115 Low Flow Channel Riprap Protection	152.10	15.21	77.27	38.00	326.20	5.0667
(Note: The area of geotextile and volume of rip rap was calculated from the typical cross sections on the drawings and the reach length. See Consultant Appendix F- Drawings for specific dimensions.)						
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	152.10	15.21	77.27	38.00	326.20	5.0667

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
9010116 Topsoil Placement - Channel	542.04	54.20	266.11	122.82	1,139.23	19.6509
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	50.44	5.04	16.38	0.00	84.94	3.2752
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	491.60	49.16	249.73	122.82	1,054.29	16.3758
9010117 Topsoil Placement - Spoil Berm	3,736.17	373.62	1,827.86	837.90	7,836.53	136.5467
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	382.33	38.23	124.13	0.00	643.84	24.8267
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	3,353.83	335.38	1,703.73	837.90	7,192.69	111.7200
9010120 Site Restoration	3,765.84	376.58	1,736.80	780.00	7,712.82	156.0000
(Note: The area of site restoration was determined calculating the disturbed area from the drawings. See Consultant Appendix F-Drawings for specific areas.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	800.80	80.08	260.00	0.00	1,348.54	52.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,561.04	156.10	793.00	390.00	3,347.83	52.0000
USR Truck Driver - Articulated Truck (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,404.00	140.40	683.80	390.00	3,016.44	52.0000
9010121 Snow Removal	690.46	69.05	350.75	172.50	1,480.77	23.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	690.46	69.05	350.75	172.50	1,480.77	23.0000
90102 Reach 2013	357,002.83	35,700.28	170,380.90	76,650.77	749,100.41	13,126.4164
9010202 Clearing and Grubbing	2,124.80	212.48	910.00	300.00	4,131.27	100.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	924.00	92.40	300.00	0.00	1,556.01	60.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,200.80	120.08	610.00	300.00	2,575.26	40.0000
9010203 Temporary Erosion and Sedimentation Control	11,419.67	1,141.97	3,017.45	0.00	18,846.90	446.9839
(Note: Historical projects referenced; 3% of construction cost)						
MIL B-LABORER Laborers, (Semi-Skilled)	9,434.86	943.49	2,373.03	0.00	15,504.50	318.1006

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,984.80	198.48	644.42	0.00	3,342.39	128.8833
9010204 Dewatering and Control of Water	6,182.40	618.24	2,135.04	960.00	11,710.03	192.0000
(Note: Dewatering and Control of Water: The total cost of Dewatering and Control of Water is estimated to be approximately 2% of the total cost of construction of the reach)						
MIL B-EQOPRMED Equip. Operators, Medium (Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)	4,284.16	428.42	1,657.60	960.00	8,609.09	128.0000
MIL B-LABORER Laborers, (Semi-Skilled)	1,898.24	189.82	477.44	0.00	3,100.94	64.0000
9010205 Strip and Stockpile Topsoil - Channel	8,428.80	842.88	4,071.14	1,818.72	17,615.59	317.1108
(Note: It is assumed that the contractor will strip and salvage 12 inches of topsoil from work areas. Topsoil quantities for suitable topsoil stripping are based on channel and spoil pile plan areas multiplied by the depth of 12 inches. The estimate assumes scraper crews will strip material over the channel excavation areas and dozer crews will stockpile at the edges. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,149.06	114.91	373.07	0.00	1,940.39	74.6143
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	7,279.74	727.97	3,698.07	1,818.72	15,675.20	242.4965
9010206 Strip and Stockpile Topsoil - Spoil Berm	9,410.06	941.01	4,676.31	2,209.28	19,919.78	331.3920
(Note: It is assumed that the contractor will strip and salvage 12 inches of topsoil from work areas. Topsoil quantities for suitable topsoil stripping are based on channel and spoil pile plan areas multiplied by the depth of 12 inches. The estimate assumes dozer crews will strip and stockpile material over the spoil berm excavation areas. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	567.05	56.70	184.11	0.00	954.91	36.8213
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	8,843.01	884.30	4,492.20	2,209.28	18,964.87	294.5707
9010207 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	60,539.71	6,053.97	29,644.20	13,612.57	128,995.73	2,208.0691
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	6,053.12	605.31	1,965.30	0.00	10,364.15	393.0594
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	54,486.59	5,448.66	27,678.90	13,612.57	118,631.58	1,815.0097

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
9010208 Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	82,164.05	8,216.41	40,292.84	18,556.59	175,389.13	2,986.4333
(Note: The volume of Type 2 excavation based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	7,888.21	788.82	2,561.11	0.00	13,521.34	512.2213
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	74,275.84	7,427.58	37,731.73	18,556.59	161,867.79	2,474.2120
9010209 Excavation and Embankment - Channel - Type 3 Oxidized Brenna	116,435.06	11,643.51	56,551.55	25,550.31	246,178.56	4,326.5581
(Note: The volume of Type 3 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	14,165.70	1,416.57	4,599.25	0.00	24,221.28	919.8503
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	102,269.37	10,226.94	51,952.29	25,550.31	221,957.29	3,406.7078
9010210 Excavation and Embankment - Channel - Type 4 Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 4 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
9010211 Excavation and Embankment - Channel	0.00	0.00	0.00	0.00	0.00	0.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
9010212 Temporary Haul Roads	6,346.33	634.63	2,871.98	1,441.52	13,188.77	213.5027
(Note: The volume of class V aggregate base was calculated using a typical temporary haul road cross section and reach length. This calculation is assuming 1-way traffic and that the haul road would be constructed only on one side of the diversion (protected side). See Consultant Appendix F-Drawings for specific dimensions.)						

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
MIL B-EQOPRMED Equip. Operators, Medium (Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)	2,409.84	240.98	932.40	540.00	4,842.61	72.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	328.03	32.80	106.50	0.00	556.73	21.3007
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	3,608.46	360.85	1,833.08	901.52	7,789.43	120.2020
9010213 Excavation and Embankment - Channel - Lower Bank Protection Riprap Excavation	2,794.52	279.45	1,357.28	613.22	5,908.45	103.8403
901021301 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
901021302 Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 2 excavation based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
901021303 Excavation and Embankment - Channel - Type 3 Oxidized Brenna	2,794.52	279.45	1,357.28	613.22	5,908.45	103.8403
(Note: The volume of Type 3 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	339.99	34.00	110.39	0.00	581.33	22.0770
USR Operator - Medium	2,454.53	245.45	1,246.89	613.22	5,327.13	81.7633

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
901021304 Excavation and Embankment - Channel - Type 4 Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 4 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9010214 Lower Bank Protection	12,392.26	1,239.23	6,295.20	3,096.00	26,576.65	412.8000
(Note: The area of geotextile and volume of rip rap was calculated from the typical cross sections on the drawings and the reach length. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Operator - Medium	12,392.26	1,239.23	6,295.20	3,096.00	26,576.65	412.8000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9010215 Low Flow Channel Riprap Protection	580.39	58.04	294.83	145.00	1,244.71	19.3333
(Note: The area of geotextile and volume of rip rap was calculated from the typical cross sections on the drawings and the reach length. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Operator - Medium	580.39	58.04	294.83	145.00	1,244.71	19.3333
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9010216 Topsoil Placement - Channel	2,572.57	257.26	1,262.97	582.91	5,406.92	93.2655
USR Laborer - ND Cass County Davis Bacon	239.38	23.94	77.72	0.00	403.12	15.5442
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	2,333.19	233.32	1,185.25	582.91	5,003.80	77.7212
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9010217 Topsoil Placement - Spoil Berm	16,229.04	1,622.90	7,939.82	3,639.65	34,040.10	593.1273
USR Laborer - ND Cass County Davis Bacon	1,660.76	166.08	539.21	0.00	2,796.70	107.8413
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	14,568.29	1,456.83	7,400.61	3,639.65	31,243.40	485.2860
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9010220 Site Restoration	16,801.44	1,680.14	7,748.80	3,480.00	34,411.03	696.0000
(Note: The area of site restoration was determined calculating the disturbed area from the drawings. See Consultant Appendix F-Drawings for specific areas.)						
USR Laborer - ND Cass County Davis Bacon	3,572.80	357.28	1,160.00	0.00	6,016.57	232.0000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	6,964.64	696.46	3,538.00	1,740.00	14,936.49	232.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Truck Driver - Articulated Truck	6,264.00	626.40	3,050.80	1,740.00	13,457.97	232.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9010221 Snow Removal	2,581.72	258.17	1,311.50	645.00	5,536.80	86.0000
USR Operator - Medium	2,581.72	258.17	1,311.50	645.00	5,536.80	86.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
90103 Reach 2014	2,700,820.00	270,082.00	1,289,541.35	580,592.35	5,668,272.88	99,368.1750
9010302 Clearing and Grubbing						
USR Laborer - ND Cass County Davis Bacon	7,238.00	723.80	2,350.00	0.00	12,188.74	470.0000
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	9,406.27	940.63	4,778.33	2,350.00	20,172.84	313.3333
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9010303 Temporary Erosion and Sedimentation Control	81,525.38	8,152.54	21,674.24	0.00	134,622.33	3,247.6119
(Note: Historical projects referenced; 3% of construction cost)						
MIL B-LABORER Laborers, (Semi-Skilled)	65,543.52	6,554.35	16,485.32	0.00	107,709.00	2,209.8286
USR Laborer - ND Cass County Davis Bacon	15,981.86	1,598.19	5,188.92	0.00	26,913.33	1,037.7833
(Note: Clay County MN - Davis Bacon Wage Rate)						
9010304 Dewatering and Control of Water	51,004.80	5,100.48	17,614.08	7,920.00	96,607.73	1,584.0000
(Note: Dewatering and Control of Water: The total cost of Dewatering and Control of Water is estimated to be approximately 2% of the total cost of construction of the reach)						
MIL B-EQOPRMED Equip. Operators, Medium	35,344.32	3,534.43	13,675.20	7,920.00	71,024.99	1,056.0000
(Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)						
MIL B-LABORER Laborers, (Semi-Skilled)	15,660.48	1,566.05	3,938.88	0.00	25,582.74	528.0000
9010305 Strip and Stockpile Topsoil - Channel	59,131.11	5,913.11	28,560.54	12,759.00	123,579.76	2,224.6468
(Note: It is assumed that the contractor will strip and salvage 12 inches of topsoil from work areas. Topsoil quantities for suitable topsoil stripping are based on channel and spoil pile plan areas multiplied by the depth of 12 inches. The estimate assumes scraper crews will strip material over the channel excavation areas and dozer crews will stockpile at the edges. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon	8,061.07	806.11	2,617.23	0.00	13,612.53	523.4463
(Note: Clay County MN - Davis Bacon Wage Rate)						

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	51,070.04	5,107.00	25,943.31	12,759.00	109,967.22	1,701.2005
9010306 Strip and Stockpile Topsoil - Spoil Berm	82,602.96	8,260.30	41,049.36	19,393.40	174,858.89	2,909.0100
(Note: It is assumed that the contractor will strip and salvage 12 inches of topsoil from work areas. Topsoil quantities for suitable topsoil stripping are based on channel and spoil pile plan areas multiplied by the depth of 12 inches. The estimate assumes dozer crews will strip and stockpile material over the spoil berm excavation areas. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	4,977.64	497.76	1,616.12	0.00	8,382.31	323.2233
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	77,625.32	7,762.53	39,433.25	19,393.40	166,476.59	2,585.7867
9010307 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	389,781.78	38,978.18	190,862.62	87,643.85	830,532.34	14,216.5393
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	38,972.67	3,897.27	12,653.46	0.00	66,729.05	2,530.6929
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	350,809.11	35,080.91	178,209.16	87,643.85	763,803.29	11,685.8464
9010308 Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	700,668.16	70,066.82	343,604.16	158,244.53	1,495,661.16	25,467.3265
(Note: The volume of Type 2 excavation based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	67,268.06	6,726.81	21,840.28	0.00	115,305.57	4,368.0560
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	633,400.10	63,340.01	321,763.88	158,244.53	1,380,355.59	21,099.2705
9010309 Excavation and Embankment - Channel - Type 3 Oxidized Brenna	844,976.48	84,497.65	410,398.08	185,420.17	1,786,533.12	31,398.1008
(Note: The volume of Type 3 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	102,801.33	10,280.13	33,377.05	0.00	175,775.31	6,675.4109

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	742,175.15	74,217.51	377,021.02	185,420.17	1,610,757.81	24,722.6899
9010310 Excavation and Embankment - Channel - Type 4 Brenna	14,956.99	1,495.70	7,267.93	3,286.83	31,671.99	555.1862
(Note: The volume of Type 4 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,800.92	180.09	584.71	0.00	3,083.34	116.9429
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	13,156.07	1,315.61	6,683.21	3,286.83	28,588.65	438.2434
9010311 Excavation and Embankment - Channel	0.00	0.00	0.00	0.00	0.00	0.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
9010312 Temporary Haul Roads	44,214.27	4,421.43	20,000.38	10,042.50	91,876.04	1,486.9667
(Note: The volume of class V aggregate base was calculated using a typical temporary haul road cross section and reach length. This calculation is assuming 1-way traffic and that the haul road would be constructed only on one side of the diversion (protected side). See Consultant Appendix F-Drawings for specific dimensions.)						
MIL B-EQOPRMEQ Equip. Operators, Medium (Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)	16,868.88	1,686.89	6,526.80	3,780.00	33,898.29	504.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	2,278.69	227.87	739.83	0.00	3,867.38	147.9667
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	25,066.70	2,506.67	12,733.75	6,262.50	54,110.37	835.0000
9010313 Excavation and Embankment - Channel - Lower Bank Protection Riprap Excavation	20,445.16	2,044.52	9,931.23	4,488.06	43,243.82	759.5088
901031301 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
901031302 Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 2 excavation based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
901031303 Excavation and Embankment - Channel - Type 3 Oxidized Brenna	15,310.89	1,531.09	7,436.37	3,359.80	32,371.81	568.9305
(Note: The volume of Type 3 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,862.75	186.28	604.79	0.00	3,185.03	120.9578
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	13,448.14	1,344.81	6,831.58	3,359.80	29,186.78	447.9727
901031304 Excavation and Embankment - Channel - Type 4 Brenna	5,134.27	513.43	2,494.85	1,128.27	10,872.01	190.5782
(Note: The volume of Type 4 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	618.20	61.82	200.71	0.00	1,058.41	40.1429
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	4,516.07	451.61	2,294.14	1,128.27	9,813.60	150.4354
9010314 Lower Bank Protection	86,101.36	8,610.14	43,739.03	21,511.00	184,654.46	2,868.1333
(Note: The area of geotextile and volume of rip rap was calculated from the typical cross sections on the drawings and the reach length. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	86,101.36	8,610.14	43,739.03	21,511.00	184,654.46	2,868.1333
9010315 Low Flow Channel Riprap Protection	4,038.69	403.87	2,051.63	1,009.00	8,661.45	134.5333

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: The area of geotextile and volume of rip rap was calculated from the typical cross sections on the drawings and the reach length. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	4,038.69	403.87	2,051.63	1,009.00	8,661.45	134.5333
9010316 Topsoil Placement - Channel	18,047.93	1,804.79	8,860.39	4,089.41	37,932.32	654.3055
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,679.38	167.94	545.25	0.00	2,828.07	109.0509
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	16,368.54	1,636.85	8,315.13	4,089.41	35,104.26	545.2545
9010317 Topsoil Placement - Spoil Berm	133,388.12	13,338.81	65,258.16	29,914.61	279,778.95	4,874.9727
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	13,649.92	1,364.99	4,431.79	0.00	22,986.36	886.3587
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	119,738.19	11,973.82	60,826.36	29,914.61	256,792.59	3,988.6140
9010320 Site Restoration	135,280.56	13,528.06	62,391.20	28,020.00	277,068.10	5,604.0000
(Note: The area of site restoration was determined calculating the disturbed area from the drawings. See Consultant Appendix F-Drawings for specific areas.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	28,767.20	2,876.72	9,340.00	0.00	48,443.74	1,868.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	56,077.36	5,607.74	28,487.00	14,010.00	120,264.47	1,868.0000
USR Truck Driver - Articulated Truck (Note: Hennepin County MN - Davis Bacon Wage Rate)	50,436.00	5,043.60	24,564.20	14,010.00	108,359.89	1,868.0000
9010321 Snow Removal	18,012.00	1,801.20	9,150.00	4,500.00	38,628.84	600.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	18,012.00	1,801.20	9,150.00	4,500.00	38,628.84	600.0000
90104 Reach 2015	9,184,575.45	918,457.54	4,367,818.04	1,959,922.69	19,227,228.73	338,551.0950
9010402 Clearing and Grubbing	65,868.80	6,586.88	28,210.00	9,300.00	128,069.22	3,100.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	28,644.00	2,864.40	9,300.00	0.00	48,236.27	1,860.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	37,224.80	3,722.48	18,910.00	9,300.00	79,832.95	1,240.0000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
9010403 Temporary Erosion and Sedimentation Control	316,718.20	31,671.82	84,304.31	0.00	523,051.41	12,660.1824
(Note: Historical projects referenced; 3% of construction cost)						
MIL B-LABORER Laborers, (Semi-Skilled)	253,236.06	25,323.61	63,693.22	0.00	416,147.99	8,537.9657
USR Laborer - ND Cass County Davis Bacon	63,482.14	6,348.21	20,611.08	0.00	106,903.42	4,122.2167
(Note: Clay County MN - Davis Bacon Wage Rate)						
9010404 Dewatering and Control of Water	202,473.60	20,247.36	69,922.56	31,440.00	383,503.41	6,288.0000
(Note: Dewatering and Control of Water: The total cost of Dewatering and Control of Water is estimated to be approximately 2% of the total cost of construction of the reach)						
MIL B-EQOPRMED Equip. Operators, Medium	140,306.24	14,030.62	54,286.40	31,440.00	281,947.68	4,192.0000
(Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)						
MIL B-LABORER Laborers, (Semi-Skilled)	62,167.36	6,216.74	15,636.16	0.00	101,555.73	2,096.0000
9010405 Strip and Stockpile Topsoil - Channel	205,023.72	20,502.37	99,027.19	44,238.95	428,484.79	7,713.4584
(Note: It is assumed that the contractor will strip and salvage 12 inches of topsoil from work areas. Topsoil quantities for suitable topsoil stripping are based on channel and spoil pile plan areas multiplied by the depth of 12 inches. The estimate assumes scraper crews will strip material over the channel excavation areas and dozer crews will stockpile at the edges. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon	27,949.94	2,794.99	9,074.66	0.00	47,198.38	1,814.9314
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	177,073.78	17,707.38	89,952.54	44,238.95	381,286.42	5,898.5270
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9010406 Strip and Stockpile Topsoil - Spoil Berm	350,381.28	35,038.13	174,121.23	82,262.00	741,708.12	12,339.3000
(Note: It is assumed that the contractor will strip and salvage 12 inches of topsoil from work areas. Topsoil quantities for suitable topsoil stripping are based on channel and spoil pile plan areas multiplied by the depth of 12 inches. The estimate assumes dozer crews will strip and stockpile material over the spoil berm excavation areas. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon	21,113.91	2,111.39	6,855.17	0.00	35,555.66	1,371.0333
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	329,267.37	32,926.74	167,266.07	82,262.00	706,152.45	10,968.2667
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9010407 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	1,163,796.64	116,379.66	569,870.86	261,683.90	2,479,774.07	42,447.2397
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon	116,363.22	11,636.32	37,780.27	0.00	199,237.23	7,556.0531

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	1,047,433.42	104,743.34	532,090.60	261,683.90	2,280,536.84	34,891.1866
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9010408 Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	1,662,429.40	166,242.94	815,247.04	375,456.42	3,548,657.14	60,424.6554
(Note: The volume of Type 2 excavation based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon	159,602.52	15,960.25	51,819.00	0.00	273,577.96	10,363.8000
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	1,502,826.88	150,282.69	763,428.04	375,456.42	3,275,079.18	50,060.8554
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9010409 Excavation and Embankment - Channel - Type 3 Oxidized Brenna	3,240,542.46	324,054.25	1,573,904.63	711,099.02	6,851,476.45	120,413.8594
(Note: The volume of Type 3 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon	394,250.11	39,425.01	128,003.28	0.00	674,110.30	25,600.6564
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	2,846,292.35	284,629.24	1,445,901.35	711,099.02	6,177,366.15	94,813.2030
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9010410 Excavation and Embankment - Channel - Type 4 Brenna	172,100.71	17,210.07	83,627.49	37,819.45	364,429.85	6,388.1817
(Note: The volume of Type 4 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon	20,722.06	2,072.21	6,727.94	0.00	35,478.06	1,345.5886
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	151,378.65	15,137.86	76,899.55	37,819.45	328,951.80	5,042.5932
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9010411 Excavation and Embankment - Channel	0.00	0.00	0.00	0.00	0.00	0.0000
USR Laborer - ND Cass County Davis Bacon	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
9010412 Temporary Haul Roads	170,184.86	17,018.49	77,025.65	38,656.50	353,683.75	5,725.9000
(Note: The volume of class V aggregate base was calculated using a typical temporary haul road cross section and reach length. This calculation is assuming 1-way traffic and that the haul road would be constructed only on one side of the diversion (protected side). See Consultant Appendix F-Drawings for specific dimensions.)						
MIL B-EQOPRMED Equip. Operators, Medium (Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)	64,530.16	6,453.02	24,967.60	14,460.00	129,674.41	1,928.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	8,804.18	880.42	2,858.50	0.00	14,942.42	571.7000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	96,850.52	9,685.05	49,199.55	24,196.50	209,066.93	3,226.2000
9010413 Excavation and Embankment - Channel - Lower Bank Protection Riprap Excavation	79,426.11	7,942.61	38,608.71	17,472.88	168,058.75	2,945.8214
901041301 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
901041302 Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	5,281.04	528.10	2,589.79	1,192.71	11,191.63	191.9509
(Note: The volume of Type 2 excavation based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	507.01	50.70	164.61	0.00	861.26	32.9227
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	4,774.03	477.40	2,425.18	1,192.71	10,330.37	159.0282
901041303 Excavation and Embankment - Channel - Type 3 Oxidized Brenna	42,579.37	4,257.94	20,680.45	9,343.54	90,025.52	1,582.1875
(Note: The volume of Type 3 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	5,180.28	518.03	1,681.91	0.00	8,857.53	336.3819
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	37,399.09	3,739.91	18,998.54	9,343.54	81,168.00	1,245.8057
901041304 Excavation and Embankment - Channel - Type 4 Brenna	31,565.71	3,156.57	15,338.47	6,936.62	66,841.60	1,171.6830
(Note: The volume of Type 4 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	3,800.72	380.07	1,234.00	0.00	6,507.18	246.8000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	27,764.99	2,776.50	14,104.47	6,936.62	60,334.42	924.8830
9010414 Lower Bank Protection	332,665.63	33,266.56	168,992.37	83,111.00	713,440.43	11,081.4667
(Note: The area of geotextile and volume of rip rap was calculated from the typical cross sections on the drawings and the reach length. See Consultant Appendix F- Drawings for specific dimensions.)						
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	332,665.63	33,266.56	168,992.37	83,111.00	713,440.43	11,081.4667
9010415 Low Flow Channel Riprap Protection	15,606.40	1,560.64	7,927.97	3,899.00	33,469.75	519.8667
(Note: The area of geotextile and volume of rip rap was calculated from the typical cross sections on the drawings and the reach length. See Consultant Appendix F- Drawings for specific dimensions.)						
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	15,606.40	1,560.64	7,927.97	3,899.00	33,469.75	519.8667
9010416 Topsoil Placement - Channel	62,577.26	6,257.73	30,721.46	14,179.14	131,522.08	2,268.6618
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	5,822.90	582.29	1,890.55	0.00	9,805.72	378.1103
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	56,754.36	5,675.44	28,830.91	14,179.14	121,716.37	1,890.5515
9010417 Topsoil Placement - Spoil Berm	537,837.62	53,783.76	263,129.07	120,619.44	1,128,103.82	19,656.5013
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	55,038.20	5,503.82	17,869.55	0.00	92,683.90	3,573.9093
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	482,799.41	48,279.94	245,259.53	120,619.44	1,035,419.92	16,082.5920

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
9010420 Site Restoration	537,356.40	53,735.64	247,828.00	111,300.00	1,100,559.58	22,260.0000
(Note: The area of site restoration was determined calculating the disturbed area from the drawings. See Consultant Appendix F-Drawings for specific areas.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	114,268.00	11,426.80	37,100.00	0.00	192,426.42	7,420.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	222,748.40	22,274.84	113,155.00	55,650.00	477,710.05	7,420.0000
USR Truck Driver - Articulated Truck (Note: Hennepin County MN - Davis Bacon Wage Rate)	200,340.00	20,034.00	97,573.00	55,650.00	430,423.11	7,420.0000
9010421 Snow Removal	69,586.36	6,958.64	35,349.50	17,385.00	149,236.10	2,318.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	69,586.36	6,958.64	35,349.50	17,385.00	149,236.10	2,318.0000
90105 Reach 2016	2,063,285.58	206,328.56	977,033.55	438,379.14	4,312,034.70	75,786.7835
9010502 Clearing and Grubbing	18,414.93	1,841.49	7,886.67	2,600.00	35,804.30	866.6667
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	8,008.00	800.80	2,600.00	0.00	13,485.41	520.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	10,406.93	1,040.69	5,286.67	2,600.00	22,318.89	346.6667
9010503 Temporary Erosion and Sedimentation Control	87,705.32	8,770.53	23,353.77	0.00	144,847.54	3,509.3862
(Note: Historical projects referenced; 3% of construction cost)						
MIL B-LABORER Laborers, (Semi-Skilled)	70,012.51	7,001.25	17,609.35	0.00	115,052.99	2,360.5029
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	17,692.80	1,769.28	5,744.42	0.00	29,794.54	1,148.8833
9010504 Dewatering and Control of Water	56,414.40	5,641.44	19,482.24	8,760.00	106,854.00	1,752.0000
(Note: Dewatering and Control of Water: The total cost of Dewatering and Control of Water is estimated to be approximately 2% of the total cost of construction of the reach)						
MIL B-EQOPRMEQ Equip. Operators, Medium (Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)	39,092.96	3,909.30	15,125.60	8,760.00	78,557.94	1,168.0000
MIL B-LABORER Laborers, (Semi-Skilled)	17,321.44	1,732.14	4,356.64	0.00	28,296.06	584.0000
9010505 Strip and Stockpile Topsoil - Channel	49,884.47	4,988.45	24,094.38	10,763.81	104,254.94	1,876.7670

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: It is assumed that the contractor will strip and salvage 12 inches of topsoil from work areas. Topsoil quantities for suitable topsoil stripping are based on channel and spoil pile plan areas multiplied by the depth of 12 inches. The estimate assumes scraper crews will strip material over the channel excavation areas and dozer crews will stockpile at the edges. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	6,800.52	680.05	2,207.96	0.00	11,483.87	441.5922
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	43,083.95	4,308.39	21,886.42	10,763.81	92,771.07	1,435.1748
9010506 Strip and Stockpile Topsoil - Spoil Berm	103,455.63	10,345.56	51,412.06	24,289.16	219,001.08	3,643.3740
(Note: It is assumed that the contractor will strip and salvage 12 inches of topsoil from work areas. Topsoil quantities for suitable topsoil stripping are based on channel and spoil pile plan areas multiplied by the depth of 12 inches. The estimate assumes dozer crews will strip and stockpile material over the spoil berm excavation areas. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	6,234.22	623.42	2,024.10	0.00	10,498.37	404.8193
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	97,221.41	9,722.14	49,387.96	24,289.16	208,502.71	3,238.5547
9010507 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	329,636.70	32,963.67	161,411.66	74,120.01	702,377.47	12,022.8634
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	32,959.01	3,295.90	10,700.98	0.00	56,432.46	2,140.1956
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	296,677.69	29,667.77	150,710.68	74,120.01	645,945.01	9,882.6678
9010508 Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	597,800.02	59,780.00	293,158.13	135,011.96	1,276,076.63	21,728.3573
(Note: The volume of Type 2 excavation based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	57,392.15	5,739.21	18,633.81	0.00	98,377.06	3,726.7627
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	540,407.87	54,040.79	274,524.32	135,011.96	1,177,699.57	18,001.5947
9010509 Excavation and Embankment - Channel - Type 3 Oxidized Brenna	320,723.53	32,072.35	155,772.76	70,379.02	678,105.52	11,917.6215

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: The volume of Type 3 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	39,019.79	3,901.98	12,668.76	0.00	66,718.16	2,533.7526
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	281,703.74	28,170.37	143,104.00	70,379.02	611,387.36	9,383.8689
9010510 Excavation and Embankment - Channel - Type 4 Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 4 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
9010511 Excavation and Embankment - Channel	0.00	0.00	0.00	0.00	0.00	0.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
9010512 Temporary Haul Roads	47,150.36	4,715.04	21,333.73	10,709.63	97,982.60	1,586.0083
(Note: The volume of class V aggregate base was calculated using a typical temporary haul road cross section and reach length. This calculation is assuming 1-way traffic and that the haul road would be constructed only on one side of the diversion (protected side). See Consultant Appendix F-Drawings for specific dimensions.)						
MIL B-EQOPRMED Equip. Operators, Medium (Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)	17,939.92	1,793.99	6,941.20	4,020.00	36,050.56	536.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	2,434.10	243.41	790.29	0.00	4,131.14	158.0583
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	26,776.34	2,677.63	13,602.24	6,689.63	57,800.89	891.9500
9010513 Excavation and Embankment - Channel - Lower Bank Protection Riprap Excavation	19,277.80	1,927.78	9,381.88	4,255.93	40,778.69	713.0890
901051301 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	0.00	0.00	0.00	0.00	0.00	0.0000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
901051302 Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	4,000.77	400.08	1,961.96	903.57	8,478.48	145.4169
(Note: The volume of Type 2 excavation based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	384.10	38.41	124.71	0.00	652.47	24.9413
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	3,616.68	361.67	1,837.25	903.57	7,826.01	120.4755
901051303 Excavation and Embankment - Channel - Type 3 Oxidized Brenna	15,277.03	1,527.70	7,419.92	3,352.36	32,300.20	567.6721
(Note: The volume of Type 3 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,858.63	185.86	603.45	0.00	3,177.99	120.6903
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	13,418.40	1,341.84	6,816.47	3,352.36	29,122.22	446.9819
901051304 Excavation and Embankment - Channel - Type 4 Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 4 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
9010514 Low Flow Channel and Lower Bank Protection	91,973.27	9,197.33	46,721.93	22,978.00	197,247.47	3,063.7333

<u>Description</u>	<u>BaseWage</u>	<u>Overtime</u>	<u>TaxableFringe</u>	<u>Subsistence</u>	<u>Total</u>	<u>ManHours</u>
(Note: The area of geotextile and volume of rip rap was calculated from the typical cross sections on the drawings and the reach length. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	91,973.27	9,197.33	46,721.93	22,978.00	197,247.47	3,063.7333
9010515 Low Flow Channel Riprap Protection	4,314.87	431.49	2,191.93	1,078.00	9,253.75	143.7333
(Note: The area of geotextile and volume of rip rap was calculated from the typical cross sections on the drawings and the reach length. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	4,314.87	431.49	2,191.93	1,078.00	9,253.75	143.7333
9010516 Topsoil Placement - Channel	15,225.80	1,522.58	7,474.90	3,449.95	32,000.91	551.9927
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,416.78	141.68	459.99	0.00	2,385.85	91.9988
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	13,809.02	1,380.90	7,014.91	3,449.95	29,615.06	459.9939
9010517 Topsoil Placement - Spoil Berm	152,301.10	15,230.11	74,511.05	34,156.17	319,448.56	5,566.1907
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	15,585.33	1,558.53	5,060.17	0.00	26,245.58	1,012.0347
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	136,715.76	13,671.58	69,450.88	34,156.17	293,202.98	4,554.1560
9010520 Site Restoration	149,764.56	14,976.46	69,071.20	31,020.00	306,732.78	6,204.0000
(Note: The area of site restoration was determined calculating the disturbed area from the drawings. See Consultant Appendix F-Drawings for specific areas.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	31,847.20	3,184.72	10,340.00	0.00	53,630.44	2,068.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	62,081.36	6,208.14	31,537.00	15,510.00	133,140.75	2,068.0000
USR Truck Driver - Articulated Truck (Note: Hennepin County MN - Davis Bacon Wage Rate)	55,836.00	5,583.60	27,194.20	15,510.00	119,961.59	2,068.0000
9010521 Snow Removal	19,242.82	1,924.28	9,775.25	4,807.50	41,268.48	641.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	19,242.82	1,924.28	9,775.25	4,807.50	41,268.48	641.0000
90106 Reach 2017	15,901,755.67	1,590,175.57	7,602,012.29	3,418,759.29	33,382,846.65	586,894.8489

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
9010602 Clearing and Grubbing	87,470.93	8,747.09	37,461.67	12,350.00	170,070.41	4,116.6667
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	38,038.00	3,803.80	12,350.00	0.00	64,055.69	2,470.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	49,432.93	4,943.29	25,111.67	12,350.00	106,014.72	1,646.6667
9010603 Temporary Erosion and Sedimentation Control (Note: Historical projects referenced; 3% of construction cost)	419,874.18	41,987.42	111,784.55	0.00	693,422.97	16,793.0694
MIL B-LABORER Laborers, (Semi-Skilled)	335,413.65	33,541.37	84,362.30	0.00	551,192.10	11,308.6194
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	84,460.53	8,446.05	27,422.25	0.00	142,230.87	5,484.4500
9010604 Dewatering and Control of Water (Note: Dewatering and Control of Water: The total cost of Dewatering and Control of Water is estimated to be approximately 2% of the total cost of construction of the reach)	269,320.80	26,932.08	93,007.68	41,820.00	510,118.08	8,364.0000
MIL B-EQOPRMEQ Equip. Operators, Medium (Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)	186,628.72	18,662.87	72,209.20	41,820.00	375,033.46	5,576.0000
MIL B-LABORER Laborers, (Semi-Skilled)	82,692.08	8,269.21	20,798.48	0.00	135,084.62	2,788.0000
9010605 Strip and Stockpile Topsoil - Channel (Note: It is assumed that the contractor will strip and salvage 12 inches of topsoil from work areas. Topsoil quantities for suitable topsoil stripping are based on channel and spoil pile plan areas multiplied by the depth of 12 inches. The estimate assumes scraper crews will strip material over the channel excavation areas and dozer crews will stockpile at the edges. See Consultant Appendix F-Drawings for specific dimensions.)	319,885.55	31,988.56	154,505.87	69,023.24	668,537.73	12,034.8213
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	43,608.53	4,360.85	14,158.61	0.00	73,640.65	2,831.7227
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	276,277.02	27,627.70	140,347.25	69,023.24	594,897.08	9,203.0987
9010606 Strip and Stockpile Topsoil - Spoil Berm (Note: It is assumed that the contractor will strip and salvage 12 inches of topsoil from work areas. Topsoil quantities for suitable topsoil stripping are based on channel and spoil pile plan areas multiplied by the depth of 12 inches. The estimate assumes dozer crews will strip and stockpile material over the spoil berm excavation areas. See Consultant Appendix F-Drawings for specific dimensions.)	429,397.36	42,939.74	213,388.11	100,813.28	908,974.11	15,121.9920
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	25,875.41	2,587.54	8,401.11	0.00	43,573.99	1,680.2213
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	403,521.96	40,352.20	204,987.00	100,813.28	865,400.12	13,441.7707

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
9010607 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	1,797,765.16	179,776.52	880,958.70	405,127.28	3,833,695.83	65,456.9513
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	176,175.71	17,617.57	57,199.90	0.00	301,777.21	11,439.9809
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,621,589.45	162,158.95	823,758.80	405,127.28	3,531,918.63	54,016.9704
9010608 Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	2,163,015.47	216,301.55	1,061,496.16	489,554.29	4,620,816.36	78,487.7262
(Note: The volume of Type 2 excavation based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	203,492.85	20,349.28	66,069.11	0.00	348,967.88	13,213.8213
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,959,522.62	195,952.26	995,427.05	489,554.29	4,271,848.48	65,273.9048
9010609 Excavation and Embankment - Channel - Type 3 Oxidized Brenna	5,530,808.26	553,080.83	2,686,267.75	1,213,670.98	11,693,783.67	205,516.8158
(Note: The volume of Type 3 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	672,887.88	67,288.79	218,470.09	0.00	1,150,540.34	43,694.0184
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	4,857,920.38	485,792.04	2,467,797.66	1,213,670.98	10,543,243.33	161,822.7974
9010610 Excavation and Embankment - Channel - Type 4 Brenna	2,488,181.71	248,818.17	1,209,061.75	546,782.52	5,268,820.15	92,358.4618
(Note: The volume of Type 4 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	299,593.54	29,959.35	97,270.63	0.00	512,931.37	19,454.1257
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,188,588.17	218,858.82	1,111,791.13	546,782.52	4,755,888.78	72,904.3361

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
9010611 Excavation and Embankment - Channel	0.00	0.00	0.00	0.00	0.00	0.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
9010612 Temporary Haul Roads	225,624.36	22,562.44	102,103.63	51,248.61	468,885.35	7,590.3723
(Note: The volume of class V aggregate base was calculated using a typical temporary haul road cross section and reach length. This calculation is assuming 1-way traffic and that the haul road would be constructed only on one side of the diversion (protected side). See Consultant Appendix F-Drawings for specific dimensions.)						
MIL B-EQOPRMEQ Equip. Operators, Medium (Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)	85,683.20	8,568.32	33,152.00	19,200.00	172,181.79	2,560.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	11,661.25	1,166.13	3,786.12	0.00	19,791.43	757.2243
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	128,279.90	12,827.99	65,165.51	32,048.61	276,912.13	4,273.1480
9010613 Excavation and Embankment - Channel - Lower Bank Protection Riprap Excavation	109,874.36	10,987.44	53,384.68	24,137.37	232,583.39	4,079.3886
901061301 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
901061302 Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 2 excavation based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium	0.00	0.00	0.00	0.00	0.00	0.0000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
901061303 Excavation and Embankment - Channel - Type 3 Oxidized Brenna	24,631.61	2,463.16	11,963.37	5,405.12	52,078.59	915.2748
(Note: The volume of Type 3 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon	2,996.72	299.67	972.96	0.00	5,123.96	194.5925
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	21,634.88	2,163.49	10,990.40	5,405.12	46,954.62	720.6823
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
901061304 Excavation and Embankment - Channel - Type 4 Brenna	85,242.76	8,524.28	41,421.32	18,732.25	180,504.81	3,164.1138
(Note: The volume of Type 4 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon	10,263.79	1,026.38	3,332.40	0.00	17,572.55	666.4800
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	74,978.97	7,497.90	38,088.92	18,732.25	162,932.26	2,497.6338
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9010614 Lower Bank Protection	440,617.55	44,061.75	223,831.37	110,081.00	944,955.97	14,677.4667
(Note: The area of geotextile and volume of rip rap was calculated from the typical cross sections on the drawings and the reach length. See Consultant Appendix F- Drawings for specific dimensions.)						
USR Operator - Medium	440,617.55	44,061.75	223,831.37	110,081.00	944,955.97	14,677.4667
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9010615 Low Flow Channel Riprap Bank Protection	20,669.77	2,066.98	10,500.13	5,164.00	44,328.75	688.5333
(Note: The area of geotextile and volume of rip rap was calculated from the typical cross sections on the drawings and the reach length. See Consultant Appendix F- Drawings for specific dimensions.)						
USR Operator - Medium	20,669.77	2,066.98	10,500.13	5,164.00	44,328.75	688.5333
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9010616 Topsoil Placement - Channel	97,635.57	9,763.56	47,932.87	22,122.86	205,206.09	3,539.6582
USR Laborer - ND Cass County Davis Bacon	9,085.12	908.51	2,949.72	0.00	15,299.28	589.9430
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	88,550.45	8,855.04	44,983.16	22,122.86	189,906.82	2,949.7152
(Note: Hennepin County MN - Davis Bacon Wage Rate)						

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
9010617 Topsoil Placement - Spoil Berm	694,522.99	69,452.30	339,785.07	155,758.86	1,456,748.31	25,382.9253
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	71,072.19	7,107.22	23,075.39	0.00	119,685.01	4,615.0773
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	623,450.80	62,345.08	316,709.68	155,758.86	1,337,063.30	20,767.8480
9010620 Site Restoration	714,930.24	71,493.02	329,724.80	148,080.00	1,464,248.54	29,616.0000
(Note: The area of site restoration was determined calculating the disturbed area from the drawings. See Consultant Appendix F-Drawings for specific areas.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	152,028.80	15,202.88	49,360.00	0.00	256,015.31	9,872.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	296,357.44	29,635.74	150,548.00	74,040.00	635,573.26	9,872.0000
USR Truck Driver - Articulated Truck (Note: Hennepin County MN - Davis Bacon Wage Rate)	266,544.00	26,654.40	129,816.80	74,040.00	572,659.97	9,872.0000
9010621 Snow Removal	92,161.40	9,216.14	46,817.50	23,025.00	197,650.92	3,070.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	92,161.40	9,216.14	46,817.50	23,025.00	197,650.92	3,070.0000
90107 Reach 2018	847,630.58	84,763.06	393,306.17	173,327.33	1,755,957.69	30,609.0263
9010702 Clearing and Grubbing	4,603.73	460.37	1,971.67	650.00	8,951.07	216.6667
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	2,002.00	200.20	650.00	0.00	3,371.35	130.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,601.73	260.17	1,321.67	650.00	5,579.72	86.6667
9010703 Temporary Erosion and Sedimentation Control	77,123.73	7,712.37	19,718.42	0.00	126,917.16	2,737.0191
(Note: Historical projects referenced; 3% of construction cost)						
MIL B-LABORER Laborers, (Semi-Skilled)	72,743.20	7,274.32	18,296.17	0.00	119,540.38	2,452.5691
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	4,380.53	438.05	1,422.25	0.00	7,376.78	284.4500
9010704 Dewatering and Control of Water	13,910.40	1,391.04	4,803.84	2,160.00	26,347.56	432.0000
(Note: Dewatering and Control of Water: The total cost of Dewatering and Control of Water is estimated to be approximately 2% of the total cost of construction of the reach)						
MIL B-EQOPRMEQ Equip. Operators, Medium	9,639.36	963.94	3,729.60	2,160.00	19,370.45	288.0000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)						
MIL B-LABORER Laborers, (Semi-Skilled)	4,271.04	427.10	1,074.24	0.00	6,977.11	144.0000
9010705 Strip and Stockpile Topsoil - Channel	34,337.20	3,433.72	16,584.99	7,409.10	71,762.27	1,291.8434
(Note: It is assumed that the contractor will strip and salvage 12 inches of topsoil from work areas. Topsoil quantities for suitable topsoil stripping are based on channel and spoil pile plan areas multiplied by the depth of 12 inches. The estimate assumes scraper crews will strip material over the channel excavation areas and dozer crews will stockpile at the edges. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	4,681.03	468.10	1,519.82	0.00	7,904.74	303.9632
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	29,656.16	2,965.62	15,065.17	7,409.10	63,857.52	987.8802
9010706 Strip and Stockpile Topsoil - Spoil Berm	8,608.45	860.85	4,277.95	2,021.08	18,222.89	303.1620
(Note: It is assumed that the contractor will strip and salvage 12 inches of topsoil from work areas. Topsoil quantities for suitable topsoil stripping are based on channel and spoil pile plan areas multiplied by the depth of 12 inches. The estimate assumes dozer crews will strip and stockpile material over the spoil berm excavation areas. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	518.74	51.87	168.42	0.00	873.56	33.6847
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	8,089.71	808.97	4,109.53	2,021.08	17,349.33	269.4773
9010707 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	201,292.80	20,129.28	98,566.11	45,261.42	428,907.13	7,341.7671
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	20,126.44	2,012.64	6,534.56	0.00	34,460.51	1,306.9114
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	181,166.37	18,116.64	92,031.55	45,261.42	394,446.62	6,034.8557
9010708 Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	108,222.33	10,822.23	53,071.69	24,441.80	231,013.68	3,933.5787
(Note: The volume of Type 2 excavation based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	10,389.95	1,038.99	3,373.36	0.00	17,809.62	674.6720

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	97,832.38	9,783.24	49,698.33	24,441.80	213,204.06	3,258.9067
9010709 Excavation and Embankment - Channel - Type 3 Oxidized Brenna	169,030.56	16,903.06	82,096.74	37,091.77	357,381.19	6,280.9306
(Note: The volume of Type 3 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	20,564.56	2,056.46	6,676.80	0.00	35,162.40	1,335.3608
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	148,466.01	14,846.60	75,419.94	37,091.77	322,218.79	4,945.5698
9010710 Excavation and Embankment - Channel - Type 4 Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 4 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
9010711 Excavation and Embankment - Channel	0.00	0.00	0.00	0.00	0.00	0.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
9010712 Temporary Haul Roads	48,825.61	4,882.56	22,102.50	11,090.64	101,475.20	1,642.9777
(Note: The volume of class V aggregate base was calculated using a typical temporary haul road cross section and reach length. This calculation is assuming 1-way traffic and that the haul road would be constructed only on one side of the diversion (protected side). See Consultant Appendix F-Drawings for specific dimensions.)						
MIL B-EQOPRMED Equip. Operators, Medium (Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)	18,475.44	1,847.54	7,148.40	4,140.00	37,126.70	552.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	2,529.08	252.91	821.13	0.00	4,292.34	164.2257
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	27,821.10	2,782.11	14,132.97	6,950.64	60,056.16	926.7520

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
9010713 Excavation and Embankment - Channel - Lower Bank Protection Riprap Excavation	2,274.24	227.42	1,112.67	510.08	4,816.44	83.1126
901071301 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	160.09	16.01	78.39	36.00	338.72	5.8391
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	16.01	1.60	5.20	0.00	27.17	1.0394
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	144.09	14.41	73.20	36.00	311.56	4.7997
901071302 Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	1,583.97	158.40	776.77	357.74	3,356.76	57.5728
(Note: The volume of Type 2 excavation based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	152.07	15.21	49.37	0.00	258.32	9.8747
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,431.90	143.19	727.40	357.74	3,098.44	47.6982
901071303 Excavation and Embankment - Channel - Type 3 Oxidized Brenna	530.18	53.02	257.50	116.34	1,120.95	19.7006
(Note: The volume of Type 3 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	64.50	6.45	20.94	0.00	110.29	4.1885
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	465.67	46.57	236.56	116.34	1,010.66	15.5121
901071304 Excavation and Embankment - Channel - Type 4 Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 4 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
9010714 Lower Bank Protection	95,559.66	9,555.97	48,543.80	23,874.00	204,938.90	3,183.2000
(Note: The area of geotextile and volume of rip rap was calculated from the typical cross sections on the drawings and the reach length. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	95,559.66	9,555.97	48,543.80	23,874.00	204,938.90	3,183.2000
9010715 Low Flow Channel Riprap Protection	4,482.99	448.30	2,277.33	1,120.00	9,614.29	149.3333
(Note: The area of geotextile and volume of rip rap was calculated from the typical cross sections on the drawings and the reach length. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	4,482.99	448.30	2,277.33	1,120.00	9,614.29	149.3333
9010716 Topsoil Placement - Channel	10,480.46	1,048.05	5,145.24	2,374.73	22,027.37	379.9564
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	975.22	97.52	316.63	0.00	1,642.27	63.3261
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	9,505.24	950.52	4,828.61	2,374.73	20,385.10	316.6303
9010717 Topsoil Placement - Spoil Berm	11,806.04	1,180.60	5,775.93	2,647.71	24,762.94	431.4787
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,208.14	120.81	392.25	0.00	2,034.50	78.4507
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	10,597.90	1,059.79	5,383.68	2,647.71	22,728.44	353.0280
9010720 Site Restoration	37,079.04	3,707.90	17,100.80	7,680.00	75,941.58	1,536.0000
(Note: The area of site restoration was determined calculating the disturbed area from the drawings. See Consultant Appendix F-Drawings for specific areas.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	7,884.80	788.48	2,560.00	0.00	13,277.94	512.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	15,370.24	1,537.02	7,808.00	3,840.00	32,963.28	512.0000
USR Truck Driver - Articulated Truck (Note: Hennepin County MN - Davis Bacon Wage Rate)	13,824.00	1,382.40	6,732.80	3,840.00	29,700.36	512.0000
9010721 Snow Removal	19,993.32	1,999.33	10,156.50	4,995.00	42,878.02	666.0000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	19,993.32	1,999.33	10,156.50	4,995.00	42,878.02	666.0000
90108 Reach 2019	416,487.58	41,648.76	189,293.11	82,321.19	851,888.86	15,164.6987
(Note: Note: Quantities for Levee included under 11 Levees and Floodproofing)						
9010802 Clearing and Grubbing	5,666.13	566.61	2,426.67	800.00	11,016.71	266.6667
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	2,464.00	246.40	800.00	0.00	4,149.36	160.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	3,202.13	320.21	1,626.67	800.00	6,867.35	106.6667
9010803 Temporary Erosion and Sedimentation Control	46,089.31	4,608.93	11,985.32	0.00	75,958.02	1,721.6582
(Note: Historical projects referenced; 3% of construction cost)						
MIL B-LABORER Laborers, (Semi-Skilled)	40,716.50	4,071.65	10,240.90	0.00	66,910.26	1,372.7749
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	5,372.80	537.28	1,744.42	0.00	9,047.76	348.8833
9010804 Dewatering and Control of Water	17,001.60	1,700.16	5,871.36	2,640.00	32,202.58	528.0000
(Note: Dewatering and Control of Water: The total cost of Dewatering and Control of Water is estimated to be approximately 2% of the total cost of construction of the reach)						
MIL B-EQOPRMED Equip. Operators, Medium (Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)	11,781.44	1,178.14	4,558.40	2,640.00	23,675.00	352.0000
MIL B-LABORER Laborers, (Semi-Skilled)	5,220.16	522.02	1,312.96	0.00	8,527.58	176.0000
9010805 Strip and Stockpile Topsoil - Channel	22,013.30	2,201.33	10,632.51	4,749.92	46,006.22	828.1905
(Note: It is assumed that the contractor will strip and salvage 12 inches of topsoil from work areas. Topsoil quantities for suitable topsoil stripping are based on channel and spoil pile plan areas multiplied by the depth of 12 inches. The estimate assumes scraper crews will strip material over the channel excavation areas and dozer crews will stockpile at the edges. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	3,000.97	300.10	974.34	0.00	5,067.67	194.8684
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	19,012.33	1,901.23	9,658.16	4,749.92	40,938.55	633.3222
9010806 Strip and Stockpile Topsoil - Spoil Berm	26,175.82	2,617.58	13,008.02	6,145.52	55,410.54	921.8280
(Note: It is assumed that the contractor will strip and salvage 12 inches of topsoil from work areas. Topsoil quantities for suitable topsoil stripping are based on channel and spoil pile plan areas multiplied by the depth of 12 inches. The estimate assumes dozer crews will strip and stockpile material over the spoil berm excavation areas. See Consultant Appendix F-Drawings for specific dimensions.)						

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,577.35	157.74	512.13	0.00	2,656.25	102.4253
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	24,598.47	2,459.85	12,495.89	6,145.52	52,754.30	819.4027
9010807 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	16,110.00	1,611.00	7,982.14	3,750.00	34,767.37	571.4286
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,100.00	110.00	357.14	0.00	1,901.85	71.4286
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	15,010.00	1,501.00	7,625.00	3,750.00	32,865.52	500.0000
9010808 Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	13,091.38	1,309.14	6,419.95	2,956.66	27,743.39	475.8349
(Note: The volume of Type 2 excavation based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,256.85	125.68	408.07	0.00	2,135.02	81.6133
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	11,834.53	1,183.45	6,011.88	2,956.66	25,608.38	394.2215
9010809 Excavation and Embankment - Channel - Type 3 Oxidized Brenna	67,229.66	6,722.97	32,652.89	14,752.76	142,143.61	2,498.1566
(Note: The volume of Type 3 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	8,179.28	817.93	2,655.61	0.00	13,985.38	531.1220
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	59,050.38	5,905.04	29,997.28	14,752.76	128,158.24	1,967.0346
9010810 Excavation and Embankment - Channel - Type 4 Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 4 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
9010811 Excavation and Embankment - Channel	0.00	0.00	0.00	0.00	0.00	0.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
9010812 Temporary Haul Roads	27,431.23	2,743.12	12,411.00	6,230.64	57,003.90	922.6777
(Note: The volume of class V aggregate base was calculated using a typical temporary haul road cross section and reach length. This calculation is assuming 1-way traffic and that the haul road would be constructed only on one side of the diversion (protected side). See Consultant Appendix F-Drawings for specific dimensions.)						
MIL B-EQOPRMED Equip. Operators, Medium (Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)	10,442.64	1,044.26	4,040.40	2,340.00	20,984.66	312.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,415.66	141.57	459.63	0.00	2,402.64	91.9257
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	15,572.94	1,557.29	7,910.97	3,890.64	33,616.60	518.7520
9010813 Excavation and Embankment - Channel - Lower Bank Protection Riprap Excavation	12,016.79	1,201.68	5,837.01	2,637.71	25,407.67	446.4295
901081301 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
901081302 Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	119.34	11.93	58.53	26.95	252.91	4.3378

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: The volume of Type 2 excavation based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	11.46	1.15	3.72	0.00	19.46	0.7440
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	107.89	10.79	54.81	26.95	233.45	3.5938
901081303 Excavation and Embankment - Channel - Type 3 Oxidized Brenna	11,897.44	1,189.74	5,778.49	2,610.75	25,154.75	442.0917
(Note: The volume of Type 3 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,447.46	144.75	469.96	0.00	2,474.95	93.9912
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	10,449.98	1,045.00	5,308.53	2,610.75	22,679.80	348.1005
901081304 Excavation and Embankment - Channel - Type 4 Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 4 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
9010814 Lower Bank Protection	53,487.63	5,348.76	27,171.43	13,363.00	114,710.50	1,781.7333
(Note: The area of geotextile and volume of rip rap was calculated from the typical cross sections on the drawings and the reach length. See Consultant Appendix F- Drawings for specific dimensions.)						
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	53,487.63	5,348.76	27,171.43	13,363.00	114,710.50	1,781.7333
9010815 Low Flow Channel Riprap Protection	2,509.67	250.97	1,274.90	627.00	5,382.29	83.6000
(Note: The area of geotextile and volume of rip rap was calculated from the typical cross sections on the drawings and the reach length. See Consultant Appendix F- Drawings for specific dimensions.)						
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,509.67	250.97	1,274.90	627.00	5,382.29	83.6000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
9010816 Topsoil Placement - Channel	6,718.90	671.89	3,298.55	1,522.41	14,121.48	243.5855
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	625.20	62.52	202.99	0.00	1,052.84	40.5976
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	6,093.70	609.37	3,095.57	1,522.41	13,068.65	202.9879
9010817 Topsoil Placement - Spoil Berm	44,268.94	4,426.89	21,657.92	9,928.08	92,853.23	1,617.9093
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	4,530.15	453.01	1,470.83	0.00	7,628.73	294.1653
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	39,738.79	3,973.88	20,187.10	9,928.08	85,224.50	1,323.7440
9010820 Site Restoration	45,479.76	4,547.98	20,975.20	9,420.00	93,147.09	1,884.0000
(Note: The area of site restoration was determined calculating the disturbed area from the drawings. See Consultant Appendix F-Drawings for specific areas.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	9,671.20	967.12	3,140.00	0.00	16,286.23	628.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	18,852.56	1,885.26	9,577.00	4,710.00	40,431.52	628.0000
USR Truck Driver - Articulated Truck (Note: Hennepin County MN - Davis Bacon Wage Rate)	16,956.00	1,695.60	8,258.20	4,710.00	36,429.34	628.0000
9010821 Snow Removal	11,197.46	1,119.75	5,688.25	2,797.50	24,014.27	373.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	11,197.46	1,119.75	5,688.25	2,797.50	24,014.27	373.0000
902 Hydraulic Structure - Red River Control Structure	3,386,595.81	338,659.58	1,676,404.07	709,043.67	7,620,695.85	123,485.9275
90201 Hydraulic Structure - Red River Control Structure - Site work	1,585,664.53	158,566.45	763,793.88	348,366.44	3,489,517.98	57,081.7839
9020102 Temporary Erosion and Sedimentation Control	41,451.11	4,145.11	10,625.96	0.00	72,381.61	1,483.0176
(Note: Historical projects referenced; 3% of construction cost)						
MIL B-LABORER Laborers, (Semi-Skilled)	38,713.25	3,871.32	9,737.05	0.00	67,491.80	1,305.2343
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	2,737.86	273.79	888.92	0.00	4,889.82	177.7833
9020103 Clearing and Grubbing	12,394.67	1,239.47	5,308.33	1,750.00	25,368.82	583.3333
USR Laborer - ND Cass County Davis Bacon	5,390.00	539.00	1,750.00	0.00	9,626.53	350.0000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	7,004.67	700.47	3,558.33	1,750.00	15,742.29	233.3333
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9020104 Strip and Stockpile Topsoil	26,538.26	2,653.83	12,818.07	5,726.29	58,194.00	998.4296
(Note: It is assumed that the contractor will strip and salvage 12 inches of topsoil from work areas. Topsoil quantities for suitable topsoil stripping are based on channel and spoil pile plan areas multiplied by the depth of 12 inches. The estimate assumes scraper crews will strip material over the structural excavation areas and dozer crews will stockpile at the edges. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon	3,617.84	361.78	1,174.62	0.00	6,478.87	234.9246
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	22,920.42	2,292.04	11,643.45	5,726.29	51,715.12	763.5050
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9020105 Temporary Haul Roads	21,261.05	2,126.10	8,761.73	4,770.53	45,424.86	669.2017
(Note: The volume of class V aggregate base was calculated using a typical temporary haul road cross section and road length (derived from drawing to nearest accessible roadway). Added to this was the volume of base material required to convert the temp haul road to a permanent haul road. (extra thickness). See Consultant Appendix F-Drawings for specific dimensions.)						
MIL B-EQOPRMED Equip. Operators, Medium	16,065.60	1,606.56	6,216.00	3,600.00	33,927.11	480.0000
(Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)						
USR Laborer - ND Cass County Davis Bacon	510.23	51.02	165.66	0.00	915.75	33.1317
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	4,685.22	468.52	2,380.07	1,170.53	10,582.00	156.0700
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9020106 Coffering - Steel Sheetpile	16,623.00	1,662.30	8,568.07	4,070.00	39,738.48	542.6667
(Note: Sheet Pile quantities were obtained from the structural design and drawings. The number of sheets were determined by dividing the total wall length by the width of one sheet (1.5'). See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter	8,386.25	838.62	4,304.07	2,005.00	20,021.72	267.3333
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Carpenter	2,558.37	255.84	1,234.33	575.00	5,953.87	76.6667
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Oiler	1,952.70	195.27	1,169.17	575.00	4,942.52	76.6667
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Heavy	3,515.55	351.56	1,753.75	862.50	8,320.30	115.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	210.14	21.01	106.75	52.50	500.08	7.0000
9020107 Embankment - Temporary Levee	7,548.76	754.88	3,720.25	1,729.92	16,723.61	271.2063
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	624.48	62.45	202.75	0.00	1,119.41	40.5509
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	6,924.28	692.43	3,517.50	1,729.92	15,604.20	230.6554
9020108 Excavation and Embankment - Channel Realignment	1,352,238.52	135,223.85	665,588.21	308,749.19	3,001,414.91	48,726.1976
902010801 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	1,066,890.27	106,689.03	526,337.52	245,234.19	2,365,466.83	38,236.8237
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	85,299.54	8,529.95	27,694.66	0.00	152,914.76	5,538.9314
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	981,590.73	98,159.07	498,642.86	245,234.19	2,212,552.07	32,697.8924
902010802 Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	198,477.33	19,847.73	97,332.29	44,825.71	444,164.85	7,214.0952
(Note: The volume of Type 2 excavation based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	19,054.93	1,905.49	6,186.67	0.00	34,614.10	1,237.3333
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	179,422.39	17,942.24	91,145.62	44,825.71	409,550.75	5,976.7619
902010803 Excavation and Embankment - Channel - Type 3 Oxidized Brenna	79,993.60	7,999.36	38,852.23	17,553.66	177,403.03	2,972.4462
(Note: The volume of Type 3 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	9,732.16	973.22	3,159.79	0.00	17,640.44	631.9586
USR Operator - Medium	70,261.44	7,026.14	35,692.44	17,553.66	159,762.59	2,340.4876

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
902010804 Excavation and Embankment - Channel - Type 4 Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 4 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
902010805 Excavation and Embankment - Channel	6,877.33	687.73	3,066.18	1,135.62	14,380.20	302.8325
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	2,331.81	233.18	757.08	0.00	4,164.61	151.4163
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	4,545.52	454.55	2,309.10	1,135.62	10,215.59	151.4163
9020109 Dewatering and Control of Water	19,320.00	1,932.00	6,672.00	3,000.00	38,566.28	600.0000
(Note: The total cost of Dewatering and Control of Water is estimated to be approximately 2% of the total cost of construction of the structure.)						
MIL B-EQOPRMED Equip. Operators, Medium (Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)	13,388.00	1,338.80	5,180.00	3,000.00	28,272.59	400.0000
MIL B-LABORER Laborers, (Semi-Skilled)	5,932.00	593.20	1,492.00	0.00	10,293.69	200.0000
9020114 Topsoil Placement	24,300.01	2,430.00	11,929.77	5,506.05	53,568.55	880.9673
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	2,261.15	226.11	734.14	0.00	4,038.41	146.8279
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	22,038.86	2,203.89	11,195.63	5,506.05	49,530.15	734.1394
9020115 Site Restoration	23,174.40	2,317.44	10,688.00	4,800.00	49,840.82	960.0000
(Note: The area of site restoration was determined calculating the disturbed area from the drawings. See Consultant Appendix F-Drawings for specific areas.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	4,928.00	492.80	1,600.00	0.00	8,801.40	320.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	9,606.40	960.64	4,880.00	2,400.00	21,589.42	320.0000
USR Truck Driver - Articulated Truck	8,640.00	864.00	4,208.00	2,400.00	19,450.00	320.0000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9020116 Miscellaneous Features	7,516.61	751.66	2,238.21	0.00	13,515.04	250.6667
MIL B-EQOPRLT Equip. Operators, Light	88.13	8.81	34.53	0.00	166.90	2.6667
MIL B-LABORER Laborers, (Semi-Skilled)	4,982.88	498.29	1,253.28	0.00	8,719.83	168.0000
MIL B-TRKDVRLT Truck Drivers, Light	2,445.60	244.56	950.40	0.00	4,628.31	80.0000
9020117 Snow Removal	19,212.80	1,921.28	9,760.00	4,800.00	43,178.85	640.0000
USR Operator - Medium	19,212.80	1,921.28	9,760.00	4,800.00	43,178.85	640.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9020118 Excavation and Embankment - Channel - Lower Bank Protection Riprap Excavation	1,793.14	179.31	870.91	393.48	3,976.68	66.6305
902011801 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
902011802 Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 2 excavation based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
902011803 Excavation and Embankment - Channel - Type 3 Oxidized Brenna	1,793.14	179.31	870.91	393.48	3,976.68	66.6305
(Note: The volume of Type 3 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon	218.16	21.82	70.83	0.00	395.43	14.1660

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	1,574.98	157.50	800.08	393.48	3,581.25	52.4645
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
902011804 Excavation and Embankment - Channel - Type 4 Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 4 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9020119 Lower Bank Protection	11,739.82	1,173.98	5,963.77	2,933.00	26,384.08	391.0667
(Note: The area of geotextile and volume of rip rap was calculated from the typical cross sections on the drawings and the reach length. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Operator - Medium	11,739.82	1,173.98	5,963.77	2,933.00	26,384.08	391.0667
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9020120 Low Flow Channel Riprap Protection	552.37	55.24	280.60	138.00	1,241.39	18.4000
(Note: The area of geotextile and volume of rip rap was calculated from the typical cross sections on the drawings and the reach length. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Operator - Medium	552.37	55.24	280.60	138.00	1,241.39	18.4000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
90202 Hydraulic Structure Red River Control Structure - Structure	1,800,931.28	180,093.13	912,610.19	360,677.22	4,131,177.87	66,404.1436
9020201 Earthwork - Structural	39,713.21	3,971.32	19,446.46	8,930.04	87,823.80	1,448.4141
USR Laborer - ND Cass County Davis Bacon	3,969.22	396.92	1,288.71	0.00	7,145.31	257.7418
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	35,743.98	3,574.40	18,157.75	8,930.04	80,678.49	1,190.6723
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9020202 Gated Structure	797,124.80	79,712.48	376,451.98	131,763.97	1,761,482.26	33,102.7397
902020201 HP 14X73 Piling	39,412.40	3,941.24	20,368.99	9,696.33	94,449.03	1,292.8442
(Note: Pile quantities were obtained from the structural design and drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter	5,999.93	599.99	2,894.78	1,348.50	13,956.20	179.8000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						

<u>Description</u>	<u>BaseWage</u>	<u>Overtime</u>	<u>TaxableFringe</u>	<u>Subsistence</u>	<u>Total</u>	<u>ManHours</u>
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	18,463.58	1,846.36	9,476.05	4,414.31	44,203.82	588.5745
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	5,381.41	538.14	3,222.08	1,584.63	13,630.38	211.2843
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	9,207.20	920.72	4,593.06	2,258.88	21,801.26	301.1843
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	360.28	36.03	183.02	90.01	857.37	12.0012
902020202 Concrete - Footing	12,667.70	1,266.77	5,607.39	1,913.00	26,942.80	558.1333
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,646.89	264.69	1,358.46	632.82	6,078.34	84.3765
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,407.82	140.78	679.23	316.41	3,162.78	42.1882
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,307.09	230.71	1,250.15	568.25	5,390.97	75.7667
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	3,500.42	350.04	1,136.50	0.00	6,439.78	227.3000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,318.34	131.83	378.83	0.00	2,368.59	75.7667
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	537.27	53.73	321.69	158.21	1,316.56	21.0941
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	949.87	94.99	482.53	237.31	2,185.76	31.6412
902020203 Concrete - Piers	547,455.11	54,745.51	236,638.36	75,226.24	1,150,451.89	25,068.8316
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	94,125.94	9,412.59	48,308.18	22,503.81	216,242.60	3,000.5080
USR Carpenter	48,517.36	4,851.74	23,408.14	10,904.41	108,999.54	1,453.9216

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Cement Mason / Concrete Finisher	114,461.55	11,446.16	62,023.50	28,192.50	267,461.14	3,759.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Laborer - ND Cass County Davis Bacon	173,706.87	17,370.69	56,398.33	0.00	319,572.25	11,279.6667
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Laborer - ND Cass County Davis Bacon	65,406.60	6,540.66	18,795.00	0.00	117,512.63	3,759.0000
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Oiler	18,481.73	1,848.17	11,065.82	5,442.21	45,289.19	725.6275
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	32,755.06	3,275.51	16,639.39	8,183.31	75,374.55	1,091.1078
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
902020204 Concrete - Elevated Deck	6,616.64	661.66	2,863.23	920.92	13,955.45	301.9323
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter	2,499.38	249.94	1,282.75	597.56	5,739.59	79.6741
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Carpenter	664.68	66.47	320.69	149.39	1,493.26	19.9185
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Cement Mason / Concrete Finisher	133.99	13.40	68.13	30.97	305.89	4.1290
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Cement Mason / Concrete Finisher	125.73	12.57	68.13	30.97	293.79	4.1290
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Laborer - ND Cass County Davis Bacon	2,695.21	269.52	875.07	0.00	4,995.06	175.0137
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Laborer - ND Cass County Davis Bacon	71.85	7.18	20.65	0.00	129.08	4.1290
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Oiler	126.83	12.68	75.94	37.35	310.80	4.9796
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	298.98	29.90	151.88	74.69	687.98	9.9593
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
902020205 Steel Reinforcement Bars	124,647.83	12,464.78	73,451.28	28,434.95	311,824.53	3,791.3269

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Rebar quantities were obtained from the structural design and drawings. The amount of rebar was determined by the bar type and spacing in a particular concrete section. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	84,844.86	8,484.49	51,308.55	18,826.52	213,237.34	2,510.2030
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	17,973.05	1,797.31	10,261.71	3,765.30	44,247.42	502.0406
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	9,921.63	992.16	5,940.51	2,921.56	25,587.07	389.5417
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	11,908.29	1,190.83	5,940.51	2,921.56	28,752.71	389.5417
902020206 Hydraulic Gates - Steel	54,243.70	5,424.37	31,342.71	12,657.52	135,264.49	1,687.6688
(Note: The surface area of the hydraulic gates was calculated assuming gate dimensions as shown on the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	27,380.74	2,738.07	16,558.06	6,075.61	68,814.96	810.0810
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	9,666.97	966.70	5,519.35	2,025.20	23,798.87	270.0270
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	6,877.59	687.76	4,117.91	2,025.20	17,736.74	270.0270
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	10,318.41	1,031.84	5,147.39	2,531.50	24,913.92	337.5338
902020209 Steel Sheetpile	10,675.22	1,067.52	5,503.32	2,615.00	25,528.51	348.6667
(Note: Sheet Pile quantities were obtained from the structural design and drawings. The number of sheets were determined by dividing the total wall length by the width of one sheet (1.5'). See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	5,280.62	528.06	2,710.17	1,262.50	12,609.00	168.3333
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,690.75	169.07	815.73	380.00	3,936.48	50.6667
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,290.48	129.05	772.67	380.00	3,267.69	50.6667
USR Operator - Heavy	2,323.32	232.33	1,159.00	570.00	5,501.03	76.0000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	90.06	9.01	45.75	22.50	214.32	3.0000
902020210 Structural Aggregate Backfill	1,406.20	140.62	676.70	300.02	3,065.56	53.3360
(Note: The volume of aggregate was calculated as the base material needed for the gated structure work area and the pile caps. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	205.34	20.53	66.67	0.00	366.74	13.3340
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,200.86	120.09	610.03	300.02	2,698.81	40.0020
9020203 Walls	830,210.70	83,021.07	446,242.47	187,222.63	1,978,802.48	27,461.1252
902020301 HP 14X73 Piling	125,214.10	12,521.41	64,716.10	30,817.70	300,004.25	4,109.0263
(Note: Pile quantities were obtained from the structural design and drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	19,314.56	1,931.46	9,318.68	4,341.00	44,915.46	578.8000
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	57,627.39	5,762.74	29,576.06	13,777.67	137,966.01	1,837.0222
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	17,300.49	1,730.05	10,358.56	5,094.37	43,802.11	679.2498
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	29,611.62	2,961.16	14,771.91	7,264.87	70,084.12	968.6498
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,360.04	136.00	690.89	339.78	3,236.55	45.3045
902020302 Concrete - Footing	38,130.76	3,813.08	18,356.57	7,688.75	84,736.01	1,433.4333
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	13,627.13	1,362.71	6,993.84	3,258.00	31,293.47	434.4000
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	7,247.96	724.80	3,496.92	1,629.00	16,283.14	217.2000
USR Cement Mason / Concrete Finisher	3,107.93	310.79	1,684.10	765.50	7,262.27	102.0667

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	4,715.48	471.55	1,531.00	0.00	8,675.15	306.2000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,775.96	177.60	510.33	0.00	3,190.77	102.0667
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,766.04	276.60	1,656.15	814.50	6,778.14	108.6000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	4,890.26	489.03	2,484.23	1,221.75	11,253.07	162.9000
902020303 Concrete - Elevated Deck	33,472.37	3,347.24	14,466.71	4,634.50	70,550.14	1,530.3161
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	12,434.60	1,243.46	6,381.80	2,972.89	28,554.94	396.3852
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	3,306.84	330.68	1,595.45	743.22	7,429.09	99.0963
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	780.89	78.09	397.06	180.48	1,782.75	24.0645
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	732.76	73.28	397.06	180.48	1,712.24	24.0645
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	13,680.11	1,368.01	4,441.59	0.00	25,349.80	888.3189
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	418.72	41.87	120.32	0.00	752.30	24.0645
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	631.00	63.10	377.80	185.81	1,546.24	24.7741
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,487.44	148.74	755.61	371.61	3,422.77	49.5481
902020304 Concrete - Wall	238,146.43	23,814.64	118,683.43	53,284.11	539,237.66	8,277.0816
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	102,111.14	10,211.11	52,406.42	24,412.93	234,579.90	3,255.0571
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	52,764.51	5,276.45	25,457.26	11,858.97	118,541.10	1,581.1961
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	8,905.61	890.56	4,825.70	2,193.50	20,809.65	292.4667
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	13,553.03	1,355.30	4,400.33	0.00	24,934.38	880.0667
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	5,088.92	508.89	1,462.33	0.00	9,143.00	292.4667
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	20,102.57	2,010.26	12,036.29	5,919.49	49,261.03	789.2647
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	35,620.64	3,562.06	18,095.10	8,899.23	81,968.61	1,186.5637
902020305 Steel Reinforcement	356,340.80	35,634.08	209,981.09	81,289.29	891,437.94	10,838.5719
(Note: Rebar quantities were obtained from the structural design and drawings. The amount of rebar was determined by the bar type and spacing in a particular concrete section. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	242,552.84	24,255.28	146,679.89	53,820.90	609,598.77	7,176.1196
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	51,381.02	5,138.10	29,335.98	10,764.18	126,493.65	1,435.2239
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	28,363.75	2,836.38	16,982.62	8,352.11	73,147.82	1,113.6142
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	34,043.19	3,404.32	16,982.62	8,352.11	82,197.69	1,113.6142
902020307 Steel Sheetpile	38,386.96	3,838.70	19,788.68	9,397.50	91,704.43	1,253.0000
(Note: Sheet Pile quantities were obtained from the structural design and drawings. The number of sheets were determined by dividing the total wall length by the width of one sheet (1.5'). See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	19,496.46	1,949.65	10,006.15	4,661.25	46,501.99	621.5000
USR Carpenter	5,973.23	597.32	2,881.90	1,342.50	13,894.13	179.0000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Oiler	4,559.13	455.91	2,729.75	1,342.50	11,534.46	179.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Heavy	8,208.05	820.80	4,094.63	2,013.75	19,416.65	268.5000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	150.10	15.01	76.25	37.50	357.20	5.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
902020308 Structural Aggregate Backfill	519.29	51.93	249.89	110.79	1,132.05	19.6960
(Note: The volume of aggregate was calculated as the base material needed for the gated structure work area and the pile caps. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon	75.83	7.58	24.62	0.00	135.43	4.9240
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	443.46	44.35	225.27	110.79	996.62	14.7720
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9020204 Riprap	97,720.11	9,772.01	49,574.14	24,322.23	219,480.18	3,266.7520
(Note: The volume of rip rap and Select granular aggregate was determined by the area shown on the drawings and a specified thickness. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon	366.34	36.63	118.94	0.00	654.27	23.7880
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	97,353.78	9,735.38	49,455.20	24,322.23	218,825.91	3,242.9640
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9020205 Fish Passage System	36,162.47	3,616.25	20,895.14	8,438.34	83,589.15	1,125.1125
(Note: The surface area of the hydraulic gates was calculated assuming gate dimensions as shown on the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Ironworker	18,253.83	1,825.38	11,038.70	4,050.41	42,551.61	540.0540
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Ironworker	6,444.64	644.46	3,679.57	1,350.14	14,691.99	180.0180
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Oiler	4,585.06	458.51	2,745.27	1,350.14	10,989.30	180.0180
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Heavy	6,878.94	687.89	3,431.59	1,687.67	15,356.25	225.0225

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
903 Hydraulic Structure - Wolverton Creek	343,996.11	34,399.61	185,301.65	76,595.57	821,377.21	11,450.6444
90301 Hydraulic Structure - Wolverton Creek Closure/Drainage Structure - Site work	4,512.00	451.20	1,922.52	693.05	9,412.65	164.5548
9030101 Excavation and Embankment - Channel Realignment	2,281.72	228.17	1,117.28	513.05	5,098.23	83.2214
903010101 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	2,281.72	228.17	1,117.28	513.05	5,098.23	83.2214
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	228.14	22.81	74.07	0.00	414.08	14.8143
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,053.58	205.36	1,043.21	513.05	4,684.16	68.4071
903010102 Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 2 excavation based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
903010103 Excavation and Embankment - Channel - Type 3 Oxidized Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 3 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
903010104 Excavation and Embankment - Channel - Type 4 Brenna	0.00	0.00	0.00	0.00	0.00	0.0000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: The volume of Type 4 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
9030105 Site Restoration	869.04	86.90	400.80	180.00	1,869.03	36.0000
(Note: The area of site restoration was determined calculating the disturbed area from the drawings. See Consultant Appendix F-Drawings for specific areas.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	184.80	18.48	60.00	0.00	330.05	12.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	360.24	36.02	183.00	90.00	809.60	12.0000
USR Truck Driver - Articulated Truck (Note: Hennepin County MN - Davis Bacon Wage Rate)	324.00	32.40	157.80	90.00	729.37	12.0000
9030106 Miscellaneous Features	1,361.24	136.12	404.44	0.00	2,445.39	45.3333
MIL B-EQOPRLT Equip. Operators, Light	44.07	4.41	17.27	0.00	83.45	1.3333
MIL B-LABORER Laborers, (Semi-Skilled)	909.57	90.96	228.77	0.00	1,590.55	30.6667
MIL B-TRKDVRLT Truck Drivers, Light	407.60	40.76	158.40	0.00	771.38	13.3333
90302 Hydraulic Structure - Wolverton Creek Closure/Drainage Structure - Structure	339,484.11	33,948.41	183,379.13	75,902.52	811,964.55	11,286.0897
9030201 Earthwork - Structural	797.31	79.73	390.42	179.29	1,763.21	29.0794
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	79.69	7.97	25.87	0.00	143.45	5.1746
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	717.62	71.76	364.55	179.29	1,619.76	23.9048
9030202 Structure and Walls	337,043.55	33,704.35	182,155.07	75,314.23	806,510.59	11,202.0770
903020201 HP 14X73 Piling	54,355.46	5,435.55	28,185.35	13,417.67	130,747.49	1,789.0230
(Note: Pile quantities were obtained from the structural design and drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	5,900.84	590.08	2,846.98	1,326.23	13,725.81	176.8308

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	27,769.69	2,776.97	14,252.22	6,639.23	66,719.38	885.2308
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	7,558.75	755.88	4,525.75	2,225.78	19,171.83	296.7708
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	11,775.14	1,177.51	5,874.09	2,888.90	27,915.34	385.1862
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,351.04	135.10	686.32	337.53	3,215.12	45.0045
903020202 Concrete - Footing	15,662.57	1,566.26	7,281.20	2,820.00	34,169.05	632.0000
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	4,605.85	460.59	2,363.86	1,101.18	10,576.93	146.8235
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,449.75	244.98	1,181.93	550.59	5,503.56	73.4118
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,948.80	194.88	1,056.00	480.00	4,553.74	64.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	2,956.80	295.68	960.00	0.00	5,439.68	192.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,113.60	111.36	320.00	0.00	2,000.75	64.0000
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	934.90	93.49	559.76	275.29	2,290.95	36.7059
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,652.87	165.29	839.65	412.94	3,803.44	55.0588
903020203 Concrete - Wall	59,359.08	5,935.91	29,960.87	13,771.08	135,385.65	1,998.8111
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	27,737.15	2,773.71	14,235.52	6,631.45	63,767.71	884.1935
USR Carpenter	13,535.13	1,353.51	6,530.29	3,042.06	30,409.14	405.6078

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Cement Mason / Concrete Finisher	1,218.00	121.80	660.00	300.00	2,846.09	40.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Laborer - ND Cass County Davis Bacon	1,889.07	188.91	613.33	0.00	3,475.98	122.6667
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Laborer - ND Cass County Davis Bacon	696.00	69.60	200.00	0.00	1,250.47	40.0000
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Oiler	5,131.46	513.15	3,072.43	1,511.03	12,574.55	201.4706
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	9,152.27	915.23	4,649.31	2,286.54	21,061.72	304.8725
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
903020204 Concrete - Piers	30,783.18	3,078.32	14,060.19	5,203.80	66,621.65	1,282.5073
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter	9,658.50	965.85	4,957.02	2,309.17	22,272.37	307.8896
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Carpenter	3,546.38	354.64	1,711.02	797.06	7,967.57	106.2745
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Cement Mason / Concrete Finisher	4,476.15	447.62	2,425.50	1,102.50	10,459.37	147.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Laborer - ND Cass County Davis Bacon	6,801.67	680.17	2,208.33	0.00	12,513.31	441.6667
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Laborer - ND Cass County Davis Bacon	2,557.80	255.78	735.00	0.00	4,595.47	147.0000
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Oiler	1,344.92	134.49	805.26	396.03	3,295.69	52.8039
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	2,397.77	239.78	1,218.06	599.04	5,517.87	79.8725
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
903020205 Concrete - Elevated Deck	5,657.27	565.73	2,452.51	793.42	11,943.91	257.4355
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,188.93	218.89	1,123.42	523.33	5,026.68	69.7778
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	582.12	58.21	280.86	130.83	1,307.78	17.4444
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	88.98	8.90	45.24	20.56	203.13	2.7419
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	83.49	8.35	45.24	20.56	195.09	2.7419
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	2,293.12	229.31	744.52	0.00	4,250.78	148.9041
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	47.71	4.77	13.71	0.00	85.72	2.7419
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	111.08	11.11	66.51	32.71	272.19	4.3611
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	261.84	26.18	133.01	65.42	602.53	8.7222
903020206 Steel Reinforcement Bars	131,460.86	13,146.09	77,466.00	29,989.16	328,868.32	3,998.5542
(Note: Rebar quantities were obtained from the structural design and drawings. The amount of rebar was determined by the bar type and spacing in a particular concrete section. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	89,482.33	8,948.23	54,112.98	19,855.55	224,892.52	2,647.4063
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	18,955.43	1,895.54	10,822.60	3,971.11	46,665.90	529.4813
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	10,463.92	1,046.39	6,265.21	3,081.25	26,985.62	410.8333
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	12,559.17	1,255.92	6,265.21	3,081.25	30,324.28	410.8333
903020207 Hydraulic Gates - Steel	36,162.47	3,616.25	20,895.14	8,438.34	90,176.33	1,125.1125
(Note: The surface area of the hydraulic gates was calculated assuming gate dimensions as shown on the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Ironworker	18,253.83	1,825.38	11,038.70	4,050.41	45,876.64	540.0540

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Ironworker	6,444.64	644.46	3,679.57	1,350.14	15,865.91	180.0180
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Oiler	4,585.06	458.51	2,745.27	1,350.14	11,824.49	180.0180
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Heavy	6,878.94	687.89	3,431.59	1,687.67	16,609.28	225.0225
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
903020210 Steel Sheetpile	3,476.10	347.61	1,792.91	853.75	8,322.30	113.8333
(Note: Sheet Pile quantities were obtained from the structural design and drawings. The number of sheets were determined by dividing the total wall length by the width of one sheet (1.5'). See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter	1,526.67	152.67	783.53	365.00	3,651.36	48.6667
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Carpenter	611.78	61.18	295.17	137.50	1,425.09	18.3333
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Oiler	466.95	46.70	279.58	137.50	1,182.93	18.3333
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Heavy	840.68	84.07	419.38	206.25	1,991.48	27.5000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	30.02	3.00	15.25	7.50	71.44	1.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
903020211 Structural Aggregate Backfill	126.55	12.66	60.90	27.00	275.89	4.8000
(Note: The volume of aggregate was calculated as the base material needed for the gated structure work area and the pile caps. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon	18.48	1.85	6.00	0.00	33.01	1.2000
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	108.07	10.81	54.90	27.00	242.88	3.6000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9030203 Riprap	1,643.25	164.33	833.63	409.00	3,690.75	54.9333
(Note: The volume of rip rap and Select granular aggregate was determined by the area shown on the drawings and a specified thickness. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon	6.16	0.62	2.00	0.00	11.00	0.4000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	1,637.09	163.71	831.63	409.00	3,679.75	54.5333
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
904 Hydraulic Structure - Wild Rice River	1,620,061.49	162,006.15	796,358.07	333,906.92	3,465,423.28	58,859.3713
90401 Hydraulic Structure - Wild Rice River - Site work	759,418.55	75,941.85	357,043.17	159,119.56	1,576,776.82	27,470.1649
9040102 Temporary Erosion and Sedimentation Control	45,581.59	4,558.16	11,689.88	0.00	74,943.85	1,632.9600
(Note: Historical projects referenced; 3% of construction cost)						
MIL B-LABORER Laborers, (Semi-Skilled)	42,501.59	4,250.16	10,689.88	0.00	69,757.15	1,432.9600
USR Laborer - ND Cass County Davis Bacon	3,080.00	308.00	1,000.00	0.00	5,186.70	200.0000
(Note: Clay County MN - Davis Bacon Wage Rate)						
9040103 Clearing and Grubbing	10,269.87	1,026.99	4,398.33	1,450.00	19,967.78	483.3333
USR Laborer - ND Cass County Davis Bacon	4,466.00	446.60	1,450.00	0.00	7,520.71	290.0000
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	5,803.87	580.39	2,948.33	1,450.00	12,447.07	193.3333
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9040104 Strip and Stockpile Topsoil	26,290.04	2,629.00	12,698.18	5,672.73	54,944.28	989.0909
USR Laborer - ND Cass County Davis Bacon	3,584.00	358.40	1,163.64	0.00	6,052.21	232.7273
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	22,706.04	2,270.60	11,534.55	5,672.73	48,892.07	756.3636
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9040105 Temporary Haul Roads	93,399.39	9,339.94	44,339.50	21,337.43	196,320.77	3,256.4700
(Note: The volume of class V aggregate base was calculated using a typical temporary haul road cross section and road length (derived from drawing to nearest accessible roadway). Added to this was the volume of base material required to convert the temp haul road to a permanent haul road. (extra thickness). See Consultant Appendix F-Drawings for specific dimensions.)						
MIL B-EQOPRMED Equip. Operators, Medium	16,065.60	1,606.56	6,216.00	3,600.00	32,284.09	480.0000
(Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)						
USR Laborer - ND Cass County Davis Bacon	6,336.79	633.68	2,057.40	0.00	10,758.08	411.4800
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	70,997.00	7,099.70	36,066.10	17,737.43	153,278.61	2,364.9900
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9040106 Coffering - Steel Sheetpile	8,673.32	867.33	4,471.28	2,125.00	20,308.55	283.3333

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Sheet Pile quantities were obtained from the structural design and drawings. The number of sheets were determined by dividing the total wall length by the width of one sheet (1.5'). See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	4,255.86	425.59	2,184.23	1,017.50	9,949.86	135.6667
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,379.29	137.93	665.47	310.00	3,142.74	41.3333
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,052.76	105.28	630.33	310.00	2,612.87	41.3333
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,895.34	189.53	945.50	465.00	4,393.29	62.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	90.06	9.01	45.75	22.50	209.78	3.0000
9040107 Embankment - Temporary Levee	13,839.39	1,383.94	6,820.46	3,171.51	29,236.04	497.2115
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,144.89	114.49	371.72	0.00	1,935.27	74.3432
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	12,694.51	1,269.45	6,448.74	3,171.51	27,300.77	422.8683
9040108 Excavation and Embankment - Channel Realignment	447,126.01	44,712.60	219,266.05	100,979.38	944,917.25	16,252.1775
904010801 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	403,541.18	40,354.12	198,745.22	92,298.27	854,704.07	14,520.8493
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	34,101.96	3,410.20	11,072.06	0.00	57,848.20	2,214.4129
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	369,439.22	36,943.92	187,673.16	92,298.27	796,855.87	12,306.4364
904010802 Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	21,441.54	2,144.15	10,514.82	4,842.53	45,760.48	779.3400
(Note: The volume of Type 2 excavation based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon	2,058.51	205.85	668.35	0.00	3,527.66	133.6693

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	19,383.03	1,938.30	9,846.48	4,842.53	42,232.82	645.6706
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
904010803 Excavation and Embankment - Channel - Type 3 Oxidized Brenna	3,353.89	335.39	1,628.96	735.97	7,091.13	124.6258
(Note: The volume of Type 3 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon	408.04	40.80	132.48	0.00	697.69	26.4961
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	2,945.85	294.59	1,496.48	735.97	6,393.44	98.1296
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
904010804 Excavation and Embankment - Channel - Type 4 Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 4 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
904010805 Excavation and Embankment - Channel	18,789.40	1,878.94	8,377.05	3,102.61	37,361.58	827.3625
USR Laborer - ND Cass County Davis Bacon	6,370.69	637.07	2,068.41	0.00	10,728.19	413.6813
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	12,418.71	1,241.87	6,308.64	3,102.61	26,633.38	413.6813
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9040109 Dewatering and Control of Water	11,592.00	1,159.20	4,003.20	1,800.00	21,956.30	360.0000
(Note: The total cost of Dewatering and Control of Water is estimated to be approximately 2% of the total cost of construction of the structure.)						
MIL B-EQOPRMED Equip. Operators, Medium	8,032.80	803.28	3,108.00	1,800.00	16,142.04	240.0000
(Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)						
MIL B-LABORER Laborers, (Semi-Skilled)	3,559.20	355.92	895.20	0.00	5,814.26	120.0000
9040114 Topsoil Placement	24,072.73	2,407.27	11,818.18	5,454.55	50,594.98	872.7273
USR Laborer - ND Cass County Davis Bacon	2,240.00	224.00	727.27	0.00	3,772.14	145.4545

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	21,832.73	2,183.27	11,090.91	5,454.55	46,822.84	727.2727
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9040115 Site Restoration	26,071.20	2,607.12	12,024.00	5,400.00	53,396.42	1,080.0000
(Note: The area of site restoration was determined calculating the disturbed area from the drawings. See Consultant Appendix F-Drawings for specific areas.)						
USR Laborer - ND Cass County Davis Bacon	5,544.00	554.40	1,800.00	0.00	9,336.05	360.0000
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	10,807.20	1,080.72	5,490.00	2,700.00	23,177.31	360.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Truck Driver - Articulated Truck	9,720.00	972.00	4,734.00	2,700.00	20,883.06	360.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9040116 Miscellaneous Features	5,119.55	511.95	1,523.55	0.00	8,679.93	170.6667
MIL B-EQOPRLT Equip. Operators, Light	88.13	8.81	34.53	0.00	157.89	2.6667
MIL B-LABORER Laborers, (Semi-Skilled)	3,401.01	340.10	855.41	0.00	5,603.26	114.6667
MIL B-TRKDVRLT Truck Drivers, Light	1,630.40	163.04	633.60	0.00	2,918.79	53.3333
9040117 Snow Removal	19,212.80	1,921.28	9,760.00	4,800.00	41,204.10	640.0000
USR Operator - Medium	19,212.80	1,921.28	9,760.00	4,800.00	41,204.10	640.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9040118 Excavation and Embankment - Channel - Lower Bank Protection Riprap Excavation	3,586.28	358.63	1,741.83	786.97	7,582.47	133.2611
901081301 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
901081302 Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	0.00	0.00	0.00	0.00	0.00	0.0000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: The volume of Type 2 excavation based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
901081303 Excavation and Embankment - Channel - Type 3 Oxidized Brenna	3,586.28	358.63	1,741.83	786.97	7,582.47	133.2611
(Note: The volume of Type 3 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	436.31	43.63	141.66	0.00	746.03	28.3320
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	3,149.97	315.00	1,600.17	786.97	6,836.44	104.9290
901081304 Excavation and Embankment - Channel - Type 4 Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 4 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
9040119 Lower Bank Protection	23,483.65	2,348.36	11,929.57	5,867.00	50,363.43	782.2667
(Note: The area of geotextile and volume of rip rap was calculated from the typical cross sections on the drawings and the reach length. See Consultant Appendix F- Drawings for specific dimensions.)						
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	23,483.65	2,348.36	11,929.57	5,867.00	50,363.43	782.2667
9040120 Low Flow Channel Riprap Protection	1,100.73	110.07	559.17	275.00	2,360.65	36.6667
(Note: The area of geotextile and volume of rip rap was calculated from the typical cross sections on the drawings and the reach length. See Consultant Appendix F- Drawings for specific dimensions.)						
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,100.73	110.07	559.17	275.00	2,360.65	36.6667

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
90402 Hydraulic Structure - Wild Rice River - Structure	860,642.95	86,064.29	439,314.90	174,787.36	1,888,646.46	31,389.2064
9040201 Earthwork - Structural	21,855.06	2,185.51	10,701.82	4,914.40	46,080.65	797.0945
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	2,184.35	218.44	709.21	0.00	3,708.56	141.8410
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	19,670.71	1,967.07	9,992.61	4,914.40	42,372.09	655.2534
9040202 Gated Structure	357,009.29	35,700.93	170,042.02	60,288.38	757,194.50	14,652.8644
904020201 HP 14X73 Piling	18,338.87	1,833.89	9,481.08	4,517.58	43,053.09	602.3441
(Note: Pile quantities were obtained from the structural design and drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,951.96	295.20	1,424.23	663.46	6,720.39	88.4615
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	8,124.62	812.46	4,169.79	1,942.45	19,057.71	258.9933
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,634.97	263.50	1,577.67	775.91	6,543.62	103.4540
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	4,514.72	451.47	2,252.19	1,107.64	10,469.12	147.6848
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	112.59	11.26	57.19	28.13	262.25	3.7504
904020202 Concrete - Footing	5,510.60	551.06	2,500.58	912.25	11,408.24	232.5667
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,386.18	138.62	711.43	331.41	3,066.43	44.1882
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	737.28	73.73	355.72	165.71	1,594.32	22.0941
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	844.48	84.45	457.60	208.00	1,902.02	27.7333
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,281.28	128.13	416.00	0.00	2,250.24	83.2000
USR Laborer - ND Cass County Davis Bacon	482.56	48.26	138.67	0.00	826.78	27.7333

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Oiler	281.37	28.14	168.47	82.85	665.67	11.0471
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	497.45	49.74	252.70	124.28	1,102.78	16.5706
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
904020203 Concrete - Piers	236,160.67	23,616.07	102,281.32	32,707.49	476,997.40	10,779.6649
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter	42,248.57	4,224.86	21,683.20	10,100.87	93,547.90	1,346.7826
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Carpenter	20,924.95	2,092.50	10,095.65	4,702.94	45,250.20	627.0588
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Cement Mason / Concrete Finisher	48,841.80	4,884.18	26,466.00	12,030.00	110,006.06	1,604.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Laborer - ND Cass County Davis Bacon	74,145.87	7,414.59	24,073.33	0.00	130,218.71	4,814.6667
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Laborer - ND Cass County Davis Bacon	27,909.60	2,790.96	8,020.00	0.00	47,818.37	1,604.0000
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Oiler	7,951.63	795.16	4,760.99	2,341.47	18,812.35	312.1961
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	14,138.24	1,413.82	7,182.15	3,532.21	31,343.81	470.9608
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
904020204 Concrete - Elevated Deck	2,835.80	283.58	1,226.39	393.67	5,740.65	129.5258
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter	1,062.40	106.24	545.25	254.00	2,350.17	33.8667
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Carpenter	282.53	28.25	136.31	63.50	610.96	8.4667
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Cement Mason / Concrete Finisher	61.76	6.18	31.40	14.27	135.79	1.9032
(Note: Hennepin County MN - Davis Bacon Wage Rate)						

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	57.95	5.80	31.40	14.27	130.53	1.9032
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,157.05	115.70	375.66	0.00	2,047.19	75.1328
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	33.12	3.31	9.52	0.00	56.74	1.9032
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	53.91	5.39	32.28	15.88	127.55	2.1167
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	127.08	12.71	64.56	31.75	281.73	4.2333
904020205 Steel Reinforcement Bars	51,316.93	5,131.69	30,239.55	11,706.54	120,162.03	1,560.8717
(Note: Rebar quantities were obtained from the structural design and drawings. The amount of rebar was determined by the bar type and spacing in a particular concrete section. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	34,930.24	3,493.02	21,123.49	7,750.79	82,194.99	1,033.4389
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	7,399.42	739.94	4,224.70	1,550.16	17,032.55	206.6878
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	4,084.69	408.47	2,445.68	1,202.79	9,880.05	160.3725
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	4,902.59	490.26	2,445.68	1,202.79	11,054.44	160.3725
904020206 Hydraulic Gates - Steel	36,162.47	3,616.25	20,895.14	8,438.34	84,389.28	1,125.1125
(Note: The surface area of the hydraulic gates was calculated assuming gate dimensions as shown on the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	18,253.83	1,825.38	11,038.70	4,050.41	42,953.42	540.0540
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	6,444.64	644.46	3,679.57	1,350.14	14,834.77	180.0180
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	4,585.06	458.51	2,745.27	1,350.14	11,090.35	180.0180
USR Operator - Heavy	6,878.94	687.89	3,431.59	1,687.67	15,510.75	225.0225

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
904020209 Steel Sheetpile	5,863.68	586.37	3,023.22	1,437.50	13,739.81	191.6667
(Note: Sheet Pile quantities were obtained from the structural design and drawings. The number of sheets were determined by dividing the total wall length by the width of one sheet (1.5'). See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,802.39	280.24	1,438.27	670.00	6,556.40	89.3333
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	956.61	95.66	461.53	215.00	2,181.18	28.6667
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	730.14	73.01	437.17	215.00	1,813.32	28.6667
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,314.51	131.45	655.75	322.50	3,049.07	43.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	60.04	6.00	30.50	15.00	139.85	2.0000
904020210 Structural Aggregate Backfill	820.27	82.03	394.73	175.01	1,703.99	31.1120
(Note: The volume of aggregate was calculated as the base material needed for the gated structure work area and the pile caps. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	119.78	11.98	38.89	0.00	201.71	7.7780
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	700.49	70.05	355.84	175.01	1,502.28	23.3340
9040203 Wingwalls	398,639.60	39,863.96	213,844.38	89,453.92	904,828.76	13,243.7244
904020301 HP 14X73 Piling	59,388.69	5,938.87	30,697.46	14,622.41	139,319.15	1,949.6551
(Note: Pile quantities were obtained from the structural design and drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	9,305.61	930.56	4,489.67	2,091.46	21,174.25	278.8615
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	26,874.23	2,687.42	13,792.64	6,425.14	62,996.01	856.6856
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	8,324.55	832.46	4,984.27	2,451.28	20,656.70	326.8376
USR Operator - Heavy	14,253.82	1,425.38	7,110.59	3,497.01	33,023.60	466.2683

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	630.48	63.05	320.28	157.52	1,468.60	21.0021
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
904020302 Concrete - Footing	22,473.76	2,247.38	10,946.85	4,698.50	48,365.06	823.5333
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter	8,520.83	852.08	4,373.14	2,037.18	18,849.22	271.6235
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Carpenter	4,532.04	453.20	2,186.57	1,018.59	9,800.24	135.8118
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Cement Mason / Concrete Finisher	1,500.17	150.02	812.90	369.50	3,378.82	49.2667
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Laborer - ND Cass County Davis Bacon	2,276.12	227.61	739.00	0.00	3,997.42	147.8000
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Laborer - ND Cass County Davis Bacon	857.24	85.72	246.33	0.00	1,468.74	49.2667
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Oiler	1,729.56	172.96	1,035.56	509.29	4,091.88	67.9059
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	3,057.80	305.78	1,553.35	763.94	6,778.74	101.8588
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
904020303 Concrete - Elevated Deck	23,410.53	2,341.05	10,120.49	3,244.75	47,380.96	1,069.8968
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter	8,725.97	872.60	4,478.42	2,086.22	19,303.03	278.1630
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Carpenter	2,320.57	232.06	1,119.61	521.56	5,018.09	69.5407
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Cement Mason / Concrete Finisher	531.76	53.18	270.39	122.90	1,169.19	16.3871
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Cement Mason / Concrete Finisher	498.99	49.90	270.39	122.90	1,123.87	16.3871
(Note: Hennepin County MN - Davis Bacon Wage Rate)						

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	9,561.49	956.15	3,104.38	0.00	16,916.68	620.8762
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	285.14	28.51	81.94	0.00	488.53	16.3871
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	442.80	44.28	265.12	130.39	1,047.60	17.3852
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,043.81	104.38	530.25	260.78	2,313.98	34.7704
904020304 Concrete - Wall	108,425.20	10,842.52	54,193.66	24,461.49	236,810.53	3,740.9982
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	47,937.00	4,793.70	24,602.67	11,460.87	106,131.47	1,528.1159
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	23,950.50	2,395.05	11,555.38	5,382.94	51,792.75	717.7255
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	3,629.64	362.96	1,966.80	894.00	8,175.01	119.2000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	5,548.11	554.81	1,801.33	0.00	9,744.43	360.2667
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	2,074.08	207.41	596.00	0.00	3,553.58	119.2000
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	9,106.27	910.63	5,452.32	2,681.47	21,544.05	357.5294
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	16,179.60	1,617.96	8,219.15	4,042.21	35,869.23	538.9608
904020305 Steel Reinforcement	170,238.35	17,023.83	100,316.43	38,835.17	398,624.47	5,178.0223
(Note: Rebar quantities were obtained from the structural design and drawings. The amount of rebar was determined by the bar type and spacing in a particular concrete section. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	115,877.26	11,587.73	70,074.89	25,712.41	272,672.94	3,428.3213
USR Ironworker	24,546.78	2,454.68	14,014.98	5,142.48	56,503.63	685.6643

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Oiler	13,550.51	1,355.05	8,113.28	3,990.14	32,775.99	532.0183
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Heavy	16,263.80	1,626.38	8,113.28	3,990.14	36,671.91	532.0183
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
904020307 Steel Sheetpile	14,414.31	1,441.43	7,430.54	3,530.00	33,728.75	470.6667
(Note: Sheet Pile quantities were obtained from the structural design and drawings. The number of sheets were determined by dividing the total wall length by the width of one sheet (1.5'). See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter	7,209.87	720.99	3,700.32	1,723.75	16,844.30	229.8333
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Carpenter	2,258.04	225.80	1,089.43	507.50	5,141.79	67.6667
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Oiler	1,723.47	172.35	1,031.92	507.50	4,275.10	67.6667
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Heavy	3,102.86	310.29	1,547.88	761.25	7,187.87	101.5000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	120.08	12.01	61.00	30.00	279.71	4.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
904020308 Structural Aggregate Backfill	288.75	28.87	138.95	61.61	599.83	10.9520
(Note: The volume of aggregate was calculated as the base material needed for the gated structure work area and the pile caps. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon	42.17	4.22	13.69	0.00	71.01	2.7380
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	246.58	24.66	125.26	61.61	528.83	8.2140
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9040204 Riprap	46,976.53	4,697.65	23,831.54	11,692.31	100,680.99	1,570.4107
(Note: The volume of rip rap and Select granular aggregate was determined by the area shown on the drawings and a specified thickness. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon	176.11	17.61	57.18	0.00	296.58	11.4360
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	46,800.42	4,680.04	23,774.36	11,692.31	100,384.42	1,558.9747

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9040205 Fish Passage System	36,162.47	3,616.25	20,895.14	8,438.34	79,861.56	1,125.1125
(Note: The surface area of the hydraulic gates was calculated assuming gate dimensions as shown on the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	18,253.83	1,825.38	11,038.70	4,050.41	40,667.95	540.0540
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	6,444.64	644.46	3,679.57	1,350.14	14,027.87	180.0180
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	4,585.06	458.51	2,745.27	1,350.14	10,516.27	180.0180
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	6,878.94	687.89	3,431.59	1,687.67	14,649.48	225.0225
905 Hydraulic Structure - East Weir (at connecting channel)	10,088.48	1,008.85	5,126.61	2,430.87	22,845.11	339.9741
90501 Earthwork - Structural	2,391.93	239.19	1,171.26	537.86	5,043.30	87.2381
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	239.07	23.91	77.62	0.00	405.88	15.5238
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,152.86	215.29	1,093.64	537.86	4,637.42	71.7143
90502 Steel Sheetpile	6,328.44	632.84	3,261.30	1,552.50	14,869.65	207.0000
(Note: Sheet Pile quantities were obtained from the structural design and drawings. The number of sheets were determined by dividing the total wall length by the width of one sheet (1.5'). See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,917.41	291.74	1,497.30	697.50	6,854.18	93.0000
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,001.10	100.11	483.00	225.00	2,287.39	30.0000
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	764.10	76.41	457.50	225.00	1,901.30	30.0000
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,375.65	137.57	686.25	337.50	3,197.44	45.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	270.18	27.02	137.25	67.50	629.34	9.0000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
90503 Riprap	1,368.11	136.81	694.05	340.52	2,932.16	45.7360
(Note: The volume of rip rap and Select granular aggregate was determined by the area shown on the drawings and a specified thickness. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	5.14	0.51	1.67	0.00	8.66	0.3340
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,362.97	136.30	692.38	340.52	2,923.50	45.4020
906 Hydraulic Structure - Inlet Weir to Diversion	646,833.61	64,683.36	335,176.85	146,913.19	1,438,412.39	21,600.6371
90601 Hydraulic Structure - Inlet Weir to Diversion - Site work	131,869.97	13,187.00	61,371.90	27,323.73	272,930.37	4,759.1091
9060102 Temporary Erosion and Sedimentation Control	4,765.96	476.60	1,225.01	0.00	7,834.20	171.9048
(Note: Historical projects referenced; 3% of construction cost)						
MIL B-LABORER Laborers, (Semi-Skilled)	4,406.63	440.66	1,108.34	0.00	7,229.09	148.5714
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	359.33	35.93	116.67	0.00	605.11	23.3333
9060103 Clearing and Grubbing	354.13	35.41	151.67	50.00	688.54	16.6667
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	154.00	15.40	50.00	0.00	259.33	10.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	200.13	20.01	101.67	50.00	429.21	6.6667
9060104 Strip and Stockpile Topsoil	3,204.32	320.43	1,547.70	691.41	6,696.79	120.5537
(Note: It is assumed that the contractor will strip and salvage 12 inches of topsoil from work areas. Topsoil quantities for suitable topsoil stripping are based on channel and spoil pile plan areas multiplied by the depth of 12 inches. The estimate assumes scraper crews will strip material over the structural excavation areas and dozer crews will stockpile at the edges. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	436.83	43.68	141.83	0.00	737.66	28.3656
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,767.49	276.75	1,405.87	691.41	5,959.13	92.1881
9060108 Embankment - Temporary Levee	3,795.85	379.59	1,873.15	873.21	8,023.31	135.9524
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	300.67	30.07	97.62	0.00	507.99	19.5238
USR Operator - Medium	3,495.19	349.52	1,775.54	873.21	7,515.33	116.4286

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9060109 Excavation and Embankment - Channel Realignment	83,188.50	8,318.85	40,494.16	18,377.66	175,466.87	3,075.6047
902010901 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	35,938.52	3,593.85	17,714.54	8,239.93	76,052.04	1,290.6592
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	2,956.83	295.68	960.01	0.00	5,007.53	192.0017
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	32,981.70	3,298.17	16,754.53	8,239.93	71,044.51	1,098.6575
902010902 Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	6,224.23	622.42	3,052.33	1,405.73	13,286.38	226.2334
(Note: The volume of Type 2 excavation based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	597.56	59.76	194.01	0.00	1,024.29	38.8027
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	5,626.67	562.67	2,858.32	1,405.73	12,262.09	187.4307
902010903 Excavation and Embankment - Channel - Type 3 Oxidized Brenna	30,098.61	3,009.86	14,618.65	6,604.79	63,637.48	1,118.4208
(Note: The volume of Type 3 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	3,661.85	366.19	1,188.91	0.00	6,261.23	237.7825
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	26,436.76	2,643.68	13,429.73	6,604.79	57,376.24	880.6383
902010904 Excavation and Embankment - Channel - Type 4 Brenna	5,910.44	591.04	2,872.01	1,298.83	12,515.58	219.3888
(Note: The volume of Type 4 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon	711.66	71.17	231.06	0.00	1,218.42	46.2114

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	5,198.78	519.88	2,640.95	1,298.83	11,297.16	173.1773
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
902010905 Excavation and Embankment - Channel	5,016.70	501.67	2,236.64	828.38	9,975.39	220.9025
USR Laborer - ND Cass County Davis Bacon	1,700.95	170.09	552.26	0.00	2,864.39	110.4513
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	3,315.75	331.57	1,684.38	828.38	7,111.01	110.4513
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9060110 Dewatering and Control of Water	11,592.00	1,159.20	4,003.20	1,800.00	21,956.30	360.0000
(Note: The total cost of Dewatering and Control of Water is estimated to be approximately 2% of the total cost of construction of the structure.)						
MIL B-EQOPRMED Equip. Operators, Medium	8,032.80	803.28	3,108.00	1,800.00	16,142.04	240.0000
(Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)						
MIL B-LABORER Laborers, (Semi-Skilled)	3,559.20	355.92	895.20	0.00	5,814.26	120.0000
9060115 Topsoil Placement	2,934.06	293.41	1,440.44	664.82	6,166.69	106.3709
USR Laborer - ND Cass County Davis Bacon	273.02	27.30	88.64	0.00	459.76	17.7285
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	2,661.05	266.10	1,351.80	664.82	5,706.92	88.6424
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9060116 Site Restoration	2,896.80	289.68	1,336.00	600.00	5,932.94	120.0000
(Note: The area of site restoration was determined calculating the disturbed area from the drawings. See Consultant Appendix F-Drawings for specific areas.)						
USR Laborer - ND Cass County Davis Bacon	616.00	61.60	200.00	0.00	1,037.34	40.0000
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	1,200.80	120.08	610.00	300.00	2,575.26	40.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Truck Driver - Articulated Truck	1,080.00	108.00	526.00	300.00	2,320.34	40.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9060117 Miscellaneous Features	1,600.95	160.09	475.91	0.00	2,713.08	53.3333
MIL B-EQOPRLT Equip. Operators, Light	44.07	4.41	17.27	0.00	78.94	1.3333
MIL B-LABORER Laborers, (Semi-Skilled)	1,067.76	106.78	268.56	0.00	1,758.50	36.0000
MIL B-TRKDVRLT Truck Drivers, Light	489.12	48.91	190.08	0.00	875.64	16.0000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
9060118 Snow Removal	9,606.40	960.64	4,880.00	2,400.00	20,602.05	320.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	9,606.40	960.64	4,880.00	2,400.00	20,602.05	320.0000
9060119 Earthwork - Structural	3,986.55	398.65	1,952.10	896.43	8,405.50	145.3968
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	398.44	39.84	129.37	0.00	676.47	25.8730
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	3,588.10	358.81	1,822.74	896.43	7,729.03	119.5238
9060120 Excavation and Embankment - Channel - Lower Bank Protection Riprap Excavation	502.15	50.21	243.89	110.19	1,061.69	18.6592
901081301 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
901081302 Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 2 excavation based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
901081303 Excavation and Embankment - Channel - Type 3 Oxidized Brenna	502.15	50.21	243.89	110.19	1,061.69	18.6592
(Note: The volume of Type 3 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon	61.09	6.11	19.84	0.00	104.46	3.9670

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	441.06	44.11	224.05	110.19	957.24	14.6921
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
901081304 Excavation and Embankment - Channel - Type 4 Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 4 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9060121 Lower Bank Protection	3,442.29	344.23	1,748.67	860.00	7,382.40	114.6667
(Note: The area of geotextile and volume of rip rap was calculated from the typical cross sections on the drawings and the reach length. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Operator - Medium	3,442.29	344.23	1,748.67	860.00	7,382.40	114.6667
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9060122 Low Flow Channel Riprap Protection	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The area of geotextile and volume of rip rap was calculated from the typical cross sections on the drawings and the reach length. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Operator - Medium	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
90602 Hydraulic Structure - Inlet Weir Structure	514,963.63	51,496.36	273,804.95	119,589.46	1,165,482.01	16,841.5281
9060201 Concrete Rollway Structure	144,521.69	14,452.17	77,991.82	32,895.92	329,588.02	4,745.9225
906020101 HP 14X73 Piling	27,472.54	2,747.25	14,213.84	6,785.93	64,470.06	904.7905
(Note: Pile quantities were obtained from the structural design and drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter	4,907.44	490.74	2,367.69	1,102.96	11,166.40	147.0615
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Carpenter	10,731.65	1,073.16	5,507.80	2,565.74	25,172.04	342.0991
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Oiler	4,356.63	435.66	2,608.51	1,282.87	10,810.02	171.0495
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Heavy	7,476.82	747.68	3,729.85	1,834.35	17,321.60	244.5803

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
906020102 Concrete - Footing	6,902.27	690.23	3,152.47	1,169.25	14,339.37	287.9000
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,814.29	181.43	931.15	433.76	4,013.46	57.8353
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	964.98	96.50	465.57	216.88	2,086.71	28.9176
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,004.85	100.49	544.50	247.50	2,263.22	33.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,524.60	152.46	495.00	0.00	2,677.57	99.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	574.20	57.42	165.00	0.00	983.79	33.0000
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	368.27	36.83	220.50	108.44	871.26	14.4588
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	651.08	65.11	330.75	162.66	1,443.36	21.6882
906020103 Concrete - Wall	43,964.72	4,396.47	21,880.12	9,788.79	95,833.26	1,531.9722
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	19,922.00	1,992.20	10,224.55	4,762.99	44,154.66	635.0654
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	9,107.39	910.74	4,394.04	2,046.91	19,694.82	272.9216
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,716.36	171.64	930.05	422.75	3,865.76	56.3667
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	2,624.67	262.47	852.17	0.00	4,609.87	170.4333

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	980.78	98.08	281.83	0.00	1,680.40	56.3667
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	3,458.68	345.87	2,070.86	1,018.46	8,182.70	135.7941
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	6,154.84	615.48	3,126.62	1,537.68	13,645.05	205.0245
906020104 Concrete - Elevated Deck	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
906020105 Steel Reinforcement Bars	62,787.36	6,278.74	36,998.73	14,323.20	147,020.80	1,909.7598
(Note: Rebar quantities were obtained from the structural design and drawings. The amount of rebar was determined by the bar type and spacing in a particular concrete section. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	42,737.89	4,273.79	25,845.04	9,483.26	100,567.32	1,264.4345
USR Ironworker	9,053.35	905.34	5,169.01	1,896.65	20,839.69	252.8869

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Oiler	4,997.70	499.77	2,992.34	1,471.64	12,088.45	196.2192
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Heavy	5,998.42	599.84	2,992.34	1,471.64	13,525.35	196.2192
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
906020107 Steel Sheetpile	3,289.33	328.93	1,695.90	806.25	7,705.45	107.5000
(Note: Sheet Pile quantities were obtained from the structural design and drawings. The number of sheets were determined by dividing the total wall length by the width of one sheet (1.5'). See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter	1,584.19	158.42	813.05	378.75	3,705.15	50.5000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Carpenter	533.92	53.39	257.60	120.00	1,217.11	16.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Oiler	407.52	40.75	244.00	120.00	1,011.87	16.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Heavy	733.68	73.37	366.00	180.00	1,701.40	24.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	30.02	3.00	15.25	7.50	69.93	1.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
906020108 Structural Aggregate Backfill	105.46	10.55	50.75	22.50	219.08	4.0000
(Note: The volume of aggregate was calculated as the base material needed for the gated structure work area and the pile caps. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon	15.40	1.54	5.00	0.00	25.93	1.0000
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	90.06	9.01	45.75	22.50	193.14	3.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9060202 Walls	365,512.20	36,551.22	193,312.24	85,466.54	825,328.45	11,930.8056
906020201 HP 14X73 Piling	36,101.71	3,610.17	18,682.54	8,919.58	84,727.44	1,189.2772
(Note: Pile quantities were obtained from the structural design and drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter	6,378.80	637.88	3,077.58	1,433.65	14,513.58	191.1538
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Carpenter	14,156.44	1,415.64	7,265.50	3,384.55	33,206.06	451.2732

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Oiler	5,746.96	574.70	3,440.96	1,692.27	14,259.69	225.6366
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Heavy	9,819.50	981.95	4,898.51	2,409.10	22,748.11	321.2135
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
906020202 Concrete - Footing	6,902.27	690.23	3,152.47	1,169.25	14,339.37	287.9000
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter	1,814.29	181.43	931.15	433.76	4,013.46	57.8353
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Carpenter	964.98	96.50	465.57	216.88	2,086.71	28.9176
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Cement Mason / Concrete Finisher	1,004.85	100.49	544.50	247.50	2,263.22	33.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Laborer - ND Cass County Davis Bacon	1,524.60	152.46	495.00	0.00	2,677.57	99.0000
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Laborer - ND Cass County Davis Bacon	574.20	57.42	165.00	0.00	983.79	33.0000
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Oiler	368.27	36.83	220.50	108.44	871.26	14.4588
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	651.08	65.11	330.75	162.66	1,443.36	21.6882
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
906020203 Concrete - Elevated Deck	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Carpenter	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
906020204 Concrete - Wall	205,799.61	20,579.96	104,353.24	48,384.17	453,067.88	6,853.8889
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	95,272.74	9,527.27	48,896.75	22,777.99	210,842.53	3,037.0654
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	49,162.52	4,916.25	23,719.40	11,049.41	106,312.12	1,473.2549
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	3,045.00	304.50	1,650.00	750.00	6,858.23	100.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	4,661.07	466.11	1,513.33	0.00	8,186.58	302.6667
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,740.00	174.00	500.00	0.00	2,981.20	100.0000
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	18,727.94	1,872.79	11,213.24	5,514.71	44,307.43	735.2941
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	33,190.35	3,319.03	16,860.52	8,292.06	73,579.79	1,105.6078
906020205 Steel Reinforcement	94,395.83	9,439.58	55,624.67	21,533.80	221,034.15	2,871.1728

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Rebar quantities were obtained from the structural design and drawings. The amount of rebar was determined by the bar type and spacing in a particular concrete section. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	64,253.03	6,425.30	38,855.98	14,257.33	151,195.01	1,900.9773
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	13,611.00	1,361.10	7,771.20	2,851.47	31,330.82	380.1955
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	7,513.65	751.37	4,498.75	2,212.50	18,174.03	295.0000
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	9,018.15	901.82	4,498.75	2,212.50	20,334.29	295.0000
906020207 Steel Sheetpile	22,249.50	2,224.95	11,468.87	5,446.25	52,028.16	726.1667
(Note: Sheet Pile quantities were obtained from the structural design and drawings. The number of sheets were determined by dividing the total wall length by the width of one sheet (1.5'). See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	11,350.71	1,135.07	5,825.52	2,713.75	26,501.08	361.8333
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	3,425.99	342.60	1,652.93	770.00	7,796.25	102.6667
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,614.92	261.49	1,565.67	770.00	6,482.47	102.6667
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	4,707.78	470.78	2,348.50	1,155.00	10,898.74	154.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	150.10	15.01	76.25	37.50	349.63	5.0000
906020208 Structural Aggregate Backfill	63.28	6.33	30.45	13.50	131.45	2.4000
(Note: The volume of aggregate was calculated as the base material needed for the gated structure work area and the pile caps. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	9.24	0.92	3.00	0.00	15.56	0.6000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	54.04	5.40	27.45	13.50	115.89	1.8000
9060203 Riprap	4,929.75	492.98	2,500.90	1,227.00	10,565.54	164.8000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: The volume of rip rap and Select granular aggregate was determined by the area shown on the drawings and a specified thickness. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	18.48	1.85	6.00	0.00	31.12	1.2000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	4,911.27	491.13	2,494.90	1,227.00	10,534.42	163.6000
907 Hydraulic Structure - Sheyenne River	4,157,722.60	415,772.26	2,137,393.40	913,383.29	9,132,025.47	144,314.6727
90701 Hydraulic Structure - Sheyenne River - Site work	1,623,752.91	162,375.29	772,852.00	343,070.90	3,400,049.01	60,419.8395
9070102 Temporary Erosion and Sedimentation Control (Note: Historical projects referenced; 3% of construction cost)	42,661.47	4,266.15	10,980.45	0.00	70,107.51	1,545.1881
MIL B-LABORER Laborers, (Semi-Skilled)	39,239.33	3,923.93	9,869.37	0.00	64,344.66	1,322.9714
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	3,422.14	342.21	1,111.08	0.00	5,762.85	222.2167
9070103 Clearing and Grubbing	5,312.00	531.20	2,275.00	750.00	10,328.16	250.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	2,310.00	231.00	750.00	0.00	3,890.02	150.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	3,002.00	300.20	1,525.00	750.00	6,438.14	100.0000
9070104 Strip and Stockpile Topsoil	35,263.04	3,526.30	17,032.18	7,608.88	73,697.22	1,326.6759
(Note: It is assumed that the contractor will strip and salvage 12 inches of topsoil from work areas. Topsoil quantities for suitable topsoil stripping are based on channel and spoil pile plan areas multiplied by the depth of 12 inches. The estimate assumes scraper crews will strip material over the structural excavation areas and dozer crews will stockpile at the edges. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	4,807.25	480.72	1,560.80	0.00	8,117.88	312.1590
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	30,455.80	3,045.58	15,471.38	7,608.88	65,579.34	1,014.5168
9070105 Temporary Haul Roads	60,209.38	6,020.94	27,979.44	13,727.27	125,926.20	2,064.5693
(Note: The volume of class V aggregate base was calculated using a typical temporary haul road cross section and road length (derived from drawing to nearest accessible roadway). Added to this was the volume of base material required to convert the temp haul road to a permanent haul road. (extra thickness). See Consultant Appendix F-Drawings for specific dimensions.)						
MIL B-EQOPRMEQ Equip. Operators, Medium (Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)	16,065.60	1,606.56	6,216.00	3,600.00	32,284.09	480.0000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	3,607.72	360.77	1,171.34	0.00	6,125.18	234.2673
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	40,536.07	4,053.61	20,592.11	10,127.27	87,516.94	1,350.3020
9070106 Coffering - Steel Sheetpile	9,510.01	951.00	4,902.99	2,330.00	22,262.37	310.6667
(Note: Sheet Pile quantities were obtained from the structural design and drawings. The number of sheets were determined by dividing the total wall length by the width of one sheet (1.5'). See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	4,668.90	466.89	2,396.22	1,116.25	10,911.26	148.8333
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,523.90	152.39	735.23	342.50	3,471.70	45.6667
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,163.13	116.31	696.42	342.50	2,886.40	45.6667
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,094.05	209.40	1,044.63	513.75	4,853.16	68.5000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	60.04	6.00	30.50	15.00	139.85	2.0000
9070108 Embankment - Temporary Levee	24,230.96	2,423.10	11,941.72	5,552.90	51,188.46	870.5520
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	2,004.54	200.45	650.83	0.00	3,388.40	130.1652
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	22,226.41	2,222.64	11,290.90	5,552.90	47,800.07	740.3868
9070109 Excavation and Embankment - Channel Realignment	1,317,079.18	131,707.92	636,940.67	285,264.64	2,778,357.89	49,415.7991
907010901 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	462,428.65	46,242.87	226,548.72	104,133.36	984,815.74	16,846.6246
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	45,617.52	4,561.75	14,810.88	0.00	78,052.75	2,962.1764
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	416,811.14	41,681.11	211,737.84	104,133.36	906,762.99	13,884.4482

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
907010902 Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	111,296.59	11,129.66	54,579.29	25,136.12	237,528.87	4,045.3195
(Note: The volume of Type 2 excavation based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	10,685.09	1,068.51	3,469.19	0.00	18,311.01	693.8373
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	100,611.49	10,061.15	51,110.10	25,136.12	219,217.86	3,351.4821
907010903 Excavation and Embankment - Channel - Type 3 Oxidized Brenna	271,147.94	27,114.79	131,694.31	59,500.23	573,287.88	10,075.4643
(Note: The volume of Type 3 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	32,988.34	3,298.83	10,710.50	0.00	56,405.25	2,142.0998
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	238,159.60	23,815.96	120,983.81	59,500.23	516,882.63	7,933.3645
907010904 Excavation and Embankment - Channel - Type 4 Brenna	339,061.31	33,906.13	164,757.28	74,509.35	717,975.31	12,585.5682
(Note: The volume of Type 4 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	40,825.22	4,082.52	13,254.94	0.00	69,896.50	2,650.9886
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	298,236.08	29,823.61	151,502.34	74,509.35	648,078.82	9,934.5797
907010905 Excavation and Embankment - Channel	133,144.70	13,314.47	59,361.08	21,985.58	264,750.08	5,862.8225
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	45,143.73	4,514.37	14,657.06	0.00	76,021.69	2,931.4113
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	88,000.97	8,800.10	44,704.02	21,985.58	188,728.38	2,931.4113
9070110 Dewatering and Control of Water	11,592.00	1,159.20	4,003.20	1,800.00	21,956.30	360.0000
(Note: The total cost of Dewatering and Control of Water is estimated to be approximately 2% of the total cost of construction of the structure.)						

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
MIL B-EQOPRMED Equip. Operators, Medium (Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)	8,032.80	803.28	3,108.00	1,800.00	16,142.04	240.0000
MIL B-LABORER Laborers, (Semi-Skilled)	3,559.20	355.92	895.20	0.00	5,814.26	120.0000
9070115 Topsoil Placement	32,288.95	3,228.89	15,851.83	7,316.23	67,863.47	1,170.5964
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	3,004.53	300.45	975.50	0.00	5,059.61	195.0994
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	29,284.42	2,928.44	14,876.33	7,316.23	62,803.87	975.4970
9070116 Site Restoration (Note: The area of site restoration was determined calculating the disturbed area from the drawings. See Consultant Appendix F-Drawings for specific areas.)	28,968.00	2,896.80	13,360.00	6,000.00	59,329.36	1,200.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	6,160.00	616.00	2,000.00	0.00	10,373.39	400.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	12,008.00	1,200.80	6,100.00	3,000.00	25,752.56	400.0000
USR Truck Driver - Articulated Truck (Note: Hennepin County MN - Davis Bacon Wage Rate)	10,800.00	1,080.00	5,260.00	3,000.00	23,203.40	400.0000
9070117 Miscellaneous Features	5,119.55	511.95	1,523.55	0.00	8,679.93	170.6667
MIL B-EQOPRLT Equip. Operators, Light	88.13	8.81	34.53	0.00	157.89	2.6667
MIL B-LABORER Laborers, (Semi-Skilled)	3,401.01	340.10	855.41	0.00	5,603.26	114.6667
MIL B-TRKDVRLT Truck Drivers, Light	1,630.40	163.04	633.60	0.00	2,918.79	53.3333
9070118 Snow Removal	19,212.80	1,921.28	9,760.00	4,800.00	41,204.10	640.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	19,212.80	1,921.28	9,760.00	4,800.00	41,204.10	640.0000
9070119 Excavation and Embankment - Channel - Lower Bank Protection Riprap Excavation	4,987.37	498.74	2,423.47	1,095.98	10,560.94	185.1254
907011901 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
907011902 Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 2 excavation based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
907011903 Excavation and Embankment - Channel - Type 3 Oxidized Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 3 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
907011904 Excavation and Embankment - Channel - Type 4 Brenna	4,987.37	498.74	2,423.47	1,095.98	10,560.94	185.1254
(Note: The volume of Type 4 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	600.51	60.05	194.97	0.00	1,028.13	38.9943
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	4,386.86	438.69	2,228.50	1,095.98	9,532.81	146.1311
9070120 Lower Bank Protection	26,093.38	2,609.34	13,255.30	6,519.00	55,960.32	869.2000
(Note: The area of geotextile and volume of rip rap was calculated from the typical cross sections on the drawings and the reach length. See Consultant Appendix F- Drawings for specific dimensions.)						
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	26,093.38	2,609.34	13,255.30	6,519.00	55,960.32	869.2000
9070121 Low Flow Channel Riprap Protection	1,224.82	122.48	622.20	306.00	2,626.76	40.8000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: The area of geotextile and volume of rip rap was calculated from the typical cross sections on the drawings and the reach length. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,224.82	122.48	622.20	306.00	2,626.76	40.8000
90702 Hydraulic Structure -Sheyenne River - Structure	2,354,080.23	235,408.02	1,272,420.61	527,345.79	5,333,678.76	77,837.1665
9070201 Earthwork - Structural	19,610.63	1,961.06	9,602.79	4,409.71	41,348.35	715.2361
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,960.03	196.00	636.37	0.00	3,327.70	127.2745
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	17,650.60	1,765.06	8,966.41	4,409.71	38,020.65	587.9615
9070202 Aqueduct Structure and Wingwalls	2,289,280.21	228,928.02	1,239,892.90	511,688.57	5,195,479.65	75,611.2638
907020201 HP 14X73 Piling	204,349.35	20,434.94	105,682.38	50,389.49	479,386.52	6,718.5989
(Note: Pile quantities were obtained from the structural design and drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	33,958.34	3,395.83	16,383.86	7,632.23	77,266.52	1,017.6308
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	87,052.23	8,705.22	44,677.75	20,812.61	204,033.02	2,775.0153
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	30,424.99	3,042.50	18,216.77	8,959.07	75,492.73	1,194.5423
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	52,071.64	5,207.16	25,976.20	12,775.18	120,632.63	1,703.3577
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	842.15	84.21	427.81	210.40	1,961.63	28.0528
907020202 Concrete - Footing	104,982.54	10,498.25	50,200.91	20,726.25	223,631.78	4,003.1000
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	36,220.91	3,622.09	18,589.63	8,659.76	80,125.53	1,154.6353
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	19,265.09	1,926.51	9,294.81	4,329.88	41,659.52	577.3176
USR Cement Mason / Concrete Finisher	9,436.46	943.65	5,113.35	2,324.25	21,253.66	309.9000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	14,317.38	1,431.74	4,648.50	0.00	25,144.79	929.7000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	5,392.26	539.23	1,549.50	0.00	9,238.72	309.9000
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	7,352.14	735.21	4,402.05	2,164.94	17,394.03	288.6588
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	12,998.31	1,299.83	6,603.07	3,247.41	28,815.52	432.9882
907020203 Concrete - Wall	554,535.83	55,453.58	281,164.88	130,365.83	1,220,612.80	18,474.6445
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	253,800.44	25,380.04	130,257.80	60,679.10	561,510.62	8,090.5464
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	133,773.13	13,377.31	64,541.43	30,065.88	289,277.16	4,008.7843
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	8,296.61	829.66	4,495.70	2,043.50	18,686.40	272.4667
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	12,629.03	1,262.90	4,100.33	0.00	22,180.24	820.0667
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	4,740.92	474.09	1,362.33	0.00	8,122.76	272.4667
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	51,017.91	5,101.79	30,546.65	15,022.94	120,700.54	2,003.0588
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	90,277.79	9,027.78	45,860.64	22,554.41	200,135.08	3,007.2549
907020204 Concrete - Piers	172,256.64	17,225.66	78,425.98	28,839.67	357,373.29	7,223.9556
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	46,695.62	4,669.56	23,965.56	11,164.08	103,432.98	1,488.5438

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	22,445.58	2,244.56	10,829.30	5,044.71	48,538.46	672.6275
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	25,699.80	2,569.98	13,926.00	6,330.00	57,883.49	844.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	39,033.87	3,903.39	12,673.33	0.00	68,553.54	2,534.6667
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	14,685.60	1,468.56	4,220.00	0.00	25,161.29	844.0000
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	8,531.95	853.20	5,108.45	2,512.35	20,185.28	334.9804
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	15,164.22	1,516.42	7,703.34	3,788.53	33,618.26	505.1373
907020205 Concrete - Elevated Deck	59,222.53	5,922.25	25,484.92	8,048.87	119,547.50	2,725.5806
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	20,699.55	2,069.96	10,623.61	4,948.89	45,790.20	659.8519
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	5,504.81	550.48	2,655.90	1,237.22	11,903.81	164.9630
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,022.37	202.24	1,028.32	467.42	4,446.60	62.3226
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,897.72	189.77	1,028.32	467.42	4,274.23	62.3226
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	24,487.17	2,448.72	7,950.38	0.00	43,300.45	1,590.0759
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,084.41	108.44	311.61	0.00	1,857.96	62.3226
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,050.40	105.04	628.92	309.31	2,485.09	41.2407
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,476.09	247.61	1,257.84	618.61	5,489.17	82.4815

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
907020206 Steel Reinforcement Bars	1,132,463.59	113,246.36	667,327.31	258,340.22	2,651,739.17	34,445.3628
(Note: Rebar quantities were obtained from the structural design and drawings. The amount of rebar was determined by the bar type and spacing in a particular concrete section. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	770,841.47	77,084.15	466,153.84	171,044.71	1,813,881.42	22,805.9607
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	163,290.68	16,329.07	93,230.77	34,208.94	375,874.80	4,561.1921
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	90,141.00	9,014.10	53,971.35	26,543.29	218,033.19	3,539.1050
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	108,190.44	10,819.04	53,971.35	26,543.29	243,949.76	3,539.1050
907020208 Steel Sheetpile	59,052.37	5,905.24	30,443.23	14,462.50	138,166.89	1,928.3333
(Note: Sheet Pile quantities were obtained from the structural design and drawings. The number of sheets were determined by dividing the total wall length by the width of one sheet (1.5'). See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	29,477.34	2,947.73	15,128.63	7,047.50	68,854.00	939.6667
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	9,321.35	932.14	4,497.27	2,095.00	21,225.07	279.3333
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	7,114.62	711.46	4,259.83	2,095.00	17,647.44	279.3333
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	12,808.83	1,280.88	6,389.75	3,142.50	29,671.19	419.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	330.22	33.02	167.75	82.50	769.19	11.0000
907020209 Structural Aggregate Backfill	2,417.35	241.74	1,163.29	515.75	5,021.70	91.6880
(Note: The volume of aggregate was calculated as the base material needed for the gated structure work area and the pile caps. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	353.00	35.30	114.61	0.00	594.45	22.9220
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,064.36	206.44	1,048.68	515.75	4,427.25	68.7660

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
9070203 Riprap	45,189.39	4,518.94	22,924.92	11,247.50	96,850.77	1,510.6667
(Note: The volume of rip rap and Select granular aggregate was determined by the area shown on the drawings and a specified thickness. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	169.40	16.94	55.00	0.00	285.27	11.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	45,019.99	4,502.00	22,869.92	11,247.50	96,565.50	1,499.6667
90703 Hydraulic Structure -Sheyenne River - Weir to Diversion	179,889.45	17,988.94	92,120.79	42,966.61	398,297.70	6,057.6667
9070301 Earthwork - Structural	22,856.48	2,285.65	11,192.19	5,139.58	48,192.11	833.6182
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	2,284.44	228.44	741.70	0.00	3,878.49	148.3403
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	20,572.04	2,057.20	10,450.49	5,139.58	44,313.62	685.2778
9070302 Steel Sheetpile	54,115.68	5,411.57	27,834.60	13,216.88	126,898.70	1,762.2500
(Note: Sheet Pile quantities were obtained from the structural design and drawings. The number of sheets were determined by dividing the total wall length by the width of one sheet (1.5'). See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	29,762.29	2,976.23	15,274.88	7,115.63	69,891.21	948.7500
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	6,039.97	604.00	2,914.10	1,357.50	13,755.28	181.0000
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	4,610.07	461.01	2,760.25	1,357.50	11,436.59	181.0000
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	8,299.76	829.98	4,140.38	2,036.25	19,228.89	271.5000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	5,403.60	540.36	2,745.00	1,350.00	12,586.73	180.0000
9070303 Riprap	78,510.51	7,851.05	39,828.97	19,541.02	168,265.22	2,624.5813
(Note: The volume of rip rap and Select granular aggregate was determined by the area shown on the drawings and a specified thickness. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	294.32	29.43	95.56	0.00	495.64	19.1120

<u>Description</u>	<u>BaseWage</u>	<u>Overtime</u>	<u>TaxableFringe</u>	<u>Subsistence</u>	<u>Total</u>	<u>ManHours</u>
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	78,216.19	7,821.62	39,733.41	19,541.02	167,769.58	2,605.4693
9070304 Concrete - Wall	8,407.48	840.75	3,837.12	1,419.33	17,478.26	350.5778
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,522.19	252.22	1,294.46	603.01	5,597.83	80.4013
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,025.96	102.60	495.00	230.59	2,219.25	30.7451
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,218.00	121.80	660.00	300.00	2,743.29	40.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,868.53	186.85	606.67	0.00	3,281.90	121.3333
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	696.00	69.60	200.00	0.00	1,192.48	40.0000
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	374.56	37.46	224.26	110.29	886.15	14.7059
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	702.23	70.22	356.73	175.44	1,557.36	23.3922
9070305 Steel Reinforcement Bars	15,999.29	1,599.93	9,427.91	3,649.80	37,463.41	486.6395
(Note: Rebar quantities were obtained from the structural design and drawings. The amount of rebar was determined by the bar type and spacing in a particular concrete section. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	10,890.34	1,089.03	6,585.76	2,416.50	25,626.27	322.1995
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,306.95	230.69	1,317.15	483.30	5,310.31	64.4399
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,273.50	127.35	762.50	375.00	3,080.34	50.0000
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,528.50	152.85	762.50	375.00	3,446.49	50.0000
908 Hydraulic Structure - Drain 14 - Large Drain Structure	675,572.50	67,557.25	364,844.07	157,198.39	1,547,887.13	21,902.6271

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
90801 Earthwork - Structural	797.31	79.73	390.42	179.29	1,681.10	29.0794
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	79.69	7.97	25.87	0.00	135.29	5.1746
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	717.62	71.76	364.55	179.29	1,545.81	23.9048
90803 HP 14X73 Piling	188,891.83	18,889.18	97,670.68	46,558.01	443,201.91	6,207.7345
(Note: Pile quantities were obtained from the structural design and drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	30,443.71	3,044.37	14,688.15	6,842.31	69,266.12	912.3077
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	82,199.31	8,219.93	42,187.09	19,652.37	192,762.29	2,620.3161
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	27,436.93	2,743.69	16,427.68	8,079.19	68,075.19	1,077.2252
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	46,875.40	4,687.54	23,384.03	11,500.34	108,587.62	1,533.3791
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,936.48	193.65	983.72	483.80	4,510.69	64.5065
90804 Concrete - Footing	52,764.88	5,276.49	25,103.33	10,250.00	112,084.46	2,033.3333
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	17,714.82	1,771.48	9,091.76	4,235.29	39,187.58	564.7059
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	9,422.12	942.21	4,545.88	2,117.65	20,374.73	282.3529
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	5,075.00	507.50	2,750.00	1,250.00	11,430.39	166.6667
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	7,700.00	770.00	2,500.00	0.00	13,523.06	500.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	2,900.00	290.00	833.33	0.00	4,968.66	166.6667
USR Oiler	3,595.76	359.58	2,152.94	1,058.82	8,507.03	141.1765

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	6,357.18	635.72	3,229.41	1,588.24	14,093.02	211.7647
90805 Concrete - Wall	162,144.54	16,214.45	82,362.20	38,313.67	357,286.65	5,376.4889
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	75,040.07	7,504.01	38,512.76	17,940.73	166,033.68	2,392.0967
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	39,303.32	3,930.33	18,962.64	8,833.53	84,991.57	1,177.8039
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,030.00	203.00	1,100.00	500.00	4,572.16	66.6667
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	3,100.53	310.05	1,006.67	0.00	5,445.60	201.3333
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,160.00	116.00	333.33	0.00	1,987.46	66.6667
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	14,982.35	1,498.24	8,970.59	4,411.76	35,445.95	588.2353
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	26,528.26	2,652.83	13,476.22	6,627.65	58,810.23	883.6863
90806 Steel Reinforcement Bars	266,654.89	26,665.49	157,131.84	60,829.93	624,390.25	8,110.6576
(Note: Rebar quantities were obtained from the structural design and drawings. The amount of rebar was determined by the bar type and spacing in a particular concrete section. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	181,505.75	18,150.57	109,762.65	40,274.94	427,104.55	5,369.9925
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	38,449.15	3,844.91	21,952.53	8,054.99	88,505.15	1,073.9985
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	21,225.00	2,122.50	12,708.33	6,250.00	51,339.06	833.3333
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	25,475.00	2,547.50	12,708.33	6,250.00	57,441.49	833.3333

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
90808 Steel Sheetpile	0.00	0.00	0.00	0.00	0.00	0.0000
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
90809 Structural Aggregate Backfill	210.92	21.09	101.50	45.00	438.16	8.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	30.80	3.08	10.00	0.00	51.87	2.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	180.12	18.01	91.50	45.00	386.29	6.0000
90810 Riprap	4,108.13	410.81	2,084.08	1,022.50	8,804.62	137.3333
(Note: The volume of rip rap and Select granular aggregate was determined by the area shown on the drawings and a specified thickness. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	15.40	1.54	5.00	0.00	25.93	1.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	4,092.73	409.27	2,079.08	1,022.50	8,778.68	136.3333
909 Hydraulic Structure - Maple River	3,582,081.13	358,208.11	1,861,801.30	790,728.56	7,928,902.86	122,304.8785
90901 Hydraulic Structure - Maple River - Site work	1,081,939.95	108,194.00	509,309.86	224,350.68	2,254,418.80	40,083.9886
9090102 Temporary Erosion and Sedimentation Control	49,331.88	4,933.19	12,695.73	0.00	81,070.71	1,786.1100
(Note: Historical projects referenced; 3% of construction cost)						
MIL B-LABORER Laborers, (Semi-Skilled)	45,396.41	4,539.64	11,417.98	0.00	74,443.41	1,530.5600
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	3,935.47	393.55	1,277.75	0.00	6,627.30	255.5500
9090103 Clearing and Grubbing	5,312.00	531.20	2,275.00	750.00	10,328.16	250.0000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	2,310.00	231.00	750.00	0.00	3,890.02	150.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	3,002.00	300.20	1,525.00	750.00	6,438.14	100.0000
9090104 Strip and Stockpile Topsoil	40,268.01	4,026.80	19,449.59	8,688.82	84,157.24	1,514.9741
(Note: It is assumed that the contractor will strip and salvage 12 inches of topsoil from work areas. Topsoil quantities for suitable topsoil stripping are based on channel and spoil pile plan areas multiplied by the depth of 12 inches. The estimate assumes scraper crews will strip material over the structural excavation areas and dozer crews will stockpile at the edges. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	5,489.55	548.96	1,782.32	0.00	9,270.07	356.4645
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	34,778.46	3,477.85	17,667.27	8,688.82	74,887.16	1,158.5096
9090105 Temporary Haul Roads	34,817.53	3,481.75	15,446.39	7,882.16	72,008.27	1,155.6220
(Note: The volume of class V aggregate base was calculated using a typical temporary haul road cross section and road length (derived from drawing to nearest accessible roadway). Added to this was the volume of base material required to convert the temp haul road to a permanent haul road. (extra thickness). See Consultant Appendix F-Drawings for specific dimensions.)						
MIL B-EQOPRMED Equip. Operators, Medium (Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)	16,065.60	1,606.56	6,216.00	3,600.00	32,284.09	480.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,611.89	161.19	523.34	0.00	2,734.17	104.6680
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	17,140.04	1,714.00	8,707.05	4,282.16	36,990.02	570.9540
9090106 Coffering - Steel Sheetpile	9,695.53	969.55	4,997.89	2,375.00	22,699.56	316.6667
(Note: Sheet Pile quantities were obtained from the structural design and drawings. The number of sheets were determined by dividing the total wall length by the width of one sheet (1.5'). See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	4,794.38	479.44	2,460.62	1,146.25	11,208.59	152.8333
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,523.90	152.39	735.23	342.50	3,471.70	45.6667
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,163.13	116.31	696.42	342.50	2,886.40	45.6667
USR Operator - Heavy	2,094.05	209.40	1,044.63	513.75	4,853.16	68.5000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	120.08	12.01	61.00	30.00	279.71	4.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9090107 Embankment - Temporary Levee	8,388.18	838.82	4,133.94	1,922.28	17,720.22	301.3643
USR Laborer - ND Cass County Davis Bacon	693.93	69.39	225.30	0.00	1,172.98	45.0601
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	7,694.25	769.43	3,908.64	1,922.28	16,547.24	256.3042
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9090108 Excavation and Embankment - Channel Realignment	796,714.79	79,671.48	385,746.12	173,178.44	1,681,858.54	29,813.7849
905010901 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	467,541.02	46,754.10	229,083.20	105,325.33	995,569.07	17,027.7177
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon	45,958.85	4,595.88	14,921.70	0.00	78,622.46	2,984.3407
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	421,582.18	42,158.22	214,161.50	105,325.33	916,946.61	14,043.3770
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
905010902 Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	92,778.74	9,277.87	45,498.23	20,953.90	198,008.13	3,372.2475
(Note: The volume of Type 2 excavation based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon	8,907.28	890.73	2,891.97	0.00	15,264.37	578.3947
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	83,871.46	8,387.15	42,606.26	20,953.90	182,743.76	2,793.8528
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
905010903 Excavation and Embankment - Channel - Type 3 Oxidized Brenna	144,797.76	14,479.78	70,327.07	31,774.17	306,145.79	5,380.4747
(Note: The volume of Type 3 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon	17,616.35	1,761.64	5,719.59	0.00	30,121.40	1,143.9189
(Note: Clay County MN - Davis Bacon Wage Rate)						

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	127,181.41	12,718.14	64,607.48	31,774.17	276,024.39	4,236.5559
905010904 Excavation and Embankment - Channel - Type 4 Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 4 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
905010905 Excavation and Embankment - Channel	91,597.26	9,159.73	40,837.62	15,125.04	182,135.55	4,033.3450
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	31,056.76	3,105.68	10,083.36	0.00	52,299.33	2,016.6725
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	60,540.51	6,054.05	30,754.26	15,125.04	129,836.22	2,016.6725
9090109 Dewatering and Control of Water	11,592.00	1,159.20	4,003.20	1,800.00	21,956.30	360.0000
(Note: The total cost of Dewatering and Control of Water is estimated to be approximately 2% of the total cost of construction of the structure.)						
MIL B-EQOPRMEQ Equip. Operators, Medium (Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)	8,032.80	803.28	3,108.00	1,800.00	16,142.04	240.0000
MIL B-LABORER Laborers, (Semi-Skilled)	3,559.20	355.92	895.20	0.00	5,814.26	120.0000
9090114 Topsoil Placement	36,871.80	3,687.18	18,101.71	8,354.64	77,495.49	1,336.7418
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	3,430.97	343.10	1,113.95	0.00	5,777.73	222.7903
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	33,440.82	3,344.08	16,987.76	8,354.64	71,717.77	1,113.9515
9090115 Site Restoration	33,313.20	3,331.32	15,364.00	6,900.00	68,228.76	1,380.0000
(Note: The area of site restoration was determined calculating the disturbed area from the drawings. See Consultant Appendix F-Drawings for specific areas.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	7,084.00	708.40	2,300.00	0.00	11,929.40	460.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	13,809.20	1,380.92	7,015.00	3,450.00	29,615.45	460.0000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Truck Driver - Articulated Truck (Note: Hennepin County MN - Davis Bacon Wage Rate)	12,420.00	1,242.00	6,049.00	3,450.00	26,683.91	460.0000
9090116 Miscellaneous Features	5,119.55	511.95	1,523.55	0.00	8,679.93	170.6667
MIL B-EQOPRLT Equip. Operators, Light	88.13	8.81	34.53	0.00	157.89	2.6667
MIL B-LABORER Laborers, (Semi-Skilled)	3,401.01	340.10	855.41	0.00	5,603.26	114.6667
MIL B-TRKDVRLT Truck Drivers, Light	1,630.40	163.04	633.60	0.00	2,918.79	53.3333
9090117 Snow Removal	19,212.80	1,921.28	9,760.00	4,800.00	41,204.10	640.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	19,212.80	1,921.28	9,760.00	4,800.00	41,204.10	640.0000
9090118 Excavation and Embankment - Channel - Lower Bank Protection Riprap Excavation	3,984.50	398.45	1,935.24	874.35	8,424.42	148.0582
901081301 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
901081302 Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 2 excavation based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
901081303 Excavation and Embankment - Channel - Type 3 Oxidized Brenna	3,984.50	398.45	1,935.24	874.35	8,424.42	148.0582
(Note: The volume of Type 3 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	484.76	48.48	157.39	0.00	828.87	31.4780
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	3,499.74	349.97	1,777.85	874.35	7,595.55	116.5802
901081304 Excavation and Embankment - Channel - Type 4 Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 4 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
9090119 Lower Bank Protection	26,093.38	2,609.34	13,255.30	6,519.00	55,960.32	869.2000
(Note: The area of geotextile and volume of rip rap was calculated from the typical cross sections on the drawings and the reach length. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	26,093.38	2,609.34	13,255.30	6,519.00	55,960.32	869.2000
9090120 Low Flow Channel Riprap Protection	1,224.82	122.48	622.20	306.00	2,626.76	40.8000
(Note: The area of geotextile and volume of rip rap was calculated from the typical cross sections on the drawings and the reach length. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,224.82	122.48	622.20	306.00	2,626.76	40.8000
90902 Hydraulic Structure - Maple River - Structure	2,347,354.14	234,735.41	1,274,568.19	529,399.69	5,335,752.00	77,086.0747
9090201 Earthwork - Structural	18,670.60	1,867.06	9,142.48	4,198.33	39,366.33	680.9515
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,866.07	186.61	605.87	0.00	3,168.19	121.1737
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	16,804.53	1,680.45	8,536.61	4,198.33	36,198.14	559.7778
9090202 Aqueduct Structure and Wingwalls	2,288,058.38	228,805.84	1,244,816.26	515,089.88	5,209,317.05	75,047.0378
909020201 HP 14X73 Piling	254,737.79	25,473.78	131,746.48	62,821.51	597,564.46	8,376.2015
(Note: Pile quantities were obtained from the structural design and drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter	42,483.60	4,248.36	20,497.03	9,548.31	96,660.57	1,273.1077

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Carpenter	108,033.36	10,803.34	55,445.88	25,828.82	253,194.47	3,443.8432
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Oiler	38,077.57	3,807.76	22,798.70	11,212.48	94,475.28	1,494.9967
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Heavy	65,161.50	6,516.15	32,506.15	15,986.63	150,947.32	2,131.5506
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	981.75	98.18	498.72	245.27	2,286.82	32.7033
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
909020202 Concrete - Footing	108,842.25	10,884.23	51,803.68	21,171.00	231,257.12	4,190.8000
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter	36,622.45	3,662.24	18,795.71	8,755.76	81,013.78	1,167.4353
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Carpenter	19,478.66	1,947.87	9,397.85	4,377.88	42,121.35	583.7176
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Cement Mason / Concrete Finisher	10,413.90	1,041.39	5,643.00	2,565.00	23,455.16	342.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Laborer - ND Cass County Davis Bacon	15,800.40	1,580.04	5,130.00	0.00	27,749.33	1,026.0000
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Laborer - ND Cass County Davis Bacon	5,950.80	595.08	1,710.00	0.00	10,195.69	342.0000
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Oiler	7,433.64	743.36	4,450.85	2,188.94	17,586.86	291.8588
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	13,142.40	1,314.24	6,676.27	3,283.41	29,134.96	437.7882
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
909020203 Concrete - Wall	536,599.59	53,659.96	272,004.04	126,053.85	1,181,032.47	17,886.9139
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter	246,560.04	24,656.00	126,541.81	58,948.05	545,561.87	7,859.7399
(Note: Hennepin County MN - Davis Bacon Wage Rate)						

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	128,726.74	12,872.67	62,106.70	28,931.69	278,365.32	3,857.5588
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	8,189.02	818.90	4,437.40	2,017.00	18,444.07	268.9333
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	12,486.32	1,248.63	4,054.00	0.00	21,929.92	810.8000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	4,679.44	467.94	1,344.67	0.00	8,017.43	268.9333
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	49,075.07	4,907.51	29,383.39	14,450.85	116,104.08	1,926.7794
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	86,882.96	8,688.30	44,136.08	21,706.27	192,609.78	2,894.1691
909020204 Concrete - Piers	115,211.73	11,521.17	52,496.79	19,347.33	239,108.43	4,824.9778
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	30,994.71	3,099.47	15,907.39	7,410.27	68,632.46	988.0366
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	15,290.00	1,529.00	7,376.96	3,436.47	33,064.32	458.1961
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	17,082.45	1,708.25	9,256.50	4,207.50	38,474.69	561.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	25,938.73	2,593.87	8,421.67	0.00	45,555.01	1,684.3333
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	9,761.40	976.14	2,805.00	0.00	16,724.50	561.0000
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	5,818.15	581.81	3,483.58	1,713.24	13,764.84	228.4314
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	10,326.29	1,032.63	5,245.70	2,579.85	22,892.62	343.9804
909020205 Concrete - Elevated Deck	59,222.53	5,922.25	25,484.92	8,048.87	119,547.50	2,725.5806

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	20,699.55	2,069.96	10,623.61	4,948.89	45,790.20	659.8519
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	5,504.81	550.48	2,655.90	1,237.22	11,903.81	164.9630
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,022.37	202.24	1,028.32	467.42	4,446.60	62.3226
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,897.72	189.77	1,028.32	467.42	4,274.23	62.3226
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	24,487.17	2,448.72	7,950.38	0.00	43,300.45	1,590.0759
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,084.41	108.44	311.61	0.00	1,857.96	62.3226
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,050.40	105.04	628.92	309.31	2,485.09	41.2407
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,476.09	247.61	1,257.84	618.61	5,489.17	82.4815
909020206 Steel Reinforcement Bars	1,163,143.84	116,314.38	685,406.27	265,339.07	2,723,579.01	35,378.5427
(Note: Rebar quantities were obtained from the structural design and drawings. The amount of rebar was determined by the bar type and spacing in a particular concrete section. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	791,724.80	79,172.48	478,782.69	175,678.58	1,863,022.36	23,423.8105
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	167,714.48	16,771.45	95,756.54	35,135.72	386,057.85	4,684.7621
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	92,583.07	9,258.31	55,433.52	27,262.39	223,940.06	3,634.9850
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	111,121.49	11,112.15	55,433.52	27,262.39	250,558.75	3,634.9850
909020208 Steel Sheetpile	47,883.30	4,788.33	24,710.78	11,792.50	112,206.35	1,572.3333

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Sheet Pile quantities were obtained from the structural design and drawings. The number of sheets were determined by dividing the total wall length by the width of one sheet (1.5'). See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	18,278.25	1,827.83	9,380.93	4,370.00	42,823.53	582.6667
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	9,321.35	932.14	4,497.27	2,095.00	21,225.07	279.3333
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	7,114.62	711.46	4,259.83	2,095.00	17,647.44	279.3333
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	12,808.83	1,280.88	6,389.75	3,142.50	29,671.19	419.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	360.24	36.02	183.00	90.00	839.12	12.0000
909020209 Structural Aggregate Backfill	2,417.35	241.74	1,163.29	515.75	5,021.70	91.6880
(Note: The volume of aggregate was calculated as the base material needed for the gated structure work area and the pile caps. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	353.00	35.30	114.61	0.00	594.45	22.9220
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,064.36	206.44	1,048.68	515.75	4,427.25	68.7660
9090203 Riprap	40,625.16	4,062.52	20,609.45	10,111.48	87,068.62	1,358.0853
(Note: The volume of rip rap and Select granular aggregate was determined by the area shown on the drawings and a specified thickness. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	152.28	15.23	49.44	0.00	256.43	9.8880
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	40,472.88	4,047.29	20,560.01	10,111.48	86,812.19	1,348.1973
90903 Hydraulic Structure -Maple River - Weir to Diversion	152,787.03	15,278.70	77,923.26	36,978.19	338,732.07	5,134.8152
9090301 Earthwork - Structural	19,799.60	1,979.96	9,695.32	4,452.20	41,746.77	722.1279
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,978.91	197.89	642.50	0.00	3,359.77	128.5009
USR Operator - Medium	17,820.68	1,782.07	9,052.81	4,452.20	38,387.00	593.6270

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9090302 Steel Sheetpile	54,080.26	5,408.03	27,863.79	13,268.75	126,759.41	1,769.1667
(Note: Sheet Pile quantities were obtained from the structural design and drawings. The number of sheets were determined by dividing the total wall length by the width of one sheet (1.5'). See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter	24,730.02	2,473.00	12,692.17	5,912.50	58,029.34	788.3333
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Carpenter	8,398.12	839.81	4,051.83	1,887.50	19,117.30	251.6667
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Oiler	6,409.95	640.99	3,837.92	1,887.50	15,895.33	251.6667
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Heavy	11,540.18	1,154.02	5,756.88	2,831.25	26,724.82	377.5000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	3,002.00	300.20	1,525.00	750.00	6,992.63	100.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9090303 Riprap	68,014.15	6,801.41	34,504.08	16,928.51	145,769.21	2,273.6907
(Note: The volume of rip rap and Select granular aggregate was determined by the area shown on the drawings and a specified thickness. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon	254.96	25.50	82.78	0.00	429.35	16.5560
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	67,759.18	6,775.92	34,421.30	16,928.51	145,339.85	2,257.1347
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9090304 Concrete - Wall	5,026.62	502.66	2,403.17	990.47	10,720.09	191.3956
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter	1,980.11	198.01	1,016.25	473.41	4,394.43	63.1210
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Carpenter	807.42	80.74	389.56	181.47	1,746.33	24.1961
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Cement Mason / Concrete Finisher	446.60	44.66	242.00	110.00	1,005.87	14.6667
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Laborer - ND Cass County Davis Bacon	687.87	68.79	223.33	0.00	1,208.21	44.6667

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	255.20	25.52	73.33	0.00	437.24	14.6667
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	299.65	29.96	179.41	88.24	708.92	11.7647
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	549.78	54.98	279.28	137.35	1,219.08	18.3137
9090305 Steel Reinforcement Bars	5,866.41	586.64	3,456.90	1,338.26	13,736.59	178.4345
(Note: Rebar quantities were obtained from the structural design and drawings. The amount of rebar was determined by the bar type and spacing in a particular concrete section. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	3,993.13	399.31	2,414.78	886.05	9,396.30	118.1398
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	845.88	84.59	482.96	177.21	1,947.11	23.6280
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	466.95	46.70	279.58	137.50	1,129.46	18.3333
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	560.45	56.05	279.58	137.50	1,263.71	18.3333
910 Hydraulic Structure - Lower Rush River	1,324,161.32	132,416.13	675,773.71	296,027.95	2,909,362.33	45,985.7904
91001 Hydraulic Structure - Lower Rush River - Site work	609,962.56	60,996.26	291,037.80	130,167.62	1,275,894.46	22,761.6796
9100102 Temporary Erosion and Sedimentation Control	9,495.67	949.57	2,514.13	0.00	15,629.16	373.8381
(Note: Historical projects referenced; 3% of construction cost)						
MIL B-LABORER Laborers, (Semi-Skilled)	7,776.00	777.60	1,955.80	0.00	12,733.25	262.1714
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,719.67	171.97	558.33	0.00	2,895.91	111.6667
9100103 Clearing and Grubbing	2,478.93	247.89	1,061.67	350.00	4,819.81	116.6667
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,078.00	107.80	350.00	0.00	1,815.34	70.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,400.93	140.09	711.67	350.00	3,004.47	46.6667
9100104 Strip and Stockpile Topsoil	40,577.36	4,057.74	19,599.01	8,755.57	84,803.75	1,526.6124

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: It is assumed that the contractor will strip and salvage 12 inches of topsoil from work areas. Topsoil quantities for suitable topsoil stripping are based on channel and spoil pile plan areas multiplied by the depth of 12 inches. The estimate assumes scraper crews will strip material over the structural excavation areas and dozer crews will stockpile at the edges. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	5,531.72	553.17	1,796.01	0.00	9,341.29	359.2029
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	35,045.63	3,504.56	17,802.99	8,755.57	75,462.46	1,167.4095
9100105 Temporary Haul Roads	13,638.45	1,363.85	5,871.66	3,086.03	28,033.31	441.2183
(Note: The volume of class V aggregate base was calculated using a typical temporary haul road cross section and road length (derived from drawing to nearest accessible roadway). Added to this was the volume of base material required to convert the temp haul road to a permanent haul road. (extra thickness). See Consultant Appendix F-Drawings for specific dimensions.)						
MIL B-EQOPRMED Equip. Operators, Medium (Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)	8,032.80	803.28	3,108.00	1,800.00	16,142.04	240.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	458.12	45.81	148.74	0.00	777.80	29.7483
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	5,147.53	514.75	2,614.92	1,286.03	11,113.46	171.4700
9100106 Embankment - Temporary Levee	5,343.03	534.30	2,633.20	1,224.44	11,287.28	191.9605
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	442.01	44.20	143.51	0.00	747.16	28.7020
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	4,901.02	490.10	2,489.69	1,224.44	10,540.12	163.2585
9100107 Excavation and Embankment - Channel Realignment	433,847.91	43,384.79	209,960.52	94,172.78	914,511.68	16,251.5433
910010701 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	97,294.53	9,729.45	47,786.33	22,074.06	206,661.77	3,523.6902
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	8,939.43	893.94	2,902.41	0.00	15,237.77	580.4824
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	88,355.10	8,835.51	44,883.92	22,074.06	191,424.00	2,943.2079

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
910010702 Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	66,515.57	6,651.56	32,618.90	15,022.41	141,957.35	2,417.6548
(Note: The volume of Type 2 excavation based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	6,385.87	638.59	2,073.33	0.00	10,943.44	414.6667
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	60,129.70	6,012.97	30,545.57	15,022.41	131,013.91	2,002.9881
910010703 Excavation and Embankment - Channel - Type 3 Oxidized Brenna	228,156.34	22,815.63	110,813.65	50,066.23	482,390.78	8,477.9589
(Note: The volume of Type 3 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	27,757.90	2,775.79	9,012.31	0.00	47,461.97	1,802.4612
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	200,398.44	20,039.84	101,801.34	50,066.23	434,928.81	6,675.4977
910010704 Excavation and Embankment - Channel - Type 4 Brenna	1,727.75	172.77	839.55	379.68	3,658.57	64.1319
(Note: The volume of Type 4 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	208.03	20.80	67.54	0.00	356.17	13.5086
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,519.71	151.97	772.01	379.68	3,302.40	50.6234
910010705 Excavation and Embankment - Channel	40,153.72	4,015.37	17,902.09	6,630.40	79,843.22	1,768.1075
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	13,614.43	1,361.44	4,420.27	0.00	22,926.59	884.0538
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	26,539.29	2,653.93	13,481.82	6,630.40	56,916.63	884.0538
9100108 Dewatering and Control of Water	5,796.00	579.60	2,001.60	900.00	10,978.15	180.0000
(Note: The total cost of Dewatering and Control of Water is estimated to be approximately 2% of the total cost of construction of the structure.)						

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
MIL B-EQOPRMED Equip. Operators, Medium (Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)	4,016.40	401.64	1,554.00	900.00	8,071.02	120.0000
MIL B-LABORER Laborers, (Semi-Skilled)	1,779.60	177.96	447.60	0.00	2,907.13	60.0000
9100113 Topsoil Placement	37,155.05	3,715.51	18,240.77	8,418.82	78,090.83	1,347.0109
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	3,457.33	345.73	1,122.51	0.00	5,822.11	224.5018
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	33,697.72	3,369.77	17,118.26	8,418.82	72,268.72	1,122.5091
9100114 Site Restoration (Note: The area of site restoration was determined calculating the disturbed area from the drawings. See Consultant Appendix F-Drawings for specific areas.)	33,313.20	3,331.32	15,364.00	6,900.00	68,228.76	1,380.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	7,084.00	708.40	2,300.00	0.00	11,929.40	460.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	13,809.20	1,380.92	7,015.00	3,450.00	29,615.45	460.0000
USR Truck Driver - Articulated Truck (Note: Hennepin County MN - Davis Bacon Wage Rate)	12,420.00	1,242.00	6,049.00	3,450.00	26,683.91	460.0000
9100115 Miscellaneous Features	2,559.77	255.98	761.77	0.00	4,339.97	85.3333
MIL B-EQOPRLT Equip. Operators, Light	44.07	4.41	17.27	0.00	78.94	1.3333
MIL B-LABORER Laborers, (Semi-Skilled)	1,700.51	170.05	427.71	0.00	2,801.63	57.3333
MIL B-TRKDVRLT Truck Drivers, Light	815.20	81.52	316.80	0.00	1,459.39	26.6667
9100116 Snow Removal	9,606.40	960.64	4,880.00	2,400.00	20,602.05	320.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	9,606.40	960.64	4,880.00	2,400.00	20,602.05	320.0000
9100117 Excavation and Embankment - Channel - Lower Bank Protection Riprap Excavation	2,493.68	249.37	1,211.74	547.99	5,280.47	92.5627
910011701 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
910011702 Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 2 excavation based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
910011703 Excavation and Embankment - Channel - Type 3 Oxidized Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 3 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
910011704 Excavation and Embankment - Channel - Type 4 Brenna	2,493.68	249.37	1,211.74	547.99	5,280.47	92.5627
(Note: The volume of Type 4 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	300.26	30.03	97.49	0.00	514.07	19.4971
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,193.43	219.34	1,114.25	547.99	4,766.41	73.0655
9100118 Lower Bank Protection	13,044.69	1,304.47	6,626.63	3,259.00	27,975.87	434.5333
(Note: The area of geotextile and volume of rip rap was calculated from the typical cross sections on the drawings and the reach length. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	13,044.69	1,304.47	6,626.63	3,259.00	27,975.87	434.5333
9100119 Low Flow Channel Riprap Protection	612.41	61.24	311.10	153.00	1,313.38	20.4000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: The area of geotextile and volume of rip rap was calculated from the typical cross sections on the drawings and the reach length. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	612.41	61.24	311.10	153.00	1,313.38	20.4000
91002 Hydraulic Structure - Lower Rush River - Structure	714,198.76	71,419.88	384,735.91	165,860.32	1,633,467.87	23,224.1109
9100201 Earthwork - Structural	5,262.24	526.22	2,576.78	1,183.29	11,095.26	191.9238
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	525.95	52.59	170.76	0.00	892.94	34.1524
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	4,736.30	473.63	2,406.01	1,183.29	10,202.32	157.7714
9100202 Drop Structure and Walls	696,612.14	69,661.21	375,906.89	161,609.54	1,595,958.76	22,620.1871
910020201 HP 14X73 Piling	193,538.80	19,353.88	100,069.31	47,702.85	454,079.85	6,360.3807
(Note: Pile quantities were obtained from the structural design and drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	31,369.85	3,136.99	15,134.99	7,050.46	71,373.00	940.0615
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	83,940.59	8,394.06	43,080.76	20,068.68	196,836.14	2,675.8237
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	28,143.82	2,814.38	16,850.93	8,287.34	69,827.08	1,104.9791
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	48,148.05	4,814.81	24,018.90	11,812.57	111,532.94	1,575.0098
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,936.48	193.65	983.72	483.80	4,510.69	64.5065
910020202 Concrete - Footing	55,555.03	5,555.50	26,186.17	10,472.50	117,410.59	2,181.6667
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	17,714.82	1,771.48	9,091.76	4,235.29	39,187.58	564.7059
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	9,422.12	942.21	4,545.88	2,117.65	20,374.73	282.3529
USR Cement Mason / Concrete Finisher	5,978.35	597.83	3,239.50	1,472.50	13,465.00	196.3333

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	9,070.60	907.06	2,945.00	0.00	15,930.17	589.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	3,416.20	341.62	981.67	0.00	5,853.08	196.3333
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	3,595.76	359.58	2,152.94	1,058.82	8,507.03	141.1765
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	6,357.18	635.72	3,229.41	1,588.24	14,093.02	211.7647
910020203 Concrete - Wall	171,821.73	17,182.17	87,305.32	40,557.19	379,184.50	5,684.5588
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	89,775.79	8,977.58	46,075.56	21,463.77	199,217.24	2,861.8358
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	36,749.86	3,674.99	17,730.68	8,259.63	79,470.54	1,101.2843
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,087.85	208.79	1,131.35	514.25	4,702.46	68.5667
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	3,208.85	320.88	1,041.83	0.00	5,636.13	208.3667
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,193.06	119.31	342.83	0.00	2,044.11	68.5667
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	13,990.90	1,399.09	8,376.96	4,119.82	33,100.31	549.3088
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	24,815.43	2,481.54	12,606.11	6,199.72	55,013.71	826.6299
910020204 Steel Reinforcement Bars	274,643.87	27,464.39	161,839.51	62,652.40	643,096.98	8,353.6529
(Note: Rebar quantities were obtained from the structural design and drawings. The amount of rebar was determined by the bar type and spacing in a particular concrete section. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	186,943.66	18,694.37	113,051.14	41,481.58	439,900.60	5,530.8775

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	39,601.08	3,960.11	22,610.23	8,296.32	91,156.76	1,106.1755
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	21,860.90	2,186.09	13,089.08	6,437.25	52,877.18	858.3000
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	26,238.23	2,623.82	13,089.08	6,437.25	59,162.44	858.3000
910020206 Structural Aggregate Backfill	1,052.70	105.27	506.59	224.60	2,186.83	39.9280
(Note: The volume of aggregate was calculated as the base material needed for the gated structure work area and the pile caps. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	153.72	15.37	49.91	0.00	258.87	9.9820
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	898.98	89.90	456.68	224.60	1,927.97	29.9460
9100203 Riprap	12,324.38	1,232.44	6,252.25	3,067.50	26,413.85	412.0000
(Note: The volume of rip rap and Select granular aggregate was determined by the area shown on the drawings and a specified thickness. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	46.20	4.62	15.00	0.00	77.80	3.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	12,278.18	1,227.82	6,237.25	3,067.50	26,336.04	409.0000
911 Hydraulic Structure - Rush River	1,366,612.25	136,661.23	700,217.40	306,066.74	3,007,562.49	47,267.1604
91101 Hydraulic Structure - Rush River - Site work	601,913.63	60,191.36	287,471.20	128,868.41	1,260,141.99	22,403.4762
9110102 Temporary Erosion and Sedimentation Control	9,495.67	949.57	2,514.13	0.00	15,629.16	373.8381
(Note: Historical projects referenced; 3% of construction cost)						
MIL B-LABORER Laborers, (Semi-Skilled)	7,776.00	777.60	1,955.80	0.00	12,733.25	262.1714
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,719.67	171.97	558.33	0.00	2,895.91	111.6667
9110103 Clearing and Grubbing	2,478.93	247.89	1,061.67	350.00	4,819.81	116.6667
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,078.00	107.80	350.00	0.00	1,815.34	70.0000
USR Operator - Medium	1,400.93	140.09	711.67	350.00	3,004.47	46.6667

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9110104 Strip and Stockpile Topsoil	40,761.39	4,076.14	19,687.90	8,795.28	85,188.36	1,533.5360
(Note: It is assumed that the contractor will strip and salvage 12 inches of topsoil from work areas. Topsoil quantities for suitable topsoil stripping are based on channel and spoil pile plan areas multiplied by the depth of 12 inches. The estimate assumes scraper crews will strip material over the structural excavation areas and dozer crews will stockpile at the edges. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	5,556.81	555.68	1,804.16	0.00	9,383.65	360.8320
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	35,204.57	3,520.46	17,883.74	8,795.28	75,804.71	1,172.7040
9110105 Temporary Haul Roads	25,550.42	2,555.04	11,744.41	5,818.82	53,302.14	868.8060
(Note: The volume of class V aggregate base was calculated using a typical temporary haul road cross section and road length (derived from drawing to nearest accessible roadway). Added to this was the volume of base material required to convert the temp haul road to a permanent haul road. (extra thickness). See Consultant Appendix F-Drawings for specific dimensions.)						
MIL B-EQOPRMEQ Equip. Operators, Medium (Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)	8,032.80	803.28	3,108.00	1,800.00	16,142.04	240.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,431.65	143.16	464.82	0.00	2,430.65	92.9640
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	16,085.98	1,608.60	8,171.59	4,018.82	34,729.46	535.8420
9110106 Embankment - Temporary Levee	5,343.03	534.30	2,633.20	1,224.44	11,287.28	191.9605
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	442.01	44.20	143.51	0.00	747.16	28.7020
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	4,901.02	490.10	2,489.69	1,224.44	10,540.12	163.2585
9110107 Excavation and Embankment - Channel Realignment	413,534.47	41,353.45	200,349.55	90,062.89	872,751.60	15,452.7196
907010901 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	117,705.47	11,770.55	57,780.86	26,663.53	250,152.64	4,268.1400
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	10,980.23	1,098.02	3,565.01	0.00	18,732.04	713.0022
USR Operator - Medium	106,725.24	10,672.52	54,215.85	26,663.53	231,420.60	3,555.1378

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
907010902 Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	85,690.45	8,569.04	42,022.17	19,353.02	182,880.32	3,114.6079
(Note: The volume of Type 2 excavation based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	8,226.76	822.68	2,671.03	0.00	14,098.17	534.2053
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	77,463.68	7,746.37	39,351.14	19,353.02	168,782.14	2,580.4025
907010903 Excavation and Embankment - Channel - Type 3 Oxidized Brenna	87,753.56	8,775.36	42,621.18	19,256.49	185,537.29	3,260.7951
(Note: The volume of Type 3 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	10,676.25	1,067.63	3,466.32	0.00	18,254.84	693.2632
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	77,077.31	7,707.73	39,154.86	19,256.49	167,282.45	2,567.5320
907010904 Excavation and Embankment - Channel - Type 4 Brenna	83,859.98	8,386.00	40,749.39	18,428.38	177,576.72	3,112.7865
(Note: The volume of Type 4 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	10,097.30	1,009.73	3,278.34	0.00	17,287.49	655.6686
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	73,762.68	7,376.27	37,471.05	18,428.38	160,289.23	2,457.1180
907010905 Excavation and Embankment - Channel	38,525.02	3,852.50	17,175.95	6,361.46	76,604.64	1,696.3900
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	13,062.20	1,306.22	4,240.98	0.00	21,996.65	848.1950
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	25,462.81	2,546.28	12,934.97	6,361.46	54,607.99	848.1950
9110108 Dewatering and Control of Water	5,796.00	579.60	2,001.60	900.00	10,978.15	180.0000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: The total cost of Dewatering and Control of Water is estimated to be approximately 2% of the total cost of construction of the structure.)						
MIL B-EQOPRMED Equip. Operators, Medium (Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)	4,016.40	401.64	1,554.00	900.00	8,071.02	120.0000
MIL B-LABORER Laborers, (Semi-Skilled)	1,779.60	177.96	447.60	0.00	2,907.13	60.0000
9110113 Topsoil Placement	37,323.56	3,732.36	18,323.50	8,457.00	78,444.99	1,353.1200
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	3,473.01	347.30	1,127.60	0.00	5,848.52	225.5200
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	33,850.55	3,385.06	17,195.90	8,457.00	72,596.48	1,127.6000
9110114 Site Restoration	33,313.20	3,331.32	15,364.00	6,900.00	68,228.76	1,380.0000
(Note: The area of site restoration was determined calculating the disturbed area from the drawings. See Consultant Appendix F-Drawings for specific areas.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	7,084.00	708.40	2,300.00	0.00	11,929.40	460.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	13,809.20	1,380.92	7,015.00	3,450.00	29,615.45	460.0000
USR Truck Driver - Articulated Truck (Note: Hennepin County MN - Davis Bacon Wage Rate)	12,420.00	1,242.00	6,049.00	3,450.00	26,683.91	460.0000
9110115 Miscellaneous Features	2,559.77	255.98	761.77	0.00	4,339.97	85.3333
MIL B-EQOPRLT Equip. Operators, Light	44.07	4.41	17.27	0.00	78.94	1.3333
MIL B-LABORER Laborers, (Semi-Skilled)	1,700.51	170.05	427.71	0.00	2,801.63	57.3333
MIL B-TRKDVRLT Truck Drivers, Light	815.20	81.52	316.80	0.00	1,459.39	26.6667
9110116 Snow Removal	9,606.40	960.64	4,880.00	2,400.00	20,602.05	320.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	9,606.40	960.64	4,880.00	2,400.00	20,602.05	320.0000
9110117 Excavation and Embankment - Channel - Lower Bank Protection Riprap Excavation	2,493.68	249.37	1,211.74	547.99	5,280.47	92.5627
901081301 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon	0.00	0.00	0.00	0.00	0.00	0.0000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
901081302 Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 2 excavation based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
901081303 Excavation and Embankment - Channel - Type 3 Oxidized Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 3 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
901081304 Excavation and Embankment - Channel - Type 4 Brenna	2,493.68	249.37	1,211.74	547.99	5,280.47	92.5627
(Note: The volume of Type 4 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon	300.26	30.03	97.49	0.00	514.07	19.4971
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	2,193.43	219.34	1,114.25	547.99	4,766.41	73.0655
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9110118 Lower Bank Protection	13,044.69	1,304.47	6,626.63	3,259.00	27,975.87	434.5333
(Note: The area of geotextile and volume of rip rap was calculated from the typical cross sections on the drawings and the reach length. See Consultant Appendix F- Drawings for specific dimensions.)						
USR Operator - Medium	13,044.69	1,304.47	6,626.63	3,259.00	27,975.87	434.5333
(Note: Hennepin County MN - Davis Bacon Wage Rate)						

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
9110119 Low Flow Channel Riprap Protection	612.41	61.24	311.10	153.00	1,313.38	20.4000
(Note: The area of geotextile and volume of rip rap was calculated from the typical cross sections on the drawings and the reach length. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	612.41	61.24	311.10	153.00	1,313.38	20.4000
91102 Hydraulic Structure - Rush River - Structure	764,698.62	76,469.86	412,746.20	177,198.32	1,747,420.50	24,863.6841
9110201 Earthwork - Structural	5,820.36	582.04	2,850.07	1,308.79	12,272.03	212.2794
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	581.73	58.17	188.87	0.00	987.65	37.7746
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	5,238.63	523.86	2,661.20	1,308.79	11,284.38	174.5048
9110202 Drop Structure and Wingwalls	745,310.89	74,531.09	403,013.58	172,513.04	1,706,071.19	24,197.8048
911020201 HP 14X73 Piling	189,044.47	18,904.45	97,742.40	46,590.91	443,535.85	6,212.1210
(Note: Pile quantities were obtained from the structural design and drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	30,534.58	3,053.46	14,732.00	6,862.73	69,472.83	915.0308
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	82,291.89	8,229.19	42,234.60	19,674.50	192,971.60	2,623.2672
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	27,391.73	2,739.17	16,400.62	8,065.88	67,961.45	1,075.4506
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	46,862.77	4,686.28	23,377.73	11,497.24	108,556.33	1,532.9659
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,963.50	196.35	997.45	490.55	4,573.63	65.4065
911020202 Concrete - Footing	56,739.93	5,673.99	26,619.80	10,532.75	119,608.07	2,249.0333
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	17,614.44	1,761.44	9,040.24	4,211.29	38,965.51	561.5059
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	9,368.73	936.87	4,520.12	2,105.65	20,259.27	280.7529

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	6,430.02	643.00	3,484.25	1,583.75	14,482.30	211.1667
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	9,755.90	975.59	3,167.50	0.00	17,133.72	633.5000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	3,674.30	367.43	1,055.83	0.00	6,295.29	211.1667
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	3,575.39	357.54	2,140.74	1,052.82	8,458.82	140.3765
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	6,321.15	632.12	3,211.11	1,579.24	14,013.16	210.5647
911020203 Concrete - Wall	191,337.85	19,133.78	97,101.90	45,092.46	421,422.28	6,358.7278
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	88,709.36	8,870.94	45,528.23	21,208.80	196,306.91	2,827.8405
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	45,964.88	4,596.49	22,176.65	10,330.74	99,397.45	1,377.4314
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,616.67	261.67	1,417.90	644.50	5,893.51	85.9333
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	4,011.19	401.12	1,302.33	0.00	7,045.23	260.4667
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,495.24	149.52	429.67	0.00	2,561.84	85.9333
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	17,507.63	1,750.76	10,482.58	5,155.37	41,420.36	687.3824
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	31,032.88	3,103.29	15,764.54	7,753.05	68,796.97	1,033.7402
911020204 Steel Reinforcement Bars	307,661.35	30,766.13	181,295.73	70,184.42	720,409.60	9,357.9227
(Note: Rebar quantities were obtained from the structural design and drawings. The amount of rebar was determined by the bar type and spacing in a particular concrete section. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Ironworker	209,417.88	20,941.79	126,642.06	46,468.46	492,785.11	6,195.7953

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Ironworker	44,361.89	4,436.19	25,328.41	9,293.69	102,115.56	1,239.1591
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Oiler	24,489.00	2,448.90	14,662.63	7,211.13	59,234.03	961.4842
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Heavy	29,392.57	2,939.26	14,662.63	7,211.13	66,274.90	961.4842
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
911020206 Structural Aggregate Backfill	527.30	52.73	253.75	112.50	1,095.39	20.0000
USR Laborer - ND Cass County Davis Bacon	77.00	7.70	25.00	0.00	129.67	5.0000
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	450.30	45.03	228.75	112.50	965.72	15.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
9110203 Riprap	13,567.36	1,356.74	6,882.55	3,376.50	29,077.27	453.6000
(Note: The volume of rip rap and Select granular aggregate was determined by the area shown on the drawings and a specified thickness. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon	52.36	5.24	17.00	0.00	88.17	3.4000
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	13,515.00	1,351.50	6,865.55	3,376.50	28,989.10	450.2000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
912 Hydraulic Structure - Large Drain Structure (1 Structures)	51,900.76	5,190.08	27,496.12	12,102.28	115,997.82	1,693.4472
91201 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	4,488.63	448.86	2,197.93	1,009.29	9,496.95	163.7143
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon	448.80	44.88	145.71	0.00	761.71	29.1429
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	4,039.83	403.98	2,052.21	1,009.29	8,735.24	134.5714
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
91202 Concrete - Wall	29,226.66	2,922.67	14,840.99	6,875.31	64,545.90	967.3750
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						

<u>Description</u>	<u>BaseWage</u>	<u>Overtime</u>	<u>TaxableFringe</u>	<u>Subsistence</u>	<u>Total</u>	<u>ManHours</u>
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	16,645.94	1,664.59	8,543.18	3,979.74	37,009.93	530.6324
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	5,543.02	554.30	2,674.34	1,245.81	11,986.76	166.1078
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	380.63	38.06	206.25	93.75	857.28	12.5000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	587.77	58.78	190.83	0.00	1,032.41	38.1667
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	217.50	21.75	62.50	0.00	372.65	12.5000
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,106.89	210.69	1,261.49	620.40	4,984.59	82.7206
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	3,744.92	374.49	1,902.40	935.61	8,302.29	124.7475
91203 Steel Reinforcement Bars	14,999.34	1,499.93	8,838.67	3,421.68	35,121.95	456.2245
(Note: Rebar quantities were obtained from the structural design and drawings. The amount of rebar was determined by the bar type and spacing in a particular concrete section. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	10,209.70	1,020.97	6,174.15	2,265.47	24,024.63	302.0621
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,162.76	216.28	1,234.83	453.09	4,978.41	60.4124
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,193.91	119.39	714.84	351.56	2,887.82	46.8750
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,432.97	143.30	714.84	351.56	3,231.08	46.8750
91204 Erosion Protection	3,186.12	318.61	1,618.53	796.00	6,833.01	106.1333
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	3,186.12	318.61	1,618.53	796.00	6,833.01	106.1333
913 Hydraulic Structure - Small Drain Structure (2 Structures)	29,710.68	2,971.07	15,656.58	6,907.68	66,161.03	977.5007
91301 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	4,488.63	448.86	2,197.93	1,009.29	9,496.95	163.7143

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	448.80	44.88	145.71	0.00	761.71	29.1429
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	4,039.83	403.98	2,052.21	1,009.29	8,735.24	134.5714
91302 Concrete - Wall	15,641.34	1,564.13	7,941.53	3,678.50	34,541.63	517.8000
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	8,907.11	890.71	4,571.39	2,129.53	19,803.83	283.9373
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,966.66	296.67	1,431.32	666.76	6,415.54	88.9020
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	203.00	20.30	110.00	50.00	457.22	6.6667
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	318.27	31.83	103.33	0.00	559.11	20.6667
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	116.00	11.60	33.33	0.00	198.75	6.6667
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,123.68	112.37	672.79	330.88	2,658.45	44.1176
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,006.63	200.66	1,019.36	501.32	4,448.73	66.8431
91303 Steel Reinforcement Bars	7,999.65	799.96	4,713.96	1,824.90	18,731.71	243.3197
(Note: Rebar quantities were obtained from the structural design and drawings. The amount of rebar was determined by the bar type and spacing in a particular concrete section. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	5,445.17	544.52	3,292.88	1,208.25	12,813.14	161.0998
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,153.47	115.35	658.58	241.65	2,655.15	32.2200
USR Oiler	636.75	63.68	381.25	187.50	1,540.17	25.0000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Heavy	764.25	76.43	381.25	187.50	1,723.24	25.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
91304 Erosion Protection	1,581.05	158.11	803.17	395.00	3,390.75	52.6667
USR Operator - Medium	1,581.05	158.11	803.17	395.00	3,390.75	52.6667
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
914 Hydraulic Structure - Side Channel Inlet 1X72" (19 Inlets)	270,376.36	27,037.64	140,671.87	62,313.25	596,988.33	9,077.4815
91401 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	85,284.05	8,528.41	41,760.64	19,176.43	180,441.98	3,110.5714
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon	8,527.20	852.72	2,768.57	0.00	14,472.49	553.7143
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	76,756.85	7,675.69	38,992.07	19,176.43	165,969.49	2,556.8571
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
91403 Concrete - Wall	120,188.26	12,018.83	60,998.97	28,241.60	265,378.00	3,980.8802
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter	68,409.29	6,840.93	35,109.65	16,355.42	152,102.06	2,180.7233
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Carpenter	22,800.22	2,280.02	11,000.40	5,124.41	49,310.34	683.2549
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Cement Mason / Concrete Finisher	1,542.80	154.28	836.00	380.00	3,474.84	50.6667
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Laborer - ND Cass County Davis Bacon	2,535.87	253.59	823.33	0.00	4,456.52	164.6667
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Laborer - ND Cass County Davis Bacon	881.60	88.16	253.33	0.00	1,510.47	50.6667
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Oiler	8,539.94	853.99	5,113.24	2,514.71	20,204.19	335.2941
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	15,478.55	1,547.85	7,863.02	3,867.06	34,319.58	515.6078

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
91404 Steel Reinforcement Bars	60,797.32	6,079.73	35,826.06	13,869.22	142,360.98	1,849.2299
(Note: Rebar quantities were obtained from the structural design and drawings. The amount of rebar was determined by the bar type and spacing in a particular concrete section. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	41,383.31	4,138.33	25,025.88	9,182.69	97,379.84	1,224.3583
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	8,766.41	876.64	5,005.18	1,836.54	20,179.17	244.8717
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	4,839.30	483.93	2,897.50	1,425.00	11,705.31	190.0000
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	5,808.30	580.83	2,897.50	1,425.00	13,096.66	190.0000
91405 Erosion Protection	4,106.74	410.67	2,086.20	1,026.00	8,807.38	136.8000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	4,106.74	410.67	2,086.20	1,026.00	8,807.38	136.8000
915 Hydraulic Structure - Side Channel Inlet 2X72" (7 Inlets)	120,309.43	12,030.94	62,907.58	27,779.11	266,577.95	4,010.5484
91501 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	31,420.44	3,142.04	15,385.50	7,065.00	66,478.62	1,146.0000
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	3,141.60	314.16	1,020.00	0.00	5,331.97	204.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	28,278.84	2,827.88	14,365.50	7,065.00	61,146.65	942.0000
91503 Concrete - Wall	57,865.20	5,786.52	29,372.76	13,601.61	127,775.12	1,916.2151
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	32,942.25	3,294.22	16,906.92	7,875.90	73,243.69	1,050.1195
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	10,976.44	1,097.64	5,295.80	2,466.99	23,738.18	328.9314

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	746.03	74.60	404.25	183.75	1,680.27	24.5000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,203.77	120.38	390.83	0.00	2,115.18	78.1667
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	426.30	42.63	122.50	0.00	730.39	24.5000
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	4,129.51	412.95	2,472.52	1,215.99	9,769.79	162.1324
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	7,440.91	744.09	3,779.94	1,858.99	16,497.62	247.8652
91504 Steel Reinforcement Bars	29,398.70	2,939.87	17,323.79	6,706.50	68,839.02	894.2000
(Note: Rebar quantities were obtained from the structural design and drawings. The amount of rebar was determined by the bar type and spacing in a particular concrete section. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	20,011.01	2,001.10	12,101.33	4,440.31	47,088.28	592.0417
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	4,239.02	423.90	2,420.27	888.06	9,757.69	118.4083
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,340.06	234.01	1,401.09	689.06	5,660.13	91.8750
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,808.62	280.86	1,401.09	689.06	6,332.92	91.8750
91505 Erosion Protection	1,625.08	162.51	825.53	406.00	3,485.18	54.1333
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,625.08	162.51	825.53	406.00	3,485.18	54.1333
916 Hydraulic Structure - Outlet to Red River of the North	2,173,303.70	217,330.37	1,030,148.81	396,741.40	4,605,235.35	85,754.1474
91601 Hydraulic Structure - Outlet to Red River of the North - Site work	481,916.32	48,191.63	222,798.70	98,234.64	996,658.54	17,674.9568
9160102 Temporary Erosion and Sedimentation Control (Note: Historical projects referenced; 3% of construction cost)	17,176.76	1,717.68	4,446.06	0.00	28,207.36	632.8095
MIL B-LABORER Laborers, (Semi-Skilled)	15,457.10	1,545.71	3,887.73	0.00	25,311.46	521.1429
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,719.67	171.97	558.33	0.00	2,895.91	111.6667

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
9160103 Clearing and Grubbing	8,853.33	885.33	3,791.67	1,250.00	17,213.60	416.6667
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	3,850.00	385.00	1,250.00	0.00	6,483.37	250.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	5,003.33	500.33	2,541.67	1,250.00	10,730.23	166.6667
9160104 Strip and Stockpile Topsoil	17,783.46	1,778.35	8,589.47	3,837.22	37,166.14	669.0541
(Note: It is assumed that the contractor will strip and salvage 12 inches of topsoil from work areas. Topsoil quantities for suitable topsoil stripping are based on channel and spoil pile plan areas multiplied by the depth of 12 inches. The estimate assumes scraper crews will strip material over the structural excavation areas and dozer crews will stockpile at the edges. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	2,424.34	242.43	787.12	0.00	4,093.92	157.4245
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	15,359.12	1,535.91	7,802.35	3,837.22	33,072.22	511.6296
9160105 Temporary Haul Roads	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of class V aggregate base was calculated using a typical temporary haul road cross section and road length (derived from drawing to nearest accessible roadway). Added to this was the volume of base material required to convert the temp haul road to a permanent haul road. (extra thickness). See Consultant Appendix F-Drawings for specific dimensions.)						
MIL B-EQOPRMEQ Equip. Operators, Medium (Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
9160106 Embankment - Temporary Levee	0.00	0.00	0.00	0.00	0.00	0.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
9160107 Excavation and Embankment - Channel Realignment	328,387.40	32,838.74	159,272.72	71,757.78	693,636.04	12,240.7514
916010701 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	203,183.66	20,318.37	99,636.57	45,883.61	432,286.34	7,385.7921

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	19,526.85	1,952.68	6,339.88	0.00	33,365.56	1,267.9770
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	183,656.81	18,365.68	93,296.68	45,883.61	398,920.78	6,117.8151
916010702 Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	37,692.30	3,769.23	18,484.11	8,512.73	80,458.78	1,370.0095
(Note: The volume of Type 2 excavation based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	3,618.67	361.87	1,174.89	0.00	6,202.84	234.9787
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	34,073.63	3,407.36	17,309.22	8,512.73	74,255.94	1,135.0309
916010703 Excavation and Embankment - Channel - Type 3 Oxidized Brenna	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: The volume of Type 3 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
916010704 Excavation and Embankment - Channel - Type 4 Brenna	53,290.43	5,329.04	25,894.98	11,710.67	112,844.52	1,978.0798
(Note: The volume of Type 4 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	6,416.52	641.65	2,083.29	0.00	10,985.67	416.6571
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	46,873.91	4,687.39	23,811.70	11,710.67	101,858.86	1,561.4226
916010705 Excavation and Embankment - Channel	34,221.02	3,422.10	15,257.06	5,650.76	68,046.40	1,506.8700

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	11,602.90	1,160.29	3,767.18	0.00	19,539.19	753.4350
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	22,618.12	2,261.81	11,489.88	5,650.76	48,507.21	753.4350
9160108 Dewatering and Control of Water	46,368.00	4,636.80	16,012.80	7,200.00	87,825.21	1,440.0000
(Note: The total cost of Dewatering and Control of Water is estimated to be approximately 2% of the total cost of construction of the structure.)						
MIL B-EQOPRMED Equip. Operators, Medium (Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)	32,131.20	3,213.12	12,432.00	7,200.00	64,568.17	960.0000
MIL B-LABORER Laborers, (Semi-Skilled)	14,236.80	1,423.68	3,580.80	0.00	23,257.04	480.0000
9160112 Topsoil Placement	16,283.60	1,628.36	7,994.21	3,689.64	34,224.13	590.3418
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,515.21	151.52	491.95	0.00	2,551.60	98.3903
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	14,768.38	1,476.84	7,502.26	3,689.64	31,672.53	491.9515
9160113 Site Restoration	14,484.00	1,448.40	6,680.00	3,000.00	29,664.68	600.0000
(Note: The area of site restoration was determined calculating the disturbed area from the drawings. See Consultant Appendix F-Drawings for specific areas.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	3,080.00	308.00	1,000.00	0.00	5,186.70	200.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	6,004.00	600.40	3,050.00	1,500.00	12,876.28	200.0000
USR Truck Driver - Articulated Truck (Note: Hennepin County MN - Davis Bacon Wage Rate)	5,400.00	540.00	2,630.00	1,500.00	11,601.70	200.0000
9160114 Miscellaneous Features	2,559.77	255.98	761.77	0.00	4,339.97	85.3333
MIL B-EQOPRLT Equip. Operators, Light	44.07	4.41	17.27	0.00	78.94	1.3333
MIL B-LABORER Laborers, (Semi-Skilled)	1,700.51	170.05	427.71	0.00	2,801.63	57.3333
MIL B-TRKDVRLT Truck Drivers, Light	815.20	81.52	316.80	0.00	1,459.39	26.6667
9160115 Snow Removal	30,020.00	3,002.00	15,250.00	7,500.00	64,381.41	1,000.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	30,020.00	3,002.00	15,250.00	7,500.00	64,381.41	1,000.0000
91602 Hydraulic Structure - Outlet to Red River of the North - Structure	1,691,387.37	169,138.74	807,350.10	298,506.76	3,608,576.80	68,079.1906

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
9160201 Earthwork - Structural	5,581.17	558.12	2,732.94	1,255.00	11,767.70	203.5556
(Note:)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	557.82	55.78	181.11	0.00	947.06	36.2222
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	5,023.35	502.33	2,551.83	1,255.00	10,820.64	167.3333
9160207 Embankment - Temporary Levee	7,806.50	780.65	3,852.74	1,796.43	16,509.73	279.5238
(Note: The volume of Type 2 excavation based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	616.00	61.60	200.00	0.00	1,041.30	40.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	7,190.50	719.05	3,652.74	1,796.43	15,468.44	239.5238
9160208 Temporary Haul Roads	20,041.39	2,004.14	8,169.43	4,503.00	40,693.01	623.8667
(Note: The volume of class V aggregate base was calculated using a typical temporary haul road cross section and road length (derived from drawing to nearest accessible roadway). Added to this was the volume of base material required to convert the temp haul road to a permanent haul road. (extra thickness). See Consultant Appendix F-Drawings for specific dimensions.)						
MIL B-EQOPRMEQ Equip. Operators, Medium (Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)	16,065.60	1,606.56	6,216.00	3,600.00	32,284.09	480.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	361.39	36.14	117.33	0.00	612.42	23.4667
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	3,614.41	361.44	1,836.10	903.00	7,796.51	120.4000
9160202 Concrete Rollway Structure	1,020,007.98	102,000.80	455,331.39	140,946.78	2,099,230.34	46,135.7705
916020201 HP 14X73 Piling	120,949.17	12,094.92	62,507.03	29,783.09	283,899.99	3,971.0780
(Note: Pile quantities were obtained from the structural design and drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	18,703.11	1,870.31	9,023.68	4,203.58	42,555.05	560.4769
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	54,313.95	5,431.40	27,875.51	12,985.48	127,515.54	1,731.3979
USR Oiler	16,757.43	1,675.74	10,033.41	4,934.46	41,578.61	657.9282

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Heavy	28,679.75	2,867.98	14,307.04	7,036.25	66,439.33	938.1667
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	2,494.91	249.49	1,267.40	623.31	5,811.45	83.1083
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
916020202 Concrete - Footing	12,523.35	1,252.34	5,662.00	2,046.00	25,875.19	532.0000
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter	3,070.57	307.06	1,575.91	734.12	6,792.51	97.8824
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Carpenter	1,633.17	163.32	787.95	367.06	3,531.62	48.9412
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Cement Mason / Concrete Finisher	1,973.16	197.32	1,069.20	486.00	4,444.13	64.8000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Laborer - ND Cass County Davis Bacon	2,993.76	299.38	972.00	0.00	5,257.77	194.4000
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Laborer - ND Cass County Davis Bacon	1,127.52	112.75	324.00	0.00	1,931.81	64.8000
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Oiler	623.27	62.33	373.18	183.53	1,474.55	24.4706
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	1,101.91	110.19	559.76	275.29	2,442.79	36.7059
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
916020203 Concrete - Piers	722,831.20	72,283.12	291,266.49	71,664.17	1,406,280.63	36,633.8889
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter	42,644.95	4,264.50	21,886.63	10,195.64	94,422.77	1,359.4183
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Carpenter	21,170.97	2,117.10	10,214.35	4,758.24	45,782.21	634.4314
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Cement Mason / Concrete Finisher	206,116.05	20,611.61	111,688.50	50,767.50	464,233.79	6,769.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	312,768.87	31,276.89	101,548.33	0.00	549,298.49	20,309.6667
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	117,780.60	11,778.06	33,845.00	0.00	201,797.10	6,769.0000
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	8,045.52	804.55	4,817.21	2,369.12	19,034.47	315.8824
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	14,304.24	1,430.42	7,266.48	3,573.68	31,711.79	476.4902
916020204 Steel Reinforcement Bars	156,220.04	15,622.00	92,055.85	35,637.28	365,799.65	4,751.6369
(Note: Rebar quantities were obtained from the structural design and drawings. The amount of rebar was determined by the bar type and spacing in a particular concrete section. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	106,335.32	10,633.53	64,304.56	23,595.12	250,219.63	3,146.0155
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	22,525.47	2,252.55	12,860.91	4,719.02	51,850.83	629.2031
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	12,434.69	1,243.47	7,445.19	3,661.57	30,077.04	488.2092
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	14,924.55	1,492.46	7,445.19	3,661.57	33,652.15	488.2092
916020206 Steel Sheetpile	6,956.92	695.69	3,586.27	1,703.75	16,279.49	227.1667
(Note: Sheet Pile quantities were obtained from the structural design and drawings. The number of sheets were determined by dividing the total wall length by the width of one sheet (1.5'). See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	3,476.84	347.68	1,784.42	831.25	8,123.29	110.8333
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,090.09	109.01	525.93	245.00	2,482.33	32.6667
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	832.02	83.20	498.17	245.00	2,063.90	32.6667
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,497.93	149.79	747.25	367.50	3,470.12	49.0000
USR Operator - Medium	60.04	6.00	30.50	15.00	139.85	2.0000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
916020207 Structural Aggregate Backfill	527.30	52.73	253.75	112.50	1,095.39	20.0000
(Note: The volume of aggregate was calculated as the base material needed for the gated structure work area and the pile caps. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	77.00	7.70	25.00	0.00	129.67	5.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	450.30	45.03	228.75	112.50	965.72	15.0000
9160203 Walls	591,928.36	59,192.84	311,366.66	139,113.21	1,339,383.37	19,381.7616
916020301 HP 14X73 Piling	110,155.82	11,015.58	56,985.97	27,191.78	258,487.74	3,625.5702
(Note: Pile quantities were obtained from the structural design and drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	18,758.56	1,875.86	9,050.43	4,216.04	42,676.18	562.1385
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	44,959.03	4,495.90	23,074.29	10,748.89	105,459.29	1,433.1855
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	16,914.31	1,691.43	10,127.33	4,980.66	41,961.48	664.0875
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	28,893.44	2,889.34	14,413.64	7,088.68	66,922.19	945.1567
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	630.48	63.05	320.28	157.52	1,468.60	21.0021
916020302 Concrete - Footing	36,271.20	3,627.12	17,967.56	7,975.00	78,795.02	1,279.0667
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	14,901.12	1,490.11	7,647.69	3,562.59	32,963.28	475.0118
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	7,925.57	792.56	3,823.84	1,781.29	17,138.54	237.5059
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,642.27	164.23	889.90	404.50	3,698.87	53.9333
USR Laborer - ND Cass County Davis Bacon	2,491.72	249.17	809.00	0.00	4,376.06	161.8000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	938.44	93.84	269.67	0.00	1,607.86	53.9333
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	3,024.64	302.46	1,810.98	890.65	7,155.83	118.7529
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	5,347.44	534.74	2,716.47	1,335.97	11,854.58	178.1294
916020303 Concrete - Wall	289,596.84	28,959.68	146,699.58	67,900.73	637,160.91	9,669.4306
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	132,900.13	13,290.01	68,208.23	31,774.02	294,079.39	4,236.5360
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	69,175.68	6,917.57	33,375.14	15,547.43	149,589.31	2,072.9902
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	4,669.00	466.90	2,530.00	1,150.00	10,515.96	153.3333
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	7,125.07	712.51	2,313.33	0.00	12,513.96	462.6667
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	2,668.00	266.80	766.67	0.00	4,571.17	153.3333
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	26,365.57	2,636.56	15,786.22	7,763.71	62,376.89	1,035.1618
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	46,693.39	4,669.34	23,719.99	11,665.57	103,514.24	1,555.4093
916020304 Steel Reinforcement	126,772.80	12,677.28	74,703.46	28,919.71	296,846.99	3,855.9607
(Note: Rebar quantities were obtained from the structural design and drawings. The amount of rebar was determined by the bar type and spacing in a particular concrete section. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	86,291.28	8,629.13	52,183.25	19,147.47	203,053.62	2,552.9965
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	18,279.45	1,827.95	10,436.65	3,829.49	42,077.03	510.5993

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	10,090.77	1,009.08	6,041.78	2,971.37	24,407.56	396.1825
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	12,111.30	1,211.13	6,041.78	2,971.37	27,308.78	396.1825
916020306 Steel Sheetpile	28,962.96	2,896.30	14,928.88	7,090.00	67,742.19	945.3333
(Note: Sheet Pile quantities were obtained from the structural design and drawings. The number of sheets were determined by dividing the total wall length by the width of one sheet (1.5'). See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	14,733.44	1,473.34	7,561.63	3,522.50	34,409.36	469.6667
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	4,449.33	444.93	2,146.67	1,000.00	10,126.75	133.3333
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	3,396.00	339.60	2,033.33	1,000.00	8,420.13	133.3333
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	6,114.00	611.40	3,050.00	1,500.00	14,156.61	200.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	270.18	27.02	137.25	67.50	629.34	9.0000
916020307 Structural Aggregate Backfill	168.74	16.87	81.20	36.00	350.52	6.4000
(Note: The volume of aggregate was calculated as the base material needed for the gated structure work area and the pile caps. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	24.64	2.46	8.00	0.00	41.49	1.6000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	144.10	14.41	73.20	36.00	309.03	4.8000
9160204 Riprap	9,859.50	985.95	5,001.80	2,454.00	21,131.08	329.6000
(Note: The volume of rip rap and Select granular aggregate was determined by the area shown on the drawings and a specified thickness. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	36.96	3.70	12.00	0.00	62.24	2.4000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	9,822.54	982.25	4,989.80	2,454.00	21,068.84	327.2000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
9160206 Fish Passage System	36,162.47	3,616.25	20,895.14	8,438.34	79,861.56	1,125.1125
(Note: The surface area of the hydraulic gates was calculated assuming gate dimensions as shown on the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	18,253.83	1,825.38	11,038.70	4,050.41	40,667.95	540.0540
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	6,444.64	644.46	3,679.57	1,350.14	14,027.87	180.0180
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	4,585.06	458.51	2,745.27	1,350.14	10,516.27	180.0180
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	6,878.94	687.89	3,431.59	1,687.67	14,649.48	225.0225
11 Levees and Floodwalls and Floodproofing	11,638,779.40	1,163,877.94	5,722,197.53	2,627,543.18	24,819,310.68	416,715.7484
1101 Tie-Back Levee - TBL East 2B (Constructed in MN)	1,790,107.18	179,010.72	870,282.69	396,953.89	3,943,792.11	65,363.2929
110101 Temporary Erosion and Sedimentation Control	26,900.06	2,690.01	7,047.49	0.00	46,874.43	1,027.1429
(Note: Historical projects referenced; 3% of construction cost)						
MIL B-LABORER Laborers, (Semi-Skilled)	23,050.06	2,305.01	5,797.49	0.00	39,998.34	777.1429
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	3,850.00	385.00	1,250.00	0.00	6,876.09	250.0000
110102 Strip and Stockpile Topsoil - Channel	24,104.46	2,410.45	11,642.54	5,201.13	52,857.08	906.8645
(Note:)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	3,286.05	328.61	1,066.90	0.00	5,884.70	213.3799
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	20,818.41	2,081.84	10,575.64	5,201.13	46,972.38	693.4846
110103 Excavation and Embankment - Tie-Back Levee	1,682,815.71	168,281.57	824,984.67	379,706.68	3,721,869.01	61,210.4429
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	162,976.44	16,297.64	52,914.43	0.00	294,082.18	10,582.8857
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,519,839.27	151,983.93	772,070.25	379,706.68	3,427,786.84	50,627.5571
110104 Topsoil Placement	22,076.68	2,207.67	10,800.69	4,951.08	48,572.76	806.8427
USR Laborer - ND Cass County Davis Bacon	2,259.16	225.92	733.49	0.00	4,034.85	146.6987

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	19,817.52	1,981.75	10,067.20	4,951.08	44,537.90	660.1440
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
110105 Access Surfacing	1,476.44	147.64	710.50	315.00	3,218.67	56.0000
USR Laborer - ND Cass County Davis Bacon	215.60	21.56	70.00	0.00	385.06	14.0000
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	1,260.84	126.08	640.50	315.00	2,833.61	42.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
110106 Site Restoration	32,733.84	3,273.38	15,096.80	6,780.00	70,400.16	1,356.0000
(Note: The area of site restoration was determined calculating the disturbed area from the drawings. See Consultant Appendix F-Drawings for specific areas.)						
USR Laborer - ND Cass County Davis Bacon	6,960.80	696.08	2,260.00	0.00	12,431.97	452.0000
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	13,569.04	1,356.90	6,893.00	3,390.00	30,495.06	452.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Truck Driver - Articulated Truck	12,204.00	1,220.40	5,943.80	3,390.00	27,473.12	452.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
1102 Tie-Back Levee - TBL Cass 17 (Constructed in ND)	719,556.31	71,955.63	344,691.14	153,306.95	1,499,875.77	26,911.2430
110201 Temporary Erosion and Sedimentation Control	17,481.41	1,748.14	4,584.65	0.00	28,686.76	669.5238
(Note: Historical projects referenced; 3% of construction cost)						
MIL B-LABORER Laborers, (Semi-Skilled)	14,914.74	1,491.47	3,751.31	0.00	24,364.52	502.8571
USR Laborer - ND Cass County Davis Bacon	2,566.67	256.67	833.33	0.00	4,322.25	166.6667
(Note: Clay County MN - Davis Bacon Wage Rate)						
110202 Strip and Stockpile Topsoil - Channel	15,059.59	1,505.96	7,273.84	3,249.48	31,473.46	566.5760
(Note:)						
USR Laborer - ND Cass County Davis Bacon	2,053.00	205.30	666.56	0.00	3,466.86	133.3120
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	13,006.59	1,300.66	6,607.28	3,249.48	28,006.60	433.2640
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
110203 Excavation and Embankment - Tie-Back Levee	651,786.28	65,178.63	316,198.38	142,524.21	1,366,881.89	24,283.0571
USR Laborer - ND Cass County Davis Bacon	81,309.36	8,130.94	26,399.14	0.00	138,766.68	5,279.8286

<u>Description</u>	<u>BaseWage</u>	<u>Overtime</u>	<u>TaxableFringe</u>	<u>Subsistence</u>	<u>Total</u>	<u>ManHours</u>
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	570,476.92	57,047.69	289,799.24	142,524.21	1,228,115.20	19,003.2286
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
110204 Topsoil Placement	13,792.71	1,379.27	6,747.88	3,093.26	28,929.94	504.0860
USR Laborer - ND Cass County Davis Bacon	1,411.44	141.14	458.26	0.00	2,376.86	91.6520
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	12,381.27	1,238.13	6,289.62	3,093.26	26,553.08	412.4340
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
110205 Site Restoration	21,436.32	2,143.63	9,886.40	4,440.00	43,903.72	888.0000
(Note: The area of site restoration was determined calculating the disturbed area from the drawings. See Consultant Appendix F-Drawings for specific areas.)						
USR Laborer - ND Cass County Davis Bacon	4,558.40	455.84	1,480.00	0.00	7,676.31	296.0000
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	8,885.92	888.59	4,514.00	2,220.00	19,056.90	296.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Truck Driver - Articulated Truck	7,992.00	799.20	3,892.40	2,220.00	17,170.52	296.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
1103 Levee - Connecting Channel - Reach 2018 (ND-23, 26)	199,282.25	19,928.23	98,340.63	45,843.75	420,789.31	7,137.5000
(Note: Quantities for a portion of the work included with Reach 2018 Diversion Channel Construction)						
110301 Excavation and Embankment - Levee - Type 1	199,282.25	19,928.23	98,340.63	45,843.75	420,789.31	7,137.5000
USR Laborer - ND Cass County Davis Bacon	15,785.00	1,578.50	5,125.00	0.00	26,633.74	1,025.0000
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	183,497.25	18,349.73	93,215.63	45,843.75	394,155.57	6,112.5000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
1104 Levee - Connecting Channel - Reach 2019 (ND-25)	825,371.57	82,537.16	407,314.75	189,892.86	1,743,719.02	29,558.9015
(Note: Quantities for a portion of the work included with Reach 2019 Diversion Channel Construction)						
110401 Excavation and Embankment - Levee - Type 1	548,240.65	54,824.07	270,542.55	126,119.65	1,157,623.45	19,635.8063
USR Laborer - ND Cass County Davis Bacon	43,425.74	4,342.57	14,099.27	0.00	73,271.46	2,819.8531
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	504,814.92	50,481.49	256,443.29	126,119.65	1,084,351.99	16,815.9532
(Note: Hennepin County MN - Davis Bacon Wage Rate)						

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
110402 Excavation and Embankment - Levee - Type 2	277,130.92	27,713.09	136,772.20	63,773.21	586,095.57	9,923.0952
(Note: The volume of Type 2 excavation based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	21,868.00	2,186.80	7,100.00	0.00	36,965.99	1,420.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	255,262.92	25,526.29	129,672.20	63,773.21	549,129.58	8,503.0952
1105 Storage Area 1	8,104,462.08	810,446.21	4,001,568.32	1,841,545.73	17,211,134.48	287,744.8110
110501 Storage Area 1 - Embankments	6,655,444.42	665,544.44	3,248,150.73	1,493,990.44	13,973,156.67	240,858.1872
11050102 Temporary Erosion and Sedimentation Control	104,554.72	10,455.47	27,855.82	0.00	173,092.10	4,190.1905
(Note: Historical projects referenced; 3% of construction cost)						
MIL B-LABORER Laborers, (Semi-Skilled)	83,251.38	8,325.14	20,939.15	0.00	137,217.45	2,806.8571
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	21,303.33	2,130.33	6,916.67	0.00	35,874.65	1,383.3333
11050103 Clearing and Grubbing	21,248.00	2,124.80	9,100.00	3,000.00	41,312.65	1,000.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	9,240.00	924.00	3,000.00	0.00	15,560.09	600.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	12,008.00	1,200.80	6,100.00	3,000.00	25,752.56	400.0000
11050104 Strip and Stockpile Topsoil	219,083.64	21,908.36	105,818.18	47,272.73	457,869.00	8,242.4242
(Note: It is assumed that the contractor will strip and salvage 12 inches of topsoil from work areas. Topsoil quantities for suitable topsoil stripping are based on channel and spoil pile plan areas multiplied by the depth of 12 inches. The estimate assumes scraper crews will strip material over the structural excavation areas and dozer crews will stockpile at the edges. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	29,866.67	2,986.67	9,696.97	0.00	50,435.10	1,939.3939
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	189,216.97	18,921.70	96,121.21	47,272.73	407,433.89	6,303.0303
11050105 Excavation and Embankment - Channel Realignment	5,927,465.22	592,746.52	2,923,203.89	1,361,063.17	12,506,530.56	212,616.8452
1105010501 Excavation and Embankment - Channel - Type 1 Non-Saturated Non-Brenna	2,923,911.90	292,391.19	1,442,648.81	672,321.43	6,170,345.95	104,761.9048

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: The volume of Type 1 excavation is based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	232,833.33	23,283.33	75,595.24	0.00	392,649.99	15,119.0476
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,691,078.57	269,107.86	1,367,053.57	672,321.43	5,777,695.96	89,642.8571
1105010502 Excavation and Embankment - Channel - Type 2 Saturated Non-Brenna	2,972,241.90	297,224.19	1,466,595.24	683,571.43	6,273,923.78	106,476.1905
(Note: The volume of Type 2 excavation based on the stratigraphic profiles developed in coordination with USACE, based on a number of soil borings performed by the Corps of Engineers. Digital 3-D grading models are developed to calculate volumes of excavations in bank cubic yards (HEI). Earthwork quantities are calculated using the average end area method using cross sections at 100 foot intervals as well as at specific stations.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	236,133.33	23,613.33	76,666.67	0.00	398,306.07	15,333.3333
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,736,108.57	273,610.86	1,389,928.57	683,571.43	5,875,617.72	91,142.8571
1105010503 Excavation and Embankment - Channel	31,311.41	3,131.14	13,959.84	5,170.31	62,260.83	1,378.7500
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	10,616.38	1,061.64	3,446.88	0.00	17,877.89	689.3750
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	20,695.04	2,069.50	10,512.97	5,170.31	44,382.93	689.3750
11050108 Topsoil Placement	200,606.06	20,060.61	98,484.85	45,454.55	421,624.87	7,272.7273
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	18,666.67	1,866.67	6,060.61	0.00	31,434.52	1,212.1212
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	181,939.39	18,193.94	92,424.24	45,454.55	390,190.35	6,060.6061
11050109 Site Restoration	179,601.60	17,960.16	82,832.00	37,200.00	367,842.02	7,440.0000
(Note: The area of site restoration was determined calculating the disturbed area from the drawings. See Consultant Appendix F-Drawings for specific areas.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	38,192.00	3,819.20	12,400.00	0.00	64,315.03	2,480.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	74,449.60	7,444.96	37,820.00	18,600.00	159,665.89	2,480.0000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Truck Driver - Articulated Truck (Note: Hennepin County MN - Davis Bacon Wage Rate)	66,960.00	6,696.00	32,612.00	18,600.00	143,861.09	2,480.0000
11050110 Miscellaneous Features	2,885.19	288.52	855.99	0.00	4,885.47	96.0000
MIL B-EQOPRLT Equip. Operators, Light	132.20	13.22	51.80	0.00	236.83	4.0000
MIL B-LABORER Laborers, (Semi-Skilled)	1,937.79	193.78	487.39	0.00	3,189.25	65.3333
MIL B-TRKDVRLT Truck Drivers, Light	815.20	81.52	316.80	0.00	1,459.39	26.6667
110503 Hydraulic Structure - Storage Area 1 - Closure/Drainage Structure (North)	724,508.83	72,450.88	376,708.80	173,777.64	1,618,988.91	23,443.3119
11050301 Hydraulic Structure - Storage Area 1 - Closure/Drainage Structure (North) - Site Work	2,280.25	228.03	867.37	240.00	4,272.81	85.3333
1105030104 Site Restoration (Note: The area of site restoration was determined calculating the disturbed area from the drawings. See Consultant Appendix F-Drawings for specific areas.)	1,158.72	115.87	534.40	240.00	2,373.17	48.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	246.40	24.64	80.00	0.00	414.94	16.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	480.32	48.03	244.00	120.00	1,030.10	16.0000
USR Truck Driver - Articulated Truck (Note: Hennepin County MN - Davis Bacon Wage Rate)	432.00	43.20	210.40	120.00	928.14	16.0000
1105030105 Miscellaneous Features	1,121.53	112.15	332.97	0.00	1,899.64	37.3333
MIL B-EQOPRLT Equip. Operators, Light	44.07	4.41	17.27	0.00	78.94	1.3333
MIL B-LABORER Laborers, (Semi-Skilled)	751.39	75.14	188.99	0.00	1,236.94	25.3333
MIL B-TRKDVRLT Truck Drivers, Light	326.08	32.61	126.72	0.00	583.76	10.6667
11050302 Hydraulic Structure - Storage Area 1 - Closure/Drainage Structure (North) - Structure	720,585.33	72,058.53	375,007.79	173,128.64	1,611,194.25	23,303.0452
1105030201 Earthwork - Structural (Note: `)	797.31	79.73	390.42	179.29	1,681.10	29.0794
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	79.69	7.97	25.87	0.00	135.29	5.1746
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	717.62	71.76	364.55	179.29	1,545.81	23.9048
1105030202 Structure and Walls	719,788.02	71,978.80	374,617.37	172,949.36	1,609,513.15	23,273.9659

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
110503020201 HP 14X73 Piling	45,358.29	4,535.83	23,453.15	11,180.35	106,423.14	1,490.7131
(Note: Pile quantities were obtained from the structural design and drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	7,354.23	735.42	3,548.19	1,652.88	16,732.58	220.3846
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	19,650.31	1,965.03	10,085.11	4,698.03	46,080.69	626.4044
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	6,606.03	660.60	3,955.32	1,945.24	16,390.43	259.3651
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	11,297.37	1,129.74	5,635.75	2,771.68	26,170.44	369.5574
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	450.35	45.03	228.77	112.51	1,049.00	15.0015
110503020202 Concrete - Footing	4,682.83	468.28	2,125.75	776.25	9,696.51	197.5000
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,180.99	118.10	606.12	282.35	2,612.51	37.6471
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	628.14	62.81	303.06	141.18	1,358.32	18.8235
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	715.58	71.56	387.75	176.25	1,611.68	23.5000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,085.70	108.57	352.50	0.00	1,906.75	70.5000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	408.90	40.89	117.50	0.00	700.58	23.5000
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	239.72	23.97	143.53	70.59	567.14	9.4118
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	423.81	42.38	215.29	105.88	939.53	14.1176
110503020203 Concrete - Wall	584,323.13	58,432.31	299,347.31	141,390.33	1,293,734.27	18,953.6445

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	279,125.26	27,912.53	143,255.23	66,733.80	617,530.64	8,897.8405
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	147,265.08	14,726.51	71,050.88	33,098.24	318,451.97	4,413.0980
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	763.28	76.33	413.60	188.00	1,719.13	25.0667
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,178.61	117.86	382.67	0.00	2,070.24	76.5333
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	436.16	43.62	125.33	0.00	747.29	25.0667
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	56,183.82	5,618.38	33,639.71	16,544.12	132,922.30	2,205.8824
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	99,370.91	9,937.09	50,479.89	24,826.18	220,292.71	3,310.1569
110503020204 Concrete - Piers	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
110503020205 Concrete - Elevated Deck	431.31	43.13	172.74	41.13	836.22	21.9355
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	88.98	8.90	45.24	20.56	195.63	2.7419
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	83.49	8.35	45.24	20.56	188.05	2.7419
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	211.13	21.11	68.55	0.00	370.79	13.7097
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	47.71	4.77	13.71	0.00	81.74	2.7419
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
110503020206 Steel Reinforcement Bars	62,130.59	6,213.06	36,611.72	14,173.37	145,482.93	1,889.7832
(Note: Rebar quantities were obtained from the structural design and drawings. The amount of rebar was determined by the bar type and spacing in a particular concrete section. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	42,290.84	4,229.08	25,574.70	9,384.06	99,515.36	1,251.2082
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	8,958.65	895.87	5,114.94	1,876.81	20,621.70	250.2416
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	4,945.43	494.54	2,961.04	1,456.25	11,962.00	194.1667
USR Operator - Heavy	5,935.68	593.57	2,961.04	1,456.25	13,383.87	194.1667

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
110503020207 Hydraulic Gates - Steel	18,081.23	1,808.12	10,447.57	4,219.17	42,194.64	562.5563
(Note: The surface area of the hydraulic gates was calculated assuming gate dimensions as shown on the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	9,126.91	912.69	5,519.35	2,025.20	21,476.71	270.0270
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	3,222.32	322.23	1,839.78	675.07	7,417.38	90.0090
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,292.53	229.25	1,372.64	675.07	5,545.17	90.0090
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	3,439.47	343.95	1,715.80	843.83	7,755.38	112.5113
110503020210 Steel Sheetpile	4,569.72	456.97	2,357.63	1,123.75	10,707.29	149.8333
(Note: Sheet Pile quantities were obtained from the structural design and drawings. The number of sheets were determined by dividing the total wall length by the width of one sheet (1.5'). See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,887.43	188.74	968.68	451.25	4,418.84	60.1667
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	845.37	84.54	407.87	190.00	1,925.63	25.3333
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	645.24	64.52	386.33	190.00	1,601.01	25.3333
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,161.66	116.17	579.50	285.00	2,691.89	38.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	30.02	3.00	15.25	7.50	69.93	1.0000
110503020211 Structural Aggregate Backfill	210.92	21.09	101.50	45.00	438.16	8.0000
(Note: The volume of aggregate was calculated as the base material needed for the gated structure work area and the pile caps. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	30.80	3.08	10.00	0.00	51.87	2.0000
USR Operator - Medium	180.12	18.01	91.50	45.00	386.29	6.0000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
11050303 Riprap	1,643.25	164.33	833.63	409.00	3,521.85	54.9333
(Note: The volume of rip rap and Select granular aggregate was determined by the area shown on the drawings and a specified thickness. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	6.16	0.62	2.00	0.00	10.37	0.4000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,637.09	163.71	831.63	409.00	3,511.47	54.5333
110504 Hydraulic Structure - Storage Area 1 - Closure/Drainage Structure (East)	724,508.83	72,450.88	376,708.80	173,777.64	1,618,988.91	23,443.3119
11050401 Hydraulic Structure - Storage Area 1 - Closure/Drainage Structure (East) - Site Work	2,280.25	228.03	867.37	240.00	4,272.81	85.3333
(Note: Most Sitework is included under Storage Area 1 Embankment)						
1105040104 Site Restoration	1,158.72	115.87	534.40	240.00	2,373.17	48.0000
(Note: The area of site restoration was determined calculating the disturbed area from the drawings. See Consultant Appendix F-Drawings for specific areas.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	246.40	24.64	80.00	0.00	414.94	16.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	480.32	48.03	244.00	120.00	1,030.10	16.0000
USR Truck Driver - Articulated Truck (Note: Hennepin County MN - Davis Bacon Wage Rate)	432.00	43.20	210.40	120.00	928.14	16.0000
1105040105 Miscellaneous Features	1,121.53	112.15	332.97	0.00	1,899.64	37.3333
MIL B-EQOPRLT Equip. Operators, Light	44.07	4.41	17.27	0.00	78.94	1.3333
MIL B-LABORER Laborers, (Semi-Skilled)	751.39	75.14	188.99	0.00	1,236.94	25.3333
MIL B-TRKDVRLT Truck Drivers, Light	326.08	32.61	126.72	0.00	583.76	10.6667
11050402 Hydraulic Structure - Storage Area 1 - Closure/Drainage Structure (East) - Structure	720,585.33	72,058.53	375,007.79	173,128.64	1,611,194.25	23,303.0452
1105040201 Earthwork - Structural	797.31	79.73	390.42	179.29	1,681.10	29.0794
(Note: `)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	79.69	7.97	25.87	0.00	135.29	5.1746
USR Operator - Medium	717.62	71.76	364.55	179.29	1,545.81	23.9048

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
1105040202 Structure and Walls	719,788.02	71,978.80	374,617.37	172,949.36	1,609,513.15	23,273.9659
110504020201 HP 14X73 Piling	45,358.29	4,535.83	23,453.15	11,180.35	106,423.14	1,490.7131
(Note: Pile quantities were obtained from the structural design and drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	7,354.23	735.42	3,548.19	1,652.88	16,732.58	220.3846
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	19,650.31	1,965.03	10,085.11	4,698.03	46,080.69	626.4044
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	6,606.03	660.60	3,955.32	1,945.24	16,390.43	259.3651
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	11,297.37	1,129.74	5,635.75	2,771.68	26,170.44	369.5574
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	450.35	45.03	228.77	112.51	1,049.00	15.0015
110504020202 Concrete - Footing	4,682.83	468.28	2,125.75	776.25	9,696.51	197.5000
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,180.99	118.10	606.12	282.35	2,612.51	37.6471
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	628.14	62.81	303.06	141.18	1,358.32	18.8235
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	715.58	71.56	387.75	176.25	1,611.68	23.5000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,085.70	108.57	352.50	0.00	1,906.75	70.5000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	408.90	40.89	117.50	0.00	700.58	23.5000
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	239.72	23.97	143.53	70.59	567.14	9.4118
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	423.81	42.38	215.29	105.88	939.53	14.1176

<u>Description</u>	<u>BaseWage</u>	<u>Overtime</u>	<u>TaxableFringe</u>	<u>Subsistence</u>	<u>Total</u>	<u>ManHours</u>
110504020203 Concrete - Wall	584,323.13	58,432.31	299,347.31	141,390.33	1,293,734.27	18,953.6445
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	279,125.26	27,912.53	143,255.23	66,733.80	617,530.64	8,897.8405
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	147,265.08	14,726.51	71,050.88	33,098.24	318,451.97	4,413.0980
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	763.28	76.33	413.60	188.00	1,719.13	25.0667
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	1,178.61	117.86	382.67	0.00	2,070.24	76.5333
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	436.16	43.62	125.33	0.00	747.29	25.0667
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	56,183.82	5,618.38	33,639.71	16,544.12	132,922.30	2,205.8824
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	99,370.91	9,937.09	50,479.89	24,826.18	220,292.71	3,310.1569
110504020204 Concrete - Piers	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Cement Mason / Concrete Finisher (Note: Hennepin County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	0.00	0.00	0.00	0.00	0.00	0.0000
USR Oiler	0.00	0.00	0.00	0.00	0.00	0.0000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
110504020205 Concrete - Elevated Deck	431.31	43.13	172.74	41.13	836.22	21.9355
(Note: Quantities for form, strip cure and concrete were derived from the structural design and the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Carpenter	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Cement Mason / Concrete Finisher	88.98	8.90	45.24	20.56	195.63	2.7419
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Cement Mason / Concrete Finisher	83.49	8.35	45.24	20.56	188.05	2.7419
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Laborer - ND Cass County Davis Bacon	211.13	21.11	68.55	0.00	370.79	13.7097
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Laborer - ND Cass County Davis Bacon	47.71	4.77	13.71	0.00	81.74	2.7419
(Note: Clay County MN - Davis Bacon Wage Rate)						
USR Oiler	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Operator - Medium	0.00	0.00	0.00	0.00	0.00	0.0000
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
110504020206 Steel Reinforcement Bars	62,130.59	6,213.06	36,611.72	14,173.37	145,482.93	1,889.7832
(Note: Rebar quantities were obtained from the structural design and drawings. The amount of rebar was determined by the bar type and spacing in a particular concrete section. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Ironworker	42,290.84	4,229.08	25,574.70	9,384.06	99,515.36	1,251.2082
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Ironworker	8,958.65	895.87	5,114.94	1,876.81	20,621.70	250.2416
(Note: Hennepin County MN - Davis Bacon Wage Rate)						
USR Oiler	4,945.43	494.54	2,961.04	1,456.25	11,962.00	194.1667
(Note: Hennepin County MN - Davis Bacon Wage Rate)						

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	5,935.68	593.57	2,961.04	1,456.25	13,383.87	194.1667
110504020207 Hydraulic Gates - Steel	18,081.23	1,808.12	10,447.57	4,219.17	42,194.64	562.5563
(Note: The surface area of the hydraulic gates was calculated assuming gate dimensions as shown on the drawings. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	9,126.91	912.69	5,519.35	2,025.20	21,476.71	270.0270
USR Ironworker (Note: Hennepin County MN - Davis Bacon Wage Rate)	3,222.32	322.23	1,839.78	675.07	7,417.38	90.0090
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	2,292.53	229.25	1,372.64	675.07	5,545.17	90.0090
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	3,439.47	343.95	1,715.80	843.83	7,755.38	112.5113
110504020210 Steel Sheetpile	4,569.72	456.97	2,357.63	1,123.75	10,707.29	149.8333
(Note: Sheet Pile quantities were obtained from the structural design and drawings. The number of sheets were determined by dividing the total wall length by the width of one sheet (1.5'). See Consultant Appendix F-Drawings for specific dimensions.)						
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,887.43	188.74	968.68	451.25	4,418.84	60.1667
USR Carpenter (Note: Hennepin County MN - Davis Bacon Wage Rate)	845.37	84.54	407.87	190.00	1,925.63	25.3333
USR Oiler (Note: Hennepin County MN - Davis Bacon Wage Rate)	645.24	64.52	386.33	190.00	1,601.01	25.3333
USR Operator - Heavy (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,161.66	116.17	579.50	285.00	2,691.89	38.0000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	30.02	3.00	15.25	7.50	69.93	1.0000
110504020211 Structural Aggregate Backfill	210.92	21.09	101.50	45.00	438.16	8.0000
(Note: The volume of aggregate was calculated as the base material needed for the gated structure work area and the pile caps. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	30.80	3.08	10.00	0.00	51.87	2.0000

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	180.12	18.01	91.50	45.00	386.29	6.0000
11050403 Riprap	1,643.25	164.33	833.63	409.00	3,521.85	54.9333
(Note: The volume of rip rap and Select granular aggregate was determined by the area shown on the drawings and a specified thickness. See Consultant Appendix F-Drawings for specific dimensions.)						
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	6.16	0.62	2.00	0.00	10.37	0.4000
USR Operator - Medium (Note: Hennepin County MN - Davis Bacon Wage Rate)	1,637.09	163.71	831.63	409.00	3,511.47	54.5333
14 Recreation Facilities	556,584.11	55,658.41	181,467.44	64,433.33	1,059,191.90	17,637.8096
Multi-Purpose Trails	291,305.90	29,130.59	91,974.47	30,902.85	548,856.88	9,259.6390
Compacted 12-inch Subgrade	34,292.05	3,429.20	11,842.47	5,324.85	67,553.56	1,064.9705
(Note: 10-foot wide trail + 3-foot shoulders each side = 16-feet. 16 ft x 5280 ft/mile x 1 ft = 84480 CF = 3,130 CY/mile)						
MIL B-EQOPRMED Equip. Operators, Medium (Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)	23,763.04	2,376.30	9,194.24	5,324.85	49,536.78	709.9803
MIL B-LABORER Laborers, (Semi-Skilled)	10,529.01	1,052.90	2,648.23	0.00	18,016.78	354.9902
Class 5 Aggregate Base	34,490.81	3,449.08	12,355.45	6,369.89	69,057.19	1,061.6476
(Note: 12 inch depth. 10-foot wide trail x 5280 ft/mile = 52800 SF/mile = 5867 SY/mile)						
MIL B-EQOPRMED Equip. Operators, Medium (Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)	21,320.01	2,132.00	8,249.00	4,777.41	44,199.58	636.9886
MIL B-LABORER Laborers, (Semi-Skilled)	6,510.02	651.00	1,583.98	0.00	10,997.44	212.3295
MIL B-TRKDVRHV Truck Drivers, Heavy	6,660.78	666.08	2,522.47	1,592.47	13,860.16	212.3295
10-foot Wide Bituminous Trail	190,953.45	19,095.35	57,088.54	15,362.90	351,709.53	6,145.1600
(Note: 6-inch depth pavement)						
MIL B-EQOPRMED Equip. Operators, Medium (Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)	68,559.50	6,855.95	26,526.61	15,362.90	142,788.78	2,048.3867
MIL B-LABORER Laborers, (Semi-Skilled)	27,092.78	2,709.28	6,592.05	0.00	46,067.92	883.6522
MIL B-LABORER Laborers, (Semi-Skilled)	95,301.17	9,530.12	23,969.88	0.00	162,852.83	3,213.1211
Turf Shoulders	26,741.55	2,674.16	9,320.27	3,429.74	51,748.50	832.2298
(Note: 3+3 = 6 feet total width.)						
Topsoil for Turf Shoulders	22,087.55	2,208.75	7,627.75	3,429.74	43,258.11	685.9487

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
MIL B-EQOPRMED Equip. Operators, Medium (Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)	15,305.80	1,530.58	5,922.02	3,429.74	31,731.23	457.2991
MIL B-LABORER Laborers, (Semi-Skilled)	6,781.75	678.17	1,705.73	0.00	11,526.88	228.6496
Seeding for Turf Shoulders	4,654.00	465.40	1,692.52	0.00	8,490.39	146.2811
(Note: Add 15% to Qty to account for areas disturbed outside Trail footprint)						
MIL B-EQOPRLT Equip. Operators, Light	2,801.04	280.10	1,097.53	0.00	5,195.96	84.7515
MIL B-LABORER Laborers, (Semi-Skilled)	912.48	91.25	229.51	0.00	1,550.94	30.7648
MIL B-TRKDVRLT Truck Drivers, Light	940.48	94.05	365.49	0.00	1,743.49	30.7648
Park Benches	2,008.89	200.89	625.00	324.27	3,868.66	62.1511
Concrete Pad for Bench	2,008.89	200.89	625.00	324.27	3,868.66	62.1511
(Note: Each pad is 4 x 8 feet)						
MIL B-CARPENTER Carpenters	526.77	52.68	166.35	121.60	1,053.71	16.2133
MIL B-CEMFINR Cement Finishers	562.28	56.23	180.45	121.60	1,118.72	16.2133
MIL B-EQOPRMED Equip. Operators, Medium (Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)	271.33	27.13	104.98	60.80	562.51	8.1067
MIL B-LABORER Laborers, (Semi-Skilled)	82.85	8.29	20.16	0.00	139.96	2.7022
MIL B-LABORER Laborers, (Semi-Skilled)	480.89	48.09	120.95	0.00	817.36	16.2133
MIL B-TRKDVRHV Truck Drivers, Heavy	84.77	8.48	32.10	20.27	176.39	2.7022
Trash Receptacles	565.00	56.50	175.78	91.20	1,088.06	17.4800
Concrete Pad for Trash Cans	565.00	56.50	175.78	91.20	1,088.06	17.4800
(Note: Each pad is 3 x 3 feet)						
MIL B-CARPENTER Carpenters	148.15	14.82	46.79	34.20	296.36	4.5600
MIL B-CEMFINR Cement Finishers	158.14	15.81	50.75	34.20	314.64	4.5600
MIL B-EQOPRMED Equip. Operators, Medium (Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)	76.31	7.63	29.53	17.10	158.21	2.2800
MIL B-LABORER Laborers, (Semi-Skilled)	23.30	2.33	5.67	0.00	39.36	0.7600
MIL B-LABORER Laborers, (Semi-Skilled)	135.25	13.52	34.02	0.00	229.88	4.5600
MIL B-TRKDVRHV Truck Drivers, Heavy	23.84	2.38	9.03	5.70	49.61	0.7600
Trail Signage	2,254.16	225.42	566.96	0.00	3,831.38	76.0000
(Note: Assume about 4 info signs per mile)						

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
MIL B-LABORER Laborers, (Semi-Skilled)	2,254.16	225.42	566.96	0.00	3,831.38	76.0000
Soft Trails	163,995.19	16,399.52	57,237.81	26,293.62	323,199.49	5,081.8861
Compacted 12-inch Subgrade	45,121.12	4,512.11	15,582.20	7,006.38	88,886.26	1,401.2769
(Note: 10-foot wide trail + 3-foot shoulders each side = 16-feet. 16 ft x 5280 ft/mile x 1 ft = 84480 CF = 3,130 CY/mile)						
MIL B-EQOPRMED Equip. Operators, Medium	31,267.16	3,126.72	12,097.69	7,006.38	65,179.97	934.1846
(Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)						
MIL B-LABORER Laborers, (Semi-Skilled)	13,853.96	1,385.40	3,484.51	0.00	23,706.29	467.0923
Class 5 Aggregate Base	38,121.42	3,812.14	13,656.03	7,040.40	76,326.37	1,173.4000
(Note: 6 inch depth. 10-foot wide trail x 5280 ft/mile = 52800 SF/mile = 5867 SY/mile)						
MIL B-EQOPRMED Equip. Operators, Medium	23,564.22	2,356.42	9,117.32	5,280.30	48,852.17	704.0400
(Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)						
MIL B-LABORER Laborers, (Semi-Skilled)	7,195.29	719.53	1,750.71	0.00	12,155.07	234.6800
MIL B-TRKDVRHV Truck Drivers, Heavy	7,361.91	736.19	2,788.00	1,760.10	15,319.13	234.6800
10-foot Wide Aggregate Trail	37,373.94	3,737.39	13,388.26	6,902.35	74,829.77	1,150.3922
(Note: 4 inch depth. 10-foot wide trail x 5280 ft/mile = 52800 SF/mile = 5867 SY/mile)						
MIL B-EQOPRMED Equip. Operators, Medium	23,102.18	2,310.22	8,938.55	5,176.76	47,894.28	690.2353
(Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)						
MIL B-LABORER Laborers, (Semi-Skilled)	7,054.20	705.42	1,716.39	0.00	11,916.74	230.0784
MIL B-TRKDVRHV Truck Drivers, Heavy	7,217.56	721.76	2,733.33	1,725.59	15,018.75	230.0784
Turf Shoulders	35,186.25	3,518.63	12,263.52	4,512.82	68,090.13	1,095.0393
(Note: 3+3 = 6 feet total width.)						
Topsoil for Turf Shoulders	29,062.56	2,906.26	10,036.51	4,512.82	56,918.57	902.5641
MIL B-EQOPRMED Equip. Operators, Medium	20,139.21	2,013.92	7,792.14	4,512.82	41,751.62	601.7094
(Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)						
MIL B-LABORER Laborers, (Semi-Skilled)	8,923.35	892.34	2,244.38	0.00	15,166.95	300.8547
Seeding for Turf Shoulders	6,123.69	612.37	2,227.00	0.00	11,171.57	192.4752
(Note: Add 15% to Qty to account for areas disturbed outside Trail footprint)						
MIL B-EQOPRLT Equip. Operators, Light	3,685.58	368.56	1,444.12	0.00	6,836.79	111.5152
MIL B-LABORER Laborers, (Semi-Skilled)	1,200.64	120.06	301.98	0.00	2,040.71	40.4800
MIL B-TRKDVRLT Truck Drivers, Light	1,237.47	123.75	480.90	0.00	2,294.07	40.4800

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
Park Benches	2,643.27	264.33	822.36	426.67	5,090.34	81.7778
Concrete Pad for Bench	2,643.27	264.33	822.36	426.67	5,090.34	81.7778
(Note: Each pad is 4 x 8 feet)						
MIL B-CARPENTER Carpenters	693.12	69.31	218.88	160.00	1,386.47	21.3333
MIL B-CEMTERFINR Cement Finishers	739.84	73.98	237.44	160.00	1,472.01	21.3333
MIL B-EQOPRMEQ Equip. Operators, Medium	357.01	35.70	138.13	80.00	740.14	10.6667
(Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)						
MIL B-LABORER Laborers, (Semi-Skilled)	109.01	10.90	26.52	0.00	184.16	3.5556
MIL B-LABORER Laborers, (Semi-Skilled)	632.75	63.27	159.15	0.00	1,075.47	21.3333
MIL B-TRKDVRHV Truck Drivers, Heavy	111.54	11.15	42.24	26.67	232.09	3.5556
Trash Receptacles	2,583.19	258.32	779.44	405.00	4,935.33	80.0000
Concrete Pad for Trash Cans	2,583.19	258.32	779.44	405.00	4,935.33	80.0000
(Note: Each pad is 3 x 3 feet)						
MIL B-CARPENTER Carpenters	812.25	81.23	256.50	187.50	1,624.77	25.0000
MIL B-CEMTERFINR Cement Finishers	867.00	86.70	278.25	187.50	1,725.01	25.0000
MIL B-EQOPRMEQ Equip. Operators, Medium	100.41	10.04	38.85	22.50	208.17	3.0000
(Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)						
MIL B-LABORER Laborers, (Semi-Skilled)	30.66	3.07	7.46	0.00	51.79	1.0000
MIL B-LABORER Laborers, (Semi-Skilled)	741.50	74.15	186.50	0.00	1,260.32	25.0000
MIL B-TRKDVRHV Truck Drivers, Heavy	31.37	3.14	11.88	7.50	65.28	1.0000
Trail Signage	2,966.00	296.60	746.00	0.00	5,041.29	100.0000
(Note: Assume about 4 info signs per mile)						
MIL B-LABORER Laborers, (Semi-Skilled)	2,966.00	296.60	746.00	0.00	5,041.29	100.0000
Trailhead Facilities	25,617.76	2,561.78	8,485.68	2,144.74	48,061.40	850.8586
Picnic Tables	4,426.91	442.69	1,383.55	640.00	8,443.44	152.6667
Tables	462.00	46.20	150.00	0.00	807.93	30.0000
USR Laborer - ND Cass County Davis Bacon	462.00	46.20	150.00	0.00	807.93	30.0000
(Note: Clay County MN - Davis Bacon Wage Rate)						
Concrete Pad for Tables	3,964.91	396.49	1,233.55	640.00	7,635.51	122.6667
(Note: Each pad is 8 x 10 feet)						

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
MIL B-CARPENTER Carpenters	1,039.68	103.97	328.32	240.00	2,079.70	32.0000
MIL B-CEMFINR Cement Finishers	1,109.76	110.98	356.16	240.00	2,208.01	32.0000
MIL B-EQOPRMED Equip. Operators, Medium	535.52	53.55	207.20	120.00	1,110.21	16.0000
(Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)						
MIL B-LABORER Laborers, (Semi-Skilled)	163.52	16.35	39.79	0.00	276.24	5.3333
MIL B-LABORER Laborers, (Semi-Skilled)	949.12	94.91	238.72	0.00	1,613.21	32.0000
MIL B-TRKDVRHV Truck Drivers, Heavy	167.31	16.73	63.36	40.00	348.14	5.3333
Park Benches	1,268.77	126.88	394.73	204.80	2,443.36	39.2533
Concrete Pad for Bench	1,268.77	126.88	394.73	204.80	2,443.36	39.2533
(Note: Each pad is 4 x 8 feet)						
MIL B-CARPENTER Carpenters	332.70	33.27	105.06	76.80	665.50	10.2400
MIL B-CEMFINR Cement Finishers	355.12	35.51	113.97	76.80	706.56	10.2400
MIL B-EQOPRMED Equip. Operators, Medium	171.37	17.14	66.30	38.40	355.27	5.1200
(Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)						
MIL B-LABORER Laborers, (Semi-Skilled)	52.33	5.23	12.73	0.00	88.40	1.7067
MIL B-LABORER Laborers, (Semi-Skilled)	303.72	30.37	76.39	0.00	516.23	10.2400
MIL B-TRKDVRHV Truck Drivers, Heavy	53.54	5.35	20.28	12.80	111.41	1.7067
Restroom Facility	12,830.63	1,283.06	4,609.37	442.94	23,942.62	417.9386
MIL B-CARPENTER Carpenters	1,696.03	169.60	535.59	391.51	3,494.46	52.2017
MIL B-ELECTRN Electricians	40.29	4.03	14.62	0.00	73.28	1.0909
MIL B-EQOPRCRN Equip. Operators, Heavy	2,841.00	284.10	1,083.36	0.00	5,237.09	83.6571
MIL B-EQOPRLT Equip. Operators, Light	198.30	19.83	77.70	0.00	367.85	6.0000
MIL B-EQOPROIL Equip. Operators, Oilers / Grade Checker	210.45	21.04	88.80	51.43	449.47	6.8571
(Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)						
MIL B-LABORER Laborers, (Semi-Skilled)	3,091.42	309.14	777.55	0.00	5,265.17	104.2286
MIL B-LABORER Laborers, (Semi-Skilled)	210.24	21.02	51.15	0.00	355.16	6.8571
MIL B-PLUMBER Plumbers	1,724.15	172.41	665.40	0.00	3,215.02	40.3027
MIL B-PLUMBER Plumbers	764.68	76.47	483.79	0.00	1,643.42	29.3027
MIL B-SHTMTLWK Sheet Metal Workers	74.71	7.47	38.47	0.00	148.90	2.1818
MIL B-SHTMTLWK Sheet Metal Workers	47.06	4.71	38.47	0.00	110.72	2.1818

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
MIL B-TERRAZZO Tile Mozaic/Terrazzo Workers	621.32	62.13	317.24	0.00	1,246.79	29.5385
MIL B-TERRAZZO Tile Mozaic/Terrazzo Workers	941.39	94.14	317.24	0.00	1,688.93	29.5385
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	369.60	36.96	120.00	0.00	646.34	24.0000
Drinking Fountains	0.00	0.00	0.00	0.00	0.00	0.0000
MIL B-PLUMBER Plumbers	0.00	0.00	0.00	0.00	0.00	0.0000
Picnic Grills	554.40	55.44	180.00	0.00	969.51	36.0000
USR Laborer - ND Cass County Davis Bacon (Note: Clay County MN - Davis Bacon Wage Rate)	554.40	55.44	180.00	0.00	969.51	36.0000
Bike Rack	1,079.76	107.98	268.56	0.00	1,831.44	36.0000
MIL B-LABORER Laborers, (Semi-Skilled)	367.92	36.79	89.52	0.00	621.53	12.0000
MIL B-LABORER Laborers, (Semi-Skilled)	711.84	71.18	179.04	0.00	1,209.91	24.0000
Trash Receptacles	929.95	92.99	280.60	145.80	1,776.72	28.8000
Concrete Pad for Trash Cans	929.95	92.99	280.60	145.80	1,776.72	28.8000
(Note: Each pad is 3 x 3 feet)						
MIL B-CARPENTER Carpenters	292.41	29.24	92.34	67.50	584.92	9.0000
MIL B-CEMFINR Cement Finishers	312.12	31.21	100.17	67.50	621.00	9.0000
MIL B-EQOPRMED Equip. Operators, Medium (Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)	36.15	3.61	13.99	8.10	74.94	1.0800
MIL B-LABORER Laborers, (Semi-Skilled)	11.04	1.10	2.69	0.00	18.65	0.3600
MIL B-LABORER Laborers, (Semi-Skilled)	266.94	26.69	67.14	0.00	453.72	9.0000
MIL B-TRKDVRHV Truck Drivers, Heavy	11.29	1.13	4.28	2.70	23.50	0.3600
Recycling Receptacles	359.80	35.98	111.38	57.80	691.98	11.1333
Concrete Pad for Trash Cans	359.80	35.98	111.38	57.80	691.98	11.1333
(Note: Each pad is 3 x 3 feet)						
MIL B-CARPENTER Carpenters	97.47	9.75	30.78	22.50	194.97	3.0000
MIL B-CEMFINR Cement Finishers	104.04	10.40	33.39	22.50	207.00	3.0000
MIL B-EQOPRMED Equip. Operators, Medium (Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)	42.84	4.28	16.58	9.60	88.82	1.2800
MIL B-LABORER Laborers, (Semi-Skilled)	13.08	1.31	3.18	0.00	22.10	0.4267

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
MIL B-LABORER Laborers, (Semi-Skilled)	88.98	8.90	22.38	0.00	151.24	3.0000
MIL B-TRKDVRHV Truck Drivers, Heavy	13.38	1.34	5.07	3.20	27.85	0.4267
Information Kiosks	4,167.55	416.75	1,257.50	653.40	7,962.33	129.0667
MIL B-CARPENTER Carpenters	1,310.43	131.04	413.82	302.50	2,621.29	40.3333
MIL B-CEMFINR Cement Finishers	1,398.76	139.88	448.91	302.50	2,783.01	40.3333
MIL B-EQOPRMED Equip. Operators, Medium	161.99	16.20	62.68	36.30	335.84	4.8400
(Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)						
MIL B-LABORER Laborers, (Semi-Skilled)	1,196.29	119.63	300.89	0.00	2,033.32	40.3333
MIL B-LABORER Laborers, (Semi-Skilled)	49.46	4.95	12.04	0.00	83.56	1.6133
MIL B-TRKDVRHV Truck Drivers, Heavy	50.61	5.06	19.17	12.10	105.31	1.6133
Parking Lots	60,708.17	6,070.82	19,134.28	3,390.67	110,936.66	1,976.8159
Car Parking Areas	24,491.39	2,449.14	7,588.68	979.73	44,223.45	803.0870
(Note: There are 4 Aggregate Surface Car Parking Lots at 800 SY each)						
Compacted 12-inch Subgrade	615.84	61.58	212.67	95.63	1,213.17	19.1254
(Note: 800 SY at 12 inches = compacted 267 CY per parking lot)						
MIL B-EQOPRMED Equip. Operators, Medium	426.75	42.68	165.12	95.63	889.61	12.7503
(Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)						
MIL B-LABORER Laborers, (Semi-Skilled)	189.09	18.91	47.56	0.00	323.56	6.3751
Aggregate Sub-Base	970.59	97.06	347.69	179.25	1,943.30	29.8752
(Note: 800 SY at 7 inches for each parking lot)						
MIL B-EQOPRMED Equip. Operators, Medium	599.95	60.00	232.13	134.44	1,243.79	17.9251
(Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)						
MIL B-LABORER Laborers, (Semi-Skilled)	183.19	18.32	44.57	0.00	309.47	5.9750
MIL B-TRKDVRHV Truck Drivers, Heavy	187.44	18.74	70.98	44.81	390.03	5.9750
Aggregate Base	815.39	81.54	292.09	150.59	1,632.56	25.0980
(Note: 800 SY at 4 inch depth for each parking lot.)						
MIL B-EQOPRMED Equip. Operators, Medium	504.02	50.40	195.01	112.94	1,044.91	15.0588
(Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)						
MIL B-LABORER Laborers, (Semi-Skilled)	153.90	15.39	37.45	0.00	259.99	5.0196
MIL B-TRKDVRHV Truck Drivers, Heavy	157.47	15.75	59.63	37.65	327.66	5.0196

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
Aggregate Surface Course	815.39	81.54	292.09	150.59	1,632.56	25.0980
(Note: 800 SY at 2 inch depth for each parking lot.)						
MIL B-EQOPRMED Equip. Operators, Medium	504.02	50.40	195.01	112.94	1,044.91	15.0588
(Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)						
MIL B-LABORER Laborers, (Semi-Skilled)	153.90	15.39	37.45	0.00	259.99	5.0196
MIL B-TRKDVRHV Truck Drivers, Heavy	157.47	15.75	59.63	37.65	327.66	5.0196
Barrier Posts	17,978.00	1,797.80	5,360.00	0.00	31,499.47	600.0000
(Note: for 800 SY parking lot assume about 50 posts for each lot)						
MIL B-LABORER Laborers, (Semi-Skilled)	11,864.00	1,186.40	2,984.00	0.00	20,165.15	400.0000
MIL B-TRKDVRLT Truck Drivers, Light	6,114.00	611.40	2,376.00	0.00	11,334.32	200.0000
Signs	701.19	70.12	192.05	0.00	1,218.60	23.3143
MIL B-EQOPRLT Equip. Operators, Light	60.43	6.04	23.68	0.00	112.11	1.8286
MIL B-LABORER Laborers, (Semi-Skilled)	528.80	52.88	133.00	0.00	908.16	17.8286
MIL B-LABORER Laborers, (Semi-Skilled)	56.06	5.61	13.64	0.00	94.71	1.8286
MIL B-TRKDVRLT Truck Drivers, Light	55.90	5.59	21.72	0.00	103.63	1.8286
Site Work	2,476.05	247.61	855.08	384.48	4,854.74	76.8960
MIL B-EQOPRMED Equip. Operators, Medium	1,715.81	171.58	663.87	384.48	3,560.89	51.2640
(Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)						
MIL B-LABORER Laborers, (Semi-Skilled)	760.25	76.02	191.21	0.00	1,293.85	25.6320
Trash Receptacles	118.95	11.89	37.01	19.20	229.07	3.6800
Concrete Pad for Trash Cans	118.95	11.89	37.01	19.20	229.07	3.6800
(Note: Each pad is 3 x 3 feet)						
MIL B-CARPENTER Carpenters	31.19	3.12	9.85	7.20	62.39	0.9600
MIL B-CEMTEFINR Cement Finishers	33.29	3.33	10.68	7.20	66.24	0.9600
MIL B-EQOPRMED Equip. Operators, Medium	16.07	1.61	6.22	3.60	33.31	0.4800
(Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)						
MIL B-LABORER Laborers, (Semi-Skilled)	4.91	0.49	1.19	0.00	8.29	0.1600
MIL B-LABORER Laborers, (Semi-Skilled)	28.47	2.85	7.16	0.00	48.40	0.9600
MIL B-TRKDVRHV Truck Drivers, Heavy	5.02	0.50	1.90	1.20	10.44	0.1600
Car / Trailer Parking Areas	36,216.78	3,621.68	11,545.60	2,410.94	66,713.21	1,173.7289

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
(Note: There are 2 Aggregate Surface Car/Trailer Parking Lots at 4000 SY each)						
Compacted 12-inch Subgrade	1,539.60	153.96	531.69	239.07	3,032.92	47.8135
(Note: 4000 SY at 12 inches = compacted 1335 CY per parking lot)						
MIL B-EQOPRMED Equip. Operators, Medium	1,066.88	106.69	412.79	239.07	2,224.03	31.8757
(Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)						
MIL B-LABORER Laborers, (Semi-Skilled)	472.72	47.27	118.90	0.00	808.89	15.9378
Aggregate Sub-Base	2,426.46	242.65	869.22	448.13	4,858.24	74.6880
(Note: 4000 SY at 7 inches for each parking lot)						
MIL B-EQOPRMED Equip. Operators, Medium	1,499.88	149.99	580.33	336.10	3,109.49	44.8128
(Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)						
MIL B-LABORER Laborers, (Semi-Skilled)	457.99	45.80	111.43	0.00	773.68	14.9376
MIL B-TRKDVRHV Truck Drivers, Heavy	468.59	46.86	177.46	112.03	975.08	14.9376
Aggregate Base	2,038.46	203.85	730.23	376.47	4,081.39	62.7451
(Note: 4000 SY at 4 inch depth for each parking lot.)						
MIL B-EQOPRMED Equip. Operators, Medium	1,260.05	126.00	487.53	282.35	2,612.27	37.6471
(Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)						
MIL B-LABORER Laborers, (Semi-Skilled)	384.75	38.48	93.62	0.00	649.97	12.5490
MIL B-TRKDVRHV Truck Drivers, Heavy	393.66	39.37	149.08	94.12	819.16	12.5490
Aggregate Surface Course	2,038.46	203.85	730.23	376.47	4,081.39	62.7451
(Note: 4000 SY at 2 inch depth for each parking lot.)						
MIL B-EQOPRMED Equip. Operators, Medium	1,260.05	126.00	487.53	282.35	2,612.27	37.6471
(Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)						
MIL B-LABORER Laborers, (Semi-Skilled)	384.75	38.48	93.62	0.00	649.97	12.5490
MIL B-TRKDVRHV Truck Drivers, Heavy	393.66	39.37	149.08	94.12	819.16	12.5490
Barrier Posts	21,573.60	2,157.36	6,432.00	0.00	37,799.36	720.0000
(Note: for 4000 SY parking lot assume about 120 posts for each lot)						
MIL B-LABORER Laborers, (Semi-Skilled)	14,236.80	1,423.68	3,580.80	0.00	24,198.18	480.0000
MIL B-TRKDVRLT Truck Drivers, Light	7,336.80	733.68	2,851.20	0.00	13,601.18	240.0000
Signs	350.60	35.06	96.02	0.00	608.52	11.6571
MIL B-EQOPRLT Equip. Operators, Light	30.22	3.02	11.84	0.00	56.05	0.9143

<u>Description</u>	<u>BaseWage</u>	<u>Overtime</u>	<u>TaxableFringe</u>	<u>Subsistence</u>	<u>Total</u>	<u>ManHours</u>
MIL B-LABORER Laborers, (Semi-Skilled)	264.40	26.44	66.50	0.00	453.30	8.9143
MIL B-LABORER Laborers, (Semi-Skilled)	28.03	2.80	6.82	0.00	47.35	0.9143
MIL B-TRKDVRLT Truck Drivers, Light	27.95	2.79	10.86	0.00	51.81	0.9143
Site Work	6,190.13	619.01	2,137.71	961.20	12,136.84	192.2400
(Note: Assume about same yardage as Compacted Subgrade)						
MIL B-EQOPRMED Equip. Operators, Medium	4,289.52	428.95	1,659.67	961.20	8,902.22	128.1600
(Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)						
MIL B-LABORER Laborers, (Semi-Skilled)	1,900.61	190.06	478.04	0.00	3,234.63	64.0800
Trash Receptacles	59.47	5.95	18.50	9.60	114.53	1.8400
Concrete Pad for Trash Cans	59.47	5.95	18.50	9.60	114.53	1.8400
(Note: Each pad is 3 x 3 feet)						
MIL B-CARPENTER Carpenters	15.60	1.56	4.92	3.60	31.20	0.4800
MIL B-CEMTEFINR Cement Finishers	16.65	1.66	5.34	3.60	33.12	0.4800
MIL B-EQOPRMED Equip. Operators, Medium	8.03	0.80	3.11	1.80	16.65	0.2400
(Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)						
MIL B-LABORER Laborers, (Semi-Skilled)	2.45	0.25	0.60	0.00	4.14	0.0800
MIL B-LABORER Laborers, (Semi-Skilled)	14.24	1.42	3.58	0.00	24.20	0.4800
MIL B-TRKDVRHV Truck Drivers, Heavy	2.51	0.25	0.95	0.60	5.22	0.0800
Wildlife Viewing Overlooks	2,690.92	269.09	857.32	539.05	5,351.73	83.0355
MIL B-CARPENTER Carpenters	2,214.25	221.43	699.24	511.14	4,471.59	68.1518
MIL B-CARPENTER Carpenters	63.42	6.34	19.09	13.95	125.02	1.8605
MIL B-CEMTEFINR Cement Finishers	64.52	6.45	20.71	13.95	128.37	1.8605
MIL B-LABORER Laborers, (Semi-Skilled)	220.73	22.07	55.52	0.00	375.17	7.4419
MIL B-RODMAN Rodmen, (Reinforcing)	128.00	12.80	62.77	0.00	251.57	3.7209
Historic Property Markers	1,039.68	103.97	328.32	240.00	2,079.70	32.0000
MIL B-CARPENTER Carpenters	1,039.68	103.97	328.32	240.00	2,079.70	32.0000
Interpretive Signage	1,699.75	169.97	545.14	0.00	3,019.71	54.8571
MIL B-EQOPRLT Equip. Operators, Light	453.26	45.33	177.60	0.00	840.80	13.7143
MIL B-LABORER Laborers, (Semi-Skilled)	420.48	42.05	102.31	0.00	710.32	13.7143
MIL B-LABORER Laborers, (Semi-Skilled)	406.77	40.68	102.31	0.00	691.38	13.7143

Description	BaseWage	Overtime	TaxableFringe	Subsistence	Total	ManHours
MIL B-TRKDVRLT Truck Drivers, Light	419.25	41.92	162.93	0.00	777.21	13.7143
Fishing Sites	9,526.74	952.67	2,904.41	922.40	17,686.34	298.7175
Earthwork	3,123.09	312.31	966.37	0.00	5,523.02	99.3486
(Note: Assume about 100 CY per site.)						
MIL B-EQOPRCRN Equip. Operators, Heavy	1,393.23	139.32	531.28	0.00	2,566.78	41.0256
MIL B-LABORER Laborers, (Semi-Skilled)	1,729.86	172.99	435.09	0.00	2,956.24	58.3229
Concrete Structure	630.72	63.07	197.57	32.00	1,149.94	20.4000
MIL B-EQOPRCRN Equip. Operators, Heavy	113.20	11.32	43.17	0.00	209.98	3.3333
MIL B-EQOPROIL Equip. Operators, Oilers / Grade Checker	102.30	10.23	43.17	25.00	219.79	3.3333
(Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)						
MIL B-LABORER Laborers, (Semi-Skilled)	98.11	9.81	23.87	0.00	165.74	3.2000
MIL B-LABORER Laborers, (Semi-Skilled)	284.74	28.47	71.62	0.00	483.96	9.6000
MIL B-STRSTEEL Structural Steel Workers	4.85	0.49	2.25	1.00	10.38	0.1333
MIL B-STRSTEEL Structural Steel Workers	27.52	2.75	13.50	6.00	60.09	0.8000
Granular Structure Base	97.25	9.73	26.80	0.00	167.87	3.2000
(Note: Assume about 10 CY per structure)						
MIL B-EQOPRLT Equip. Operators, Light	17.63	1.76	6.91	0.00	32.70	0.5333
MIL B-LABORER Laborers, (Semi-Skilled)	16.35	1.64	3.98	0.00	27.62	0.5333
MIL B-LABORER Laborers, (Semi-Skilled)	63.27	6.33	15.91	0.00	107.55	2.1333
Trash Receptacles	118.95	11.89	37.01	19.20	229.07	3.6800
Concrete Pad for Trash Cans	118.95	11.89	37.01	19.20	229.07	3.6800
(Note: Each pad is 3 x 3 feet)						
MIL B-CARPNTER Carpenters	31.19	3.12	9.85	7.20	62.39	0.9600
MIL B-CEMFINR Cement Finishers	33.29	3.33	10.68	7.20	66.24	0.9600
MIL B-EQOPRMED Equip. Operators, Medium	16.07	1.61	6.22	3.60	33.31	0.4800
(Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)						
MIL B-LABORER Laborers, (Semi-Skilled)	4.91	0.49	1.19	0.00	8.29	0.1600
MIL B-LABORER Laborers, (Semi-Skilled)	28.47	2.85	7.16	0.00	48.40	0.9600
MIL B-TRKDVRHV Truck Drivers, Heavy	5.02	0.50	1.90	1.20	10.44	0.1600
Information Kiosks	5,556.73	555.67	1,676.66	871.20	10,616.44	172.0889

<u>Description</u>	<u>BaseWage</u>	<u>Overtime</u>	<u>TaxableFringe</u>	<u>Subsistence</u>	<u>Total</u>	<u>ManHours</u>
MIL B-CARPENTER Carpenters	1,747.24	174.72	551.76	403.33	3,495.05	53.7778
MIL B-CEMFINR Cement Finishers	1,865.01	186.50	598.55	403.33	3,710.68	53.7778
MIL B-EQOPRMEQ Equip. Operators, Medium (Note: BARR - Added \$7.50/hr for each laborer to include per diem rate)	215.99	21.60	83.57	48.40	447.79	6.4533
MIL B-LABORER Laborers, (Semi-Skilled)	1,595.05	159.50	401.18	0.00	2,711.09	53.7778
MIL B-LABORER Laborers, (Semi-Skilled)	65.95	6.60	16.05	0.00	111.42	2.1511
MIL B-TRKDVRHV Truck Drivers, Heavy	67.48	6.75	25.56	16.13	140.42	2.1511

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