



HENEGHAN AND ASSOCIATES, P.C.

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Addendum No. 1

Washington County Water Company
Egyptian Water Company
Proposed Phase IV Water Main Extensions

H&A File No. 00760-441

November 26, 2019

The Contract Documents prepared by Heneghan & Associates, P.C. for the Egyptian Water Company – Proposed Phase IV Water Main Extensions, dated August 2019, are hereby amended or clarified as follows:

PROJECT SPECIFICATIONS

Changes/additions/clarifications to the project specifications are as listed below:

Bid Items:

Only bid submitted on the bid form **Bid Form Revised 11/26/2019** shall be accepted.

Bid Form – Item 56 “Unsuitable Backfill Material”, has been added. Note Section 31.11 of the Technical Specifications, which **has not** been changed.

Bid Form – Item 57 “Erosion Control Drainage Check”, Item 58 “Silt Retention Fence”, Item 59 “Temporary Seeding & Mulching”, and Item 60 “Erosion Control Blanket” have been added. Note Section 31.09 of the Technical Specifications, which **has not** been changed.

Technical Provisions:

“Randolph County Prevailing Wage Rates posted on 11/1/19” are attached and are incorporated hereby into the Contract Documents.

“NPDES Permit No. ILR10 SWPPP for the Washington County Water Company’s Proposed Egyptian Water Company Phase IV Water Main Extension” is attached and is incorporated hereby into the Contract Documents.

Section 10 of the Technical Specifications has been changed. The revised Section 10 is attached and incorporated hereby into the Contract Documents.

Section 51.09.05 Valve Boxes is hereby revised as follows: Valve boxes shall be 6” diameter PVC, Schedule 40 or approved equal. PVC valve boxes shall be one piece (no joints). During final cleanup, they shall be cut down to the desired final height as determined during final grading and cleanup. Note the requirement per the specifications for the inclusion of a Gate Valve Adaptor as manufactured by Adaptor, Inc. Valve box covers shall be ductile iron, top hat style, and specifically manufactured to fit over 6” PVC pipe valve boxes.

□ 838 East McCord
Centralia, IL 62801
(P) 618-533-6525
(F) 618-533-6652

□ 310A Vision Drive
Columbia, IL 62236
(P) 618-281-8133
(F) 618-281-8290

□ 5213D Mae Drive
Godfrey, IL 62035
(P) 618-466-8076
(F) 618-466-8078

□ 1004 State Highway 16
Jerseyville, IL 62052
(P) 618-498-6418
(F) 618-498-6410

“DEDICATING OUR SERVICES TO STRENGTHEN CLIENT TRUST”

Minimum thickness of the covers shall be 3/16 inch. The word WATER shall be cast in the cover. Valve box covers shall be Sigma Curb Box VB-284 or approved equal.

Section 55.02.F Add the following: Meter boxes shall be Sigma Raven HDPE Model RMP2024-W or approved equal. Interior coating shall be white. Wall thickness shall be such that when buried, it will support an incidental traffic load of H20 with an appropriate traffic rated lid. To be considered "or equal", shop drawings will need to be accompanied by a sample 36" high x 20" diameter meter box, for review by the OWNER.

Section 55.02G Replace existing Paragraph Section .02G with the following: Meter box covers shall be Star Pipe Products #20 Meter Box, MB-0004, or approved equal. No locking device shall be provided. Lid shall fit snugly inside the meter box and overlap the top circular edge. Shop drawings will need to be accompanied by a sample meter box and for review by the OWNER.


Plans:

No changes.

GENERAL

Attached are the Pre-Bid meeting minutes and attendance list from the Pre-Bid meeting held November 13, 2019, 10:00a.m. at Washington County Water Company's office, 17575 Connecticut Road, Nashville, IL. The Minutes are made a part of this Addendum, and the items stated in the Minutes shall be followed.

End of Addendum.



Craig A. Olsen, P.E.
Heneghan & Associates, P.C.

Washington County Water Company
Egyptian Phase 4 Water Main Extensions
Pre-Bid Meeting Minutes

Wednesday, November 13, 2019, 2:00 P.M.

Introductions: Present were:

<u>Name</u>	<u>Representing</u>
Steve Fletcher	Washington County Water Company
Matt Engele	Washington County Water Company
Lindsey Bowlin	Heneghan & Associates
Craig Olsen	Heneghan & Associates
Sheila Gergen	Bridger Daylighting
Luke Borrenpohl	Haier Plumbing & Heating
Bob Schroeder	Red Dot Construction
Kurt Schroeder	Red Dot Construction

Egyptian Water Company Status:

Egyptian Water Company is a subsidiary of Washington County Water Company. P.O. Box addresses are different. (P.O. Box 284 for Washington County Water Company versus P.O.Box 304 for Egyptian Water Company.) Both are Nashville, Illinois 62263. The mail is picked up at both boxes by the same personnel at the same time.

Egyptian Water Company initially started as a subsidiary of Egyptian Electric Coop. After starting operations, Egyptian hired Washington County Water Company to perform operational tasks, and eventually billing, operations and maintenance. Eventually, Egyptian Electric Coop desired to divest itself of Egyptian Water, and reached agreement with Washington County Water Company (and with USDA Rural Development approval) to transfer ownership of Egyptian Water Company to Washington County Water Company.

Scope of the Egyptian Phase 4 Project:

The project involves the construction of approximately 40 miles of water main in rural areas of Randolph County. There are approximately 100 customer services to construct. Customer count could grow to 120. Due to terrain and elevation, there are 3 different PVC classification ratings (SDR 26, 21, and 17). System pressure in low ground elevations in the southern part of the project will see static pressure in the range of 170 psi.

Question was asked about pressure testing at 1.5 times working pressure in the areas of high pressure. The specifications do call for 1.5 times working pressure. In very high

pressure/low ground level locations, we will need to use judgement about how high to take the test pressure and not exceed manufacturer's recommendations.

Changes during construction are anticipated, because typically residents change their minds about receiving water service when they see the construction actually happening. Typically, additional customers sign up in time to be added to the plans (budget permitting).

The Water Company has obtained easements from landowners for approximately 80% of the project footage. The Water Company will continue efforts to get easements signed. (The easements are donated by the landowners. There is no compensation for easements on Rural Development funded projects. The Water Company does not have eminent domain authority.) Where easements cannot be obtained, the plan is to construct the water main on public road rights-of-way. Permits have been signed with Randolph County and Road Districts 1 & 2.

There are no water main extensions along IDOT routes. There are no railroad crossings.

Easements are typically for 20 feet on the backside of the ROW, with an additional 10 feet of temporary easement for construction purposes. There are a few easements that have additional restrictions (or widths). These are noted on the Plans with an **R**.

There are a few locations where the easements **are not** adjacent to the roadway. Due to difficult terrain issues adjacent to the roadway, the proposed water main is designed to follow an alternate path. Specifically, note Sheets IV-8, 42, 46, and 45.

All public roads are to be bored. All paved driveways are to be bored. Paved driveways includes asphalt, concrete, and oil & chip.

When roads are bored, the contractor is paid for the bore footage plus the installed pipe footage. For instance: Bore 6" Water Main length of 50 LF plus 60 LF of 6" Restrained Joint PVC SDR 21.

Creeks and drainage ditches are also to be bored.

Tracer wire, flushing with pigs, disinfection are all incidental to the water main construction.

Clearing, and cleanup, are incidental to the water main construction. Cleared branches, small trees, etc. are to be chipped or removed from the project site. Brush piles are not acceptable UNLESS the landowner has agreed, has signed a statement to that effect, and the Representative Project Representative has been furnished a copy of said statement.

The Contractor will be charged for the water used. Per Specification 11.04, the Contractor will be charged for an amount equal to 6 times the volume of the water main installed, and a price of \$6.00 per 1,000 gallons. (Note: 4" diameter pipe contains 0.65 gallons per foot. 6" diameter pipe contains 1.47 gallons per foot.)

Select Granular Backfill (Bid Items 34, 35, and 36), paid for at a unit price per lineal foot, will be used when backfilling across all gravel driveways and field entrances. If the water main trench encroaches within 2 feet of the surface of a roadway, then select granular backfill will also be used for that location.

The southern part of the project will involve rock excavation. Note Bid Item 43 and Section 31.10 of the Technical Specifications regarding method of measurement and payment for Rock Excavation. Boulders excavated must be removed from the work site unless the landowner wants them to stay and agrees how Contractor is to stockpile them.

Timely acceptable cleanup is very important to this Project and also to future projects. Landowners who will sign easements are vital for the Water Company to be able to construct this project and future projects. Landowners need to be satisfied with the timeliness and quality of the cleanup and reseeded of their property. If landowners are not satisfied with how and when their property is cleaned up, they will not sign future easements.

Question was asked about payment method for unsuitable backfill. The Bid Form does not have a line item for Unsuitable Backfill Material. Subsequent to the Pre Bid Meeting, Engineer's decision is to provide a Pay Item for Replacement of Unsuitable Backfill Material. This will involve an Addendum modifying both Section 31.11 – "Unsuitable Backfill Material" and the Bid Form.

American Iron and Steel Provisions do not apply to this Contract. Rural Development's Letter of Conditions for this Contract was written during 2016.

Materials incorporated into the Construction Project (i.e., pipe, fittings, etc.) are exempt from Illinois sales tax.

Provided that the Contractor coordinates his activities with the Owner, and responsibly operates valves, the Owner will allow the Contractor to operate valves provided:

1. Water System Operator is notified, and concurs as to timing. The Water System Operator is impacted because of the need to issue and address boil orders.
2. Water System existing customers are timely notified of any water outages.
3. The valve operation will not cause discolored water issues and/or complaints.
4. Mitigating actions by Water Company personnel can be reasonably scheduled without necessitating after hours or weekend time.
5. Contractor personnel will follow instructions provided by the Water System Operator.

There will be an Addendum issued which will include the Randolph County prevailing wage schedule, a NPDES Storm Water Pollution Prevention Plan, and a revised Bid Form which will include additional line items regarding unsuitable backfill and the erosion control features of the NPDES Storm Water Pollution Prevention Plan.

BID FORM
Revised 11/26/2019

Washington County Water Company
Egyptian Water Company Proposed Phase 4 Water Main Extensions
00760-441

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ARTICLE 1 – BID RECIPIENT

1.01 This Bid is submitted to:

***President Ralph Timpner
Washington County Water Company
17575 Connecticut Rd, Nashville, IL 62263***

1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2 – BIDDER’S ACKNOWLEDGEMENTS

2.01 Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 90 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

ARTICLE 3 – BIDDER’S REPRESENTATIONS

3.01 In submitting this Bid, Bidder represents that:

A. Bidder has examined and carefully studied the Bidding Documents, and any data and reference items identified in the Bidding Documents, and hereby acknowledges receipt of the following Addenda:

<u>Addendum No.</u>	<u>Addendum, Date</u>
_____	_____
_____	_____
_____	_____
_____	_____

B. Bidder has visited the Site, conducted a thorough, alert visual examination of the Site and adjacent areas, and become familiar with and satisfied itself as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.

C. Bidder is familiar with and has satisfied itself as to all Laws and Regulations that may affect cost, progress, and performance of the Work.

D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or adjacent to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings, and (2) reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings.

E. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and any Site-related reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder; and (3) Bidder’s safety precautions and programs.

- F. Bidder agrees, based on the information and observations referred to in the preceding paragraph, that no further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price bid and within the times required, and in accordance with the other terms and conditions of the Bidding Documents.
- G. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
- H. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and confirms that the written resolution thereof by Engineer is acceptable to Bidder.
- I. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance and furnishing of the Work.
- J. The submission of this Bid constitutes an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article, and that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

ARTICLE 4 – BIDDER’S CERTIFICATION

4.01 Bidder certifies that:

- A. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation;
- B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;
- C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and
- D. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D:
 - 1. “corrupt practice” means the offering, giving, receiving, or soliciting of any thing of value likely to influence the action of a public official in the bidding process;
 - 2. “fraudulent practice” means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;
 - 3. “collusive practice” means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels; and
 - 4. “coercive practice” means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

ARTICLE 5 – BASIS OF BID

5.01 Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

PROJECT: Washington County Water Company- Egyptian Water Company - Phase 4

H&A FILE NO.: 00760-441

ITEMS - BASE BID "A" Revised 11/26/2019		QUANTITY	UNIT	UNIT PRICE	ESTIMATED TOTAL PRICE
1	6" PVC Pipe, CL 250, SDR 17	8,825	LF	\$	\$
2	4" PVC Pipe, CL 250, SDR 17	8,680	LF	\$	\$
3	6" PVC Pipe, CL 200, SDR 21	23,975	LF	\$	\$
4	4" PVC Pipe, CL 200, SDR 21	21,431	LF	\$	\$
5	3" PVC Pipe, CL 200, SDR 21	1,415	LF	\$	\$
6	6" PVC Pipe, CL 160, SDR 26	31,270	LF	\$	\$
7	4" PVC Pipe, CL 160, SDR 26	112,800	LF	\$	\$
8	3" PVC Pipe, CL 160, SDR 26	1,125	LF	\$	\$
9	6" Gate Valve with Box	10	EA	\$	\$
10	4" Gate Valve with Box	30	EA	\$	\$
11	3" Gate Valve with Box	2	EA	\$	\$
12	6" Gate Valve with Restrained Joints	2	EA	\$	\$
13	4" Gate Valve with Restrained Joints	8	EA	\$	\$
14	3" Gate Valve with Restrained Joints	1	EA	\$	\$
15	Bore 6" Water Main	3,030	LF	\$	\$
16	Bore 4" Water Main	4,670	LF	\$	\$
17	Bore 3" Water Main	50	LF	\$	\$
18	6" Restrained Joint PVC, CL 200, SDR 21	2,060	LF	\$	\$
19	4" Restrained Joint PVC, CL 200, SDR 21	4,660	LF	\$	\$
20	3" Restrained Joint PVC, CL 200, SDR 21	60	LF	\$	\$
21	6" Restrained Joint PVC, CL 250, SDR 17	1,020	LF	\$	\$
22	4" Restrained Joint PVC, CL 250, SDR 17	220	LF	\$	\$
23	12" PVC Casing Pipe	100	LF	\$	\$
24	10" PVC Casing Pipe	100	LF	\$	\$
25	12" Welded Steel Casing Pipe	70	LF	\$	\$
26	10" Welded Steel Casing Pipe	60	LF	\$	\$
27	Flushing Hydrant	25	EA	\$	\$
28	Remove Flushing Hydrant	5	EA	\$	\$
29	8" x 6" Tapping Sleeve with 6" Gate Valve with Box	1	EA	\$	\$
30	8" x 4" Tapping Sleeve with 4" Gate Valve with Box	1	EA	\$	\$
31	6" x 6" Tapping Sleeve with 6" Gate Valve with Box	1	EA	\$	\$
32	6" x 4" Tapping Sleeve with 4" Gate Valve with Box	1	EA	\$	\$
33	4" x 4" Tapping Sleeve with 4" Gate Valve with Box	4	EA	\$	\$
34	Granular Backfill for 6" Water Main	420	LF	\$	\$
35	Granular Backfill for 4" Water Main	1,380	LF	\$	\$
36	Granular Backfill for 3" Water Main	20	LF	\$	\$
37	5/8" x 3/4" Service Connection w/Pressure Regulator	88	EA	\$	\$
38	5/8" x 3/4" Service Connection	20	EA	\$	\$

39	1" P.E. Service Line	2,675	LF	\$	\$
40	1.5" P.E. Service Line	1,535	LF	\$	\$
41	2" P.E. Service Line	1,400	LF	\$	\$
42	Service Line Bore	1,500	LF	\$	\$
43	Rock Excavation	300	CY	\$	\$
44	6" D.I. Tee	7	EA	\$	\$
45	6" D.I.Elbow - 90 Degree	19	EA	\$	\$
46	6" D.I. Elbow - 45 Degree or 22 Degree	6	EA	\$	\$
47	4" D.I. Elbow - 90 Degree	18	EA	\$	\$
48	4" D.I. Elbow - 45 Degree or 22 Degree	6	EA	\$	\$
49	3" D.I. Elbow - 90 Degree	1	EA	\$	\$
50	3" D.I. Elbow - 45 Degree or 22 Degree	1	EA	\$	\$
51	6" D.I. Reducer	7	EA	\$	\$
52	4" D.I. Reducer	2	EA	\$	\$
53	Valve Marker	58	EA	\$	\$
54	1" Service Connection w/Pressure Regulator	1	EA	\$	\$
55	4" D.I. Tee	19	EA	\$	\$
56	Unsuitable Backfill Material	2,000	LF	\$	\$
57	Erosion Control Drainage Check	50	EA	\$	\$
58	Silt Retention Fence	100	LF	\$	\$
59	Temporary Seeding & Mulching	1,500	LF	\$	\$
60	Erosion Control Blanket	100	LF	\$	\$
TOTAL BID AMOUNT				\$	-

Dollars

(In Words)

ARTICLE 6 – TIME OF COMPLETION

6.01 Bidder agrees that the Work will be substantially complete and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.

6.03 Bidder accepts the provisions of the Agreement as to liquidated damages.

ARTICLE 7 – ATTACHMENTS TO THIS BID

- 7.01 The following documents are submitted with and made a condition of this Bid:
- A. Required Bid security;
 - B. List of Proposed Subcontractors;
 - C. List of Proposed Suppliers;
 - D. List of Project References;
 - E. Evidence of authority to do business in the state of the Project; or a written covenant to obtain such license within the time for acceptance of Bids;

- F. Contractor's License No.: _____ [or] Evidence of Bidder's ability to obtain a State Contractor's License and a covenant by Bidder to obtain said license within the time for acceptance of Bids;
- G. Required Bidder Qualification Statement with supporting data; and
- H. If bid amount exceeds \$10,000, signed Compliance Statement (RD400-6). Refer to specific equal opportunity requirements set forth in the Supplemental General Conditions;
- I. If Bid amount exceeds \$25,000, signed Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – Lower Tier Covered Transactions (AD-1048);
- J. If Bid amount exceeds \$100,000, signed RD Instructions 1940-Q, Exhibit A-1, Certification for Contracts, Grants, and Loans.

ARTICLE 8 – DEFINED TERMS

8.01 The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

ARTICLE 9 – BID SUBMITTAL

BIDDER: *[Indicate correct name of bidding entity]*

By: _____
[Signature]

[Printed name]
(If Bidder is a corporation, a limited liability company, a partnership, or a joint venture, attach evidence of authority to sign.)

Attest: _____
[Signature]

[Printed name]

Title: _____

Submittal Date: _____

Address for giving notices:

Telephone Number: _____

Fax Number: _____

Contact Name and e-mail address: _____

Bidder's License No.: _____

Randolph County Prevailing Wage Rates posted on 11/1/19

Trade Title	Rg	Type	C	Base	Foreman	Overtime				H/W	Pension	Vac	Trng	Other Ins
						M-F	Sa	Su	Hol					
ASBESTOS ABT-GEN	All	ALL		30.06	30.56	1.5	1.5	2.0	2.0	7.53	18.08	0.00	0.80	
ASBESTOS ABT-MEC	All	BLD		31.75	32.75	1.5	1.5	2.0	2.0	8.00	6.25	2.00	0.55	
BOILERMAKER	All	BLD		36.54	39.04	1.5	1.5	2.0	2.0	7.07	24.08	1.50	1.05	
BRICK MASON	All	BLD		31.25	33.13	1.5	1.5	2.0	2.0	9.35	10.00	0.00	0.88	
CARPENTER	All	ALL		39.58	41.08	1.5	1.5	2.0	2.0	7.42	9.25	0.00	0.50	0.50
CEMENT MASON	All	BLD		30.83	32.33	1.5	1.5	2.0	2.0	9.35	8.21	0.00	0.50	
CEMENT MASON	All	HWY		29.61	30.61	1.5	1.5	2.0	2.0	9.35	8.24	0.00	0.40	
CERAMIC TILE FINISHER	All	BLD		29.75	29.75	1.5	1.5	2.0	2.0	9.35	10.00	0.00	0.88	
ELECTRIC PWR EQMT OP	NW	ALL		45.57	54.94	1.5	1.5	2.0	2.0	6.95	12.76	0.00	0.46	
ELECTRIC PWR EQMT OP	SE	ALL	1	42.59	57.10	1.5	1.5	2.0	2.0	7.25	11.93	0.00	0.43	
ELECTRIC PWR EQMT OP	SE	ALL	2	31.24	57.10	1.5	1.5	2.0	2.0	7.25	10.64	0.00	0.38	
ELECTRIC PWR GRNDMAN	NW	ALL		34.02	54.94	1.5	1.5	2.0	2.0	5.19	9.54	0.00	0.34	
ELECTRIC PWR GRNDMAN	SE	ALL		31.24	57.10	1.5	1.5	2.0	2.0	7.25	8.75	0.00	0.31	
ELECTRIC PWR LINEMAN	NW	ALL		52.41	54.94	1.5	1.5	2.0	2.0	7.99	14.69	0.00	0.52	
ELECTRIC PWR LINEMAN	SE	ALL		53.47	57.10	1.5	1.5	2.0	2.0	7.25	14.97	0.00	0.54	
ELECTRIC PWR TRK DRV	NW	ALL		37.20	54.94	1.5	1.5	2.0	2.0	5.68	10.42	0.00	0.37	
ELECTRICIAN	NW	ALL		41.83	44.34	1.5	1.5	2.0	2.0	7.99	12.40	0.00	1.15	2.51
ELECTRICIAN	SE	ALL		44.62	46.87	1.5	1.5	2.0	2.0	8.67	13.39	0.00	0.89	
ELECTRONIC SYSTEM TECH	NW	BLD		35.28	37.28	1.5	1.5	2.0	2.0	4.00	9.87	0.00	0.40	
ELECTRONIC SYSTEM TECH	SE	BLD		35.89	37.89	1.5	1.5	2.0	2.0	7.77	6.10	0.00	0.40	
ELEVATOR CONSTRUCTOR	All	BLD		50.09	56.35	2.0	2.0	2.0	2.0	15.57	17.51	4.50	0.62	
FLOOR LAYER	All	BLD		34.21	34.96	1.5	1.5	2.0	2.0	7.42	9.25	0.00	0.50	0.50
GLAZIER	All	BLD		35.91	37.91	1.5	1.5	2.0	2.0	6.25	11.23	0.00	0.68	
HEAT/FROST INSULATOR	All	BLD		38.86	39.96	1.5	1.5	2.0	2.0	10.50	12.86	0.00	0.75	0.05
IRON WORKER	All	ALL		34.50	36.50	1.5	1.5	2.0	2.0	10.46	17.00	0.00	0.42	
LABORER	All	ALL		29.56	30.06	1.5	1.5	2.0	2.0	7.53	18.08	0.00	0.80	
MACHINIST	All	BLD		48.93	51.43	1.5	1.5	2.0	2.0	7.68	8.95	1.85	1.32	
MARBLE FINISHER	All	BLD		29.75	29.75	1.5	1.5	2.0	2.0	9.35	10.00	0.00	0.88	
MARBLE MASON	All	BLD		31.25	33.13	1.5	1.5	2.0	2.0	9.35	10.00	0.00	0.88	
MILLWRIGHT	All	ALL		39.58	41.08	1.5	1.5	2.0	2.0	7.42	9.25	0.00	0.50	0.50
OPERATING ENGINEER	All	BLD	1	38.80	41.80	1.5	1.5	2.0	2.0	13.35	18.65	0.00	1.05	

OPERATING ENGINEER	All	BLD	2	37.67	41.80	1.5	1.5	2.0	2.0	13.35	18.65	0.00	1.05	
OPERATING ENGINEER	All	BLD	3	33.19	41.80	1.5	1.5	2.0	2.0	13.35	18.65	0.00	1.05	
OPERATING ENGINEER	All	BLD	4	33.25	41.80	1.5	1.5	2.0	2.0	13.35	18.65	0.00	1.05	
OPERATING ENGINEER	All	BLD	5	32.92	41.80	1.5	1.5	2.0	2.0	13.35	18.65	0.00	1.05	
OPERATING ENGINEER	All	BLD	6	41.35	41.80	1.5	1.5	2.0	2.0	13.35	18.65	0.00	1.05	
OPERATING ENGINEER	All	BLD	7	41.65	41.80	1.5	1.5	2.0	2.0	13.35	18.65	0.00	1.05	
OPERATING ENGINEER	All	BLD	8	41.93	41.80	1.5	1.5	2.0	2.0	13.35	18.65	0.00	1.05	
OPERATING ENGINEER	All	BLD	9	39.80	41.80	1.5	1.5	2.0	2.0	13.35	18.65	0.00	1.05	
OPERATING ENGINEER	All	HWY	1	37.30	40.30	1.5	1.5	2.0	2.0	13.35	18.65	0.00	1.05	
OPERATING ENGINEER	All	HWY	2	36.17	40.30	1.5	1.5	2.0	2.0	13.35	18.65	0.00	1.05	
OPERATING ENGINEER	All	HWY	3	31.69	40.30	1.5	1.5	2.0	2.0	13.35	18.65	0.00	1.05	
OPERATING ENGINEER	All	HWY	4	31.75	40.30	1.5	1.5	2.0	2.0	13.35	18.65	0.00	1.05	
OPERATING ENGINEER	All	HWY	5	31.42	40.30	1.5	1.5	2.0	2.0	13.35	18.65	0.00	1.05	
OPERATING ENGINEER	All	HWY	6	39.85	40.30	1.5	1.5	2.0	2.0	13.35	18.65	0.00	1.05	
OPERATING ENGINEER	All	HWY	7	40.15	40.30	1.5	1.5	2.0	2.0	13.35	18.65	0.00	1.05	
OPERATING ENGINEER	All	HWY	8	40.43	40.30	1.5	1.5	2.0	2.0	13.35	18.65	0.00	1.05	
OPERATING ENGINEER	All	HWY	9	38.30	40.30	1.5	1.5	2.0	2.0	13.35	18.65	0.00	1.05	
PAINTER	All	BLD		29.86	31.36	1.5	1.5	2.0	2.0	6.25	10.93	0.00	0.55	
PAINTER	All	HWY		34.16	35.66	1.5	1.5	2.0	2.0	6.25	10.93	0.00	0.55	
PAINTER OVER 30 FT.	All	BLD		31.86	33.36	1.5	1.5	2.0	2.0	6.25	10.93	0.00	0.55	
PAINTER PWR EQMT	All	BLD		30.86	32.36	1.5	1.5	2.0	2.0	6.25	10.93	0.00	0.55	
PAINTER PWR EQMT	All	HWY		35.16	36.66	1.5	1.5	2.0	2.0	6.25	10.93	0.00	0.55	
PILEDRIVER	All	ALL		39.58	41.08	1.5	1.5	2.0	2.0	7.42	9.25	0.00	0.50	0.50
PIPEFITTER	N	BLD		40.05	42.55	1.5	1.5	2.0	2.0	9.80	6.20	0.00	1.25	
PIPEFITTER	SE	BLD		44.57	49.03	1.5	2.0	2.0	2.0	11.00	6.63	0.00	2.10	
PIPEFITTER	W	BLD		40.25	44.25	1.5	1.5	2.0	2.0	8.04	9.80	0.00	1.55	
PLASTERER	All	BLD		30.83	32.33	1.5	1.5	2.0	2.0	9.35	8.21	0.00	0.50	
PLUMBER	N	BLD		40.05	42.55	1.5	1.5	2.0	2.0	9.80	6.20	0.00	1.25	
PLUMBER	SE	BLD		44.57	49.03	1.5	2.0	2.0	2.0	11.00	6.63	0.00	2.10	
PLUMBER	W	BLD		39.35	41.85	1.5	1.5	2.0	2.0	7.70	8.00	0.00	1.25	
ROOFER	All	BLD		33.30	35.30	1.5	1.5	2.0	2.0	9.10	8.90	0.00	0.41	
SHEETMETAL WORKER	All	ALL		34.94	36.44	1.5	1.5	2.0	2.0	9.65	8.94	2.10	0.54	0.35
SPRINKLER FITTER	All	BLD		42.31	45.31	1.5	2.0	2.0	2.0	8.72	12.95	0.00	1.10	
STONE MASON	All	BLD		31.25	33.13	1.5	1.5	2.0	2.0	9.35	10.00	0.00	0.88	
TERRAZZO FINISHER	All	BLD		29.75	29.75	1.5	1.5	2.0	2.0	9.35	10.00	0.00	0.88	
TERRAZZO MASON	All	BLD		31.25	33.13	1.5	1.5	2.0	2.0	9.35	10.00	0.00	0.88	

TRUCK DRIVER	All	ALL	1	38.17	42.29	1.5	1.5	2.0	2.0	13.00	6.60	0.00	0.25
TRUCK DRIVER	All	ALL	2	38.71	42.29	1.5	1.5	2.0	2.0	13.00	6.60	0.00	0.25
TRUCK DRIVER	All	ALL	3	39.01	42.29	1.5	1.5	2.0	2.0	13.00	6.60	0.00	0.25
TRUCK DRIVER	All	ALL	4	39.34	42.29	1.5	1.5	2.0	2.0	13.00	6.60	0.00	0.25
TRUCK DRIVER	All	ALL	5	40.39	42.29	1.5	1.5	2.0	2.0	13.00	6.60	0.00	0.25
TRUCK DRIVER	All	O&C	1	30.54	33.83	1.5	1.5	2.0	2.0	13.00	6.60	0.00	0.25
TRUCK DRIVER	All	O&C	2	30.97	33.83	1.5	1.5	2.0	2.0	13.00	6.60	0.00	0.25
TRUCK DRIVER	All	O&C	3	31.21	33.83	1.5	1.5	2.0	2.0	13.00	6.60	0.00	0.25
TRUCK DRIVER	All	O&C	4	31.47	33.83	1.5	1.5	2.0	2.0	13.00	6.60	0.00	0.25
TRUCK DRIVER	All	O&C	5	32.31	33.83	1.5	1.5	2.0	2.0	13.00	6.60	0.00	0.25
TUCKPOINTER	All	BLD		31.25	33.13	1.5	1.5	2.0	2.0	9.35	10.00	0.00	0.88

Legend

Rg Region

Type Trade Type - All,Highway,Building,Floating,Oil & Chip,Rivers

C Class

Base Base Wage Rate

OT M-F Unless otherwise noted, OT pay is required for any hour greater than 8 worked each day, Mon through Fri. The number listed is the multiple of the base wage.

OT Sa Overtime pay required for every hour worked on Saturdays

OT Su Overtime pay required for every hour worked on Sundays

OT Hol Overtime pay required for every hour worked on Holidays

H/W Health/Welfare benefit

Vac Vacation

Trng Training

Other Ins Employer hourly cost for any other type(s) of insurance provided for benefit of worker.

Explanations RANDOLPH COUNTY

ELECTRICIANS AND ELECTRONIC SYSTEMS TECHNICIAN (NORTHWEST) - Township of Red Bud.

PLUMBERS & PIPEFITTERS (NORTH) - Towns of Red Bud, Prairie, and Ruma.

PLUMBERS & PIPEFITTERS (SOUTHEAST) - That part of the county East of a line between Ste. Genevieve, Mo. and Rt. 155 then south of a diagonal line to the North-East corner of the county.

PLUMBERS & PIPEFITTERS (WEST) - Towns of Roots, Kellog, Modoc and Prairie DuRocher.

The following list is considered as those days for which holiday rates of wages for work performed apply: New Years Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, Christmas Day and Veterans Day in some classifications/counties. Generally, any of these holidays which fall on a Sunday is celebrated on the following Monday. This then makes work performed on that Monday payable at the appropriate overtime rate for holiday pay. Common practice in a given local may alter certain days of celebration. If in doubt, please check with IDOL.

Oil and chip resealing (O&C) means the application of road oils and liquid asphalt to coat an existing road surface, followed by application of aggregate chips or gravel to coated surface, and subsequent rolling of material to seal the surface.

EXPLANATION OF CLASSES

ASBESTOS - GENERAL - removal of asbestos material/mold and hazardous materials from any place in a building, including mechanical systems where those mechanical systems are to be removed. This includes the removal of asbestos materials/mold and hazardous materials from ductwork or pipes in a building when the building is to be demolished at the time or at some close future date. ASBESTOS - MECHANICAL - removal of asbestos material from mechanical systems, such as pipes, ducts, and boilers, where the mechanical systems are to remain.

CERAMIC TILE FINISHER, MARBLE FINISHER, TERRAZZO FINISHER

Assisting, helping or supporting the tile, marble and terrazzo mechanic by performing their historic and traditional work assignments required to complete the proper installation of the work covered by said crafts. The term "Ceramic" is used for naming the classification only, and is in no a limitation of the product handled. Ceramic takes into consideration most hard tiles.

ELECTRONIC SYSTEMS TECHNICIAN

Installation, service and maintenance of low-voltage systems which utilizes the transmission and/or transference of voice, sound, vision, or digital for commercial, education, security and entertainment purposes for the following: TV monitoring and surveillance, background/foreground music, intercom and telephone interconnect, field programming, inventory control systems, microwave transmission, multi-media, multiplex, radio page, school, intercom and sound burglar alarms and low voltage master clock systems.

Excluded from this classification are energy management systems, life safety systems, supervisory controls and data acquisition systems not intrinsic with the above listed systems, fire alarm systems, nurse call systems and raceways exceeding fifteen feet in length.

OPERATING ENGINEER - BUILDING

GROUP I. Cranes, Dragline, Shovels, Skimmer Scoops, Clamshells or Derrick Boats, Pile Drivers, Crane-Type Backhoes, Asphalt Plant Operators, Concrete Plant Operators, Dredges, Asphalt Spreading Machines, All Locomotives, Cable Ways or Tower Machines, Hoists, Hydraulic Backhoes, Ditching Machines or Backfiller, Cherrypickers, Overhead Cranes, Roller - Steam or Gas, Concrete Pavers, Excavators, Concrete Breakers, Concrete Pumps, Bulk Cement Plants, Cement Pumps, Derrick-Type Drills, Boat Operators, Motor Graders or Pushcats, Scoops or Tournapulls, Bulldozers, Endloaders or Fork Lifts, Power Blade or Elevating Graders, Winch Cats, Boom or Winch Trucks or Boom Tractors, Pipe Wrapping or Painting Machines, Asphalt Plant Engineer, Journeyman Lubricating Engineer, Drills (other than Derrick Type), Mud Jacks, or Well Drilling Machines, Boring Machines or Track Jacks, Mixers, Conveyors (Two), Air Compressors (Two), Water Pumps regardless of size (Two), Welding Machines (Two), Siphons or Jets (Two), Winch Heads or Apparatuses (Two), Light Plants (Two), All Tractors regardless of size (straight tractor only), Fireman on Stationary Boilers, Automatic Elevators, Form Grading Machines, Finishing Machines, Power Sub-Grader or Ribbon Machines, Longitudinal Floats, Distributor Operators on Trucks, Winch Heads or Apparatuses (One), Mobil Track air and heaters (two to five), Heavy Equipment Greaser, Relief Operator, Assistant Master Mechanic and Heavy Duty Mechanic, self-propelled concrete saws of all types and sizes with their attachments, gob-hoppers, excavators all sizes, the repair and greasing of all diesel hammers, the operation and set-up of bidwells, water blasters of all sizes and their clutches, hydraulic jacks where used for hoisting, operation of log skidders, iceolators used on and off of pipeline, condor cranes, bow boats, survey boats, bobcats and all their attachments, skid steer loaders and all their attachments, creter cranes, batch plants, operator (all sizes), self propelled roto mills, operation of conveyor systems of any size and any configuration, operation, repair and service of all vibratory hammers, all power pacs and their controls regardless of location, curtains or brush burning machines, stump cutter machines, Nail launchers when mounted on a machine or self-propelled, operation of con-cover machines, and all Operators except those listed below).

GROUP II. Assistant Operators.

GROUP III. Air Compressors (One), Water Pumps, regardless of Size (One), Waterblasters (one), Welding Machine (One), Mixers (One Bag), Conveyor (One), Siphon or Jet (One), Light Plant (One), Heater (One), Immobile Track Air (One), and Self Propelled Walk-Behind Rollers.

GROUP IV. Asphalt Spreader Oilers, Fireman on Whirlies and Heavy Equipment Oilers, Truck Cranes, Dredges, Monigans, Large Cranes - (Over 65-ton rated capacity) Concrete Plant Oiler, Blacktop Plant Oiler, and Creter Crane Oiler (when required).

GROUP V. Oiler.

GROUP VI. Operators on equipment with Booms, including jibs, 100 feet and over, and less than 150 feet long.

GROUP VII. Operators on equipment with Booms, including jibs, 150 feet and over, and less than 200 feet long.

GROUP VIII. Operators on Equipment with Booms, including jibs, 200 feet and over; Tower Cranes; and Whirlie Cranes.

GROUP IX. Master Mechanic

OPERATING ENGINEERS - Highway

GROUP I. Cranes, Dragline, Shovels, Skimmer Scoops, Clamshells or Derrick Boats, Pile Drivers, Crane-Type Backhoes, Asphalt Plant Operators, Concrete Plant Operators, Dredges, Asphalt Spreading Machines, All Locomotives, Cable Ways or Tower Machines, Hoists, Hydraulic Backhoes, Ditching Machines or Backfiller, Cherrypickers, Overhead Cranes, Roller - Steam or Gas, Concrete Pavers, Excavators, Concrete Breakers, Concrete Pumps, Bulk Cement Plants, Cement Pumps, Derrick-Type Drills, Boat Operators, Motor Graders or Pushcats, Scoops or Tournapulls, Bulldozers, Endloaders or Fork Lifts, Power Blade or Elevating Graders, Winch Cats, Boom or Winch Trucks or Boom Tractors, Pipe Wrapping or Painting Machines, Asphalt Plant Engineer, Journeyman Lubricating Engineer, Drills (other than Derrick Type), Mud Jacks, Well Drilling Machines, Boring Machines, Track Jacks, Mixers, Conveyors (Two), Air Compressors (Two), Water Pumps regardless of size (Two), Welding Machines (Two), Siphons or Jets (Two), Winch Heads or Apparatuses (Two), Light Plants (Two), All Tractors regardless of size (straight tractor only), Fireman on Stationary Boilers, Automatic Elevators, Form Grading Machines, Finishing Machines, Power Sub-Grader or Ribbon Machines, Longitudinal Floats, Distributor Operators on Trucks, Winch Heads or Apparatuses (One), Mobil Track air and heaters (two to five), Heavy Equipment Greaser, Relief Operator, Assistant Master Mechanic and Heavy Duty Mechanic, self-propelled concrete saws of all types and sizes with their attachments, gob-hoppers, excavators all sizes, the repair and greasing of all diesel hammers, the operation and set-up of bidwells, water blasters of all sizes and their clutches, hydraulic jacks where used for hoisting, operation of log skidders, iceolators used on and off of pipeline, condor cranes, bow boats, survey boats, bobcats and all their attachments, skid steer loaders and all their attachments, creter cranes, batch plants, operator (all sizes), self propelled roto mills, operation of conveyor systems of any size and any configuration, operation, repair and service of all vibratory hammers, all power pacs and their controls regardless of location, curtains or brush burning machines, stump cutter machines, Nail launchers when mounted on a machine or self-propelled, operation of con-cover machines, and all Operators (except those listed below).

GROUP II. Assistant Operators.

GROUP III. Air Compressors (One), Water Pumps, regardless of Size (One), Waterblasters (one), Welding Machine (One), Mixers (One Bag), Conveyor (One), Siphon or Jet (One), Light Plant (One), Heater (One), Immobile Track Air (One), and Self Propelled Walk-Behind Rollers.

GROUP IV. Asphalt Spreader Oilers, Fireman on Whirlies and Heavy Equipment Oilers, Truck Cranes, Dredges, Monigans, Large Cranes - (Over 65-ton rated capacity) Concrete Plant Oiler, Blacktop Plant Oiler, and Creter Crane Oiler (when required).

GROUP V. Oiler.

GROUP VI. Operators on equipment with Booms, including jibs, 100 feet and over, and less than 150 feet long.

GROUP VII. Operators on equipment with Booms, including jibs, 150 feet and over, and less than 200 feet long.

GROUP VIII. Operators on Equipment with Booms, including jibs, 200 feet and over; Tower Cranes; and Whirlie Cranes.

GROUP IX. Mechanic

TRUCK DRIVER - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION Class 1. Drivers on 2 axle trucks hauling less than 9 ton. Air compressor and welding machines and brooms, including those pulled by separate units, truck driver helpers, warehouse employees, mechanic helpers, greasers and tiremen, pickup trucks when hauling materials, tools, or workers to and from and on-the-job site, and fork lifts up to 6,000 lb. capacity.

Class 2. Two or three axle trucks hauling more than 9 ton but hauling less than 16 ton. A-frame winch trucks, hydrolift trucks, vactor trucks or similar equipment when used for transportation purposes. Fork lifts over 6,000 lb. capacity, winch trucks, four axle combination units, and ticket writers.

Class 3. Two, three or four axle trucks hauling 16 ton or more. Drivers on water pulls, articulated dump trucks, mechanics and working forepersons, and dispatchers. Five axle or more combination units.

Class 4. Low Boy and Oil Distributors.

Class 5. Drivers who require special protective clothing while employed on hazardous waste work.

TRUCK DRIVER - OIL AND CHIP RESEALING ONLY.

This shall encompass laborers, workers and mechanics who drive contractor or subcontractor owned, leased, or hired pickup, dump, service, or oil distributor trucks. The work includes transporting materials and equipment (including but not limited to, oils, aggregate supplies, parts, machinery and tools) to or from the job site; distributing oil or liquid asphalt and aggregate; stock piling material when in connection with the actual oil and chip contract. The Truck Driver (Oil & Chip Resealing) wage classification does not include supplier delivered materials.

Other Classifications of Work:

For definitions of classifications not otherwise set out, the Department generally has on file such definitions which are available. If a task to be performed is not subject to one of the classifications of pay set out, the Department will upon being contacted state which neighboring county has such a classification and provide such rate, such rate being deemed to exist by reference in this document. If no neighboring county rate applies to the task, the Department shall undertake a special determination, such special determination being then deemed to have existed under this determination. If a project requires these, or any classification not listed, please contact IDOL at 217-782-1710 for wage rates or clarifications.

LANDSCAPING

Landscaping work falls under the existing classifications for laborer, operating engineer and truck driver. The work performed by landscape plantsman and landscape laborer is covered by the existing classification of laborer. The work performed by landscape operators (regardless of equipment used or its size) is covered by the classifications of operating engineer. The work performed by landscape truck drivers (regardless of size of truck driven) is covered by the classifications of truck driver.

- On August 7, 2018, IDOL published changes to the HT/Frost Insulator classification in Alexander County, the Sheetmetal Worker classification in Alexander, Bond, Clay, Clinton, Crawford, Edwards, Effingham, Fayette, Franklin, Gallatin, Greene, Hamilton, Hardin, Jackson, Jasper, Jefferson, Jersey, Johnson, Lawrence, Macoupin, Madison, Marion, Massac, Monroe, Montgomery, Perry, Pope, Pulaski, Randolph, Saline, St. Clair, Union, Wabash, Washington, Wayne, White, and Williamson

Counties, and the Iron Worker trade in Richland County.

General Information

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General Information

Section 10

10.01. ABBREVIATIONS

ADD	Addition	INF	Inflow
AI	Area Inlet	INV	Invert
ANSI	American National Standards Institute	IPS	Iron Pipe Size
ASA	American Standards Association	LA	Lane
ASTM	American Society for Testing and Materials	LF	Lineal Foot
ATG	Adjust to Grade	MAX	Maximum
AVE	Avenue	MH	Manhole
AWWA	American Water Works Association	MJ	Mechanical Joint
BC	Back of Curb	MIN	Minimum
BM	Benchmark	MIP	Male Iron Pipe
BK	Book	N/F	Now and Former
BLVD	Boulevard	NO	Number
BLDG	Building	PG	Page
BPS	Booster Pump Station	PVMT	Pavement
CB	County Highway Bore	POC	Point of Commencement
CL	Centerline	POB	Point of Beginning
CJ	Construction Joint	PC	Point of Curvature (Roads)
CONC	Concrete	PC	Pressure Class (Water and Sewer)
CMP	Corrugated Metal Pipe	PE	Polyethylene
CF	Cubic Foot	PI	Point of Intersection
CY	Cubic Yard	PT	Point of Tangent
CI	Curb Inlet (Roads)	PVC	Polyvinyl Chloride
CI	Cast Iron (Water and Sewer)	PE	Private Entrance (Roads)
CIOD	Cast Iron Outside Diameter	PE	Polyethylene Pipe
CTS	Copper Tube Size	PL	Property Line
DR	Drive	PS	Pipe Stiffness
DI	Ductile Iron	RR	Railroad
ESMT	Easement	RCP	Reinforced Concrete Pipe
EJ	Expansion Joint	ROW	Right of Way
FT	Feet	RPR	Resident Project Representative
FES	Flared End Section	SAN	Sanitary
FB	Flat Bottom	SB	State Highway Bore
FL	Flow Line	SDR	Standard Dimension Ratio
FIP	Female Iron Pipe	SF	Square Feet
GI	Grated Inlet	SY	Square Yard
GST	Ground Storage Tank	STA	Station
HDPE	High-Density Polyethylene Pipe	SWPPP	Storm Water Pollution Prevention Plan
IDOT	Illinois Department of Transportation	TB	Township Road Bore
IHPA	Illinois Historic Preservation Agency	TBM	Temporary Bench Mark
IN	Inches	TYP	Typical

TOC	Top of Curve	TSM	Temporary Seed and Mulch
TOA	Top of Asphalt	UFR	Uni-Flange Restraint
TBR	To Be Removed	VCP	Vitreous Clay Pipe
TBR&R	To Be Removed and Replaced		

10.02. AWWA SPECIFICATIONS TITLES

- C-104-ANSI A21.4-Standard for Cement-Mortar Lining
- C-105-ANSI A21.5-Standard for Polyethylene Encasement for Ductile-Iron Pipe Systems
- C-110-ANSI A21.10-Standard for Ductile-Iron and Gray-Iron Fittings
- C-111-ANSI A21.11-Standard for Rubber-Gasket Joints for Ductile-Iron Pressure Pipe and Fittings
- C-115-ANSI A21.15-Standard for Flanged Ductile Iron Pipe with Threaded Flanges
- C-150-ANSI A21.50-Standard for Thickness Design for Ductile-Iron Pipe
- C-151-ANSI A21.51-Standard for Ductile-Iron Pipe, Centrifugally Cast
- C-153-ANSI A21.53-Standard for Ductile-Iron Compact Fittings for Water Service
- C-502-Standard for Dry-Barrel Fire Hydrants
- C-509-Standard for Resilient –Seated Gate Valves for Water Supply Service
- C-515-Standard for Reduced-Wall, Resilient-Seated Gate Valves for Water Supply Service
- C-550-Protective Epoxy Interior Coating for Valves and Hydrants
- C-606-Standard for Grooved and Shouldered Joints

10.03. REQUIRED SUBMITTALS

On Submittals, please mark the product model number and the options and/or sizes you will be using. Also, please mark all standards required in the specifications. If the specifications are not marked up, preferably by highlighter, then they will be returned as rejected. Please provide a copy of all standards that a material references for our review and concurrence. The minimum number of submittals is 4, one for the CONTRACTOR and 3 to remain with the ENGINEER. The ENGINEER will not make copies of the submittals to return to the CONTRACTOR.

10.03.01 Water Main

WATER MAIN		Manufacturer	Model No.	Equal Accepted	Section	Submittal Required
1	Anchor Coupling	---	---	---	51.09.15	YES
2	Casing	---	---	---		YES
3	Casing Spacers				51.09.17	
	a	Water main 6-inch or smaller	CCI Pipeline Systems or equal	---	YES	YES
	b	Water main larger than 6-inch	Cascade Waterworks Mfg. Co, BWM Co. or equal	---	YES	YES

4		Combination Air Release Valve				51.09.07		
	a	1"	APCO Valve and Primer Combination, Val-Matic or equal	143C or 201C *	YES		YES	
	b	2"	APCO Valve and Primer Combination, Val-Matic or equal	145C or 202C *	YES		YES	
5		Copper Tracer Wire				51.09.10		
	a	Bores	Copperhead Industries, Inc. or equal	1245EHS	YES		YES	
	b	Trenching		1430HS	YES		YES	
	c	Connectors		3WB-01	YES		YES	
6		End Seals	Method to be approved by OWNER and ENGINEER					YES
7		Fittings				51.07		
	a	Ductile Iron - Compact Fittings	Tyler/Union, US or equal	---	YES		YES	
	b	Ductile Iron - Flanged Fittings	Tyler/Union, US or equal	---	YES		YES	
	c	RJ-PVC Expansion Coupling	---	---	---		YES	
	d	HDPE Fittings	---	---	---		YES	
8		Gate Valves				51.09.04		
	a	3 inch to 12 inch	Mueller, American Flow OR Equal	Mueller A-2360-20	YES		YES	
	b	14 inch and up	Mueller, American Flow OR Equal	Mueller A-2361-20	YES		YES	
9		Hydrants				59.09.02		
	a	2 1/4" Flushing Hydrant	Kupferle Foundry, Mueller, M&H or equal	A-411	YES		YES	
	b	4 1/2" Flushing Hydrant	Mueller, Kennedy, M&H or equal	Mueller A-420, Super Centurion 250	YES		YES	
10		Pipe						
	a	HDPE	---	---	---	51.06	YES	
	b	PVC	---	---	---	51.03	YES	
	c	Restrained Joint PVC	---	---	---	51.04	YES	
	d	Ductile Iron	---	---	---	51.05	YES	
	e	Restrained Joint Ductile Iron	Griffin or equal	Snap-Lok	YES	51.05.C	YES	
	f	Ductile Iron River Crossing Pipe	Griffin or equal	River Crossing Pipe	YES	51.05.D	YES	
	g	Copper Service Line	---	---	---	51.09.01	YES	
	h	PE Service Line	---	---	---	51.09.01	YES	
11		Pipe Restraining				51.09.14		
	a	Ductile Iron	Ford/Uni-Flange or equal (MegaLug is not an equal)	Series 1500	YES		YES	
	b	PVC	Ford/Uni-Flange or equal	Series 1400	YES		YES	
12		Saddle	Mueller, Ford or equal	---	YES	51.10.03		
13		Sampling Station	Kupferle Foundry or equal	Eclipse No. 88	YES	51.09.09	YES	
14		Stainless Steel	Smith OR Blair OR Ford	---	YES	51.09.12	YES	

15		Tracer Wire Access					
	a	Marker	Rhino or equal	TVPT90BB2	YES	51.09.11	YES
	b	Label	Rhino or equal	GD-1332K	YES		
16	a	Valve Box	PVC		YES	51.09.05	YES
	b	Valve Box Cover	Sigma		YES	51.09.05	YES
17		Valve Box Marker					
	a	Marker	Rhino or equal	TVPA72BB	YES	51.09.06	YES
	b	Label		GD-5194K	YES	51.09.06	YES
18		Meter Equipment					
	a	Corporation Stop - 1"	Mueller, Ford, AY McDonald or equal	---	YES	51.10.02	YES
	b	Corporation Stop - 1 1/2" & 2"	Mueller, Ford, AY McDonald or equal	---	YES	51.10.02	YES
	c	2" Gate Valve for Service Line	American Flow Control or equal	---	YES	51.10.02	YES
	d	Meter Register	See 21 Below	---	NO **		YES
	e	Pressure Regulator	Watts or equal	5M3-Z6	NO **	51.10.05	YES
19		Meter Skin/Insulation	Municipal and Contractor Ceiling Products or equal		YES	51.09.07	YES
20		Butterfly	DeZurik or Henry Pratt Co. ++	---	YES	51.09.03	YES
21		Meter				51.10.04	
	a	5/8 x 3/4 inch meter	Badger Model 25 displacement type meter, laying length of 7-1/2".		NO **		YES
	b	1 inch meter	Badger Model 55 (1" Meter), laying length of 10-3/4". The one inch (1") meters shall be provided with screwed end connections.		NO **		YES
	e	5/8 x 3/4 inch meter w/ regulator	Badger Model 25 displacement type meter, measuring 5/8" x 3/4".		NO **		YES
	f	1 inch meter w/ regulator	Badger Model 55 (1" Meter). The one inch (1") meters shall be provided with screwed end connections.		NO **		YES
	i	Radio-Read and Touch-Read Capabilities	Not Applicable	---	NO **		YES
22		Meter Yoke					
	a	5/8 x 3/4 inch & 1 inch meters	Ford, Mueller, AY McDonald	VBHH9221W4-44B	YES	51.10.06	YES
	b	5/8 x 3/4 inch & 1 inch meters w/ regulator	Ford, Mueller, AY McDonald	TVBHH9221W44-44B	YES	51.10.06	YES
	c	1 1/2 inch meters with and without regulator	Ford, Mueller, AY McDonald	VBHH76-21B-44-77-G Custom Setter with Bypass	YES	51.10.06	YES
	d	2 inch meters with and without regulators	Ford, Mueller, AY McDonald	VBFF77-21B-44-77-G Custom Setter with Bypass	YES	51.10.06	YES

23		Meter Box		All Tough Core Plus (Depth x ID)			
	a	5/8 x 3/4 inch meter	Sigma Raven	36" x 20"	YES	51.10.07	YES
	b	1 inch meter	Sigma Raven	36" x 24"	YES	51.10.07	YES
	c	1 1/2 inch meter	Sigma Raven	36" x 30"	YES	51.10.07	YES
	d	2 inch meter	Sigma Raven	36" x 36"	YES	51.10.07	YES
	e	5/8 x 3/4 inch meter w/ regulator	Sigma Raven	36" x 20"	YES	51.10.07	YES
	f	1 inch meter w/ regulator	Sigma Raven	36" x 24"	YES	51.10.07	YES
	g	1 1/2 inch meter w/ regulator	Sigma Raven	36" x 30"	YES	51.10.07	YES
	h	2 inch meter w/ regulator	Sigma Raven	36" x 36"	YES	51.10.07	YES
24		Meter Lid					
	a	5/8 x 3/4 inch meter	Star Pipe Products		YES	51.10.08	YES
	b	1 inch meter	Star Pipe Products		YES	51.10.08	YES
	c	1 1/2 inch meter	Star Pipe Products		YES	51.10.08	YES
	d	2 inch meter	Star Pipe Products		YES	51.10.08	YES
	e	5/8 x 3/4 inch meter w/ regulator	Star Pipe Products		YES	51.10.08	YES
	f	1 inch meter w/ regulator	Star Pipe Products		YES	51.10.08	YES
	g	1 1/2 inch meter w/ regulator	Star Pipe Products		YES	51.10.08	YES
	h	2 inch meter w/ regulator	Star Pipe Products		YES	51.10.08	YES

* Respectively

** no like, equivalent, or "or-equal" item or substitution permitted.

*** A.R.I. is located in Kfar charuv, 12932 Israel

++Milliken valves will not be allowed.

10.03.02 Elevated Tank

Intentionally Blank

10.03.03 Booster Pump Station

Intentionally Blank

10.03.04 Ground Storage Tank

Intentionally Blank

10.03.05 Water Treatment Plant

Intentionally Blank

10.03.06 Pressure Reducing Station

Intentionally Blank

NPDES PERMIT NO. ILR10 SWPPP
For the
Washington County Water Company Proposed
Egyptian Water Company Phase IV Water Main Extension

Location: Within Randolph County portions of: Township T4S.-R6W. Sections 19, 22, 23, 27, 31, 32. Township T4S.-R7W. Sections 24, 35, 36. Township T5S.-R5W. Sections 16, 17, 20, 21, 28, 29, 30, 31, 32, 33, 34, 35. Township T5S.-R6W. Sections 4, 5, 6, 29, 30, 31, 32. Township T5S.-R7W. Sections 1, 2, 25, 26, 28, 29, 33, 36. Township T6S.-R5W. Sections 2, 3, 4, 5, 6, 9, 10, 31. Township T6S.-R6W. Section 36. Township T6S.-R7W. Section 4. Township T7S.-R5W. Section 6, 7, 16, 17, 18, 19, 20, 21. Township T7S.-R6W. Section 1, 11, 12, 13, 14.

Owner: Washington County Water Company
17575 Connecticut Road
Nashville, IL 62263

Project Description:

The "Proposed Egyptian Water Company Phase IV Water Main Extension" project is taking place to serve additional areas of the water district. As a part of the "Proposed Phase VI Water Main Extension" project, approximately 40 miles of 3- inch, 4-inch and 6-inch PVC and RJ water main will be installed. The majority of the proposed water main will be trenched and/or bored, creating minimal disturbance.

It is estimated that 48.09 acres of yards, pasture, timber, and tillable farmland will be disturbed due to the installation of the proposed water main. Installation of the water main will not alter the existing drainage patterns. Therefore, erosion control structures will be installed only where existing topographic conditions necessitate their use. Depending on weather conditions the trench will be temporarily and/or permanently seeded within the time frame set forth under the general permit. After final stabilization, the runoff coefficient for the site will be the same as it was prior to construction.

Receiving Streams:

As the entire site encompasses approximately 400 square miles, there are numerous unnamed ditches and tributaries that carry storm water from the site to larger creeks. The named creeks that ultimately receive storm waters from the site include Little Plum Creek, Ninemile Creek, Robinson Creek, Marys River, Frickes Branch, Dry Creek, Mill Creek, Piney Branch, and ultimately the Illinois and Mississippi Rivers. Due to the type of construction, intermingling of off-site stormwater is inevitable. Such intermingling, however, will be of little consequence due to the narrow width of disturbance.

Sequence of Major Activities and Appropriate Controls Implemented:

It is anticipated that the primary erosion controls implemented will be directional boring, rip-rap berms, dirt berms and temporary/permanent seeding. However, any viable trench stabilization, slope stabilization or perimeter protection measure may be utilized in lieu of those described below.

1. Install the water main by using either the trenching or boring method.
 - A. Utilize directional boring techniques at ditch and creek crossings in highly erodible areas to eliminate soil disturbance
 - B. Install rip-rap berms or alternative ditch checks perpendicular to the trench as

- shown on the plans and/or where terrain dictates their use to prevent soil erosion in the trench.
- C. Install dirt berms on hillsides through wooded areas as shown on the Drawings and described in the Specifications.
 - D. Temporarily seed and mulch any trenched areas where soil erosion could occur, except for those areas located in farm fields, within 14 days of original excavation.
- 2 Flush and test the water main in accordance with IEPA regulations. (Note: Water main flushing is a non-storm water discharge that will occur during construction.)
- A. Flush water will be directed, through the use of hose(s), away from highly erodible soils and dissipated to prevent soil erosion. A sufficient length of hose will be used to prevent flush water from discharging onto unstabilized or otherwise highly erodible soils.
- 3 Install service connections by excavating and tapping the new water main, trenching or boring the new service line as required, and setting the meter box and internal components.
- A. Each excavation for service connections will be backfilled immediately and seeded (either temporarily or permanently) within 14 days.
- 4 After all above construction activities have been completed, any temporary erosion control measures utilized will be removed (except that temporary seeding and mulch may be worked into the soil) and the entire construction site will be graded and permanently seeded and mulched.

Compliance with Federal, State, County, and Local Regulations:

In addition to meeting the requirements of this general permit, construction activities related to the "Proposed Egyptian Water Company Phase IV Water Main Extension" shall comply with any and all Federal, State, County and Local regulations regarding storm water pollution prevention.

Maintenance Procedures:

1. Dirt Berms
 - A. It is anticipated that dirt berms will require minimal maintenance as they are in place primarily to divert the runoff water away from the trench line. However, it may be necessary to reconstruct dirt berms or add additional dirt berms on a given hillside. It will also be necessary to temporarily seed and mulch dirt berms to prevent erosion of the berm itself.
2. Temporary and Permanent Seeding:
 - A. Reseed and re-mulch any areas where initial seeding efforts did not work.
 - B. Any time it is necessary to redistribute the sediment collected against the erosion control structures it will likely also be necessary to reseed and re-mulch the same area.
3. Silt Fence:
 - A. Sediment collected against the silt fence shall be removed and redistributed any time the sediment exceeds 25% of the silt fence height.

- B. Silt fence shall be inspected for depth of sediment, tears, to ensure fabric is securely attached to fence posts, and to see that the fence posts are firmly in the ground.
4. Inlet Protection:
- A. Inlet and pipe protection shall be placed as indicated on the plans or at every storm sewer inlet/crossroad culvert entrance. All inlet and pipe protection shall be maintained by removing sediment collected and restoring to original condition. Sediment collected against the BMP shall be removed and redistributed any time the sediment exceeds 25% of the BMP's effective height.
5. Ditch Checks:
- A. Ditch checks shall be placed in the ditches as indicated on the plans or at every 1.5 foot fall/rise in ditch grade. Straw bales, hay bales, and perimeter erosion barrier/silt fence will not be permitted for temporary or permanent ditch checks. Ditch checks shall be composed of aggregate, silt panels, rolled excelsior, urethane foam/geotextile (silt wedges), earth median. Ditch checks will be maintained by removing silt build up when sediment collected against the BMP shall be removed and redistributed any time the sediment exceeds 25% of the BMP's effective height.

Construction Materials and Site Access:

All materials for construction such as PVC water main, DI fittings, concrete blocks, etc., and their related containers shall be neatly stored and wastes generated from these materials shall be properly disposed of. To the extent possible, the construction materials shall be stored at one general location in a neat and orderly fashion. This does not, however, prohibit the contractor from laying out pipe, fittings, and/or related appurtenances ahead of the excavation (as per the specifications). Any waste material generated from construction related work shall be placed in dedicated containers or otherwise properly disposed of at the end of each day.

To the extent possible, there shall be a single entrance/exit access point to the material storage site and to any other single site where the contractor will be working for an extended period of time (> 2 weeks). This access point shall consist of an all weather surface to limit the movement of sediment off site.

Inspections:

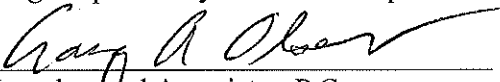
A qualified individual (as defined by the IEPA) shall observe all disturbed areas of the construction site at least once every seven (7) days and within 24-hours of a rainfall event that is 0.5 inches or greater or an equivalent snowfall. The observer shall review the usefulness of each erosion and sediment control measure implemented, shall indicate on the report and notify the contractor of any maintenance required, and shall also note any areas that appear to require additional measures to prevent erosion of disturbed soils. Any apparent revisions to the SWPPP shall be made to the plan and implemented within seven (7) calendar days following the observation. Similarly, maintenance of existing measures shall be continuous throughout the project and shall, in no instance be left unattended for more than seven (7) days after notification. Each site observation shall be finalized by writing a report summarizing the scope of the observation, name(s) and qualifications of the observer(s), date, major observations, and actions taken as a result of the findings. A copy of each report shall be attached to, and become part of, the SWPPP.

When the ground is frozen and/or between rainfall events of 0.5 inches or greater, no site visit

will be required. An inspection report, however, will still be completed at least once every seven days indicating the conditions that eliminated the need for a site visit.

Certification

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."



Heneghan and Associates, P.C.

Contractor Certification:

Contractors and/or subcontractors responsible for implementation of any of the above-mentioned erosion protection measures must sign the certification below:

"I certify under penalty of law that I understand the terms and conditions of the general National Pollutant Discharge Elimination System (NPDES) permit (ILR10) that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification."

General Contractor

Signature Date

Title

Company Name

Company Address

Company Phone

Sub-Contractor(s)

Signature Date

Title

Company Name

Company Address

Company Phone

Contractor Certification continued:

Sub-Contractor(s)

_____	_____
Signature	Date

Title	

Company Name	

Company Address	

Company Phone	

Sub-Contractor(s)

_____	_____
Signature	Date

Title	

Company Name	

Company Address	

Company Phone	