THIS SHEET SUPERSEDES SHEET RP-17A1.

CHANGES ON THIS SHEET INCLUDE ADDED TRENCH DETAIL WITH TEMPORARY PAVEMENT AND UPDATED QUANTITIES IN WATER WORKS TABLE.

DUCTILE IRON WATER MAIN
TRENCH DETAIL WITH TEMPORARY PAVEMENT

LINE LEGEND

LINE	NAME	ITEM NUMBER
●—	COPPER WATER SERVICE	663.06ZZ 663.25ZZ 663.26ZZ
— " —	PROPOSED WATER MAIN	663.01XX
[	CUT AND END CAP	663.2001

NOTE: "ZZ" INDICATES SIZE OF SERVICE, SEE SERVICE TABLE FOR SIZE AND ITEM NUMBER PER LOCATION

"XX" INDICATES SIZE OF WATER MAIN, SEE PLANS FOR WATER MAIN SIZE

ITEM NUMBERS

ITEM	DESCRIPTION	UNIT
203.03	EMBANKMENT IN PLACE	CY
203.07	SELECT GRANULAR FILL	CY
206.0201	TRENCH AND CULVERT EXCAVATION	CY
304.12	SUBBASE COURSE, TYPE 2	CY
404.4489	25 F9 TEMPORARY BINDER COURSE ASPHALT, 80 SERIES COMPACTION	TON
552.17	SHIELDS AND SHORING	SF
627.50140008	CUTTING PAVEMENT	LF
663.0104	DUCTILE IRON CEMENT LINED WATER PIPE, 4"	LF
663.0106	DUCTILE IRON CEMENT LINED WATER PIPE, 6"	LF
663.0108	DUCTILE IRON CEMENT LINED WATER PIPE, 8"	LF
663.0603	COPPER WATER SERVICE PIPE 3/4"	LF
663.0604	COPPER WATER SERVICE PIPE 1"	LF
663.0607	COPPER WATER SERVICE PIPE 2"	LF
663.1008	RESILIENT WEDGE VALVE & VALVE BOX, 8"	EACH
663.1301	HYDRANT	EACH
663.1302	HYDRANT	EACH
663.1303	HYDRANT	EACH
663.1304	HYDRANT	EACH
663.1305	HYDRANT	EACH
663.1306	HYDRANT	EACH
663.1307	HYDRANT	EACH
663.1308	HYDRANT	EACH
663.1309	HYDRANT	EACH
663.160404	TAPPING SLEEVE, VALVE & VALVE BOX ASSEMBLY, 4" X 4"	EACH
663.160606	TAPPING SLEEVE, VALVE & VALVE BOX ASSEMBLY, 6" X 6"	EACH
663.160808	TAPPING SLEEVE, VALVE & VALVE BOX ASSEMBLY, 8" X 8"	EACH
663.1708	LINE STOP FITTING, 8"	EACH
663.2001	IRON WATER MAIN FITTINGS (3 " - 8 ")	LB
663.2104	WEDGE TYPE MECHANICAL RESTRAINT GLANDS, 4"	EACH
663.2106	WEDGE TYPE MECHANICAL RESTRAINT GLANDS, 6"	EACH
663.2108	WEDGE TYPE MECHANICAL RESTRAINT GLANDS, 8"	EACH
663.2304	POLYETHYLENE ENCASEMENT FOR WATER PIPE, 4"	LF
663.2306	POLYETHYLENE ENCASEMENT FOR WATER PIPE, 6"	LF
663.2308	POLYETHYLENE ENCASEMENT FOR WATER PIPE, 8"	LF
663.2503	WATER SERVICE CONNECTION, 3/4"	EACH
663.2504	WATER SERVICE CONNECTION, 1"	EACH
663.2507	WATER SERVICE CONNECTION, 2"	EACH
663.2603	CURB STOP & CURB BOX, 3/4"	EACH
663.2604	CURB STOP & CURB BOX, 1"	EACH
663.2607	CURB STOP & CURB BOX, 2"	EACH
663.40	DISCONNECT AND CAP EXISTING WATER MAIN	EACH
663.43	REMOVE AND DISPOSE OF EXISTING HYDRANT	EACH

UTILITY NOTES

1. THE UTILITIES ARE QUALITY LEVEL B. THE LOCATIONS WHERE TEST HOLES ARE PERFORMED ARE QUALITY LEVEL A.

2. WATER CONDUITS INSTALLED PARALLEL TO STORM AND/OR SANITARY SEWER CONDUITS SHALL HAVE A MINIMUM OF 10.0 FT HORIZONTAL SEPARATION (MEASURED EDGE OF PIPE TO EDGE OF PIPE) WHENEVER POSSIBLE. WHEN 10.0 FT HORIZONTAL SEPARATION CANNOT BE MAINTAINED, A VERTICAL SEPARATION OF AT LEAST 1.5 FT BETWEEN THE TOP OR BOTTOM OF WATER MAIN AND TOP OR BOTTOM OF SEWER PIPE SHALL BE MAINTAINED. WHERE THESE CONDITIONS CANNOT BE MET, SEPARATE APPROVAL BY THE ENGINEER IS REQUIRED.

3. THE CONTRACTOR SHALL UNEARTH AND VERIFY ELEVATIONS OF OTHER EXISTING UTILITIES (SEWER LINES, CLOSED DRAINAGE SYSTEMS CULVERTS, ETC.) TO ENSURE ADEQUATE CLEARANCE FOR THE WATER LINE CAN BE ACHIEVED. WHEN CONFLICTING ELEVATIONS OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING AND ALLOW THE ENGINEER ADEQUATE TIME TO REVISE GRADES WITHOUT NECESSITATING REMOVAL AND RECONSTRUCTION OF WATER MAIN WORK ALREADY COMPLETED BY THE CONTRACTOR.

4. CONTRACTOR SHALL REFER TO SPECIAL NOTE TITLED "OWNER REQUIREMENTS FOR WATER MAIN AND APPURTENANCES" FOR SPECIFIC MATERIALS, VALVES, ETC. TO USE. ALL WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR VARIOUS CONTRACT ITEMS. CONTRACTOR SHALL ALSO FOLLOW THE DIRECTIONS LISTED ON THE "WATERLINE SHUTDOWN REQUEST FORM," WHICH IS ALSO LOCATED IN THE SPECIAL NOTE TITLED "OWNER REQUIREMENTS FOR WATER MAIN AND APPURTENANCES."

5. NECESSARY RESTRAINING OF EXISTING JOINTS SHALL MEET THE MINIMUM RESTRAINED LENGTH AS SHOWN IN THE STANDARD SHEETS AND A.D.B.E., AND SHALL BE INCLUDED UNDER THE UNIT PRICE BID FOR ITEM 663.1008.

6. ALL FITTINGS UNDER ITEM 663.2001 SHALL BE COMPACT FITTINGS.

7. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 3' OF DUCTILE IRON PIPE BETWEEN FITTINGS AND VALVES.

8. ALL DUCTILE IRON PIPE FITTINGS SHALL BE ENCASED IN POLYETHYLENE PER THE OWNERS DETAILS, FOUND IN THE SUPPLEMENTAL INFORMATION. POLYETHYLENE ENCASEMENT SHALL BE INCLUDED UNDER THE UNIT PRICE BID FOR ITEM 663.2308.

9. NO RESPONSIBILITY IS ASSUMED FOR THE POSSIBLE EXISTENCE OF SUBSURFACE UTILITIES NOT SHOWN IN THE PLANS AND NO WARRANTY IS MADE AS TO THE ACCURACY OF ANY UTILITY LINES SHOWN IN THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATIONS OF ALL EXISTING UTILITIES.

10. UPON COMPLETION OF ALL WATER SUPPLY RELATED CONSTRUCTION, ALL MAINS, VALVES, HYDRANTS AND OTHER APPURTENANCES BUILT UNDER THIS CONTRACT SHALL BE DISINFECTED, FLUSHED AND TESTED FOR BACTERIOLOGICAL QUALITY IN ACCORDANCE WITH AWWA C-651, EXCEPT THAT TABLETS SHALL NOT BE USED FOR CHLORINATION.

11. DISINFECTION AND BACTERIOLOGICAL TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA STANDARD C651-92 EXCEPT FOR SECTION 5.1.

12. ALL PRESSURE / LEAKAGE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA STANDARD C600 WITH THE MAINS THOROUGHLY FLUSHED PRIOR TO TESTING.

13. THE TOWN OF LIVERPOOL SHALL BE NOTIFIED 48 HOURS PRIOR TO THE PRESSURE TESTING OF THE WATER MAINS.

14. THE FINAL RESULTS OF MICROBIOLOGICAL TESTING OF THE WATER MAINS AND THE RESULTS OF PRESSURE TESTING SHALL BE SUBMITTED TO THE TOWN OF LIVERPOOL.

15. WATER MAINS SHALL NOT BE PLACED IN SERVICE WITHOUT THE PERMISSION OF THE TOWN OF LIVERPOOL.

16. PRIOR TO EXCAVATION, THE CONTRACTOR SHOULD CALL UDIG NY AT 811.

WATER SERVICES TABLE

STATION	OFFSET	ITEM 663.0603 COPPER WATER SERVICE, 3/4" (LF)	ITEM 663.2503 WATER SERVICE CONNECTION, 3/4" (EA)	ITEM 663.2603 CURB STOP & CURB BOX, 3/4" (EA)	ITEM 663.0604 COPPER WATER SERVICE, 1" (LF)	ITEM 663.2504 WATER SERVICE CONNECTION, 1" (EA)	ITEM 663.2604 CURB STOP & CURB BOX, 1" (EA)	ITEM 663.0607 COPPER WATER SERVICE, 2" (LF)	ITEM 663.2507 WATER SERVICE CONNECTION, 2" (EA)	ITEM 663.2607 CURB STOP & CURB BOX, 2" (EA)	PROPERTY ADDRESS	SERVICE SIZE	NOTES
WA 10+20.00		28	1	1							907 Second Street	3/4"	
WA 10+33.00		38	1	1							906 Second Street	3/4"	
WA 10+88.00		38	1	1							904 Second Street	3/4"	
WA 11+00.00		20	1	1							905 Second Street	3/4"	
WA 11+47.00		28	1	1							903 Second Street	3/4"	
WA 11+56.00		37	1	1							902 Second Street	3/4"	
WA 12+22.00		37	1	1							900 Second Street	3/4"	
WA 13+51.00		30	1	1							901 Second Street	3/4"	
WA 13+54.00		37	1	1							828 Second Street	3/4"	
WA 14+15.00		37	1	1							826 Second Street	3/4"	
WA 14+29.00		30	1	1							827 Second Street	3/4"	
WA 14+74.00		37	1	1							824 Second Street	3/4"	
WA 14+81.00		30	1	1							825 Second Street	3/4"	
WA 15+44.00		30	1	1							823 Second Street	3/4"	
WA 15+47.00		37	1	1							822 Second Street	3/4"	
WA 16+06.00		37	1	1							820 Second Street	3/4"	
WA 16+12.00		30	1	1							821 Second Street	3/4"	
WA 16+61.00		36	1	1							818 Second Street	3/4"	
WA 16+72.00		30	1	1							819 Second Street	3/4"	
WA 17+17.00		37	1	1							816 Second Street	3/4"	
WA 17+41.00		30	1	1							817 Second Street	3/4"	
WA 17+69.00		37	1	1							814 Second Street	3/4"	
WA 18+07.00		31	1	1							815 Second Street	3/4"	
WA 18+46.00		27	1	1							812 Second Street	3/4"	
WA 18+85.00		30	1	1							813 Second Street	3/4"	
WA 18+96.00		36	1	1							810 Second Street	3/4"	
WA 19+47.00		32	1	1							811 Second Street	3/4"	
WA 19+73.00		35	1	1							808 Second Street	3/4"	
WA 20+07.00		32	1	1							809 Second Street	3/4"	
WA 20+43.00		36	1	1							806 Second Street	3/4"	
WA 20+55.00		32	1	1							807 Second Street	3/4"	
WA 21+72.00		36	1	1							100 Iroquois Lane	3/4"	
WA 21+99.00		36	1	1							1003 Cold Springs Road	3/4"	
WA 24+07.00		30	1	1							801 Second Street	3/4"	
WA 26+12.00		36	1	1							713 Second Street	3/4"	
WA 26+31.00		50	1	1							714 Second Street	3/4"	
WA 26+92.00		22	1	1							709 Second Street	3/4"	
WA 27+50.00		53	1	1							706 Second Street	3/4"	
WA 27+52.00		29	1	1							707 Second Street	3/4"	
WA 28+14.00		52	1	1							704 Second Street	3/4"	
WA 28+22.00		20	1	1							703 Second Street	3/4"	
WA 28+94.00		52	1	1							700 Second Street	3/4"	
WA 28+99.00		22	1	1							701 Second Street	3/4"	
WA 30+47.00		38	1	1							616 Second Street	3/4"	
WA 30+51.00		31	1	1							615 Second Street	3/4"	
WA 30+98.00		50	1	1							612 Second Street	3/4"	
WA 31+14.00		32	1	1							611 Second Street	3/4"	
WA 31+71.00		50	1	1							610 Second Street	3/4"	
WA 31+78.00		34	1	1							609 Second Street	3/4"	
WA 32+29.00		51	1	1							608 Second Street	3/4"	
WA 32+32.00		35	1	1							607 Second Street	3/4"	
WA 32+90.00		35	1	1							605 Second Street	3/4"	
WA 33+13.00		50	1	1							602 Second Street	3/4"	
WA 33+81.00		50	1	1							600 Second Street	3/4"	
WA 33+94.00		36	1	1							601 Second Street	3/4"	
WA 35+38.00		52	1	1							518 Second Street	3/4"	
WA 35+67.00		40	1	1							513 Second Street	3/4"	
WA 36+20.00		41	1	1							511 Second Street	3/4"	
WA 36+23.00		52	1	1							514 Second Street	3/4"	
WA 36+65.00		37	1	1							509 Second Street	3/4"	
WA 36+71.00		52	1	1							512 Second Street	3/4"	
WA 37+35.00		37	1	1							507 Second Street	3/4"	
WA 37+38.00		52	1	1							508 Second Street	3/4"	
WA 37+90.00		37	1	1							505 Second Street	3/4"	
WA 38+01.00		52	1	1							504 Second Street	3/4"	
WA 38+70.00		37	1	1							501 Second Street	3/4"	
WA 38+77.00		52	1	1							500 Second Street	3/4"	
WA 40+26.00		37	1	1							419 Second Street	3/4"	
WA 40+34.00		53	1	1							412 Second Street	3/4"	
WA 40+95.00		40	1	1							415 Second Street	3/4"	
WA 41+25.00		52	1	1							410 Second Street	3/4"	
WA 41+61.00		53	1	1							408 Second Street	3/4"	
WA 41+65.00		40	1	1							411 Second Street	3/4"	
WA 42+33.00		40	1	1							407-409 Second Street	3/4"	
WA 42+37.00		54	1	1							408 Second Street	3/4"	
WA 42+94.00		41	1	1							403 Second Street	3/4"	
WA 43+68.00		53	1	1							301 Sycamore Street	3/4"	
WA 45+28.00		56	1	1							313 Second Street	3/4"	
WA 45+58.00		55	1	1							311 Second Street	3/4"	
WA 46+09.00		56	1	1							309 Second Street	3/4"	
WA 46+31.00		65	1	1							314 Second Street	3/4"	
WA 46+69.00		41	1	1							307 Second Street	3/4"	
WA 47+28.00		53	1	1							306 Second Street	3/4"	
WA 47+58.00		57	1	1							305 Second Street	3/4"	
WA 48+19.00		57	1	1							715 Second Street	3/4"	
WA 48+44.00		39	1	1							300 Second Street	3/4"	
WA 50+81.00								54	1	1	310-312 Tulip Street	2"	Field verify service size
WA 51+60.00								60	1	1	213-215 Second Street	2"	Field verify service size
WA 52+05.00		60	1	1							209 Second Street	3/4"	
WA 53+57.00		50	1	1							201 Second Street	3/4"	
WA 55+18.00		60	1	1							117 Second Street	3/4"	
WA 56+02.00					60	1	1				115 Second Street	1"	Field verify service size
WA 57+77.00		37	1	1							105 Second Street	3/4"	
WA 58+76.00		37	1	1							101 Second Street	3/4"	

HYDRANT TABLE

STATION	OFFSET	ITEM 663.130X HYDRANT, (EA)	ITEM NUMBER IN SERIES (X)	ITEM 663.43 REMOVE AND DISPOSE OF EXISTING HYDRANT, (EA)	NOTES
S 18+42	22' RT	1	663.1301		INSTALL PROPOSED HYDRANT
S 18+43	25' RT			1	REMOVE EXISTING HYDRANT
S 24+19	25' RT	1	663.1302		INSTALL PROPOSED HYDRANT
S 30+92	58' RT			1	REMOVE EXISTING HYDRANT
S 31+00	54'RT	1	663.1303		INSTALL PROPOSED HYDRANT
S 34+68	24' RT	1	663.1304		INSTALL PROPOSED HYDRANT
S 34+80	25' RT			1	REMOVE EXISTING HYDRANT
S 39+45	24' RT	1	663.1305		INSTALL PROPOSED HYDRANT
S 39+77	23' RT			1	REMOVE EXISTING HYDRANT
S 44+36	27' RT	1	663.1306		INSTALL PROPOSED HYDRANT
S 44+44	27' RT			1	REMOVE EXISTING HYDRANT
S 49+48	29' RT	1	663.1307		INSTALL PROPOSED HYDRANT
S 49+53	30' RT			1	REMOVE EXISTING HYDRANT
S 54+36	35' LT	1	663.1308		INSTALL PROPOSED HYDRANT
S 54+38	30' RT			1	REMOVE EXISTING HYDRANT
S 56+36	36' LT	1	663.1309		INSTALL PROPOSED HYDRANT
S 59+43	35' RT			1	REMOVE EXISTING HYDRANT
S 64+42	35' RT	1	663.1310		INSTALL PROPOSED HYDRANT
TOTAL		10		8	

WATER WORKS TABLE

WORK TO BE PERFORMED BY THE STATE CONTRACTOR

REFERENCE ID	START STATION	END STATION	ITEM 206.0201 (CY)	ITEM 203.07 (CY)	ITEM 552.17 (SF)	ITEM 663.0104 (LF)	ITEM 663.0106 (LF)	ITEM 663.0108 (LF)	ITEM 663.2304 (LF)	ITEM 663.2306 (LF)	ITEM 663.2308 (LF)	ITEM 663.1008 (EA)	ITEM 663.160404 (EA)	ITEM 663.160606 (EA)	ITEM 663.160808 (EA)	ITEM 663.2001 (LB)	ITEM 663.2104 (EA)	ITEM 663.2106 (EA)	ITEM 663.2108 (EA)	ITEM 663.40 (EA)	NOTES
W-01	WA 10+00.00	WA 13+00.00	293	293	4290		20	370		20	370	1		3		1347		20		3	
W-02	WA 13+00.00	WA 23+50.00	822	822	11935		10	1075		10	1075			1		401		12		1	
W-03	WA 23+50.00	WA 27+00.00	365	365	5335	20		465	20		465	2	2			1310	6		13	2	
W-04	WA 27+00.00	WA 30+00.00	285	285	4180	20		360	20		360	1	2			770	10	2	6	2	
W-05	WA 30+00.00	WA 35+00.00	437	437	6380	20		560	20		560	1	2			762	10	2	11	2	
W-06	WA 35+00.00	WA 40+00.00	431	431	6270		10	560		10	560	1		1	1	828		15	9	2	
W-07	WA 40+00.00	WA 45+00.00	448	448	6545	20		575	20		575	1	2			990	10	14		2	
W-08	WA 45+00.00	WA 50+00.00	456	456	6655		20	585		20	585	1		2		802		18		2	
W-09	WA 50+00.00	WA 55+00.00	423	423	6160	10		550	10		550	2	1			385	1	11		1	
W-10	WA 55+00.00	WA 60+00.00	450	450	6545	10		585	10		585	2				941		10		2	
TOTAL			4411	4411	64295	100	60	5685	100	60	5685	12	9	7	1	8536	37	104	39	19	

20 0 20 40 60 80'
1" = 40'

DESIGN SUPERVISOR: E. COULTER, P.E.
DESIGN M. HOULIHAN
DRAFTING M. HOULIHAN
PROJECT MANAGER P. LO GALLO, P.E.
JOB MANAGER: A. NAUMOWICZ, P.E.
CHECK A. NAUMOWICZ, P.E.
CHECK A. NAUMOWICZ, P.E.

GRID NORTH

REVISIONS

NO.	DESCRIPTION	DATE	CHECK

AFFIX SEAL: ON: 2/14/25

ANGELICA NAUMOWICZ
106589

ALTERED BY: ON:

COLD SPRINGS-LIVERPOOL, S.H. 670
VILLAGE OF LIVERPOOL
TOWN OF SALINA
COUNTY: ONONDAGA REGION: 03

PIN 3287.22
NY RTE 370
UTILITY QUALITY LEVEL B

BRIDGES

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

UTILITY PLANS

CONTRACT NUMBER
D265423

DRAWING NO. UTP-01
SHEET NO. RP-17A2

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER,ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

NEW YORK STATE Department of Transportation