



Charles D. Baker, Governor  
Karyn E. Polito, Lieutenant Governor  
Stephanie Pollack, Secretary & CEO  
Jonathan L. Gulliver, Highway Administrator



April 20, 2018

605384-102272

ADDENDUM NO. 1

To Prospective Bidders and Others on:

**TUESDAY MAY 1, 2018 at 2:00 P.M.\*\***

**AGAWAM-WEST SPRINGFIELD**

**Federal Aid Project Nos. NHP(BR-ON)-003S(070) & STP(BR-ON)-003S(070)  
Bridge Replacement Br. No. A-05-002=W-21-014 (Steel)  
Route 147 (Memorial Avenue) over the Westfield River and  
Intersection Improvements (Including Signals) at 3 Locations along Route 147**

**BIDS TO BE OPENED AND READ: TUESDAY, MAY 1, 2018 AT 2:00 P.M.**

Transmitting revisions to the Contract Documents as follows:

**RESPONSES TO BIDDERS' QUESTIONS:** 3 pages.

**DOCUMENT A00801:** Revised page 63, 65, 83.

**DOCUMENT B00420:** Revised page 7.

**PLANS:** Revised plans 95 and 101 of 296.

Take note of the above, substitute the revised pages for the originals, and acknowledge Addendum No. 1 in your Expedite Proposal file before submitting your bid.

Very truly yours,

Frank Kucharski, P.E.  
Construction Contracts Engineer

SP

c: Alwin Ramirez Project Manager

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[www.mass.gov/massdot](http://www.mass.gov/massdot)

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**AGAWAM-WEST SPRINGFIELD**  
**Federal Aid Project Nos. NHP(BR-ON)-003S(070) & STP(BR-ON)-003S(070)**  
**Bridge Replacement Br. No. A-05-002=W-21-014 (Steel)**  
**Route 147 (Memorial Avenue) over the Westfield River and**  
**Intersection Improvements (Including Signals) at 3 Locations along Route 147**  
**No. 605384-102272**

**Responses to Bidder's Questions**

Addendum No. 1, April 20, 2018

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**Advanced Drainage Systems, Inc., e-mail dated April 03, 2018**

Question 1) I am writing in regard to the Bridge Replacement Br. No. A-05-002=W-21-014 (Steel) Route 147 (Memorial Avenue) over the Westfield River and Intersection Improvements (Including Signals) at 3 Locations along Route 147 Project in Agawam and West Springfield, MA. Specifically, this Project is MassDOT Project Number 605384 and Bid Number BD-18-1030-0H100-0H002-20032; it is also Federal Aid Project Nos. NHP(BR-ON)-003S(070) and STP(BR-ON)-003S(070).

The Project is currently specified with 12-, 15-, 18-, and 24-inch Reinforced Concrete Pipe (RCP). Item Number and quantities are as follows:

241.12 = 12-Inch Reinforced Concrete Pipe (1,600 LF)  
241.15 = 15-Inch Reinforced Concrete Pipe (80 LF)  
241.18 = 18-Inch Reinforced Concrete Pipe (50 LF)  
241.24 = 24-Inch Reinforced Concrete Pipe (65 LF)

As has occurred in the past, we would like to respectfully request that corrugated HDPE pipe (per AASHTO M294) be allowed under the pipe option for the above referenced items. If allowed, the installation of the corrugated HDPE pipe (per AASHTO M294) would follow MassDOT Installation Guidelines.

If additional information shall be required, please contact me at your earliest convenience regarding this request for a storm drainage pipe alternative.

Response 1) The existing system is concrete and during the design phase concrete pipe was preferred.  
Only RCP will be accepted for this project.

**SPS New England, Inc., e-mail dated April 13, 2018**

Question 2) In reference to sheet 101 of 296 at stations 405+10 & 405+61 there are two temporary water services on the south side of River Street. Will new permanent services be required at these location? If so please provide details for the permanent tie ins.

Response 2) See revised drawings 95 and 101 of 296 (attached).  
Permanent tie in details are shown on sheet 104 of 296.  
See revised page A00801 – 83.

**AGAWAM-WEST SPRINGFIELD**  
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**SPS New England, Inc., e-mail dated April 16, 2018**

Question 3) Due to the contaminated Soil items already found on the bid item list, please add the following unit price items: 180.4 – Monitoring/Handling and Stockpiling of Contaminated Soils, and 180.6 – Miscellaneous Soils Testing.

Response 3) See page A00801 – 74.  
In addition, see pages A00801 – 77, A00801 – 80 and A00801 – 81.

**SPS New England, Inc., e-mail dated April 17, 2018**

Question 4) Sheet 9 of 59 shows the existing Gas lines in the utility bay as 8” and 6” Diameter and both as LP. Items 182.22 is for Removal of Asbestos – 8” LP Gas Main Protective Wrap on bridge and Item 182.23 is for Removal of Asbestos- 8” HP Gas Main Protective Wrap on Bridge. Please clarify the diameter of the existing pipes and classification of each (LP or HP)?

Response 4) See response 2.

Question 5) Paving specifications for items 450.90 through 455.70 indicate that Warm Mix Asphalt additive is required. Please add bid item 456. – Warm Mix Asphalt Pavement?

Response 5) See page A00801 – 121.

**J.F. White Contracting Company, e-mail dated April 19, 2018**

Question 6) The Project Utility Coordination Form (Pages A00808-5 states:  
Task 2 – Columbia Gas Abandon low pressure main on Bridge Structure  
Duration = 2 Work Days

Please clarify what is meant by abandon. Will Columbia Gas remove the gas main off of the Bridge Structure or will removal be required by the Contractor?

Response 6) See revised pages A00801- 63 and A00801 – 65.

**AGAWAM-WEST SPRINGFIELD**  
**Federal Aid Project Nos. NHP(BR-ON)-003S(070) & STP(BR-ON)-003S(070)**  
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Question 7)

The Special Provisions (Page A00801-4) "Limitations of Operations:

Item No. 7 – Contractor to provide access to various utility companies for their performance of their work based on the scope and duration identifies in the Project Utilities Coordination (PUC) form.

The following are "Access Restraints" per the PUC Form:

- Prior to Demo of the Deck, the Contractor needs to give Columbia Gas Company a total of 44 working days to allow for the installation of 400' 16" steel gas line

The Project Utility Coordination Form (Pages A00808-4 and -5 states:

Stage 1 Phase B – The Bridge contractor places concrete barrier, establishes two way temporary traffic on the existing bridge and removes existing bridge deck (Phase 1)

Task 2 – Columbia Gas Install 400 feet of 16" coated metal gas main over existing structure (Temp Crossing) (Estimated Duration = 44 Work Days

The Limitation of Operations states that the 16" gas line to be installed prior to demolition of deck. The Project Utilities Coordination Form states that the 16" gas line is to be installed after the deck has been removed.

Please verify which is correct.

Response 7) The 16" temporary gas line is to be installed prior to the demolition of the deck.

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**ITEM 114.1****DEMOLITION OF SUPERSTRUCTURE OF  
BRIDGE NO. A-05-002=W-21-014****LUMP SUM**

The work under this Item shall conform to the relevant provisions of Section 112 of the Standard Specifications and the following:

Work under this Item shall include the complete demolition, removal, and satisfactory disposal of the entire bridge superstructure of the existing Bridge Nos. A-05-002=W-21-014 to the limits shown on the Bridge Plans and as required by the Engineer.

- ① In addition, the work include removal and disposal of abandoned utilities on the bridge structure.

MassDOT does not guarantee or represent that the bridge materials will actually coincide with any descriptions contained herein or represented on the Plans. The Contractor must visit the bridge site prior to submitting bids to get familiar with the scope of work and bridge condition.

The Contractor will make their own investigation of the superstructure to be demolished including the materials that are part of, or may be stored in the superstructure.

The existing bridge may have lead paint. Prior to demolition, the Contractor shall obtain samples from the existing bridge and have them tested. The handling, removing, disposing and/or recycling of all lead-based painted materials shall conform to the “General Requirements for Work Involving Painted Steel” that is included elsewhere in these Special Provisions.

The Contractor shall take all measures necessary to protect pedestrian and vehicular traffic from their construction operations. Materials shall be removed carefully so as to avoid damage to adjacent buildings and utilities. During the prosecution of this work, the Engineer may reject the use of any method or equipment, which causes undue vibration or possible damage to the remaining superstructure or any part thereof. No explosives shall be used.

The Contractor shall locate and protect from damage all existing utilities. The Contractor shall contact utility companies to verify existing utilities and locations and coordinate proposed utility locations prior to demolition and construction.

The Contractor shall obtain all necessary permits, coordinate with the utility owners the relocation of all utilities from the existing bridge onto the new bridge, and make all required submittals under this Item prior to beginning any demolition work.

The proposed highway and bridge plans indicate how much construction must be completed and where traffic shall be shifted before demolition of the bridge superstructure can begin.

The Contractor shall be responsible for reviewing the latest bridge inspection report and verifying that the existing bridge has the capacity necessary for any construction equipment that will be used on the existing bridge during construction.

Whenever any demolition or removal work is to be performed, a suitable protective cover and/or shielding shall be provided by the Contractor to prevent any materials, equipment, tools, debris (liquid or solid) or other materials from falling during demolition.

**ITEM 114.1** (Continued)

The Contractor shall design, furnish, install, and remove a temporary protective shielding / debris containment systems under this item. All debris, including used water if applicable, shall be collected and legally disposed of.

No debris, tools or incidental equipment of any kind will be permitted to fall into the river. Any material that accidentally falls into the river shall be removed immediately.

The shielding shall be designed by a Professional Structural Engineer registered in Massachusetts and shall be submitted to the Engineer for approval.

The contractor shall protect and support of utilities on the bridge during demolition and reconstruction operations. The Contractor shall submit his method of temporary utility protection and support for approval to the Engineer prior to the start of operations.

During the prosecution of this work, the Engineer may reject use of any method or equipment which causes undue vibration or possible damage to portions of the remaining structure.

The Contractor shall use extreme care not to damage portions of the existing structure to remain or that will continue to carry live load. Any damage done to portions to remain or that continue to carry live load on the bridge shall be replaced or repaired by the Contractor at his own expense, to the acceptance by the Engineer.

**Pigeon Waste**

The Contractor shall remove and dispose of the pigeon waste and any other debris accumulated on the steel members and bridge seats in areas where work is being performed. Pigeon waste and debris material contaminants will require special handling and disposal in accordance with all Federal, state, and local requirements. No separate payment will be made for removal and disposal of pigeon waste. Cost shall be incidental to the contract pay items.

**Submittals**

The Contractor shall submit their proposed method of demolition, including crane capacity and location, demolition sequence, lift loads, equipment, tools, procedures, etc., to the Engineer for review and approval. The submittal shall specify that the requirements for equipment and all procedures utilized shall be in conformance with the intent of Subsection 960.61, Erection of the Supplemental Specifications, July 1, 2015.

The demolition procedure, traffic management plan, and any necessary calculations (loads, selection of crane equipment, and lifting hardware) and drawings shall all be stamped by a Professional Engineer registered in the Commonwealth of Massachusetts certifying that all existing structural members are suitably braced and supported throughout the demolition process. Work under this Item may not commence until the Engineer has given written approval of the method of demolition.



① Addendum No. 1, April 20, 2018

**ITEM 114.1** (Continued)**BASIS OF PAYMENT**

- ① Item 114.1 will be paid for at the Contract unit price per Lump Sum, which price shall include all labor, materials, equipment, testing, loading, transportation, approvals, permits, protective shielding, removal and disposal of abandoned utilities on the bridge structure, and all incidental costs required to complete the work.

Payment of 50% of the lump sum bid price of this item will be made upon complete demolition for the first stage.

Payment of 50% of the lump sum bid price of this item will be made upon complete demolition for the second stage.

**ITEM 127.1****REINFORCED CONCRETE EXCAVATION****CUBIC YARD**

The work under this item shall conform to the relevant provisions of Sections 120 and 140 of the Standard Specifications and the following:

Work under this Item shall include the demolition, removal, and satisfactory disposal of the entire bridge substructure of the existing Bridge Nos. A-05-002=W-21-014, as well as abandoned abutments of previous structure if encountered, to the limits shown on the bridge plans and as required by the Engineer.

MassDOT does not guarantee or represent that the bridge materials will actually coincide with any descriptions contained herein or represented on the Plans. The Contractor must visit the bridge site prior to submitting bids to get familiar with the scope of work and bridge condition.

The Contractor shall take all measures necessary to protect pedestrian and vehicular traffic from their construction operations. Materials shall be removed carefully so as to avoid damage to adjacent buildings and utilities. During the prosecution of this work, the Engineer may reject the use of any method or equipment, which causes undue vibration or possible damage to the remaining superstructure or any part thereof.

No explosives shall be used.

**SUBMITTALS**

The Contractor shall submit their proposed method of demolition, including demolition sequence, equipment, tools, procedures, etc., to the Engineer for review and approval. The demolition procedure, traffic management plan, and any necessary calculations (loads, selection of crane equipment, and lifting hardware) and drawings shall all be stamped by a Professional Structural Engineer registered in the Commonwealth of Massachusetts certifying that all existing structural members are suitably braced and supported throughout the demolition process. Work under this Item may not commence until the Engineer has given written approval of the method of demolition.

**ITEM 127.1** (Continued)

**METHOD OF MEASUREMENT**

Item 127.1 will be measured for payment by the Cubic Yard.

**BASIS OF PAYMENT**

Item 127.1 will be paid for at the Contract unit price per Cubic Yard, which price shall include all labor, materials, equipment, and all incidental costs required to complete the work.

**ITEM 127.13**

**REINFORCED CONCRETE EXCAVATION  
FOR DECK REPAIRS**

**CUBIC YARD**

The work under this Item shall conform to the relevant provisions of Sections 120 and 140 of the Standard Specifications and the following:

The work under this Item includes the excavation and removal of existing deteriorated concrete to the limits of sound concrete as shown on the plans or as required by the Engineer.

If sound concrete has been reached at more than 2" from the outside surface, but less than 1" clearance exists between the sound concrete and the inside surface of exposed reinforcing steel, enough sound concrete as is necessary to achieve this 1" minimum clearance shall be removed.

The intent of this Item is to make emergency repairs to portions of existing bridge deck to remain open to traffic during construction.

Emergency repairs shall have an initial response time for required traffic management to be established within 1 hour, and corrective work to commence within 4 hours of the failure.

The Contractor shall use Pneumatic or Power Hammers no larger than the chipping hammer type of the 30 lb. class when removing concrete specified under this item.

The Contractor shall not damage any existing reinforcing steel in areas where deteriorated or spalled concrete is being removed. Any existing reinforcing steel damaged, as a result of the Contractor's operations shall be repaired to the satisfaction of the Engineer, and at the Contractor's expense.

The Contractor shall take all measures necessary to protect the ground and roadway below from their construction operations. No debris, tools or incidental equipment of any kind will be permitted to fall into the river. Any material that accidentally falls into the river shall be removed immediately. Temporary protective shielding must be used on the bridge during full-depth excavation and when, in the opinion of the Engineer, there is the possibility of dislodging concrete from the bottom of the deck.

① Addendum No. 1, April 20, 2018

	<b><u>ITEM 182.21</u></b>	<b><u>REMOVAL OF ASBESTOS - 16" HP GAS MAIN ON BRIDGE</u></b>	<b><u>FOOT</u></b>
	<b><u>ITEM 182.22</u></b>	<b><u>REMOVAL OF ASBESTOS - 8" LP GAS MAIN</u></b>	<b><u>FOOT</u></b>
		<b><u>PROTECTIVE WRAP ON BRIDGE</u></b>	
①	<b><u>ITEM 182.23</u></b>	<b><u>REMOVAL OF ASBESTOS - 6" LP GAS MAIN</u></b>	<b><u>FOOT</u></b>
		<b><u>PROTECTIVE WRAP ON BRIDGE</u></b>	

The work shall include the removal and satisfactory disposal of existing asbestos. Material suspected to contain asbestos includes the existing wrapping around the surfaces of the three (3) gas mains on the existing bridge structure, supported underneath the roadway.

The Contractor's attention is directed to the fact that existing asbestos shall be inspected and tested prior to removal, to determine if special removal and disposal is required. The Contractor shall follow all the rules and regulations stated in "ITEM 182.1 INSPECTION AND TESTING FOR ASBESTOS". If asbestos is present, the Contractor shall follow all the rules and regulations stated in the section "REMOVAL AND DISPOSAL OF ASBESTOS CONTAINING MATERIALS", under this item. The Contractor should notify and coordinate his/her efforts with the proper utility accordingly.

It is the Contractor's responsibility to coordinate the timing and the necessary sequence of construction operations for the proper removal and disposal of the existing asbestos, and the associated gas main replacements.

### **REMOVAL AND DISPOSAL OF ASBESTOS CONTAINING MATERIALS**

This section specifies the requirements for the handling and removal of asbestos containing material. The Contractor must perform all asbestos handling and removal work in accordance with these specifications and the following additional requirements.

U.S. Department of Labor, Occupational Safety and Health Administration, (OSHA) including but not limited to:

- 29 CFR 1910 Section 1001 and 29 CFR 1926 Section 58 Occupational exposure to Asbestos, Tremolite, Anthophyllite and Actinolite, Final Rule
- 29 CFR 1910 Section 134 Respiration Protection
- 29 CFR 1926 Construction Industry
- 29 CFR 1910 Section 2 Access to Employee Exposure and Medical Records
- 29 CFR 1910 Section 1200 Hazard Communication
- 29 CFR 1910 Section 145 Specifications for Accident Prevention Signs and Tags

U.S. Environmental Protection Agency, (EPA) including but not limited to:

- 40 CFR 762, CPTS 62044, FRL 2843-9, Federal Register Vol. 50 no.134, July 12, 1985 p.28530 - 28540 Asbestos Abatement Projects Rule
- 40 CFR 61 Subpart A Regulation for Asbestos
- 40 CFR 61 Subpart M (Revised Subpart B) National Emission Standard for Asbestos

U.S. Department of Transportation 49 CFR 172 and 173

**ITEMS 182.21 through 182.23** (Continued)

Massachusetts Department of Labor and Industries Regulations, (DLI) including but not limited to:

453 CMR 6.00 Removal, Containment and Encapsulation of Asbestos

Massachusetts Department of Environmental Protection (DEP) including but not limited to (supplementing subsection 7.01):

310 CMR 7.00, Section 7.09 Odor and Dust, Section 7.10 Noise, Section 7.15 Air Pollution Control Regulations  
310 CMR 18.00 and 19.00 Solid Waste Regulations

Massachusetts Division of Industrial Safety 45 CMR 10.00

Local Requirements including but not limited to those of Health Departments, Fire Departments and Inspection Services Departments

Wherever there is a conflict or overlap of the above references, the most stringent provision shall apply.

All asbestos material shall be removed and properly disposed of by a contractor or subcontractor with a current Massachusetts Abatement Contractors License issued by the Department of Labor and Industries. Work shall be supervised by a competent person as required by OSHA in 29 CFR 1926 to ensure regulatory compliance. This person must have completed a course at an EPA Training Center or equivalent course in asbestos abatement procedures, have had a minimum of four years on-the-job training and meet any additional requirements set forth in 29 CFR 1926 for a Competent Person. This person must also be certified by the Commonwealth as an Asbestos Abatement Supervisor and Asbestos Abatement Project Designer as required by 453 CMR 6.00.

Asbestos removal work shall be coordinated with all other work under the contract and shall be completed prior to performing any activities which could disturb the asbestos material or produce airborne asbestos fibers.

Dust suppression in the form of light water sprays, foams, dust suppressants and calcium chloride will be implemented as required to control dusting during trenching and excavation. Alternatively, intrusive activities may be reduced or curtailed under high wind or heavy rain conditions, which in the opinion of the HASP may pose a safety hazard to the workers.

**NOTIFICATION AND PERMITS**

The Contractor shall prepare a formal pre-notification form at least ten (10) days prior to the start of asbestos removal work. This form must be submitted to the appropriate Regional Office of the Massachusetts Department of Environmental Protection and to the U.S. Environmental Protection Agency Region I Air and Hazardous Material Division. A copy of the submitted forms must be provided to the Engineer and kept at the work site.

Project # 605384		Contract # 102272		
Location : AGAWAM -WEST SPRINGFIELD				
Description : Bridge Replacement Br. No. A-05-002=W-21-014 (Steel) Route 147 (Memorial Avenue) over the Westfield River and Intersection Improvements (Including Signals) at 3 Locations along Route 147.				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
181.13	275	DISPOSAL OF REGULATED SOIL - OUT-OF-STATE FACILITY  AT _____ PER TON		
181.14	50	DISPOSAL OF HAZARDOUS WASTE  AT _____ PER TON		
182.1	1	INSPECTION AND TESTING FOR ASBESTOS  AT _____ LUMP SUM		
182.21	350	REMOVAL OF ASBESTOS - 16" HP GAS MAIN ON BRIDGE  AT _____ PER FOOT		
182.22	350	REMOVAL OF ASBESTOS - 8" LP GAS MAIN PROTECTIVE WRAP ON BRIDGE  AT _____ PER FOOT		
182.23	350	REMOVAL OF ASBESTOS - 6" LP GAS MAIN PROTECTIVE WRAP ON BRIDGE  AT _____ PER FOOT		
183.1	500	TREATMENT OF CONTAMINATED GROUNDWATER  AT _____ PER GALLON		
183.2	500	DISPOSAL OF GRANULAR ACTIVATED CARBON  AT _____ PER POUND		
184.1	2	DISPOSAL OF TREATED WOOD PRODUCTS  AT _____ PER TON		

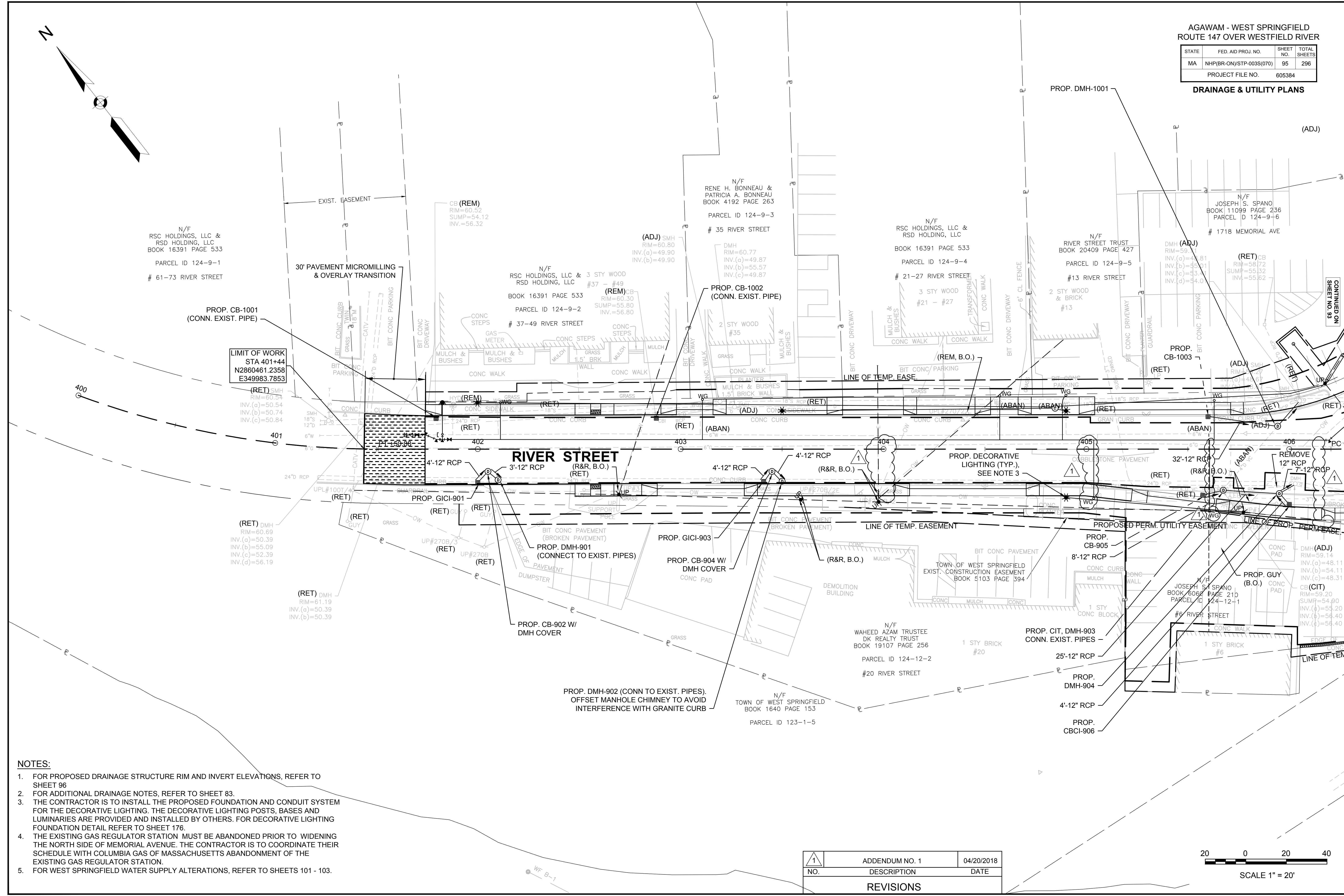
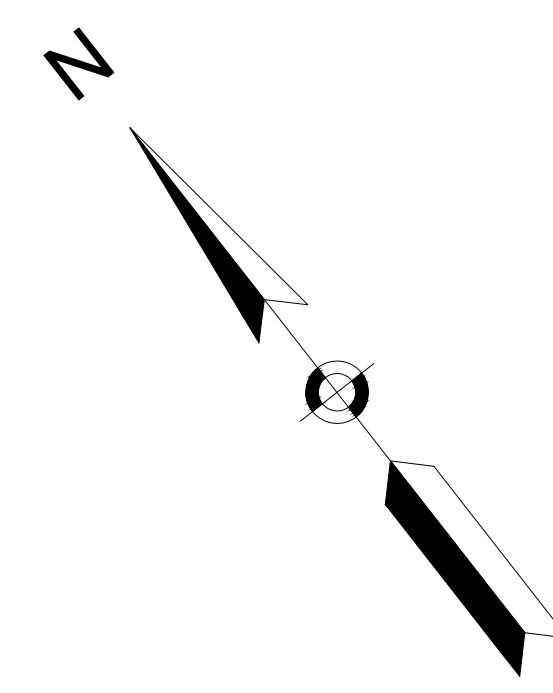
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Project # 605384		Contract # 102272		
Location : AGAWAM -WEST SPRINGFIELD				
Description : Bridge Replacement Br. No. A-05-002=W-21-014 (Steel) Route 147 (Memorial Avenue) over the Westfield River and Intersection Improvements (Including Signals) at 3 Locations along Route 147.				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
191.	35	DRIVE SAMPLE BORING  AT _____ PER FOOT		
191.11	150	CORE BORING  AT _____ PER FOOT		
192.6	15	MONITORING WELL ADJUSTED  AT _____ EACH		
193.	1	MOBILIZATION AND DISMANTLING OF BORING EQUIPMENT  AT _____ LUMP SUM		
201.	50	CATCH BASIN  AT _____ EACH		
202.	30	MANHOLE  AT _____ EACH		
203.	4	SPECIAL MANHOLE  AT _____ EACH		
204.	18	GUTTER INLET  AT _____ EACH		
220.	30	DRAINAGE STRUCTURE ADJUSTED  AT _____ EACH		

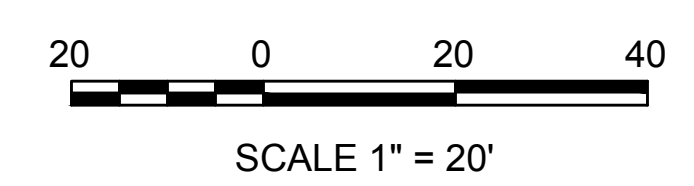
AGAWAM - WEST SPRINGFIELD  
ROUTE 147 OVER WESTFIELD RIVER

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(BR-ON)/STP-003S(070)	95	296
PROJECT FILE NO.		605384	

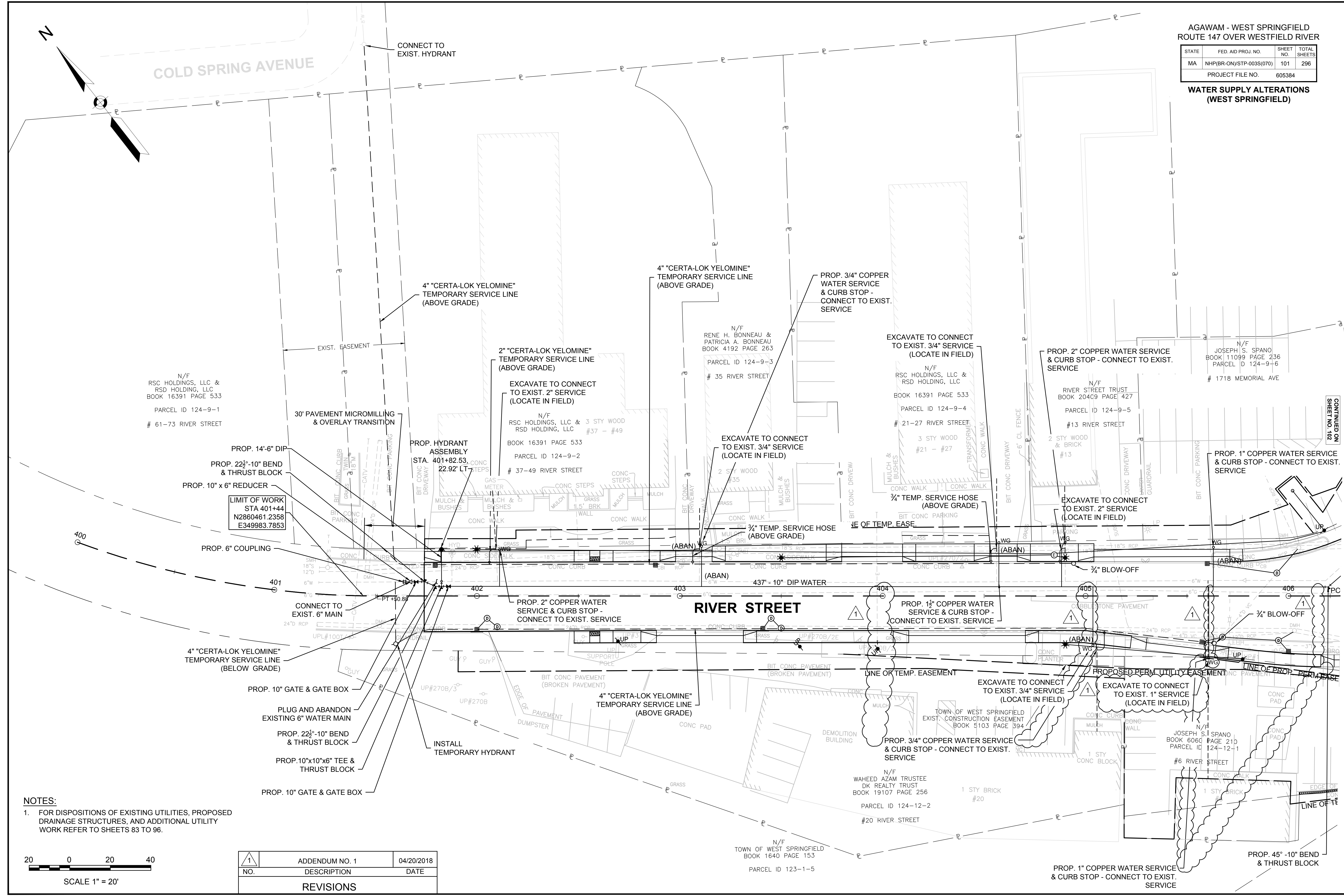
DRAINAGE & UTILITY PLANS



NO.	DESCRIPTION	DATE
1	ADDENDUM NO. 1	04/20/2018
REVISIONS		

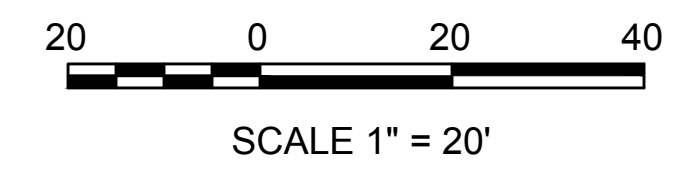






CONTINUED ON  
SHEET NO. 102

**NOTES:**  
1. FOR DISPOSITIONS OF EXISTING UTILITIES, PROPOSED DRAINAGE STRUCTURES, AND ADDITIONAL UTILITY WORK REFER TO SHEETS 83 TO 96.



NO.	ADDENDUM NO. 1 DESCRIPTION	DATE
1		04/20/2018
<b>REVISIONS</b>		