

ACTUAL COST UTILITY AGREEMENT

SH-16, I-84 to US 20/26 & SH 44

PROJECT NO. A020 (788)

KEY NO. 20788

ITD AGREEMENT NO. _____

THIS ACTUAL COST UTILITY AGREEMENT ("AGREEMENT"), made and entered into this _____ day of _____, 2021, by and between the **IDAHO TRANSPORTATION DEPARTMENT**, hereinafter referred to as the "State", and the City of Meridian, hereinafter referred to as the "City".

PURPOSE:

The State and Federal Government propose a Project to improve a section of SH-16 from I-84 to US-20/26 in Ada County, Idaho. The State and the City agree that it is in the best interest of the public to modify the City's utility facilities ("Utility Modification") located in or near the Project construction area. This Agreement sets out the terms by which the State will reimburse the City for its costs of Utility Relocation.

GENERAL DEFINITIONS

Project – The work defined by the plans and specifications developed by the State that is assigned the Project Number and Key Number as shown on the first page of this Agreement.

Utility Relocation – City facilities that are modified in place or moved to a different location to accommodate the Project.

TERMS AND CONDITIONS:

1. Property Rights

Upon purchase by ITD, City hereby releases and relinquishes to the State all its property rights, title and interest in City easements located within the right-of-way of this Project.

2. Modification of City Facilities

The City shall arrange for all labor, materials, and equipment necessary, including survey services, for the completion of Utility Relocation as shown on the plans attached hereto as **EXHIBIT A** and by reference made a part of this Agreement. The work shall include the following:

- Encasing the City of Meridian's existing 12-inch PVC C-900 waterline to outside the

roadway prism at approximate SH-16 Station 459+20 and Station 474+70. This includes removal of the existing pipe, installation of a steel casing, then installation of 16-inch HDPE pipe (to meet or exceed the inside diameter of the existing pipe)

- A) Utility Modification may either be done with City forces and equipment or by a contract awarded by the City. Rental equipment shall have prior approval of the State to be reimbursable.
- B) Utility Modification shall be completed either prior to the State advertising the Project for bids or by coordinating with the State's Contractor during construction of the Project. The City shall either verify that the State has acquired right-of-way or make its own arrangement with each property owner before starting Utility Relocation. All Utility Relocation or Modification shall be completed to the State's satisfaction.
- C) The City shall furnish detailed plans, specifications, lists of materials, and estimates of cost that may be required in addition to those prepared by the State. These plans, specifications, lists, and estimates are hereby made a part of this Agreement and attached hereto as **EXHIBIT A** and by reference and are included as part of Utility Relocation.
- D) The City shall furnish a work schedule, including dates for begin and end of work, to the State prior to the start of Utility Relocation. This work schedule is to include any activities or work required by the State or its Contractor necessary for the completion of Utility Relocation. The work schedule is to be in a printed format that may include descriptive text, charts, or diagrams. Revised work schedules are to be furnished to the State when requested.
- E) Pursuant to the Board Order to be provided by the State to the City, the City shall notify the State 48 hours prior to start of Utility Relocation.
- F) The City shall notify the State in writing of the date when Utility Relocation is completed.

3. State to Reimburse City for Portion of Actual Cost

- A) The State will reimburse the City for the 30% of the actual cost of the Utility Modification as previously described. The estimated cost of Utility Modification reimbursable by the State is \$97,000. Cost estimating information is attached hereto as **EXHIBIT B** and by reference made a part of this Agreement.
- B) The City may submit billings for reimbursement of Utility Relocation to the State for progress payments while the work is ongoing. The City shall submit a final bill to the State for reimbursement of all Utility Relocation within one hundred twenty (120) days after completion of the work. All billings shall include supporting documentation substantiating the cost of Utility Relocation.
- C) The State shall pay progress billings within forty-five (45) days and final billing within ninety (90) days after receipt of the bills. All payments are subject to the findings of a final audit by

the State.

D) Reference to the Project Number and Key Number shall be indicated on all bills, correspondence, and records pertaining to this Project.

4. Disposal of Materials

The State shall be afforded a reasonable opportunity to inspect materials recovered by the City prior to disposal by sale or scrap. This requirement will be satisfied by the City giving written notice, or oral notice with prompt written confirmation, to the State of the time and place where the materials will be available for inspection. The giving of notice is the responsibility of the City, and it may be held accountable for full value of materials disposed of without notice.

5. BUY AMERICA PROVISION

A) All steel or iron materials permanently incorporated into the Utility Relocation shall have been produced in the United States. All manufacturing processes for these materials, including the application of coatings on such materials, must occur in the United States. Coating includes all processes which protect or enhance the value of the material to which the coating is applied.

B) Certifications documenting that steel and iron have been manufactured in the United States and documenting that coatings for iron or steel have been applied in the United States, shall be provided to the City by the manufacturer. The City shall provide the required certifications to the State prior to incorporating these materials into the Utility Relocation. Certification shall extend to materials utilized in manufactured and fabricated products purchased by the City.

C) Certifications shall conform to the requirements of Subsection 106.04 of the ITD Standard Specifications for Highway Construction.

D) Small quantities of foreign manufactured and fabricated material will be permitted so long as their total cost does not exceed 0.1% of the total contract amount or \$2,500, whichever is greater.

E) Should foreign steel, iron, or applied coatings for iron or steel in excess of the quantities allowed herein become incorporated into the work, the City shall remove such materials in excess of the allowable maximum and replace them with materials complying with these specifications at no cost to the State.

6. State and City Contact Persons

A) The City is to submit billings and related documents to, as well as coordinate all Utility Relocation activities through, the State's contact person:

**Alan Buehrig
Idaho Transportation Department, District 3
8150 Chinden Boulevard
Boise, ID 83714-1367
Telephone number is (208) 334-8352**

The State may change its contact person by notifying the City in writing.

B) The State is to coordinate all Utility Relocation activities through the City's contact person:

**Kyle Radek, Assistant City Engineer - Water
City of Meridian, Public Work Department
33 E. Broadway Ave.,
Meridian, Idaho 83642
Telephone number is 208-898-5500**

The City may change its contact person by notifying the State in writing.

7. Indemnification of the State by the City

To the extent permitted by Idaho law and without waiving any of the defenses, immunities or other protections available thereunder, the City agrees to indemnify, save harmless and defend the State, regardless of outcome, from the expenses of and against suits, actions, claims, or losses of every kind, nature and description, including costs, expenses and attorney fees that may be incurred by reason of any act or omission, neglect or misconduct of the City or its contractor in the design, construction and maintenance of the Utility Relocation, which is covered by this Agreement.

8. Choice of Law and Severability

A) This agreement is governed by the laws of the State of Idaho. If a term of this agreement is determined to be illegal by competent authority, it will not invalidate the remaining terms of this agreement.

B) Any lawsuit or litigation against the State is to be filed in a court located in Ada County, Idaho.

9. Federal-Aid Policy Guide

The regulatory provision of the Federal-Aid Policy Guide (FAPG), subsection 23 FAPG 645A dated January 31, 2002, by the Federal Highway Administration, and any amendments or supplements that are in effect prior to execution of this Agreement are hereby made a part of this Agreement by reference.

10. Modifications to Agreement or Utility Relocation

Proposed modifications to this Agreement or Utility Relocation as defined by the Project shall be approved by both parties in advance by a change order issued from the State. Deviation from this Agreement or Utility Relocation as defined by the Project without prior approval by one party will remove that portion of the Utility Relocation from reimbursement under this Agreement.

11. Successors and Assigns

This Agreement shall be binding upon and inure to the benefit of the parties hereto, their successors and assigns.

IN WITNESS WHEREOF the parties have executed this Agreement by their duly authorized representatives effective as of the date and year first above written.

Attest for **City of Meridian**

City of Meridian

By: _____

By: _____

Title: City Clerk

Title: Mayor Robert E. Simison

Recommended for **ITD**

IDAHO TRANSPORTATION DEPARTMENT

By: _____
Program Manager

By: _____
District Engineer

EXHIBIT "A"

To Actual Cost Utility Agreement

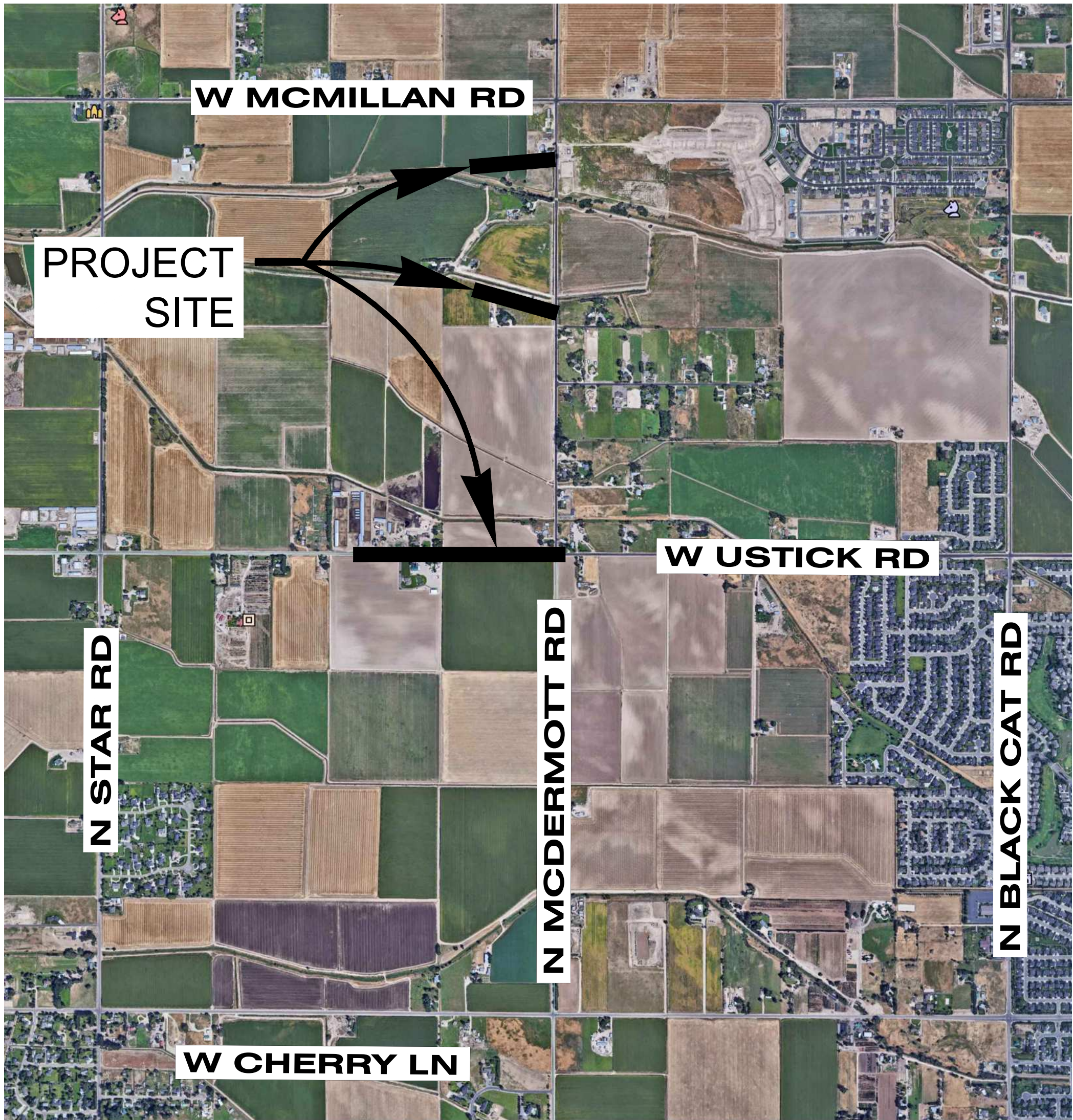
Cover Sheet for the
Project Plans

CITY OF MERIDIAN
FUTURE STATE HIGHWAY 16
WATER MAIN IMPROVEMENTS
CITY PROJECT NO. 11089

LEGEND

(See Standards For Specifics)

12" W	New Potable Water Main
8" SS	New Sanitary Sewer Main
FO	New Fiber Optic Line
2	C.L. of Roadway
3	
EP	Existing Edge of Pavement or Gravel
EG	
12" CMP SD	Existing Drain or Irrigation Pipe
	Existing Ditch or Flow line
	Existing Property Line
R/W	New Right-Of-Way
	New Easement Line
X	Existing Fence and Gate
P or W or G or T or TV or UP or S	Existing Utility Line With Initial
	Existing Concrete Sidewalk
	Existing Curb, Gutter, and Sidewalk
	New Curb, Gutter, and Sidewalk
⊙ ⊙	Existing and New Water Valve
⊙ ⊙	Existing and New Water Meter
⊙	Fire Hydrant
⊙ *	Light Pole
⊙ →	Utility Pole With Anchor
⊙	Sign
⊙ ⊙	Existing and New Manholes
⊙ ⊙	Existing and New Catch Basin
⊙ ⊙	Deciduous And Evergreen Tree
⊙ ⊙	Deciduous And Evergreen Bushes
⊙	Existing Building
⊙	Revision Note
⊙	Asphalt Repair
⊙	Gravel Repair
⊙	Concrete Repair
⊙	Lawn Sod Repair



SHEET INDEX

1. TITLE SHEET
2. CONSTRUCTION NOTES
- 3-6. WATER MAIN REPLACEMENT
- 3-6. EROSION AND SEDIMENT CONTROL PLAN

- NOTES: 1. WATER MAIN IMPROVEMENTS TO BE COMPLETED PRIOR TO THE CONSTRUCTION OF THE FUTURE ITD STATE HIGHWAY 16 ROADWAY PROPOSED IMPROVEMENTS.
2. INFORMATION SHOWN ON THIS PLAN SET IS ACCURATE ONLY FOR CITY OF MERIDIAN WATER MAIN IMPROVEMENTS. REFER TO ITD PROJECT #A020(788) PLANS AND SPECIFICATIONS FOR PROPOSED ROADWAY IMPROVEMENTS AND PROJECT SURVEY CONTROL.



APPROVED FOR CONSTRUCTION

These plans and/or specifications have been reviewed for compliance with Meridian City Standards and Specifications. This review does not relieve the owner, engineer, or contractor of the responsibility to design and/or construct these facilities in compliance with all current applicable federal, state and local laws, rules, regulations, ordinances, development agreements, specifications, orders or approvals, all of which the City retains the right to enforce. Inconsistencies not noted by City staff shall not be construed as approved unless specifically addressed in writing by the City. Any proposed revision to these plans must be submitted for review and compliance with the Meridian City Standards and Specifications before said revision is constructed.

Name _____ Date _____

CIVIL SURVEY CONSULTANTS, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS

2893 S. MERIDIAN ROAD
MERIDIAN, IDAHO 83642
(208)988-4312

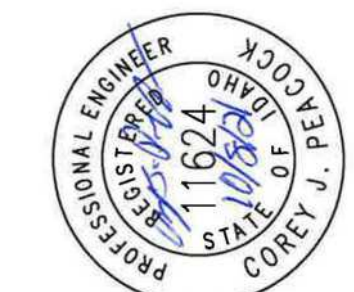
CITY OF MERIDIAN

FUTURE STATE HIGHWAY 16

WATER MAIN IMPROVEMENTS

DATE: SEPTEMBER 2021
DRAWING: SHT01.DWG
JOB NO: 21027

SHEET 1 OF 7



PROJECT NO.	21027
DESIGNED	
CIP	
DRAWN	
CIP	
CHECKED	
CIP	
APPROVED	

CITY OF MERIDIAN STANDARD NOTES:

GENERAL CONSTRUCTION

- All construction work shall be done in accordance with the current version of the Idaho Standards for Public Works Construction (ISPMC), the City of Meridian Supplemental Specifications to the ISPMC (and any addendums), Meridian Design Standards, the requirements of the Ada County Highway District (ACHD) and/or the requirements of the Idaho Transportation Department (ITD). The more stringent of any of these standards shall be the controlling standards or specifications.
- The Contractor shall have a copy of the latest City of Meridian Standard Specifications and Drawings on site or readily accessible at all times during construction (available on the website). Failure to have access to a current copy of the Standard Specifications on site could be grounds for a stop work order until the situation is resolved.
- The Contractor shall have plans stamped "Approved for Construction" by the City of Meridian on site at all times.
- All Contractors, Subcontractors and Utility Contractors shall attend a pre-construction conference prior to start of work.
- Contractors shall notify the appropriate agency when materials are on site or inspection of the work is required. No work may begin on any project without Twenty Four (24) hour prior notice.
- Contractor shall notify the Public Works Inspector 48 hours prior to the required testing. The Contractor may not open or close water valves.
- All material furnished on, or for the project must meet the minimum requirements of the approving agencies. At the request of the approving agency or the Design Engineer, Contractors shall furnish proof that all materials installed on this project meet the specification requirements set forth in General Construction Note No. 1.
- Work subject to approval by any governmental agency must be approved prior to (A) backfilling trenches for pipe; (B) placing of aggregate base; (C) placing of concrete; (D) placing of asphalt paving.
- Inspection, approval and final acceptance of all water and sewer construction shall be by the Public Works Department, and their decision shall be final. Such inspections shall not relieve the contractor from the responsibility of performing the work in an acceptable manner in accordance with the DEQ/QLPE approved construction plans.
- Any deviation from the approved plans and specifications must have the applicable agency approval in writing prior to construction.
- Prior to beginning installation of street lights, the electrical contractor shall obtain an Electrical Permit from the Building Division of the Meridian Public Works Department. Any deviation in street light locations from the approved plans must be approved in writing from the City Engineer.

ROADWAY

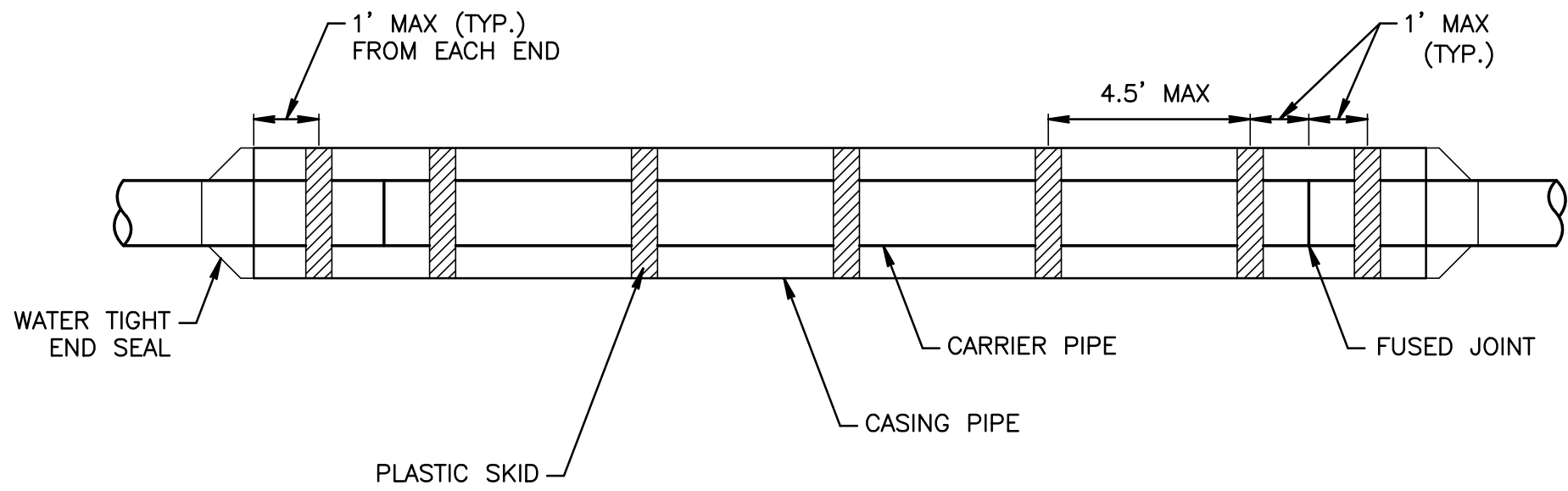
- ACHD or ITD will inspect all work within the public right-of-way to include utility trenches above the pipe zone.
- Traffic control beyond that provided under the prime roadway contract may be required for these utility improvements. All required traffic control shall conform to the requirements of ACHD, and the Manual on Uniform Traffic Control Devices. All required traffic control shall be considered incidental to the project and no separate payment will be made.
- When utility work occurs prior to the prime roadway construction, all utility trenches located within the limits of the prime roadway project that must be kept open to two way traffic and within existing paved surfaces shall be restored with Type "P" trench restoration. Trench restoration is considered temporary and will be maintained under the prime roadway contract following the initial installation. The initial trench repair must be accepted by ACHD and the prime contractor before maintenance responsibility is transferred to the prime contractor. All temporary trench restoration shall be considered incidental to the project and no separate payment shall be made.

WATER

- Construction of the water system shall conform to the standards in the "Idaho Rules for Public Drinking Water Systems (IDAPA 58.01.08)" as well as the standards and specifications referred to in General Construction Note No. 1.
- The horizontal separation of potable water mains and non-potable water mains (sanitary sewer, storm drain, and irrigation) shall be a minimum of ten (10) feet. Where it is necessary for a potable water main and non-potable water main to cross with less than eighteen (18) inches of vertical separation, the crossing shall be constructed in accordance with Section 542.07 of the Idaho Rules for Public Drinking Water Systems (IDAPA 58.01.08) and Section 430.02 of the Wastewater Rules (IDAPA 58.01.16).
- The horizontal separation of non-potable services and potable water services or potable water mains shall be a minimum of six (6) feet. Where it is necessary for a potable water main and non-potable water main to cross with less than eighteen (18) inches of vertical separation, the crossing shall be constructed in accordance with Section 542.07 of the Idaho Rules for Public Drinking Water Systems (IDAPA 58.01.08) and Section 430.02 of the Wastewater Rules (IDAPA 58.01.16).
- Place water service lines in a two (2) inch diameter pipe wherever the service line crosses a storm water treatment facility (i.e. seepage beds, drainage swales).
- The Contractor shall be responsible for providing continuous water service to all existing water users affected by construction. If water service must be interrupted, the Contractor shall coordinate with the Public Works Inspector.
- It is the intent of this project that all new water line work be performed in conjunction with ACHD's roadway reconstruction project. All water line work shall be closely coordinated with the prime contract to minimize the amount of trench work in the paved areas that must remain open to traffic. When utility construction must occur prior to the roadway work trenches shall be repaired with Temporary Type "P" surface restoration. See Roadway Note #3.
- Trench dewatering may be required to complete construction activities. Contractor is required to obtain necessary permits and approvals prior to starting dewatering.

SEWER

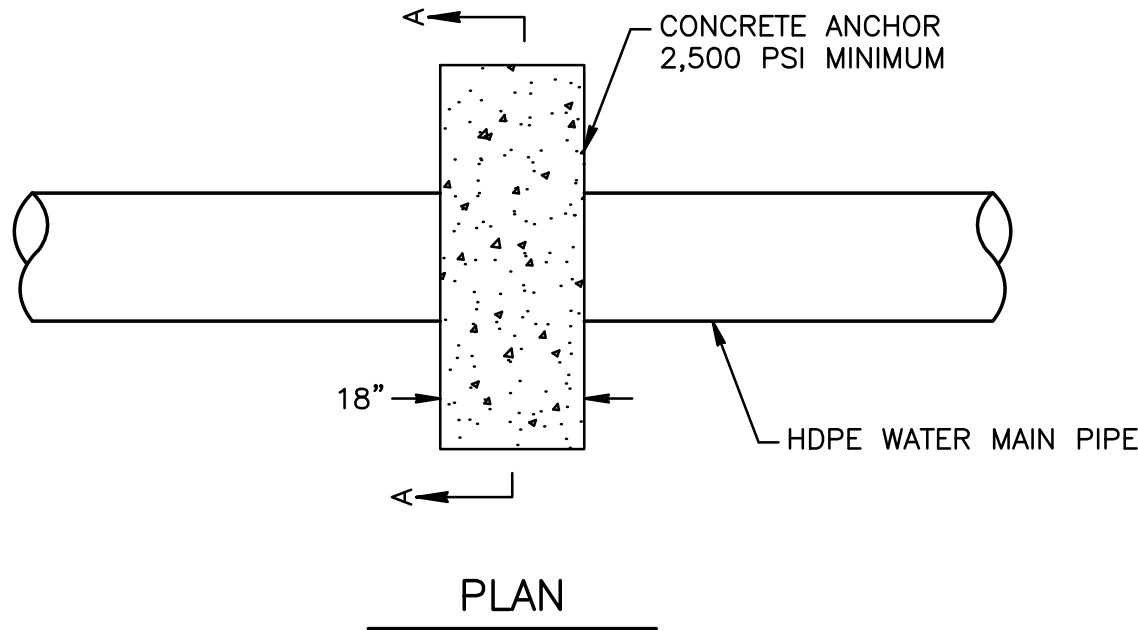
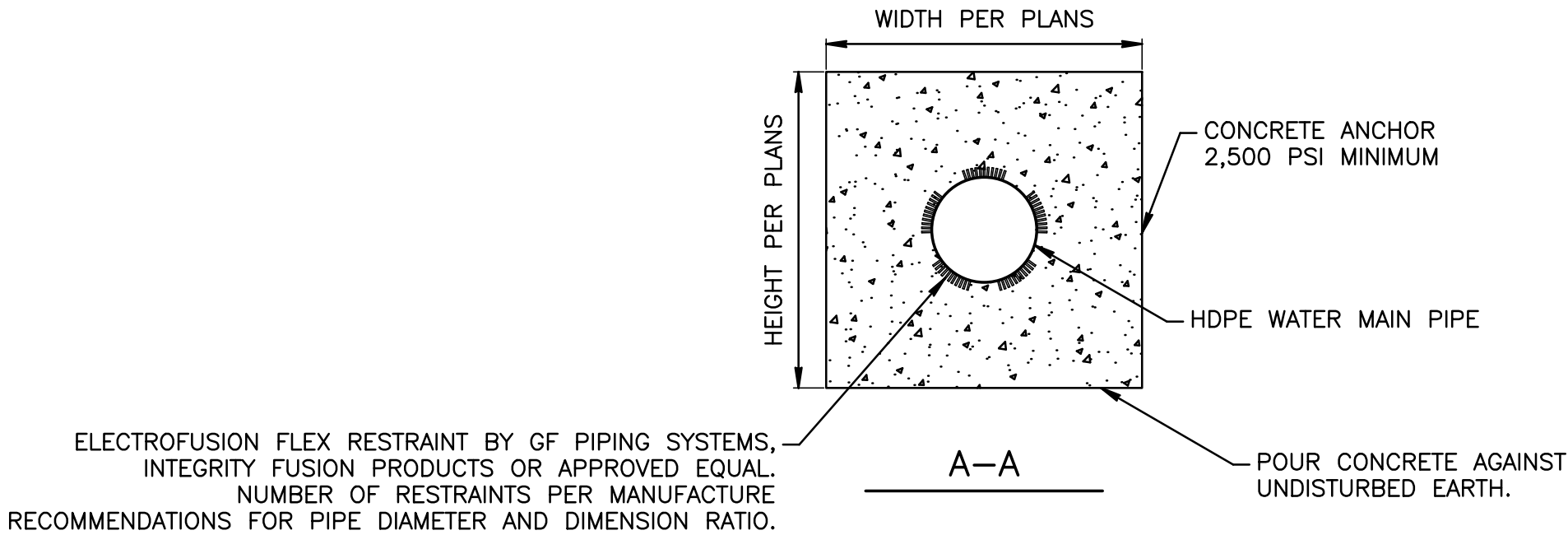
- Construction of the sewer system shall conform to the standards in the Wastewater Rules (IDAPA 58.01.16) as well as the standards and specifications referred to in General Construction Note No. 1.
- The horizontal separation of potable water mains and non-potable water mains (sanitary sewer, storm drain, and irrigation) shall be a minimum of ten (10) feet. Where it is necessary for a potable water main and non-potable water main to cross with less than eighteen (18) inches of vertical separation, the crossing shall be constructed in accordance with Section 542.07 of the Idaho Rules for Public Drinking Water Systems (IDAPA 58.01.08) and Section 430.02 of the Wastewater Rules (IDAPA 58.01.16).
- The horizontal separation of non-potable services and potable water services or potable water mains shall be a minimum of six (6) feet. Where it is necessary for a potable water main and non-potable water main to cross with less than eighteen (18) inches of vertical separation, the crossing shall be constructed in accordance with Section 542.07 of the Idaho Rules for Public Drinking Water Systems (IDAPA 58.01.08) and Section 430.02 of the Wastewater Rules (IDAPA 58.01.16).
- Place sewer service lines in a six (6) inch diameter water class pipe wherever the service line crosses a stormwater treatment facility (i.e., seepage beds, drainage swales).
- It is the intent of this project that all new sewer line work be performed in conjunction with ACHD's roadway reconstruction project. All sewer line work shall be closely coordinated with the prime contract to minimize the amount of trench work in the paved areas that must remain open to traffic. When utility construction must occur prior to the roadway work trenches shall be repaired with Temporary Type "P" surface restoration. See Roadway Note #3.
- Trench dewatering may be required to complete construction activities. Contractor is required to obtain necessary permits and approvals prior to starting dewatering.



WATER MAIN CASING DETAIL

N.T.S.

- NOTES: 1. CASING PIPE SHALL BE INSTALLED AT THE SAME SLOPE AS THE CARRIER PIPE AND THE CARRIER PIPE SHALL BE CENTERED INSIDE THE CASING PIPE.
2. THE ENTIRE ANNULAR SPACE BETWEEN THE CASING AND CARRIER PIPES SPACE SHALL BE FILLED IN ACCORDANCE WITH THE ISPMC AND CITY OF MERIDIAN SUPPLEMENTAL SPECIFICATIONS.



HDPE PIPE CONCRETE ANCHOR

N.T.S.

APPROVED FOR CONSTRUCTION

These plans and/or specifications have been reviewed for compliance with Meridian City Standards and Specifications. This review does not relieve the owner, engineer, or contractor of the responsibility to design and/or construct these facilities in compliance with all current applicable federal, state and local laws, rules, regulations, ordinances, development agreements, specifications, orders or approvals, all of which the City retains the right to enforce. Inconsistencies not noted by City staff shall not be construed as approved unless specifically addressed in writing by the City. Any proposed revision to these plans must be submitted for review and compliance with the Meridian City Standards and Specifications before said revision is constructed.

Name _____ Date _____



PROJECT NO.	21027	DESIGNED	BBA/CJP	DRAWN	BBA/CJP	CHECKED	CJP	APPROVED
REVISIONS	ITEM	DATE						
NO.								

CIVIL SURVEY CONSULTANTS, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS

2893 S. MERIDIAN ROAD
MERIDIAN, IDAHO 83642
(208)888-4312

CITY OF MERIDIAN

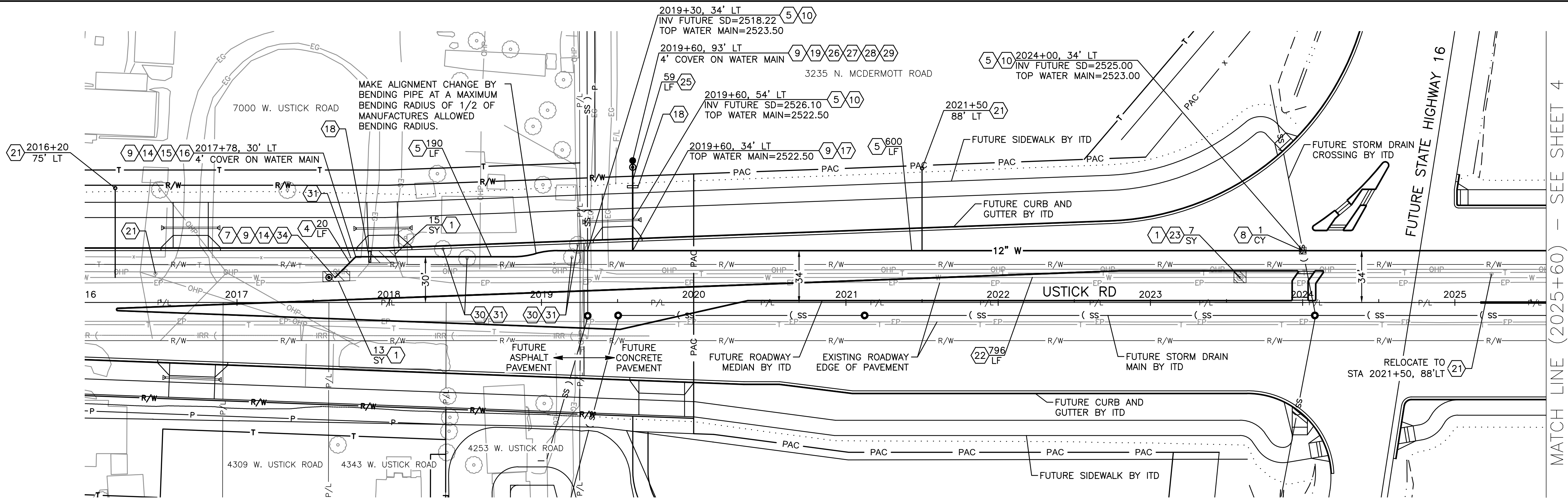
FUTURE STATE HIGHWAY 16

WATER MAIN IMPROVEMENTS

DATE: SEPTEMBER 2021

DRAWING: SHT02.DWG

JOB NO: 21027

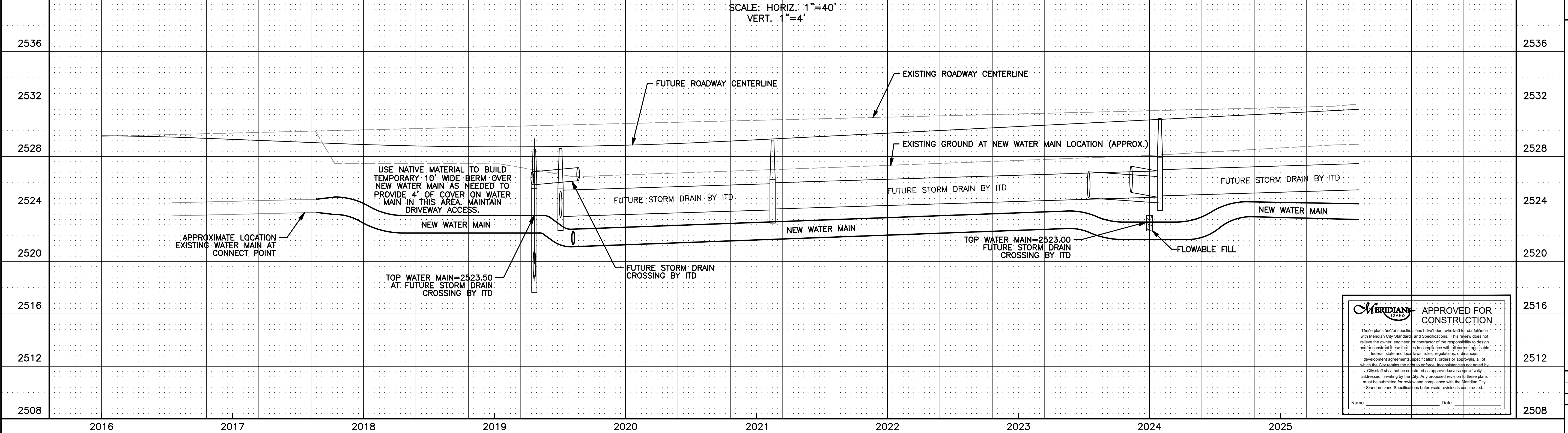
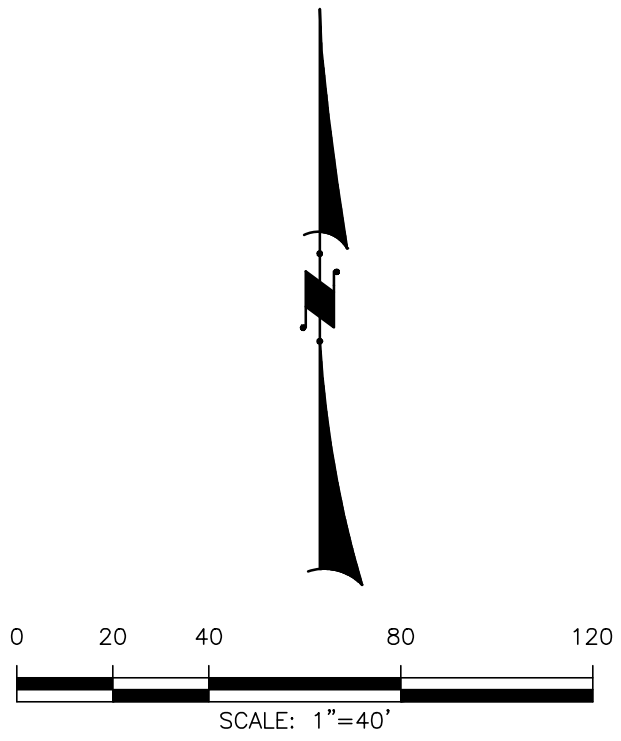


MATCH LINE (2025+60) - SEE SHEET 4

NOTES

- | | | |
|---|--|---|
| 1 TYPE C SURFACE RESTORATION, ITEM 307.4.1.E.1. | 17 16"x16"x12" (IPS), HDPE, AWWA C906, PE4710, DR7, TEE, INCIDENTAL TO PIPE ITEM. | 28 12" (IPS) HDPE, AWWA C906, PE4710, DR7, FLANGE ADAPTER, INCIDENTAL TO PIPE ITEM. |
| 4 12" PVC, AWWA C900, DR18, WATER MAIN, ITEM 401.4.1.A.1. | 18 HDPE PIPE CONCRETE ANCHOR, 60" WIDE X 60" HIGH X 18" THICK, SEE DETAIL ON SHEET 2, INCIDENTAL TO PIPE ITEM. | 29 12"x8" DUCTILE IRON REDUCER, FLxFL, INCIDENTAL TO PIPE ITEM. |
| 5 16" (IPS) HDPE, AWWA C906, PE4710, DR7, WATER MAIN, ITEM 401.4.1.A.1. | 19 2" BLOW-OFF ASSEMBLY PER MERIDIAN SD-W13, ITEM SP-1. | 30 REMOVE EXISTING TREE OR BUSH AS NECESSARY, INCIDENTAL TO PROJECT. |
| 7 12" GATE VALVE, FLxMJ, ITEM 402.4.1.A.1. | 21 RELOCATE EXISTING LOCATE STATION PER MERIDIAN SD-G5, ITEM 401.4.1.C.1. | 31 REMOVE AND RESET EXISTING FENCE AS NECESSARY, INCIDENTAL TO PROJECT. |
| 8 CULVERT CROSSING CDF (FLOWABLE) BACKFILL, ITEM 306.4.1.G.1. | 22 ABANDON EXISTING 12" WATER MAIN IN PLACE, FILL WITH SAND OR LOW STRENGTH GROUT. ITEM SP-2. | 34 CONNECT TO EXISTING 12" PVC WATER MAIN, INCIDENTAL TO PIPE ITEM. |
| 9 CONCRETE THRUST BLOCK, INCIDENTAL TO PROJECT. | 23 REMOVE EXISTING VALVE, INCIDENTAL TO ITEM SP-2. | |
| 10 NON-POTABLE PIPE CROSSING, SEE WATER NOTES ON SHEET 2. | 25 12" (IPS) HDPE, AWWA C906, PE4710, DR7, WATER MAIN, ITEM 401.4.1.A.1. | |
| 14 12" DUCTILE IRON 45° BEND, FLxMJ, INCIDENTAL TO PIPE ITEM. | 26 HAMMERHEAD THRUST BLOCK, INCIDENTAL TO PROJECT. | |
| 15 16"x12" DUCTILE IRON REDUCER, FLxFL, INCIDENTAL TO PIPE ITEM. | 27 8" GATE VALVE, FLxMJ, ITEM 402.4.1.A.1. | |
| 16 16" (IPS) HDPE, AWWA C906, PE4710, DR7, FLANGE ADAPTER, INCIDENTAL TO PIPE ITEM. | | |

- NOTES:
1. THE NEW WATER MAIN SHALL BE INSTALLED AT THE ELEVATIONS CALLED OUT ON THE PLANS TO PROVIDE SEPARATION FROM THE FUTURE STORM DRAIN AND IRRIGATION PIPES AND TO PROVIDE PROPER COVER OVER THE NEW WATER MAIN FOR THE EXISTING AND FUTURE ROADWAY FINISHED GRADES. PROVIDE AT LEAST 4' OF COVER BELOW EXISTING FINISH GRADE.
 2. NO FITTINGS OR CONNECTIONS SHALL BE INSTALLED ON THE HDPE WATER MAIN UNLESS OTHERWISE NOTED ON THE PLANS. VERTICAL DEFLECTIONS SHALL BE ACCOMPLISHED BY BENDING THE PIPE AT A MAXIMUM OF 1/2 OF THE MANUFACTURES ALLOWED BENDING RADIUS.





APPROVED FOR CONSTRUCTION

These plans and/or specifications have been reviewed for compliance with Meridian City Standards and Specifications. This review does not relieve the owner, engineer, or contractor of the responsibility to design and/or construct these facilities in compliance with all current applicable federal, state and local laws, rules, regulations, ordinances, development agreements, specifications, orders or approvals, all of which the City retains the right to enforce, incorporate, and control by.

City staff shall not be construed as approved unless specifically addressed in writing by the City. Any proposed revision to these plans must be submitted for review and compliance with the Meridian City Standards and Specifications before said revision is constructed.

Name

Date



PROJECT NO.	21027
DESIGNED	BBV/CJP
DRAWN	BBV/CJP
CHECKED	CJP
APPROVED	

REVISIONS	DATE	ITEM
NO.		

CIVIL SURVEY CONSULTANTS, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS

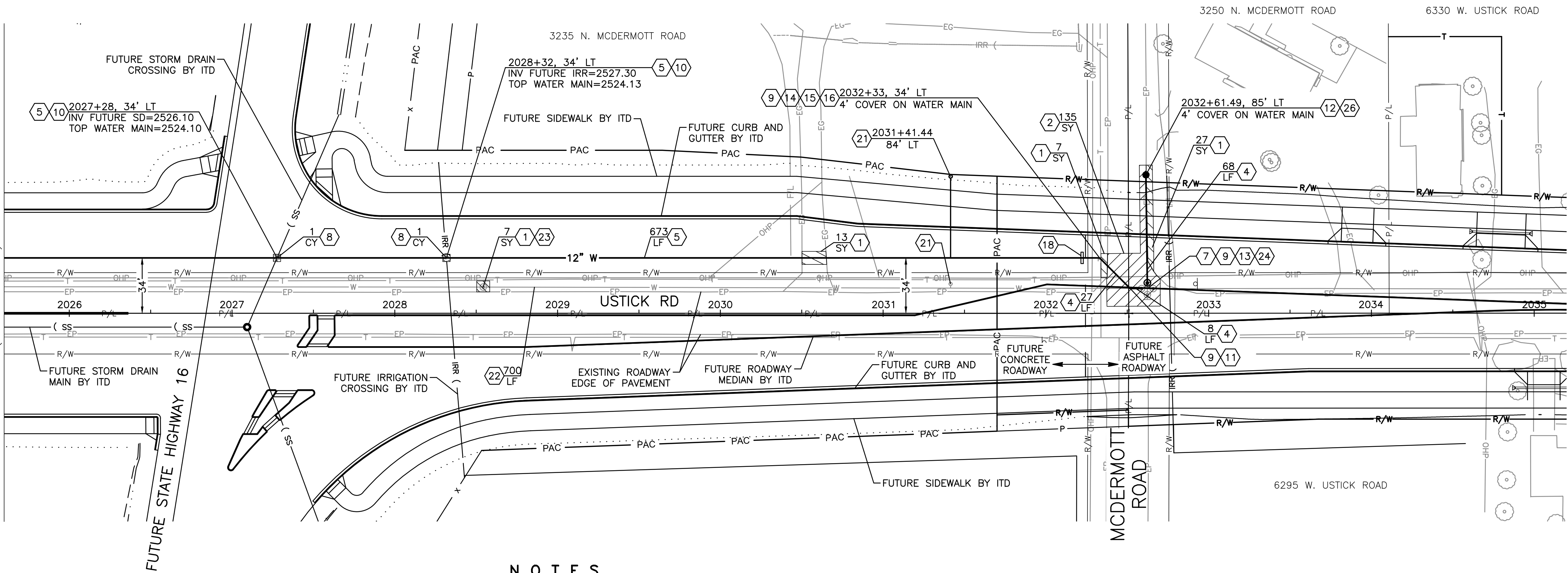
2893 S. MERIDIAN ROAD
MERIDIAN, IDAHO 83642
(208)888-4312

CITY OF MERIDIAN	FUTURE STATE HIGHWAY 16	WATER MAIN IMPROVEMENTS

DATE: SEPTEMBER 2021
DRAWING: DESIGN.DWG
JOB NO: 21027

SHEET 3 OF 7

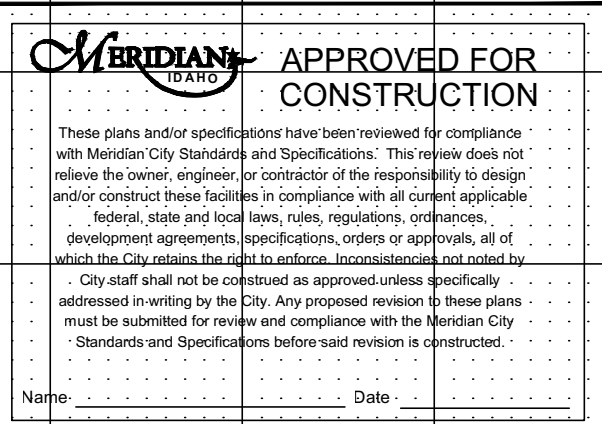
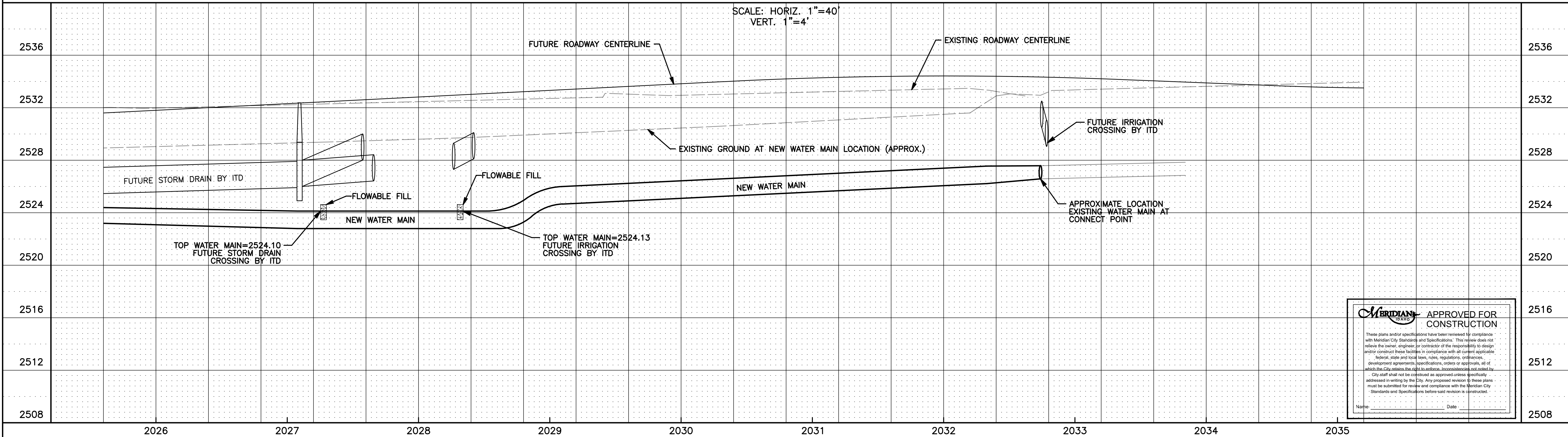
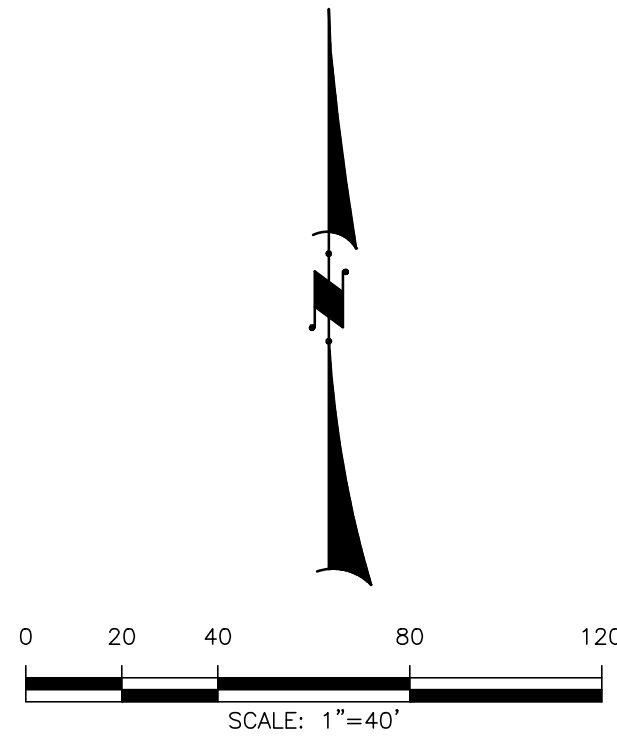
MATCH LINE (2025+60) - SEE SHEET 3



NOTES

- | | | | | | |
|----|---|----|---|----|---|
| 1 | TYPE C SURFACE RESTORATION, ITEM 307.4.1.E.1. | 12 | 2" BLOW-OFF ASSEMBLY PER MERIDIAN SD-W12, ITEM SP-1. | 23 | REMOVE EXISTING VALVE, INCIDENTAL TO ITEM SP-2. |
| 2 | TYPE P SURFACE RESTORATION, MATCH EXISTING SECTION, ITEM 307.4.1.G.1. | 13 | CONNECT TO EXISTING 12" GATE VALVE, INCIDENTAL TO PIPE ITEM. | 24 | REMOVE BLIND FLANGE AND CONNECT TO EXISTING CROSS, INCIDENTAL TO PIPE ITEM. |
| 4 | 12" PVC, AWWA C900, DR18, WATER MAIN, ITEM 401.4.1.A.1. | 14 | 12" DUCTILE IRON 45° BEND, FLxMJ, INCIDENTAL TO PIPE ITEM. | 26 | HAMMERHEAD THRUST BLOCK, INCIDENTAL TO PROJECT. |
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| 7 | 12" GATE VALVE, FLxMJ, ITEM 402.4.1.A.1. | 16 | 16" (IPS) HDPE, AWWA C906, PE4710, DR7, FLANGE ADAPTER, INCIDENTAL TO PIPE ITEM. | | |
| 8 | CULVERT CROSSING CDF (FLOWABLE) BACKFILL, ITEM 306.4.1.G.1. | 18 | HDPE PIPE CONCRETE ANCHOR, 60" WIDE X 60" HIGH X 18" THICK, SEE DETAIL ON SHEET 2, INCIDENTAL TO PIPE ITEM. | | |
| 9 | CONCRETE THRUST BLOCK, INCIDENTAL TO PROJECT. | 21 | RELOCATE EXISTING LOCATE STATION PER MERIDIAN SD-G5, ITEM 401.4.1.C.1. | | |
| 10 | NON-POTABLE PIPE CROSSING, SEE WATER NOTES ON SHEET 2. | 22 | ABANDON EXISTING 12" WATER MAIN IN PLACE, FILL WITH SAND OR LOW STRENGTH GROUT. ITEM SP-2. | | |
| 11 | 12" DUCTILE IRON 45° BEND, MJxMJ, INCIDENTAL TO PIPE ITEM. | | | | |

- NOTES:
- THE NEW WATER MAIN SHALL BE INSTALLED AT THE ELEVATIONS CALLED OUT ON THE PLANS TO PROVIDE SEPARATION FROM THE FUTURE STORM DRAIN AND IRRIGATION PIPES AND TO PROVIDE PROPER COVER OVER THE NEW WATER MAIN FOR THE EXISTING AND FUTURE ROADWAY FINISHED GRADES. PROVIDE AT LEAST 4' OF COVER BELOW EXISTING FINISH GRADE.
 - NO FITTINGS OR CONNECTIONS SHALL BE INSTALLED ON THE HDPE WATER MAIN UNLESS OTHERWISE NOTED ON THE PLANS. VERTICAL DEFLECTIONS SHALL BE ACCOMPLISHED BY BENDING THE PIPE AT A MAXIMUM OF 1/2 OF THE MANUFACTURES ALLOWED BENDING RADIUS.



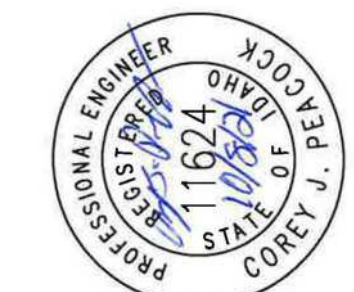
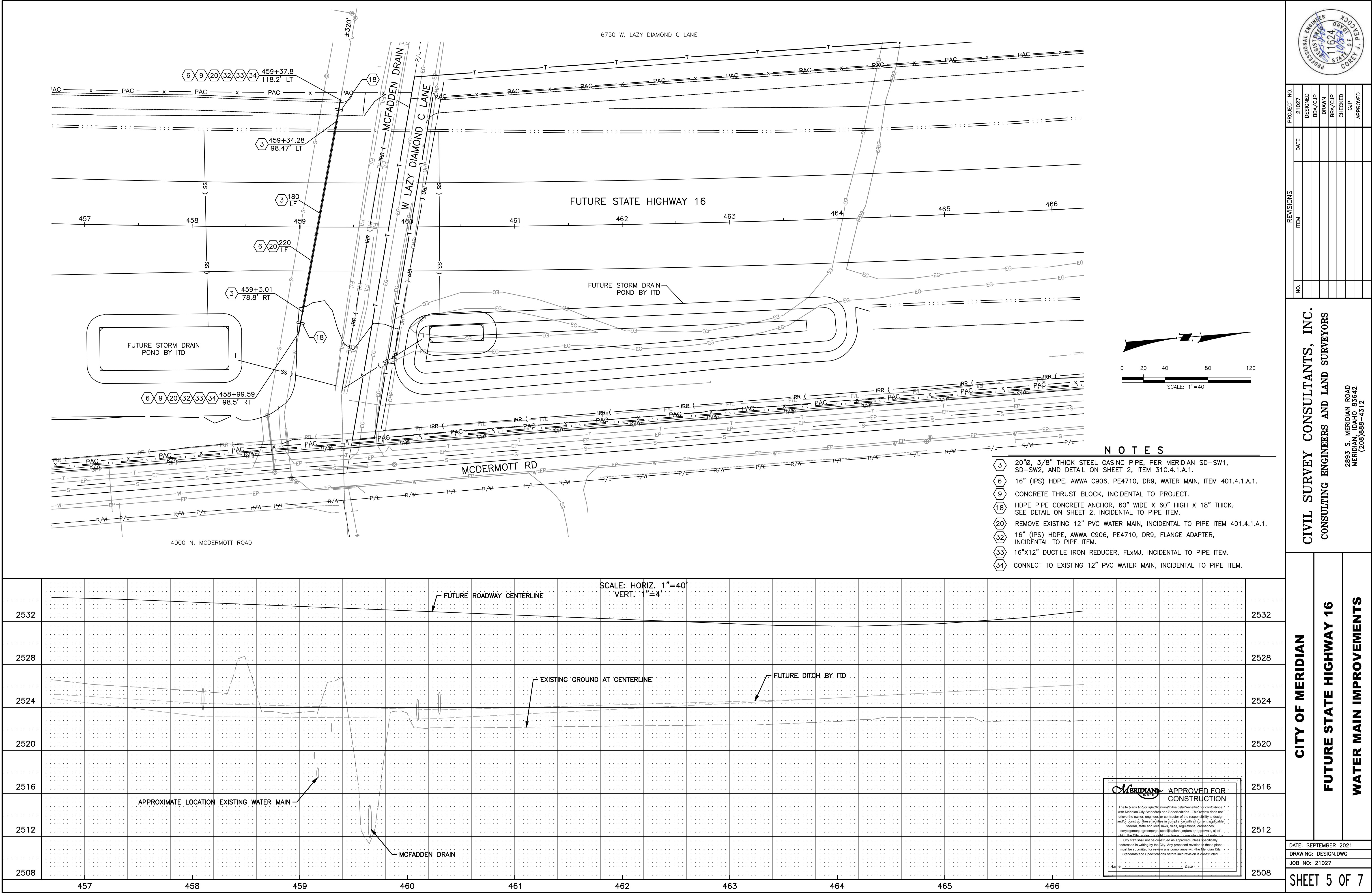
CIVIL SURVEY CONSULTANTS, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS

2893 S. MERIDIAN ROAD
MERIDIAN, IDAHO 83642
(208)888-4312

CITY OF MERIDIAN
FUTURE STATE HIGHWAY 16
WATER MAIN IMPROVEMENTS

DATE: SEPTEMBER 2021
DRAWING: DESIGN.DWG
JOB NO: 21027

SHEET 4 OF 7

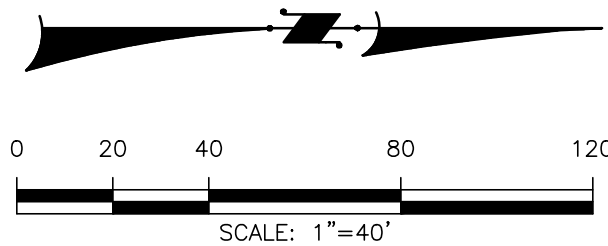


PROJECT NO.		DATE		DESIGNED		DRAWN		CHECKED		APPROVED	
21027				BBA/CJP		BBA/CJP		BBA/CJP		CJP	
REVISIONS		ITEM		NO.							

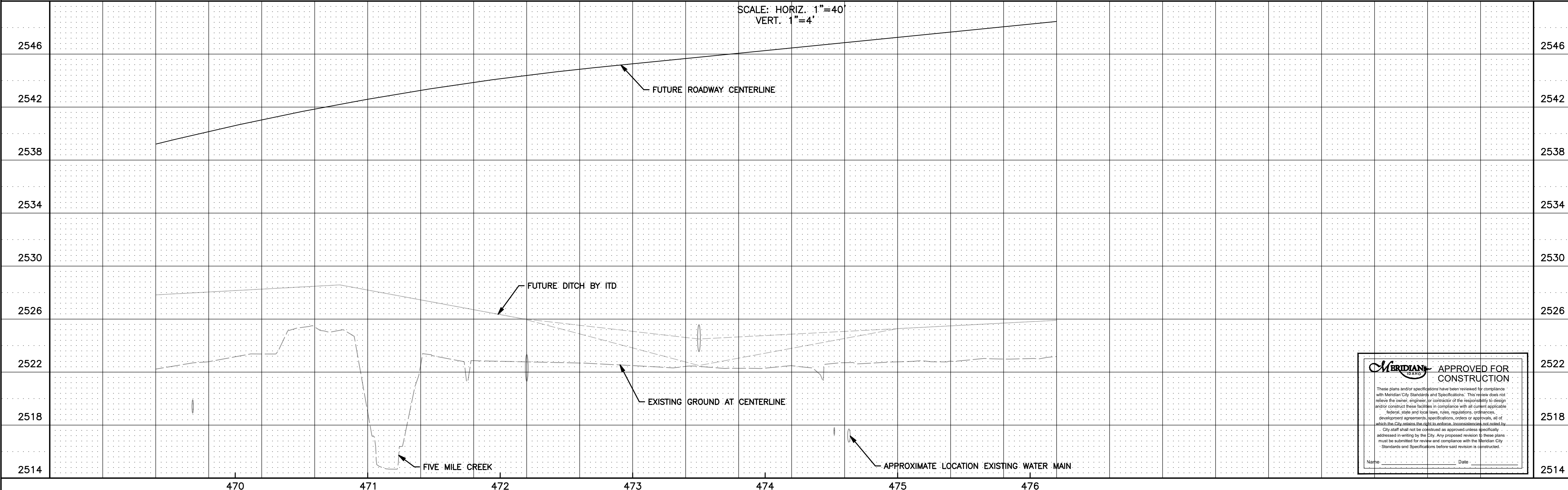
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CITY OF MERIDIAN		FUTURE STATE HIGHWAY 16		WATER MAIN IMPROVEMENTS	
2532		2532		2532	
2528		2528		2528	
2524		2524		2524	
2520		2520		2520	
2516		2516		2516	
2512		2512		2512	
2508		2508		2508	

DATE: SEPTEMBER 2021
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SHEET 5 OF 7



- | | |
|----|---|
| 1 | TYPE C SURFACE RESTORATION, ITEM 307.4.1.E.1. |
| 3 | 20"Ø, 3/8" THICK STEEL CASING PIPE, PER MERIDIAN SD-SW1, SD-SW2, AND DETAIL ON SHEET 2, ITEM 310.4.1.A.1. |
| 6 | 16" (IPS) HDPE, AWWA C906, PE4710, DR9, WATER MAIN, ITEM 401.4.1.A.1. |
| 9 | CONCRETE THRUST BLOCK, INCIDENTAL TO PROJECT. |
| 18 | HDPE PIPE CONCRETE ANCHOR, 60" WIDE X 60" HIGH X 18" THICK, SEE DETAIL ON SHEET 2, INCIDENTAL TO PIPE ITEM. |
| 20 | REMOVE EXISTING 12" PVC WATER MAIN, INCIDENTAL TO PIPE ITEM 401.4.1.A.1. |
| 32 | 16" (IPS) HDPE, AWWA C906, PE4710, DR9, FLANGE ADAPTER, INCIDENTAL TO PIPE ITEM. |
| 33 | 16"x12" DUCTILE IRON REDUCER, FLxMJ, INCIDENTAL TO PIPE ITEM. |
| 34 | CONNECT TO EXISTING 12" PVC WATER MAIN, INCIDENTAL TO PIPE ITEM. |



NO.	REVISIONS		DATE	PROJECT NO.
	ITEM			
				21027
				DESIGNED
				BBA/CJP
				DRAWN
				BBA/CJP
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				CJP
				APPROVED

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CITY OF MERIDIAN

FUTURE STATE HIGHWAY 16

WATER MAIN IMPROVEMENTS

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GENERAL INFORMATION

THE PROPOSED PROJECT AREA IS APPROXIMATELY 1.50 ACRES AND IS LOCATED IN MERIDIAN IN THE EAST 1/2 OF SECTIONS 29 AND 32, TOWNSHIP 4 NORTH, RANGE 1 WEST. THE PROJECT CONSISTS OF REPLACING 2,000 LF OF EXISTING 12" WATER MAIN AND THE INSTALLATION OF 430 LF OF NEW 20" STEEL CASING. WORK THAT WILL BE PERFORMED FOR THIS PROJECT WILL CONSIST OF REMOVING SOME EXISTING PAVEMENT; EXCAVATION AND INSTALLATION OF NEW WATER MAIN AND STEEL CASING STATIONS; BACKFILLING AND SURFACE RESTORATION (ASPHALT AND GRAVEL). WORK IS EXPECTED TO BE COMPLETED WITHIN NINETY DAYS FROM THE START OF CONSTRUCTION. THE ANTICIPATED SCHEDULING OF CONSTRUCTION AND INSTALLATION OF BMPs IS SHOWN BELOW. A MORE DETAILED CONSTRUCTION SCHEDULE WILL BE ESTABLISHED DURING THE PRECONSTRUCTION MEETING.

ANTICIPATED SCHEDULE											
WORK ACTIVITY	2021										
	J	F	M	A	M	J	J	A	S	O	N
PRE-CONSTRUCTION MEETING				X							
INSTALL TEMPORARY BMPs				X							
CONSTRUCTION ACTIVITIES				X	X	X					
REMOVE TEMPORARY BMPs					X						

RECEIVING WATERS

THE MCFADDEN DRAIN AND FIVEMILE CREEK ARE LOCATED ADJACENT TO A PORTION OF THE PROJECT AREA.

SENSITIVE AREAS

THIS SITE DOES NOT CONTAIN ANY UNIQUE OR SENSITIVE AREAS TO BE PRESERVED.

CONSTRUCTION ACTIVITIES

THE PROJECT CONSISTS OF REPLACING 2,000 LF OF EXISTING 12" WATER MAIN AND THE INSTALLATION OF 430 LF OF NEW 20" STEEL CASING. WORK THAT WILL BE PERFORMED FOR THIS PROJECT WILL CONSIST OF REMOVING SOME EXISTING PAVEMENT; EXCAVATION AND INSTALLATION OF NEW WATER MAIN AND STEEL CASING STATIONS; BACKFILLING AND SURFACE RESTORATION (ASPHALT AND GRAVEL). WORK IS EXPECTED TO BE COMPLETED WITHIN NINETY DAYS FROM THE START OF CONSTRUCTION. DETAILED CONSTRUCTION SCHEDULE WILL BE ESTABLISHED DURING THE PRECONSTRUCTION MEETING.

POTENTIAL OF SOURCES OF SEDIMENT POLLUTION INCLUDE EXCAVATION OF EXISTING ASPHALT, SPOILS FROM TRENCH EXCAVATION, PAVING OPERATIONS, VEHICLE TRACKING, AND STOCKPILES.

OTHER POTENTIAL SOURCES OF POLLUTION INCLUDE CONCRETE WASHOUT AND WASTE, SOLID WASTE FROM PAVING OPERATIONS, ON-SITE STORAGE OF CONSTRUCTION MATERIALS, FUEL TANKS, PORTA-POTTYS, CHEMICAL STORAGE AREAS, AND GENERAL SITE LITTER.

BEST MANAGEMENT PRACTICES (BMPs)

BEST MANAGEMENT PRACTICES SHALL BE USED THROUGHOUT THE SITE DURING CONSTRUCTION TO PREVENT SEDIMENT AND OTHER CONTAMINANTS FROM ENTERING THE STORM WATER FACILITIES AND DRAINAGES. THE BMP'S SHALL BE INSTALLED PRIOR TO CONSTRUCTION ACTIVITIES AND REMOVED UPON PROJECT COMPLETION.

INLET PROTECTION BMPs SHALL BE PLACED AT ALL STORM WATER INLET LOCATIONS WITHIN AND IMMEDIATELY DOWNSTREAM OF THIS PROJECT. INLET PROTECTION BMPs SHALL CONSIST OF INSTALLING AND MAINTAINING A STORMGAURD BRAND (OR EQUIV.) SEDIMENT CATCH BASIN INSERT IN EACH STORM DRAIN INLET AS INDICATED ON THIS PLAN PER DEQ BMP #31 OR PLACING SAND OR ROCK FILLED BAGS AROUND SLOTTED MANHOLE COVERS.

STRAW WATTLES SHALL BE PLACED ALONG EXISTING WATERWAYS PER DEQ BMP #35.

AT A MINIMUM, A STABILIZED CONSTRUCTION ENTRANCE PER DEQ BMP #5 SHALL BE INSTALLED AT EACH END OF USTICK ROAD AND ACCESS POINTS TO MCDERMOTT ROAD. MODIFY ENTRANCES AS NECESSARY TO COMPLETE PROJECT.

DISTURBED AREAS AND STOCKPILES LEFT INACTIVE FOR MORE THAN 14 CONSECUTIVE DAYS SHALL BE PROTECTED WITH A TEMPORARY PERIMETER SEDIMENT BARRIER SUCH AS SAND BAGS, SILT FENCES, BERMS, DIKES, FIBER ROLLS, OR GRAVEL BAGS. STOCKPILES SHALL ALSO BE PROTECTED PRIOR TO ANY RAIN EVENT.

THE CONTRACTOR SHALL SWEEP-UP, SHOVEL, OR OTHERWISE CLEAN MUD OR DIRT FROM PUBLIC RIGHT-OF-WAYS AND OTHER PAVED AREAS IMPACTED DURING CONSTRUCTION EACH DAY OR AS NEEDED, ESPECIALLY DURING WET WEATHER.

THE CONTRACTOR SHALL KEEP THE SITE WATERED WITH A WATER TRUCK DURING THE HOT-DRY MONTHS TO PREVENT EXCESSIVE DUST.

PAVED STREETS AND OTHER PAVED AREAS SHALL BE SWEEPED ROUTINELY WHEN EXCESSIVE DUST OR DIRT BUILD-UP IS PRESENT.

BMPs SHALL BE INSPECTED AND MAINTAINED WEEKLY AND AFTER STORM EVENTS BY THE RESPONSIBLE PERSON TO VERIFY THEY ARE IN WORKING ORDER. INSPECTION REPORTS WILL BE LOGGED WEEKLY AND KEPT AT JOB SITE.

DEWATERING

TRENCH DEWATERING ACTIVITIES MAY BE REQUIRED ON THIS PROJECT. PROPOSED DEWATERING ACTIVITIES SHALL BE APPROVED BY THE CITY OF MERIDIAN PRIOR TO STARTING DEWATERING ACTIVITIES. SEDIMENT WILL BE REMOVED FROM WATER BY SEDIMENT BASIN OR OTHER APPLICABLE STORM WATER BMP PRIOR TO DISCHARGING THE WATER INTO ANY STORM DRAIN SYSTEM OR WATERWAY. DEWATERING ACTIVITIES WILL COMPLY WITH DEQ SHORT TERM ACTIVITY EXEMPTION. PERMISSION SHALL BE OBTAINED FROM ACHD PRIOR TO DISCHARGING TO ANY STORM WATER SYSTEM.

MATERIALS AND WASTE MANAGEMENT BMPs

MATERIALS STORED ON THE PROJECT SITE WILL CONSIST OF PIPING, GRAVEL AND PORTA-POTS. GRAVEL AND PIPING WILL BE STOCK PILED AT LOCATIONS OUT OF THE WAY OF CONSTRUCTION ACTIVITIES AND AWAY FROM THE RIGHT-OF-WAY AND AT LEAST 50' AWAY FROM STORMWATER CONVEYANCES. PIPING WILL BE USED IN CONSTRUCTION AND ANY EXTRA WILL BE REMOVED FROM PROJECT SITE. GRAVEL WILL BE USED IN CONSTRUCTION AND ANY EXTRA WILL BE REMOVED FROM THE PROJECT SITE. PORTA-POTS SHALL BE LOCATED AT LEAST 50' AWAY FROM STORM WATER CONVEYANCES AND IRRIGATION FACILITIES AND LOCATED SO THAT, IN THE EVENT OF A SPILL, CONTAMINATION WILL BE CONTAINED AND NOT ENTER THE STORM DRAIN SYSTEM OR IRRIGATION FACILITIES. PORTA-POTS SHALL BE LOCATED ON A TRAILER OR STAKED. PORTA-POTS WILL BE CLEANED ACCORDING TO SUPPLIERS SCHEDULE AND REMOVED FROM THE SITE AFTER COMPLETION OF CONSTRUCTION. OTHER BMP'S FOR MATERIAL AND WASTE MANAGEMENT INCLUDE:

CONTRACTOR SHALL ESTABLISH A STAGING AREA ON SITE AND ALL MATERIAL STORAGE AREAS SHALL BE LOCATED AT LEAST 50' AWAY FROM STORMWATER CONVEYANCES AND IRRIGATION FACILITIES OR AS NECESSARY TO PREVENT MATERIALS FROM ENTERING SAID FACILITIES.

OIL, GASOLINE, AND ANY HAZARDOUS SUBSTANCE SHALL BE STORED IN DRUMS AND BAGS ON PALLETS UNDER COVER AND IN SECONDARY CONTAINMENT. MATERIALS SHALL BE STORED IN THEIR ORIGINAL CONTAINERS WITH THEIR ORIGINAL PRODUCT LABELS.

THE CONTRACTOR SHALL MAINTAIN APPROPRIATE MATERIALS ON SITE TO MANAGE SPILLS FROM STORED MATERIALS AND CONSTRUCTION EQUIPMENT INCLUDING FUEL AND OIL.

A MATERIAL INVENTORY, MATERIAL SAFETY SHEETS, AND EMERGENCY CONTACT INFORMATION WILL BE KEPT IN THE ON-SITE TRAILER.

NO SEWAGE CONTAMINATED MATERIAL REMOVED FROM A TRENCH SHALL BE STORED OR STOCKPILED IN THE RIGHT-OF-WAY.

ALL MAJOR EQUIPMENT/VEHICLE FUELING AND MAINTENANCE WILL BE PERFORMED OFF-SITE. ALL EQUIPMENT FLUIDS GENERATED FROM MAINTENANCE ACTIVITIES WILL BE DISPOSED OF INTO DESIGNATED DRUMS STORED ON SPILL PALLETS.

ABSORBENT, SPILL CLEANUP MATERIALS AND SPILL KITS SHALL BE AVAILABLE AT THE COMBINED STAGING AND MATERIALS STORAGE AREA. DRIP PANS WILL BE PLACED UNDER ALL EQUIPMENT RECEIVING MAINTENANCE AND VEHICLES AND EQUIPMENT PARKED OVERNIGHT. LEAKS SHALL BE REPAIRED IMMEDIATELY OR PROBLEM EQUIPMENT/VEHICLE SHALL BE REMOVED FROM PROJECT SITE.

ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AND AN AMPLE AMOUNT OF CLEANUP MATERIALS SHALL BE KEPT ON SITE.

ALL ON SITE PERSONNEL SHALL BE TRAINED IN THE CORRECT PROCEDURES FOR SPILL PREVENTION AND CONTROL. NOTIFICATION PROCEDURES AND CONTACT INFORMATION FOR LOCAL POLICE DEPARTMENT, FIRE DEPARTMENT, AND SEWAGE TREATMENT FACILITY SHALL BE POSTED NEAR MATERIAL STORAGE AREA.

THE CONTRACTOR SHALL DISPOSE OF EXCESS CONSTRUCTION MATERIALS AND DEBRIS IN WATERTIGHT DUMPSTERS.

A TEMPORARY WASHOUT AREA FOR HAZARDOUS WASTE (INCLUDING CONCRETE WASH WATER) SHALL BE EXCAVATED OR THE WASTE SHALL BE PLACED IN CONTAINERS PROVIDED ON SITE. WASHOUT AREAS SHALL BE LOCATED A MINIMUM OF 50 FEET FROM STORM DRAIN INLETS OR WATER COURSES AND BE CONSTRUCTED PER ITD STANDARD DRAWING P-3-E, OR APPROVED EQUIVALENT. MATERIAL SHALL BE ALLOWED TO DRY AND THEN DISPOSED OF AS A SOLID WASTE.

* CONCRETE WASHOUT AREA, SOLID WASTE DISPOSAL AREA, SANITARY FACILITIES AREA, MATERIAL STORAGE AREA AND ESCP PLAN LOCATION TO BE IDENTIFIED BY GENERAL CONTRACTOR.

END OF PROJECT

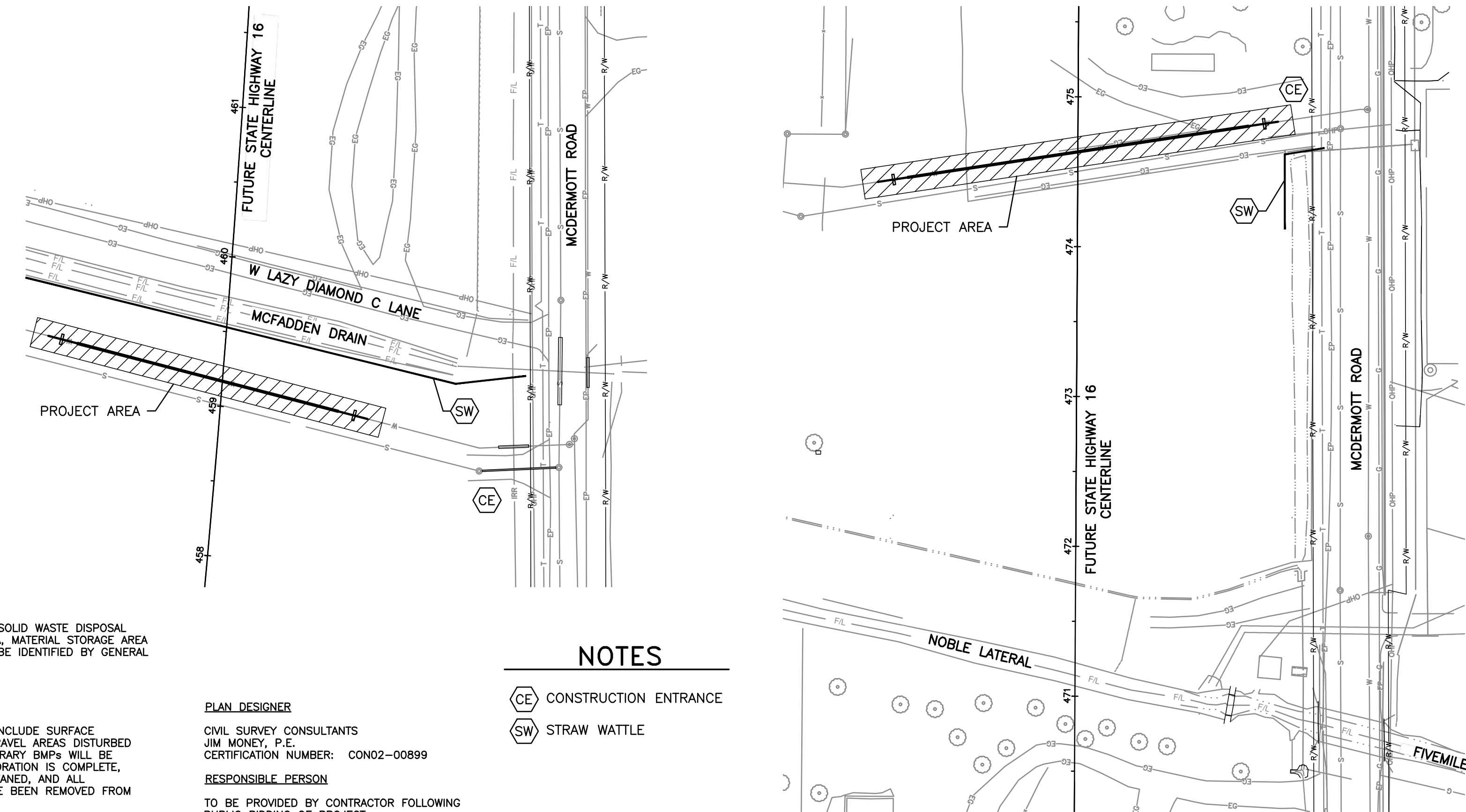
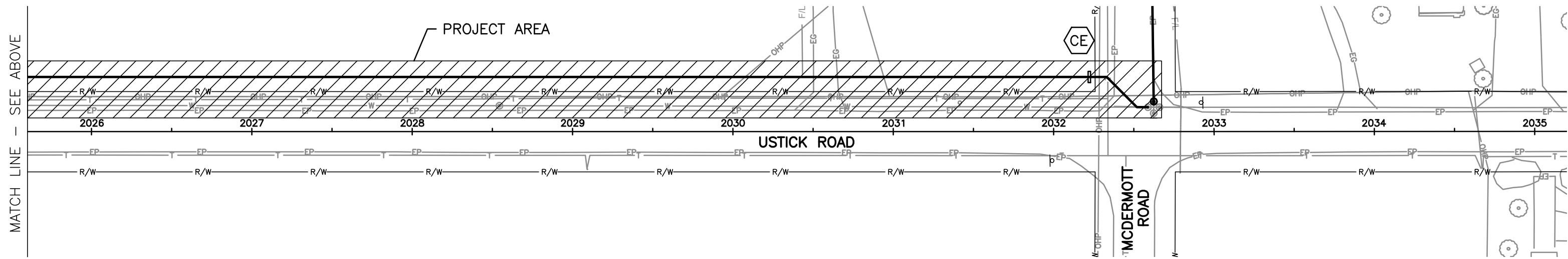
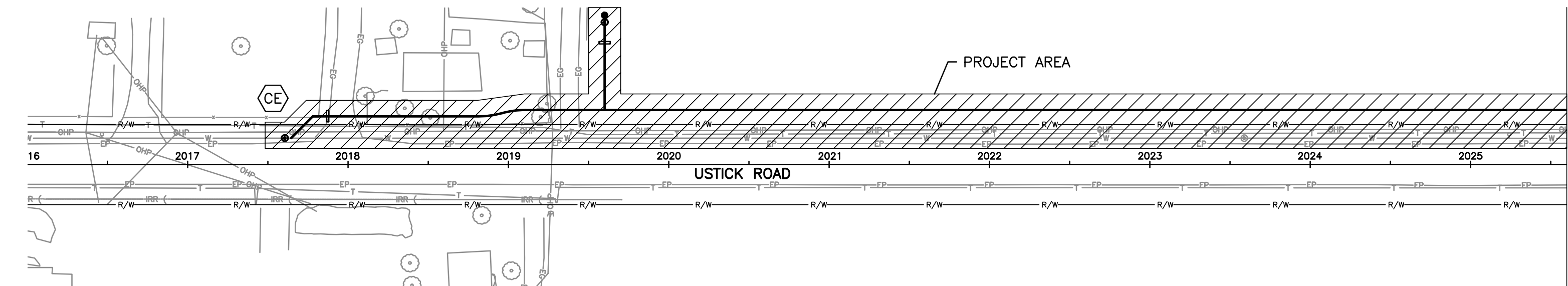
FINAL SITE STABILIZATION WILL INCLUDE SURFACE RESTORATION OF PAVED AND GRAVEL AREAS DISTURBED DURING CONSTRUCTION. TEMPORARY BMPs WILL BE REMOVED WHEN SURFACE RESTORATION IS COMPLETE, THE WORK AREA HAS BEEN CLEANED, AND ALL EQUIPMENT AND MATERIALS HAVE BEEN REMOVED FROM SITE.

EROSION AND SEDIMENT CONTROL PLAN

CITY OF MERIDIAN

FUTURE STATE HIGHWAY 16

WATER MAIN IMPROVEMENTS



NOTES

- CE CONSTRUCTION ENTRANCE
- SW STRAW WATTLE

PLAN DESIGNER

CIVIL SURVEY CONSULTANTS
JIM MONEY, P.E.
CERTIFICATION NUMBER: CON02-00899

RESPONSIBLE PERSON

TO BE PROVIDED BY CONTRACTOR FOLLOWING PUBLIC BIDDING OF PROJECT.



PROJECT NO.	21027	DESIGNED	CJP	DRAWN	CJP	CHECKED	CJP	APPROVED	CJP
DATE									
REVISIONS	ITEM								
NO.									

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CITY OF MERIDIAN

FUTURE STATE HIGHWAY 16

WATER MAIN IMPROVEMENTS

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JOB NO: 21027

SHEET 7 OF 7

EXHIBIT "B"

To Actual Cost Utility Agreement

Cover Sheet for the Estimated Relocation Cost

City of Meridian
Future State Highway 16
Water Main Improvements
City Project No. 11089
Construction Cost Estimate - Cost Sharing Portion
October 8, 2021

Item No.	Item Description	Estimated Quantity	Unit	Unit Price	Item Total
205.4.1.B.1.	DEWATERING	1	LS	\$1,250.00	\$1,250.00
306.4.1.D.1.	IMPORTED TRENCH BACKFILL, TYPE A (PRE-APPROVAL REQUIRED)	200	TON	\$50.00	\$10,000.00
307.4.1.E.1.	TYPE C SURFACE RESTORATION	760	SY	\$15.00	\$11,400.00
310.4.1.A.1.	20"Ø, 3/8" THICK STEEL CASING PIPE	410	LF	\$420.00	\$172,200.00
401.4.1.A.1.d.	16" (IPS) HDPE, AWWA C906, PE4710, DR9, WATER MAIN	490	LF	\$110.00	\$53,900.00
1001.4.1.A.1.	SEDIMENT CONTROL	1	LS	\$1,250.00	\$1,250.00
1001.4.2.B.1.	STABILIZED CONSTRUCTION ENTRANCE	2	EA	\$2,000.00	\$4,000.00
1003.4.1.G.1.	STRAW WATTLE	450	LF	\$4.00	\$1,800.00
2010.4.1.A.1.	MOBILIZATION	1	LS	\$13,000.00	\$13,000.00
	Total				\$268,800.00

20% Contingency \$53,760.00
 Budget Total \$322,560.00