



FOR IMMEDIATE RELEASE
July 25, 2023

CONTACT: Nyal Nunn, Senior Project Engineer
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ADDENDUM #1

Timberlane Water Main Replacement 2023

Addendum #1 includes six (6) revised contract pages and three (3) revised plan sheets: TC, Ad-1, P-2, P-3, SP-1 and SP-2; Sheet 2, Sheet 4, and Sheet 5.

Please note: you must sign this addendum and include it with your proposal.

This addendum is intended to remove the trenchless work (Horizontal Directional Drilling) and associated service lines from this contract. Additionally, the hydrant extension at Grand River (M-43) and Cornell Road is also being removed from this contract.

The completion date for the open-cut work remains the same: **October 1, 2023.**

Date	_____	Company Name	_____
By	_____	Address	_____
	Signature		
	_____		_____
	Printed Name		
Title	_____	Phone Number	_____
		Email Address	_____

Addendum #1

The community of Meridian Township is in close proximity to the Michigan State Capitol and Michigan State University. The Township serves the community through exceptional services, beneficial amenities and an outstanding quality of life. It is a welcoming community that celebrates quality education, recreation and lifestyles.



TIMBERLANE WATER MAIN REPLACEMENT 2023

**FOR
CHARTER TOWNSHIP OF MERIDIAN**

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CHARTER TOWNSHIP OF MERIDIAN

TIMBERLANE WATER MAIN REPLACEMENT 2023

ADVERTISEMENT FOR BIDS

Sealed proposals will be received by the Charter Township of Meridian, Ingham County, Michigan, at the Meridian Township Clerk's Office, Municipal Building, 5151 Marsh Road, Okemos, Michigan, 48864-1198, Ph. 517.853.4000, up to 10:30 am, local time on Friday, July 28, 2023 for the replacement of 6-inch water mains in Meridian Township.

Bids are solicited on a unit price basis. The work involves the following major bid items:

- Installation of approximately 1,200 feet of eight (8) inch D.I. water main by open-cut methods;
- ~~Installation of approximately 1,400 feet of eight (8) inch D.I. water main by horizontal directional drilling;~~
- Including 13 gate valves (8"); and,
- Abandonment of approximately 3,600 feet of six (6) inch water main.

Work on the project may commence any time after the "Notice To Proceed" is issued. Open-cut construction shall be completed by October 1, 2023. ~~Trenchless construction shall be completed by June 1, 2024.~~ Completion is defined as being constructed, tested, placed in service, and the site restored.

Each proposal shall be accompanied by a certified check or a bid bond by a recognized surety company similar to a U.S. Government Standard form bid bond, in the amount of five percent (5%) of the bid, payable to the Charter Township of Meridian, Ingham County, Michigan as security for the acceptance of the Contract.

Insurance and bonds are required from the successful bidder for this project; please see pages G-2 and G-3 for those requirements. *Please note Owner/Contractors Protective Liability is required for all our contracts.*

The contract documents may be examined at the following locations:

- Meridian Charter Township, Dept of Public Works, 5151 Marsh Road, Okemos, MI 48864
- Builders Exchange of Lansing & Central MI, 1240 E. Saginaw St., Lansing, MI 48906-5522
- Builders Exchange of Michigan, 678 Front Ave. NW. Ste. 330, Grand Rapids, MI 49504
- Construction Assoc of MI, 43636 Woodward, Bloomfield Hills, MI 48302
- Dodge Data & Analytics, 2521 E. Michigan Avenue, Lansing, MI 48912-4010

To be added to the Township's list of prospective bidders, please make sure to contact the Engineering Office, as described below. PDF copies of the plans and contract documents may be downloaded from the Township here:

<https://www.meridian.mi.us/businesses/requests-for-proposals-bids>.

Hard copies of the contract documents for the work may be obtained from the Department of Public Works & Engineering at 5151 Marsh Road, Okemos, Michigan, for a non-refundable fee of ten dollars (\$10). There is a five dollar (\$5.00) fee for mailing contract documents. Contract documents may be obtained via email free of charge. Questions regarding this contract may be addressed to Meridian Township Department of Public Works & Engineering by phone at 517.853.4440, or by email at DPW@meridian.mi.us.

In submitting this bid, it is understood that the right is reserved by the Owner to reject any or all bids, to award the Contract to other than the low bidder, to award separate contracts for each project and/or phase, to waive irregularities and/or formalities, and in general, to make award in any manner deemed by it, in its sole discretion, to be in the best interest of the Owner.

The vendor's agreement to pay prevailing wage rates is one relevant consideration that Meridian Township may make in its determination of which bidder should receive this contract. Meridian Township may thus consider in awarding this contract whether any vendor voluntarily pays employees and sub-contractors, directly upon the site of work, at least the prevailing wages and fringe benefits as determined and published by the United States Department of Labor for the Ingham County area.

TIMBERLANE WATER MAIN REPLACEMENT 2023

PROPOSAL

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT PRICE</u>	<u>AMOUNT</u>
<u>GENERAL</u>					
1a.	Traffic Control	1	LSum	\$ _____	\$ _____
1b.	Mobilization	1	LSum	\$ _____	\$ _____
<u>TIMBERLANE STREET</u>					
6a.	Water, Main, 6 inch, Abandon, Timberlane	1	LSum	\$ _____	\$ _____
30a.	Water, Main, 8 inch, Open Cut	360	Ft	\$ _____	\$ _____
30b.	Water, Main, 8 inch, HDD	300	Ft	\$ _____	\$ _____
31b.	Water, Bend, 45°	12	Ea	\$ _____	\$ _____
31c.	Water, Bend, 22°	3	Ea	\$ _____	\$ _____
31d.	Water, Bend, 11°	2	Ea	\$ _____	\$ _____
31e.	Water, Union, 8 inch	6	Ea	\$ _____	\$ _____
31f.	Water, Red, 8 inch by 6 inch	3	Ea	\$ _____	\$ _____
31g.	Water, Tee, 8 inch	2	Ea	\$ _____	\$ _____
31h.	Water, Tee, 8 inch by 6 inch	2	Ea	\$ _____	\$ _____
32.	Water, Gate Valve, 8 inch	6	Ea	\$ _____	\$ _____
33.	Water, Hydrant Assembly	2	Ea	\$ _____	\$ _____
35a.	Water, Serv, 1 inch, Short	1	Ea	\$ _____	\$ _____
35b.	Water, Serv, 1 inch, Long	2	Ea	\$ _____	\$ _____
53.	Erosion Control, Inlet Protection, Fabric Drop	7	Ea	\$ _____	\$ _____
54a.	Site Restoration, Timberlane	1	LS	\$ _____	\$ _____

BLUE HAVEN DRIVE

6b.	Water, Main, 6 inch, Abandon, Blue Haven	1	LSum	\$ _____	\$ _____
30a.	Water, Main, 8 inch, Open Cut	840	Ft	\$ _____	\$ _____
30b.	Water, Main, 8 inch, HDD	1,120	Ft	\$ _____	\$ _____
31a.	Water, Bend, 90°	2	Ea	\$ _____	\$ _____
31b.	Water, Bend, 45°	28	Ea	\$ _____	\$ _____
31e.	Water, Union, 8 inch	11	Ea	\$ _____	\$ _____
31f.	Water, Red, 8 inch by 6 inch	10	Ea	\$ _____	\$ _____
31g.	Water, Tee, 8 inch	5	Ea	\$ _____	\$ _____
31h.	Water, Tee, 8 inch by 6 inch	2	Ea	\$ _____	\$ _____
32.	Water, Gate Valve, 8 inch	7	Ea	\$ _____	\$ _____
33.	Water, Hydrant Assembly	3	Ea	\$ _____	\$ _____
35a.	Water, Serv, 1 inch, Short	2	Ea	\$ _____	\$ _____
35b.	Water, Serv, 1 inch, Long	4	Ea	\$ _____	\$ _____
35c.	Water, Serv, 1 inch, Reconnect	7	Ea	\$ _____	\$ _____
53.	Erosion Control, Inlet Protection, Fabric Drop	7	Ea	\$ _____	\$ _____
54b.	Site Restoration, Blue Haven	1	LS	\$ _____	\$ _____

CORNELL & GRAND RIVER

30c.	Water, Main, 12 inch, Open Cut	20	Ft	\$ _____	\$ _____
31i.	Water, Bend, 45°, 12 inch	1	Ea	\$ _____	\$ _____
31j.	Water, Red, 12 inch by 6 inch	1	Ea	\$ _____	\$ _____
33.	Water, Hydrant Assembly	1	Ea	\$ _____	\$ _____
34.	Hydrant Extension	1	LSum	\$ _____	\$ _____
53.	Erosion Control, Inlet Protection, Fabric Drop	2	Ea	\$ _____	\$ _____

TOTAL: \$ _____

TIMBERLANE WATER MAIN REPLACEMENT 2023

SPECIAL PROVISIONS

These Special Provisions are in addition to those in the General and Technical Specifications, and supersede the General and Technical Specifications in the event of a conflict.

GENERAL

NOTICES – The Contractor shall notify adjacent homeowners to mark private utilities seven (7) days prior to work in front of the property. If access to a resident’s drive is to be impeded, as much notice as possible is to be given to the resident, with a minimum of 24-hour notice being provided. The Township will supply the Contractor with the appropriate door-hanger forms.

TESTING – The Contractor will be responsible for scheduling concrete and compaction testing. Testing will be done by Soil and Materials Engineers, Inc. (SME), (517) 887-9181. The cost will be paid by Meridian Township, except for any wait time. Concrete testing will be required for the first load of the job, and thereafter only at the direction of the Engineer. Compaction testing will be required for all backfill within the road zone-of-influence.

PROPERTY IRONS – A licensed surveyor shall reestablish property irons in the proper location, if disturbed. Buried property irons shall be extended using ½" diameter rods. The Contractor shall pay for reestablishment.

ROAD RIGHT-OF-WAY – All work in the public right-of-way (ROW) is done under permit and approval of the Ingham County Road Department (ICRD) and MDOT, as appropriate. The Contractor shall secure the ICRD ROW permit(s). Meridian Township will secure any necessary MDOT permit(s).

PAVEMENT REMOVAL – Any necessary pavement removal is incidental. Sawcut all pavement prior to removal, including concrete and asphalt. Restore the surface with compacted gravel as a temporary surface. Concrete and asphalt replacement will be performed separately.

SHORING – Any shoring necessary for water main installation, or to protect existing utilities, structures, or other property is incidental.

SITE CLEANUP – At the end of each day the work site shall be rough graded. In the event that it is necessary to leave a point of excavation open overnight, the area shall be safely barricaded. At the end of each week, or as deemed necessary by the Township, the street surface shall be wetted and swept clean of all construction debris.

JOINT RESTRAINT – All mechanical fittings shall be restrained using MEGALUG® style restraints or approved equal.

SALVAGE – The Township reserves the right to salvage any old gate valves or hydrants in part, or in whole.

TREE REMOVAL – Tree removal will be performed by others.

COMPLETION DATES – The Timberlane subdivision streets are scheduled to be resurfaced in October of 2023. As such, all of the open-cut work shall be completed by **October 1, 2023**. ~~All of the trenchless work shall be completed by **June 1, 2024**.~~

PAY ITEMS

1a. TRAFFIC CONTROL - This pay item includes all labor, equipment, and material necessary to provide and maintain traffic control as described herein, in accordance with the Michigan Manual of Uniform Traffic Control Devices, and ICRD and MDOT permit requirements.

All necessary traffic control devices are included. All barrels remaining in the road overnight must be lighted. Generally, Typical Application 6, *Shoulder Work with Minor Encroachment* will be necessary (Appendix A).

TRAFFIC CONTROL shall be paid for at the Contract Unit Price on the following basis: after first use of traffic control measures 25% of **Traffic Control** will be paid; once 50% of the original contract price is completed 50% of **Traffic Control** will be paid; once 75% of the original contract price is completed 75% of **Traffic Control** will be paid; once the contract work is complete 100% of **Traffic Control** will be paid.

1b. MOBILIZATION - This pay item includes all necessary preparatory work and operations in accordance with the MDOT Standard Specifications for Construction (SSC), Section 110.

6a,b. WATER, MAIN, 6 INCH, ABANDON, _____ - These pay items include all labor, equipment, and material necessary to completely remove from service and fill the existing water main with flowable fill, and to remove the existing gate valves and hydrants. The flowable fill shall be pre-approved for use by the Township. Bleeder lines shall be installed on all sections of main to be abandoned to ensure the complete and proper filling of the main.

30a-c. WATER, MAIN, __ INCH, ... - For these pay items, see the Water Main Installation Specifications (page WM-1 of the contract). **The encasement shall be V-Bio® Enhanced Polyethylene Encasement installed per the manufacturer's instructions.**

~~For Horizontal Directional Drilling specifications, see pages HDD-1 through HDD-6 of the contract.~~

31a-j. FITTINGS - These pay items include all labor, equipment, and material necessary to install the specified fittings as shown on the plans and as described in the Technical Specifications. Thrust blocks, joint restraints, and polyethylene encasement are incidental to this pay item.

32. WATER, GATE VALVE, 8 INCH - This pay item includes all labor, equipment, and material necessary to install an EJIW FlowMaster® series gate valve with an EJIW screw-type valve box.

33. WATER, HYDRANT ASSEMBLY - This pay item includes all labor, equipment, and material necessary to install a new EJIW fire hydrant as detailed in Division 3 of the Technical Specifications and as shown on the plans, including everything from the new water main to the hydrant, excluding the 8"x6" tee. This includes, but is not limited to, the 6" EJIW isolation gate valve, valve box, pipe, EJIW hydrant with STORZ nozzle, polyethylene encasement, thrust block, stone bedding, backfill, and, as necessary, ductile iron sleeves and bends.

~~**34. HYDRANT EXTENSION** - This pay item includes all labor, equipment, and material necessary to extend the dead end line for a replacement hydrant, as shown on the plans. This includes, but is not limited to all traffic controls, excavation, backfilling, pavement and curb removal and replacement, water main connection, and grass restoration. The hydrant, pipe, and fittings will be paid for separately.~~

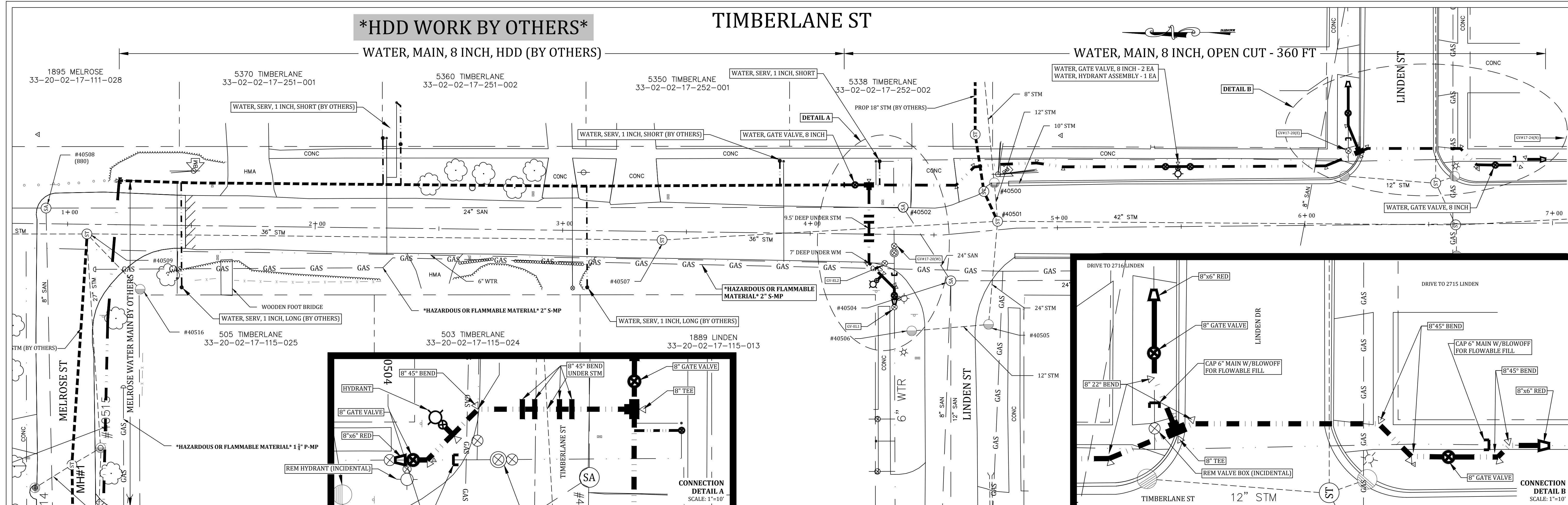
~~Traffic controls for this item are anticipated to include closing northbound traffic on Cornell, with a detour down Hatch Road to Dobie Road. Traffic control shall be in accordance with ICRD standards, and under ICRD permit.~~

HDD WORK BY OTHERS

TIMBERLANE ST

WATER, MAIN, 8 INCH, HDD (BY OTHERS)

WATER, MAIN, 8 INCH, OPEN CUT - 360 FT



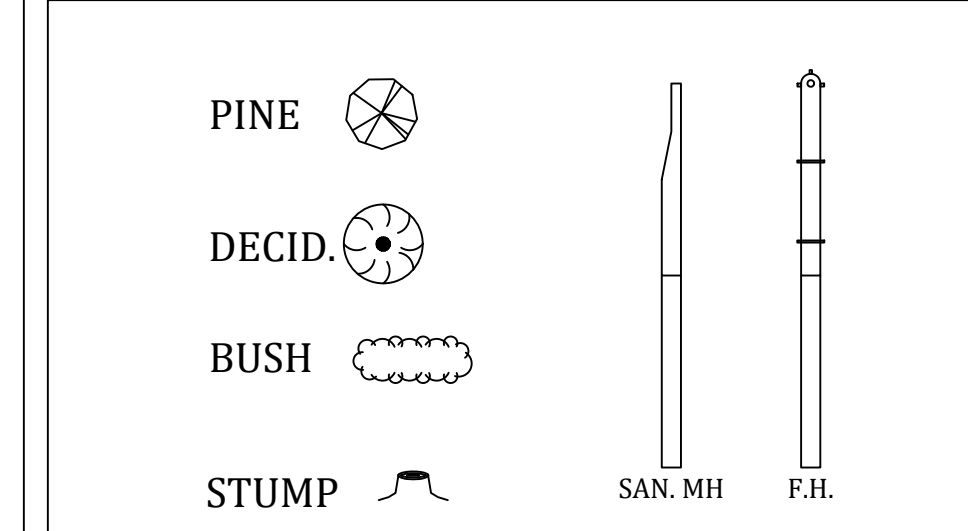
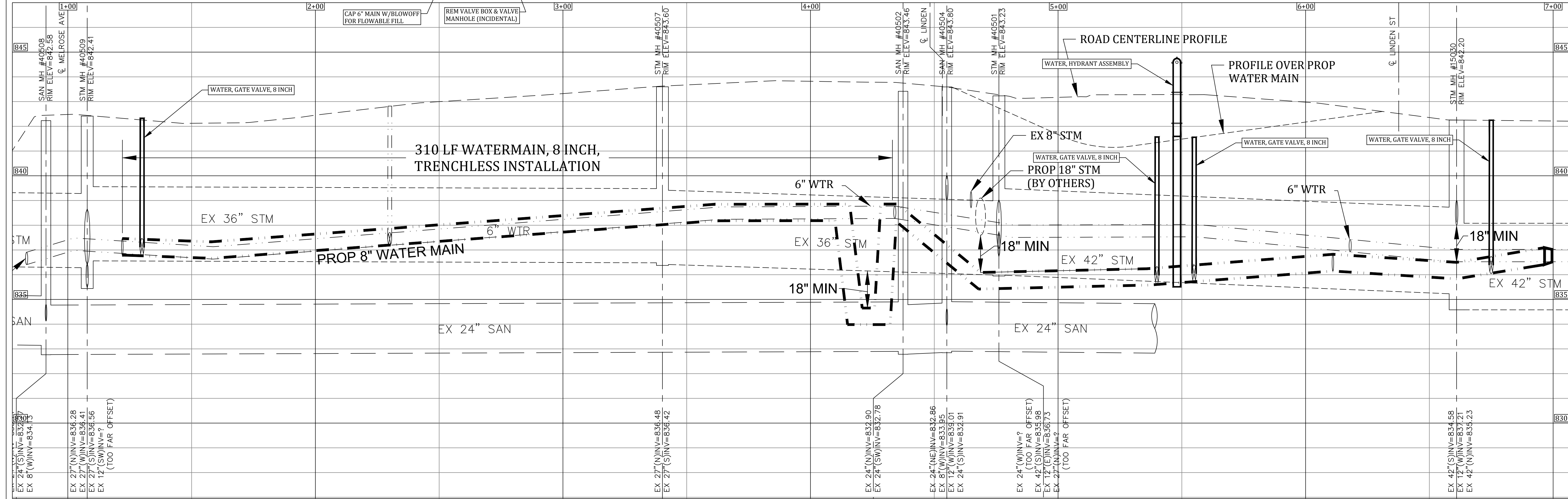
- SUGGESTED PROCEDURE:**
- Close GV-EL1, EL2, 17-20(W) & (E), 17-21, and 17-23(N).
 - Cut in at the NE corner of Linden (S).
 - Cap ex. 6" toward valve.
 - Connect 8"x6" reducer and build new 8" main to new 8" valve.
 - Turn on 17-21 and 17-23(N).
 - Build new 8" main from tee at 4+25 to new valve at 6+75.
 - Build new 8" main across Timberlane.
 - Cut and connect new 8" valve and 8"x6" reducer to the back side of ex. 6" valve (GV-EL1).
 - Pressure and bacteria test new main.
 - Bring new main live.
 - Cut 5338 Timberlane service to new main.
 - Close 17-24(N).
 - Cut in at 7+00.
 - Cap ex. 6" to north.
 - Connect 8"x6" reducer to new 8" main and existing 6" main.
 - Open 17-24(N).
 - Install new 8" main by HDD from Sta. 1+00 to 4+00.
 - Pressure and bacteria test new main.
 - Connect new mains at 4+00.
 - Bring new main live.
 - Connect services to new main.

PAY ITEMS & QTS (THIS SHEET):

6a. Water, Main, 6 inch, Abandon	- 1	Ls
Timberlane	- 1	Ls
30a. Water, Main, 8 inch, Open Cut - 360 Ft	- 300	Ft
30b. Water, Main, 8 inch, HDD	- 300	Ft
31b. Water, Bend, 45°	- 12	Ea
31c. Water, Bend, 22°	- 3	Ea
31d. Water, Bend, 11°	- 2	Ea
31e. Water, Union, 8 inch	- 6	Ea
31f. Water, Red, 8 inch by 6 inch	- 3	Ea
31g. Water, Tee, 8 inch	- 2	Ea
31h. Water, Tee, 8 inch by 6 inch	- 2	Ea
32. Water, Gate Valve, 8 inch	- 6	Ea
33. Water, Hydrant Assembly	- 2	Ea
35a. Water, Serv., 1 inch, Short	- 4	Ea
35b. Water, Serv., 1 inch, Long	- 2	Ea

REVISED PAY ITEMS & QTS (THIS SHEET):

35a. Water, Serv., 1 inch, Short	- 1	Ea
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CATV BOX	CATV MH	CATV (COMCAST)	C/L OF ROADS	EX SAN MAIN	LESS BOLD
U.P. (W/GUY)	LIGHT	ELEC (CONSUMERS)	PROPOSED STM	EX STM (ICDC)	LESS BOLD
TELE. MH	MAILBOX	GAS (CONSUMERS)	PROPOSED SAN	EX WTR MAIN	LESS BOLD
STREET SIGN	SITE BORING	TELE. (SBC)	PROPERTY LINE	PROPOSED SAN	BOLD
SIGN	P.I.	PROPERTY LINE	ROW (ICRD, MDOT)	PROPOSED WTR	BOLD
SAN. MH	C.M.P.	EXISTING 5' / 7' SIDEWALK / PATHWAY			
STM. MH	C.B.				
TELE. BOX	G.V.				
WTR. MH	F.H.				

CATV (COMCAST)	C/L OF ROADS	EX SAN MAIN	LESS BOLD
ELEC (CONSUMERS)	PROPOSED STM	EX STM (ICDC)	LESS BOLD
GAS (CONSUMERS)	PROPOSED SAN	EX WTR MAIN	LESS BOLD
TELE. (SBC)	PROPERTY LINE	PROPOSED SAN	BOLD
PROPERTY LINE	ROW (ICRD, MDOT)	PROPOSED WTR	BOLD

0' 20' 40' 80'

Call 811 before you dig.

WOLVERINE PIPE LINE COMPANY 219-844-9510

Meridian Charter Township
Ingham County, Michigan
Water Main System

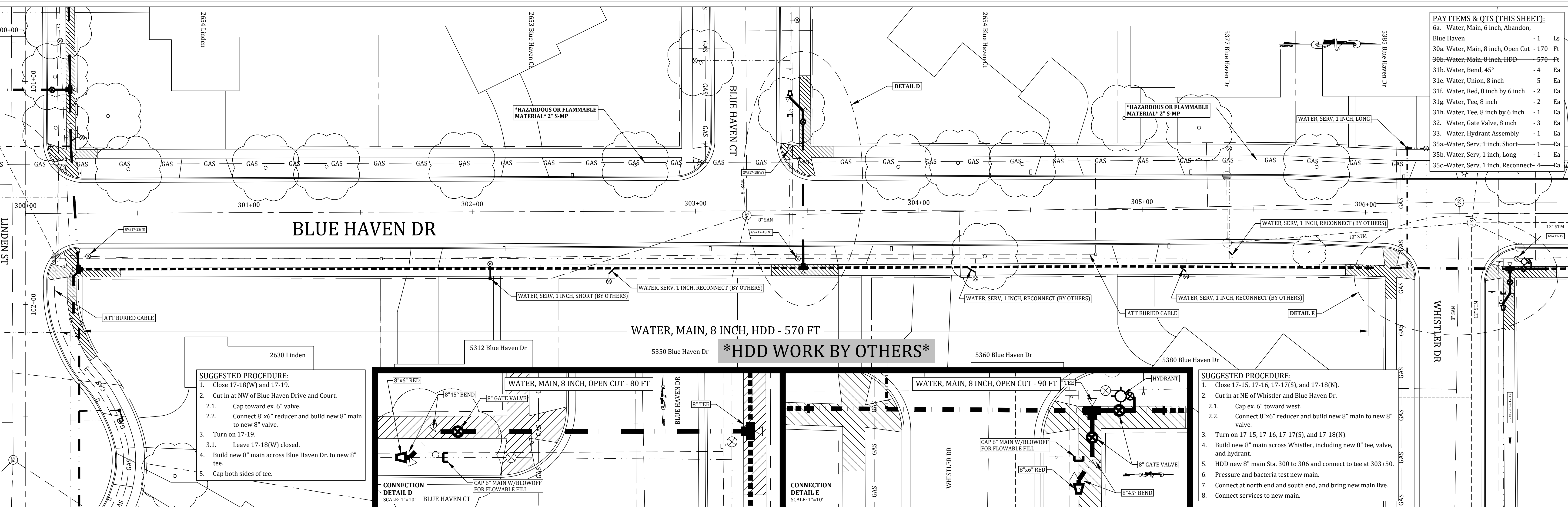
TIMBERLANE STREET
MELROSE TO LINDEN (S)
CoEL INTERCONNECT

REVISIONS:	DATE:	BY:	COMMENTS:
	7/3/23	NN	Contract Plans
	7/25/23	NN	Addendum #1
SCALE:	1" = 20' HOR	PAGE:	2 OF 7
	1" = 2' VERT	FILE:	

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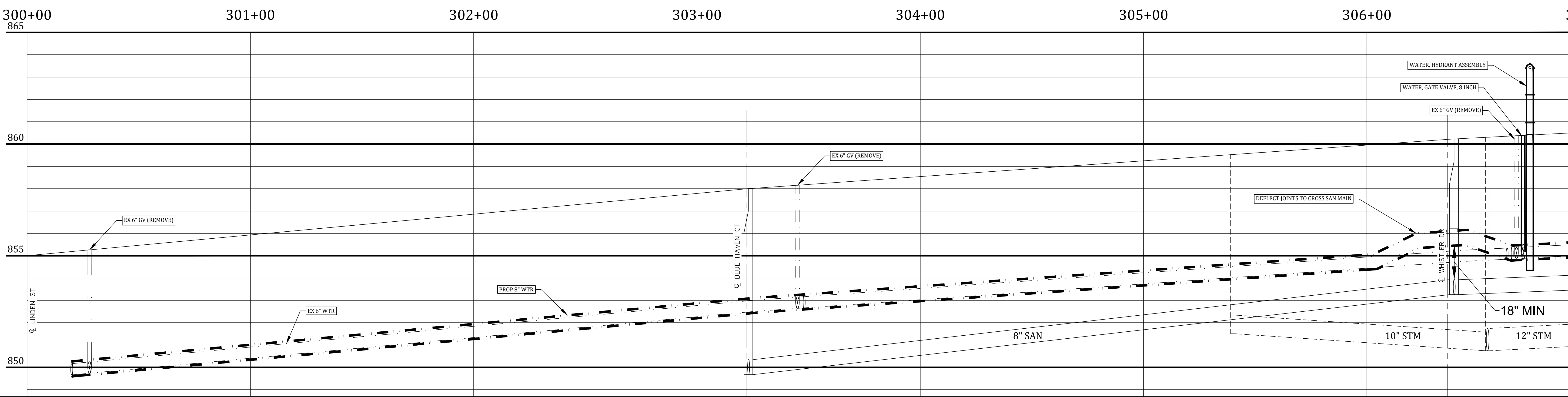
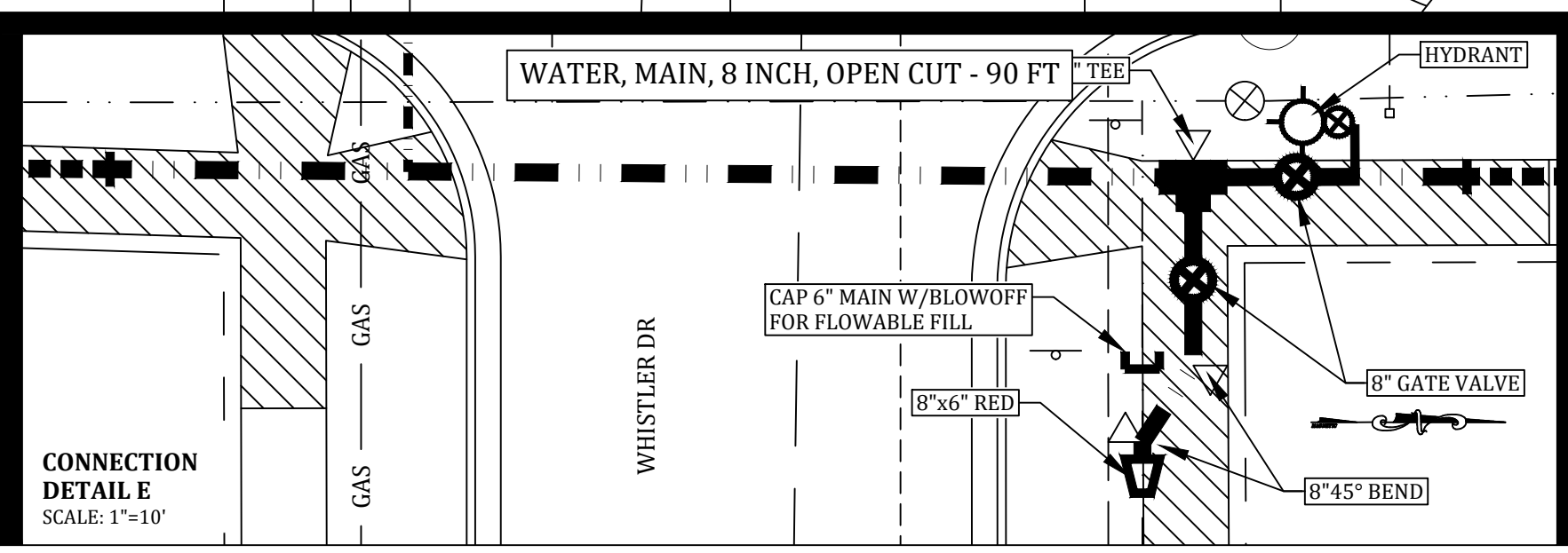
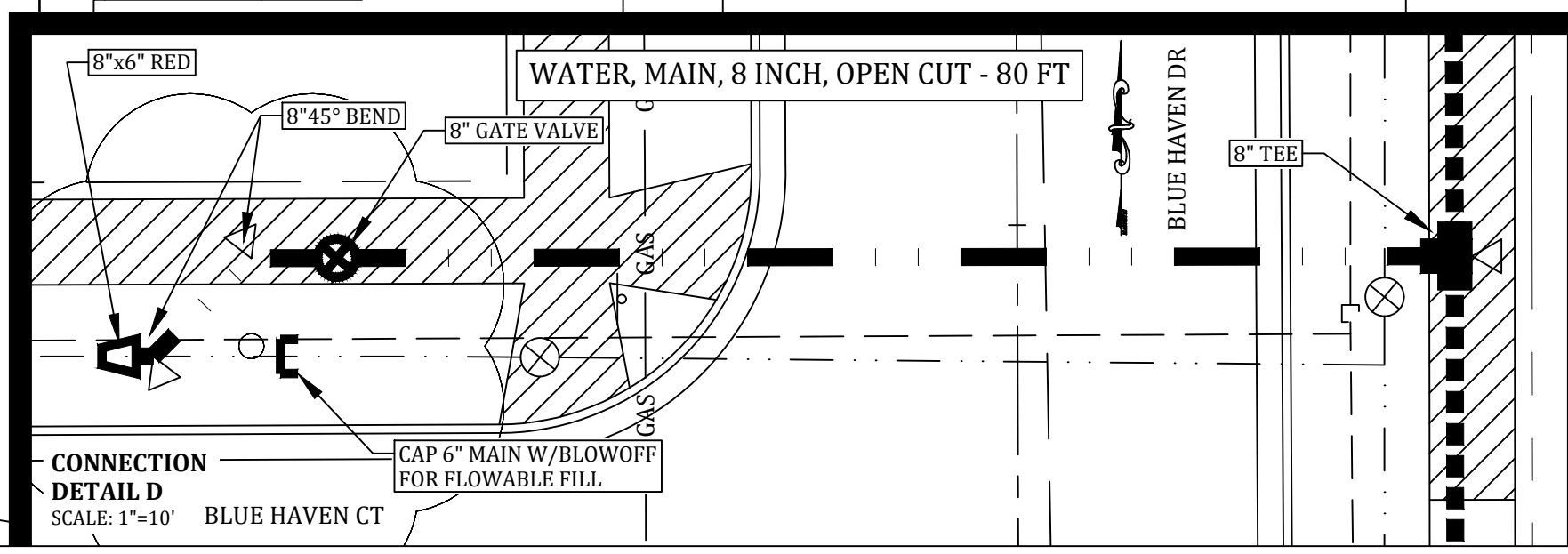
PAY ITEMS & QTS (THIS SHEET):

6a. Water, Main, 6 inch, Abandon, Blue Haven	- 1	LS
30a. Water, Main, 8 inch, Open Cut - 170 Ft	- 170	Ft
30b. Water, Main, 8 inch, HDD - 570 Ft	- 570	Ft
31b. Water, Bend, 45°	- 4	Ea
31e. Water, Union, 8 inch	- 5	Ea
31f. Water, Red, 8 inch by 6 inch	- 2	Ea
31g. Water, Tee, 8 inch	- 2	Ea
31h. Water, Tee, 8 inch by 6 inch	- 1	Ea
32. Water, Gate Valve, 8 inch	- 3	Ea
33. Water, Hydrant Assembly	- 1	Ea
35a. Water, Serv, 1 inch, Short	- 1	Ea
35b. Water, Serv, 1 inch, Long	- 1	Ea
35c. Water, Serv, 1 inch, Reconnect	- 4	Ea



- SUGGESTED PROCEDURE:**
1. Close 17-18(W) and 17-19.
 2. Cut in at NW of Blue Haven Drive and Court.
 - 2.1. Cap toward ex. 6" valve.
 - 2.2. Connect 8"x6" reducer and build new 8" main to new 8" valve.
 3. Turn on 17-19.
 - 3.1. Leave 17-18(W) closed.
 4. Build new 8" main across Blue Haven Dr. to new 8" tee.
 5. Cap both sides of tee.

- SUGGESTED PROCEDURE:**
1. Close 17-15, 17-16, 17-17(S), and 17-18(N).
 2. Cut in at NE of Whistler and Blue Haven Dr.
 - 2.1. Cap ex. 6" toward west.
 - 2.2. Connect 8"x6" reducer and build new 8" main to new 8" valve.
 3. Turn on 17-15, 17-16, 17-17(S), and 17-18(N).
 4. Build new 8" main across Whistler, including new 8" tee, valve, and hydrant.
 5. HDD new 8" main Sta. 300 to 306 and connect to tee at 303+50.
 6. Pressure and bacteria test new main.
 7. Connect at north end and south end, and bring new main live.
 8. Connect services to new main.



PINE	⊗	CATV BOX	□	CATV MH	⊙	CATV (COMCAST)	—	EX SAN MAIN	—	LESS BOLD
DECID.	⊗	U.P. (W/GUY)	—	LIGHT	☆	C/L OF ROADS	—	EX STM (ICDC)	—	LESS BOLD
BUSH	⊗	TELE. MH	⊙	MAILBOX	□	ELEC (CONSUMERS)	—	EX WTR MAIN	—	LESS BOLD
STUMP	⊗	STREET SIGN	⊗	SITE BORING	⊕	GAS (CONSUMERS)	—	PROPOSED SAN	—	BOLD
		SIGN	⊗	P.I.	⊙	TELE. (SBC)	—	PROPOSED STM	—	BOLD
		SAN. MH	⊙	C.M.P.	—	PROPERTY LINE	—	PROPOSED WTR	—	BOLD
		STM. MH	⊙	C.B.	⊕	ROW (ICRD, MDOT)	—			
		TELE. BOX	□	G.V.	⊗					
		WTR. MH	⊙	F.H.	⊙					

Call 811 before you dig.

 WOLVERINE PIPE LINE COMPANY 219-844-9510

Meridian Charter Township
 Ingham County, Michigan
Water Main System

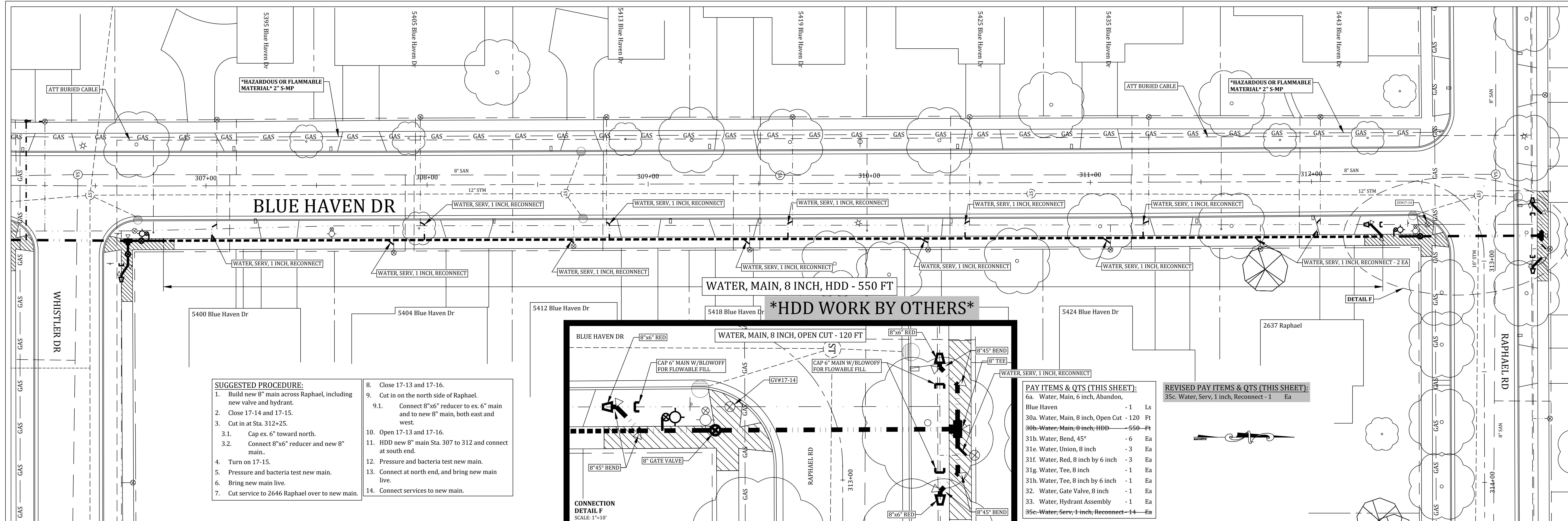
BLUE HAVEN DRIVE
 LINDEN ST TO WHISTLER DR

REVISIONS:		DATE:	BY:	COMMENTS:
		7/3/23	NN	Contract Plans
		7/25/23	NN	Addendum #1

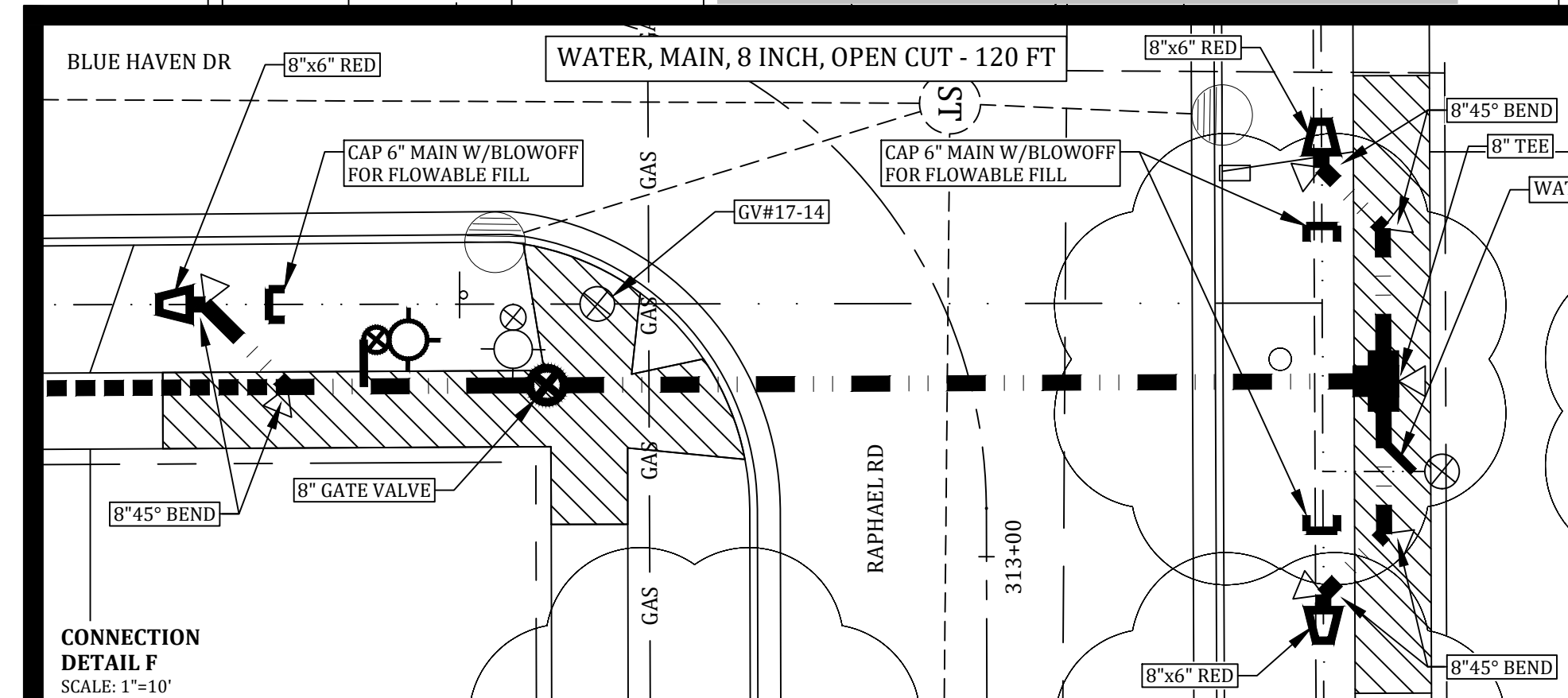
SCALE: 1" = 20' HOR
 1" = 2' VERT

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PAGE: 4 OF 7 FILE:



- SUGGESTED PROCEDURE:**
- Build new 8" main across Raphael, including new valve and hydrant.
 - Close 17-14 and 17-15.
 - Cut in at Sta. 312+25.
 - Cap ex. 6" toward north.
 - Connect 8"x6" reducer and new 8" main.
 - Turn on 17-15.
 - Pressure and bacteria test new main.
 - Bring new main live.
 - Cut service to 2646 Raphael over to new main.
 - Close 17-13 and 17-16.
 - Cut in on the north side of Raphael.
 - Connect 8"x6" reducer to ex. 6" main and to new 8" main, both east and west.
 - Open 17-13 and 17-16.
 - HDD new 8" main Sta. 307 to 312 and connect at south end.
 - Pressure and bacteria test new main.
 - Connect at north end, and bring new main live.
 - Connect services to new main.

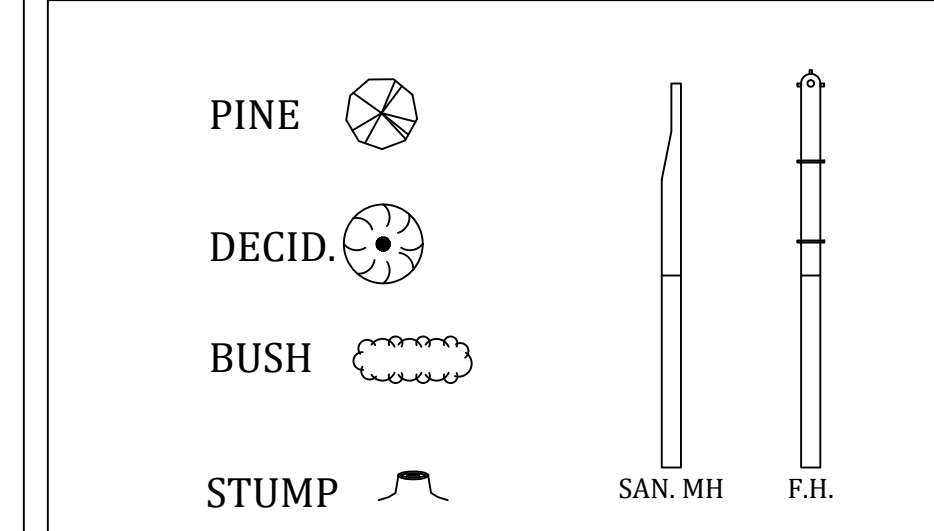
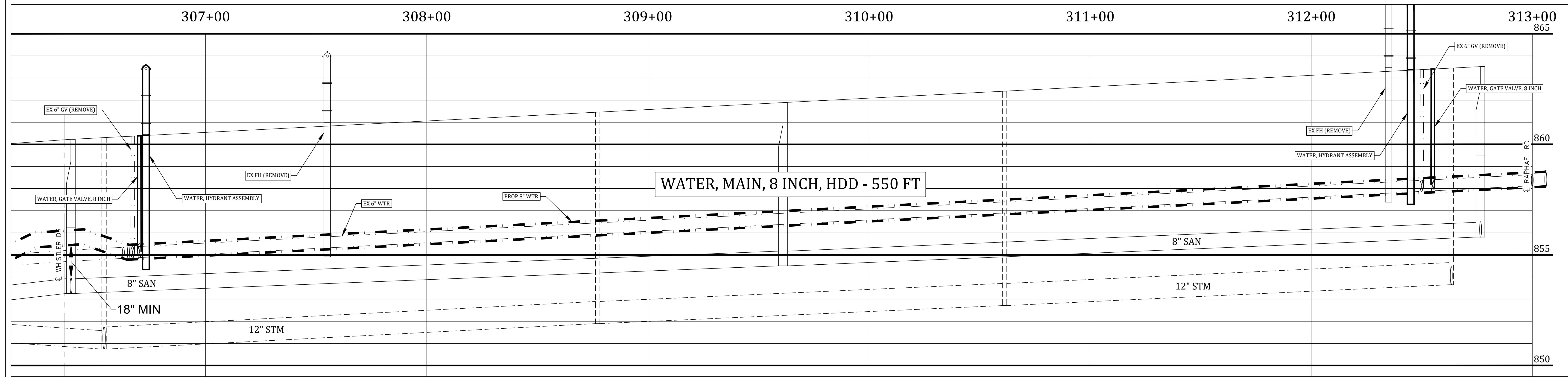


PAY ITEMS & QTS (THIS SHEET):

6a. Water, Main, 6 inch, Abandon, Blue Haven	- 1	Ls
30a. Water, Main, 8 inch, Open Cut - 120 Ft		
30b. Water, Main, 8 inch, HDD - 550 Ft		
31b. Water, Bend, 45°	- 6	Ea
31e. Water, Union, 8 inch	- 3	Ea
31f. Water, Red, 8 inch by 6 inch	- 3	Ea
31g. Water, Tee, 8 inch	- 1	Ea
31h. Water, Tee, 8 inch by 6 inch	- 1	Ea
32. Water, Gate Valve, 8 inch	- 1	Ea
33. Water, Hydrant Assembly	- 1	Ea
35c. Water, Serv, 1 inch, Reconnect - 14	- 14	Ea

REVISED PAY ITEMS & QTS (THIS SHEET):

35c. Water, Serv, 1 inch, Reconnect - 1	- 1	Ea
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CATV BOX	□
U.P. (W/GUY)	—
TELE. MH	○
STREET SIGN	⊕
SIGN	⊕
SAN. MH	⊙
STM. MH	⊙
TELE. BOX	□
WTR. MH	⊙
CATV MH	⊙
LIGHT	☆
MAILBOX	□
SITE BORING	⊕
P.I.	○
C.M.P.	—
C.B.	⊕
G.V.	⊙
F.H.	⊙
CATV (COMCAST)	—
C/L OF ROADS	—
ELEC (CONSUMERS)	—
GAS (CONSUMERS)	—
TELE. (SBC)	—
PROPERTY LINE	—
ROW (ICRD, MDOT)	—
EXISTING 5' / 7' SIDEWALK / PATHWAY	—

EX SAN MAIN	—	LESS BOLD
EX STM (ICDC)	—	LESS BOLD
EX WTR MAIN	—	LESS BOLD
PROPOSED SAN	—	BOLD
PROPOSED STM	—	BOLD
PROPOSED WTR	—	BOLD
PROPOSED 5' / 7' SIDEWALK / PATHWAY	—	

0' 20' 40' 80'

Call 811 before you dig.

WOLVERINE PIPE LINE COMPANY 219-844-9510

Meridian Charter Township
Ingham County, Michigan
Water Main System

BLUE HAVEN DRIVE
WHISTLER DR TO RAPHAEL RD

REVISIONS:
DATE: 7/3/23 BY: NN COMMENTS: Contract Plans
7/25/23 NN Addendum #1

SCALE: 1" = 20' HOR 1" = 2' VERT
PAGE: 5 OF 7 FILE:

DRAWN BY: NN 06/09/23 CHECKED BY: YI 07/05/23