

ADDENDUM NO.1

Ayer West Main Street Infrastructure Project, No. 21DPW11  
Ayer DPW

This addendum amends and/or supplements the bid documents as indicated below. Only these items alter the Bid Documents; any verbal discussions or responses are hereby declared null and void.

Sealed Bids for the General Contract will be received from General Contractors for the Ayer West Main Street Infrastructure Project at the Ayer DPW Office, 25 Brook Street, Ayer, MA 01432 until 2:00 PM on Thursday, September 23, 2021 and at that time and place bids will be publicly opened and read aloud.

**Bidder shall acknowledge receipt of this addendum on the Form for General Bid.**

Attachments:

- (Revised) Bid Form
- (Revised) Drawings C-3, C-4, C-4.2, C-8, C-9, C-12, C-13, C-14, C-18, C-20, and C-21, and Verbeck Gate Modifications (Cover Sheet, G-001, A-100, A-101, and A-102)
- Section 16110 - Raceways
- Devens Soil Management Policy

GENERAL

1. Section 01850 is the specification for Traffic Management. All references to Section 01550 (Traffic Management) in the bid documents are erroneous and shall refer to Section 01850 instead.
2. A Drop Inlet has been added to the Drawings and Specifications per this addendum. The Drop Inlet shall be precast 2'x2' Drop Inlet as manufactured by Scituate Concrete Products or approved equal.

SPECIFICATIONS

SECTION 16110 – RACEWAYS (ISSUED)

1. Insert new Section 16110 – Raceways, attached to this addendum, into the specifications.

REVISIONS TO TABLE OF CONTENTS (NOT REISSUED)

1. Add Division 16 after Division 10 SPECIALTIES as follows:

“16	ELECTRICAL	
	Raceways	16110”

REVISIONS TO DIVISION 0 - BIDDING AND CONTRACT REQUIREMENTS

1. SECTION 00300 FORM OF GENERAL BID (REISSUED) –

- A. Remove the Bid Form pages 1 through 13 and replace with the Bid Form pages 1 through 13 attached to this addendum.
- 2. SECTION 00800 SUPPLEMENTARY CONDITIONS (NOT REISSUED) –
  - A. Delete Paragraph SC-2.05.B. and replace with the following:

“The value of mobilization shall not exceed 3.0 percent of the contract price.”

REVISIONS TO DIVISION 1 – GENERAL REQUIREMENTS

- 1. SECTION 01270 MEASUREMENT AND PAYMENT (NOT REISSUED) –
  - A. Paragraph 1.9, Item No. 2a, delete in its entirety and replace with the following:

“Item No. 2a - Common Borrow to Replace Unsuitable Material

- A. Method of Measurement: Payment for bid item No. 2a will be for soil excavation of unsuitable material and replacement with suitable common borrow below grade accepted for payment shall be the actual number of cubic yards of common borrow installed and accepted complete in place.
- B. Basis of Payment: The Contract unit price per cubic yard for excavation of unsuitable material and replacement with common borrow shall be full compensation for labor, materials, tools and equipment necessary to complete this work including excavation and disposal of unsuitable materials including clay, muck, crib work, trees, stumps and all other buried refuse, replacement with common borrow, compaction, dewatering and all else incidental thereto for which payment is not provided under other items. The Contract unit price per cubic yard shall be as stated in the Bid Schedule
- C. Over excavation of Unsuitable material will not be paid for under this item, and will be covered under the Contractors Expense for replacement material.
- D. Material suitability for the application shall be determined by the Engineer. Suitability shall be based on the properties of the material, which does not include the moisture content. Failure to control moisture content to achieve compaction or subgrade preparation does not constitute unsuitable material.”

- B. Paragraph 1.9, Item No. 3a and 3b, delete in its entirety and replace with the following:

“Item No. 3a, 3b, and 3f Furnish and Install Catch Basins, Manholes, and Drop Inlets

- A. Method of Measurement: The quantity of new catch basins, manholes, and drop inlets to be paid for under Item No. 3a and 3b shall be the actual number furnished and installed.
- B. Basis of Payment: These items shall be paid for at the unit price per each stated in the Bid Schedule. Said unit price shall be full compensation for all fittings, labor, equipment, tools and other materials required for the installation of a new precast concrete catch basin/manhole/drop inlet, frame and grate/cover and connection to the existing outlet pipe; furnishing and installing sump, offset sumps, gutter inlets base, invert channels, steps, gaskets, sealants, connections and couplings; and all incidental work necessary to complete the precast concrete catch basin/manhole/drop inlet base as shown on the drawings and as specified

herein; for grouting the frame to the brick courses; for trench dewatering; for excavating and backfilling; for replacing or rebuilding shrubs, fences, lawns, trees, and other materials except other such items specifically included in the Bid Schedule; and for all other work and expenses incidental thereto.”

- C. Paragraph 1.9, Item No. 5b, B., insert “, calcium chloride for treating” after “...fine grading...”.
  - D. Paragraph 1.9, Item No. A3 Furnish and Install SiltPrison – Stormwater Treatment change the item No. to A4.
  - E. Paragraph 1.9, insert new Item No. A3 as the following:
    - “Item No. A3 – Furnish and Install Raceways In Place, All Depths
      - A. Method of Measurement: The quantity of raceways to be paid for under Item No. A3 shall be the actual length in feet as measured along the center line of the raceway installed. Raceways include all conduit within the run as specified or shown on the Drawings.
      - B. Basis of Payment: Raceways shall be paid for at the unit price per linear foot stated in the Bid Schedule. Said unit price shall be full compensation for constructing the raceway, complete in place, as indicated on the drawings and as specified, including furnishing and installing pipe and fittings, excavation, backfill, bedding, select material, clearing, grubbing, testing, removal and replacement of sidewalks, curbing, disposal of all excess materials, saw cutting, concrete encasement if required, and all work incidental thereto and not specifically included for payment under other. Police details will be coordinated by the Contractor but will be paid directly by the DPW.
      - C. All temporary items and labor necessary to properly protect work shall be covered under this item.”
  - F. Paragraph 1.9, Item No. 5g, A., delete “...18 inch...” and replaced with “...24 inch...”
  - G. Paragraph 1.9, Item Nos. 8a, 8b, and 8c, B., delete “Gravel subbase utilized for the reconstruction of existing and new sidewalks shall not be separately measured for payment but shall be considered incidental to the project.”
  - H. Paragraph 1.9, Item Nos. 8d, A., delete “...shall not exceed two...” and replace with “...shall not exceed three...”
2. SECTION 01850 TRAFFIC MANAGEMENT (NOT REISSUED) –
- A. Paragraph 1.9, D., delete in its entirety.

REVISIONS TO DIVISION 2 – SITE WORK

- 1. SECTION 02745 BITUMINOUS CONCRETE PAVING (NOT REISSUED) –
  - A. Paragraph 1.1, D.,3., delete “...2-inch...” and replace with “...2.5-inch...”

DRAWINGS (REISSUED C3, C4, C4.2, C8, C9, C12, C13, C14, C18, C20, and C21, and the Verbeck Gate Modifications (Cover Sheet, G-001, A-100, A-101, and A-102))

1. Replace the Verbeck Gate Modifications (Cover Sheet, G-001, A-100, A-101, and A-102) with the attached drawings dated August 30, 2021. Replace Drawings C3, C4, C4.2, C8, C9, C12, C13, C14, C18, C20, and C21 with the attached drawings.
  - A. The following changes include but are not limited to:
    - Revised Detail 7 on Sheet C3.
    - C4 – Added detail for SiltPrison accessory to catch basin.
    - Deleted callout on Sheet C8 “INSTALL 12”TAPING SLEEVE AND GATE VALVE” and replaced with “INSTALL 12”TAPPING SLEEVE AND GATE VALVE, CONTRACTOR TO CONDUCT TEST PITS TO LOCATE WATER MAIN”
    - Deleted callout on Sheet C9 “CONTRACTOR TO FIELD LOCATED AND FILL EXISTING IC VAULT WITH SAND AND ABANDON IN PLACE 12”A/C TO BE GROUTED IN FULL” and replaced with “CONTRACTOR TO FIELD LOCATE AND FILL EXISTING IC VAULT WITH SAND, CONTRACTOR SHALL CUT AND CAP EXISTING 12”AC WATER MAIN CONNECTING TO IC VAULT AT THE JOB CORP PROPERTY LINE”. Also showing the existing 12” AC water main toward Job Corps.
    - Add conduit (raceways) beneath sidewalks as an add alternate that could be used in future for ornamental street lighting. Shown on Sheet C3. The conduit is proposed beneath the proposed sidewalks from Station 36+50 to Station 43+00 (north and south side of road).
    - Reconfigured driveway layout of 179 West Main Street, see Sheet C12.
    - C14 - Reconfigured drainage and curbing near Station 29+50 on the north side of the road to include a drop inlet and install a catch basin near station 30+15. Added limit of paving south of Verbeck gate.
    - C4.2 - added Construction Note #55. Removed “...TO SHEET D-8 AND...” from Traffic Management Note #5.
    - C13, C20, and C21 - Removed limit of pavement trench patch around the proposed water main on Sculley Road

- C13 and C20 - Convert existing ADA ramps at intersection of Sculley into straight sections of walk with proper curb reveal. Bike lane reconfigured at intersection.

## QUESTIONS

1. **Which SiltPrison are you looking for? 160D, 160DP, 160R. can a detail be supplied in which to use ?**

Response: We are specifying SiltPrison 160D. Please see detail added to Sheet C4.

2. **Could a detail on the bus shelter be provided to show the footer with thickness and rebar if any to be used with rebar layout, and type of concrete to be used?**

Response: A cement concrete sidewalk with a 6-inch thickness shall be used in the area of the bus shelter. The concrete pad shall allow a minimum of 6-inches around the shelter perimeter to prevent concrete breakage when anchoring the shelter to the pad.

3. **On sheet C-3 detail 3/7 states untreated base and subbase, yet in the section 02503 indicates reclaim to be treated. Which is correct?**

Response: The reclaim is to be treated. Detail 7 has been revised to remove the word "Untreated".

4. **Item 7b remove and reset fence, the plans indicate PROPOSED RELOCATED/NEW CHAIN LINK FENCE is the existing chain link fence to be reused or is it to be new?**

Response: Fencing is to be reused. There are more areas where fence is being removed than relocated so it's anticipated there will not be a need for new fencing.

5. **For the bituminous walk detail sheet C-4, calls out for MHD M3.11.03 can not find this in the MassDot Specs for Highway and Bridges. An you supply a spec breakdown ?**

Response: MHD M3.11.03 is specified in the MHD 1995 Standard Specifications for Highways and Bridges, located here: <https://www.mass.gov/doc/1995-standard-specifications-for-highways-and-bridges-metric-edition/download>

6. **On the pilers or piers, could a detail be given on the footers size and rebar to be used? Also will there be a mesh on the blocks and ties to attach the bricks? If so can a detail be given?**

Response:

1. Use Hohman and Barnard Mesh Wall Tie (MWT or equal) at corners, every 4<sup>th</sup> course.
2. Use Hohman and 345 BT Adjustable tie (or equal) every 4th course, 2 ties per elevation.

3. The bottom of footing must be 4'-0" below grade as indicated on drawing A-102. The footing should be 3'-4" x 3'-4" x 4'-0" deep, #4 vertical rebar w/ #4 stirrups. The above grade portion of the footing (8") must match the profile of the existing footings, see photo attached.

**7. On Sculley road, is that to be milled from the West Main Street to the Cook Street? Or is that just a patch from the water installation ?**

Response: Sculley Road is to be mill and overlayed from West Main Street limit shown on C19 to the limit shown on C21. The water main patch has been removed from the Drawings.

**8. The bump outs at station 38+40 +/- and station 40+45 +/- , are they to be landscape on the sides of the wheel chair ramps or are they concrete? Can a spec be given for the ADA panels ?**

Response: Yes, they are to be landscaped on the sides of the wheelchair ramps. The ADA detectable panels are specified in Section 02775, 2.2.

**9. On sheet C-9 shows the Interconnection Vault And Appurtenances, it shows 12x8 tee's and 8" DI going into the vault, on sheet C-4.1 in the detail shows the 12" DI coming into the vault and reducing down to 8" in the vault. Which is correct ?**

Response: Sheet C9 is correct, showing the 8-inch reduction via the tee connection to the 12-inch water main.

**10. Page 01270-12 states Method of Measurement: The lump sum for this item shall constitute full compensation to the Contractor for the general mobilization necessary to make the contract operational, exclusive of the cost of materials. The total for mobilization shall not exceed two percent (3%) of the total of all bid items excluding this item. Page 00800-4 states it shall not exceed 2.5%. Which is it?**

Response: Mobilization shall not exceed (three) 3%. Sections 00800 and 01270 have been revised.

**11. Page 01850-3 discusses the use of PCMS-portable message signs and that they are incidental. Can a pay item be established paying per Unit Day for PCMS? This item will be impossible to determine not knowing what the town will really want in terms of how many and for how long. If a pay item can not be established, can the Town agree on a maximum number to be in use during the project?**

Response: The project will require two (2) sign boards for the duration of the project.

**12. Page 02503-3 states that all excavation work related to removing surplus material shall conform to Section 120 of the Standard Specifications. Page 01270-8 states it is incidental to Item 5. This leaves it open to interpretation if removal of excess is incidental to reclamation or will it be paid under Item 120.1-Unclassified Excavation. Please indicate/confirm how removal of excess will be paid.**

Response: Unclassified excavation has been removed as a pay item to eliminate confusion.

- 13. Page 01270-9 states that tack coat under the 5’/8’ Shared Use Path Pavement is incidental. The typical section only shows one lift of 2” Bituminous Concrete. Confirm it is one layer 2” thick and that tack coat is not required.**

Response: Tack coat is not required and there is one layer of 2-inch thick bituminous concrete is proposed.

- 14. Page 00830-7 states that payment for rock excavation shall be per Memo CG-14. Please provide this memo that is referenced. There are numerous references to the Massachusetts Bureau of Municipal Facilities Policy Memorandum (CG-1, CG-4, CG-9, CG-16, CG-14). Please provide these.**

Response: This specification was carried over from a previous project and has been revised to remove Section 00830 Part B 5 through 12.

- 15. Spec Page 01010-1 states “The Contractor should be aware that there may be asbestos-cement pipe for sections of the existing water main. The contractor shall comply with all state and federal requirements for handling, cutting and disposing of AC pipe.” Section 02112 details requirements for AC Pipe. This work is extremely costly and without knowledge of where this will be encountered, it is impossible to predict the costs involved. Typically, there are pay items for inspection and testing of AC suspected pipes by the each and then there is a pay item for removal and disposal of said pipe and it is paid for by the linear foot. Please consider adding these items or removing any AC pipe work if encountered from the project specs and treat it as a change order if it is encountered. This will keep all bidders bidding the same amounts of work.**

Response: Our records indicate there is cast iron water main throughout the project except water main from Devens connecting to the existing interconnection vault. Also, the new water main is being installed in a new trench which will avoid disturbing existing pipe.

- 16. Please provide the Devens Soil Management Policy.**

Response: This has been included as an Attachment to the Addendum.

- 17. Page 01270-2 states that flaggers are incidental and will not be paid for separately. A note on the plans as well as page 01270-6 and 01270-7 states Ayer will pay the police directly for traffic control work. Confirm that traffic control is expected to be done by police and that the police will not be considered flaggers and therefore, not eligible for payment by the town to the police.**

Response: Police are not considered flaggers.

- 18. Page 01270-3 references Myrick Street Drainage Improvements at the bottom of the page. Is Myrick St. drainage part of this project?**

Response: No, this is erroneous carryover from another project.

- 19. Regarding the 60" Culvert Replacement-is work such as erosion control, replacement of loam and seed, replacement of impacted HMA walks, etc. going to be paid under base bid items or will all work related to the 60" pipe be considered part of the 60" pipe item.**

Response: All work incidental to the 60-inch pipe replacement is paid under the bid item for the 60-inch pipe replacement.

- 20. Page 02519-2 states 12" crosswalks to be thermoplastic and paid by the Lineal Foot. The other types of striping is all paint. The bid item is Lump Sum. Please clarify.**

Response: 02519 has been revised, markings are to be lump sum.

- 21. Page 02519-2 also states High Friction Surface Treatment (yellow) to be in coordination with 6" white thermoplastic skip striping for crosswalks. Please provide a crosswalk striping detail as the detail on sheet C4 only shows a ladder type crosswalk with 12" wide white lines and no reference to yellow treatment or 6" white.**

Response: 02519 has been revised, ladder type crosswalk is to be marked as shown on the detail.

- 22. If this Siltprison alternate is accepted, will the contractor still be paid for the base bid Catch basins and we just put the upcharge in the alternate or, will the base bid catch basin item not be paid, and only the add alternate item paid.**

Response: The SiltPrison would be an added accessory to a catch basin installed under the base bid.

- 23. The sections A-A, B-B, C-C on sheet C3 all refer to "See bituminous pavement detail". When looking at the detail 7/C3, the pavement detail shows 4" min. untreated base and 8" min. untreated subbase. Reclaimed pavement borrow is not mentioned or shown on these cross sections. Please provide definitions for untreated base and untreated subbase. Is this reclaimed pavement borrow or dense graded or gravel borrow?**

Response: Paving notes have been added to the detail to indicate areas of reclaim.

- 24. Being that the pavement section is 6.5" thick and the finish grades of the existing road match the proposed grade of the roadway, this would lead to the need to cut out 6.5" of material. Is the contractor expected to remove the reclaim material, cut the subgrade underneath approx. 6.5", then replace the 12" of reclaim material?**

Response: Refer to Section 02503, 3.3. Base course elevation will be achieved during the reclaim process, followed by HMA binder and top.

- 25. Sheet C 21 shows an 8" Gate valve at Sta. 10+75 called out but is not drawn with a dark line at the valve itself-is this going to be installed? It's outside the cold plane and pave limits.**

Response: The valve installation callout is erroneous.



Bid Form  
 Ayer West Main Street Infrastructure Project  
 Ayer, MA

Item No.	Brief Description, Unit or Lump Sum Price (In Both Words and Figures)	Ayer West Main Street Infrastructure Project	
		Estimated Quantity	Total in Figures
<b>The base bid price of items 1 through 9, is:</b>			
		<i>Total Base Bid in Figures</i>	
		<i>Total Base Bid, Dollars and Cents (in Words)</i>	
<b>The add alternate bid price of items A1 through A4, is:</b>			
		<i>Total Add Alternate Bid in Figures</i>	
		<i>Total Add Alternate Bid, Dollars and Cents (in Words)</i>	
<b>1 - NON-STANDARD ITEMS</b>			
1a	Verbeck Gate Modifications, per lump sum		
		1	LS
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
<b>2 - EARTHWORK, GRADING, DEMOLITION, RODENT CONTROL, AND BORINGS</b>			
2a	Common Borrow to Replace Unsuitable, per cubic yards		
		50	CY
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
2b	Test Pit for Exploration, per cubic yards		
		25	CY
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
2c	Rock Excavation, per cubic yards		
		50	CY
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	

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Item No.	Brief Description, Unit or Lump Sum Price (In Both Words and Figures)	Ayer West Main Street Infrastructure Project	
		Estimated Quantity	Total in Figures
<b>3 - DRAINAGE</b>			
3a	Catch Basin, per each		
		12	EA
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
<i>Unit Price in Figures</i>		<i>Total Item Price in Figures</i>	
3b	Manhole - Municipal Standard, per each		
		6	EA
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
<i>Unit Price in Figures</i>		<i>Total Item Price in Figures</i>	
3c	12 Inch Corrugated Plastic Pipe, per linear foot		
		215	LF
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
<i>Unit Price in Figures</i>		<i>Total Item Price in Figures</i>	
3d	18 Inch Corrugated Plastic Pipe, per linear foot		
		530	LF
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
<i>Unit Price in Figures</i>		<i>Total Item Price in Figures</i>	
3e	24 Inch Corrugated Plastic Pipe, per linear foot		
		225	LF
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
<i>Unit Price in Figures</i>		<i>Total Item Price in Figures</i>	

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Item No.	Brief Description, Unit or Lump Sum Price (In Both Words and Figures)	Ayer West Main Street Infrastructure Project	
		Estimated Quantity	Total in Figures
3f	Drop Inlet, per each	1	EA
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
<b>4 - WATER SYSTEMS</b>			
4a	4 Inch Ductile Iron Water Pipe and Fittings, per linear foot	15	LF
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
4b	6 Inch Ductile Iron Water Pipe and Fittings, per linear foot	75	LF
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
4c	8 Inch Ductile Iron Water Pipe and Fittings, per linear foot	55	LF
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
4d	12 Inch Ductile Iron Water Pipe and Fittings, per linear foot	3560	LF
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	

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Item No.	Brief Description, Unit or Lump Sum Price (In Both Words and Figures)	Ayer West Main Street Infrastructure Project	
		Estimated Quantity	Total in Figures
4e	1 Inch Copper Tubing Type K, per linear foot		
		640	LF
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
4f	1.5 Inch Copper Tubing Type K, per linear foot		
		90	LF
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
4g	2 Inch Copper Tubing Type K, per linear foot		
		20	LF
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
4h	4 Inch Gate Valve and Box, per each		
		1	\$
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
4i	6 Inch Gate Valve and Box, per each		
		3	EA
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	

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Item No.	Brief Description, Unit or Lump Sum Price (In Both Words and Figures)	Ayer West Main Street Infrastructure Project	
		Estimated Quantity	Total in Figures
4j	8 Inch Gate Valve and Box, per each		
		3	EA
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
4k	12 Inch Gate Valve and Box, per each		
		6	EA
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
4l	1 Inch Corporation Cock, per each		
		24	EA
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
4m	1.5 Inch Corporation Cock, per each		
		3	EA
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
4n	2 Inch Corporation Cock, per each		
		1	EA
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	

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Item No.	Brief Description, Unit or Lump Sum Price (In Both Words and Figures)	Ayer West Main Street Infrastructure Project	
		Estimated Quantity	Total in Figures
4o	12"x12" Tapping Sleeve, Valve and Box, per each		
		1	EA
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
4p	Hydrant Assembly, per each		
		7	EA
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
4q	1-inch Curb Stop, per each		
		24	EA
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
4r	1.5-inch Curb Stop, per each		
		3	EA
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
4s	2-inch Curb Stop, per each		
		1	EA
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	

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Item No.	Brief Description, Unit or Lump Sum Price (In Both Words and Figures)	Ayer West Main Street Infrastructure Project	
		Estimated Quantity	Total in Figures
4t	Interconnection Vault and Appurtenances, per lump sum		
		1	LS
	<i>Unit Price, Dollars and cents (words)</i>		
	\$		\$
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
<b>5 - SUBBASE, BASE COURSES, SHOULDERS, PAVEMENTS, AND BERMS</b>			
5a	Dense Grade Crushed Stone for Subbase (shared use path), per cubic yards		
		410	CY
	<i>Unit Price, Dollars and cents (words)</i>		
	\$		\$
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
5b	Reclaimed Pavement for Base Course and/or Sub-Base, per square yards		
		9,875	SY
	<i>Unit Price, Dollars and cents (words)</i>		
	\$		\$
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
5c	Calcium Chloride for Roadway Dust Control, per pound		
		20,000	POUND
	<i>Unit Price, Dollars and cents (words)</i>		
	\$		\$
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
5d	5'/8' Shared Use Path Pavement, per ton		
		280	TON
	<i>Unit Price, Dollars and cents (words)</i>		
	\$		\$
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	

Bid Form  
 Ayer West Main Street Infrastructure Project  
 Ayer, MA

Item No.	Brief Description, Unit or Lump Sum Price (In Both Words and Figures)	Ayer West Main Street Infrastructure Project	
		Estimated Quantity	Total in Figures
5e	Top course pavement, per ton		
		1,720	TON
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
5f	Binder course pavement, per ton		
		2,280	TON
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
5g	Temporary Trench Pavement, per square yard		
		2,300	SY
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
5h	Cold Planing, per square yards		
		3,490	SY
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
5i	Gravel Sub-Base, per cubic yards		
		655	CY
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	



Bid Form  
 Ayer West Main Street Infrastructure Project  
 Ayer, MA

Item No.	Brief Description, Unit or Lump Sum Price (In Both Words and Figures)	Ayer West Main Street Infrastructure Project	
		Estimated Quantity	Total in Figures
<b>6 - CURBING AND EDGING</b>			
6a	Granite Curb Type VB - Straight, per linear foot		
		3,820	LF
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
6b	Granite Curb Type VB - Curved, per linear foot		
		45	LF
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
6c	Granite Transition Curb for Wheelchair Ramps - Straight, per linear foot		
		20	LF
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
6d	Granite Transition Curb for Wheelchair Ramps - Curved, per linear foot		
		5	LF
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
6e	Granite Edging Type SB - All Type, per linear foot		
		245	LF
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	

Bid Form  
 Ayer West Main Street Infrastructure Project  
 Ayer, MA

Item No.	Brief Description, Unit or Lump Sum Price (In Both Words and Figures)	Ayer West Main Street Infrastructure Project	
		Estimated Quantity	Total in Figures
6f	Granite Curb Corner Type A, per each		
		52	EA
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
<b>7 - HIGHWAY GUARD, FENCES, AND WALLS</b>			
6g	Curb Removed and Reset, per linear foot		
		400	LF
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
7a	Fence Removed and Stacked, per linear foot		
		200	LF
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
7b	Fence Removed and Reset, per linear foot		
		1,430	LF
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
<b>8 - INCIDENTAL WORK</b>			
8a	Cement Concrete Sidewalk, per square yard		
		1185	SY
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>		

Bid Form  
 Ayer West Main Street Infrastructure Project  
 Ayer, MA

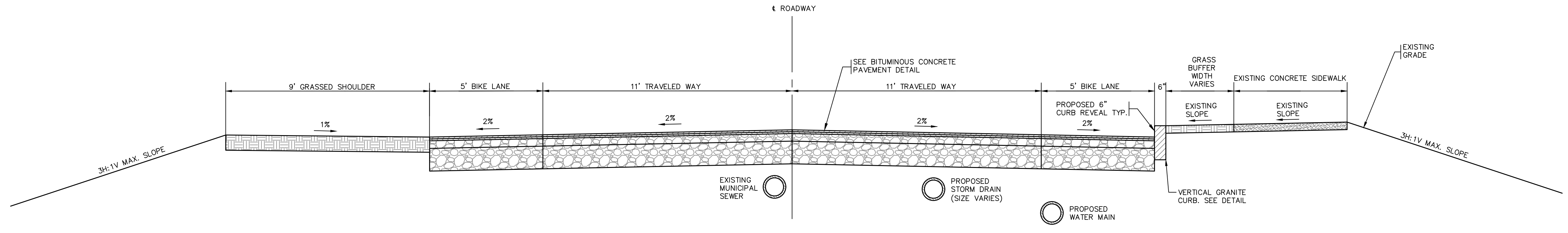
Item No.	Brief Description, Unit or Lump Sum Price (In Both Words and Figures)	Ayer West Main Street Infrastructure Project	
		Estimated Quantity	Total in Figures
8b	Cement Concrete Sidewalk at Driveways, per square yard		
		435	SY
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
8c	Cement Concrete Wheelchair Ramp, per square yard		
		50	SY
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
8d	Mobilization (Not to Exceed 3% of contract total bid), per lump sum		
		1	LS
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
8e	Loam Borrow, per cubic yard		
		460	CY
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
8f	Seeding, per square yard		
		4200	SY
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	

Bid Form  
 Ayer West Main Street Infrastructure Project  
 Ayer, MA

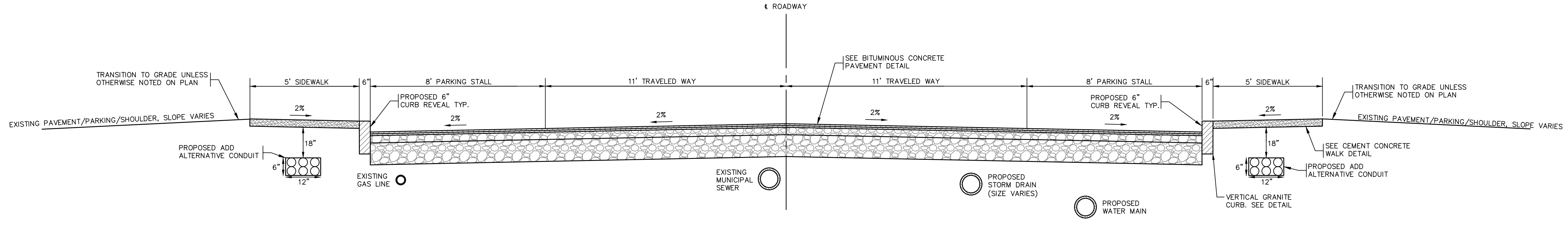
Item No.	Brief Description, Unit or Lump Sum Price (In Both Words and Figures)	Ayer West Main Street Infrastructure Project	
		Estimated Quantity	Total in Figures
8g	Painting and Striping, per lump sum		
		1	LS
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
<b>9 - TRAFFIC CONTROL DEVICES</b>			
9a	Sign Post Removed and Reset, per each		
		10	EA
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
9b	Furnish and Install New Signs and Posts, per each		
		10	EA
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
9c	Sign Post Removed and Discarded, per each		
		10	EA
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	

Bid Form  
 Ayer West Main Street Infrastructure Project  
 Ayer, MA

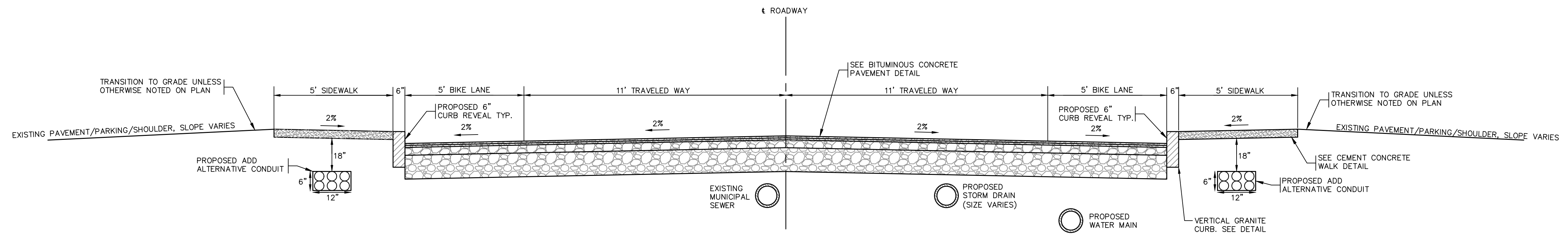
Item No.	Brief Description, Unit or Lump Sum Price (In Both Words and Figures)	Ayer West Main Street Infrastructure Project	
		Estimated Quantity	Total in Figures
<b>ADD ALTERNATES</b>			
A1	60 Inch Corrugated Plastic Pipe, per linear foot	392	LF
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
A2	Bus Stop Enclosure, per each	1	EA
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
A3	Raceways, per linear foot	1,300	LF
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	
A4	SiltPrison 160D - Stormwater Treatment, per each	3	EA
	<i>Unit Price, Dollars and cents (words)</i>		
	\$	\$	
	<i>Unit Price in Figures</i>	<i>Total Item Price in Figures</i>	



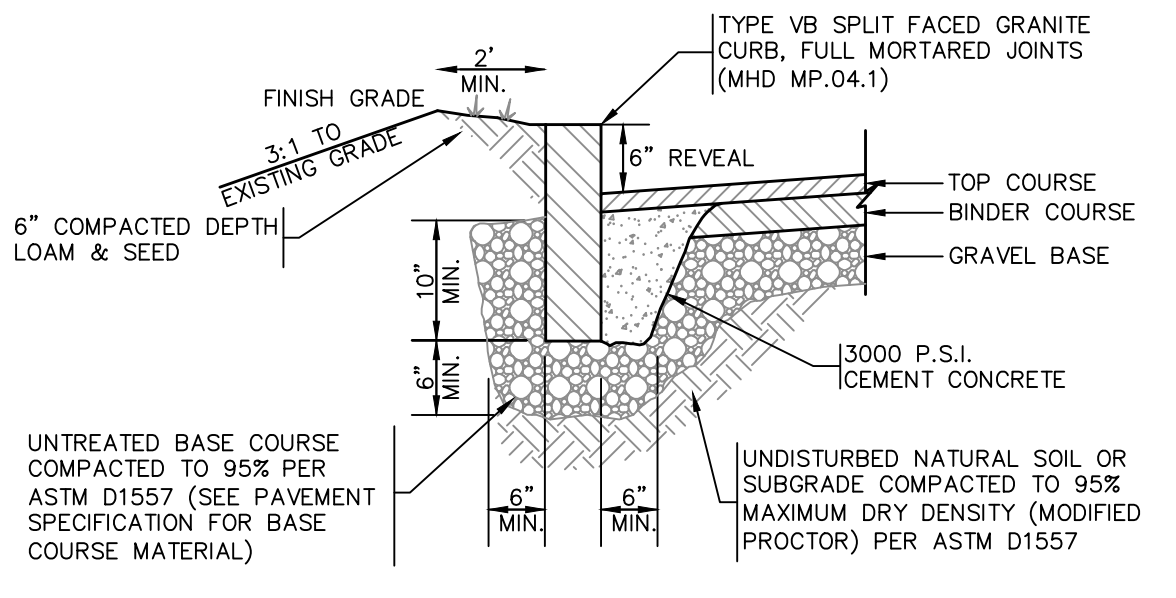
C3  
1  
ROADWAY SECTION A-A: STA. 30+00 TO 36+30  
TYPICAL CROSS SECTION  
NOT TO SCALE



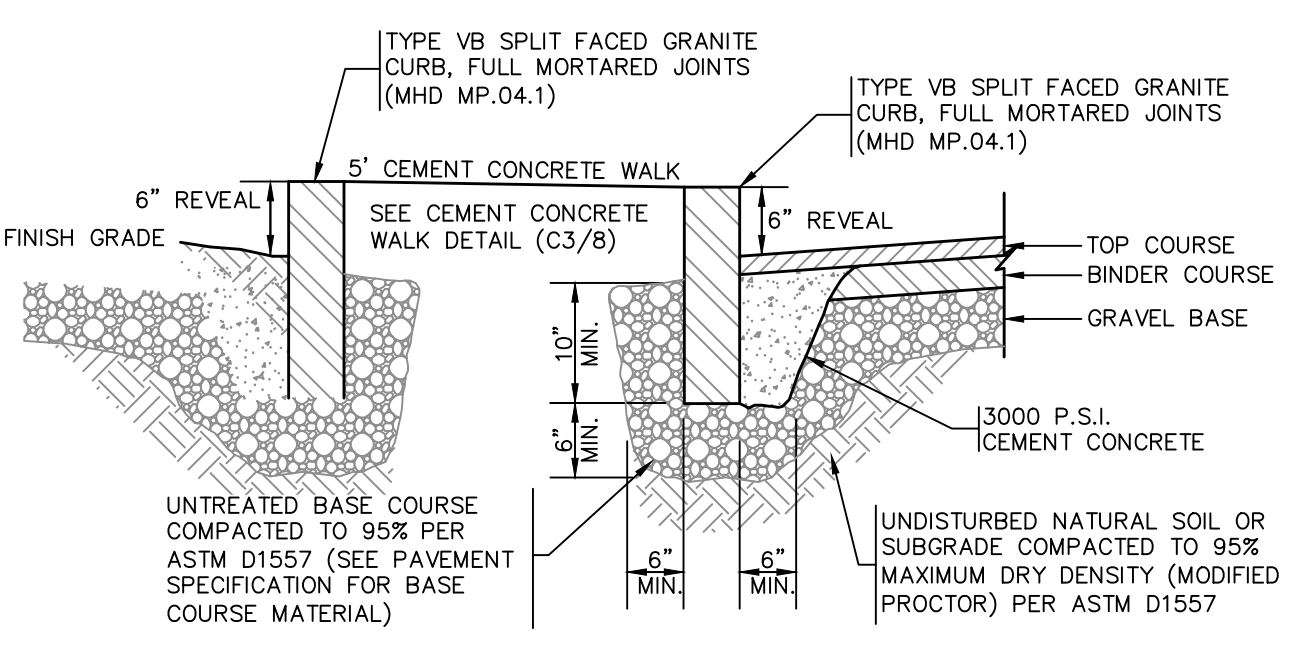
C3  
2  
ROADWAY SECTION B-B: STA. 36+30 TO 44+00  
TYPICAL CROSS SECTION  
NOT TO SCALE



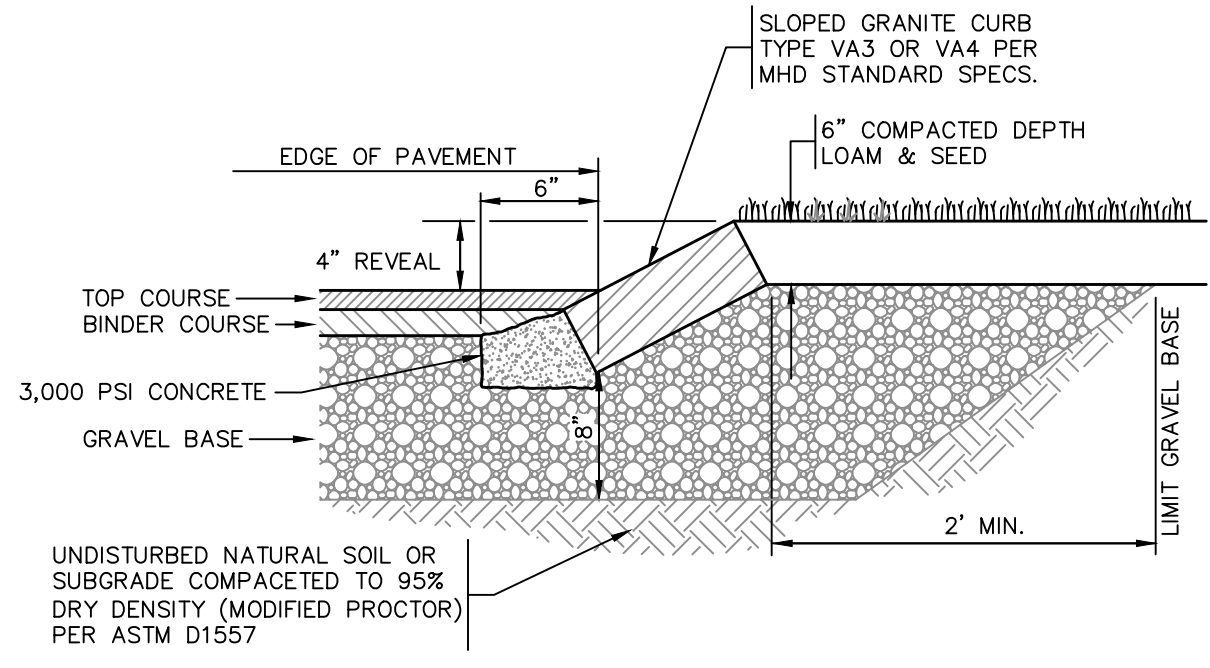
C3  
3  
ROADWAY SECTION C-C: STA. 44+00 TO 51+50  
TYPICAL CROSS SECTION  
NOT TO SCALE



C3  
4  
VERTICAL GRANITE CURB  
TYPICAL CROSS SECTION  
NOT TO SCALE



C3  
5  
BACKSIDE VERTICAL GRANITE CURB  
TYPICAL CROSS SECTION  
NOT TO SCALE

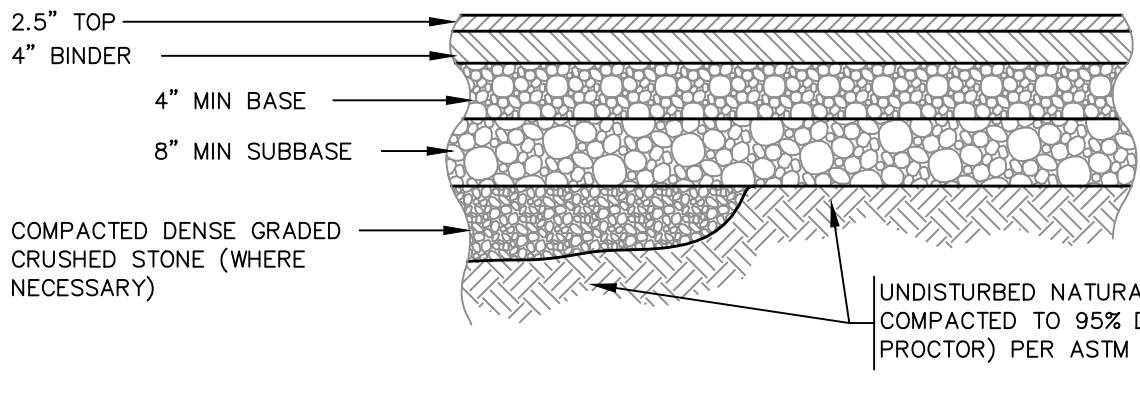


C3  
6  
SLOPED GRANITE CURB  
TYPICAL CROSS SECTION  
NOT TO SCALE

**PAVEMENT NOTES:**

- TEMPORARY FULL DEPTH RECLAMATION: 2 1/2\"/>

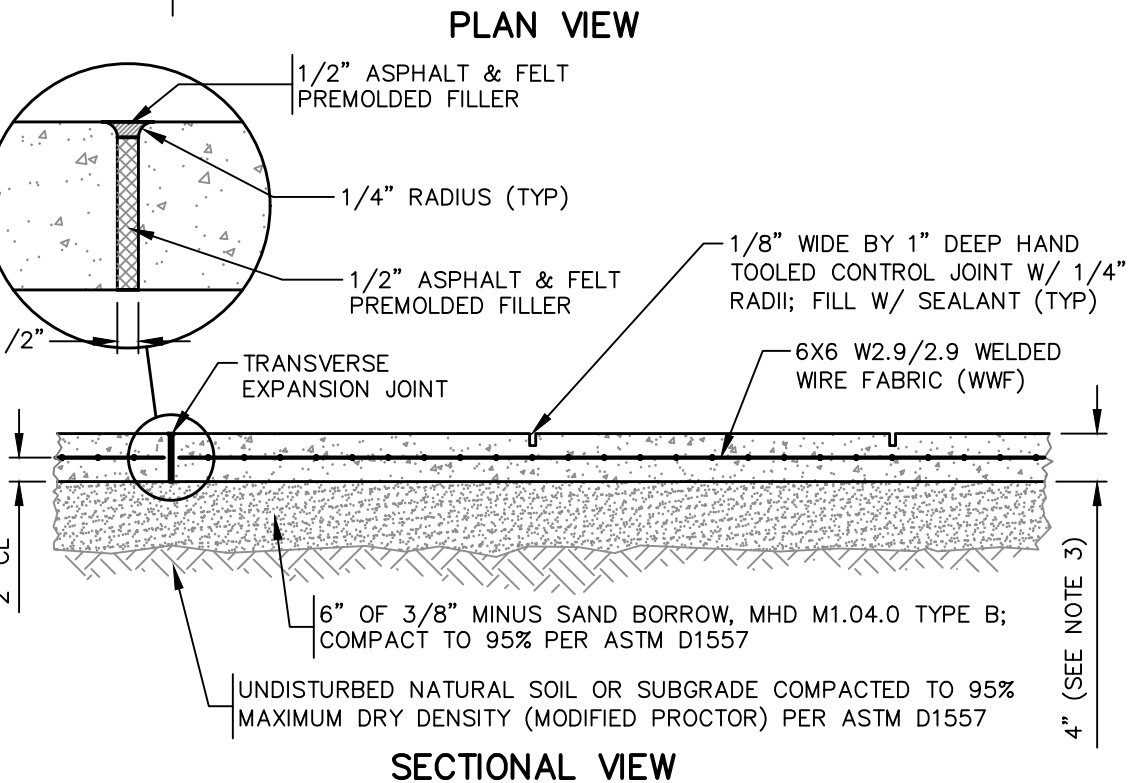
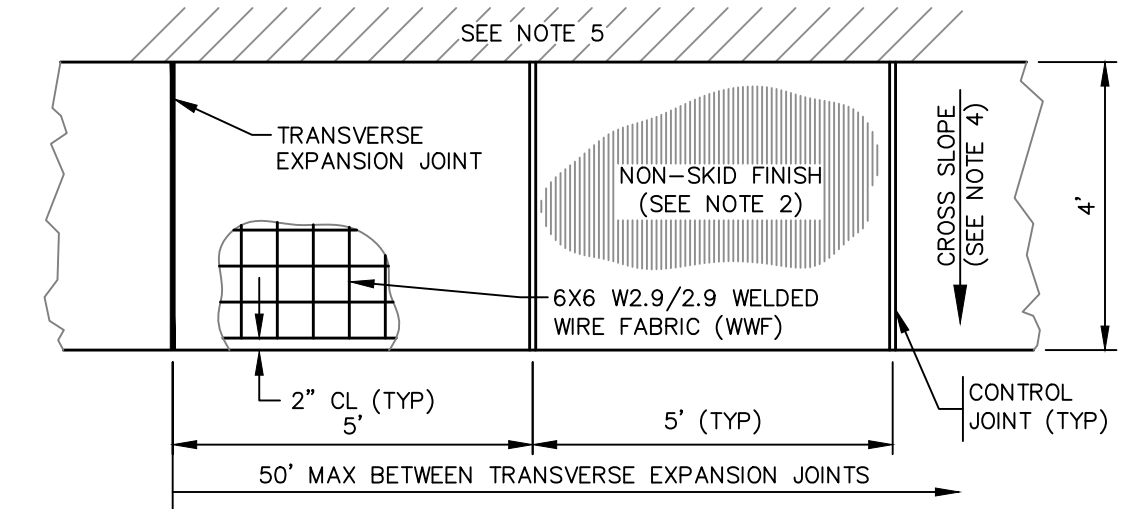
**COURSE THICKNESS**



COURSE	MATERIAL	SPECIFICATION PER MASS HIGHWAY DEPARTMENT (MHD)	MAX AGG. SIZE (INCH)	COMPACTION REQUIREMENTS
TOP	BITUMINOUS CONCRETE	M3.11.03 CLASS I, TYPE I-1	1/2	[NOTE 1] AASHTO-T166
BINDER	BITUMINOUS CONCRETE	M3.11.03 CLASS I, TYPE I-1	3/4	[NOTE 1] AASHTO-T166
BASE	GRAVEL BORROW	M1.03.0 TYPE C	2	95% [NOTE 3] ASTM D1557/AASHTO-T99
SUBBASE	GRAVEL BORROW	M1.03.0 TYPE B	3	95% [NOTE 3] ASTM D1557/AASHTO-T99
SUBGRADE	ORDINARY BORROW	M1.01.0 [SEE NOTE 2]	8	95% [NOTE 3] ASTM D1557/AASHTO-T99

**NOTES:**

- [1] COMPACT TO TEST AVERAGE OF 95%. TEST SHALL NOT BE LOWER THAN 93%.
- [2] UNSUITABLE MATERIAL IN THE SUBGRADE SHALL BE REMOVED AND REPLACED WITH AN ACCEPTABLE SUBSTITUTE MATERIAL: 3/4\"/>



**NOTES:**

- [1] CEMENT CONCRETE: 4000 PSI AT 28 DAYS W/ 3/8\"/>

CERTIFICATION:

BID SET  
ADDENDA 1

STATUS:

ENGINEER:

Ayer DPW  
25 Brook Street  
Ayer, Massachusetts

REVISIONS:

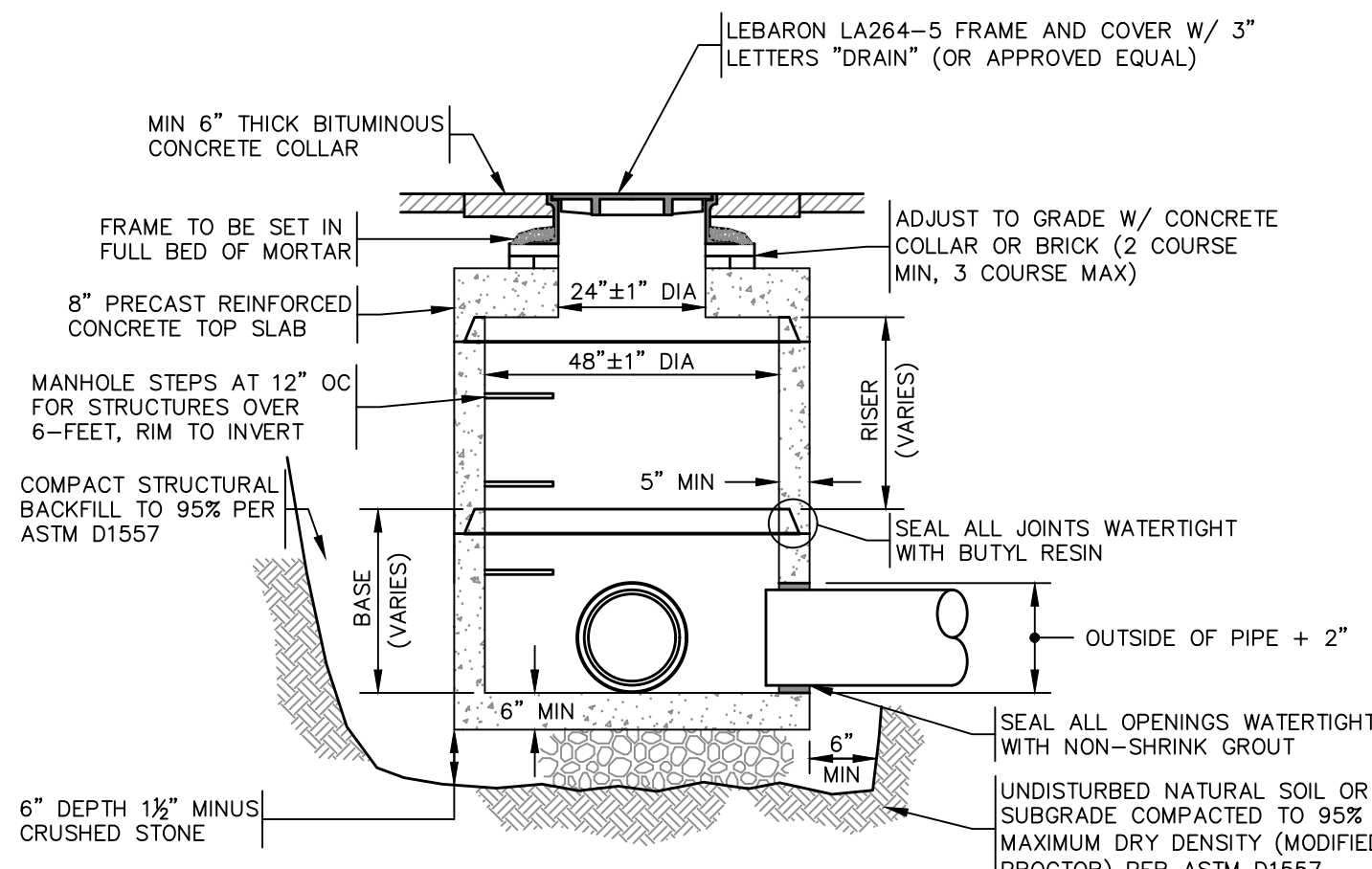
MARK	DATE	DESCRIPTION
	9/16/21	ADDENDUM #1

PROJECT NO: 191029  
WORK ORDER NO:  
PROJECT NAME:  
WEST MAIN STREET  
ROADWAY IMPROVEMENTS

AUTHOR:  
DRAFTER: MCL  
CHECKED BY: KFB  
DATE: AUGUST 2021  
SHEET TITLE:  
TYPICAL ROAD CROSS  
SECTIONS &  
CONSTRUCTION DETAILS

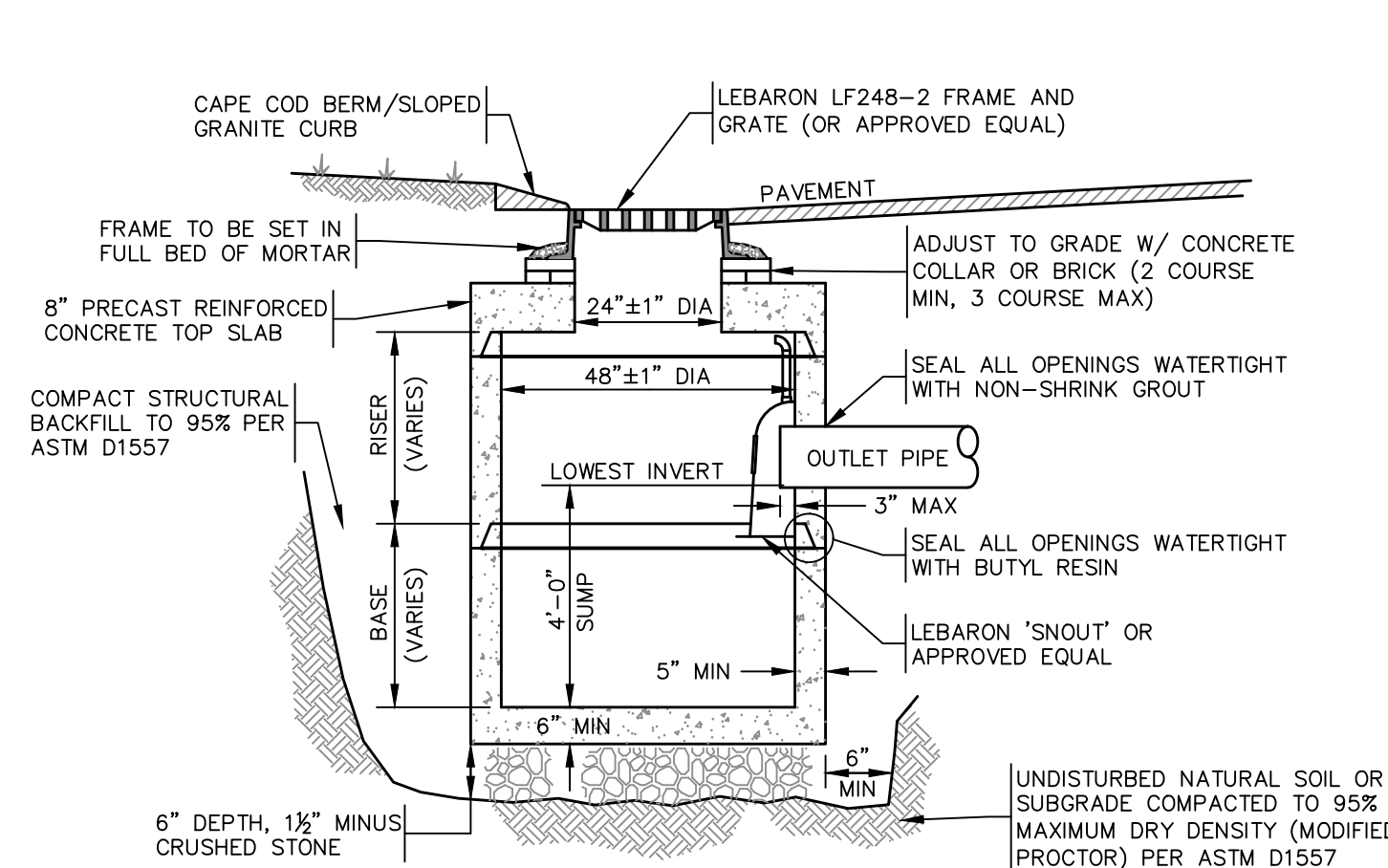
SHEET:

C3



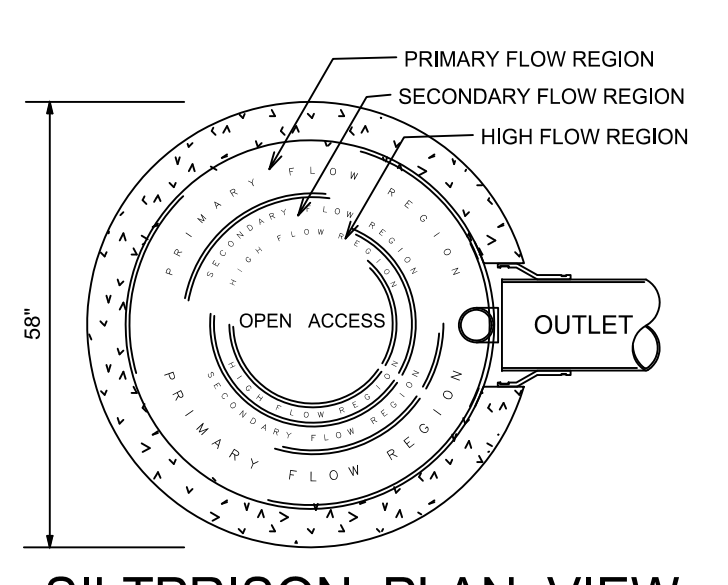
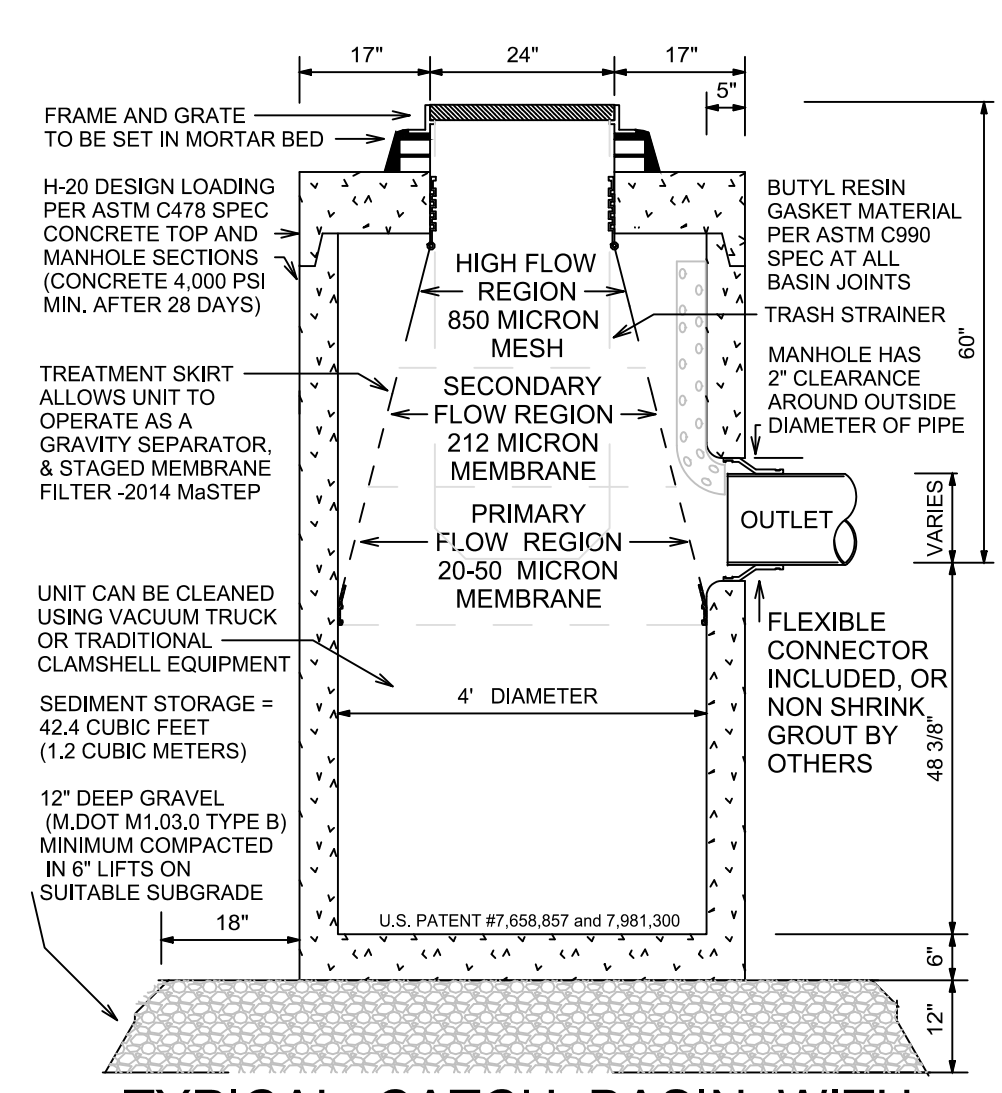
NOTES:  
 [1] 4,000 PSI PRECAST CONCRETE AT 28 DAYS CONFORMING WITH LATEST ASTM C478  
 [2] REINFORCING PER LATEST ASTM A185  
 [3] STRUCTURE SHALL BE RATED FOR H-20 LOADING UNLESS SPECIFIED OTHERWISE.

**DRAIN MANHOLE**  
 TYPICAL CROSS SECTION  
 NOT TO SCALE



NOTES:  
 [1] 4,000 PSI PRECAST CONCRETE AT 28 DAYS CONFORMING WITH LATEST ASTM C478  
 [2] REINFORCING PER LATEST ASTM A185  
 [3] STRUCTURE SHALL BE RATED FOR H-20 LOADING UNLESS SPECIFIED OTHERWISE.

**CATCH BASIN**  
 TYPICAL CROSS SECTION  
 NOT TO SCALE

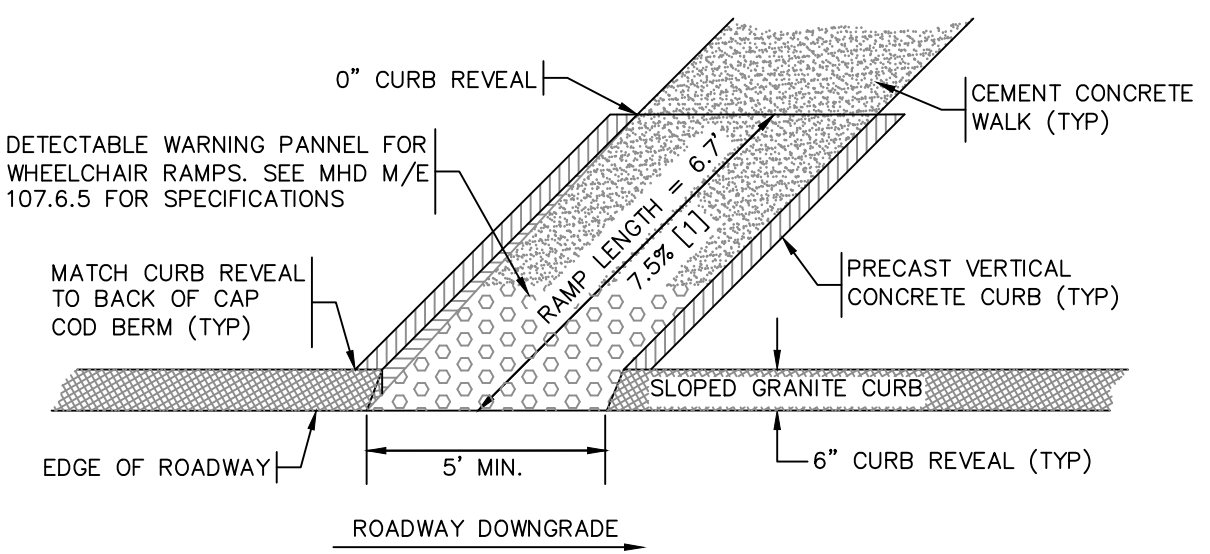


NOTES:  
 o MANHOLES TO BE SET BY DRAINAGE CONTRACTOR IN CONJUNCTION WITH OTHER DRAINAGE MANHOLES AND PIPING, SET IN ACCORDANCE WITH CITY OR STATE SPECIFICATION WITH REGARD TO BASE AND BACKFILL MATERIALS, COMPACTION AND OTHER TOLERANCES.  
 o SBZ SILTPRISON IS COVERED BY U.S. PATENT #7,658,857 and 7,981,300.  
 o CONTACT STORMWATER BUFFER ZONE OR YOUR PRECASTER FOR DETAILS NOT SHOWN ON THIS DRAWING AT 978-801-1729 or info@stormwaterbufferzone.com  
 o SEE www.MaSTEP.net FOR DETAILS  
 o UNITS HAVE BEEN APPROVED FOR USE BY MassDEP

**TYPICAL CATCH BASIN WITH SILTPRISON DETAIL**

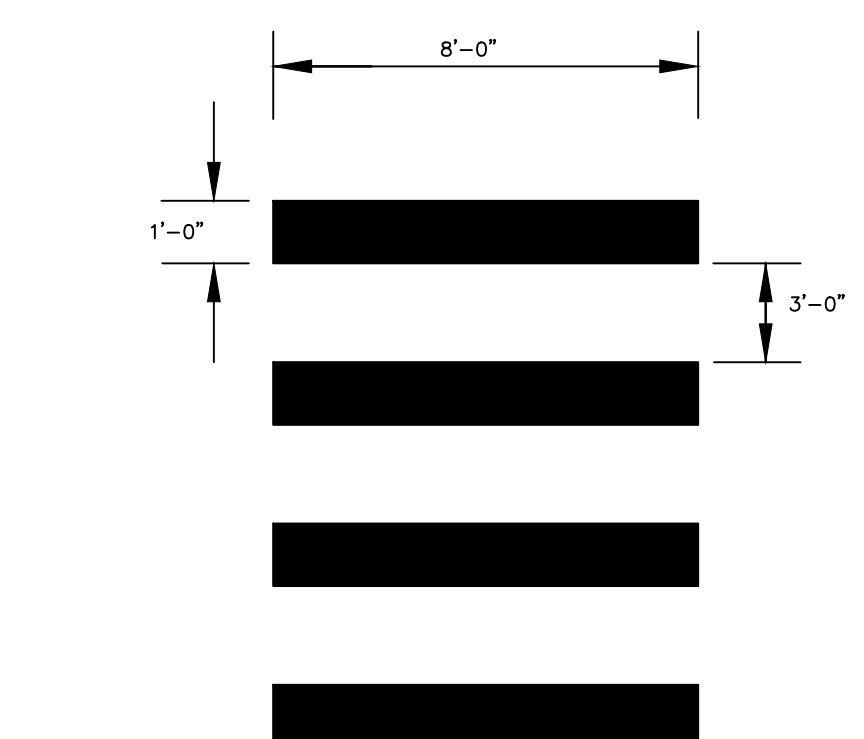


**SILT PRISON CATCH BASIN**  
 NOT TO SCALE



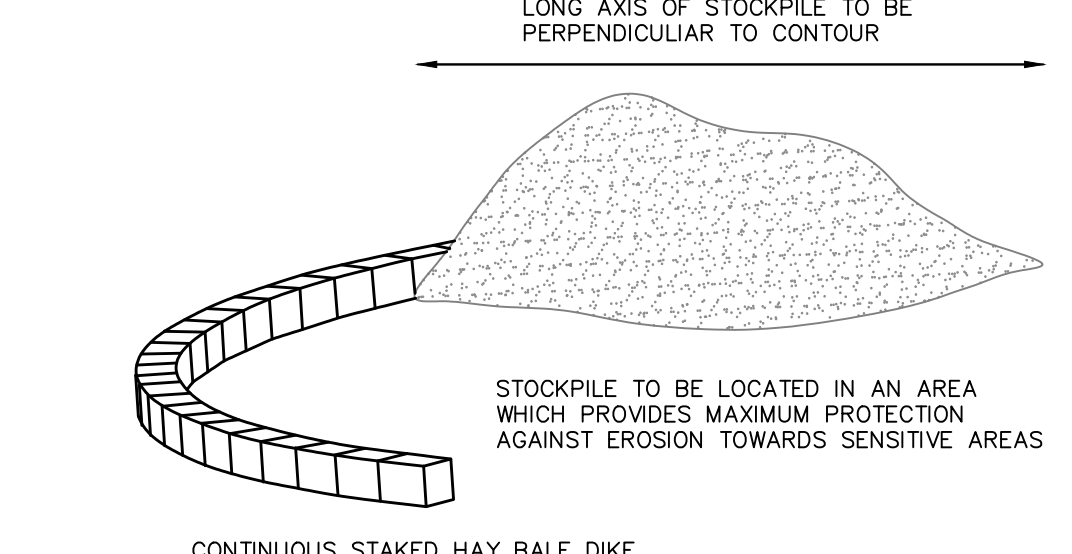
NOTES:  
 [1] TOLERANCE FOR CONSTRUCTION 0.5%

**HANDICAP ACCESSIBLE RAMP #1**  
 TYPICAL PLAN VIEW  
 NOT TO SCALE

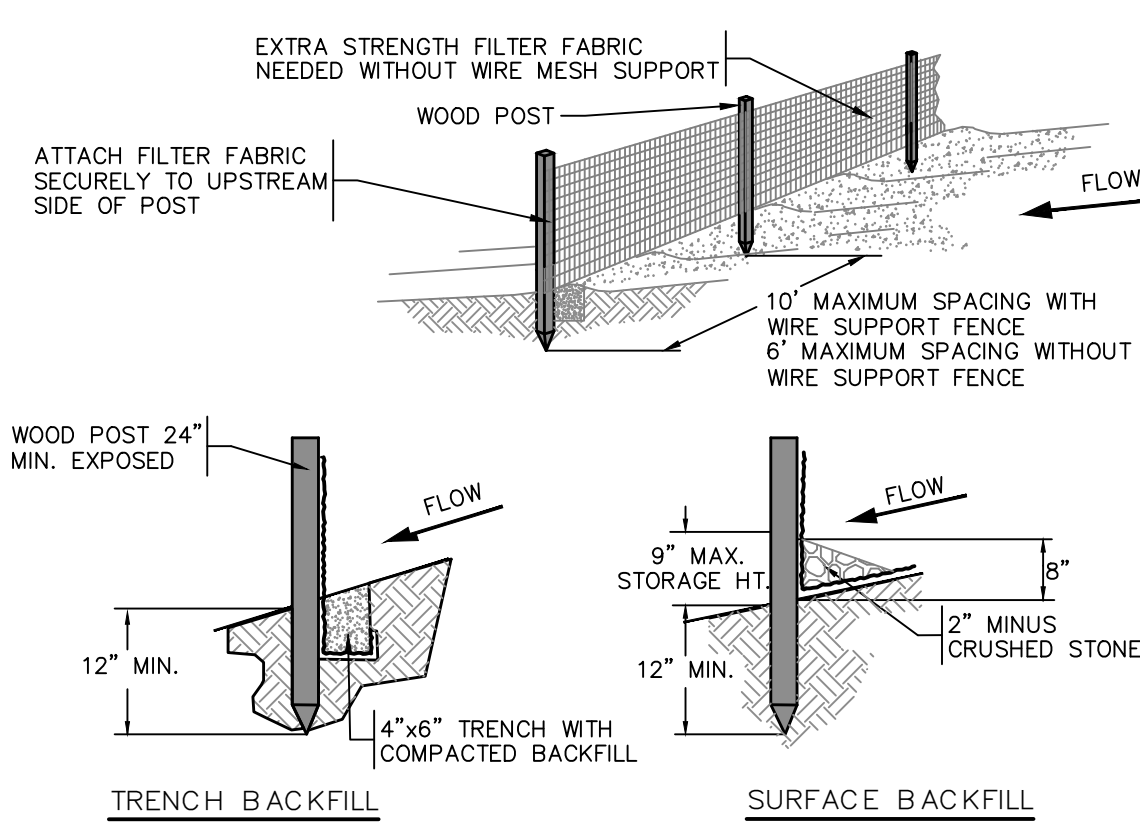


NOTE: LADDER MARKINGS SHALL BE WHITE PAINT

**LADDER-TYPE CROSSWALK**  
 TYPICAL CROSS SECTION  
 NOT TO SCALE

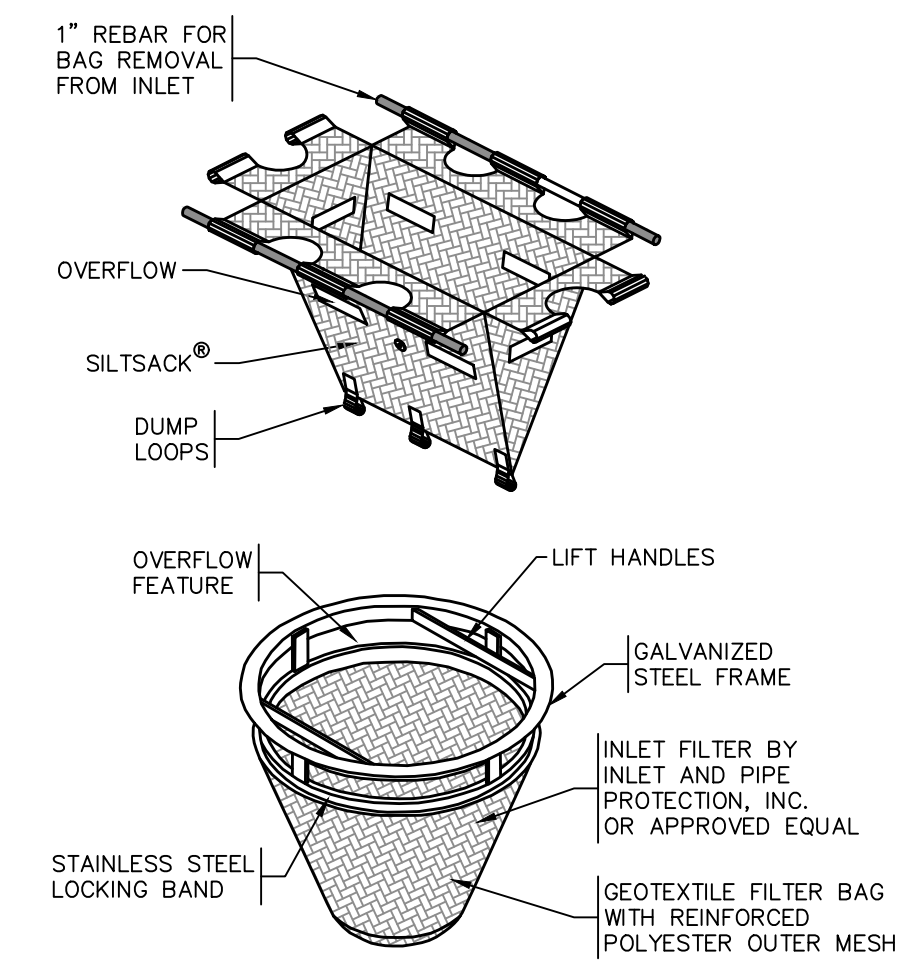


**TEMPORARY STOCKPILE**  
 ISOMETRIC VIEW  
 NOT TO SCALE



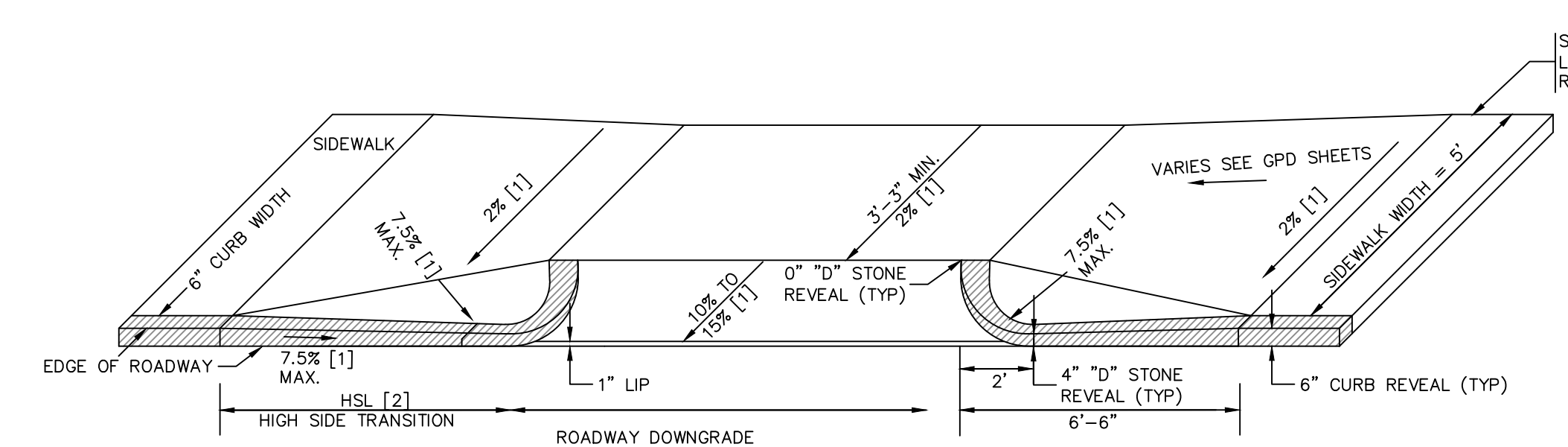
NOTES:  
 [1] SILT FENCE SHALL BE PLACED ALONG CONTOUR TO MAXIMIZE PONDING EFFICIENCY.  
 [2] INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.  
 [3] REMOVED SEDIMENT SHALL BE DEPOSITED TO A NON-SENSITIVE UPLAND AREA.

**SILT FENCE BARRIER**  
 TYPICAL CROSS SECTION  
 NOT TO SCALE



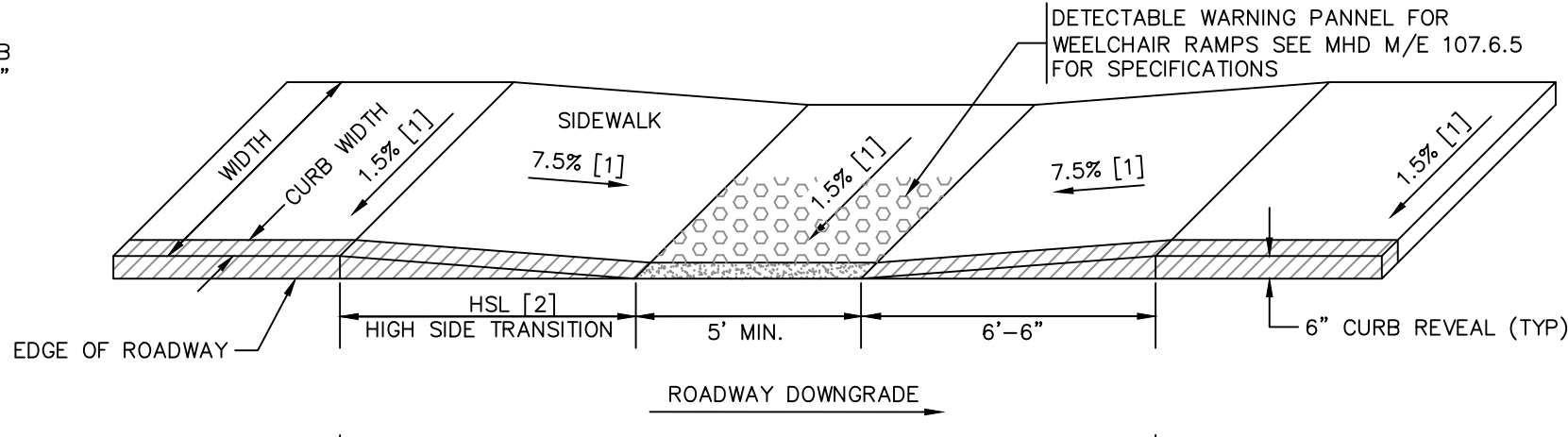
NOTES:  
 [1] CLEAN INLET PROTECTION WHEN 30% FULL  
 [2] BURLAP IS NOT AN ACCEPTABLE GEOTEXTILE

**INLET PROTECTION**  
 TYPICAL CROSS SECTION  
 NOT TO SCALE



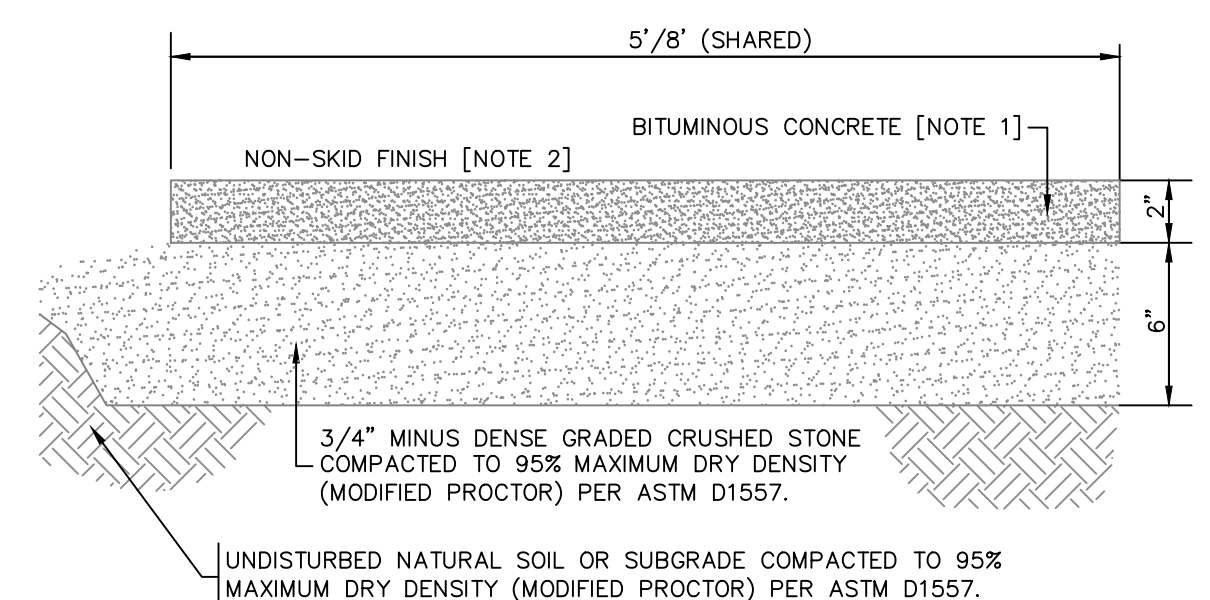
NOTES:  
 [1] TOLERANCE FOR CONSTRUCTION 0.5%  
 [2] HSL - HIGH SIDE TRANSITION LENGTH (SEE M/E 107.9.0)

**DRIVEWAY APRON**  
 TYPICAL PLAN VIEW  
 NOT TO SCALE



NOTES:  
 [1] TOLERANCE FOR CONSTRUCTION 0.5%  
 [2] HSL - HIGH SIDE TRANSITION LENGTH (SEE M/E 107.9.0)  
 [3] USABLE SIDEWALK WIDTH PER AAB = WIDTH - CURB WIDTH

**HANDICAP ACCESSIBLE RAMP #2**  
 TYPICAL PLAN VIEW  
 NOT TO SCALE



NOTES:  
 [1] MHD M3.11.03 CLASS 1, TYPE 1-1 BITUMINOUS CONCRETE, 1/2" MAXIMUM AGGREGATE OR PARTICLE SIZE, COMPACT TO TEST AVERAGE OF 95% NO TEST LOWER THAN 93%  
 [2] SLOPE 5% MAXIMUM.

**BITUMINOUS WALK**  
 TYPICAL CROSS SECTION  
 NOT TO SCALE

CERTIFICATION:

BID SET  
 ADDENDA 1

STATUS:

ENGINEER:



Ayer DPW  
 25 Brook Street  
 Ayer, Massachusetts

REVISIONS:

MARK	DATE	DESCRIPTION
	9/16/21	ADDENDUM #1

PROJECT NO: 191029

WORK ORDER NO:

PROJECT NAME:  
 WEST MAIN STREET  
 ROADWAY IMPROVEMENTS

AUTHOR:

DRAFTER: MCL

CHECKED BY: KFB

DATE: AUGUST 2021

SHEET TITLE:  
 CONSTRUCTION DETAILS

SHEET:

C4

CONSTRUCTION NOTES

- 1. THE CONTRACTOR SHALL VERIFY TO HIS OWN SATISFACTION THAT ALL PERMITS HAVE BEEN OBTAINED TO COMPLETE SPECIFIED WORK.
2. PAVEMENT IS TO BE SAWCUT AS SHOWN ON THE DRAWINGS.
3. THE CONTRACTOR SHALL REPAIR ALL PAVEMENT DISTURBED BY CONSTRUCTION WORK. THE CONTRACTOR SHALL SECURE HIS EXCAVATION AT THE END OF EACH WORK DAY TO THE SATISFACTION OF THE ENGINEER.
...
54. PROJECT SIGN SHALL BE FURNISHED AND INSTALLED PRIOR TO CONSTRUCTION ACTIVITIES, IN ACCORDANCE WITH SPECIFICATIONS AND AT THE LOCATION INDICATED ON THE DRAWINGS.
55. WORK ON ADJACENT PROPERTIES MAY BE REQUIRED FOR TYING IN GRADES AND WALKS/DRIVES.

EROSION AND SEDIMENT CONTROL REQUIREMENTS

PART 1 - GENERAL

1.01 SUMMARY

- A. FURNISH, INSTALL, AND MAINTAIN TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES, SUCH AS, BUT NOT NECESSARILY LIMITED TO, HAY BALE AND SILT FENCE BARRIERS, RIPRAP, DIVERSION CHANNELS AND BERMS, VEHICLE TRACKING PAD, EROSION CONTROL BLANKETS, INLET PROTECTION DEVICES, CHECK DAMS, STRATEGICALLY LOCATED AND PROTECTED STOCKPILES, SEDIMENT BASINS, MULCH, AND SEED MIX (HEREINAFTER "CONTROL MEASURES") ADEQUATE TO PREVENT THE CONVEYANCE OF SEDIMENT LAIDEN RUNOFF FROM SITE, OR INTO ENVIRONMENTALLY SENSITIVE AREAS, OR INTO AREAS WHERE WORK WILL BE ADVERSELY IMPACTED. ENVIRONMENTALLY SENSITIVE AREAS INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO, WETLANDS, TRIBUTARIES TO WETLANDS, WETLAND BUFFER ZONES, INTERMITTENT AND PERENNIAL STREAMS / RIVERS, AND THEIR ATTENDANT BUFFER ZONES.
1. REFER TO DRAWINGS FOR LOCATION AND DETAILS OF CONTROL MEASURES REQUIRED TO COMMENCE WORK. THESE CONTROL MEASURES WILL BE ADEQUATE ONLY FOR VEGETATION CLEARING. THE DRAWINGS ARE NOT INTENDED TO GRAPHICALLY DEPICT ALL CONTROL MEASURES THAT WILL BE REQUIRED TO MEET THE REQUIREMENTS OF SECTION 1.01.A ABOVE.
2. DEVISE AND EMPLOY CONTROL MEASURES THROUGHOUT THE DURATION OF PROJECT, OVER ALL AREAS DISTURBED OR UNDISTURBED BY CONSTRUCTION, AS NECESSARY TO MEET THE REQUIREMENTS OF SECTION 1.01.A ABOVE, WHILE ALLOWING WORK TO PROCEED IN AN EFFICIENT, COST EFFECTIVE MANNER.
...
5. ONCE THE SITE IS PERMANENTLY STABILIZED AND CERTIFIED AS SUCH BY ENGINEER, REMOVE TEMPORARY CONTROL MEASURES WHILE PROTECTING STABILIZED SURFACES.

1.02 SUBMITTALS

- A. SUBMIT PRODUCT DATA, WARRANTY, AND TEST REPORTS FOR PRODUCTS AS INDICATED ON THE DRAWINGS.

1.03 QUALITY ASSURANCE

- A. COMPLY WITH GOVERNING CODES AND REGULATIONS. PROVIDE PRODUCTS FROM ACCEPTABLE MANUFACTURERS. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
B. CONFORM TO CONDITIONS OF APPROVAL ISSUED BY REGULATORY AGENCIES INCLUDING, BUT NOT NECESSARILY LIMITED TO, LOCAL PLANNING BOARD, CONSERVATION COMMISSION, BOARD OF SELECTION, BOARD OF HEALTH, PUBLIC WORKS / HIGHWAY DEPARTMENT, STATE ENVIRONMENTAL PROTECTION DEPARTMENT, AND U.S. GOVERNMENT, ENVIRONMENTAL PROTECTION AGENCY. WHERE CONDITIONS OF REGULATORY APPROVAL DIFFER FROM REQUIREMENTS CONTAINED HEREIN OR ON THE DRAWINGS, COMPLY WITH THE MORE STRINGENT REQUIREMENT.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. HAY/STRAW BALES: WEED AND SEED FREE DRY GRASS OR STRAW, MACHINE BOUND WITH JUTE OR WIRE, APPROXIMATE SIZE EACH BALE 42" X 16" X 16".
B. PRE-FABRICATED SEDIMENT FENCE: WOVEN OR MONOFILAMENT GEOTEXTILE; UV-RESISTANT; POLYPROPYLENE OR POLYESTER; MINIMUM GRAB TENSILE OF 124 LBS; WATER PERMITIVITY BETWEEN 0.1 SEC^-1 AND 0.15 SEC^-1; SLURRY FLOW RATE OF 0.3 GAL/SF/MIN; MINIMUM 1"X1" HARDWOOD STAKES WITH INTEGRAL STAKE LOOPS AND STAPLED; APPROVED MANUFACTURERS: NILEX, PROPEX AND MIRAFI OR APPROVED EQUAL.
C. MULCH: ORGANICS INCLUDING STRAW, PROCESSED PINE / HEMLOCK TWIGS, NEEDLES, AND STUMP GRINDING.
D. SEED MIXES: PERENNIAL RYEGRASS, KENTUCKY BLUEGRASS, AND / OR FINE FESCUE, DISEASE RESISTANT. NON-MAINTAINED AREA OPTION - ANNUAL RYEGRASS COMBINED WITH MEDIUM RED CLOVER. CONFIRM USE WITH ENGINEER.
E. EROSION CONTROL EXCELSIOR BLANKET: CURLED WOOD FIBER ON PHOTODEGRADABLE EXTRUDED PLASTIC MATRIX, BOX OF FIBERS 6-INCHES LONG OR LONGER, WEIGHT 0.975 POUNDS / SY, CONTAINING NO CHEMICAL ADDITIVES. APPROVED MANUFACTURERS: NORTH AMERICAN GREEN, AND PROPEX OR APPROVED EQUAL
F. ROCK RIPRAP: SOUND, ANGULAR, 6-INCH MINUS PROCESSED ROCK, BLAST ROCK, OR TAILINGS.
G. CRUSHED STONE: SOUND, ANGULAR, 2-INCH MINUS PROCESSED CRUSHED STONE

PART 3 - EXECUTION

3.01 THROUGHOUT CONSTRUCTION

- A. DEVISE WORK SEQUENCE SO AS TO LIMIT DRAINAGE AREA THAT IS TRIBUTARY TO DISTURBED AREAS. DEVISE, EMPLOY, AND MAINTAIN CONTROL MEASURES SUCH AS DIVERSION CHANNELS AND BERMS, STRATEGICALLY LOCATED STOCKPILES, AND SEDIMENT BASINS TO SUBDIVIDE DRAINAGE AREAS INTO SMALL, MANAGEABLE SUBAREAS, THEREBY MINIMIZING RUNOFF AND THE POTENTIAL FOR EROSION.
B. MAINTAIN BARRIER AT LIMIT OF WORK AND PROTECT EXISTING VEGETATION / FACILITIES OUTSIDE OF LIMIT OF WORK.
C. MAINTAIN SPARE MATERIAL STOCKPILES FOR IMMEDIATE EMPLOYMENT / REPAIR / EXPANSION OF CONTROL MEASURES. AT A MINIMUM, SUCH MATERIALS SHALL INCLUDE HAY BALES, SILT FENCE AND STAKES, AND CRUSHED STONE.
D. INSPECT AND MAINTAIN EFFECTIVENESS OF CONTROL MEASURES BY REPAIRING AS NECESSARY TO ENSURE INTENDED FUNCTION; BY SUPPLEMENTING AS NECESSARY FOR ADEQUATE EXTENT; BY REMOVING TRAPPED PRODUCTS OF EROSION AS NECESSARY TO MAINTAIN EFFECTIVE TRAP VOLUME.
E. LIMIT EXTENT OF WORK AREA SO THAT ALL DISTURBED AREAS CAN BE STABILIZED WITH CONTROL MEASURES WITHIN A 24-HOUR PERIOD.
F. INSTALL CONTROL MEASURES AS SOON AS PRACTICABLE AFTER EACH MANAGEABLE PORTION OF EARTHWORK IS COMPLETE. EMPLOY TEMPORARY MEASURES AS NECESSARY TO STABILIZE DISTURBED AREAS, EVEN WHERE SUBSEQUENT CONSTRUCTION OPERATIONS MAY REQUIRE RE-DISTURBANCE.
G. WHEN INTENSE RAINFALL IS EXPECTED, CONSIDER, DEVISE, AND EMPLOY REINFORCING CONTROL MEASURES PRIOR TO THE RAINFALL EVENT TO MEET THE REQUIREMENTS DESCRIBED IN SECTION 1.01.A ABOVE. IF NECESSARY, EMPLOY TEMPORARY CONTROL MEASURES ON MATERIAL STOCKPILES TO COUNTERACT POTENTIAL SEDIMENT TRANSPORT DURING INTENSE RAINFALL.
H. WHEN VEHICLE REFUELING IS REQUIRED ON SITE, CONDUCT REFUELING OPERATIONS OUTSIDE OF ENVIRONMENTALLY SENSITIVE AREAS AND WITHIN AN AREA THAT IS CONTAINED BY A BEST MANAGEMENT PRACTICE. A PORTABLE SPILL KIT SHALL BE KEPT ON-SITE AT ALL TIMES.
I. PROPERLY DISPOSE OF DEBRIS, SOLID WASTE, TRASH, AND CONSTRUCTION WASTE / BYPRODUCTS OFF SITE. KEEP TRASH BINS/DUMPSTERS COVERED AT ALL TIMES.
J. SWEEP ON-SITE PAVED AREAS AND OFF-SITE STREETS AS NECESSARY TO PREVENT SILT AND DEBRIS ORIGINATING ON SITE FROM ENTERING CLOSED DRAINAGE SYSTEMS AND / OR ENVIRONMENTALLY SENSITIVE AREAS.

3.02 SITE PREPARATION AND ACCESS

- A. WALK SITE AND IDENTIFY LOCATIONS OF LIMIT OF WORK AND ENVIRONMENTALLY SENSITIVE AREAS. ESTABLISH CONSTRUCTION STAGING AREA, LOCATED BEYOND ENVIRONMENTALLY SENSITIVE AREAS.
B. INSTALL CONTROL MEASURES AS SHOWN ON THE DRAWINGS, INCLUDING THOSE DEFINING THE LIMIT OF WORK.
C. LIMIT VEHICULAR TRAFFIC TO AND FROM SITE TO MINIMIZE TRANSPORT OF SEDIMENTATION.

3.03 CLEARING, GRUBBING, AND STRIPPING

- A. SCHEDULE GRUBBING AND STRIPPING TO OCCUR IMMEDIATELY PRIOR TO EARTH DISTURBANCE. DEPENDING ON SITE AREA, CONSIDER MULTIPLE GRUBBING PHASES, SEQUENCED TO TAKE ADVANTAGE OF THE EROSION PREVENTION POTENTIAL OF EXISTING VEGETATIVE COVER.
B. MINIMIZE THE AREA OF EXISTING VEGETATION REMOVED WHEREVER POSSIBLE.
C. LOCATE AND SIZE STOCKPILES TO MINIMIZE EROSION POTENTIAL, TAKING ADVANTAGE OF TERRAIN SLOPE AND ASPECT, WHERE APPROPRIATE.
D. PROTECT VEGETATION, INCLUDING ROOT SYSTEMS, BEYOND LIMIT OF CLEARING.
E. PROCESS TIMBER, STUMPS, SLASH, AND BRUSH SO AS TO PROTECT ENVIRONMENTALLY SENSITIVE AREAS AND INSTALLED CONTROL MEASURES. PROPERLY DISPOSE OF EXCESS OFF SITE. BURIAL OF STUMPS ON SITE IS PROHIBITED.

3.04 EXCAVATION FOR BUILDING FOUNDATIONS AND UTILITIES

- A. DEVISE AND INSTALL CONTROL MEASURES ADEQUATE TO HANDLE DISCHARGES AND TRAP SEDIMENT FROM FOOTING SUMP AND WELL POINT PUMPS PRIOR TO EXCAVATION.
B. ARMOR SUMP PUMP DISCHARGE LOCATIONS TO PREVENT EROSION AT POINT OF DISCHARGE AND AREAS DOWNSTREAM.
C. IF FOUNDATION EXCAVATIONS GRADE TO DAYLIGHT ON THE LOW SIDE, DEVISE AND INSTALL CONTROL MEASURES TO HANDLE SURFACE AND GROUNDWATER FLOW FROM EXCAVATION LOW POINT.
D. STOCKPILE EXCAVATED MATERIALS TO BAFFLE OVERLAND RUNOFF, AVOIDING THE CREATION OF LENGTHY PATHS OF CONCENTRATED RUNOFF.
E. BACKFILL UTILITY TRENCHES AS SOON AS PRACTICABLE TO PREVENT FLOODING, SLOUGHING, POTENTIAL OVERFLOW, AND REPETITIVE EARTH DISTURBANCE.

3.05 SITE GRADING

- A. WHERE APPLICABLE, FOLLOW EXCAVATION AND FILL PRACTICES SHOWN ON DRAWINGS TO LOCALIZE AND MINIMIZE SEDIMENT TRANSPORT.
B. MONITOR SEDIMENTATION VOLUME IN TEMPORARY SEDIMENT BASIN AND AT DIVERSION BERMS AND CHECK DAMS. IN ALL AREAS EXCEPT THOSE THAT DO NOT PRESENT POTENTIAL PROBLEMS WITH REGARD TO FUTURE SOIL STABILITY, DRAINAGE, OR BEARING CAPACITY, REMOVE AND PROPERLY DISPOSE OF TRAPPED SEDIMENTATION BEFORE BRINGING SITE TO FINAL SUBGRADE.
C. IF SEDIMENTATION IS DISPOSED ON-SITE, IT SHALL BE DEPOSITED IN AREAS WHERE RUNOFF CANNOT RE-TRANSPORT DOWNSTREAM.

3.06 STORMWATER MANAGEMENT SYSTEM

- A. THE STORMWATER MANAGEMENT SYSTEM INCLUDES, BUT IS NOT NECESSARILY LIMITED TO, ALL PERMANENT DETENTION / RETENTION BASINS, DISCHARGE STRUCTURES / WEIRS, CULVERTS, OPEN CHANNELS, CURBS, GUTTERS, PAVED SWALES, CATCH BASINS, DRAIN MANHOLES, DRAINAGE PIPES, ROOF DRAIN MANIFOLDS, WATER QUALITY SWALES, SEPARATORS, AND SIMILAR STORMWATER RUNOFF CONVEYANCE, TREATMENT, AND STORAGE FACILITIES.
B. INSTALL STORMWATER MANAGEMENT SYSTEM COMPONENTS STARTING AT THE DOWNSTREAM END AND PROCEED UPSTREAM, WHERE POSSIBLE COMPLETE INSTALLATION OF PERMANENT DETENTION / RETENTION BASINS PRIOR TO BEGINNING WORK ON UPSTREAM SYSTEM COMPONENTS.
C. INSTALL CONTROL MEASURES AT FINISHED UPSTREAM AND DOWNSTREAM PIPE ENDS AS SOON AS POSSIBLE AFTER COMPLETION OF PIPE RUN. SUCH MEASURES INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO, RIPRAP, CHECK DAMS, HAY BALE / SILT FENCE BARRIERS, AND VELOCITY DISSIPATORS.
D. AT THE END OF EACH DAY OR WHEN RAINFALL IS EXPECTED, PLUG UPSTREAM END OF PIPES / DAM OPEN CHANNELS OR OTHERWISE REDIRECT POTENTIAL RUNOFF AND PREVENT FLOW FROM ENTERING PARTIALLY COMPLETED SYSTEM / SYSTEM COMPONENTS.
E. WHERE PORTIONS OF A NEW SYSTEM ARE TO BE ACTIVATED PRIOR TO COMPLETION OF THE ENTIRE SYSTEM, EMPLOY CONTROL MEASURES TO PREVENT SEDIMENT LAIDEN RUNOFF AND DEBRIS FROM ENTERING THE SYSTEM. EMPLOY SILT SACKS OR FABRIC ON CATCH-BASIN INLETS, AND PIPE AND CULVERT OPENINGS. EMPLOY CHECK DAMS AND TEMPORARY SEDIMENT BASINS UPSTREAM OF AND ALONG OPEN CHANNELS, SWALES, AND DITCHES TO TRAP SEDIMENT UPGRADIENT OF ENVIRONMENTALLY SENSITIVE AREAS.
F. REMOVE TRAPPED SEDIMENTATION AND DEBRIS FROM ALL SYSTEM COMPONENTS AFTER COMPLETION OF INSTALLATION, AND AGAIN AFTER THE ENTIRE SITE IS PERMANENTLY STABILIZED BY ESTABLISHED VEGETATION, FINISH LANDSCAPE MATERIALS, PAVED SURFACES, AND/OR ROOF AREA. REMOVE TRAPPED SEDIMENTATION AND DEBRIS FROM DETENTION / RETENTION BASIN BOTTOMS SO THAT FINISH BOTTOM MATERIALS / INFILTRATION FUNCTION CONFORM TO DESIGN.

3.07 LANDSCAPING

- A. COMPLETE LANDSCAPING AS SOON AS POSSIBLE AFTER COMPLETION OF FINAL SUBGRADE.
B. IMMEDIATELY AFTER PLACEMENT OF TOPSOIL, STABILIZE WITH CONTROL MEASURES INCLUDING, BUT NOT NECESSARILY LIMITED TO, SEED MIX, MULCH, AND / OR BLANKET.

TRAFFIC MANAGEMENT

- 1. THE CONTRACTOR MAY CLOSE THE ROAD TO THROUGH TRAFFIC DURING CONSTRUCTION ONLY WHEN APPROVED BY THE AYER POLICE DEPARTMENT. THE CONTRACTOR SHALL PLACE DETOUR SIGNS AT LOCATIONS APPROVED BY THE AYER DPW AND POLICE DEPARTMENT.
2. CONTRACTOR SHALL PROVIDE ACCESS TO LOCAL TRAFFIC AND EMERGENCY VEHICLES AT ALL TIMES.
3. CONTRACTOR SHALL PROVIDE ADDITIONAL SIGNAGE AT EACH END OF THE PROJECT AS REQUIRED BY THE AYER POLICE DEPARTMENT.
4. CONTRACTOR SHALL COORDINATE POLICE DETAILS AS REQUIRED BY THE AYER POLICE DEPARTMENT. THE AYER DPW WILL PAY FOR ALL POLICE DETAIL COSTS IN ACCORDANCE WITH SECTION 01550. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND CANCELING DETAILS. ANY SCHEDULED DETAILS NOT CANCELED BY THE CONTRACTOR SHALL BE PAID FOR BY THE CONTRACTOR.
5. FOR TRAFFIC MANAGEMENT DETAILS AND REQUIREMENTS REFER SECTION 01550.

CERTIFICATION:

BID SET ADDENDA 1

STATUS:

ENGINEER:



Ayer DPW
25 Brook Street
Ayer, Massachusetts

REVISIONS:

Table with columns: MARK, DATE, DESCRIPTION. Row 1: 9/16/21, ADDENDUM #1

PROJECT NO: 191029

WORK ORDER NO:

PROJECT NAME:

WEST MAIN STREET ROADWAY IMPROVEMENTS

AUTHOR:

DRAWN BY: MCL

CHECKED BY: KFB

DATE: AUGUST 2021

SHEET TITLE:

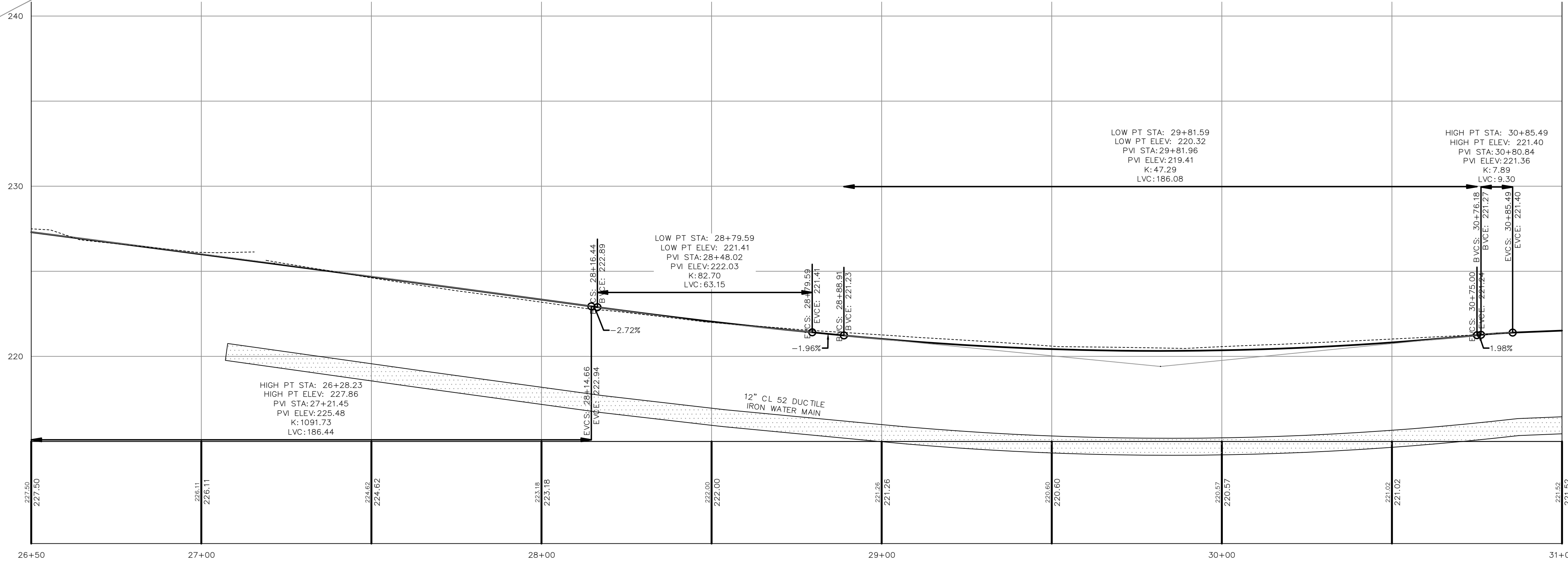
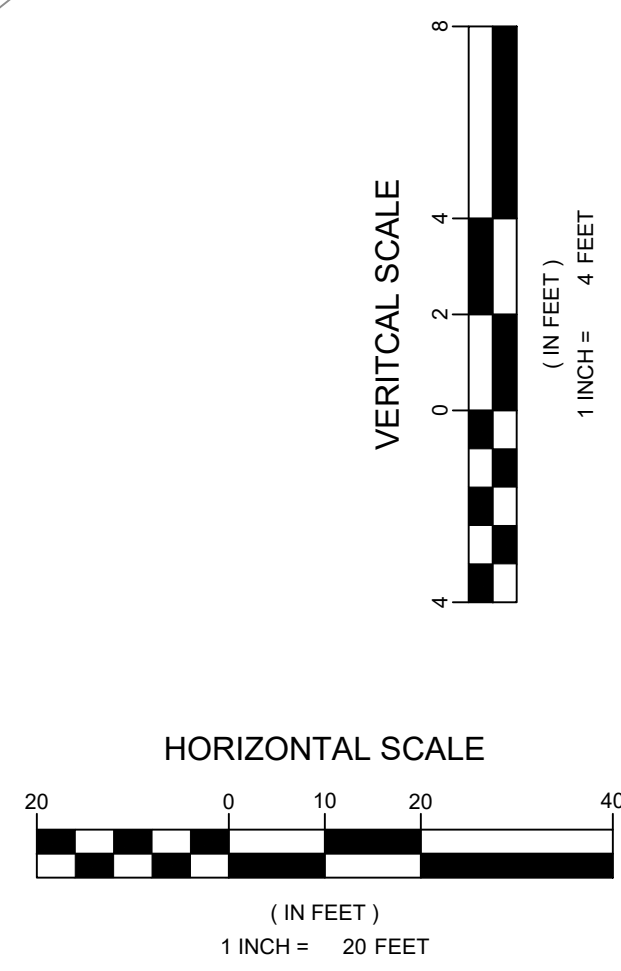
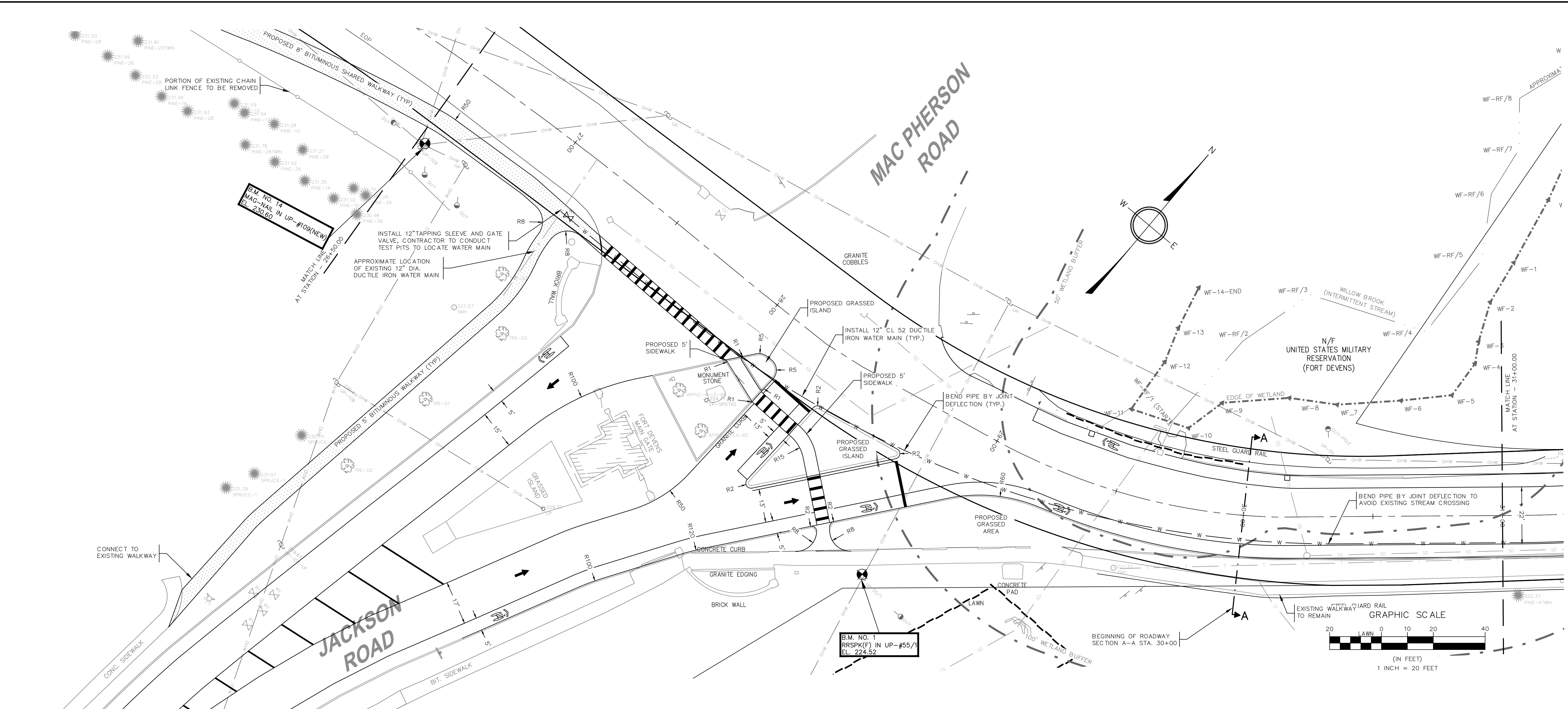
CONSTRUCTION NOTES

SHEET:

C4.2



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**CERTIFICATION:**

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**ADDENDA 1**

**STATUS:**

**ENGINEER:**



Ayer DPW  
 25 Brook Street  
 Ayer, Massachusetts

**REVISIONS:**

MARK	DATE	DESCRIPTION
	9/16/21	ADDENDUM #1

**PROJECT NO:** 191029  
**WORK ORDER NO:**  
**PROJECT NAME:** WEST MAIN STREET ROADWAY IMPROVEMENTS  
**AUTHOR:**  
**DRAFTER:** MCL  
**CHECKED BY:** KFB  
**DATE:** AUGUST 2021  
**SHEET TITLE:** SITE LAYOUT AND UTILITIES PLAN STA. 26+50 TO 31+00  
**SHEET:**

**C8**

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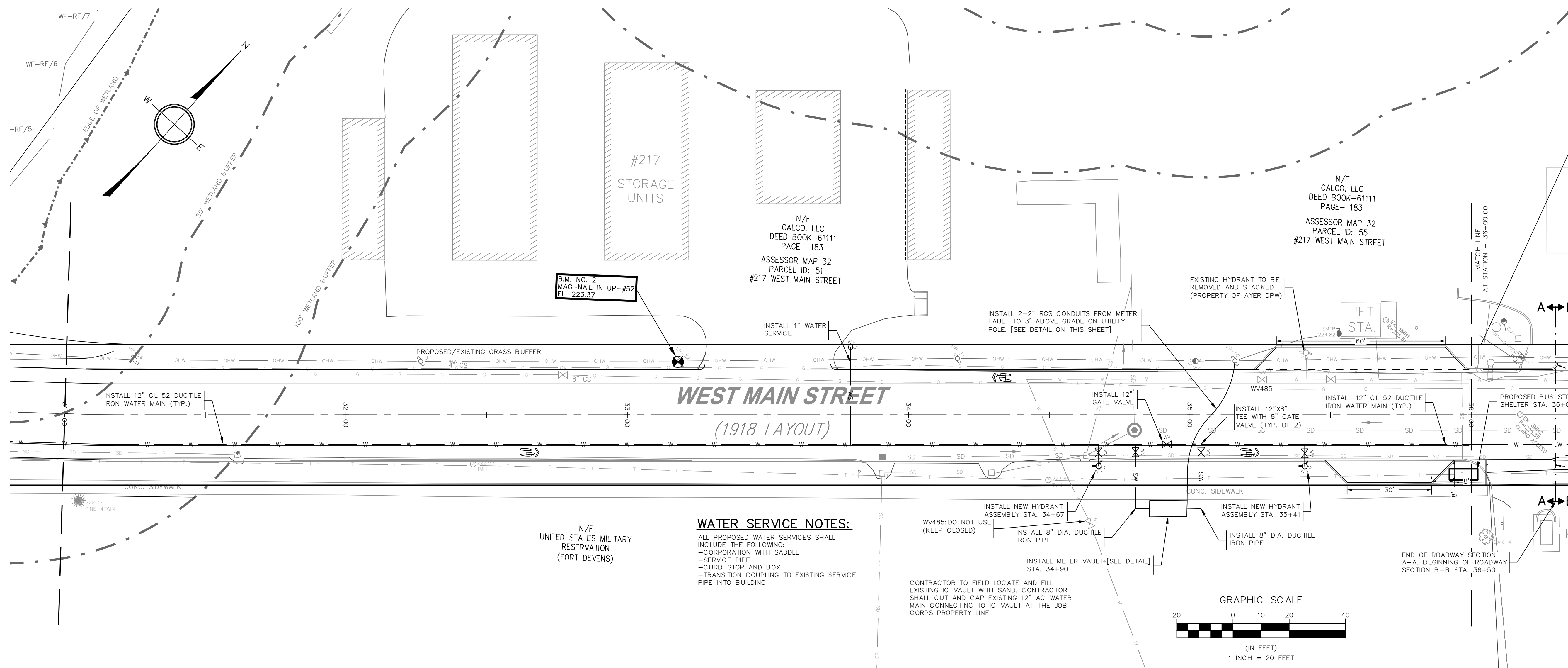
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Ayer DPW  
25 Brook Street  
Ayer, Massachusetts

REVISIONS:

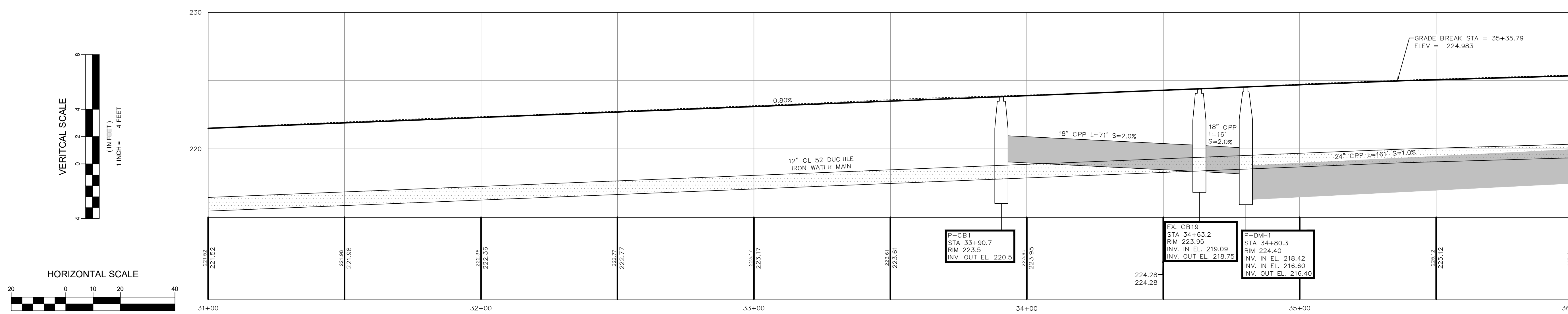
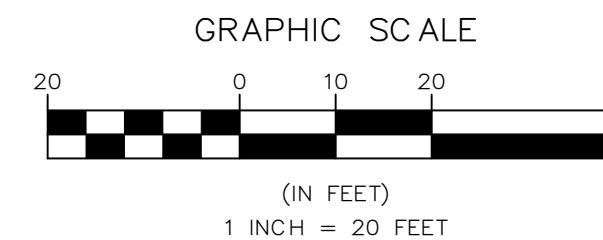
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**WATER SERVICE NOTES:**

ALL PROPOSED WATER SERVICES SHALL INCLUDE THE FOLLOWING:  
 -CORPORATION WITH SADDLE  
 -SERVICE PIPE  
 -CURB STOP AND BOX  
 -TRANSITION COUPLING TO EXISTING SERVICE PIPE INTO BUILDING

CONTRACTOR TO FIELD LOCATE AND FILL EXISTING IC VAULT WITH SAND, CONTRACTOR SHALL CUT AND CAP EXISTING 12\"/>



ROADWAY PROFILE STA. 31+00 TO 36+00

PROJECT NO: 191029

WORK ORDER NO:

PROJECT NAME:  
WEST MAIN STREET  
ROADWAY IMPROVEMENTS

AUTHOR:

DRAFTER: MCL

CHECKED BY: KFB

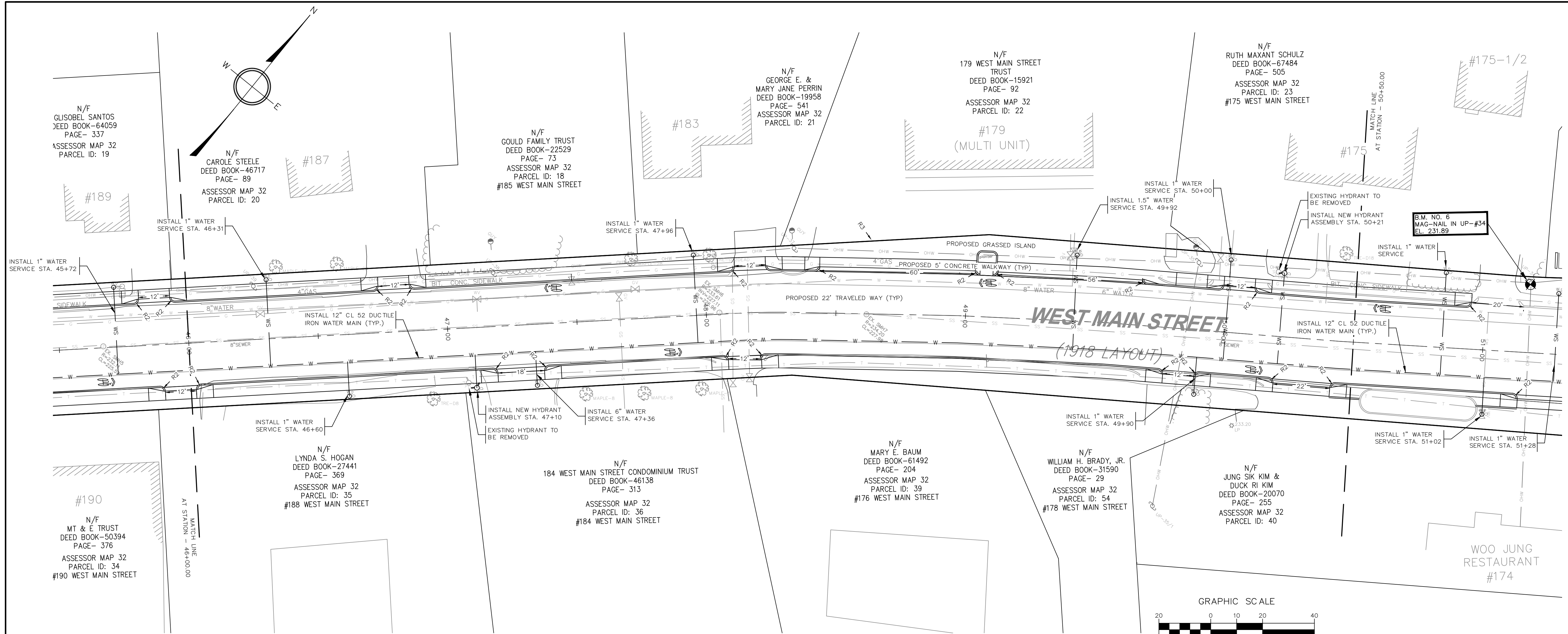
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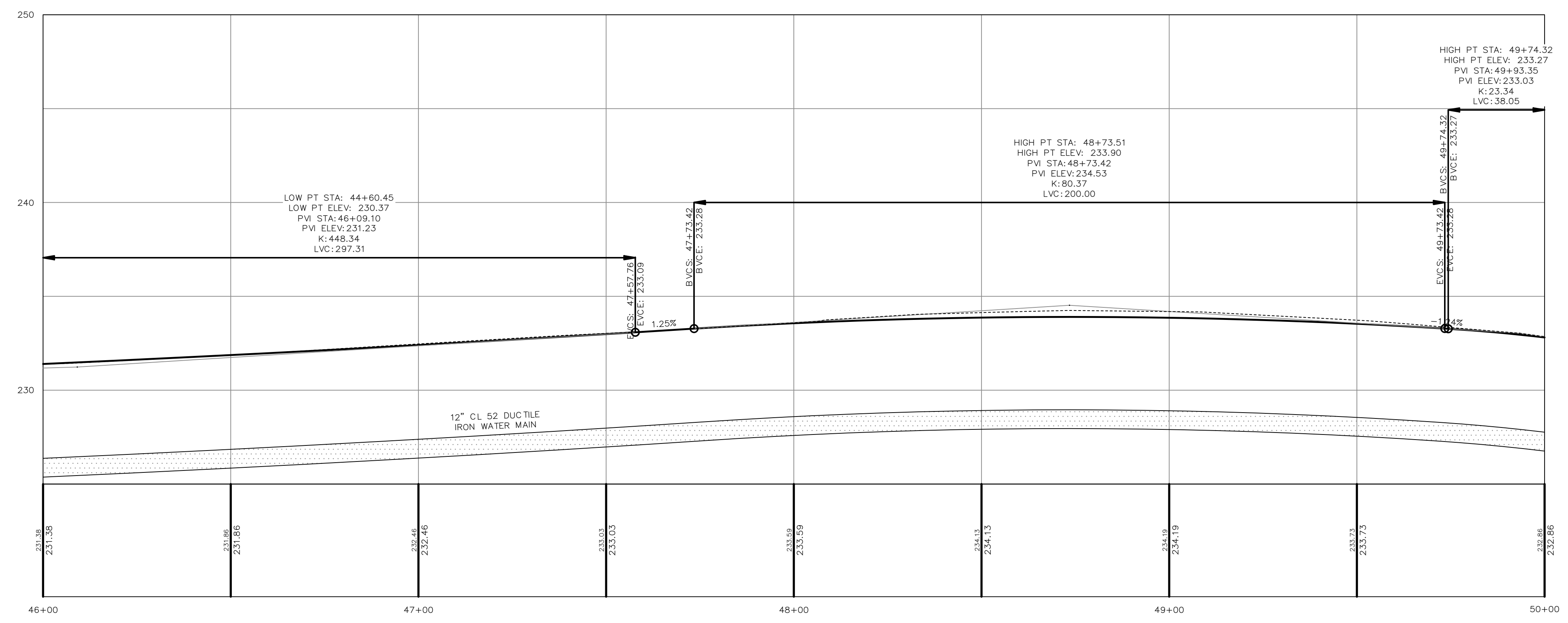
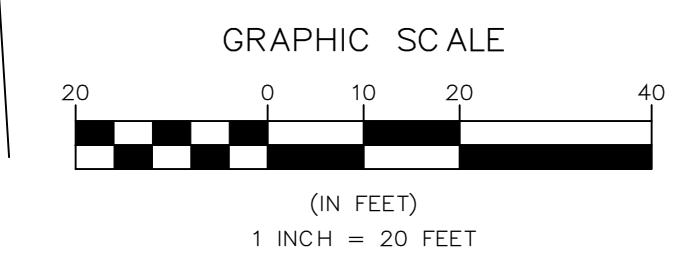
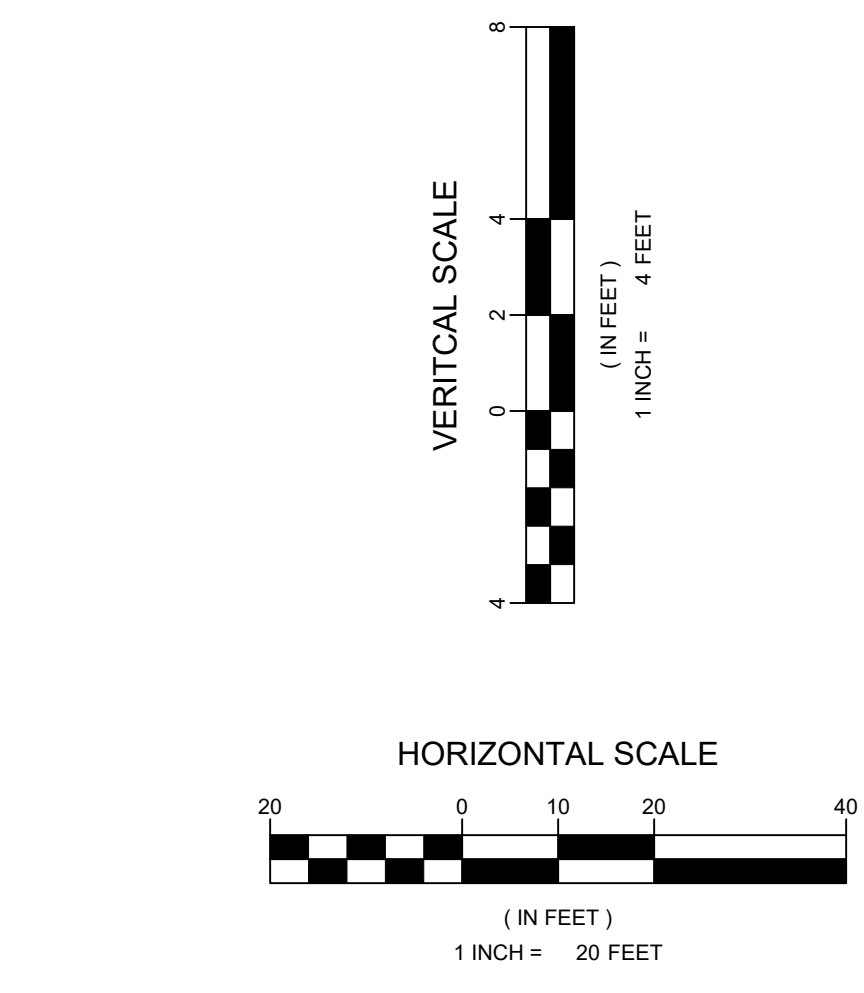
SITE LAYOUT AND  
UTILITIES PLAN  
STA. 31+00 TO 36+00

SHEET:

C9



**WATER SERVICE NOTES:**  
 ALL PROPOSED WATER SERVICES SHALL INCLUDE THE FOLLOWING:  
 -CORPORATION WITH SADDLE  
 -SERVICE PIPE  
 -CURB STOP AND BOX  
 -TRANSITION COUPLING TO EXISTING SERVICE PIPE INTO BUILDING



ROADWAY PROFILE STA. 46+00 TO 50+00

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Ayer, Massachusetts

REVISIONS:

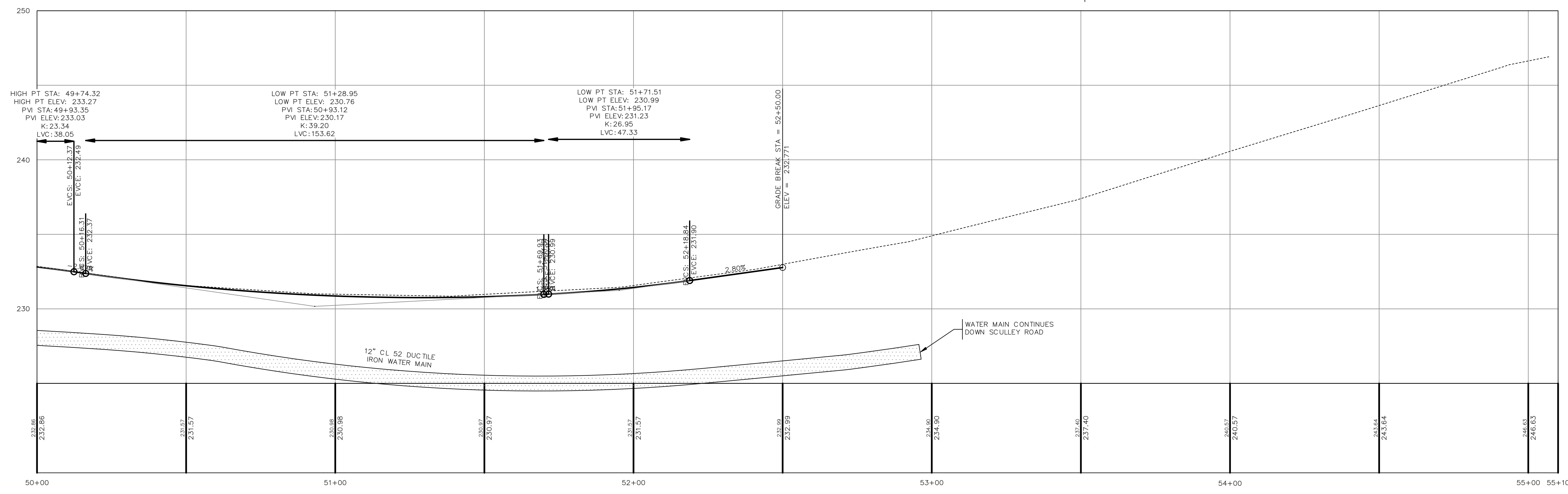
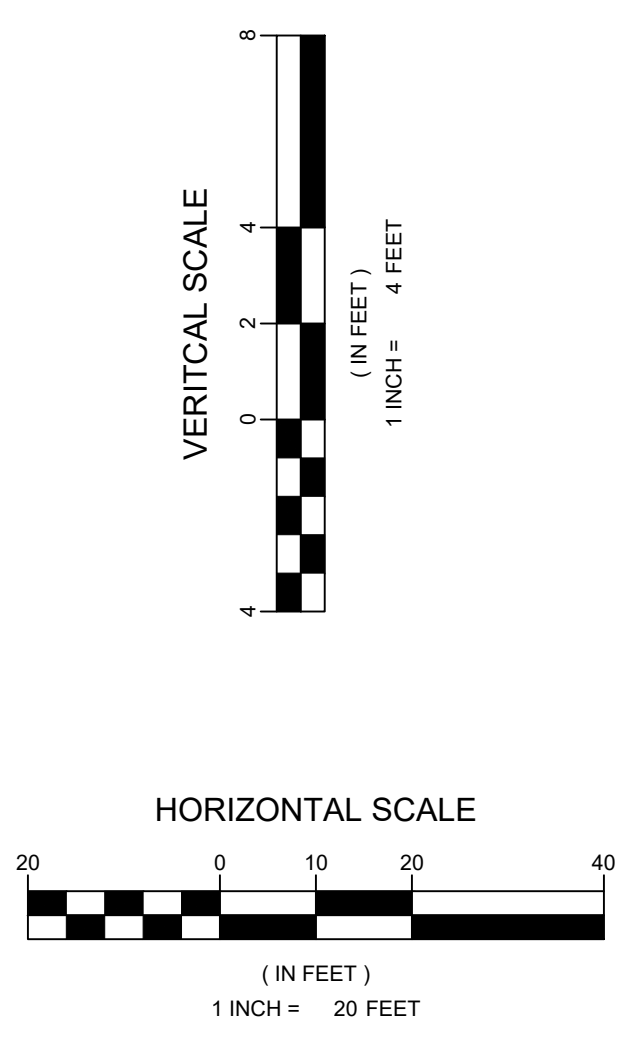
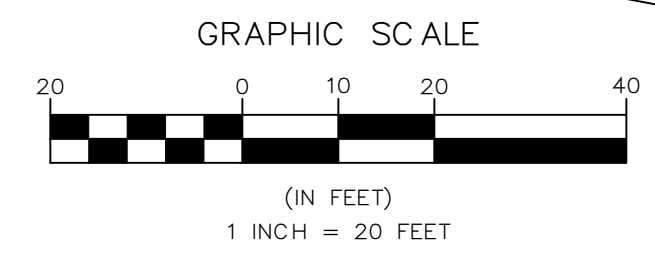
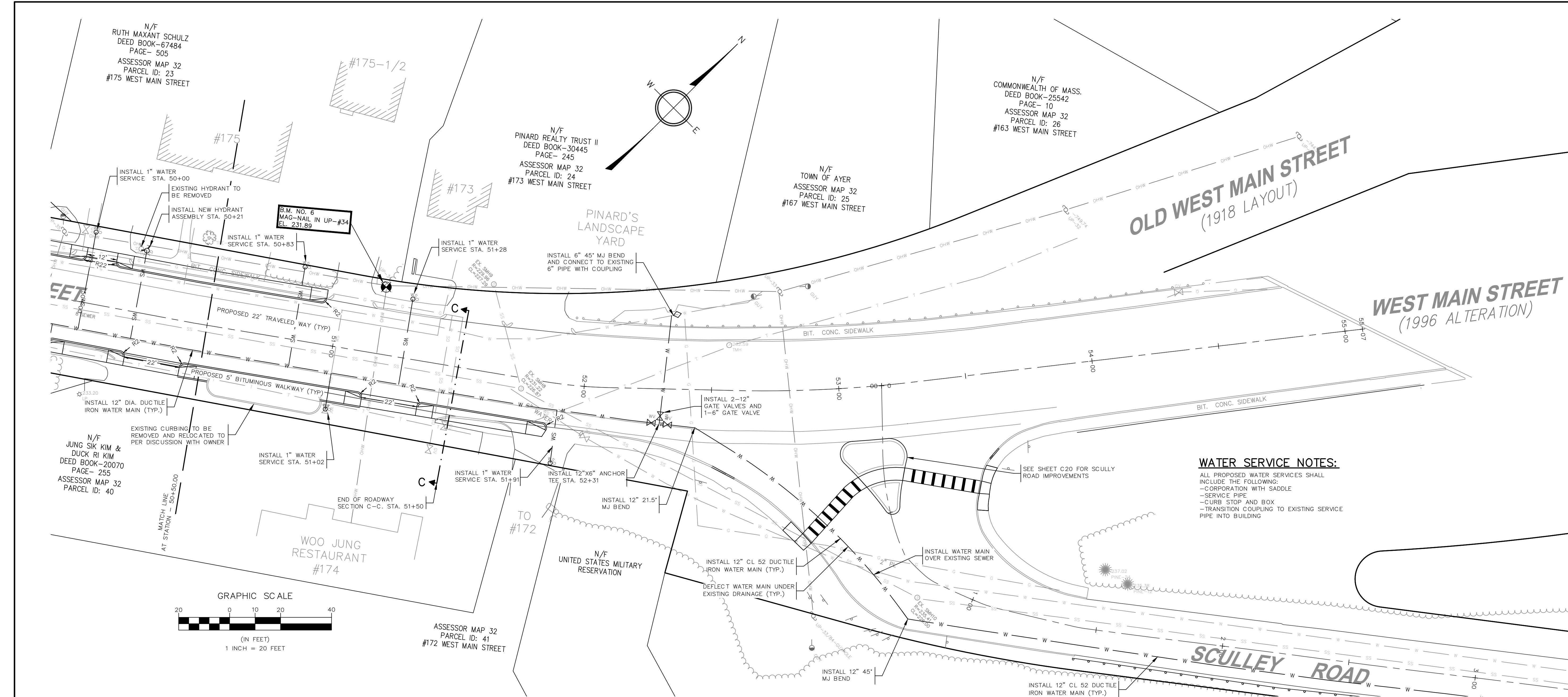
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 ROADWAY IMPROVEMENTS  
 AUTHOR:  
 DRAFTER: MCL  
 CHECKED BY: KFB  
 DATE: AUGUST 2021  
 SHEET TITLE:  
 SITE LAYOUT AND  
 UTILITIES PLAN  
 STA. 46+00 TO 50+00  
 SHEET:

C12

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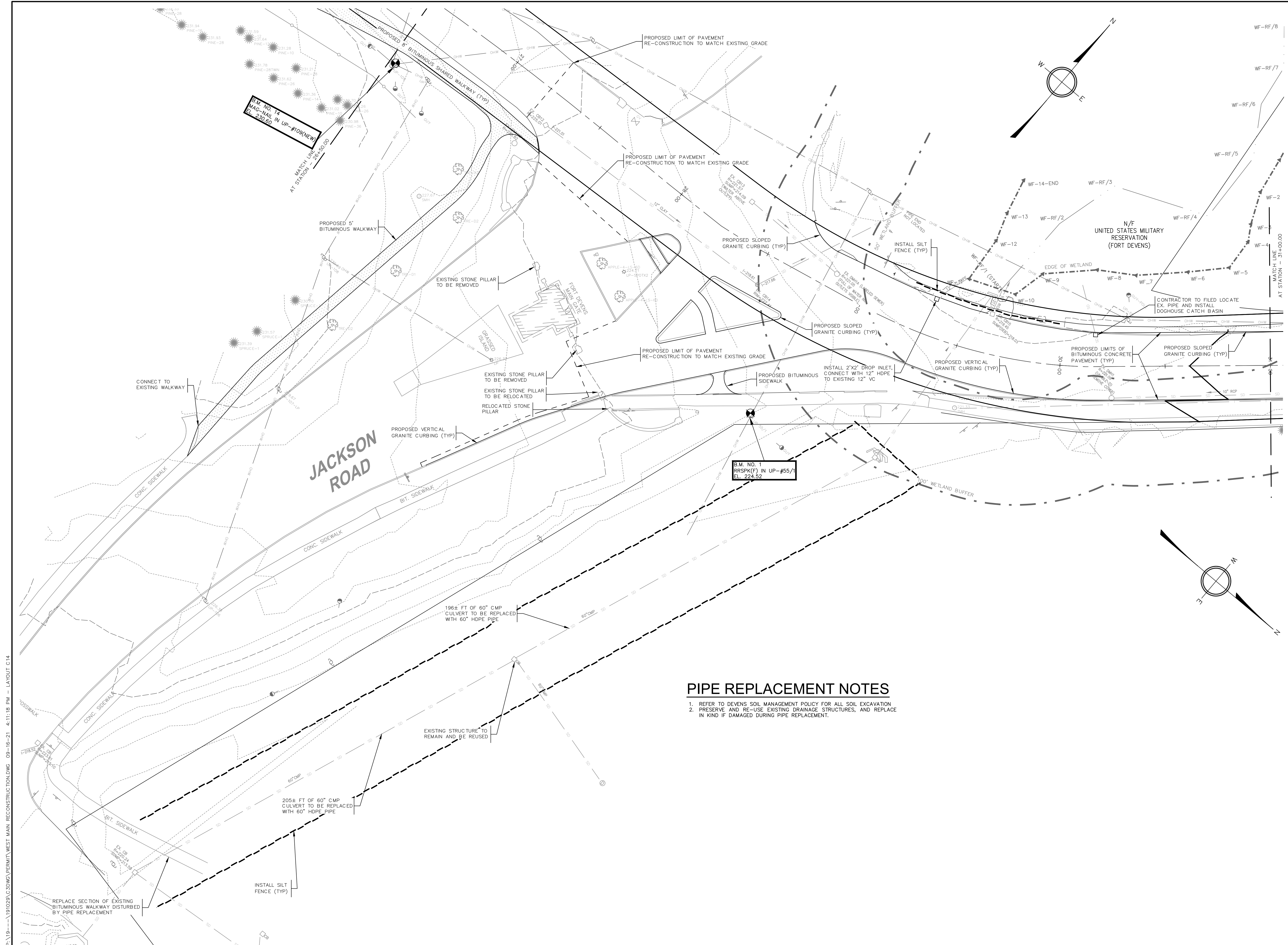
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 UTILITIES PLAN  
 STA. 50+50 TO 55+08

SHEET:

**C13**

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**PIPE REPLACEMENT NOTES**


1. REFER TO DEVENS SOIL MANAGEMENT POLICY FOR ALL SOIL EXCAVATION
2. PRESERVE AND RE-USE EXISTING DRAINAGE STRUCTURES, AND REPLACE IN KIND IF DAMAGED DURING PIPE REPLACEMENT.

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Ayer, Massachusetts

REVISIONS:

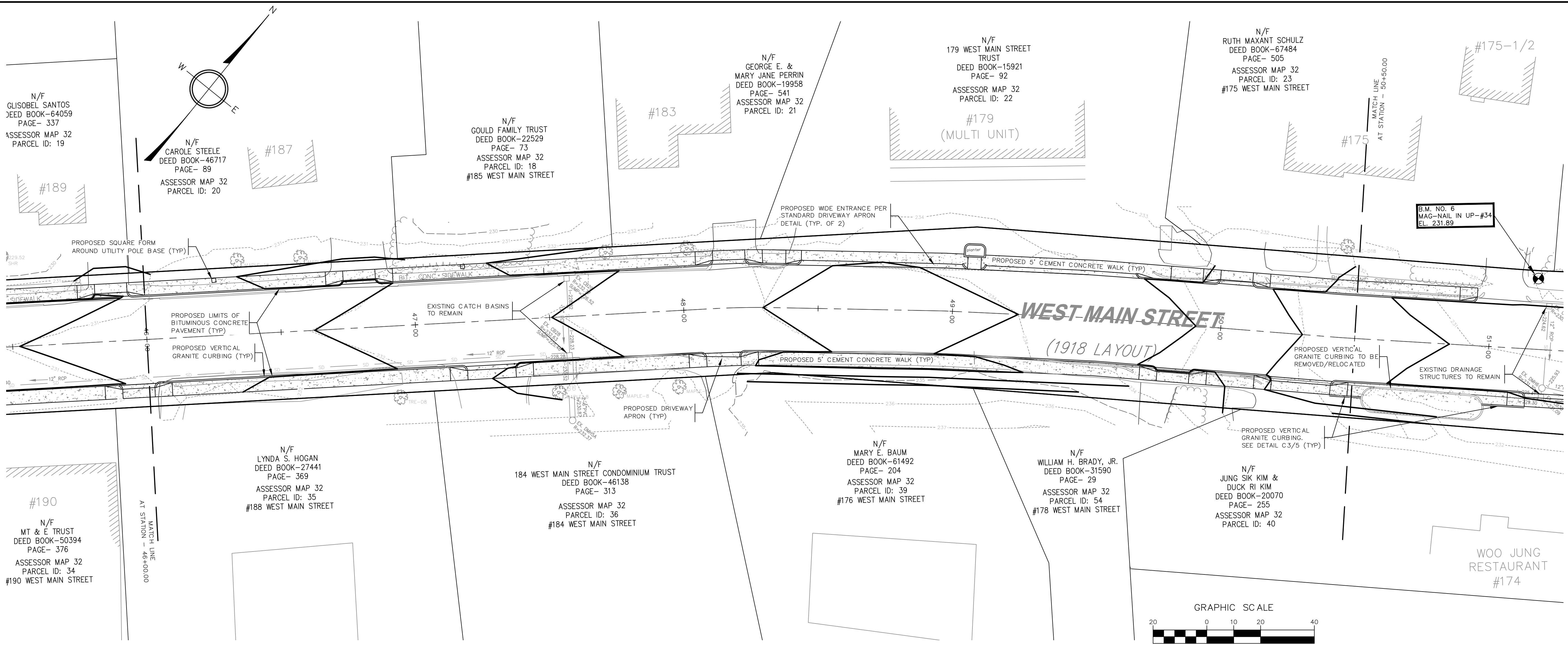
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 AUTHOR:  
 DRAFTER: MCL  
 CHECKED BY: KFB  
 DATE: AUGUST 2021  
 SHEET TITLE:  
 GRADING, DRAINAGE AND  
 PAVING PLAN  
 STA. 26+50 TO 31+00  
 SHEET:

C14

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N/F  
GLISOBEL SANTOS  
DEED BOOK-64059  
PAGE- 337  
ASSESSOR MAP 32  
PARCEL ID: 19

N/F  
CAROLE STEELE  
DEED BOOK-46717  
PAGE- 89  
ASSESSOR MAP 32  
PARCEL ID: 20

N/F  
GOULD FAMILY TRUST  
DEED BOOK-22529  
PAGE- 73  
ASSESSOR MAP 32  
PARCEL ID: 18  
#185 WEST MAIN STREET

N/F  
GEORGE E. &  
MARY JANE PERRIN  
DEED BOOK-19958  
PAGE- 541  
ASSESSOR MAP 32  
PARCEL ID: 21

N/F  
179 WEST MAIN STREET  
TRUST  
DEED BOOK-15921  
PAGE- 92  
ASSESSOR MAP 32  
PARCEL ID: 22

N/F  
RUTH MAXANT SCHULZ  
DEED BOOK-67484  
PAGE- 505  
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PARCEL ID: 23  
#175 WEST MAIN STREET

#190  
N/F  
MT & E TRUST  
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PAGE- 376  
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PARCEL ID: 34  
#190 WEST MAIN STREET

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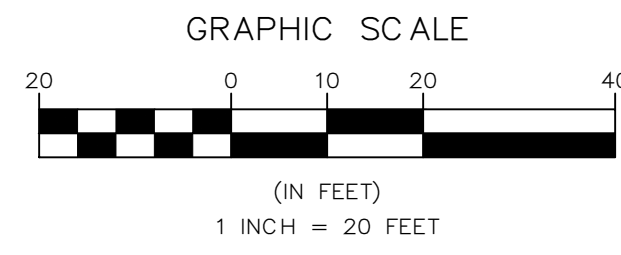
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MARY E. BAUM  
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PAGE- 204  
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PARCEL ID: 39  
#176 WEST MAIN STREET

N/F  
WILLIAM H. BRADY, JR.  
DEED BOOK-31590  
PAGE- 29  
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PARCEL ID: 54  
#178 WEST MAIN STREET

N/F  
JUNG SIK KIM &  
DUCK RI KIM  
DEED BOOK-20070  
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PARCEL ID: 40

WOO JUNG  
RESTAURANT  
#174



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ENGINEER:

Ayer DPW  
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Ayer, Massachusetts

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MARK	DATE	DESCRIPTION
	9/16/21	ADDENDUM #1

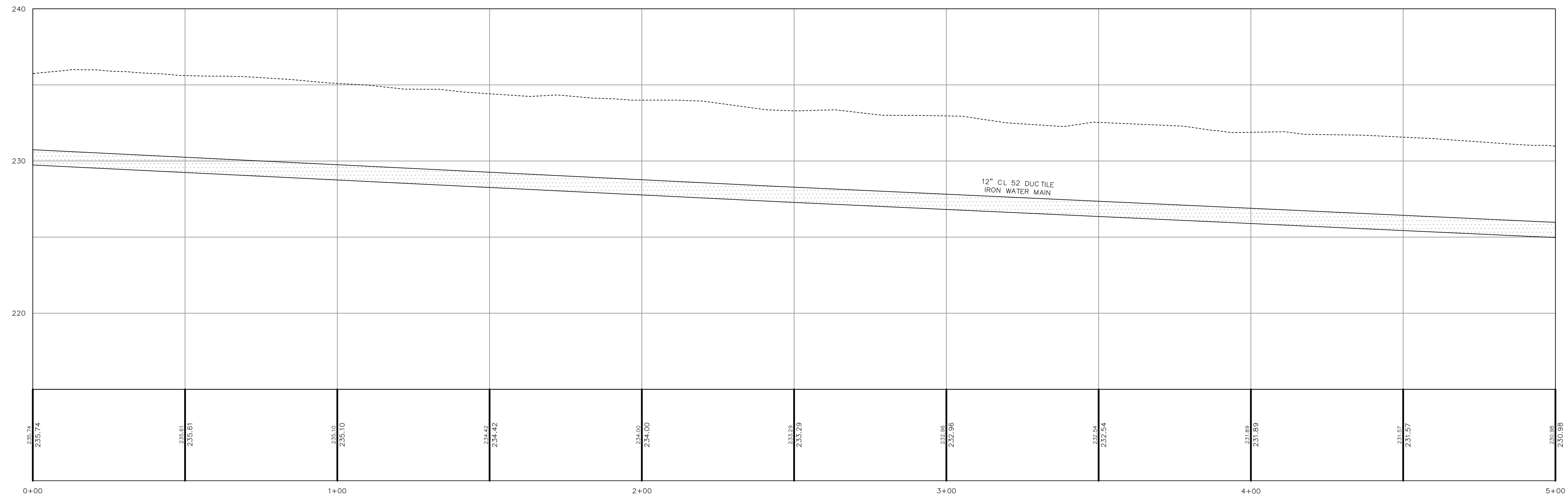
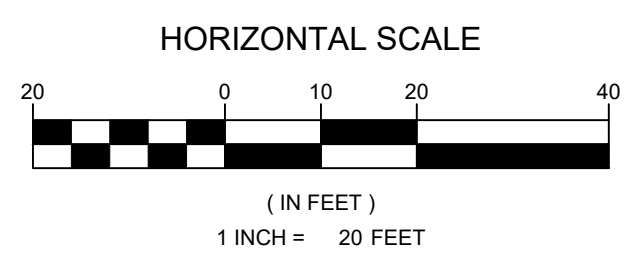
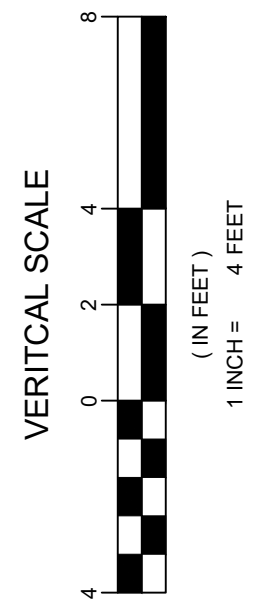
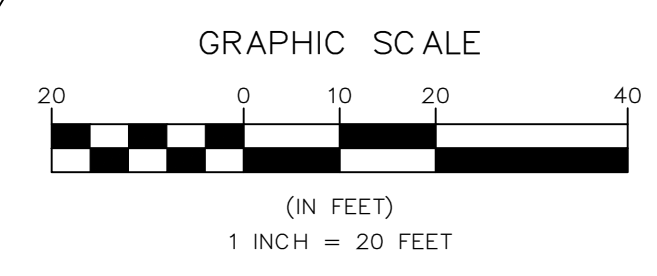
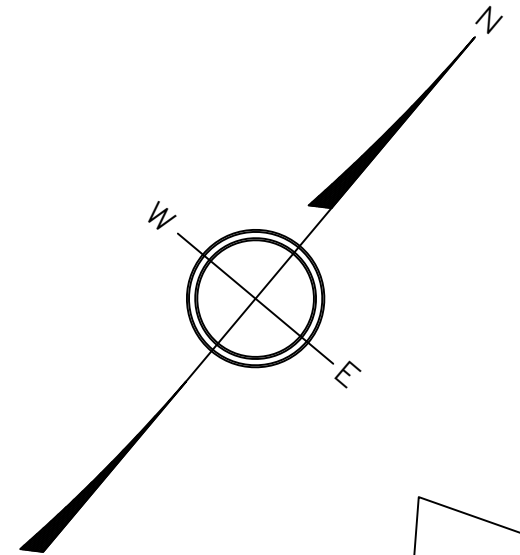
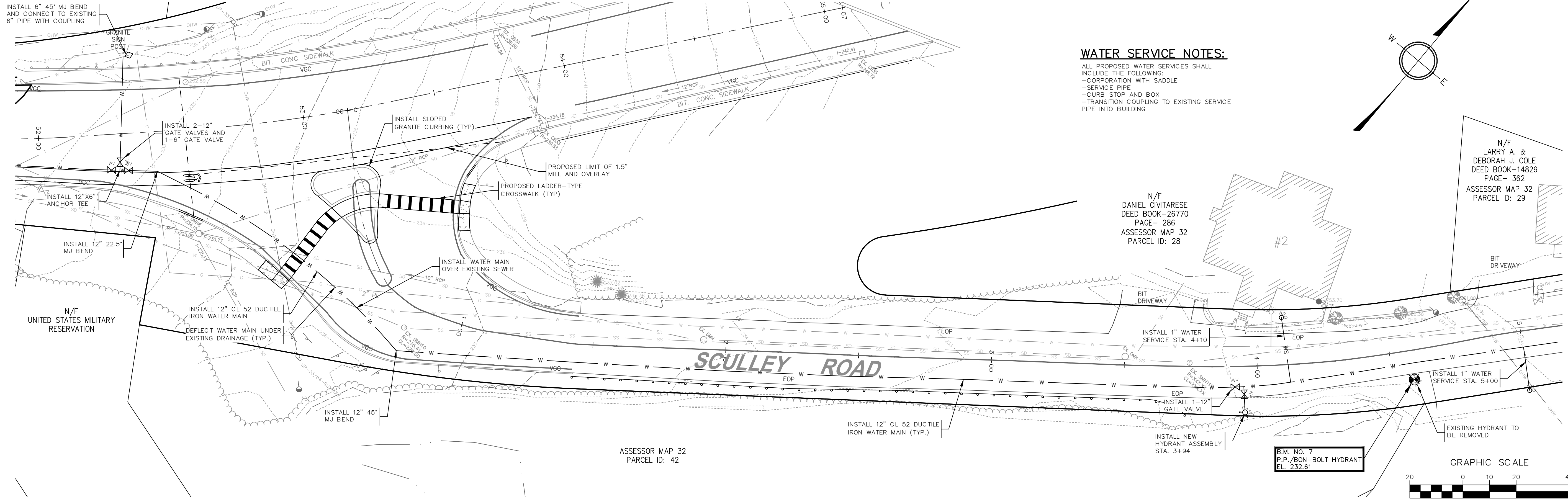
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WORK ORDER NO:  
PROJECT NAME:  
WEST MAIN STREET  
ROADWAY IMPROVEMENTS

AUTHOR:  
DRAFTER: MCL  
CHECKED BY: KFB  
DATE: AUGUST 2021  
SHEET TITLE:  
GRADING, DRAINAGE AND  
PAVING PLAN  
STA. 46+00 TO 50+50

SHEET:

C18

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ROADWAY PROFILE STA. 0+00 TO 5+00

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STATUS:

ENGINEER:



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25 Brook Street  
Ayer, Massachusetts

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MARK	DATE	DESCRIPTION
	9/16/21	ADDENDUM #1

PROJECT NO:

WORK ORDER NO:

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WEST MAIN STREET  
ROADWAY IMPROVEMENTS

AUTHOR:

DRAFTER: MCL

CHECKED BY: KFB

DATE: AUGUST 2021

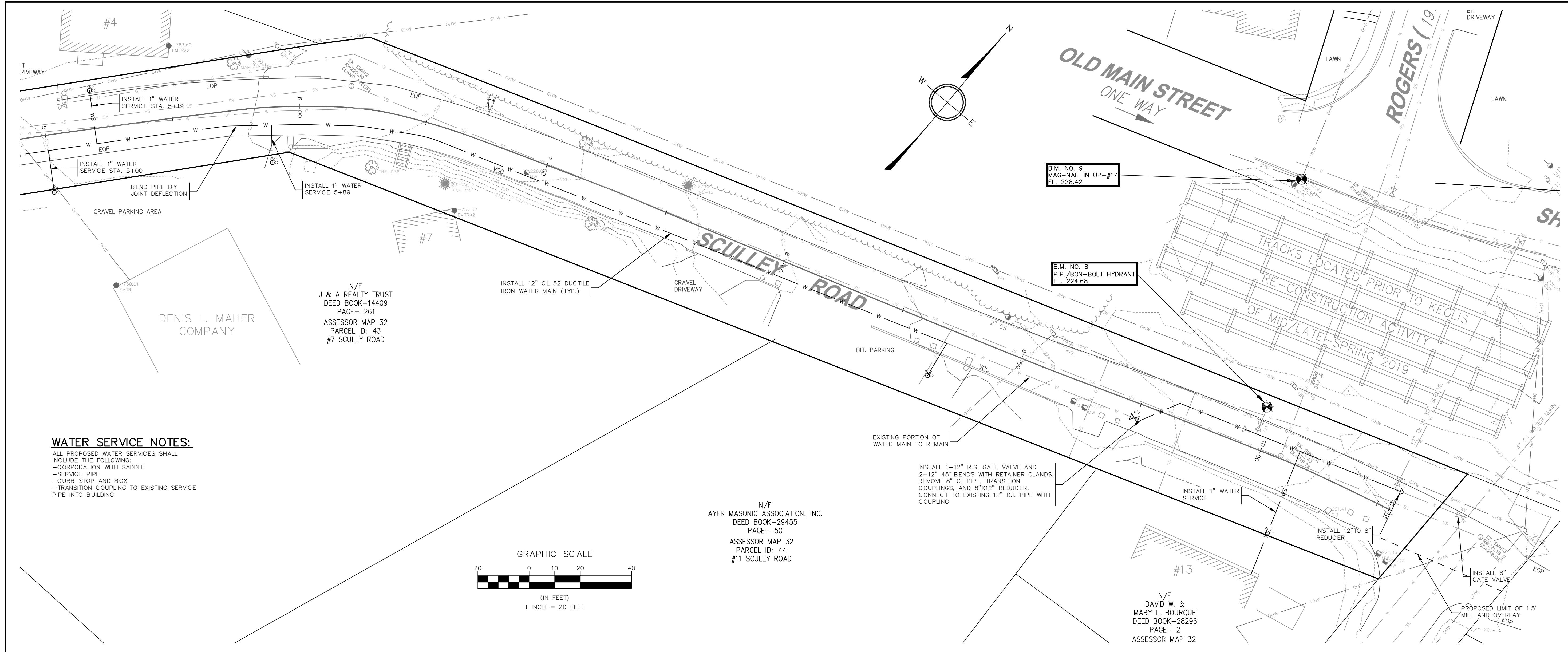
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CONSTRUCTION PLAN AND  
PROFILE SCULLEY ROAD  
STA. 0+00 TO 5+00

SHEET:

**C20**

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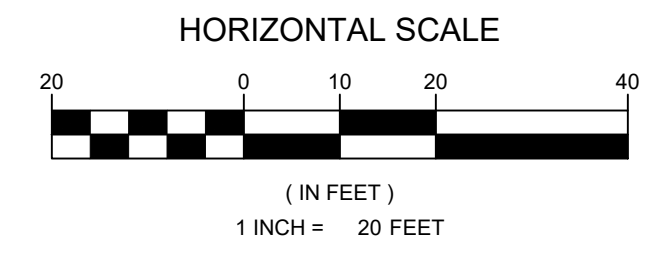
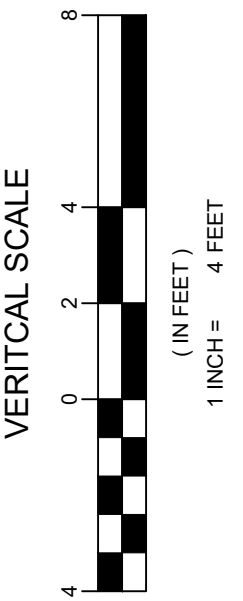
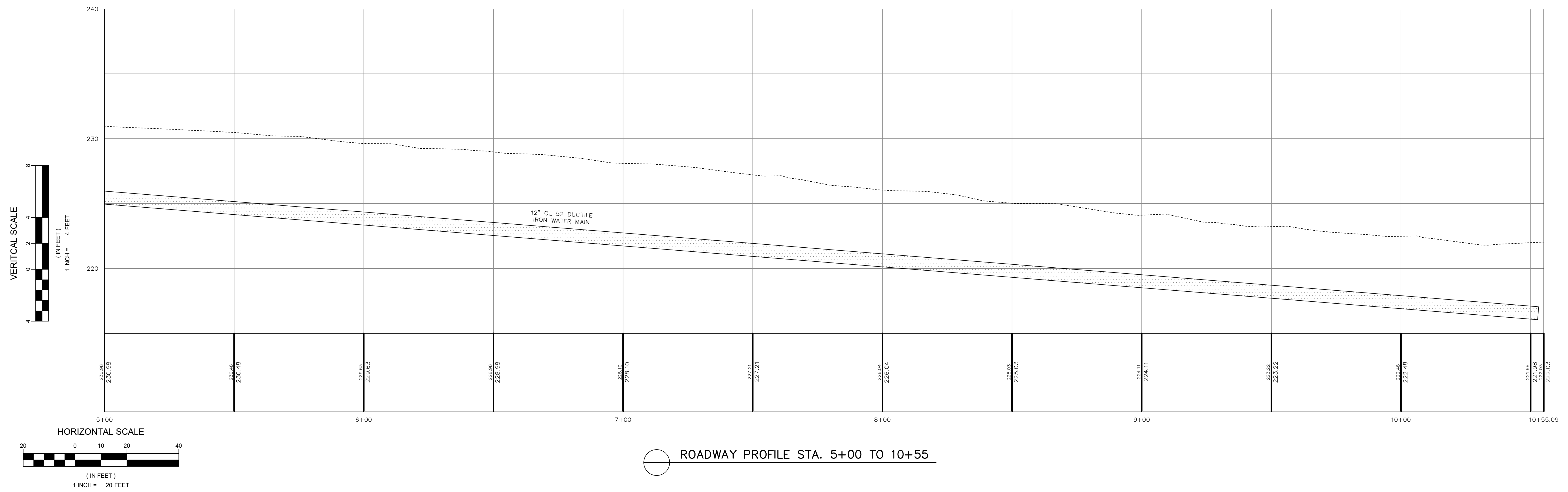
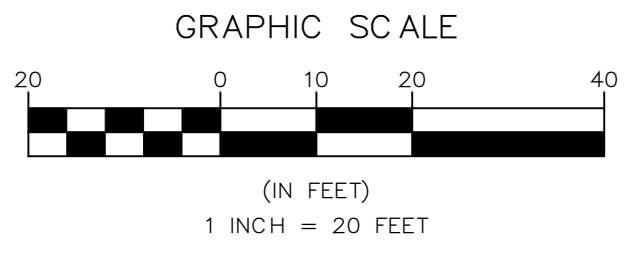


**WATER SERVICE NOTES:**  
 ALL PROPOSED WATER SERVICES SHALL INCLUDE THE FOLLOWING:  
 -CORPORATION WITH SADDLE  
 -SERVICE PIPE  
 -CURB STOP AND BOX  
 -TRANSITION COUPLING TO EXISTING SERVICE PIPE INTO BUILDING

N/F  
 J & A REALTY TRUST  
 DEED BOOK-14409  
 PAGE- Z61  
 ASSESSOR MAP 32  
 PARCEL ID: 43  
 #7 SCULLY ROAD

N/F  
 AYER MASONIC ASSOCIATION, INC.  
 DEED BOOK-29455  
 PAGE- 50  
 ASSESSOR MAP 32  
 PARCEL ID: 44  
 #11 SCULLY ROAD

N/F  
 DAVID W. &  
 MARY L. BOURQUE  
 DEED BOOK-28296  
 PAGE- 2  
 ASSESSOR MAP 32




ROADWAY PROFILE STA. 5+00 TO 10+55

CERTIFICATION:

BID SET  
 ADDENDA 1

STATUS:

ENGINEER:



Ayer DPW  
 25 Brook Street  
 Ayer, Massachusetts

REVISIONS:

MARK	DATE	DESCRIPTION
	9/16/21	ADDENDUM #1

PROJECT NO:

WORK ORDER NO:

PROJECT NAME:  
 WEST MAIN STREET  
 ROADWAY IMPROVEMENTS

AUTHOR:

DRAFTER: MCL

CHECKED BY: KFB

DATE: AUGUST 2021

SHEET TITLE:  
 CONSTRUCTION PLAN AND  
 PROFILE SCULLY ROAD  
 STA. 5+00 TO 10+55

SHEET:

**C21**

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LOCUS MAP:



PROJECT TEAM:

OWNER:

MASS DEVELOPMENT  
33 Andrews Parkway, Devens, MA 01434

ARCHITECT:

ICON ARCHITECTURE  
101 Summer Street, Boston, MA 02110  
617.451.3333

DRAWING LIST	
SHEET NUMBER	SHEET NAME
GENERAL	
G-000	COVER SHEET
G-001	ABBREVIATIONS & GRAPHIC SYMBOLS
ARCHITECTURAL	
A-100	ARCHITECTURAL SITE PLAN
A-101	PHOTOS AND DETAILS
A-102	PROPOSED ELEVATION AND DETAILS
Total Number of Sheets: 5	



# VERBECK GATE MODIFICATIONS

**DEVENS, MA**  
**MASS DEVELOPMENT**

**ISSUE DATE: 08/30/2021**  
**CONSTRUCTION DOCUMENTS**

## ABBREVIATIONS:

L	Angle	G.	Ground	STA.	Station
CL.	Centerline	GA.	Gage	STD.	Standard
O.	Diameter or Round	GALV.	Galvanized	STL.	Steel
#	Pound or Number	GB.	Grab Bar	STOR.	Storage
(E).	Existing	GL.	Glass	STRUCT.	Structural
ACT.	Acoustical Ceiling Tile	GR.	Grade	SUSP.	Suspended
ACST.	Acoustic	GWB.	Gypsum Wall Board	SYMM.	Symmetrical
AD.	Area Drain	GYB.	Gypsum	SV.	Sheet Vinyl
ADJ.	Adjustable	HB.	Hose Bibb	T.	Tread
AGGR.	Aggregate	HC.	Hollow Core	TB.	Towel Bar
ALUM.	Aluminum	HDW.	Hardware	TEL.	Telephone
APPROX.	Approximate	HDWD.	Hardwood	TER.	Terrazzo
ARCH.	Architectural	HM.	Hollow Metal	T&G.	Tongue and Groove
ASB.	Asbestos	HORIZ.	Horizontal	THK.	Thickness
ASPH.	Asphalt	HR.	Hour	TMPD.	Tempered
AT.	Acoustical Tile	HT.	Height	TOC.	Top of Curb
BD.	Board	ID.	Inside Diameter	TOP.	Top of Pavement
BITUM.	Bituminous	IM.	Insulated Metal	TOW.	Top of Wall
BLDG.	Building	INSUL.	Insulation	TPD.	Toilet Paper Dispenser
BLK.	Block	INT.	Interior	TV.	Television
BLKG.	Blocking	JAN.	Janitor	TYP.	Typical
BM.	Beam	JAN. CLO.	Janitor Closet	UNFIN.	Unfinished
B.O.	Bottom	JT.	Joint	UON.	Unless Otherwise Noted
BR.	Bedroom	KIT.	Kitchen	UR.	Urinal
BS.	Brick Shlef	LAB.	Laboratory	V.	Vinyl
CAB.	Cabinet	LAM.	Laminate	VB.	Vinyl Base
CB.	Catch Basin	LAV.	Lavatory	VEP.	Vitreous Enamel Paint
CBB.	Cementitious Backer Board	LKR.	Locker	VERT.	Vertical
CEM.	Cement	LT.	Light	VEST.	Vestibule
CG.	Corner Guard	LT. GA.	Light Gage	W.	West
CI.	Cast Iron	LVT.	Luxury Vinyl Tile	W/.	With
CLG.	Ceiling	MAX.	Maximum	WC.	Water Closet
CL	Centerline	MAU.	Make Up Air RTU	WD.	Wood
CLKG.	Caulking	MC.	Medicine Cabinet	WGL.	Wired Glass
CLO.	Closet	MECH.	Mechanical	W/O	Without
CLR.	Clear	MEMB.	Membrane	WP.	Waterproof
CMU.	Concrete Block	MTL.	Metal	WSC.	Wainscot
CO.	Cased Opening	MFR.	Manufacturer	WT.	Weight
COL.	Column	MH.	Manhole		
CONC.	Concrete	MIN.	Minimum		
CONN.	Connect	MIRR.	Mirror		
CONSTR.	Construction	MISC.	Miscellaneous		
CONT.	Continue	MO.	Masonry Opening		
CORR.	Corrugated	MR.	Moisture Resistant		
C.PT.	Carpet	MTD.	Mounted		
C.SK.	Countersunk	MULL.	Mullion		
C.TOP	Countertop	N.	North		
CTR.	Center	NIC.	Not In Contract		
CT.	Ceramic Tile	NO.	Number		
DBL.	Double	NOM.	Nominal		
DEPT.	Department	NTS.	Not To Scale		
DET.	Detail	OA.	Overall		
DF.	Drinking Fountain	OBS.	Obscure		
DIA.	Diameter	OC.	On Center		
DIM.	Dimension	OD.	Outside Diameter		
DISP.	Dispenser	OD.	Outside Dimension		
DN.	Down	OFF.	Office		
DR. OPNG.	Door Opening	OPNG.	Opening		
DR.	Door	OPP.	Opposite		
DS.	Downspout	PL.	Plate		
DSP.	Dry Standpipe	PLAM.	Plastic Laminate		
DWG.	Drawing	PLAS.	Plaster		
DWGS.	Drawings	PLYWD.	Plywood		
DWR.	Drawer	PNT.	Paint		
E.	East	PR.	Pair		
EA.	Each	PRCST.	Pre-cast		
EJ.	Expansion Joint	PT.	Point		
EL.	Elevation	P.T.	Pressure Treated		
ELEC.	Electric	PTD.	Paper Towel Dispenser		
ELEV.	Elevator	PTDR.	Paper Towel Dispenser & Receptacle		
EMER.	Emergency	PTN.	Partition		
ENCL.	Enclosure	PTR.	Paper Towel Receptacle		
EPB.	Electrical Panelboard	QT.	Quarry Tile		
EQ.	Equal	R.	Radius		
EQUIP.	Equipment	R.	Riser		
ETR.	Existing To Remain	R.	Riser		
EWC.	Electric Water Cooler	R&S.	Clothes Rod & Shelf		
EXIST.	Existing	RD.	Roof Drain		
EXP.	Exposed	REF.	Reference		
EXPAN.	Expansion	REFRIG.	Refrigerator		
EXT.	Exterior	REG.	Register		
FA.	Fire Alarm	REINF.	Reinforced		
FB.	Flat Bar	REQD.	Required		
FD.	Floor Drain	RESIL.	Resilient		
FDTN.	Foundation	RRT.	Radial Rubber Tile		
FE.	Fire Extinguisher	RM.	Room		
FEC.	Fire Extinguisher Cabinet	RO.	Rough Opening		
FHC.	Fire Hose Cabinet	RVS.	Reversed		
FIN.	Finish	RWD.	Redwood		
FL.	Flush	RWL.	Rain Water Leader		
FLASH.	Flashing	S.	South		
FLR.	Floor	SC.	Solid Core		
FLG.	Flooring	SCD.	Seat Cover Dispenser		
FLUOR.	Fluorescent	SCHED.	Schedule		
FOC.	Face of Concrete	SD.	Soap Dispenser		
FOF.	Face of Finish	SECT.	Section		
FOS.	Face of Studs	SH.	Shelf		
FP.	Fireproof	SHR.	Shower		
FR.	Frame	SHT.	Sheet		
FR.	Fire Rated	SIM.	Similar		
FS.	Full Size	SND.	Sanitary Napkin Dispenser		
FT.	Foot or Feet	SNR.	Sanitary Napkin Receptacle		
FTG.	Footing	SPEC.	Specification		
FURG.	Furring	SQ.	Square		
FUT.	Future	SER. S.	Service Sink		
FV.	Flood Vent	SS.	Stainless Steel		

## SYMBOLS

<b>COLUMN LINES</b>	
	1 HR
	2 HR
	3 HR
<b>FIRE RATED WALLS</b>	
	1 / A101 1 / A101
<b>MATCH LINE</b>	
	XXXXXXXXXX XX
<b>TEXT LEADERS</b>	
	8' - 0"
<b>DIMENSION</b>	
<b>BREAK LINE</b>	
	DETAIL # SHEET #
<b>SECTION MARKER - BUILDING</b>	
	DETAIL # SHEET #
<b>SECTION MARKER - WALL</b>	
	DETAIL # SHEET #
<b>SECTION MARKER - DETAIL</b>	
	DETAIL # SHEET #
<b>ELEVATION MARKER - BUILDING</b>	
	DETAIL # SHEET #
<b>ELEVATION MARKER - INTERIOR</b>	
	Name Elevation
<b>LEVEL MARKER</b>	
	XX' - XX'
<b>SPOT ELEVATION MARKER</b>	
	DETAIL # SHEET #
<b>DETAIL KEY</b>	
	101
<b>DOOR TYPE IDENTIFIER</b>	
	101
<b>WINDOW TYPE IDENTIFIER</b>	
	101
<b>LOUVER TYPE IDENTIFIER</b>	
	101
<b>WALL TYPE IDENTIFIER</b>	
	FIXTURE/CASEWORK
	WALL/FLOOR/ROOF ASSEMBLY
	FINISHES
<b>KEYNOTES</b>	
	XX
<b>BATHROOM EQUIPMENT TAG</b>	
	0' 2' 4' 8' 16'
<b>GRAPHIC SCALE</b>	
	1 View Name 1/8" = 1'-0"
<b>TITLE MARK</b>	
<b>NORTH ARROW INDICATOR</b>	
	Room name 101 ROOM # 150 SF
<b>ROOM IDENTIFIERS</b>	
	1 A101
<b>REVISION CLOUD</b>	
	1 A101
<b>DETAIL INDICATOR</b>	

VERBECK GATE  
MODIFICATIONS

DEVENS, MA

MASS DEVELOPMENT

ARCHITECT

**E-ICON**  
ARCHITECTURE

101 SUMMER ST BOSTON MA 02110

CONSULTANT

STAMP

KEY PLAN

MARK	DATE	DESCRIPTION
	08/30/2021	CD SET

PROJECT NUMBER: 219020.5

DRAWN BY: PR

CHECKED BY: PD

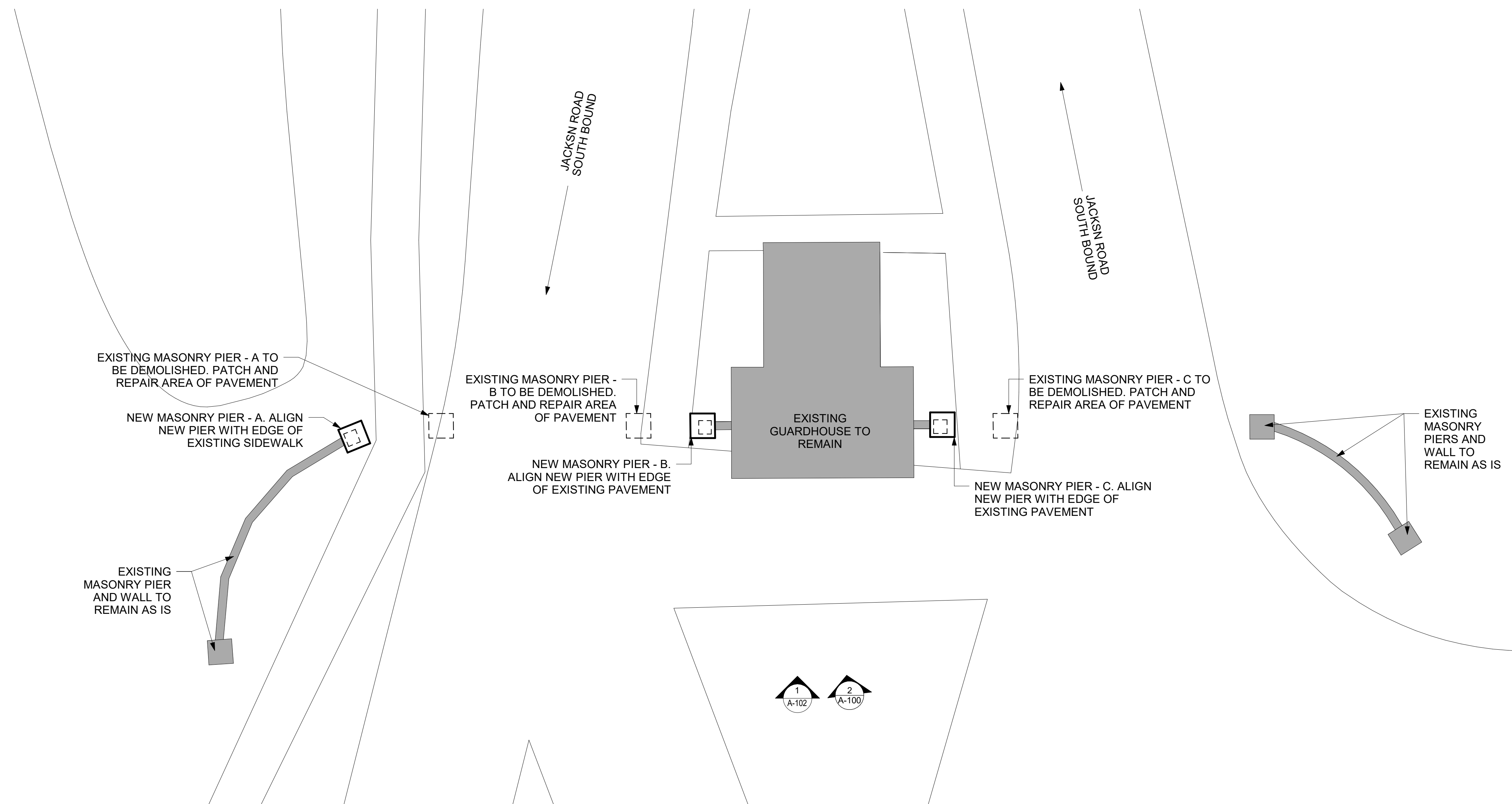
SHEET TITLE

ABBREVIATIONS &  
GRAPHIC SYMBOLS

G-001



2 PHOTOGRAPHIC ELEVATION - EXISTING CONDITIONS (WEST MAIN STREET)



1 SITE PLAN  
1/8" = 1'-0"

VERBECK GATE  
MODIFICATIONS

DEVENS, MA

MASS DEVELOPMENT

ARCHITECT



101 SUMMER ST BOSTON MA 02110

CONSULTANT

STAMP

KEY PLAN

MARK	DATE	CD SET	DESCRIPTION
	08/30/2021		

PROJECT NUMBER: 219020.5

DRAWN BY: PR

CHECKED BY: PD

SHEET TITLE

ARCHITECTURAL  
SITE PLAN

A-100

# VERBECK GATE

DEVENS, MA

ARCHITECT



101 SUMMER ST BOSTON MA 02110

CONSULTANT

STAMP

KEY PLAN

MARK	DATE	DESCRIPTION
<b>PROJECT NUMBER:</b> 219020.5		
<b>DRAWN BY:</b> PR		
<b>CHECKED BY:</b> PD		

PROJECT NUMBER: 219020.5

DRAWN BY: PR

CHECKED BY: PD

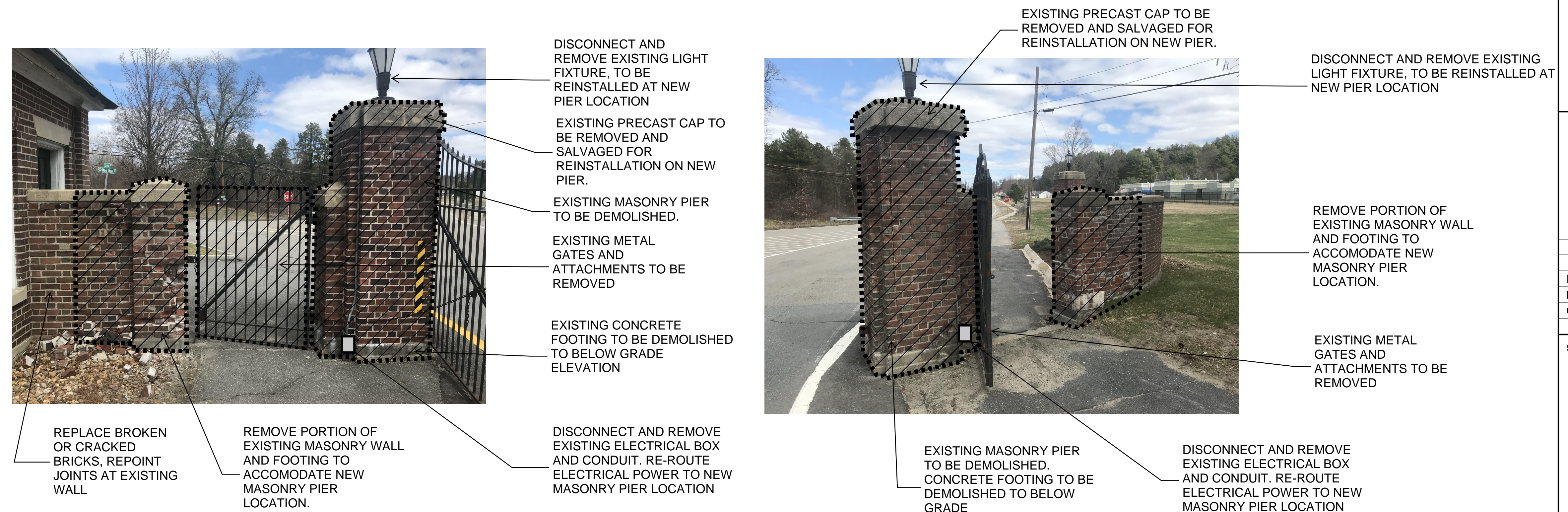
SHEET TITLE

PHOTOS AND DETAILS

A-102



3 PIER C - DEMOLITION



2 PIER B - DEMOLITION

1 PIER A - DEMOLITION

VERBECK GATE  
MODIFICATIONS

DEVENS, MA

MASS DEVELOPMENT

ARCHITECT



101 SUMMER ST BOSTON MA 02110

CONSULTANT

STAMP

KEY PLAN

MARK	DATE	CD SET	DESCRIPTION
	08/30/2021		

PROJECT NUMBER: 219020.5

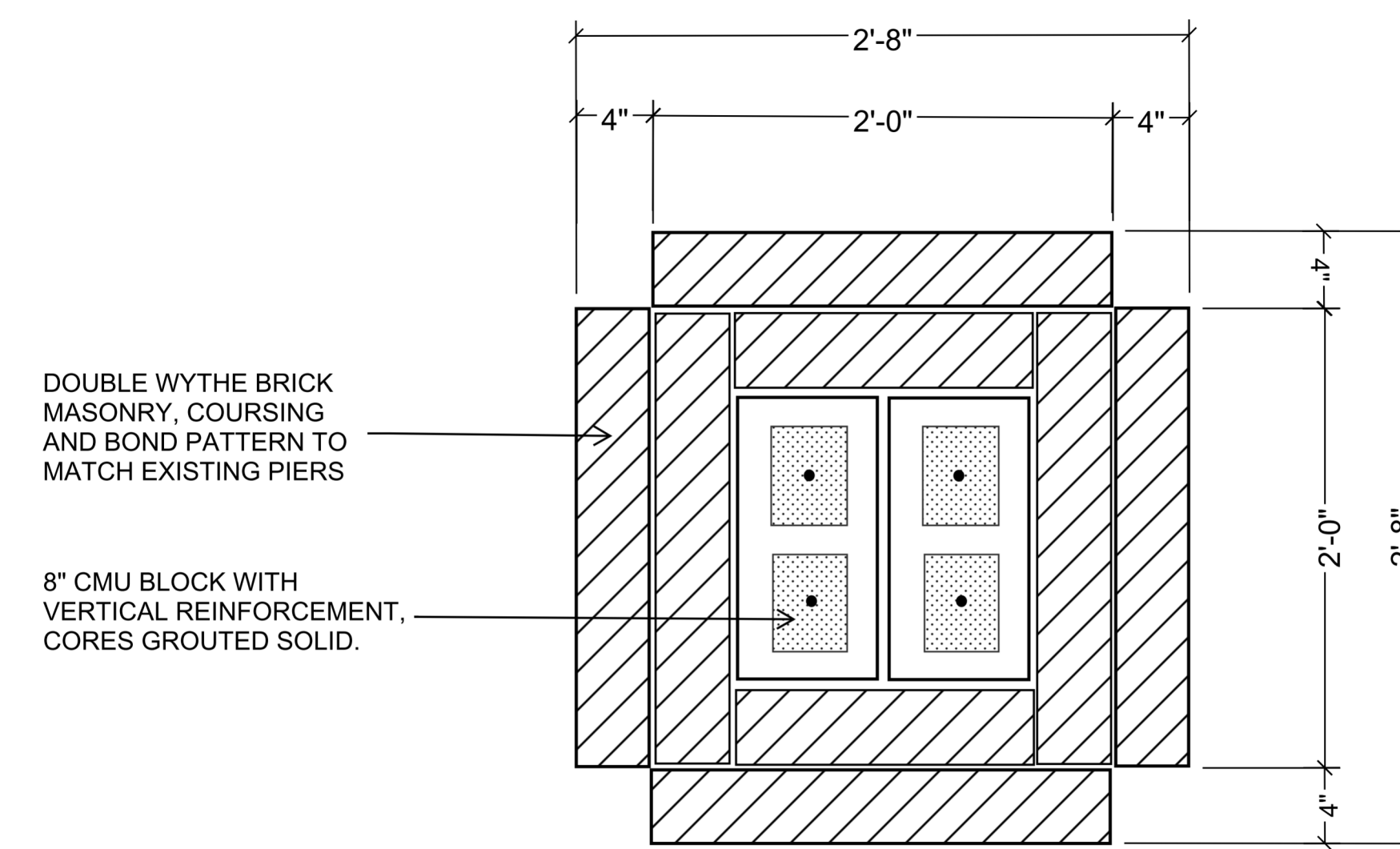
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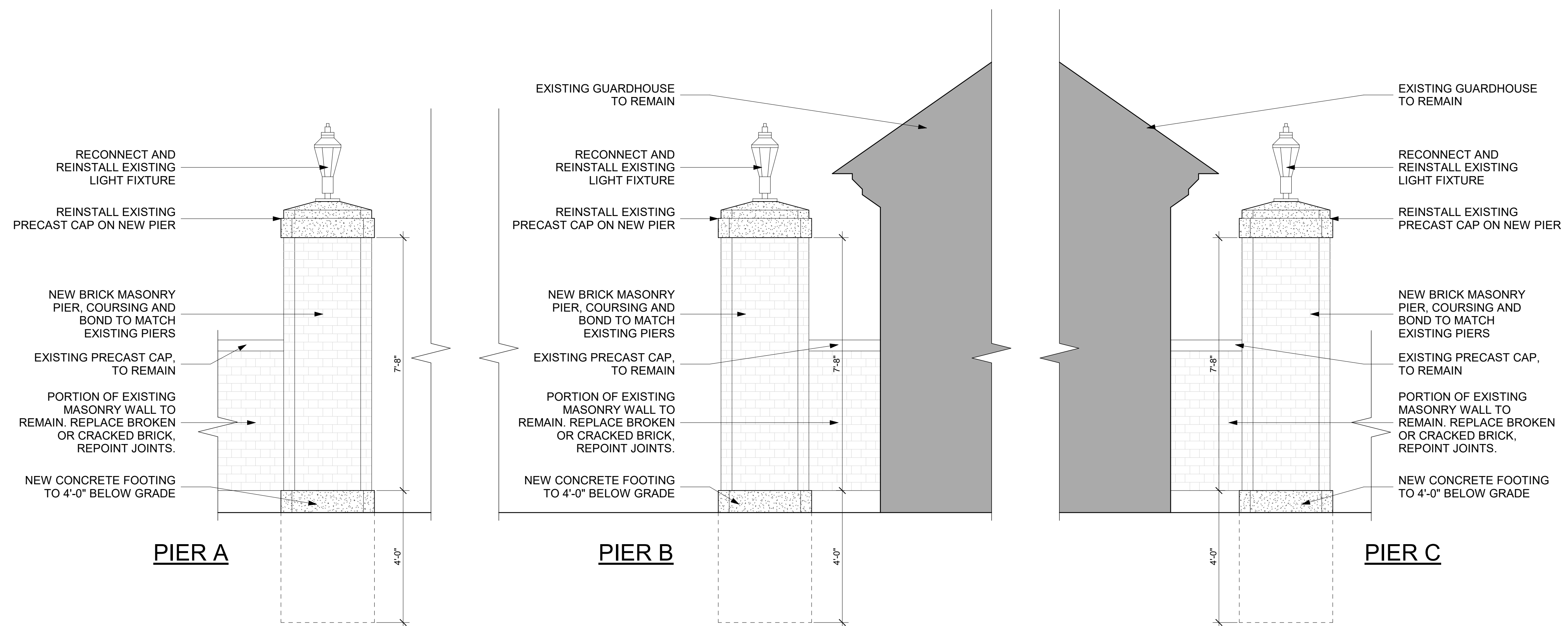
SHEET TITLE

PROPOSED  
ELEVATION AND  
DETAILS

A-102



2 PIER PLAN  
1 1/2" = 1'-0"



1 PROPOSED ELEVATION  
1/2" = 1'-0"

## SECTION 16110 – RACEWAYS

### PART 1 – GENERAL

#### 1.01 INTENT

- A. The Contractor under this Section shall furnish all labor, materials, appliances and equipment necessary for completion of the raceways to be installed for future use.

#### 1.02 SCOPE OF WORK

- A. Furnish all labor, materials, plant, equipment and services necessary for and reasonably incidental to the complete installation of all electrical work specified herein and/or indicated on the drawings, including, but not limited to the following:
  1. Provide new raceways as specified and shown on the drawings.
  2. Arrange for Inspections.

#### 1.03 CODES, ORDINANCES AND INSPECTIONS

- A. All materials and the installation thereof shall conform to the requirements of the Massachusetts State Building Code, Electrical Code, and local laws, rules, regulations, and codes pertaining thereto. Where provisions of the Contract Documents conflict with any codes, rules or regulations, the latter shall govern. Where the Contract requirements are in excess of applicable codes, rules or regulations, the Contract provisions shall govern unless the Engineer rules otherwise.
- B. The Contractor shall comply with the Local Code Enforcement Officials' instructions at no additional cost to the Owner.

#### 1.04 QUALITY ASSURANCE

- A. Equality of materials or articles other than those named or described in this Section will be determined in accordance with the provisions of the General Requirements.

#### 1.05 PRODUCTS

- A. All materials used shall be U.S. made, with the exception of items specifically noted otherwise, new, full weight, and first class in every respect, without defects, and designed to function properly in that portion of the work for which they are intended, and with the same brand of manufacturers for each class of material or equipment. Electrical materials and equipment of types for which there are Underwriters Laboratories standard requirements, listings, or labels shall conform to their requirements and be so labeled.

#### 1.06 SUBMITTALS

- A. Before ordering materials shipped to the job, the Contractor shall submit to the Engineer catalogue cuts, manufacturers' data sheets, and Shop Drawings, giving all details, dimensions, capacities, etc. of all materials to be furnished.
- B. The review of Shop Drawings by the Engineer shall not relieve the Contractor from any obligation to perform the work strictly in accordance with the Contract documents. The responsibility for errors in Shop Drawings shall remain with the Contractor.
- C. In the event that materials are being delivered to or installed on the job for which Shop Drawings or samples have not been approved and/or which are not in accordance with the Specifications, the Contractor will be required to remove such materials and substitute approved materials at his own expense and as directed by the Engineer.

## 1.07 PERMITS, FEES AND INSPECTIONS

- A. The Contractor shall secure all permits and pay all fees required for his work. He shall be required to secure all other permits and pay all other fees and charges incidental to the proper carrying out of the Contract. He is to assume all responsibility regarding the observance of the rules and regulations so far as they relate to his part of the work.
- B. The Contractor shall arrange and pay for all required inspections of his work.

## 1.08 PRODUCT HANDLING

- A. The Contractor shall provide for the delivery of all his materials and fixtures to the site when required, so as to carry on his work efficiently and to avoid delaying his work and that of other trades.

## PART 2 - MATERIALS

### 2.01 RACEWAYS

- A. Rigid galvanized steel or intermediate steel conduit shall be used for all raceway elbows 3" size and larger. Conduit shall comply with the latest applicable Federal Specifications.
- B. Raceways for site power and light shall be Schedule 40 PVC (schedule 80 PVC under roadways), with solvent welded fittings, or Type EB where shown to be encased in concrete. Use steel sweeps on conduit 3" and larger.

## PART 3 – INSTALLATION

### 3.01 GENERAL INSTALLATION REQUIREMENTS

- A. The Contractor shall verify all measurements and shall be responsible for the correctness of same. No allowance will be made for differences between actual measurements and those shown on plans.

### 3.02 CONDUIT AND FITTINGS

- A. All conduit shall be installed so as to provide the straightest possible run with not more than the equivalent of three 90° bends in a single run. Where more bends are necessary, the Contractor shall provide suitable pull boxes.
- B. Conduit shall be fished and cleaned and dry before pulling wires and shall be suitably protected against entrance of dirt and moisture during construction.
- C. Ends of all conduits shall be reamed and all joints made waterproof.

END OF SECTION

## **Devens Soil Management Policy**

The following represents the policy of the Massachusetts Development Finance Agency (“MassDevelopment” or the “Agency”), with regard to the disturbance, excavation, movement and/or removal of soils located in the Devens Regional Enterprise Zone (“Devens”).

MassDevelopment, pursuant to Chapter 498 of the Acts of 1993, has been designated as the public agency responsible for the redevelopment, reuse, and operation of Devens.

Whereas, Devens is a former active military installation, it is possible that unexploded ordnance (“UXO”) or Munitions of Explosive Concern (“MEC”) and environmental contaminants may exist and/or be encountered at Devens. With this policy, MassDevelopment seeks to reduce any risk to human health and safety and the environment.

Until amended or rescinded, it shall be the policy of the Agency that:

1. Prior to commencing any intrusive earth work within Devens (due diligence, construction or otherwise) all personnel to be on site shall view a UXO/MEC video briefing provided by MassDevelopment. This video is intended to instruct on-site personnel as to how to visually recognize UXO/MEC if found during construction activities and to provide instructions on what to do if potential/suspected UXO/MEC is observed.

2. To the extent reasonably practicable, no soil shall leave any construction site at Devens. Construction sites at Devens should be “balanced”, i.e., engineered such that all soils remain on the development site and result in no excess soil.

3. In the event that excess soils must be removed from a development site, the following protocol shall apply:

(a) Excess soils may be transported to another suitable location within Devens, provided however, that:

i. the soils must be restricted for use only at a commercial site;

ii. there is written documentation evidencing the consent and approval of the party agreeing to accept the soils for a specific use and the use, location and disposition of the soils shall be approved in writing by MassDevelopment;

iii. chemical testing of soils to be transported must be performed in conformity with the soil management plan developed by Haley and Aldrich (to be provided by MassDevelopment upon request) and any site specific



requirements imposed by the Massachusetts Department of Environmental Protection (“MA DEP”). The MA DEP must review and approve the results of the soils tests prior to the soils being transported;

iv. upon approval of soil test results by the MA DEP, the owner of the soils shall request that MassDevelopment provide written approval for the soils to be transported; and

v. any relocation of soils shall be compliant with all applicable DEC regulations and bylaws.

(b) If there is no suitable location on Devens to relocate the soils, the soils may be removed to a location outside of Devens, provided however, that:

i. the requirements of paragraphs 3(a)(i-v) shall apply; and

ii. all soils to be relocated outside of Devens shall be passed through a 1” diameter screen under the supervision of qualified personnel;

iii. all tailings (i.e. debris/matter not passing through the screen) shall be utilized on site; and

iv. if UXO/MEC is found in the tailings (or elsewhere), operations in the vicinity of the found item shall immediately cease and MassDevelopment and State Police shall be notified by the contractor.

***(State Police phone #:978-772-7200)***

4. In the event that areas of suspected environmental contamination (i.e. underground storage tanks, foreign materials, substances, etc.) are found, operations in the area in the vicinity of the suspected contamination shall cease and the contractor shall immediately notify MassDevelopment

***(Devens Environmental Manager: phone # 978-784-2917)***

***or***

***(Devens EVP: phone # 978-784-2929)***

MassDevelopment shall work with its environmental consultants and MA DEP and/or EPA to promptly agree upon a plan to temporarily relocate the foreign materials, if possible, in order to permit work on the site continue while a permanent disposal/remediation plan is established.

Please note that additional soil management policies are in force at certain specific areas in Devens. Contact the Devens Environmental Manager for details.

## **DEVENS UXO PROTOCOL AND PROCEDURES**

A. DEVENS UXO PROTOCOL AND PROCEDURES – Prior to performing any intrusive soil work, all personnel on site must view an instructional video describing the types of unexploded ordnance (“UXO”) which could be encountered and providing instruction of the procedures to be followed if a potential UXO item is encountered. The Contractor is responsible for coordinating viewing of the video by all personnel (both contractor and sub-contractors) who will be excavating (either by machine or hand tools), will be working within an excavated area or who will be overseeing or supervising either. Arrangements can be made for viewing of the instructional video by contacting the Devens Fire Department (978-772-4600) located at 182 Jackson Road, Devens, MA. Contact Fire Department to schedule viewing as soon as possible to avoid any delays in Contractor’s proposed construction schedule.

1) If ordnance is found or suspected, Contractor shall follow the following procedures:

**I. DO NOT TOUCH**

**II. STOP ALL OPERATIONS IN THE AREA OF THE ITEM**

**III. SHUT OFF ALL EQUIPMENT IN THE AREA OF THE ITEM**

**IV. EVACUATE THE AREA**

**V. CALL DEVENS DISPATCH @ 978-772-7200**

2) Dispatch will notify the appropriate emergency and public safety personnel including notification of the Army UXO response coordinator.

3) State Police, in conjunction with the Devens Fire Chief, and the U.S. Army will determine the course of action to be followed regarding the relocating, removing and/or destroying of found UXO upon further investigation of the item.

4) The Contractor will be notified when personnel can return to the area and/or when and where operation of equipment can resume.

5) The following disclosure and notification is provided by Owner in documentation allowing access to and ground related work to be performed at Devens. In this context, the “Licensee” is the party to be performing the work and the “Licensor” Owner as the owner of the property.

“Licensee acknowledges that Devens is the site of a former active military installation, and that there is a possibility that unexploded ordnance (UXO) may be encountered during activities licensed by this Agreement. Specifically, the Deed pursuant to which the United States Army conveyed

Devens to Licensor, states that “The [Army] completed a comprehensive records search and, based on that search, undertook and completed statistical and physical testing of areas on Devens where the existence of unexploded ordnance (“UXO”) was considered to be present. Based upon said search and testing, the Army represents that, to the best of its knowledge, no UXO is currently present on [Devens]. The [Army] and [Licensor] acknowledge that, due to the former use of [Devens] as an active military installation, and notwithstanding the above –referenced records search and testing, UXO may exist on Devens. Upon due notice, the [Army] agrees to remove any such remaining UXO discovered on [Devens], as required under applicable law and regulation, as expeditiously as reasonable and practicable, subject to the availability of funds.” Licensee acknowledges and agrees that: (1) its right of entry is subject to the Army’s disclosure; (2) UXO have in fact been identified at Devens subsequent to the Army’s testing; (3) Licensee will take appropriate precautions as it deems necessary to be alert to the possibility of UXO; (4) neither Licensee nor its employees, agents, or contractors will touch or otherwise disturb UXO or suspected UXO; and (5) Licensee will cooperate with Licensor with respect to issues relating to UXO or suspected UXO. Without limiting the generality of the foregoing, if Licensee identifies an object that it suspects is UXO, it will immediately stop work and alert Licensor. Licensor will promptly alert the Army or other authorities and ask them to take appropriate further actions. Licensee agrees that any UXO is the responsibility of the Army (not Licensor), and Licensee agrees to follow whatever precautions or other actions are recommended by the Army. Licensee understands that activities authorized under this Agreement may be interrupted, impeded, delayed or prohibited by the Army as a result of the presence or suspected presence of UXO. Notwithstanding, the obligations of Licensee and the Army as specified in this Agreement, Licensee also agrees to cooperate with Licensor with respect to actions Licensor determines are necessary with respect to UXO at the Licensed Premises while this Agreement is in effect. Licensee shall not conduct any intrusive soil work on the Licensed Premises without first viewing Licensor’s instructional video on UXO.