

ADDENDUM #1
TUNNEL MANHOLE
REHABILITATION F/Y 24-1
CONTRACT #2024-22
REGIONAL WATER RESOURCE AGENCY

DATE: October 28, 2024

The attention of persons and businesses bidding on this project is called to the following change in the drawings and/or specifications and/or bid documents:

The written statements of clarification, interpretation or corrections hereby modify the bidding documents by addition, deletions, or corrections and shall become a legal and binding part of the Contract Documents for this project. Bidders shall acknowledge receipt of the addendum by inserting its number and date in the Proposal Form. Failure to do so may subject the bidder to disqualifications.

- 1. Specifications require a minimum thickness of 250 mils. Due to the depth of these structures, hydrostatic pressure varies greatly at the bottom of the manhole compared to the top. Should coating thickness vary with depth instead of one uniform thickness? Also, should energy dissipation baffles be coated thicker due to continuous impacts from influent flows?**

RWRA will require uniform coating thickness throughout structure of whichever is greater between the two:

1. 250 mils
2. Manufacturer recommended thickness at full depth of structure

If Contractor is proposing an “or equal” product, Contractor will be responsible for applying thickness to manufacturer requirements, but in no case shall be less than 250 mils, and shall remain uniform throughout structure.

Energy dissipation baffles are not required to be coated any thicker than other parts of structure.

- 2. While filming the provided videos, was flow bypassed in those tunnel segments?**

Flow was not bypassed in the provided videos, these were also taken during a time of dry weather.

3. **Plans call for flowable fill to be used for all backfill of structure after removal of cone. Can RWRA provide depths of cone to help quantify amount of flowable fill required?**

RWRA has not provided an estimated quantity of flowable fill because excavation limits can greatly differ depending on the Contractor's methods. However, RWRA can provide the estimated depth of brick cone structure for each of these structures. Contractor to verify before ordering of any materials.

Structure #	Location	Estimated Brick Cone Depth
BASE BID: #3811	2 nd & Dublin	4'
BASE BID: #1234	Parrish & Hathaway	9.5'
BASE BID: #3330	12 th & Independence	7'
BASE BID: #789	6 th & Center	6'
ADD ALT #1: #3827	Dublin & Ohio	7'

4. **Is it possible to extend the 45 day closure limit for each work zone?**

The closure limit per structure has been extended to 60 days from initial street closure to street reopening.

5. **Can RWRA provide more information regarding the system around the work structures to assist in developing bypass plans?**

RWRA has created a new set of maps for each structure that includes upstream and down stream tunnel structures, as well as depths, lengths, slopes, etc. of incoming pipes. These maps are included as an appendix to this Addendum #1. All information provided on these maps are for reference purposes only. Contractor shall verify all information.

6. **Can RWRA provide slopes of the pipes to be bypassed?**

RWRA has created a new set of maps for each structure that includes upstream and down stream tunnel structures, as well as depths, lengths, slopes, etc. of incoming lines. These maps are included as an appendix to this Addendum #1. All information provided on these maps are for reference purposes only. Contractor shall verify all information.

7. **What is DGA?**

DGA is Dense Graded Aggregate, to be used in pavement buildup as required by plans.

8. **How small are the chambers within the structure?**

Dimensions vary from structure to structure. RWRA recommends bidders study the drawings included in Appendix B of the bid plans to determine dimensions.

9. Is RWRA expecting to award multiple contracts for different parts of work, or one contract for the work as a whole?

RWRA will award the contract to one prime Contractor. The awarded Contractor may then utilize subcontractors to perform different parts of work, but RWRA will only enter into contract with one bidder.

10. How far down into the tunnel should the rehabilitation coating extend?

See Section 0059, 3.09.A of project specifications...

“The coating will not be required in the bottom of the manhole trough, coating down to the dry weather flow line is acceptable.”

Start and end rehabilitation coating according to any manufacturer's recommendations.

11. Are the newly constructed walls also required to be coated with rehabilitation coating?

No. Only existing structure must be rehabilitated. All new concrete shall be treated with XYPEX ADMIX C-1000 (DYE) or approved equal according to plans and details. Joint between existing and new structure shall be sealed according to plans and specifications. Start and end rehabilitation coating according to any manufacturer's recommendations.

12. Will RWRA consider accepting other rehabilitation materials?

RWRA will consider “or equal” alternatives. Bidder must submit documentation on materials to RWRA for consideration that show proposed products meet required specifications.

13. Does RWRA have any information on other utilities in work areas that would have to be worked around and/or potentially moved?

RWRA has called in a BUD request for a 15’ radius around all structures. RWRA does not have the information at this time, but will send information in a second addendum as soon as information is received.

14. Can Contractor submit an alternative plan for construction of new walls?

Contractor may submit alternate plan for review and approval by RWRA. RWRA will not design an alternate plan. RWRA will review only. Contractor still responsible for design. RWRA may require Contractor have alternate plan signed and approved by a third party licensed Structural Engineer (at Contractor’s cost), depending on scope of change.

- 15. Structure is severely deteriorated and going to require extensive cleaning/prep to line it properly. We will need a vac truck to help contain the debris. Is RWRA going to have any tolerances for debris if the Contractor can't completely block flow to prevent debris from going downstream?**

Contractor shall make their best effort to capture and remove debris originating from cleaning and surface preparation.

- 16. Is there any way of picking up the flow up stream to prevent the need to have bypassing internally?**

RWRA has created a new set of maps for each structure that includes upstream and down stream tunnel structures, as well as depths, lengths, slopes, etc. of incoming lines. These maps are included as an appendix to this Addendum #1. All information provided on these maps are for reference purposes only. Contractor shall verify all information.

- 17. Casting access, what are the clear opening dimensions of the new frame being installed? The bigger the better in this scenario.**

Per details provided in plans, the standard circular manhole frame has a clear opening of 21". The new manhole cap to be constructed will include two manhole frames to provide access to each side of baffle wall. Also, see question #13. The newly constructed walls are not required to be coated, so work may be able to be completed prior to installation of new lid, therefore not requiring access through the 21" opening. However, RWRA will not stipulate Contractor's work methods.

If Contractor considers installing a larger diameter manhole frame to assist in work access, Contractor may submit alternate plan for review and approval by RWRA. An example of a larger diameter manhole frame that RWRA currently utilizes is included in the appendix of this Addendum. Contractor still responsible for having precast manufacturer/Engineer approve changes to precast cap structure. Contractor responsible for material, work and any other costs associated with changes to manhole cap, frame and lid.

- 18. Spec calls for holiday testing, structure is 40' deep, our holiday testing equipment only comes with a 25' ground cable so we could only perform so much of the structure, need some clarity on it.**

Contractor is responsible for holiday testing all rehabilitated areas as required by the parameters set forth in Section 0059.3.12.K. If Contractor does not have equipment capable of performing testing on all areas, Contractor may acquire another subcontractor

with adequate equipment to perform third party testing, Contractor may rent adequate equipment, or Contractor may acquire adequate equipment.

19. When is the last day to submit questions prior to bid opening?

See Article 7 – Interpretations and Addenda of the Instructions to Bidders section of the project specifications... *“Questions received less than seven days prior to the date of opening of Bids may not be answered.”*

RWRA will make attempt to answer questions submitted after this deadline through an official Addendum, but is not responsible if question cannot be addressed if submitted past this deadline.

20. Will RWRA consider Perpretucrete Microsilicate Mortar and Duraplate 6000 as “or equal” products?

RWRA will accept the proposal of these materials, used in conjunction, as submitted 10/23/2024. This does not constitute approval of these materials on a standalone basis. If used in combination with products other than the lining system specified as per 10/23/2024 package, products shall be submitted for separate approval.



Downstream Structure #3827
(located at Dublin & Ohio)
Depth: 43.33'
1143' from #3811 to #3827

Upstream Structure #3818
Depth: 7.58'
12" VCP flows south
from #3818 to #3811
INV: 392.89

12" VCP from #3818
TO #3811
US INV: 392.89
DS INV: 387.51
LENGTH: 339.8'

Structure #3811 to be
rehabilitated.

36" RCP from #3812
TO #3811
US INV: 383.48
DS INV: 381.81
LENGTH: 21.5'

Upstream Structure #3812
Depth: 14.58'
36" RCP flows north
from #3812 to #3811
INV: 383.48

Upstream tunnel
structure not shown.

MH #3811



DUBLIN LN

2ND ST

HALE AVE

1ST ST

626.6

236.1

8480 : 0

3818 : 7.58

333.8

1143.1

9.736

3811 : 40.08

3812 : 14.58

3813 : 0

3280 : 14.83

441.15

439.1

3814 : 6

359.28

4179.9

210.4

3816 : 4.67

260.2

3817 : 5.67

199.5

1705

1701

1711

1717

1721

1727

1733

1739

100

104

110

114

116

115

118

122

1807

1801

1805

1819

1823

1821

1825

1735

1705

1750

95

101

103

105

107

109

111

113

1633

1820



Downstream Structure #642
(not shown)
Depth: 47.5'
1,334' from #1234 to #642
located at 8th & Hathaway
(across RR tracks)

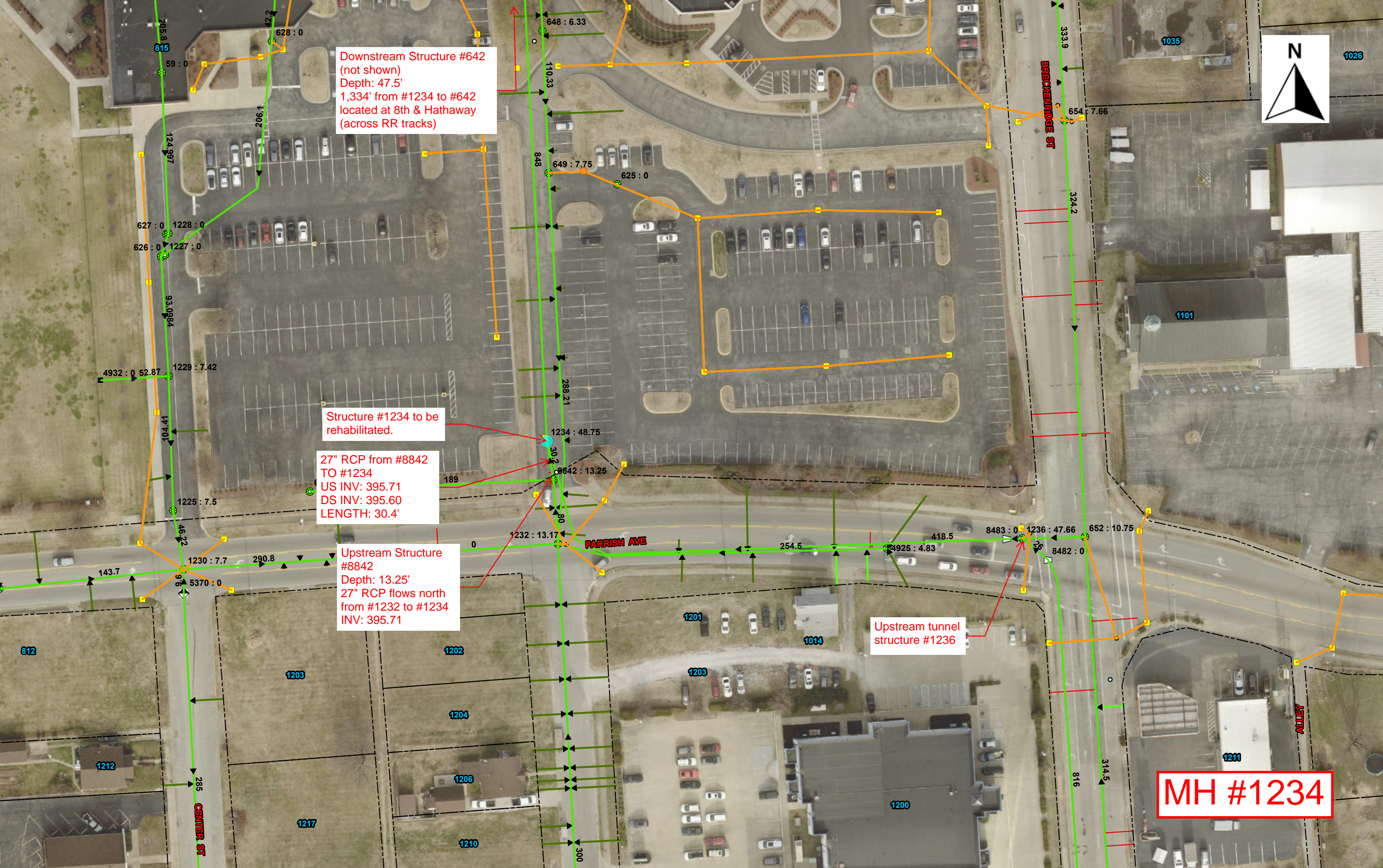
Structure #1234 to be
rehabilitated.

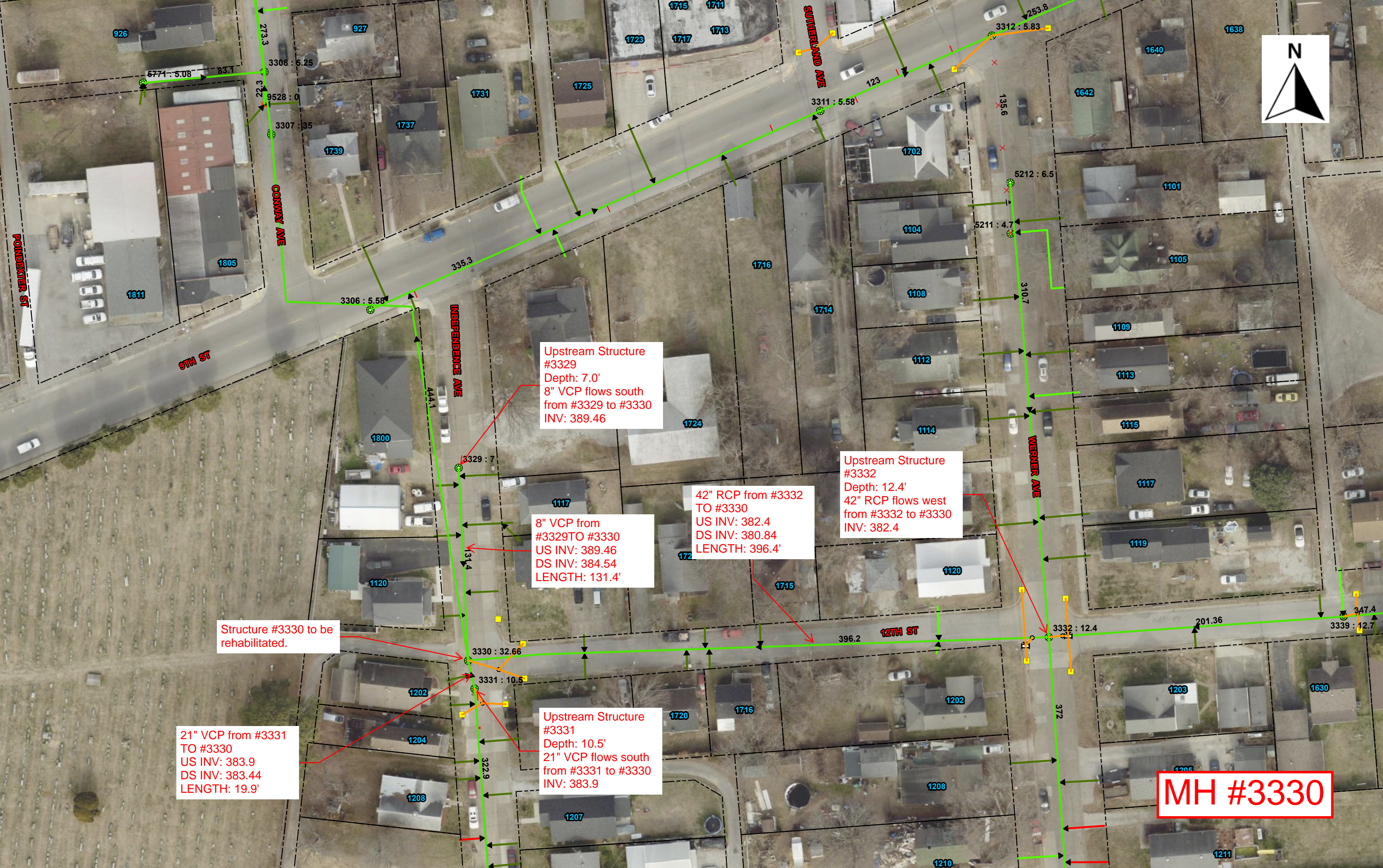
27" RCP from #8842
TO #1234
US INV: 395.71
DS INV: 395.60
LENGTH: 30.4'

Upstream Structure
#8842
Depth: 13.25'
27" RCP flows north
from #1232 to #1234
INV: 395.71

Upstream tunnel
structure #1236

MH #1234





Upstream Structure #3329
Depth: 7.0'
8" VCP flows south from #3329 to #3330
INV: 389.46

8" VCP from #3329 TO #3330
US INV: 389.46
DS INV: 384.54
LENGTH: 131.4'

42" RCP from #3332 TO #3330
US INV: 382.4
DS INV: 380.84
LENGTH: 396.4'

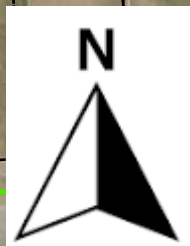
Upstream Structure #3332
Depth: 12.4'
42" RCP flows west from #3332 to #3330
INV: 382.4

Structure #3330 to be rehabilitated.

21" VCP from #3331 TO #3330
US INV: 383.9
DS INV: 383.44
LENGTH: 19.9'

Upstream Structure #3331
Depth: 10.5'
21" VCP flows south from #3331 to #3330
INV: 383.9

MH #3330



Downstream Structure #790
Depth: 40.83'
480' from #789 to #790

Upstream Structure #785
Depth: 5.5'
8" VCP flows south
from #785 to #789
INV: 396.17

8" VCP from #785 TO #789
US INV: 396.17
DS INV: 388.84
LENGTH: 229.7

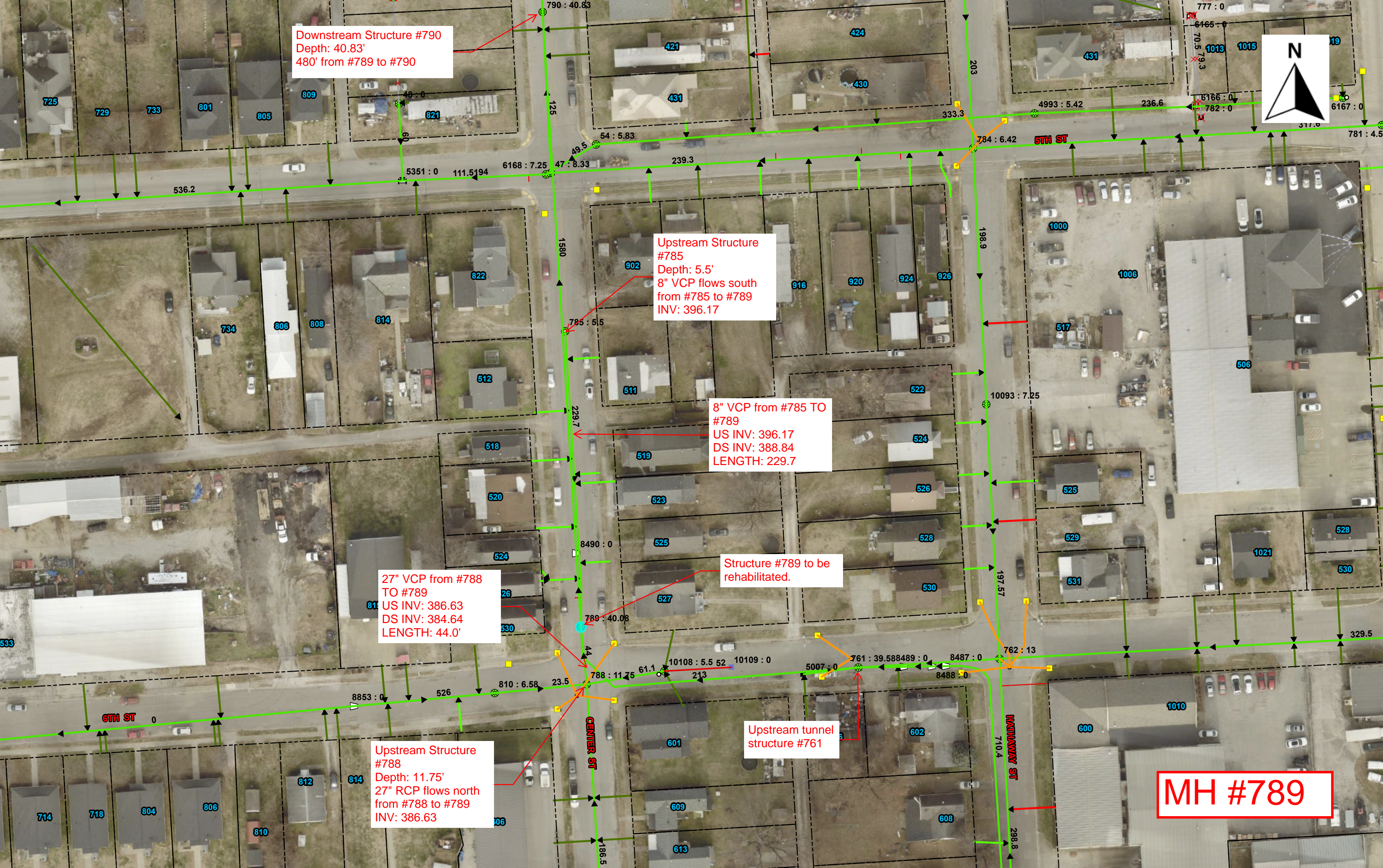
Structure #789 to be rehabilitated.

27" VCP from #788 TO #789
US INV: 386.63
DS INV: 384.64
LENGTH: 44.0'

Upstream Structure #788
Depth: 11.75'
27" RCP flows north
from #788 to #789
INV: 386.63

Upstream tunnel structure #761

MH #789





Downstream Structure #4811
(located at Specialty Foods Group)
Depth: 43.25'
725' from #3827 to #4811

Upstream Structure #3830
Depth: 10.0'
15" VCP flows south from #3830 to #3827
INV: 390.49

15" VCP from #3830 TO #3827
US INV: 390.49
DS INV: 386.27
LENGTH: 88.9'

Upstream Structure #3826
Depth: 8.42'
12" VCP flows west from #3826 to #3827
INV: 392.37

Structure #3827 to be rehabilitated.

15" VCP from #9835 TO #3827
US INV: 390.45
DS INV: 390.27
LENGTH: 14.5'

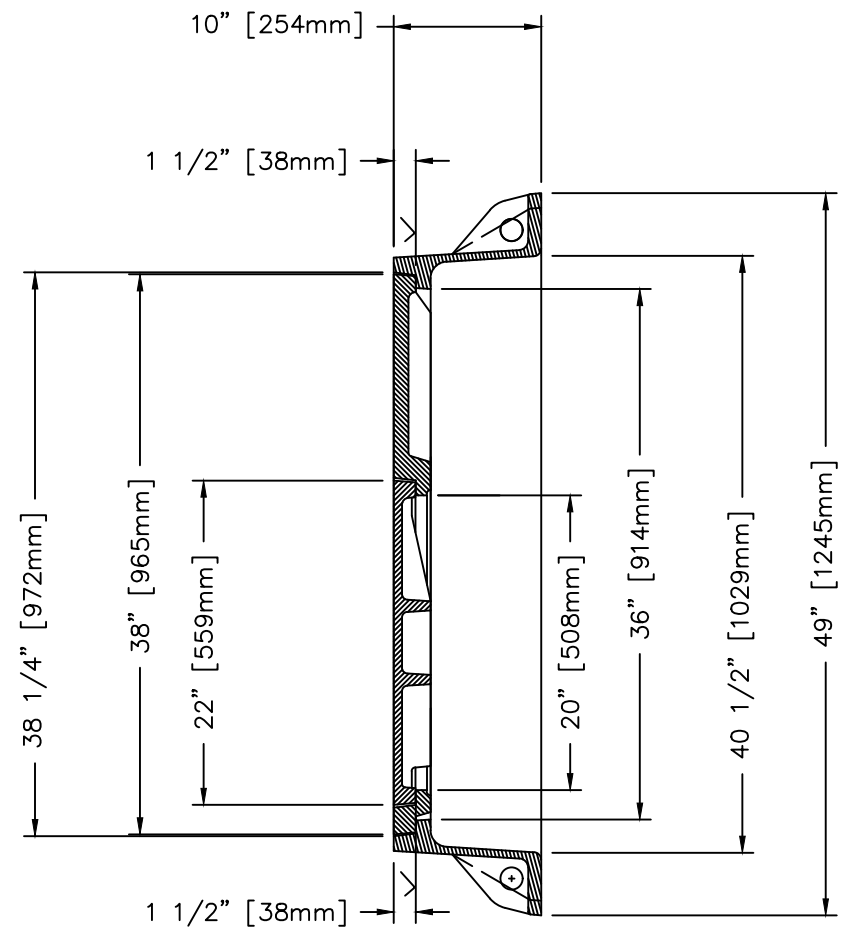
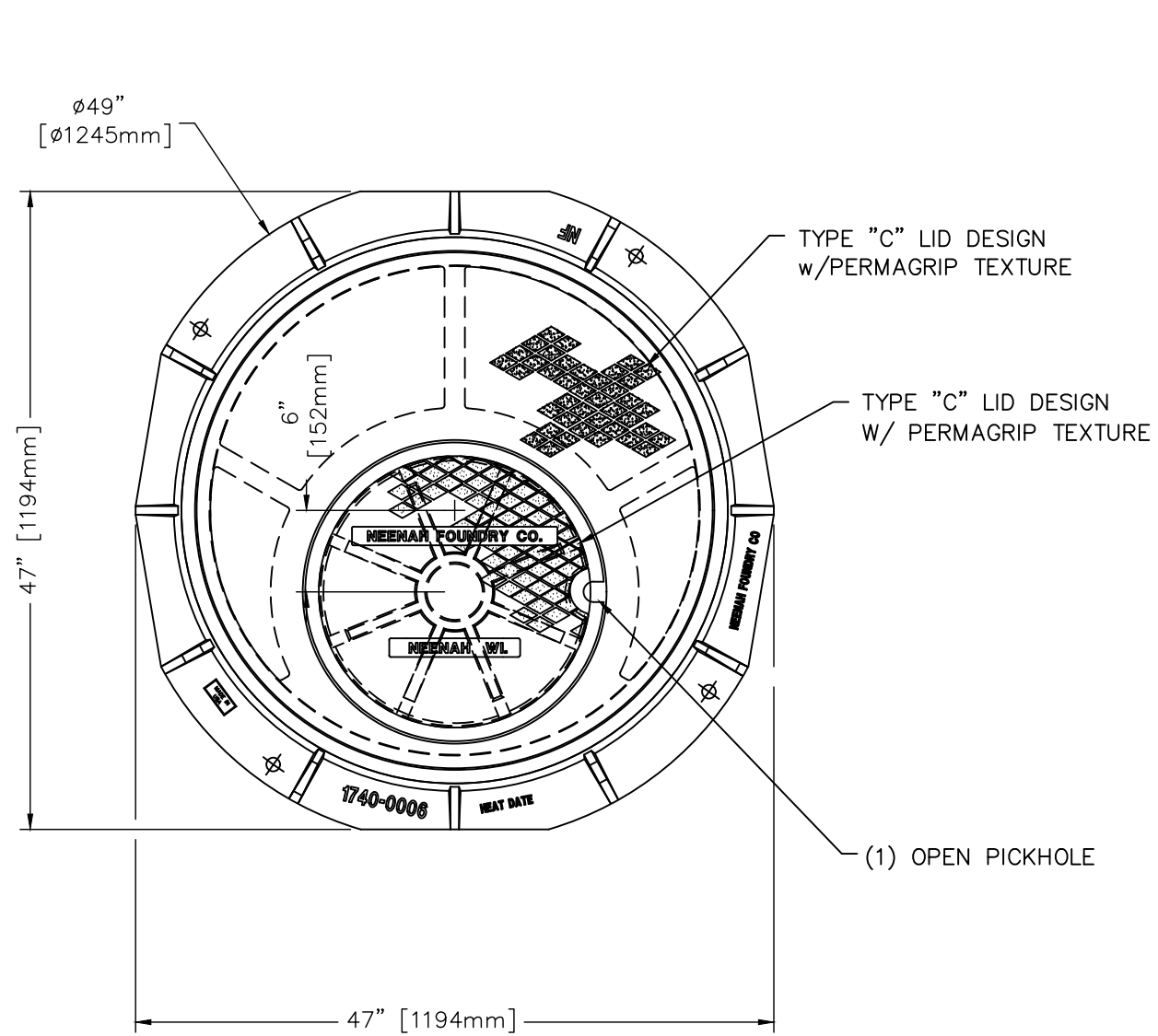
Upstream Structure #9835
Depth: 10.0'
15" VCP flows north from #9835 to #3827
INV: 390.45

12" VCP from #3826 TO #3827
US INV: 392.37
DS INV: 386.27
LENGTH: 235.0'

Upstream tunnel structure #3811 not shown. See previous sheet.

MH #3827





NOTE: ALL DIMENSIONS SHOWN ARE IN ENGLISH AND [METRIC]
 COMPONENT NOS.: FRAME 1740-0006, OUTER LID 1741-0006, INNER LID 1090-0011
 MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B
 FINISH: NO PAINT
 WEIGHT: FRAME APPROX. 462, OUTER LID 282#, INNER LID 91#

DR.	CSK	SCALE	1"=1'-0"	TITLE:	R-1741-D
CH.		DIM CHK.			FRAME WITH DOUBLE LIDS
APP.				NEENAH FOUNDRY COMPANY	NF-1741 600 B
DATE	REVISION	DATE	10-19-1993	NEENAH WISCONSIN 54956	