



AECOM Technical Services Inc.

COURT STREET SEWER SEPARATION PROJECT

Addendum No. 1

March 25, 2016

To All Plan Holders:

The following changes, additions and/ or deletions are hereby made a part of the Bidding Documents for the **COURT STREET SEWER SEPARATION PROJECT**, February 2016, as fully and completed as if same were fully set forth therein:

Project Manual

1. Replace Section 01025 Measurement and Payment with new Section 01025, attached, which updates Item 17 to include any roadway gravels that are necessary outside of pipe installation areas.

Project Drawings

1. Replace Sheets 00 C-102 and 00 C-103 with new sheets, attached, with additional information related to proposed finish grade of gravel and vertical curves.
2. Replace Sheets 00 C-104 and 00 C-105 with new sheets, attached, with updated catch basin rim elevations.

Attachments

The following information is attached as part of this addendum:

1. Pre-Bid Meeting Minutes from March 10, 2016
2. Contract Questions and Answers
3. PreBid Meeting Attendee List
4. Section 01025, Measurement and Payment
5. Plan Sheets 00 C-102, C-103, C-104, C-105

All other provisions of the Bidding Documents remain the same.

All Bidders shall acknowledge receipt and acceptance of this Addendum No. 1 by signing the acknowledgement of addendum in Section C, bid form, page C-1. Bids submitted without acknowledgement of this Addendum shall be considered informal.

Court Street Sewer Separation Project PreBid Meeting Minutes
Thursday, March 10, 2016 1:00 p.m.

Comments Engineers

- Project Description: Full replacement of sewer and installation of new storm drain on Court Street beginning at the intersection near Bean Court and extending to Boynton Street, approximately 1,000 feet of storm drain and 800 feet of sewer. In a combined area, so flows will vary greatly depending on weather.
- All contractors and subcontractors are hereby notified that the City of Bangor has entered into a Consent Decree with the United States and the State of Maine. For the purposes of the Consent Decree, contractors and subcontractors are deemed agents of the City. Any and all work performed by contractors and subcontractors must conform with the terms of the Consent Decree. Contractors must familiarize themselves with the contents of the document and must make the document available to all subcontractors. This document is available electronically at http://www.bangormaine.gov/filestorage/318/350/7758/ENV_ENFORCEMENT.PDF or in hard-copy in the City of Bangor's Engineering Department.
- There is a specific completion deadline for this project under the Consent Decree of December 31, 2017. However, the City wants the project complete prior to October 15, 2016, so that Court Street can be paved. There is no paving under this contract, only prep.
- Note design done by City's consultant, so Contractors should familiarize themselves with the Contract Documents.

Housekeeping During Project

- Trench maintenance and dust control
- Maintenance of traffic
- Maintenance of existing sewer flows
- Erosion control

Special Funding Requirements

- The project is funded by the Clean Water State Revolving Fund (CWSRF). Davis Bacon Wage Rates, the American Iron and Steel Act of 2014, labor interviews, certified payrolls, and DBE goals are all applicable to this project.

Timeline

- Bid Opening: Wednesday, March 30, 2016, 2:00
- All questions must be submitted in writing to bids@bangormaine.gov, no later than Tuesday, March 22, at 4:30 p.m. All questions and answers will be issued in the form of an addendum upon approval by funding agency.
- Completion Date: October 15, 2016

Attendee Q&A

For a complete listing of all questions received at the meeting and during bidding, please see Contract Questions and Answers, included in the attachments to Addendum 1.

Court Street Sewer Separation Project
Contract Questions and Answers

1. Contractor requested centerline profile. Road appears to be superelevated, what is intent for grading?

See attached plan sheets for centerline gravel grade finish elevation. The City reviewed survey data and while there is not currently a well established crown or a consistent cross slope at all points along Court Street, the road is not superelevated. Some cross slope does exist from centerline to each edge of pavement along the majority of the project area. The section included in the details is a typical section, considerations will have to be made for existing driveway and sidewalk grades that need to be matched into but where possible the road should be graded to establish crown and cross slope.

2. What are testing requirements for pipe?

Upon installation of the pipe, the contractor will be required to notify the City sewer crew who will perform CCTV inspection of the new sewer main.

3. Is there concrete in the roadway on Court Street?

No.

4. How is gravel under roadway being paid for in areas that are not excavated as part of trenches?

Due to the anticipated trench widths for the utilities, and the number of anticipated service trenches, it is assumed that there will be minimal remaining area of the road that will need to be excavated and filled with gravel. Payment for gravel that needs to be installed in the utility trenches is intended to be included as part of the pipe items. In the case that these small areas do exist where additional gravel needs to be installed, these costs have been included in the Measurement and Payment section for fine grading (Item 17), to cover the cost of any additional materials needed as road base and subbase.

5. There appears to be a discrepancy in the Catch Basin rim elevations, please clarify.

Refer to new sheets, attached as part of Addendum 1, where catch basin rim elevations have been updated.

6. Where will the new service laterals extend to?

Generally new service laterals will be extended to the right of way. If there is a specific site feature that the contractor feels would be compromised by the presence of the equipment needed to install the lateral, engineer may allow the lateral to be stopped short to avoid the feature. This will be determined on a case by case basis.

7. What is the responsibility of contractor following fine grading prior to paving under City's contract?

Following utility work the area will be paved under the City's paving contract. The contractor will need to coordinate with public works to ensure that fine grading doesn't occur too far in advance of paving. It is not the intent of the City to leave the road unpaved for a long period of time which would necessitate extra maintenance on the contractor's part.

8. Will Court Street be able to be closed to traffic?

The City will allow temporary closures as needed for certain construction activities but generally Court Street should be kept at least partially open to traffic outside of the immediate work area.

9. Is temporary trench paving every week required?

No. There is no temporary paving requirement or item in this contract. The Contractor will be required to maintain the trenches to a condition acceptable to the Engineer including dust control.

10. What are sidewalk restoration requirements?

The Contractor will have to maintain a smooth trench even with existing grades to pass foot traffic. There is no sidewalk paving as part of this contract.

11. Contractor requested clarification of the rock excavation bid quantity.

The unit for rock excavation should be cubic yards (CY).

12. Contractor requested copy of prebid attendee list.

The prebid attendee list is included as part of the attachments to Addendum 1.

13. What is the expectation for maintaining the road and sidewalk during the work since there will be a difference in sidewalk grade?

The Contractor will have to maintain transitions between graded areas wherever possible. If there are areas where this cannot be accomplished, the City will allow areas to be closed off as long as there are safe alternative pathways. In areas where existing curbing needs to be removed to install laterals or catch basins, the Contractor will need to smooth the backfilled excavation over the elevation change, rather than leaving a drop between the two areas. The City will consider Contractor's specific methods of how they want to secure their site during non-working hours.

14. Can SaniTite HP be considered an equal alternative material to PVC for gravity sanitary sewer applications?

For this particular project, the City will not consider the SaniTite HP product to be an equal alternative to the pipe listed in the specifications.

15. Last year the City allowed a 2 foot diameter pipe to be installed in a trench box with 4 foot wide spreaders. Will this be allowed again this year?

Refer to the pipe installation details. The contractor must use equipment that will allow for installation of the 2 foot diameter pipe in accordance with the plans and specs.

16. Is the City's intent for the pipe trenches to be wrapped in filter fabric?

No, it will not be necessary for the trench to be wrapped in filter fabric for this installation.

17. What is the intended method of connection for sewer service laterals to the proposed sewer main?

Inserta-tees or approved equal are specified for this project.

18. Is a true "type A" gravel required for the base gravel?

The City will allow a "type B" or "type C" two inch minus gravel for the base gravel that meets gradation if proposed by Contractor.

19. Is the intent for the Contractor to hire out CCTV inspection following completion of installation?

The post-construction CCTV inspection can be accomplished using City crews. If done using City crews, there will not be a charge to the contractor for the post-construction CCTV inspection.

20. Precast structures SMH-5 and DMH-1 do not work as designed (all pipe openings do not fit within a structure) even if they are increased to being 8' ID. Please clarify.

Regarding structure DMH-1: This is a 6 foot diameter structure. The engineers have verified that the proposed angles and core sizes do have enough concrete in between to install the structure and pipes in the configuration as shown on plans.

Regarding structure SMH-5: The 6-ft diameter manhole at SMH-5 will need to be field verified during construction when the Boynton Street connection angle is confirmed. For this bid assume that a 6-ft diameter manhole will be sufficient. Not all of the existing sewer mains on this project were able to be inspected with CCTV.

COURT STREET PHASE II SEWER SEPARATION PROJECT

BEAN TO BOYNTON

Pre Bid Meeting: March 10, 2016 1:00 p.m.

	<u>Attendee Name:</u>	<u>Company:</u>	<u>Phone:</u>	<u>Fax:</u>	<u>Email:</u>
1	Brandon Foss	Eastwood Contractors	949-0425	949-4309	Eastwoodcontractors@roadrunner.com
2	Barney Silver	Lou Silver Inc	745-9871	942-5072	barney@lousilver.com
3	MATHEW KLADDER	LOU SILVER INC	745-7297	942-5072	matthew@lousilver.com
4	Steve Mac Nollan	SEB, Steve Nollan	942-2168	942-3123	
5	Tom Jewell	Gardner Construction	478-6369	948-3885	tom@gardnerconstructionenterprises.com
6	Dave Preble	SARGENT CORPORATION	827-4435	827-3148	dpreble@sargent-corp.com
7	Tim Hallett	R.L. Jordan	667-5236	667-9321	jhallett@rljordanandsons.com
8	Chip Swan	City of Bangor	659-4747		chip.swan@bangormaine.gov
9	JEFF BEERS	CITY OF BANGOR	356 2471		jeff.beers@bangormaine.gov
10	JOHN THEVENAUT	CITY OF BANGOR	992-4249		JOHN.THEVENAUT@BangorMaine.ME
11	Amanda Soucier	City of Bangor	992-4244		amanda.soucieri@bangormaine.gov
12	Steven Freedman	AECOM	541-2027		
13	Kate Mignone	AECOM	978-905-3151		Kate.mignone@aecom.com
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SECTION 01025

MEASUREMENT AND PAYMENT

PART 1 - GENERAL

1.01 MEASUREMENT AND PAYMENT:

The following subsections describe the measurement of and payment for the work to be done under the items listed in the BID.

Each unit or lump sum price stated in the BID shall constitute full compensation as herein specified for each item of work completed in accordance with the drawings and specifications.

The prices for those items which involve excavation including but not limited to pipes, manholes, catch basins, and lump sum structures shall include compensation for disposal of surplus excavated and unsuitable material, installation of all earth support bracing, sheeting to remain in place, as specified, protection and support of all existing utilities (as needed), dewatering, furnishing and installing non-woven geotextile, where required; compaction, and protection of physical features, erosion control, bedding, and backfilling and CCTV of the new sanitary sewer pipes.

The prices for those items which involve excavation include handling uncontaminated and contaminated water (generated by dewatering or stockpile drainage) and treatment of uncontaminated water (generated by dewatering or stockpile drainage).

In all items involving excavation, the price shall be based on doing the entire excavation in earth. Where rock is excavated, the price therefore, shall be in addition to the cost of excavating earth, and no deduction will be made in the amount for earth excavation.

The prices for all pipe items (drains and sewer), lump sum items, and manholes shall constitute full compensation for furnishing, laying, bedding, jointing, and testing pipe; earth excavation and backfill; cleaning up; and screened gravel.

For pipelines less than 24 inches in diameter, if the pipe for which payment is requested has not been successfully tested, 10 percent of the amount requested for such pipe items may be withheld until the pipe has been tested and meets the test requirements. For pipelines 24 inches in diameter or greater, the amount that may be withheld is 2 percent of the amount requested.

The prices bid shall constitute payment for all work incidental thereto. Unless identified within the individual item description, the price shall not include work specifically identified for payment under other items.

1.02 LIMITS OF NORMAL EXCAVATION:

1. In determining the quantities of excavation to which unit prices shall apply, the limits of normal width and depth of excavation shall be as described below, unless other limits are indicated on the Drawings or specified.

For other structures, except manholes as noted below, the normal width shall be measured between vertical planes 1 ft. outside the neat lines of the several parts of the structure, except that the width at any elevation shall be measured as not less than the width at a lower elevation. The normal depth shall be measured to the underside of that part of the structure for which the excavation is made.

No additional width or depth of trenches excavated in earth or rock shall be allowed at standard circular manholes.

Wherever bell holes are required for jointing pipe, they shall be provided without additional compensation over and above that resulting from measurements as above described.

1.03 THE MEASUREMENT AND PAYMENT FOR THE BID ITEMS 1 THROUGH 14 ARE AS FOLLOWS:

1. MOBILIZATION / DEMOBILIZATION

- A. The lump sum price for Item 1 shall constitute full compensation for initiating the contract, obtaining all permits, bonds and insurance, exclusive of the cost of materials, for mobilizing all machinery, tools, and other equipment to carry on and complete the work.
- B. The lump sum price for this item shall not exceed THREE percent (3%) of the total amount of the base bid (Items 2 through 21), excluding this item. Payment for this item shall be payable when the Contractor is operational on the site. For purposes of the SRF policy, "operational" shall mean the substantial commencement of work on site.

2. SEDIMENTATION AND EROSION CONTROL:

- A. The lump sum price for Item 2 shall constitute full compensation for sedimentation and erosion control measures not included for payment under 1.01c, Excavation.
- B. This Item shall be paid in proportion to percentage of Work completed at time of requisition.

3. TRAFFIC MANAGEMENT PLAN AND MAINTENANCE AND PROTECTION OF VEHICULAR AND PEDESTRIAN TRAFFIC

- A. The lump sum price for Item 3 for traffic management plan during construction shall constitute full compensation for the following: develop and implement a traffic management plan including furnishing, positioning, adjusting, re-positioning, storage, removing, resetting, or moving to access work area of all devices such as traffic cones, high level warning devices, temporary concrete barrier, temporary-impact attenuator, temporary fencing, etc. signage, concrete jersey barriers necessary to minimize traffic disruption and protect safety of the job site and work crews, reflectorized drums, special lighting unit, temporary impact attenuator (shoulder and medium, incapable redirection/removed and reset), temporary steel road plates, traffic cones, high level warning devices, temporary fence and sign supports, furnishing and installing temporary pavement markings and pavement markings removal (paint) as needed; and all other items incidental thereto and not specifically included for payment under other items.
- B. This Item shall be paid in proportion to percentage of Work completed at time of requisition.

4. FLAGGING HOUR

- A. The unit price for Item 4 per Flagger Hour shall constitute full compensation for all costs all costs associated with flagging personnel including hiring, transporting, equipping, supervising, and the payment of all flaggers and all overhead and incidentals necessary to complete the work and provide satisfactory traffic control.
- B. The number of hours to be paid for under this Item shall be equal to the actual number of hours onsite and on station for flaggers.

5. CALCIUM CHLORIDE FOR DUST CONTROL

- A. Calcium chloride for dust control shall be measured by the pound of calcium chloride furnished and applied for dust control during construction.
- B. The unit price for Item 5 shall constitute full compensation for the furnishing and applying calcium chloride for dust control during construction.

6. TEMPORARY SEWER BYPASS CONNECTION AND REMOVAL

- A. The lump sum price for Item 6 shall constitute full compensation for installing, maintaining, and dismantling the temporary sanitary sewer bypass system, including all equipment, labor and materials required to install and maintain the temporary bypass during construction.

7. CONSTRUCTING STORM DRAINS AND SANITARY SEWERS

- A. The lengths of storm drains and sanitary sewers to be paid for under the appropriate subdivisions (Items 7.1 through 7.5) of this item shall be measured by the linear foot with the lengths of manhole inverts (as measured between the inside walls of the manholes) being deducted. Measurement for catch basin laterals shall be measured by the linear foot with the lengths of catch basins to drain manhole inverts (as being measured between the inside walls of the catch basin and manhole) being deducted where catch basins and manholes are located.
- B. The unit prices for the appropriate subdivisions of this item shall constitute full compensation for constructing drains, complete, as indicated on the drawings and as specified including cutting and plugging of specified drains and all existing catch basin laterals, reconnecting existing and new drains to new drain manholes but confirming prior to the work that the lines are not sanitary or combined, removal and disposal of existing drains, abandoning of existing sewers, drains and combined brick sewers as necessary, bends, branches, fittings, removal and disposal of material in the pipe and CCTV inspections of the new sanitary sewers.
- C. The unit prices for the appropriate subdivisions of this item shall constitute full compensation for constructing sewers and building sewer laterals and connections, complete, as indicated on the drawings and as specified including bends, branches, fittings, removal and disposal of material in the pipe. The work under the appropriate subdivision of these Items shall also include reconnecting existing sewer lines to new sewer manholes, and removal and disposal of existing sanitary sewer lines, abandoning existing sewer lines as indicated.

8. CONSTRUCTING PRECAST CONCRETE STRUCTURES

- A. Manholes (4-, and 6-foot diameter) to be furnished and installed under Item 8.1 and 8.2 shall be measured by the vertical foot from the invert of the manhole base at its center to the bottom of the frame. Only one bid item will be used for each distinct manhole location, corresponding to the diameter at its base.
- B. The unit prices include the manhole, base, walls, cones, risers, transition segments and flat slab tops, frames and covers, jointing, grouting, manhole rungs, cutting, removal and disposal of pavement, excavation, bedding, backfill, testing, pipe connections, brick invert and shelves, and brick work to adjust frames.
- C. Catch basins to be furnished and installed under Item 8.3 shall be measured by the vertical foot from the invert of the catch basin sump at its center to the bottom of the frame. Only one bid item will be used for each distinct catch location, corresponding to the diameter at its base.

- D. The unit price for new catch basins shall constitute full compensation for furnishing and installing the catch basins, including 4-foot deep sumps, bases, barrels, cones, jointing, grouting, manhole ramps, hoods for outlet pipes, cutting and removal of pavement, excavation, bedding, testing, backfilling, restoration of surface, restoration of physical features, pipe connections, frames and covers including brick work to adjust frames complete, as indicated in the drawings and as specified.
- E. The number of existing manholes or catch basins to be abandoned in place to be paid for under Item 8.4 shall be equal to the actual number of manholes or catch basins abandoned in place.
- F. The unit price for this item shall constitute full compensation for abandonment of existing manholes or catch basins, complete, as specified and as shown on the drawings, including but not limited to removal and disposal of structure to a maximum of 4-feet below existing grade, restoring existing grade using appropriate fill, excavation, disposal of frames and covers, disposal of unsuitable material and all required fill materials.
- G. The number of existing catch basins to be modified to complete the proposed connections for this contract to be paid for under Item 8.5 shall be equal to the actual number of manholes or catch basins abandoned in place.
- H. The unit price for this item shall constitute full compensation for modify the catch basin, complete, as specified and as shown on the drawings, including but not limited to coring catch basin, connection to the catch basin, patching/plugging of existing pipe penetration, restoring existing grade using appropriate fill, excavation, disposal of unsuitable material and all required fill materials.

9. MISCELLANEOUS EARTH EXCAVATION BELOW NORMAL DEPTH:

- A. The quantity of miscellaneous earth excavation below normal depth (limit of normal excavation) to be included for payment under this item shall be the number of cubic yards of unsuitable material excavated, measured to the depths and lengths ordered, and to the width between payment limits for normal excavation for trenches associated with pipelines as indicated on the drawings.
- B. The unit price for this item shall constitute full compensation for excavation below normal depth for trenches associated with pipelines. Handling and disposal of unsuitable material excavated under this item shall be paid under separate bid items.

10. CHANGE IN QUANTITY OF EARTH EXCAVATION AND BACKFILL DUE TO PIPE DEPTH CHANGES:

- A. Should a change in the depth of the pipe be ordered or should the depths of the pipe be changed by changes in alignment or by differences between the ground surface

indicated on the drawings and that encountered during the work, and should such changes increase or decrease the quantity of excavation and backfill upon which the pipes are based, adjustments shall be made therefore under this item.

- B. The quantity of earth excavation and backfill to be considered under this item shall be the additional number of cubic yards excavated and backfilled, or that quantity of excavation and backfill omitted in accordance with the requirements of the Engineer and as specified above.
- C. The quantity to be considered under this item shall be cumulative; that is, an increase on any part of the work offset a decrease on any other part of the work, and the final adjustment shall be based on the net increase or decrease for this item.
- D. If the quantity of earth excavation and backfill work performed is greater than that indicated on the drawings, the Contractor shall be paid under this item.
- E. If the quantity of earth excavation and backfill performed is less than that indicated on the drawings, the Owner will receive credit for such decrease at the unit price for this item.
- F. The unit price for this item shall constitute full compensation for making additional excavations and backfilling such excavations, as specified.

11. TEST PITS

- A. The quantity of earth excavation and backfill for test pits to be paid for under the appropriate subdivision of Item 11 (Items 11.1 through 11.3) shall be the actual number of test pits excavated and backfilled, measured to the extent of the work done as ordered by the Engineer for test pits. No payment to be made if the excavation is done in conjunction with performance of other work items, except for rock excavation and removal and concrete excavation and removal.
- B. The unit price for the appropriate subdivision of this item shall constitute full compensation for excavation and backfill for test pits, including measure test pits with the Engineer and sketch of test pits with measurements (width, depth) and utilities shown. This work includes cutting and removal pavement, excavation, excavation support, dewatering, backfilling, restoration of surface and features.
- C. Contractor to submit an exploratory excavation plan at the preconstruction meeting, based on identified test pit locations. This bid item includes additional, unlocated test pits to be used at Owner's discretion.
- D. The Contractor shall perform exploratory excavation to verify size and location

of existing utilities, prior to installation of any segment of water main, sanitary sewer, or storm drain.

12. ROCK EXCAVATION AND DISPOSAL

- A. Where rock is encountered, it shall be uncovered but not excavated until measurement has been made by the Engineer, unless in the opinion of the Engineer, satisfactory measurement can be made in some other manner.
- B. The quantity of rock to be paid for under this item shall be the number of cubic yards of rock, measured in place before excavation, within the payment limits indicated on the drawings and as defined in this Section, unless rock excavation beyond such limits has been authorized in writing by the Engineer, in which case measurements shall be made to the authorized limits.
- C. Excavated rock which has not been disposed of shall not be included for payment.
- D. The bidder shall include in his bid for items involving excavation, the cost of doing the entire excavation as earth, the price for this item is intended to cover the difference between the cost of rock excavation and the cost of earth excavation. The price for this item shall be paid in addition to any payment made for earth excavation.
- E. The unit price for this item shall constitute full compensation for rock excavation and disposal, for all necessary backfilling, and for furnishing all additional material needed for backfilling.

13. REMOVAL AND DISPOSAL OF BITUMINOUS CONCRETE PAVEMENT

- A. The quantity of bituminous concrete pavement to be paid for under Item 13 shall be equal to the actual number of square yards of bituminous concrete pavement removed and disposed of between the limits of the existing curbing, including that pavement within the limits of trenches for all items which require excavation, as directed by the Engineer, as shown on the Contract Drawings and as specified in the Contract Documents.
- B. The unit price for removal and disposal of bituminous concrete pavement shall constitute full compensation for the removal and legal disposal of bituminous concrete pavement, including all equipment, transportation and disposal fees, the removal of existing curbing, and all other items not explicitly listed to prepare the roadway for final fine grading.

14. BANK-RUN GRAVEL:

- A. Bank-run gravel ordered for backfill of trenches above normal depth shall be paid for under this item. The quantity of bank-run gravel used as backfill for trenches above normal depth shall be measured by the cubic yard to the depth and length ordered and to the width between payment limits for normal excavation as indicated on the drawings. Bank-run gravel outside the limits of normal excavation shall be furnished, placed, and compacted at the Contractor's expense, and no measurement will be made for such gravel.
- B. Bank-run gravel ordered to be used at other locations shall be measured after compaction and paid for under this item as the number of cubic yards of gravel actually placed and compacted as directed.
- C. Bank-run gravel used to backfill rock excavations will not be measured for payment under this item.
- D. The unit price for this item shall constitute full compensation for furnishing, placing, and compacting bank-run gravel, as specified.

15. CRUSHED STONE OR SCREENED GRAVEL

- A. Screened gravel below normal depth shall be paid for under Item 15. The quantity of screened gravel backfill below normal depth to be paid for shall be the same as that number of cubic yards of earth excavation below normal depth measured for payment under the appropriate subdivision of "Miscellaneous Earth Excavation Below Normal Depth", which said gravel replaces.
- B. Additional crushed stone or screened gravel used for support of existing utilities or ordered to be used at other locations shall be paid for under this item. The quantity to be paid for shall be the number of cubic yards, measured in place after compaction, of additional crushed stone or screened gravel within the limits directed by the Engineer.
- C. Crushed stone or screened gravel used for bedding pipe, to backfill unauthorized excavations, for any drainage purpose, or as indicated on the drawings for work for which appropriate payment items have been provided, shall not be measured for payment under this item.
- D. The unit price for this item shall constitute full compensation for furnishing, placing, and compacting crushed stone or screened gravel, as specified.

16. SELECT BORROW

- A. Select borrow ordered by the Engineer for backfill of trenches above normal

depth shall be paid for under this item. The quantity of select borrow used as backfill for trenches above normal depth shall be measured by the cubic yard to the depth and length ordered and to the width between payment limits for normal excavation as indicated on the drawings. Select borrow outside the limits of normal excavation limits shall be furnished, placed, and compacted to the satisfaction of the Engineer at the Contractor's expense, and no measurement will be made for such borrow

- B. Select borrow ordered to be used by the Engineer at other locations shall be measured after compaction and paid for under this item as the number of cubic yards of borrow actually placed and compacted as directed.
- C. Select borrow used to backfill rock excavations will not be measured for payment under this item.
- D. The unit price for this item shall constitute full compensation for furnishing from an acceptable borrow pit, placing, and compacting select borrow, as specified.

17. FINE GRADING OF ROADWAY SUBBASE

- A. The quantity of fine grading of roadway subbase to be paid for under the appropriate subdivision of this item shall be equal to the actual number of square yards graded to the satisfaction of the Engineer.
- B. The unit price for fine grading of roadway subbase shall constitute full compensation for the finish fine grading of the roadway subbase to the grades ordered and directed by the Engineer, as specified in the Contract Documents and as shown on the drawings. The fine grading shall include the materials for the 6" aggregate base and 18" aggregate subbase within the limits of the roadway designated for full width pavement between Station 0+00 and the drainage stub at the Boynton Street intersection.

18. LOAM AND SEED

- A. The quantity of loam and seed to be paid for under this item shall be equal to the actual number of square yards loamed and seeded, as directed by the Engineer, as specified in the Contract documents and as shown on the Contract Drawings.
- B. The unit price for loam and seed shall constitute full compensation for furnishing and placing loam and seed as directed by the Engineer, as specified in the Contract Documents and as shown on the Contract Drawings.

19. CONTROLLED LOW STRENGTH MATERIAL (CLSM):
- A. The quantity of controlled low strength materials (CLSM) to be paid for under the appropriate subdivision of this Item (Items 19.1 and 19.2) shall be equal to the actual number of cubic yards placed as directed by the Engineer.
 - B. Controlled low strength materials used for the plugging of existing drain and sewer connections shall not be paid for under this item.
 - C. The unit price for this item shall constitute full compensation for furnishing and placing the controlled low strength material as directed by the Engineer.
 - D. No measurement shall be made under this item for controlled low strength material used as indicated on the drawings for work which appropriate payment items have been provided or for controlled density fill used to backfill unauthorized excavation.
20. MISCELLANEOUS 4,000 PSI CONCRETE:
- A. The quantity of 4,000 psi concrete to be measured for payment under this item shall be the actual number of cubic yards placed as directed by the Engineer.
 - B. No measurement shall be made under this item for 4,000 psi concrete used as indicated on the drawings for work which appropriate payment items have been provided or for concrete used to backfill unauthorized excavations.
 - C. The unit price for this item shall constitute full compensation for furnishing and placing 4,000 psi concrete as specified.
21. CONSTRUCTING SPECIAL STORM DRAIN AND SANITARY SEWER STRUCTURES:
- A. The lump sum price for the Boynton Street Sanitary Sewer Connection shall constitute full compensation for constructing the sanitary sewer junction structure at station 5+51 for connection of the Boynton Street 24-inch brick sewer to the proposed 24" sanitary sewer on Court Street, as depicted on the plan sheets, the special details, and as specified. This work includes all proposed piping, the proposed junction structure, complete, as indicated on the drawings and as specified; including but not limited to excavation, tie-in and connections to structures, pipes, fittings, inverts, channels, shelves, manhole risers, frames, covers, finish to grade, maintaining sewer and storm flows, bypass pumping, dewatering, masonry plugs, removal/disposal of existing

structures and materials in manholes, and protection and restoration of physical features, erosion control. In addition, this work includes cutting and removal of pavement, trenching, decking, bedding, backfilling (including CLSM), dust control, magnetic location tape.

- B. The lump sum price for the Sanitary Sewer Connection (SMH-6) shall constitute full compensation for constructing the sanitary sewer junction structure at station 7+30 for connection of the proposed sanitary sewer to the existing brick combined sewer on Court Street. This work includes all proposed piping and the proposed sanitary sewer manhole, complete, as indicated on the drawings and as specified; including but not limited to excavation, tie-in and connections to structures, pipes, fittings, inverts, channels, shelves, manhole risers, frames, covers, finish to grade, maintaining sanitary flows, bypass pumping, dewatering, masonry plugs, removal/disposal of existing structures and materials in manholes, and protection and restoration of physical features, erosion control. In addition, this work includes cutting and removal of pavement, trenching, decking, bedding, backfilling (including CLSM, if required), dust control, magnetic location tape.

- C. The lump sum price for the Storm Drain Connection (DMH-1) shall constitute full compensation for constructing the storm drain junction structure at station 0+00 for connection of the proposed storm drain to the existing storm drain on Court Street, as depicted on the plan sheets, the special details, and as specified. This work includes all proposed piping and the proposed drain manhole, complete, as indicated on the drawings and as specified; including but not limited to excavation, tie-in and connections to structures, pipes, fittings, inverts, channels, shelves, manhole risers, frames, covers, finish to grade, maintaining storm flows, bypass pumping, dewatering, masonry plugs, removal/disposal of existing structures and materials in manholes, and protection and restoration of physical features, erosion control. In addition, this work includes cutting and removal of pavement, trenching, decking, bedding, backfilling (including CLSM, if required), dust control, magnetic location tape.

END OF SECTION



ISSUE/REVISION

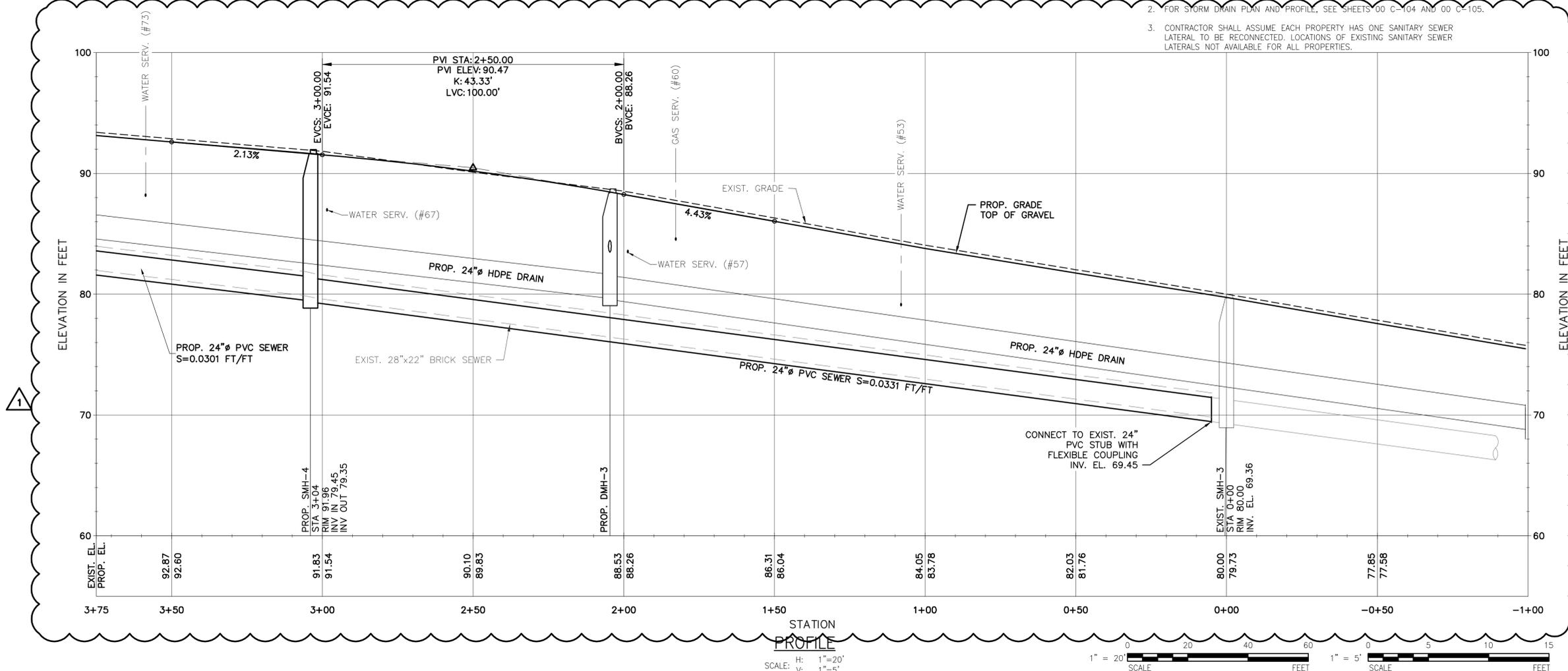
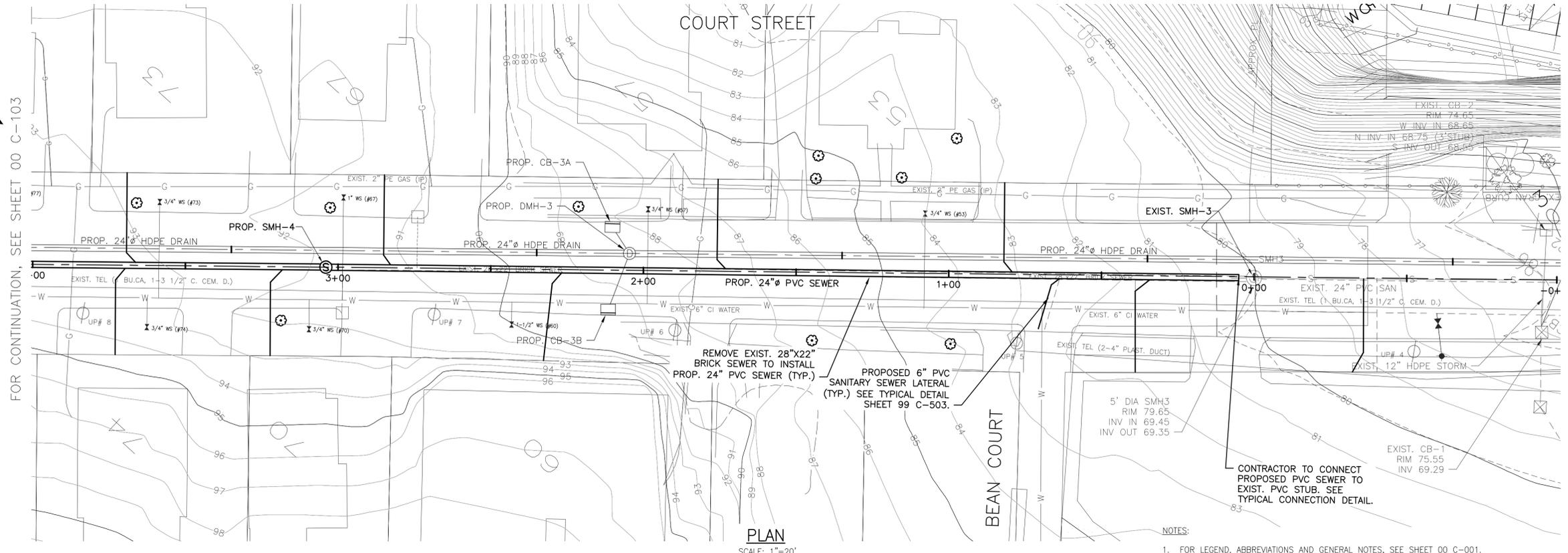
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1	3/24/16	PROP. GRADE CENTERLINE

PROJECT NUMBER
60336877

Designed By: **HGF**
 Drawn By: **HGF**
 Dept Check: **MLR**
 Proj Check: **TCM**
 Date: **FEBRUARY 2016**
 Scale: **AS NOTED**

DISCIPLINE
 CIVIL
SHEET TITLE
SANITARY SEWER PLAN
AND PROFILE I

SHEET NUMBER
00 C-102

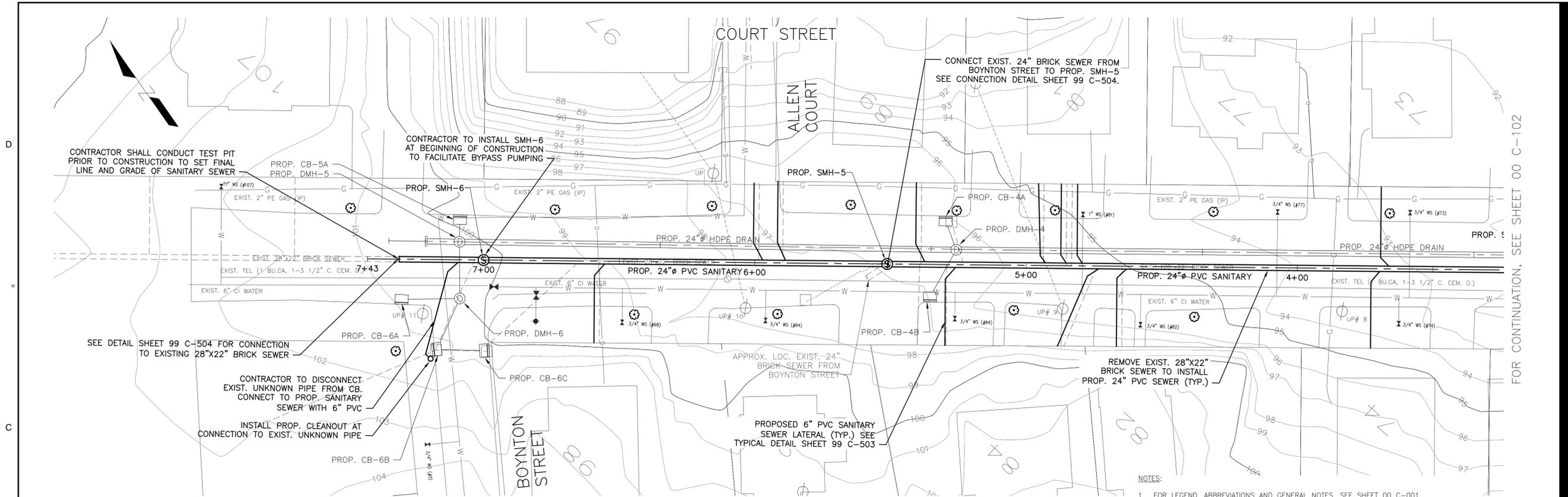




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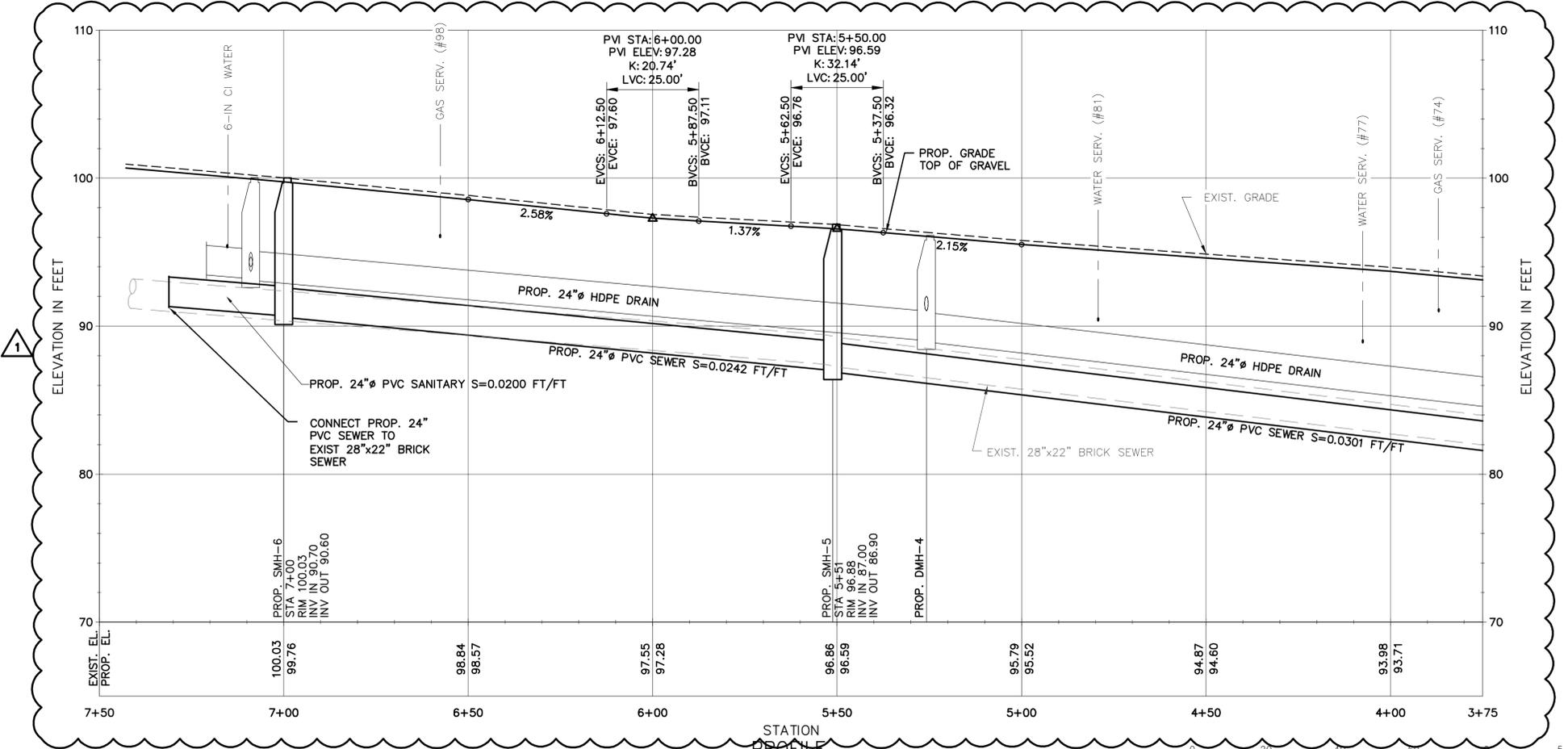
60336877

Designed By:	HGF
Drawn By:	HGF
Dept Check:	MLR
Proj Check:	TCM
Date:	FEBRUARY 2016
Scale:	AS NOTED



PLAN
 SCALE: 1"=20'

- NOTES:**
- FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES, SEE SHEET 00 C-001.
 - FOR STORM DRAIN PLAN AND PROFILE, SEE SHEETS 00 C-104 AND 00 C-105.
 - CONTRACTOR SHALL ASSUME EACH PROPERTY HAS ONE SANITARY SEWER LATERAL TO BE RECONNECTED. LOCATIONS OF EXISTING SANITARY SEWER LATERALS NOT AVAILABLE FOR ALL PROPERTIES.



PROFILE

PATH: \\BANGOR\IT\2016\CAD\PROJECTS\2016\COURT ST\1600_CAD\SHEETS\00 C-103.DWG
 LAST UPDATE: Thursday, March 24, 2016 10:40:32 AM
 PLOT DATE: Thursday, March 24, 2016 10:58:34 AM



I/R	DATE	DESCRIPTION
1	3/24/16	REV. CB RIM ELEV.

60336877

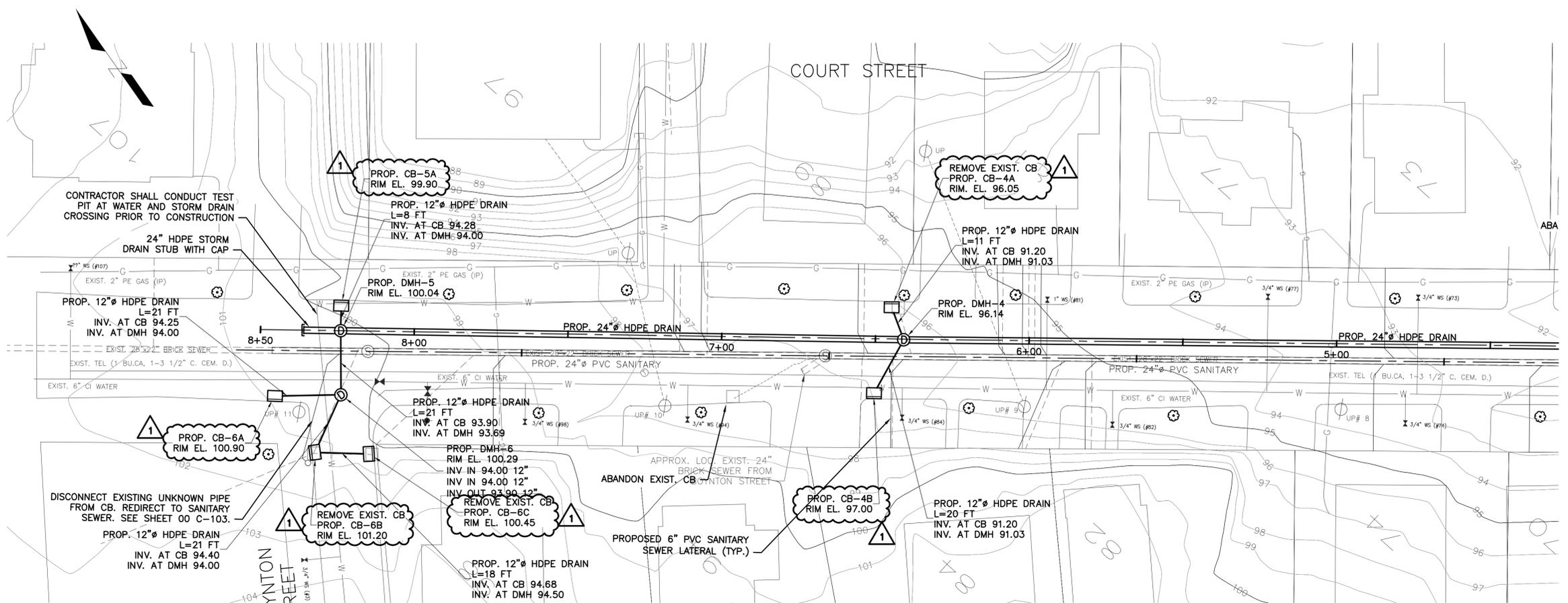
Designed By:	HGF
Drawn By:	HGF
Dept Check:	MLR
Proj Check:	TCM
Date:	FEBRUARY 2016
Scale:	AS NOTED

CIVIL

SHEET TITLE

STORM DRAIN PLAN AND PROFILE II

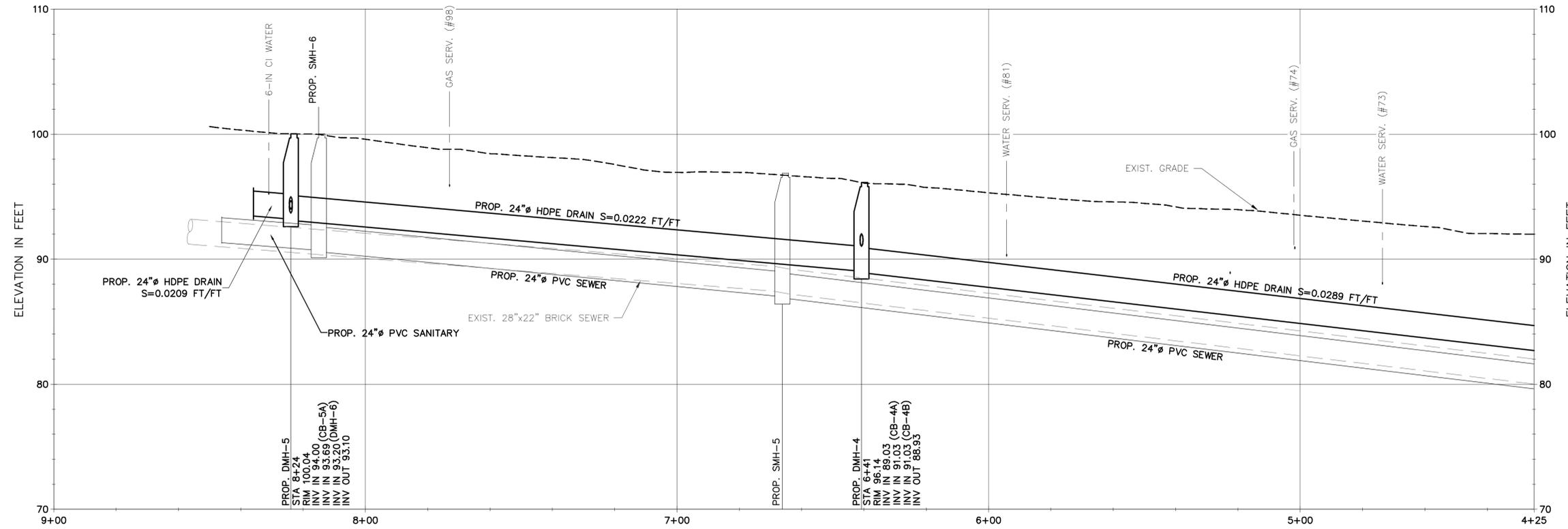
00 C-105



PLAN
 SCALE: 1"=20'

- NOTES:**
- FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES, SEE SHEET 00 C-001.
 - FOR SANITARY SEWER PLAN AND PROFILE, SEE SHEETS 00 C-102 AND 00 C-103.

FOR CONTINUATION, SEE SHEET 00 C-104



PROFILE
 SCALE: H: 1"=20'
 V: 1"=5'

