

Combined Sewer System Off-Site Improvement Evaluation for

South End Development

76 Second Avenue, City of Albany, New York



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Chazen Project No. 32019.00



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1.0 INTRODUCTION

1.1 Statement of Purpose

South End Development, LLC (SED) is currently advancing a mixed-use redevelopment project, featuring 239 residential units and roughly 50,000 SF of commercial space. At completion, the Seventy-Six will be the first Triple Net Zero development of its scale, not only in New York State, but in the Nation. To accomplish Net Zero Water and the International Living Future Institute (ILFI) Net Positive Water Imperative, we've identified on-site treatment and reuse strategies, as well as off-site infrastructure improvements that will be constructed to meet and exceed the requirements of the City of Albany Department of Water & Water Supply and benefit the City's combined sewer system.

However, in alignment with the significant sustainability goals of SED, the design team has taken a wholistic approach to water protection that considers stewardship of the entire Bouck sewershed/watershed. Through the evaluation outlined herein, we've identified additional opportunities for improvements to off-site watersheds that could broaden the positive impact to the City's combined sewer system and reduce combined sewer overflows (CSO's) to the Hudson River.

1.2 Project Site

The Seventy-Six project site is bounded by Second Avenue, Krank Street, Leonard Street and Seymore Street, as shown in the figure below. This area is located within the City of Albany Bouck sewershed, which is a combined sewer system that conveys flow to the Albany County Water Purification District South Plant during low-flow conditions, and to the Hudson River during high-flow conditions. Refer to **Appendix A**, **Figure 1**, that depicts the Bouck Sewershed and project site boundaries, as well as portions of the record infrastructure downgradient of the project site.

All sanitary sewer flow and stormwater runoff generated by the project site currently discharges to the City's combined sewer system; thereby, contributing to the volume of combined sewer overflow at the Hudson River.



Figure Project Site Boundary

2.0 EXISTING CITY OF ALBANY COMBINED SEWER INFRASTRUCURE

The City of Albany is one of six municipalities included in the Albany Pool Communities Long Term Control Plan (LTCP), which was developed as part of a consent order with NYSDEC. The LTCP requires the planning and implementation of strategies designed to control and abate CSO's, in accordance with a specified compliance schedule.

The evaluation presented herein, is specific to a portion of the 600-acre Bouck sewershed, which is tributary to the Albany County Water Purification District - South Plant. The South Plant, which treats wastewater from approximately 90% of the City of Albany and the Port of Albany, was designed for 19 MGD, and is permitted for a maximum of 29 MGD. The Bouck sewershed is controlled by the Bouck Street Regulator, as further described below. According to the 2011 data outlined in the LTCP, the Bouck sewershed contributes the second largest CSO volume at 94.1 MGY, which is discharged to the Hudson River over the course of 637 overflow hours during a total of 58 overflow events.

2.1 Bouck Street Regulator

The Bouck Street Regulator is located within the S Pearl Street right-of-way, near the intersection with Bouck Street. This structure functions as a flow regulator to discharge flow to the County Interceptor sewer main during low-flow conditions (dry weather), and discharge combined sanitary and stormwater flow to the Hudson River during high-flow conditions (wet weather). In 2018, the City of Albany performed an optimization project at the structure, as part of an emergency contract. This project replaced the failed 12" discharge pipe to the County Interceptor with a new 30" discharge pipe, and also increased the height of the internal weir to 18". These modifications were designed to reduce overflow volume to the Hudson River, by diverting a larger volume of sanitary sewer flow to the County Interceptor sewer for conveyance to the South Plant. The City did not provide data for the reduction in volume that was achieved. Plans for the 2018 Bouck Street Regulator Optimization Project are included in Appendix B.

2.2 First Avenue Diversion Chamber & Storm Relief Sewer

The First Ave Diversion Chamber was constructed in or around 1949, in conjunction with a storm relief sewer that ranges from 54 to 66" in size. This diversion chamber was designed to split flow during high-flow conditions between the undersized 36" brick combined sewer main and the new 54" RCP storm relief main, which was installed parallel with the combined sewer pipe, from the intersection of First Ave and Benjamin St, to the Bouck Street Regulator. Catch basins were installed along this route to collect and convey a large volume of stormwater through the storm relief main. The storm relief main does not have any direct sanitary service connections and conveys a significant volume of stormwater flow. However, it cannot be considered a separate storm sewer due to the combined sewer flow received from the First Ave Diversion Chamber and the connection/flow through the Bouck Street Regulator. Record Plans for the 1949 Storm Relief Sewer project are included in **Appendix C**.

3.0 PROPOSED IMPROVEMENTS

Since combined sewer overflows occur during wet weather conditions, the separation of stormwater runoff from the combined sewer is the most proactive way to eliminate overflows. Sewer separation is identified as one of six CSO control measures to be implemented under the Albany Pool Community LTCP. While the Bouck Street Regulator Optimization project met the goal of the City and the LTCP to reduce the volume of combined sewer overflow, it stopped shy of separating stormwater from sanitary sewer and did not provide capacity relief for the upgradient combined sewer mains.

In alignment with the significant sustainability goals of SED, we've evaluated a portion of the Bouck Sewershed in proximity to the project site, in order to identify opportunities for off-site improvements to broaden the positive impact to the City's combined sewer system. In addition to the project site, this evaluation included the following watersheds:

- Leonard/Krank/Odell Streets: stormwater runoff in these roadways currently flows downhill (south) and is collected by catch basins at intersections that discharge directly to the combined sewer mains.
- Liebel Street: stormwater runoff in this roadway currently flows downhill (east) and is collected by catch basins at the intersection with Leonard Street that discharge directly to the combined sewer main.
- Low Point at Headwall: existing low point located southwest of the intersection of First Ave and Cherry Hill St, that collects a portion of the McCarty Ave properties, Elmendorf St, and the surrounding vegetated area. This low point discharges through a 15" culvert to the combined sewer.
- West Swale at School: existing swale flowing east that collects portions of properties on Putnam Street and Van Orden Avenue, and the vegetated area to the west of the school. It appears that the swale conveys runoff to a catch basin that discharges directly to the combined sewer. Additional field investigation would be required to verify.
- West Sediment Basin: existing sediment basin located west of the American Little League fields that collects runoff from the vegetated area of the former McCarty Ave Landfill. There are several existing swales that convey runoff to the sediment basin, and it appears that there is an existing pipe network (36-54" dia.) that conveys only stormwater. However, this pipe network connects to the 54" combined sewer main at a point roughly 950-lf west of the First Ave Diversion Chamber. Additional field investigation would be required to verify.

Refer to **Appendix D, Figure 3**, for a map depicting the Watershed Areas Evaluated for Potential Off-Site Improvements.

The following sections outline the base improvements that are proposed as part of the Seventy-Six project, as well as potential off-site improvements that could be implemented in partnership with the City of Albany to broaden the positive impact to the combined sewer system.

3.1 Base Project Improvements

Base On-Site Improvements

The Seventy-Six project is designed to meet Net Zero Water, as well as the ILFI Net Positive Water Imperative. While these are complex certifications, simply put, the project will:

- Employ water reducing fixtures and programs to significantly reduce potable water demand from City infrastructure;
- Harvest, treat and reuse 100% of rainwater on-site for greywater and irrigation applications;
- Treat and reuse on-site as much wastewater as local and state regulations allow for greywater applications; and
- Discharge excess treated wastewater to a new storm sewer within Seymour Street that will connect to the storm relief main.

On-site reuse of 100% of rainwater that falls on the property, will result in a baseline annual reduction of **2.55 MGY** (million gallons per year) of stormwater, which will be eliminated from the combined sewer system.

Base Off-Site Improvements

In addition to the reduction accomplished by reuse, approximately 400-If of separate storm sewer will be constructed within Seymour Street, between Krank Street and Benjamin Street, which will connect to the storm relief main. Excess treated wastewater from the project site will be discharged to the separate storm sewer, to provide capacity relief to the existing 12, 15, and 18" combined sewer mains that surround the project site.

Installation of this storm sewer alignment will also allow for disconnection of stormwater from the following additional off-site areas:

- Southern portion of Leonard Street: will be collected in new catch basins at the intersection of Krank and Seymour Street.
- Krank and Odell Streets: the existing catch basins at the southern ends of each street will be disconnected from the 12" combined sewer mains, replaced with new structures, and conveyed to the new storm sewer.

These off-site improvements will be completed by SED as part of the base project, and will result in an additional reduction of <u>2.95 MGY</u> of stormwater, that will be eliminated from the small diameter combined sewer mains and conveyed to the larger stormwater relief main. Refer to **Appendix D**, **Figure 4**, for a Proposed Off-Site Infrastructure Improvement Plan.

3.2 Potential Off-Site Improvements Led by City

The base project improvements described above are sufficient to meet and exceed the requirements of the City Of Albany for both stormwater and wastewater. However, we've identified additional off-site improvements that could be implemented by the City to broaden the positive impact.

Sanitary Sewer Capacity Improvements – Liebel/Leonard/Seymour Street

The existing combined sewer mains in Liebel Street, Leonard Street, and Seymour Street are 12", 15", and 18", respectively. Stormwater runoff could be disconnected from the small diameter combined sewer mains through the following City led improvements:

- Liebel/Leonard Street: disconnect the existing catch basins at the intersection of the two roads from the combined sewer. Replace the catch basins and extend a new separate storm sewer to the SED constructed storm sewer at the intersection of Krank and Seymour Streets.
- West Swale at School: disconnect the existing catch basin at the bottom of the swale from the combined sewer and convey to the separate storm sewer above.

Sanitary Sewer Capacity Improvements - First Ave/Benjamin St

There is an existing 54" combined sewer main that runs along First Ave, from the American Little League to the First Ave Diversion Chamber. At the intersection of First Ave and Benjamin St, the combined sewer is downsized to a 36" main. This system appears to operate as intended under normal sanitary low-flow conditions, but the capacity is exceeded during high-flow (wet weather) conditions where a portion of the flow is diverted to the 54" storm relief main.

The following potential improvements could be implemented to mitigate the insufficient capacity in the 36" combined sewer:

- Disconnect the Low-Point at Headwall watershed: the existing low point located southwest of the intersection of First Ave and Cherry Hill St, currently discharges through a 15" culvert to the combined sewer. This culvert and headwall are in poor to failing condition. There are existing catch basins in First Avenue directly adjacent to this area, that connect to the 54" storm relief main. The 15" culvert could be replaced in a new headwall, and redirected to the existing catch basins, to provide capacity relief to the 36" combined sewer main.
- Disconnect the West Sediment Basin watershed: extend a separate storm sewer from the sediment basin to the 54" storm relief main, to provide capacity relief to the 36" combined sewer main.
- Provide a 12" overflow from the 36" combined sewer main to the 12" combined sewer main running east in First Ave. If splitting the flow between the 12" and 36" mains does not provide sufficient capacity, then replace the 12" combined sewer main in First Ave from Cherry Hill St to S Pearl St with a larger diameter main.

The above improvements could be implemented in multiple construction phases to provide incremental benefit over time. However, the goal would be to eliminate enough stormwater volume from the combined sewer, to allow the 36" main to convey the full sanitary flow. If that is accomplished, then the First Ave Diversion Chamber could be eliminated.

Stormwater Bypass at Bouck Street Regulator

Following the sanitary sewer capacity improvements outlined above, the 54" storm relief main would operate as a separate storm sewer up until the point that it connects/flows through the Bouck Street Regulator. As such, construction of a stormwater bypass around the Bouck Street Regulator, with connection to the 91" discharge pipe to the Hudson River, would be the final step in successfully establishing a separate stormwater collection system in the South End. While we recognize that there are substantial design, construction, and cost considerations to create this bypass, the benefit to the combined sewer system and the reduction in the volume of overflows to the Hudson River would be significant.

4.0 SUMMARY

The mission of SED is to provide sustainable development that is environmentally conscious, as well as economically and socially considerate. While the sustainable goals of the Seventy-Six are lofty, they are goals that are necessary to revitalize the historic South End neighborhood, and maximize benefit to both the residents and the infrastructure. The evaluation herein, focuses on the most critical environmental concern in Albany, which is the volume and intensity of combined sewer overflows.

As a standalone project, the base improvements that are included in the Seventy-Six project, will result in a reduction of 5.5 MGY of stormwater flow from the City of Albany's combined sewer system through sustainable design and construction of off-site separate storm sewer. However, SED is committed to going further, recognizing that watershed-wide stewardship is the responsibility of our generation. The following provides a summary of each of the watersheds that have been evaluated herein.

Table 1
Summary of Watersheds Evaluated for Off-Site Improvements
& Potential Stormwater Reductions

Watershed Designation	Area (acres)	Annual Precipitation (feet)	Annual Runoff Volume (acre-feet)	Annual Runoff Volume (MGY)
Project Site (Base Project)	2.39	3.28	7.84	2.55
Leonard/Krank/Odell Streets (Base Project)	2.76	3.28	9.05	2.95
Liebel Street	4.80	3.28	15.74	5.13
West Swale at School	6.28	3.28	20.60	6.71
Low Point at Headwall	6.30	3.28	20.66	6.73
West Sediment Basin	15.09	3.28	49.50	16.13
		Base Project S	Stormwater Reduction	5.50
Potential Stor	mwater Re	eduction Through (Off-Site Improvements	34.70

As demonstrated above, collaboration with the City has the potential to eliminate an additional 34.70 MGY of stormwater from the combined sewer system, for a total potential reduction of 40.2 MGY. Through shared investment, we believe the improvements evaluated herein are viable because they will reduce the City's annual sanitary sewer treatment cost and position the City to further expand separate storm sewer infrastructure in the South End. We're excited for the progression and successful completion of the Seventy-Six project, and are looking forward to partnering with the City of Albany to realize the substantial environmental benefits and improved functionality of the combined sewer system.

Appendix A
Bouck Sewershed &
Record Infrastructure
Maps





Environmental & Safety Professionals

Landscape Architects

CHAZEN ENGINEERING, LAND SURVEYING & LANDSCAPE ARCHITECTURE CO., D.P.C.

Dutchess County Office: 21 Fox Street Poughkeepsie, NY. 12601 Phone: (845) 454-3980

Capital District Office: 547 River Street Troy, NY. 12180 Phone: (518) 273-0055

North Country Office: 20 Elm Street Glens Falls, NY. 12801 Phone: (518) 812-0513

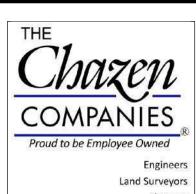
This map is a product of The Chazen Companies. It should be used for reference purposes only. Reasonable efforts have been made to ensure the accuracy of this map. The Chazen Companies expressly disclaims any responsibilities or liabilities from the use of this map for any purpose other than its intended use.

Bouck Sewershed & Partial City of Albany Record Infrastructure Map

City of Albany, Albany County, New York

Drawn:	
	ZFB
Date:	
	08/04/2020
Scale:	
	1:5,000
Project:	
	32019.00
Figure:	
	1





Environmental & Safety Professionals

Landscape Architects

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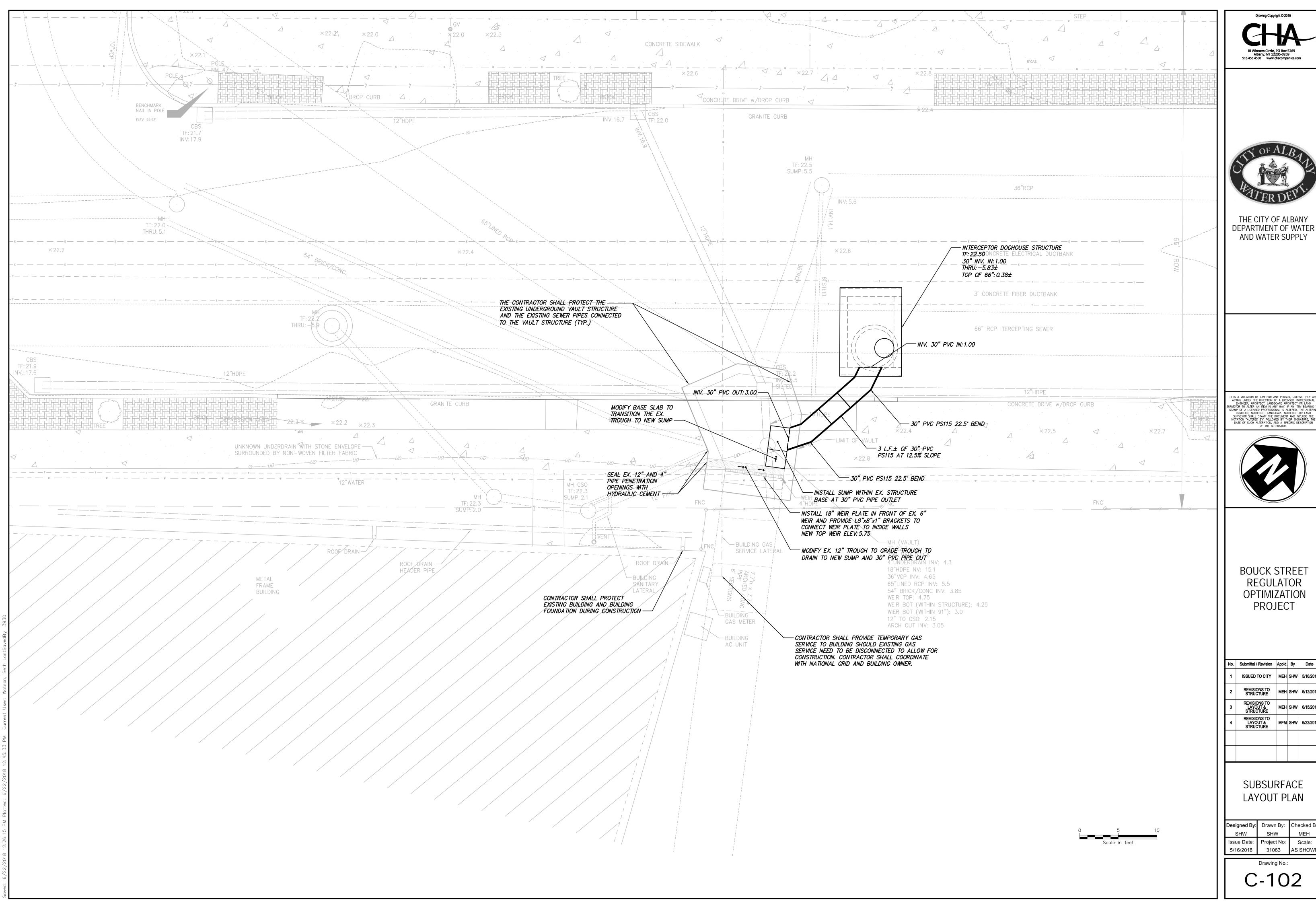
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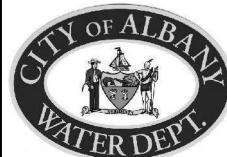
South End Development - The Seventy-Six

Partial City of Albany Record Infrastructure Map

City of Albany, Albany County, New York

Appendix B 2018 Bouck Street Regulator Optimization Project

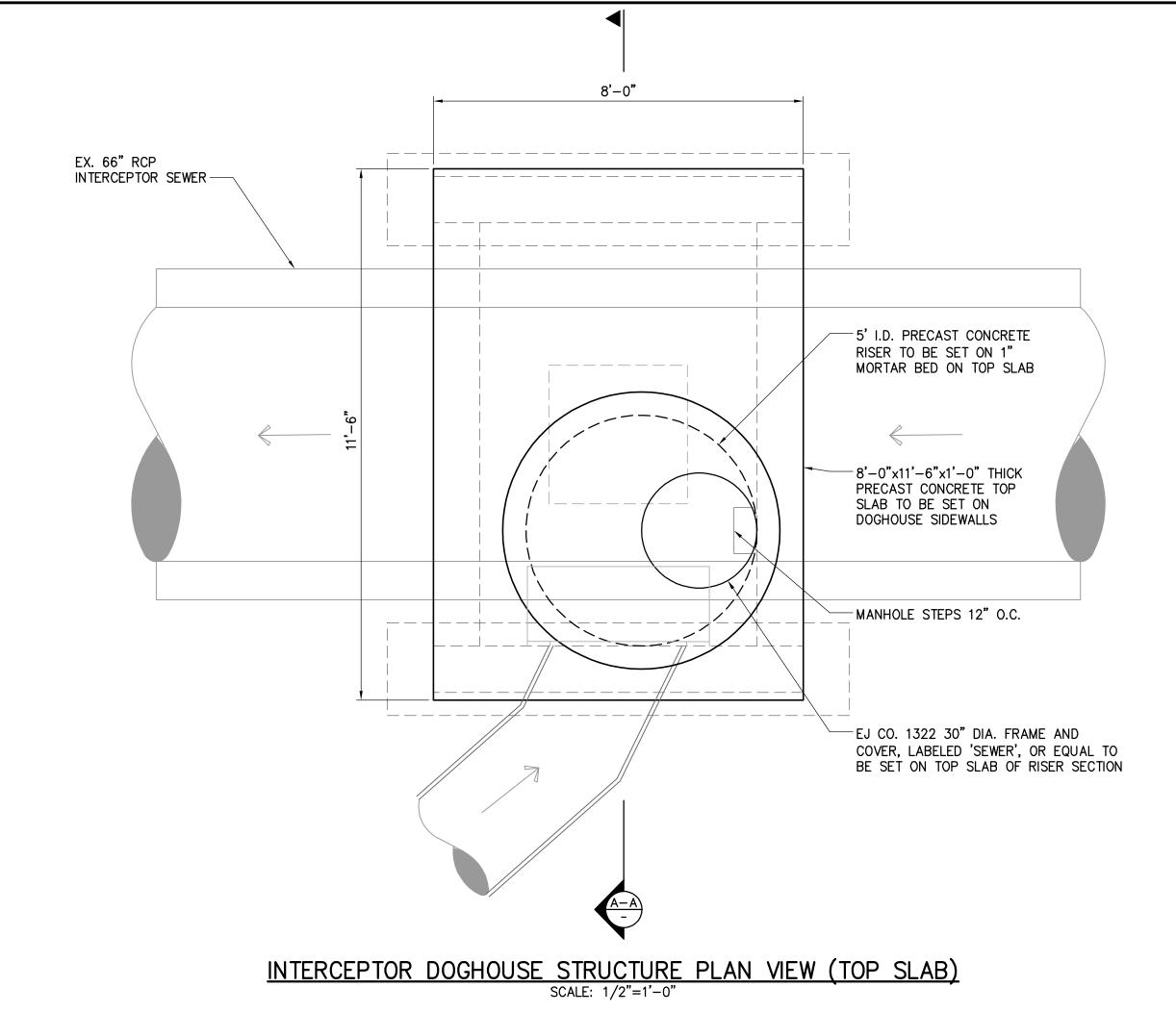


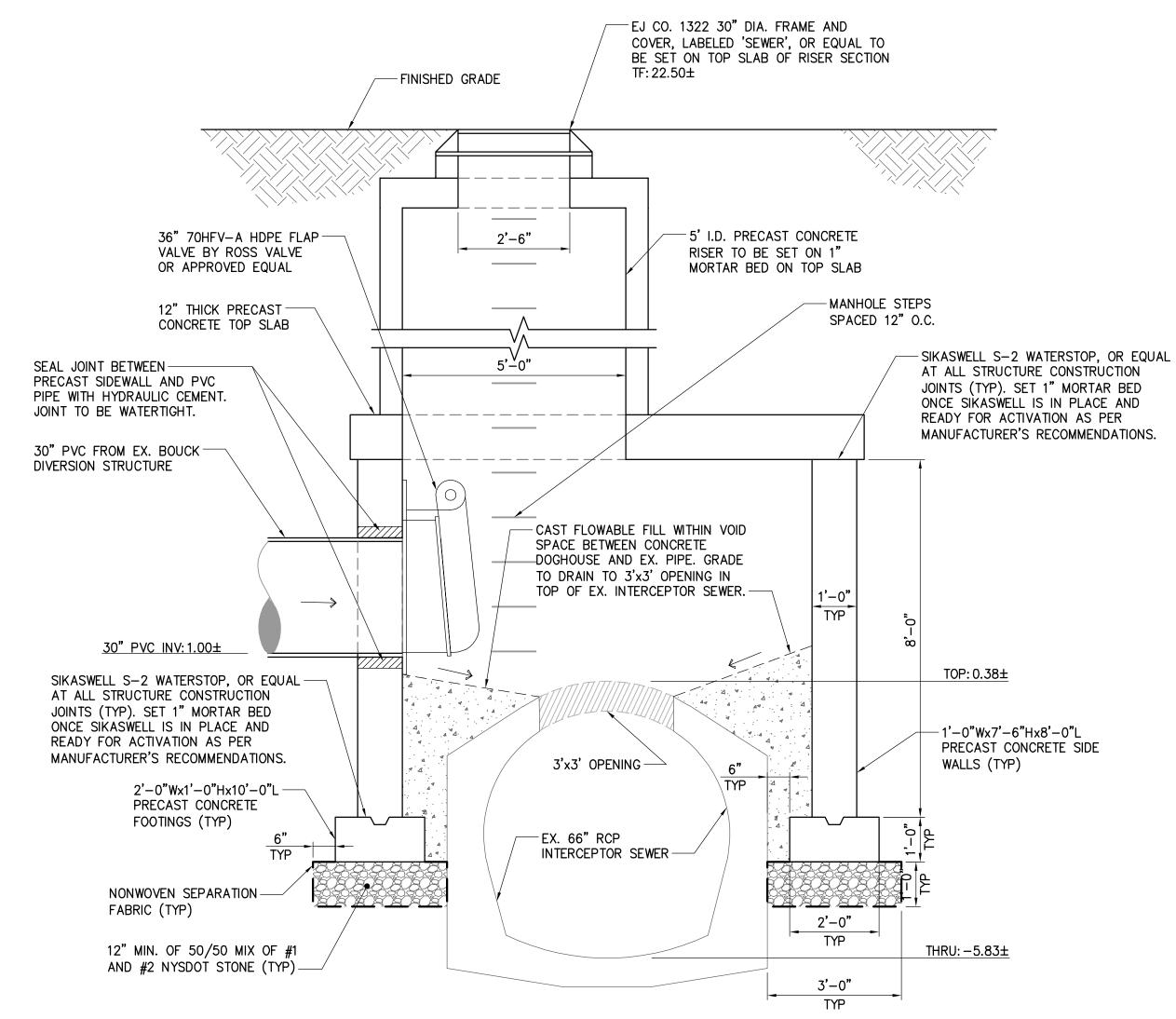




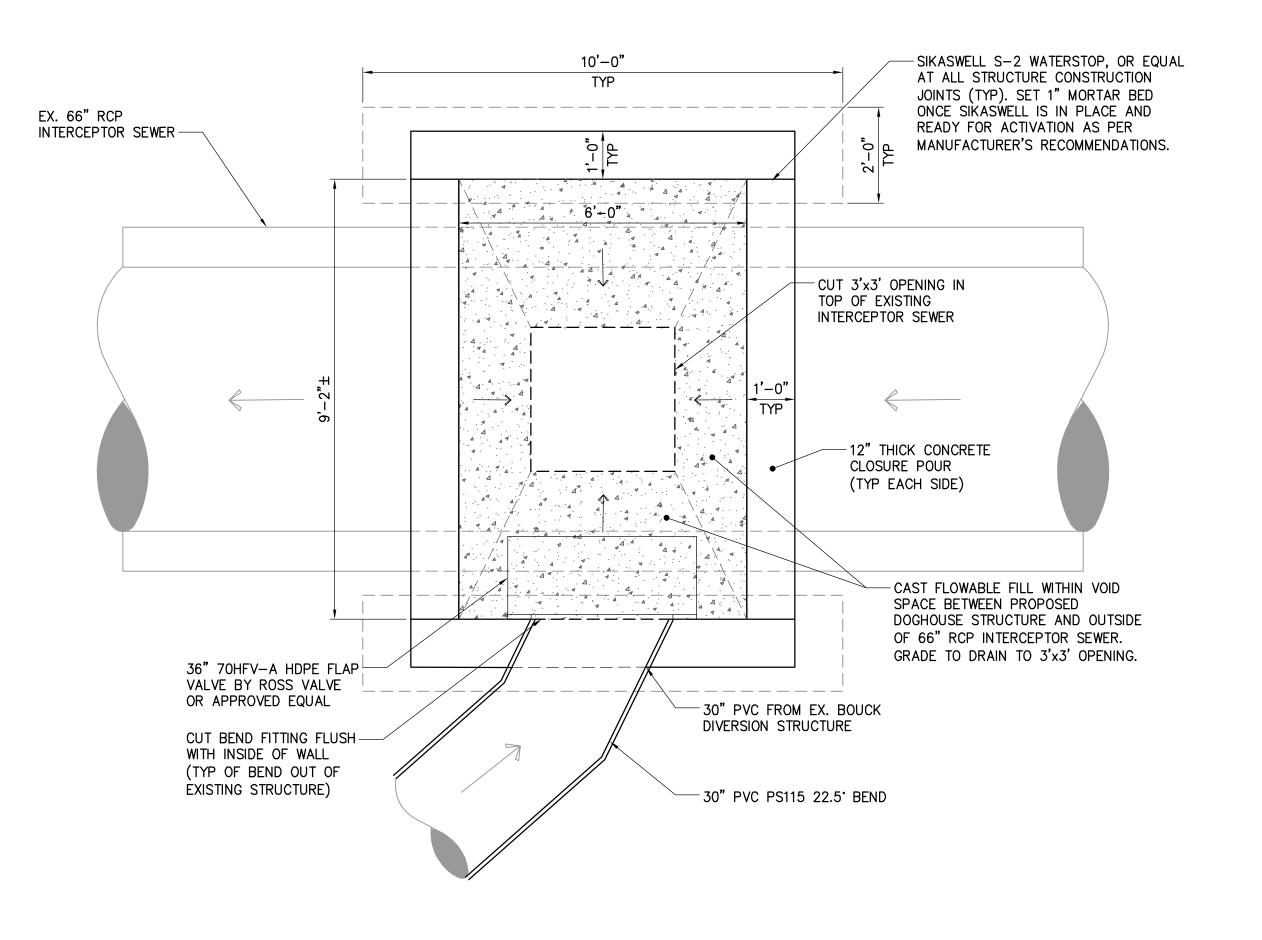
Submittal / Revision	App'd.	Ву	Date
ISSUED TO CITY	MEH	SHW	5/16/2018
REVISIONS TO STRUCTURE	MEH	SHW	6/12/2018
REVISIONS TO			

Designed By:	Drawn By:	Checked By:
SHW	SHW	MEH
Issue Date:	Project No:	Scale:
5/16/2018	31063	AS SHOWN

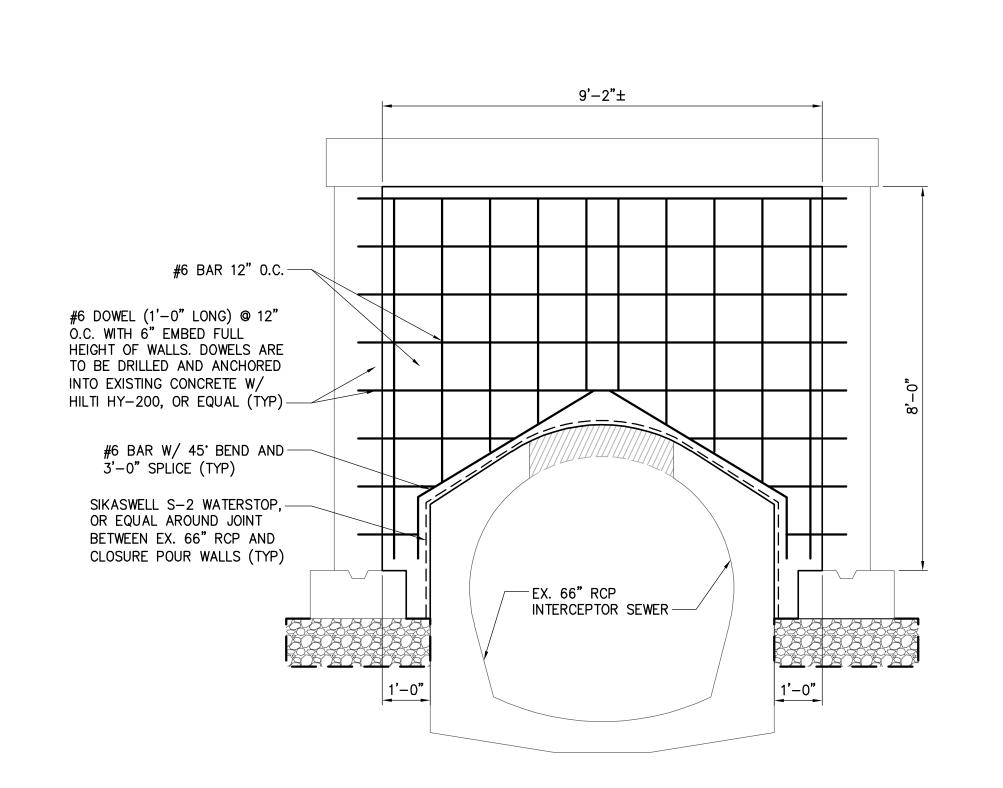




INTERCEPTOR DOGHOUSE STRUCTURE SECTION A-A

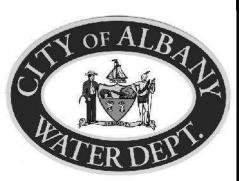


INTERCEPTOR DOGHOUSE STRUCTURE PLAN VIEW (INSIDE STRUCTURE) SCALE: 1/2"=1'-0"



TYPICAL CLOSURE POUR WALL SECTION DETAIL





THE CITY OF ALBANY
DEPARTMENT OF WATER
AND WATER SUPPLY

IT IS A WOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERD BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

BOUCK STREET REGULATOR OPTIMIZATION PROJECT

No.	Submittal / Revision	App'd.	Ву	Date
1	ISSUED TO CITY	MEH	SHW	5/16/2018
2	REVISIONS TO STRUCTURE	МЕН	SHW	6/12/2018
3	REVISIONS TO LAYOUT & STRUCTURE	MEH	SHW	6/15/2018
4	REVISIONS TO LAYOUT & STRUCTURE	MFM	SHW	6/22/2018

INTERCEPTOR
DOGHOUSE
STRUCTURE
DETAILS

Designed By:	Drawn By:	Checked By:	
SHW	SHW	RPC	
Issue Date:	Project No:	Scale:	
5/16/2018	31063	AS SHOWN	

Drawing No.:

S-604

Appendix C First Ave Diversion Chamber Record Maps

CITY OF ALBANY, N.Y. IMPROVEMENT OF SEWERAGE SYSTEM

CONTRACT NO.13

FOR CONSTRUCTING

STORM RELIEF SEWERS

MARCH 1949



PROJECT L

SPECIFICATIONS

The following nates, supplement, alter or revise the Standard Specifications of the City of Albany, N.Y. in accordance with the provisions of the information for Bidders forming part of this contract.

Item i.- Removing, Carting and Storing Old Material shail include the demolition, removal and dispasal of material of existing sewers and oppurtenances, and of sidewalks, as required.

classifications indicated on these Plans. Bid prices shall cover the cast of the concrete pipe as classified.

Item 8 — Cast Iron Pipe, shall meet the regulaments for A.W.W.A.

Class A pipe. The bid price shall include properly paured and caulked

Item 7 - Reinforced Cancrete Pipe; shall canform to the A.S.T.M.

jaints of virgin lead.

item 10- Vitrified Clay Pipe Sewer; shall include the cost of any branches, bends, reducers, increasers, tees or other fittings required

which shall in all cases be measured as straight pipe.

Item 31 - Relaying Curb. The bid price shall include the turnishing of any new straight or circular granite curb necessary to camplete the work and to provide an entire granite curb jab, confarming to the requirements of Items 28-29.

Item 32a - Braken Stane Gement Concrete Sidewalks including Foundation. Sidewalks to be replaced shall conform to this item. Item 42- Replacing Pavement. Pavement to be replaced shall be of the same type as the pavement removed One bid price for this item shall cover the cost of any pavement replaced, regardless of type and shall include all necessary reinforcement and concrete and gravel foundation required Pavement as replaced shall extend

18 inches beyond both sides of the trench.

Item 43a - First Class Concrete-braken stone aggregate.
Item 44a - Second Class Concrete-broken stone aggregate
Item 45o - Third Class Concrete-broken stone aggregate
Payment far concrete in manholes, monolithic sewers, cradies,
special sewer structures and similar work shall be made under the
above appropriate items where called far on the Plans.
Item 48-Broken Stone

Item 49 - Screened Gravel

Poyment shall not be made under these items for moterial used in backfilling trenches ar far underdrain construction but only when such materials are used elsewhere on written order by the Engineer. Item 52 - Misceilaneaus iron and Steel. All reintorcement far structures, except that required for replacing pavement shall be paid far under this item and shall meet the requirements of Item 47 Manhale steps shall be wrought iron heavily hot dipped gaivanized and shall be paid for under this item. The bid price shall include the cast of galvanizing.

Particular attention is called to the necessity that the flow be properly maintained in all existing sewers at all times. The cost of so doing shall be considered as included in the various bid items.

That part of the requirements under the last paragraph, of "Information for Bidders — General Conditions" on Page 17 is waived under this Contract.

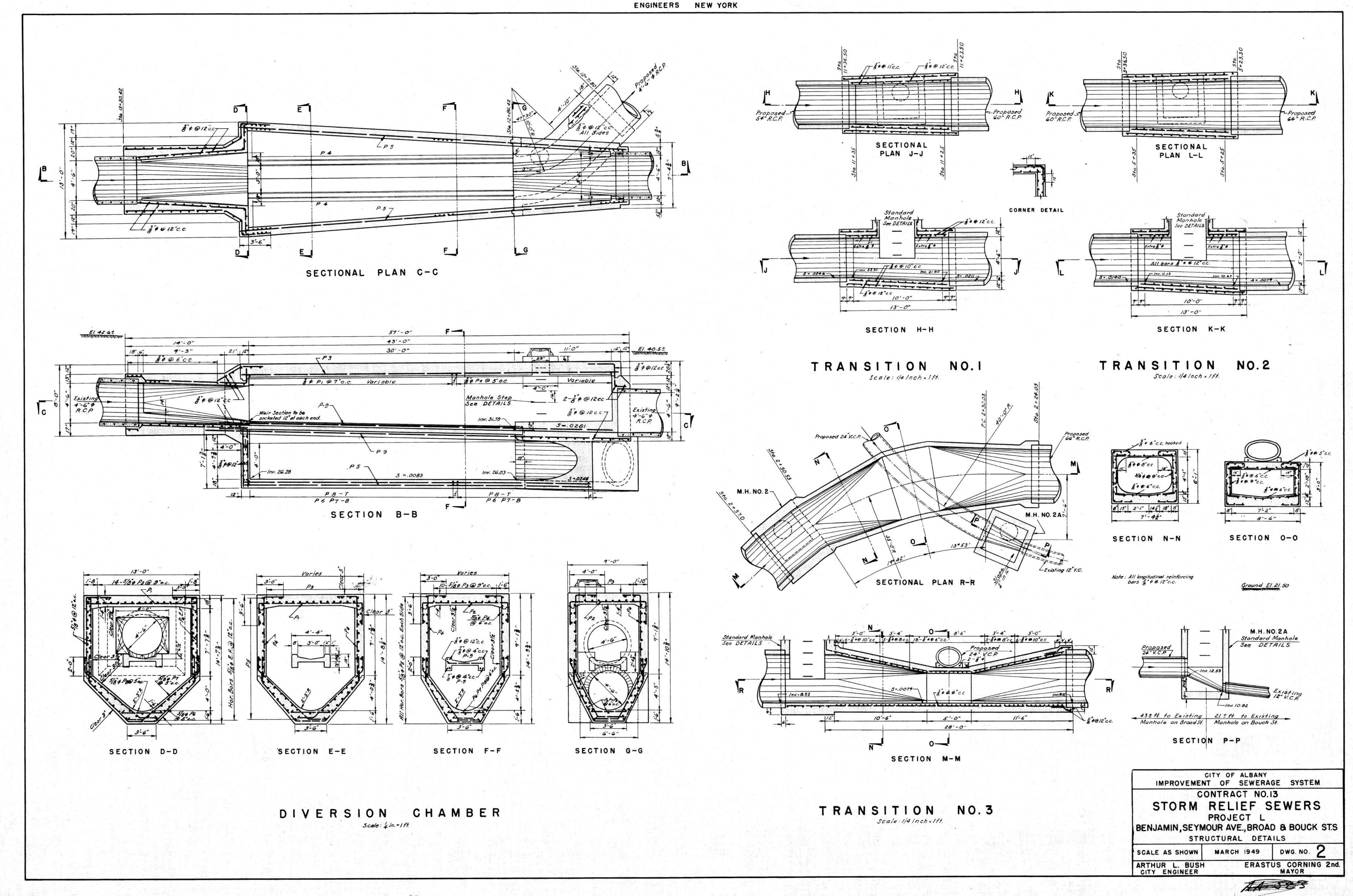
All concrete shall be first class except pipe cradles and concrete refill, which shall be third class.

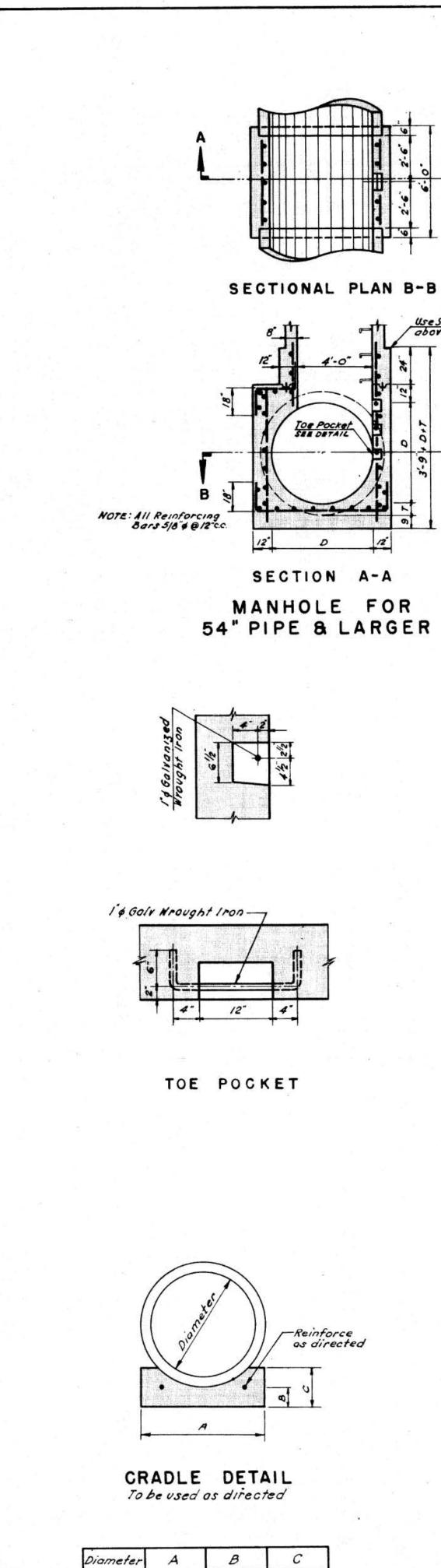
All pipe connections to catch basins shall be concrete culvert pipe-standard strength

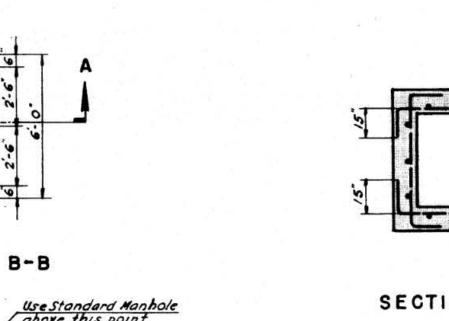
PARSONS, BRINCKERHOFF, HOGAN & MACDONALD

ENGINEERS

NEW YORK

BY _ Sole Differ_ LICENSE NO. 21593 





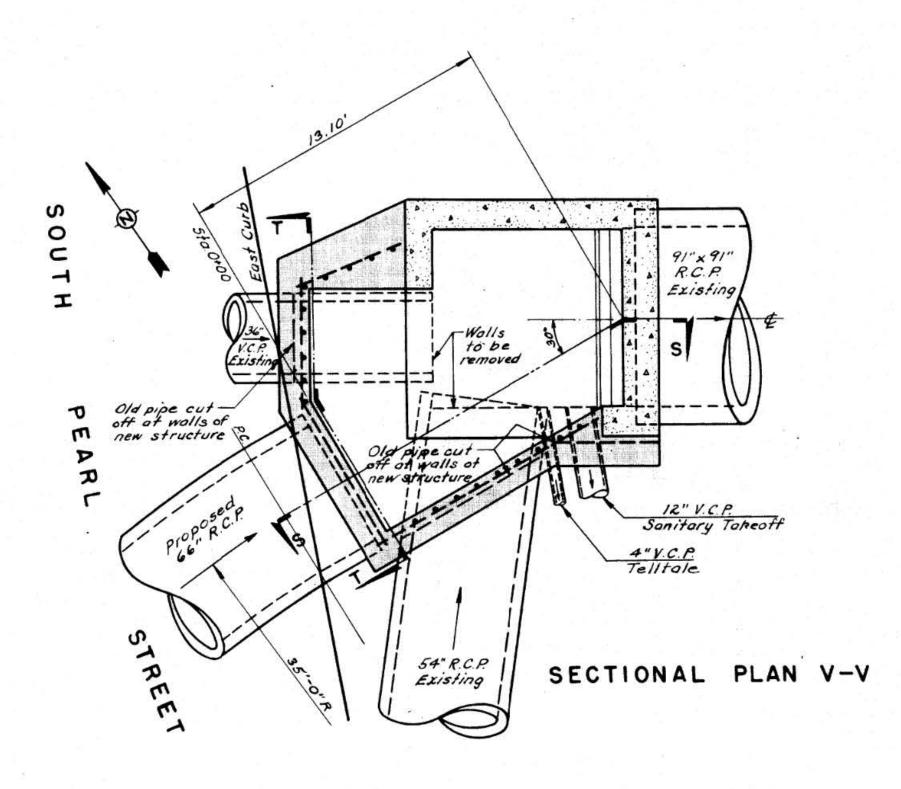
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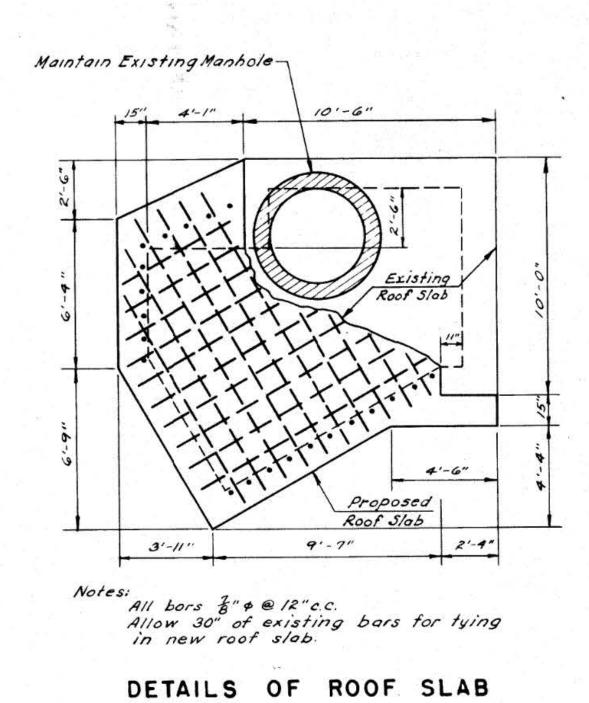
SECTION C-C

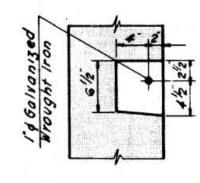
PLAN OF TYPICAL MANHOLE

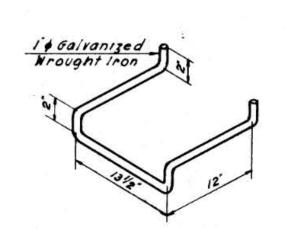
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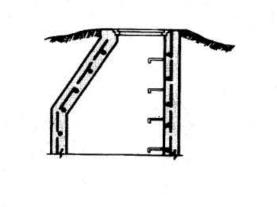
SECTION D-D





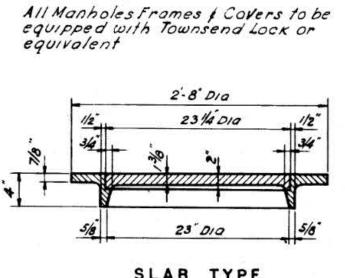


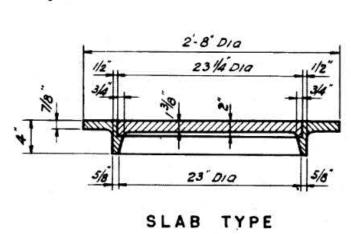


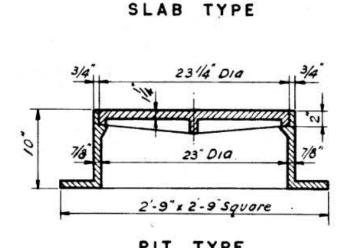


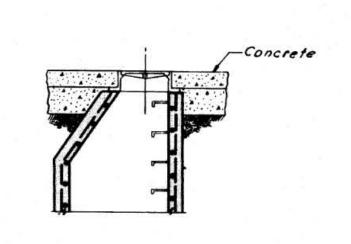
SLAB TYPE MANHOLE

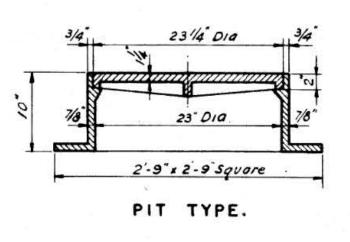
PIT TYPE MANHOLE



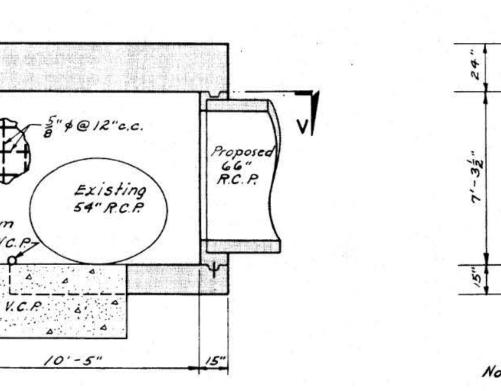








MANHOLE FRAMES & COVERS



.42	_4				
	3. 4 @ 18" 0.0.	Proposed 66" R.C.P.) _	xisting	71-32"
2		\$"•@/2"cc - 6'-4"			, , , , , , , , , , , , , , , , , , ,

SECTION S-S

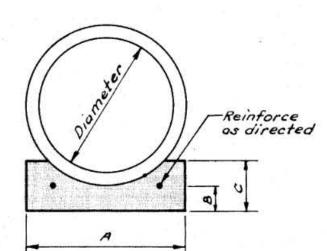
Notes:

Arrangement of bars in base same as in roof.

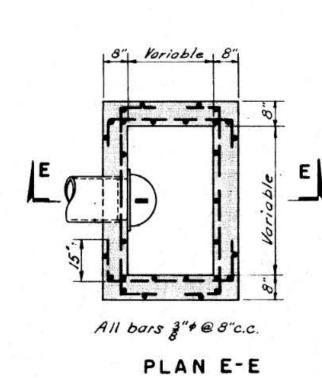
7/2" # @ 12"c.c. to be dowelled 12" into old

base & extending 12" into new base. SECTION T-T

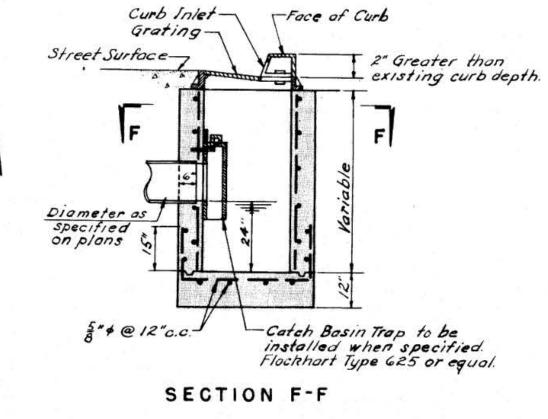
MANHOLE DETAILS



Diameter	A	В	C
12"	16"	4"	8"
15"	20"	4/2	9"
18"	23"	5"	10"
42"	51"	8"	16"
54"	66	10"	20
60"	72"	11"	22"
66"	80"	12"	24"



MANHOLE STEP



CONSTRUCTION JOINT

CATCH BASIN Scale: 3/81n = 1ft.

DETAILS TYPICAL

CHAMBER JUNCTION

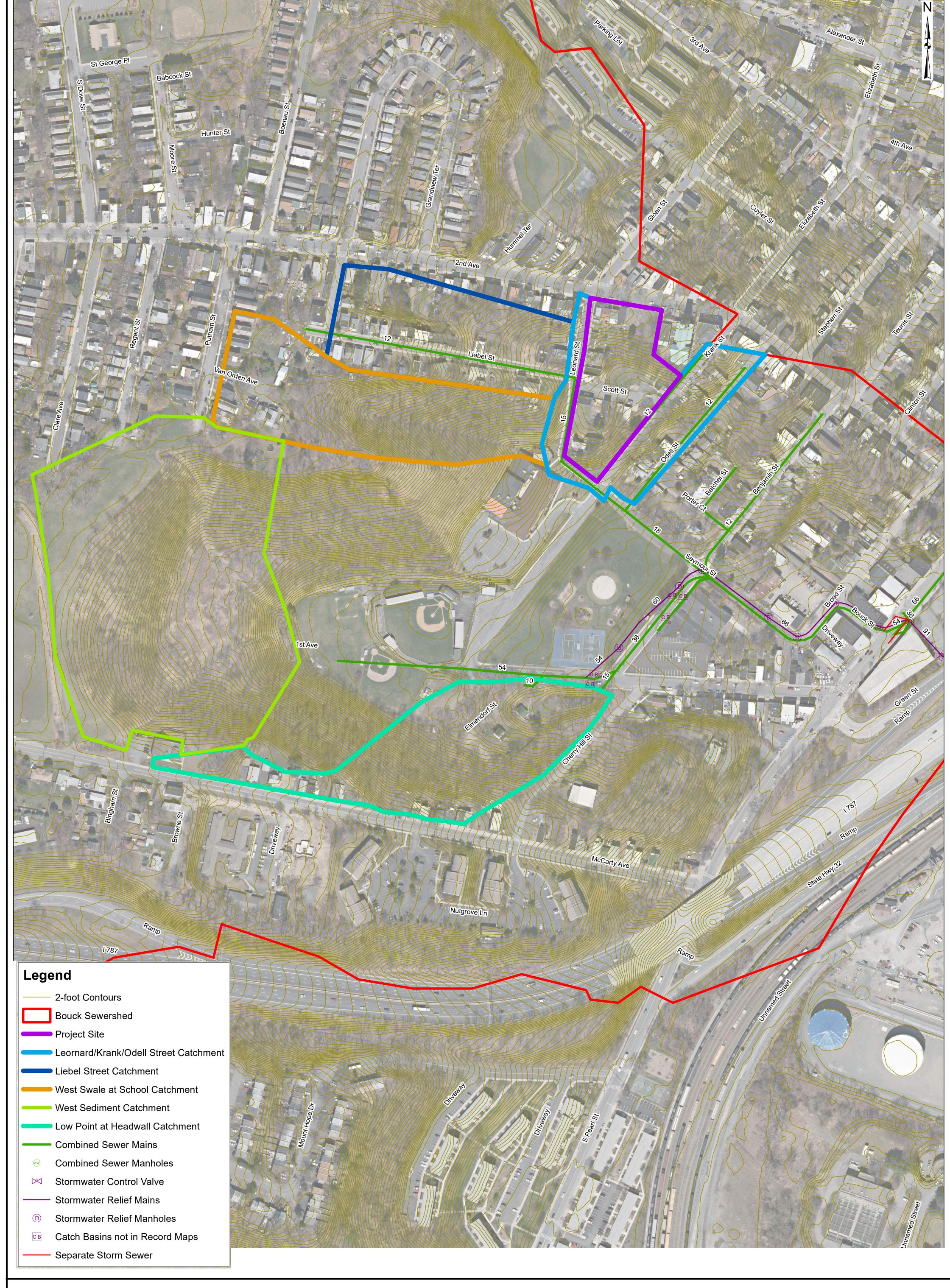
CONVERSION OF EXISTING MANHOLE "A" ON THE MCCARTY AVE. AND BOUCK ST. SEWERS Scale: 4 in = 1 ft.

> CITY OF ALBANY
> IMPROVEMENT OF SEWERAGE SYSTEM CONTRACT NO.13 STORM RELIEF SEWERS PROJECT L BENJAMIN, SEYMOUR AVE., BROAD & BOUCK STS. STRUCTURAL & TYPICAL DETAILS

> MARCH 1949 DWG NO. 3 SCALE AS SHOWN ERASTUS CORNING 2nd ARTHUR L. BUSH



Appendix D
Off-Site Infrastructure
Improvement Plans





Environmental & Safety Professionals

Landscape Architects

CHAZEN ENGINEERING, LAND SURVEYING & LANDSCAPE ARCHITECTURE CO., D.P.C.

Dutchess County Office: 21 Fox Street Poughkeepsie, NY. 12601 Phone: (845) 454-3980 Capital District Office: 547 River Street Troy, NY. 12180 Phone: (518) 273-0055 North Country Office: 20 Elm Street Glens Falls, NY. 12801 Phone: (518) 812-0513

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South End Develoipment - The Seventy-Six

Watershed Areas Evaluated for Potential Off-Site Improvements

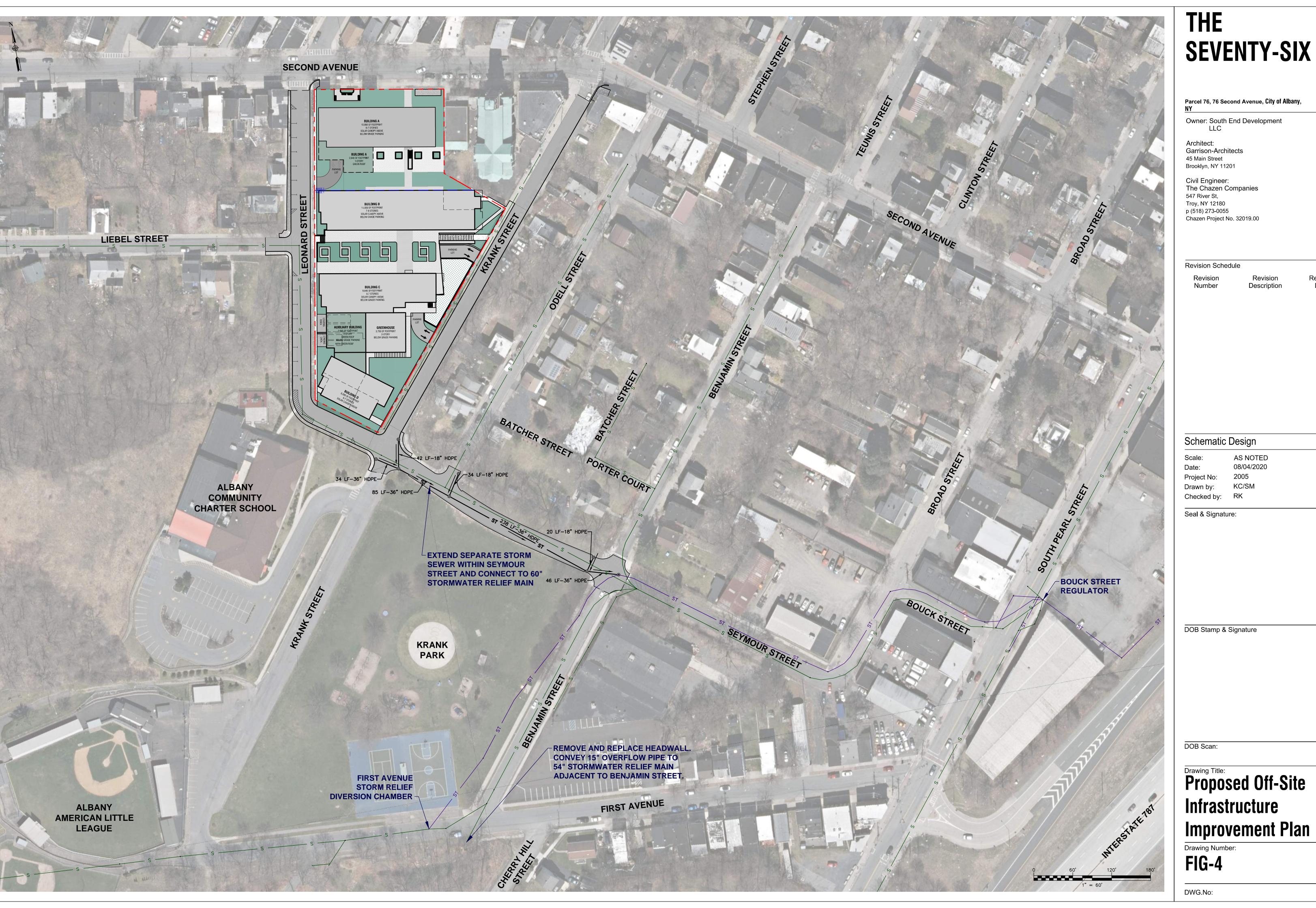
ZFB

Date: 08/04/2020

Scale: 1:1,500

Project: 32019.00

City of Albany, Albany County, New York



SEVENTY-SIX

Parcel 76, 76 Second Avenue, City of Albany,

Revision