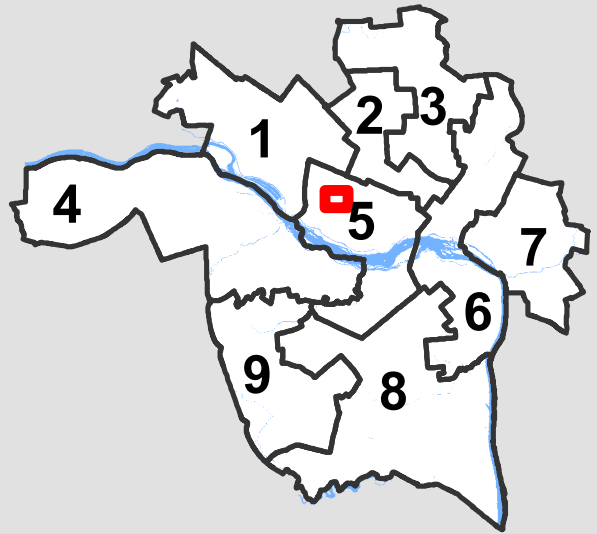




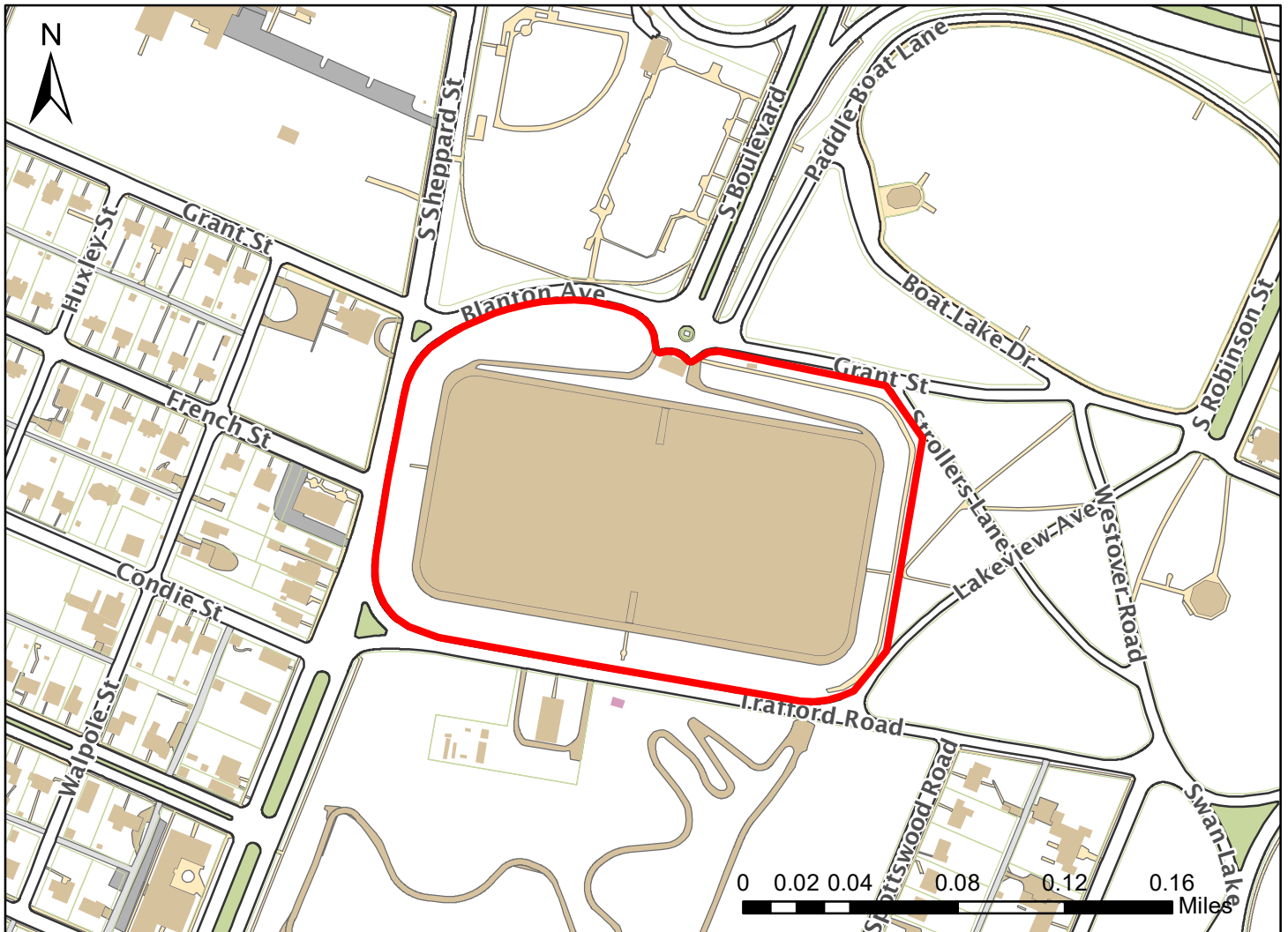
City of Richmond Department of Planning & Development Review

Location, Character, and Extent

LOCATION: 600 S. Arthur Ashe Boulevard
COUNCIL DISTRICT: 5
PROPOSAL: Conceptual review of roof replacements for tanks, from concrete to aluminum.



For questions, please contact Josh Son at 646-3741 or joshua.son@richmondgov.com





Application for URBAN DESIGN COMMITTEE Review

Department of Planning and Development Review
Planning & Preservation Division
900 E. Broad Street, Room 510
Richmond, Virginia 23219
(804) 646-6335

<http://www.richmondgov.com/CommitteeUrbanDesign>

Application Type

- Addition/Alteration to Existing Structure
 New Construction
 Streetscape
 Site Amenity

- Encroachment
 Master Plan
 Sign
 Other

Review Type

- Conceptual
 Final

Project Name: Byrd Park Tanks - Roof Replacement

Project Address: 600 S Arthur Ashe Boulevard, Richmond, VA 23220

Brief Project Description (this is not a replacement for the required detailed narrative) : _____

The project is to replace the tanks existing roofs. The existing concrete roofs are nearing the end of their useful life. The new roofs are proposed to be aluminum geodesic structures.

Applicant Information

(on all applications other than encroachments, a City agency representative must be the applicant)

Name: Steve Morgan Email: Stephen.Morgan@richmondgov.com

City Agency: Department of Public Utilities Phone: (804) 646-8522

Address: 400 Jefferson Davis Highway, Richmond, VA 23224

Main Contact (if different from Applicant): _____

Company: _____ Phone: _____

Email: _____

Submittal Deadlines

All applications and support materials must be filed no later than 21 days prior to the scheduled meeting of the Urban Design Committee (UDC). Please see the schedule on page 3 as actual deadlines are adjusted due to City holidays. **Late or incomplete submissions will be deferred to the next meeting.**

Filing

Applications can be mailed or delivered to the attention of "Urban Design Committee" at the address listed at the top of this page. **It is important that the applicant discuss the proposal with appropriate City agencies, Zoning Administration staff, and area civic associations and residents prior to filing the application with the UDC.**

UDC Background

The UDC is a ten member committee created by City Council in 1968 whose purpose is to advise the City Planning Commission on the design of projects on City property or right-of-way. The UDC provides advice of an aesthetic nature in connection with the performance of the duties of the Commission under Sections 17.05, 17.06 and 17.07 of the City Charter. The UDC also advises the Department of Public Works in regards to private encroachments in the public right-of-way.

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
BYRD PARK TANK ROOF REPLACEMENT

Project Description – Conceptual Review

February 14, 2019

The existing Byrd Park Reservoir is located at the southern end of the Arthur Ashe Boulevard in Byrd Park. This water storage reservoir is familiar to many residents because of the 20-foot high earthen berm that forms the reservoir walls and is a little over 8 acres in size.

The Byrd Park Reservoir was built in 1876 and was provided with a prestressed concrete roof in the early 1970s that fully enclosed the open-air reservoir to form two 25 million gallon tanks. The existing concrete tank roof is reaching the end of its useful life and is being scheduled to be replaced by two new aluminum roofs.

The Department of Public Utilities plans to upgrade this water storage facility with the following improvements in addition to the tank roof replacement:

- Replacing existing tank outlet gates
- Upgrading tank overflow piping systems
- Replacing existing tank inlet and outlet valves
- Constructing new City Zone 2 North Transmission Main around the tanks for improved system reliability and redundancy
- Providing tank security system enhancements
- Providing tank ventilation system improvements
- Providing new tank mixing systems for water quality enhancement
- Constructing a new electrical and control building
- Providing other water storage facility upgrades and improvements.

In order to provide adequate roof drainage, the proposed new aluminum tank roofs will have a slightly higher level at their center than the existing concrete roofs. The new roofs will only be slightly more visible than the existing roofs because of the height of the existing earthen berms that surround the tanks. It is planned that the old concrete stairs on the east and west side of the tanks be removed to improve park user safety levels. The existing concrete stair on the south side of the tanks will be replaced by a new upgraded concrete stair to allow the operator safer access to the tanks.

The tanks will be provided with new overflow systems that need free discharge vents at grade level at the tank earth berms. It is proposed that each overflow vent be provided with small structural security enclosure that is recessed into the earthen berms to minimize park user impacts. These overflow vent structures will have architectural cast stone exterior walls that are similar to the Columbus Pumping Station Electrical Building that is located on the northwest corner of the existing tank earth berm.

The two northern access drives from Arthur Ashe Boulevard and the fencing system around the top of the tank earthen berms will not be significantly altered by this project. It is planned that two existing northern access drives from Arthur Ashe Boulevard will be used for removal of the existing concrete roofs and construction of the two new aluminum roofs and for making other water storage tank upgrades and improvements. The use of these existing tank access drives, for construction traffic, will limit project impacts on park users. The existing cobblestone pavers at the Arthur Ashe Boulevard entrances will be

removed during construction and then replaced when the project access work to the tanks has been completed.

The proposed tank valve replacements and piping system improvements on the east side of the Trafford Pumping Station will be routed through the park to minimize overall impacts, but it is expected that some existing tree removals will be needed. It is planned that some new trees will be provided at better locations within the park.

The estimated construction costs for the tank roof replacement project is \$40,500,000. The City of Richmond, Department of Public Utilities will finance this project from their Capital Budget. The City is planning to initiate construction on this project in the fall of 2019.

BYRD PARK TANK ROOF REPLACEMENT

PROJECT SUMMARY:

The City of Richmond is replacing the roofs on the 50 million gallon finished water storage facility located at the southern end of the Arthur Ashe Boulevard in Byrd Park.

The Byrd Park Reservoir was built in 1876 and was provided with a prestressed concrete roof in the early 1970s to fully enclose the open-air reservoir to form two basins. The existing concrete tank roof is reaching the end of its useful life and is being replaced by two new aluminum roofs. The existing and proposed tank roofs are shown below.



Existing
Concrete
Roof



Proposed
Aluminum
Roofs

WHAT'S HAPPENING NOW:

Preliminary conceptual design for the replacement of the tank roof is underway. Also underway is preliminary design of the valve, piping and other facility improvements related to the replacement of the tank roofs and other facility improvements.

PROJECT SCHEDULE:

Tank Utility Valves and Piping:

April 2019 through December 2019

West Tank Roof Replacement:

January 2020 through December 2020

East Tank Roof Replacement:

January 2021 through December 2021

Site Restoration and Final Landscaping:

January 2022 through June 2022

Mayor Levar M. Stoney



CITY OF RICHMOND

DEPARTMENT OF PUBLIC UTILITIES



Byrd Park Tank Roof Replacement – FAQ

What is the purpose of the project?

The Byrd Park Tank concrete roofs are about 46 years old and are reaching the end of their useful life. The rehabilitation of the existing tank roof is not considered cost effective and therefore the tank roofs will be replaced by new aluminum roofs. The tank roof replacement and other facility improvements are being implemented so that the City continues to provide high-quality water and distribution of water to customers.

How will tank roof removal and new roof construction impact my water service?

The two tank roofs will be replaced one at a time with one tank being maintained operational at all times. With this sequence of construction, we do not anticipate any water service disruptions.

Will this work impact access to the Byrd Park area?

The construction project will be within a fenced area and public access to the construction site will not be allowed due to safety considerations. A walkway will be maintained around the reservoir and full use and access to the park will remain unchanged during construction, except during short, localized disruptions.

Will this work impact traffic in the area?

The work is adjacent to public roads and some short-term lane closures will be needed. Lane closures will be scheduled for minimum disruption during peak traffic hours.

Will this work impact on-street parking?

During construction, on-street parking on Police Memorial Way will be restricted on the south side during short periods. Lane closures and restricted parking may span over multiple days. Depending on weather and construction progress, on-street parking may also be limited over the weekend. Signs will be posted 2 days before the work starts. Remaining streets should remain unaffected.

Will school bus traffic be affected?

The work will not affect school bus traffic or existing school bus routes.

When will this work be performed?

The City of Richmond's Department of Public Utilities anticipates that the work will mainly be performed between the hours of 8:00 a.m. to 5:00 p.m., Monday through Friday. Some isolated construction tasks may need to be performed after-hours or on weekends when water demands are reduced.

How long will it take?

Existing tank roof replacement is expected to take about 24 months and about 6 months will be needed for final site restoration and landscaping.

What environmental permits are needed?

Environmental permits required are Erosion Control and Sedimentation Permit and Stormwater Permit.

Will the tank be drained?

Each tank will be drained prior to the start of tank roof removal. Drain water will be treated, dechlorinated, and discharged to Boat Lake through the existing tank drain system.

Will the site be fenced?

The site will be fenced with the existing tank fencing and temporary fencing for facility security and safety.

**IF YOU HAVE QUESTIONS,
CONCERNS OR COMMENTS ABOUT
THE PROJECT, PLEASE CONTACT:**

**Steve Morgan
Project Manager**

Department of Public Utilities
Technical Services Division
804-646-8522

Stephen.Morgan@richmondgov.com

Mayor Levar M. Stoney



CITY OF RICHMOND
DEPARTMENT OF PUBLIC UTILITIES



MEDIA CONTACT:

**Angela D. Fountain
Public Information Manager II**

Department of Public Utilities
Communications Division
804-646-7323

Angela.Fountain@richmondgov.com



Byrd Park Water Storage Tanks Roof Replacement Area Plan



**CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES**

**BYRD PARK WATER STORAGE TANKS
ROOF REPLACEMENT PROJECT
CONCEPTUAL DRAWINGS**



DRAWING INDEX

SHEET NUMBER	DRAWING NUMBER	DESCRIPTION
1	--	COVER
2	P1	AREA PLAN
3	P2	EXISTING UPPER PLAN
4	P3	EXISTING LOWER PLAN
5	P4	EXISTING TANK SECTION
6	P5	PROPOSED UPPER PLAN
7	P6	PROPOSED LOWER PLAN
8	P7	PROPOSED SECTIONS
9	P8	PROPOSED SOUTHWEST AERIAL VIEW
10	P9	PROPOSED STREET VIEWS
11	P10	PROPOSED STREET VIEWS
12	P11	NORTH JUNCTION WELL PLAN AND SECTION
13	P12	SOUTH JUNCTION WELL PLAN AND SECTION
14	P13	TANK OVERFLOW SECTION AND PROFILE
15	P14	TANK SECTIONS
16	P15	JUNCTION WELL SLUICE GATE DIAGRAMS
17	P16	BYRD PARK TANK SUPPLY SYSTEM
18	P17	ZONE 1N SUPPLY SYSTEM

VICINITY MAP

SCALE: 1" = 1200'



GREELEY AND HANSEN

9020 STONY POINT PARKWAY, SUITE 475
RICHMOND, VIRGINIA 23235

JANUARY 2019

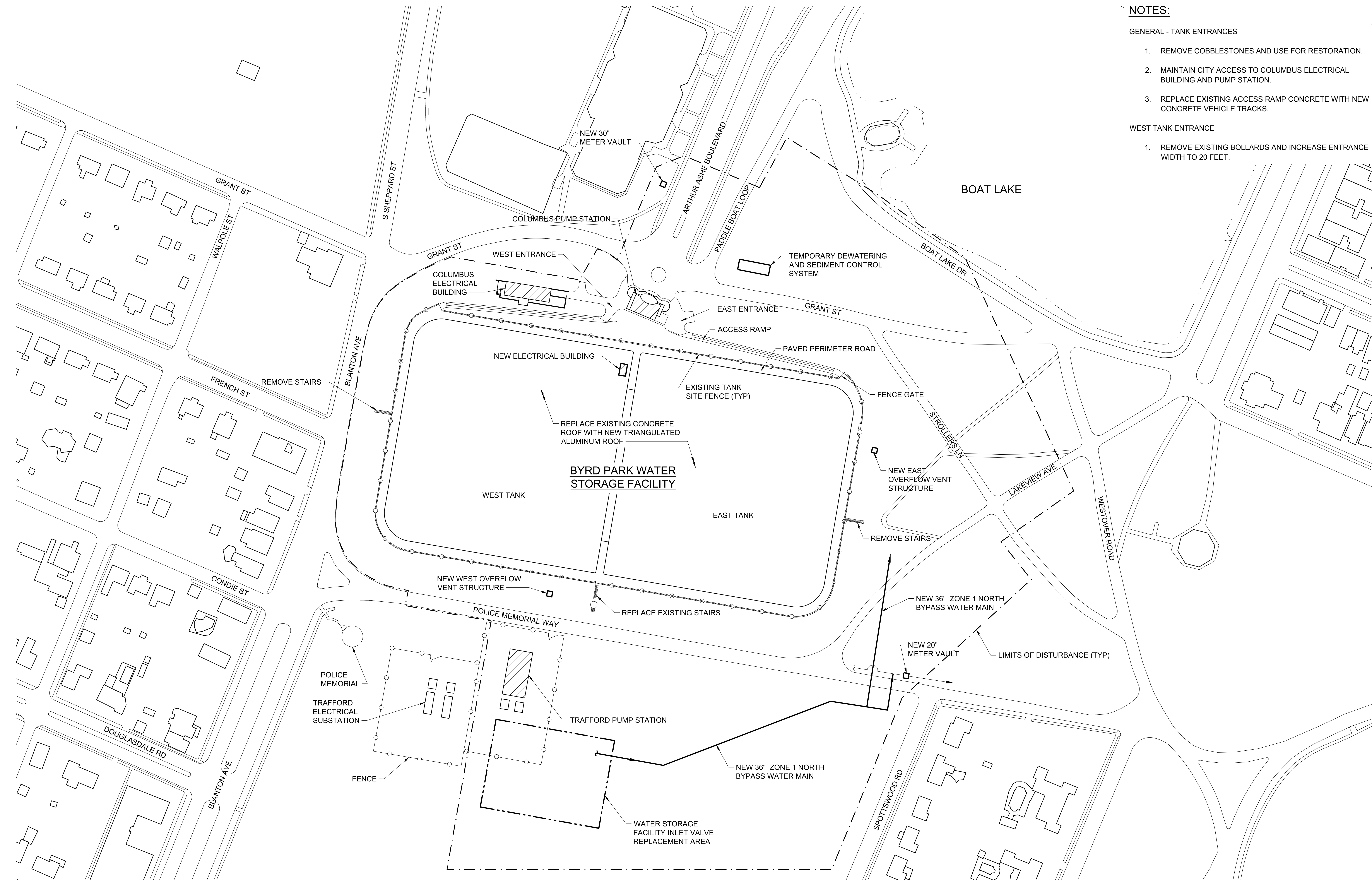
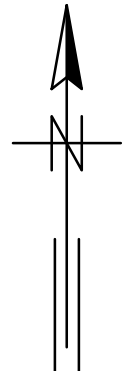
NOTES:

GENERAL - TANK ENTRANCES

1. REMOVE COBBLESTONES AND USE FOR RESTORATION.
2. MAINTAIN CITY ACCESS TO COLUMBUS ELECTRICAL BUILDING AND PUMP STATION.
3. REPLACE EXISTING ACCESS RAMP CONCRETE WITH NEW CONCRETE VEHICLE TRACKS.

WEST TANK ENTRANCE

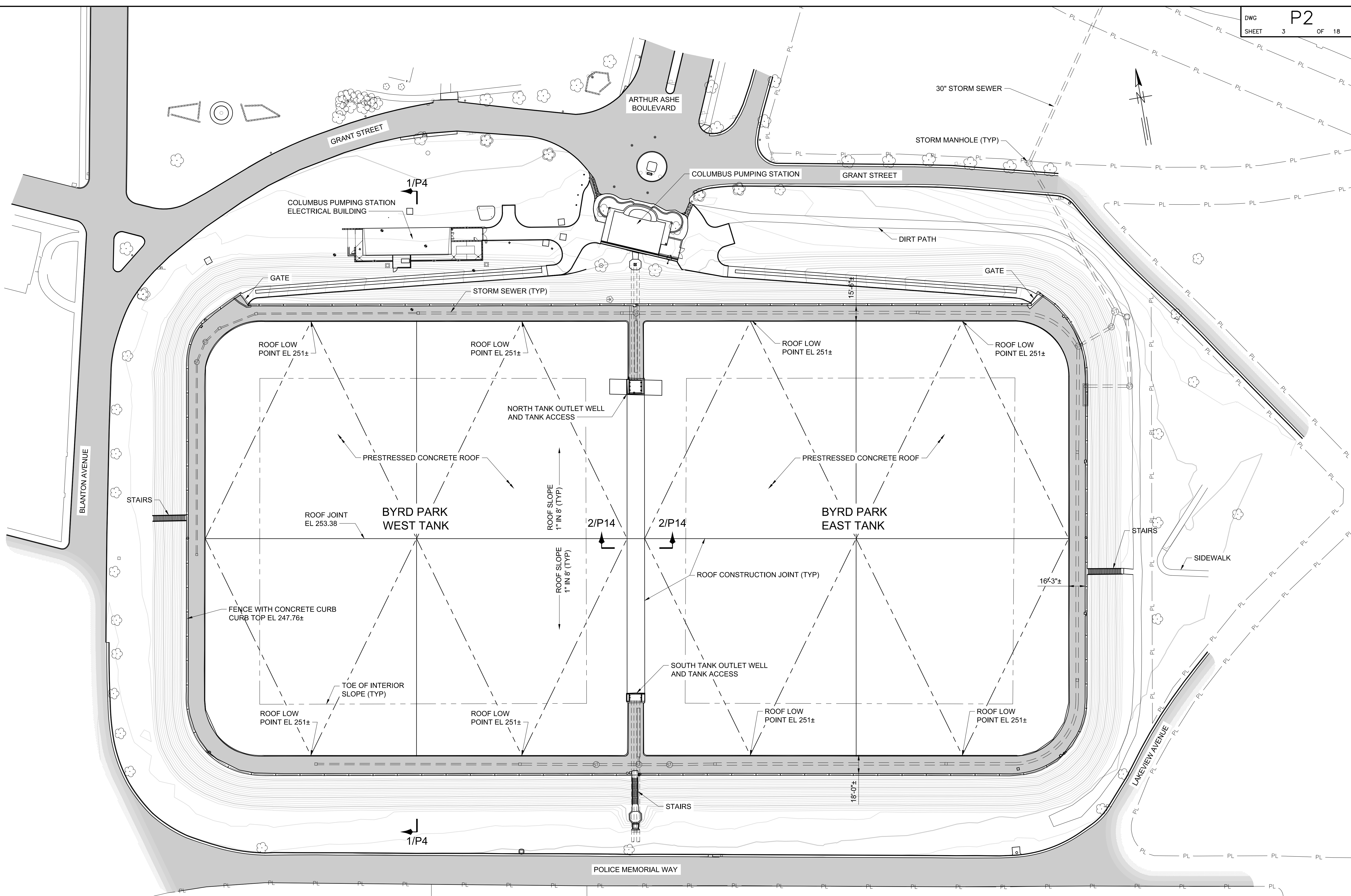
1. REMOVE EXISTING BOLLARDS AND INCREASE ENTRANCE WIDTH TO 20 FEET.



AREA PLAN
SCALE: 1" = 80'

S:\0218 - RICHMOND WATER ENG SERVICES 02189 BYRD PARK TANK REHAB 21 CADDD 21.04 PRESENTATIONS RC908-0P01 2019/02/13 11:30 AM HEBBE, DAVID

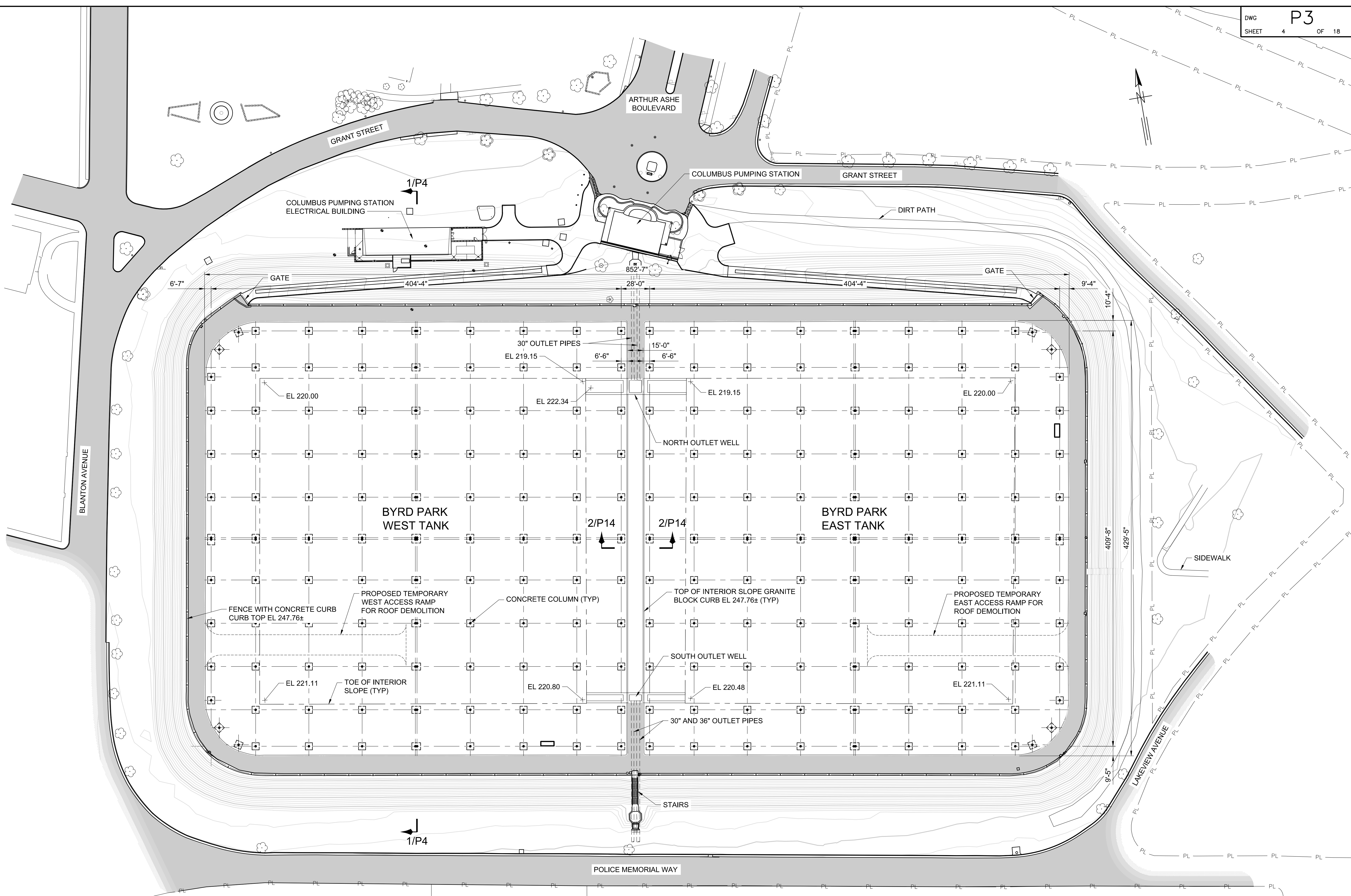




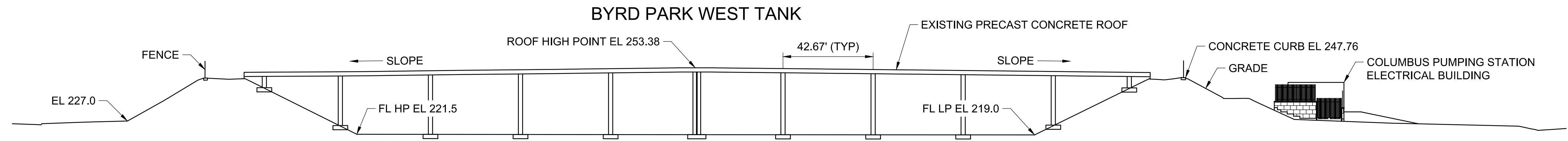
EXISTING UPPER PLAN
SCALE: 1" = 40'

S:\0218_RICHMOND\WATER ENG SERVICES\02189\BYRD PARK TANK REHAB\21 CAD\21.04 PRESENTATIONS\UPPER PLANS_2019\02\13_11:32 AM_HEBEE_DAVID

S:\0218_RICHMOND\WATER ENG SERVICES\02189\BYRD PARK TANK REHAB\21 CAD\21.04 PRESENTATIONS\LOWER PLANS 2019\02\13 11:36 AM HEBBE, DAVID



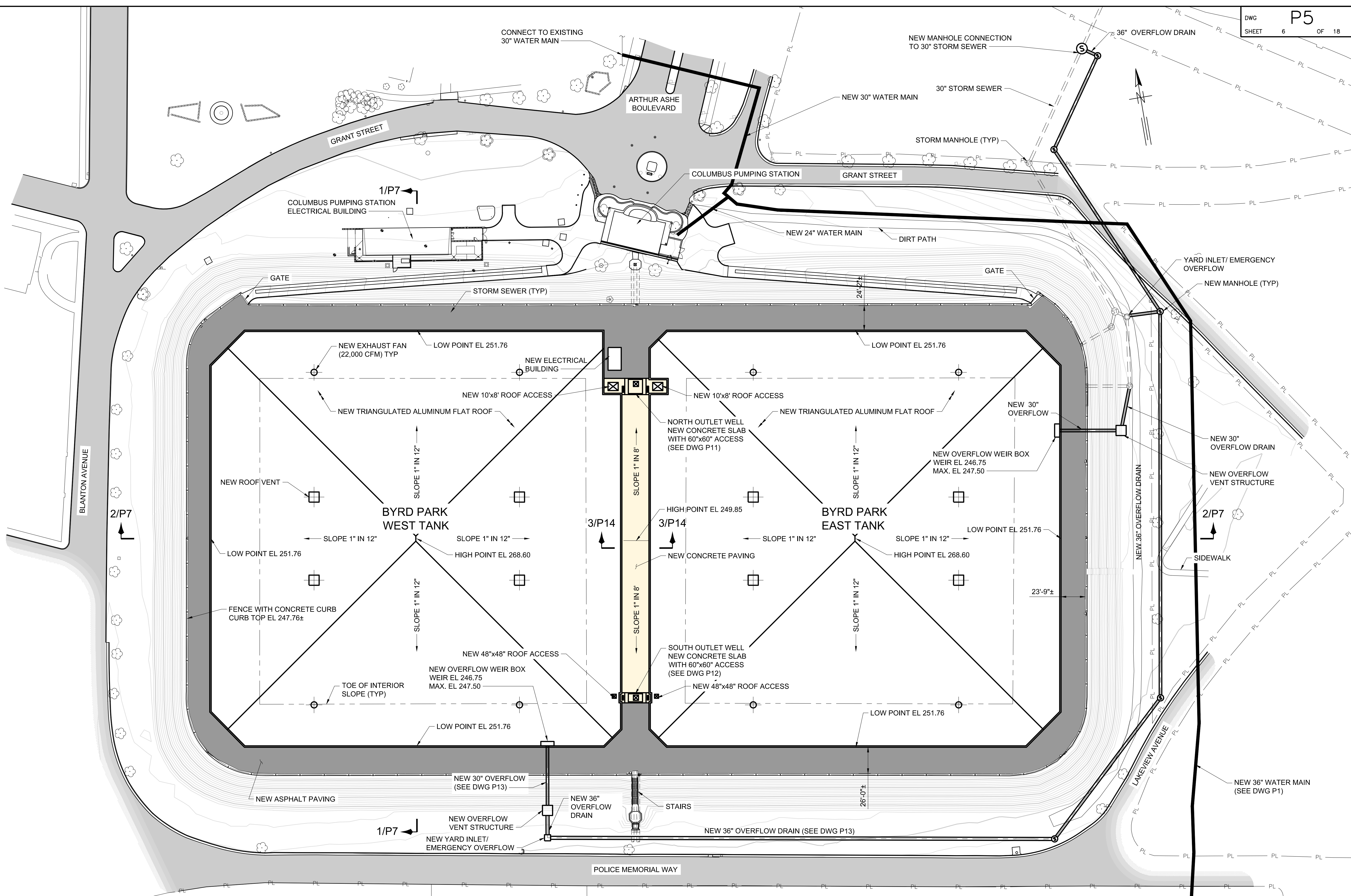
EXISTING LOWER PLAN
SCALE: 1" = 40'



SECTION 1/P2, P3
EXISTING TANK SECTION
SCALE: 1" = 30'

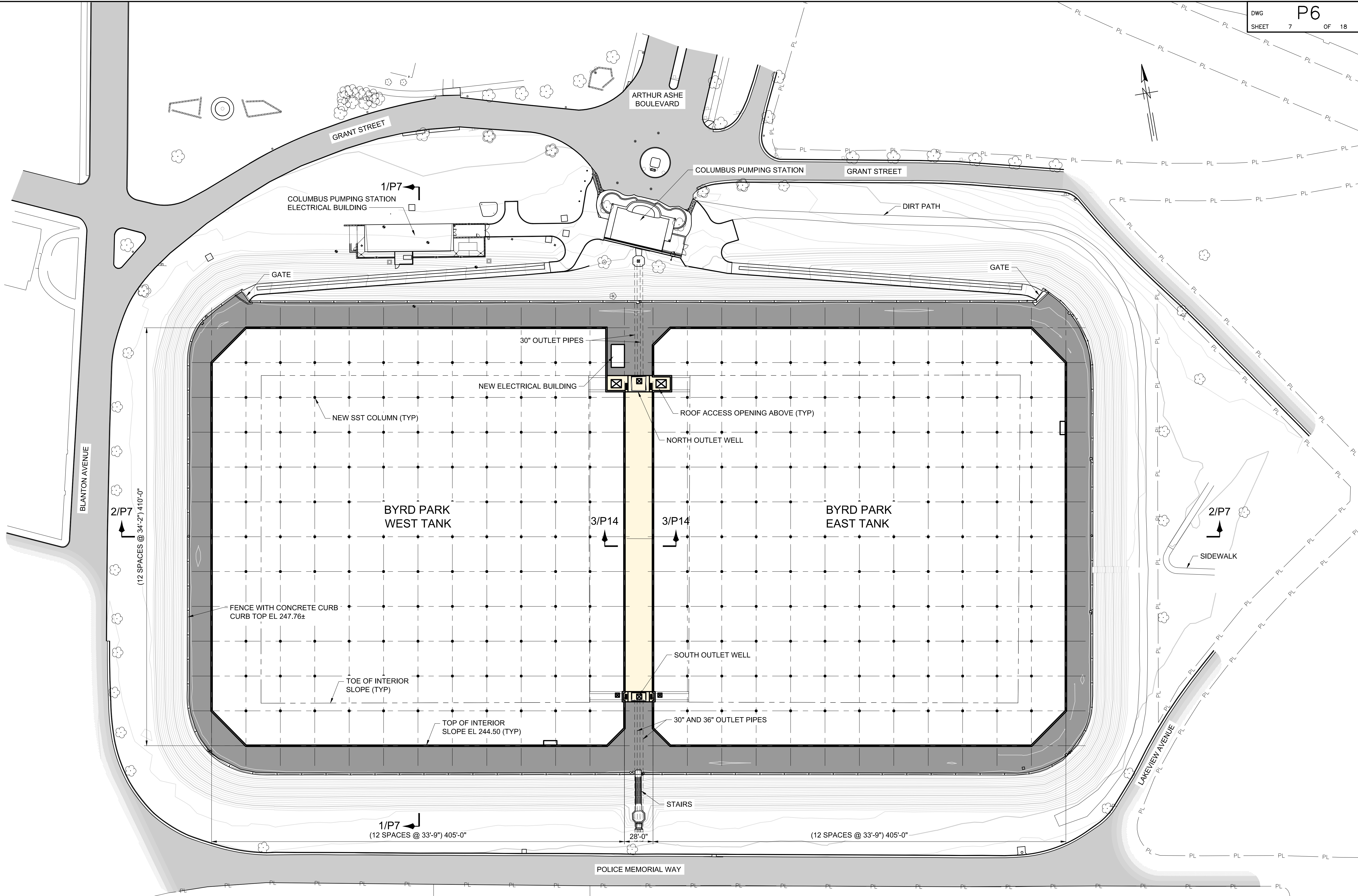
S:\0218\02189\WATER ENG SERVICES\02189\BYRD PARK TANK REHAB\21.04 PRESENTATIONS\SECTIONS - 2019\02\04 - 5:48 PM - HEBBE.DAVID

S:\0218_RICHMOND\WATER ENG SERVICES\02189\BYRD PARK TANK REHAB\21 CAD\21.04 PRESENTATIONS\UPPER PLANS 2019\02\13 11:33 AM HEBBE, DAVID



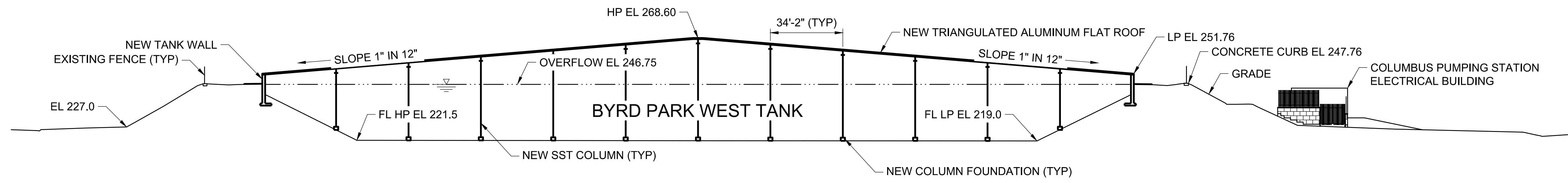
PROPOSED UPPER PLAN
SCALE: 1" = 40'



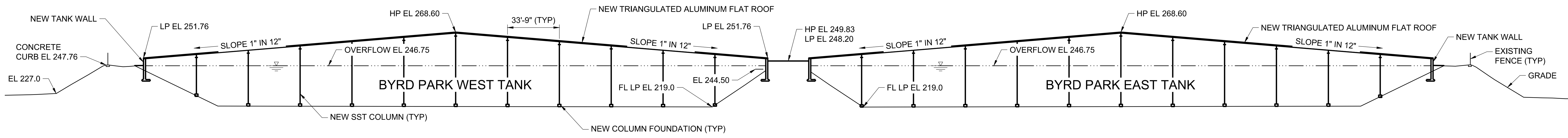


PROPOSED LOWER PLAN
SCALE: 1" = 40'

S:\0218_RICHMOND\WATER ENG SERVICES\02189\BYRD PARK TANK REHAB\21 CAD\21.04 PRESENTATIONS\LOWER PLANS_2019\02\13_11:41 AM_HEBEE_DAVI



SECTION 1/P5, P6
 PROPOSED WEST TANK
 SCALE: 1" = 30'



SECTION 2/P5, P6
 PROPOSED WEST AND EAST TANK
 SCALE: 1" = 30'

PROPOSED TANK SECTIONS

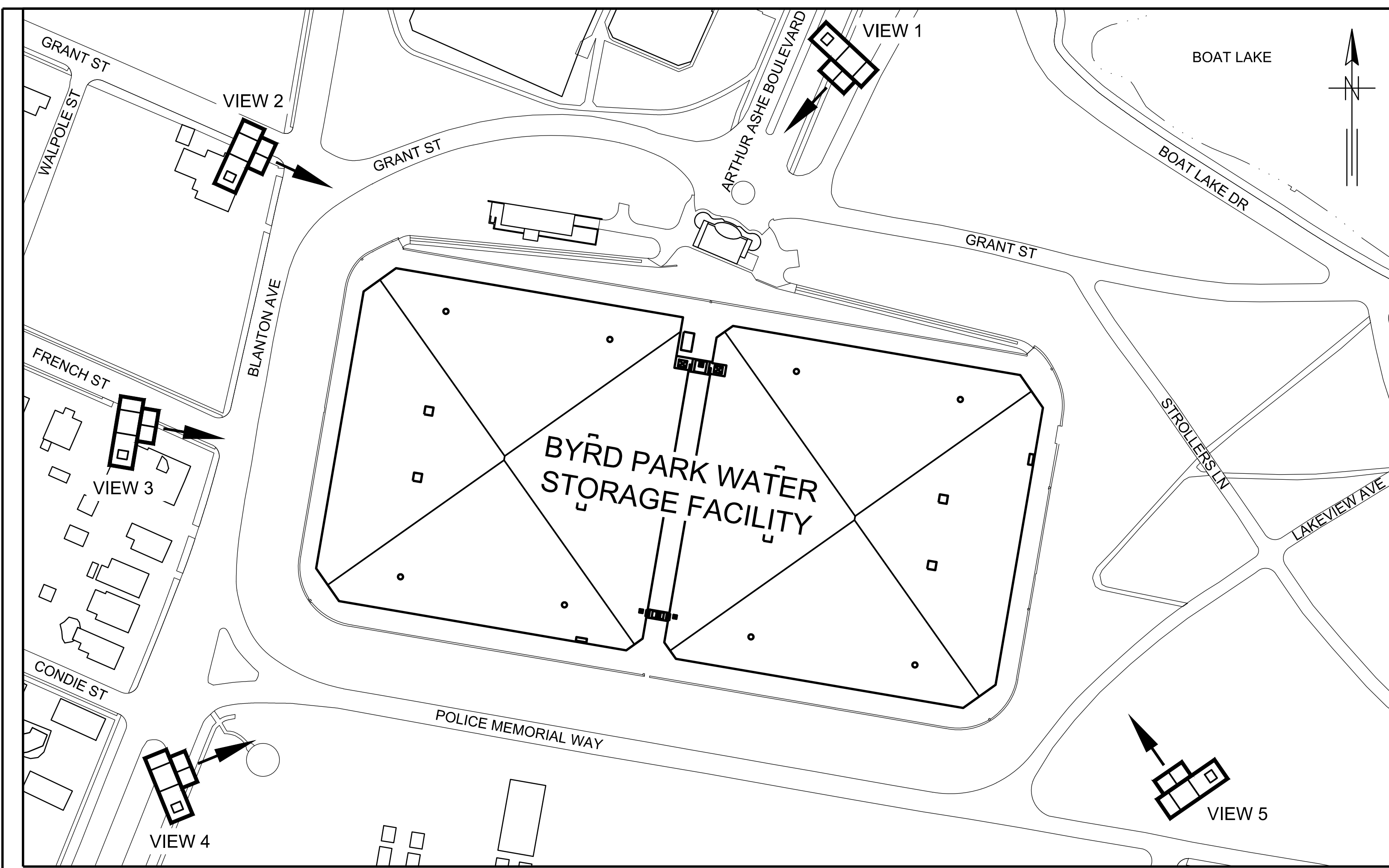
S:\02189-RICHMOND\WATER ENG SERVICES\02189-BYRD-PARK-TANK-REHAB\21-CADD\21.04-PRESENTATIONS\SECTIONS-2019\02\04-5:49 PM-HEBBEL.DAVID



PROPOSED SOUTHWEST AERIAL VIEW

SCALE: NO SCALE

S:\0218 - RICHMOND WATER ENG SERVICES\02189 BYRD PARK TANK REHAB\21 CAD\21.04 PRESENTATIONS\RC908-OP08 2019/02/13 10:58 AM HEBBE.DAVID



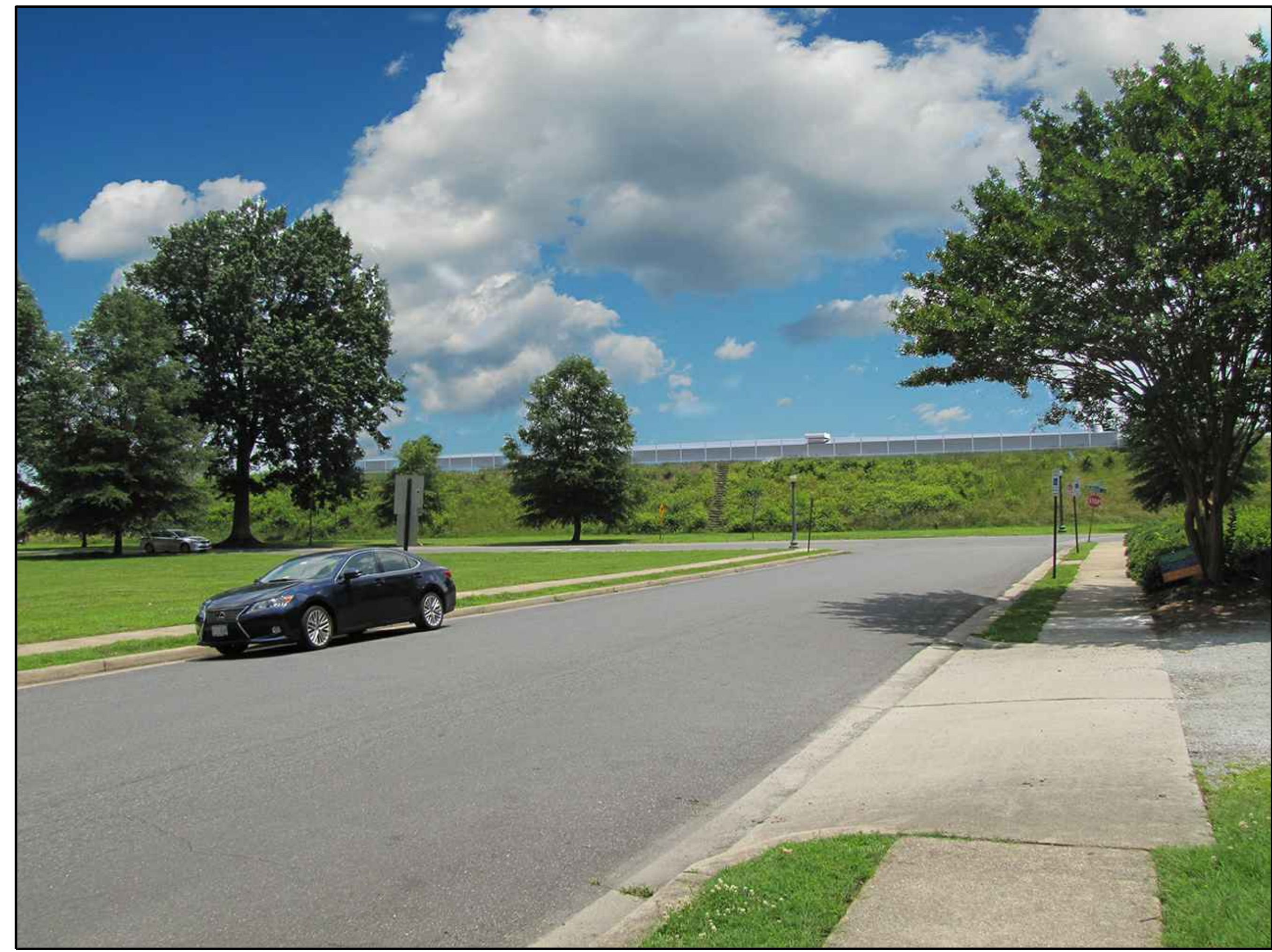
KEY MAP
 SCALE: NOT TO SCALE



PROPOSED STREET VIEW 1
 SCALE: NO SCALE

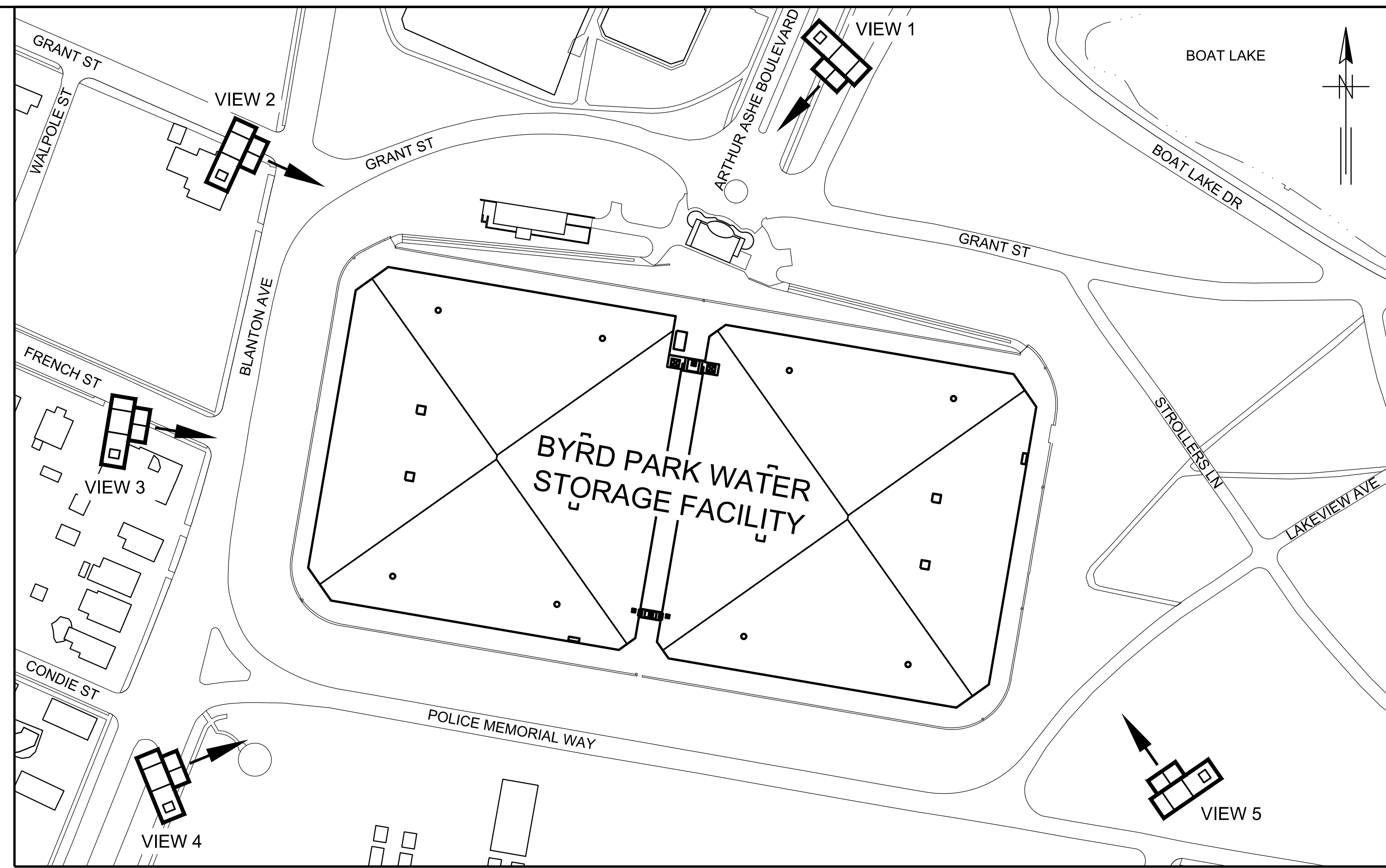


PROPOSED STREET VIEW 2
 SCALE: NO SCALE



PROPOSED STREET VIEW 3
 SCALE: NO SCALE

S:\0218 - RICHMOND WATER ENG SERVICES\02189 BYRD PARK TANK REHAB\21 CAD\21.04 PRESENTATIONS\RC908-OP09_2019/02/13_11:45 AM - HEBBE, DAVID



KEY MAP
 SCALE: NOT TO SCALE

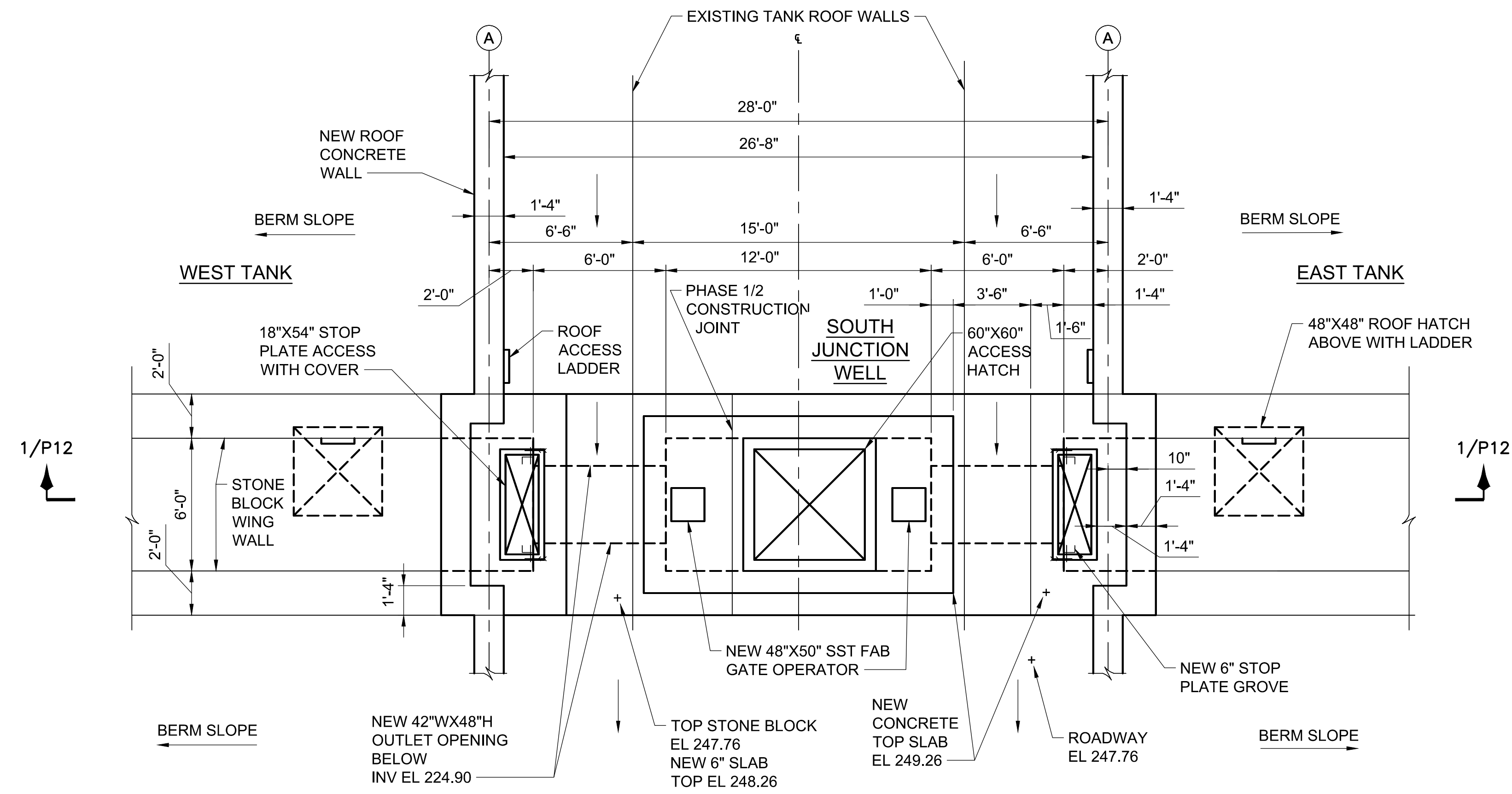


PROPOSED STREET VIEW 4
 SCALE: NO SCALE



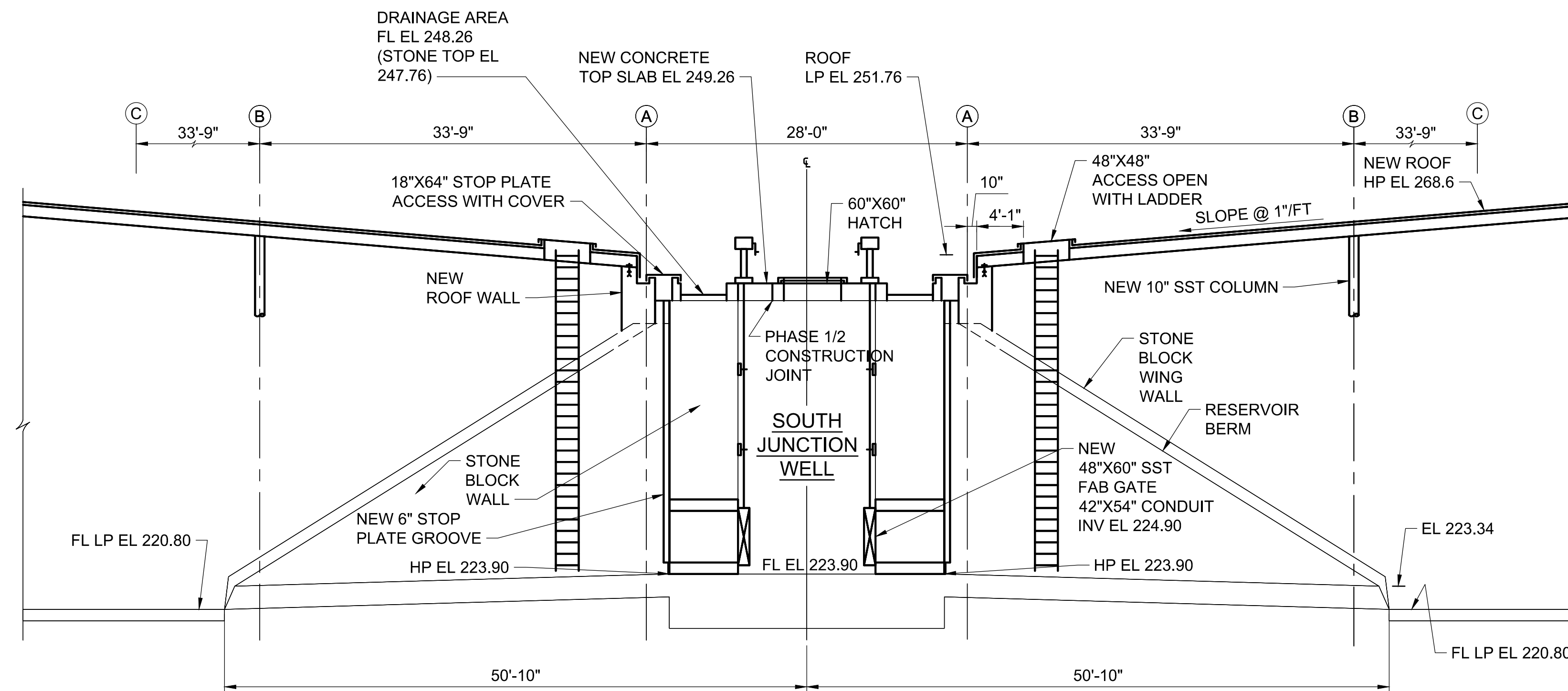
PROPOSED STREET VIEW 5
 SCALE: NO SCALE

S:\02189-RICHMOND WATER ENG SERVICES\02189-BYRD PARK TANK REHAB\21 CAD\21.04 PRESENTATIONS\RC908-OP09_2019\02\13_11:46 AM - HEBBE, DAVID



SOUTH JUNCTION WELL - TOP PLAN (PHASE 2)

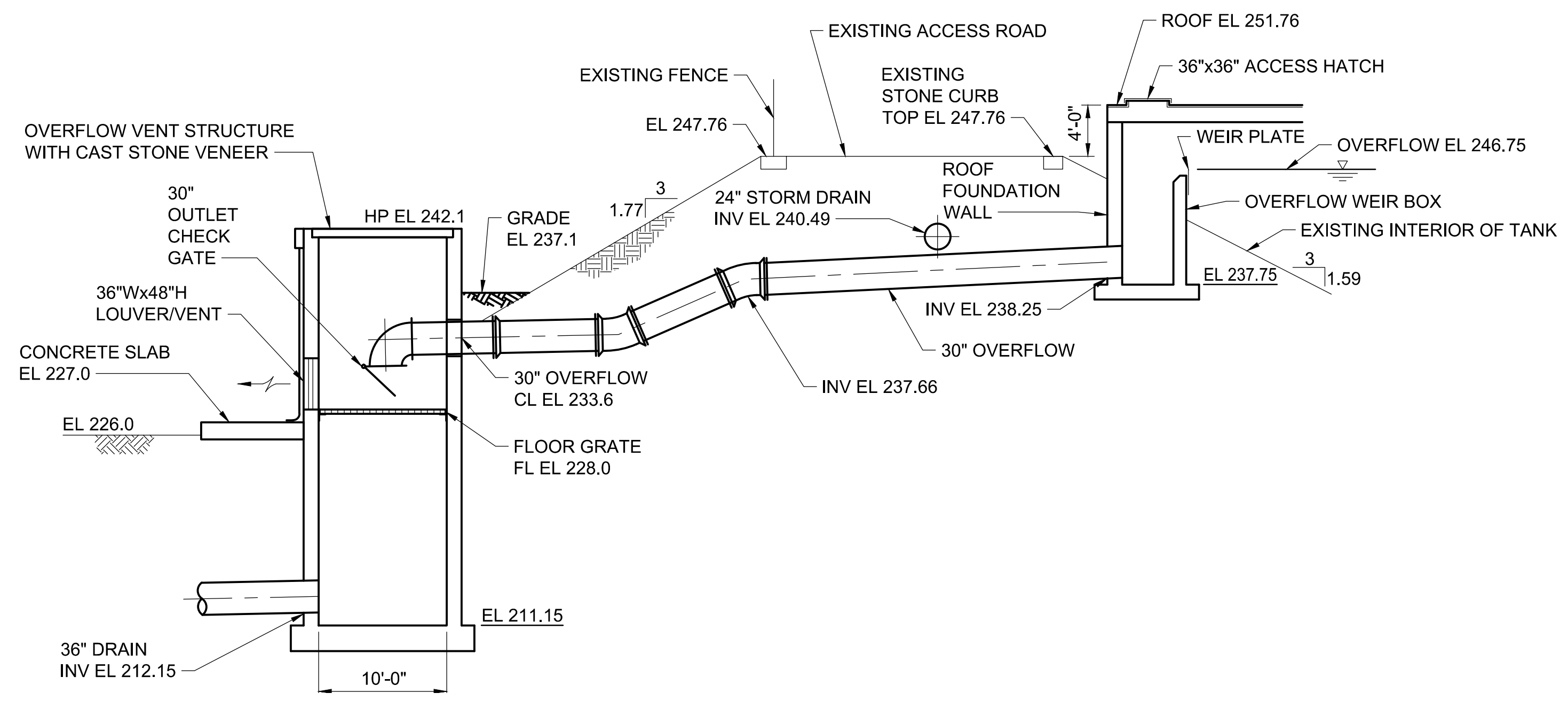
SCALE: 1/4" = 1'-0"



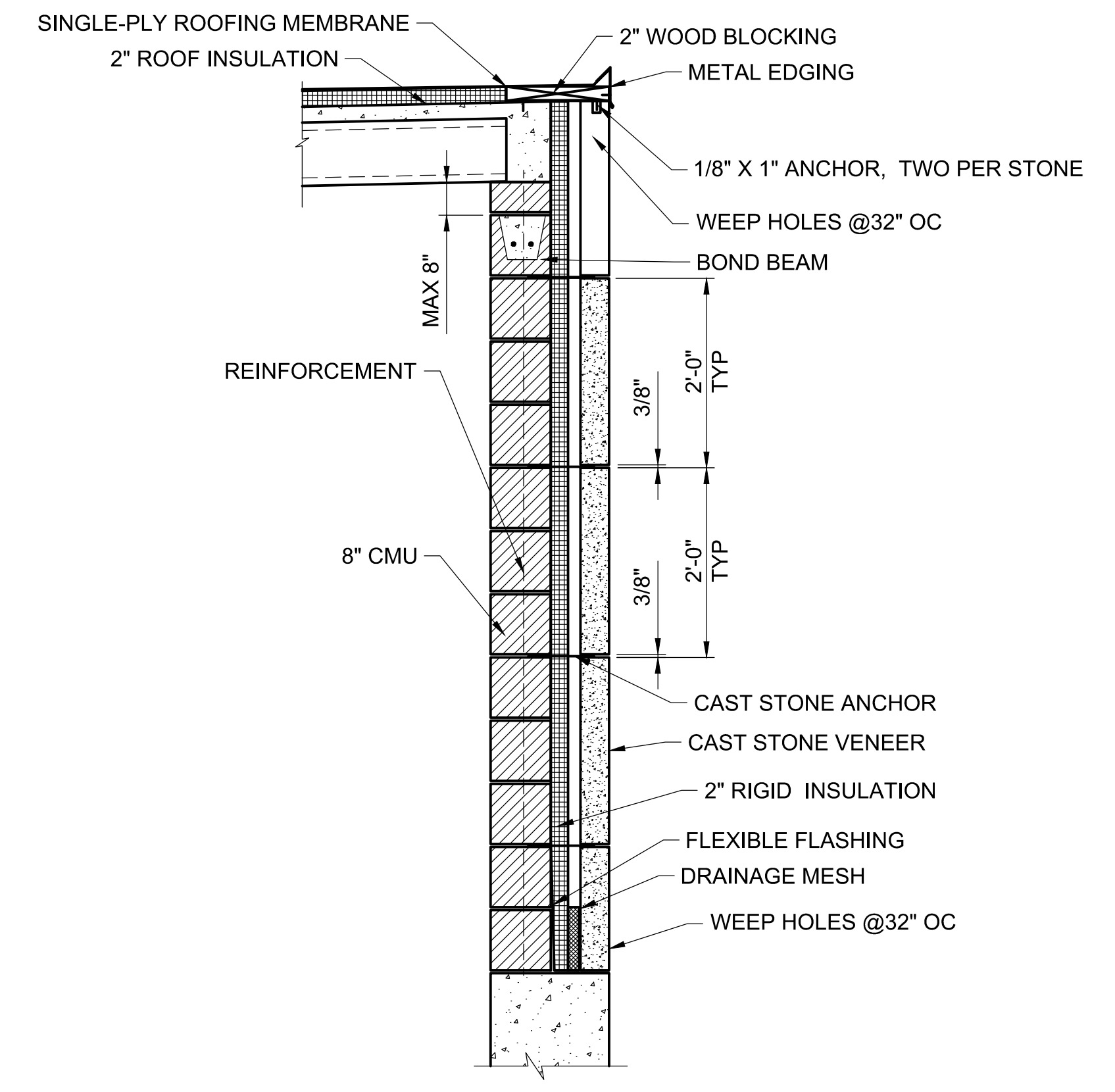
**SECTION 1/P12
SOUTH JUNCTION WELL (PHASE 2)**

SCALE: 1/8" = 1'-0"

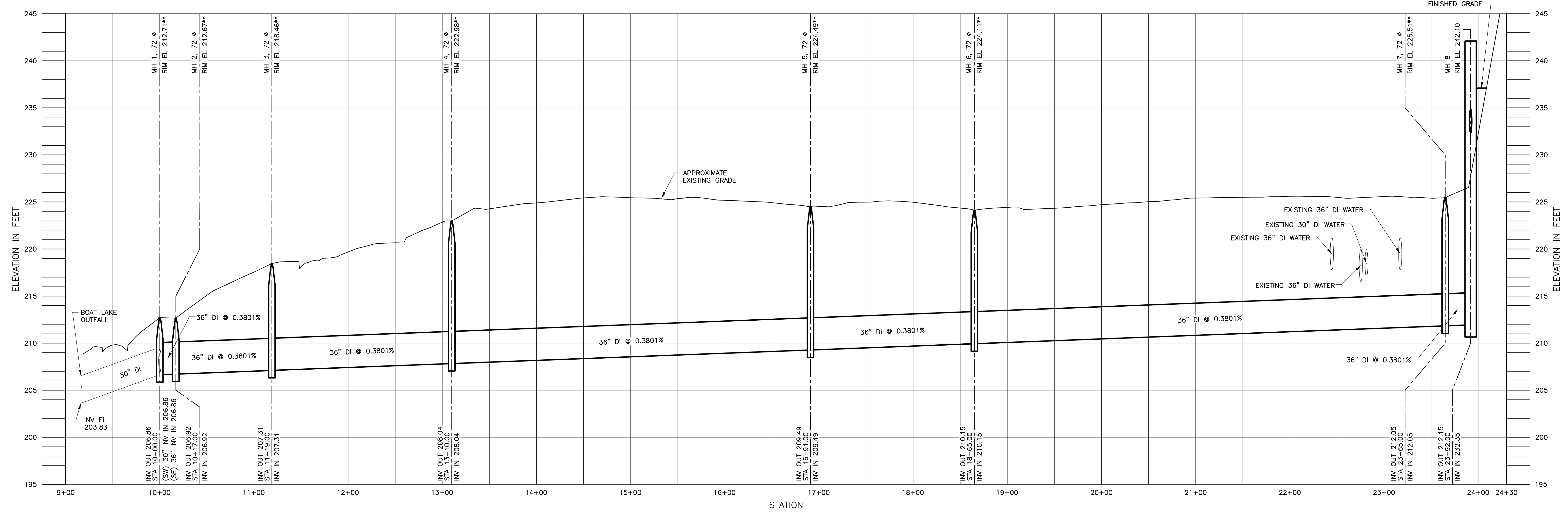
S:\02189-RICHMOND\WATER ENG SERVICES\02189\BYRD PARK TANK REHAB\21 CAD\21.04 PRESENTATIONS\RC908-0P12_2019/02/04_5:49 PM_HEBBE_DAVI



SECTION - OVERFLOW AND OVERFLOW WEIR BOX
SCALE: 1/8" = 1'-0"



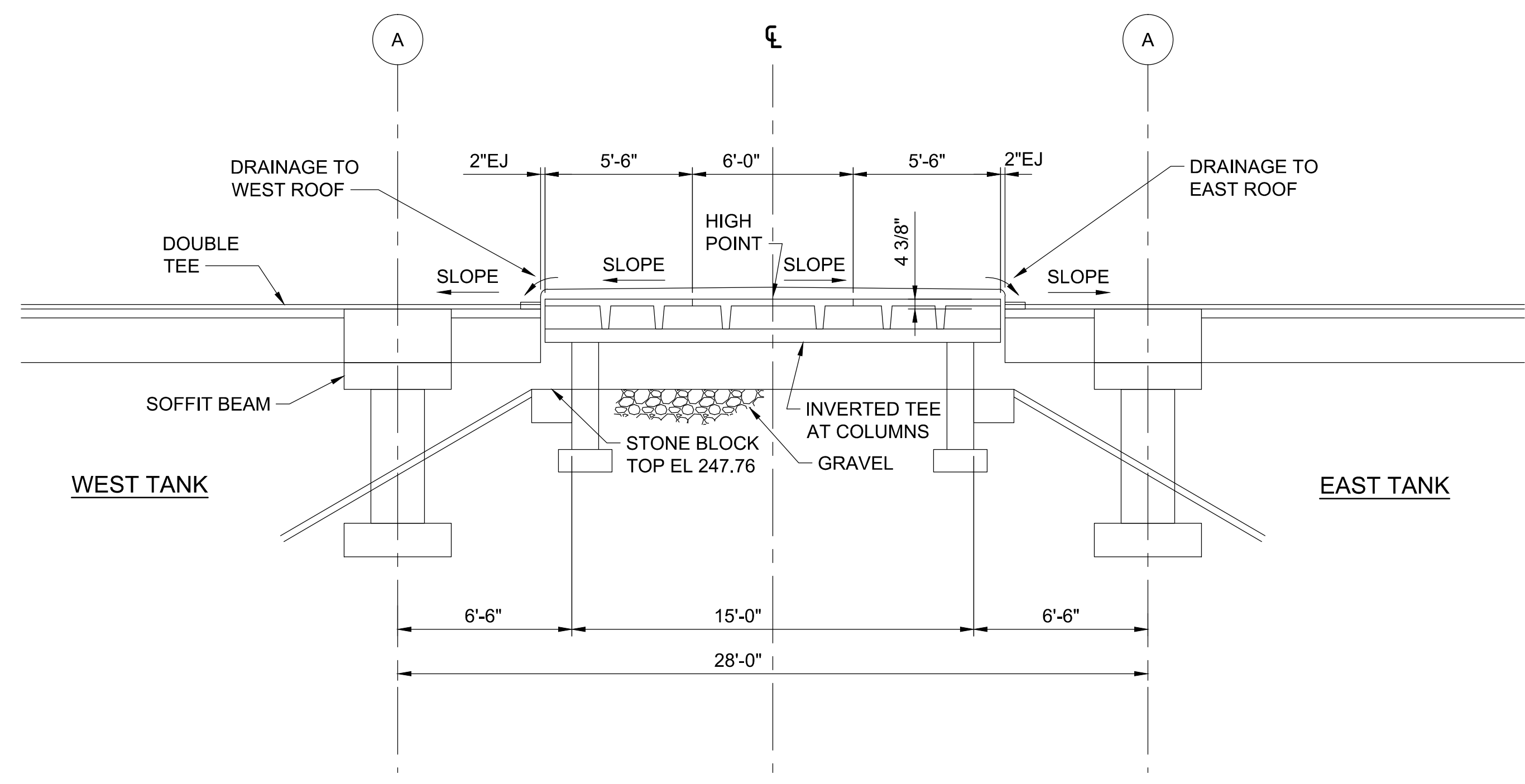
WALL SECTION - CAST STONE VENEER
SCALE: NOT TO SCALE



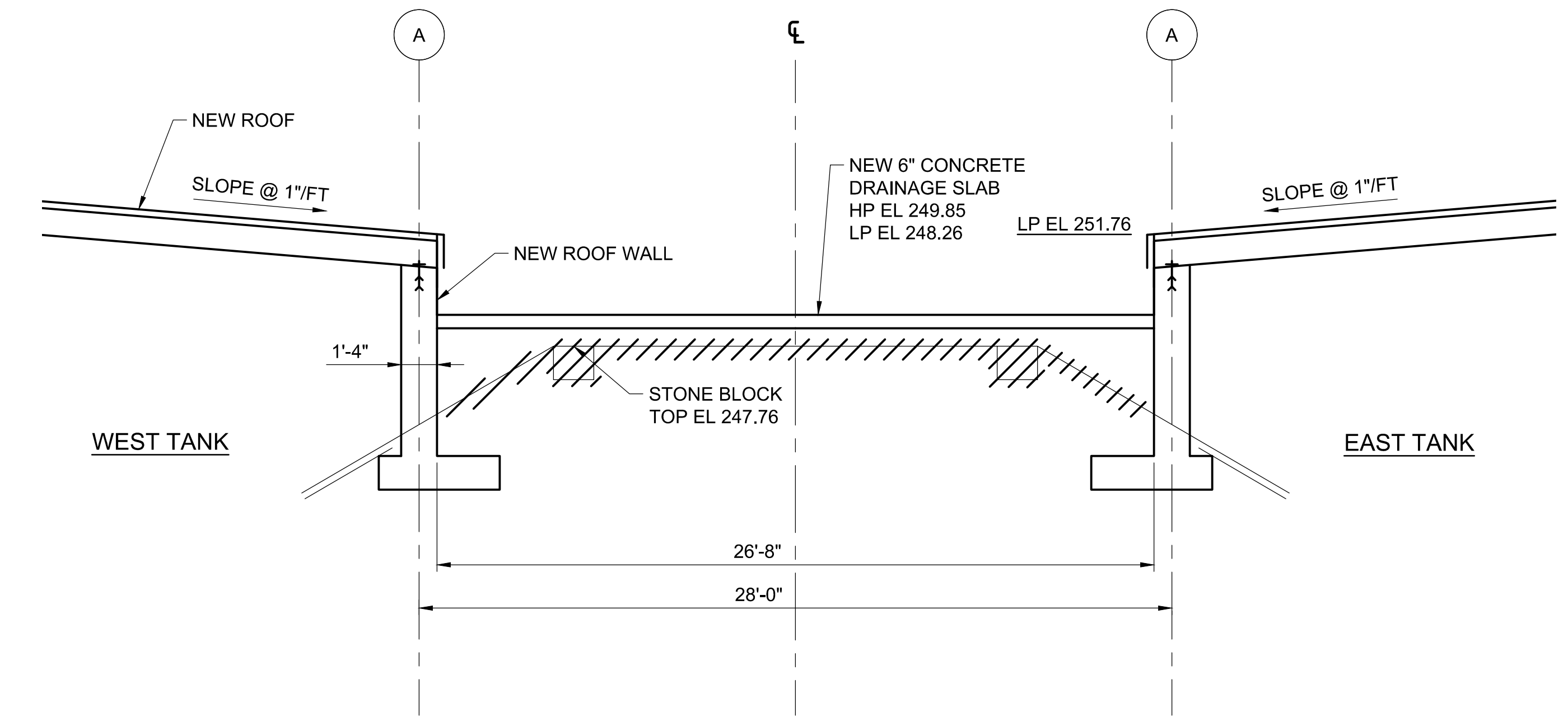
OVERFLOW PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL

TANK OVERFLOW - SECTION AND PROFILE

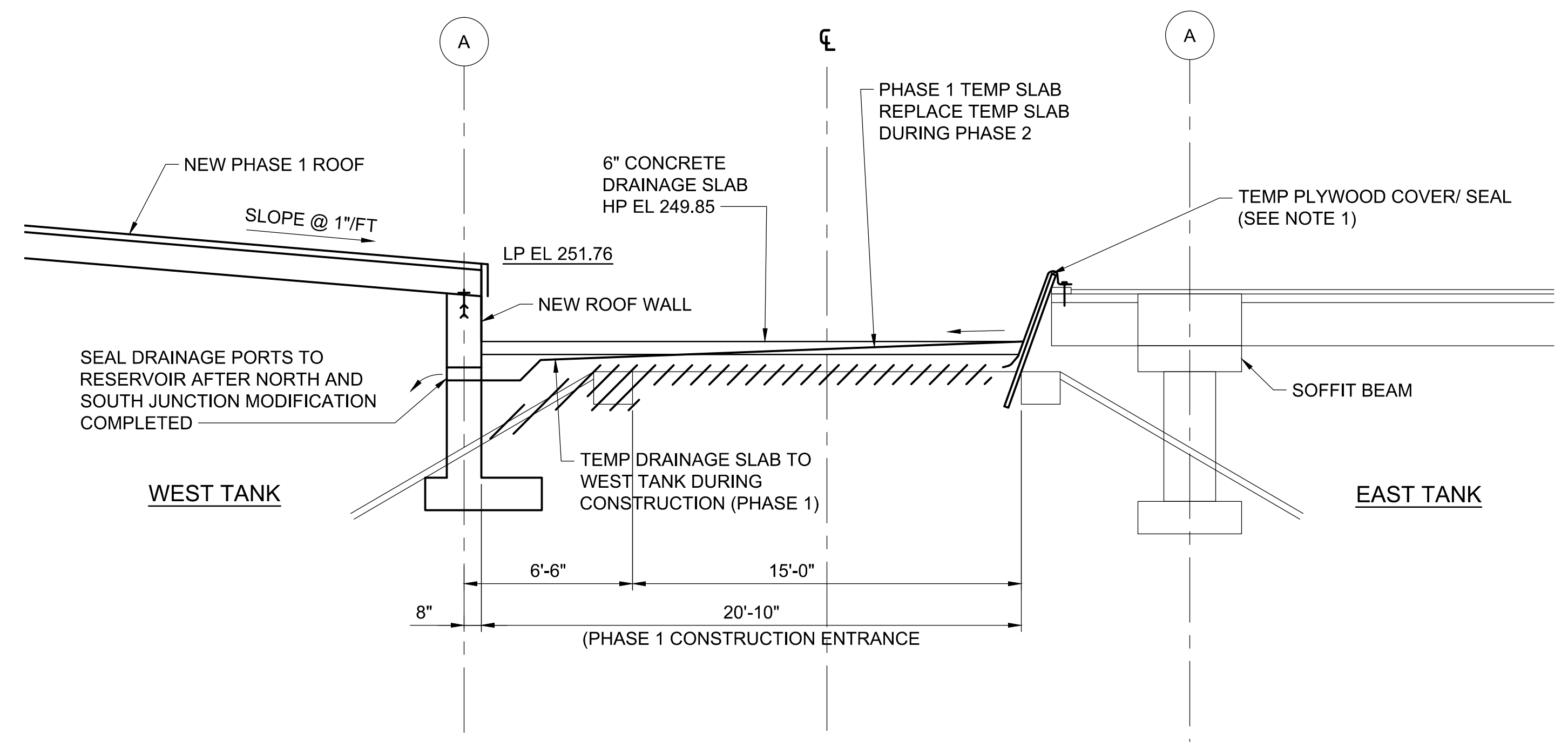
S:\0218 - RICHMOND WATER ENG SERVICES\02189 BYRD PARK TANK REHAB\21 CAD\21.04 PRESENTATIONS\RC908-0PT13 2019/02/04 5:49 PM HEBBE, DAVID



SECTION 2/P2, P3 - EXISTING
SCALE: 1/4" = 1'-0"



SECTION 3/P5, P6 - PHASE 2 (FINAL)
SCALE: 1/4" = 1'-0"



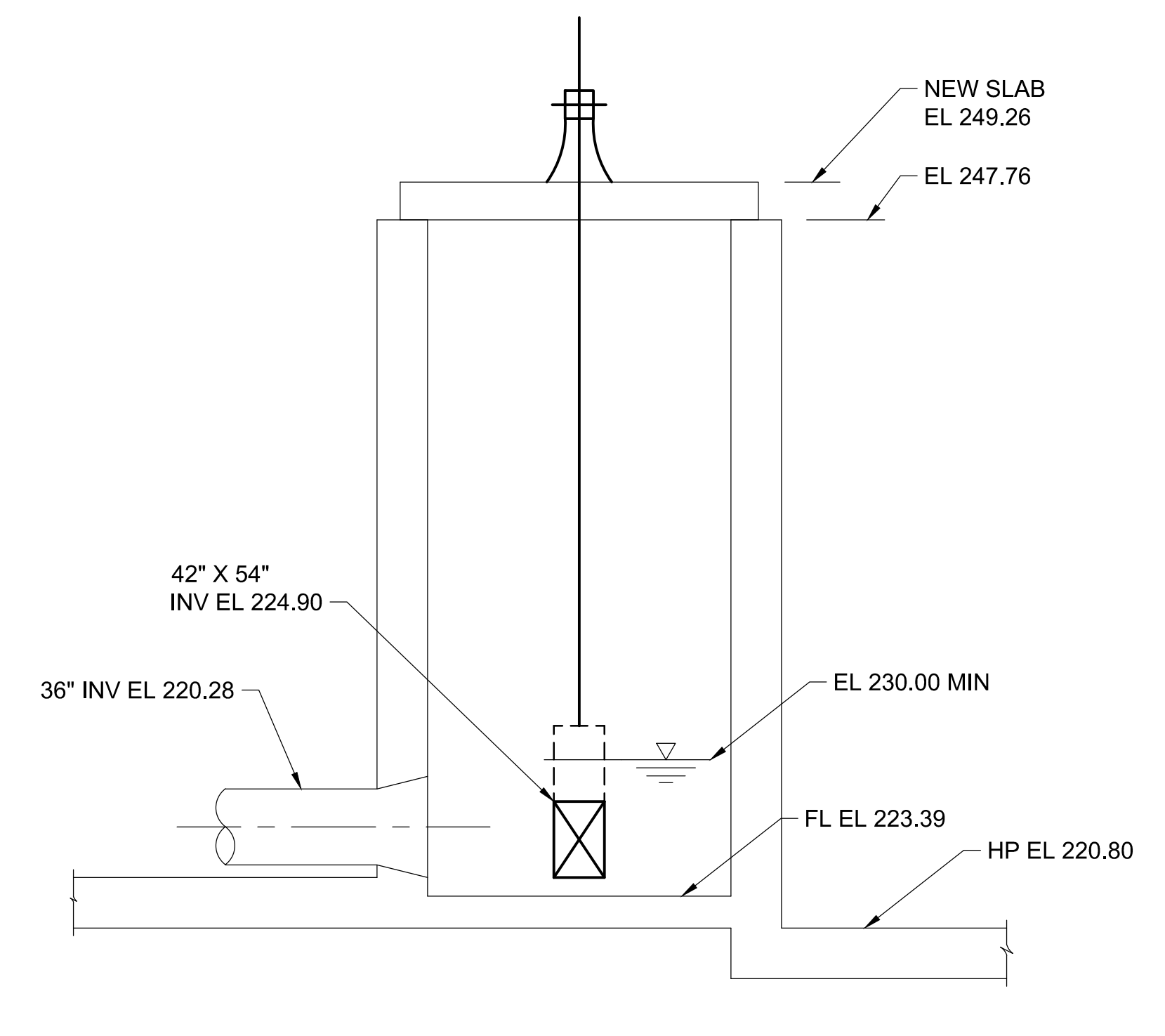
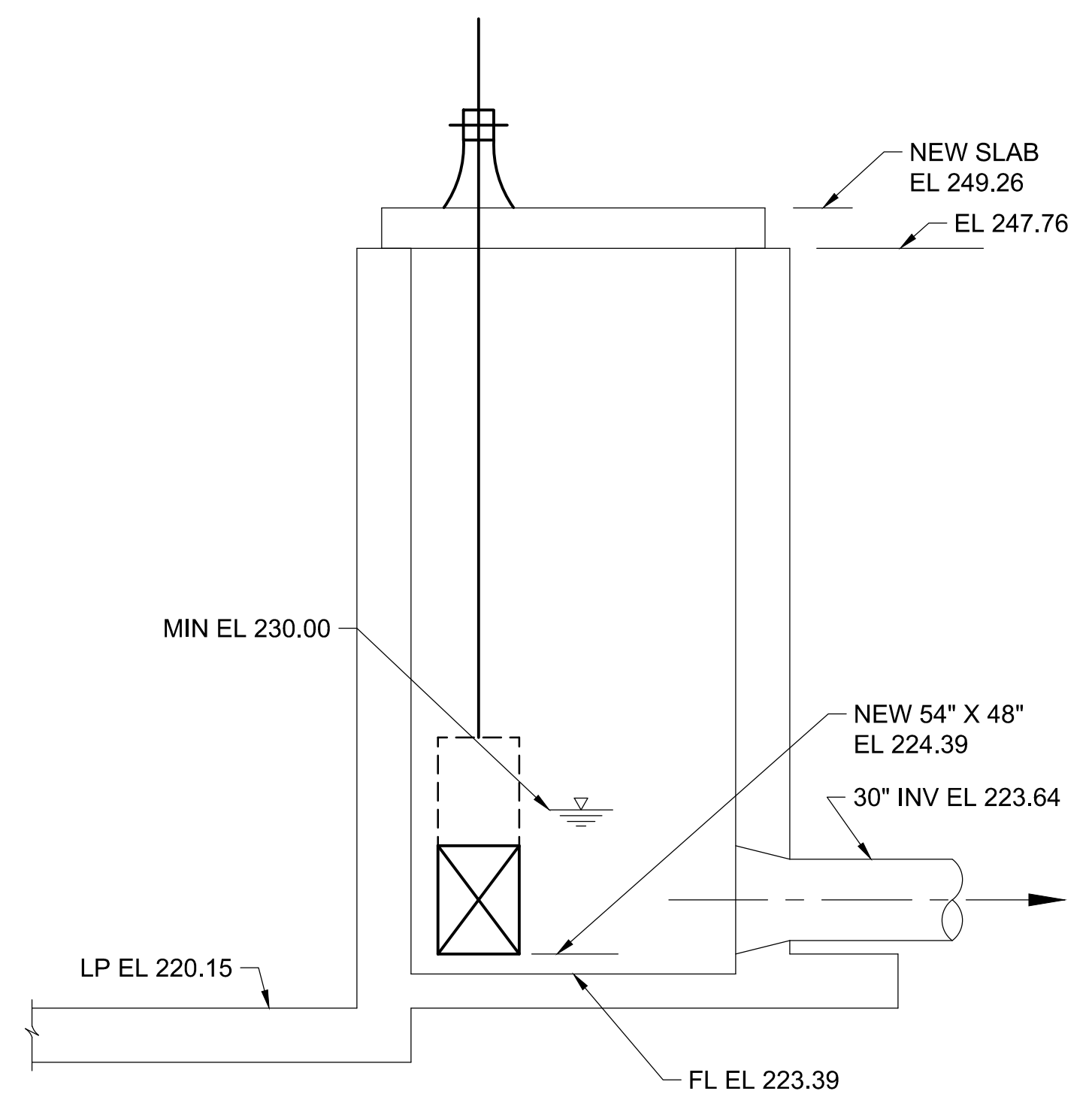
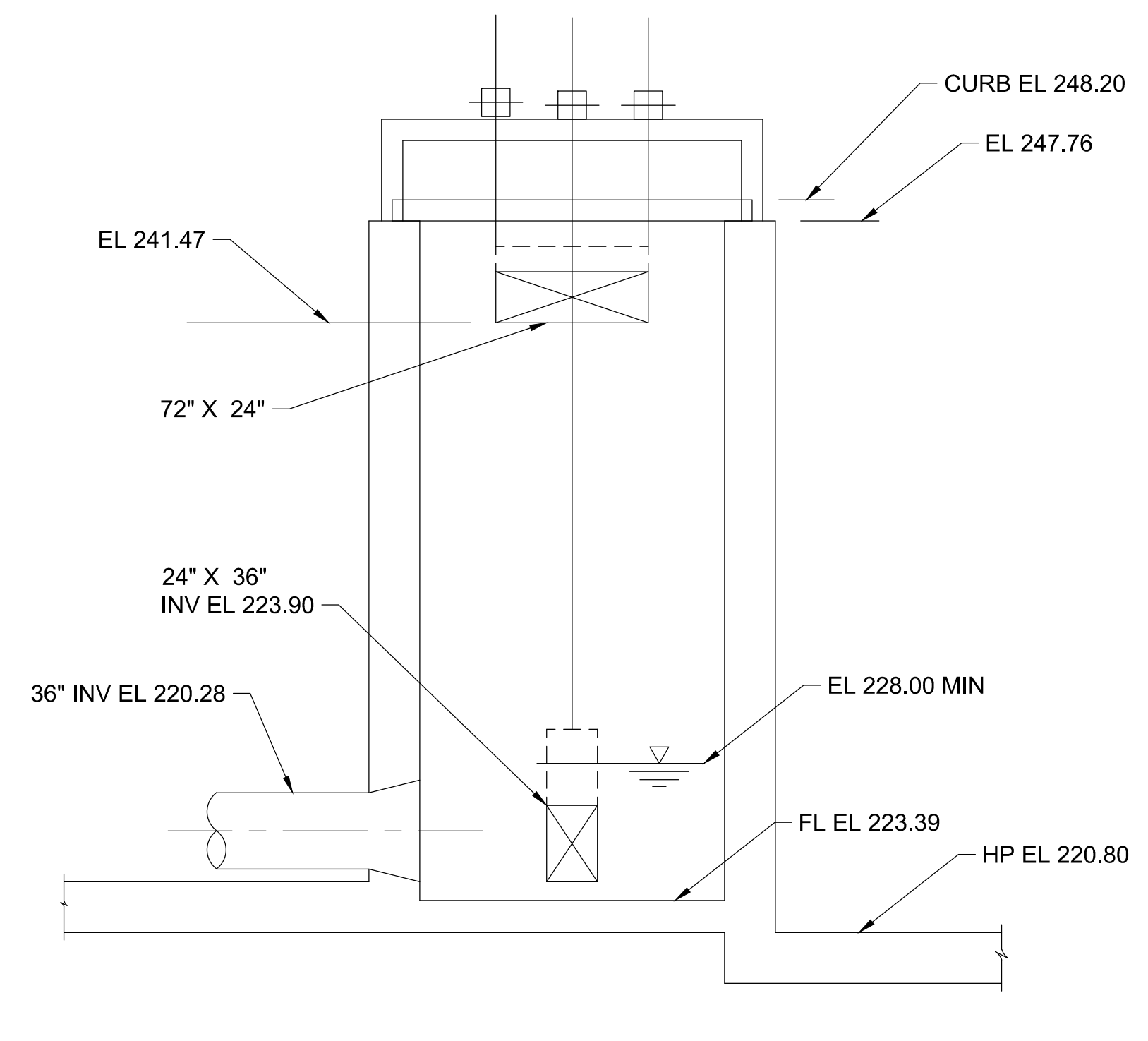
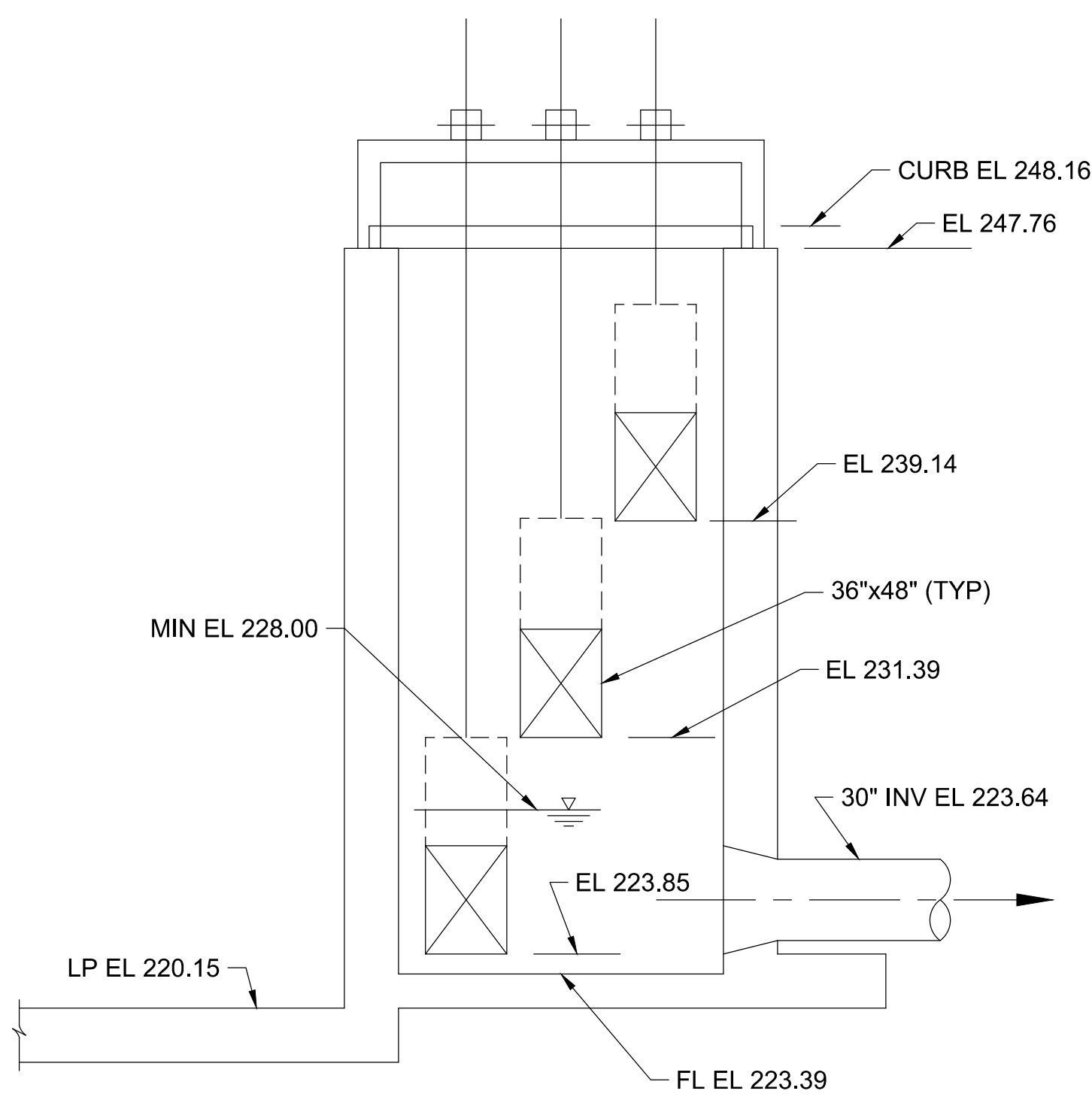
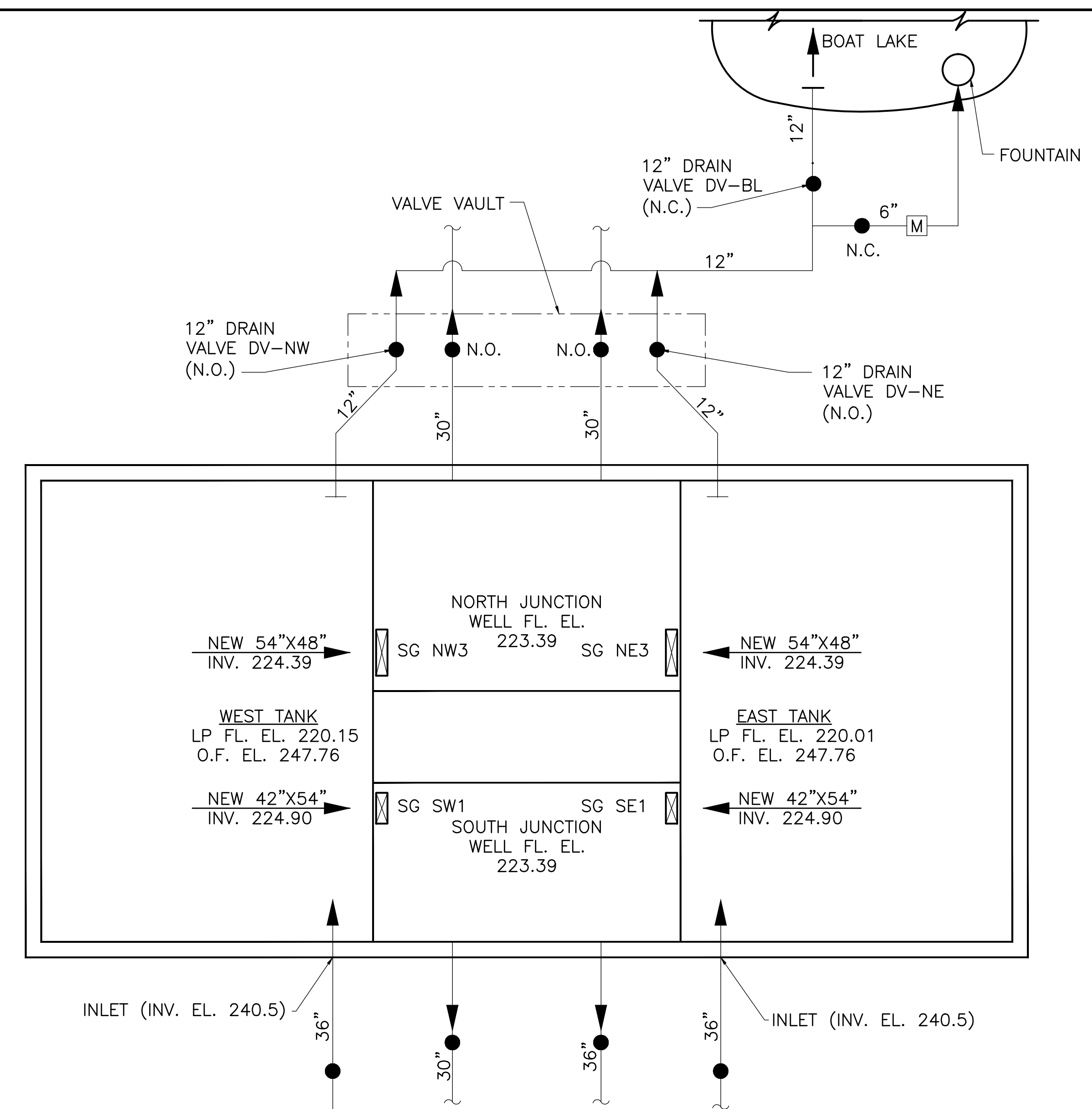
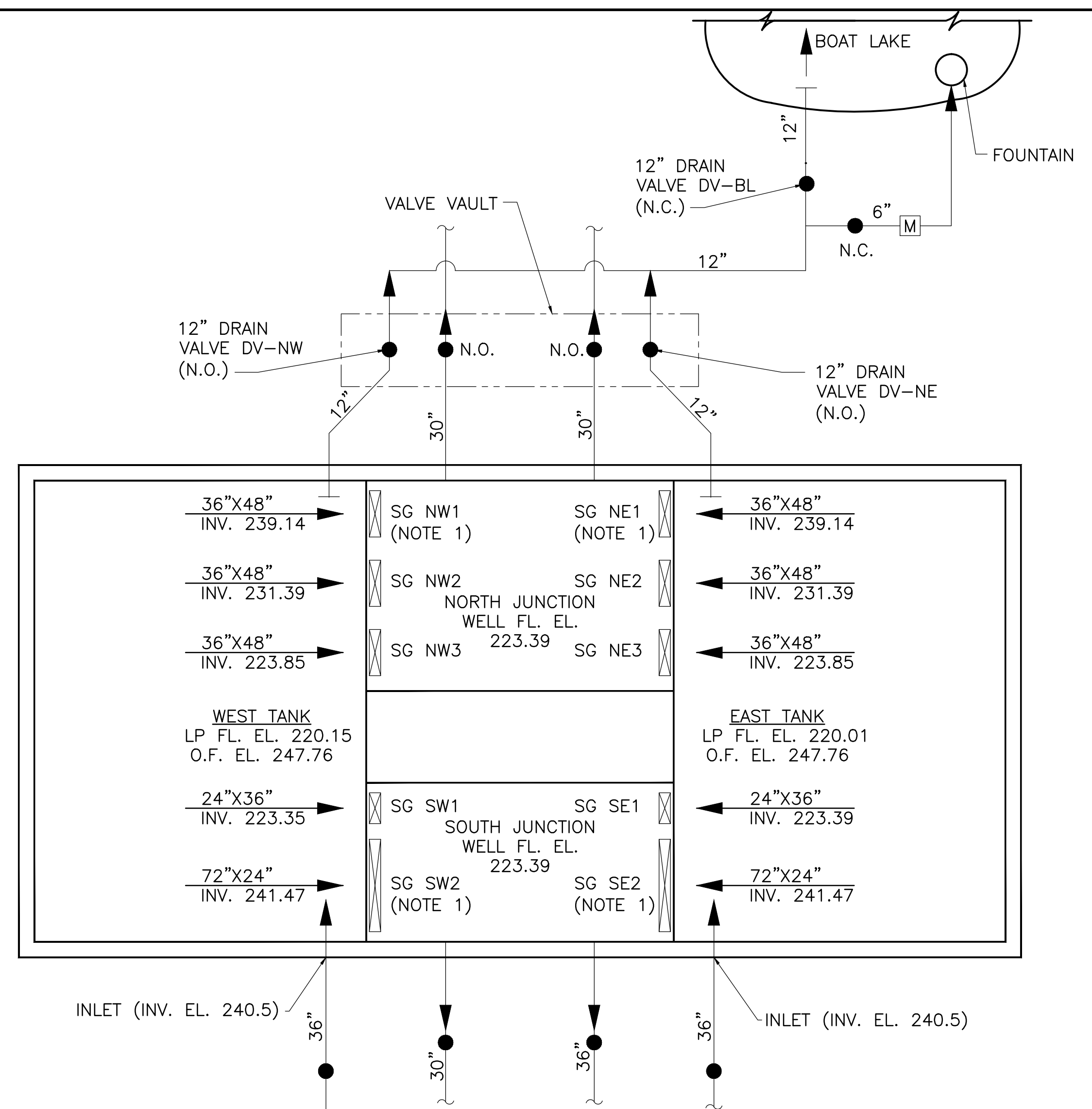
PHASE 1 SECTION (INTERMEDIATE)
SCALE: 1/4" = 1'-0"

NOTES:

1. TEMPORARY PLYWOOD COVER AND SEAL INSTALLED BETWEEN EAST AND WEST TANKS PRIOR TO STARTING WEST TANK DEMOLITION.

TANK SECTIONS

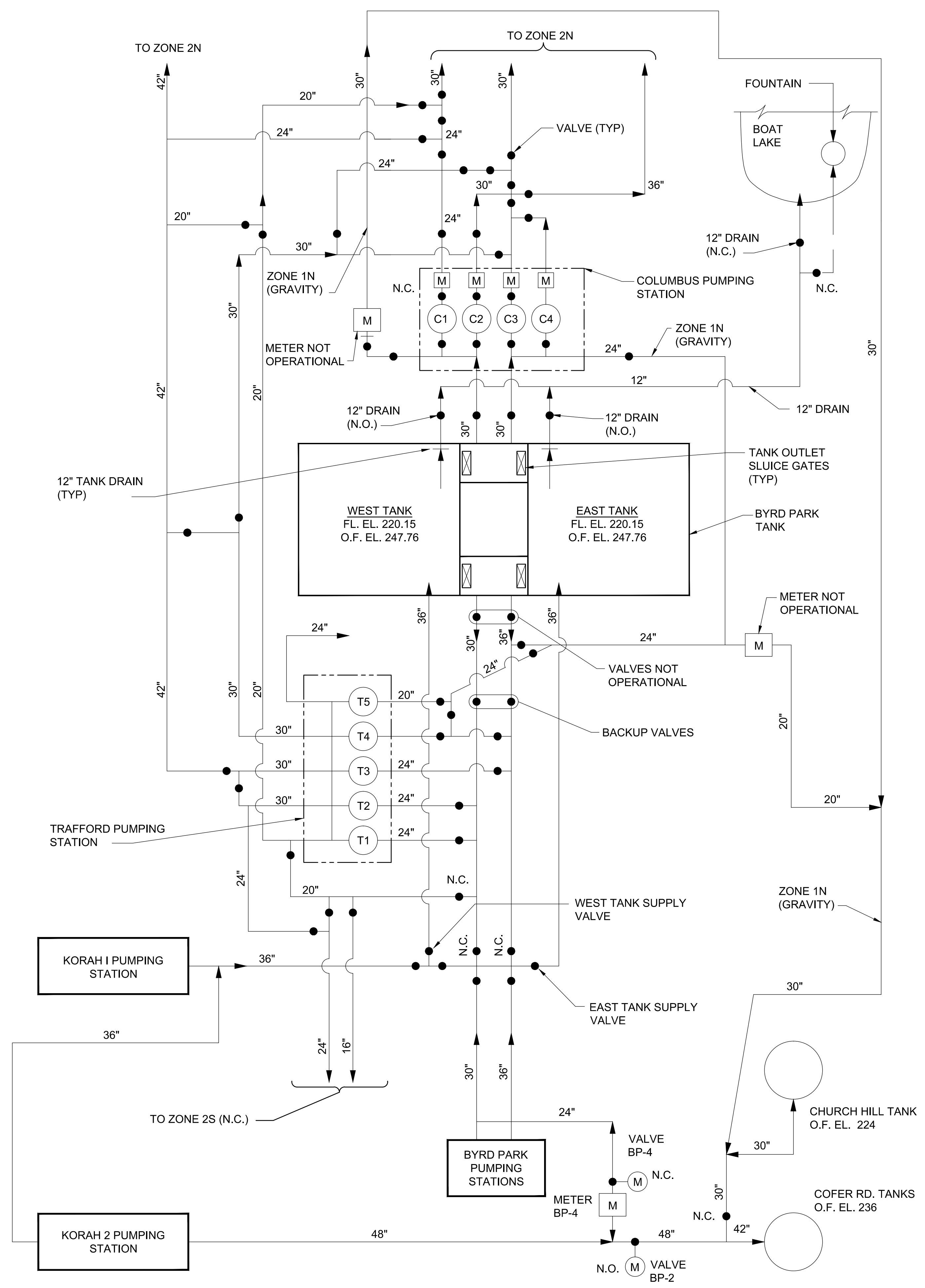
S:\021B - RICHMOND WATER ENG SERVICES\02189\BYRD PARK TANK REHAB\21 CAD\21.04 PRESENTATIONS\RC908-OP14 2019/02/04 5:49 PM HEBBE, DAVID



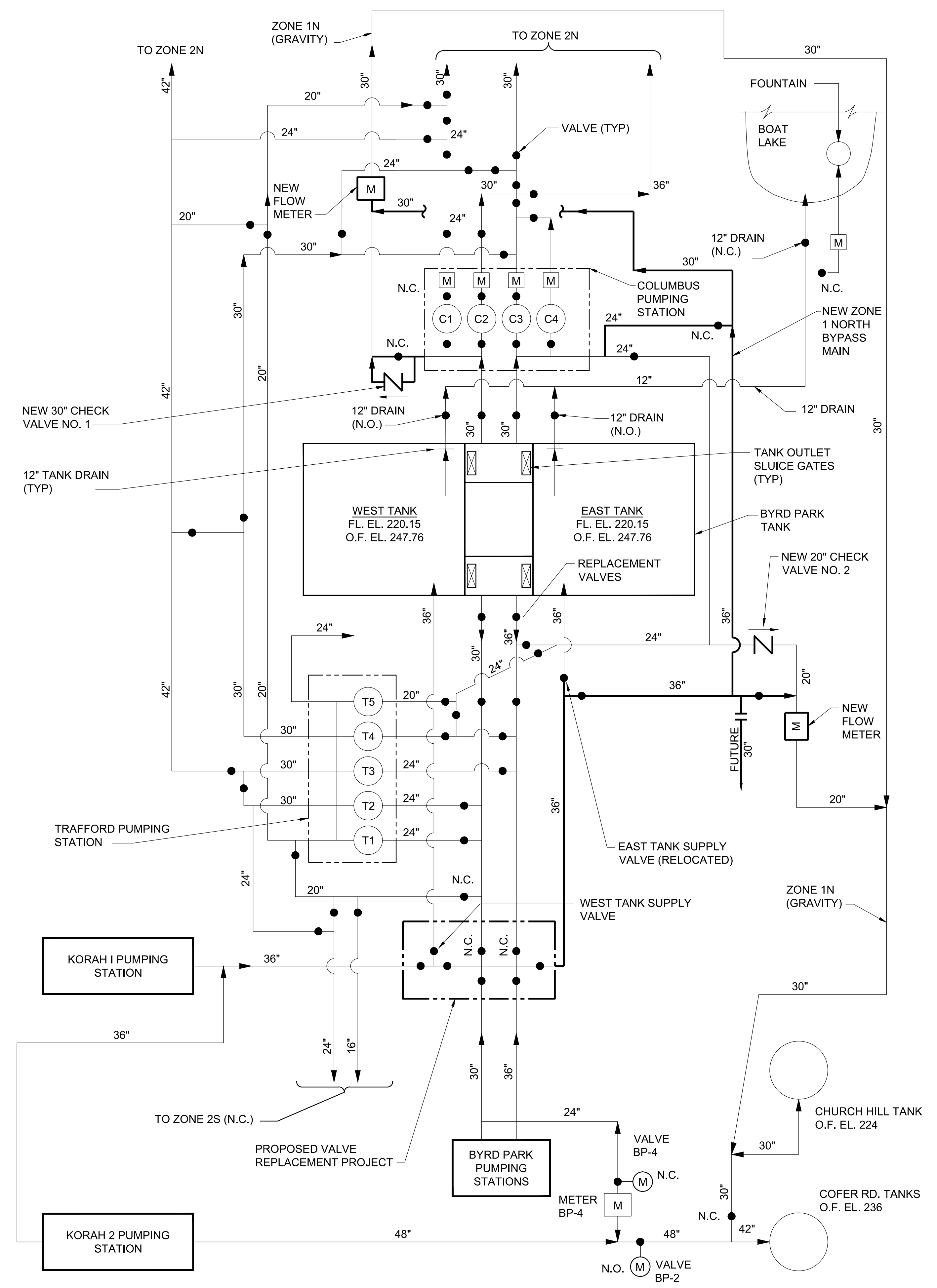
JUNCTION WELL SLUICE GATE DIAGRAMS

SCALE: NO SCALE

S:\02189-RICHMOND-WATER-ENG-SERVICES\02189-BYRD-PARK-TANK-REHAB\21-CADD\21-04-PRESENTATIONS\RC908-0P15-2019/02/04-5:49 PM-HEBBE, DAVID



EXISTING PIPING DIAGRAM

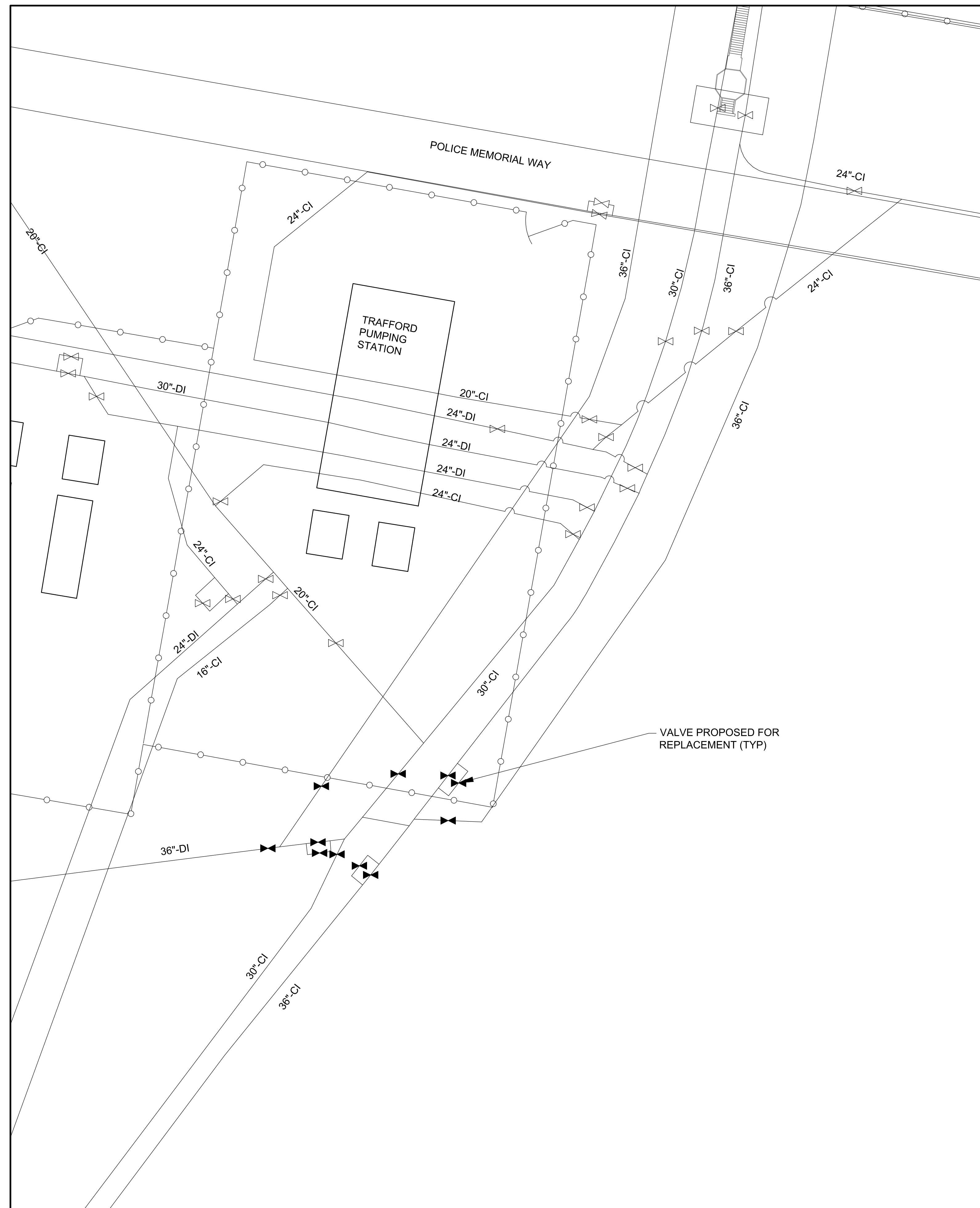


PROPOSED PIPING DIAGRAM

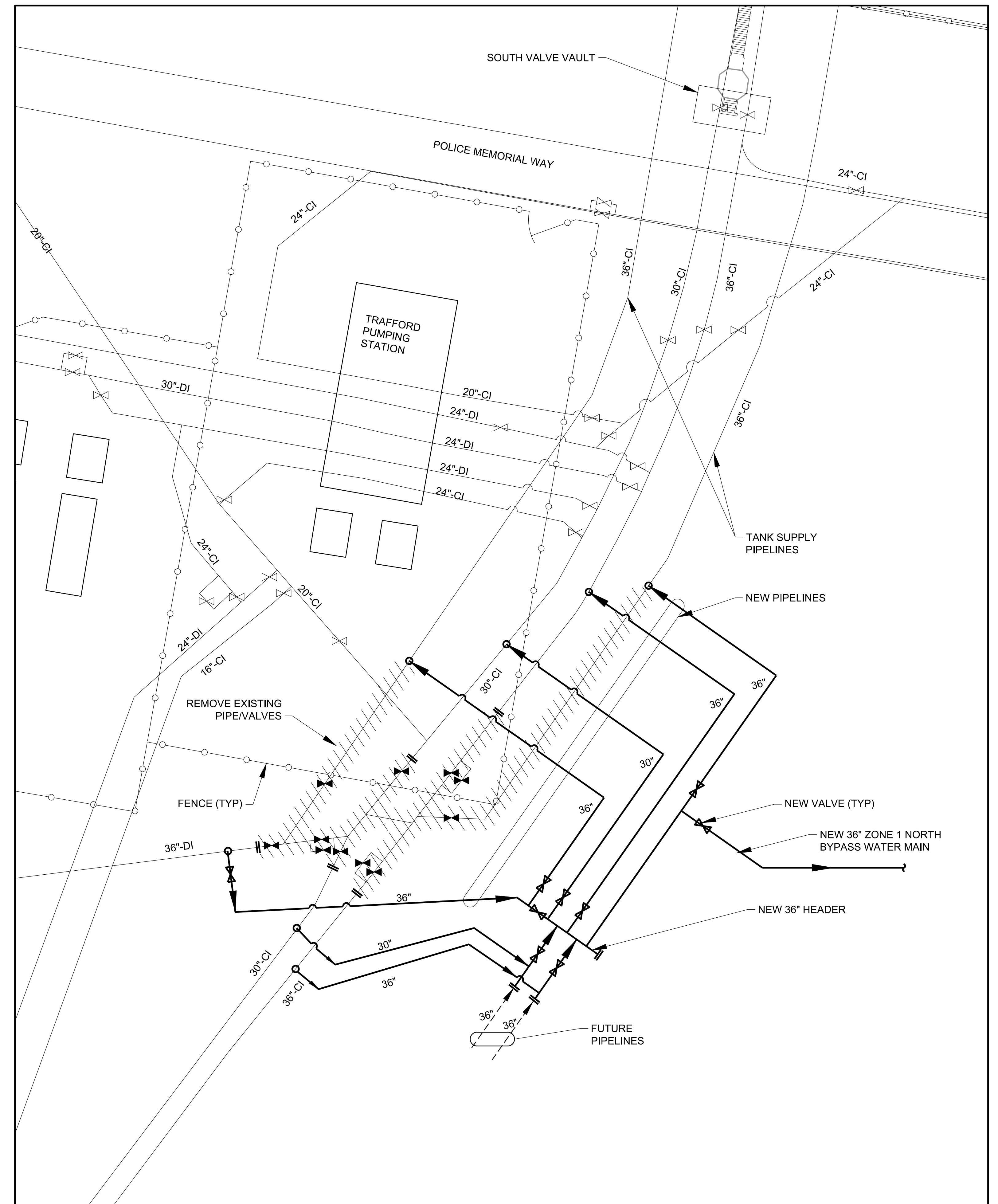
BYRD PARK ZONE 1N SUPPLY SYSTEM
SCALE: NO SCALE

S:\021B - RICHMOND WATER ENG SERVICES\02189 BYRD PARK TANK REHAB\21 CAD\21.04 PRESENTATIONS\RC908-0P16 2019/02/04 5:49 PM HEBBE, DAVID





EXISTING PIPING DIAGRAM



PROPOSED PIPING DIAGRAM

BYRD PARK TANK SUPPLY SYSTEM

SCALE: NO SCALE

S:\0218-RICHMOND-WATER-ENG-SERVICES-02189-BYRD-PARK-TANK-REHAB-21-CADD\21-04-PRESENTATIONS-RC908-0PT17-2019\02\04-5:50 PM-HEBBE, DAVID



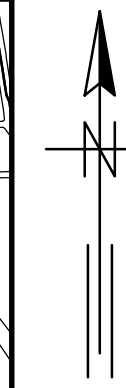


Byrd Park Water Storage Tanks Roof Replacement Area Plan



**CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES**

**BYRD PARK WATER STORAGE TANKS
ROOF REPLACEMENT PROJECT
CONCEPTUAL DRAWINGS**



DRAWING INDEX

SHEET NUMBER	DRAWING NUMBER	DESCRIPTION
1	--	COVER
2	P1	AREA PLAN
3	P2	EXISTING UPPER PLAN
4	P3	EXISTING LOWER PLAN
5	P4	EXISTING TANK SECTION
6	P5	PROPOSED UPPER PLAN
7	P6	PROPOSED LOWER PLAN
8	P7	PROPOSED SECTIONS
9	P8	PROPOSED SOUTHWEST AERIAL VIEW
10	P9	PROPOSED STREET VIEWS
11	P10	PROPOSED STREET VIEWS
12	P11	NORTH JUNCTION WELL PLAN AND SECTION
13	P12	SOUTH JUNCTION WELL PLAN AND SECTION
14	P13	TANK OVERFLOW SECTION AND PROFILE
15	P14	TANK SECTIONS
16	P15	JUNCTION WELL SLUICE GATE DIAGRAMS
17	P16	BYRD PARK TANK SUPPLY SYSTEM
18	P17	ZONE 1N SUPPLY SYSTEM

VICINITY MAP

SCALE: 1" = 1200'



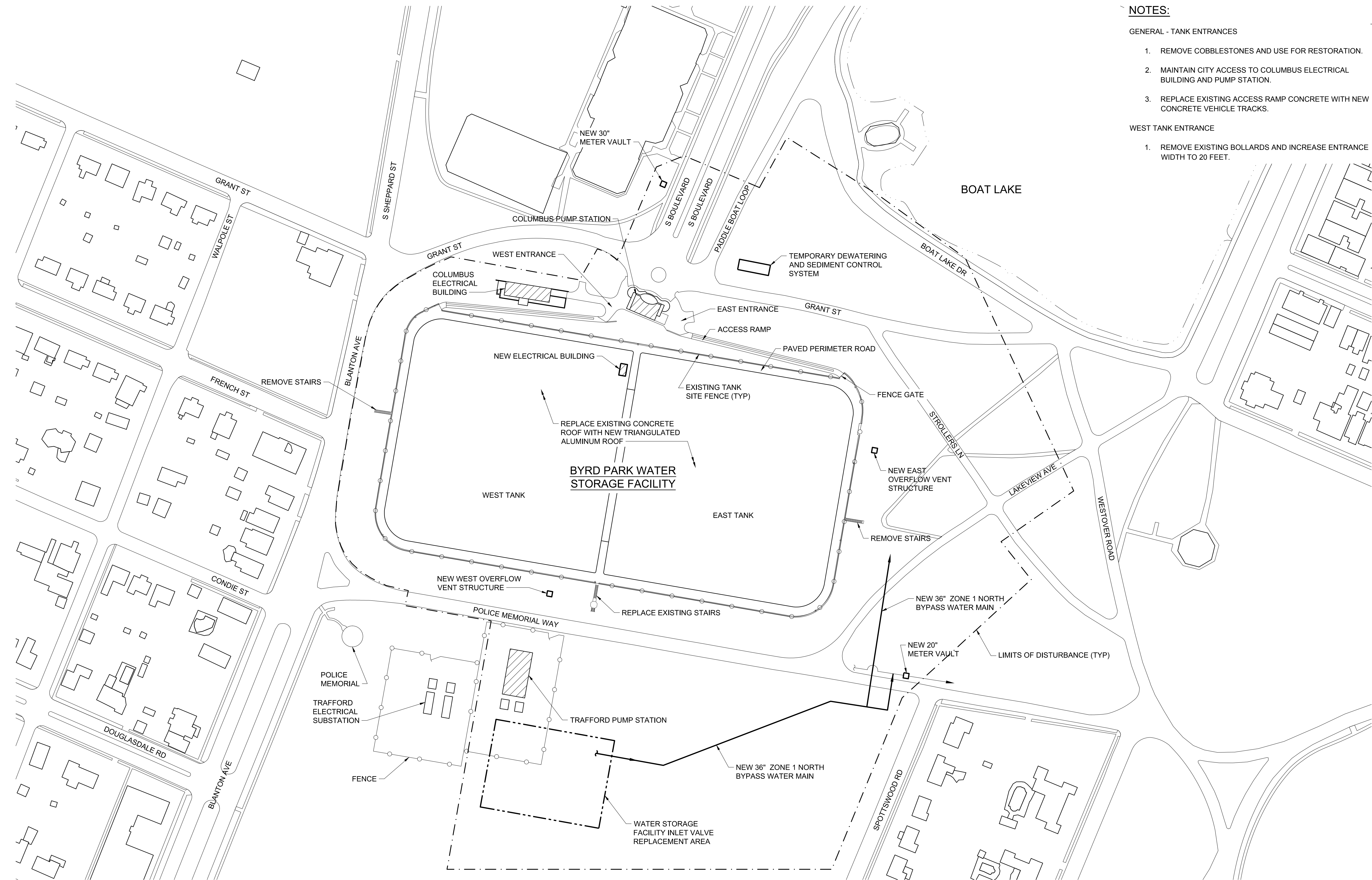
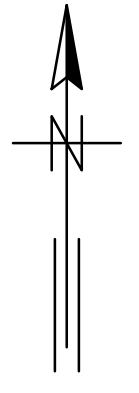
GREELEY AND HANSEN

9020 STONY POINT PARKWAY, SUITE 475
RICHMOND, VIRGINIA 23235

JANUARY 2019

NOTES:

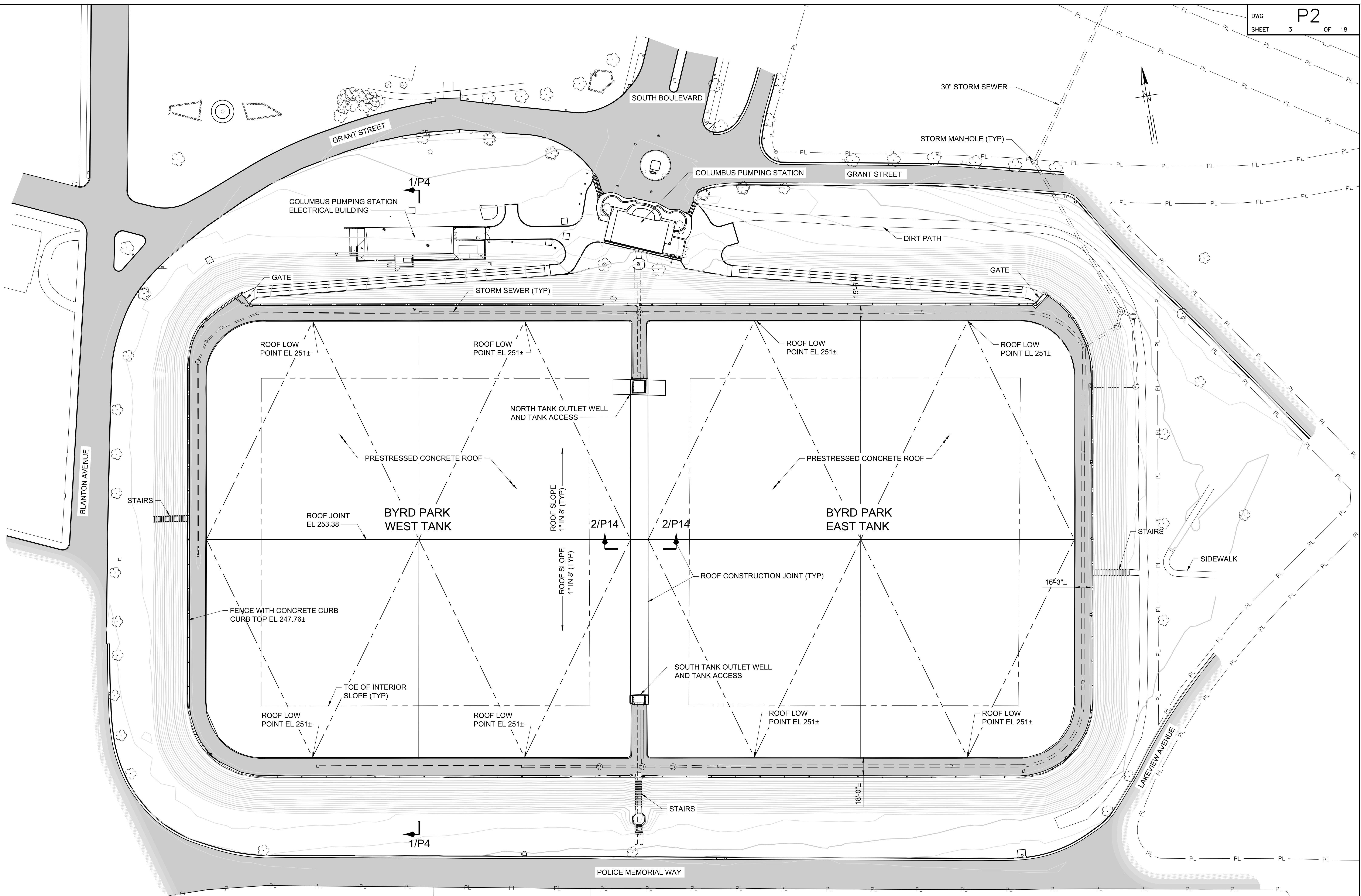
- GENERAL - TANK ENTRANCES
1. REMOVE COBBLESTONES AND USE FOR RESTORATION.
 2. MAINTAIN CITY ACCESS TO COLUMBUS ELECTRICAL BUILDING AND PUMP STATION.
 3. REPLACE EXISTING ACCESS RAMP CONCRETE WITH NEW CONCRETE VEHICLE TRACKS.
- WEST TANK ENTRANCE
1. REMOVE EXISTING BOLLARDS AND INCREASE ENTRANCE WIDTH TO 20 FEET.



AREA PLAN
SCALE: 1" = 80'

S:\0218 - RICHMOND WATER ENG SERVICES\02189 BYRD PARK TANK REHAB\21.04 PRESENTATIONS\RC908-0P01_2019/01/15_12:06 PM - PHILLIPS, EDWIN

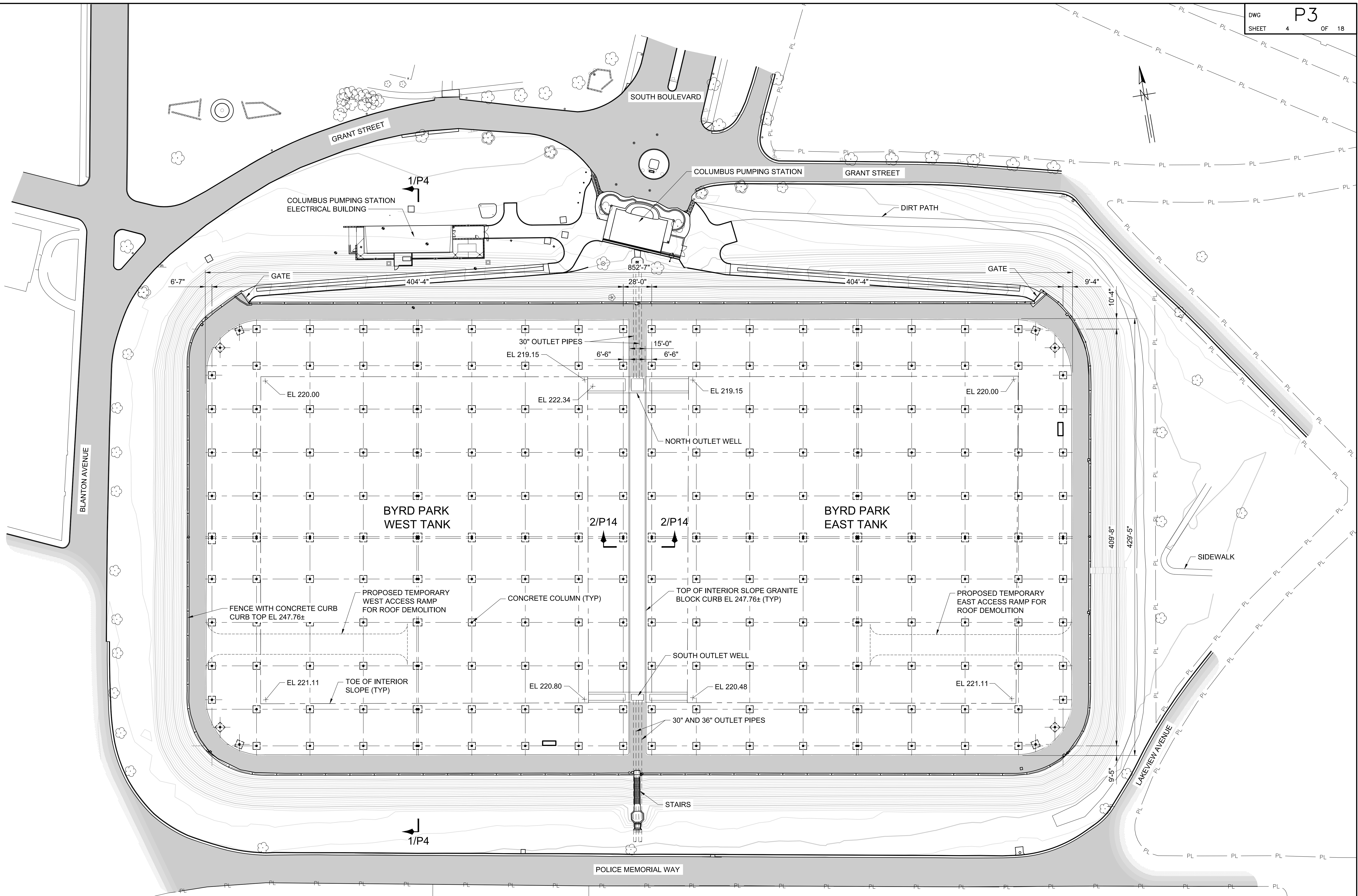




EXISTING UPPER PLAN

SCALE: 1" = 40'

S:\0218 - RICHMOND WATER ENG SERVICES\02189 BYRD PARK TANK REHAB\21 CAD\21.04 PRESENTATIONS\UPPER PLANS_2019\01\15_12:07 PM - PHILLIPS, EDWIN

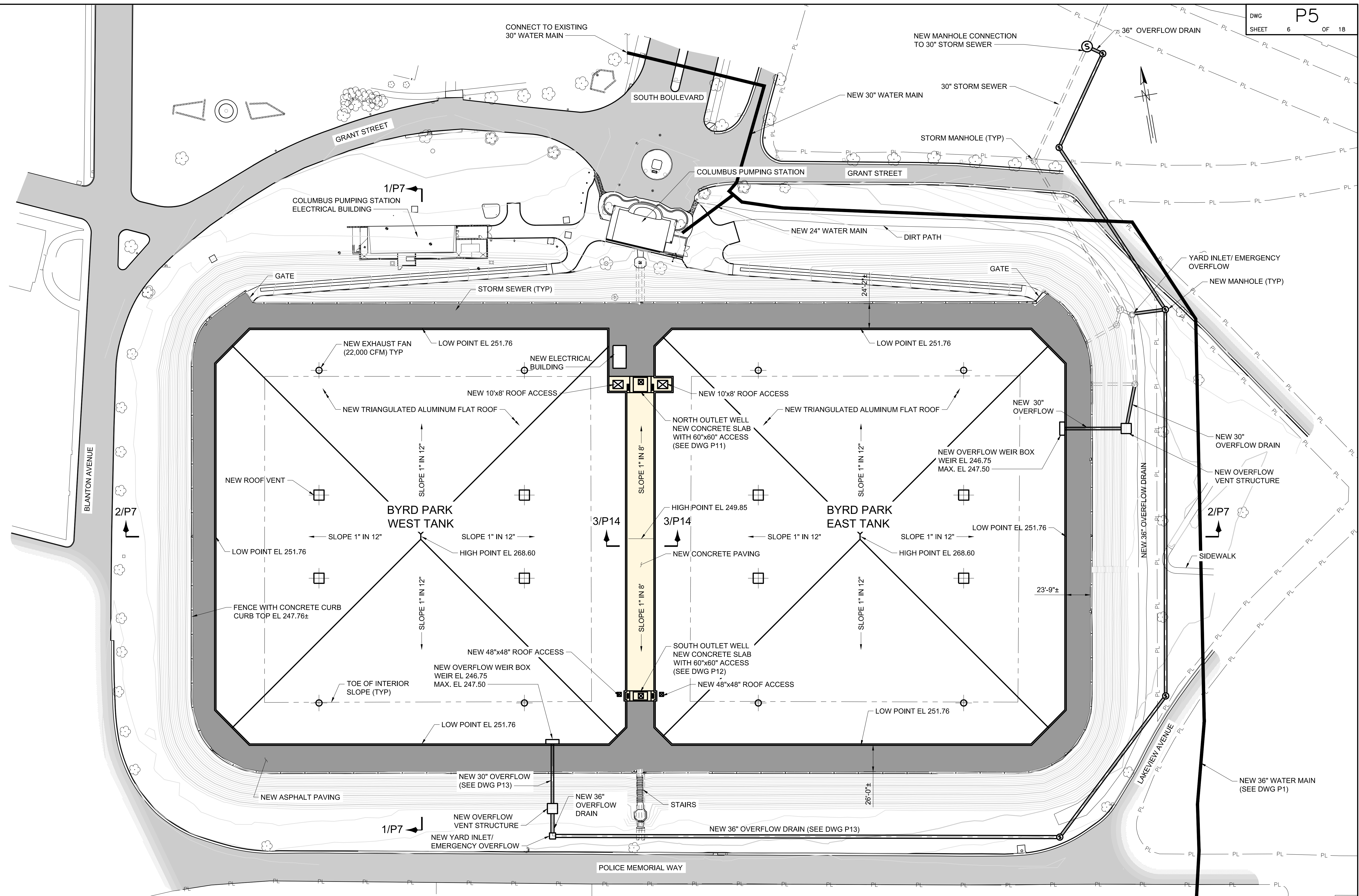


EXISTING LOWER PLAN

SCALE: 1" = 40'

S:\02189-RICHMOND-WATER-ENG-SERVICES\02189-BYRD-PARK-TANK-REHAB\21-CADD\21-04-PRESENTATIONS\LOWER-PLANS_2019\01\15_12:07_PM-PHILLIPS-EDWIN

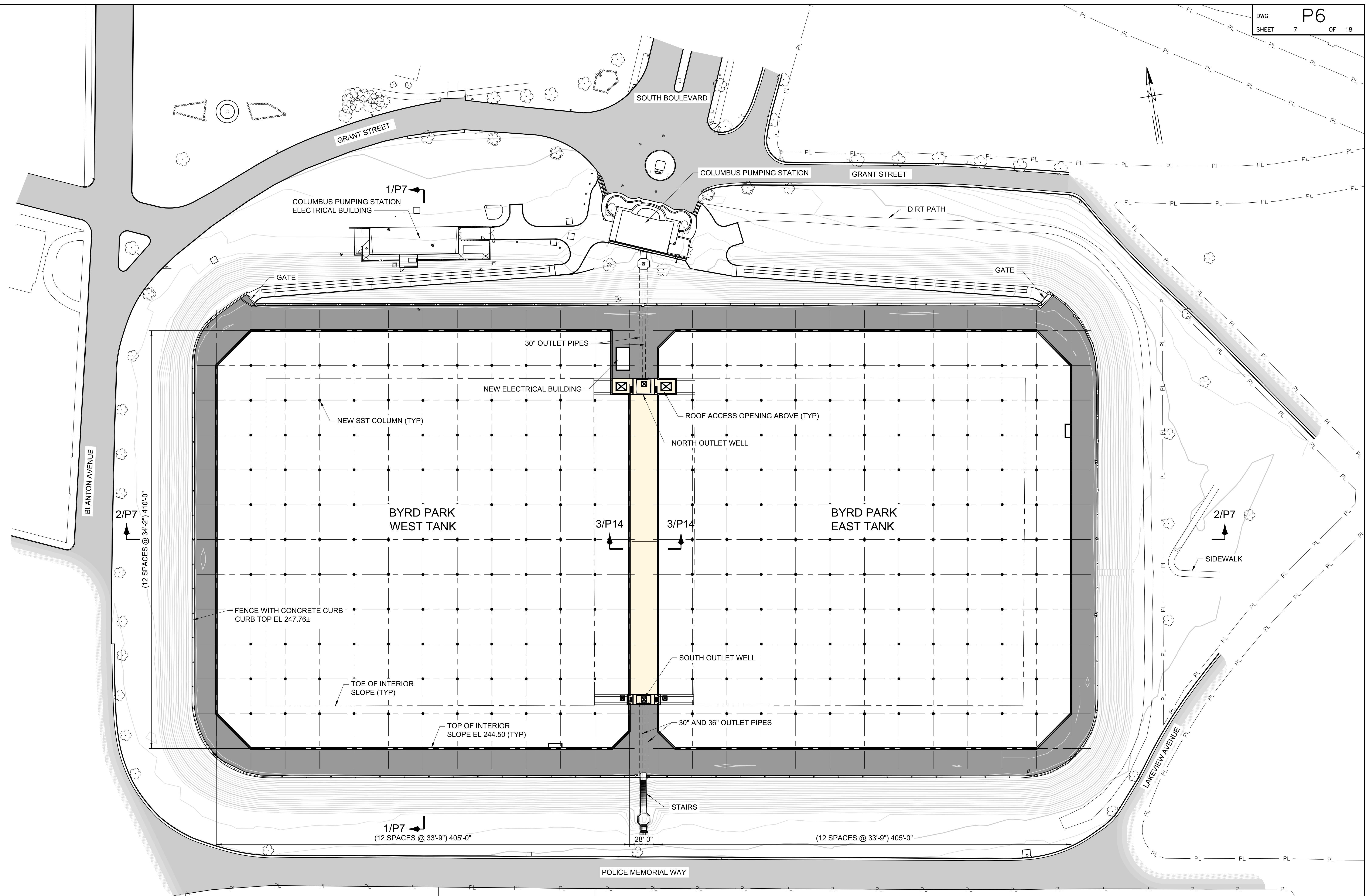




PROPOSED UPPER PLAN

SCALE: 1" = 40'

S:\0218 - RICHMOND WATER ENG SERVICES\02189 - BYRD PARK TANK REHAB\21 CAD\21.04 PRESENTATIONS\UPPER PLANS - 2019\01\15 - 12:07 PM - PHILLIPS, EDWIN

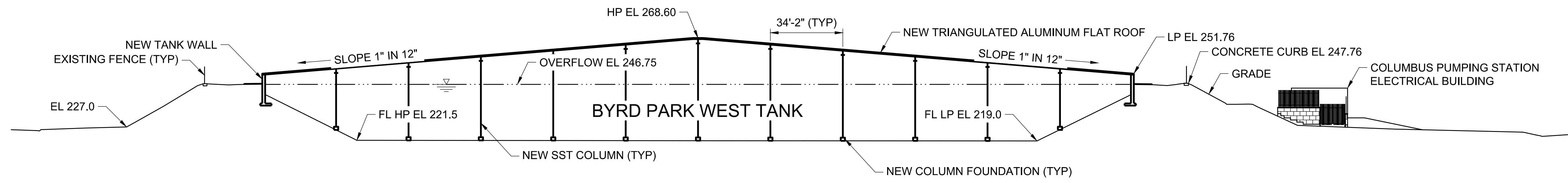


PROPOSED LOWER PLAN

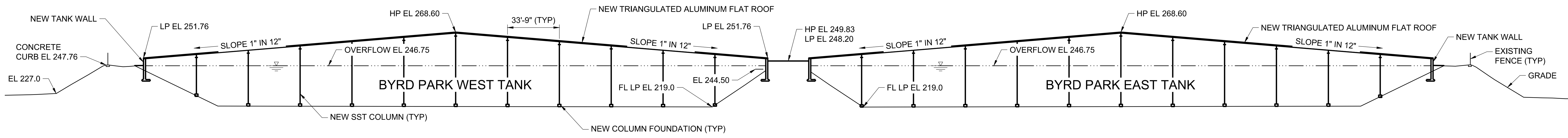
SCALE: 1" = 40'

S:\0218 - RICHMOND WATER ENG SERVICES\02189 BYRD PARK TANK REHAB\21 CAD\21.04 PRESENTATIONS\LOWER PLANS 2019\01\15 12:07 PM PHILLIPS.EDWIN





SECTION 1/P5, P6
 PROPOSED WEST TANK
 SCALE: 1" = 30'



SECTION 2/P5, P6
 PROPOSED WEST AND EAST TANK
 SCALE: 1" = 30'

PROPOSED TANK SECTIONS

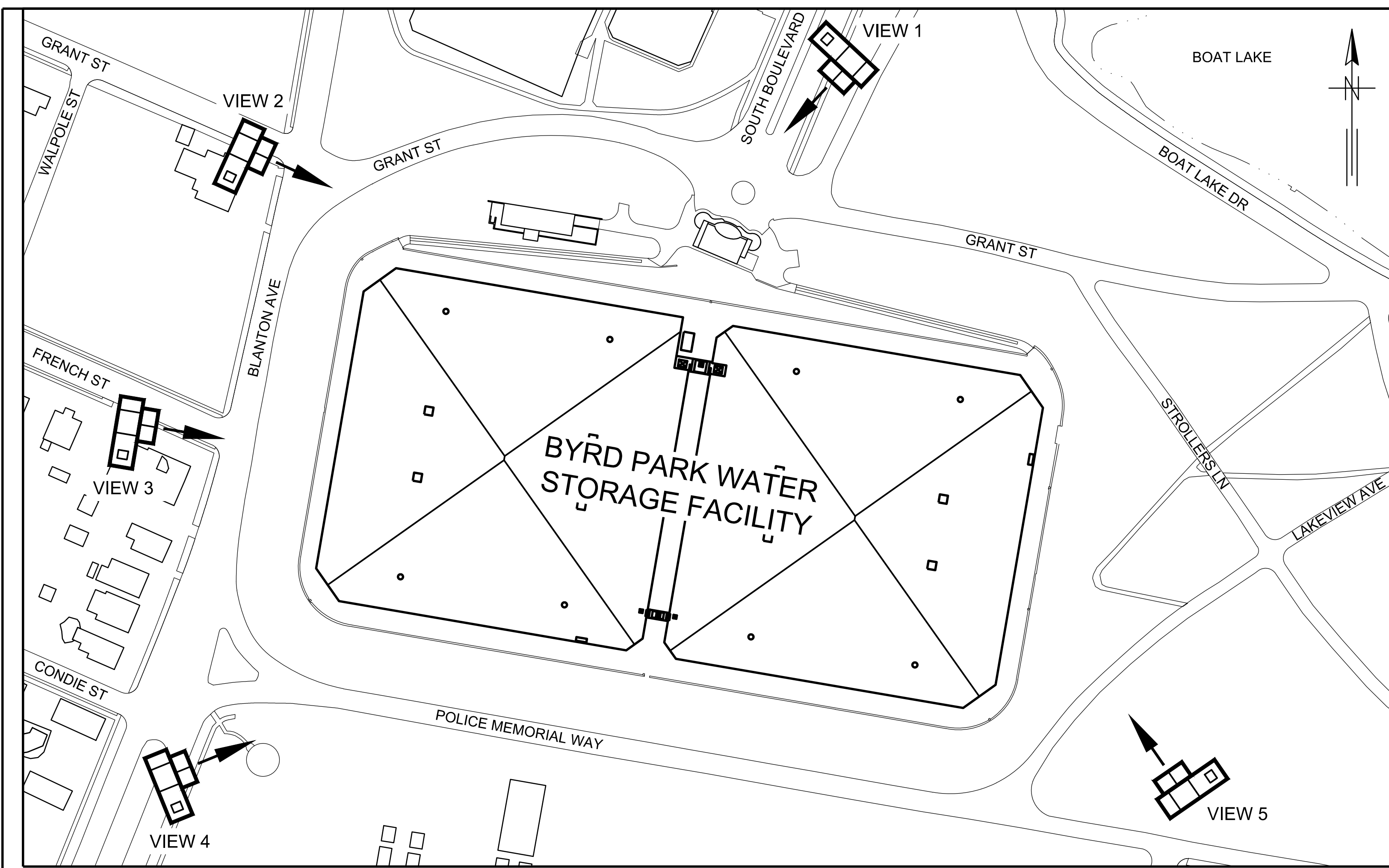
S:\021B-RICHMOND\WATER ENG SERVICES\02189\BYRD PARK TANK REHAB\21 CAD\21.04 PRESENTATIONS\SECTIONS - 2019\01\15 12:07 PM PHILLIPS, EDWIN



PROPOSED SOUTHWEST AERIAL VIEW

SCALE: NO SCALE

S:\0218 - RICHMOND WATER ENG SERVICES\02189 BYRD PARK TANK REHAB\21 CAD\21.04 PRESENTATIONS\RC908-OP08 2019/01/15 12:07 PM PHILLIPS, EDWIN



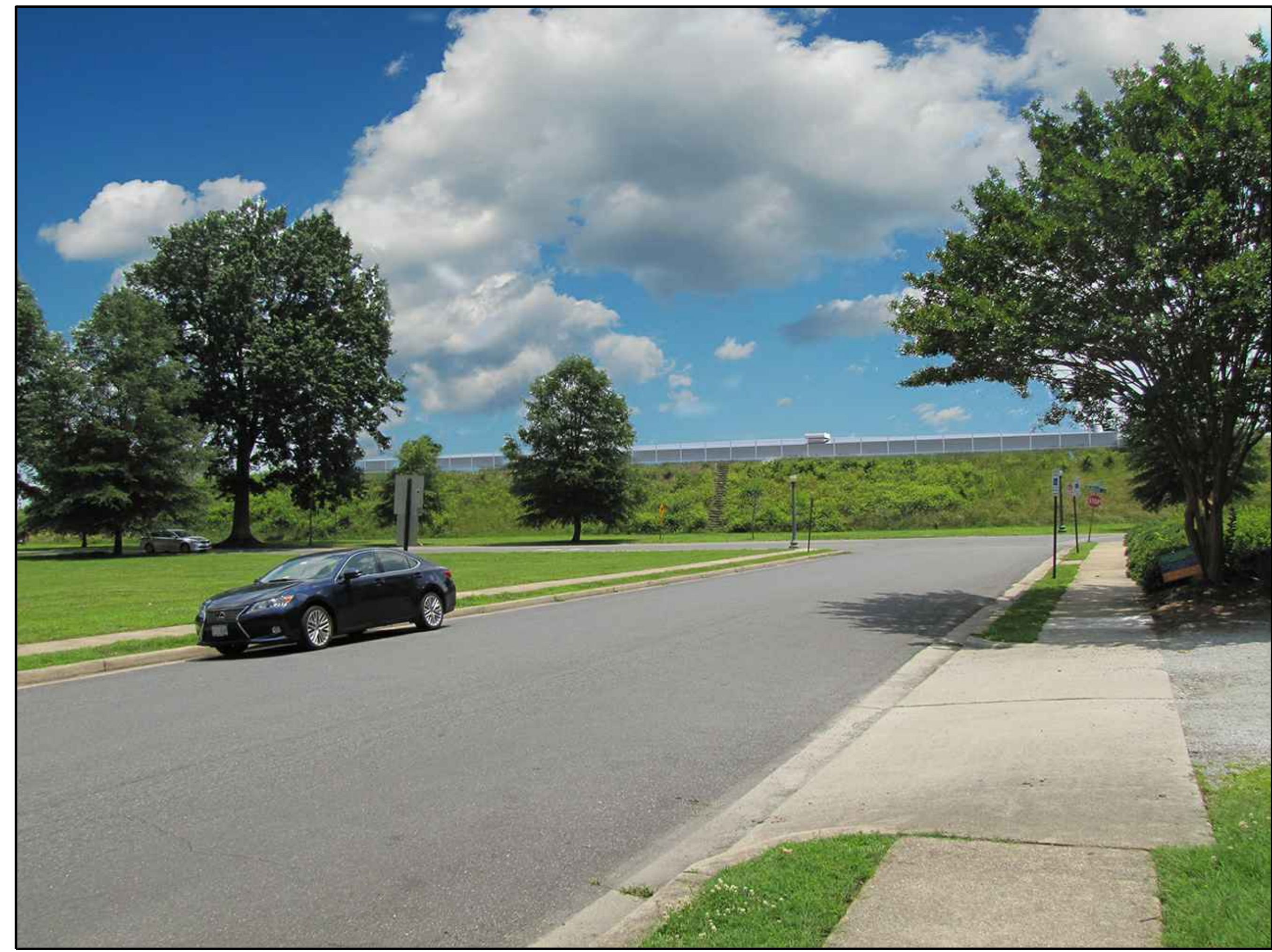
KEY MAP
 SCALE: NOT TO SCALE



PROPOSED STREET VIEW 1
 SCALE: NO SCALE

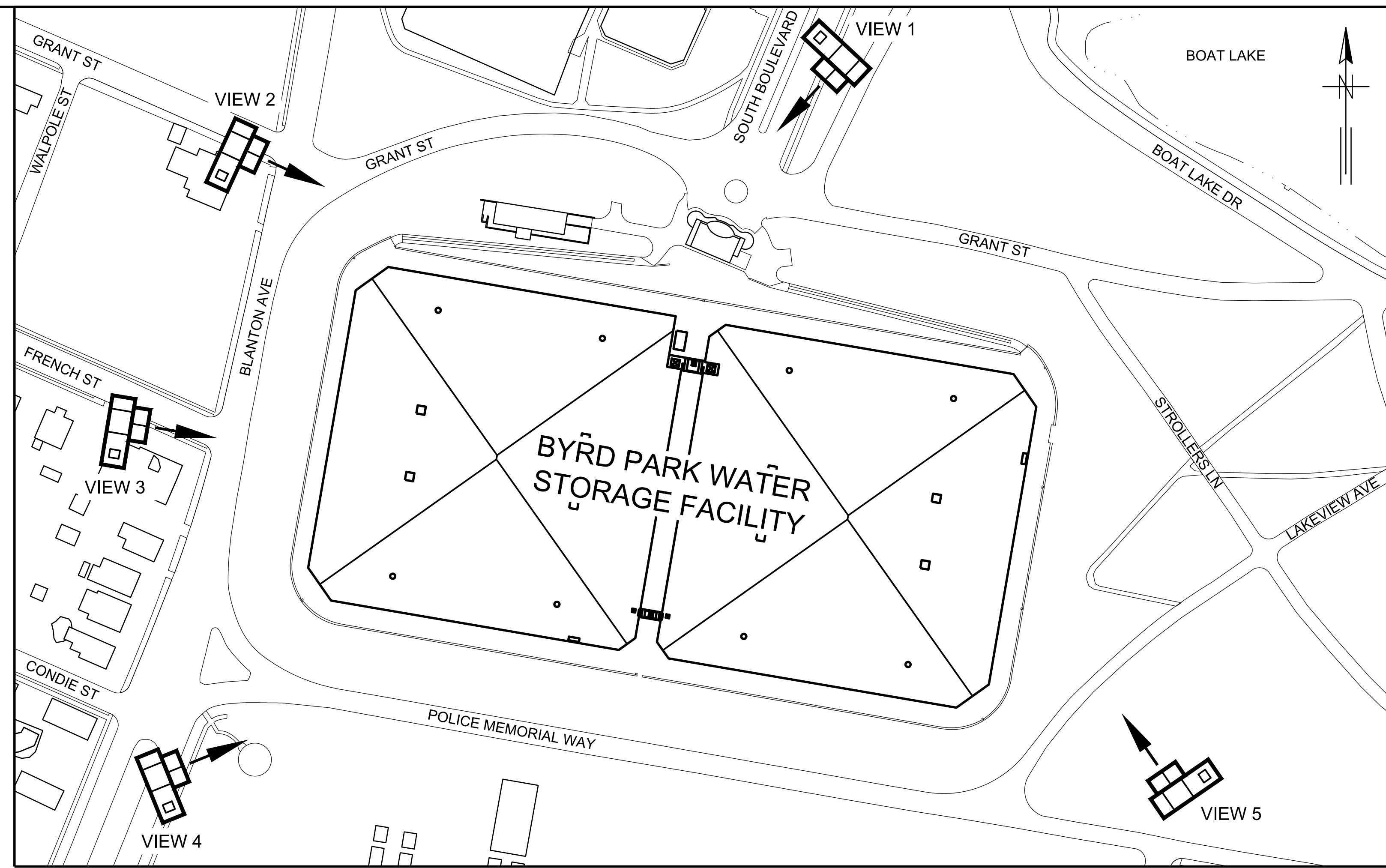


PROPOSED STREET VIEW 2
 SCALE: NO SCALE



PROPOSED STREET VIEW 3
 SCALE: NO SCALE

S:\0218 - RICHMOND WATER ENG SERVICES\02189 BYRD PARK TANK REHAB\21 CAD\21.04 PRESENTATIONS\RC908-OP09_2019/01/15_12:07 PM - PHILLIPS, EDWIN



KEY MAP
 SCALE: NOT TO SCALE

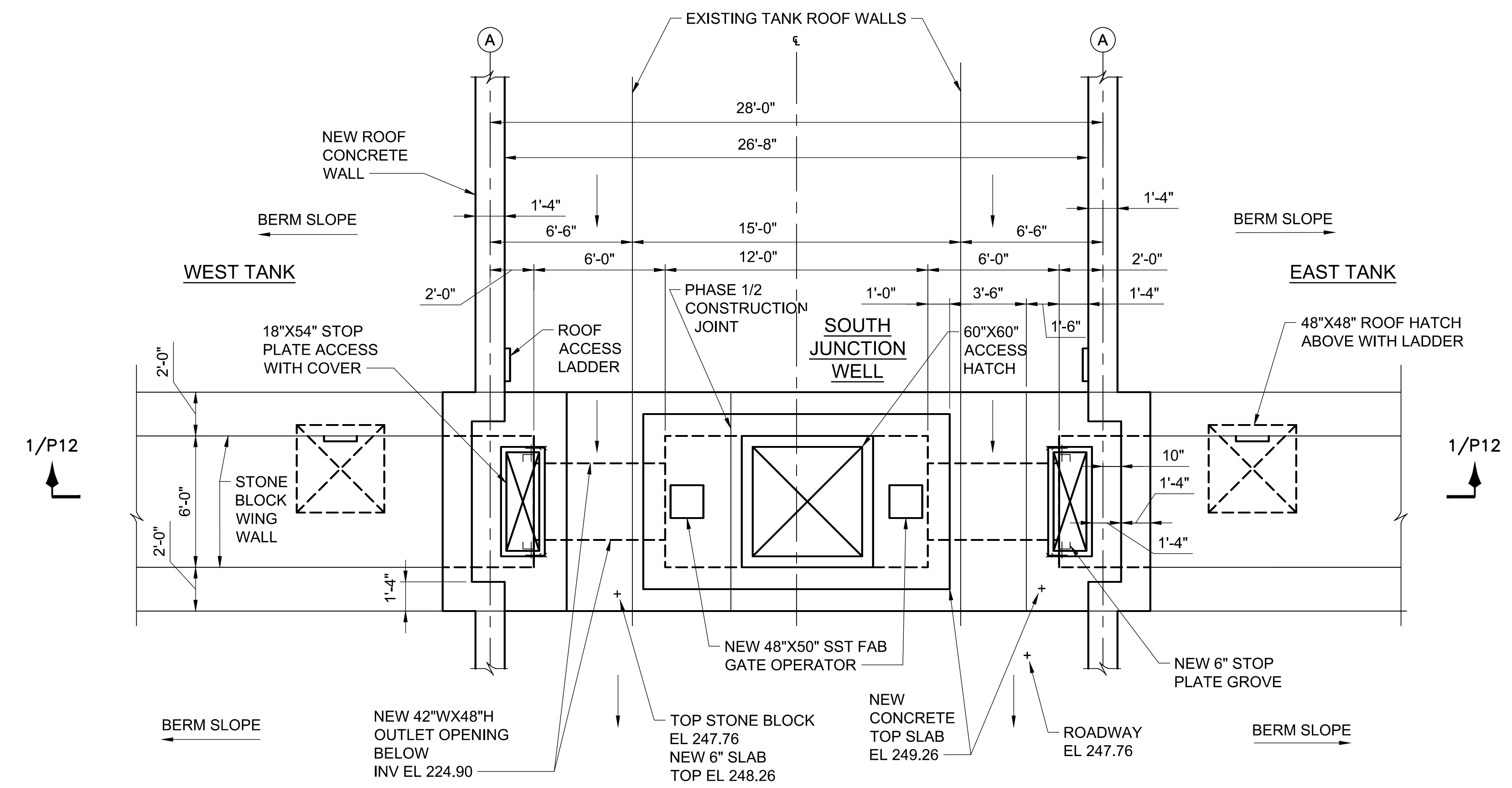


PROPOSED STREET VIEW 4
 SCALE: NO SCALE

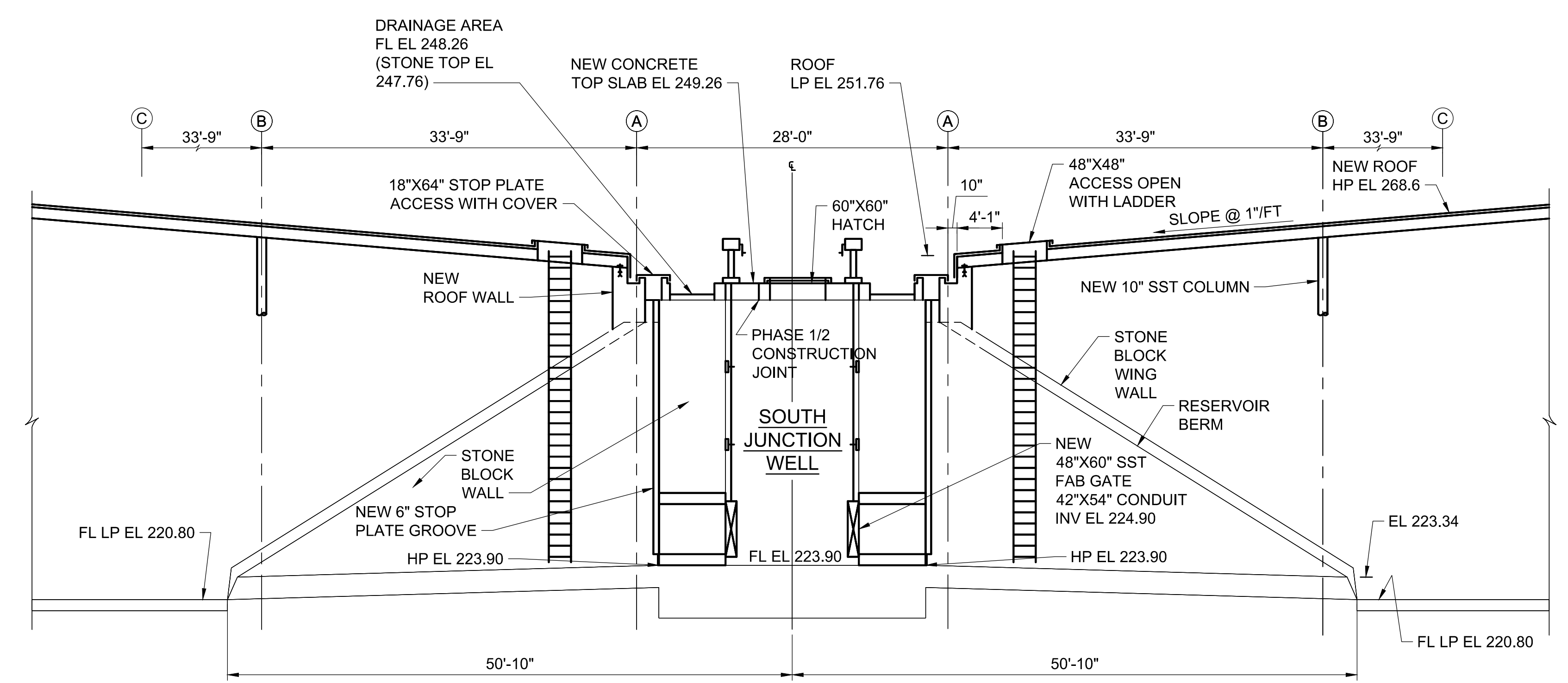


PROPOSED STREET VIEW 5
 SCALE: NO SCALE

S:\0218 - RICHMOND WATER ENG SERVICES\02189 - BYRD PARK TANK REHAB\21 CAD\21.04 PRESENTATIONS\RC908-OP09_2019\01\15_12:07 PM - PHILLIPS, EDWIN

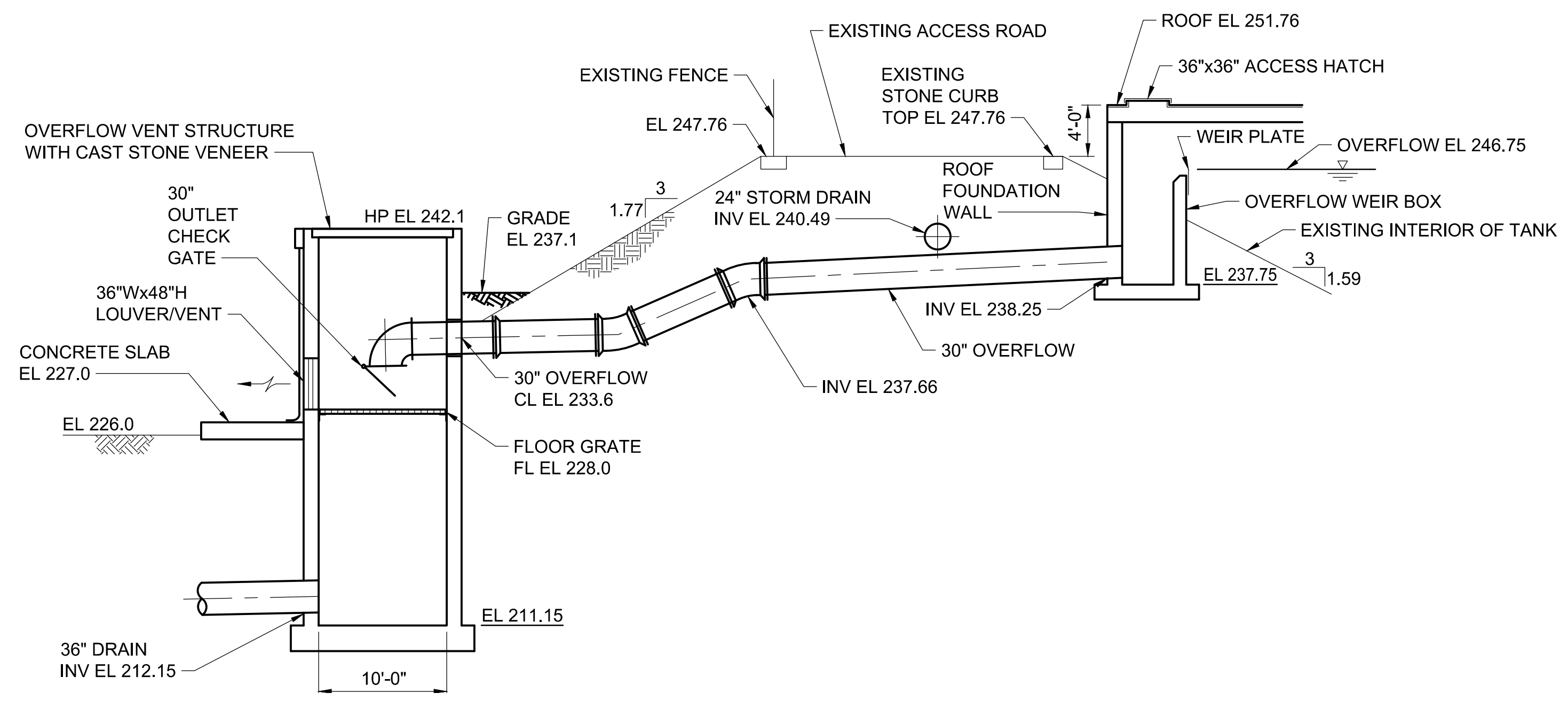


SOUTH JUNCTION WELL - TOP PLAN (PHASE 2)
SCALE: 1/4" = 1'-0"

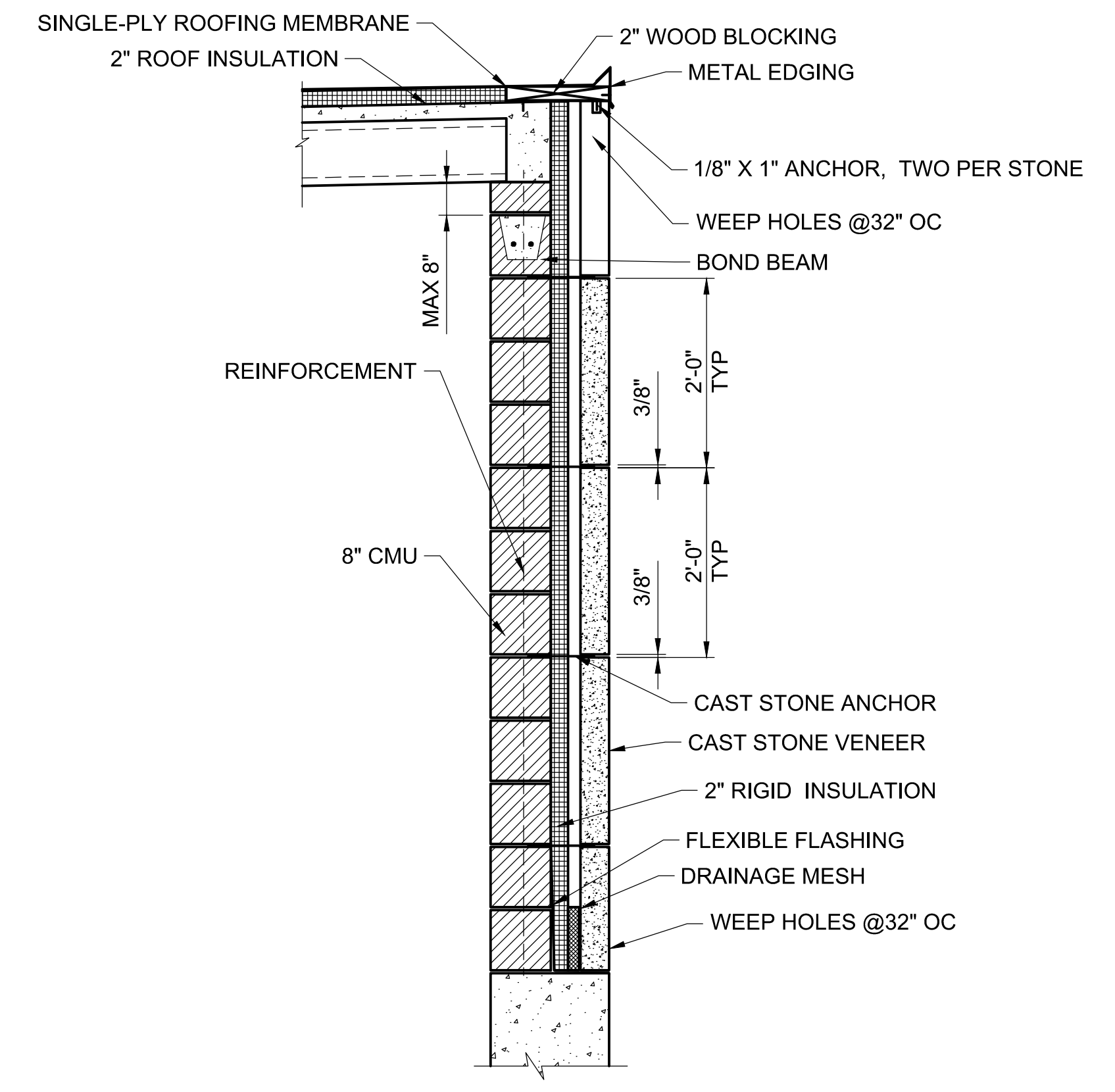


**SECTION 1/P12
SOUTH JUNCTION WELL (PHASE 2)**
SCALE: 1/8" = 1'-0"

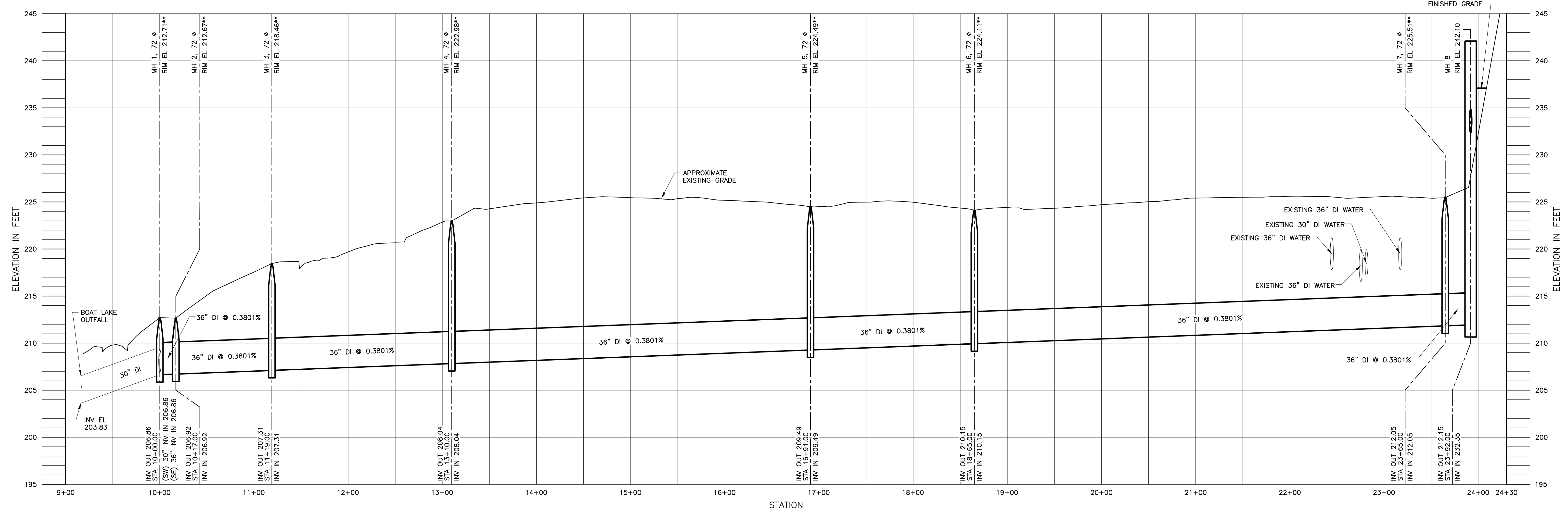
S:\021B - RICHMOND WATER ENG SERVICES\02189 BYRD PARK TANK REHAB\21 CAD\21.04 PRESENTATIONS\RC908-0P12_2019/01/15_12:08 PM - PHILLIPS, EDWIN



SECTION - OVERFLOW AND OVERFLOW WEIR BOX
SCALE: 1/8" = 1'-0"



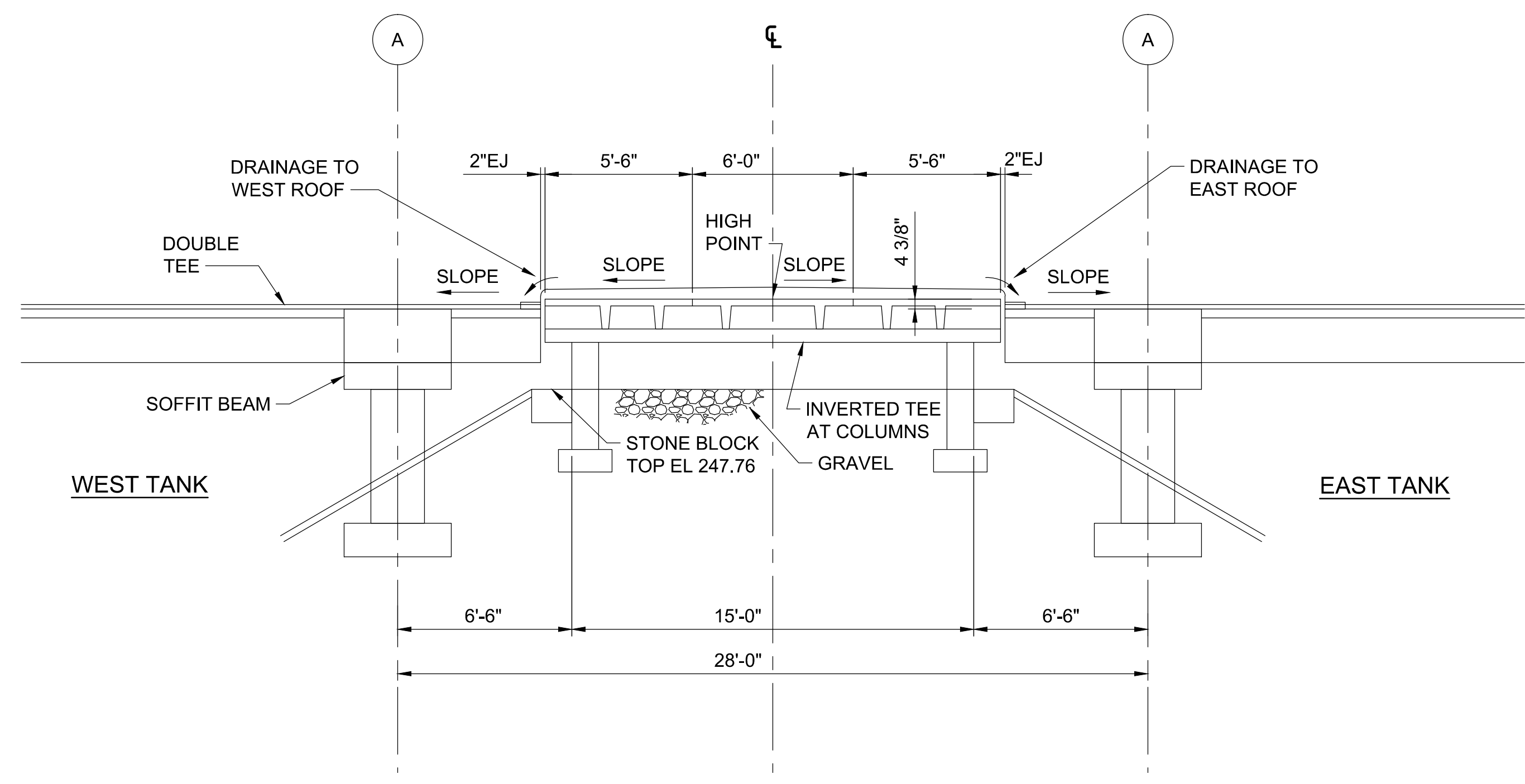
WALL SECTION - CAST STONE VENEER
SCALE: NOT TO SCALE



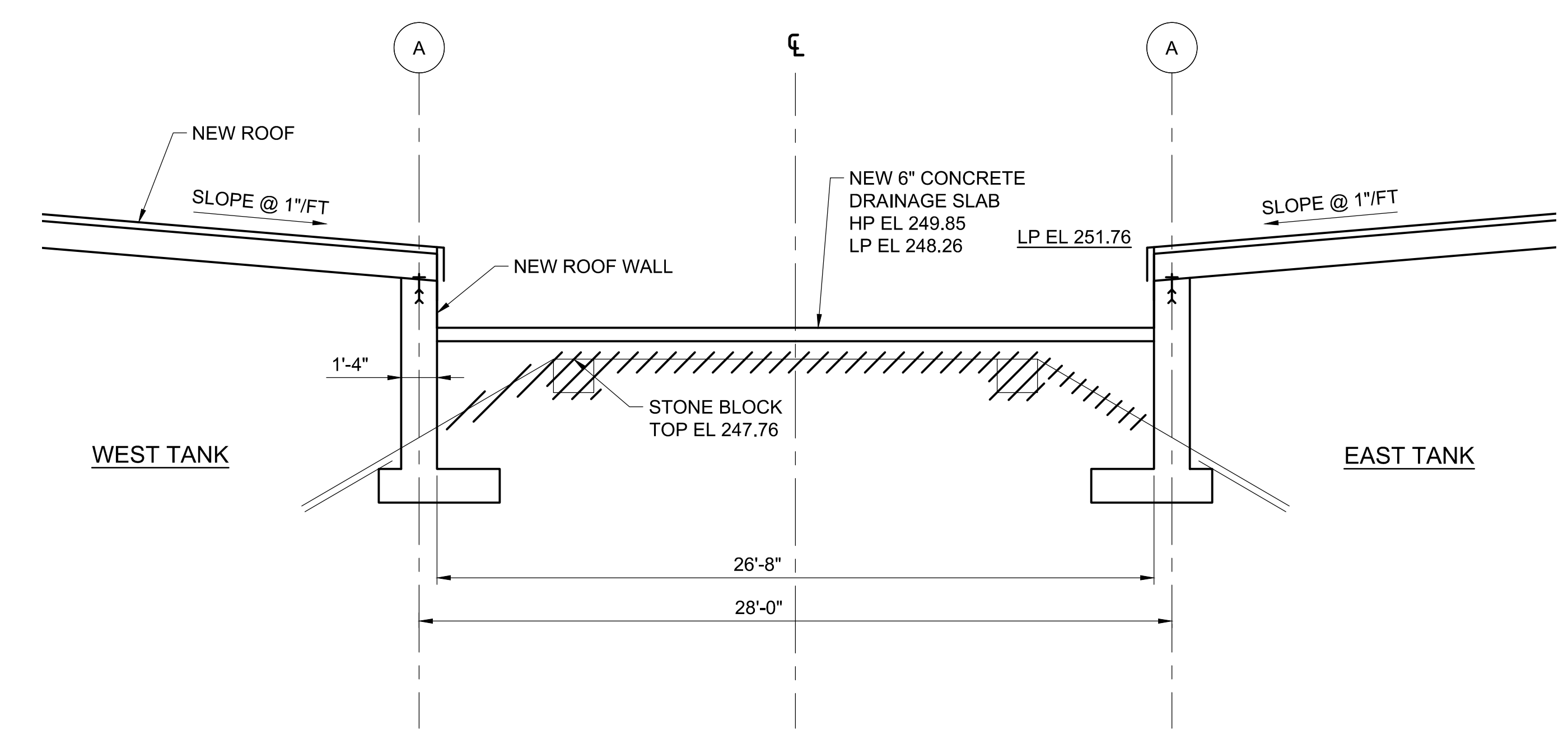
OVERFLOW PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL

TANK OVERFLOW - SECTION AND PROFILE

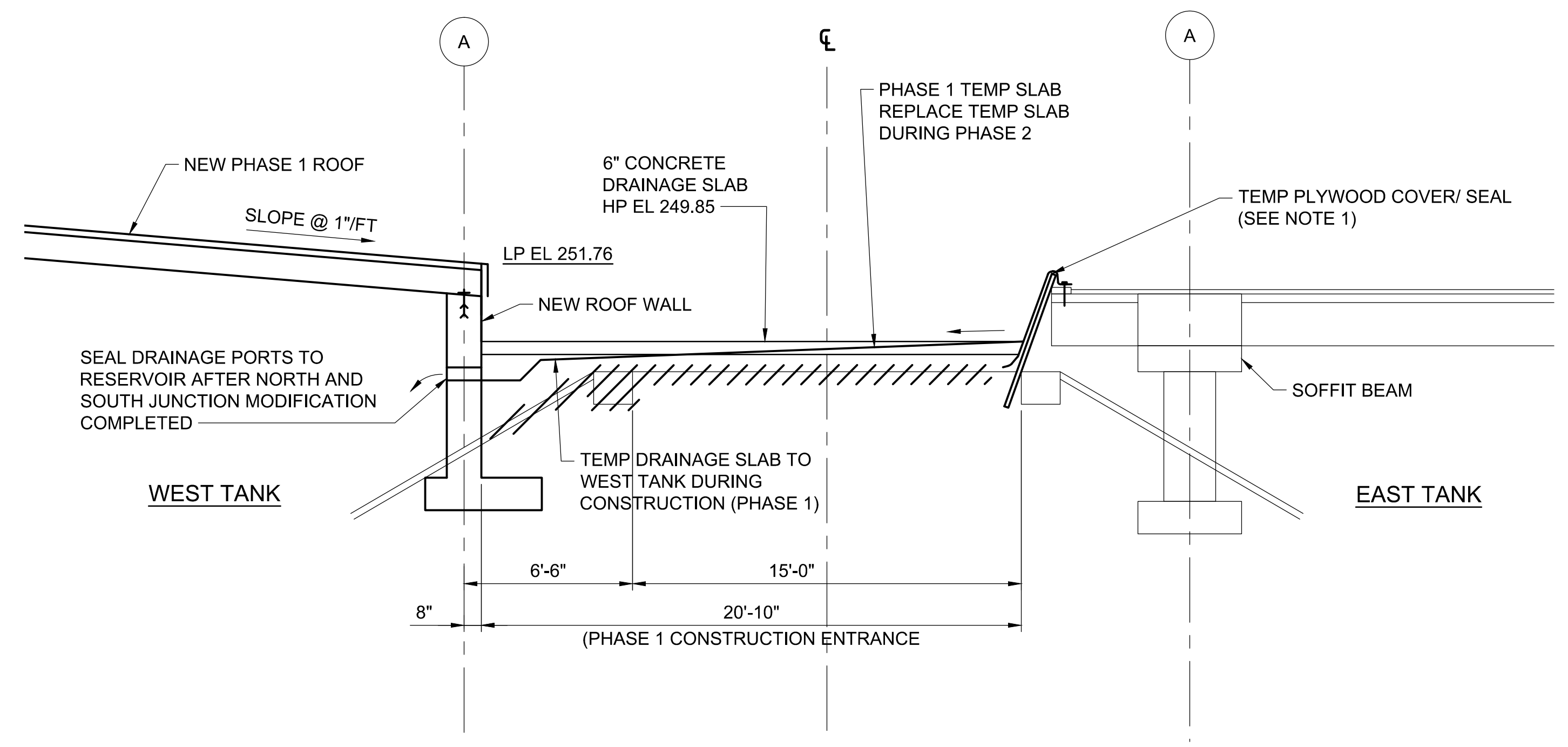
S:\0218 - RICHMOND WATER ENG SERVICES\02189 BYRD PARK TANK REHAB\21 CAD\21.04 PRESENTATIONS\RC908-OP13 2019/01/15 12:08 PM PHILLIPS, EDWIN



SECTION 2/P2, P3 - EXISTING
SCALE: 1/4" = 1'-0"



SECTION 3/P5, P6 - PHASE 2 (FINAL)
SCALE: 1/4" = 1'-0"



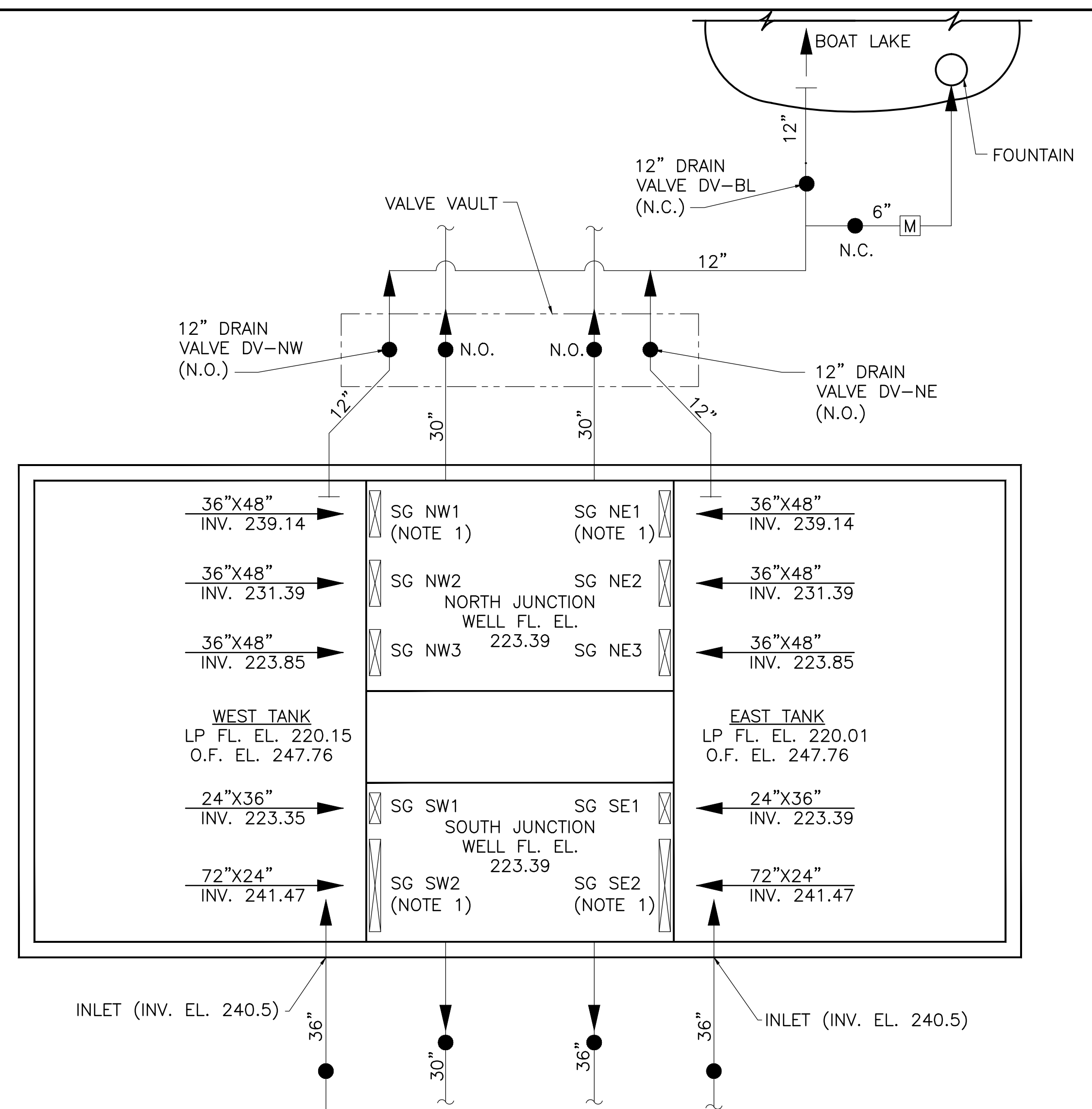
PHASE 1 SECTION (INTERMEDIATE)
SCALE: 1/4" = 1'-0"

NOTES:

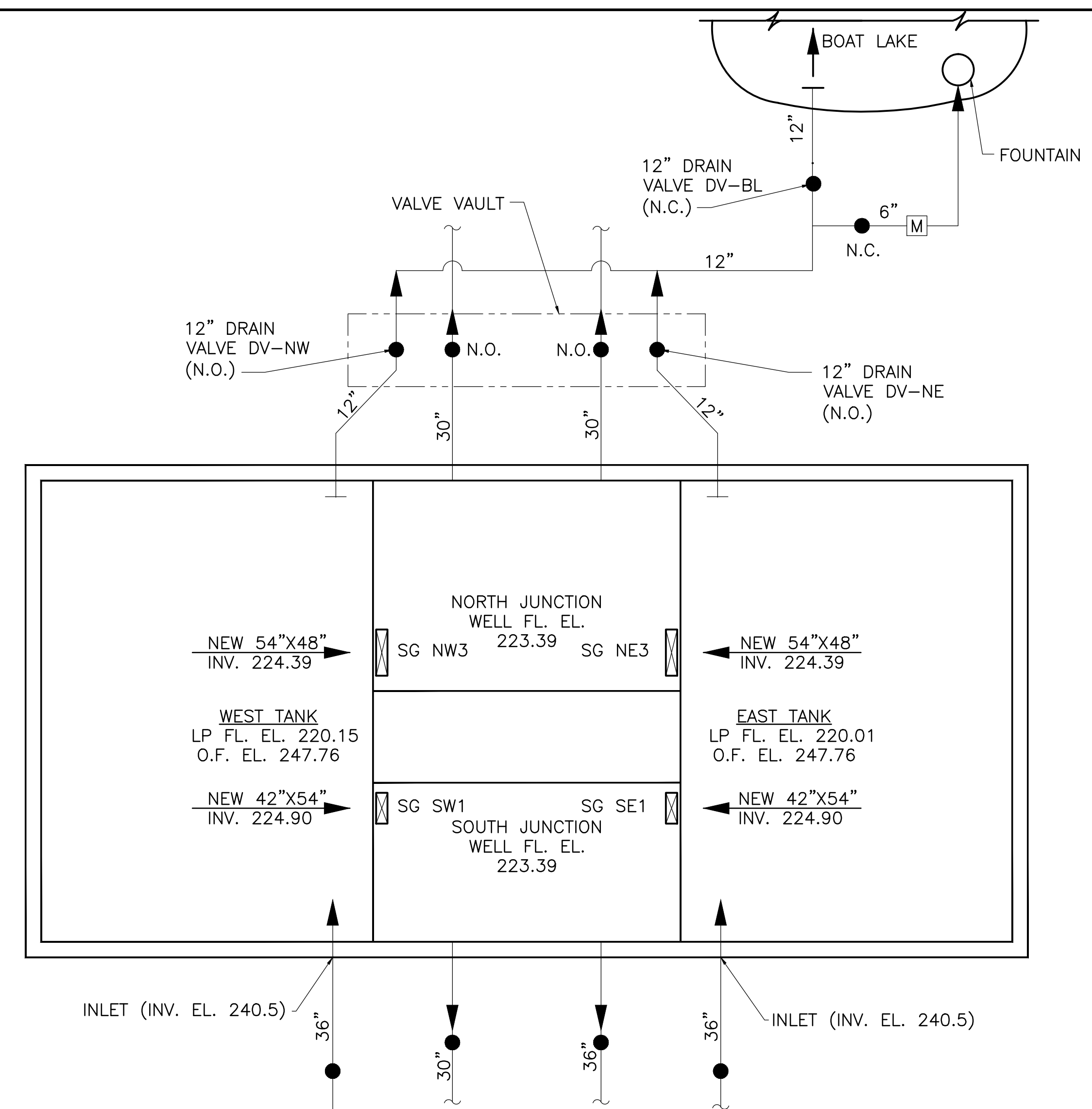
1. TEMPORARY PLYWOOD COVER AND SEAL INSTALLED BETWEEN EAST AND WEST TANKS PRIOR TO STARTING WEST TANK DEMOLITION.

TANK SECTIONS

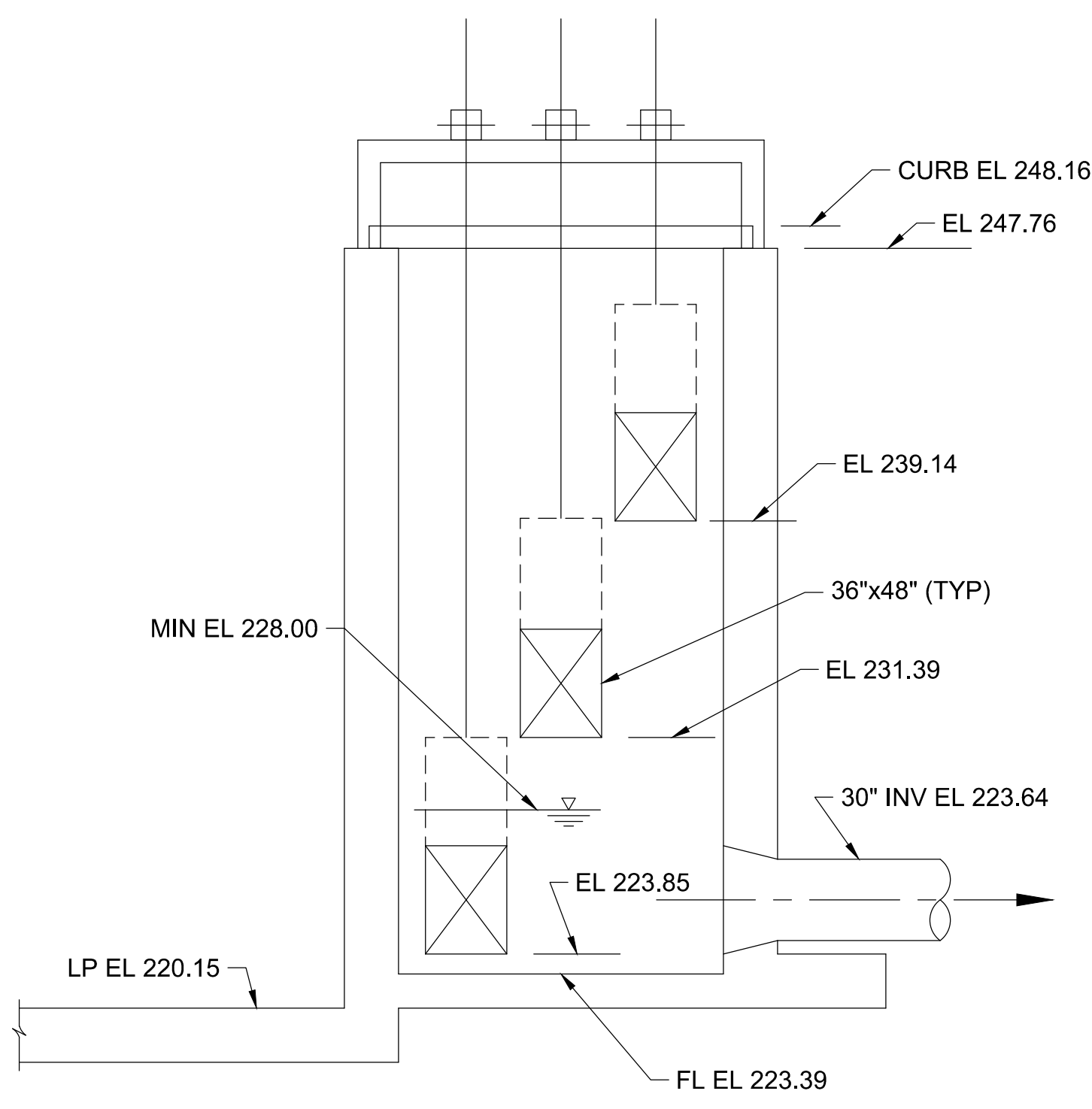
S:\021B - RICHMOND WATER ENG SERVICES\02189\BYRD PARK TANK REHAB\21 CAD\21.04 PRESENTATIONS\RC908-OP14 2019/01/15 12:08 PM PHILLIPS, EDWIN



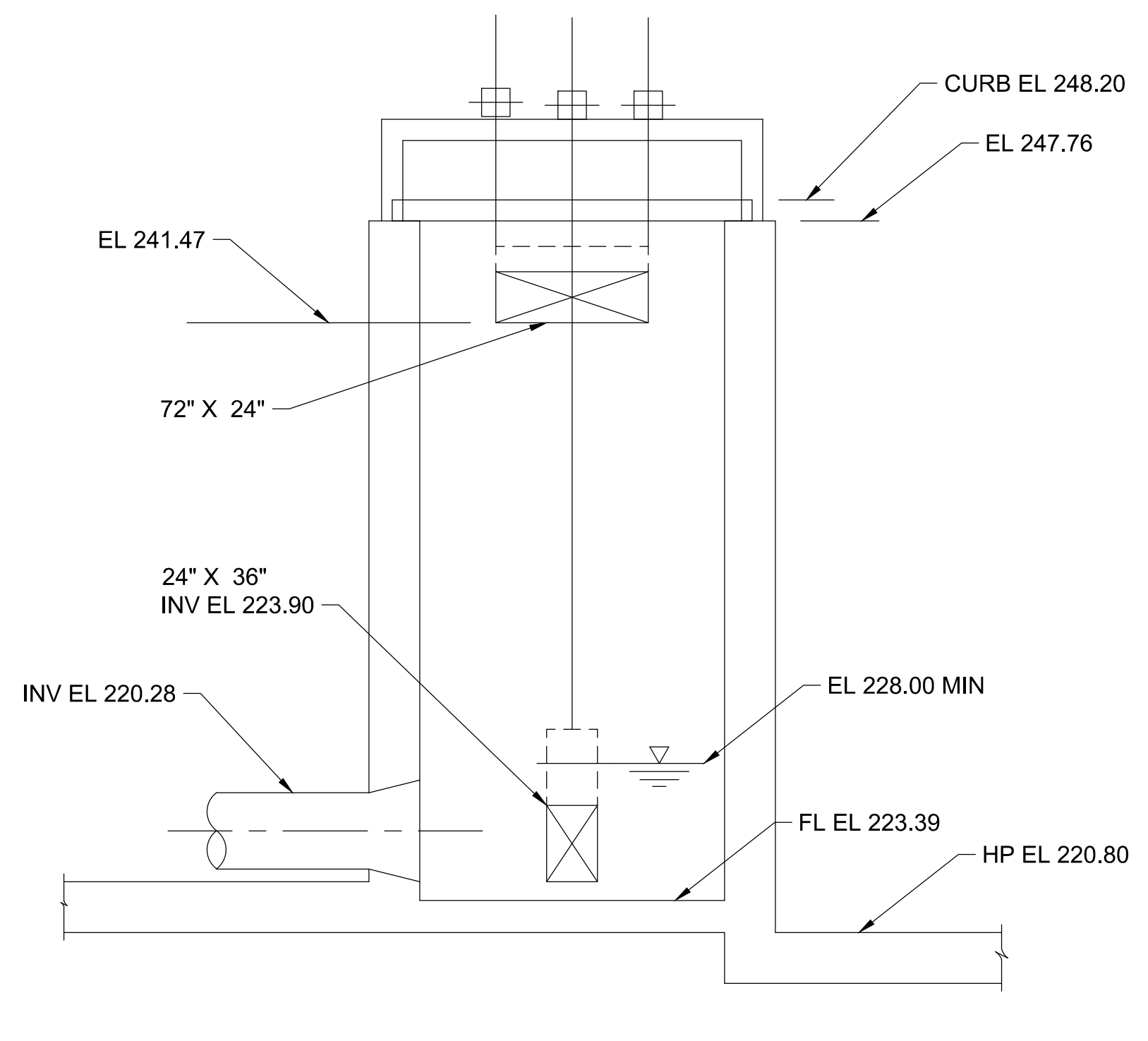
EXISTING SLUICE GATE DIAGRAM



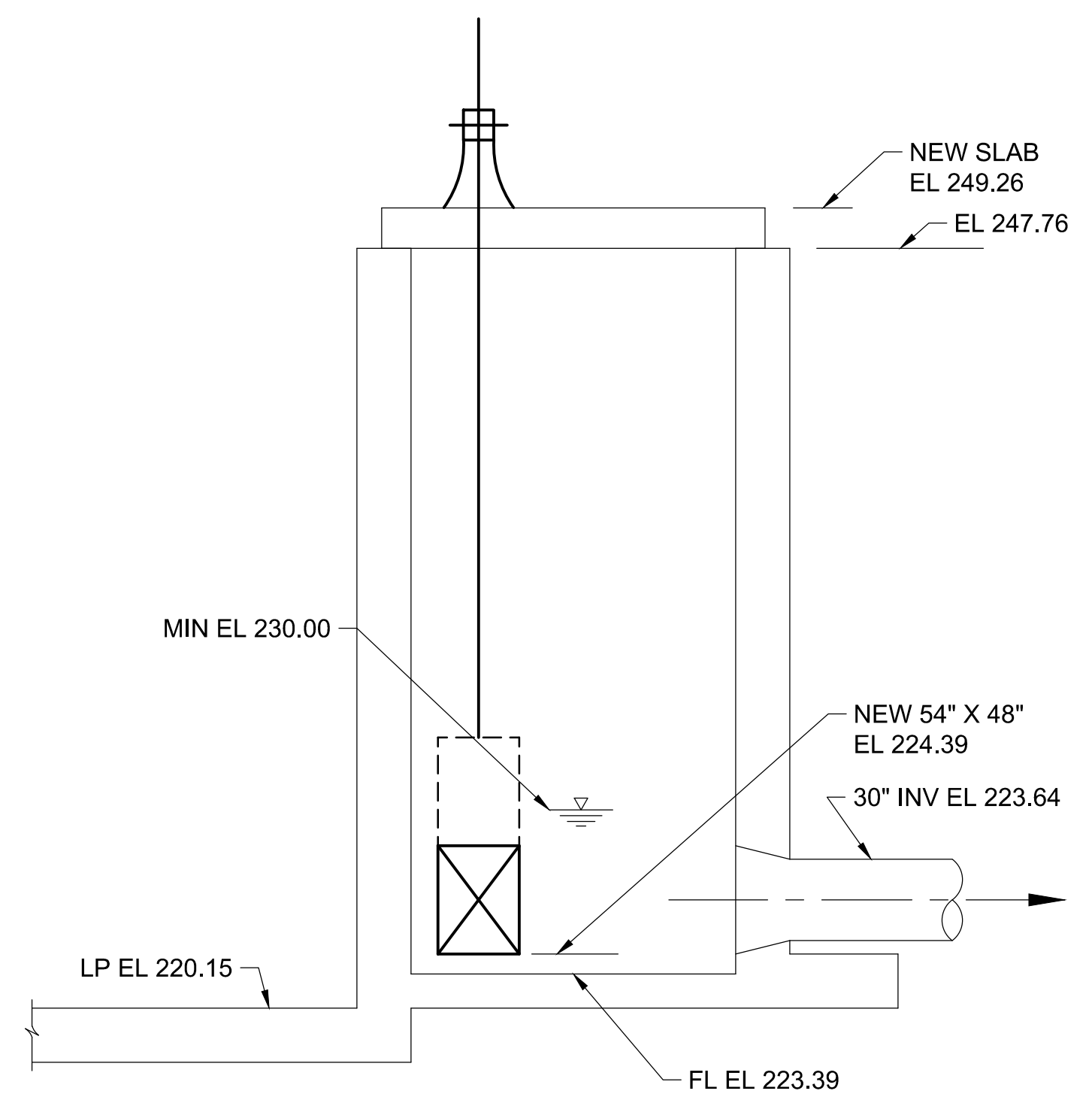
PROPOSED SLUICE GATE DIAGRAM



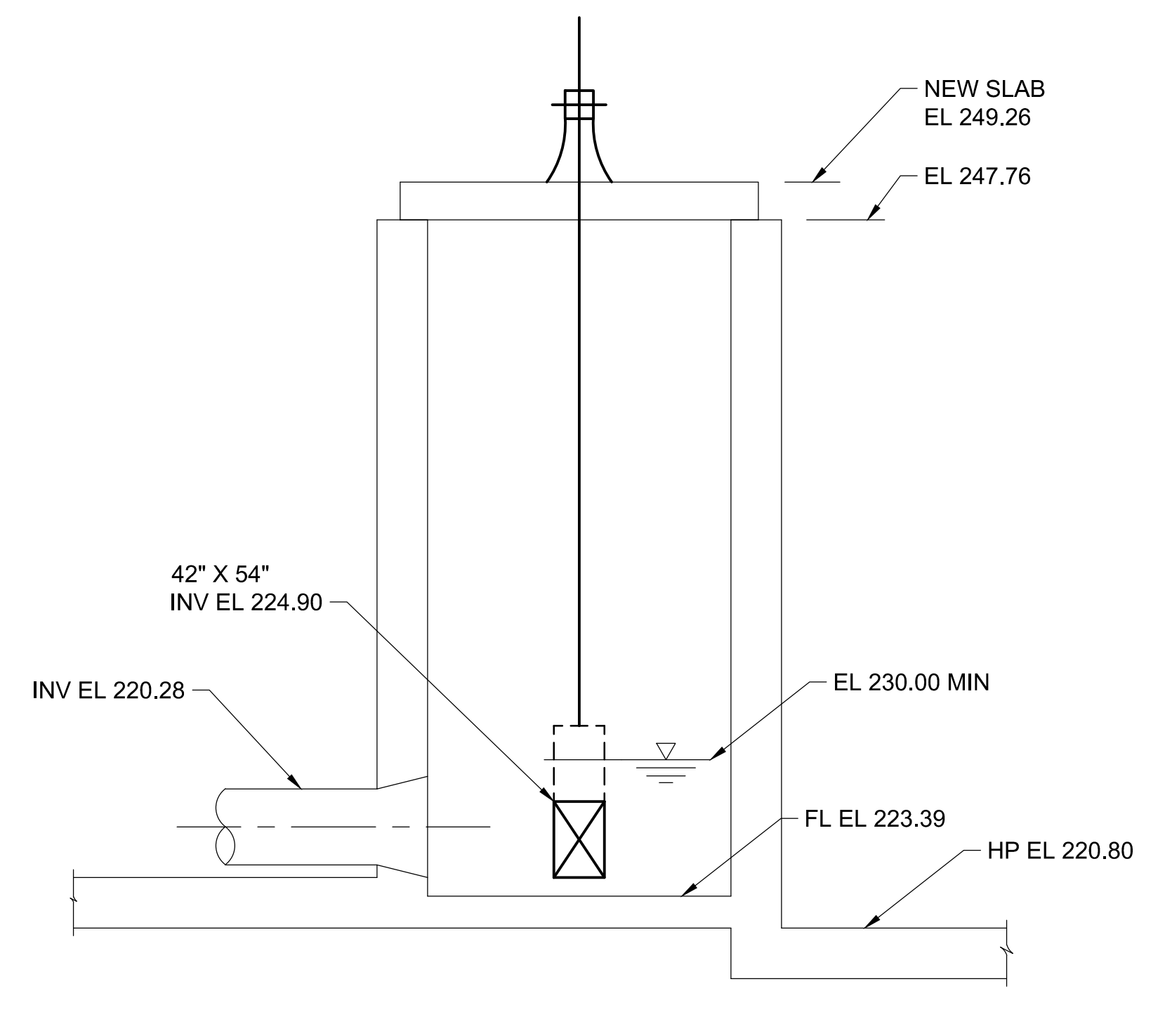
NORTH JUNCTION WELL SECTION



SOUTH JUNCTION WELL SECTION



NORTH JUNCTION WELL SECTION

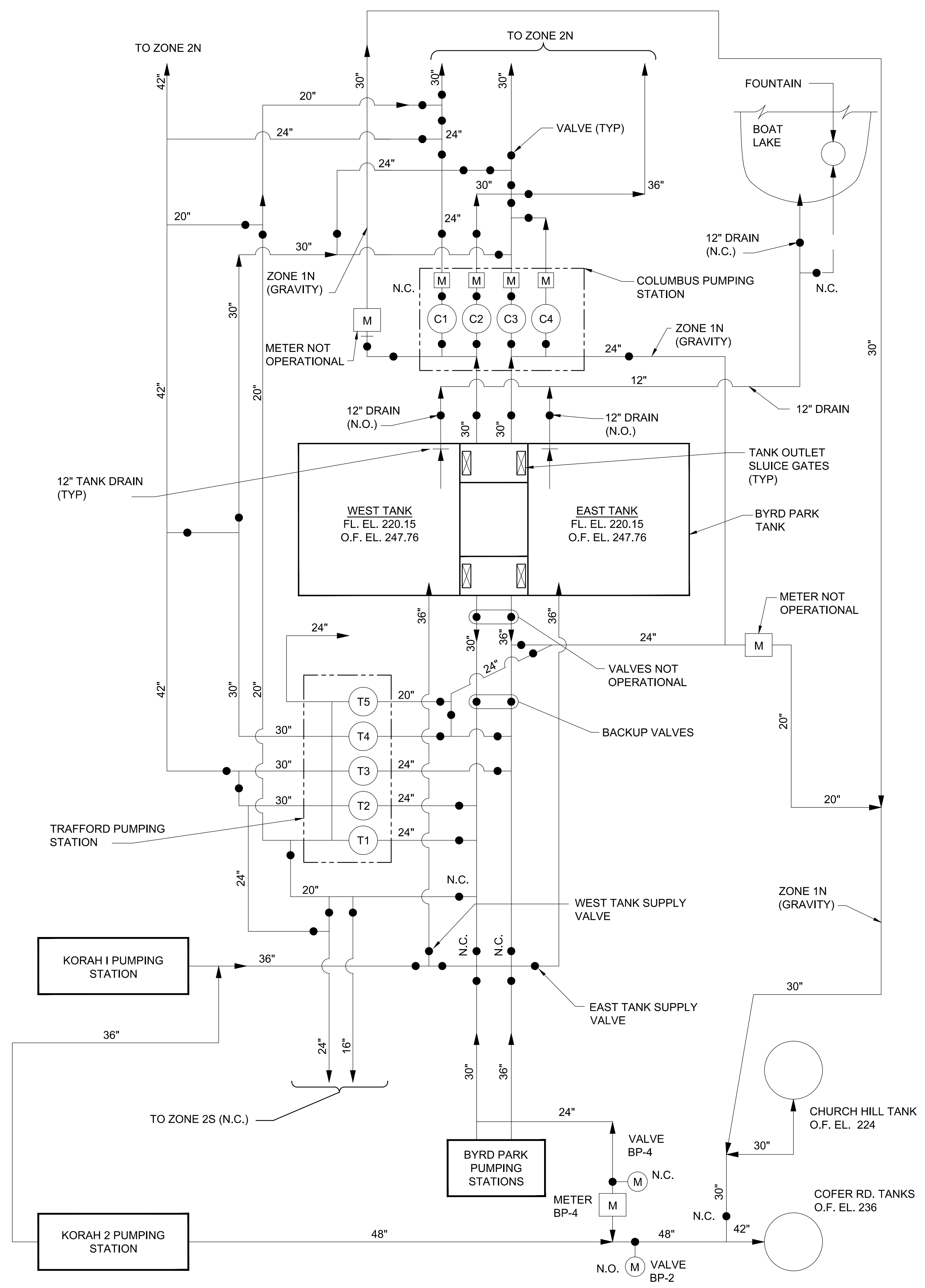


SOUTH JUNCTION WELL SECTION

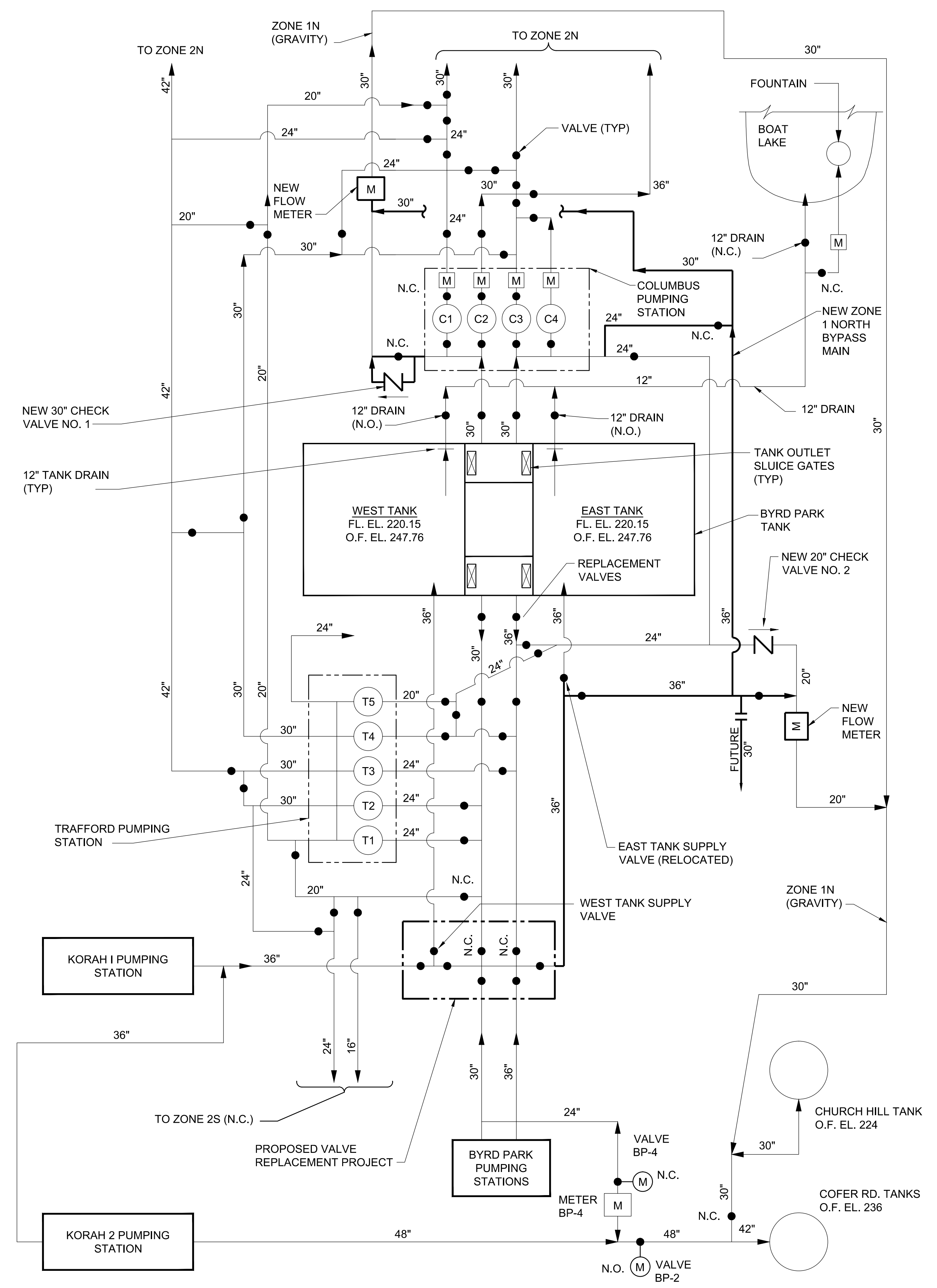
JUNCTION WELL SLUICE GATE DIAGRAMS

SCALE: NO SCALE

S:\02189-RICHMOND-WATER-ENG-SERVICES\02189-BYRD-PARK-TANK-REHAB\21-CADD\21-04-PRESENTATIONS\RC908-0PT15-2019\01\15-12:08-PM-PHILLIPS, EDWIN



EXISTING PIPING DIAGRAM

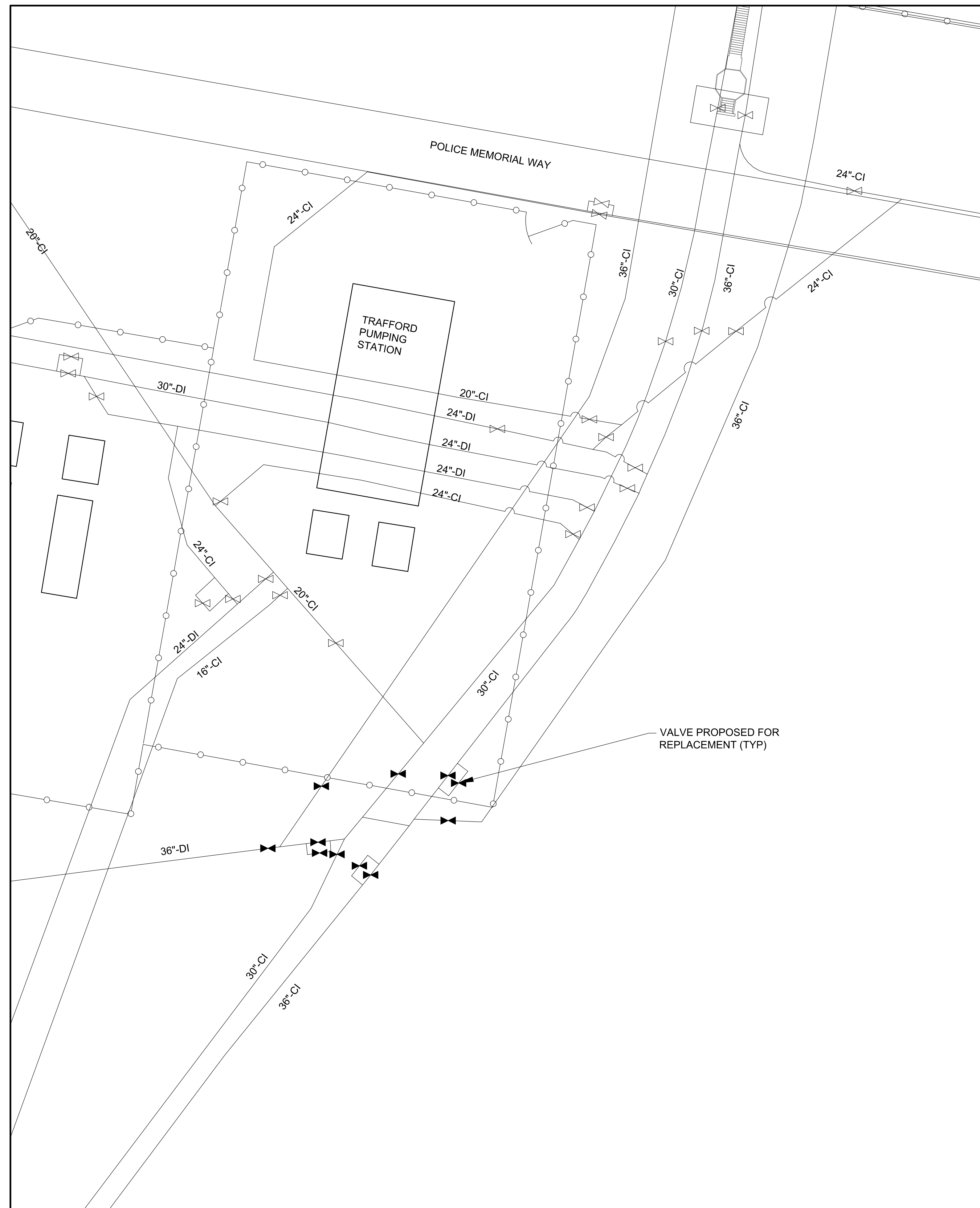


PROPOSED PIPING DIAGRAM

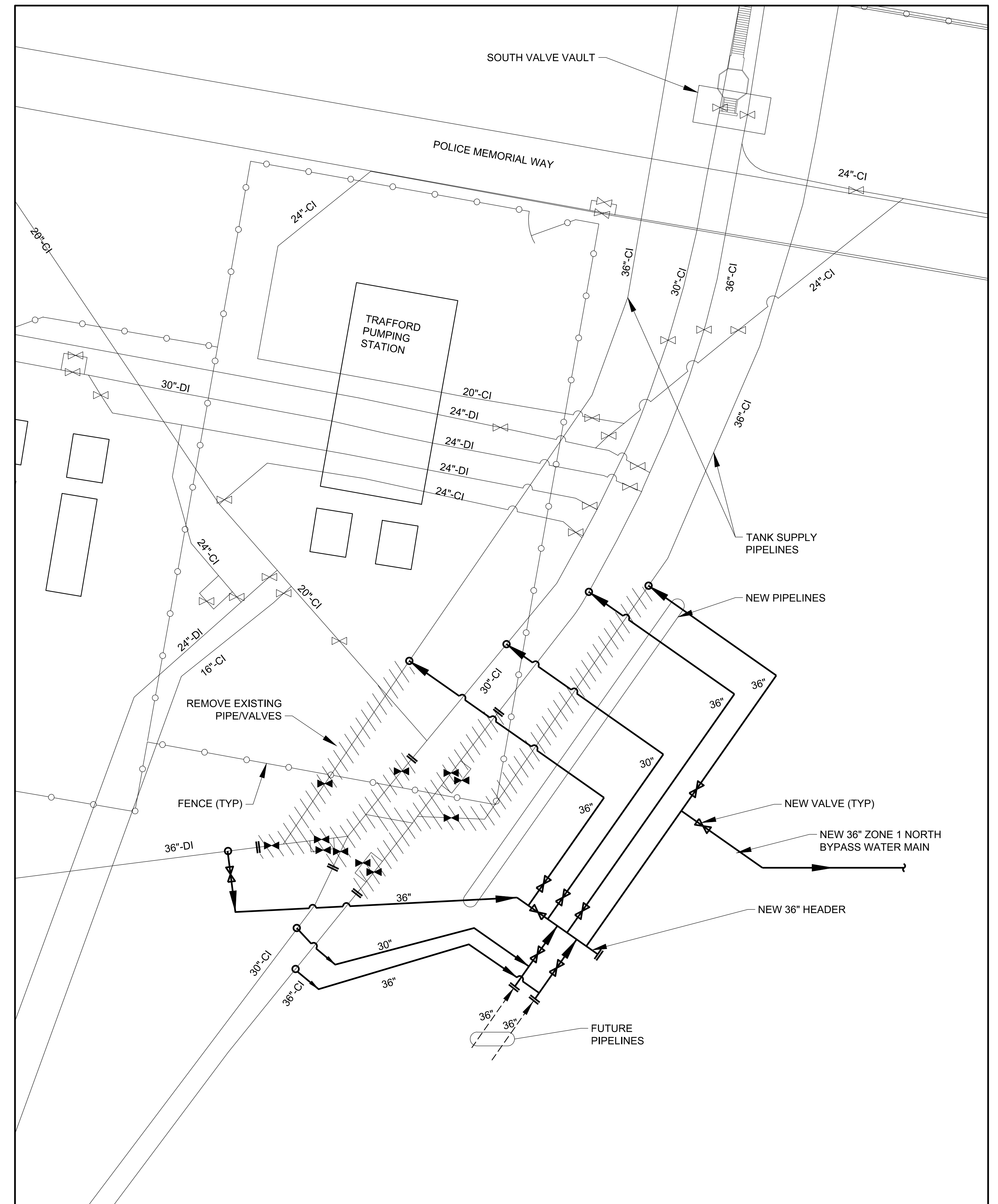
BYRD PARK ZONE 1N SUPPLY SYSTEM
SCALE: NO SCALE

S:\02189-RICHMOND-WATER-ENG-SERVICES\02189-BYRD-PARK-TANK-REHAB\21-CADD\21-04-PRESENTATIONS\RC908-0PT16-2019/01/15-12:08-PM-PHILLIPS, EDWIN





EXISTING PIPING DIAGRAM



PROPOSED PIPING DIAGRAM

BYRD PARK TANK SUPPLY SYSTEM

SCALE: NO SCALE

S:\0218\B-RICHMOND\WATER ENG SERVICES\02189\BYRD PARK TANK REHAB\21 CAD\21.04 PRESENTATIONS\RC908-0PT17_2019/01/15_12:08 PM - PHILLIPS, EDWIN



BYRD PARK TANK ROOF REPLACEMENT

PROJECT SUMMARY:

The City of Richmond is replacing the roofs on the 50 million gallon finished water storage facility located at the southern end of the Boulevard in Byrd Park.

The Byrd Park Reservoir was built in 1876 and was provided with a prestressed concrete roof in the early 1970s to fully enclose the open-air reservoir to form two basins. The existing concrete tank roof is reaching the end of its useful life and is being replaced by two new aluminum roofs. The existing and proposed tank roofs are shown below.



Existing
Concrete
Roof



Proposed
Aluminum
Roofs

WHAT'S HAPPENING NOW:

Preliminary conceptual design for the replacement of the tank roof is underway. Also underway is preliminary design of the valve, piping and other facility improvements related to the replacement of the tank roofs and other facility improvements.

PROJECT SCHEDULE:

Tank Utility Valves and Piping:

April 2019 through December 2019

West Tank Roof Replacement:

January 2020 through December 2020

East Tank Roof Replacement:

January 2021 through December 2021

Site Restoration and Final Landscaping:

January 2022 through June 2022

Mayor Levar M. Stoney



CITY OF RICHMOND

DEPARTMENT OF PUBLIC UTILITIES



Byrd Park Tank Roof Replacement – FAQ

What is the purpose of the project?

The Byrd Park Tank concrete roofs are about 46 years old and are reaching the end of their useful life. The rehabilitation of the existing tank roof is not considered cost effective and therefore the tank roofs will be replaced by new aluminum roofs. The tank roof replacement and other facility improvements are being implemented so that the City continues to provide high-quality water and distribution of water to customers.

How will tank roof removal and new roof construction impact my water service?

The two tank roofs will be replaced one at a time with one tank being maintained operational at all times. With this sequence of construction, we do not anticipate any water service disruptions.

Will this work impact access to the Byrd Park area?

The construction project will be within a fenced area and public access to the construction site will not be allowed due to safety considerations. A walkway will be maintained around the reservoir and full use and access to the park will remain unchanged during construction, except during short, localized disruptions.

Will this work impact traffic in the area?

The work is adjacent to public roads and some short-term lane closures will be needed. Lane closures will be scheduled for minimum disruption during peak traffic hours.

Will this work impact on-street parking?

During construction, on-street parking on Police Memorial Way will be restricted on the south side during short periods. Lane closures and restricted parking may span over multiple days. Depending on weather and construction progress, on-street parking may also be limited over the weekend. Signs will be posted 2 days before the work starts. Remaining streets should remain unaffected.

Will school bus traffic be affected?

The work will not affect school bus traffic or existing school bus routes.

When will this work be performed?

The City of Richmond's Department of Public Utilities anticipates that the work will mainly be performed between the hours of 8:00 a.m. to 5:00 p.m., Monday through Friday. Some isolated construction tasks may need to be performed after-hours or on weekends when water demands are reduced.

How long will it take?

Existing tank roof replacement is expected to take about 24 months and about 6 months will be needed for final site restoration and landscaping.

What environmental permits are needed?

Environmental permits required are Erosion Control and Sedimentation Permit and Stormwater Permit.

Will the tank be drained?

Each tank will be drained prior to the start of tank roof removal. Drain water will be treated, dechlorinated, and discharged to Boat Lake through the existing tank drain system.

Will the site be fenced?

The site will be fenced with the existing tank fencing and temporary fencing for facility security and safety.

IF YOU HAVE QUESTIONS,
CONCERNS OR COMMENTS ABOUT
THE PROJECT, PLEASE CONTACT:

Steve Morgan
Project Manager
Department of Public Utilities
Technical Services Division
804-646-8522
Stephen.Morgan@richmondgov.com

Mayor Levar M. Stoney



CITY OF RICHMOND
DEPARTMENT OF PUBLIC UTILITIES



MEDIA CONTACT:
Angela D. Fountain
Public Information Manager II
Department of Public Utilities
Communications Division
804-646-7323
Angela.Fountain@richmondgov.com