



Department of  
Environmental  
Conservation

The New York State Department of Environmental Conservation  
in partnership with Nassau County Department of Public Works

WESTERN BAYS RESILIENCY INITIATIVE

# **THE BAY PARK CONVEYANCE PROJECT**

A DESIGN-BUILD PROJECT

DEC Contract No. D011883

**REQUEST FOR PROPOSALS**

**VOLUME 2**

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
THE BAY PARK CONVEYANCE PROJECT  
CONTRACT D011883

---

**TABLE OF CONTENTS**

<b><u>SECTION</u></b>	<b><u>DESCRIPTION</u></b>
<b>SECTION 1</b>	Design Criteria Report
<b>SECTION 2</b>	Specifications
<b>SECTION 3</b>	Preliminary Drawings
<b>SECTION 4</b>	Geotechnical Baseline Report
<b>SECTION 5</b>	Reference Documents

Each Section has its own Table of Contents as applicable to the contents.



**SECTION 3**

Preliminary Drawings



The New York State Department of Environmental Conservation in partnership with Nassau County Department of Public Works

WESTERN BAYS RESILIENCY INITIATIVE:  
THE BAY PARK CONVEYANCE PROJECT  
A DESIGN-BUILD PROJECT

DEC Contract No. D011883

**REQUEST FOR PROPOSALS**  
**VOLUME 2 – SECTION 3**  
**PRELIMINARY DRAWINGS**

Prepared for



NASSAU COUNTY - STATE OF NEW YORK

# THE BAY PARK CONVEYANCE PROJECT PRELIMINARY DRAWINGS



APRIL 2020





**GENERAL**

SHEET NO.	DWG NO.	TITLE
1		COVER SHEET
2		DRAWING LIST
3	G-001	OVERALL PROJECT LOCATION PLAN
4	G-002	GENERAL NOTES AND ABBREVIATIONS
5	G-003	CONTRACT DRAWINGS USER GUIDE AND LEGEND

**BAY PARK EFFLUENT DIVERSION PUMP STATION**

SHEET NO.	DWG NO.	TITLE
6	BP-C100	BAY PARK FACILITY LOCATION PLAN
7	BP-C101	BPEDPS CIVIL WORK
8	BP-S050	BPEDPS SYMBOLS, ABBREVIATIONS, DESIGN CRITERIA
9	BP-S101	BPEDPS SUPPORT OF EXCAVATION
10	BP-S110	BPEDPS STRUCTURAL FLOOR PLAN - EFFLUENT DIVERSION CHAMBER LEVEL
11	BP-S111	BPEDPS STRUCTURAL PLAN AT EXISTING EFFLUENT CONDUIT LEVEL
12	BP-S112	BPEDPS STRUCTURAL PLAN - AT GRADE
13	BP-S113	BPEDPS STRUCTURAL FLOOR PLAN - LEVEL 1
14	BP-S114	BPEDPS STRUCTURAL FLOOR PLAN - LEVEL 2
15	BP-S115	BPEDPS STRUCTURAL ROOF FRAMING PLAN
16	BP-S310	BPEDPS STRUCTURAL BUILDING SECTION
17	BP-S601	BPEDPS SCHEDULES & DIAGRAMS
18	BP-A001	BPEDPS ARCHITECTURE SYMBOLS, ABBREVIATIONS AND NOTES
19	BP-A050	BPEDPS CODE COMPLIANCE - SUMMARY
20	BP-A101	BPEDPS ARCHITECTURE FLOOR PLAN AT GRADE
21	BP-A102	BPEDPS ARCHITECTURE FLOOR PLAN - LEVEL 1
22	BP-A103	BPEDPS ARCHITECTURE FLOOR PLAN - LEVEL 2
23	BP-A104	BPEDPS ARCHITECTURE ROOF PLAN
24	BP-A210	BPEDPS EXTERIOR FINISH ELEVATIONS- COLOR
25	BP-A301	BPEDPS ARCHITECTURE BUILDING SECTIONS
26	BP-A310	BPEDPS ARCHITECTURE WALL SECTION
27	BP-A311	BPEDPS ARCHITECTURE WALL SECTION
28	BP-A401	BPEDPS ENLARGED PLANS
29	BP-A501	BPEDPS DETAILS
30	BP-A502	BPEDPS DETAILS
31	BP-A601	BPEDPS DOOR FRAME SCHEDULE, TYPES AND DETAILS
32	BP-M001	BPEDPS GENERAL NOTES, SYMBOLS & ABBREVIATIONS
33	BP-M101	BPEDPS EFFLUENT DIVERSION PUMPING STATION ELEVATION -5'-0" PLAN
34	BP-M102	BPEDPS EFFLUENT DIVERSION PUMPING STATION ELEVATION 23'-0" PLAN
35	BP-M103	BPEDPS EFFLUENT DIVERSION PUMPING STATION ELEVATION 41'-0" PLAN
36	BP-M301	BPEDPS EFFLUENT DIVERSION PUMPING STATION ELEVATION SECTION 1
37	BP-M302	BPEDPS EFFLUENT DIVERSION PUMPING STATION ELEVATION SECTIONS 2 AND 3
38	BP-MH001	BPEDPS HVAC DRAWING LIST, LEGEND AND ABBREVIATIONS
39	BP-MH201	BPEDPS HVAC PUMP ROOM NEW WORK PLAN
40	BP-MH202	BPEDPS HVAC ELECTRICAL ROOM NEW WORK PLAN
41	BP-MH203	BPEDPS HVAC ROOM NEW WORK PLAN
42	BP-MH500	BPEDPS HVAC AIR RISER
43	BP-MH600	BPEDPS HVAC SCHEDULES
44	BP-MH700	BPEDPS HVAC DETAILS
45	BP-MP001	BPEDPS DRAWING LIST, LEGEND, ABBREVIATIONS, NOTES & RISER DIAGRAMS
46	BP-E001	BPEDPS GENERAL NOTES, SYMBOLS & ABBREVIATIONS
47	BP-E101	BPEDPS SITE PLAN
48	BP-E102	BPEDPS LOWER LEVEL POWER PLAN
49	BP-E103	BPEDPS UPPER LEVEL POWER PLAN
50	BP-E104	BPEDPS ELECTRICAL ROOM POWER PLAN
51	BP-E105	BPEDPS ROOF POWER PLAN
52	BP-E201	BPEDPS 4.16 Kv SWITCHGEAR ELEVATION
53	BP-E601	BPEDPS 4.16 Kv POWER DISTRIBUTION ONE-LINE DIAGRAM
54	BP-E602	BPEDPS 4.16 Kv SWITCHBOARD ONE-LINE DIAGRAM
55	BP-E603	BPEDPS MOTOR CONTROL WIRING DIAGRAM
56	BP-E604	BPEDPS MOTOR CONTROL WIRING DIAGRAM
57	BP-E605	BPEDPS MOTOR CONTROL WIRING DIAGRAMS
58	BP-ES-001	BPEDPS ELECTRICAL BLOCK DIAGRAM
59	BP-EG-001	BPEDPS ROOF LEVEL LIGHTNING AND GROUNDING PLAN
60	BPCC-M001	BPEDPS & CCEPS PROCESS FLOW DIAGRAM
61	BP-I601	BPEDPS EFFLUENT DIVERSION PUMPING STATION P&ID

**CEDAR CREEK STANDPIPE & EFFLUENT PUMP STATION**

SHEET NO.	DWG NO.	TITLE
62	CC-C100	CEDAR CREEK FACILITY LOCATION PLAN
63	CC-C101	CCWPCP WORK PLAN
64	CC-S101	CCWPCP STRUCTURAL STANDPIPE AND RECEIVING TANK FOUNDATION PLAN AND SECTION
65	CC-M001	CCWPCP GENERAL NOTES, SYMBOLS & ABBREVIATIONS
66	CC-M101	CCWPCP STAND PIPE AND RECEIVING TANK PLAN AND SECTIONS
67	CC-M102	CCEPS EFFLUENT SCREENING & DISINFECTION FACILITY DEMOLITION PLAN AT EL -5.00
68	CC-M103	CCEPS EFFLUENT SCREENING & DISINFECTION FACILITY DEMOLITION PLAN AT EL 13.50
69	CC-M104	CCEPS EFFLUENT SCREENING & DISINFECTION FACILITY PLAN AT EL -5.00
70	CC-M105	CCEPS EFFLUENT SCREENING & DISINFECTION FACILITY PLAN AT EL 13.50
71	CC-M301	CCEPS EFFLUENT SCREENING & DISINFECTION FACILITY DEMOLITION SECTION 1
72	CC-M302	CCEPS EFFLUENT SCREENING & DISINFECTION FACILITY DEMOLITION SECTION 2
73	CC-M303	CCEPS EFFLUENT SCREENING & DISINFECTION FACILITY SECTION 3
74	CC-M304	CCEPS EFFLUENT SCREENING & DISINFECTION FACILITY SECTION 4
75	CC-E001	CCEPS GENERAL NOTES, SYMBOLS & ABBREVIATIONS
76	CC-E101	CCEPS FIRST FLOOR DEMOLITION PLAN
77	CC-E102	CCEPS FIRST FLOOR DEMOLITION PLAN
78	CC-E103	CCEPS FIRST FLOOR POWER & CONTROL PLAN
79	CC-E104	CCEPS FIRST FLOOR POWER & CONTROL PLAN
80	CC-E601	CCEPS 4.16 Kv DEMOLITION ONE-LINE DIAGRAM
81	CC-E602	CCEPS ONE-LINE DIAGRAMS
82	CC-E603	CCEPS MOTOR CONTROL WIRING DIAGRAMS
83	CC-E604	CCEPS MOTOR CONTROL WIRING DIAGRAM
84	CC-E605	CCEPS MOTOR CONTROL WIRING DIAGRAMS
85	CC-I601	CCEPS EXISTING EFFLUENT PUMPING STATION UPGRADE P&ID

**FORCE MAIN - MICROTUNNELS**

SHEET NO.	DWG NO.	TITLE
86	BP-C110	WORK ZONE SHAFT 1 & 2 TRAFFIC CONTROL AND EXISTING UTILITIES
87	BP-C111	WORK ZONE SHAFT 3 & 4 TRAFFIC CONTROL AND EXISTING UTILITIES
88	BP-C112	WORK ZONE SHAFT 5 & 6 TRAFFIC CONTROL AND EXISTING UTILITIES
89	BP-C113	WORK ZONE SHAFT 7 & 8 TRAFFIC CONTROL AND EXISTING UTILITIES
90	BP-C114	WORK ZONE SHAFT 9 TRAFFIC CONTROL AND EXISTING UTILITIES
91	CC-C107	WORK ZONE SHAFT 1 & 2 TRAFFIC CONTROL AND EXISTING UTILITIES
92	CC-C108	WORK ZONE SHAFT 3 & 4 TRAFFIC CONTROL AND EXISTING UTILITIES
93	CC-C109	WORK ZONE SHAFT 5 TRAFFIC CONTROL AND EXISTING UTILITIES
94	CC-C110	WORK ZONE SHAFT 6 TRAFFIC CONTROL AND EXISTING UTILITIES
95	CC-C111	WORK ZONE TRAFFIC CONTROL NORTHBOUND LAKEVIEW ROAD
96	CC-C112	WORK ZONE TRAFFIC CONTROL SOUTHBOUND LAKEVIEW ROAD
97	BP-C201	ALIGNMENT PLAN AND PROFILE
98	BP-C202	ALIGNMENT PLAN AND PROFILE 1
99	BP-C203	ALIGNMENT PLAN AND PROFILE 2
100	BP-C204	ALIGNMENT PLAN AND PROFILE 3
101	BP-C205	ALIGNMENT PLAN AND PROFILE 4
102	BP-C206	BAY PARK ALIGNMENT GEOMETRY TABLE
103	CC-C201	ALIGNMENT PLAN AND PROFILE
104	CC-C202	ALIGNMENT PLAN AND PROFILE 1
105	CC-C203	ALIGNMENT PLAN AND PROFILE 2
106	CC-C204	ALIGNMENT PLAN AND PROFILE 3
107	CC-C205	ALIGNMENT PLAN AND PROFILE 4
108	CC-C206	CEDAR CREEK ALIGNMENT GEOMETRY TABLE
109	BP-B101	BAY PARK FORCE MAIN BORING LOCATION PLAN SHEET 1 OF 5
110	BP-B102	BAY PARK FORCE MAIN BORING LOCATION PLAN SHEET 2 OF 5
111	BP-B103	BAY PARK FORCE MAIN BORING LOCATION PLAN SHEET 3 OF 5
112	BP-B104	BAY PARK FORCE MAIN BORING LOCATION PLAN SHEET 4 OF 5
113	BP-B105	BAY PARK FORCE MAIN BORING LOCATION PLAN SHEET 5 OF 5
114	CC-B101	CEDAR CREEK FORCE MAIN BORING LOCATION PLAN SHEET 1 OF 4
115	CC-B102	CEDAR CREEK FORCE MAIN BORING LOCATION PLAN SHEET 2 OF 4
116	CC-B103	CEDAR CREEK FORCE MAIN BORING LOCATION PLAN SHEET 3 OF 4
117	CC-B104	CEDAR CREEK FORCE MAIN BORING LOCATION PLAN SHEET 4 OF 4

**FORCE MAIN - MICROTUNNELS (CONT'D)**

SHEET NO.	DWG NO.	TITLE
118	GT-I001	GEOTECHNICAL INSTRUMENTATION GENERAL NOTES AND LEGEND
119	GT-I501	GEOTECHNICAL INSTRUMENTATION TYPICAL INSTRUMENTATION DETAILS
120	GT-I502	GEOTECHNICAL INSTRUMENTATION TYPICAL INSTRUMENTATION DETAILS
121	GT-I503	GEOTECHNICAL INSTRUMENTATION TYPICAL INSTRUMENTATION DETAILS
122	BP-I101	BAY PARK FORCE MAIN GEOTECHNICAL INSTRUMENTATION PLAN SHEET 1 OF 8
123	BP-I102	BAY PARK FORCE MAIN GEOTECHNICAL INSTRUMENTATION PLAN SHEET 2 OF 8
124	BP-I103	BAY PARK FORCE MAIN GEOTECHNICAL INSTRUMENTATION PLAN SHEET 3 OF 8
125	BP-I104	BAY PARK FORCE MAIN GEOTECHNICAL INSTRUMENTATION PLAN SHEET 4 OF 8
126	BP-I105	BAY PARK FORCE MAIN GEOTECHNICAL INSTRUMENTATION PLAN SHEET 5 OF 8
127	BP-I106	BAY PARK FORCE MAIN GEOTECHNICAL INSTRUMENTATION PLAN SHEET 6 OF 8
128	BP-I107	BAY PARK FORCE MAIN GEOTECHNICAL INSTRUMENTATION PLAN SHEET 7 OF 8
129	BP-I108	BAY PARK FORCE MAIN GEOTECHNICAL INSTRUMENTATION PLAN SHEET 8 OF 8
130	CC-I101	CEDAR CREEK FORCE MAIN GEOTECHNICAL INSTRUMENTATION PLAN SHEET 1 OF 7
131	CC-I102	CEDAR CREEK FORCE MAIN GEOTECHNICAL INSTRUMENTATION PLAN SHEET 2 OF 7
132	CC-I103	CEDAR CREEK FORCE MAIN GEOTECHNICAL INSTRUMENTATION PLAN SHEET 3 OF 7
133	CC-I104	CEDAR CREEK FORCE MAIN GEOTECHNICAL INSTRUMENTATION PLAN SHEET 4 OF 7
134	CC-I105	CEDAR CREEK FORCE MAIN GEOTECHNICAL INSTRUMENTATION PLAN SHEET 5 OF 7
135	CC-I106	CEDAR CREEK FORCE MAIN GEOTECHNICAL INSTRUMENTATION PLAN SHEET 6 OF 7
136	CC-I107	CEDAR CREEK FORCE MAIN GEOTECHNICAL INSTRUMENTATION PLAN SHEET 7 OF 7
137	BP-S503	BP&CC GENERAL SHAFT SUPPORT OF EXCAVATION
138	BP-S505	BP&CC ACCESS MANHOLE PLAN AND SECTION
139	BP-S506	BP&CC SHAFT ACCESS MANHOLE REMOVABLE PRECAST CONCRETE COVER
140	BP-S507	MICROTUNNEL LINING AND SHAFT / TUNNELING INTERFACE
141	BP-S301	BAY PARK FORCE MAIN BAY PARK SHAFT 1 SECTIONS
142	BP-S102	BAY PARK FORCE MAIN BAY PARK SHAFT 9 CONNECTION TO SUNRISE 72" MAIN-PLAN
143	BP-S302	BAY PARK FORCE MAIN BAY PARK SHAFT 9 CONNECTION TO SUNRISE 72" MAIN-SECTIONS
144	CC-S102	CEDAR CREEK SHAFT 6 CONNECTION TO SUNRISE 72" MAIN PLAN
145	CC-S301	CEDAR CREEK SHAFT 6 CONNECTION TO SUNRISE 72" MAIN SECTION
146	CC-S501	CEDAR CREEK FORCE MAIN CEDAR CREEK SHAFT 1
147	CC-S502	CEDAR CREEK FORCE MAIN CEDAR CREEK SHAFT 2

**SUNRISE HIGHWAY**

SHEET NO.	DWG NO.	TITLE
148	SH-C101	SUNRISE HIGHWAY WORK ZONE STA 661+61 TRAFFIC CONTROL
149	SH-C102	SUNRISE HIGHWAY WORK ZONE STA 675+93 TRAFFIC CONTROL
150	SH-C103	SUNRISE HIGHWAY WORK ZONE STA 687+81 TRAFFIC CONTROL
151	SH-C104	SUNRISE HIGHWAY WORK ZONE STA 700+00 TRAFFIC CONTROL
152	SH-C105	SUNRISE HIGHWAY WORK ZONE STA 722+75 TRAFFIC CONTROL
153	SH-C106A	SUNRISE HIGHWAY WORK ZONE STA 751+02 TRAFFIC CONTROL NIGHTTIME WORKING
154	SH-C106B	SUNRISE HIGHWAY WORK ZONE STA 751+02 TRAFFIC CONTROL DAYTIME WORKING
155	SH-C107	SUNRISE HIGHWAY WORK ZONE STA 779+94.9 TRAFFIC CONTROL
156	SH-C108	SUNRISE HIGHWAY WORK ZONE STA 802+05 TRAFFIC CONTROL
157	SH-C109	SUNRISE HIGHWAY WORK ZONE STA 815+18 TRAFFIC CONTROL
158	SH-C110	SUNRISE HIGHWAY WORK ZONE STA 827+00 TRAFFIC CONTROL
159	SH-C111	SUNRISE HIGHWAY WORK ZONE STA 838+05 TRAFFIC CONTROL
160	SH-C112	SUNRISE HIGHWAY WORK ZONE STA 848+82 TRAFFIC CONTROL
161	SH-C113	SUNRISE HIGHWAY WORK ZONE STA 858+71 TRAFFIC CONTROL
162	SH-C114	SUNRISE HIGHWAY WORK ZONE STA 885+80 TRAFFIC CONTROL
163	SH-C115	SUNRISE HIGHWAY WORK ZONE STA 838+05 TRAFFIC CONTROL
164	SH-C116	SUNRISE HIGHWAY WORK ZONE STA 892+50 TRAFFIC CONTROL
165	SH-C117	SUNRISE HIGHWAY WORK ZONE STA 918+82 TRAFFIC CONTROL
166	SH-C118	SUNRISE HIGHWAY WORK ZONE STA 938+00 TRAFFIC CONTROL
167	SH-C119	SUNRISE HIGHWAY WORK ZONE STA 954+96 TRAFFIC CONTROL (NOT USED)
168	SH-C121	SUNRISE HIGHWAY WORK ZONE STA 984+91 TRAFFIC CONTROL
169	SH-C122	SUNRISE HIGHWAY WORK ZONE STA 1019+86 TRAFFIC CONTROL
170	SH-C123	SUNRISE HIGHWAY WORK ZONE STA 1039+25 TRAFFIC CONTROL
171	SH-C124	SUNRISE HIGHWAY WORK ZONE STA 1040+37 TRAFFIC CONTROL
172	SH-C201	SUNRISE HIGHWAY PLAN AND PROFILE 1
173	SH-C202	SUNRISE HIGHWAY PLAN AND PROFILE 2
174	SH-C203	SUNRISE HIGHWAY PLAN AND PROFILE 3
175	SH-C204	SUNRISE HIGHWAY PLAN AND PROFILE 4
176	SH-C205	SUNRISE HIGHWAY PLAN AND PROFILE 5
177	SH-C206	SUNRISE HIGHWAY PLAN AND PROFILE 6
178	SH-C207	SUNRISE HIGHWAY PLAN AND PROFILE 7
179	SH-C208	SUNRISE HIGHWAY PLAN AND PROFILE 8
180	SH-C209	SUNRISE HIGHWAY PLAN AND PROFILE 9
181	SH-C210	SUNRISE HIGHWAY PLAN AND PROFILE 10
182	SH-C211	SUNRISE HIGHWAY PLAN AND PROFILE 11
183	SH-C212	SUNRISE HIGHWAY PLAN AND PROFILE 12
184	SH-C213	SUNRISE HIGHWAY PLAN AND PROFILE 13
185	SH-C214	SUNRISE HIGHWAY PLAN AND PROFILE 14
186	SH-C215	SUNRISE HIGHWAY PLAN AND PROFILE 15
187	SH-C401	SLIPLINE WORKPIT PRELIMINARY LOCATION PLAN 1
188	SH-C402	SLIPLINE WORKPIT PRELIMINARY LOCATION PLAN 2
189	SH-C403	SLIPLINE WORKPIT PRELIMINARY LOCATION PLAN 3
190	SH-C404	SLIPLINE WORKPIT PRELIMINARY LOCATION PLAN 4
191	SH-C501	EXISTING 48" GATE VALVE CHAMBER
192	SH-C502	SLIPLINE WORKPIT PRELIMINARY DESIGN
193	SH-C503	COMBINATION AIR RELIEF/VACUUM CHAMBER
194	SH-C504	ANCILLARY STRUCTURES



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

FINAL DESIGN CRITERIA PACKAGE			
DATE:	PROJECT NO.:	FILE NAME:	DESIGNED BY:
APRIL 2020	PW-S3B116-03CR	BAYPARK_DRAWING_LIST	J. MORALES
DRAWN BY:	CHECKED BY:		J. MORALES
			D. SMITH

NASSAU COUNTY, NEW YORK  
**DEPARTMENT OF PUBLIC WORKS**

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE
DRAWING LIST

SCALE:

User: MORALESJ, Spec: AUB, NCSMCD, File: C:\BAYPARK\_DRAWING\_LIST\DWG\_Scale: 1:1, Sheet: 11 of 11, Date: 4/17/2020, Time: 15:16, Plot Date: MORALES, Job: 4172020, 16:11, Layout: LAYOUT1









**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE: APRIL 2020

PROJECT NO.: PW-S3B116-03CR

FILE NAME: G-GEN-002

DESIGNED BY: J. MORALES

DRAWN BY: J. MORALES

CHECKED BY: D. SMITH

NASSAU COUNTY, NEW YORK  
**DEPARTMENT OF PUBLIC  
WORKS**

**OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT**

SHEET TITLE

**GENERAL NOTES AND  
ABBREVIATIONS**

SCALE: NOT TO SCALE

**G-002**  
**PAGE 4**

**GENERAL NOTES /MANDATORY REQUIREMENTS**

- ALL ELEVATIONS ARE IN FEET AND IN VERTICAL DATUM NAVD 88.
- HORIZONTAL DATUM: NEW YORK LONG ISLAND STATE PLANE NAD 83/91.
- NO GUARANTEE IS MADE THAT THE INFORMATION CONTAINED HEREIN IS AN ACCURATE REPRESENTATION OF THE FIELD CONDITIONS TO BE ENCOUNTERED BY THE DESIGN-BUILDER. ALL INFORMATION SHALL BE FIELD VERIFIED BY THE DESIGN-BUILDER.
- THE DISTINCTION BETWEEN PROPOSED AND EXISTING MATERIALS, EQUIPMENT AND STRUCTURES HAS BEEN MADE ON THE DRAWINGS BY LINE WEIGHT AND STYLE. HEAVY AND/OR SOLID LINE WORK REPRESENTS NEW WORK TO BE PROVIDED UNDER THIS CONTRACT. LIGHT LINE WORK REPRESENTS EXISTING OBJECTS. NOTATIONS ARE PROVIDED IN SOME AREAS FOR CLARITY.
- SHEETS ARE BASED ON THE TOPOGRAPHIC AND BOUNDARY SURVEYS CONDUCTED BY GAYRON DE BRUIN LAND SURVEYING AND ENGINEERING, P.C. AND AVAILABLE RECORDS OBTAINED FROM NASSAU COUNTY.
- ALL UNDERGROUND UTILITY LOCATIONS SHOULD BE CONSIDERED APPROXIMATE AND SHOWN FOR DESIGN PURPOSES ONLY. FIELD VERIFICATION OF ALL UTILITIES MUST BE CONDUCTED BY THE DESIGN-BUILDER PRIOR TO ANY EXCAVATION OR CONSTRUCTION.
- THE SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND MAY NOT REFLECT EASEMENTS, PROPERTY LINES AND OTHER RESTRICTIONS OF RECORD.
- THE DESIGN-BUILDER IS REQUIRED TO MAKE AN ON SITE INSPECTION OF EACH OF THE VARIOUS STRUCTURES AND RELATED CONDITIONS PRIOR TO PRICING THIS CONTRACT.
- SEE GBR/GDR PROVIDING BORING LOGS, GEOLOGIC PLANS AND PROFILES.
- THE SUPPORT OF EXCAVATION FOR NEAR SURFACE STRUCTURES MAY NOT BE SHOWN ON THE DRAWINGS. THE DESIGN-BUILDER IS RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE SUPPORT OF EXCAVATION ASSOCIATED WITH THE NEAR SURFACE STRUCTURES.
- ALL BOLTED FLANGE JOINTS SHALL REMAIN ACCESSIBLE.
- THIS SET OF DESIGN CRITERIA DRAWINGS PRESENTS PRELIMINARY DESIGNS. DESIGNS ARE INDICATIVE EXCEPT WHERE THEY ARE STATED TO BE MANDATORY. REFER TO SPECIFICATIONS FOR ADDITIONAL DEFINITIONS AND REQUIREMENTS.

@ & ABAND APPROX	AT AND ABANDONED APPROXIMATE OR APPROXIMATELY
BC BL BLDG BM BOT BSMT	BOTTOM OF CURB BASELINE BUILDING BENCHMARK BOTTOM BASEMENT
CB € CIP CLF CMU CONC CONN CONT COORD CSA	CATCH BASIN CENTERLINE CAST-IN-PLACE CHAIN LINK FENCE CONCRETE MASONRY UNIT CONCRETE CONNECTION CONTINUOUS COORDINATE CONSTRUCTION STAGING AREA
D DATR DEMO DB DIA DWG	DEPTH DATA ACCORDING TO RECORDS DEMOLISH/ DEMOLITION DUCT BANK DIAMETER DRAWING(S)
E EA EHH ELEC EL/ELEV EMH EQUIP ESC EW EX EXP EXP JT	EAST EACH ELECTRIC HAND HOLE ELECTRIC ELEVATION ELECTRIC MANHOLE EQUIPMENT EROSION AND SEDIMENT CONTROL EACH WAY EXISTING EXPANSION EXPANSION JOINT
FH FM FPS FT	FIRE HYDRANT FORCE MAIN FEET PER SECOND FEET

**ABBREVIATIONS**

GAL GBR GDR GPM	GALLON GEOTECHNICAL BASELINE REPORT GEOTECHNICAL DATA REPORT GALLONS PER MINUTE
H HDPE HORZ HP HWL	HORIZONTAL HIGH DENSITY POLYETHYLENE HORIZONTAL HIGH POINT HIGH WATER LEVEL
ID IN INV	INSIDE DIAMETER INCHES INVERT
JB JT	JUNCTION BOX JOINT
L LB LBS LF LOD LP LTCP	LENGTH POUND POUNDS LINEAR FOOT/FEET LIMIT OF DISTURBANCE LOW PRESSURE LONG TERM CONTROL PLAN
MAX MFR MGD MH MIN MISC	MAXIMUM MANUFACTURER MILLION GALLONS PER DAY MANHOLE MINIMUM MISCELLANEOUS
N N/A NE NEC NFPA NIC NO. NTP NTS NW	NORTH NOT APPLICABLE NORTHEAST NATIONAL ELECTRICAL CODE NATIONAL FIRE PROTECTION ASSOCIATION NOT IN CONTRACT NUMBER NOTICE TO PROCEED NOT TO SCALE NORTHWEST
O.C. OE OH OPNG	ON CENTER OVERHEAD ELECTRIC OVERHEAD OPENING

PE PL PROP PS PT	PROFESSIONAL ENGINEER PLACE PROPOSED PUMPING STATION POINT
R RCP REQD ROW	RADIUS REINFOCED CONCRETE PIPE REQUIRED RIGHT OF WAY
S SAN SE SD SF SL SLMH SMH SOE SS ST STM STMH STA STR SW	SLOPE SANITARY SEWER SOUTHEAST STORM DRAIN SQUARE FOOT/FEET STREET LIGHT STREET LIGHT MANHOLE SANITARY SEWER MANHOLE SUPPORT OF EXCAVATION STAINLESS STEEL STREET STORM SEWER STORM SEWER MANHOLE STATION STRUCTURE SOUTHWEST
TC TEL TEMP TMH T.O. TOC TYP	TOP OF CURB TELEPHONE TEMPORARY TELEPHONE MANHOLE TOP OF TOP OF CONCRETE TYPICAL
UE	UNDERGROUND ELECTRIC
VERT	VERTICAL
W/ W/O W WMH	WITH WITHOUT WATER WATER MANHOLE

User: SHERV Spec-AUS-NCS-MOD File: C:\BIS\SWSP-PB-US-PN-02\WSP... Vector: SHERV\04\086101\G-GEN-002.DWG Scale: 1:1 Saved: 04/22/2020 Time: 2:12:23 Pkl Date: SHERV Vector: 3/27/2020 12:06 Layout: LAYOUT1

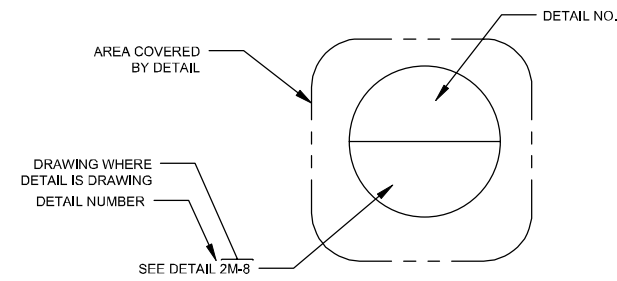


**MATCHLINE SYSTEM**

**IDENTIFYING LETTERS FOR DISCIPLINE**

- A ARCHITECTURAL
- B GEOTECHNICAL
- C CIVIL
- D DEMOLITION
- E ELECTRICAL
- G GENERAL
- I INSTRUMENTATION
- L LANDSCAPING
- M MECHANICAL
- S STRUCTURAL
- U UTILITY RELOCATION

**DRAWING NUMBER SYSTEM**



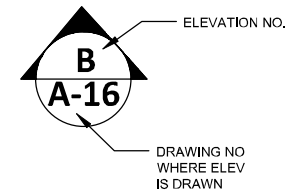
**DETAIL**  
(TITLE)

SCALE: X'X" = 1'-0"

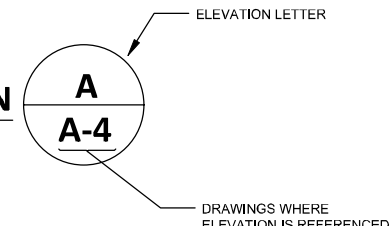
**ON PLANS AND SECTIONS**

**DETAIL TITLE**

**DETAIL IDENTIFICATION SYSTEM**



**SECTION / ELEVATION**



**ON PLANS**

**SECTION / ELEVATION TITLE**

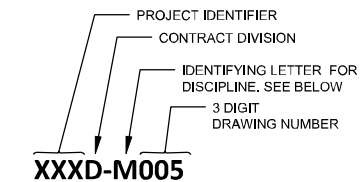
**SECTION / ELEVATION IDENTIFICATION SYSTEM**

**LEGEND**

DESCRIPTION	SYMBOL
EXISTING	—
PROPOSED	—
CONSTRUCTION STAGING AREA	█
SOIL BORING	⊕ ⊕
DEMOLISH/REMOVE	///
ASPHALTIC CONCRETE PAVEMENT SECTION	▨
CONCRETE PAVEMENT SECTION	▩
SOIL SECTION	▧
TRAFFIC FLOW	→
HORIZONTAL TO VERTICAL	2:1

DESCRIPTION	SYMBOL
LIGHT POLE	⊙
CONTOURS	16
SIGN	⊕
SPOT ELEVATION	X 15.3
BENCHMARK	⚓
TRAVERSE POINT	△ TRV
MONUMENTS	▲
MANHOLE	○
ELECTRICAL MANHOLE	⊕ OR ⊖
COMMUNICATIONS MANHOLE	⊕ OR ⊖
WATER MANHOLE	⊕
STORM SEWER MANHOLE	⊕
SANITARY SEWER MANHOLE	⊕
CATCH BASIN	□ CB
UTILITY POLE	⊕
CURB & GUTTER	—
FIRE DEPT. CONNECTION	⊕ FH
FIRE HYDRANT	⊕ YH
YARD HYDRANT	⊕ YH
PARKING METER	⊕ M

DESCRIPTION	SYMBOL
CAST IRON FENCE	—
CHAIN LINK FENCE	—
DECORATIVE LANDSCAPE FENCE	—
SECURITY FENCE	—
GUARDRAIL	—
RAILROAD TRACKS	—
FUEL LINE	— FUEL
COMMUNICATIONS LINE	— COMM
LIMITS OF DISTURBANCE	— LOD
RIGHT OF WAY	— ROW
OVERHEAD ELECTRIC	— OE
OVERHEAD FIBER OPTIC	— OF
OVERHEAD TELEPHONE	— OT
OVERHEAD TV (CABLE)	— OTV
UNDERGROUND ELECTRIC	— UE
UNDERGROUND FIBER OPTIC	— UF
UNDERGROUND TELEPHONE	— UT
UNDERGROUND TV (CABLE)	— UTV
SANITARY SEWER	— SAN
STORM SEWER	— STM
WATER LINE	— W
UNKNOWN UTILITY	— UNK
PROPERTY LINE	—
LOT LINE (CONDEMNED)	—
EASEMENT LINE	—



**CADD FILE NAME**



**NORTH ARROW**

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

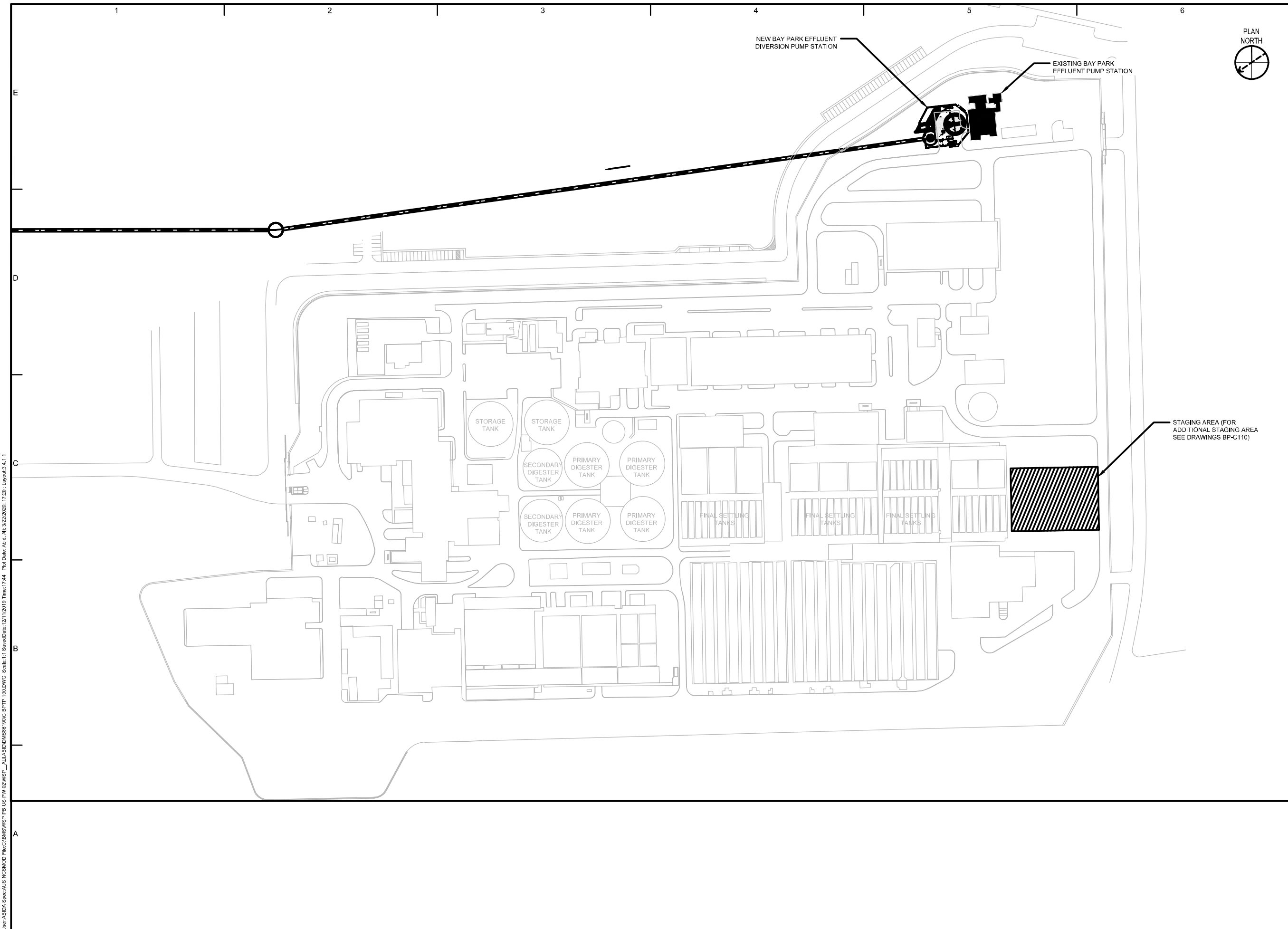
NO.	DATE	ISSUED FOR	BY

FINAL DESIGN CRITERIA PACKAGE			
DATE:	PROJECT NO.:	FILE NAME:	DESIGNED BY:
APRIL 2020	PW-S3B116-03CR	G-GEN-003	J. MORALES
DRAWN BY:	CHECKED BY:		
J. MORALES	D. SMITH		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS  
OCEAN OUTFALL EFFLUENT DIVERSION PROJECT

SHEET TITLE  
CONTRACT DRAWING USER GUIDE AND LEGEND

SCALE: N.T.S.  
G-003  
PAGE 5



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

FINAL DESIGN CRITERIA PACKAGE			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	C-BPTP-100		
DESIGNED BY:	J. ALTINYUREK		
DRAWN BY:	J. ALTINYUREK		
CHECKED BY:	D. SMITH		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

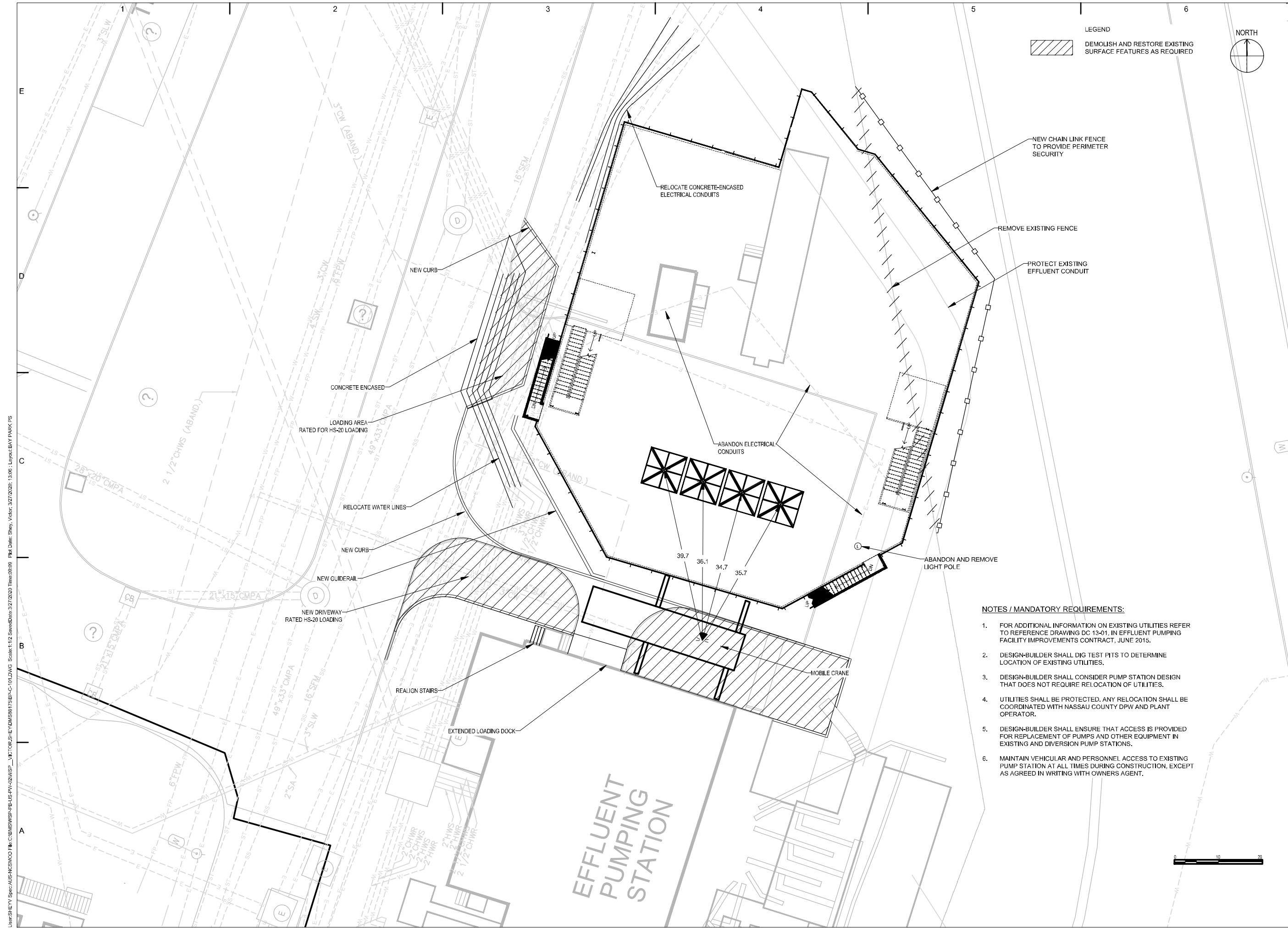
BAY PARK  
FACILITY LOCATION PLAN


SCALE: NTS

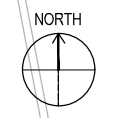
BP-C100

User: \\BDA-Spec\US-NC\BMOD\_Plan\01\BPTP\100\DWG\_Sch\11\2019\Time:17:44 Plot Date: 04/14/2020 17:20 Layout: 3, 4, 1-1





LEGEND  
 DEMOLISH AND RESTORE EXISTING SURFACE FEATURES AS REQUIRED



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
 DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	BP-C-101		
DESIGNED BY:	M. BROWN		
DRAWN BY:	B. VAN BEEK		
CHECKED BY:	M. BROWN		

NASSAU COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC  
 WORKS  
 OCEAN OUTFALL  
 EFFLUENT DIVERSION  
 PROJECT

SHEET TITLE  
 BAY PARK FORCE MAIN  
 EFFLUENT DIVERSION  
 PUMP STATION  
 CIVIL WORK

SCALE: 1"=10'

BP-C101  
 PAGE 7

- NOTES / MANDATORY REQUIREMENTS:**
- FOR ADDITIONAL INFORMATION ON EXISTING UTILITIES REFER TO REFERENCE DRAWING DC 13-01, IN EFFLUENT PUMPING FACILITY IMPROVEMENTS CONTRACT, JUNE 2015.
  - DESIGN-BUILDER SHALL DIG TEST PITS TO DETERMINE LOCATION OF EXISTING UTILITIES.
  - DESIGN-BUILDER SHALL CONSIDER PUMP STATION DESIGN THAT DOES NOT REQUIRE RELOCATION OF UTILITIES.
  - UTILITIES SHALL BE PROTECTED. ANY RELOCATION SHALL BE COORDINATED WITH NASSAU COUNTY DPW AND PLANT OPERATOR.
  - DESIGN-BUILDER SHALL ENSURE THAT ACCESS IS PROVIDED FOR REPLACEMENT OF PUMPS AND OTHER EQUIPMENT IN EXISTING AND DIVERSION PUMP STATIONS.
  - MAINTAIN VEHICULAR AND PERSONNEL ACCESS TO EXISTING PUMP STATION AT ALL TIMES DURING CONSTRUCTION, EXCEPT AS AGREED IN WRITING WITH OWNERS AGENT.

User: SNEY Spec: AUSA-NCSM00 File: C:\BMSMSP-PB-US-PW-CR101\WSP\_VICOR-SI-ET\DATA\BSP175\BP-C-101.DWG Scale: 1/12 Scale: 1/12 Date: 3/27/2020 Time: 09:06 Pk Date: Sney, Victor: 3/27/2020, 15:06 Layout: BAY PARK PS

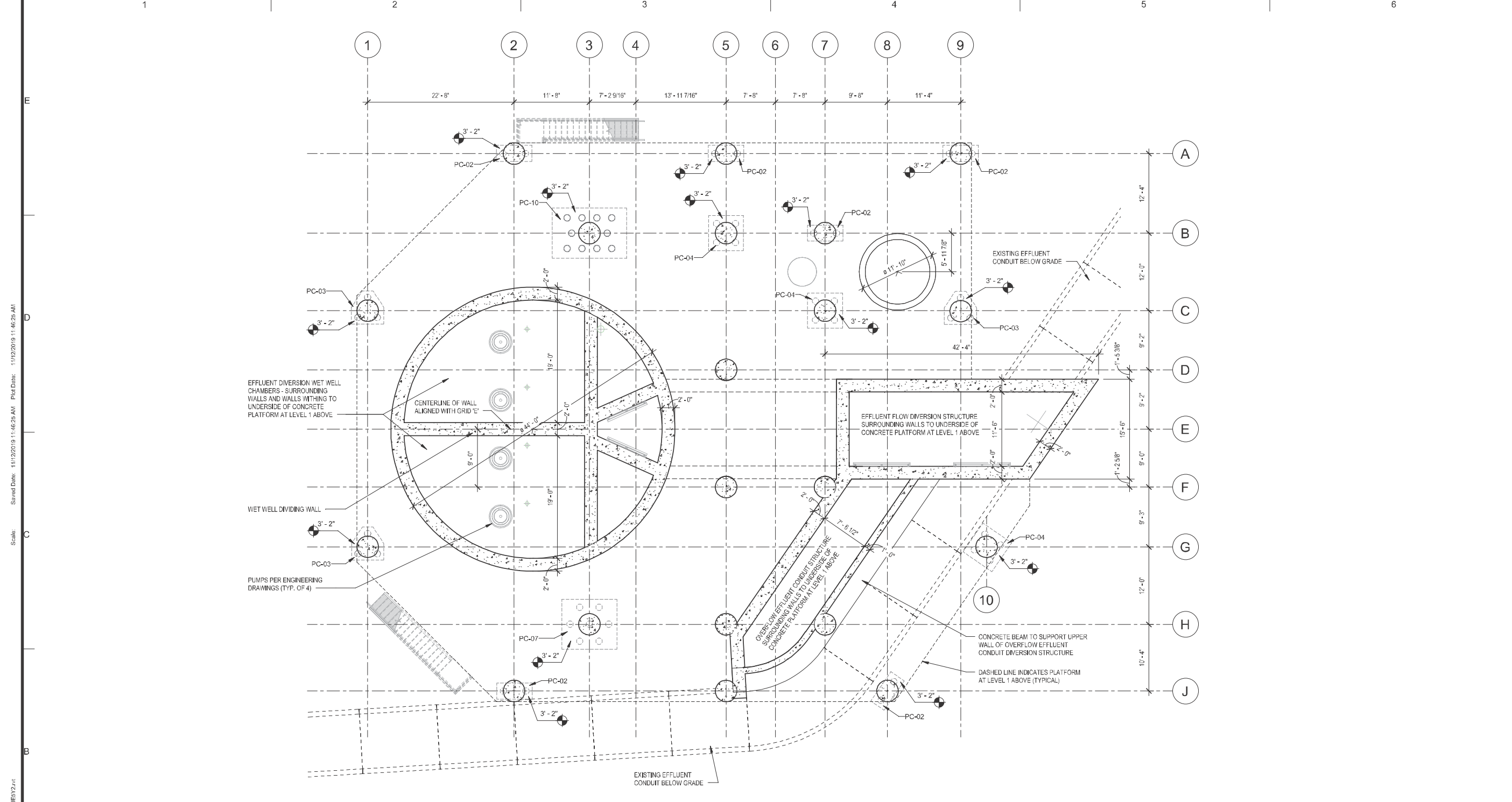






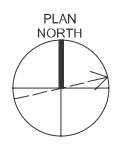
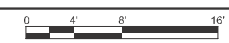






1  
BP-S112  
1/8" = 1'-0"

### STRUCTURAL PLAN - AT GRADE FOUNDATIONS



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED BY THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE: OCTOBER 2019  
PROJECT NO.: PW-S3B116-03CR  
FILE NAME: BP-S112  
DESIGNED BY: T. EFFA  
DRAWN BY: M. BRAY  
CHECKED BY: J. CIURZYNSKI

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

BAY PARK  
EFFLUENT DIVERSION  
PUMP STATION

STRUCTURAL  
FLOOR PLAN - AT GRADE

SCALE: AS NOTED

BP-S112  
PAGE 12

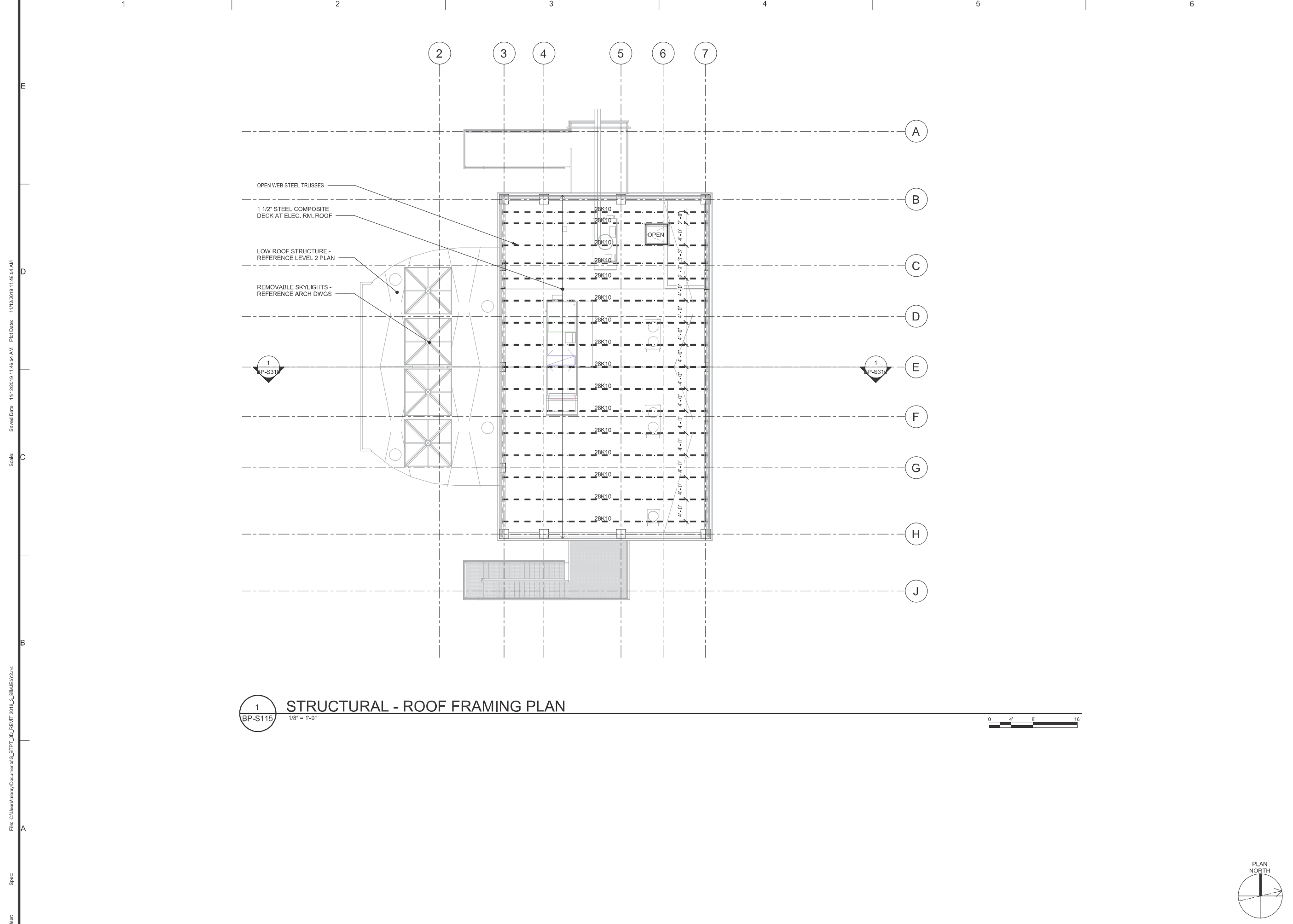
User: Spec: File: C:\Users\mbray\Documents\BP\_S112\_03\_REV.DWG 10/2019 11:46:25 AM Plot Date: 11/02/2019 11:46:25 AM Scale: Saved Date: 11/02/2019 11:46:25 AM



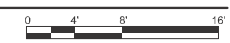








1  
BP-S115  
**STRUCTURAL - ROOF FRAMING PLAN**  
1/8" = 1'-0"



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED BY THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE: OCTOBER 2019  
 PROJECT NO.: PW-S3B116-03CR  
 FILE NAME: BP-S115  
 DESIGNED BY: T. EFFA  
 DRAWN BY: M. BRAY  
 CHECKED BY: J. CIURZYNSKI

NASSAU COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC  
 WORKS

OCEAN OUTFALL  
 EFFLUENT DIVERSION  
 PROJECT

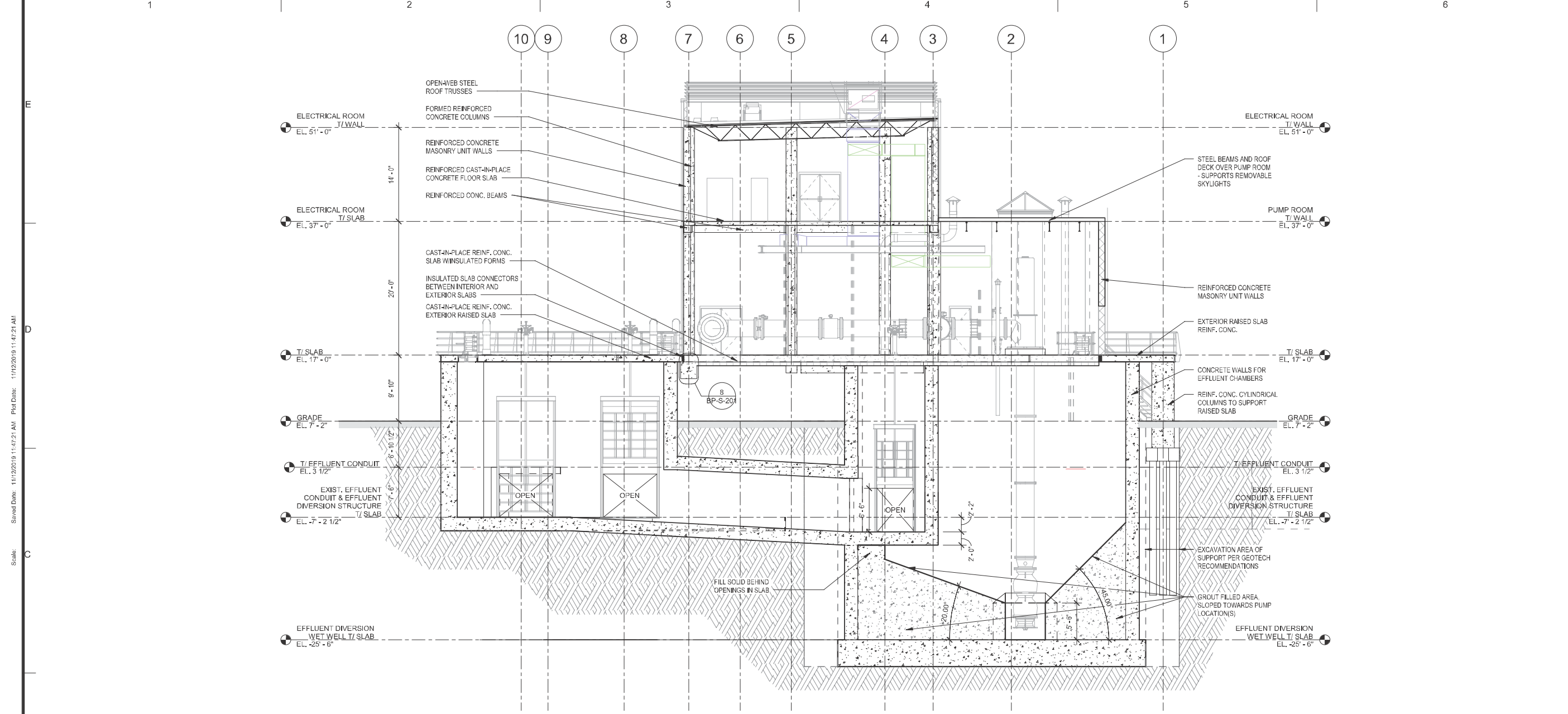
SHEET TITLE

BAY PARK  
 EFFLUENT DIVERSION  
 PUMP STATION  
 STRUCTURAL  
 ROOF FRAMING PLAN

SCALE: AS NOTED

BP-S115  
 PAGE 15

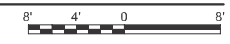
User: Spec: File: C:\Users\mbray\Documents\BP\_S115\_R0\_REV01\_2019\_31M.MESV2.dwg  
 Scale: 1/8" = 1'-0" Saved Date: 11/12/2019 11:46:54 AM Plot Date: 11/12/2019 11:46:54 AM



1  
BP-S310

## STRUCTURAL BUILDING SECTION

1/8" = 1'-0"



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED BY THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE: OCTOBER 2019

PROJECT NO.: PW-S3B116-03CR

FILE NAME: BP-S310

DESIGNED BY: T. EFFA

DRAWN BY: M. BRAY

CHECKED BY: J. CIURZYNSKI

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

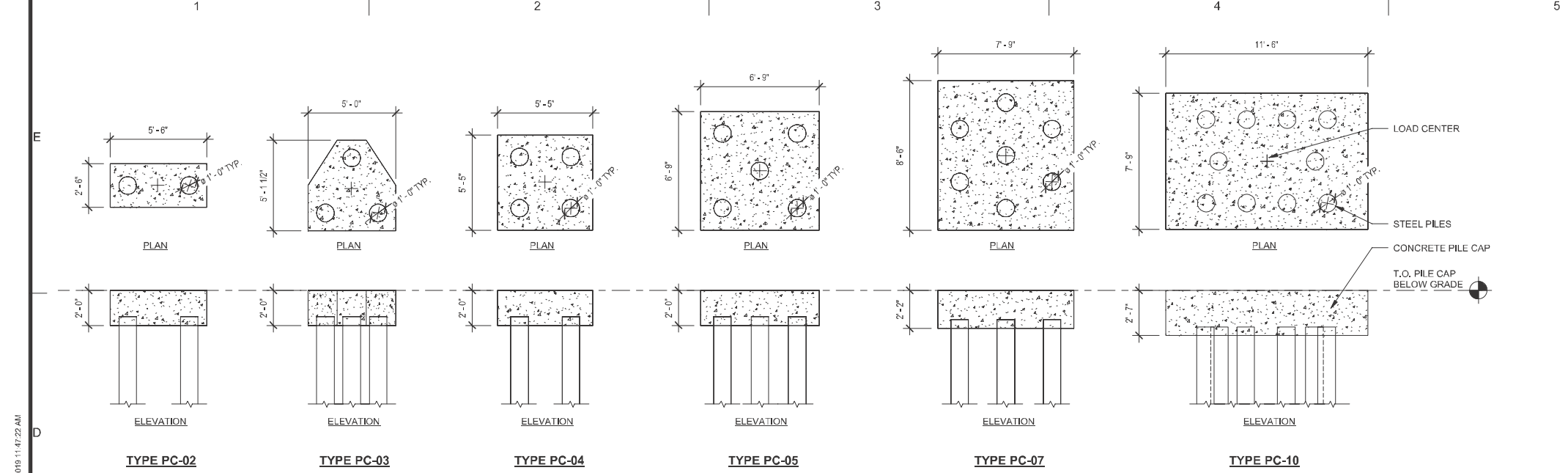
SHEET TITLE

BAY PARK  
EFFLUENT DIVERSION  
PUMP STATION  
STRUCTURAL  
BUILDING SECTION

SCALE: AS NOTED

BP-S310  
PAGE 16

User: Spec: File: C:\Users\mbray\Documents\BP-S310\REV\11-14-21\11-14-21.dwg Plot Date: 11/12/2019 11:47:21 AM Saved Date: 11/12/2019 11:47:21 AM Plot Date: 11/12/2019 11:47:21 AM Scale: 1/8" = 1'-0"



### PILE AND CAP SCHEDULE

COLUMN	NUMBER OF PILES	PILE CAP DETAIL	T.O. CAP DEPTH (BELOW GRADE)	PILE DEPTH (BELOW GRADE)
1C	3	PC-03	-4'-0"	-30'-0"
1G	3	PC-03	-4'-0"	-30'-0"
2A	2	PC-02	-4'-0"	-30'-0"
2J	2	PC-02	-4'-0"	-30'-0"
3B	10	PC-10	-4'-0"	-30'-0"
3H	7	PC-07	-4'-0"	-30'-0"
5A	2	PC-02	-4'-0"	-30'-0"
5B	4	PC-04	-4'-0"	-30'-0"
5D	4	PC-04	-22'-0"	-30'-0"
5F	4	PC-04	-22'-0"	-30'-0"
5H	5	PC-05	-22'-0"	-30'-0"
5J	2	PC-02	-22'-0"	-30'-0"
7B	2	PC-02	-4'-0"	-30'-0"
7C	4	PC-04	-4'-0"	-30'-0"
7F	5	PC-05	-22'-0"	-30'-0"
7H	4	PC-04	-22'-0"	-30'-0"
8J	2	PC-02	-4'-0"	-30'-0"
9A	2	PC-02	-4'-0"	-30'-0"
9C	3	PC-03	-4'-0"	-30'-0"
10G	4	PC-04	-4'-0"	-30'-0"

User: Spec: File: C:\Users\mbray\Documents\BP\BP\_C0\_REV.DWG 2019\_03\_20\_10\_30\_30.MESV2.vst  
 Scale: Saved Date: 11/02/2019 11:47:22 AM Plot Date: 11/02/2019 11:47:22 AM



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
 DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED BY THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	OCTOBER 2019		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	BP-S601		
DESIGNED BY:	T. EFFA		
DRAWN BY:	M. BRAY		
CHECKED BY:	J. CIURZYNSKI		

NASSAU COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC WORKS  
  
 OCEAN OUTFALL  
 EFFLUENT DIVERSION  
 PROJECT

SHEET TITLE  
  
 BAY PARK  
 EFFLUENT DIVERSION  
 PUMP STATION  
 SCHEDULES & DIAGRAMS

SCALE: AS NOTED

**BP-S601**  
 PAGE 17

## REFERENCE STANDARDS

**ANSI**  
**AMERICAN NATIONAL STANDARDS INSTITUTE**  
 1819 L STREET, NW, 6TH FLOOR  
 WASHINGTON, DC 20036  
 GENERAL INQUIRIES: 212.642.4900  
 PHONE: 202.293.8020  
 FAX: 202.293.5287  
 HTTP://WWW.ANSI.ORG/

**ASTM**  
**AMERICAN SOCIETY FOR TESTING AND MATERIALS**  
 100 BARR HARBOR DRIVE  
 WEST CONSHOHOCKEN, PA 19428-2959  
 TEL: 810.832.9685  
 FAX: 810.832.9555  
 HTTP://WWW.ASTM.ORG/

**IMI**  
**INTERNATIONAL MASONRY INSTITUTE**  
 17101 SCIENCE DRIVE  
 BOWIE, MD 20715  
 PHONE: (301)291-2124  
 FAX: (301)291-2107  
 HTTP://WWW.IMIWEB.ORG

**GANA**  
**GLASS ASSOCIATION OF NORTH AMERICA**  
 2945 SW WANAMAKER DRIVE, SUITE A  
 TOPEKA, KS 66614  
 TEL: 785.271.0208  
 FAX: 785.271.0166  
 HTTP://WWW.GLASSWEBSITE.COM/GANA/

**BIA**  
**THE BRICK INDUSTRY ASSOCIATION**  
 11490 COMMERCE PARK DRIVE  
 RESTON, VA 28191-1525  
 PHONE: 703.620.0010  
 FAX: 703.620.3928  
 HTTP://WWW.BIA.ORG/

**UL**  
**UNDERWRITERS LABORATORIES**  
 333 PFINGSTEN RD.  
 NORTHBROOK, IL 60062  
 TEL: 847.272.8800  
 FAX: 847.272.8129  
 HTTP://WWW.U.L.COM/

**NPCA**  
**NATIONAL PAINT AND COATINGS ASSOCIATION**  
 1500 RHODE ISLAND AVENUE, NW  
 WASHINGTON, DC 20005  
 TEL: 202.462.6272  
 FAX: 202.462.8549  
 HTTP://WWW.PAINT.ORG/

**BHMA**  
**BUILDERS' HARDWARE MANUFACTURERS ASSOCIATION**  
 355 LEXINGTON AVENUE, 17TH FLOOR  
 NEW YORK, NY 10017  
 TEL: 212.297.2122  
 FAX: 212.370.3047  
 HTTP://BUILDERSHARDWARE.COM

**APA**  
**AMERICAN PLYWOOD ASSOCIATION**  
 PO BOX 11700  
 TACOMA, WA 98411-0700  
 TEL: 253.565.5600  
 FAX: 253.565.7255  
 HTTP://WWW.APAWOOD.ORG/

**AISC**  
**AMERICAN INSTITUTE OF STEEL CONSTRUCTION**  
 ONE EAST WACKER DRIVE, SUITE 3100  
 CHICAGO, IL 60601-2001  
 PHONE: 312.670.5403  
 FAX: 312.670.2400  
 HTTP://WWW.AISC.ORG/

**AGC**  
**ASSOCIATED GENERAL CONTRACTORS OF AMERICA**  
 333 JOHN CARLYLE STREET, SUITE 200  
 ALEXANDRIA, VA 22314  
 TEL: 703.548.3118  
 FAX: 703.548.3119  
 HTTP://WWW.AGC.ORG/

**AEC**  
**ALUMINUM EXTRUDERS COUNCIL**  
 1000 N. RAND ROAD, SUITE 214  
 WALUCONDA, IL 60084  
 TEL: 847.526.2010  
 FAX: 847.526.3993  
 HTTP://WWW.AEC.ORG/

**ABC**  
**ASSOCIATED BUILDERS AND CONTRACTORS**  
 1300 N. 17TH STREET, SUITE 800  
 ROSSLYN, VA 22209  
 TEL: 703.812.2000  
 FAX: 703.812.8200  
 HTTP://WWW.ABC.ORG/

**BOCA**  
**BUILDING OFFICIALS AND CODE ADMINISTRATORS INTERNATIONAL**  
 4051 W. FLOSSMOOR ROAD  
 COUNTRY CLUB HILLS, IL 60476-6795  
 PHONE: 800.214.4321  
 FAX: 708.799.4981  
 HTTP://WWW.BOCAL.ORG/

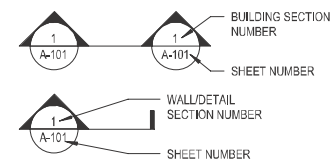
**NPS**  
**NATIONAL PARK SERVICE**  
 PRESERVATION BRIEFS  
 HTTPS://WWW.NPS.GOV/TPS/HOW-TO-PRESERVE/BRIEFS.HTM

REFERENCES ARE MADE IN THE CONTRACT DOCUMENTS TO TRADE ASSOCIATIONS, TECHNICAL SOCIETIES, RECOGNIZED AUTHORITIES, AND OTHER INSTITUTIONS, STANDARDS (PRODUCTS, MATERIALS, SYSTEMS, AND IN SOME CASES, WORKMANSHIP) FOR WORK NOT SPECIFIED IN THE CONTRACT DOCUMENTS SHALL BE DETERMINED ON THE BASIS OF DATA AND STANDARDS PUBLISHED BY THESE ORGANIZATIONS, THE PRODUCTS, MATERIALS, SYSTEMS, AND WORKMANSHIP NECESSARY TO COMPLETE THE WORK IS TO BE IN COMPLIANCE WITH THE APPLICABLE RECOGNIZED STANDARDS OF THE CONSTRUCTION INDUSTRY FOR ITS INTENDED USE. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND AN INDIVIDUAL REFERENCE STANDARD, OR BETWEEN TWO OR MORE REFERENCED STANDARDS, THE MORE STRINGENT SHALL GOVERN. PRODUCTS, MATERIALS AND/OR SYSTEMS INCORPORATED INTO THE WORK SHALL BE SOURCED ONLY FROM MANUFACTURERS OR SUPPLIERS WHO HAVE PUBLISHED DATA SHOWING COMPLIANCE WITH SPECIFIED REQUIREMENTS OR WHO WILL CERTIFY IN WRITING TO SUCH COMPLIANCE (INCLUDING LABORATORY TESTING, IF APPLICABLE).

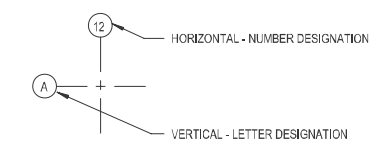
## STANDARD SYMBOL LEGEND

REFERENCE INDIVIDUAL SHEET LEGENDS FOR THOSE SYMBOLS NOT COVERED BY THIS GENERAL LEGEND

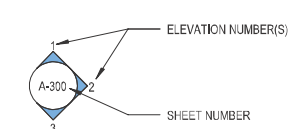
### SECTION IDENTIFICATION



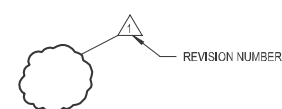
### STRUCTURAL GRID



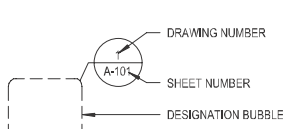
### ELEVATION IDENTIFICATION



### DRAWING REVISION



### CALLOUT IDENTIFICATION



### REFLECTED CEILING PLAN IDENTIFICATION

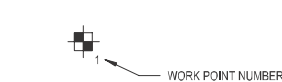
NOTE: USE STANDARD ROOM TAG FOR ROOM NAME AND NUMBER



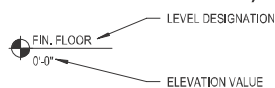
### STANDARD NORTH ARROW



### WORK POINT IDENTIFICATION



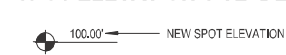
### ELEVATION NOTATION (SECTION AND ELEVATION VIEWS)



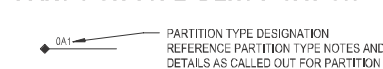
### STANDARD MATCHLINE



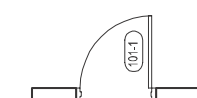
### SPOT ELEVATION SITE IDENTIFICATION



### PARTITION TYPE IDENTIFICATION



### DOOR IDENTIFICATION



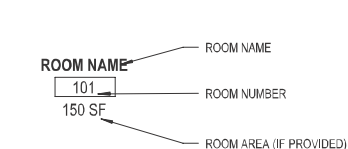
### WINDOW IDENTIFICATION



### EQUIPMENT IDENTIFICATION



### ROOM IDENTIFICATION



## GENERAL PROJECT NOTES

- THESE GENERAL ARCHITECTURAL PROJECT NOTES ARE TO BE READ IN CONJUNCTION WITH THE WRITTEN SPECIFICATIONS AND DRAWINGS. IN THE EVENT OF CONFLICT WITHIN THE INFORMATION IN THE DRAWINGS AND IN THE SPECIFICATIONS, NOTIFY THE ARCHITECT IN WRITING.
- SHOULD THERE BE ANY CONFLICT(S) BETWEEN OR WITHIN DRAWINGS AND/OR SPECIFICATIONS WHICH REQUIRES THE HIGHEST DEGREE OF PERFORMANCE QUALITY, QUANTITY, STRENGTH, FINISH, COMPLETION, COMPLEXITY, SOPHISTICATION, COST, ETC., WILL BE REQUIRED AND SHALL BE PROVIDED. ALL SUCH CONFLICTS MUST BE REFERRED TO ARCHITECT IMMEDIATELY UPON DISCOVERY.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING FIELD CONDITIONS SO AS TO FAMILIARIZE THEMSELVES WITH DEMOLITION AND REMOVAL WORK WHICH MAY BE REQUIRED TO PRODUCE THE END RESULTS INTENDED BY THE DRAWINGS. IT IS THE INTENT THAT EACH PORTION OF THE DEMOLITION WORK AND NEW CONSTRUCTION WORK BE DONE BY THE SPECIAL TRADE INVOLVED IN THE INITIAL INSTALLATION. THEREFORE, EACH CONTRACTOR AND SUBCONTRACTOR SHALL THOROUGHLY EXAMINE THE PROPOSED WORK AND MAKE AN ALLOWANCE IN THE PROPOSAL FOR THE COST OF THE WORK INCLUDING DEMOLITION AND REMOVAL WORK WHICH MAY BE REQUIRED BY HIS TRADE.
- THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS ARE TO VERIFY ALL EXISTING CONDITIONS IN THE FIELD. THE CONTRACTOR IS RESPONSIBLE FOR INFORMING THE ARCHITECT OF ANY DISCREPANCIES THAT MAY BE FOUND.
- THE CONTRACTOR SHALL FIELD VERIFY ALL BUILDING DIMENSIONS, PARTITIONS, WALL LOCATIONS, FLOOR ELEVATIONS, AND OTHERWISE VERIFY ALL DIMENSIONS SHOWN ON THE DRAWINGS, INCLUDING SUBCONTRACTOR'S AND MANUFACTURER'S SHOP DRAWINGS. SHOULD ANY DISCREPANCY OR INCONSISTENCY EXIST THE CONTRACTOR SHALL NOT PROCEED WITH THE WORK AFFECTED THEREBY UNTIL HE HAS NOTIFIED THE ARCHITECT.
- THE CONTRACTOR SHALL VERIFY SIZES OF ALL OPENINGS, CURBS, BASES, RECESSES, ANCHOR BOLT SIZES AND LOCATIONS, WITH CERTIFIED DRAWINGS OF EQUIPMENT APPROVED FOR SUBJECT LOCATIONS BEFORE PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL COORDINATE ALL STEEL AND CONCRETE SLAB PENETRATIONS, SLAB & WALL OPENINGS REQUIRED BY PLUMBING, MECHANICAL & ELECTRICAL TRADES BEFORE ANY SUCH WORK BEGINS.
- THE GENERAL CONTRACTOR SHALL BE REGISTERED WITH THE COUNTY, AS REQUIRED. CONTRACTORS SHALL BE BONDABLE, LICENSED CONTRACTORS AND QUALIFIED BY THE GENERAL CONTRACTOR.
- CONTRACTORS SHALL BE SOLELY RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, LOCAL, ADA/BARRIER-FREE, LANDLORD, OSHA CODES, RULES AND REGULATIONS.
- CONTRACTORS SHALL COORDINATE THEIR WORK WITH THE WORK OF OTHERS AND WITH EXISTING CONDITIONS OCCURRING ON THE PREMISES, AND SHALL MAKE CHANGES AS REQUIRED TO ACCOMMODATE SUCH WORK OR CONDITIONS.
- WORK WHICH DISRUPTS THE OPERATION OF ANY OWNER OCCUPIED SPACE SHALL BE DONE DURING NON-OPERATIONAL HOURS. THE GENERAL CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH ANY OVERTIME WORK IN HIS BASE BID. NO EXTRAS WILL BE APPROVED FOR OVERTIME FOR THIS TYPE OF WORK.
- CONTRACTOR TO LOCATE ALL UTILITIES PRIOR TO COMMENCING WORK. CONTRACTOR TO STAKE ALL NEW CONSTRUCTION AND VERIFY/MAINTAIN APPROVED SETBACKS. CONTRACTOR SHALL ALSO VERIFY ACCURACY OF SURVEY INFORMATION AND ENSURE ACCURATE PLACEMENT OF THE BUILDING ON THE SITE.
- REMOVE ALL DEBRIS TO A DUMPSTER AREA DESIGNATED BY THE OWNER. DUMPSTERS ARE TO BE PROVIDED BY THE GENERAL CONTRACTOR.
- DIMENSIONAL LUMBER, PLYWOOD, PARTIAL BOARD, ETC USED IN CONSTRUCTION SHALL BE UL CERTIFIED AND CONFORM WITH THE TYPE OF CONSTRUCTION AS DEFINED IN THE BUILDING CODE.
- DETAILS SHOWN ARE INTENDED TO DESCRIBE SCOPE AND PROFILE. WHERE DETAILS HAVE NOT BEEN PROVIDED, THE WORK IS INTENDED TO BE SIMILAR IN CHARACTER TO THOSE AREAS DETAILED. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
- ALL EGRESS DOORS SHALL BE READILY OPENED FROM THE SIDE FROM WHICH EGRESS IS TO BE MADE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT. ALL MAIN EXIT DOORS MUST HAVE PANIC HARDWARE.
- EXIT SIGN, EMERGENCY LIGHTING, AND PANIC HARDWARE SHALL BE VERIFIED WITH FIRE MARSHALL AND BUILDING INSPECTOR OF AUTHORITY HAVING JURISDICTION.
- THE CONTRACTOR SHALL NOT PROCEED WITH DETAILING, FABRICATION OR CONSTRUCTION OF ANY WORK CONNECTED WITH OR DEPENDANT ON EQUIPMENT FURNISHED BY "OWNER" OR "OTHER CONTRACTORS" UNTIL HE HAS RECEIVED CERTIFIED OR APPROVED EQUIPMENT DRAWINGS.
- CONSTRUCTION SHALL COMPLY WITH ALL 2015 INTERNATIONAL BUILDING CODES AND LATEST NEW YORK STATE UNIFORM CODE SUPPLEMENTS, RECOGNIZED STANDARDS AND BUILDING PRACTICES, AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION. IN ADDITION, CONSTRUCTION SHALL COMPLY WITH RECOMMENDATIONS, PROCEDURES, SPECIFICATIONS AND STANDARD DETAILS OF MANUFACTURERS AND LICENSED INSTALLERS OF BUILDING COMPONENTS, SYSTEMS AND ASSEMBLIES.
- CONTRACTORS ARE CAUTIONED NOT TO DISTURB ANY STRUCTURAL SUPPORTS, HEADERS, ETC WITHOUT NOTIFYING THE ARCHITECT & STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH ANY WORK.
- ANY STRUCTURAL MODIFICATIONS TO THE BUILDING OUTSIDE OF THESE CONTRACT DOCUMENTS ARE TO BE REVIEWED BY A LICENSED STRUCTURAL ENGINEER FOR REQUIRED INPUT. THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY ENGINEERING REQUIRED (INCLUDING, IF REQUIRED, DRAWINGS AND/OR CALCULATIONS SEALED BY A LICENSED STRUCTURAL ENGINEER) TO COMPLETE THE INTENT OF ALL THE CHANGES SHOWN.
- HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON ALL NEWLY PROVIDED DOORS SHALL HAVE A SHAPE WHICH IS EASY TO GRASP WITH ONE HAND AND WHICH DOES NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST TO OPERATE.
- SHOP DRAWINGS: CONTRACTOR TO SUBMIT APPLICABLE SHOP DRAWINGS AND MATERIAL SUBMITTALS FOR APPROVAL BY ARCHITECT, AND HIS CONSULTANTS, IN A TIMELY MANNER TO ALLOW FOR ADEQUATE REVIEW/REVISION/APPROVAL PRIOR TO ORDERING OF MATERIAL AND FABRICATION OF WORK. ALL SHOP DRAWINGS AND SUBMITTALS SHALL SPECIFICALLY CALL OUT, AT ALL LOCATIONS, WHERE THE ARCHITECT'S ENGINEERING CONSULTANT MUST REVIEW AND APPROVE A DESIGN. CONTRACTOR MAY NOT PROCEED WITH THE WORK IF ENGINEER HAS NOT APPROVED SHOP DRAWINGS AS REQUIRED.
- FOIT-ALBERT ASSOCIATES AND ITS CONSULTANTS ASSUME NO RESPONSIBILITY FOR THE DESIGN OR PROPER INSTALLATION OF TEMPORARY BUILDING BRACING OR SHORING REQUIRED TO COMPLETE THE PROJECT. THE CONTRACTOR AND HIS ENGINEER ARE RESPONSIBLE FOR THE DESIGN AND PROPER INSTALLATION OF ALL TEMPORARY SHORING REQUIRED FOR A SAFE AND STRUCTURALLY SOUND PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES INCURRED DUE TO IMPROPER SHORING AND BRACING DURING THE CONSTRUCTION PROJECT.
- PROVIDE DRAFTSTOPPING AND FIRE BLOCKING AS REQUIRED BY CODE.

## STANDARD ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR	#	FOOTING MARK	MAS	MASONRY	T	TOP
AB	ANCHOR BOLT	FD	FLOOR DRAIN	MAX.	MAXIMUM	TB	TACK BOARD
ACoust	ACOUSTICAL	FDN	FOUNDATION	MECH	MECHANICAL	TC	TOP OF CURB
ADJ.	ADJUSTABLE	F.E.C.	FIRE EXTINGUISHER CABINET	MIN.	MINIMUM	T/CONC	TOP OF CONCRETE
ALT.	ALTERNATE	FE	FIRE EXTINGUISHER	M.O.	MASONRY OPENING	T/DP	TOP OF DRILLED PIER
APPROX.	APPROXIMATE	F.F.-F.	FINISHED FIRST FLOOR	M.R.	MOISTURE RESISTANT	TEMP	TEMPORARY
ARCHL.	ARCHITECTURAL	F.F.	FINISHED FLOOR	MEP	MECHANICAL, ELECTRICAL & PLUMBING	T/FG	TOP OF FOOTING (STRUCTURAL)
		F.G.	FINISHED GRADE	MMR	MOLD AND MOISURE RESISTANT	T/W	TOP OF FOUNDATION WALL (STRUCT)
		FIN.	FINISH (ED)	MTL	METAL	T.O.D.	TOP OF DECK
B.P.	BEAM POCKET	F.C.S.	FINISHED CONCRETE SLAB	N.I.C.	NOT IN CONTRACT	T.O.F.	TOP OF FOUNDATION
B.F.	BEARING CALTIE	F.O.M.	FACE OF MASONRY	NO.	NUMBER	T.O.L.	TOP OF LANDING
BLK.	BLOCK (ING)	FRP	FIBERGLASS REINFORCED PANEL	NOM.	NOMINAL	T.O.M.	TOP OF MASONRY
BD.	BOARD	F.S.F.	FINISHED SECOND FLOOR	N.T.S.	NOT TO SCALE	T.O.P.	TOP OF PARAPET
BRG.	BEARING	F.S.	FIRE SHUTTER	O.C.	ON CENTER	T.O.S.	TOP OF STEEL
B.S.	BOTH SIDES	FT.	FOOT, FEET	O.D.	OUTER DIAMETER	T.O.W.	TOP OF WALL
B.W.	BOTH WAYS	F.T.F.	FINISHED THIRD FLOOR	OH	OPPOSITE HAND	TYP.	TYPICAL
BOT.	BOTTOM	FIG	FOOTING	OPP.	OPPOSITE	T/W	TOP OF WALL (STRUCTURAL)
BLDG.	BUILDING	FRT	FIRE TREATED				
C'	COLUMN MARK	GA	GAUGE	PART, BD	PARTICLE BOARD	U.N.O.	UNLESS NOTED OTHERWISE
CIP	CAST-IN-PLACE CONCRETE	GALV	GALVANIZED	PARTN	PARTITION	UTIL	UTILITIES
CLNG	CEILING	GB	GRADE BEAM	PC	PIER CAP (STRUCTURAL)	W	WITH
CL	CENTERLINE	GC	GENERAL CONTRACTOR	PC	POINT OF CURVE	WD	WOOD
CLR	CLEAR	GWB	GYPSUM WALL BOARD	PC	PLATE (STRUCTURAL)	WWF	WELDED WIRE FABRIC
CMU	CONCRETE MASONRY UNIT	GYP	GYPSUM	PL	PROPERTY LINE		
COL	COLUMN	HORIZ	HORIZONTAL	P.L.A.M.	PLASTIC LAMINATE	V.B.	VAPOR BARRIER
CONC	CONCRETE	HT	HEIGHT	P.L.F.	POUNDS PER LINEAL FOOT	V.C.T.	VINYL COMPOSITION TILE
CONN	CONNECTION	HM	HOLLOW METAL	PLYWD	PLYWOOD	VERT.	VERTICAL
CONT.	CONTINUOUS	IN	INCH (ES)	PREFAB	PREFABRICATED	V.I.F.	VERIFY IN FIELD
C.J.	CONTROL JOINT	INSUL	INSULATE (D) (ION)	P.S.F.	POUNDS PER SQUARE FOOT		
C.T.	CERAMIC TILE	ID.	INSIDE DIAMETER	P.S.I.	POUNDS PER SQUARE INCH		
		INV.	INVERT	P.T.	PRESSURE TREATED		
D.F.	DRINKING FOUNTAIN	JAN CLOS	JANITOR'S CLOSET	R	RADIUS		
DBA	DOUBLE BAR ANCHORS	JT	JOINT	RTU	ROOF TOP UNIT		
DBL	DOUBLE	L.L.V.	LONG LEG VERTICAL	REINF	REINFORCED (ING) (MENT)		
DIA	DIAMETER	LF	LINEAL FEET	REQD.	REQUIRED		
DN	DIMENSION	LT, WT.	LIGHT WEIGHT	REV	REVISION, REVISED		
D.L.	DEAD LOAD	LL.	LIVE LOAD	RM	ROOM		
DWG(S)	DRAWING(S)	L.L.H.	LONG LEG HORIZONTAL	SECT	SECTION		
E.C.	EPOXY COATED			SERV	SERVICES		
E.F.	EACH FACE			SHT	SHEET		
E.F.F.	ELEVATION FINISHED FLOOR			SIM	SIMILAR		
E.I.F.S	EXTERIOR INSULATION FINISH SYSTEM			S.L.	SNOW LOAD		
E.J.	EXPANSION JOINT			S.O.G.	SLAB-ON-GRADE		
ELEV	ELEVATION			SPEC	SPECIFICATION		
ENCL	ENCLOSE (URE)			SQ.	SQUARE		
ENG	ENGINEERING, ENGINEERED			SS	STAINLESS STEEL		
EP	ELECTRIC PANEL			STL	STEEL		
EQ	EQUIPMENT			STRUCT	STRUCTURE, STRUCTURAL		
E.R.D.	EXISTING ROOF DRAIN			SUSP	SUSPENDED		
E.W.	EACH WAY						
EXIST.	EXISTING						



**PRELIMINARY  
 NOT FOR  
 CONSTRUCTION**  
 DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED BY THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN/BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN/BUILDER.

NO.	DATE	ISSUED FOR	BY

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
 CRITERIA PACKAGE**

DATE: OCTOBER 2019

PROJECT NO.: FW-35B116-03CR

FILE NAME: BP-A001

DESIGNED BY: M. BRAY

DRAWN BY: M. BRAY

CHECKED BY: S. ARCHAMBAULT

NASSAU COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC  
 WORKS

BAY PARK PROGRAM  
 MANAGEMENT EFFLUENT  
 DIVERSION PUMPING  
 STATION

**SHEET TITLE**

BAY PARK  
 EFFLUENT DIVERSION  
 PUMP STATION  
 ARCHITECTURE  
 SYMBOLS, ABBREVIATIONS  
 AND NOTES

SCALE:  
 AS NOTED

BP-A001  
 PAGE 18



**BUILDING CODE SUMMARY**

NAME OF PROJECT: BAY PARK PROGRAM MANAGEMENT EFFLUENT PUMPING STATION
ADDRESS: 2 Marjorie Ln, East Rockaway, NY 11518
PROPOSED USE: UTILITY STRUCTURE FOR PUMPING STATION
OWNER/AUTHORIZED AGENT:
OWNED BY: CITY/COUNTY PRIVATE STATE
CODE ENFORCEMENT JURISDICTION: CITY COUNTY

**LEAD DESIGN PROFESSIONAL**

Table with columns: DISCIPLINE, FIRM NAME, DESIGNER NAME, LICENSE #, PHONE NUMBER. Rows include CIVIL, STRUCTURAL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE ALARM, SPRINKLER-STANDPIPE, OTHER.

**BUILDING CODE**

NEW CONSTRUCTION CHANGE OF OCCUPANCY
BUILDING: INTERNATIONAL BUILDING CODE 2015 AS ADOPTED BY NEW YORK STATE
LOCAL AMENDMENTS: TOWN OF HEMPSTEAD BUILDING CODE
FIRE CODE: INTERNATIONAL FIRE CODE 2015 AS ADOPTED BY NEW YORK STATE, NFPA (LATEST VERSION)
ACCESSIBILITY: ICC/ANSI A117.1-2009 AND BUILDING CODE OF NEW YORK STATE
ENERGY: INTERNATIONAL ENERGY CODE 2015 AS ADOPTED BY NEW YORK STATE

**BUILDING DATA**

CONSTRUCTION TYPE: I-A I-B II-A II-B III-A III-B
MIXED OCCUPANCY: YES NO TYPES:
FIRE DISTRICT: YES NO
BUILDING HEIGHT: FEET NUMBER OF STORIES UNLIMITED PER
MEZZANINE: YES NO
HIGH RISE: YES NO CENTRAL REFERENCE SHEET # IF PROVIDED

**BUILDING USES**

Table with columns: LEVEL, GROSS AREA, BLDG. AREA, USE, AREA (SF), AREA/OCCUPANT TABLE 1004.1.2, OCCUPANT LOAD, EXCEPTIONS. Rows include PUMP ROOM, PUMP ELECTRICAL.

**FIRE PROTECTION REQUIREMENTS**

Table with columns: BUILDING ELEMENT, FIRE SEPARATION DISTANCE (FEET), RATING, DETAIL # SHEET #, DESIGN # FOR RATED ASSEMBLY, DESIGN # FOR RATED PENETRATION. Rows include STRUCTURAL FRAME, EXTERIOR, INTERIOR, FLOOR CONSTRUCTION, ROOF CONSTRUCTION, etc.

**ALLOWABLE AREA**

PRIMARY OCCUPANCY: ASSEMBLY, BUSINESS, EDUCATIONAL, FACTORY, HAZARDOUS, INSTITUTIONAL, I-3 USE CONDITION, MERCANTILE, RESIDENTIAL, STORAGE, UTILITY AND MSC.
SECONDARY OCCUPANCY: SPECIAL OCCUPANCY, MIXED OCCUPANCY

Table with columns: STORY NO., DESCRIPTION & USE, (A) BLDG. AREA PER STORY (ACTUAL), (B) TABLE 506.2 AREA, (C) AREA FOR FRONTAGE INCREASE, (D) AREA FOR SPRINKLER INCREASE, (E) ALLOWABLE AREA OR UNLIMITED, (F) MAXIMUM BUILDING AREA. Rows include PUMP ROOM, PUMP ELECTRICAL.

FRONTAGE INCREASES FROM SECTION 506.2 ARE COMPUTED THUS:
A. PERIMETER WHICH FRONTS A PUBLIC WAY OR OPEN SPACE HAVING 20 FEET MINIMUM WIDTH = (F)
B. TOTAL BUILDING PERIMETER = (P)
C. RATIO (F/P) = (F/P)
D. MINIMUM WIDTH OF PUBLIC WAY = (W)
E. PERCENT OF FRONTAGE INCREASE = 100 ((F/P) - 0.25) x W/30 = %

**ALLOWABLE HEIGHT**

Table with columns: TYPE OF CONSTRUCTION, ALLOWABLE (TABLE 504.3), SHOWN ON PLANS, CODE REFERENCE (TABLE 504.3 AND 504.4). Rows include BUILDING HEIGHT (FT), BUILDING HEIGHT (STORIES).

**LIFE SAFETY SYSTEM REQUIREMENTS**

SPRINKLER SYSTEMS: YES NO NFPA 13 NFPA 13R
STANDPIPE SYSTEMS: YES NO CLASS: I II III WET DRY
EXTINGUISHING SYSTEMS: YES NO
FIRE EXTINGUISHERS: YES NO
FIRE ALARM SYSTEMS: YES NO
SMOKE DETECTION: YES NO
H-RISE FIRE SAFETY: YES NO
VISIBLE ALARMS: YES NO
SMOKE CONTROL: YES NO

**INTERIOR FINISHES - WALL AND CEILING**

Table with columns: GROUP OCCUPANCY, INTERIOR STAIRWAYS, RAMPS AND EXIT PASSAGEWAYS, CORRIDORS AND ENCLOSURES FOR EXIT ACCESS, ROOMS AND ENCLOSED SPACES. Rows include UTILITY (U).

**EXIT REQUIREMENTS**

Table with columns: FLOOR, ROOM, OR SPACE DESIGNATION, MINIMUM NUMBER OF EXITS, TRAVEL DISTANCE, ARRANGEMENT MEANS OF EGRESS. Rows include PUMP ROOM, PUMP ELECTRICAL.

CORRIDOR DEAD ENDS (SECTION 1016.3)
SINGLE EXITS (TABLE 1014.1)
COMMON PATH OF TRAVEL (SECTION 1015)

**EXIT WIDTH**

Table with columns: USE GROUP OR SPACE DESCRIPTION, AREA SQ. FT., AREA PER OCCUPANT, EGRESS WIDTH PER OCCUPANT, REQUIRED WIDTH, ACTUAL WIDTH. Rows include UTILITY (U).

SEE TABLE 1004.1.2 TO DETERMINE WHETHER NET OR GROSS AREA IS APPLICABLE. SEE DEFINITION "FLOOR AREA, GROSS" AND "FLOOR AREA, NET" (SECTION 1002)
THE SPRINKLER INCREASE PER SECTION 506.3 IS AS FOLLOWS:
C. MULTI-STORY BUILDING 1 = 200 PERCENT
D. SINGLE STORY BUILDING 1 = 300 PERCENT
MINIMUM STAIRWAY WIDTH (SECTION 1008.1), MIN. CORRIDOR WIDTH (SECTION 1016.2), MIN. DOOR WIDTH (SECTION 1008.1)
MINIMUM WIDTH OF EXIT PASSAGEWAY (SECTION 1020.2)
THE LOSS OF ONE MEANS OF EGRESS SHALL NOT REDUCE THE AVAILABLE CAPACITY TO LESS THAN 50 PERCENT OF THE TOTAL REQUIRED (SECTION 1005.1)
ASSEMBLY OCCUPANCIES (SECTION 1024)

**PLUMBING FIXTURE REQUIREMENTS**

Table with columns: FIXTURE & COUNT PROVIDED, MALE, FEMALE, PLUMBING LOAD CALCULATIONS. Rows include WATERCLOSETS, URINALS, LAVATORIES, SHOWERS/TUBS, DRINKING FOUNTAINS, SERVICE SINK.

**ENERGY CODE COMPLIANCE**

Table with columns: ENVELOPE COMPONENT, REQUIRED R-VALUE / U-VALUE, PROVIDED R-VALUE / U-VALUE, DETAILS/COMMENTS. Rows include ROOFS - INSULATION, WALLS - ABOVE GRADE, WALLS - BELOW GRADE, FLOOR SLABS - RAISED ABOVE GRADE, OPAQUE DOORS - NON-SWINGING, OPAQUE DOORS - SWINGING, FENESTRATION - FIXED, FENESTRATION - OPERABLE, FENESTRATION - ENTRANCE DOOR.



PRELIMINARY NOT FOR CONSTRUCTION
DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED BY THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

**FINAL DESIGN CRITERIA PACKAGE**

DATE: OCTOBER 2019
PROJECT NO.: PW-35B116-03CR
FILE NAME: BP-A050
DESIGNED BY: M. BRAY
DRAWN BY: M. BRAY
CHECKED BY: S. ARCHAMBAULT

NASSAU COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS

BAY PARK PROGRAM
MANAGEMENT EFFLUENT
DIVERSION PUMPING
STATION

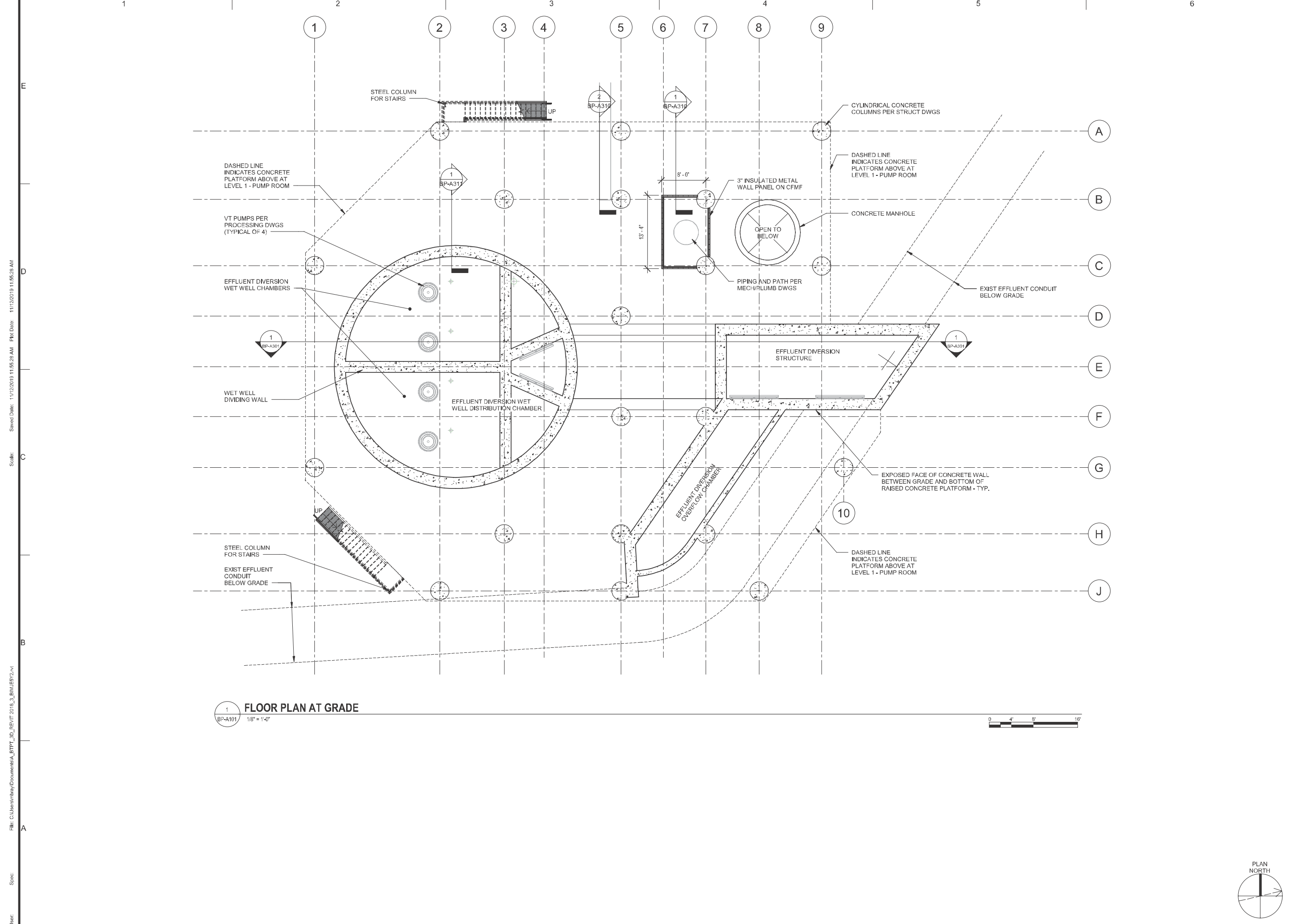
**SHEET TITLE**

BAY PARK
EFFLUENT DIVERSION
PUMP STATION
CODE COMPLIANCE -
SUMMARY

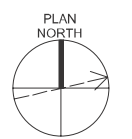
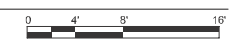
SCALE: AS NOTED

BP-A050
PAGE 19

Vertical text on the left margin: Saved Date: 11/12/2019 11:55:26 AM, Plot Date: 11/12/2019 11:55:26 AM, Scale: 1/8"=1'-0", User: C:\Users\mbray\Documents\A\BPTT\_3D\_REVIT\_2019\_3\_BIM\BPTT2.vlx



1 FLOOR PLAN AT GRADE  
BP-A101 1/8" = 1'-0"



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED BY THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON COSTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**  
DATE: OCTOBER 2019  
PROJECT NO.: PW-35B116-03CR  
FILE NAME: BP-A101  
DESIGNED BY: M. BRAY  
DRAWN BY: M. BRAY  
CHECKED BY: S. ARCHAMBAULT

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS  
  
BAY PARK PROGRAM  
MANAGEMENT EFFLUENT  
DIVERSION PUMPING  
STATION

SHEET TITLE  
  
BAY PARK  
EFFLUENT DIVERSION  
PUMP STATION  
ARCHITECTURE  
FLOOR PLAN AT GRADE

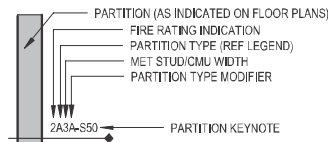
SCALE: AS NOTED

BP-A101  
PAGE 20

User: Spec: C:\Users\mbray\Documents\A\BPTT\_3D\_REVIT 2019\_3\_BIM\BPTT2.v1t Scale: 11/12/2019 11:55:28 AM Pbi Date: 11/12/2019 11:55:28 AM

**PARTITION TYPE GENERAL NOTES**

**PARTITION TYPE TAG**



1. THE "PARTITION TYPE TAG", ILLUSTRATED ABOVE, INDICATES THE ASSEMBLY OF THE PRODUCTS MAKING UP EACH PARTITION INDICATED BY THE TAG ON THE FLOOR PLANS, AND OTHER DRAWINGS IN THE PROJECT DOCUMENTS.
2. REFER TO PARTITION TYPE DETAILS INDICATED BY THE "PARTITION TYPE" CHARACTER ON THE TAG  
EXAMPLE: PARTITION TAG ID "A" = REFERENCE TO DETAIL "TYPE A".
3. REFER TO THE "FIRE RATING LEGEND" BELOW FOR THE FIRE-RESISTANCE CLASSIFICATION NOTED BY THE "FIRE RATING IDENTIFICATION" ON THE TAG  
EXAMPLE: "1" = 60 MIN FIRE-RESISTANCE RATED PARTITION ASSEMBLY.
4. THE "METAL STUD/CMU NOM WIDTH" CHARACTER ON THE TAG, AND AS SHOWN ON PARTITION TYPE DETAILS, INDICATES THE METAL STUD OR CMU NOM WIDTH  
EXAMPLE: "2" = 12 INCH CMU WALL THICKNESS, NOM.
5. THE "PARTITION TYPE MODIFIER" CHARACTERS REFER TO THE "PARTITION TYPE MODIFIER" NOTES SHOWN BELOW, WHICH APPLY TO THE COMPLETE EXTENT OF EACH PARTITION WHERE SO TAGGED.  
EXAMPLE: "A" FOR INSULATION AS DESCRIBED IN THE MODIFIER.

**FIRE RATING LEGEND**

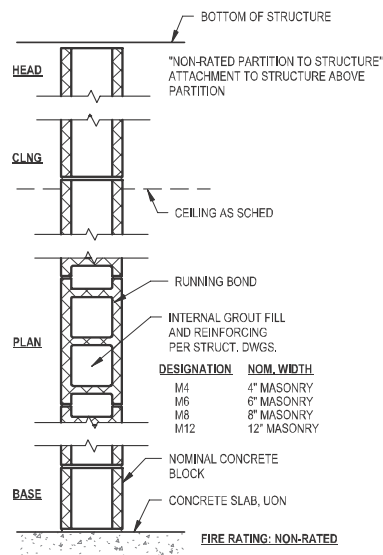
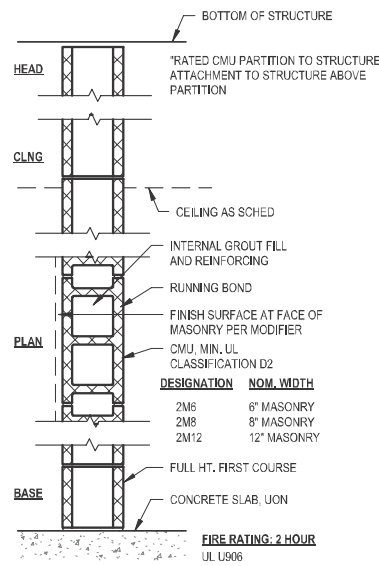
THE COMPLETE ASSEMBLY OF EACH PARTITION WITH A FIRE RATING INDICATION SYMBOL SHOWN ON THE TAG, SHALL COMPLY WITH ALL REQUIREMENTS OF THE FIRE-RESISTANCE RATING CLASSIFICATION:

SYMBOL	RATING CLASSIFICATION
<OMITTED>	NON-RATED PARTITION, UON
1	60 MIN FIRE-RESISTANCE RATED FIRE PARTITION
1S	60 MIN FIRE-RESISTANCE RATED & SMOKE BARRIER PARTITION
2	120 MIN FIRE-RESISTANCE RATED FIRE BARRIER
3	180 MIN FIRE-RESISTANCE RATED FIRE BARRIER
4	240 MIN FIRE-RESISTANCE RATED FIRE BARRIER

**PARTITION TYPE MODIFIERS**

THE FOLLOWING NOTES APPLY TO THE FULL EXTENT OF EACH PARTITION, WHERE "PARTITION TYPE MODIFIER" CHARACTER(S) ARE SHOWN ON THE TAG.

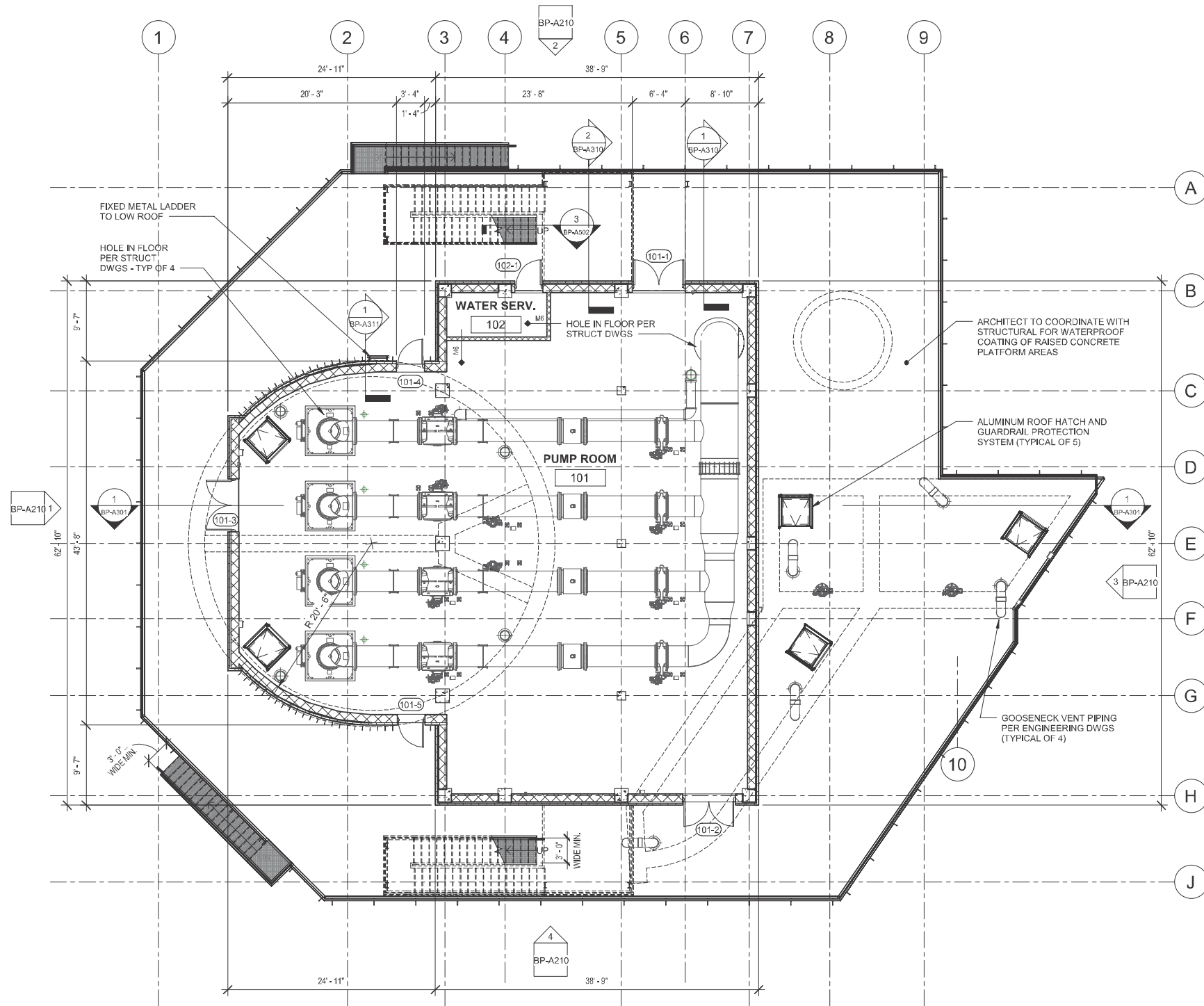
- PROVIDE THERMAL INSULATION BATT FULL HEIGHT IN EACH STUD CAVITY, AS SPECIFIED.
- PROVIDE RIGID INSULATION FULL HEIGHT OF WALL ON ONE SIDE, AS SPECIFIED.
- PROVIDE PART TYPE AS SCHED, WITH MIN 20 GA MET STUDS @ 16" OC
- PROVIDE PART TYPE AS SCHED, WITH MIN 16 GA MET STUDS @ 16" OC
- PROVIDE PART TYPE AS SCHED, WITH MIN 16 GA MET STUDS @ 16" OC
- PROVIDE ADDITIONAL (1) LAYER 5/8" WR GYP BD AND 7/8" HAT CHANNEL FURRING OVER MASONRY WALL, FINISH GYP AND FURRING TO EXTERIOR OF MASONRY AS SHOWN ON PLANS.
- PROVIDE SINGLE LAYER OF EXPANDED METAL LATHE BEHIND THE CORRIDOR/WALKWAY SIDE BEFORE INSTALLING GYP BOARD AS CALLED FOR IN PARTITION TYPE.



**3 TYPE 2M - MASONRY WALL - 2 HR. RATED**  
1" = 1'-0"

**2 TYPE 0M - MASONRY WALL - NON-RATED**  
1" = 1'-0"

**1 FLOOR PLAN - LEVEL 1**  
1/8" = 1'-0"



**PRELIMINARY NOT FOR CONSTRUCTION**  
DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED BY THE PARTNER RELEASED FOR CONSTRUCTION. SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON COORDINATING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN CRITERIA PACKAGE**

DATE: OCTOBER 2019

PROJECT NO.: PW-35B116-03CR

FILE NAME: BP-A102

DESIGNED BY: M. BRAY

DRAWN BY: M. BRAY

CHECKED BY: S. ARCHAMBAULT

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS

**BAY PARK PROGRAM MANAGEMENT EFFLUENT DIVERSION PUMPING STATION**

**SHEET TITLE**

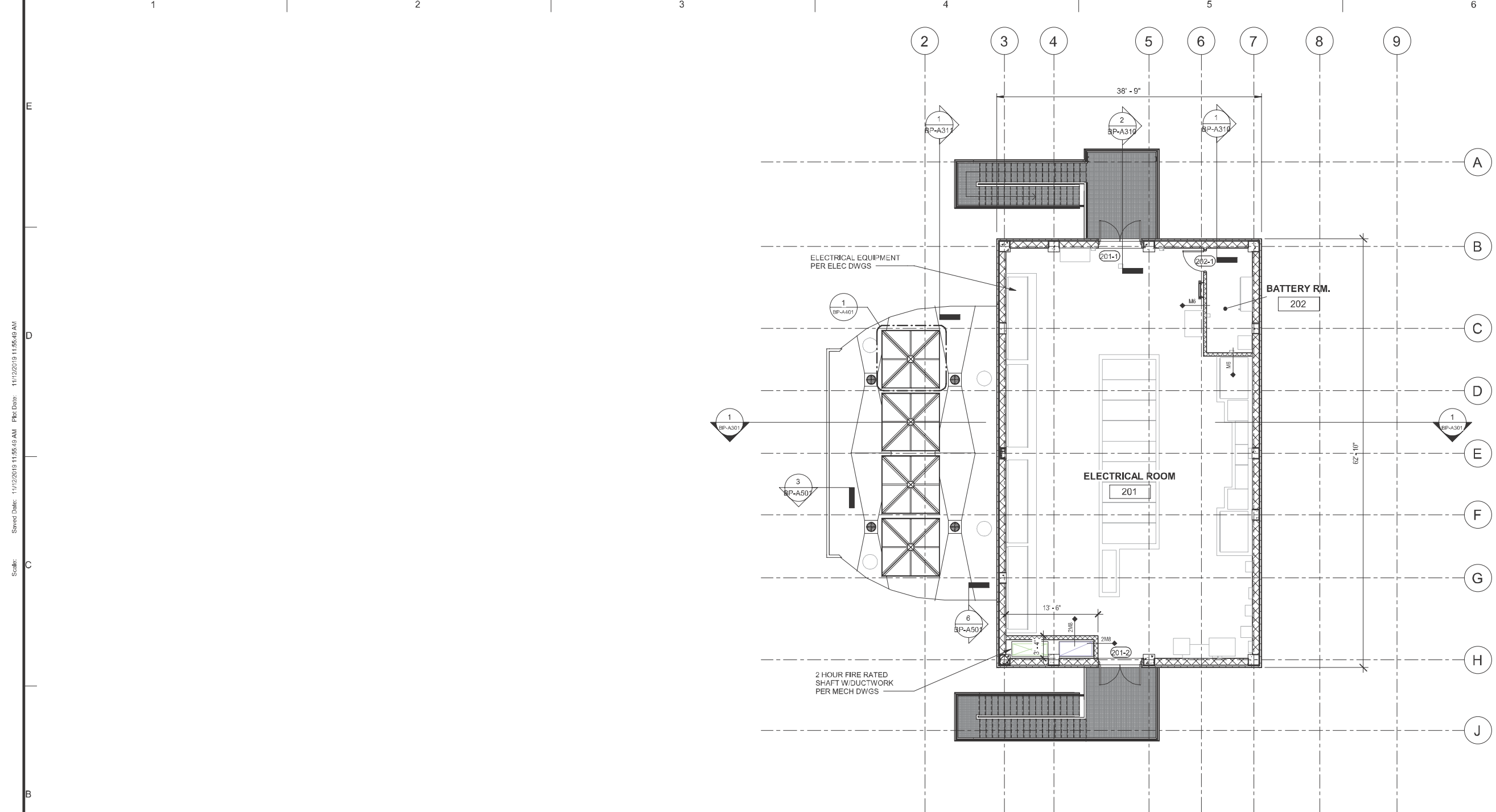
BAY PARK EFFLUENT DIVERSION PUMP STATION  
ARCHITECTURE  
FLOOR PLAN - LEVEL 1

SCALE: AS NOTED

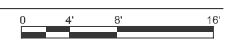
**BP-A102**

PAGE 21

Saved Date: 12/02/2019 10:55:16 AM Pbi Date: 12/02/2019 10:55:16 AM  
 Scale: 1/8" = 1'-0"  
 User: C:\Users\mbray\Documents\A\BPTT\_3D\_REVIT 2019\_3\_03.mxd



1  
BP-A103  
FLOOR PLAN - LEVEL 2  
1/8" = 1'-0"



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED BY THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	OCTOBER 2019		
PROJECT NO.:	PW-35B116-03CR		
FILE NAME:	BP-A103		
DESIGNED BY:	M. BRAY		
DRAWN BY:	M. BRAY		
CHECKED BY:	S. ARCHAMBAULT		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

BAY PARK PROGRAM  
MANAGEMENT EFFLUENT  
DIVERSION PUMPING  
STATION

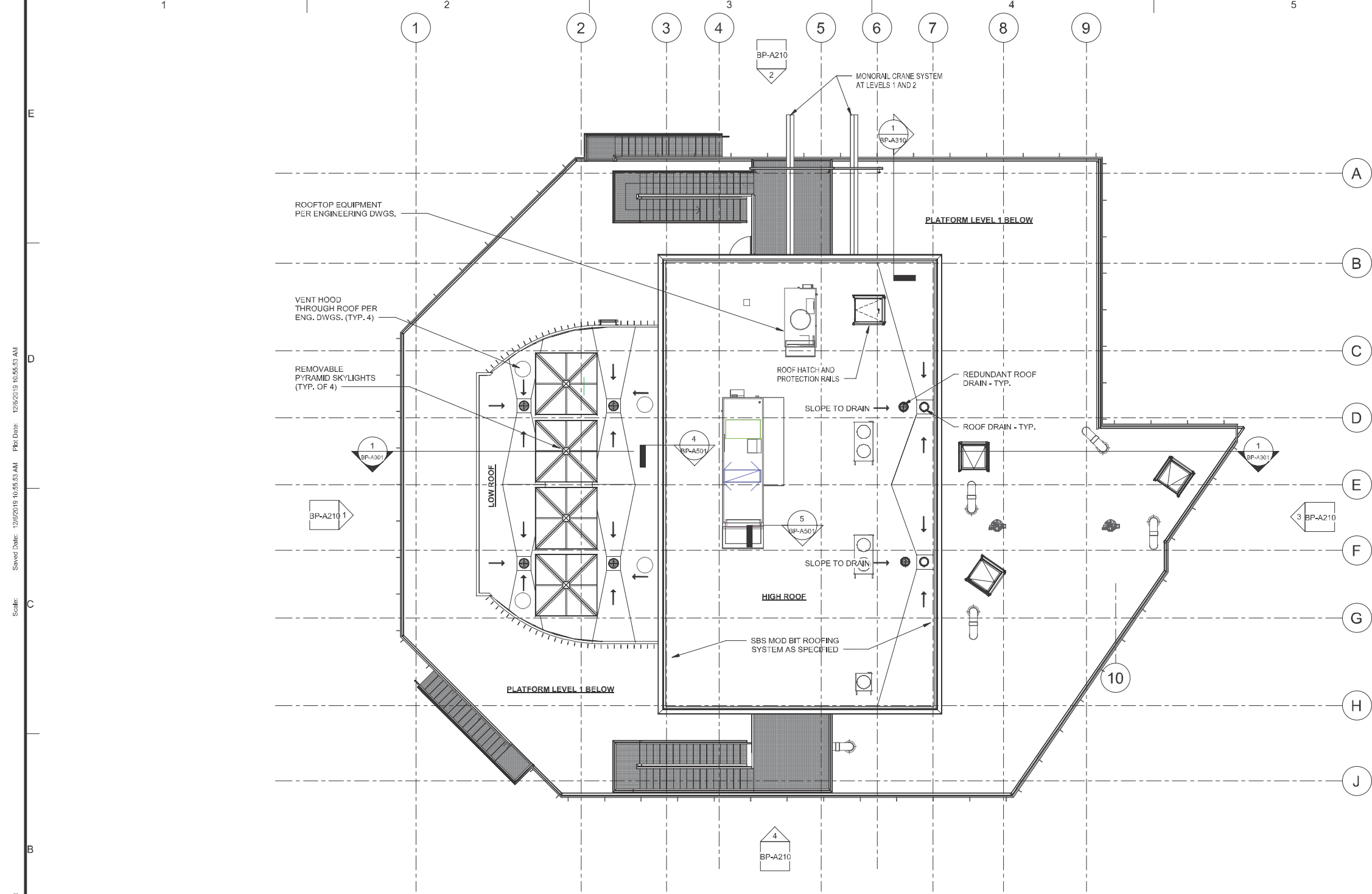
SHEET TITLE  
  
BAY PARK  
EFFLUENT DIVERSION  
PUMP STATION  
  
ARCHITECTURE  
FLOOR PLAN - LEVEL 2

SCALE:  
AS NOTED

BP-A103  
PAGE 22

User: Spec: File: C:\Users\mbray\Documents\A\BPTT\_3D\_REVIT 2019\_3\_BIM\B5Y2.v1t Scale: 11/12/2019 11:55:49 AM Pbi Date: 11/12/2019 11:56:49 AM





**ROOF PLAN NOTES**

1. ALL ROOF AREAS SHALL HAVE A SLOPE OF 1/4" PER FOOT MINIMUM.
2. ROOF INSULATION SHALL BE A MINIMUM OF R-30 PER IBC IECC AS ADOPTED BY NEW YORK STATE.



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED BY THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE: OCTOBER 2019

PROJECT NO.: PW-35B116-03CR

FILE NAME: BP-A104

DESIGNED BY: M. BRAY

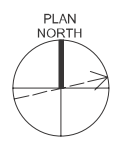
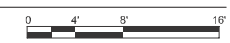
DRAWN BY: M. BRAY

CHECKED BY: S. ARCHAMBAULT

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

BAY PARK PROGRAM  
MANAGEMENT EFFLUENT  
DIVERSION PUMPING  
STATION

**1 ROOF PLAN**  
BP-A104  
1/8" = 1'-0"



**SHEET TITLE**

BAY PARK  
EFFLUENT DIVERSION  
PUMP STATION  
ARCHITECTURE  
ROOF PLAN

SCALE: AS NOTED

User: Spec  
 File: C:\Users\mbray\Documents\A\BPTT\_3D\_REVIT 2019\_3\_mbray.rvt  
 Scale: 1/8" = 1'-0"  
 Saved Date: 12/06/2019 10:55:53 AM  
 Plo Date: 12/06/2019 10:55:53 AM



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

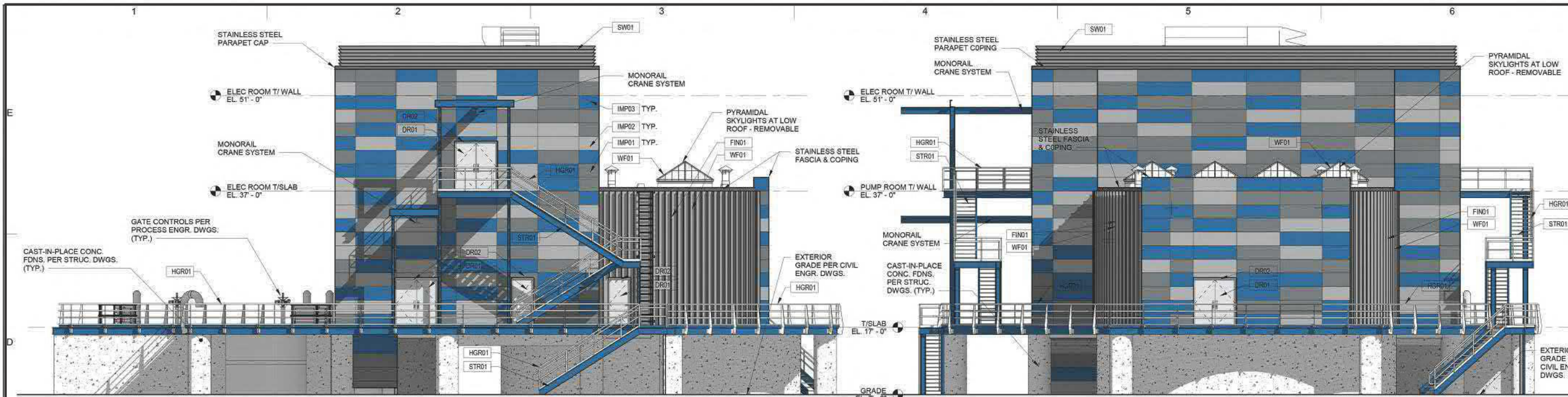
NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	OCTOBER 2019		
PROJECT NO.:	PW-35B116-03CR		
FILE NAME:	BP-A210		
DESIGNED BY:	M. BRAY		
DRAWN BY:	M. BRAY		
CHECKED BY:	S. ARCHAMBAULT		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

BAY PARK PROGRAM  
MANAGEMENT EFFLUENT  
DIVERSION PUMPING  
STATION

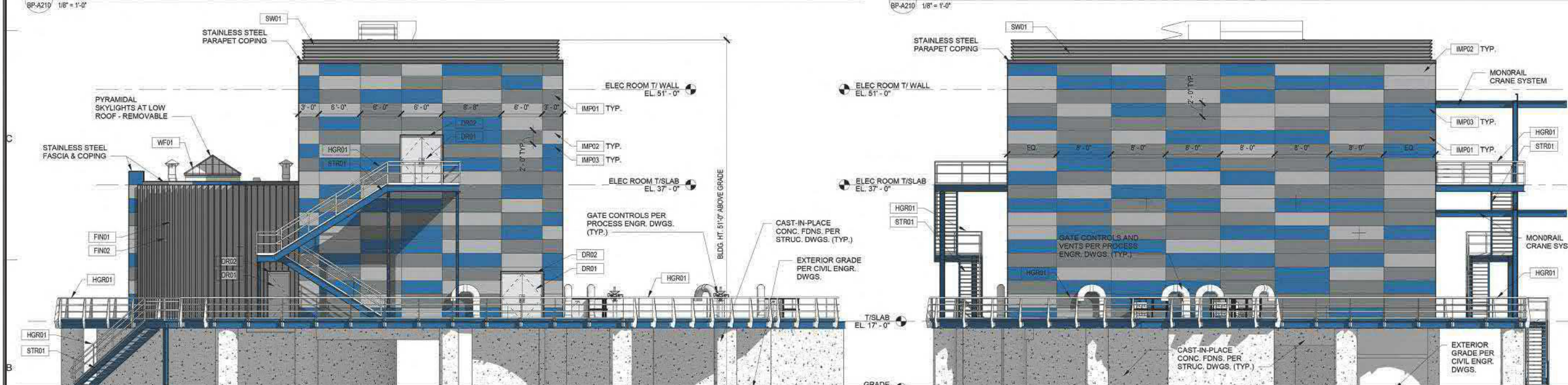
SHEET TITLE  
**BAY PARK  
EFFLUENT DIVERSION  
PUMP STATION  
EXTERIOR FINISH  
ELEVATIONS**

SCALE:  
AS NOTED  
**BP-A210**  
PAGE 24



**2 FINISH EXTERIOR ELEVATION - WEST FACING**  
BP-A210 1/8" = 1'-0"

**1 FINISH EXTERIOR ELEVATION - SOUTH FACING**  
BP-A210 1/8" = 1'-0"



**4 FINISH EXTERIOR ELEVATION - EAST FACING**  
BP-A210 1/8" = 1'-0"

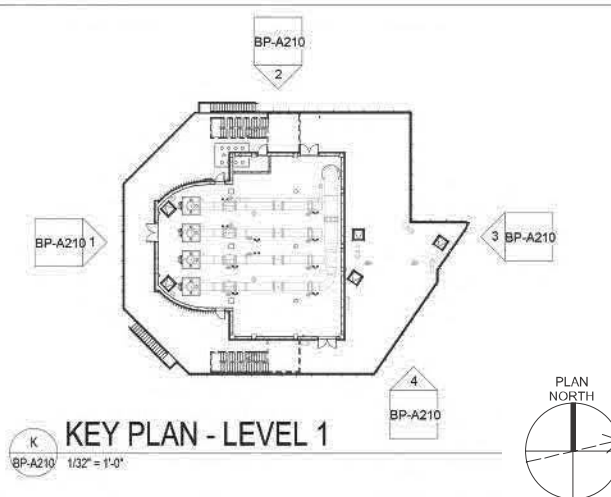
**3 FINISH EXTERIOR ELEVATION - NORTH FACING**  
BP-A210 1/8" = 1'-0"

**EXTERIOR MATERIAL AND FINISH SELECTION SCHEDULE**

THE MATERIALS AND COLORS LISTED BELOW ARE PART OF THE BAY PARK APPROVED COLOR SCHEME, AND SHALL BE CONSIDERED MANDATORY, WHEREVER THE FINAL DESIGN BY THE DESIGN-BUILDER MAY REQUIRE EACH OF THEM TO BE APPLIED.

TAG	SPEC	BUILDING COMPONENT	MATERIAL/COLOR/FINISH	FEDERAL STANDARD 955C COLOR
IMP01	074213.19	INSULATED METAL PANEL SIDING	STAINLESS STEEL/COATING/MEDIUM GRAY (RGB 797FF)	16270
IMP02			STAINLESS STEEL/COATING/AIRCRAFT GRAY (RGB 8EA2A3)	16473
IMP03			STAINLESS STEEL/COATING/CFV10300 BLUE	15092
MP01	074213	METAL PANEL SIDING	STAINLESS STEEL/POWDER COAT/CFV10300 BLUE	15092
MTL01	077100	METAL CANOPY/COPINGS/TRIM	STAINLESS STEEL NO. 4 FINISH - 16 GAUGE	---
DR01	081613	DOORS	FIBERGLASS/WHITE/PEBBLE	---
DR02	081119	DOOR FRAMES	STAINLESS STEEL NO. 4 FINISH	---
WF01	084523	SKYLIGHT WINDOW FRAME	ALUMINUM/POWDER COAT/6946 SILVERSMITH	17178
FIN01	055000	VERTICAL FEATURE FINS	STAINLESS STEEL NO. 4 FINISH - 16 GAUGE	---
FIN02	055000	VERTICAL FIN SUPPORTS	EPOXY/CFV10300 BLUE	15092
STL01	055000	EXTERIOR EXPOSED BUILDING STEEL	EPOXY PAINT/CFV10300 BLUE	15092
SW01		SCREENWALL LOUVERBLADES	ALUMINUM/POWDER COAT/BRIGHT SILVER - SRI 52 - AL222	17178
STR01	055119	EGRESS STAIR	EPOXY/CFV10300 BLUE, W/STAINLESS TREADS	13538
HGR01	055213	ALUMINUM HANDRAILS/GUARDRAILS	POWDER COAT/7040 BY CODY BUILDER SUPPLY	26373

<http://www.fed-std-595.com/FS-595-Paint-Spec.html>



**KEY PLAN - LEVEL 1**  
BP-A210 1/32" = 1'-0"

User: Spec: A File: C:\Users\mray\Documents\BP\_A210\_REVIT\_2019\_3\_rbray.rvt Plot Date: 11/25/2019 10:11:11 AM Scale: 11/25/2019 10:11:11 AM





**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED BY THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE: OCTOBER 2019

PROJECT NO.: PW-35B116-03CR

FILE NAME: BP-A301

DESIGNED BY: M. BRAY

DRAWN BY: M. BRAY

CHECKED BY: S. ARCHAMBAULT

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

BAY PARK PROGRAM  
MANAGEMENT EFFLUENT  
DIVERSION PUMPING  
STATION

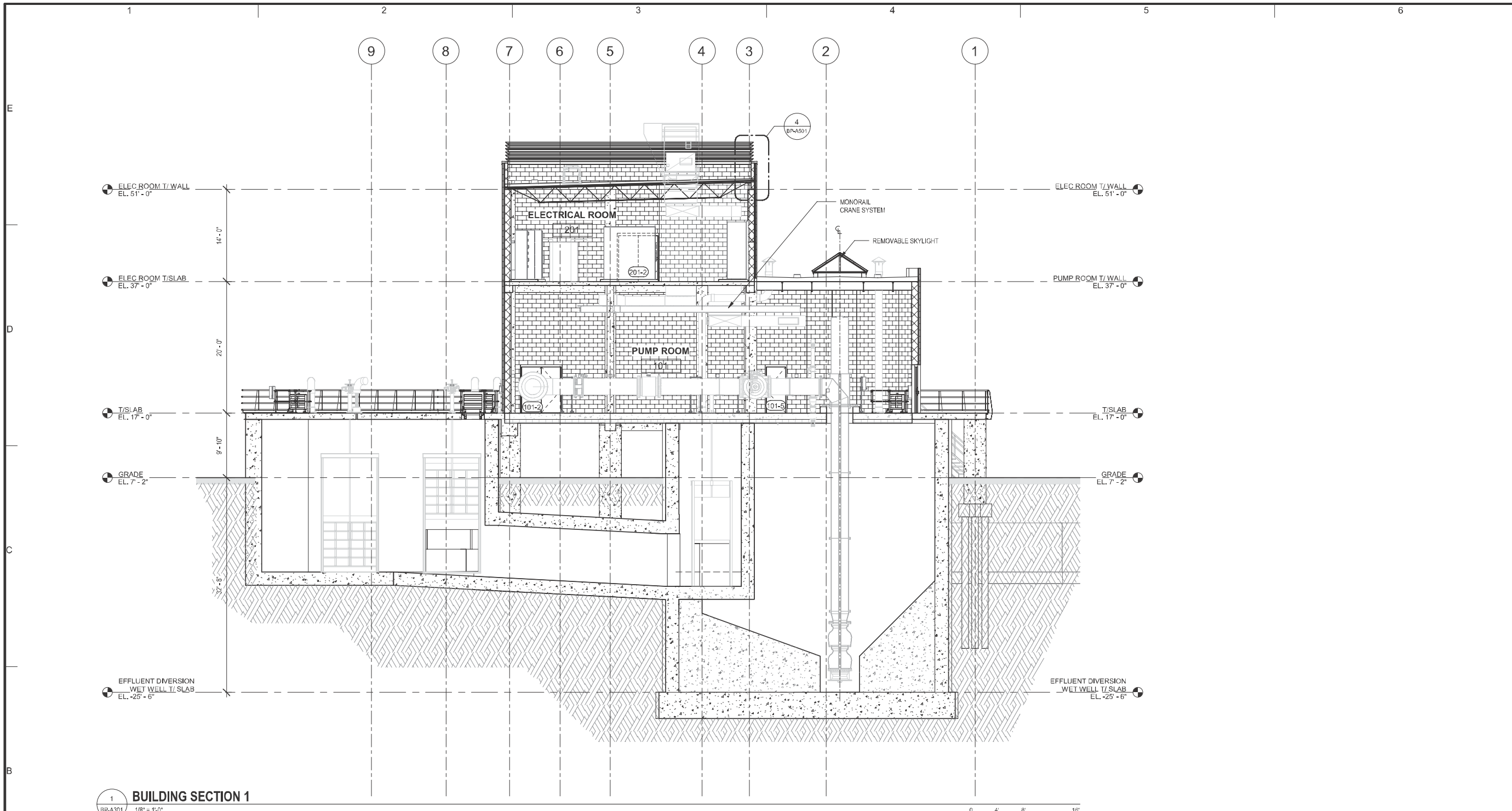
SHEET TITLE

BAY PARK  
EFFLUENT DIVERSION  
PUMP STATION  
ARCHITECTURE  
BUILDING SECTION

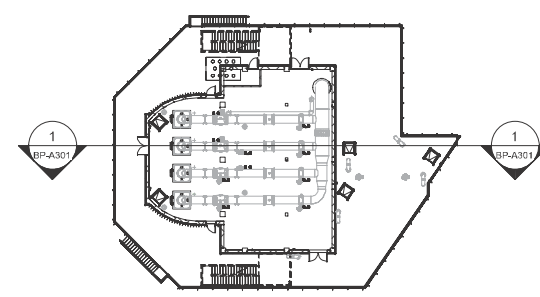
SCALE: AS NOTED

BP-A301

PAGE 25



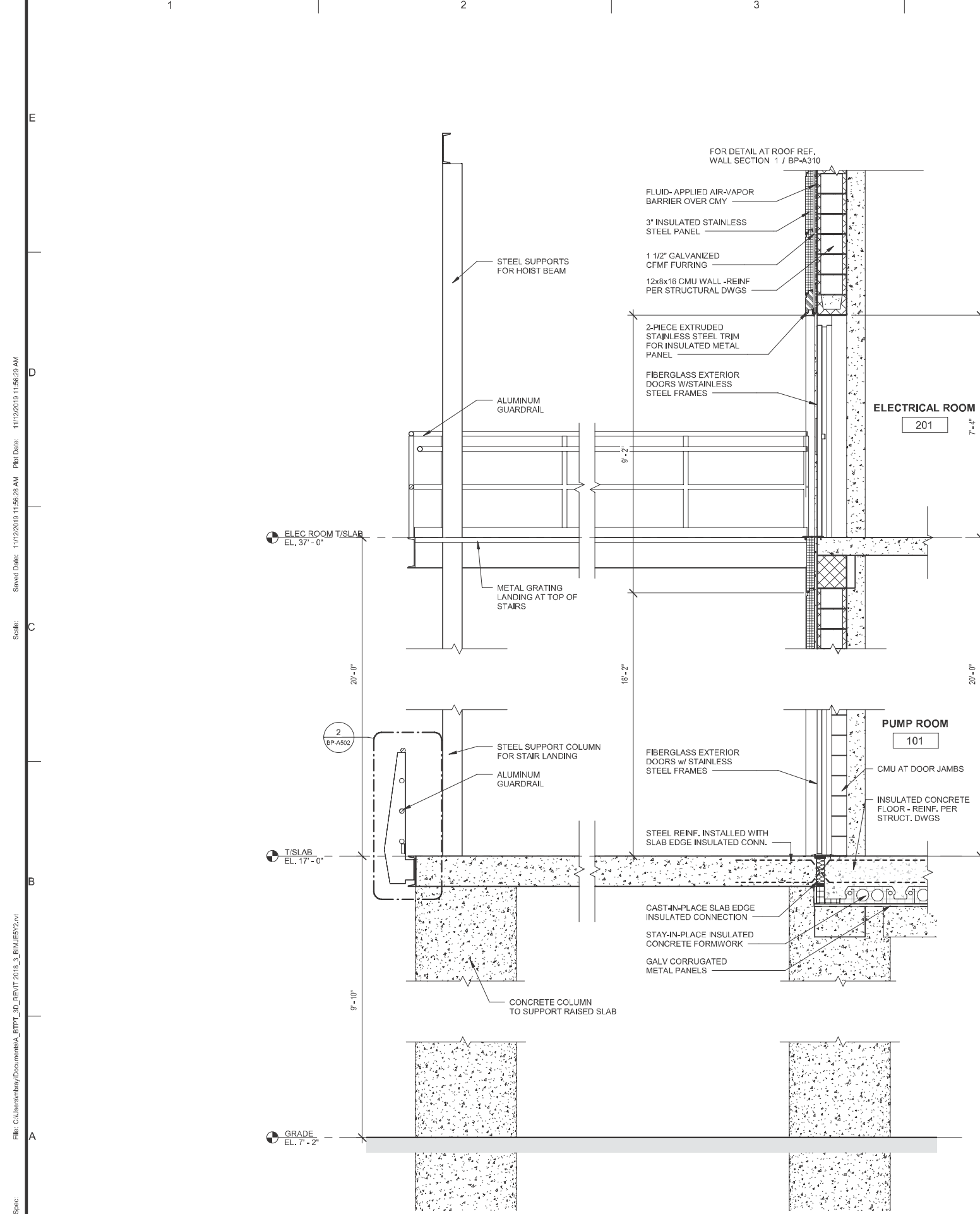
**1 BUILDING SECTION 1**  
BP-A301 1/8" = 1'-0"



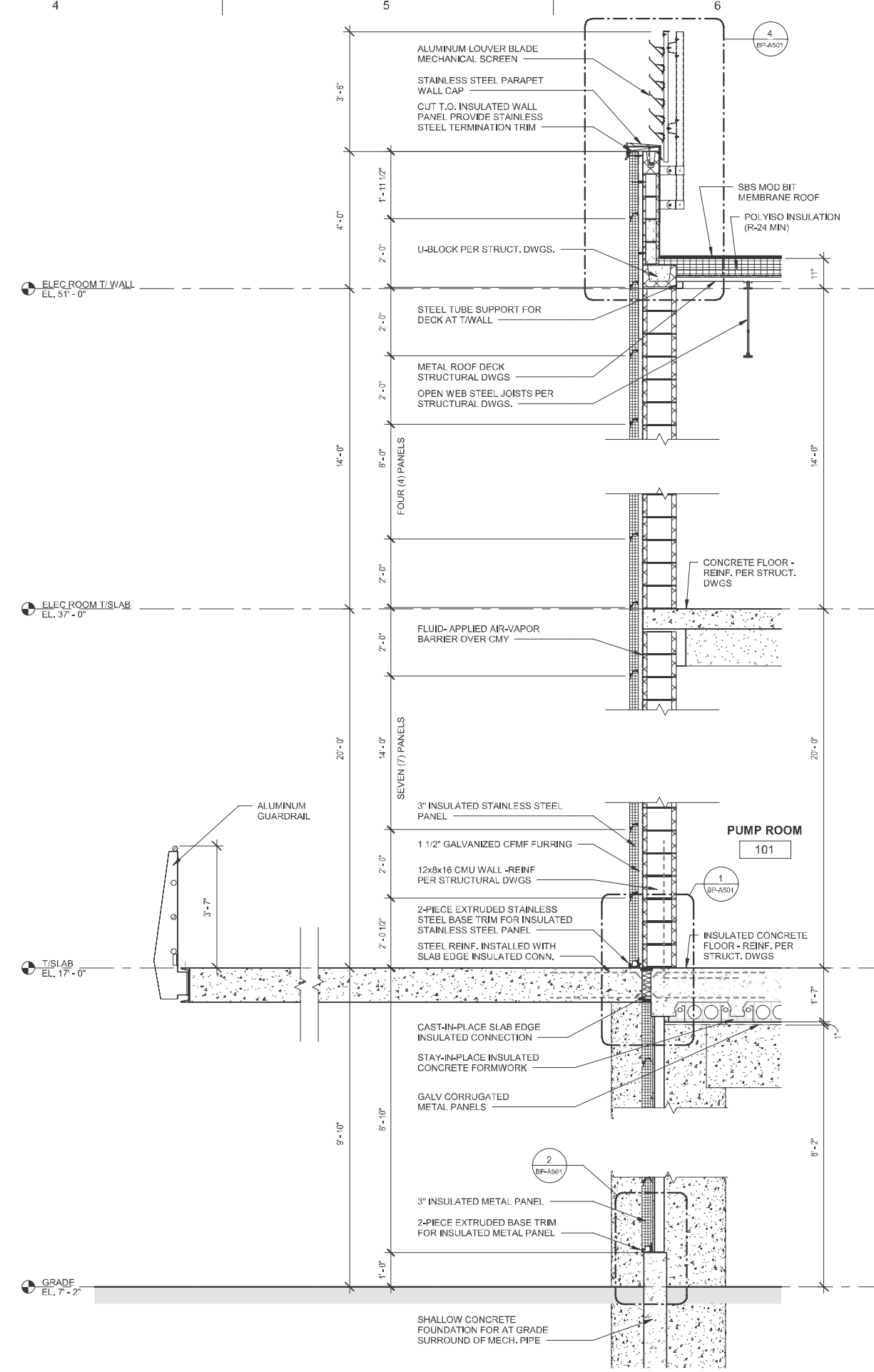
**2 KEY PLAN - LEVEL 1**  
BP-A301 1/32" = 1'-0"



User: Spec: File: C:\Users\mbray\Documents\A\BPTT\_3D\_REVIT 2019\_3\_BIM\BPTT2.v1t Saved Date: 11/12/2019 11:56:27 AM Plo Date: 11/12/2019 11:56:27 AM Scale: 11/12/2019 11:56:27 AM



2 WALL SECTION - NORTH WALL @ DOORS  
BP-A310 1/2" = 1'-0"



1 WALL SECTION - NORTH WALL  
BP-A310 1/2" = 1'-0"



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED BY THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**  
DATE: OCTOBER 2019  
PROJECT NO.: PW-35B116-03CR  
FILE NAME: BP-A310  
DESIGNED BY: M. BRAY  
DRAWN BY: M. BRAY  
CHECKED BY: S. ARCHAMBAULT

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

**BAY PARK PROGRAM  
MANAGEMENT EFFLUENT  
DIVERSION PUMPING  
STATION**

SHEET TITLE  
**BAY PARK  
EFFLUENT DIVERSION  
PUMP STATION  
ARCHITECTURE  
WALL SECTIONS**

SCALE: AS NOTED

BP-A310  
PAGE 26

1  
2  
3  
4  
5  
6

E  
D  
C  
B  
A

FOR DETAIL AT ROOF REF.  
WALL SECTION 1 / BP-A310

FLUID-APPLIED AIR-VAPOR  
BARRIER OVER CMY

3" INSULATED STAINLESS  
STEEL PANEL

1 1/2" GALVANIZED  
CFMF FURRING

12x8x16 CMU WALL-REINF  
PER STRUCTURAL DWGS

2-PIECE EXTRUDED  
STAINLESS STEEL TRIM  
FOR INSULATED METAL  
PANEL

FIBERGLASS EXTERIOR  
DOORS W/STAINLESS  
STEEL FRAMES

STEEL SUPPORTS  
FOR HOIST BEAM

ALUMINUM  
GUARDRAIL

METAL GRATING  
LANDING AT TOP OF  
STAIRS

ELEC ROOM T/WALL  
EL. 51'-0"

ELEC ROOM T/SLAB  
EL. 37'-0"

20'-0"

18'-2"

7'-4"

ELECTRICAL ROOM  
201

2  
BP-A502

STEEL SUPPORT COLUMN  
FOR STAIR LANDING

ALUMINUM  
GUARDRAIL

FIBERGLASS EXTERIOR  
DOORS w/ STAINLESS  
STEEL FRAMES

CMU AT DOOR JAMBS

INSULATED CONCRETE  
FLOOR - REINF. PER  
STRUCT. DWGS

STEEL REINF. INSTALLED WITH  
SLAB EDGE INSULATED CONN.

CAST-IN-PLACE SLAB EDGE  
INSULATED CONNECTION

STAY-IN-PLACE INSULATED  
CONCRETE FORMWORK

GALV CORRUGATED  
METAL PANELS

CONCRETE COLUMN  
TO SUPPORT RAISED SLAB

T/SLAB  
EL. 17'-0"

9'-10"

9'-10"

GRADE  
EL. 7'-2"

ALUMINUM LOUVER BLADE  
MECHANICAL SCREEN

STAINLESS STEEL PARAPET  
WALL CAP

CUT T.O. INSULATED WALL  
PANEL PROVIDE STAINLESS  
STEEL TERMINATION TRIM

4  
BP-A501

SBS MOD BIT  
MEMBRANE ROOF

POLYISO INSULATION  
(R-24 MIN)

U-BLOCK PER STRUCT. DWGS.

11'-11 1/2"

3'-6"

4'-0"

2'-0"

2'-0"

2'-0"

2'-0"

2'-0"

14'-0"

8'-0"

FOUR (4) PANELS

11"

ELEC ROOM T/WALL  
EL. 51'-0"

ELEC ROOM T/SLAB  
EL. 37'-0"

20'-0"

14'-0"

2'-0"

2'-0"

2'-0"

2'-0"

2'-0"

2'-0"

2'-0"

FLUID-APPLIED AIR-VAPOR  
BARRIER OVER CMY

CONCRETE FLOOR -  
REINF. PER STRUCT.  
DWGS

20'-0"

2'-0"

SEVEN (7) PANELS

14'-0"

20'-0"

20'-0"

3" INSULATED STAINLESS  
STEEL  
PANEL

1 1/2" GALVANIZED CFMF  
FURRING

12x8x16 CMU WALL-REINF  
PER STRUCTURAL DWGS

2-PIECE EXTRUDED STAINLESS  
STEEL BASE TRIM FOR INSULATED  
STAINLESS STEEL PANEL

STEEL REINF. INSTALLED WITH  
SLAB EDGE INSULATED CONN.

1  
BP-A501

INSULATED CONCRETE  
FLOOR - REINF. PER  
STRUCT. DWGS

3'-7"

2'-0 1/2"

20'-0"

14'-0"

8'-10"

9'-10"

11'-7"

8'-2"

8'-10"

9'-10"

8'-2"

CAST-IN-PLACE SLAB EDGE  
INSULATED CONNECTION

STAY-IN-PLACE INSULATED  
CONCRETE FORMWORK

GALV CORRUGATED  
METAL PANELS

2  
BP-A501

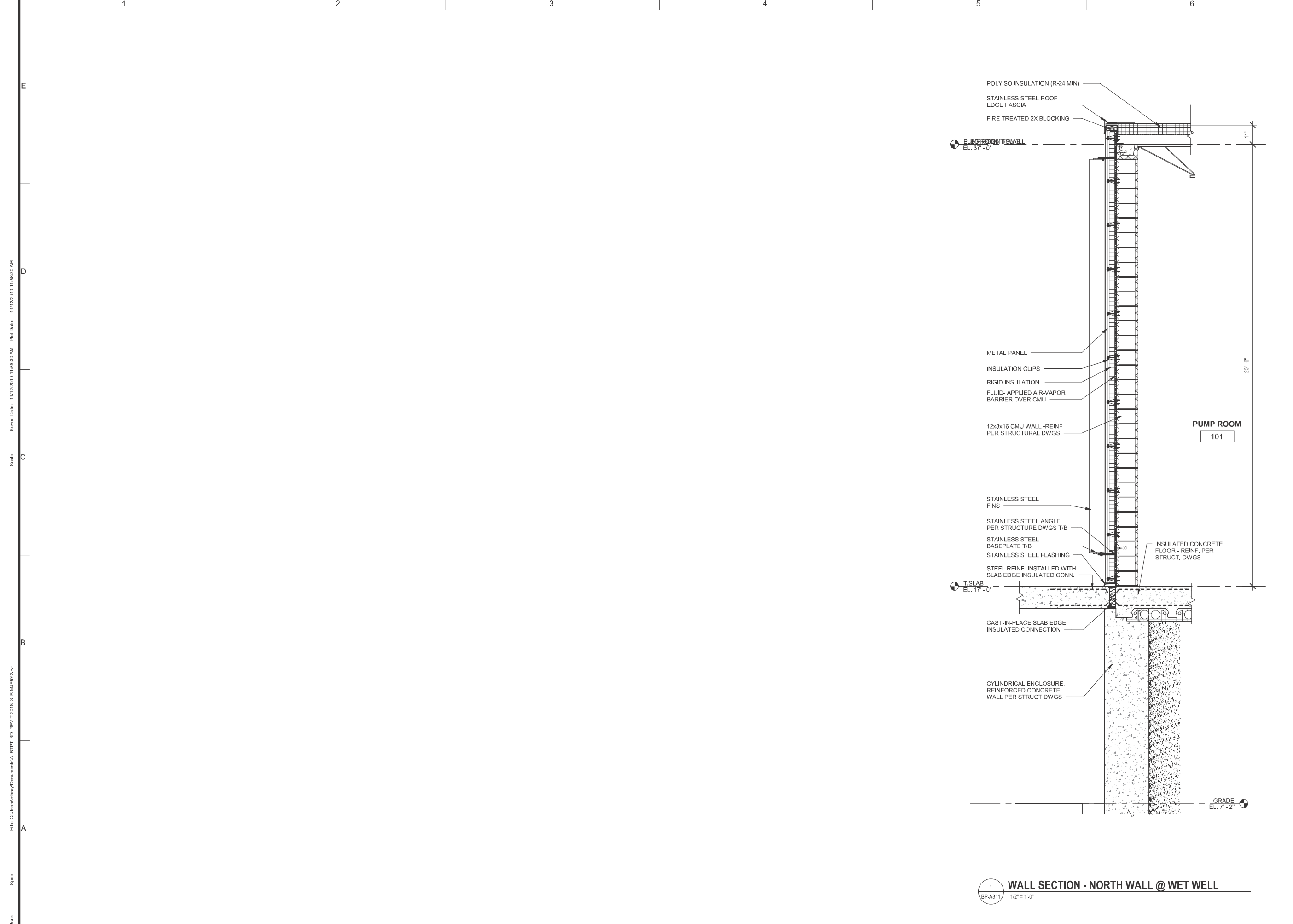
3" INSULATED METAL PANEL

2-PIECE EXTRUDED BASE TRIM  
FOR INSULATED METAL PANEL

1'-0"

SHALLOW CONCRETE  
FOUNDATION FOR AT GRADE  
SURROUND OF MECH. PIPE

GRADE  
EL. 7'-2"



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED BY THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON COEXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE: OCTOBER 2019

PROJECT NO.: PW-35B116-03CR

FILE NAME: BP-A311

DESIGNED BY: M. BRAY

DRAWN BY: M. BRAY

CHECKED BY: S. ARCHAMBAULT

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

BAY PARK PROGRAM  
MANAGEMENT EFFLUENT  
DIVERSION PUMPING  
STATION

SHEET TITLE

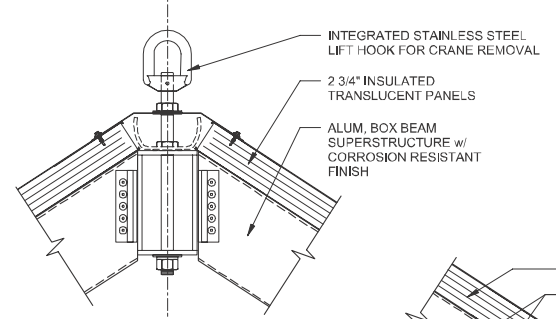
BAY PARK  
EFFLUENT DIVERSION  
PUMP STATION  
ARCHITECTURE  
WALL SECTIONS

SCALE:  
AS NOTED

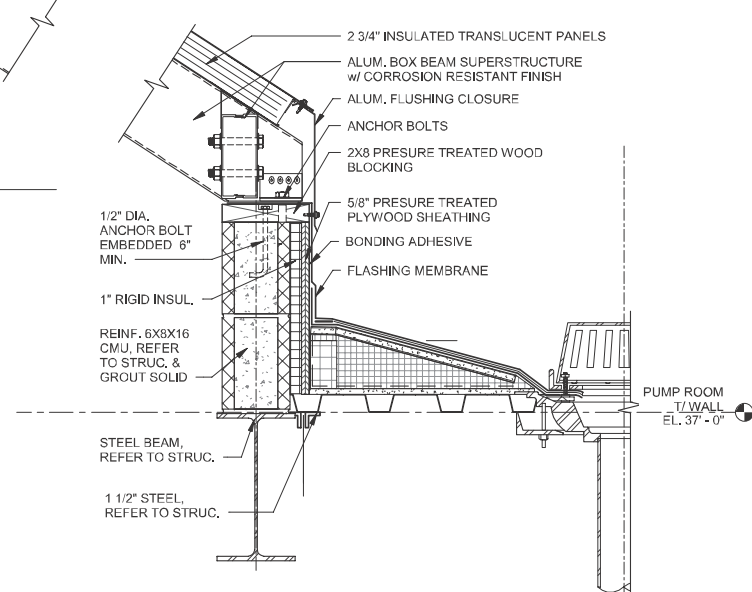
BP-A311  
PAGE 27

1 WALL SECTION - NORTH WALL @ WET WELL  
BP-A311 1/2" = 1'-0"

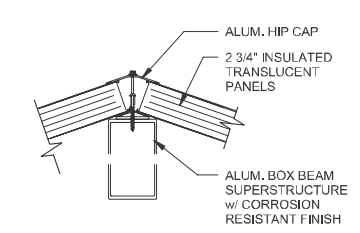
User: Spec: File: C:\Users\mbray\Documents\A\BPTT\_3D\_REVIT 2019\_3\_BIM\B52.v1i  
 Scale: Saved Date: 11/12/2019 11:56:30 AM Pbi Date: 11/12/2019 11:56:30 AM



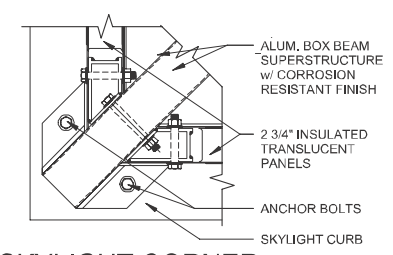
**SKYLIGHT PEAK DETAIL**  
 4  
 BP-A401 1/12" = 1'-0"



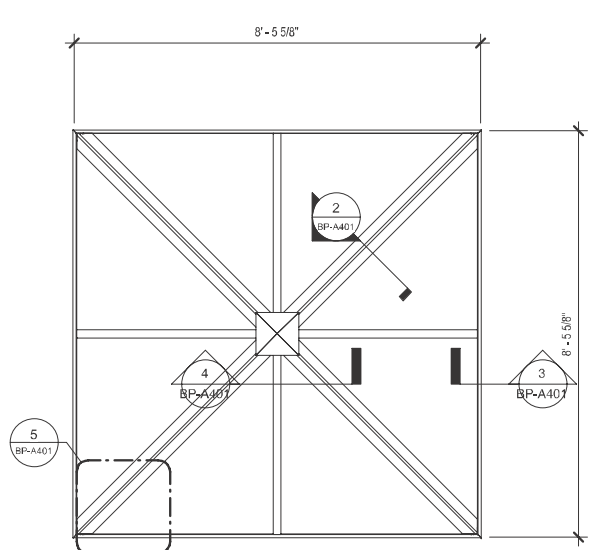
**SKYLIGHT CURB DETAIL**  
 3  
 BP-A401 1/12" = 1'-0"



**SKYLIGHT HIP DETAIL**  
 2  
 BP-A401 1/12" = 1'-0"



**SKYLIGHT CORNER PLAN DETAIL**  
 5  
 BP-A401 1/12" = 1'-0"



**ENLARGED SKYLIGHT PLAN**  
 1  
 BP-A401 1/2" = 1'-0"



**PRELIMINARY  
 NOT FOR  
 CONSTRUCTION**  
 DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED BY THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON COEXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
 CRITERIA PACKAGE**  
 DATE: OCTOBER 2019  
 PROJECT NO.: PW-35B116-03CR  
 FILE NAME: BP-A401  
 DESIGNED BY: M. BRAY  
 DRAWN BY: F. WONG  
 CHECKED BY: S. ARCHAMBAULT

NASSAU COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC  
 WORKS  
 BAY PARK PROGRAM  
 MANAGEMENT EFFLUENT  
 DIVERSION PUMPING  
 STATION

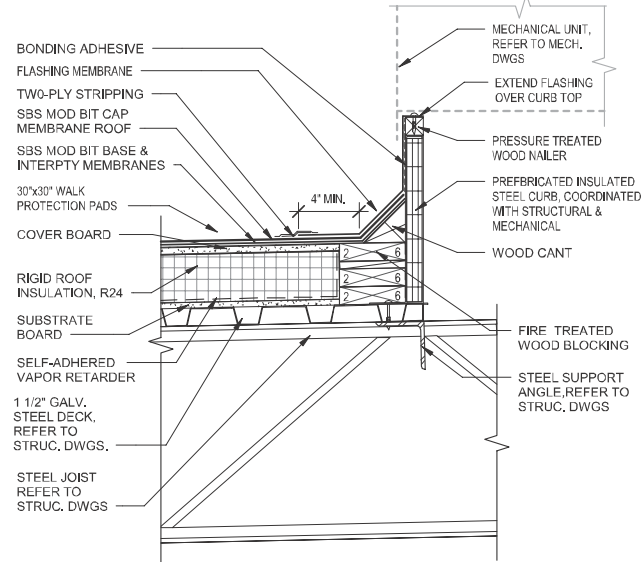
**SHEET TITLE**  
 BAY PARK  
 EFFLUENT DIVERSION  
 PUMP STATION  
 ENLARGED PLANS

SCALE: AS NOTED

BP-A401  
 PAGE 28

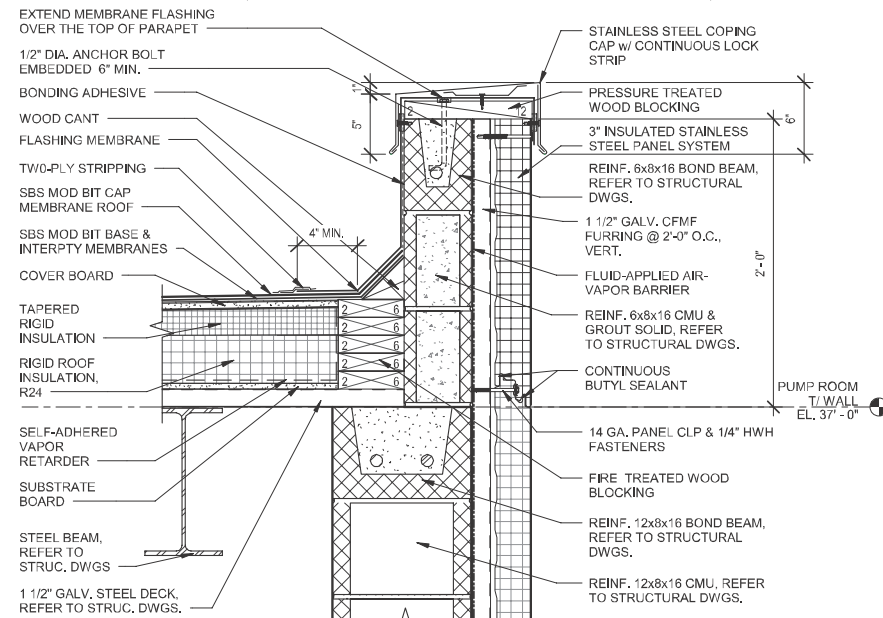
User: Spec: File: C:\Users\mbray\Documents\A\BPTT\_3D\_REVIT 2019\_3\_BIM\BPTT2.v1t Scale: 11/12/2019 11:56:32 AM Plo Date: 11/12/2019 11:56:32 AM Saved Date: 11/12/2019 11:56:32 AM





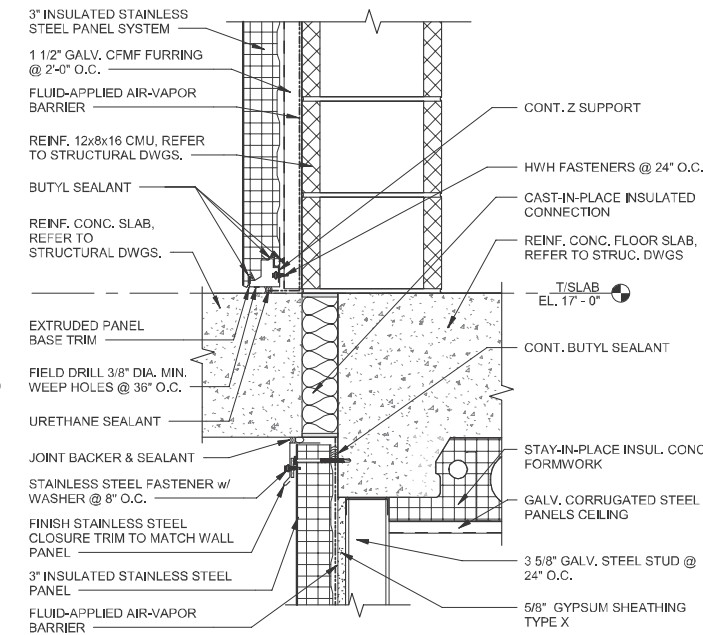
5 MECHANICAL CURB DETAIL

BP-A501 1 1/2" = 1'-0"



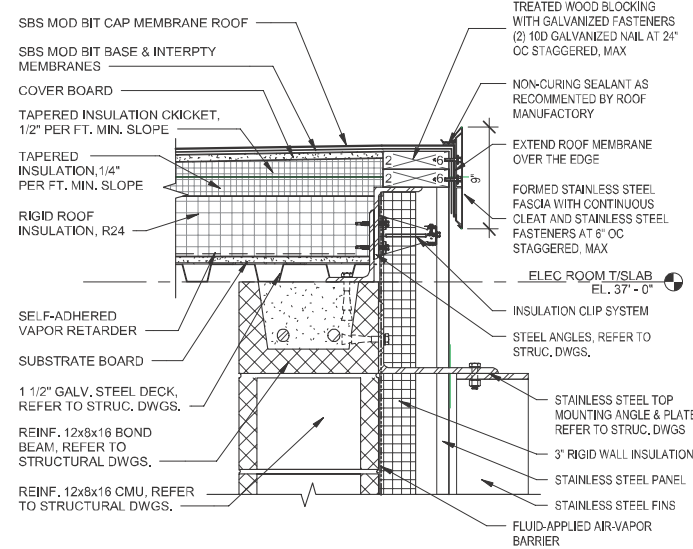
3 PARAPET DETAIL

BP-A501 1 1/2" = 1'-0"



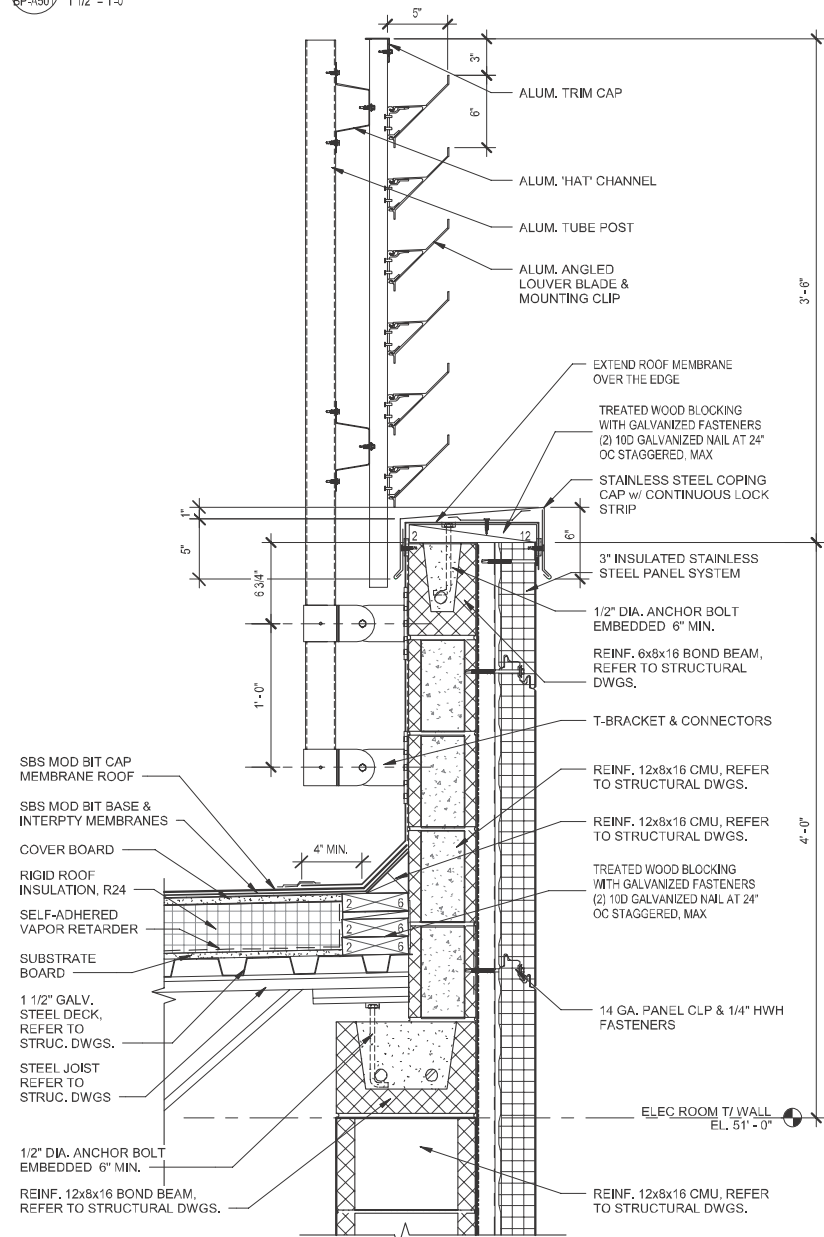
1 WALL/ DECK DETAIL

BP-A501 1 1/2" = 1'-0"



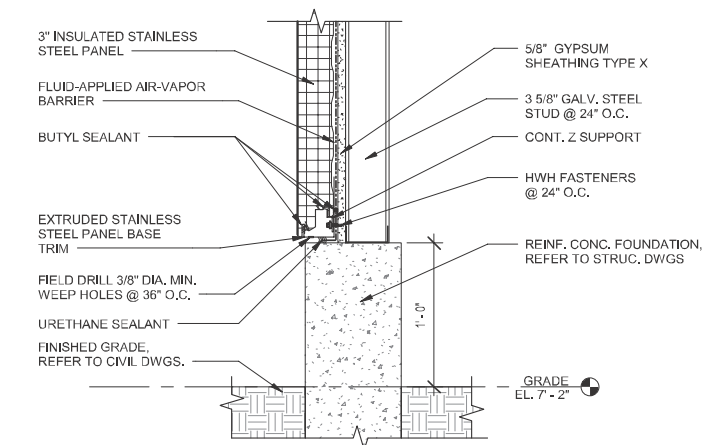
6 FASCIA DETAIL

BP-A501 1 1/2" = 1'-0"



4 PARAPET DETAIL

BP-A501 1 1/2" = 1'-0"



2 EXT. WALL BASE DETAIL

BP-A501 1 1/2" = 1'-0"



PRELIMINARY  
NOT FOR  
CONSTRUCTION  
DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED BY THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

FINAL DESIGN CRITERIA PACKAGE			
DATE:	OCTOBER 2019		
PROJECT NO.:	PW-35B116-03CR		
FILE NAME:	BP-A501		
DESIGNED BY:	M. Bray		
DRAWN BY:	F. Wong		
CHECKED BY:	S. Archambault		

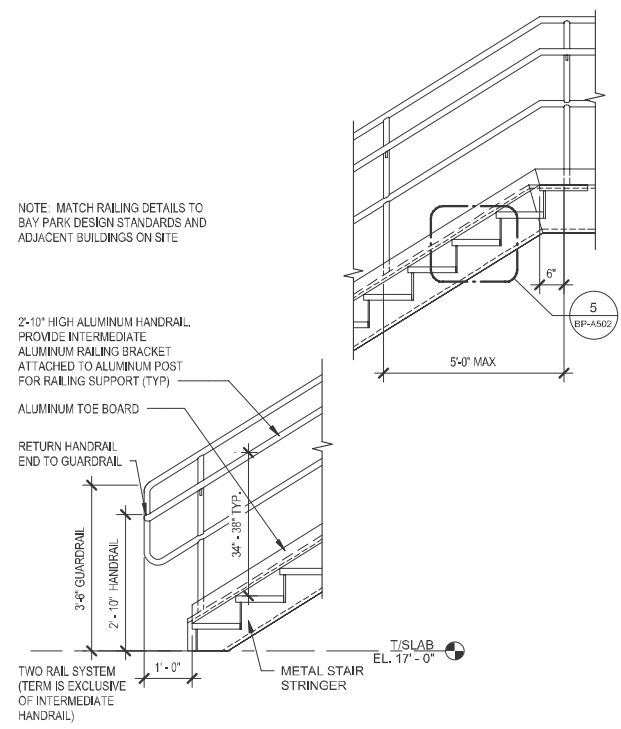
NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS  
BAY PARK PROGRAM  
MANAGEMENT EFFLUENT  
DIVERSION PUMPING  
STATION

SHEET TITLE  
BAY PARK  
EFFLUENT DIVERSION  
PUMP STATION  
DETAILS

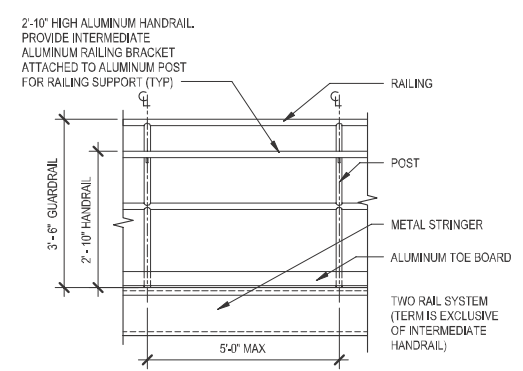
SCALE: AS NOTED  
BP-A501  
PAGE 29

User: Spec: C:\Users\mbray\Documents\A\BPTT\_3D\_REVIT\_2019\_3\_BIM\BPTT2.v1t Scale: 11/12/2019 11:56:35 AM Plo Date: 11/12/2019 11:56:35 AM

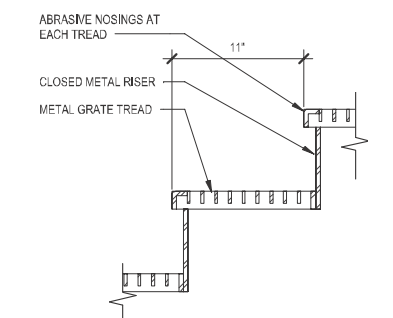
User: Spec: File: C:\Users\mbray\Documents\A\BPTT\_3D\_REVIT 2019\_3\_mbray.rvt  
 Scale: Saved Date: 12/02/2019 10:55:27 AM Pbi Date: 12/06/2019 10:56:27 AM  
 E  
 D  
 C  
 B  
 A



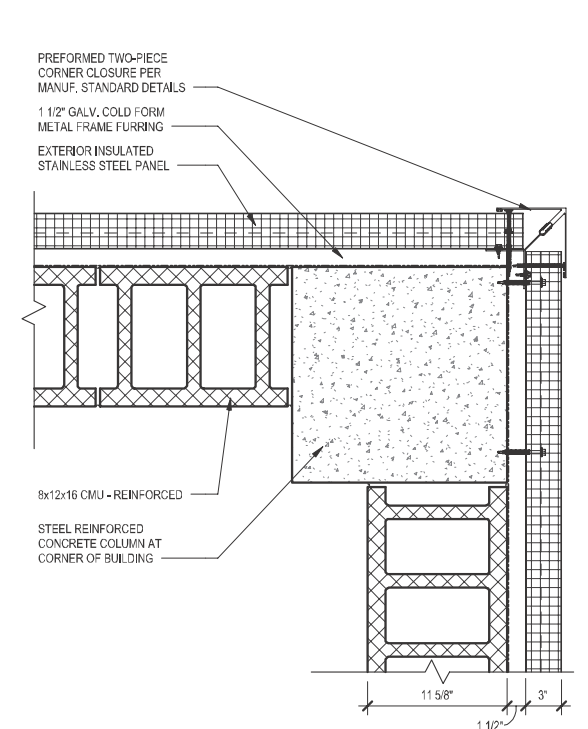
**3 STAIR RAILING END DETAIL**  
 1/2" = 1'-0"



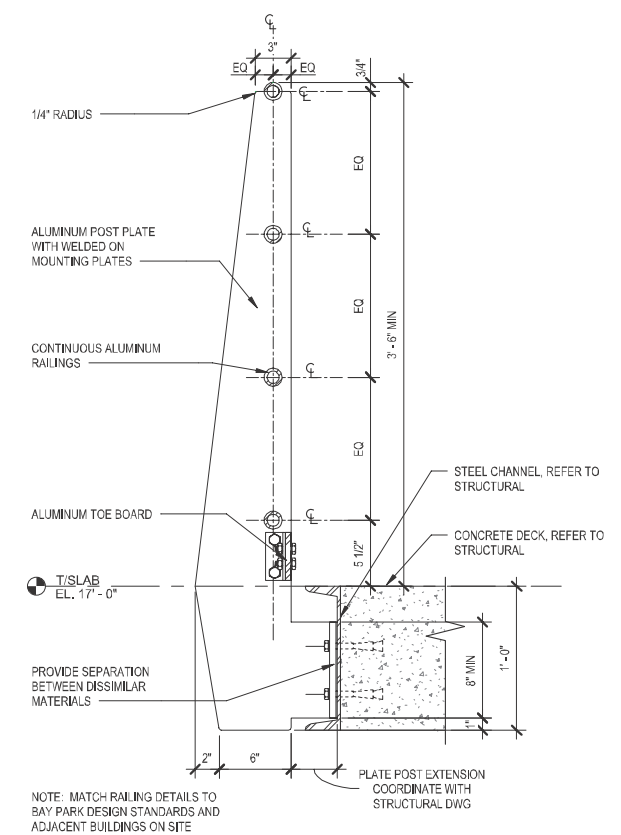
**4 STAIR LANDING RAILING DETAIL**  
 1/2" = 1'-0"



**5 STAIR TREAD/RISER DETAIL**  
 1 1/2" = 1'-0"



**1 HORIZ. SECTION - CORNER**  
 1 1/2" = 1'-0"



**2 RAIL SYSTEM SIDE MOUNT DETAIL**  
 1 1/2" = 1'-0"



**PRELIMINARY  
 NOT FOR  
 CONSTRUCTION**  
 DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED BY THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON COSTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
 CRITERIA PACKAGE**  
 DATE: OCTOBER 2019  
 PROJECT NO.: PW-35B116-03CR  
 FILE NAME: BP-A502  
 DESIGNED BY: M. BRAY  
 DRAWN BY: F. WONG  
 CHECKED BY: S. ARCHAMBAULT

NASSAU COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC  
 WORKS  
 BAY PARK PROGRAM  
 MANAGEMENT EFFLUENT  
 DIVERSION PUMPING  
 STATION

**SHEET TITLE**  
 BAY PARK  
 EFFLUENT DIVERSION  
 PUMP STATION  
 DETAILS

SCALE: AS NOTED





User:ABDA-Shera-AUCS-MDC File:C:\BMS\WSP-FB-US-P4-Q2\WSP-ALLABID\DWG\BP-M001.DWG Scale:1:1 SheetDate:2/10/2019 Time:15:19 Plot Date:Abd, Al, 03/25/2020, 14:15 Layout:BP-M001

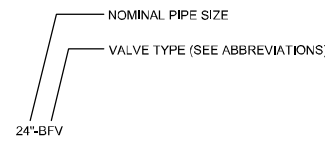
**GENERAL MECHANICAL NOTES (APPLY TO ALL MECHANICAL DRAWINGS)**

- REFER TO APPLICABLE TECHNICAL SPECIFICATIONS FOR MATERIALS AND INSTALLATION REQUIREMENTS.
- COUPLINGS SHOWN ON THE DRAWINGS ARE REQUIRED FOR REMOVAL OF EQUIPMENT AND PIPING BY THE OWNER AFTER COMPLETION OF THE WORK. ADDITIONAL COUPLINGS MAY BE REQUIRED TO FACILITATE INSTALLATION BY THE DESIGN/BUILD CONTRACTOR.
- PROVIDE HARNESSING FOR ALL COUPLINGS, UNLESS OTHERWISE INDICATED.
- IN GENERAL, SMALL DIAMETER PIPING (I.E., 2-1/2" AND SMALLER) IS SHOWN FOR GENERAL LAYOUT PURPOSES ONLY, AND IS NOT INTENDED TO SHOW EXACT ALIGNMENT, NUMBER OF FITTINGS, VALVES AND APPURTENANCES. ALL PIPING, FITTINGS AND APPURTENANCES SHALL BE PROVIDED AS SPECIFIED OR SHOWN ON APPLICABLE DRAWINGS AND DIAGRAMS, AND AS REQUIRED FOR A COMPLETE INSTALLATION. ACTUAL PIPE ROUTING SHALL BE DETERMINED BY THE DESIGN/BUILD CONTRACTOR SUBJECT TO REVIEW BY THE OWNER'S AGENT, AND SHALL BE COORDINATED TO AVOID CONFLICTS WITH EXISTING AND NEW WORK OF ELECTRICAL, HVAC AND PLUMBING SYSTEMS, AND SO AS NOT TO INTERFERE WITH ACCESS TO OR OPERATION OF ANY OTHER PIPE, VALVE OR EQUIPMENT. SMALL DIAMETER PIPING SYSTEMS SHALL BE LAID OUT AND INSTALLED IN AN ORGANIZED, NEAT AND WORKMANLIKE MANNER.
- PIPE SIZES SHOWN MAY NOT BE THE SAME AS SIZES OF CONNECTIONS TO THE EQUIPMENT SUPPLIED. PROVIDE ALL NECESSARY REDUCERS, BUSHINGS AND APPURTENANCES REQUIRED TO MAKE EQUIPMENT CONNECTIONS.
- REPAIR INTERIOR AND EXTERIOR PIPE COATINGS DAMAGED DURING INSTALLATION.
- DESIGN/BUILD CONTRACTOR SHALL RETAIN THE SERVICES OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK TO DESIGN PIPE SUPPORT SYSTEMS FOR ALL PIPING PROVIDED UNDER THIS PROJECT. PIPE SUPPORT SYSTEMS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS BASED ON THE PIPING LAYOUT DESIGNED AND PROVIDED BY THE DESIGN/BUILD CONTRACTOR AND AS APPROVED BY THE OWNER'S AGENT.
- SEE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, HVAC AND PLUMBING DRAWINGS FOR RELATED INSTALLATIONS TO BE PERFORMED UNDER THIS PROJECT AND COORDINATE ALL INSTALLATION WORK.
- PROVIDE NEW GASKETS AND HARDWARE AT ALL CONNECTIONS BETWEEN NEW AND EXISTING PIPING AND AT ALL PIPE JOINTS DISASSEMBLED IN CONNECTION WITH THIS PROJECT.

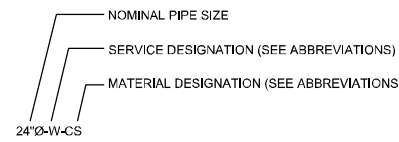
**GENERAL DEMOLITION NOTES:**

- SEE STRUCTURAL, ELECTRICAL, HVAC AND PLUMBING DRAWINGS FOR RELATED REMOVALS AND DEMOLITION TO BE PERFORMED UNDER THIS PROJECT AND COORDINATE ALL DEMOLITION WORK.
- ALL DEMOLITION SHOWN ON DRAWINGS SHALL BE PERFORMED BY THE DESIGN/BUILD CONTRACTOR.
- ALL WALL, FLOOR AND ROOF OPENINGS RESULTING FROM DEMOLITION WORK SHALL BE PROPERLY SEALED. FIREWALL PENETRATIONS SHALL BE SEALED TO MAINTAIN APPROPRIATE FIRE RATING. BELOW GRADE AND WET AREA PENETRATIONS SHALL BE SEALED WATERTIGHT.
- UNLESS OTHERWISE NOTED OR SPECIFIED, ALL MATERIALS REMOVED OR DEMOLISHED UNDER THIS PROJECT SHALL BE LEGALLY DISPOSED OF OFF-SITE BY THE DESIGN/BUILD CONTRACTOR, WHERE SPECIFICALLY REQUESTED, CERTAIN ITEMS OF EQUIPMENT SHALL BE TURNED OVER TO OWNER.
- SCHEDULE AND SEQUENCE OF REMOVAL AND DEMOLITION WORK SHALL BE IN ACCORDANCE WITH CONSTRAINTS STIPULATED IN THE FINAL DESIGN CRITERIA DOCUMENTS.
- UNLESS OTHERWISE NOTED, FOR EXISTING MECHANICAL EQUIPMENT INDICATED FOR REMOVAL, REMOVAL SHALL INCLUDE DEMOLITION OF EXISTING ANCHOR BOLTS AND CONCRETE BASE PAD, AND REPAIR OF CONCRETE FLOOR TO MATCH CONDITION OF SURROUNDING FLOOR.
- UNLESS OTHERWISE NOTED, REMOVAL OF EXISTING INTERIOR PIPING SYSTEMS SHALL INCLUDE REMOVAL OF INSULATION, HANGERS, SUPPORTS, ANCHORS, FIXTURES AND ACCESSORIES. ANY EMBEDDED HARDWARE OR ANCHORS SHALL BE CUT FLUSH WITH WALL, FLOOR OR SLAB SURFACE AND PATCHED APPROPRIATELY.
- OWNER'S AGENT WILL IDENTIFY EQUIPMENT TO BE SALVAGED. CONTRACTOR SHALL REMOVE AND PROTECT EQUIPMENT TO BE SALVAGED AND DELIVER TO OWNER. DESIGN/BUILD CONTRACTOR SHALL SECURE AND STORE EQUIPMENT UNTIL OWNER CAN TAKE DELIVERY.
- FOR CLARITY, EXISTING FACILITIES AND PIPING ARE GENERALLY SHOWN LIGHT. NEW FACILITIES AND PIPING ARE GENERALLY SHOWN HEAVY.
- THE DESIGN/BUILD CONTRACTORS SHALL COORDINATE EXISTING EQUIPMENT REMOVALS TO ENSURE THAT ALL EQUIPMENT IS ELECTRICALLY DISCONNECTED PRIOR TO DEMOLITION.

**TYPICAL VALVE IDENTIFICATION**



**TYPICAL PIPING IDENTIFICATION**



**LEGEND**

- POINT OF CONNECTION
- POINT OF DISCONNECTION
- EXISTING PIPING, EQUIPMENT & FEATURES
- EXISTING PIPING, EQUIPMENT & FEATURES TO BE REMOVED
- NEW PIPING, EQUIPMENT & FEATURES

**MECHANICAL ABBREVIATIONS**

**PIPING SERVICE IDENTIFICATION**

CA	COMPRESSED AIR
D/W	DRAIN/WASTE
DCW	DOMESTIC COLD WATER
EFF	PLANT EFFLUENT
HPA	HIGH PRESSURE AIR
HW	HOT WATER, POTABLE
INF	PLANT INFLEUNT
LPA	LOW PRESSURE AIR
NPW	NON-POTABLE WATER
PW	PLANT WATER
RW	RAW WATER
SAN	SANITARY SEWER
SAW	SAMPLE WATER
ST	STORM SEWER
TW	TEMPERED WATER
V	VENT
WW	WASTE WATER

**VALVES**

AVV	AIR/VACUUM VALVE
ARV	AIR RELEASE VALVE
BV	BALL VALVE
BFV	BUTTERFLY VALVE
CV	CHECK VALVE
GV	GATE VALVE
NV	NEEDLE VALVE
PDCV	PUMP DISCHARGE CONTROL VALVE
PV	PINCH VALVE
PRV	PRESSURE REGULATING VALVE
PRLV	PRESSURE RELIEF VALVE
PLV	PLUG VALVE
RPZ	REDUCED PRESSURE ZONE/BACKFLOW PREVENTOR
WSAV	WELL SERVICE AIR VALVE

**MISCELLANEOUS**

B/	BOTTOM OF
BI	BLACK IRON
BOP	BOTTOM OF PIPE
CI	CAST IRON
CONC.	CONCRETE OR CONCRETE
CORP.	CORPORATION STOP
CL	CENTERLINE
CS	CARBON STEEL
CU	COPPER
DI	DUCTILE IRON
DWGS.	DRAWINGS
ECC.	ECCENTRIC
EL.	ELEVATION
ELEC.	ELECTRIC OR ELECTRICAL
EXIST.	EXISTING
FLG.	FLANGED
FRP	FIBERGLASS REINFORCED PLASTIC
FOT	FLAT ON TOP
GALV.	GALVANIZED
HP	HIGH POINT
ID	INTERNAL DIAMETER
INV.	INVERT
LP	LOW POINT
MH	STORM MANHOLE
MJ	MECHANICAL JOINT
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
O.C.	ON CENTER
O/F	OVERFLOW
PE	PLAIN END
PO	PUSH ON
RED.	REDUCING OR REDUCER
RJ	RESTRAINED JOINT
SG	SLUICE GATE OR SLIDE GATE
SS	STAINLESS STEEL (PIPING)
ST. STL.	STAINLESS STEEL (OTHER THAN PIPING)
SMH	SANITARY MANHOLE
TYP.	TYPICAL
T/	TOP OF
T-O-L	THREAD-O-LET
TURB.	TURBIDITY
W/	WITH
W-O-L	WELD-O-LET



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

FINAL DESIGN CRITERIA PACKAGE			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	BP-M001		
DESIGNED BY:	A. STEINHAUER		
DRAWN BY:	T. LARAMAY		
CHECKED BY:	A. STEINHAUER		

NASSAU COUNTY, NEW YORK  
**DEPARTMENT OF PUBLIC WORKS**

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

BAY PARK  
EFFLUENT DIVERSION  
PUMP STATION

GENERAL NOTES, SYMBOLS  
& ABBREVIATIONS

SCALE: NOT TO SCALE

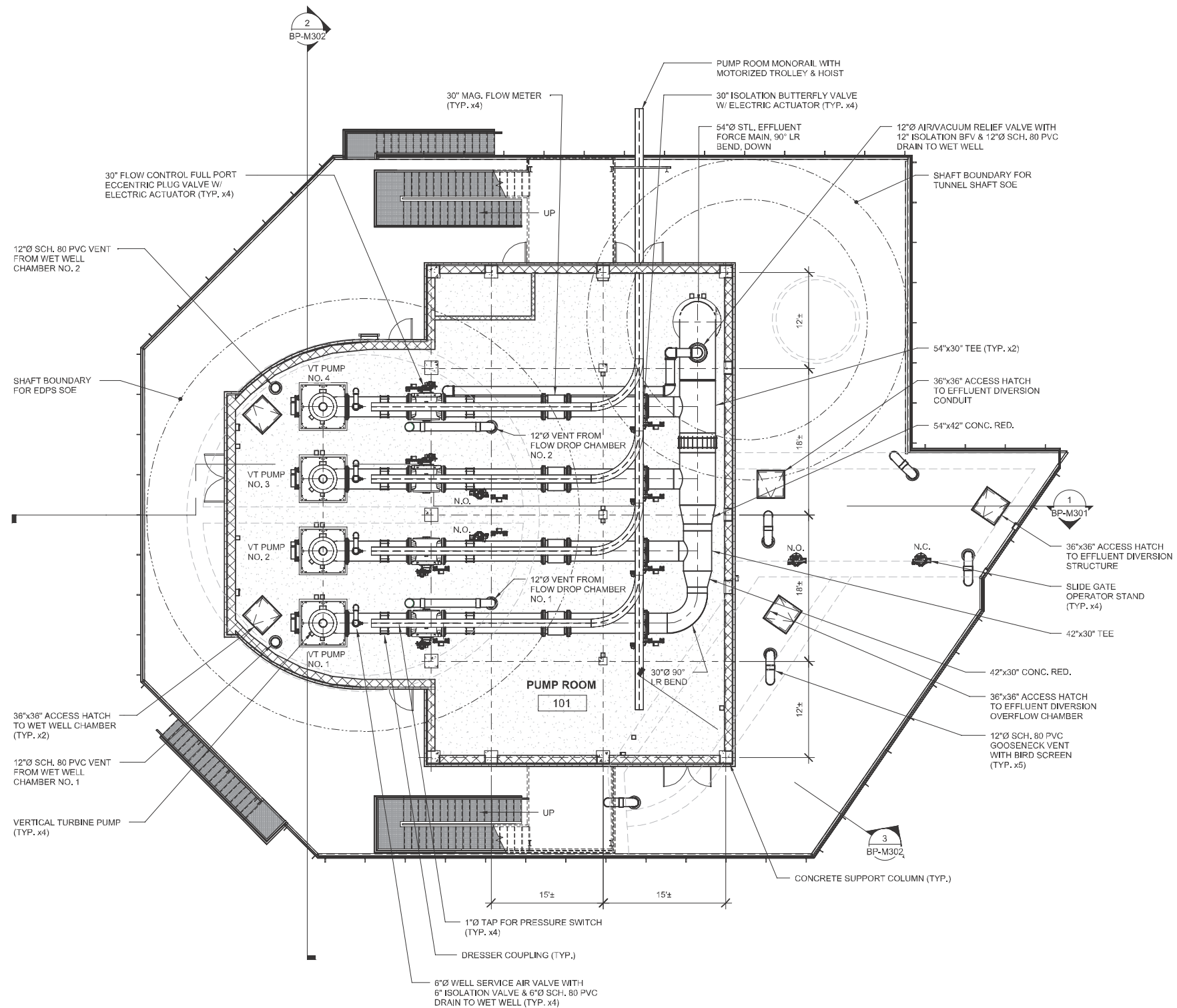
BP-M001

PAGE 32



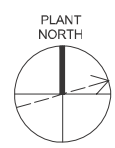


User: Spec: File: C:\Users\laramay\OneDrive\Documents\BAYPARK\3D-REV\17-2018\_Laramay\3D.dwg Plot Date: 12/05/2019 2:42:19 PM Scale: AS SHOWN Sheet Date: 12/05/2019 2:42:19 PM



**EFFLUENT DIVERSION PUMPING STATION  
 (VERTICAL TURBINE PUMPS IN CIRCULAR WET WELL)  
 ELEVATION 23'-0" PLAN**

1/8" = 1'-0" 0 4 8 16'



**PRELIMINARY  
 NOT FOR  
 CONSTRUCTION**  
 DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
 CRITERIA PACKAGE**

DATE: OCTOBER 2019  
 PROJECT NO.: PW-S3B116-03CR  
 FILE NAME: BP-M102  
 DESIGNED BY: L. REID  
 DRAWN BY: T. LARAMAY  
 CHECKED BY: A. STEINHAUER

NASSAU COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC  
 WORKS

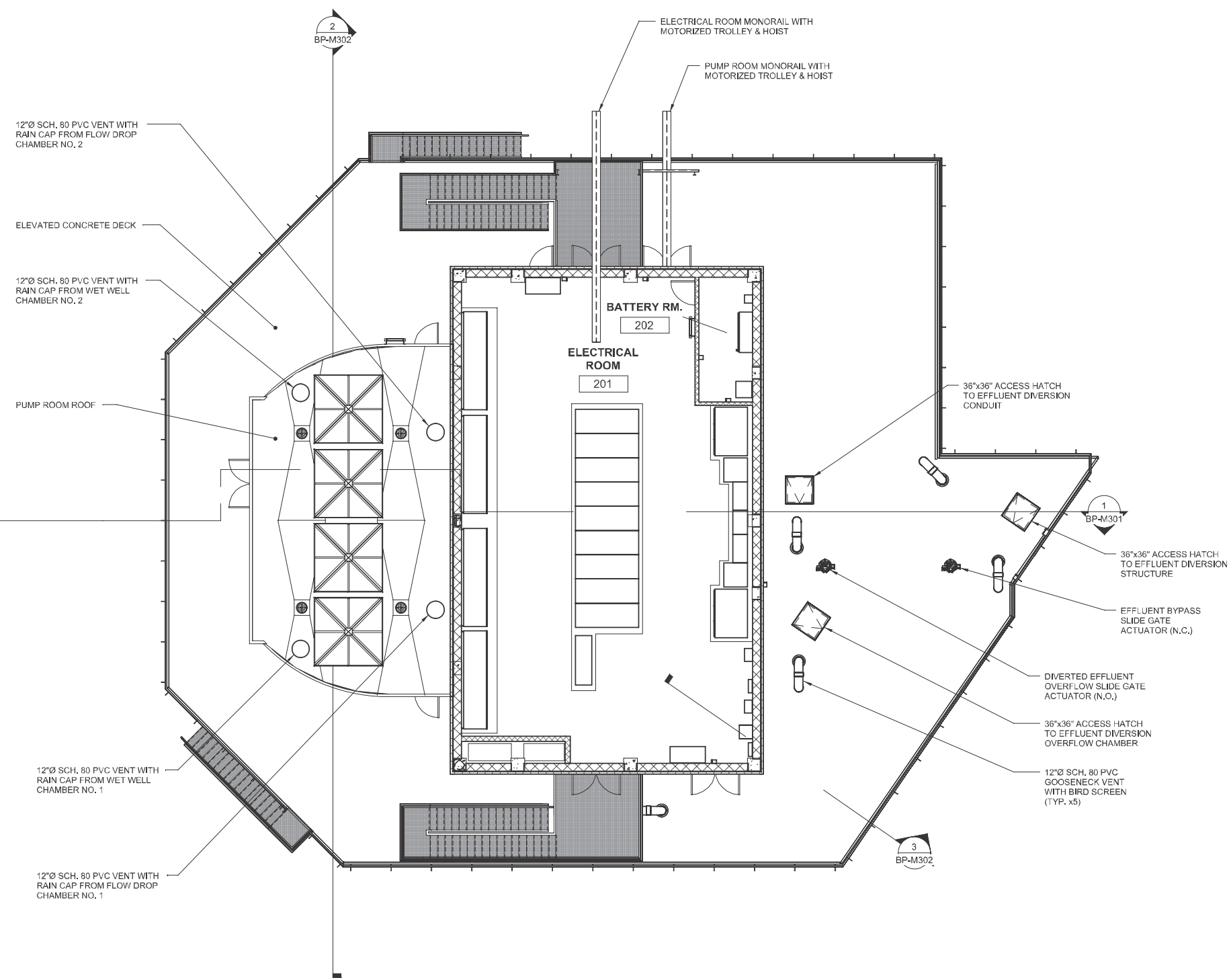
**OCEAN OUTFALL  
 EFFLUENT DIVERSION  
 PROJECT**

SHEET TITLE  
 BAY PARK  
 EFFLUENT DIVERSION  
 PUMP STATION  
 EFFLUENT DIVERSION  
 PUMPING STATION  
 ELEVATION 23'-0" PLAN

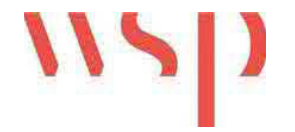
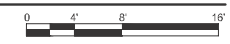
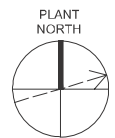
SCALE:  
 AS SHOWN

**BP-M102**  
 PAGE 34

User: Spec: File: C:\Users\laramay\OneDrive\Documents\BAYPARK\3D-REV\17-2019\_LamJaramay.dwg Plot Date: 12/05/2019 2:42:22 PM Scale: AS SHOWN Sheet Date: 12/05/2019 2:42:22 PM



**EFFLUENT DIVERSION PUMPING STATION  
 (VERTICAL TURBINE PUMPS IN CIRCULAR WET WELL)  
 ELEVATION 41'-0" PLAN**



**PRELIMINARY  
 NOT FOR  
 CONSTRUCTION**  
 DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
 CRITERIA PACKAGE**

DATE: OCTOBER 2019  
 PROJECT NO.: PW-S3B116-03CR  
 FILE NAME: BP-M103  
 DESIGNED BY: L. REID  
 DRAWN BY: T. LARAMAY  
 CHECKED BY: A. STEINHAEUER

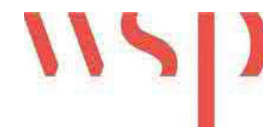
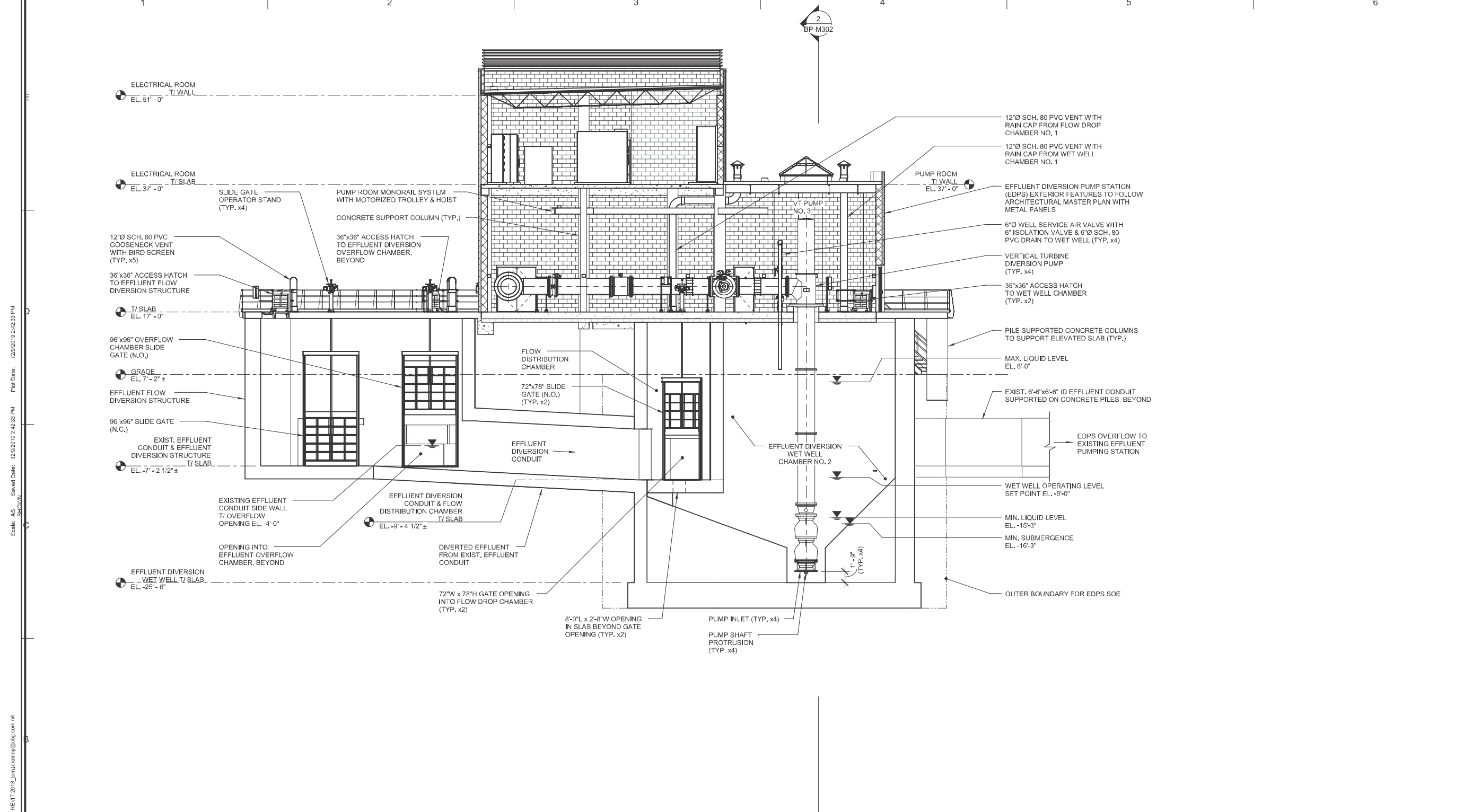
NASSAU COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC  
 WORKS

**OCEAN OUTFALL  
 EFFLUENT DIVERSION  
 PROJECT**

SHEET TITLE  
 BAY PARK  
 EFFLUENT DIVERSION  
 PUMP STATION  
 EFFLUENT DIVERSION  
 PUMPING STATION  
 ELEVATION 41'-0" PLAN

SCALE: AS SHOWN

**BP-M103**  
 PAGE 35



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
 DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE: OCTOBER 2019  
 PROJECT NO.: PW-S3B116-03CR  
 FILE NAME: BP-M301  
 DESIGNED BY: L. REID  
 DRAWN BY: T. LARAMAY  
 CHECKED BY: A. STEINHAEUER

NASSAU COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC  
 WORKS

OCEAN OUTFALL  
 EFFLUENT DIVERSION  
 PROJECT

SHEET TITLE

BAY PARK  
 EFFLUENT DIVERSION  
 PUMP STATION  
 EFFLUENT DIVERSION  
 PUMPING STATION  
 SECTION 1

SCALE:  
 AS SHOWN

BP-M301  
 PAGE 36

User: Spec: File: C:\Users\laramay\Documents\116\116-03\REVIT\2019\BP-M301.dwg Plot Date: 12/10/2019 2:42:33 PM Scale: AS SHOWN Sheet Date: 12/10/2019 2:42:33 PM



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE: OCTOBER 2019  
PROJECT NO.: PW-S3B116-03CR  
FILE NAME: BP-M302  
DESIGNED BY: L. REID  
DRAWN BY: T. LARAMAY  
CHECKED BY: A. STEINHAUER

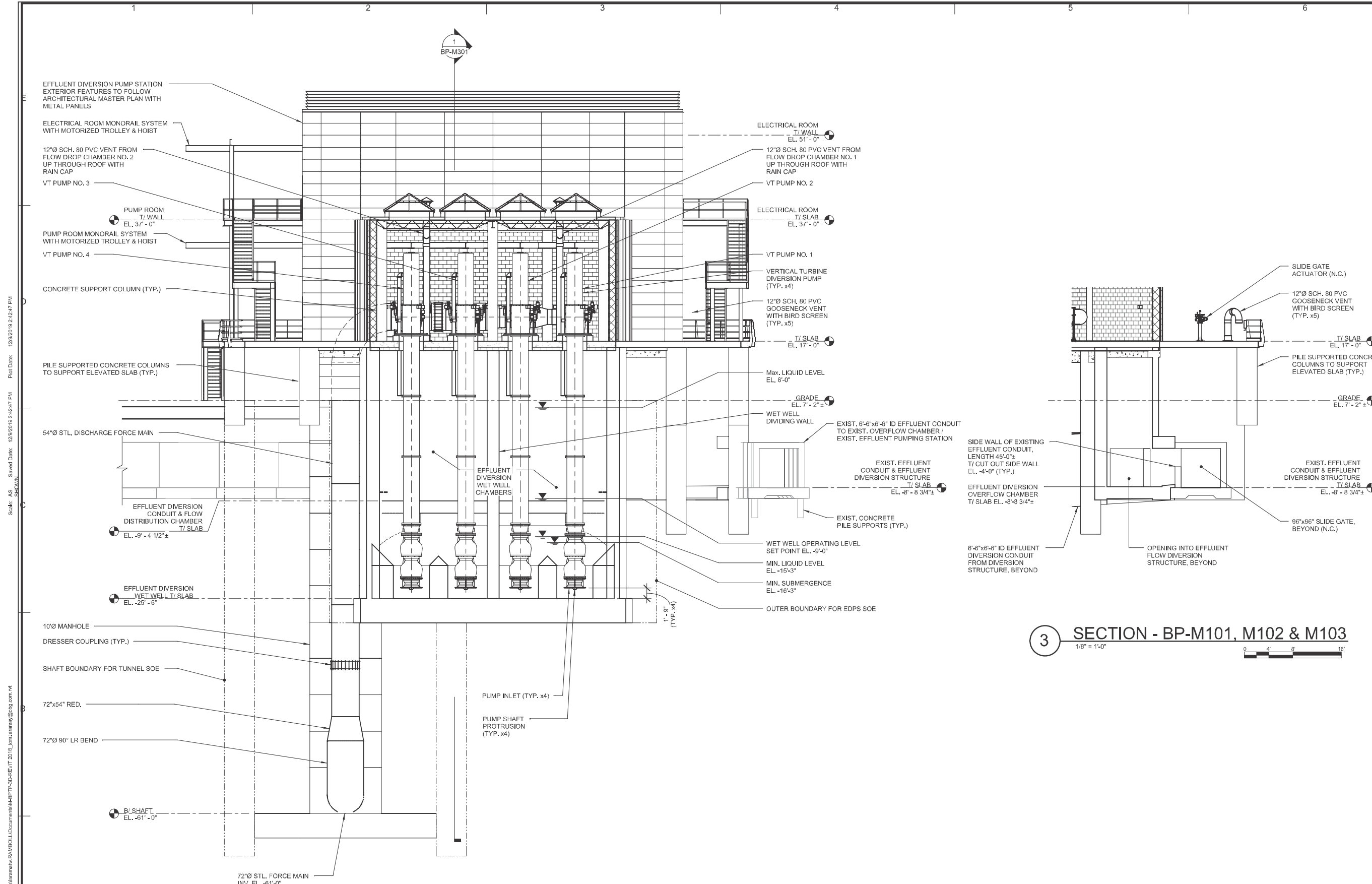
NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE  
BAY PARK  
EFFLUENT DIVERSION  
PUMP STATION  
EFFLUENT DIVERSION  
PUMPING STATION  
SECTIONS 2 AND 3

SCALE:  
AS SHOWN

BP-M302  
PAGE 37



Scale: AS SHOWN  
 Plot Date: 12/20/2019 2:42:47 PM  
 User: C:\Users\laramay\Documents\BAYPARK\BP-M302\BP-M302.dwg

File: C:\Users\laramay\Documents\BAYPARK\BP-M302\BP-M302.dwg

User:

**2 SECTION - BP-M101, M102 & M103**  
1/8" = 1'-0"

**3 SECTION - BP-M101, M102 & M103**  
1/8" = 1'-0"



# HEATING, VENTILATING, & AIR CONDITIONING LEGEND AND ABBREVIATIONS

ABBREVIATIONS		ABBREVIATIONS (CONTINUED)		ABBREVIATIONS (CONTINUED)		DUCTWORK LEGEND		DUCTWORK LEGEND (CONT.)	
ABV	ABOVE	FRE	FIRE RATED ENCLOSURE	SD	SMOKE DAMPER		DUCT SPLIT WITH SPLIT SIZE		SIDE, TOP OR BOTTOM DUCT ACCESS DOOR
AC	AIR CONDITIONING UNIT	FSD	COMBINATION FIRE AND SMOKE DAMPER	SF	SUPPLY FAN		RADIUS ELBOW		ACOUSTIC LINING IN DUCT (DUCT SIZE NOTED INDICATES INSIDE DIMENSIONS)
ACC	AIR COOLED CONDENSER	FT	FEET	SED	SEE ELECTRICAL DRAWINGS		ELBOW WITH TURNING VANES		RECTANGULAR OR SQUARE TO ROUND OR OVAL TRANSITION
ACD	AUTOMATIC CONTROL DAMPER	FTR	FIN TUBE RADIATOR	SENS	SENSIBLE		RECTANGULAR BRANCH TAKEOFF WITH BALANCING DAMPER		FLEXIBLE CONNECTION
AD	ACCESS DOOR	GLY	GLYCOL	SM	SHEET METAL		RECTANGULAR SUPPLY DUCT UP		FLEXIBLE DUCT
AHU	AIR HANDLING UNIT	GPM	GALLONS PER MINUTE	SP	STATIC PRESSURE		RECTANGULAR SUPPLY DUCT DOWN		VOLUME DAMPER IN DUCT
AL	ACOUSTICAL LINING	GX	GENERAL EXHAUST	STP	STAIR PRESSURIZATION		RECTANGULAR RETURN OR EXHAUST DUCT UP		AUTOMATIC LOUVER DAMPER
ALD	AUTOMATIC LOUVER DAMPER	H	HUMIDIFIER	SQFT	SQUARE FEET		RECTANGULAR RETURN OR EXHAUST DUCT DOWN		FUSIBLE LINK FIRE DAMPER WITH DUCT ACCESS DOOR
ARCH	ARCHITECTURAL	HC	HEATING COIL	ST	SOUND TRAP		ROUND DUCT, UP		SMOKE DAMPER WITH DUCT ACCESS DOOR
ATC	AUTOMATIC TEMPERATURE CONTROL	HTP	HEAT PUMP	SX	SMOKE EXHAUST		ROUND DUCT, DOWN		COMBINATION FIRE AND SMOKE DAMPER WITH DUCT ACCESS DOOR
B	BOILER	HP	HORSE POWER	TF	TRANSFER FAN		BEAM PENETRATION		BACK DRAFT DAMPER WITH DUCT ACCESS DOOR
BD	BALANCING DAMPER	HR	HOUR	TRD	TRANSFER DUCT		SLOPING RISE IN DUCTWORK		LINEAR DIFFUSER
BDD	BACK DRAFT DAMPER	HRU	HEAT RECOVERY UNIT	TRG	TRANSFER GRILLE		SLOPING DROP IN DUCTWORK		LINEAR DIFFUSER WITH PLENUM
BMS	BUILDING MANAGEMENT SYSTEM	HTW	HEATWHEEL	TX	TOILET EXHAUST		DUCT SIZE (CLEAR INSIDE DIMENSION) FIRST FIGURE INDICATES PLAN SIZE		CEILING DIFFUSER 1-WAY BLOW   3-WAY BLOW 2-WAY BLOW   4-WAY BLOW
BO	BLANK OFF	HV	HEATING AND VENTILATING UNIT	TX	TOILET EXHAUST		ROUND DUCT DIAMETER SIZE (CLEAR INSIDE DIMENSION)		CEILING DIFFUSER WITH FLEXIBLE DUCT CONNECTION
BHP	BRAKE HORSE POWER	HW	HOT WATER	TYP	TYPICAL		OVAL DUCT SIZE		RETURN REGISTER OR GRILLE
BTU	BRITISH THERMAL UNIT	HX	HEAT EXCHANGER	UFAD	UNDERFLOOR AIR DISTRIBUTION				RETURN REGISTER OR GRILLE WITH FLEXIBLE DUCT CONNECTION
CA	COMPRESSED AIR	ID	INSIDE DIMENSION	UH	UNIT HEATER				TRANSFER GRILLES ON BOTH SIDES OF PARTITION OR WALL (SIZE)
CC	COOLING COIL	IDEC	INDIRECT EVAPORATIVE COOLER	UON	UNLESS OTHERWISE NOTED				WALL OPENING ABOVE HUNG CEILING (SIZE)
CD	CEILING DIFFUSER	KW	KILOWATT	VAR	VARIABLE				SUPPLY REGISTER WITH AIR OUTLET DEVICE DESIGNATION
CF	CAP FOR FUTURE	KWH	KILOWATT HOURS	VAV	VARIABLE AIR VOLUME				RETURN OR EXHAUST REGISTER OR GRILLE WITH AIR INLET DEVICE DESIGNATION
CFM	CUBIC FEET PER MINUTE	KX	KITCHEN EXHAUST	VD	VOLUME DAMPER				
CG	CEILING GRILLE	KRX	KITCHEN RANGE HOOD EXHAUST (RESIDENTIAL)	VFD	VARIABLE FREQUENCY DRIVE				
CH	CHILLER	LAT	LEAVING AIR TEMPERATURE	VX	VAPOR HOOD EXHAUST				
CO	CLEAN OUT	LBS	POUNDS	W/	WITH				
COMP	COMPRESSOR	LD	LINEAR DIFFUSER	WB	WET BULB				
CONV	CONVECTOR	LRA	LOCK ROTOR AMPS	WG	WATER GAUGE				
CR	CEILING REGISTER	LWS	LOUVER WITH WIRE SCREEN	WMS	WIRE MESH SCREEN				
CT	COOLING TOWER	LWT	LEAVING WATER TEMPERATURE	WO-SIZE	WALL OPENING-(SIZE)				
CU	CONDENSING UNIT	MAT	MIXED AIR TEMPERATURE	X	EXISTING TO BE REMOVED				
CW	CONDENSER WATER	MAX	MAXIMUM	300	CUBIC FEET OF AIR PER MINUTE OR GALLONS PER MINUTE				
DB	DRY BULB	MBH	THOUSAND BTU PER HOUR						
DEC	DIRECT EVAPORATIVE COOLER	MCC	MOTOR CONTROL CENTER						
DF	DUCT FURNACE	MFG	MANUFACTURER						
DIA	DIAMETER	MFS	MAXIMUM FUSE SIZE						
DN	DOWN	MIN	MINIMUM						
DRX	CLOTHES DRYER EXHAUST	MUA	MAKE UP AIR UNIT						
DX	DIRECT EXPANSION	MOCP	MAXIMUM OVERCURRENT PROTECTION						
E	EXISTING TO REMAIN	N	NEW						
EA	EXHAUST AIR	NC	NORMALLY CLOSED						
EAT	ENTERING AIR TEMPERATURE	NFA	NET FREE AREA						
ECH	ELECTRIC CABINET HEATER	NIC	NOT IN THIS CONTRACT						
EC	EVAPORATIVE CONDENSER	NK	NECK						
EDB	ENTERING DRY BULB	NO	NORMALLY OPEN						
EF	EXHAUST FAN	NTS	NOT TO SCALE						
EFF	EFFICIENCY	OAI	OUTSIDE AIR INTAKE						
ELEV	ELEVATOR	OBD	OPPOSED BLADE DAMPER						
EHC	ELECTRIC HEATING COIL	OD	OUTSIDE DIMENSION						
EUH	ELECTRIC UNIT HEATER	P	PUMP						
EWB	ENTERING WET BULB	PD	PRESSURE DROP						
EWT	ENTERING WATER TEMPERATURE	PHC	PRE-HEAT COIL						
°F	DEGREES FAHRENHEIT	PHX	PLATE HEAT EXCHANGER						
F	FILTER	PRV	PRESSURE REDUCING VALVE						
FBO	FURNISHED BY OTHERS	PSI	POUNDS PER SQUARE INCH (GAUGE)						
FC	FLEXIBLE CONNECTION (DUCT OR PIPE)	PSIA	POUNDS PER SQUARE INCH ABSOLUTE						
FCC	FIRE CONTROL CENTER	R	EXISTING TO BE RELOCATED						
FCU	FAN COIL UNIT	RA	RETURN AIR						
FD	FUSIBLE LINK FIRE DAMPER WITH DUCT ACCESS DOOR	RF	RETURN FAN						
FHX	FUME HOOD EXHAUST	RH	RELATIVE HUMIDITY						
FLR	FLOOR	RHC	REHEAT COIL						
FLA	FULL LOAD AMPS	RPM	REVOLUTIONS PER MINUTE						
F.O.	FLAT OVAL DUCTWORK	SA	SUPPLY AIR						
FPI	FINS PER INCH	SAD	SEE ARCHITECTURAL DRAWINGS						

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**  
DATE: APRIL 2020  
PROJECT NO.: FW-S3B116-03CR  
FILE NAME: M-001  
DESIGNED BY: ML  
DRAWN BY: ML  
CHECKED BY: SC

NASSAU COUNTY, NEW YORK  
**DEPARTMENT OF PUBLIC  
WORKS**  
OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE  
BAY PARK FORCE MAIN  
BAY PARK EFFLUENT  
DIVERSION PUMP STATION  
HVAC DRAWING LIST,  
LEGEND AND  
ABBREVIATIONS

SCALE: NOT TO SCALE

BP-MH001  
PAGE 38

User:ABDA-Sheet:HVAC-NSMCD File:C:\BMS\WSP-FB-05\FM\WSP\_ALABID\DWG\BMS\BMS\01\_DWG\_Scale:1/4"=1'-0" Plot Date: 04/20/2020 Time: 1:45 Plot Path: \\wsp\plotters\wsp\BMS\BMS\01\_DWG\_Scale:1/4"=1'-0" Plot Date: 04/20/2020 Time: 1:45 Plot Path: \\wsp\plotters\wsp\BMS\BMS\01\_DWG\_Scale:1/4"=1'-0"



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED BY THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	OCTOBER 2019		
PROJECT NO.:	PW-S3B116-03CR		
APPROVED BY:	SC		
DESIGNED BY:	ML		
DRAWN BY:	ML		
CHECKED BY:	SC		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

BAY PARK EFFLUENT DIVERSION  
PUMP STATION

HVAC PUMP ROOM NEW  
WORK PLAN

SCALE:  
AS NOTED

BP-MH201  
PAGE 39

1 2 3 4 5 6

E

D

C

B

A

1 2 3 4 5 6 7 8 9

A

B

C

D

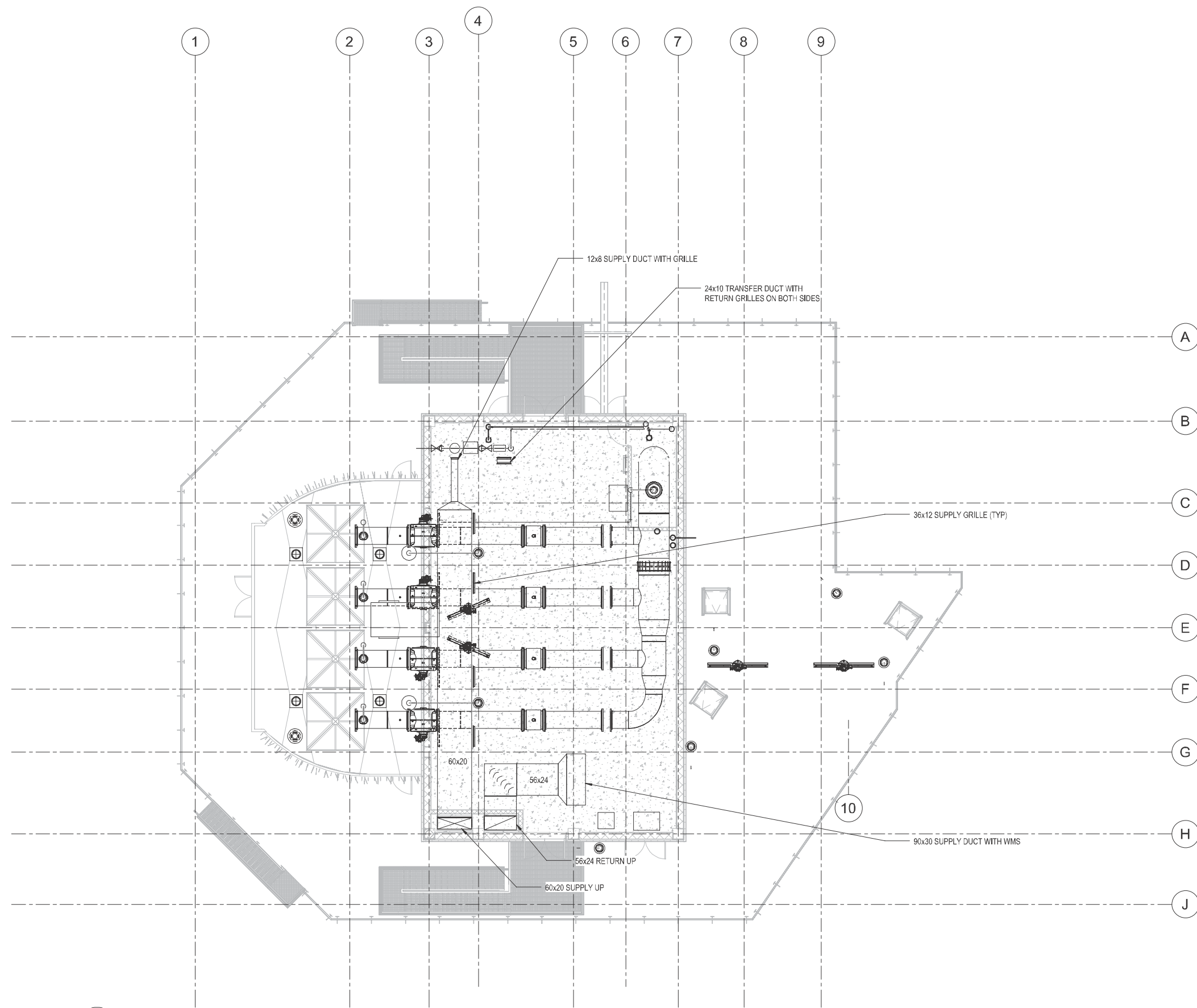
E

F

G

H

J



1 **PUMP ROOM**  
Scale: 1/8" = 1'-0"

Spec: User: C:\Users\Public\Documents\M&B\BP-3D-BUILDING-REVIT\2018\_mh\mha\mha\BP-MH201.rvt  
Saved Date: 10/22/2019 5:04:32 PM  
Plo Date: 10/22/2019 5:04:32 PM  
Scale: 1/8" = 1'-0"





**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED BY THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE: OCTOBER 2019  
 PROJECT NO.: PW-S3B116-03CR  
 APPROVED BY: SC  
 DESIGNED BY: ML  
 DRAWN BY: ML  
 CHECKED BY: SC

NASSAU COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC  
 WORKS

OCEAN OUTFALL  
 EFFLUENT DIVERSION  
 PROJECT

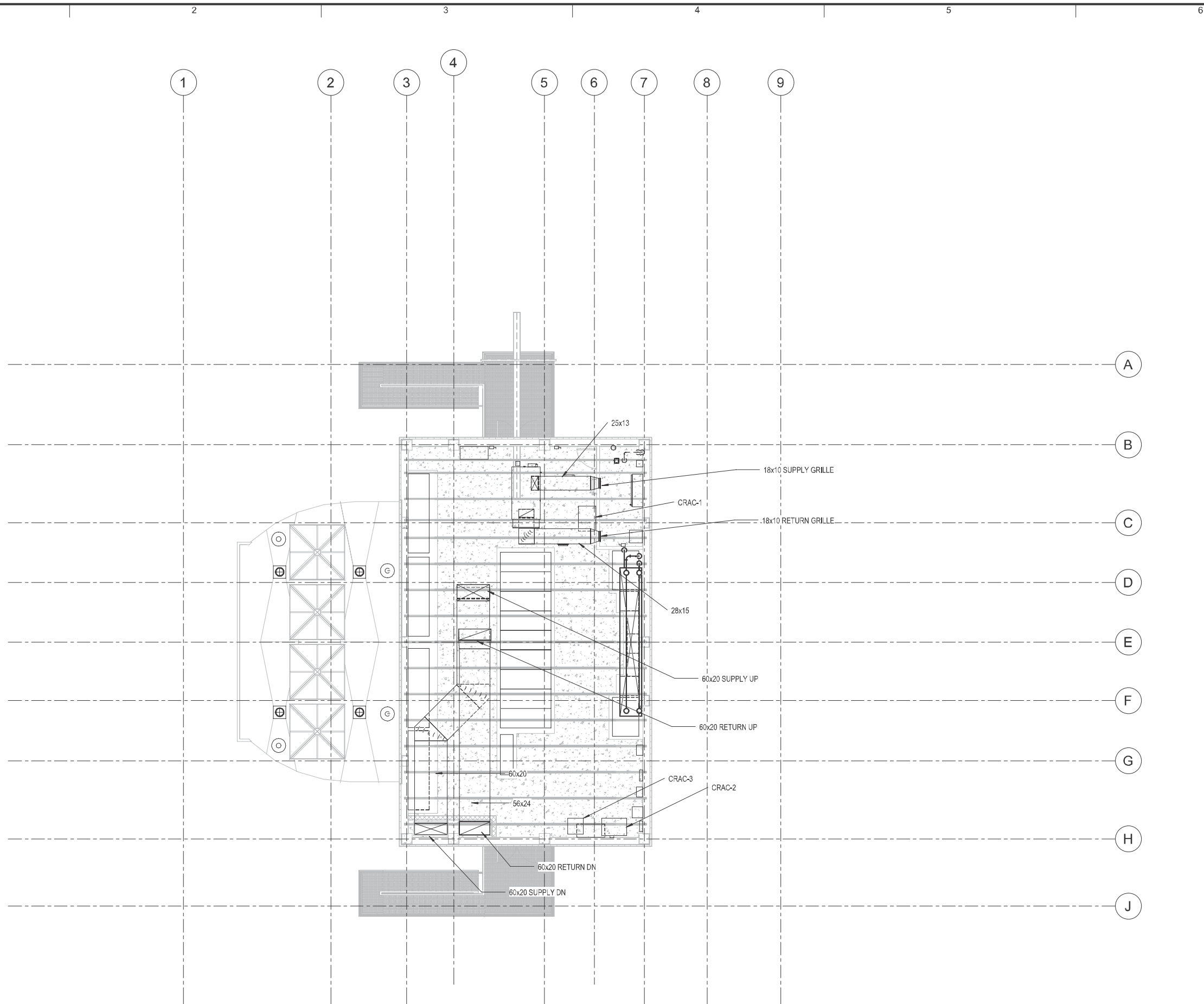
**SHEET TITLE**

BAY PARK EFFLUENT DIVERSION  
 PUMP STATION

HVAC ELECTRICAL ROOM  
 NEW WORK PLAN

SCALE:  
 AS NOTED

**BP-MH202  
 PAGE 40**



**1 ELECTRICAL ROOM**  
 Scale: 1/8" = 1'-0"

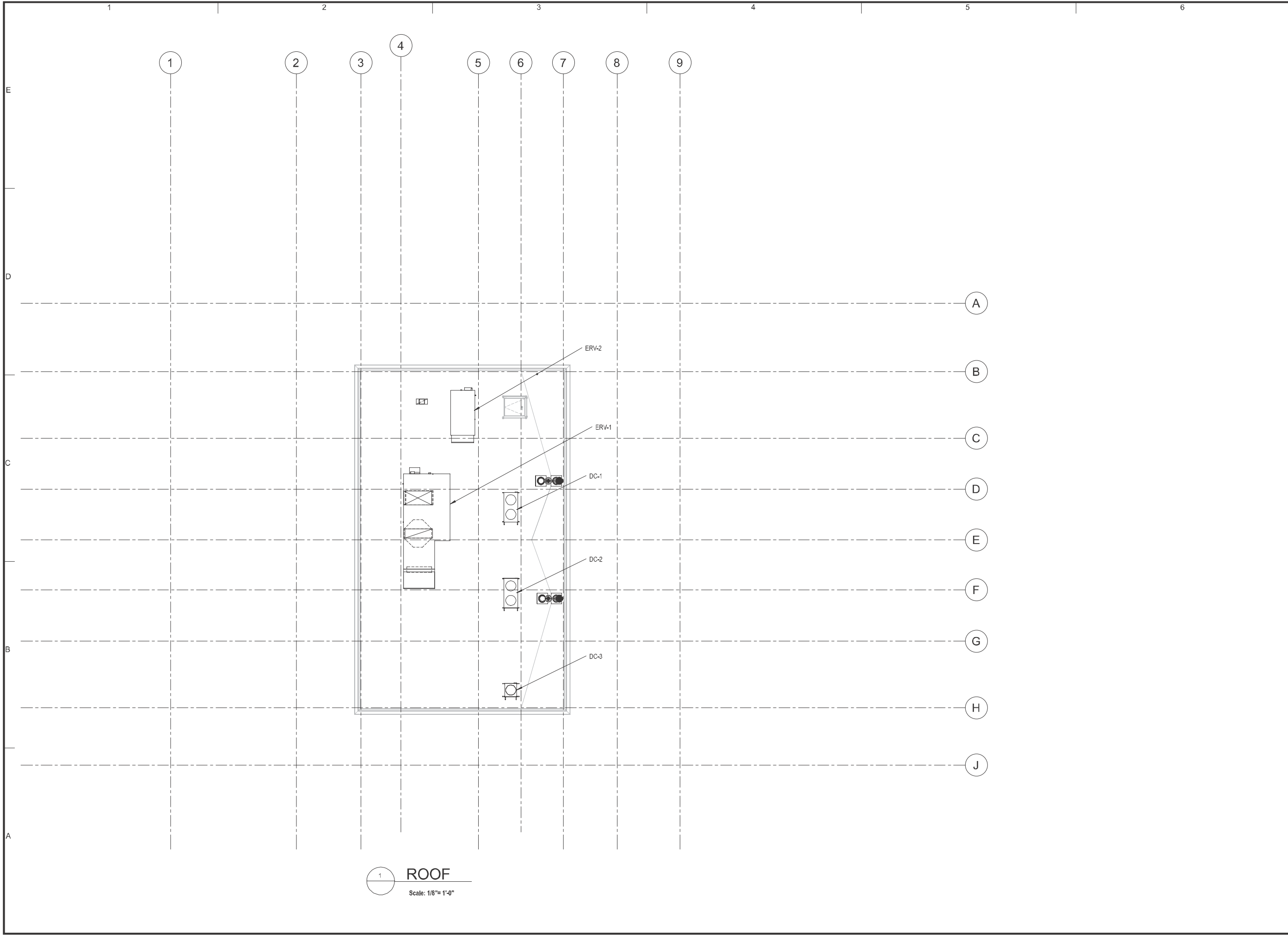
Save Date: 10/22/2019 5:04:33 PM Plo Date: 10/22/2019 5:04:33 PM

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

File: C:\Users\Public\Documents\MBP\BP-3D-BUILDING-REVIT\2018\_mh\mhd\mhd\BP-FVT

User: Spec

User: Spec: C:\Users\Public\Documents\MBP\BP-3D-BUILDING-REVIT\2018\_mh203\m203\m203.rvt  
 Scale: 10/22/2019 5:04:33 PM  
 Saved Date: 10/22/2019 5:04:33 PM  
 Pbi Date: 10/22/2019 5:04:33 PM



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE PROVIDED BY THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE: OCTOBER 2019  
 PROJECT NO.: PW-S3B116-03CR  
 APPROVED BY: SC  
 DESIGNED BY: ML  
 DRAWN BY: ML  
 CHECKED BY: SC

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

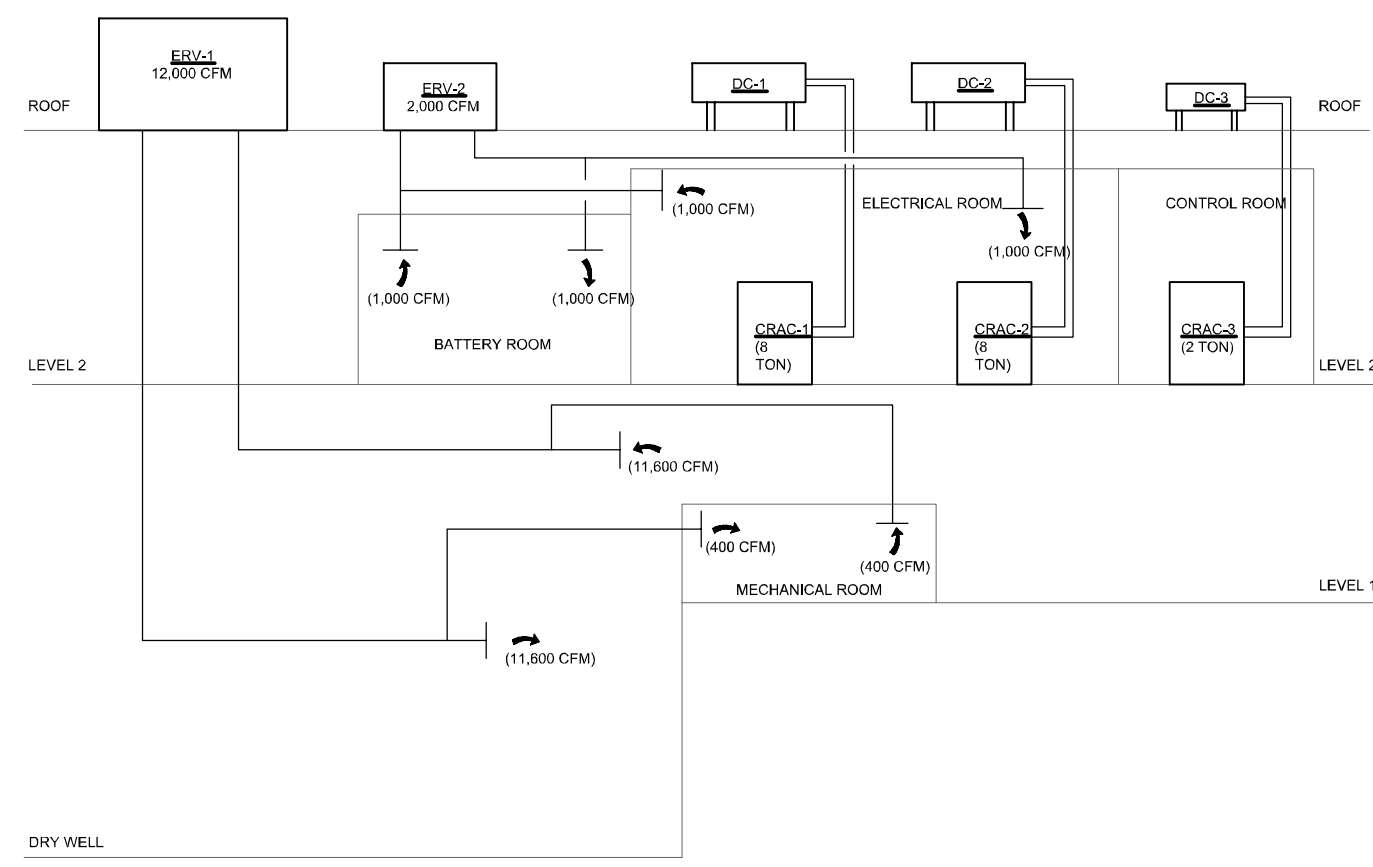
OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE  
BAY PARK EFFLUENT DIVERSION  
PUMP STATION

HVAC ROOF NEW WORK  
PLAN

SCALE:  
AS NOTED

**BP-MH203  
PAGE 41**



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	M-500		
DESIGNED BY:	ML		
DRAWN BY:	ML		
CHECKED BY:	SC		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS  
  
OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE  
  
BAY PARK FORCE MAIN  
  
BAY PARK EFFLUENT  
DIVERSION PUMP STATION  
  
HVAC AIR RISER

SCALE: NOT TO SCALE

**BP-MH500**  
  
PAGE 42

User:ABDA-SpecAUC-NCMCD File:C:\BMS\WSP-FB-US-FM-Q2\WSP\_ALA\BID\BMS0160M-600\DWG Scale:1/4"=1'-0" Sheet:0160M-600.DWG Scale:1/4"=1'-0" Plot Date: 04/26/2020 Time: 1:46 Plot Date: 04/26/2020 Time: 1:46 Plot Date: 04/26/2020 Time: 1:46 Plot Date: 04/26/2020 Time: 1:46





E  
D  
C  
B  
A

**AIR COOLED ENERGY RECOVERY HEAT PUMP SYSTEMS**

(TRANE AS STANDARD)

DESIGNATION	SERVICE	LOCATION	TOTAL AIR QUANTITY (CFM)	OUTSIDE AIR QUANTITY (CFM)	PERCENT OUTSIDE AIR	SUPPLY FILTER		ELECTRIC HEATING PERFORMANCE					HEAT PUMP HEATING PERFORMANCE			COOLING PERFORMANCE						SUPPLY FAN			EXHAUST FAN			VIBRATION ISOLATION		UNIT ELECTRICAL DATA			REMARKS																		
						SPECIFICATION TYPE	AIR FRICTION (IN. OF WATER)	AIR SIDE		ELECTRIC			AIR SIDE			AIR SIDE			MOTOR (EACH FAN)			MOTOR (EACH FAN)			SPECIFICATION TYPE	STATIC DEFLECTION (INCHES)	VOLTS/PHASE	UNIT FLA (AMPS)	UNIT MCA (AMPS)	UNIT MFS (AMPS)																					
								INITIAL	FINAL	ENT. TEMP. (F)	L/G. TEMP. (F)	MAXIMUM AIR FRICTION (IN. OF WATER)	CAPACITY (KW)	VOLTAGE-FREZ	ENT. TEMP. (F)	L/G. TEMP. (F)	ENT. TEMP. AMBIENT (F)	COP	HEATING CAPACITY (MBH)	ENT. TEMP. (F)	WET BULB (F)	DRY BULB (F)	WET BULB (F)	EER							TOTAL COOLING CAPACITY (MBH)	SENSIBLE COOLING CAPACITY (MBH)		FACE VELOCITY (FPM)	TOTAL STATIC PRESSURE (IN. OF WATER)	STATIC PRESSURE EXT. OF CASING (IN. OF WATER)	NUMBER OF FANS	MINIMUM MOTOR HP	VOLTS/PHASE	FLA	TOTAL STATIC PRESSURE (IN. OF WATER)	STATIC PRESSURE EXT. OF CASING (IN. OF WATER)	NUMBER OF FANS	MINIMUM MOTOR HP	VOLTS/PHASE	FLA					
ERV-1	PUMP ROOM DRY WELL	ROOF	12,000	12,000	100%	MERV 8	0.21	0.75	43.3	79.9	0.07	139	460-3-60	43.3	73.2	0	3.1	416.5	82.3	67.9	53.8	53.6	12.2	529	380	434	3.54	1.5	2	7.5	460/3	10	2.19	1.0	2	5	460/3	6.6	F	2	460/3	210	282	300	YES	UNIT	MECH	VFD	9176	260 x 101 x 93	
ERV-2	ELEC. ROOM BATTERY ROOM	ROOF	2,000	2,000	100%	MERV 8	0.21	0.75	54	92	0.03	24	460-3-60	54	76.3	0	2.8	53.8	82.3	67.9	53.8	53.6	14.9	76.4	55.3	304	2.83	1.5	1	2.5	460/3	3.5	2.05	1.0	1	2.5	460/3	3.5	F	2	460/3	38.5	48.2	50	YES	UNIT	MECH	VFD	1987	161 x 52 x 55	

**COMPUTER ROOM AIR CONDITIONING UNITS**

(STULZ AS STANDARD)

TAG	LOCATION	SERVICE	TYPE/CONFIG	EVAPORATOR COIL			FAN SECTION				COMPRESSOR	FILTER	ELECTRICAL						EVAPORATOR DIMENSIONS (L x W x H)	CONDENSER DIMENSIONS (L x W x H)	EVAPORATOR WEIGHT	CONDENSER WEIGHT	MODEL		REMARKS						
				THC (MBH)	SHC (MBH)	EAT (DB / WB / %RH)	FACE VELOCITY	LAT (DB / WB)	NO. FANS	CFM	ESP (IN.WG)	RPM	HP	DRIVE	QTY/TYP	REFRIG.	TYPE	(V/PH)					EVAPORATOR			CONDENSER			EVAPORATOR	CONDENSER	
																							FLA	MCA		MFS	FLA	MCA			MFS
CRAO/DC-1,2	ROOF	ELEC.RM.	UPFLOW	93.8	71	75 / 62.5 / 50	308	51.9 / 50.6	1	3000	0	-	4	BELT	2/SCROLL	R-407C	MERV 8	208/3	57.2	75.3	100	8.0	9.0	15	46x36x76	75x33x32	-	240	COS-096-AR	SCS-096-ES	
CRAO/DC-3	ROOF	CONTR.RM.	UPFLOW	25.9	21	75 / 62.5 / 50	182	51.9 / 50.6	1	1000	0	-	4	BELT	2/SCROLL	R-407C	MERV 8	208/3	29.8	36.5	40	3.4	4.1	15	25x29x76	28x28x31	-	85	COS-024-AR	COS-024-ES	

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

FINAL DESIGN CRITERIA PACKAGE

DATE: APRIL 2020  
PROJECT NO.: PW-S3B116-03CR  
FILE NAME: M-600  
DESIGNED BY: ML  
DRAWN BY: ML  
CHECKED BY: SC

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS  
OCEAN OUTFALL EFFLUENT DIVERSION PROJECT

SHEET TITLE  
BAY PARK FORCE MAIN  
BAY PARK EFFLUENT DIVERSION PUMP STATION  
HVAC SCHEDULES

SCALE: NOT TO SCALE  
BP-MH600  
PAGE 43

User: AIBDA-ShecAUCS-MCOP File: C:\BMS\WSP-PS-US-PK-02\WSP\_A\LAB\DC\MSB0160M-600.DWG Scale: 1/4" = 1'-0" Date: 04/13/2020 11:30:11 AM

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
FINAL DESIGN CRITERIA PACKAGE			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	M-700		
DESIGNED BY:	ML		
DRAWN BY:	ML		
CHECKED BY:	SC		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

BAY PARK FORCE MAIN

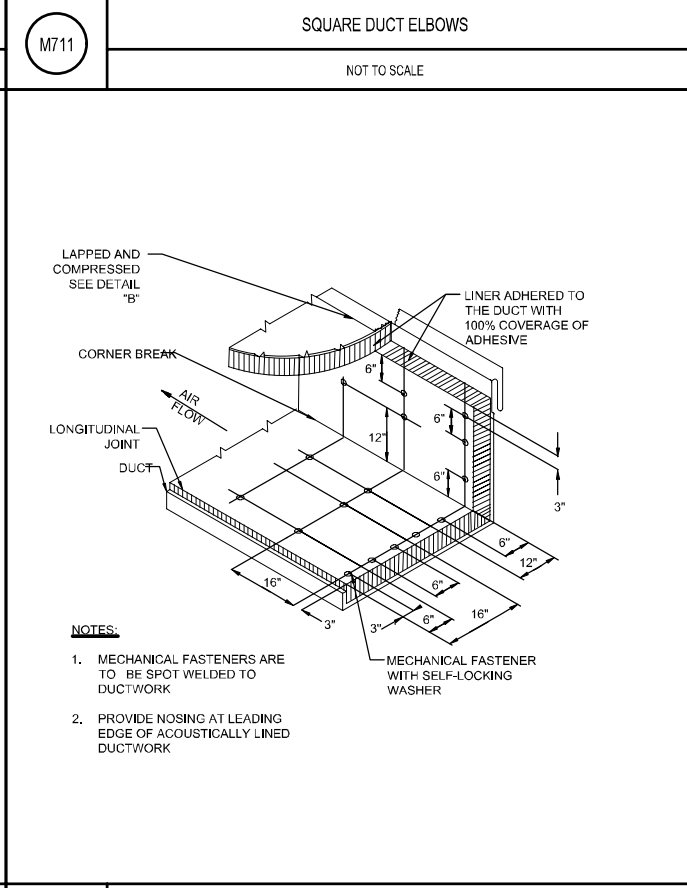
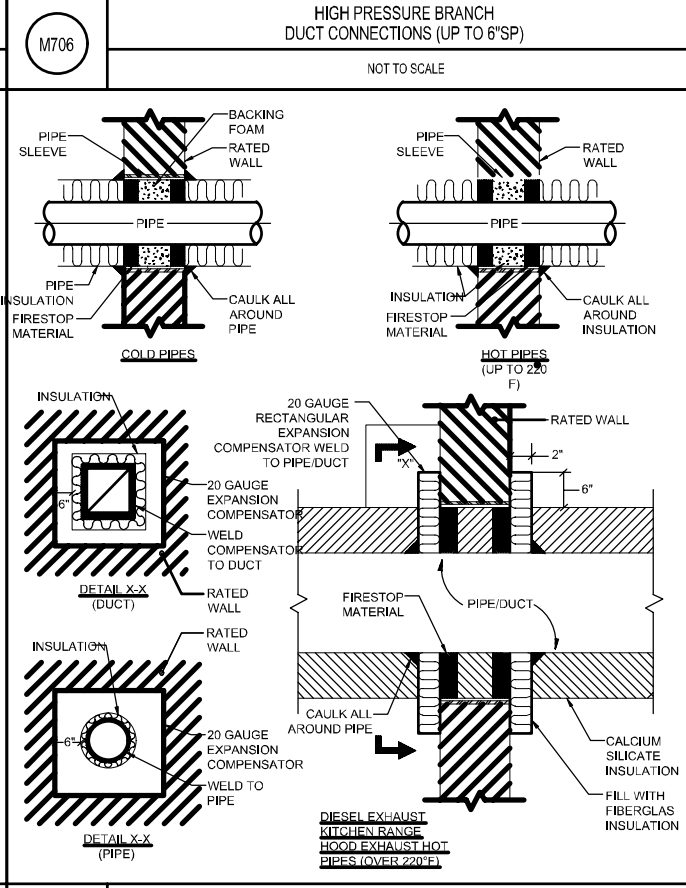
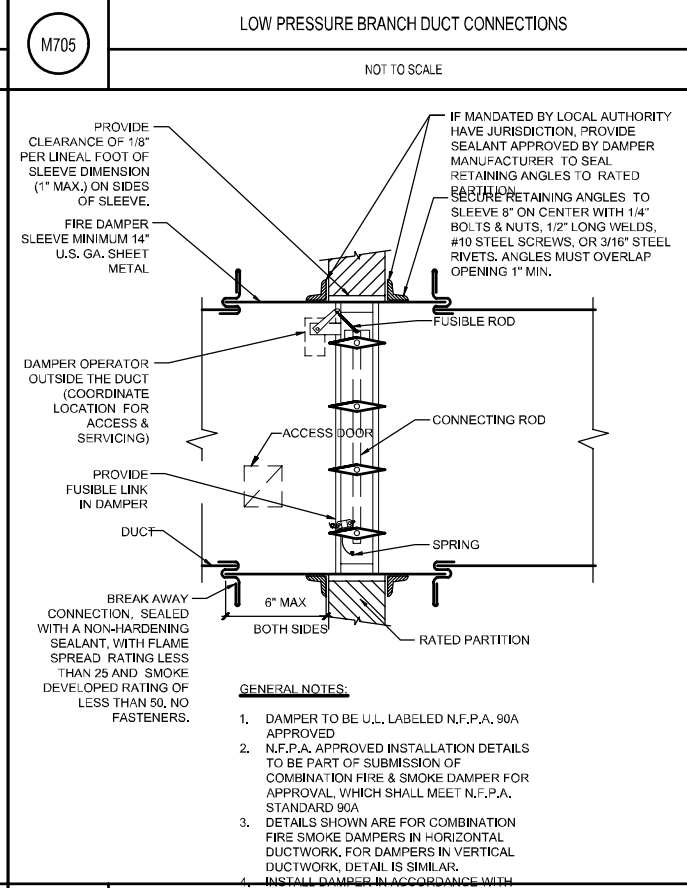
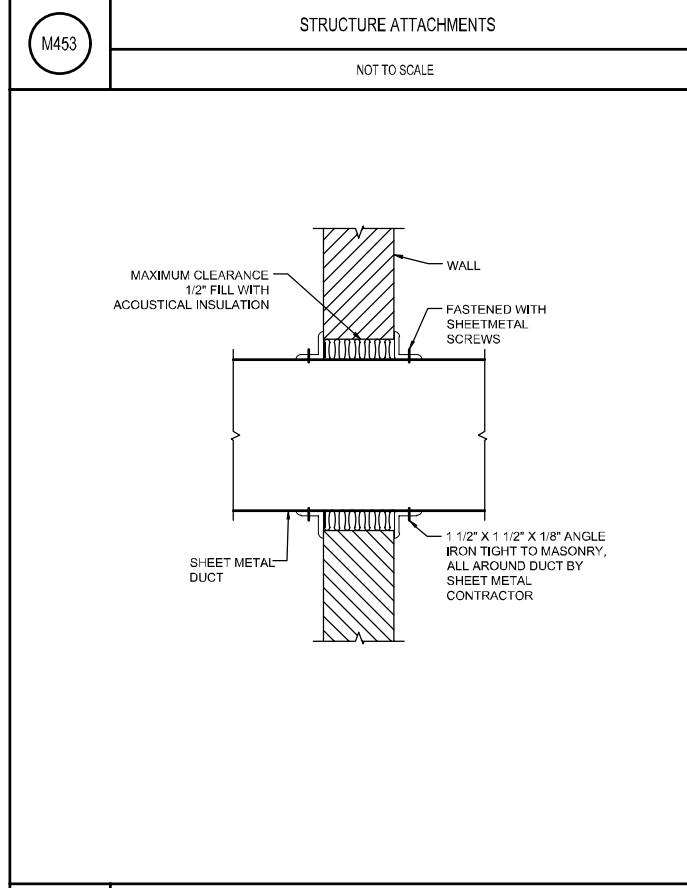
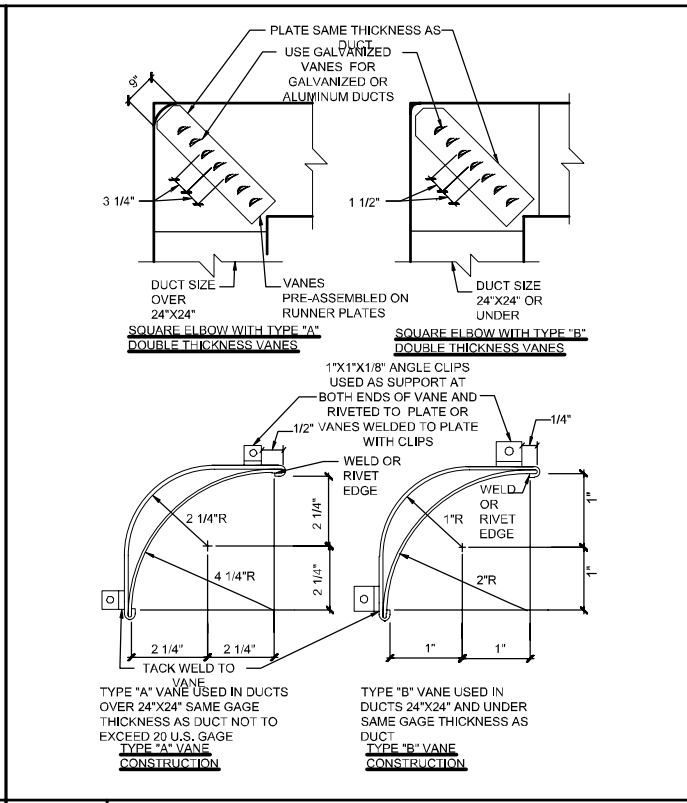
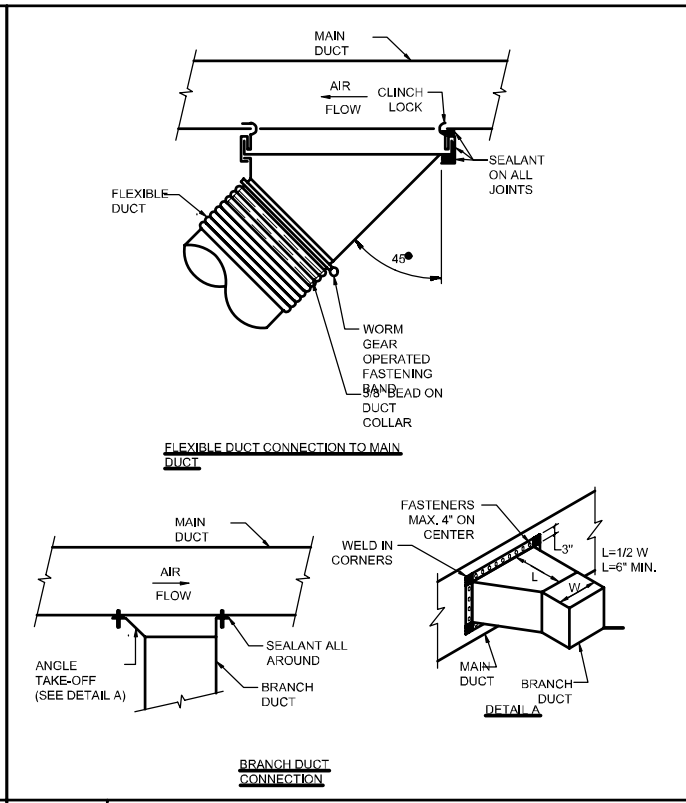
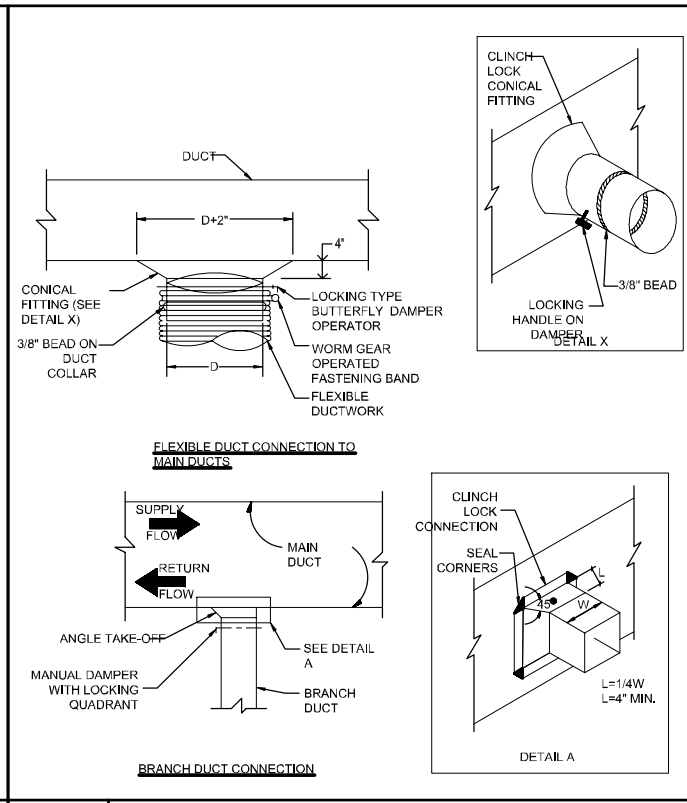
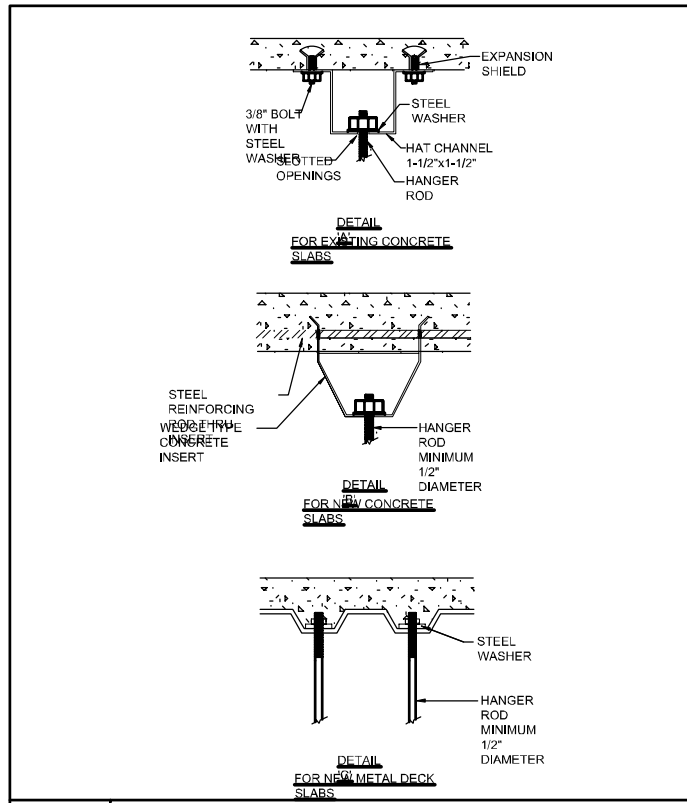
BAY PARK EFFLUENT  
DIVERSION PUMP STATION

HVAC DETAILS

SCALE: NOT TO SCALE

BP-MH700

PAGE 44



User: AIBDA-Sheet/ALCS/MSD File: C:\BIBS\WSP-FS-05\4-20\WSP\_AL LABID\DWG\BIBS\MSD\M-700.DWG Scale: 1/4"=1'-0" Plot Date: April, 2020 Time: 1:25 Plot Path: A:\4-19-2020\1141-L Layout\DETAILS





Saved Date: 10/22/2019 3:35:27 PM Plot Date: 10/22/2019 3:35:27 PM Scale: User: C:\Users\lunamw\OneDrive\Documents\BAYPUMP\3D\RE\IT 201\lunamw\lunamw@bpc.com.rvt

ELECTRICAL SYMBOLS	
ONE-LINE DIAGRAMS	
SYMBOL	DESCRIPTION
	METERING DEVICES: A-AMMETER, V-VOLTMETER, PF-POWER FACTOR, HZ-FREQUENCY METER
	FUSE, SIZE AS INDICATED
	GROUND CONNECTION
	CURRENT TRANSFORMER
	ZERO SEQUENCE CURRENT TRANSFORMER
	TRANSFORMER
	POTENTIAL TRANSFORMER
	MOTOR STARTER CONTACTOR AND OVERLOAD RELAY, FVNR UON
	DISCONNECT SWITCH
	CIRCUIT BREAKER WITH RATINGS AS INDICATED
	CIRCUIT BREAKER - DRAW OUT
	LINE REACTOR
	ATS - AUTOMATIC TRANSFER SWITCH
	SURGE PROTECTIVE DEVICE
	MOTOR
	CONDUCTORS NOT CONNECTED
	CONDUCTORS CONNECTED
	ELECTRONIC KEY INTERLOCK
	MEDIUM VOLTAGE TRIP UNIT
	LOW VOTAGE TRIP UNIT
	METER MONITOR DEVICE
	REVERSE POWER RELAY
	INSTANTANEOUS OVERCURRENT PROTECTION
	GROUND INSTANTANEOUS OVERCURRENT PROTECTION
	INVERSE TIME OVERCURRENT PROTECTION
	GROUND INVERSE TIME OVERCURRENT PROTECTION
	NEUTRAL INVERSE TIME OVERCURRENT PROTECTION
	LOCKOUT RELAY
	DIFFERENTIAL PROTECTION RELAY
	AMMETER
	DRAW/OUT MEDIUM VOLTAGE CIRCUIT BREAKER
	LIGHTING ARRESTOR
	OPEN DELTA WINDING
	DELTA WINDING
	GROUNDDED WYE WINDING
	GROUNDDED OPEN DELTA WINDING

ELECTRICAL SYMBOLS	
ELEMENTARY DIAGRAMS	
SYMBOL	DESCRIPTION
	N.O. MOMENTARY CONTACT PUSH BUTTON WITH NAMEPLATE AS INDICATED ON DIAGRAM
	N.C. MOMENTARY CONTACT PUSH BUTTON WITH NAMEPLATE AS INDICATED ON DIAGRAM
	N.C. MAINTAINED CONTACT PUSH BUTTON WITH MUSHROOM BUTTON
	TWO POSITION MAINTAINED CONTACT SELECTOR SWITCH WITH NAMEPLATE AS INDICATED ON DIAGRAMS
	THREE POSITION MAINTAINED CONTACT SELECTOR SWITCH WITH NAMEPLATE AS INDICATED ON THE CONTROL DIAGRAMS. X=CLOSED O= OPEN
	N.C. PRESSURE SWITCH - OPENS ON RISING PRESSURE
	N.O. PRESSURE SWITCH - CLOSSES ON RISING PRESSURE
	N.C. TEMPERATURE SWITCH - OPENS ON RISING TEMPERATURE
	N.O. TEMPERATURE SWITCH - CLOSSES ON RISING TEMPERATURE
	N.C. FLOW SWITCH - OPENS ON RISING FLOW
	N.O. FLOW SWITCH - CLOSSES ON RISING FLOW
	N.C. TORQUE SWITCH - OPENS ON INCREASING TORQUE
	N.O. TORQUE SWITCH - CLOSSES ON INCREASING TORQUE
	N.C. LIMIT SWITCH (HELD OPEN)
	N.O. LIMIT SWITCH
	N.O. LIMIT SWITCH (HELD CLOSED)
	SOLENOID VALVE OR RELAY COIL
	RELAY OR CONTACTOR COIL WITH TAG NUMBER AS SHOWN
	N.O. RELAY CONTACT
	N.C. RELAY CONTACT
	ON-DELAY OR OFF-DELAY RELAY
	ON-DELAY RELAY N.C. TIMED OPENING CONTACT
	ON-DELAY RELAY N.O. TIMED CLOSING CONTACT
	OFF-DELAY N.C. CONTACT (CLOSES WHEN ENERGIZED, TIMED CLOSING AFTER DE-ENERGIZING)
	OFF-DELAY N.O. CONTACT (CLOSES WHEN ENERGIZED, TIMED OPENING AFTER DE-ENERGIZING)
	INDICATOR OR PILOT LIGHT: R-RED, B-BLUE, W-WHITE, G-GREEN, A-AMBER O-ORANGE, C-CLEAR, NE-NEON, OP-OPALESCENT, P-PURPLE
	LATCHING RELAY L = LATCH COIL U = UNLATCH COIL
	FIELD WIRING
	ELAPSED TIME METER
	CONTROL POWER TRANSFORMER (WITHIN MOTOR STARTER)
	SOLENOID VALVE
	PUSH BUTTON STATION MOMENTARY CONTACT START-STOP
	PUSH BUTTON STATION MAINTAINED CONTACT START-STOP
	PUSH BUTTON STATION EMERGENCY STOP MAINTAINED CONTACT START-STOP
	THERMOSTAT

ELECTRICAL SYMBOLS	
POWER	
SYMBOL	DESCRIPTION
	PANELBOARD
	TRANSFORMER
	DISCONNECT SWITCH, NON-FUSED
	DISCONNECT SWITCH - FUSED
	COMBINATION MOTOR STARTER
	LOCAL-OFF-REMOTE CONTROL STATION (LOR)
	JUNCTION BOX
	PULL BOX
	ENCLOSED CIRCUIT BREAKER
	EMERGENCY POWER OFF SWITCH
	ELECTRICAL PULLBOX
	UTILITY POLE
	SIMPLEX RECEPTACLE
	DUPLEX RECEPTACLE (15 AMP UNLESS OTHERWISE NOTED)
	NEMA 4X RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE - 480V
	SPECIAL PURPOSE RECEPTACLE - 208V
	BRANCH CIRCUIT HOME RUN.
	SWBD = SWITCHBOARD HOME RUN
	PP = PANELBOARD "PP" HOME RUN
	LP = PANELBOARD "LP" HOME RUN
	INSTRUMENT
LIGHTING	
SYMBOL	DESCRIPTION
	LIGHTING FIXTURE (TYPE AS SHOWN)
	LIGHTING FIXTURE (EMERGENCY OR NIGHT LIGHT)
	HID WALL PACK
	EXIT SIGN - CEILING OR PENDANT MOUNTED (SHADED PORTION INDICATES FACE)
	EXIT SIGN - WALL MOUNTED
	POLE MOUNTED LIGHTING FIXTURE SINGLE, DOUBLE HEAD
	CEILING MOUNTED LIGHTING FIXTURE (TYPE AS SHOWN)
	WALL MOUNTED LIGHTING FIXTURE (TYPE AS SHOWN)
	EMERGENCY BATTERY UNIT WITH REMOTE HEADS
	OCCUPANCY SENSOR
	PHOTOCCELL
	SINGLE POLE LINE VOLTAGE SWITCH
GROUNDING	
SYMBOL	DESCRIPTION
	3/4" X 10' COPPER CLAD GROUND ROD
	GROUND GRID TEST WELL
	EXOTHERMIC WELD CONNECTION (BELOW GROUND)
	BOLTED GROUND CONNECTION (ABOVE GROUND)
	TRANSIENT VOLTAGE SURGE SUPPRESSOR
	LIGHTNING PROTECTION AIR TERMINAL

ELECTRICAL SYMBOLS	
GENERAL	
SYMBOL	DESCRIPTION
	DRAWING NOTE NUMBER 2
	POWER CIRCUIT NUMBER
	POINT OF CONNECTION
	COMPARTMENT NUMBER 2
	NEC ARTICLE 500 HAZARDOUS (CLASSIFIED) AREA DEFINITION
	DEMOLITION LINE TYPE
	EXISTING
	PROPOSED ELECTRICAL WORK
	PROPOSED UNDERGROUND ELECTRICAL WORK
	FUTURE ELECTRICAL WORK
	UNDERGROUND COPPER GROUNDING CONDUCTOR (SIZE AS SHOWN ON DRAWING)
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC
	CONCRETE ENCASED DUCT BANK
ELECTRICAL ABBREVIATIONS	
A, AMP	-AMPERE
AC	-ALTERNATING CURRENT
AIC	-AMPS INTERRUPTING CAPACITY
AF	-AMP FRAME
AT	-AMP TRIP
ATS	-AUTOMATIC TRANSFER SWITCH
AWG	-AMERICAN WIRE GAUGE
C	-CONDUIT
CCTV	-CLOSED CIRCUIT TELEVISION
CEP	-CONCRETE EQUIPMENT PAD
CKT	-CIRCUIT
CMH	-COMMUNICATION MANHOLE
COND	-CONDUCTOR
CPT	-CONTROL POWER TRANSFORMER
CR	-CONTROL RELAY
CU	-COPPER
CWA	-CONSTANT WATTAGE AUTOTRANSFORMER
CRAC	-COMPUTER ROOM AIR CONDITIONER
DC	-DIRECT EXPANSION CONDENSER
DISC	-DISCONNECT
DP	-DISTRIBUTION PANEL
DPST	-DOUBLE POLE SINGLE THROW
DPDT	-DOUBLE POLE DOUBLE THROW
DS	-DISCONNECT SWITCH
DT	-DOUBLE THROW
E.EMERG	-EMERGENCY
EC	-EMPTY CONDUIT
EMT	-ELECTRICAL METALLIC TUBING
ETM	-ELAPSED TIME METER
ERV	-ENERGY RECOVERY VENTILATOR
EXIST.	-EXISTING
FA	-FIRE ALARM
FE	-FLOW PRIMARY ELEMENT
FAAP	-FIRE ALARM ANNUNCIATOR PANEL
FACP	-FIRE ALARM CONTROL PANEL
FDR	-FEEDER
FIT	-FLOW INDICATING TRANSMITTER
FLA	-FULL LOAD AMPERES
FMC	-FLEXIBLE METAL CONDUIT
FS	-FLOW SWITCH
FU	-FUSED OR FUSIBLE
FVR	-FULL VOLTAGE REVERSING
FVNR	-FULL VOLTAGE NON-REVERSING
G, GND	-GROUND
GFI	-GROUND FAULT INTERRUPTER
GFR	-GROUND FAULT RELAY
GRS	-GALVANIZED RIGID STEEL CONDUIT
HH	-HANDHOLE
HT	-HIGH TEMPERATURE
HV	-HIGH VOLTAGE
HZ	-HERTZ
IC	-INTERRUPTING CAPACITY
IG	-ISOLATED GROUND
II	-CURRENT/CURRENT TRANSDUCER
IO	-INPUT/OUTPUT
IT	-INSTANTANEOUS TRIP OR INTERCHANGEABLE
JB	-JUNCTION BOX
KB	-THOUSAND CIRCULAR MILS
KV	-KILOVOLTS
KVA	-KILOVOLT AMPERES
KVAR	-KILOVOLT AMPERES REACTIVE
KW	-KILOWATTS
KWH	-KILOWATT HOUR

ELECTRICAL ABBREVIATIONS	
SYMBOL	DESCRIPTION
LA	-LIGHTING ARRESTOR
LE	-LEVEL ELEMENT
LFMC	-LIQUID TIGHT FLEXIBLE METAL CONDUIT
LOR	-LOCAL-OFF-REMOTE
LP	-LIGHTING PANELBOARD
LS	-LIMIT SWITCH
LIT	-LEVEL INDICATING TRANSMITTER
LVL	-LEVEL SWITCH
LTG	-LIGHTING
LPS	-LIGHTNING PROTECTION SYSTEM
LVTU	-LOW VOLTAGE TRIP UNIT
mA	-MILLIAMPS
MA	-MAIN A
MB	-MAIN B
MF	-MAIN FEEDER
MCB	-MAIN CIRCUIT BREAKER
MCP	-MOTOR CIRCUIT PROTECTOR
MH	-MANHOLE
MLO	-MAIN LUGS ONLY
MMD	-METER MONITORING DEVICE
MV	-MEDIUM VOLTAGE
MVTU	-MEDIUM VOLTAGE TRIP UNIT
NC	-NORMALLY CLOSED
NF	-NON-FUSED
NFSS	-NON-FUSED SAFETY SWITCH
NGR	-NEUTRAL GROUNDING RESISTOR
NO	-NORMALLY OPEN
ODP	-OPEN DRIP PROOF
OL	-OVERLOAD
(#)P	-(#) NUMBER OF POLES
Ø, PH	-PHASE
P/I	-PNEUMATIC/CURRENT TRANSDUCER
PB	-PUSHBUTTON
PCP	-PUMP CONTROL PANEL
PE	-PRESSURE ELEMENT
PF	-POWER FACTOR
PL	-PILOT LIGHT
PLC	-PROGRAMMABLE LOGIC CONTROLLER
PIT	-PRESSURE INDICATING TRANSMITTER
PP	-POWER PANELBOARD
PS	-PRESSURE SWITCH
PT	-POTENTIAL TRANSFORMER
RFI	-RADIO FREQUENCY INTERFERENCE
RLA	-RUNNING LOAD AMPERES
RMS	-ROOT MEAN SQUARE
RSC	-RIGID STEEL CONDUIT
RTD	-RESISTIVE TEMPERATURE DETECTOR
RVAT	-REDUCED VOLTAGE AUTO TRANSFORMER
RECP	-RECEPTACLE
SC	-BURGE CAPACITOR
SS	-SAFETY SWITCH OR STAINLESS STEEL
SST	-SOLID STATE
ST	-SINGLE THROW
SWS	-SWITCHES
SWBD	-SWITCHBOARD
SWGR	-SWITCHGEAR
T-STAT	-THERMOSTAT
TEL, TELE	-TELEPHONE
TMH	-TELECOM MANHOLE
TR	-TIMING RELAY
TS	-TEMPERATURE SWITCH
TSP	-TWISTED SHIELDED PAIR
UTP	-UNSHIELDED TWISTED PAIR - VOLTS
V	-VOLT
VA	-VOLT - AMPERES
VFD	-VARIABLE FREQUENCY DRIVE
VS	-VIBRATION SWITCH
W	-WATTS, WIRE
XFMR	-TRANSFORMER
XP	-EXPLOSION PROOF
2S1W	-2 SPEED SINGLE WINDING
2S2W	-2 SPEED TWO WINDING
GENERAL NOTES:	
1.	THIS IS A STANDARD SYMBOL LIST, SOME SYMBOLS MAY NOT APPEAR ON THE ACCOMPANYING DRAWINGS.
2.	ALL ELECTRICAL EQUIPMENT AND WIRING IS NEW UNLESS OTHERWISE NOTED.
3.	WHERE EXISTING EQUIPMENT AND WIRING IS SHOWN TO BE MODIFIED OR REMOVED, FIELD VERIFY EXISTING LOCATIONS, CONNECTIONS AND WIRING TO ENSURE ACTUAL FEATURES ARE AS SHOWN OR NOTED.
4.	FIELD VERIFY EXISTING FEATURES AS NECESSARY TO COORDINATE EXECUTION OF THE WORK SHOWN.
5.	ELECTRICAL EQUIPMENT SHALL BE MOUNTED WITH OPERATING CONTROLS BETWEEN APPROXIMATELY 4'-0" AND 6'-0" ABOVE FINISHED FLOOR UNLESS OTHERWISE SHOWN OR SPECIFIED.



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
 DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED BY THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION CONCERNING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

FINAL DESIGN CRITERIA PACKAGE			
DATE:	OCTOBER 2019		
PROJECT NO.:	71681		
APPROVED BY:	J. DOMANSKI		
DESIGNED BY:	J. CROSIER		
DRAWN BY:	J. CLARK		
CHECKED BY:	J. CROSIER		

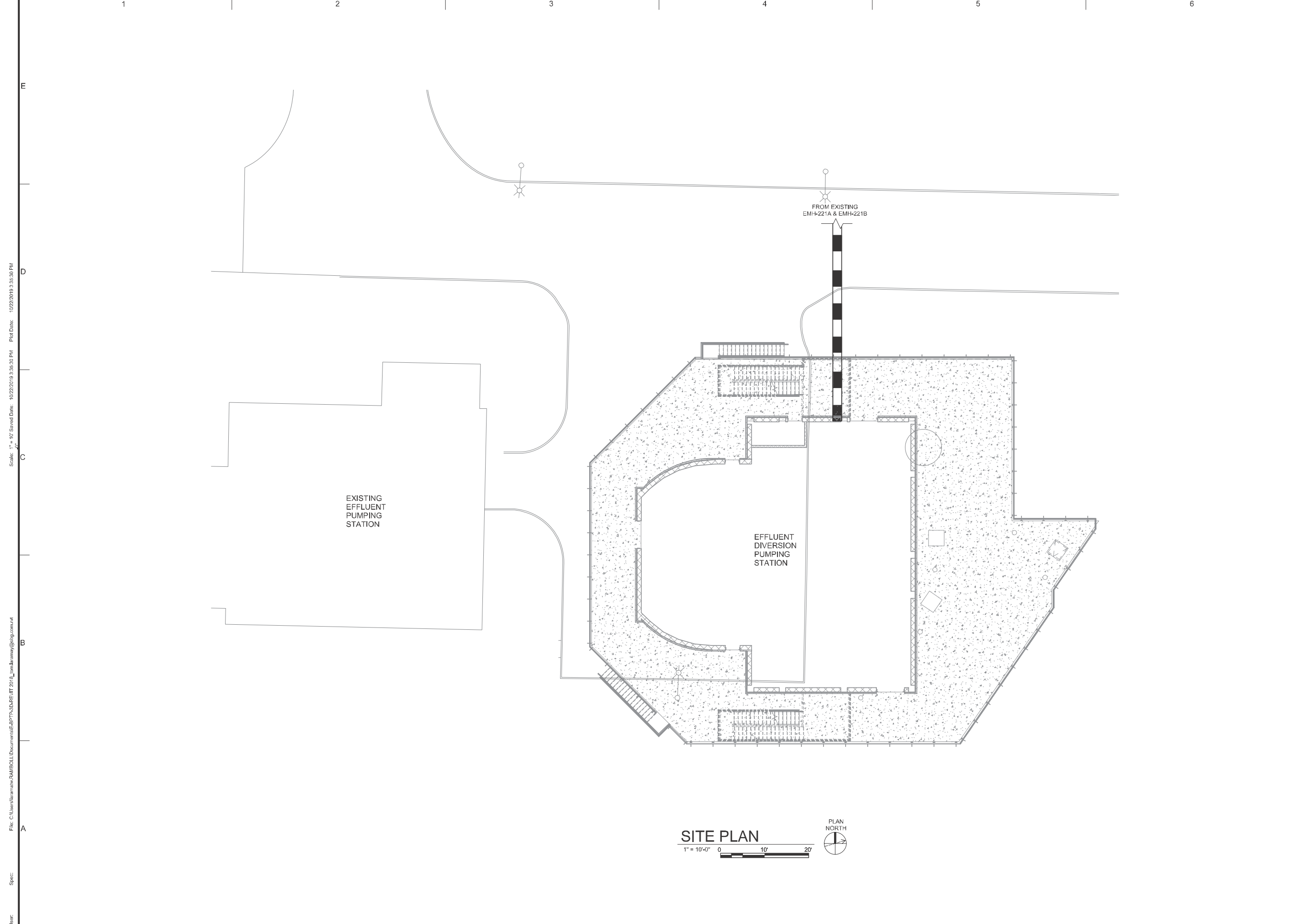
NASSAU COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC  
 WORKS  
  
 OCEAN OUTFALL EFFLUENT  
 DIVERSION PROJECT

SHEET TITLE  
  
 BAY PARK  
 EFFLUENT DIVERSION  
 PUMP STATION  
 GENERAL NOTES, SYMBOLS  
 & ABBREVIATIONS

SCALE: AS NOTED

BP-E001  
 PAGE 46





**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED BY THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE: OCTOBER 2019  
 PROJECT NO.: 71681  
 APPROVED BY: J. DOMANSKI  
 DESIGNED BY: J. CROSIER  
 DRAWN BY: J. CLARK  
 CHECKED BY: J. CROSIER

NASSAU COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC  
 WORKS

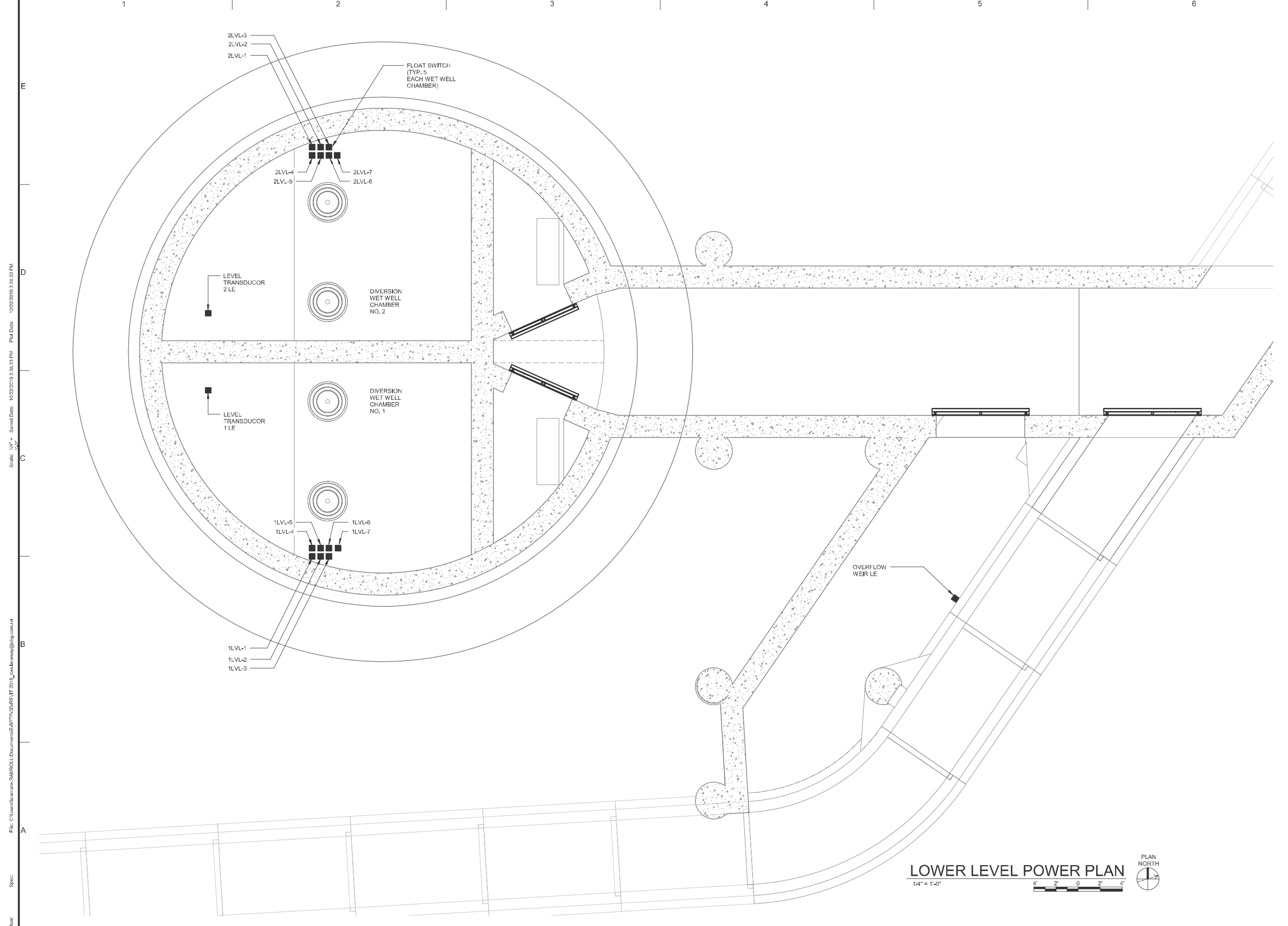
OCEAN OUTFALL EFFLUENT  
 DIVERSION PROJECT

SHEET TITLE  
 BAY PARK  
 EFFLUENT DIVERSION  
 PUMP STATION  
 SITE PLAN

SCALE:  
 AS NOTED

BP-E101  
 PAGE 47

User: Spec: File: C:\Users\lumaw\RAMBOLL\Documents\EBP\7P-3D-REMIT 2019\emh\ramay@gcg.com.rvt  
 Scale: 1" = 10' Saved Date: 10/22/2019 3:35:50 PM Plot Date: 10/22/2019 3:35:30 PM



User: Spec: File: C:\Users\lumaw\RAMBOLL\Documents\BP-PF-3D-RE-IT 201\lumaw\lumaw@bcb.com.rvt  
 Scale: 1/4" = 1'-0"  
 Saved Date: 10/22/2019 3:35:53 PM Plot Date: 10/22/2019 3:35:53 PM



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED BY THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	OCTOBER 2019		
PROJECT NO.:	71681		
APPROVED BY:	J. DOMANSKI		
DESIGNED BY:	J. CROSIER		
DRAWN BY:	J. CLARK		
CHECKED BY:	J. CROSIER		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL EFFLUENT  
DIVERSION PROJECT

SHEET TITLE

BAY PARK  
EFFLUENT DIVERSION  
PUMP STATION  
LOWER LEVEL  
POWER PLAN

SCALE: AS NOTED

BP-E102  
PAGE 48

**LOWER LEVEL POWER PLAN**  
1/4" = 1'-0"





**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

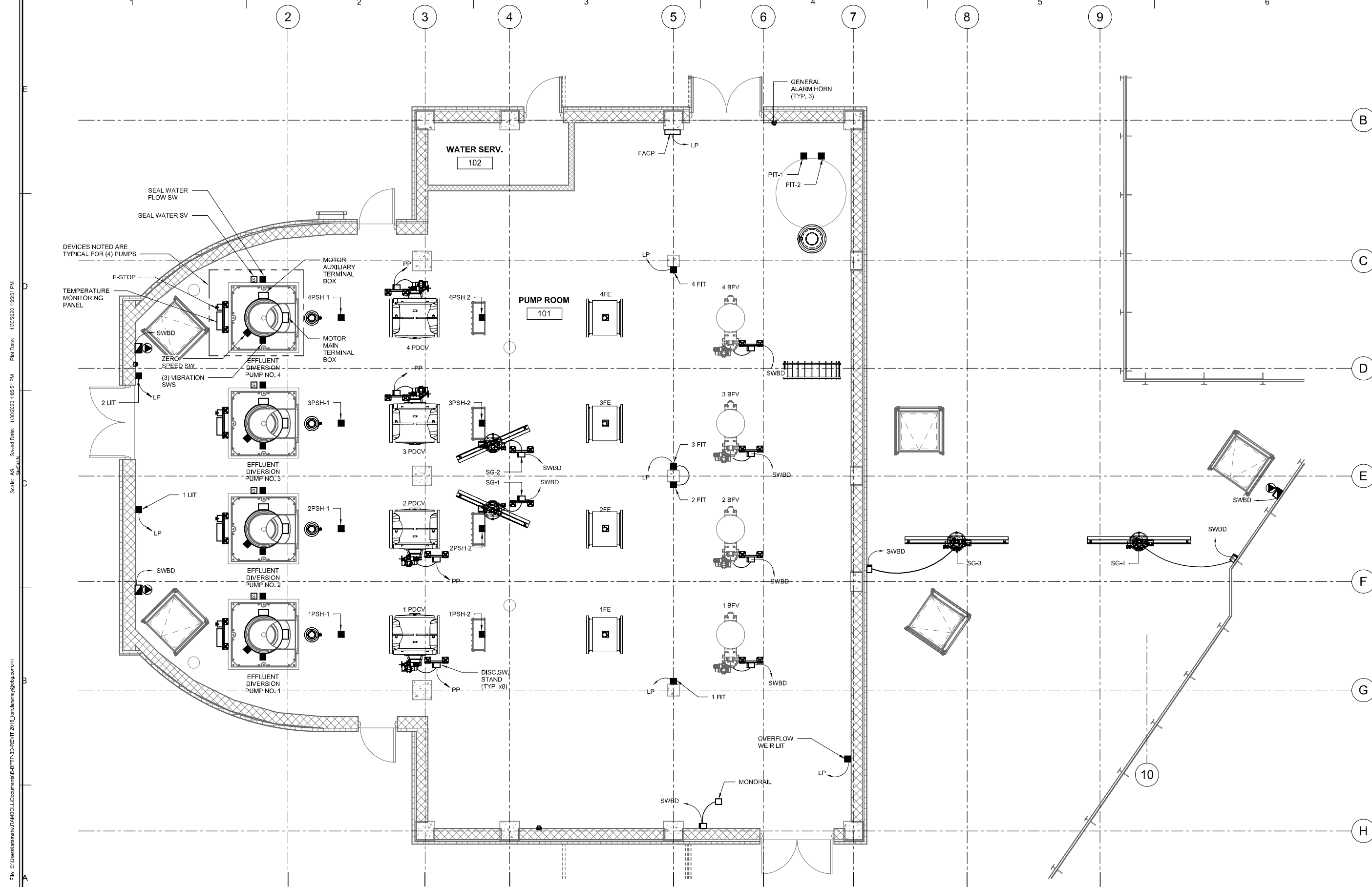
FINAL DESIGN CRITERIA PACKAGE			
DATE:	OCTOBER 2019		
PROJECT NO.:	71681		
APPROVED BY:	J. DOMANSKI		
DESIGNED BY:	J. CROSIER		
DRAWN BY:	J. CLARK		
CHECKED BY:	J. CROSIER		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS  
  
OCEAN OUTFALL EFFLUENT  
DIVERSION PROJECT

SHEET TITLE  
  
BAY PARK  
EFFLUENT DIVERSION  
PUMP STATION  
UPPER LEVEL  
POWER PLAN

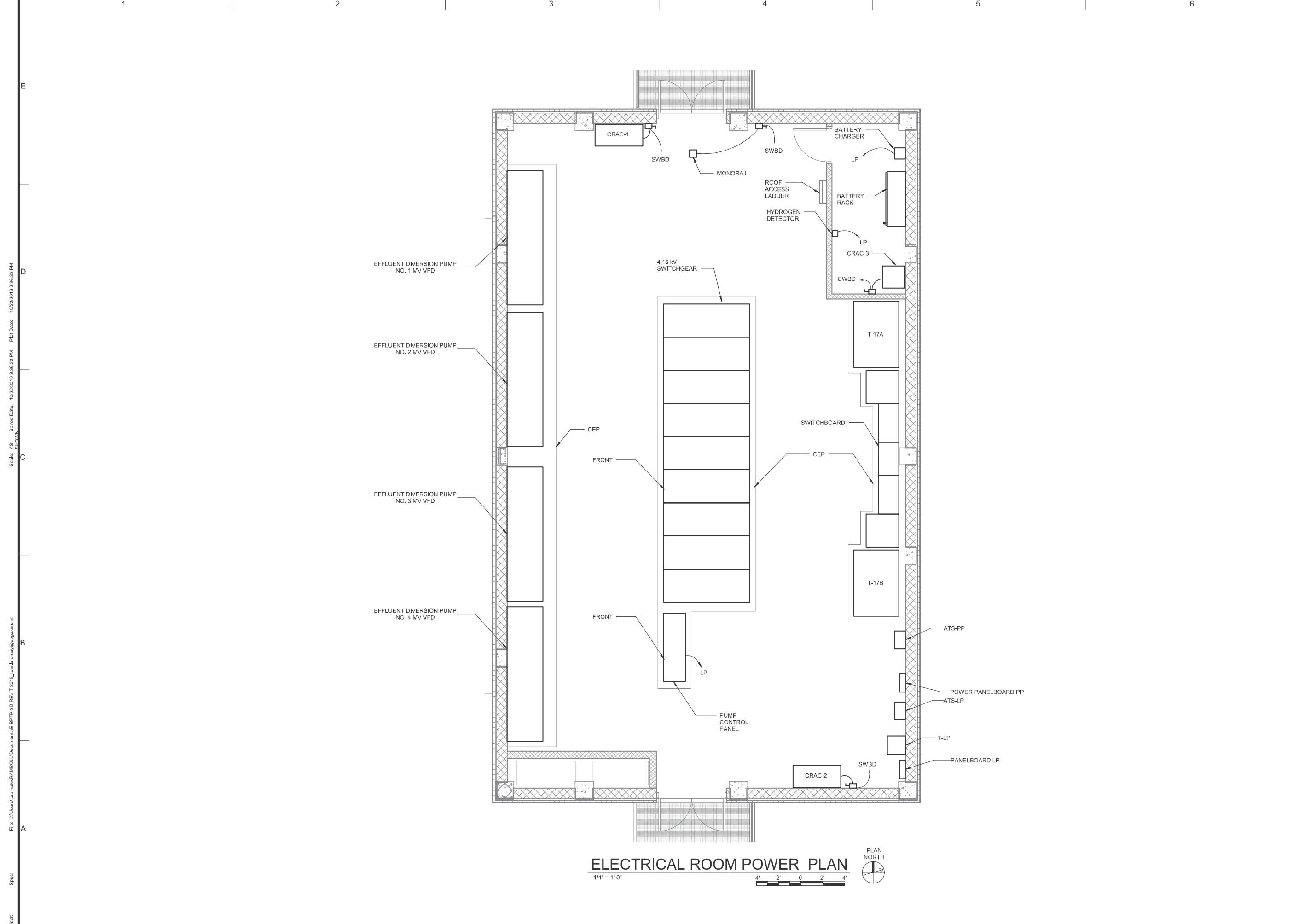
SCALE:  
AS NOTED

BP-E103  
PAGE 49



**UPPER LEVEL POWER PLAN**  
1/4" = 1'-0"  
4' 2' 0' 2' 4'  
PLAN NORTH

User: Spec: File: C:\Users\jclark\OneDrive\Documents\BPTP-3D-REVIT 2016\_Lin\_Markings\gbp.com.rvt  
 Scale: AS Saved Date: 10/20/2019 10:51 PM Plot Date: 10/20/2019 10:51 PM



User: Spec: File: C:\Users\lunamaw\RAMBOLL\Documents\BP-PF-3D-REMIT 2019\lunamaw\lunamaw@bgl.com.rvt  
 Scale: AS SHOWN  
 Saved Date: 10/22/2019 3:36:53 PM  
 Plot Date: 10/22/2019 3:36:53 PM



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
 DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED BY THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	OCTOBER 2019		
PROJECT NO.:	71681		
APPROVED BY:	J. DOMANSKI		
DESIGNED BY:	J. CROSIER		
DRAWN BY:	J. CLARK		
CHECKED BY:	J. CROSIER		

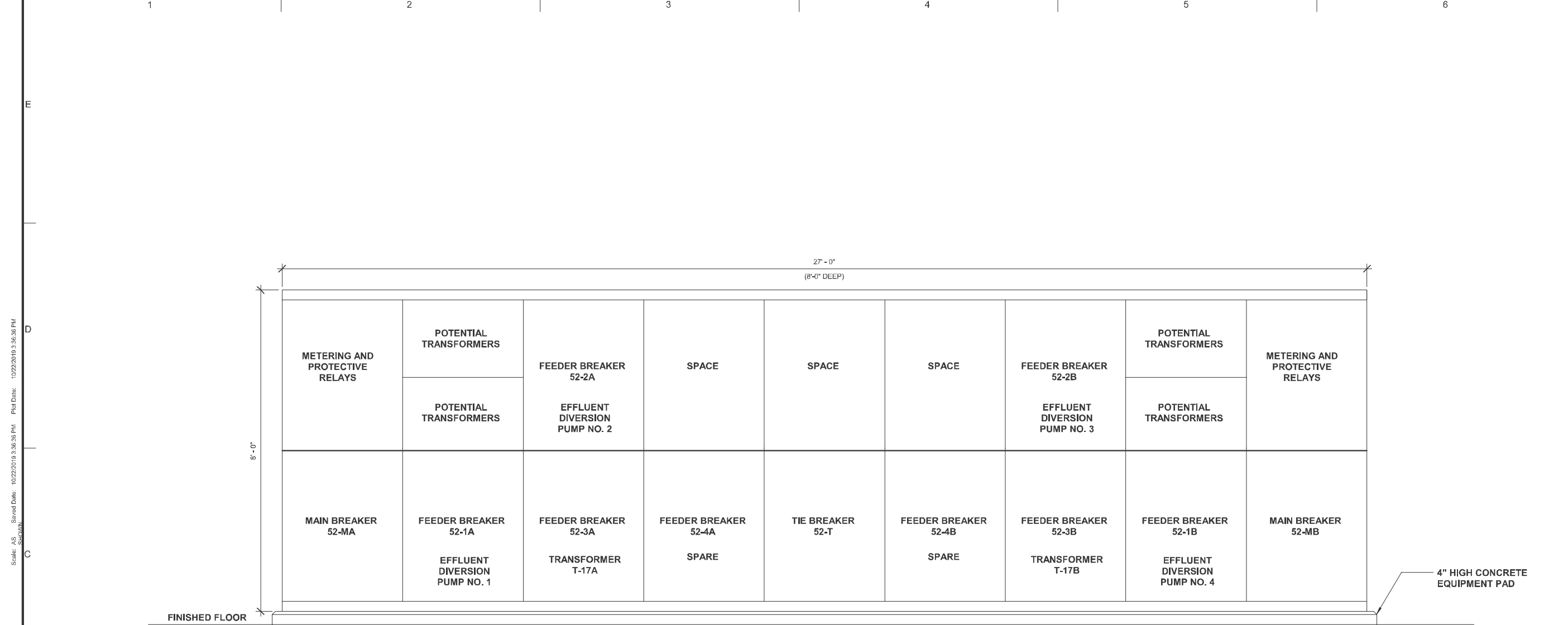
NASSAU COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC WORKS  
  
 OCEAN OUTFALL EFFLUENT DIVERSION PROJECT

SHEET TITLE  
  
 BAY PARK  
 EFFLUENT DIVERSION  
 PUMP STATION  
 ELECTRICAL ROOM POWER  
 PLAN

SCALE: AS NOTED  
  
**BP-E104**  
 PAGE 50







### 4.16 KV SWITCHGEAR ELEVATION

NOT TO SCALE



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED BY THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE: OCTOBER 2019

PROJECT NO.: 71681

APPROVED BY: J. DOMANSKI

DESIGNED BY: J. CROSIER

DRAWN BY: J. CLARK

CHECKED BY: J. CROSIER

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL EFFLUENT  
DIVERSION PROJECT

SHEET TITLE

BAY PARK  
EFFLUENT DIVERSION  
PUMP STATION

4.16 KV SWITCHGEAR  
ELEVATION

SCALE: AS NOTED

**BP-E201**

PAGE 52

User: Spec: File: C:\Users\lumaw\RAMBOLL\Documents\BP-E201\4.16KV Switchgear\4.16KV Switchgear.dwg  
 Scale: AS NOTED  
 Date: 10/22/2019 3:36:36 PM  
 Plot Date: 10/22/2019 3:36:36 PM



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED BY THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE:	OCTOBER 2019
PROJECT NO.:	71681
APPROVED BY:	J. DOMANSKI
DESIGNED BY:	J. CROSIER
DRAWN BY:	J. CLARK
CHECKED BY:	J. CROSIER

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL EFFLUENT  
DIVERSION PROJECT

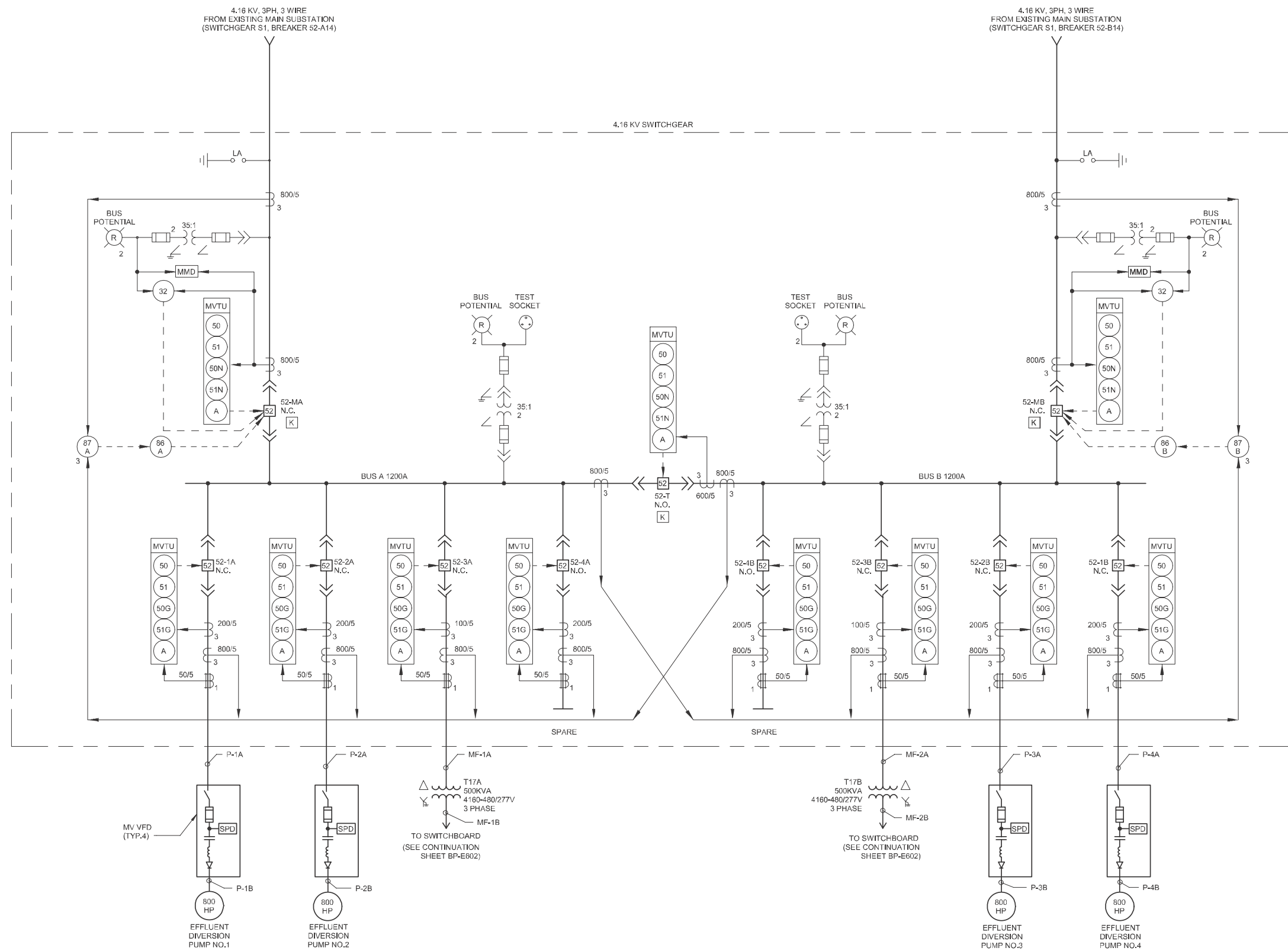
SHEET TITLE

BAY PARK  
EFFLUENT DIVERSION  
PUMP STATION  
4.16 KV POWER  
DISTRIBUTION ONE-LINE  
DIAGRAM

SCALE:  
AS NOTED

BP-E601

PAGE 53



**4.16 KV POWER DISTRIBUTION ONE-LINE DIAGRAM**  
NOT TO SCALE

Scale: AS NOTED  
User: JCL

Spec: JCL

User: JCL







**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED BY THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE: OCTOBER 2019  
 PROJECT NO.: 71681  
 APPROVED BY: J. DOMANSKI  
 DESIGNED BY: J. CROSIER  
 DRAWN BY: J. CLARK  
 CHECKED BY: J. CROSIER

NASSAU COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC  
 WORKS

OCEAN OUTFALL EFFLUENT  
 DIVERSION PROJECT

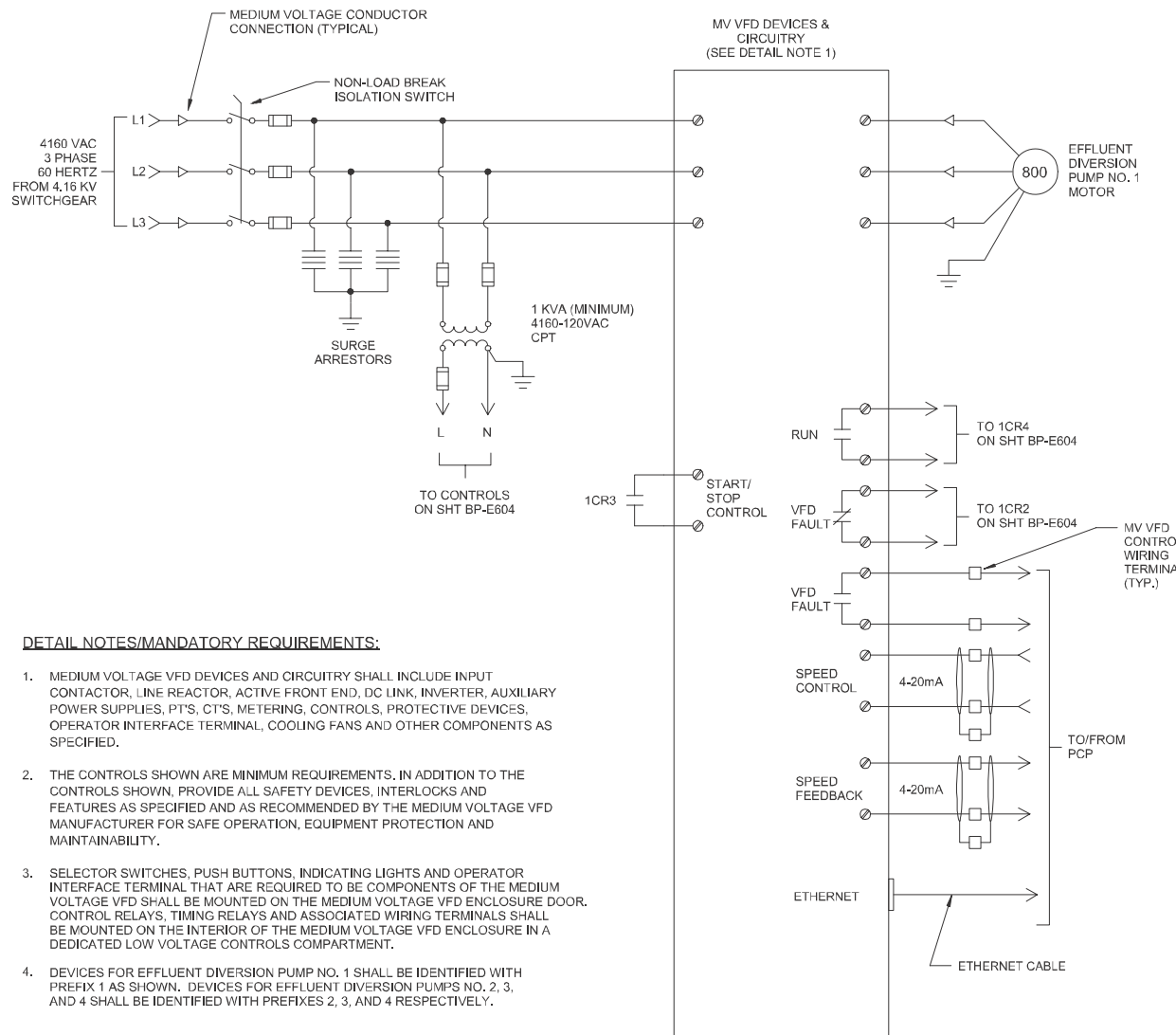
SHEET TITLE

BAY PARK  
 EFFLUENT DIVERSION  
 PUMP STATION  
 MOTOR CONTROL WIRING  
 DIAGRAMS

SCALE:  
 AS NOTED

BP-E603

PAGE 55



**EFFLUENT DIVERSION PUMP NO. 1**

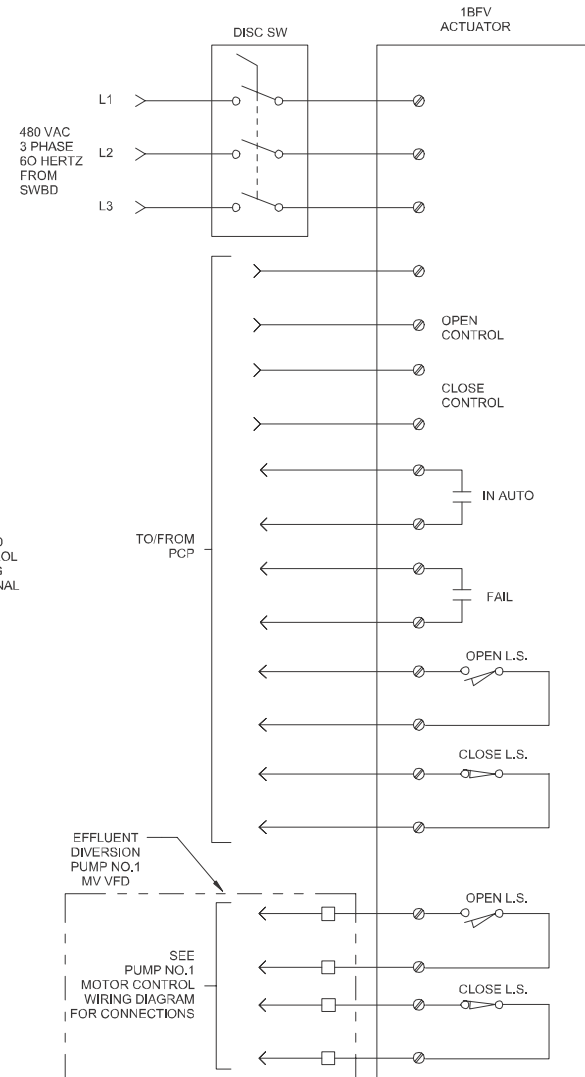
NOT TO SCALE

TYPICAL: EFFLUENT DIVERSION PUMP NO. 2  
 EFFLUENT DIVERSION PUMP NO. 3  
 EFFLUENT DIVERSION PUMP NO. 4

**EFFLUENT DIVERSION PUMP NO.1  
 PLUG VALVE (1BFV)**

NOT TO SCALE

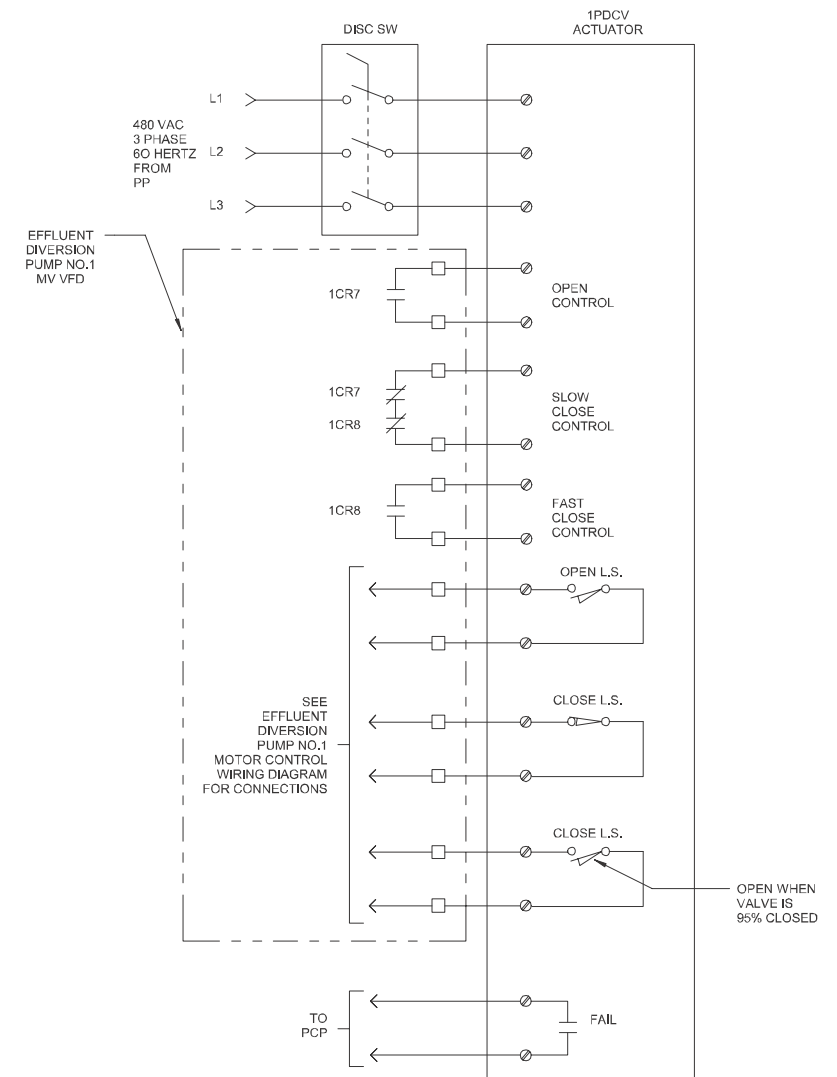
TYPICAL: 2BFV WITH EFFLUENT DIVERSION PUMP NO. 2  
 3BFV WITH EFFLUENT DIVERSION PUMP NO. 3  
 4BFV WITH EFFLUENT DIVERSION PUMP NO. 4



**EFFLUENT DIVERSION PUMP NO.1  
 PUMP DISCHARGE CONTROL VALVE (1PDCV)**

NOT TO SCALE

TYPICAL: 2PDCV WITH EFFLUENT DIVERSION PUMP NO. 2  
 3PDCV WITH EFFLUENT DIVERSION PUMP NO. 3  
 4PDCV WITH EFFLUENT DIVERSION PUMP NO. 4

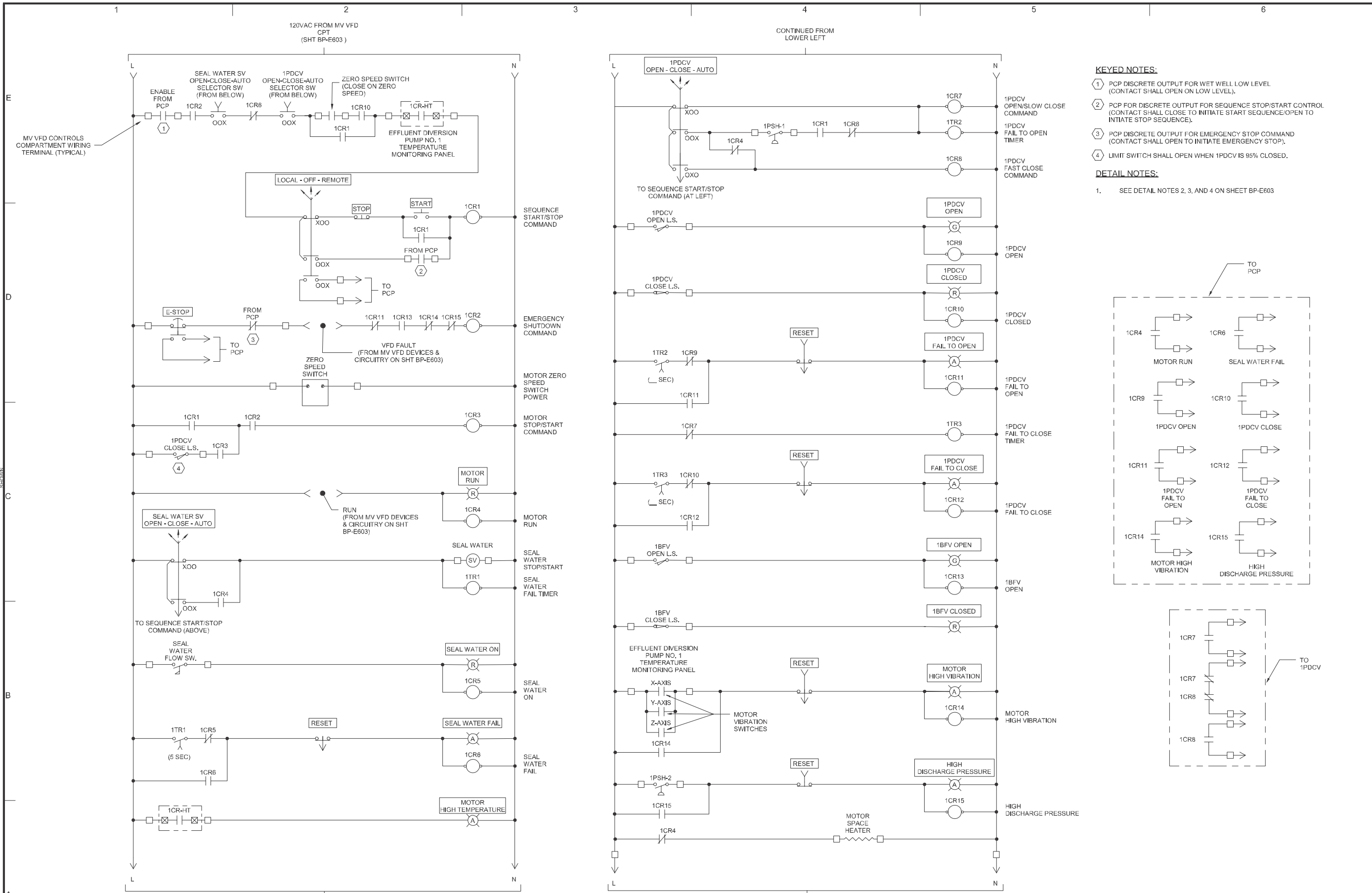


**DETAIL NOTES/MANDATORY REQUIREMENTS:**

- MEDIUM VOLTAGE VFD DEVICES AND CIRCUITRY SHALL INCLUDE INPUT CONTACTOR, LINE REACTOR, ACTIVE FRONT END, DC LINK, INVERTER, AUXILIARY POWER SUPPLIES, PT'S, CT'S, METERING, CONTROLS, PROTECTIVE DEVICES, OPERATOR INTERFACE TERMINAL, COOLING FANS AND OTHER COMPONENTS AS SPECIFIED.
- THE CONTROLS SHOWN ARE MINIMUM REQUIREMENTS. IN ADDITION TO THE CONTROLS SHOWN, PROVIDE ALL SAFETY DEVICES, INTERLOCKS AND FEATURES AS SPECIFIED AND AS RECOMMENDED BY THE MEDIUM VOLTAGE VFD MANUFACTURER FOR SAFE OPERATION, EQUIPMENT PROTECTION AND MAINTAINABILITY.
- SELECTOR SWITCHES, PUSH BUTTONS, INDICATING LIGHTS AND OPERATOR INTERFACE TERMINAL THAT ARE REQUIRED TO BE COMPONENTS OF THE MEDIUM VOLTAGE VFD SHALL BE MOUNTED ON THE MEDIUM VOLTAGE VFD ENCLOSURE DOOR. CONTROL RELAYS, TIMING RELAYS AND ASSOCIATED WIRING TERMINALS SHALL BE MOUNTED ON THE INTERIOR OF THE MEDIUM VOLTAGE VFD ENCLOSURE IN A DEDICATED LOW VOLTAGE CONTROLS COMPARTMENT.
- DEVICES FOR EFFLUENT DIVERSION PUMP NO. 1 SHALL BE IDENTIFIED WITH PREFIX 1 AS SHOWN. DEVICES FOR EFFLUENT DIVERSION PUMPS NO. 2, 3, AND 4 SHALL BE IDENTIFIED WITH PREFIXES 2, 3, AND 4 RESPECTIVELY.

User: Spec: File: C:\Users\lunamw\OneDrive\Documents\BP-E603-3D-REVIT 2019\lunamw\lunamw.dwg Scale: AS SHOWN Date: 10/22/2019 3:36:41 PM Plot Date: 10/22/2019 3:36:41 PM

User: Spec: File: C:\Users\lunaw\Documents\BAYPARK-3D-REMIT 201\lunaw\lunaw.dwg Date: 10/22/2019 3:36:43 PM Scale: AS

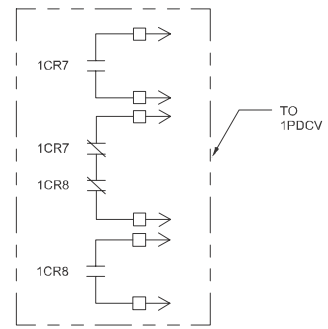
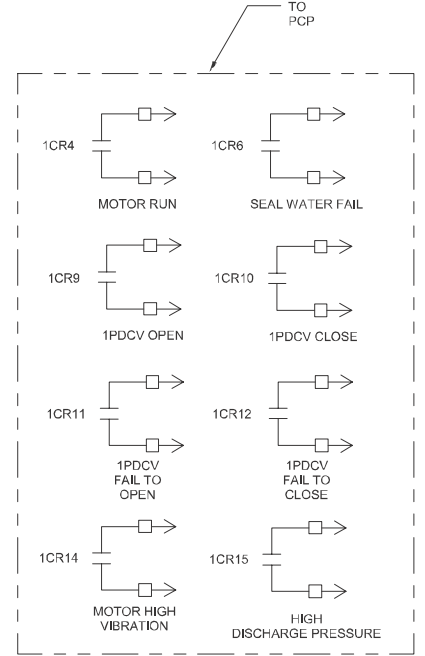


CONTINUED AT UPPER RIGHT

CONTINUED FROM LOWER LEFT

TO EFFLUENT DIVERSION PUMP NO. 1 TEMPERATURE MONITORING PANEL

- KEYED NOTES:**
- PCP DISCRETE OUTPUT FOR WET WELL LOW LEVEL (CONTACT SHALL OPEN ON LOW LEVEL).
  - PCP FOR DISCRETE OUTPUT FOR SEQUENCE STOP/START CONTROL (CONTACT SHALL CLOSE TO INITIATE START SEQUENCE/OPEN TO INITIATE STOP SEQUENCE).
  - PCP DISCRETE OUTPUT FOR EMERGENCY STOP COMMAND (CONTACT SHALL OPEN TO INITIATE EMERGENCY STOP).
  - LIMIT SWITCH SHALL OPEN WHEN 1PDCV IS 95% CLOSED.
- DETAIL NOTES:**
- SEE DETAIL NOTES 2, 3, AND 4 ON SHEET BP-E603



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
 DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED BY THE FINAL 'RELEASED FOR CONSTRUCTION' SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	OCTOBER 2019		
PROJECT NO.:	71681		
APPROVED BY:	J. DOMANSKI		
DESIGNED BY:	J. CROSIER		
DRAWN BY:	J. CLARK		
CHECKED BY:	J. CROSIER		

NASSAU COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC WORKS  
 OCEAN OUTFALL EFFLUENT DIVERSION PROJECT

**SHEET TITLE**  
 BAY PARK  
 EFFLUENT DIVERSION  
 PUMP STATION  
**MOTOR CONTROL WIRING  
 DIAGRAM**

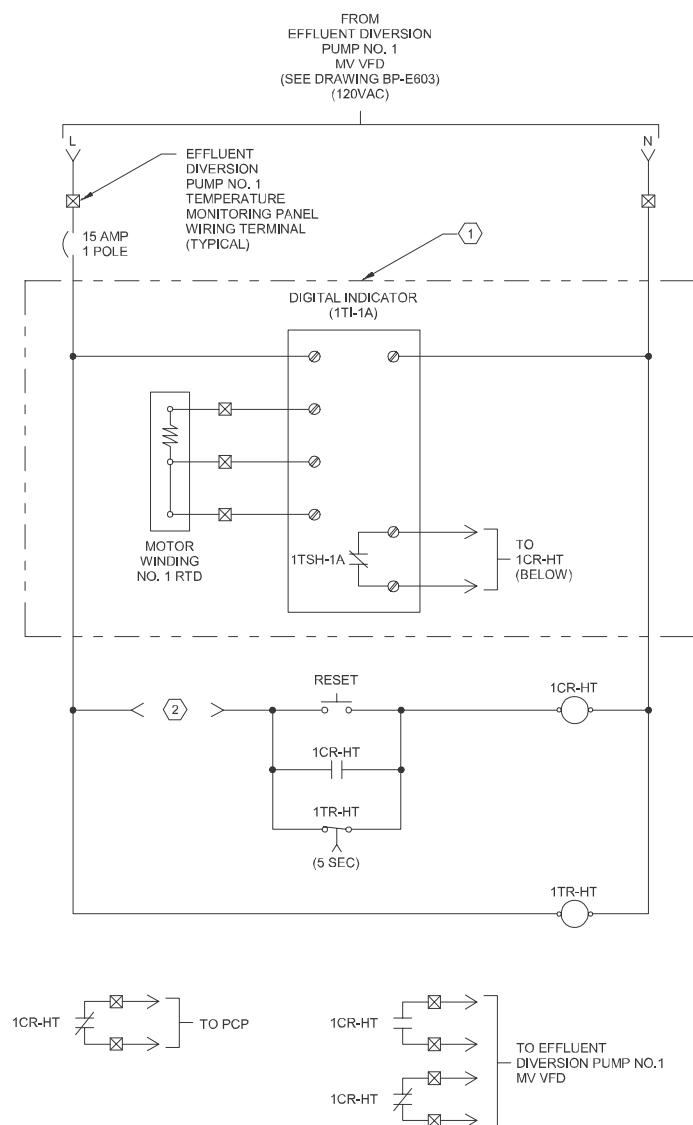
SCALE: AS NOTED

**BP-E604**  
 PAGE 56

**EFFLUENT DIVERSION PUMP NO. 1 VFD CONTROL DIAGRAM**  
 NOT TO SCALE

TYPICAL: EFFLUENT DIVERSION PUMP NO. 2 VFD  
 EFFLUENT DIVERSION PUMP NO. 3 VFD  
 EFFLUENT DIVERSION PUMP NO. 4 VFD

User: Spec: File: C:\Users\lunamw\RAMBOLL\Documents\BP-E605\3D-RE-IT 201\lunamuray@bgs.com.rvt  
 Scale: AS SHOWN  
 Date: 10/22/2019 3:36:44 PM  
 Plot Date: 10/22/2019 3:36:44 PM

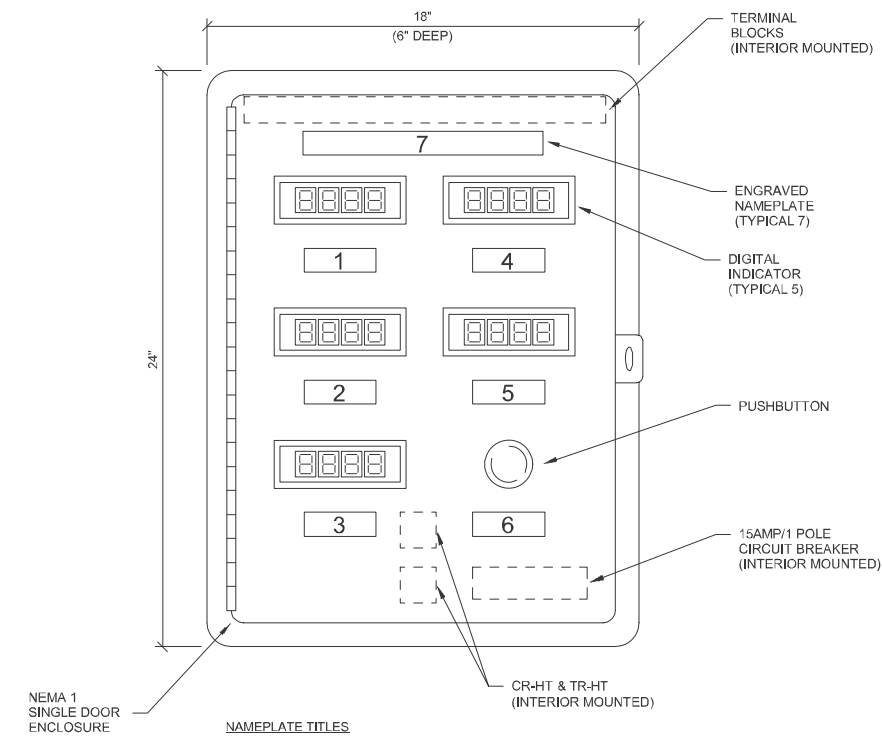


- KEYED NOTES:**
- ① DEVICES AND WIRING SHALL BE TYPICAL FOR THE FOLLOWING:
    - MOTOR WINDING NO.2 RTD WITH 1TI-1B/TSH-1B.
    - MOTOR WINDING NO.3 RTD WITH 1TI-1C/TSH-1C.
    - MOTOR TOP BEARING RTD WITH 1TI-1D/TSH-1D.
    - MOTOR BOTTOM BEARING RTD WITH 1TI-1E/TSH-1E.
  - ② PROVIDE SERIES CONNECTION OF N.C. CONTACTS 1TSH-1A, 1TSH-1B, 1TSH-1C, 1TSH-1D AND 1TSH-1E.

### EFFLUENT DIVERSION PUMP NO. 1 TEMPERATURE MONITORING PANEL

NOT TO SCALE

TYPICAL: EFFLUENT DIVERSION PUMP NO. 2 TEMPERATURE MONITORING PANEL  
 EFFLUENT DIVERSION PUMP NO. 3 TEMPERATURE MONITORING PANEL  
 EFFLUENT DIVERSION PUMP NO. 4 TEMPERATURE MONITORING PANEL



- NAMEPLATE TITLES**
1. MOTOR WINDING NO. 1
  2. MOTOR WINDING NO. 2
  3. MOTOR WINDING NO. 3
  4. MOTOR TOP BEARING
  5. MOTOR BOTTOM BEARING
  6. RESET
  7. EFFLUENT DIVERSION PUMP NO. 1 TEMPERATURE MONITORING PANEL

### EFFLUENT DIVERSION PUMP NO. 1 TEMPERATURE MONITORING PANEL DETAIL

NOT TO SCALE

TYPICAL: EFFLUENT DIVERSION PUMP NO. 2 TEMPERATURE MONITORING PANEL  
 EFFLUENT DIVERSION PUMP NO. 3 TEMPERATURE MONITORING PANEL  
 EFFLUENT DIVERSION PUMP NO. 4 TEMPERATURE MONITORING PANEL



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
 DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED BY THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE: OCTOBER 2019  
 PROJECT NO.: 71681  
 APPROVED BY: J. DOMANSKI  
 DESIGNED BY: J. CROSIER  
 DRAWN BY: J. CLARK  
 CHECKED BY: J. CROSIER

NASSAU COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC  
 WORKS  
  
 OCEAN OUTFALL EFFLUENT  
 DIVERSION PROJECT

SHEET TITLE

BAY PARK  
 EFFLUENT DIVERSION  
 PUMP STATION  
 MOTOR CONTROL WIRING  
 DIAGRAMS

SCALE: AS NOTED

**BP-E605**  
 PAGE 57



GENERAL NOTES/MANDATORY REQUIREMENTS:

- REFER TO CIVIL DRAWINGS PREPARED BY HAZEN & SAWYER (PROJECT# H&S 90500-A08-500) FOR EXISTING MANHOLE AND HAND HOLE LOCATIONS.
- ALL SPLICE KITS SHALL BE SUBMERSIBLE TYPE RATED FOR MIN. 20' DEPTH.
- LENGTHS INDICATED ARE APPROXIMATE. CONTRACTOR TO CONFIRM LENGTH INFIELD.
- CONTRACTOR SHALL PROVIDE 2-4 STRAND SINGLE MODE FIBER FROM EXISTING FACP IN THE POWER HOUSE TO THE NEW FACP IN NEW DIVERSION PUMP BUILDING. CONTRACTOR SHALL USE TWO(2) EXISTING SPACE & SEPERATE CONDUITS FOR THE STYLE 7 LOOP AS REQUIRED BY NFPA. TWO(2) SPARE CONDUITS SHALL BE DEDICATED FOR NEW FIRE ALARM FIBER. IF TWO (SPARE) CONDUITS FOR FIRE ALARM SYSTEM DO NOT EXIST REFER TO CODED NOTE #10 ON THIS DRAWING.

KEY NOTES:

- USE EXISTING SPARE BREAKERS A14 AND B14 TO FEED NEW 5KV DIVERSION PUMP SWGR S3. BREAKERS TO BE SET AT 500 AMP TRIP.
- USE EXISTING SPARE 5" RACEWAY IN DUCT BANK INSTALLED UNDER CONTRACT S35121-14F. PROVIDE NEW 5KV CONDUCTORS 3#500MCM + #1/0G TYPE MV-105 SHIELDED POWER CABLE.
- TWO (2) SPARE 5" CONDUITS ENTER CUBICLE #3 UPPER FOR BREAKER A14.
- TWO (2) SPARE 5" CONDUITS ENTER CUBICLE #27 UPPER FOR BREAKER B14.
- PROVIDE NEW DUCT BANK WITH TWO (2) 5" RACEWAYS WITH NEW 5KV CONDUCTORS 3#500 MCM + #1/0 G TYPE MV-105 SHIELDED POWER CABLE AND (2) 5" RACEWAYS SPARE.
- MAIN 5KV SWITCHES FOR DIVERSION PUMP SWGR S3 SHALL BE SET A 500 AMP TRIP BASED ON A LOAD CONSISTING OF (3) 800 HP DIVERSION PUMPS AND A 750 KVA 4160V PRIMARY/480 SECONDARY TRANSFORMER.
- UTILIZE EXISTING SPARE CONTROL CONDUITS. COORDINATE IN FIELD.
- PROVIDE DUCT BANK WITH (2) 4" RACEWAYS FOR COMMUNICATIONS CABLING.
- PROVIDE FIBER TO COPPER CONNECTION IN EXISTING FACP. REPROGRAM EXISTING FACP AS REQUIRED. NEW FACP SHALL MATCH EXISTING FACP.
- THE CONTRACTOR SHALL PROVIDE ADD/ALTERNATE PRICE FOR NEW CONCRETE ENCASED DUCT BANK BETWEEN EXISTING POWER HOUSE AND NEW FACP FOR DIMENSION PUMP BUILDING. ALL HAVEL HOLES SHALL BE HS-20 RATED.
- PROVIDE SPLICE OF 5KV CONDUCTORS IN THIS MANHOLE.

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

FINAL DESIGN CRITERIA PACKAGE			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	ES-001		
DESIGNED BY:	PS		
DRAWN BY:	PS		
CHECKED BY:	RO		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

BAY PARK FORCE MAIN

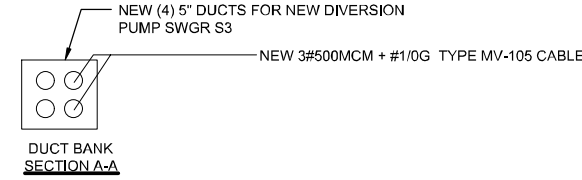
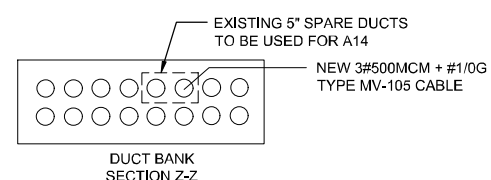
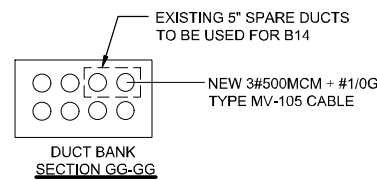
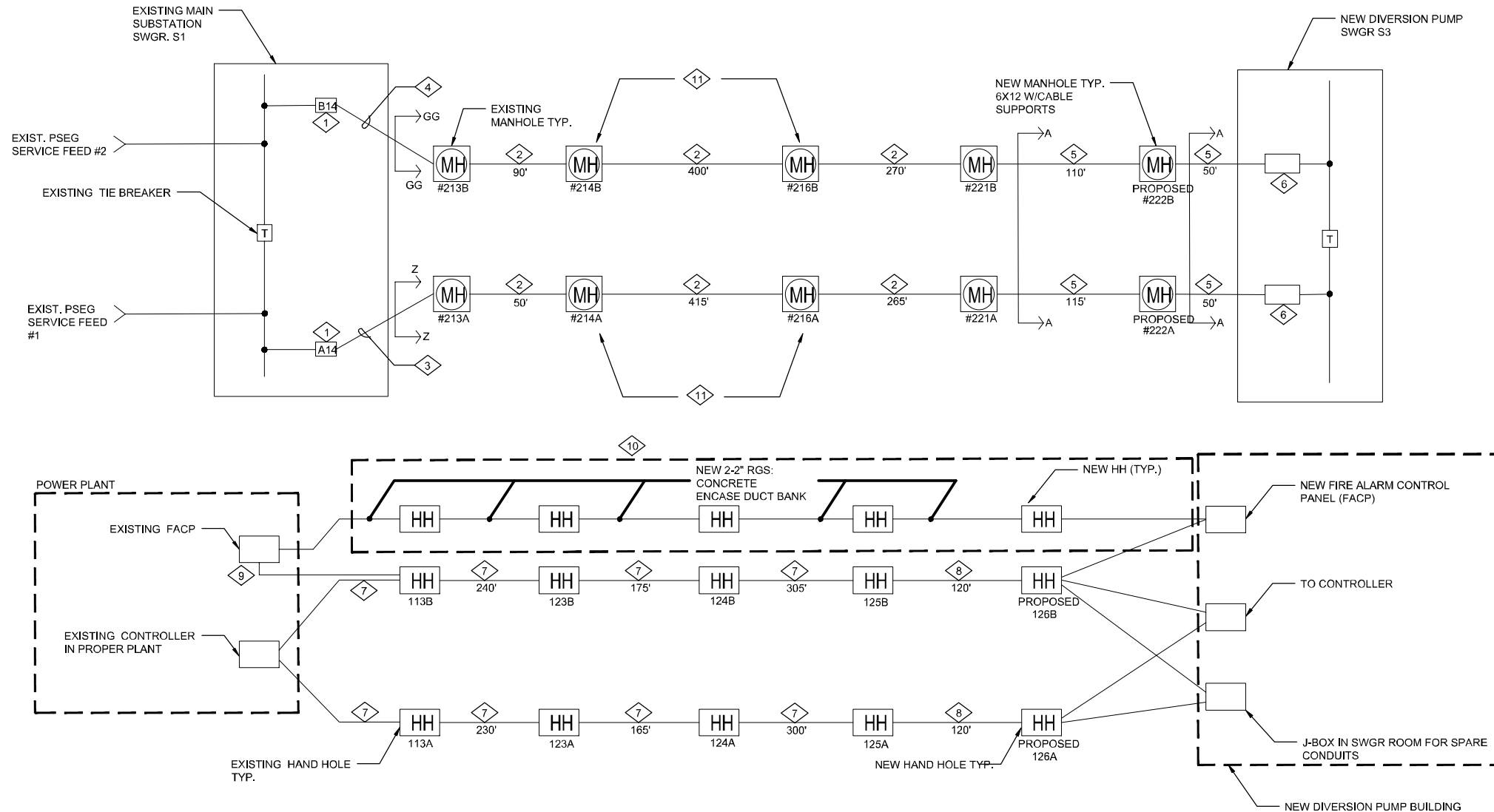
BAY PARK EFFLUENT  
DIVERSION PUMP STATION

ELECTRICAL BLOCK  
DIAGRAM

SCALE: NOT TO SCALE

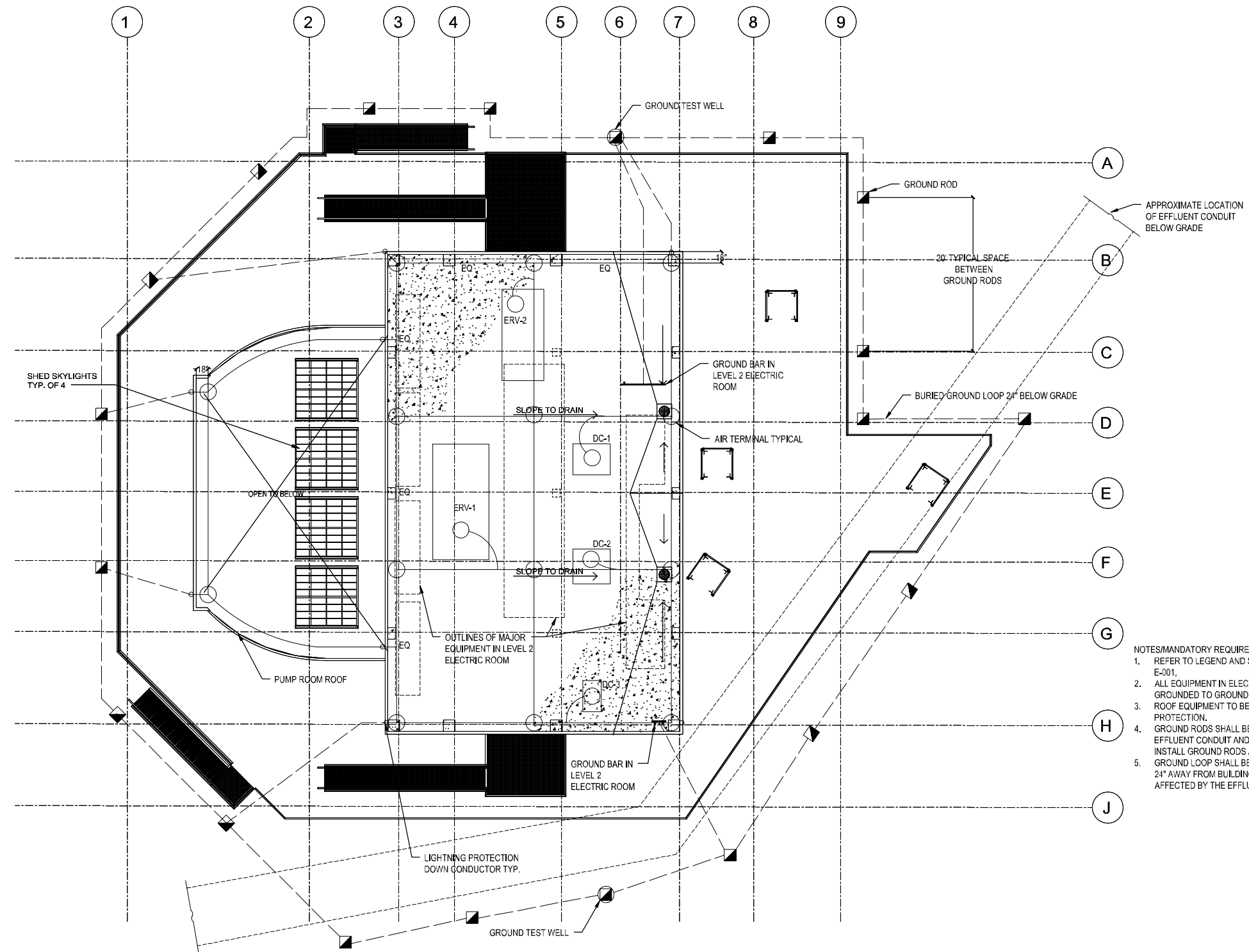
BP-ES001

PAGE 58



User:ABDA\_SmacAUCSACSMCD File:C:\BMS\WSP-PS-05-PM-02\WSP\_A\LABID\DWG\BMS\BMS-001.DWG Scale:1/8 SavedDate:12/10/2019 Time:10:16 Pm Date:And. Nr. 3/10/2020, 11:42 Layout:ES00





**BAY PARK PUMP STATION - ROOF LEVEL**

1/8" = 1'-0"

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	EG-001		
DESIGNED BY:	PS		
DRAWN BY:	PS		
CHECKED BY:	RO		

- NOTES/MANDATORY REQUIREMENTS:
- REFER TO LEGEND AND SYMBOLS ON DRAWING E-001.
  - ALL EQUIPMENT IN ELECTRIC ROOM TO BE GROUNDED TO GROUND BARS IN THAT ROOM.
  - ROOF EQUIPMENT TO BE BONDED TO LIGHTNING PROTECTION.
  - GROUND RODS SHALL BE LOCATED CLEAR OF EFFLUENT CONDUIT AND SITE UTILITIES. DO NOT INSTALL GROUND RODS ABOVE EFFLUENT CONDUIT.
  - GROUND LOOP SHALL BE BURIED APPROXIMATELY 24" AWAY FROM BUILDING OUTLINE EXCEPT WHERE AFFECTED BY THE EFFLUENT CONDUIT.

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE  
BAY PARK FORCE MAIN  
BAY PARK EFFLUENT  
DIVERSION PUMP STATION  
ROOF LEVEL LIGHTNING  
AND GROUNDING PLAN

SCALE: AS SHOWN

BP-EG001

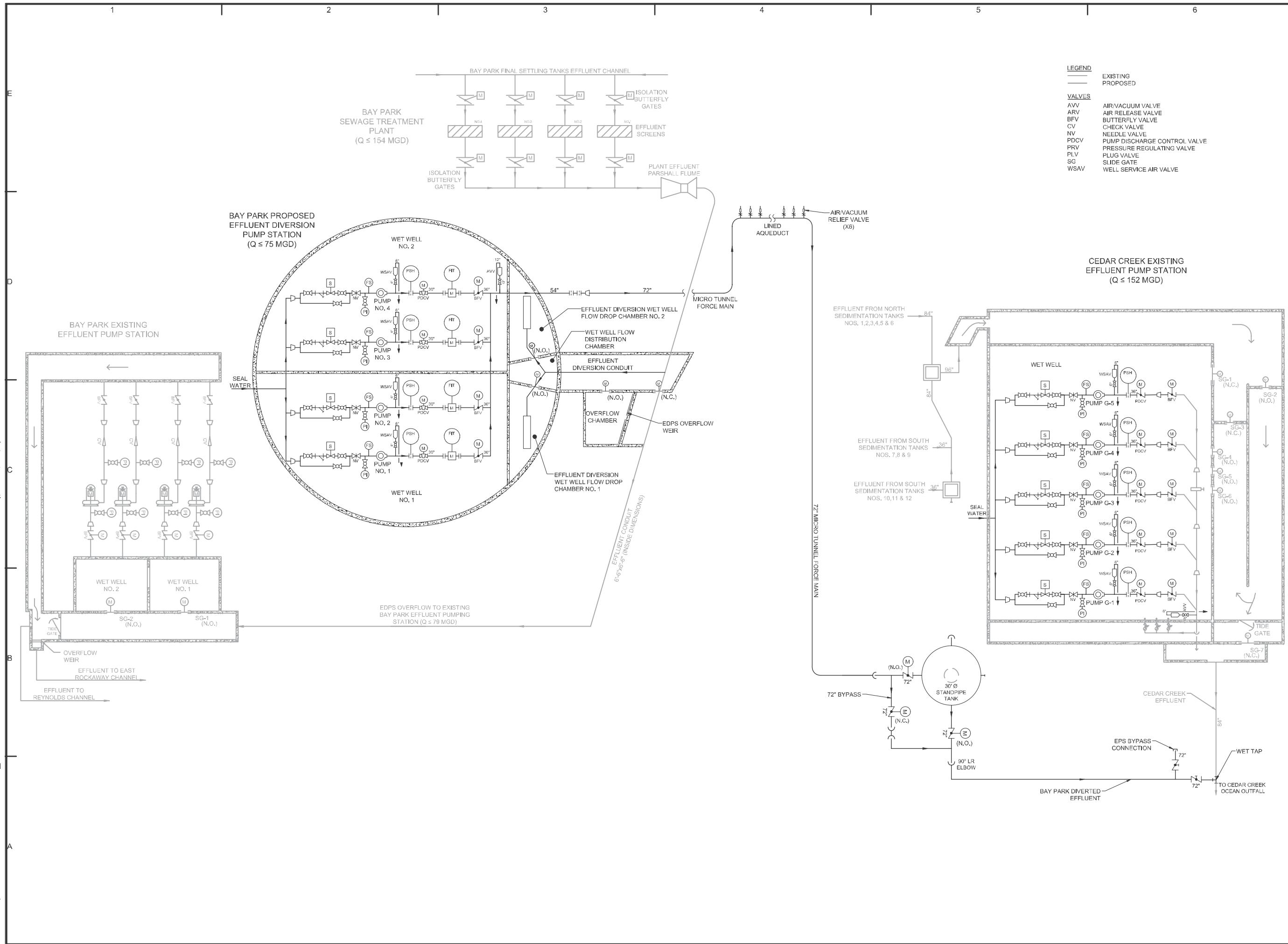
PAGE 59



User: ARBDA-SpecAUCS-NCPD File: C:\BMS\WSP-PB-US-PW-02\WSP\_A\LABID\BMS\B16\EG-001.DWG Scale: 1/8" = 1'-0" Saved Date: 12/10/2019 Time: 10:16 PM Date: 04/20/2020 11:43 Layout: E-103



- LEGEND**
- EXISTING
  - - - PROPOSED
- VALVES**
- AVV AIR/VACUUM VALVE
  - ARV AIR RELEASE VALVE
  - BFV BUTTERFLY VALVE
  - CV CHECK VALVE
  - NV NEEDLE VALVE
  - PDCV PUMP DISCHARGE CONTROL VALVE
  - PRV PRESSURE REGULATING VALVE
  - PLV PLUG VALVE
  - SG SLIDE GATE
  - WSAV WELL SERVICE AIR VALVE



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	OCTOBER 2019		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	BPCC-M001		
DESIGNED BY:	A. STEINHAUER		
DRAWN BY:	J. OWENS		
CHECKED BY:	A. STEINHAUER		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

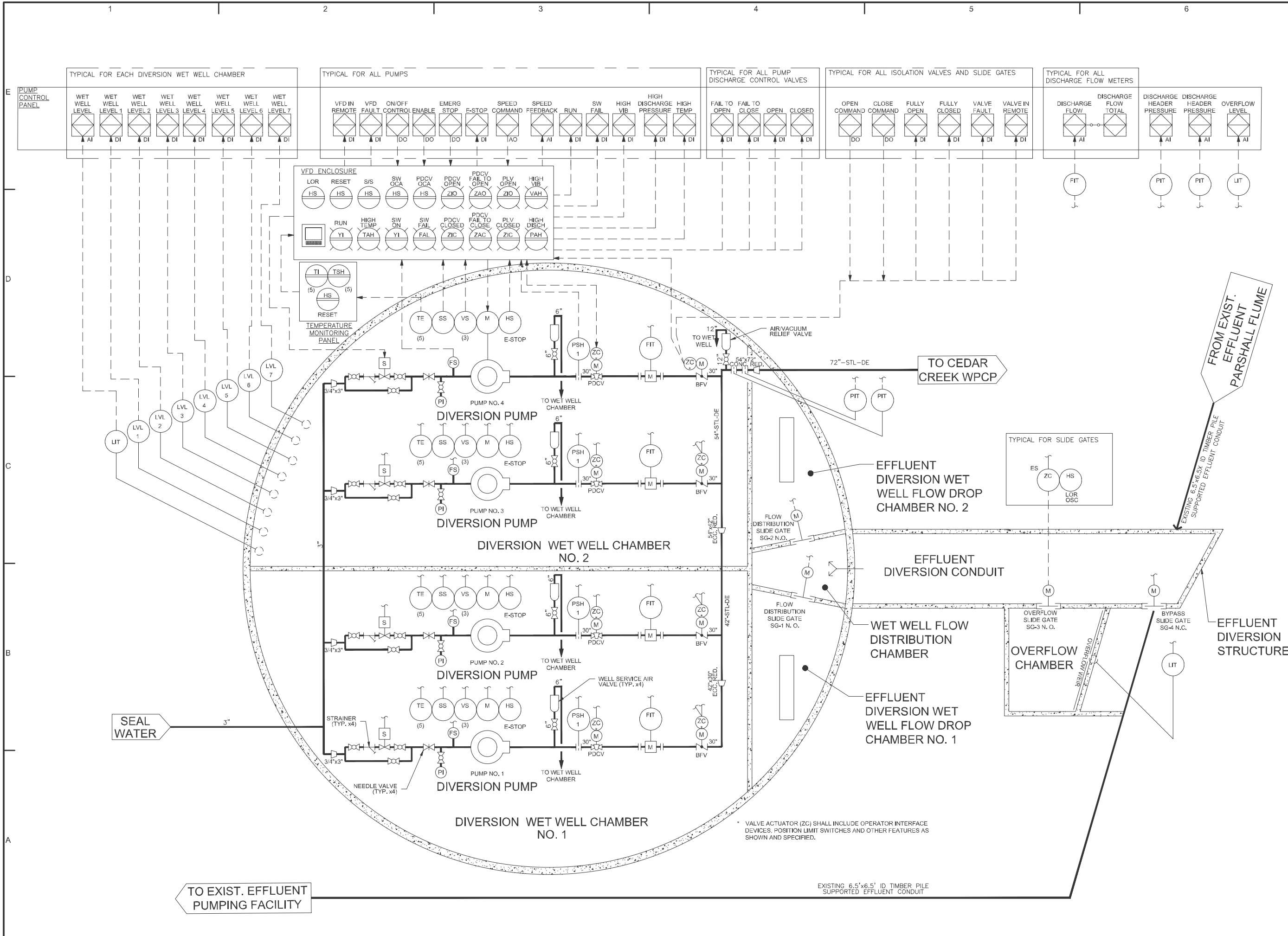
**BAY PARK EFFLUENT DIVERSION  
PUMP STATION AND CEDAR CREEK  
EXISTING EFFLUENT PUMP STATION  
PROCESS FLOW DIAGRAM**

SCALE: AS SHOWN

BPCC-M001

PAGE 60

User: LARAMAY, Spec: AUS-CNSMCD, File: C:\BMS\WSP-PB-US-FW-2\03G\_TOM.LARAMAY-DMS\8187\BPCC-M001-DWG Scale: 1:1, Saved Date: 10/22/2019 10:38:10, Pbr Date: Tom Laramay, 10/22/2019 10:38:10, Layout: BPCC-M001



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN/BUILDER. ALL DIMENSIONS AND INFORMATION ON COSTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN/BUILDER.

NO.	DATE	ISSUED FOR	BY

FINAL DESIGN CRITERIA PACKAGE			
DATE:	OCTOBER 2019		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	BP-1601		
DESIGNED BY:	A. STEINHAUER		
DRAWN BY:	J. OWENS		
CHECKED BY:	F. PULIDO		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS  
  
OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

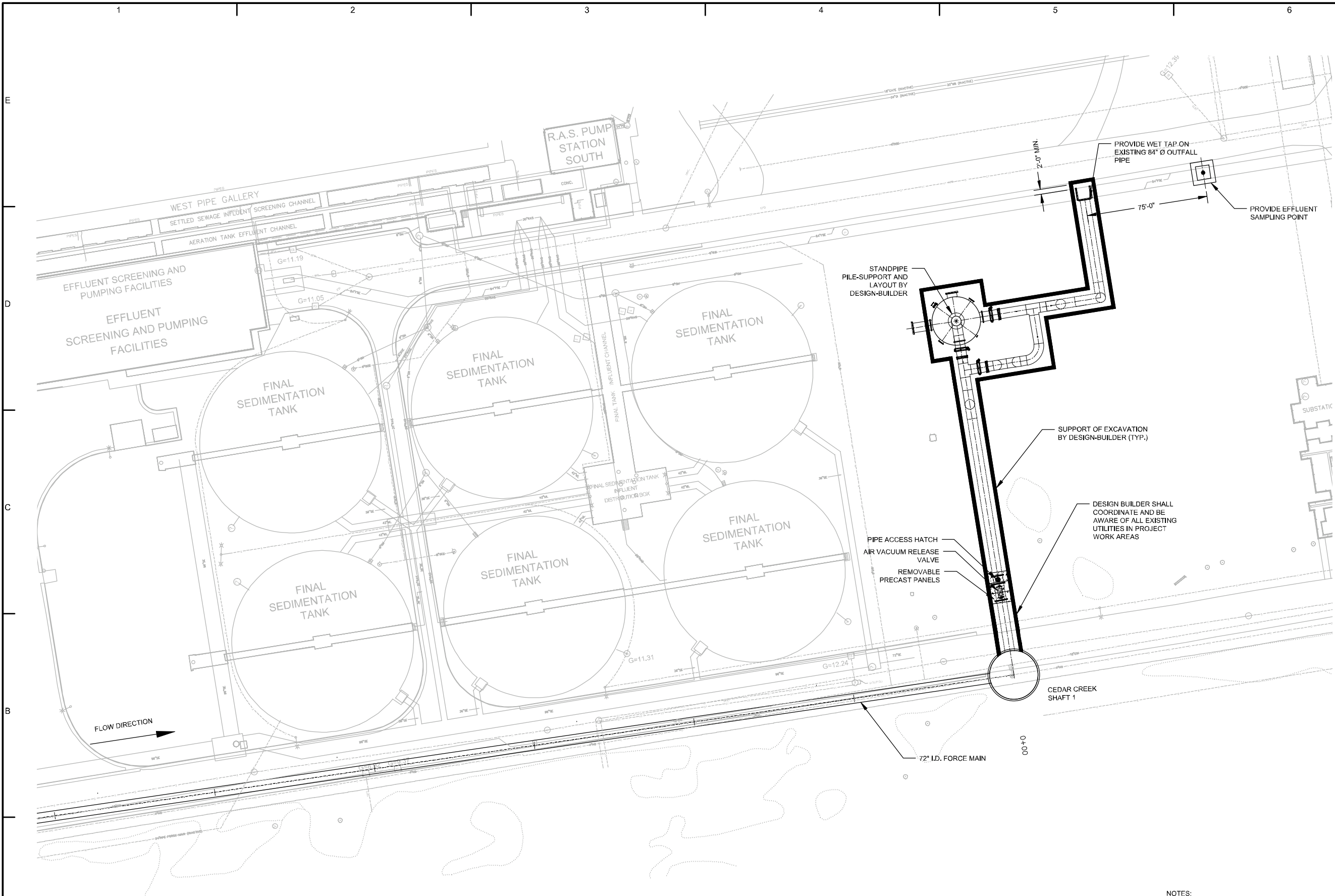
SHEET TITLE  
  
BAY PARK  
EFFLUENT DIVERSION  
PUMP STATION  
EFFLUENT DIVERSION  
PUMPING STATION  
P&ID

SCALE: AS SHOWN  
  
BP-1601  
  
PAGE 61

User: MORALESI, Spec: AUS-NSMOD, File: CBMS\WSP-PB-US-PW-02\WSP\_02\MORALESI\0126221BP-1601.DWG, Scale: 1:1, 11/12/2019 11:24, Layout: BP-1601







**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	CC-C101		
DESIGNED BY:	X. ZONG		
DRAWN BY:	R. CAESAR		
CHECKED BY:	R. JAIN		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS  
  
OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE  
**CEEDAR CREEK FORCE MAIN  
  
WORK PLAN**

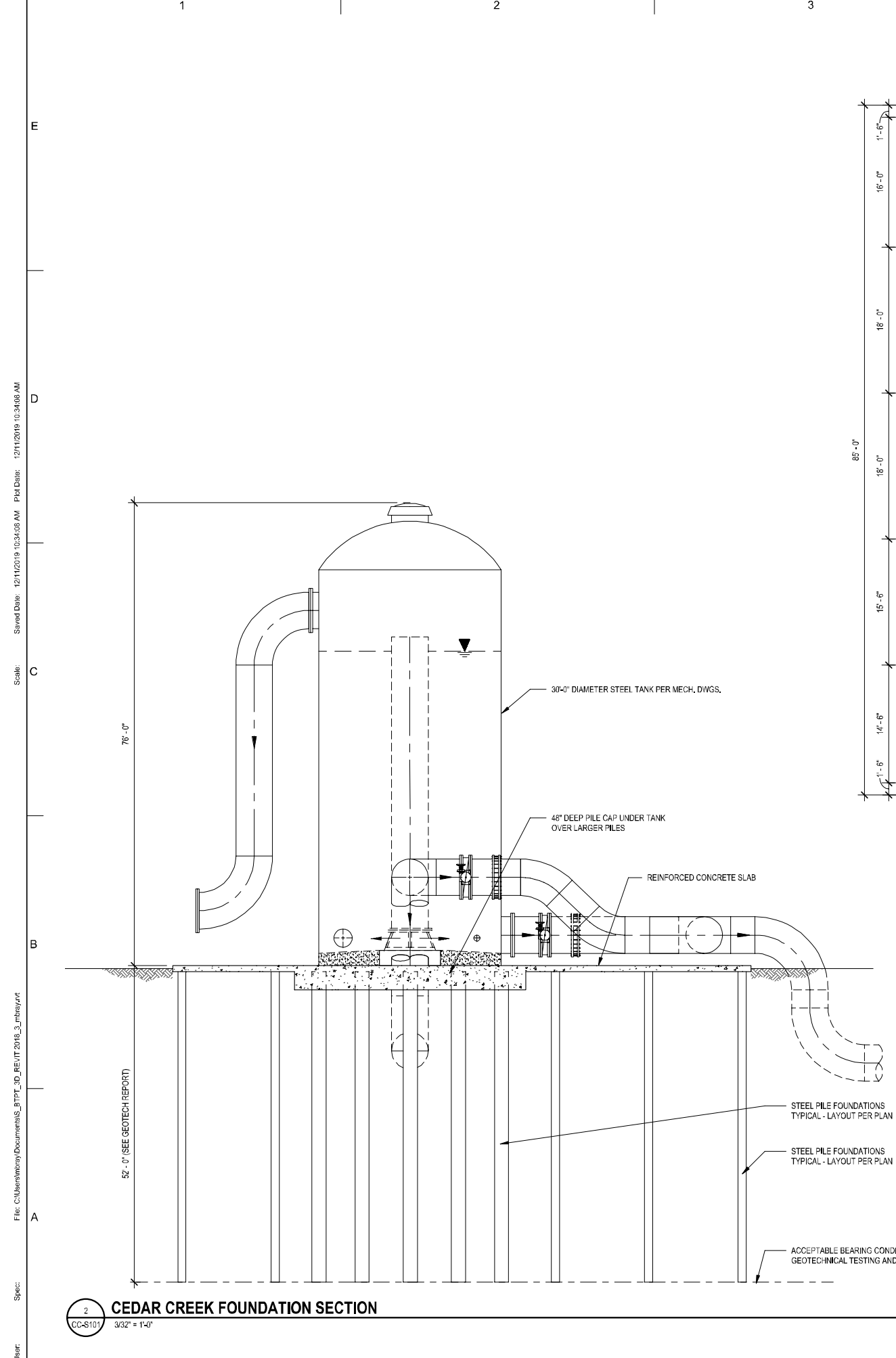
SCALE: AS SHOWN

**CC-C101**  
PAGE 63

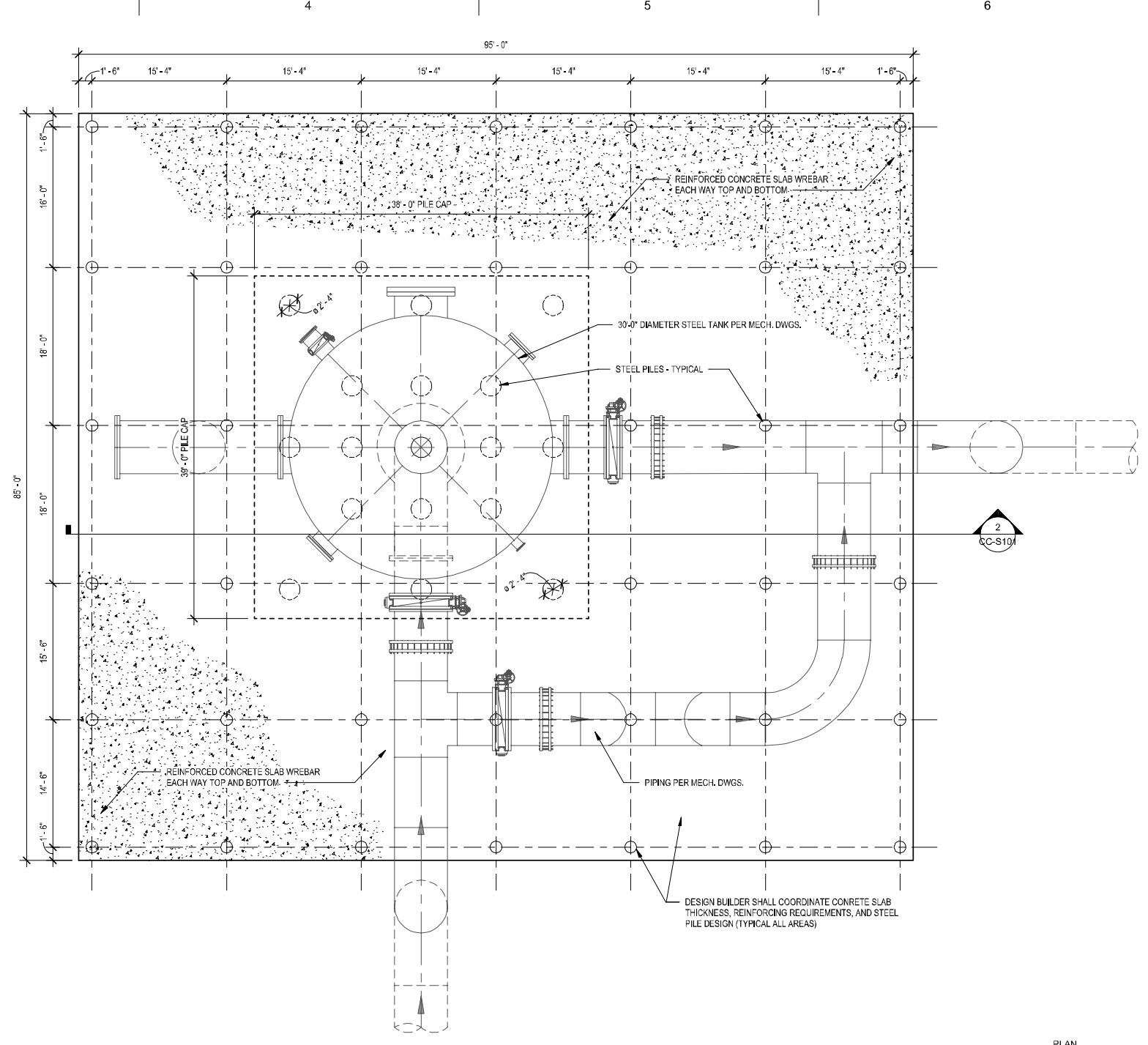
**CEEDAR CREEK FACILITY**  
1" = 30'-0"  
0 30 60

- NOTES:
- DESIGN-BUILDER SHALL LOCATE FACILITIES FOR EASE OF MAINTENANCE ACCESS AND TO PROVIDE AS MUCH SPACE AS PRACTICAL FOR FUTURE DEVELOPMENT.
  - LAYOUT SHALL BE SUBJECT TO REVIEW AND APPROVAL BY NASSAU COUNTY DPW.
  - DESIGN-BUILDER SHALL DESIGN AND INSTALL WATERPROOFING AND SEAL INTERFACES. DETAIL SHALL BE SUBMITTED TO THE OWNER FOR REVIEW AND APPROVAL.

User: SHERY\Spec-AUS\NCS\MOD File: C:\BIS\WSP-PB-US-PN-20\WSP...\_VECTOR\_SHEET\1045616100CC-C101.DWG Scale: 1:30.00 Saved Date: 3/26/2020 Time: 10:35 Plot Date: SHERY, Victor, 3/26/2020, 15:38 Layout: CC-C101



**2 CEDAR CREEK FOUNDATION SECTION**  
 CC-S101 3/32" = 1'-0"



**1 CEDAR CREEK - FOUNDATION PLAN**  
 CC-S101 1/8" = 1'-0"

User: C:\Users\mry\Documents\BPTT\_3D\_REV\VT 2018\_3\_mbray.rvt  
 Spec: C:\Users\mry\Documents\BPTT\_3D\_REV\VT 2018\_3\_mbray.rvt  
 Scale: 12/11/2019 10:34:08 AM Plot Date: 12/11/2019 10:34:08 AM  
 Saved Date: 12/11/2019 10:34:08 AM Plot Date: 12/11/2019 10:34:08 AM



**PRELIMINARY  
 NOT FOR  
 CONSTRUCTION**  
 DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED, REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN            CRITERIA PACKAGE</b>			
DATE:	OCTOBER 2019		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	CC-S101		
DESIGNED BY:	T. EFFA		
DRAWN BY:	M. BRAY		
CHECKED BY:	J. CIURZYNSKI		

NASSAU COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC  
 WORKS  
 OCEAN OUTFALL  
 EFFLUENT DIVERSION  
 PROJECT

SHEET TITLE  
 CEDAR CREEK WATER  
 POLLUTION CONTROL PLANT  
 STRUCTURAL  
 STANDPIPE AND RECEIVING  
 TANK FOUNDATION PLAN  
 AND SECTION

SCALE:  
 AS NOTED  
**CC-S101**  
 PAGE 64

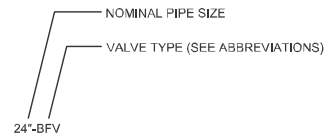
**GENERAL MECHANICAL NOTES (APPLY TO ALL MECHANICAL DRAWINGS)**

- REFER TO APPLICABLE TECHNICAL SPECIFICATIONS FOR MATERIALS AND INSTALLATION REQUIREMENTS.
- COUPLINGS SHOWN ON THE DRAWINGS ARE REQUIRED FOR REMOVAL OF EQUIPMENT AND PIPING BY THE OWNER AFTER COMPLETION OF THE WORK. ADDITIONAL COUPLINGS MAY BE REQUIRED TO FACILITATE INSTALLATION BY THE DESIGN/BUILD CONTRACTOR.
- PROVIDE HARNESSING FOR ALL COUPLINGS, UNLESS OTHERWISE INDICATED.
- IN GENERAL, SMALL DIAMETER PIPING (I.E., 2-1/2" AND SMALLER) IS SHOWN FOR GENERAL LAYOUT PURPOSES ONLY, AND IS NOT INTENDED TO SHOW EXACT ALIGNMENT, NUMBER OF FITTINGS, VALVES AND APPURTENANCES. ALL PIPING, FITTINGS AND APPURTENANCES SHALL BE PROVIDED AS SPECIFIED OR SHOWN ON APPLICABLE DRAWINGS AND DIAGRAMS, AND AS REQUIRED FOR A COMPLETE INSTALLATION. ACTUAL PIPE ROUTING SHALL BE DETERMINED BY THE DESIGN/BUILD CONTRACTOR SUBJECT TO REVIEW BY THE OWNER'S AGENT, AND SHALL BE COORDINATED TO AVOID CONFLICTS WITH EXISTING AND NEW WORK OF ELECTRICAL, HVAC AND PLUMBING SYSTEMS, AND SO AS NOT TO INTERFERE WITH ACCESS TO OR OPERATION OF ANY OTHER PIPE, VALVE OR EQUIPMENT. SMALL DIAMETER PIPING SYSTEMS SHALL BE LAID OUT AND INSTALLED IN AN ORGANIZED, NEAT AND WORKMANLIKE MANNER.
- PIPE SIZES SHOWN MAY NOT BE THE SAME AS SIZES OF CONNECTIONS TO THE EQUIPMENT SUPPLIED. PROVIDE ALL NECESSARY REDUCERS, BUSHINGS AND APPURTENANCES REQUIRED TO MAKE EQUIPMENT CONNECTIONS.
- REPAIR INTERIOR AND EXTERIOR PIPE COATINGS DAMAGED DURING INSTALLATION.
- DESIGN/BUILD CONTRACTOR SHALL RETAIN THE SERVICES OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK TO DESIGN PIPE SUPPORT SYSTEMS FOR ALL PIPING PROVIDED UNDER THIS PROJECT. PIPE SUPPORT SYSTEMS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS BASED ON THE PIPING LAYOUT DESIGNED AND PROVIDED BY THE DESIGN/BUILD CONTRACTOR AND AS APPROVED BY THE OWNER'S AGENT.
- SEE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, HVAC AND PLUMBING DRAWINGS FOR RELATED INSTALLATIONS TO BE PERFORMED UNDER THIS PROJECT AND COORDINATE ALL INSTALLATION WORK.
- PROVIDE NEW GASKETS AND HARDWARE AT ALL CONNECTIONS BETWEEN NEW AND EXISTING PIPING AND AT ALL PIPE JOINTS DISASSEMBLED IN CONNECTION WITH THIS PROJECT.

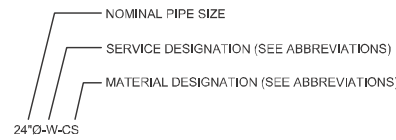
**GENERAL DEMOLITION NOTES:**

- SEE STRUCTURAL, ELECTRICAL, HVAC AND PLUMBING DRAWINGS FOR RELATED REMOVALS AND DEMOLITION TO BE PERFORMED UNDER THIS PROJECT AND COORDINATE ALL DEMOLITION WORK.
- ALL DEMOLITION SHOWN ON DRAWINGS SHALL BE PERFORMED BY THE DESIGN/BUILD CONTRACTOR.
- ALL WALL, FLOOR AND ROOF OPENINGS RESULTING FROM DEMOLITION WORK SHALL BE PROPERLY SEALED. FIREWALL PENETRATIONS SHALL BE SEALED TO MAINTAIN APPROPRIATE FIRE RATING. BELOW GRADE AND WET AREA PENETRATIONS SHALL BE SEALED WATERTIGHT.
- UNLESS OTHERWISE NOTED OR SPECIFIED, ALL MATERIALS REMOVED OR DEMOLISHED UNDER THIS PROJECT SHALL BE LEGALLY DISPOSED OF OFF-SITE BY THE DESIGN/BUILD CONTRACTOR. WHERE SPECIFICALLY REQUESTED, CERTAIN ITEMS OF EQUIPMENT SHALL BE TURNED OVER TO OWNER.
- SCHEDULE AND SEQUENCE OF REMOVAL AND DEMOLITION WORK SHALL BE IN ACCORDANCE WITH CONSTRAINTS STIPULATED IN THE FINAL DESIGN CRITERIA DOCUMENTS.
- UNLESS OTHERWISE NOTED, FOR EXISTING MECHANICAL EQUIPMENT INDICATED FOR REMOVAL, REMOVAL SHALL INCLUDE DEMOLITION OF EXISTING ANCHOR BOLTS AND CONCRETE BASE PAD, AND REPAIR OF CONCRETE FLOOR TO MATCH CONDITION OF SURROUNDING FLOOR.
- UNLESS OTHERWISE NOTED, REMOVAL OF EXISTING INTERIOR PIPING SYSTEMS SHALL INCLUDE REMOVAL OF INSULATION, HANGERS, SUPPORTS, ANCHORS, FIXTURES AND ACCESSORIES. ANY EMBEDDED HARDWARE OR ANCHORS SHALL BE CUT FLUSH WITH WALL, FLOOR OR SLAB SURFACE AND PATCHED APPROPRIATELY.
- OWNER'S AGENT WILL IDENTIFY EQUIPMENT TO BE SALVAGED. CONTRACTOR SHALL REMOVE AND PROTECT EQUIPMENT TO BE SALVAGED AND DELIVER TO OWNER. DESIGN/BUILD CONTRACTOR SHALL SECURE AND STORE EQUIPMENT UNTIL OWNER CAN TAKE DELIVERY.
- FOR CLARITY, EXISTING FACILITIES AND PIPING ARE GENERALLY SHOWN LIGHT. NEW FACILITIES AND PIPING ARE GENERALLY SHOWN HEAVY.
- THE DESIGN/BUILD CONTRACTORS SHALL COORDINATE EXISTING EQUIPMENT REMOVALS TO ENSURE THAT ALL EQUIPMENT IS ELECTRICALLY DISCONNECTED PRIOR TO DEMOLITION.

**TYPICAL VALVE IDENTIFICATION**



**TYPICAL PIPING IDENTIFICATION**



**LEGEND**

- POINT OF CONNECTION
- POINT OF DISCONNECTION
- EXISTING PIPING, EQUIPMENT & FEATURES
- EXISTING PIPING, EQUIPMENT & FEATURES TO BE REMOVED
- NEW PIPING, EQUIPMENT & FEATURES

**MECHANICAL ABBREVIATIONS**

**PIPING SERVICE IDENTIFICATION**

CA	COMPRESSED AIR
D/W	DRAIN/WASTE
DCW	DOMESTIC COLD WATER
EFF	PLANT EFFLUENT
HPA	HIGH PRESSURE AIR
HW	HOT WATER, POTABLE
INF	PLANT INFLUENT
LPA	LOW PRESSURE AIR
NPW	NON-POTABLE WATER
PW	PLANT WATER
RW	RAW WATER
SAN	SANITARY SEWER
SAW	SAMPLE WATER
ST	STORM SEWER
TW	TEMPERED WATER
V	VENT
WW	WASTE WATER

**VALVES**

AVV	AIR/VACUUM VALVE
ARV	AIR RELEASE VALVE
BV	BALL VALVE
BFV	BUTTERFLY VALVE
CV	CHECK VALVE
GV	GATE VALVE
NV	NEEDLE VALVE
PDCV	PUMP DISCHARGE CONTROL VALVE
PV	PINCH VALVE
PRV	PRESSURE REGULATING VALVE
PRLV	PRESSURE RELIEF VALVE
PLV	PLUG VALVE
RPZ	REDUCED PRESSURE ZONE/BACKFLOW PREVENTOR
WSAV	WELL SERVICE AIR VALVE

**MISCELLANEOUS**

B/	BOTTOM OF
BI	BLACK IRON
BOP	BOTTOM OF PIPE
CI	CAST IRON
CONC.	CONCRETE OR CONCENTRIC
CORP.	CORPORATION STOP
CL	CENTERLINE
CS	CARBON STEEL
CU	COPPER
DI	DUCTILE IRON
DWGS.	DRAWINGS
ECC.	ECCENTRIC
EL.	ELEVATION
ELEC.	ELECTRIC OR ELECTRICAL
EXIST.	EXISTING
FLG.	FLANGED
FRP	FIBERGLASS REINFORCED PLASTIC
FOT	FLAT ON TOP
GALV.	GALVANIZED
HP	HIGH POINT
ID	INTERNAL DIAMETER
INV.	INVERT
LP	LOW POINT
MH	STORM MANHOLE
MJ	MECHANICAL JOINT
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
O.C.	ON CENTER
O/F	OVERFLOW
PE	PLAIN END
PO	PUSH ON
RED.	REDUCING OR REDUCER
RJ	RESTRAINED JOINT
SG	SLUICE GATE OR SLIDE GATE
SS	STAINLESS STEEL (PIPING)
ST. STL.	STAINLESS STEEL (OTHER THAN PIPING)
SMH	SANITARY MANHOLE
TYP.	TYPICAL
T/	TOP OF
T-O-L	THREAD-O-LET
TURB.	TURBIDITY
W/	WITH
W-O-L	WELD-O-LET



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

FINAL DESIGN CRITERIA PACKAGE	
DATE:	OCTOBER 2019
PROJECT NO.:	PW-S3B116-03CR
FILE NAME:	CC-M001
DESIGNED BY:	A. STEINHAEUER
DRAWN BY:	T. LARAMAY
CHECKED BY:	A. STEINHAUER

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

**OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT**

SHEET TITLE

CEDAR CREEK  
WATER POLLUTION  
CONTROL PLANT

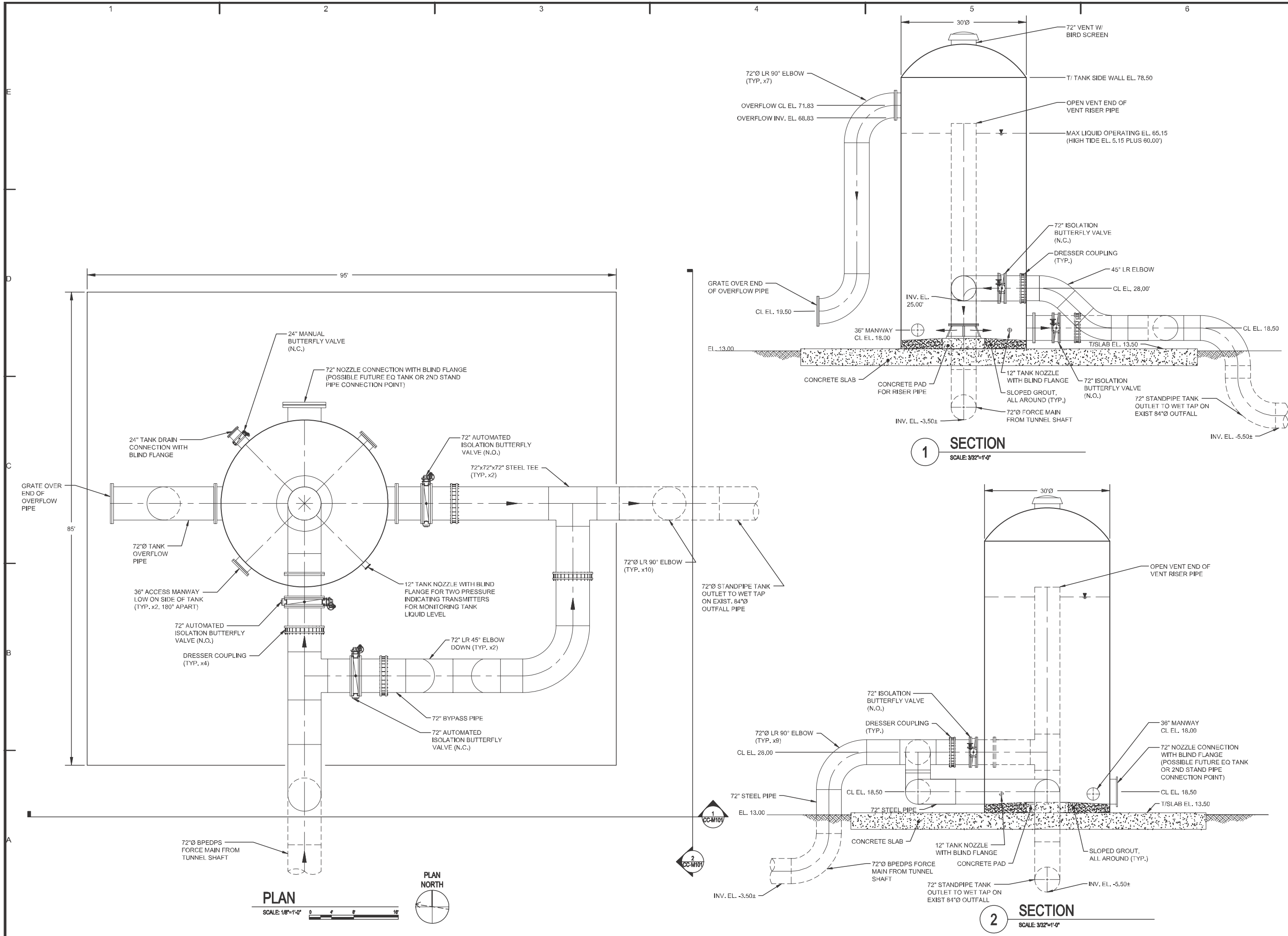
**GENERAL NOTES, SYMBOLS  
& ABBREVIATIONS**

SCALE: **AS SHOWN**

**CC-M001**

PAGE 65

User: LARAMAY, Spec: AUS-NC-SM02, File: CC-BWS/WSP-FB-LUS-FW-02-03-CG, Scale: 1:1, Sheet: 01 of 01, Title: 10/19/19, Plot Date: 10/19/19, 15:16:15, Layout: CC-M001



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
FINAL DESIGN CRITERIA PACKAGE			
DATE:	OCTOBER 2019		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	CC-M101		
DESIGNED BY:	A. STEINHAUER		
DRAWN BY:	J. OWENS		
CHECKED BY:	A. STEINHAUER		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

CEDAR CREEK  
WATER POLLUTION  
CONTROL PLANT  
STAND PIPE AND  
RECEIVING TANK  
PLAN AND SECTIONS

SCALE: AS SHOWN

**CC-M101**

PAGE 66

User: LARAMATW, Spec: AUS-NC53M02, File: C:\BUSINESS\SP-FB\USP\W02\086\_TOMLARAMATW\105898187\CC-M101.dwg, Scale: 1:1, Sheet Date: 10/20/19, Time: 15:02, Plot Date: Tom Laramatw, 10/20/19, 15:15, Layout: CC-M101





**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE: OCTOBER 2019  
 PROJECT NO.: PW-S3B116-03CR  
 FILE NAME: CC-M102  
 DESIGNED BY: A. STEINHAUER  
 DRAWN BY: T. LARAMAY  
 CHECKED BY: F. PULIDO

NASSAU COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC  
 WORKS

OCEAN OUTFALL  
 EFFLUENT DIVERSION  
 PROJECT

SHEET TITLE

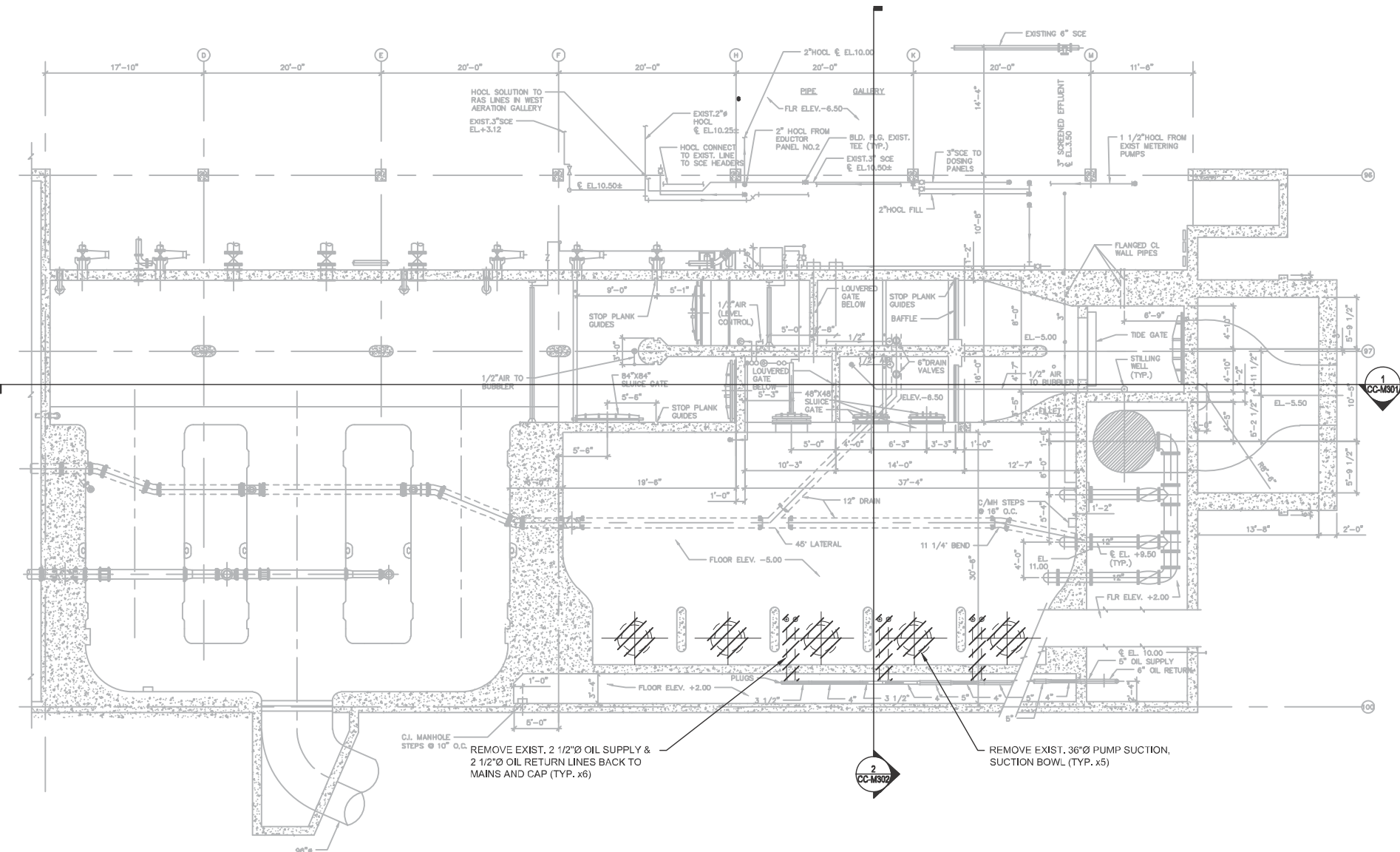
CEDAR CREEK  
 EFFLUENT PUMP STATION

EFFLUENT SCREENING &  
 DISINFECTION FACILITY  
 DEMOLITION PLAN  
 AT EL. -5.00

SCALE: AS SHOWN

CC-M102

PAGE 67



**DEMOLITION PLAN AT EL. -5.00'**  
 SCALE: 1/8"=1'-0"



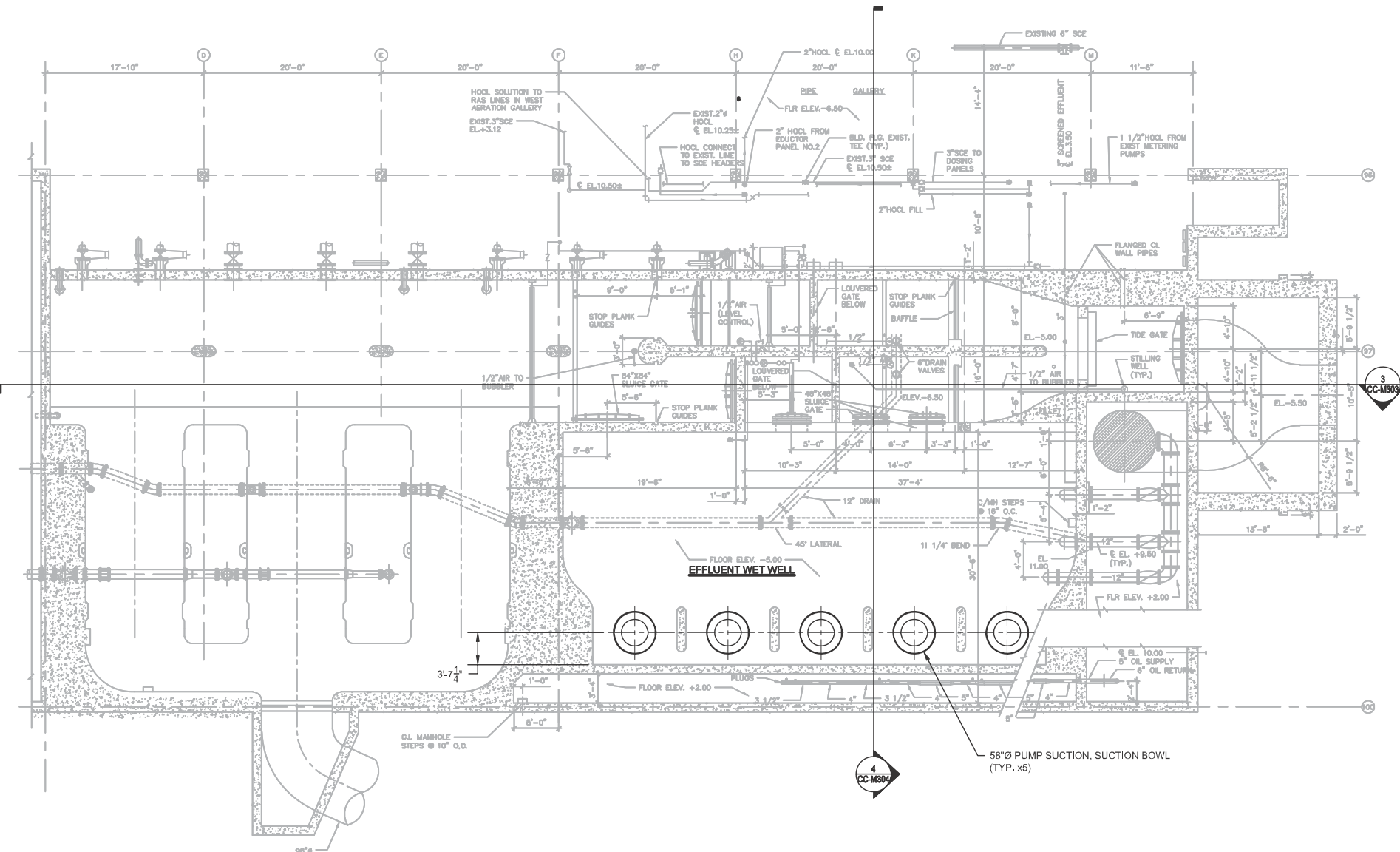
**LEGEND**

EXISTING TO BE REMOVED

User: LARAMAY, Spec: AUS\CSM02, File: C:\BMS\SWP\PLU\SFW\22\096\_TOM\LARAMAY\DM989187\CC-M102.DWG, Scale: 1:1, Sheet Date: 12/19/2019 10:15:03 AM, Plot Date: 12/19/2019 10:15:03 AM, Layer: CC-M102



User: LARAMAY, Spec: AUS\CSMOD, File: C:\BMS\SWP\PLANS\SWP42\096\_TOMLARAMAY\DWG\_17\CC-M104.DWG, Scale: 1/16"=1'-0", Date: 12/29/2019, Time: 15:16, Layout: CC-M104



**PLAN AT EL. -5.00'**  
 SCALE: 1/8"=1'-0"



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
 DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL 'RELEASED FOR CONSTRUCTION' SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE: OCTOBER 2019  
 PROJECT NO.: PW-S3B116-03CR  
 FILE NAME: CC-M104  
 DESIGNED BY: A. STEINHAUER  
 DRAWN BY: T. LARAMAY  
 CHECKED BY: F. PULIDO

NASSAU COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC  
 WORKS

OCEAN OUTFALL  
 EFFLUENT DIVERSION  
 PROJECT

SHEET TITLE

CEDAR CREEK  
 EFFLUENT PUMP STATION

EFFLUENT SCREENING &  
 DISINFECTION FACILITY  
 PLAN AT EL. -5.00

SCALE: AS SHOWN

**CC-M104**  
 PAGE 69



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

NO. DATE ISSUED FOR BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE: OCTOBER 2019  
 PROJECT NO.: PW-S3B116-03CR  
 FILE NAME: CC-M105  
 DESIGNED BY: A. STEINHAUER  
 DRAWN BY: T. LARAMAY  
 CHECKED BY: F. PULIDO

NASSAU COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC  
 WORKS

OCEAN OUTFALL  
 EFFLUENT DIVERSION  
 PROJECT

SHEET TITLE

CEDAR CREEK  
 EFFLUENT PUMP STATION

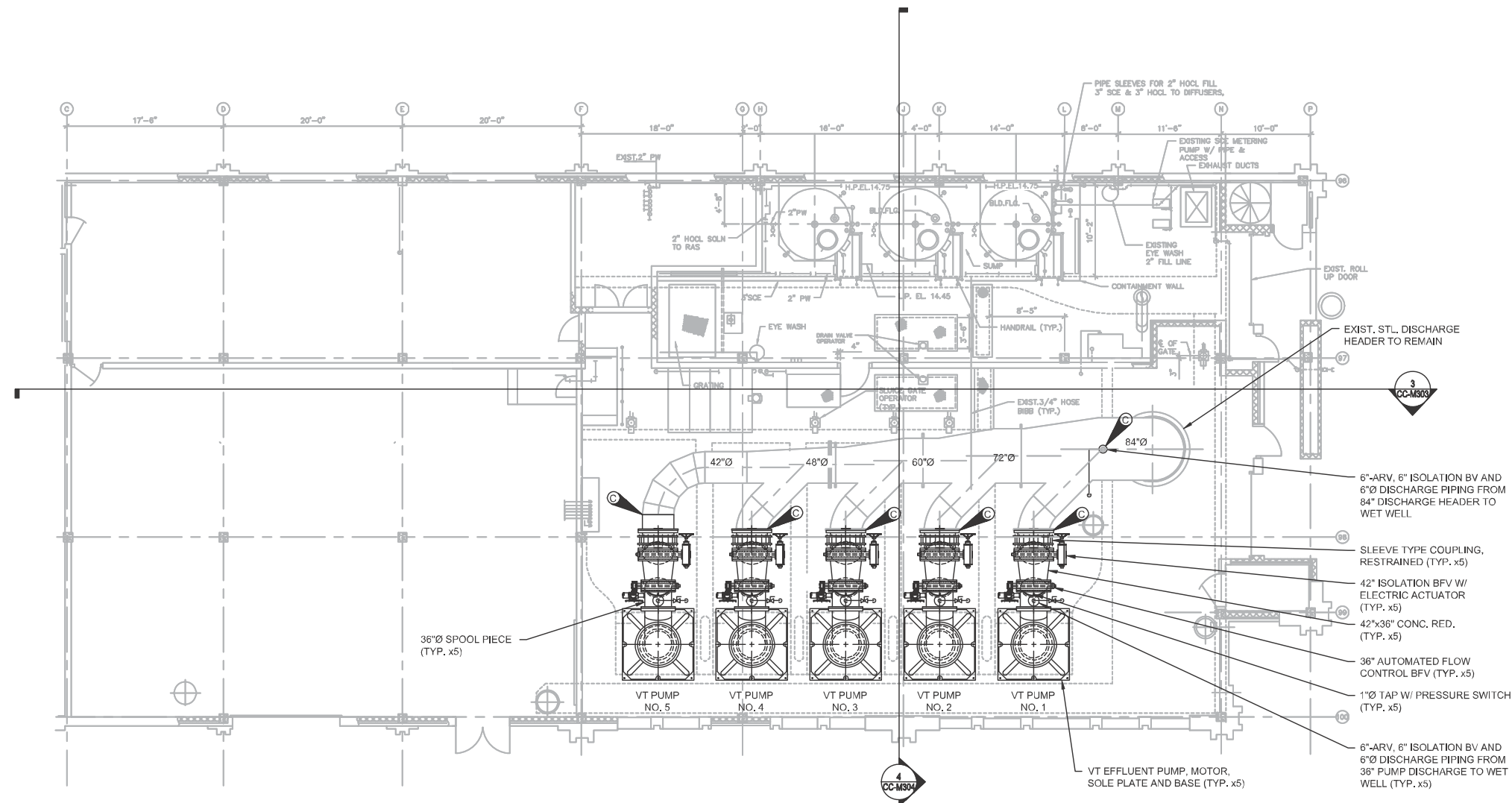
EFFLUENT SCREENING &  
 DISINFECTION FACILITY  
 PLAN AT EL. 13.50

SCALE:

AS SHOWN

CC-M105

PAGE 70



PLAN AT EL. 13.50'

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



PLAN  
NORTH

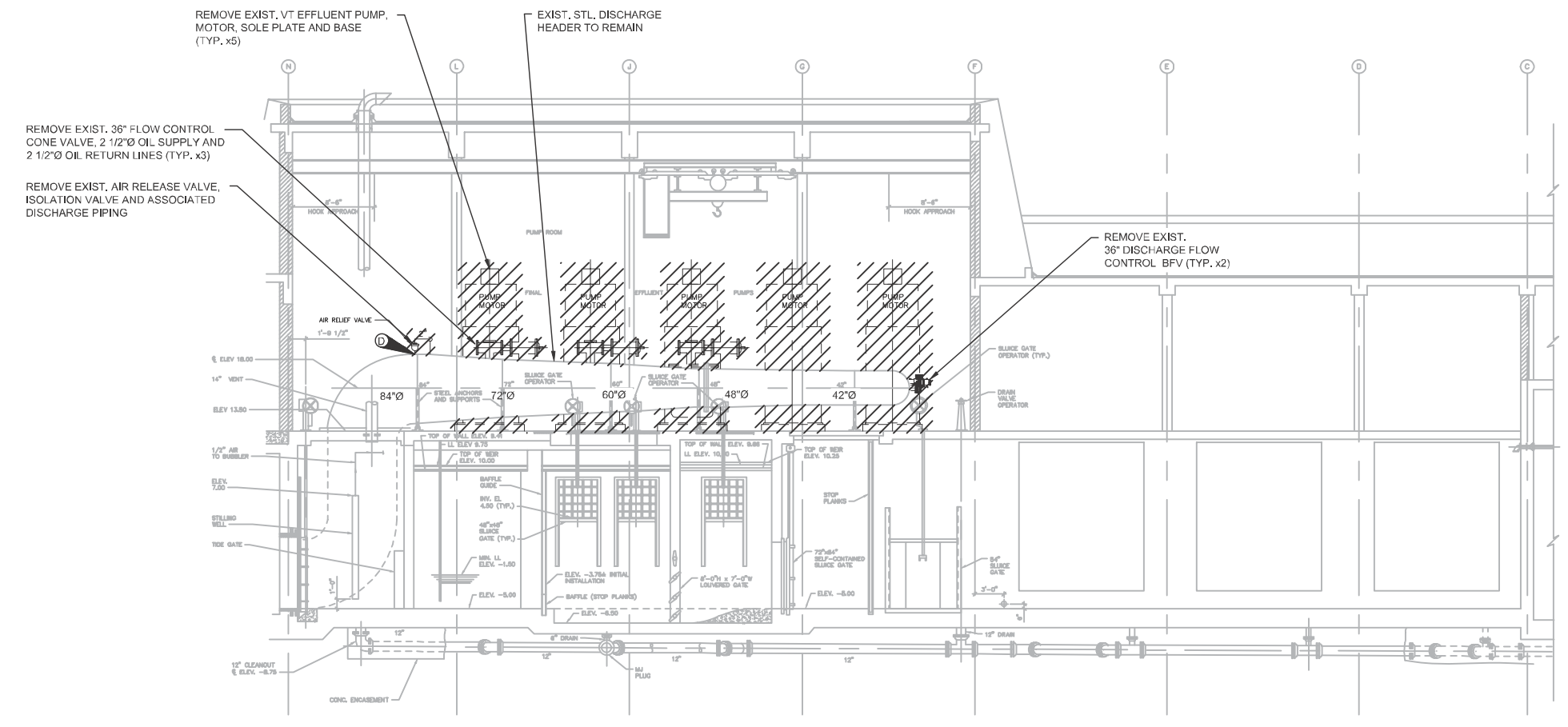


**LEGEND**

**C** POINT OF CONNECTION

\\user\LARAMAY\T\Spec\AUS\NCSMOD\F10\CC\BMS\WSP\FB-US-FW-02\096\_TOM\LARAMAY\DM988187\CC-M105.DWG Scale: 1/8"=1'-0" Date: 12/19/2019 Time: 15:16 Plo: Laramay, Tom Date: 12/19/2019 Time: 15:16 Layout: CC-M105





**1 SECTION**  
SCALE: 1/8"=1'-0"  
0 4 8 16

**LEGEND**

- POINT OF DISCONNECTION
- EXISTING TO BE REMOVED



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE: OCTOBER 2019  
PROJECT NO.: PW-S3B116-03CR  
FILE NAME: CC-M301  
DESIGNED BY: A. STEINHAUER  
DRAWN BY: T. LARAMAY  
CHECKED BY: F. PULIDO

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

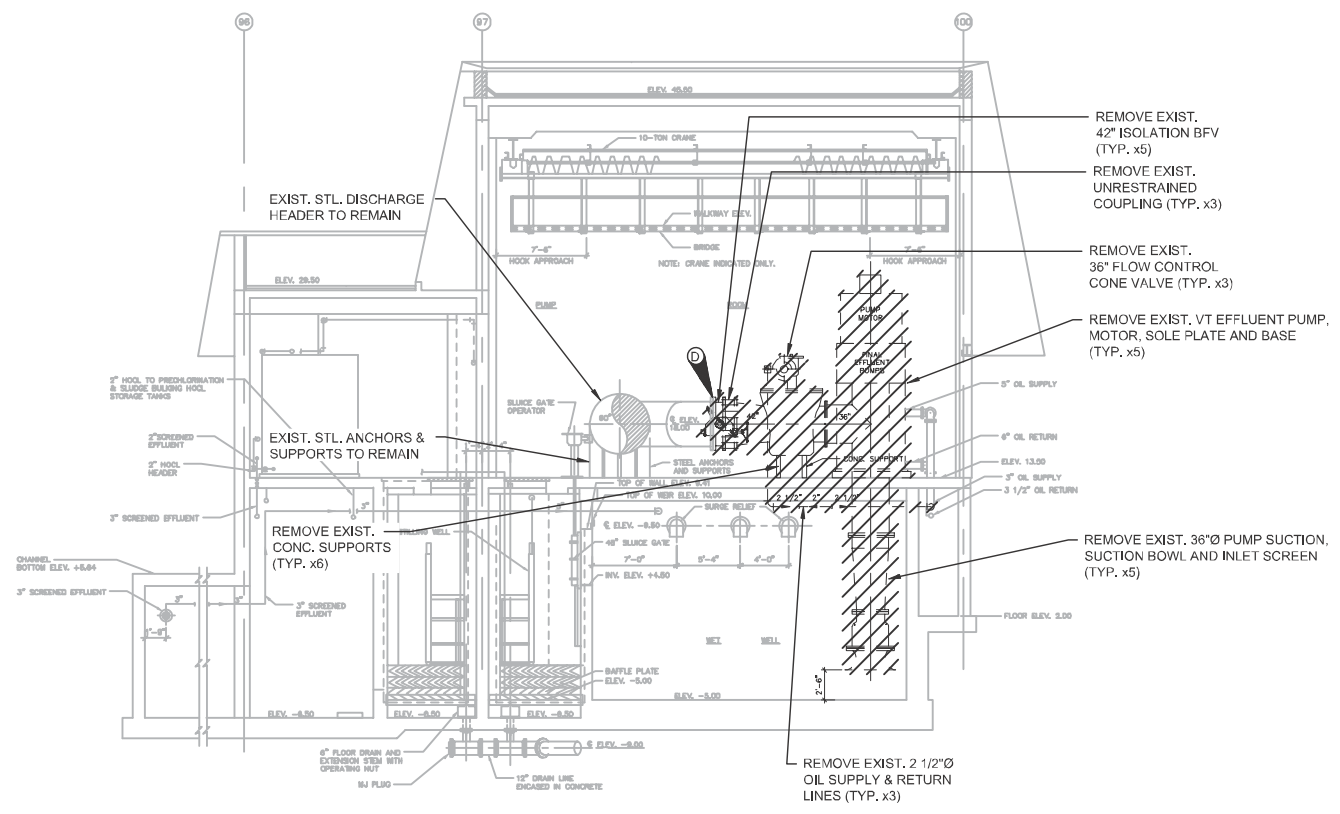
CEDAR CREEK  
EFFLUENT PUMP STATION

EFFLUENT SCREENING &  
DISINFECTION FACILITY  
DEMOLITION SECTION 1

SCALE: AS SHOWN

**CC-M301**  
PAGE 71

User: LARAMAY, Spec: AUS-NCMSMOD, File: C:\BMS\WSP\FB-US-FW-02\036\_TOMLARAMAY\DM988187\CC-M302.DWG, Scale: 1:1, Sheet Date: 10/22/2019, Time: 10:44, Plot Date: Tom Laramay, 10/22/2019, 15:16, Layout: CC-M302



**2 SECTION**  
SCALE: 1/8"=1'-0"

**LEGEND**

-  POINT OF DISCONNECTION
-  EXISTING TO BE REMOVED



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE: OCTOBER 2019

PROJECT NO.: PW-S3B116-03CR

FILE NAME: CC-M302

DESIGNED BY: A. STEINHAUER

DRAWN BY: T. LARAMAY

CHECKED BY: F. PULIDO

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

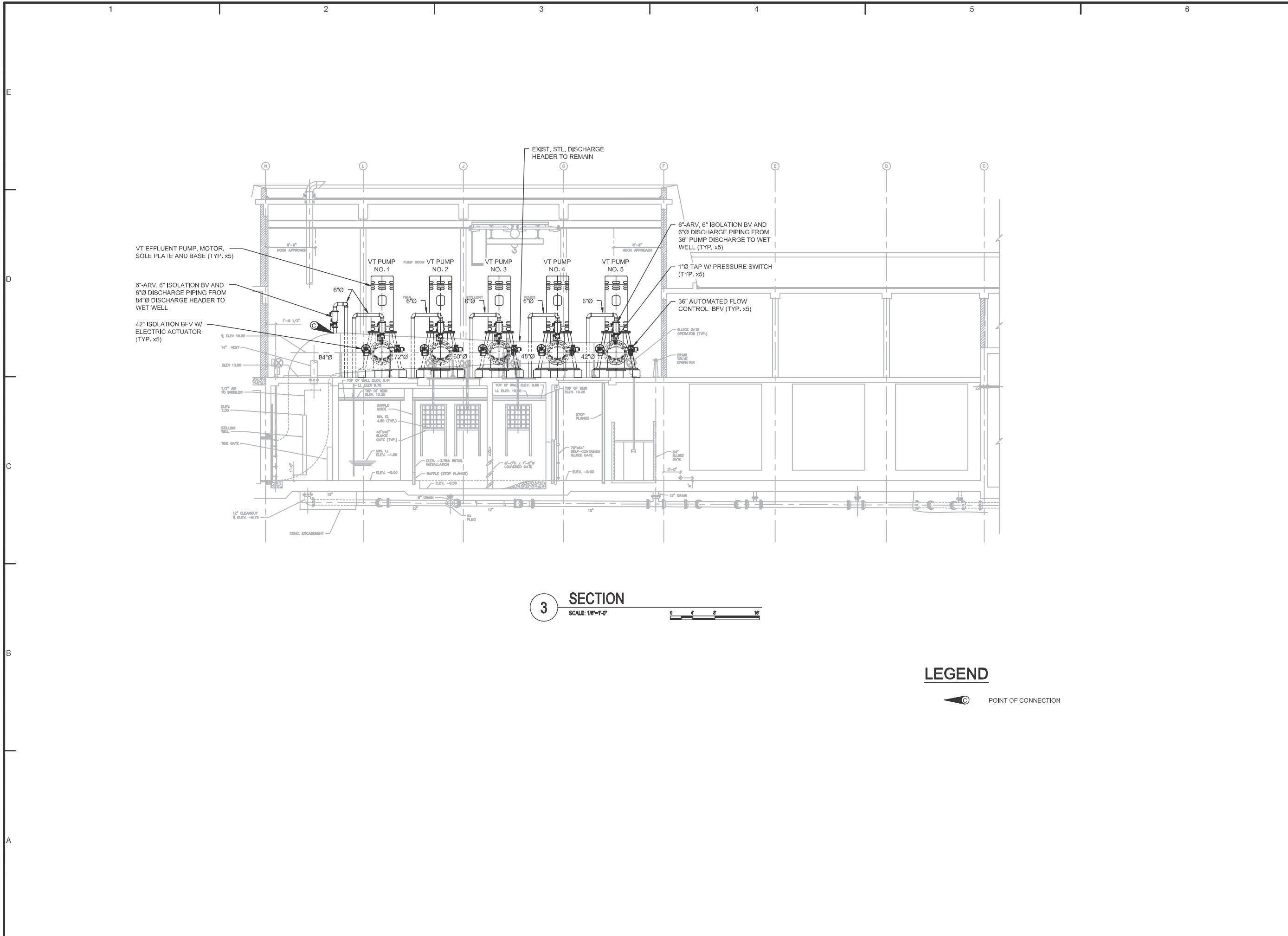
CEDAR CREEK  
EFFLUENT PUMP STATION

EFFLUENT SCREENING &  
DISINFECTION FACILITY  
DEMOLITION SECTION 2

SCALE: AS SHOWN

**CC-M302**

PAGE 72



**3 SECTION**  
SCALE: 1/8"=1'-0"

**LEGEND**  
 POINT OF CONNECTION



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**  
 DATE: OCTOBER 2019  
 PROJECT NO.: PW-S3B116-03CR  
 FILE NAME: CC-M303  
 DESIGNED BY: A. STEINHAUER  
 DRAWN BY: T. LARAMAY  
 CHECKED BY: F. PULIDO

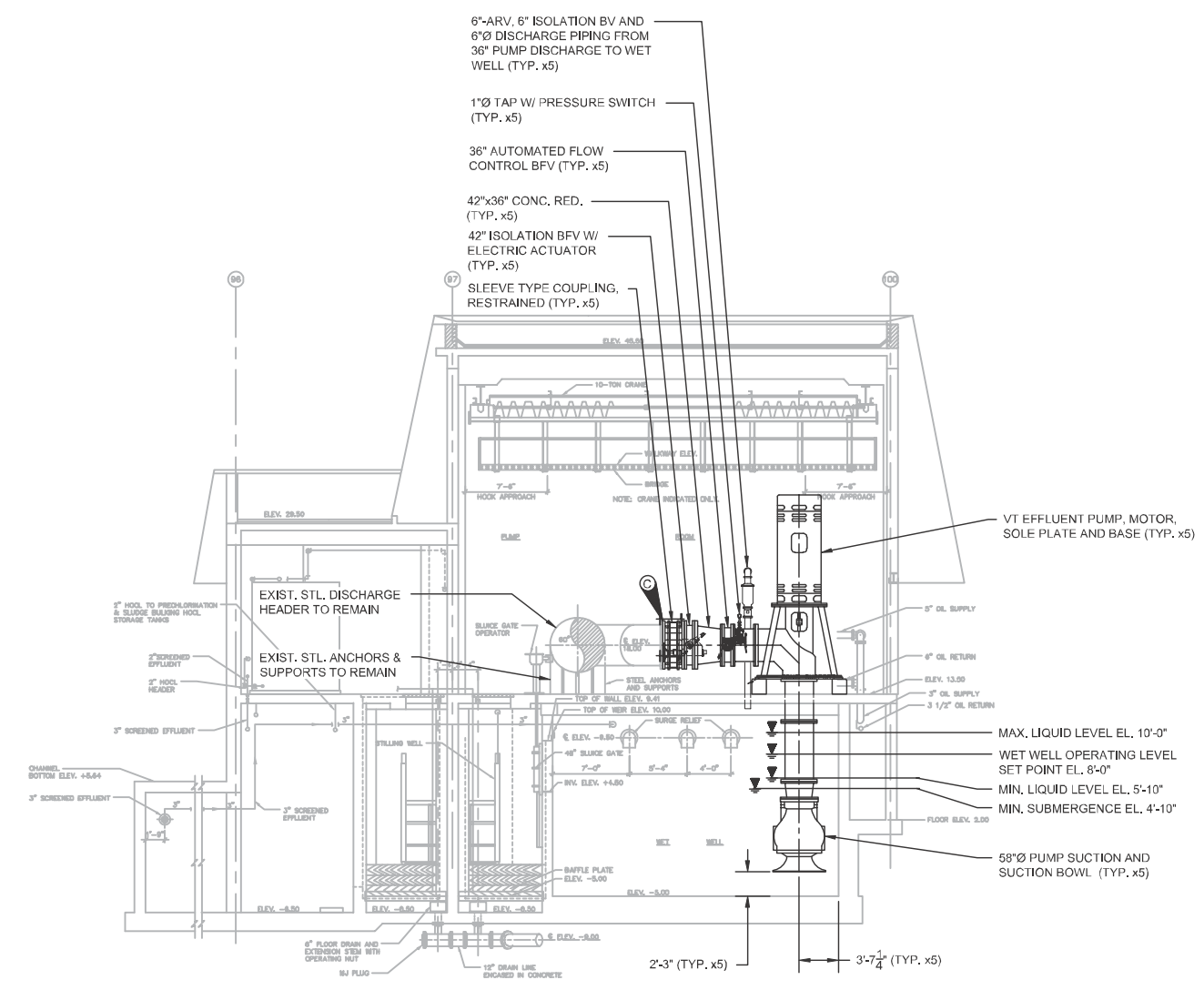
NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS  
  
OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE  
CEDAR CREEK  
EFFLUENT PUMP STATION  
  
EFFLUENT SCREENING &  
DISINFECTION FACILITY  
SECTION 3

SCALE: AS SHOWN  
  
**CC-M303**  
PAGE 73

User: LARAMAY, Spec: AUS-NC-SMOD, File: CC-BWSWSP-FB-US-FW-02-0303.DWG, Scale: 1/8"=1'-0", Plot Date: 12/20/2019 15:16, Layout: CC-M303

User: LARAMAY, Spec: AUS-NCMSMOD, File: CC-M304-DWG, Scale: 1/8"=1'-0", Plot Date: 12/29/2019 15:16, Layout: CC-M304



**4 SECTION**  
SCALE: 1/8"=1'-0"

**LEGEND**

◀ (C) POINT OF CONNECTION



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	OCTOBER 2019		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	CC-M304		
DESIGNED BY:	A. STEINHAUER		
DRAWN BY:	T. LARAMAY		
CHECKED BY:	F. PULIDO		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

CEDAR CREEK  
EFFLUENT PUMP STATION

EFFLUENT SCREENING &  
DISINFECTION FACILITY  
SECTION 4

SCALE: AS SHOWN

**CC-M304**

PAGE 74



User: C:\Users\lauraw\OneDrive\Documents\EPF\SD-REMIT 2011\lauraw\lauraw.dwg  
 Scale: AS NOTED  
 Date: 10/22/2019 11:30:12 AM  
 Plot Date: 10/22/2019 11:30:12 AM  
 Plot Date: 10/22/2019 11:30:12 AM  
 Scale: AS NOTED  
 Date: 10/22/2019 11:30:12 AM  
 Plot Date: 10/22/2019 11:30:12 AM  
 Plot Date: 10/22/2019 11:30:12 AM



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
 DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED BY THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE: OCTOBER 2019  
 PROJECT NO.: 71681  
 APPROVED BY: J. DOMANSKI  
 DESIGNED BY: J. CROSIER  
 DRAWN BY: J. CROSIER  
 CHECKED BY: J. CROSIER

NASSAU COUNTY, NEW YORK  
**DEPARTMENT OF PUBLIC  
WORKS**

**OCEAN OUTFALL EFFLUENT  
DIVERSION PROJECT**

SHEET TITLE

CEDAR CREEK  
EFFLUENT PUMP STATION

**GENERAL NOTES, SYMBOLS  
& ABBREVIATIONS**

SCALE: AS NOTED

CC-E001

PAGE 75

ELECTRICAL SYMBOLS	
ONE-LINE DIAGRAMS	
SYMBOL	DESCRIPTION
	METERING DEVICES: A-AMMETER, V-VOLTMETER, PF-POWER FACTOR, HZ-FREQUENCY METER
	FUSE, SIZE AS INDICATED
	GROUND CONNECTION
	CURRENT TRANSFORMER
	ZERO SEQUENCE CURRENT TRANSFORMER
	TRANSFORMER
	POTENTIAL TRANSFORMER
	MOTOR STARTER CONTACTOR AND OVERLOAD RELAY, FVNR UON
	DISCONNECT SWITCH
	CIRCUIT BREAKER WITH RATINGS AS INDICATED
	CIRCUIT BREAKER - DRAW OUT
	LINE REACTOR
	ATS - AUTOMATIC TRANSFER SWITCH
	SURGE PROTECTIVE DEVICE
	MOTOR
	CONDUCTORS NOT CONNECTED
	CONDUCTORS CONNECTED
	ELECTRONIC KEY INTERLOCK
	MEDIUM VOLTAGE TRIP UNIT
	LOW VOTAGE TRIP UNIT
	METER MONITOR DEVICE
	REVERSE POWER RELAY
	INSTANTANEOUS OVERCURRENT PROTECTION
	GROUND INSTANTANEOUS OVERCURRENT PROTECTION
	INVERSE TIME OVERCURRENT PROTECTION
	GROUND INVERSE TIME OVERCURRENT PROTECTION
	NEUTRAL INVERSE TIME OVERCURRENT PROTECTION
	LOCKOUT RELAY
	DIFFERENTIAL PROTECTION RELAY
	AMMETER
	DRAWOUT MEDIUM VOLTAGE CIRCUIT BREAKER
	LIGHTING ARRESTOR
	OPEN DELTA WINDING
	DELTA WINDING
	GROUNDING WYE WINDING
	GROUNDING OPEN DELTA WINDING

ELECTRICAL SYMBOLS	
ELEMENTARY DIAGRAMS	
SYMBOL	DESCRIPTION
	N.O. MOMENTARY CONTACT PUSH BUTTON WITH NAMEPLATE AS INDICATED ON DIAGRAM
	N.C. MOMENTARY CONTACT PUSH BUTTON WITH NAMEPLATE AS INDICATED ON DIAGRAM
	N.C. MAINTAINED CONTACT PUSH BUTTON WITH MUSHROOM BUTTON
	TWO POSITION MAINTAINED CONTACT SELECTOR SWITCH WITH NAMEPLATE AS INDICATED ON DIAGRAMS
	THREE POSITION MAINTAINED CONTACT SELECTOR SWITCH WITH NAMEPLATE AS INDICATED ON THE CONTROL DIAGRAMS. X=CLOSED O=OPEN
	N.C. PRESSURE SWITCH - OPENS ON RISING PRESSURE
	N.O. PRESSURE SWITCH - CLOSSES ON RISING PRESSURE
	N.C. TEMPERATURE SWITCH - OPENS ON RISING TEMPERATURE
	N.O. TEMPERATURE SWITCH - CLOSSES ON RISING TEMPERATURE
	N.C. FLOW SWITCH - OPENS ON RISING FLOW
	N.O. FLOW SWITCH - CLOSSES ON RISING FLOW
	N.C. TORQUE SWITCH - OPENS ON INCREASING TORQUE
	N.O. TORQUE SWITCH - CLOSSES ON INCREASING TORQUE
	N.C. LIMIT SWITCH (HELD OPEN)
	N.O. LIMIT SWITCH
	N.O. LIMIT SWITCH (HELD CLOSED)
	SOLENOID VALVE OR RELAY COIL
	RELAY OR CONTACTOR COIL WITH TAG NUMBER AS SHOWN
	N.O. RELAY CONTACT
	N.C. RELAY CONTACT
	ON-DELAY OR OFF-DELAY RELAY
	ON-DELAY RELAY N.C. TIMED OPENING CONTACT
	ON-DELAY RELAY N.O. TIMED CLOSING CONTACT
	OFF-DELAY N.C. CONTACT (OPENS WHEN ENERGIZED, TIMED CLOSING AFTER DE-ENERGIZING)
	OFF-DELAY N.O. CONTACT (CLOSSES WHEN ENERGIZED, TIMED OPENING AFTER DE-ENERGIZING)
	INDICATOR OR PILOT LIGHT: R-RED, B-BLUE, W-WHITE, G-GREEN, A-AMBER O-ORANGE, C-CLEAR, NE-NEON, OP-OPALESCEMENT, P-PURPLE
	LATCHING RELAY L = LATCH COIL U = UNLATCH COIL
	FIELD WIRING
	ELAPSED TIME METER
	CONTROL POWER TRANSFORMER (WITHIN MOTOR STARTER)
	SOLENOID VALVE
	PUSH BUTTON STATION MOMENTARY CONTACT START-STOP
	PUSH BUTTON STATION MAINTAINED CONTACT START-STOP
	PUSH BUTTON STATION EMERGENCY STOP MAINTAINED CONTACT START-STOP
	THERMOSTAT

ELECTRICAL SYMBOLS	
POWER	
SYMBOL	DESCRIPTION
	PANELBOARD
	TRANSFORMER
	DISCONNECT SWITCH, NON-FUSED
	DISCONNECT SWITCH - FUSED
	COMBINATION MOTOR STARTER
	LOCAL-OFF-REMOTE CONTROL STATION (LOR)
	JUNCTION BOX
	PULL BOX
	ENCLOSED CIRCUIT BREAKER
	EMERGENCY POWER OFF SWITCH
	ELECTRICAL PULLBOX
	UTILITY POLE
	SIMPLEX RECEPTACLE
	DUPLEX RECEPTACLE (15 AMP UNLESS OTHERWISE NOTED)
	NEMA 4X RECEPTACLE
	GROUND FAULT INTERRUPTER TYPE RECEPTACLE
	GROUND FAULT INTERRUPTER TYPE RECEPTACLE WITHIN WEATHER-PROOF WHILE IN USE BOX
	SPECIAL PURPOSE RECEPTACLE - 480V
	SPECIAL PURPOSE RECEPTACLE - 208V
	BRANCH CIRCUIT HOME RUN, SWBD = SWITCHBOARD HOME RUN, PP = PANELBOARD "PP" HOME RUN, LP = PANELBOARD "LP" HOME RUN
	INSTRUMENT

LIGHTING	
SYMBOL	DESCRIPTION
	LIGHTING FIXTURE (TYPE AS SHOWN)
	LIGHTING FIXTURE (EMERGENCY OR NIGHT LIGHT)
	HID WALL PACK
	EXIT SIGN - CEILING OR PENDANT MOUNTED (SHADED PORTION INDICATES FACE)
	EXIT SIGN - WALL MOUNTED
	POLE MOUNTED LIGHTING FIXTURE SINGLE, DOUBLE HEAD
	CEILING MOUNTED LIGHTING FIXTURE (TYPE AS SHOWN)
	WALL MOUNTED LIGHTING FIXTURE (TYPE AS SHOWN)
	EMERGENCY BATTERY UNIT WITH REMOTE HEADS
	OCCUPANCY SENSOR
	PHOTOCELL
	SINGLE POLE LINE VOLTAGE SWITCH

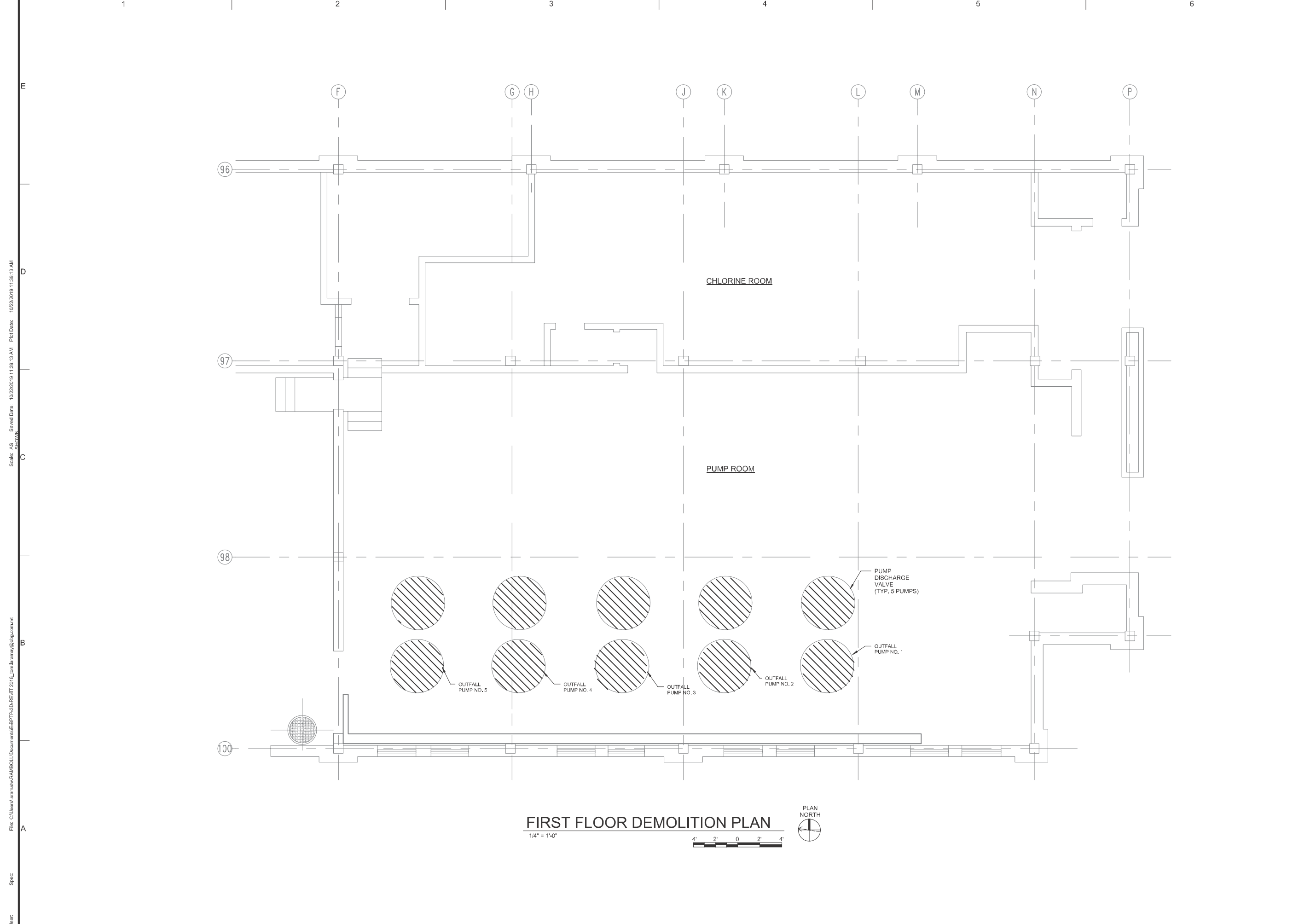
GROUNDING	
SYMBOL	DESCRIPTION
	3/4" X 10' COPPER CLAD GROUND ROD
	GROUND GRID TEST WELL
	EXOTHERMIC WELD CONNECTION (BELOW GROUND)
	BOLTED GROUND CONNECTION (ABOVE GROUND)
	TRANSIENT VOLTAGE SURGE SUPPRESSOR
	LIGHTNING PROTECTION AIR TERMINAL

ELECTRICAL SYMBOLS	
GENERAL	
SYMBOL	DESCRIPTION
	DRAWING NOTE NUMBER 2
	POWER CIRCUIT NUMBER
	POINT OF CONNECTION
	COMPARTMENT NUMBER 2
	NEC ARTICLE 500 HAZARDOUS (CLASSIFIED) AREA DEFINITION
	DEMOLITION LINE TYPE
	EXISTING
	PROPOSED ELECTRICAL WORK
	PROPOSED UNDERGROUND ELECTRICAL WORK
	FUTURE ELECTRICAL WORK
	UNDERGROUND COPPER GROUNDING CONDUCTOR (SIZE AS SHOWN ON DRAWING)
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC
	CONCRETE ENCASED DUCT BANK

ELECTRICAL ABBREVIATIONS	
A, AMP	-AMPERE
AC	-ALTERNATING CURRENT
AIC	-AMPS INTERRUPTING CAPACITY
AF	-AMP FRAME
AT	-AMP TRIP
ATS	-AUTOMATIC TRANSFER SWITCH
AWG	-AMERICAN WIRE GAUGE
C	-CONDUIT
CCTV	-CLOSED CIRCUIT TELEVISION
CEP	-CONCRETE EQUIPMENT PAD
CKT	-CIRCUIT
CMH	-COMMUNICATION MANHOLE
COND	-CONDUCTOR
CPT	-CONTROL POWER TRANSFORMER
CR	-CONTROL RELAY
CU	-COPPER
CWA	-CONSTANT WATTAGE AUTOTRANSFORMER
CRAC	-COMPUTER ROOM AIR CONDITIONER
DC	-DIRECT EXPANSION CONDENSER
DISC	-DISCONNECT
DP	-DISTRIBUTION PANEL
DPST	-DOUBLE POLE SINGLE THROW
DPDT	-DOUBLE POLE DOUBLE THROW
DS	-DISCONNECT SWITCH
DT	-DOUBLE THROW
E, EMERG	-EMERGENCY
EC	-EMPTY CONDUIT
EMT	-ELECTRICAL METALLIC TUBING
ETM	-ELAPSED TIME METER
ERV	-ENERGY RECOVERY VENTILATOR
EXIST.	-EXISTING
FA	-FIRE ALARM
FE	-FIRE ALARM ELEMENT
FAAP	-FIRE ALARM ANNUNCIATOR PANEL
FACP	-FIRE ALARM CONTROL PANEL
FDR	-FEEDER
FT	-FLOW INDICATING TRANSMITTER
FLA	-FULL LOAD AMPERES
FMC	-FLEXIBLE METAL CONDUIT
FS	-FLOW SWITCH
FJ	-FUSED OR FUSIBLE
FVR	-FULL VOLTAGE REVERSING
FVNR	-FULL VOLTAGE NON-REVERSING
G, GND	-GROUND
GFI	-GROUND FAULT INTERRUPTER
GFR	-GROUND FAULT RELAY
GRS	-GALVANIZED RIGID STEEL CONDUIT
HH	-HANDHOLE
HT	-HIGH TEMPERATURE
HV	-HIGH VOLTAGE
HZ	-HERTZ
IC	-INTERRUPTING CAPACITY
IG	-ISOLATED GROUND
I	-CURRENT/CURRENT TRANSDUCER
IO	-INPUT/OUTPUT
IT	-INSTANTANEOUS TRIP OR INTERCHANGEABLE
JB	-JUNCTION BOX
KCMIL	-THOUSAND CIRCULAR MILS
KV	-KILOVOLTS
KVA	-KILOVOLT AMPERES
KVAR	-KILOVOLT AMPERES REACTIVE
KW	-KILOWATTS
KWH	-KILOWATT HOUR

ELECTRICAL ABBREVIATIONS	
LA	-LIGHTING ARRESTOR
LE	-LEVEL ELEMENT
LFMC	-LIQUID TIGHT FLEXIBLE METAL CONDUIT
LOR	-LOCAL-OFF-REMOTE
LP	-LIGHTING PANELBOARD
LS	-LIMIT SWITCH
LIT	-LEVEL INDICATING TRANSMITTER
LVL	-LEVEL SWITCH
LTG	-LIGHTING
LPS	-LIGHTNING PROTECTION SYSTEM
LVTU	-LOW VOLTAGE TRIP UNIT
mA	-MILLIAMPS
MA	-MAIN A
MB	-MAIN B
MF	-MAIN FEEDER
MCB	-MAIN CIRCUIT BREAKER
MCP	-MOTOR CIRCUIT PROTECTOR
MH	-MANHOLE
MLO	-MAIN LUGS ONLY
MMD	-METER MONITORING DEVICE
MV	-MEDIUM VOLTAGE
MVTU	-MEDIUM VOLTAGE TRIP UNIT
NC	-NORMALLY CLOSED
NF	-NON-FUSED
NFSS	-NON-FUSED SAFETY SWITCH
NGR	-NEUTRAL GROUNDING RESISTOR
NO	-NORMALLY OPEN
ODP	-OPEN DRIP PROOF
OL	-OVERLOAD
(P)	-(P) NUMBER OF POLES
Ø, PH	-PHASE
PI	-PNEUMATIC CURRENT TRANSDUCER
PB	-PUSHBUTTON
PCP	-PUMP CONTROL PANEL
PE	-PRESSURE ELEMENT
PF	-POWER FACTOR
PL	-PILOT LIGHT
PLC	-PROGRAMMABLE LOGIC CONTROLLER
PIT	-PRESSURE INDICATING TRANSMITTER
PP	-POWER PANELBOARD
PS	-PRESSURE SWITCH
PT	-POTENTIAL TRANSFORMER
RFI	-RADIO FREQUENCY INTERFERENCE
RIA	-RUNNING LOAD AMPERES
RMS	-ROOT MEAN SQUARE
RSC	-RIGID STEEL CONDUIT
RTD	-RESISTIVE TEMPERATURE DETECTOR
RVAT	-REDUCED VOLTAGE AUTO TRANSFORMER
RECP	-RECEPTACLE
SC	-SURGE CAPACITOR
SS	-SAFETY SWITCH OR STAINLESS STEEL
SST	-SOLID STATE
ST	-SINGLE THROW
SWS	-SWITCHES
SWBD	-SWITCHBOARD
SWGR	-SWITCHGEAR
T-STAT	-THERMOSTAT
TEL, TELE	-TELEPHONE
TMH	-TELECOM MANHOLE
TR	-TIMING RELAY
TS	-TEMPERATURE SWITCH
TSP	-TWISTED SHIELDED PAIR
UTP	-UNSHIELDED TWISTED PAIR - VOLTS
V	-VOLT
VA	-VOLT - AMPERES
VFD	-VARIABLE FREQUENCY DRIVE
VS	-VIBRATION SWITCH
W	-WATTS, WIRE
XFMR	-TRANSFORMER
XP	-EXPLOSION PROOF
2S1W	-2 SPEED SINGLE WINDING
2S2W	-2 SPEED TWO WINDING

- GENERAL NOTES:**
- THIS IS A STANDARD SYMBOL LIST. SOME SYMBOLS MAY NOT APPEAR ON THE ACCOMPANYING DRAWINGS.
  - ALL ELECTRICAL EQUIPMENT AND WIRING IS NEW UNLESS OTHERWISE NOTED.
  - WHERE EXISTING EQUIPMENT AND WIRING IS SHOWN TO BE MODIFIED OR REMOVED, FIELD VERIFY EXISTING LOCATIONS, CONNECTIONS AND WIRING TO ENSURE ACTUAL FEATURES ARE AS SHOWN OR NOTED.
  - FIELD VERIFY EXISTING FEATURES AS NECESSARY TO COORDINATE EXECUTION OF THE WORK SHOWN.
  - ELECTRICAL EQUIPMENT SHALL BE MOUNTED WITH OPERATING CONTROLS BETWEEN APPROXIMATELY 4'-0" AND 6'-0" ABOVE FINISHED FLOOR UNLESS OTHERWISE SHOWN OR SPECIFIED.



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED BY THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE: OCTOBER 2019  
 PROJECT NO.: 71681  
 APPROVED BY: J. DOMANSKI  
 DESIGNED BY: J. CROSIER  
 DRAWN BY: J. CLARK  
 CHECKED BY: J. CROSIER

NASSAU COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC  
 WORKS

OCEAN OUTFALL EFFLUENT  
 DIVERSION PROJECT

SHEET TITLE

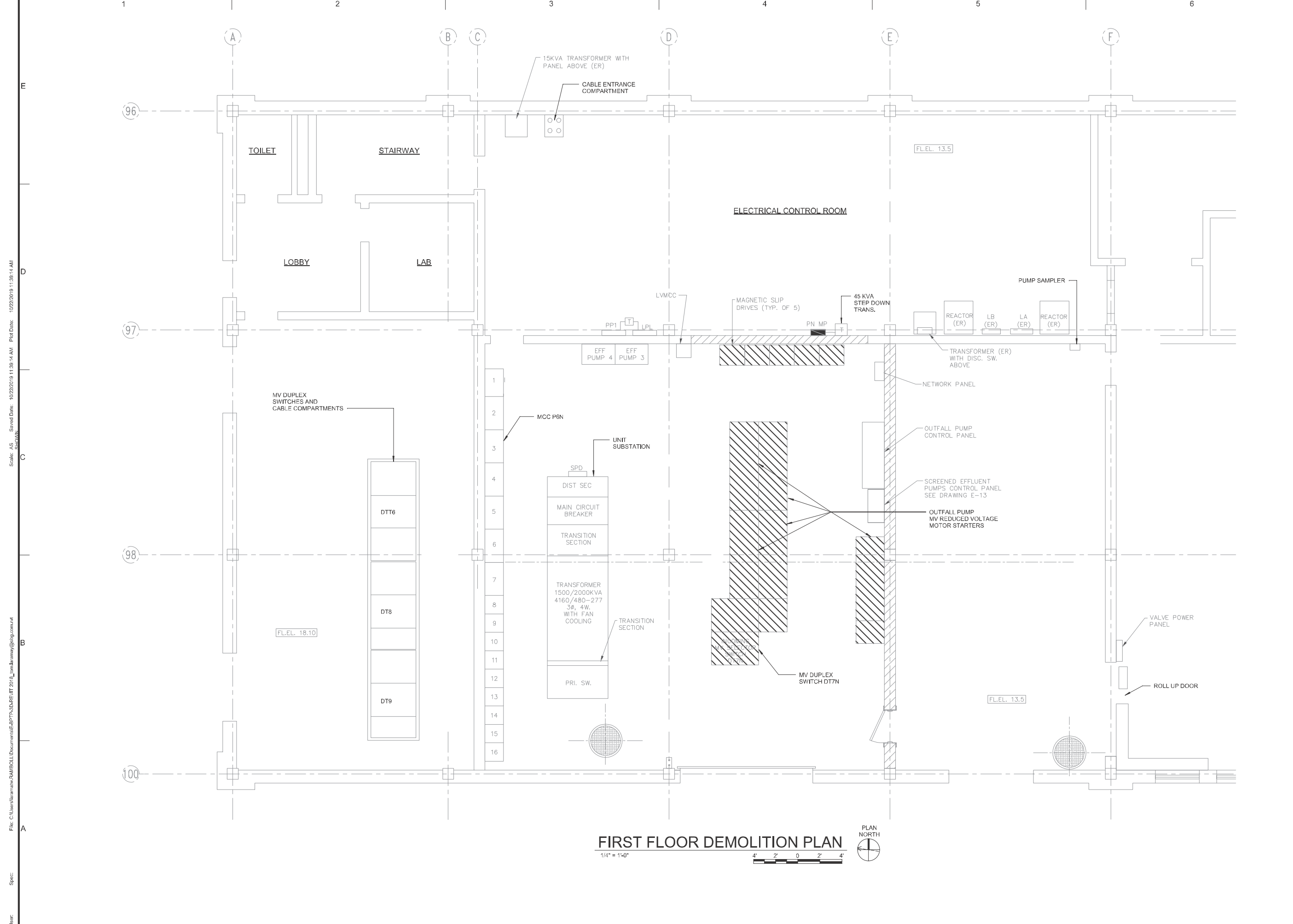
CEDAR CREEK  
 EFFLUENT PUMP STATION

FIRST FLOOR DEMOLITION  
 PLAN

SCALE:  
 AS NOTED

CC-E101  
 PAGE 76

User: Spec: File: C:\Users\lumaw\RAMBOLL\Documents\EBP\3D-REMIT 2019\en\lumaw\@bgs.com.rvt  
 Scale: AS SHOWN  
 Saved Date: 10/22/2019 11:38:13 AM  
 Plot Date: 10/22/2019 11:38:13 AM  
 User: Spec:



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED BY THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	OCTOBER 2019		
PROJECT NO.:	71681		
APPROVED BY:	J. DOMANSKI		
DESIGNED BY:	J. CROSIER		
DRAWN BY:	J. CLARK		
CHECKED BY:	J. CROSIER		

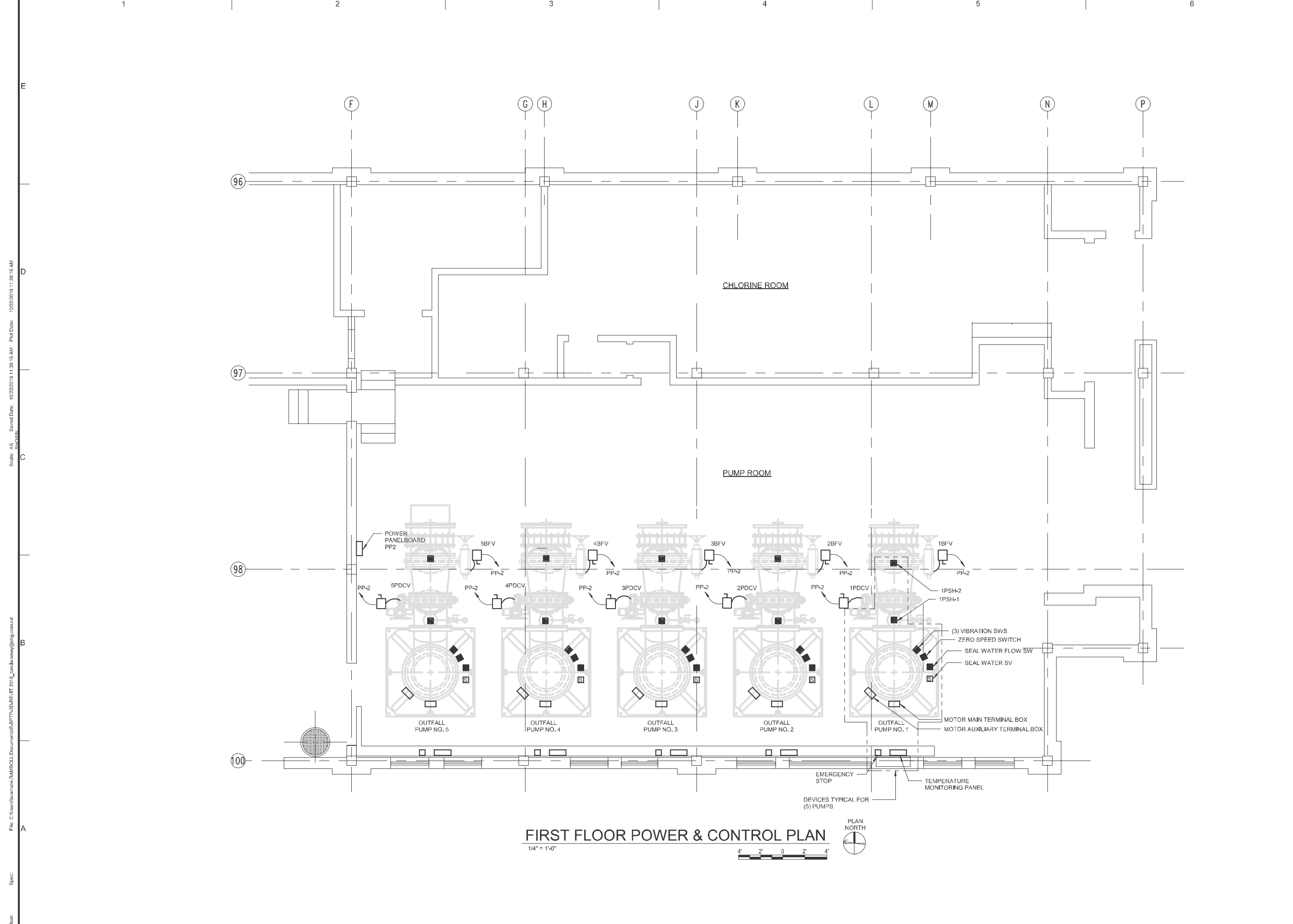
NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS  
  
OCEAN OUTFALL EFFLUENT  
DIVERSION PROJECT

SHEET TITLE  
CEDAR CREEK  
EFFLUENT PUMP STATION  
FIRST FLOOR DEMOLITION  
PLAN

SCALE:  
AS NOTED

CC-E102  
PAGE 77

User: Spec: File: C:\Users\lunamw\RAMBOLL\Documents\EBP\3D-REMIT 201\lunamuray@bgs.com.rvt  
 Scale: AS SHOWN  
 Saved Date: 10/22/2019 11:38:14 AM  
 Plot Date: 10/22/2019 11:38:14 AM  
 Plot Date: 10/22/2019 11:38:14 AM



User: Spec: File: C:\Users\lumaw\RAMBOLL\Documents\EBP\PP-3D-REVIT 2019\en\_buray@bcb.com.rvt  
 Scale: AS SHOWN  
 Saved Date: 10/22/2019 11:38:16 AM  
 Plot Date: 10/22/2019 11:38:16 AM  
 User:



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
 DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED BY THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	OCTOBER 2019		
PROJECT NO.:	71681		
APPROVED BY:	J. DOMANSKI		
DESIGNED BY:	J. CROSIER		
DRAWN BY:	J. CLARK		
CHECKED BY:	J. CROSIER		

NASSAU COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC WORKS  
  
 OCEAN OUTFALL EFFLUENT DIVERSION PROJECT

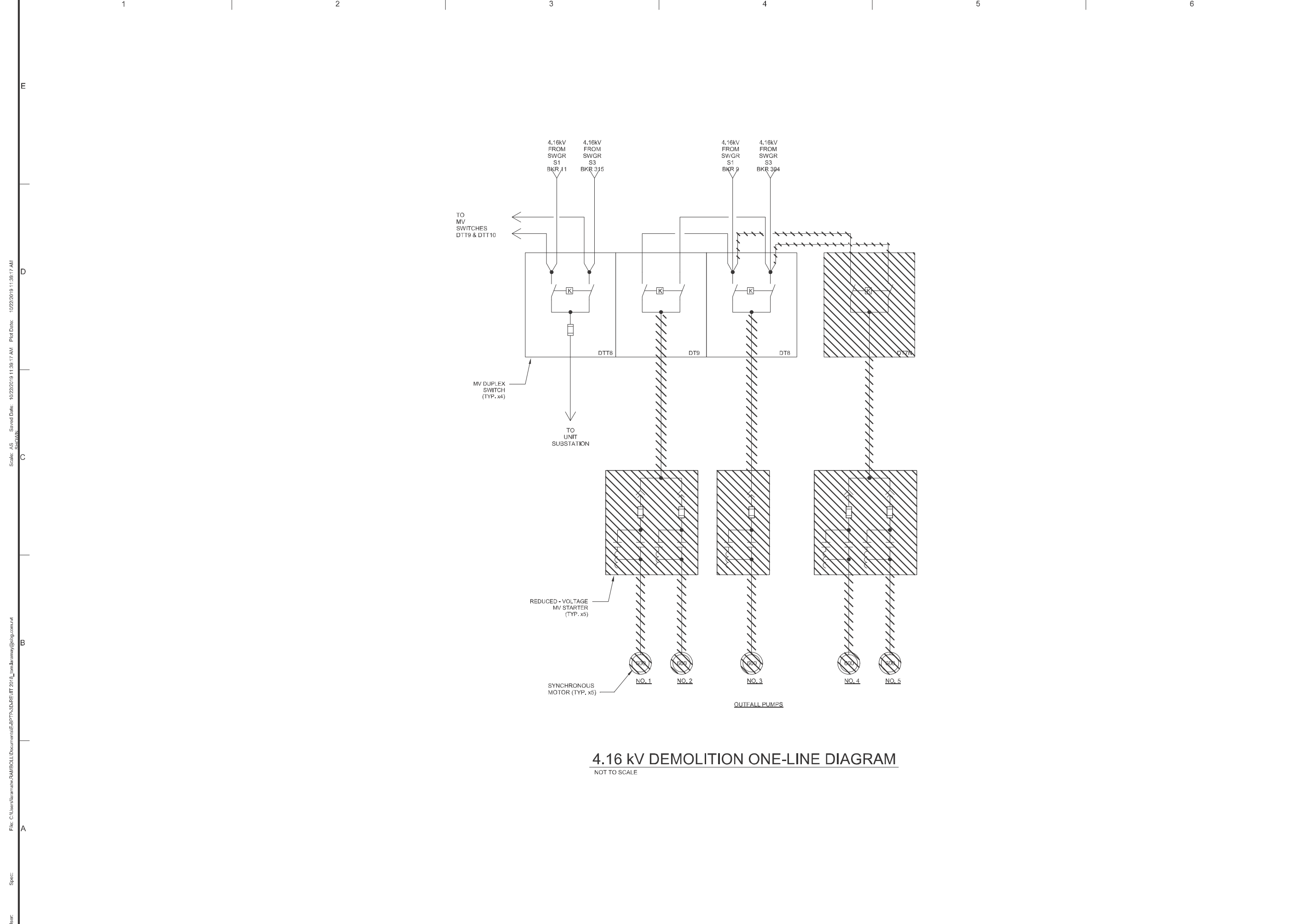
SHEET TITLE  
 CEDAR CREEK  
 EFFLUENT PUMP STATION  
 FIRST FLOOR POWER &  
 CONTROL PLAN

SCALE: AS NOTED

CC-E103  
 PAGE 78







**4.16 kV DEMOLITION ONE-LINE DIAGRAM**  
NOT TO SCALE



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED BY THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE: OCTOBER 2019  
PROJECT NO.: 71681  
APPROVED BY: J. DOMANSKI  
DESIGNED BY: J. CROSIER  
DRAWN BY: J. CLARK  
CHECKED BY: J. CROSIER

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL EFFLUENT  
DIVERSION PROJECT

SHEET TITLE

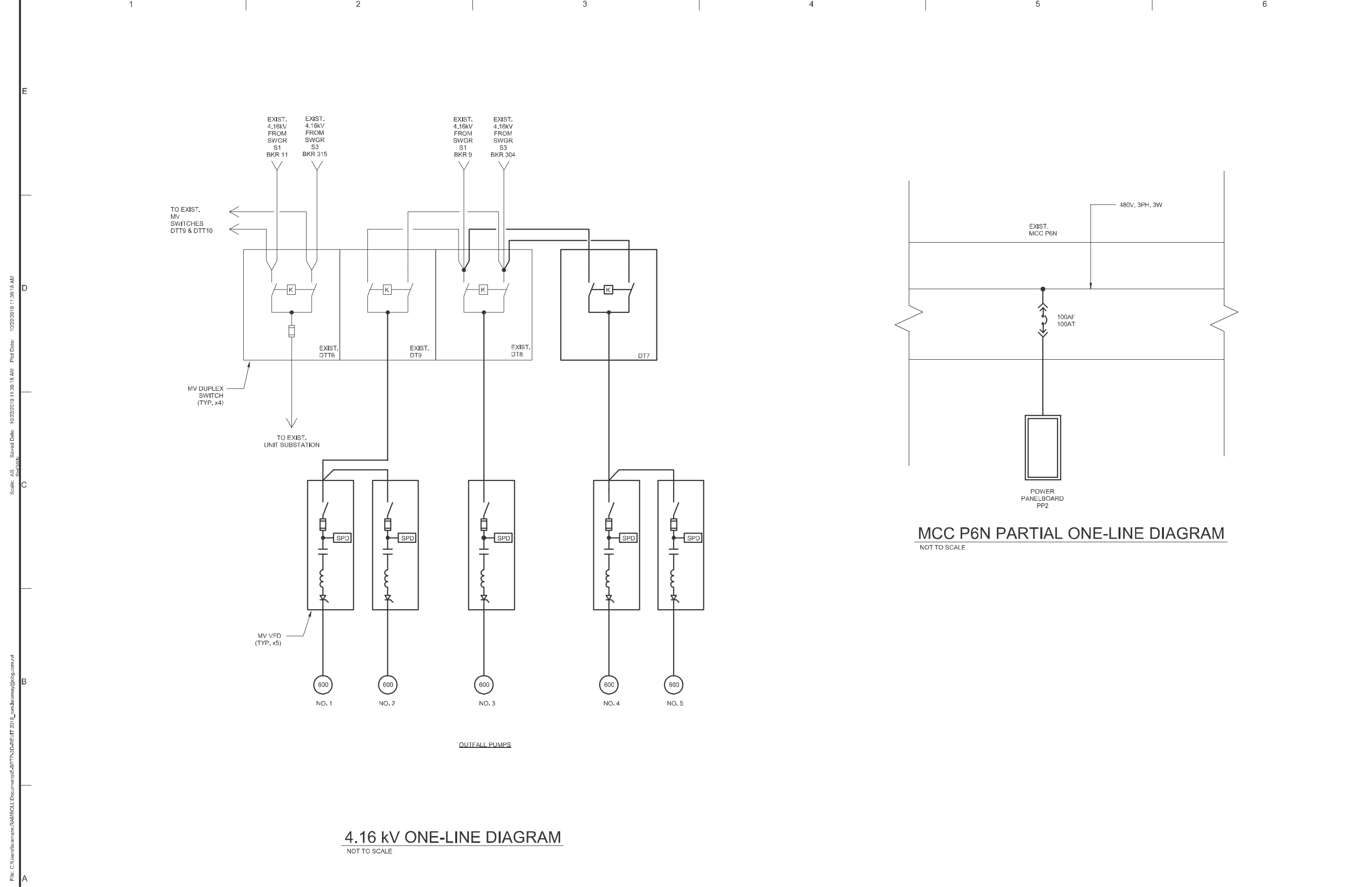
CEDAR CREEK  
EFFLUENT PUMP STATION

4.16 kV DEMOLITION  
ONE-LINE DIAGRAM

SCALE: AS NOTED

CC-E601  
PAGE 80

User: Spec: File: C:\Users\lumaw\RAMBOLL\Documents\EBP\71681\REVIT 2019\en\lumaw\@bgs.com.rvt  
 Scale: AS NOTED  
 Saved Date: 10/22/2019 11:38:17 AM  
 Plot Date: 10/22/2019 11:38:17 AM  
 E  
D  
C  
B  
A



**4.16 kV ONE-LINE DIAGRAM**  
NOT TO SCALE

**MCC P6N PARTIAL ONE-LINE DIAGRAM**  
NOT TO SCALE



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED BY THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

FINAL DESIGN CRITERIA PACKAGE

DATE: OCTOBER 2019

PROJECT NO.: 71681

APPROVED BY: J. DOMANSKI

DESIGNED BY: J. CROSIER

DRAWN BY: J. CLARK

CHECKED BY: J. CROSIER

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS  
OCEAN OUTFALL EFFLUENT  
DIVERSION PROJECT

SHEET TITLE  
CEDAR CREEK  
EFFLUENT PUMP STATION  
ONE-LINE DIAGRAMS

SCALE: AS NOTED

CC-E602  
PAGE 81

User: Spec: File: C:\Users\lunamaw\RAMBOLL\Documents\EBP\PP-3D-REMIT 2019\lunamaw\lunamaw.dwg  
 Scale: AS NOTED  
 Saved Date: 10/22/2019 11:38:18 AM  
 Plot Date: 10/22/2019 11:38:18 AM  
 User: Spec:



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED BY THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	OCTOBER 2019		
PROJECT NO.:	71681		
APPROVED BY:	J. DOMANSKI		
DESIGNED BY:	J. CROSIER		
DRAWN BY:	J. CLARK		
CHECKED BY:	J. CROSIER		

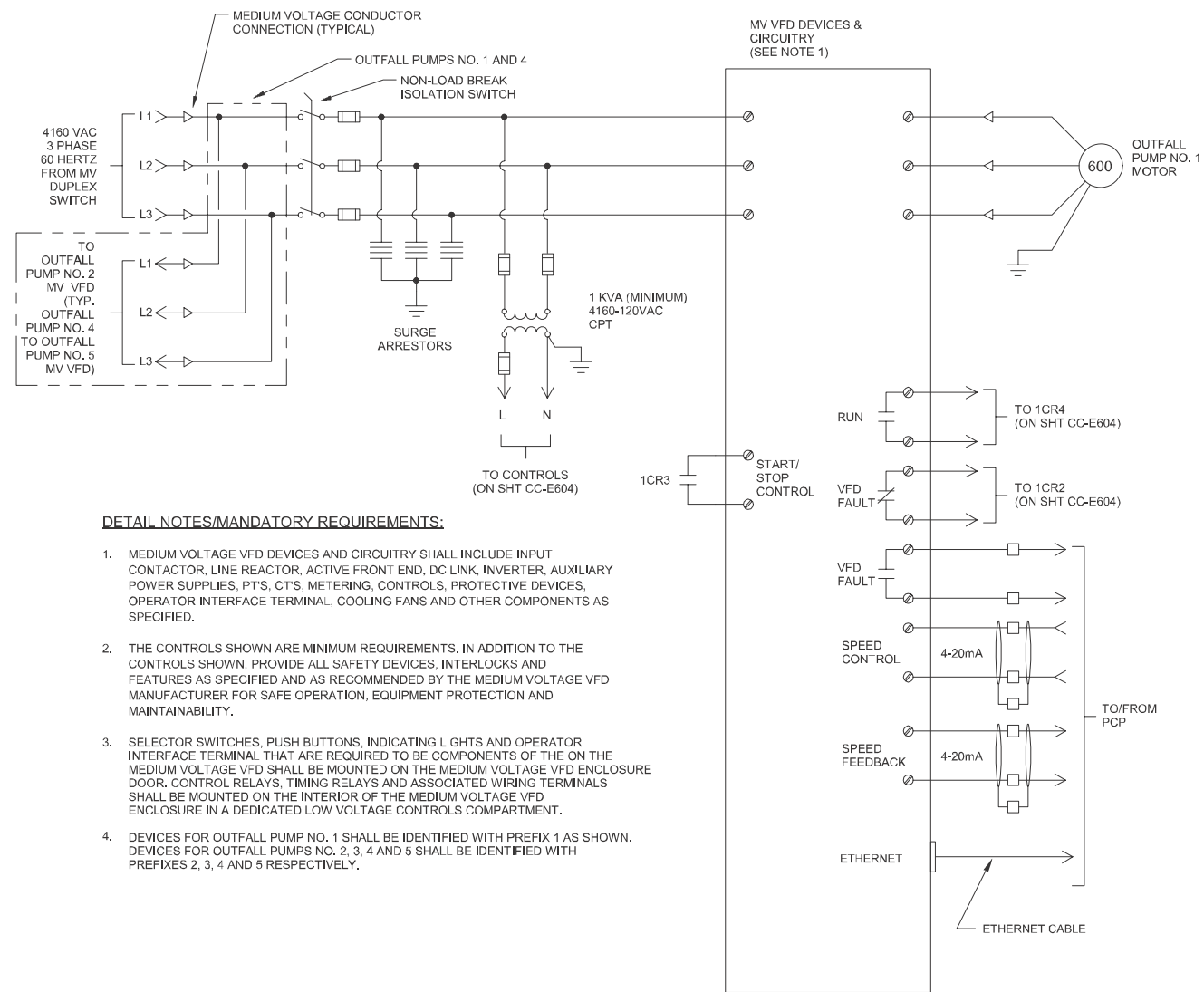
NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL EFFLUENT  
DIVERSION PROJECT

SHEET TITLE  
CEDAR CREEK  
EFFLUENT PUMP STATION  
MOTOR CONTROL WIRING  
DIAGRAMS

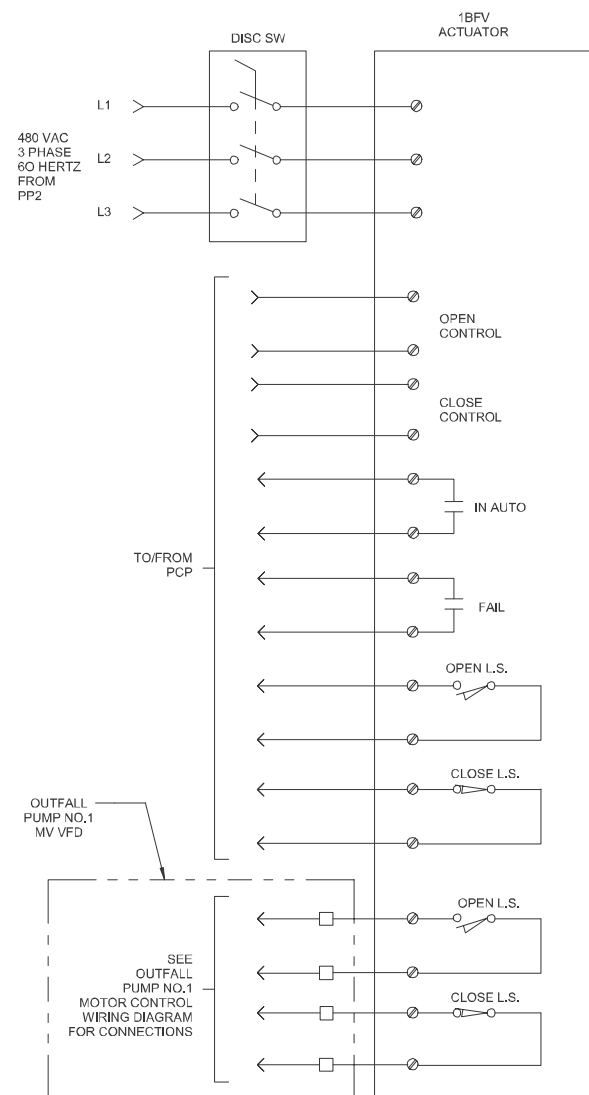
SCALE:  
AS NOTED

CC-E603  
PAGE 82



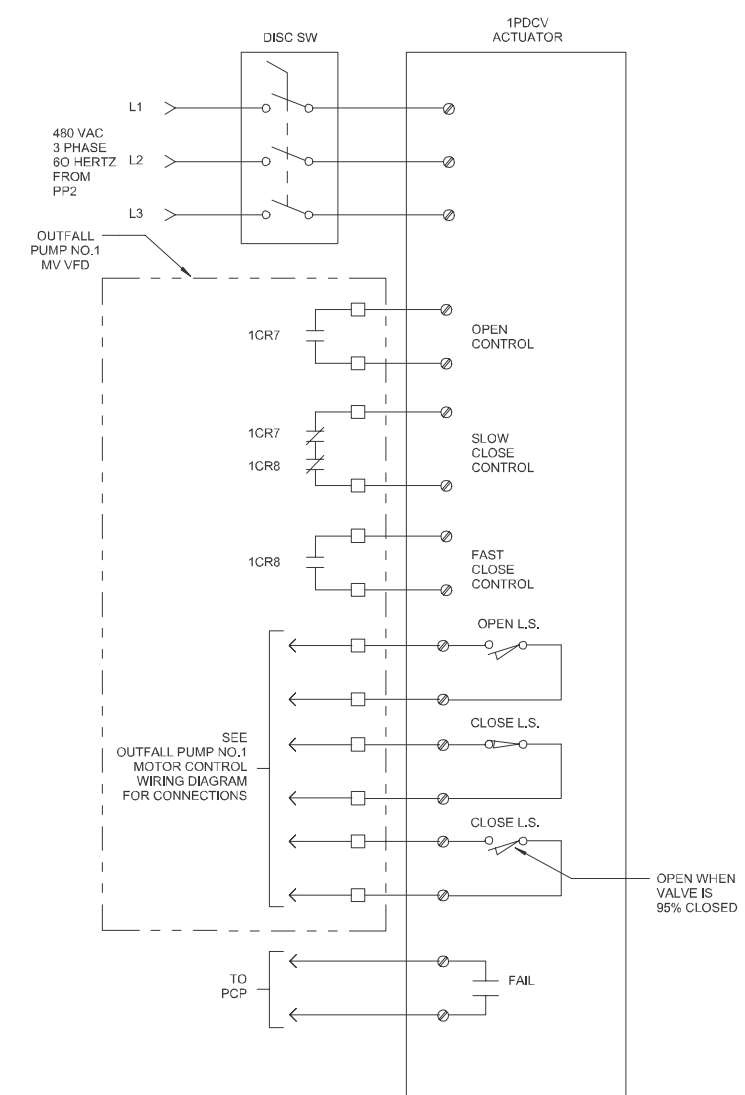
### OUTFALL PUMP NO. 1

NOT TO SCALE  
TYPICAL: 2PLV WITH OUTFALL PUMP NO. 2  
3PLV WITH OUTFALL PUMP NO. 3  
4PLV WITH OUTFALL PUMP NO. 4  
5PLV WITH OUTFALL PUMP NO. 5



### OUTFALL PUMP NO.1 PLUG VALVE (1BFV)

NOT TO SCALE  
TYPICAL: 2BFV WITH OUTFALL PUMP NO. 2  
3BFV WITH OUTFALL PUMP NO. 3  
4BFV WITH OUTFALL PUMP NO. 4  
5BFV WITH OUTFALL PUMP NO. 5



### OUTFALL PUMP NO.1 PUMP DISCHARGE CONTROL VALVE (1PDCV)

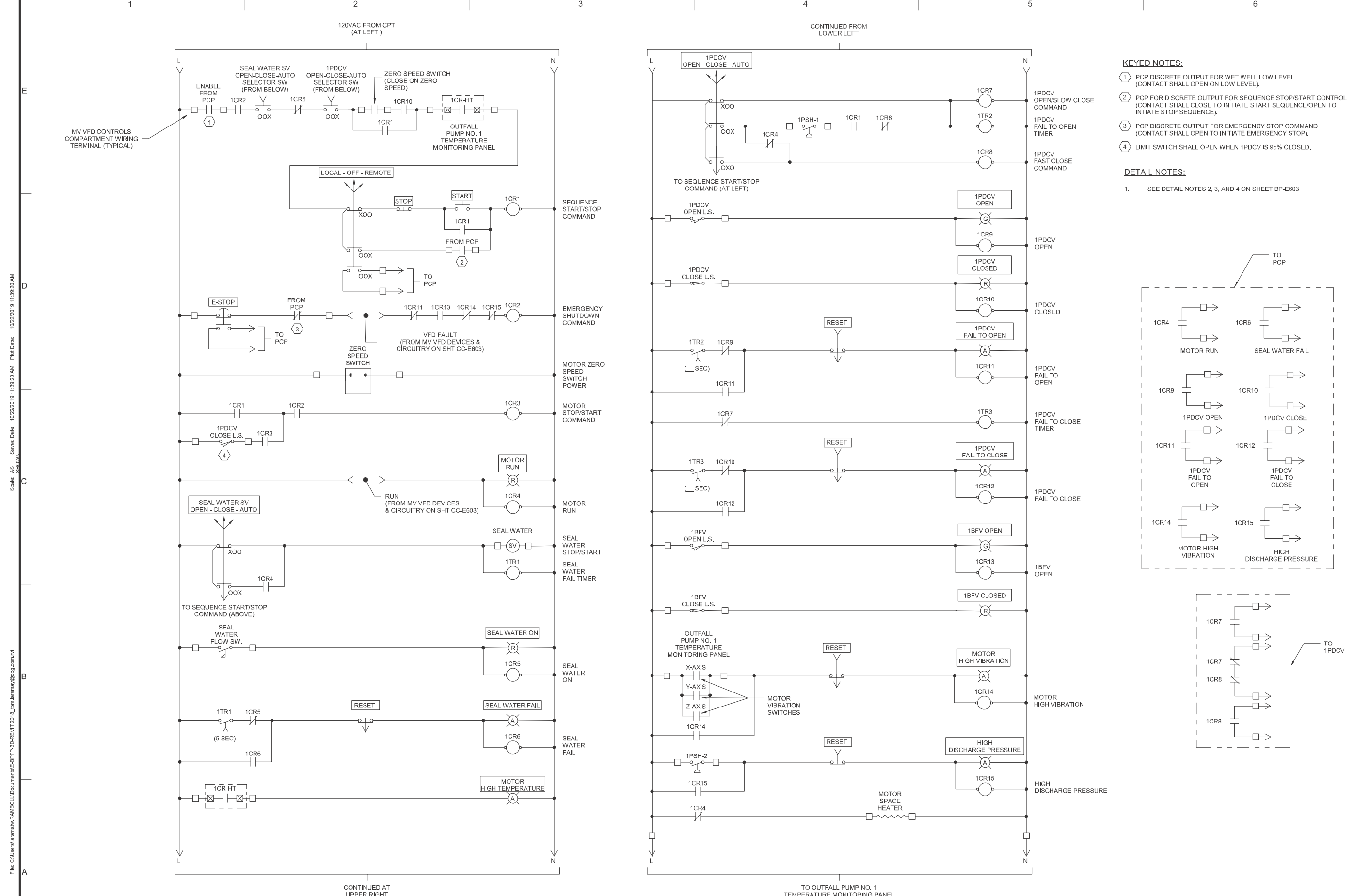
NOT TO SCALE  
TYPICAL: 2PDCV WITH OUTFALL PUMP NO. 2  
3PDCV WITH OUTFALL PUMP NO. 3  
4PDCV WITH OUTFALL PUMP NO. 4  
5PDCV WITH OUTFALL PUMP NO. 5

#### DETAIL NOTES/MANDATORY REQUIREMENTS:

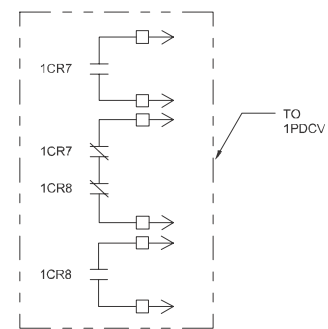
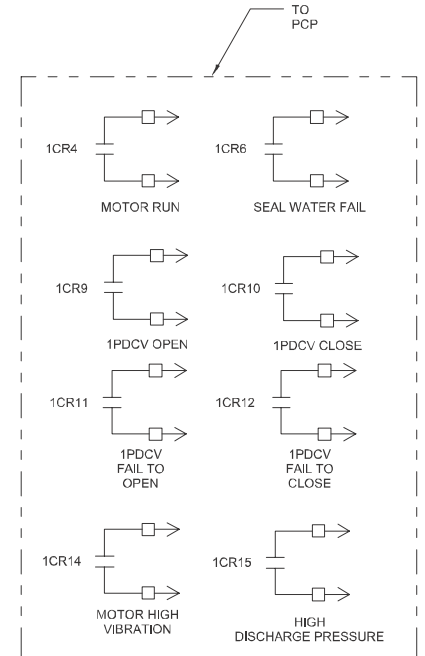
- MEDIUM VOLTAGE VFD DEVICES AND CIRCUITRY SHALL INCLUDE INPUT CONTACTOR, LINE REACTOR, ACTIVE FRONT END, DC LINK, INVERTER, AUXILIARY POWER SUPPLIES, PT'S, CT'S, METERING, CONTROLS, PROTECTIVE DEVICES, OPERATOR INTERFACE TERMINAL, COOLING FANS AND OTHER COMPONENTS AS SPECIFIED.
- THE CONTROLS SHOWN ARE MINIMUM REQUIREMENTS. IN ADDITION TO THE CONTROLS SHOWN, PROVIDE ALL SAFETY DEVICES, INTERLOCKS AND FEATURES AS SPECIFIED AND AS RECOMMENDED BY THE MEDIUM VOLTAGE VFD MANUFACTURER FOR SAFE OPERATION, EQUIPMENT PROTECTION AND MAINTAINABILITY.
- SELECTOR SWITCHES, PUSH BUTTONS, INDICATING LIGHTS AND OPERATOR INTERFACE TERMINAL THAT ARE REQUIRED TO BE COMPONENTS OF THE ON THE MEDIUM VOLTAGE VFD SHALL BE MOUNTED ON THE MEDIUM VOLTAGE VFD ENCLOSURE DOOR. CONTROL RELAYS, TIMING RELAYS AND ASSOCIATED WIRING TERMINALS SHALL BE MOUNTED ON THE INTERIOR OF THE MEDIUM VOLTAGE VFD ENCLOSURE IN A DEDICATED LOW VOLTAGE CONTROLS COMPARTMENT.
- DEVICES FOR OUTFALL PUMP NO. 1 SHALL BE IDENTIFIED WITH PREFIX 1 AS SHOWN. DEVICES FOR OUTFALL PUMPS NO. 2, 3, 4 AND 5 SHALL BE IDENTIFIED WITH PREFIXES 2, 3, 4 AND 5 RESPECTIVELY.

User: Spec: File: C:\Users\lunamw\RAMBOLL\Documents\EGP\PP2-3D-RE\IT 2019\lunamw\lunamw@bgs.com.rvt Scale: AS SHOWN Date: 10/22/2019 11:38:19 AM Plot Date: 10/22/2019 11:38:19 AM





- KEYED NOTES:**
- ① PCP DISCRETE OUTPUT FOR WET WELL LOW LEVEL (CONTACT SHALL OPEN ON LOW LEVEL).
  - ② PCP FOR DISCRETE OUTPUT FOR SEQUENCE STOP/START CONTROL (CONTACT SHALL CLOSE TO INITIATE START SEQUENCE/OPEN TO INITIATE STOP SEQUENCE).
  - ③ PCP DISCRETE OUTPUT FOR EMERGENCY STOP COMMAND (CONTACT SHALL OPEN TO INITIATE EMERGENCY STOP).
  - ④ LIMIT SWITCH SHALL OPEN WHEN 1PDCV IS 95% CLOSED.
- DETAIL NOTES:**
- 1. SEE DETAIL NOTES 2, 3, AND 4 ON SHEET BP-E603



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED BY THE FINAL 'RELEASED FOR CONSTRUCTION' SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION CONCERNING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	OCTOBER 2019		
PROJECT NO.:	71681		
APPROVED BY:	J. DOMANSKI		
DESIGNED BY:	J. CROSIER		
DRAWN BY:	J. CLARK		
CHECKED BY:	J. CROSIER		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS

OCEAN OUTFALL EFFLUENT DIVERSION PROJECT

SHEET TITLE

CEDAR CREEK  
EFFLUENT PUMP STATION  
MOTOR CONTROL WIRING  
DIAGRAM

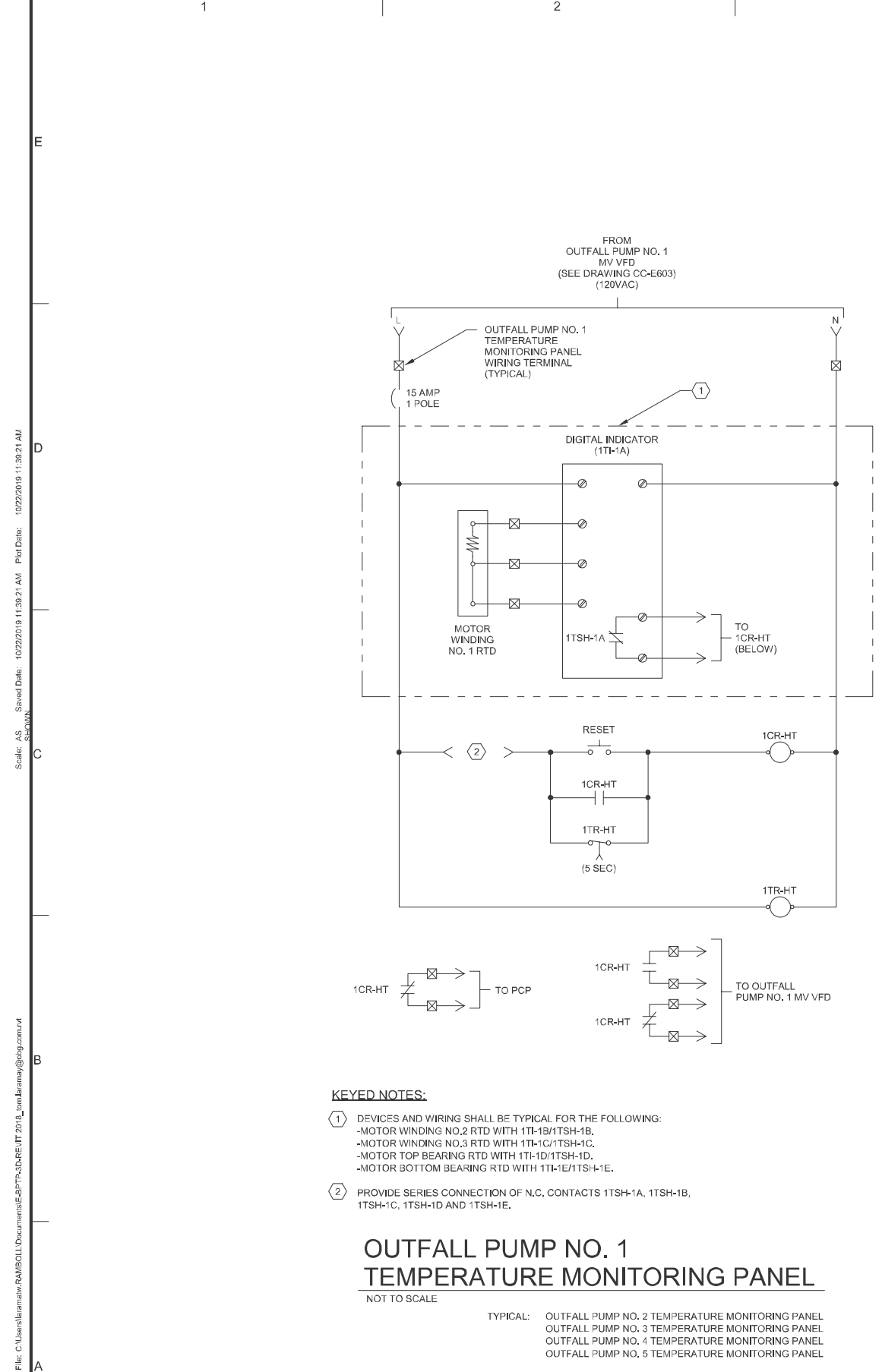
SCALE: AS NOTED

CC-E604  
PAGE 83

**OUTFALL PUMP NO. 1 VFD CONTROL DIAGRAM**  
NOT TO SCALE

TYPICAL: OUTFALL PUMP NO. 2 VFD  
OUTFALL PUMP NO. 3 VFD  
OUTFALL PUMP NO. 4 VFD  
OUTFALL PUMP NO. 5 VFD

User: Spec: File: C:\Users\lunamw\RAMBOLL\Documents\BP-E604\BP-E604-REVIT 2019\lunamw.dwg  
 Scale: AS NOTED  
 Date: 10/22/2019 11:30:20 AM  
 Plot Date: 10/22/2019 11:30:20 AM



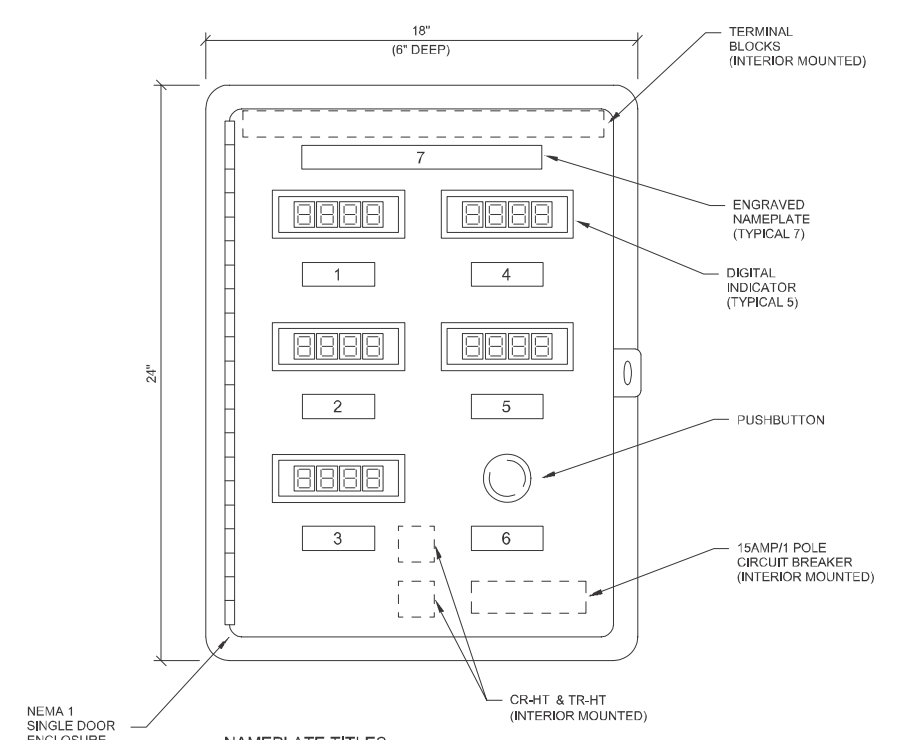
**KEYED NOTES:**

① DEVICES AND WIRING SHALL BE TYPICAL FOR THE FOLLOWING:  
 -MOTOR WINDING NO.2 RTD WITH 1TI-1B/1TSH-1B,  
 -MOTOR WINDING NO.3 RTD WITH 1TI-1C/1TSH-1C,  
 -MOTOR TOP BEARING RTD WITH 1TI-1D/1TSH-1D,  
 -MOTOR BOTTOM BEARING RTD WITH 1TI-1E/1TSH-1E.

② PROVIDE SERIES CONNECTION OF N.C. CONTACTS 1TSH-1A, 1TSH-1B, 1TSH-1C, 1TSH-1D AND 1TSH-1E.

**OUTFALL PUMP NO. 1  
TEMPERATURE MONITORING PANEL**  
 NOT TO SCALE

TYPICAL: OUTFALL PUMP NO. 2 TEMPERATURE MONITORING PANEL  
 OUTFALL PUMP NO. 3 TEMPERATURE MONITORING PANEL  
 OUTFALL PUMP NO. 4 TEMPERATURE MONITORING PANEL  
 OUTFALL PUMP NO. 5 TEMPERATURE MONITORING PANEL



- NAMEPLATE TITLES**
1. MOTOR WINDING NO. 1
  2. MOTOR WINDING NO. 2
  3. MOTOR WINDING NO. 3
  4. MOTOR TOP BEARING
  5. MOTOR BOTTOM BEARING
  6. RESET
  7. OUTFALL PUMP NO. 1 TEMPERATURE MONITORING PANEL

**OUTFALL PUMP NO. 1  
TEMPERATURE MONITORING PANEL DETAIL**  
 NOT TO SCALE

TYPICAL: OUTFALL PUMP NO. 2 TEMPERATURE MONITORING PANEL  
 OUTFALL PUMP NO. 3 TEMPERATURE MONITORING PANEL  
 OUTFALL PUMP NO. 4 TEMPERATURE MONITORING PANEL  
 OUTFALL PUMP NO. 5 TEMPERATURE MONITORING PANEL



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
 DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED BY THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE: OCTOBER 2019  
 PROJECT NO.: 71681  
 APPROVED BY: J. DOMANSKI  
 DESIGNED BY: J. CROSIER  
 DRAWN BY: J. CLARK  
 CHECKED BY: J. CROSIER

NASSAU COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC  
 WORKS

OCEAN OUTFALL EFFLUENT  
 DIVERSION PROJECT

**SHEET TITLE**

CEDAR CREEK  
 EFFLUENT PUMP STATION

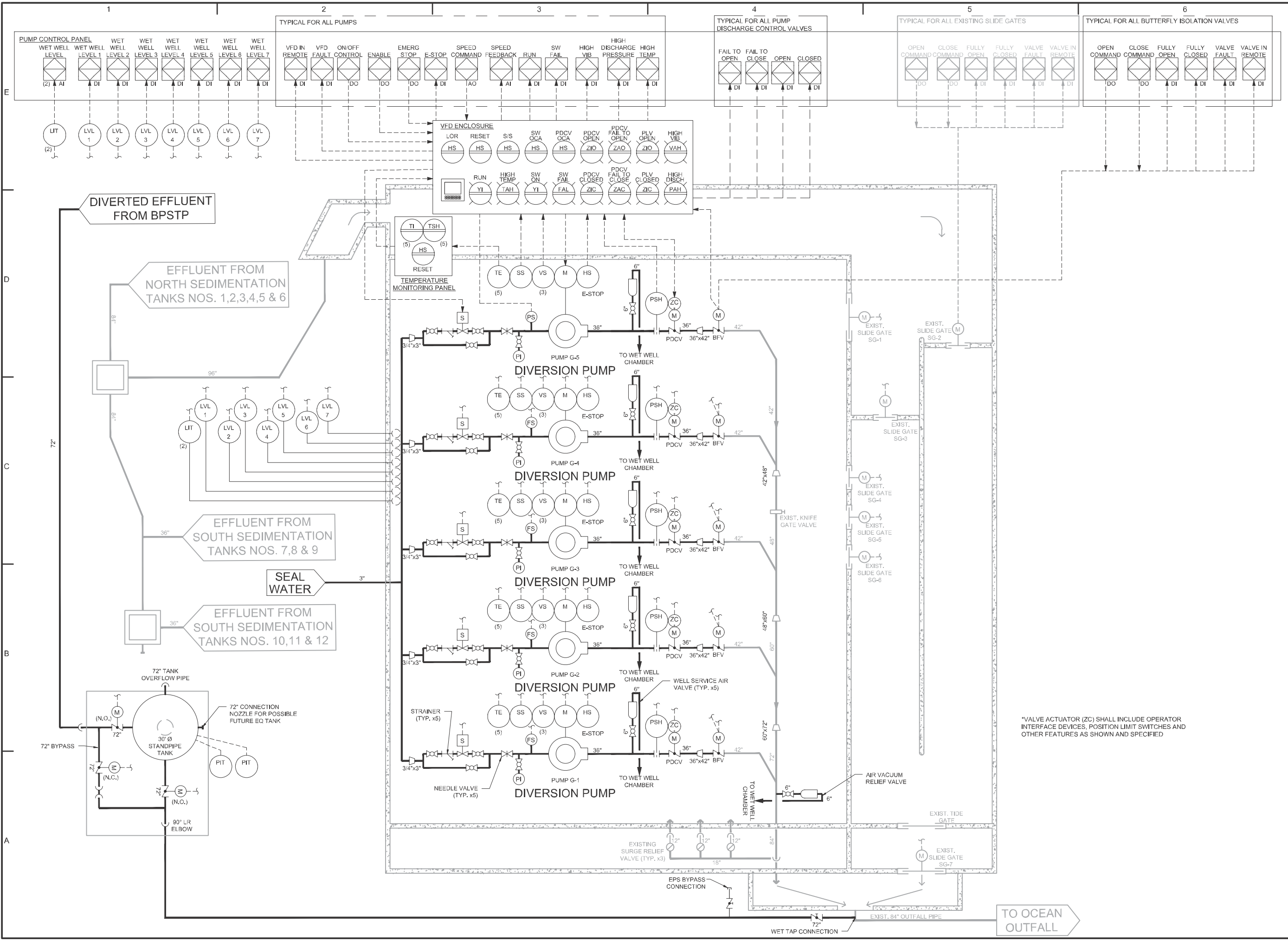
MOTOR CONTROL WIRING  
 DIAGRAMS

SCALE:  
 AS NOTED

CC-E605  
 PAGE 84

User: Spec: File: C:\Users\lunawm\OneDrive\Documents\BSP\FP-3D-RE-IT 2019\en\lunawm\lunawm@og.com.rvt  
 Scale: AS SHOWN  
 Saved Date: 10/22/2019 11:30:21 AM  
 Plot Date: 10/22/2019 11:30:21 AM  
 User: Spec:

User: MORALES, Space: US-NCSMADD File: C:\BMS\WSP-PB-US-PV-CC1601.DWG Scale: 1:1 Date: 11/11/2019 Time: 1:20 Pk: Data: Morales, Job: 12/11/2019 10:12:45: Layout: CC-1601



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	OCTOBER 2019		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	CC-1601		
DESIGNED BY:	A. STEINHAUER		
DRAWN BY:	J. OWENS		
CHECKED BY:	F. PULIDO		

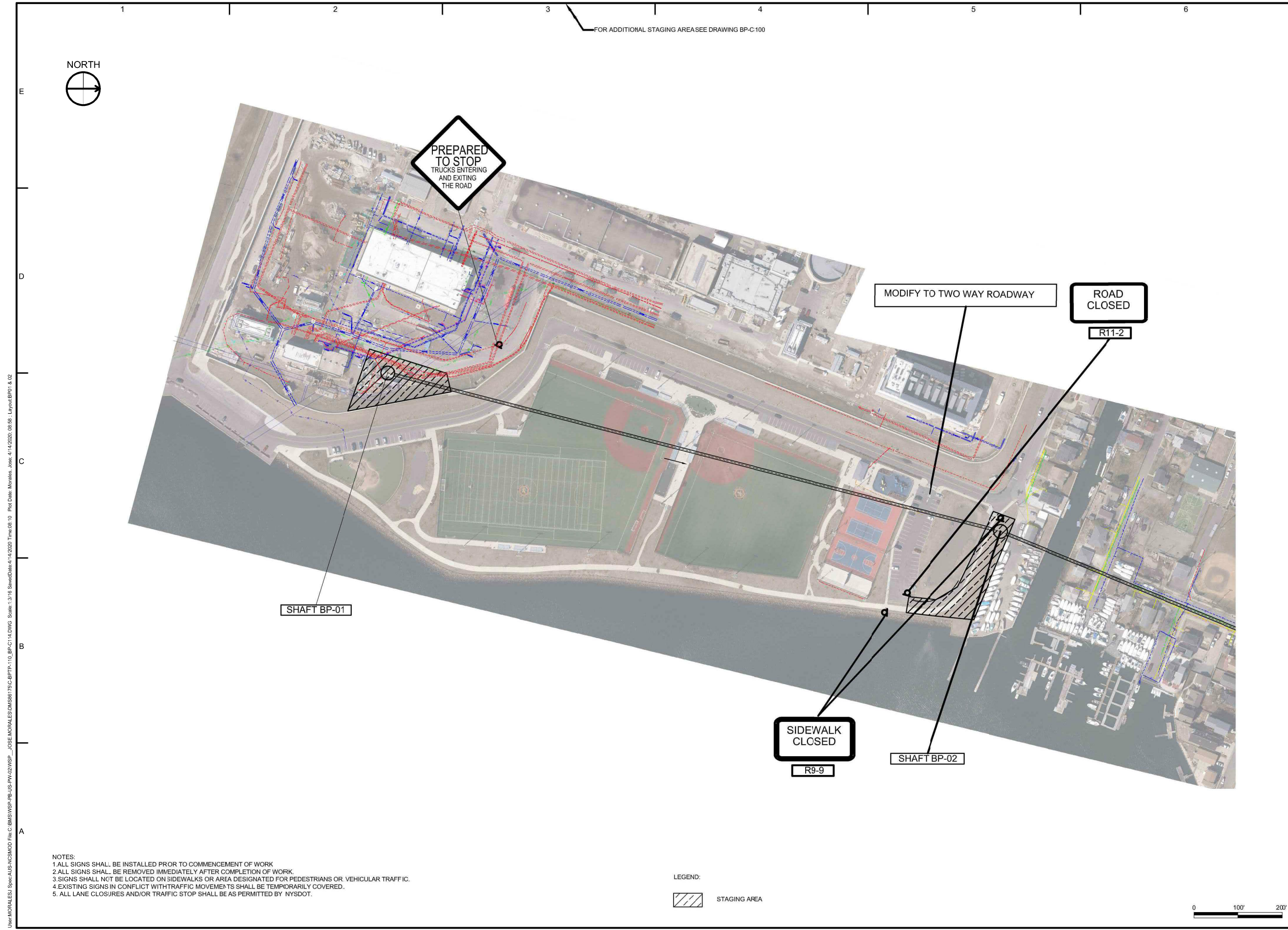
NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS  
  
OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE  
  
CEDAR CREEK  
EFFLUENT PUMP STATION  
  
EXISTING EFFLUENT  
PUMPING STATION  
UPGRADE  
P&ID

SCALE: AS SHOWN  
  
CC-1601  
  
PAGE 85

\*VALVE ACTUATOR (ZC) SHALL INCLUDE OPERATOR INTERFACE DEVICES, POSITION LIMIT SWITCHES AND OTHER FEATURES AS SHOWN AND SPECIFIED



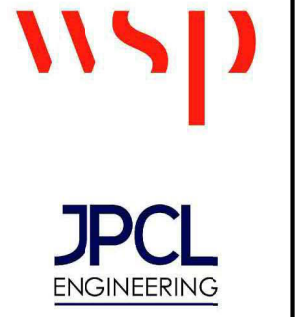


FOR ADDITIONAL STAGING AREA SEE DRAWING BP-C-100



User: MORALESJ; Spec: A-US-NC5M00; File: C:\BMS\WSP-PB-US-PW-02\WSP...JOSE.MORALES\MS8675C-BPTP-110\_BP-C114.DWG; Scale: 1:316; Saved: 04/14/2020 10:08:58; Layout: BP01 & 02

- NOTES:
1. ALL SIGNS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF WORK
  2. ALL SIGNS SHALL BE REMOVED IMMEDIATELY AFTER COMPLETION OF WORK.
  3. SIGNS SHALL NOT BE LOCATED ON SIDEWALKS OR AREA DESIGNATED FOR PEDESTRIANS OR VEHICULAR TRAFFIC.
  4. EXISTING SIGNS IN CONFLICT WITH TRAFFIC MOVEMENTS SHALL BE TEMPORARILY COVERED.
  5. ALL LANE CLOSURES AND/OR TRAFFIC STOP SHALL BE AS PERMITTED BY NYSDOT.



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE: APRIL 2020  
 PROJECT NO.: PW-S3B116-03CR  
 FILE NAME: C-BPTP-110\_BP-C114  
 DESIGNED BY: S.OUABI  
 DRAWN BY: S.OUABI  
 CHECKED BY: S. HAQ

NASSAU COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC  
 WORKS

OCEAN OUTFALL  
 EFFLUENT DIVERSION  
 PROJECT

SHEET TITLE

BAY PARK FORCE MAIN

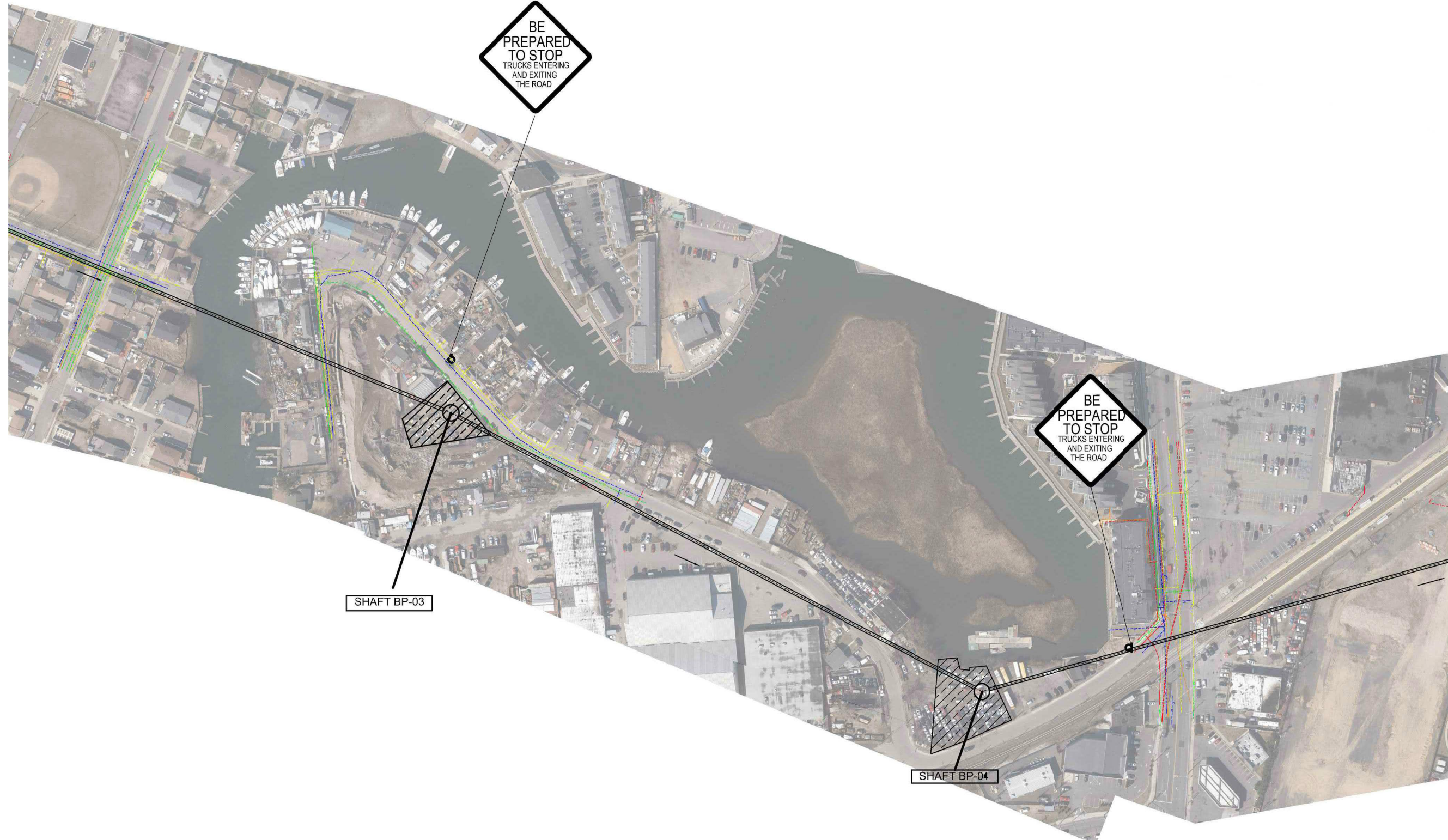
WORK ZONE SHAFT 1 & 2  
 TRAFFIC CONTROL AND  
 EXISTING UTILITIES

SCALE: AS SHOWN

**BP-C110**

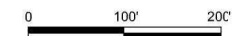
PAGE 86





- NOTES:
1. ALL SIGNS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF WORK
  2. ALL SIGNS SHALL BE REMOVED IMMEDIATELY AFTER COMPLETION OF WORK.
  3. SIGNS SHALL NOT BE LOCATED ON SIDEWALKS OR AREA DESIGNATED FOR PEDESTRIANS OR VEHICULAR TRAFFIC.
  4. EXISTING SIGNS IN CONFLICT WITH TRAFFIC MOVEMENTS SHALL BE TEMPORARILY COVERED.
  5. ALL LANE CLOSURES AND/OR TRAFFIC STOP SHALL BE AS PERMITTED BY NYSDOT.

LEGEND:  
 STAGING AREA



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE: APRIL 2020  
 PROJECT NO.: PW-S3B116-03CR  
 FILE NAME: C-BPTP-110\_BP-C114  
 DESIGNED BY: S.OUABI  
 DRAWN BY: S.OUABI  
 CHECKED BY: S. HAQ

NASSAU COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC  
 WORKS

OCEAN OUTFALL  
 EFFLUENT DIVERSION  
 PROJECT

SHEET TITLE

BAY PARK FORCE MAIN

WORK ZONE SHAFT 3 & 4  
 TRAFFIC CONTROL AND  
 EXISTING UTILITIES

SCALE: AS SHOWN

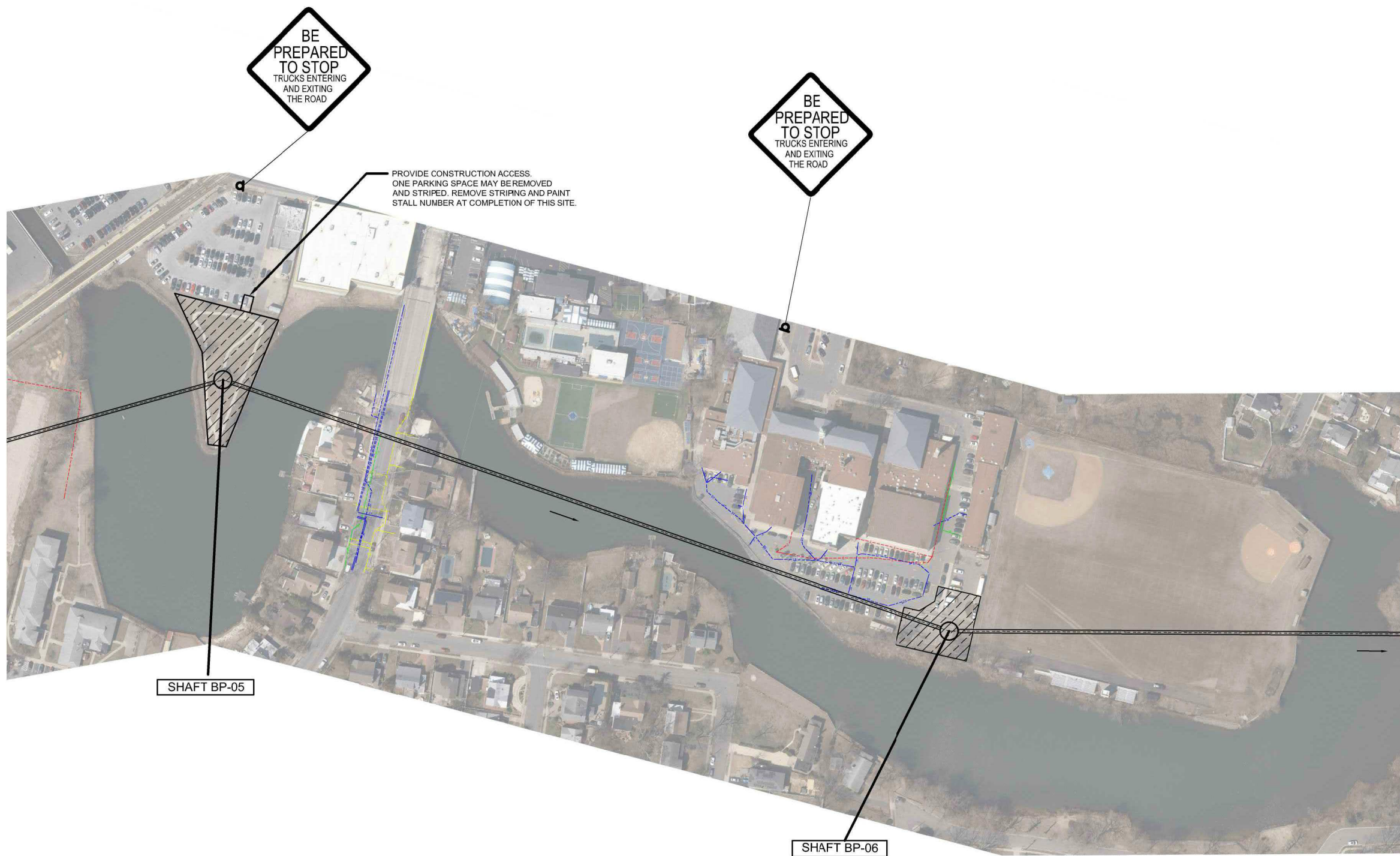
BP-C111

PAGE 87

User: MORALESJ; Spec: A-US-NCSMCD; File: C:\BMS\WSP-PB-US-PW-02\WSP...JOSE.MORALES\MSB675C-BPTP-110\_BP-C114.DWG; Scale: 1:316; SavedDate: 3/30/2020; Time: 07:32; Plot Date: Morales; Job: 4/14/2020; 08:00; Layout: BP03 & 04

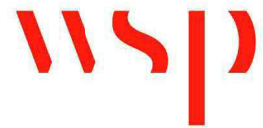
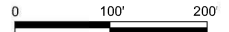


User: MORALESJ, Spec: A-US-NC5M00D, File: C:\BMS\WSP-PB-US-PW-02\WSP...JOSE.MORALES\MS8675C-BPTP-110\_BP-C114.DWG, Scale: 1:316, SavedDate: 3/20/2020, Time: 07:32, Plot Date: Morales, Job: 4/14/2020, 08:01, Layout: BP05 & 06



- NOTES:
1. ALL SIGNS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF WORK.
  2. ALL SIGNS SHALL BE REMOVED IMMEDIATELY AFTER COMPLETION OF WORK.
  3. SIGNS SHALL NOT BE LOCATED ON SIDEWALKS OR AREA DESIGNATED FOR PEDESTRIANS OR VEHICULAR TRAFFIC.
  4. EXISTING SIGNS IN CONFLICT WITH TRAFFIC MOVEMENTS SHALL BE TEMPORARILY COVERED.
  5. ALL LANE CLOSURES AND/OR TRAFFIC STOP SHALL BE AS PERMITTED BY NYS DOT.

LEGEND:  
 STAGING AREA



**JPCL**  
ENGINEERING

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	C-BPTP-110_BP-C114		
DESIGNED BY:	S. OUABI		
DRAWN BY:	S. OUABI		
CHECKED BY:	S. HAQ		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS  
  
OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE  
  
BAY PARK FORCE MAIN  
  
WORK ZONE SHAFT 5 & 6  
TRAFFIC CONTROL AND  
EXISTING UTILITIES

SCALE: AS SHOWN  
  
**BP-C112**  
  
PAGE 88

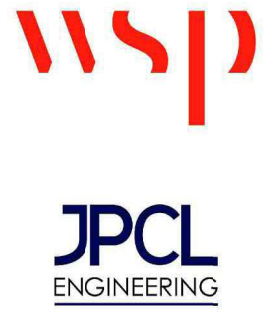
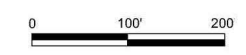


User: MORALESJ, Spec: A-US-NC5M000, File: C:\BMS\WSP-PB-US-PW-02\WSP...JOSE.MORALES\MSB675C-BPTP-110\_BP-C114.DWG, Scale: 1:316, SavedDate: 3/20/2020, Time: 07:32, Plot Date: Morales, Job: 4/14/2020, 08:03, Layout: BP07 & 08



- NOTES:
1. ALL SIGNS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF WORK.
  2. ALL SIGNS SHALL BE REMOVED IMMEDIATELY AFTER COMPLETION OF WORK.
  3. SIGNS SHALL NOT BE LOCATED ON SIDEWALKS OR AREA DESIGNATED FOR PEDESTRIANS OR VEHICULAR TRAFFIC.
  4. EXISTING SIGNS IN CONFLICT WITH TRAFFIC MOVEMENTS SHALL BE TEMPORARILY COVERED.
  5. ALL LANE CLOSURES AND/OR TRAFFIC STOP SHALL BE AS PERMITTED BY NYSDOT.

LEGEND:  
 STAGING AREA



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	C-BPTP-110_BP-C114		
DESIGNED BY:	S.OUABI		
DRAWN BY:	S.OUABI		
CHECKED BY:	S. HAQ		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

BAY PARK FORCE MAIN

WORK ZONE SHAFT 7 & 8  
TRAFFIC CONTROL AND  
EXISTING UTILITIES

SCALE: AS SHOWN

**BP-C113**

PAGE 89





**JPCL**  
ENGINEERING

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

FINAL DESIGN CRITERIA PACKAGE	
DATE:	APRIL 2020
PROJECT NO.:	PW-S3B116-03CR
FILE NAME:	C-BPTP-110_BP-C114
DESIGNED BY:	S.OUABI
DRAWN BY:	S.OUABI
CHECKED BY:	S. HAQ

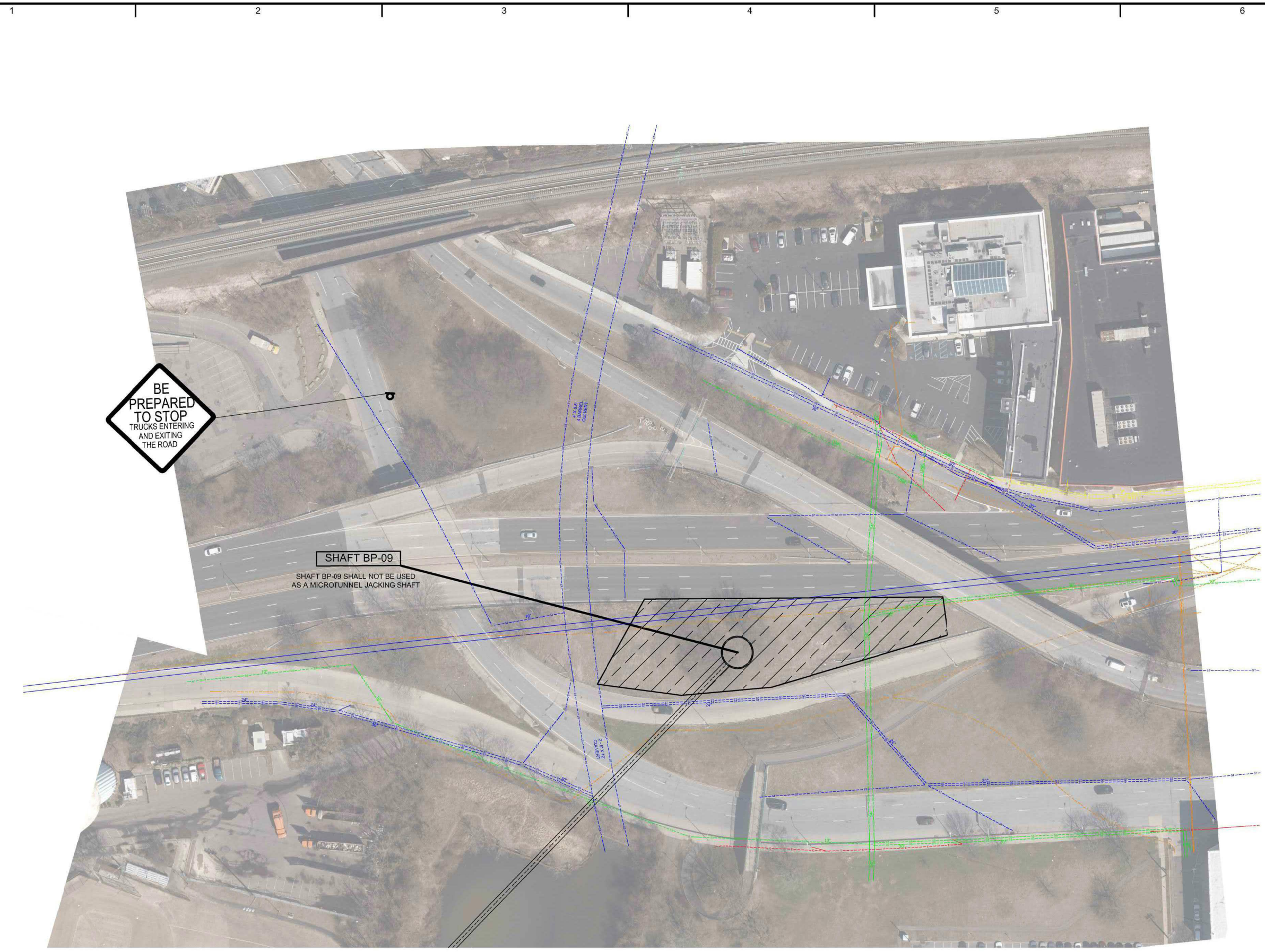
NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS  
  
OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE  
  
BAY PARK FORCE MAIN  
  
WORK ZONE SHAFT 9  
TRAFFIC CONTROL AND  
EXISTING UTILITIES

SCALE: AS SHOWN

BP-C114

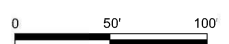
PAGE 90



- NOTES:
1. ALL SIGNS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF WORK.
  2. ALL SIGNS SHALL BE REMOVED IMMEDIATELY AFTER COMPLETION OF WORK.
  3. SIGNS SHALL NOT BE LOCATED ON SIDEWALKS OR AREA DESIGNATED FOR PEDESTRIANS OR VEHICULAR TRAFFIC.
  4. EXISTING SIGNS IN CONFLICT WITH TRAFFIC MOVEMENTS SHALL BE TEMPORARILY COVERED.
  5. ALL LANE CLOSURES AND/OR TRAFFIC STOP SHALL BE AS PERMITTED BY NYS DOT.

LEGEND:

 STAGING AREA



User: MORALESJ; Spec: A-US-NC5M00; File: C:\BMS\WSP-PB-US-PW-02\WSP...JOSE.MORALES\MS8675C-BPTP-110\_BP-C114.DWG; Scale: 1/316; Saved: 04/20/2020 11:07:32; Plot Date: Morales; Job: 4/14/2020; 08:07; Layout: BP09





**JPCL**  
ENGINEERING

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
-----	------	------------	----

FINAL DESIGN  
CRITERIA PACKAGE

DATE: APRIL 2020  
PROJECT NO.: PW-S3B116-03CR  
FILE NAME: C-CCTP-107\_110  
DESIGNED BY: S. OUABI  
DRAWN BY: S. OUABI  
CHECKED BY: S. HAQ

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

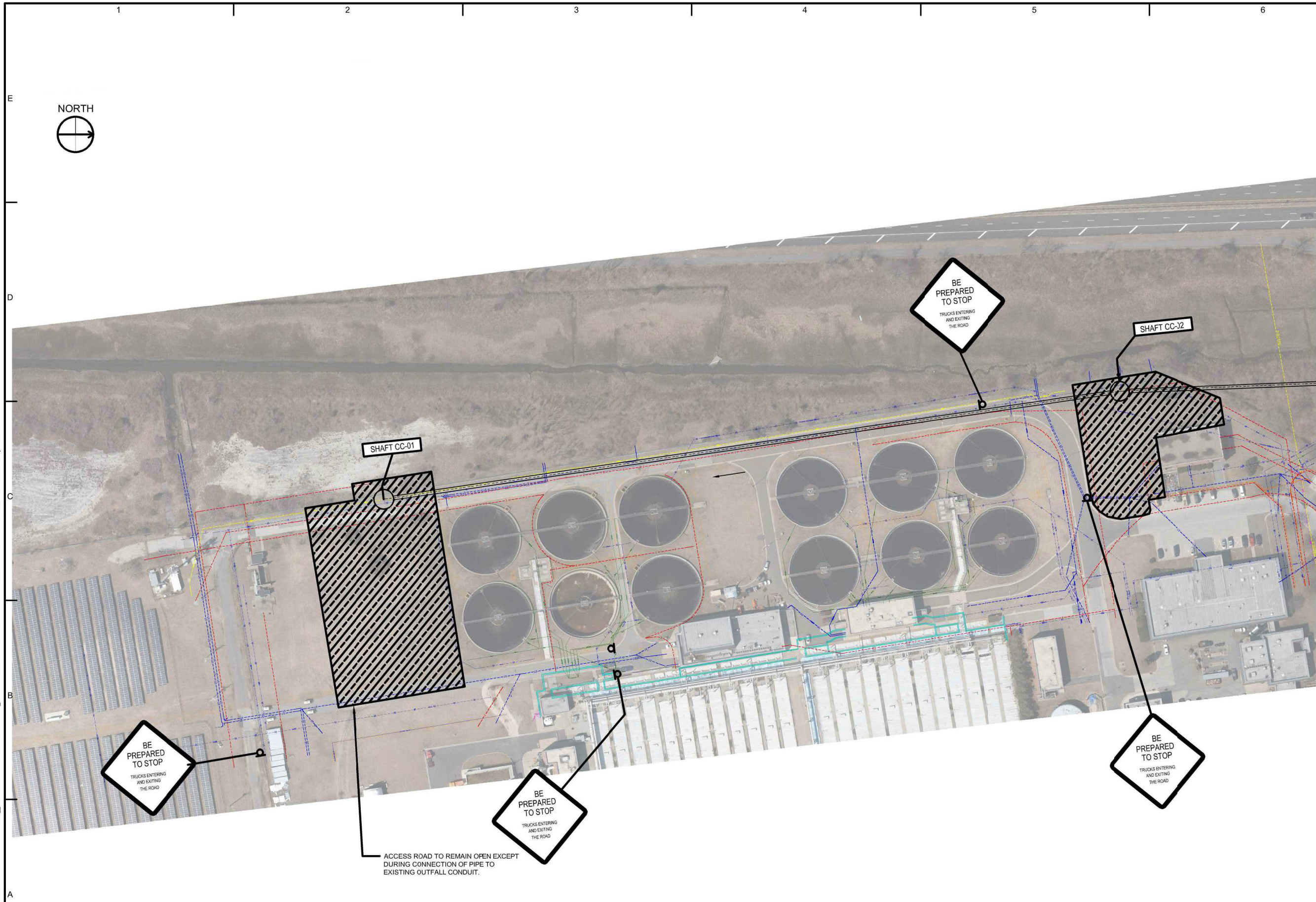
CEDAR CREEK FORCE MAIN

WORK ZONE SHAFT 1 & 2  
TRAFFIC CONTROL AND  
EXISTING UTILITIES

SCALE: AS SHOWN

CC-C107

PAGE 91



- NOTES:
1. ALL SIGNS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF WORK
  2. ALL SIGNS SHALL BE REMOVED IMMEDIATELY AFTER COMPLETION OF WORK.
  3. SIGNS SHALL NOT BE LOCATED ON SIDEWALKS OR AREA DESIGNATED FOR PEDESTRIANS OR VEHICULAR TRAFFIC.
  4. EXISTING SIGNS IN CONFLICT WITH TRAFFIC MOVEMENTS SHALL BE TEMPORARILY COVERED.
  5. ALL LANE CLOSURES AND/OR TRAFFIC STOP SHALL BE AS PERMITTED BY NYSDDOT.

LEGEND:  
 STAGING AREA



\\user\MOJALESD\Spec-AUS\NCSM\CD File\C:\BMS\WSP-PB-US-PW-02\WSP...JOSE.MORALESD\MSB675\C-CCTP-107\_110.DWG Scale: 1:316 Saved Date: 4/14/2020 Time: 08:34 Plot Date: 04/14/2020 08:34 Plot Date: 08:34 Layout: CC-C107





**JPCL**  
ENGINEERING

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE: APRIL 2020  
 PROJECT NO.: PW-S3B116-03CR  
 FILE NAME: C-CCTP-107\_110  
 DESIGNED BY: S. OUABI  
 DRAWN BY: S. OUABI  
 CHECKED BY: S. HAQ

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

CEDAR CREEK FORCE MAIN

WORK ZONE SHAFT 3 & 4  
TRAFFIC CONTROL AND  
EXISTING UTILITIES

SCALE: AS SHOWN

CC-C108

PAGE 92



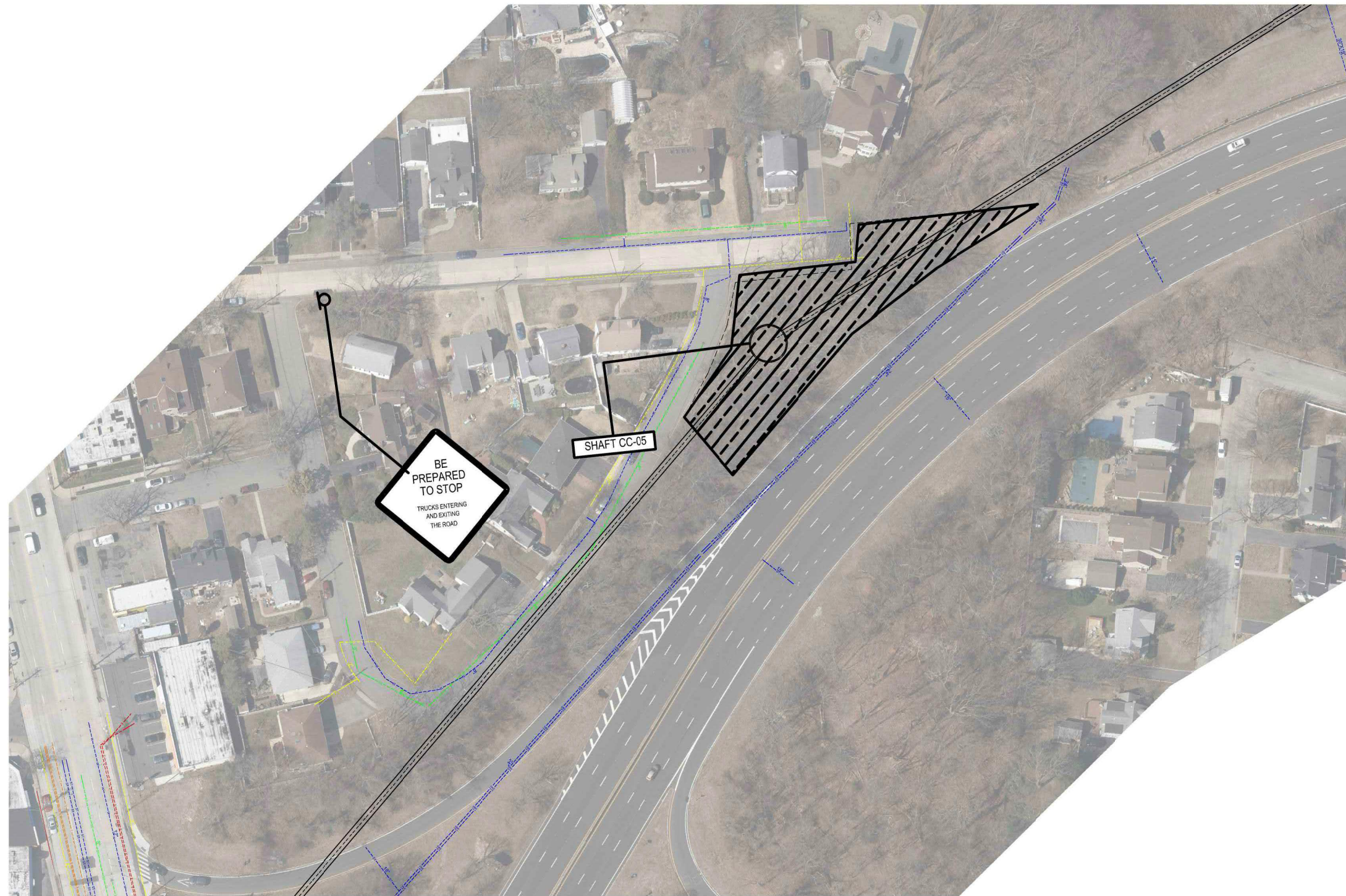
- NOTES:
1. ALL SIGNS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF WORK.
  2. ALL SIGNS SHALL BE REMOVED IMMEDIATELY AFTER COMPLETION OF WORK.
  3. SIGNS SHALL NOT BE LOCATED ON SIDEWALKS OR AREA DESIGNATED FOR PEDESTRIANS OR VEHICULAR TRAFFIC.
  4. EXISTING SIGNS IN CONFLICT WITH TRAFFIC MOVEMENTS SHALL BE TEMPORARILY COVERED.
  5. ALL LANE CLOSURES AND/OR TRAFFIC STOP SHALL BE AS PERMITTED BY NYSDOT.

LEGEND:



\\nas01\proj\107\_110\DWG\Scale\1:316\Sheet\Date\4/14/2020\Time\08:34 Pst\Draw:Morales, Jose\4/14/2020\08:37\Layout\CC-C108





- NOTES:
1. ALL SIGNS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF WORK
  2. ALL SIGNS SHALL BE REMOVED IMMEDIATELY AFTER COMPLETION OF WORK.
  3. SIGNS SHALL NOT BE LOCATED ON SIDEWALKS OR AREA DESIGNATED FOR PEDESTRIANS OR VEHICULAR TRAFFIC.
  4. EXISTING SIGNS IN CONFLICT WITH TRAFFIC MOVEMENTS SHALL BE TEMPORARILY COVERED.
  5. ALL LANE CLOSURES AND/OR TRAFFIC STOP SHALL BE AS PERMITTED BY NYS DOT.

LEGEND:



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	C-CCTP-107_110		
DESIGNED BY:	S. OUABI		
DRAWN BY:	S. OUABI		
CHECKED BY:	S. HAQ		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

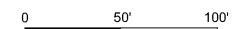
CEDAR CREEK FORCE MAIN

WORK ZONE SHAFT 5  
TRAFFIC CONTROL AND  
EXISTING UTILITIES

SCALE: AS SHOWN

CC-C109

PAGE 93

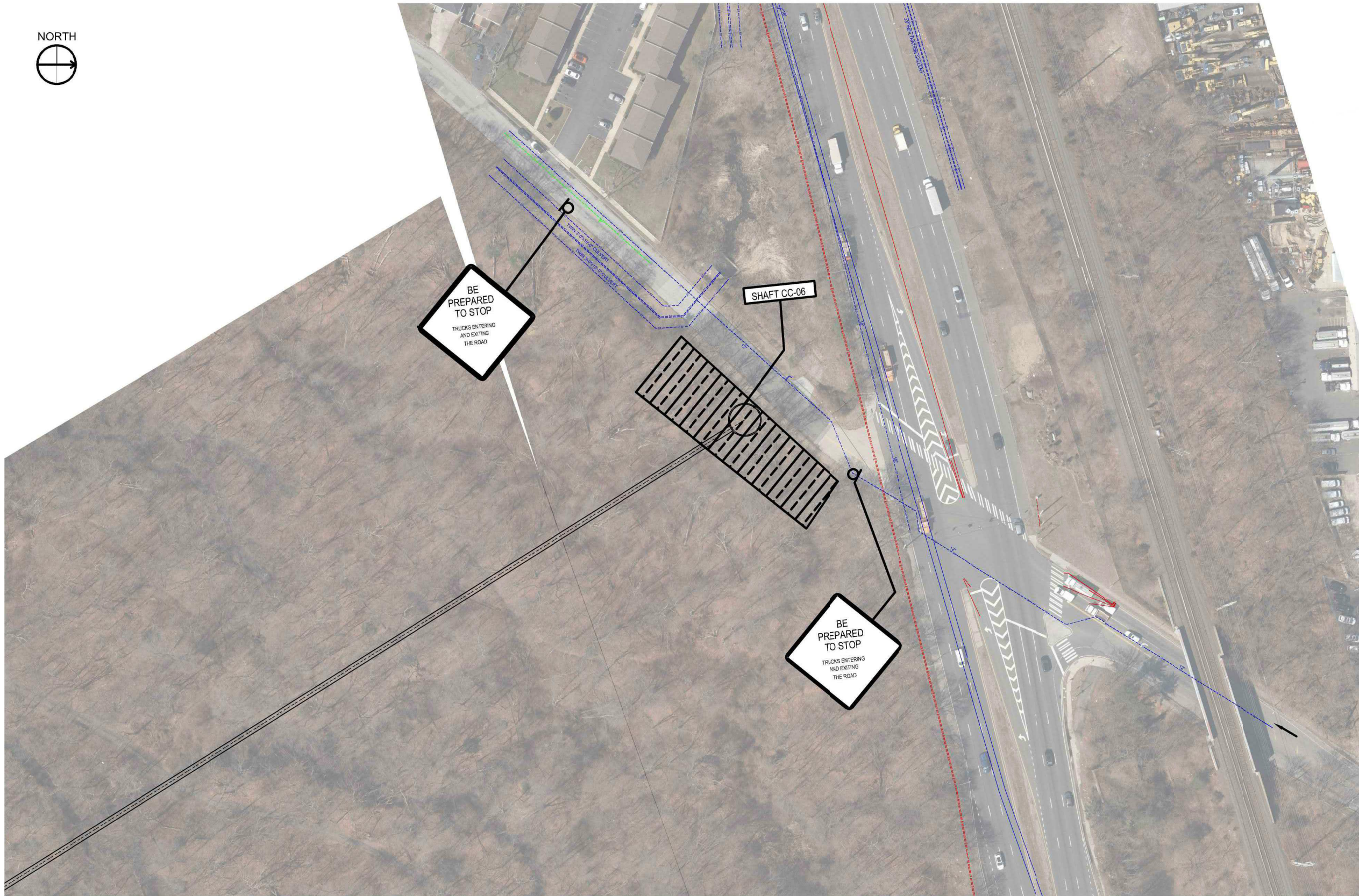


User: MORALESJ, Spec: A-US-NCSM00, File: C:\BMS\WSP-PB-US-PW-02\WSP...JOSE.MORALES\BMS8675C-CCTP-107\_110.DWG, Scale: 1:316, SavedDate: 4/14/2020, Time: 08:34, Plot Date: Morales, Job: 4/14/2020, 08:38, Layout: CC-C109





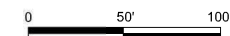
User: MORALESJ, Spec: A-US-NCSMCD, File: C:\BMS\WSP-PB-US-PW-02\WSP...JOSE.MORALES\BMS8675C-CCTP-107\_110.DWG, Scale: 1:316, SheetDate: 4/14/2020, Time: 08:34, Plot Date: Morales, Job: 4/14/2020, 08:39, Layout: CC-C110



- NOTES:
1. ALL SIGNS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF WORK
  2. ALL SIGNS SHALL BE REMOVED IMMEDIATELY AFTER COMPLETION OF WORK.
  3. SIGNS SHALL NOT BE LOCATED ON SIDEWALKS OR AREA DESIGNATED FOR PEDESTRIANS OR VEHICULAR TRAFFIC.
  4. EXISTING SIGNS IN CONFLICT WITH TRAFFIC MOVEMENTS SHALL BE TEMPORARILY COVERED.
  5. ALL LANE CLOSURES AND/OR TRAFFIC STOP SHALL BE AS PERMITTED BY INYS DOT.

LEGEND:

 STAGING AREA



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

FINAL DESIGN CRITERIA PACKAGE			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	C-CCTP-107_110		
DESIGNED BY:	S. OUABI		
DRAWN BY:	S. OUABI		
CHECKED BY:	S. HAQ		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

CEDAR CREEK FORCE MAIN

WORK ZONE SHAFT 6  
TRAFFIC CONTROL AND  
EXISTING UTILITIES

SCALE: AS SHOWN

CC-C110

PAGE 94





**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	CC-C110_C111		
DESIGNED BY:	M. BROWN		
DRAWN BY:	J. JARRETT		
CHECKED BY:	S. HAQ		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

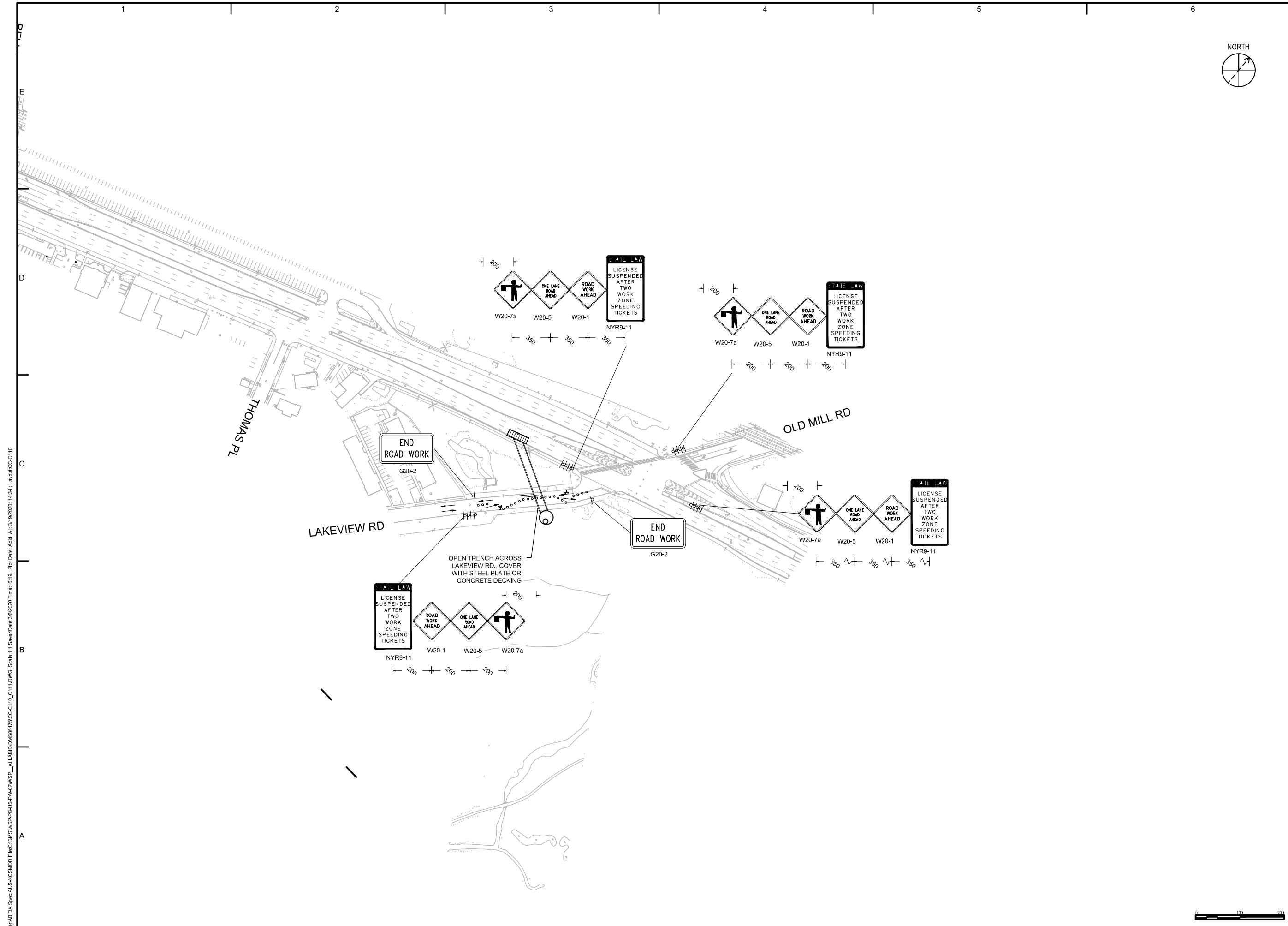
**CEDAR CREEK**

WORK ZONE TRAFFIC  
CONTROL NORTHBOUND  
LAKEVIEW ROAD

SCALE: AS SHOWN

**CC-C111**

PAGE 95



User: AUBDA-Shera-AUS-ACS-MOD File: C:\BMS\WSP-CP-05-PM-Q2\WSP\_A1\LABID\DWG\B0179CC-C110\_C111.DWG Scale: 1:1 Saved Date: 03/02/2020 Time: 10:19 Plot Date: Add: All 3/19/2020 1:04:11 Layout: CC-C110



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	CC-C110_C111		
DESIGNED BY:	M. BROWN		
DRAWN BY:	J. JARRETT		
CHECKED BY:	S. HAQ		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

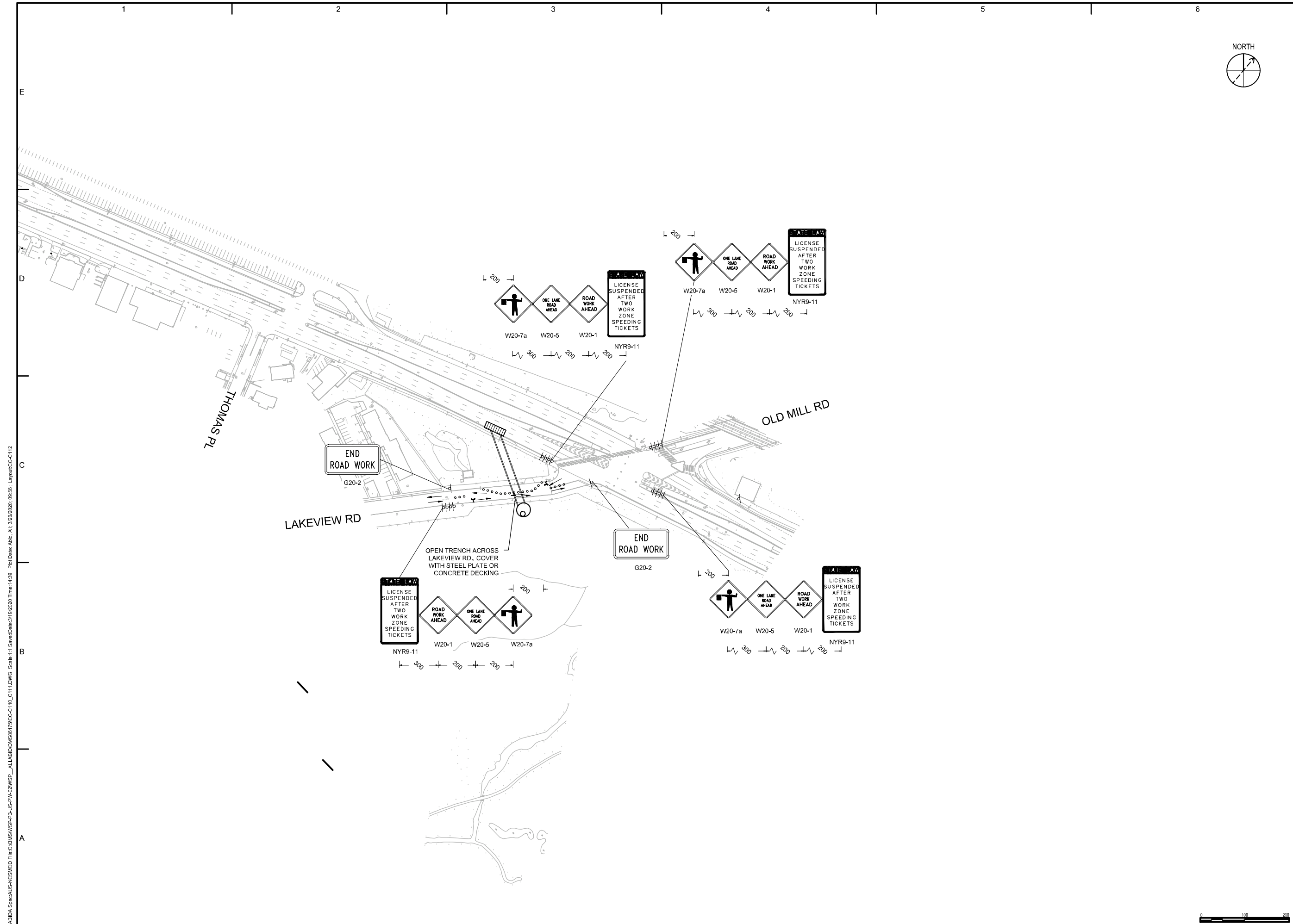
OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE  
**CEDAR CREEK**  
  
WORK ZONE TRAFFIC  
CONTROL SOUTHBOUND  
LAKEVIEW ROAD

SCALE: AS SHOWN

CC-C112

PAGE 96



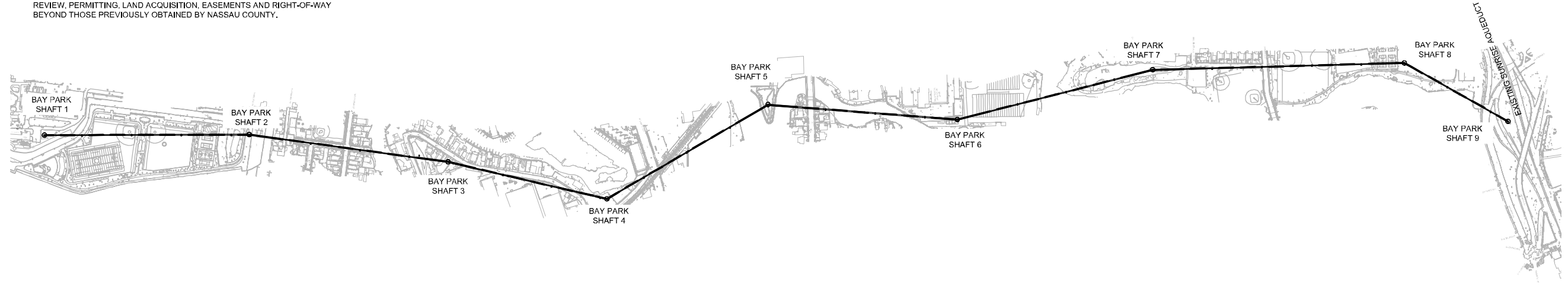
User:ABDA-SheraAUS-KCSMPC File:C:\BMS\WSP-PB-US-PK-QZ\WSP\_ALABID\MSB0179CC-C110\_C111.DWG Scale: 1:1 SavedDate: 3/19/2020 Time: 4:39 Plot Date: 4/1/2020 09:56 Layout: CC-C112



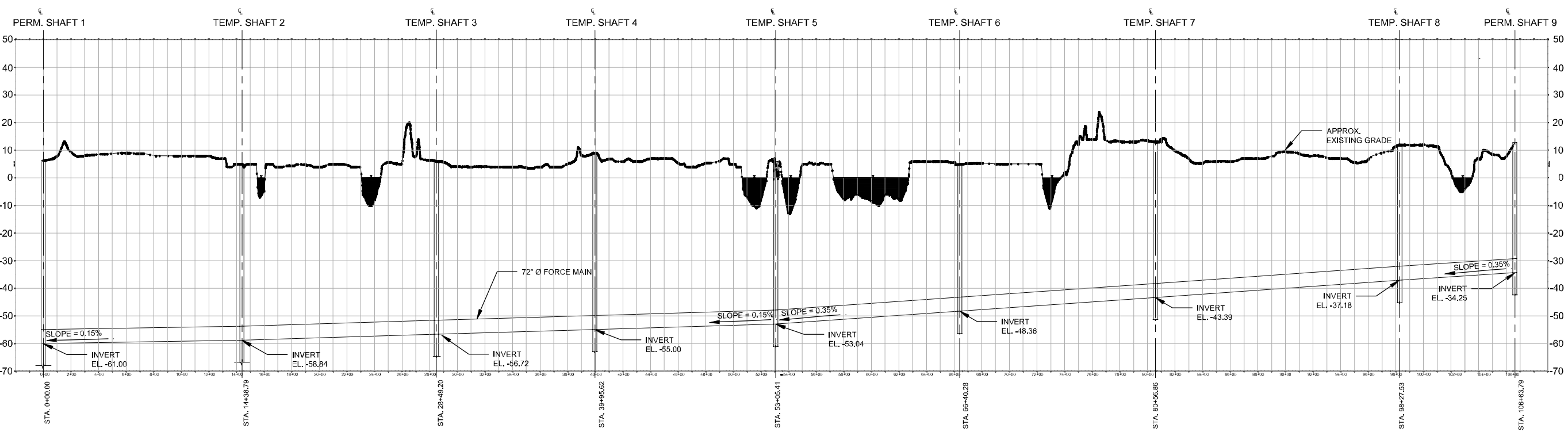
NOTES / MANDATORY REQUIREMENTS:

1. THE INFORMATION ON THIS PLAN IS PRESENTED ON CURRENTLY AVAILABLE SURVEY MAPPING.
2. DESIGN-BUILDER SHALL TEMPORARILY SUPPORT OR RELOCATE AT NO ADDITIONAL COST, ANY UTILITIES AFFECTED BY SHAFT CONSTRUCTION OR CONNECTION TO SUNRISE HIGHWAY AQUEDUCT.
3. THE MICROTUNNEL PROFILE IS INDICATIVE. DESIGN-BUILDER SHALL BE RESPONSIBLE FOR DESIGNING THE PROFILE, ACCOUNTING FOR ALL FACTORS INCLUDING GROUND CONDITIONS, DEPTH OF POTENTIAL OBSTRUCTIONS, SETTLEMENT AND BUOYANCY. IN NO CASE SHALL CROWN OF TUNNEL BE LESS THAN 15 FT. BELOW EXISTING GROUND LEVEL OR MUD LINE. FORCE MAIN SHALL SLOPE DOWN CONTINUOUSLY FROM SUNRISE HIGHWAY TO BPDPS TO FACILITATE FUTURE DRAINAGE.
4. THE MICROTUNNEL HORIZONTAL ALIGNMENTS AND SHAFT LOCATIONS SHOWN ARE MANDATORY REQUIREMENTS. MINOR ADJUSTMENTS ARE ALLOWED, AS DESCRIBED IN THE DESIGN CRITERIA REPORT. ALTERNATIVES SHALL BE SUBJECT TO ALTERNATIVE TECHNICAL CONCEPT (ATC) PROCEDURES. DESIGN BUILDER PROPOSING AN ATC SHALL BE RESPONSIBLE FOR ENVIRONMENTAL REVIEW, PERMITTING, LAND ACQUISITION, EASEMENTS AND RIGHT-OF-WAY BEYOND THOSE PREVIOUSLY OBTAINED BY NASSAU COUNTY.

5. FOR RESTRICTIONS ON WHICH MICROTUNNELS CAN BE CONSTRUCTED FIRST, AND WHERE 24 / 7 MINING IS REQUIRED, SEE DESIGN CRITERIA REPORT.
6. FOR ADDITIONAL REQUIREMENTS, SEE SPECIFICATION 02739 - MICROTUNNELING.

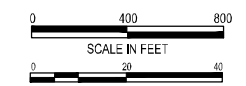


**BAY PARK FORCE MAIN PLAN**  
N.T.S.



**BAY PARK FORCE MAIN PROFILE**

HORZ. 1" = 40'  
VERT. 1" = 20'



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	BP-C201		
DESIGNED BY:	X. ZONG		
DRAWN BY:	R. CAESAR		
CHECKED BY:	R. JAIN		

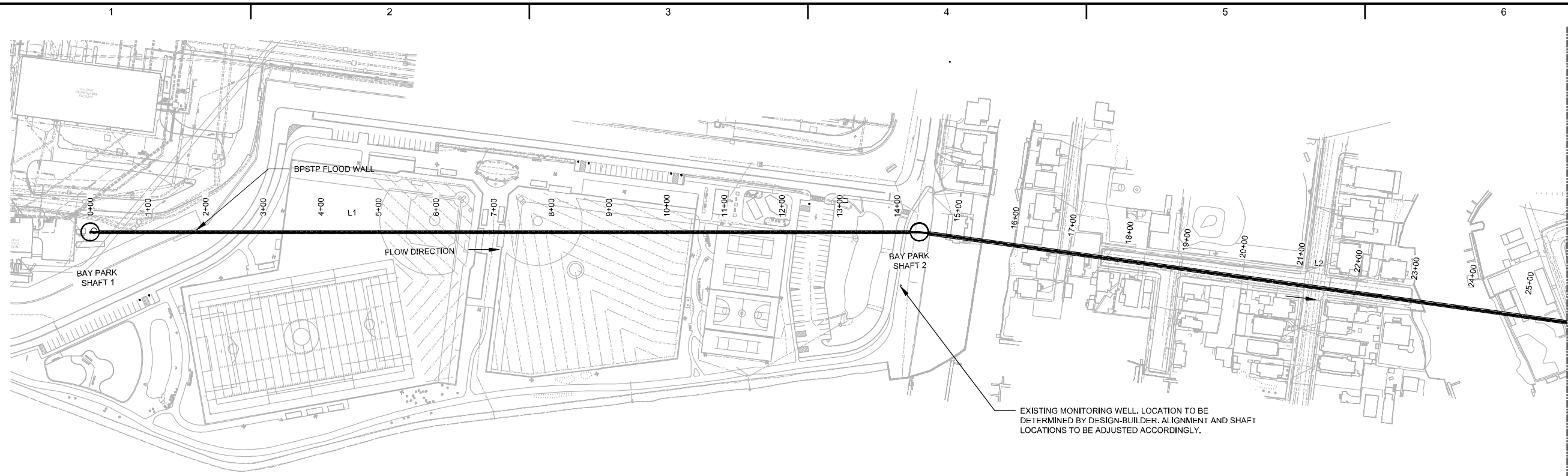
NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS  
  
OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE  
**BAY PARK FORCE MAIN  
ALIGNMENT  
PLAN AND PROFILE**

SCALE: AS SHOWN  
  
**BP-C201**  
PAGE 97

User: USRC67708; Sheet: A15-KCSMDD; File: C:\BMS\WSP-PB-US-PA-02\WSP\_PANOR\C\ES\PAR\MS681898D-C201.DWG; Scale: 1:1; Saved: 04/16/2020 11:13:19; Plo: Dink; Casuar; Raab; 4/17/2020; 12:42; Layout: C201

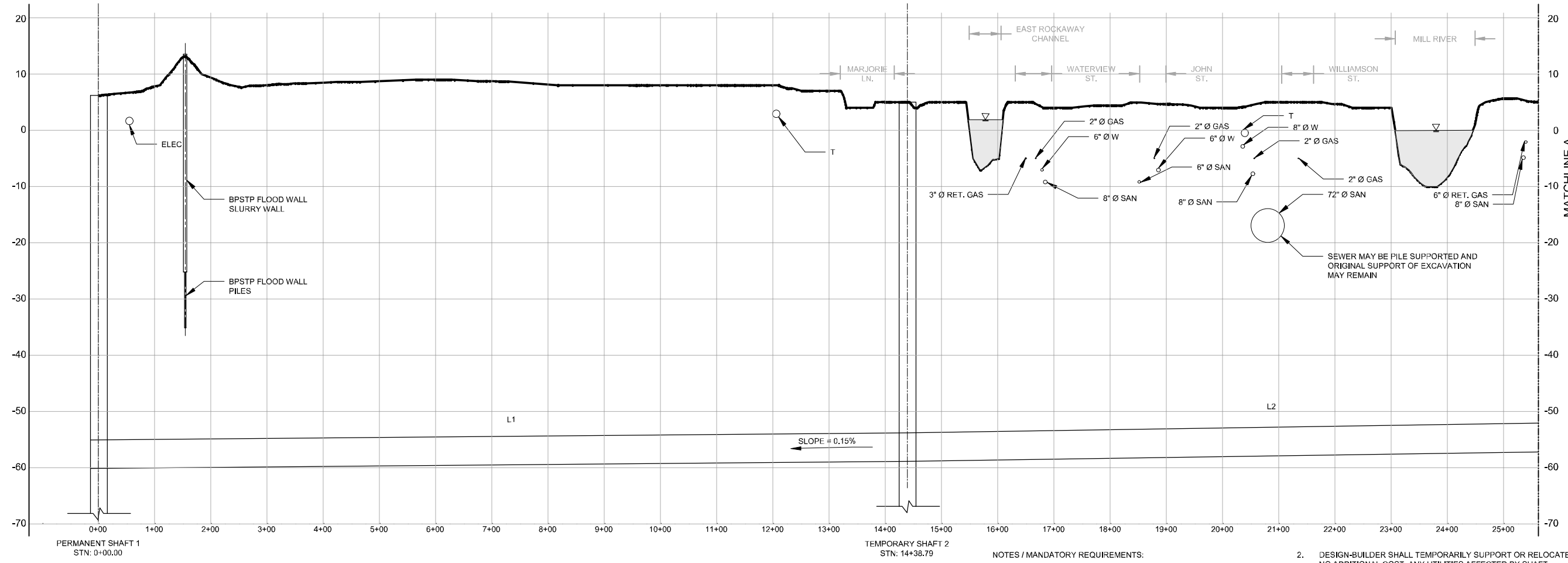




EXISTING MONITORING WELL LOCATION TO BE DETERMINED BY DESIGN-BUILDER. ALIGNMENT AND SHAFT LOCATIONS TO BE ADJUSTED ACCORDINGLY.

### BAY PARK FORCE MAIN PLAN

1" = 100'-0"



### BAY PARK FORCE MAIN PROFILE

HORZ. 1" = 100'  
VERT. 1" = 10'

- NOTES / MANDATORY REQUIREMENTS:
1. THE INFORMATION ON THIS PLAN IS PRESENTED ON CURRENTLY AVAILABLE SURVEY MAPPING. HORIZONTAL UTILITY LOCATION IS BASED ON QUALITY LEVEL C MAPPING. DEPTH OF UTILITIES SHOWN IS BASED ON TYPICAL DEPTHS. ACTUAL DEPTHS SHALL BE DETERMINED BY DESIGN-BUILDER.
  2. DESIGN-BUILDER SHALL TEMPORARILY SUPPORT OR RELOCATE AT NO ADDITIONAL COST, ANY UTILITIES AFFECTED BY SHAFT CONSTRUCTION OR CONNECTION TO SUNRISE HIGHWAY AQUEDUCT.

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

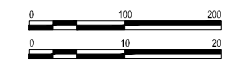
NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	BP-C202_C205		
DESIGNED BY:	X. ZONG		
DRAWN BY:	R. CAESAR		
CHECKED BY:	R. JAIN		

NASSAU COUNTY, NEW YORK  
**DEPARTMENT OF PUBLIC WORKS**  
  
OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE  
**BAY PARK FORCE MAIN**  
  
ALIGNMENT  
PLAN AND PROFILE 1

SCALE: AS SHOWN

**BP-C202**  
PAGE 98



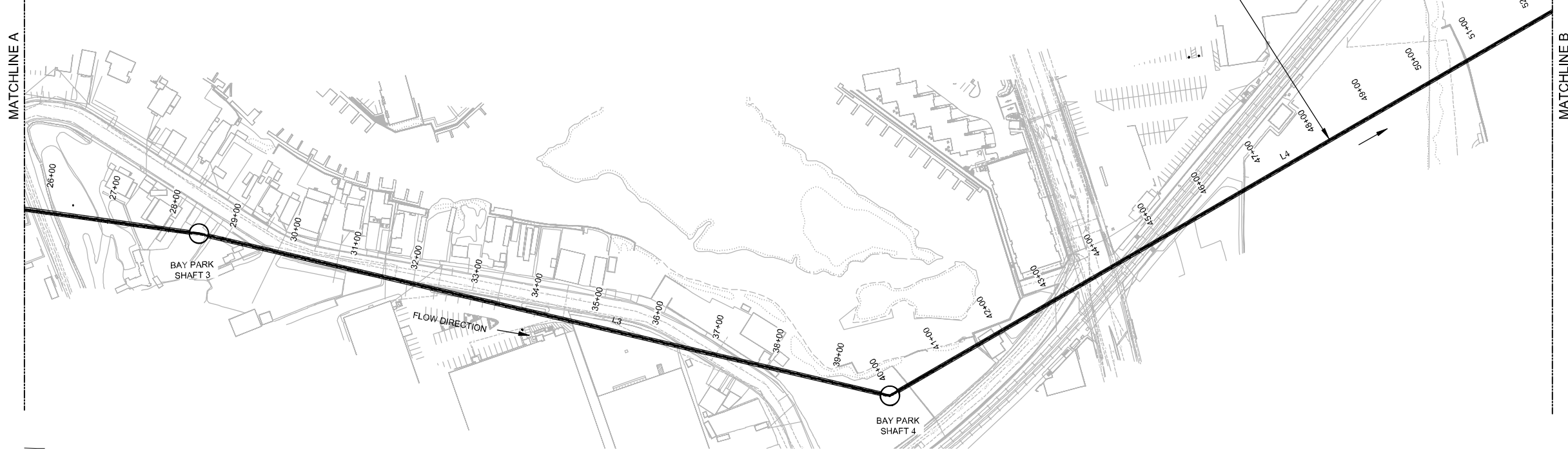
User: USRC647708; Sheet: AUS-KCSM001; File: C:\BMS\WSP-PB-US-PK-02\WSP\_PANOR\C\ES\HARD\681898\BP-C202\_C205.DWG; Scale: 1:3176; Saved Date: 4/16/2020; Time: 22:08; Pk Date: Caesar; Rev: 4/17/2020; 12.51; Layout: BP-C202



DESIGN-BUILDER TO REVIEW REFERENCE DRAWINGS FOR PILE-SUPPORTED WOODCREST VILLAGE PARK DEVELOPMENT

MATCHLINE A

MATCHLINE B



### BAY PARK FORCE MAIN PLAN

1" = 100'-0"

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 04/2020

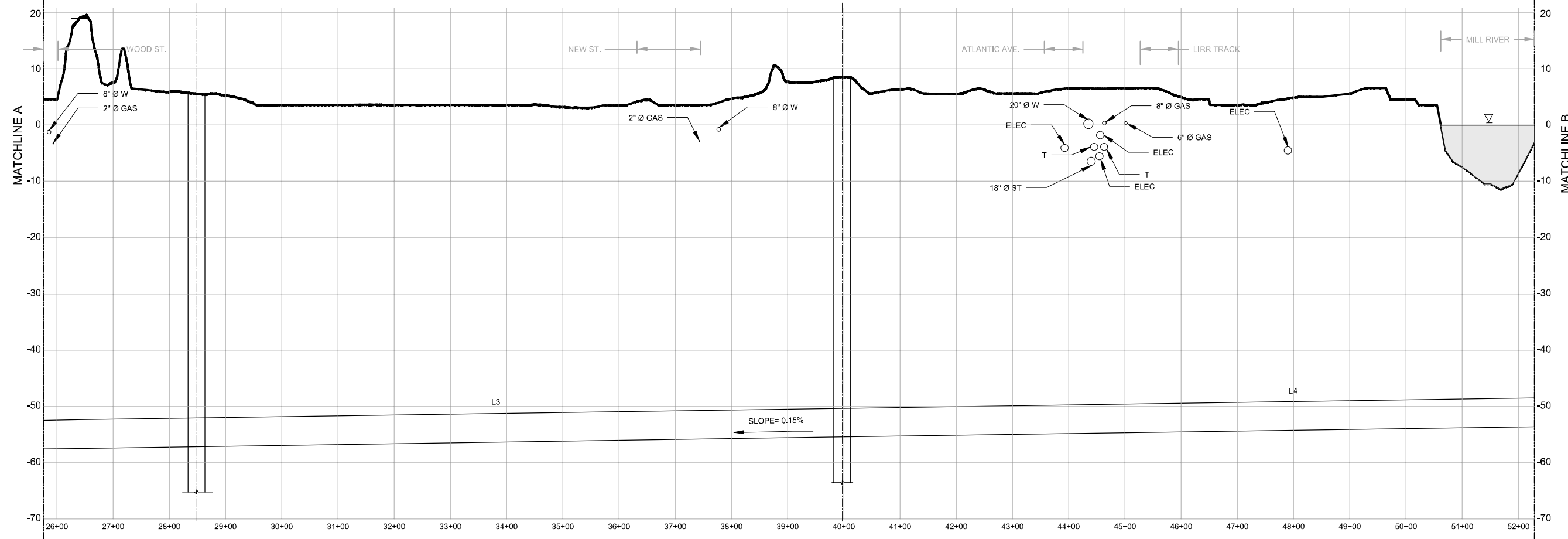
THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	BP-C202_C205		
DESIGNED BY:	X. ZONG		
DRAWN BY:	R. CAESAR		
CHECKED BY:	R. JAIN		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS  
  
OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

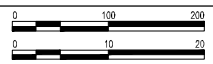
SHEET TITLE  
**BAY PARK FORCE MAIN  
ALIGNMENT  
PLAN AND PROFILE 2**

SCALE: AS SHOWN  
  
**BP-C203**  
  
PAGE 99



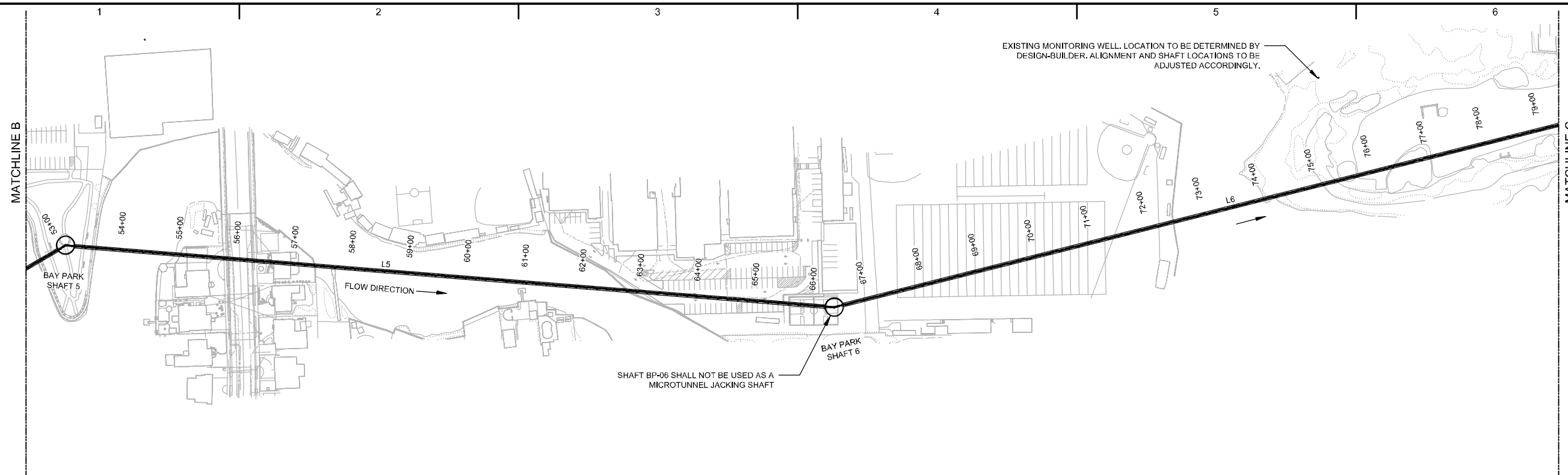
### BAY PARK FORCE MAIN PROFILE

HORIZ. 1" = 100'  
VERT. 1" = 10'



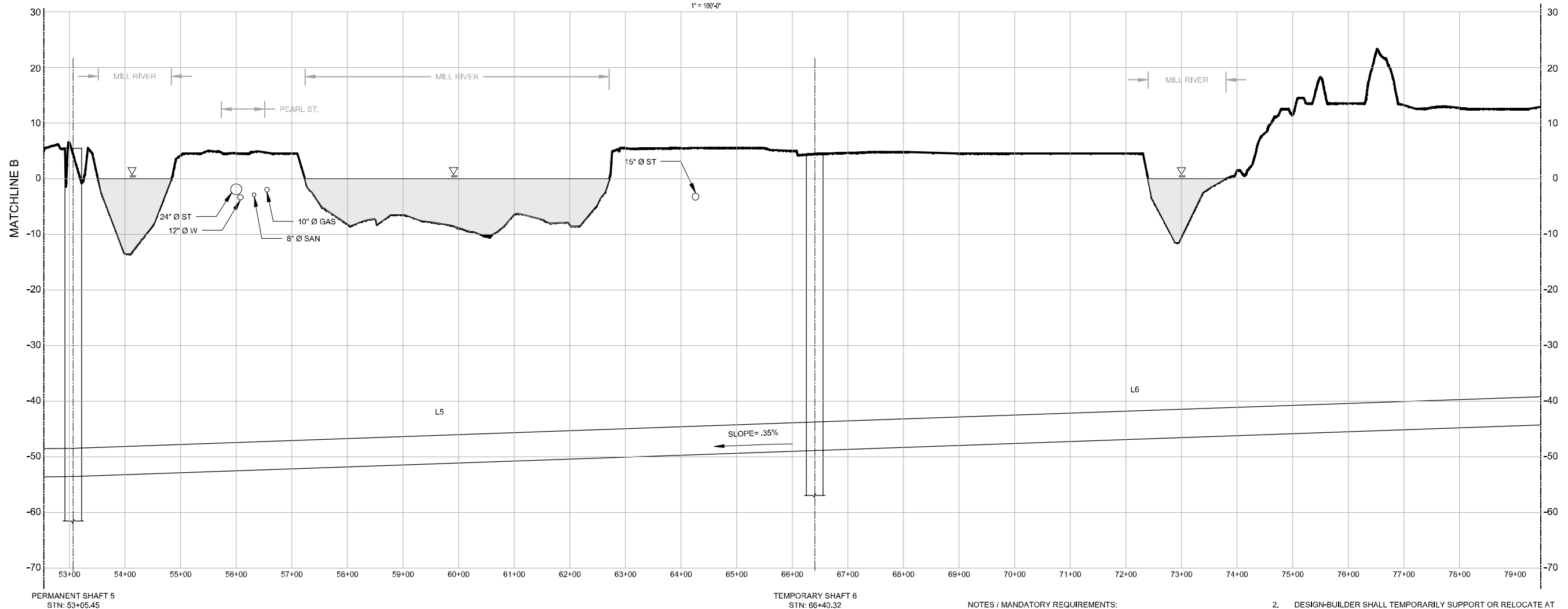
- NOTES / MANDATORY REQUIREMENTS:
- THE INFORMATION ON THIS PLAN IS PRESENTED ON CURRENTLY AVAILABLE SURVEY MAPPING. HORIZONTAL UTILITY LOCATION IS BASED ON QUALITY LEVEL C MAPPING. DEPTH OF UTILITIES SHOWN IS BASED ON TYPICAL DEPTHS. ACTUAL DEPTHS SHALL BE DETERMINED BY DESIGN-BUILDER.
  - DESIGN-BUILDER SHALL TEMPORARILY SUPPORT OR RELOCATE AT NO ADDITIONAL COST, ANY UTILITIES AFFECTED BY SHAFT CONSTRUCTION OR CONNECTION TO SUNRISE HIGHWAY AQUEDUCT.

User: USRC67708 Sme: AUSA-KS: NCS: MOD: File: C:\BMS\WSP-PB-US-PA-02\WSP\_PAOB\C\ESCHAR\MSR\189818\BP-C202\_C205.DWG Scale: 1:3176 Saved Date: 4/16/2020 Time: 22:08 Pk: Date: Caesar, Reth: 4/17/2020 12:32 Layout: BP-C203



**BAY PARK FORCE MAIN PLAN**

1" = 100'-0"



**BAY PARK FORCE MAIN PROFILE**



NOTES / MANDATORY REQUIREMENTS:

1. THE INFORMATION ON THIS PLAN IS PRESENTED ON CURRENTLY AVAILABLE SURVEY MAPPING. HORIZONTAL UTILITY LOCATION IS BASED ON QUALITY LEVEL C MAPPING. DEPTH OF UTILITIES SHOWN IS BASED ON TYPICAL DEPTHS. ACTUAL DEPTHS SHALL BE DETERMINED BY DESIGN-BUILDER.
2. DESIGN-BUILDER SHALL TEMPORARILY SUPPORT OR RELOCATE AT NO ADDITIONAL COST, ANY UTILITIES AFFECTED BY SHAFT CONSTRUCTION OR CONNECTION TO SUNRISE HIGHWAY AQUEDUCT.

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	BP-C202_C205		
DESIGNED BY:	X. ZONG		
DRAWN BY:	R. CAESAR		
CHECKED BY:	R. JAIN		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE  
BAY PARK FORCE MAIN  
ALIGNMENT  
PLAN AND PROFILE 3

SCALE: AS SHOWN

BP-C204

PAGE 100

User: USRC67708 Sme: AUS-KCSMOD File: C:\BMS\WSP-PB-US-PK-02\WSP\_PANOR\C\ESCHAR\DWG\BP-C202\_C205.DWG Scale: 1:316 SavedDate: 4/16/2020 Time: 22:08 Pk: Dmr: Caesar: Rdb: 4/17/2020 12:55 Layout: BP-C204

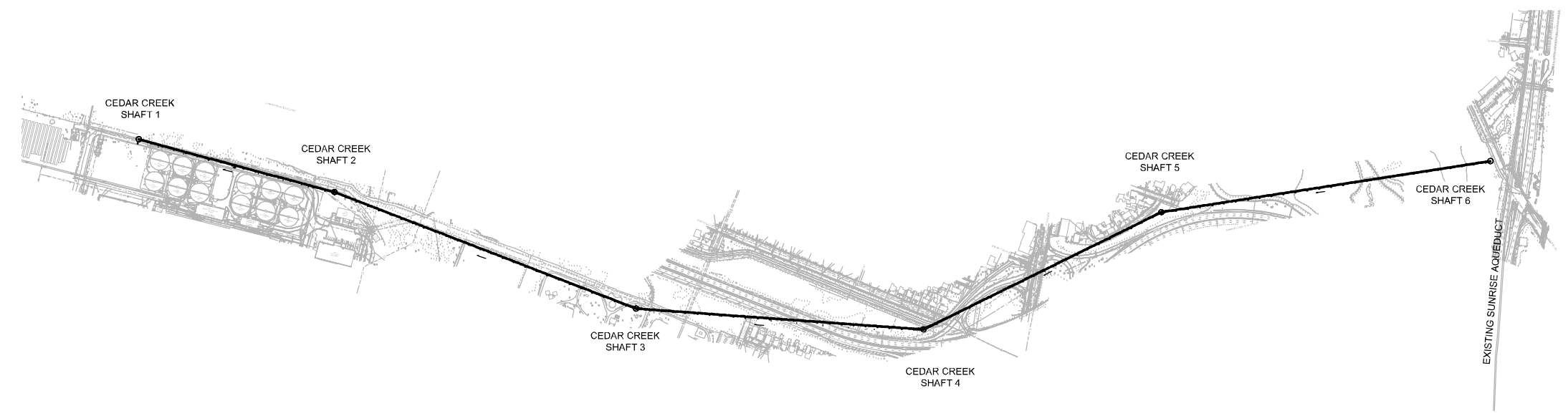




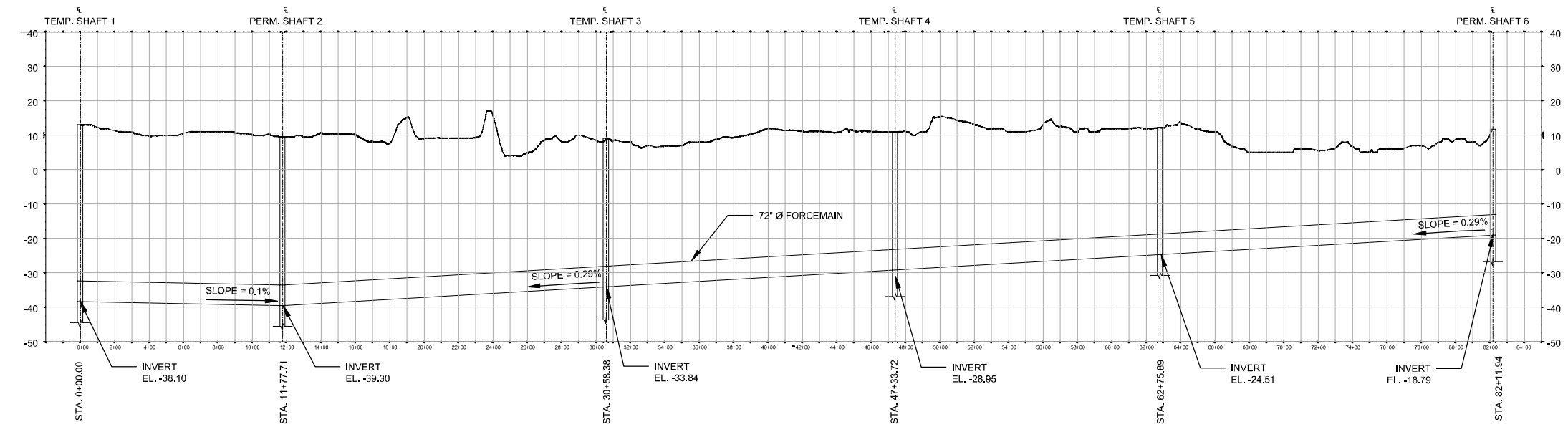




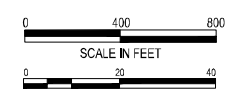
- NOTES / MANDATORY REQUIREMENTS:
1. THE INFORMATION ON THIS PLAN IS PRESENTED ON CURRENTLY AVAILABLE SURVEY MAPPING.
  2. DESIGN-BUILDER SHALL TEMPORARILY SUPPORT OR RELOCATE AT NO ADDITIONAL COST, ANY UTILITIES AFFECTED BY SHAFT CONSTRUCTION OR CONNECTION TO SUNRISE HIGHWAY AQUEDUCT.
  3. THE MICROTUNNEL PROFILE IS INDICATIVE. DESIGN-BUILDER SHALL BE RESPONSIBLE FOR DESIGNING THE PROFILE, ACCOUNTING FOR ALL FACTORS INCLUDING GROUND CONDITIONS, DEPTH OF POTENTIAL OBSTRUCTIONS, SETTLEMENT AND BUOYANCY. IN NO CASE SHALL CROWN OF TUNNEL BE LESS THAN 15 FT. BELOW EXISTING GROUND LEVEL OR MUD LINE. FORCE MAIN SHALL SLOPE DOWN CONTINUOUSLY FROM SUNRISE HIGHWAY TO A PERMANENT SHAFT LOCATED WITHIN THE CCWPCP PROPERTY BOUNDARY. LOW POINT MAY BE RELOCATED TO SHAFT 1 IF PREFERRED, IF PERMANENT ACCESS IS PROVIDED.
  4. THE MICROTUNNEL HORIZONTAL ALIGNMENTS AND SHAFT LOCATIONS SHOWN ARE MANDATORY REQUIREMENTS. MINOR ADJUSTMENTS ARE ALLOWED, AS DESCRIBED IN THE DESIGN CRITERIA REPORT. ALTERNATIVES SHALL BE SUBJECT TO ALTERNATIVE TECHNICAL CONCEPT (ATC) PROCEDURES. DESIGN BUILDER PROPOSING AN ATC SHALL BE RESPONSIBLE FOR ENVIRONMENTAL REVIEW, PERMITTING, LAND ACQUISITION, EASEMENTS AND RIGHT-OF-WAY BEYOND THOSE PREVIOUSLY OBTAINED BY NASSAU COUNTY.
  5. FOR RESTRICTIONS ON WHICH MICROTUNNELS CAN BE CONSTRUCTED FIRST, AND WHERE 24 / 7 MINING IS REQUIRED, SEE DESIGN CRITERIA REPORT.
  6. FOR ADDITIONAL REQUIREMENTS, SEE SPECIFICATION 02739-MICROTUNNELING.



**CEDAR CREEK FORCE MAIN PLAN**  
1" = 400'-0"



**CEDAR CREEK FORCE MAIN PROFILE**  
HORZ. 1" = 400'  
VERT. 1" = 20'



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	CC-C201		
DESIGNED BY:	X. ZONG		
DRAWN BY:	R. CAESAR		
CHECKED BY:	R. JAIN		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS  
OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE  
**CEDAR CREEK FORCE MAIN  
ALIGNMENT  
PLAN AND PROFILE**

SCALE: AS SHOWN  
**CC-C201**  
PAGE 103

User: USRPC67708 Sheet: A\US-NCS\MDD\Fig\CC\BMS\WSP-PB-US-PK-02\WSP\_PANOR\CC\ES\HARD\MSR\189\CC-C201.DWG Scale: 1.0 SavedDate: 4/16/2020 Time: 13:33 Plot Date: 04/16/2020 13:33 Plot Date: 04/16/2020 13:33 Layout: CC-C201





PLAN NORTH

MATCHLINE A

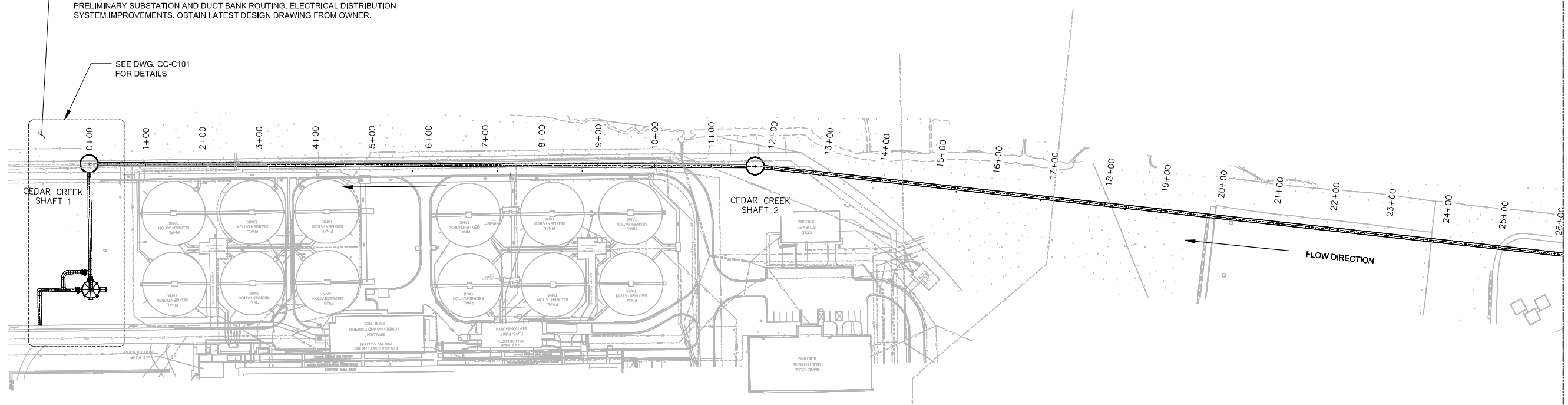
MATCHLINE A

MATCHLINE A

MATCHLINE A

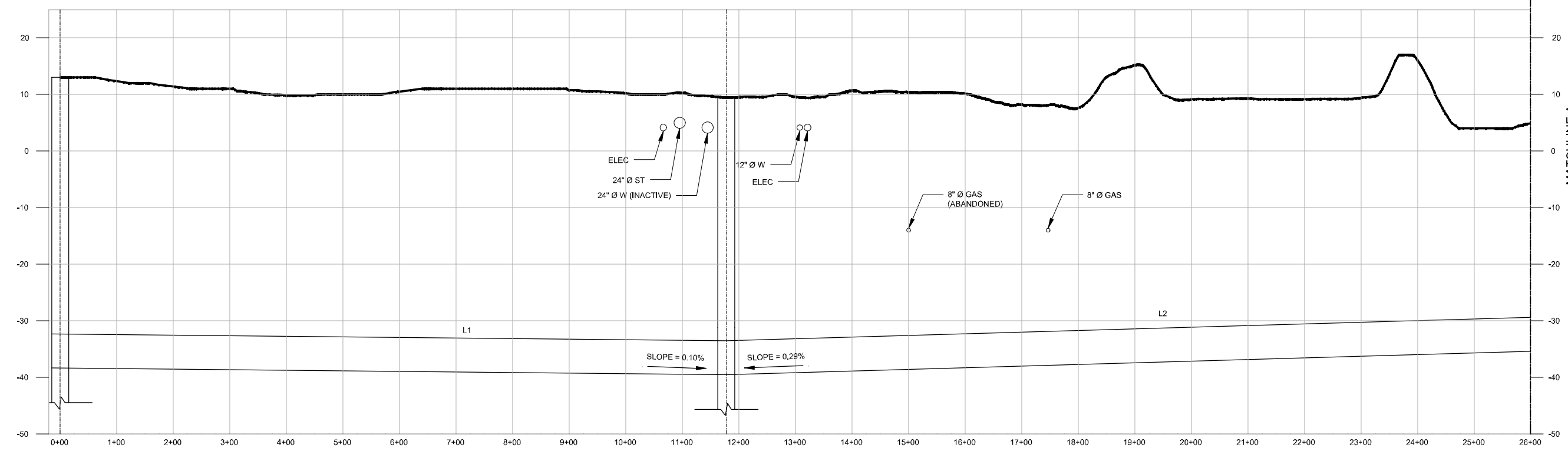
FOR INFORMATION ON ADJACENT CONSTRUCTION PROJECT SEE DWG SKC-001, PRELIMINARY SUBSTATION AND DUCT BANK ROUTING, ELECTRICAL DISTRIBUTION SYSTEM IMPROVEMENTS. OBTAIN LATEST DESIGN DRAWING FROM OWNER.

SEE DWG. CC-C101 FOR DETAILS



### CEDAR CREEK FORCE MAIN PLAN

1" = 100'-0"



### CEDAR CREEK FORCE MAIN PROFILE

HORZ. 1" = 100'  
VERT. 1" = 10'

#### NOTES:

1. THE INFORMATION ON THIS PLAN IS PRESENTED ON CURRENTLY AVAILABLE SURVEY MAPPING. HORIZONTAL UTILITY LOCATION IS BASED ON QUALITY LEVEL C MAPPING, DEPTH OF UTILITIES SHOWN IS BASED ON TYPICAL DEPTHS. ACTUAL DEPTHS SHALL BE DETERMINED BY DESIGN-BUILDER.
2. DESIGN-BUILDER SHALL TEMPORARILY SUPPORT OR RELOCATE AT NO ADDITIONAL COST, ANY UTILITIES AFFECTED BY SHAFT CONSTRUCTION OR CONNECTION TO SUNRISE HIGHWAY AQUEDUCT.

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

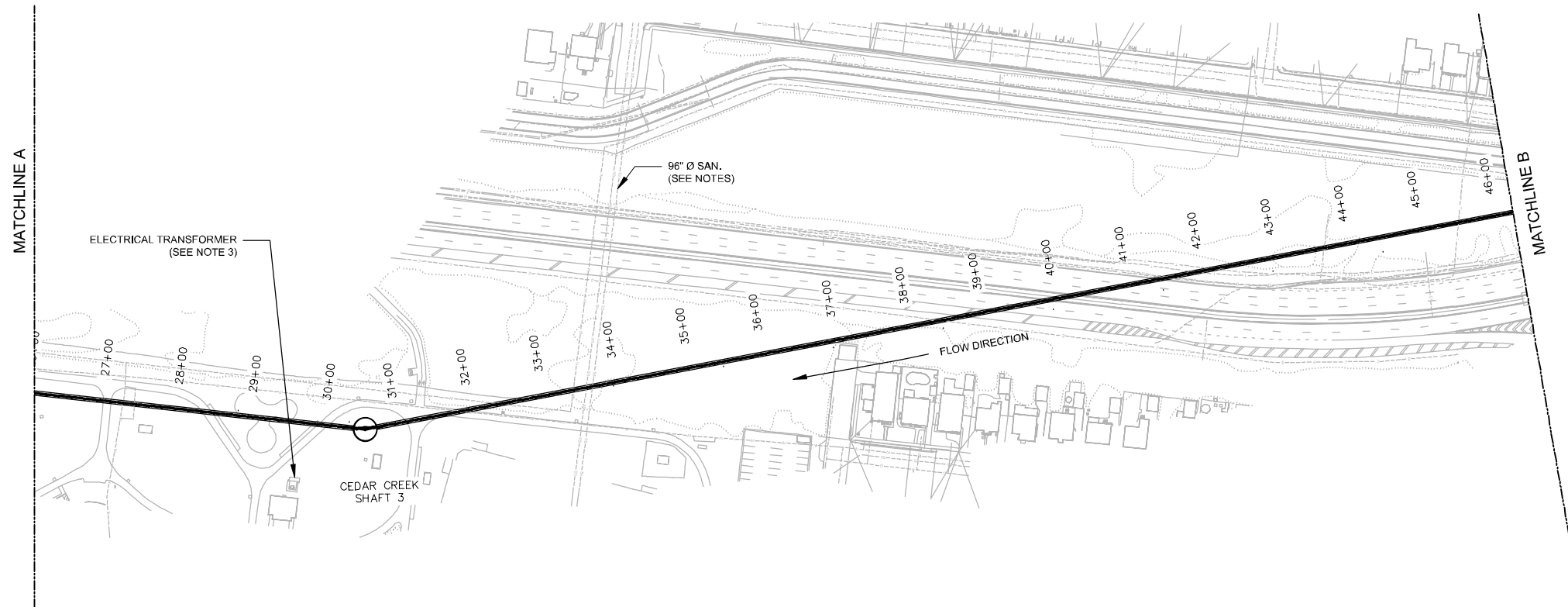
NO.	DATE	ISSUED FOR	BY
FINAL DESIGN CRITERIA PACKAGE			
DATE:	JANUARY 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	CC-C202_C205		
DESIGNED BY:	X. ZONG		
DRAWN BY:	R. CAESAR		
CHECKED BY:	R. JAIN		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS  
  
OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE  
CEDAR CREEK FORCE MAIN  
  
ALIGNMENT  
PLAN AND PROFILE 1

SCALE: AS SHOWN  
  
CC-C202  
  
PAGE 104

User: USRC07708 Spec: AUSA\GIS\MOD File: C:\BIBUS\WSP-PA\US-PA\WSP\_PA\JOB: CAESAR\DWG\19100-CC-C202\_C205.DWG Scale: 1:316 Saved: Date: 3/20/2020 Time: 09:24 Pld Date: Caesar, Regis: 3/20/2020: 15 10: Layout: CC-C202



**CEDAR CREEK FORCE MAIN PLAN**

1" = 100'-0"

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 04/2020

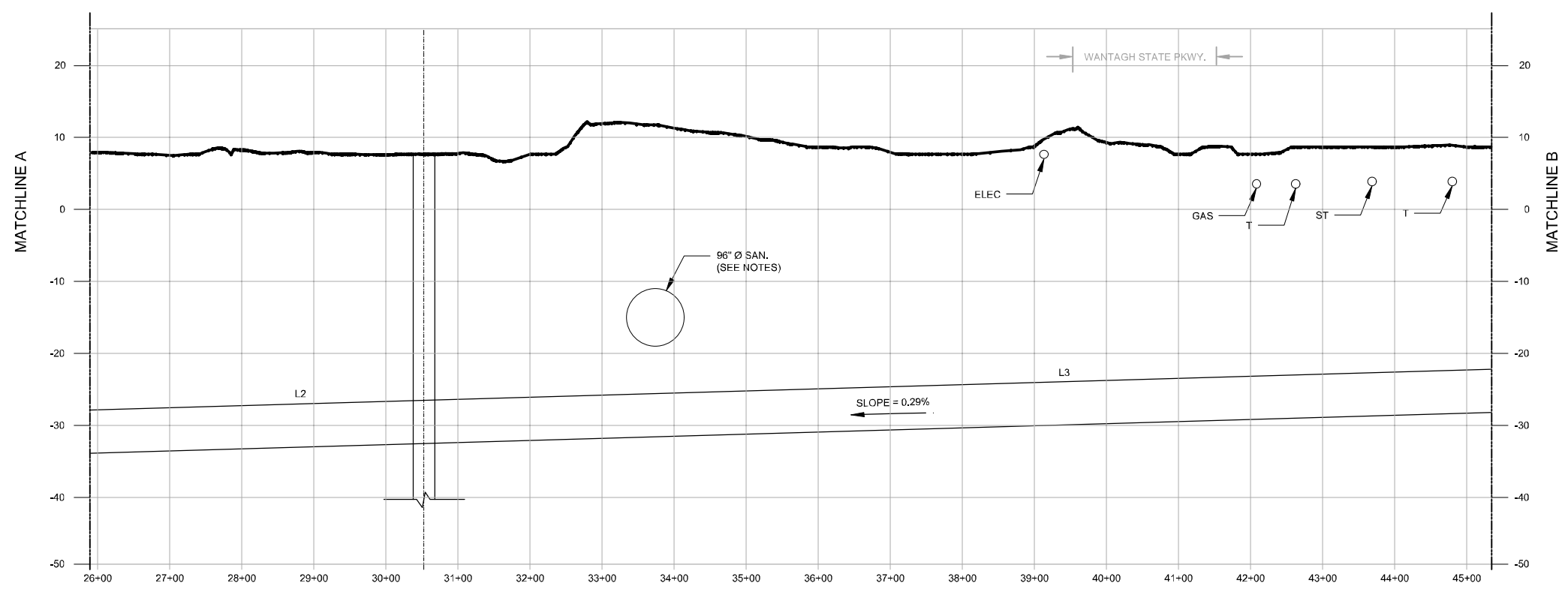
THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	CC-C202_C205		
DESIGNED BY:	X. ZONG		
DRAWN BY:	R. CAESAR		
CHECKED BY:	R. JAIN		

NASSAU COUNTY, NEW YORK  
**DEPARTMENT OF PUBLIC WORKS**  
  
OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

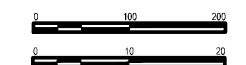
**NOTES/ MANDATORY REQUIREMENTS:**

- THE INFORMATION ON THIS PLAN IS PRESENTED ON CURRENTLY AVAILABLE SURVEY MAPPING. HORIZONTAL UTILITY LOCATION IS BASED ON QUALITY LEVEL C MAPPING. DEPTH OF UTILITIES SHOWN IS BASED ON TYPICAL DEPTHS. ACTUAL DEPTHS SHALL BE DETERMINED BY DESIGN-BUILDER.
- DESIGN-BUILDER SHALL TEMPORARILY SUPPORT OR RELOCATE AT NO ADDITIONAL COST, ANY UTILITIES AFFECTED BY SHAFT CONSTRUCTION OR CONNECTION TO SUNRISE HIGHWAY AQUEDUCT.
- UTILITIES SERVING TRANSFORMER ARE UNKNOWN. DESIGN-BUILDER TO HAND EXCAVATE TOP 6 FEET WHERE REQUIRED TO DETERMINE IF ANY UTILITIES ARE PRESENT.
- A GROUND PENETRATING RADAR SURVEY AND TEST PITS PERFORMED AT THE LOCATION OF THE 96" SANITARY SEWER DID NOT FIND STEEL SHEETING, WHICH MAY HAVE BEEN INSTALLED DURING CONSTRUCTION.



**CEDAR CREEK FORCE MAIN PROFILE**

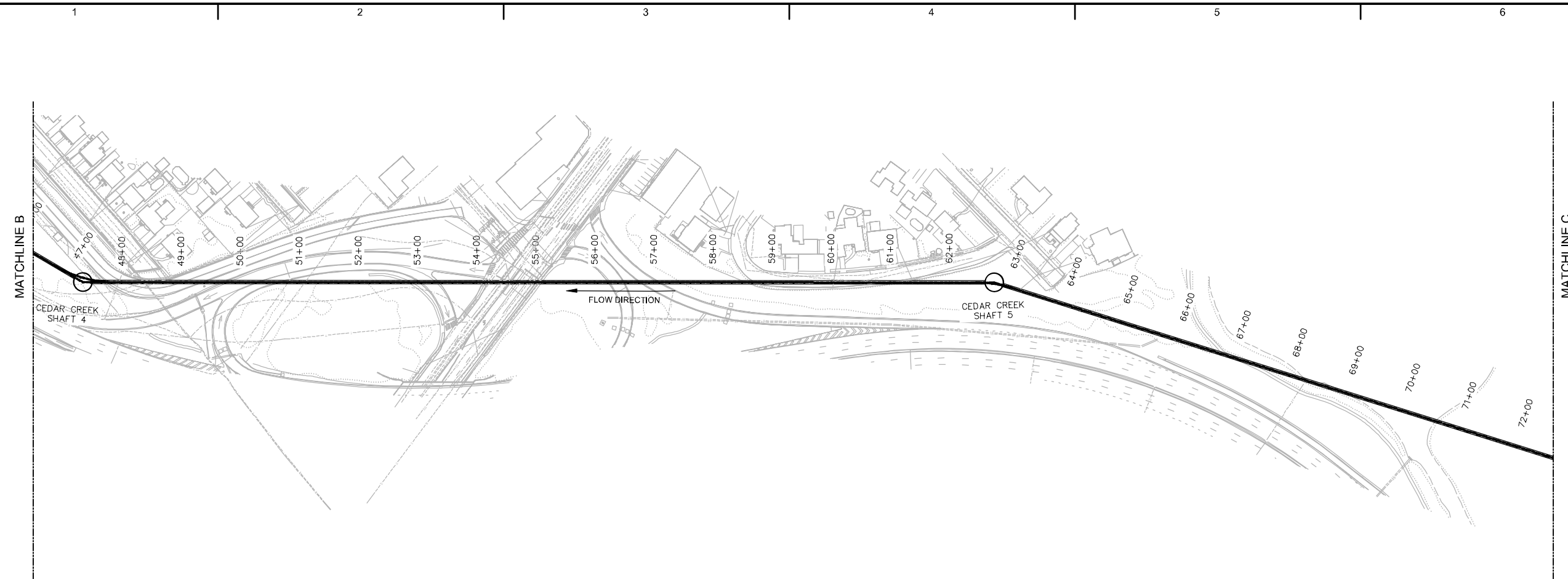
HORZ. 1" = 100'  
VERT. 1" = 10'



SHEET TITLE  
**CEDAR CREEK FORCE MAIN  
ALIGNMENT  
PLAN AND PROFILE 2**

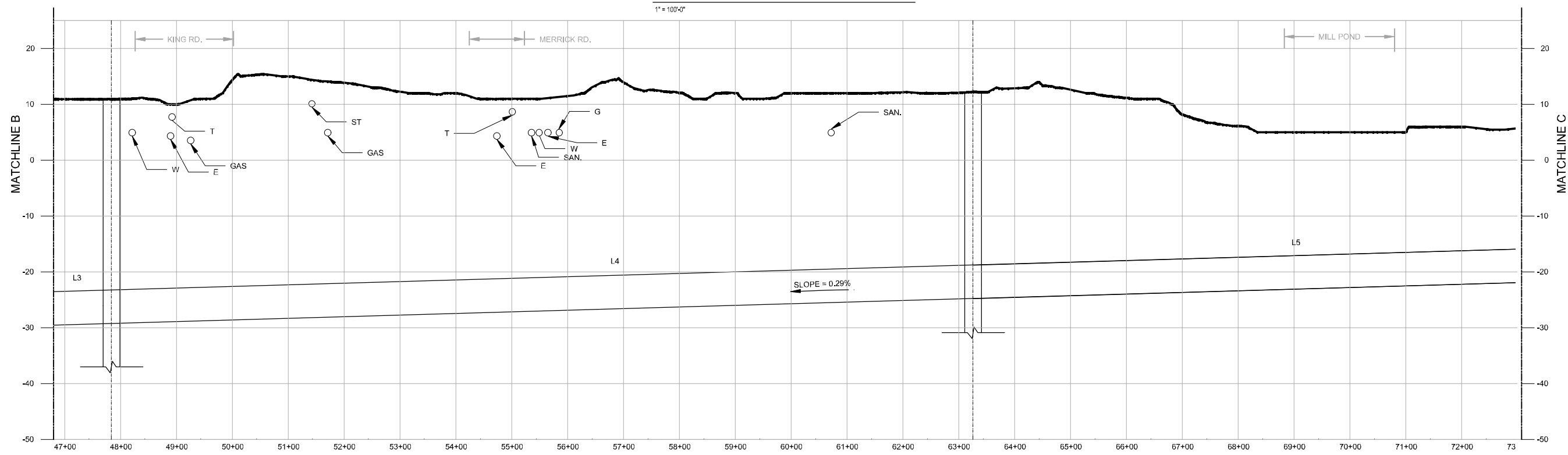
SCALE: AS SHOWN

User: USRPC647708; Sheet: ALU-NC58100D; File: C:\BMS\WSP-PB-US-PA-02\WSP\_PANOBE\CEDAR\DWG\189CC-C202\_C205.DWG; Scale: 1:316; SavedDate: 4/16/2020; Time: 22:10; Plot Date: Current; Replot: 4/17/2020; 13.10; Layout: CC-C203



**CEDAR CREEK FORCE MAIN PLAN**

1" = 100'-0"



**CEDAR CREEK FORCE MAIN PROFILE**

HORZ. 1" = 100'  
VERT. 1" = 10'

**NOTES/ MANDATORY REQUIREMENTS:**

1. THE INFORMATION ON THIS PLAN IS PRESENTED ON CURRENTLY AVAILABLE SURVEY MAPPING. HORIZONTAL UTILITY LOCATION IS BASED ON QUALITY LEVEL C MAPPING. DEPTH OF UTILITIES SHOWN IS BASED ON TYPICAL DEPTHS. ACTUAL DEPTHS SHALL BE DETERMINED BY DESIGN-BUILDER.
2. DESIGN-BUILDER SHALL TEMPORARILY SUPPORT OR RELOCATE AT NO ADDITIONAL COST, ANY UTILITIES AFFECTED BY SHAFT CONSTRUCTION OR CONNECTION TO SUNRISE HIGHWAY AQUEDUCT.

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

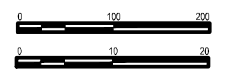
NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	CC-C202_C205		
DESIGNED BY:	X. ZONG		
DRAWN BY:	R. CAESAR		
CHECKED BY:	R. JAIN		

NASSAU COUNTY, NEW YORK  
**DEPARTMENT OF PUBLIC WORKS**  
  
OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE  
**CEDAR CREEK FORCE MAIN**  
  
**ALIGNMENT  
PLAN AND PROFILE 3**

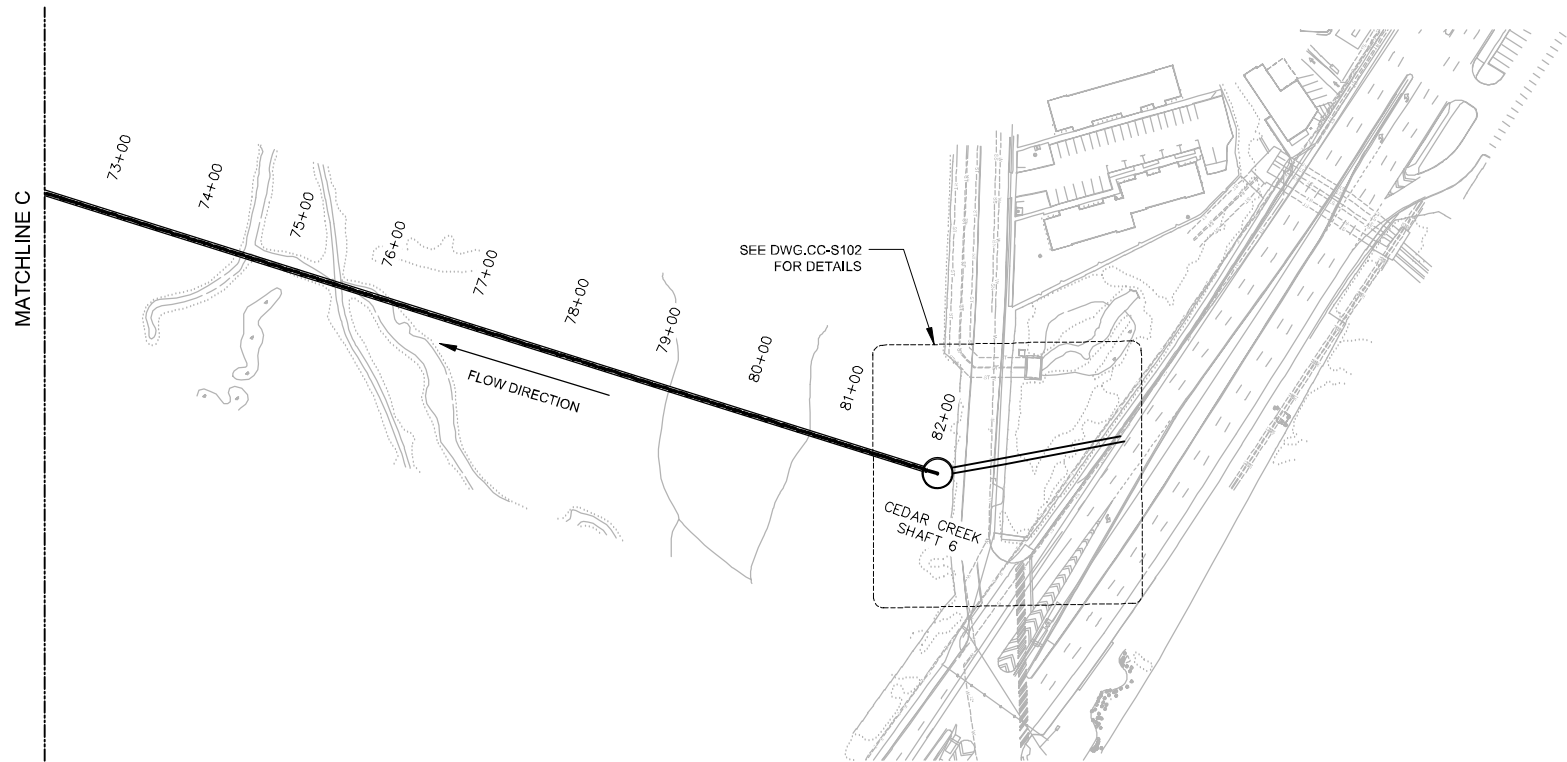
SCALE: AS SHOWN

**CC-C204**  
**PAGE 106**



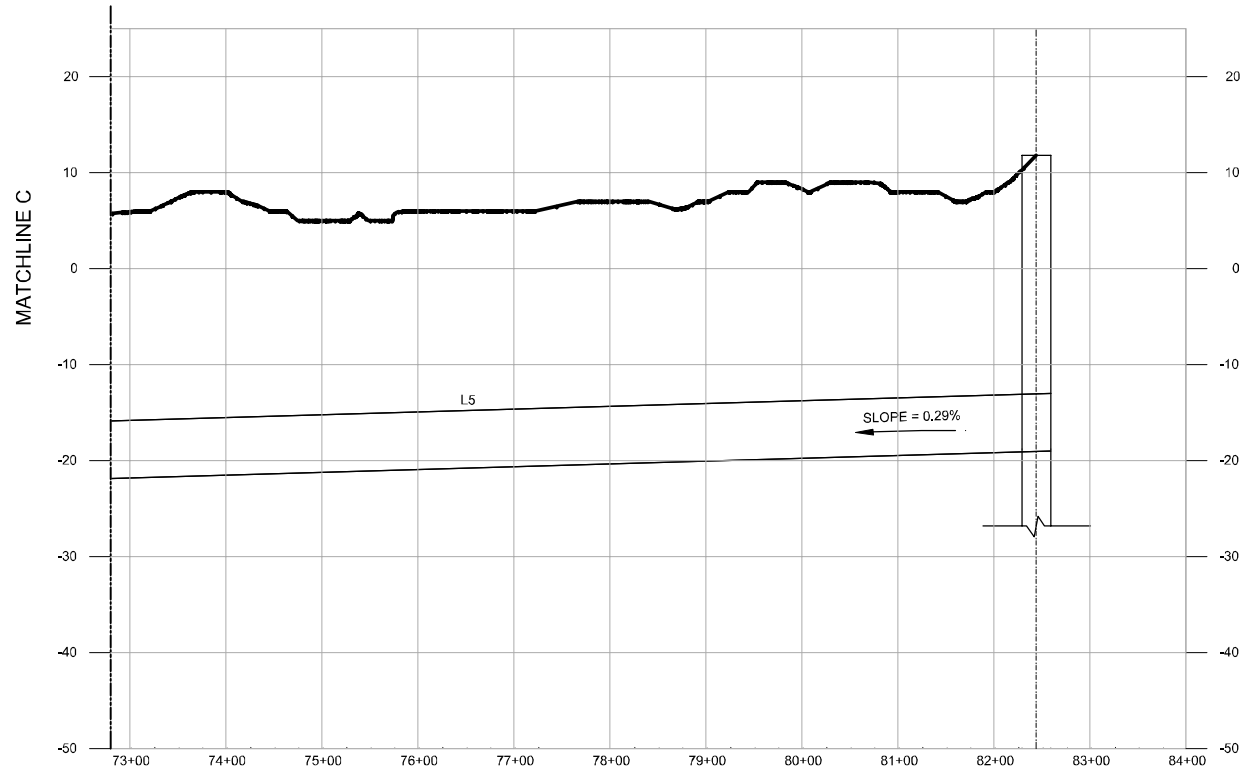
User: USRC67708 Spic: AUS\CSHMOD File: C:\BIB\USRC67708\SPIC\199100-C202\_C205.DWG Scale: 1:316 SavedDate: 4/16/2020 Time: 22:10 Plot Date: 04/17/2020 13:11 Layout: CC-C204





**CEDAR CREEK FORCE MAIN PLAN**

1" = 100'-0"



**CEDAR CREEK FORCE MAIN PROFILE**

HORZ. 1" = 100'  
VERT. 1" = 10'

**NOTES/ MANDATORY REQUIREMENTS:**

1. THE INFORMATION ON THIS PLAN IS PRESENTED ON CURRENTLY AVAILABLE SURVEY MAPPING. HORIZONTAL UTILITY LOCATION IS BASED ON QUALITY LEVEL C MAPPING. DEPTH OF UTILITIES SHOWN IS BASED ON TYPICAL DEPTHS. ACTUAL DEPTHS SHALL BE DETERMINED BY DESIGN-BUILDER.
2. DESIGN-BUILDER SHALL TEMPORARILY SUPPORT OR RELOCATE AT NO ADDITIONAL COST, ANY UTILITIES AFFECTED BY SHAFT CONSTRUCTION OR CONNECTION TO SUNRISE HIGHWAY AQUEDUCT.

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	CC-C202_C205		
DESIGNED BY:	X. ZONG		
DRAWN BY:	R. CAESAR		
CHECKED BY:	R. JAIN		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

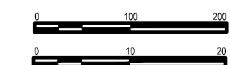
SHEET TITLE  
CEDAR CREEK FORCE MAIN

ALIGNMENT  
PLAN AND PROFILE 4

SCALE: AS SHOWN

CC-C205

PAGE 107



User: USRC67708 Spic: AUS-ICSI-MOD File: C:\BIBS\WSP-26-US-2020\WSP\_PAO\B.CAESAR\DWG\1691CC-C202\_C205.DWG Scale: 1:316 SavedDate: 4/16/2020 Time: 22:10 Plot Date: 04/17/2020 RegId: 4172020 13 17 Layout: CC-C205



### CEDAR CREEK ALIGNMENT DATA TABLE

NUMBER	LENGTH (FT.)	LINE/CHORD BEARING	STATION		COORDINATE START STATION		REFERENCE DRAWINGS
			START	END	NORTHING	EASTING	
L1	1177.74	N 08° 21' 05" W	0+00.00	11+77.74	176490.16	1120705.38	CC-C202
L2	1880.67	N 02° 16' 58" W	11+77.74	30+58.41	177655.41	1120534.31	CC-C202 CC-C203
L3	1675.44	N 19° 14' 42" W	30+58.41	47+33.85	179534.59	1120459.41	CC-C203 CC-C204
L4	1542.03	N 49° 40' 30" W	47+33.85	62+75.88	181116.40	1119907.17	CC-C204
L5	1936.00	N 32° 14' 44" W	62+75.88	82+11.88	182114.29	1118731.55	CC-C204 CC-C205
END	--	--	END	82+11.88	183751.70	1117698.60	

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE: APRIL 2020

PROJECT NO.: PW-S3B116-03CR

FILE NAME: CC-C206

DESIGNED BY: X. ZONG

DRAWN BY: R. CAESAR

CHECKED BY: R. JAIN

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

CEDAR CREEK FORCE MAIN

CEDAR CREEK  
ALIGNMENT GEOMETRY  
TABLE

SCALE: NOT TO SCALE

CC-C206

PAGE 108

User: MORALES, Space: US-NCSM001 File: C:\BIBS\BIBS-PB-US-PPV-02\WSP\_0505E\_MORALES\DWG\180\CC-C206.DWG Scale: 1:1 Saved: 04/22/2020 Time: 13:48 Plot Date: Monday, Jan 31/2020 14:39 Layout: LAYOUT1



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

FINAL DESIGN CRITERIA PACKAGE			
DATE:	PROJECT NO.:	FILE NAME:	DESIGNED BY:
APRIL 2020	PW-S3B116-03CR	GDR_BP-B101	D. BASWANGA
DRAWN BY:	CHECKED BY:		
J. JARRETT	R. VAKILI		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS  
  
OCEAN OUTFALL EFFLUENT DIVERSION PROJECT

SHEET TITLE

BAY PARK FORCE MAIN BORING LOCATION PLAN  
SHEET 1 OF 5

SCALE: AS SHOWN  
  
BP-B101  
PAGE 109



**BAY PARK FORCE MAIN PLAN**

LEGEND	ENGINEER, YEAR PERFORMED
BP-1 OW (BP PREFIX BORINGS) OW, OBSERVATION WELL	WSP, 2019
CPTU-16 (PIEZOCONE SOUNDINGS)	ARCADIS, 2013
CTA B-6 (CTA PREFIX BORING)	CONSOER, TOWNSEND & ASSOCIATES, 1976
B-6U (SINGLE DIGIT SERIES BORINGS) P, OBSERVATION WELL	MUESER RUTLEDGE CONSULTING ENGINEERS, 2013
B-6U (SINGLE DIGIT SERIES BORINGS) P, OBSERVATION WELL	MUESER RUTLEDGE CONSULTING ENGINEERS, 2013
SS3-1 (SS3 PREFIX BORINGS)	VACHRIS ENGINEERING, P.C., 2013
B-203 (200 SERIES BORINGS)	CHARLES F. VACHRIS, P.E., 1985
B-114 (100 SERIES BORINGS)	CHARLES F. VACHRIS, P.E., 1983

**NOTES:**

- THE LOCATION OF THE BORING PERFORMED FOR WSP FOR THE SUBSURFACE INVESTIGATION FOR THE OCEAN OUTFALL EFFLUENT DIVERSION PROJECT WAS DETERMINED BY GAYRON DE BRUIN LAND SURVEYING AND ENGINEERING, P.C., A SUBCONSULTANT TO WSP. THE BORING IS DESIGNATED WITH THE PREFIX "BP".
- THE LOCATIONS OF BORINGS PERFORMED FOR MUESER RUTLEDGE CONSULTING ENGINEERS, HEREAFTER MRCE, AND PIEZOCONE SOUNDINGS PERFORMED FOR ARCADIS, WERE OBTAINED FROM DRAWING NUMBER B-1, "BORING AND CPTU LOCATION PLAN," INCLUDED IN THE REPORT PREPARED BY MRCE ENTITLED, "GEOTECHNICAL DATA REPORT, BAY PARK SEWAGE TREATMENT PLANT, PERIMETER FLOOD PROTECTION," DATED JANUARY 8, 2014.
- THE LOCATIONS OF BORINGS PERFORMED FOR CHARLES F. VACHRIS P.E. AND VACHRIS ENGINEERING P.C. WERE OBTAINED FROM DRAWING NUMBER 13161-1, "BORING LOCATION PLAN," INCLUDED IN THE REPORT PREPARED BY VACHRIS ENGINEERING, P.C., ENTITLED, "GEOTECHNICAL INVESTIGATIONS AND RECOMMENDATIONS FOR PHASE E1 ELECTRICAL DISTRIBUTION IMPROVEMENTS, BAY PARK STP," DATED DECEMBER 11, 2013.
- LOGS OF THE BORINGS SHOWN ON THIS DRAWING ARE INCLUDED IN THE GEOTECHNICAL DATA REPORT.

User: AIBDA-SmechAUS-CSEMICD File: C:\BIBS\WSP-CR-CP-UP-M-02\WSP\_ALABID\01767979\GDR\_BP-B101.DWG Scale: 1:1 Sheet: 04/20/2020 Time: 02:10:00 Plot Date: 04/20/2020 09:50:11 Layout: GDR\_BP-B101





**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	GDR_BP-B102_B105		
DESIGNED BY:	D. BASWANGA		
DRAWN BY:	J. JARRETT		
CHECKED BY:	R. VAKILI		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

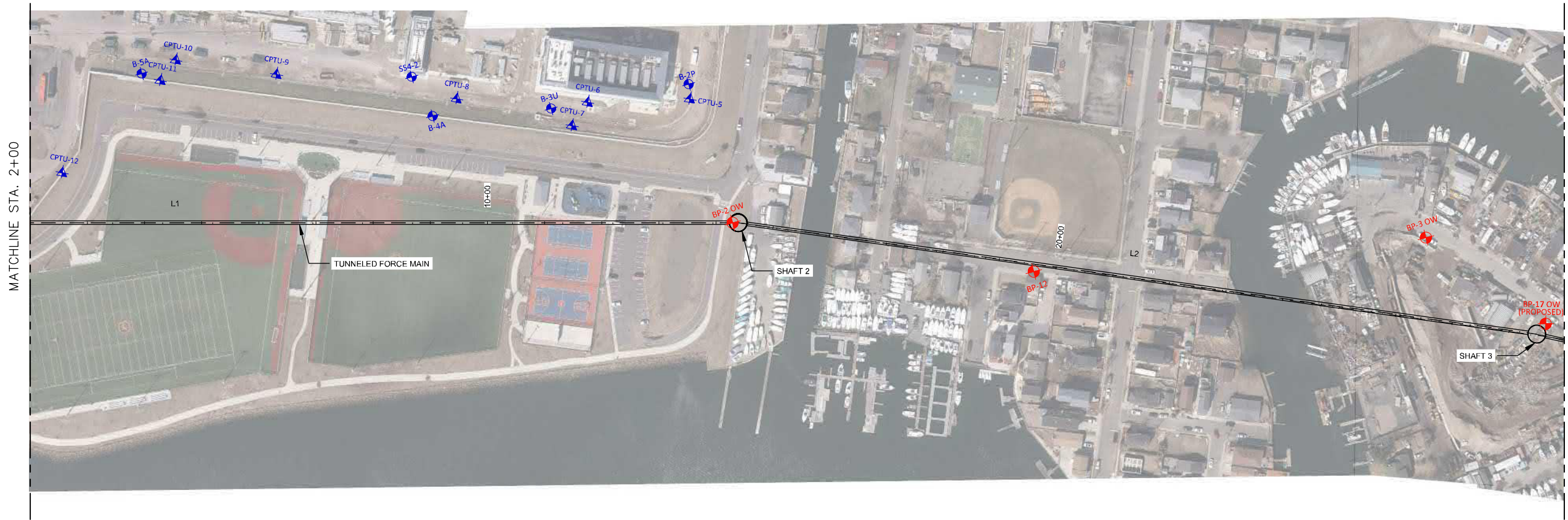
BAY PARK FORCE MAIN  
BORING LOCATION PLAN

SHEET 2 OF 5

SCALE: AS SHOWN

BP-B102

PAGE 110



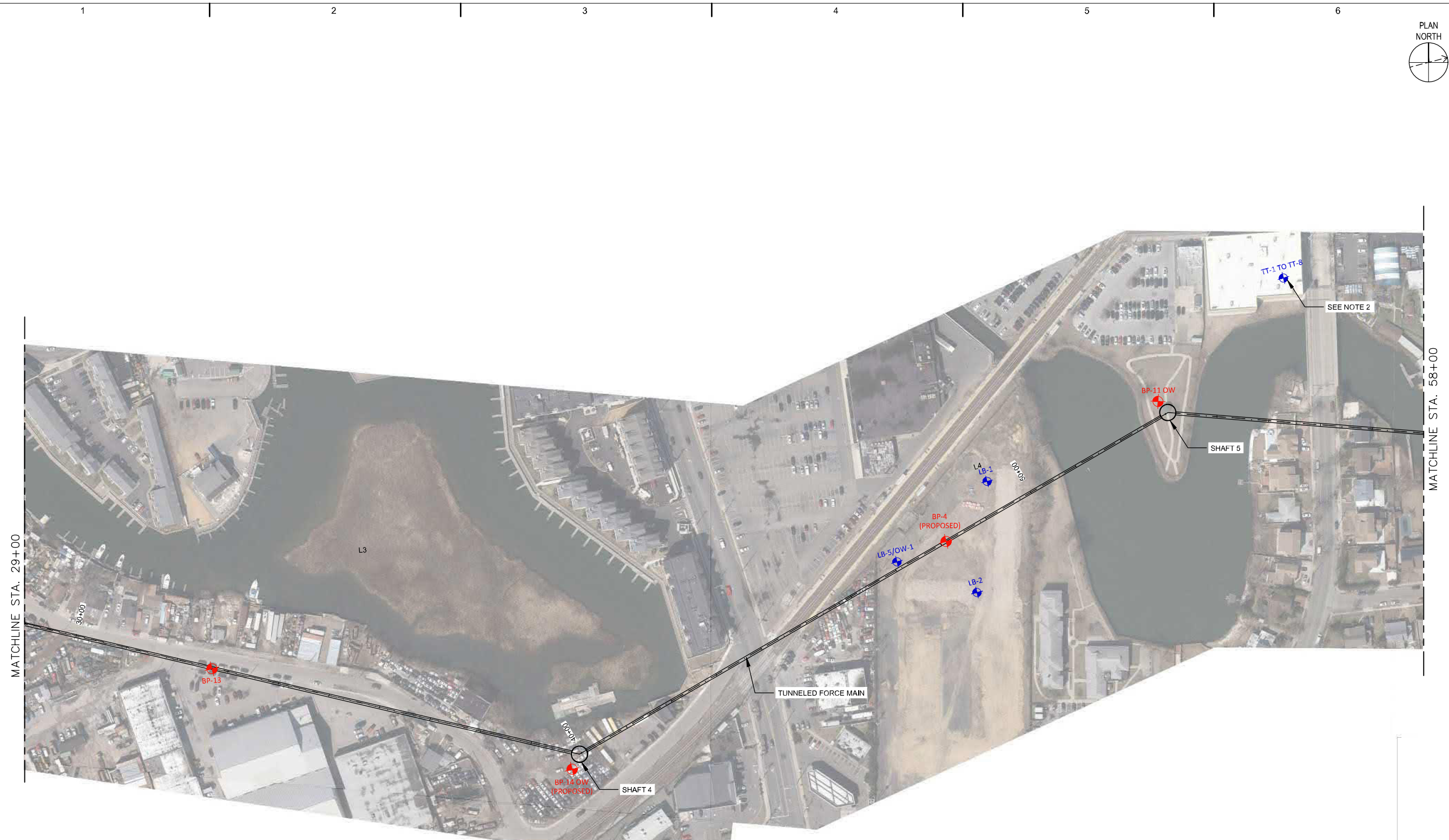
**BAY PARK FORCE MAIN PLAN**

- NOTES:**
1. THE LOCATIONS OF BORINGS PERFORMED FOR WSP FOR THE SUBSURFACE INVESTIGATION FOR THE OCEAN OUTFALL EFFLUENT DIVERSION PROJECT WERE DETERMINED AS FOLLOWS: BY SURVEY PERFORMED BY GAYRON DE BRUIN LAND SURVEYING AND ENGINEERING, P.C.; OR, BY TAPING AND LINE OF SIGHT MEASUREMENT OR GLOBAL POSITIONING SURVEY BY YU & ASSOCIATES; BOTH FIRMS ARE SUBCONSULTANTS TO WSP. THE BORINGS ARE DESIGNATED WITH THE PREFIX 'BP'.
  2. THE LOCATIONS OF BORINGS PERFORMED FOR MUESER RUTLEDGE CONSULTING ENGINEERS, HEREAFTER MRCE, AND PIEZOCONE SOUNDINGS PERFORMED FOR ARCADIS, WERE OBTAINED FROM DRAWING NUMBER B-1, "BORING AND CPTU LOCATION PLAN," INCLUDED IN THE REPORT PREPARED BY MRCE ENTITLED, "GEOTECHNICAL DATA REPORT, BAY PARK SEWAGE TREATMENT PLANT, PERIMETER FLOOD PROTECTION," DATED JANUARY 8, 2014.
  3. THE LOCATIONS OF BORINGS PERFORMED FOR CHARLES F. VACHRIS P.E. AND VACHRIS ENGINEERING P.C. WERE OBTAINED FROM DRAWING NUMBER 13161-1, "BORING LOCATION PLAN," INCLUDED IN THE REPORT PREPARED BY VACHRIS ENGINEERING, P.C., ENTITLED, "GEOTECHNICAL INVESTIGATIONS AND RECOMMENDATIONS FOR PHASE E1 ELECTRICAL DISTRIBUTION IMPROVEMENTS, BAY PARK STP," DATED DECEMBER 11, 2013.
  4. LOGS OF THE BORINGS SHOWN ON THIS DRAWING ARE INCLUDED IN THE GEOTECHNICAL DATA REPORT.

LEGEND	ENGINEER, YEAR PERFORMED
BP-2 OW (BP PREFIX BORINGS) OW, OBSERVATION WELL	WSP, 2019
CPTU-16 (PIEZOCONE SOUNDINGS)	ARCADIS, 2013
CTA B-6 (CTA PREFIX BORING)	CONSOER, TOWNSEND & ASSOCIATES, 1978
B-2P (SINGLE DIGIT SERIES BORINGS) P, OBSERVATION WELL	MUESER RUTLEDGE CONSULTING ENGINEERS, 2013
SS-4-2 (SS-4 PREFIX BORINGS)	VACHRIS ENGINEERING, P.C., 2013

User: ABIDA\_Spca\AUS\CS\GDR\_Files\B102\B102\_B105\DWG Scale: 1:1 SavedDate: 3/23/2020 Time: 2:00 Pk: Date: Abid\_Ali\_3/23/2020 08:51 Layer: GDR\_BP-B102





**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	GDR_BP-B102_B105		
DESIGNED BY:	D. BASWANGA		
DRAWN BY:	J. JARRETT		
CHECKED BY:	R. VAKILI		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

BAY PARK FORCE MAIN  
BORING LOCATION PLAN  
SHEET 3 OF 5

SCALE: AS SHOWN

**BP-B103**

PAGE 111

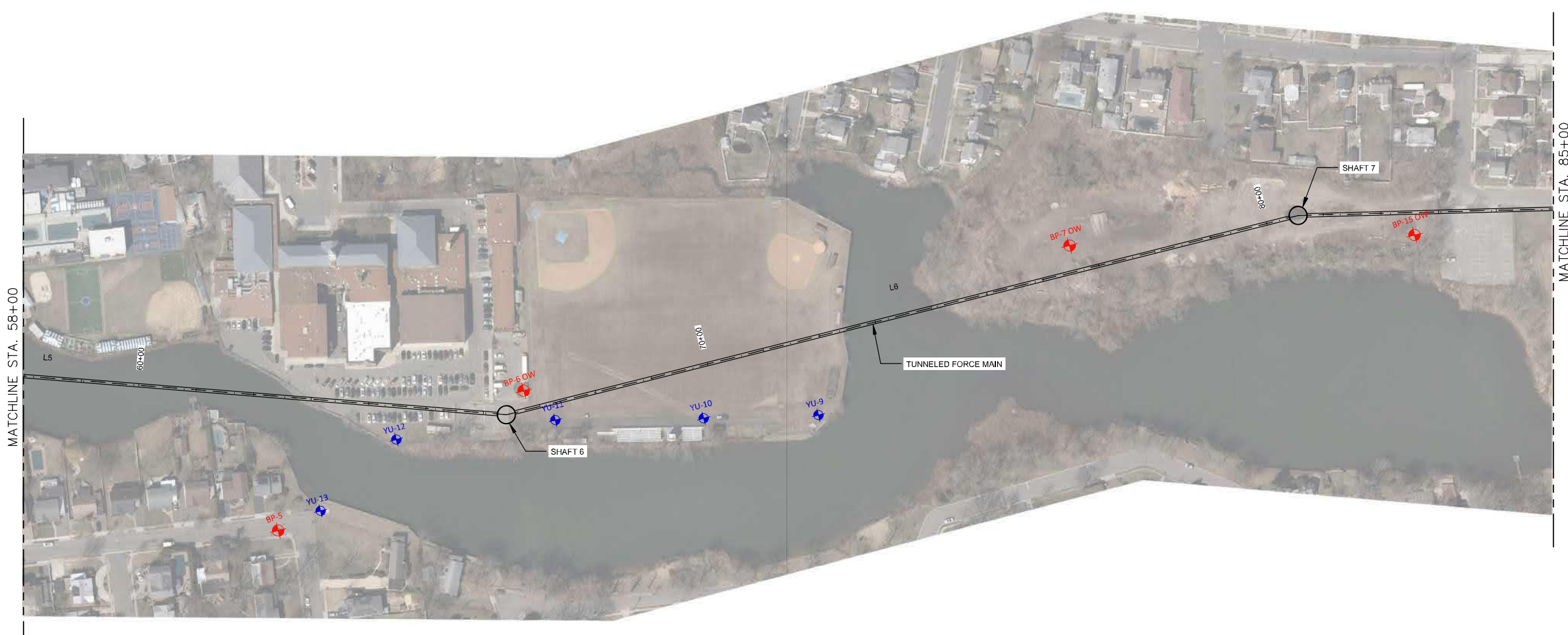
- NOTES:**
1. THE LOCATIONS OF BORINGS PERFORMED FOR WSP FOR THE SUBSURFACE INVESTIGATION FOR THE OCEAN OUTFALL EFFLUENT DIVERSION PROJECT WERE DETERMINED AS FOLLOWS: BY SURVEY PERFORMED BY GAYRON DE BRUIN LAND SURVEYING AND ENGINEERING, P.C., OR, BY TAPING AND LINE OF SIGHT MEASUREMENT OR GLOBAL POSITIONING SURVEY BY YU & ASSOCIATES; BOTH FIRMS ARE SUBCONSULTANTS TO WSP. THE BORINGS ARE DESIGNATED WITH THE PREFIX "BP".
  2. EIGHT BORINGS WERE PERFORMED DURING MARCH, 2015 FOR TECTONIC ENGINEERING & SURVEYING CONSULTANTS, P.C. AT 499 OCEAN AVENUE, EAST ROCKAWAY, NEW YORK. A BORING LOCATION PLAN WAS NOT AVAILABLE.
  3. EIGHT BORINGS WERE PERFORMED DURING JANUARY 2017 BY LANGAN ENGINEERING AND ENVIRONMENTAL SERVICES, P.C., FOR THE WOODCREST APARTMENTS PROJECT, IN OCEANSIDE, NEW YORK. THE LOCATIONS OF THE BORINGS WERE OBTAINED BY SCALING FROM A DRAWING PREPARED BY H2M, ARCHITECTS + ENGINEERS, ENTITLED "GRADING AND DRAINAGE PLAN, WOODCREST APARTMENTS AT OCEANSIDE," DRAWING C2.0, DATED JUNE 2017, REV. THROUGH 02/15/19.
  4. LOGS OF THE BORINGS SHOWN ON THIS DRAWING ARE INCLUDED IN THE GEOTECHNICAL DATA REPORT.

**BAY PARK FORCE MAIN PLAN**

LEGEND		ENGINEER, YEAR PERFORMED
	BP-3 OW (BP PREFIX BORINGS) OW, OBSERVATION WELL	WSP, 2019
	TT-1 (TT PREFIX BORINGS)	TECTONIC ENGINEERING & SURVEYING CONSULTANTS, P.C., 2015
	LB-1 (LB PREFIX BORINGS)	LANGAN ENGINEERING & ENVIRONMENTAL SERVICES, P.C., 2017

User:ABDA\_Spec:AUSA\GISMOD File C:\BIBUS\WSP-CR-05-102\_B105.DWG Scale:1:1 SavedDate:3/24/2020 Time:09:56 Plot Date: Abd. Ali, 3/24/2020, 17:07 Layout:GDR\_BP-B103





### BAY PARK FORCE MAIN PLAN



#### NOTES:

- EXCEPT FOR BORING BP-15 OW, THE LOCATIONS OF BORINGS PERFORMED FOR WSP FOR THE SUBSURFACE INVESTIGATION FOR THE OCEAN OUTFALL EFFLUENT DIVERSION PROJECT WERE DETERMINED BY GAYRON DE BRUIN LAND SURVEYING AND ENGINEERING, P.C., A SUBCONSULTANT TO WSP. THE LOCATION OF BORING BP-15 OW WAS COVERED BY A STOCKPILE AT THE TIME OF THE SURVEY; THE APPROXIMATE LOCATION IS BASED ON TAPING AND LINE OF SIGHT MEASUREMENTS MADE BY YU & ASSOCIATES, A SUBCONSULTANT TO WSP, AFTER COMPLETION OF THE WELL INSTALLATION. THE BORINGS ARE DESIGNATED WITH THE PREFIX "BP".
- THE LOCATION OF BORINGS PERFORMED FOR YU & ASSOCIATES WERE OBTAINED FROM FIGURE NUMBER 2, "BORING LOCATION PLAN," INCLUDED IN THE REPORT PREPARED BY YU & ASSOCIATES ENTITLED "GEOTECHNICAL DATA REPORT FOR EAST ROCKAWAY HIGH SCHOOL/LISTER PARK AND SOUTH CENTER AVENUE," DATED DECEMBER 5, 2018.
- LOGS OF THE BORINGS SHOWN ON THIS DRAWING ARE INCLUDED IN THE GEOTECHNICAL DATA REPORT.

#### LEGEND

- BP-5 OW (BP PREFIX BORINGS) OW, OBSERVATION WELL
- YU-9 (YU PREFIX BORINGS)

#### ENGINEER, YEAR PERFORMED

- WSP, 2019
- YU & ASSOCIATES, 2018

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	GDR_BP-B102_B105		
DESIGNED BY:	D. BASWANGA		
DRAWN BY:	J. JARRETT		
CHECKED BY:	R. VAKILI		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

#### SHEET TITLE

BAY PARK FORCE MAIN  
BORING LOCATION PLAN  
SHEET 4 OF 5

SCALE: AS SHOWN

**BP-B104**

PAGE 112

User:ARBDA\_Spec:AU:CS:GSD:GDR\_BP-B102\_B105.DWG Scale:1:1 SavedDate:3/23/2020 Time:21:00 PlotDate: Auto All 3/24/2020 09:52 Layout:GDR\_BP-B104





**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	GDR_BP-B102_B105		
DESIGNED BY:	D. BASWANGA		
DRAWN BY:	J. JARRETT		
CHECKED BY:	R. VAKILI		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

BAY PARK FORCE MAIN  
BORING LOCATION PLAN  
SHEET 5 OF 5

SCALE: AS SHOWN

BP-B105  
PAGE 113



**BAY PARK FORCE MAIN PLAN**

**NOTES:**

1. THE LOCATIONS OF BORINGS PERFORMED FOR WSP FOR THE SUBSURFACE INVESTIGATION FOR THE OCEAN OUTFALL EFFLUENT DIVERSION PROJECT WERE DETERMINED BY GAYRON DE BRUIN LAND SURVEYING AND ENGINEERING, P.C. A SUBCONSULTANT TO WSP. THE BORINGS ARE DESIGNATED WITH THE PREFIX "BP".
2. THE LOCATION OF BORINGS PERFORMED FOR ANDREWS, CLARK & BUCKLEY IN 1955 WERE OBTAINED FROM THE DOCUMENT "TEST BORINGS FOR SUNRISE HIGHWAY, MERRICK ROAD & LINCOLN AVE. INTERCHANGE," DATED JUNE 20, 1955. THE DRAWING WAS PROVIDED BY THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION.
3. LOGS OF THE BORINGS SHOWN ON THIS DRAWING ARE INCLUDED IN THE GEOTECHNICAL DATA REPORT.

**LEGEND**

	(BP PREFIX BORINGS) OW, OBSERVATION WELL
	(ACB PREFIX BORINGS)

**ENGINEER, YEAR PERFORMED**

WSP, 2019
ANDREWS, CLARK & BUCKLEY, 1955

User:ARDA\_Spec:AUSA\CSMDC File:CBIBSIS\WSP-CR-BP-B102\_B105.DWG Scale:1:1 SavedDate:3/23/2020 Time:21:00 PlotDate: Auto All 3/24/2020 09:52 Layout:GDR\_BP-B105



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	GDR_CC-B101_B104		
DESIGNED BY:	D. BASWANGA		
DRAWN BY:	J. JARRETT		
CHECKED BY:	R. VAKILI		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

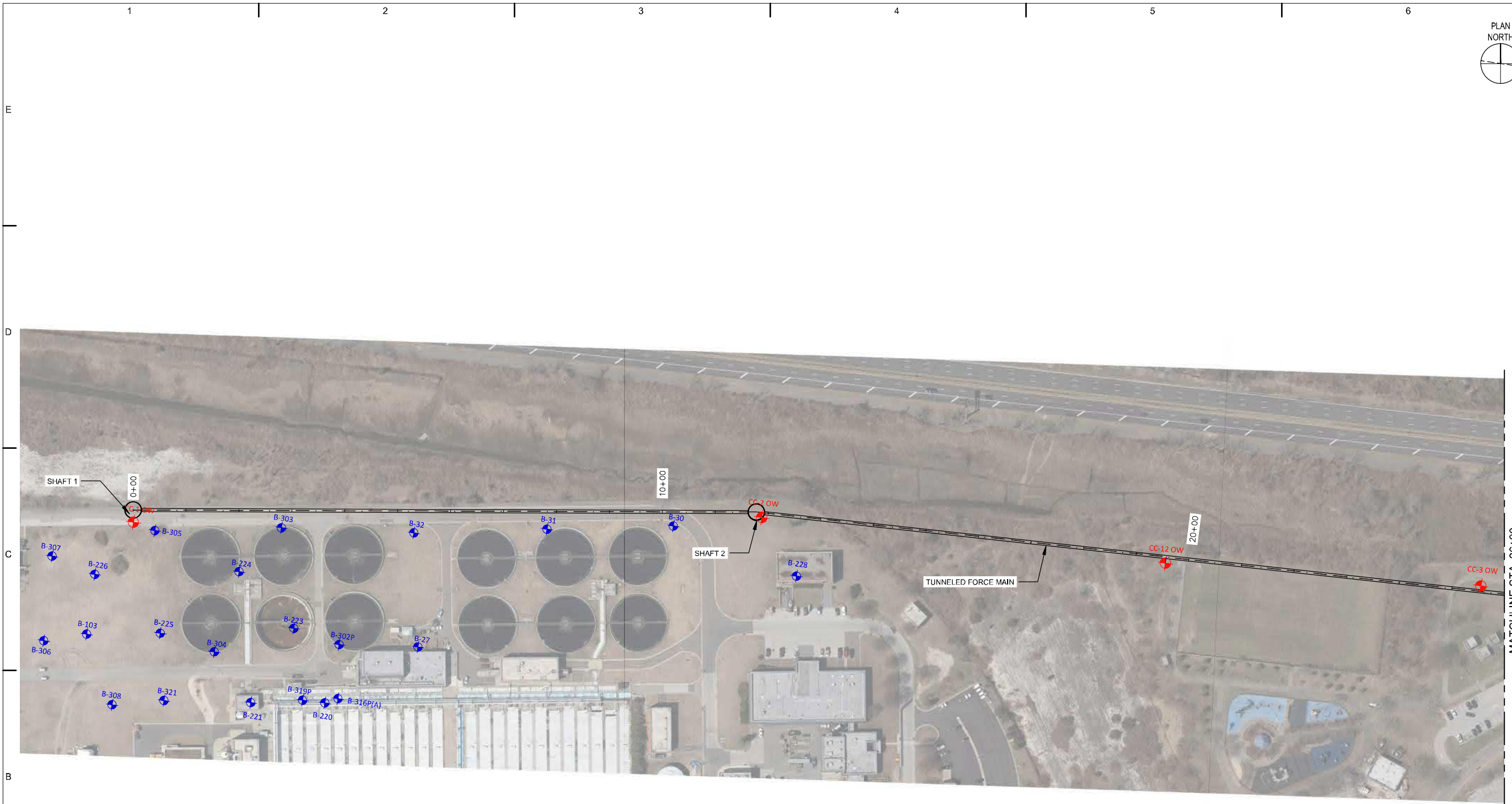
OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

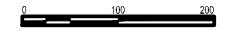
CEDAR CREEK FORCE MAIN  
BORING LOCATION PLAN  
SHEET 1 OF 4

SCALE: AS SHOWN

CC-B101  
PAGE 114



**CEDAR CREEK FORCE MAIN PLAN**



**NOTES:**

1. THE LOCATIONS OF BORINGS PERFORMED FOR WSP FOR THE SUBSURFACE INVESTIGATION FOR THE OCEAN OUTFALL EFFLUENT DIVERSION PROJECT WERE DETERMINED AS FOLLOWS: BY SURVEY PERFORMED BY GAYRON DE BRUIN LAND SURVEYING AND ENGINEERING, P.C.; OR, BY TAPING AND LINE OF SIGHT MEASUREMENT OR GLOBAL POSITIONING SURVEY BY YU & ASSOCIATES; BOTH FIRMS ARE SUBCONSULTANTS TO WSP. THE BORINGS ARE DESIGNATED WITH THE PREFIX "CC".
2. THE LOCATIONS OF BORINGS PERFORMED FOR MUESER RUTLEDGE CONSULTING ENGINEERS, HEREAFTER MRCE, AND CONVERSE CONSULTANTS, INC., AND BY W.M. WALSH COMPANY, INC. (DRILLER) WERE OBTAINED FROM DRAWING NUMBER B-1, "BORING LOCATION PLAN," INCLUDED IN THE REPORT PREPARED BY MRCE ENTITLED, "GEOTECHNICAL DATA REPORT, CEDAR CREEK WPCP EXPANSION," DATED APRIL 3, 1985.
3. LOGS OF THE BORINGS SHOWN ON THIS DRAWING ARE INCLUDED IN THE GEOTECHNICAL DATA REPORT.

**LEGEND**

- ◆ CC-1 OW (CC PREFIX BORINGS)  
OW, OBSERVATION WELL
- ◆ B-302P (300-SERIES BORINGS)  
P, OBSERVATION WELL
- ◆ B-103 (100-SERIES BORINGS)
- ◆ B-220 (200-SERIES BORINGS)
- ◆ B-27 (DOUBLE DIGIT SERIES BORINGS)

**ENGINEER, YEAR PERFORMED**

- WSP, 2019
- MUESER RUTLEDGE CONSULTING ENGINEERS, 1985
- CONVERSE CONSULTANTS, INC., 1983
- CONVERSE CONSULTANTS, INC., 1983
- W.M. WALSH COMPANY, INC., 1986

User: ARBA, Spec: AUSA\CS\MOD File: C:\BIBUS\WSP\CC-B101\_B104.DWG Scale: 1:1 Saved: 04/20/2020 Time: 13:39 Plot Date: 04/20/2020 09:55 Layer: GDR\_CC-B101





**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	GDR_CC-B101_B104		
DESIGNED BY:	D. BASWANGA		
DRAWN BY:	J. JARRETT		
CHECKED BY:	R. VAKILI		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

CEDAR CREEK FORCE MAIN  
BORING LOCATION PLAN  
SHEET 2 OF 4

SCALE: AS SHOWN

ENGINEER, YEAR PERFORMED  
WSP, 2019

**CC-B102**

PAGE 115

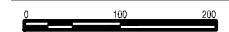


- NOTES:**
1. THE LOCATIONS OF BORINGS PERFORMED FOR WSP FOR THE SUBSURFACE INVESTIGATION FOR THE OCEAN OUTFALL EFFLUENT DIVERSION PROJECT WERE DETERMINED AS FOLLOWS: BY SURVEY PERFORMED BY GAYRON DE BRUIN LAND SURVEYING AND ENGINEERING, P.C.; OR, BY TAPING AND LINE OF SIGHT MEASUREMENT OR GLOBAL POSITIONING SURVEY BY YU & ASSOCIATES; BOTH FIRMS ARE SUBCONSULTANTS TO WSP. THE BORINGS ARE DESIGNATED WITH THE PREFIX "CC".
  2. LOGS OF THE BORINGS SHOWN ON THIS DRAWING ARE INCLUDED IN THE GEOTECHNICAL DATA REPORT.
  3. BORING CC-9 IS LOCATED AT STA. 32+84, OFFSET 1014' RIGHT.
  4. BORING CC-10 OW IS LOCATED AT STA. 47+33, OFFSET 1267' RIGHT.

SEE NOTE 3 →

SEE NOTE 4 →

**CEDAR CREEK FORCE MAIN PLAN**



**LEGEND**

CC-4 OW (CC PREFIX BORINGS)  
OW, OBSERVATION WELL

**ENGINEER, YEAR PERFORMED**

WSP, 2019

User:ABDA\_Spec:AUSA\CS\MOD File C:\BIB\SI\WSP\CC-B101\_B104\DWG Scale:1:1 SavedDate: 3/23/2020 Time: 13:39 Plot Date: Abid\_AI\_3/24/2020 09:55 Layer:GDR\_CC-B102







**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	GDR_CC-B101_B104		
DESIGNED BY:	D. BASWANGA		
DRAWN BY:	J. JARRETT		
CHECKED BY:	R. VAKILI		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

CEDAR CREEK FORCE MAIN  
BORING LOCATION PLAN

SHEET 4 OF 4

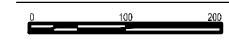
SCALE: AS SHOWN

CC-B104

PAGE 117



**CEDAR CREEK FORCE MAIN PLAN**



**NOTES:**

1. THE LOCATIONS OF BORINGS PERFORMED FOR WSP FOR THE SUBSURFACE INVESTIGATION FOR THE OCEAN OUTFALL EFFLUENT DIVERSION PROJECT WERE DETERMINED BY GAYRON DE BRUIN LAND SURVEYING AND ENGINEERING, PC, A SUBCONSULTANT TO WSP. THE BORINGS ARE DESIGNATED WITH THE PREFIX "CC".
2. LOGS OF THE BORINGS SHOWN ON THIS DRAWING ARE INCLUDED IN THE GEOTECHNICAL DATA REPORT.

**LEGEND**

CC-8A OW (CC PREFIX BORINGS)  
OW, OBSERVATION WELL

**ENGINEER, YEAR PERFORMED**

WSP, 2019

User:ARBA, Spec:AUS\CS\MOD File C:\BIS\WSP\Sub\US\K\Z\WSP\_A\LAB\ID\017679\GDR\_CC-B101\_B104.DWG Scale:1:1 SavedDate:3/23/2020 Time:13:39 Plot Date: 04/01/2020 09:54 L:\proj\GDR\_CC-B104



User: MORALESI, Spec: ALUS-UCS3M.D File: C:\BIB\GIS\GIS-DB\US-PP\42\WSP\_...JDBE.MXD Date: 3/27/2020 Time: 10:06 AM Plot Date: Morales, Jose, 3/27/2020, 15:59, Layout: GT1001
















**GENERAL NOTES - INSTRUMENTATION:**

1. INSTRUMENTS SHALL BE FURNISHED, INSTALLED, INITIALIZED, BASELINED MONITORED, AND MAINTAINED THROUGHOUT THE PERIOD OF THE CONTRACT, IN ACCORDANCE WITH THE REQUIREMENTS OF SPECIFICATION SECTION 02495. INSTRUMENTS INSTALLED BY OTHERS BUT USED FOR MONITORING SHALL BE INITIALIZED, MONITORED AND MAINTAINED.
2. THE INSTRUMENTATION INDICATED ON THE DRAWINGS IS THE MINIMUM REQUIREMENT FOR THE FORCE MAIN ALIGNMENTS AND SHAFT LOCATIONS SHOWN ON THE INSTRUMENTATION DRAWINGS.
  - 2.1 THE CONTRACTOR SHALL SUBMIT A GEOTECHNICAL INSTRUMENTATION PLAN IN ACCORDANCE WITH THE REQUIREMENTS OF SPECIFICATION SECTION 02495.
  - 2.2 THE GEOTECHNICAL INSTRUMENTATION PLAN SHALL BE BASED ON THE CONTRACTOR'S PROPOSED ALIGNMENT AND PROFILE OF THE FORCE MAINS, LOCATIONS AND DEPTHS OF SHAFTS, AND MEANS AND METHODS OF CONSTRUCTION.
    - 2.2.1 IF THE CONTRACTOR MAKES ANY CHANGES IMPACTING THE LAYOUT OF THE INSTRUMENTS, THE LAYOUT OF THE INSTRUMENTATION SHALL BE REVISED TO FOLLOW THE INTENT OF THE SCOPE SHOWN ON THE DRAWINGS.
3. THE ACTUAL LOCATIONS AND ELEVATIONS OF INSTRUMENTS SHALL BE ADJUSTED BASED ON FIELD CONDITIONS.
4. DEFLECTIONS MAY BE MONITORED BY CONVENTIONAL ELECTRONIC THEODOLITES OR AMTS (AUTOMATED MOTORIZED TOTAL STATION THEODOLITES), WITH THE EXCEPTION NOTED BELOW.
  - 4.1 THE PRISMS TO BE INSTALLED ON THE LIRR (LONG ISLAND RAILROAD) TRACKS, SEE DWG. BP-1104, SHALL BE MONITORED WITH AMTS.
  - 4.2 ANY STRUCTURES REQUIRED FOR MOUNTING OF AMTS SHALL BE CONSTRUCTED/INSTALLED BY THE CONTRACTOR.
5. BENCHMARKS FOR MONITORING SHALL BE ESTABLISHED BY THE CONTRACTOR'S GEOTECHNICAL INSTRUMENTATION ENGINEER, HEREAFTER GIE.
  - 5.1 A SEPARATE BENCHMARK SHALL BE ESTABLISHED FOR THE INSTRUMENTATION AT EACH SHAFT LOCATION.
  - 5.2 ADDITIONAL BENCHMARKS SHALL BE ESTABLISHED AS DETERMINED BY THE GIE.
  - 5.3 BENCHMARKS SHALL BE INSTALLED IN GENERAL ACCORDANCE WITH THE DETAIL SHOWN ON DWG. GT-1502. ALTERNATIVELY, PLACE BENCHMARKS ON PILE SUPPORTED STRUCTURES OUTSIDE THE INFLUENCE ZONE OF THE CONSTRUCTION.
6. AT THE BEGINNING OF EACH REACH OF TUNNELED FORCE MAIN, SETTLEMENT OF THE GROUND SURFACE SHALL BE MONITORED ALONG A MINIMUM OF ONE (1) CROSS SECTION PERPENDICULAR TO THE TUNNEL ALIGNMENT.
  - 6.1 THE INITIAL CROSS SECTION SHALL BE LOCATED APPROXIMATELY TEN (10) FEET BEYOND THE LIMIT OF GROUND IMPROVEMENT PERFORMED AT THE BREAKOUT FROM EACH SHAFT.
  - 6.2 THE FOLLOWING INSTRUMENTS AT THE CROSS SECTION SHALL INCLUDE, AT A MINIMUM: A BOREHOLE EXTENSOMETER OVER THE CENTERLINE OF THE FORCE MAIN; SURFACE MOVEMENT MONITORING POINTS, TYPE 1, OFFSET AT 15 FEET AND 35 FEET ON BOTH SIDES OF THE CENTERLINE OF THE FORCE MAIN.
  - 6.3 IF THE SETTLEMENT AT THE SHALLOWEST ANCHOR OF THE BOREHOLE EXTENSOMETER OR ANY OF THE SURFACE MOVEMENT MONITORING POINTS EXCEEDS 0.75 INCH, TUNNELING PROCEDURES SHALL BE REVIEWED AND ADJUSTED TO REDUCE GROUND SETTLEMENT. AN ADDITIONAL CROSS SECTION SHALL BE MONITORED TO CONFIRM THE EFFECTIVENESS OF THE MODIFICATIONS IN REDUCING SETTLEMENT. THE ADDITIONAL CROSS SECTION SHALL INCLUDE THE SAME ARRAY OF INSTRUMENTS, EXCEPT A SURFACE MONITORING POINT, TYPE 1 SHALL BE INSTALLED OVER THE CENTERLINE OF THE FORCE MAIN INSTEAD OF THE BOREHOLE EXTENSOMETER.
    - 6.3.1 THE ENGINEER OF RECORD MAY SPECIFY A LIMIT LESS THAN 0.75 INCH FOR ADDITIONAL MONITORING BASED ON HIS EVALUATION OF POTENTIAL IMPACT OF GROUND LOSS ON EXISTING STRUCTURES, THE LIRR TRACKS, UTILITIES AND OTHER INFRASTRUCTURE ALONG THE FORCE MAIN ALIGNMENTS.
  - 6.4 IF THE MODIFICATIONS IN TUNNELING PROCEDURES HAVE NOT REDUCED SETTLEMENT TO BELOW THE SPECIFIED LIMIT, ADDITIONAL MODIFICATIONS SHALL BE MADE, AND CROSS SECTIONS INSTRUMENTED AND MONITORED UNTIL THE SPECIFIED LIMIT IS MET.
  - 6.5 ADDITIONAL CROSS SECTIONS SHALL NOT BE MORE THAN 100 FEET BEYOND THE INITIAL CROSS SECTION OR ANY SUBSEQUENT CROSS SECTION WHICH EXCEEDS THE SPECIFIED LIMITS.
7. VIBRATION SHALL BE MONITORED THROUGHOUT THE CONSTRUCTION PERIOD AT LOCATIONS WHERE CONSTRUCTION ACTIVITY IS LIKELY TO GENERATE SUCH VIBRATION.
  - 7.1 SEISMOGRAPHS SHALL BE FURNISHED, INSTALLED, AND OPERATED AS REQUIRED FOR THE MONITORING.
  - 7.2 GEOPHONES SHALL BE ANCHORED TO CONCRETE AS SHOWN ON THE DETAIL ON DWG. GT-1503. IF A SOIL DEPLOYMENT IS POSSIBLE, SPIKES ATTACHED TO THE GEOPHONE MAY BE USED TO ASSURE GOOD COUPLING. WHERE NEITHER OF THESE METHODS IS AVAILABLE, A SANDBAG MAY BE USED ON THE GEOPHONE, SECURELY DRAPED OVER THE GEOPHONE, AND TOUCHING THE GROUND SO NOT TO AMPLIFY GROUND VIBRATION.
  - 7.3 SEISMOGRAPHS SHALL BE LOCATED AT STRUCTURES DETERMINED TO BE OF CONCERN, DEPLOYED ON THE GROUND OUTSIDE OF THE STRUCTURE.
8. BASED ON THE PRECONDITION SURVEYS, CRACK GAGES, SIMILAR TO THE ONE SHOWN ON THE DETAIL ON DWG. GT-1503, SHALL BE INSTALLED TO MONITOR DEFLECTION.
9. EXISTING GROUNDWATER OBSERVATION WELLS INSTALLED FOR THE PRELIMINARY SUBSURFACE INVESTIGATION ARE SHOWN ON THE INSTRUMENTATION PLANS. THE CONTRACTOR SHALL ABANDON WELLS PRIOR TO CONSTRUCTION IF NECESSARY TO PREVENT INTERFERENCE WITH TUNNELING AND EXCAVATION ACTIVITIES.
10. UPON SUBSTANTIAL COMPLETION OF THE WORK, ALL INSTRUMENTATION SHALL BE REMOVED, AND STRUCTURES AND PAVEMENTS RESTORED TO A CONDITION ACCEPTABLE TO THE PROPERTY OR FACILITY OWNER.
  - 10.1 ALL IN GROUND INSTRUMENTATION SHALL BE ABANDONED IN ACCORDANCE WITH THE REQUIREMENTS OF SPECIFICATION SECTION 02495.

**GENERAL NOTES - PRE-AND POST-CONSTRUCTION CONDITION SURVEYS:**

1. PRE- AND POST- CONSTRUCTION CONDITION SURVEYS SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATION SECTION 02120.
2. THE STRUCTURES AND FACILITIES DESIGNATED TO BE SURVEYED ON THE DRAWINGS ARE THE MINIMUM FOR THE FORCE MAIN ALIGNMENTS AND SHAFT LOCATIONS SHOWN ON THE INSTRUMENTATION DRAWINGS.
3. THE STRUCTURES AND FACILITIES TO BE SURVEYED SHALL BE BASED ON THE APPROVED ALIGNMENT AND PROFILE OF THE FORCE MAINS, LOCATIONS AND DEPTHS OF SHAFTS, AND MEANS AND METHODS OF CONSTRUCTION.
  - 3.1 THE SCOPE OF THE SURVEYS SHALL CORRESPOND TO THE INTENT SHOWN ON THE DRAWINGS.

**LEGEND**

SYMBOL	ABBREVIATION	DESCRIPTION
	NONE	SHAFT
	NONE	MICROTUNNELED FORCE MAIN
	S1	SURFACE MOVEMENT MONITORING POINT TYPE 1
	S2	SURFACE MOVEMENT MONITORING POINT TYPE 2 IN MASONRY OR CONCRETE
	S3	SURFACE MOVEMENT MONITORING POINT TYPE 3, PAINT MARK ON CONCRETE OR ASPHALT
	S4	SURFACE MOVEMENT MONITORING POINT TYPE 4, ROAD PRISM
	SP	PRISM OR TARGET FOR STRUCTURAL/RAILROAD (FOR AMTS OR CONVENTIONAL SURVEY)
	IS	INCLINOMETER IN SOIL
	IW	INCLINOMETER INSTALLED WITHIN SUPPORT WALLS
	BX	MULTIPLE POSITION BOREHOLE EXTENSOMETER
	DB	DEEP BENCHMARK
	UMP	UTILITY MONITORING POINT
	OW	OBSERVATION WELL
	OW	EXISTING GROUNDWATER OBSERVATION WELL
		STRUCTURE OR FACILITY FOR WHICH PRE- AND POST-CONSTRUCTION SURVEYS SHALL BE PERFORMED



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

ALL INFORMATION SHOWN ON THIS DRAWING REPRESENTS MANDATORY MINIMUM REQUIREMENTS. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

FINAL DESIGN CRITERIA PACKAGE			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	GT-1001		
DESIGNED BY:	R. VAKILI		
DRAWN BY:	J. DIAZ		
CHECKED BY:	K. LARSSON		

NASSAU COUNTY, NEW YORK  
**DEPARTMENT OF PUBLIC  
WORKS**

**OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT**

SHEET TITLE

GEOTECHNICAL  
INSTRUMENTATION

**GENERAL NOTES  
AND LEGEND**

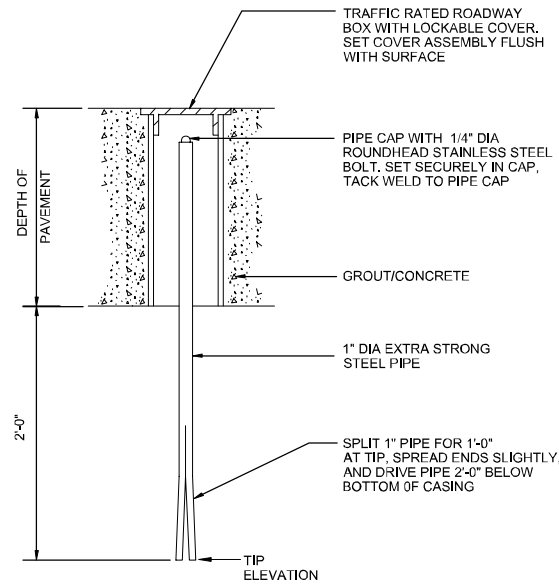
SCALE: NOT TO SCALE

**GT-1001**

PAGE 118



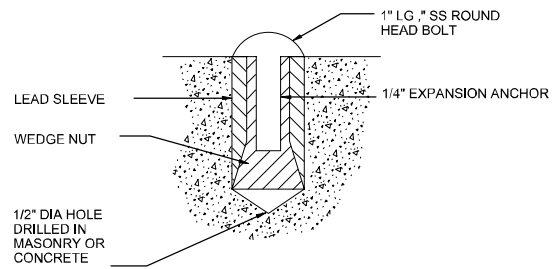
**SURFACE MOVEMENT MONITORING POINT, TYPE 1 (S1) ●**



**NOTES:**

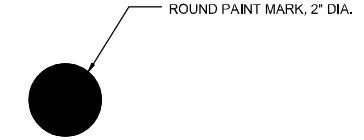
1. WHERE PAVEMENT NOT PRESENT, ROADWAY BOX TO BE 2 FEET IN LENGTH AND GROUTED/CONCRETED INTO PLACE.
2. ANNULUS BETWEEN ROADWAY BOX AND 1" DIA. PIPE SHALL BE FREE OF CONCRETE/GROUT. SURFACE OF 1" PIPE SHALL NOT BE IN CONTACT WITH CONCRETE/GROUT.

**SURFACE MOVEMENT MONITORING POINT, TYPE 2 (S2) ◻**



TO BE INSERTED BELOW HEAD OF BOLT

**SURFACE MOVEMENT MONITORING POINT, TYPE 3 - PAINT MARK (S3) ●**



**NOTES:**

1. PAINT MARKS TO BE USED TO MONITOR SETTLEMENT OF SURFACES OF ATHLETIC COURTS AND WALKWAYS.
2. IF POSSIBLE, SCRIBE SURFACE AT CENTER OF PAINT MARK.

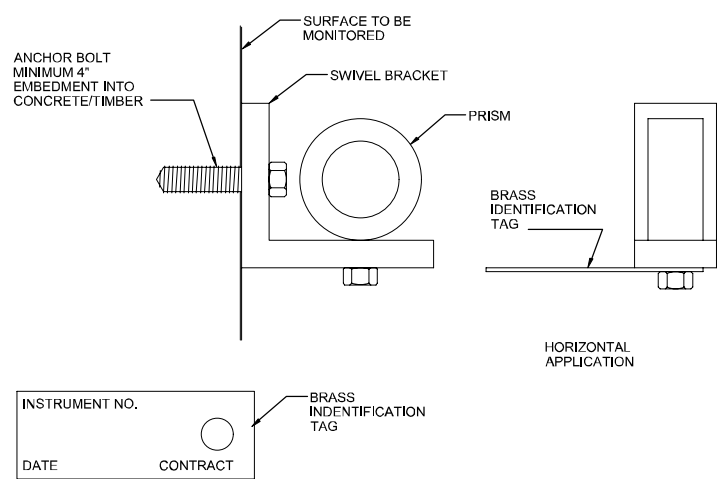
**PRELIMINARY NOT FOR CONSTRUCTION**

DATE: 04/2020

ALL INFORMATION SHOWN ON THIS DRAWING REPRESENTS MANDATORY MINIMUM REQUIREMENTS. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

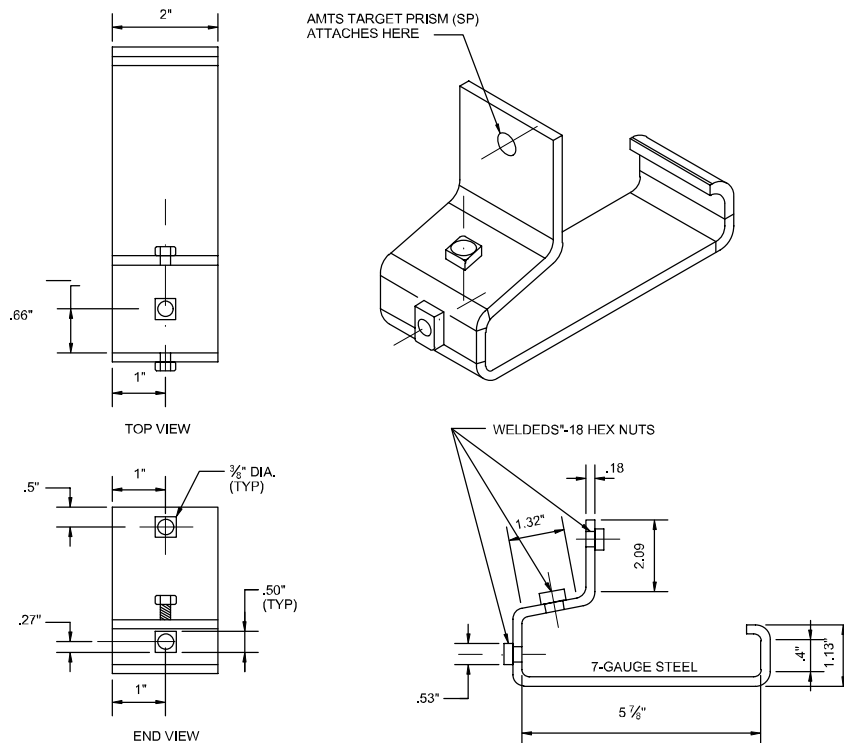
**PRISM FOR DEFORMATION MONITORING (SP) ⊗**



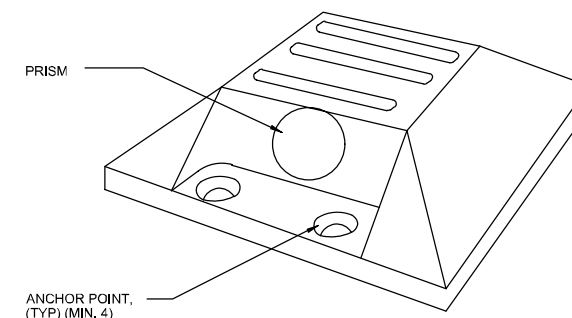
**NOTES:**

1. ANCHOR EITHER INTO SOUND CONCRETE OR ATTACH TO TIMBER MEMBER.
2. ADHESIVE SURVEY TARGETS MAY BE USED WHERE PROPERTY/FACILITY OWNER WILL NOT ALLOW ANCHOR.
3. BRASS IDENTIFICATION TAGS SHALL BE VISIBLE TO SURVEY CREW.

**BRACKET FOR AMTS TARGET PRISM ON RAIL (SP) ⊗**



**SURFACE MOVEMENT MONITORING POINT, TYPE 4 - ROAD PRISM ●**



**NOTES:**

1. ROAD PRISMS TO BE LOW PROFILE, CAST ALUMINUM.
2. PRISMS TO BE ANCHORED INTO ASPHALT PAVEMENTS AND CONCRETE PAVEMENTS AND SIDEWALKS. ANCHORS TO BE SELECTED BY CONTRACTOR BASED ON FIELD CONDITIONS.

**FINAL DESIGN CRITERIA PACKAGE**

DATE: APRIL 2020  
 PROJECT NO.: PW-S3B116-03CR  
 FILE NAME: GT-I501  
 DESIGNED BY: R. VAKILI  
 DRAWN BY: J. DIAZ  
 CHECKED BY: K. LARSSON

NASSAU COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC WORKS

OCEAN OUTFALL  
 EFFLUENT DIVERSION  
 PROJECT

**SHEET TITLE**

GEOTECHNICAL INSTRUMENTATION

TYPICAL INSTRUMENTATION DETAILS

SCALE: NOT TO SCALE

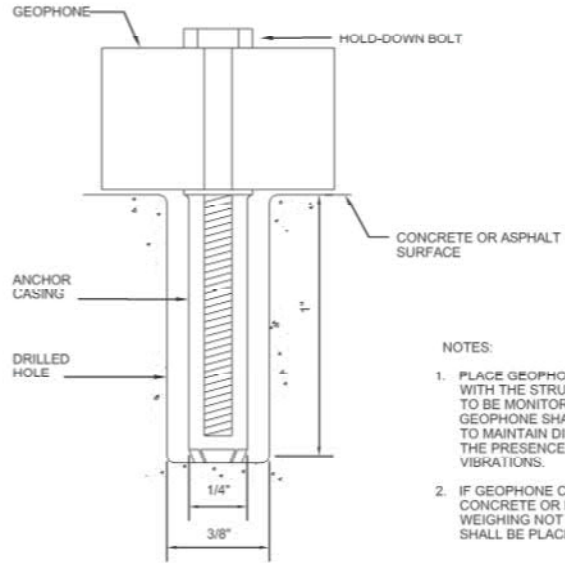
GT-I501

PAGE 119

User:ARDA-Shera\AUC-GENMOD File:G:\B\WSP-PS-05\42\WSP\_A\LABID\3\5816\4GT-451.DWG Scale:1:1 Sheet:11 of 26 Plot Date: 04/20/2020 Time: 10:26 Plot Path: A:\320\2020\11\11\Layout\LAYOUT1

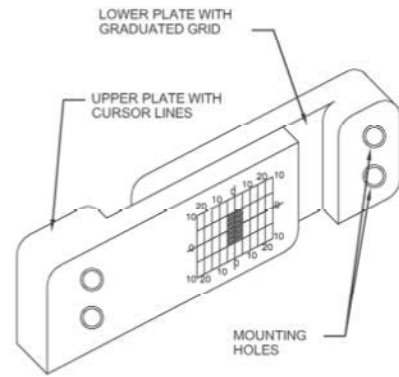


**GEPHONE AND ANCHOR**



- NOTES:**
1. PLACE GEOPHONE IN DIRECT CONTACT WITH THE STRUCTURE OR PAVEMENT TO BE MONITORED USING AN ANCHOR. GEOPHONE SHALL BE FIRMLY MOUNTED TO MAINTAIN DIRECT CONTACT UNDER THE PRESENCE OF CONSTRUCTION VIBRATIONS.
  2. IF GEOPHONE CANNOT BE ANCHORED TO CONCRETE OR PAVEMENT, SAND BAG WEIGHING NOT LESS THAN 30 POUNDS, SHALL BE PLACED OVER THE GEOPHONE.

**CRACK GAUGE**



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	OCTOBER 2019		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	GT-I503		
DESIGNED BY:	R. VAKILI		
DRAWN BY:	J. DIAZ		
CHECKED BY:	K. LARSSON		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS  
  
OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE  
  
GEOTECHNICAL  
INSTRUMENTATION  
  
TYPICAL  
INSTRUMENTATION  
DETAILS

SCALE: NTS

GT-I503  
PAGE 121

User: MCFARLANE, Spec: US-NCBMOD, Pk: C:\BMS\YSPR\B-US-PW-03\YSPR...JOSE.MORALESD\AS6616\GT-I503.DWG, Scale: 1:1, Sheet Date: 09/20/19, Time: 12:39, Plot Date: 10/20/19, 14:20, Layout: LAYOUT1





**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

ALL INFORMATION SHOWN ON THIS DRAWING REPRESENTS MANDATORY MINIMUM REQUIREMENTS. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	BP-1101-1108		
DESIGNED BY:	K. LARSSON		
DRAWN BY:	J. JARRETT		
CHECKED BY:	E. LITTON		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

BAY PARK FORCE MAIN

GEOTECHNICAL  
INSTRUMENTATION PLAN

SHEET 1 OF 8

SCALE: AS SHOWN

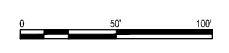
BP-1101

PAGE 122

**BAY PARK INSTRUMENTATION PLAN**

1" = 50'-0"

- NOTES:**
- FOR GENERAL NOTES AND LEGEND, SEE DWG. GT-1001.
  - GROUND SETTLEMENT ALONG A CROSS SECTION PERPENDICULAR TO THE FORCE MAIN ALIGNMENT SHALL BE MONITORED AT A MINIMUM OF ONE LOCATION AFTER BREAKOUT FROM EACH SHAFT. SEE GENERAL NOTE 5, DWG. GT-1001. THE LOCATIONS OF THE CROSS SECTIONS SHOWN ON THE DRAWINGS SHALL BE ADJUSTED BASED ON THE DIRECTION OF TUNNELING FROM EACH SHAFT.



User: MORALESI, Spec: ALUS-UCS3M000, File: C:\BIB\GIS\BIB-PS-BUS-PIV\42\WSP...\_JOBSE.MXD, ESRI: MORALESI, Date: 04/20/2020, Time: 15:17, Plot Date: Morales, User: 3/30/2020, 12:05, Layout: BP-1101





### BAY PARK INSTRUMENTATION PLAN

1" = 50'-0"

- NOTES:**
- FOR GENERAL NOTES AND LEGEND, SEE DWG. GT-1001.
  - GROUND SETTLEMENT ALONG A CROSS SECTION PERPENDICULAR TO THE FORCE MAIN ALIGNMENT SHALL BE MONITORED AT A MINIMUM OF ONE LOCATION AFTER BREAKOUT FROM EACH SHAFT. SEE GENERAL NOTE 5, DWG. GT-1001. THE LOCATIONS OF THE CROSS SECTIONS SHOWN ON THE DRAWINGS SHALL BE ADJUSTED BASED ON THE DIRECTION OF TUNNELING FROM EACH SHAFT.

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

ALL INFORMATION SHOWN ON THIS DRAWING REPRESENTS MANDATORY MINIMUM REQUIREMENTS. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	BP-1101-1108		
DESIGNED BY:	K. LARSSON		
DRAWN BY:	J. JARRETT		
CHECKED BY:	E. LITTON		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

BAY PARK FORCE MAIN

GEOTECHNICAL  
INSTRUMENTATION PLAN

SHEET 2 OF 8

SCALE: AS SHOWN



BP-1102

PAGE 123

User: ARBA, Spec: AUS, CS: MOD, File: C:\BIBS\WSP\CS-CR-105\PHAZOP\WSP\_A1\LAB\101\26221\BP-1101-1108.DWG, Scale: 1/2"=50'-0", Date: 3/24/2020, Time: 16:39, Plot Date: Add, AI: 3/25/2020, 08:55, Layout: BP-1102





MATCHLINE STA. 26+00

MATCHLINE STA. 39+00

### BAY PARK INSTRUMENTATION PLAN

1" = 50'-0"

#### NOTES:

- FOR GENERAL NOTES AND LEGEND, SEE DWG. GT-1001.
- GROUND SETTLEMENT ALONG A CROSS SECTION PERPENDICULAR TO THE FORCE MAIN ALIGNMENT SHALL BE MONITORED AT A MINIMUM OF ONE LOCATION AFTER BREAKOUT FROM EACH SHAFT. SEE GENERAL NOTE 5, DWG. GT-1001. THE LOCATIONS OF THE CROSS SECTIONS SHOWN ON THE DRAWINGS SHALL BE ADJUSTED BASED ON THE DIRECTION OF TUNNELING FROM EACH SHAFT.

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

ALL INFORMATION SHOWN ON THIS DRAWING REPRESENTS MANDATORY MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE: APRIL 2020  
 PROJECT NO.: PW-S3B116-03CR  
 FILE NAME: BP-1101-1108  
 DESIGNED BY: K. LARSSON  
 DRAWN BY: J. JARRETT  
 CHECKED BY: E. LITTON

NASSAU COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC  
 WORKS

OCEAN OUTFALL  
 EFFLUENT DIVERSION  
 PROJECT

SHEET TITLE

BAY PARK FORCE MAIN

GEOTECHNICAL  
 INSTRUMENTATION PLAN

SHEET 3 OF 8

SCALE: AS SHOWN



BP-1103

PAGE 124

User:ARBA, Spec:AUSA\CS\1108\DWG\_1108.DWG, Scale: 1/12, SavedDate: 3/24/2020, Time: 16:39, Plot Date: Add, At: 3/25/2020, 08:57, Layout: BP-1103





**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

ALL INFORMATION SHOWN ON THIS DRAWING REPRESENTS MANDATORY MINIMUM REQUIREMENTS. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
FINAL DESIGN CRITERIA PACKAGE			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	BP-1101-1108		
DESIGNED BY:	K. LARSSON		
DRAWN BY:	J. JARRETT		
CHECKED BY:	E. LITTON		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

BAY PARK FORCE MAIN

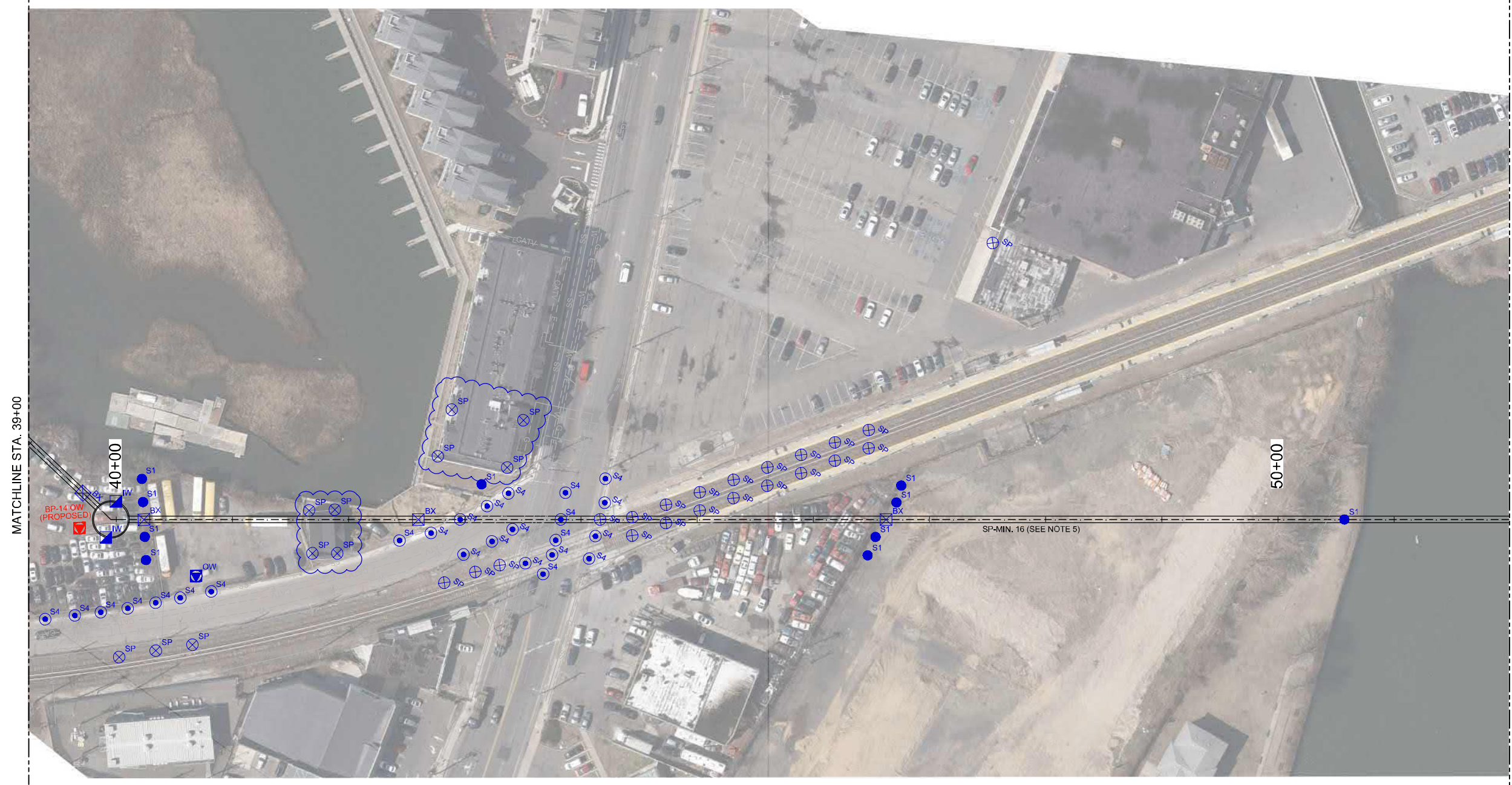
GEOTECHNICAL  
INSTRUMENTATION PLAN

SHEET 4 OF 8

SCALE: AS SHOWN

BP-1104

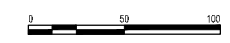
PAGE 125



- NOTES:**
- FOR GENERAL NOTES AND LEGEND, SEE DWG. GT-1001.
  - GROUND SETTLEMENT ALONG A CROSS SECTION PERPENDICULAR TO THE FORCE MAIN ALIGNMENT SHALL BE MONITORED AT A MINIMUM OF ONE LOCATION AFTER BREAKOUT FROM EACH SHAFT. SEE GENERAL NOTE 5, DWG. GT-1001. THE LOCATIONS OF THE CROSS SECTIONS SHOWN ON THE DRAWINGS SHALL BE ADJUSTED BASED ON THE DIRECTION OF TUNNELING FROM EACH SHAFT.
  - EACH PRISM SYMBOL SHOWN ON A TRACK REPRESENTS TWO (2) PRISMS, WITH A PRISM TO BE INSTALLED ON EACH RAIL AT THAT LOCATION. IN ADDITION, A PAINT MARK IS TO BE PROVIDED ON THE SIDE OF THE RAIL AT EACH PRISM AND THE POSITION OF THE TOP OF RAIL LOCATED HORIZONTALLY AND VERTICALLY BY GROUND SURVEY PRIOR TO THE START OF MONITORING BY AMTS (AUTOMATED MOTORIZED TOTAL STATION THEODOLITE). THE PAINT MARKS SHALL BE AVAILABLE FOR CONVENTIONAL SURVEY OF THE TOP OF THE RAIL, IF WARRANTED.
  - PRISMS TO BE LOCATED ON RAILS ARE TO BE SPACED AT APPROXIMATELY 31 FEET ON-CENTER.
  - THE WOODCREST VILLAGE DEVELOPMENT IS BEING CONSTRUCTED ON THIS PROPERTY AND IS ANTICIPATED TO BE COMPLETED AT THE TIME OF TUNNELING. EACH OF THE TWO PLANNED BUILDINGS IS TO BE MONITORED FOR DEFLECTION AT NOT LESS THAN FOUR PRISMS/TARGETS PLACED ON THE NORTH AND SOUTH FACES OF EACH STRUCTURE.

**BAY PARK INSTRUMENTATION PLAN**

1" = 50'-0"

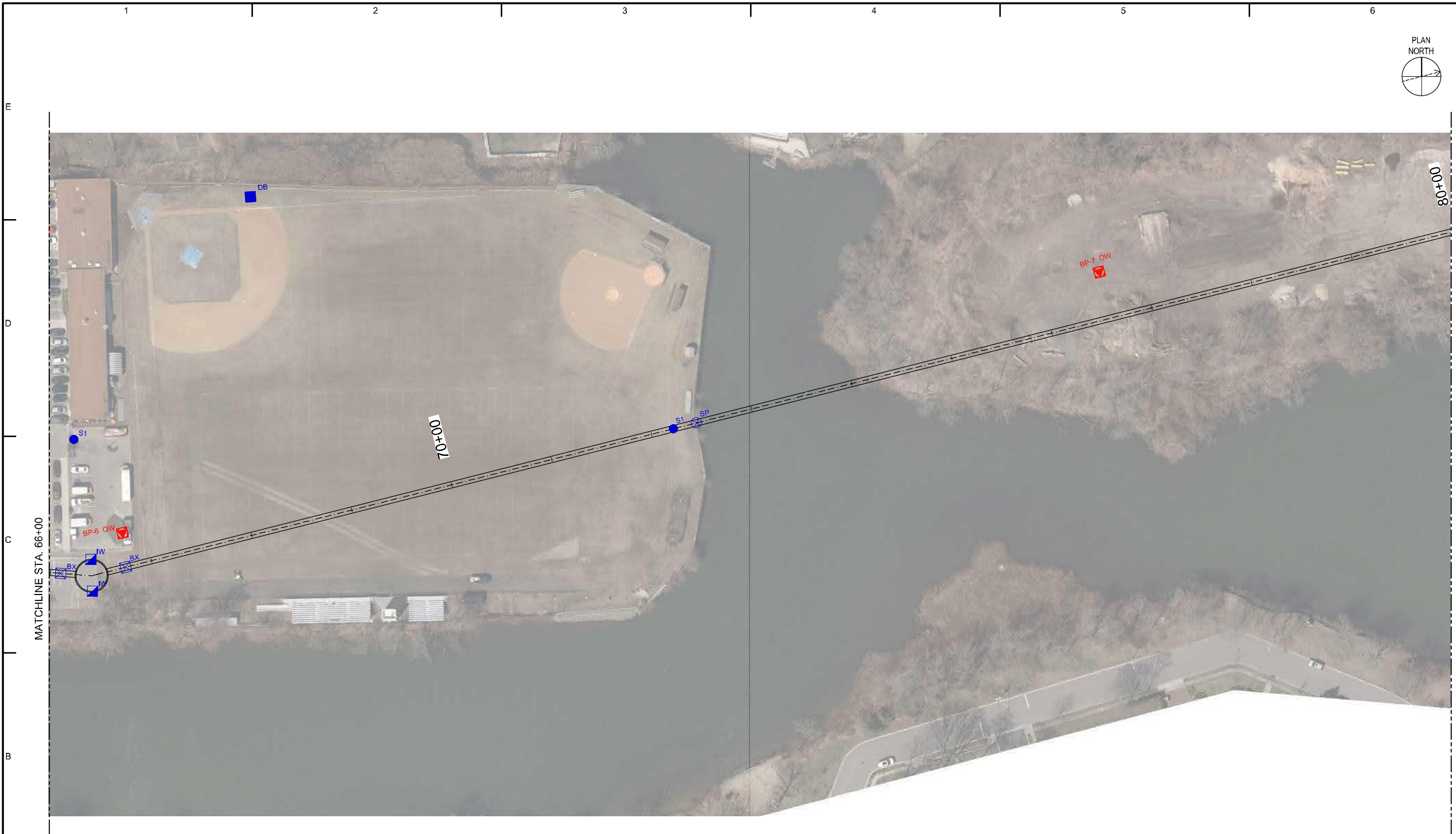


User:ARBA\_Spec-AUS\CS\MODE File C:\BIB\US\SP-50-US\SP-42\WSP\_A1\LAB\100176221\BP-1101-1108.DWG Scale: 1:12 Sheet Date: 3/24/2020 Time: 16:39 Plot Date: Add. At: 3/25/2020 08:59 Layout: BP-1104









**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

ALL INFORMATION SHOWN ON THIS DRAWING REPRESENTS MANDATORY MINIMUM REQUIREMENTS. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE: APRIL 2020  
 PROJECT NO.: PW-S3B116-03CR  
 FILE NAME: BP4101-1108  
 DESIGNED BY: K. LARSSON  
 DRAWN BY: J. JARRETT  
 CHECKED BY: E. LITTON

NASSAU COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC  
 WORKS

OCEAN OUTFALL  
 EFFLUENT DIVERSION  
 PROJECT

SHEET TITLE

BAY PARK FORCE MAIN

GEOTECHNICAL  
 INSTRUMENTATION PLAN

SHEET 6 OF 8

SCALE: AS SHOWN

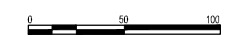
BP-I106

PAGE 127

**BAY PARK INSTRUMENTATION PLAN**

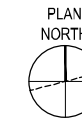
1" = 50'-0"

- NOTES:**
- FOR GENERAL NOTES AND LEGEND, SEE DWG. GT-I001.
  - GROUND SETTLEMENT ALONG A CROSS SECTION PERPENDICULAR TO THE FORCE MAIN ALIGNMENT SHALL BE MONITORED AT A MINIMUM OF ONE LOCATION AFTER BREAKOUT FROM EACH SHAFT. SEE GENERAL NOTE 5, DWG. GT-I001. THE LOCATIONS OF THE CROSS SECTIONS SHOWN ON THE DRAWINGS SHALL BE ADJUSTED BASED ON THE DIRECTION OF TUNNELING FROM EACH SHAFT.



User: SNEY\YSpec-AUSA\NCSMOD File: C:\BIS\WSP-PB-US-PN-420\WSP...\_VICTOR-SHE1\00126221\BP-I106-H106.DWG Scale: 1:112 SavedDate: 3/27/2020 Time: 14:15 Plot Date: Shey, Victor, 3/27/2020, 14:16 Layout: BP-I106





**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

ALL INFORMATION SHOWN ON THIS DRAWING REPRESENTS MANDATORY MINIMUM REQUIREMENTS. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	BP-1101-1108		
DESIGNED BY:	K. LARSSON		
DRAWN BY:	J. JARRETT		
CHECKED BY:	E. LITTON		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

BAY PARK FORCE MAIN

GEOTECHNICAL  
INSTRUMENTATION PLAN

SHEET 7 OF 8

SCALE:  
AS SHOWN

BP-1107

PAGE 128



**BAY PARK INSTRUMENTATION PLAN**

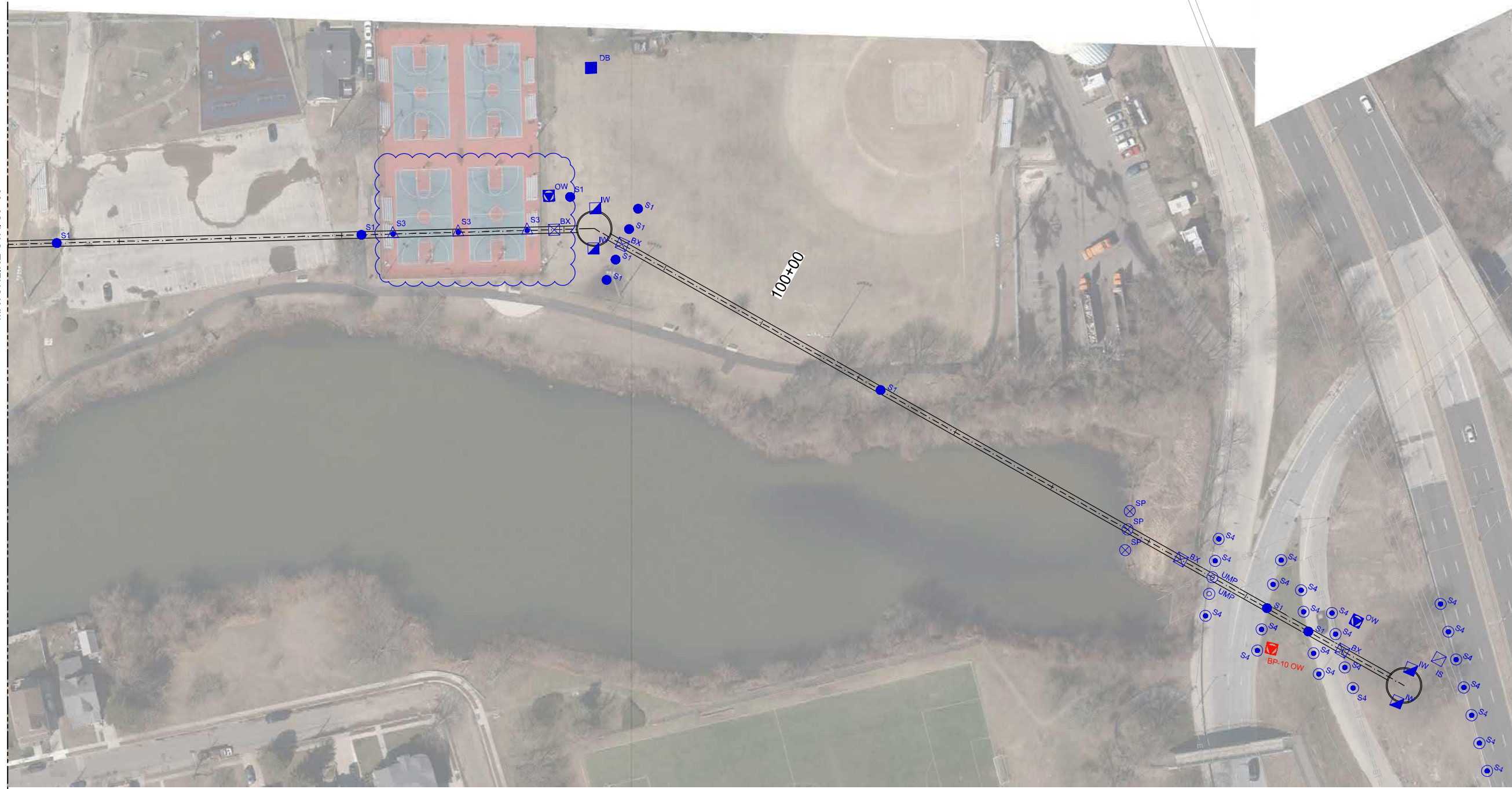
1" = 50'-0"

**NOTES:**

1. FOR GENERAL NOTES AND LEGEND, SEE DWG. GT-1001.
2. GROUND SETTLEMENT ALONG A CROSS SECTION PERPENDICULAR TO THE FORCE MAIN ALIGNMENT SHALL BE MONITORED AT A MINIMUM OF ONE LOCATION AFTER BREAKOUT FROM EACH SHAFT. SEE GENERAL NOTE 5, DWG. GT-1001. THE LOCATIONS OF THE CROSS SECTIONS SHOWN ON THE DRAWINGS SHALL BE ADJUSTED BASED ON THE DIRECTION OF TUNNELING FROM EACH SHAFT.

User: SNEY\YSpec-AUSA\NCSMOD File: C:\BIS\SWSP-PB-US-PN-420\WSP\_VICTOR-SHE1\00126221\BP-1101-1108.DWG Scale: 1/12 SavedDate: 3/27/2020 Time: 14:15 Plot Date: Shey, Victor, 3/27/2020, 14:54 Layout: BP-1107





### BAY PARK INSTRUMENTATION PLAN

1" = 50'-0"

- NOTES:**
- FOR GENERAL NOTES AND LEGEND, SEE DWG. GT-1001.
  - GROUND SETTLEMENT ALONG A CROSS SECTION PERPENDICULAR TO THE FORCE MAIN ALIGNMENT SHALL BE MONITORED AT A MINIMUM OF ONE LOCATION AFTER BREAKOUT FROM EACH SHAFT. SEE GENERAL NOTE 5, DWG. GT-1001. THE LOCATIONS OF THE CROSS SECTIONS SHOWN ON THE DRAWINGS SHALL BE ADJUSTED BASED ON THE DIRECTION OF TUNNELING FROM EACH SHAFT.

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

ALL INFORMATION SHOWN ON THIS DRAWING REPRESENTS MANDATORY MINIMUM REQUIREMENTS. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	BP-1101-1108		
DESIGNED BY:	K. LARSSON		
DRAWN BY:	J. JARRETT		
CHECKED BY:	E. LITTON		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

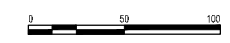
SHEET TITLE

BAY PARK FORCE MAIN

GEOTECHNICAL  
INSTRUMENTATION PLAN

SHEET 8 OF 8

SCALE: AS SHOWN

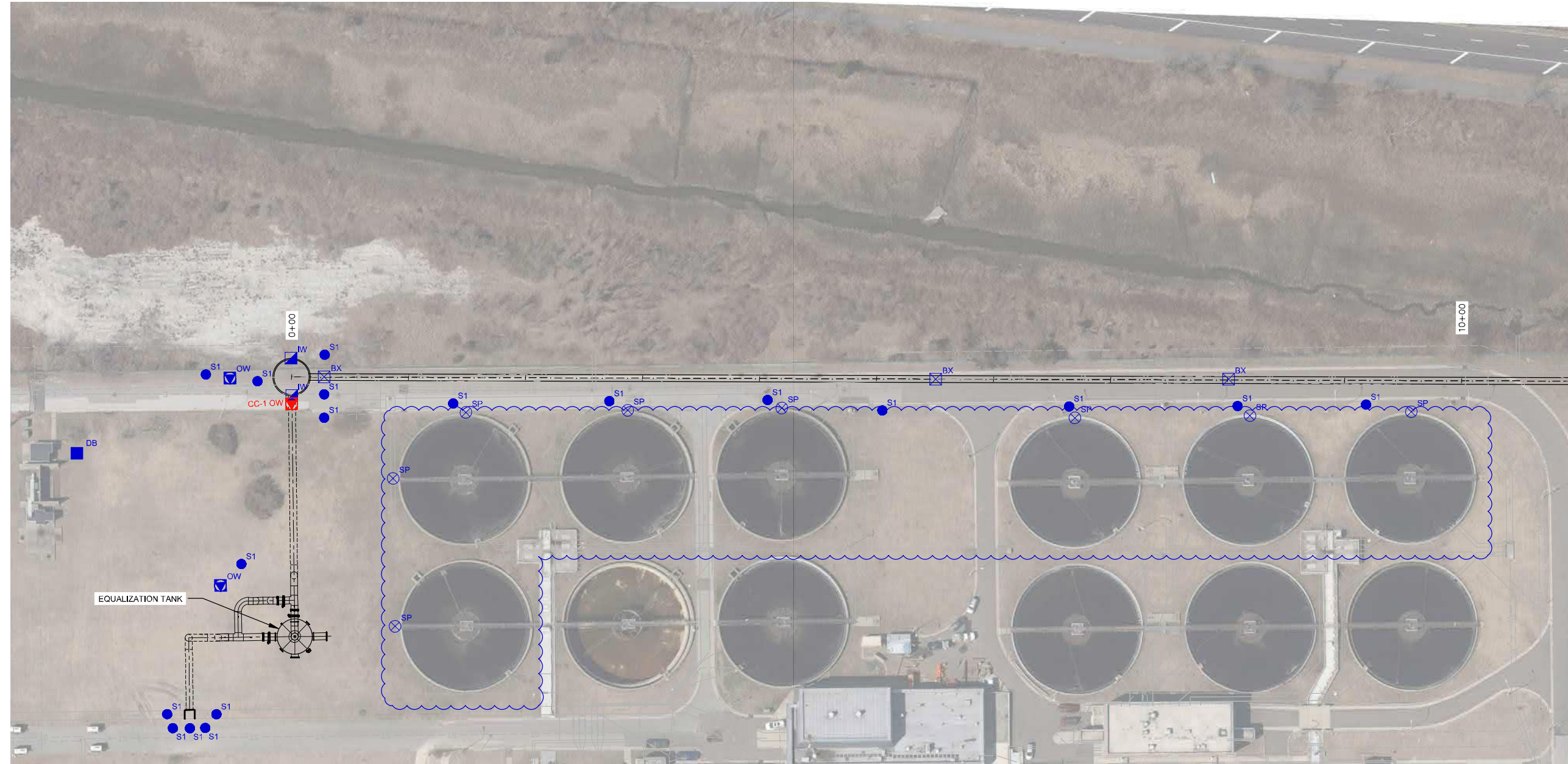


BP-1108

PAGE 129

User: ARBA, Spec: AUS, CS: MDC, File: C:\BIB\MS\WSP\BP-1101-1108.DWG, Scale: 1/12, Sheet: Date: 3/24/2020, Time: 16:39, Plot Date: Add, AI, 3/25/2020, 10:04, Layout: BP-1108





**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

ALL INFORMATION SHOWN ON THIS DRAWING REPRESENTS MANDATORY MINIMUM REQUIREMENTS. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	CC-1101_107		
DESIGNED BY:	K. LARSSON		
DRAWN BY:	J. JARRETT		
CHECKED BY:	E. LITTON		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

CEDAR CREEK FORCE MAIN

GEOTECHNICAL  
INSTRUMENTATION PLAN

SHEET 1 OF 7

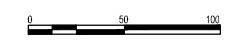
SCALE: AS SHOWN

CC-1101

PAGE 130

**CEDAR CREEK INSTRUMENTATION PLAN**  
1" = 50'-0"

- NOTES:**
- FOR GENERAL NOTES AND LEGEND, SEE DWG. GT-1001.
  - GROUND SETTLEMENT ALONG A CROSS SECTION PERPENDICULAR TO THE FORCE MAIN ALIGNMENT SHALL BE MONITORED AT A MINIMUM OF ONE LOCATION AFTER BREAKOUT FROM EACH SHAFT. SEE GENERAL NOTE 5, DWG. GT-1001. THE LOCATIONS OF THE CROSS SECTIONS SHOWN ON THE DRAWINGS SHALL BE ADJUSTED BASED ON THE DIRECTION OF TUNNELING FROM EACH SHAFT.



User: SNEY V Spec: AUS-NCSMOD File: C:\BIS\WSP-PB-US-PN-420\WSP\_VICTOR-SHE1\1001\26221\CC-1101\_107.DWG Scale: 1/12 Sheet Date: 3/27/2020 Time: 10:41 Plot Date: Shey, Victor, 3/27/2020, 15:22 Layer: CC-1101





**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

ALL INFORMATION SHOWN ON THIS DRAWING REPRESENTS MANDATORY MINIMUM REQUIREMENTS. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	CC-1101_107		
DESIGNED BY:	K. LARSSON		
DRAWN BY:	J. JARRETT		
CHECKED BY:	E. LITTON		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

CEDAR CREEK FORCE MAIN

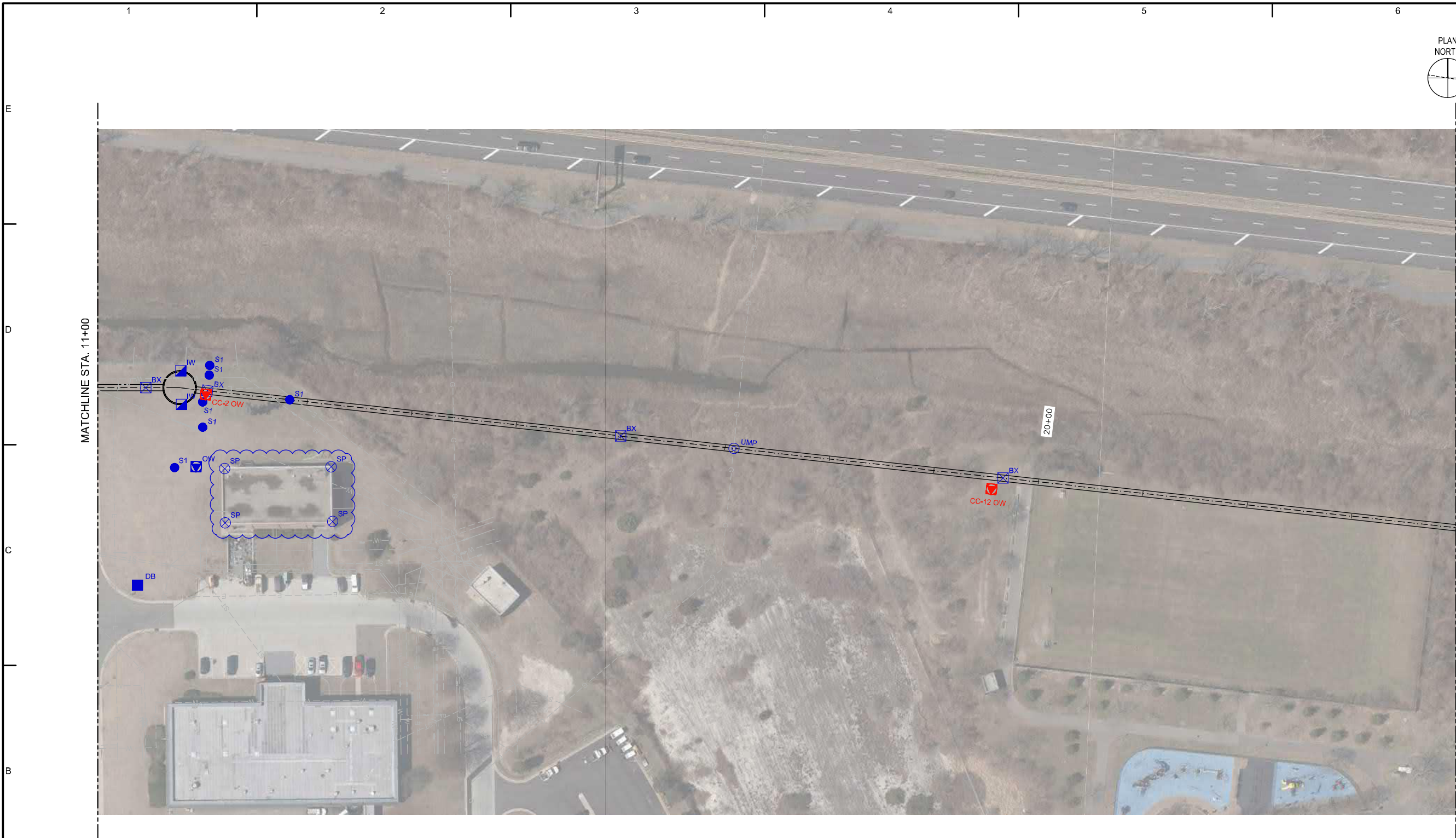
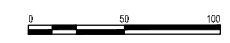
GEOTECHNICAL  
INSTRUMENTATION PLAN

SHEET 2 OF 7

SCALE: AS SHOWN

CC-1102

PAGE 131



**CEDAR CREEK INSTRUMENTATION PLAN**

1" = 50'-0"

- NOTES:**
- FOR GENERAL NOTES AND LEGEND, SEE DWG. GT-1001.
  - GROUND SETTLEMENT ALONG A CROSS SECTION PERPENDICULAR TO THE FORCE MAIN ALIGNMENT SHALL BE MONITORED AT A MINIMUM OF ONE LOCATION AFTER BREAKOUT FROM EACH SHAFT. SEE GENERAL NOTE 5, DWG. GT-1001. THE LOCATIONS OF THE CROSS SECTIONS SHOWN ON THE DRAWINGS SHALL BE ADJUSTED BASED ON THE DIRECTION OF TUNNELING FROM EACH SHAFT.

User: ARBA, Spec: AUS, USGS: MOD File: C:\BIBS\USGS-CR-107-DWG Scale: 1:12 Sheet Date: 02/24/2020 Time: 16:37 Plot Date: Add. At: 03/26/2020 12:06 Layout: CC-1102





**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

ALL INFORMATION SHOWN ON THIS DRAWING REPRESENTS MANDATORY MINIMUM REQUIREMENTS. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	CC-1101_107		
DESIGNED BY:	K. LARSSON		
DRAWN BY:	J. JARRETT		
CHECKED BY:	E. LITTON		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

CEDAR CREEK FORCE MAIN

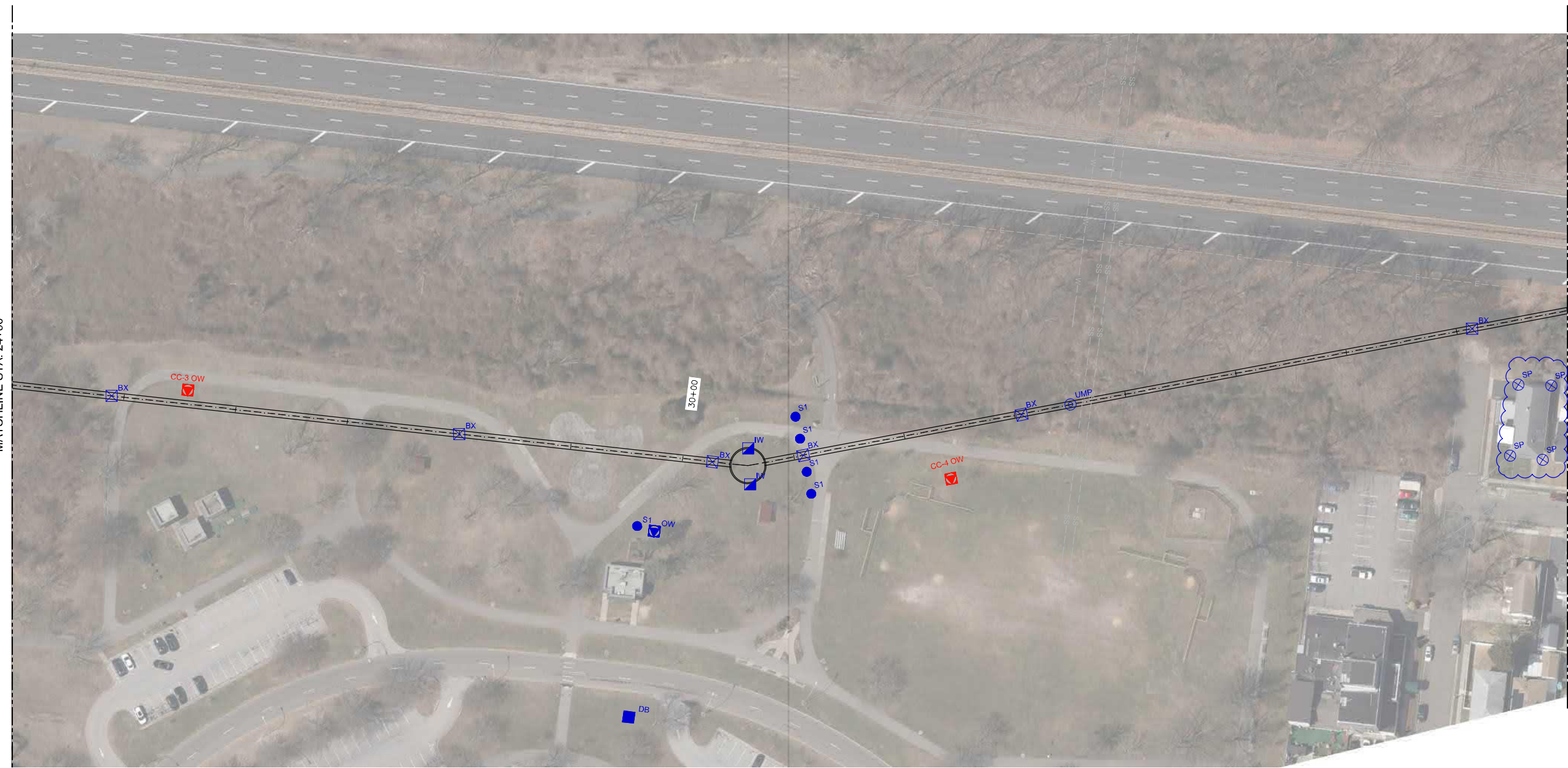
GEOTECHNICAL  
INSTRUMENTATION PLAN

SHEET 3 OF 7

SCALE: AS SHOWN

CC-1103

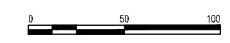
PAGE 132



**CEDAR CREEK INSTRUMENTATION PLAN**

1" = 50'-0"

- NOTES:**
- FOR GENERAL NOTES AND LEGEND, SEE DWG. GT-1001.
  - GROUND SETTLEMENT ALONG A CROSS SECTION PERPENDICULAR TO THE FORCE MAIN ALIGNMENT SHALL BE MONITORED AT A MINIMUM OF ONE LOCATION AFTER BREAKOUT FROM EACH SHAFT. SEE GENERAL NOTE 5, DWG. GT-1001. THE LOCATIONS OF THE CROSS SECTIONS SHOWN ON THE DRAWINGS SHALL BE ADJUSTED BASED ON THE DIRECTION OF TUNNELING FROM EACH SHAFT.
  - EXISTING OBSERVATION WELL CC-9 OW LOCATED AT APPROXIMATELY STA. 32+84, OFFSET 1014 FEET FROM THE CENTERLINE OF THE FORCE MAIN ALIGNMENT SHALL BE ABANDONED IN ACCORDANCE WITH REQUIREMENTS OF SPECIFICATION SECTION 02495.

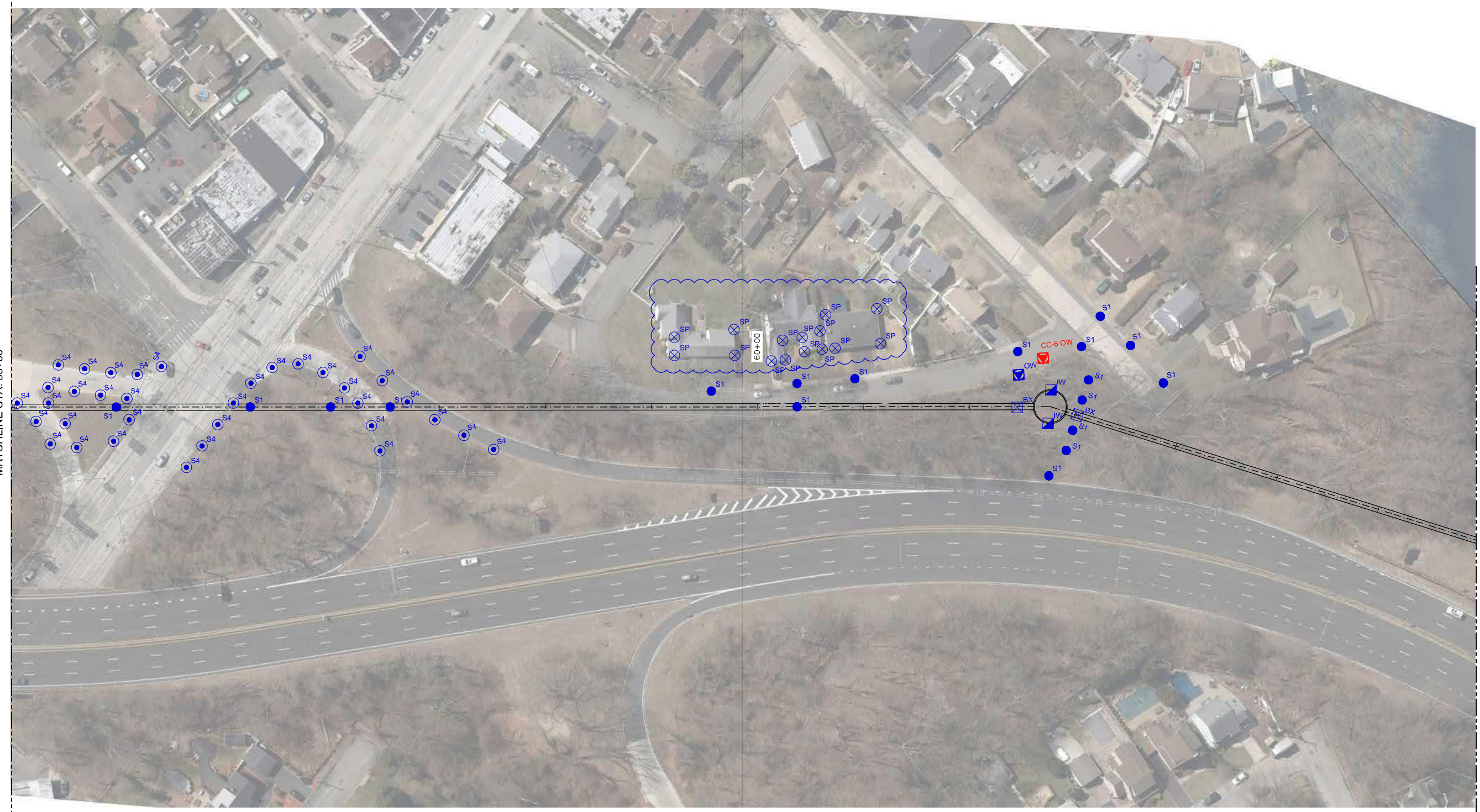


User: ARBA, Spec: AUS, CS: MOD, File: C:\BIB\GIS\WSP-CR-107\WSP-CR-107\DWG Scale: 1:12, Sheet Date: 02/2020, Time: 16:37, Plot Date: Add, At: 03/25/2020, 12:06, Layout: CC-103









**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

ALL INFORMATION SHOWN ON THIS DRAWING REPRESENTS MANDATORY MINIMUM REQUIREMENTS. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	CC-1101_107		
DESIGNED BY:	K. LARSSON		
DRAWN BY:	J. JARRETT		
CHECKED BY:	E. LITTON		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

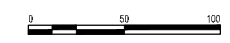
SHEET TITLE

CEDAR CREEK FORCE MAIN

GEOTECHNICAL  
INSTRUMENTATION PLAN

SHEET 5 OF 7

SCALE: AS SHOWN



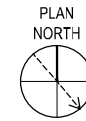
**CEDAR CREEK INSTRUMENTATION PLAN**

1" = 50'-0"

- NOTES:**
- FOR GENERAL NOTES AND LEGEND, SEE DWG. GT-001.
  - GROUND SETTLEMENT ALONG A CROSS SECTION PERPENDICULAR TO THE FORCE MAIN ALIGNMENT SHALL BE MONITORED AT A MINIMUM OF ONE LOCATION AFTER BREAKOUT FROM EACH SHAFT. SEE GENERAL NOTE 5, DWG. GT-001. THE LOCATIONS OF THE CROSS SECTIONS SHOWN ON THE DRAWINGS SHALL BE ADJUSTED BASED ON THE DIRECTION OF TUNNELING FROM EACH SHAFT.

User: ARBA, Spec: AUS, USGS: MOD File: C:\BIB\USGS\SP-CR-105\PH\WSP\_A1\LAB\ID\01\26221\CC-1101\_107.DWG Scale: 1/12 Sheet Date: 02/20/2020 Time: 16:37 Plot Date: Add. At: 3/25/2020 12:08 Layout: CC-105





### CEDAR CREEK INSTRUMENTATION PLAN

1" = 50'-0"

#### NOTES:

1. FOR GENERAL NOTES AND LEGEND, SEE DWG. GT-H001.
2. GROUND SETTLEMENT ALONG A CROSS SECTION PERPENDICULAR TO THE FORCE MAIN ALIGNMENT SHALL BE MONITORED AT A MINIMUM OF ONE LOCATION AFTER BREAKOUT FROM EACH SHAFT. SEE GENERAL NOTE 5, DWG. GT-H001. THE LOCATIONS OF THE CROSS SECTIONS SHOWN ON THE DRAWINGS SHALL BE ADJUSTED BASED ON THE DIRECTION OF TUNNELING FROM EACH SHAFT.

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

ALL INFORMATION SHOWN ON THIS DRAWING REPRESENTS MANDATORY MINIMUM REQUIREMENTS. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	CC-1101_107		
DESIGNED BY:	K. LARSSON		
DRAWN BY:	J. JARRETT		
CHECKED BY:	E. LITTON		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE  
CEDAR CREEK FORCE MAIN  
  
GEOTECHNICAL  
INSTRUMENTATION PLAN  
  
SHEET 6 OF 7

SCALE: AS SHOWN

CC-1106

PAGE 135



User: ARBDA, Sheet: AUS-CCS1106, File: C:\BIBS\WSP-CR-105-PH-KZ\WSP\_A1\LABID\00176221\CC-1101\_107.DWG, Scale: 1/12 Sheet Date: 02/24/2020, Time: 16:37, Plot Date: Add, At: 03/26/2020, 12:22, Layout: CC-1106





**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

ALL INFORMATION SHOWN ON THIS DRAWING REPRESENTS MANDATORY MINIMUM REQUIREMENTS. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	CC-1101_107		
DESIGNED BY:	K. LARSSON		
DRAWN BY:	J. JARRETT		
CHECKED BY:	E. LITTON		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

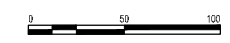
SHEET TITLE

CEDAR CREEK FORCE MAIN

GEOTECHNICAL  
INSTRUMENTATION PLAN

SHEET 7 OF 7

SCALE: AS SHOWN



**CEDAR CREEK INSTRUMENTATION PLAN**

1" = 50'-0"

- NOTES:**
- FOR GENERAL NOTES AND LEGEND, SEE DWG. GT-1001.
  - GROUND SETTLEMENT ALONG A CROSS SECTION PERPENDICULAR TO THE FORCE MAIN ALIGNMENT SHALL BE MONITORED AT A MINIMUM OF ONE LOCATION AFTER BREAKOUT FROM EACH SHAFT. SEE GENERAL NOTE 5, DWG. GT-1001. THE LOCATIONS OF THE CROSS SECTIONS SHOWN ON THE DRAWINGS SHALL BE ADJUSTED BASED ON THE DIRECTION OF TUNNELING FROM EACH SHAFT.

User: ARBDA\_Spec: AUS\CS\100107\_107.DWG Scale: 1:12 Sheet Date: 02/24/2020 Time: 16:37 Plot Date: Add. At: 02/25/2020 12:32 Layout: CC-107







**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	BP-S505		
DESIGNED BY:	X. ZONG		
DRAWN BY:	R. CAESAR		
CHECKED BY:	R. JAIN		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

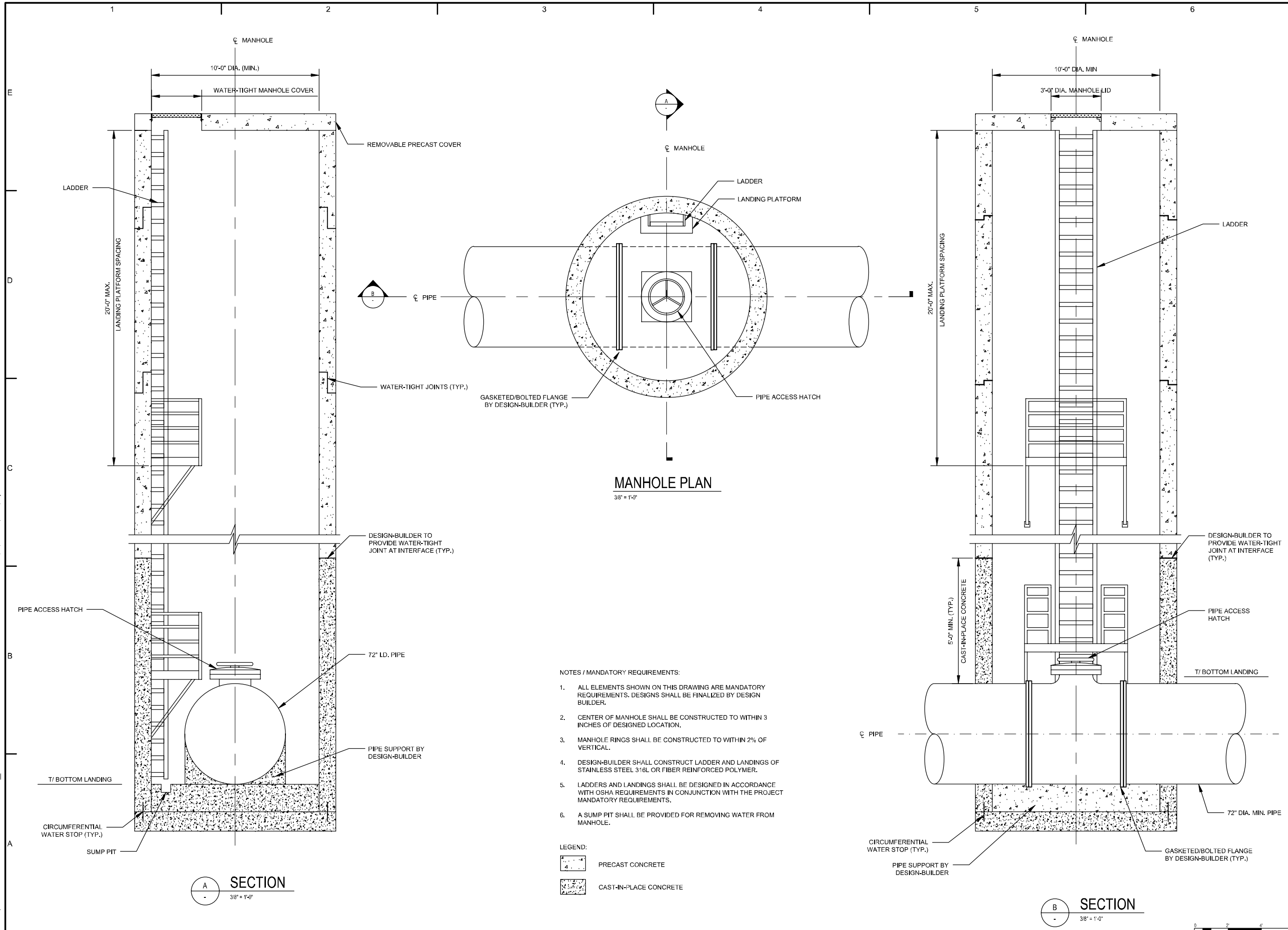
OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE  
BAY PARK & CEDAR CREEK  
FORCE MAIN  
ACCESS MANHOLE PLAN  
AND SECTION

SCALE: AS SHOWN

BP-S505

PAGE 138



**MANHOLE PLAN**

3/8" = 1'-0"

- NOTES / MANDATORY REQUIREMENTS:
1. ALL ELEMENTS SHOWN ON THIS DRAWING ARE MANDATORY REQUIREMENTS. DESIGNS SHALL BE FINALIZED BY DESIGN BUILDER.
  2. CENTER OF MANHOLE SHALL BE CONSTRUCTED TO WITHIN 3 INCHES OF DESIGNED LOCATION.
  3. MANHOLE RINGS SHALL BE CONSTRUCTED TO WITHIN 2% OF VERTICAL.
  4. DESIGN-BUILDER SHALL CONSTRUCT LADDER AND LANDINGS OF STAINLESS STEEL 316L OR FIBER REINFORCED POLYMER.
  5. LADDERS AND LANDINGS SHALL BE DESIGNED IN ACCORDANCE WITH OSHA REQUIREMENTS IN CONJUNCTION WITH THE PROJECT MANDATORY REQUIREMENTS.
  6. A SUMP PIT SHALL BE PROVIDED FOR REMOVING WATER FROM MANHOLE.

- LEGEND:
- PRECAST CONCRETE
  - CAST-IN-PLACE CONCRETE

**SECTION**

3/8" = 1'-0"

**SECTION**

3/8" = 1'-0"



User: ARDA, Sheet: AUS\CS\NOD File: C:\BIB\US\CS\BP-S505\WSP\_A1\BIB\DN\S610\BP-S505.DWG Scale: 1:1 Saved Date: 3/12/2020 Time: 13:44 P6: Date: Add: Al: 3/20/2020, 13:52 Layout: BP-S505



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE: APRIL 2020

PROJECT NO.: PW-S3B116-03CR

FILE NAME: BP-S506

DESIGNED BY: X. ZONG

DRAWN BY: R. CAESAR

CHECKED BY: R. JAIN

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

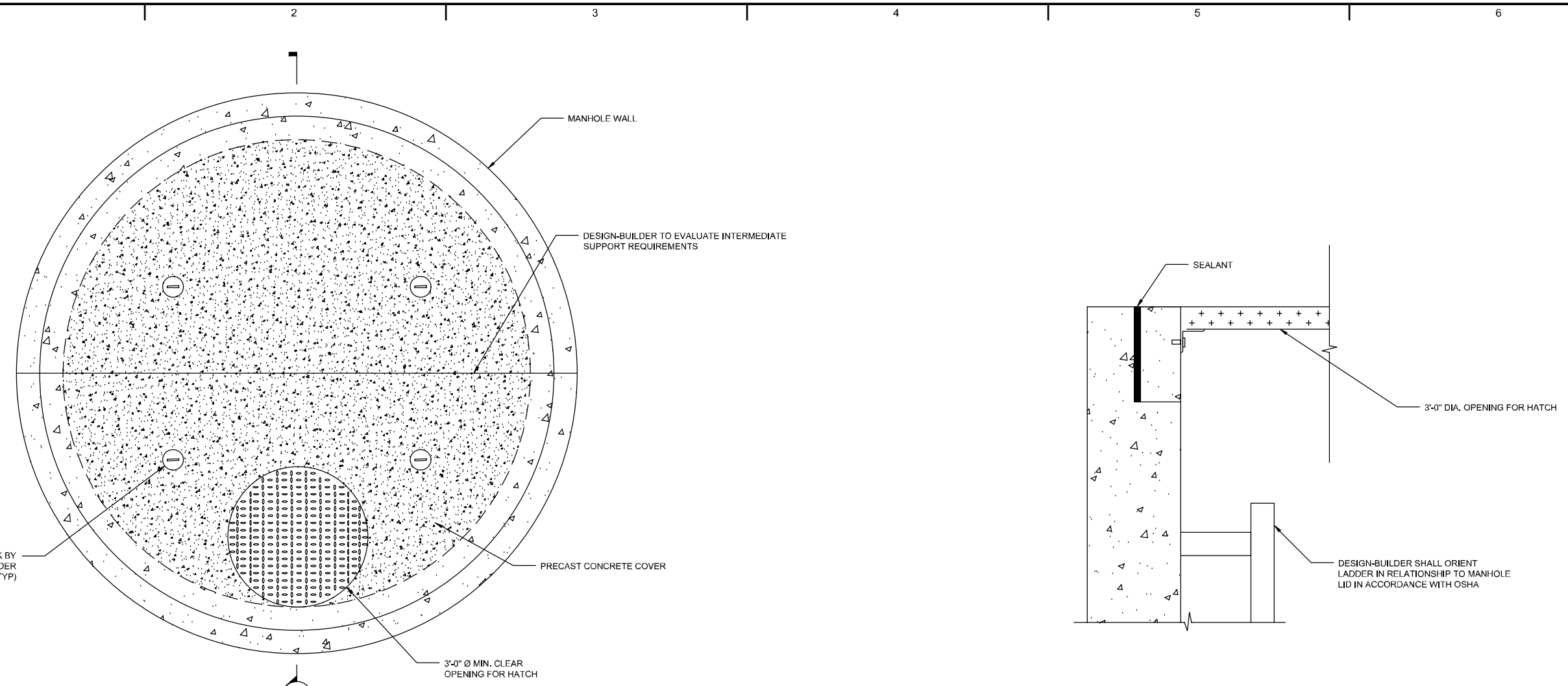
BAY PARK & CEDAR CREEK  
FORCE MAIN

SHAFT  
ACCESS/MANHOLE  
REMOVABLE PRECAST  
CONCRETE COVER

SCALE: AS SHOWN

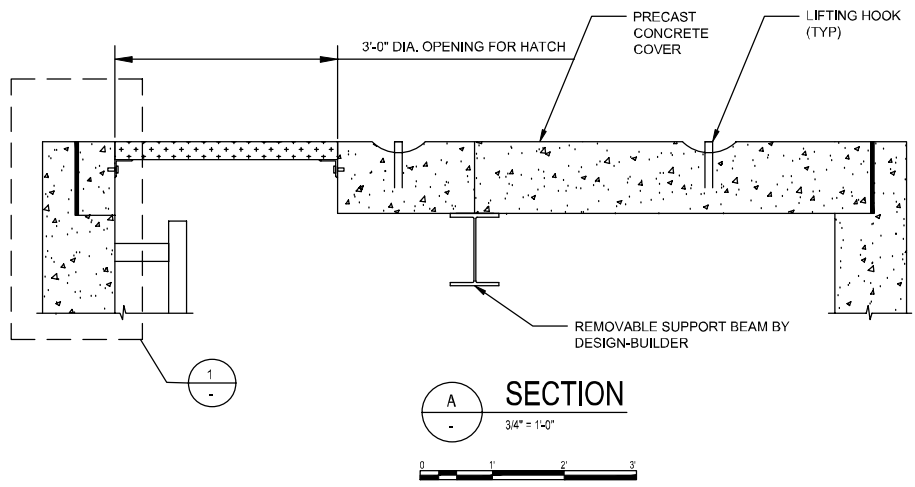
BP-S506

PAGE 139



**MANHOLE COVER PLAN**  
3/4" = 1'-0"

**DETAIL - CONCRETE CURB**  
1 1/2" = 1'-0"



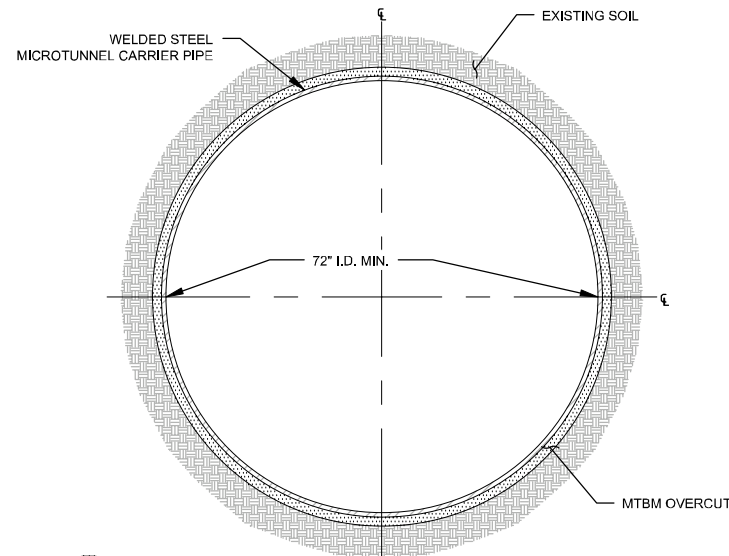
**SECTION**  
3/4" = 1'-0"

- NOTES / MANDATORY REQUIREMENTS:
- ALL ELEMENTS SHOWN ON THIS DRAWING ARE MANDATORY REQUIREMENTS. DESIGNS SHALL BE FINALISED BY DESIGN BUILDER.
  - PANELS SHALL BE DESIGNED FOR AASHTO HS-20 WHEEL LOADS BUT NOT LESS THAN 600 PSF LIVE LOAD.
  - SEALANT SHALL BE APPLIED ALL AROUND THE PERIMETER OF THE MANHOLE COVER AND ALONG ANY INTERMEDIATE POINTS.
  - DESIGN-BUILDER TO PROVIDE STAINLESS STEEL LIFTING HOOKS.

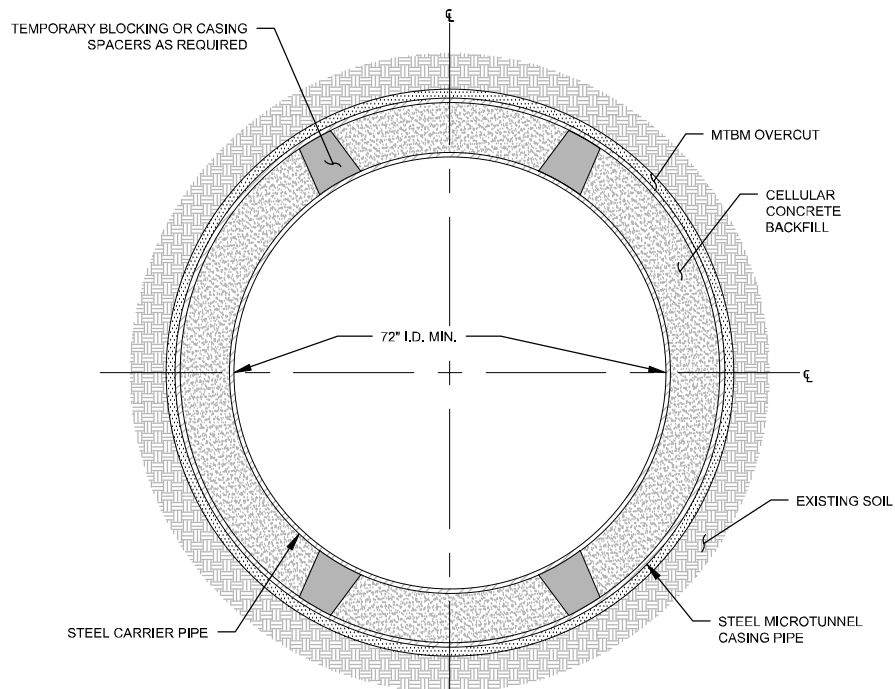
User: AIBDA-Shera-AUS-ACS-MOD File: C:\BMS\WSP-CP-UP\WSP-AL\LABID\DWG\BP-S506.DWG Scale: 1:1 Saved Date: 2/15/2019 Time: 14:33 Plot Date: 04/13/2020 13:59 Layout: BP-S506



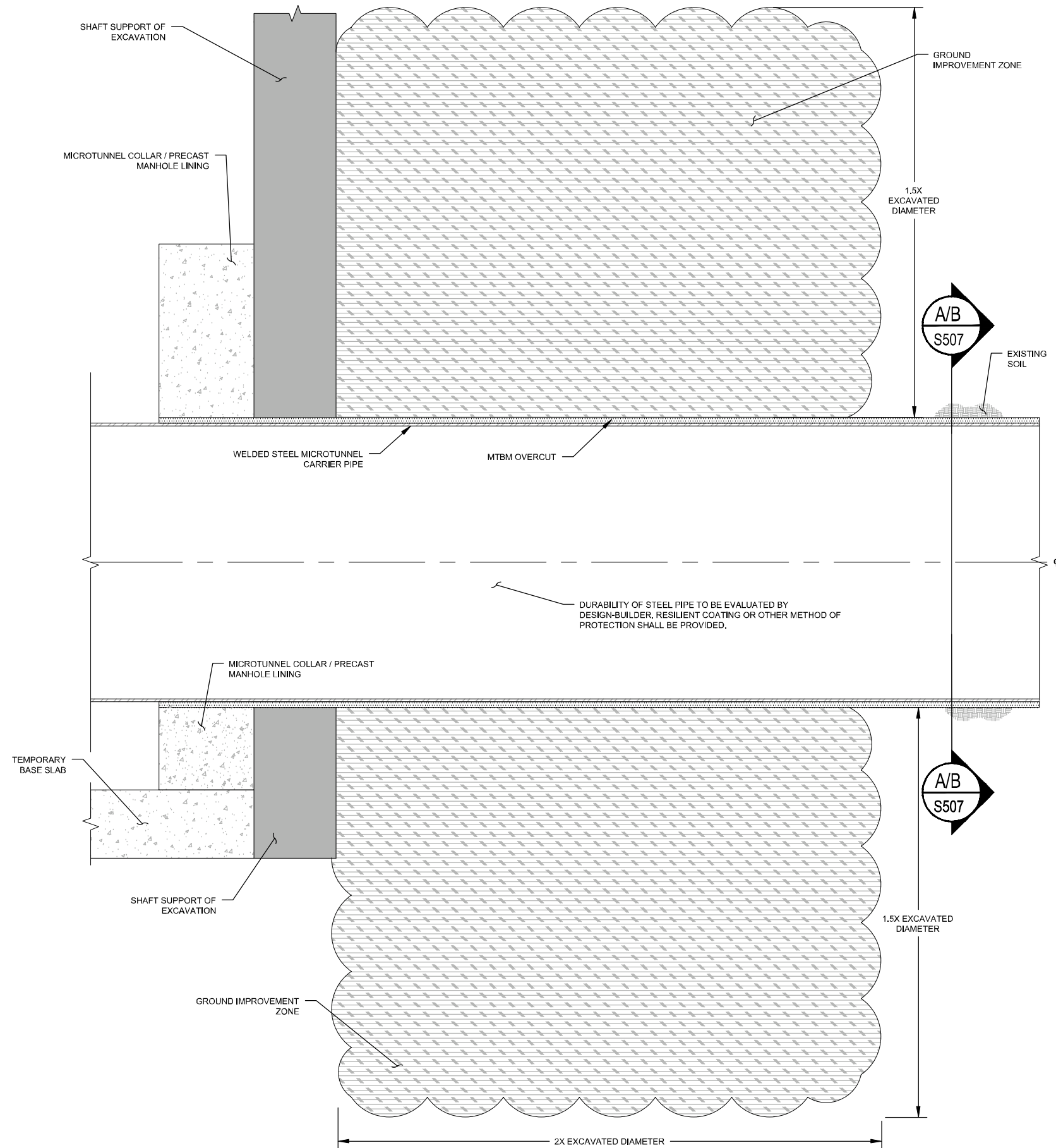
- NOTES:**
1. TYPICAL ONE-PASS LAUNCH SHAFT MICROTUNNEL INTERFACE DEPICTS THE ONE-PASS MICROTUNNEL OPTION.
  2. CARRIER PIPE SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 02801 - STEEL PIPE FOR MICROTUNNELING.
  3. INSTRUMENTATION EQUIPMENT, MATERIALS, FREQUENCY OF MONITORING, AND REPORTING OF RESULTS SHALL BE IN ACCORDANCE WITH SECTION 02495 - GEOTECHNICAL INSTRUMENTATION AND MONITORING.
  4. SHAFT EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 02167 - SLURRY WALL CONSTRUCTION OR SECTION 02171 - SECANT PILE WALLS.
  5. MICROTUNNELING SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 02739 - MICROTUNNELING.



**A**  
ONE-PASS MICROTUNNEL SECTION  
SCALE: NTS



**B**  
TWO-PASS MICROTUNNEL SECTION  
SCALE: NTS



TYPICAL ONE-PASS LAUNCH SHAFT MICROTUNNEL INTERFACE  
SCALE: NTS

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	CP-S507		
DESIGNED BY:	O. EL-QUQA		
DRAWN BY:	K. WILLIAMS		
CHECKED BY:	E. LITTON		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS  
  
OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE  
  
BAY PARK AND CEDAR  
CREEK TREATMENT PLANTS  
  
MICROTUNNEL LINING AND  
SHAFT/TUNNEL INTERFACE

SCALE: NOT TO SCALE

BP-S507

PAGE 140







**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	BP-S102		
DESIGNED BY:	X. ZONG		
DRAWN BY:	R. CAESAR		
CHECKED BY:	R. JAIN		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

BAY PARK FORCE MAIN

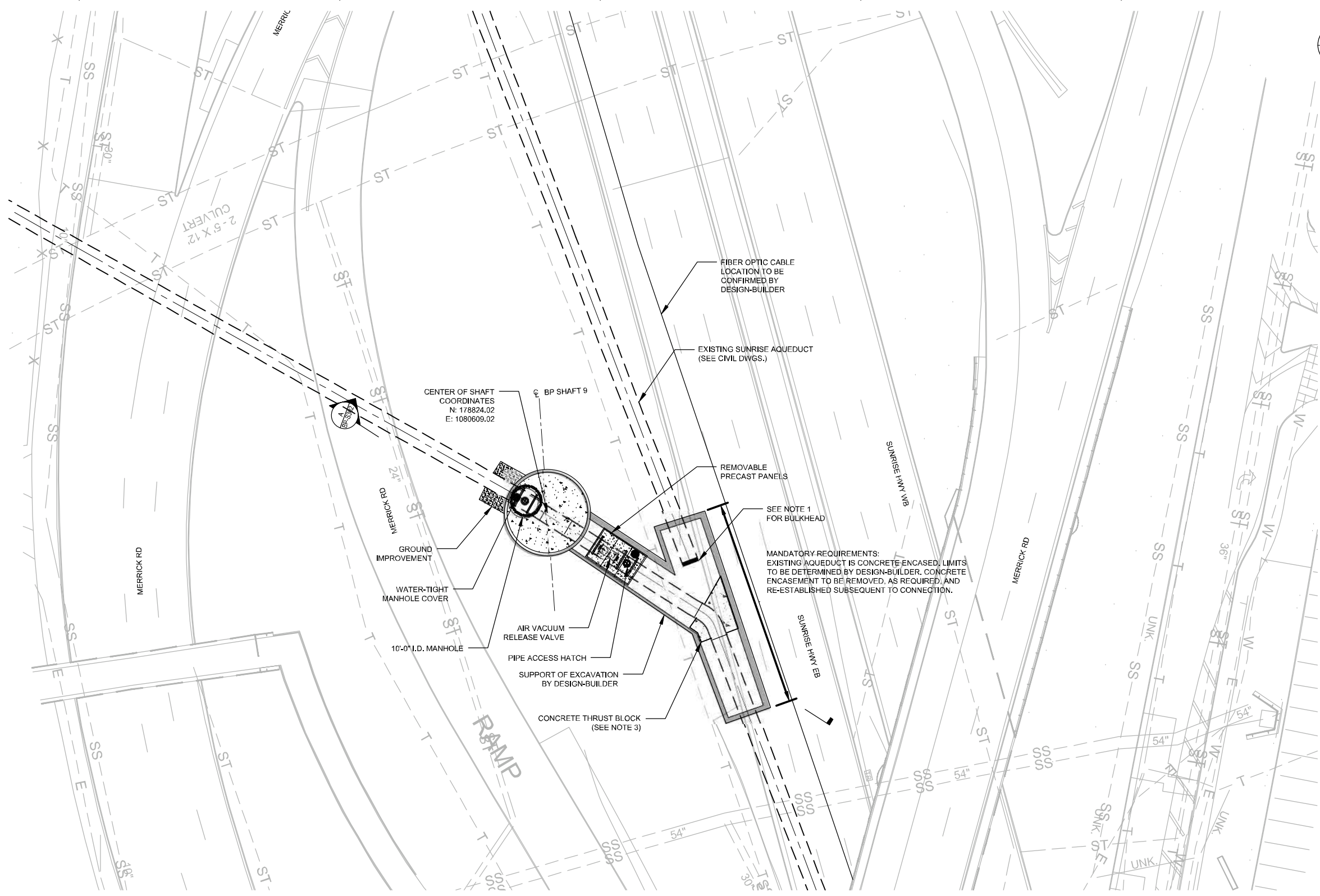
BAY PARK SHAFT 9  
CONNECTION TO SUNRISE  
72" MAIN

PLAN

SCALE: AS SHOWN

**BP-S102**

PAGE 142



**MANDATORY REQUIREMENTS:**  
EXISTING AQUEDUCT IS CONCRETE ENCASED. LIMITS TO BE DETERMINED BY DESIGN-BUILDER. CONCRETE ENCASEMENT TO BE REMOVED, AS REQUIRED, AND RE-ESTABLISHED SUBSEQUENT TO CONNECTION.

**NOTES / MANDATORY REQUIREMENTS:**

- DESIGN-BUILDER TO FULLY SEAL AND PROVIDE BULKHEAD FOR EXISTING SUNRISE AQUEDUCT AT EACH DISCONNECTION LOCATION.
- DESIGN-BUILDER SHALL CONSIDER ACCESS AND MAINTENANCE REQUIREMENTS FOR THE FINAL GRADING AROUND THIS SHAFT. DESIGN-BUILDER SHALL ALLOW FOR PERMANENT TRUCK ACCESS TO REMOVE SHAFT COVER/MANHOLE. PANELS SHALL BE DESIGNED FOR AASHTO HS-20 WHEEL LOADS BUT NOT LESS THAN 600 PSF LIVE LOAD.
- PIPEWORK JOINTS AND BENDS SHALL BE CONSIDERED BY THE DESIGN-BUILDER TO DETERMINE IF ANY REINFORCED CONCRETE THRUST BLOCKS ARE REQUIRED.

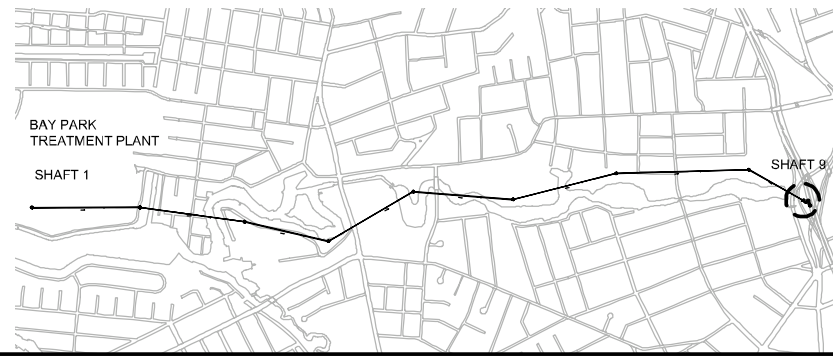
**LEGEND:**

- SUPPORT OF EXCAVATION
- GROUND IMPROVEMENT
- CAST-IN-PLACE

**BAY PARK CONNECTION TO SUNRISE HIGHWAY**



**KEYPLAN**



User: AIBDA-Smca/AUC-ACS/NOCD File: C:\BMS\WSP-CP-UP-M-20\WSP\_A1\LABID\DWG\BP-S102.DWG Scale: 1:1 Saved Date: 2/12/2019 Time: 09:39 Plot Date: Auct. At: 3/2/2020 14:21 Layout: BP-S102







**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	CC-S102		
DESIGNED BY:	X. ZONG		
DRAWN BY:	R. CAESAR		
CHECKED BY:	R. JAIN		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

CEDAR CREEK FORCE MAIN

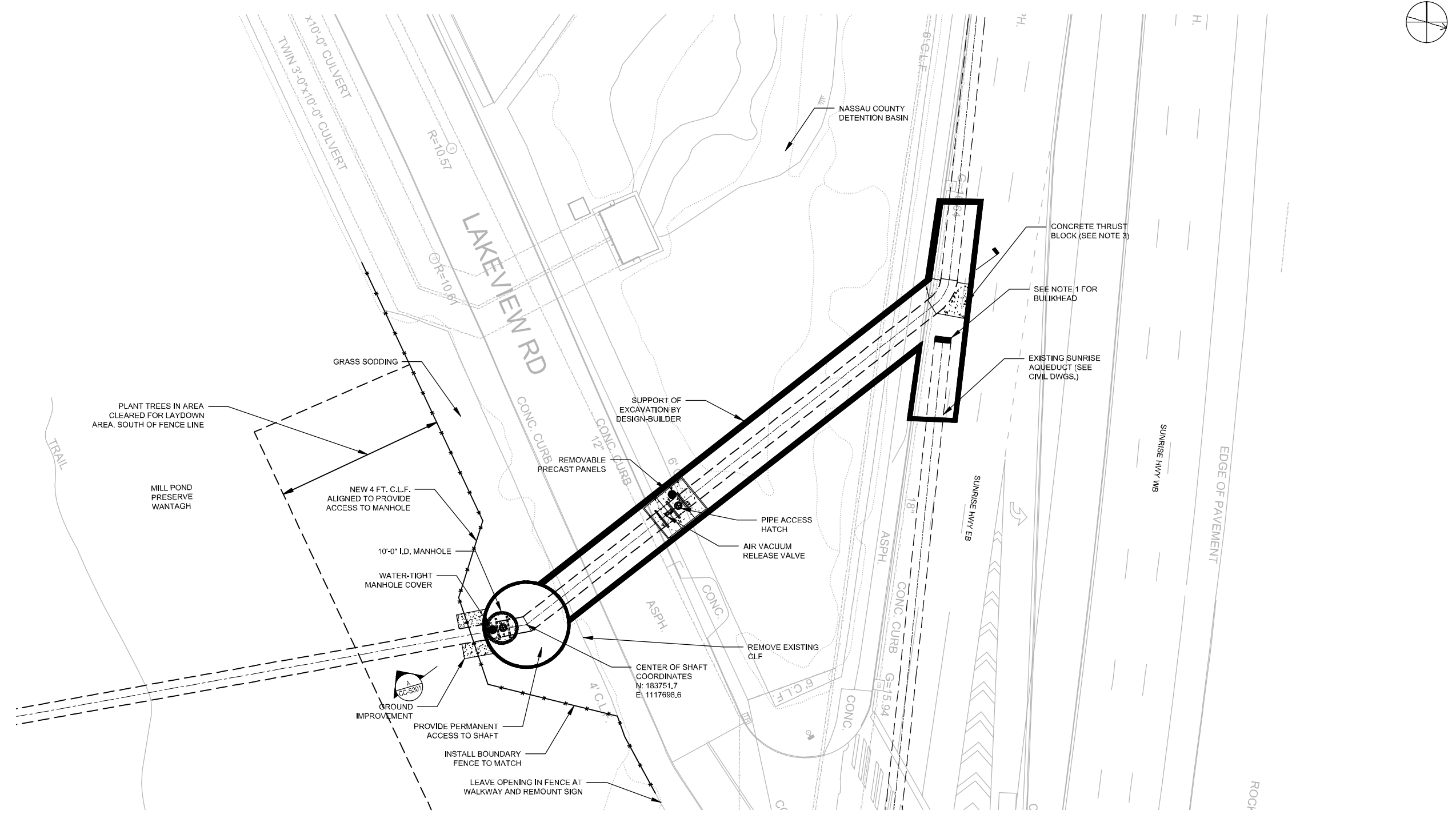
CEDAR CREEK SHAFT 6  
CONNECTION TO SUNRISE  
72" MAIN

PLAN

SCALE: AS SHOWN

CC-S102

PAGE 144



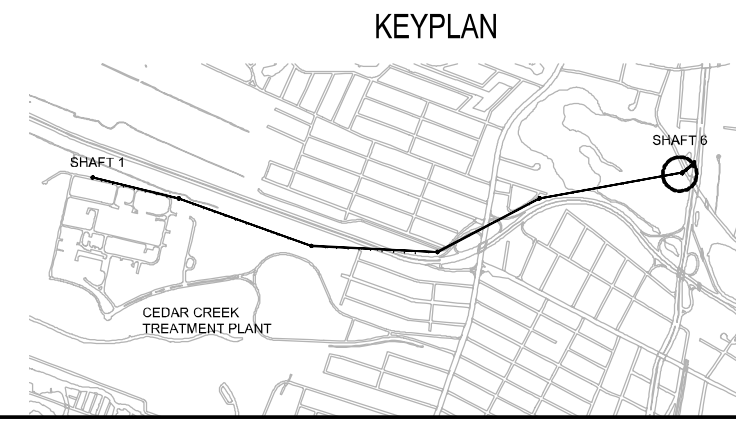
**CEDAR CREEK CONNECTION TO SUNRISE HIGHWAY**



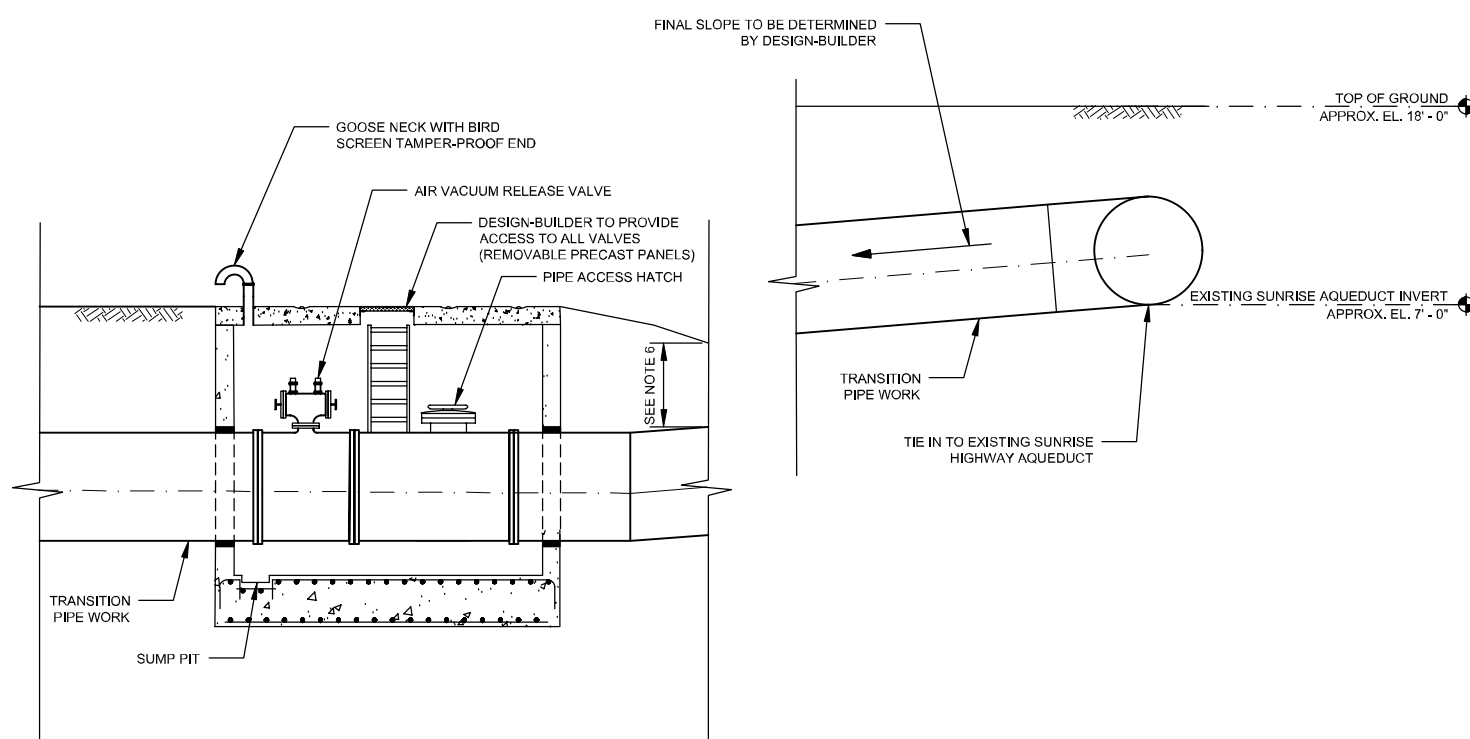
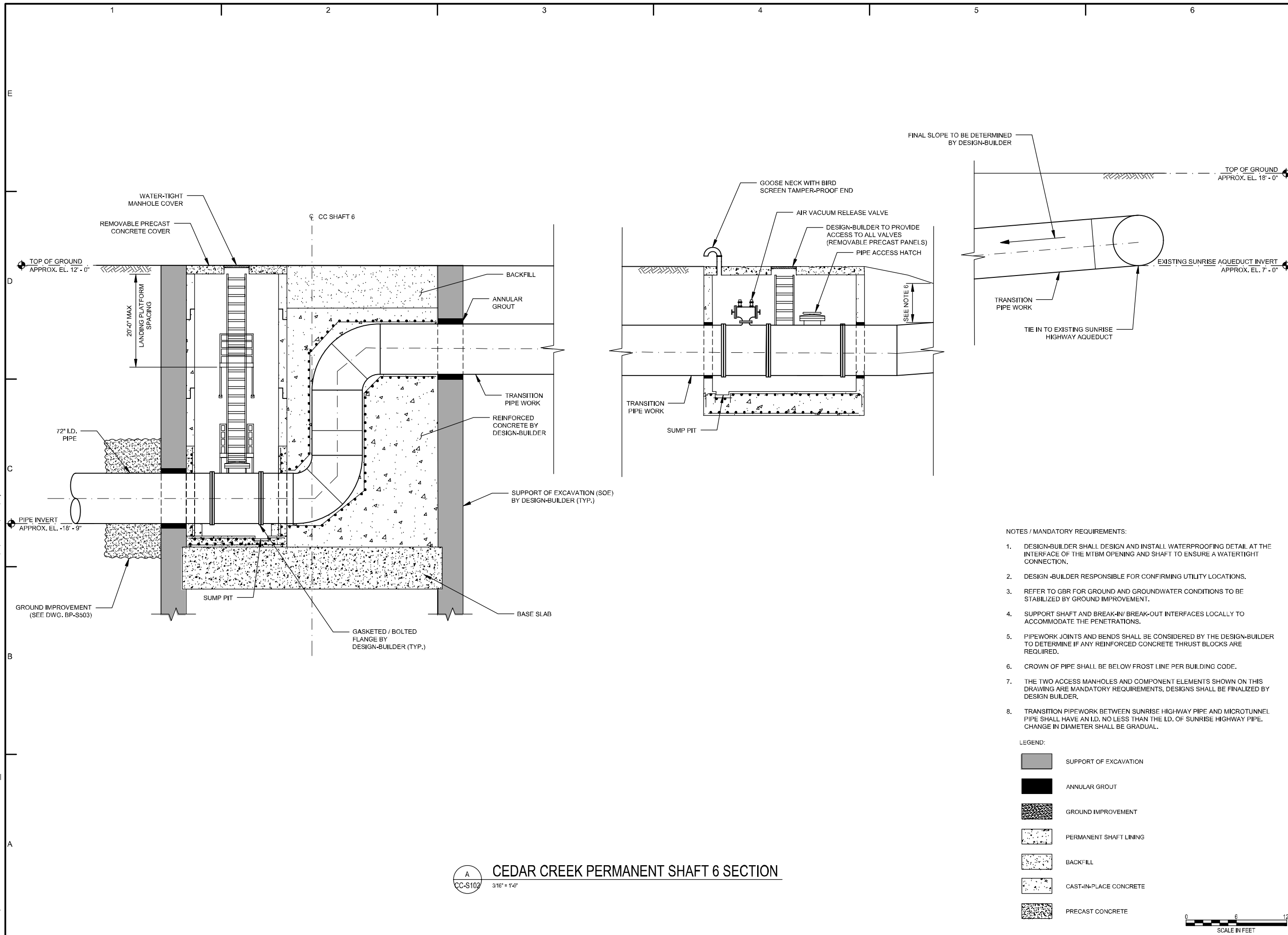
- NOTES / MANDATORY REQUIREMENTS:
- DESIGN-BUILDER TO FULLY SEAL AND PROVIDE BULKHEAD FOR EXISTING SUNRISE AQUEDUCT AT EACH DISCONNECTION LOCATION.
  - DESIGN-BUILDER SHALL CONSIDER ACCESS AND MAINTENANCE REQUIREMENTS FOR THE FINAL GRADING OF THIS SHAFT. DESIGN-BUILDER SHALL ALLOW FOR PERMANENT TRUCK ACCESS TO REMOVE SHAFT COVER/MANHOLE. PANELS SHALL BE DESIGNED FOR AASHTO HS-20 WHEEL LOADS BUT NOT LESS THAN 600 PSF LIVE LOAD.
  - PIPEWORK JOINTS AND BENDS SHALL BE CONSIDERED BY THE DESIGN-BUILDER TO DETERMINE IF ANY REINFORCED CONCRETE THRUST BLOCKS ARE REQUIRED.

LEGEND:

	SUPPORT OF EXCAVATION
	GROUND IMPROVEMENT
	PRECAST CONCRETE



User: USRC647708 \$mech/AUS-VCS/MSD/Fire/C/UBMS/USP-PB-US-PA-02/WSP\_PANOR/C/LESHAR/D/S68189CC-S102.DWG Scale: 1/4"=20'-0" Plot Date: 04/20/2020 Time: 10:48 Pk: Date: Caesar, Rabin: 4/16/2020 15:08 Layout: CC-S102



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**  
DATE: APRIL 2020  
PROJECT NO.: PW-S3B116-03CR  
FILE NAME: CC-S301  
DESIGNED BY: X. ZONG  
DRAWN BY: R. CAESAR  
CHECKED BY: R. JAIN

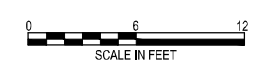
NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS  
OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE  
CEDAR CREEK FORCE MAIN  
CEDAR CREEK  
SHAFT 6  
CONNECTION TO  
SUNRISE 72" MAIN  
SECTION

SCALE: AS SHOWN  
CC-S301  
PAGE 145

- NOTES / MANDATORY REQUIREMENTS:
- DESIGN-BUILDER SHALL DESIGN AND INSTALL WATERPROOFING DETAIL AT THE INTERFACE OF THE MTBM OPENING AND SHAFT TO ENSURE A WATERTIGHT CONNECTION.
  - DESIGN-BUILDER RESPONSIBLE FOR CONFIRMING UTILITY LOCATIONS.
  - REFER TO GBR FOR GROUND AND GROUNDWATER CONDITIONS TO BE STABILIZED BY GROUND IMPROVEMENT.
  - SUPPORT SHAFT AND BREAK-IN/ BREAK-OUT INTERFACES LOCALLY TO ACCOMMODATE THE PENETRATIONS.
  - PIPEWORK JOINTS AND BENDS SHALL BE CONSIDERED BY THE DESIGN-BUILDER TO DETERMINE IF ANY REINFORCED CONCRETE THRUST BLOCKS ARE REQUIRED.
  - CROWN OF PIPE SHALL BE BELOW FROST LINE PER BUILDING CODE.
  - THE TWO ACCESS MAN-HOLES AND COMPONENT ELEMENTS SHOWN ON THIS DRAWING ARE MANDATORY REQUIREMENTS. DESIGNS SHALL BE FINALIZED BY DESIGN BUILDER.
  - TRANSITION PIPEWORK BETWEEN SUNRISE HIGHWAY PIPE AND MICROTUNNEL PIPE SHALL HAVE AN I.D. NO LESS THAN THE I.D. OF SUNRISE HIGHWAY PIPE. CHANGE IN DIAMETER SHALL BE GRADUAL.

- LEGEND:
- SUPPORT OF EXCAVATION
  - ANNULAR GROUT
  - GROUND IMPROVEMENT
  - PERMANENT SHAFT LINING
  - BACKFILL
  - CAST-IN-PLACE CONCRETE
  - PRECAST CONCRETE



**A CEDAR CREEK PERMANENT SHAFT 6 SECTION**  
CC-S102 3/16" = 1'-0"

User:ARBA, Spec:AUS\CS102C File:C:\BIS\WSP\CS-CR-102\WSP\_A1\LABID\DWG\6160\CC-S301.DWG Scale:1:1 SavedDate:1/31/2020 Time:14:58 Plo Date: April 3, 2020 15:21 Layout:CC-S301





PRELIMINARY  
NOT FOR  
CONSTRUCTION

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

FINAL DESIGN CRITERIA PACKAGE			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	CC-S501		
DESIGNED BY:	X. ZONG		
DRAWN BY:	R. CAESAR		
CHECKED BY:	R. JAIN		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

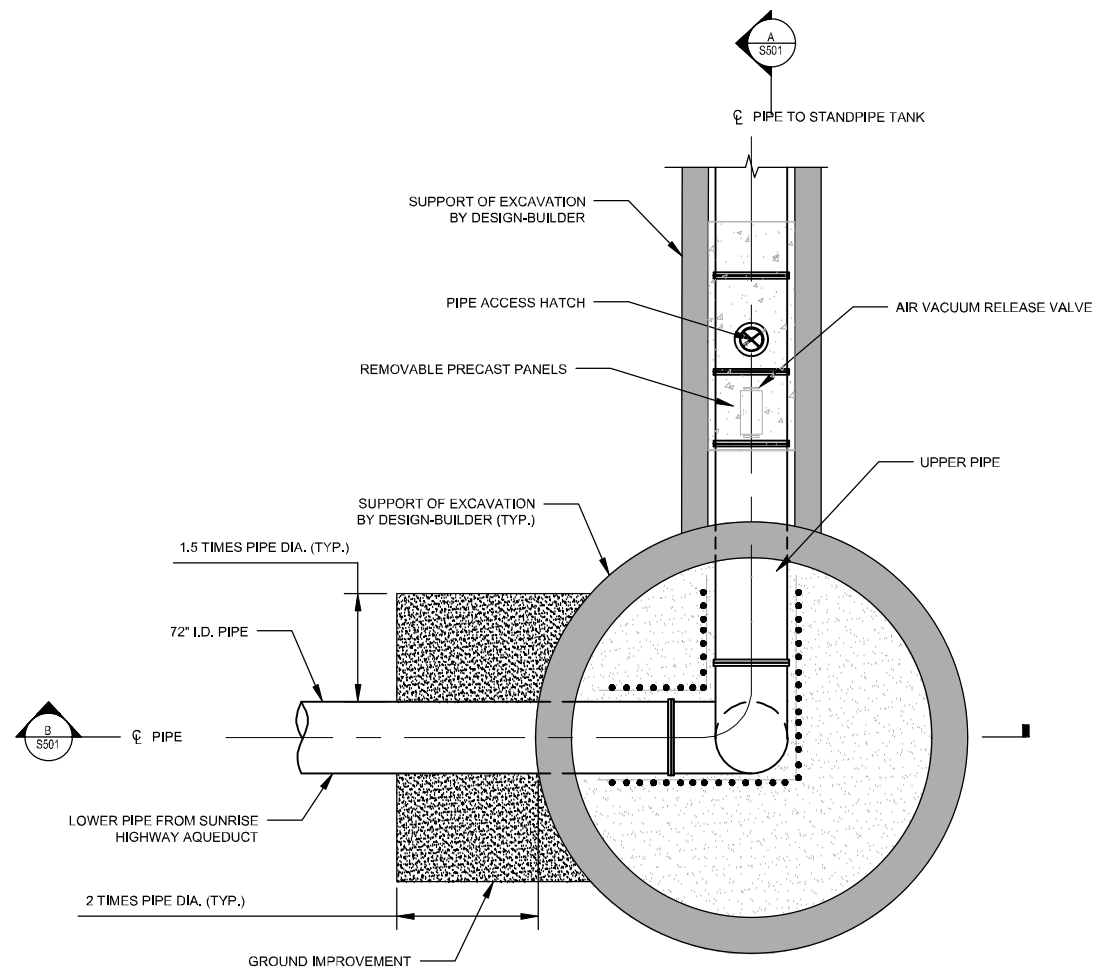
SHEET TITLE  
CEDAR CREEK FORCE MAIN

CEDAR CREEK  
SHAFT 1

SCALE:  
AS SHOWN

CC-S501








PAGE 146



UPPER SHAFT PLAN

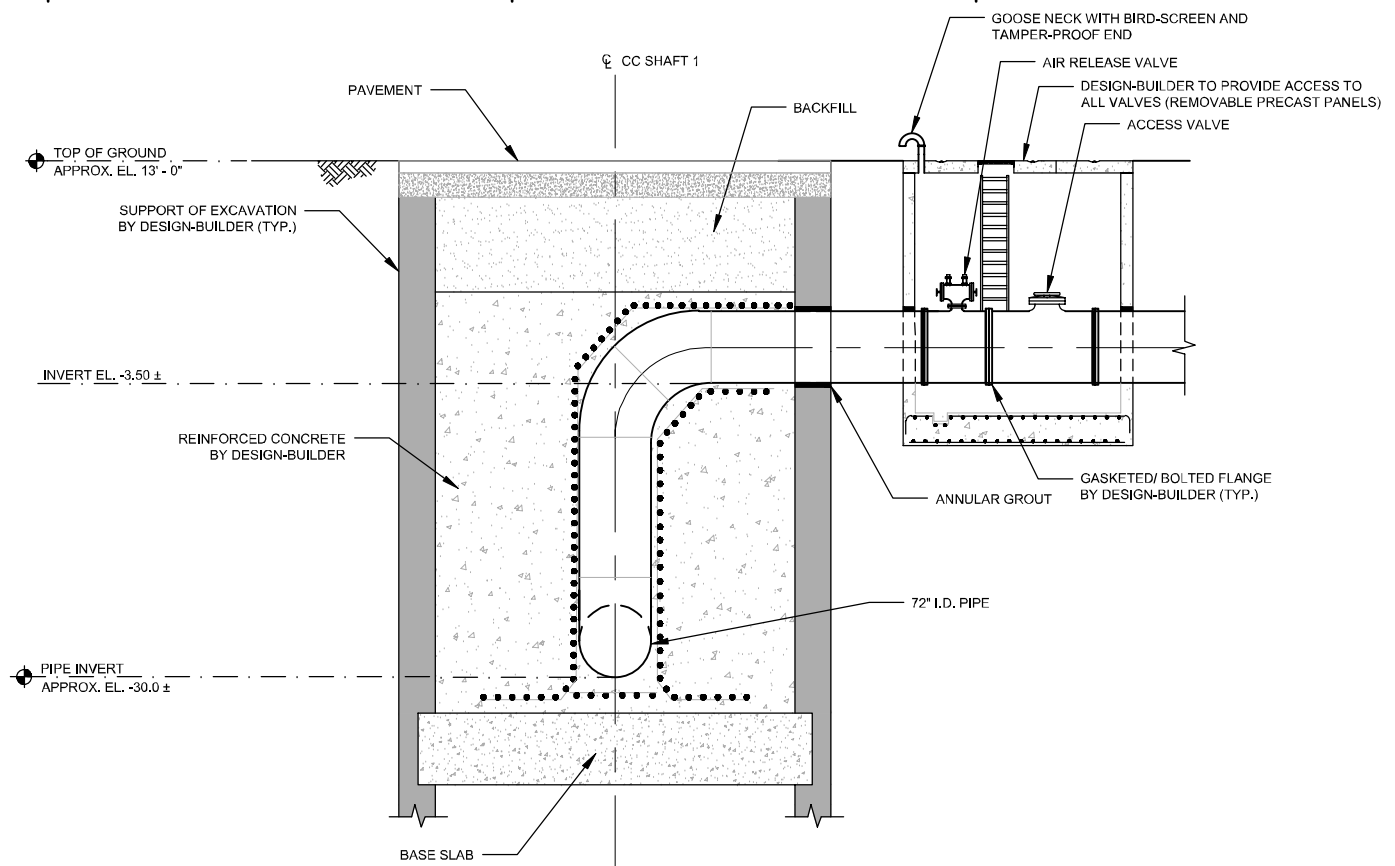
1/8" = 1'-0"

LEGEND:

-  SUPPORT OF EXCAVATION
-  ANNULAR GROUT
-  GROUND IMPROVEMENT
-  PERMANENT SHAFT LINING
-  BACKFILL
-  CAST-IN-PLACE CONCRETE
-  PRECAST CONCRETE

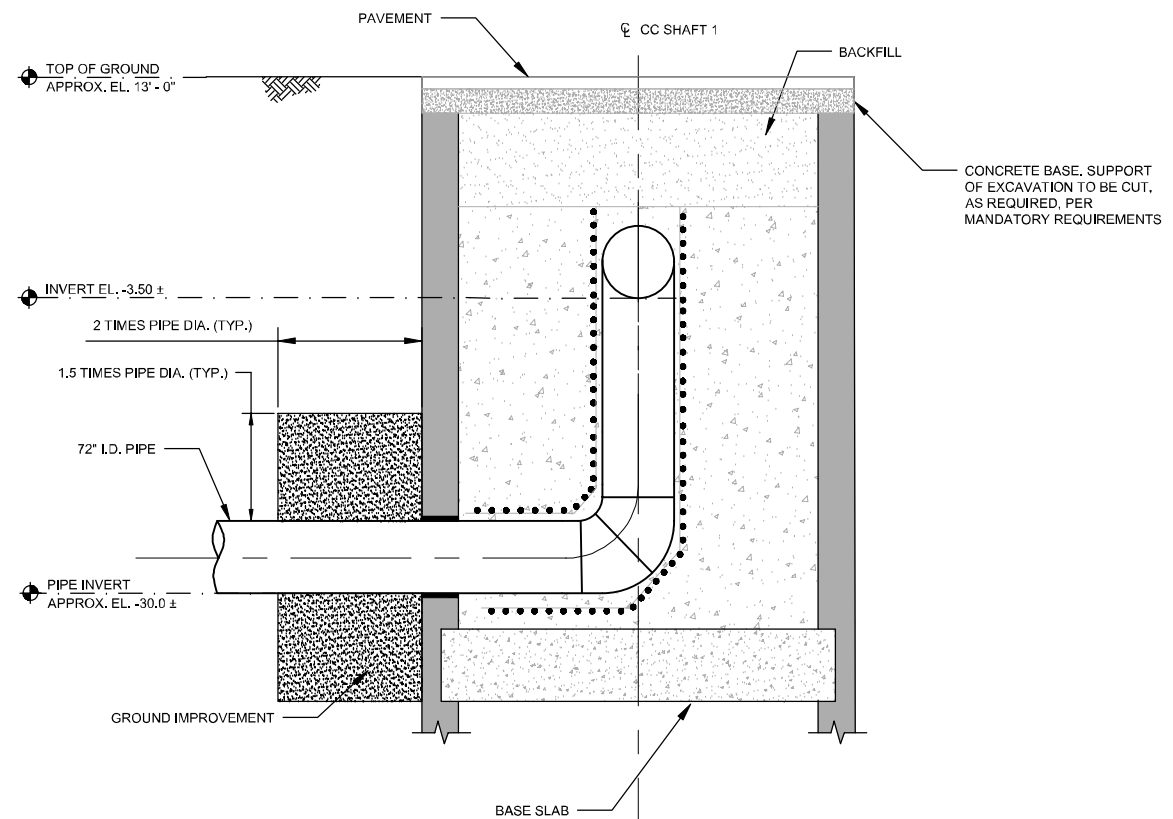
NOTE / MANDATORY REQUIREMENTS:

1. PIPEWORK JOINTS AND BENDS SHALL BE CONSIDERED BY THE DESIGN-BUILDER TO DETERMINE IF ANY REINFORCED CONCRETE THRUST BLOCKS ARE REQUIRED.
2. ACCESS MANHOLE AND COMPONENT ELEMENTS ARE MANDATORY REQUIREMENTS. DESIGNS SHALL BE FINALISED BY DESIGN BUILDER.



SECTION A

1/8" = 1'-0"



SECTION B

1/8" = 1'-0"

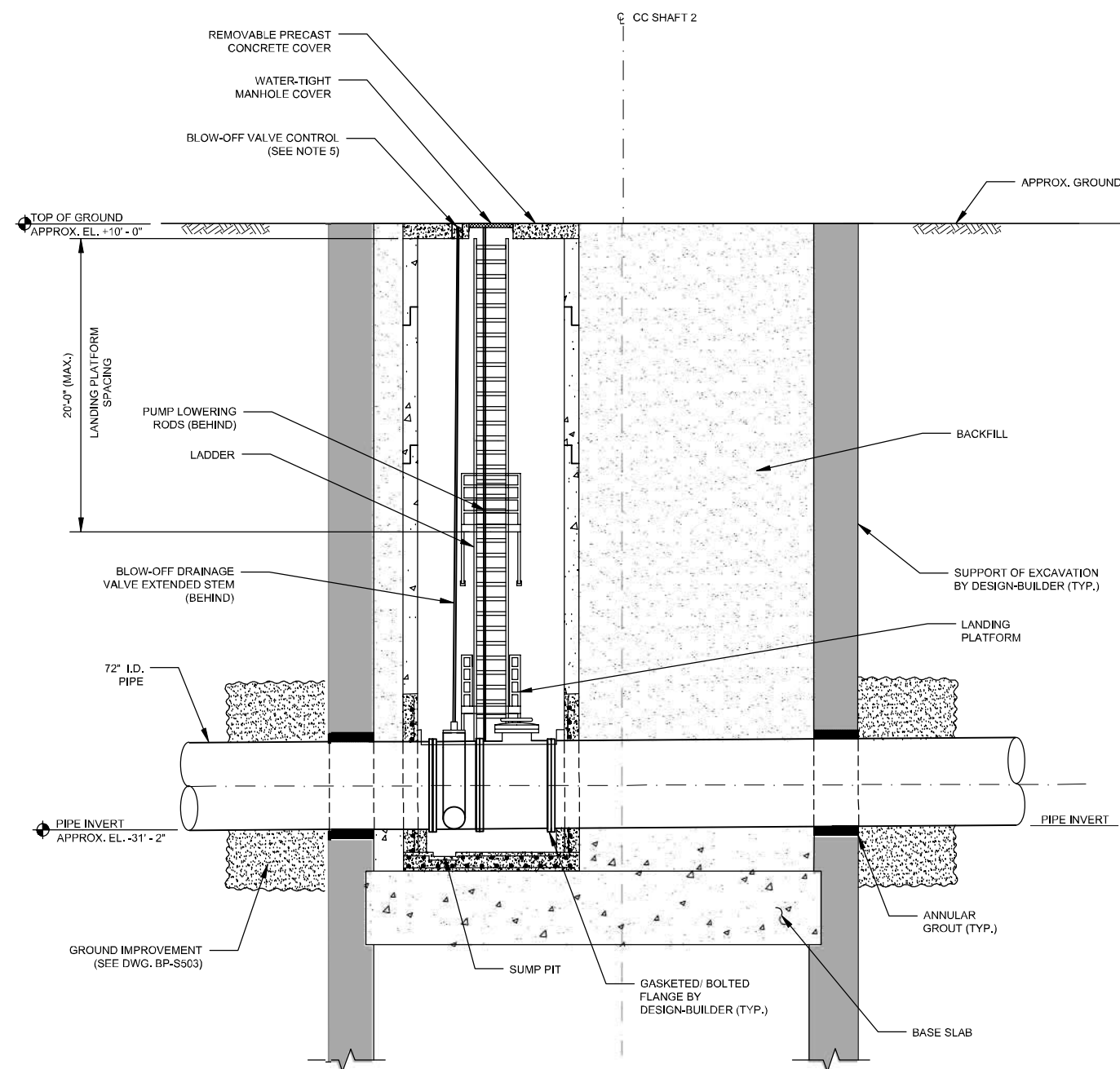


\\nas01\proj\16116\16116-03CR\DWG\CC-S501.DWG Section: 1: Saved Date: 3/29/2020 Time: 09:20 Plot Date: Monday, June 3, 2020 09:47 Layout: S501

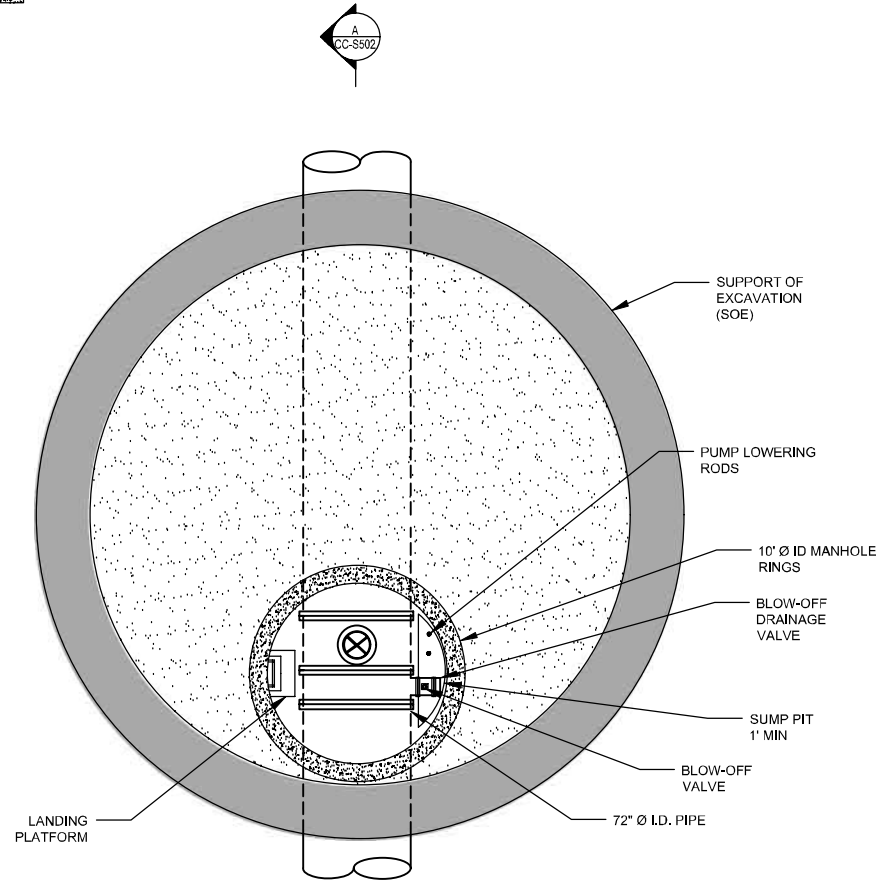


- NOTES / MANDATORY REQUIREMENTS:
1. DESIGN-BUILDER SHALL DESIGN AND INSTALL WATERPROOFING DETAIL AT THE INTERFACE OF THE MTBM OPENING AND SHAFT TO ENSURE A WATERTIGHT CONNECTION. DETAIL SHALL BE SUBMITTED TO THE OWNER FOR REVIEW AND APPROVAL.
  2. DESIGN-BUILDER RESPONSIBLE FOR CONFIRMING UTILITY LOCATIONS.
  3. REFER TO GBR FOR GROUND AND GROUNDWATER CONDITIONS TO BE STABILIZED BY GROUND IMPROVEMENT.
  4. SUPPORT SHAFT AND BREAK-IN/ BREAK-OUT INTERFACES LOCALLY TO ACCOMMODATE THE PENETRATIONS.
  5. BLOW-OFF VALVE CONTROL IN LOCKABLE COVER BOX EMBEDDED AT GRADE SLAB.

- LEGEND:
- SUPPORT OF EXCAVATION
  - ANNULAR GROUT
  - GROUND IMPROVEMENT
  - PERMANENT SHAFT LINING
  - BACKFILL
  - PRECAST CONCRETE
  - CAST-IN-PLACE CONCRETE



**A**  
**CC-S502**  
**3/16" = 1'-0"**  
**CEDAR CREEK PERMANENT SHAFT 2 SECTION**



**CC-S502**  
**3/16" = 1'-0"**  
**CEDAR CREEK PERMANENT SHAFT 2 PLAN**

**PRELIMINARY  
 NOT FOR  
 CONSTRUCTION**  
 DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
 CRITERIA PACKAGE**

DATE: APRIL 2020

PROJECT NO.: PW-S3B116-03CR

FILE NAME: CC-S502

DESIGNED BY: X. ZONG

DRAWN BY: R. CAESAR

CHECKED BY: R. JAIN

NASSAU COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC  
 WORKS

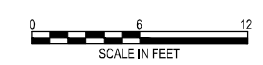
OCEAN OUTFALL  
 EFFLUENT DIVERSION  
 PROJECT

SHEET TITLE  
 CEDAR CREEK FORCE MAIN

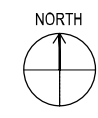
CEDAR CREEK  
 SHAFT 2

SCALE:  
 NTS

CC-S502  
 PAGE 147



User:ARDA-Shera\AUCS\NCPD File:CBMS\WSP-PB-US-P4-20\WSP\_A\LABID\2\502\03\CC-S502.DWG Scale:1:1 SavedDate:2/26/2019 Time:15:53 Plo:Date:April, 2020 15:27 Layer:CC-S502



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	SH-0101_0123		
DESIGNED BY:	M. BROWN		
DRAWN BY:	B. VAN BEEK		
CHECKED BY:	S. HAQ		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

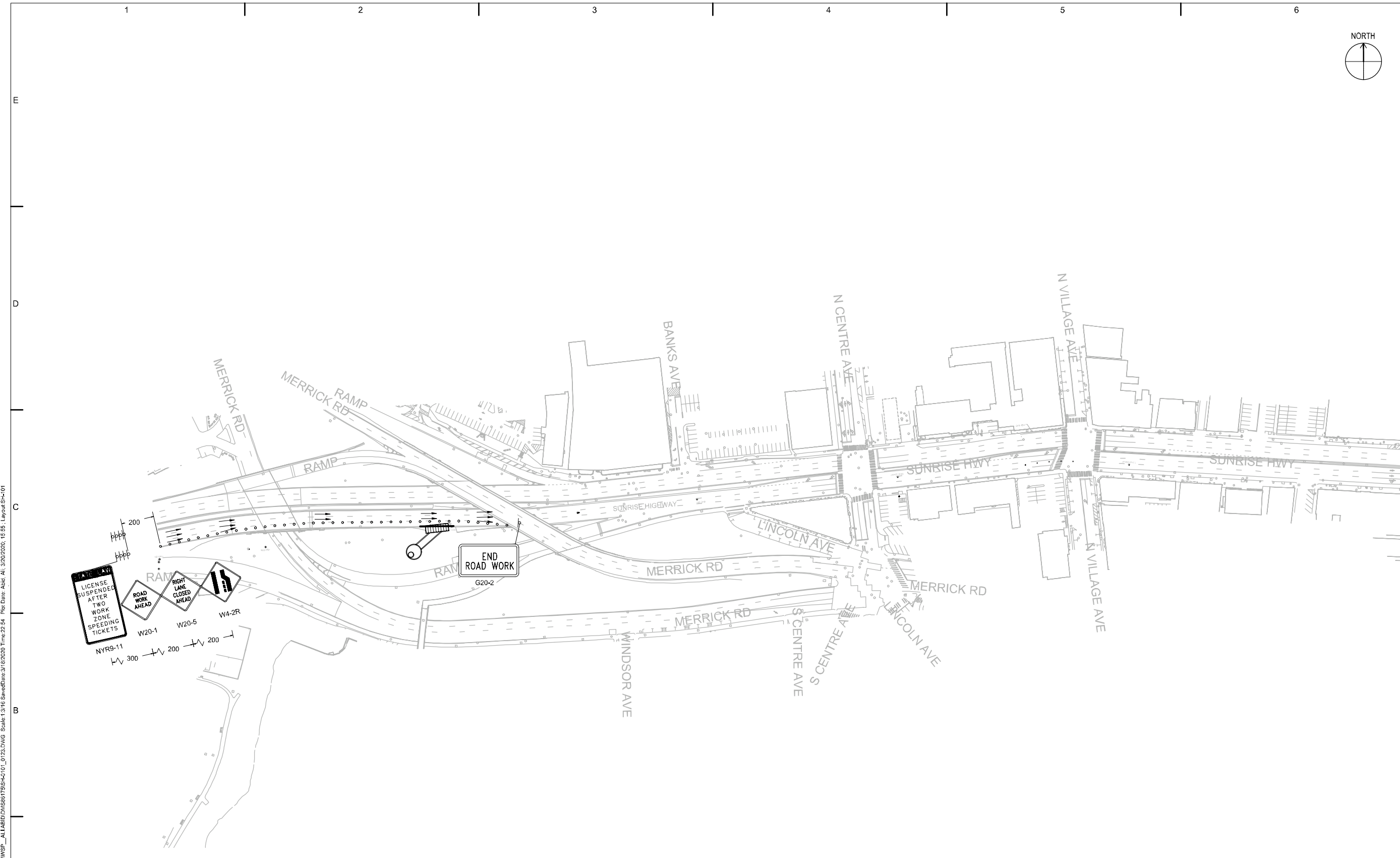
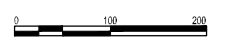
OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

SUNRISE HIGHWAY

WORK ZONE TRAFFIC  
CONTROL STA. 661+61

SCALE: AS SHOWN



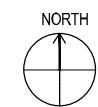
- NOTES:
1. ALL SIGNS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF WORK.
  2. ALL SIGNS SHALL BE REMOVED IMMEDIATELY AFTER COMPLETION OF WORK.
  3. SIGNS SHALL NOT BE LOCATED ON SIDEWALKS OR AREA DESIGNATED FOR PEDESTRIANS OR VEHICULAR TRAFFIC.
  4. EXISTING SIGNS IN CONFLICT WITH TRAFFIC MOVEMENTS SHALL BE TEMPORARILY COVERED.
  5. ALL LANE CLOSURES AND/OR TRAFFIC STOP SHALL BE AS PERMITTED BY NYS DOT
  6. SEE NYS DOT STANDARD DRAWING 619-40 FOR LONGITUDINAL BUFFER SPACE BETWEEN LANE CLOSURES AND WORK ZONE. PROVIDE 2L SPACING BETWEEN LANE REDUCTIONS.

User: ARBA, Spec: AUS, CS: MOD, File: C:\BIBS\WSP\CS-CR-05-PW-MZ\WSP\_AL\LABID\DWG\6175914\10\_0123.DWG, Scale: 1/316, Sheet: 01 of 02, Date: 04/2020, Time: 2:54, Plot Date: Add. All, 3/20/2020, 15:55, Layout: SH-C101

E  
D  
C  
B  
A

1 2 3 4 5 6





**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	SH-0101_0123		
DESIGNED BY:	M. BROWN		
DRAWN BY:	B. VAN BEEK		
CHECKED BY:	S. HAQ		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

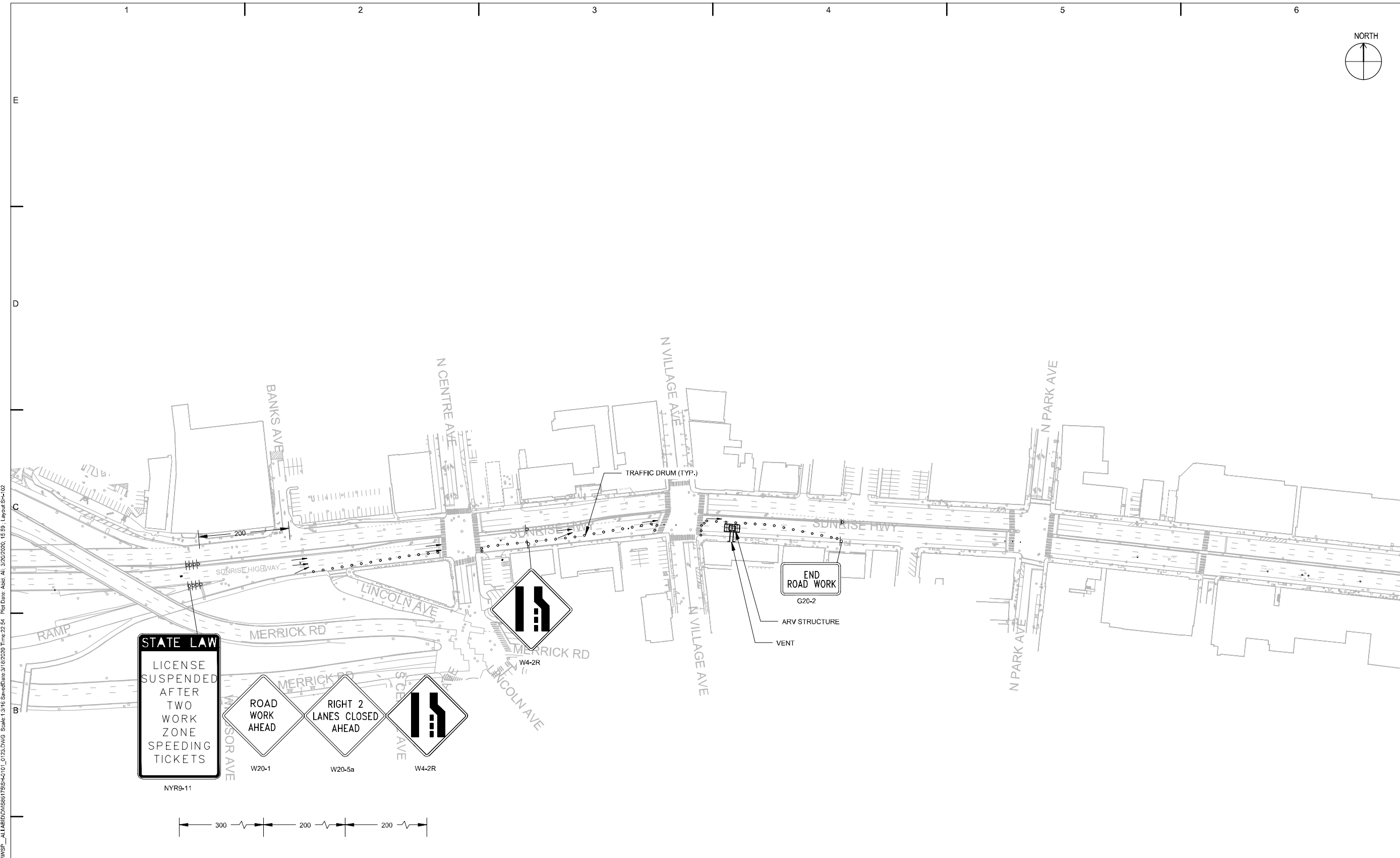
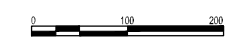
OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

SUNRISE HIGHWAY

WORK ZONE TRAFFIC  
CONTROL STA. 675+93

SCALE: AS SHOWN



- NOTES:
1. ALL SIGNS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF WORK.
  2. ALL SIGNS SHALL BE REMOVED IMMEDIATELY AFTER COMPLETION OF WORK.
  3. SIGNS SHALL NOT BE LOCATED ON SIDEWALKS OR AREA DESIGNATED FOR PEDESTRIANS OR VEHICULAR TRAFFIC.
  4. EXISTING SIGNS IN CONFLICT WITH TRAFFIC MOVEMENTS SHALL BE TEMPORARILY COVERED.
  5. ALL LANE CLOSURES AND/OR TRAFFIC STOP SHALL BE AS PERMITTED BY NYSDOT
  6. SEE NYSDOT STANDARD DRAWING 619-40 FOR LONGITUDINAL BUFFER SPACE BETWEEN LANE CLOSURES AND WORK ZONE. PROVIDE 2L SPACING BETWEEN LANE REDUCTIONS.

User: ARBA, Spec: AUS, CS: MDC, File: C:\BIB\MS\SP-CR-US-7\KZ\WSP\_A\LABID\MS\6175\SH-C101\_0123.DWG, Scale: 1/316, Served: Tue 04/06/2020 11:22:54, Plot Date: Abd. Al. 3/20/2020, 15:59, Layout: SH-C102



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 10/2019

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	OCTOBER 2019		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	SH-0101_0123		
DESIGNED BY:	M. BROWN		
DRAWN BY:	B. VAN BEEK		
CHECKED BY:	S. HAQ		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

SUNRISE HIGHWAY

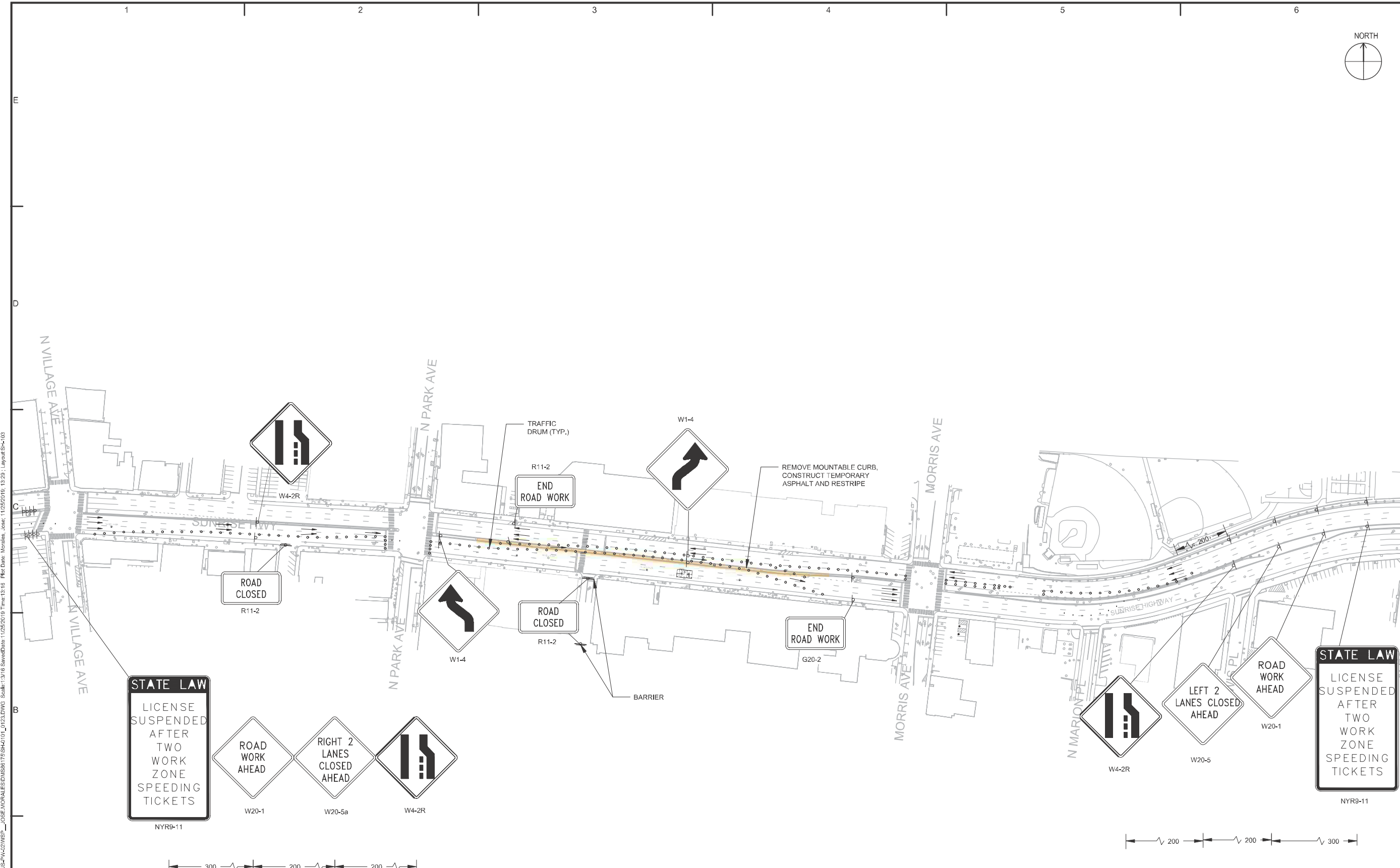
WORK ZONE TRAFFIC  
CONTROL STA. 687+81

SCALE:

AS SHOWN

SH-C103

PAGE 150



**STATE LAW**

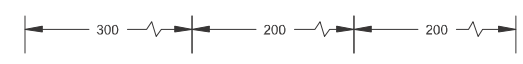
LICENSE  
SUSPENDED  
AFTER  
TWO  
WORK  
ZONE  
SPEEDING  
TICKETS

NYR9-11

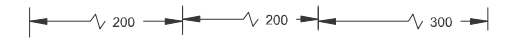
ROAD  
WORK  
AHEAD

RIGHT 2  
LANES  
CLOSED  
AHEAD

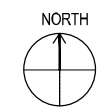
W4-2R



- NOTES:
1. ALL SIGNS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF WORK.
  2. ALL SIGNS SHALL BE REMOVED IMMEDIATELY AFTER COMPLETION OF WORK.
  3. SIGNS SHALL NOT BE LOCATED ON SIDEWALKS OR AREA DESIGNATED FOR PEDESTRIANS OR VEHICULAR TRAFFIC.
  4. EXISTING SIGNS IN CONFLICT WITH TRAFFIC MOVEMENTS SHALL BE TEMPORARILY COVERED.
  5. ALL LANE CLOSURES AND/OR TRAFFIC STOP SHALL BE AS PERMITTED BY NYSDOT
  6. SEE NYSDOT STANDARD DRAWING 619-40 FOR LONGITUDINAL BUFFER SPACE BETWEEN LANE CLOSURES AND WORK ZONE. PROVIDE 2L SPACING BETWEEN LANE REDUCTIONS.



User: MORALESI, Spic: ALIS, CSM: MDD, File: C:\BIB\BIB\SP-PB-SP-W4-2R\SP\_P...\_JOBSE.MORALESI\DWG\687+81\_01\_01.DWG, Scale: 1/8"=1'-0", Date: 10/25/2019, Time: 15:16, Plot Date: 10/25/2019, User: jmorales, Job: 11252019, Title: 687+81, Layout: 687+81



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	SH-0101_0123		
DESIGNED BY:	M. BROWN		
DRAWN BY:	B. VAN BEEK		
CHECKED BY:	S. HAQ		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

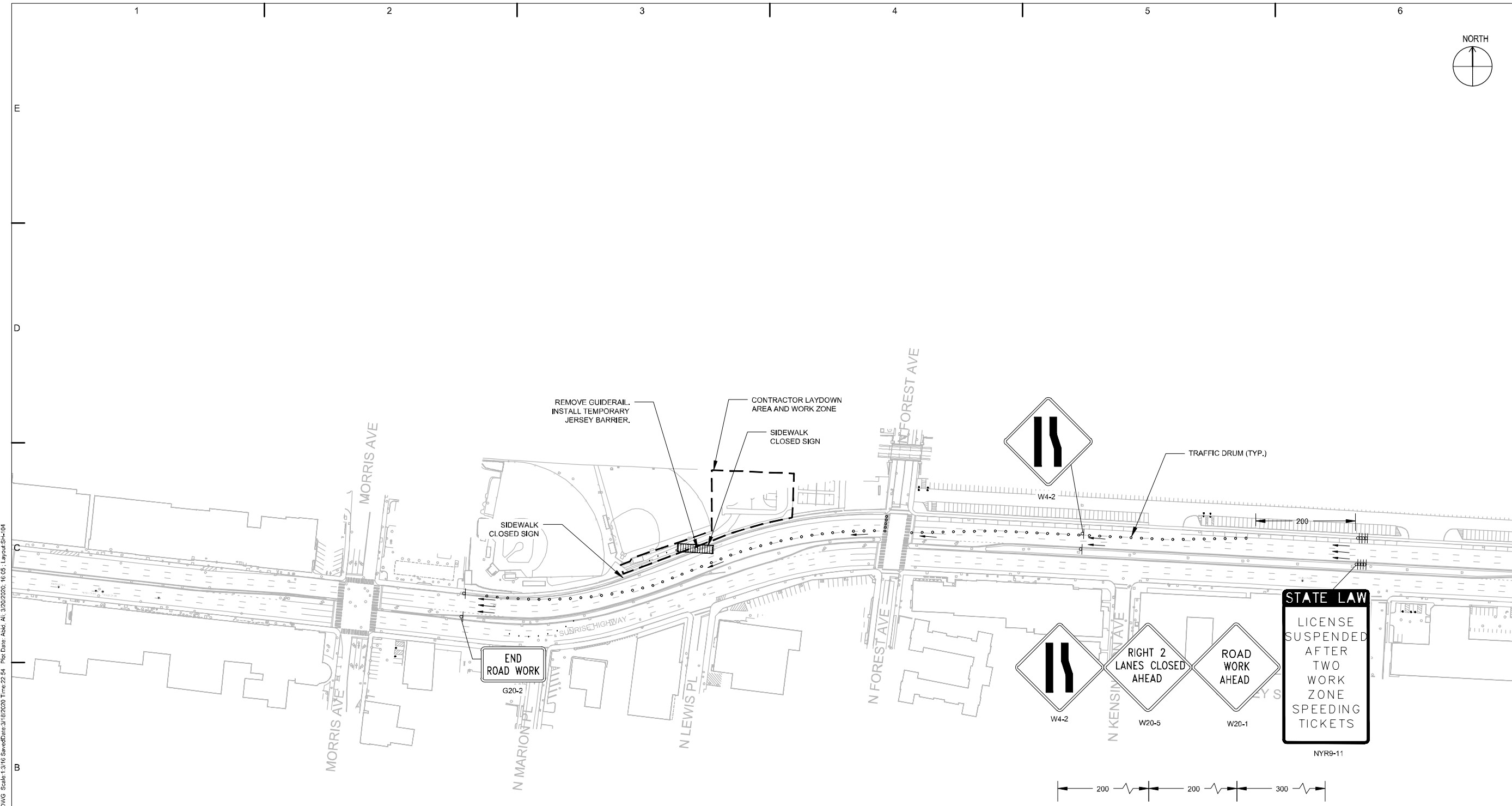
SUNRISE HIGHWAY

WORK ZONE TRAFFIC  
CONTROL STA. 700+00

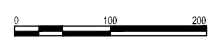
SCALE: AS SHOWN

SH-C104

PAGE 151

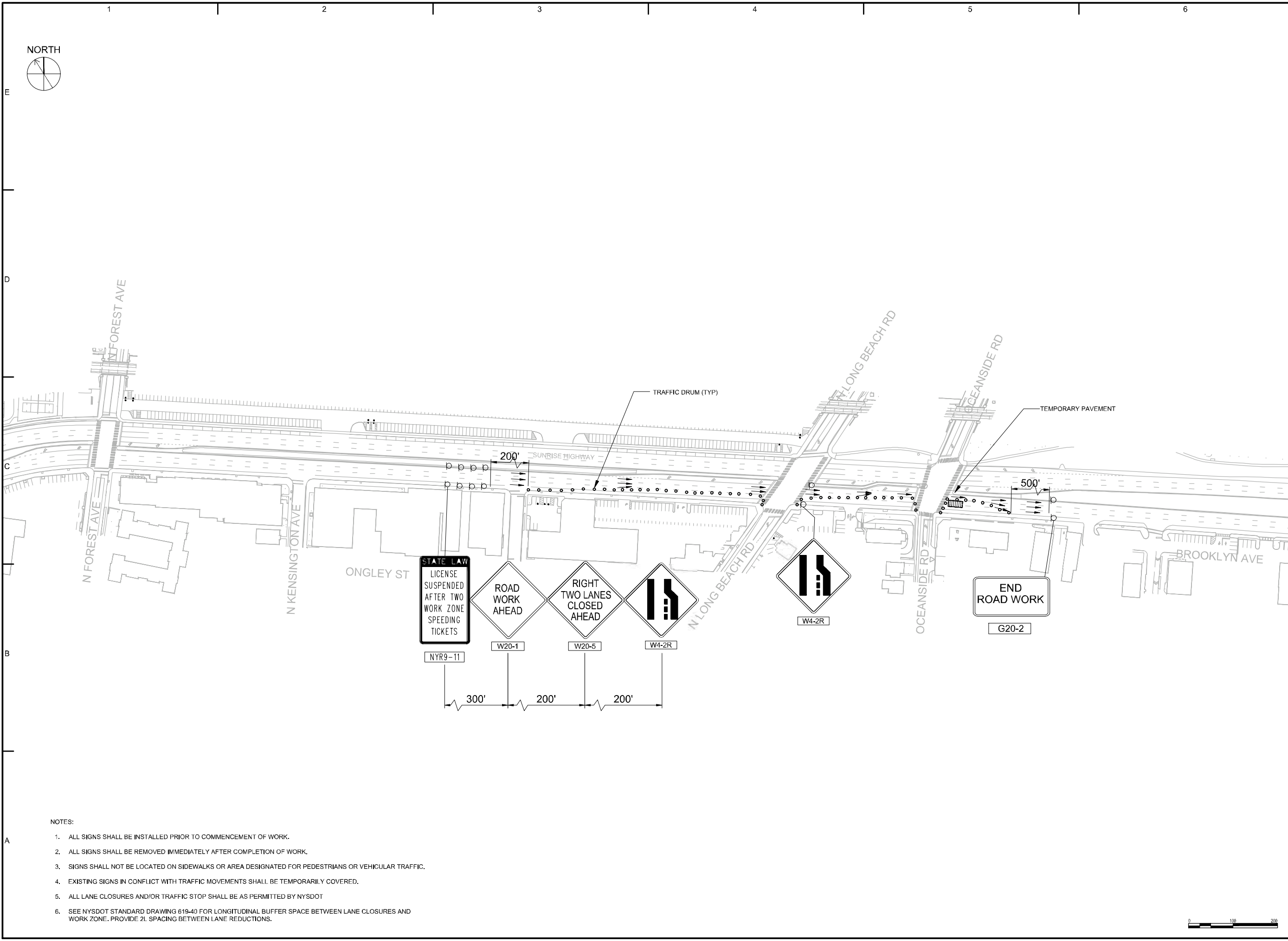


- NOTES:
1. ALL SIGNS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF WORK.
  2. ALL SIGNS SHALL BE REMOVED IMMEDIATELY AFTER COMPLETION OF WORK.
  3. SIGNS SHALL NOT BE LOCATED ON SIDEWALKS OR AREA DESIGNATED FOR PEDESTRIANS OR VEHICULAR TRAFFIC.
  4. EXISTING SIGNS IN CONFLICT WITH TRAFFIC MOVEMENTS SHALL BE TEMPORARILY COVERED.
  5. ALL LANE CLOSURES AND/OR TRAFFIC STOP SHALL BE AS PERMITTED BY NYS DOT
  6. SEE NYS DOT STANDARD DRAWING 619-40 FOR LONGITUDINAL BUFFER SPACE BETWEEN LANE CLOSURES AND WORK ZONE. PROVIDE 2L SPACING BETWEEN LANE REDUCTIONS.



User: ARBA, Spec: AUS, CS: MOD, File: C:\BIB\SW\SC-CP-05-PW-KZZ\WSP\_AL\LAB\ID\DWG\6175\SH-C101\_0123.DWG, Scale: 1/316, Served: 04/16/2020, Time: 2:54, Plot Date: Add, All, 3/20/2020, 16:05, Layout: SH-C104





**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
FINAL DESIGN CRITERIA PACKAGE			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	C-SHA-105		
DESIGNED BY:	A. SAMADI		
DRAWN BY:	A. SAMADI		
CHECKED BY:	S. QUARI		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

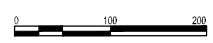
SUNRISE HIGHWAY

WORK ZONE TRAFFIC CONTROL STA. 772+75

SCALE: AS SHOWN

SH-C105

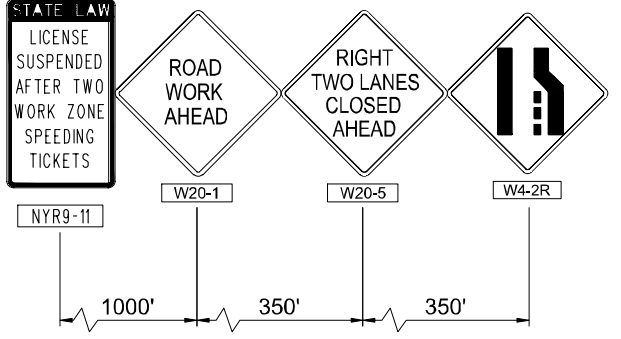
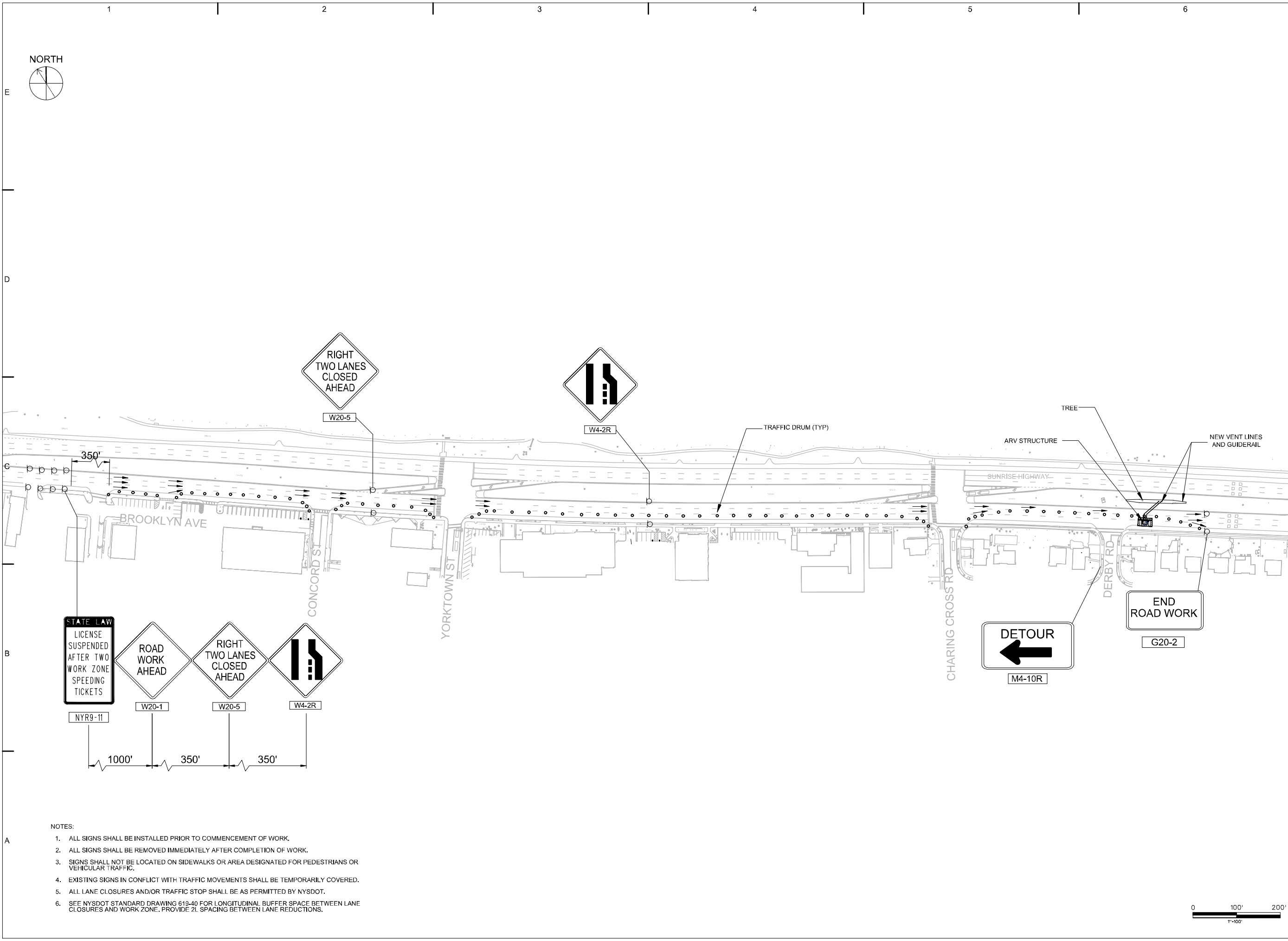
PAGE 152



- NOTES:
1. ALL SIGNS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF WORK.
  2. ALL SIGNS SHALL BE REMOVED IMMEDIATELY AFTER COMPLETION OF WORK.
  3. SIGNS SHALL NOT BE LOCATED ON SIDEWALKS OR AREA DESIGNATED FOR PEDESTRIANS OR VEHICULAR TRAFFIC.
  4. EXISTING SIGNS IN CONFLICT WITH TRAFFIC MOVEMENTS SHALL BE TEMPORARILY COVERED.
  5. ALL LANE CLOSURES AND/OR TRAFFIC STOP SHALL BE AS PERMITTED BY NYS DOT
  6. SEE NYS DOT STANDARD DRAWING 619-40 FOR LONGITUDINAL BUFFER SPACE BETWEEN LANE CLOSURES AND WORK ZONE. PROVIDE 2L SPACING BETWEEN LANE REDUCTIONS.

User: ARDA\_ShecAUS\CS1100C File: C:\BIS\WSP\CS-CR-US-PW\WSP\_AL\LAB\ID\NS68179C-SHA-105.DWG Scale: 1/4"=50'-0" Date: 3/19/2020 Time: 10:19:14 AM

User: MORALES, Spec: ALUS-CUSM000 Fig: C:\B\MS\USP\B\USP\42\WSP...\_JOBSE.MORAL.ES\MS6676\C-SHA-106A.DWG Scale: 1:14 Saved Date: 3/25/2020 Time: 08:05 Plot Date: Morales, Job: 3/25/2020 08:05 Layout: MPT751-027



- NOTES:
1. ALL SIGNS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF WORK.
  2. ALL SIGNS SHALL BE REMOVED IMMEDIATELY AFTER COMPLETION OF WORK.
  3. SIGNS SHALL NOT BE LOCATED ON SIDEWALKS OR AREA DESIGNATED FOR PEDESTRIANS OR VEHICULAR TRAFFIC.
  4. EXISTING SIGNS IN CONFLICT WITH TRAFFIC MOVEMENTS SHALL BE TEMPORARILY COVERED.
  5. ALL LANE CLOSURES AND/OR TRAFFIC STOP SHALL BE AS PERMITTED BY NYSDOT.
  6. SEE NYSDOT STANDARD DRAWING 619-40 FOR LONGITUDINAL BUFFER SPACE BETWEEN LANE CLOSURES AND WORK ZONE. PROVIDE 2L SPACING BETWEEN LANE REDUCTIONS.



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 10/2019

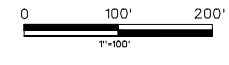
THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
FINAL DESIGN CRITERIA PACKAGE			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	C-SHA-106A		
DESIGNED BY:	A. SAMADI		
DRAWN BY:	A. SAMADI		
CHECKED BY:	S. QUABI		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS  
  
OCEAN OUTFALL EFFLUENT DIVERSION PROJECT

SHEET TITLE  
**SUNRISE HIGHWAY**  
  
WORK ZONE TRAFFIC CONTROL STA. 751+02 NIGHTTIME WORKING

SCALE: AS SHOWN  
  
**SH-C106A**  
PAGE 153

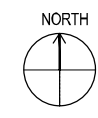












**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	SH-0101_0123		
DESIGNED BY:	M. BROWN		
DRAWN BY:	B. VAN BEEK		
CHECKED BY:	S. HAQ		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

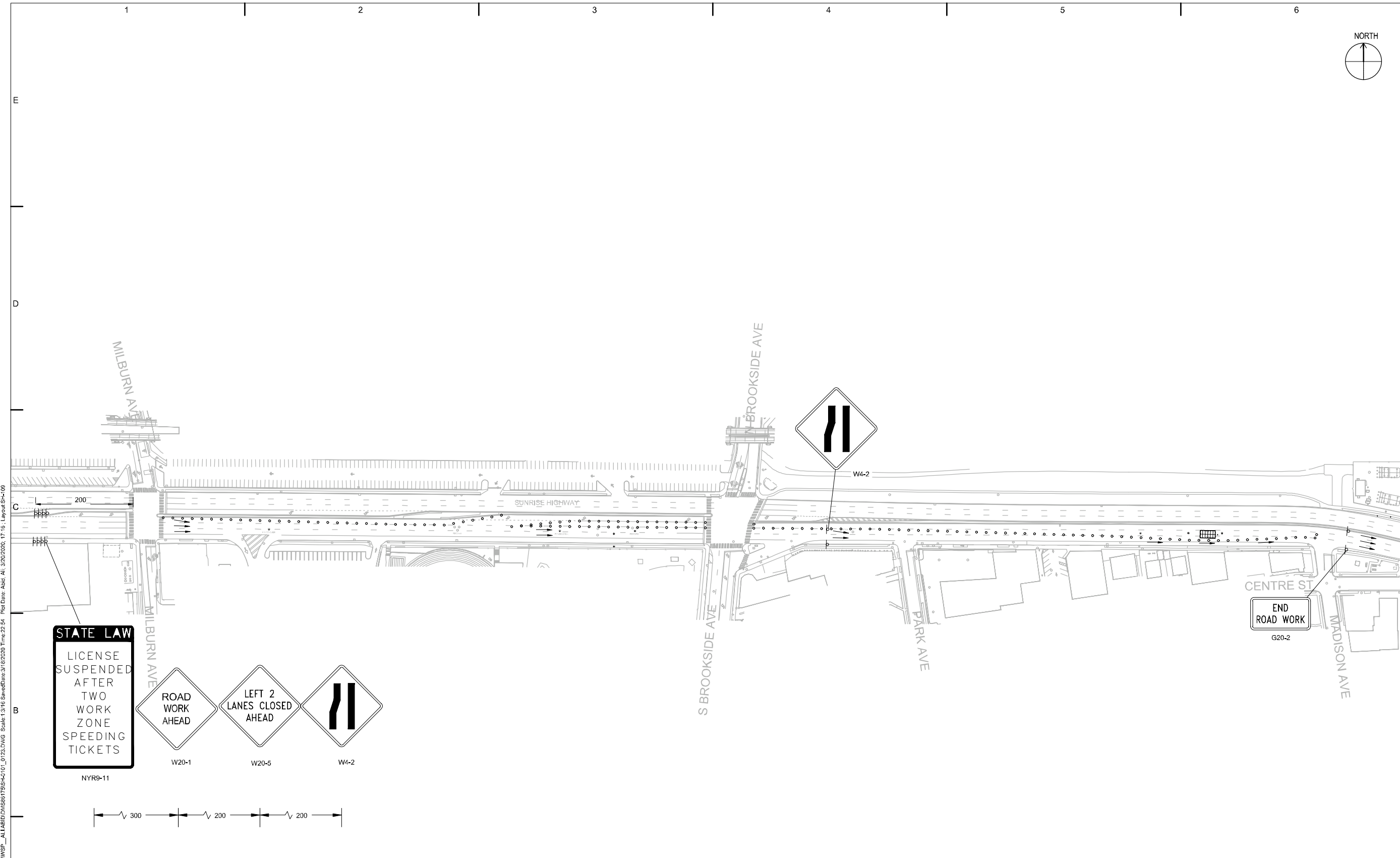
OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

SUNRISE HIGHWAY

WORK ZONE TRAFFIC  
CONTROL STA. 815+18

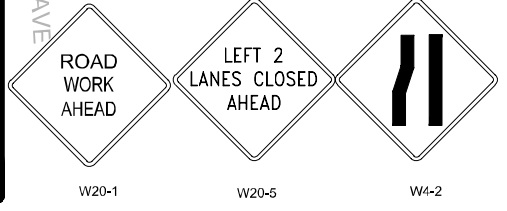
SCALE: AS SHOWN



**STATE LAW**

LICENSE  
SUSPENDED  
AFTER  
TWO  
WORK  
ZONE  
SPEEDING  
TICKETS

NYR9-11



- NOTES:
1. ALL SIGNS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF WORK.
  2. ALL SIGNS SHALL BE REMOVED IMMEDIATELY AFTER COMPLETION OF WORK.
  3. SIGNS SHALL NOT BE LOCATED ON SIDEWALKS OR AREA DESIGNATED FOR PEDESTRIANS OR VEHICULAR TRAFFIC.
  4. EXISTING SIGNS IN CONFLICT WITH TRAFFIC MOVEMENTS SHALL BE TEMPORARILY COVERED.
  5. ALL LANE CLOSURES AND/OR TRAFFIC STOP SHALL BE AS PERMITTED BY NYSDOT
  6. SEE NYSDOT STANDARD DRAWING 619-40 FOR LONGITUDINAL BUFFER SPACE BETWEEN LANE CLOSURES AND WORK ZONE. PROVIDE 2L SPACING BETWEEN LANE REDUCTIONS.

User: ARBA, Spec: AUS, CS: MOD, File: C:\BIB\SW\SP-CR-05-PM\AZ\WSP\_A\LAB\DWG\SH-0101\_0123.DWG, Scale: 1/316, Sweed: 04/16/2020, Time: 2:54, Plot Date: 04/16/2020, Title: 1, Layout: SH-109

E  
D  
C  
B  
A

1 2 3 4 5 6





**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
FINAL DESIGN CRITERIA PACKAGE			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	C-SHA-110		
DESIGNED BY:	A. SAMADI		
DRAWN BY:	A. SAMADI		
CHECKED BY:	S. QUABI		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

SUNRISE HIGHWAY

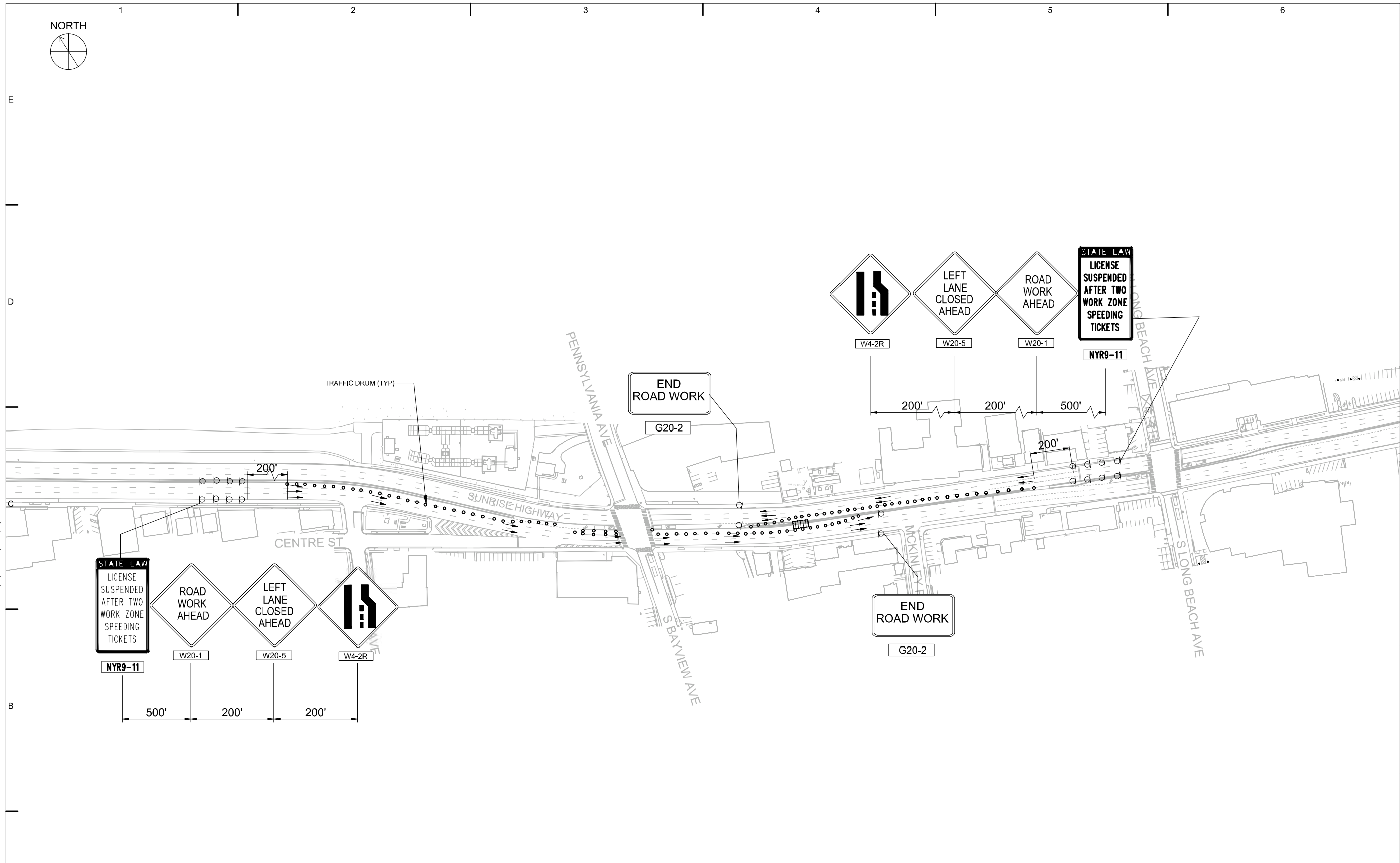
WORK ZONE TRAFFIC  
CONTROL STA. 827+00

SCALE:  
AS SHOWN

SH-C110

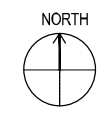
PAGE 158

User: ARBA, Spec: AUS, CS: SHC, File: C:\BIB\BIB\SP-CR-05-20\KZ\WSP\_A\LABID\N\861751C-SHA-110.DWG, Scale: 1/4"=1'-0", Date: 04/20/2020, Time: 17:21, Plot Date: 04/20/2020, 17:22, Layout: MPT-027400



- NOTES:
1. ALL SIGNS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF WORK
  2. ALL SIGNS SHALL BE REMOVED IMMEDIATELY AFTER COMPLETION OF WORK.
  3. SIGNS SHALL NOT BE LOCATED ON SIDEWALKS OR AREA DESIGNATED FOR PEDESTRIANS OR VEHICULAR TRAFFIC.
  4. EXISTING SIGNS IN CONFLICT WITH TRAFFIC MOVEMENTS SHALL BE TEMPORARILY COVERED.
  5. ALL LANE CLOSURES AND/OR TRAFFIC STOP SHALL BE AS PERMITTED BY NYSDOT.
  6. SEE NYSDOT STANDARD DRAWING 619-40 FOR LONGITUDINAL BUFFER SPACE BETWEEN LANE CLOSURES AND WORK ZONE. PROVIDE 2L SPACING BETWEEN LANE REDUCTIONS.





**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	SH-0101_0123		
DESIGNED BY:	M. BROWN		
DRAWN BY:	B. VAN BEEK		
CHECKED BY:	S. HAQ		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

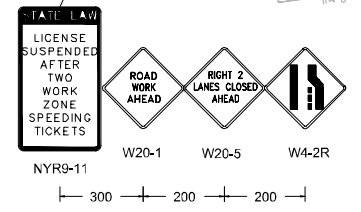
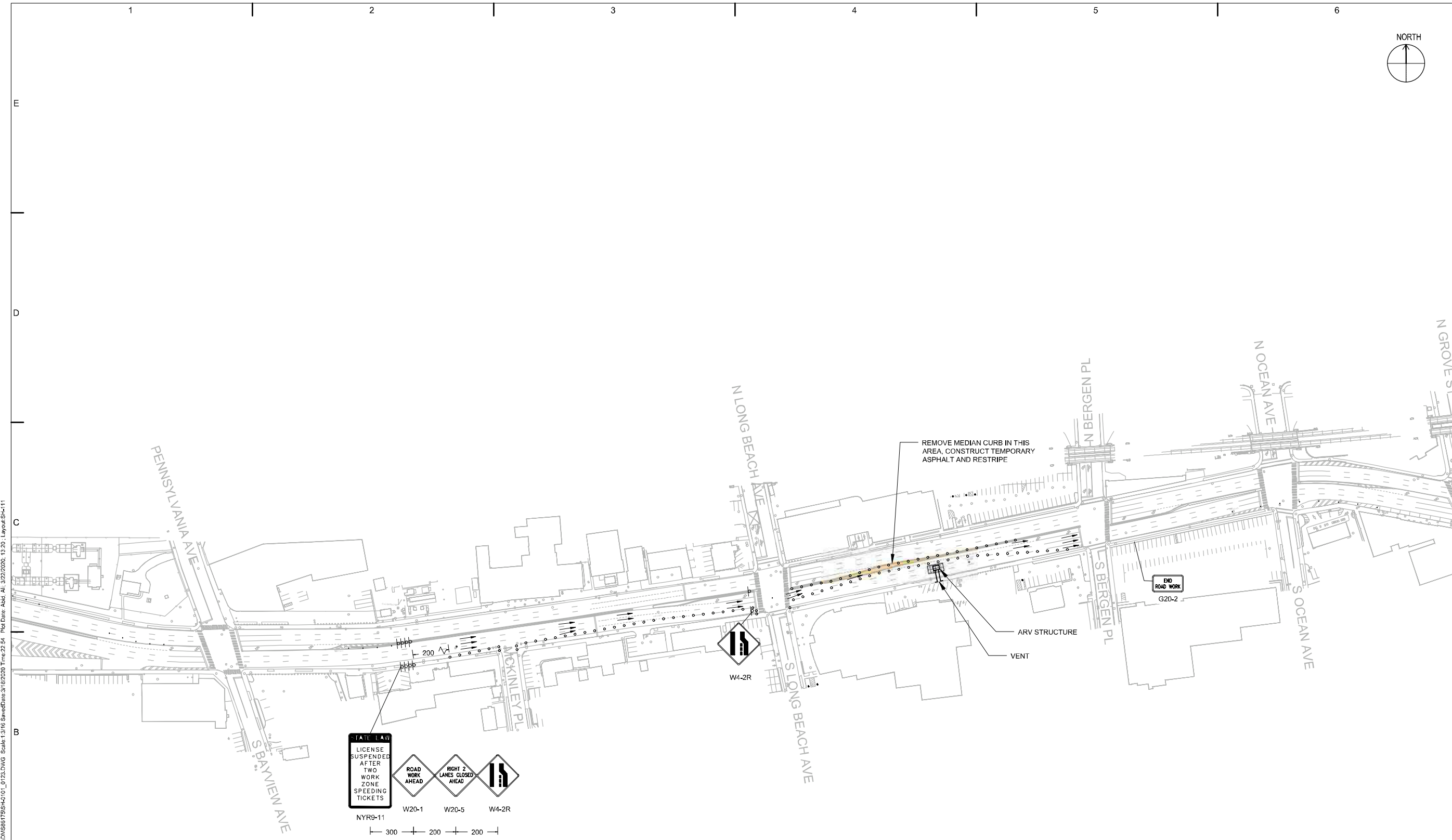
SUNRISE HIGHWAY

WORK ZONE TRAFFIC  
CONTROL STA. 838+05

SCALE: AS SHOWN

SH-C111

PAGE 159



- NOTES:
1. ALL SIGNS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF WORK.
  2. ALL SIGNS SHALL BE REMOVED IMMEDIATELY AFTER COMPLETION OF WORK.
  3. SIGNS SHALL NOT BE LOCATED ON SIDEWALKS OR AREA DESIGNATED FOR PEDESTRIANS OR VEHICULAR TRAFFIC.
  4. EXISTING SIGNS IN CONFLICT WITH TRAFFIC MOVEMENTS SHALL BE TEMPORARILY COVERED.
  5. ALL LANE CLOSURES AND/OR TRAFFIC STOP SHALL BE AS PERMITTED BY NYSDOT
  6. SEE NYSDOT STANDARD DRAWING 619-40 FOR LONGITUDINAL BUFFER SPACE BETWEEN LANE CLOSURES AND WORK ZONE. PROVIDE 2L SPACING BETWEEN LANE REDUCTIONS.

User: ARBA; Spec: AUS; CS: MOD; File: C:\BIB\SWSP\SH-C111\_0123.DWG; Scale: 1/316; SweedDate: 04/08/2020; Time: 2:54; Plot Date: Add; All; 3/22/2020; 12:20; Layout: SH-C111



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
FINAL DESIGN CRITERIA PACKAGE			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	C-SHA-112		
DESIGNED BY:	A. SAMADI		
DRAWN BY:	A. SAMADI		
CHECKED BY:	S. QUABU		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

SUNRISE HIGHWAY

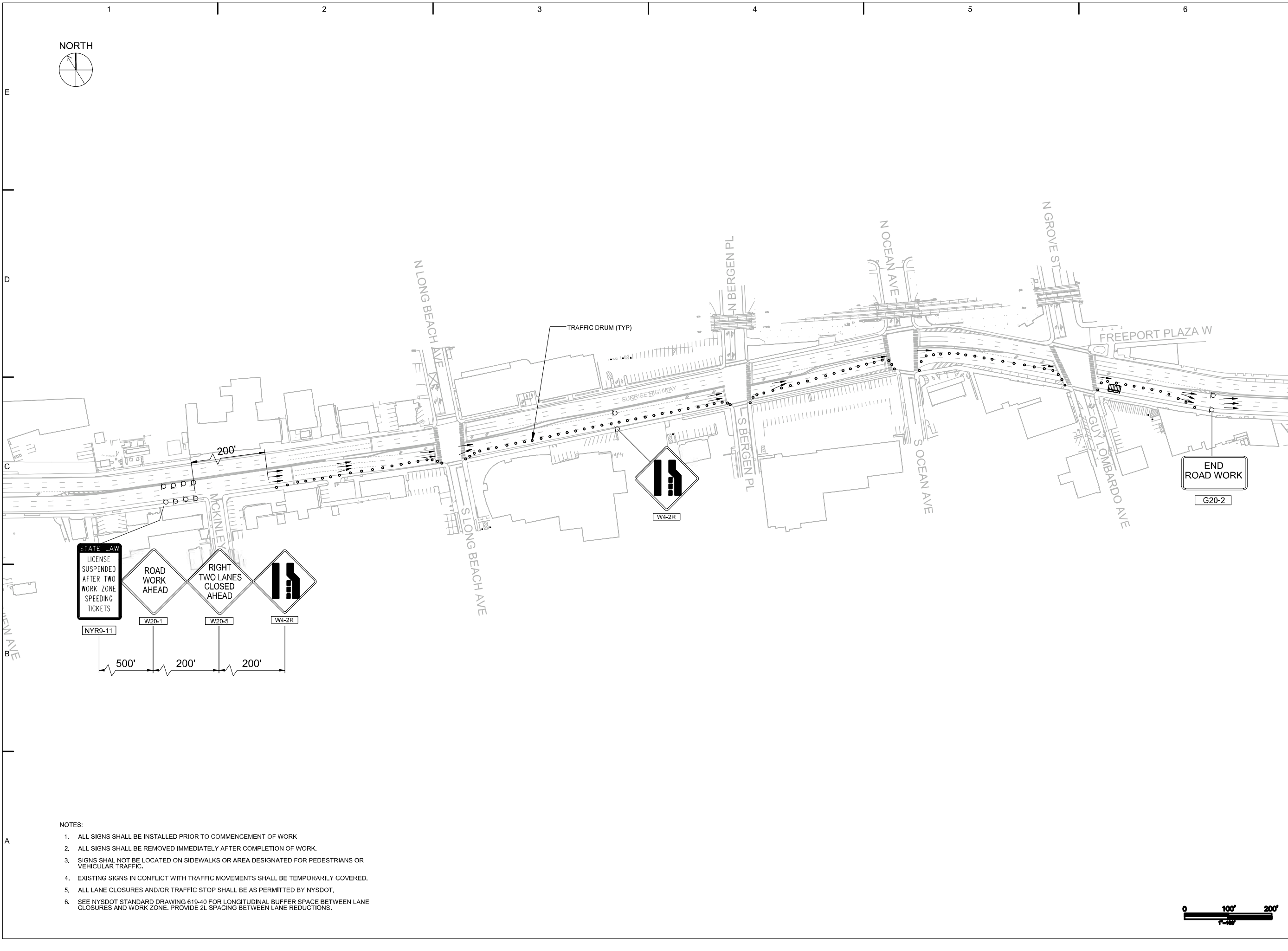
WORK ZONE TRAFFIC CONTROL STA. 849+82

SCALE: AS SHOWN

SH-C112

PAGE 160

User: ARBA, Spec: AUS/CS/SHD File: C:\BIB\SW\SP-CR-122\DWG Scale: 1/4"=100' Date: 3/22/2020 Time: 10:19:14 AM Path: C:\BIB\SW\SP-CR-122\DWG Scale: 1/4"=100' Date: 3/22/2020 Time: 10:21:14 AM Path: W:\P\489-813



- NOTES:
1. ALL SIGNS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF WORK
  2. ALL SIGNS SHALL BE REMOVED IMMEDIATELY AFTER COMPLETION OF WORK.
  3. SIGNS SHALL NOT BE LOCATED ON SIDEWALKS OR AREA DESIGNATED FOR PEDESTRIANS OR VEHICULAR TRAFFIC.
  4. EXISTING SIGNS IN CONFLICT WITH TRAFFIC MOVEMENTS SHALL BE TEMPORARILY COVERED.
  5. ALL LANE CLOSURES AND/OR TRAFFIC STOP SHALL BE AS PERMITTED BY NYS DOT.
  6. SEE NYS DOT STANDARD DRAWING 619-40 FOR LONGITUDINAL BUFFER SPACE BETWEEN LANE CLOSURES AND WORK ZONE. PROVIDE 2L SPACING BETWEEN LANE REDUCTIONS.





NORTH



1 2 3 4 5 6

E

D

C

B

A



**JPCL**  
ENGINEERING

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

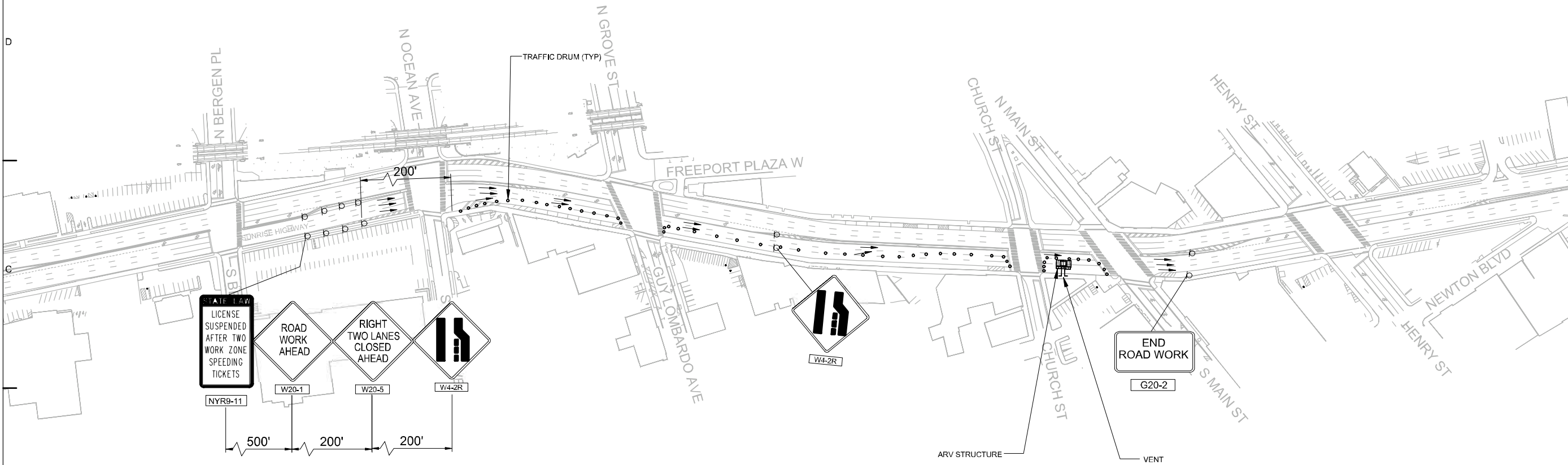
NO.	DATE	ISSUED FOR	BY
FINAL DESIGN CRITERIA PACKAGE			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	C-SHA-113		
DESIGNED BY:	A. SAMADI		
DRAWN BY:	A. SAMADI		
CHECKED BY:	S. QUABI		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS  
  
OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE  
  
SUNRISE HIGHWAY  
  
WORK ZONE TRAFFIC  
CONTROL STA. 856+71

SCALE: AS SHOWN

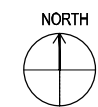
SH-C113  
PAGE 161



- NOTES:
1. ALL SIGNS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF WORK.
  2. ALL SIGNS SHALL BE REMOVED IMMEDIATELY AFTER COMPLETION OF WORK.
  3. SIGNS SHALL NOT BE LOCATED ON SIDEWALKS OR AREA DESIGNATED FOR PEDESTRIANS OR VEHICULAR TRAFFIC.
  4. EXISTING SIGNS IN CONFLICT WITH TRAFFIC MOVEMENTS SHALL BE TEMPORARILY COVERED.
  5. ALL LANE CLOSURES AND/OR TRAFFIC STOP SHALL BE AS PERMITTED BY NYSDOT.
  6. SEE NYSDOT STANDARD DRAWING 619-40 FOR LONGITUDINAL BUFFER SPACE BETWEEN LANE CLOSURES AND WORK ZONE. PROVIDE 2L SPACING BETWEEN LANE REDUCTIONS.



User: ARBA, Spec: AUS\CS\MOD File: C:\BIB\SW\SW-CR-05\PLAN\WSP\_AL\LAB\DWG\6175C-SHA-113.DWG Scale: 1/4" = 100' Date: 3/19/2020 Time: 10:19 Pld: Date: 4/1/2020 Time: 13:27 Layout: WSP-856-71



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	SH-0101_0123		
DESIGNED BY:	M. BROWN		
DRAWN BY:	B. VAN BEEK		
CHECKED BY:	S. HAQ		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

SUNRISE HIGHWAY

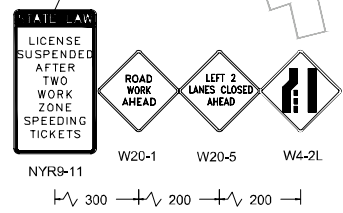
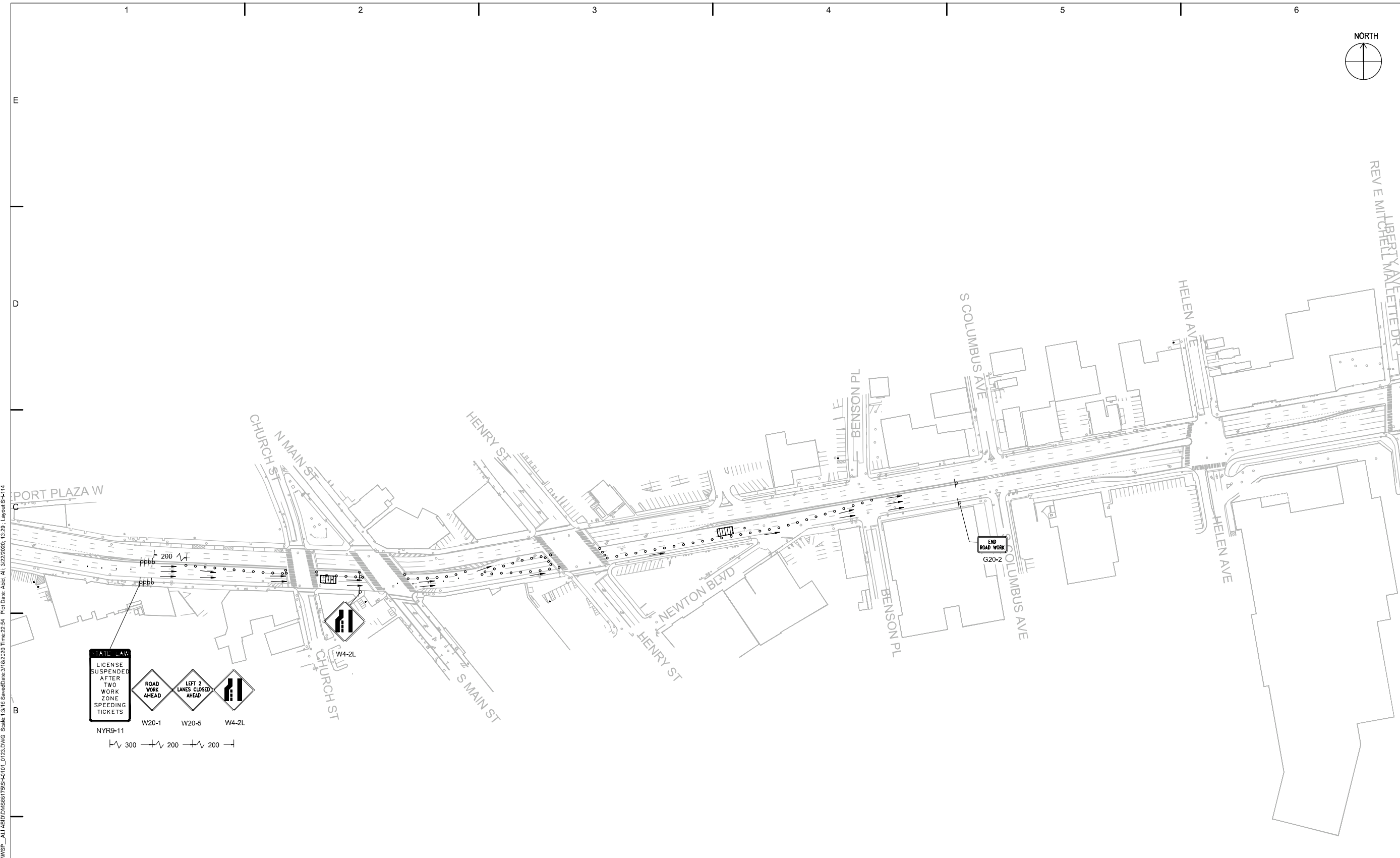
WORK ZONE TRAFFIC  
CONTROL STA. 865+00

SCALE: AS SHOWN



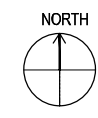
SH-C114

PAGE 162



- NOTES:
1. ALL SIGNS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF WORK.
  2. ALL SIGNS SHALL BE REMOVED IMMEDIATELY AFTER COMPLETION OF WORK.
  3. SIGNS SHALL NOT BE LOCATED ON SIDEWALKS OR AREA DESIGNATED FOR PEDESTRIANS OR VEHICULAR TRAFFIC.
  4. EXISTING SIGNS IN CONFLICT WITH TRAFFIC MOVEMENTS SHALL BE TEMPORARILY COVERED.
  5. ALL LANE CLOSURES AND/OR TRAFFIC STOP SHALL BE AS PERMITTED BY NYSDOT
  6. SEE NYSDOT STANDARD DRAWING 619-40 FOR LONGITUDINAL BUFFER SPACE BETWEEN LANE CLOSURES AND WORK ZONE. PROVIDE 2L SPACING BETWEEN LANE REDUCTIONS.

User: ARBA, Spec: AUS, CS: MOD, File: C:\BIB\SW\SW-CR-05-PW\KZZ\WSP\_AL\LABID\DWG\6175154\10\_0123.DWG, Scale: 1/316, Sweedline: 3/16/2020, Time: 2:54, Plot Date: Add. All, 3/22/2020, 12:29, Layout: SH-C114



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	SH-0101_0123		
DESIGNED BY:	M. BROWN		
DRAWN BY:	B. VAN BEEK		
CHECKED BY:	S. HAQ		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

SUNRISE HIGHWAY

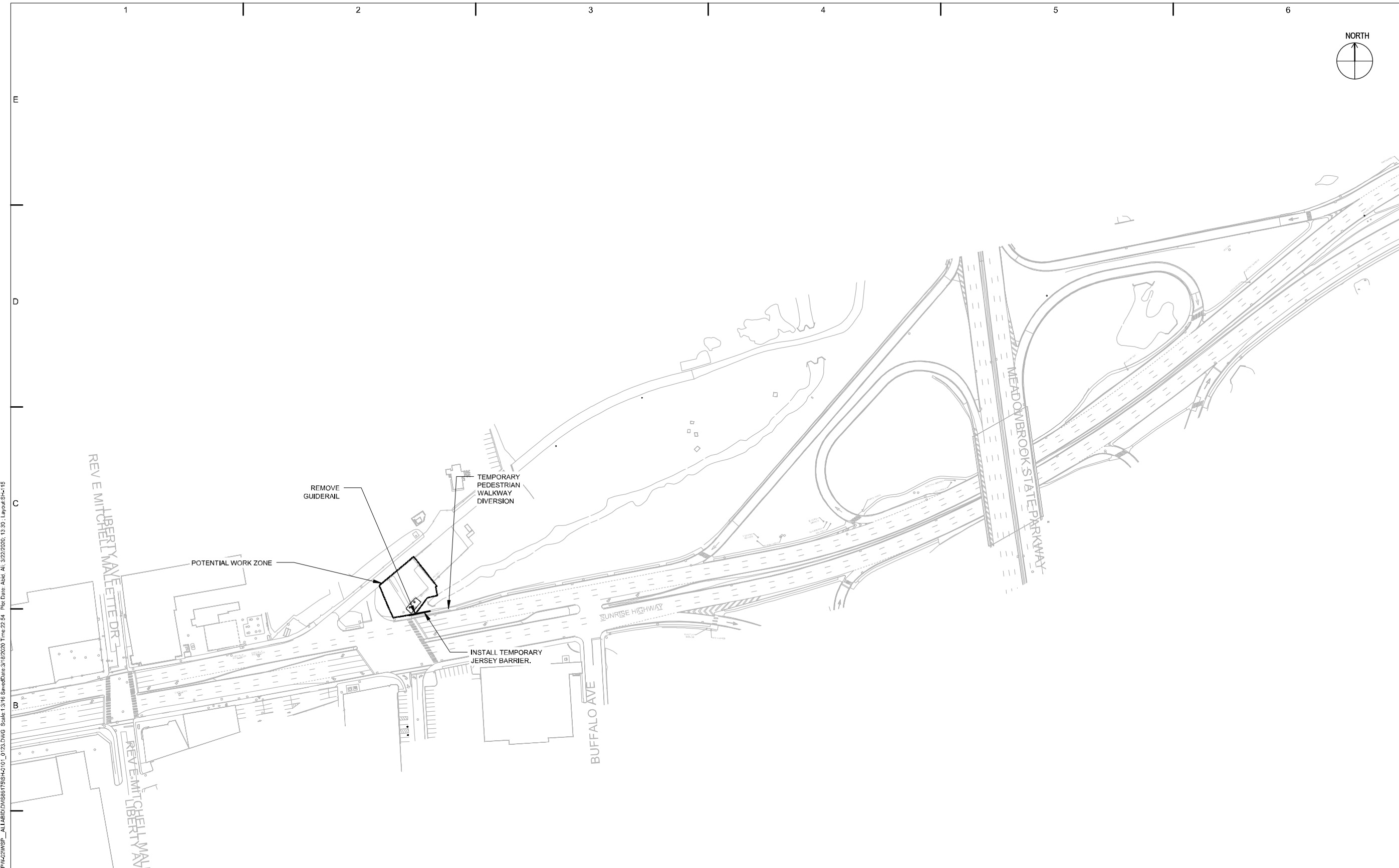
WORK ZONE TRAFFIC  
CONTROL STA. 885+80

SCALE: AS SHOWN



SH-C115

PAGE 163

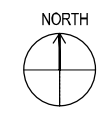


- NOTES:
1. ALL SIGNS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF WORK.
  2. ALL SIGNS SHALL BE REMOVED IMMEDIATELY AFTER COMPLETION OF WORK.
  3. SIGNS SHALL NOT BE LOCATED ON SIDEWALKS OR AREA DESIGNATED FOR PEDESTRIANS OR VEHICULAR TRAFFIC.
  4. EXISTING SIGNS IN CONFLICT WITH TRAFFIC MOVEMENTS SHALL BE TEMPORARILY COVERED.
  5. ALL LANE CLOSURES AND/OR TRAFFIC STOP SHALL BE AS PERMITTED BY NYSDOT
  6. SEE NYSDOT STANDARD DRAWING 619-40 FOR LONGITUDINAL BUFFER SPACE BETWEEN LANE CLOSURES AND WORK ZONE. PROVIDE 2L SPACING BETWEEN LANE REDUCTIONS.

User: ARBA, Spec: AUS, CS: MOD, File: C:\BIB\SW\SP\AL\LAB\ID\MS68175\SH-C115\_0123.DWG, Scale: 1/316, SweedDate: 3/16/2020, Time: 2:54, Plot Date: Add, All, 3/22/2020, 13:30, Layout: SH-C115

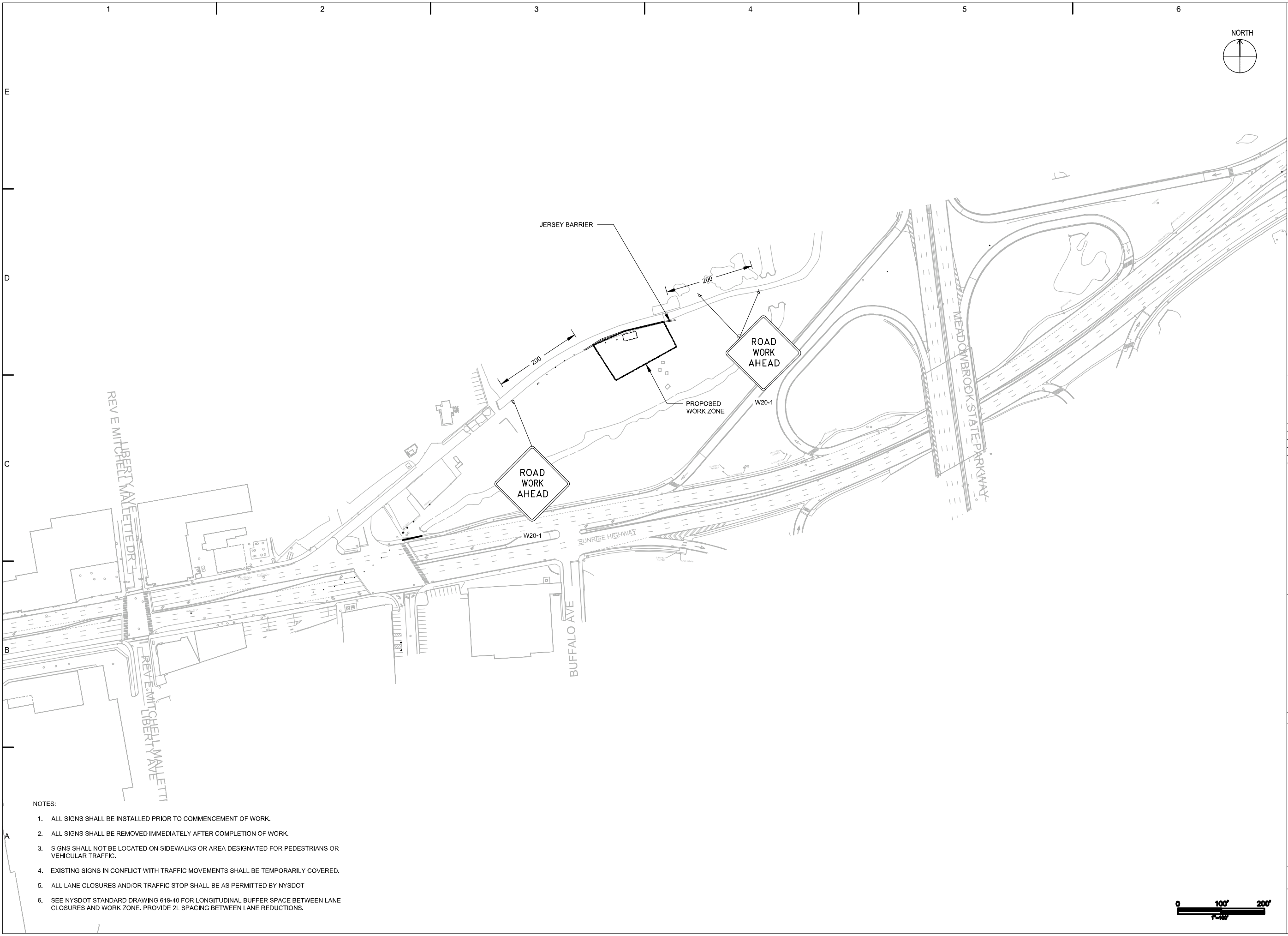


1 2 3 4 5 6



E  
D  
C  
B  
A

User: ARBA, Spec: AUS, CS: MOD, File: C:\BIS\WSP\CS\B\JIS\WSP\AL\LAB\ID\DWG\617514\10\_0173.DWG, Scale: 1/316, Sweed: 01/6/2020, Time: 22:54, Plot Date: Add. All, 3/22/2020, 13:37, Layout: SH-C116



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	SH-0101_0123		
DESIGNED BY:	M. BROWN		
DRAWN BY:	B. VAN BEEK		
CHECKED BY:	S. HAQ		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS  
  
OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE  
  
SUNRISE HIGHWAY  
  
WORK ZONE TRAFFIC  
CONTROL STA. 892+50

SCALE:  
AS SHOWN



SH-C116  
PAGE 164

- NOTES:
1. ALL SIGNS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF WORK.
  2. ALL SIGNS SHALL BE REMOVED IMMEDIATELY AFTER COMPLETION OF WORK.
  3. SIGNS SHALL NOT BE LOCATED ON SIDEWALKS OR AREA DESIGNATED FOR PEDESTRIANS OR VEHICULAR TRAFFIC.
  4. EXISTING SIGNS IN CONFLICT WITH TRAFFIC MOVEMENTS SHALL BE TEMPORARILY COVERED.
  5. ALL LANE CLOSURES AND/OR TRAFFIC STOP SHALL BE AS PERMITTED BY NYSDOT
  6. SEE NYSDOT STANDARD DRAWING 619-40 FOR LONGITUDINAL BUFFER SPACE BETWEEN LANE CLOSURES AND WORK ZONE. PROVIDE 2L SPACING BETWEEN LANE REDUCTIONS.

NORTH



1 2 3 4 5 6

E

D

C

B

A



PRELIMINARY  
NOT FOR  
CONSTRUCTION  
DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

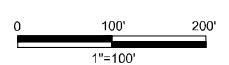
NO.	DATE	ISSUED FOR	BY
FINAL DESIGN CRITERIA PACKAGE			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	C-SHA-117		
DESIGNED BY:	A. SAMADI		
DRAWN BY:	A. SAMADI		
CHECKED BY:	S. QUARI		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS

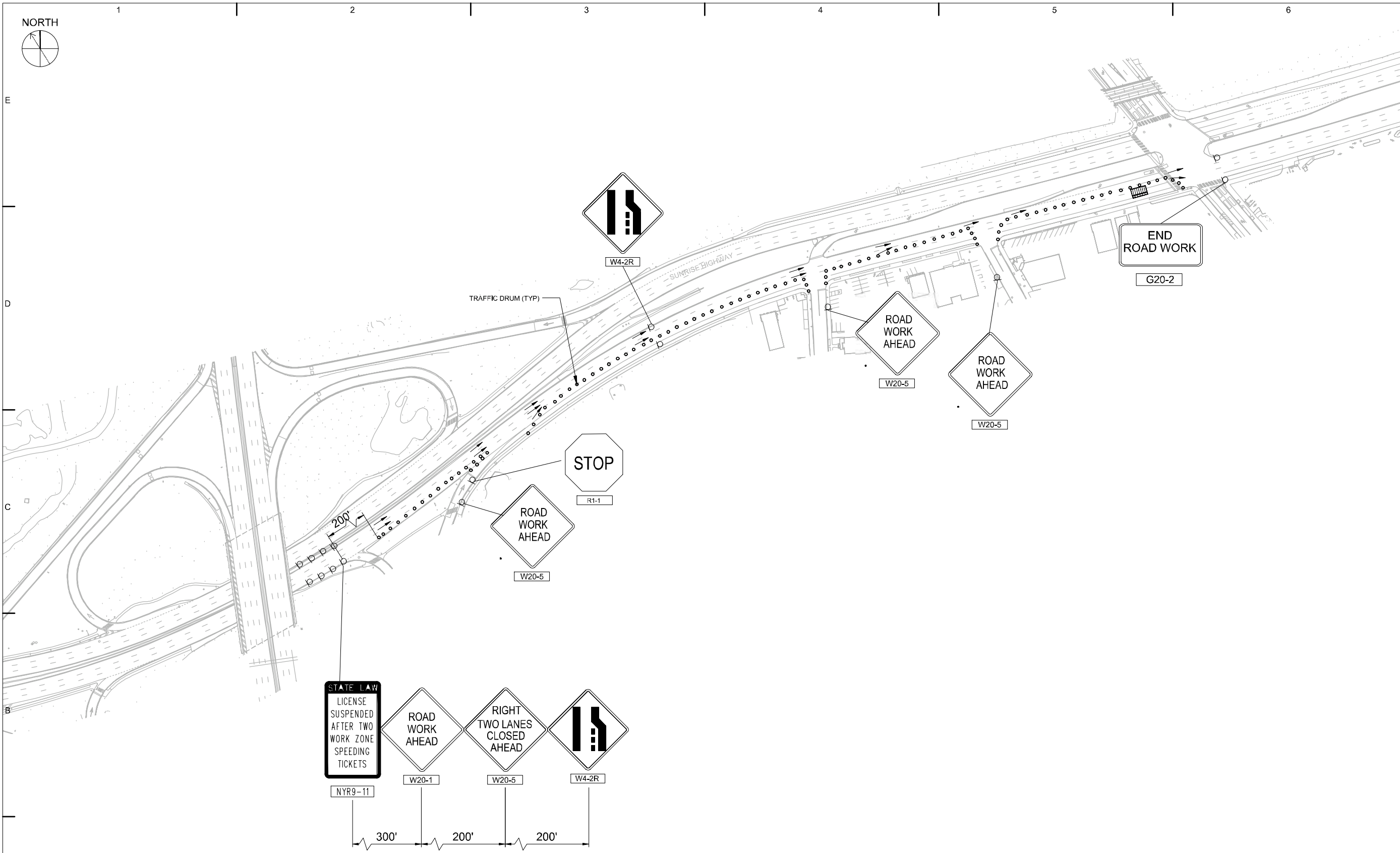
OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE  
SUNRISE HIGHWAY  
WORK ZONE TRAFFIC CONTROL STA. 918+82

SCALE: AS SHOWN



SH-C117  
PAGE 165



- NOTES:
1. ALL SIGNS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF WORK.
  2. ALL SIGNS SHALL BE REMOVED IMMEDIATELY AFTER COMPLETION OF WORK.
  3. SIGNS SHALL NOT BE LOCATED ON SIDEWALKS OR AREA DESIGNATED FOR PEDESTRIANS OR VEHICULAR TRAFFIC.
  4. EXISTING SIGNS IN CONFLICT WITH TRAFFIC MOVEMENTS SHALL BE TEMPORARILY COVERED.
  5. ALL LANE CLOSURES AND/OR TRAFFIC STOP SHALL BE AS PERMITTED BY NYS DOT.
  6. SEE NYS DOT STANDARD DRAWING 619-40 FOR LONGITUDINAL BUFFER SPACE BETWEEN LANE CLOSURES AND WORK ZONE. PROVIDE 2L SPACING BETWEEN LANE REDUCTIONS.

User:ARBDA\_Spec:AUS\CS\MOD File C:\BIB\SWSP-CR-05-PM\KAZ\WSP\_AL\LABID\DN\66175C-SHA-172\DWG Scale: 1/4"=100' Date: 3/19/2020 Time: 10:19 Pld Date: 4/1/2020 Time: 13:45 Layout: WPT-018-022



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
FINAL DESIGN CRITERIA PACKAGE			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	C-SHA-118		
DESIGNED BY:	A. SAMADI		
DRAWN BY:	A. SAMADI		
CHECKED BY:	S. QUARI		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

SUNRISE HIGHWAY

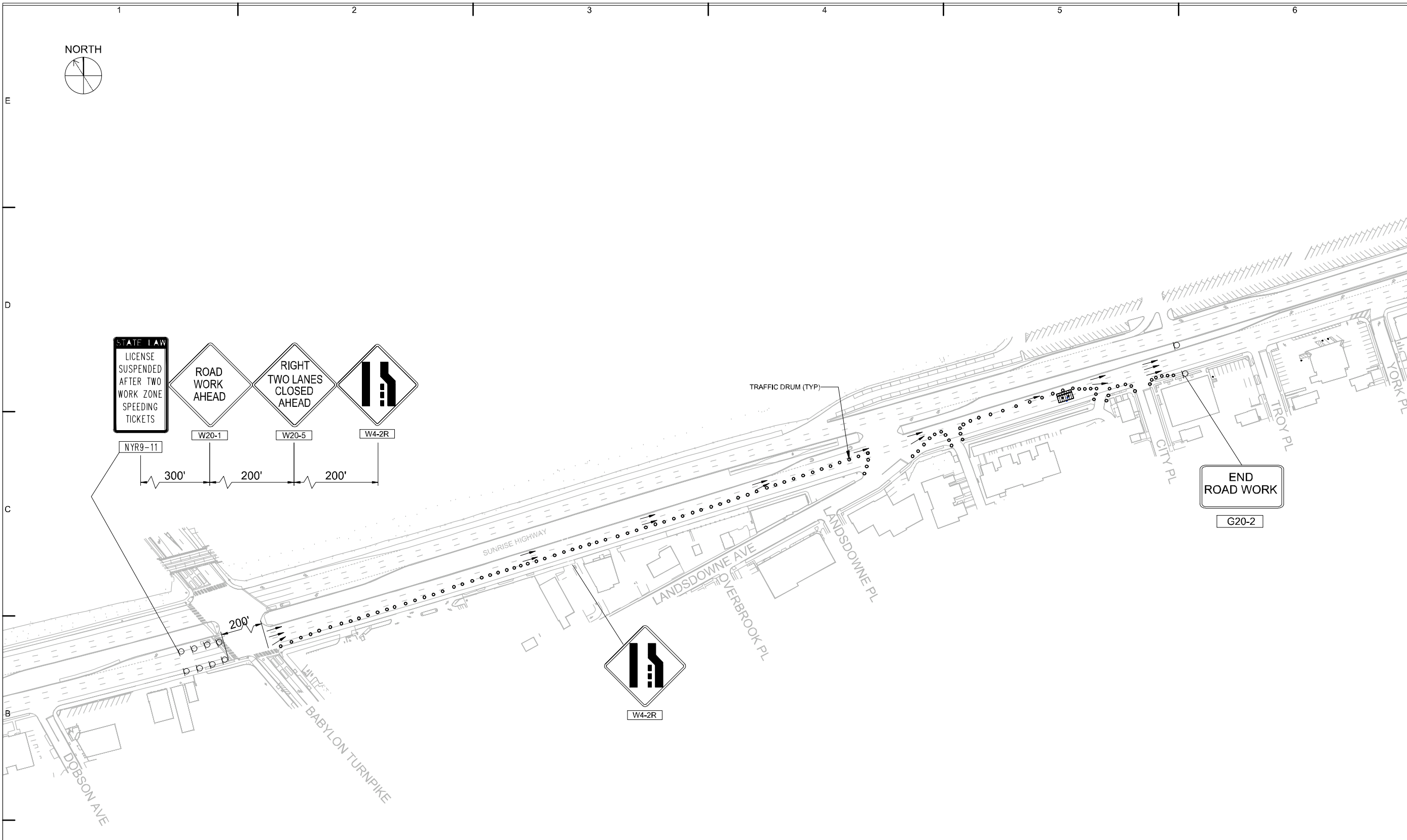
WORK ZONE TRAFFIC  
CONTROL STA. 938+00

SCALE: AS SHOWN

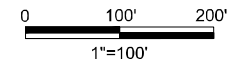
SH-C118

PAGE 166

User: ARBA, Spec: AUS\CS\MOD File: C:\BIB\SW\53-CR-03-03\WSP\_A\LAB\DWG\938+00\TFC-SHA-118.DWG Scale: 1/4"=100' Date: 04/22/2020 Time: 13:51 Plot Date: 04/22/2020 13:56 Layout: MPT-538+00



- NOTES:
1. ALL SIGNS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF WORK.
  2. ALL SIGNS SHALL BE REMOVED IMMEDIATELY AFTER COMPLETION OF WORK.
  3. SIGNS SHALL NOT BE LOCATED ON SIDEWALKS OR AREA DESIGNATED FOR PEDESTRIANS OR VEHICULAR TRAFFIC.
  4. EXISTING SIGNS IN CONFLICT WITH TRAFFIC MOVEMENTS SHALL BE TEMPORARILY COVERED.
  5. ALL LANE CLOSURES AND/OR TRAFFIC STOP SHALL BE AS PERMITTED BY NYS DOT.
  6. SEE NYS DOT STANDARD DRAWING 619-40 FOR LONGITUDINAL BUFFER SPACE BETWEEN LANE CLOSURES AND WORK ZONE. PROVIDE 2L SPACING BETWEEN LANE REDUCTIONS.



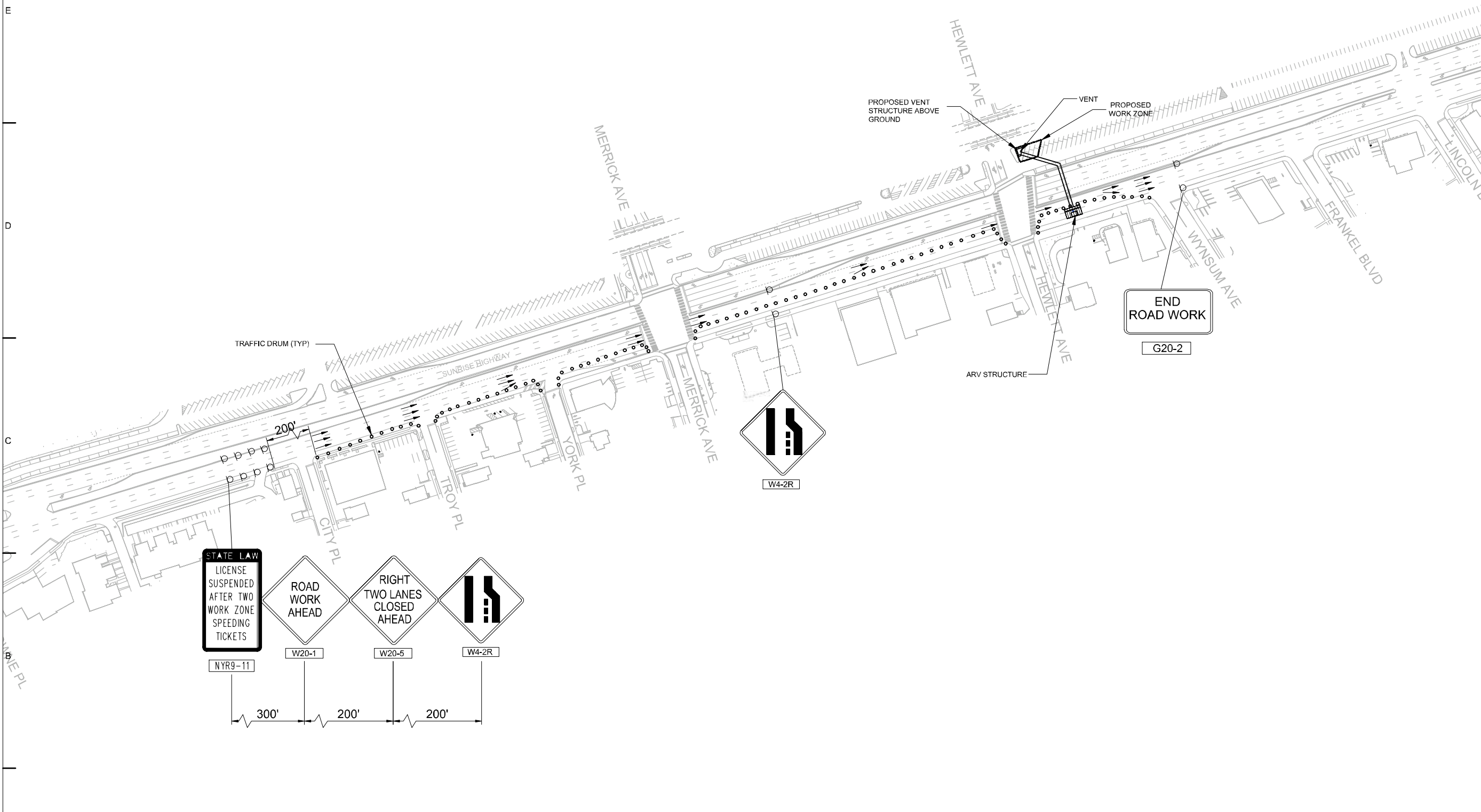




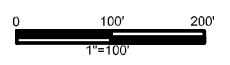
1 2 3 4 5 6

E  
D  
C  
B  
A

User: ARBA, Spec: AUS\CS\MOD File: C:\BIB\US\SWP-CR-USE\WZ\WSP\_AL\LAB\ID\N\86175\TIC-SHA-19.DWG Scale: 1/4" = 100' Date: 3/19/2020 Time: 10:19:19 Pld: Date: 3/19/2020 Time: 14:00 Layout: WPT-054-96.1



- NOTES:
1. ALL SIGNS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF WORK.
  2. ALL SIGNS SHALL BE REMOVED IMMEDIATELY AFTER COMPLETION OF WORK.
  3. SIGNS SHALL NOT BE LOCATED ON SIDEWALKS OR AREA DESIGNATED FOR PEDESTRIANS OR VEHICULAR TRAFFIC.
  4. EXISTING SIGNS IN CONFLICT WITH TRAFFIC MOVEMENTS SHALL BE TEMPORARILY COVERED.
  5. ALL LANE CLOSURES AND/OR TRAFFIC STOP SHALL BE AS PERMITTED BY NYSDOT.
  6. SEE NYSDOT STANDARD DRAWING 619-40 FOR LONGITUDINAL BUFFER SPACE BETWEEN LANE CLOSURES AND WORK ZONE. PROVIDE 2L SPACING BETWEEN LANE REDUCTIONS.



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	C-SHA-119		
DESIGNED BY:	A. SAMADI		
DRAWN BY:	A. SAMADI		
CHECKED BY:	S. QUARI		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

SUNRISE HIGHWAY

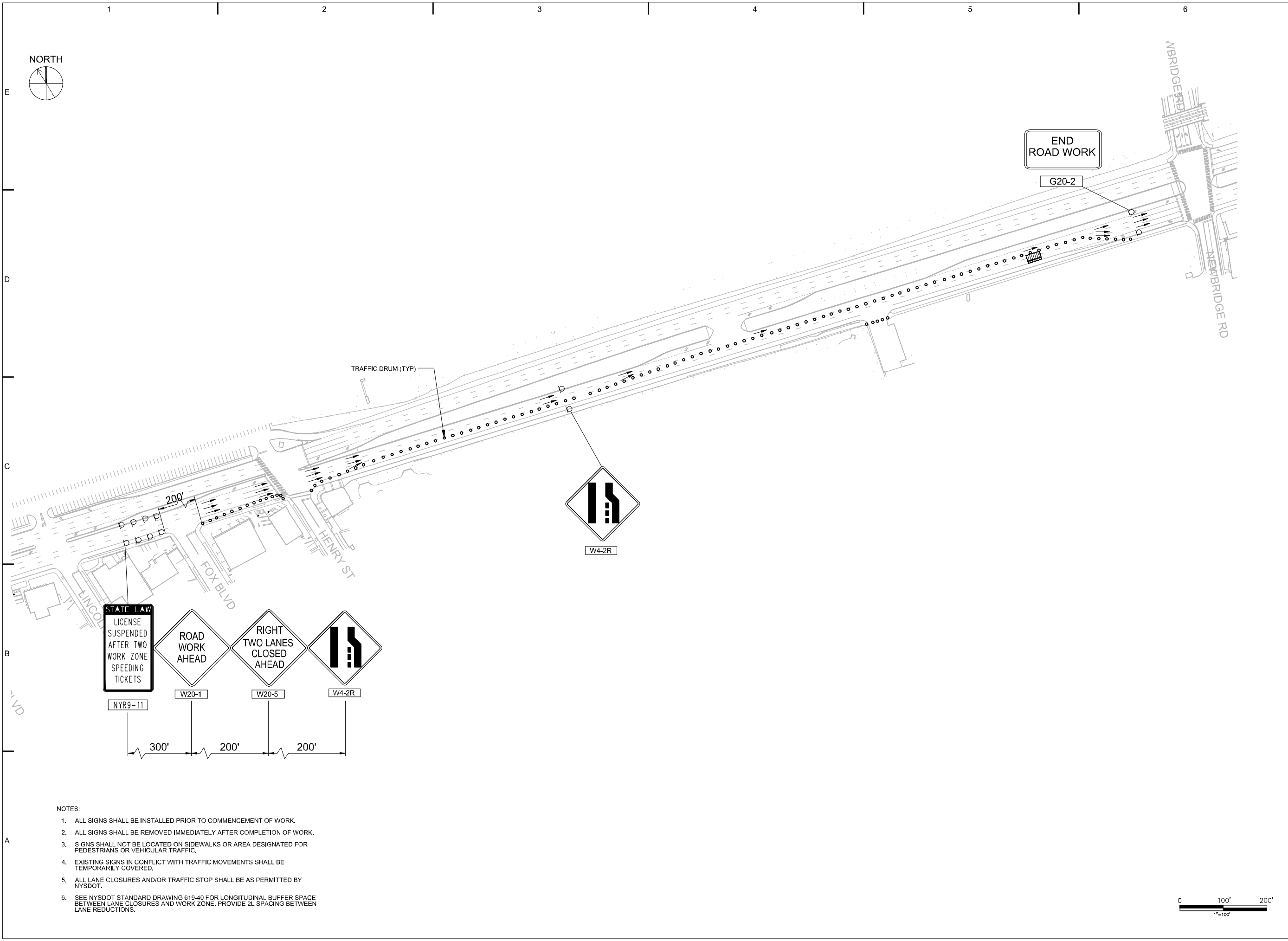
WORK ZONE TRAFFIC  
CONTROL STA. 954+96

SCALE: AS SHOWN

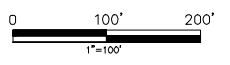
SH-C119

PAGE 167

User: ARBA, Spec: AUS/CS/MSD File: C:\BIB\SWSP\C11\LAB\DWG\SH-C11\LAB\DWG\SH-C11.DWG Scale: 1/4" = 100' Date: 3/19/2020 Time: 1:19 Pm Pld: Date: 3/19/2020 Time: 1:19 Pm Layout: WP5-084-00



- NOTES:
1. ALL SIGNS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF WORK.
  2. ALL SIGNS SHALL BE REMOVED IMMEDIATELY AFTER COMPLETION OF WORK.
  3. SIGNS SHALL NOT BE LOCATED ON SIDEWALKS OR AREA DESIGNATED FOR PEDESTRIANS OR VEHICULAR TRAFFIC.
  4. EXISTING SIGNS IN CONFLICT WITH TRAFFIC MOVEMENTS SHALL BE TEMPORARILY COVERED.
  5. ALL LANE CLOSURES AND/OR TRAFFIC STOP SHALL BE AS PERMITTED BY NYS DOT.
  6. SEE NYS DOT STANDARD DRAWING 619-40 FOR LONGITUDINAL BUFFER SPACE BETWEEN LANE CLOSURES AND WORK ZONE. PROVIDE 2L SPACING BETWEEN LANE REDUCTIONS.



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE: APRIL 2020

PROJECT NO.: PW-S3B116-03CR

FILE NAME: C-SHA-121

DESIGNED BY: A. SAMADI

DRAWN BY: A. SAMADI

CHECKED BY: S. QUABI

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

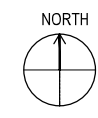
SUNRISE HIGHWAY

WORK ZONE TRAFFIC  
CONTROL STA. 984+91

SCALE: AS SHOWN

SH-C121

PAGE 168



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	SH-0101_0123		
DESIGNED BY:	M. BROWN		
DRAWN BY:	B. VAN BEEK		
CHECKED BY:	S. HAQ		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

SUNRISE HIGHWAY

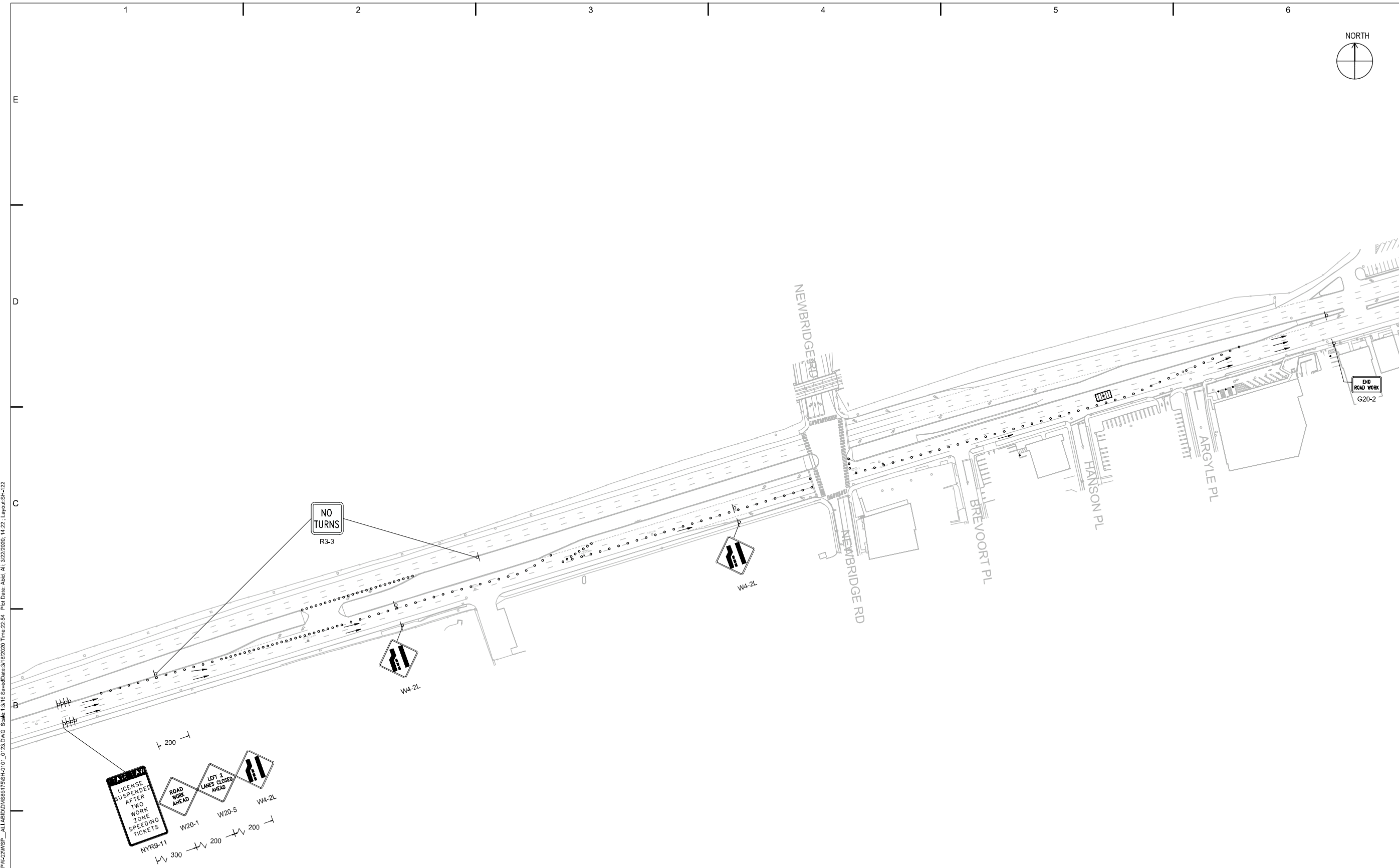
WORK ZONE TRAFFIC  
CONTROL STA. 994+73

SCALE: AS SHOWN



SH-C122

PAGE 169



- NOTES:
1. ALL SIGNS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF WORK.
  2. ALL SIGNS SHALL BE REMOVED IMMEDIATELY AFTER COMPLETION OF WORK.
  3. SIGNS SHALL NOT BE LOCATED ON SIDEWALKS OR AREA DESIGNATED FOR PEDESTRIANS OR VEHICULAR TRAFFIC.
  4. EXISTING SIGNS IN CONFLICT WITH TRAFFIC MOVEMENTS SHALL BE TEMPORARILY COVERED.
  5. ALL LANE CLOSURES AND/OR TRAFFIC STOP SHALL BE AS PERMITTED BY NYS DOT
  6. SEE NYS DOT STANDARD DRAWING 619-40 FOR LONGITUDINAL BUFFER SPACE BETWEEN LANE CLOSURES AND WORK ZONE. PROVIDE 2L SPACING BETWEEN LANE REDUCTIONS.

User: ARDA, Spec: AUS, CS: MDC, File: C:\BIB\MS\SP-CR-US-2\KZ\WSP\_AL\LABID\N\86175\SH-C122\_0123.DWG, Scale: 1/316, SweedDate: 3/18/2020, Time: 2:54, Plot Date: Add, All, 3/22/2020, 14:22, Layout: SH-C122



NORTH



1

2

3

4

5

6

E

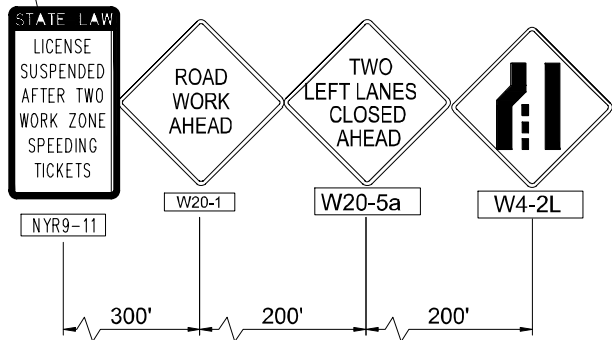
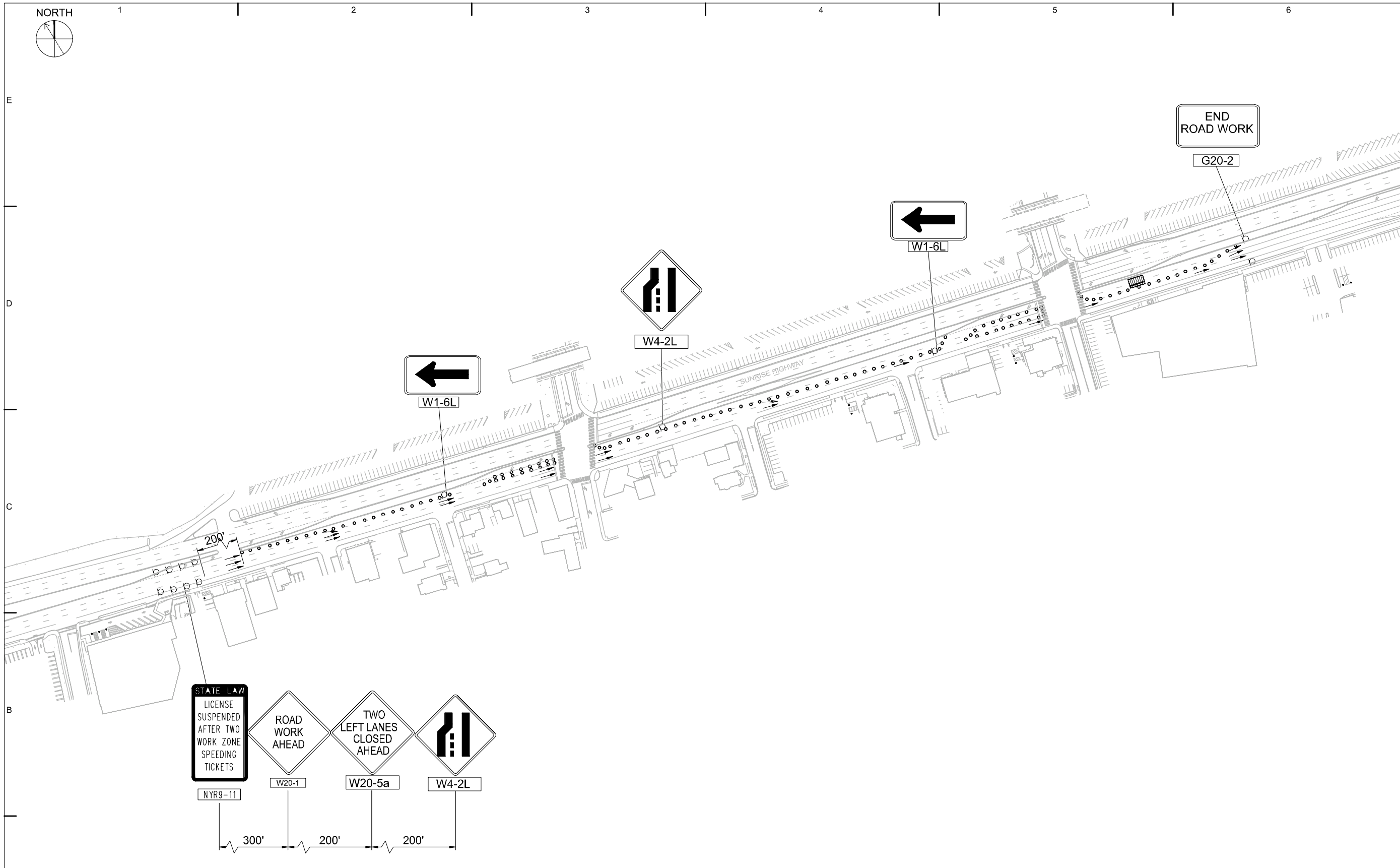
D

C

B

A

User:ABDA\_Spec:AUSA\CS\MOE File C:\BIS\SW\59-CB-Use\PH\AZ\WSP\_A\LABID\DWG\6175C-SHA-123.DWG Scale: 1/4"=100' Date: 3/19/2020 Time: 10:20 Pld: Date: 3/19/2020 Time: 14:25 Layout: WPT-1019-86



- NOTES:
1. ALL SIGNS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF WORK.
  2. ALL SIGNS SHALL BE REMOVED IMMEDIATELY AFTER COMPLETION OF WORK.
  3. SIGNS SHALL NOT BE LOCATED ON SIDEWALKS OR AREA DESIGNATED FOR PEDESTRIANS OR VEHICULAR TRAFFIC.
  4. EXISTING SIGNS IN CONFLICT WITH TRAFFIC MOVEMENTS SHALL BE TEMPORARILY COVERED.
  5. ALL LANE CLOSURES AND/OR TRAFFIC STOP SHALL BE AS PERMITTED BY NYS DOT.
  6. SEE NYS DOT STANDARD DRAWING 619-40 FOR LONGITUDINAL BUFFER SPACE BETWEEN LANE CLOSURES AND WORK ZONE. PROVIDE 2L SPACING BETWEEN LANE REDUCTIONS.



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APR 11 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	C-SHA-123		
DESIGNED BY:	A. SAMADI		
DRAWN BY:	A. SAMADI		
CHECKED BY:	S. QUABI		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

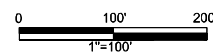
OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

SUNRISE HIGHWAY

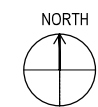
WORK ZONE TRAFFIC  
CONTROL STA. 1019+86

SCALE: AS SHOWN



SH-C123

PAGE 170



**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
FINAL DESIGN CRITERIA PACKAGE			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	SH-0101_0123		
DESIGNED BY:	M. BROWN		
DRAWN BY:	B. VAN BEEK		
CHECKED BY:	S. HAQ		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

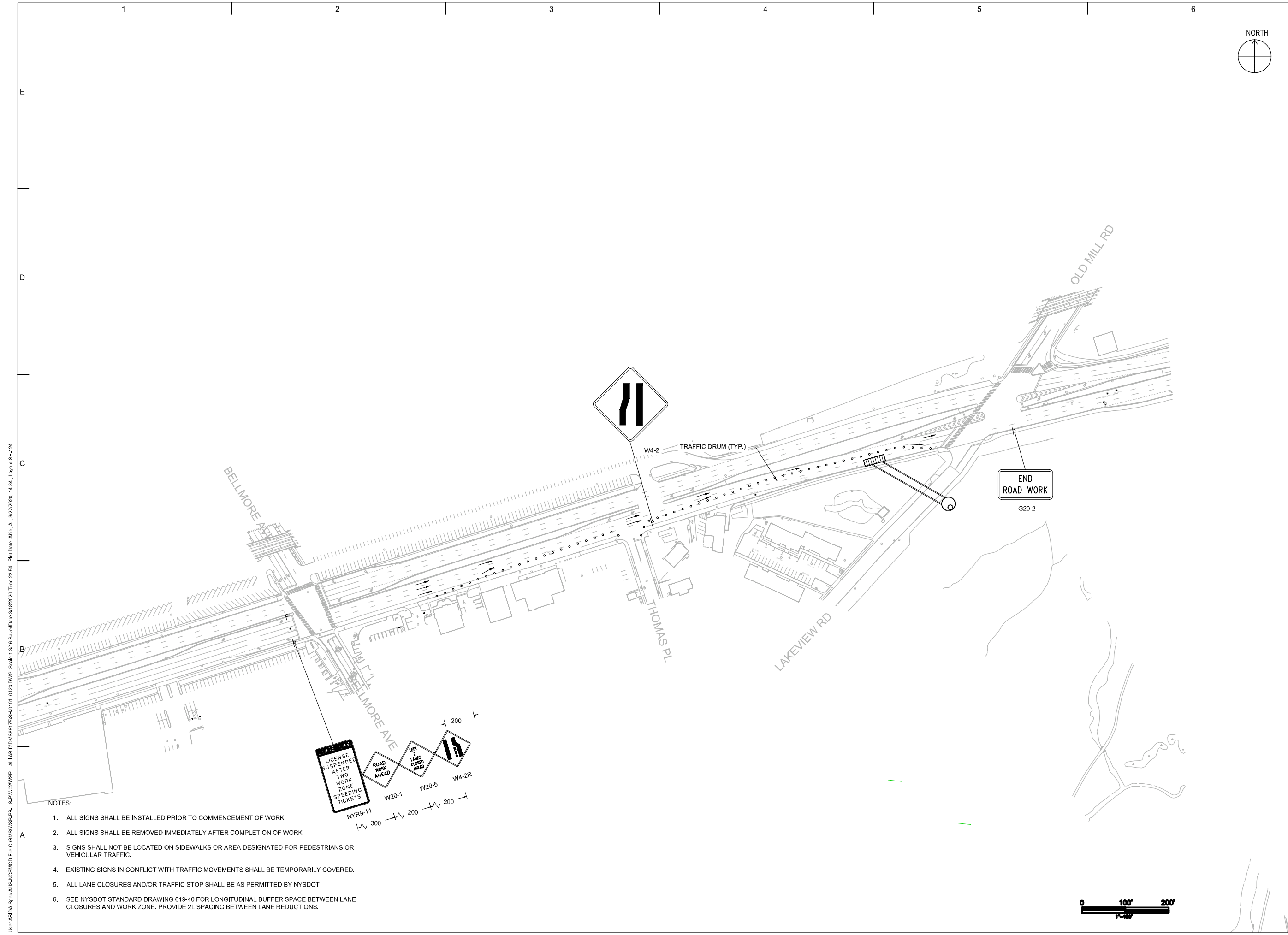
SUNRISE HIGHWAY

WORK ZONE TRAFFIC CONTROL STA. 1040+37

SCALE: AS SHOWN

SH-C124

PAGE 171

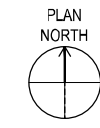


- NOTES:
1. ALL SIGNS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF WORK.
  2. ALL SIGNS SHALL BE REMOVED IMMEDIATELY AFTER COMPLETION OF WORK.
  3. SIGNS SHALL NOT BE LOCATED ON SIDEWALKS OR AREA DESIGNATED FOR PEDESTRIANS OR VEHICULAR TRAFFIC.
  4. EXISTING SIGNS IN CONFLICT WITH TRAFFIC MOVEMENTS SHALL BE TEMPORARILY COVERED.
  5. ALL LANE CLOSURES AND/OR TRAFFIC STOP SHALL BE AS PERMITTED BY NYSDOT
  6. SEE NYSDOT STANDARD DRAWING 619-40 FOR LONGITUDINAL BUFFER SPACE BETWEEN LANE CLOSURES AND WORK ZONE. PROVIDE 2L SPACING BETWEEN LANE REDUCTIONS.



User:ABDA\_Spec:AUSA\CS\MOE File C:\BIB\MS\SP-CR-05-24\KZ\WSP\_A\LABID\DWG\175914\10\_0123.DWG Scale: 1/316 SweedDate: 01/02/2020 Time: 22:54 Plot Date: Add: All 3/22/2020 14:34:1 Layout: SH-124





- LEGEND:**
- EXISTING AQUEDUCT ANCILLARY STRUCTURES INFORMATION
  - MANDATORY ITEMS
  - INDICATIVE ITEMS
  - AQUEDUCT TO BE SLIPLINED
  - 48" GATE VALVE (GV) TO BE REMOVED
  - PROPOSED WORK PIT
  - EXISTING AQUEDUCT ACCESS MANHOLE, BLOWOFF, AIR COCK, OR STRUCTURE AS INDICATED
  - PROPOSED ACCESS MH, WITH MANUAL AIR RELIEF VALVE (MARV), OR COMBINED AIR/VAC STRUCTURE (CAV) AS INDICATED

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON GOING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE: APRIL 2020

PROJECT NO.: PW-S3B116-03CR

FILE NAME: SH-C201\_C215

DESIGNED BY: W. CHAFFEE

DRAWN BY: J. JARRETT

CHECKED BY: S. HAQ

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

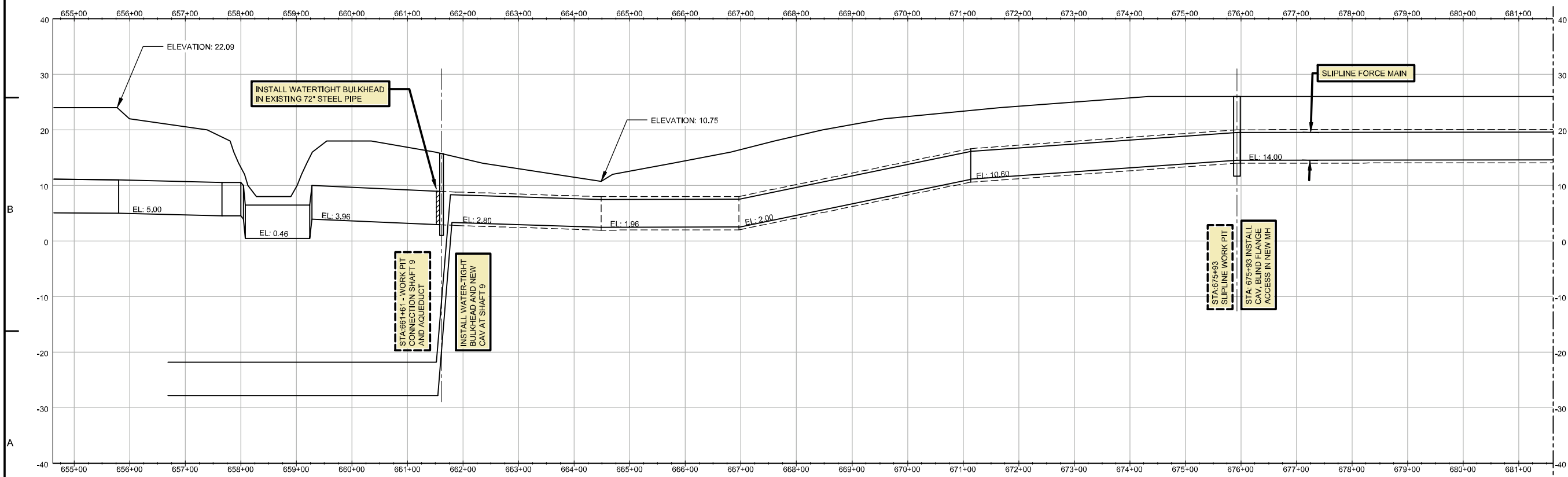
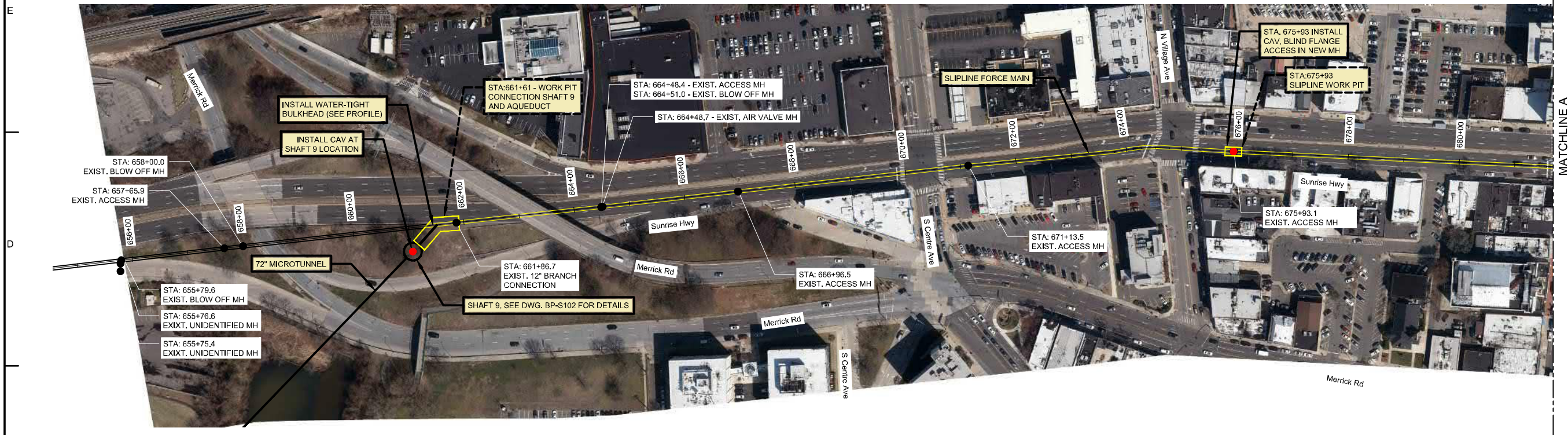
SUNRISE HIGHWAY

PLAN AND PROFILE 1

SCALE: AS SHOWN

**SH-C201**

PAGE 172

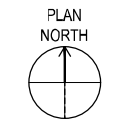


NOTE: ALL SURFACE ELEVATIONS SHOWN ARE APPROXIMATE. ALL INVERT ELEVATIONS SHOWN ARE APPROXIMATE FOR THE EXISTING AQUEDUCT 72" LOCKBAR PIPE.



User: AEDIA, Spec: AUS-KCSMCD, Pld: C:\BMS\WSP-PBL-US-PV-00\WSP\_PBL-US-PV-00\MS6190\SH-C201\_02\16.DWG, Scale: 1/12, Saved Date: 3/6/2020, Time: 16:01, Plot Date: Atd, At: 3/22/2020, 16:17, Layout: SH-C201





- LEGEND:**
- XXXXX — EXISTING AQUEDUCT ANCYLLARY STRUCTURES INFORMATION
  - XXXXX — MANDATORY ITEMS
  - XXXXX — INDICATIVE ITEMS
  - AQUEDUCT TO BE SLIPLINED
  - 48" GATE VALVE (GV) TO BE REMOVED
  - PROPOSED WORK PIT
  - EXISTING AQUEDUCT ACCESS MANHOLE, BLOWOFF, AIR COCK, OR STRUCTURE AS INDICATED
  - PROPOSED ACCESS MH, WITH MANUAL AIR RELIEF VALVE (MARV), OR COMBINED AIR/VAC STRUCTURE (CAV) AS INDICATED

**PRELIMINARY NOT FOR CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON GOING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	SH-C201_C215		
DESIGNED BY:	W. CHAFFEE		
DRAWN BY:	J. JARRETT		
CHECKED BY:	S. HAQ		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

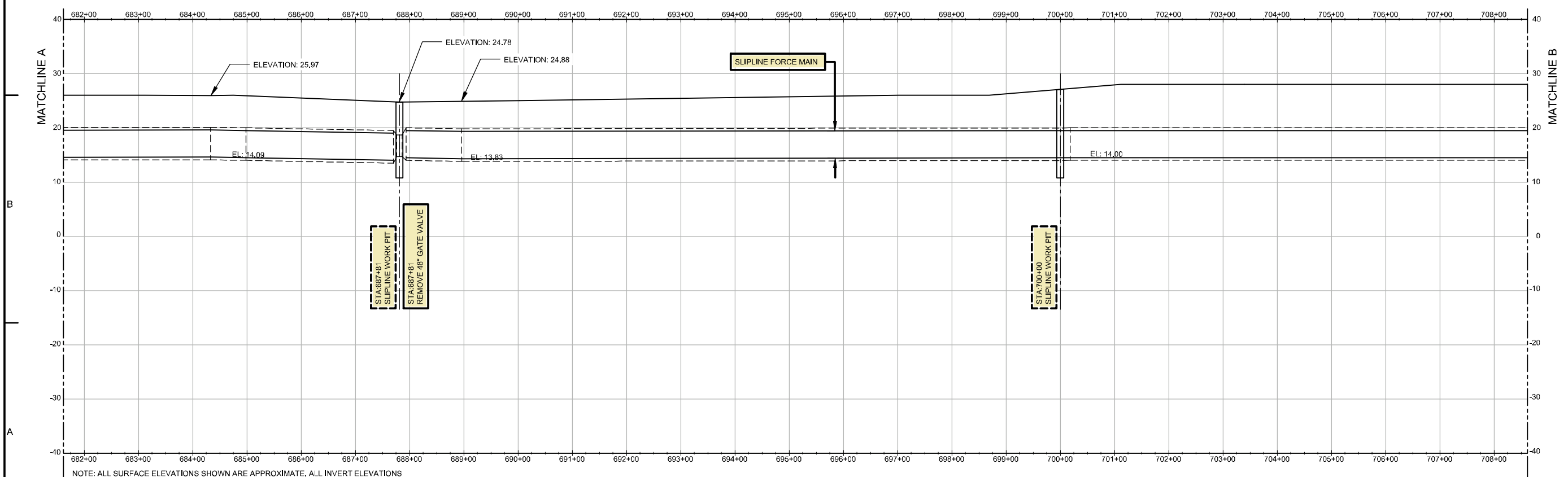
SHEET TITLE

SUNRISE HIGHWAY

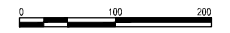
PLAN AND PROFILE 2

SCALE: AS SHOWN

SH-C202  
PAGE 173



NOTE: ALL SURFACE ELEVATIONS SHOWN ARE APPROXIMATE. ALL INVERT ELEVATIONS SHOWN ARE APPROXIMATE FOR THE EXISTING AQUEDUCT 72" LOCKBAR PIPE.



User: AED\A\_Spec\AUS\KCS\MOB\_PIB\_C:\BMS\WSP\FBUS\PV\DWG\SP\_A\LA\B\DWG\MS6\B0\SH-C201\_C215.DWG Scale: 1/12 Date: 3/6/2020 Time: 15:01 Plot Date: Atd, AI, 3/22/2020, 15:24, Layout: SH-C202





- LEGEND:**
- XXXXX → EXISTING AQUEDUCT ANCILLARY STRUCTURES INFORMATION
  - XXXXX → MANDATORY ITEMS
  - XXXXX → INDICATIVE ITEMS
  - AQUEDUCT TO BE SLIPLINED
  - 48" GATE VALVE (GV) TO BE REMOVED
  - PROPOSED WORK PIT
  - EXISTING AQUEDUCT ACCESS MANHOLE, BLOWOFF, AIR COCK, OR STRUCTURE AS INDICATED
  - PROPOSED ACCESS MH, WITH MANUAL AIR RELIEF VALVE (MARV), OR COMBINED AIR/VAC STRUCTURE (CAV) AS INDICATED

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON GOING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

FINAL DESIGN CRITERIA PACKAGE	
DATE:	JANUARY 2020
PROJECT NO.:	PW-S3B116-03CR
FILE NAME:	SH-C201_C215
DESIGNED BY:	W. CHAFFEE
DRAWN BY:	J. JARRETT
CHECKED BY:	S. HAQ

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

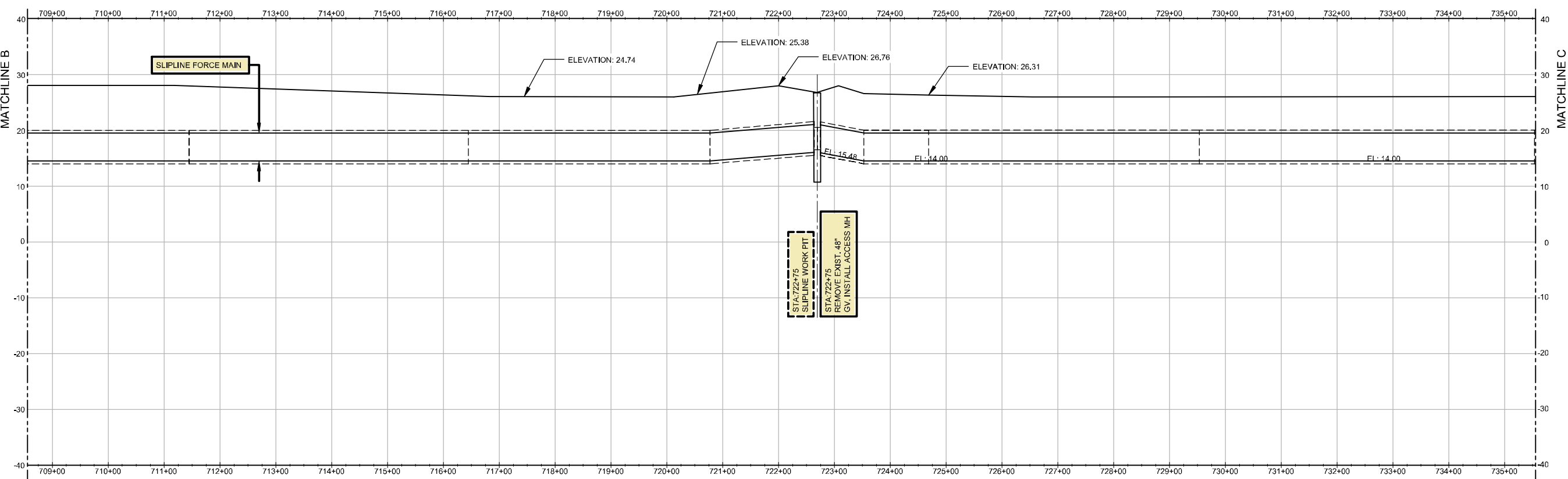
SUNRISE HIGHWAY

PLAN AND PROFILE 3

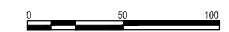
SCALE: AS SHOWN

SH-C203

PAGE 174

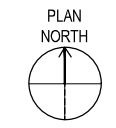


NOTE: ALL SURFACE ELEVATIONS SHOWN ARE APPROXIMATE. ALL INVERT ELEVATIONS SHOWN ARE APPROXIMATE FOR THE EXISTING AQUEDUCT 72" LOCKBAR PIPE.



User: AEDVA\_Spec: AUS-KCSMCD File: C:\BMS\WSP-PBL\US-PV\04\WSP\_P\ALL\BID\MS6190\SH-C201\_C215.DWG Scale: 1/12 Date: 03/22/2020 Time: 15:01 Plot Date: 04/01/2020 Time: 15:27 Layout: SH-C203





- LEGEND:**
- XXXXX → EXISTING AQUEDUCT ANCILLARY STRUCTURES INFORMATION
  - XXXXX → MANDATORY ITEMS
  - XXXXX → INDICATIVE ITEMS
  - AQUEDUCT TO BE SLIPLINED
  - 48" GATE VALVE (GV) TO BE REMOVED
  - PROPOSED WORK PIT
  - EXISTING AQUEDUCT ACCESS MANHOLE, BLOWOFF, AIR COCK, OR STRUCTURE AS INDICATED
  - PROPOSED ACCESS MH, WITH MANUAL AIR RELIEF VALVE (MARV), OR COMBINED AIR/VAC STRUCTURE (CAV) AS INDICATED

**PRELIMINARY NOT FOR CONSTRUCTION**  
DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

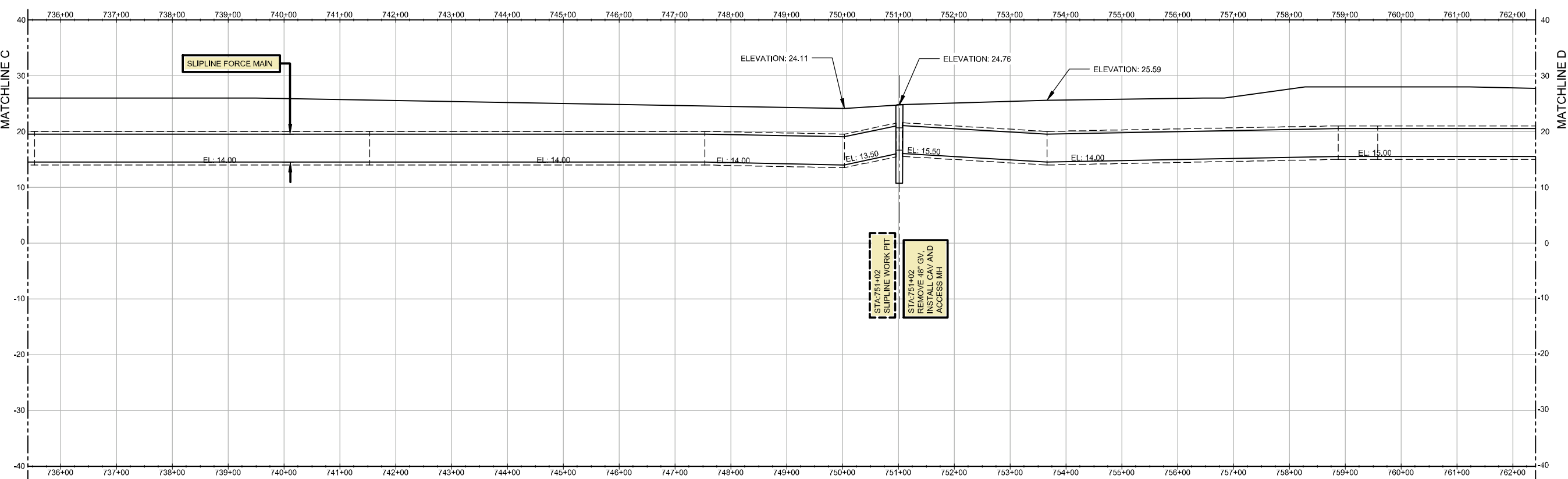
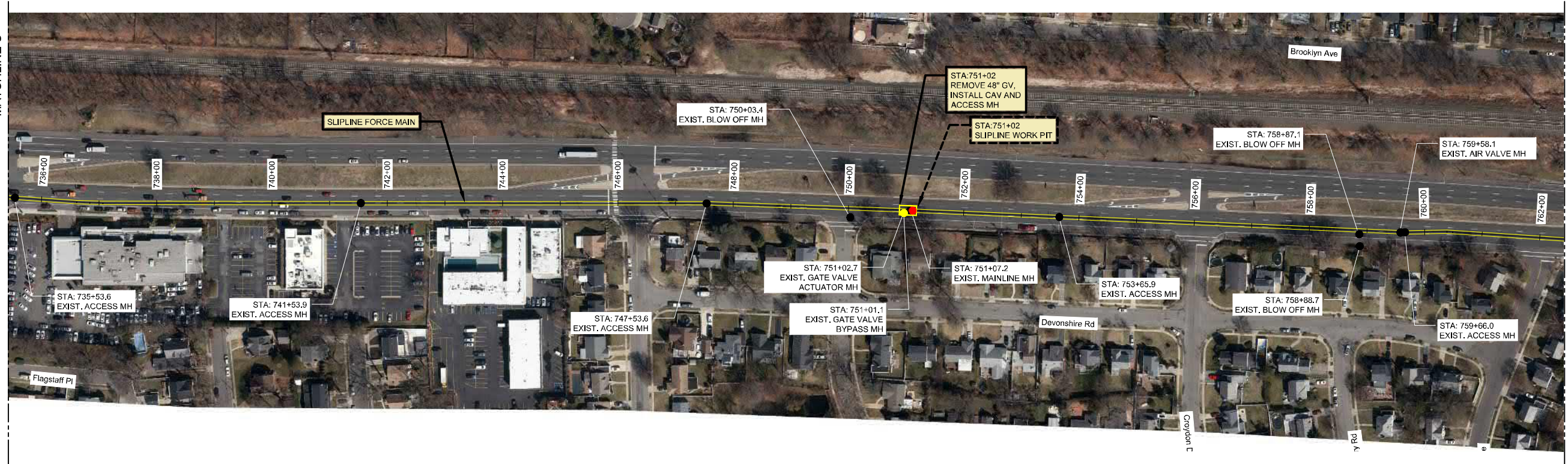
NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	SH-C201_C215		
DESIGNED BY:	W. CHAFFEE		
DRAWN BY:	J. JARRETT		
CHECKED BY:	S. HAQ		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS  
  
OCEAN OUTFALL EFFLUENT DIVERSION PROJECT

SHEET TITLE  
SUNRISE HIGHWAY  
  
PLAN AND PROFILE 4

SCALE: AS SHOWN

SH-C204  
PAGE 175



NOTE: ALL SURFACE ELEVATIONS SHOWN ARE APPROXIMATE. ALL INVERT ELEVATIONS SHOWN ARE APPROXIMATE FOR THE EXISTING AQUEDUCT 72" LOCKBAR PIPE.



User:ABIDA\_Spec:ALUS-NCSDM File: C:\BMS\WSP-PB-US-SP-14-02\DWG Scale: 1:12 SavedDate: 3/6/2020 Time: 6:01 Plot Date: April, AI: 3/22/2020 15:30 Layout: SH-C204





- LEGEND:**
- XXXXX — EXISTING AQUEDUCT ANCILLARY STRUCTURES INFORMATION
  - XXXXX — MANDATORY ITEMS
  - XXXXX — INDICATIVE ITEMS
  - AQUEDUCT TO BE SLIPLINED
  - 48" GATE VALVE (GV) TO BE REMOVED
  - PROPOSED WORK PIT
  - EXISTING AQUEDUCT ACCESS MANHOLE, BLOWOFF, AIR COCK, OR STRUCTURE AS INDICATED
  - PROPOSED ACCESS MH, WITH MANUAL AIR RELIEF VALVE (MARV); OR COMBINED AIR/VAC STRUCTURE (CAV) AS INDICATED

**PRELIMINARY NOT FOR CONSTRUCTION**  
DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON GOING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN CRITERIA PACKAGE**

DATE: APRIL 2020

PROJECT NO.: PW-S3B116-03CR

FILE NAME: SH-C201\_C215

DESIGNED BY: W. CHAFFEE

DRAWN BY: J. JARRETT

CHECKED BY: S. HAQ

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

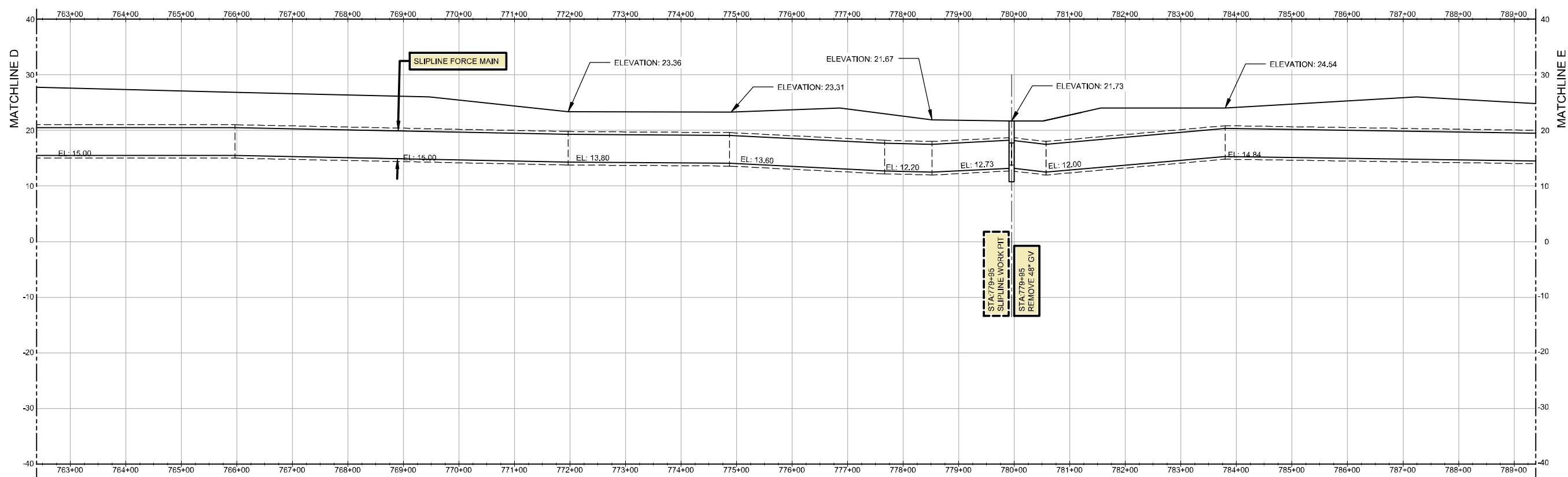
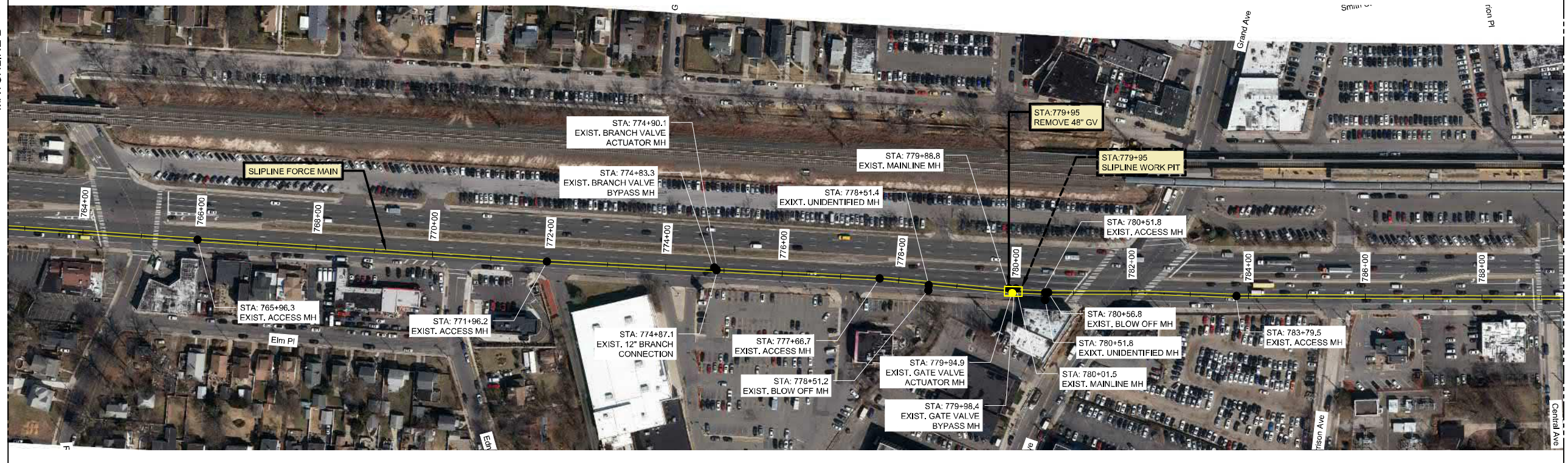
SUNRISE HIGHWAY

PLAN AND PROFILE 5

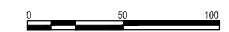
SCALE: AS SHOWN

SH-C205

PAGE 176

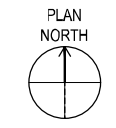


NOTE: ALL SURFACE ELEVATIONS SHOWN ARE APPROXIMATE. ALL INVERT ELEVATIONS SHOWN ARE APPROXIMATE FOR THE EXISTING AQUEDUCT 72" LOCKBAR PIPE.



User: AED\A\_Spec\AUS\NCMS\CD Pib\C\BMS\WSP\FBUS\PV\CDWSP\_A\LA\B\B\MS6\B\SH-C201\_C215.DWG Scale: 1/12 Date: 3/6/2020 Time: 15:01 Plot Date: Atd, Al: 3/22/2020, 15:31 Layout: SH-C205





- LEGEND:**
- XXXXX — EXISTING AQUEDUCT ANCILLARY STRUCTURES INFORMATION
  - XXXXX — MANDATORY ITEMS
  - XXXXX — INDICATIVE ITEMS
  - AQUEDUCT TO BE SLIPLINED
  - 48" GATE VALVE (GV) TO BE REMOVED
  - PROPOSED WORK PIT
  - EXISTING AQUEDUCT ACCESS MANHOLE, BLOWOFF, AIR COCK, OR STRUCTURE AS INDICATED
  - PROPOSED ACCESS MH, WITH MANUAL AIR RELIEF VALVE (MARV), OR COMBINED AIR/VAC STRUCTURE (CAV) AS INDICATED

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON GOING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE: APRIL 2020

PROJECT NO.: PW-S3B116-03CR

FILE NAME: SH-C201\_C215

DESIGNED BY: W. CHAFFEE

DRAWN BY: J. JARRETT

CHECKED BY: S. HAQ

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

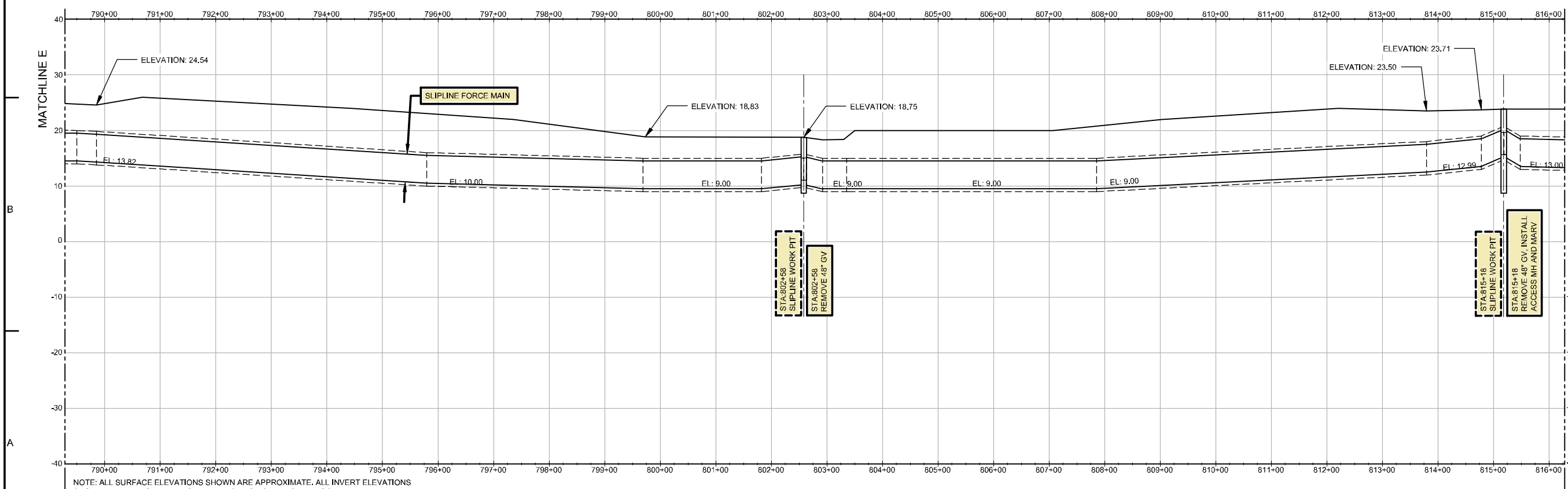
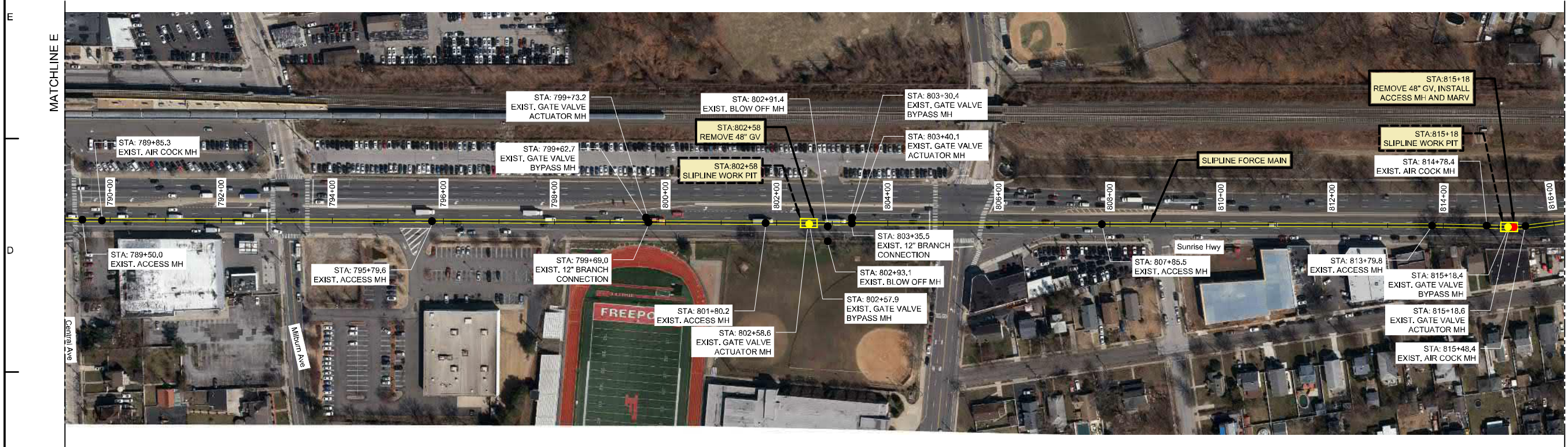
SUNRISE HIGHWAY

PLAN AND PROFILE 6

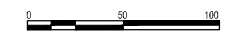
SCALE: AS SHOWN

SH-C206

PAGE 177



NOTE: ALL SURFACE ELEVATIONS SHOWN ARE APPROXIMATE. ALL INVERT ELEVATIONS SHOWN ARE APPROXIMATE FOR THE EXISTING AQUEDUCT 72" LOCKBAR PIPE.



User: AEDVA\_Spec: AUS-KCSMCD\_Plan: C:\BMS\WSP-PBUS-PV-02\WSP\_Plan\AEDVA\BMS\MS6\BOS\SH-C201\_C215.DWG Scale: 1/12 Saved Date: 3/6/2020 Time: 15:01 Plot Date: Aed, Ai, 3/22/2020, 15:33 Layout: SH-C206





- LEGEND:**
- XXXXX — EXISTING AQUEDUCT ANCILLARY STRUCTURES INFORMATION
  - XXXXX — MANDATORY ITEMS
  - XXXXX — INDICATIVE ITEMS
  - AQUEDUCT TO BE SLIPLINED
  - 48" GATE VALVE (GV) TO BE REMOVED
  - PROPOSED WORK PIT
  - EXISTING AQUEDUCT ACCESS MANHOLE, BLOWOFF, AIR COCK, OR STRUCTURE AS INDICATED
  - PROPOSED ACCESS MH, WITH MANUAL AIR RELIEF VALVE (MARV), OR COMBINED AIR/VAC STRUCTURE (CAV) AS INDICATED

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	SH-C201_C215		
DESIGNED BY:	W. CHAFFEE		
DRAWN BY:	J. JARRETT		
CHECKED BY:	S. HAQ		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

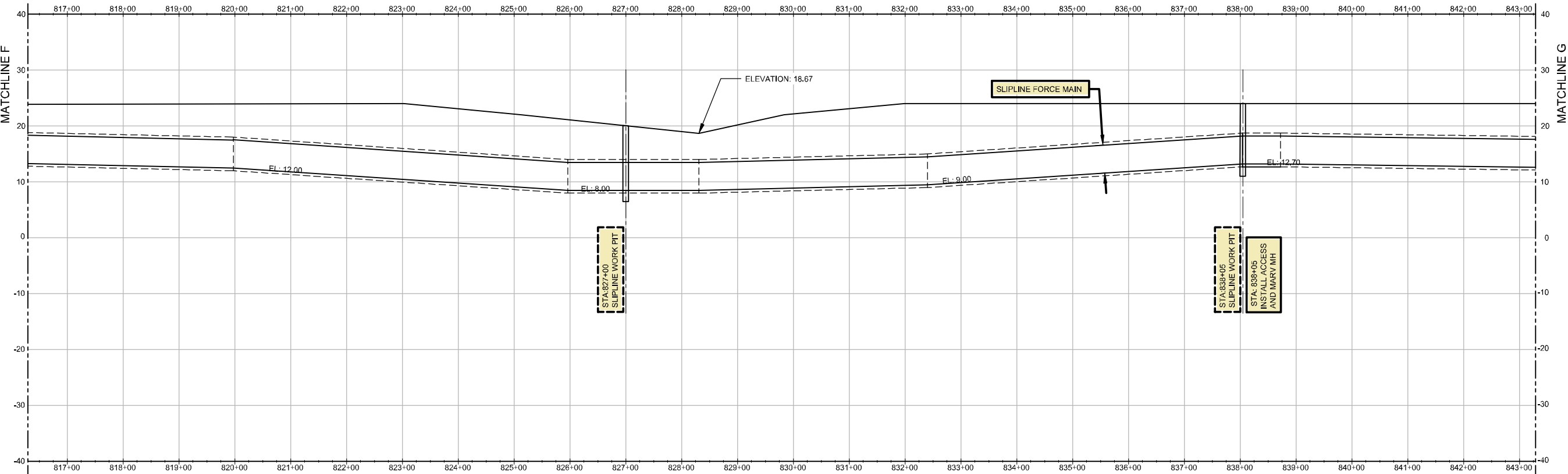
SHEET TITLE

SUNRISE HIGHWAY

PLAN AND PROFILE 7

SCALE: AS SHOWN

**SH-C207**  
PAGE 178



NOTE: ALL SURFACE ELEVATIONS SHOWN ARE APPROXIMATE. ALL INVERT ELEVATIONS SHOWN ARE APPROXIMATE FOR THE EXISTING AQUEDUCT 72" LOCKBAR PIPE.



User:ABIDA\_Spec:ALUS-NC5MOD\_Plot: C:\BMS\SWSP-PB-US-SP-14-CRISPSP...\_ALL\BID\056160\SH-C201\_C215.DWG Scale: 1:12 SaveDate: 3/6/2020 Time: 6:01 Plot Date: April, 3/22/2020 15:40 Layout: SH-C207





- LEGEND:**
- XXXXX — EXISTING AQUEDUCT ANCILLARY STRUCTURES INFORMATION
  - XXXXX — MANDATORY ITEMS
  - XXXXX — INDICATIVE ITEMS
  - AQUEDUCT TO BE SLIPLINED
  - 48" GATE VALVE (GV) TO BE REMOVED
  - PROPOSED WORK PIT
  - EXISTING AQUEDUCT ACCESS MANHOLE, BLOWOFF, AIR COCK, OR STRUCTURE AS INDICATED
  - PROPOSED ACCESS MH, WITH MANUAL AIR RELIEF VALVE (MARV), OR COMBINED AIR/VAC STRUCTURE (CAV) AS INDICATED

**PRELIMINARY NOT FOR CONSTRUCTION**  
DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

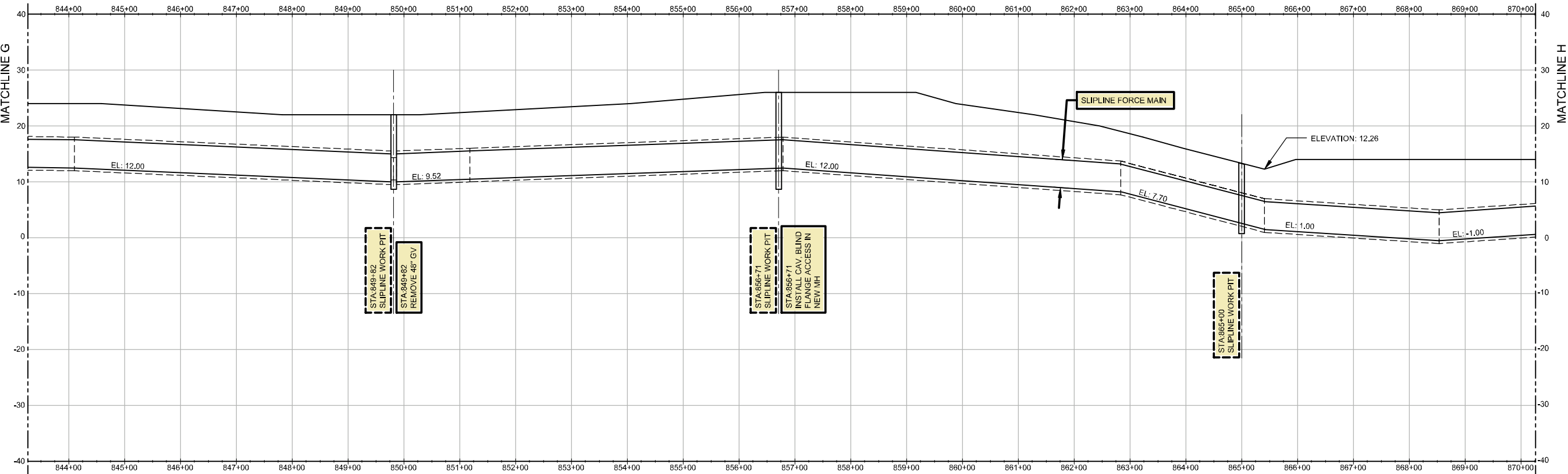
NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	SH-C201_C215		
DESIGNED BY:	W. CHAFFEE		
DRAWN BY:	J. JARRETT		
CHECKED BY:	S. HAQ		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS  
  
OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

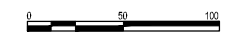
SHEET TITLE  
**SUNRISE HIGHWAY  
PLAN AND PROFILE 8**

SCALE: AS SHOWN

**SH-C208**  
PAGE 179

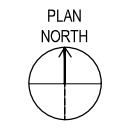


NOTE: ALL SURFACE ELEVATIONS SHOWN ARE APPROXIMATE. ALL INVERT ELEVATIONS SHOWN ARE APPROXIMATE FOR THE EXISTING AQUEDUCT 72" LOCKBAR PIPE.



User:ABIDA\_Spec:ALUS-NCM000\_Plot:0: (MMS)WSP-PW-S3B116-03CR-PLAN AND PROFILE 8 - 04/20/2020 15:39:11 - Layout:SH-C208





- LEGEND:**
- XXXXX → EXISTING AQUEDUCT ANCILLARY STRUCTURES INFORMATION
  - XXXXX → MANDATORY ITEMS
  - XXXXX → INDICATIVE ITEMS
  - — — — — AQUEDUCT TO BE SLIPLINED
  - 48" GATE VALVE (GV) TO BE REMOVED
  - PROPOSED WORK PIT
  - EXISTING AQUEDUCT ACCESS MANHOLE, BLOWOFF, AIR COCK, OR STRUCTURE AS INDICATED
  - PROPOSED ACCESS MH, WITH MANUAL AIR RELIEF VALVE (MARV); OR COMBINED AIR/VAC STRUCTURE (CAV) AS INDICATED

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE: APRIL 2020

PROJECT NO.: PW-S3B116-03CR

FILE NAME: SH-C201\_C215

DESIGNED BY: W. CHAFFEE

DRAWN BY: J. JARRETT

CHECKED BY: S. HAO

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

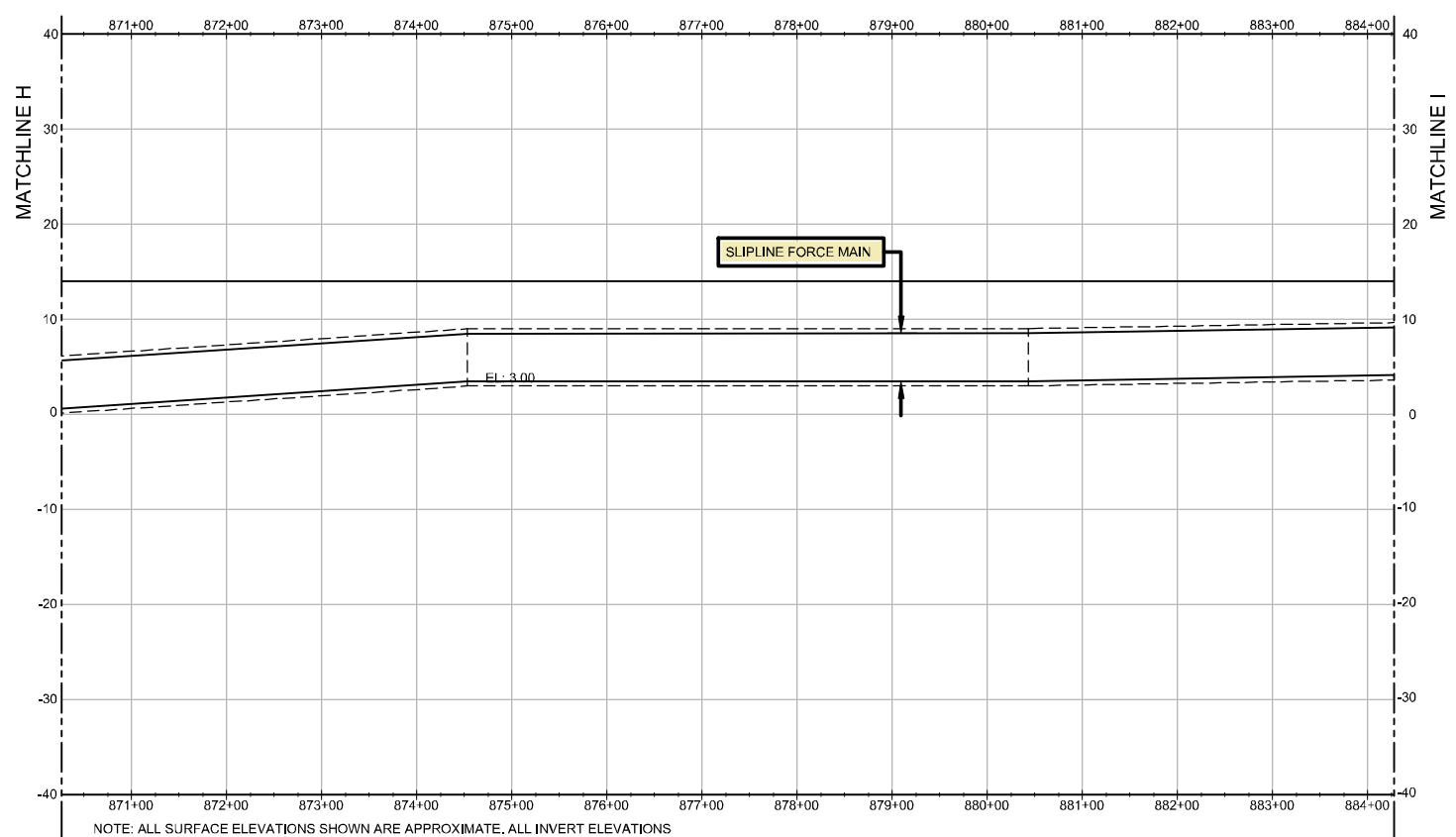
SUNRISE HIGHWAY

PLAN AND PROFILE 9

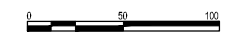
SCALE: AS SHOWN

**SH-C209**

PAGE 180

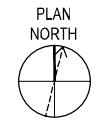


NOTE: ALL SURFACE ELEVATIONS SHOWN ARE APPROXIMATE, ALL INVERT ELEVATIONS SHOWN ARE APPROXIMATE FOR THE EXISTING AQUEDUCT 72" LOCKBAR PIPE.



User:ABIDA\_Spec:ALUS-NC5MOD\_Plot:0 BIM:SWSP-PB-US-4142WSP...\_ALL:ABID:0561919:SH-C201\_C215.DWG Scale: 1:12 Saved:Date:3/6/2020 Time:16:01 Plot Date: April, 04, 2020 15:41 Layout:SH-C209





- LEGEND:**
- XXXXX → EXISTING AQUEDUCT ANCILLARY STRUCTURES INFORMATION
  - XXXXX → MANDATORY ITEMS
  - XXXXX → INDICATIVE ITEMS
  - AQUEDUCT TO BE SLIPLINED
  - 48" GATE VALVE (GV) TO BE REMOVED
  - PROPOSED WORK PIT
  - EXISTING AQUEDUCT ACCESS MANHOLE, BLOWOFF, AIR COCK, OR STRUCTURE AS INDICATED
  - PROPOSED ACCESS MH, WITH MANUAL AIR RELIEF VALVE (MARV); OR COMBINED AIR/VAC STRUCTURE (CAV) AS INDICATED

**PRELIMINARY NOT FOR CONSTRUCTION**  
DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

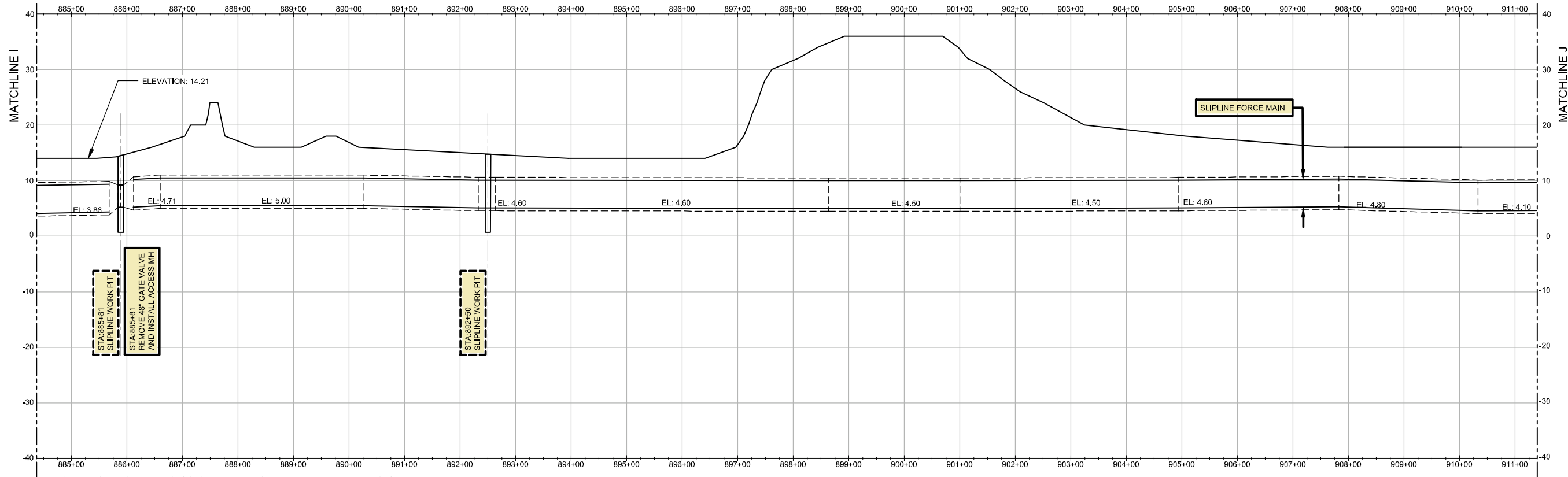
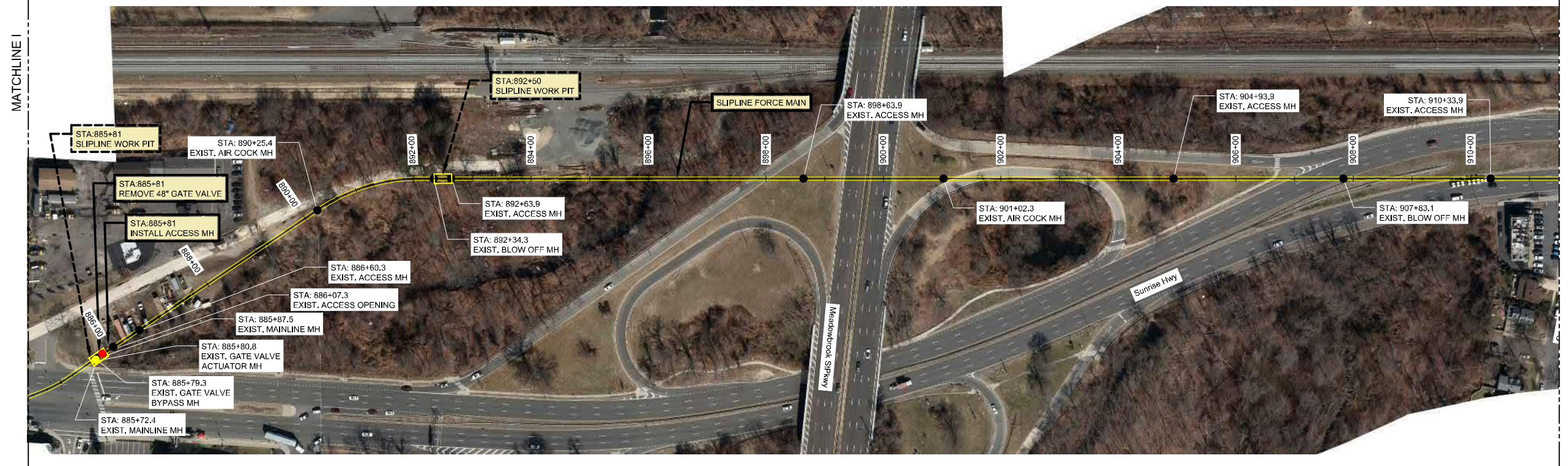
FINAL DESIGN CRITERIA PACKAGE			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	SH-C201_C215		
DESIGNED BY:	W. CHAFFEE		
DRAWN BY:	J. JARRETT		
CHECKED BY:	S. HAQ		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS  
  
OCEAN OUTFALL EFFLUENT DIVERSION PROJECT

SHEET TITLE  
SUNRISE HIGHWAY  
PLAN AND PROFILE 10

SCALE: AS SHOWN

SH-C210  
PAGE 181



NOTE: ALL SURFACE ELEVATIONS SHOWN ARE APPROXIMATE. ALL INVERT ELEVATIONS SHOWN ARE APPROXIMATE FOR THE EXISTING AQUEDUCT 72" LOCKBAR PIPE.



User:ABIDA\_Spec:ALUS-NC5MOD\_Plot: C:\BMS\SWSP-PB-US-NC5MOD\SP...\_ALL\BID\DWG\SH-C201\_C215.DWG Scale: 1:12 SavedDate: 3/6/2020 Time: 6:01 Plot Date: Abid, Al, 3/22/2020, 15:45 Layout: SH-C210



1 2 3 4 5 6



- LEGEND:**
- XXXXX → EXISTING AQUEDUCT ANCILLARY STRUCTURES INFORMATION
  - XXXXX → MANDATORY ITEMS
  - XXXXX → INDICATIVE ITEMS
  - AQUEDUCT TO BE SLIPLINED
  - 48" GATE VALVE (GV) TO BE REMOVED
  - PROPOSED WORK PIT
  - EXISTING AQUEDUCT ACCESS MANHOLE, BLOWOFF, AIR COCK, OR STRUCTURE AS INDICATED
  - PROPOSED ACCESS MH, WITH MANUAL AIR RELIEF VALVE (MARV), OR COMBINED AIR/VAC STRUCTURE (CAV) AS INDICATED

**PRELIMINARY NOT FOR CONSTRUCTION**  
DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

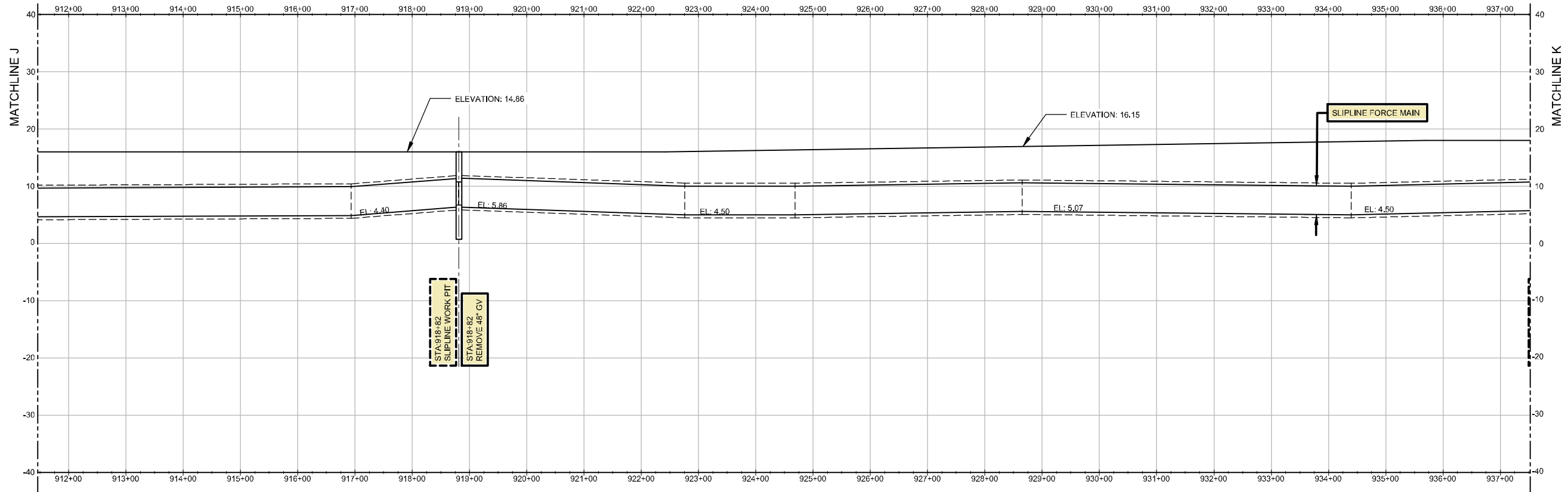
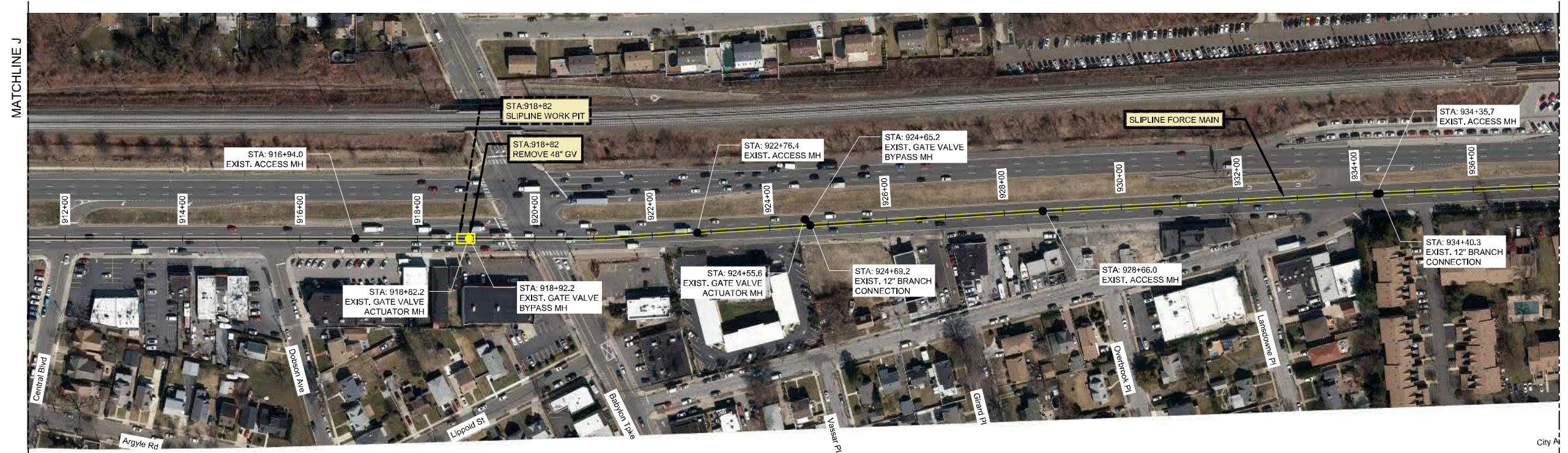
NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	SH-C201_C215		
DESIGNED BY:	W. CHAFFEE		
DRAWN BY:	J. JARRETT		
CHECKED BY:	S. HAQ		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS  
  
OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE  
SUNRISE HIGHWAY  
  
PLAN AND PROFILE 11

SCALE: AS SHOWN

SH-C211  
PAGE 182



NOTE: ALL SURFACE ELEVATIONS SHOWN ARE APPROXIMATE. ALL INVERT ELEVATIONS SHOWN ARE APPROXIMATE FOR THE EXISTING AQUEDUCT 72" LOCKBAR PIPE.



User:ABIDA\_Spec:ALUS:CSMOD File: C:\BMS\WSP\B-P\US-PC\DWG\SP...\_ALL\BID\0561619\SH-C201\_C215.DWG Scale: 1:12 SavedDate: 3/6/2020 Time: 6:01 Plot Date: Abid, Al, 3/22/2020 15:48 Layout: SH-C211





- LEGEND:**
- XXXXX → EXISTING AQUEDUCT ANCILLARY STRUCTURES INFORMATION
  - XXXXX → MANDATORY ITEMS
  - XXXXX → INDICATIVE ITEMS
  - AQUEDUCT TO BE SLIPLINED
  - 48" GATE VALVE (GV) TO BE REMOVED
  - PROPOSED WORK PIT
  - EXISTING AQUEDUCT ACCESS MANHOLE, BLOWOFF, AIR COCK, OR STRUCTURE AS INDICATED
  - PROPOSED ACCESS MH, WITH MANUAL AIR RELIEF VALVE (MARV), OR COMBINED AIR/VAC STRUCTURE (CAV) AS INDICATED

**PRELIMINARY NOT FOR CONSTRUCTION**  
DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

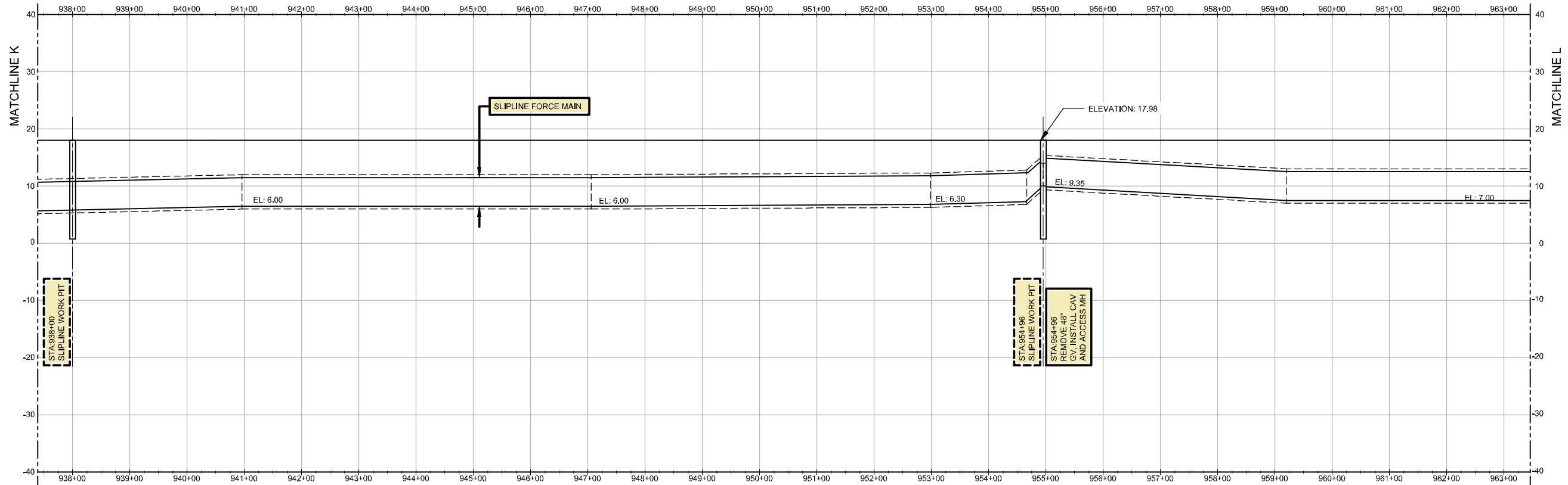
NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	SH-C201_C215		
DESIGNED BY:	W. CHAFFEE		
DRAWN BY:	J. JARRETT		
CHECKED BY:	S. HAQ		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS  
  
OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE  
**SUNRISE HIGHWAY  
PLAN AND PROFILE 12**

SCALE: AS SHOWN

**SH-C212**  
PAGE 183



NOTE: ALL SURFACE ELEVATIONS SHOWN ARE APPROXIMATE. ALL INVERT ELEVATIONS SHOWN ARE APPROXIMATE FOR THE EXISTING AQUEDUCT 72" LOCKBAR PIPE.

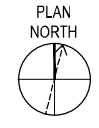


User:ABIDA\_Spec:ALUS-NC5MOD\_Plot: C:\BMS\SWSP-PB-US-PC\DWG\_Scale: 1:12 SavedDate: 3/6/2020 Time: 6:01 Plot Date: April, 04, 2020 15:51 Layout: SH-C212









- LEGEND:**
- XXXXX — EXISTING AQUEDUCT ANCILLARY STRUCTURES INFORMATION
  - XXXXX — MANDATORY ITEMS
  - XXXXX — INDICATIVE ITEMS
  - AQUEDUCT TO BE SLIPLINED
  - 48" GATE VALVE (GV) TO BE REMOVED
  - PROPOSED WORK PIT
  - EXISTING AQUEDUCT ACCESS MANHOLE, BLOWOFF, AIR COCK, OR STRUCTURE AS INDICATED
  - PROPOSED ACCESS MH, WITH MANUAL AIR RELIEF VALVE (MARV), OR COMBINED AIR/VAC STRUCTURE (CAV) AS INDICATED

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

**FINAL DESIGN  
CRITERIA PACKAGE**

DATE: APR 20 2020  
 PROJECT NO.: PW-S3B116-03CR  
 FILE NAME: SH-C201\_C215  
 DESIGNED BY: W. CHAFFEE  
 DRAWN BY: J. JARRETT  
 CHECKED BY: S. HAQ

NASSAU COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC  
 WORKS

OCEAN OUTFALL  
 EFFLUENT DIVERSION  
 PROJECT

SHEET TITLE

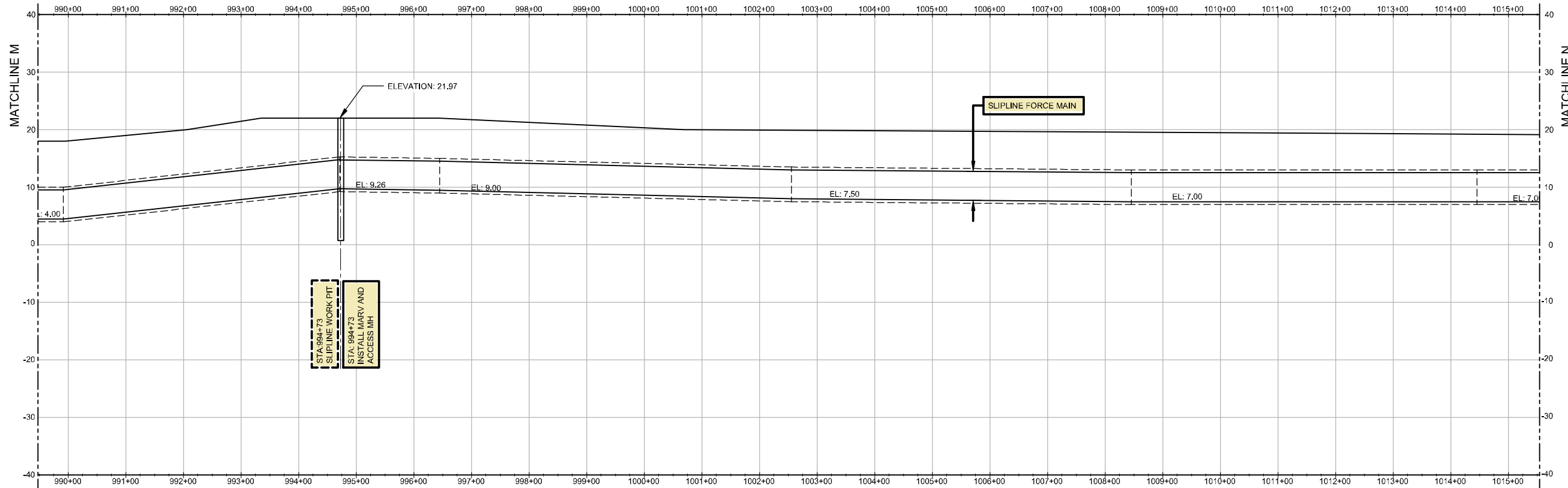
SUNRISE HIGHWAY

PLAN AND PROFILE 14

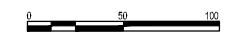
SCALE: AS SHOWN

**SH-C214**

PAGE 185



NOTE: ALL SURFACE ELEVATIONS SHOWN ARE APPROXIMATE. ALL INVERT ELEVATIONS SHOWN ARE APPROXIMATE FOR THE EXISTING AQUEDUCT 72" LOCKBAR PIPE.



User:ABIDA\_Spec:ALUS-NC5MOD\_Plot: C:\GIS\SWSP\PS\US-PS\US-PS\US-PS\C201\_C215.DWG Scale: 1:12 Saved: 04/20/2020 Time: 15:57 Plot Date: 04/20/2020 Time: 15:57 Plot Date: 04/20/2020 Time: 15:57 Layout: SH-C214





- LEGEND:**
- XXXXX → EXISTING AQUEDUCT ANCILLARY STRUCTURES INFORMATION
  - XXXXX → MANDATORY ITEMS
  - XXXXX → INDICATIVE ITEMS
  - AQUEDUCT TO BE SLIPLINED
  - 48" GATE VALVE (GV) TO BE REMOVED
  - PROPOSED WORK PIT
  - EXISTING AQUEDUCT ACCESS MANHOLE, BLOWOFF, AIR COCK, OR STRUCTURE AS INDICATED
  - PROPOSED ACCESS MH, WITH MANUAL AIR RELIEF VALVE (MARV), OR COMBINED AIR/VAC STRUCTURE (CAV) AS INDICATED

**PRELIMINARY NOT FOR CONSTRUCTION**  
DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

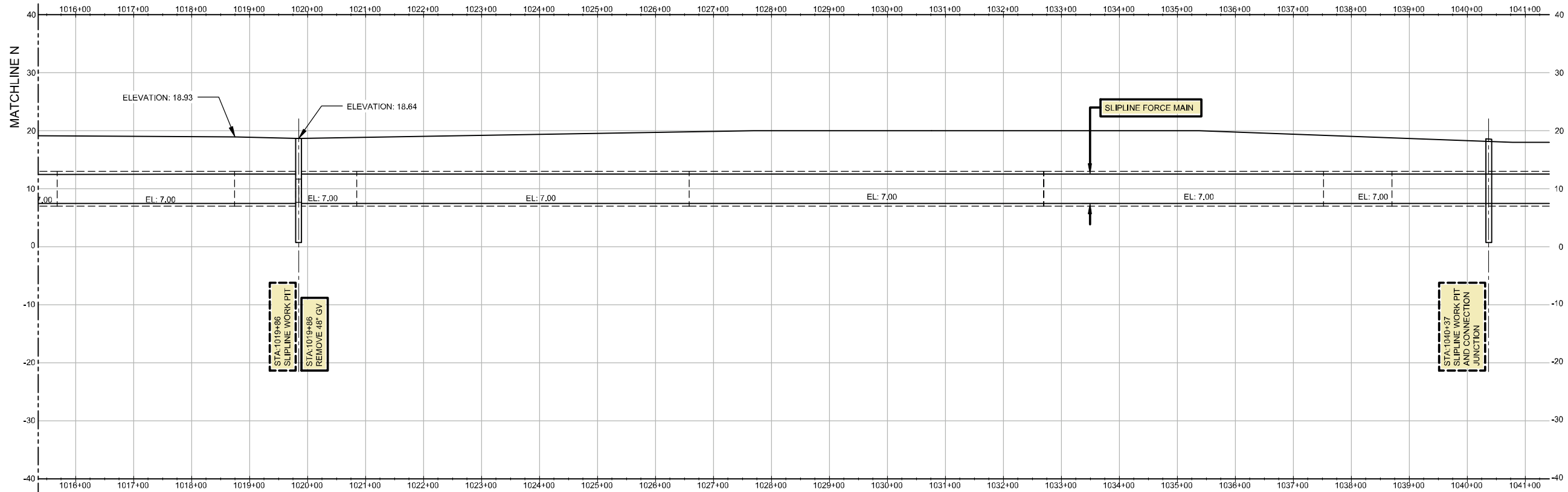
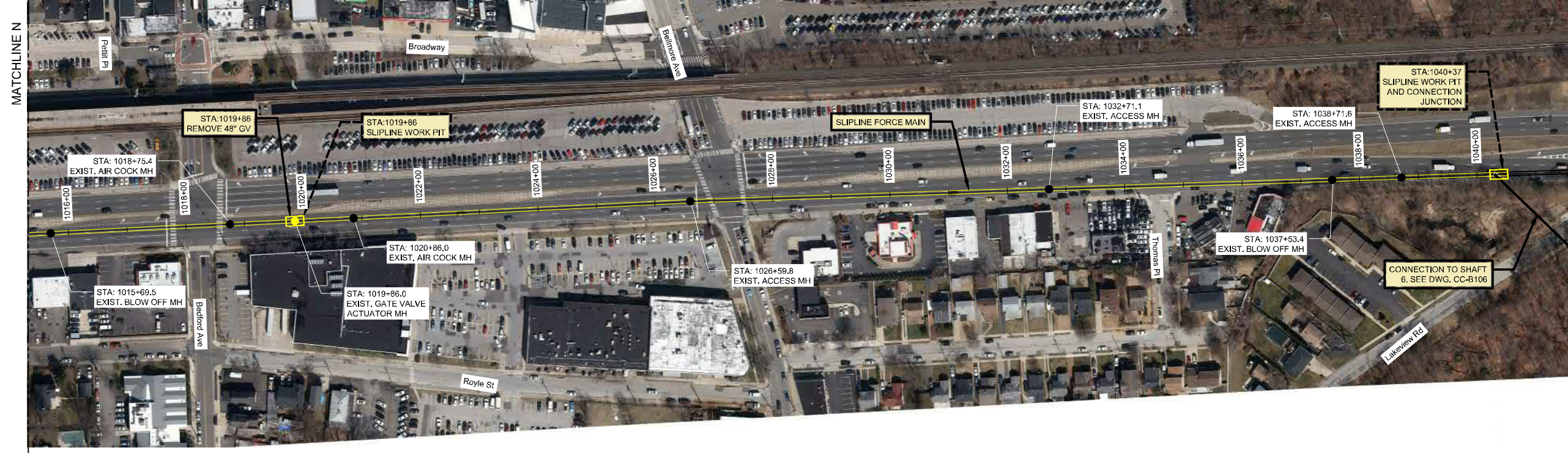
NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APR 20 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	SH-C201_C215		
DESIGNED BY:	W. CHAFFEE		
DRAWN BY:	J. JARRETT		
CHECKED BY:	S. HAQ		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS  
  
OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

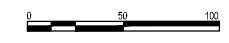
SHEET TITLE  
**SUNRISE HIGHWAY  
PLAN AND PROFILE 15**

SCALE: AS SHOWN

**SH-C215**  
PAGE 186

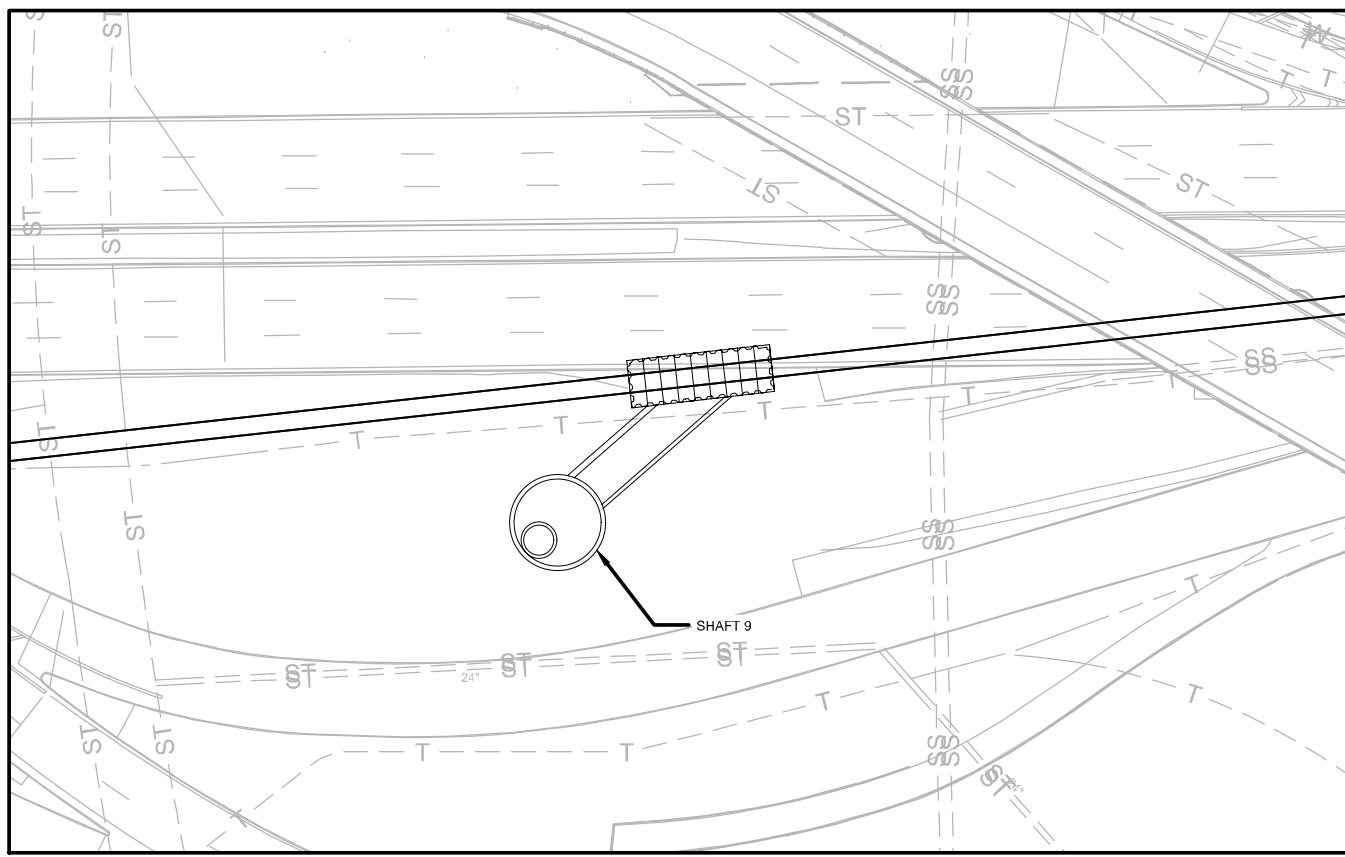


NOTE: ALL SURFACE ELEVATIONS SHOWN ARE APPROXIMATE. ALL INVERT ELEVATIONS SHOWN ARE APPROXIMATE FOR THE EXISTING AQUEDUCT 72" LOCKBAR PIPE.

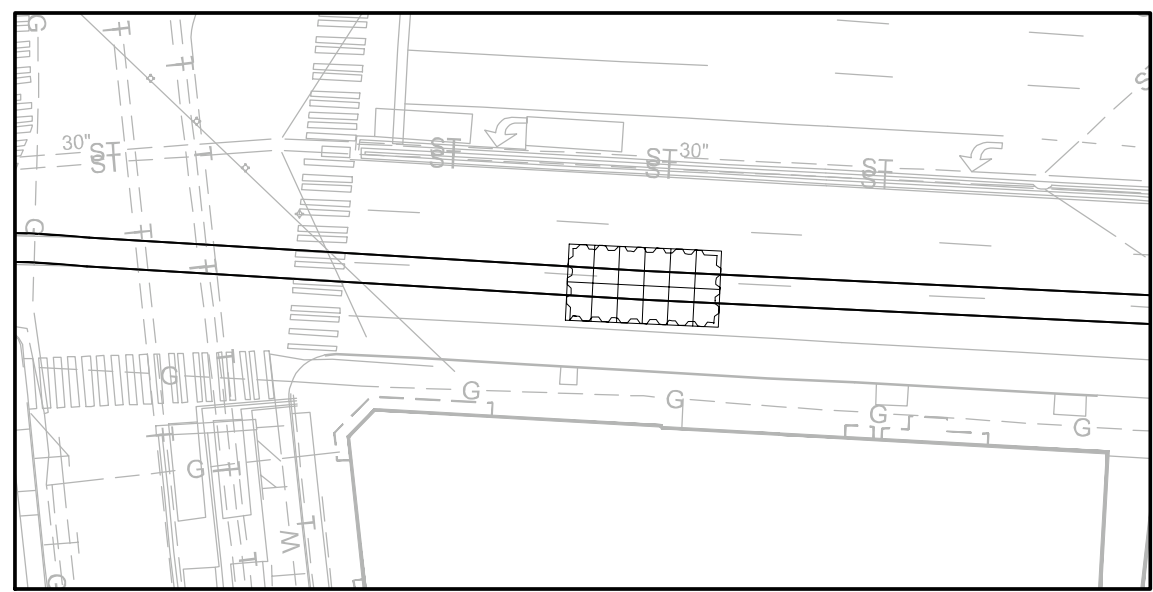


User:ABIDA\_Spec:ALUS-NC5MOD\_Plot: C:\BMS\SWSP-P\SH-C201\_C215.DWG Scale: 1:12 SaveDate: 3/6/2020 Time: 16:01 Plot Date: 4/1/2020 Time: 16:00 Layout: SH-C215

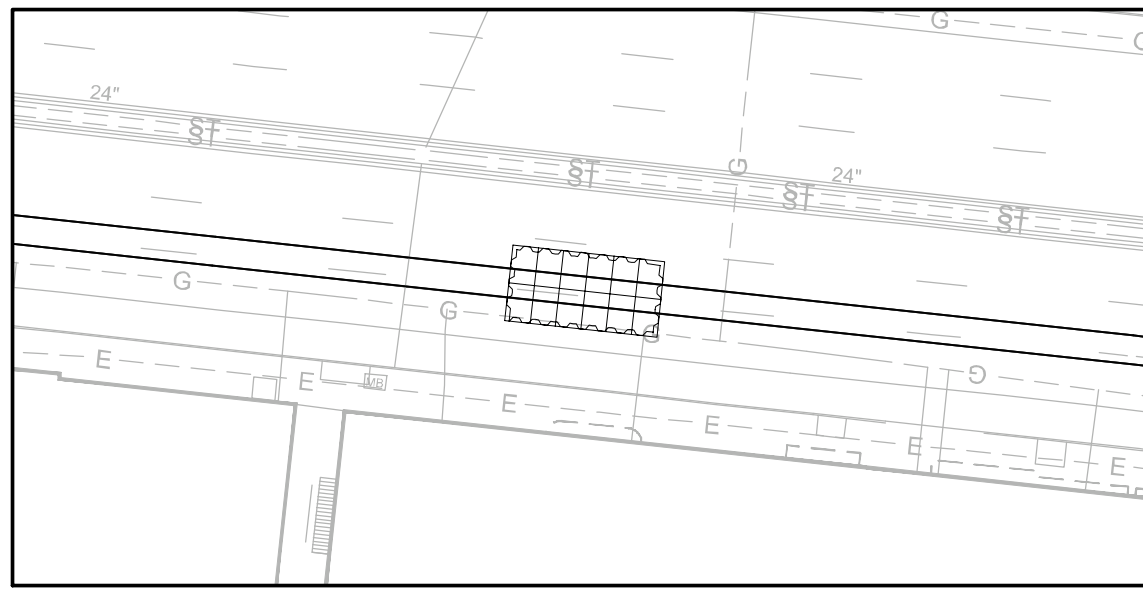
User: ABETA Spec: AUS-NCMSMOD File: C:\BNS\BNS\BNS\BNS\WSP\_ALL\LAB\IDMS\8180\SH-C401\_C404.DWG Scale: 1:1 Saved Date: 3/22/2020 Time: 09:43 File Date: April 3/22/2020 16:34 Layout: SH-C401



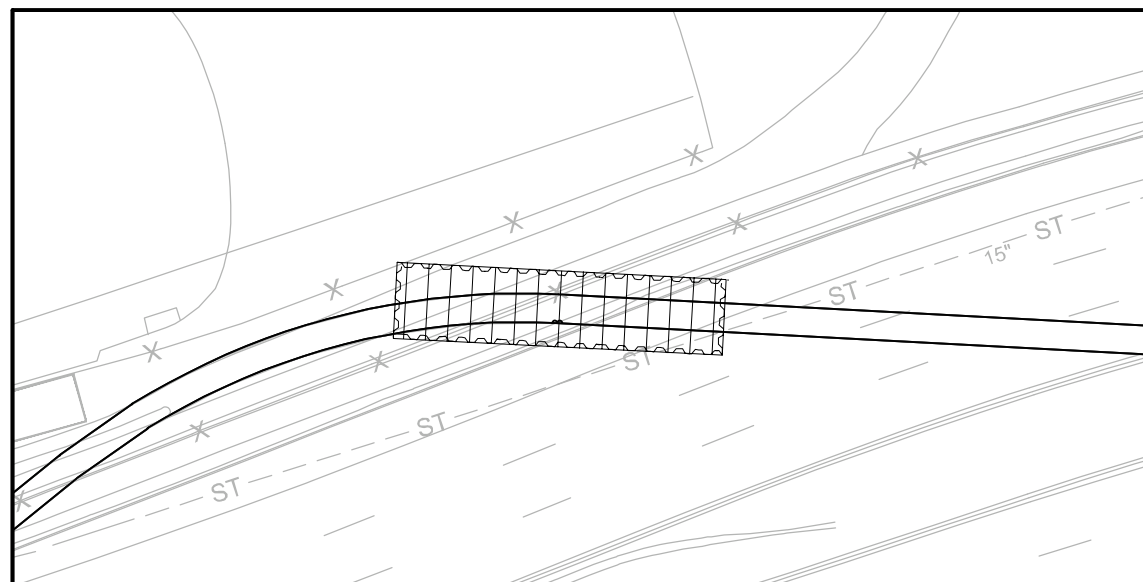
**CONNECTION CHAMBER AT MICROTUNNEL SHAFT 9**  
1" = 20'-0"



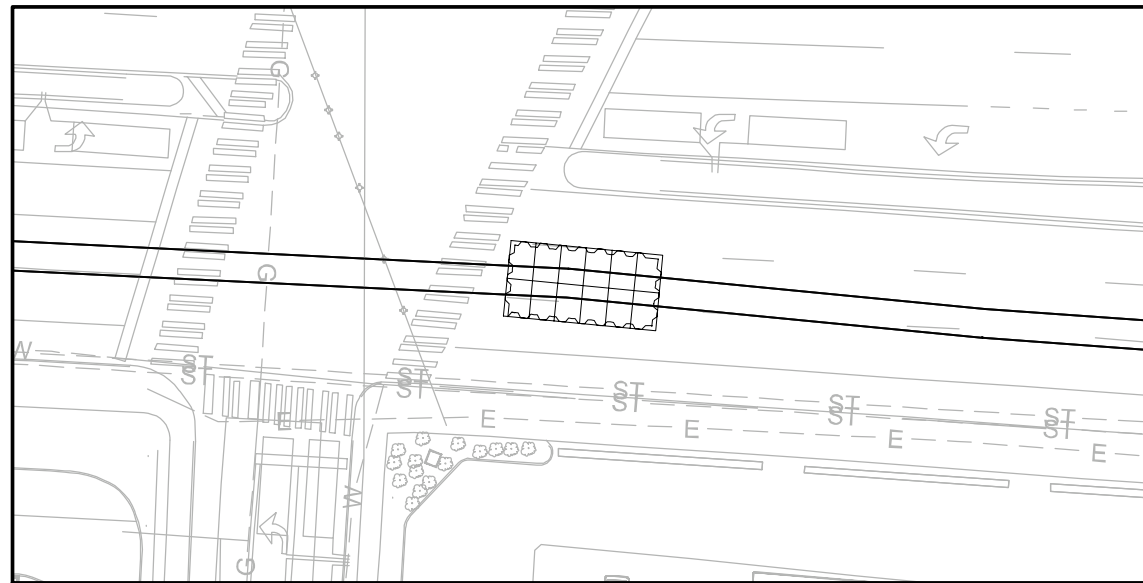
**AQUEDUCT STA. 675+93**  
1" = 20'-0"



**AQUEDUCT STA. 687+81**  
1" = 20'-0"



**AQUEDUCT STA. 700.00**  
1" = 20'-0"



**AQUEDUCT STA. 722+75**  
1" = 20'-0"



- NOTES:**
- APPROXIMATE WORKPIT LOCATIONS SHOWN 16'X30' FOR PRELIMINARY TRAFFIC IMPACT ASSESSMENT. SEE PLAN AND PROFILE SHEETS FOR ADDITIONAL DETAIL
  - FOR ADDITIONAL UTILITY INFORMATION REFER TO RECORD PLANS (REFERENCE DOCUMENTS) AND OBTAIN ADDITIONAL INFORMATION FROM NYS DOT AND UTILITY PROVIDERS.
  - DESIGN-BUILDER SHALL PROTECT UTILITIES OR RELOCATE UTILITIES AFTER OBTAINING ALL PERMITS AND APPROVALS.

- LEGEND:**
- EXIST. AQUEDUCT PRELIM. ALIGNMENT, TO BE SLIPLINED
  - APPROXIMATE WORKPIT FOOTPRINT FOR SLIPLINING

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	SH-C401_C404		
DESIGNED BY:	W. CHAFFEE		
DRAWN BY:	J. JARRETT		
CHECKED BY:	S. HAQ		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC  
WORKS

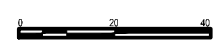
OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

**SHEET TITLE**

SUNRISE HIGHWAY  
SLIPLINE WORKPIT  
PRELIMINARY LOCATION  
PLAN 1

**SCALE:**

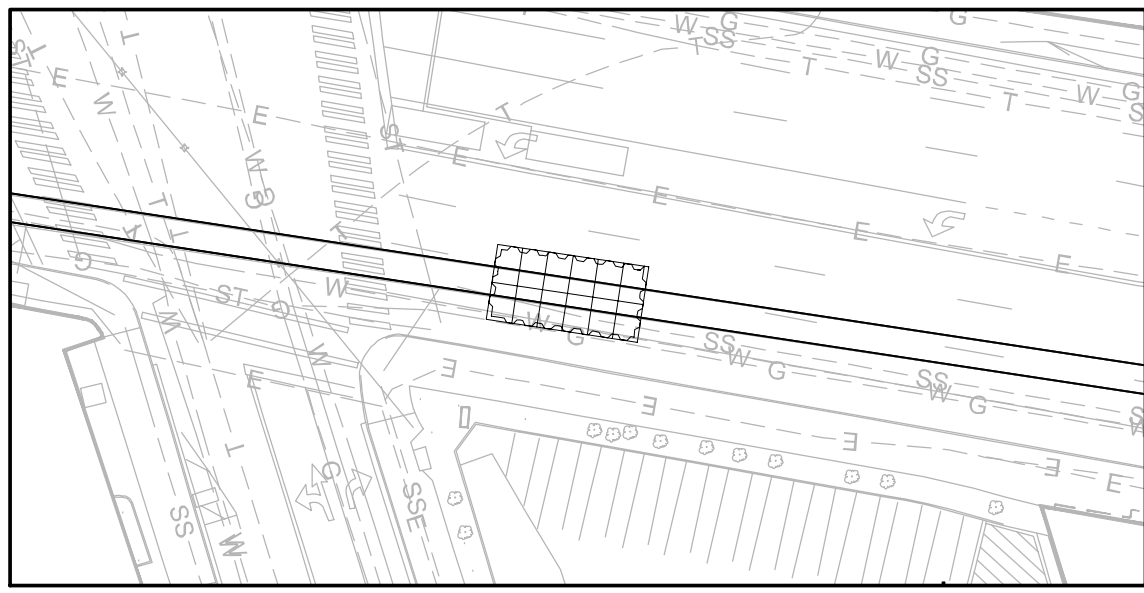
AS SHOWN



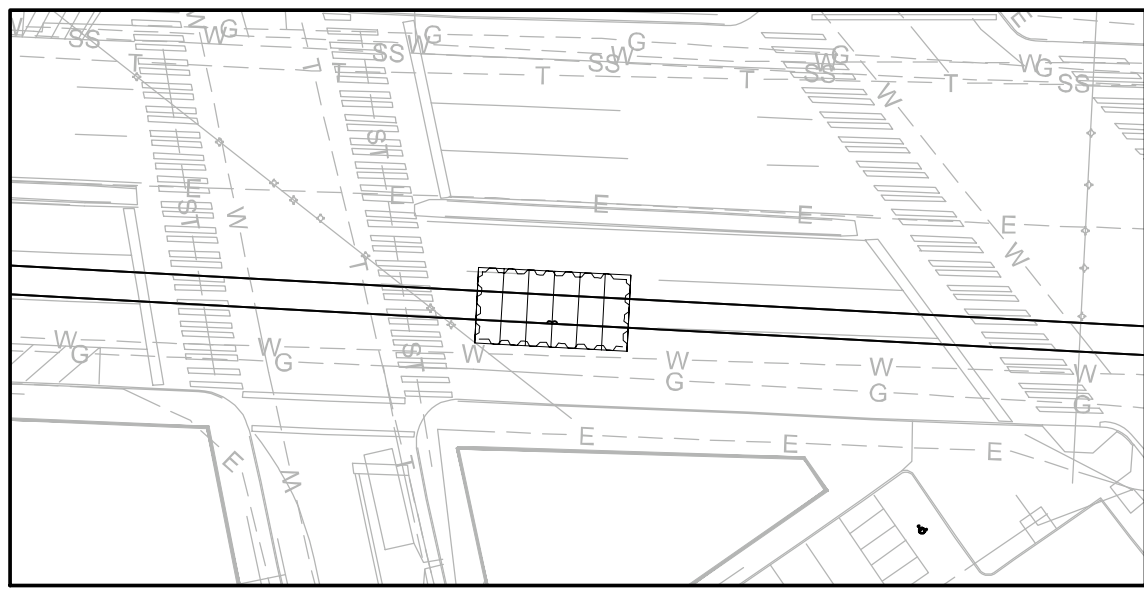




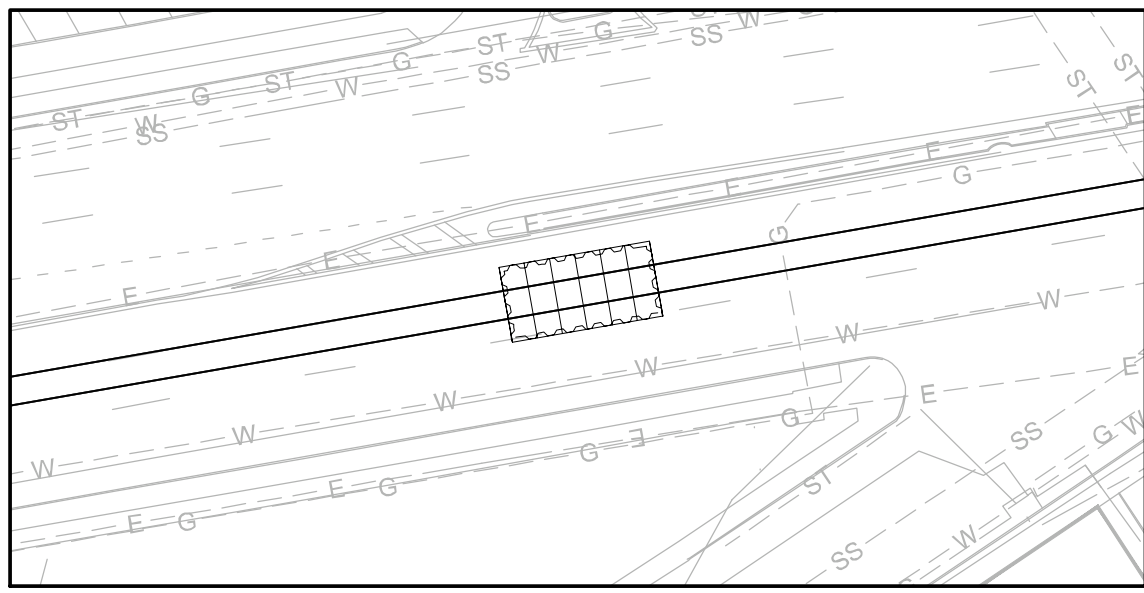
User: ABTIA Spec: AUS-NCMSMOD File: C:\BNS\WSP\BNS\BNS\WSP\_ALL\BNS\BNS\BNS\WSP\_C404.DWG Scale: 1:1 Saved Date: 3/2/2020 Time: 09:43 File Date: April 3/22/2020 16:43 Layout: SH-C403



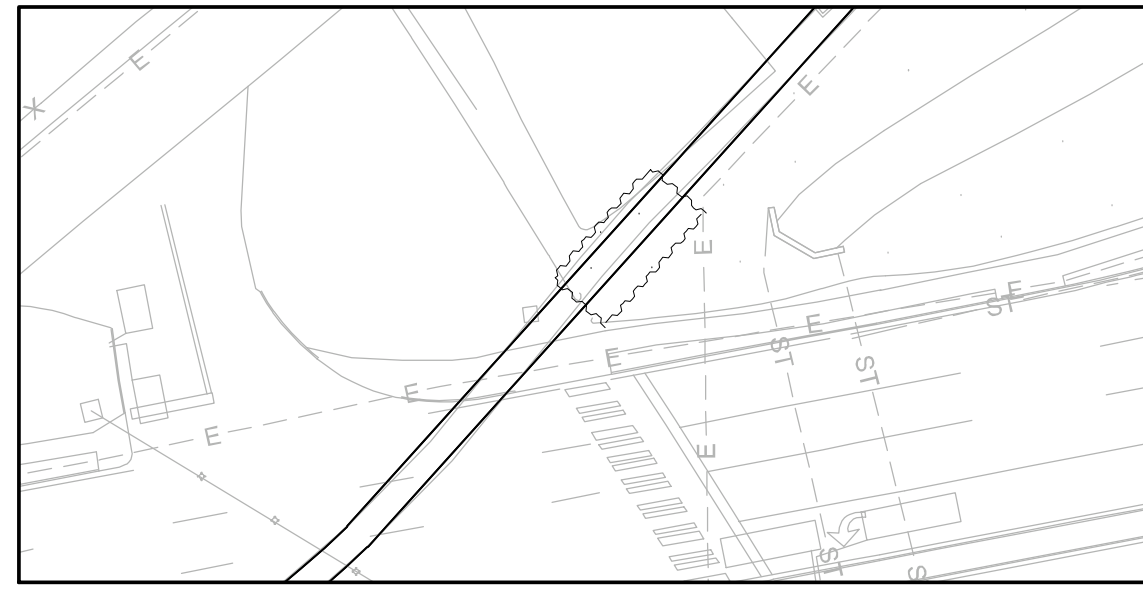
**AQUEDUCT STA. 849+82**  
1" = 20'-0"



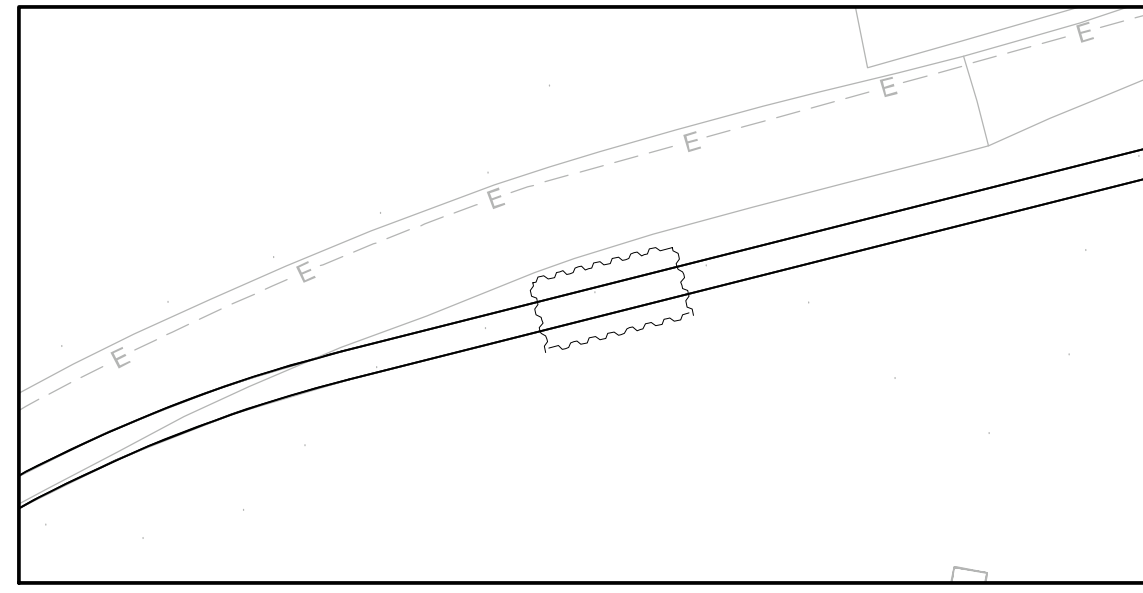
**AQUEDUCT STA. 856+71**  
1" = 20'-0"



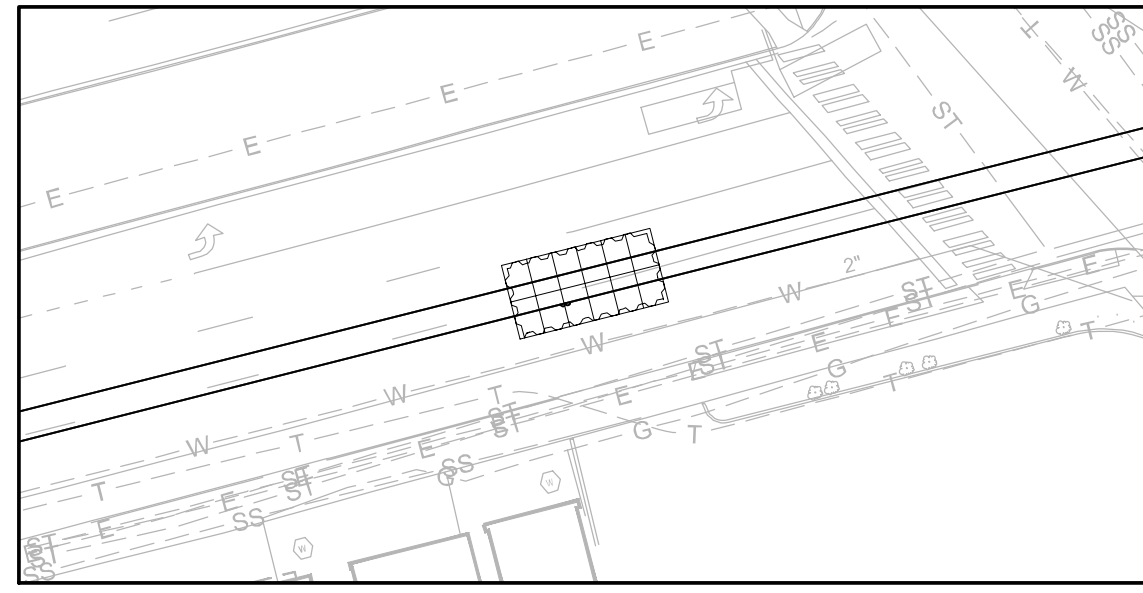
**AQUEDUCT STA. 865+00**  
1" = 20'-0"



**AQUEDUCT STA. 885+81**  
1" = 20'-0"



**AQUEDUCT STA. 892+50**  
1" = 20'-0"



**AQUEDUCT STA. 918+82**  
1" = 20'-0"



- NOTES:
1. APPROXIMATE WORKPIT LOCATIONS SHOWN 16'X30' FOR PRELIMINARY TRAFFIC IMPACT ASSESSMENT. SEE PLAN AND PROFILE SHEETS FOR ADDITIONAL DETAIL
  2. FOR ADDITIONAL UTILITY INFORMATION REFER TO RECORD PLANS (REFERENCE DOCUMENTS) AND OBTAIN ADDITIONAL INFORMATION FROM NYS DOT AND UTILITY PROVIDERS.
  3. DESIGN-BUILDER SHALL PROTECT UTILITIES OR RELOCATE UTILITIES AFTER OBTAINING ALL PERMITS AND APPROVALS.

LEGEND:  
 EXIST. AQUEDUCT PRELIM. ALIGNMENT, TO BE SLIPLINED  
 APPROXIMATE WORKPIT FOOTPRINT FOR SLIPLINING

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**  
DATE: 04/2020

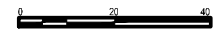
THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY
<b>FINAL DESIGN CRITERIA PACKAGE</b>			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	SH-C401_C404		
DESIGNED BY:	W. CHAFFEE		
DRAWN BY:	J. JARRETT		
CHECKED BY:	S. HAQ		

NASSAU COUNTY, NEW YORK  
 DEPARTMENT OF PUBLIC WORKS  
 OCEAN OUTFALL  
 EFFLUENT DIVERSION  
 PROJECT

SHEET TITLE  
 SUNRISE HIGHWAY  
 SLIPLINE WORKPIT  
 PRELIMINARY LOCATION  
 PLAN 3

SCALE: AS SHOWN











NOTES:

1. ALL DIMENSIONS ARE APPROXIMATE. EXISTING MANHOLE DIMENSION AND PIPEWORK VARY BY LOCATION.
2. CONTRACTOR TO FIELD VERIFY LIMITS OF DEMOLITION WORK AT EACH 48" GATE VALVE STRUCTURE TO BE REMOVED AND DEVELOP WORKPIT PLAN/DIMENSIONS ACCORDINGLY.
3. ALL MATERIALS REMOVED SHALL BE DISPOSED AS SPECIFIED.
4. EXCAVATION AND FINAL CLOSURE SHALL BE IN ACCORDANCE WITH THE TRAFFIC MANAGEMENT PLAN AND AS SPECIFIED.
5. PRELIMINARY DIMENSIONS SHOWN FOR WORKPIT FOOTPRINT ARE APPROXIMATE AND ESTIMATED FOR PRELIMINARY DESIGN TRAFFIC IMPACT ASSESSMENT.
6. CONCRETE DECK PANELS AND INSTALLATION SHALL BE AS SPECIFIED IN ACCORDANCE WITH THE TRAFFIC MANAGEMENT PLAN.
7. DESIGN-BUILDER SHALL DESIGN AND CONSTRUCT SUITABLE SUPPORT OF EXCAVATION SYSTEM, ACCOUNTING FOR EXISTING STRUCTURE, EXISTING PIPE, EXISTING UTILITIES AND OTHER BURIED OBJECTS.
8. WHERE SUPPORT OF EXCAVATION SYSTEM IS DIRECTLY ABOVE AQUEDUCT PIPE OR MANHOLE BOX, LENGTH SHALL BE SELECTED TO PREVENT DAMAGE TO EXISTING STRUCTURE. DESIGN AND INSTALL BRACING TO PREVENT MOVEMENT DURING EXCAVATION.
9. SAW CUT AQUEDUCT TO FACILITATE SLIPLINE INSTALLATION. REMOVE ANY EXISTING INTERNAL EQUIPMENT WITHIN BOX, AS NEEDED.

PRELIMINARY NOT FOR CONSTRUCTION

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL RELEASED FOR CONSTRUCTION SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

FINAL DESIGN CRITERIA PACKAGE

DATE: APRIL 2020  
 PROJECT NO.: PW-S3B116-03CR  
 FILE NAME: SH-C501\_C502  
 DESIGNED BY: M. BROWN  
 DRAWN BY: B. VAN BEEK  
 CHECKED BY: W. CHAFFEE

NASSAU COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS

OCEAN OUTFALL EFFLUENT DIVERSION PROJECT

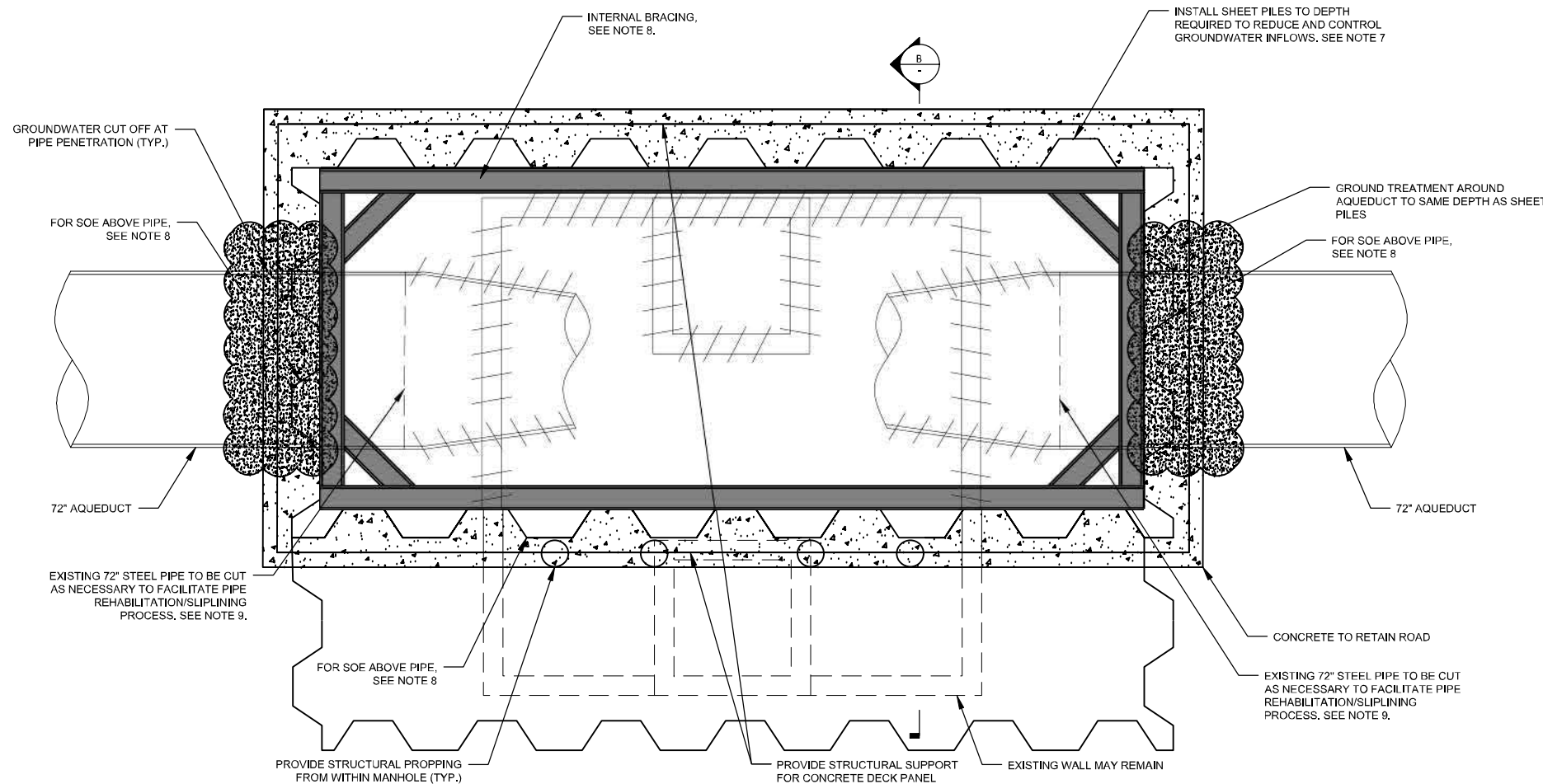
SHEET TITLE

SUNRISE HIGHWAY  
 SLIPLINE WORKPIT PRELIMINARY DESIGN

SCALE: NOT TO SCALE

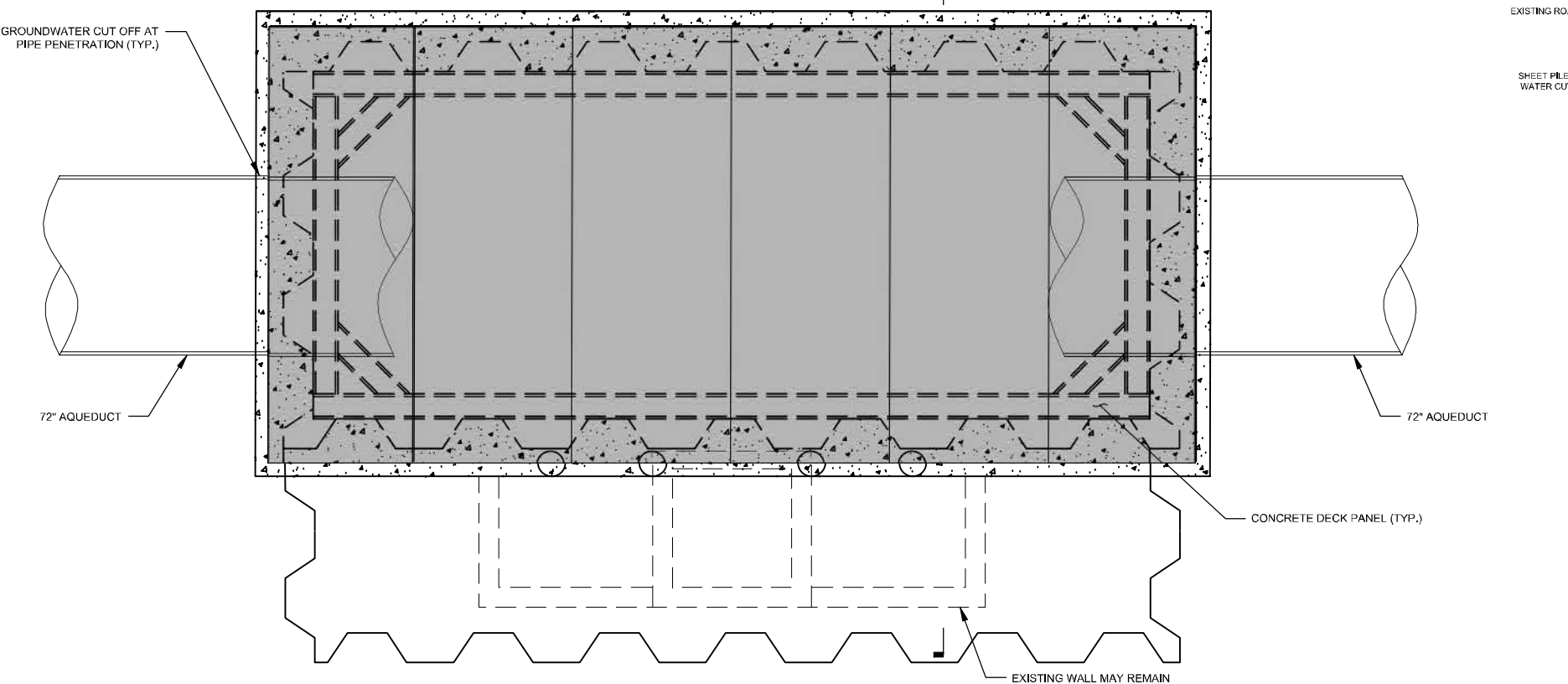
SH-C502

PAGE 192



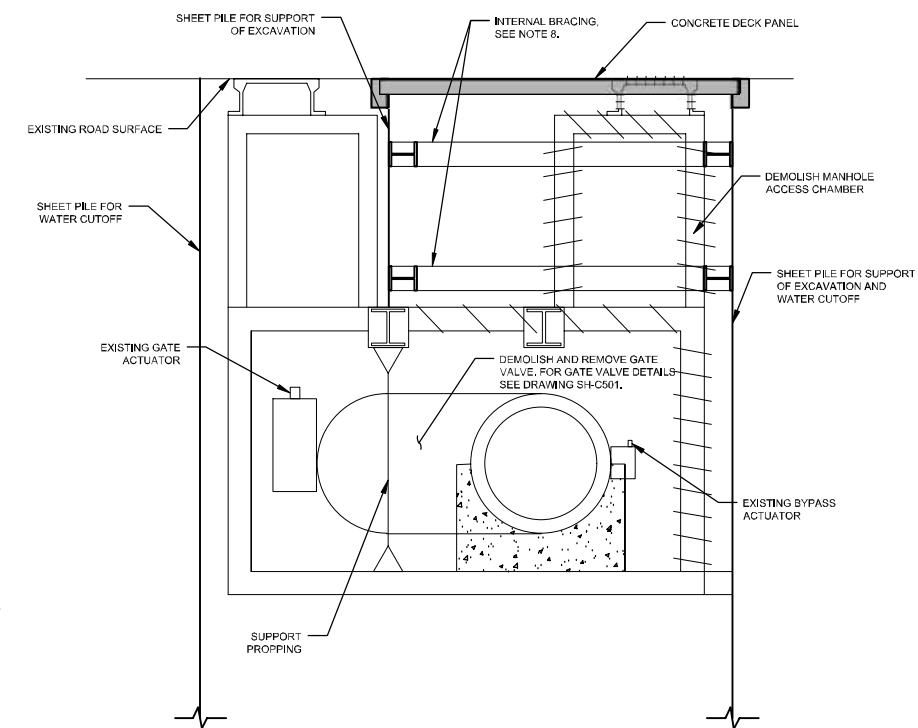
SLIPLINE WORK PIT PRELIMINARY DESIGN - BELOW DECK

NOT TO SCALE



SLIPLINE WORK PIT PRELIMINARY DESIGN - DECK PANEL LAYOUT

NOT TO SCALE



SECTION B N.T.S.

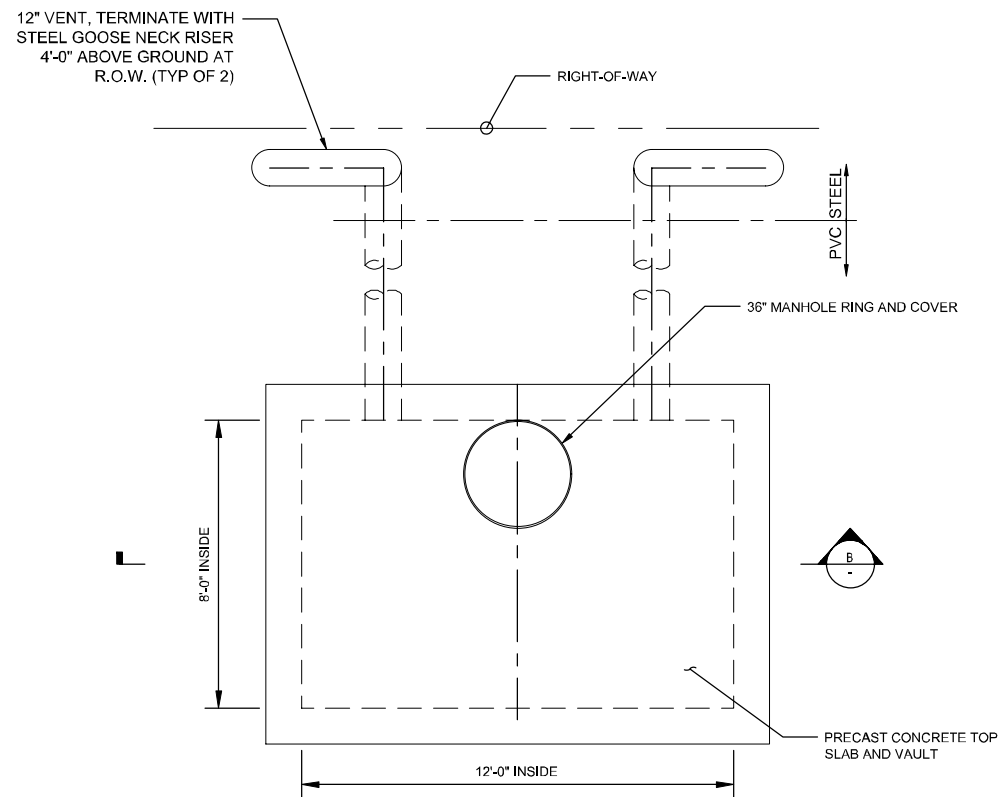
User: USRC67708 Shm: AUSA-KCS:MDD File: C:\BMS\WSP-PB-US-PK-02\WSP\_BA\B\C\ES\HARD\6818\SH-C501\_C502.DWG Scale: 1:1 Saved Date: 3/26/2020 Time: 16:24 Plot Date: 3/26/2020 Paper: 18x24 Layout: SH-C502



NOTES:

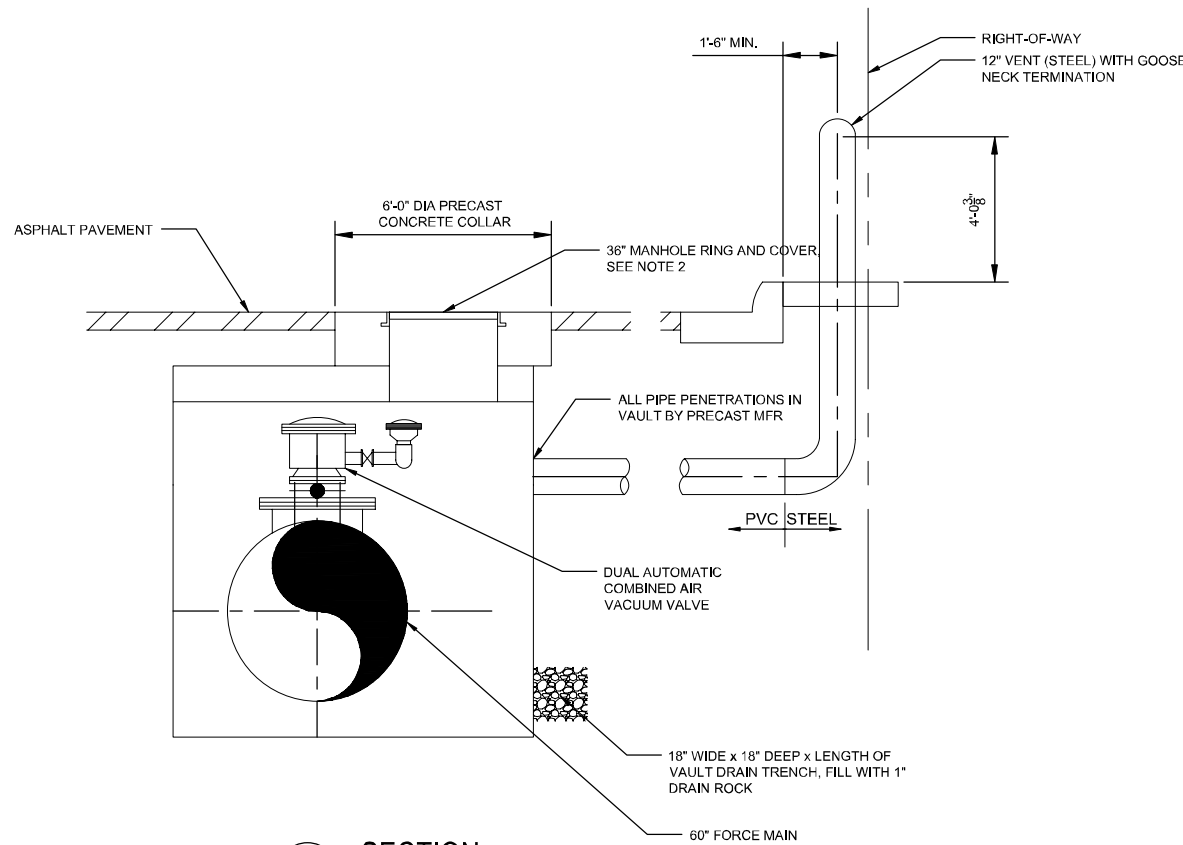
- DESIGN DETAILS SHOWN FOR STRUCTURE, EQUIPMENT, PIPES, AND MATERIALS ARE GENERAL FOR PRELIMINARY DESIGN. ALL DIMENSIONS ARE APPROXIMATE. AQUEDUCT BURIAL DEPTH, SURFACE ELEVATIONS AND MATERIALS WILL VARY BY CHAMBER LOCATION. DESIGNER-BUILDER TO FINALIZE CAV CHAMBER DESIGN BASED ON SITE SPECIFIC INFORMATION (I.E. DEPTH OF COVER, CONNECTIONS FOR AIR AND DRAINAGE, EQUIPMENT SIZE, VALVES, FITTINGS, COUPLINGS, EXISTING UTILITIES).

User: ABETA Spec: AUS-NC53MOD File: C:\BNS\WSP\BNS\BNS\WSP\_ALL\LAB\DWG\SH-C503.DWG Scale: 1:1 Saved Date: 3/8/2020 Time: 16:20 Plot Date: Auto. Ali: 3/22/2020: 17:04 Layout: SH-C503



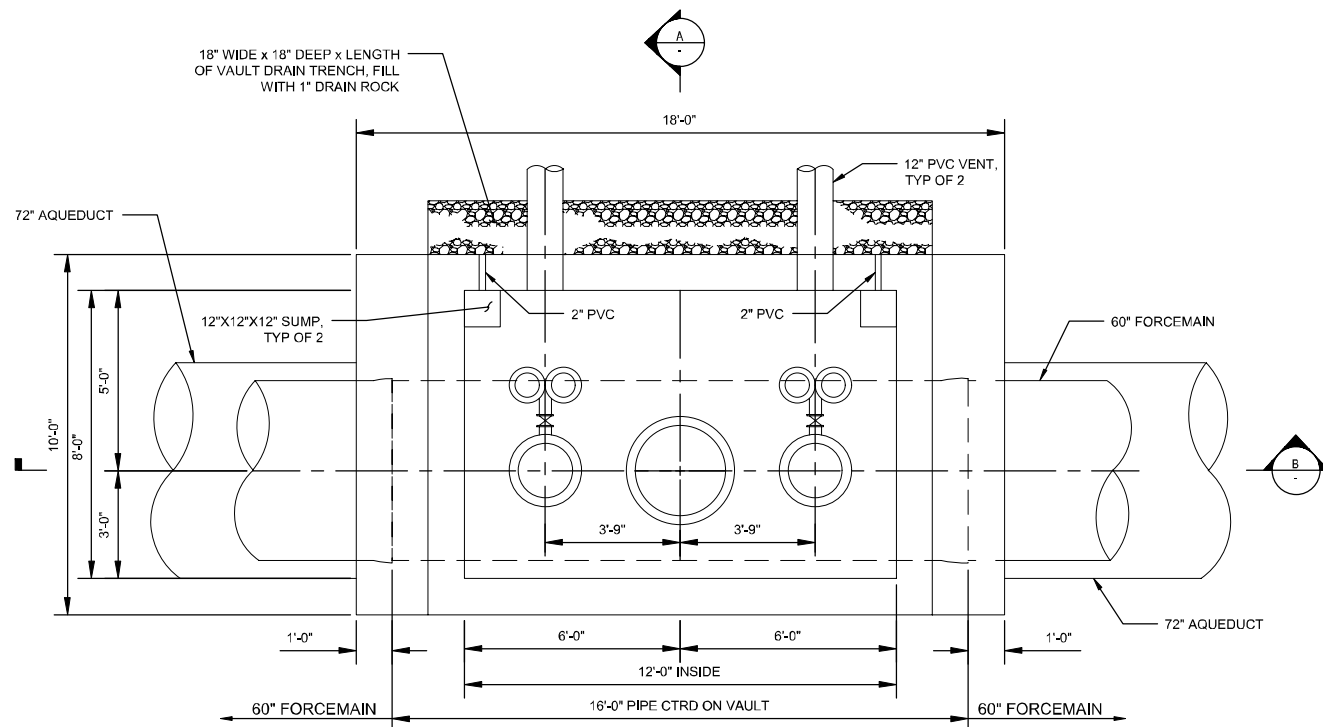
TOP PLAN

N.T.S.



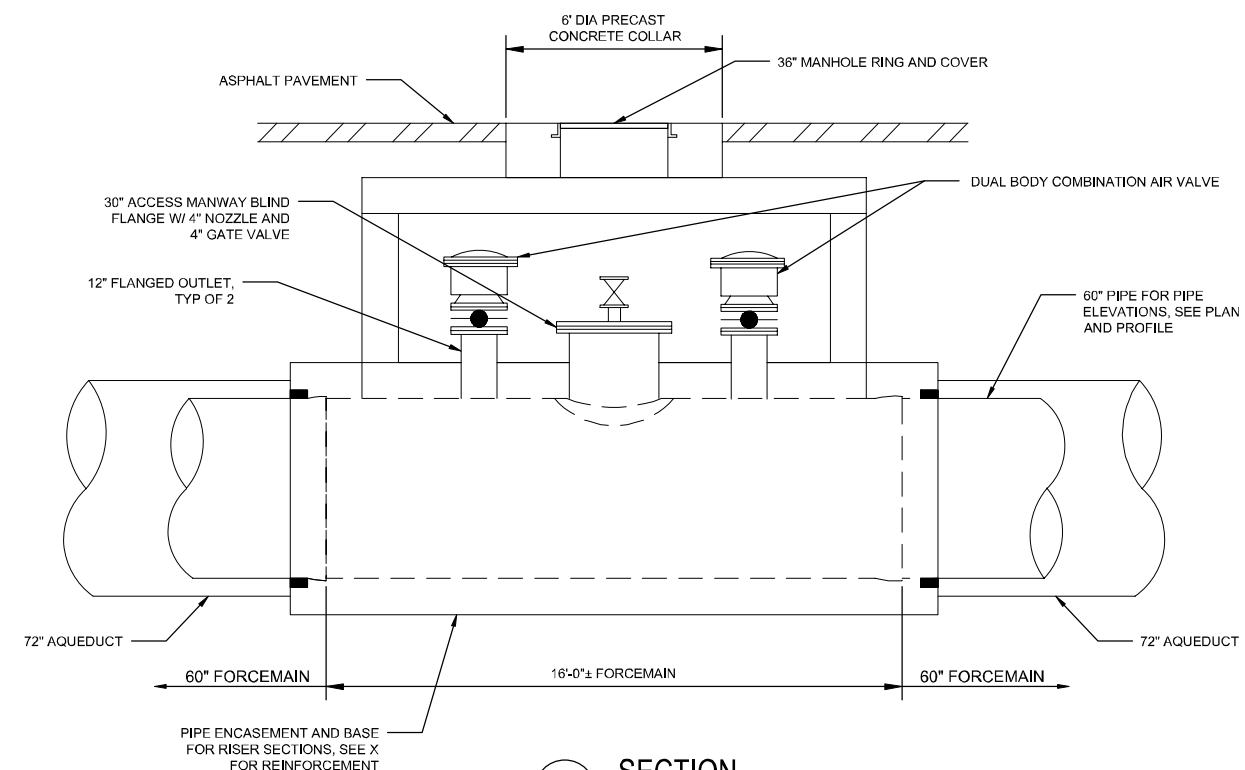
SECTION A

N.T.S.



BASE PLAN

N.T.S.



SECTION B

N.T.S.

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: 04/2020

THE INFORMATION PROVIDED IN THIS DRAWING IS INDICATIVE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MINIMUM REQUIREMENTS TO BE INCLUDED IN THE FINAL "RELEASED FOR CONSTRUCTION" SPECIFICATIONS DEVELOPED BY THE DESIGN-BUILDER. ALL DIMENSIONS AND INFORMATION ON EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED AND REVISED AS NEEDED FOR CODE COMPLIANCE AND/OR FOR OTHER TECHNICAL REQUIREMENTS BY THE DESIGN-BUILDER.

NO.	DATE	ISSUED FOR	BY

FINAL DESIGN CRITERIA PACKAGE			
DATE:	APRIL 2020		
PROJECT NO.:	PW-S3B116-03CR		
FILE NAME:	SH-C503		
DESIGNED BY:	S. WILLIAMSON		
DRAWN BY:	J. JARRETT		
CHECKED BY:	S. HAQ		

NASSAU COUNTY, NEW YORK  
DEPARTMENT OF PUBLIC WORKS

OCEAN OUTFALL  
EFFLUENT DIVERSION  
PROJECT

SHEET TITLE

SUNRISE HIGHWAY

COMBINATION AIR  
RELIEF/VACUUM  
CHAMBER

SCALE: NOT TO SCALE

SH-C503

PAGE 193



