

ATLANTIC HIGHLANDS/HIGHLANDS REGIONAL SEWERAGE AUTHORITY

ATLANTIC HIGHLANDS AND HIGHLANDS PUMP STATION COMMUNUTOR REPLACEMENT

BOROUGH OF ATLANTIC HIGHLANDS AND HIGHLANDS, MONMOUTH COUNTY, NEW JERSEY

PUBLIC UTILITIES

ELECTRIC
 JCP&L
 ONE RIVER CENTER
 331 NEWMAN SPRINGS ROAD, BLDG 3
 RED BANK, NJ 07701 (732) 493-5508

GAS
 N.J. NATURAL GAS COMPANY
 1415 WYCKOFF ROAD
 P.O. BOX 1464
 WALL, NEW JERSEY 07719 (732) 919-8066

WATER
 ATLANTIC HIGHLANDS MUNICIPAL WATER DEPARTMENT
 100 FIRST AVENUE
 ATLANTIC HIGHLANDS, NJ 07716 (732) 291-0027

NJ AMERICAN WATER
 661 SHREWSBURY AVENUE (732) 933-5925
 SHREWSBURY, NJ 07702
 ATTN: ERNIE BOAN

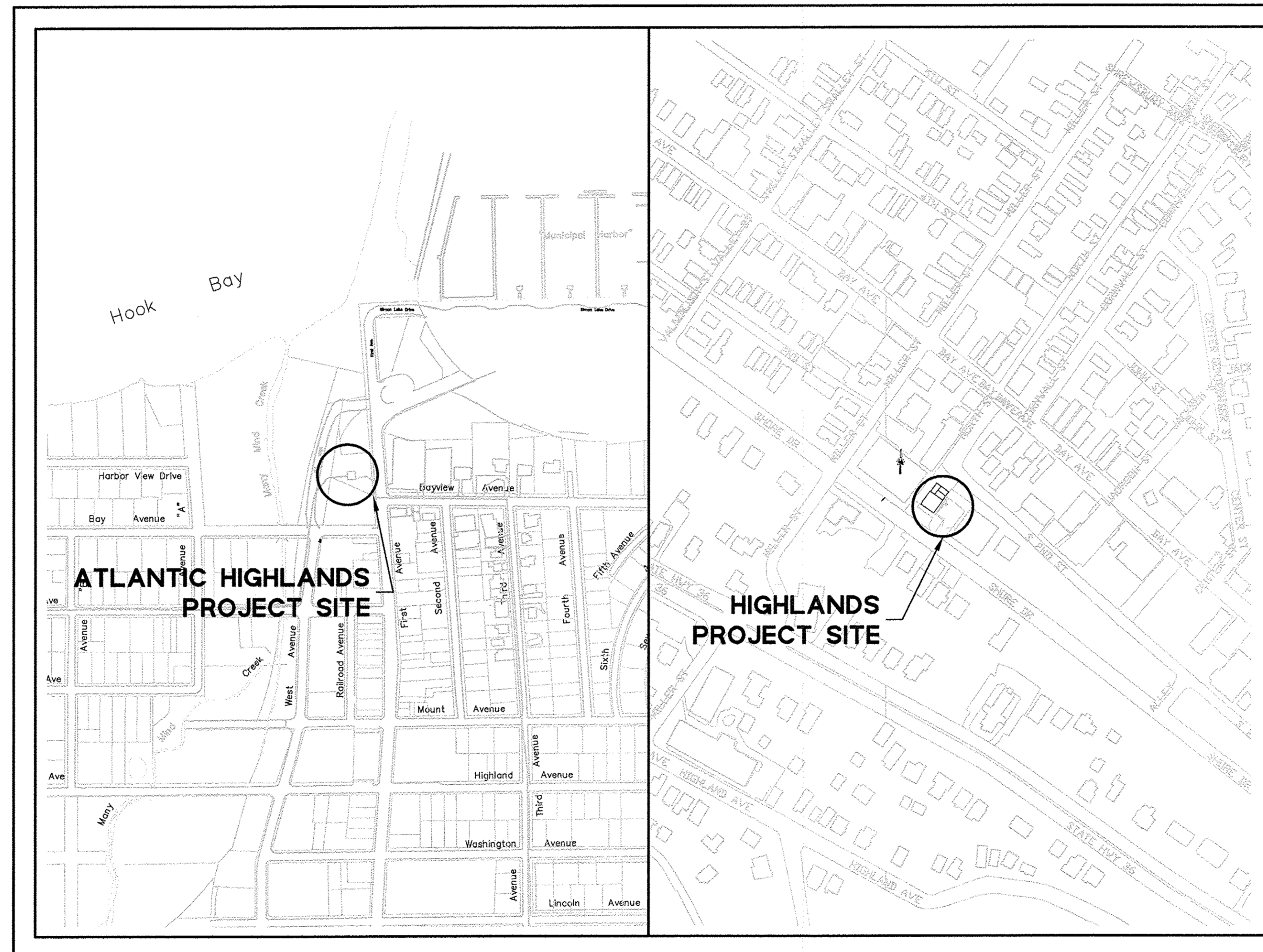
TELEPHONE
 VERIZON
 5100 BELMAR BLVD, FLOOR 1
 FARMINGDALE, NJ 07727 (732) 566-9935

CABLE
 COMCAST CABLE COMPANY
 403 SOUTH STREET
 EATONTOWN, NEW JERSEY 07724 (732) 542-8107

SEWER
 ATLANTIC HIGHLANDS MUNICIPAL SEWER DEPARTMENT
 100 FIRST AVENUE
 ATLANTIC HIGHLANDS, NJ 07716 (732) 291-0027

HIGHLANDS MUNICIPAL SEWER DEPARTMENT
 171 BAY AVENUE
 HIGHLANDS, NJ 07732 (732) 872-1224

LOCATION OF UTILITIES SHOWN ON THE PLANS ARE PLOTTED FROM AVAILABLE DATA ON FILE WITH THE UTILITY COMPANIES AND ARE NOT WARRANTED AS TO EXACTNESS. CONTRACTOR IS TO DETERMINE EXACT LOCATION AND DEPTH OF UTILITIES AT ALL CROSSINGS PRIOR TO CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.



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3	CP-1	HIGHLANDS CONSTRUCTION PLAN
4	CP-2	ATLANTIC HIGHLANDS CONSTRUCTION PLAN

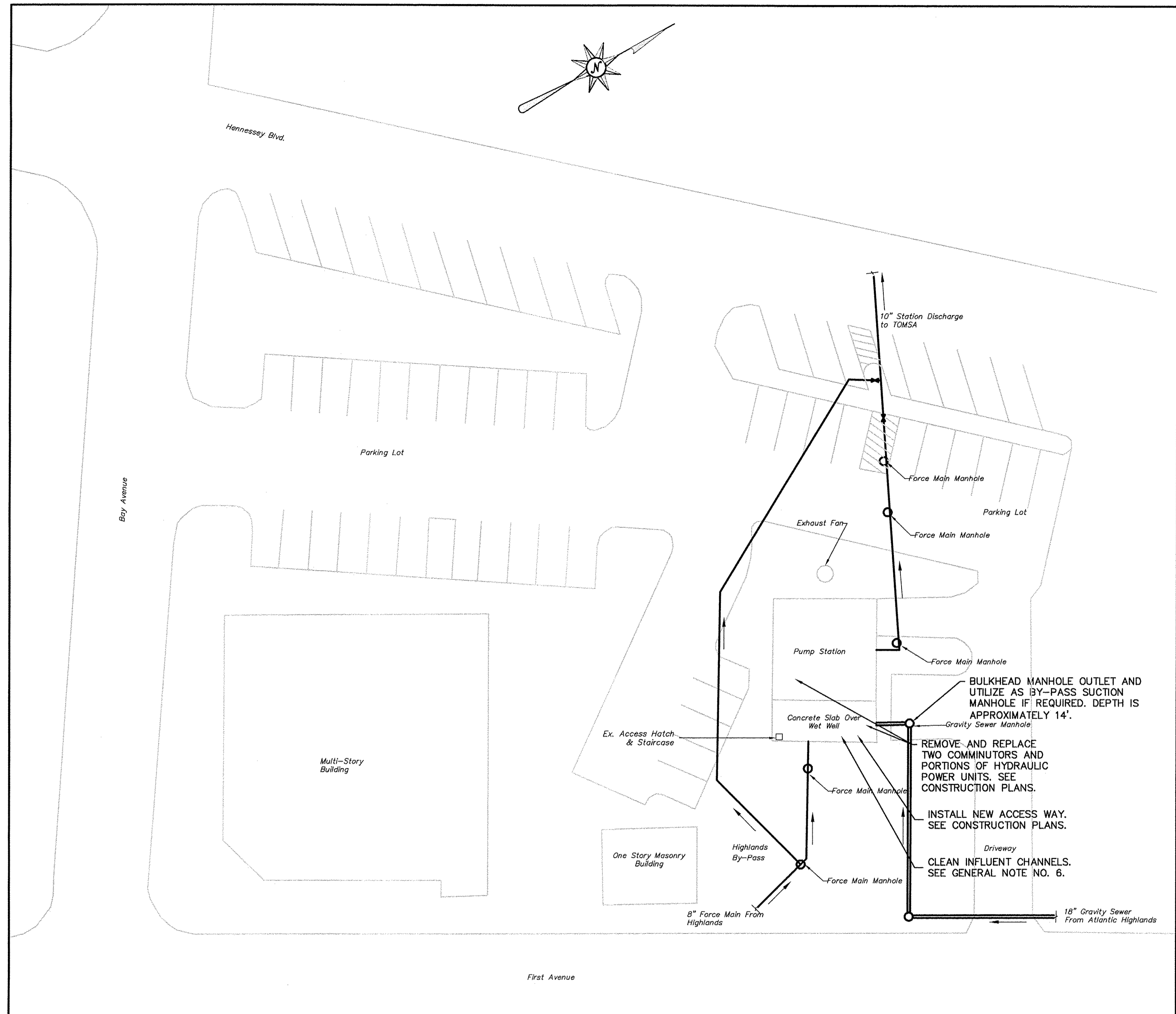
AUTHORITY MEMBERS:
 KENNETH BRASWELL, CHAIRPERSON
 WILBUR BISCHOF, VICE-CHAIRPERSON
 RICHARD O'NEIL, SECRETARY
 MICHAEL RYBECK, ASST. SECRETARY
 LOU FLIGOR, TREASURER
 CHRISTOPHER FRANCY, ASST. TREASURER
 DAVID PALAMARA, ADMINISTRATOR

PREPARED BY

TM ASSOCIATES
 CONSULTING AND MUNICIPAL ENGINEERS

JOSEPH N. GEMMELL, P.E.

ELEVEN TINDALL ROAD
 MIDDLETOWN, NEW JERSEY 07748
 TEL (732) 671-6400 FAX (732) 671-7365

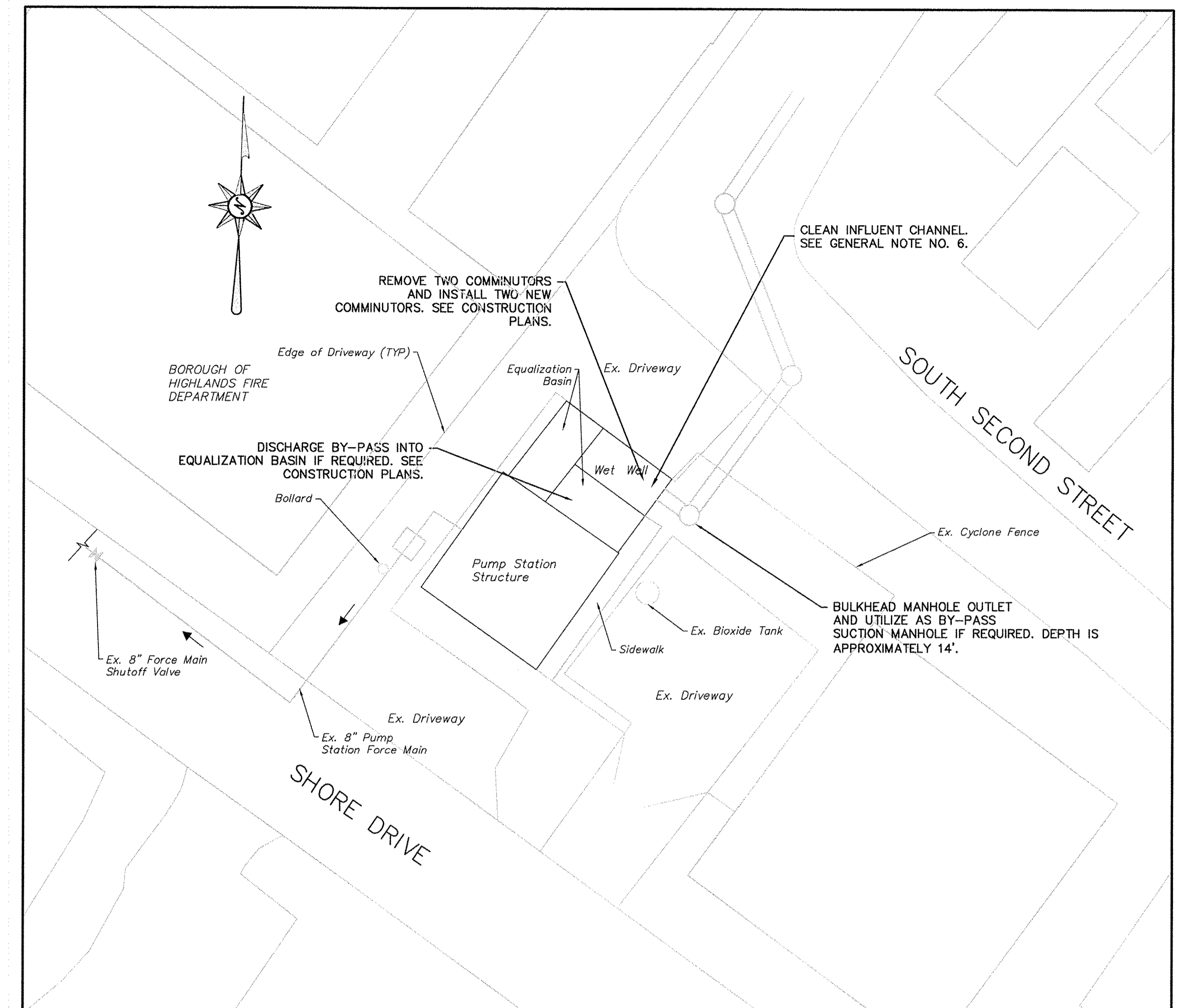


ATLANTIC HIGHLANDS PUMP STATION SITE PLAN

SCALE: 1"=20'

GENERAL NOTES:

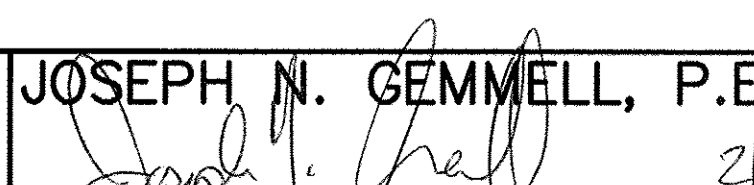
1. THE CONTRACTOR IS ADVISED THAT THE WET WELL IS HAZARDOUS (CLASSIFIED) CLASS 1 DIVISION 1 AREA AND THE DRY WELL IS A DAMP LOCATION. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA, STATE AND FEDERAL REQUIREMENTS AND THE NJ BUILDING CODE AND NATION ELECTRICAL CODE.
2. THE OWNER RESERVES THE RIGHT TO SUSPEND OR DELAY WORK IF SEVERE WEATHER IS FORECASTED. NO ADDITIONAL PAYMENT SHALL BE MADE IF WORK IS SUSPENDED BY THE OWNER DUE TO ACTUAL OR PREDICTED WEATHER CONDITIONS.
3. CONTRACTOR SHALL PROVIDE A BY-PASS AT EACH STATION, IF REQUIRED, IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
4. CONTRACTOR SHALL NOT INTERFERE WITH OPERATIONS AT EITHER PUMP STATION. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL AREAS OF THE PUMP STATION THROUGHOUT CONSTRUCTION.
5. EXISTING GRATING AT BOTH STATIONS IS RATED FOR PEDESTRIAN TRAFFIC ONLY. EQUIPMENT SHALL NOT BE PLACED ON EXISTING GRATING.
6. CONTRACTOR SHALL CLEAN ALL CHANNELS PRIOR TO REHABILITATING COMMINUTORS. ALL GRIT, GRAVEL, DEBRIS AND RAGS SHALL BE REMOVED AND DISPOSED OF OFF SITE. THE CONTRACTOR IS ADVISED THAT THERE IS A GRAVEL STOP IMMEDIATELY UPSTREAM OF THE COMMUNUTORS AT BOTH SITES.
7. THE OWNER SHALL RETAIN OWNERSHIP OF ALL EQUIPMENT TO BE REPLACED EXCEPT THE COMMUNUTORS. CONTRACTOR SHALL REMOVE EQUIPMENT AND MOVE IT TO AN OWNER DIRECTED LOCATION ON THE GROUND FLOOR OF EACH PUMP STATION.
8. ALL EXISTING HYDRAULIC AND ELECTRICAL EQUIPMENT SHALL BE DISCONNECTED AND RECONNECTED AS NEEDED TO PERFORM THE PROPOSED WORK AND RETURN THE EQUIPMENT TO SERVICE. THIS SHALL INCLUDE EXTENDING HYDRAULIC PIPING OR ELECTRICAL CONDUIT AND WIRING.
9. THE CONTRACTOR IS ADVISED THAT ONE SUPPLIER, JWC, MAY OFFER A CREDIT TOWARDS THE PURCHASE OF NEW COMMUNUTORS UPON RETURN OF THE EXISTING COMMUNUTORS. CONTRACTOR SHALL MAKE PROVISIONS FOR RETURN OF THE EXISTING COMMUNUTORS AND THE QUOTED CREDIT AMOUNTS SHALL BE IDENTIFIED IN THE CONTRACTOR'S PROPOSAL; SHOULD THE ACTUAL CREDIT AMOUNT BE DIFFERENT, THE CONTRACT SHALL BE ADJUSTED FOR THAT DIFFERENCE.

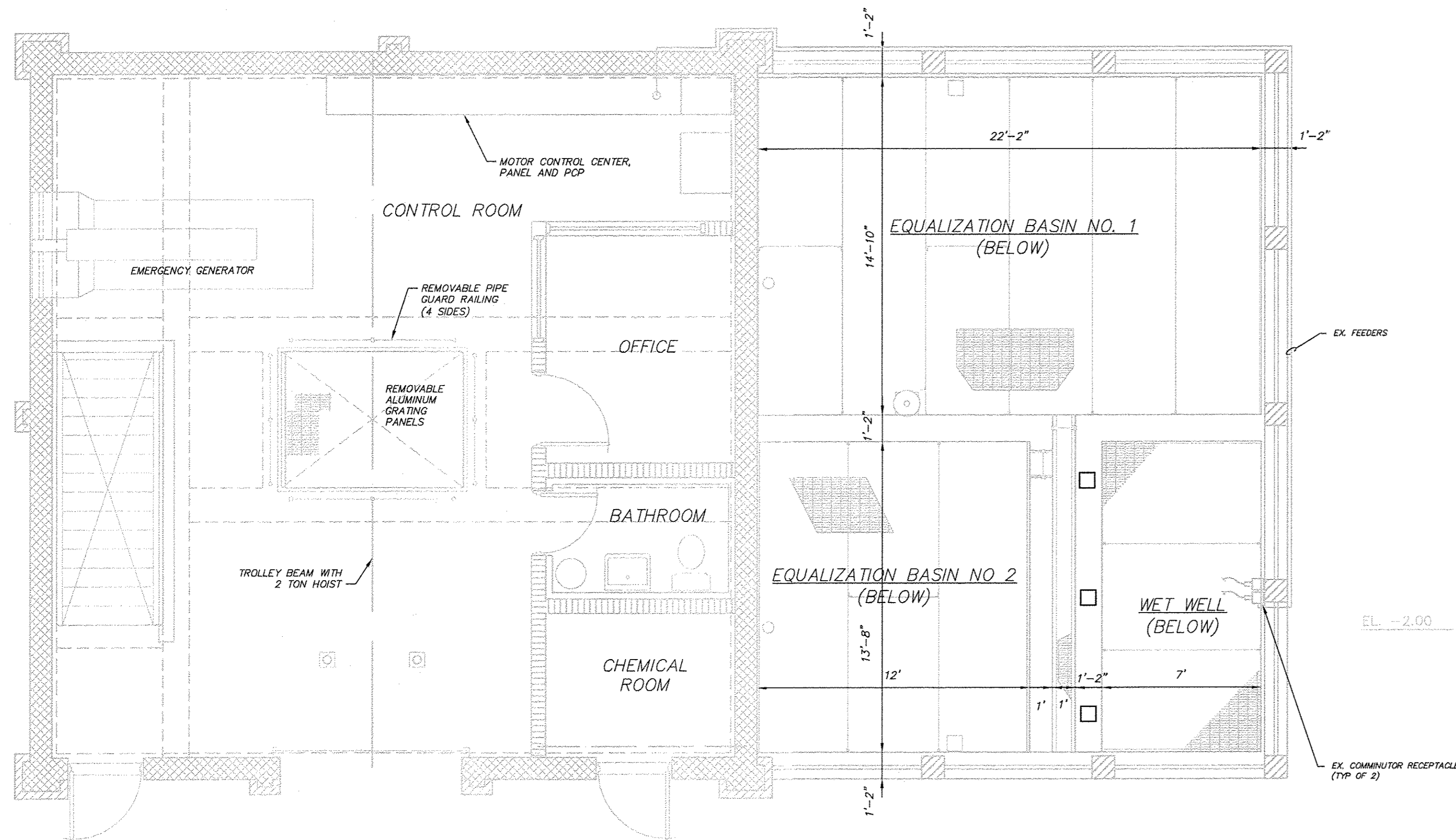


HIGHLANDS PUMP STATION SITE PLAN

SCALE: 1"=20'

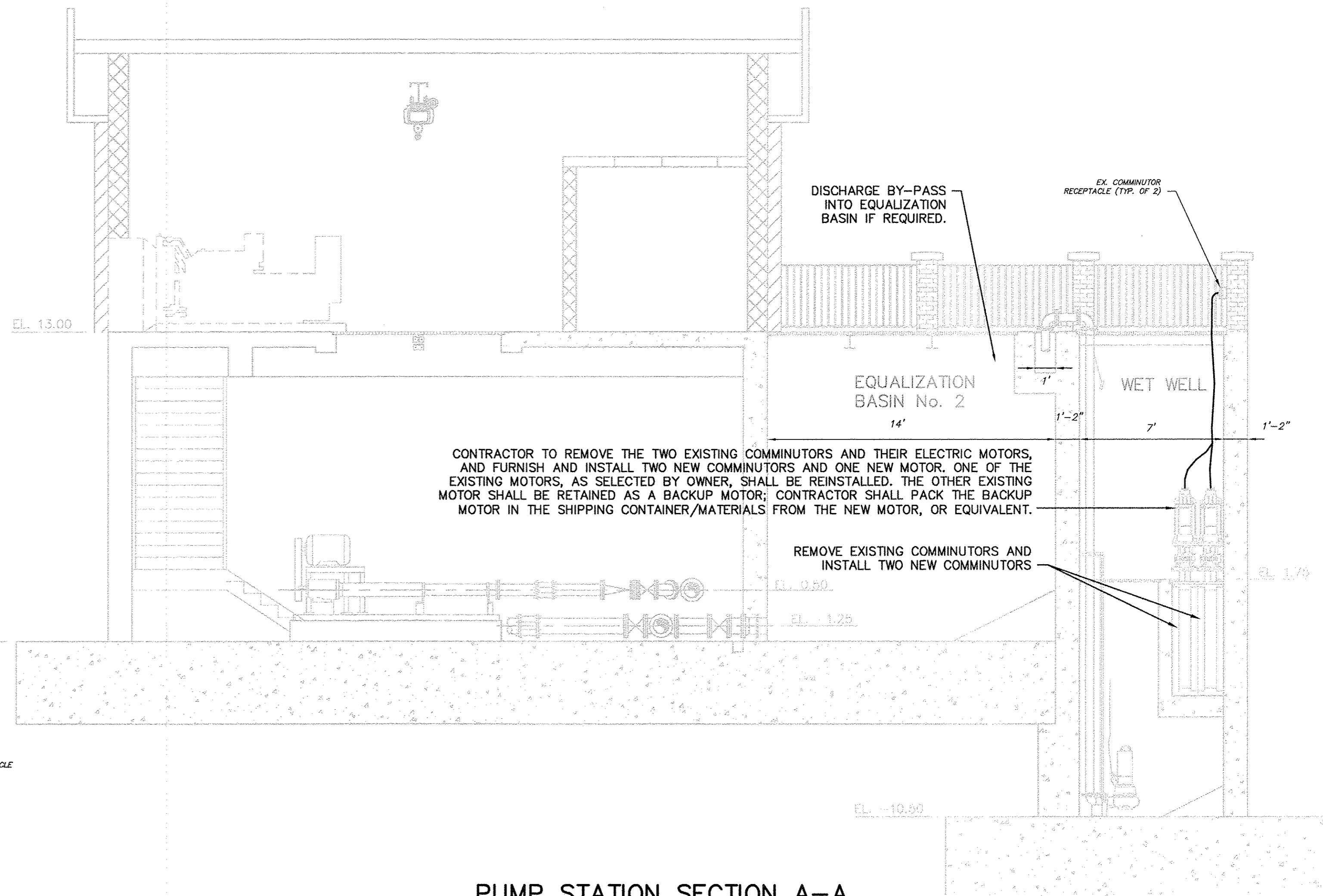
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ATLANTIC HIGHLANDS AND HIGHLANDS PUMP STATION COMMUNUTOR REPLACEMENT				
BOROUGH OF ATLANTIC HIGHLANDS AND HIGHLANDS MONMOUTH COUNTY, NEW JERSEY				
SITE PLANS				
TM ASSOCIATES 11 TINDALL ROAD MIDDLETOWN, NJ 07748 TEL. 732-671-6400 FAX 732-671-7365		JOSEPH N. GEMMELL, P.E.  LICENSED PROFESSIONAL ENGINEER STATE OF NEW JERSEY LICENSE No. 246E03240500		DRAWING SP-1
		DESIGNED BY BAR		CHECKED BY JNG
NEW JERSEY BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS CERTIFICATE OF AUTHORIZATION GA 27897		PROJECT NO. AHHA.00950		SHEET 2 OF 4



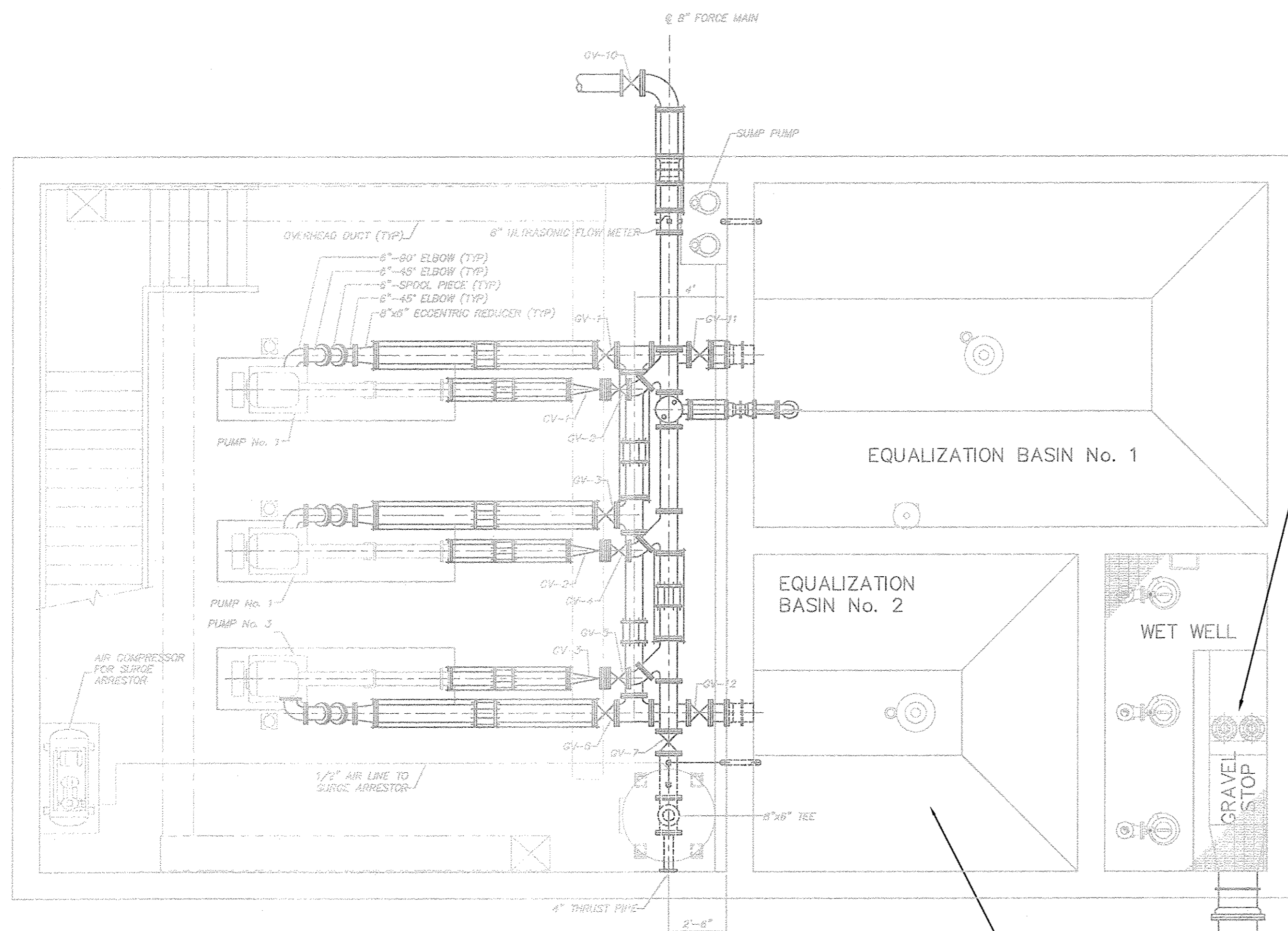
UPPER LEVEL PUMP STATION PLAN

SCALE: 1/4"=1'



PUMP STATION SECTION A-A

SCALE: 1/4"=1'



LOWER LEVEL PUMP STATION PLAN

SCALE: 1/4"=1'

CONSTRUCTION NOTES:

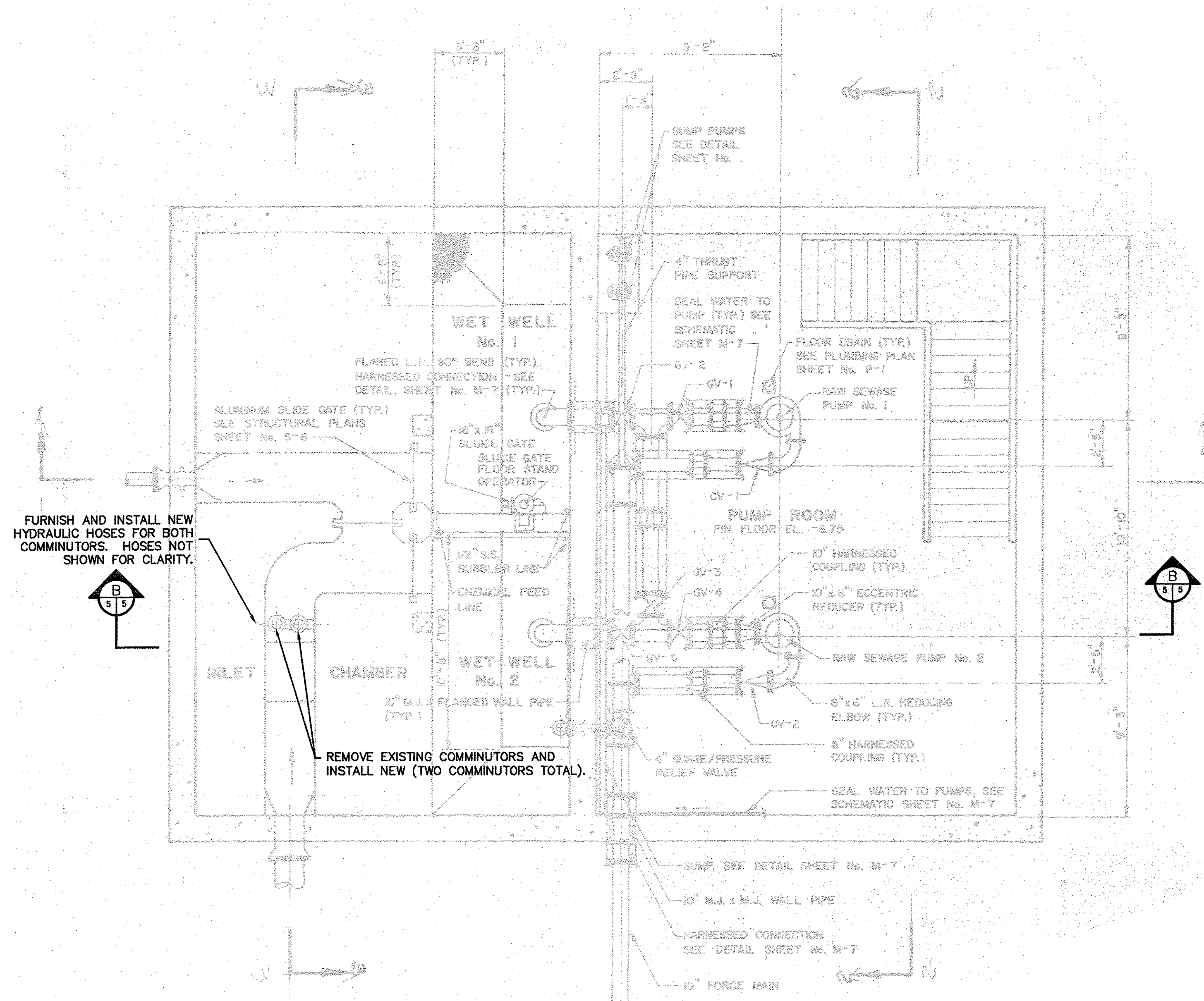
1. CONTRACTOR TO FURNISH AND DELIVER ONE SPARE ELECTRIC COMMUNUTOR MOTOR FOR THE OWNER TO STORE.
2. THE OWNER HAS A WHEELED 2,000 LB A-FRAME LIFT THAT MAY BE SUITABLE FOR THIS PROJECT (SUITABILITY TO BE DETERMINED BY CONTRACTOR).

CONTRACTOR TO REMOVE THE TWO EXISTING COMMUNUTORS AND THEIR ELECTRIC MOTORS, AND FURNISH AND INSTALL TWO NEW COMMUNUTORS AND ONE NEW MOTOR. ONE OF THE EXISTING MOTORS, AS SELECTED BY OWNER, SHALL BE REINSTALLED. THE OTHER EXISTING MOTOR SHALL BE RETAINED AS A BACKUP MOTOR; CONTRACTOR SHALL PACK THE BACKUP MOTOR IN THE SHIPPING CONTAINER/MATERIALS FROM THE NEW MOTOR, OR EQUIVALENT.

DISCHARGE BY-PASS INTO EQUALIZATION BASIN IF REQUIRED.

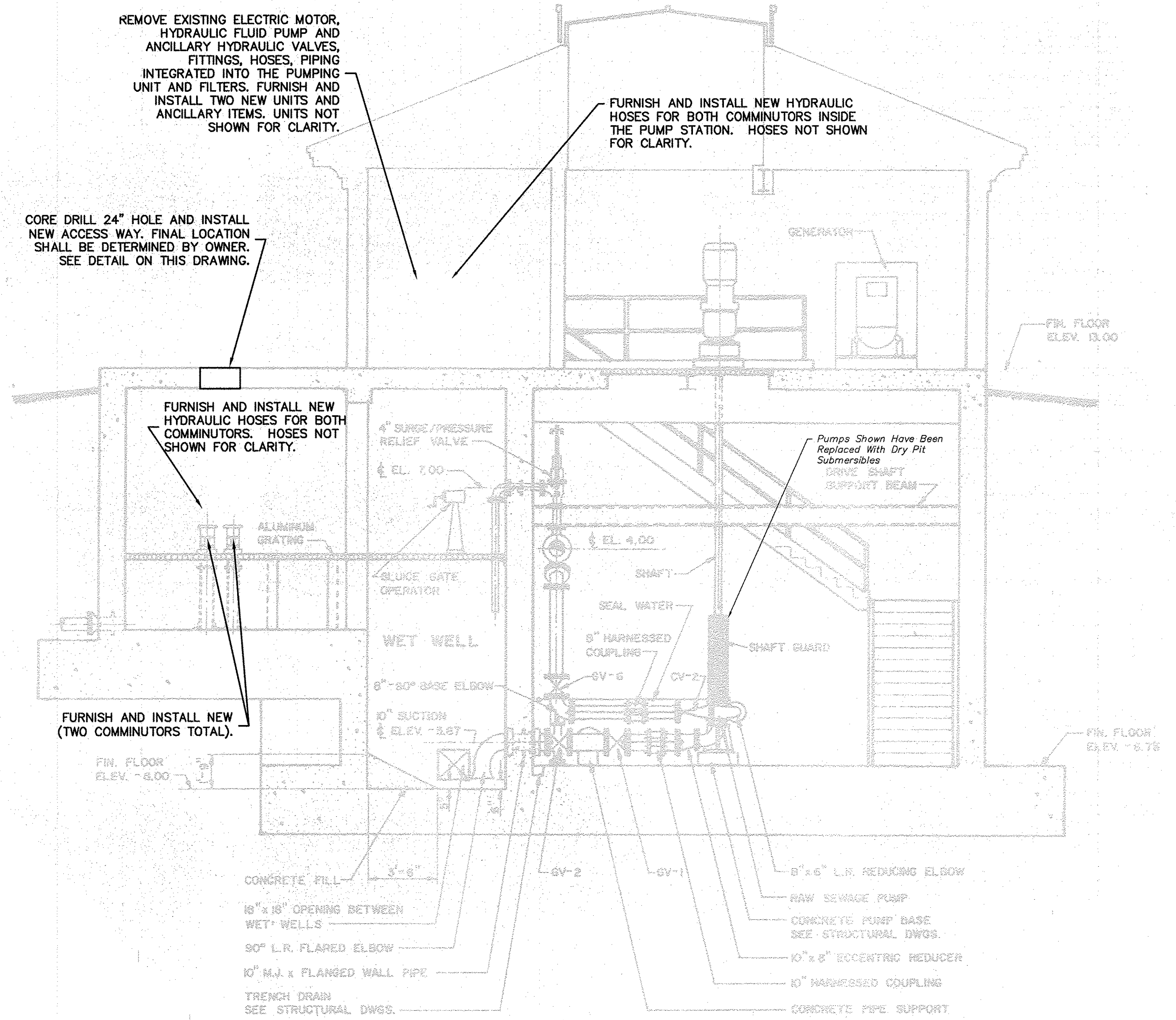
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BOROUGH OF ATLANTIC HIGHLANDS AND HIGHLANDS MONMOUTH COUNTY, NEW JERSEY				
HIGHLANDS CONSTRUCTION PLAN				
		JOSEPH N. GEMMELL, P.E. 		DRAWING CP-1
		LICENSED PROFESSIONAL ENGINEER STATE OF NEW JERSEY LICENSE No. 246E03240500		SHEET 3 OF 4
NEW JERSEY BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS CERTIFICATE OF AUTHORIZATION GA 278807	PROJECT NO. AHHA.00950	DESIGNED BY BAR	/DRAWN BY BAR	CHECKED BY JNG
		CADD FILE PTPW680-ED	FIELD BK. # N/A	



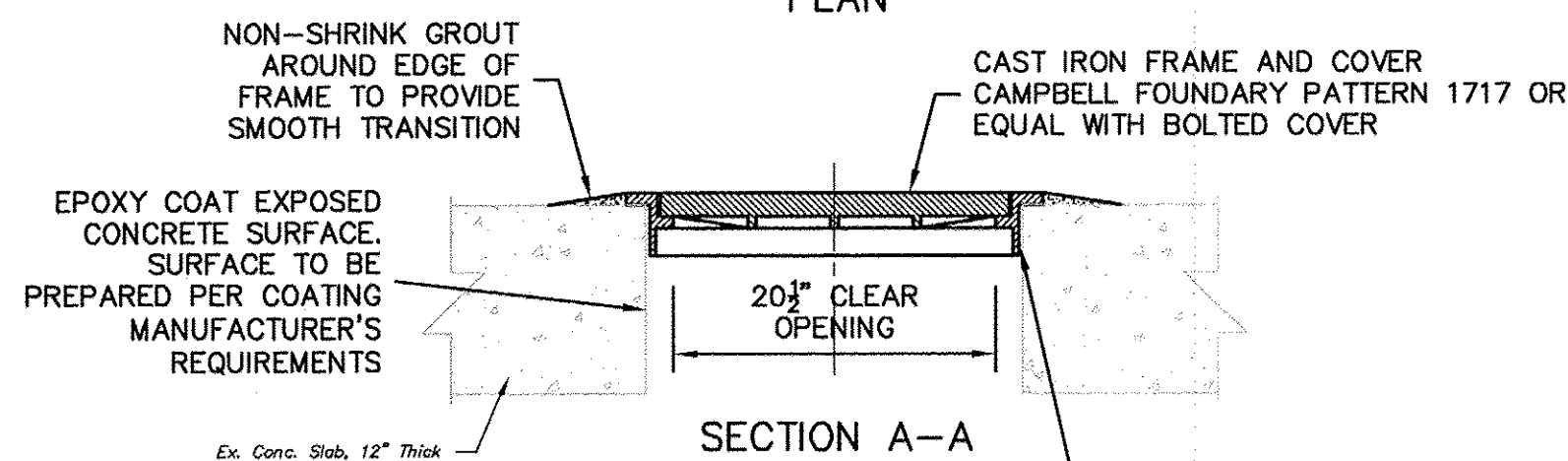
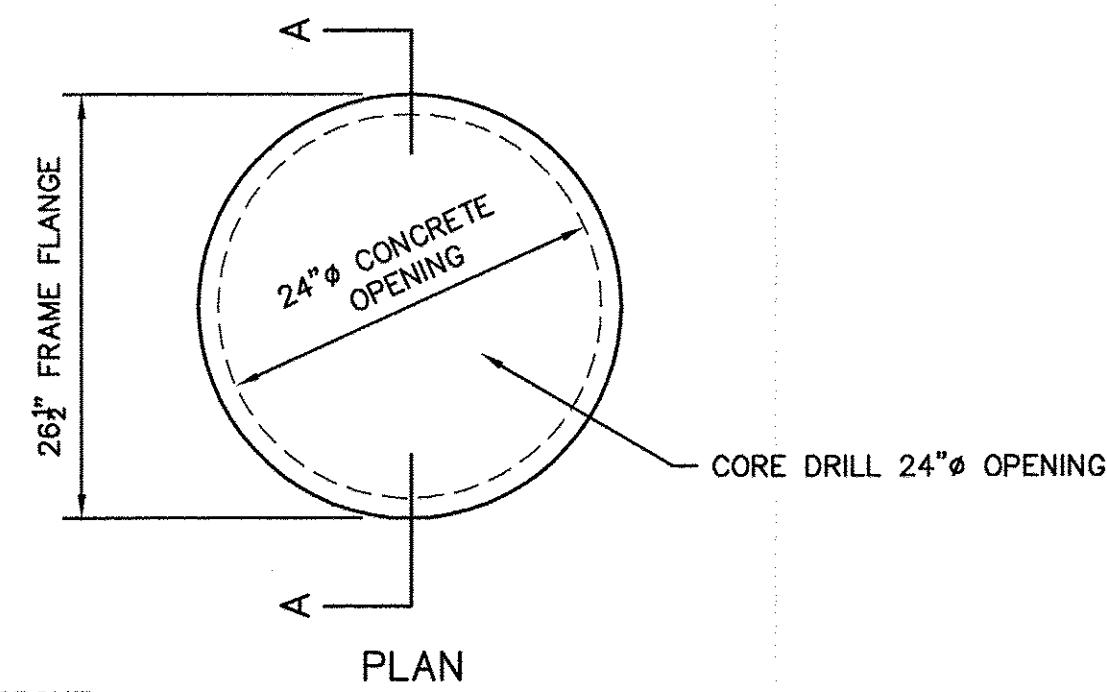
PUMP ROOM AND INLET CHAMBER MECHANICAL PLAN

SCALE: 1/4"=1'



PUMP STATION SECTION B-B

SCALE: 1/4"=1'



ACCESS WAY DETAIL

SCALE: 1" = 1'-0"

CONSTRUCTION NOTES:

1. THE BACKGROUND FOR THE MECHANICAL AND ELECTRIC PLAN AND SECTION DRAWING HAS BEEN PREPARED FROM PUMP STATION DRAWINGS PREVIOUSLY PREPARED BY T&M ASSOCIATES. BACKGROUND REFERENCES TO OTHER DRAWINGS SHALL BE IGNORED. PUMPS AND MOTORS SHOWN HAVE BEEN REPLACED WITH DRY PIT SUBMERSIBLES.
2. EXISTING HYDRAULIC PIPING BETWEEN HYDRAULIC POWER UNITS AND COMMUNITORS SHALL BE REUSED.

- NOTE:
1. PRIOR TO PLACING NON-SHRINK GROUT, CONTRACTOR SHALL APPLY A CONCRETE BONDING AGENT AND PREPARE THE EXISTING SURFACE IN ACCORDANCE WITH THE GROUT MANUFACTURER'S RECOMMENDATIONS.

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BOROUGH OF ATLANTIC HIGHLANDS AND HIGHLANDS MONMOUTH COUNTY, NEW JERSEY				
ATLANTIC HIGHLANDS CONSTRUCTION PLAN				
T&M ASSOCIATES 11 TINDALL ROAD MIDDLETOWN, NJ 07748 TEL 732-671-6400 FAX 732-671-7365		JOSEPH N. GEMMELL, P.E. <i>Joseph N. Gemmell</i> LICENSED PROFESSIONAL ENGINEER STATE OF NEW JERSEY LICENSE No. 24GE03240500		DRAWING CP-2 SHEET
DESIGNED BY BAR	DRAWN BY BAR	CHECKED BY JNG	DATE 2/6/12	FIELD BK. # N/A
PROJECT NO. AHHA.00950	CADD FILE PTWP660-ED	CHECKED BY JNG	DATE 2/6/12	FIELD BK. # N/A