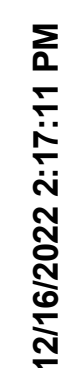


APPENDIX C.26
CASE 10-T-0139
SITE PLANS AND CONSTRUCTION DRAWINGS
FDNY PACKAGE
ASTORIA HVDC CONVERTER STATION
SEGMENT 22



GENERAL NOTES:

- THE PLANS SHOW SUBSURFACE STRUCTURES, ABOVE GROUND STRUCTURES, AND/OR UTILITIES FROM FIELD LOCATION AND RECORD MAPPING. EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES, AND/OR UTILITIES IN THE AREA MAY BE DIFFERENT FROM THAT SHOWN OR MAY NOT BE SHOWN, AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. 48 HOURS BEFORE YOU DIG, DRILL, OR BLAST, CALL UNDERGROUND FACILITIES PROTECTION ORGANIZATION (UFPD) 1-(800)-962-7962 TOLL FREE.
- THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
- THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL PUBLIC AND PRIVATE PROPERTY, INCLUDING ALL EXISTING VEGETATION, EXISTING LANDSCAPE FEATURES, AND MONUMENTS WITHIN, ALONG, AND ADJACENT TO THE PROPERTY. ALL AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO A PLEASING AND ACCEPTABLE CONDITION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND INCURRING THE COST OF ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES, ETC. AND SHALL COMPLY WITH ALL REQUIRED PERMITS.
- ALL WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES, STANDARDS, ORDINANCES, RULES, AND REGULATIONS.
- ALL PROPOSED UTILITIES AND APPURTENANCES SHALL BE CONSTRUCTED IN COMPLIANCE WITH THE LOCAL MUNICIPALITIES' CODES AND REGULATIONS GOVERNING THE INSTALLATION OF SUCH UTILITIES.
- THE ENGINEER RESERVES THE RIGHT TO EXAMINE ANY WORK DONE ON THIS PROJECT AT ANY TIME TO DETERMINE THE CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS OF THIS PROJECT.
- THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE ENGINEER OR OWNER, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE UNDER THE SUPERVISION OF A NEW YORK STATE LICENSED LAND SURVEYOR.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS AND COORDINATE WORK WITH ALL OTHER CONTRACTS FOR THE SITE.
- THE CONTRACTOR SHALL:
 - VERIFY ALL CONDITIONS IN THE FIELD PRIOR TO COMMENCEMENT OF WORK AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
 - EXAMINE THE SITE AND INCLUDE IN HIS WORK THE EFFECT OF ALL EXISTING CONDITIONS ON THE WORK.
 - PROVIDE AND INSTALL ALL MATERIALS AND PERFORM ALL WORK IN ACCORDANCE WITH GOOD STANDARD PRACTICE.
- ALL TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH THE LATEST REVISIONS OF NEW YORK CITY BUILDING CODE CHAPTER 33 AND OSHA REGULATIONS FOR CONSTRUCTION. SHEET PILING SHALL BE DESIGNED AND SEALED BY A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTINE DEWATERING RELATED TO THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK. CONTRACTOR SHALL MAINTAIN EXISTING SITE DRAINAGE PATTERNS THROUGHOUT CONSTRUCTION UNLESS OTHERWISE SHOWN ON THE PLANS. DEWATERING FOR MAJOR CONSTRUCTION ITEMS IS NOT THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PERFORMED BY TDI.
- CONTRACTOR SHALL NOT DISRUPT SERVICE TO ANY UTILITIES WITHOUT PRIOR COORDINATION WITH UTILITY OWNER.
- ALL FRAMES/COVERS WITHIN PAVED AREAS SHALL HAVE THE TOPS SET FLUSH WITH THE FINAL PAVEMENT GRADE. IN LANDSCAPED AREAS, ALL FRAMES SHALL BE 0.1' ABOVE GRADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL FIELD LAYOUT. THE CONTRACTOR SHALL PROVIDE MARKED-UP AS-BUILT PLANS FOR ALL UTILITIES SHOWING TIE-IN AND CONNECTIONS, BENDS, VALVES, LENGTHS OF LINES, AND INVERTS. AS-BUILT PLANS FOR ALL UTILITIES SHOWING TIES TO CONNECTIONS, BENDS, VALVES, LENGTHS OF LINES, AND INVERTS. AS-BUILT PLANS SHOWING ALL UNDERGROUND UTILITIES INSTALLED OR ENCOUNTERED SHALL BE SUBMITTED TO THE OWNER AND HIS REPRESENTATIVES.
- CONTRACTOR SHALL MAINTAIN ALL TRAFFIC IN ALL AREAS (INCLUDING THE ADJACENT ROADWAYS TO THE SITE AND CONSTRUCTION VEHICLE ENTRANCE AND EXIT TO THE SITE) AS PER COORDINATION WITH ADJACENT PROPERTY OWNERS.
- ALL EXCAVATIONS SHALL BE PROTECTED AT THE END OF EACH WORK DAY.
- CONTRACTOR SHALL TAKE CARE TO PREVENT DAMAGE TO EXISTING UTILITIES. DAMAGED UTILITIES SHALL BE IMMEDIATELY REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. IF DURING EXCAVATION PREVIOUSLY DAMAGED UTILITIES ARE UNCOVERED, CONTRACTOR SHALL DOCUMENT THE DAMAGE AND REPORT DAMAGE TO THE APPROPRIATE OWNER.
- THE CONTRACTOR MUST COORDINATE HIS SCHEDULE OF OPERATIONS WITH THE VARIOUS UTILITY OWNERS INVOLVED WITH THE PROJECT AND SHALL VERIFY UTILITY INFORMATION FOUND IN THE CONTRACT DOCUMENTS.
- PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, TDI SHALL COORDINATE WITH ALL THE KNOWN PUBLIC AND PRIVATE UTILITY COMPANIES THAT MAY HAVE POTENTIAL IMPACT TO OVERHEAD AND UNDERGROUND UTILITIES FROM THE CONTRACTORS WORK. THE CONTRACTOR SHALL, AT THIS MEETING, INFORM THE UTILITY COMPANIES OF HIS SCHEDULE OF OPERATIONS SO THAT UTILITY COMPANIES PLAN AND SCHEDULE THEIR ACTIVITIES ACCORDINGLY.
- THE CONTRACTOR IS GOVERNED BY AND MUST ADHERE TO THE PROVISIONS OF THE 16 NYCRR PART 753, "PROTECTION OF UNDERGROUND FACILITIES," AND ALL ITS AMENDMENTS; I.E. CALL 811 DIG SAFE PRIOR TO BREAKING GROUND
- THE CONTRACTOR SHALL CONDUCT ALL OPERATIONS IN ACCORDANCE WITH ALL OSHA RULES AND REGULATIONS AND IN ACCORDANCE WITH NEW YORK STATE LABOR LAW, SECTION 202-H, "THE HIGH VOLTAGE PROXIMITY ACT."
- REFER TO FLOOD INSURANCE RATE MAP (FIRM) NUMBER 3604970092G FOR THE PROJECT SITE. THE SPECIAL FLOOD HAZARD AREA TYPE IS ZONE AE AND X. BASE FLOOD ELEVATION IS 13' AND DESIGN FLOOD ELEVATION IS 15'.
- EXISTING IMPERVIOUS SURFACE AREA WITHIN THE PROPERTY LIMITS TOTALS 4.36 ACRES, WHILE PROPOSED IMPERVIOUS SURFACE AREA TOTALS 7.77 ACRES.
- METALLIC EQUIPMENT SUCH AS FENCE, HAND RAILS, GUARDRAIL, SUPPORT FRAMES, OR ANY OTHER MISCELLANEOUS DEVICE LOCATED OUTDOORS SHALL BE BONDED TO GROUND. COORDINATE WITH ELECTRICAL PLANS AND CONTRACTOR FOR REQUIREMENTS.
- ALL ELEVATIONS MENTIONED IN THIS PACKAGE ARE IN THE NAVD 88 DATUM UNLESS OTHERWISE STATED.

FL FLOOD:

- FL-1. THE SITE IS DEFINED AS A ZONE (NON-COASTAL).
- FL-2. THE BASE FLOOD ELEVATION, BFE, = 13 FEET NAVD 88.
- FL-3. RECOMMENDED FREE BOARD BY THE 2022 NYCBC-APPENDIX G IS 2.0 FEET.
- FL-4. RECOMMENDED DESIGN FLOOD ELEVATION, DFE = 15 FEET NAVD 88.
- FL-5. THE STRUCTURE IS NOT SUBJECTED TO HYDRODYNAMIC LOADS.

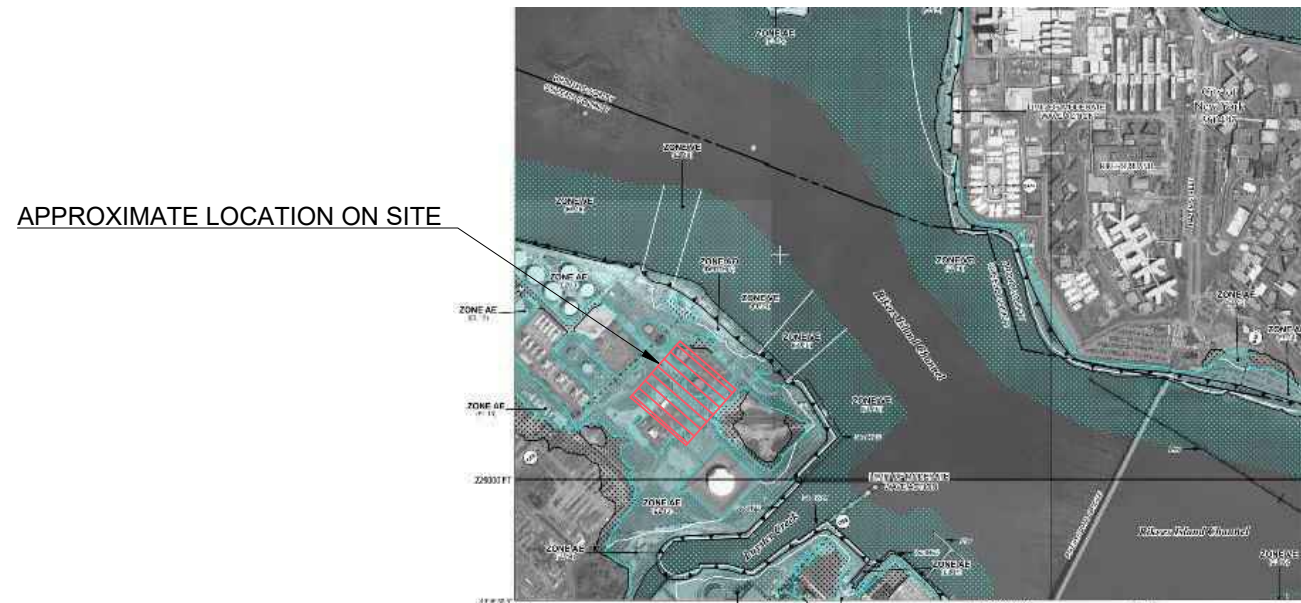
DESIGN ELEVATION / DEPTH	FEET IN NAVD 88
DESIGN BASE FLOOD ELEVATION	13.0
FINISH FLOOR ELEVATION	15.0
SEA LEVEL RISE	NOT CONSIDERED

FEMA FIRM PANEL 3604970092:

FLOOD INSURANCE RATE MAP 2007
ELEVATIONS IN NAVD 88



FLOOD INSURANCE RATE MAP 2015
ELEVATIONS IN NAVD 88 FIRM IS PRELIMINARY



FLOOD ZONE DESIGN CERTIFICATION:

THE EXISTING PROPERTY IS IN A SPECIAL FLOOD HAZARD ZONE (SFHA), ZONE AE PER EFFECTIVE 2015 FLOOD INSURANCE RATE MAP (FIRM). THIS IS TO CONFIRM THAT THE PROPOSED INSTALLATION IS IN COMPLIANCE WITH THE REQUIREMENTS SET FORTH IN APPENDIX Q OF THE NYC BUILDING CODE.

NYC ENERGY CODE COMPLIANCE

STATEMENT: TO THE BEST OF MY KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE NEW YORK CITY ENERGY CONSERVATION CODE. PROPOSED WORK MEETS THE GUIDELINES AND INSTRUCTIONS ARE OUTLINED IN THE 2020 NYC ECC CHAPTER 4.

SITE FDNY SHEET INDEX		
DRAWING TITLE	DWG. NO.	
GENERAL NOTES	C-001.00	
LEGEND AND ABBREVIATIONS	C-002.00	
OVERALL SITE PLAN	C-100.00	
OVERALL GRADING PLAN	C-101.00	
ACCESS ROAD PROFILES 1	C-104.00	
ACCESS ROAD PROFILES 2	C-105.00	
TURNING MOVEMENT PLAN - FDNY SEAGRAVE TRUCK (ALTERNATIVE 1)	C-106.00	
TURNING MOVEMENT PLAN - FDNY SEAGRAVE TRUCK (ALTERNATIVE 2)	C-107.00	
TURNING MOVEMENT PLAN - FDNYSEAGRAVE TRUCK (ALTERNATIVE 3)	C-108.00	
TURNING MOVEMENT PLAN - HL-93 TRUCK (ALTERNATIVE 1)	C-109.00	
TURNING MOVEMENT PLAN - HL-93 TRUCK (ALTERNATIVE 2)	C-110.00	
TURNING MOVEMENT PLAN - HL-93 TRUCK (ALTERNATIVE 3)	C-111.00	
TURNING MOVEMENT PLAN - HL-93 TRUCK STORAGE ENCLOSURE DRIVEWAY	C-112.00	
TURNING MOVEMENT VEHICLE DETAILS	C-113.00	
TURNING MOVEMENT VERTICAL PROFILE - FDNY SEAGRAVE TRUCK	C-114.00	
TURNING MOVEMENT VERTICAL PROFILE - FDNY SEAGRAVE TRUCK	C-115.00	
TURNING MOVEMENT VERTICAL PROFILE - FDNY SEAGRAVE TRUCK	C-116.00	
TURNING MOVEMENT VERTICAL PROFILE - AASHTO HL-93 TRUCK	C-117.00	
TURNING MOVEMENT VERTICAL PROFILE - AASHTO HL-93 TRUCK	C-118.00	
TURNING MOVEMENT VERTICAL PROFILE - AASHTO HL-93 TRUCK	C-119.00	

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B	FINAL SUBMISSION	AB	JL	11/8/22	
A	INTERIM SUBMISSION	NS	JL	8/29/22	
REV	DESCRIPTION	DRW BY	CHK BY	DATE	



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Woodcliff Lake, NJ 07677

Hitachi Energy

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Raleigh, North Carolina 27606

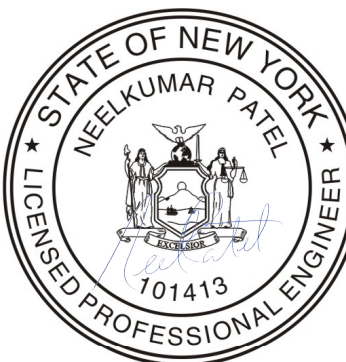
PROJECT

CHPE
Champlain Hudson
Power Express

**Astoria HVDC
Converter Station**

31-45 20th Avenue, Astoria, Queens NY 11105
Block #850 - Lot #310 - BIN #4624437

GENERAL NOTES



DATE NOVEMBER 8, 2022
PROJECT NO 105121
DRAWING BY A.BUDARAPU
CHECKED BY J.LLORENTE
DRAWING NO
C-001.00
CADD FILE NO


LEGENDS & SYMBOLS

	EXISTING EASEMENT FOR DOCK INGRESS AND EGRESS
	EXISTING EASEMENT FOR INGRESS AND EGRESS
	EXISTING EASEMENT FOR STORM WATER LINE
	EXISTING EASEMENT FOR SANITARY SEWER
	EXISTING EASEMENT FOR WATER LINE
	EXISTING PROPERTY LINE
	EXISTING HIGH VOLTAGE ELECTRIC
	EXISTING OVERHEAD ELECTRIC
	EXISTING CATCH BASIN
	PROPOSED ALIGNMENT CENTERLINE
	PROPOSED ALIGNMENT STATIONING
	PROPOSED FENCE
	PROPOSED GUIDE RAIL
	PROPOSED RETAINING WALL
	PROPOSED SECURITY GATE
	PROPOSED SPOT ELEVATION
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED LIGHT POLE

ABBREVIATIONS

AASHTO = AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	OC = ON CENTER
AC = ALTERNATING CURRENT	OD = OUTER DIAMETER
AD = TANGENT OFFSET AT PVI	OSHA = OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
APPROX = APPROXIMATE	PCC = PORTLAND CEMENT CONCRETE
ASCE = AMERICAN SOCIETY OF CIVIL ENGINEERS	PCD = PRECAST CONCRETE DUCTS
ASTM = AMERICAN SOCIETY OF TESTING AND MATERIALS	PVI = POINT OF VERTICAL INTERSECTION
BVCE = BEGINNING OF VERTICAL CURVE ELEVATION	PVMT = PAVEMENT
BVCS = BEGINNING OF VERTICAL CURVE STATION	STA = STATION
CB = CATCH BASIN	TYP = TYPICAL
CIP = CAST IN PLACE	RCP = REINFORCED CONCRETE PIPE
CONC = CONCRETE	RD = ROAD
DIA = DIAMETER	REQ'D = REQUIRED
DIP = DUCTILE IRON PIPE	REV = REVISION
DGA = DENSE GRADED AGGREGATE	RF = REAR FACE
E = EPOXY COATED REBAR	WM = WATER MAIN
ELEV = ELEVATION	WT = WEIGHT
EVCE = END OF VERTICAL CURVE ELEVATION	WWF = WELDED WIRE FABRIC
EVCS = END OF VERTICAL CURVE STATION	WZTC = WORK ZONE TRAFFIC CONTROL
EXIST = EXISTING	YR = YEAR
FF = FRONT FACE	
FDNY = NEW YORK CITY FIRE DEPARTMENT	
FFE = FINISHED FLOOR ELEVATION	
HDPE = HIGH DENSITY POLYETHYLENE	
HPBO = HEAVY POST BLOCK OUT	
HVAC = HEATING, VENTILATION AND AIR CONDITIONING	
HVE = HIGH VOLTAGE ELECTRIC	
ID = INNER DIAMETER	
IPS = IRON PIPE SIZE	
LBS = POUNDS	
LF = LINEAR FEET	
LVC = LENGTH OF VERTICAL CURVE	
MAX = MAXIMUM	
MH = MANHOLE	
MIN = MINIMUM	
MPT = MAINTENANCE AND PROTECTION OF TRAFFIC	
MTS = MANUAL TRANSFER SWITCH	
MVS = MEDIUM VOLTAGE SWITCHGEAR	
N/A = NOT APPLICABLE	
NTS = NOT TO SCALE	
NYC = NEW YORK CITY	
NYCDOT = NEW YORK CITY DEPARTMENT OF TRANSPORTATION	
NYCDEP = NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION	
NYCRR = NEW YORK CITY CODES, RULES AND REGULATIONS	
NYSDOT = NEW YORK STATE DEPARTMENT OF TRANSPORTATION	

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B	FINAL SUBMISSION	AB	JL	11/8/22
A	INTERIM SUBMISSION	MK	JL	8/29/22
REV	DESCRIPTION	DRW BY	CHK BY	DATE



470 Chestnut Ridge Rd # 2,
Woodcliff Lake, NJ 07677



901 Main Campus Drive
Raleigh, North Carolina 27606

PROJECT

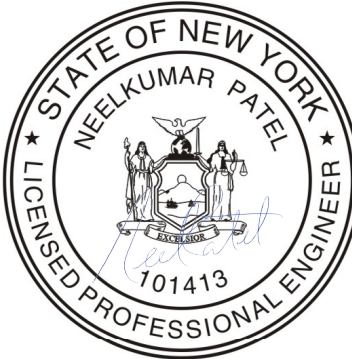


Champlain Hudson
Power Express

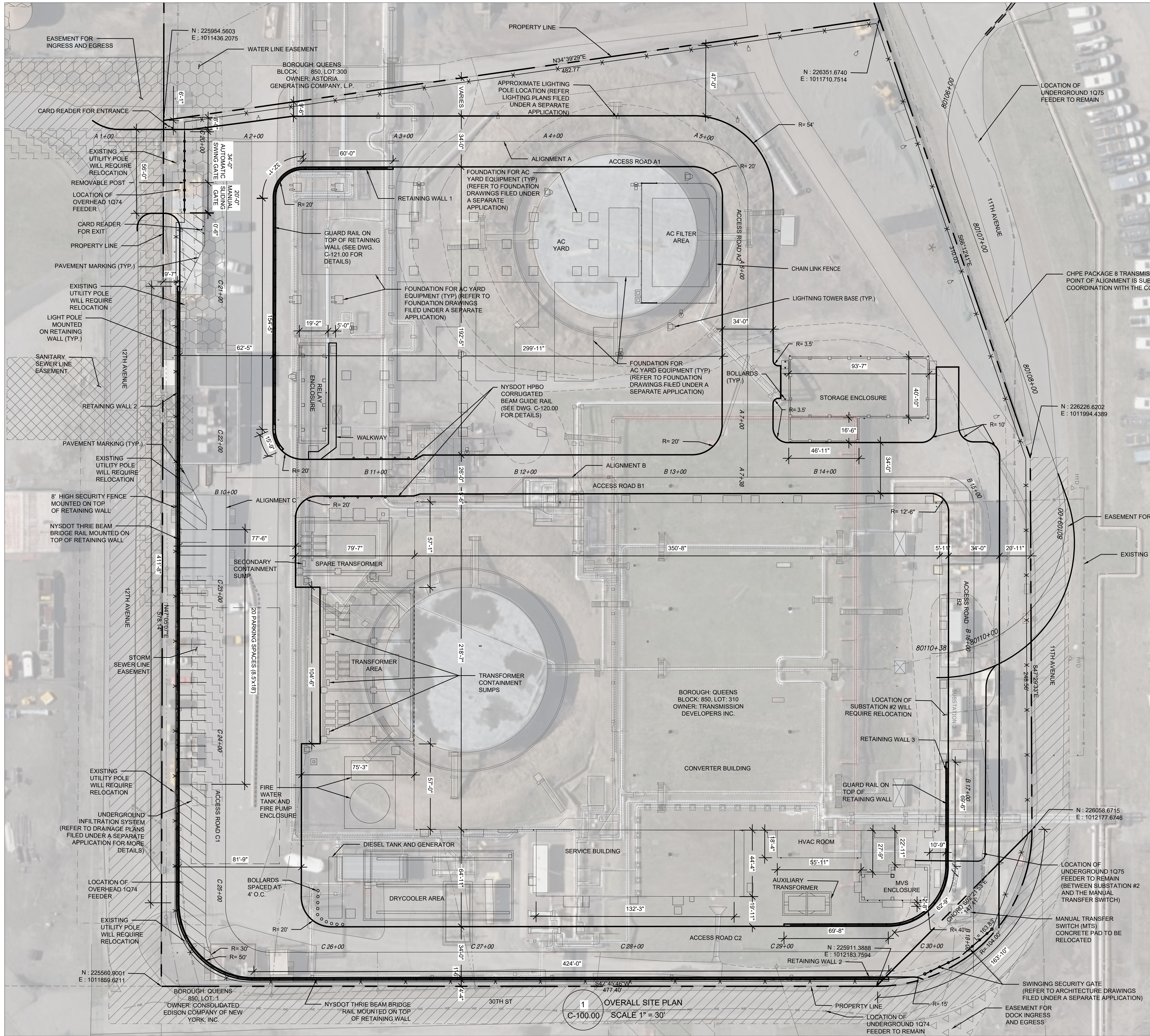
Astoria HVDC
Converter Station

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Block #850 - Lot #310 - BIN #4624437

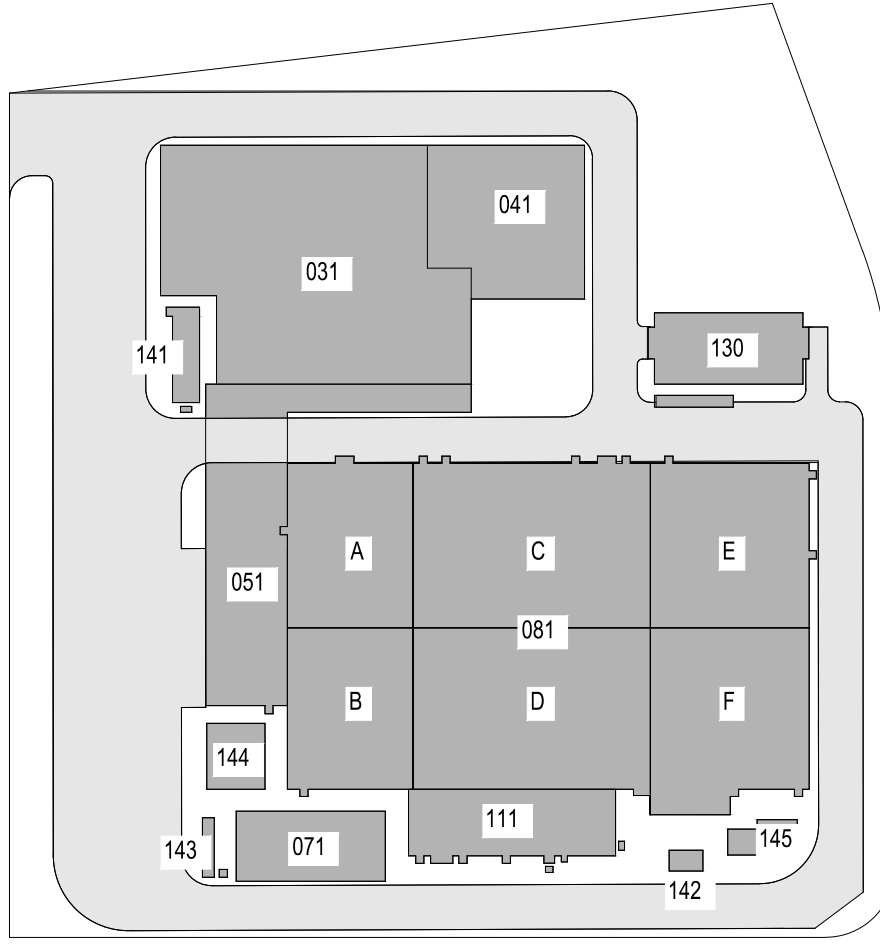
LEGEND AND ABBREVIATIONS



DATE	November 8, 2022
PROJECT NO	105121
DRAWING BY	M. KWOK
CHECKED BY	J.LLORENTE
DRAWING NO	C-002.00
CADD FILE NO	



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REV	DESCRIPTION	DRW BY	CHK BY	DATE
B	FINAL SUBMISSION	AB	NP	11/8/22
A	INTERIM SUBMISSION	AB	NP	8/29/22

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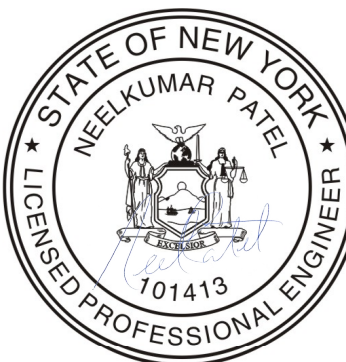
PROJECT

CHPE
Champlain Hudson
Power Express

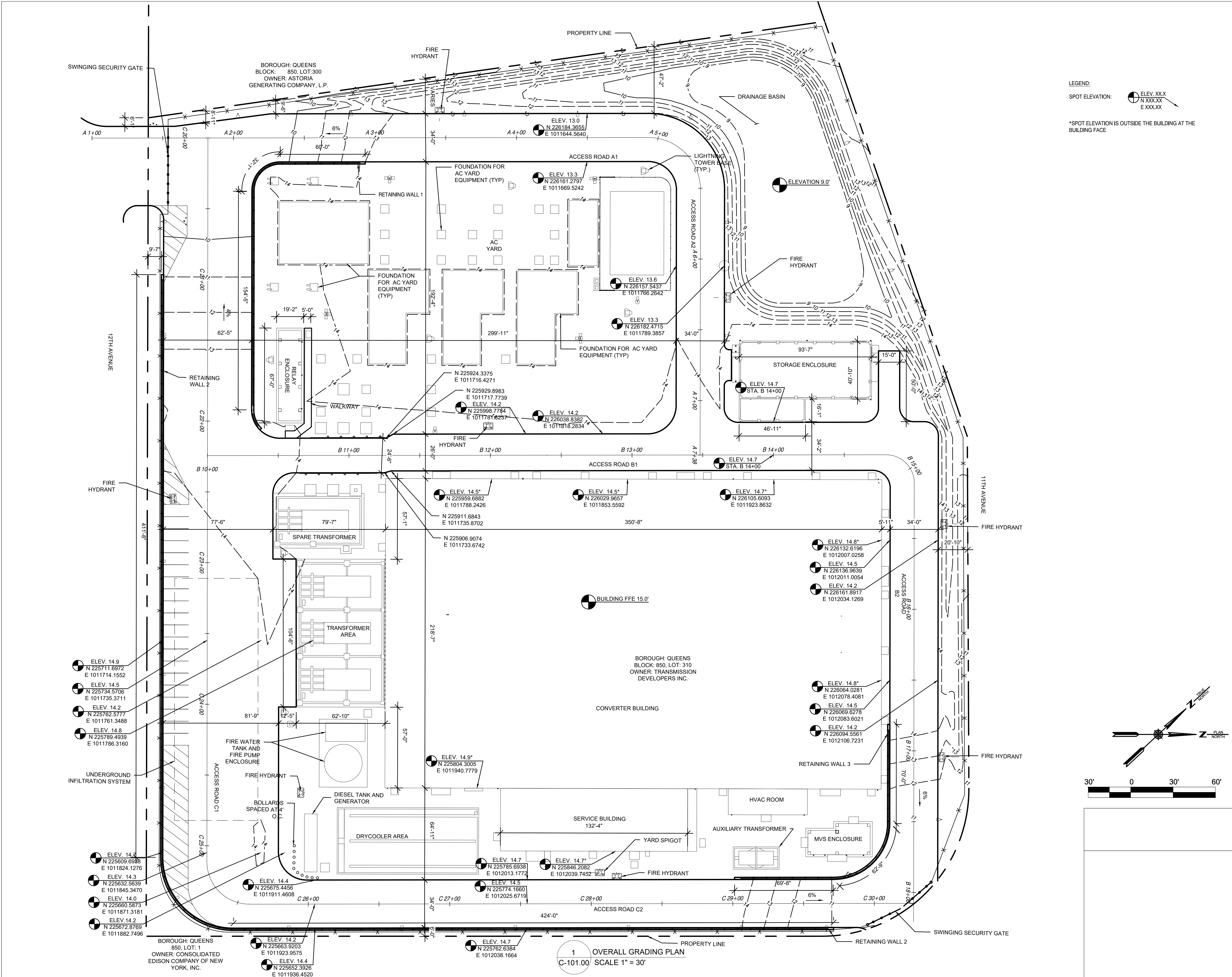
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Block #850 - Lot #310 - BIN #4624437

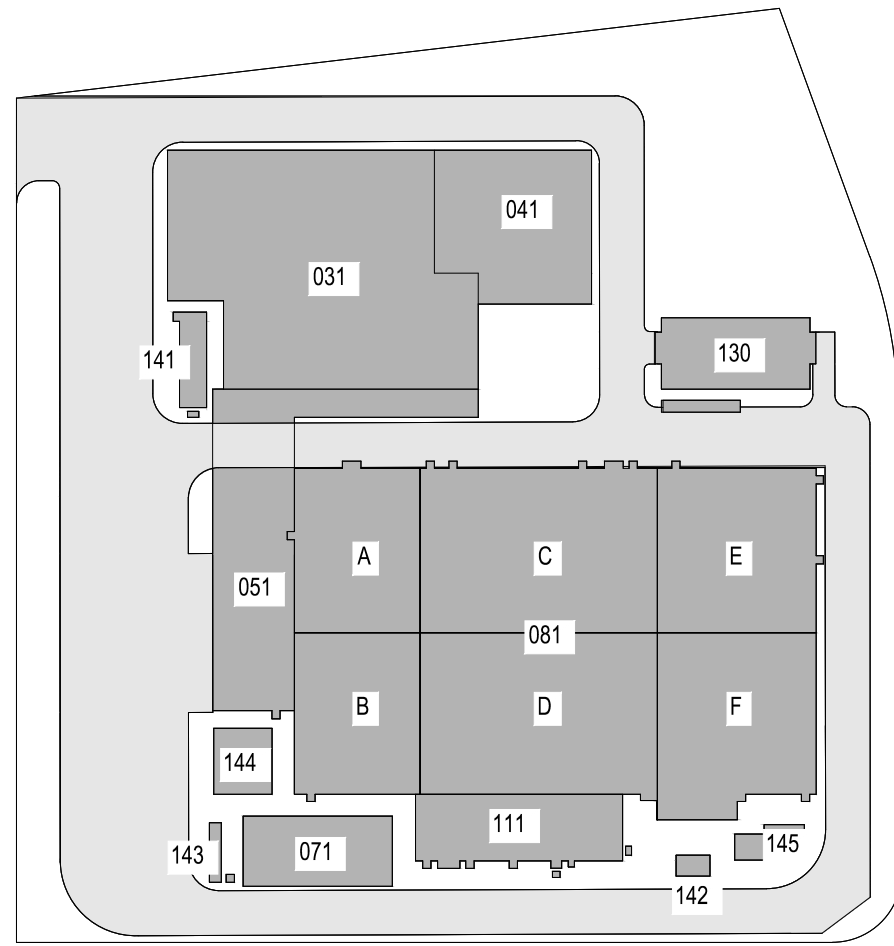
OVERALL SITE PLAN



DATE November 8, 2022
PROJECT NO 105121
DRAWING BY A. BUDARUPU
CHECKED BY N. PATEL
DRAWING NO
C-100.00
CADD FILE NO



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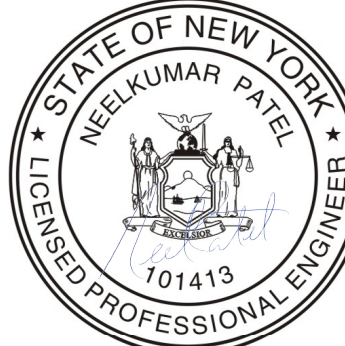
PROJECT

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Champlain Hudson
Power Express

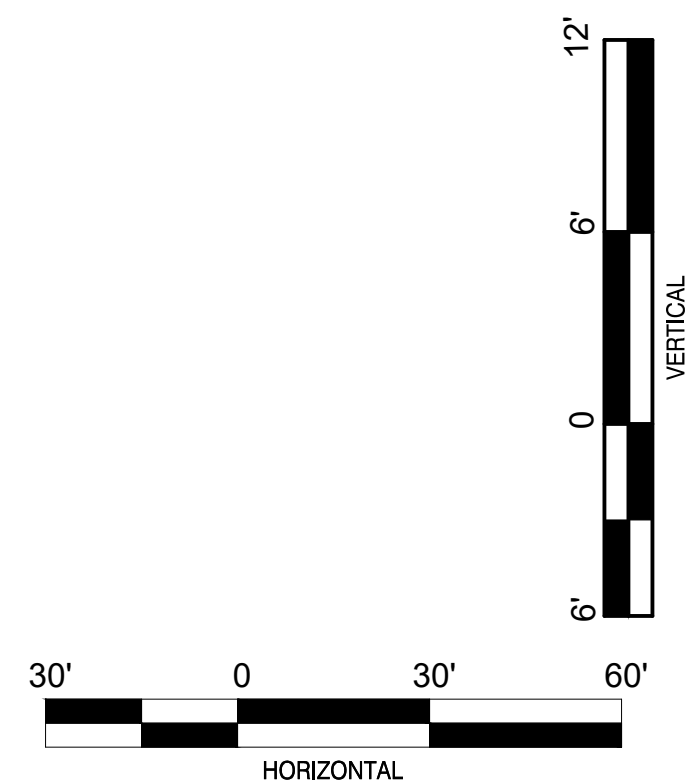
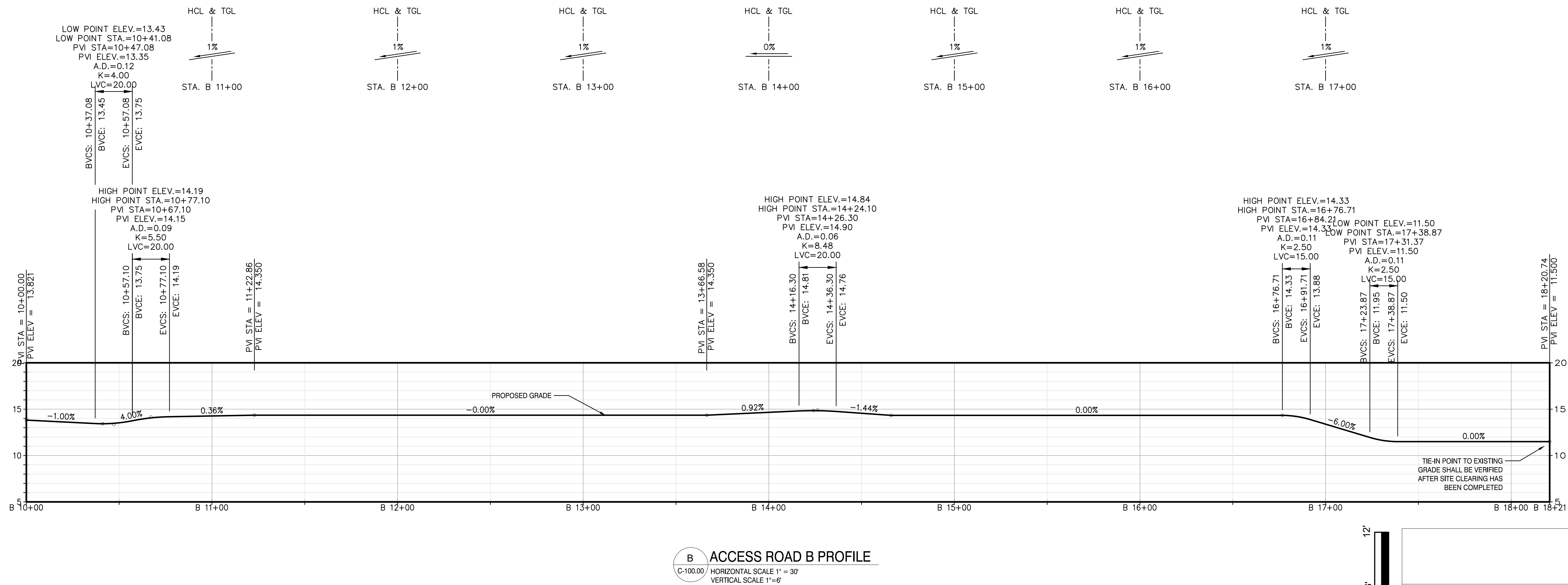
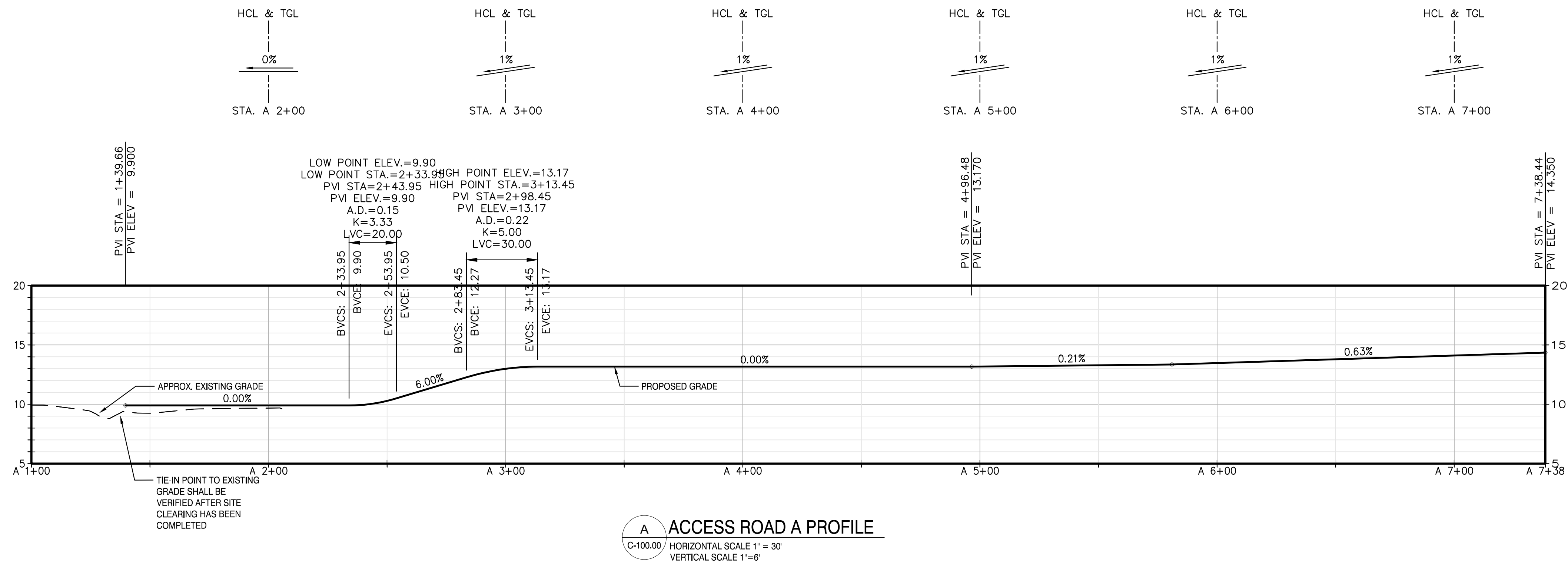
Astoria HVDC
Converter Station

31-45 20th Avenue, Astoria, Queens NY 11105
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OVERALL GRADING PLAN



DATE November 8, 2022
PROJECT NO 105121
DRAWING BY M. PATEL
CHECKED BY N. PATEL
DRAWING NO C-101.00
CADD FILE NO



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Kiewit

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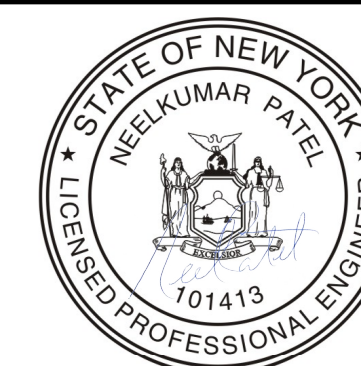
PROJECT

CHPE
Champlain Hudson
Power Express

**Astoria HVDC
Converter Station**

31-45 20th Avenue, Astoria, Queens NY 11105
Block #850 - Lot #310 - BIN #4624437

ACCESS ROAD PROFILES 1



DATE
NOVEMBER 8, 2022

PROJECT NO
105121

DRAWING BY
A.BUDARAPU

CHECKED BY
N.PATEL

DRAWING NO
C-104.00

CADD FILE NO

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Kiewit
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Hitachi Energy
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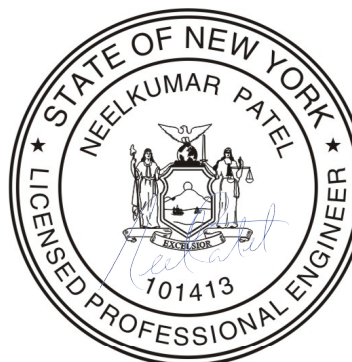
PROJECT

CHPE
Champlain Hudson
Power Express

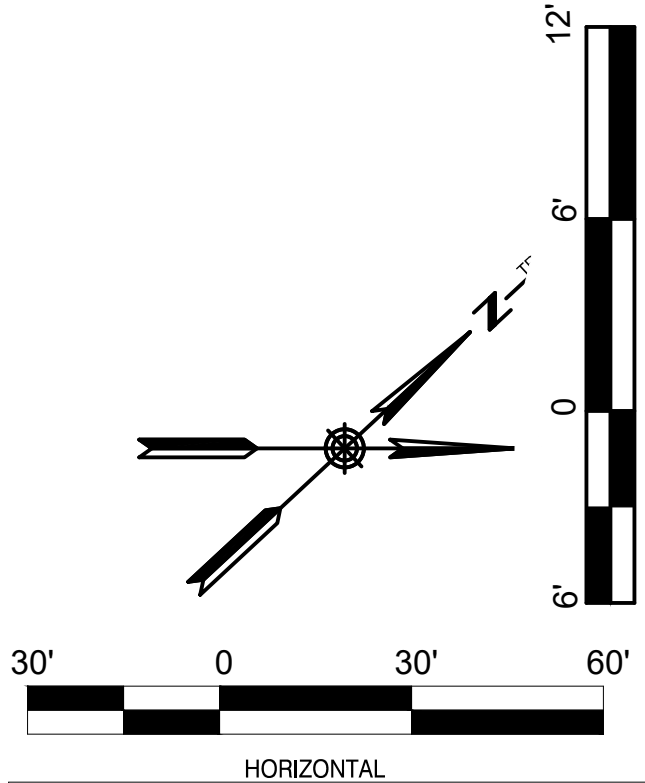
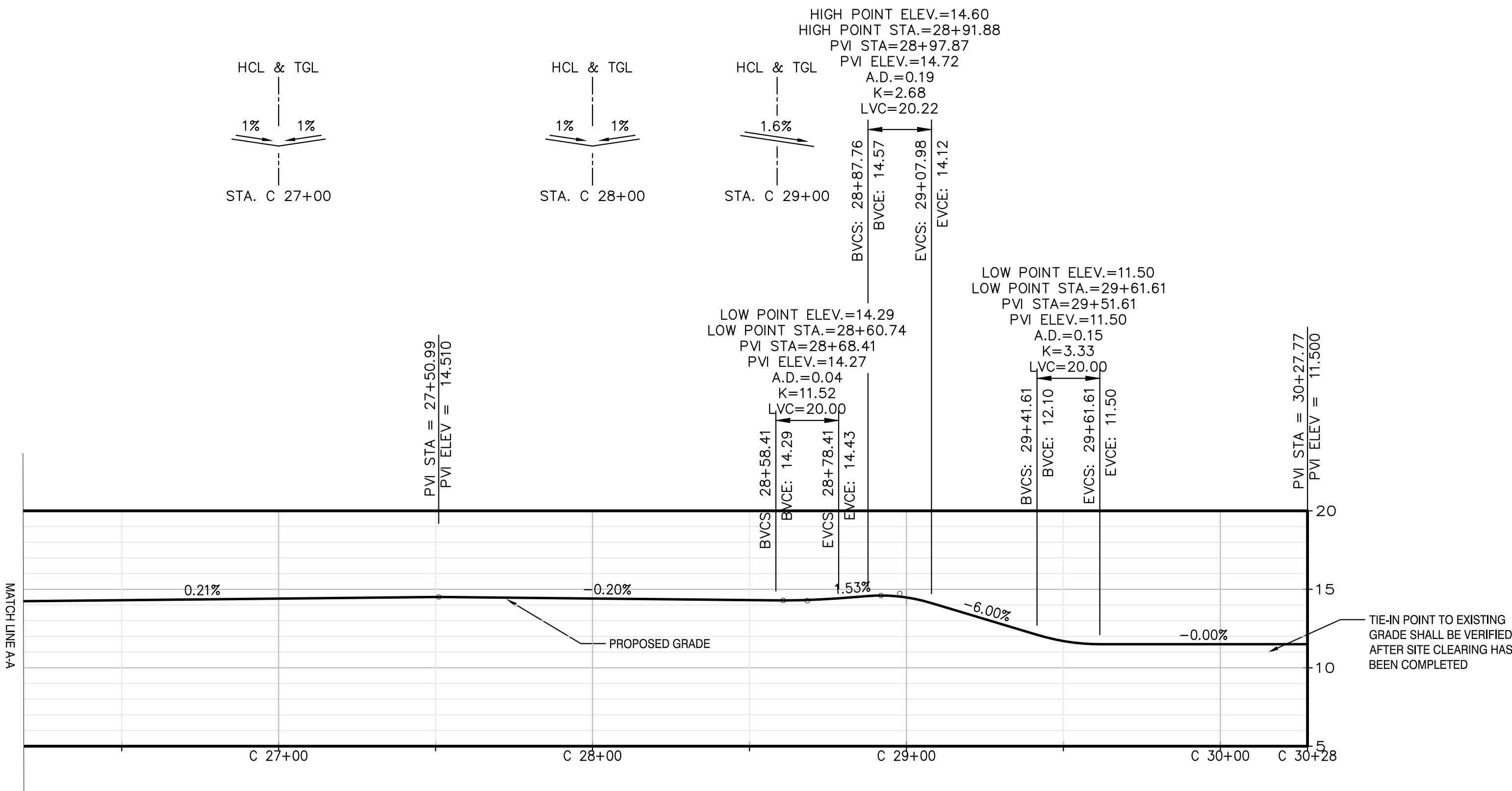
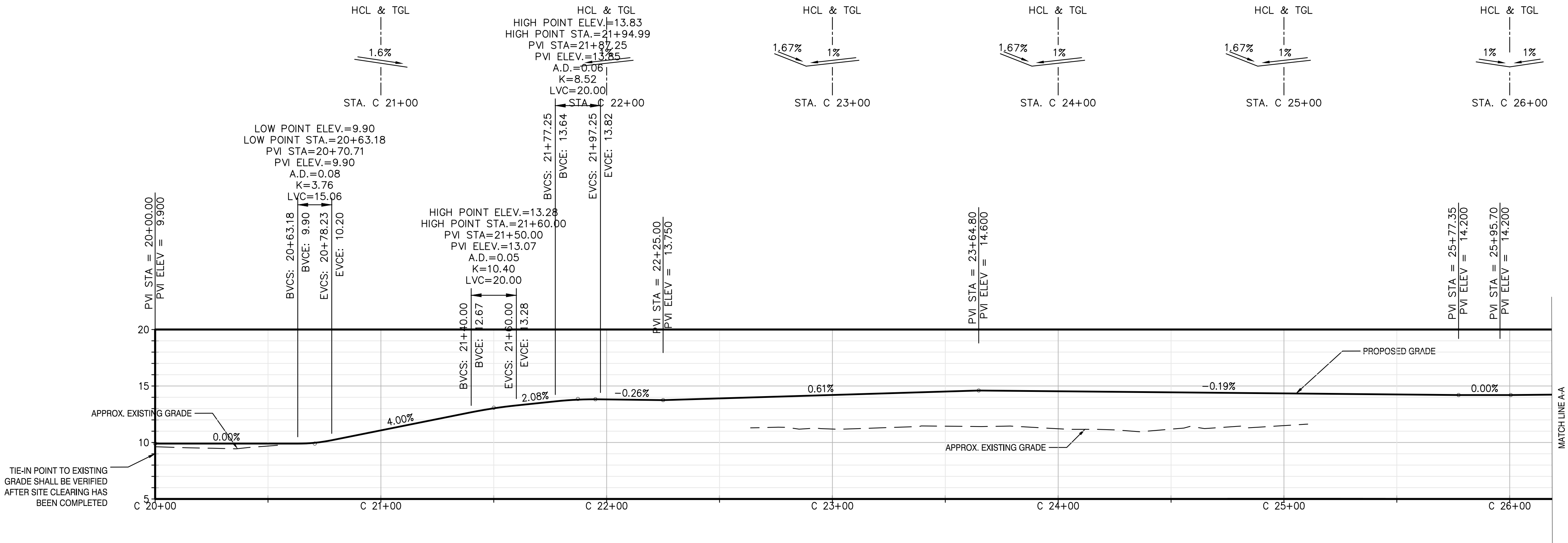
Astoria HVDC
Converter Station

31-45 20th Avenue, Astoria, Queens NY 11105
Block #850 - Lot #310 - BIN #4624437

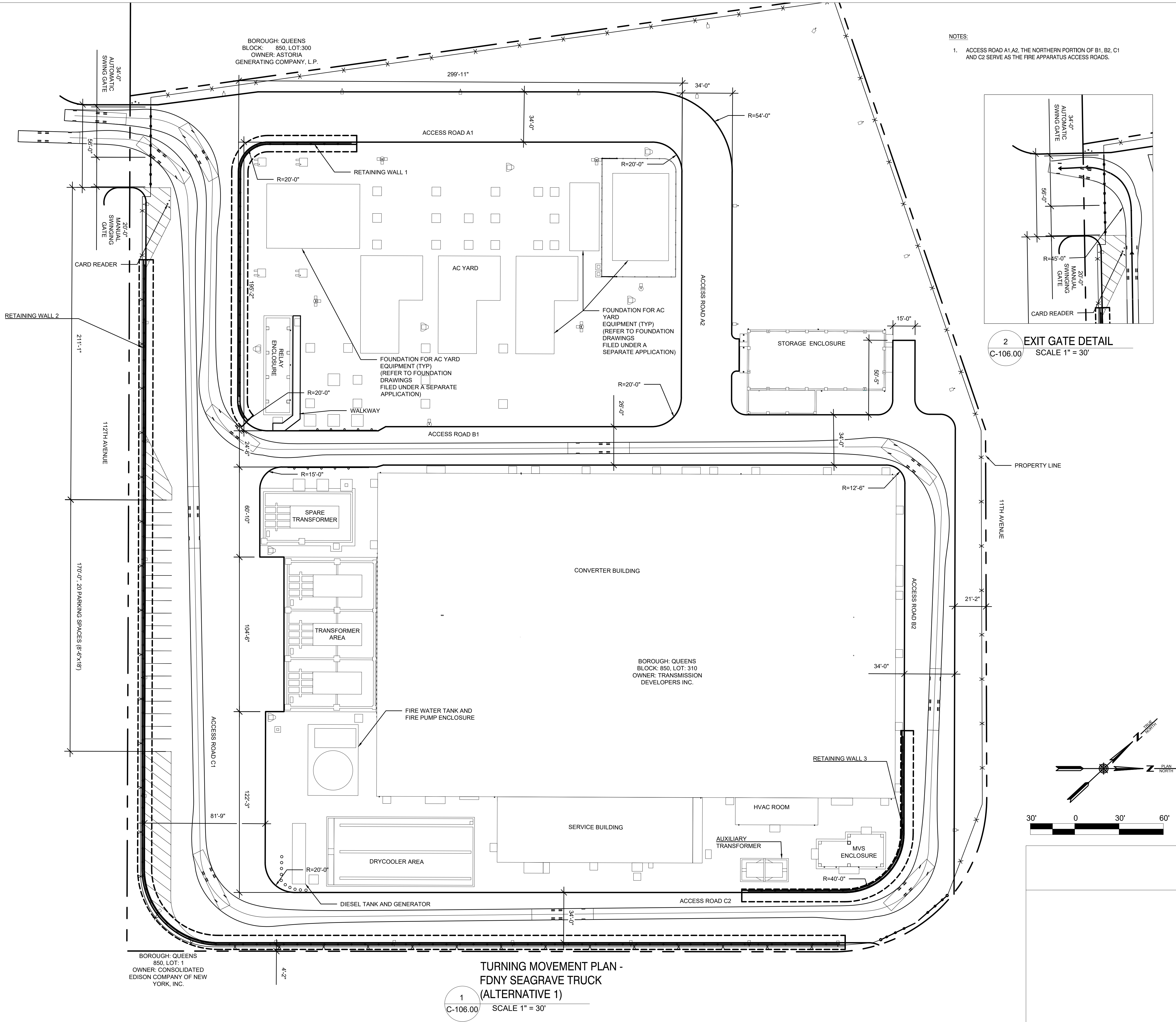
ACCESS ROAD PROFILES 2



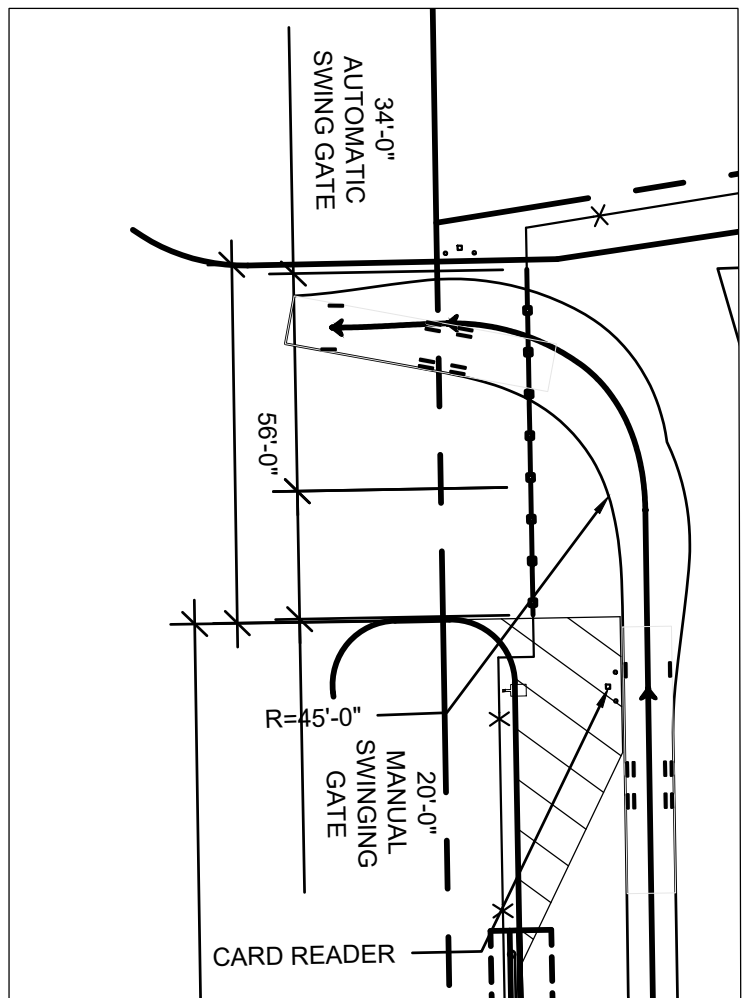
DATE NOVEMBER 8, 2022
PROJECT NO 105121
DRAWING BY A.BUDARAPU
CHECKED BY N.PATEL
DRAWING NO
C-105.00
CADD FILE NO



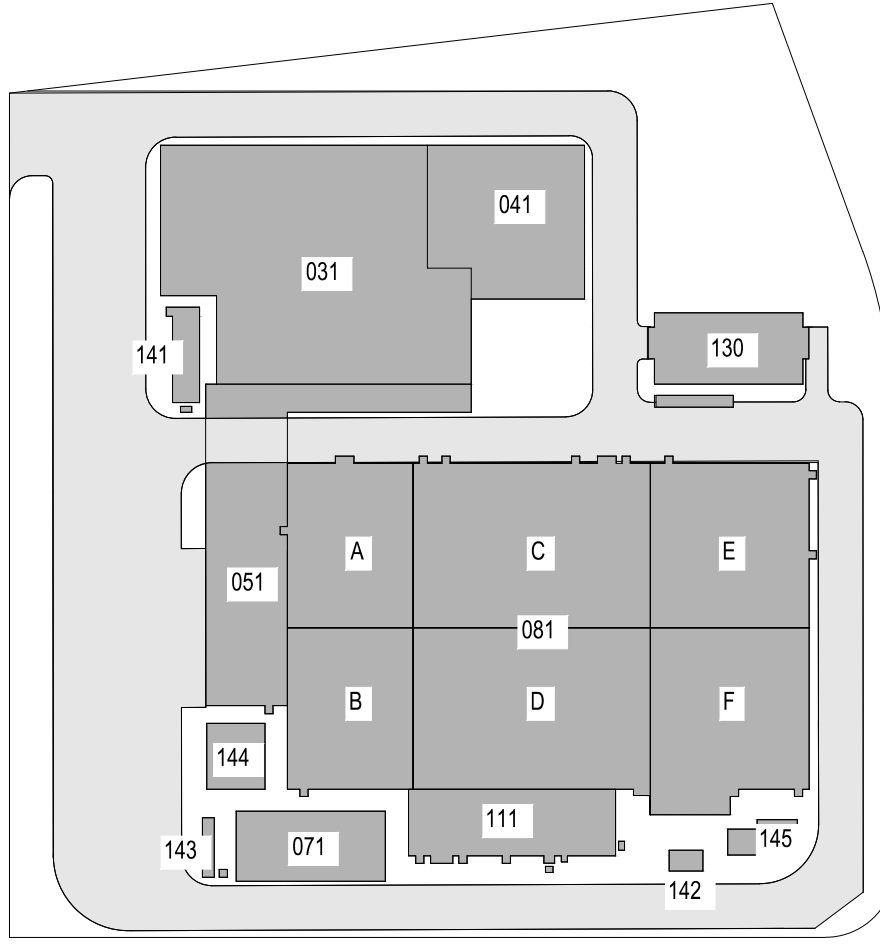
C ACCESS ROAD C PROFILE
C-100.00 HORIZONTAL SCALE 1" = 30'
VERTICAL SCALE 1" = 8'



- NOTES:
1. ACCESS ROAD A1, A2, THE NORTHERN PORTION OF B1, B2, C1 AND C2 SERVE AS THE FIRE APPARATUS ACCESS ROADS.



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B	FINAL SUBMISSION	AB	NP	11/8/22
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REV	DESCRIPTION	DRW BY	CHK BY	DATE

Kiewit
470 Chestnut Ridge Rd # 2,
Woodcliff Lake, NJ 07677

Hitachi Energy
901 Main Campus Drive
Raleigh, North Carolina 27606

PROJECT

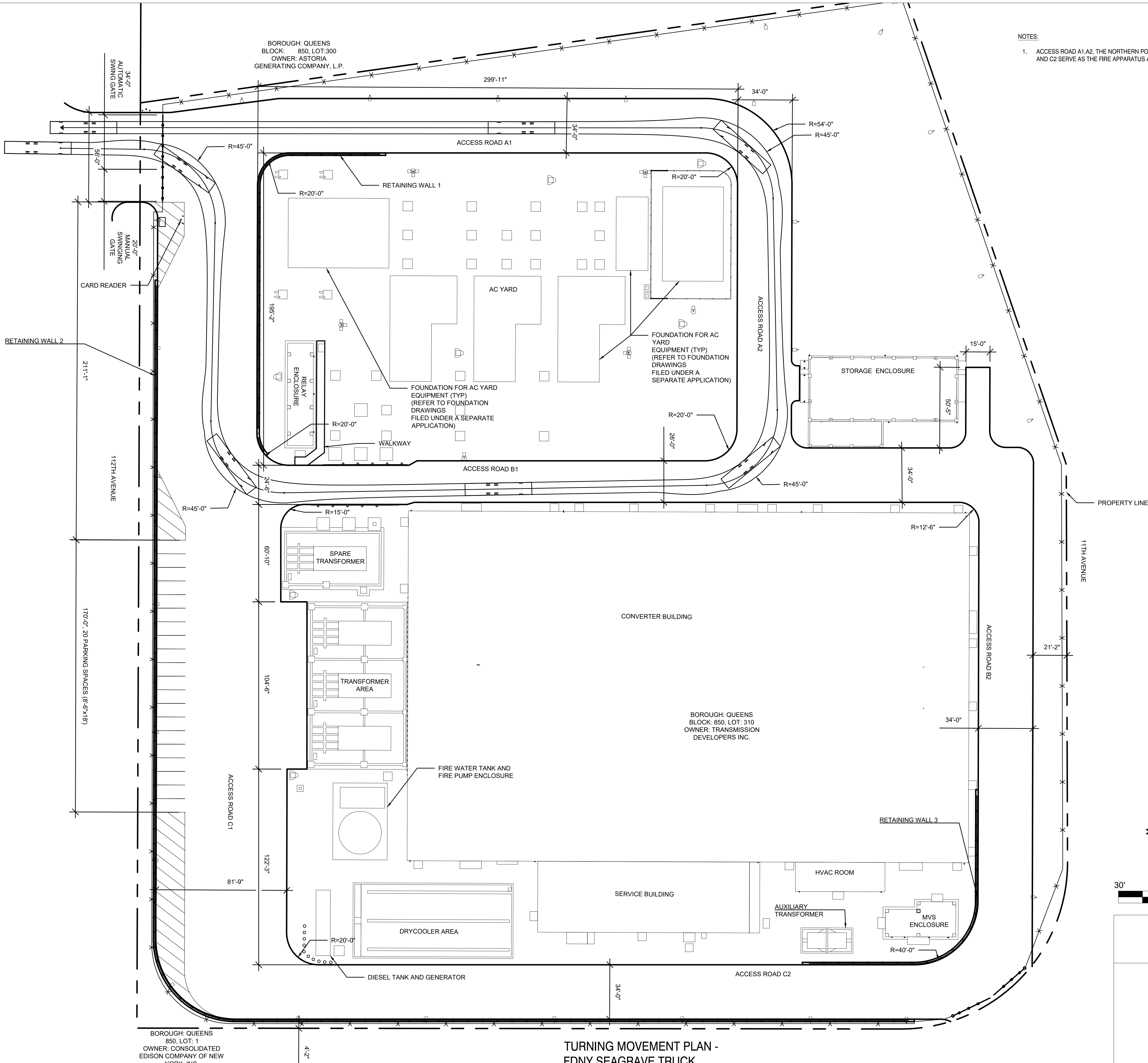
CHPE
Champlain Hudson
Power Express

**Astoria HVDC
Converter Station**
31-45 20th Avenue, Astoria, Queens NY 11105
Block #850 - Lot #310 - BIN #4624437

TURNING MOVEMENT PLAN
FDNY SEAGRAVE TRUCK
(ALTERNATIVE 1)

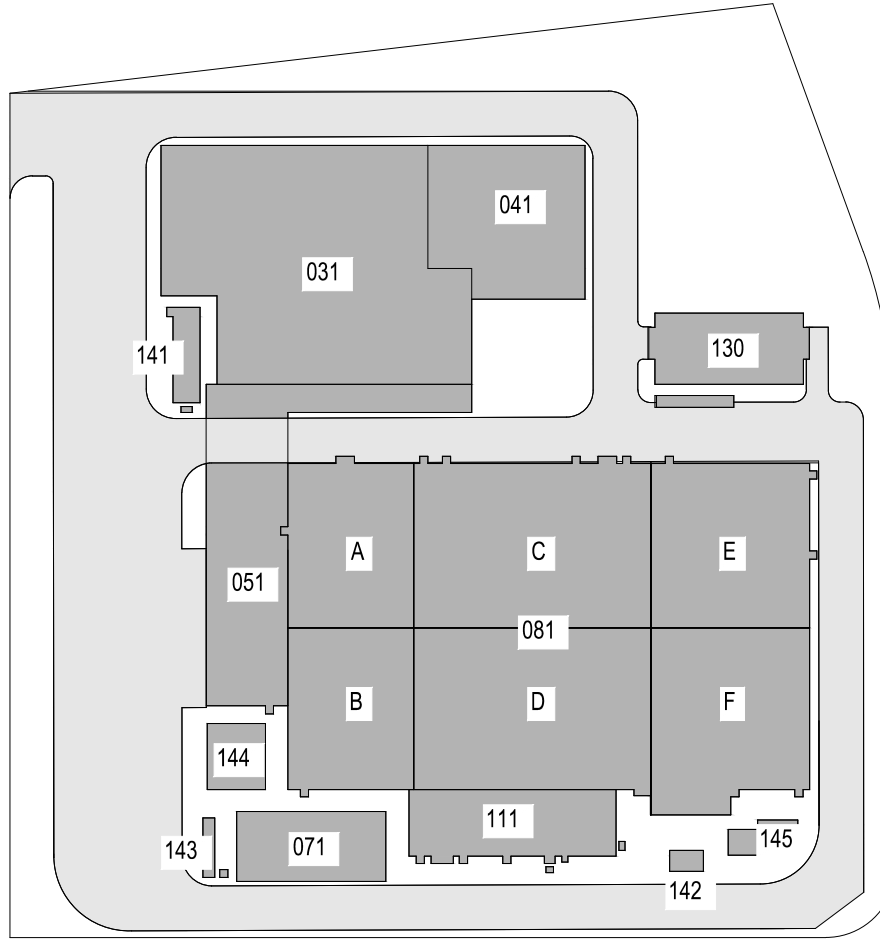
STATE OF NEW YORK
NEELKUMAR PATEL
LICENSED PROFESSIONAL ENGINEER
101413

DATE: November 8, 2022
PROJECT NO: 105121
DRAWING BY: A. BUDARAPU
CHECKED BY: N. PATEL
DRAWING NO: **C-106.00**
CADD FILE NO:



- NOTES:
1. ACCESS ROAD A1 A2, THE NORTHERN PORTION OF B1, B2, C1 AND C2 SERVE AS THE FIRE APPARATUS ACCESS ROADS.

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A	INTERIM SUBMISSION	AB	NP	8/29/22

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Woodcliff Lake, NJ 07677

Hitachi Energy
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Raleigh, North Carolina 27606

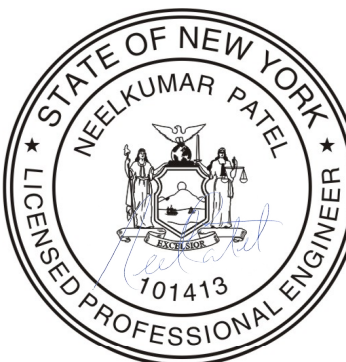
PROJECT

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Champlain Hudson
Power Express

**Astoria HVDC
Converter Station**

31-45 20th Avenue, Astoria, Queens NY 11105
Block #850 - Lot #310 - BIN #4624437

**TURNING MOVEMENT PLAN
FDNY SEAGRAVE TRUCK
(ALTERNATIVE 2)**



DATE November 8, 2022
PROJECT NO 105121
DRAWING BY A. BUDARAPU
CHECKED BY N. PATEL
DRAWING NO
C-107.00
CADD FILE NO

**TURNING MOVEMENT PLAN -
FDNY SEAGRAVE TRUCK
(ALTERNATIVE 2)**

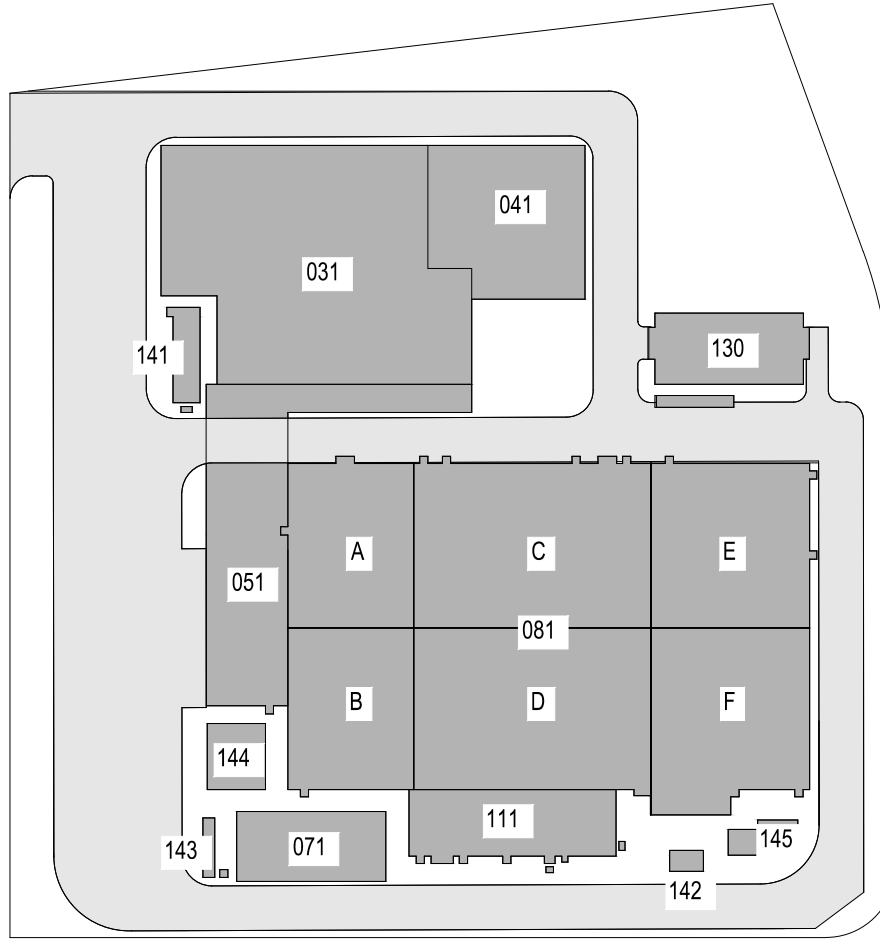
SCALE 1" = 30'

1
C-107.00

BOROUGH: QUEENS
BLOCK: 850, LOT: 300
OWNER: ASTORIA
GENERATING COMPANY, L.P.

- NOTES:
- ACCESS ROAD A1, A2, THE NORTHERN PORTION OF B1, B2, C1 AND C2 SERVE AS THE FIRE APPARATUS ACCESS ROADS.

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Woodcliff Lake, NJ 07677

Hitachi Energy
901 Main Campus Drive
Raleigh, North Carolina 27606

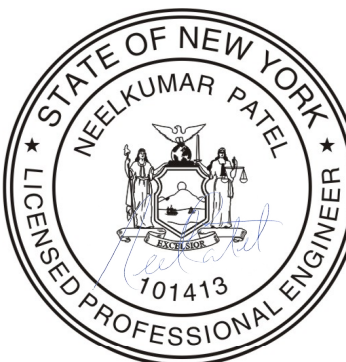
PROJECT

CHPE
Champlain Hudson
Power Express

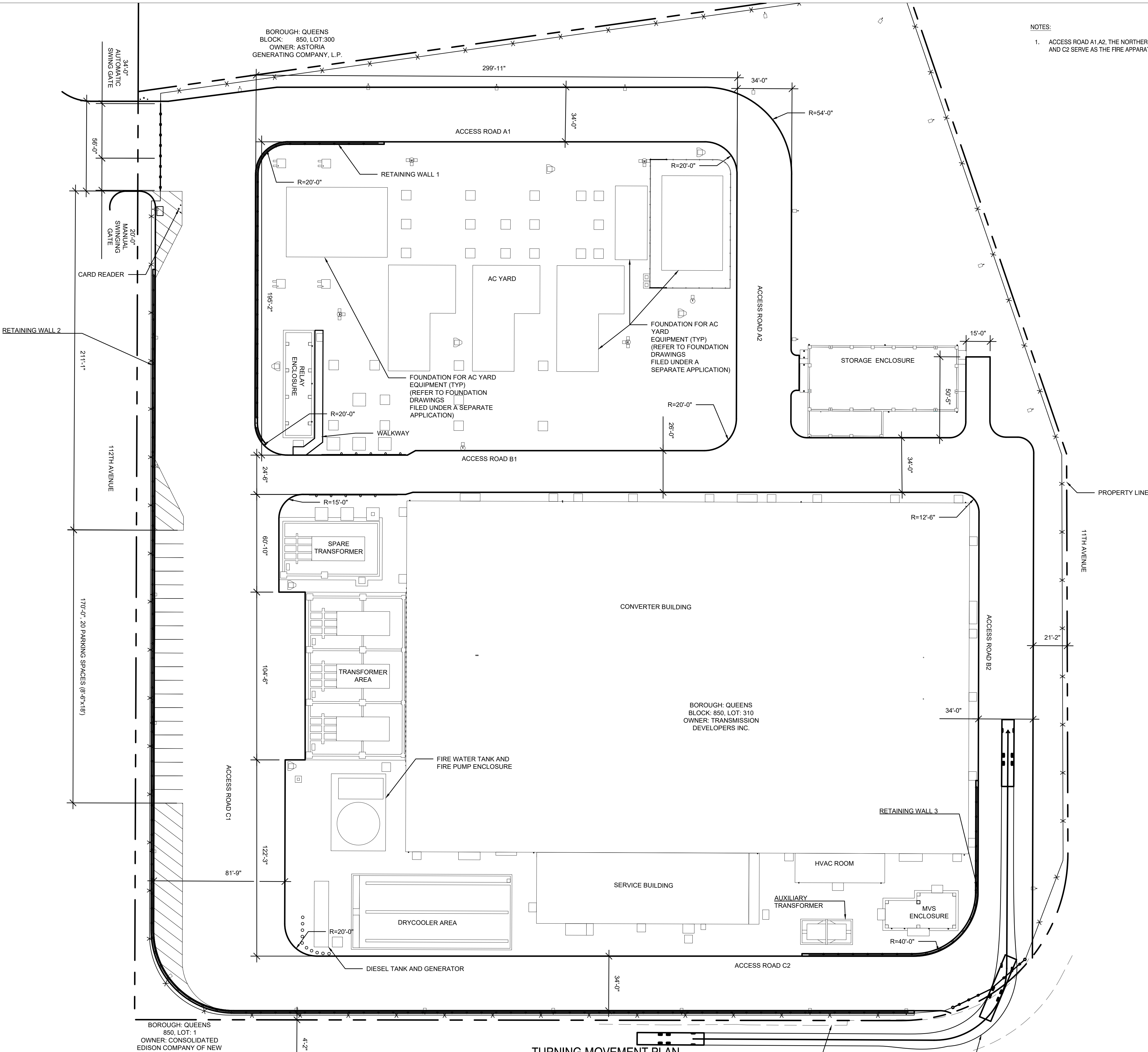
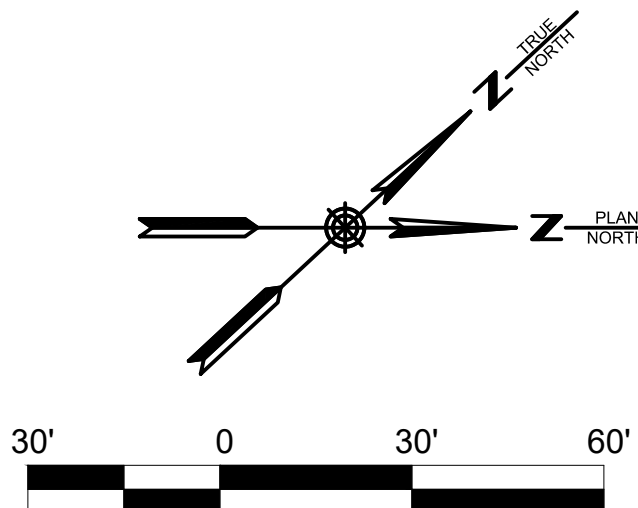
**Astoria HVDC
Converter Station**

31-45 20th Avenue, Astoria, Queens NY 11105
Block #850 - Lot #310 - BIN #4624437

**TURNING MOVEMENT PLAN
FDNY SEAGRAVE TRUCK
(ALTERNATIVE 3)**



DATE November 8, 2022
PROJECT NO 105121
DRAWING BY A. BUDARAPU
CHECKED BY N. PATEL
DRAWING NO
C-108.00
CADD FILE NO

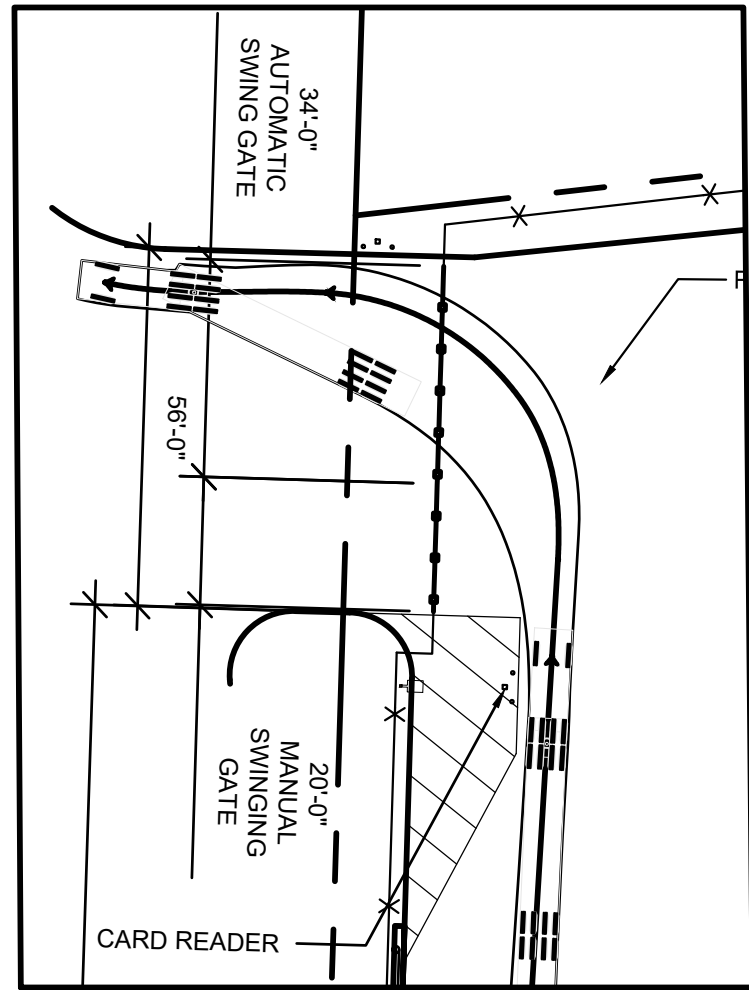
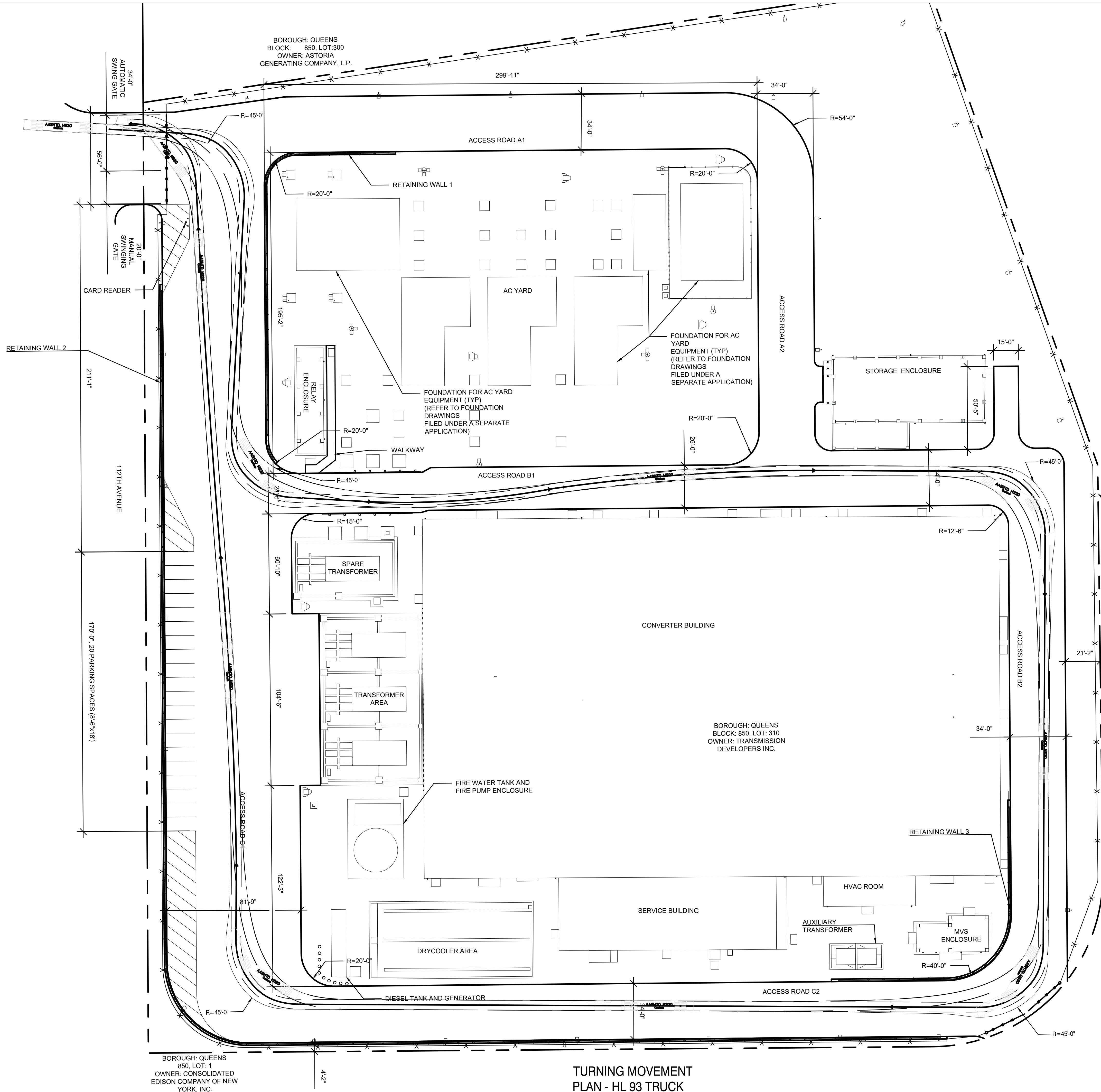


TURNING MOVEMENT PLAN -
FDNY SEAGRAVE TRUCK
(ALTERNATIVE 3)

1
C-108.00

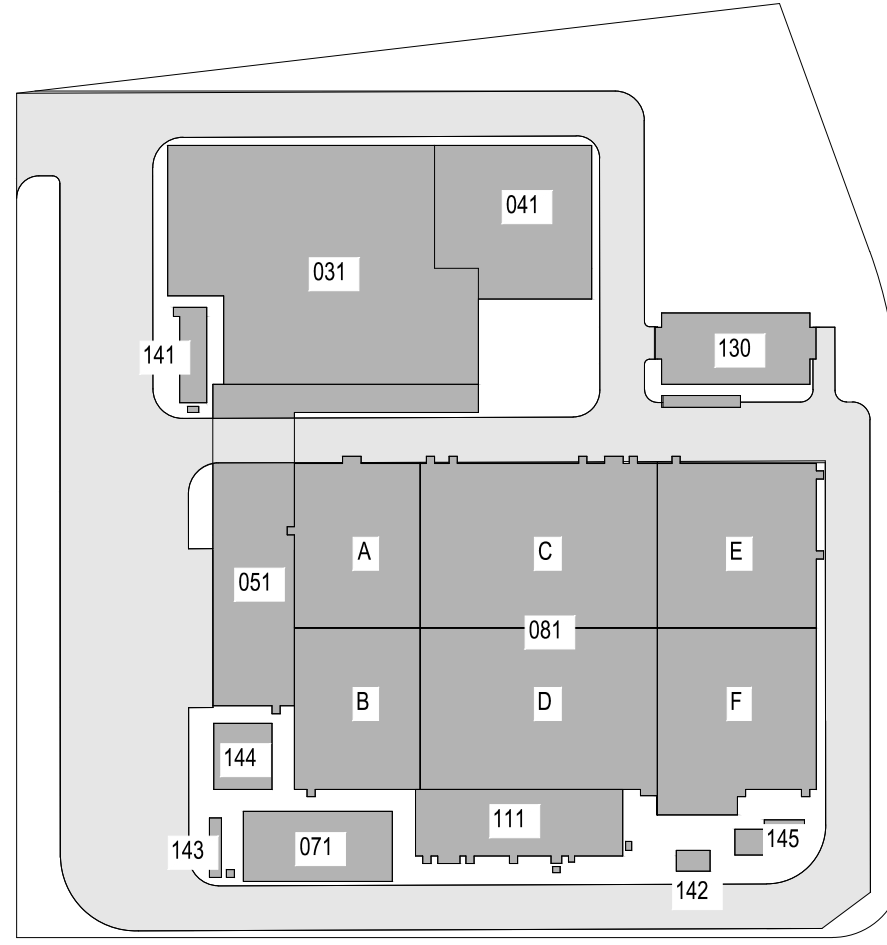
SCALE 1" = 30'

APPROXIMATE EXISTING
EDGE OF PAVEMENT



2 EXIT GATE DETAIL
C-109.00 SCALE 1" = 30'

ISSUED FOR PERMIT



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Kiewit
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Hitachi Energy
901 Main Campus Drive
Raleigh, North Carolina 27606

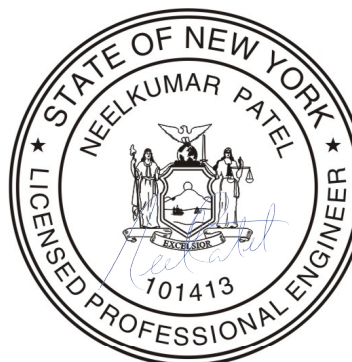
PROJECT

CHPE
Champlain Hudson
Power Express

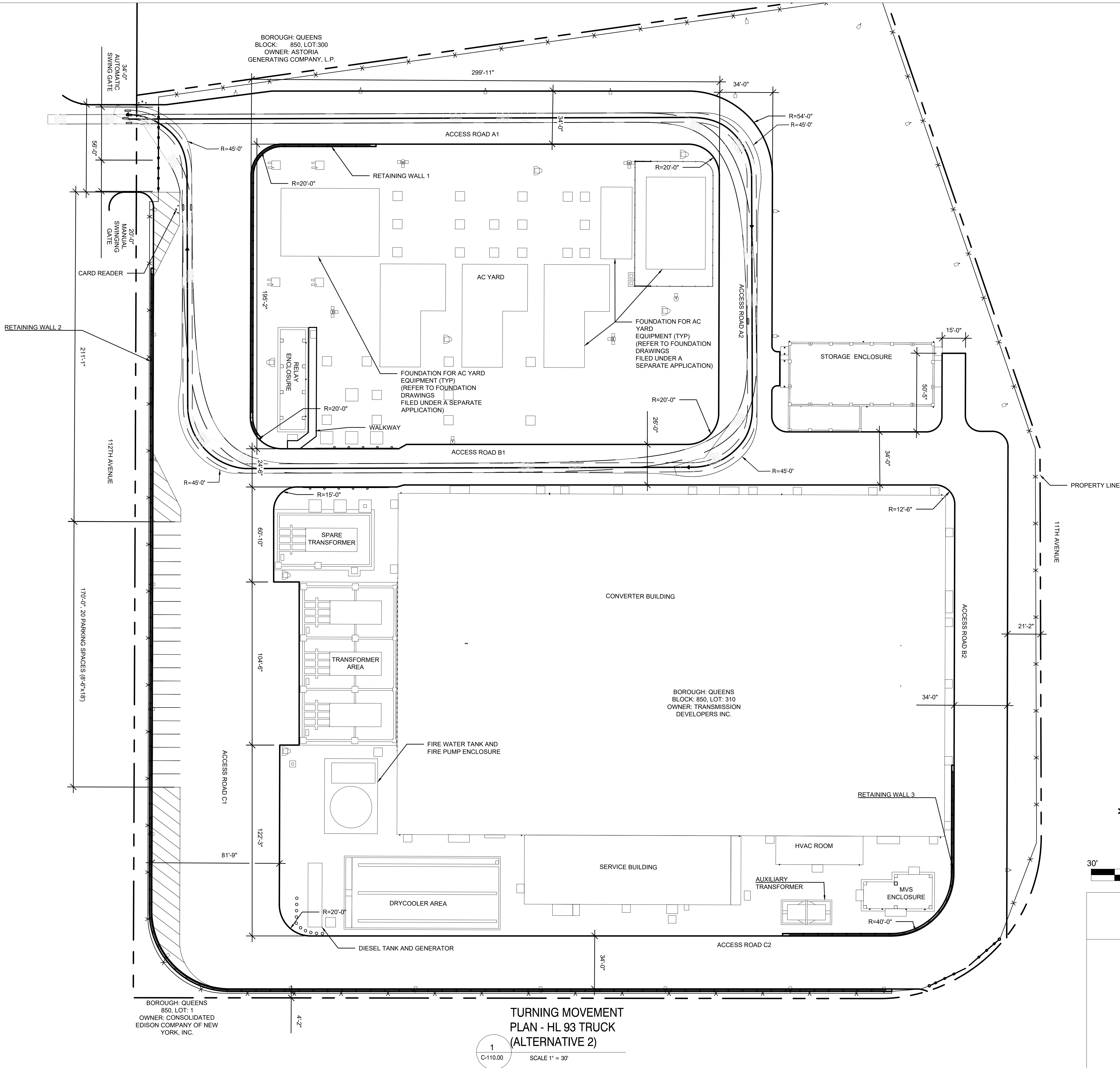
Astoria HVDC
Converter Station

31-45 20th Avenue, Astoria, Queens NY 11105
Block #850 - Lot #310 - BIN #4624437

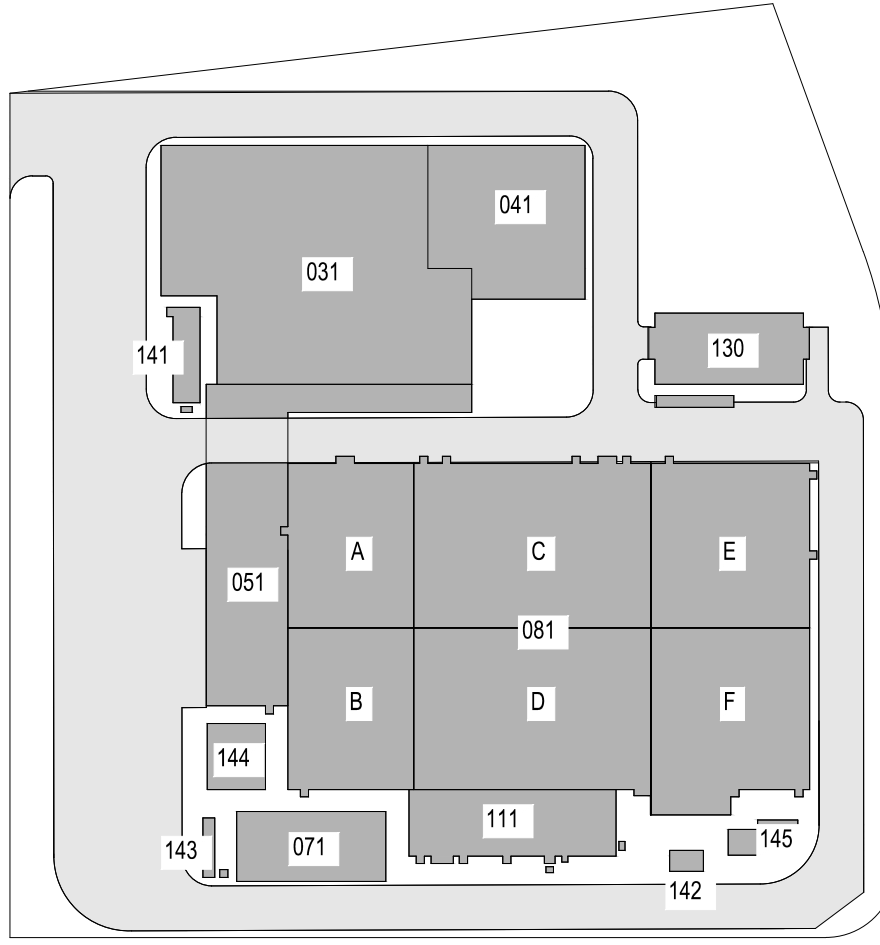
TURNING MOVEMENT PLAN
HL-93 TRUCK (ALTERNATIVE 1)



DATE November 8, 2022
PROJECT NO 105121
DRAWING BY A. BUDARAPU
CHECKED BY N. PATEL
DRAWING NO
C-109.00
CADD FILE NO



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Kiewit
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Woodcliff Lake, NJ 07677

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901 Main Campus Drive
Raleigh, North Carolina 27606

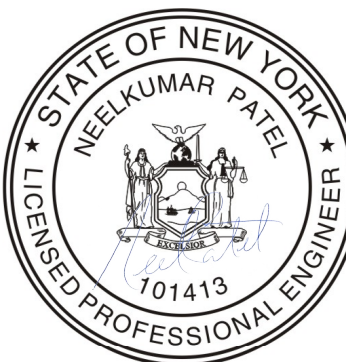
PROJECT

CHPE
Champlain Hudson
Power Express

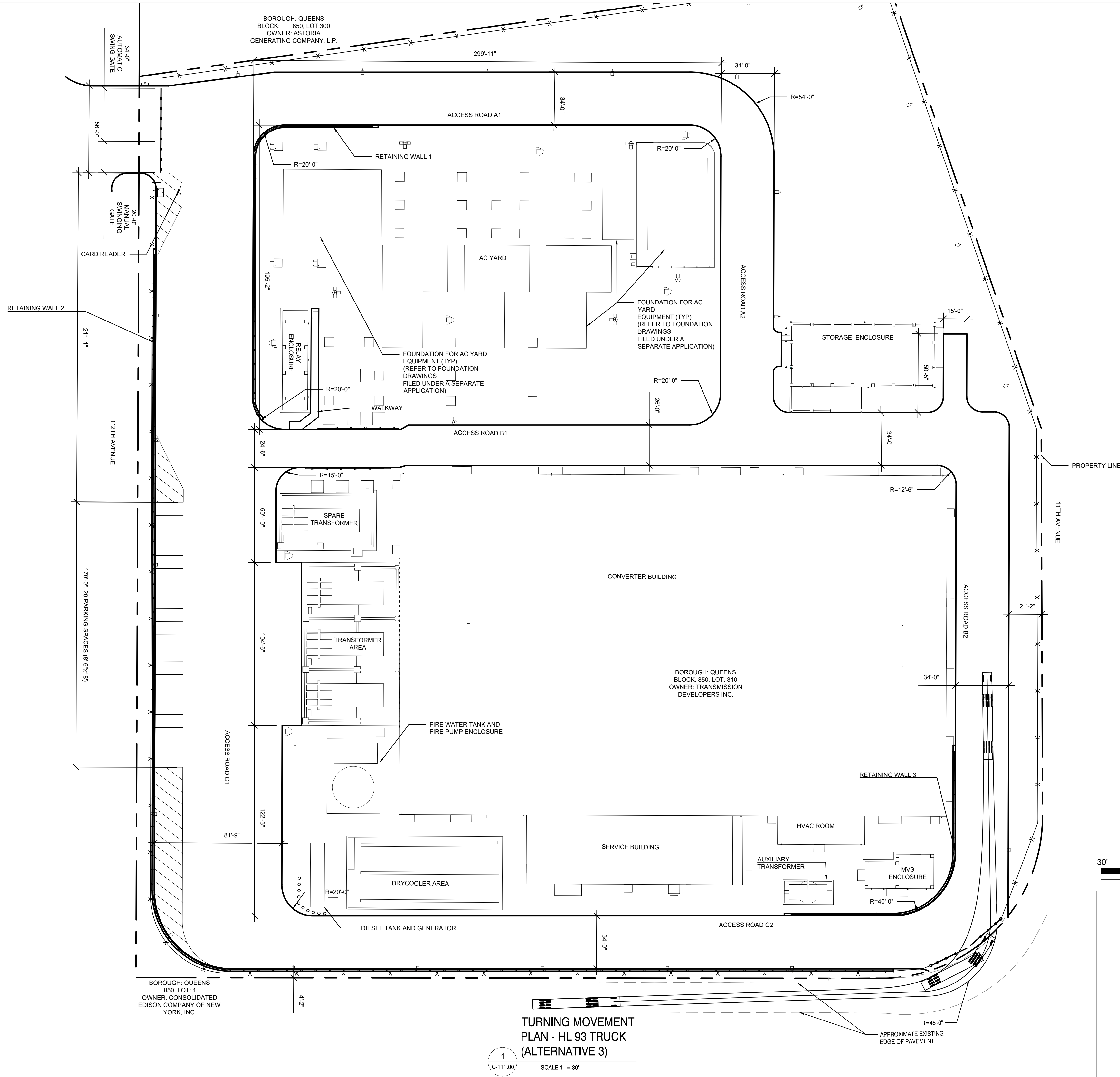
Astoria HVDC
Converter Station

31-45 20th Avenue, Astoria, Queens NY 11105
Block #850 - Lot #310 - BIN #4624437

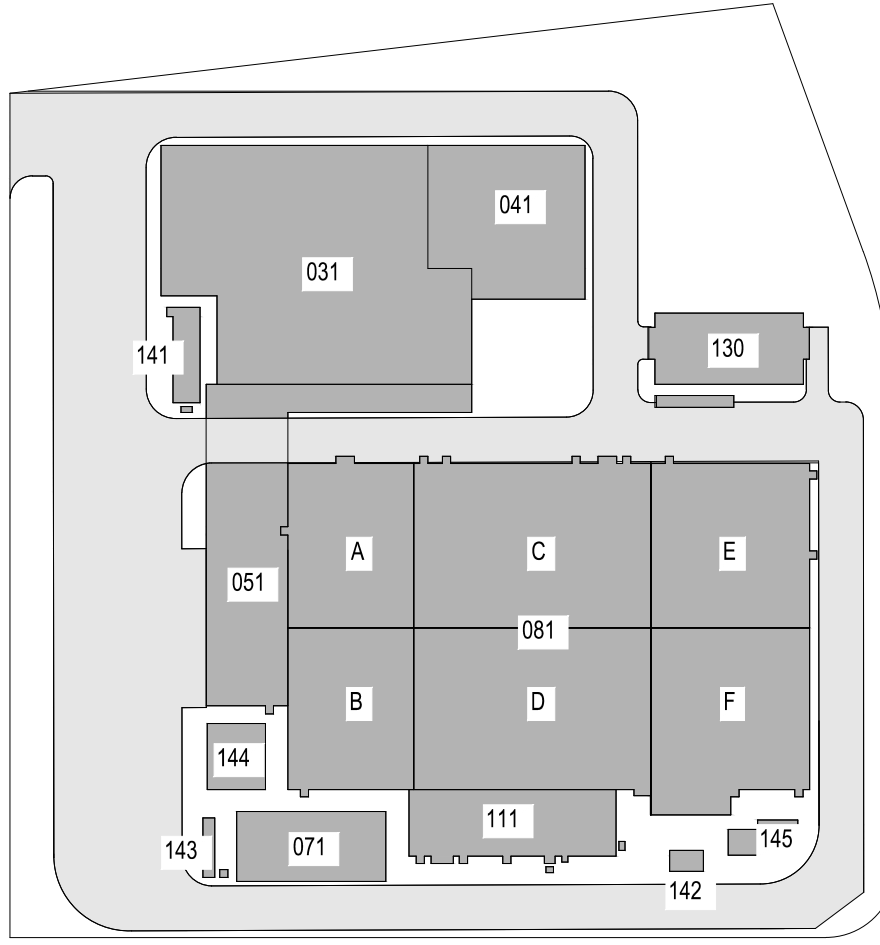
TURNING MOVEMENT PLAN
HL-93 TRUCK (ALTERNATIVE 2)



DATE November 8, 2022
PROJECT NO 105121
DRAWING BY A. BUDARAPU
CHECKED BY N. PATEL
DRAWING NO
C-110.00
CADD FILE NO



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REV	DESCRIPTION	DRW BY	CHK BY	DATE

Kiewit
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Hitachi Energy
901 Main Campus Drive
Raleigh, North Carolina 27606

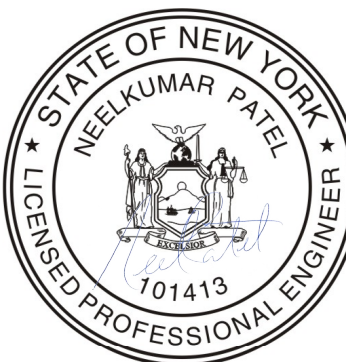
PROJECT

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Champlain Hudson
Power Express

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Converter Station

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Block #850 - Lot #310 - BIN #4624437

TURNING MOVEMENT PLAN
HL-93 TRUCK (ALTERNATIVE 3)

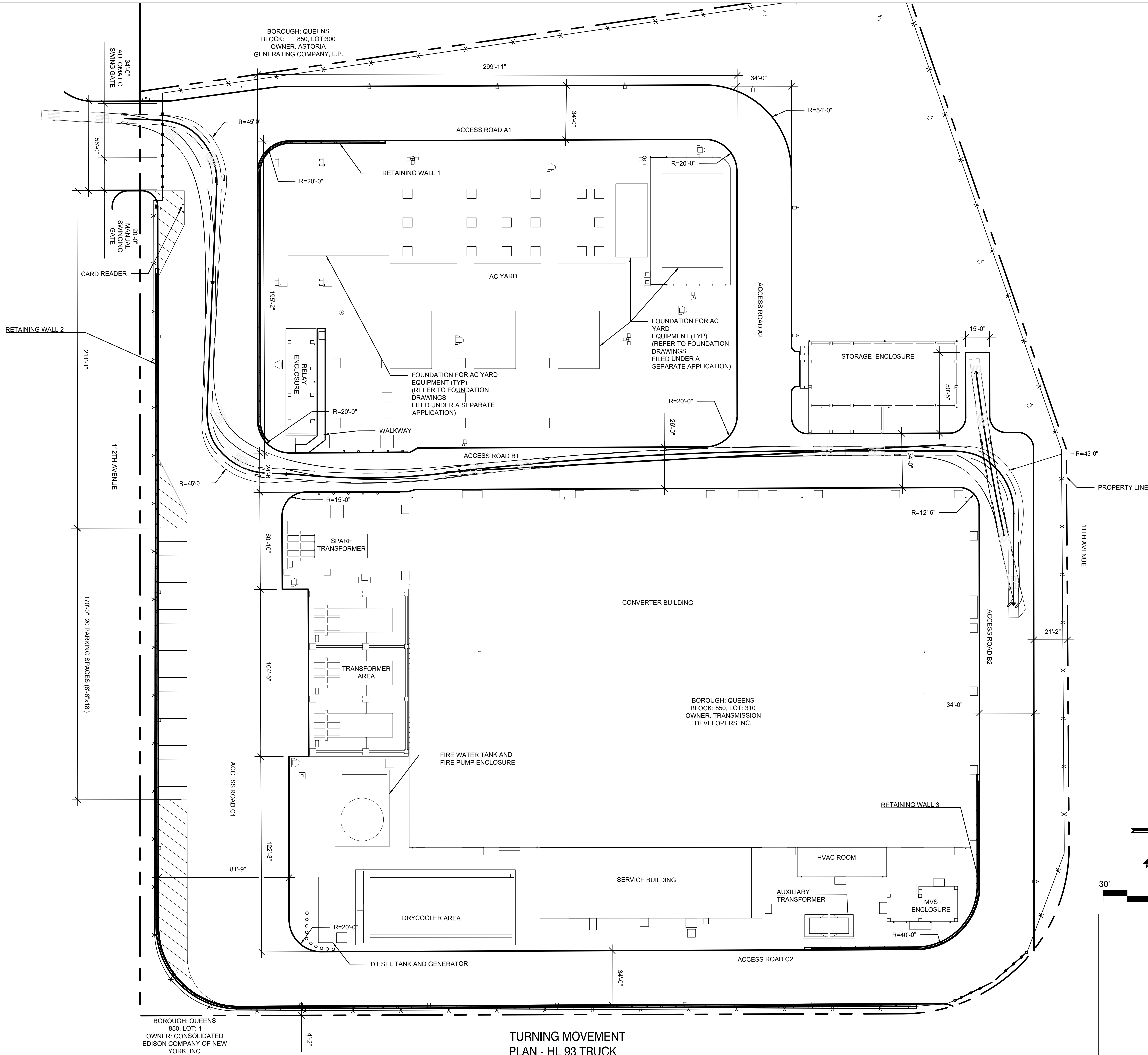


DATE November 8, 2022
PROJECT NO 105121
DRAWING BY A. BUDARAPU
CHECKED BY N. PATEL
DRAWING NO
C-111.00
CADD FILE NO

TURNING MOVEMENT
PLAN - HL 93 TRUCK
(ALTERNATIVE 3)

1
C-111.00

SCALE 1" = 30'

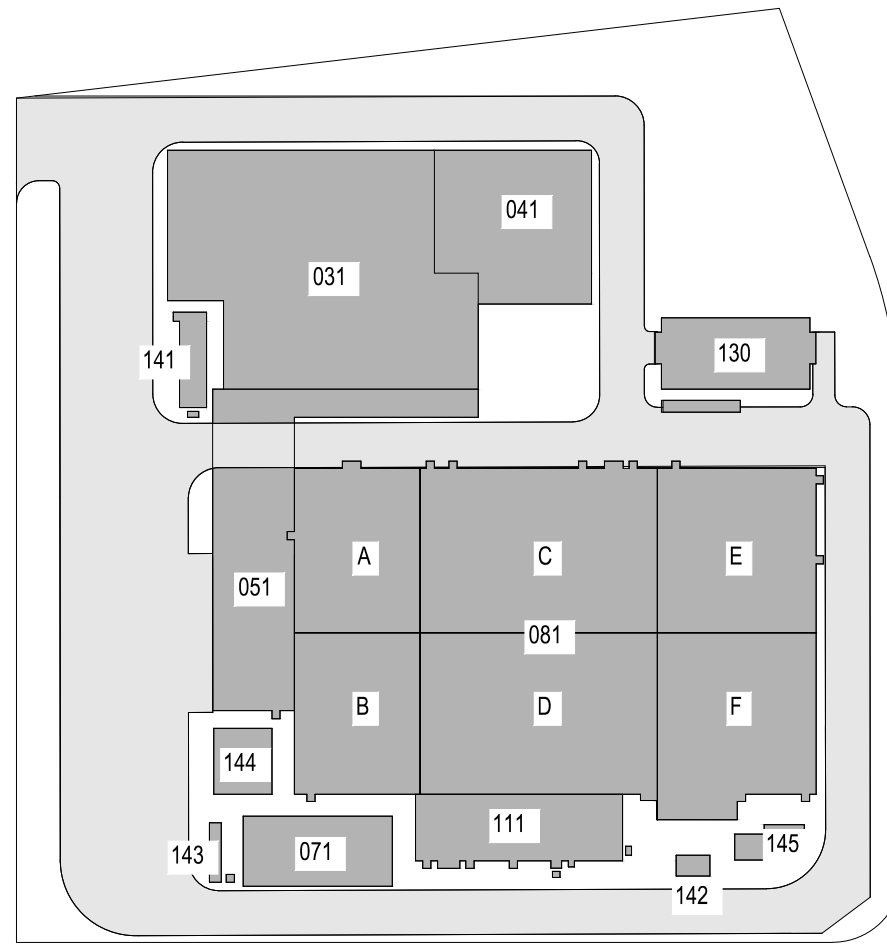


TURNING MOVEMENT
PLAN - HL 93 TRUCK
STORAGE ENCLOSURE
DRIVEWAY

1
C-112.00

SCALE 1" = 30'

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N.T.S.



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Hitachi Energy

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Raleigh, North Carolina 27606

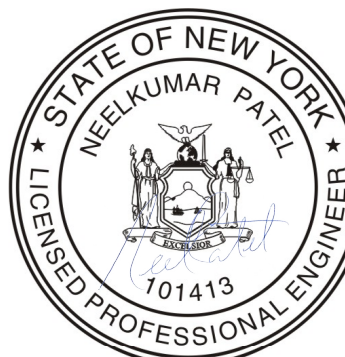
PROJECT

CHPE
Champlain Hudson
Power Express

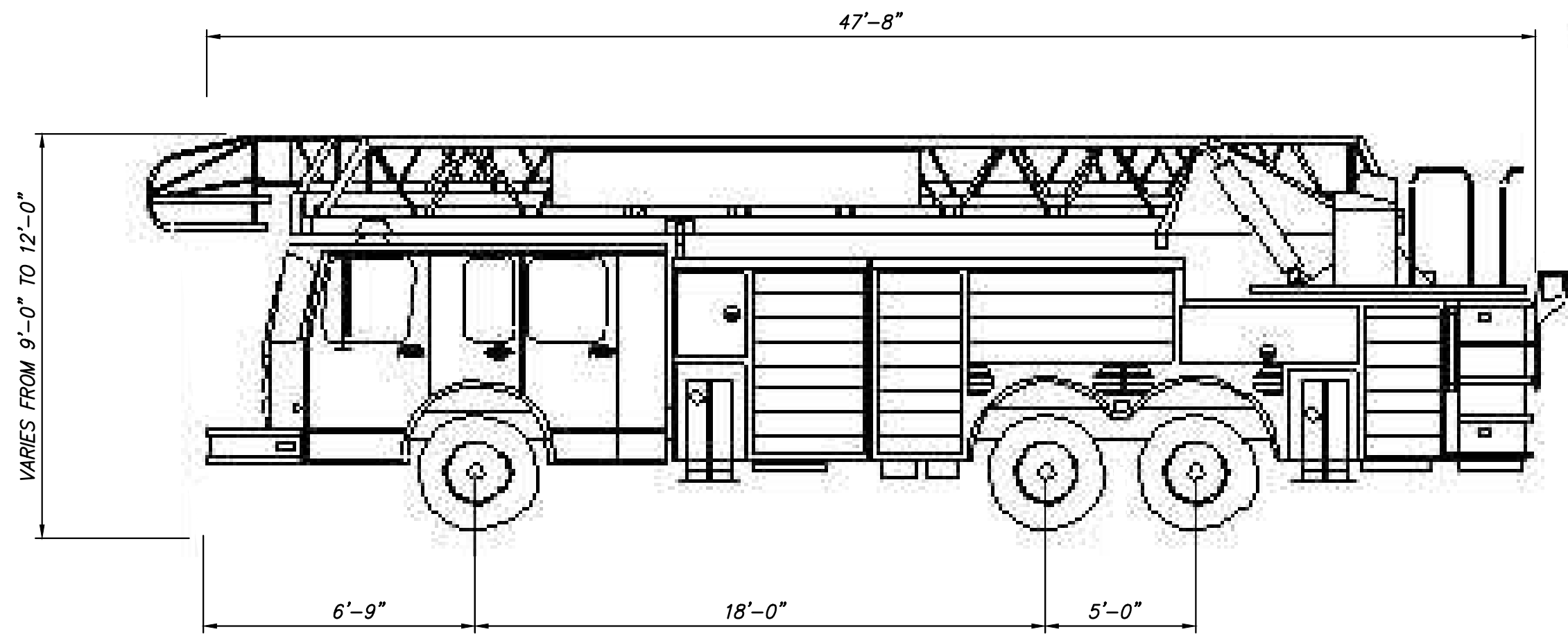
**Astoria HVDC
Converter Station**

31-45 20th Avenue, Astoria, Queens NY 11105
Block #850 - Lot #310 - BIN #4624437

**TURNING MOVEMENT PLAN
HL 93 TRUCK STORAGE
ENCLOSURE DRIVEWAY**



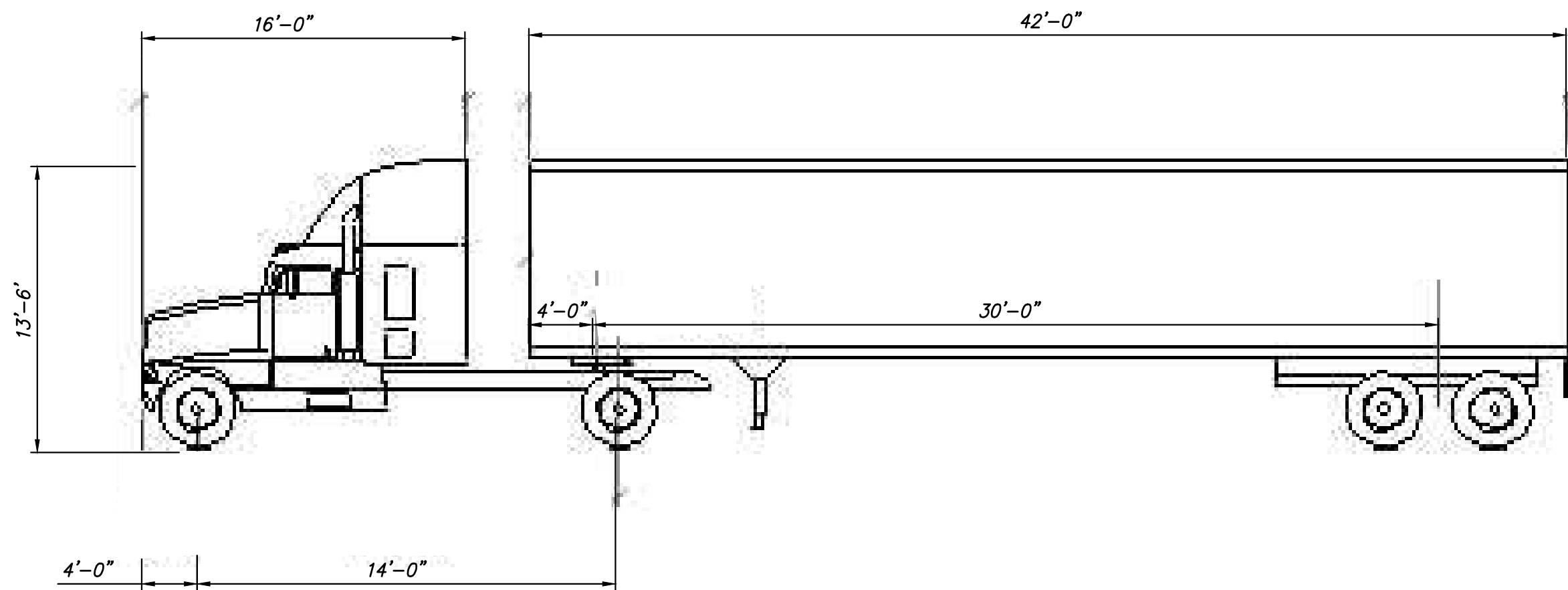
DATE November 8, 2022
PROJECT NO 105121
DRAWING BY A. BUDARAPU
CHECKED BY N. PATEL
DRAWING NO
C-112.00
CADD FILE NO



1
C-113.00

FDNY SEAGRAVE FIRE TRUCK

NOT TO SCALE



2
C-113.00

AASHTO HL-93 TRUCK

NOT TO SCALE

NOTE:
1. ALL DIMENSIONS IN FEET.

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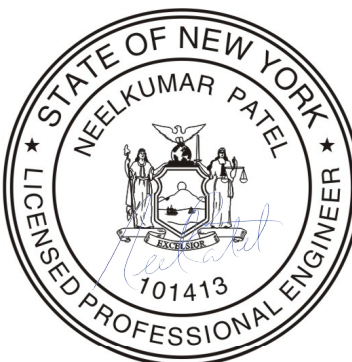
PROJECT

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Power Express

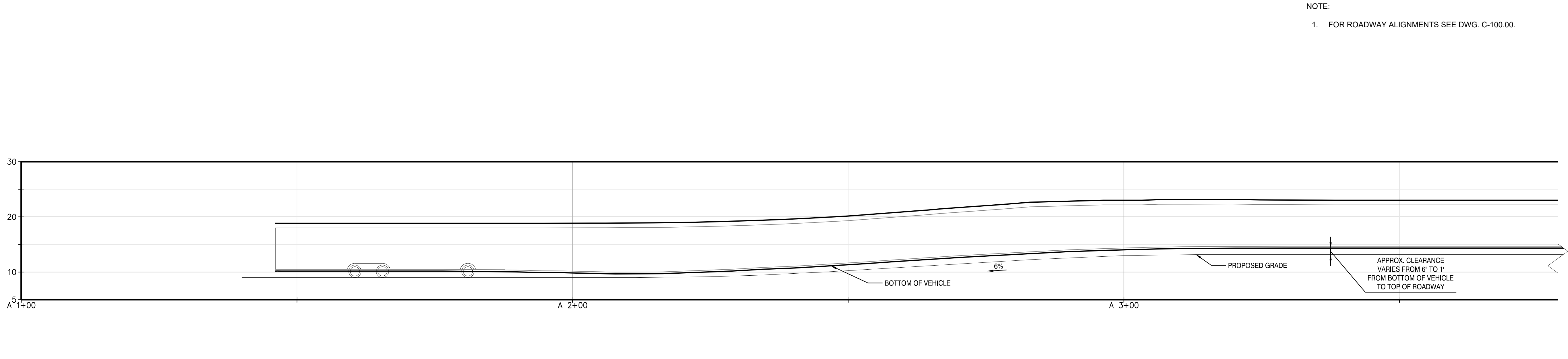
**Astoria HVDC
Converter Station**

31-45 20th Avenue, Astoria, Queens NY 11105
Block #850 - Lot #310 - BIN #4624437

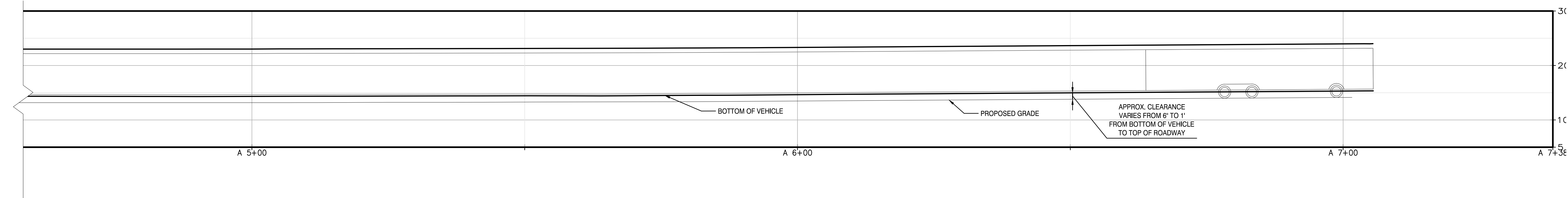
**TURNING MOVEMENT
VEHICLE DETAILS**



DATE November 8, 2022
PROJECT NO 105121
DRAWING BY A. BUDARAPU
CHECKED BY N. PATEL
DRAWING NO
C-113.00
CADD FILE NO



1 ACCESS ROAD A1 VERTICAL PROFILE - FDNY FIRE TRUCK
C-114.00 / SCALE 1" = 10'



2 ACCESS ROAD A2 VERTICAL PROFILE - FDNY FIRE TRUCK
C-114.00 / SCALE 1" = 10'

Ground Clearance (units: ft)			
Part #	Front	Wheelbase	Rear
#1	1.50	1.50	1.50



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Woodcliff Lake, NJ 07677

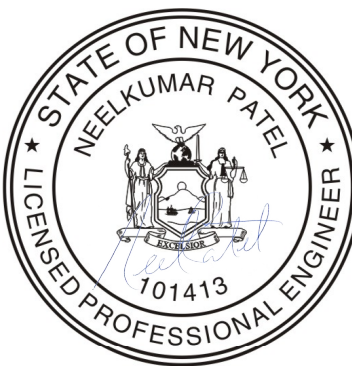
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901 Main Campus Drive
Raleigh, North Carolina 27606

PROJECT
CHPE
Champlain Hudson
Power Express

**Astoria HVDC
Converter Station**

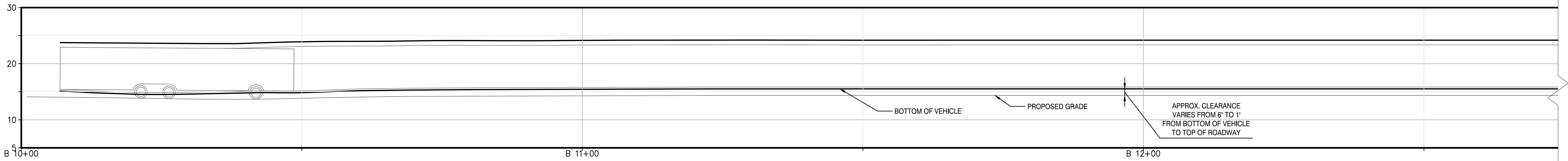
31-45 20th Avenue, Astoria, Queens NY 11105
Block #850 - Lot #310 - BIN #4624437

TURNING MOVEMENT
VERTICAL PROFILE
FDNY SEAGRAVE TRUCK

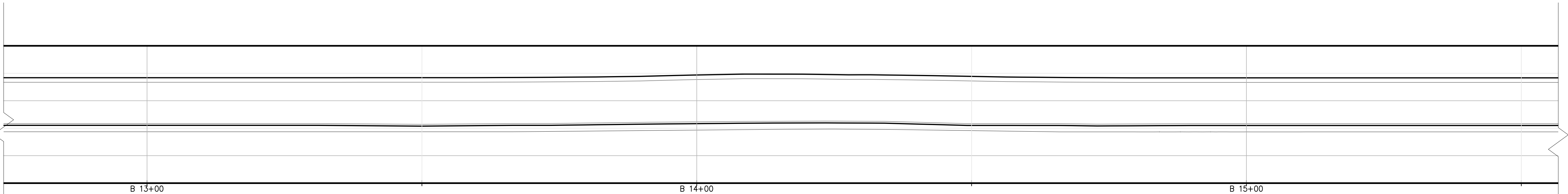


DATE NOVEMBER 8, 2022
PROJECT NO 105121
DRAWING BY A.BUDARAPU
CHECKED BY N.PATEL
DRAWING NO
C-114.00
CADD FILE NO

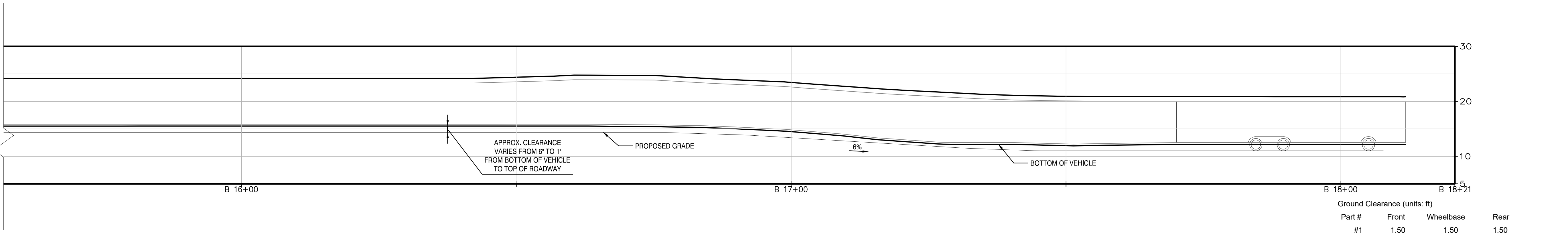
NOTE:
1. FOR ROADWAY ALIGNMENTS SEE DWG. C-100.00.



1 ACCESS ROAD B1 VERTICAL PROFILE - FDNY FIRE TRUCK
C-115.00 / SCALE 1" = 10'



2 ACCESS ROAD B1/B2 VERTICAL PROFILE - FDNY FIRE TRUCK
C-115.00 / SCALE 1" = 10'



3 ACCESS ROAD B2 VERTICAL PROFILE - FDNY FIRE TRUCK
C-115.00 / SCALE 1" = 10'



ISSUED FOR PERMIT

Engineering and Land Surveying, P.C.
370 7th Avenue
SUITE 1604
New York, NY 10001

SOWINSKI SULLIVAN
ARCHITECTURE+ENGINEERING
25 Mohawk Avenue
Sparta, NJ 07871

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REV	DESCRIPTION	DRW BY	CHK BY	DATE
B	FINAL SUBMISSION	AB	NP	11/8/22
A	INTERIM SUBMISSION	AB	NP	08/29/22

Kiewit
470 Chestnut Ridge Rd # 2,
Woodcliff Lake, NJ 07677

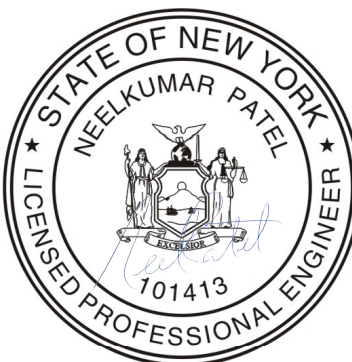
Hitachi Energy
901 Main Campus Drive
Raleigh, North Carolina 27606

PROJECT
CHPE
Champlain Hudson
Power Express

**Astoria HVDC
Converter Station**

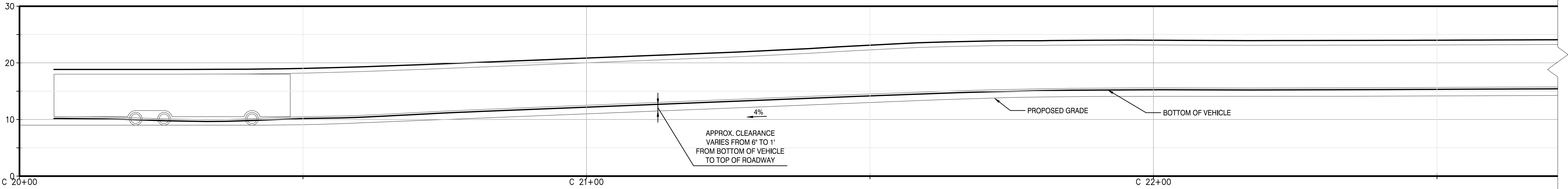
31-45 20th Avenue, Astoria, Queens NY 11105
Block #850 - Lot #310 - BIN #4624437

TURNING MOVEMENT
VERTICAL PROFILE
FDNY SEAGRAVE TRUCK

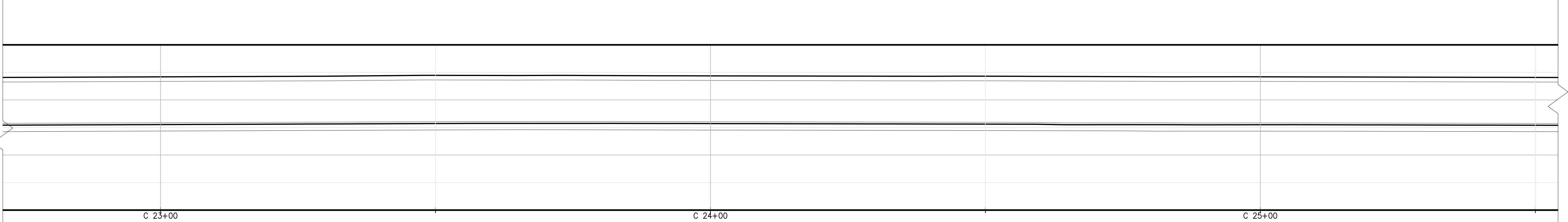


DATE: NOVEMBER 8, 2022
PROJECT NO: 105121
DRAWING BY: A. BUDARAPU
CHECKED BY: N. PATEL
DRAWING NO: **C-115.00**
CADD FILE NO:

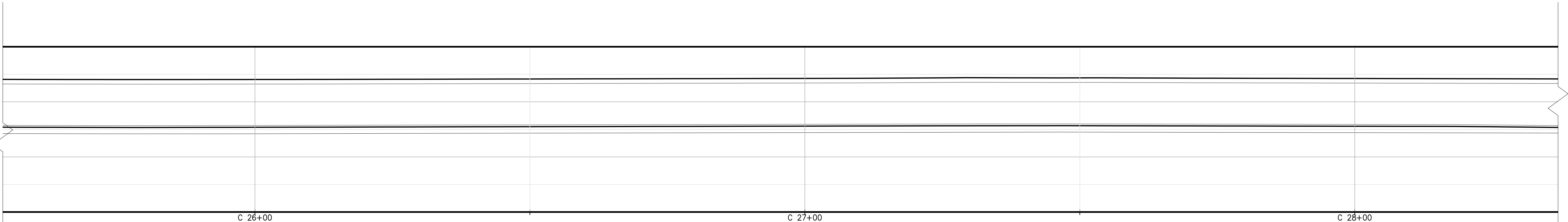
NOTE:
1. FOR ROADWAY ALIGNMENTS SEE DWG. C-100.00.



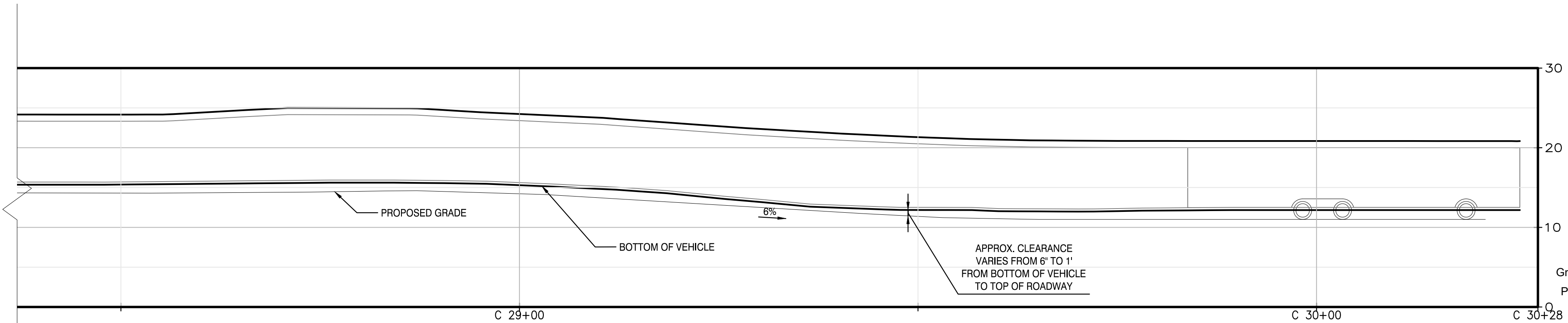
1 ACCESS ROAD C1 VERTICAL PROFILE - FDNY FIRE TRUCK
C-116.00 SCALE 1" = 10'



2 ACCESS ROAD C1 VERTICAL PROFILE - FDNY FIRE TRUCK
C-116.00 SCALE 1" = 10'



3 ACCESS ROAD C2 VERTICAL PROFILE - FDNY FIRE TRUCK
C-116.00 SCALE 1" = 10'



4 ACCESS ROAD C2 VERTICAL PROFILE - FDNY FIRE TRUCK
C-116.00 SCALE 1" = 10'

Ground Clearance (units: ft)			
Part #	Front	Wheelbase	Rear
#1	1.50	1.50	1.50



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A	INTERIM SUBMISSION	AB	NP	08/29/22

Kiewit
470 Chestnut Ridge Rd # 2,
Woodcliff Lake, NJ 07677

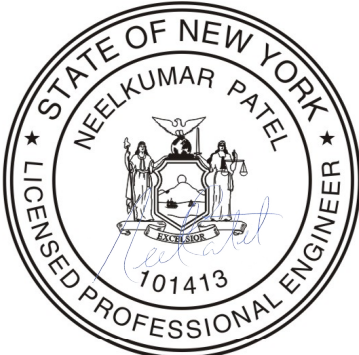
Hitachi Energy
901 Main Campus Drive
Raleigh, North Carolina 27606

PROJECT
CHPE
Champlain Hudson
Power Express

Astoria HVDC Converter Station

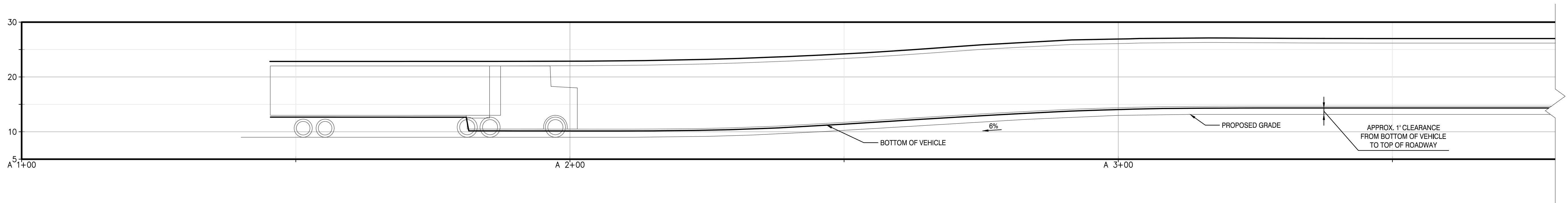
31-45 20th Avenue, Astoria, Queens NY 11105
Block #850 - Lot #310 - BIN #4624437

TURNING MOVEMENT
VERTICAL PROFILE
FDNY SEAGRAVE TRUCK

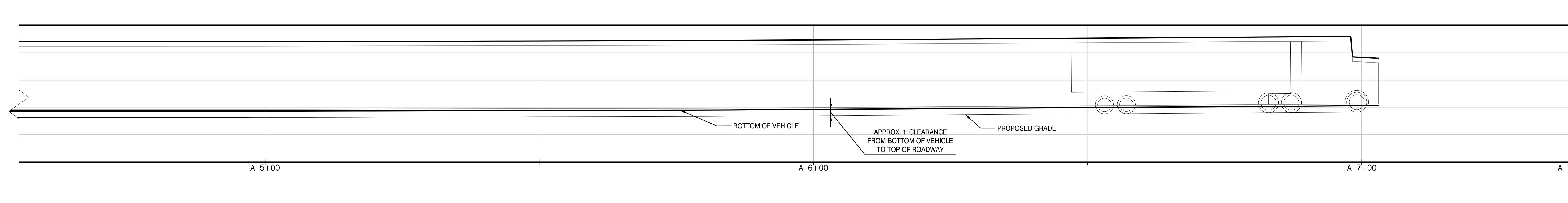


DATE: NOVEMBER 8, 2022
PROJECT NO: 105121
DRAWING BY: A.BUDARAPU
CHECKED BY: N.PATEL
DRAWING NO: **C-116.00**
CADD FILE NO:

NOTE:
1. FOR ROADWAY ALIGNMENTS SEE DWG. C-100.00.



1 ACCESS ROAD A1 VERTICAL PROFILE - HL 93 TRUCK
C-117.00 / SCALE 1" = 10'



2 ACCESS ROAD A2 VERTICAL PROFILE - HL 93 TRUCK
C-117.00 / SCALE 1" = 10'

Ground Clearance (units: ft)			
Part #	Front	Wheelbase	Rear
#1	1.50	1.50	0.75
#2	0.75	4.00	4.00



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Kiewit
470 Chestnut Ridge Rd # 2,
Woodcliff Lake, NJ 07677

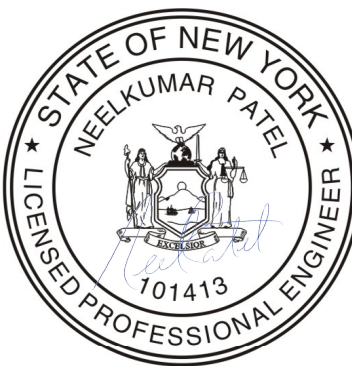
Hitachi Energy
901 Main Campus Drive
Raleigh, North Carolina 27606

PROJECT
CHPE
Champlain Hudson
Power Express

**Astoria HVDC
Converter Station**

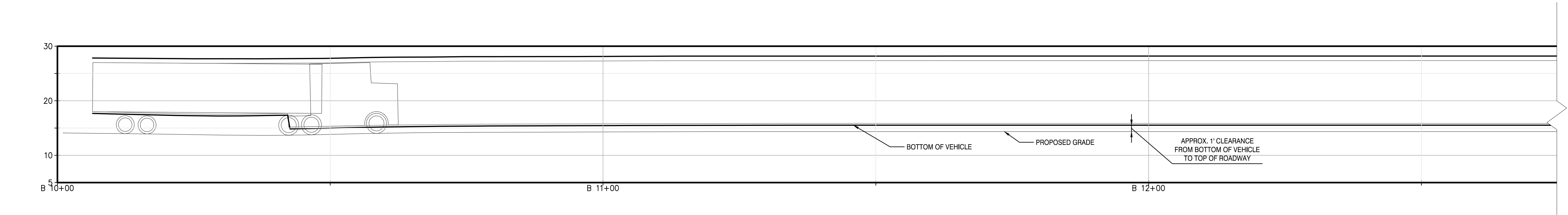
31-45 20th Avenue, Astoria, Queens NY 11105
Block #850 - Lot #310 - BIN #4624437

TURNING MOVEMENT
VERTICAL PROFILE
HL-93 TRUCK

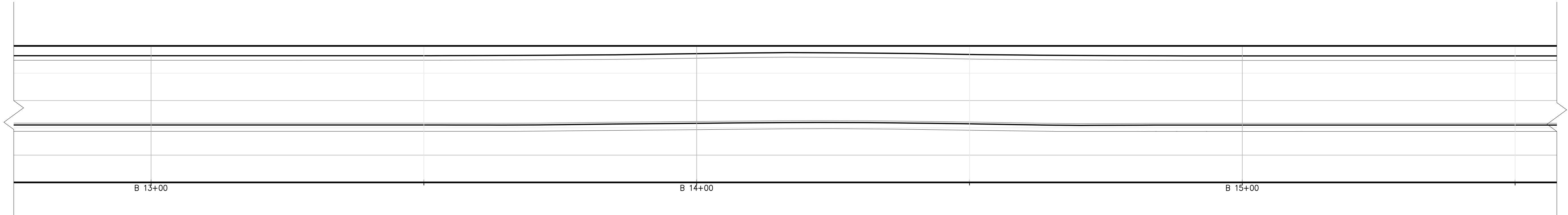


DATE NOVEMBER 8, 2022
PROJECT NO 105121
DRAWING BY A.BUDARAPU
CHECKED BY N.PATEL
DRAWING NO
C-117.00
CADD FILE NO

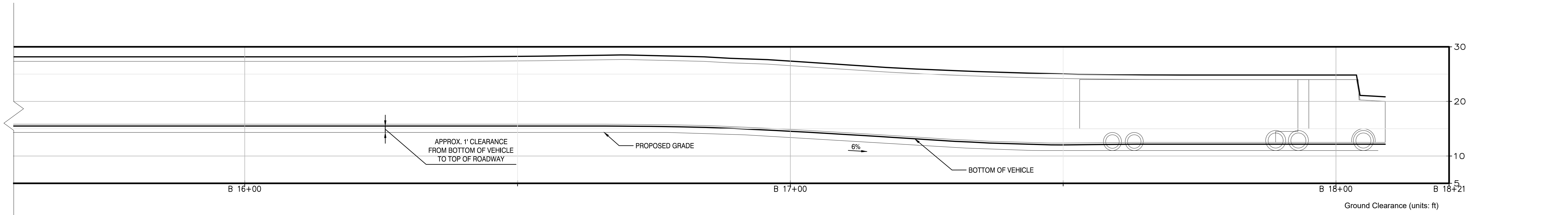
NOTE:
1. FOR ROADWAY ALIGNMENTS SEE DWG. C-100.00.



1 ACCESS ROAD B1 VERTICAL PROFILE - HL 93 TRUCK
C-118.00 / SCALE 1" = 10'



2 ACCESS ROAD B1/B2 VERTICAL PROFILE - HL 93 TRUCK
C-118.00 / SCALE 1" = 10'



3 ACCESS ROAD B2 VERTICAL PROFILE - HL 93 TRUCK
C-118.00 / SCALE 1" = 10'

Ground Clearance (units: ft)			
Part #	Front	Wheelbase	Rear
#1	1.50	1.50	0.75
#2	0.75	4.00	4.00



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Kiewit
470 Chestnut Ridge Rd # 2,
Woodcliff Lake, NJ 07677

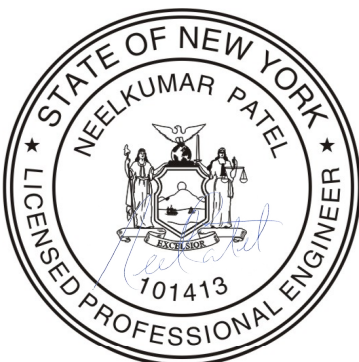
Hitachi Energy
901 Main Campus Drive
Raleigh, North Carolina 27606

PROJECT
CHPE
Champlain Hudson
Power Express

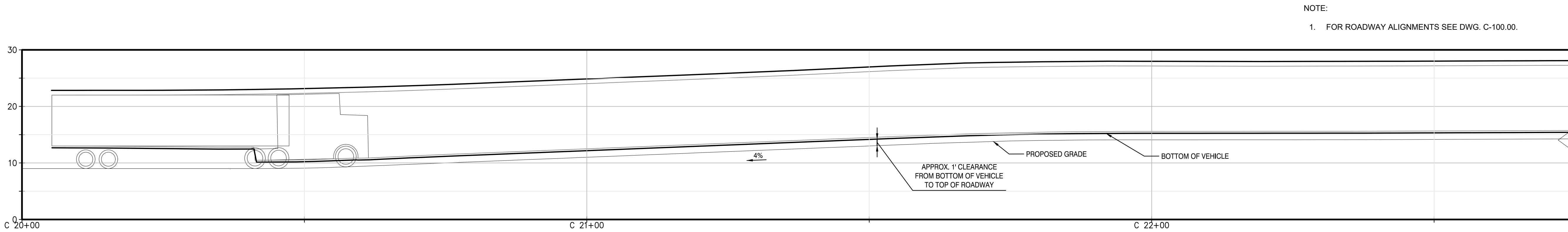
**Astoria HVDC
Converter Station**

31-45 20th Avenue, Astoria, Queens NY 11105
Block #850 - Lot #310 - BIN #4624437

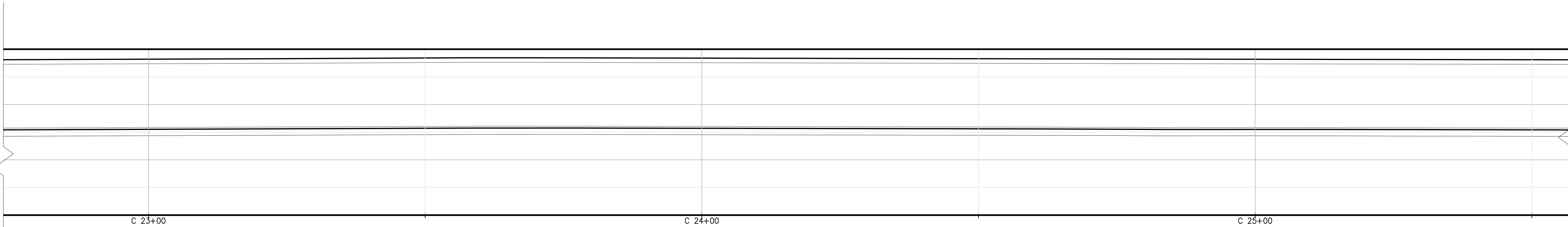
TURNING MOVEMENT
VERTICAL PROFILE
HL-93 TRUCK



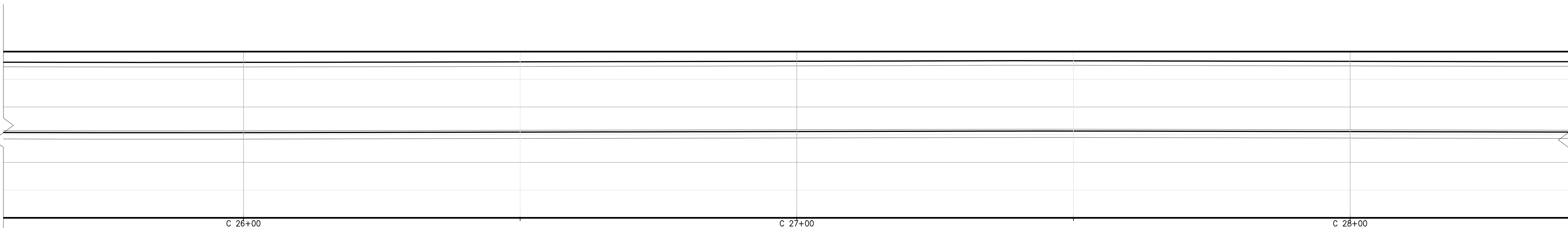
DATE: NOVEMBER 8, 2022
PROJECT NO: 105121
DRAWING BY: A.BUDARAPU
CHECKED BY: N.PATEL
DRAWING NO:
C-118.00
CADD FILE NO:



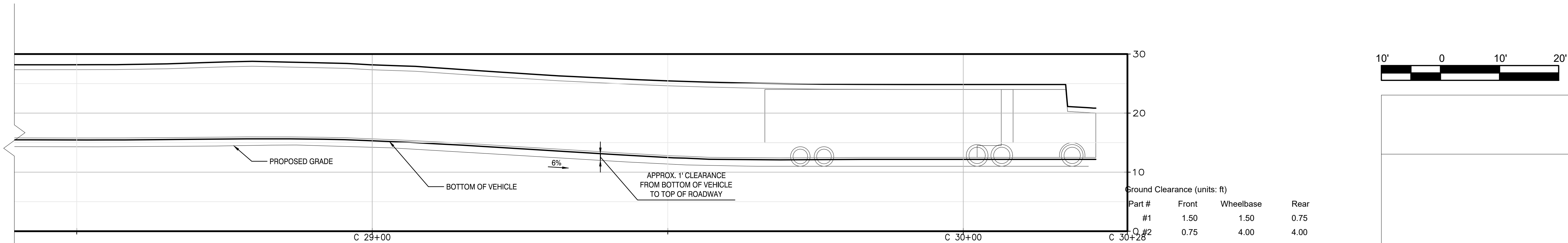
1 ACCESS ROAD C1 VERTICAL PROFILE - HL 93 TRUCK
C-119.00 / SCALE 1" = 10'



2 ACCESS ROAD C1 VERTICAL PROFILE - HL 93 TRUCK
C-119.00 / SCALE 1" = 10'



3 ACCESS ROAD C2 VERTICAL PROFILE - HL 93 TRUCK
C-119.00 / SCALE 1" = 10'



4 ACCESS ROAD C2 VERTICAL PROFILE - HL 93 TRUCK
C-119.00 / SCALE 1" = 10'

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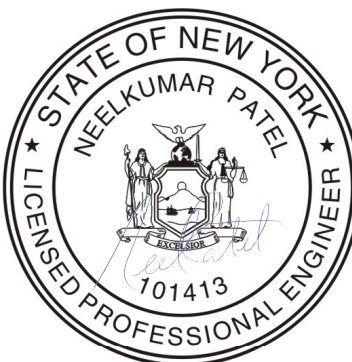
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PROJECT
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TURNING MOVEMENT
VERTICAL PROFILE
HL-93 TRUCK



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DRAWING NO
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