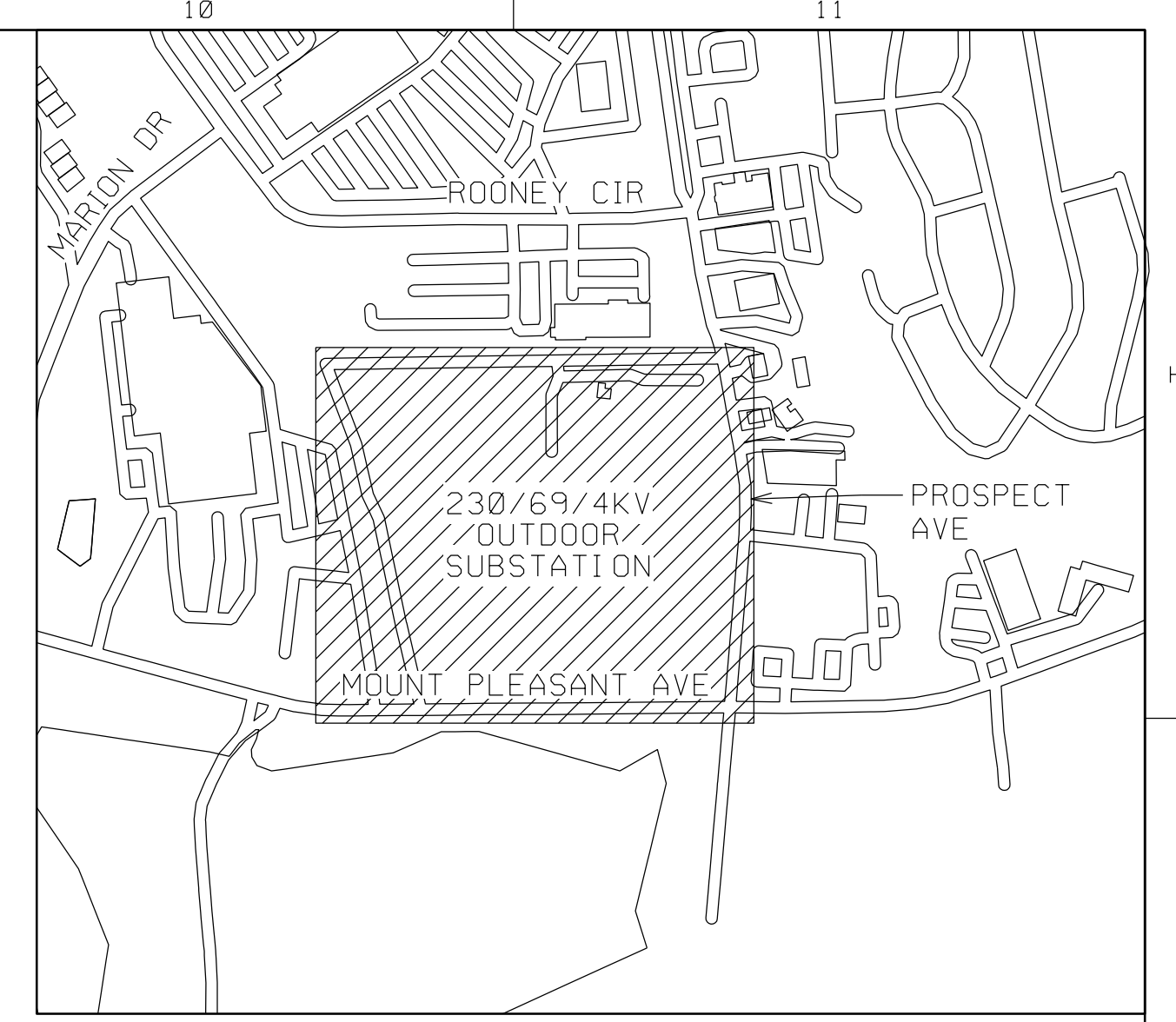
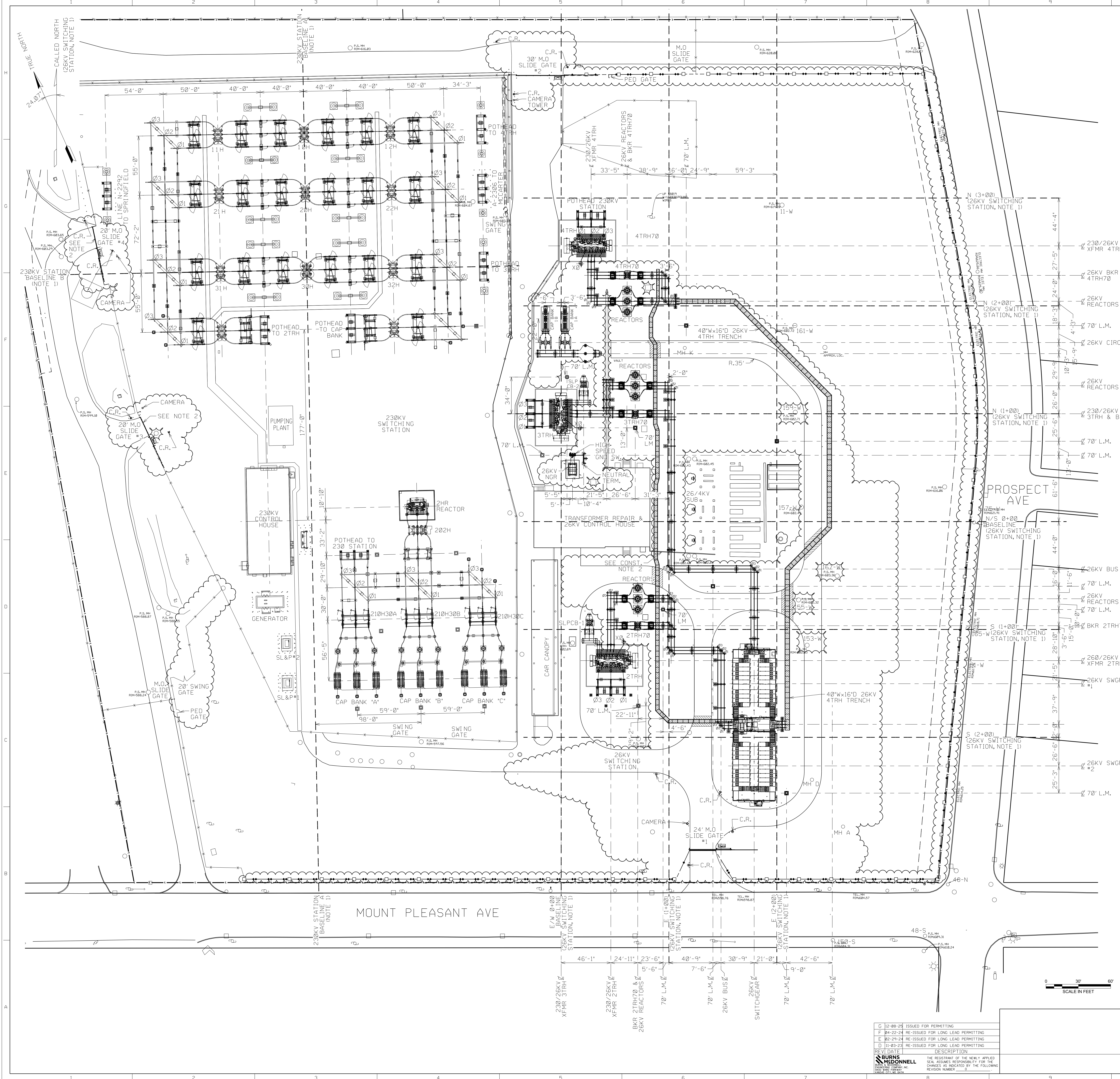




LOCATION MAP
(NOT TO SCALE)

CONSTRUCTION NOTES (REV0):

- CHANGES TO EXISTING STATION ARE DESIGNATED WITH CLOUDS.
- CONTRACTOR TO REMOVE EXISTING CURB IN THIS AREA FOR INSTALLATION OF NEW CABLE TRENCH. CONTRACTOR TO MARK ANY REMOVALS ON AS-BUILT FIELD-MARKED PRINTS.

LEGEND:

- PROPERTY LINE
- BASILINE
- 7' CHAINLINK FENCE W/ TOP 1' ANGLED OUTWARD
- AMERISTAR FENCE W/COLUMNS
- AMERISTAR FENCE W/ INSULATED FOOTING & COLUMNS
- ISOLATION PANEL
- BOLLARD
- CHAINLINK FENCE
- LIGHTNING MAST (L.M.)
- CABLE TRENCH
- CARD READER

NOTES:

- 230KV STATION AND 26KV STATION HAVE SEPARATE BASELINE SYSTEMS, CALLED NORTH ARROW ANGLE SHOWN ON THIS DRAWING APPLIES TO 26KV STATION.
- MOTORIZED SLIDE GATE IN 230KV YARD TO BE 8' CHAINLINK FENCE, WITH TOP 1' ANGLES OUTWARD.

REFERENCE DRAWINGS:

1. 26.4KV OUTDOOR SUBSTATION BUS PLAN SH. 1	DWG.#804332-A
2. 26.4KV OUTDOOR SUBSTATION BUS PLAN SH. 2	DWG.#804333-A
3. 26.4KV OUTDOOR SUBSTATION GROUNDING PLAN SH. 1	DWG.#804340-A
4. 26.4KV OUTDOOR SUBSTATION GROUNDING PLAN SH. 2	DWG.#804341-A
5. 26.4KV OUTDOOR SUBSTATION GROUNDING PLAN SH. 3	DWG.#804342-A
6. 26.4KV OUTDOOR SUBSTATION CONDUIT PLAN SH. 1	DWG.#804343-A
7. 26.4KV OUTDOOR SUBSTATION CONDUIT PLAN SH. 2	DWG.#804344-A
8. 26.4KV OUTDOOR SUBSTATION LIGHTING CONDUIT PLAN SH. 1	DWG.#804346-A
9. 26.4KV OUTDOOR SUBSTATION LIGHTING CONDUIT PLAN SH. 2	DWG.#804347-A
10. GATE PLAN AND DETAILS SH. 1	DWG.#804350-A
11. GATE PLAN AND DETAILS SH. 2	DWG.#804351-A
12. 230/26KV ONE LINE DIAGRAM	DWG.#22757-A

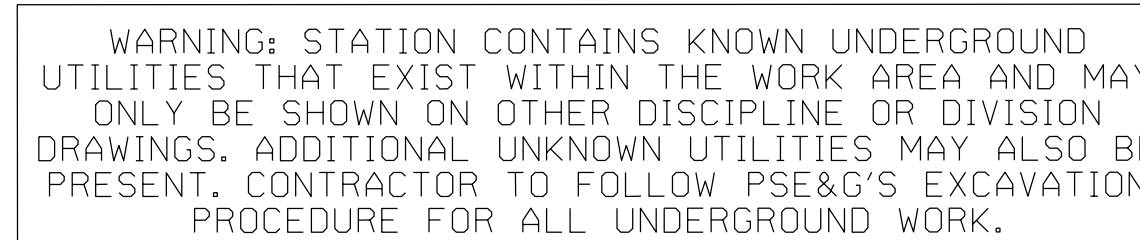
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REVISION						
WEST ORANGE SWITCHING STATION 230/26.4KV OUTDOOR SUBSTATION ULTIMATE KEY PLAN						
ARRANGEMENT			ELECTRICAL			
PUBLIC SERVICE ELECTRIC AND GAS COMPANY ELECTRIC DELIVERY COMPANY-ASSET RELIABILITY, NEWARK, N.J.						
DRAWN - J. HARVATH - CHECKED - A. LITERSKI - SCALE 1"=30'-0"						
DATE - 07/19/2022 - EXAMINED - E. ARGUETA						
WBS - C82321J-B-1-2-2 - APPROVED - S. KADAKIA						
789277 A -0Per						

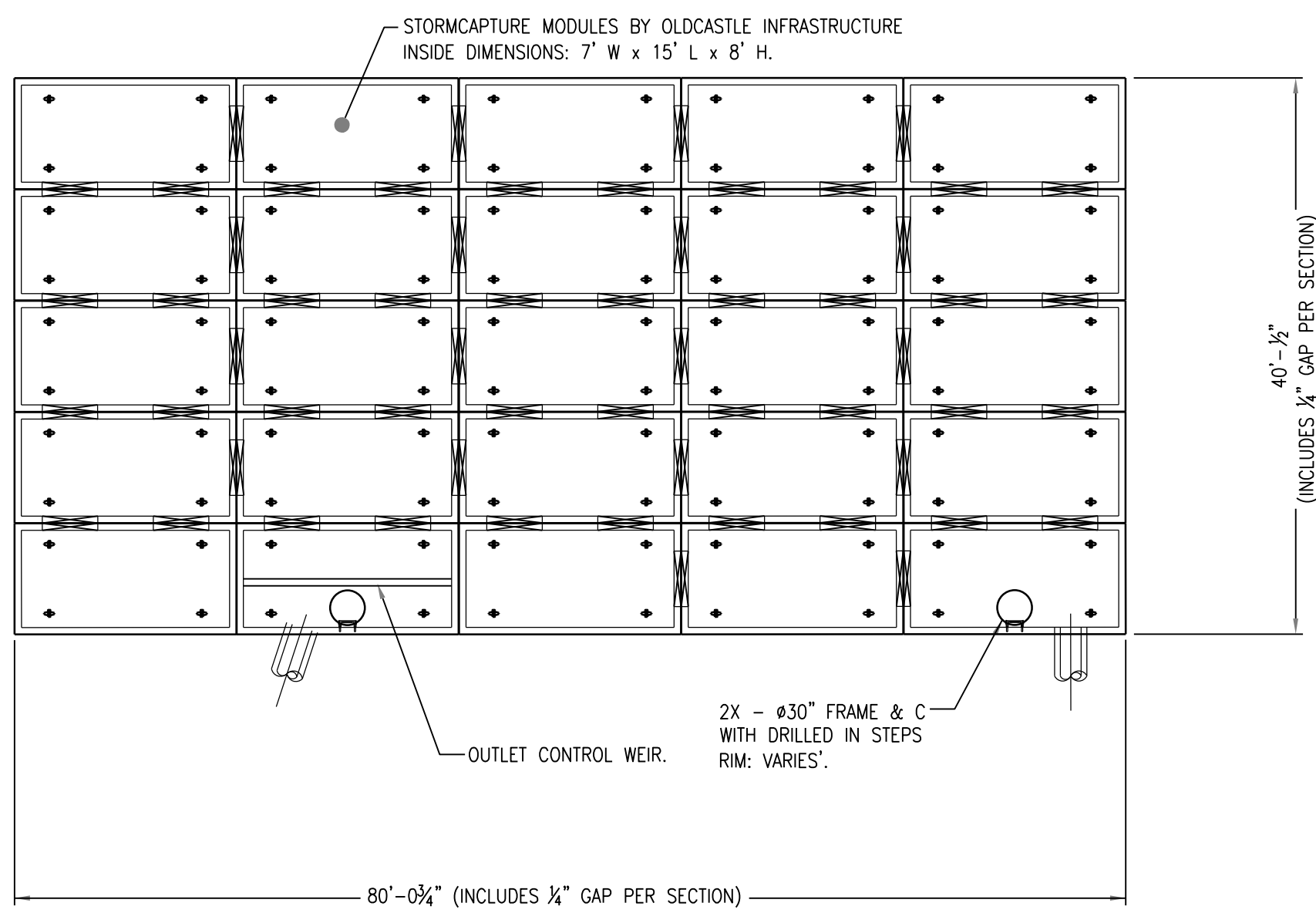
12-08-20 ISSUED FOR PERMITTING
14-22-24 RE-ISSUED FOR LONG LEAD PERMITTING
02-24-24 RE-ISSUED FOR LONG LEAD PERMITTING
11-03-23 RE-ISSUED FOR LONG LEAD PERMITTING

REVISED DESCRIPTION
THE REGISTRY OF THE NEWLY APPLIED SEAL ASSUMES RESPONSIBILITY FOR THE CHANGES AS INDICATED BY THE FOLLOWING REVISION NUMBER

BURNS & MCDONNELL
REGISTERED PROFESSIONAL ENGINEERS
NEWARK, N.J.

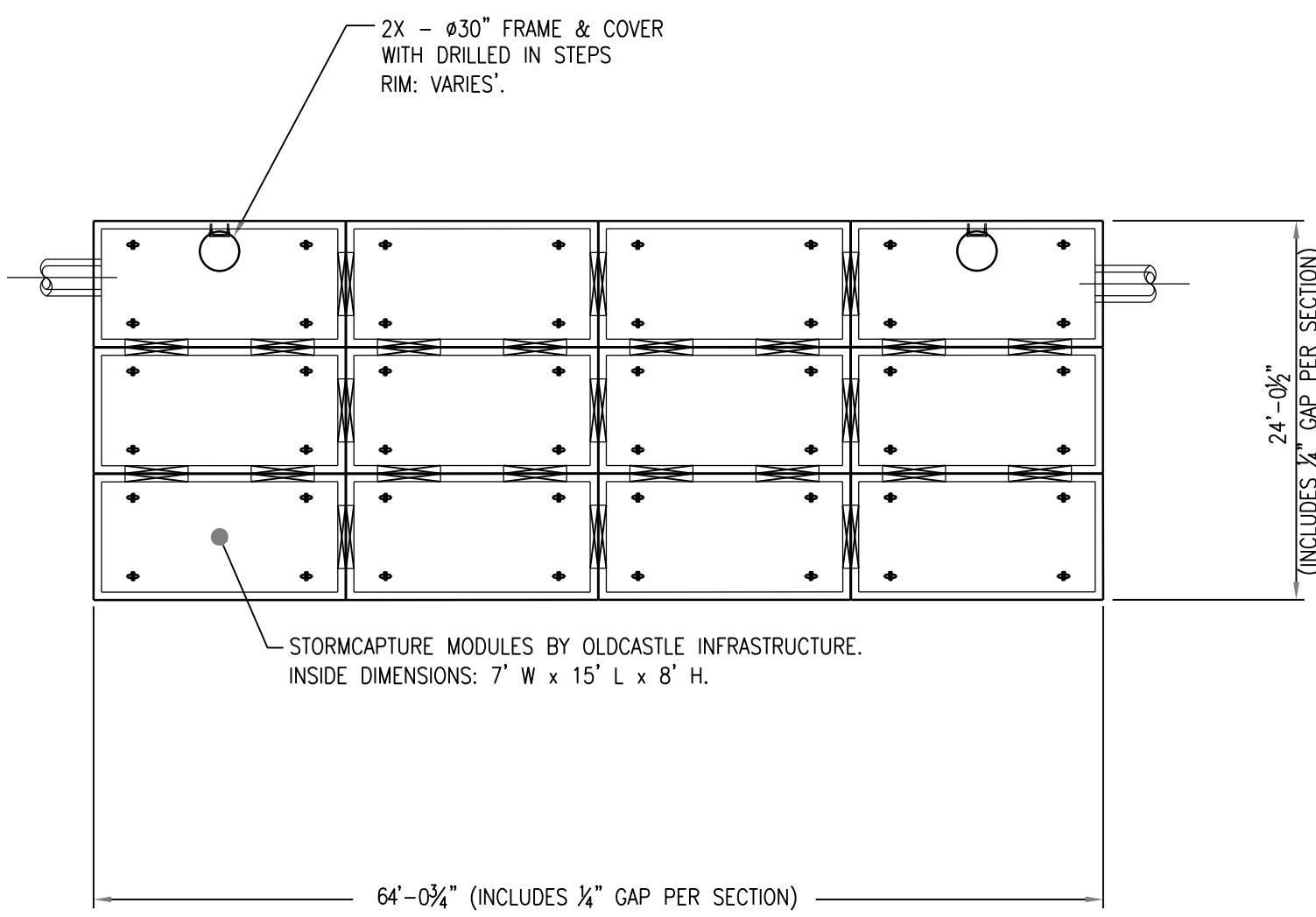
0 30' 60'
SCALE IN FEET





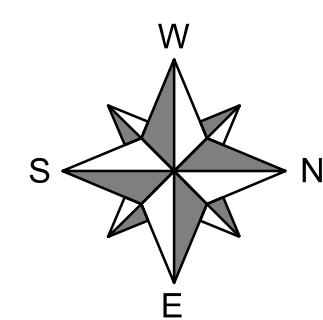
WEST BASIN

PLAN VIEW
SCALE: 1/16" = 1'-0"



EAST BASIN

PLAN VIEW
SCALE: 1/16" = 1'-0"



- PRELIMINARY -
NOT FOR CONSTRUCTION

Oldcastle Infrastructure
A GBC COMPANY
PH: 800.579.8819 | www.oldcastleinfrastructure.com/detentionmaster

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STORMCAPTURE®
SC2 Detention System

Customer:
Burns & McDonnell

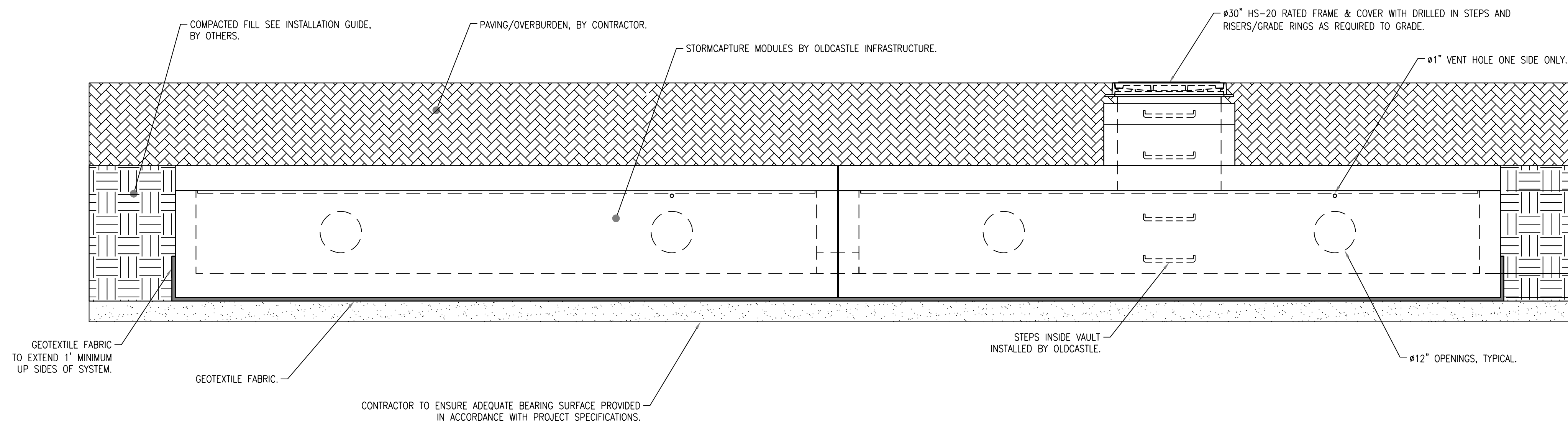
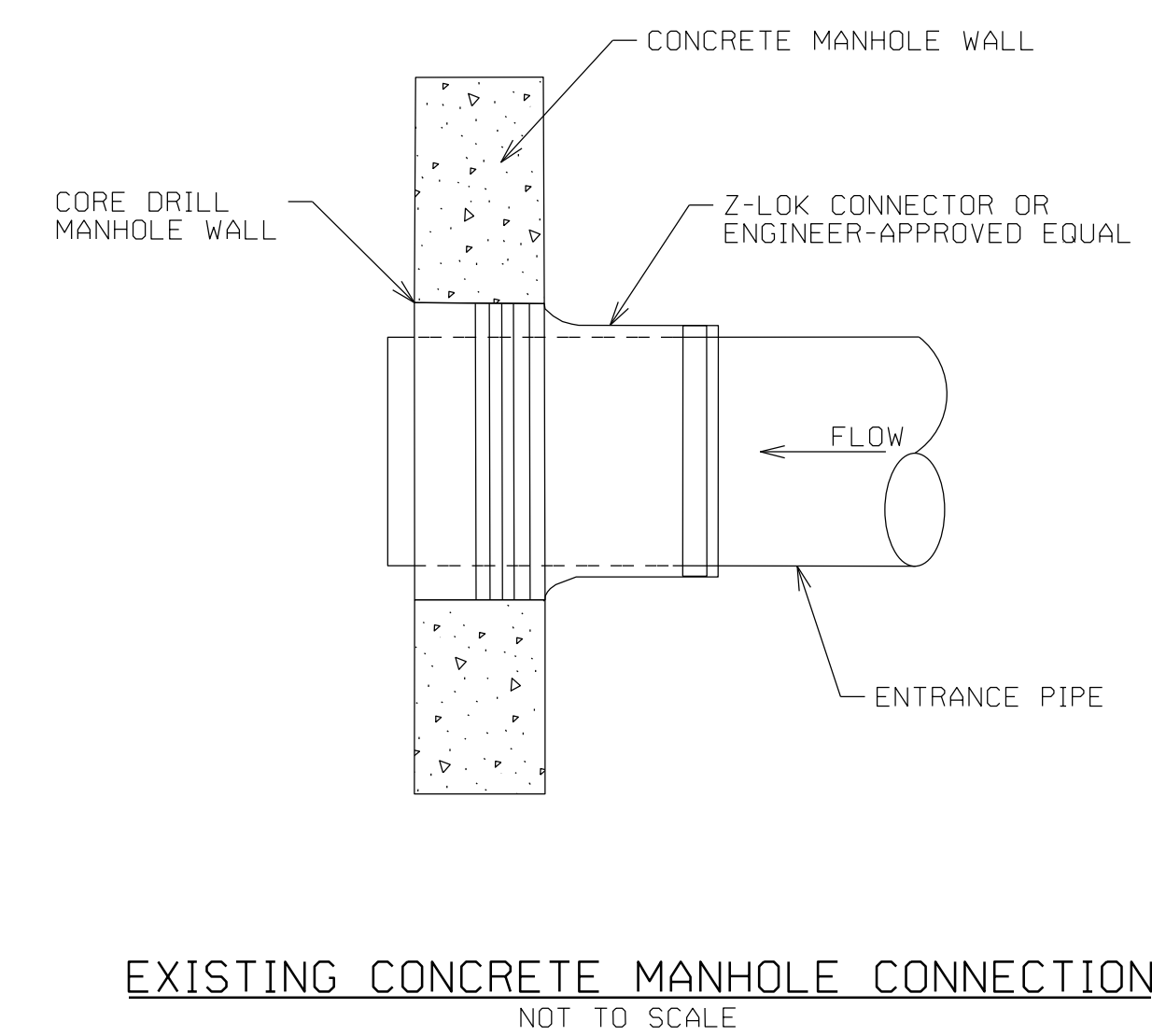
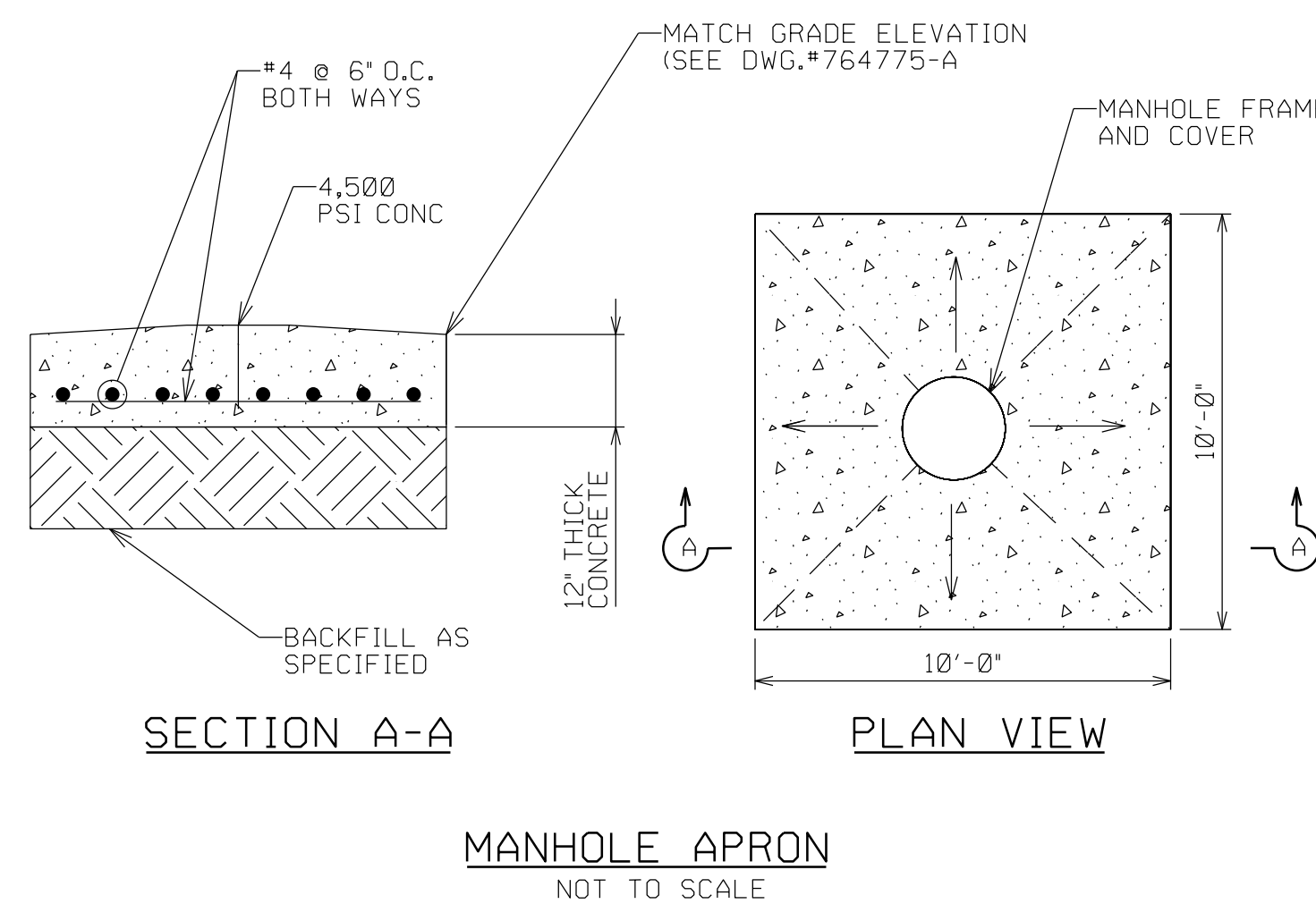
Job Name:
PSEG West Orange Switching Station - West Orange, NJ

DATE: 02-20-23 SALES (TOWN/ENGINEER/CHECKED) SALES ORDER
XXXXXXXX XX XX XX

DESIGN NUMBER: SC-PSEG West Orange

REVISION: N/A

SHEET: 1 OF 2



TYPICAL ELEVATION
SCALE: 3/8" = 1'-0"

- PRELIMINARY -
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STORMCAPTURE®
SC2 Detention System

Customer:
Burns & McDonnell

Job Name:
PSEG West Orange Switching Station - West Orange, NJ

DATE: 02-20-23 SALES (TOWN/ENGINEER/CHECKED) SALES ORDER
XXXXXXXX XX XX XX

DESIGN NUMBER: SC-PSEG West Orange

REVISION: N/A

SHEET: 2 OF 2



REV	DATE	DESCRIPTION
F	12-08-25	ISSUED FOR PERMITTING
E	9-09-24	ISSUED FOR REVIEW
D	5-8-24	ISSUED FOR PERMITTING
C	2-29-24	ISSUED FOR REVIEW
B	11-06-23	ISSUED FOR REVIEW

REVISION OF THE NEWLY APPLIED SEAL ASSUMES RESPONSIBILITY FOR THE CHANGES AS INDICATED BY THE FOLLOWING REVISION NUMBER: 0

REFERENCE DRAWINGS:

1. REMOVAL PLAN
 2. CIVIL SITE PLAN
 3. GRADING & DRAINAGE PLAN
 4. STORM SEWER PROFILES
 5. FENCE & GATE PLAN
 6. SOIL EROSION & SEDIMENT CONTROL PLAN
 7. SOIL EROSION & SEDIMENT CONTROL NOTES & DETAILS SH1
 8. SOIL EROSION & SEDIMENT CONTROL NOTES & DETAILS SH2
 9. CIVIL DETAILS SH1
 10. CIVIL DETAILS SH2
- DWG.# 792788-A
DWG.# 792789-A
DWG.# 792790-A
DWG.# 792791-A
DWG.# 792792-A
DWG.# 792793-A
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DWG.# 792797-A

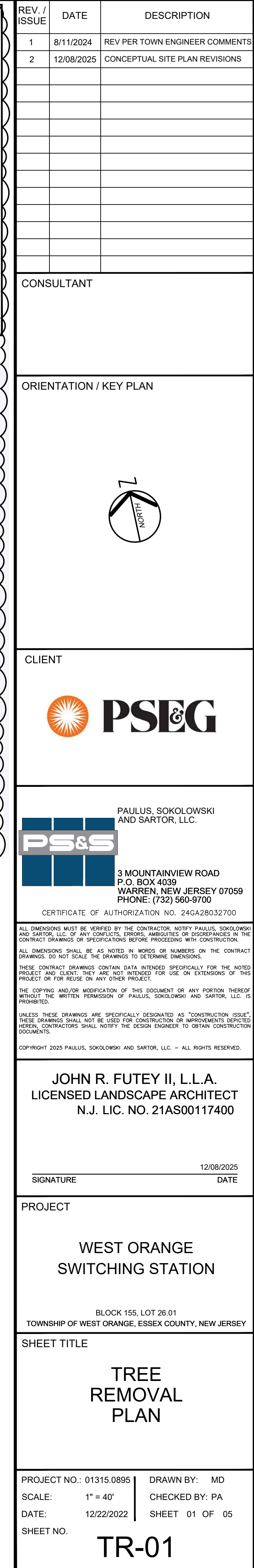
NO	DATE	DESCRIPTION	DWN	CKD	EXD	APD
1						
2						
3						
4						
5						
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REVISION		
WEST ORANGE SWITCHING STATION 230/26/4KV OUTDOOR SUBSTATION CIVIL DETAILS		
DETAILS	SH 3	CIVIL

PSEG
PUBLIC SERVICE ELECTRIC AND GAS COMPANY
ELECTRIC DELIVERY COMPANY-ASSET RELIABILITY, NEWARK N.J.

DRAWN: L.POTGIETER CHECKED: S.MACALUSO SCALE: NONE
DATE: 02/20/23 EXAMINED: _____
WBS/SD: 90WESTORNGLE APPROVED: _____

792798 A -0Per



LOT 1

KEY	QTY	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	EST. SIZE AT MATURITY	ROOT	REMARKS
SHADE TREES							
LS	8	LIQUIDAMBAR STYRACIFLUA	SWEETGUM	4" CAL. MIN.	HEIGHT: 60'-75'; SPREAD: 35'-50'	B+B	SINGLE TRUNK
LT	12	LIRIODENDRON TULIPIFERA	TULIP POPLAR	4" CAL. MIN.	HEIGHT: 70'-90'; SPREAD: 35'-50'	B+B	SINGLE TRUNK
NS	2	NYSSA SYLATICA	BLACK GUM	4" CAL. MIN.	HEIGHT: 50'-60'; SPREAD: 20'-30'	B+B	SINGLE TRUNK
TA	5	TILIA AMERICANA 'AMERICAN SENTRY'	AMERICAN SENTRY LINDEN	4" CAL. MIN.	HEIGHT: 50'-60'; SPREAD: 30'-50'	B+B	SINGLE TRUNK
QA	12	QUERCUS ALBA	WHITE OAK	4" CAL. MIN.	HEIGHT: 50'-60'; SPREAD: 50'-70'	B+B	SINGLE TRUNK
QB	5	QUERCUS BICOLOR	SWAMP WHITE OAK	4" CAL. MIN.	HEIGHT: 50'-60'; SPREAD: 50'-60'	B+B	SINGLE TRUNK
QP	11	QUERCUS PHELLOX	WILLOW OAK	4" CAL. MIN.	HEIGHT: 50'-70'; SPREAD: 30'-50'	B+B	SINGLE TRUNK
EVERGREEN TREES							
JNS	10	JUNEPERUS 'NELLIE R. STEVENS'	NELLIE R. STEVENS HOLLY	4" CAL. MIN.	HEIGHT: 15'-25'; SPREAD: 10'-15'	B+B	-
INB	21	ILLEX 'VIRGINIANA EMERALD SENTINEL'	EMERALD SENTINEL REDCEDAR	4" CAL. MIN.	HEIGHT: 15'-20'; SPREAD: 6'-8'	B+B	-
PA-1	17	PICEA ABIES	NORWAY SPRUCE	2.5" CAL. MIN.	HEIGHT: 50'-60'; SPREAD: 25'-30'	B+B	-
PA-2	7	PICEA ABIES	NORWAY SPRUCE	4" CAL. MIN.	HEIGHT: 50'-60'; SPREAD: 25'-30'	B+B	-
PG-1	11	PICEA GLAUCOA 'DENSDATA'	BLACK HILLS SPRUCE	2.5" CAL. MIN.	HEIGHT: 50'-60'; SPREAD: 15'-20'	B+B	-
PG-2	12	PICEA GLAUCOA 'DENSDATA'	BLACK HILLS SPRUCE	4" CAL. MIN.	HEIGHT: 50'-60'; SPREAD: 15'-20'	B+B	-
PO-1	12	PICEA OMORIKIA	SERBIAN SPRUCE	2.5" CAL. MIN.	HEIGHT: 50'-60'; SPREAD: 15'-20'	B+B	-
PO-2	8	PICEA OMORIKIA	SERBIAN SPRUCE	4" CAL. MIN.	HEIGHT: 50'-60'; SPREAD: 15'-20'	B+B	-
PO-3	10	PICEA OMORIKIA	SERBIAN SPRUCE	4" CAL. MIN.	HEIGHT: 50'-60'; SPREAD: 15'-20'	B+B	-
PS-1	13	PINUS STROBUS	EASTERN WHITE PINE	2.5" CAL. MIN.	HEIGHT: 50'-60'; SPREAD: 20'-40'	B+B	-
PS-2	10	PINUS STROBUS	EASTERN WHITE PINE	4" CAL. MIN.	HEIGHT: 50'-60'; SPREAD: 20'-40'	B+B	-
ORNAMENTAL TREES							
CCN	10	AMELANCHIER CANADENSIS	SHADBLOW SERVICEBERRY	4" CAL. MIN.	HEIGHT: 25'-30'; SPREAD: 15'-20'	B+B	MULTI-TRUNK
CA	9	CORNUS ALTERNIFOLIA	PAGODA DOGWOOD	4" CAL. MIN.	HEIGHT: 25'-30'; SPREAD: 20'-30'	B+B	SINGLE TRUNK
CCN	16	CERISIO CANADENSIS	EASTERN REDBUD	4" CAL. MIN.	HEIGHT: 20'-30'; SPREAD: 25'-35'	B+B	MULTI-TRUNK
EVERGREEN SHRUBS							
VR	12	VIBURNUM RHYTHYDOPHYLOIDES 'ALLEGHENY'	ALLEGHENY VIBURNUM	4'-5" HEIGHT	HEIGHT: 10'-10'; SPREAD: 8'-10'	B+B	-
DECIDUOUS SHRUBS							
AP	15	AESCULUS PARVIFLORA	BOTTLEBUSH BUCKEYE	30"-38" HEIGHT	HEIGHT: 8'-12'; SPREAD: 8'-15'	CONT.	-
HV	3	HAMAMELIS VERNALIS	VERNAL WITCH HAZEL	30"-38" HEIGHT	HEIGHT: 8'-10'; SPREAD: 8'-10'	CONT.	-

NOTE:

1. IF ANY DISCREPANCIES OCCUR BETWEEN QUANTITIES SHOWN IN THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE.
2. ALL EXISTING LAWN AREAS DISTURBED BY CONSTRUCTION ACTIVITIES TO BE RESEED.

ORDINANCE SECTION	REQUIRED PER ORDINANCE	PROPOSED	COMPLIANCE (Y/N)
SECTION 25-27.8.a AT LEAST THIRTY (30%) PERCENT OF THE TREES ON EACH PARTICULAR LOT OR DEVELOPMENT SITE SHALL BE PRESERVED.	THIRTY PERCENT (30%)	SEVENTY-NINE PERCENT (79%) 89 Viable TREES & 14 DEAD TREES ARE PROPOSED TO BE REMOVED OUT OF 488 TOTAL TREES ON SITE	Y

TREE REPLACEMENT REQUIREMENT (PER §25-27.8:Table A):

TOTAL VIABLE TREES ON SITE TO BE REMOVED FOR IMPROVEMENTS (DBH 4" - > 33"):

BETWEEN 4" AND 6" INCHES:	27
BETWEEN 6" AND 13" INCHES:	33
BETWEEN 13" AND 22" INCHES:	12
BETWEEN 23" AND 32" INCHES:	8
GREATER THAN 33" INCHES:	9

NON-VIABLE TREES TO BE REMOVED*:
(*NONVIABLE TREES TO BE REMOVED ARE TO BE REPLACED ON A 1:1
RATIO WITHIN 2 YEARS OF REMOVAL - PER §25-27.4.d.1)

TREES REQUIRED TO BE REPLACED (PER §25-27.8:Table A):

BETWEEN 4" AND 6" INCHES (27 x 1):	27
BETWEEN 6" AND 13" INCHES (33 x 2):	66
BETWEEN 13" AND 22" INCHES (12 x 3):	36
BETWEEN 23" AND 32" INCHES (8 x 4):	32
GREATER THAN 33" INCHES (9 x 5):	45
* NON-VIABLE TREES TO BE REPLACED:	14

TOTAL REPLACEMENT TREES REQUIRED

QUANTITY OF TREES PROPOSED ON-SITE AT 2.5" Caliper
(PER LANDSCAPE PLAN)

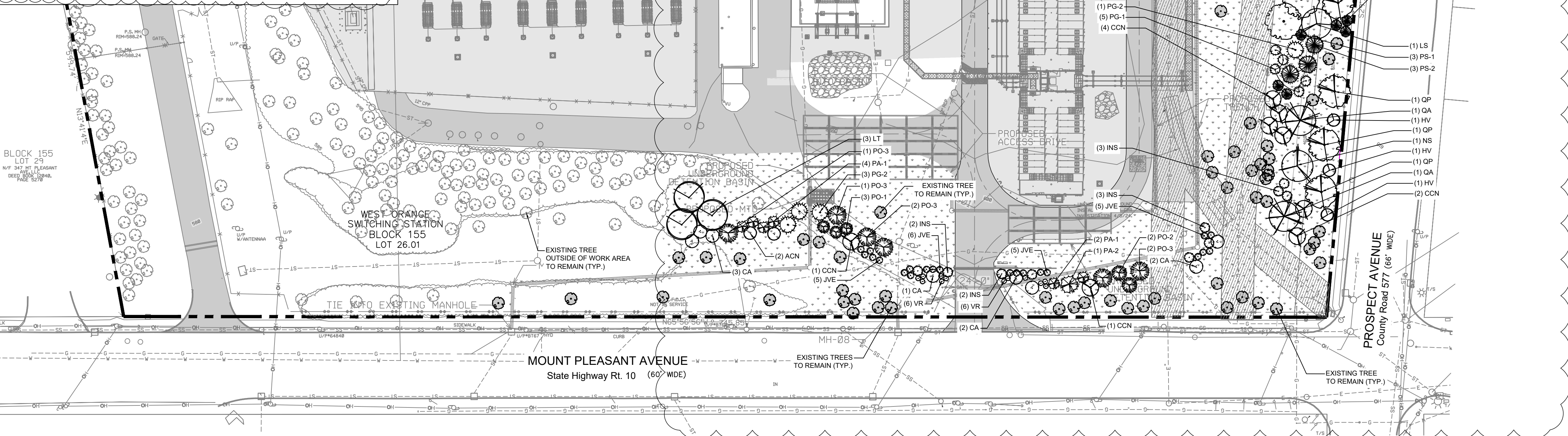
QUANTITY OF TREES PROPOSED ON-SITE AT 4" Caliper:
(PER LANDSCAPE PLAN)

= 220 TOTAL TREES PROPOSED ON-SITE

TOTAL NUMBER OF 4" Caliper COMPENSATORY TREES TO
BE DEPOSITED TO WEST ORANGE TREE FUND
(PER §25-27.8.c.1)

NOTES

1. APPLICANT SHALL SECURE A TREE REMOVAL PERMIT FROM THE TOWNSHIP OF WEST ORANGE PRIOR TO SITE DISTURBANCE, IN ACCORDANCE WITH §25-27.4a.
2. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO SITE DISTURBANCE AND REMAIN UNTIL COMPLETION OF ALL CONSTRUCTION ACTIVITIES.



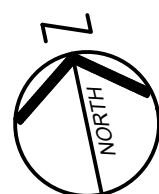
NOTE:

1. SURVEY AND SITE PLAN INFORMATION REFERENCED FROM PLANS ENTITLED "WEST ORANGE SWITCHING STATION 230/26/4KV OUTDOOR SUBSTATION KEY PLAN" DATED 7/19/2022.

[illegible]

CONSULTANT

ORIENTATION / KEY PLAN



CLIENT



PAULUS, SOKOLOWSKI
AND SARTOR, LLC



3 MOUNTAINVIEW ROAD
P.O. BOX 4039
WARREN, NEW JERSEY 07059
PHONE: (732) 560-9700

CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

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JOHN R. FUTEY II, L.L.A.
LICENSED LANDSCAPE ARCHITECT
N.J. LIC. NO. 21AS00117400

SIGNATURE _____ DATE 12/08/2025

PROJECT

WEST ORANGE
SWITCHING STATION

BLOCK 155, LOT 26.01
TOWNSHIP OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY

SHEET TITLE

LANDSCAPE PLAN

PROJECT NO.: 01315.0895	DRAWN BY: MD
SCALE: 1" = 40'	CHECKED BY: PA
DATE: 12/22/2022	SHEET 04 OF 05
SHEET NO.	

L-01

