

1. ALL WATER AND WASTE WATER FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH NEW JERSEY AMERICAN WATER COMPANY (NAWA) CAMDEN CO. SOL. CONSERVATION DISTRICT & NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION (NJDEP) STANDARDS.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF THE CONSTRUCTION. ANY ERRORS OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
3. LOCATION OF EXISTING UTILITIES ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.
4. THE CONTRACTOR SHALL USE EXCAVATED MATERIALS FOR BACKFILL UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
5. ALL PAVED AND CONCRETE AREAS DESTROYED DURING CONSTRUCTION SHALL BE RESTORED TO EXISTING CONDITION AT LEAST EQUAL TO THAT WHICH EXISTED PRIOR TO THE START OF CONSTRUCTION.
6. ALL FILL SHALL BE PLACED IN 12" LAYERS AND THOROUGHLY COMPACTED TO THE SATISFACTION OF THE ENGINEER. IF BORROW FILL IS REQUIRED, IT SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PRESERVATION OF THE UNDERGROUND AND SURFACE UTILITIES AND STRUCTURES AT OR ADJACENT TO THE SITE OF CONSTRUCTION AND IT SHALL BE AT HIS OWN EXPENSE TO REPAIR OR REPLACE ANYTHING THAT HE DAMAGES.
8. BASELINES HAVE BEEN PROVIDED ON THE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE THE BASELINE AS SHOWN ON THE PLAN.
9. APPROXIMATE DEPTH OF ALL WATER MAIN IS ± 4 FEET.
10. APPROXIMATE DEPTH OF ALL ELECTRIC MAIN IS ± 2 FEET.
11. APPROXIMATE DEPTH OF ALL GAS MAIN IS ± 3 FEET.
12. ALL CONSTRUCTION DETAILS NOT SHOWN SHALL BE IN ACCORDANCE WITH N.J.D.O.T. STANDARDS AS DETAILED IN:
 - "STANDARD ROADWAY CONSTRUCTION/TRAFFIC CONTROL/BRIDGE CONSTRUCTION DETAILS"
 - "ELECTRICAL BUREAU STANDARD DETAILS: 2001"INCLUDING ALL APPLICABLE BASELINE DOCUMENT CHANGES AND APPENDICES. THESE DETAILS MAY BE PURCHASED THROUGH THE N.J.D.O.T. PLANS AND SPECIFICATION CENTER AT:
1035 PARKWAY AVENUE,
TRENTON, NEW JERSEY
08625-1600
(TELEPHONE: 1-800-530-2098)

ENVIRONMENTAL COMMITMENTS:

1. IMPLEMENT SOIL EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION.
2. IMPLEMENT STANDARD MEASURE FOR CONSTRUCTION RELATED NOISE AND AIR QUALITY IMPACT CONTROLS.
3. BEST MANAGEMENT PRACTICE WILL BE UTILIZED DURING CONSTRUCTION TO PREVENT SEDIMENT FROM ENTERING STORM WATER PULTS AND ENVIRONMENTALLY SENSITIVE AREAS.
4. CONSTRUCTION STAGING ACTIVITIES (INCLUDING STORAGE OF EQUIPMENT, VEHICLES AND MATERIALS) ARE PROHIBITED IN THE ENVIRONMENTALLY SENSITIVE AREA OR GREEN ACRES ENDOWMENTED PROPERTIES.
5. IF CONTACT WITH THE NORTHERN LONG-EARED BAT IS MADE DURING MAINTENANCE OPERATION, CONSULTATION WITH USFWS AND BPR WILL BE REQUIRED.

13. SEPARATE PAYMENT WILL NOT BE MADE FOR SAW CUTTING OF ANY KIND, BUT THE COST SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.
14. PAYMENT FOR JOINT MATERIAL FOR ALL CONCRETE WORK WILL NOT BE MEASURED BUT SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.
15. TRAFFIC CONTROL SHALL BE PAID UNDER "MAINTENANCE AND PROTECTION OF TRAFFIC" AND SHALL BE IN ACCORDANCE WITH THE LATEST NJ DEPARTMENT OF TRANSPORTATION STANDARDS.
16. MANHOLE CASTINGS THAT ARE TO BE RESET SHALL BE RESET 3" LOWER THAN THE PROPOSED PAVEMENT ELEVATION.
17. THE NEW JERSEY DEPARTMENT OF TRANSPORTATION (NJDOT) STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION ALONG WITH THE 2010 STATE AND SUPPLEMENTAL SPECIFICATION AS MODIFIED SHALL GOVERN THIS PROJECT.
18. ALL UNUSED MATERIAL EXCAVATED FROM THE PROJECT SITE ARE TO BE DISPOSED OF AT AN APPROVED FACILITY. THE CONTRACTOR IS RESPONSIBLE FOR TESTING OF SOIL TO BE REMOVED FROM THE SITE.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED IN THE PLANS AND SPECIFICATIONS. SEPARATE PAYMENT FOR ALL ASSOCIATED COSTS WILL NOT BE MADE, BUT SHALL BE INCLUDED UNDER VARIOUS ITEMS OF THE PROPOSAL.
20. THE CONTRACTOR SHALL ANTICIPATE GROUND WATER INFILTRATION OCCURRING THROUGHOUT THE COURSE OF THE VARIOUS TASKS ASSOCIATED WITH THIS PROJECT. ALL COSTS ASSOCIATED WITH THE TEMPORARY BYPASS PUMPING AND OR DOWNGRADING SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE PROPOSAL.
21. ALL UTILITY WORK SHALL BE CONSTRUCTED TO ALLOW UNINTERRUPTED SERVICE TO ADJACENT PROPERTIES.
22. EXISTING WATER MAIN, SANITARY SEWER, GAS MAIN, STORM SEWER, ELECTRICAL SERVICES AND ALL OTHER UTILITIES SHALL BE FULLY SUPPORTED AND MAINTAINED DURING INSTALLATION OF THE PROPOSED UTILITY WORK, SERVICES AND LATERALS.
23. THE TRENCH LIMIT OF DISTURBANCE WITHIN THE ASPHALT ROADWAY SHALL BE LIMITED TO A 4' WIDTH PER UTILITY TRENCH. THE LAY DOWN AREA FOR THE EXCAVATED MATERIAL SHALL BE IMMEDIATELY ADJACENT TO THE TRENCH AND SHALL BE ISOLATED TO THE ASPHALT ROADWAY. TRENCH SHALL BE BACKFILLED AT THE END OF EACH DAY. ALL BASE PAVING SHALL BE COMPLETED ONCE A MONTH FOR ALL WORK COMPLETED THAT WEEK.
24. THE CONTRACTOR WILL BE RESPONSIBLE FOR KEEPING THE PAVED TRAVEL PATH FREE AND CLEAR OF SEDIMENT EACH DAY THE WORK PROGRESSES AND AS OFTEN AS NECESSARY TO KEEP A CLEAN BROOM SWEEP CONDITION AND OR AS DIRECTED BY THE ENGINEER.
25. THE ELEVATION OF THE EXISTING WATER MAIN AS DEPICTED ON THE DRAWINGS IS ASSUMED. CONTRACTOR SHALL CONFIRM ELEVATION OF EXISTING WATER MAIN AND LOCATION OF ALL SERVICE CONNECTION DURING CONSTRUCTION.
26. ALL CONNECTIONS TO THE EXISTING WATER MAIN SHALL BE REPLACED. THE INSTALLATION OF NEW FIRE SERVICE LATERALS SHALL INCLUDE ALL PIPING, VALVES, VALVE BOXES AND RECONNECTION OF EXISTING SERVICE.
27. ALL UTILITY CROSSINGS/OFFSETS SHALL INCLUDE COMPACTED STABILIZATION MATERIAL FOR FULL LENGTH OF CROSSING.
28. SEPARATE PAYMENT WILL NOT BE MADE FOR EXCAVATION, DEWATERING, FITTINGS, PIPE BEDDING, SHEETING, BRACING, SHIELDING, INLET CONNECTIONS, TRAPS, AND SUITABLE BACKFILL MATERIAL INVOLVED IN ALL PIPE AND ASSOCIATED STRUCTURES REMOVAL, RECONSTRUCTION AND INSTALLATION, BUT THE COST SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL, REGARDLESS OF DEPTH.
29. THE CONTRACTOR SHALL EXERCISE PARTICULAR CARE, ESPECIALLY AT INTERSECTIONS AND GUTTER LINES, IN MILLING AND CONSTRUCTION OF PAVEMENT TO PROVIDE POSITIVE FLOWING STORMWATER. ANY AREAS WHERE WATER IS IMPOUNDED SHALL BE CORRECTED BY THE CONTRACTOR AT NO COST TO THE OWNER.
30. ALL WORK TO BE COORDINATED WITH SEPARATE CONTRACTORS FOR ONGOING WORK IN AREAS SURROUNDING THE SITES.
31. AT ALL LIMITS OF PAVING (L.O.P.) THE CONTRACTOR SHALL SAWCUT, TACK COAT AND SEAL TO MATCH EXISTING PAVEMENT. SEPARATE MEASUREMENT AND PAYMENT FOR ALL THIS WORK SHALL NOT BE MADE AND ALL COSTS SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE BID.
32. INLET SEDIMENT PROTECTION SHALL BE INSTALLED AT ALL EXISTING AND PROPOSED INLETS AND CATCH BASINS SHOWN ON THE PLANS. SEPARATE PAYMENT WILL NOT BE MADE, BUT SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.
33. THE CONTRACTOR SHALL NOT BE PERMITTED TO UTILIZE ANY KIND OF VIBRATORY ROLLER OR VIBRATORY DRUM COMPACTOR ON THIS PROJECT. ALTERNATIVE COMPACTION TECHNIQUES, SUCH AS STATIC ROLLERS, SHALL BE APPROVED BY THE RESIDENT ENGINEER.
34. STAINLESS STEEL BOLTS ARE TO BE USED FOR ALL BURIED BOLTS.
35. POLYETHYLENE WRAP SHALL BE USED ON ALL DUCTILE IRON PIPING, FITTINGS & APPURTENANCES THROUGHOUT THE PROJECT.



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GENERAL NOTES	
SOUTH JERSEY WATER COMPANY BROADWAY TERMINAL WATER MAIN REPLACEMENT CAMDEN, NEW JERSEY	
DATE: 4/22/2023	BY: [Signature]
CHK: [Signature]	DATE: 4/22/2023
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NOTE: ALL SYMBOLS MAY NOT BE USED

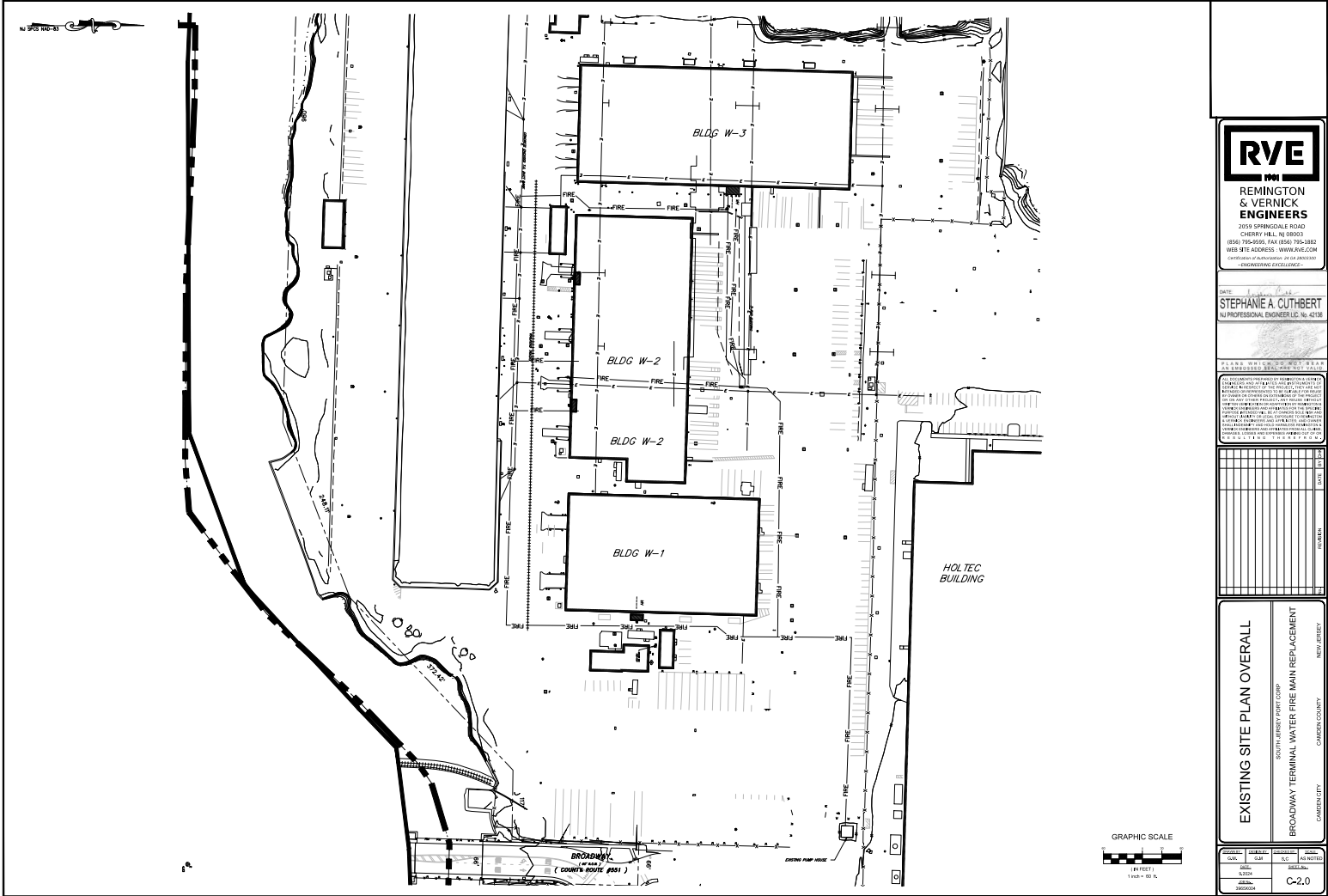
ITEM	DESCRIPTION	EXISTING	PROPOSED	ITEM	DESCRIPTION	EXISTING	PROPOSED	ITEM	DESCRIPTION	EXISTING	PROPOSED	
UTILITIES	OVERHEAD WIRE			SURVEY	BENCHMARK LOCATION		SITE & ROADWORK	EDGE OF PAVEMENT				
	SANITARY FORCE MAIN PIPE				GROWS FOOT			CURB				
	STORM SEWER PIPE ≤12"				AERIAL TARGET			PAVEMENT / CONC. / SIDEWALK				
	STORM SEWER PIPE >12"				CONCRETE MONUMENT				CONCRETE SIDEWALK			
	GAS SERVICE				PK / MAG NAIL / DRILL HOLE / SPIKE				PAVEMENT, FULL DEPTH RESTORATION			
	SANITARY SEWER PIPE ≤12"				DRILL HOLE W/ WINGS				DRIVEWAY RESTORATION, ASPHALT			
	SANITARY SEWER PIPE >12"				STAKE				DRIVEWAY RESTORATION, BRICK			
	ELECTRIC SERVICE				HUB				DRIVEWAY RESTORATION, CONCRETE			
	FIBER OPTIC SERVICE				FIN W/ CAP				DRIVEWAY RESTORATION, STONE			
	TELEPHONE SERVICE				IRON PIPE							
	COMMUNICATIONS SERVICE				IRON PIN							
	IRRIGATION PIPE				CROSS OUT							
	FIRE SERVICE				DEK							
	WATER SERVICE				STONE							
	WATER SHUT-OFF				REBAR							
	WATER METER											
	WATER VALVE											
	WATER HYDRANT											
	WELL											
	YARD HYDRANT											
	METER PIT											
	GAS SHUT-OFF											
	GAS METER											
	GAS VALVE											
	GAS LINE MARKER											
CLEANOUT												
SEWER VENT												
INLET TYPE A			ENVIRONMENTAL	BORING LOCATION		LANDSCAPING	GRASS/DOOD					
INLET TYPE B				MONITORING WELL LOCATION			DEPT. OF TRANSPORTATION	MANHOLE				
INLET TYPE E				TEST PIT LOCATION			STATE HIGHWAY DEPARTMENT	RAILROAD CROSSING BEACON				
AREA DRAIN				FRESHWATER WETLAND FLAG			RAILROAD CROSSING BEACON	CALL BOX				
MANHOLES				FRESHWATER WETLAND FLAG			CALL BOX	OLL FILL				
HEADWALL				FRESHWATER WETLAND BUFFER			OLL FILL	UNDERGROUND STORAGE TANK LD				
HEADWALL W/ WINGS				EDGE OF WATER			UNDERGROUND STORAGE TANK LD	RISER PIPE				
IRRIGATION CONTROL VALVE				STREAM CENTERLINE			RISER PIPE	RAISED PAVEMENT MARKER				
IRRIGATION BOX							RAISED PAVEMENT MARKER					
IRRIGATION CONTROL BOX												
SPRINKLER HEAD												
UNKNOWN VALVE												
COMMUNICATIONS PEDESTAL												
COMMUNICATIONS LINE MARKER												
TELEPHONE PEDESTAL												
TELEPHONE LINE MARKER												
ELEC. BOX												
ELEC. METER												
ELEC. TRANSFORMER PAD												
ELEC. VAULT												
ELEC. LINE MARKER												
UTILITY POLE			GRADING	TOP OF BANK / DITCH		ABBREVIATIONS	ABN	ABN	ABN	ABN		
GUY ANCHOR				BOTTOM OF BANK / DITCH			CONCRETE MONUMENT	CONCRETE MONUMENT	CONCRETE MONUMENT	CONCRETE MONUMENT	CONCRETE MONUMENT	CONCRETE MONUMENT
ELEC. OUTLET				CONTOUR (MAJOR)			CONCRETE MONUMENT	CONCRETE MONUMENT	CONCRETE MONUMENT	CONCRETE MONUMENT	CONCRETE MONUMENT	CONCRETE MONUMENT
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VENT				FLOW LINE / SWALE			CONCRETE MONUMENT	CONCRETE MONUMENT	CONCRETE MONUMENT	CONCRETE MONUMENT	CONCRETE MONUMENT	CONCRETE MONUMENT
VENT PIPE				TIME OF CONCENTRATION			CONCRETE MONUMENT	CONCRETE MONUMENT	CONCRETE MONUMENT	CONCRETE MONUMENT	CONCRETE MONUMENT	CONCRETE MONUMENT
				SPOT GRADE			CONCRETE MONUMENT	CONCRETE MONUMENT	CONCRETE MONUMENT	CONCRETE MONUMENT	CONCRETE MONUMENT	CONCRETE MONUMENT
				ROADWAY GRADE			CONCRETE MONUMENT	CONCRETE MONUMENT	CONCRETE MONUMENT	CONCRETE MONUMENT	CONCRETE MONUMENT	CONCRETE MONUMENT
				DRAINAGE FLOW			CONCRETE MONUMENT	CONCRETE MONUMENT	CONCRETE MONUMENT	CONCRETE MONUMENT	CONCRETE MONUMENT	CONCRETE MONUMENT
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PROJ. No. 1000-03-0000-2
Activity No. LUP000001
Sheet: 4/22/2024

Remington & Vernick Engineers
2050 SPRINGDALE ROAD
CHERRY HILL, NJ 08033
(856) 795-5595, FAX (856) 795-1882
WEB SITE ADDRESS: WWW.RVE.COM
CORPORATE OFFICE: 1000 SPRINGDALE ROAD, CHERRY HILL, NJ 08033
ENGINEERING EXCELLENCE

STEPHANIE A. CUTHBERT
REGISTERED PROFESSIONAL ENGINEER, No. 40139

PLANNED PROJECT: BROADWAY TERMINAL WATER FIRE MAIN REPLACEMENT
PROJECT LOCATION: SOUTH JERSEY PORT CORP.
PROJECT NO. 1000-03-0000-2
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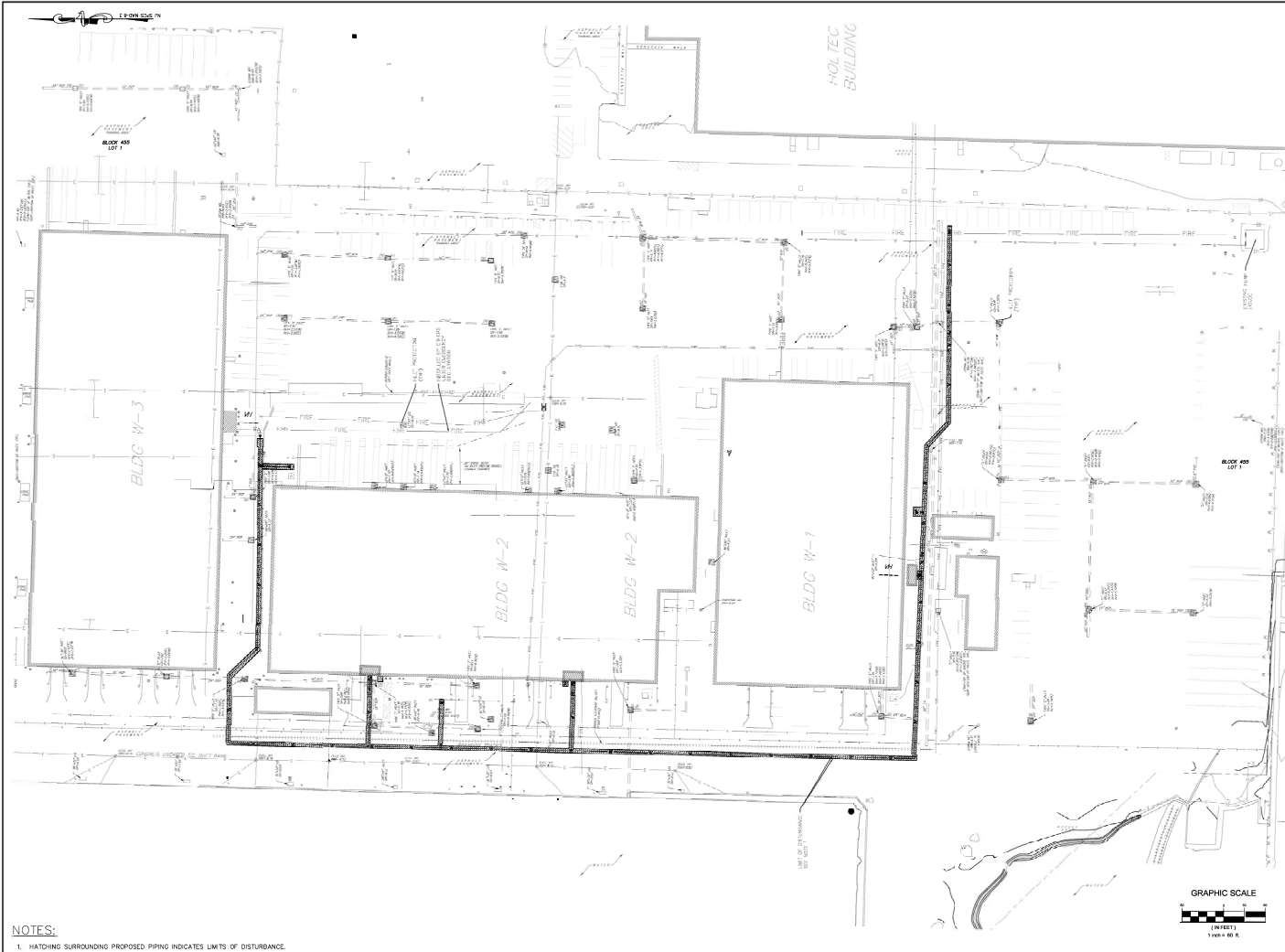
REMINGTON
& VERNICK
ENGINEERS
2055 SPRINGDALE ROAD
CHERRY HILL, NJ 08003
(609) 795-0995 FAX (609) 795-1883
WEB SITE ADDRESS: WWW.RVE.COM
Certification of Authorization: PE No. 40000001
Professional Engineer License No. 40000001

DATE: 11/11/11
STEPHANIE A. CUTHBERT
NJ PROFESSIONAL ENGINEER, License No. 42134

PLANS WHICH DO NOT BEAR
THE ENGINEER'S SEAL OR
SIGNATURE ARE NOT VALID
FOR CONSTRUCTION
THIS PLAN IS THE PROPERTY OF
REMINGTON & VERNICK ENGINEERS
AND IS NOT TO BE REPRODUCED
OR COPIED IN ANY MANNER
WITHOUT THE WRITTEN
CONSENT OF REMINGTON &
VERNICK ENGINEERS
NEW JERSEY
CAMPDEN COUNTY

EXISTING SITE PLAN OVERALL
SOUTH BERRY POINT CORP
BROADWAY TERMINAL WATER FIRE MAIN REPLACEMENT
CAMPDEN COUNTY
NEW JERSEY

DESIGNED BY	DATE	SCALE	PROJECT
SA	11/11/11	AS NOTED	C-2.0



NOTES:
1. HATCHING SURROUNDING PROPOSED PIPING INDICATES LIMITS OF DISTURBANCE.



RVE
1901
REMINGTON & VERNICK ENGINEERS
2058 SPRINGDALE ROAD
CHERRY HILL, NJ 08003
(609) 795-6995 FAX (609) 795-3882
WEB SITE ADDRESS: WWW.RVE.COM
Certification of Authorization: NJ 0A 00000001
-ENGINEERING REGISTRATION-

Stephen C. Verno

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID

THE ENGINEER HEREBY CERTIFIES THAT HE HAS PREPARED THE ABOVE PLANS AND SPECIFICATIONS AND THAT HE IS A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NEW JERSEY. HE FURTHER CERTIFIES THAT HE HAS REVIEWED THE PLANS AND SPECIFICATIONS AND THAT THEY COMPLY WITH THE REQUIREMENTS OF THE NEW JERSEY ENGINEERING ACT AND THE RULES AND REGULATIONS OF THE BOARD OF ENGINEERING EXAMINERS. HE ALSO CERTIFIES THAT HE HAS REVIEWED THE PLANS AND SPECIFICATIONS AND THAT THEY COMPLY WITH THE REQUIREMENTS OF THE NEW JERSEY ENGINEERING ACT AND THE RULES AND REGULATIONS OF THE BOARD OF ENGINEERING EXAMINERS.

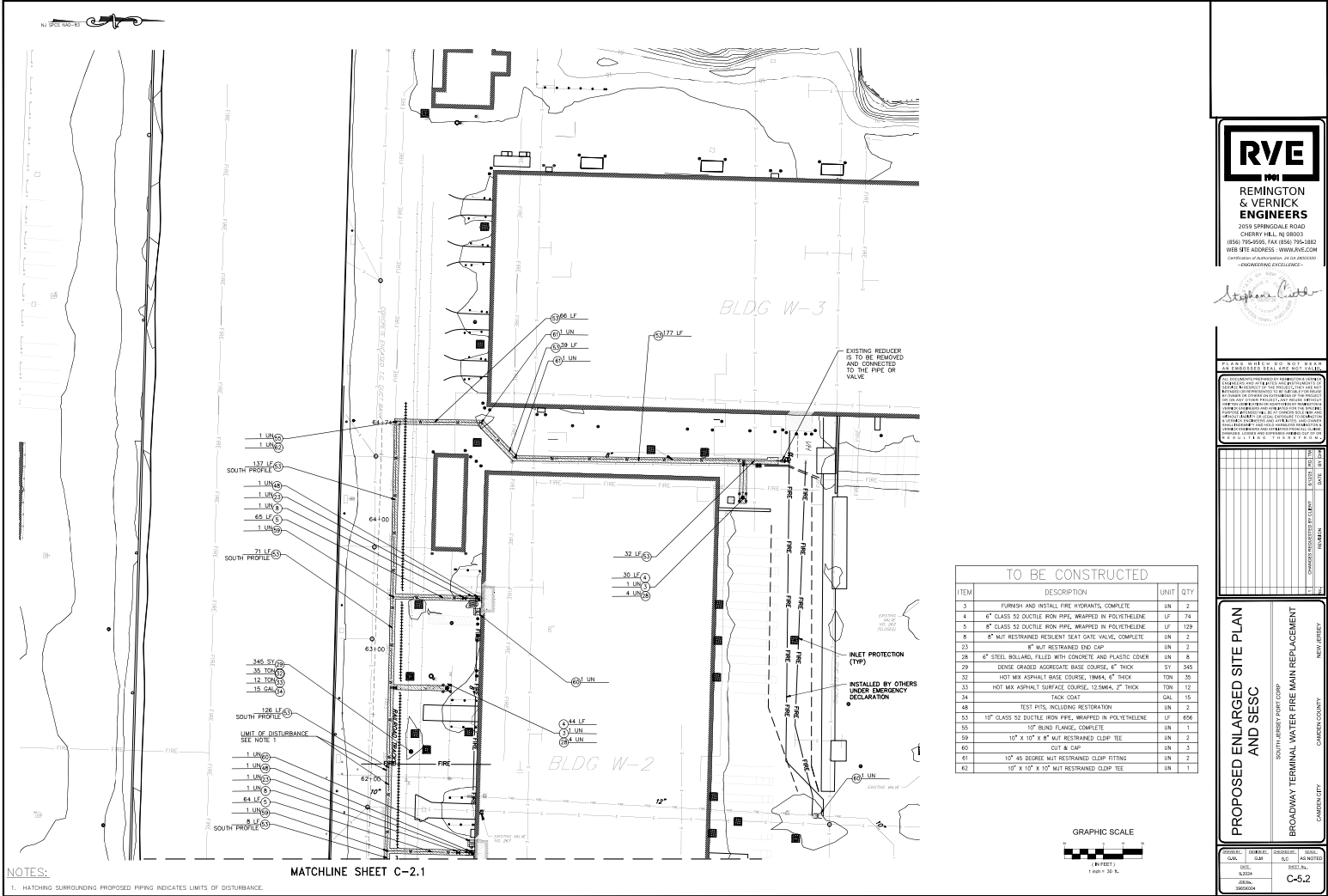
RESPECTFULLY SUBMITTED

NO.	DATE	REVISION
1	10/1/15	ISSUED FOR PERMIT
2	10/1/15	CHANGES REQUESTED BY CLIENT
3	10/1/15	REVISION

PROPOSED OVERALL SITE PLAN AND SESC
COUNTY: CAMDEN COUNTY
CITY: CAMDEN
PROJECT: BROADWAY TERMINAL WATER FIRE MAIN REPLACEMENT
NEW JERSEY

DESIGNED BY	CH	CHECKED BY	EC	DATE	10/1/15
DRAWN BY	EC	SCALE	AS NOTED		
DATE	10/1/15				

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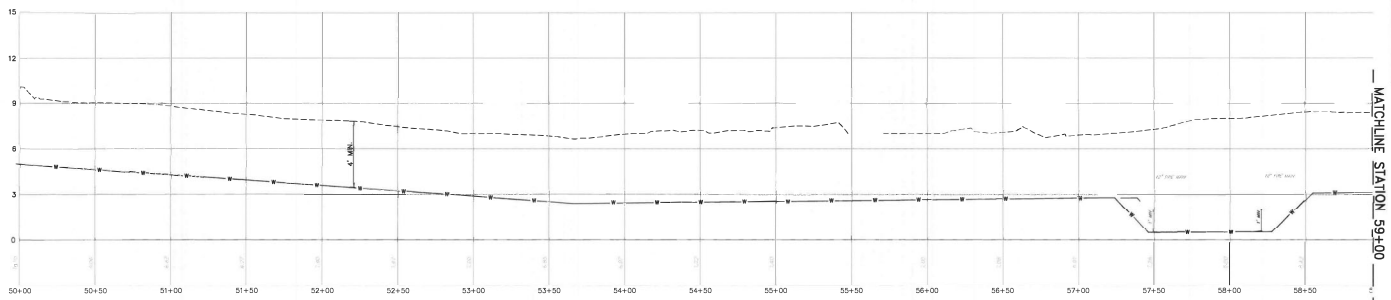
RVE
1991
REMINGTON & VERNICK ENGINEERS
2055 SPRINGDALE ROAD
CHERRY HILL, NJ 08003
(609) 795-0995, FAX (609) 795-0880
WEB SITE ADDRESS: WWW.RVE.COM
Certification of Authorization: 04-00000000
Professional Engineer
Stephan C. Rye

NO.	DATE	DESCRIPTION
1	10/1/01	PRELIMINARY
2	10/1/01	REVISION
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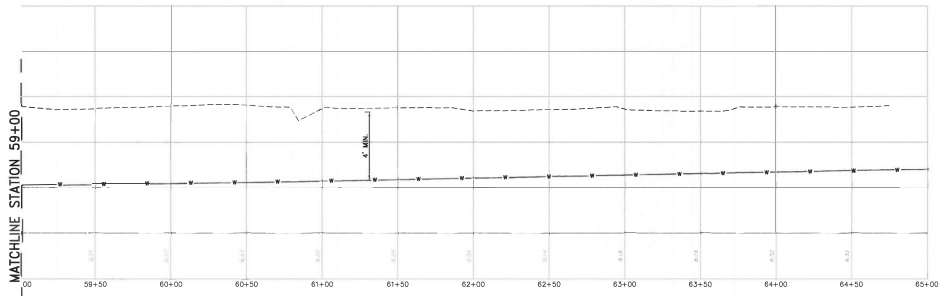
PROPOSED ENLARGED SITE PLAN AND SECC
SOUTH LEBANON FIRE DEPT
BROADWAY TERMINAL WATER FIRE MAIN REPLACEMENT
CAMDEN COUNTY
NEW JERSEY

DESIGNED BY	DATE	DESIGNED BY	DATE
SKETCHED BY	DATE	SKETCHED BY	DATE
CHECKED BY	DATE	CHECKED BY	DATE
APPROVED BY	DATE	APPROVED BY	DATE

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PROFILE PIER 5
SCALE: 1"=1' VERT.
SCALE: 1"=30' HORIZ.



PROFILE PIER 5
SCALE: 1"=1' VERT.
SCALE: 1"=30' HORIZ.



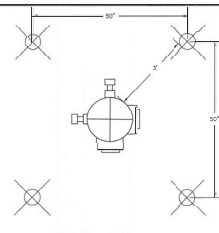
DATE: 4/22/2024
 BY: STEPHANIE CUTLER
 NJ PROFESSIONAL ENGINEER LIC. NO. 47138

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PROFILE PIER 5
 SOUTH JERSEY WATER CO.
 BROADWAY TERMINAL WATER MAIN REPLACEMENT
 CAMDEN COUNTY
 CAMDEN CITY
 NEW JERSEY

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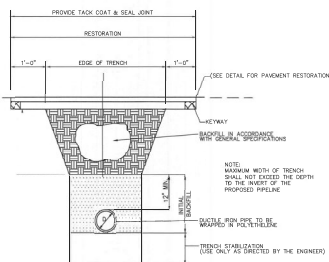
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PAVEMENT RESTORATION

PIPE BOLLARD PLAN VIEW

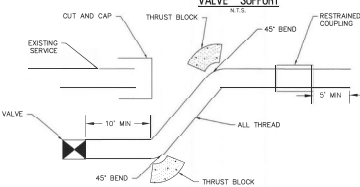
1. WHEN DISTANCES BETWEEN VALVE AND HYDRANT EXCEED TEN LINEAR FEET (10') ALL THREAD RODS ARE NOT REQUIRED.



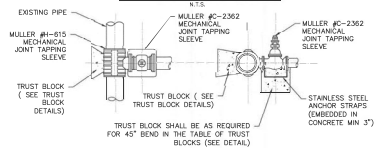
ROADWAY TRENCH DETAIL D.I. PIPE

SIZE	T	W	L
6"	8"	16"	16"
8"	8"	18"	18"
12"	10"	20"	20"
16"	12"	26"	26"
20"	14"	38"	38"

VALVE SUPPORT



VALVE HOUSE CONNECTION DETAIL

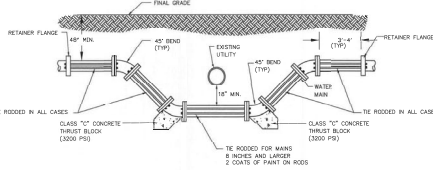


NOTES:

1. TAPPED CONNECTIONS SHALL BE MADE ONLY IN THE PRESENCE OF WATER DEPARTMENT EMPLOYEES OR THEIR DESIGNATED REPRESENTATIVE.
2. CONCRETE THRUST BLOCK UNDER VALVES SHALL HAVE A SOIL BEARING AREA EQUAL TO THAT OF A 45° ELBOW.
3. CONCRETE THRUST BLOCK FOR TAPPING SLEEVE SHALL HAVE A SOIL BEARING AREA EQUAL TO THAT OF A TEE CONNECTION.

TAPPING SLEEVE AND VALVE DETAIL

N. T. S.



WATER MAIN OFF-SET DETAIL

MINIMUM SIZE OF CONCRETE THRUST BLOCKS															
# OF TEES & CHAINS	50T RINGS			100T RINGS			22-1/2" RINGS			22-1/2" RINGS			22-1/2" RINGS		
	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
4"	1'-0"	6"	1'-0"	1'-3"	6"	1'-3"	1'-3"	6"	1'-3"	1'-0"	6"	1'-0"			
6"	1'-6"	8"	1'-6"	1'-9"	8"	1'-9"	1'-6"	8"	1'-6"	1'-3"	8"	1'-3"			
8"	2'-0"	8"	1'-9"	2'-6"	8"	2'-0"	1'-6"	8"	1'-3"	1'-6"	8"	1'-3"			
10"	2'-6"	8"	2'-0"	3'-0"	10"	2'-6"	2'-0"	10"	2'-6"	1'-9"	10"	1'-9"			
12"	3'-0"	10"	2'-9"	3'-6"	12"	3'-6"	2'-9"	3'-0"	12"	2'-9"	12"	2'-9"			
14"	3'-6"	10"	3'-0"	4'-0"	14"	3'-6"	3'-0"	3'-6"	14"	3'-0"	3'-6"	3'-0"			
W/TEE	3'-0"	15"	4'-0"	3'-6"	15"	4'-6"	4'-6"	15"	3'-3"	4'-6"	15"	4'-6"			

TEES & CHAINS		TEES & CHAINS		TEES & CHAINS		TEES & CHAINS		TEES & CHAINS	
A	B	A	B	A	B	A	B	A	B

TEES & CHAINS		TEES & CHAINS		TEES & CHAINS		TEES & CHAINS		TEES & CHAINS	
A	B	A	B	A	B	A	B	A	B

TEES & CHAINS		TEES & CHAINS		TEES & CHAINS		TEES & CHAINS		TEES & CHAINS	
A	B	A	B	A	B	A	B	A	B

TEES & CHAINS		TEES & CHAINS		TEES & CHAINS		TEES & CHAINS		TEES & CHAINS	
A	B	A	B	A	B	A	B	A	B

TEES & CHAINS		TEES & CHAINS		TEES & CHAINS		TEES & CHAINS		TEES & CHAINS	
A	B	A	B	A	B	A	B	A	B

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A	B	A	B	A	B	A	B	A	B

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A	B	A	B	A	B	A	B	A	B

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A	B	A	B	A	B	A	B	A	B

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1. THRUST BLOCKS TO BE USED FOR WATER MAIN AND FORCE MAINS AT ALL BENDS, TEES, REDUCERS AND PLUGS.
2. BEARING AREAS FOR THRUST BLOCKS ARE BASED ON THE UNDISTURBED SOIL WITH BEARING CAPACITY OF 2000 POUNDS PER SQ. FT. FOR OTHER AREAS OF LESS BEARING CAPACITY, THE AREAS SHALL BE ADJUSTED ACCORDINGLY, (FIG. 14, ASCE "PIPELINE DESIGN FOR WATER AND WASTEWATER, 1973").
3. ALL CONCRETE FOR THRUST BLOCKS SHALL BE 3000 PSI COMPRESSIVE STRENGTH WITHIN 28 DAYS.
4. THE THRUST BLOCKS SHALL BE POURED FROM FITTING SUCH THAT THEY BEAR ON THE UNDISTURBED WALL OF THE TRENCH.
5. THE TABULATED CONTACT BEARING AREAS LISTED ARE FOR HORIZONTAL AND DOWNWARD THRUST ONLY AND ARE NOT APPLICABLE FOR UPWARD THRUST.

THRUST BLOCK DETAIL FOR SYSTEMS AT 150 PSI TEST PRESSURE OR LESS

N.T.S.