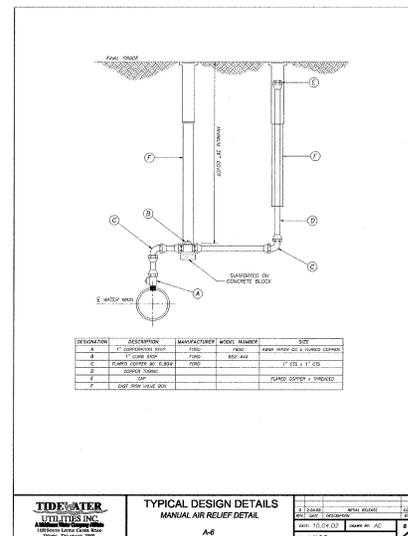
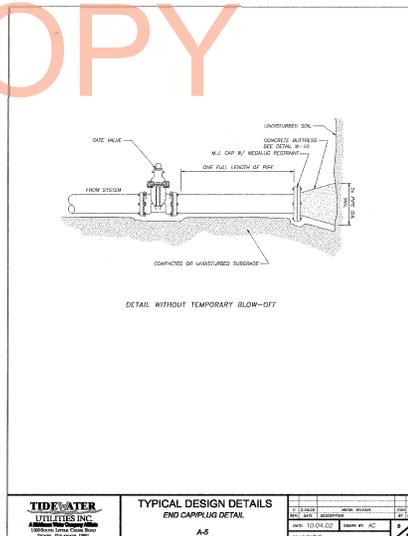
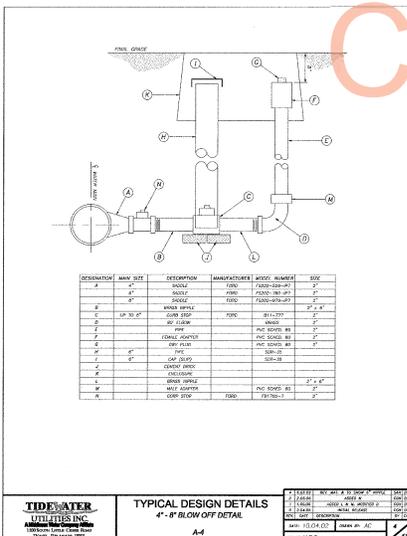
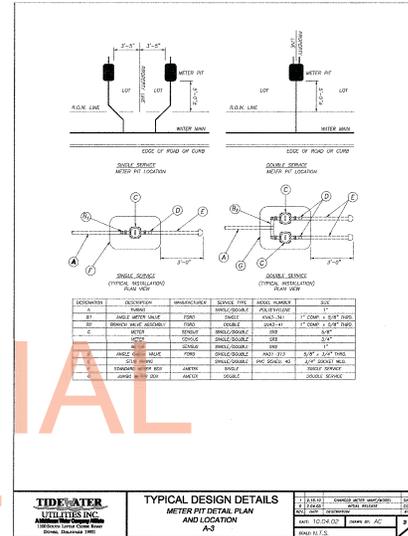
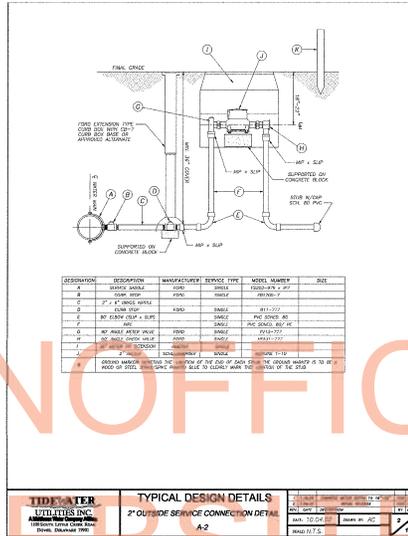
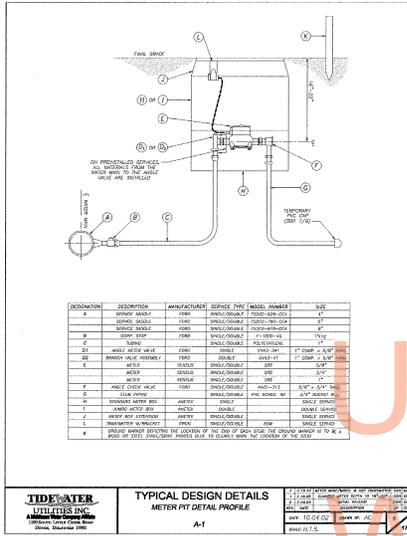


CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHEETS
T20041121D	SUSSEX	SEE TITLE SHEET	562	589

**SR 26, ATLANTIC AVENUE
FROM CLARKSVILLE TO
ASSAWOMAN CANAL**

REVISIONS

WR 9 OF WR 11

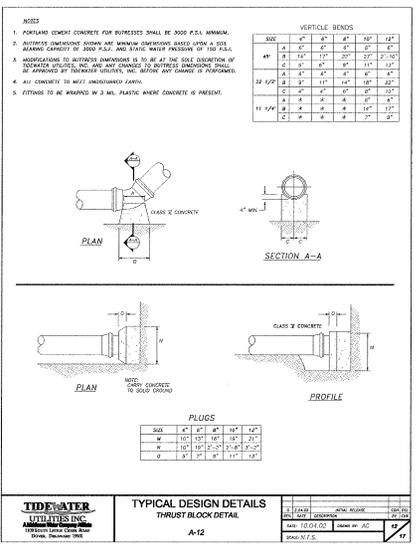
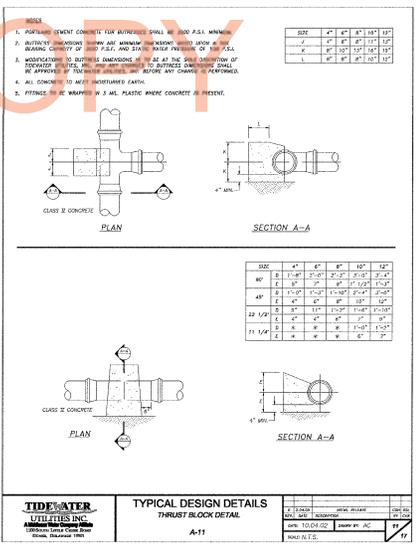
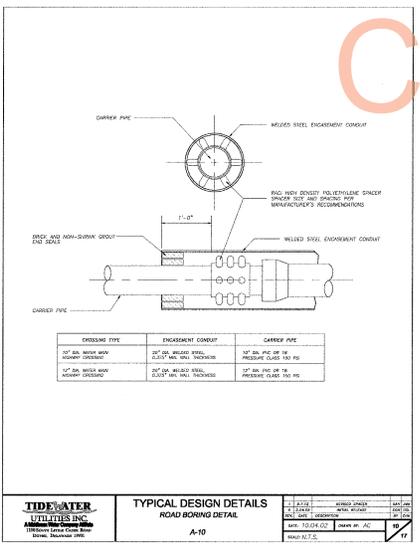
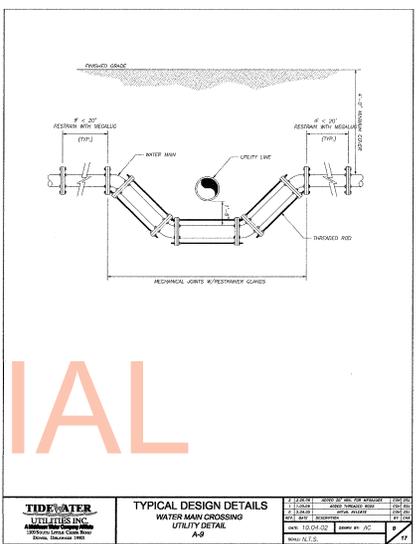
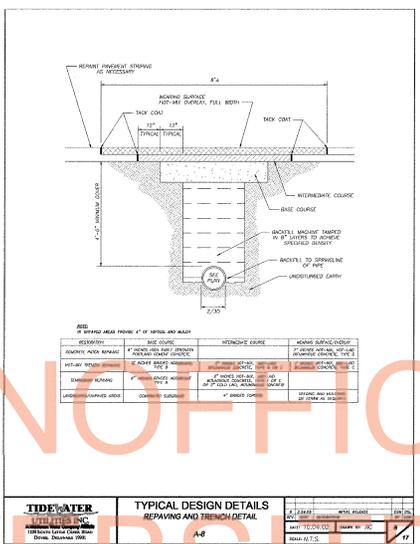
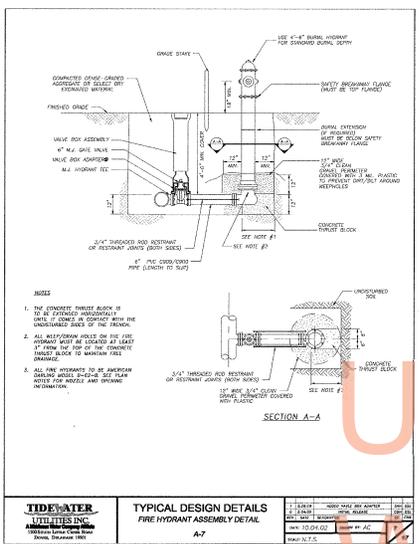


PREL. TRACKING DESIGN CHKD.

J. Smith

**SR 26, ATLANTIC AVENUE
FROM CLARKSVILLE TO
ASSAWOMAN CANAL**

REVISIONS



PREL. TRACING DESIGN CHECK

[Handwritten Signature]

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CONTRACT	COUNTY	P.A.P. NO.	SHEET NO.	TOTAL SHEETS
T200411210	SUSSEX	SEE TITLE SHEET	584	589

**SR 26, ATLANTIC AVENUE
FROM CLARKSVILLE TO
ASSAWOMAN CANAL**

REVISIONS

WR 11 OF WR 11

**TYPICAL DESIGN DETAILS
BACKFLOW PREVENTER INSTALLATION
SCHEMATIC**
A-13

DATE	BY	CHKD.	APP.
12/10/12	DAVID M. HAYES	DAVID M. HAYES	
DATE	BY	CHKD.	APP.
12/10/12	DAVID M. HAYES	DAVID M. HAYES	

**TYPICAL DESIGN DETAILS
FIRE HYDRANT BLOCK DETAILS**
A-14

DATE	BY	CHKD.	APP.
12/10/12	DAVID M. HAYES	DAVID M. HAYES	
DATE	BY	CHKD.	APP.
12/10/12	DAVID M. HAYES	DAVID M. HAYES	

**TYPICAL DESIGN DETAILS
PRE-INSTALL SERVICE DETAIL PROFILE**
A-15

DESCRIPTION	QUANTITY	MANUFACTURER	SERVICE TYPE	DATE
4" FIRE SERVICE	1	AMERICAN	FIRE SERVICE	12/10/12
2" DOMESTIC SERVICE	1	AMERICAN	DOMESTIC SERVICE	12/10/12
3" DOMESTIC SERVICE	1	AMERICAN	DOMESTIC SERVICE	12/10/12
4" FIRE SERVICE VALVE	1	AMERICAN	FIRE SERVICE VALVE	12/10/12
2" DOMESTIC CURB STOP	1	AMERICAN	DOMESTIC CURB STOP	12/10/12
3" DOMESTIC TAP AND VALVE	1	AMERICAN	DOMESTIC TAP AND VALVE	12/10/12

**TYPICAL DESIGN DETAILS
TRACER WIRE & VALVE BOX DETAIL**
A-16

DATE	BY	CHKD.	APP.
12/10/12	DAVID M. HAYES	DAVID M. HAYES	
DATE	BY	CHKD.	APP.
12/10/12	DAVID M. HAYES	DAVID M. HAYES	

**TYPICAL DESIGN DETAILS
LARGE COMMERCIAL SERVICE
FIRE & DOMESTIC**
A-17

DATE	BY	CHKD.	APP.
12/10/12	DAVID M. HAYES	DAVID M. HAYES	
DATE	BY	CHKD.	APP.
12/10/12	DAVID M. HAYES	DAVID M. HAYES	

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PREL. TRACING DESIGN CHKD. DESIGN

DAVID M. HAYES

GENERAL NOTES - UTILITY DRAWINGS

1. THE FOLLOWING ARE GENERAL CONSTRUCTION CONTRACT NUMBERS FOR THIS PROJECT:

DELDOT SOUTH CONSTRUCTION: MR. BRAD SABORIO	302-853-1331
SUSSEX CONSERVATION DISTRICT	302-656-2105
SUSSEX CO. UTILITY CONSTRUCTION DIVISION: MR. BRAD HAWKES	302-855-7717
ELECTRIC (DELAWARE ELECTRIC): MR. DAVID SHAPLEY	302-349-3142
TELEPHONE (VERIZON): MR. GEORGE ZANG	302-422-1238
TELEPHONE (VERIZON) - EMERGENCY REPAIRS	1-800-275-2355
CATV (MEDIA COM): MR. JOE LONGSTELLOW	302-732-6800
MISS UTILITY OF CENTRAL DELAWARE	1-800-282-8555

- ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE FROM THE BEST RECORDS AVAILABLE AND ARE FOR THE CONTRACTOR'S CONVENIENCE. THERE IS NO GUARANTEE AS TO THEIR ACCURACY IN PLAN OR PROFILE. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY, TO HIS OWN SATISFACTION, THE LOCATION AND DEPTH OF UNDERGROUND UTILITIES BEFORE LAYING ANY PIPE AND TO PROTECT ALL EXISTING UTILITIES AND STORM DRAINS DURING CONSTRUCTION. THIS SHALL INCLUDE CONTACTING MISS UTILITY OF CENTRAL DELAWARE FOR EXISTING UTILITY LOCATES.
- THE CONTRACTOR SHALL LOCATE EXISTING UTILITIES BY TEST PIT. TEST PITS SHALL BE PERFORMED IN ADVANCE OF CONSTRUCTION OPERATIONS AND SHALL BE PAID FOR UNDER ITEM 20800.
- BASE MAPS SHOWING TOPOGRAPHY, UTILITIES AND GROUND PROFILES ARE BASED UPON AERIAL PHOTOGRAMMETRY BY AXIS GEOSPATIAL, LLC IN APRIL 2008 AUGMENTED BY FIELD SURVEYS.
- DASHED CONTOURS ON PLANS INDICATE POSSIBLE DECREASED ACCURACY OF AERIAL TOPOGRAPHY DUE TO HEAVY VEGETATION. LOCATIONS OF FEATURES WITHIN TREADED AREAS ARE APPROXIMATE.
- IN PROFILE, ALL PIPE ELEVATIONS ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED.
- WHERE NOT SHOWN TO BE IMPROVED, THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO THEIR ORIGINAL CONDITION PRIOR TO SUBSTANTIAL COMPLETION.
- ALL RELOCATED FITTINGS AND 24" AND 10" FORCE MAIN SHALL BE RESTRAINED DIP WITH CONCRETE BUTTRESSES (AND ANCHORS ON UPPER VERTICAL BENDS). SEE THE DETAIL SHEET. ALL CONNECTIONS TO EXISTING FORCEMAINS SHALL BE MADE WITH RESTRAINED SOLID SLEEVES.
- CLEAR ALL WATER MAINS BY A MINIMUM OF 18" VERTICALLY. CLEAR ALL OTHER UTILITIES BY 12" MINIMUM. CLEAR ALL UTILITY POLES BY 2'-0" MINIMUM. (CLEARANCE SHALL MEAN BETWEEN OUTSIDE FACES OF PIPES, UTILITIES AND POLES.)
- ALL EXISTING FORCEMAINS THAT ARE BEING REPLACED OR PARALLELED SHALL EITHER BE REMOVED OR FILLED WITH FLOWABLE FILL AND CAPPED.

DELDTOT/ROAD WORK NOTES

- WORK SHALL BE PERFORMED IN A MANNER THAT WILL ENSURE THE LEAST PRACTICAL OBSTRUCTION TO TRAFFIC, CONSISTENT WITH SAFETY STANDARDS AND SHALL COMPLY WITH THE LATEST ADDITION OF THE MANUAL TITLED "DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS", HEREAFTER REFERRED TO AS THE TRAFFIC CONTROL MANUAL.
- ACCESS TO ALL COMMERCIAL AND RESIDENTIAL DEVELOPMENTS AND RESIDENTIAL DRIVEWAYS WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE UTILITY RELOCATIONS PERFORMED. ANY TEMPORARY CLOSURE OF A RESIDENTIAL DRIVEWAY SHALL BE COORDINATED WITH DELDOT AND/OR PROPERTY OWNER A MINIMUM OF ONE WEEK IN ADVANCE OF CLOSURE. ACCESS TO COMMERCIAL PROPERTIES AND RESIDENTIAL DEVELOPMENTS SHALL BE MAINTAINED UNDER DELDOT CERTIFIED FLAGGER CONTROL AS DIRECTED BY DELDOT. ALL STOPPE BYPASS CONNECTION SHALL BE LOCATED AWAY FROM ANY COMMERCIAL ENTRANCE.
- WITHIN DELDOT ROADWAYS, A MINIMUM OF 3-INCHES DEPTH OF TEMPORARY HOT MIX MUST BE INSTALLED FOR ALL DISTURBED HOT MIX ROADWAY AREAS AT THE END OF EACH WORK WEEK PRIOR TO END OF THE LAST WORKDAY. ALL MAINTENANCE OF TEMPORARY RESTORATION IS THE COMPLETE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE MAINTAINED TO A SMOOTH AND RIDGABLE CONDITION AT THE POSTED SPEED LIMIT FOR THE ROAD (OR 50 MPH IF THE ROAD'S SPEED LIMIT IS UNPOSTED). CONTRACTOR IS RESPONSIBLE FOR ADEQUATE SUBGRADE CONDITIONS UNDER TEMPORARY PAVING. CONTRACTOR MUST MAINTAIN SUFFICIENT QUANTITIES OF CRUSHER RUN OR COLD PATCH ON SITE AT ALL TIMES TO PERFORM PERIODIC MAINTENANCE REPAIRS AS NECESSARY PRIOR TO TEMPORARY AND PERMANENT HOTMIX INSTALLATION. UPON NOTIFICATION OF MAINTENANCE ISSUES, CONTRACTOR MUST RESPOND AND CORRECT WITHIN 2 HOURS OF NOTIFICATION BY EITHER DELDOT OR THE ENGINEER. PAYMENT FOR HOTMIX TO MAINTAIN ENTRANCES TO BE MADE UNDER ITEM 401821 GABC PAYMENT UNDER 302005.
- ALL CONSTRUCTION PHASING, MAINTENANCE OF TRAFFIC, AND ROAD DETOURS SHALL BE IN ACCORDANCE WITH DELDOT REQUIREMENTS ESTABLISHED FOR THE DELDOT CONTRACT. SEE DELDOT SHEET 9 FOR GENERAL UTILITY NOTES.
- SEE DELDOT SHEET 155 FOR ROADWAY PAVEMENT RESTORATION DETAILS.

BY-PASS PUMPING NOTES

- SEE SPECIFICATION SECTION 02732 FOR BYPASS OPERATION REQUIREMENTS. SPECIFIC NOTES ARE AS FOLLOWS:
 - BYPASS OPERATIONS ARE REQUIRED FOR THE 24-INCH FORCEMAINS ONLY. THE 10-INCH FORCEMAIN IS NOT ACTIVE, BUT IS FOR EMERGENCY USE.
 - ALL BYPASS OPERATIONS WILL NOT BE ALLOWED DURING PEAK SEASON (MEMORIAL DAY THROUGH LABOR DAY).
 - THERE ARE MAXIMUM ALLOWABLE HYDRAULIC LOSSES FOR THE BYPASS SYSTEM, SEE SPECIFICATION SECTION 02732 FOR DETAILS.
 - ALL BYPASS OPERATIONS SHALL BE STRICTLY COORDINATED WITH THE SUSSEX COUNTY ENGINEERING DEPARTMENT.
- THE FOLLOWING IS THE SUGGESTED SEQUENCE OF CONSTRUCTION.
 - SUBMIT SHOP DRAWINGS FOR APPROVAL TO DETAIL BYPASS SYSTEM AND TO VERIFY PROPOSED HEADLOSSES ARE WITHIN ACCEPTABLE LIMITS AS DEFINED BY SPECIFICATION SECTION 02732. EACH INDIVIDUAL SECTION OF 24" RELOCATED WILL REQUIRE AN INDIVIDUALLY SEQUENCED BYPASS OPERATION UNLESS THE CONTRACTOR CAN DEMONSTRATE AND SUBMIT FOR APPROVAL THAT HYDRAULIC LOSSES FOR THE BYPASS SYSTEM ARE WITHIN SPECIFIED LIMITS.
 - CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AS REQUIRED TO CONFIRM PIPE LOCATION, DEPTH AND MATERIAL.
 - INSTALL BYPASS CONNECTIONS ON BOTH SIDES OF RELOCATION NUMBER 8 INCLUDING ALL REQUIRED LINE STOP FITTINGS, VALVES, SADDLES, TEMPORARY BUTTRESSES, ETC. SEE SPECIFICATION SECTION 02732-3.03 FOR A DETAILED DESCRIPTION OF THE LINE STOP PROCEDURE.
 - INSTALL NECESSARY TEMPORARY BYPASS PIPING AROUND WORK AREA (I.E. FROM LINE STOP TO LINE STOP). ALL TEMPORARY BYPASS PIPING SHALL BE BURIED OR OTHERWISE PROTECTED.
 - COORDINATE WITH SUSSEX COUNTY ENGINEERING DEPARTMENT TO TEMPORARILY SHUT OFF FLOW TO THE FORCEMAIN TO ALLOW THE PLUGGING HEAD TO BE INSERTED.
 - PERFORM NECESSARY FORCEMAIN RELOCATION, WITHOUT MAKING FINAL RECONNECTIONS.
 - PRESSURE TEST NEW FORCEMAIN.
 - CONNECT NEW FORCEMAIN TO EXISTING FORCEMAIN.
 - REMOVE LINE STOP PLUGGING HEADS, CLOSE TEMPORARY VALVE AND REMOVE STOP MACHINE AND TEMPORARY BYPASS PIPING.
 - INSTALL COMPLETION MACHINE AND INSERT COMPLETION PLUG.
 - REPEAT SEQUENCE OF CONSTRUCTION STEPS B) THROUGH J) FOR RELOCATIONS 7, 6, 4, 3, 2, AND 1.

SEWER RELOCATION PLANS

CONTRACT	COUNTY	PAID NO.	SHEET NO.	TOTAL SHEETS
T200-4620	SUSSEX	SEE TITLE SHEET	565	589

**SR 26, ATLANTIC AVENUE
FROM CLARKSVILLE TO
ASSAWOMAN CANAL**

REVISIONS

NO.	DATE	DESCRIPTION

LEGEND - UTILITY DRAWINGS

	RIGHT OF WAY LINE		AIR RELEASE/VACUUM VALVE
	AIR RELEASE/VACUUM VALVE		POWER POLE
	SUSSEX COUNTY SEWER FORCE MAIN		SUSSEX COUNTY SEWER FORCE MAIN
	OVERHEAD UTILITY		OH

FOR ALL OTHER LEGEND ITEMS NOT NOTED ABOVE, SEE SHEET NO. 6 (LEGEND) OF THE DELDOT CONTRACT DOCUMENTS

LIST OF UTILITY DRAWINGS

SHEET	DRAWING	TITLE
1	G00.00	GENERAL NOTES AND LEGEND
2	C00.00	UTILITY RELOCATION KEY PLAN
3	C01.01	FORCE MAIN RELOCATION 1: PLAN AND PROFILE
4	C01.02	FORCE MAIN RELOCATIONS 2 AND 3: PLAN AND PROFILES
5	C01.03	FORCE MAIN RELOCATIONS 4 AND 5: PLAN AND PROFILES
6	C01.04	FORCE MAIN RELOCATIONS 6 AND 7: PLAN AND PROFILES
7	C01.05	FORCE MAIN RELOCATIONS 8, 9, AND 10: PLAN AND PROFILES
8	C02.01	UTILITY DETAILS

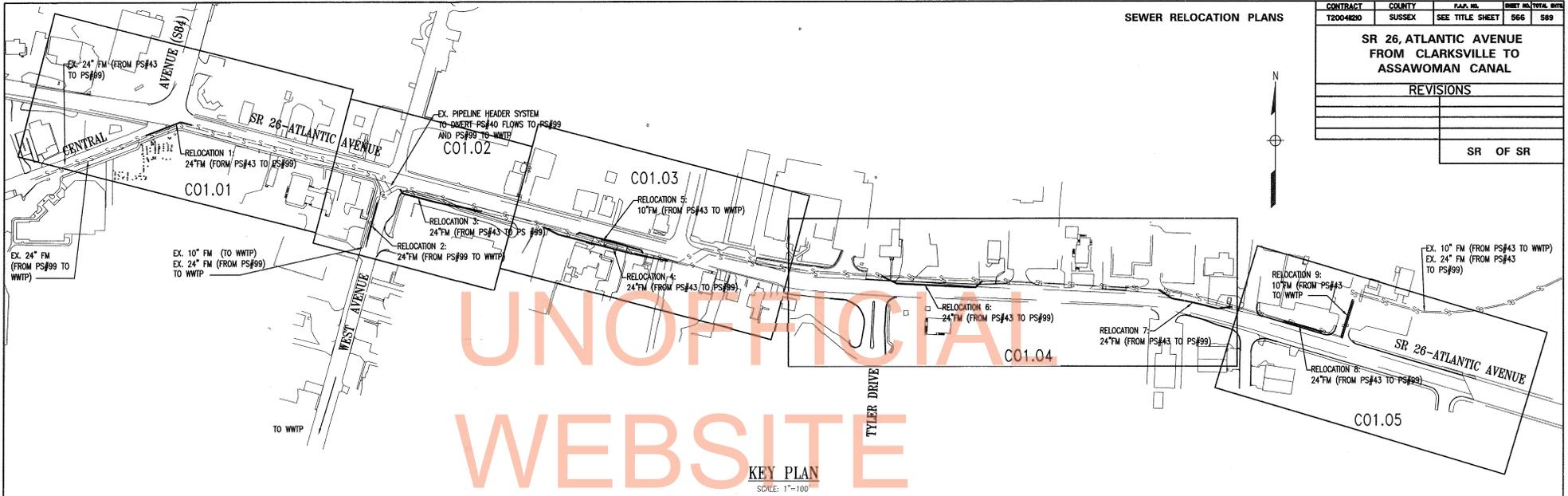
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GENERAL NOTES AND LEGEND	DRAWING G00.00	SHEET 1
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SEWER RELOCATION PLANS

CONTRACT T2004820	COUNTY SUSSEX	P.A.P. NO. SEE TITLE SHEET	SHEET NO. TOTAL SHEETS 566 589
SR 26, ATLANTIC AVENUE FROM CLARKSVILLE TO ASSAWOMAN CANAL			
REVISIONS			
SR OF SR			

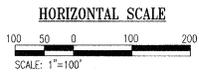


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KEY PLAN
SCALE: 1"=100'

SR 26 - TEST PIT INFORMATION

TEST HOLE	ACTUAL SIZE MATERIAL TYPE OF UTILITY	OWNER	UTILITY CONDITION		DIP TYPE	DEPTH TO UTIL. TOP	DEPTH TO UTIL. BOTTOM	WIDTH	NORTHING	EASTING	SURFACE / DEPTH		GENERALIZED SOIL TYPE					
			GOOD	POOR							OTHER	ASPHALT	CONC.	SOIL	SELECT	FILL	ROCK	SAND
1	12\"/>																	



UTILITY RELOCATION KEY PLAN	DRAWING C00.00	SHEET 2
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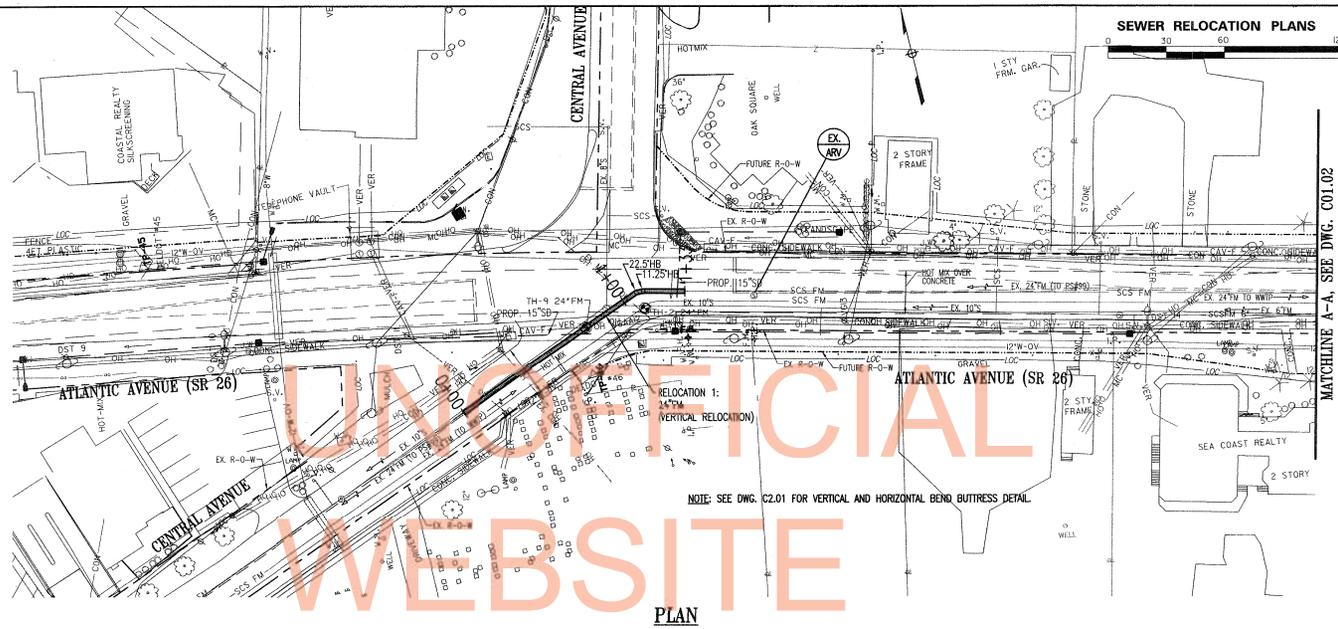
PREL. TRACING DESIGN CHKD.

CONTRACT	COUNTY	P.L.P. NO.	SHEET NO.	TOTAL SHEETS
T2004020	SUSSEX	SEE TITLE SHEET	567	589

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FROM CLARKSVILLE TO
ASSAWOMAN CANAL**

REVISIONS

SR OF SR

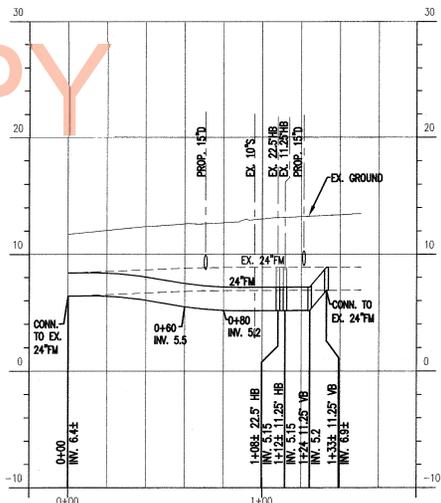


MATCHLINE A - SEE DWG. C01.02

NOTE: SEE DWG. C2.01 FOR VERTICAL AND HORIZONTAL BEND BUTTRISS DETAIL.

RELOCATION 1: 24"FM

PIPE STATION	NORTH	EAST	REMARKS
0+00	198,345.22±	749,272.06±	EX. 24"FM CONNECTION
1+08±	198,383.33±	749,373.15±	22.5' HB
1+21±	198,38.14±	749,376.82±	11.25' HB
1+33±	198,377.78±	749,397.46±	EX. 24"FM CONNECTION



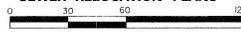
PROFILE - RELOCATION 1: 24"FM

PREL. TRACING DESIGN CHKD.



FORCE MAIN RELOCATION 1 PLAN AND PROFILE	DRAWING C01.01	SHEET 3
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SEWER RELOCATION PLANS



CONTRACT	COUNTY	P.A.P. NO.	SHEET NO.	TOTAL SHEETS
T2004B20	SUSSEX		568	589

SR 26, ATLANTIC AVENUE
FROM CLARKSVILLE TO
ASSAWOMAN CANAL

REVISIONS

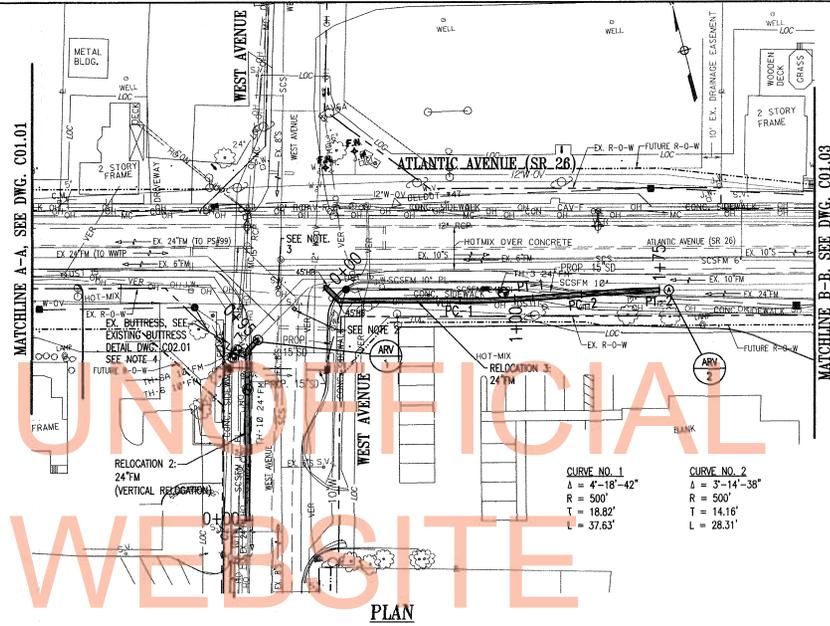
SR OF SR

ARV LOCATION

ARV NO.	NORTH	EAST	REMARKS
1	198,220.22±	749,812.96±	ON 24" FORCE MAIN
2	198,200.75±	750,023.77±	ON 24" FORCE MAIN

NOTE:

- SEE DWG. C2.01 FOR VERTICAL AND HORIZONTAL BEND BUTTRESS DETAIL.
- EXISTING VALVE IS NORMALLY CLOSED TO SEND FLOWS FROM PS#43 TO PS#99 RATHER THAN TO THE WWTP. VALVE BOX IS OFFSET FROM VALVE INSTALLED ON FORCE MAIN.
- EXISTING VALVE IS NORMALLY OPEN TO ALLOW FLOWS TO GO FROM PS#43 TO PS#99. VALVE BOX IS OFFSET FROM VALVE INSTALLED ON FORCE MAIN. BYPASS FOR RELOCATION #3 MUST BE INSTALLED ON 24" FM (TO PS#99).
- EXISTING BUTTRESS SHALL BE REMOVED AND REPLACED AS REQUIRED TO INSTALL NEW FORCE MAIN.

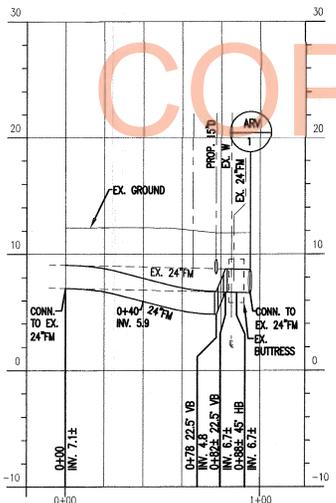


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WEBSITE

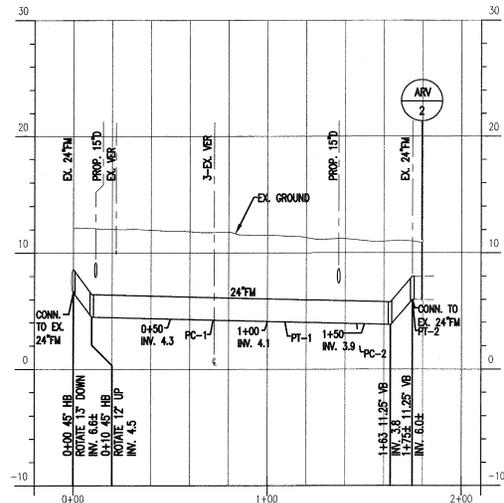
CURVE NO. 1	CURVE NO. 2
Δ = 4°-18'-42"	Δ = 3°-14'-38"
R = 500'	R = 500'
T = 18.82'	T = 14.16'
L = 37.63'	L = 28.31'

RELOCATION 2: 24"FM

PIPE STATION	NORTH	EAST	REMARKS
0+00	198,131.63±	749,784.19±	EX. 24"FM CONNECTION
0+82	198,210.63±	749,804.91±	22.5"VB
0+88	198,216.26±	749,806.39±	45"HB
0+95	198,220.22±	749,812.96±	EX. 24"FM CONNECTION & ARV



PROFILE - RELOCATION 2: 24"FM



PROFILE - RELOCATION 3: 24"FM

RELOCATION 3: 24"FM

PIPE STATION	NORTH	EAST	REMARKS
0+00	198,237.31±	749,853.53±	EX. 24"FM CONNECTION & 45"HB
0+10	198,230.66	749,872.84	45" HB
0+72	198,238.54	749,889.08	PC CURVE NO. 1
	198,208.02	749,937.22	PT CURVE NO. 1
1+09	198,196.93	749,958.43	PC CURVE NO. 1
1+46	198,198.07	749,991.71	PC CURVE NO. 2
	198,195.51	750,004.28	PT CURVE NO. 2
1+75±	198,195.35±	750,005.80±	EX. 24"FM CONNECTION, PT CURVE NO. 2 & 11.25"VB

FORCE MAIN RELOCATIONS 2 AND 3 PLAN AND PROFILES	DRAWING C01.02	SHEET 4
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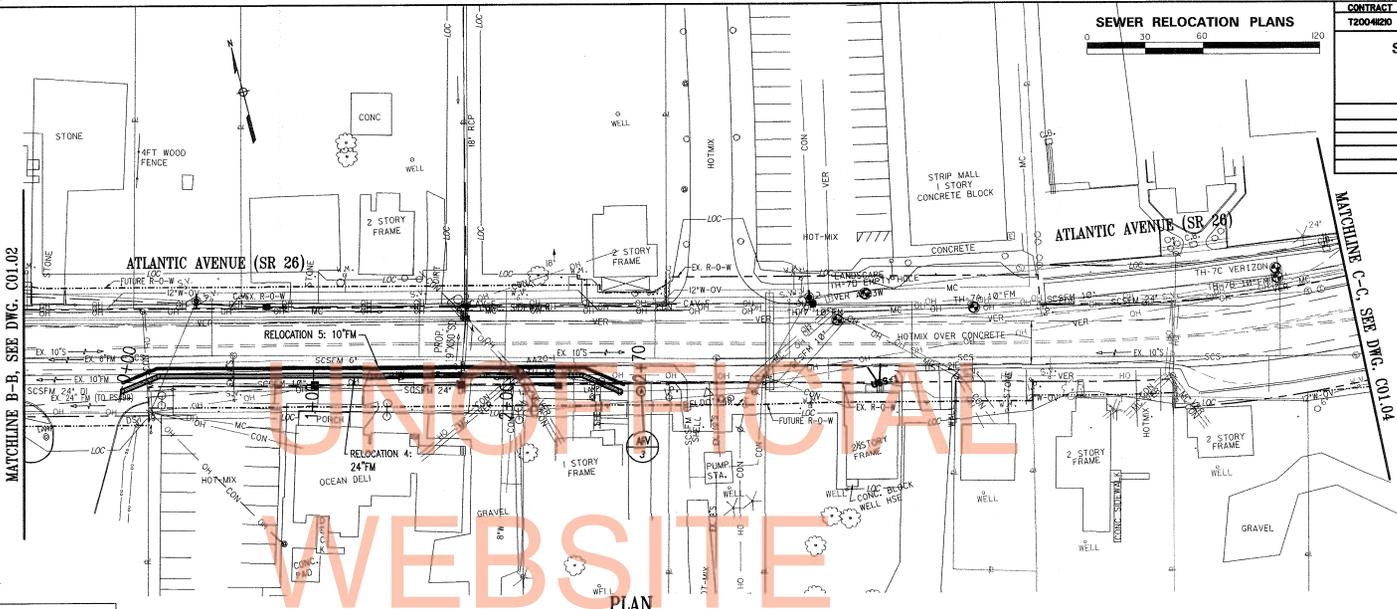
PREL. TRACING DESIGN CHKD.



DATE PLOTTED

CONTRACT	COUNTY	P.A.P. NO.	SHEET NO.	TOTAL SHEETS
T2004120	SUSSEX		569	589
SR 26, ATLANTIC AVENUE FROM CLARKSVILLE TO ASSAWOMAN CANAL				
REVISIONS				
SR OF SR				

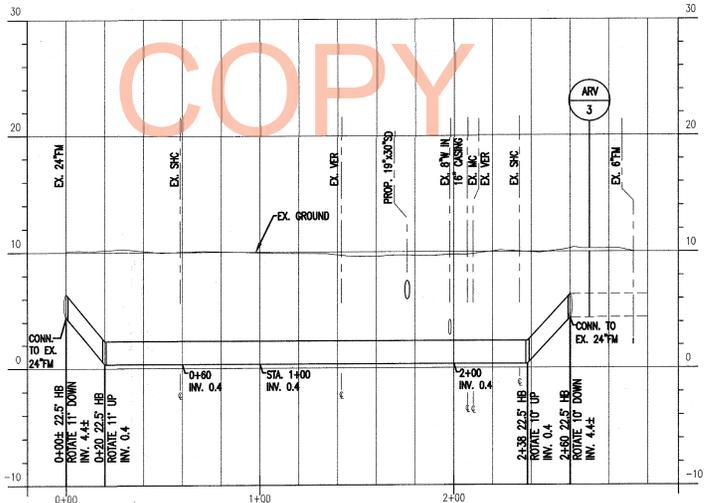
NOTES:
1. SEE DWG. C2.01 FOR VERTICAL AND HORIZONTAL BEND BUTTRESS DETAIL.



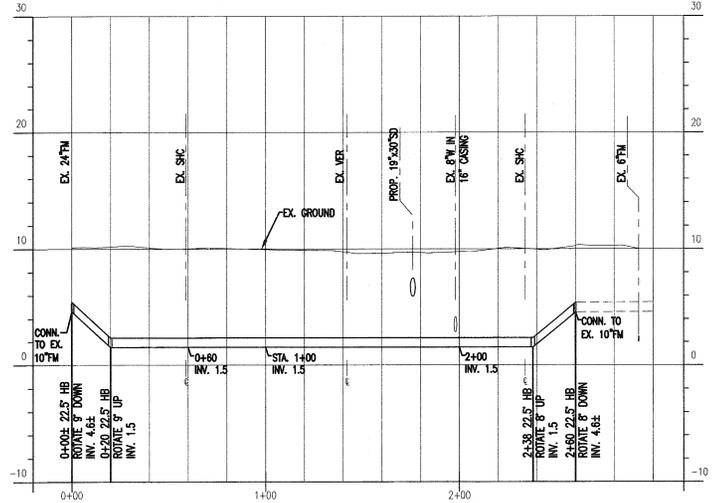
ARV LOCATION			
ARV NO.	NORTH	EAST	REMARKS
3	198,088.65±	750,403.82±	ON 24" FORCE MAIN

RELOCATION 4: 24" FM			
PIPE STATION	NORTH	EAST	REMARKS
0+00	198,158.06±	750,146.14±	EX. 24" FM CONNECTION & 22.5" HB
0+20	198,160.64	750,165.90	22.5" HB
2+38	198,104.34	750,378.74	22.5" HB
2+60±	198,091.08±	750,393.35±	EX. 24" FM CONNECTION & 22.5" HB

RELOCATION 5: 10" FM			
PIPE STATION	NORTH	EAST	REMARKS
0+00	198,162.26±	750,147.45±	EX. 10" FM CONNECTION & 22.5" HB
0+20	198,164.71	750,166.16	22.5" HB
2+38	198,108.00	750,378.56	22.5" HB
2+60±	198,094.12±	750,396.35±	EX. 10" FM CONNECTION & 22.5" HB



PROFILE - RELOCATION 4: 24" FM



PROFILE - RELOCATION 5: 10" FM

PREL. TRACING DESIGN CHKD.

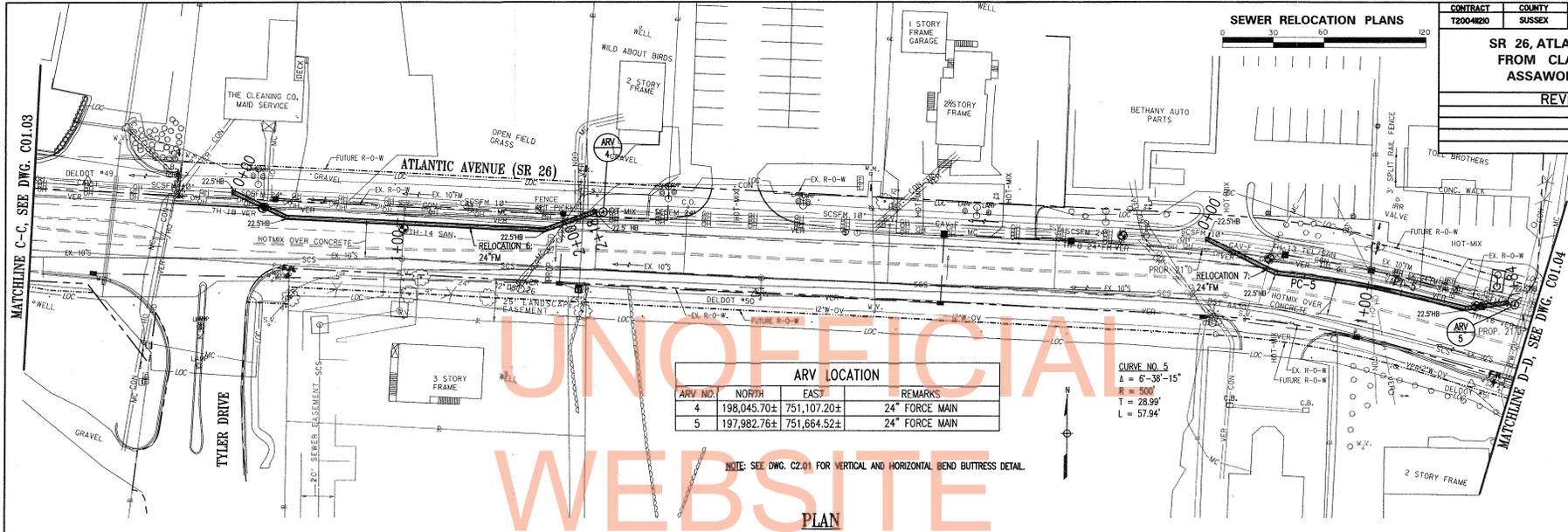


FORCE MAIN RELOCATIONS 4 AND 5 PLAN AND PROFILES	DRAWING C01.03	SHEET 5
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**SR 26, ATLANTIC AVENUE
FROM CLARKSVILLE TO
ASSAWOMAN CANAL**

REVISIONS

SR OF SR



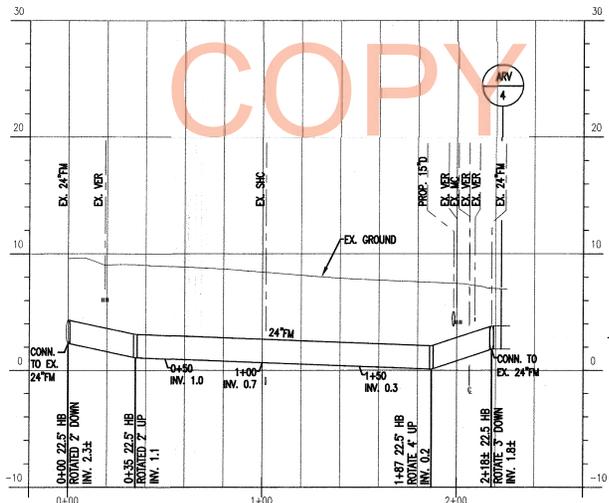
ARV LOCATION			
ARV NO.	NORTH	EAST	REMARKS
4	198,045.70±	751,107.20±	24" FORCE MAIN
5	197,982.76±	751,664.52±	24" FORCE MAIN

CURVE NO. 5
 $\Delta = 6^{\circ}38'15''$
 $R = 500'$
 $T = 28.99'$
 $L = 57.94'$

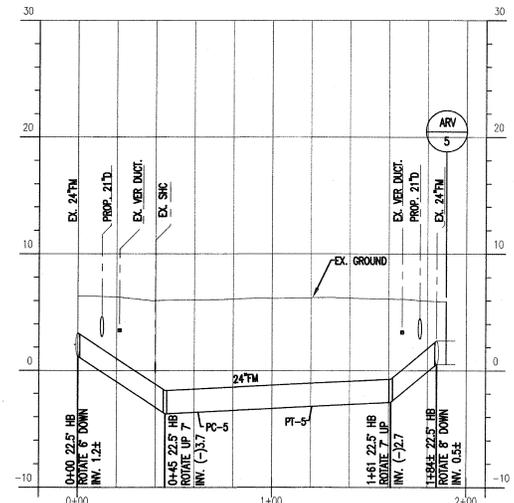
NOTE: SEE DWG. C2.01 FOR VERTICAL AND HORIZONTAL BEND BUTTRESS DETAIL.

PLAN

RELOCATION 6: 24" FM			
PIPE STATION	NORTH	EAST	REMARKS
0+00	198,062.51±	750,897.31±	EX. 24" FM CONNECTION & 22.5" HB
0+35	198,035.47	750,919.92	22.5" HB
1+87	198,024.70	751,072.38	22.5" HB
2+18±	198,037.36±	751,102.17±	EX. 24" FM CONNECTION & 22.5" HB



PROFILE - RELOCATION 6: 24" FM



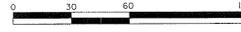
PROFILE - RELOCATION 7: 24" FM

RELOCATION 7: 24" FM			
PIPE STATION	NORTH	EAST	REMARKS
0+00	198,021.19±	751,463.38±	EX. 24" FM CONNECTION & 22.5" HB
0+45	198,001.18	751,503.69	22.5" HB
0+62	197,999.27	751,520.74	PC CURVE NO. 5
	197,996.03	751,549.55	PI CURVE NO. 5
1+20	197,989.49	751,577.80	PT CURVE NO. 5
1+61	197,980.54	751,616.46	22.5" HB
1+84±	197,983.82±	751,639.98±	EX. 24" FM CONNECTION & 22.5" HB

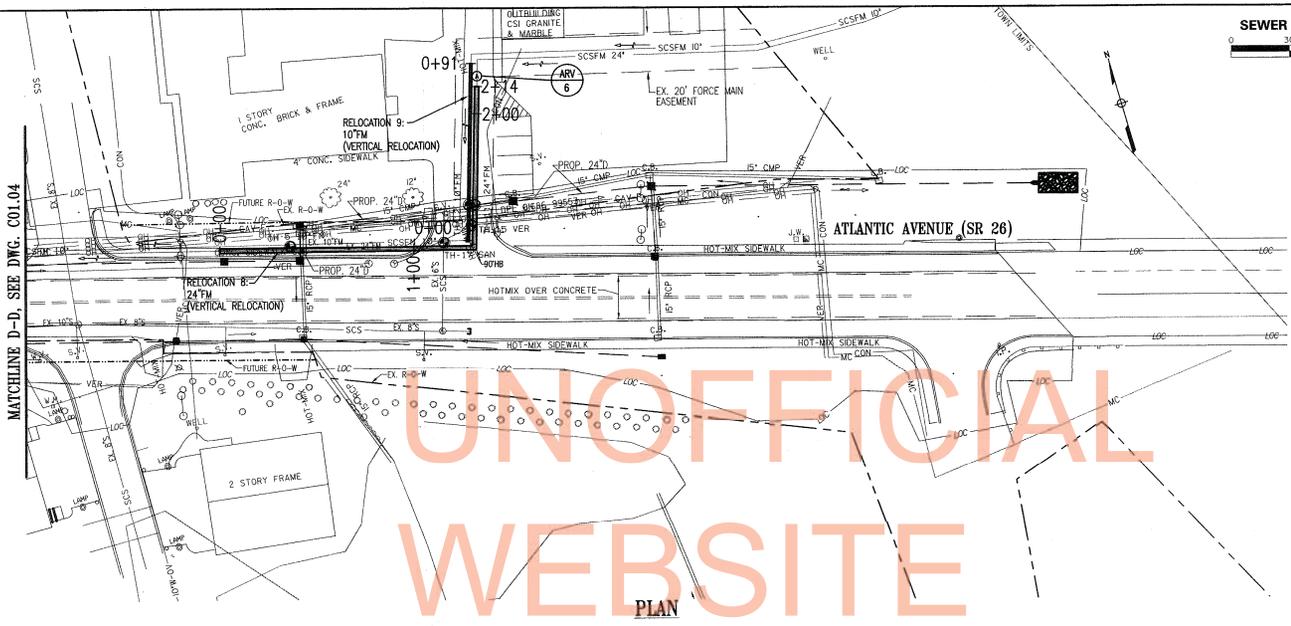
PREL. TRACING DESIGN CHKO.



SEWER RELOCATION PLANS



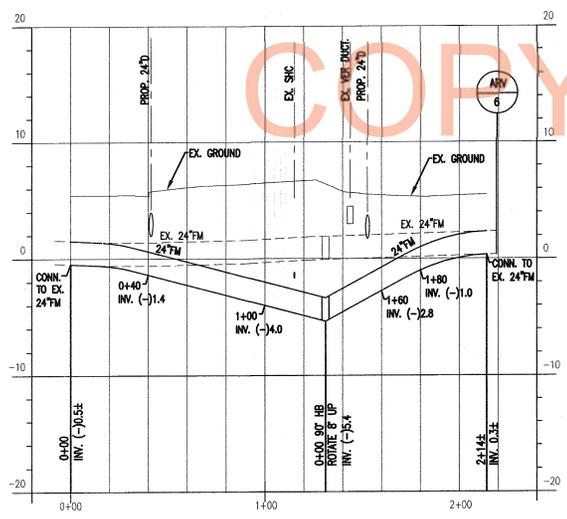
CONTRACT	COUNTY	P.L.P. NO.	SHEET NO.	TOTAL SHEETS
T2004R20	SUSSEX		571	589
SR 26, ATLANTIC AVENUE FROM CLARKVILLE TO ASSAWOMAN CANAL				
REVISIONS				
SR OF SR				



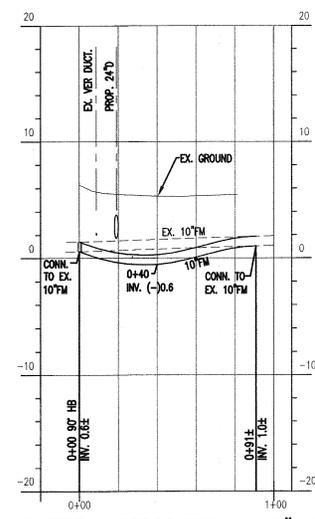
ARV LOCATION			
ARV NO.	NORTH	EAST	REMARKS
6	197,928.00±	751,839.57±	ON 24" FORCE MAIN
7	198,000.94±	751,905.60±	ON 24" FORCE MAIN

NOTE: SEE DWG. C2.01 FOR VERTICAL AND HORIZONTAL BEND BUTTRESS DETAIL.

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PROFILE - RELOCATION 8: 24"FM



PROFILE - RELOCATION 9: 10"FM

RELOCATION 8: 24" FM			
PIPE STATION	NORTH	EAST	REMARKS
0+00	197,957.97±	751,752.67±	EX. 24"FM CONNECTION
1+31	197,916.81	751,879.12	90° HB
2+14±	197,995.91±	751,904.06±	EX. 24"FM CONNECTION

RELOCATION 9: 10" FM			
PIPE STATION	NORTH	EAST	REMARKS
0+00	197,922.66±	751,876.84±	EX. 10"FM CONNECTION
0+91±	198,008.09±	751,904.59±	EX. 10"FM CONNECTION

FORCE MAIN RELOCATIONS 8 AND 9 PLAN AND PROFILES	DRAWING C01.05	SHEET 7
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PREL. TRACING DESIGN CHKD.



MILLVILLE SANITARY SEWER DISTRICT
SR 26 PHASE III EXPANSION

CONTRACT	COUNTY	P.A.P. NO.	SHEET NO.	TOTAL SHEETS
T2004820	SUSSEX	SEE TITLE SHEET	574	589

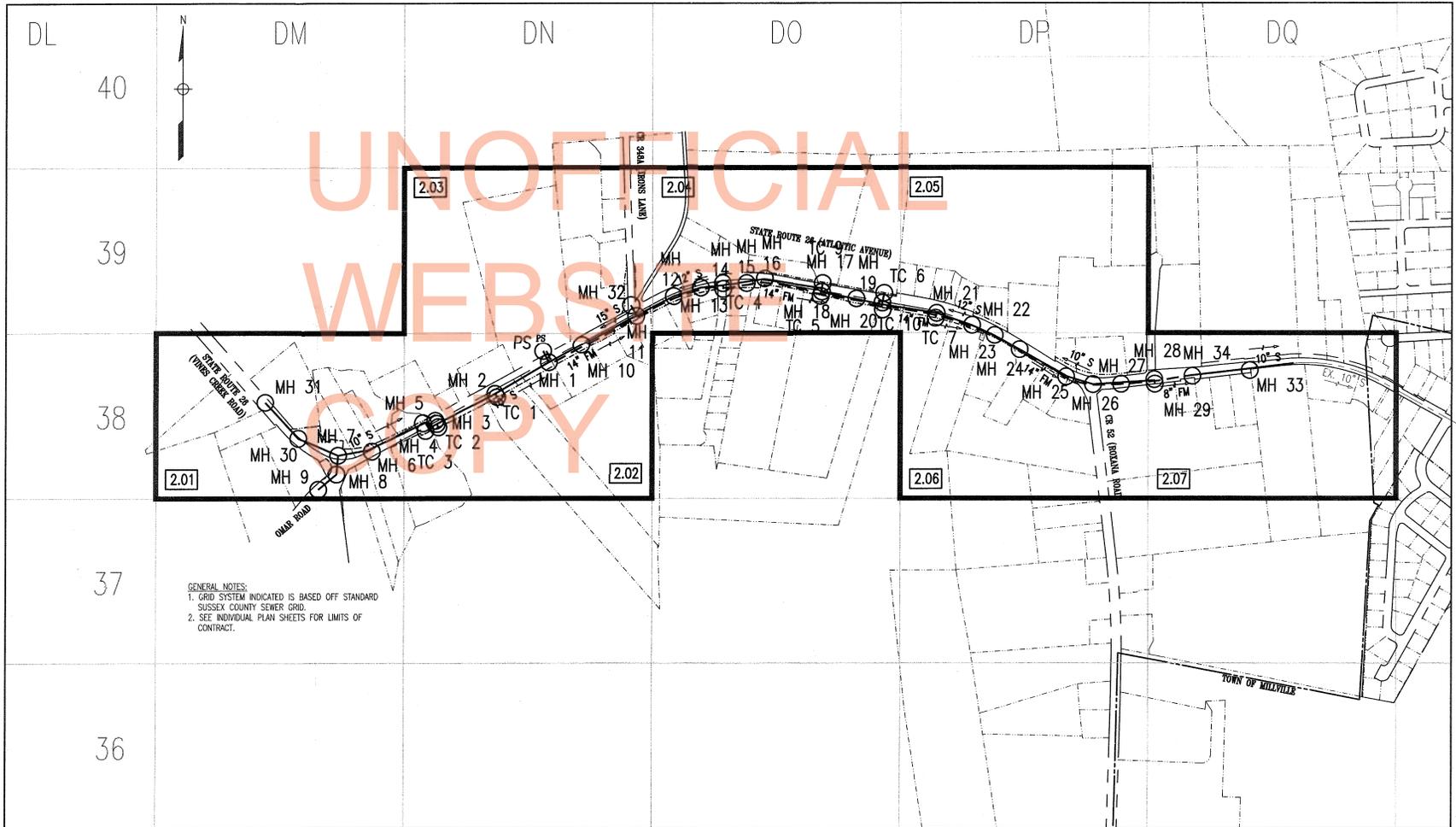
SR 26, ATLANTIC AVENUE
FROM CLARKSVILLE TO
ASSAWOMAN CANAL

REVISIONS

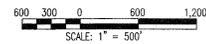
SR OF SR

NAME	NORTHING	EASTING
MH 1	200,820.10	734,374.98
MH 2	200,630.35	734,050.14
MH 3	200,447.13	733,699.38
MH 4	200,419.80	733,647.07
MH 5	200,457.06	733,627.55
MH 6	200,291.93	733,283.82
MH 7	200,253.63	733,103.14
MH 8	200,146.80	733,092.72
MH 9	200,054.43	732,982.97
MH 10	200,926.92	734,571.34
MH 11	201,105.75	734,899.05
MH 12	201,216.46	735,128.63
MH 13	201,278.70	735,329.64
MH 14	201,286.44	735,424.17
MH 15	201,298.07	735,564.64
MH 16	201,325.12	735,672.48
MH 17	201,268.74	736,024.44
MH 18	201,246.89	736,020.72
MH 19	201,208.94	736,236.17
MH 20	201,170.18	736,388.93
MH 21	201,110.77	736,717.60
MH 22	201,043.05	736,936.07
MH 23	200,983.31	737,069.55
MH 24	200,896.05	737,226.35
MH 25	200,734.36	737,501.89
MH 26	200,688.86	737,677.76
MH 27	200,690.78	737,835.11
MH 28	200,710.80	738,037.12
MH 29	200,690.15	738,039.73
MH 30	200,965.75	732,863.53
MH 31	200,625.73	732,639.09
MH 32	201,166.91	734,868.21
MH 33	200,779.08	738,587.24
MH 34	200,742.88	738,271.84
TC 1	200,609.98	734,060.87
TC 2	200,429.56	733,706.84
TC 3	200,404.36	733,653.66
TC 4	201,263.47	735,425.75
TC 5	201,227.14	736,017.57
TC 6	201,240.67	736,401.78
TC 7	201,088.63	736,712.46
TC 8	200,838.35	738,582.25
TC 9	201,306.04	736,031.11
TC 10	201,153.34	736,386.02
PS	200,888.59	734,340.63

GENERAL NOTES:
1. GRID SYSTEM INDICATED IS BASED OFF STANDARD SUSSEX COUNTY SEWER GRID.
2. SEE INDIVIDUAL PLAN SHEETS FOR LIMITS OF CONTRACT.



PREL. TRACING DESIGN CHKD.

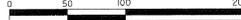


PROJECT KEY AND MANHOLE SHEET

DRAWING
1.02

SHEET
GE-02

MILLVILLE SANITARY SEWER DISTRICT
SR 26 PHASE III EXPANSION



CONTRACT	COUNTY	P.L.P. NO.	SHEET NO.	TOTAL SHEETS
T2004020	SUSSEX		575	589

SR 26, ATLANTIC AVENUE
FROM CLARKSVILLE TO
ASSAWOMAN CANAL

REVISIONS

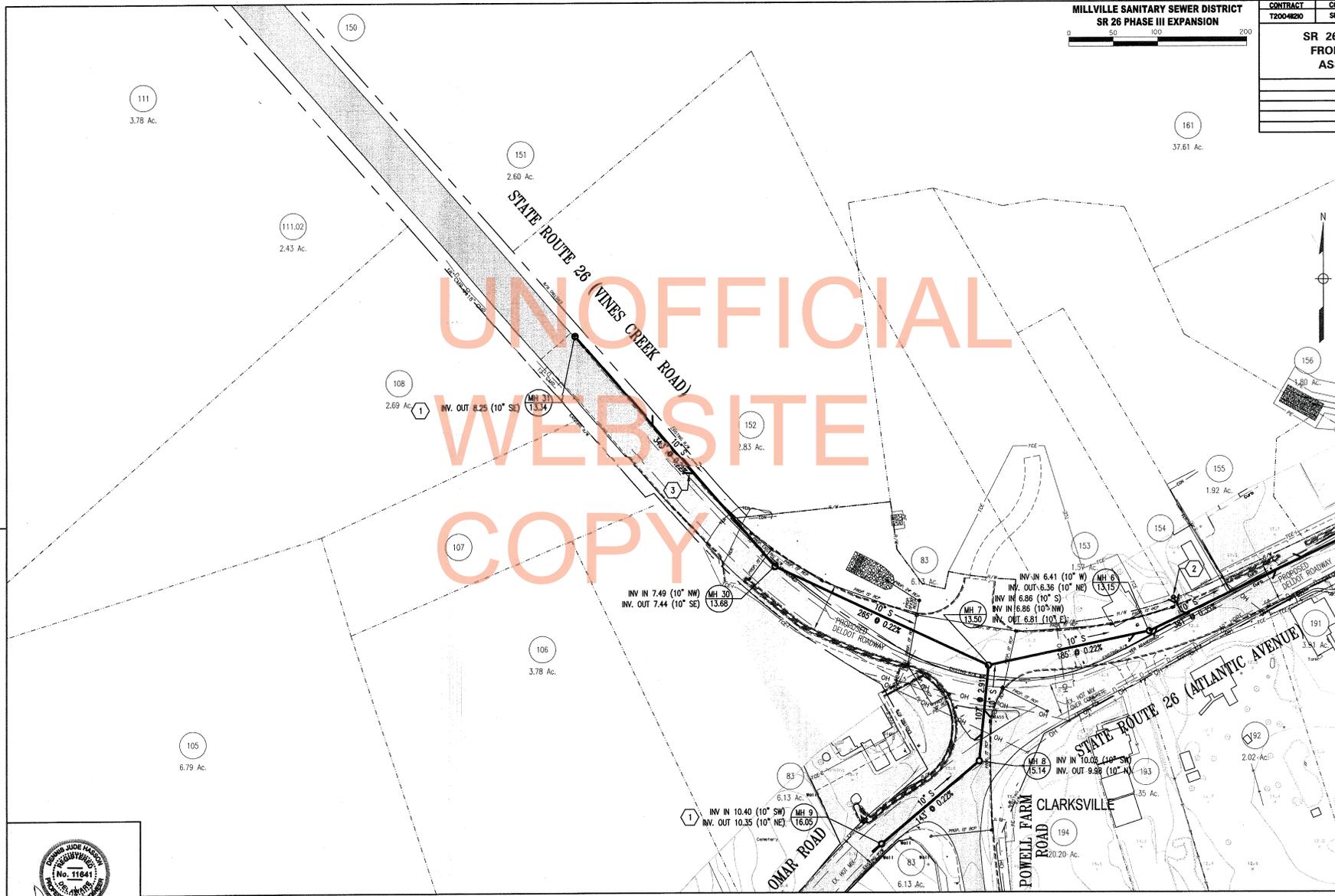
SR OF SR

CONSTRUCTION NOTES

- 1 PROVIDE PLUGGED CONNECTION FOR FUTURE EXTENSION BY OTHERS
- 2 INSTALL 6" LATERAL TO TERMINAL CLEANOUT. SEE DETAIL 4.02-S. INSTALL A WYE BRANCH, 6-INCH LATERAL, AND CLEANOUT FOR EACH ADJOINING PANEL.
- 3 INSTALL 6" LATERAL.

MATCH SHEET DM-38 DRAWING NO. 2.02

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SEWER PROFILE SCHEDULE	
ROAD	PROFILE DWG. NO.
VINES CREEK ROAD	3.03
OMAR ROAD	3.01
ATLANTIC AVENUE	3.01

PLAN OF SEWER MAINS	DRAWING 2.01	SHEET DM-38
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PREL. TRACKING

DESIGN

CHKD.

CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHEETS
T2004820	SUSSEX		578	589

**SR 26, ATLANTIC AVENUE
FROM CLARKSVILLE TO
ASSAWOMAN CANAL**

REVISIONS

SR OF SR

CONSTRUCTION NOTES

- 1 INSTALL 10 FT DIAMETER WETWELL WITH AN INTERIOR INVERT OF -13.0'
- 2 SEE DWG. 4.04 FOR FUTURE PUMP STATION NOTES.
- 3 INFLUENT MANHOLE INTO STATION SHALL BE A 5' DIAMETER MANHOLE.
- 4 INSTALL 8" LATERAL TO TERMINAL CLEANDOUT. SEE DETAIL 4.02-5. INSTALL A WYE BRANCH, 6-INCH LATERAL AND CLEANDOUT FOR EACH ADJOINING PANEL.
- 5 JACK AND BORE 20" CASING PIPE UNDERNEATH EXISTING CULVERT.
- 6 INSTALL 6" LATERAL.

FORCE MAIN PROFILE SCHEDULE

ROAD	PROFILE DWG. NO.
ATLANTIC AVENUE	3.03

SEWER PROFILE SCHEDULE

ROAD	PROFILE DWG. NO.
ATLANTIC AVENUE	3.01

DRAWING

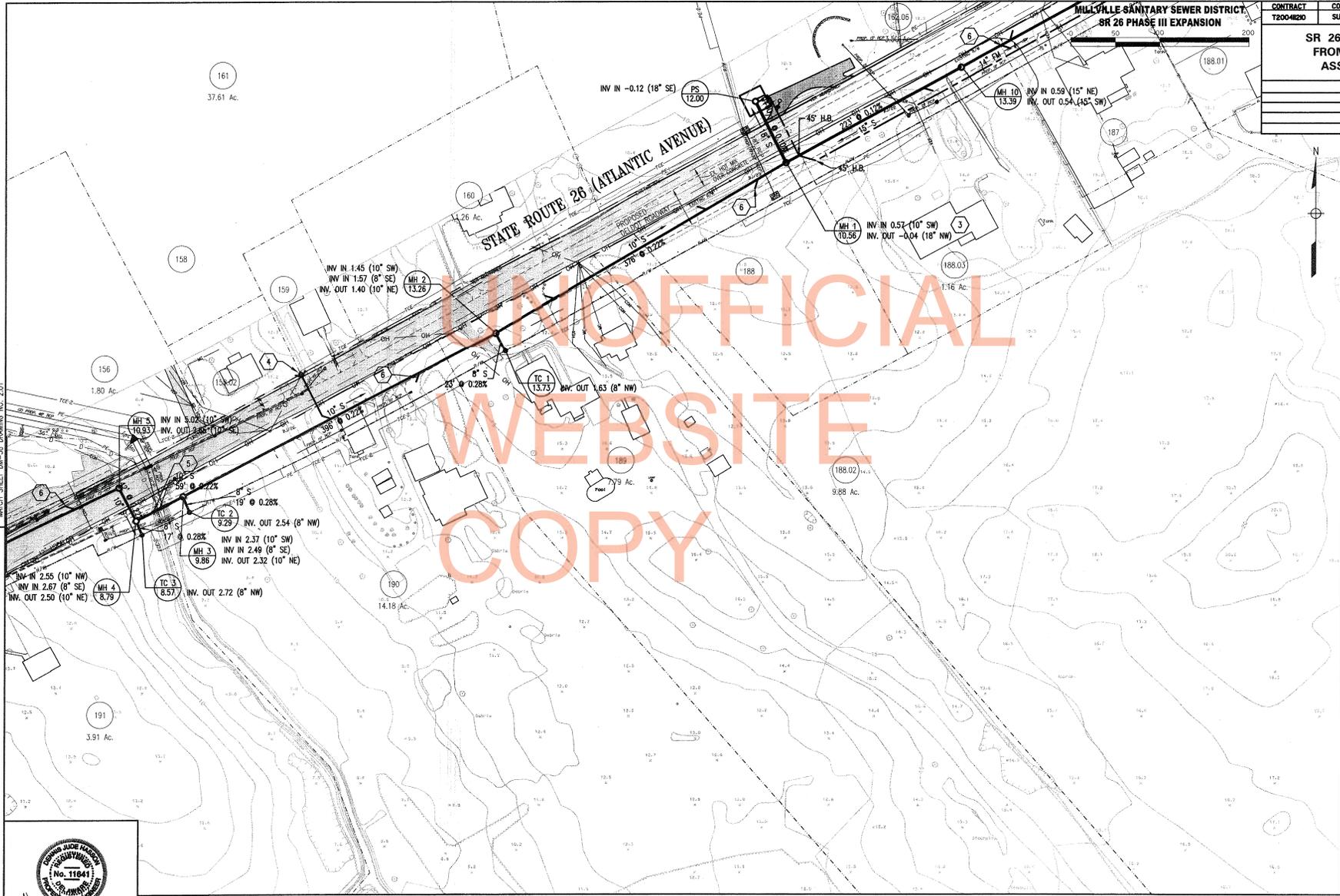
2.02

SHEET

DN-38

PLAN OF SEWER MAINS

UNOFFICIAL
WEBSITE
COPY



MATCH SHEET DN-38 DRAWING NO. 2.01

CHD.

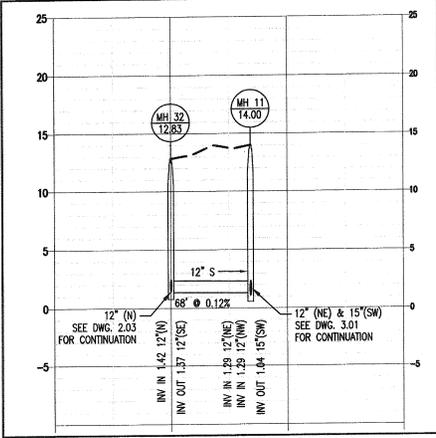
DESIGN

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THOMAS J. HADDOCK

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MILLVILLE SANITARY SEWER DISTRICT
SR 26 PHASE III EXPANSION

CONTRACT T2004820	COUNTY SUSSEX	P.L.P. NO. SEE TITLE SHEET	SHEET NO. 577	TOTAL SHEETS 589
SR 26, ATLANTIC AVENUE FROM CLARKSVILLE TO ASSAWOMAN CANAL				
REVISIONS				
SR OF SR				

- CONSTRUCTION NOTES**
- 1 PROVIDE PLUGGED CONNECTION FOR FUTURE EXTENSION BY OTHERS
 - 2 INSTALL CRITICAL DEPTH LATERAL. SEE SCHEDULE FOR MAXIMUM INVERT AT RIGHT OF WAY.
 - 3 INSTALL 6" LATERAL.

CRITICAL DEPTH LATERAL SCHEDULE

PARCEL	STORM DRAIN INV.	LATERAL INV.
188.01	9.59	7.17
188.04	9.90	7.48

FORCE MAIN PROFILE SCHEDULE

ROAD	PROFILE DWG. NO.
ATLANTIC AVENUE	3.03

SEWER PROFILE SCHEDULE

ROAD	PROFILE DWG. NO.
ATLANTIC AVENUE	3.01
IRONS LANE	2.03

PREL. TRACING

DESIGN

CHKD.

MATCH SHEET DN-38 DRAWING NO. 2.02

PLAN OF SEWER MAINS	DRAWING 2.03	SHEET DN-39
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MILLVILLE SANITARY SEWER DISTRICT
SR 26 PHASE III EXPANSION



CONTRACT	COUNTY	P.L.P. NO.	SHEET NO.	TOTAL SHEETS
T2004120	SUSSEX	SEE TITLE SHEET	578	589

SR 26, ATLANTIC AVENUE
FROM CLARKSVILLE TO
ASSAWOMAN CANAL

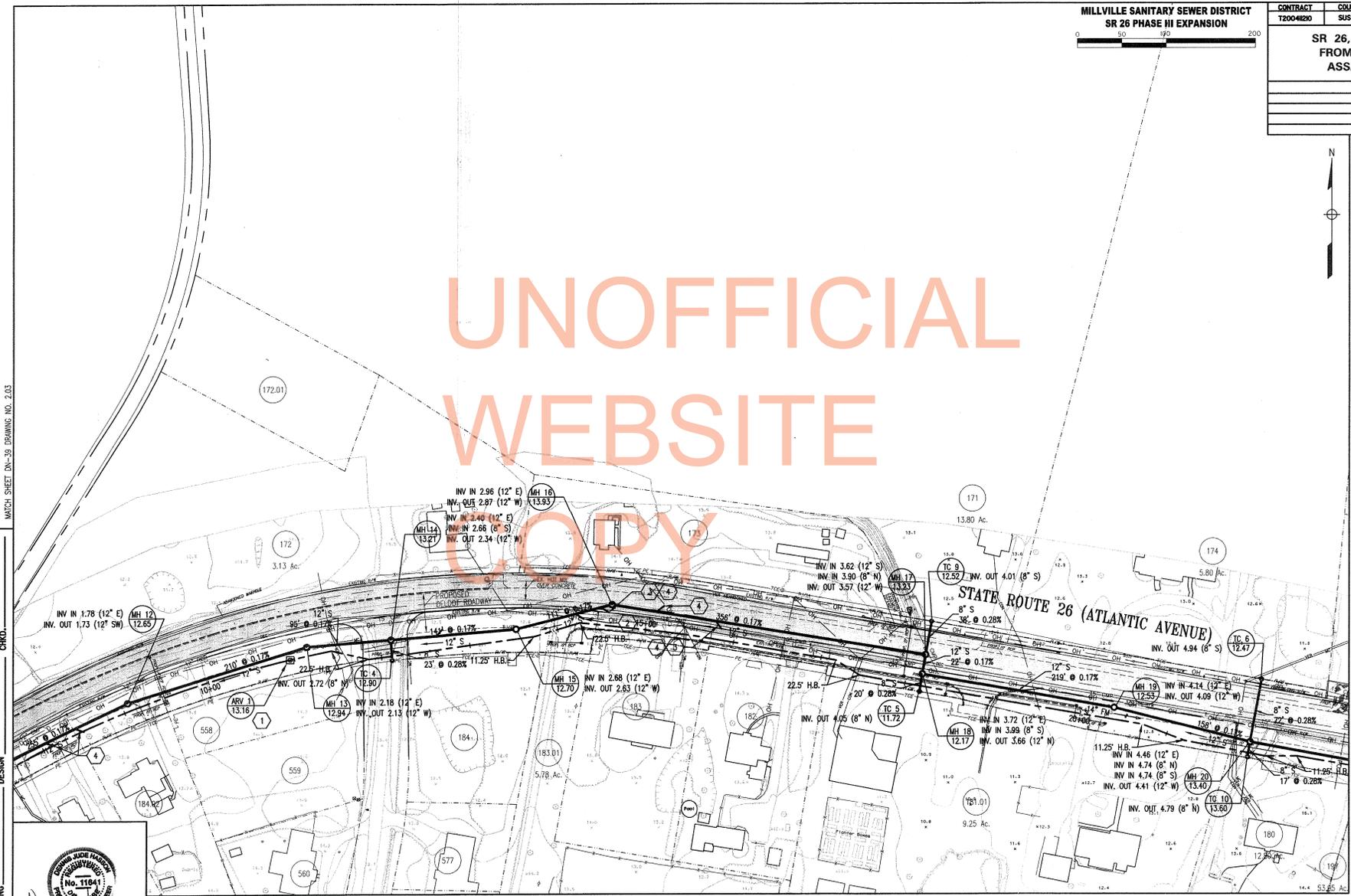
REVISIONS

SR OF SR

- CONSTRUCTION NOTES
- INSTALL AIR RELEASE VALVE WITH CONCRETE COLLAR. SEE DETAIL 4.03-3.
 - INSTALL LATERAL AT MAXIMUM DEPTH TO PROVIDE SERVICE TO PARCEL 183.01.
 - INSTALL CRITICAL DEPTH LATERAL. SEE SCHEDULE FOR MAXIMUM INVERT AT RIGHT OF WAY.
 - INSTALL 6" LATERAL.



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CRITICAL DEPTH LATERAL SCHEDULE

PARCEL	STORM DRAIN INV.	LATERAL INV.
171	10.42	8.00
181.01	9.20	6.78
182	9.53	7.11
183	9.80	7.38

FORCE MAIN PROFILE SCHEDULE

ROAD	PROFILE DWG. NO.
ATLANTIC AVENUE	3.03,3.04

SEWER PROFILE SCHEDULE

ROAD	PROFILE DWG. NO.
ATLANTIC AVENUE	3.01,3.02

MATCH SHEET DN-39 DRAWING NO. 2.03

CHKD.

DESIGN

PREL. TRACING



PLAN OF SEWER MAINS	DRAWING 2.04	SHEET D0-39
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CONSTRUCTION NOTES

- 1 INSTALL AIR RELEASE VALVE WITH CONCRETE COLLAR. SEE DETAIL 4.03-3.
- 2 INSTALL 8" LATERAL TO TERMINAL CLEANOUT. SEE DETAIL 4.02-5. INSTALL A WYE BRANCH, 6-INCH LATERAL, AND CLEANOUT FOR EACH ADJOINING PARCEL.
- 3 INSTALL 6" LATERAL.

MILLVILLE SANITARY SEWER DISTRICT
SR 26 PHASE III EXPANSION



CONTRACT	COUNTY	P.L.P. NO.	SHEET NO.	TOTAL SHEETS
T2004R20	SUSSEX		579	589

**SR 26, ATLANTIC AVENUE
 FROM CLARKSVILLE TO
 ASSAWOMAN CANAL**

REVISIONS

SR OF SR



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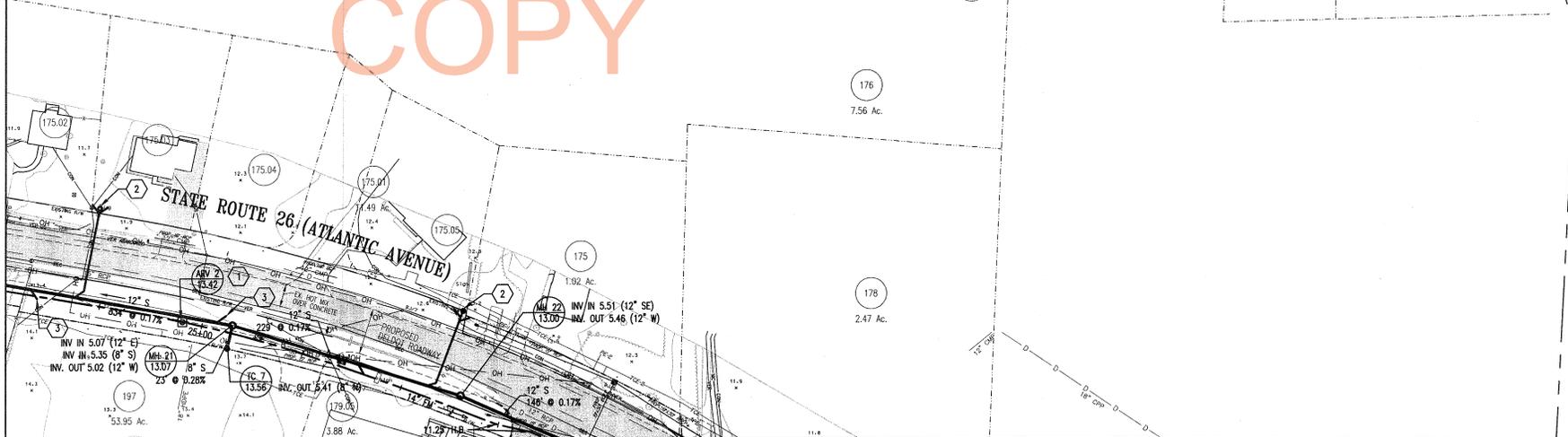
MATCH SHEET DC-39 DRAWING NO. 2.04

FORCE MAIN PROFILE SCHEDULE

ROAD	PROFILE DWG. NO.
ATLANTIC AVENUE	3.04

SEWER PROFILE SCHEDULE

ROAD	PROFILE DWG. NO.
ATLANTIC AVENUE	3.02



MATCH SHEET DP-38 DRAWING NO. 2.06

CHKD.

DESIGN

PREL. TRACING



PLAN OF SEWER MAINS

DRAWING

2.05

SHEET

DP-39

MILLVILLE SANITARY SEWER DISTRICT
SR 26 PHASE III EXPANSION

CONTRACT	COUNTY	P.L.P. NO.	SHEET NO.	TOTAL SHEETS
T2004H20	SUSSEX		580	589

SR 26, ATLANTIC AVENUE
FROM CLARKSVILLE TO
ASSAWOMAN CANAL

REVISIONS

SR OF SR

- CONSTRUCTION NOTES
- INSTALL AIR RELEASE VALVE. SEE DETAIL 4.03-3.
 - INSTALL 14"x14" TEE.
 - INSTALL 14" GATE VALVE WITH RESTRAINED PLUG. ALL PIPE FROM VALVE TO TEE SHALL BE RESTRAINED. SEE DETAIL 4.03-2.
 - INSTALL 8" LATERAL TO TERMINAL CLEANOUT. SEE DETAIL 4.02-5. INSTALL A WYE BRANCH, 6-INCH LATERAL, AND CLEANOUT FOR EACH ADDING PARCEL.
 - INSTALL CRITICAL DEPTH LATERAL. SEE SCHEDULE FOR MINIMUM INVERT AT RIGHT OF WAY.
 - INSTALL CRITICAL DEPTH LATERAL. SEE SCHEDULE FOR MAXIMUM INVERT AT RIGHT OF WAY.
 - INSTALL 6" LATERAL.
 - INSTALL 8" GATE VALVE. SEE DETAIL 4.03-2.

MATCH SHEET DP-38 DRAWING NO. 2.07

CRITICAL DEPTH LATERAL SCHEDULE

PARCEL	STORM DRAIN INV.	LATERAL INV.
179.06	9.14	6.72

CRITICAL DEPTH LATERAL SCHEDULE

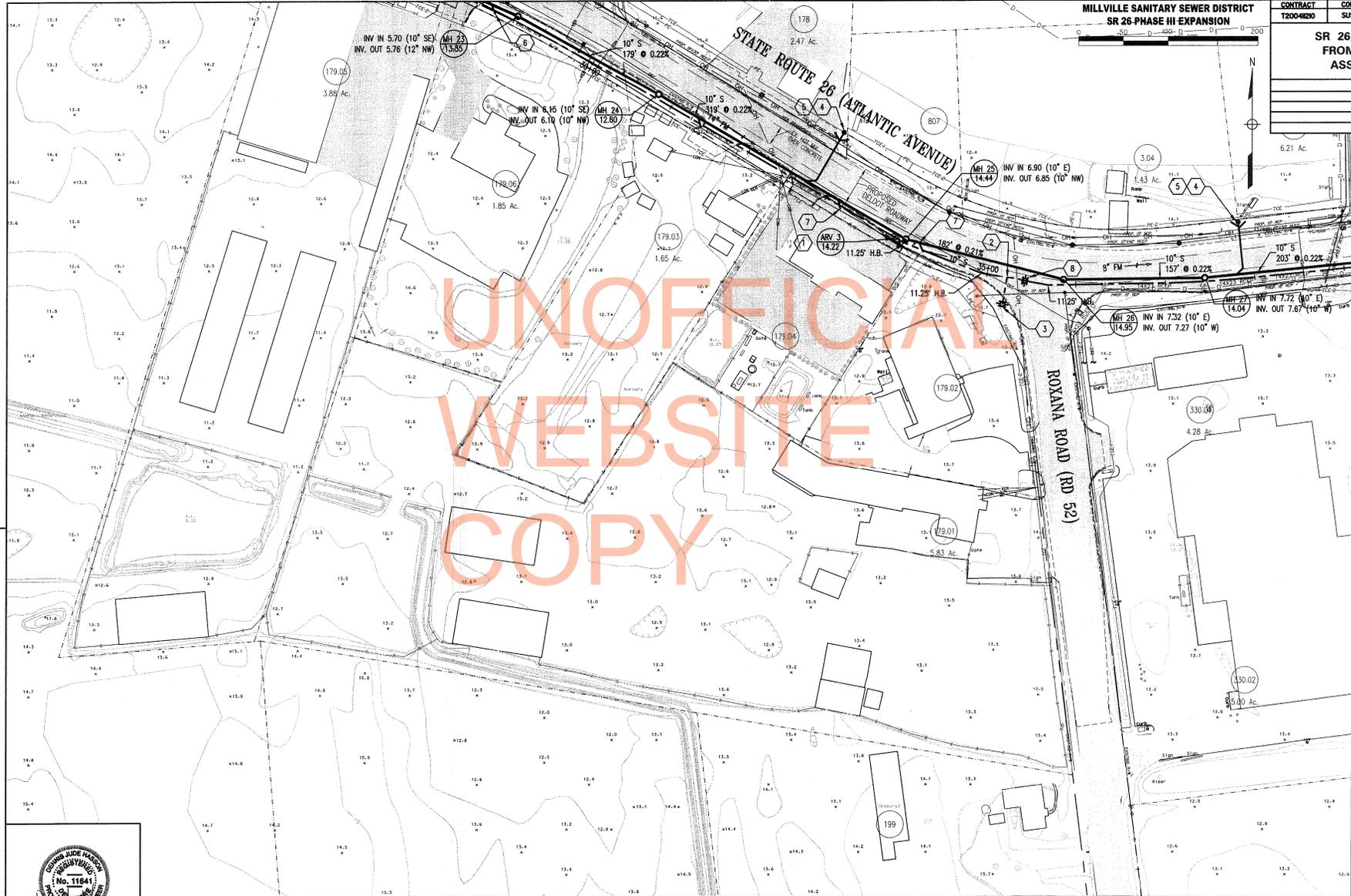
PARCEL	STORM DRAIN CROWN	LATERAL INV.
3.03 & 3.04	9.30 & 9.52	9.85
178 & 807	10.44	10.77

FORCE MAIN PROFILE SCHEDULE

ROAD	PROFILE DWG. NO.
ATLANTIC AVENUE	3.04

SEWER PROFILE SCHEDULE

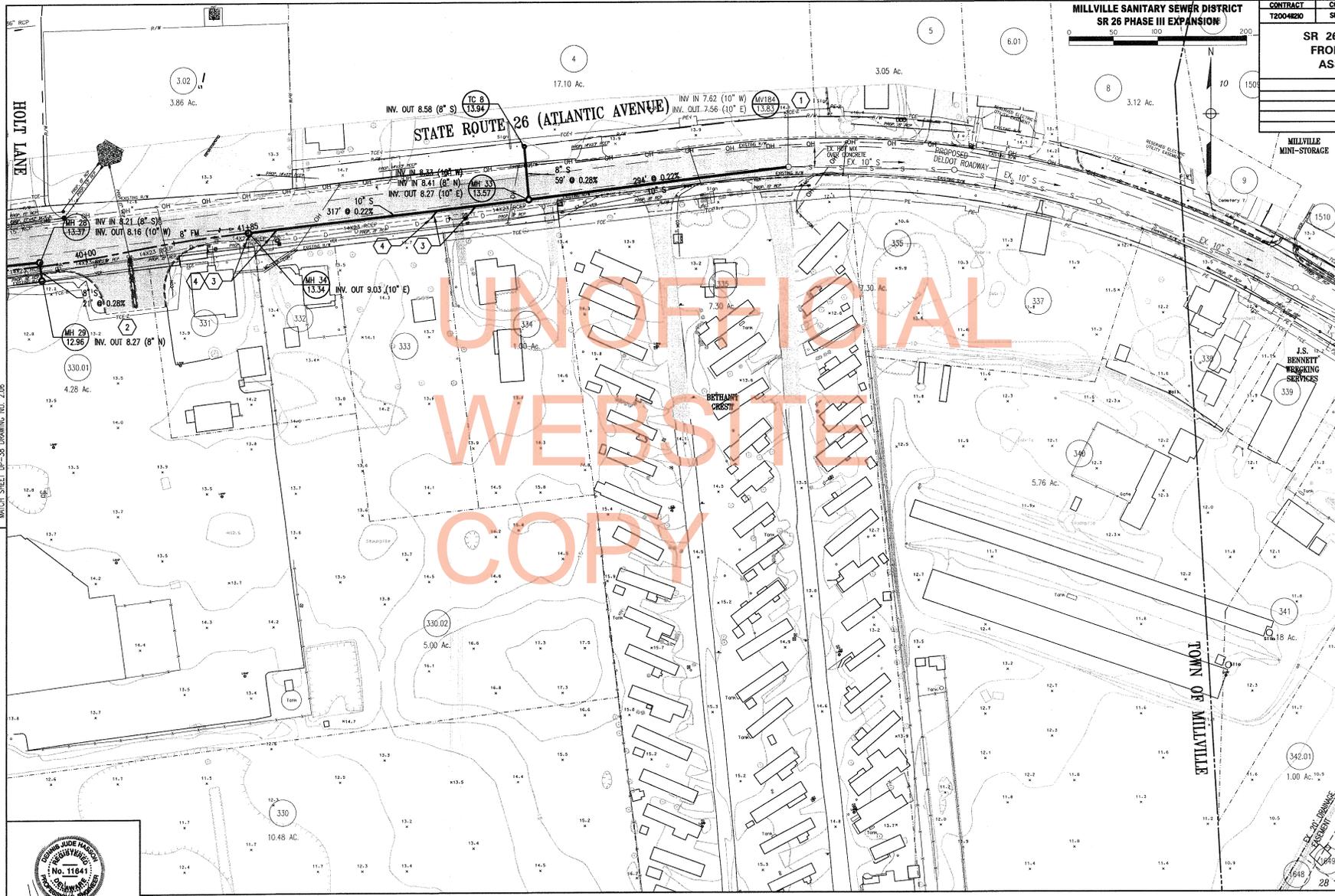
ROAD	PROFILE DWG. NO.
ATLANTIC AVENUE	3.02



PREL. TRACKING DESIGN CHKD.



PLAN OF SEWER MAINS	DRAWING 2.06	SHEET DP-38
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MILLVILLE SANITARY SEWER DISTRICT
SR 26 PHASE III EXPANSION



CONTRACT	COUNTY	P.A.P. NO.	SHEET NO.	TOTAL SHEETS
T2004260	SUSSEX	SEE TITLE SHEET	581	589

SR 26, ATLANTIC AVENUE
FROM CLARKSVILLE TO
ASSAWOMAN CANAL

REVISIONS

MILLVILLE
MINI-STORAGE

SR OF SR

CONSTRUCTION NOTES

- 1 CONNECT TO EXISTING STUB CONNECTION.
- 2 PROVIDE PLUGGED CONNECTION FOR FUTURE EXTENSION.
- 3 INSTALL CRITICAL DEPTH LATERAL. SEE SCHEDULE FOR MINIMUM INVERT AT RIGHT OF WAY.
- 4 INSTALL 6" LATERAL.

CRITICAL DEPTH LATERAL SCHEDULE

PARCEL	STORM DRAIN CROWN INV.	LATERAL INV.
331	9.56	9.89
332	9.66	9.99
333	9.95	10.28
334	9.84	10.17

FORCE MAIN PROFILE SCHEDULE

ROAD	PROFILE DWG. NO.
ATLANTIC AVENUE	3.04

SEWER PROFILE SCHEDULE

ROAD	PROFILE DWG. NO.
ATLANTIC AVENUE	3.02, 3.03

MATCH SHEET DP-38 DRAWING NO. 2.06

CHHO.

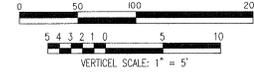
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PREL. TRACING



PLAN OF SEWER MAINS	DRAWING 2.07	SHEET DQ-38
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MILLVILLE SANITARY SEWER DISTRICT
SR 26 PHASE III EXPANSION

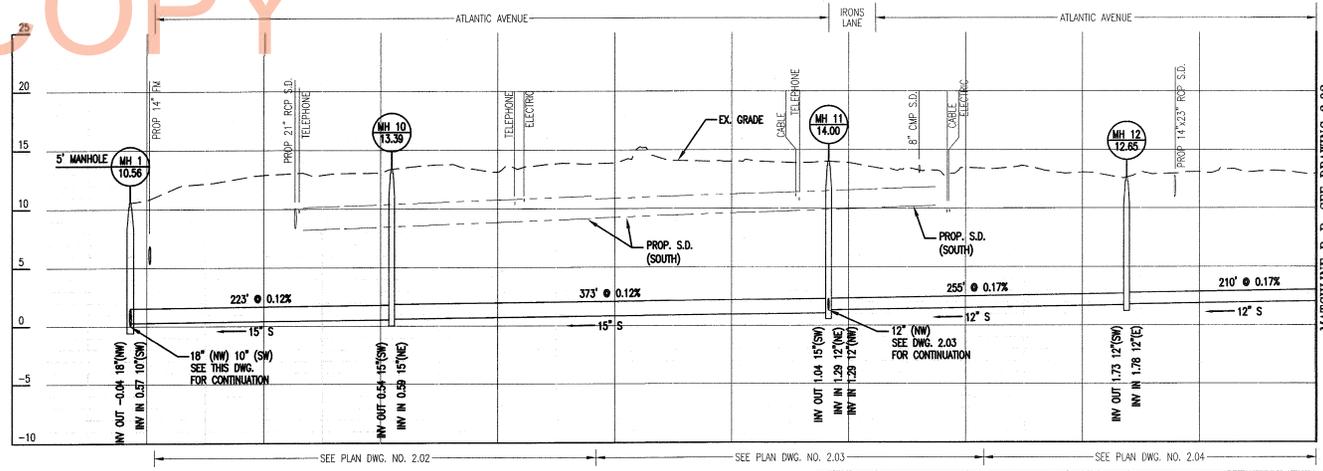
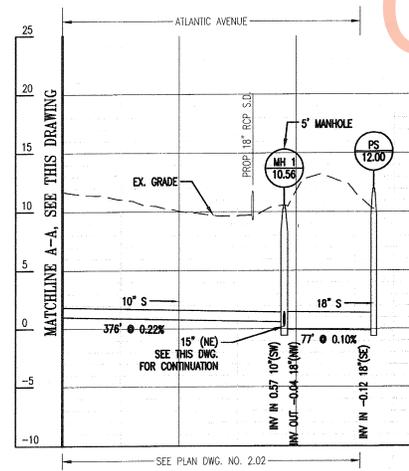
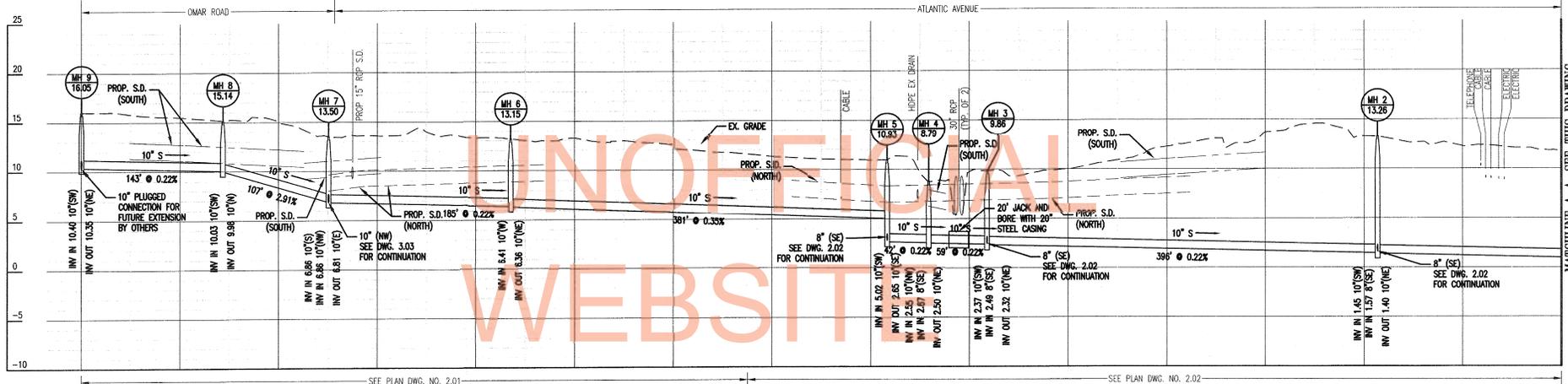


CONTRACT T200-4620	COUNTY SUSSEX	P.A.P. NO. SEE TITLE SHEET	SHEET NO. 562	TOTAL SHEETS 569
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SR 26, ATLANTIC AVENUE
FROM CLARKVILLE TO
ASSAWOMAN CANAL

REVISIONS

SR OF SR



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CHKD.

SEWER MAIN PROFILES	DRAWING 3.01	SHEET P-01
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MILLVILLE SANITARY SEWER DISTRICT
SR 26 PHASE III EXPANSION

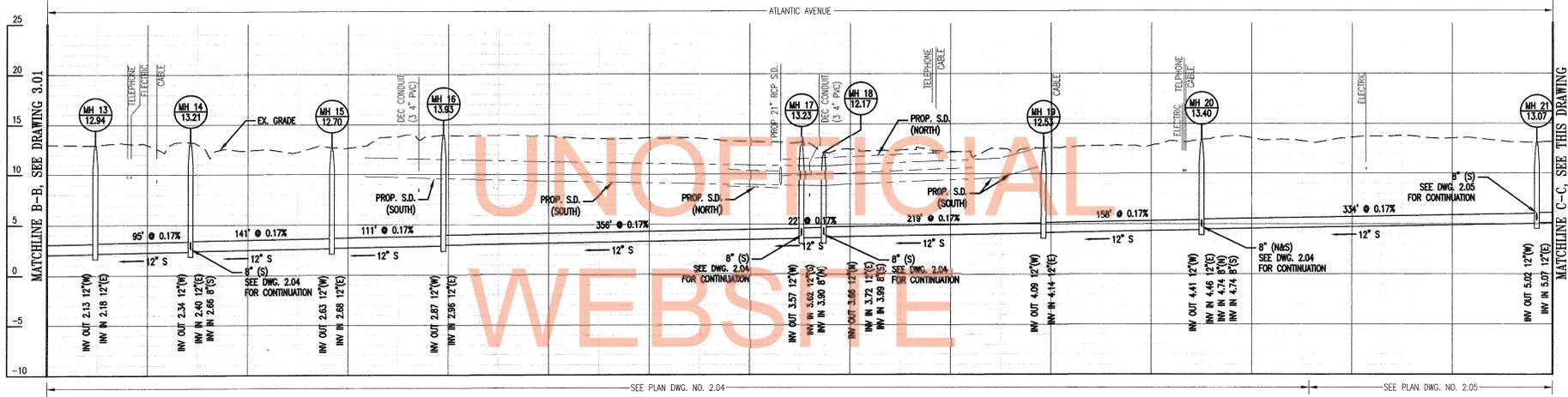


CONTRACT	COUNTY	P.A.A. NO.	SHEET NO.	TOTAL SHEETS
T2004M20	SUSSEX		583	589

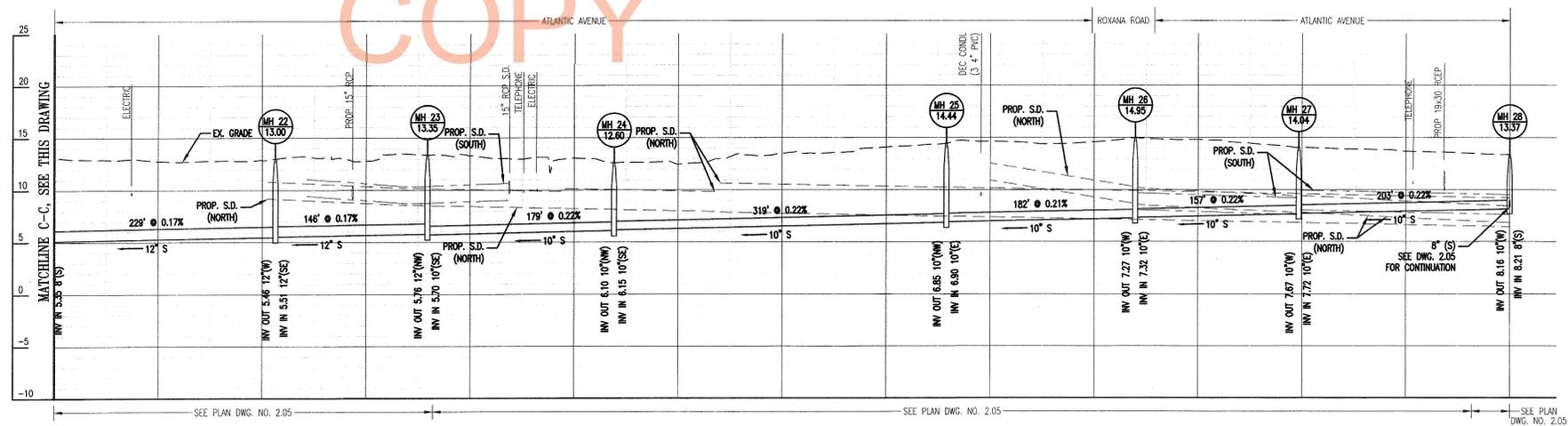
SR 26, ATLANTIC AVENUE
FROM CLARKSVILLE TO
ASSAWOMAN CANAL

REVISIONS

SR OF SR



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PREL. TRACING

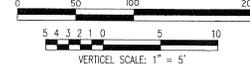
DESIGN

CHKD.

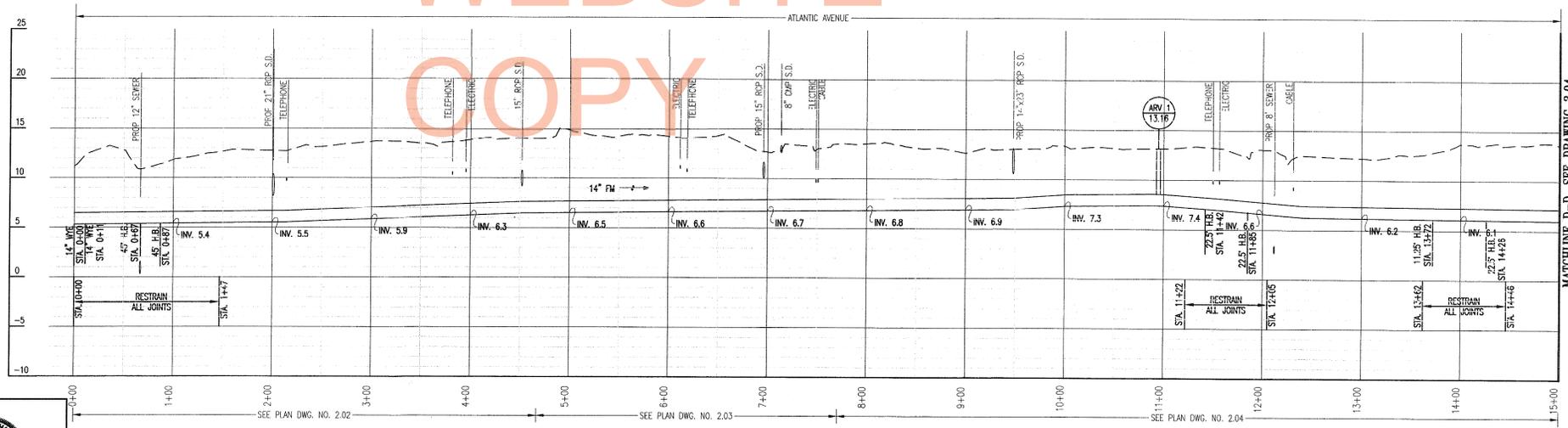
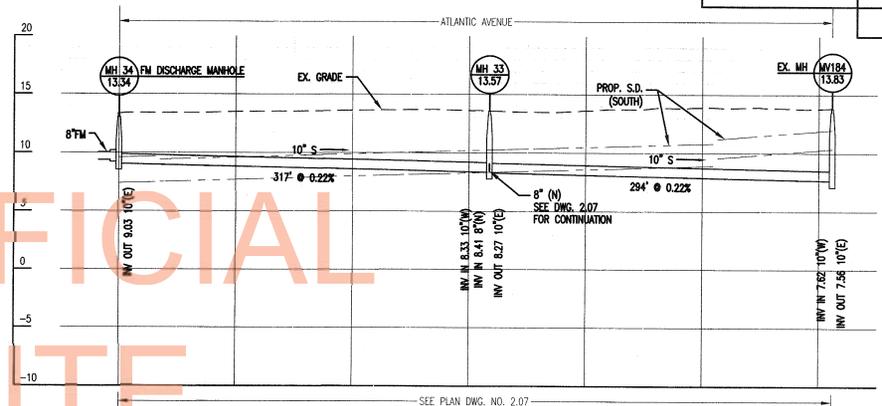
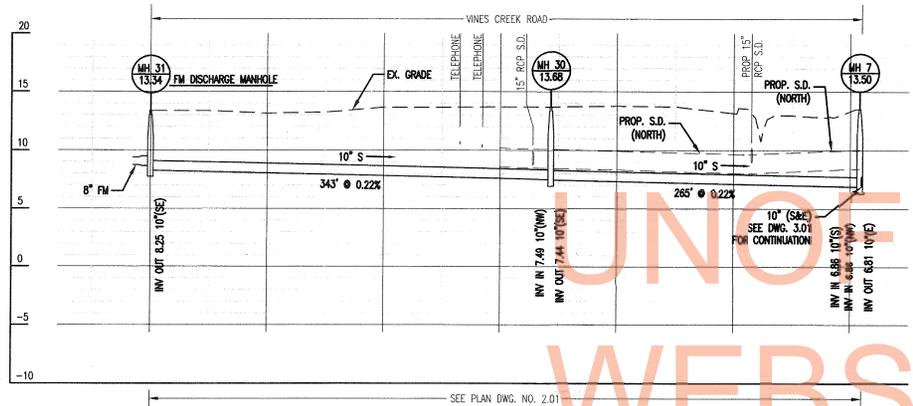
D. M. Haddock

SEWER MAIN PROFILES	DRAWING 3.02	SHEET P-02
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MILLVILLE SANITARY SEWER DISTRICT
SR 26 PHASE III EXPANSION



CONTRACT	COUNTY	P.A.S. NO.	SHEET NO.	TOTAL SHEETS
T2004120	SUSSEX	SEE TITLE SHEET	584	589
SR 26, ATLANTIC AVENUE FROM CLARKSVILLE TO ASSAWOMAN CANAL				
REVISIONS				

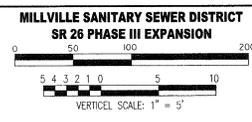
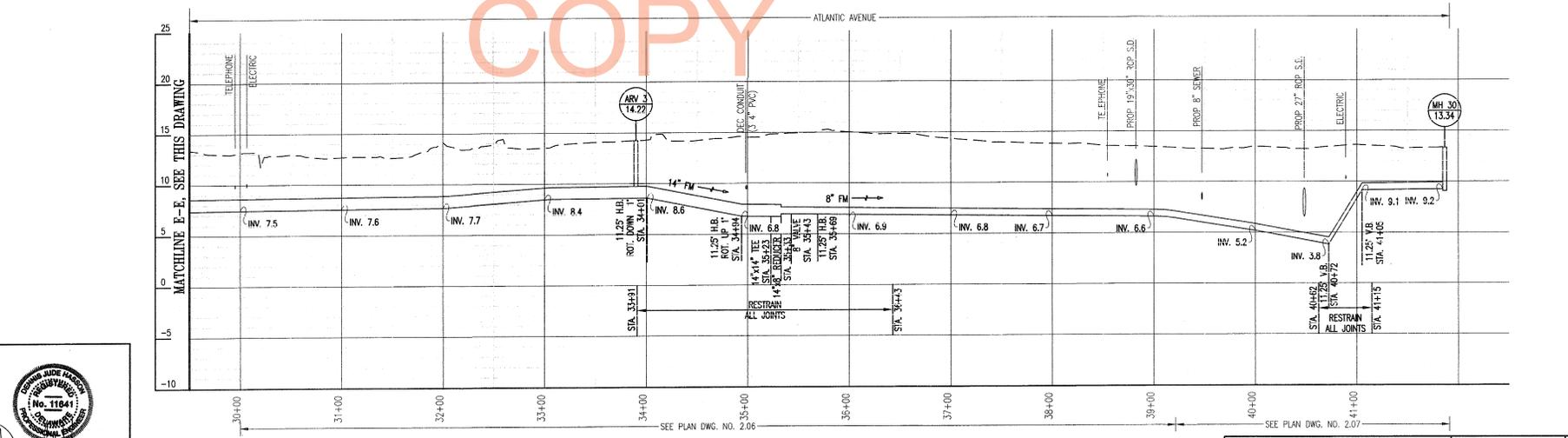


PREL. TRACING DESIGN CHKD.



SEWER MAIN PROFILES	DRAWING	SHEET
	3.03	P-03

PREL. TRACING DESIGN CHKD.



CONTRACT	COUNTY	K&P. NO.	SHEET NO. TOTAL SHEETS
T2004820	SUSSEX	SEE TITLE SHEET	585 589

SR 26, ATLANTIC AVENUE FROM CLARKSVILLE TO ASSAWOMAN CANAL	
REVISIONS	

SR OF SR

SEWER MAIN PROFILES	DRAWING 3.04	SHEET P-04
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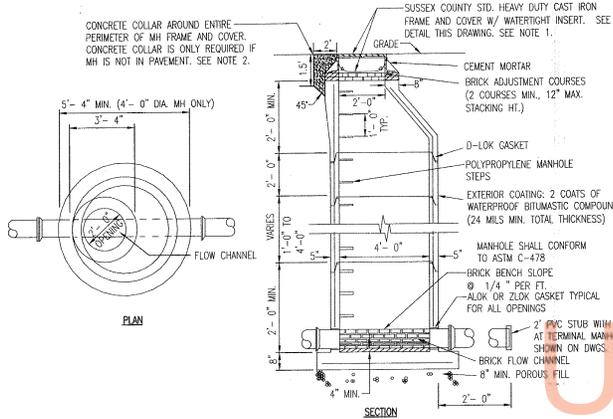
MILLVILLE SANITARY SEWER DISTRICT
SR 26 PHASE III EXPANSION

CONTRACT T2004202	COUNTY SUSSEX	S.A.B. NO. SEE TITLE SHEET	SHEET NO. 588	TOTAL SHEETS 589
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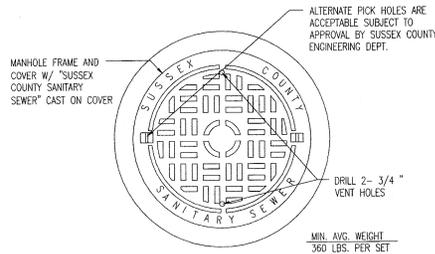
SR 26, ATLANTIC AVENUE
FROM CLARKSVILLE TO
ASSAWOMAN CANAL

REVISIONS

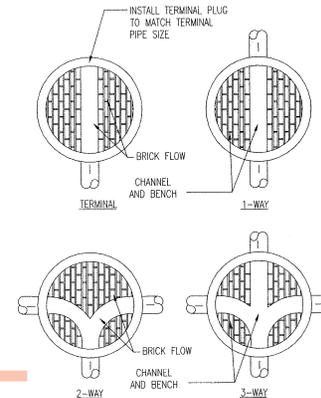
SR OF SR



1 PRECAST CONCRETE MANHOLE DETAIL
4.01 SCALE: NONE



2 MANHOLE FRAME AND COVER
4.01 SCALE: NONE

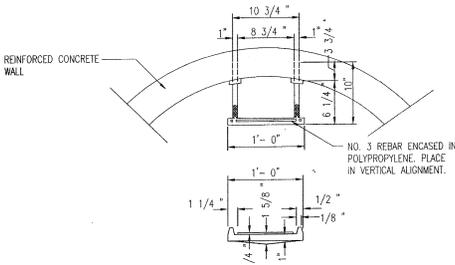


3 FLOW CHANNEL DETAIL
4.01 SCALE: NONE

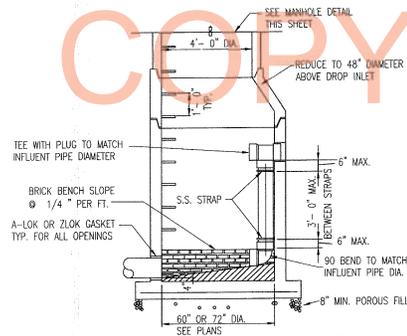
NOTE:
1. PRE-CAST CONCRETE CHANNELS MAY BE PROVIDED AS AN ALTERNATIVE TO BRICK FLOW CHANNEL AND BENCH.

NOTES:
1. FOR MANHOLES LOCATED IN DELDOT ROADWAYS, THE FRAME AND COVER SHALL BE LOCATED OUTSIDE OF THE WHEEL PATH WHENEVER POSSIBLE. PROVIDE INDIVIDUAL CUT SHEETS FOR ALL MANHOLES INSTALLED WITHIN DELDOT ROADWAYS.
2. CONCRETE PAD DIMENSIONS ALSO APPLY FOR TERMINAL CLEANOUTS AND AIR RELEASE VALVES WHEN THESE STRUCTURES ARE NOT IN PAVED ROADWAYS. ALL CONCRETE SHALL BE POURED AGAINST UNDISTURBED EARTH.

UNOFFICIAL
WEBSITE
COPY

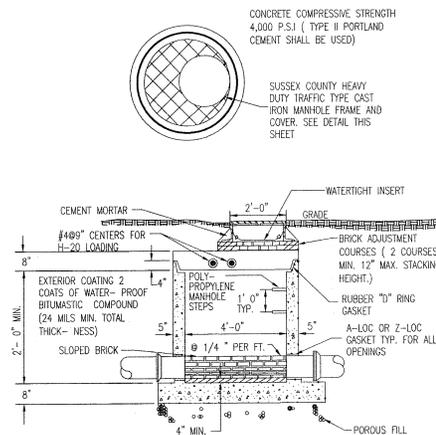


4 MANHOLE STEP DETAIL
4.01 SCALE: NONE



NOTE:
1. STAINLESS STEEL STRAPS SHALL BE 1/8" X 1" MIN.
2. S.S. STRAP CONNECTORS SHALL BE EXPANSION BOLTS OR APPROVED EQUAL.
3. PROVIDE 72" DIAMETER MANHOLE WHEN TWO DROP CONNECTIONS OCCUR IN ONE MANHOLE.
4. A DROP MANHOLE IS NOT REQUIRED WHEN THE DIFFERENCE IS 2' OR LESS. FOR DIFFERENCES IN INVERTS OF 2' OR LESS, PROVIDE A SMOOTH TRANSITION WITH THE FLOW CHANNEL.

5 INSIDE DROP MANHOLE DETAIL
4.01 SCALE: NONE



6 48" DIAMETER SHALLOW PRECAST MANHOLE
4.01 SCALE: NONE

CHKD.

DESIGN

PREL. TRACING



MANHOLE DETAILS

DRAWING
4.01

SHEET
DT-01

MILLVILLE SANITARY SEWER DISTRICT
SR 26 PHASE III EXPANSION

CONTRACT	COUNTY	P.A.P. NO.	SHEET NO.	TOTAL SHEETS
T2004020	SUSSEX		589	589

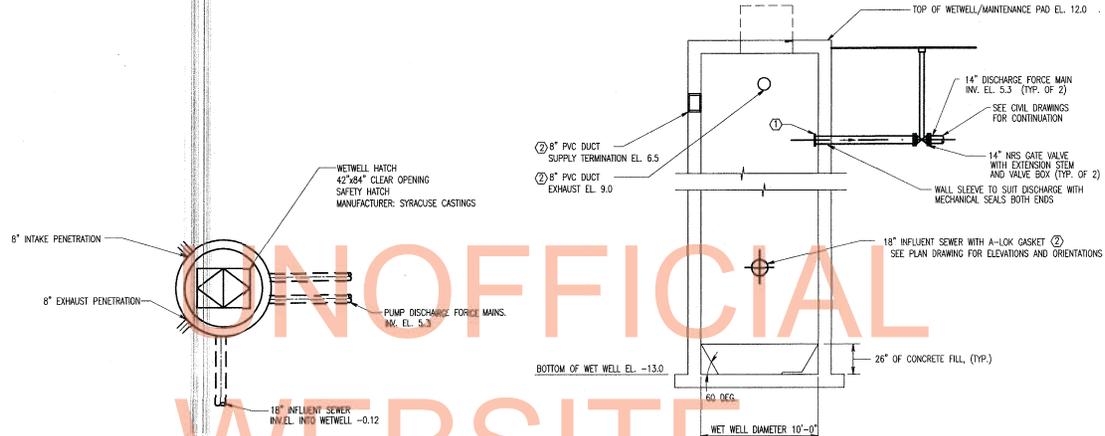
SR 26, ATLANTIC AVENUE
FROM CLARKVILLE TO
ASSAWOMAN CANAL

REVISIONS

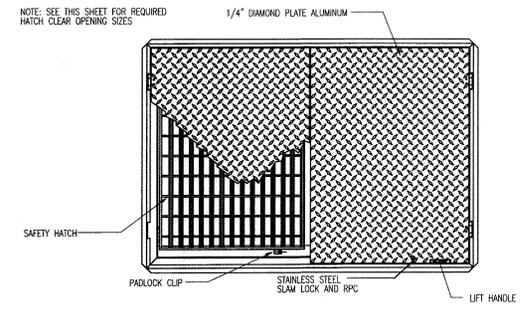
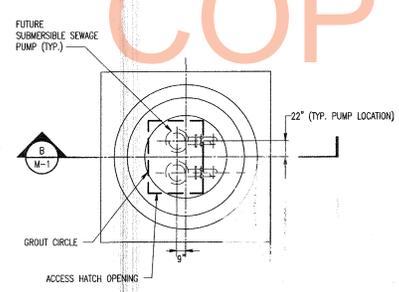
SR OF SR

NOTES:

- ① PROVIDE TEMPORARY CAP
- ② PROVIDE PLUGGED CONNECTION



1 GRADE LEVEL PLAN
SCALE: NONE



PREL. TRACING DESIGN CHKD.



PUMP STATION WETWELL	DRAWING 4-04	SHEET M-1
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