

# COBB COUNTY-MARIETTA WATER AUTHORITY

## HIGHWAY 41 WATER MAINS, PHASE IV

COBB COUNTY-MARIETTA WATER AUTHORITY PROJECT No. 41 1S 2701

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GLENN M. PAGE  
GENERAL MANAGER

# ATKINS

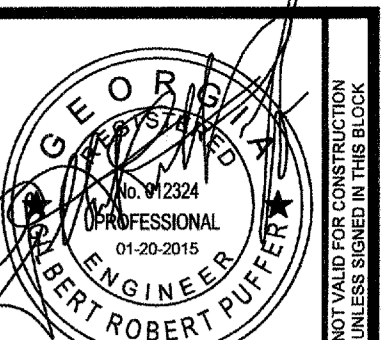
1600 RiverEdge Parkway, NW, Suite 600  
Atlanta, Ga 30328  
P: 770-933-0280

PROJECT No: 100032548  
JANUARY 2015

CONTRACTOR IDENTIFICATION AND LANGUAGE REQUIREMENTS:

All equipment used for the maintenance or installation of utility facilities on public right-of-way shall be identified with signs that indicate the Utility Owner's name and telephone number. All personnel shall carry a name badge that identifies the utility company for whom they are working. At least one person in each operation or location shall be fluent in English. The individual shall have knowledge of what his or her company is doing and why.

NOTE:  
OWNER'S 24-HOUR CONTACT:  
Cobb County-Marietta Water Authority  
1170 Atlanta Industrial Drive  
Marietta, GA 30066  
Phone (770) 514-5300



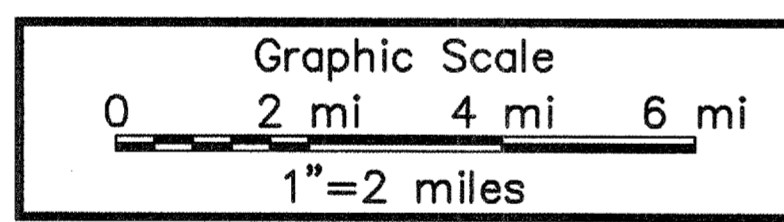
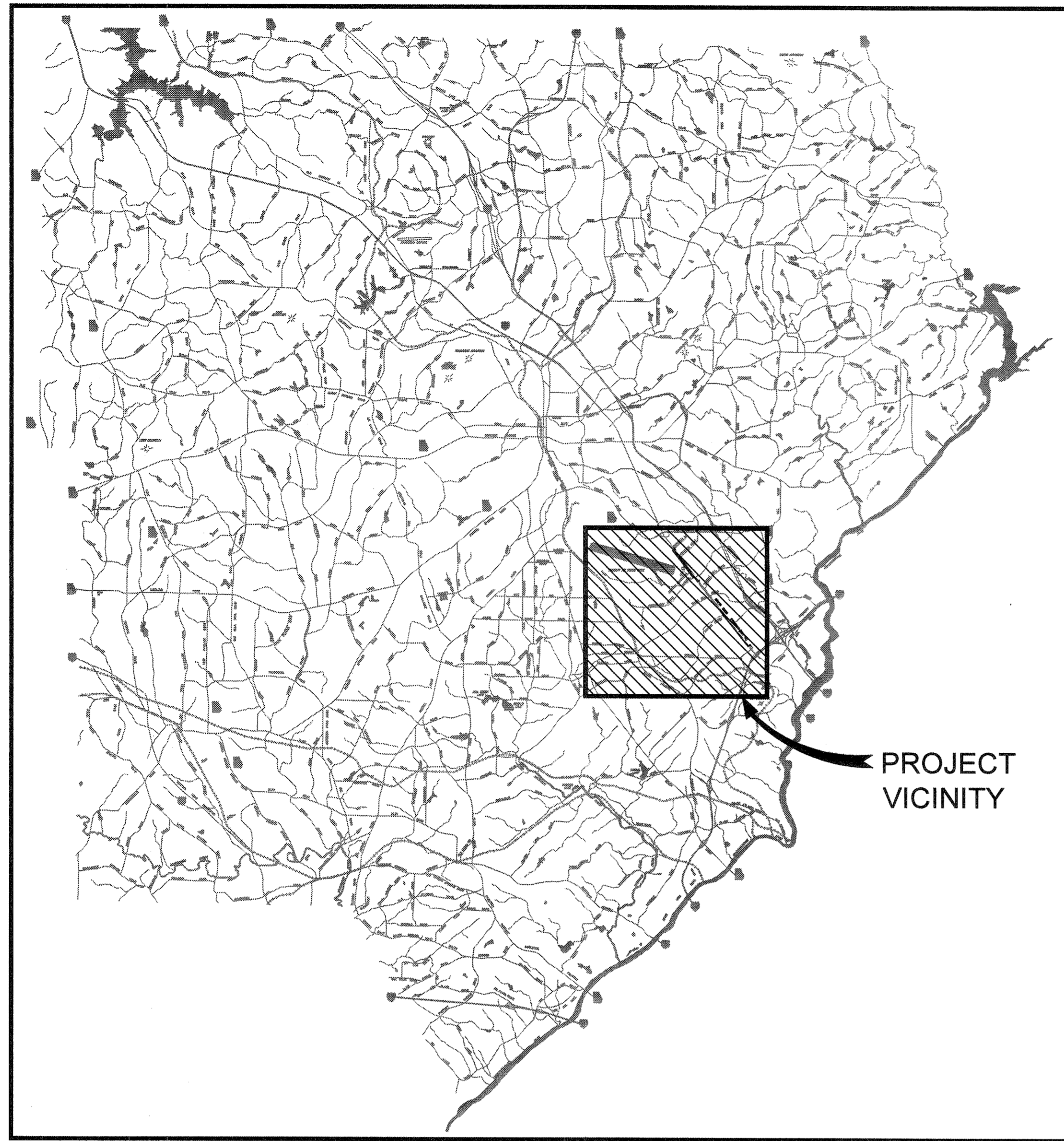
**ATKINS**  
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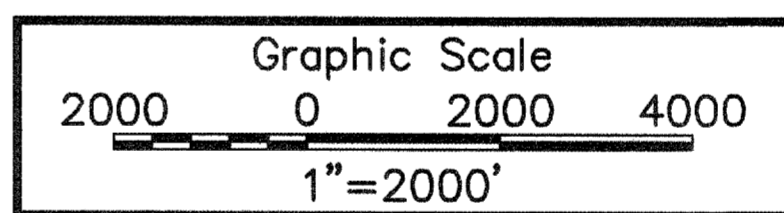
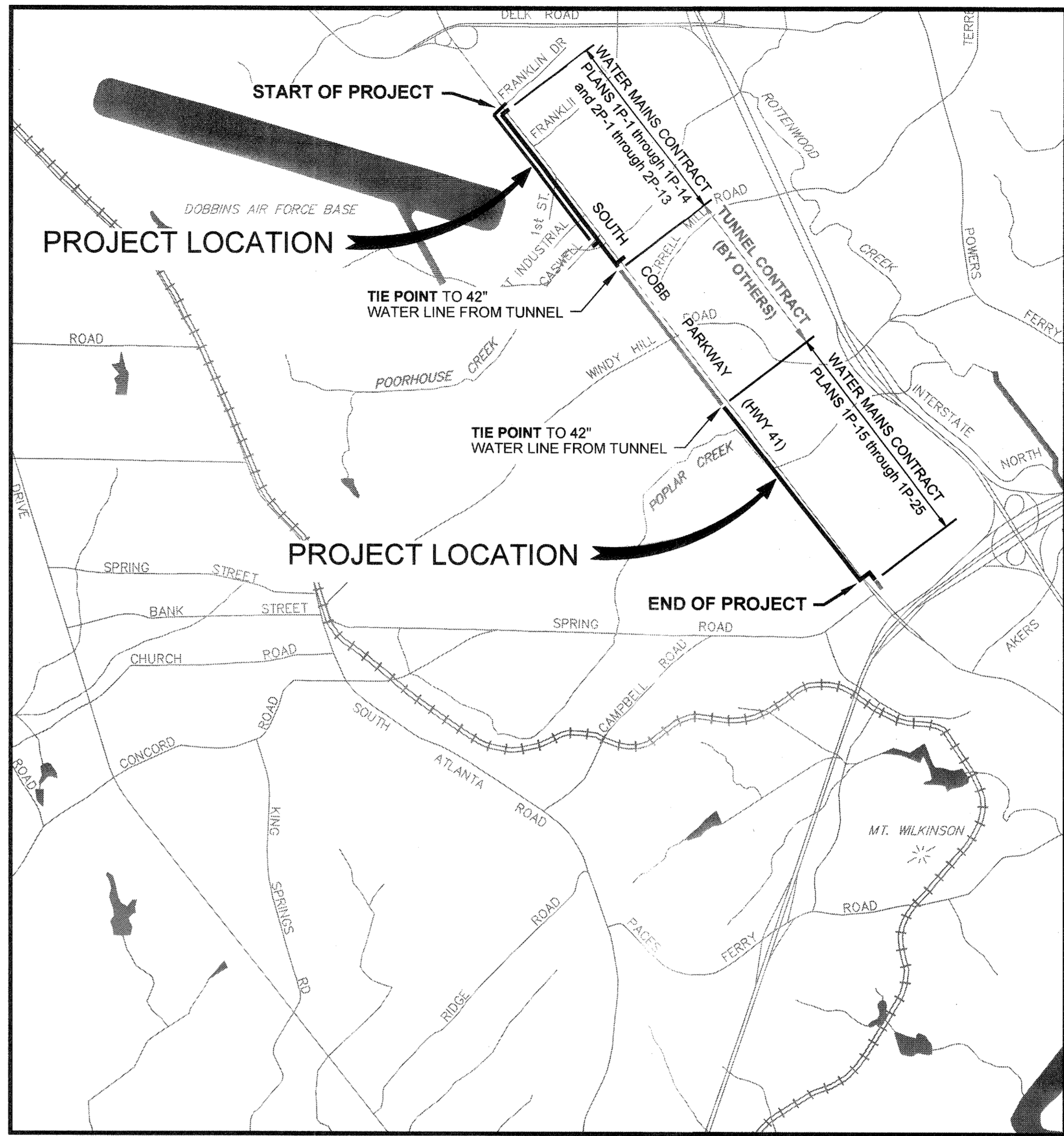
REVISION	DATE
FOR BID	01/20/2015

PROJ. No.: 100032548  
DESIGNED BY: GRP  
DRAWN BY: JN  
CHECKED BY: GRP  
APPROVED BY: GRP  
DATE: JAN. 2015  
SCALE: NO SCALE

COBB COUNTY-MARIETTA WATER AUTHORITY  
HIGHWAY 41 PHASE IV  
WATER MAIN  
COVER  
SHEET No.  
100032548



COBB COUNTY VICINITY MAP

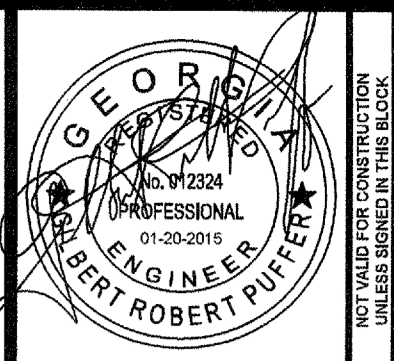


PROJECT LOCATION MAP

**DRAWING INDEX**

SHEET No.	DRAWING TITLE
G-1	COBB COUNTY VICINITY MAP - PROJECT LOCATION MAP - DRAWING INDEX
G-2	GENERAL NOTES
G-3	LEGEND, SYMBOLS, AND SURVEY CONTROL POINTS
1P-1 through 1P-6	PLANS, PROFILES, AND SECTIONS
1P-7	PLAN, PROFILE, SECTION, AND DETAIL
1P-8 through 1P-12	PLANS, PROFILES, AND SECTIONS
1P-13	PLAN AND PROFILES
1P-14	PLAN, PROFILES, AND TUNNEL LINER SECTION
1P-15 through 1P-19	PLANS, PROFILES, AND SECTIONS
1P-20	PLAN, PROFILE, SECTION AND DETAIL
1P-21 through 1P-25	PLANS, PROFILES, AND SECTIONS
2P-1 through 2P-8	PLANS AND PROFILES
2P-9	PLAN, PROFILE, DETAIL
2P-10	PLAN AND PROFILE
2P-11	PLAN, PROFILE, DETAIL
2P-12	PLAN AND PROFILE
2P-13	PLAN, PROFILE, DETAIL
D-100	MISCELLANEOUS DETAILS
D-101	MISCELLANEOUS DETAILS
D-200	MISCELLANEOUS DETAILS
D-300	MISCELLANEOUS DETAILS
D-400	MISCELLANEOUS DETAILS
D-401	MISCELLANEOUS DETAILS
D-402	8'-0" I.D. CONCRETE DOGHOUSE MANHOLE FOR 42" GATE VALVE
D-403	10'-0" I.D. CONCRETE DOGHOUSE MANHOLE FOR 48" GATE VALVE
D-404	8'-0" I.D. CONCRETE DOGHOUSE MANHOLE FOR 36" GATE VALVE
D-500	MISCELLANEOUS DETAILS
D-600	MISCELLANEOUS DETAILS
TC-1	TRAFFIC CONTROL

NOTE: SEE SHEET EC-1 FOR EROSION CONTROL DRAWING INDEX



**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-993-0280



DATE	REVISION	FOR BID
01/20/2015		

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN  
 COBB COUNTY VICINITY MAP  
 PROJECT LOCATION MAP  
 DRAWING INDEX

SHEET No.  
**G-1**  
 100032548

**GENERAL NOTES:**

**1. GENERAL INFORMATION**

- 1.1 OWNER: COBB COUNTY-MARIETTA WATER AUTHORITY  
1170 ATLANTA INDUSTRIAL DRIVE  
MARIETTA, GEORGIA 30066  
(770) 514-5300
- 1.2 THE COBB COUNTY-MARIETTA WATER AUTHORITY 24-HOUR TELEPHONE NUMBER IS (770) 974-4286.
- 1.3 ENGINEER: ATKINS  
1600 RIVEREDGE PARKWAY, SUITE 600  
ATLANTA, GEORGIA 30328  
(770) 933-0280
- 1.4 THE CONTRACTOR SHALL GIVE A 24-HOUR EMERGENCY TELEPHONE NUMBER AND NAME OF PERSON TO CONTACT IN AN EMERGENCY.
- 1.5 ALL CONSTRUCTION AND MATERIALS SHALL BE TO COBB COUNTY-MARIETTA WATER AUTHORITY STANDARD S.
- 1.6 THE CONSTRUCTION EASEMENT REPRESENTS THE LIMITS OF CLEARING FOR THE COMPLETE JOB. THE CONTRACTOR SHALL NOT CLEAR BEYOND THIS LIMIT.
- 1.7 CONTRACTOR TO PROVIDE AND MAINTAIN OFF STREET PARKING, AND A CONSTRUCTION STORAGE AREA DURING THE ENTIRE CONSTRUCTION PERIOD. THIS AREA WILL NOT BE LOCATED WITHIN THE LIMITS OF DISTURB ANCE THIS PROJECT.
- 1.8 AS-BUILT ARE REQUIRED TO BE SUBMITTED UPON COMPLETION OF CONSTRUCTION.
- 1.9 EXISTING ROADS SHALL NOT BE OPEN CUT UNLESS PERMISSION IS GRANTED BY THE GEORGIA DOT, COBB COUNTY DOT, OR THE CITY OF MARIETTA PUBLIC WORKS. A COPY OF THE AUTHORIZATION LETTER FROM THE GEORGIA DOT, COBB COUNTY DOT OR CITY OF MARIETTA PUBLIC WORKS MUST BE PROVIDED TO THE OWNER & ENGINEER PRIOR TO CONSTRUCTION.
- 1.10 IF WORK IS PERFORMED ON A GEORGIA DOT, CITY OF MARIETTA OR A COBB COUNTY RIGHT-OF-WAY, A LETTER FROM THE GOVERNING AGENCY IS REQUIRED TO BE SUBMITTED TO THE OWNER & ENGINEER AFTER CONSTRUCTION IS COMPLETE STATING THAT GRASSING, CLEAN-UP, DRAINAGE, ETC. IS ACCEPTABLE.

**2. UNDERGROUND UTILITIES**

INFORMATION REGARDING UNDERGROUND UTILITIES ON THESE PLANS IS NOT GUARANTEED AS TO ACCURACY OR COMPLETENESS. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL REQUEST A FIELD LOCATION THROUGH THE UTILITY PROTECTION CENTER AND ANY UTILITY OWNERS THOUGHT TO HAVE FACILITIES IN THE AREA. THE CONTRACTOR SHALL PROMPTLY COMPARE THESE FIELD-MARKED LOCATIONS WITH THE PROJECT PLANS AND THEN NOTIFY THE ENGINEER OF ANY ANTICIPATED PROBLEMS OR NEED FOR CONTRACT CHANGES. IT THE CONTRACTOR'S RESPONSIBILITY TO EXCAVATE OR CAUSE THE UTILITY TO EXCAVATE FOR THE PURPOSE OF DETERMINING EXACT ELEVATIONS OR LOCATIONS AT UTILITY CROSSINGS AND OTHER CRITICAL LOCATIONS WELL IN ADVANCE OF THE WORK UNDER THIS CONTRACT.

**3. COORDINATION WITH COBB COUNTY AND CITY OF MARIETTA**

- 3.1. COBB COUNTY HAS ENACTED A LOCAL ORDINANCE, WHICH REQUIRES STRICT ADHERENCE TO OSHA REGULATIONS SUBPART P, PART 1926 PERTAINING TO TRENCHING AND EXCAVATION. ALL BIDDERS ARE ADVISED TO BE FAMILIAR WITH BOTH THE OSHA REGULATIONS AND THE LOCAL ORDINANCE BEFORE BIDDING THIS PROJECT.
- 3.2. A TRENCHING AND DITCHING PERMIT IS REQUIRED PRIOR TO ANY WATER AND SEWER MAIN CONSTRUCTION. UTILITY CONTRACTORS MAY OBTAIN THIS PERMIT BY CONTACTING COBB COUNTY (770) 528-1000.
- 3.3. ALL CONSTRUCTION TRAILERS ARE TO BE PERMITTED THROUGH THE PLANNING AND ZONING DEPARTMENT.
- 3.4. ALL SIGNS ON THIS PROJECT ARE TO BE PERMITTED THROUGH CODE ENFORCEMENT/SIGN DIVISION.
- 3.5. ALL TRAFFIC CONTROL MEASURES MUST BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST REVISION AND APPROVED BY THE COBB COUNTY DEPARTMENT OF TRANSPORTATION AND/OR THE GEORGIA DEPARTMENT OF TRANSPORTATION PRIOR TO IMPLEMENTATION. THE CONTRACTOR SHALL MODIFY ANY TRAFFIC CONTROL MEASURES AS DIRECTED BY EITHER ENTITY AT NO ADDITIONAL COST TO THE OWNER.
- 3.6. EROSION CONTROL PRACTICES MUST COMPLY WITH THE MINIMUM BEST MANAGEMENT PRACTICES FOR EROSION AND SPECIFICATIONS IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".
- 3.7. COBB COUNTY ACCEPTS NO RESPONSIBILITY FOR THE AMERICANS WITH DISABILITIES ACT (ADA), EXCEPT FOR NOTIFICATION REQUIREMENT.
- 3.8. CONTRACTOR SHALL NOTIFY THE CITY OF MARIETTA, DEPARTMENT OF PUBLIC WORKS AT 770-794-5650 PRIOR TO COMMENCEMENT OF WORK.
- 3.9. CONTRACTOR SHALL NOTIFY THE CITY OF SMYRNA, DEPARTMENT OF PUBLIC WORKS AT 770-431-2850 PRIOR TO COMMENCEMENT OF WORK.

**5. COORDINATION WITH GEORGIA DEPARTMENT OF TRANSPORTATION**

- 5.1. THE CONTRACTOR SHALL NOTIFY GDOT DISTRICT ENGINEER.
- 5.2. THE CONTRACTOR SHALL CONTACT THE GDOT, TO SCHEDULE A PRECONSTRUCTION INSPECTION PRIOR TO ANY DISTURBANCE. THE CONTRACTOR SHALL IMPLEMENT ANY RECOMMENDATIONS AND MODIFICATIONS MADE BY THE GDOT TO MINIMIZE IMPACT OR DAMAGE AS A RESULT OF THIS INSTALLATION. THIS REQUIREMENT SHALL BE STRICTLY MAINTAINED.
- 5.3. A GEORGIA DEPARTMENT OF TRANSPORTATION (GDOT) PERMIT IS REQUIRED. APPROVAL OF WORK WITHIN GDOT RIGHT-OF-WAY IS DEFERRED TO GDOT.

**6. EROSION AND SEDIMENT CONTROL**

- 6.1. EROSION CONTROL PRACTICES MUST COMPLY WITH THE MINIMUM BEST MANAGEMENT PRACTICES FOR EROSION CONTROL AND SHALL COMPLY WITH THE STANDARDS AND SPECIFICATIONS IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".
- 6.2. FOR EROSION CONTROL NOTES AND SCHEDULE SEE EROSION CONTROL DRAWINGS.

**7. WORKMANSHIP**

- 7.1. THE CONTRACTOR SHALL PROVIDE, ERECT, AND MAINTAIN ALL NECESSARY BARRICADES, SUITABLE AND SUFFICIENT RED LIGHTS, DANGER SIGNALS, AND SIGNS, PROVIDE SUFFICIENT NUMBER OF WATCHMEN, AND TAKE NECESSARY PRECAUTIONS FOR THE PROTECTION OF THE WORK AND THE SAFETY OF THE PUBLIC.
- 7.2. CONSTRUCTION EQUIPMENT SHALL NOT BE PARKED IN THE RIGHT-OF-WAY IN OTHER THAN WORK HOURS.
- 7.3. CONSTRUCTION EQUIPMENT SHALL NOT BE PARKED IN AREAS, WHICH RESTRICT SIGHT DISTANCE AT ANY TIME.
- 7.4. ROADWAYS ARE TO BE KEPT FREE OF DIRT, MUD, AND OTHER DEBRIS AT ALL TIMES.
- 7.5. THE ROADWAY AND THE ROADWAY SHOULDERS SHALL BE SHORED PROPERLY DURING ALL TRENCHING ACTIVITY. BACKFILLING SHALL MEET MINIMUM COUNTY OR STATE COMPACTION REQUIREMENTS. NO DROP-OFFS ADJACENT TO THE ROADWAY WILL REMAIN AFTER THE SUSPENSION OF WORK.
- 7.6. CONTRACTOR SHALL MAINTAIN DRIVEWAY ACCESS AND POSTAL SERVICE THROUGHOUT THE DURATION OF THE PROJECT.
- 7.7. AT THE SAME TIME AS EROSION CONTROL DEVICES. THE CONTRACTOR SHALL INSTALL TREE PROTECTION DEVICES PRUNING OR TREE LIMBS TO PROVIDE CLEARANCE FOR EQUIPMENT AND MATERIALS SHALL BE DONE ACCORDING TO STANDARD ARBORICULTURAL PRACTICE (SEE ANSI A300-1995).
- 7.9. ANY INFRASTRUCTURE (PAVEMENT, DRAINAGE STRUCTURES, CURB AND GUTTER, SIDEWALKS, SIGNALS, ETC.) DAMAGED OR DISPLACED AS THE RESULT OF THIS PROJECT SHALL BE REPLACED BY THE CONTRACTOR.
- 7.10. CONTRACTOR IS RESPONSIBLE FOR REPLACING IN AND MATCHING ORIGINAL CONDITION ANY LANDSCAPING THAT HAS BEEN DESTROYED OR REMOVED DUE TO THE INSTALLATION OF THE WATER MAIN.

**8. PIPELINE CONSTRUCTION**

- 8.1. THE CONTRACTOR SHALL SCHEDULE ANY SYSTEM SHUTDOWNS, CONNECTIONS TO EXISTING WATER MAINS, AND SERVICE CONNECTIONS WITH THE COBB COUNTY-MARIETTA WATER AUTHORITY, COBB COUNTY WATER SYSTEM AND THE MARIETTA BOARD OF LIGHTS AND WATER.
- 8.2. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING THE EXACT LOCATION, SIZE, AND MATERIAL OF ANY EXISTING WATER MAIN PRIOR TO THE PROPOSED CONNECTIONS AS SHOWN ON THE CONTRACT DRAWINGS.
- 8.3. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING PROPER HORIZONTAL AND VERTICAL ALIGNMENT AS SHOWN ON THE PLANS. BENDS INSTALLED DUE TO CONTRACTOR ERROR OR NEGLIGENCE WILL NOT BE MEASURED FOR PAYMENT.
- 8.4. ALL PIPES, FITTINGS, VALVES, AND RESTRAINT SYSTEMS SHALL BE ABLE TO WITHSTAND A FIELD TEST PRESSURE 1.5 TIMES WORKING PRESSURE OR GREATER.

**COLOR CODES FOR UTILITY LOCATING**

- RED ELECTRIC
- YELLOW GAS-OIL
- ORANGE TELEPHONE/CATV
- BLUE WATER
- GREEN SEWER

IF YOU DIG GEORGIA  
CALL US FIRST!  
1-800-282-7411  
*It's The Law!*

**Utilities Protection Center, Inc.**



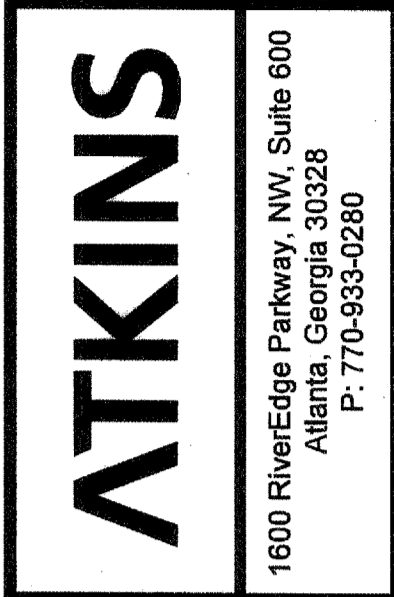
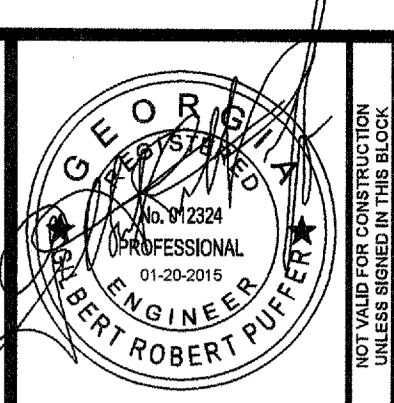
Know what's below  
Call before you dig

UTILITY DISCLAIMER NOTE:

ALL KNOWN UTILITIES HAVE BEEN SHOWN SCHEMATICALLY ON THE PLANS AND MAY NOT BE SHOWN ACCURATELY HORIZONTALLY OR VERTICALLY. UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES HAVING UTILITIES WITHIN OR ADJACENT TO THE WORK AREA. THE CONTRACTOR SHALL HAVE THE UTILITIES FIELD LOCATED AND COORDINATE WITH UTILITY COMPANIES TO HAVE THEM RELOCATED AND ADAPTED FOR TIE-INS.

**RESTRICTIVE WORK HOURS:**

RESTRICTIVE WORK HOURS SHALL BE SUCH THAT NO LANE CLOSURES WILL BE ALLOWED BETWEEN THE HOURS OF 5 A.M. TO 9 A.M. AND 3 P.M. TO 6 P.M. DAILY AND SINGLE OR DOUBLE LANE CLOSURES SHALL BE ALLOWED ONLY IN ONE DIRECTION.



DATE	01/20/2015
REVISION	
FOR BID	
PROJ. No.:	100032548
DESIGNED BY:	GRP
DRAWN BY:	JN
CHECKED BY:	GRP
APPROVED BY:	GRP
DATE:	JAN. 2014
SCALE:	NONE

























COBB COUNTY-MARIETTA WATER AUTHORITY  
HIGHWAY 41 PHASE IV  
WATER MAIN

**GENERAL NOTES**










SHEET No.  
**G-2**  
100032548

**SURVEY LEGEND AND SYMBOLS:**

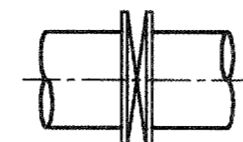
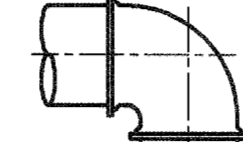
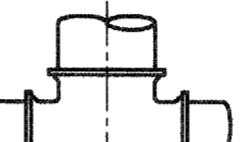
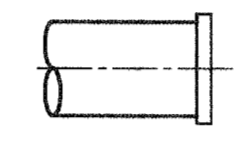


—OHP—	EXISTING OVERHEAD POWER
—OHT—	EXISTING OVERHEAD TELEPHONE
—FOC—	EXISTING FIBER OPTIC CABLE
—TV—	EXISTING OVERHEAD TV
—UTL—	EXISTING UNDERGROUND TELEPHONE LINE
—OHT—	EXISTING OVERHEAD TELEPHONE LINE
—UPL—	EXISTING UNDERGROUND POWER LINE
—W—	EXISTING WATER MAIN
—GND—	EXISTING GROUND WIRE
—UTC—	EXISTING UNDERGROUND TRAFFIC CONTROL
—G—	EXISTING NATURAL GAS MAIN
—UNK—	EXISTING UNDERGROUND UNKNOWN
—UTL—	EXISTING UNDERGROUND TELEPHONE LINE
—EX. RW—	EXISTING RIGHT-OF-WAY
—EX. EOP—	EXISTING EDGE OF PAVEMENT
—FUT. EOP—	FUTURE EDGE OF PAVEMENT
—PL—	EXISTING PROPERTY LINE

	EXISTING SANITARY SEWER
	EXISTING DROP INLET
	EXISTING STORM DRAIN JUNCTION BOX
	EXISTING HEADWALL
	EXISTING CATCH BASIN
	EXISTING ELECTRICAL HANDHOLE
	EXISTING LIGHT POLE
	EXISTING UTILITY POLE
	EXISTING TELEPHONE MANHOLE
	EXISTING TELEPHONE HANDHOLE
	EXISTING COMMUNICATIONS JUNCTION BOX
	EXISTING TRAFFIC BOX
	EXISTING TRAFFIC CONTROL HANDHOLE
	EXISTING WATER METER
	EXISTING GAS REGULATOR
	EXISTING VALVE
	EXISTING WATER VALVE
	EXISTING FIRE HYDRANT
	EXISTING PAVEMENT MARKER
	EXISTING CROSSWALK INDICATOR
	EXISTING TRAFFIC SIGN
	EXISTING SITE FENCE
	EXISTING SITE WALL
	EXISTING TREES

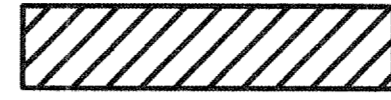
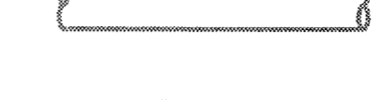


**PROFILE LEGEND AND SYMBOLS:**

	MJ LINE VALVE (SEE PLANS FOR MANWAY ACCESS REQUIREMENTS)
	AIR VACUUM ASSEMBLY (SEE PLANS FOR MANHOLE ACCESS REQUIREMENTS)
	BLOW-OFF ASSEMBLY (SEE PLANS FOR MANHOLE ACCESS REQUIREMENTS)
	MJ BEND
	MJ TEE
	MJ PLUG OR CAP
	MJ SLEEVE
	MANHOLE
	TUNNEL OR PIPE WITH CASING

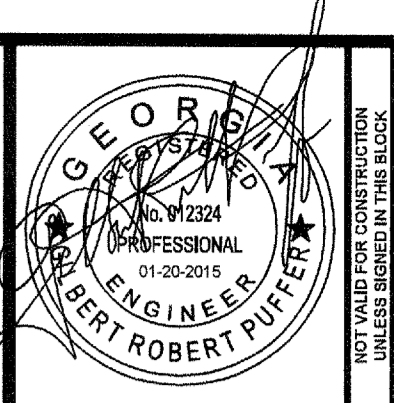
**PLAN LEGEND AND SYMBOLS:**

	MJ LINE VALVE
	MJ BEND
	MJ TEE
	MJ PLUG OR CAP
	MANHOLE OR MANWAY
	FIRE HYDRANT

**LEGEND AND SYMBOLS: (miscellaneous)**

	DEMOLITION
	EXISTING PIPING
	EXISTING WATER, STORM DRAIN, GAS LINE, ELECTRICAL, COMMUNICATION, CROSSING IN PROFILE OR ROAD SECTION
	EXISTING BOX CULVERT CROSSING IN PROFILE

Hwy 41 Tunnel, Phase IV Control Points				
Point	Northing	Eastng	Elevation	Description
1	1415518.85	2202560.55	1001.24	1/2" REBAR SET
2	1416052.12	2202142.13	959.62	1/2" REBAR SET
3	1418459.60	2200293.64	953.38	1/2" REBAR SET
5	1420541.26	2198704.42	1033.41	1/2" REBAR SET
6	1421049.15	2198316.83	1026.47	1/2" REBAR SET
7	1424482.21	2195699.90	1017.21	1/2" REBAR SET
8	1425014.79	2195293.22	1002.77	1/2" REBAR SET
9	1416424.68	2201873.28	930.15	MAG NAIL SET
10	1416832.89	2201557.49	900.01	MAG NAIL SET
11	1417251.09	2201224.64	903.10	60D NAIL SET
12	1417673.52	2200907.39	930.62	MAG NAIL SET
13	1418067.37	2200601.13	939.97	MAG NAIL SET
14	1419629.19	2199399.51	1033.23	60D NAIL SET
15	1420040.68	2199083.31	1054.09	60D NAIL SET
16	1421446.47	2198028.90	1003.41	MAG NAIL SET
17	1422057.41	2197544.28	955.01	60D NAIL SET
18	1422527.79	2197184.97	958.97	60D NAIL SET
19	1423004.03	2196831.97	979.79	60D NAIL SET
20	1423461.67	2196481.61	985.24	60D NAIL SET
21	1424078.24	2196010.65	1004.14	60D NAIL SET
301	1421679.01	2197807.45	981.68	SPUR 60D NAIL SET
302	1417031.29	2201408.11	896.72	60D NAIL SET
303	1416434.36	2201864.72	929.30	60D NAIL SET
304	1416036.04	2202165.44	961.44	60D NAIL SET
305	1415542.58	2202527.94	999.44	60D NAIL SET
306	1415850.42	2202421.91	981.20	60D NAIL SET
307	1415298.51	2202720.26	1007.85	SPUR 60D NAIL SET
308	1416317.70	2202062.28	943.10	60D NAIL SET
309	1416863.18	2201645.51	901.07	60D NAIL SET
310	1417640.05	2201052.81	926.00	MAG NAIL SET
311	1417540.74	2200882.22	925.40	SPUR 60D NAIL SET
312	1418334.23	2200265.38	951.84	SPUR 60D NAIL SET
350	1422954.61	2196864.15	978.08	60D NAIL SET
351	1423339.25	2196572.26	984.31	MAG NAIL SET
352	1423732.44	2196281.96	988.33	60D NAIL SET
353	1424203.73	2196024.65	1009.35	60D NAIL SET
354	1423667.69	2196445.45	988.14	60D NAIL SET
355	1423146.66	2196829.87	982.78	60D NAIL SET
356	1422596.00	2197245.86	959.65	60D NAIL SET
357	1421897.34	2197428.95	954.47	SPUR 60D NAIL SET
358	1422156.81	2197692.68	947.77	SPUR 60D NAIL SET
359	1416859.57	2201763.21	890.45	SPUR 60D NAIL SET



**ATKINS**  
 1800 RiverEdge Parkway, NW, Suite 600  
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 P. 770-933-0280

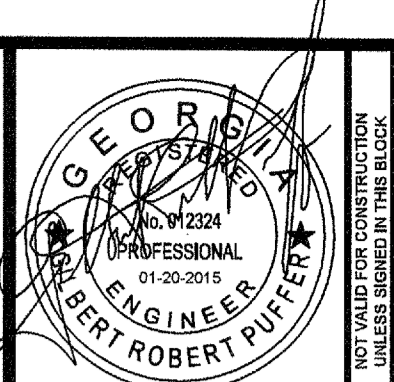
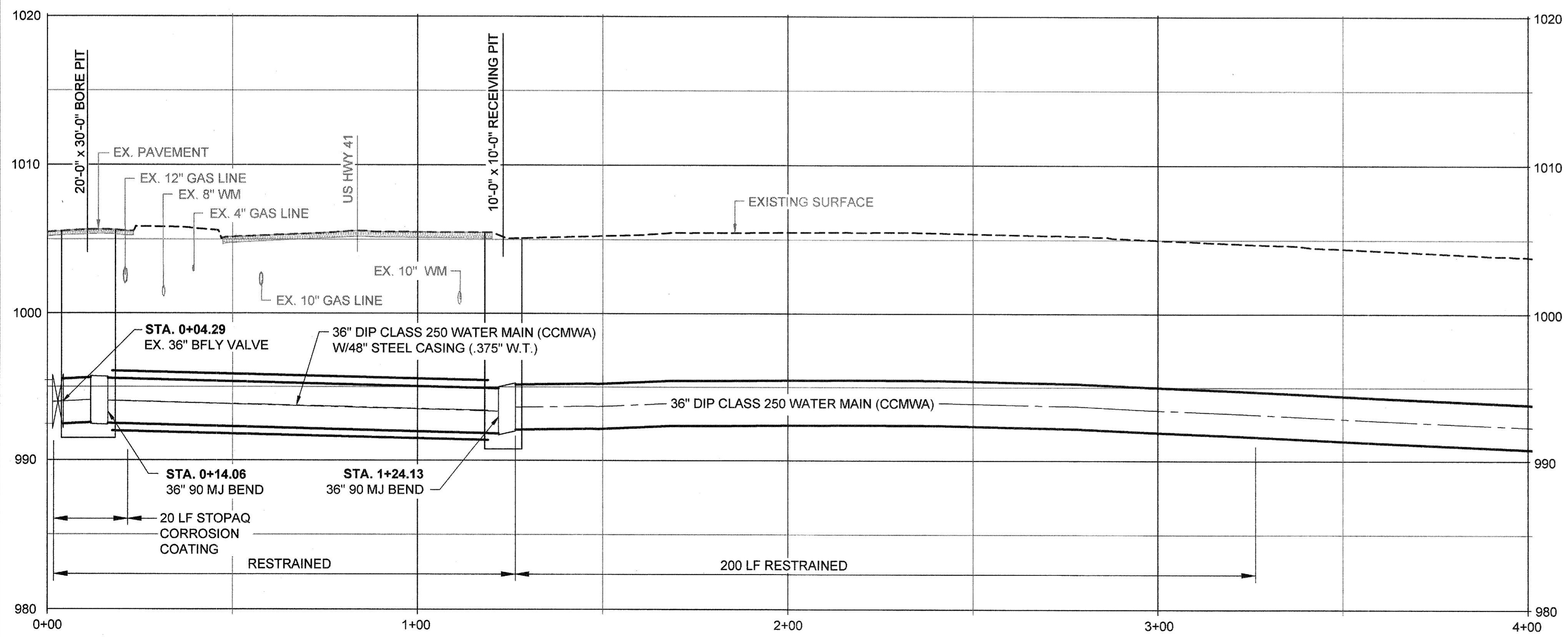
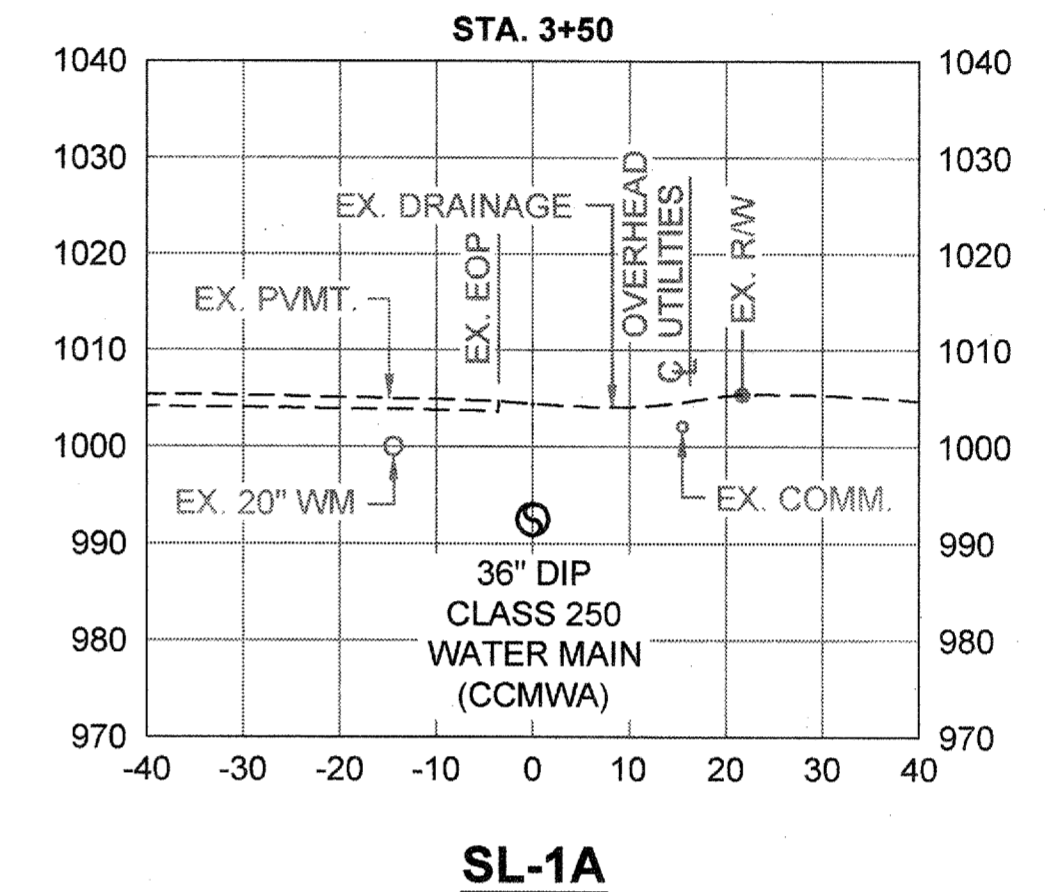
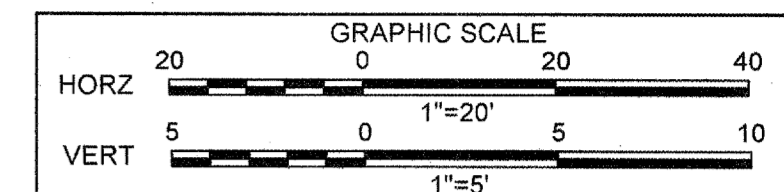
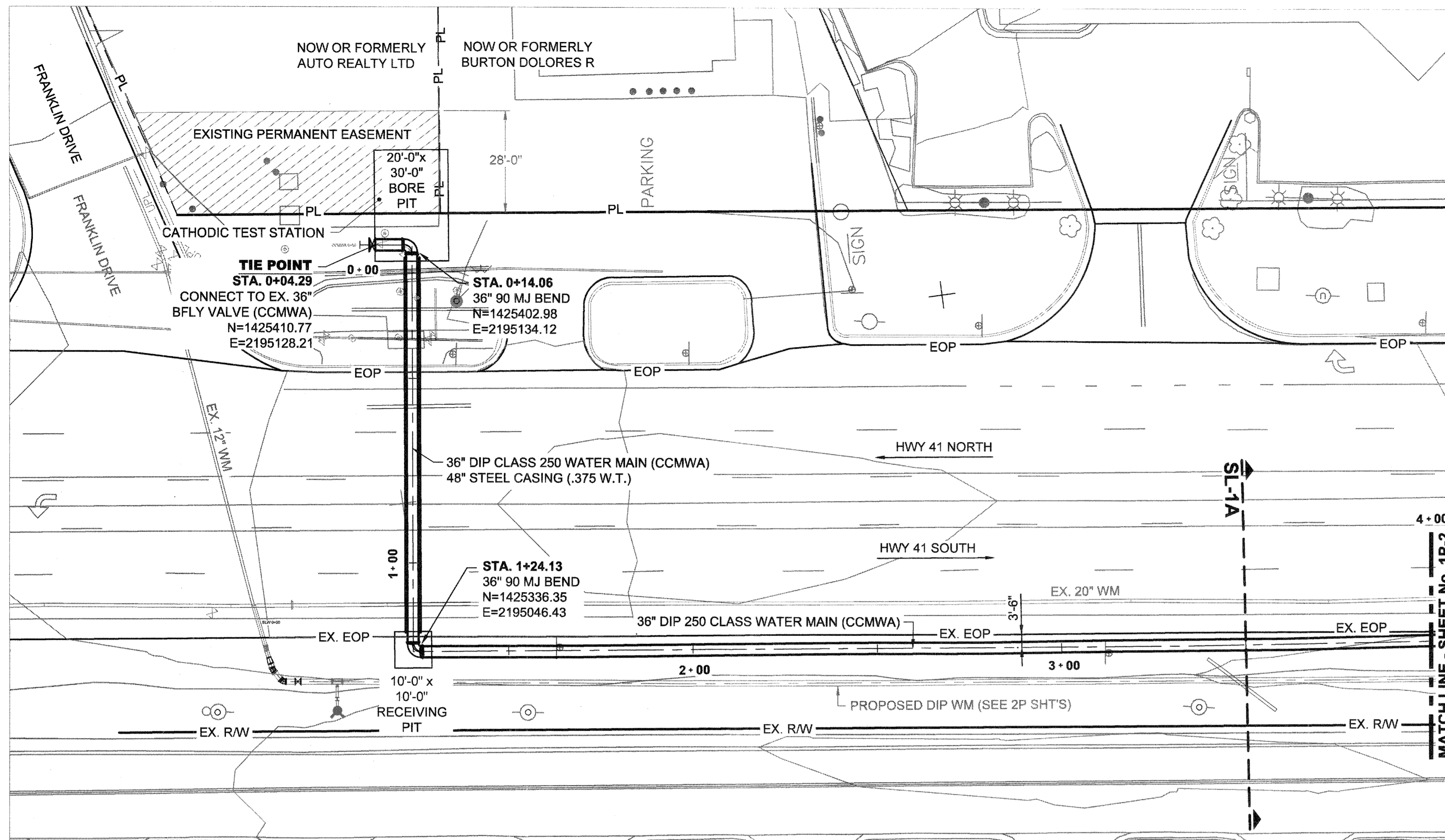


DATE	REVISION	FOR BID
01/20/2015		

PROJ. No.: 100032548	DESIGNED BY: GRP	DESIGNED BY: GRP
	DRAWN BY: JN	CHECKED BY: GRP
		APPROVED BY: GRP
		DATE: JAN. 2014
		SCALE: AS SHOWN

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN  
**LEGEND, SYMBOLS  
 AND  
 SURVEY CONTROL POINTS**

File Name: C:\p\_wor\work\ATKNAE101\NEM7482\DWG00987\WATER MAINS - G-01, G-02, G-03.DWG\Tab C-3\Plattee: February 18, 2015 2:47pm



**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-833-0280

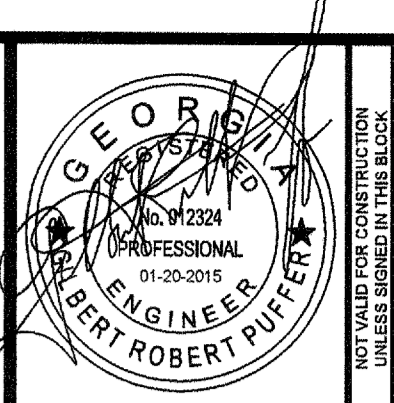
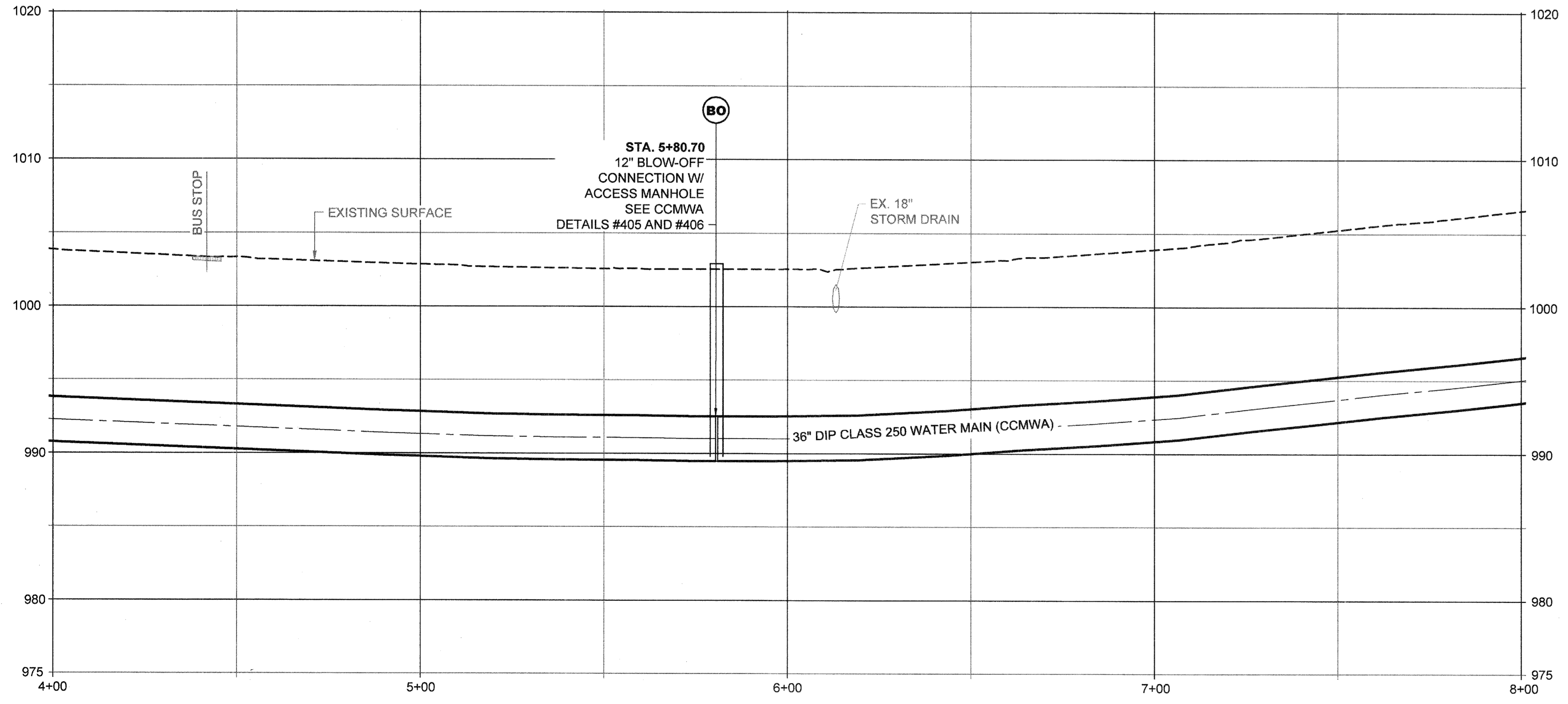
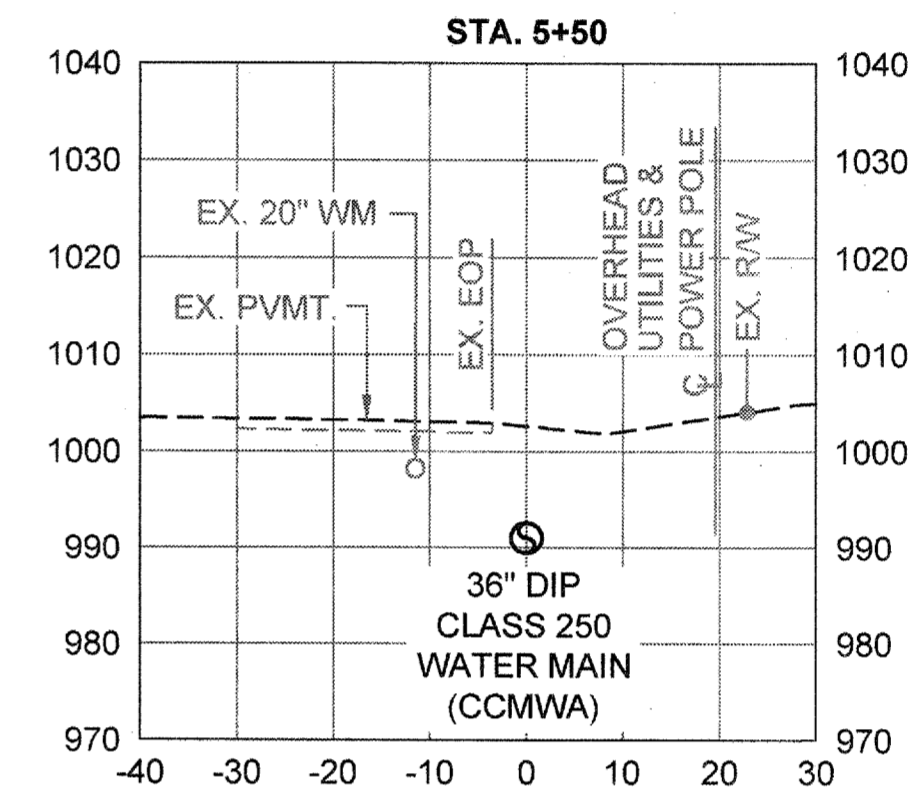
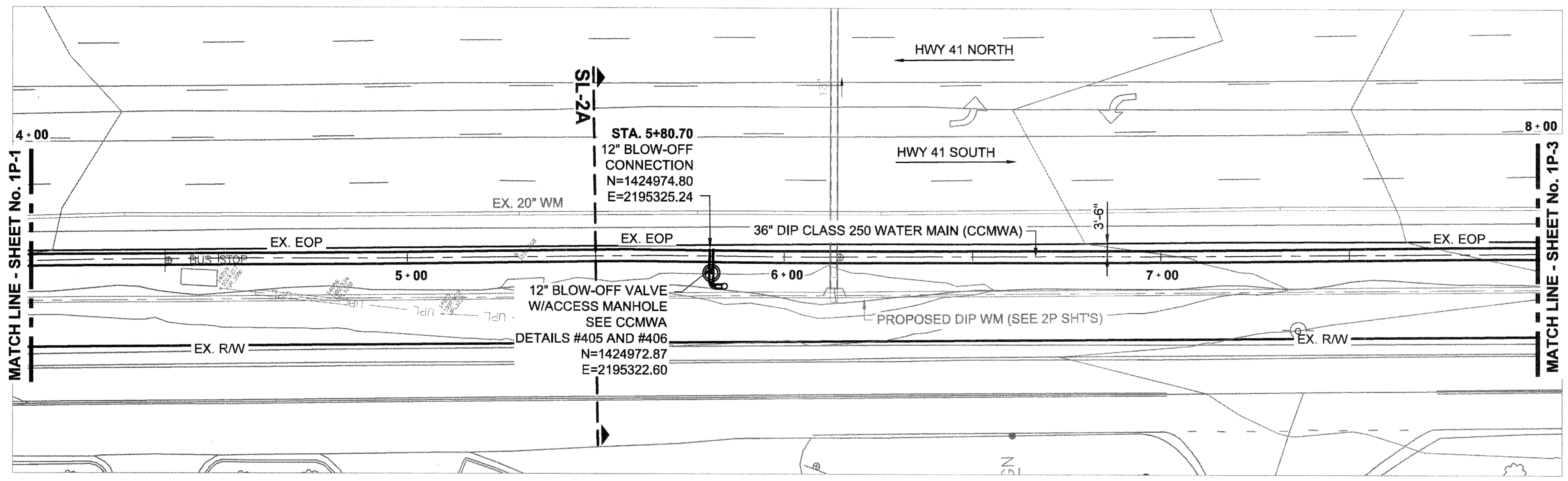
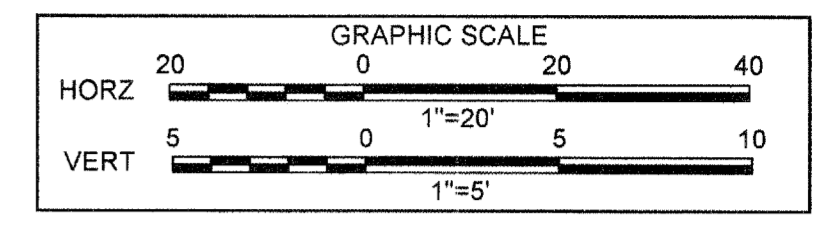
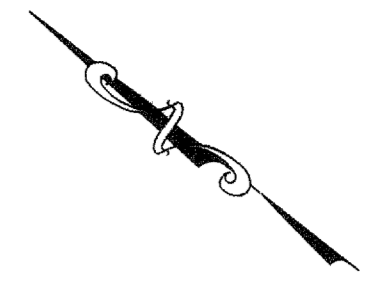


DATE	REVISION	FOR BID
01/20/2015		

PROJ. No.: 100032548  
 DESIGNED BY: GRP  
 DRAWN BY: JN  
 CHECKED BY: GRP  
 APPROVED BY: GRP  
 DATE: JAN. 2015  
 SCALE: AS SHOWN

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN  
**PLAN, PROFILE, SECTION**  
 SHEET No.  
**1P-1**  
 100032548

File Name: C:\PW\WORK\ATKNAE101\NEW7482\DWG\0998\00 - PLANS\_PROFS\_SECTS\_DETAILS.DWG | Job: IP-1 | Plotted: February 18, 2015 2:53pm



**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-893-0280



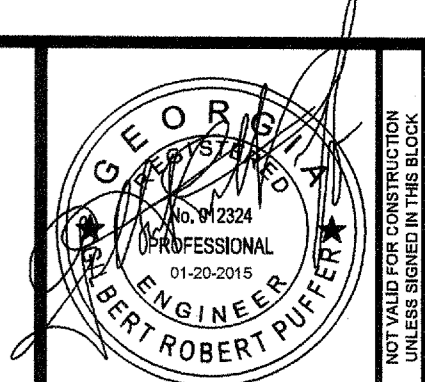
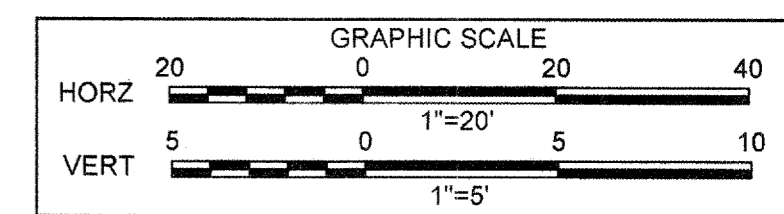
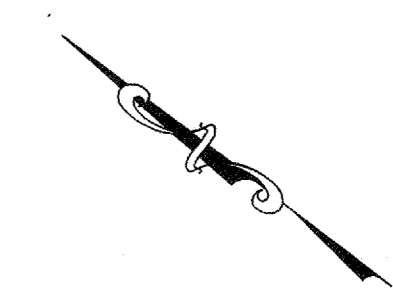
DATE	REVISION
01/20/2015	FOR BID

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN

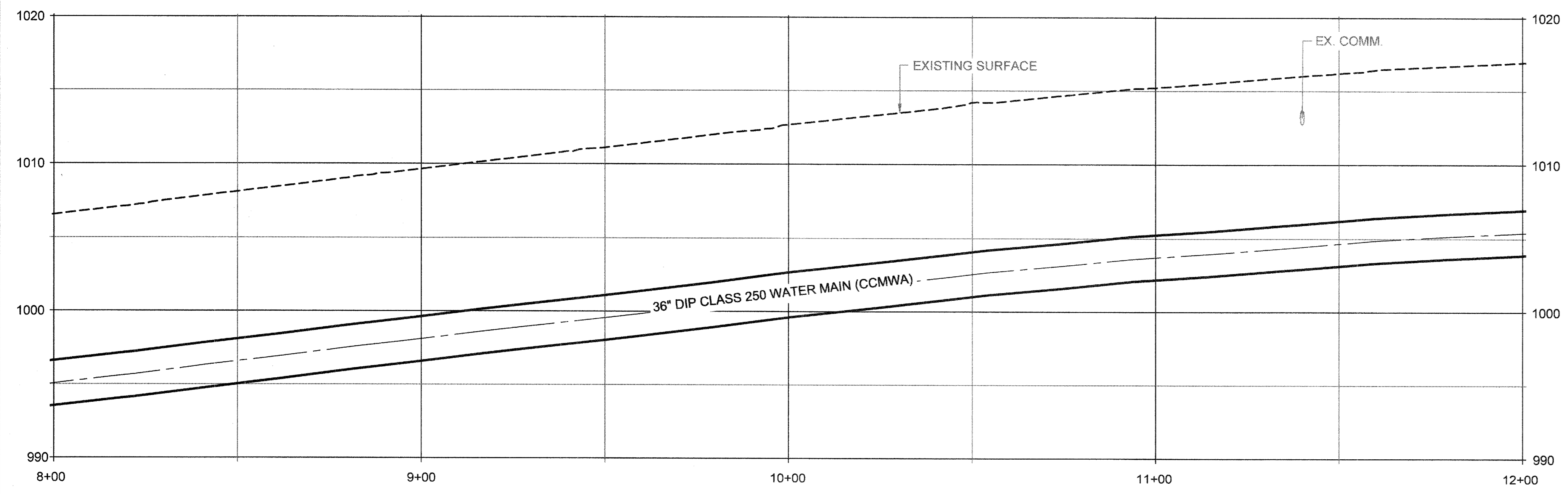
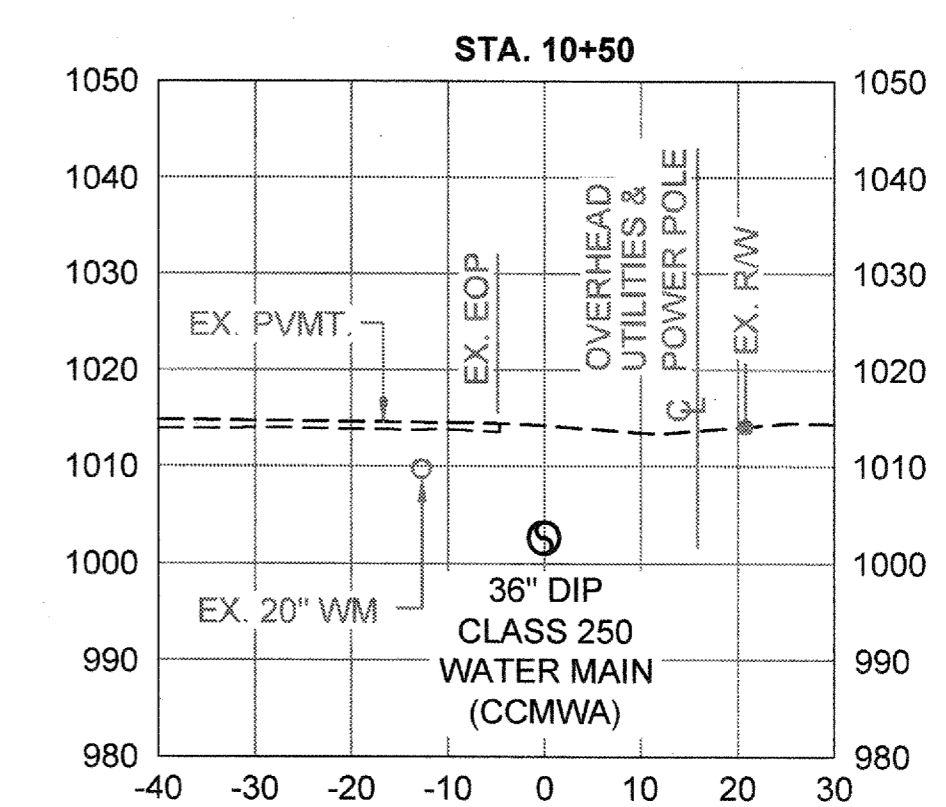
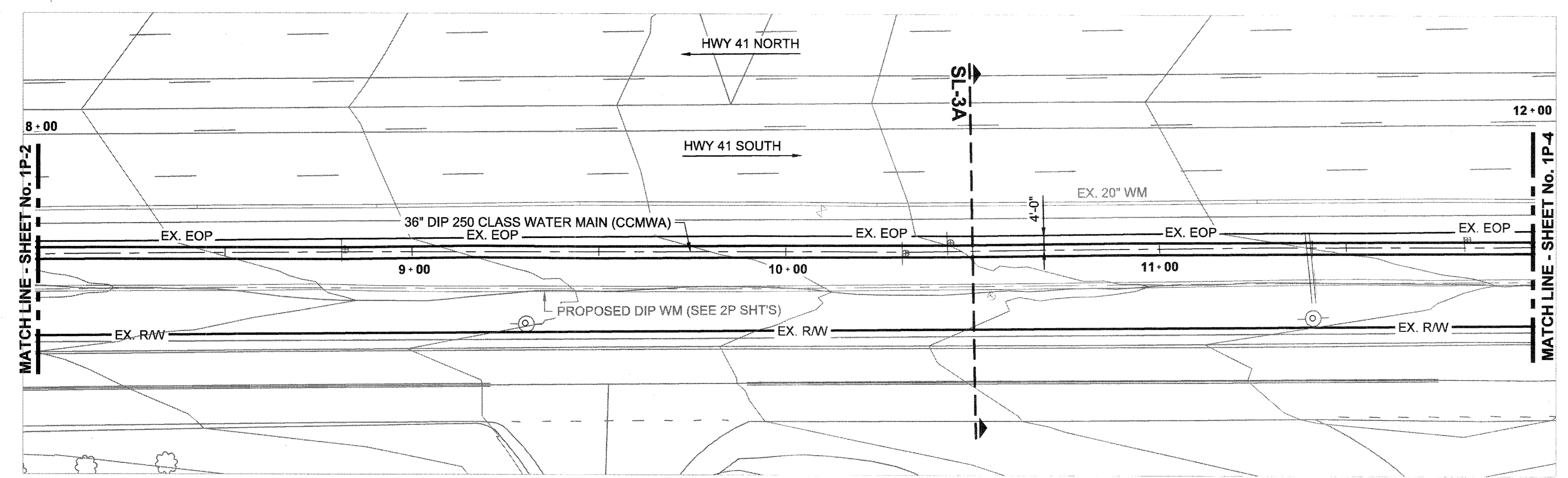
DESIGNED BY: GRP  
 DRAWN BY: JN  
 CHECKED BY: GRP  
 APPROVED BY: GRP  
 DATE: JAN. 2015  
 SCALE: AS SHOWN

SHEET No.  
**1P-2**  
 100032548

File Name: C:\PW\_WORK\ATKNAELOT\WEMM7482\DWG\DETAILS\DWG\1P-2\1P-2.dwg; Date: February 18, 2015 2:59pm



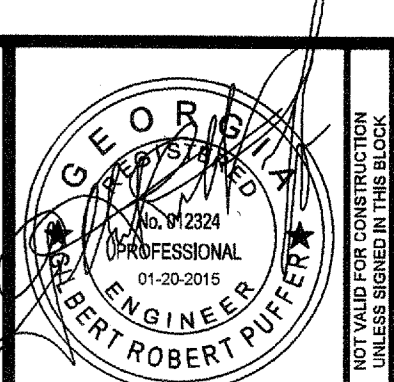
**ATKINS**  
 1800 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-833-0280



REVISION	DATE
FOR BID	01/20/2015

PROJ. No.: 100032548  
 DESIGNED BY: GRP  
 DRAWN BY: JN  
 CHECKED BY: GRP  
 APPROVED BY: GRP  
 DATE: JAN. 2015  
 SCALE: AS SHOWN

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN  
**PLAN, PROFILE, SECTION**  
 SHEET No.  
**1P-3**  
 100032548



**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P. 770-933-0280

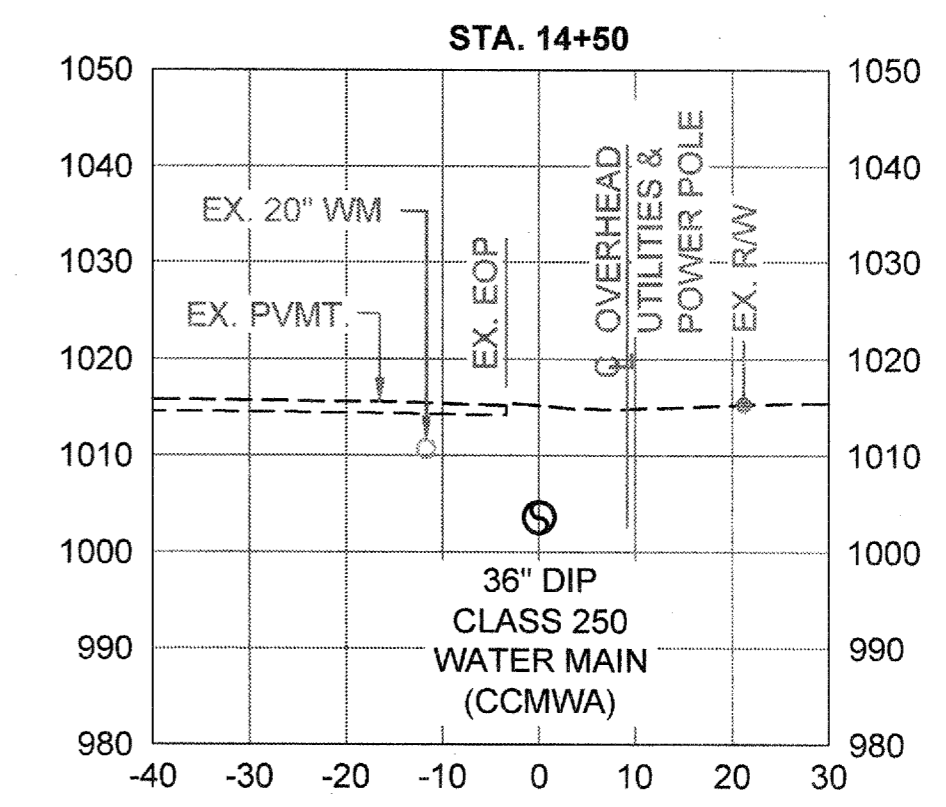
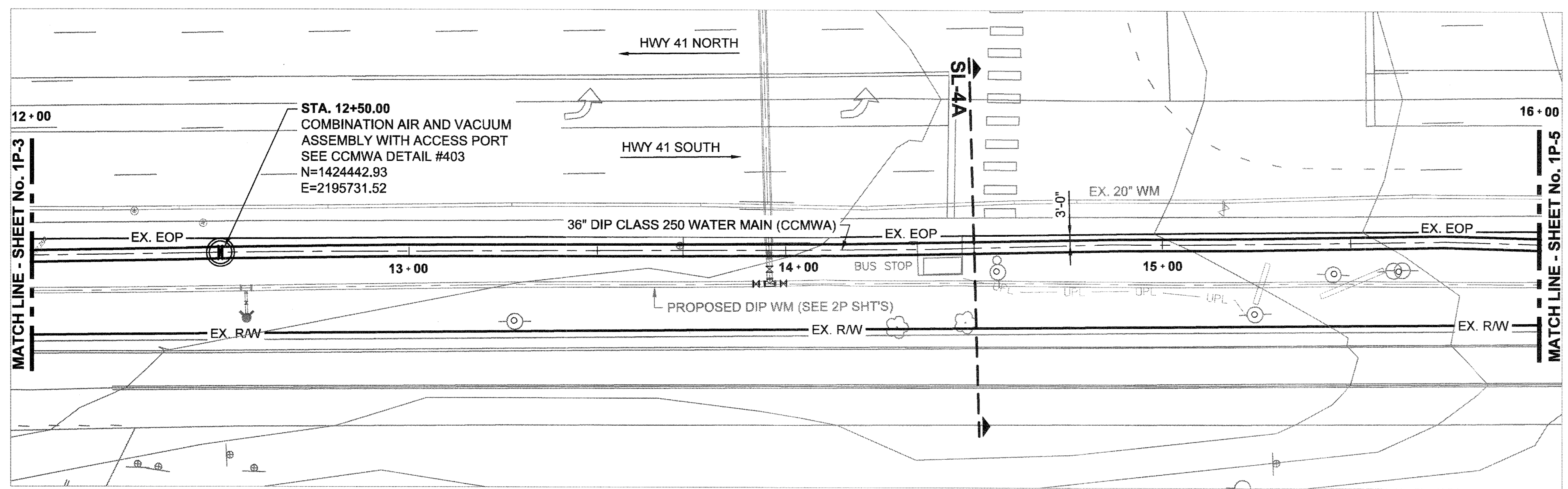
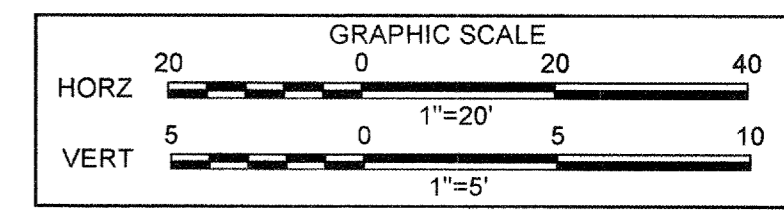
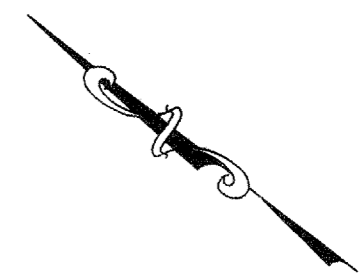


DATE	REVISION
01/20/2015	FOR BID

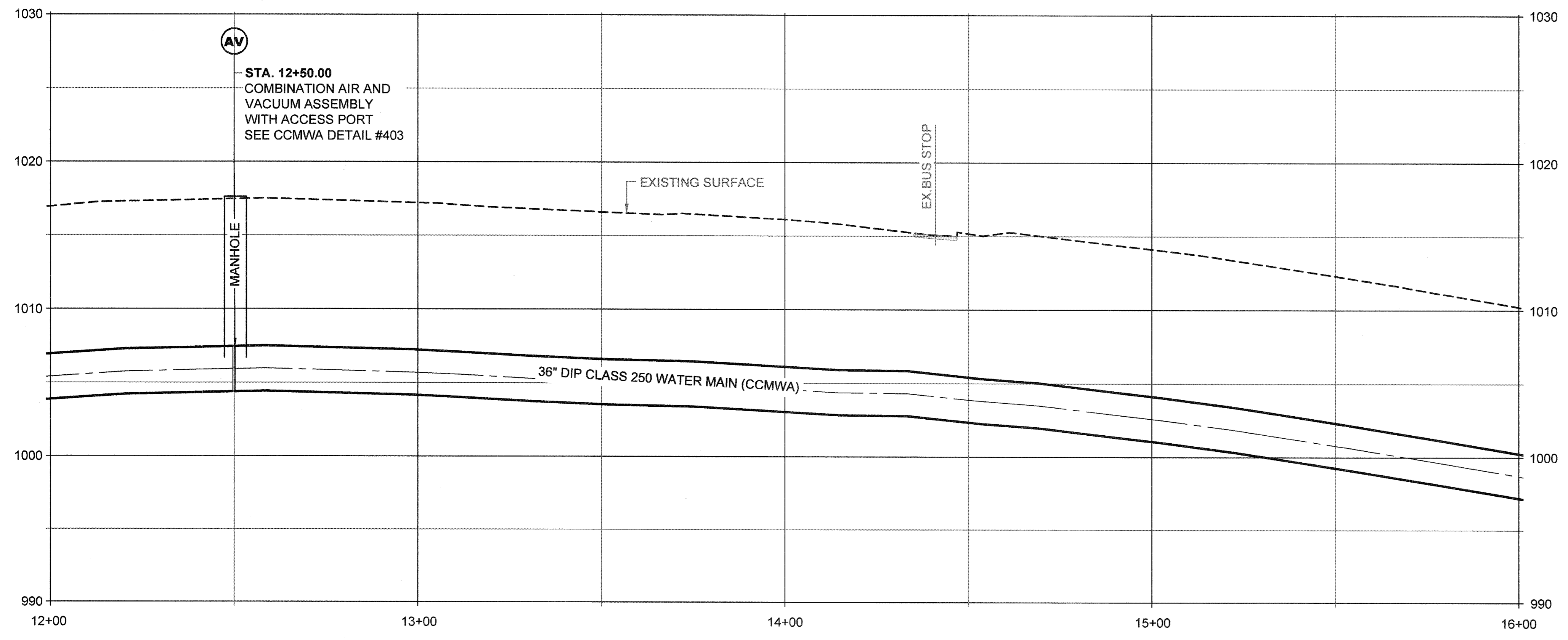
COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN

DESIGNED BY: GRP  
 DRAWN BY: JN  
 CHECKED BY: GRP  
 APPROVED BY: GRP  
 DATE: JAN. 2015  
 SCALE: AS SHOWN

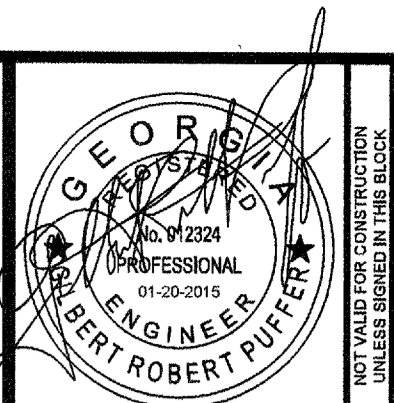
SHEET No.  
**1P-4**  
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**SL-4A**







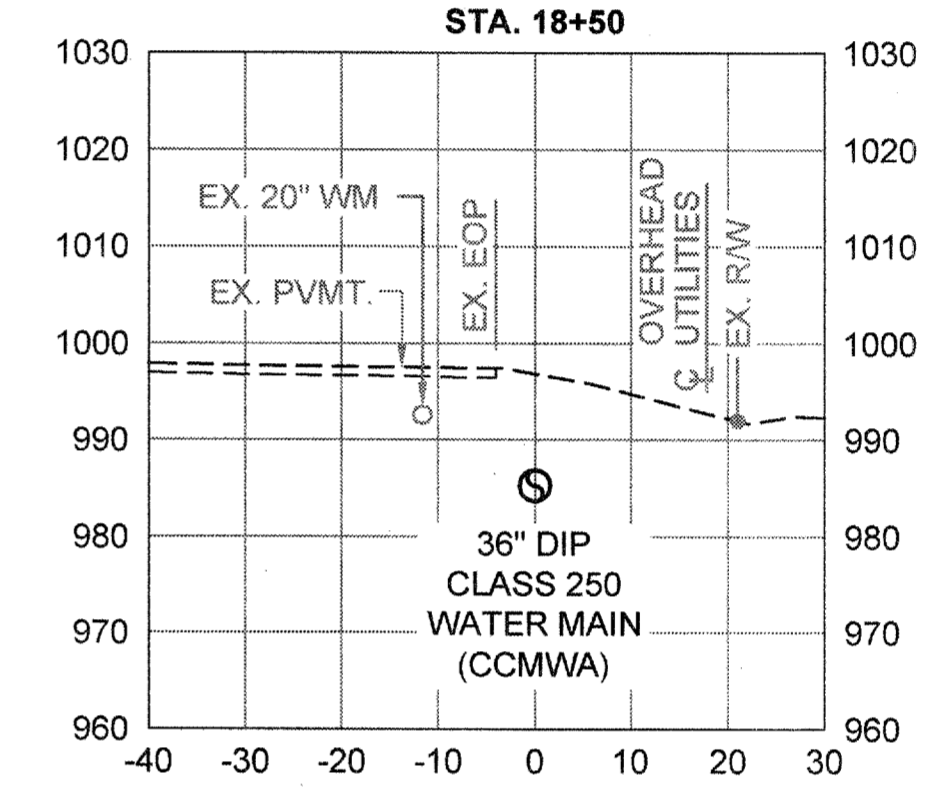
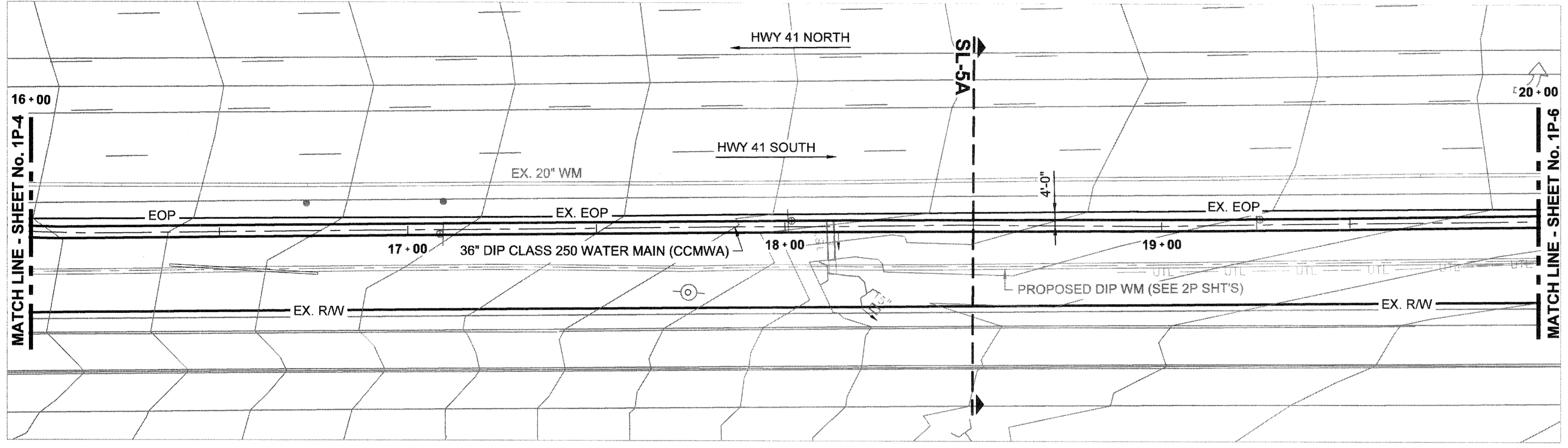
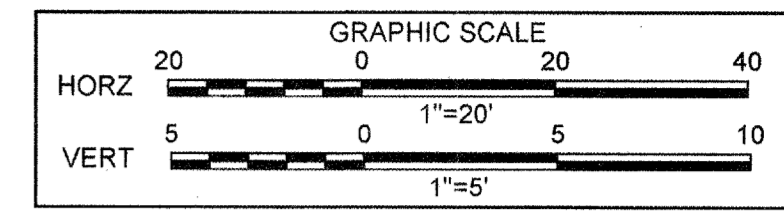
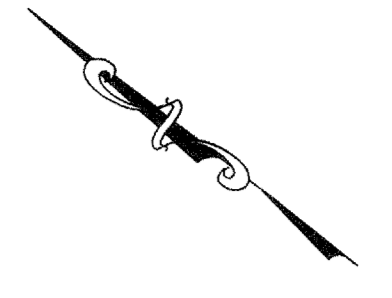
**ATKINS**  
 1800 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P. 770-933-0280



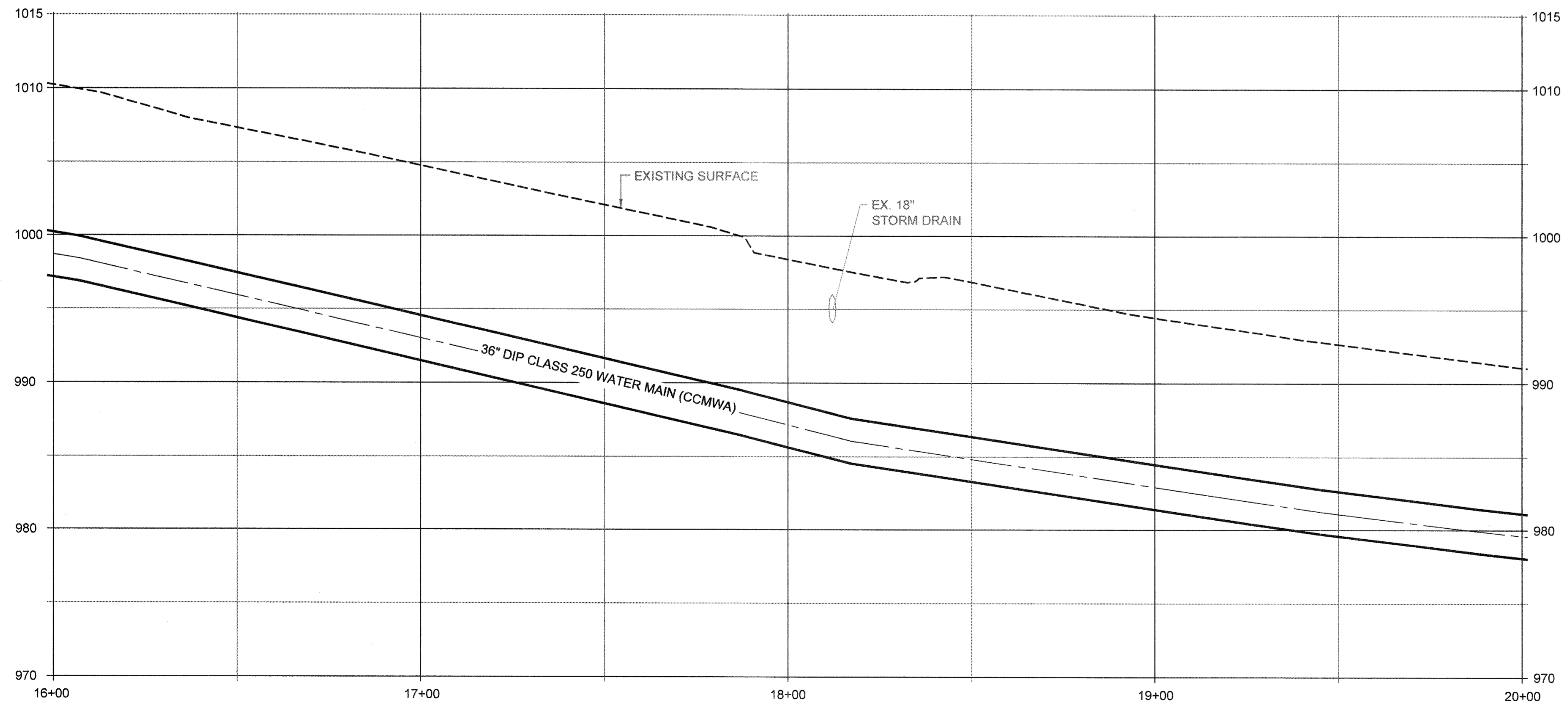
REVISION	DATE
FOR BID	01/20/2015

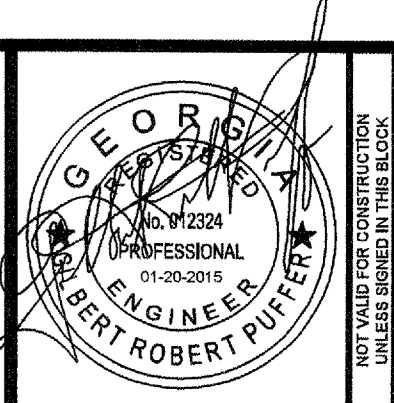
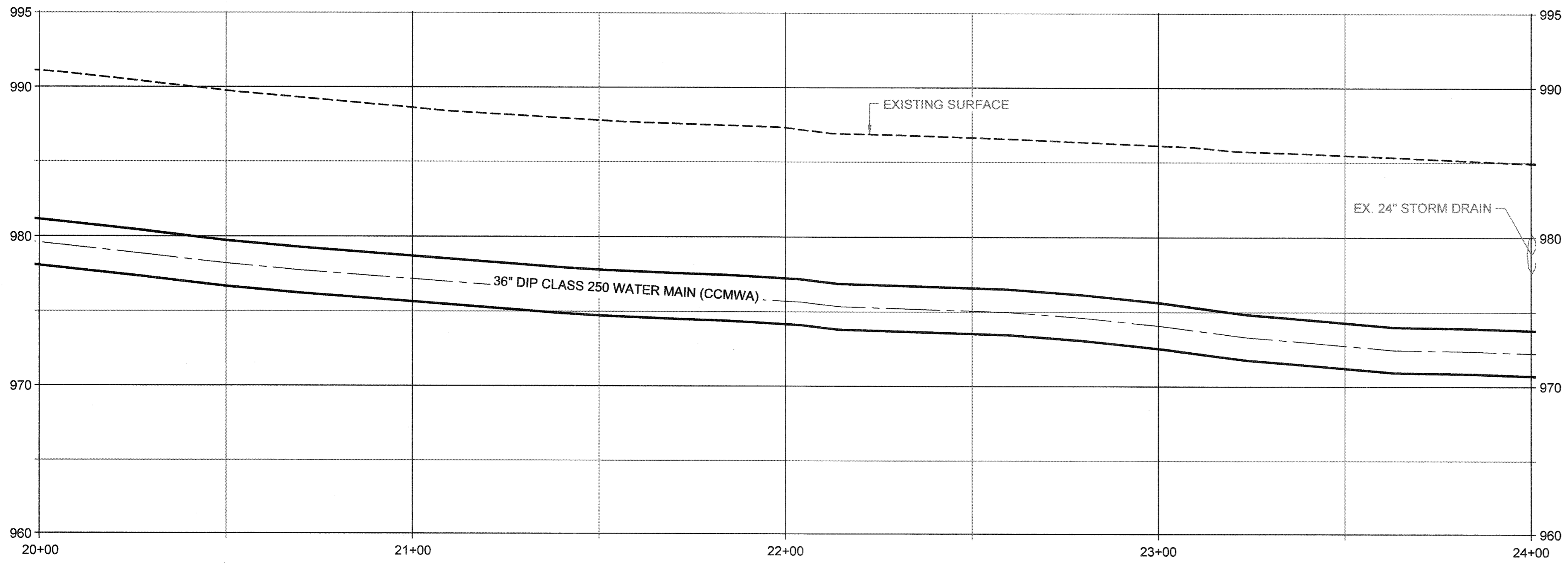
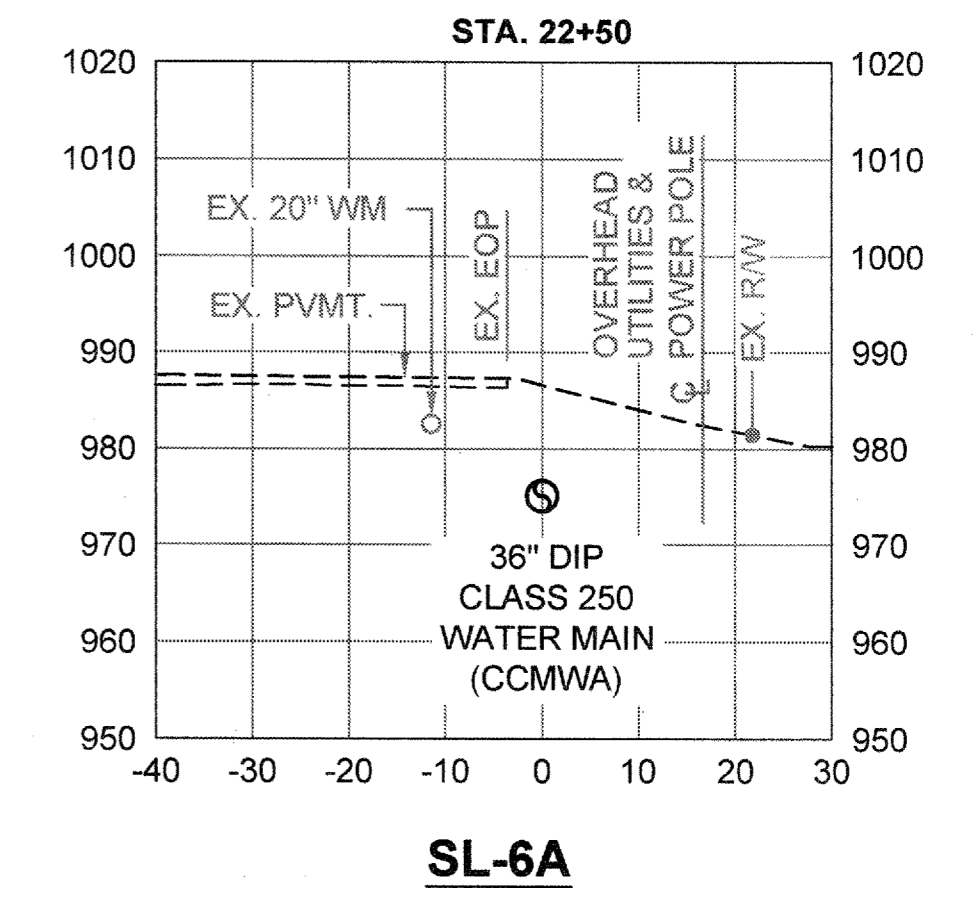
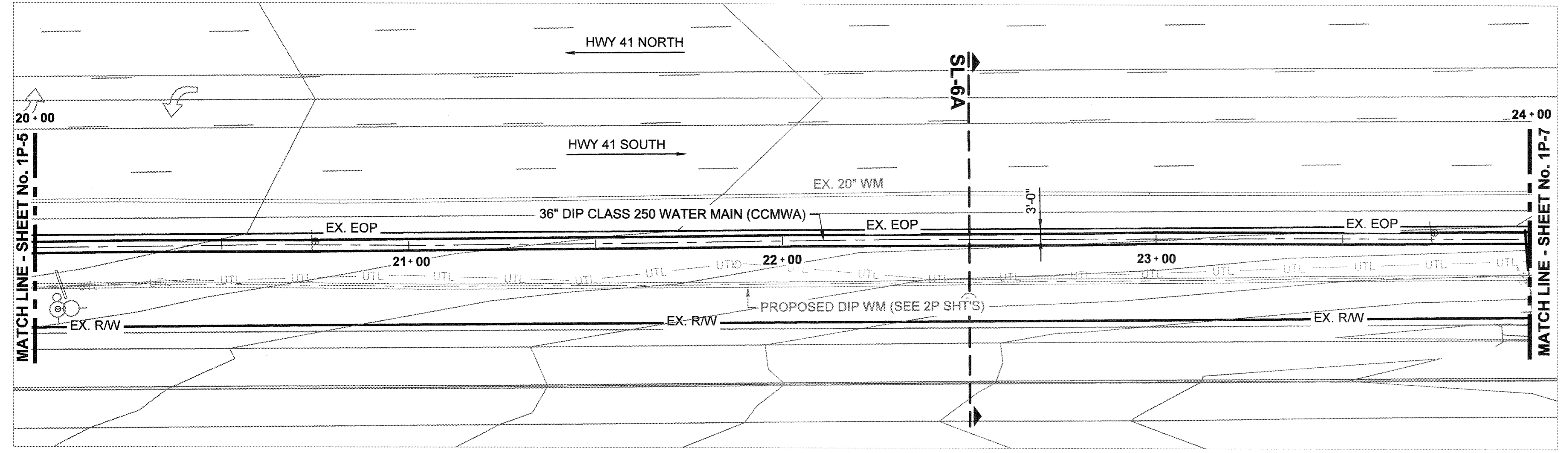
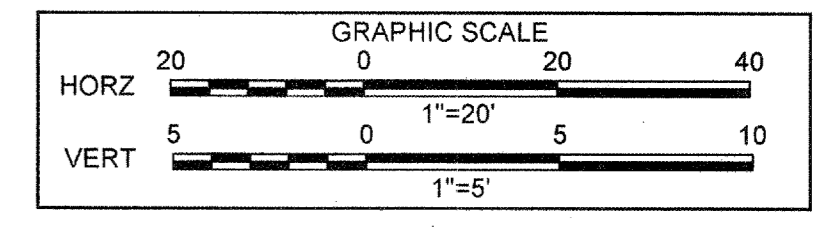
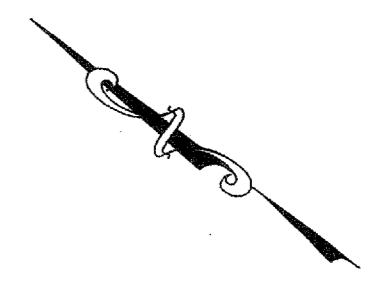
PROJ. No.: 100032548  
 DESIGNED BY: GRP  
 DRAWN BY: JIN  
 CHECKED BY: GRP  
 APPROVED BY: GRP  
 DATE: JAN. 2015  
 SCALE: AS SHOWN

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN  
**PLAN, PROFILE, SECTION**  
 SHEET No.  
**1P-5**  
 100032548



**SL-5A**





**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-993-0280

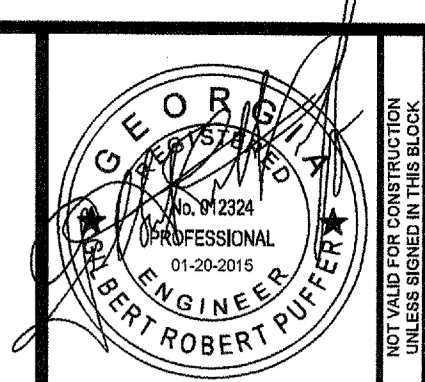


REVISION	DATE
FOR BID	01/20/2015

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN

DESIGNED BY: GRP  
 DRAWN BY: JN  
 CHECKED BY: GRP  
 APPROVED BY: GRP  
 DATE: JAN, 2015  
 SCALE: AS SHOWN

SHEET No.  
**1P-6**  
 100032548



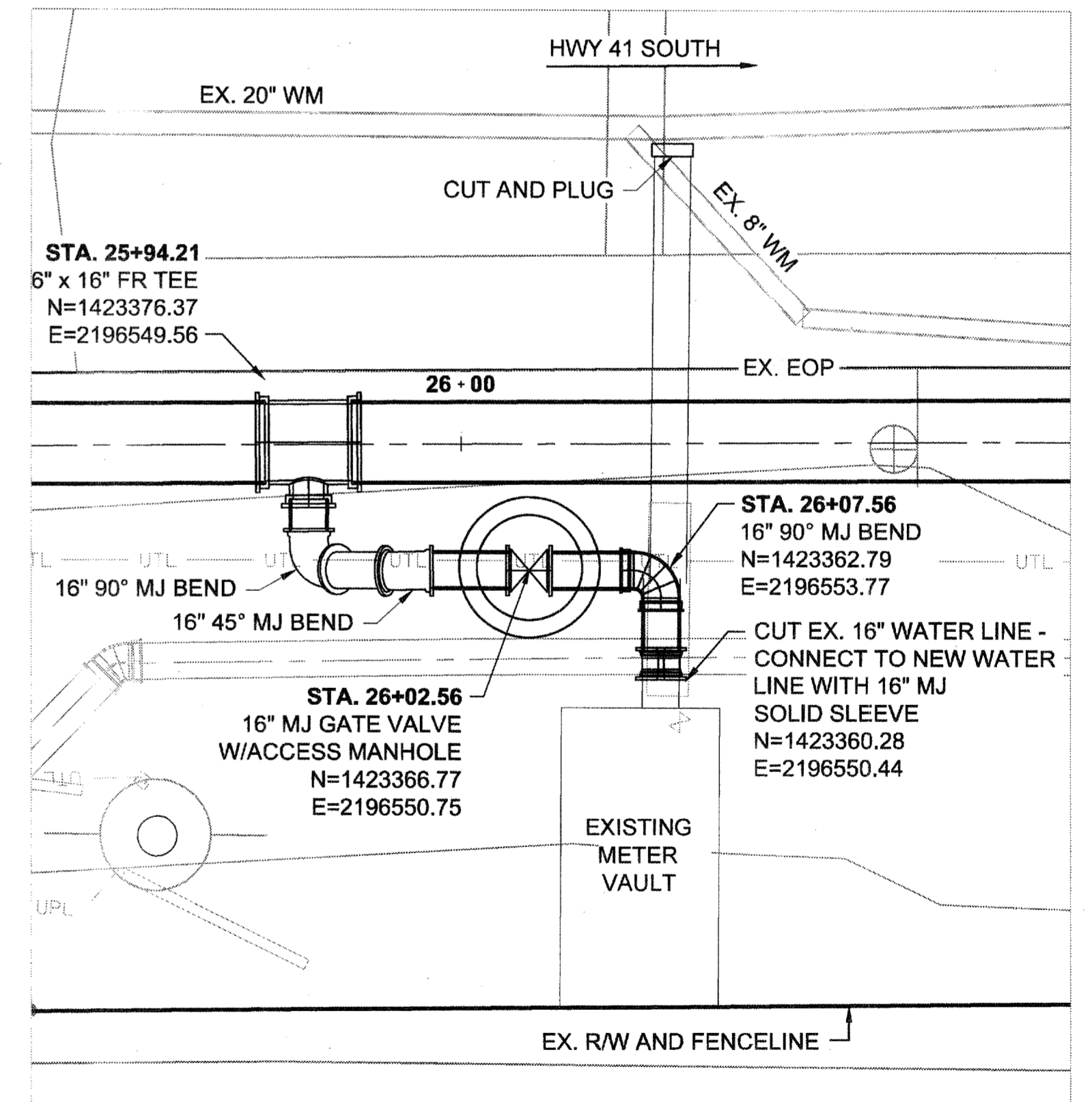
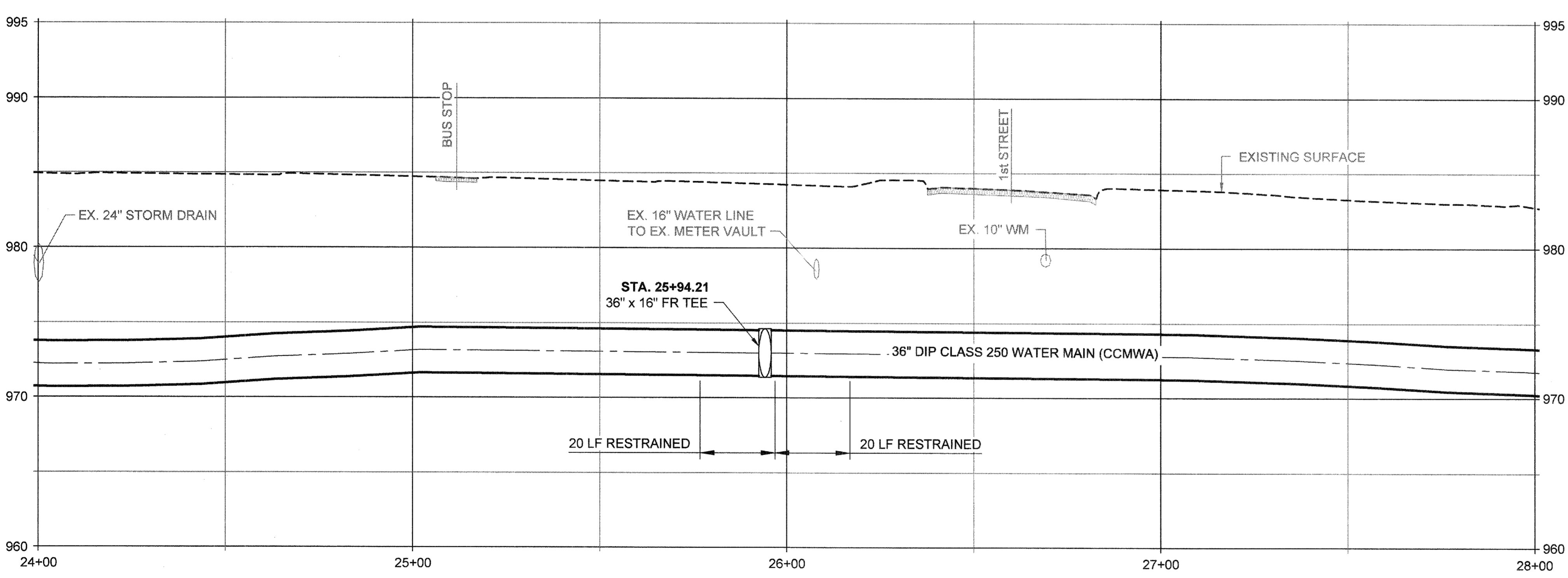
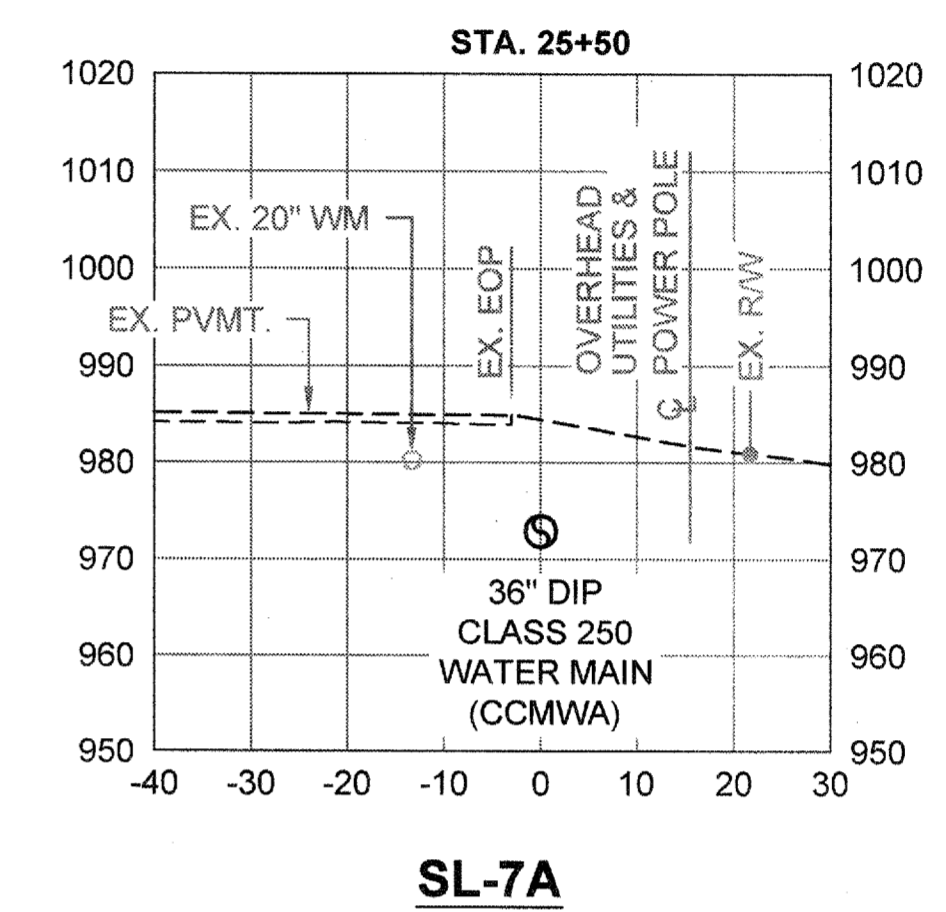
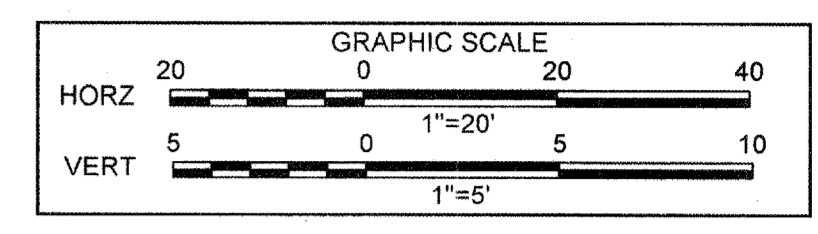
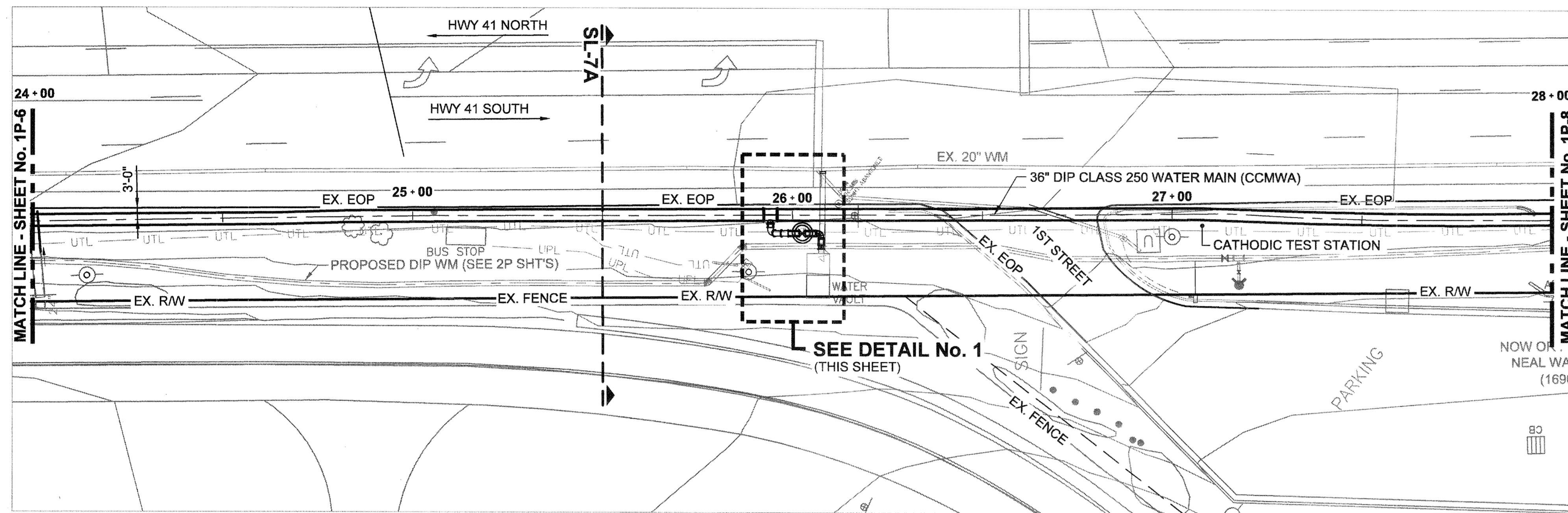
**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 800  
 Atlanta, Georgia 30328  
 P: 770-833-0280



DATE	REVISION
01/20/2015	
	FOR BID
	DESIGNED BY: GRP
	DRAWN BY: JN
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	APPROVED BY: GRP
	DATE: JAN. 2015
	SCALE: AS SHOWN

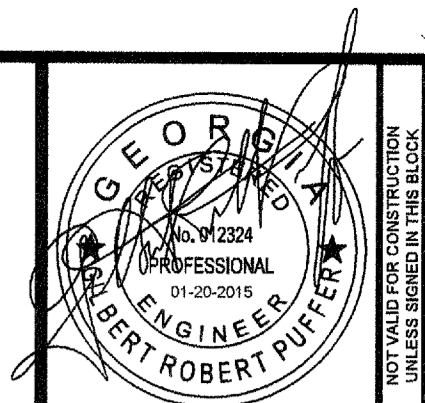
COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN  
**PLAN, PROFILE, SECTION,  
 DETAIL**

SHEET No.  
**1P-7**  
 100032548



**DETAIL No. 1**  
 SCALE: NTS  
 (CONNECTION TO EXISTING METER VAULT AT DOBBINS)

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**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P. 770-833-0280

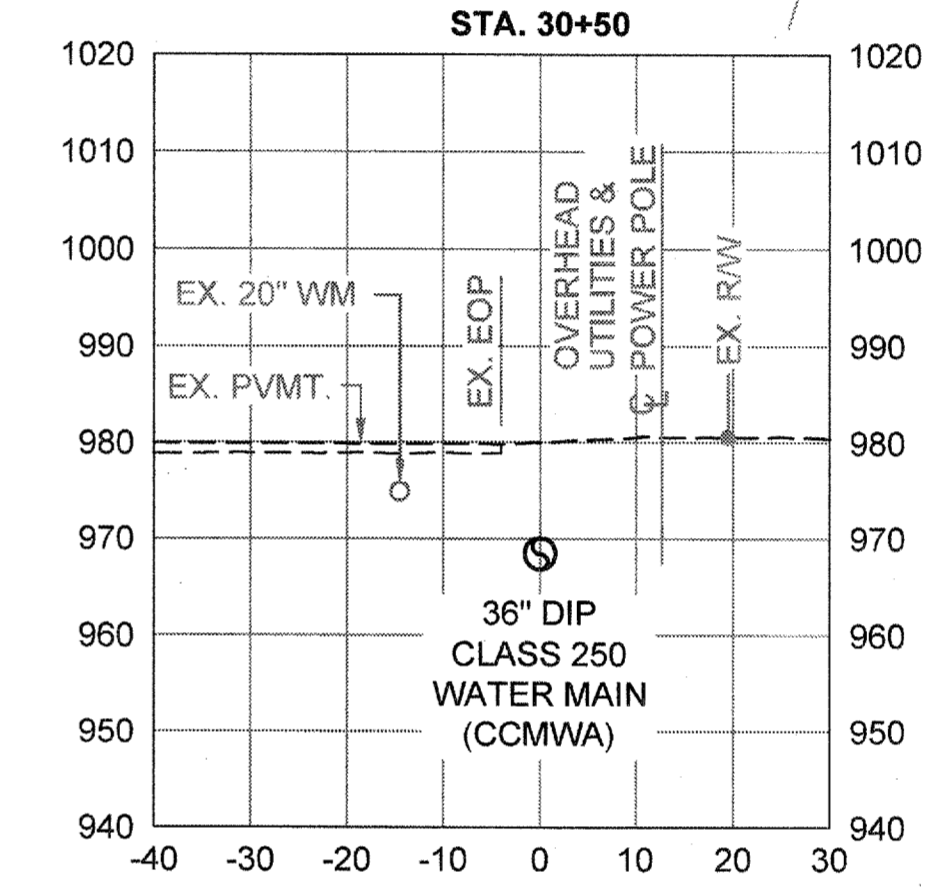
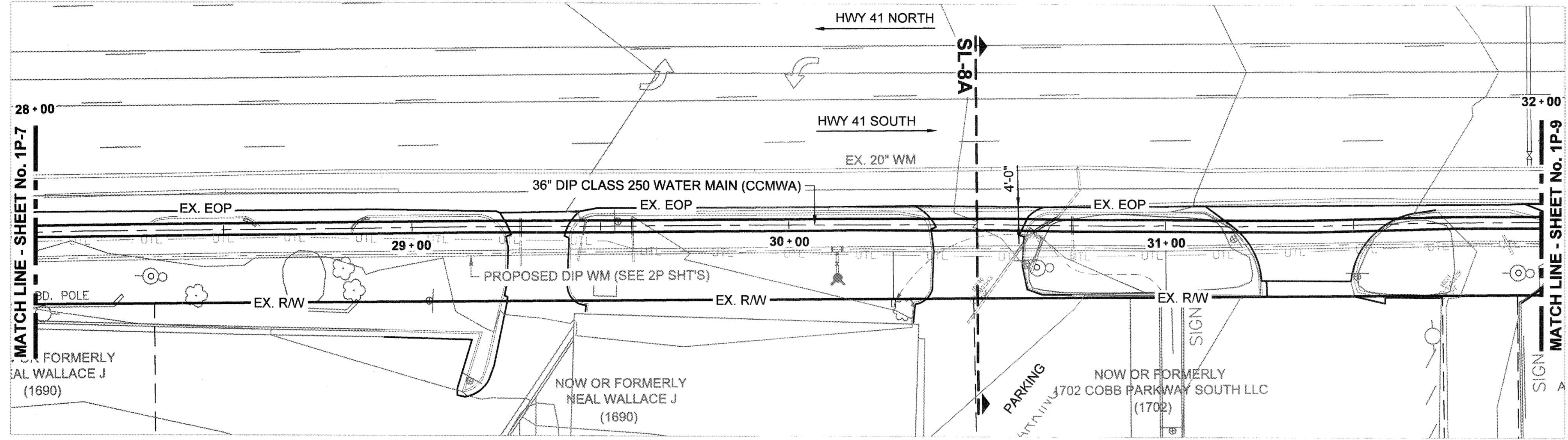
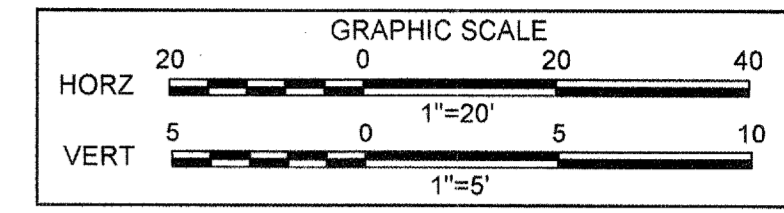
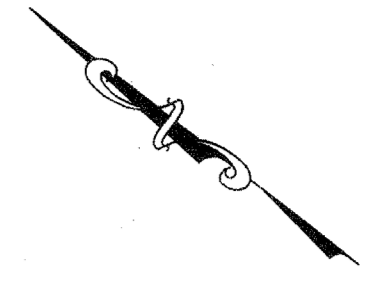


REVISION	DATE
FOR BID	01/20/2015

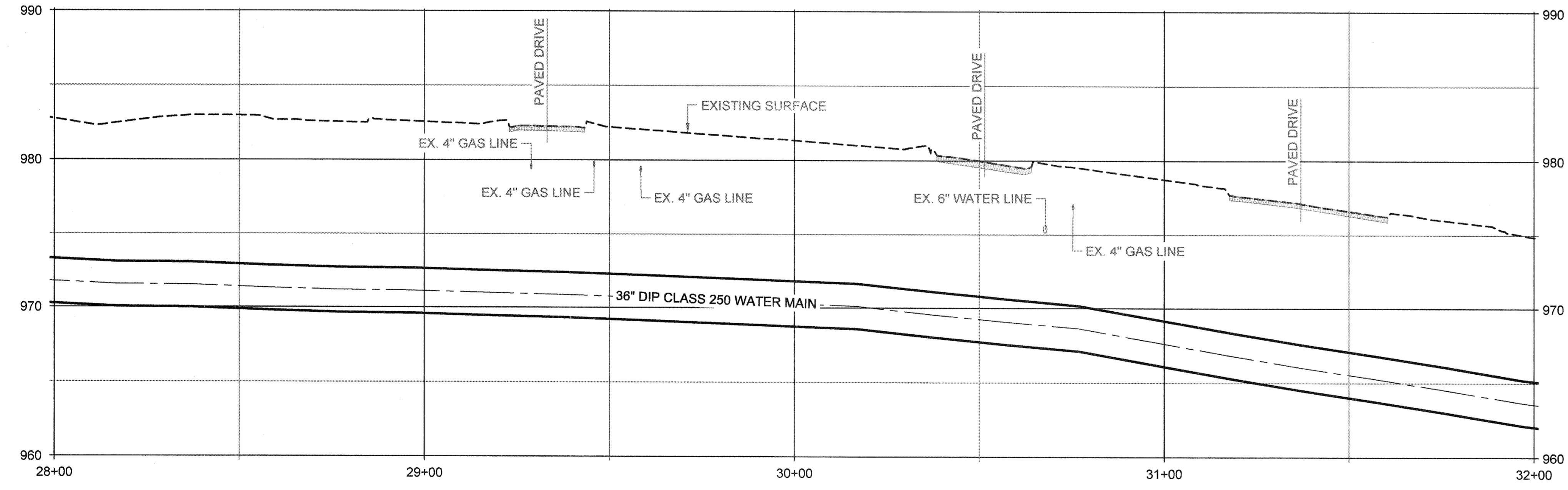
COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN

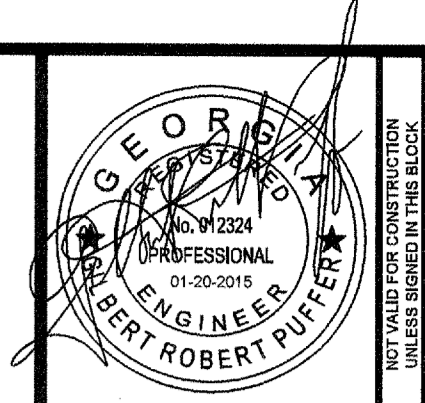
DESIGNED BY: GRP  
 DRAWN BY: JIN  
 CHECKED BY: GRP  
 APPROVED BY: GRP  
 DATE: JAN. 2015  
 SCALE: AS SHOWN

SHEET No.  
**1P-8**  
 100032548



**SL-8A**





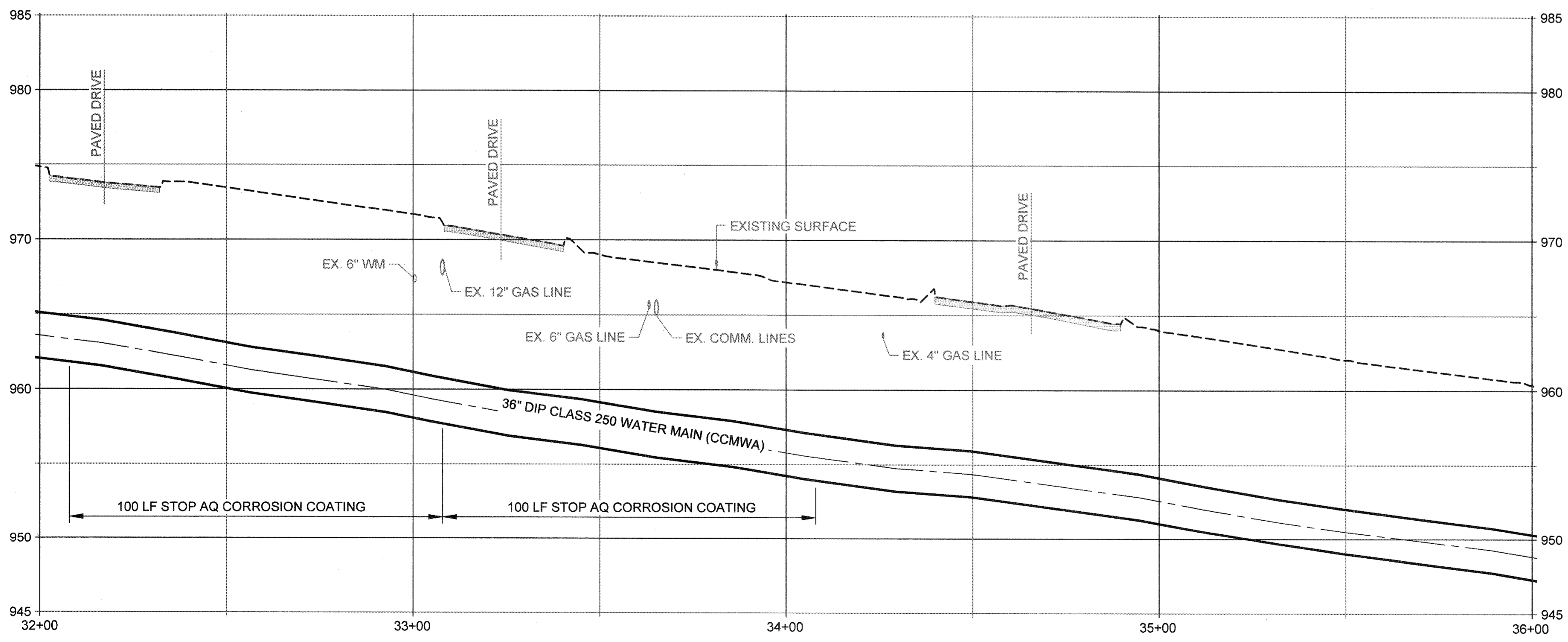
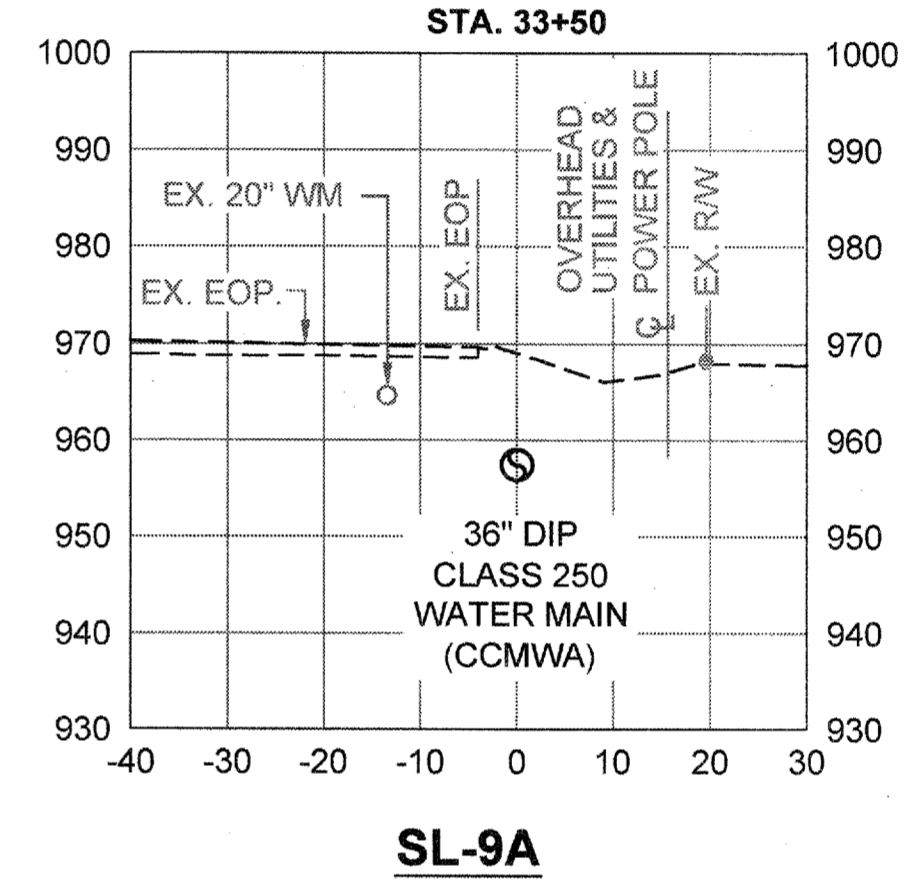
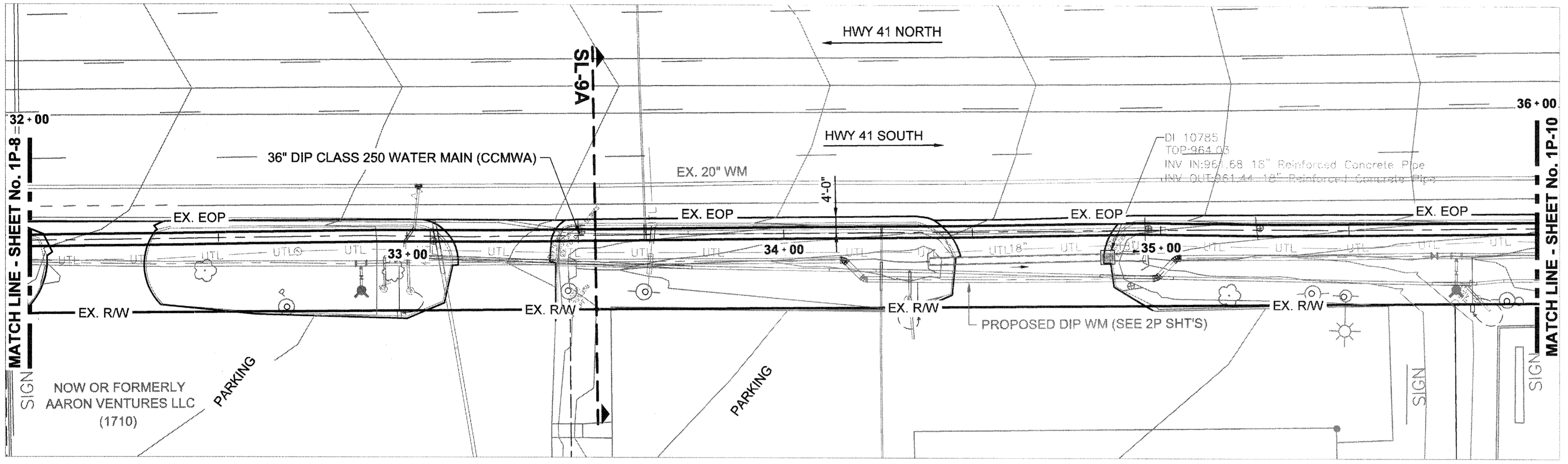
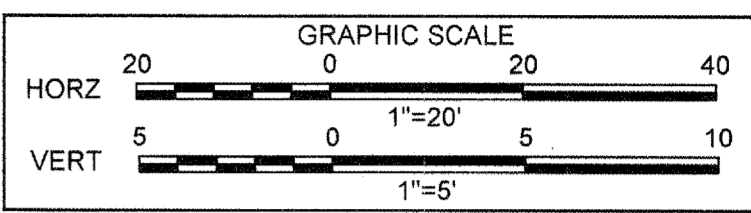
**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-833-0280



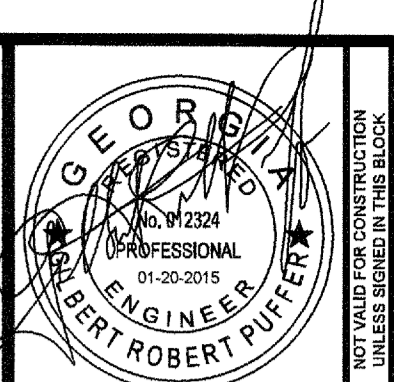
PROJ. No.:	DATE	REVISION
100032548	01/20/2015	
DESIGNED BY: GRP		FOR BID
DRAWN BY: JN		
CHECKED BY: GRP		
APPROVED BY: GRP		
DATE: JAN, 2015		
SCALE: AS SHOWN		

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN  
**PLAN, PROFILE, SECTION**

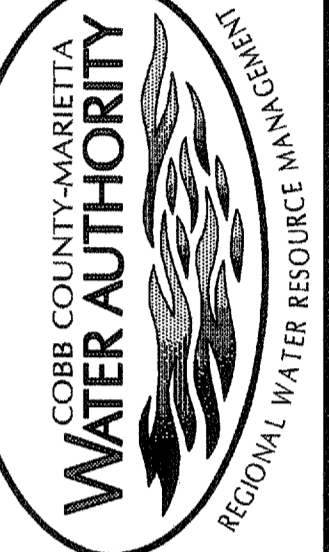
SHEET No.  
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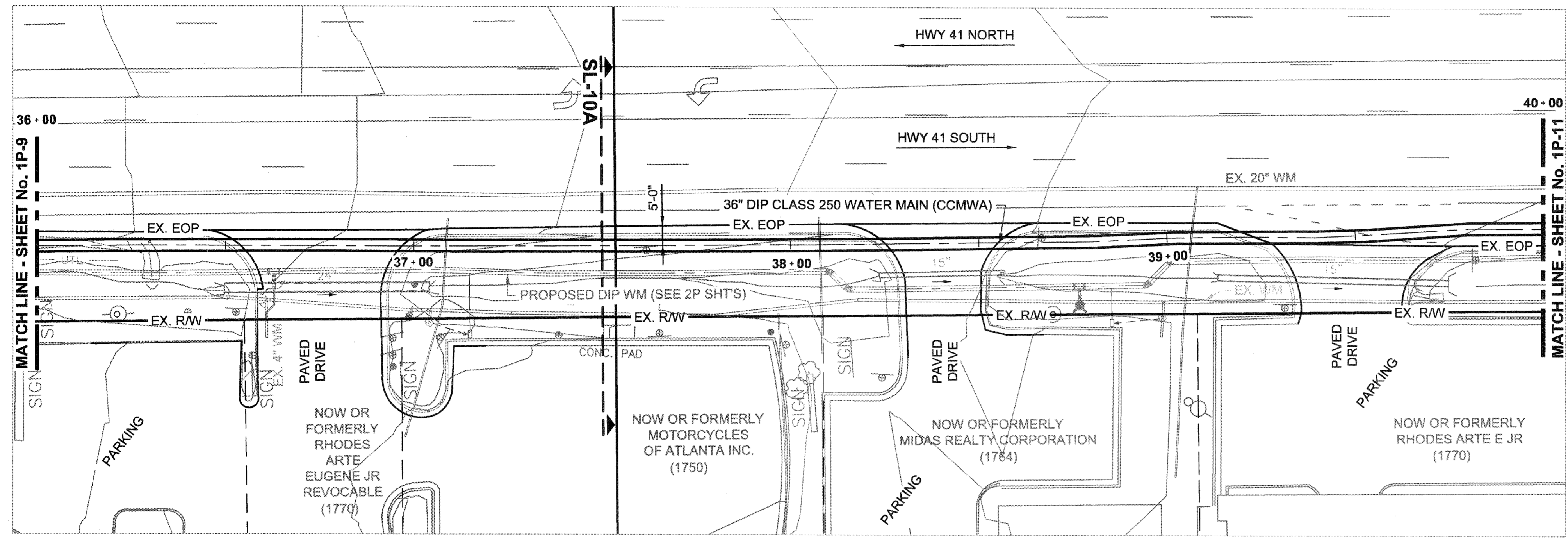
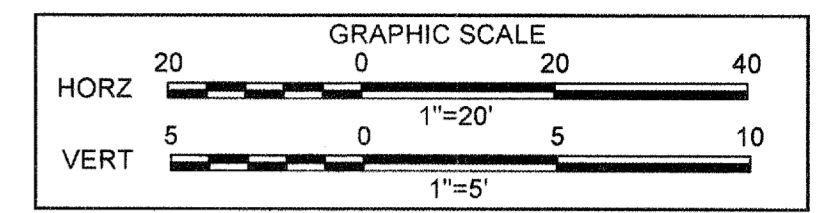
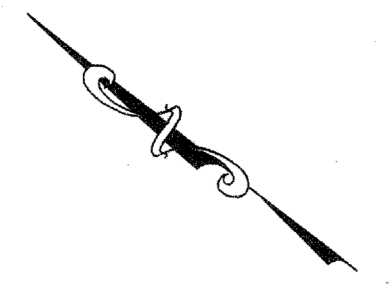
**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P. 770-833-0280

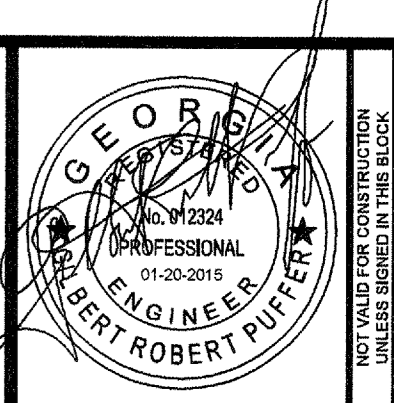
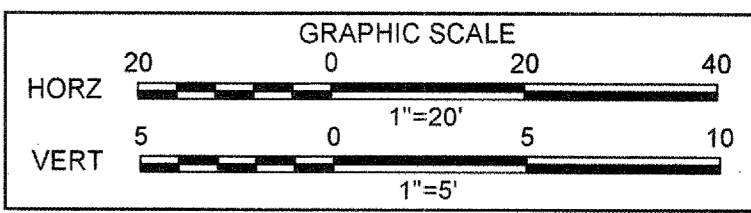
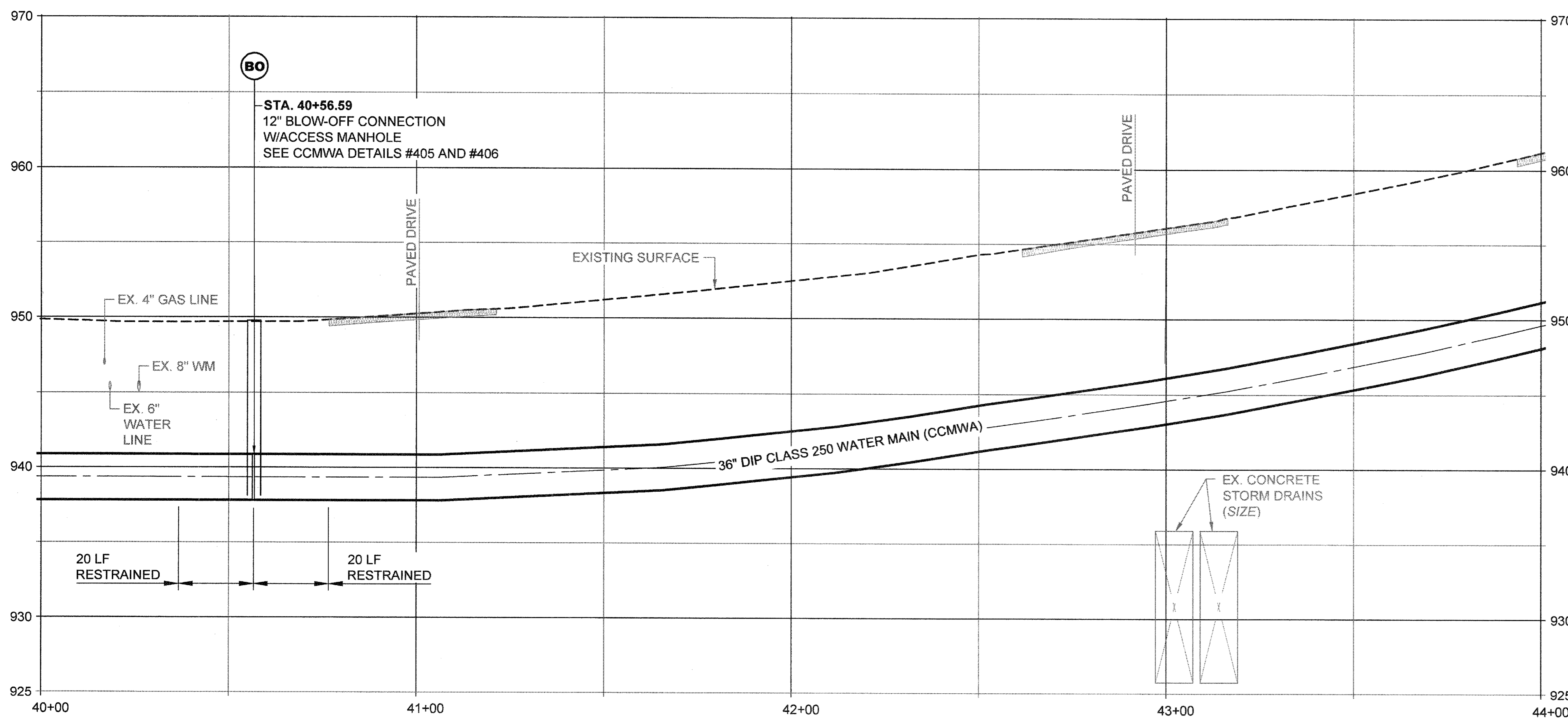
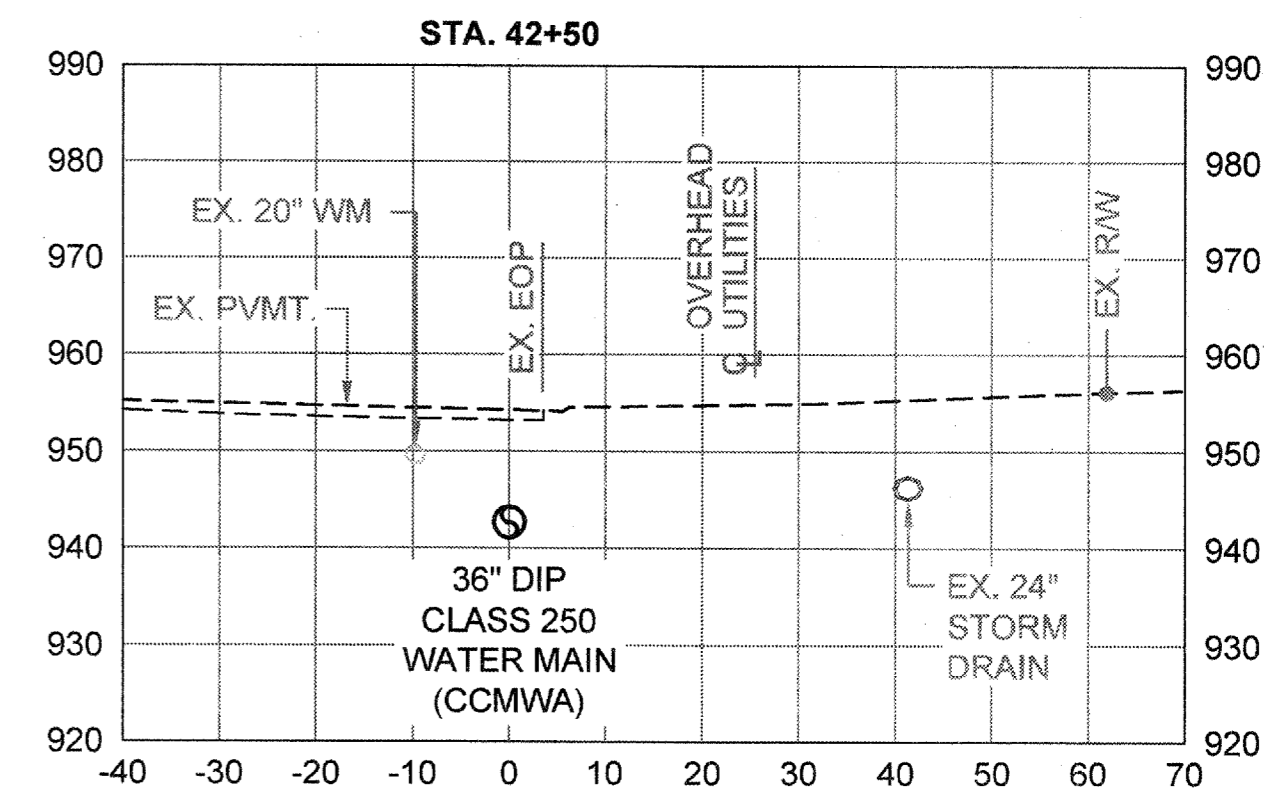
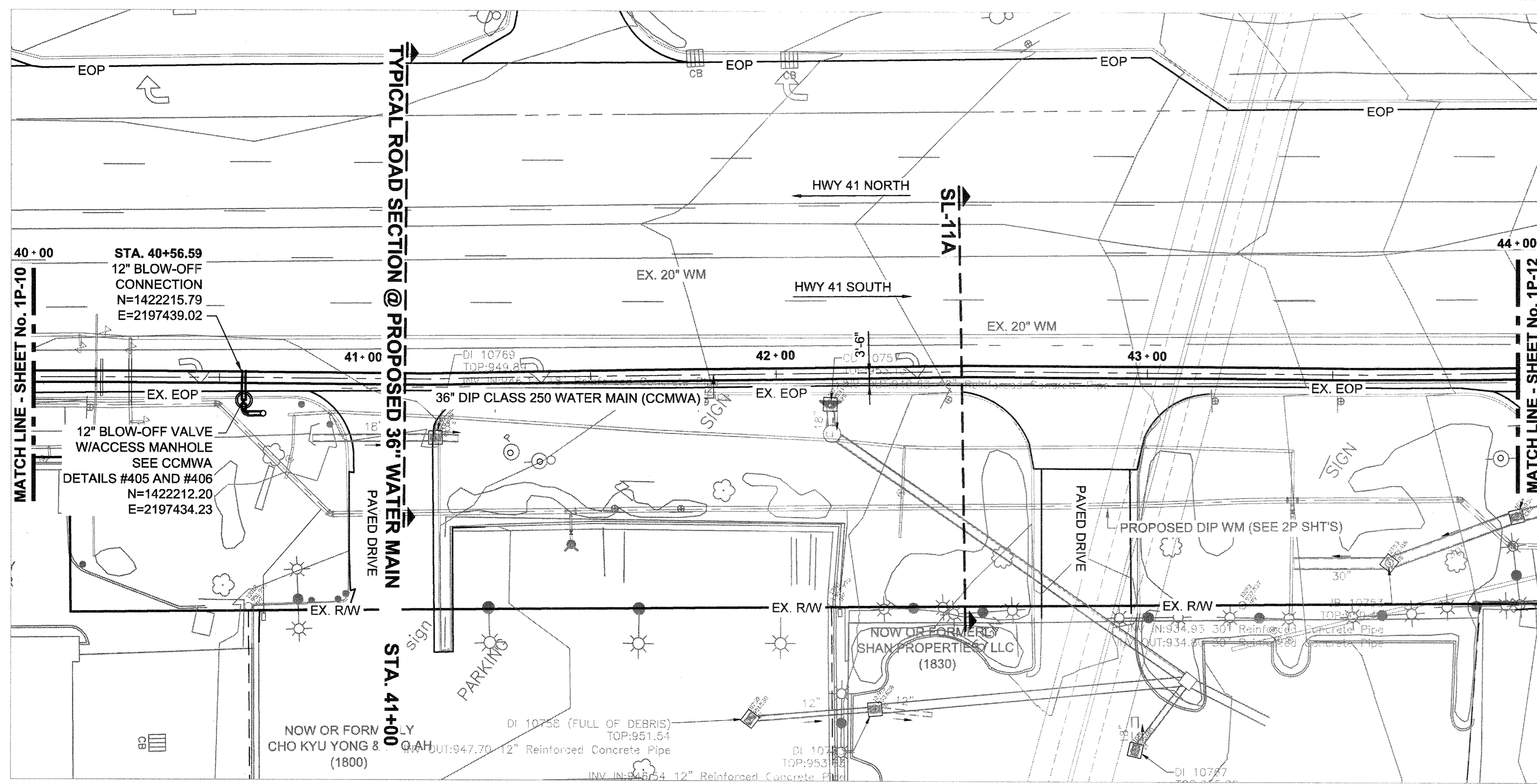


DATE	REVISION
01/20/2015	FOR BID

PROJ. No.: 100032548  
 DESIGNED BY: GRP  
 DRAWN BY: JN  
 CHECKED BY: GRP  
 APPROVED BY: GRP  
 DATE: JAN. 2015  
 SCALE: AS SHOWN

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN  
**PLAN, PROFILE, SECTION**  
 SHEET No.  
**1P-10**  
 100032548





**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-993-0280

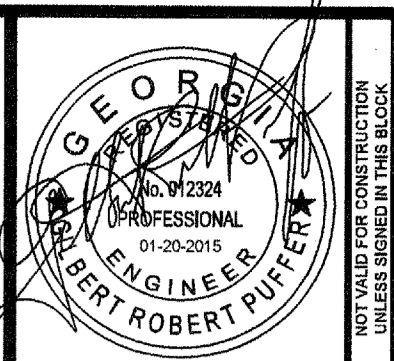
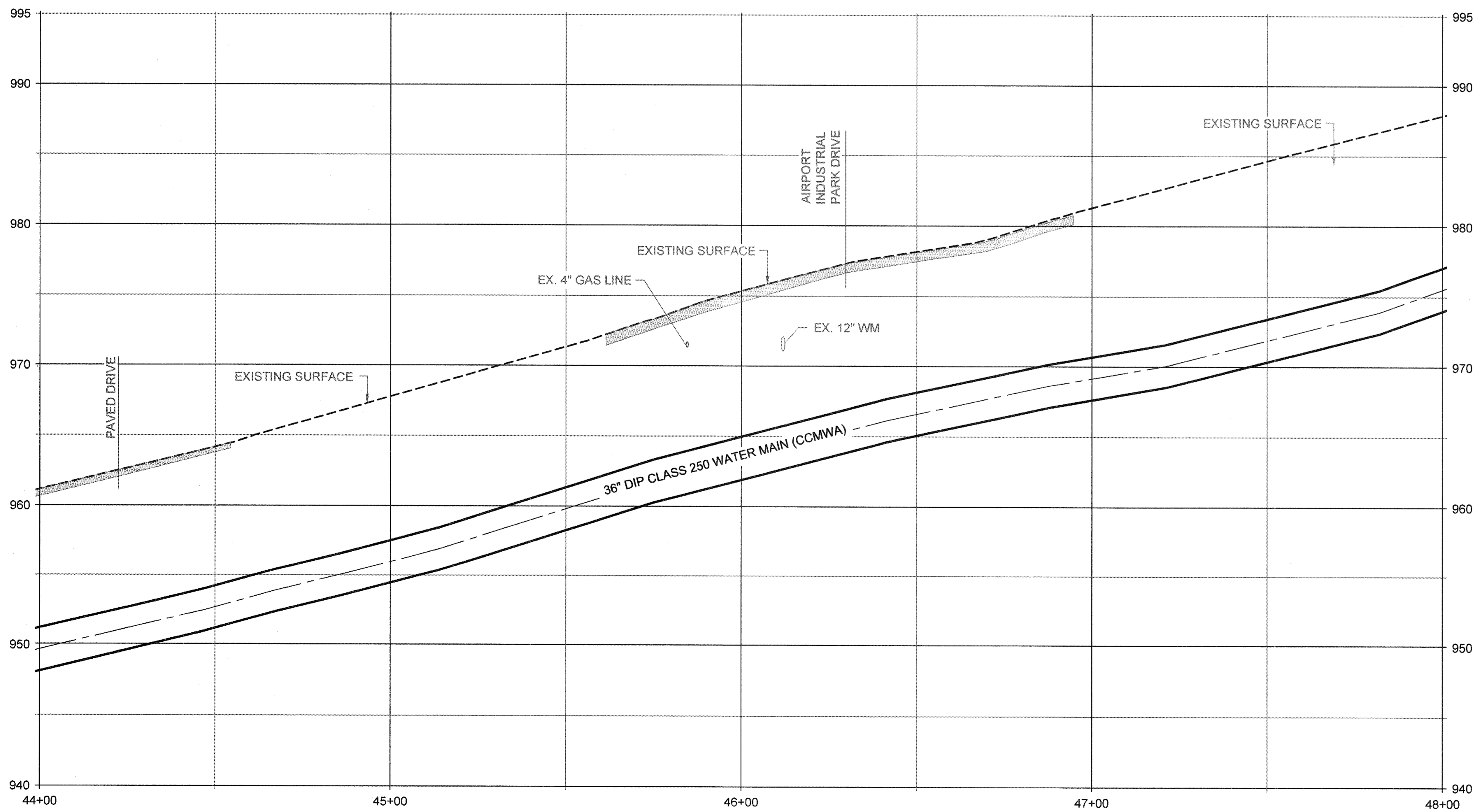
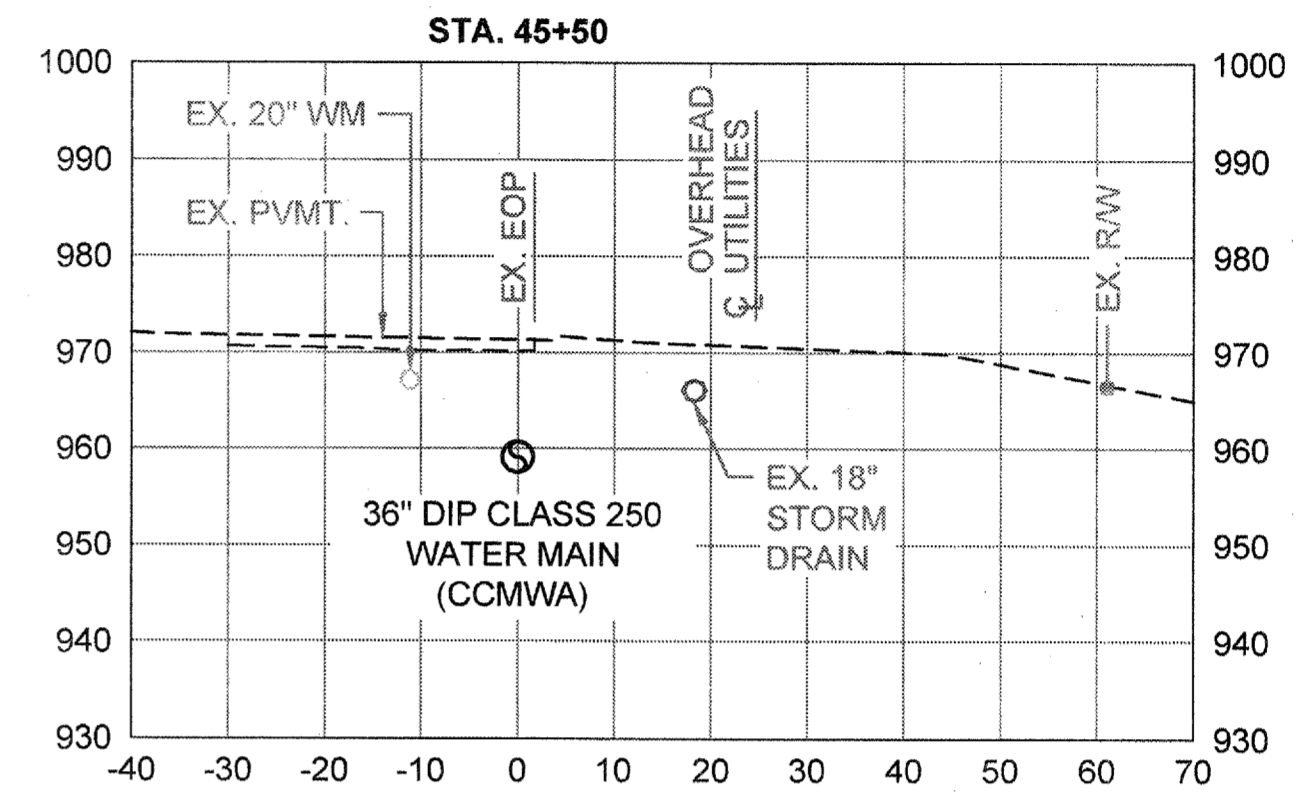
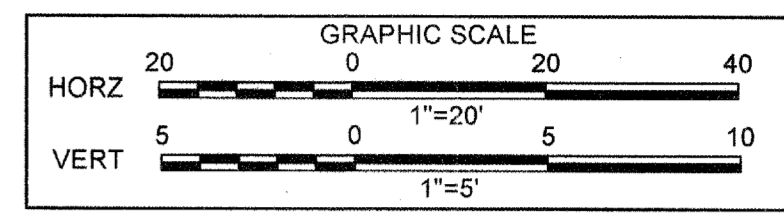
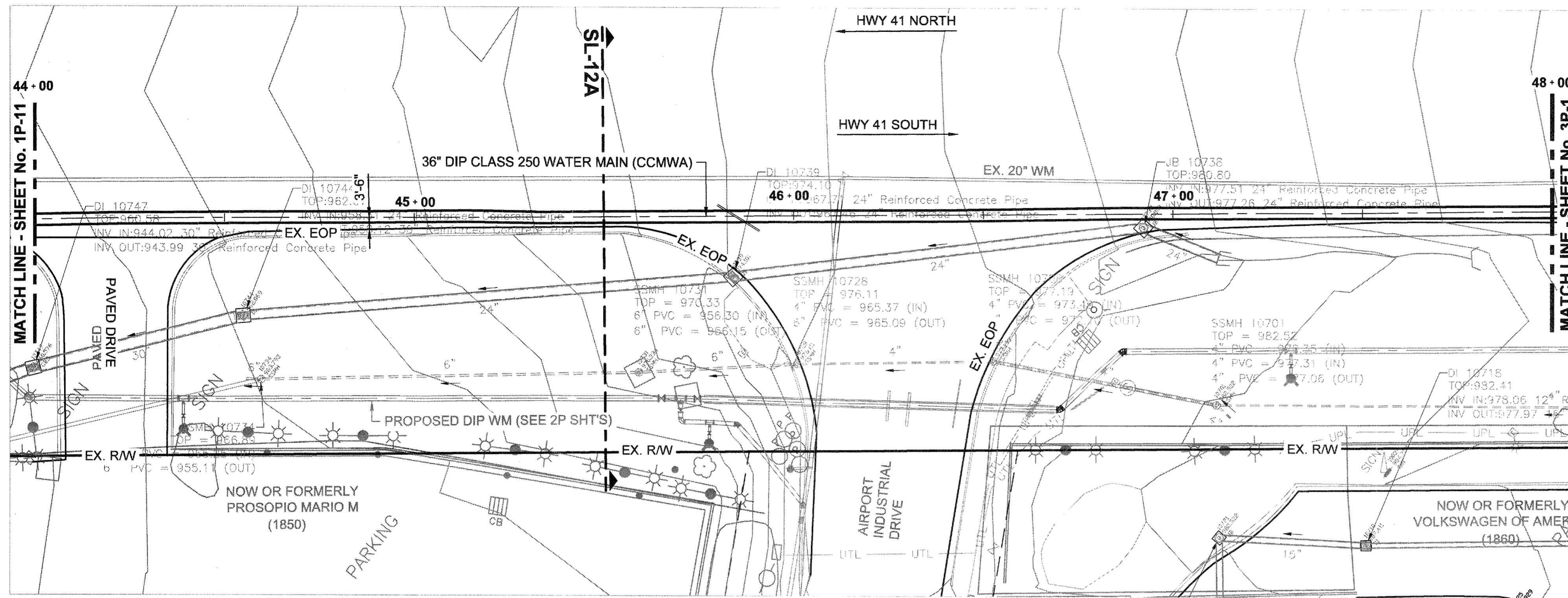


REVISION	DATE
FOR BID	01/20/2015

PROJ. No.: 100032548  
 DESIGNED BY: GRP  
 DRAWN BY: JN  
 CHECKED BY: GRP  
 APPROVED BY: GRP  
 DATE: JAN. 2014  
 SCALE: AS SHOWN

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN  
**PLAN, PROFILE, SECTION**  
 SHEET No.  
**1P-11**  
 100032548

File Name: C:\PW\_WORK\ATKINA\EL01\NEW\7482\DWG\0998\00 - PLANS\_PROFS\_SECTS\_DETAILS.DWG | Job: IP-11 | Plotted: February, 19, 2015 6:28am



**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-933-0280



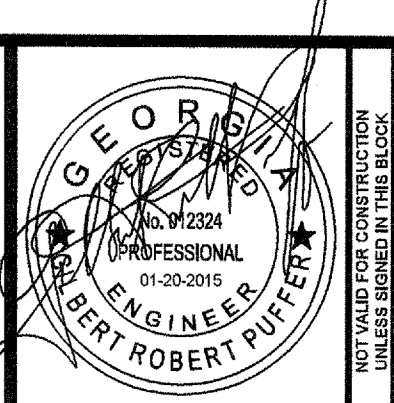
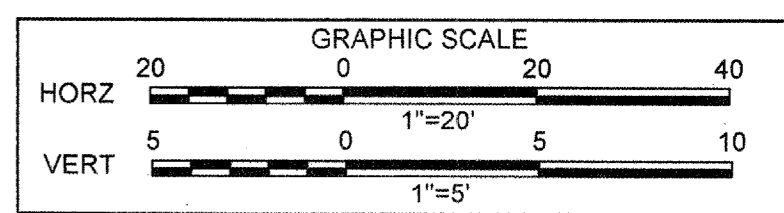
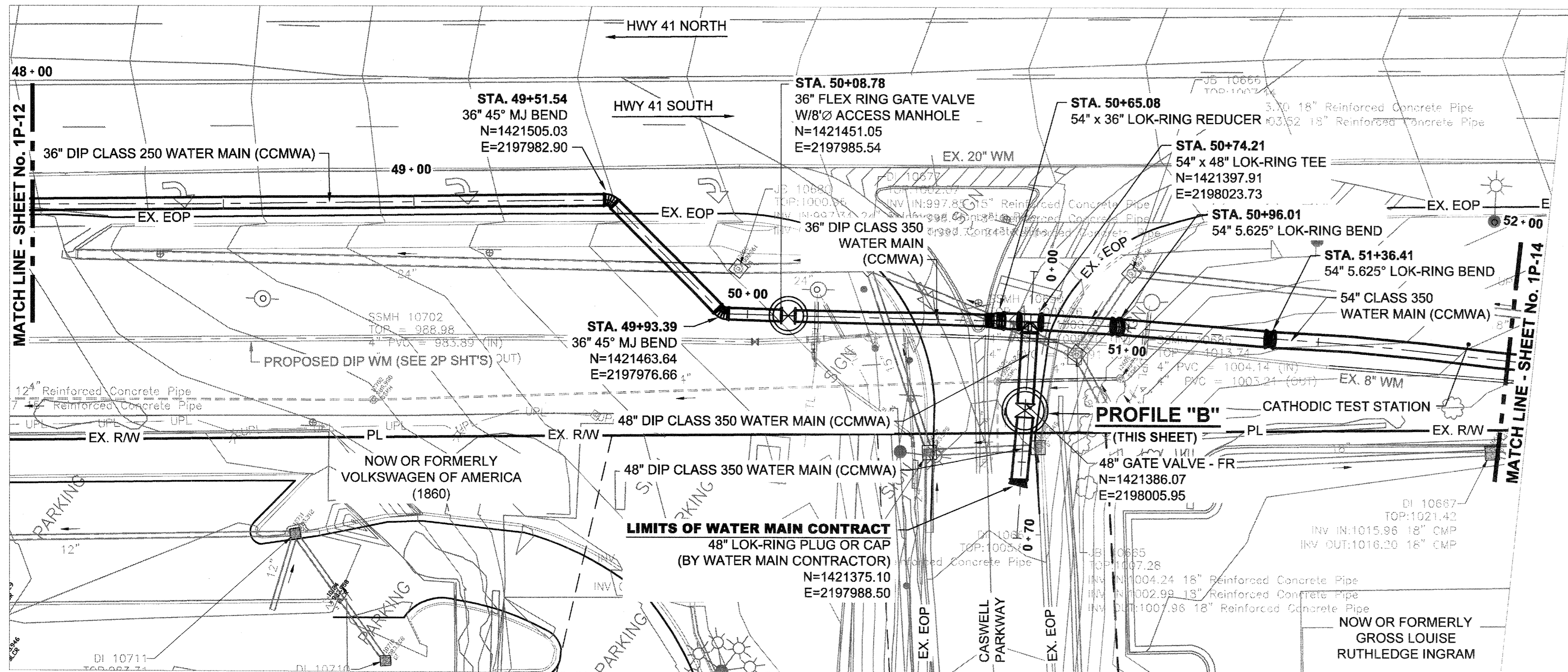
PROJ. No.:	DATE
100032548	01/20/2015
DESIGNED BY: GRP	REVISION
DRAWN BY: JN	FOR BID
CHECKED BY: GRP	
APPROVED BY: GRP	
DATE: JAN. 2015	
SCALE: AS SHOWN	

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN  
**PLAN, PROFILE, SECTION**

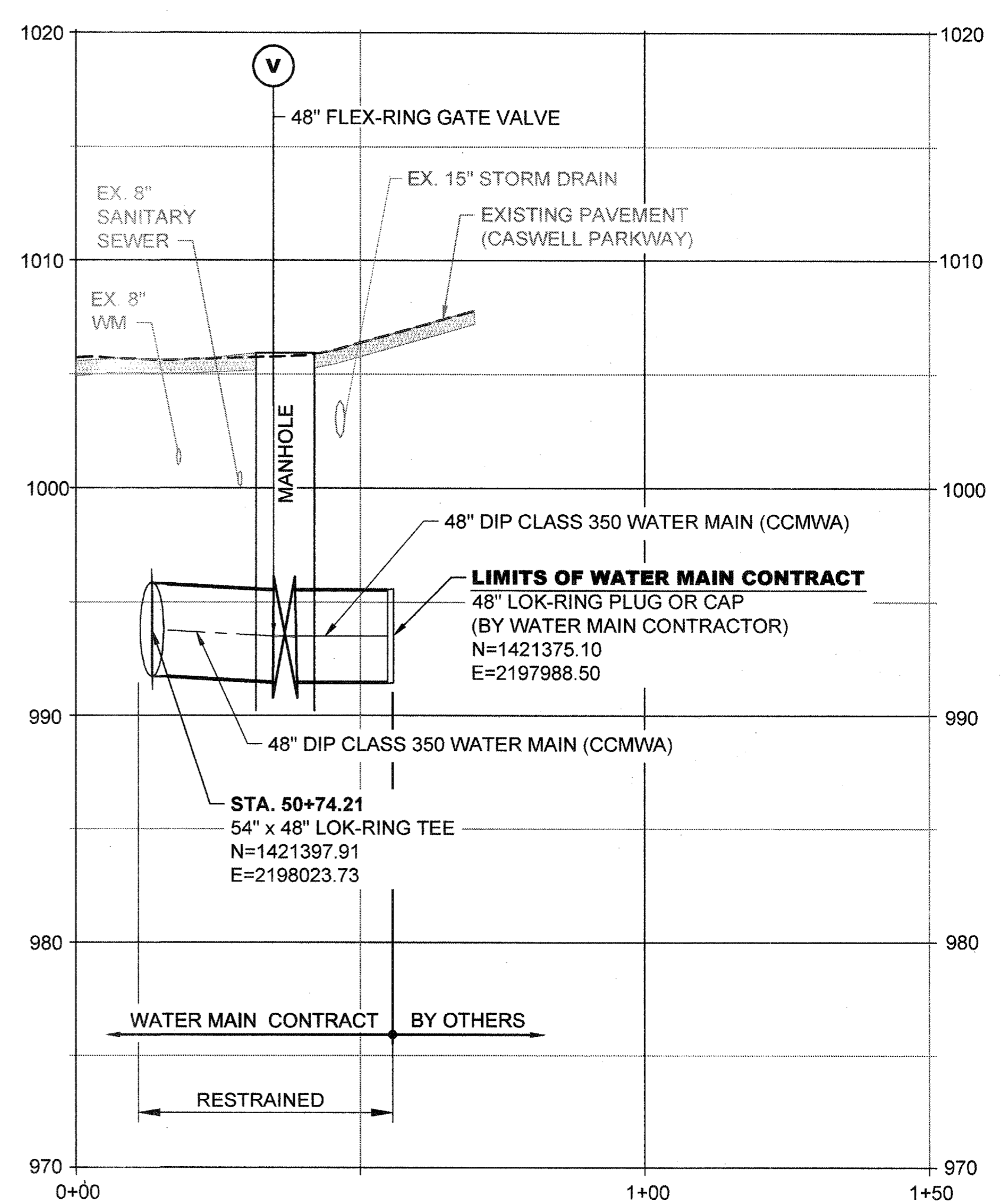
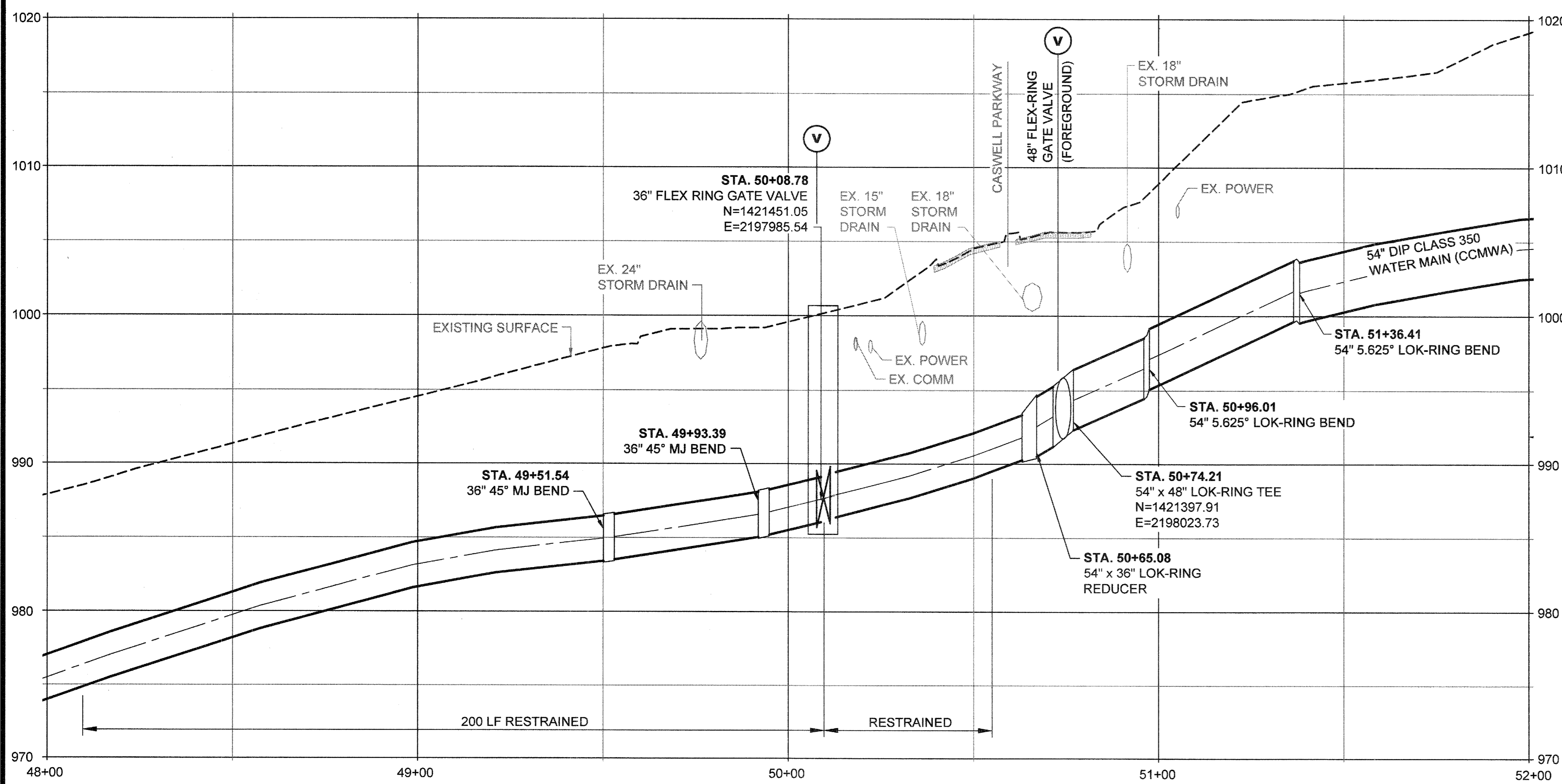
SHEET No.  
**1P-12**  
 100032548

File Name: C:\PW\_WORK\ATKIA\FLOA\VIEW\482\DWG\00998\00 - PLANS\_PROFS\_SECTS\_DETAILS\DWG\Tab:1P-12.plotted: February 19, 2015 8:35am





**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-893-0280

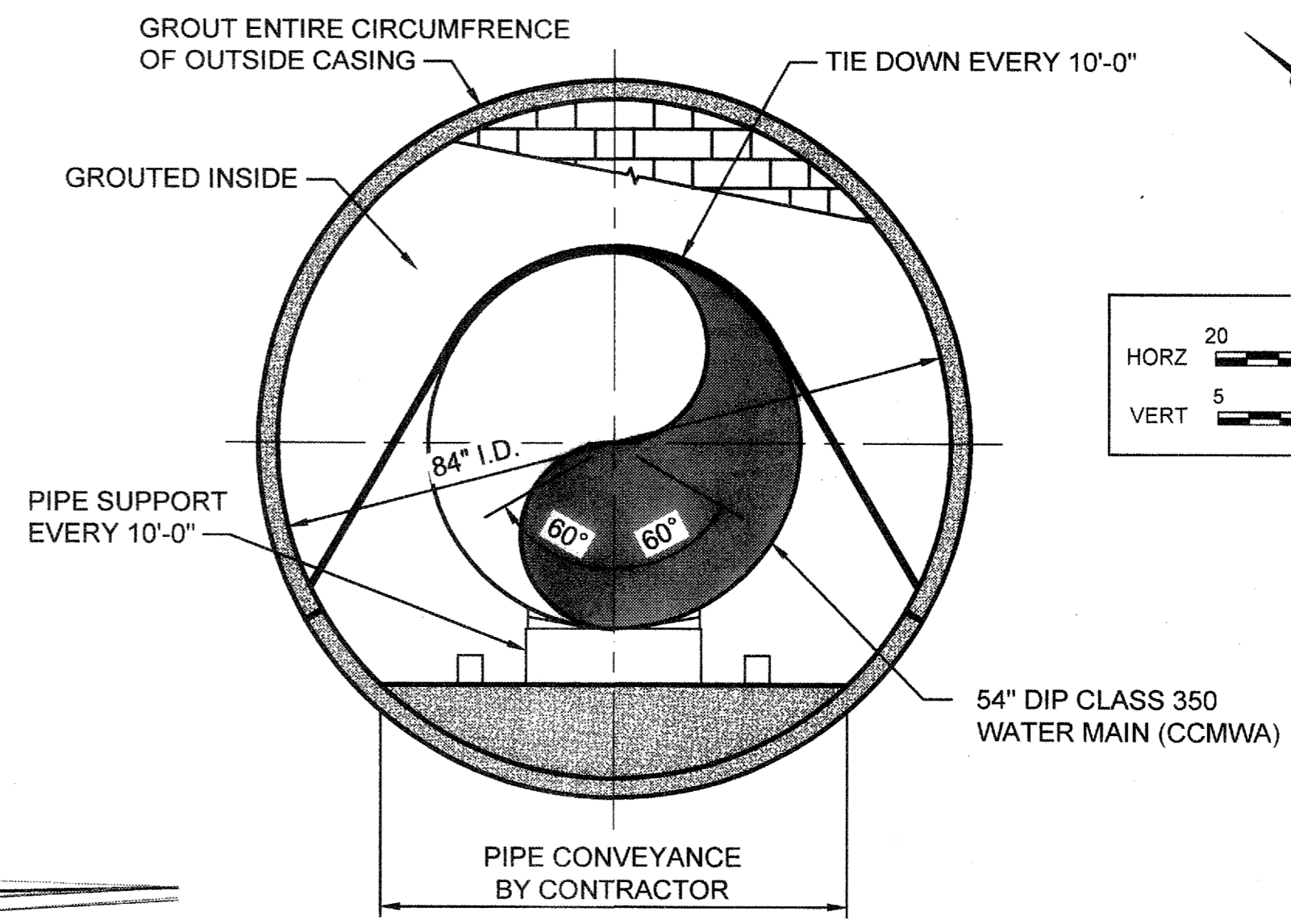
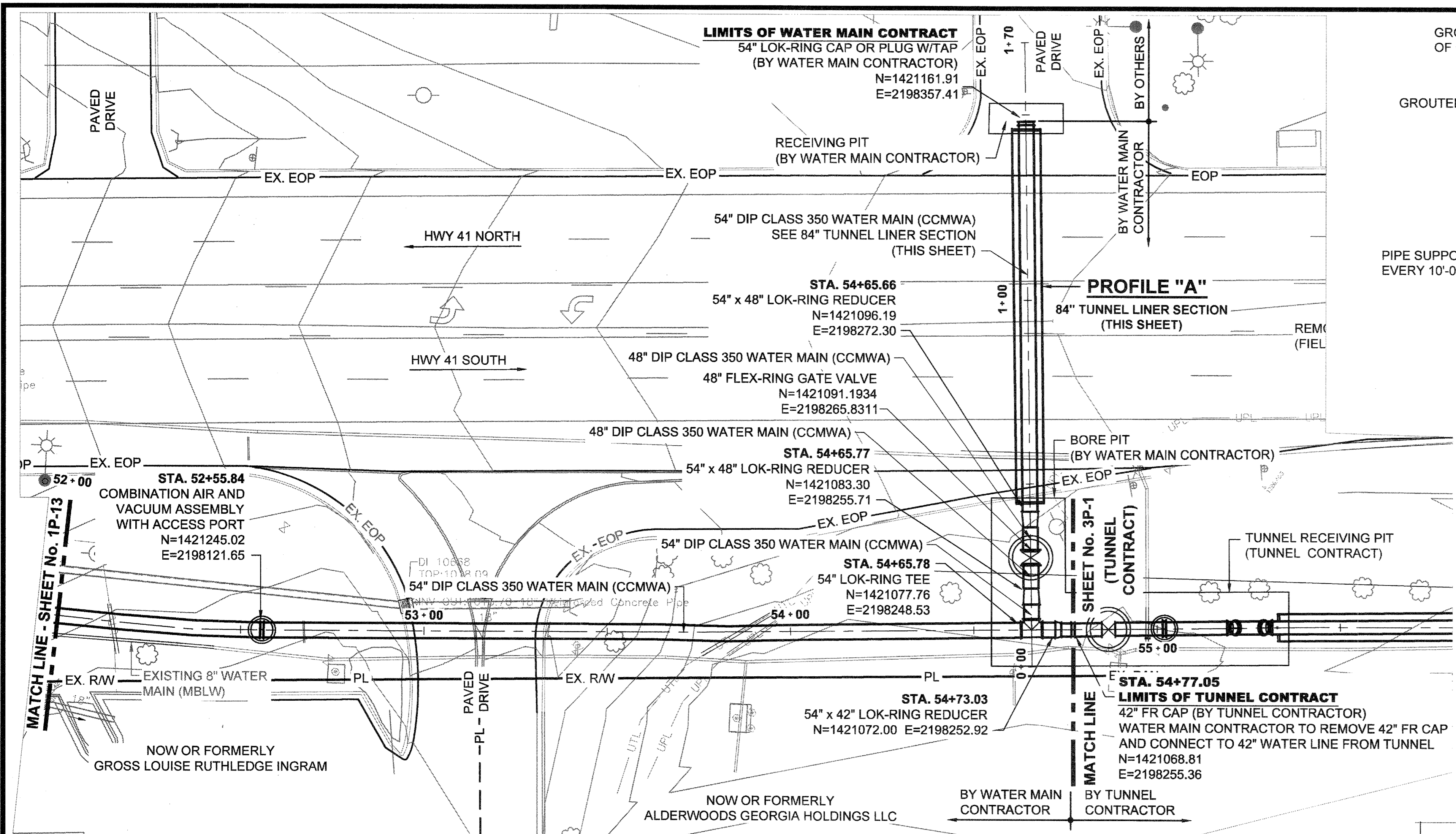


DATE	REVISION
01/20/2015	
	FOR BID

PROJ. No.: 100032548  
 DESIGNED BY: GRP  
 DRAWN BY: JN  
 CHECKED BY: GRP  
 APPROVED BY: GRP  
 DATE: JAN. 2015  
 SCALE: AS SHOWN

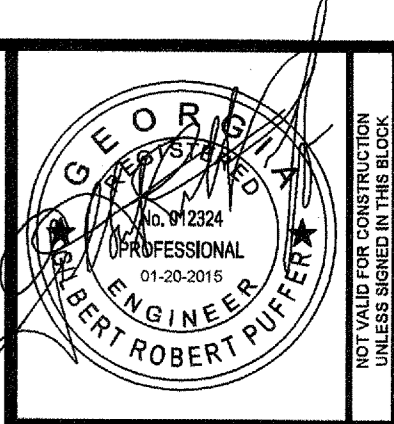
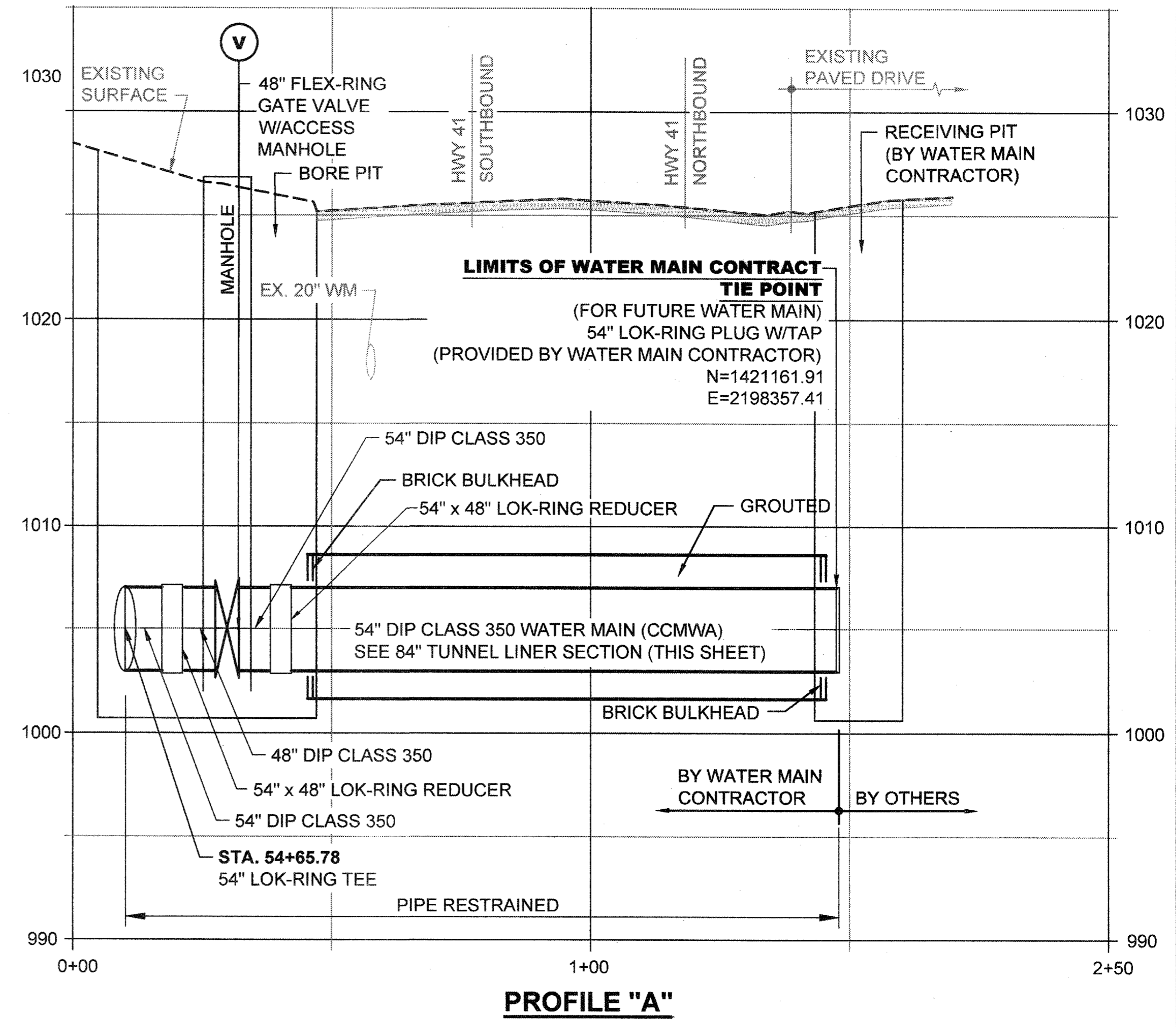
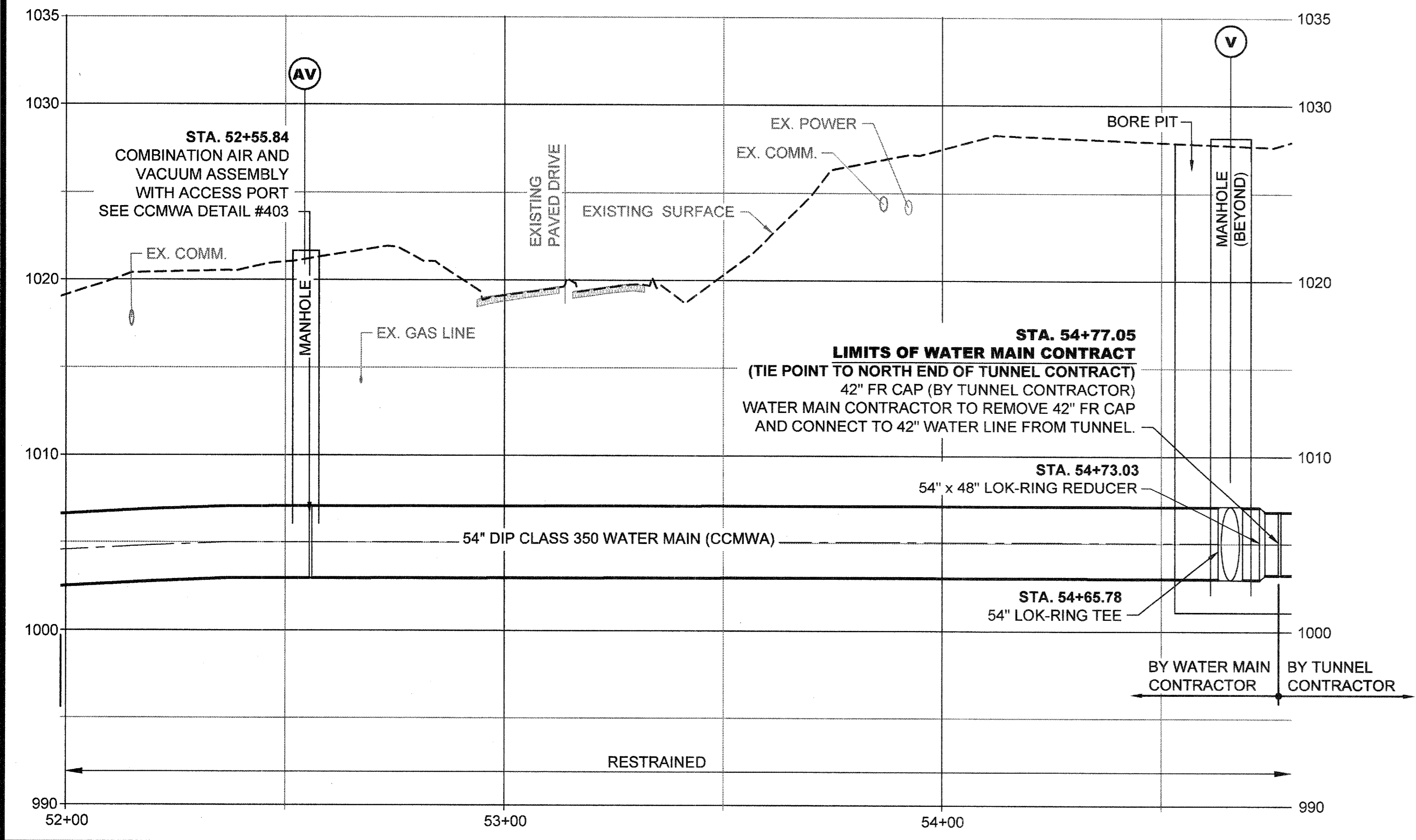
COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN  
**PLAN AND PROFILES**  
 SHEET No.  
**1P-13**  
 100032548

File Name: C:\PW\WORK\ATKIN\EL01\WEMM7492\DWG\DETAILS\DWG1P-13.dwg; Plotted: February 19, 2015 6:38am



- NOTES:
- PROVIDE PIPE TIE-DOWN EVERY 10'-0". PROVIDE 5/16" (7x19) STAINLESS STEEL AIRCRAFT CABLE. ATTACH TO TUNNEL LINER. USE 2 5/16" STAINLESS STEEL CABLE CLAMPS EACH END TO CONSTRUCT LOOPED CONNECTION.
  - PROVIDE RUBBER ISOLATION MATERIAL BETWEEN ALL DISSIMILAR METALS.
  - PROVIDE PIPE SUPPORT EVERY 10'-0". PROVIDE 4"x8"x16" SOLID CONCRETE BLOCK, 6000 PSI COMPRESSIVE STRENGTH. PROVIDE PRESSURE TREATED WOOD SHIMS TO FILL GAP BETWEEN PIPE AND CONCRETE BLOCK.

**84" TUNNEL LINER SECTION**  
(ACROSS HWY 41)  
SCALE: NTS



**ATKINS**  
1600 RiverEdge Parkway, NW, Suite 600  
Atlanta, Georgia 30328  
P: 770-833-0280

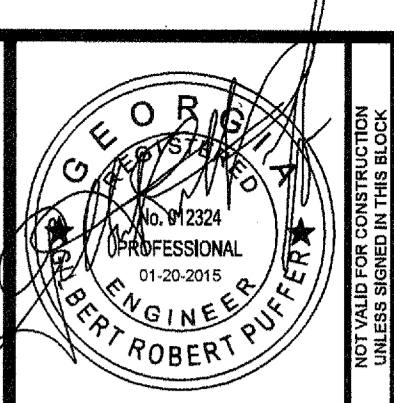
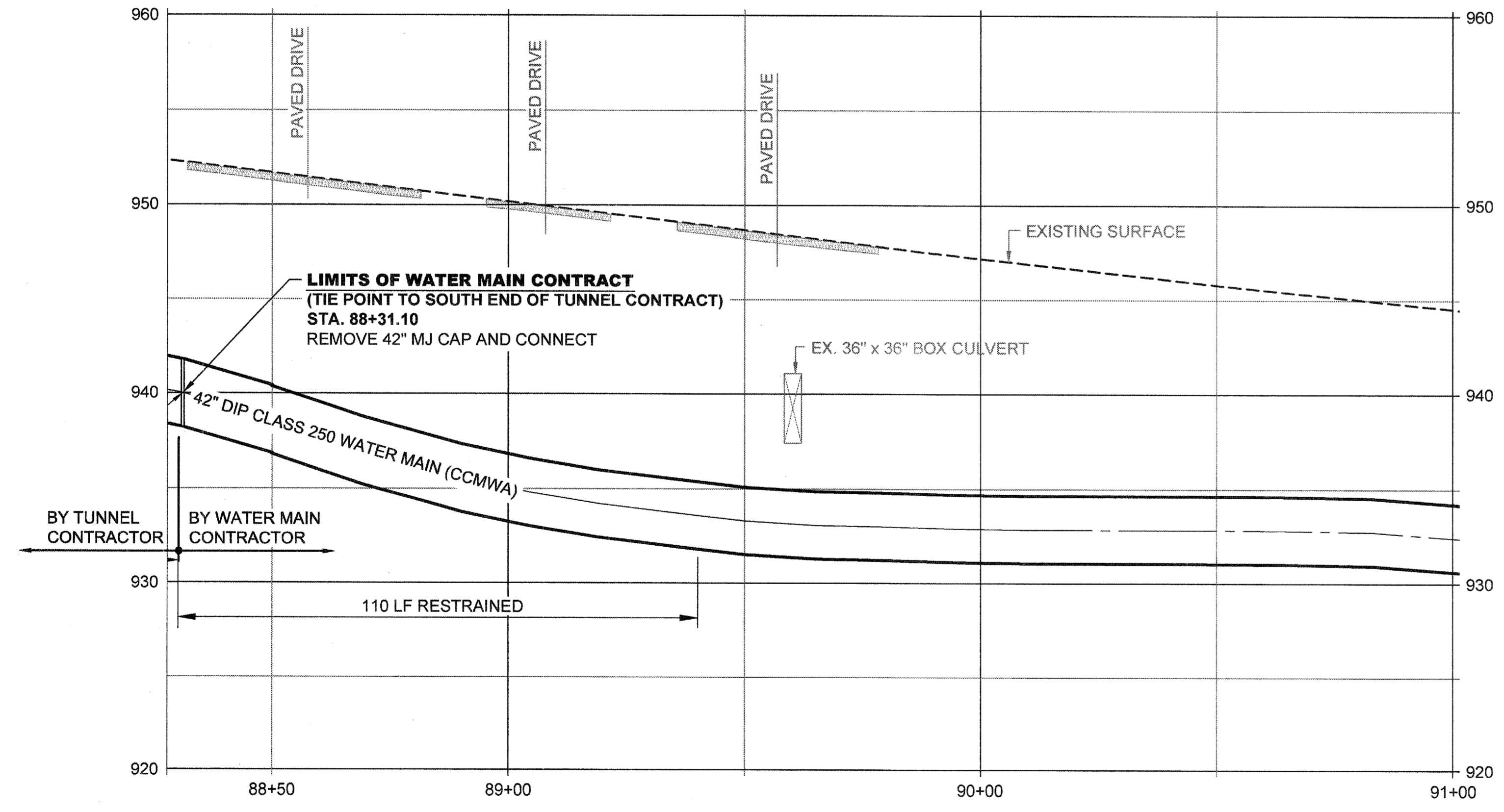
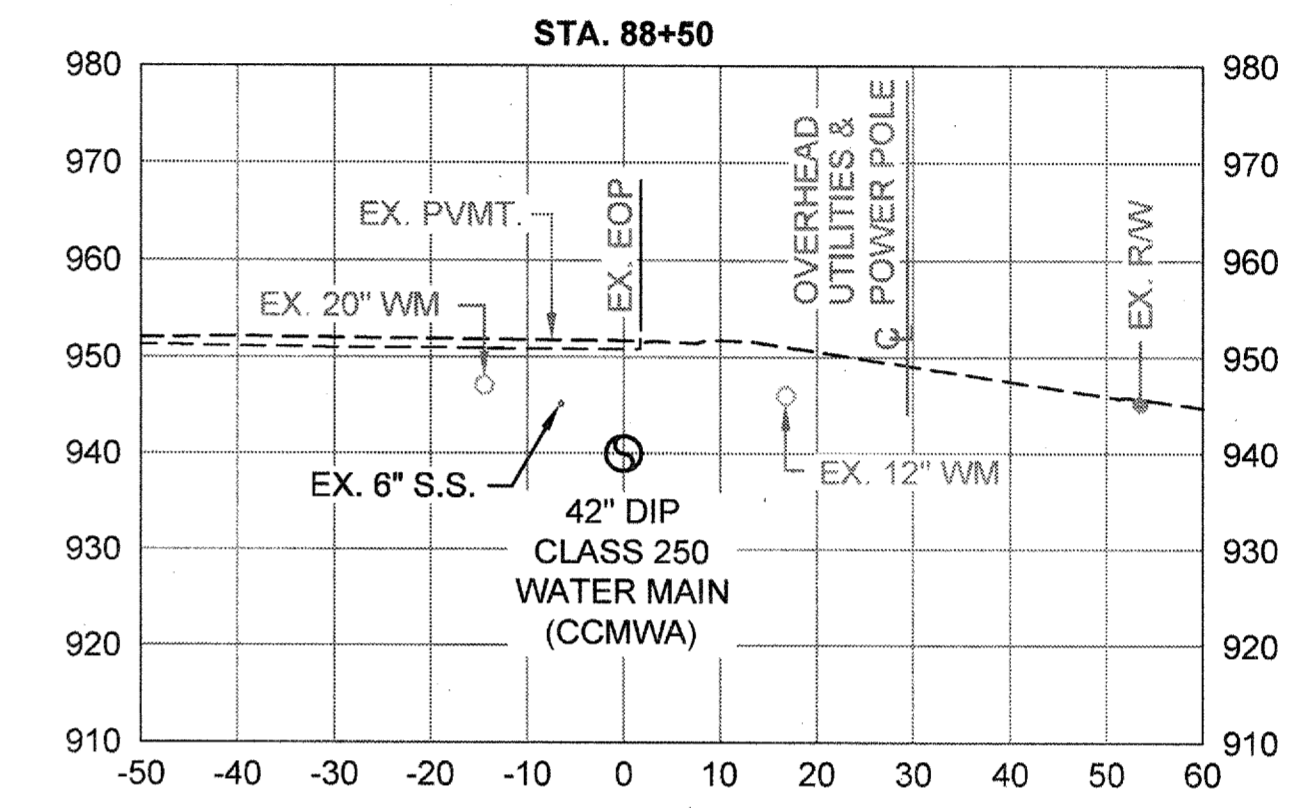
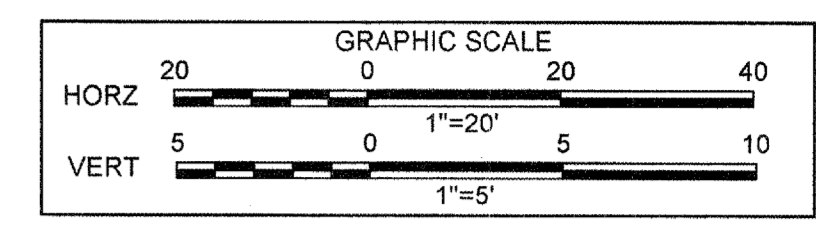
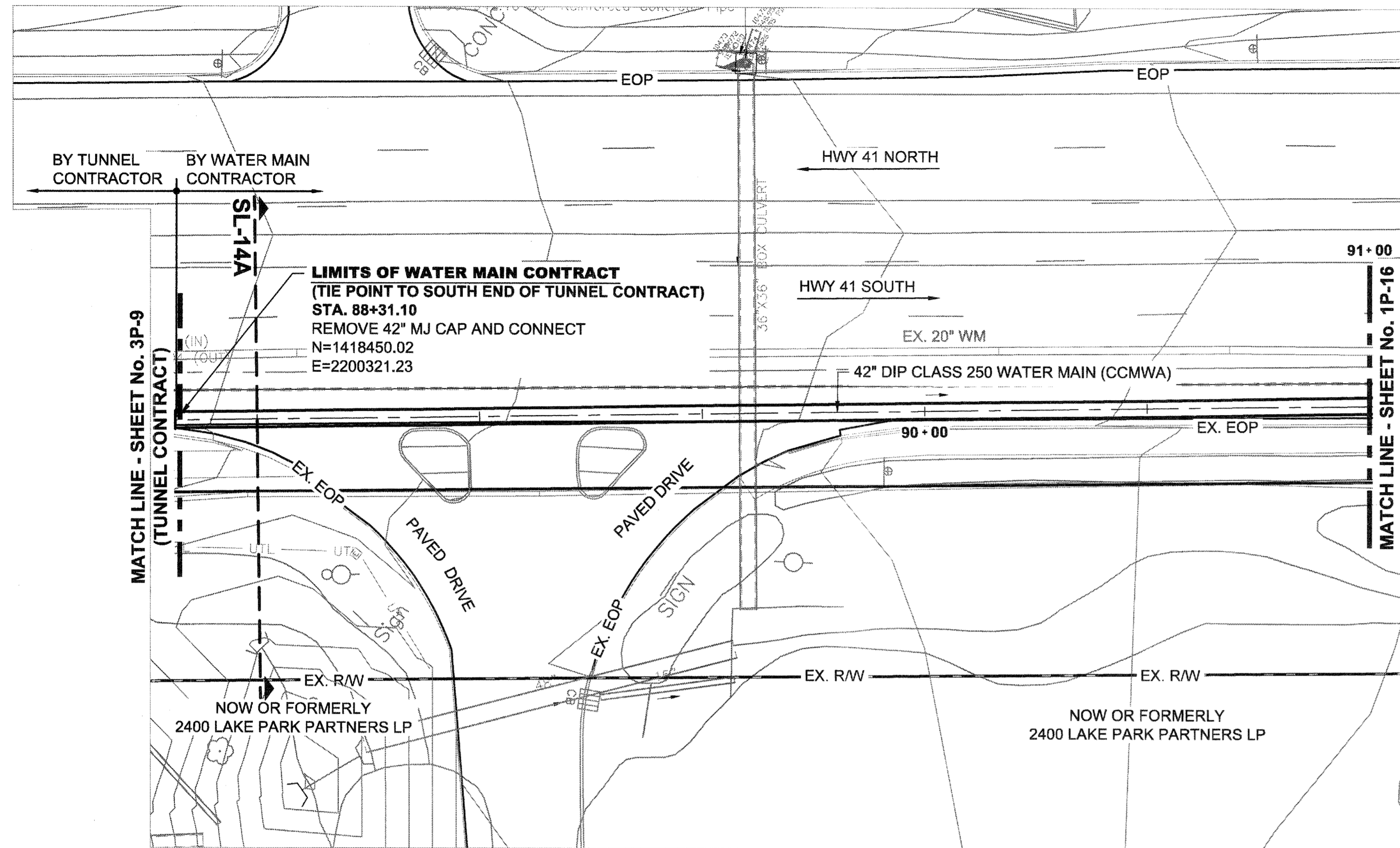


DATE	REVISION	FOR BID
01/20/2015		

DESIGNED BY: GRP	CHECKED BY: JN	APPROVED BY: GRP	DATE: JAN. 2015	SCALE: AS SHOWN
PROJECT NO.: 100032548	COBB COUNTY-MARIETTA WATER AUTHORITY HIGHWAY 41 PHASE IV WATER MAIN			

SHEET No.  
**1P-14**  
100032548

File Name: C:\PW\_WORK\ATK\A\LO\NEW\7482\_DMS00998\00 - PLANS\_PROFS\_SECTS\_DETAILS\DWG\Tab: 1P-14\Plotted: February 19, 2015 6:56am



**ATKINS**  
 1800 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P. 770-833-0280



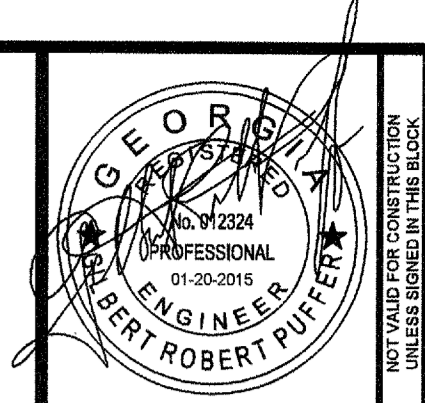
REVISION	DATE
FOR BID	01/20/2015

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN

DESIGNED BY: GRP  
 DRAWN BY: JN  
 CHECKED BY: GRP  
 APPROVED BY: GRP  
 DATE: JAN. 2015  
 SCALE: AS SHOWN

SHEET No.  
**1P-15**  
 100032548

File Name: C:\p\_w\work\ATKNAE101\NEW\7492\DWG\0998\00 - PLANS\_PROFS\_SECTS\_DETAILS.DWG | Tab: 1P-15 | Plotted: February 19, 2015 7:08am



**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia, 30328  
 P: 770-833-0280

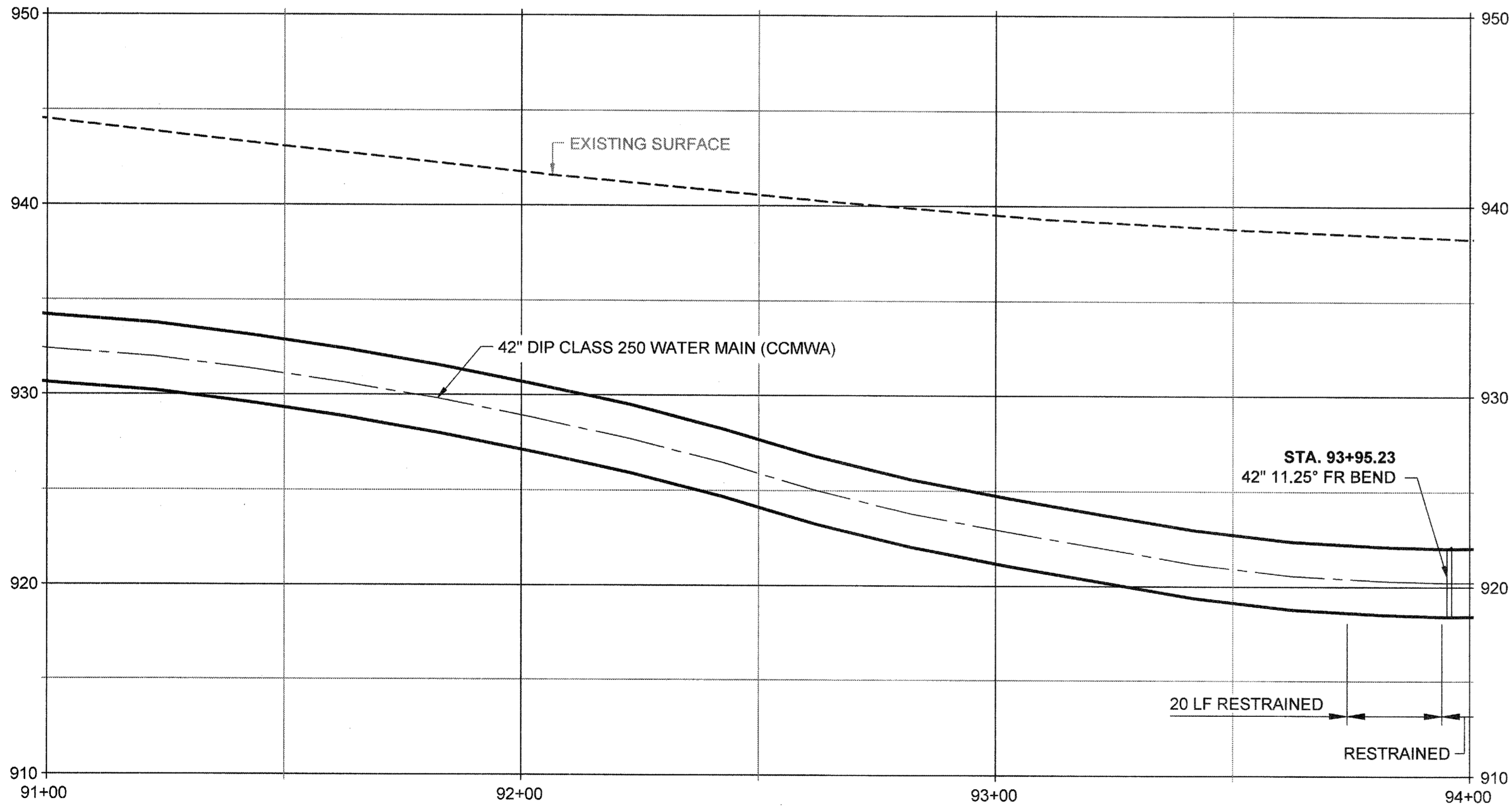
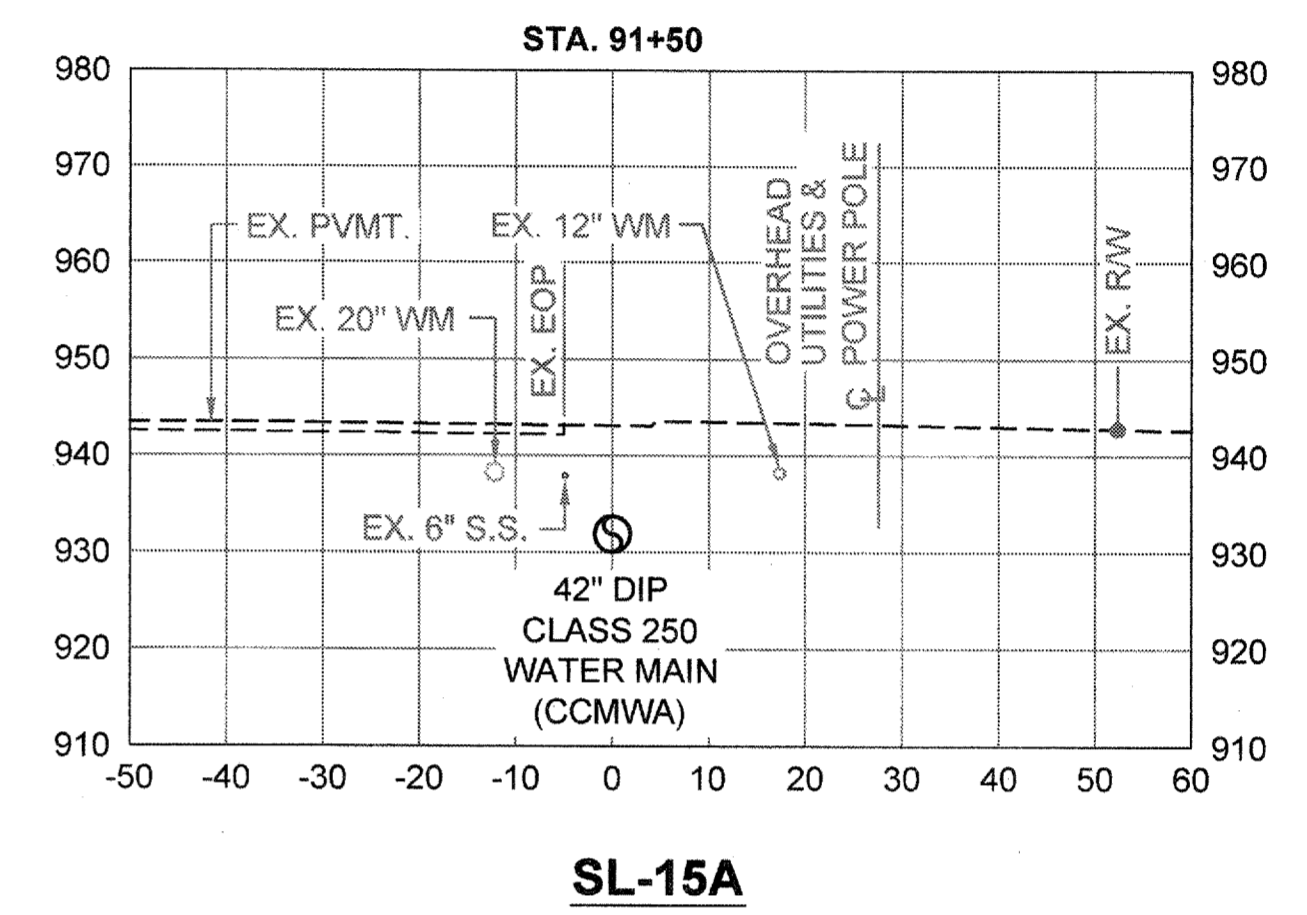
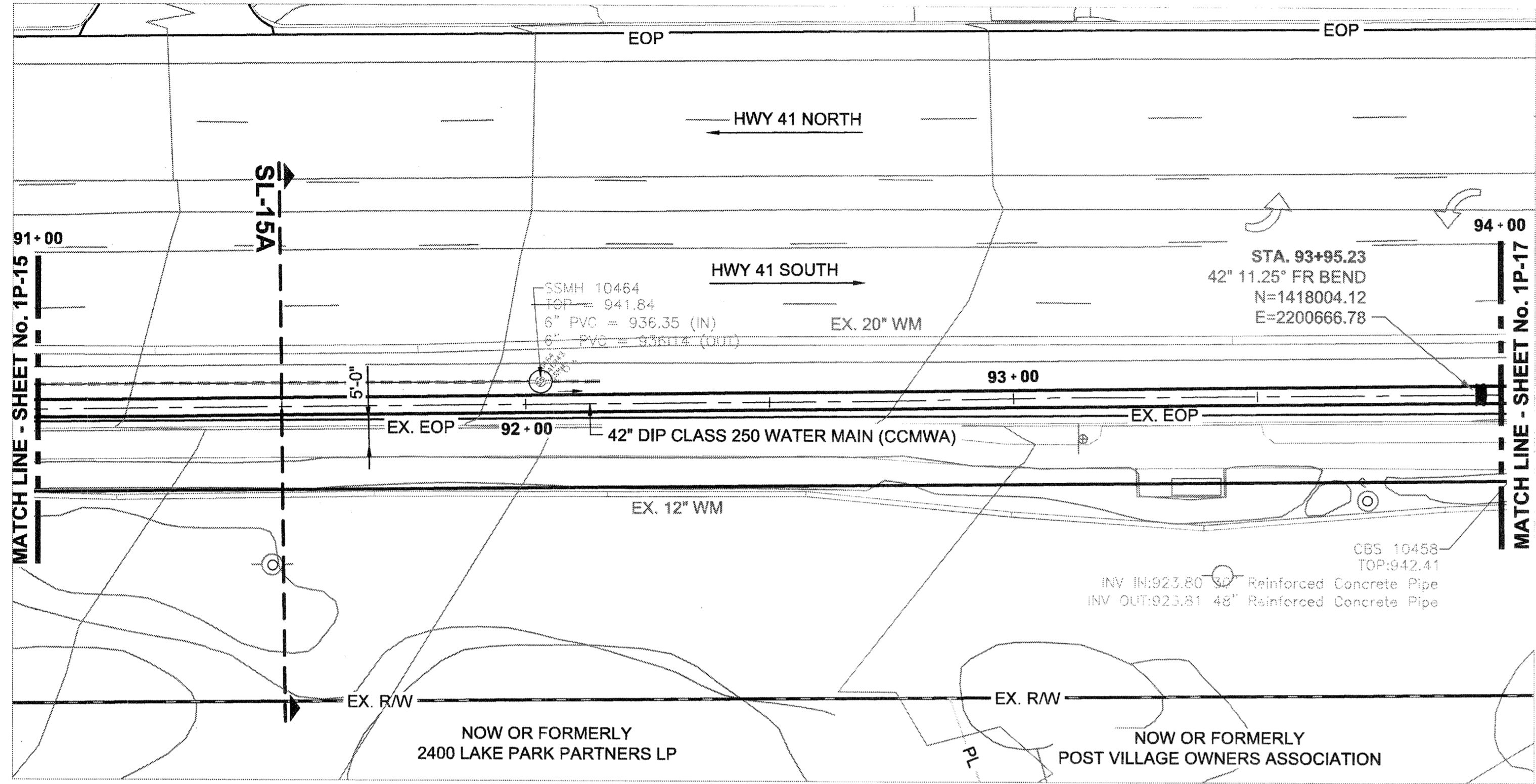
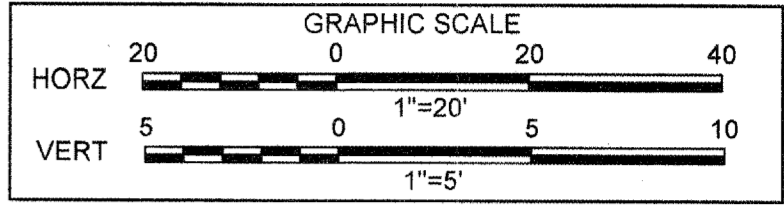
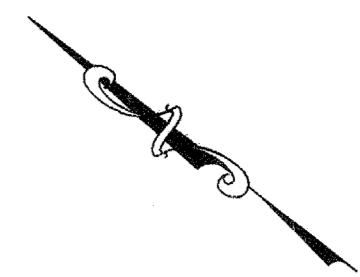


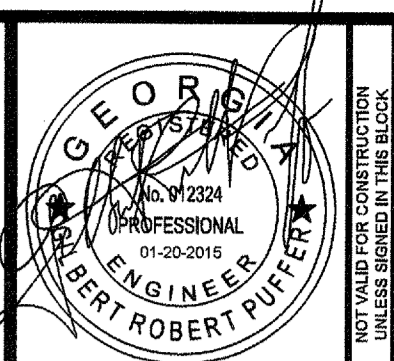
DATE	REVISION
01/20/2015	FOR BID

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN  
**PLAN, PROFILE, SECTION**

SHEET No.  
**1P-16**  
 100032548

File Name: C:\PW\_WORK\ATKINS\ATKINS\VIEW\492\DM50098\00 - PLANS\_PROFS\_SECTS\_DETAILS.DWG; Job: 1P-16; Plotted: February 19, 2015 7:11am





**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 800  
 Atlanta, Georgia 30328  
 P: 770-533-0280



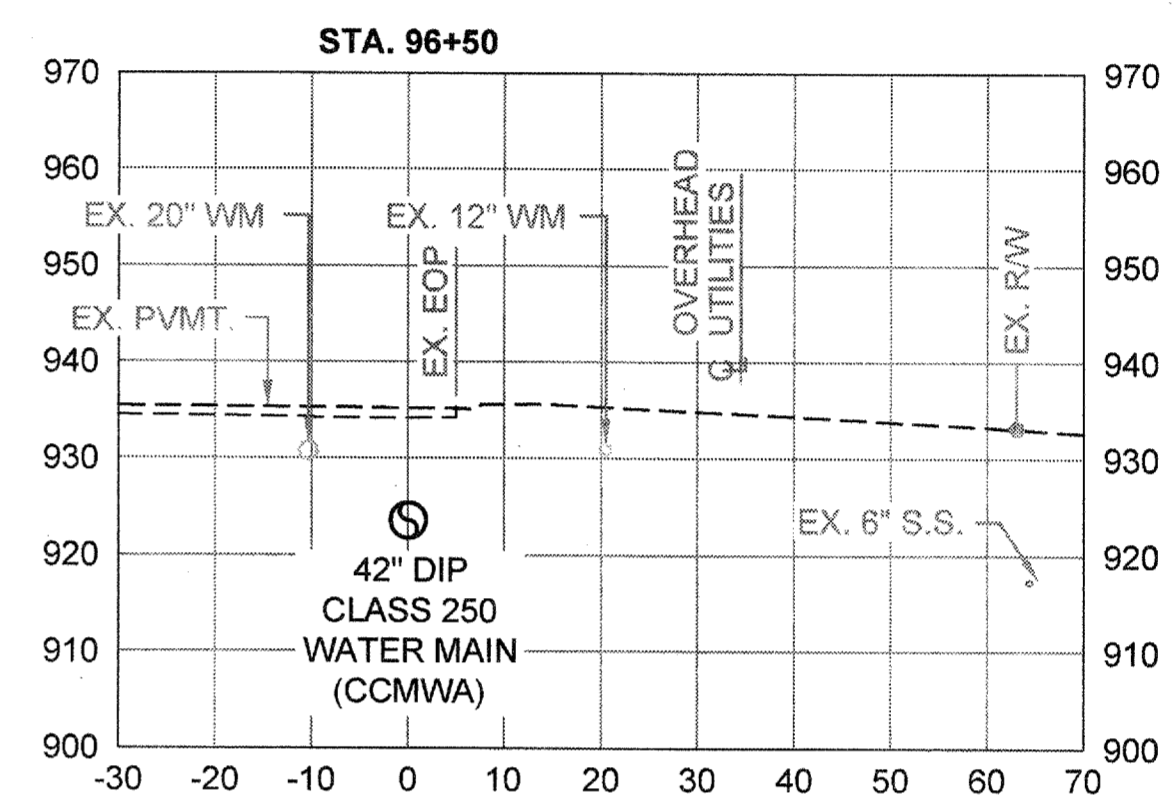
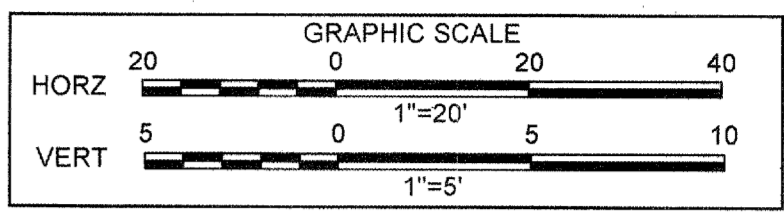
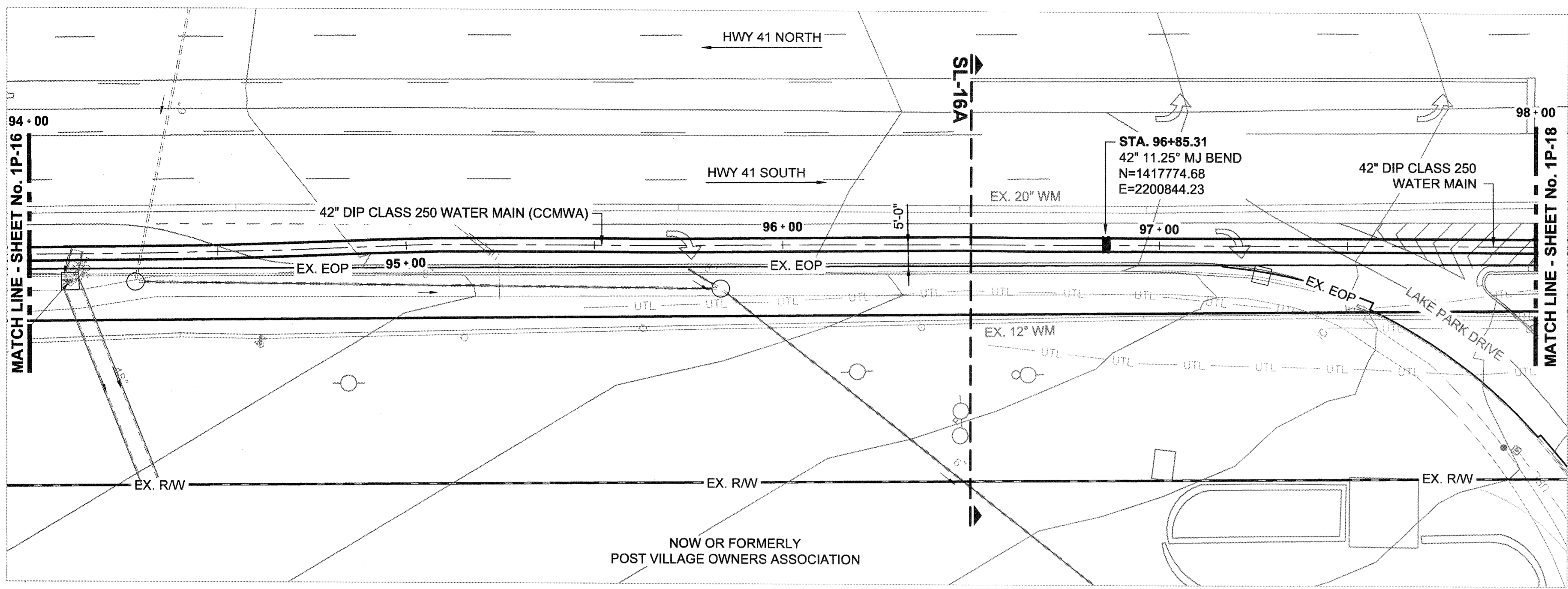
DATE	REVISION
01/20/2015	
	FOR BID

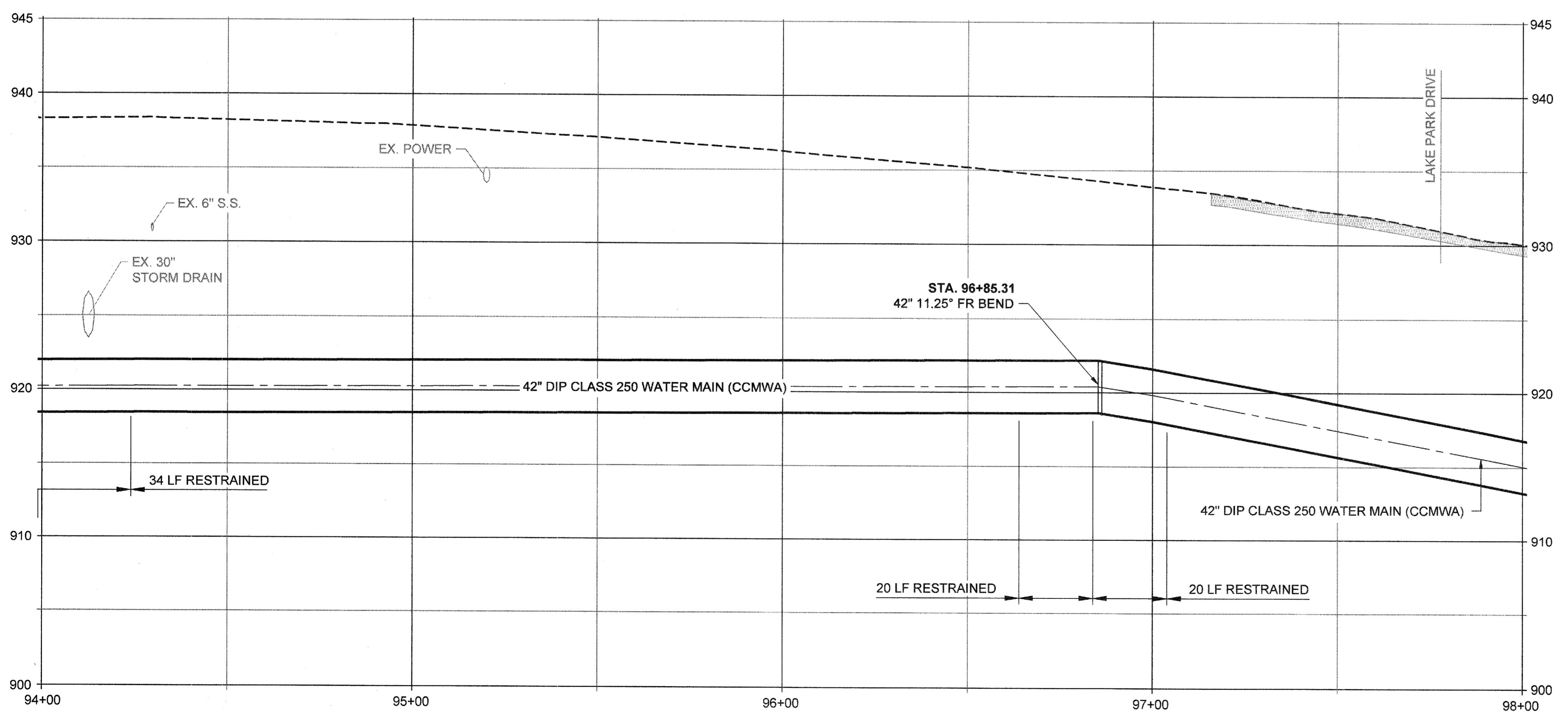
PROJ. No.: 100032548	CHECKED BY: GRP
DESIGNED BY: GRP	APPROVED BY: GRP
DRAWN BY: JN	DATE: JAN. 2015
SCALE: AS SHOWN	

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN  
**PLAN, PROFILE, SECTION**

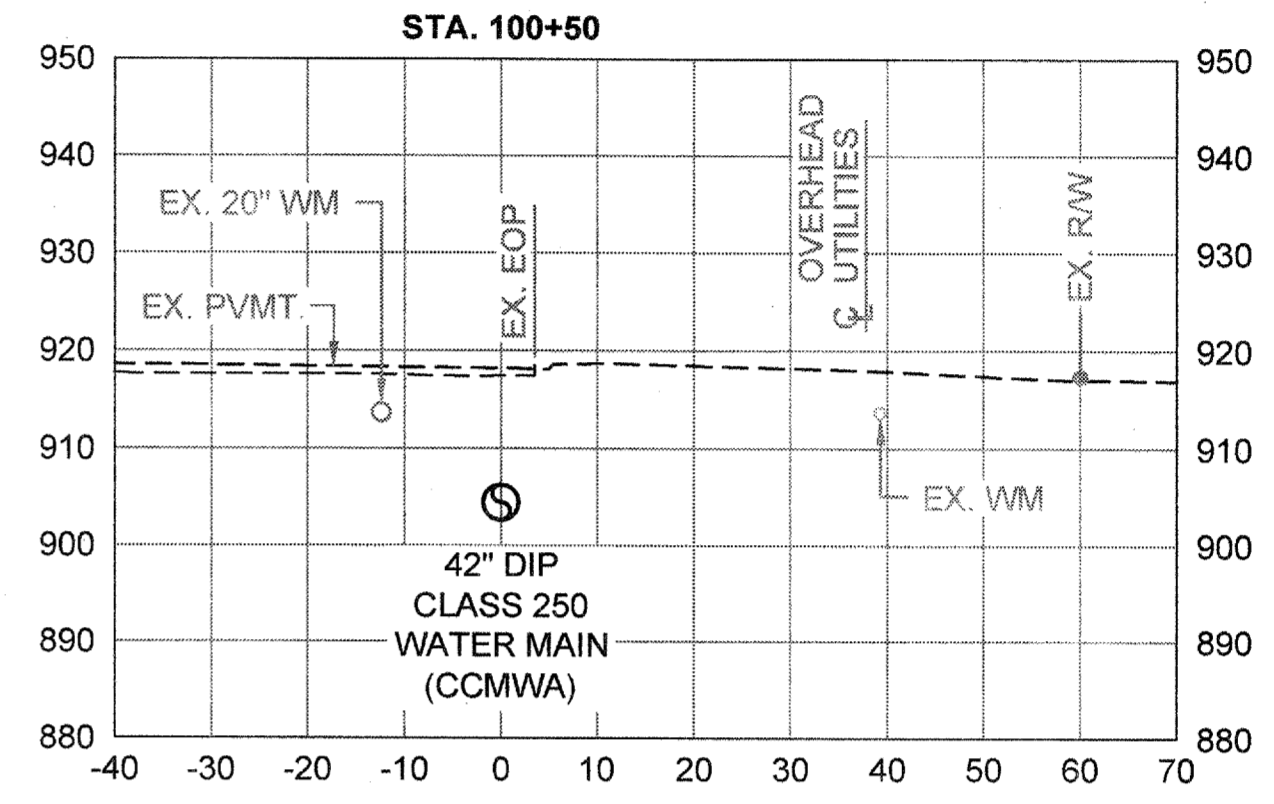
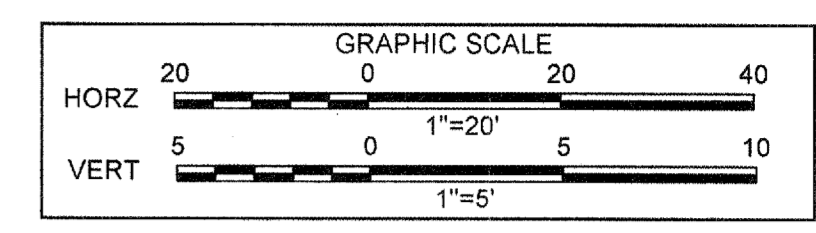
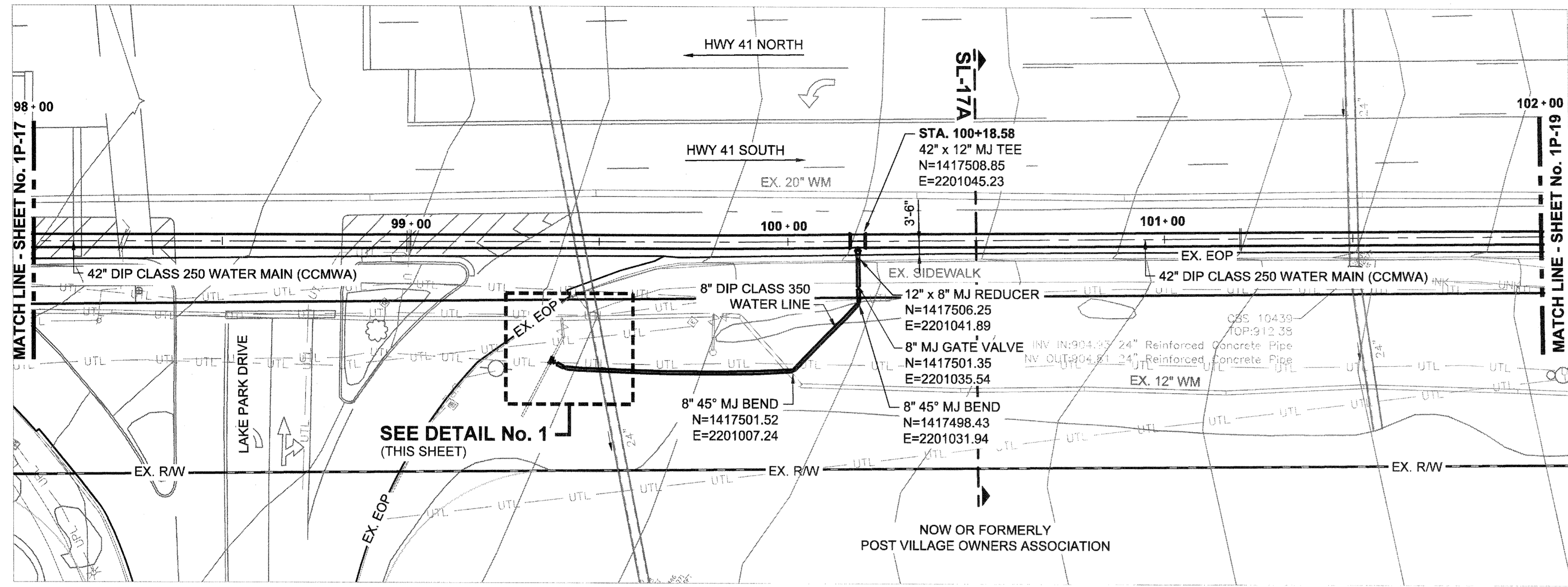
SHEET No.  
**1P-17**  
 100032548



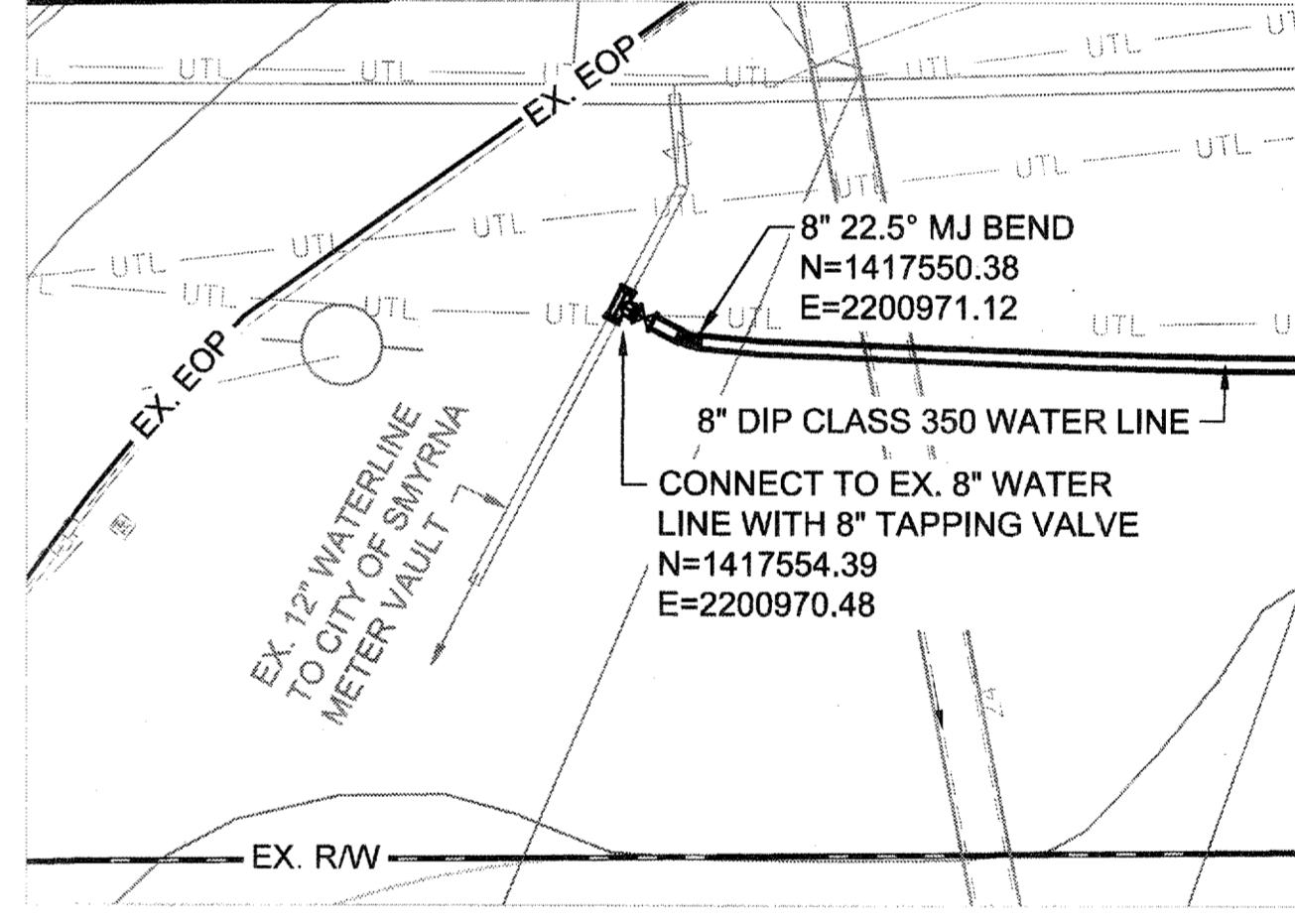
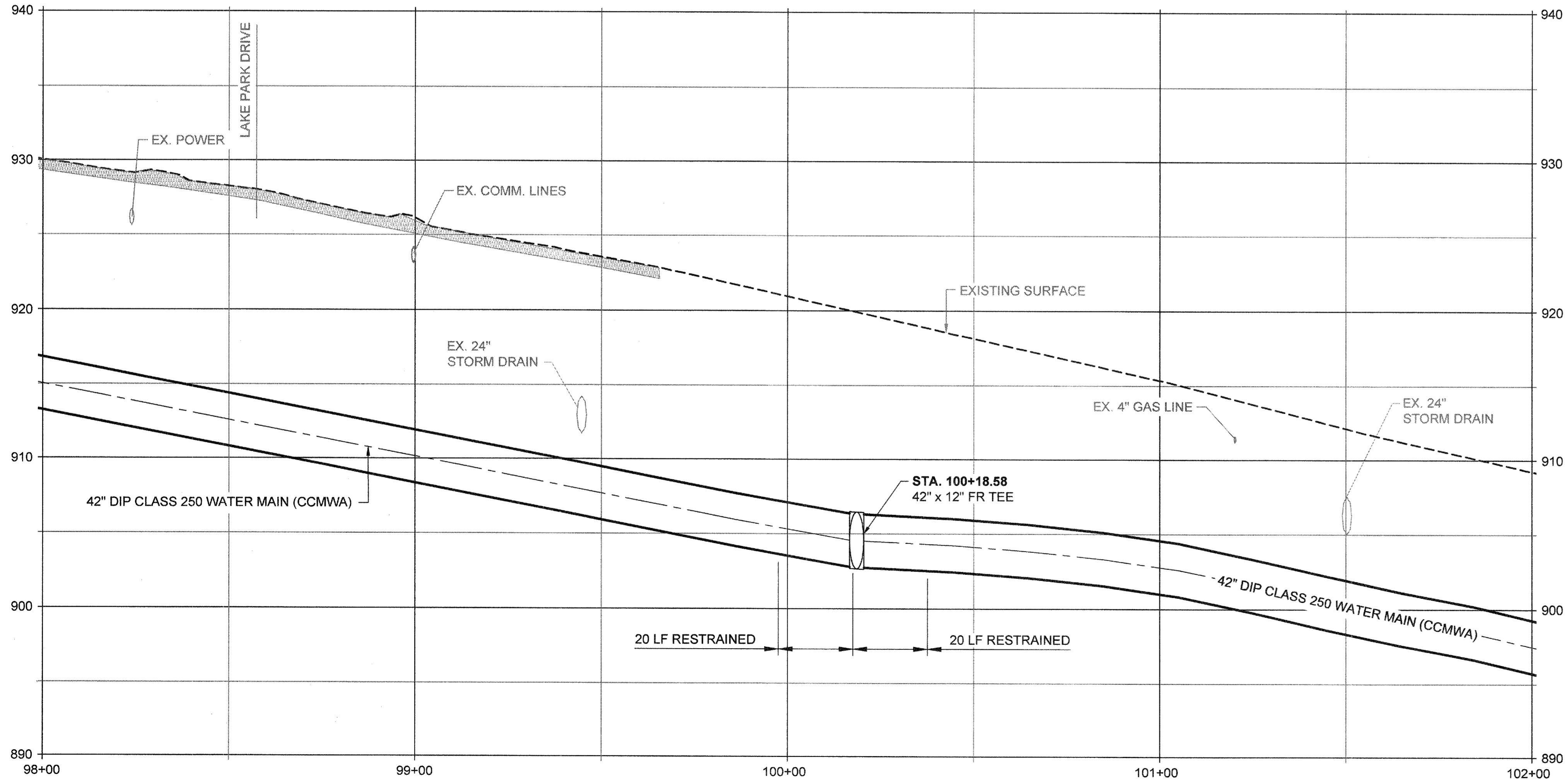
**SL-16A**



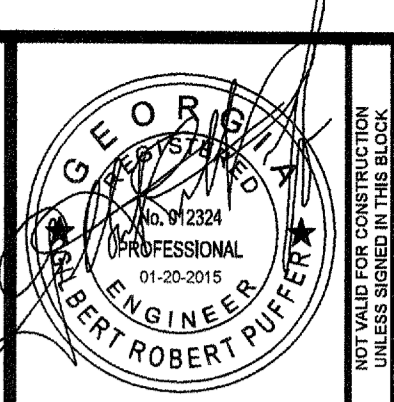
File Name: C:\PW\WORK\ATKNAF\LOT\NEW\7492\VMS00995\00 - PLANS\_PROFS\_SECTS\_DETAILS\DWG\job:1P-17\PlotSet: February 23, 2015 8:37am



SL-17A



DETAIL No. 1  
SCALE: NTS



**ATKINS**  
1600 RiverEdge Parkway, NW, Suite 600  
Atlanta, Georgia 30328  
P: 770-833-0280

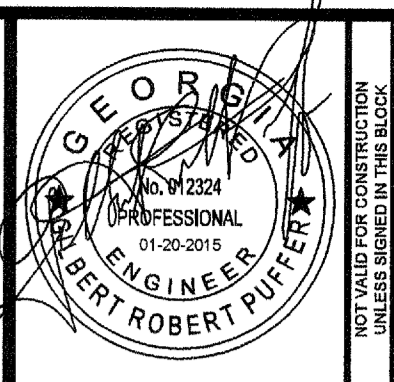
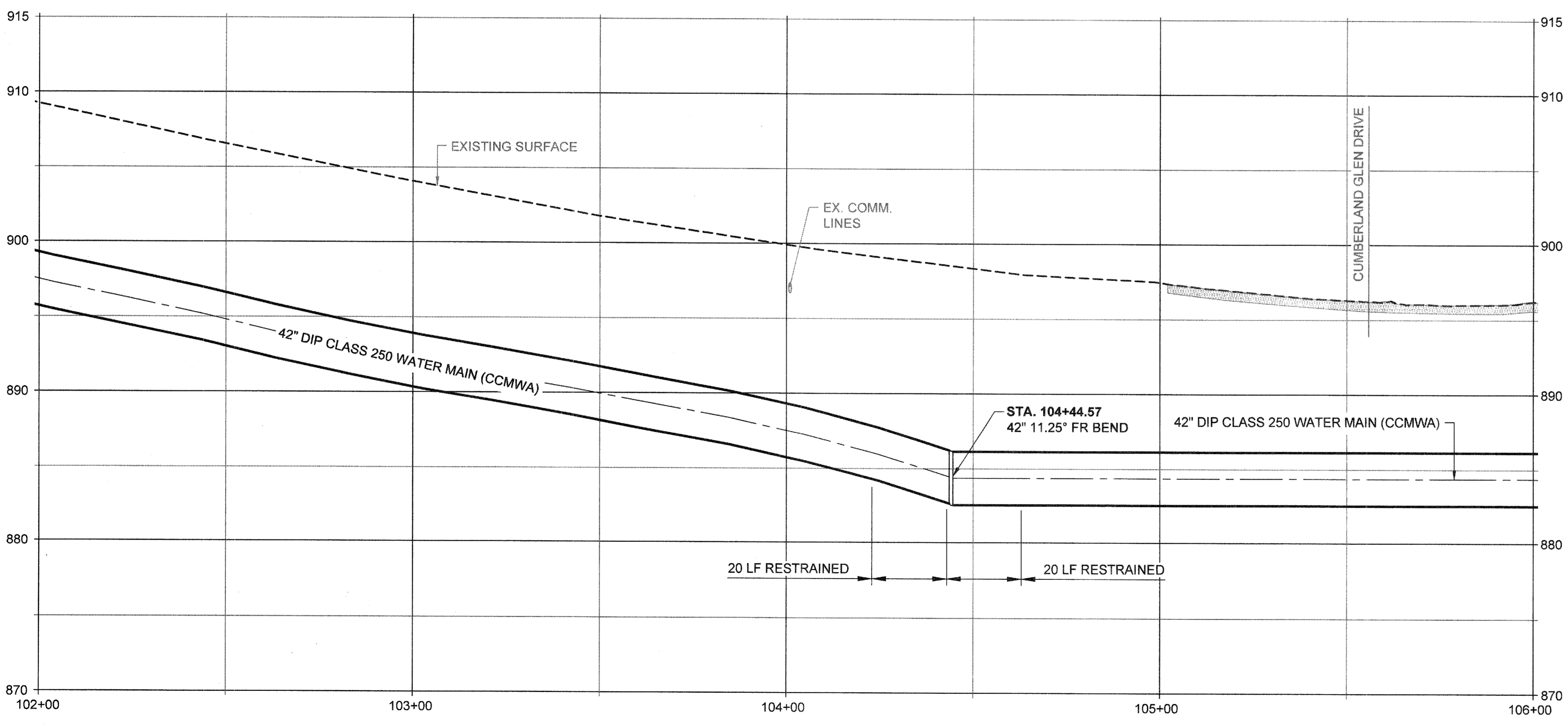
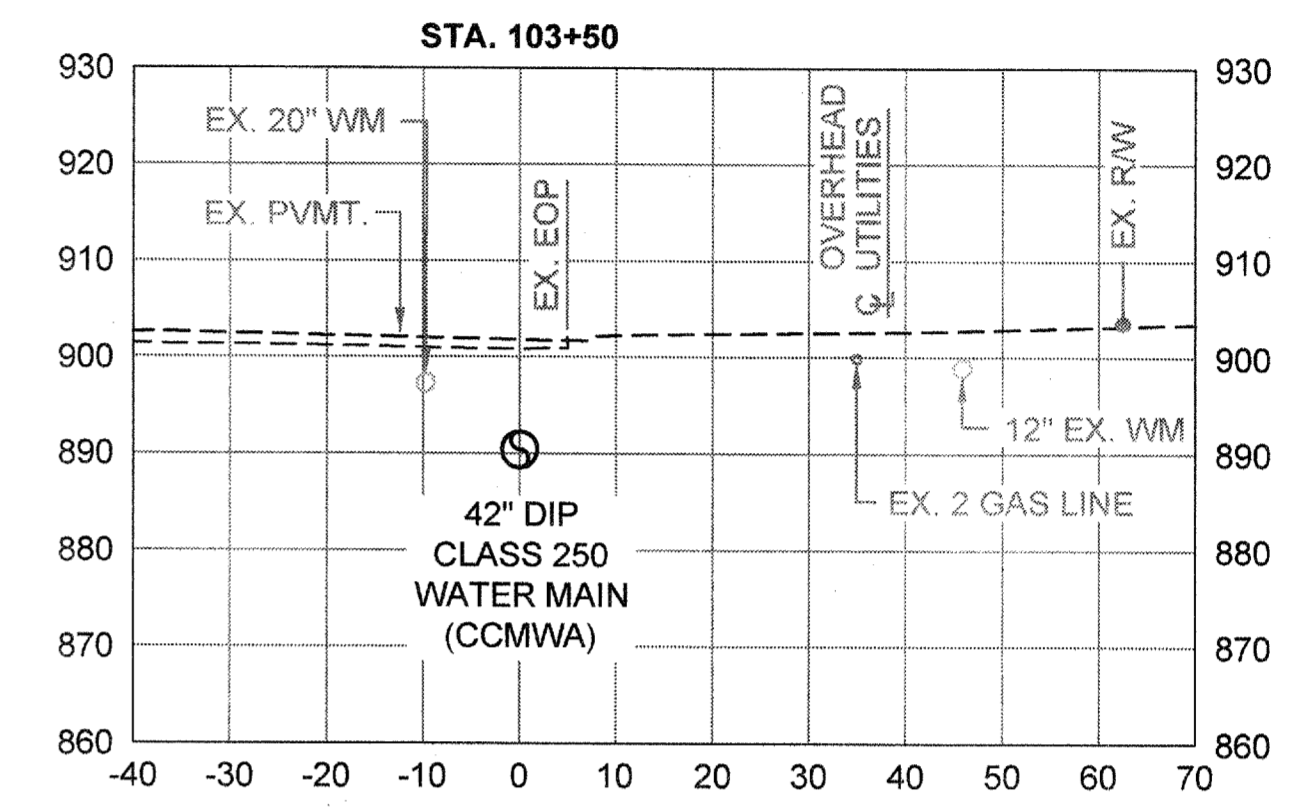
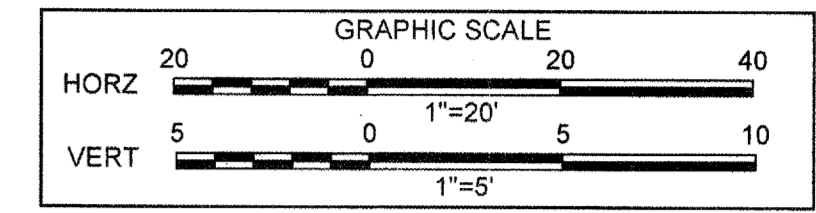
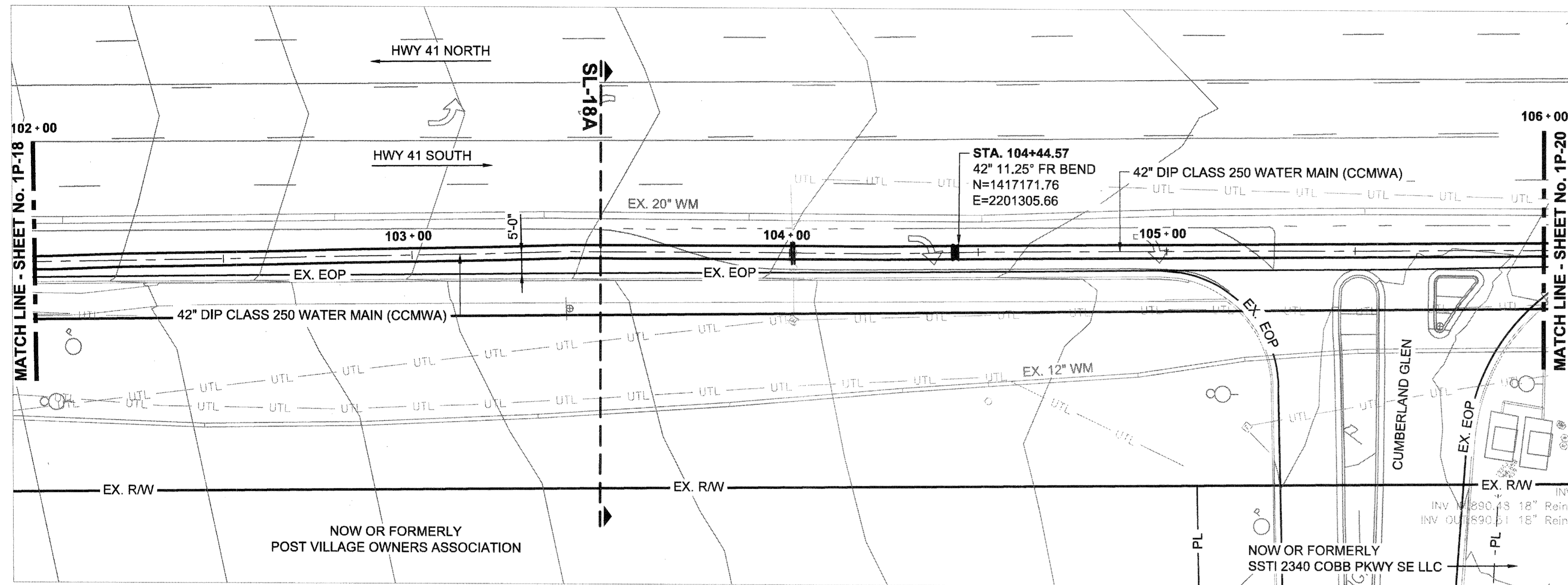


PROJ. No.:	DESIGNED BY:	CHECKED BY:	APPROVED BY:	DATE:	SCALE:
100032548	GRP	JN	GRP	JAN. 2015	AS SHOWN
DATE	REVISION	FOR BID			
01/20/2015					

COBB COUNTY-MARIETTA WATER AUTHORITY  
HIGHWAY 41 PHASE IV  
WATER MAIN  
**PLAN, PROFILE,  
SECTION, AND DETAIL**

SHEET No.  
**1P-18**  
100032548

File Name: C:\PW\_WORK\ATKNAFL01\NEW7492\MS00998\00 - PLANS\_PROFES\_SECTS\_DETAILS\DWG\04-IP-18\04-IP-18.dwg; February 19, 2015 7:17am



**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 800  
 Atlanta, Georgia 30328  
 P: 770-633-0280

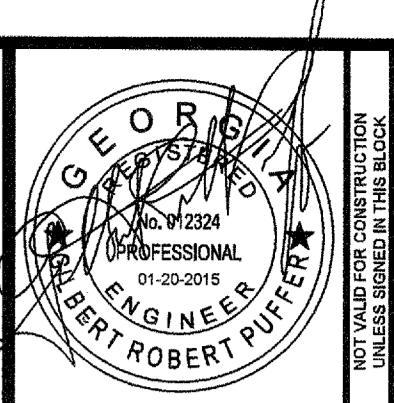
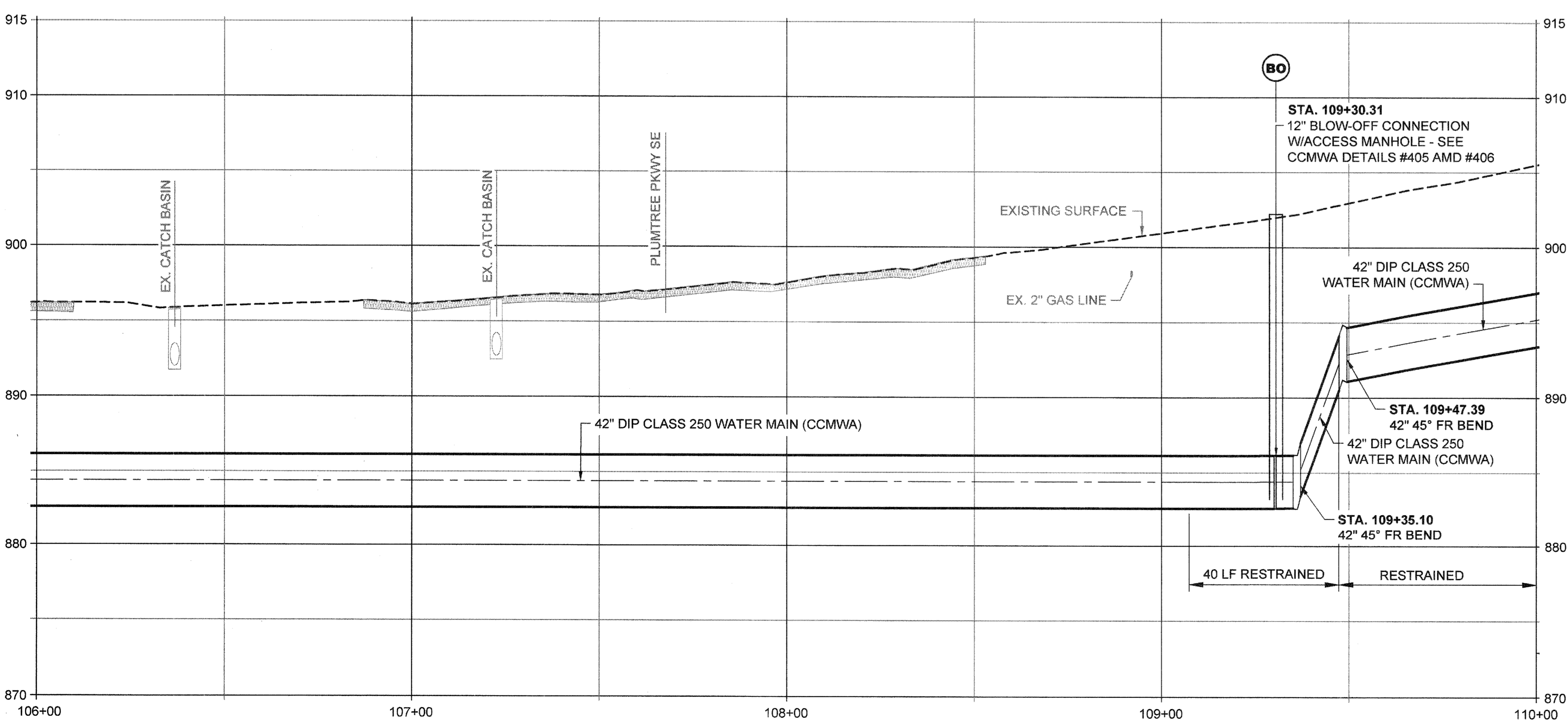
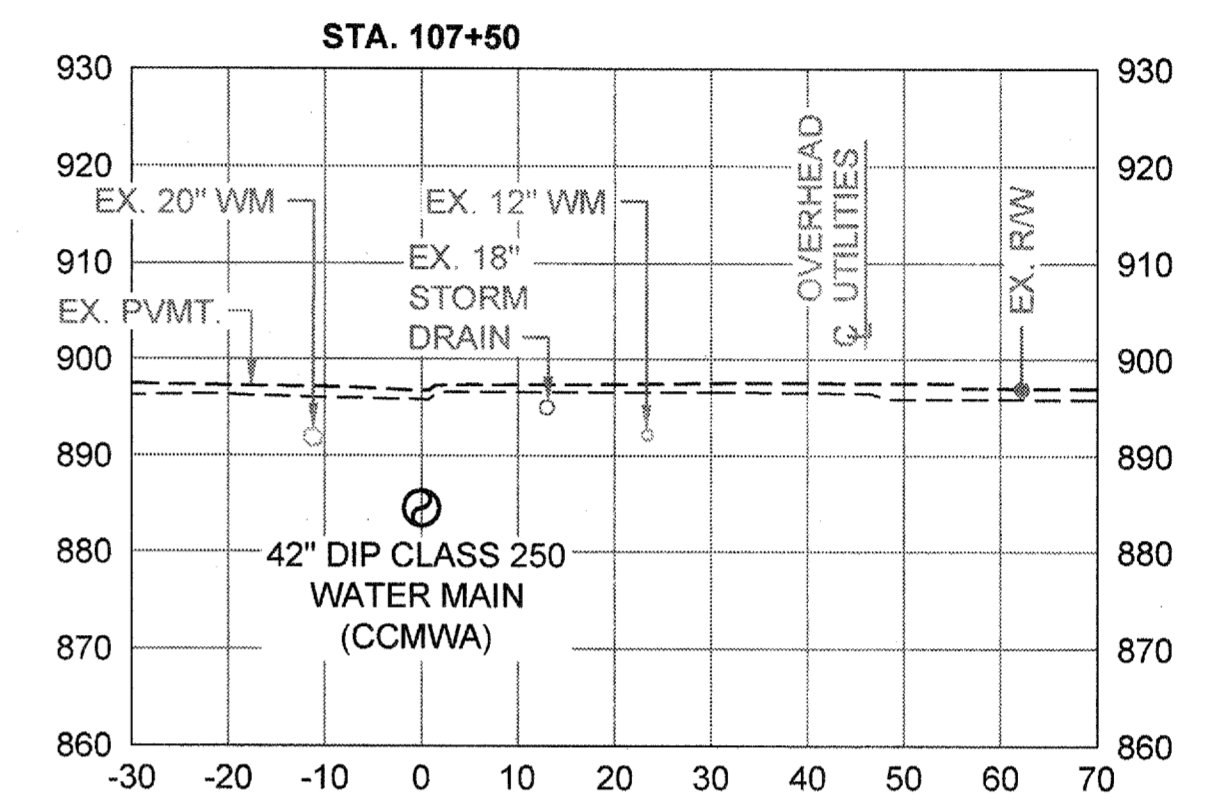
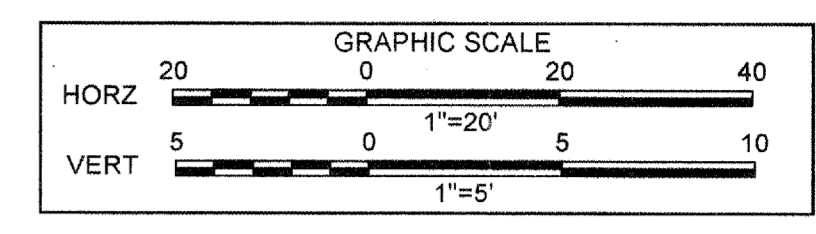
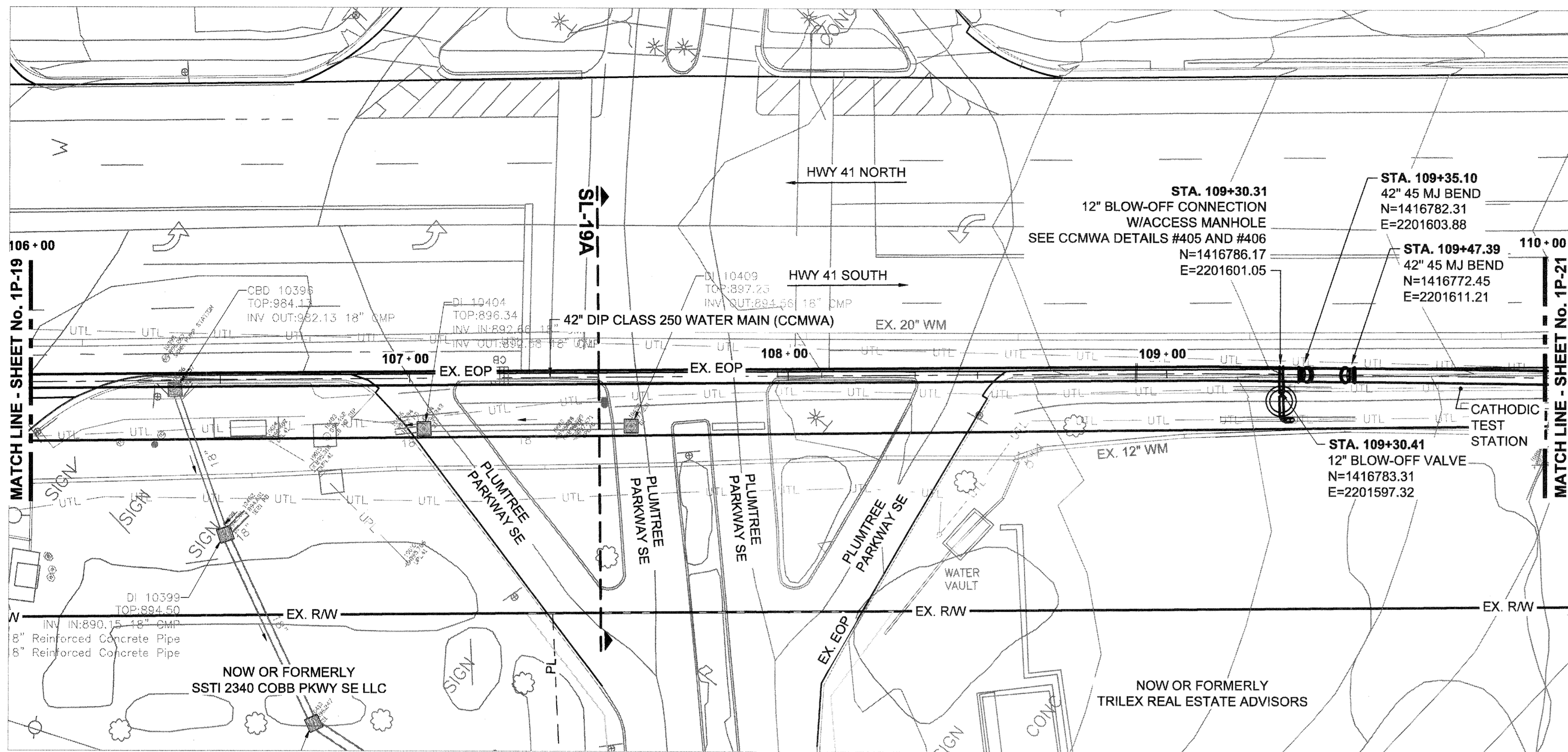


PROJ. No.:	DATE	REVISION
100032548	01/20/2015	
DESIGNED BY: GRP		
DRAWN BY: JN		
CHECKED BY: GRP		
APPROVED BY: GRP		
DATE: JAN. 2015		
SCALE: AS SHOWN		

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN  
**PLAN, PROFILE, SECTION**

SHEET No.  
**1P-19**  
 100032548

File Name: C:\PW\_WORK\ATKNAFLOT\NEW7492\DMSC0998\00 - PLANS\_PROFS\_SECTS\_DETAILS.DWG Job: IP-19 Job Date: February 23, 2015 8:45am



**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P. 770-933-0280



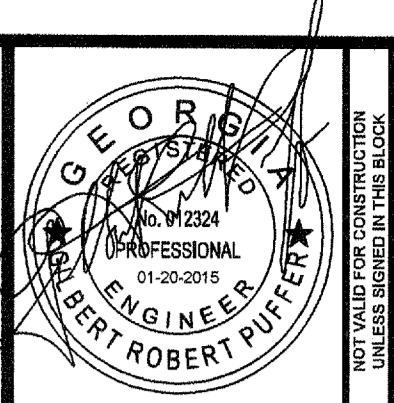
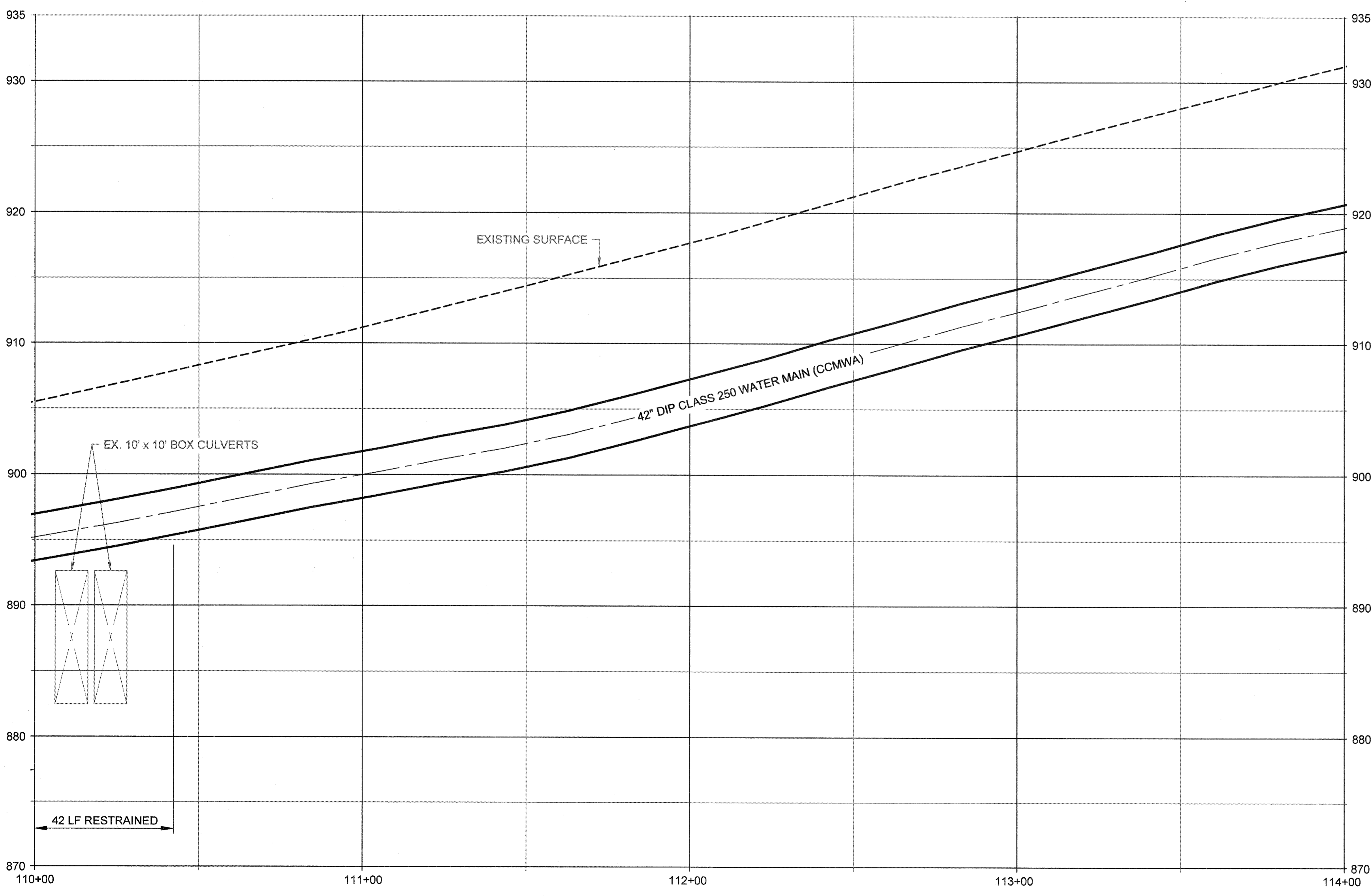
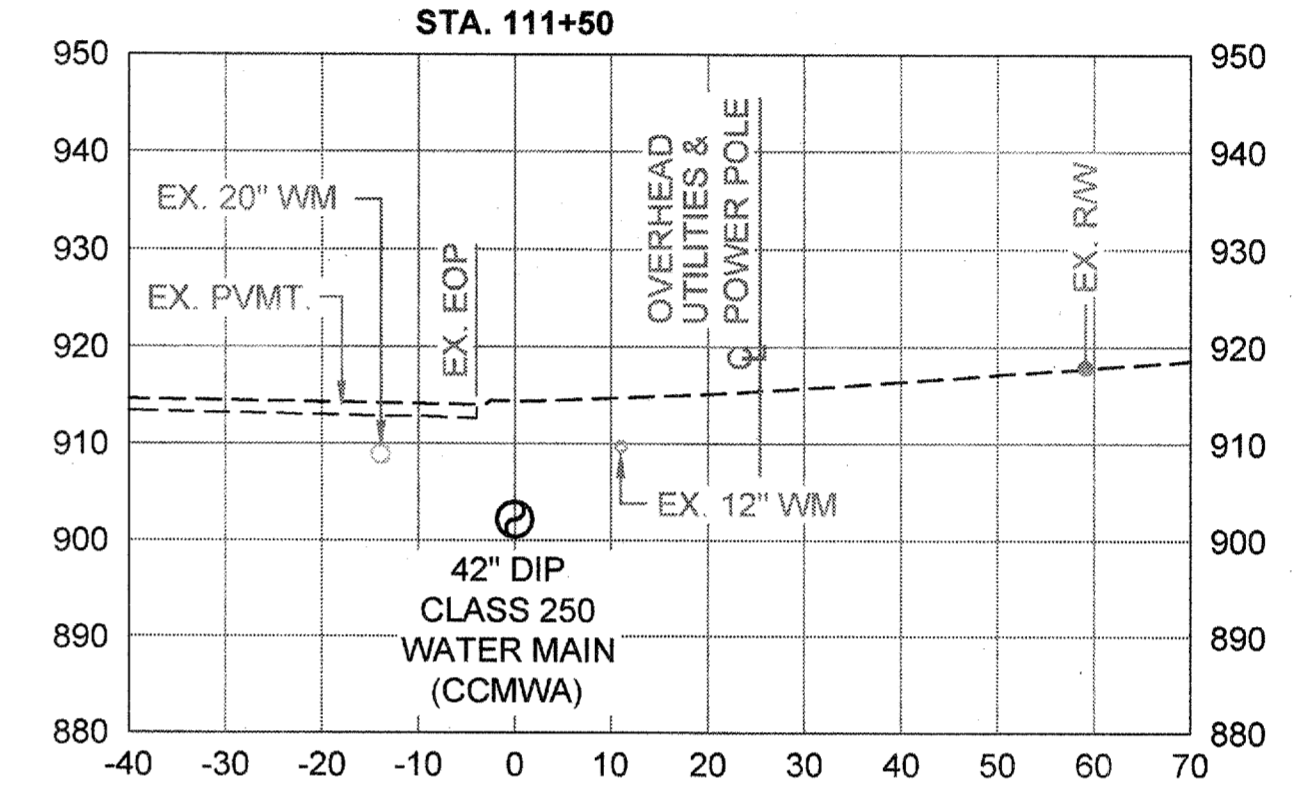
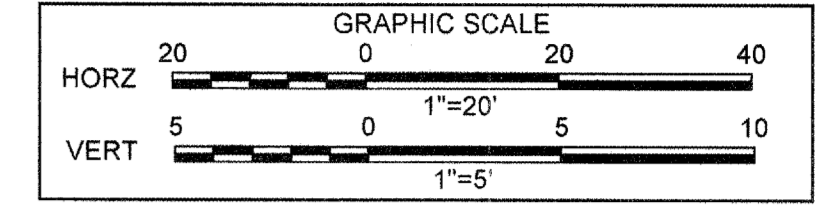
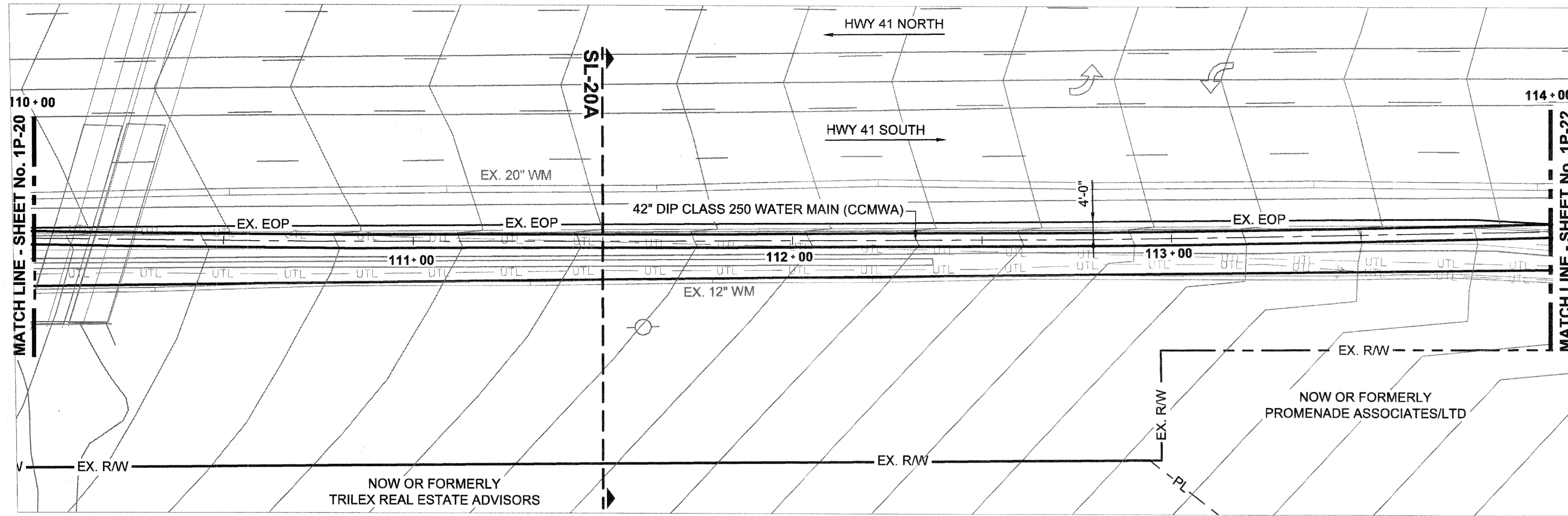
DATE	REVISION
01/20/2015	FOR BID
10/03/2014	DESIGNED BY: GRP
	DRAWN BY: JN
	CHECKED BY: GRP
	APPROVED BY: GRP
	DATE: JAN. 2015
	SCALE: AS SHOWN

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN  
**PLAN, PROFILE, SECTION**

SHEET No.  
**1P-20**  
 100032548

File Name: C:\PW\_WORK\ATKNAE\01\NEW7492\DIS00998\00 - PLANS\_PROFS\_SECTS\_DETAILS.DWG | Tab: 1P-20 | Plotted: February 19, 2015 7:24am





**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-893-0280

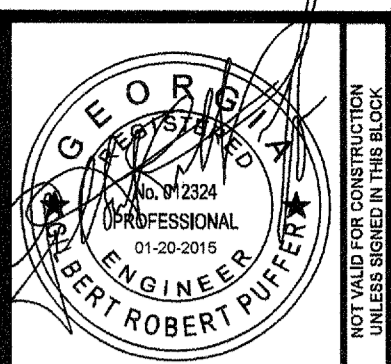
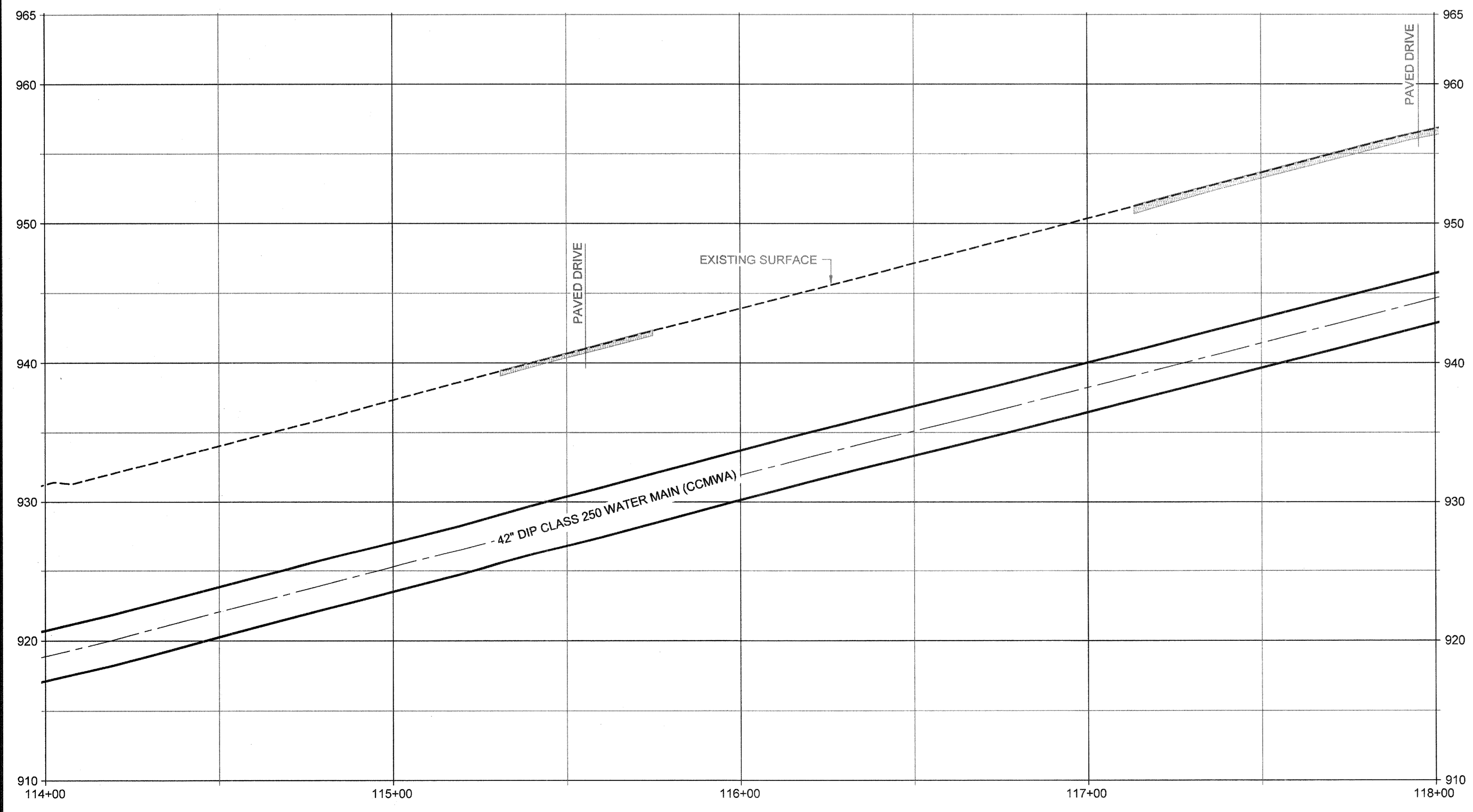
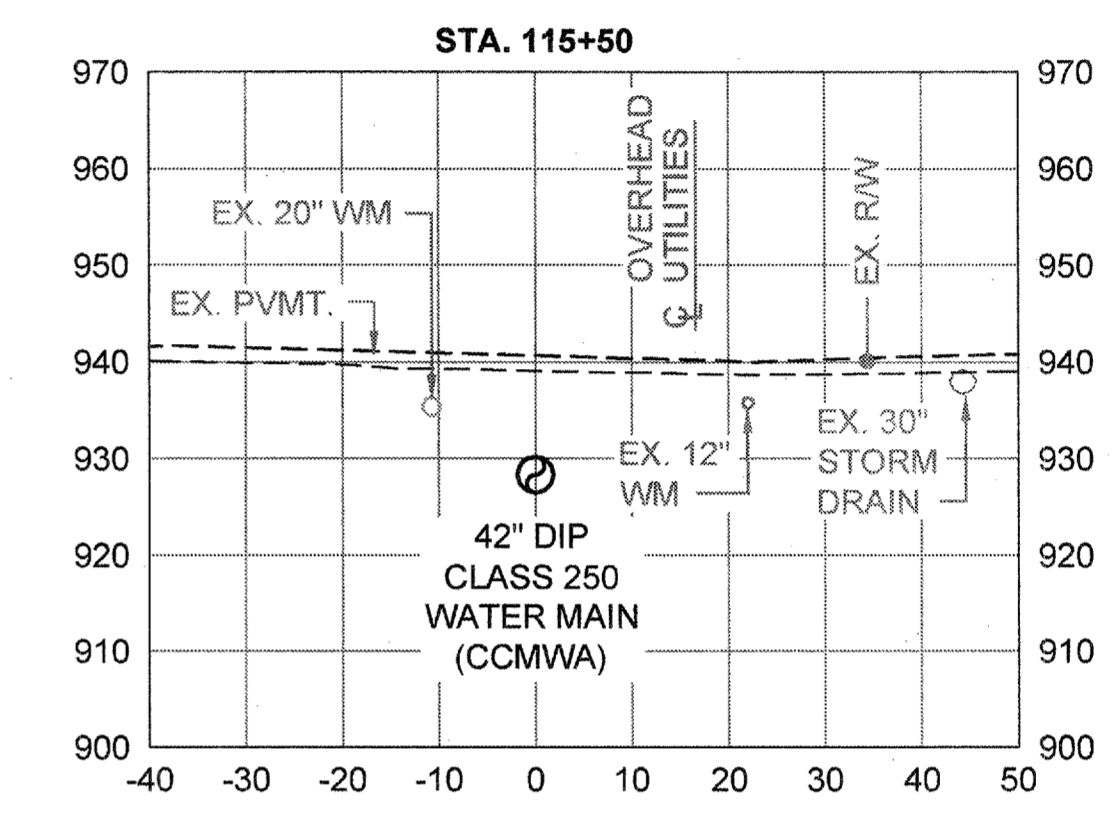
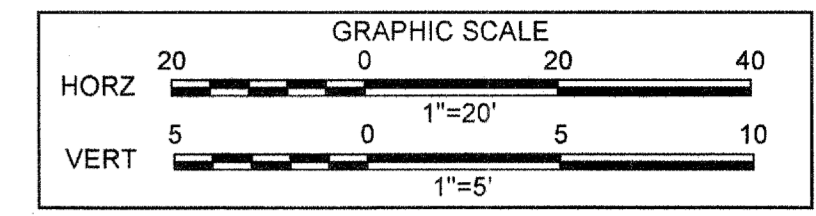
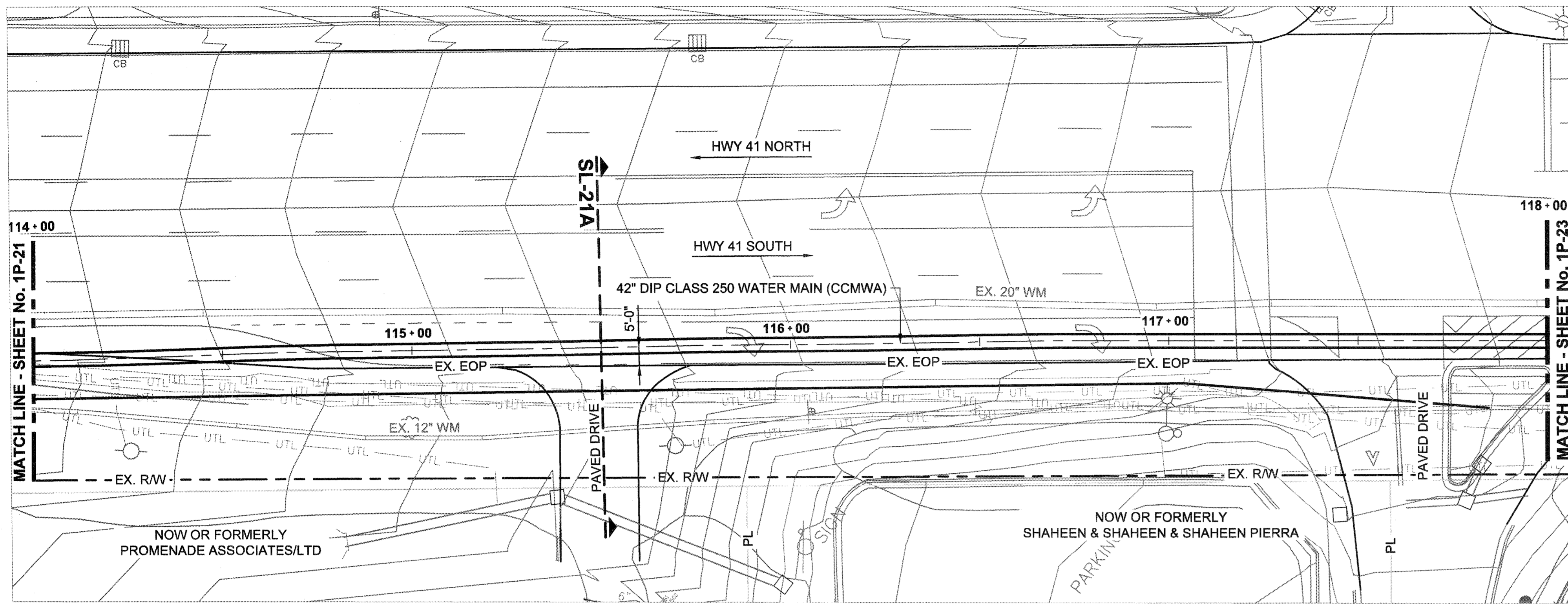


DATE	01/20/2015
REVISION	
FOR BID	
DESIGNED BY: GRP	100032548
DRAWN BY: JN	
CHECKED BY: GRP	
APPROVED BY: GRP	
DATE: JAN. 2014	
SCALE: AS SHOWN	

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN  
**PLAN, PROFILE, SECTION**

SHEET No.  
**1P-21**  
 100032548

File Name: C:\PW\_WORK\ATK\A\LO1\NEW\7492\DWG\SECTIS\_SECTION\DETAILS.DWG(Top: 1P-21) Plotted: February 19, 2015 7:26am



**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-933-0280

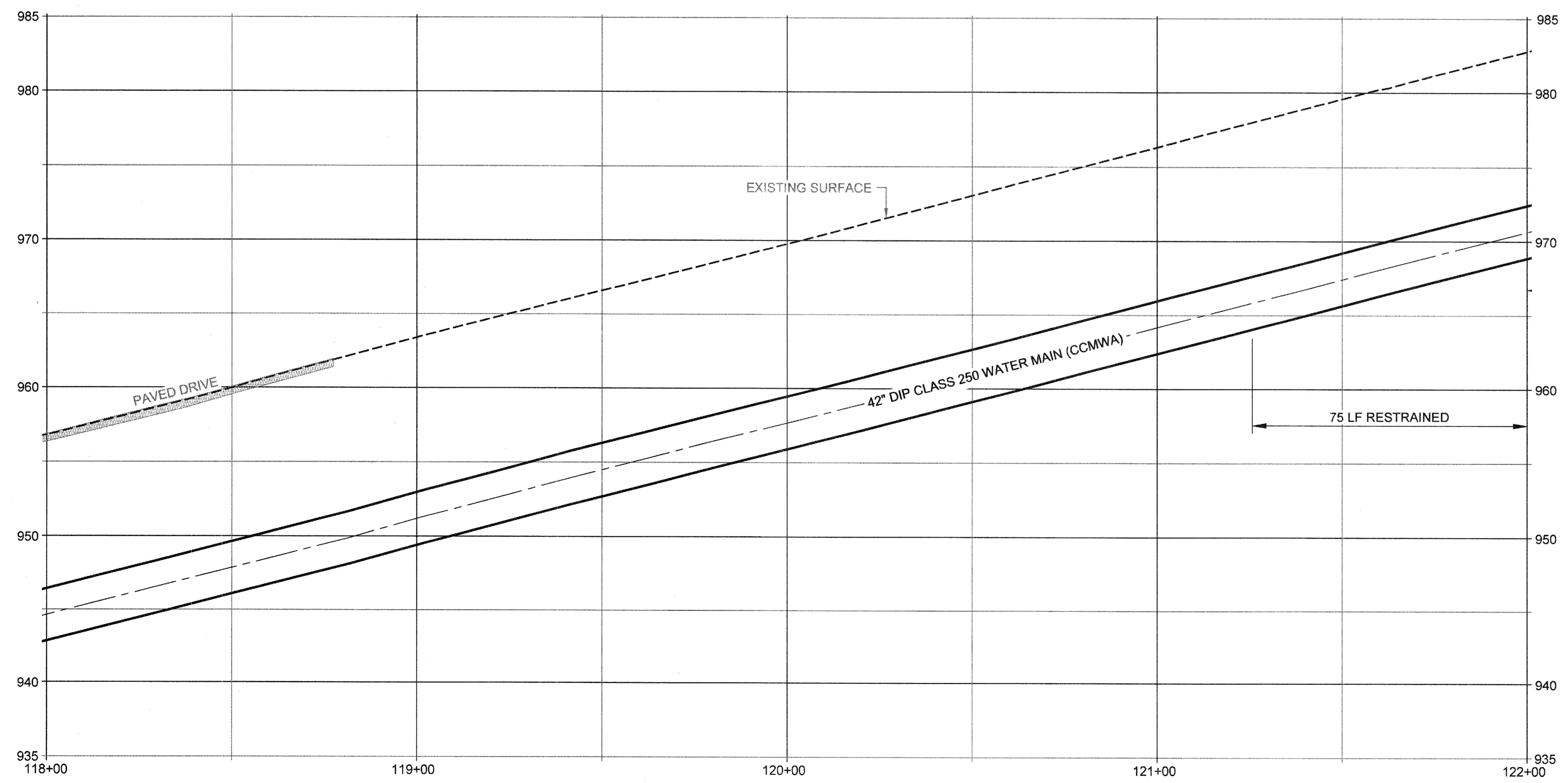
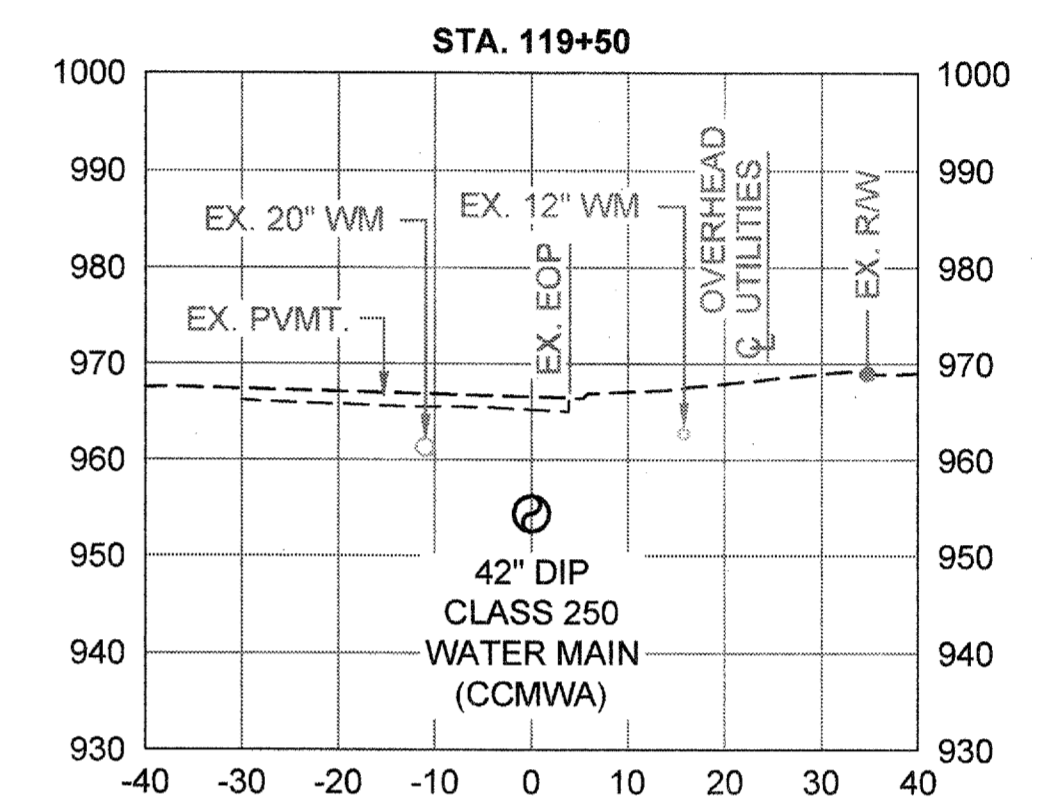
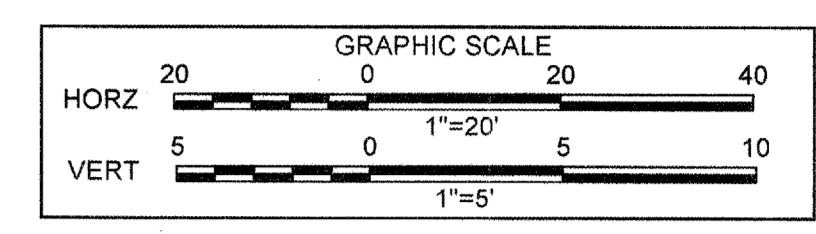
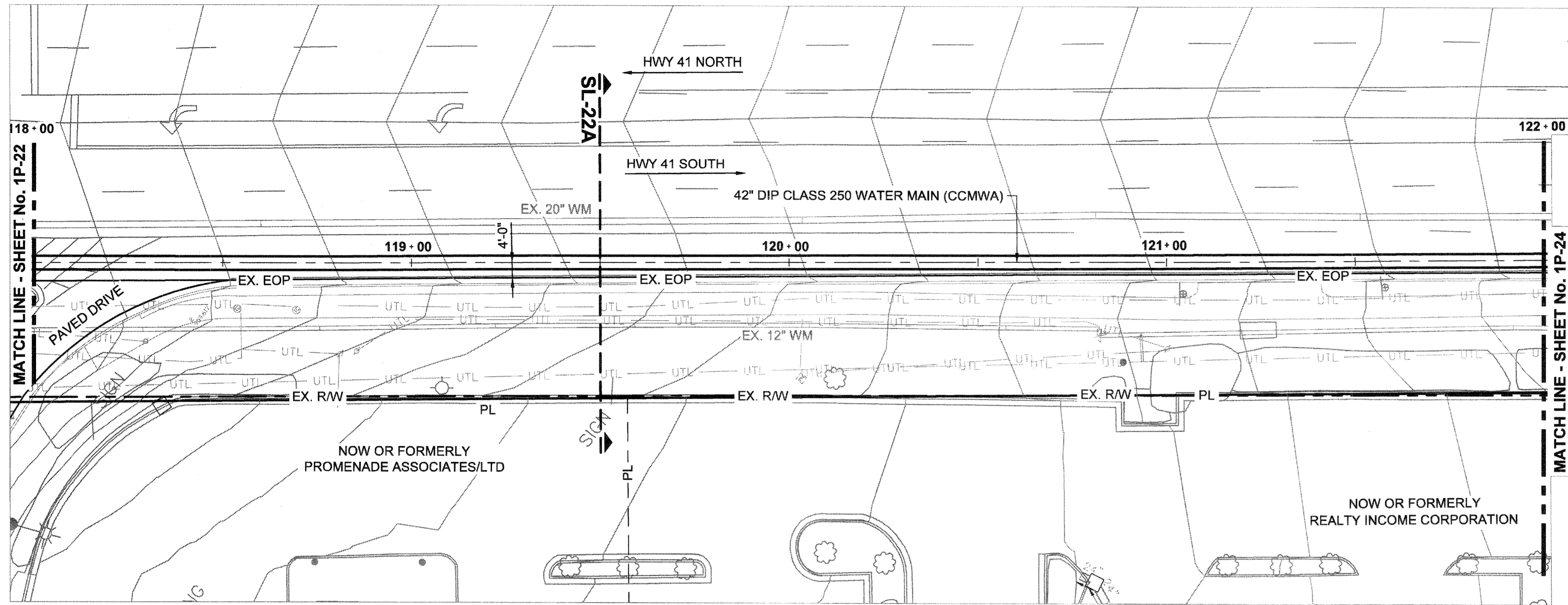


PROJ. No.:	DATE
100032548	01/20/2015
DESIGNED BY: GRP	REVISION
DRAWN BY: JN	FOR BID
CHECKED BY: GRP	
APPROVED BY: GRP	
DATE: JAN. 2015	
SCALE: AS SHOWN	

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN  
**PLAN, PROFILE, SECTION**

SHEET No.  
**1P-22**  
 100032548

File Name: C:\PW\_MGRK\A\TRK\AFLO\VIEW\7492\MS00998\00 - PLANS\_PROFS\_SECTS\_DETAILS.dwg Tab: 1P-22 Plotted: February 19, 2015 7:29am



**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-933-0280



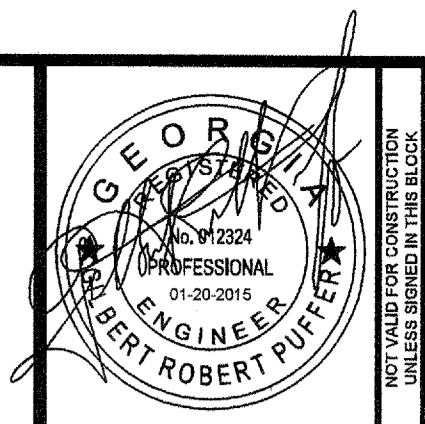
DATE	REVISION
01/20/2015	FOR BID

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN

DESIGNED BY: GRP  
 DRAWN BY: JN  
 CHECKED BY: GRP  
 APPROVED BY: GRP  
 DATE: JAN. 2015  
 SCALE: AS SHOWN

SHEET No.  
**1P-23**  
 100032548

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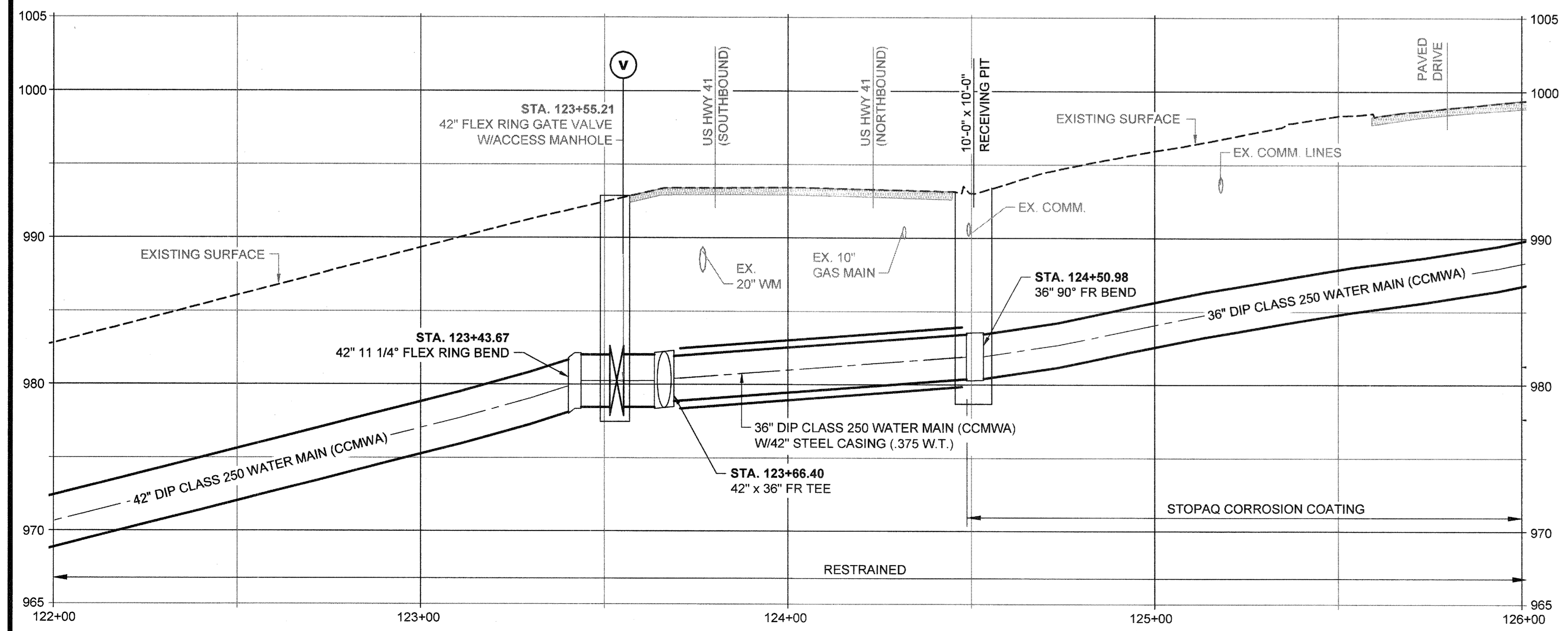
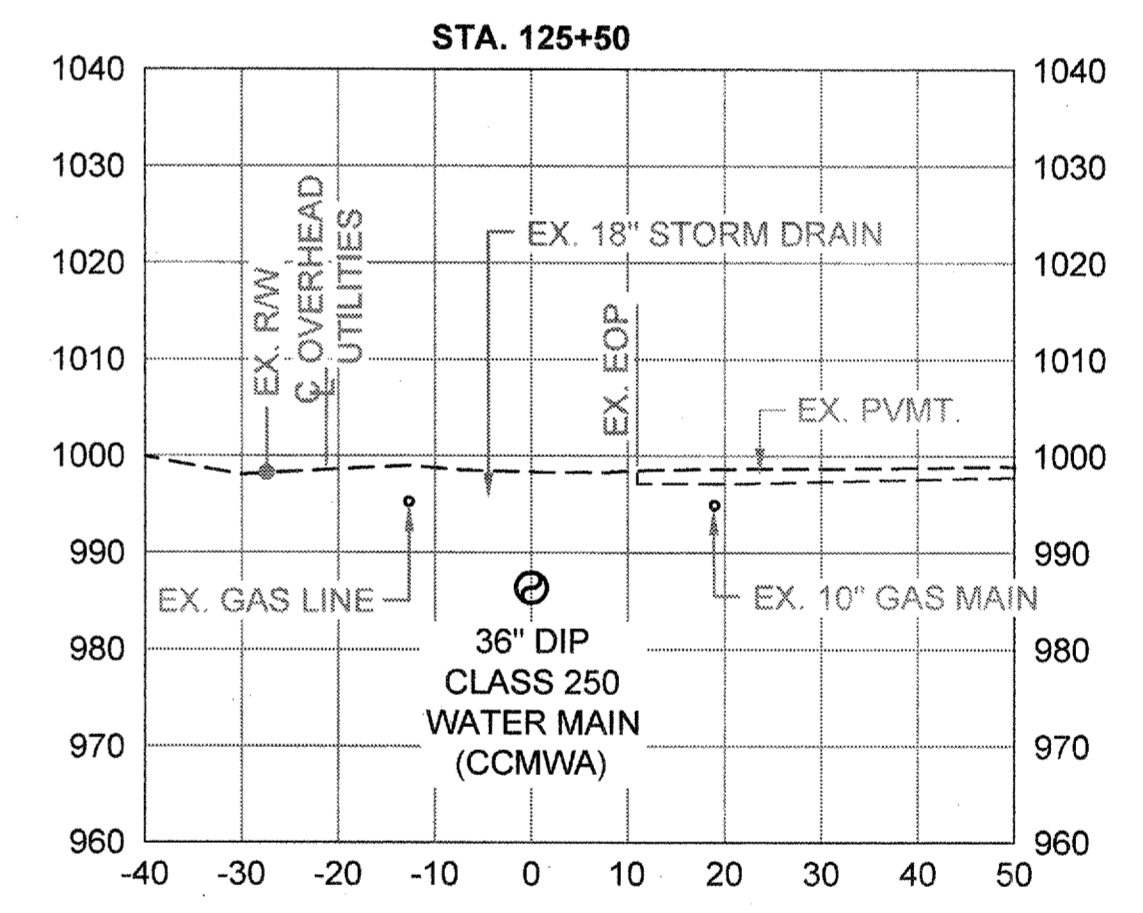
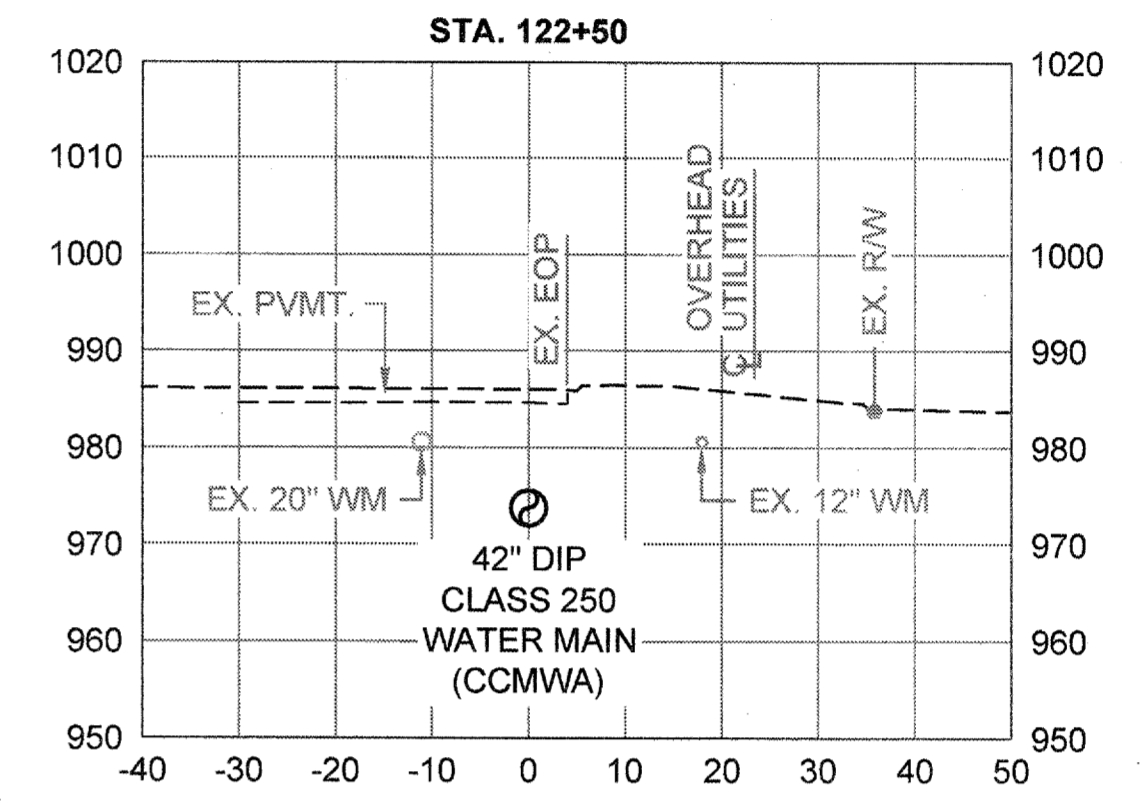
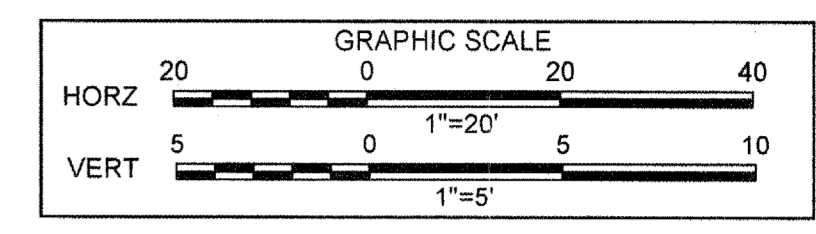
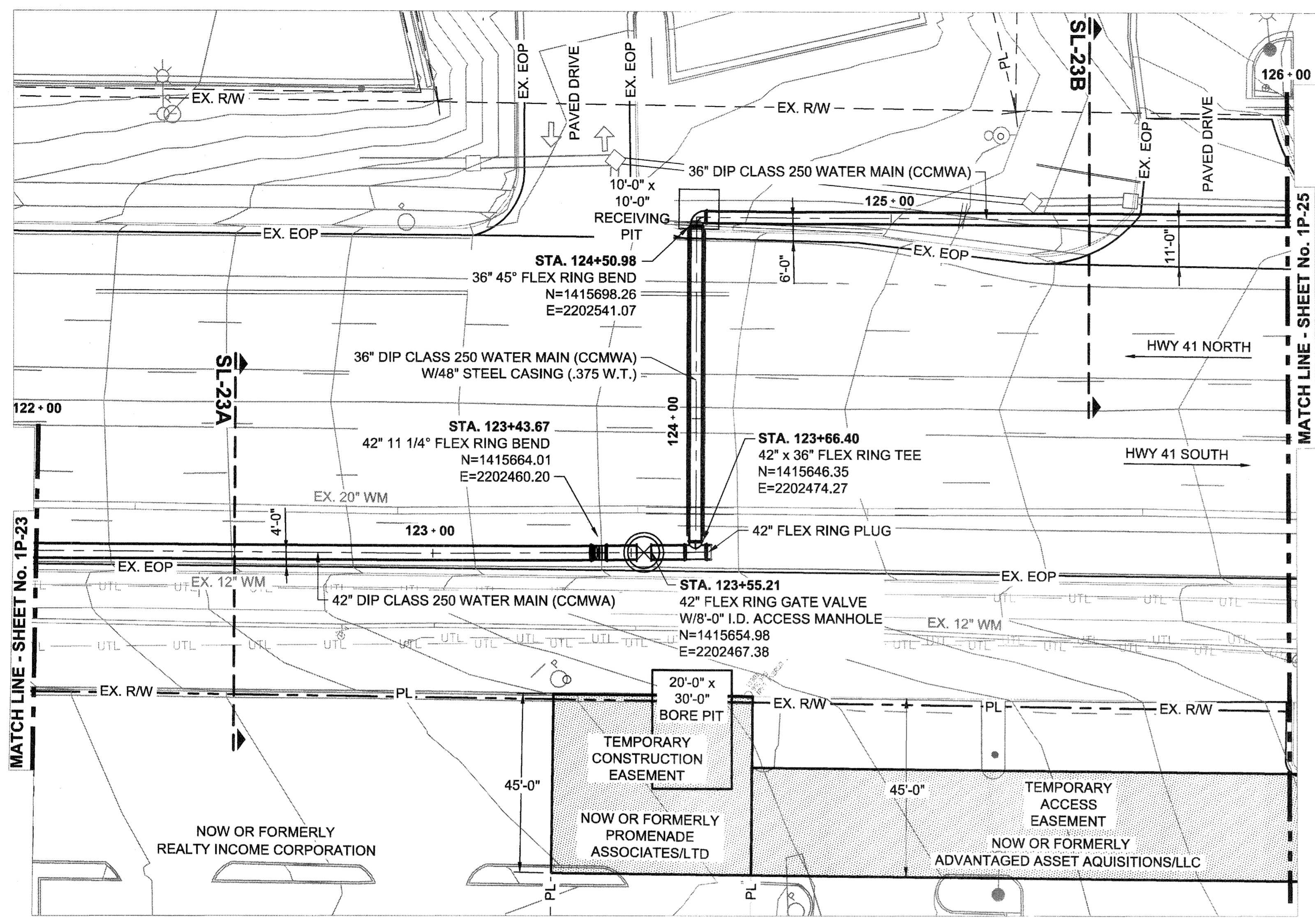
**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-933-0280



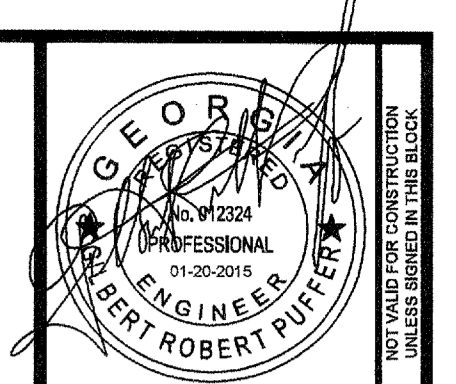
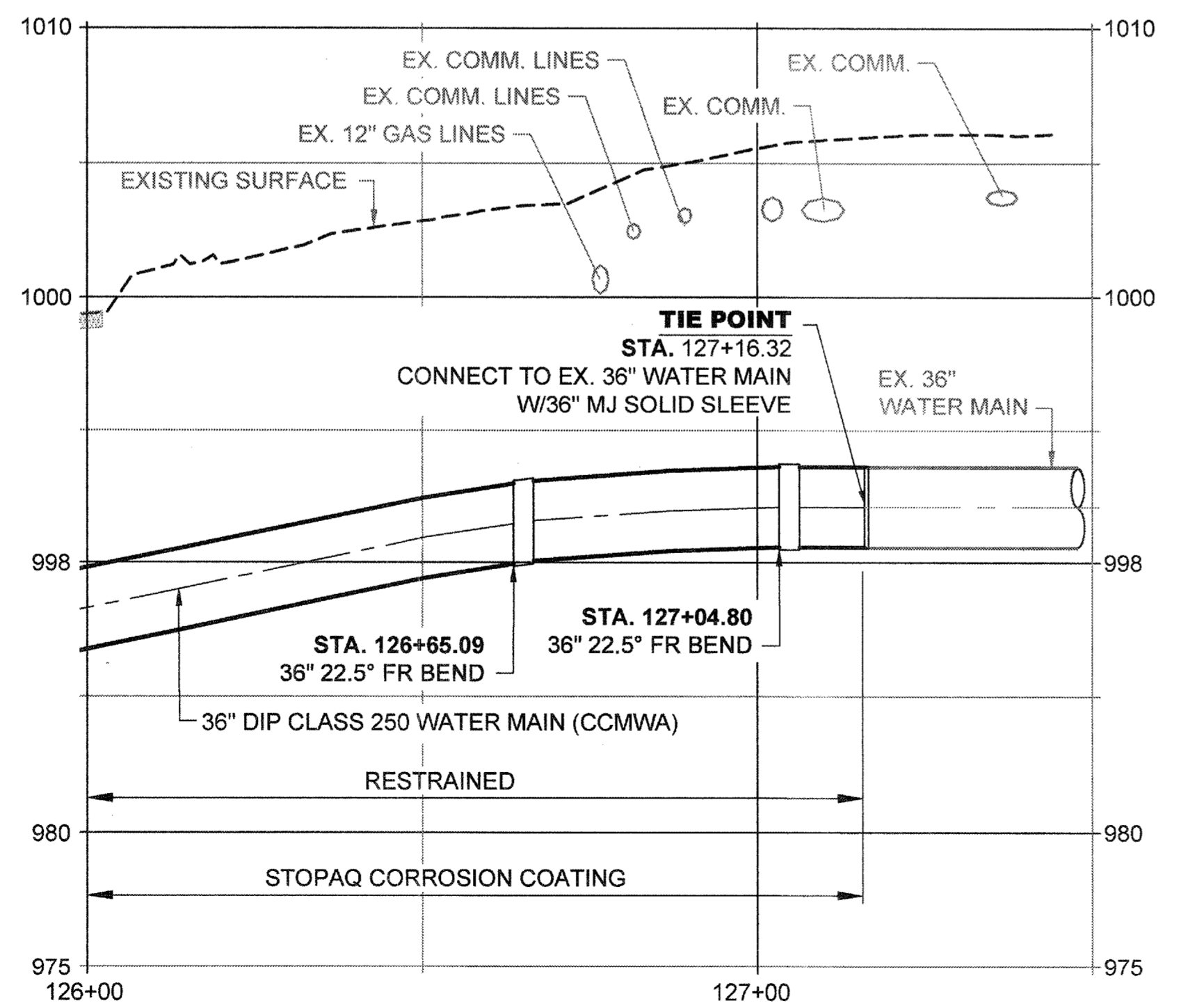
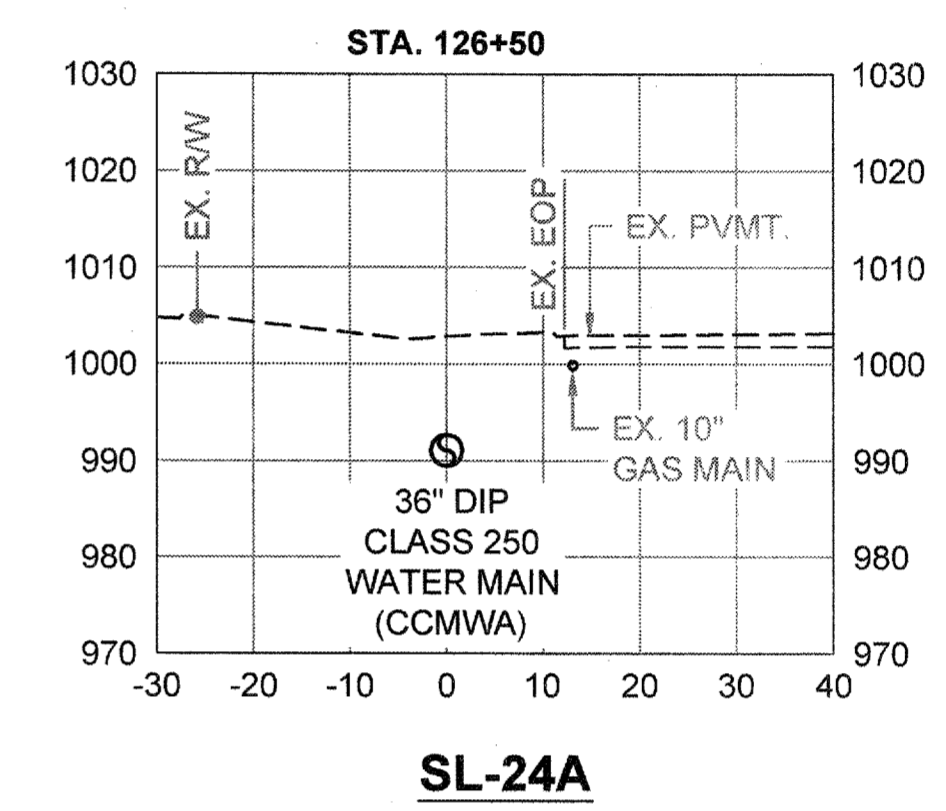
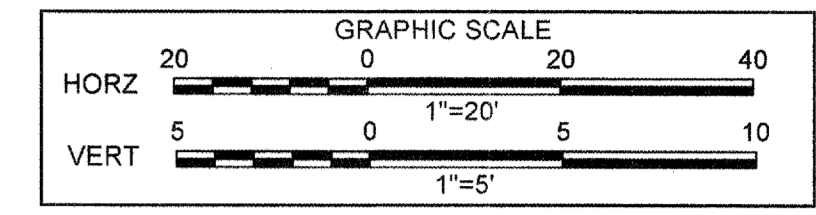
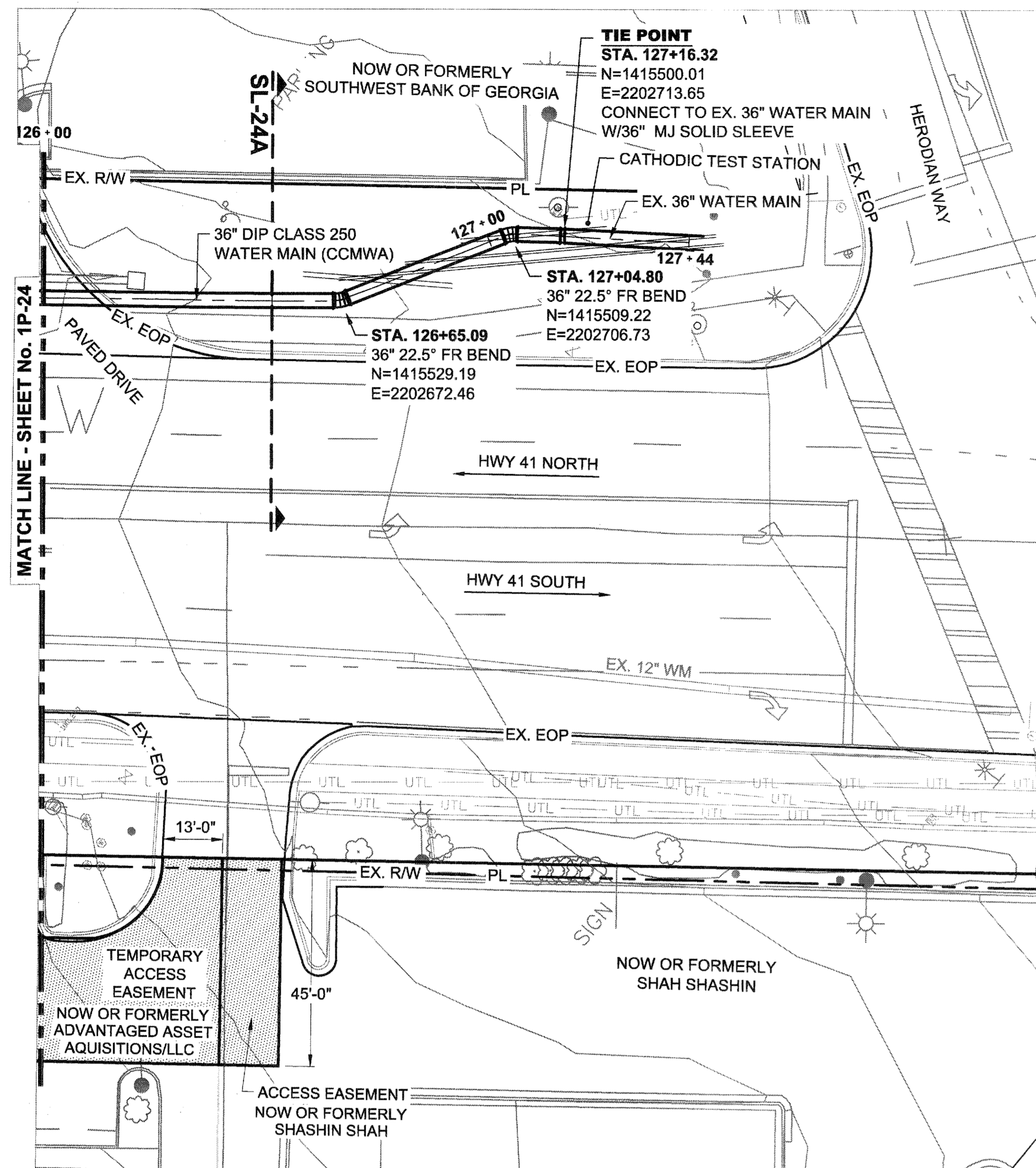
DATE	REVISION	FOR BID	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	DATE	SCALE
01/20/2015			GRP	JN	GRP	GRP	JAN. 2015	AS SHOWN

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN  
**PLAN, PROFILE, SECTIONS**

SHEET No.  
**1P-24**  
 100032548



File Name: C:\VW\_WORK\ATKNAE101\NEW\17482\DWG\SECT1\_DETAILS.DWG | Tab: 1P-24 | Plotted: February 23, 2015 6:49am



**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-933-0280



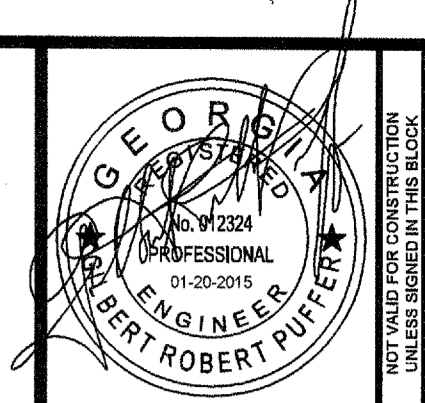
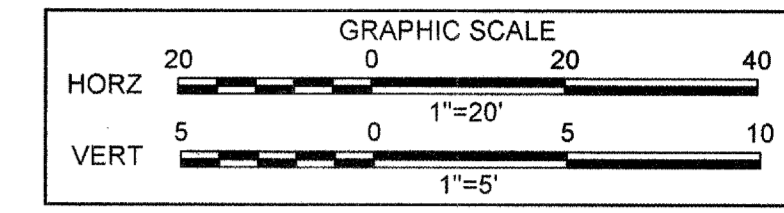
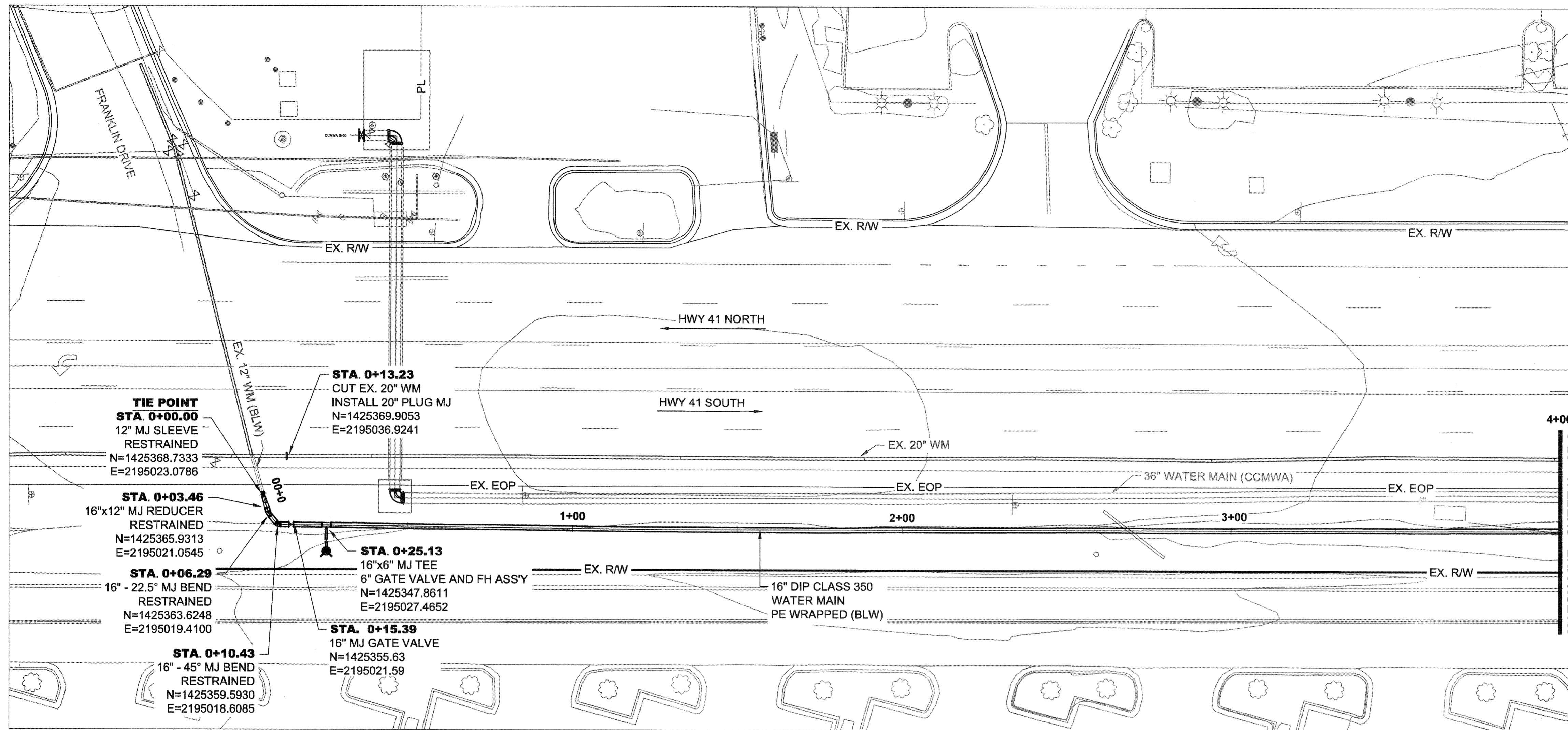
DATE	REVISION
01/20/2015	FOR BID

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN

DESIGNED BY: GRP  
 DRAWN BY: JN  
 CHECKED BY: GRP  
 APPROVED BY: GRP  
 DATE: JAN. 2015  
 SCALE: AS SHOWN

SHEET No.  
**1P-25**  
 100032548

File Name: C:\PIW\WORK\ATKINAF01\NEW\7482\DWG\0098\00 - PLANS\_PROFS\_SECTS\_DETAILS\DWG\1P-25\Plotter: February 23, 2015 6:54am



**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-833-0280

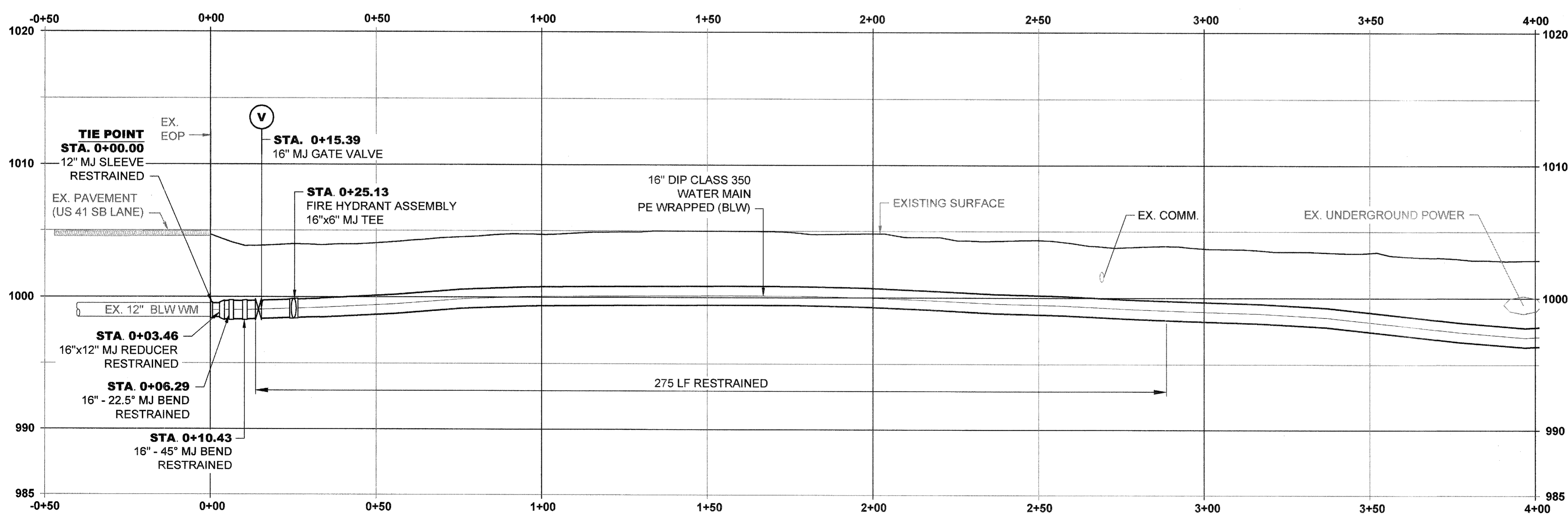


DATE	REVISION
01/20/2015	FOR BID

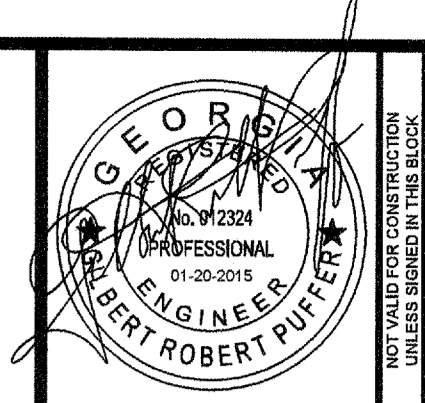
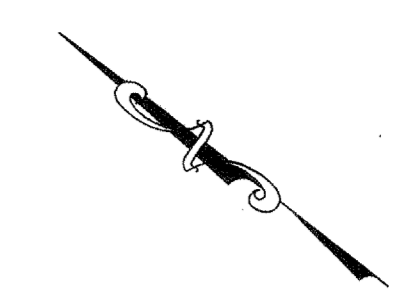
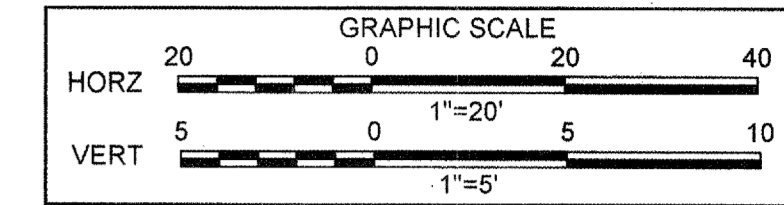
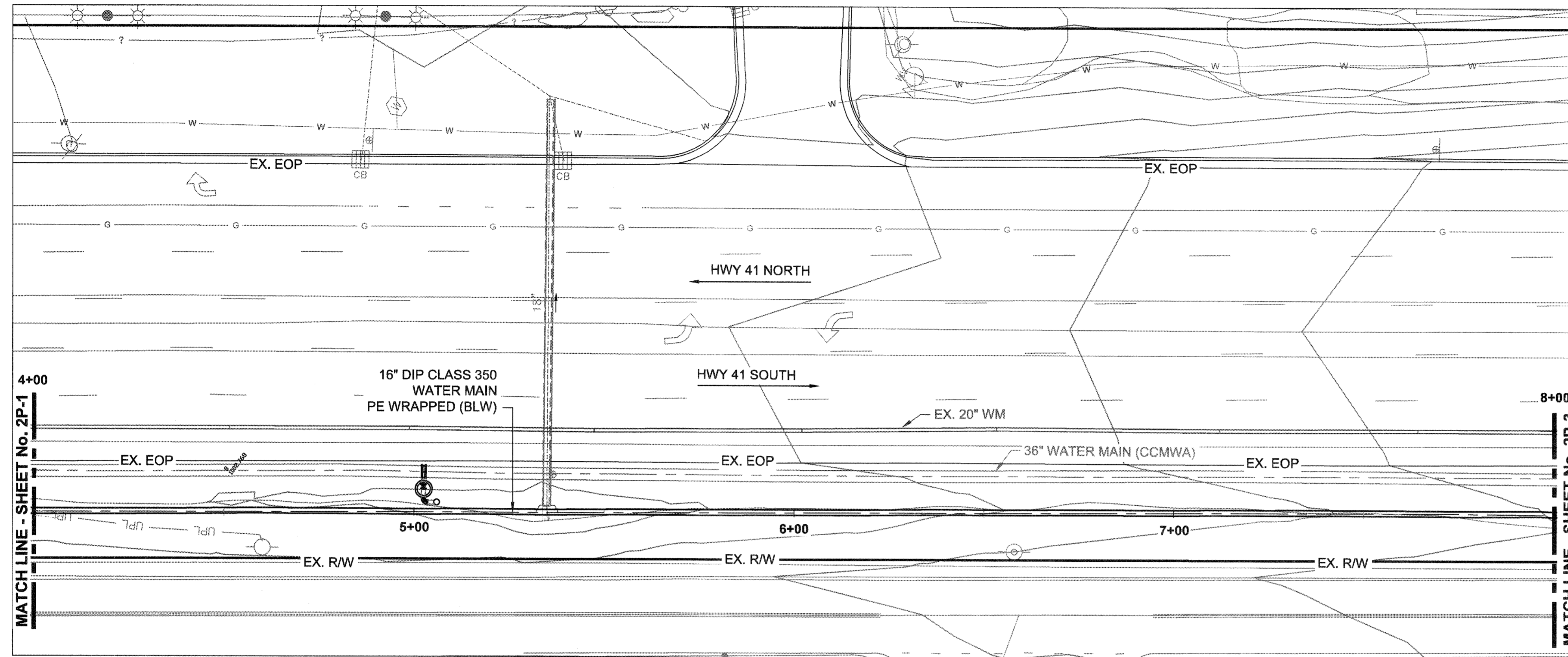
COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE 4  
 WATER MAIN

DESIGNED BY: GRP  
 DRAWN BY: JN  
 CHECKED BY: GRP  
 APPROVED BY: GRP  
 DATE: JAN, 2015  
 SCALE: AS SHOWN

SHEET No.  
**2P-1**  
 100034854



File Name: C:\PW\_WORK\ATKNAE\01\NEW\7492\DM501040\2P-1 THROUGH 2P-13 BLWDWG\Tab: 2P-1 Plotted: February 18, 2015 2:12pm



**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-993-0280

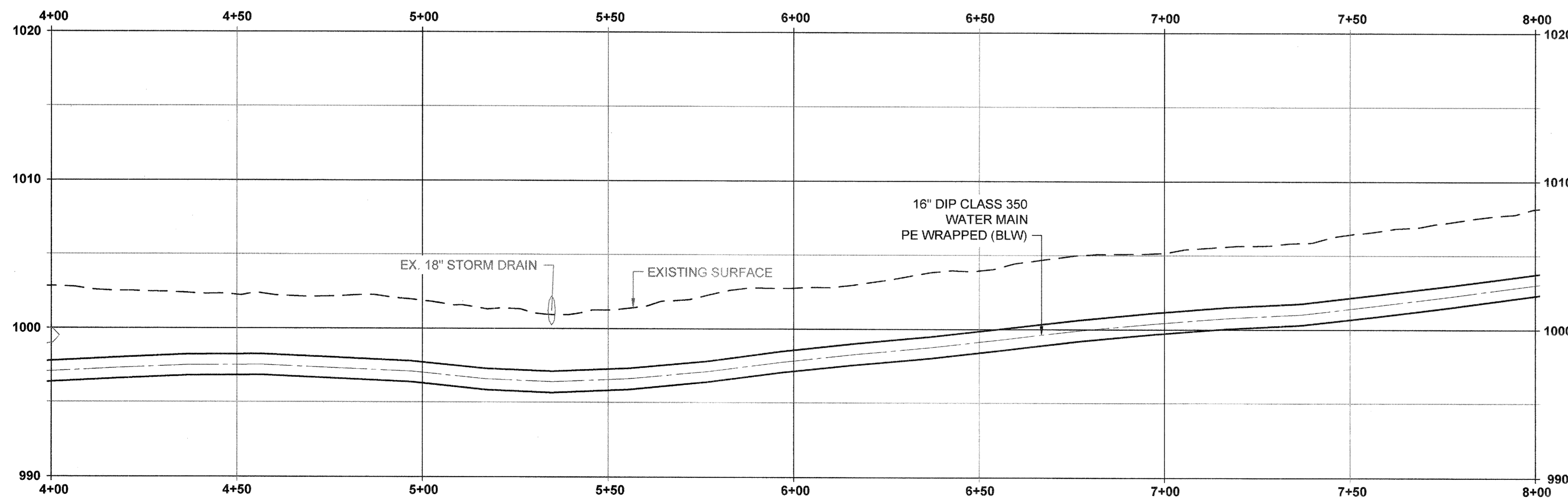


REVISION	DATE
FOR BID	01/20/2015

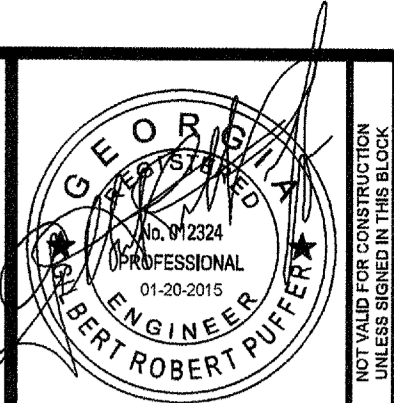
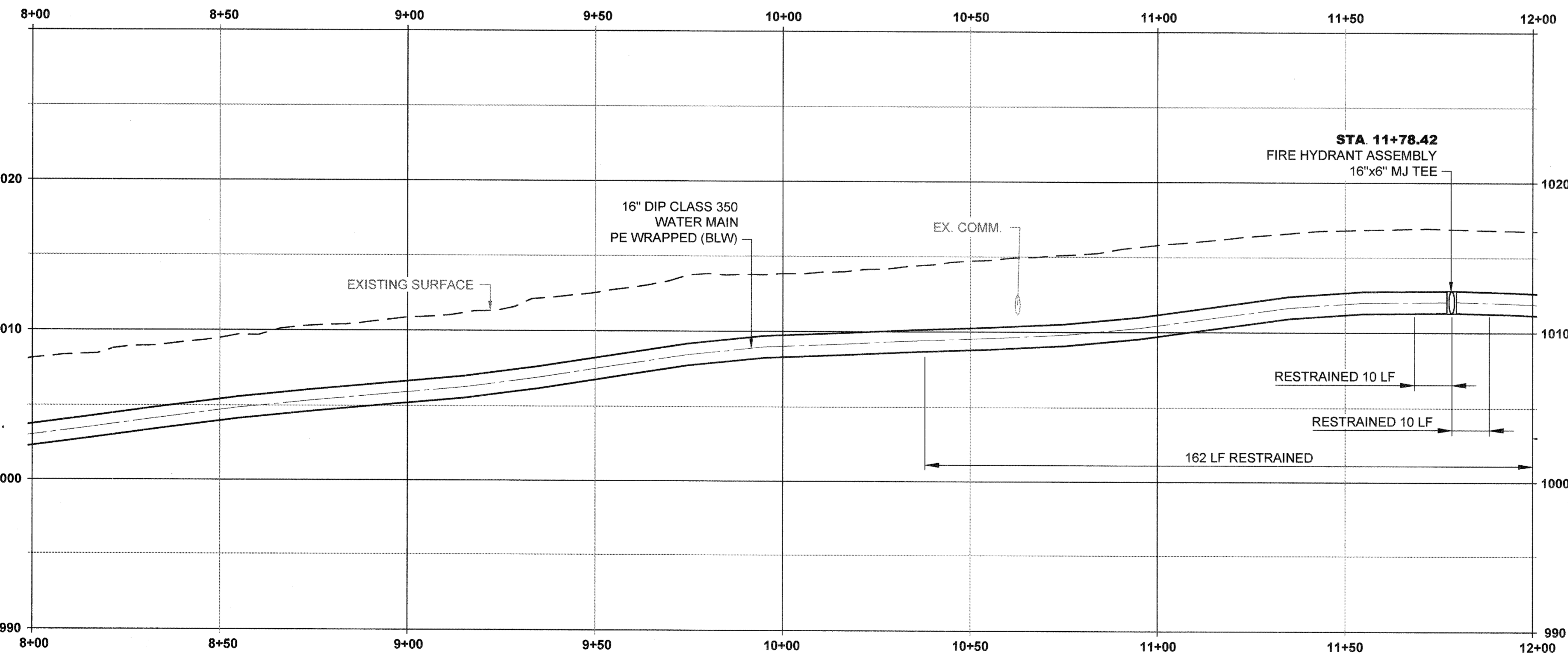
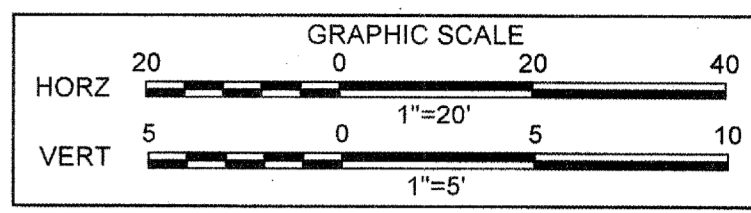
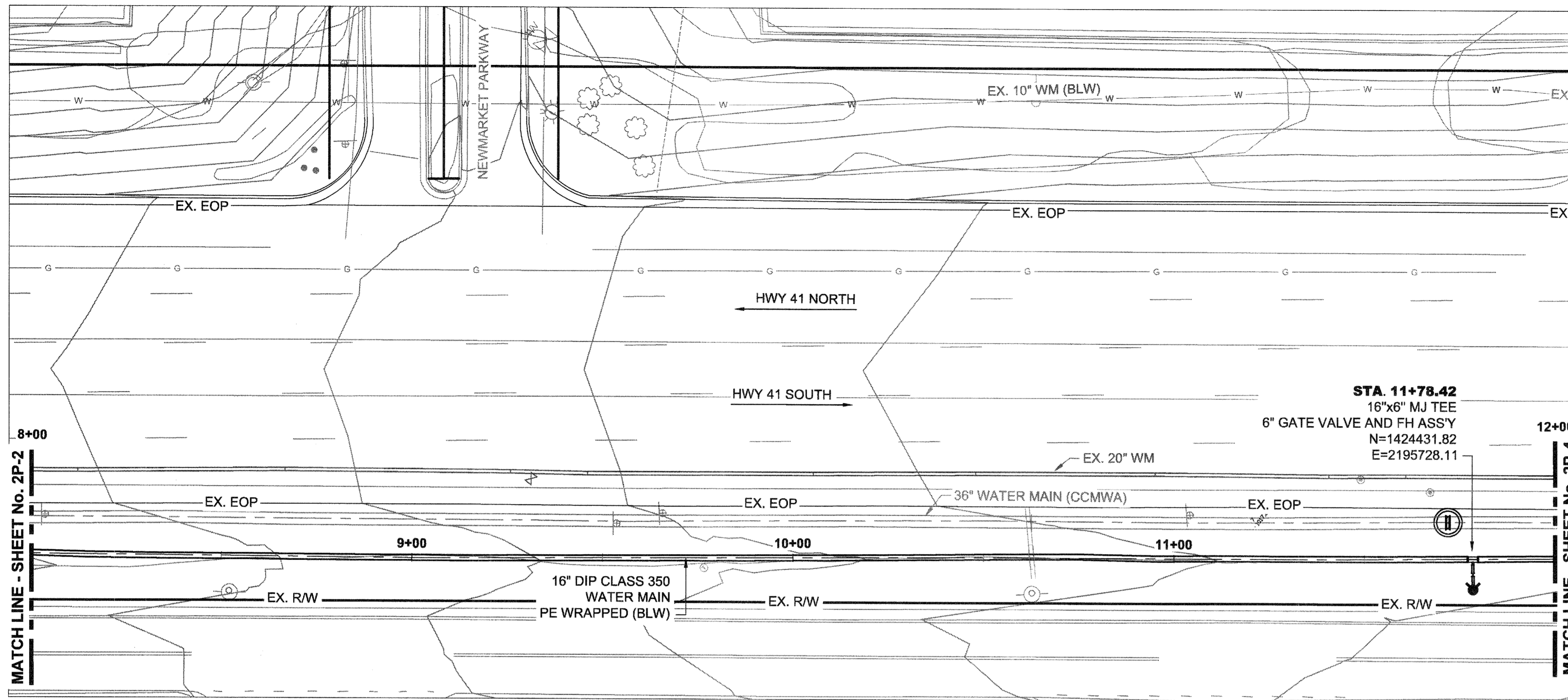
COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE 4  
 WATER MAIN

DESIGNED BY: GRP  
 DRAWN BY: JN  
 CHECKED BY: GRP  
 APPROVED BY: GRP  
 DATE: JAN. 2015  
 SCALE: AS SHOWN

SHEET No.  
**2P-2**  
 100034854



File Name: C:\PW\_WORK\ATKNAE\01\NEW\7492\DM501040\2P-1 THROUGH 2P-13 BLW.DWG\Tab:2P-2\Plotter: February 18, 2015 2:17pm



**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 800  
 Atlanta, Georgia 30328  
 P: 770-933-0280

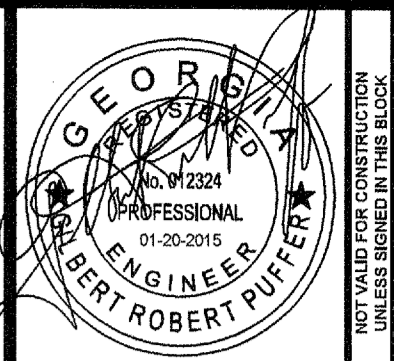
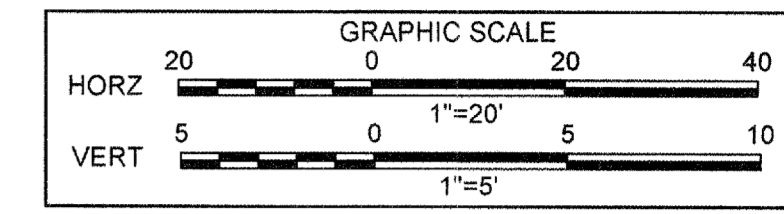
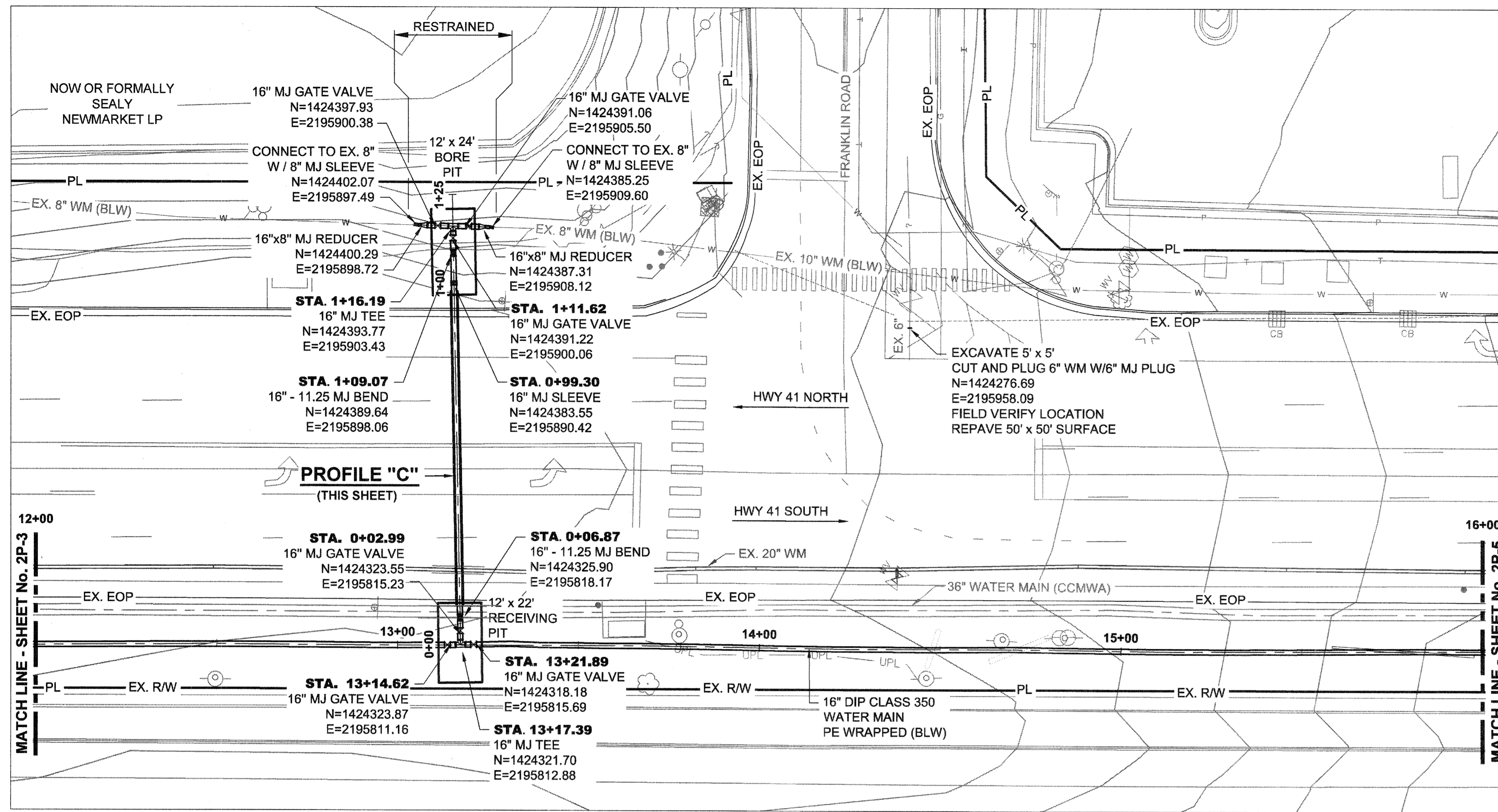


DATE	REVISION
01/20/2015	FOR BID

PROJ. No.: 100034854  
 DESIGNED BY: GRP  
 DRAWN BY: JN  
 CHECKED BY: GRP  
 APPROVED BY: GRP  
 DATE: JAN. 2015  
 SCALE: AS SHOWN

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE 4  
 WATER MAIN  
**PLAN AND PROFILE**





**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-933-0280

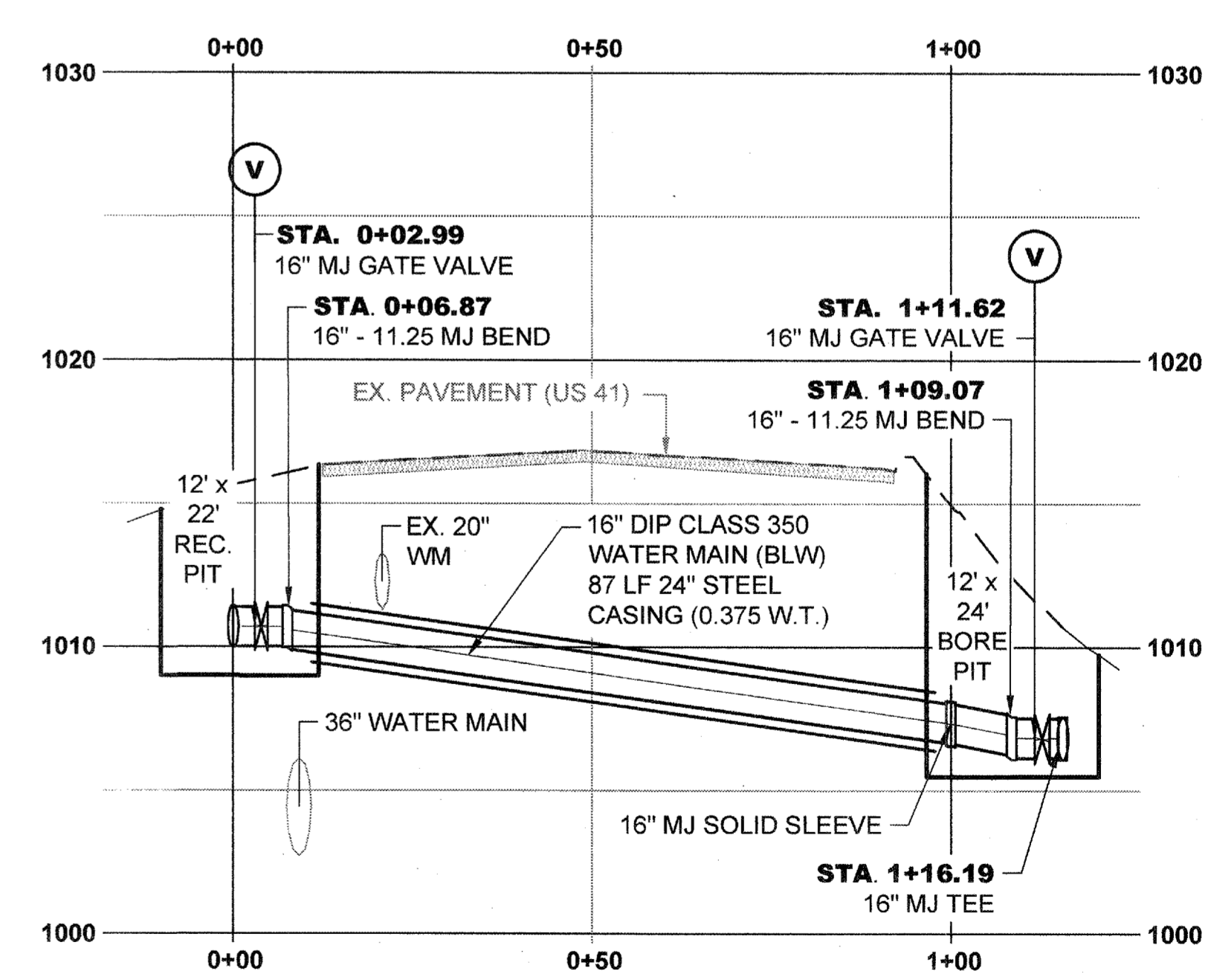
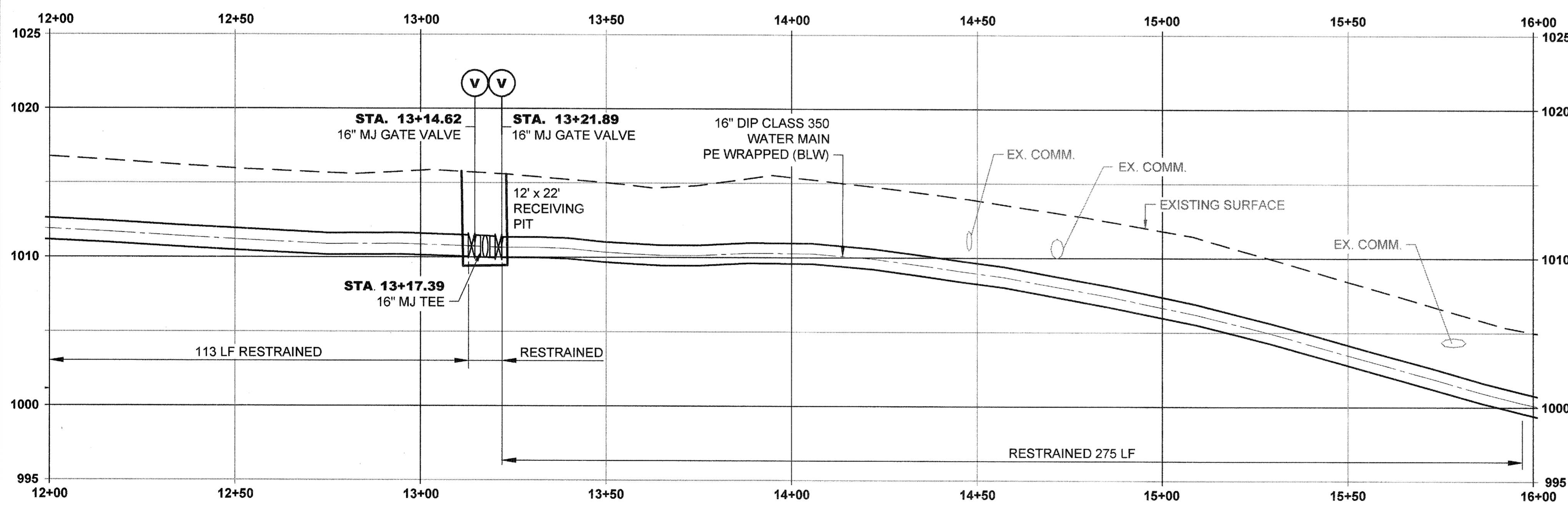


DATE	REVISION
01/20/2015	
	FOR BID

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE 4  
 WATER MAIN

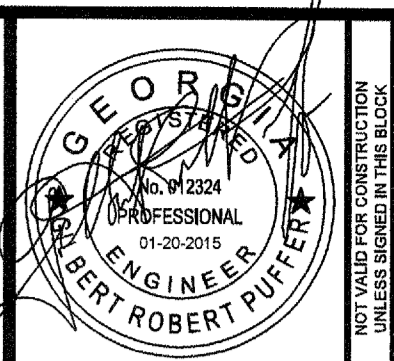
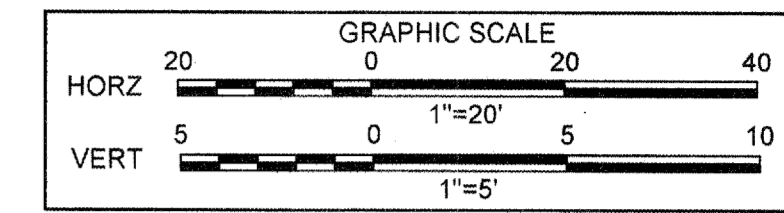
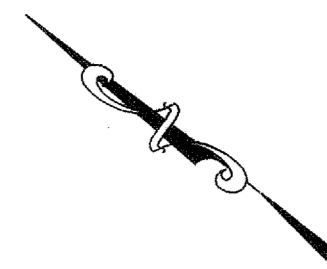
DESIGNED BY: GRP  
 DRAWN BY: JN  
 CHECKED BY: GRP  
 APPROVED BY: GRP  
 DATE: JAN, 2015  
 SCALE: AS SHOWN

SHEET No.  
**2P-4**  
 100034854



**PROFILE "C"**

File Name: C:\PW\_WORK\ATKNAFLO1\NEW\7492\DWG\2P-4\2P-4.plotted February 18, 2015 2:20pm



**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-533-0280

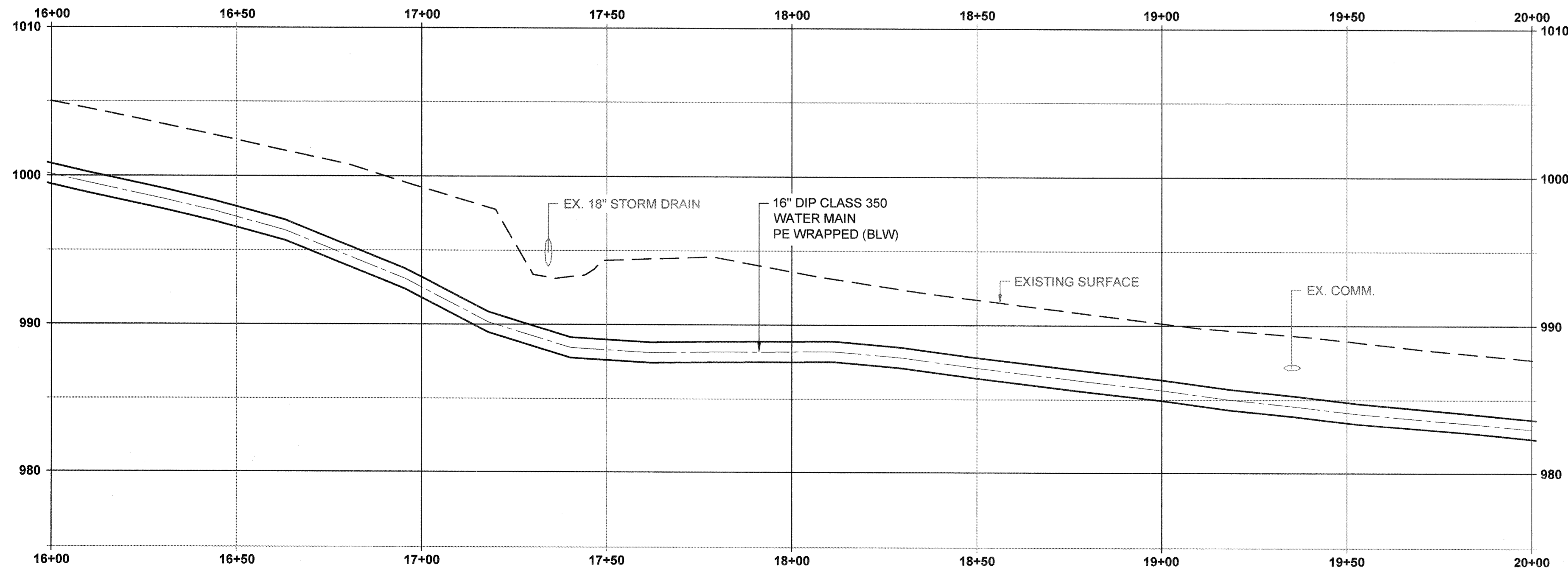
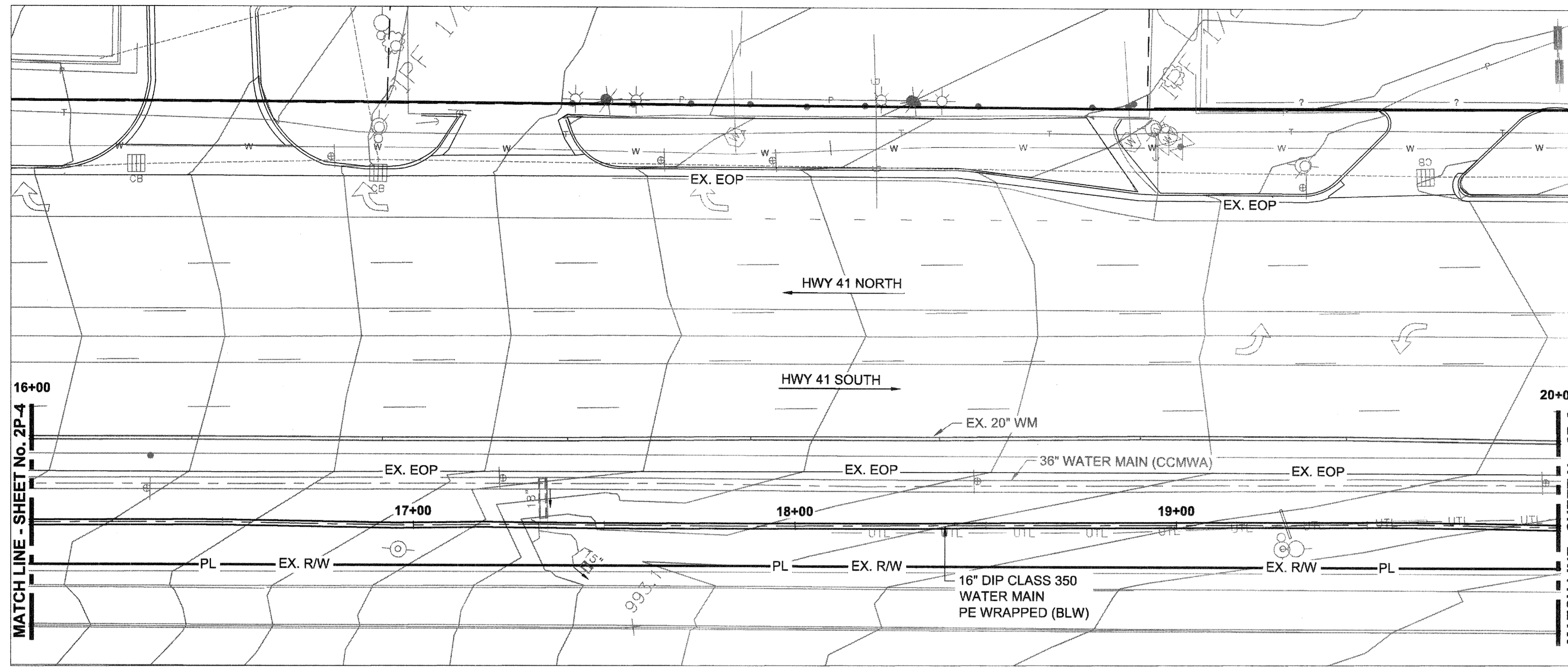


PROJ. No.:	DATE	REVISION
100034854	01/20/2015	
DESIGNED BY: GRP		
DRAWN BY: JN		
CHECKED BY: GRP		
APPROVED BY: GRP		
DATE: JAN. 2015		
SCALE: AS SHOWN		

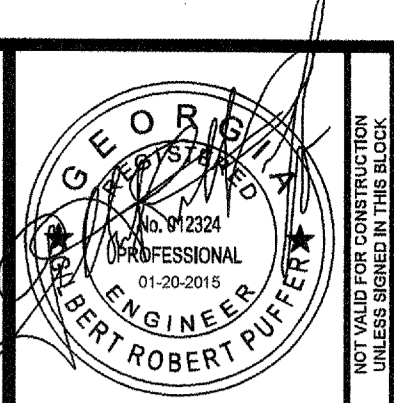
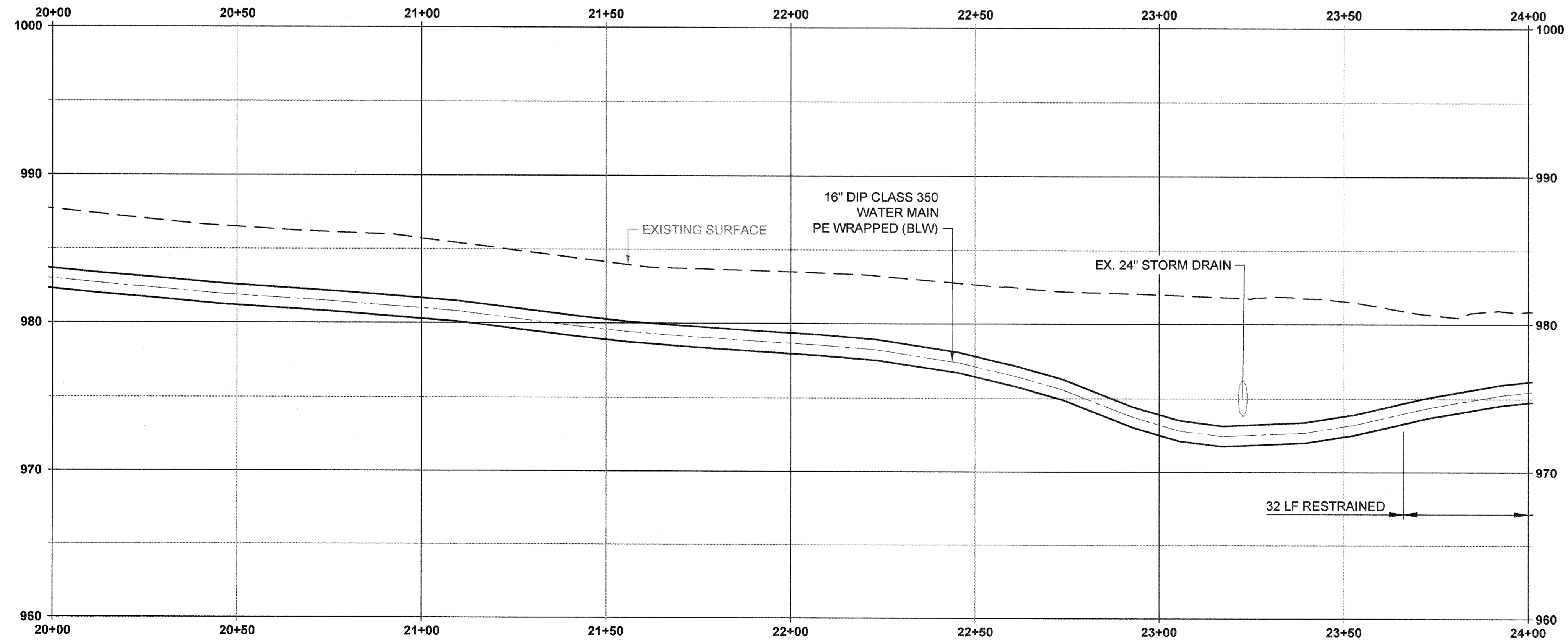
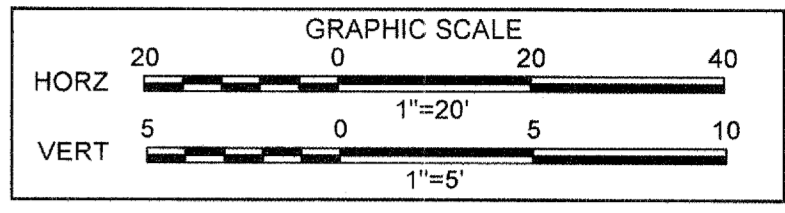
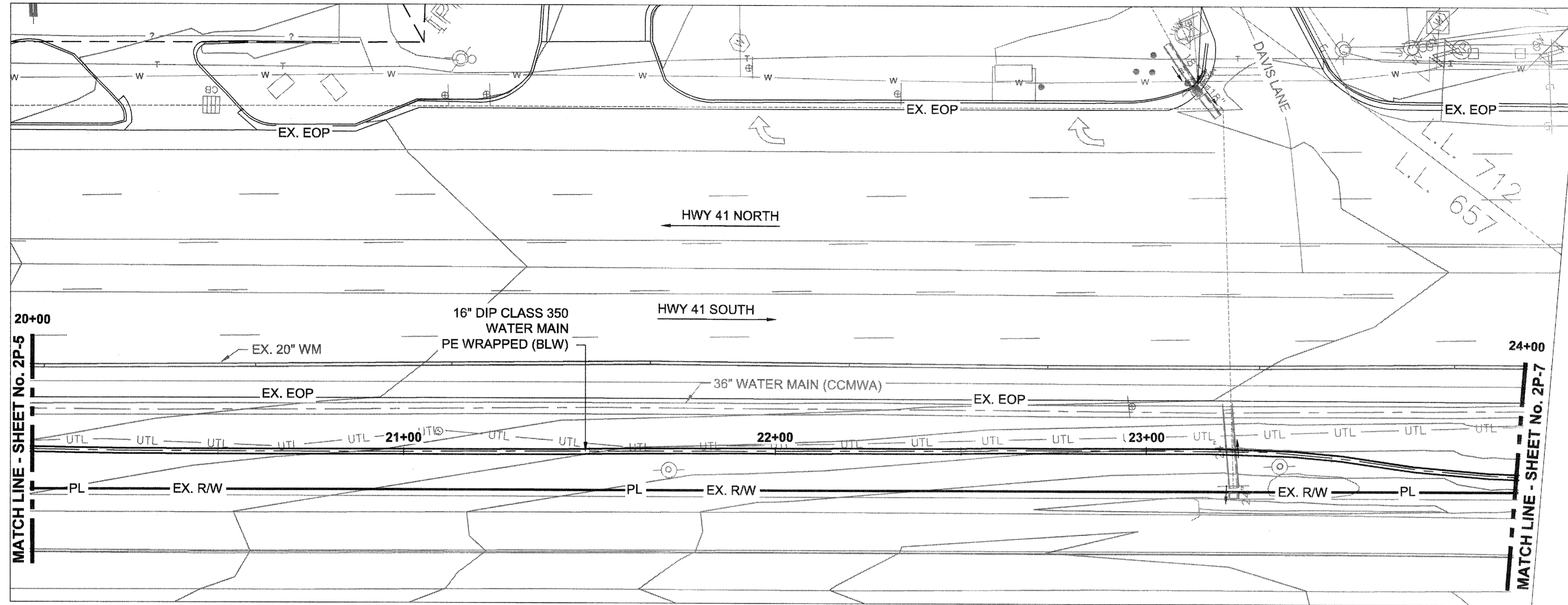
COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE 4  
 WATER MAIN

**PLAN AND PROFILE**

SHEET No.  
**2P-5**  
 100034854



File Name: C:\PW\_WORK\ATKNAFLO1\NEW\7492\DWG\41\2P-5\Plotted: February 18, 2015 2:22pm



**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-833-0280

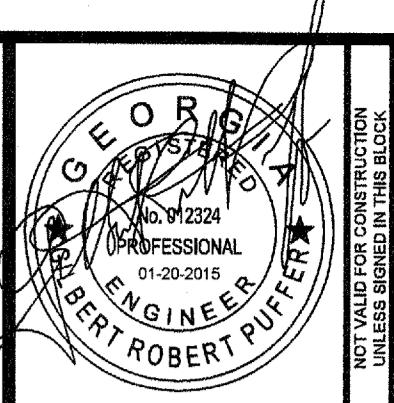


DATE	REVISION
01/20/2015	FOR BID

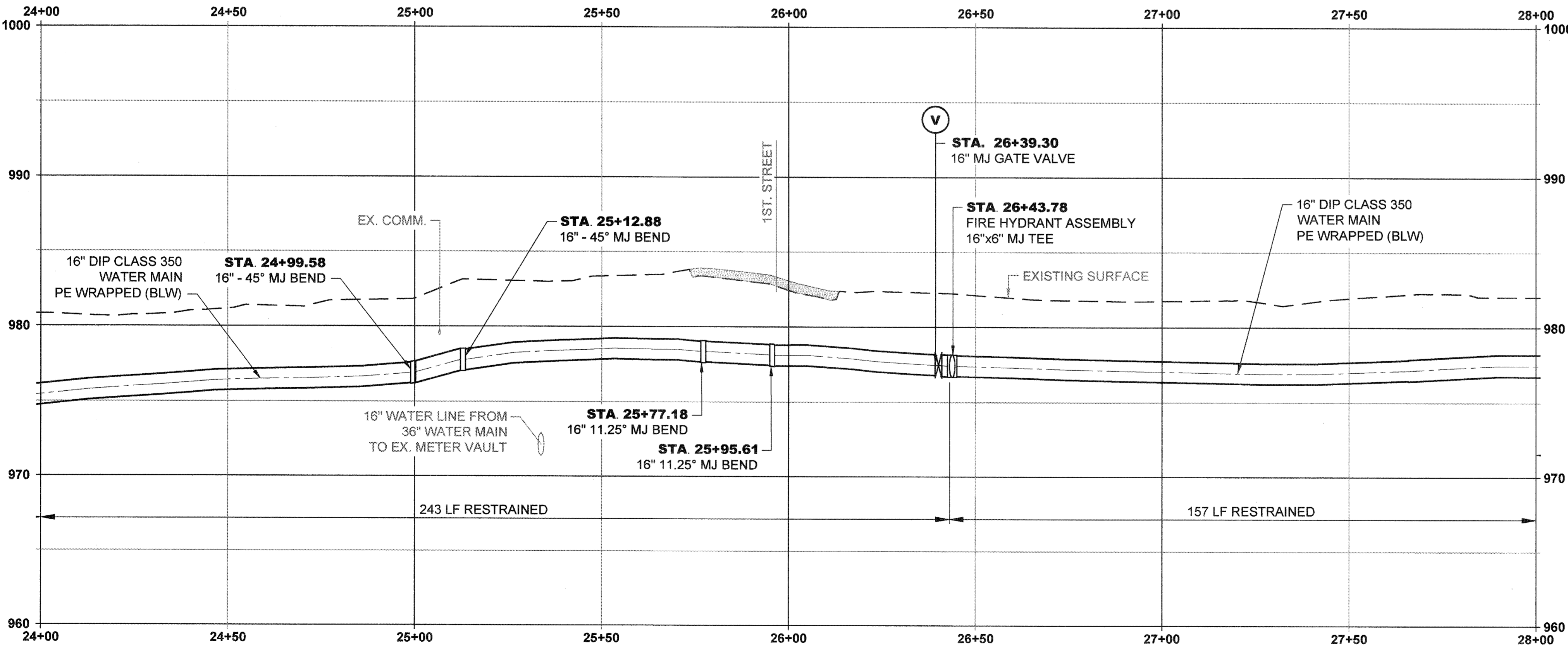
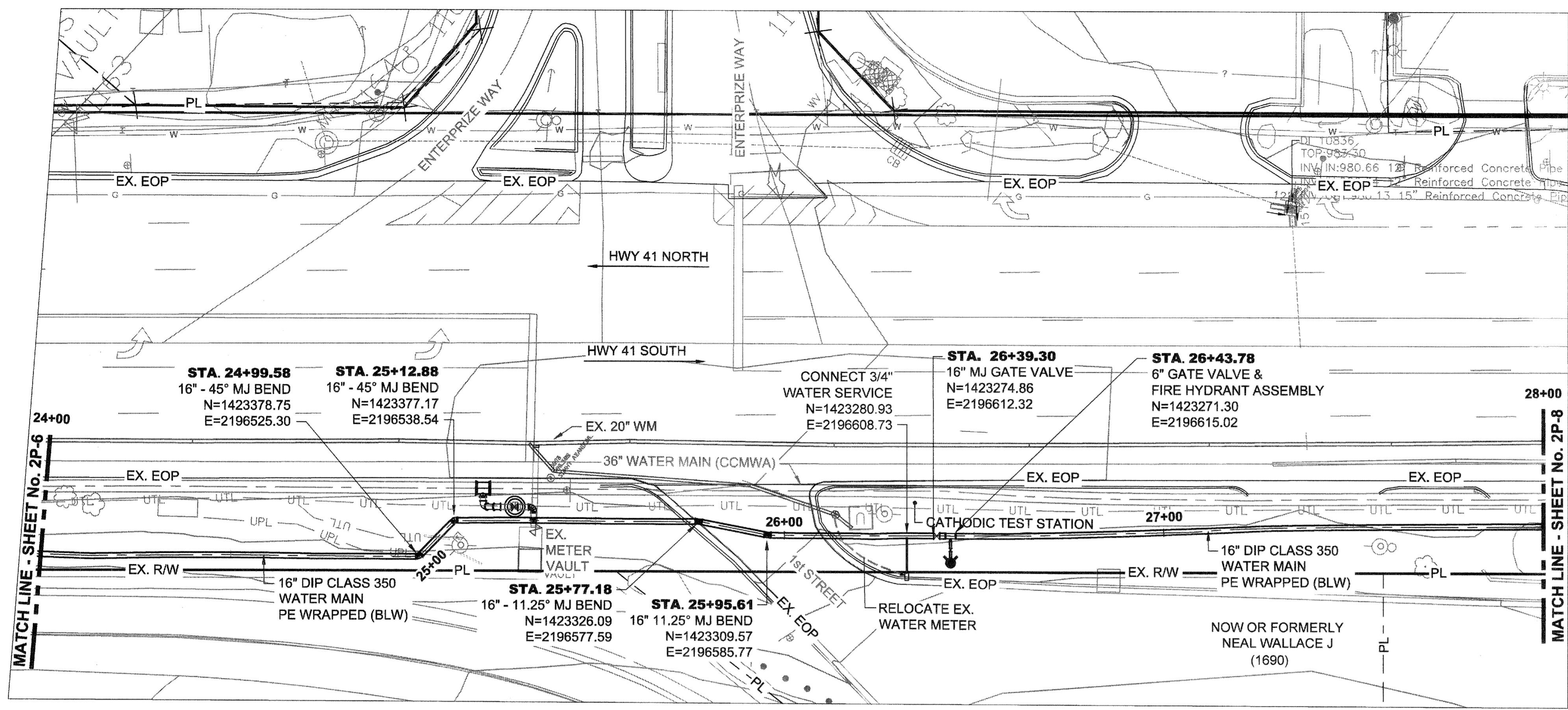
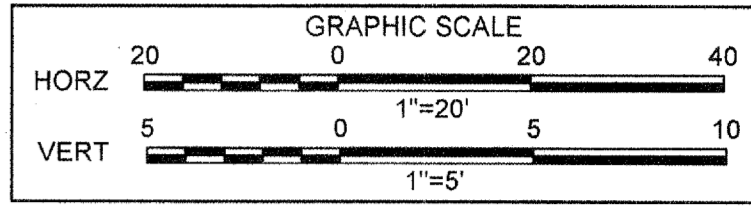
PROJ. No.: 100034854	DESIGNED BY: GRP	CHECKED BY: GRP	APPROVED BY: GRP	DATE: JAN. 2015	SCALE: AS SHOWN
	DRAWN BY: JN				

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE 4  
 WATER MAIN  
**PLAN AND PROFILE**  
 SHEET No.  
**2P-6**  
 100034854

File Name: C:\PW\_WORK\ATKIAE\01\NEW\7492\DM501040\2P-1 THROUGH 2P-13\_BLDW\DWG\Tab:2P-6\Plotted: February 18, 2015 2:23pm



**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-833-0280

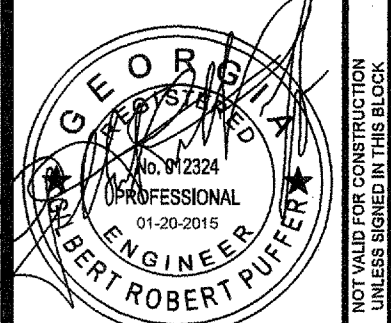
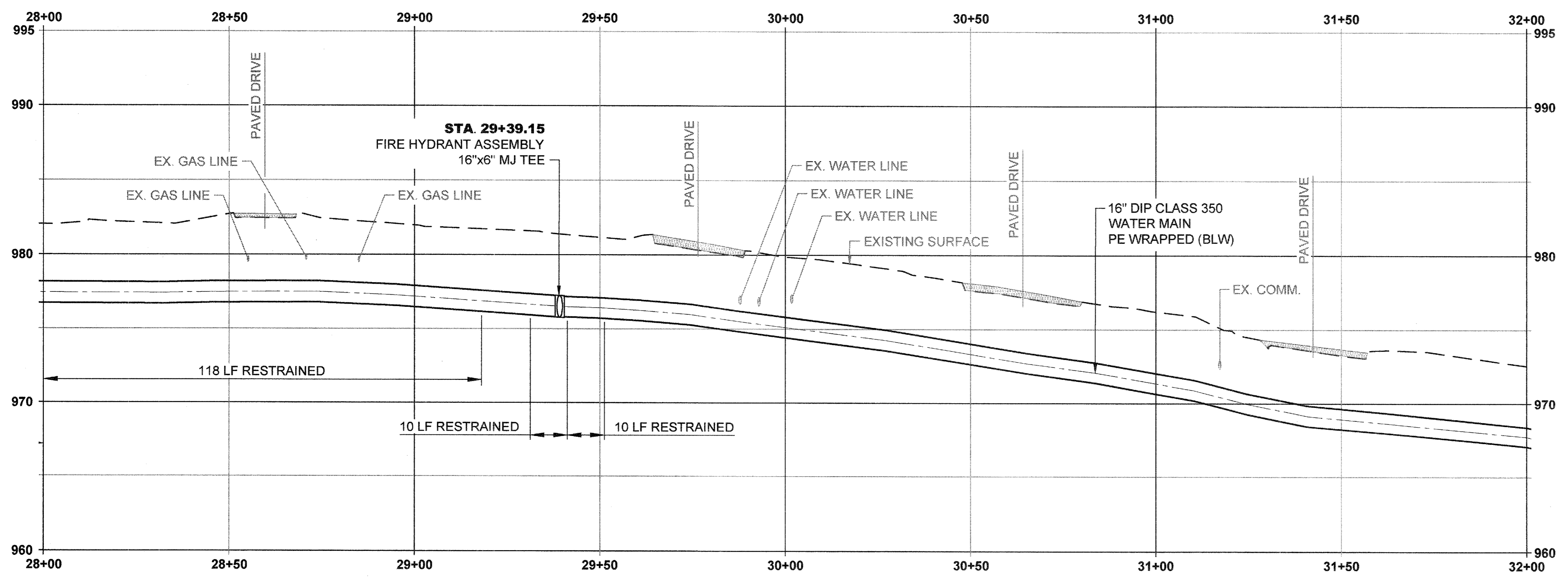
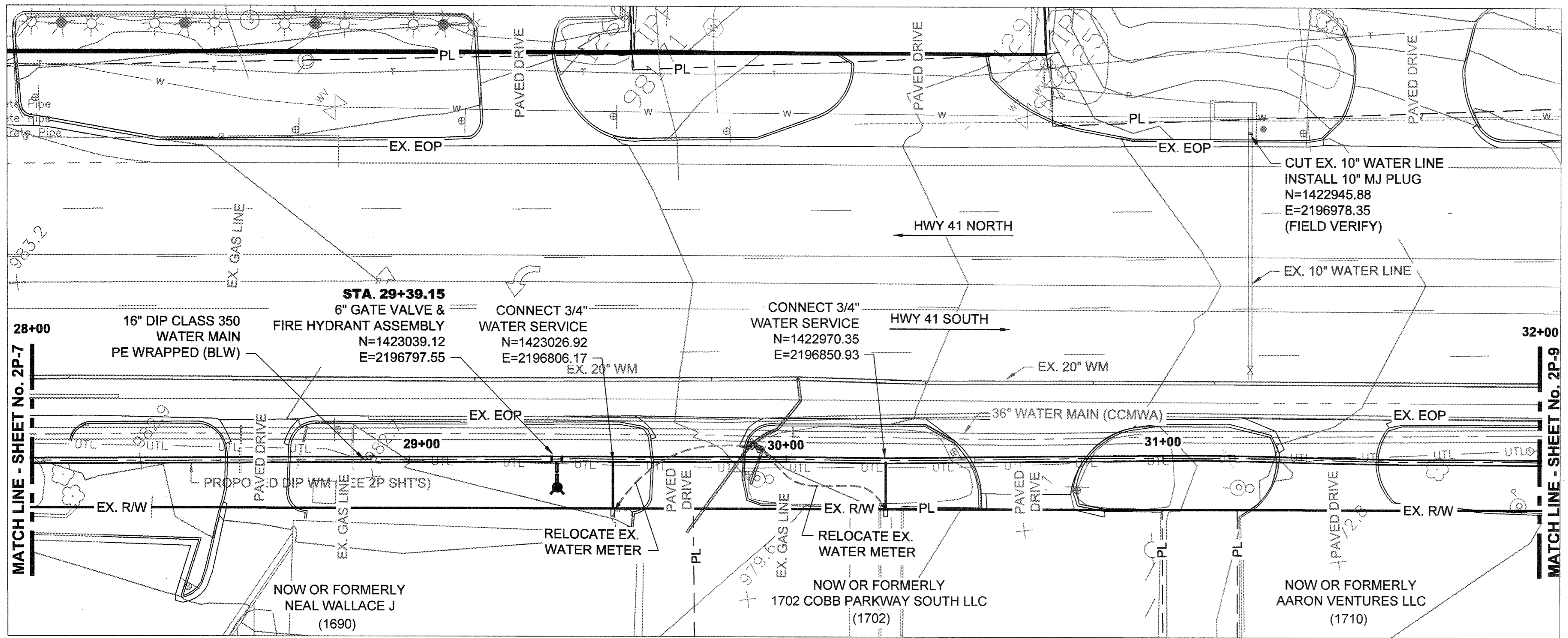
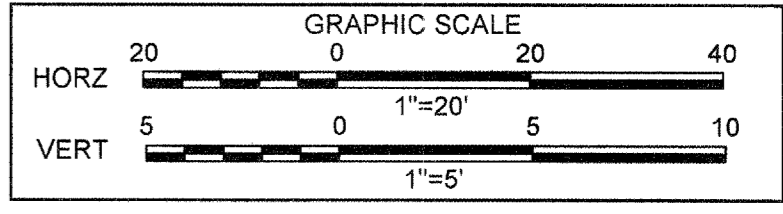
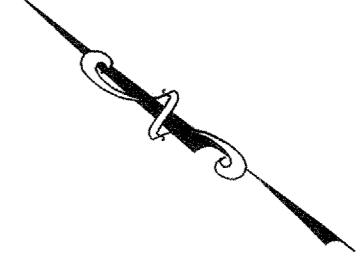


DATE	REVISION
01/20/2015	FOR BID

PROJ. No.: 100034854	DESIGNED BY: GRP	CHECKED BY: GRP	APPROVED BY: GRP	DATE: JAN. 2015	SCALE: AS SHOWN
COBB COUNTY-MARIETTA WATER AUTHORITY HIGHWAY 41 PHASE 4 WATER MAIN	DRAWN BY: JN				

SHEET No.  
**2P-7**  
 100034854

File Name: C:\PW\_WORK\ATKNAE\01\NEW\7492\DM501040\2P-1 THROUGH 2P-13\_BLDW.DWG\tblr.2P-7.plotted: February 18, 2015 2:25pm



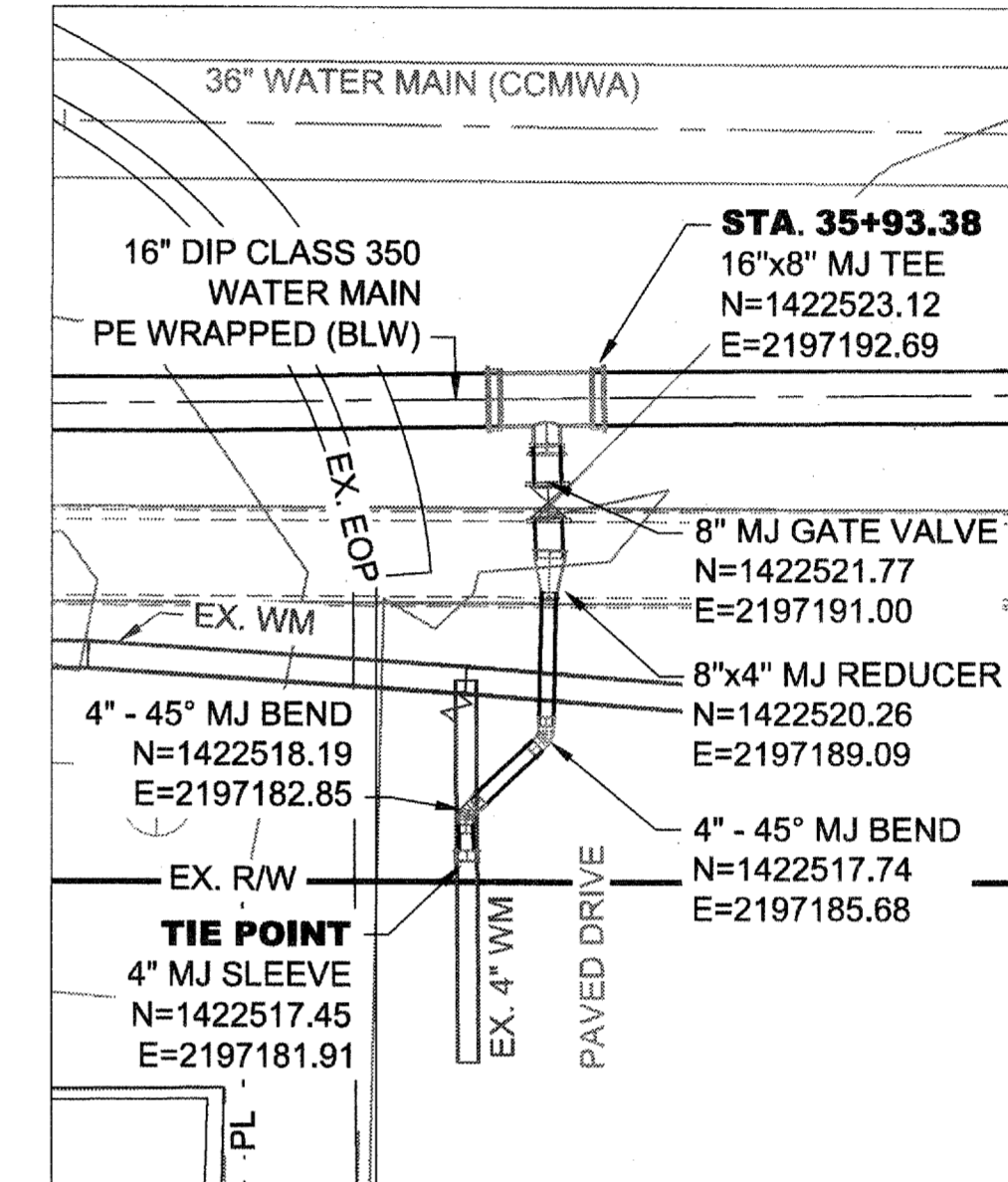
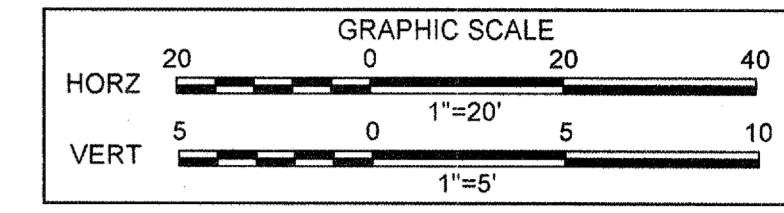
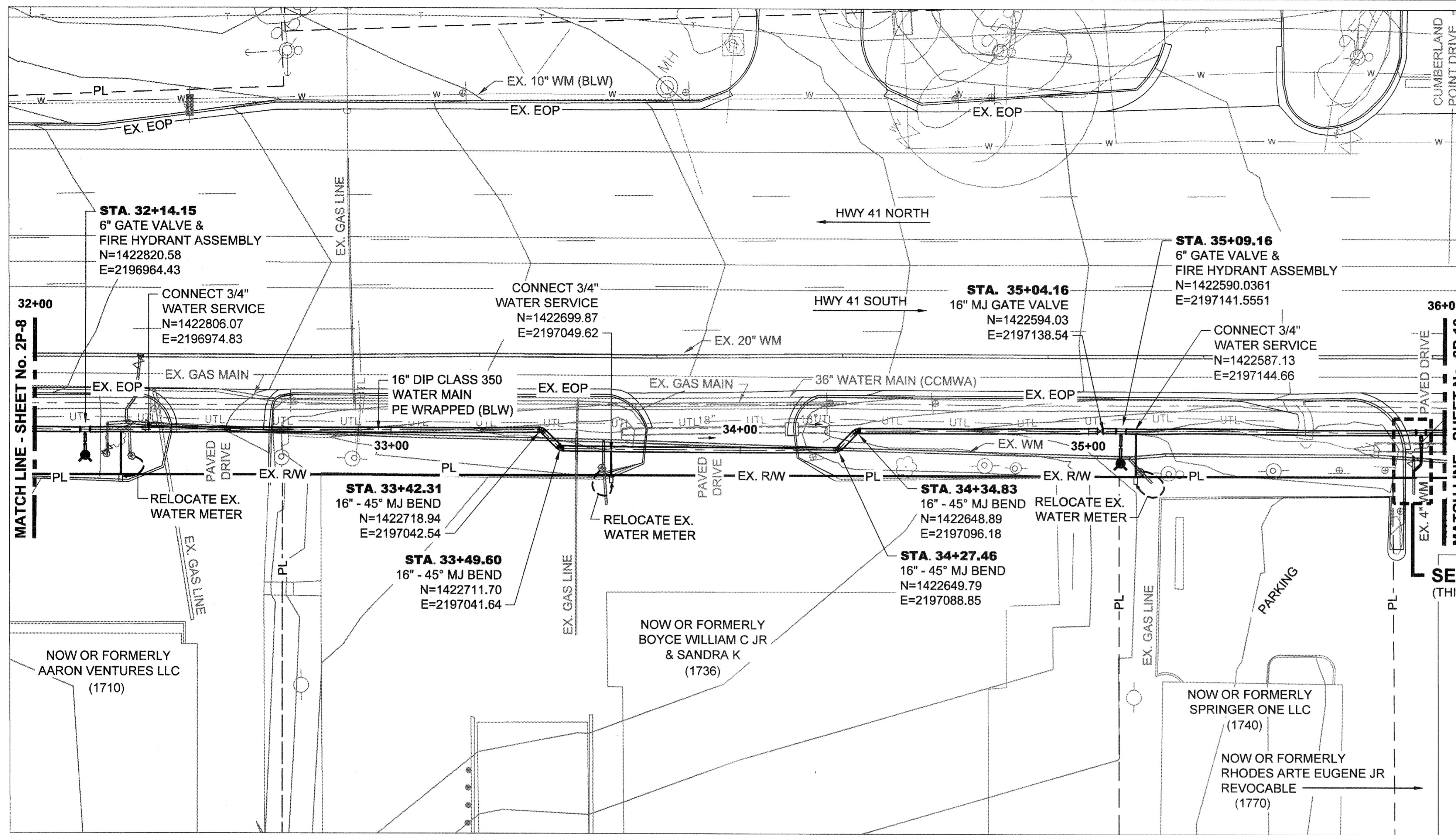
**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-933-0280



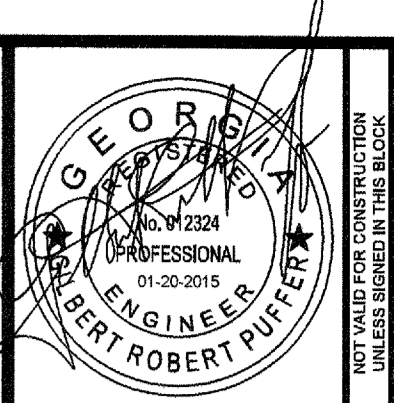
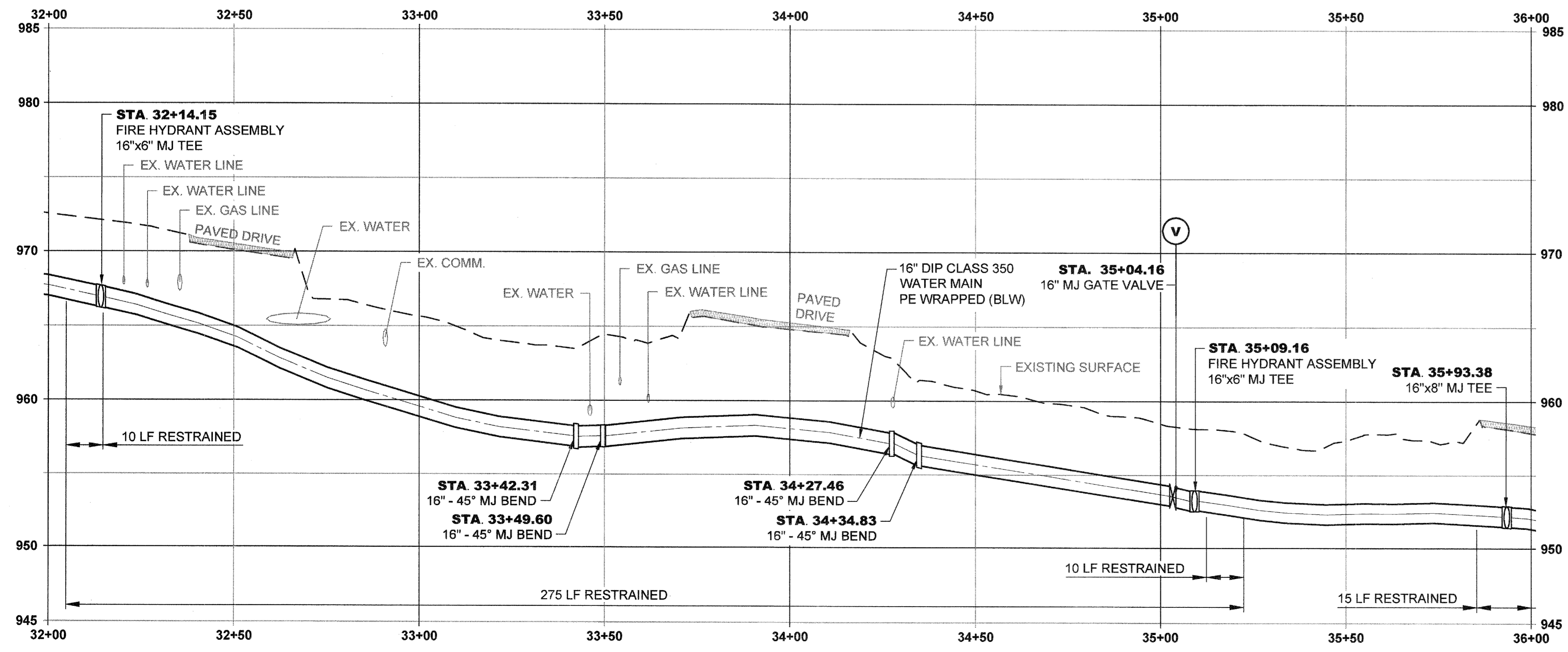
PROJ. No.:	DATE	REVISION
100034854	01/20/2015	
DESIGNED BY: GRP		FOR BID
DRAWN BY: JN		
CHECKED BY: GRP		
APPROVED BY: GRP		
DATE: JAN. 2015		
SCALE: AS SHOWN		

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE 4  
 WATER MAIN  
**PLAN AND PROFILE**

SHEET No.  
**2P-8**  
 100034854



**DETAIL No. 1**  
SCALE: NTS



**ATKINS**  
1600 RiverEdge Parkway, NW, Suite 600  
Atlanta, Georgia 30328  
P: 770-893-0280



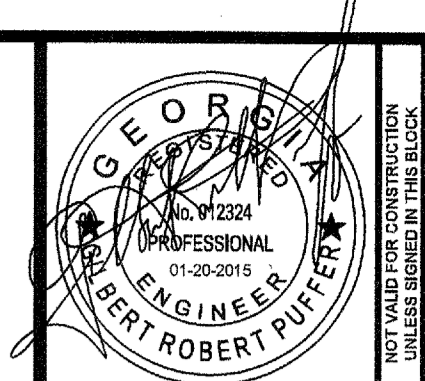
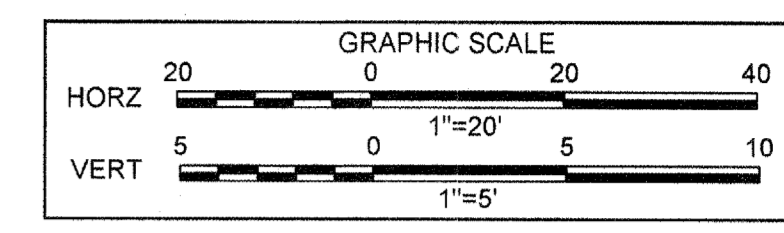
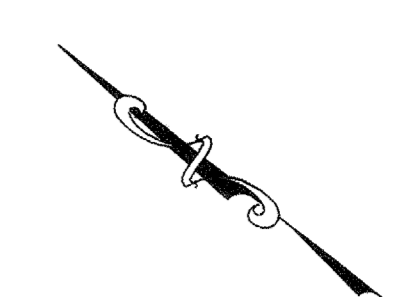
DATE	REVISION
01/20/2015	FOR BID

COBB COUNTY-MARIETTA WATER AUTHORITY  
HIGHWAY 41 PHASE 4  
WATER MAIN

DESIGNED BY: GRP  
DRAWN BY: JN  
CHECKED BY: GRP  
APPROVED BY: GRP  
DATE: JAN. 2015  
SCALE: AS SHOWN

SHEET No.  
**2P-9**  
100034854

File Name: C:\PW\_WORK\ATKNAE\01\NEW\7492\DM501040\2P-1 THROUGH 2P-13\_BLDWG\Feb. 2P-9\Plotted: February 18, 2015 2:28pm



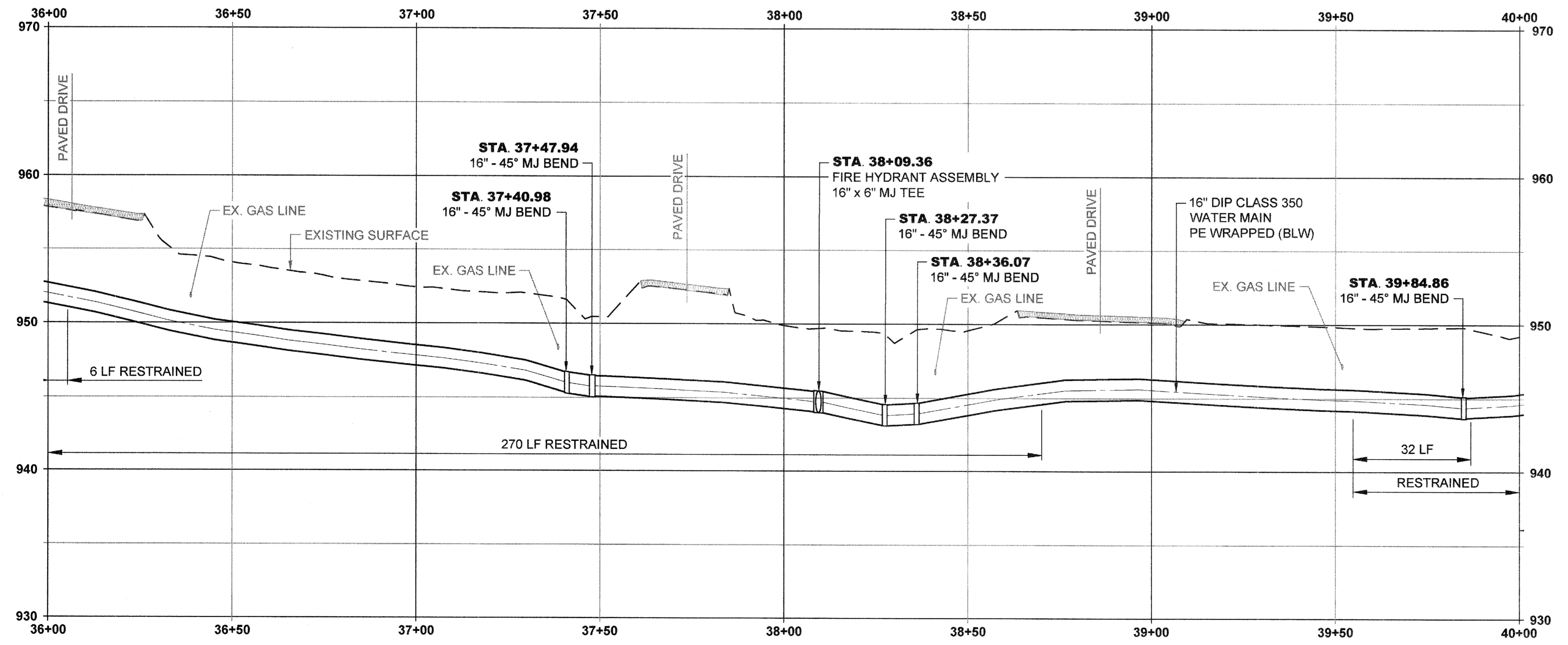
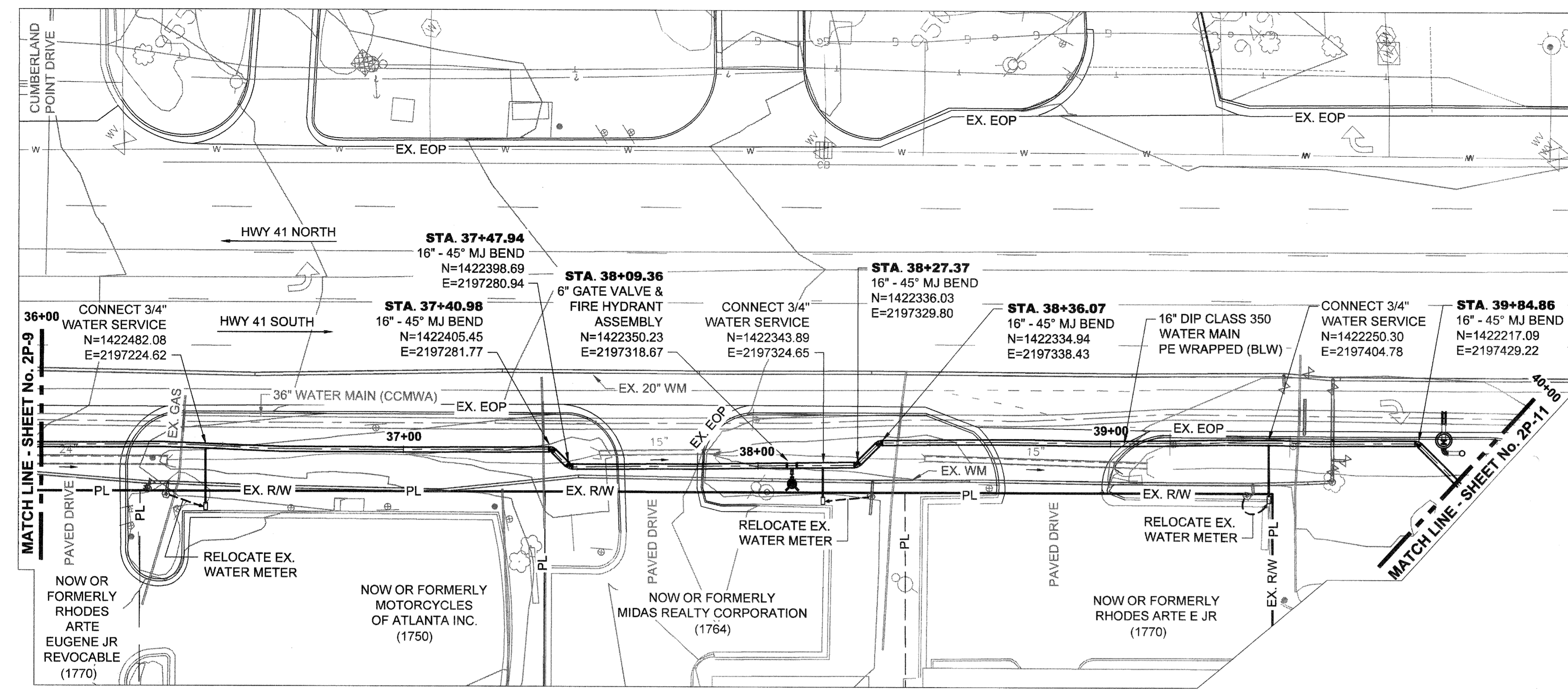
**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-833-0280



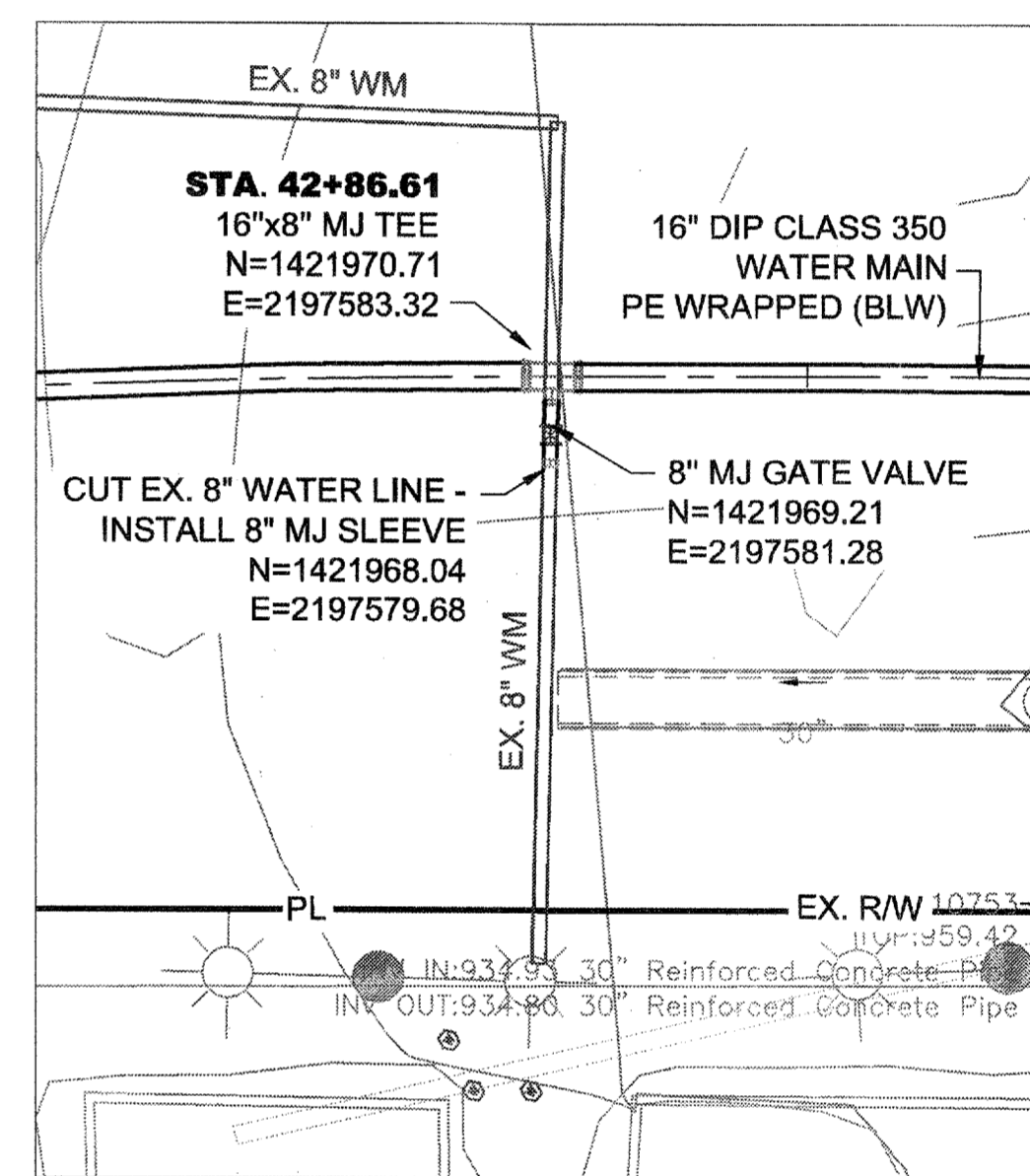
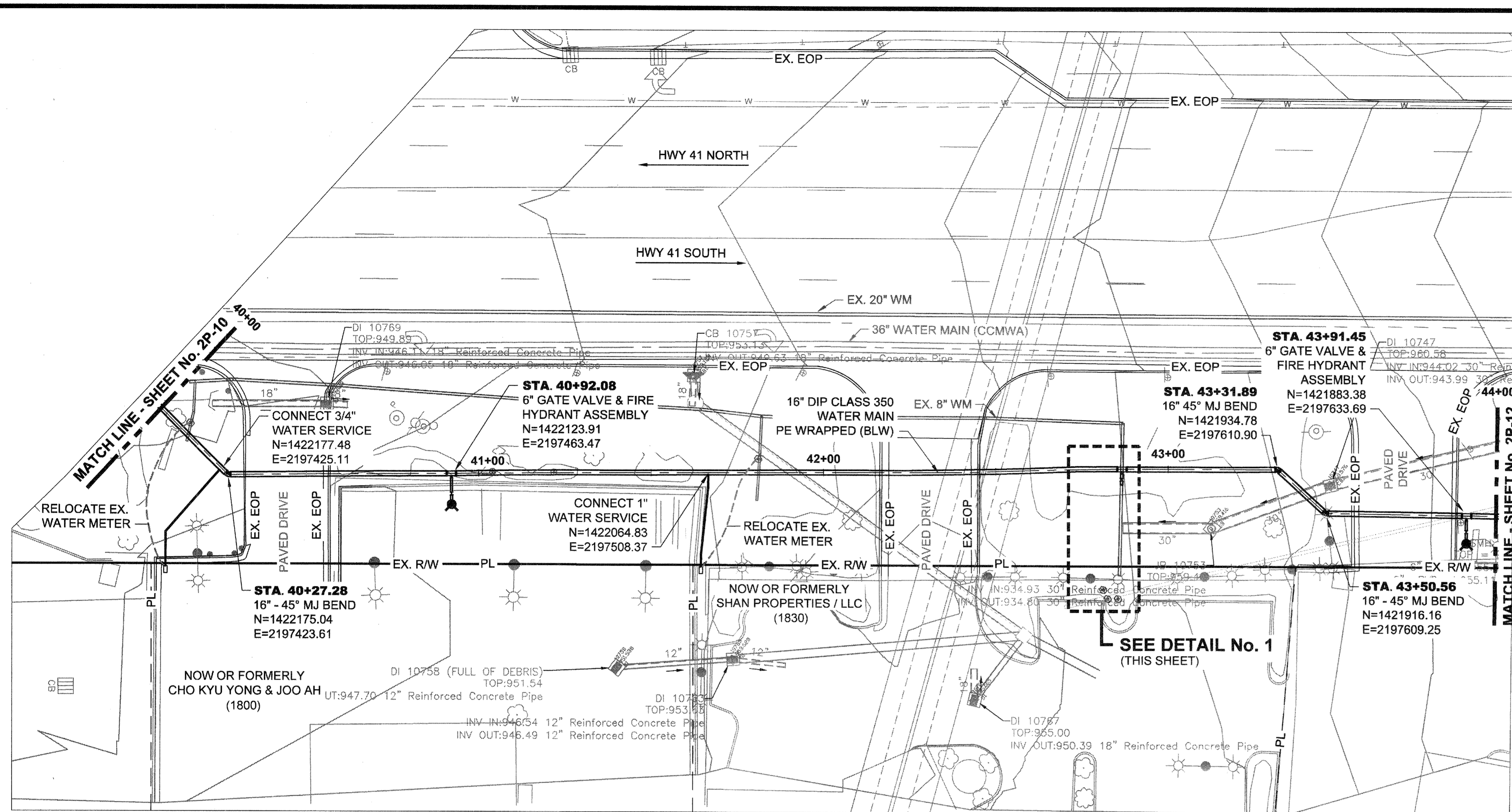
DATE	REVISION
01/20/2015	
	FOR BID

PROJ. No.: 100034854	DESIGNED BY: GRP	CHECKED BY: GRP	APPROVED BY: GRP	DATE: JAN. 2015	SCALE: AS SHOWN
	DRAWN BY: JN				

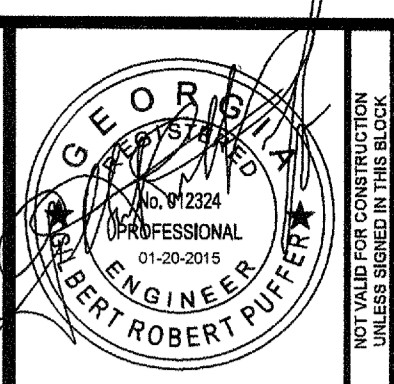
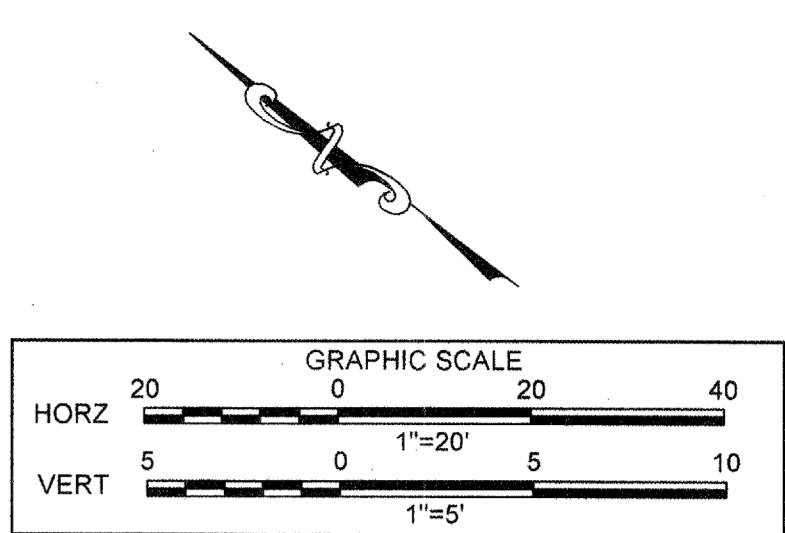
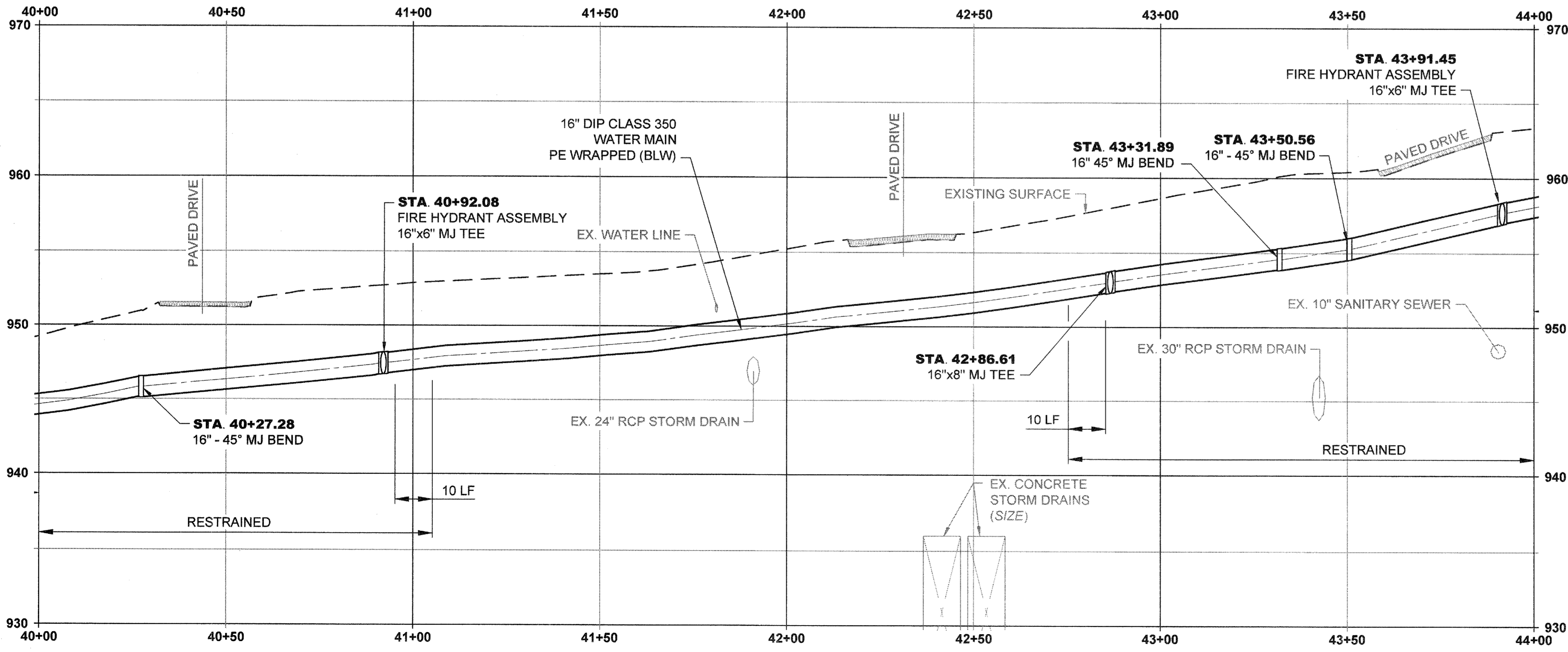
COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE 4  
 WATER MAIN  
**PLAN AND PROFILE**  
 SHEET No.  
**2P-10**  
 100034854



File Name: C:\PW\_WORK\ATKNAFLO1\NEW7492\DWG01040\2P-1 THROUGH 2P-13 BLWDWG1Tab: 2P-10 Plotted: February 23, 2015 7:30am



**DETAIL No. 1**  
SCALE: NTS



**ATKINS**  
1600 RiverEdge Parkway, NW, Suite 600  
Atlanta, Georgia 30328  
P: 770-933-0280



DATE	REVISION	FOR BID
01/20/2015		

PROJ. No.: 100034854	DESIGNED BY: GRP	CHECKED BY: GRP	APPROVED BY: GRP	DATE: JAN. 2015	SCALE: AS SHOWN
	DRAWN BY: JN				

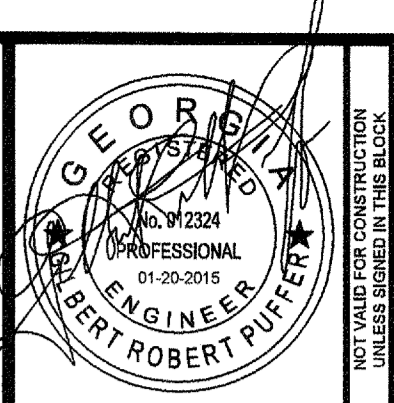
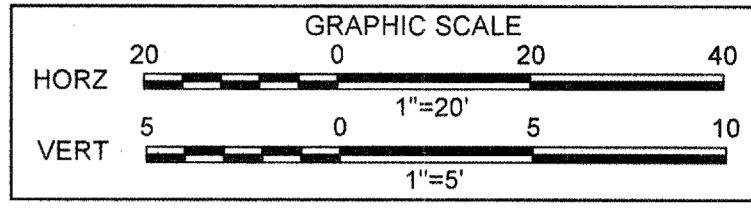
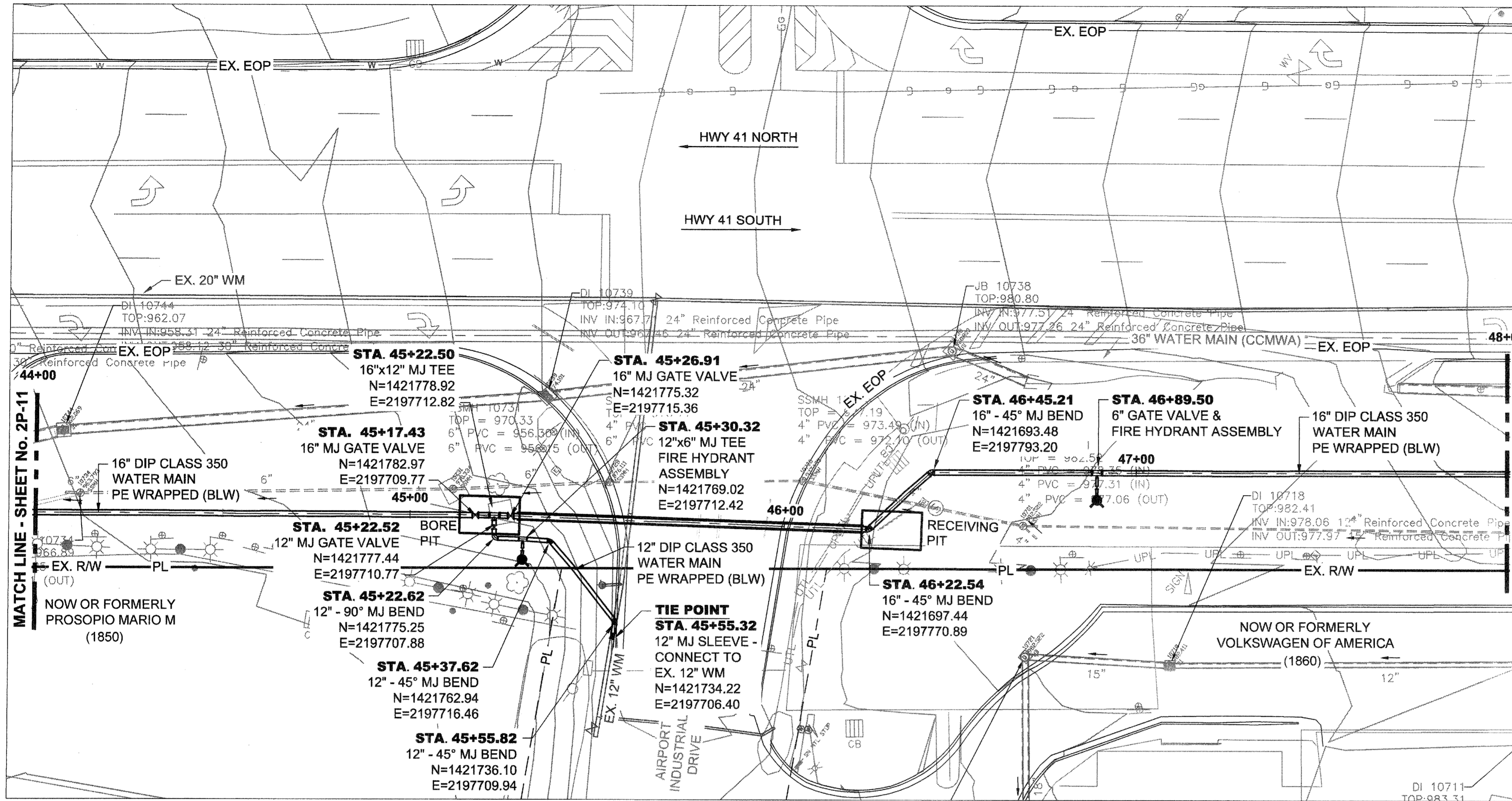
COBB COUNTY-MARIETTA WATER AUTHORITY  
HIGHWAY 41 PHASE 4  
WATER MAIN

**PLAN AND PROFILE**

SHEET No.  
**2P-11**  
100034854

File Name: C:\P\_WORK\ATKNAE\01\NEW\7492\DM501040\2P-11\Plot.dwg; 2P-11.dwg; 2P-11.dwg; February 23, 2015 7:13am





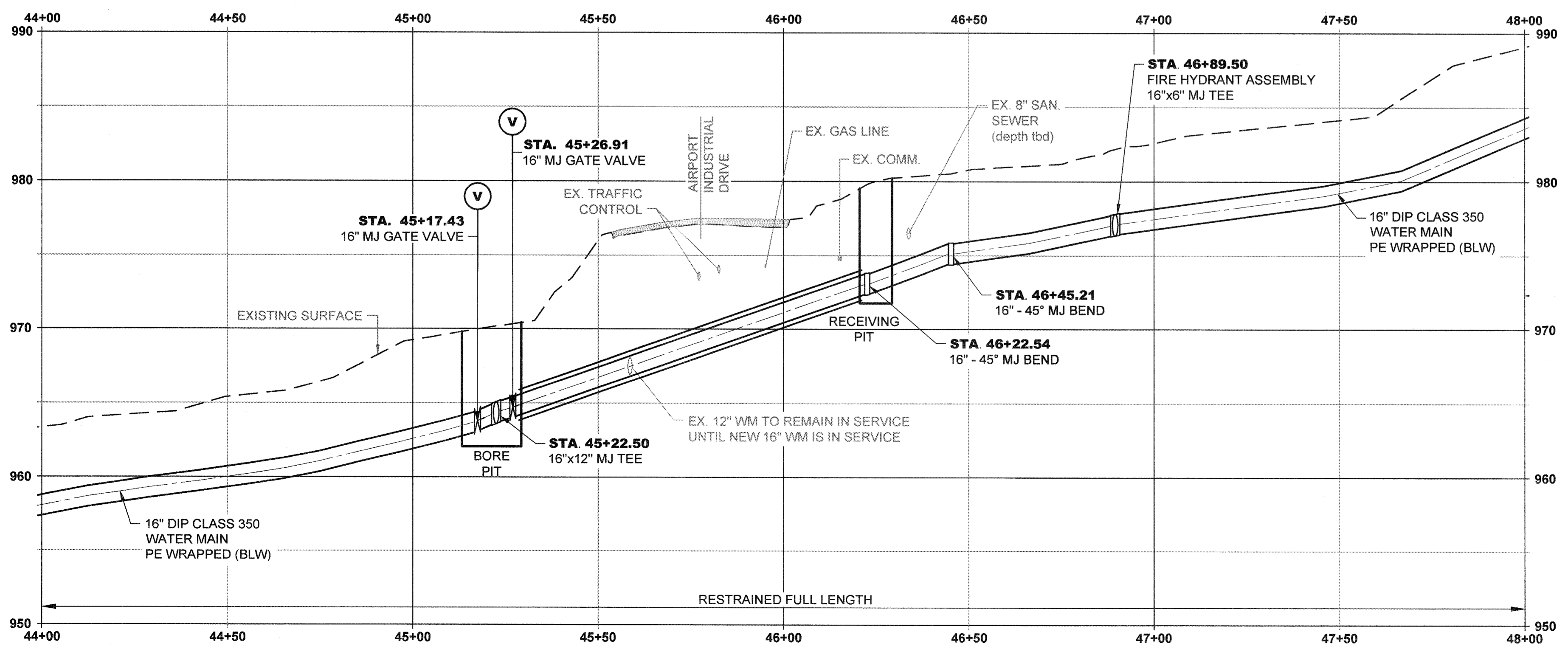
**ATKINS**  
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 Atlanta, Georgia 30328  
 P. 770-833-0280



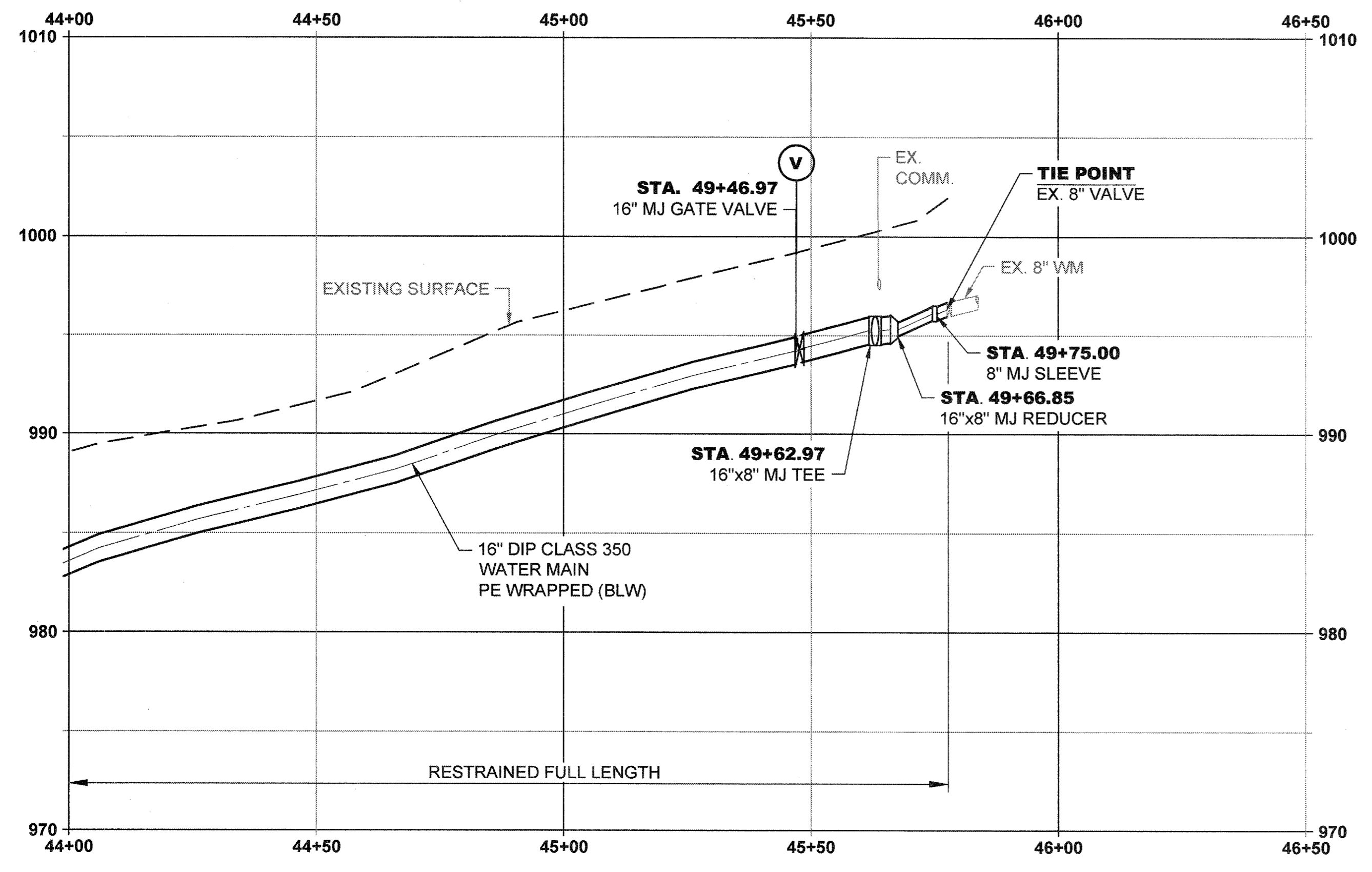
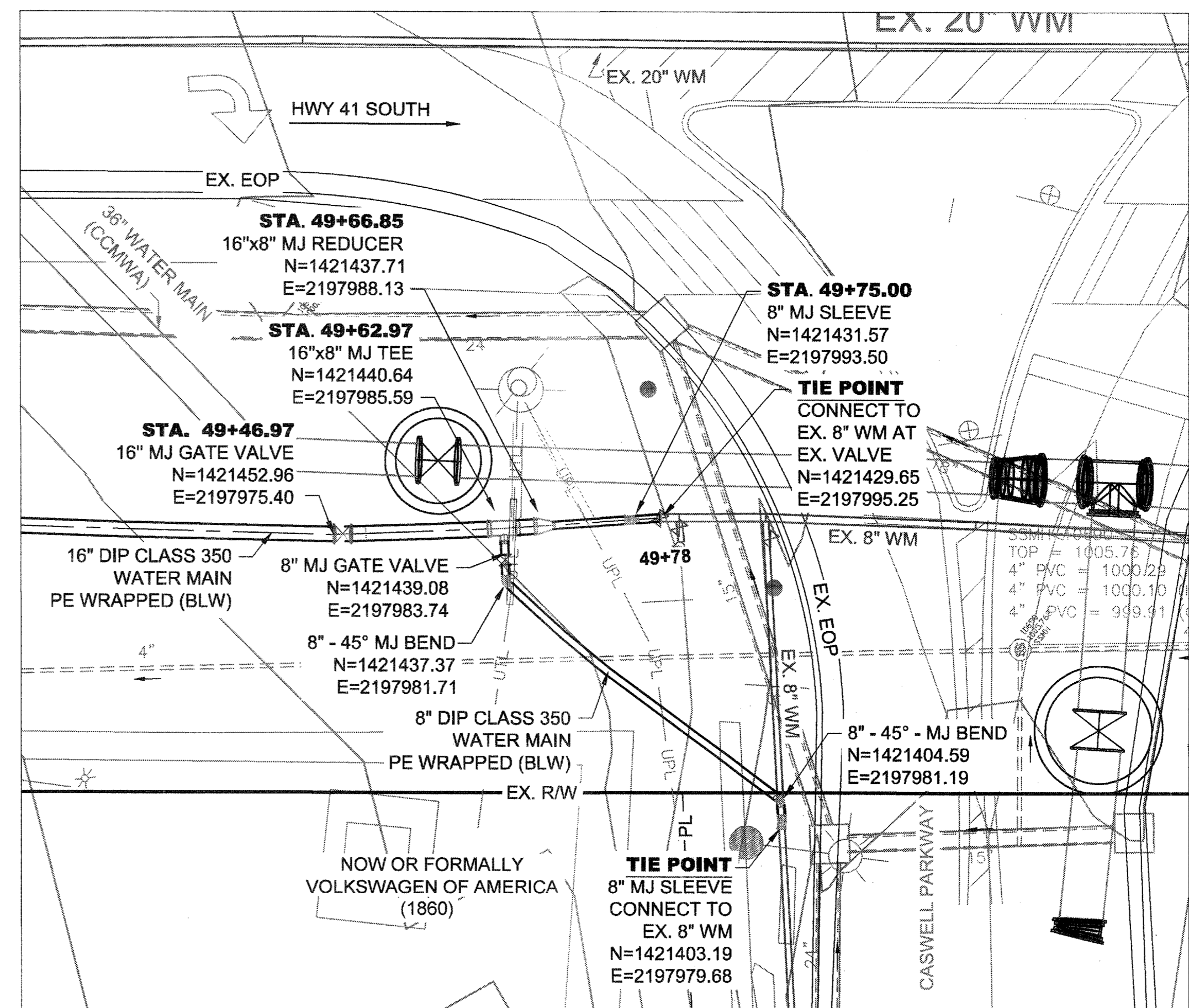
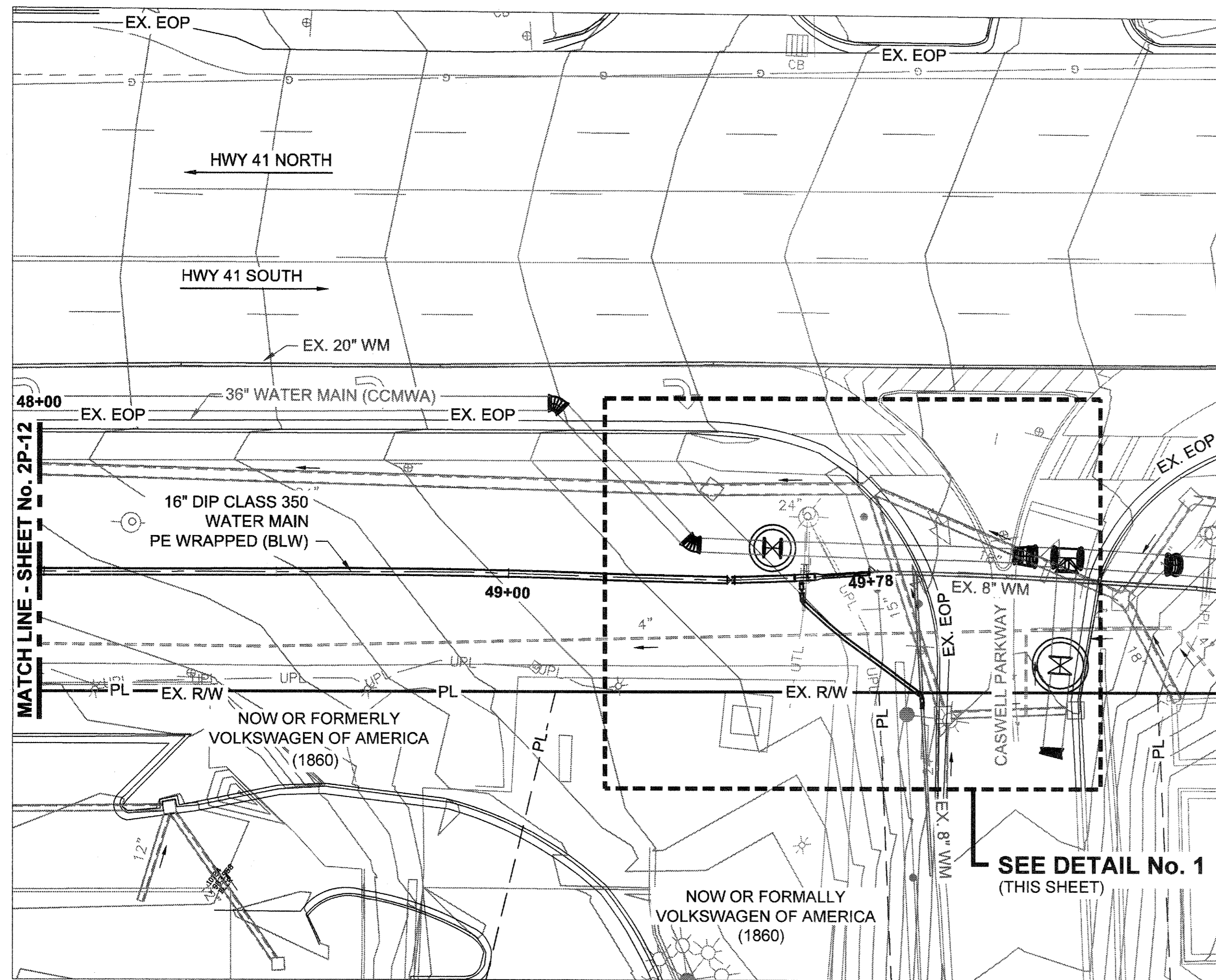
DATE	REVISION
01/20/2015	
	FOR BID

PROJ. No.: 100034854	DESIGNED BY: GRP	CHECKED BY: GRP	APPROVED BY: GRP	DATE: JAN. 2015	SCALE: AS SHOWN
COBB COUNTY-MARIETTA WATER AUTHORITY HIGHWAY 41 PHASE 4 WATER MAIN	DRAWN BY: JN				

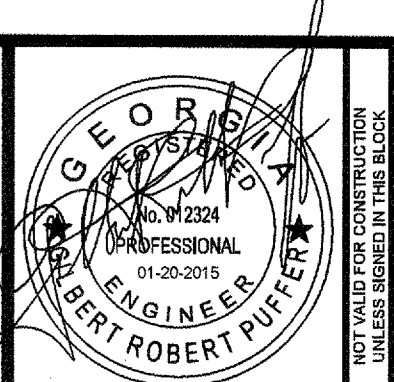
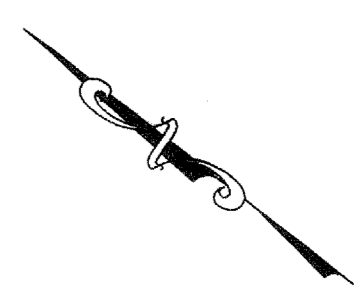
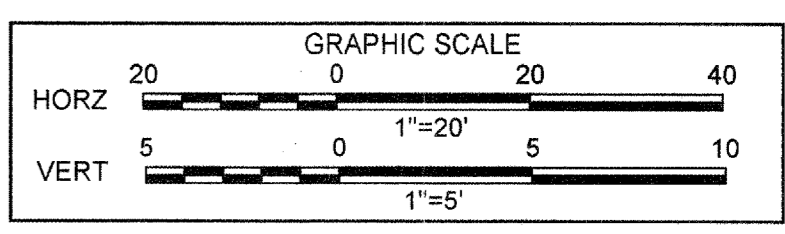
SHEET No.  
**2P-12**  
 100034854



File Name: C:\PW\_WORK\ATKNAE\01\NEW\7492\DWG\Tab:2P-12\Plotter: February 23, 2015 7:16am



**DETAIL No. 1**  
SCALE: NTS



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DATE	REVISION	FOR BID
01/20/2015		

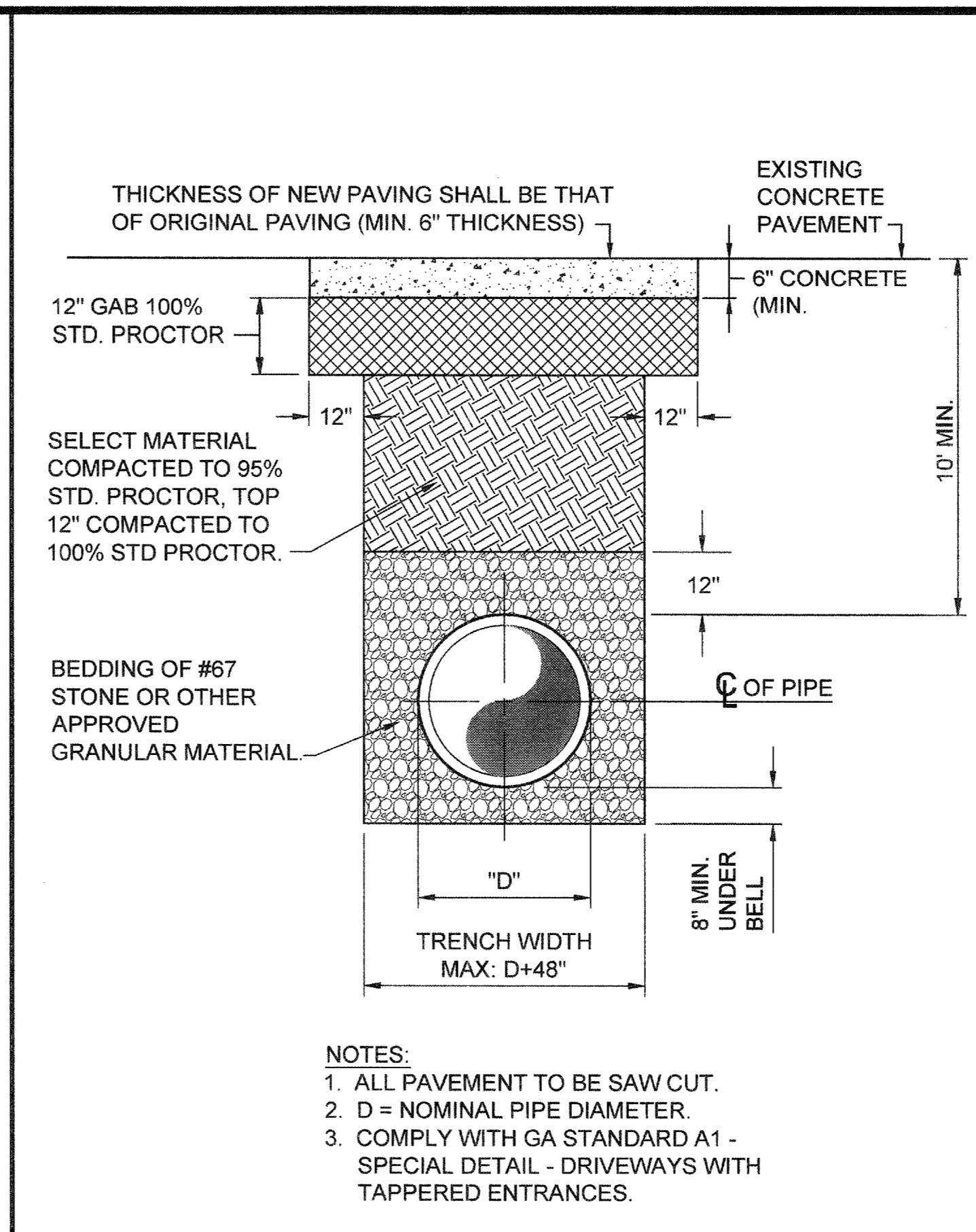
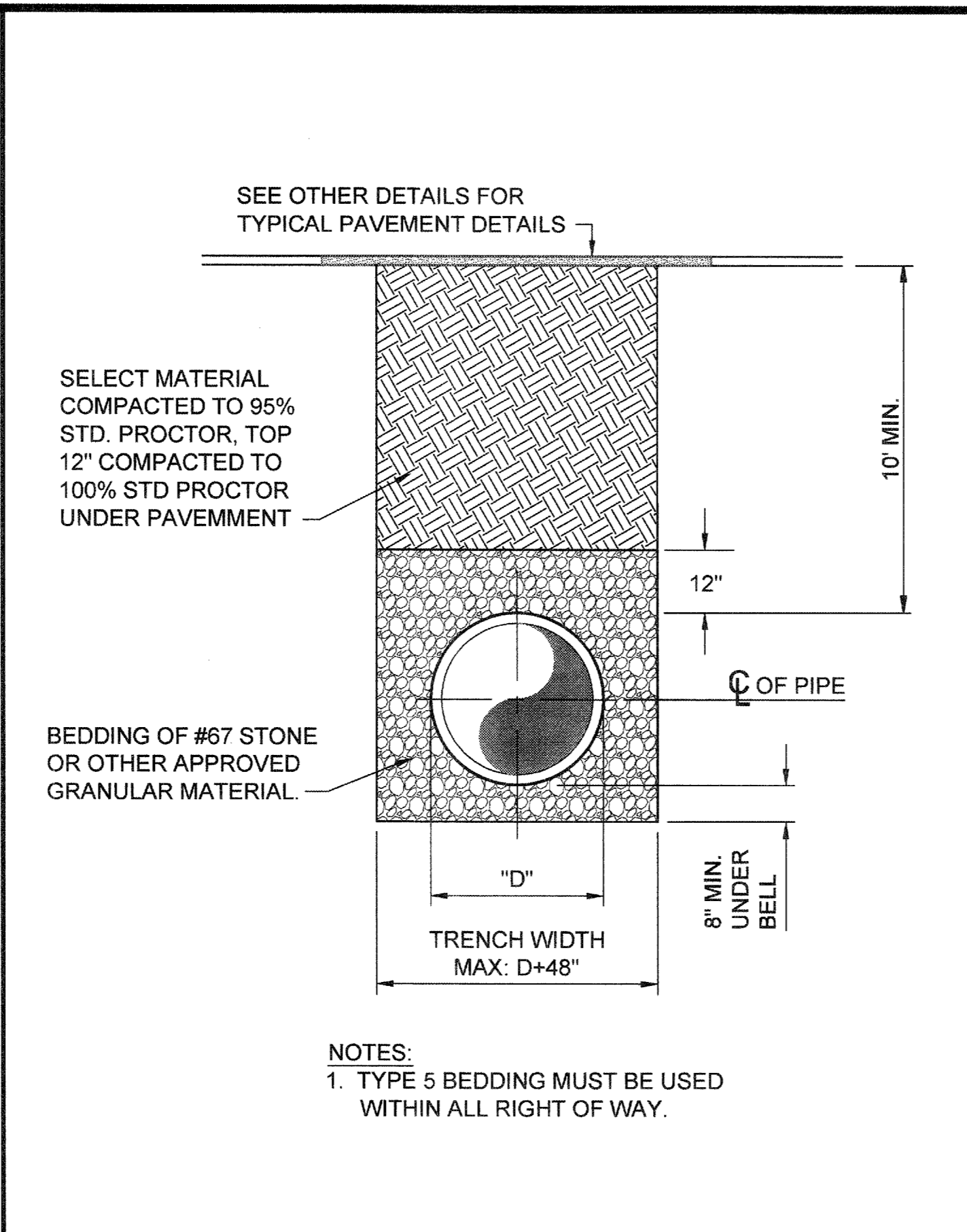
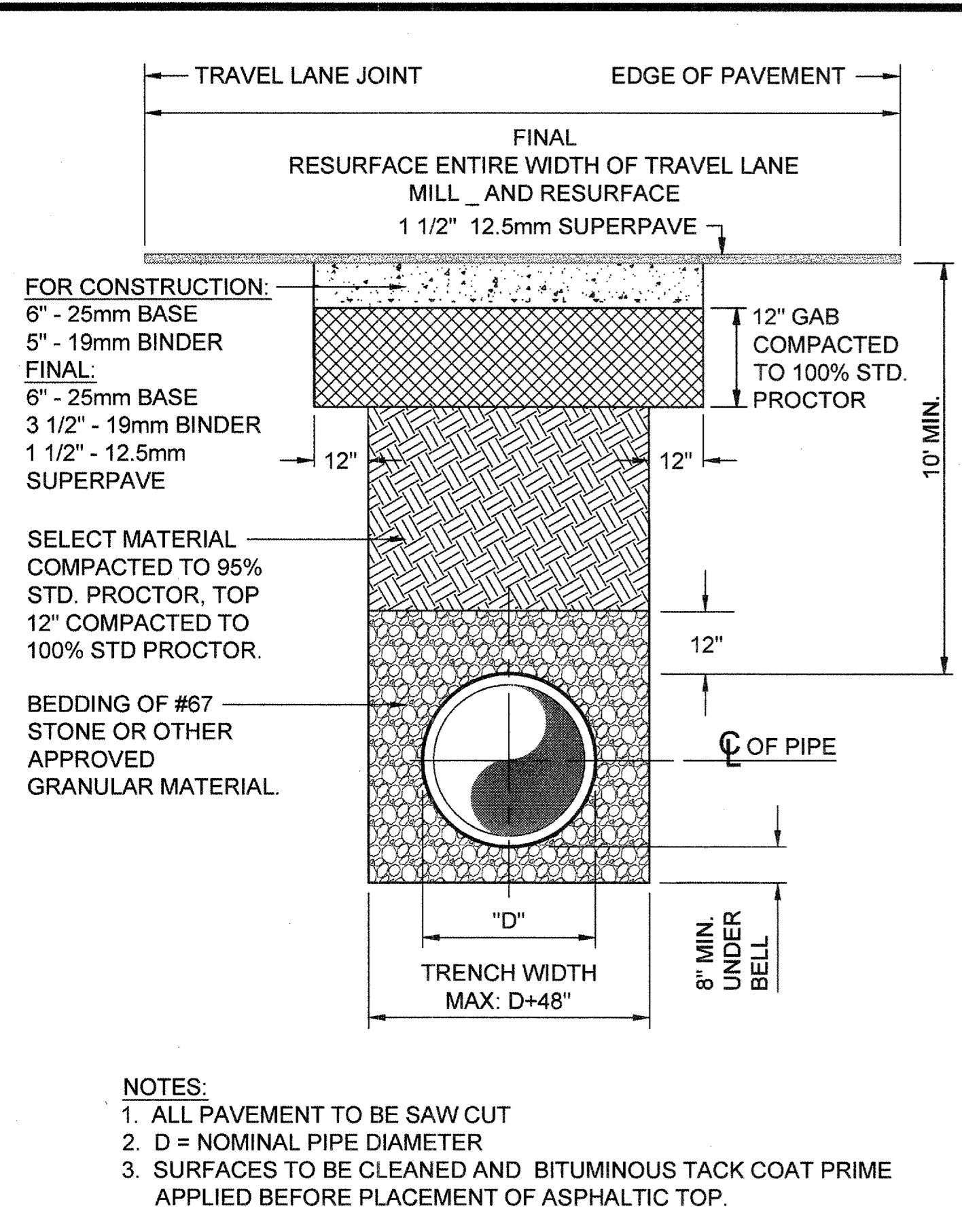
PROJ. No.: 100034854	DESIGNED BY: GRP	CHECKED BY: GRP	APPROVED BY: GRP	DATE: JAN. 2015	SCALE: AS SHOWN
	DRAWN BY: JIN				

COBB COUNTY-MARIETTA WATER AUTHORITY  
HIGHWAY 41 PHASE 4  
WATER MAIN

**PLAN AND PROFILE**

SHEET No.  
**2P-13**  
100034854

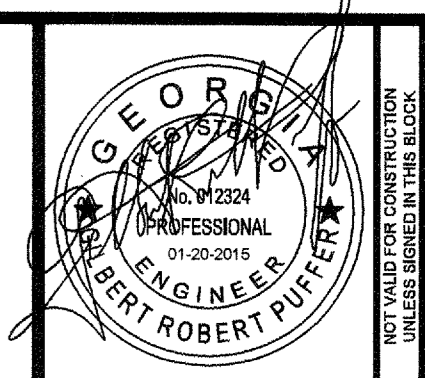
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	Asphalt Roadway HIGHWAY 41	Date	Revision	CCMWA Detail # 104
		04-29-14	GRP	

	Type 5 Bedding	Date	Revision	CCMWA Detail # 106
		04-29-14	GRP	

	Concrete Roadway	Date	Revision	CCMWA Detail # 107
		04-29-14	GRP	



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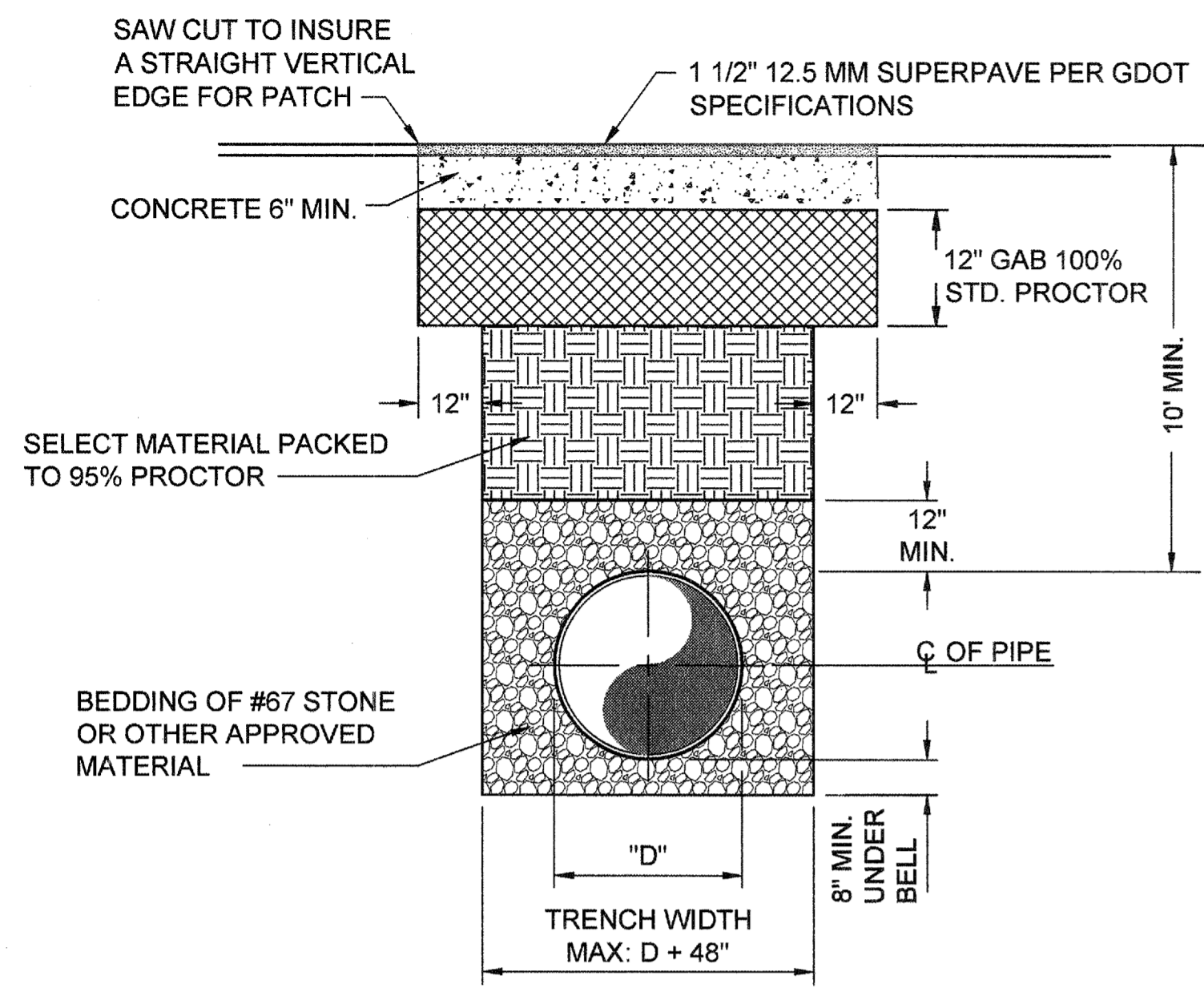


DATE	01/20/2015
REVISION	
FOR BID	
PROJ. No.:	100032548
DESIGNED BY:	GRP
DRAWN BY:	JN
CHECKED BY:	GRP
APPROVED BY:	GRP
DATE:	JAN. 2015
SCALE:	AS SHOWN

COBB COUNTY-MARIETTA WATER AUTHORITY  
HIGHWAY 41 PHASE IV  
WATER MAIN

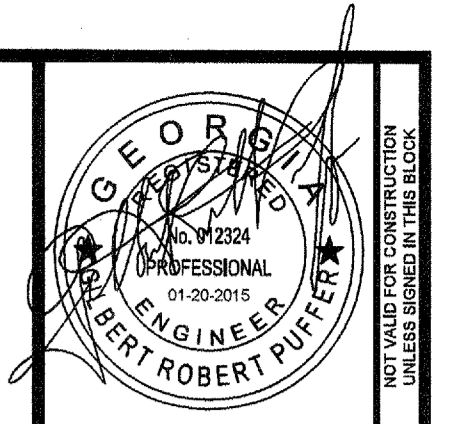
**MISCELLANEOUS DETAILS**

File Name: C:\PW\_WORK\ATKINS\100032548\WATER MAINS - D-100\DWG\Tab-D-100\Plot.dwg; February 19, 2015 7:56am



- NOTES:**
1. ALL PAVEMENT TO BE SAW CUT
  2. D = NOMINAL PIPE DIAMETER
  3. SURFACES TO BE CLEANED AND BITUMINOUS TACK COAT PRIME APPLIED BEFORE PLACEMENT OF ASPHALTIC TOP.

**DETAIL** (150)  
 ASPHALT DRIVEWAY



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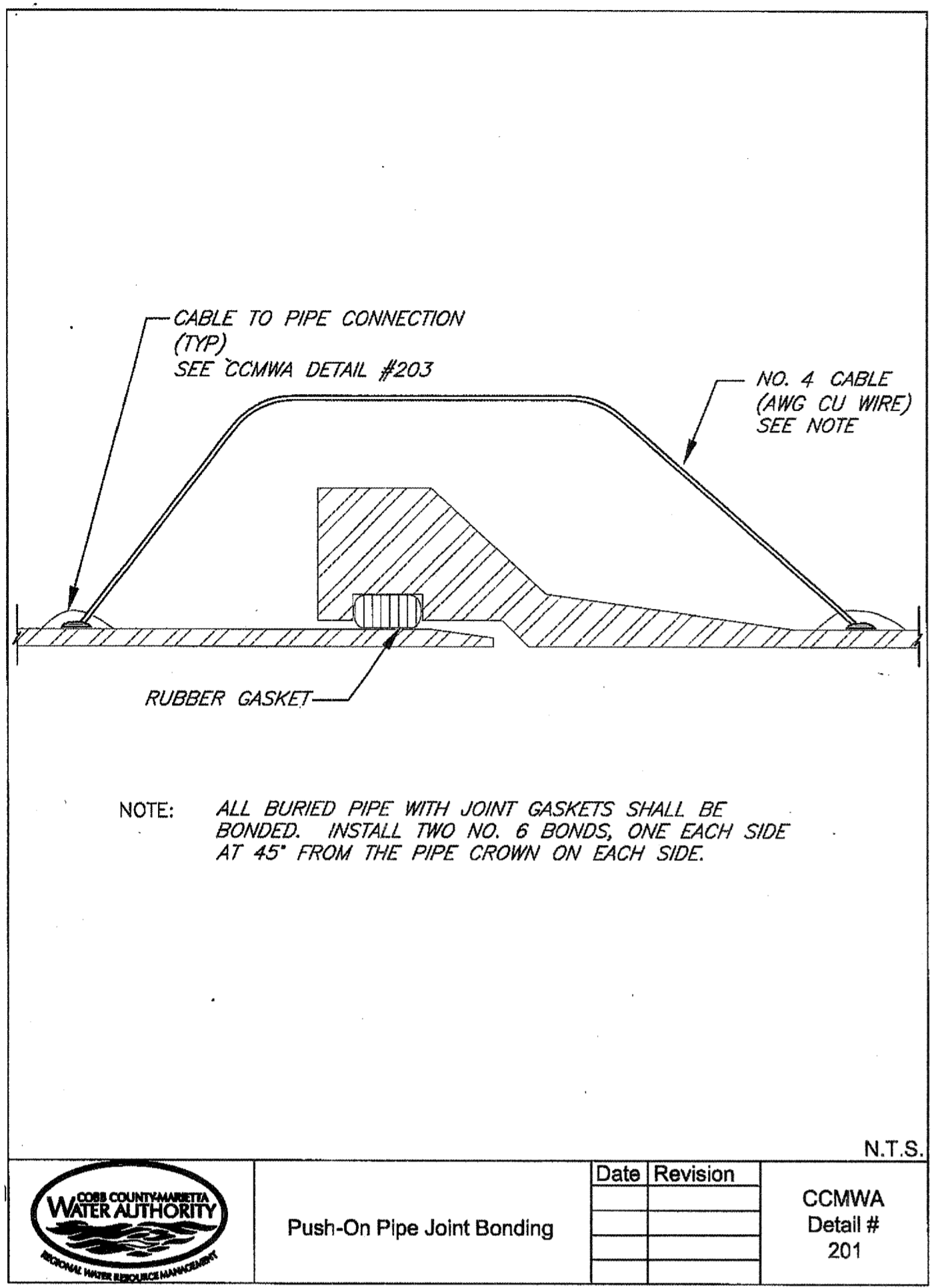
REVISION	DATE
FOR BID	01/20/2015

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN

PROJ. No.: 100032548  
 DESIGNED BY: GRP  
 DRAWN BY: JN  
 CHECKED BY: GRP  
 APPROVED BY: GRP  
 DATE: JAN. 2015  
 SCALE: AS SHOWN

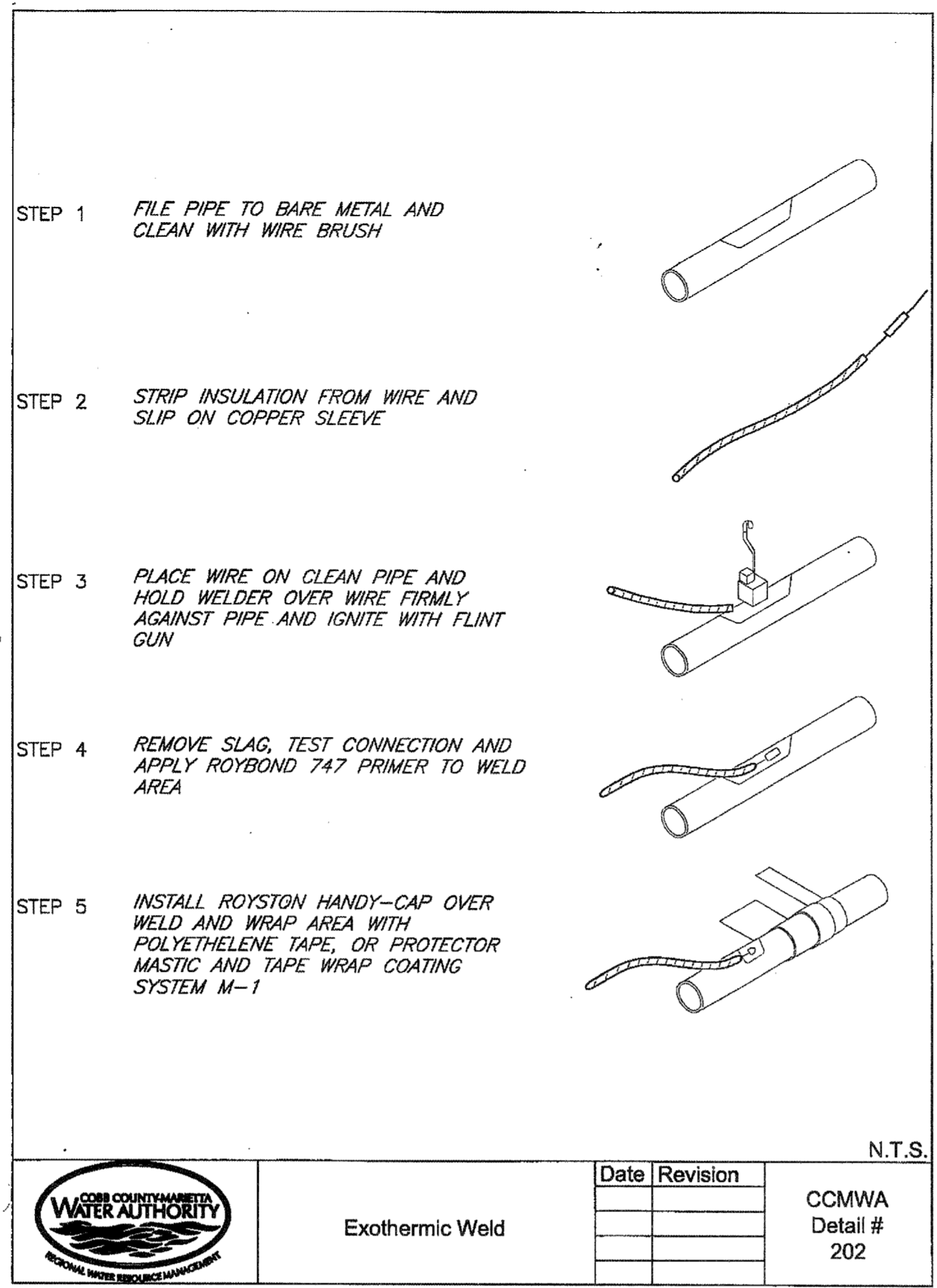
**MISCELLANEOUS DETAILS**

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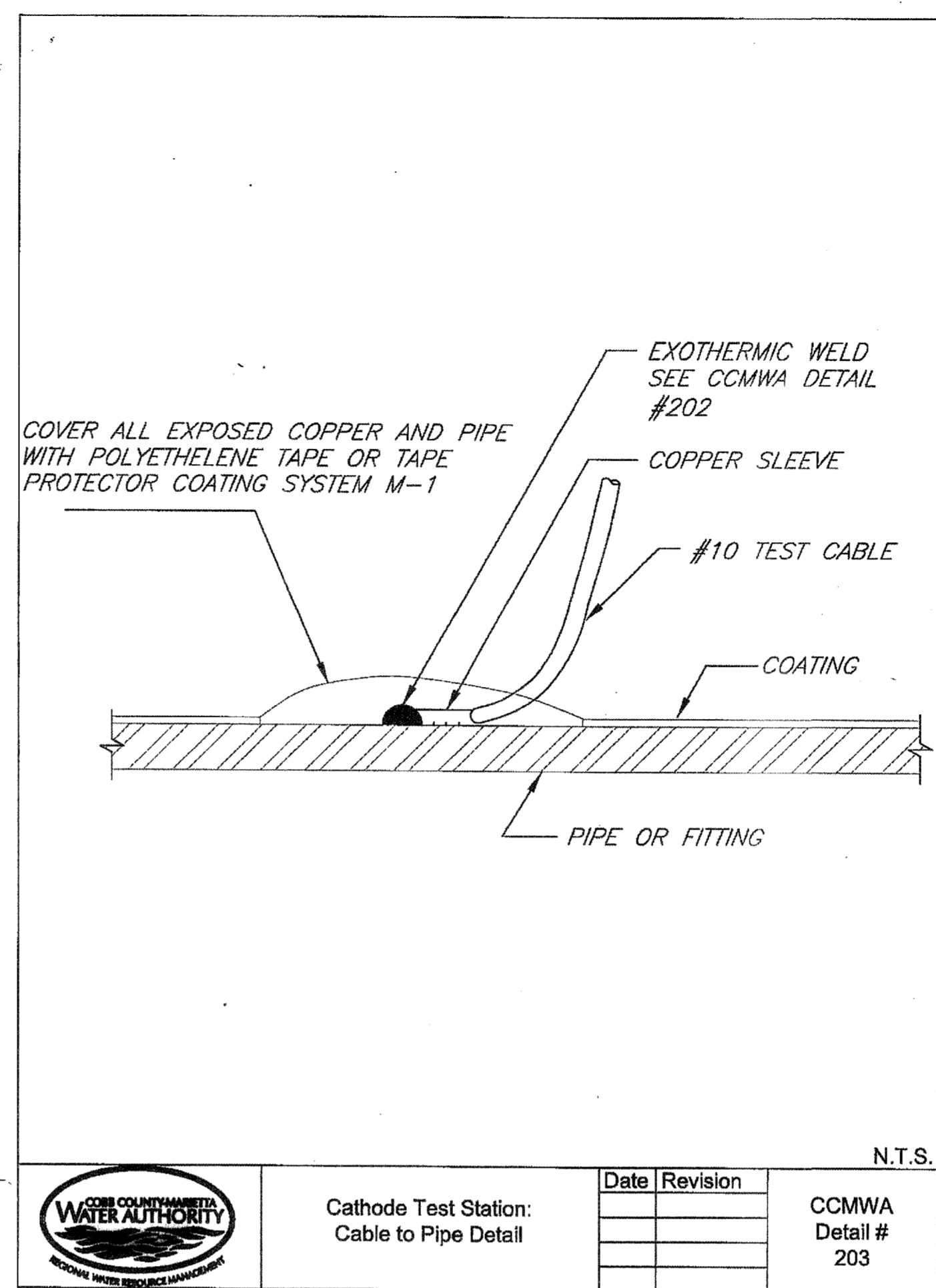
N.T.S.

	Push-On Pipe Joint Bonding	Date	Revision	CCMWA Detail # 201



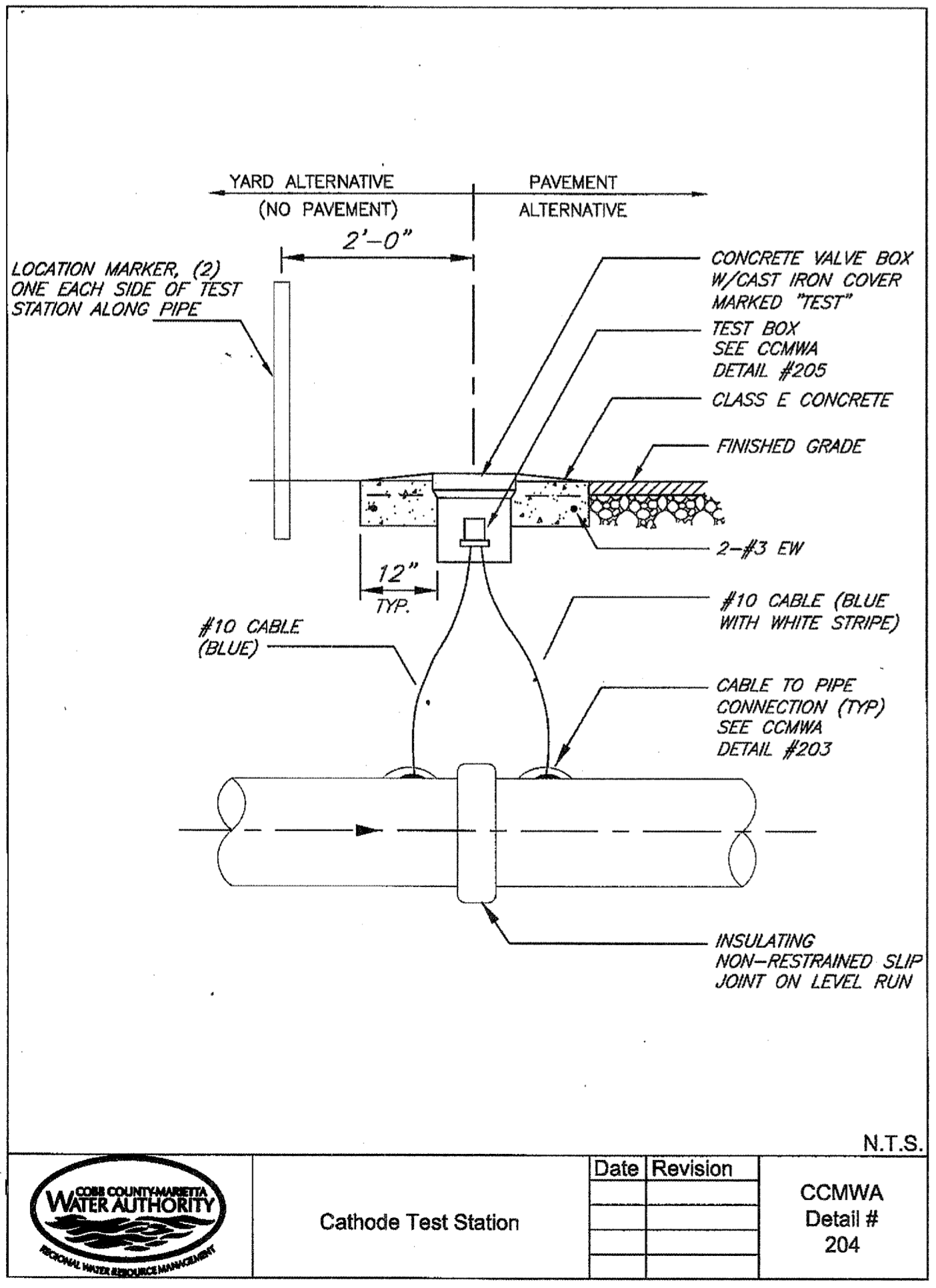
N.T.S.

	Exothermic Weld	Date	Revision	CCMWA Detail # 202



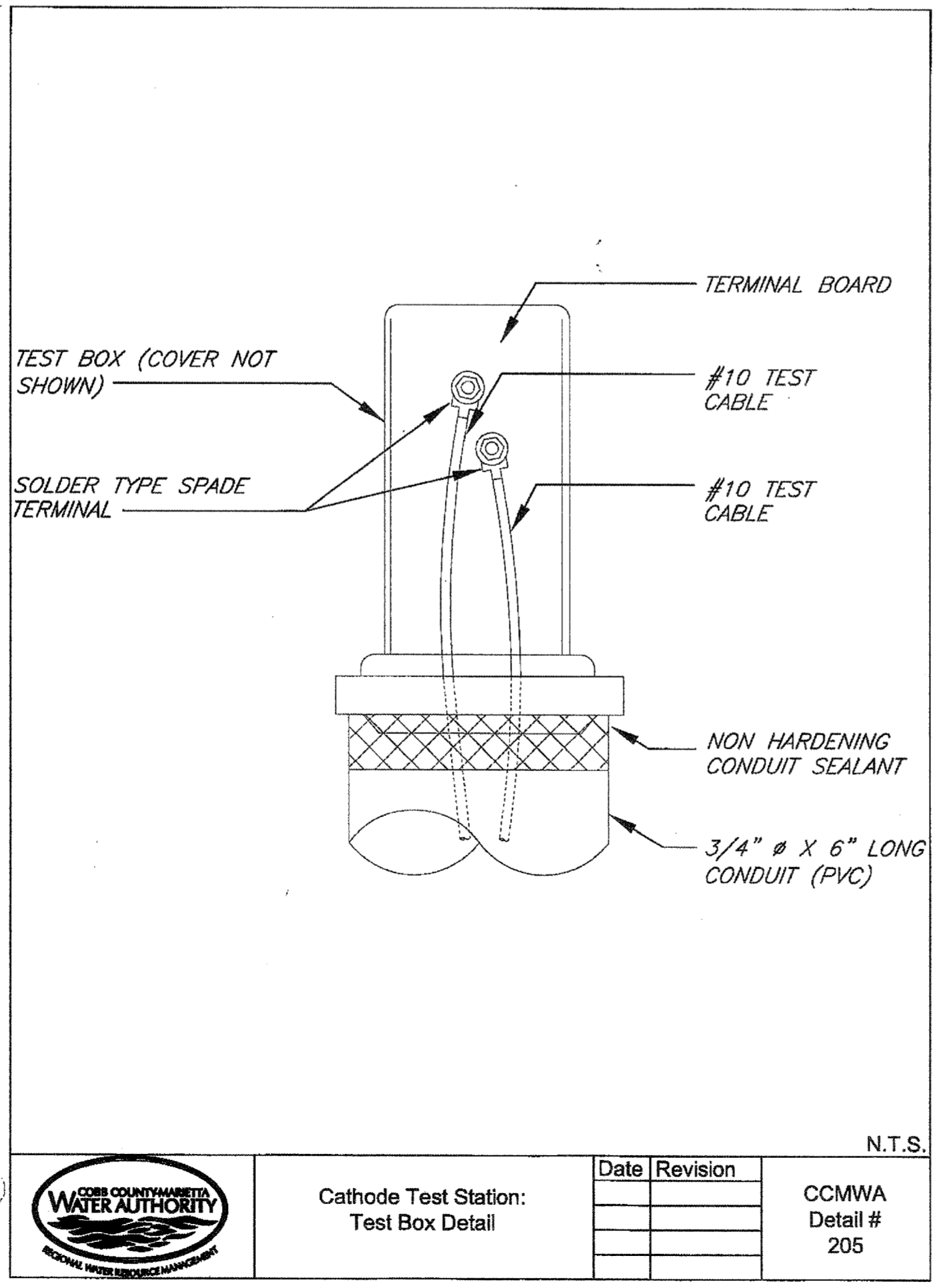
N.T.S.

	Cathode Test Station: Cable to Pipe Detail	Date	Revision	CCMWA Detail # 203



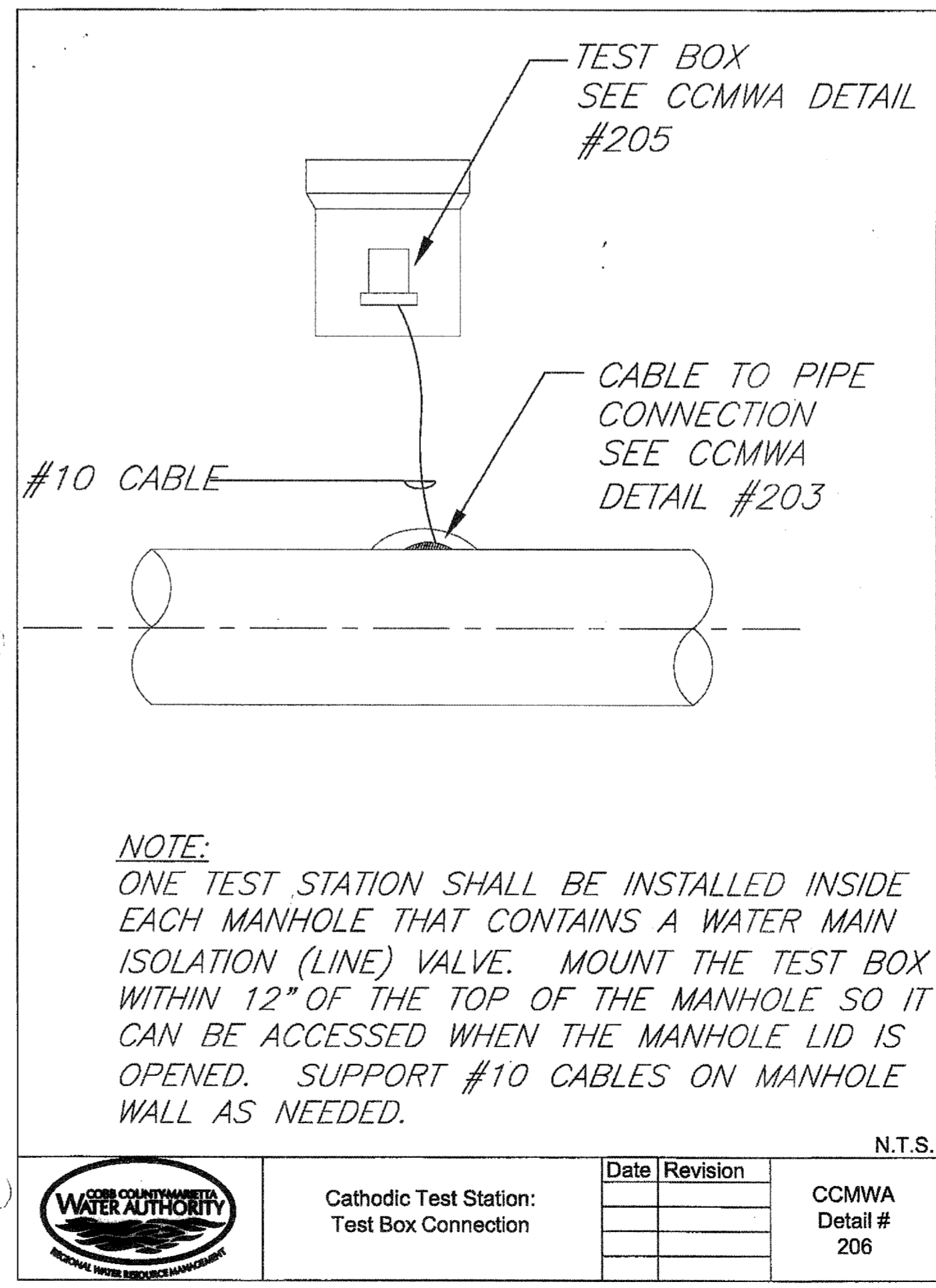
N.T.S.

	Cathode Test Station	Date	Revision	CCMWA Detail # 204



N.T.S.

	Cathode Test Station: Test Box Detail	Date	Revision	CCMWA Detail # 205



N.T.S.

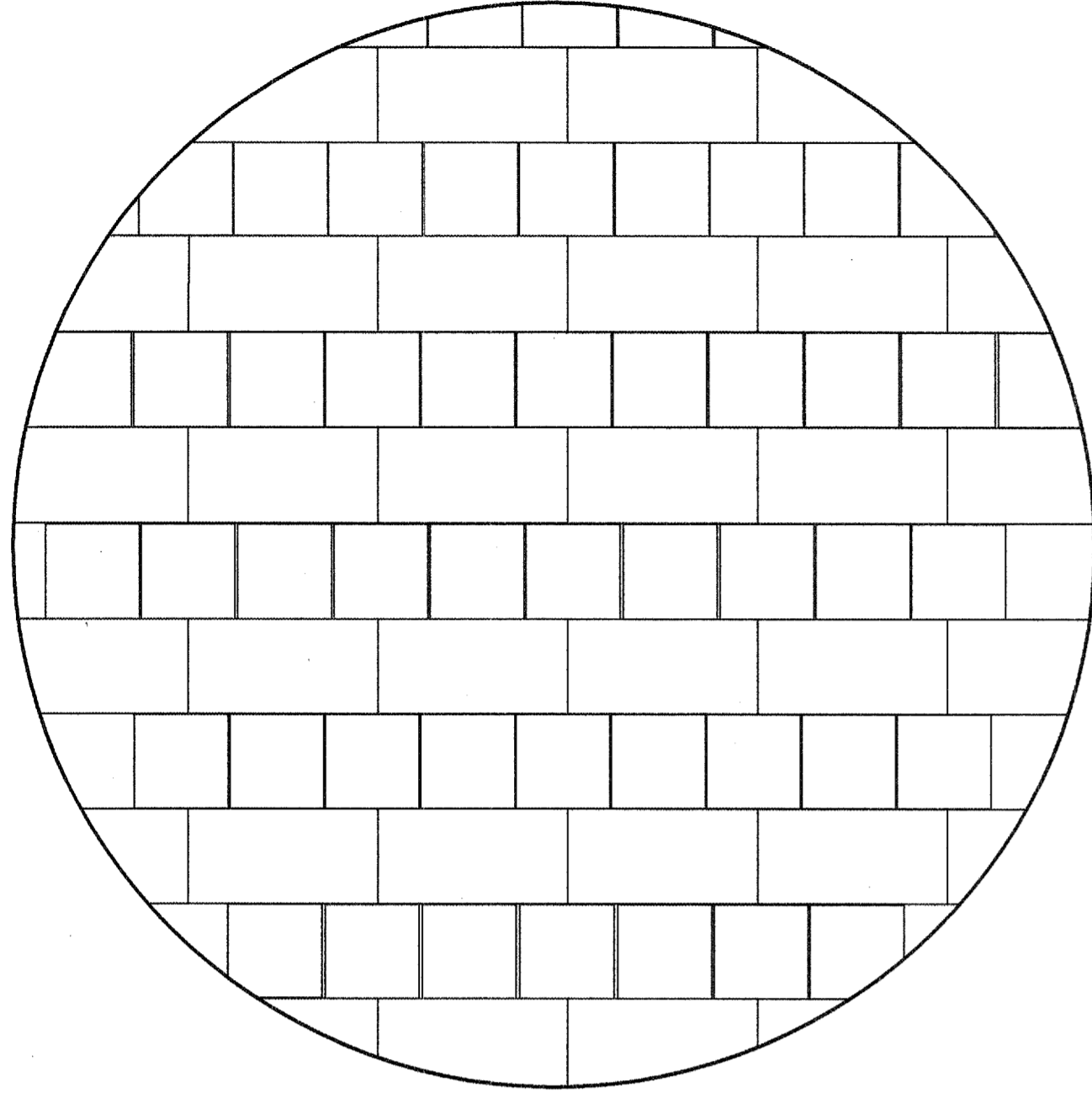
	Cathode Test Station: Test Box Connection	Date	Revision	CCMWA Detail # 206

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PROJ. No.: 100032548	DESIGNED BY: GRP	CHECKED BY: JN	APPROVED BY: GRP	DATE: JAN, 2015	SCALE: AS SHOWN
COBB COUNTY-MARIETTA WATER AUTHORITY HIGHWAY 41 PHASE IV WATER MAIN	<b>MISCELLANEOUS DETAILS</b>				
SHEET No. <b>D-200</b> 100032548					

File Name: C:\P\WORK\ATKINS\101\NEW\41\41000\WATER MAINS - D-200\DWG\Tab-D-200.dwg; Date: February 19, 2015 7:49am

TRIPLE (3) ROWS OF BRICK AND MORTAR



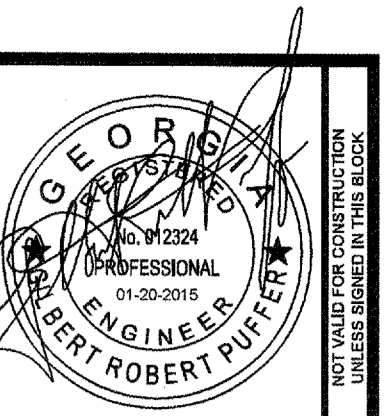
N.T.S.



Abandoned Pipe  
and Bulkhead Brick

Date	Revision
05-21-13	GRP

CCMWA  
Detail #  
302



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DATE

01/20/2015

REVISION

FOR BID

PROJ. No.: 100032548

DESIGNED BY: GRP

DRAWN BY: JN

CHECKED BY: GRP

APPROVED BY: GRP

DATE: JAN, 2015

SCALE: AS SHOWN

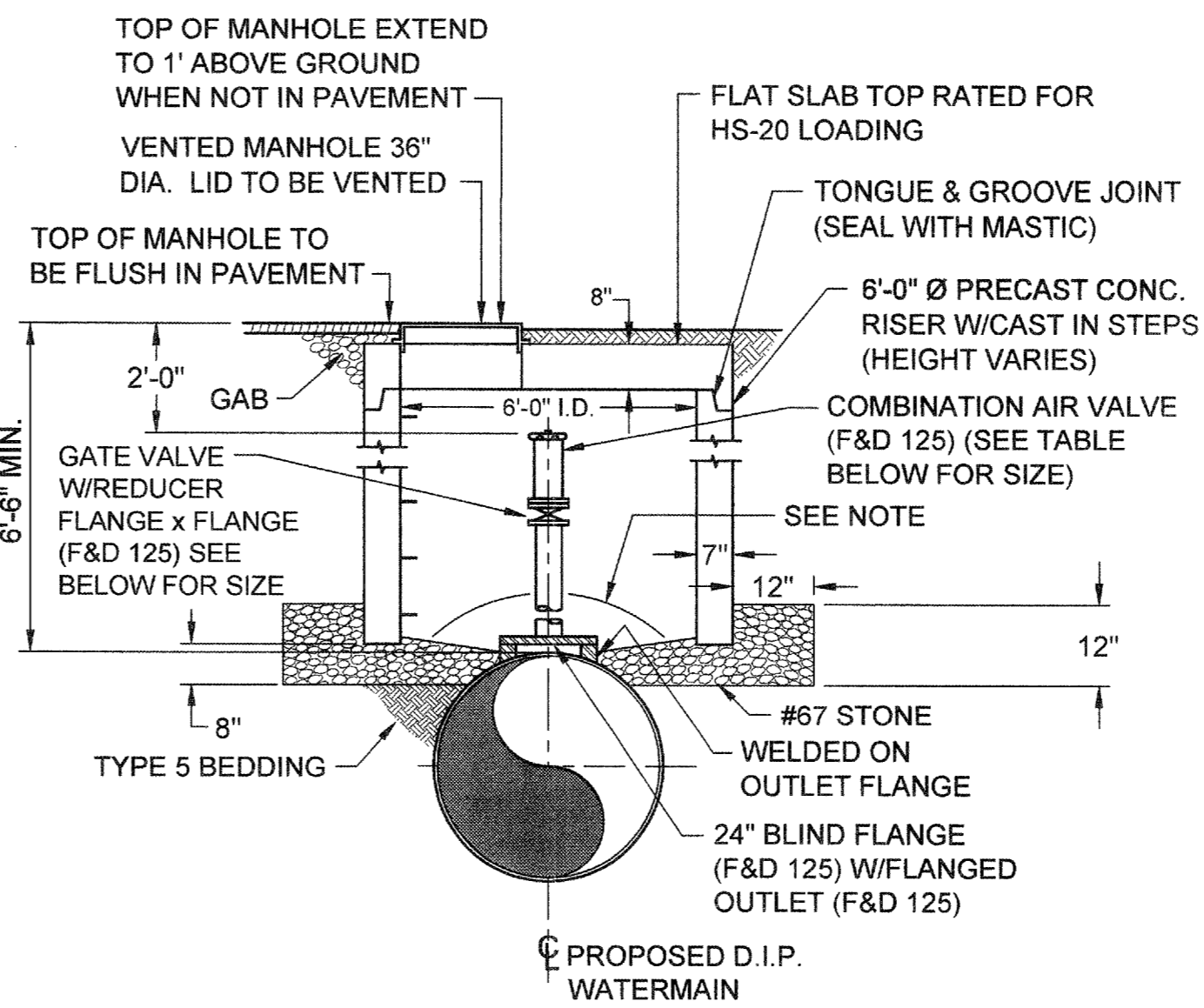
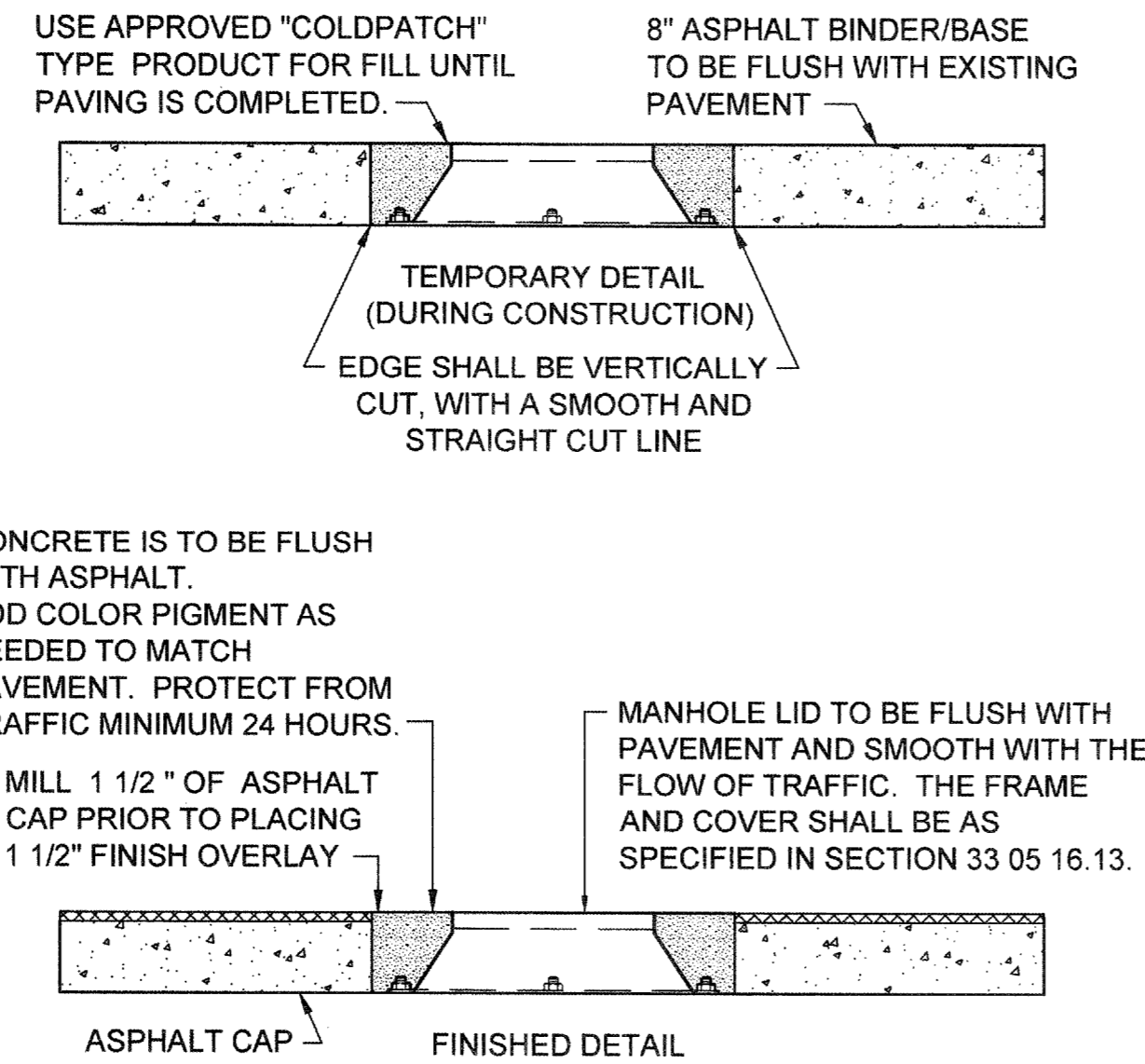
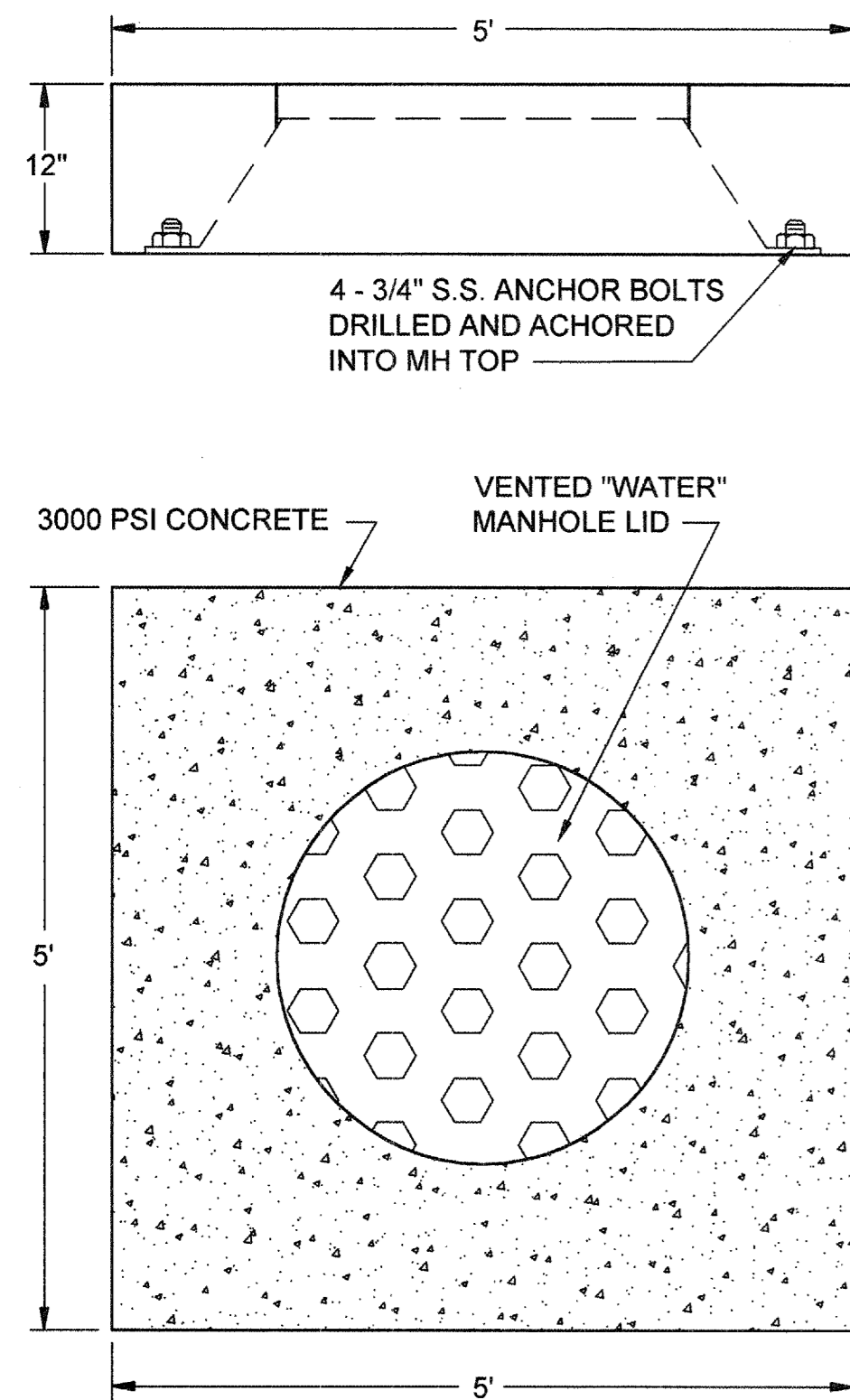
COBB COUNTY-MARIETTA WATER AUTHORITY  
HIGHWAY 41 PHASE IV  
WATER MAIN

MISCELLANEOUS DETAILS

SHEET No.

**D-300**

100032548



MAIN SIZE	A & V SIZE*	OUTLET SIZE	GATE VALVE SIZE	REDUCER SIZE
24"	4"	6"	6"	6" x 4"
36"	4"	6"	6"	6" x 4"
42"	6"	8"	8"	8" x 6"
54"	6"	8"	8"	8" x 6"

- NOTES:
1. DOGHOUSE MANHOLE SECTION AS REQ'D TO MAINTAIN 1'-0" CLEAR ABOVE PIPE.
  2. MANHOLES FOR 24" BUTTERFLY VALVES TO BE SIMILAR. LIDS TO BE VENTED.
  3. ALL GASKETS SHALL BE TOROSEAL, OR EQUAL.
  4. 18" CLEARANCE REQUIRED BETWEEN PORT AND BOTTOM OF SLAB.

N.T.S.

N.T.S.

N.T.S.

**Manhole Lid and Concrete Pad (1 of 2)**

Date: 04-29-14  
Revision: GRP

CCMWA Detail # 401

**Manhole Lid and Concrete Pad (2 of 2)**

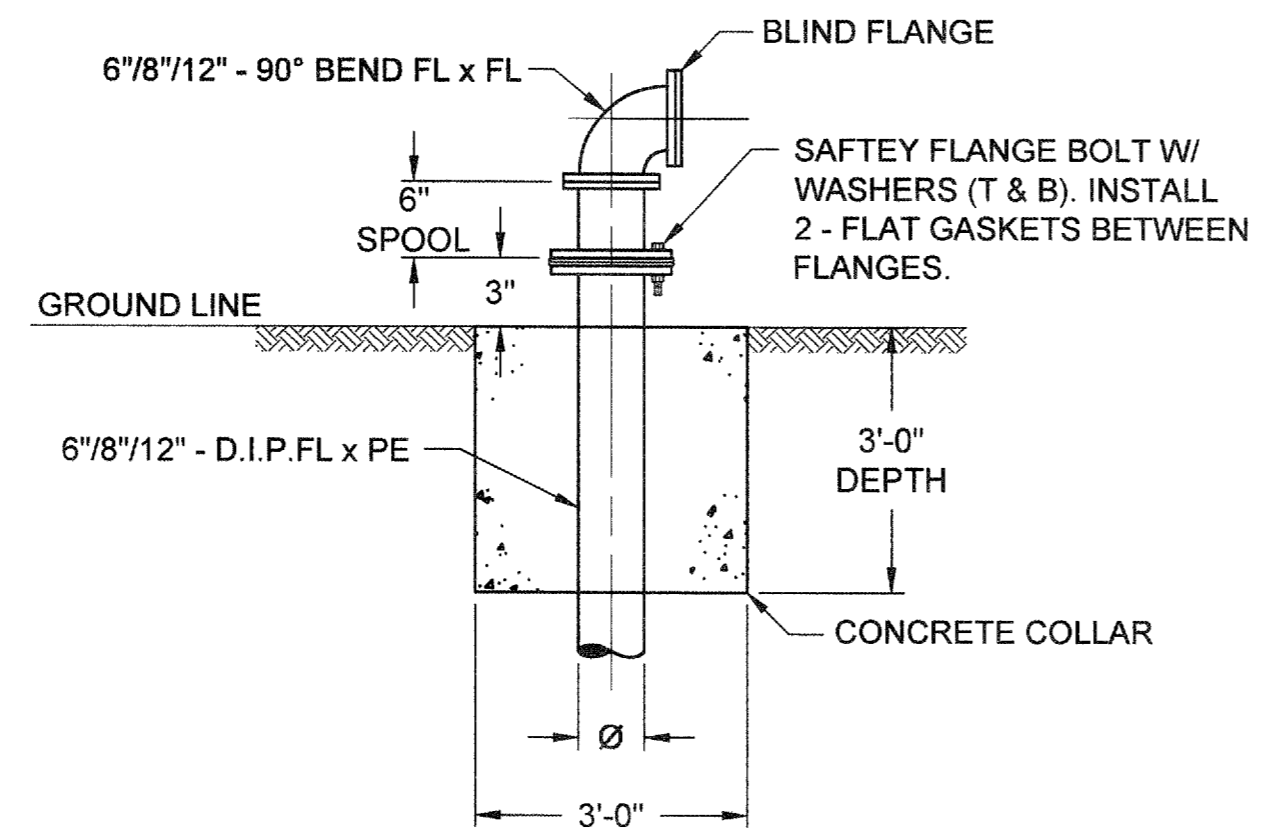
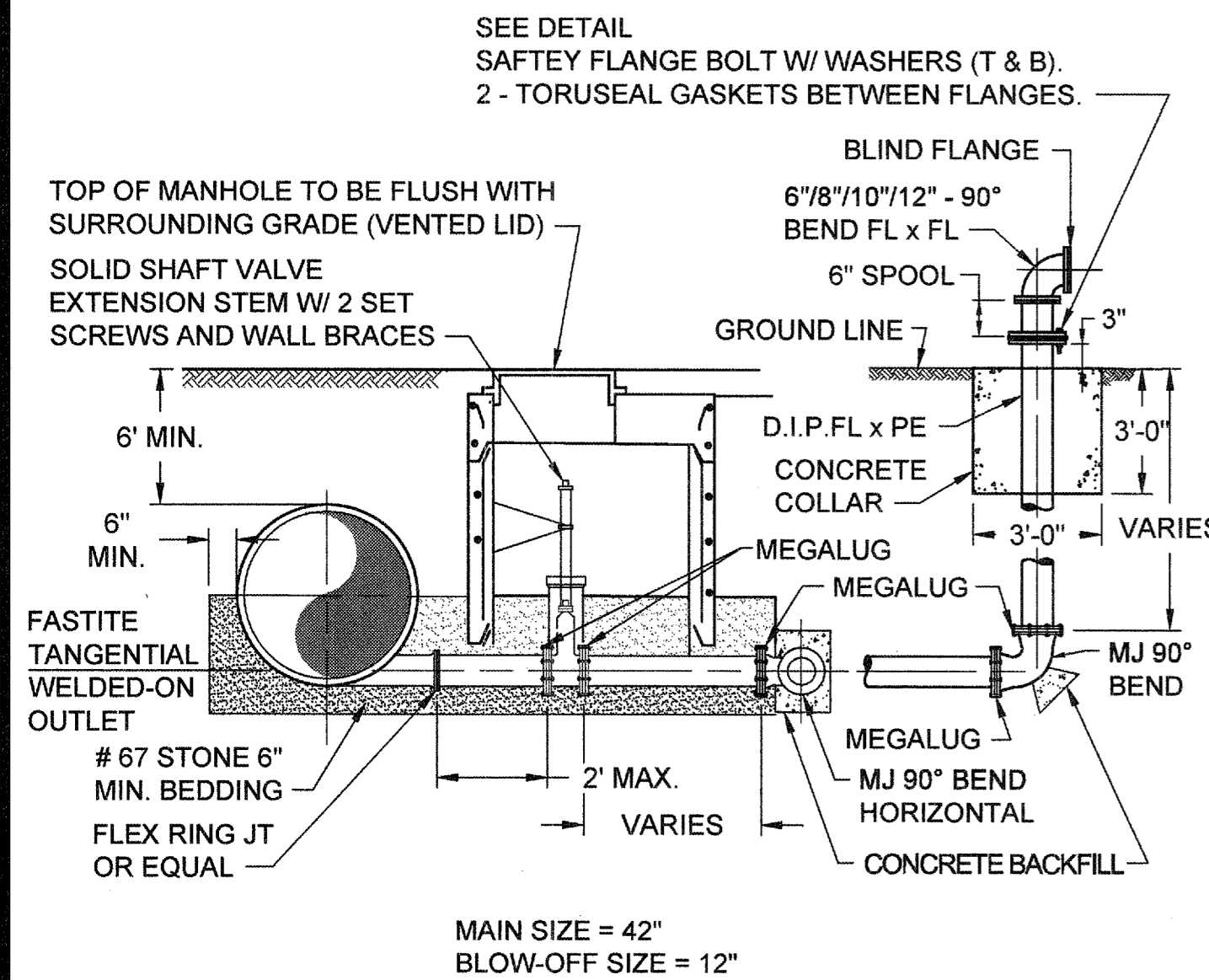
Date: 04-29-14  
Revision: GRP

CCMWA Detail # 402

**Combination Air & Vacuum Assembly with Access Port**

Date: 04-29-14  
Revision: GRP

CCMWA Detail # 403



- NOTES:
1. MEGALUGS TO BE USED WITH ALL MECHANICAL JOINT FITTINGS. PUSH-ON JOINTS TO BE RESTRAINED WITH FAST GRIP GASKETS.
  2. TEES & BENDS SHALL BE MECHANICAL JOINT WITH MEGALUGS.

- NOTES:
1. SAFETY FLANGE BOLTS SHALL BE 5/8"Ø GRADE 5 STEEL WITH MINIMUM TENSILE STRENGTH OF 120 KSI. BOLTS, NUTS, AND WASHERS SHALL BE ELECTRO ZINC PLATED. SAFETY FLANGE BOLTS AND ACCESSORIES SHALL BE MANUFACTURED BY BIRMINGHAM FASTENERS OR APPROVED EQUAL.
  2. USE AMERICAN REB RUBBER FLAT GASKET OR APPROVED EQUAL.

N.T.S.

N.T.S.

**Blow-Off Above Grade Installation**

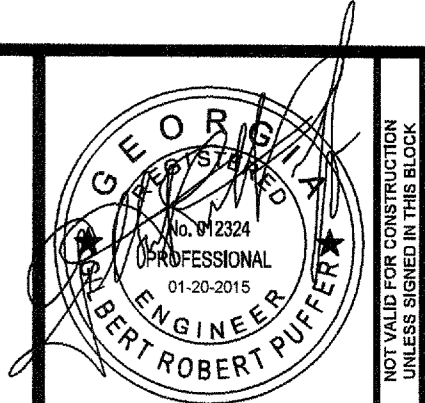
Date: 04-29-14  
Revision: GRP

CCMWA Detail # 405

**Blow-Off Fitting and Flanged Fitting**

Date: 04-29-14  
Revision: GRP

CCMWA Detail # 406



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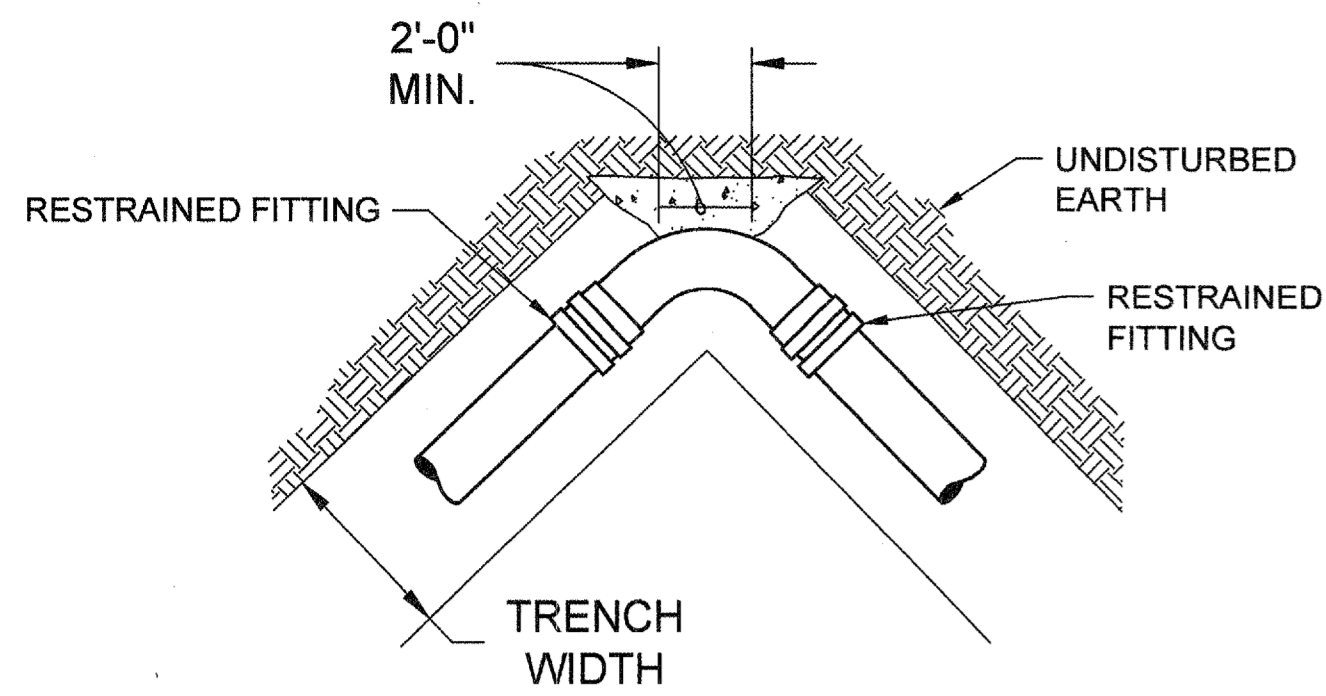
DATE	REVISION
01/20/2015	FOR BID

PROJ. No.: 100032548  
DESIGNED BY: GRP  
DRAWN BY: JIN  
CHECKED BY: GRP  
APPROVED BY: GRP  
DATE: JAN. 2015  
SCALE: AS SHOWN

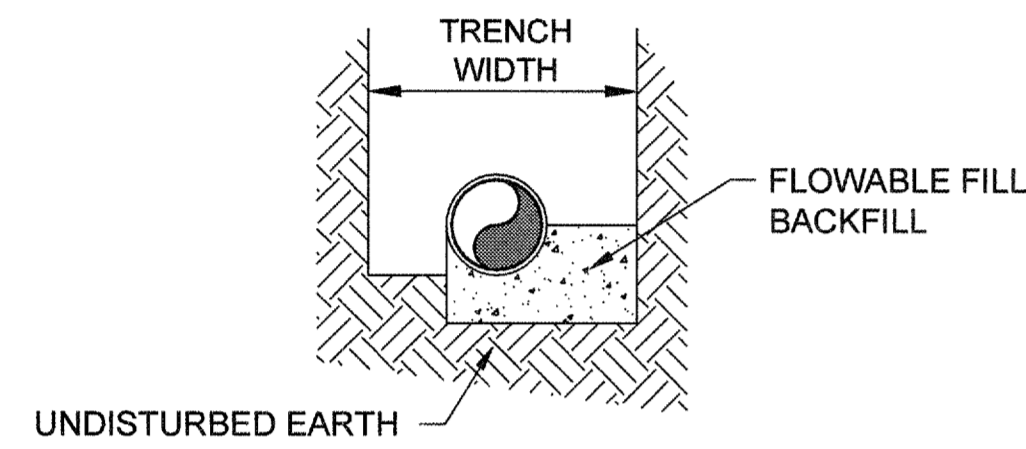
COBB COUNTY-MARIETTA WATER AUTHORITY  
HIGHWAY 41 PHASE IV  
WATER MAIN

**MISCELLANEOUS DETAILS**

SHEET No.  
**D-400**  
100032548

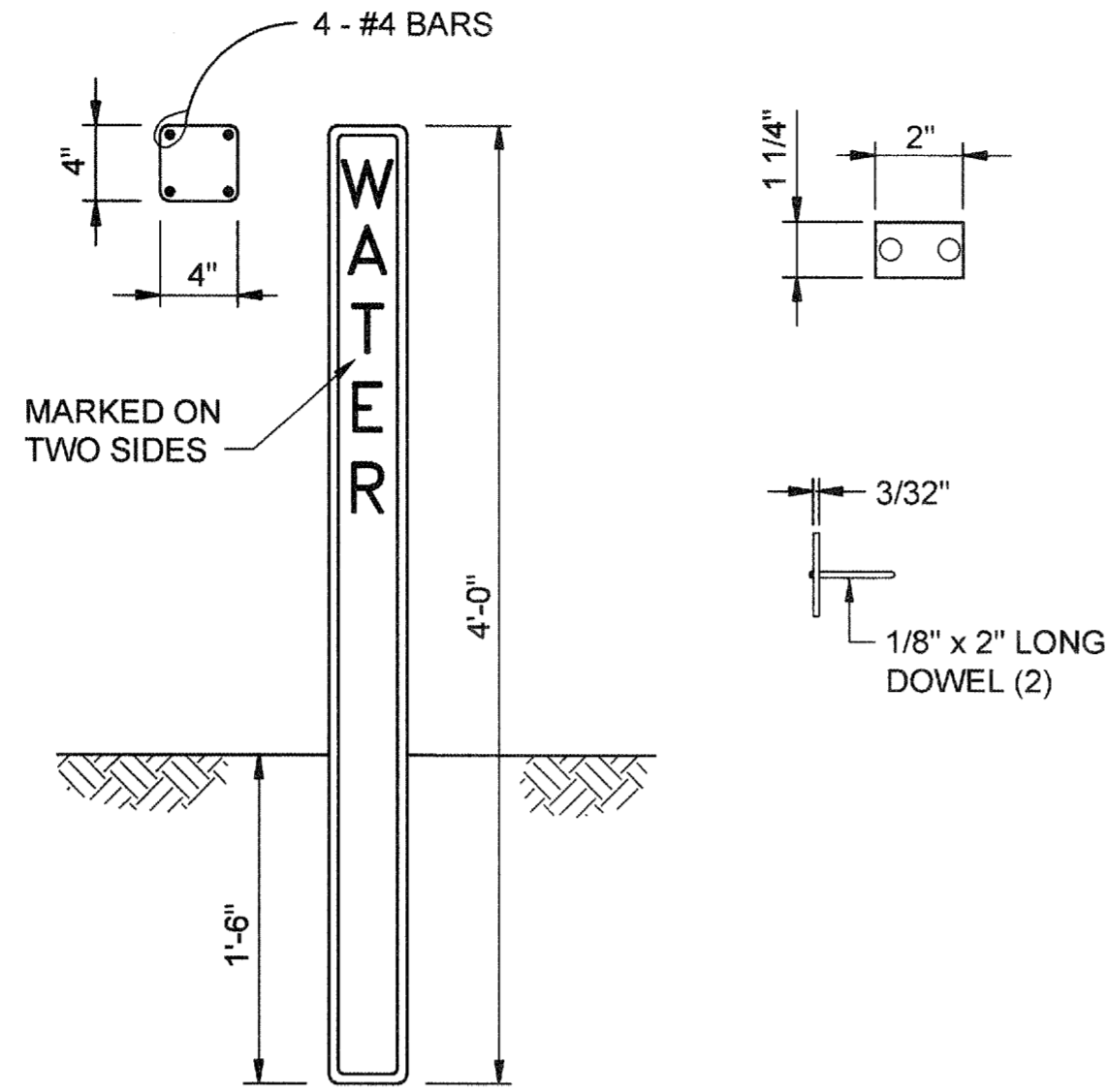


BACKFILL PLAN FOR TYPICAL BENDS



SECTION (TYP.)

N.T.S.



ALUMINUM PLATE CAST IN SIDE OF MARKER POST. DISTANCE (NEAREST FOOT) FROM Q. OF POST TO Q. OF VALVE BOX AND DIRECTION ARROW TO BE STAMPED INTO PLATE WITH STEEL DIE AFTER MARKER IS SET.

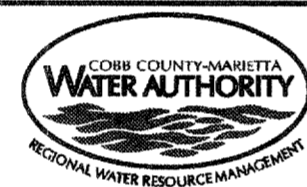
NTS



Concrete Backfill at Bends

Date	Revision
04-29-14	GRP

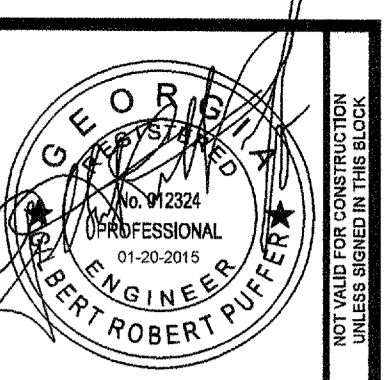
CCMWA  
Detail #  
412



Concrete Valve Marker

Date	Revision
04-29-14	GRP

CCMWA  
Detail #  
413



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P: 770-833-0280



DATE
01/20/2015

REVISION
FOR BID

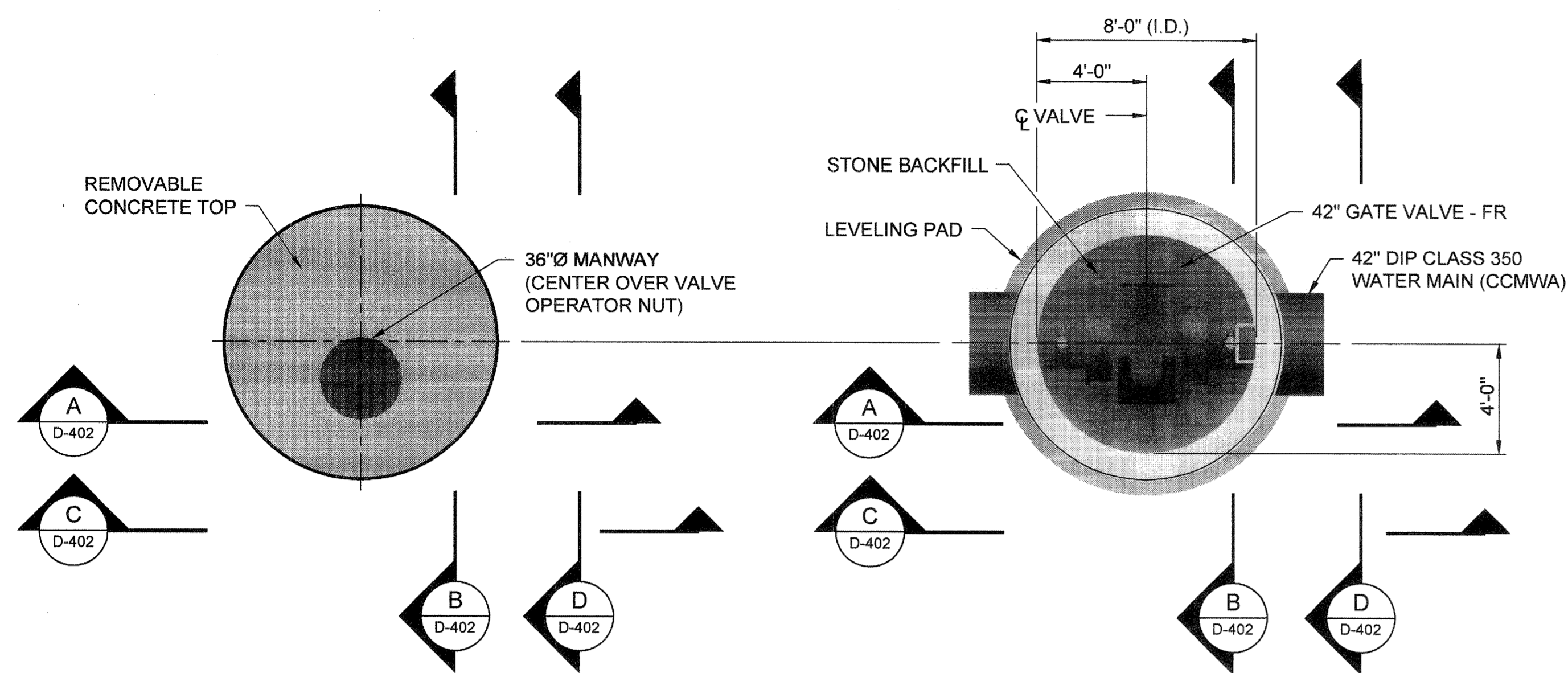
PROJ. No.:	DESIGNED BY:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:	SCALE:
100032548	GRP	JN	GRP	GRP	JAN. 2015	AS SHOWN

COBB COUNTY-MARIETTA WATER AUTHORITY
HIGHWAY 41 PHASE IV
WATER MAIN

MISCELLANEOUS DETAILS
-----------------------

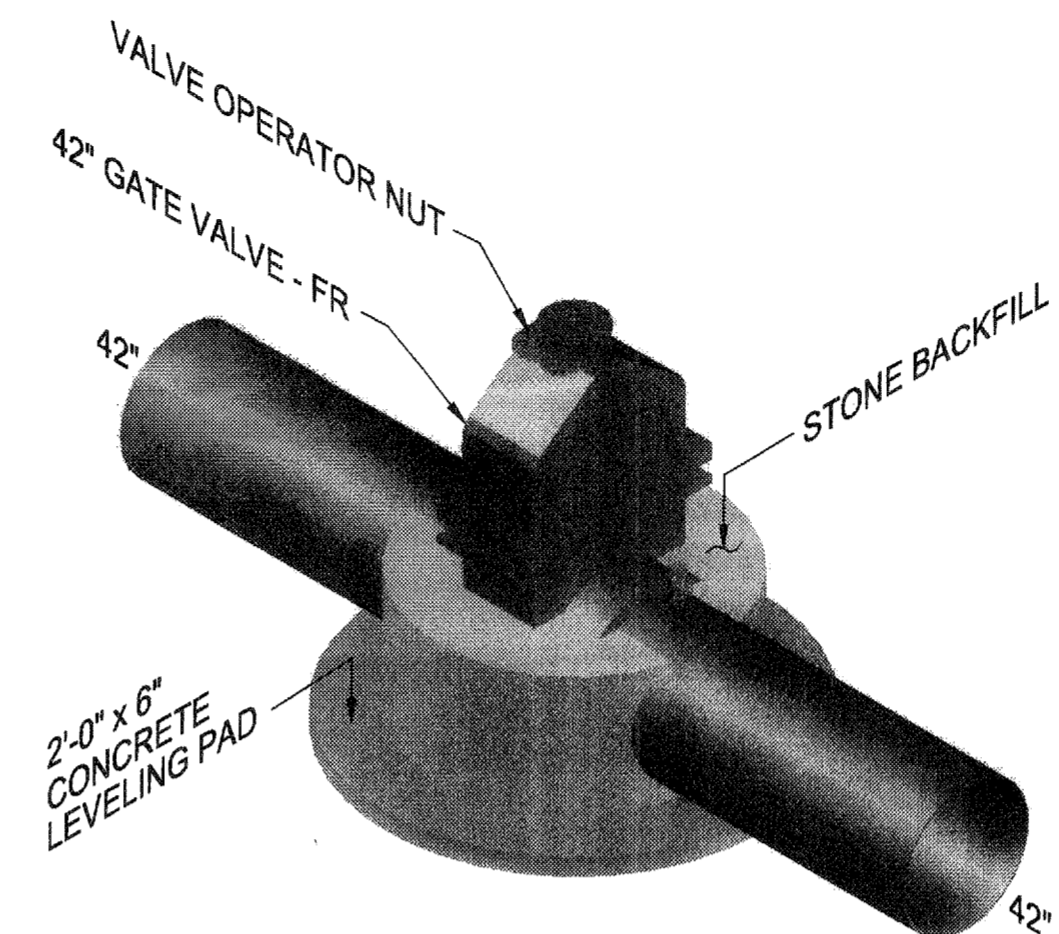
SHEET No.
D-401
100032548



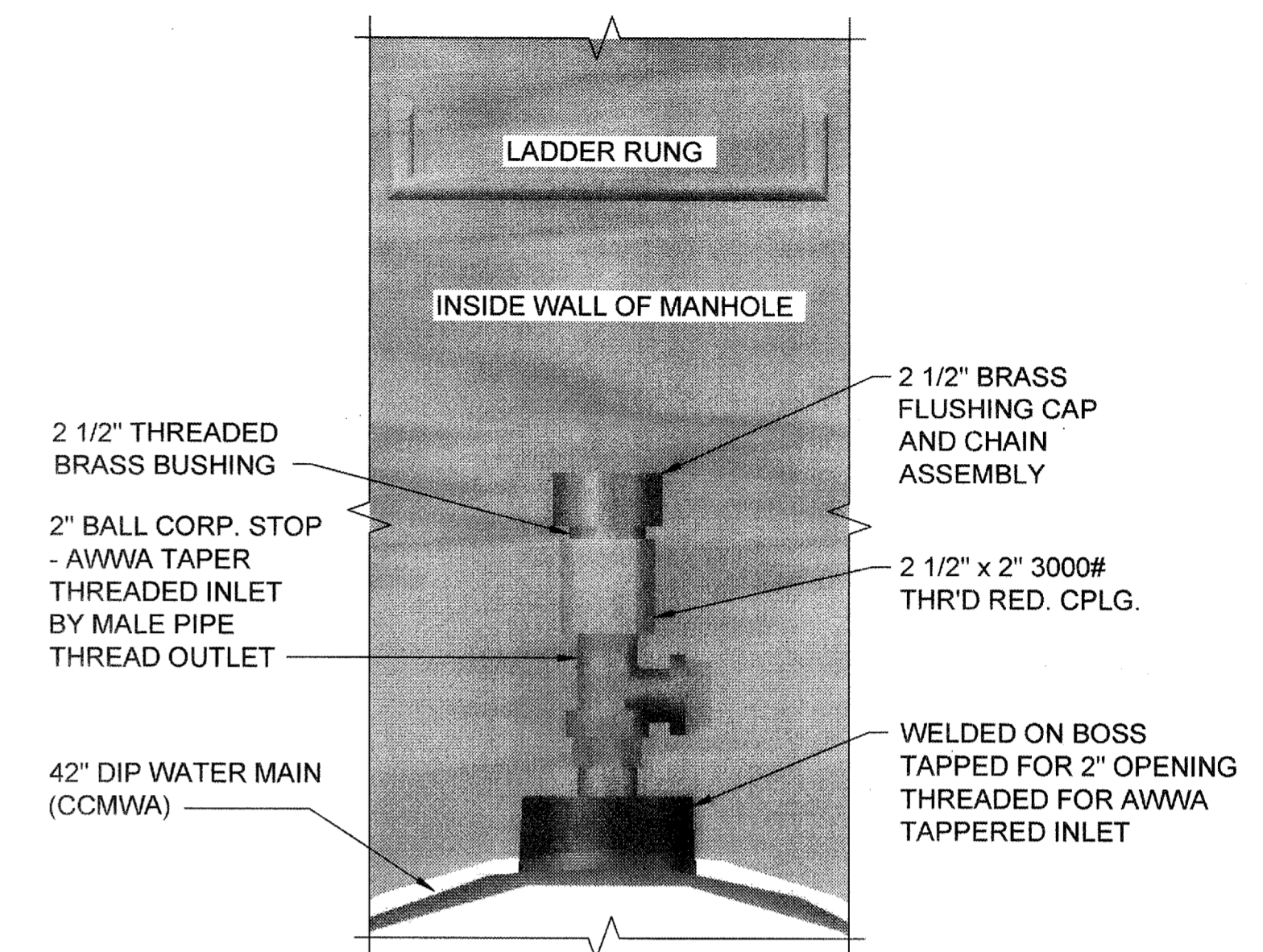


**TOP PLAN**  
SCALE: 1/4"=1'-0"  
(PAVEMENT OMITTED FOR CLARITY)

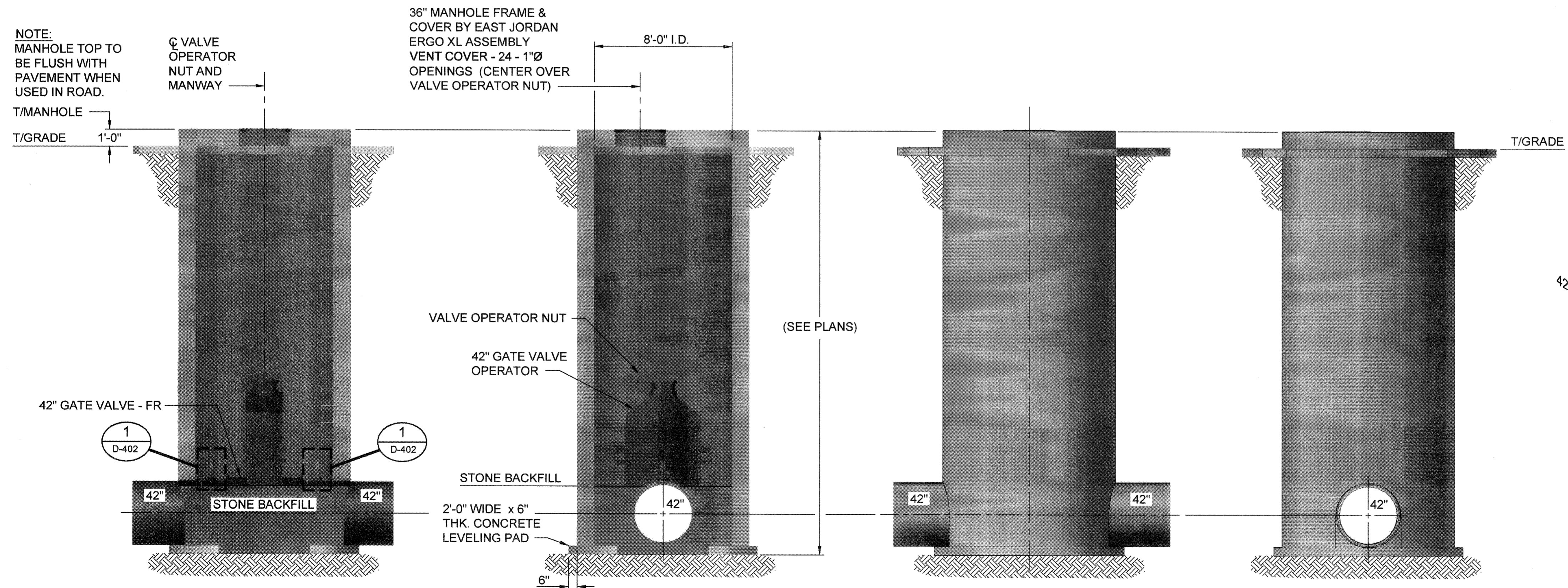
**INTERMEDIATE PLAN**  
SCALE: 1/4"=1'-0"



**ISOMETRIC**  
SCALE: NTS  
(WALLS OMITTED FOR CLARITY)



**DETAIL** 1  
SCALE: 1 1/2"=1'-0" D-402

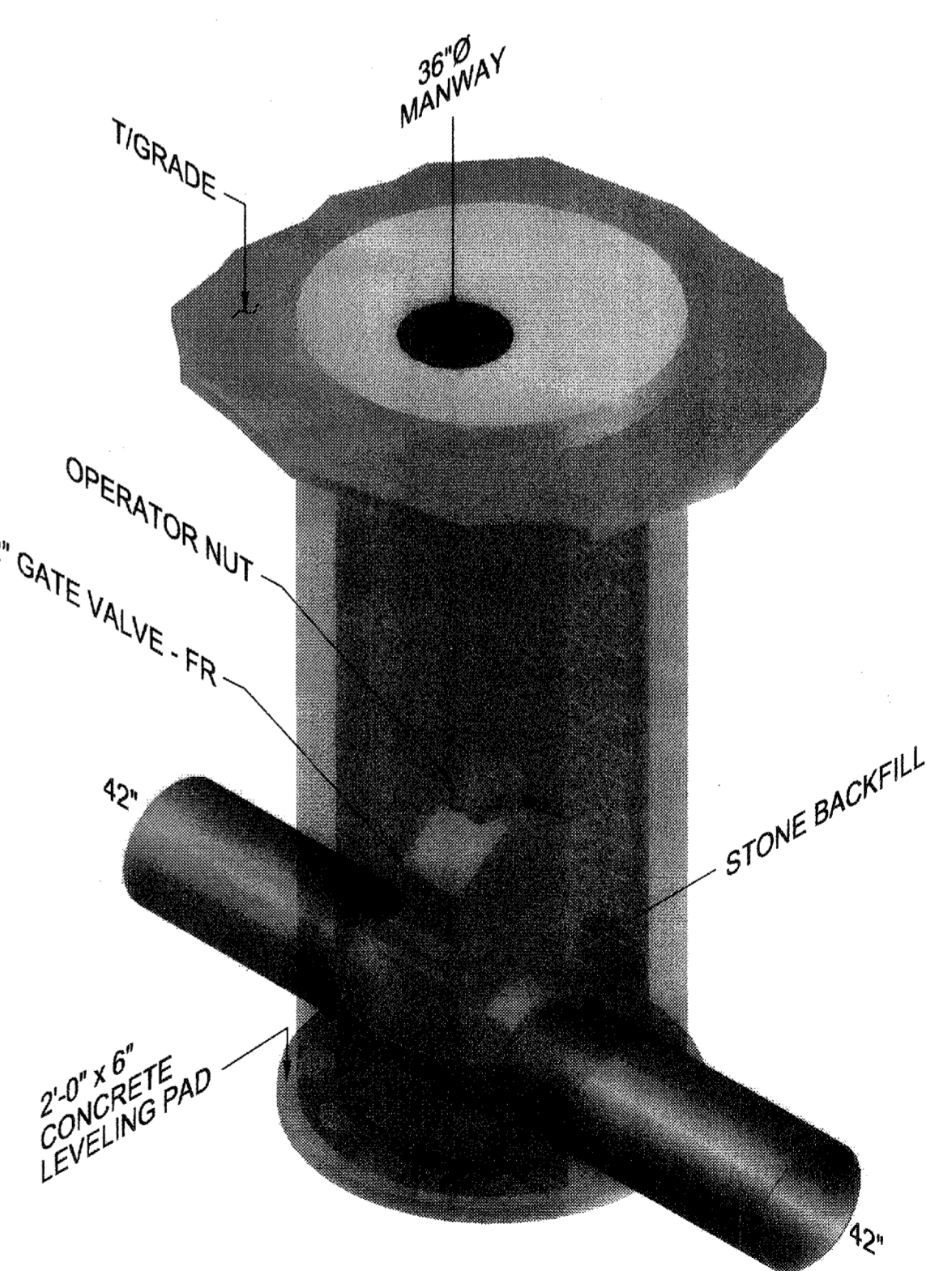


**SECTION A**  
SCALE: 1/4"=1'-0" D-402

**SECTION B**  
SCALE: 1/4"=1'-0" D-402

**ELEVATION C**  
SCALE: 1/4"=1'-0" D-402

**ELEVATION D**  
SCALE: 1/4"=1'-0" D-402



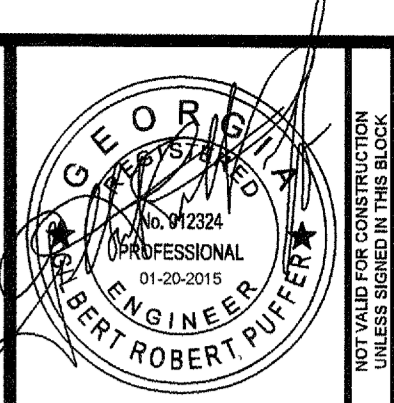
**ISOMETRIC**  
SCALE: NTS

NOTE:  
MANHOLE TOP TO  
BE FLUSH WITH  
PAVEMENT WHEN  
USED IN ROAD.

36" MANHOLE FRAME &  
COVER BY EAST JORDAN  
ERGO XL ASSEMBLY  
VENT COVER - 24 - 1"Ø  
OPENINGS (CENTER OVER  
VALVE OPERATOR NUT)

36" MANHOLE FRAME &  
COVER BY EAST JORDAN  
ERGO XL ASSEMBLY  
VENT COVER - 24 - 1"Ø  
OPENINGS (CENTER OVER  
VALVE OPERATOR NUT)

(SEE PLANS)



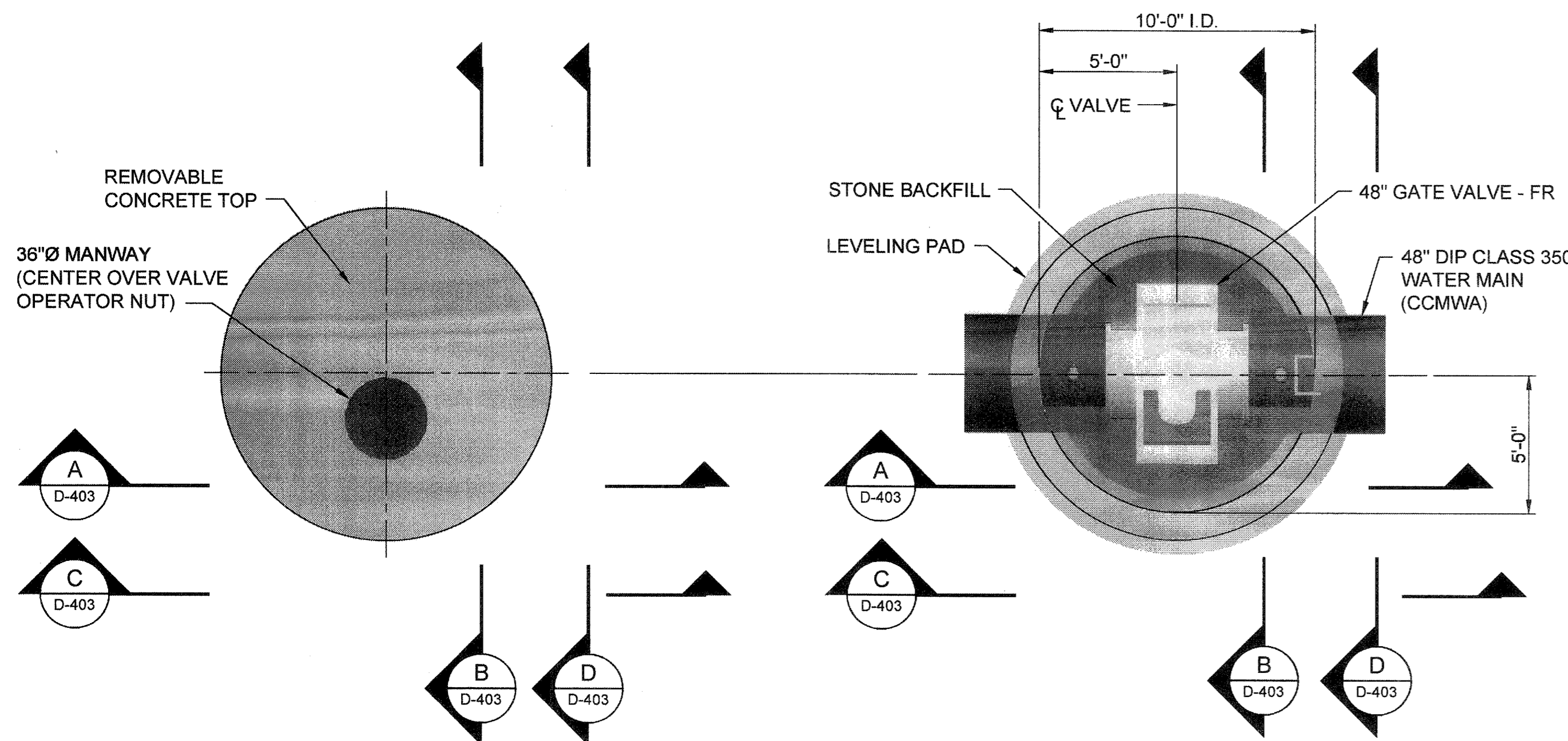
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DATE	REVISION
01/20/2015	
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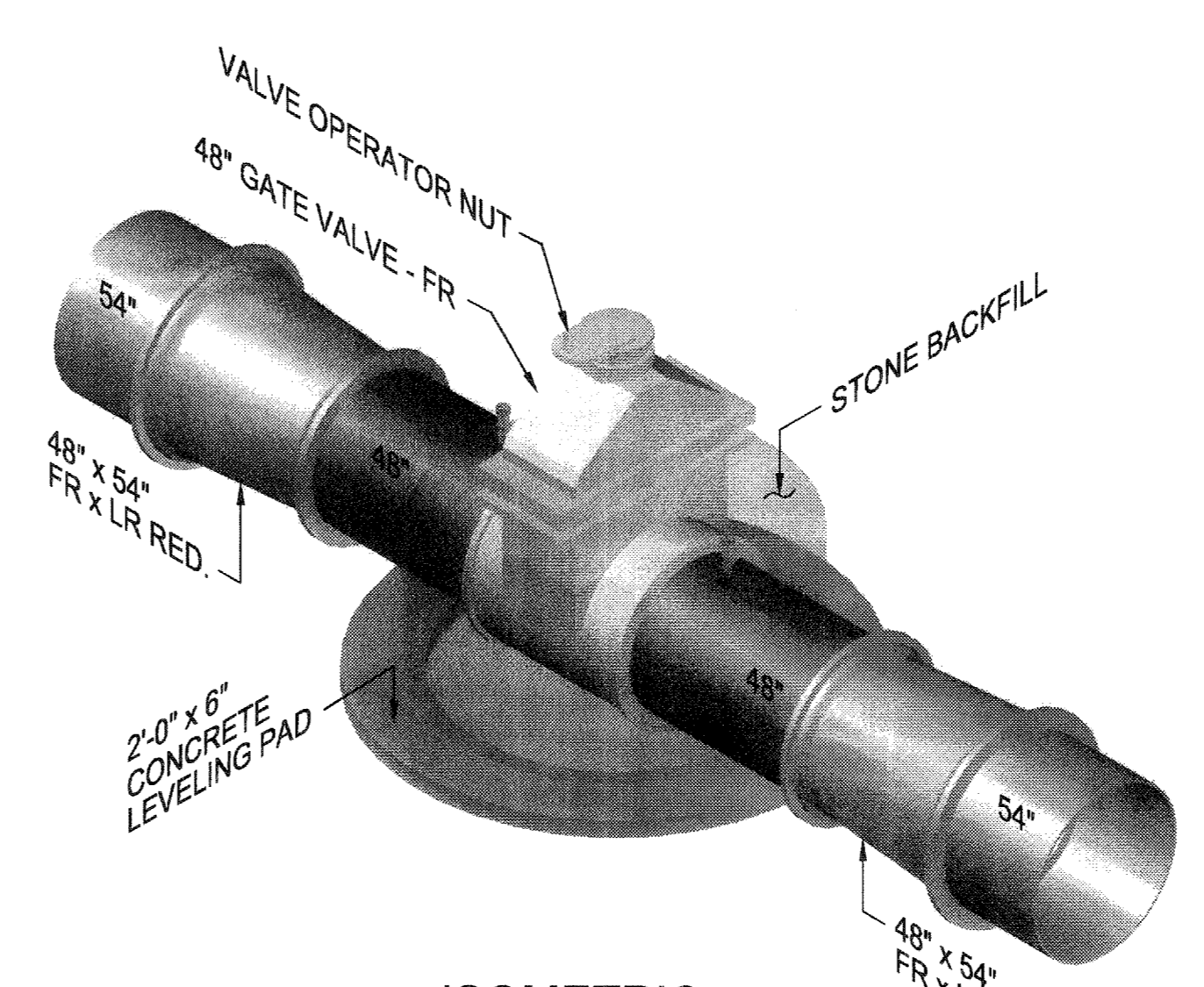
COBB COUNTY-MARIETTA WATER AUTHORITY  
HIGHWAY 41 PHASE IV  
WATER MAIN  
8'-0" I.D. CONCRETE  
DOGHOUSE MANHOLE FOR  
42" GATE VALVE

SHEET No.  
**D-402**  
100032548

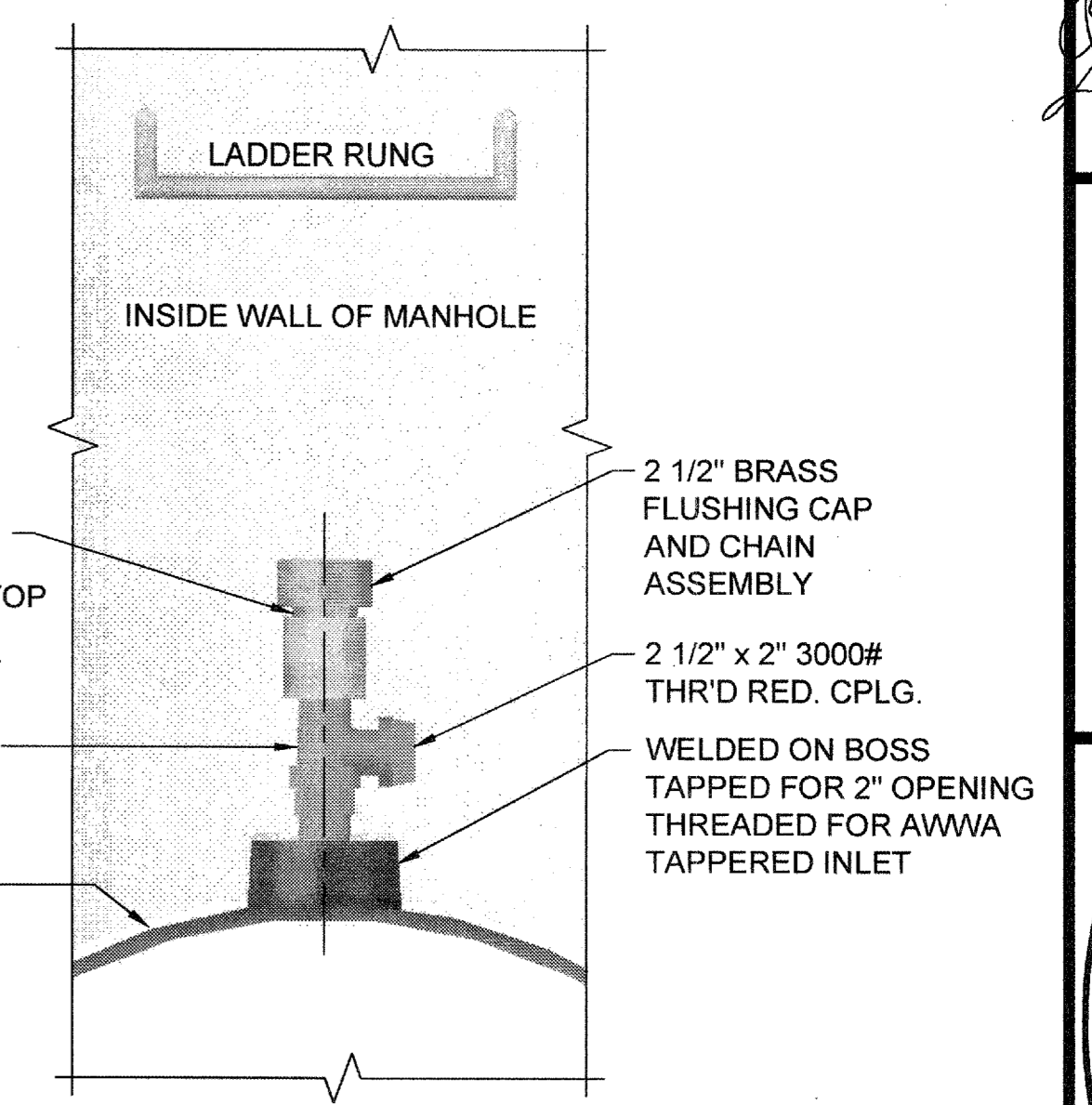


**TOP PLAN**  
SCALE: 1/4"=1'-0"  
(PAVEMENT OMITTED FOR CLARITY)

**INTERMEDIATE PLAN**  
SCALE: 1/4"=1'-0"



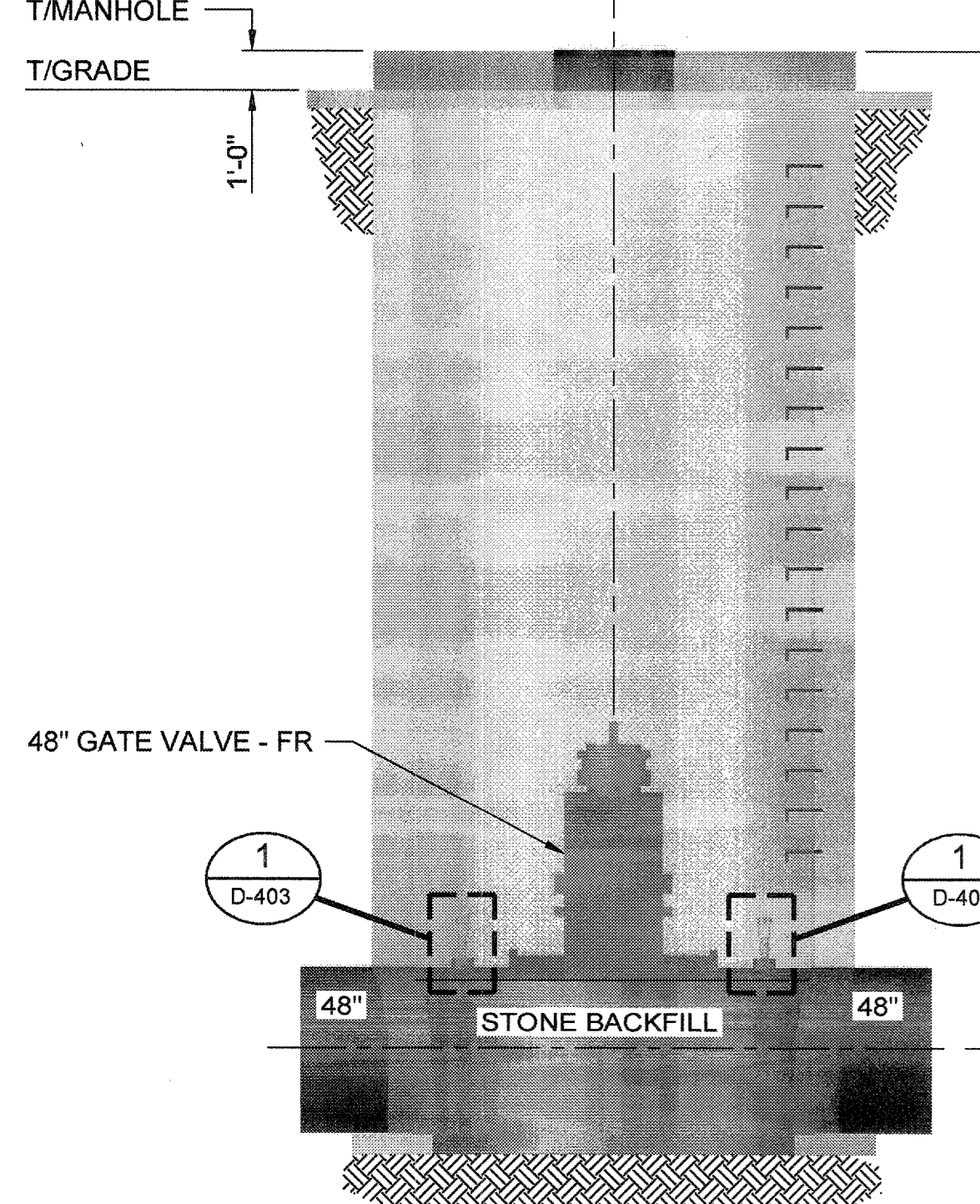
**ISOMETRIC**  
SCALE: NTS  
(WALLS OMITTED FOR CLARITY)



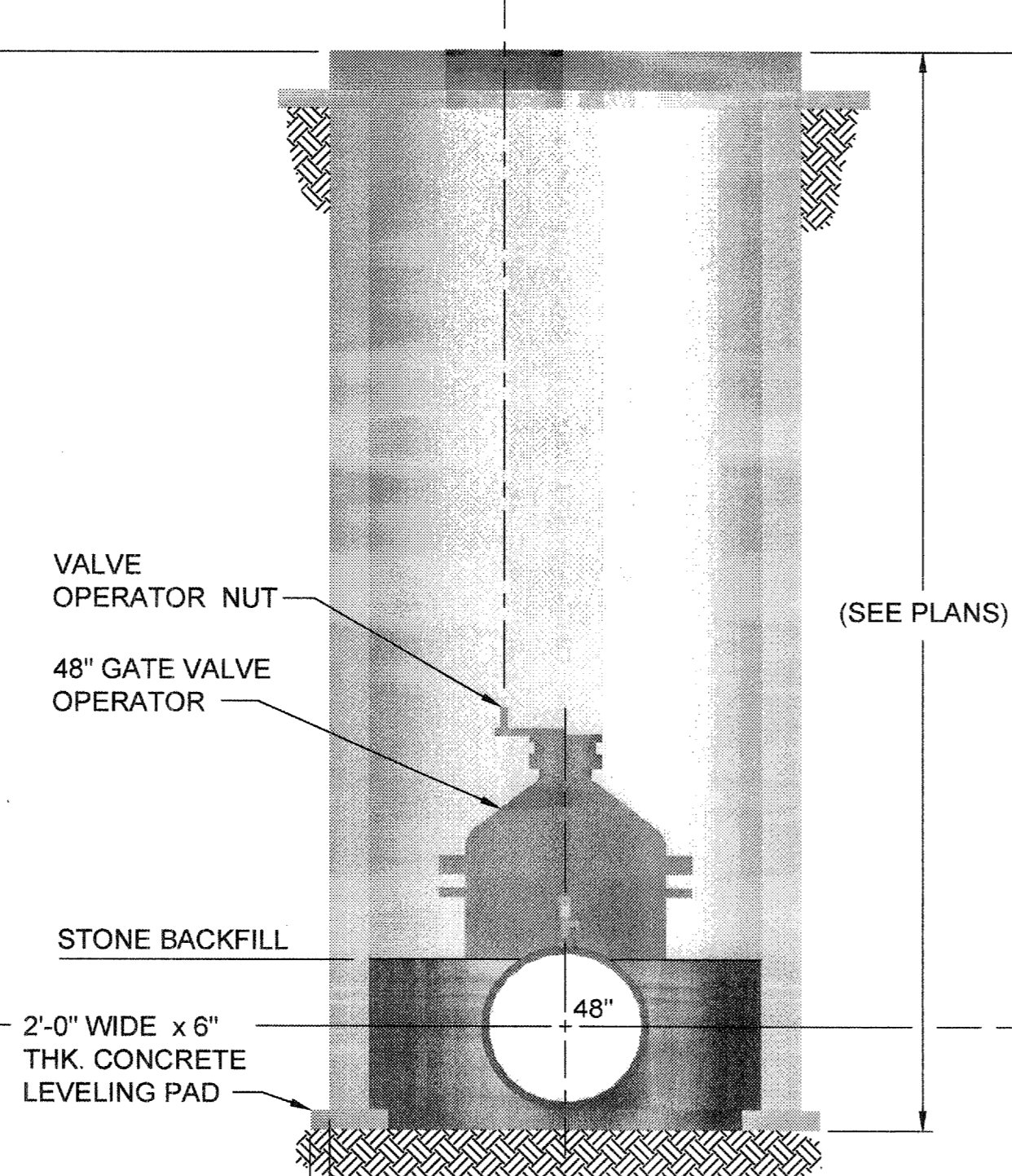
**DETAIL**  
SCALE: 1 1/2"=1'-0"  
1  
D-403

NOTE:  
MANHOLE TOP TO BE FLUSH WITH PAVEMENT WHEN USED IN ROAD.  
T/MANHOLE  
T/GRADE

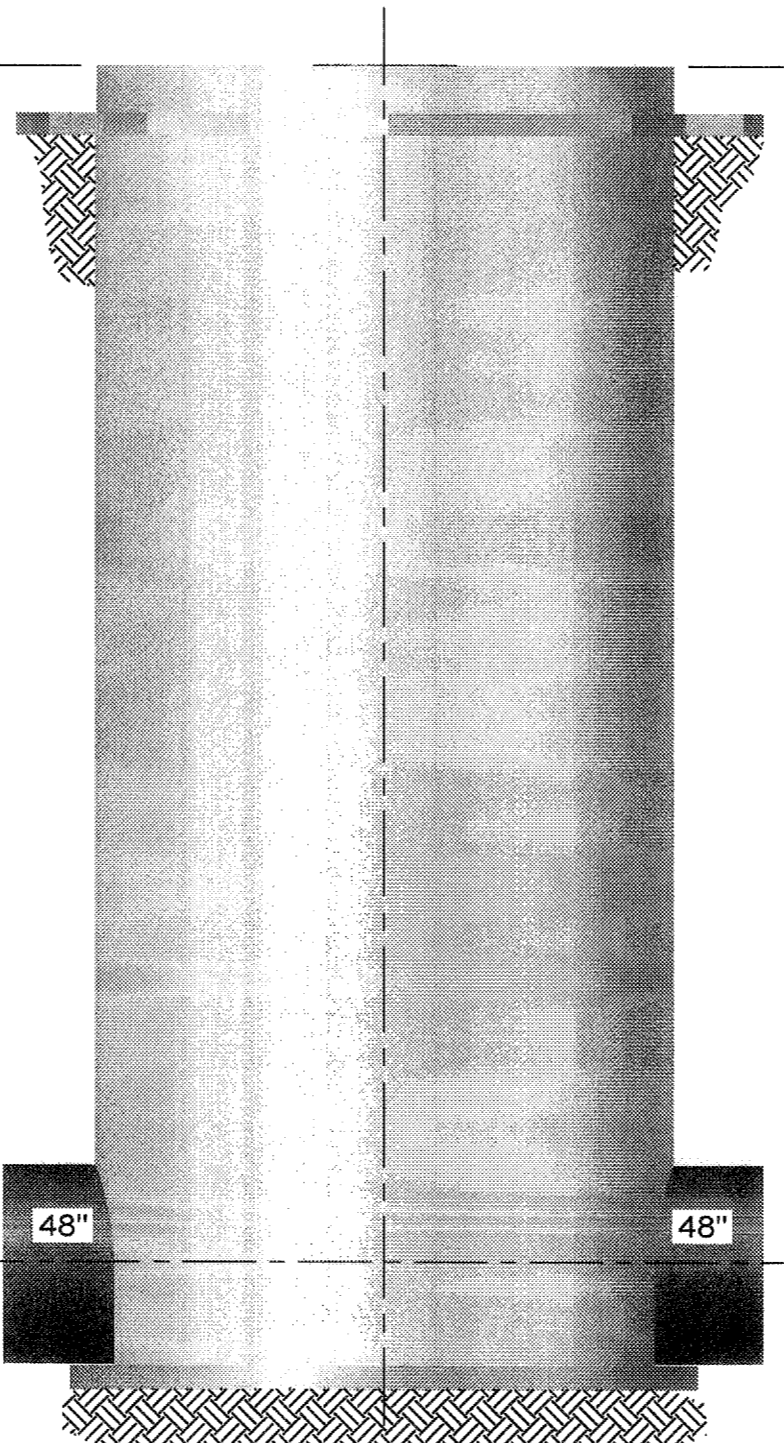
36" MANHOLE FRAME & COVER BY EAST JORDAN ERGO XL ASSEMBLY VENT COVER - 24 - 1"Ø OPENINGS (CENTER OVER VALVE OPERATOR NUT)



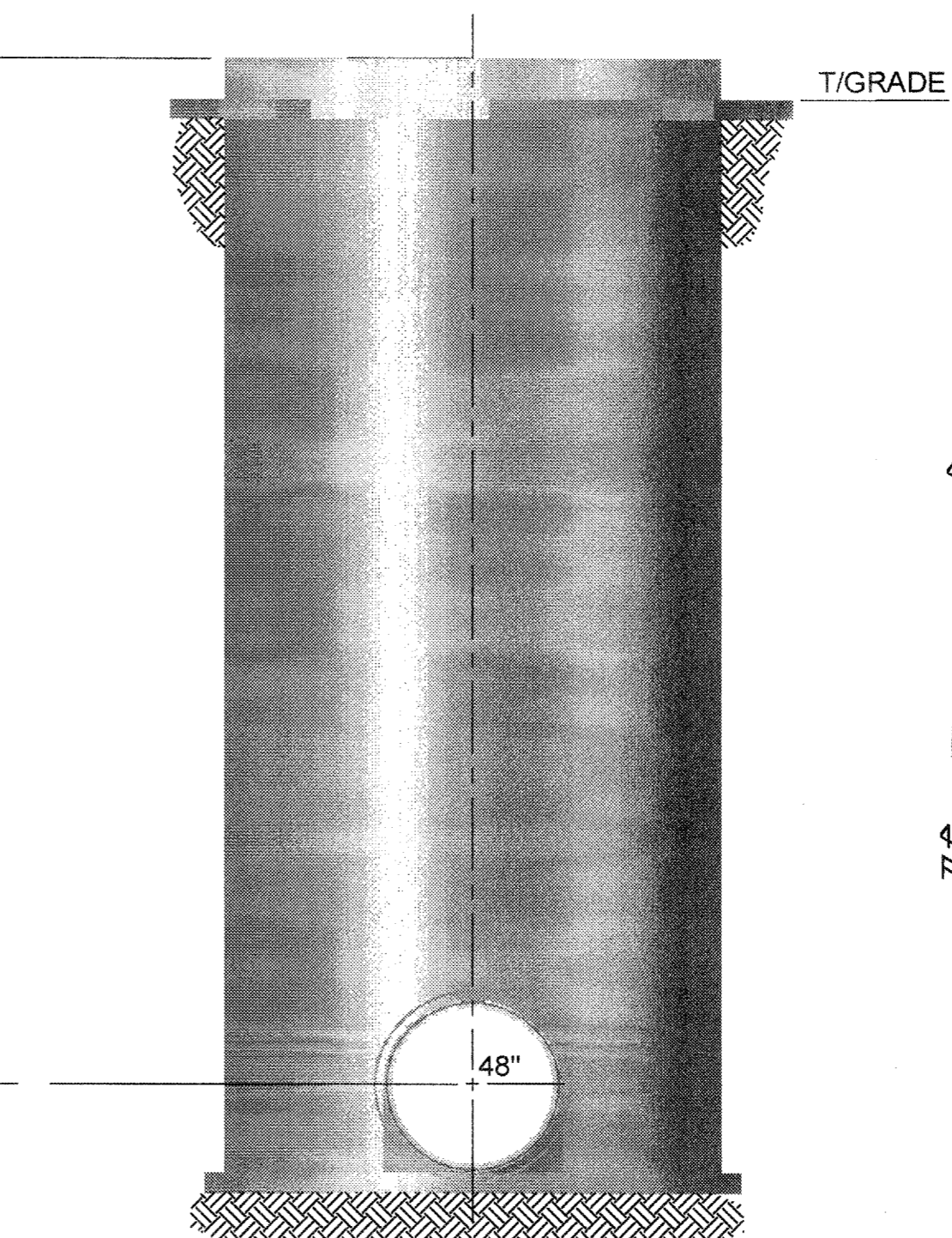
**SECTION A**  
SCALE: 1/4"=1'-0"  
D-403



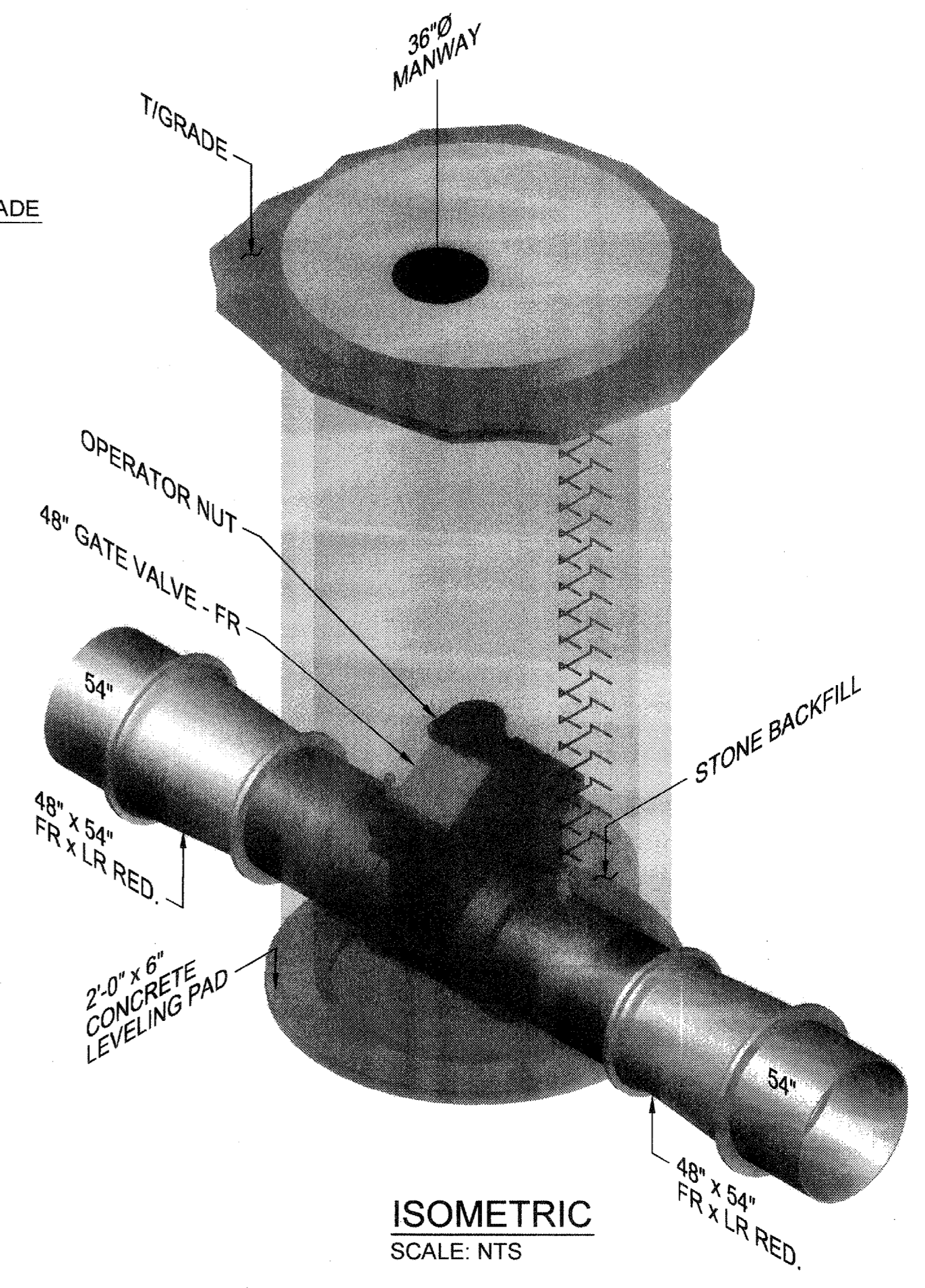
**SECTION B**  
SCALE: 1/4"=1'-0"  
D-403



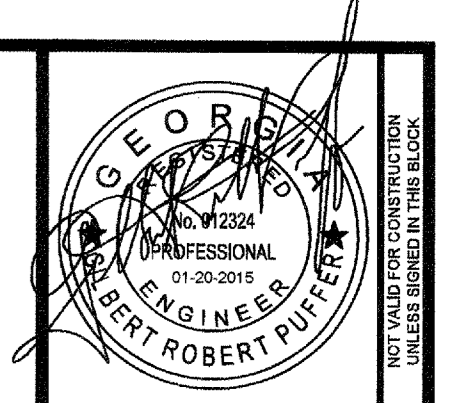
**ELEVATION C**  
SCALE: 1/4"=1'-0"  
D-403



**ELEVATION D**  
SCALE: 1/4"=1'-0"  
D-403



**ISOMETRIC**  
SCALE: NTS



**ATKINS**  
1600 RiverEdge Parkway, NW, Suite 600  
Atlanta, Georgia 30328  
P: 770-893-0280



DATE	REVISION	FOR BID
01/20/2015		

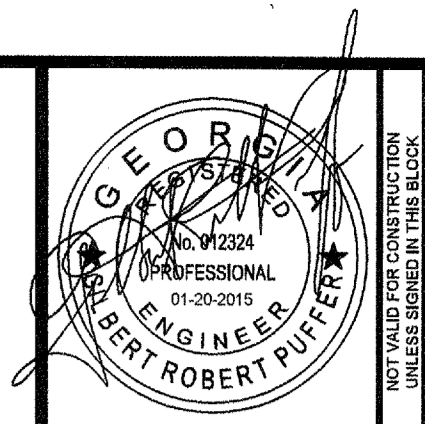
PROJ. No.: 100032548  
DESIGNED BY: GRP  
DRAWN BY: JN  
CHECKED BY: GRP  
APPROVED BY: GRP  
DATE: JAN. 2015  
SCALE: AS SHOWN

COBB COUNTY-MARIETTA WATER AUTHORITY  
HIGHWAY 41 PHASE IV  
WATER MAIN

**10'-0" I.D. CONCRETE DOGHOUSE MANHOLE FOR 48" GATE VALVE**

SHEET No.  
**D-403**  
100032548

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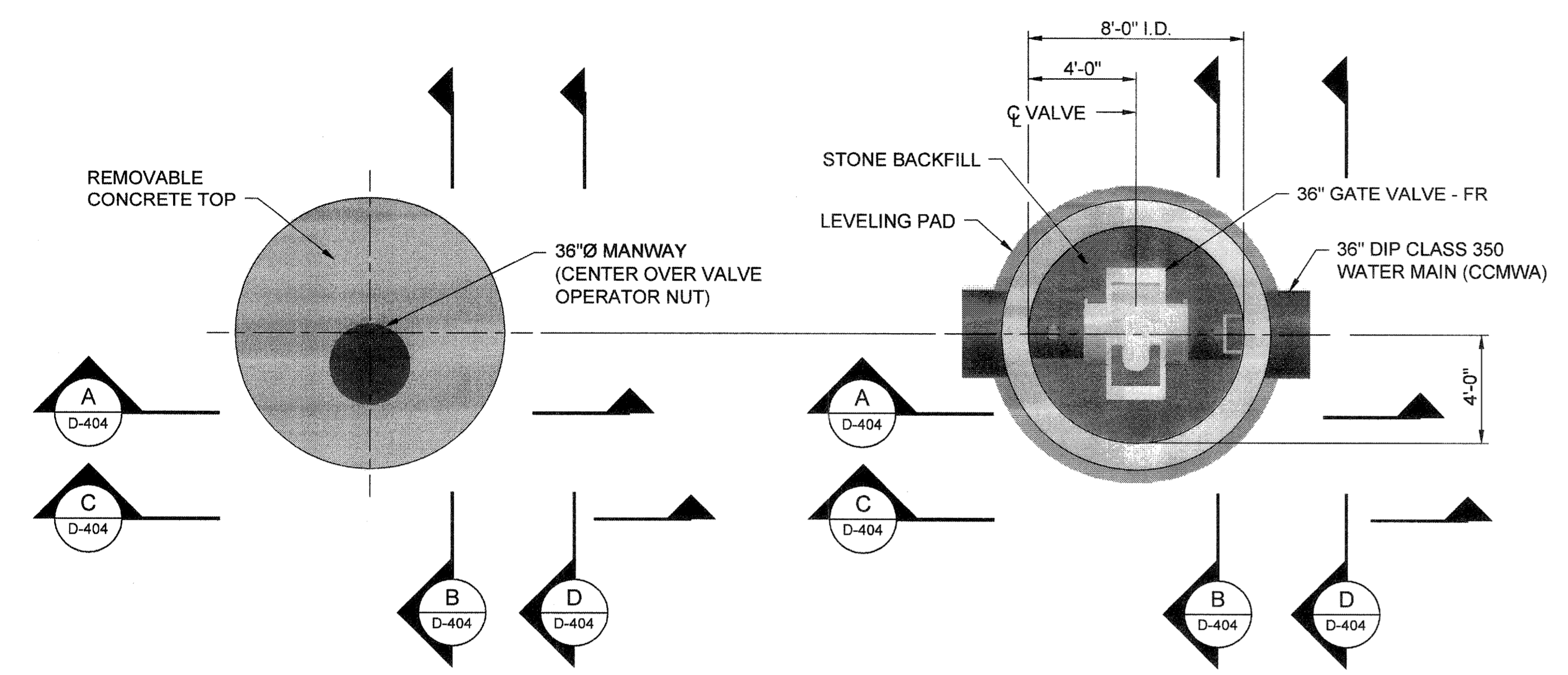
**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-933-0280



DATE	REVISION	FOR BID
01/20/2015		

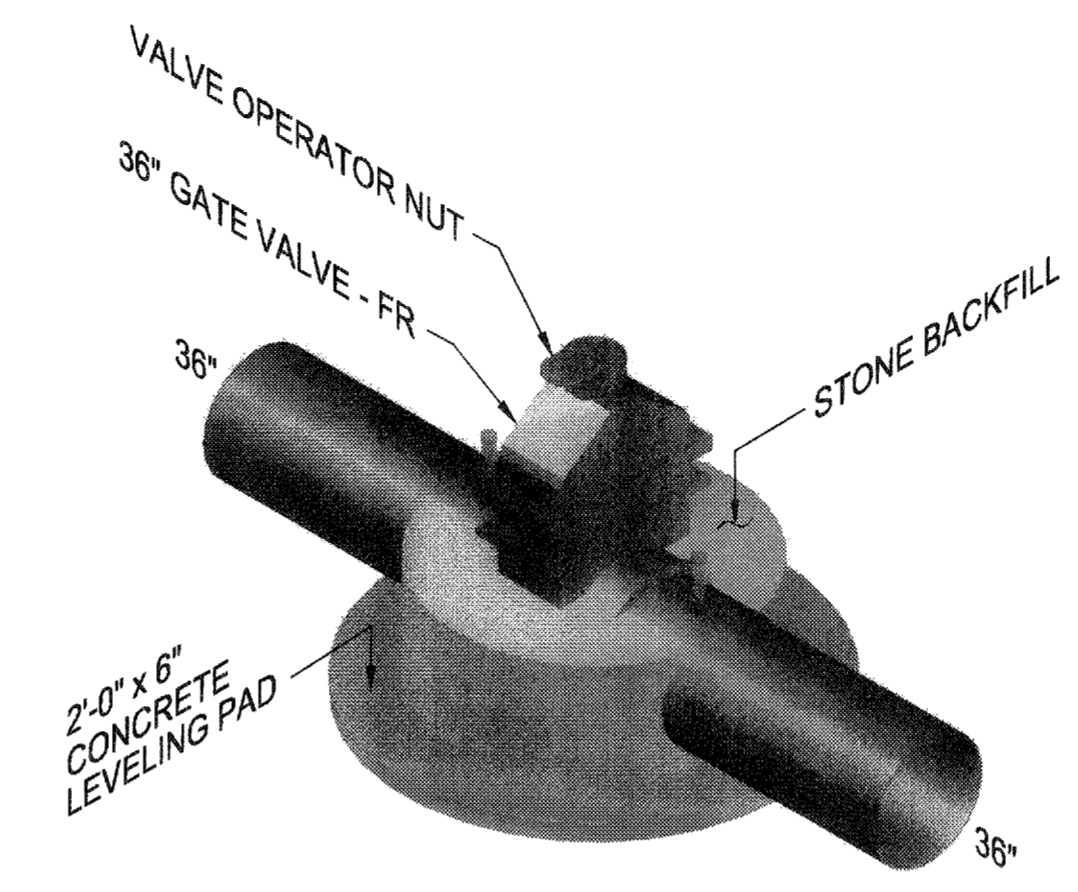
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COBB COUNTY-MARIETTA WATER AUTHORITY HIGHWAY 41 PHASE IV WATER MAIN					

SHEET No.  
**D-404**  
 100032548

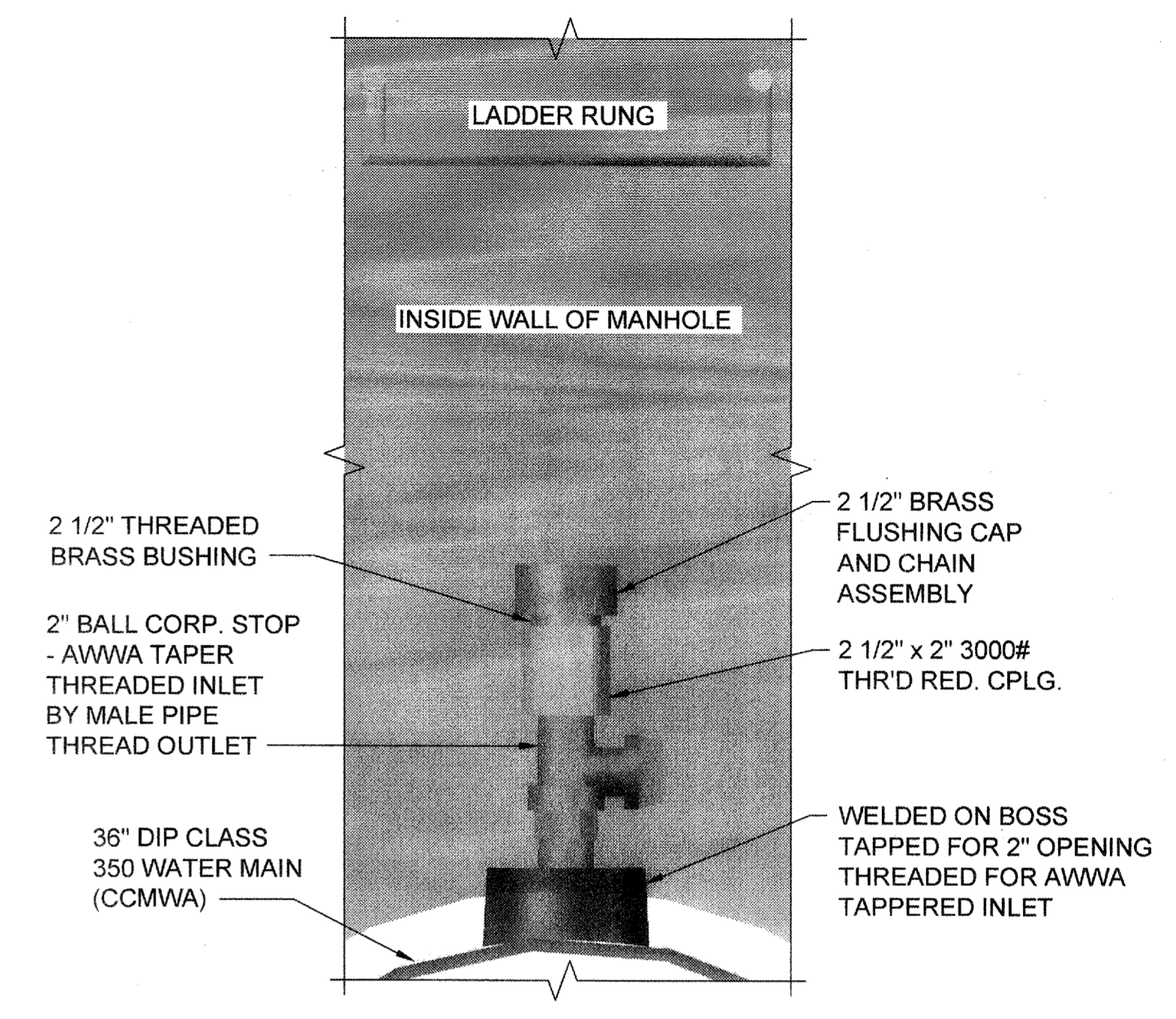


**TOP PLAN**  
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 (PAVEMENT OMITTED FOR CLARITY)

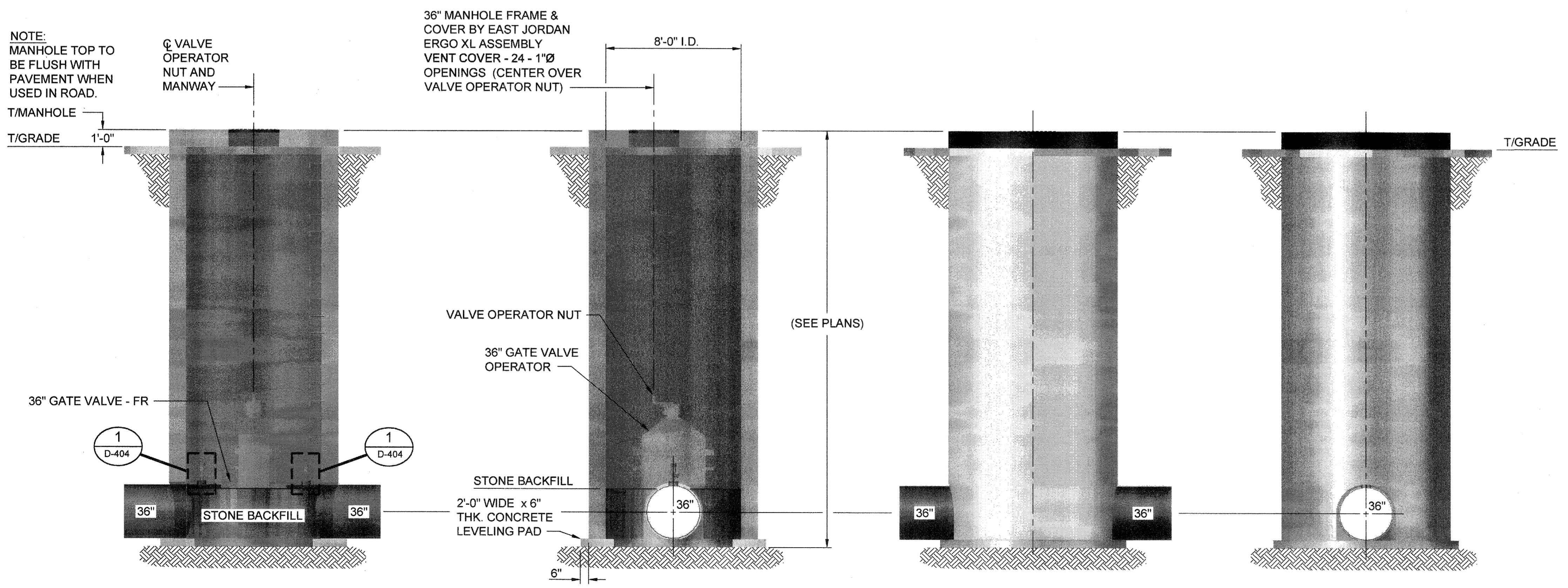
**INTERMEDIATE PLAN**  
 SCALE: 1/4"=1'-0"



**ISOMETRIC**  
 SCALE: NTS  
 (WALLS OMITTED FOR CLARITY)



**DETAIL 1**  
 SCALE: 1 1/2"=1'-0"  
 D-404

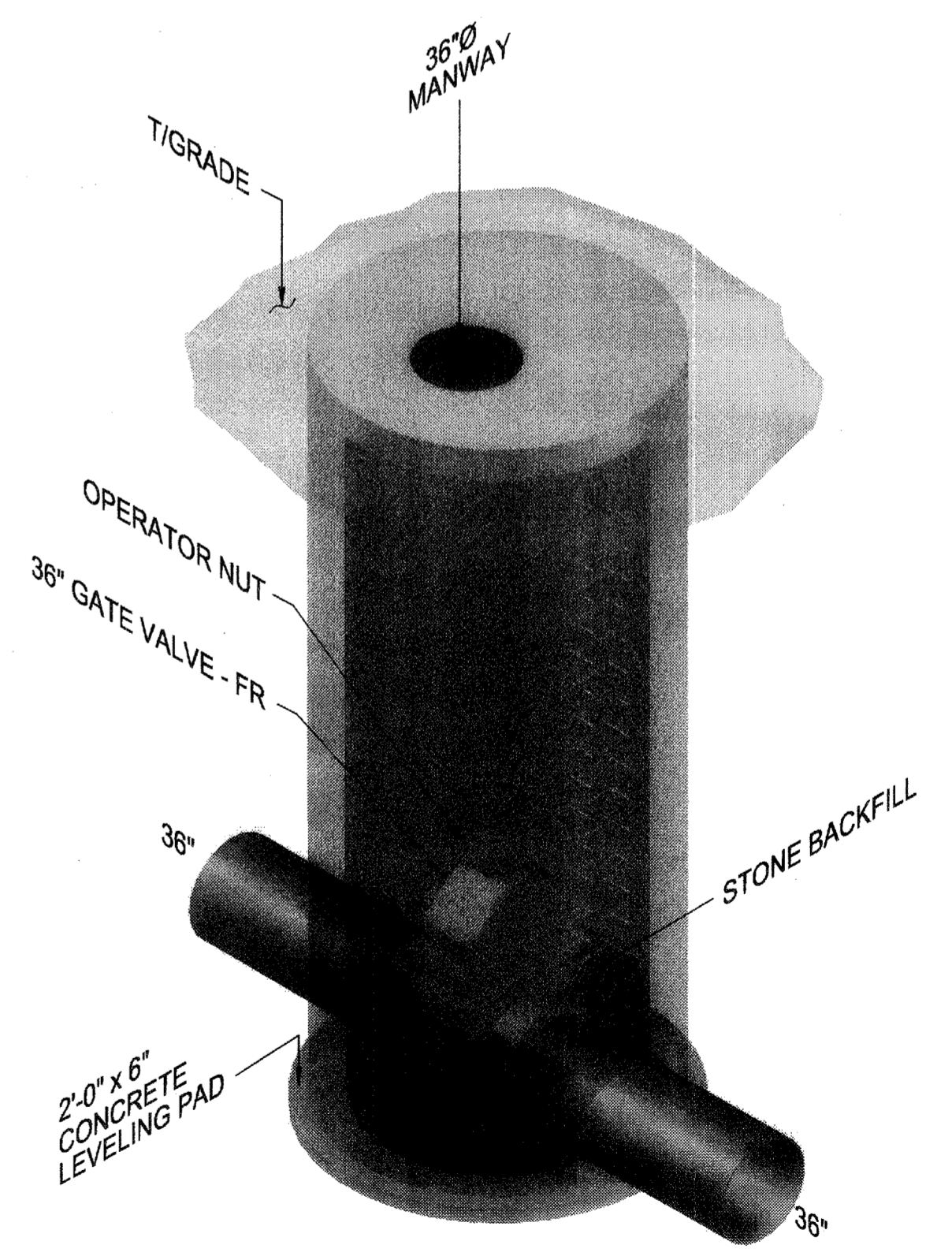


**SECTION A**  
 SCALE: 1/4"=1'-0"  
 D-404

**SECTION B**  
 SCALE: 1/4"=1'-0"  
 D-404

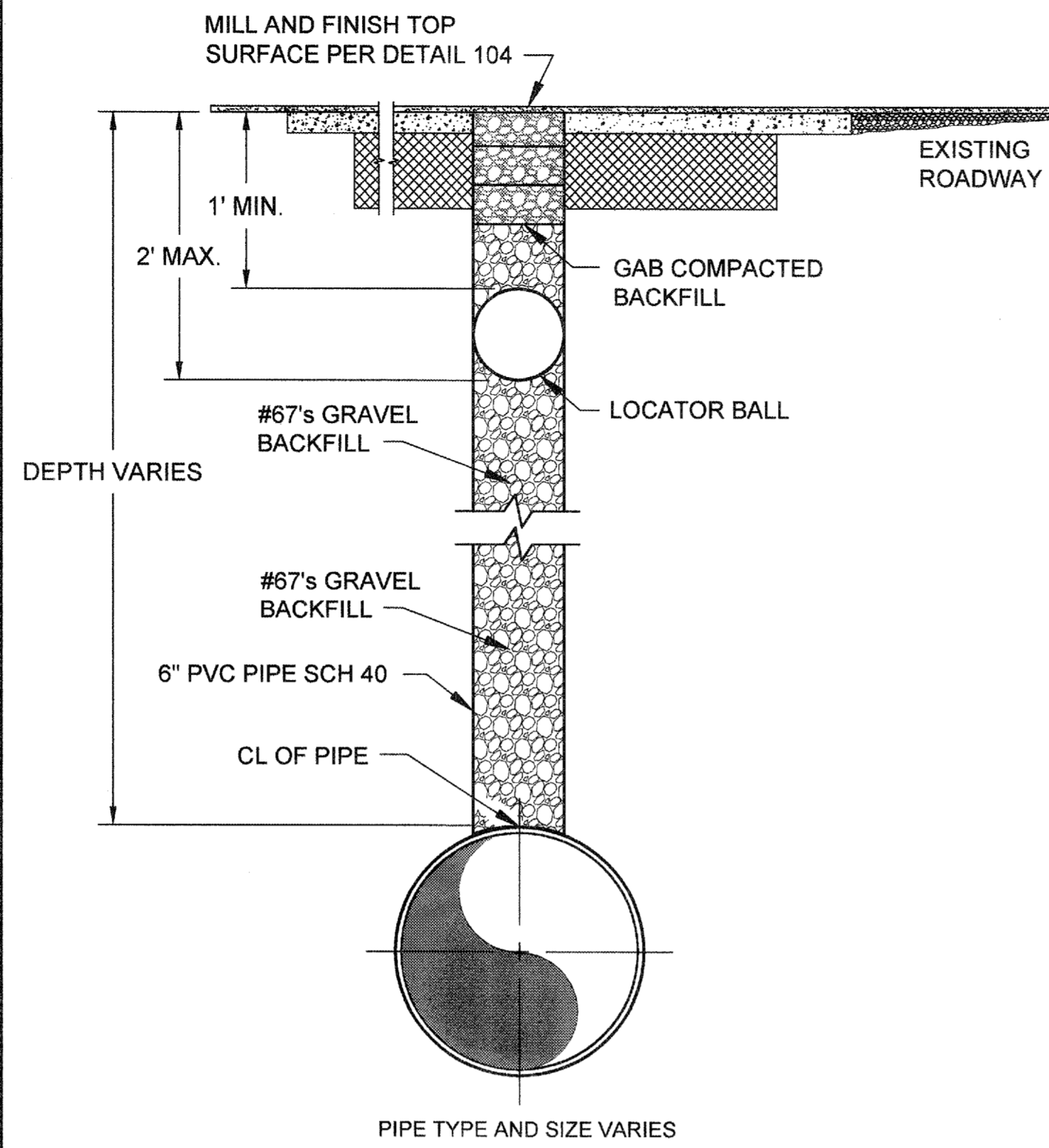
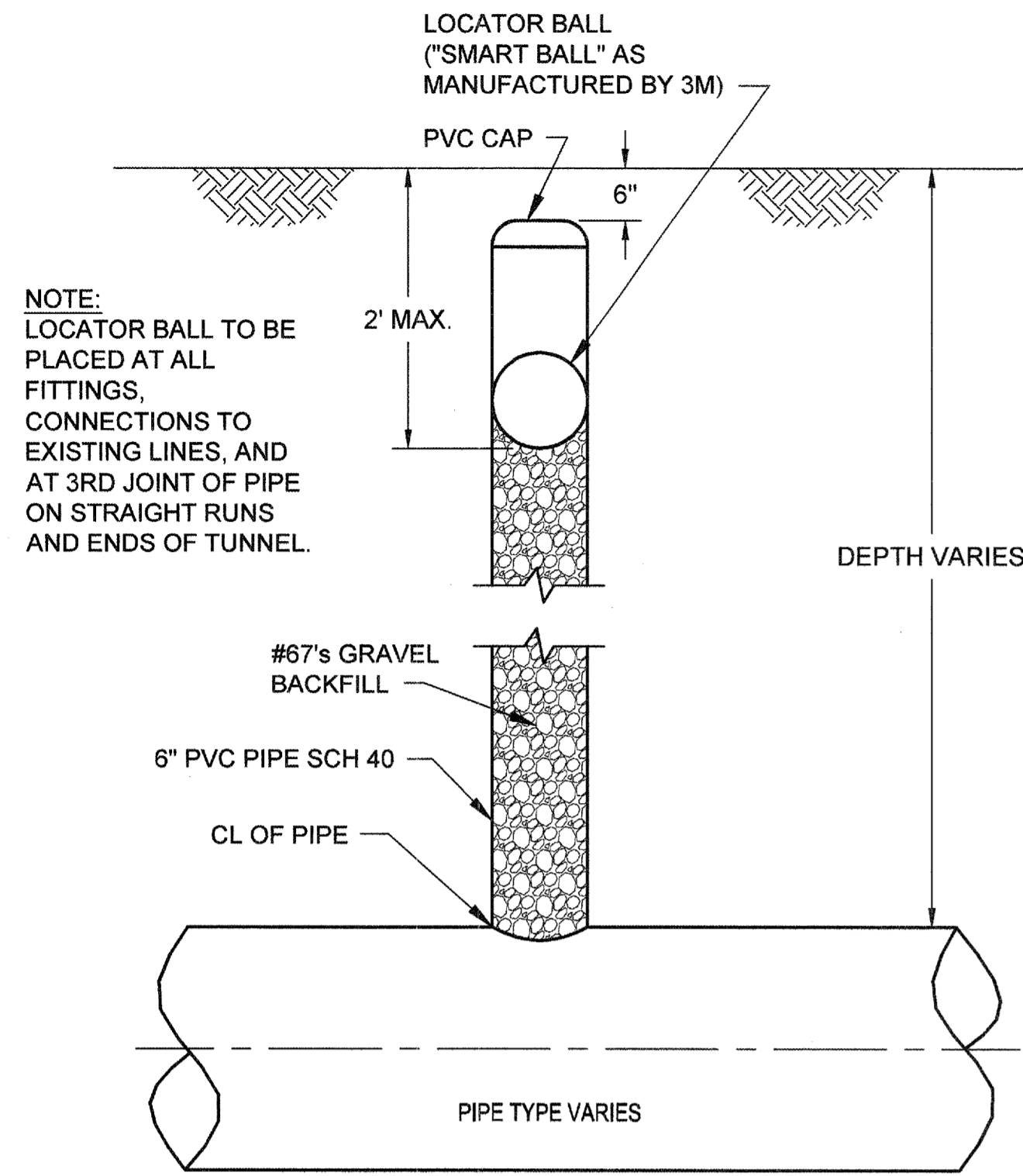
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 SCALE: 1/4"=1'-0"  
 D-404

**ELEVATION D**  
 SCALE: 1/4"=1'-0"  
 D-404



**ISOMETRIC**  
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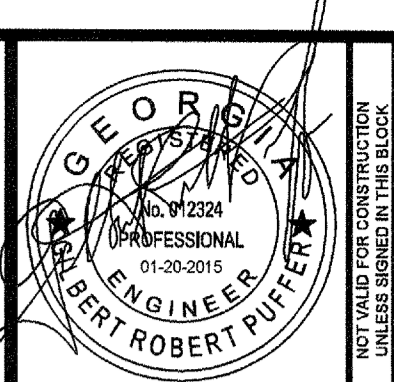


N.T.S.

	Locator Ball PVC After Survey Complete	Date	Revision	CCMWA Detail # 501
		04-29-14	GRP	

N.T.S.

	Locator Ball PVC (Finished)	Date	Revision	CCMWA Detail # 503
		04-29-14	GRP	



**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-833-0280



REVISION	DATE
FOR BID	01/20/2015

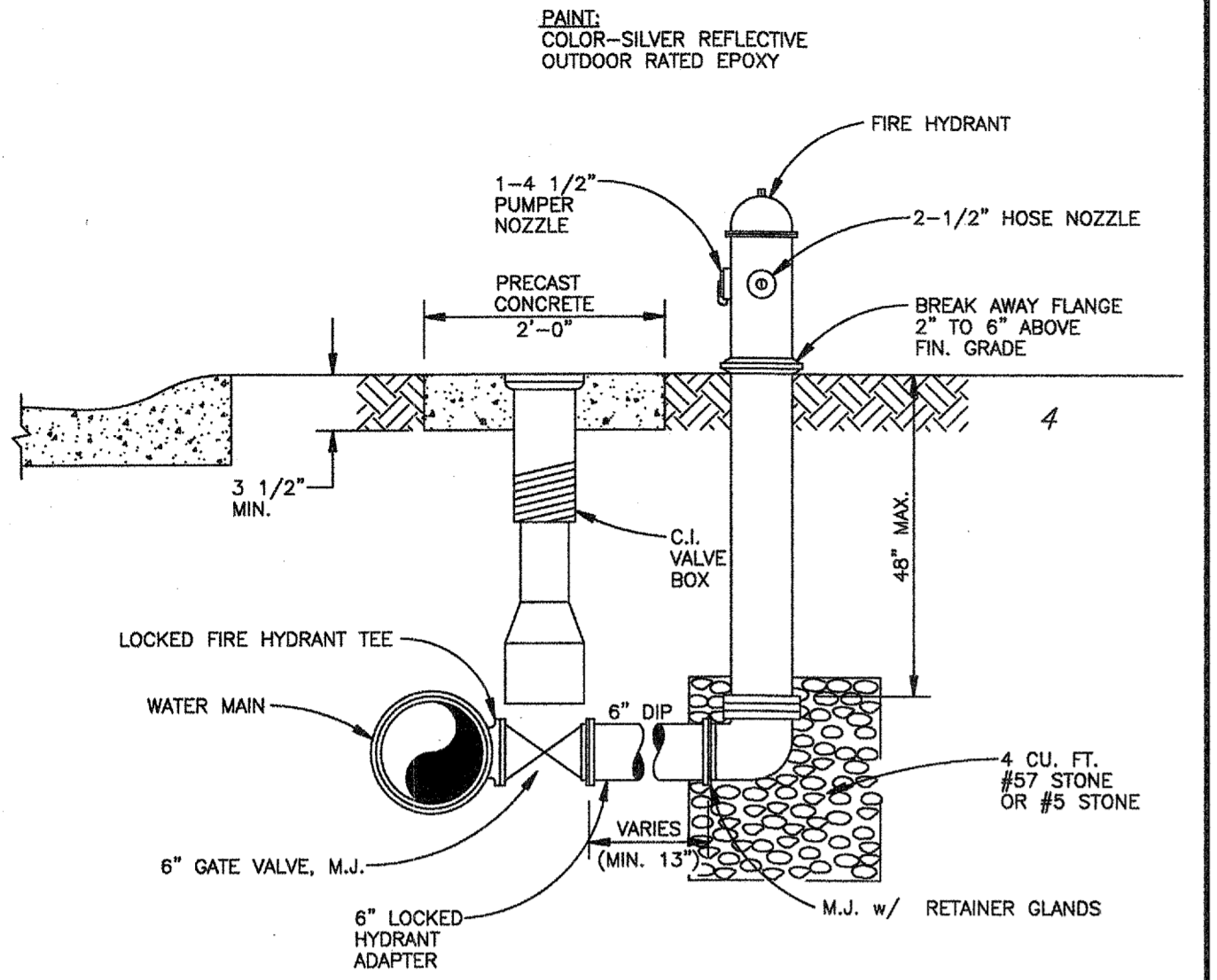
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 DESIGNED BY: GRP  
 DRAWN BY: JN  
 CHECKED BY: GRP  
 APPROVED BY: GRP  
 DATE: JAN. 2015  
 SCALE: AS SHOWN

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN

**MISCELLANEOUS DETAILS**

SHEET No.  
**D-500**  
 100032548

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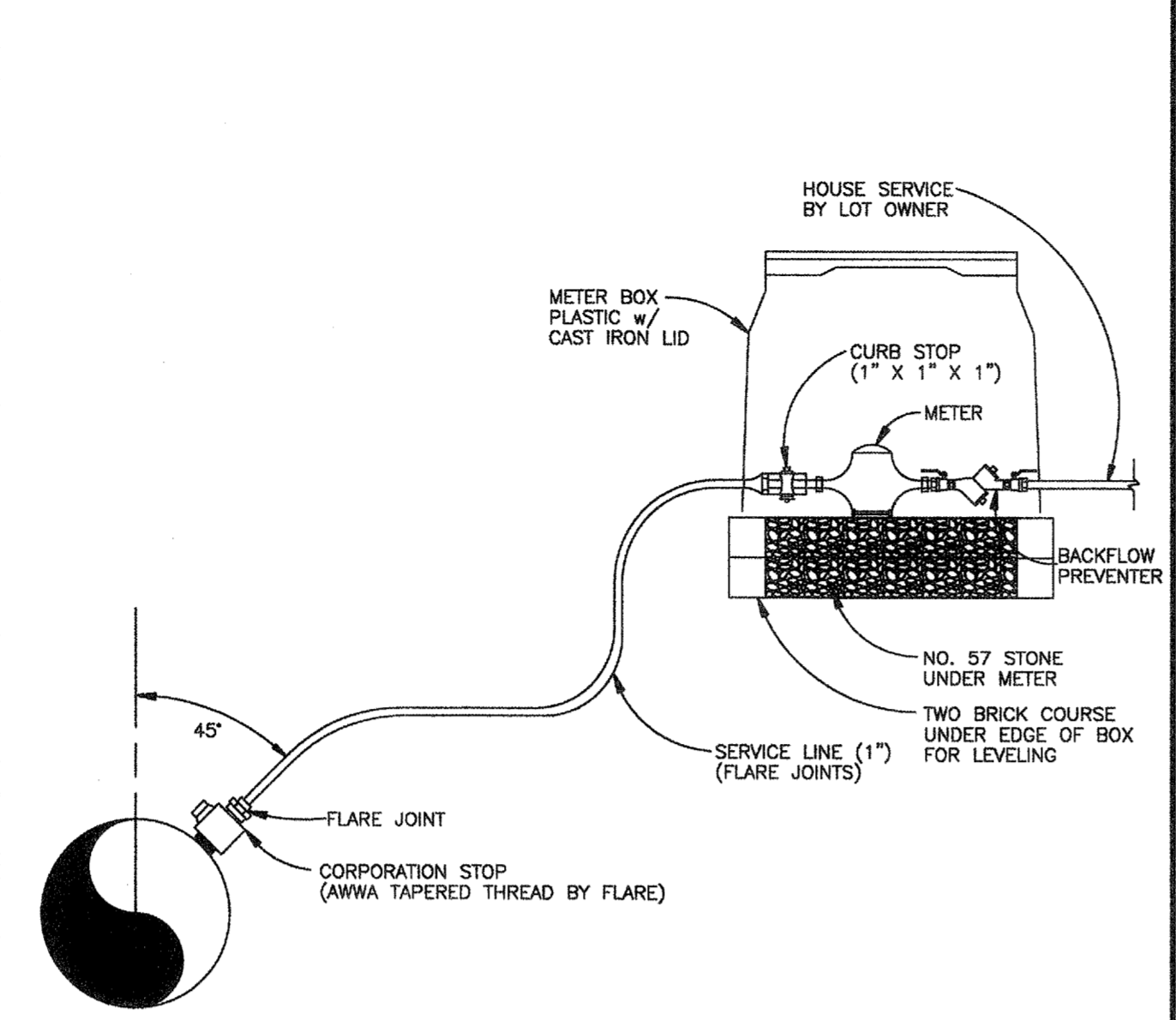


- NOTES:
1. 4 1/2" PUMPER NOZZLE TO FACE STREET
  2. HYDRANT NOT TO BE SET ON STREET SIDE OF WATER MAIN
  3. VALVE BOX TO BE ADJUSTED TO GRADE
  4. CONCRETE COLLAR AROUND VALVE BOX IF NOT IN PAVED AREA
  5. GRAVEL TO BE PLACED AROUND HYDRANT DRAIN, MINIMUM DIMENSIONS 20" x 20" x 20"

TYPICAL FIRE HYDRANT INSTALLATION

	TYPICAL FIRE HYDRANT INSTALLATION	<b>ATKINS</b> 1800 RiverEdge Parkway, NW, Suite 600 Atlanta, Georgia 30328 P: 770-933-0280	Standard No. 401-02
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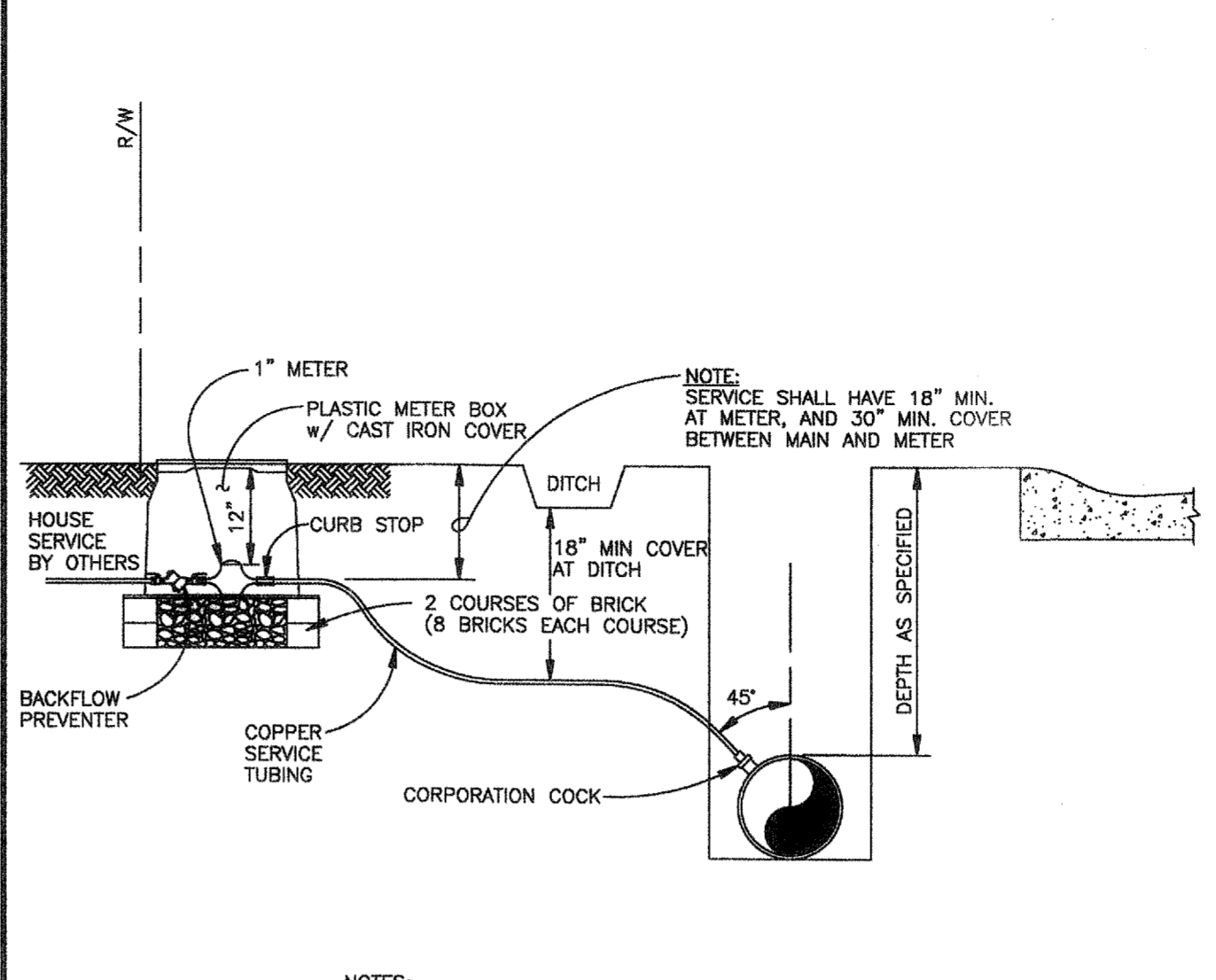
S:\MARIETTA\W\PROPREV\STANDARDS\401-04.dwg



- NOTES:
1. NO POWER TRANSFORMER OR POWER POLE SHALL BE LOCATED ON THE SAME LOT CORNER AS A WATER SERVICE.
  2. USE 1" x 1" x 1" CURB STOP AND A 1" x 3/4" REDUCING BUSHION AND A M.J.P. X METER SWIVEL NUT NIPPLE TO CONNECT TO THE METER.

	RESIDENTIAL WATER METER INSTALLATION	<b>ATKINS</b> 1800 RiverEdge Parkway, NW, Suite 600 Atlanta, Georgia 30328 P: 770-933-0280	Standard No. 401-04
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S:\MARIETTA\W\PROPREV\STANDARDS\401-05.1.dwg

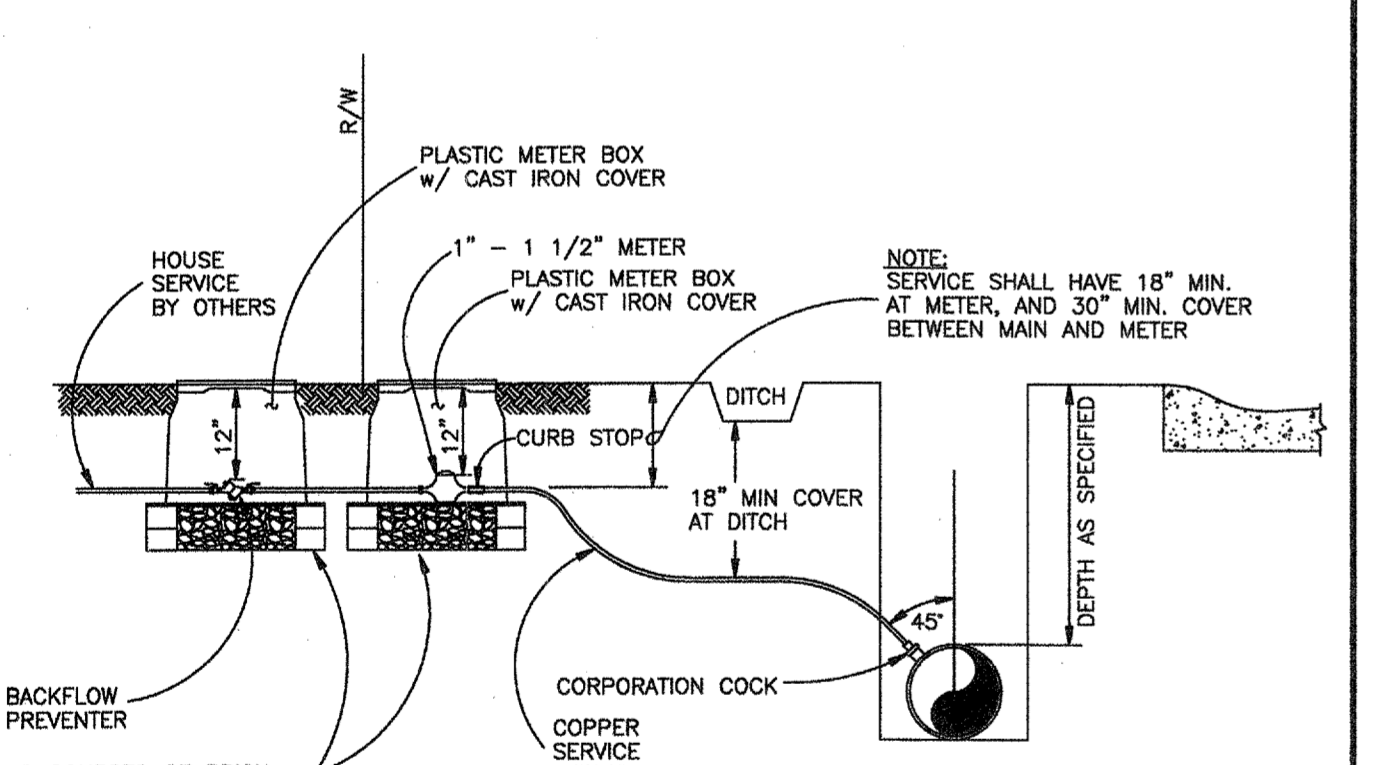


- NOTES:
1. SERVICE LINE SHALL BE 1" FROM MAIN.
  2. USE ALL FLARE JOINTS.
  3. INSTALLATION SHALL ALLOW ADEQUATE ROOM TO REMOVE AND/OR REPAIR METER.
  4. FOR 1" AND LARGER METERS, THE BACKFLOW PREVENTER SHALL BE SEPARATE FROM THE METER.
  5. METER BOX SHALL BE APPROXIMATELY 18" x 24".
  6. THIS DETAIL AUTHORIZED FOR USE FOR INSTALLATION OF 1" RESIDENTIAL IRRIGATION METERS.

1" RESIDENTIAL METER INSTALLATION

	1" RESIDENTIAL METER INSTALLATION	<b>ATKINS</b> 1800 RiverEdge Parkway, NW, Suite 600 Atlanta, Georgia 30328 P: 770-933-0280	Standard No. 401-05.1
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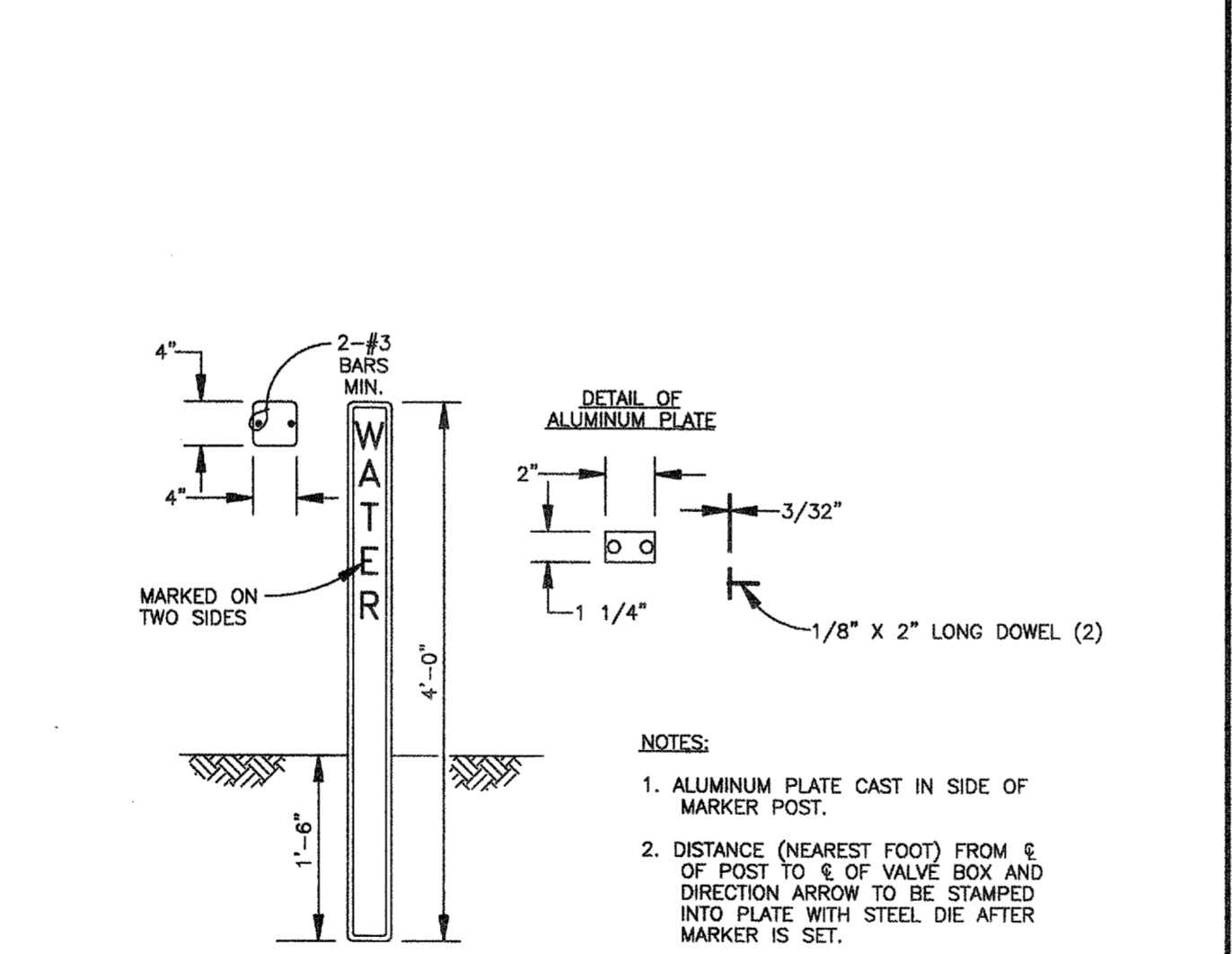


- NOTES:
1. SERVICE LINE SHALL BE SAME SIZE AS METER FROM THE MAIN.
  2. USE ALL FLARE JOINTS.
  3. INSTALLATION SHALL ALLOW ADEQUATE ROOM TO REMOVE AND/OR REPAIR METER.
  4. FOR 1" AND LARGER METERS, THE BACKFLOW PREVENTER SHALL BE SEPARATE FROM THE METER.
  5. THE BACKFLOW PREVENTER SHALL BE INSTALLED IN A SEPARATE BOX.
  6. BOTH METER BOXES SHALL BE APPROXIMATELY 24" x 36".
  7. THIS DETAIL AUTHORIZED FOR USE FOR INSTALLATION OF 1" - 1 1/2" COMMERCIAL IRRIGATION METERS.

1" - 1 1/2" COMMERCIAL METER INSTALLATION

	1" - 1 1/2" COMMERCIAL METER INSTALLATION	<b>ATKINS</b> 1800 RiverEdge Parkway, NW, Suite 600 Atlanta, Georgia 30328 P: 770-933-0280	Standard No. 401-05.2
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S:\MARIETTA\W\PROPREV\STANDARDS\401-12.dwg

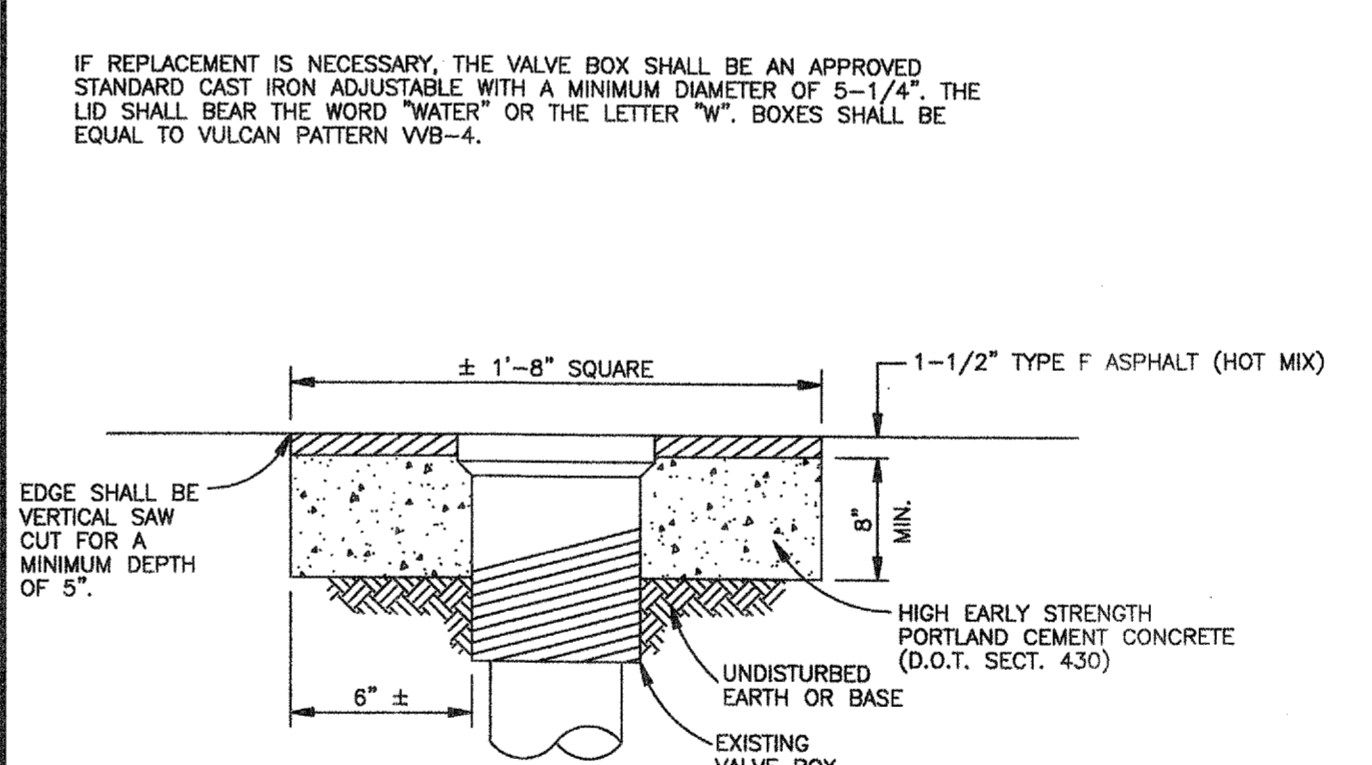


- NOTES:
1. ALUMINUM PLATE CAST IN SIDE OF MARKER POST.
  2. DISTANCE (NEAREST FOOT) FROM  $\phi$  OF POST TO  $\phi$  OF VALVE BOX AND DIRECTION ARROW TO BE STAMPED INTO PLATE WITH STEEL DIE AFTER MARKER IS SET.

DETAIL OF CONCRETE VALVE MARKER

	CONCRETE VALVE MARKER	<b>ATKINS</b> 1800 RiverEdge Parkway, NW, Suite 600 Atlanta, Georgia 30328 P: 770-933-0280	Standard No. 401-12
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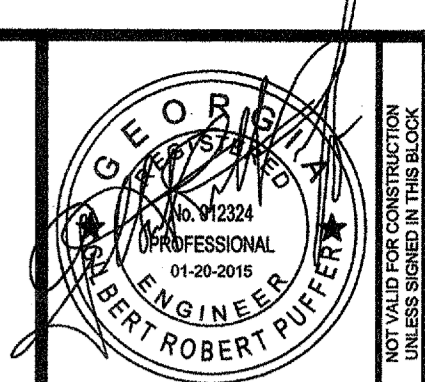
S:\MARIETTA\W\PROPREV\STANDARDS\401-14.dwg



- NOTES:
1. PORTLAND CONCRETE FOR COLLAR SHALL BE MIN. OF 8" THICK OR FROM 1-1/2" BELOW THE EXIST. PAVEMENT TO UNDISTURBED EARTH, WHICHEVER IS GREATER.
  2. THE CONCRETE SHALL BE LEFT WITH A RAKED FINISH TO PROVIDE A ROUGH SURFACE FOR THE ASPHALT TO BOND TO BITUMINOUS TACK AND ASPHALT SHALL BE PLACED PER CURRENT D.O.T. SPECIFICATIONS.
  3. BEFORE WORKING IN AN AREA, THE CONTRACTOR SHALL NOTIFY THE B.L.W.

WATER VALVE BOX GRADE ADJUSTMENT

	WATER VALVE BOX GRADE ADJUSTMENT	<b>ATKINS</b> 1800 RiverEdge Parkway, NW, Suite 600 Atlanta, Georgia 30328 P: 770-933-0280	Standard No. 401-14
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**ATKINS**  
1800 RiverEdge Parkway, NW, Suite 600  
Atlanta, Georgia 30328  
P: 770-933-0280



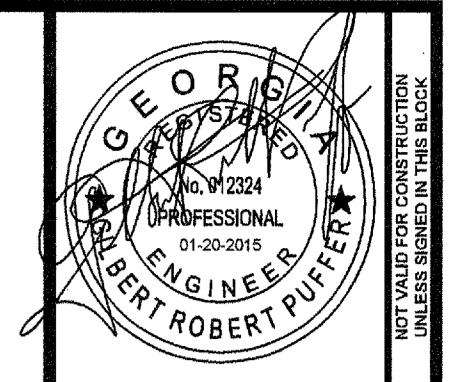
DATE	01/20/2015
REVISION	
FOR BID	

PROJ. No.:	100032548
DESIGNED BY:	GRP
DRAWN BY:	JN
CHECKED BY:	GRP
APPROVED BY:	GRP
DATE:	JAN. 2015
SCALE:	AS SHOWN

COBB COUNTY-MARIETTA WATER AUTHORITY  
HIGHWAY 41 PHASE IV  
WATER MAIN

**MISCELLANEOUS DETAILS**

SHEET No.  
**D-600**  
100032548



**ATKINS**  
 1800 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-853-0280



DATE	01/20/2015
REVISION	
FOR BID	
PROJ. No.	100032548
DESIGNED BY:	GRP
DRAWN BY:	JN
CHECKED BY:	GRP
APPROVED BY:	GRP
DATE:	JAN, 2015
SCALE:	AS SHOWN

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN

DEPARTMENT OF TRANSPORTATION  
 STATE OF GEORGIA

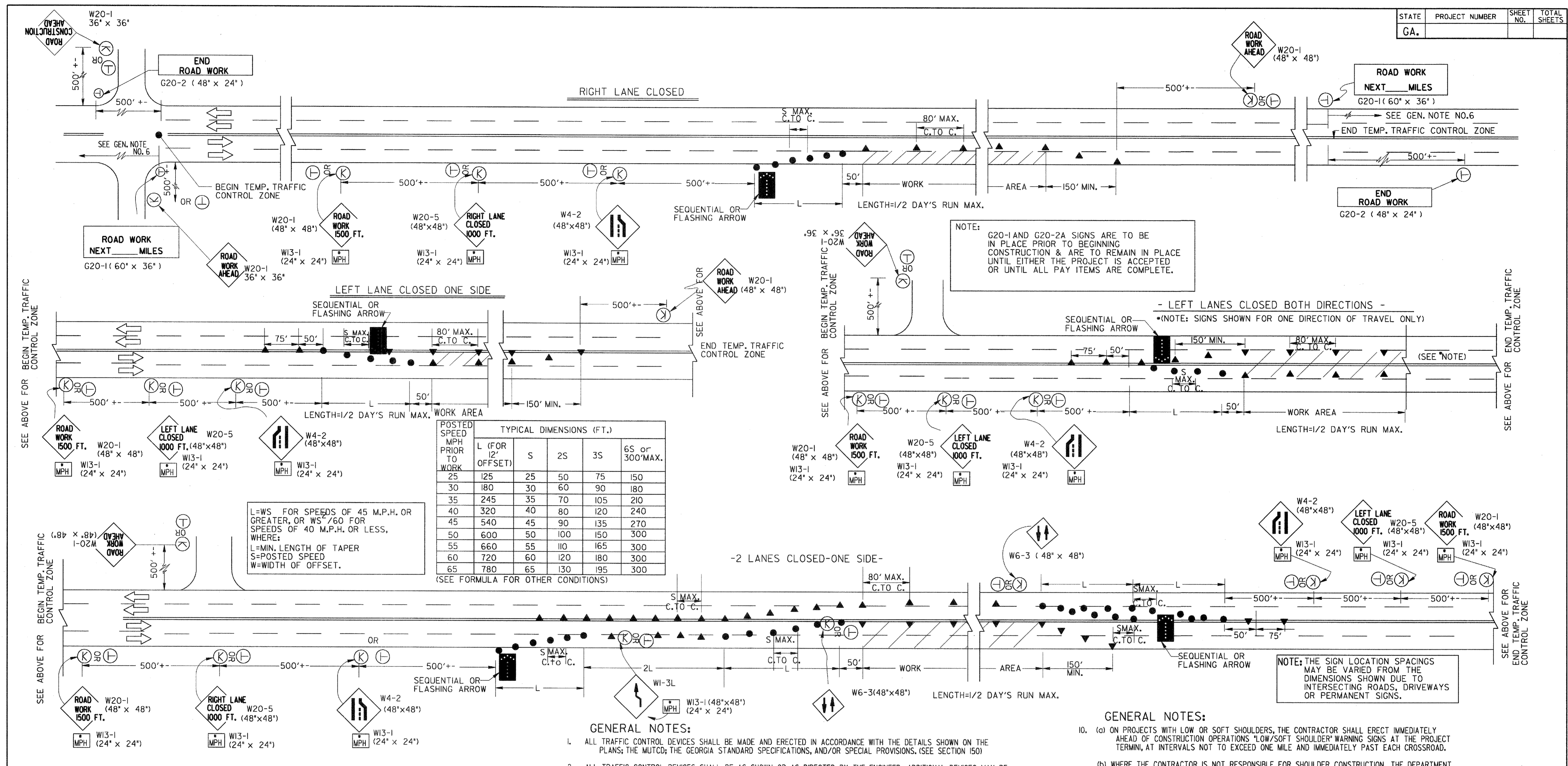
STANDARD  
 TRAFFIC CONTROL DETAIL  
 FOR LANE CLOSURE ON MULTI-LANE  
 UNDIVIDED HIGHWAY

NO SCALE REV. & REDR. JULY, 1999

DES. (SUBMITTED) *[Signature]*  
 STATE ROAD & AIRPORT DESIGN ENGINEER  
 TR. (APPROVED) *[Signature]*  
 CHIEF ENGINEER

NUMBER  
 9107

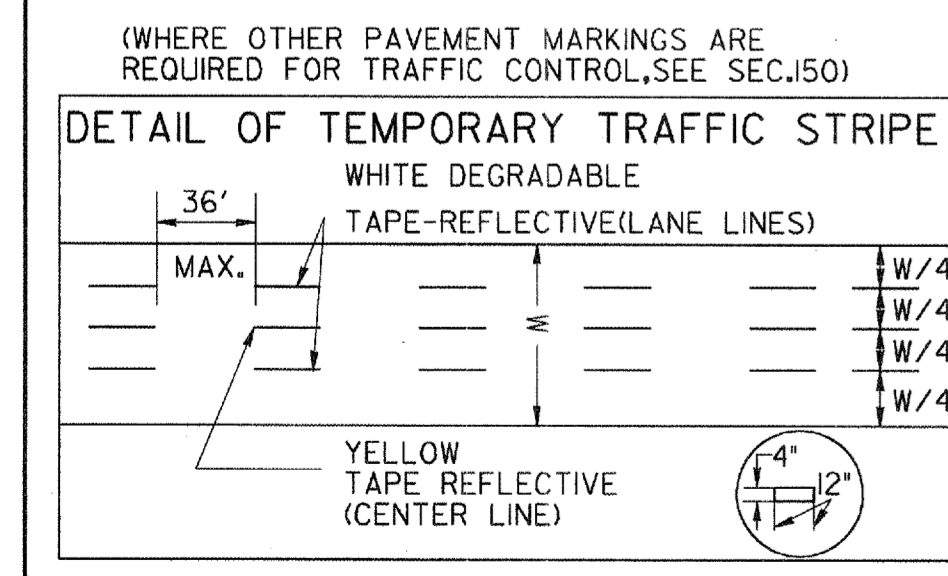
SHEET No.  
**TC-1**  
 100032548



FOR LOCATIONS ON THIS PROJECT INVOLVING ADDED TURN LANES, THE DISTRICT TRAFFIC OPERATIONS OFFICE WILL FURNISH A SCHEMATIC DRAWING OF THE TEMPORARY PAVEMENT MARKINGS AT THE PRE-CONSTRUCTION CONFERENCE.

WHEN TEMPORARY OPERATING SPEEDS ARE LESS THAN THE POSTED SPEED LIMIT, THE ADVISORY SPEED PLATES (W13-1) SHALL BE USED IN 10 M.P.H. INCREMENTS, UNTIL THE SPEED IS REDUCED TO THE TEMPORARY OPERATING SPEED.

- STANDARD LEGEND**
- STRIPED DRUM
  - TEMPORARY POST MOUNTED SIGN (OFF SHOULDER) --FOR LONG TERM LANE CLOSURE SUCH AS STATIONARY OPERATIONS, BRIDGE WIDENING PROJECTS ETC. - (7' MOUNT HEIGHT)
  - PORTABLE MOUNTED SIGN (ON SHOULDER) --FOR SHORT TERM LANE CLOSURE SUCH AS MOVING OPERATIONS, RESURFACING PROJECTS, ETC. (SEE GENERAL NOTE, NO. 3)
  - TRAFFIC CONE - 28" MIN. (DAYTIME USE ONLY)
  - SEQUENTIAL OR FLASHING ARROW
  - WORK AREA



# COBB COUNTY-MARIETTA WATER AUTHORITY

## HIGHWAY 41 WATER MAIN, PHASE IV

COBB COUNTY-MARIETTA WATER AUTHORITY PROJECT No. 41 1S 2701

### EROSION CONTROL

### BOARD MEMBERS

A. MAX BACON  
CHAIRMAN

CHARLIE N. CROWDER  
SECRETARY

DAVID A. AUSTIN  
VICE CHAIRMAN

GRIFFIN L. CHALFANT

TIMOTHY D. LEE

T. DANIEL BUYERS

JAMES C. SCOTT

GEORGE J. KAFFEZAKIS  
DIRECTOR OF ENGINEERING

GLENN M. PAGE  
GENERAL MANAGER

NOTE:  
OWNER'S 24-HOUR CONTACT:  
Cobb County-Marietta Water Authority  
1170 Atlanta Industrial Drive  
Marietta, GA 30066  
Phone (770) 514-5300

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED BASED UPON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION. THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

  
GILBERT R. PUFFER, P.E.  
GAS/WCC LEVEL II CERTIFIED DESIGN PROFESSIONAL # 000021852  
EXPIRES NOV., 04, 2015.

## ATKINS

1600 RiverEdge Parkway, NW, Suite 600  
Atlanta, Ga 30328  
P: 770-933-0280

**CONTRACTOR IDENTIFICATION AND LANGUAGE REQUIREMENTS:**

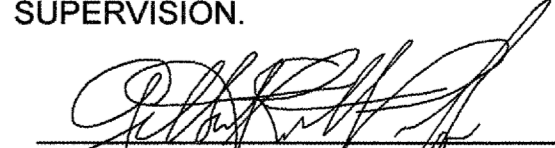
All equipment used for the maintenance or installation of utility facilities on public right-of-way shall be identified with signs that indicate the Utility Owner's name and telephone number. All personnel shall carry a name badge that identifies the utility company for whom they are working. At least one person in each operation or location shall be fluent in English. The individual shall have knowledge of what his or her company is doing and why.

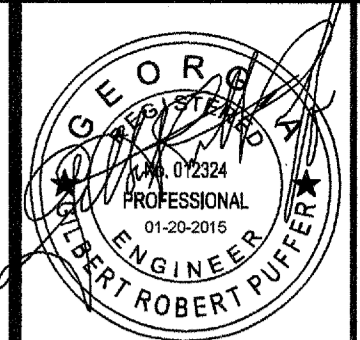

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REFERENCE ADDRESS  
1702 COBB PARKWAY (U.S. HWY. 41)

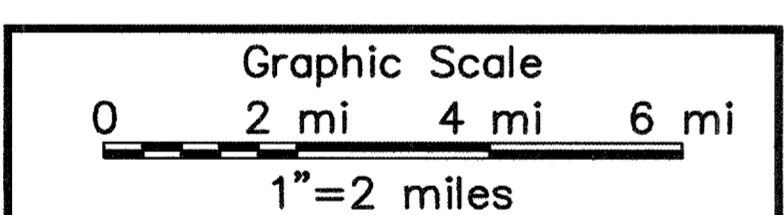
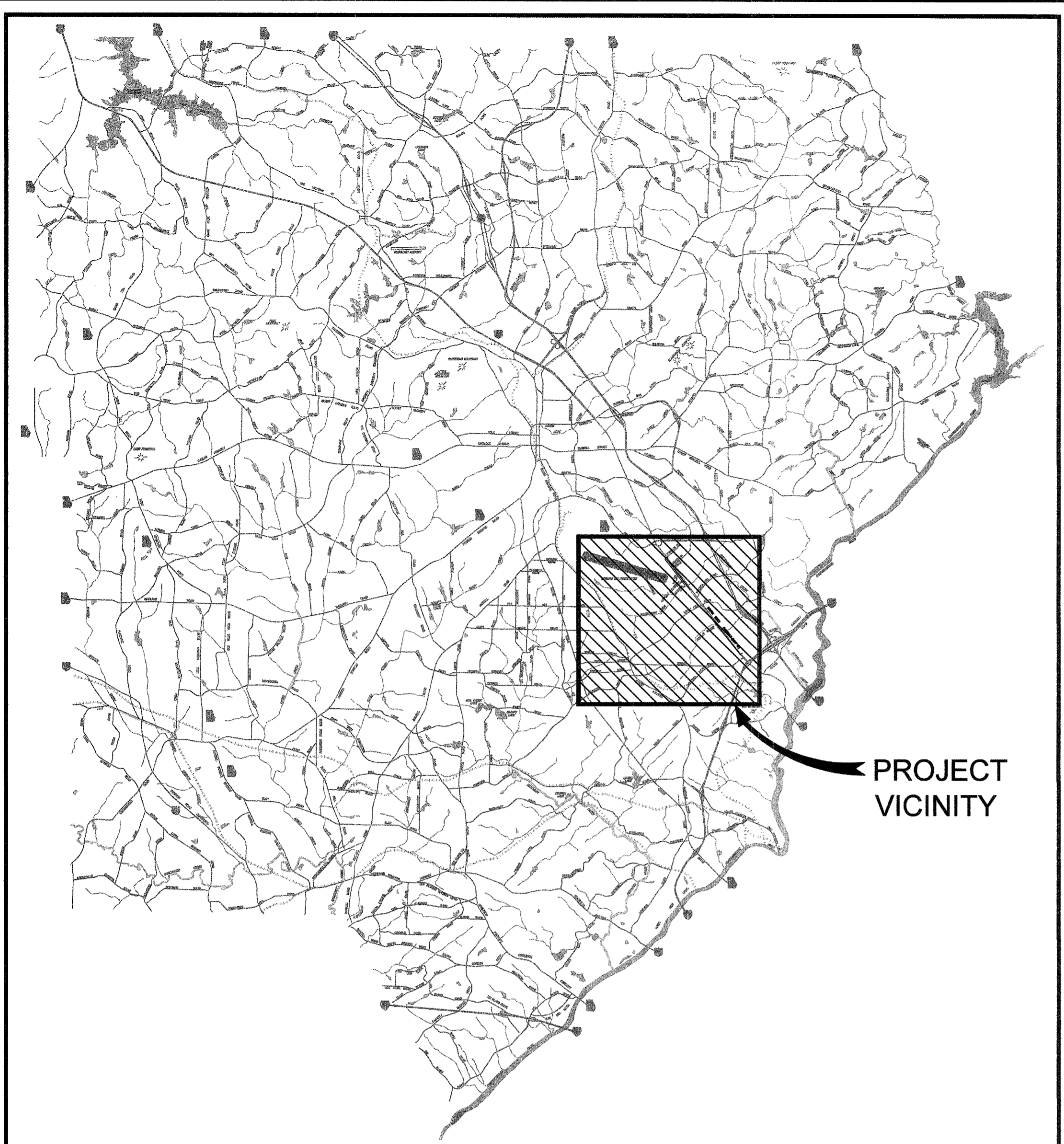
PROJECT No: 100032548  
JANUARY 2015

CITY OF SMYRNA  
DISTURBED ACREAGE = 4.0 AC  
REFERENCE ADDRESS  
2210 COBB PARKWAY (U.S. HWY. 41)

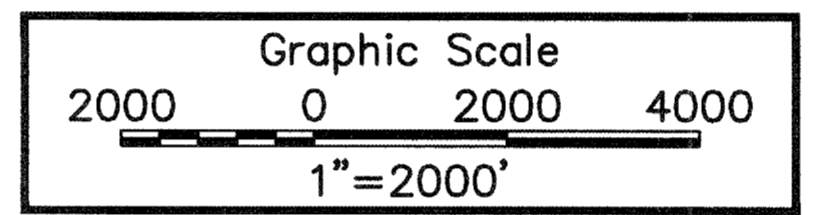
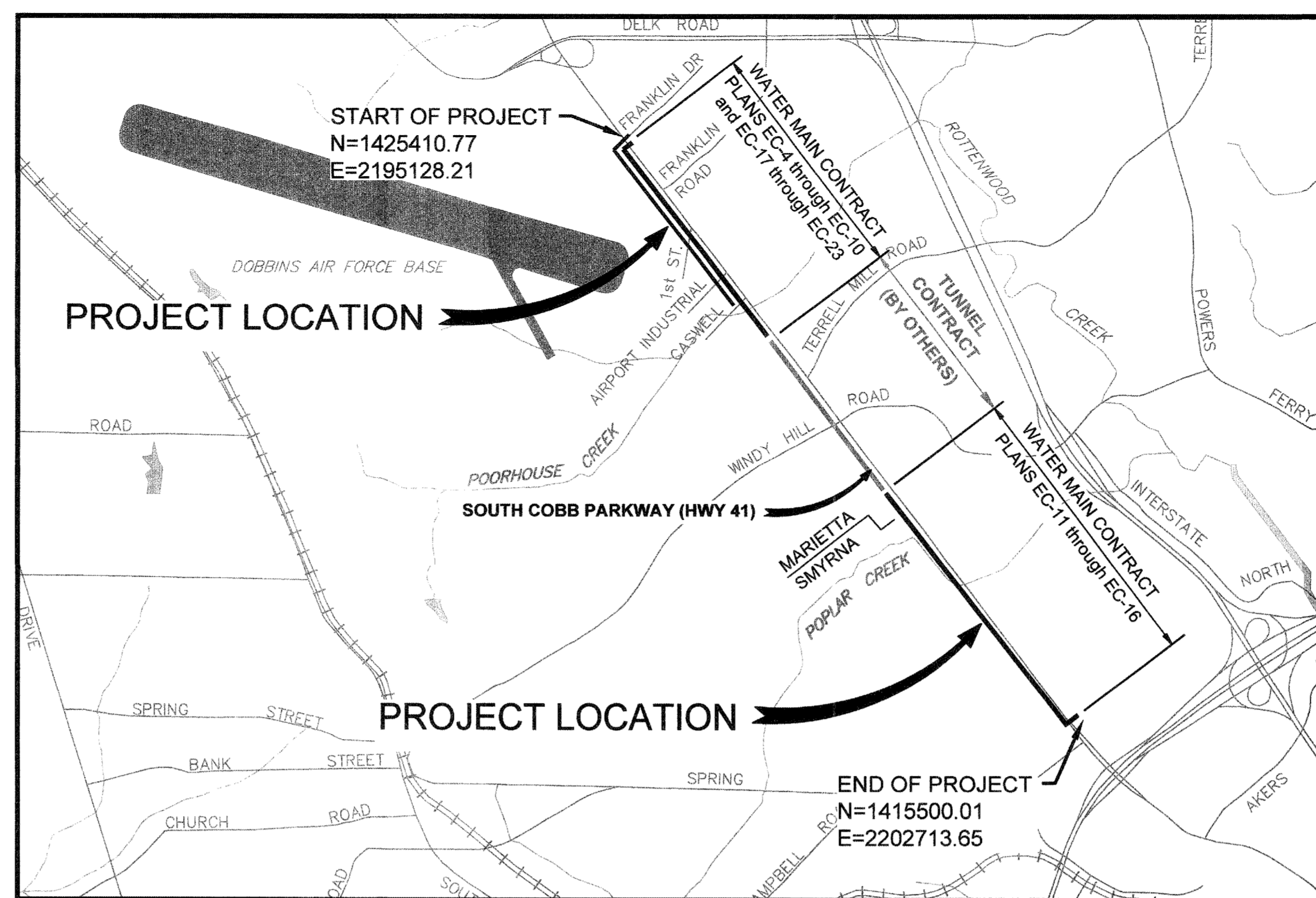
I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATION DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

  
GILBERT R. PUFFER, P.E.  
GAS/WCC LEVEL II CERTIFIED DESIGN PROFESSIONAL # 000021852  
EXPIRES NOV., 04, 2015.

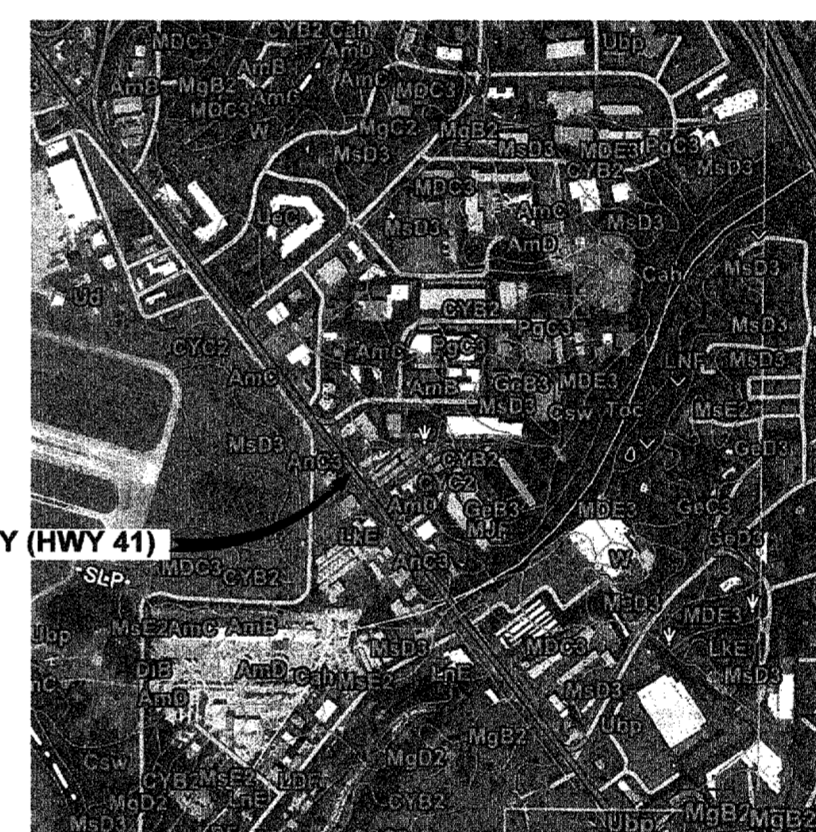
	
<b>ATKINS</b> 1600 RiverEdge Parkway, NW, Suite 600 Atlanta, Georgia 30328 P: 770-933-0280	
	
PROJ. No.: 100032548 DESIGNED BY: GRP DRAWN BY: JN CHECKED BY: GRP APPROVED BY: GRP DATE: JAN 2015 SCALE: NO SCALE	DATE: 01/20/15 REVISION: EROSION CONTROL PERMIT SET
COBB COUNTY-MARIETTA WATER AUTHORITY HIGHWAY 41 PHASE IV WATER MAIN COVER	
SHEET No. 100032548	



COBB COUNTY VICINITY MAP



PROJECT LOCATION MAP



SOIL MAP

**DRAWING INDEX**

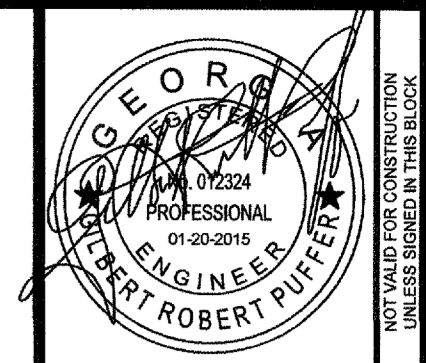
SHEET No.	DRAWING TITLE
EC-1	EROSION CONTROL - COBB COUNTY VICINITY MAP - PROJECT LOCATION MAP - SOIL MAP - DRAWING INDEX
EC-2	EROSION CONTROL - GENERAL NOTES
EC-3	EROSION CONTROL - NOTES, LEGEND, SYMBOLS
EC-4 through EC-23	EROSION CONTROL - PLANS
EC-24	EROSION CONTROL - DETAILS
EC-25	EROSION CONTROL - DETAILS
CMP-1	COMPREHENSIVE MONITORING - PLAN AND NOTES
CMP-2	COMPREHENSIVE MONITORING - SAMPLE POINT LOCATIONS PLAN
CMP-3	COMPREHENSIVE MONITORING - NOTES
CMP-4	COMPREHENSIVE MONITORING - NOTES

DESCRIPTION	ACTIVITY SCHEDULE												
	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY
INSTALLATION OF TREE PROTECTION & SILT BARRIERS													
CLEARING AND GRUBBING													
GRASSING *													

\* TEMPORARY GRASSING TO BE SOWN WITHIN 14 DAYS OF INITIAL LAND DISTURBANCE.

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATION DESCRIBED HERIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

*Gilbert R. Puffer*  
 GILBERT R. PUFFER, P.E.  
 GAS/WCC LEVEL II CERTIFIED DESIGN PROFESSIONAL # 000021852  
 EXPIRES NOV., 04, 2015.



**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P. 770-833-0280



PROJ. No.:	DESIGNED BY:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:	SCALE:
100032548	GRP	JN	GRP	GRP	JAN, 2015	AS SHOWN

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN  
 EROSION CONTROL  
 COBB COUNTY VICINITY MAP  
 PROJECT LOCATION MAP  
 SOIL MAP, DRAWING INDEX

SHEET No.  
**EC-1**  
 100032548



**EROSION CONTROL NOTES:**

- AT ALL TIMES, THE CONTRACTOR SHALL ADHERE TO LOCAL, STATE AND FEDERAL EROSION AND SEDIMENT CONTROL REGULATIONS AND TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA". BEST MANAGEMENT PRACTICES (BMP'S) SHALL BE EXERCISED TO CONTROL EROSION AND SEDIMENTATION FOR ALL RAINFALL EVENTS IN ACCORDANCE WITH THE "GREEN BOOK".
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLANS DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.
- ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 7 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING. ALL AREAS TO FINAL GRADE WILL BE ESTABLISHED WITH PERMANENT VEGETATION IMMEDIATELY UPON COMPLETION.
- IN CONCENTRATED FLOW AREAS, ALL SLOPES STEEPER THAN 2.5:1 AND WITH HEIGHT 10 FEET OR GREATER, AND CUTS AND FILLS WITHIN STREAM BUFFER, SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKET.
- WASHING DOWN AND CLEANING OF ALL CONCRETE TRUCKS AND EQUIPMENT IS NOT ALLOWED ON SITE.
- STRIPPING OF VEGETATION, REGRADING, AND OTHER DEVELOPMENT ACTIVITIES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO MINIMIZE EROSION.
- CUT AND FILL OPERATIONS SHALL BE KEPT TO A MINIMUM.
- DEVELOPMENT PLANS MUST CONFORM TO TOPOGRAPHY AND SOIL TYPE, SO AS TO CREATE THE LOWEST PRACTICABLE EROSION POTENTIAL.
- WHENEVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED, PROTECTED AND SUPPLEMENTED.
- THE DISTURBED AREA AND THE DURATION OF EXPOSURE TO EROSION ELEMENTS SHALL BE KEPT TO A PRACTICABLE MINIMUM.
- DISTURBED SOIL SHALL BE STABILIZED AS QUICKLY AS PRACTICABLE.
- TEMPORARY VEGETATION OR MULCHING SHALL BE EMPLOYED TO PROTECT EXPOSED CRITICAL AREAS DURING DEVELOPMENT.
- PERMANENT VEGETATION AND STRUCTURAL EROSION CONTROL MEASURES SHALL BE INSTALLED AS SOON AS PRACTICABLE.
- TO THE EXTENT NECESSARY, SEDIMENT IN RUN-OFF WATER SHALL BE TRAPPED BY THE USE OF DEBRIS BASINS, SILT TRAPS, OR SIMILAR MEASURES UNTIL THE DISTURBED AREA IS STABILIZED.
- ADEQUATE PROVISIONS SHALL BE PROVIDED TO MINIMIZE DAMAGE FROM SURFACE WATER TO THE CUT FACE OF EXCAVATIONS OR THE SLOPING SURFACES OF FILLS.
- CUTS AND FILLS SHALL NOT ENDANGER ADJOINING PROPERTY.
- FILLS SHALL NOT ENCR OACH UPON NATURAL WATER COURSES OR CONSTRUCTED CHANNELS IN A MANNER SO AS TO ADVERSELY AFFECT OTHER PROPERTY OWNERS.
- PROVISIONS SHALL BE PROVIDED FOR TREATMENT OR CONTROL OF ANY SOURCE OF SEDIMENT AND ADEQUATE SEDIMENTATION CONTROL FACILITIES TO RETAIN SEDIMENTS ON SITE OR PRECLUDE SEDIMENTATION OF ADJACENT WATERS BEYOND THE LEVELS SPECIFIED IN THE NPDES PERMIT.
- ALL WASTE AND DEBRIS GENERATED BY THE PROPOSED CONSTRUCTION IS TO BE DISPOSED OF PROPERLY AND IN AN APPROVED AREA. ALL DISTURBED AREAS ARE TO BE STABILIZED WITH PERMANENT VEGETATION AS SOON AS PRACTICAL.
- CLEAN UP AND/OR CONTAIN FUEL AND OIL SPILLS IMMEDIATELY. REPORT ANY CHEMICAL SPILLS INTO WATERWAYS IMMEDIATELY TO THE GEORGIA EPD EMERGENCY RESPONSE PROGRAM (1-800-241-4113). IF FUEL AND OIL ARE TO BE STORED ON-SITE, THEY MUST BE STORED IN ACCORDANCE WITH THE GEORGIA FIRE MARSHALL'S RULES AND REGULATIONS. A DIKE OF SUFFICIENT HEIGHT TO CONTAIN THE VOLUME OF FUEL OR OIL BEING STORED ALONG WITH MATERIALS AND PRODUCTS MADE FOR THE ABSORPTION OF PETROLEUM PRODUCTS ARE REQUIRED ON-SITE. ANY USED ABSORBING MATERIAL MUST BE DISPOSED OF IN AN APPROVED WASTE DISPOSAL SITE.
- 22. THE TOTAL AREA ENCOMPASSED AND EXPECTED TO BE DISTURBED BY THIS PROJECT IS APPROXIMATELY 7.0 ACRES.**
- THE CONTRACTOR SHALL PLACE TEMPORARY MULCH OR GRASSING WITHIN TWO DAYS AFTER THE COMPLETION OF ANY LAND DISTURBING ACTIVITY OR IF THE ACTIVITY IS DISCONTINUED FOR A PERIOD OF ONE WEEK OR LONGER. PERMANENT GRASSING SHALL BE PLACED AS SOON AS PRACTICABLE.
- THE CONTRACTOR SHALL PERFORM REGULAR MAINTENANCE ON EROSION CONTROL DEVICES AND KEEP THE REQUIRED RECORDS OF THE MAINTENANCE AND REPAIR OF THE DEVICES IN ACCORDANCE WITH THE EPD GENERAL PERMIT NO. GAR 100002 (NPDES). SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER.
- THE RIGHT-OF-WAY LINE AND/OR CONSTRUCTION EASEMENT REPRESENTS THE LIMITS OF DISTURBANCE AND CLEARING FOR THE PROJECT. THE CONTRACTOR SHALL NOT CLEAR BEYOND THIS LIMIT. THE CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO ANY SPECIAL CONDITIONS REGARDING CLEARING THAT ARE ATTACHED TO THE EASEMENT AGREEMENTS.
- STORMWATER FROM THIS LINEAR PROJECT SITE DISCHARGES INTO VARIOUS OUTFALLS WHICH EVENTUALLY FLOW INTO: NO NEIGHBORING AREA OFF SITE WILL BE AFFECTED BY POST-DEVELOPED RUN-OFF FROM THIS CONSTRUCTION SITE.
- OFF-SITE VEHICLE TRACKING OF DIRT, SOILS, AND SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED OR ELIMINATED TO THE MAXIMUM EXTENT PRACTICABLE. UTILIZE BMP'S AS SHOWN ON EROSION CONTROL PLAN SHEETS.
- EROSION CONTROL PRACTICES MUST COMPLY WITH THE BEST MANAGEMENT PRACTICES FOR EROSION CONTROL, AND SHALL COMPLY WITH THE STANDARDS/SPECIFICATIONS IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
- MULCH, TEMPORARY VEGETATION, OR PERMANENT (PERENNIAL) VEGETATION SHALL BE COMPLETED ON ALL EXPOSED AREAS WITHIN 7 DAYS AFTER DISTURBANCE.

**EROSION CONTROL NOTES: (continued)**

- SOURCES OF NON-STORM WATER ASSOCIATED WITH THIS CONSTRUCTION PROJECT MAY INCLUDE FIRE HYDRANT FLUSHING, WATER LINE FLUSHING, SPRINGS AND UNCONTAMINATED GROUND WATER. WATER FROM DISINFECTED WATER LINES SHALL BE DECHLORINATED WITH A NEUTRALIZING AGENT IN ACCORDANCE WITH APPENDIX B OF AWWA C651. SEDIMENT FROM EROSION RESULTING FROM THE FLUSHING OF FIRE HYDRANTS SHALL BE MINIMIZED BY PLACING RIP-RAP ADJACENT TO THE HYDRANTS AND TRAPPING ANY SEDIMENT IN A MANNER CONSISTENT WITH THE GEORGIA MANUAL FOR EROSION AND SEDIMENT CONTROL.
- WHEN HAND PLANTING, MULCH (HAY OR STRAW) SHOULD BE UNIFORMLY SPREAD OVER SEEDING AREA WITHIN 24 HOURS OF SEEDING.
- MULCH WILL BE USED AS TEMPORARY COVER (D&1). ON SLOPES GREATER THAN 2:1, MULCH, IF USED, WILL BE ANCHORED.
- NO CLEARING OF THE SITE UNTIL ALL SILT FENCE AND OTHER EROSION AND SEDIMENT CONTROL DEVICES ARE INSTALLED, STABILIZED, AND FUNCTIONAL. PLEASE CALL (770) 422-1902 WITH ENOUGH LEAD-TIME FOR INSPECTION TO MEET YOUR SCHEDULE.
- SEDIMENT/EROSION CONTROL DEVICES MUST BE CHECKED AFTER EACH STORM EVENT AS REQUIRED BY THE EPD GAR 100002 NPDES PERMIT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
- NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 FOOT OR 50 FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
- THE 24-HOUR CONTACT FOR EROSION CONTROL IS COBB COUNTY MARIETTA WATER AUTHORITY, 1170 ATLANTA INDUSTRIAL DRIVE, MARIETTA, GA 30066. PHONE (770) 514-5300. FIELD INSPECTOR JEFF PADGETT, PHONE NUMBER (770) 933-0280.
- PRIOR TO SEEDING AND LANDSCAPING, ROCK, GRAVEL, AND DEBRIS SHALL BE REMOVED. SOIL SHALL BE SUITABLY COMPACTED AND FINELY GRADED. ALL ROOTS SHALL BE REMOVED.
- THE CONTRACTOR SHALL INSTALL ANY ADDITIONAL EROSION CONTROL DEVICES AS REQUIRED BY COBB COUNTY AND GDOT.
- THE CONTRACTOR SHALL PLACE MULCH OR BEGIN GRASSING WITHIN TWO DAYS AFTER COMPLETION OF ANY LAND DISTURBING ACTIVITY OR IF ACTIVITY IS DISCONTINUED FOR A PERIOD OF A MAXIMUM SEVEN (7) DAY SOIL EXPOSURE. NO ADDITIONAL PAYMENT SHALL BE MADE FOR GRASSING THE SAME AREA TWICE.
- ALL STATE WATERS AND WETLANDS LOCATED ON OR WITHIN 200 FEET OF THE PROJECT SITE HAVE BEEN Delineated. THERE ARE NO WETLANDS WITHIN THE CONSTRUCTION CORRIDOR FOR THIS PROJECT.
- WASTE MATERIALS FROM THIS SITE SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
- SANITARY WASTE  
A MINIMUM OF ONE PORTABLE SANITATION UNIT WILL BE PROVIDED FOR EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.  
  
ALL SANITARY WASTE UNITS WILL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORM WATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMP'S MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE, TO PREVENT WASTES FROM CONTRIBUTING TO STORM WATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN GRADING PHASE, BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED.  
  
HAZARDOUS WASTES  
ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE, AND OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS'S) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTE THAT MAY RESULT FROM THESE PRODUCTS. AN MSDS WILL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND OR USED AND ANOTHER COPY OF EACH MSDS WILL BE MAINTAINED IN THE ESPCP FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.  
  
THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THIS ESPCP AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTES WILL BE ALLOWED TO COME INTO CONTACT WITH STORMWATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORMWATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.
- A BRIEF DESCRIPTION OF THE EROSION CONTROL MEASURES PROPOSED TO BE IMPLEMENTED AT THE CONSTRUCTION SITE INCLUDE: TYPE C SILT FENCE, INLET SEDIMENT TRAPS, AND GRASSING.
- THE RUNOFF COEFFICIENT PRIOR TO AND AFTER CONSTRUCTION ACTIVITIES AT THE SITE IS APPROXIMATELY 0.35 PER THE "MANUAL FOR EROSION AND SEDIMENT CONTROL" APPENDIX A-3, TABLE A-3.1.
- NO RIP-RAP SHALL BE PLACED IN ANY WETLAND AREA OR IN ANY LOCATION OR MANNER TO IMPAIR SURFACE WATER FLOW INTO OR OUT OF ANY WETLAND AREA.
- ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY BY THE CONTRACTOR AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF THE DAY.
- CLEARING WILL BE KEPT TO AN ABSOLUTE MINIMUM. VEGETATION AND MULCH WILL BE APPLIED TO APPLICABLE AREAS IMMEDIATELY AFTER GRADING IS COMPLETE. LAND DISTURBING WILL BE SCHEDULED TO LIMIT EXPOSURE OF BARE SOILS TO EROSION ELEMENTS.
- NO STORM WATER WILL BE CONTAINED ON THIS PROJECT.

**EROSION CONTROL NOTES: (continued)**

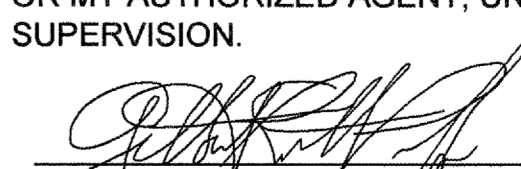
- SOIL CLEANUP AND CONTROL PRACTICES
  - LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.
  - MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDE, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.
  - SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
  - ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
  - FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.
  - FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.
  - FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS.
  - FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

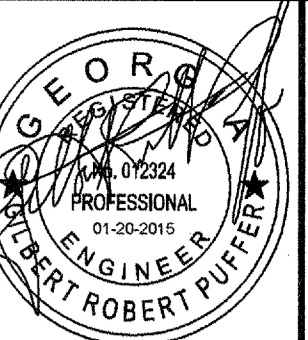
THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM IS STORED ON-SITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 560 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.
- DESCRIPTION OF APPROPRIATE CONTROLS AND MEASURES THAT WILL BE IMPLEMENTED AT THE CONSTRUCTION SITE:
  - INITIAL START OF PROJECT, SILT FENCE WILL BE INSTALLED ALONG CONSTRUCTION TO PREVENT ANY SEDIMENT FROM ESCAPING. THE SITE DURING THE CLEARING OF ANY TREES OR GROUND COVER AND CONSTRUCTION EXITS WILL BE ESTABLISHED TO PREVENT SEDIMENT FROM BEING TRACKED OFF THE PROJECT SITE.
  - INTERMEDIATE OR SECOND PHASE OF CONSTRUCTION, ALL EROSION CONTROL DEVICES WILL HAVE BEEN INSTALLED. THIS SHALL INCLUDE SILT FENCE, CONSTRUCTION EXITS, STRAW COVER OVER EXPOSED GROUND THAT WILL NOT BE COVERED WITHIN 7 DAYS AND ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY TO CONTROL EROSION AS DIRECTED BY THE ON SITE INSPECTOR.
  - FINAL STAGE OR END OF CONSTRUCTION, ALL EROSION CONTROL DEVICES AND CONSTRUCTION EXITS SHALL BE REMOVED AND THE ENTIRE SITE WILL BE COVERED BY PERMANENT VEGETATION TO CONTROL ANY FUTURE EROSION FROM THE SITE.
- THE EROSION CONTROL MEASURES PROPOSED DURING THE CONSTRUCTION PROCESS TO ASSIST IN CONTROL OF THE POLLUTION IN STORM WATER THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED ARE: DURING THE CONSTRUCTION PROCESS OF THIS PIPELINE PROJECT, THE EROSION CONTROL DEVICES INSTALLED ARE TO CONTROL SEDIMENT FROM ESCAPING FROM THE SITE. WHEN THE PROJECT IS COMPLETED AND BEFORE EROSION CONTROL DEVICES ARE REMOVED, A STAND OF GRASS IS ESTABLISHED TO CONTROL EROSION AND TO PREVENT SEDIMENT FROM LEAVING THE SITE.
- PRACTICES THAT WILL BE USED TO REDUCE THE POLLUTANTS IN STORM WATER DISCHARGES ARE AS FOLLOWS:
  - PETROLEUM BASED PROJECTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATERS, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.
  - PAINTS / FINISHES / SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCTS WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
  - FERTILIZER AND HERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.
  - BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ON SITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.
- APPLY THE APPROPRIATE GEORGIA DEPARTMENT OF TRANSPORTATION APPROVED EROSION CONTROL MATTING OR BLANKETS OR BONDED FIBER MATRIX TO ALL SLOPES STEEPER THAN 3:1.
- THE NATURE OF THIS PROJECT IS THE INSTALLATION OF A 16", 36", AND 42", WATERMANS.

(notes continued on sheet EC-3)

24 HOUR CONTACT FOR EROSION, SEDIMENT, AND POLLUTION CONTROL: Jeff Padgett PH. (770)-933-0280

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATION DISCRIBED HERIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

  
GILBERT R. PUFFER, P.E.  
GASWCC LEVEL II CERTIFIED DESIGN PROFESSIONAL # 000021852  
EXPIRES NOV., 04, 2015.



**ATKINS**

1600 RiverEdge Parkway, NW, Suite 600  
Atlanta, Georgia 30328  
P: 770-933-0280

COBB COUNTY-MARIETTA  
**WATER AUTHORITY**  
REGIONAL WATER RESOURCE

DATE	REVISION	EROSION CONTROL PERMIT SET
01/20/15	A	A

PROJ. No.: 100032548  
DESIGNED BY: GRP  
DRAWN BY: JN  
CHECKED BY: GRP  
APPROVED BY: GRP  
DATE: JAN. 2015  
SCALE: NONE

COBB COUNTY-MARIETTA WATER AUTHORITY  
HIGHWAY 41 PHASE IV  
WATER MAIN

EROSION CONTROL  
GENERAL NOTES

SHEET No.  
**EC-2**

100032548

File Name: C:\PW\WORK\ATKINS\101\NEW\7492\DWG\03\EC-2\PlotSet: February 20, 2015 7:07am

**EROSION CONTROL NOTES:** (continued from sheet EC-2)

55. FOR INFRASTRUCTURE PROJECTS THAT BEGIN CONSTRUCTION ACTIVITY AFTER THE EFFECTIVE DATE OF THIS PERMIT, THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, OR AN ALTERNATIVE DESIGN PROFESSIONAL APPROVED BY THE EPD IN WRITING, TO INSPECT (a) THE INSTALLATION OF THE SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs FOR THE "INITIAL SEGMENT" OF THE LINEAR INFRASTRUCTURE PROJECT AND (b) ALL SEDIMENT BASINS WITHIN THE ENTIRE LINEAR INFRASTRUCTURE PROJECT WITHIN (7) DAYS AFTER INSTALLATION. FOR THE PURPOSE OF THE SPECIFIC REQUIREMENTS IN PART IV.A.5, THE DISTURBED ACREAGE OF THE "INITIAL SEGMENT" OF A LINEAR INFRASTRUCTURE PROJECT MUST BE EQUAL TO OR GREATER THAN 10% OF THE TOTAL ESTIMATED DISTURBED ACREAGE FOR THE LINEAR INFRASTRUCTURE PROJECT BUT NOT LESS THAN (1) ACRE. THE DESIGN PROFESSIONAL SHALL REPORT THE RESULTS OF THE INSPECTION TO THE PRIMARY PERMITTEE WITHIN (7) DAYS AND THE PERMITTEE MUST CORRECT ALL DEFICIENCIES WITHIN (2) BUSINESS DAYS OF RECEIPT OF THE INSPECTION REPORT FROM THE DESIGN PROFESSIONAL UNLESS WEATHER RELATED SITE CONDITIONS ARE SUCH THAT ADDITIONAL TIME IS REQUIRED.

AMMENDMENTS / REVISIONS TO EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN WHICH HAVE A SIGN BEST MANAGEMENT PRACTICES WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

56. SEDIMENT STORAGE DESIGN: CITY OF MARIETTA

DETERMINE STORAGE VOLUME REQUIRED:  
3.0 ACRES DISTURBED AREA x 67 C.Y. STORAGE PER ACRE DISTURBED = 201 C.Y.

DETERMINE STORAGE VOLUME:  
SILT FENCE  
 $5780 \text{ L.F.} \times 3' \times 1' \times 0.5' = 321 \text{ C.Y.}$

321 C.Y. > 201 C.Y. OK

57. SEDIMENT STORAGE DESIGN: CITY OF SMYRNA

DETERMINE STORAGE VOLUME REQUIRED:  
4.0 ACRES DISTURBED AREA x 67 C.Y. STORAGE PER ACRE DISTURBED = 268 C.Y.

DETERMINE STORAGE VOLUME:  
SILT FENCE  
 $4970 \text{ L.F.} \times 3' \times 1' \times 0.5' = 276 \text{ C.Y.}$

276 C.Y. > 268 C.Y. OK

**TREE PROTECTION NOTES:**

- A PRE-CONSTRUCTION CONFERENCE IS REQUIRED PRIOR TO THE ISSUANCE OF THE ON-SITE CONSTRUCTION PERMIT. CALL SITE INSPECTIONS AT (770) 528-2134 TO ARRANGE A MEETING AT THE SITE.
- THE SITE CONTRACTOR SHALL COORDINATE SERVICE ROUTING OF ALL GAS, TELEPHONE, AND ELECTRICAL LINES WITH THE APPROPRIATE UTILITY COMPANY. ALL CONSTRUCTION MUST COMPLY WITH EACH UTILITY'S STANDARDS AND SPECIFICATIONS AND NOT INTERFERE WITH TREE PLANTING SITES OR EXISTING TREES TO BE PRESERVED.
- TREE PROTECTION DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY CLEARING, GRUBBING OR GRADING.
- ROOT SYSTEMS OF SIGNIFICANT TREES, AS INDICATED ON THE PLANS, WHICH ARE ENCOUNTERED DURING CONSTRUCTION, SHALL BE FREE-BORED UNDER.
- TREE PROTECTION AND REPLACEMENT SHALL BE ENFORCED ACCORDING TO CITY OF MARIETTA AND CITY OF SMYRNA STANDARDS. ANY FIELD ADJUSTMENTS TO TREE PROTECTION DEVICE TYPES OR LOCATIONS OR SUBSTITUTIONS OF REPLACEMENT PLANT MATERIALS SHOWN ON THE APPROVED PLANS ARE SUBJECT TO THE REVIEW AND APPROVAL OF THE CITY OF MARIETTA AND CITY OF SMYRNA.
- THE INSTALLATION OF EROSION CONTROL DEVICES CAUSES HARM TO A TREE. USE SILT FENCE ONLY AS REQUIRED AND LOCATE IT AS FAR FROM TREE PROTECTION ZONES AS POSSIBLE.
- WHEN DIGGING NEAR TREES, THE CONTRACTOR SHALL PRUNE ALL EXPOSED ROOTS ONE (1) INCH IN DIAMETER AND LARGER ON THE SIDE OF THE TRENCH ADJACENT TO THE TREES. PRUNING SHALL CONSIST OF MAKING A CLEAN CUT FLUSH WITH THE SIDE OF THE TRENCH TO PROMOTE NEW ROOT GROWTH.
- PRUNING OF TREE LIMBS TO PROVIDE CLEARANCE FOR EQUIPMENT AND MATERIALS SHALL BE DONE ACCORDING TO STANDARD ARBORICULTURAL PRACTICE (SEE ANSI A300-1995).
- PROTECT THE TRUNKS OF ANY TREES BEING PRESERVED WITHIN THE TEMPORARY OR PERMANENT UTILITY EASEMENTS WITH STRAPPED-ON PLANKING OR SIMILAR PROTECTIVE DEVICE.

**CITY OF MARIETTA NOTES:**

- NO UNCONTROLLED WATER WILL BE ALLOWED TO FLOW ONTO ADJACENT PROPERTY, RESULTING IN ADVERSE IMPACTS ON PROPERTY OR EROSION / SEDIMENTATION.
- ALL NEW UTILITY SERVICES ON PRIVATE PROPERTY MUST BE PLACED UNDERGROUND IN ACCORDANCE WITH CITY OF MARIETTA ORDINANCE # 6422.  
  
ALL CONSTRUCTION WITHIN THE CITY OF MARIETTA RIGHT OF WAY MUST COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA) PER CITY OF MARIETTA ORDINANCE # 5562  
  
ALL LANE STRIPPING WITHIN CITY RIGHT OF WAY MUST BE THERMOPLASTIC AND ALL GORES, STOP BARS, AND TURN ARROWS MUST BE ALKYD THERMOPLASTIC PAINT.  
  
AS-BUILT DATA WILL HAVE TO BE SUBMITTED BEFORE FINAL RELEASE IS OBTAINED DATA TO BE GA STATE PLANE COORDINATE SYSTEM (WEST ZONE) UTILIZING NAD 83/94 ADJUSTMENT AND NAVD 88.
- THE APPLICANT SHALL BE RESPONSIBLE FOR REPAIRING STREETS, AND RELATED IMPROVEMENTS WHICH MAY BE DAMAGED OR FAIL DUE TO IMPROPER INSTALLATION FOR A PERIOD OF 12 MONTHS FROM THE DATE OF THE FINAL PLAT APPROVAL BY THE MAYOR AND CITY COUNCIL.
- ALL REQUIRED IMPROVEMENTS SHALL COMPLY THE PUBLIC LAW 101-336, THE AMERICANS WITH DISABILITIES ACT OF 1990, AS AMENDED OR MOST CURRENT. ANY IMPROVEMENTS WHICH DO NOT COMPLY WITH SAID ACT SHALL BE REDONE AT THE APPLICANTS EXPENSE AND FINAL APPROVAL OF THE PLAT SHALL NOT BE GIVEN UNTIL SUCH WORK IS COMPLETED IN COMPLIANCE WITH THE ACT. ALL PLANS SUBMITTED TO THE CITY FOR REVIEW SHALL CONTAIN A CERTIFICATE THAT SAID IMPROVEMENTS FULLY COMPLY WITH THE AMERICANS WITH DISABILITIES ACT OF 1990, PUBLIC LAW 101-336 AS AMENDED AND THE CITY WILL RELY UPON SUCH CERTIFICATE IN APPROVING PRELIMINARY AND FINAL PLATS AS WELL AS SITE PLANS" (SEE SECTION 728.07 OF CITY CODE).
- PERFORMANCE BOND OR GUARANTEE FOR 110 % OF THE COST OF THE ASPHALT TOPPING. COST QUOTES FROM THE CONTRACTOR FOR THIS AMOUNT SHALL BE INCLUDED FOR DOCUMENTATION FOR WORK NOT YET COMPLETED " (SEE SECTION 730 OF CITY CODE).
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE, OR AS DIRECTED BY THE EROSION CONTROL INSPECTOR.
- THE ES & PC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION / LAND DISTURBANCE PERIOD, THESE ES & PC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT LEAVE THE SITE.
- THE ES & PC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT / CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
- THE ES & PC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
- ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
- I CERTIFY AS THE PLAN DESIGNER THAT I HAVE VISITED THE SITE PRIOR TO THE DESIGN OF THE ES & PC PLANS.
- SILT FENCE CANNOT BE USED TO STORE SEDIMENT. THE USE OF BASINS, SEDIMENT TRAPS AND OTHER SIMILAR BMP'S IN ACCORDANCE WITH STATE LAW ARE REQUIRED.
- STABILIZED CONSTRUCTION EXITS SHALL BE INSTALLED AT THE BEGINNING OF LAND DISTURBANCE AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- IF THE CONTRACTOR CHOOSES TO UTILIZE AN ALTERNATIVE TYPE C SILT FENCE TECHNOLOGY, IT SHALL BE IDENTIFIED IN GA DOT DOCUMENT QPL-36. ANY ALTERNATIVE TECHNOLOGY NOT IDENTIFIED IN THIS DOCUMENT CANNOT BE UTILIZED WITHOUT THE DESIGN ENGINEER REVISING THE APPROVED ES & PC PLAN WITH REVIEW AND APPROVAL BY THE CITY OF MARIETTA PUBLIC WORKS - ENGINEERING.
- NO CLEARING OF THE SITE UNTIL ALL BASINS, DIVERSIONS, AND SEDIMENT CONTROLS ARE INSTALLED, STABILIZED, AND FUNCTIONAL.
- THE IMPLEMENTATION OF THIS ES & PC PLAN AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ES & PC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT / CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION IS ESTABLISHED PER CITY CODE.
- THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION / LAND DISTURBANCE ACTIVITY. DURING CONSTRUCTION / LAND DISTURBANCE PERIOD NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE APPLICANT / CONTRACTOR FOR THE DURATION OF THE CONSTRUCTION.
- THE ES & PC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT AND SEDIMENT - LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS OR VIOLATE APPLICABLE WATER QUALITY STANDARDS.
- AT NOTICE SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN AN INLET / CATCH BASIN / STORMWATER MANHOLE. AN INLET / CATCH BASIN / STORMWATER MANHOLES AND CONVEYANCE LINES BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATIONS SHALL NOT FLUSH SEDIMENT - LADEN WATER INTO DOWNSYSTEM SYSTEM OR STATE WATERS.
- ALL ROADWAYS, PUBLIC OR PRIVATE, MUST HAVE THE CITY INSPECTOR OBSERVE AND APPROVE THE PROOF ROLLING OF ROAD AND DRIVE AREAS BEFORE AGGREGATE BASE COURSE IS APPLIED AND ALSO BEFORE THE ASPHALT OR CONCRETE IS APPLIED. IF APPROVED BY THE CITY ENGINEER, CONTRACTOR MAY HAVE A GEOTECHNICAL / SOILS ENGINEER EVALUATE THE EXPOSED SUBGRADE AND GAB PRIOR TO INSTALLATION OF BASE COURSE AND ASPHALT OR CONCRETE ( BUT NOT IN LIEU OF CITY INSPECTION ).

**CITY OF MARIETTA NOTES:** (continued from this sheet)

- LAND DISTURBANCE CANNOT BEGIN ON THE SITE UNTIL AFTER THE PRECONSTRUCTION CONFERENCE AND THE EROSION CONTROL INSPECTOR GIVES THE LDA PERMIT TO THE CONTRACTOR. PRESENT FOR THE PRECONSTRUCTION CONFERENCE, GRADING CONTRACTOR AND OWNER. THE DESIGN PROFESSIONAL MAY BE PRESENT AT THE DIRECTION OF THE OWNER.
- PER THE SAFE DAMS LAW ( OCGA 12-5-370 / CHAPTER 39-3-8-01 ET SEQ ) ALL EARTHEN EMBANKMENTS SHALL BE PROTECTED FROM SURFACE EROSION BY APPROPRIATE VEGETATION OR SOME OTHER TYPE PROTECTIVE SURFACE SUCH AS RIP RAP OR PAVING. INAPPROPRIATE VEGETATION ON EXISTING DAMS IF THEY DO NOT OBSCURE INSPECTION OR INTERFERE WITH THE OPERATION AND MAINTENANCE OF THE DAM. THE STATE LAW CONTINUES " PREVENT THE GROWTH OF TREES OR BRUSH ON THE EMBANKMENT OF THE DAM AND ON THE SPILLWAY SYSTEM. LANDSCAPING WITH TREES SHALL NOT BE INSTALLED ON EARTHEN EMBANKMENTS WHERE PERMANENT OR TEMPORARY PONDING OF WATER MAY CAUSE WEAKNESS AND / OR FAILURE ALONG THE ROOTS.

UNIFORM CODING SYSTEM  
FOR SOIL AND SEDIMENT CONTROL PRACTICES  
GEORGIA STATE SOIL AND WATER CONSERVATION COMMISSION OF GEORGIA

**STRUCTURAL PRACTICES**

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
(Sd1)	SEDIMENT BARRIER			A BARRIER TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. IT MAY BE SANDBAGS, BALES OF STRAW OR HAY, BRUSH, LOGS AND POLES, GRAVEL, OR A SILT FENCE.
(Sd2-P)	INLET SEDIMENT BARRIER			AN INLET PROTECTION CREATED BY PLACING CONCRETE BLOCK WRAPPED IN FILTER FABRIC IN FRONT OF THE ENTRANCE TO AN INLET. THE PROTECTION IS TO BE REMOVED AT THE COMPLETION OF CONSTRUCTION ACTIVITIES.
(Sd2-F)	INLET SEDIMENT BARRIER			AN INLET PROTECTION CREATED BY EXCAVATING AROUND A STORM DRAIN DROP INLET. THE EXCAVATED AREA WILL BE FILLED AND STABILIZED ON COMPLETION OF CONSTRUCTION ACTIVITIES.
(Co)	CONSTRUCTION EXIT			A CRUSHED STONE PAD LOCATED AT THE CONSTRUCTION SITE EXIT TO PROVIDE A PLACE FOR REMOVING MUD FROM TIRES THEREBY PROTECTING PUBLIC STREETS.

**VEGETATIVE MEASURES**

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
(Ds1)	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		(Ds1)	ESTABLISHING TEMPORARY PROTECTION FOR DISTURBED AREAS WHERE SEEDINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDING COVER.
(Ds2)	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)		(Ds2)	ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS ON DISTURBED AREAS.
(Ds3)	DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)		(Ds3)	ESTABLISHING A PERMANENT VEGETATIVE COVER SUCH AS TREES, SHRUBS, VINES, GRASSES, SOD, OR LEGUMES ON DISTURBED AREAS.
(Du)	DUST CONTROL ON DISTURBED AREAS		(Du)	CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITE, ROADWAYS AND SIMILAR SITES.

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATION DISCRIBED HERIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

*Gilbert R. Puffer, P.E.*  
GILBERT R. PUFFER, P.E.  
GASWCC LEVEL II CERTIFIED DESIGN PROFESSIONAL # 000021852  
EXPIRES NOV., 04, 2015.

**ATKINS**  
1800 RiverEdge Parkway, NW, Suite 600  
Atlanta, Georgia 30328  
P: 770-993-0280

COBB COUNTY-MARIETTA WATER AUTHORITY  
HIGHWAY 41 PHASE IV  
WATER MAIN

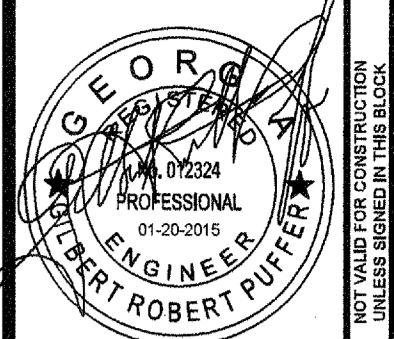
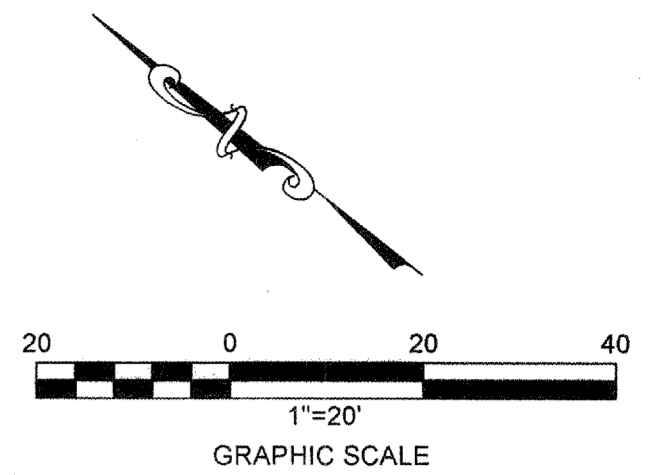
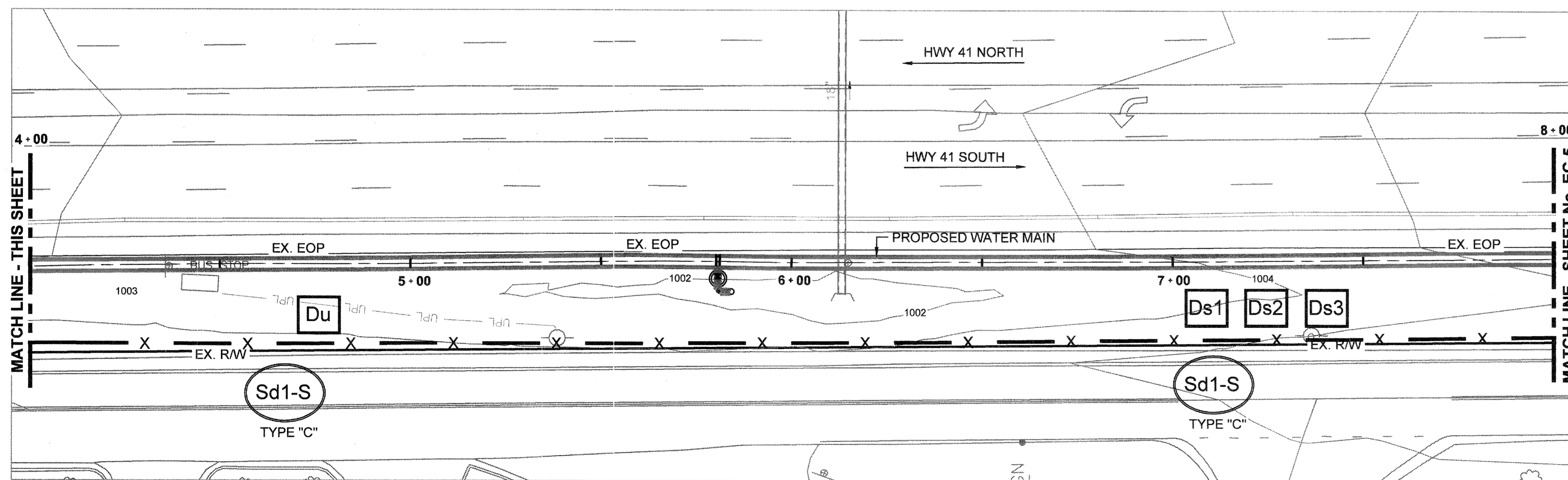
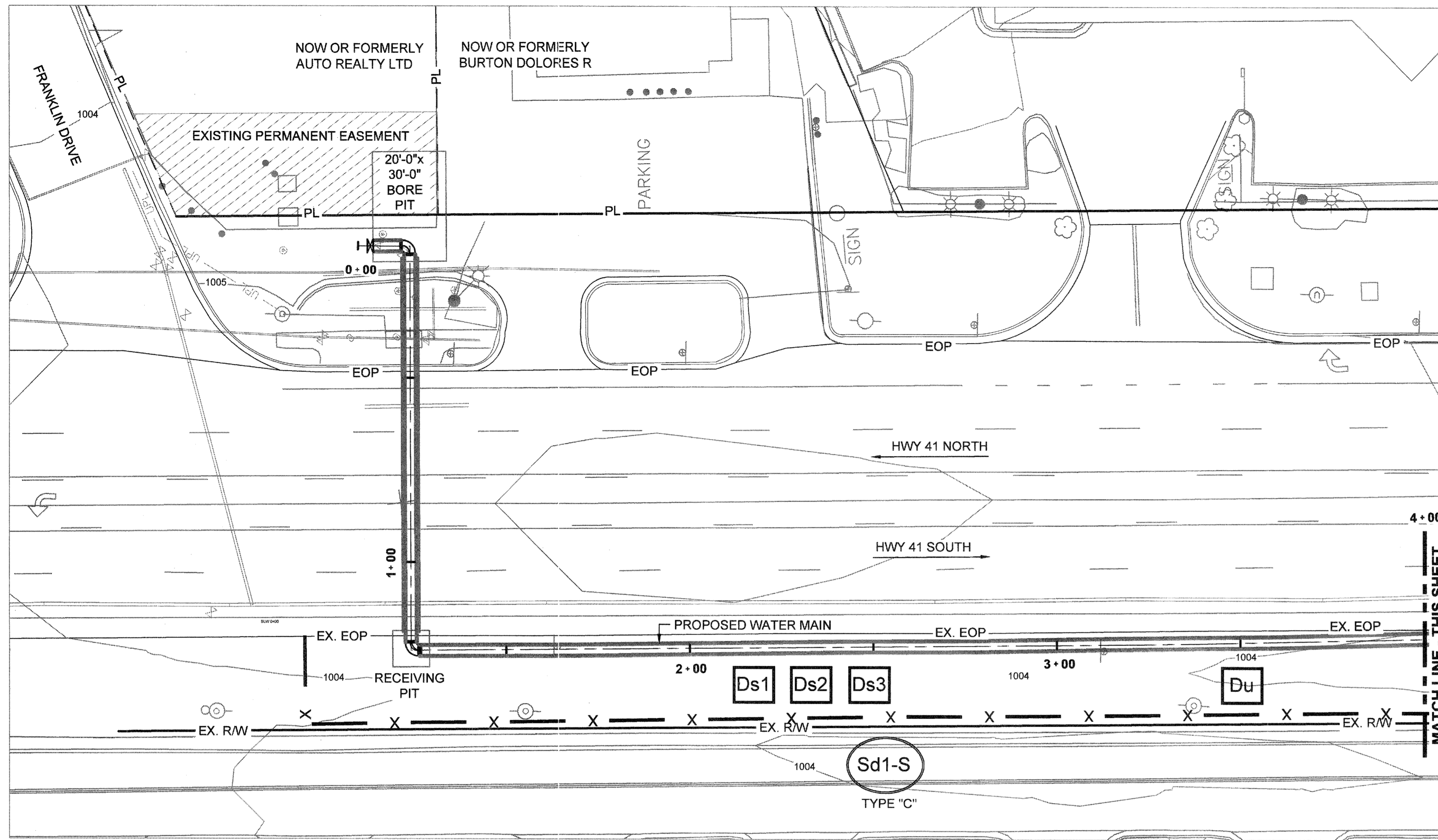
**EROSION CONTROL NOTES, LEGEND, SYMBOLS**

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DRAWN BY: JN  
CHECKED BY: GRP  
APPROVED BY: GRP  
DATE: JAN. 2015  
SCALE: NONE

DATE: 01/20/15  
REVISION: EROSION CONTROL PERMIT SET

SHEET No.  
**EC-3**  
100032548

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 P: 770-933-0280



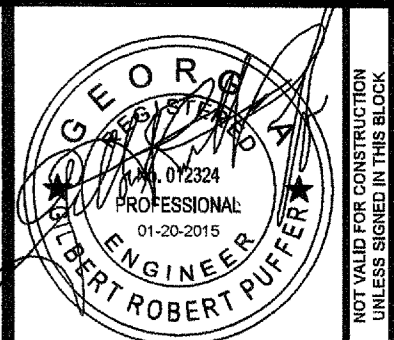
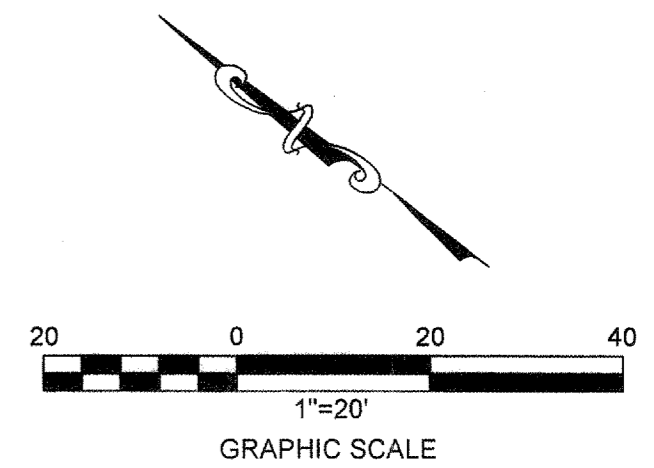
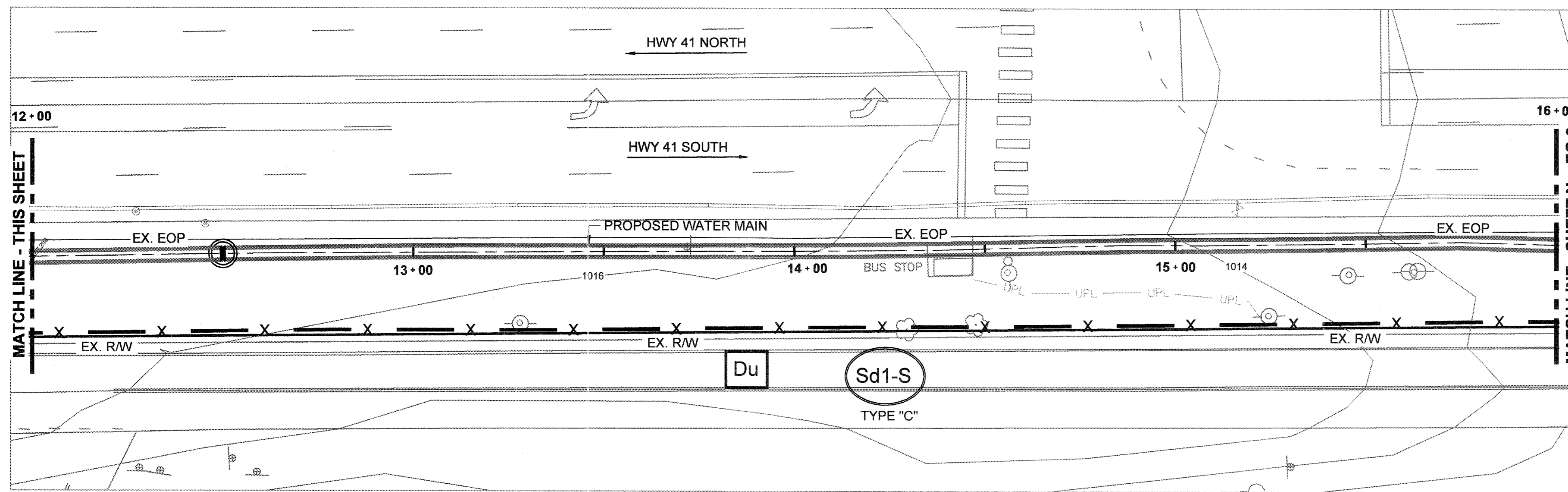
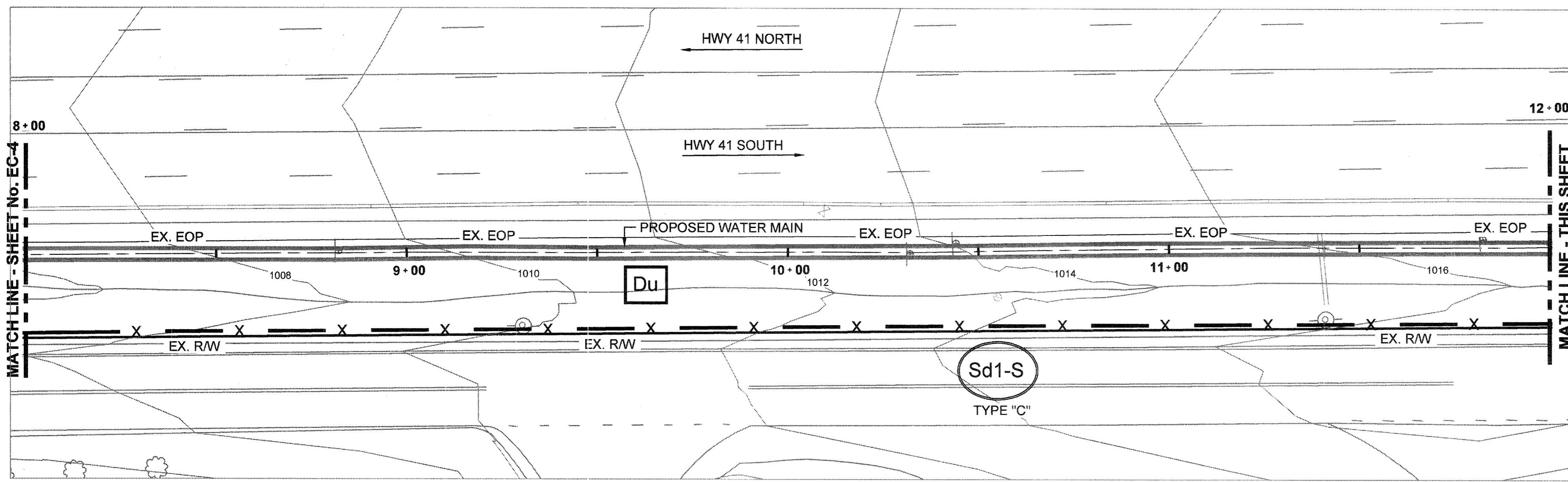
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DESIGNED BY:	REVISION
GRP	
DRAWN BY:	EROSION CONTROL PERMIT SET
JN	
CHECKED BY:	SCALE:
GRP	AS SHOWN
APPROVED BY:	DATE:
GRP	JAN. 2015

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN  
**EROSION CONTROL PLANS**

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATION DESCRIBED HERIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

*Gilbert R. Puffer*  
 GILBERT R. PUFFER, P.E.  
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 EXPIRES NOV., 04, 2015.

SHEET No.  
**EC-4**  
 100032548



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REVISION	DATE
1	01/20/15
EROSION CONTROL PERMIT SET	

DESIGNED BY: GRP	PROJECT No.: 100032548
DRAWN BY: JN	
CHECKED BY: GRP	
APPROVED BY: GRP	
DATE: JAN. 2015	
SCALE: AS SHOWN	

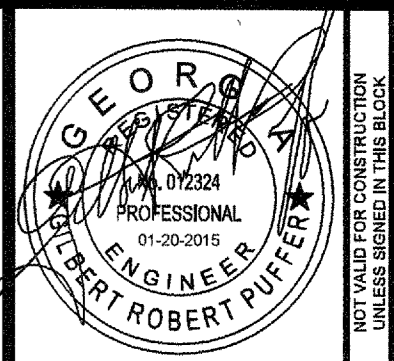
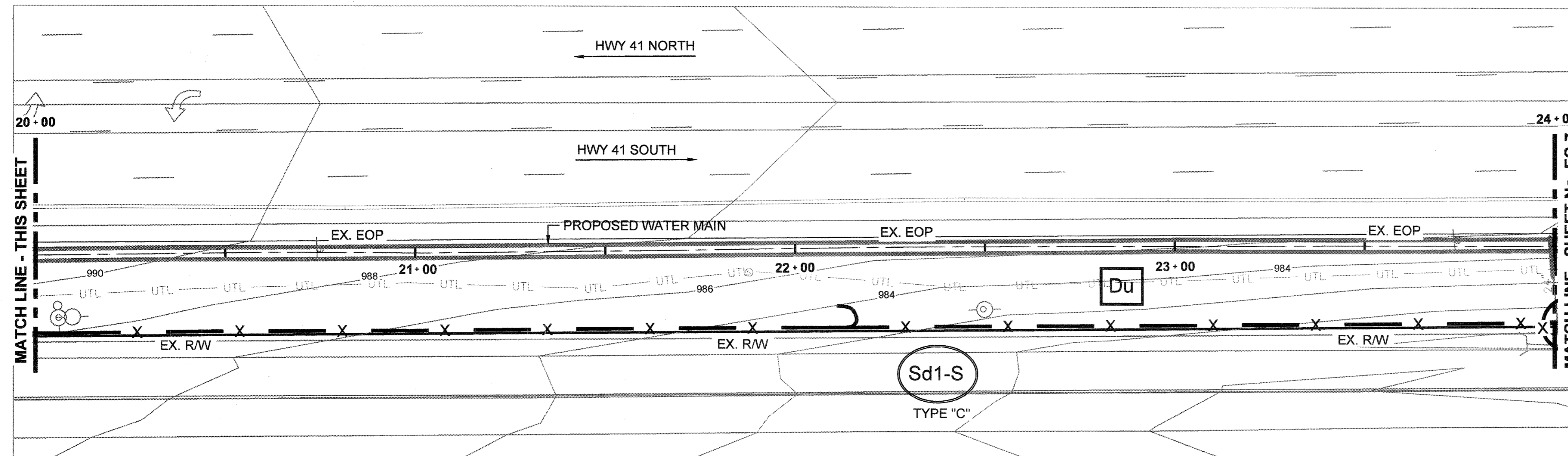
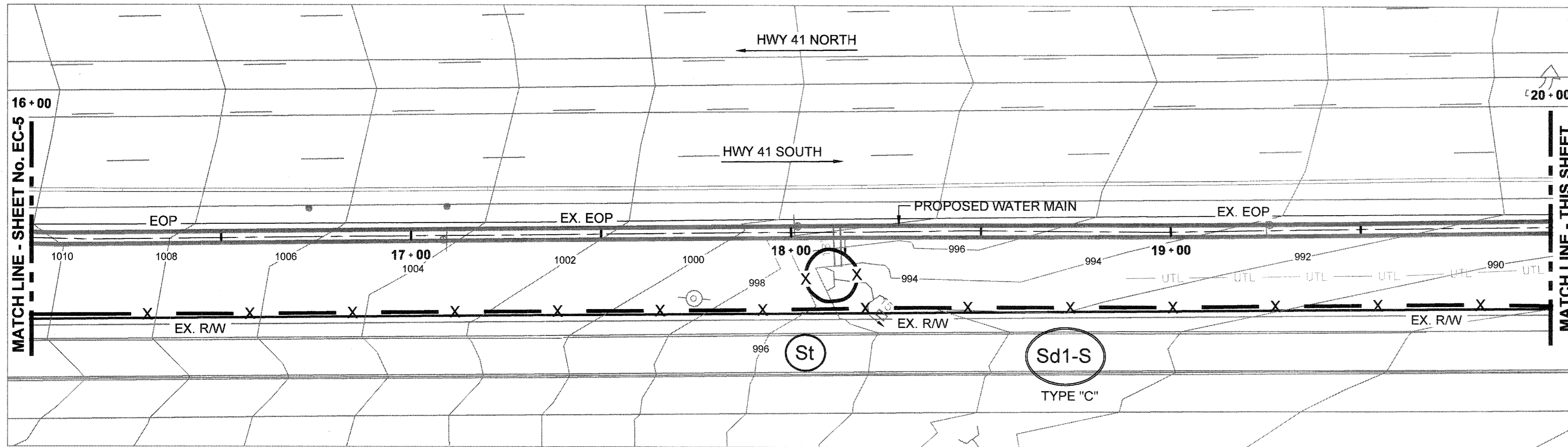
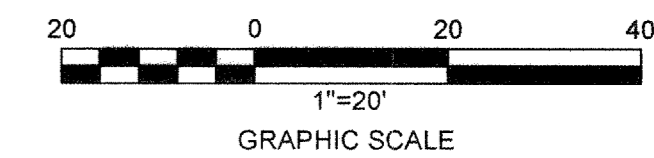
COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN

**EROSION CONTROL PLANS**

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SHEET No.  
**EC-5**  
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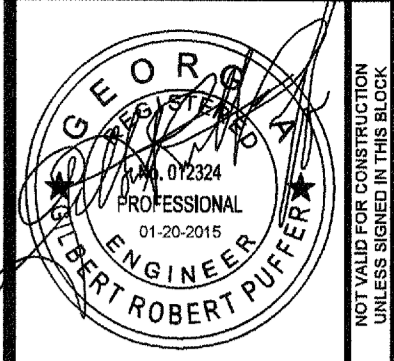
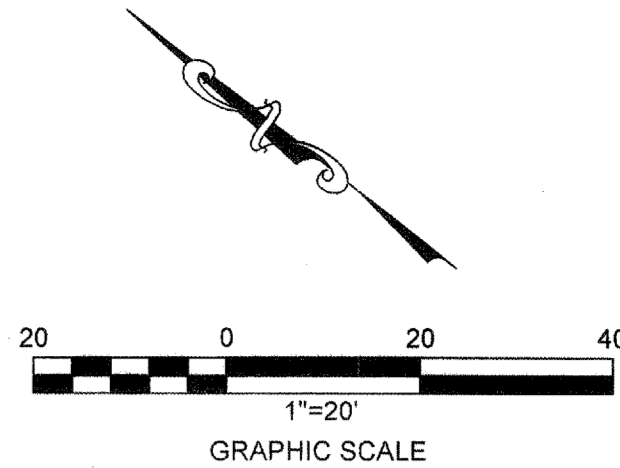
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GRP	AS SHOWN
APPROVED BY:	DATE:
JAN, 2015	

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN  
**EROSION CONTROL PLANS**

SHEET No.  
**EC-6**  
 100032548

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*Gilbert R. Puffer*  
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 EXPIRES NOV., 04, 2015.



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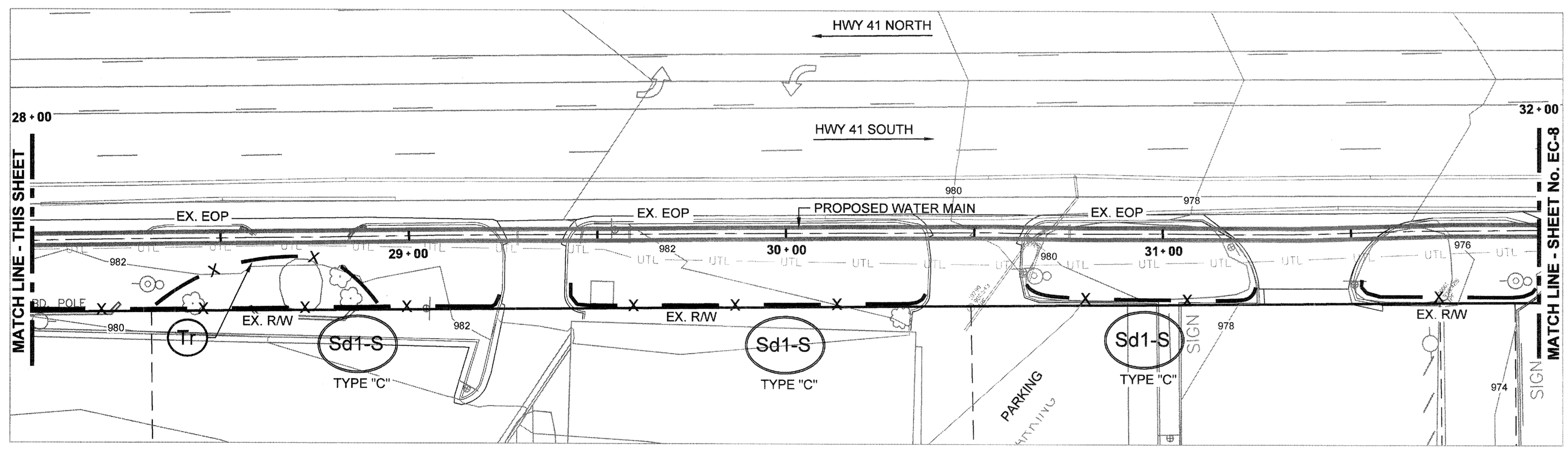
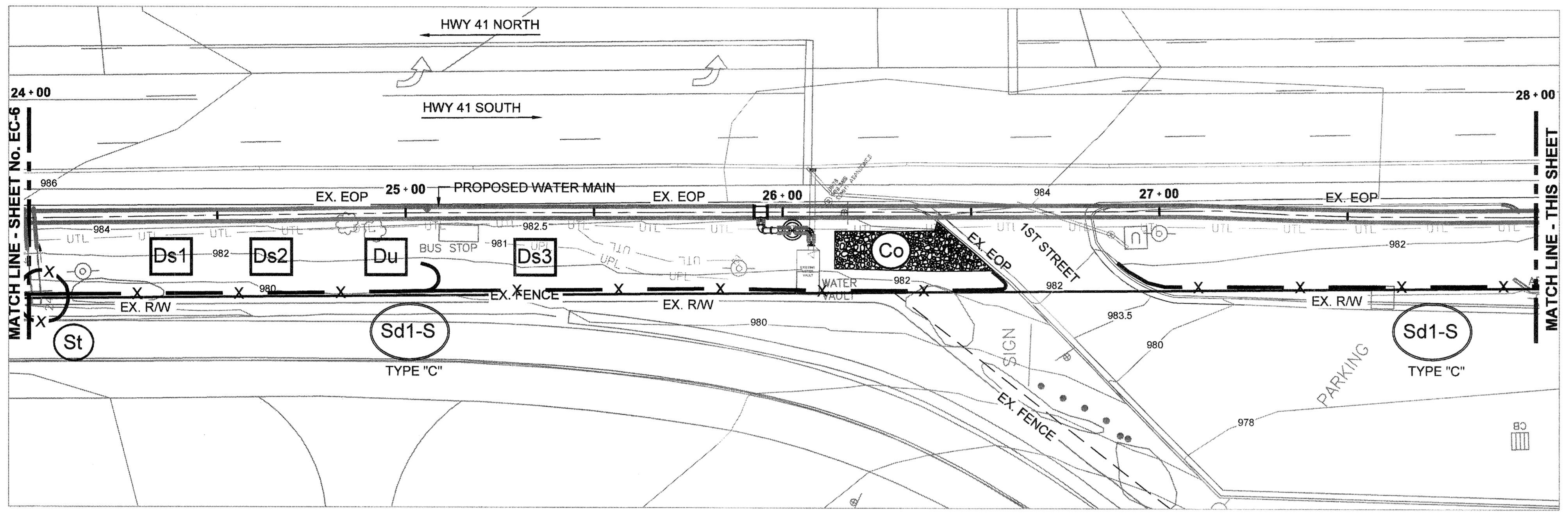
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COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN

PROJ. No.: 100032548  
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 DRAWN BY: JN  
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 DATE: JAN. 2015  
 SCALE: AS SHOWN

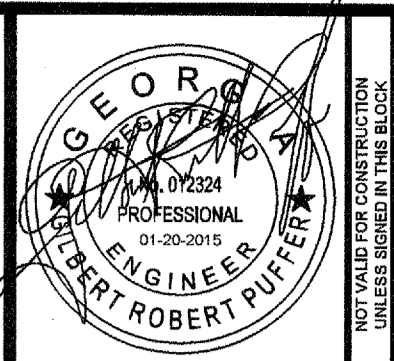
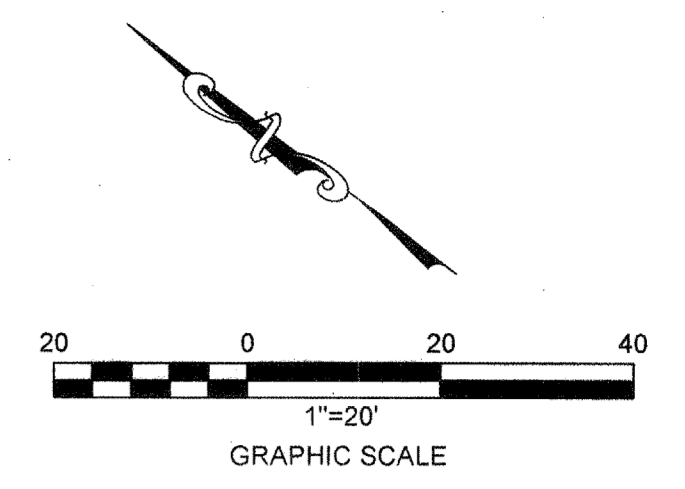
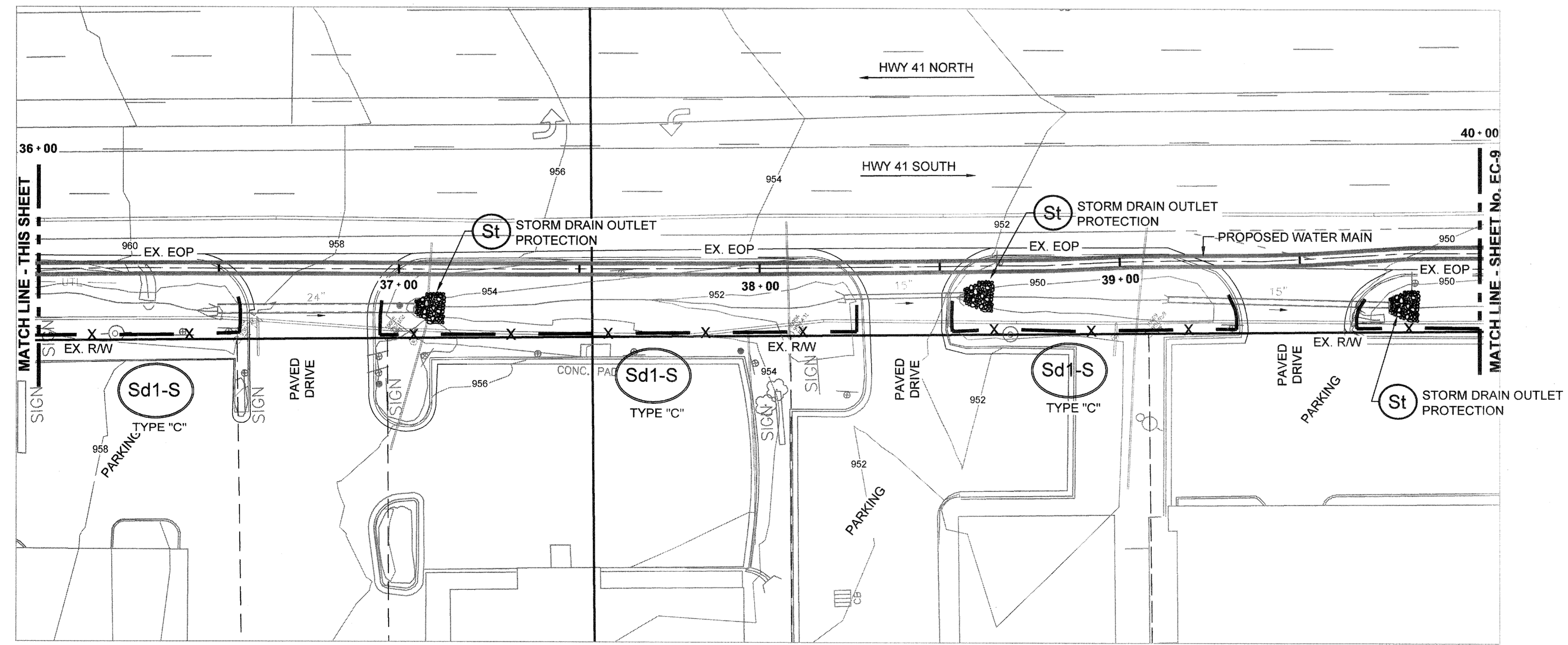
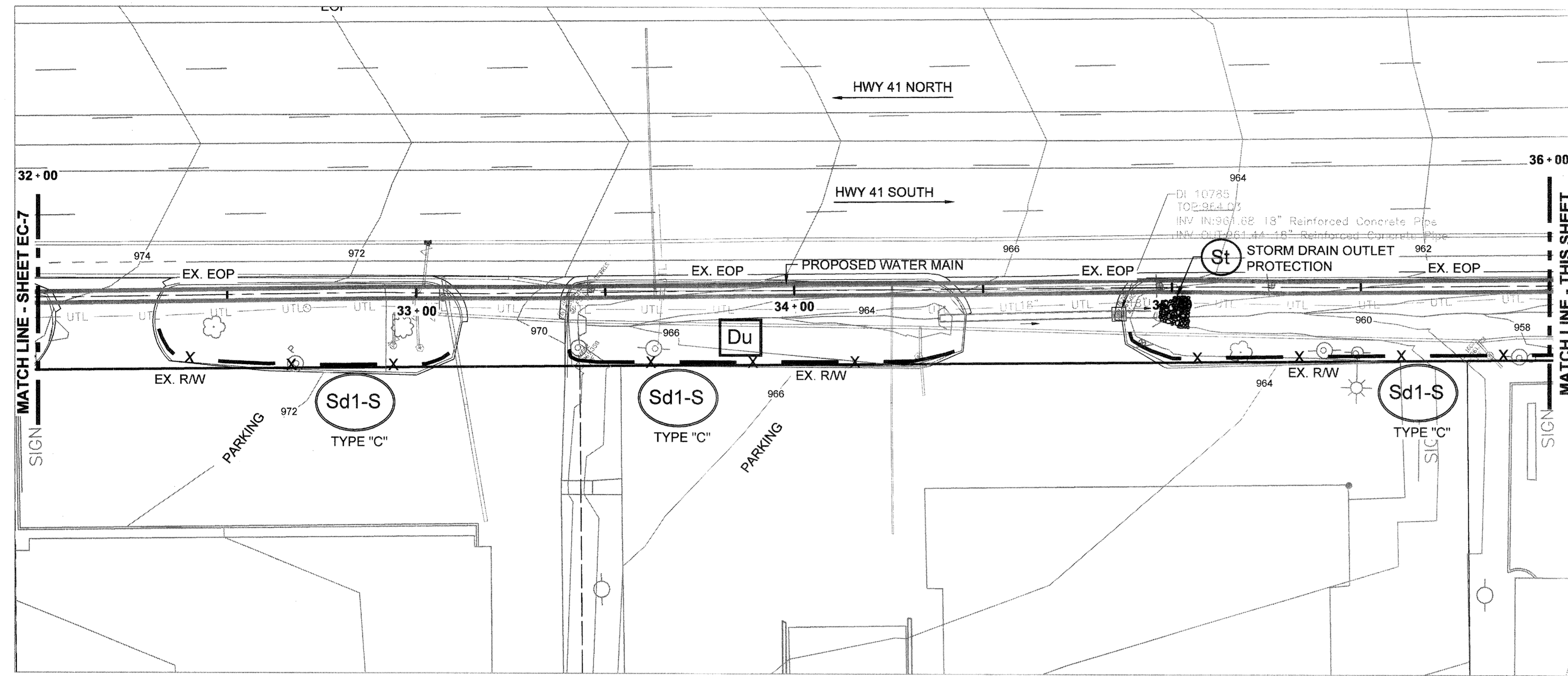
**EROSION CONTROL PLANS**

SHEET No.  
**EC-7**  
 100032548



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PROJ. No.:	DESIGNED BY:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:	SCALE:
100032548	GRP	JN	GRP	GRP	JAN, 2015	AS SHOWN

REVISION	EROSION CONTROL PERMIT SET	DATE
1		01/20/15

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN

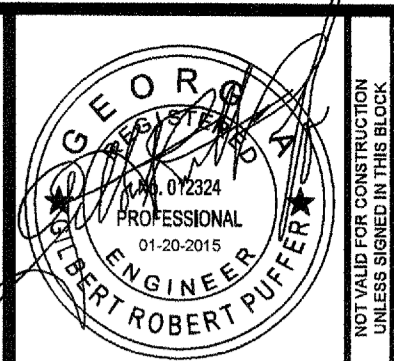
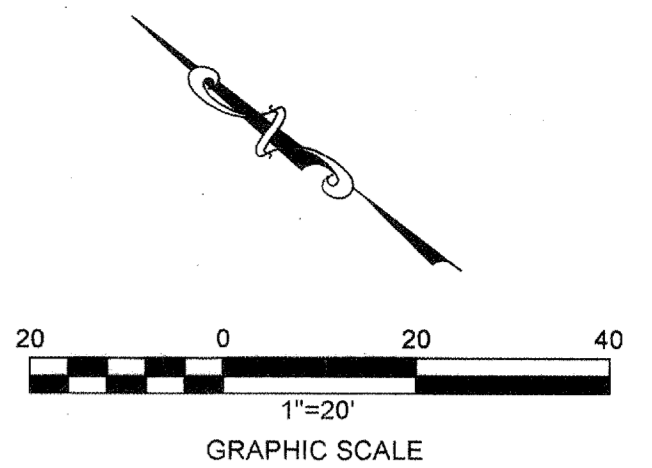
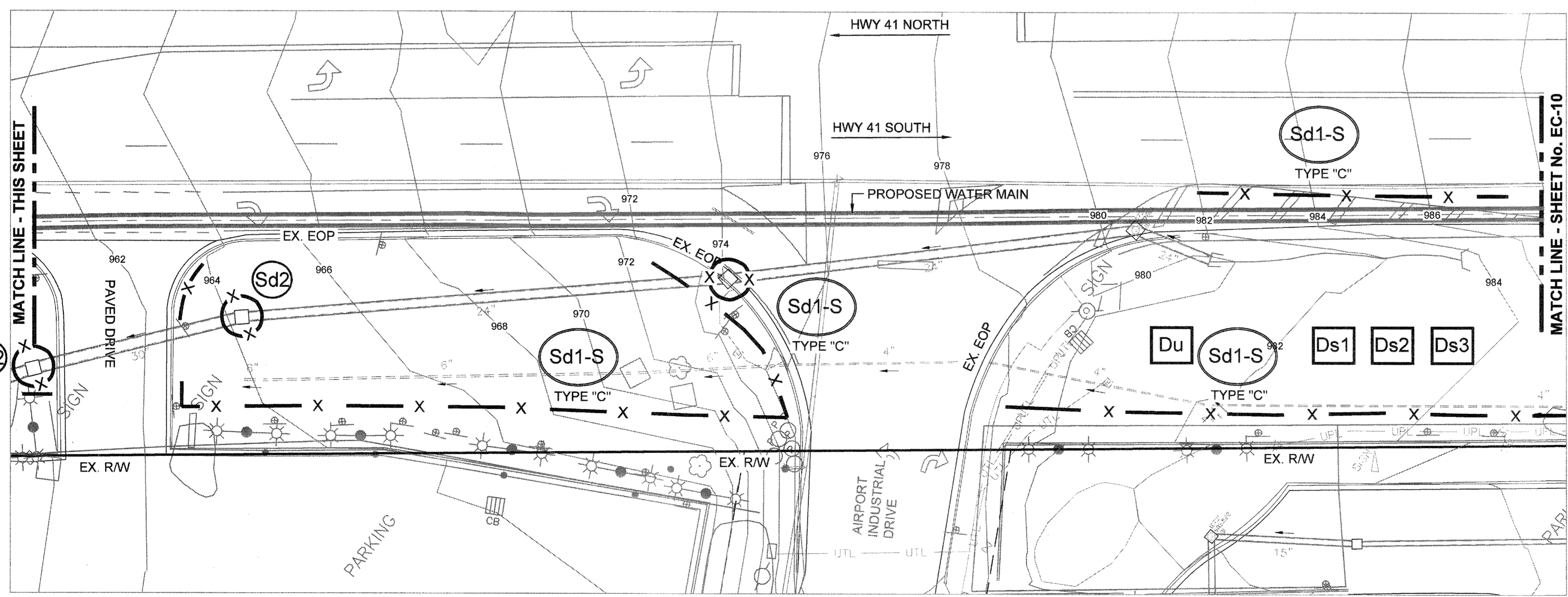
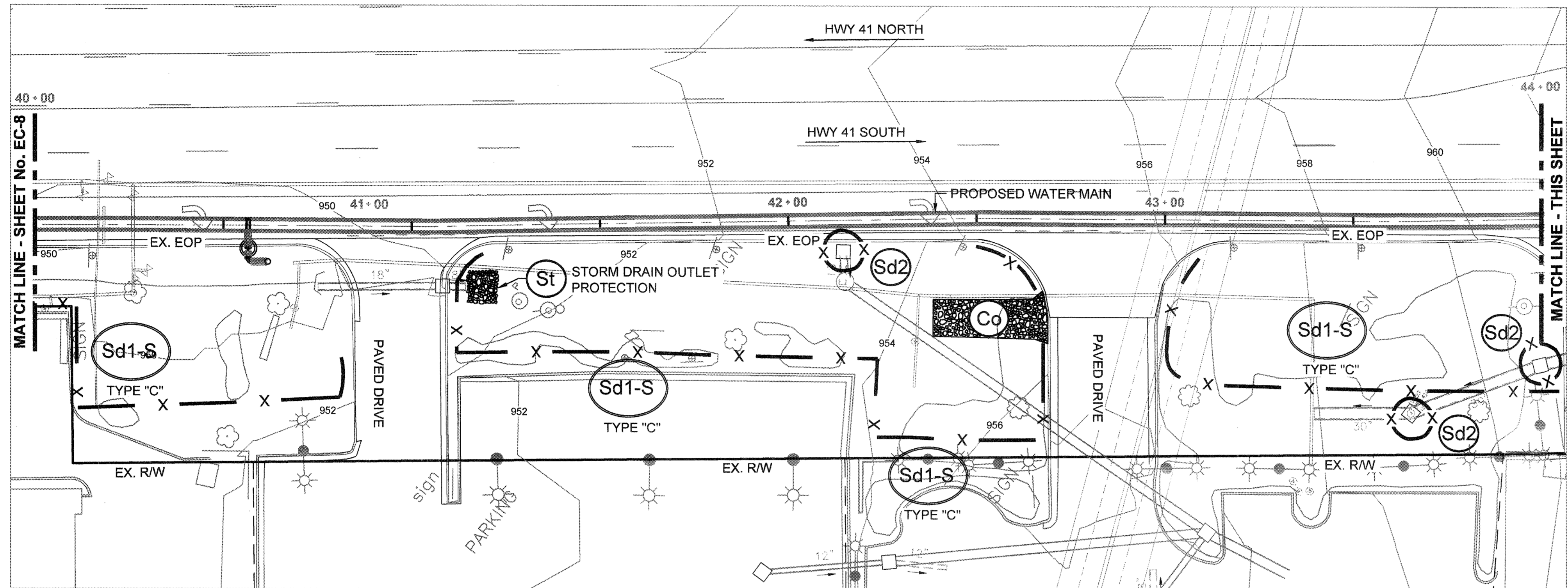
**EROSION CONTROL PLANS**

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*Gilbert R. Puffer*  
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 GAS/WCC LEVEL II CERTIFIED DESIGN PROFESSIONAL # 000021852  
 EXPIRES NOV., 04, 2015.

SHEET No.  
**EC-8**  
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 Atlanta, Georgia 30328  
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PROJ. No.	DATE
100032548	01/20/15
DESIGNED BY: GRP	
DRAWN BY: JN	
CHECKED BY: GRP	
APPROVED BY: GRP	
DATE: JAN. 2015	
SCALE: AS SHOWN	

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN

**EROSION CONTROL PLANS**

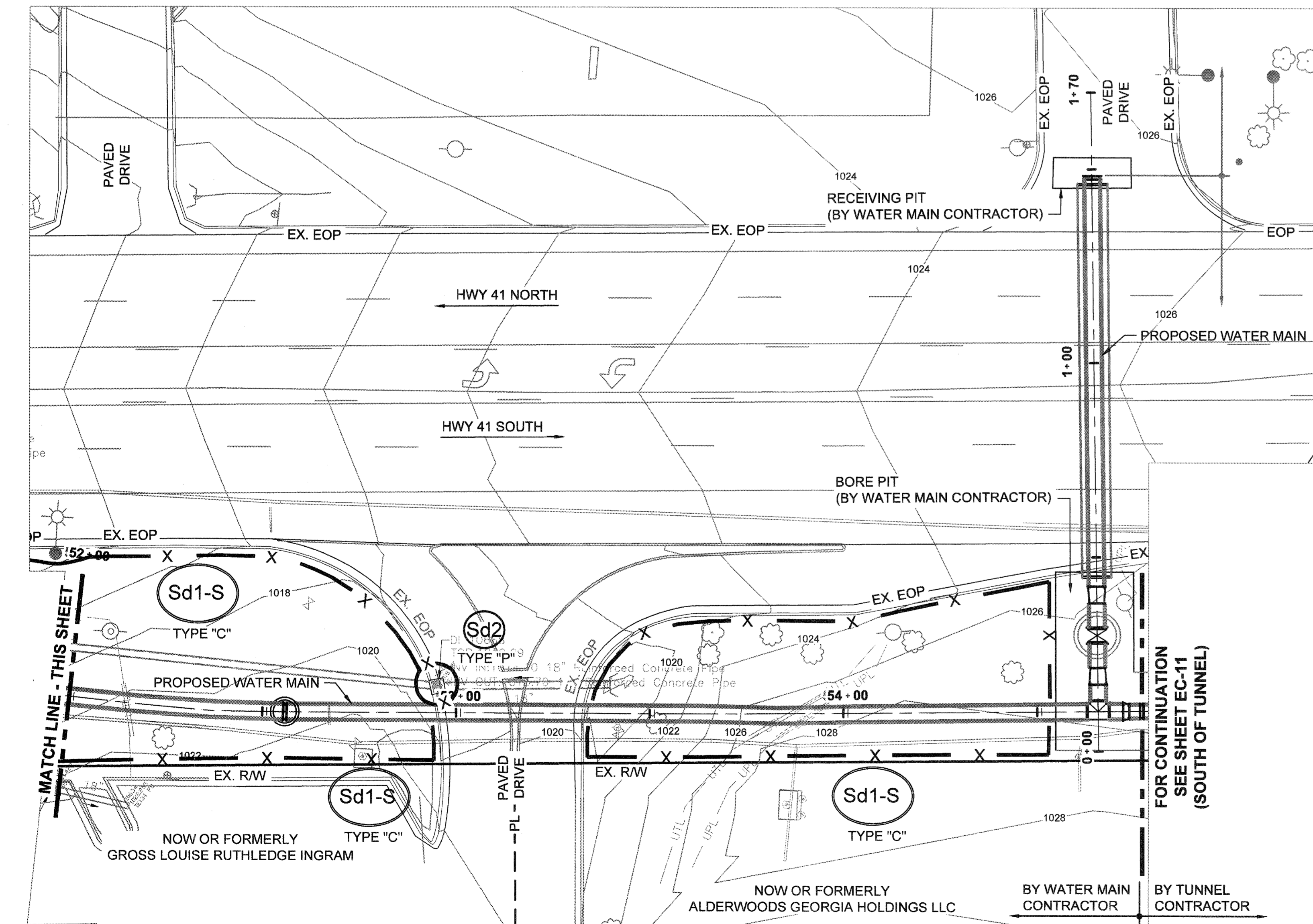
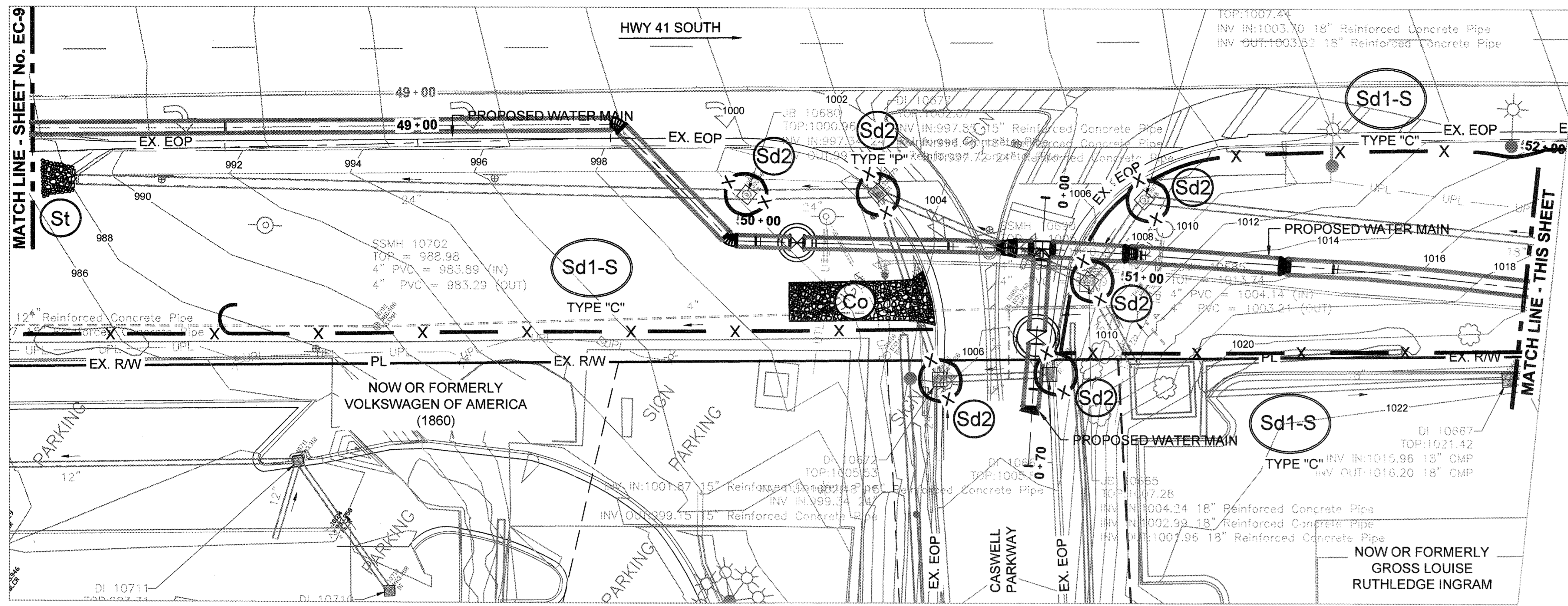
I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATION DESCRIBED HERIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

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 EXPIRES NOV., 04, 2015.

SHEET No.  
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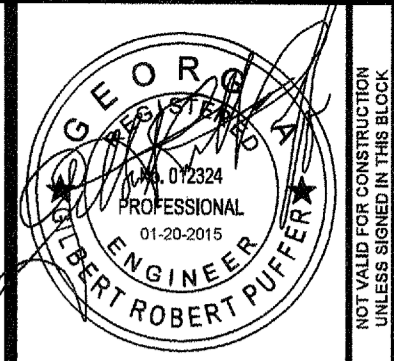
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I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATION DESCRIBED HERIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

*Gilbert R. Puffer*  
 GILBERT R. PUFFER, P.E.  
 GAS/WCC LEVEL II CERTIFIED DESIGN PROFESSIONAL # 000021852  
 EXPIRES NOV., 04, 2015.



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 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-833-0280

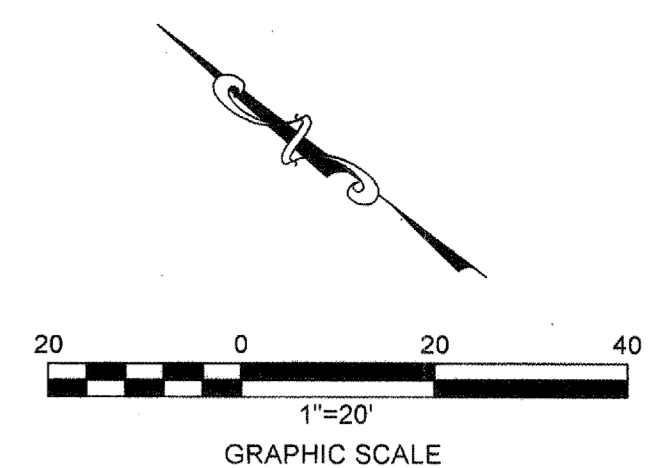
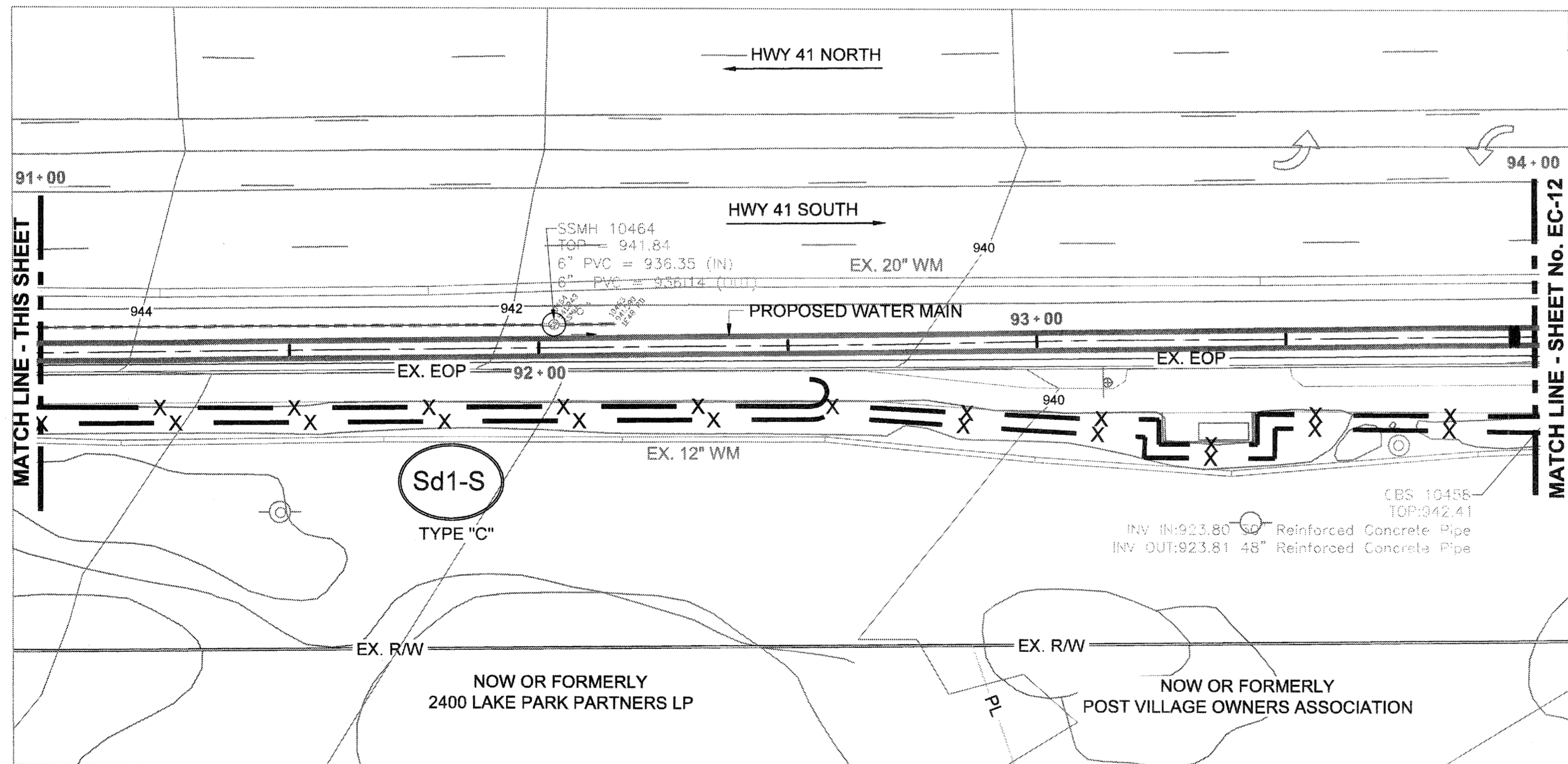
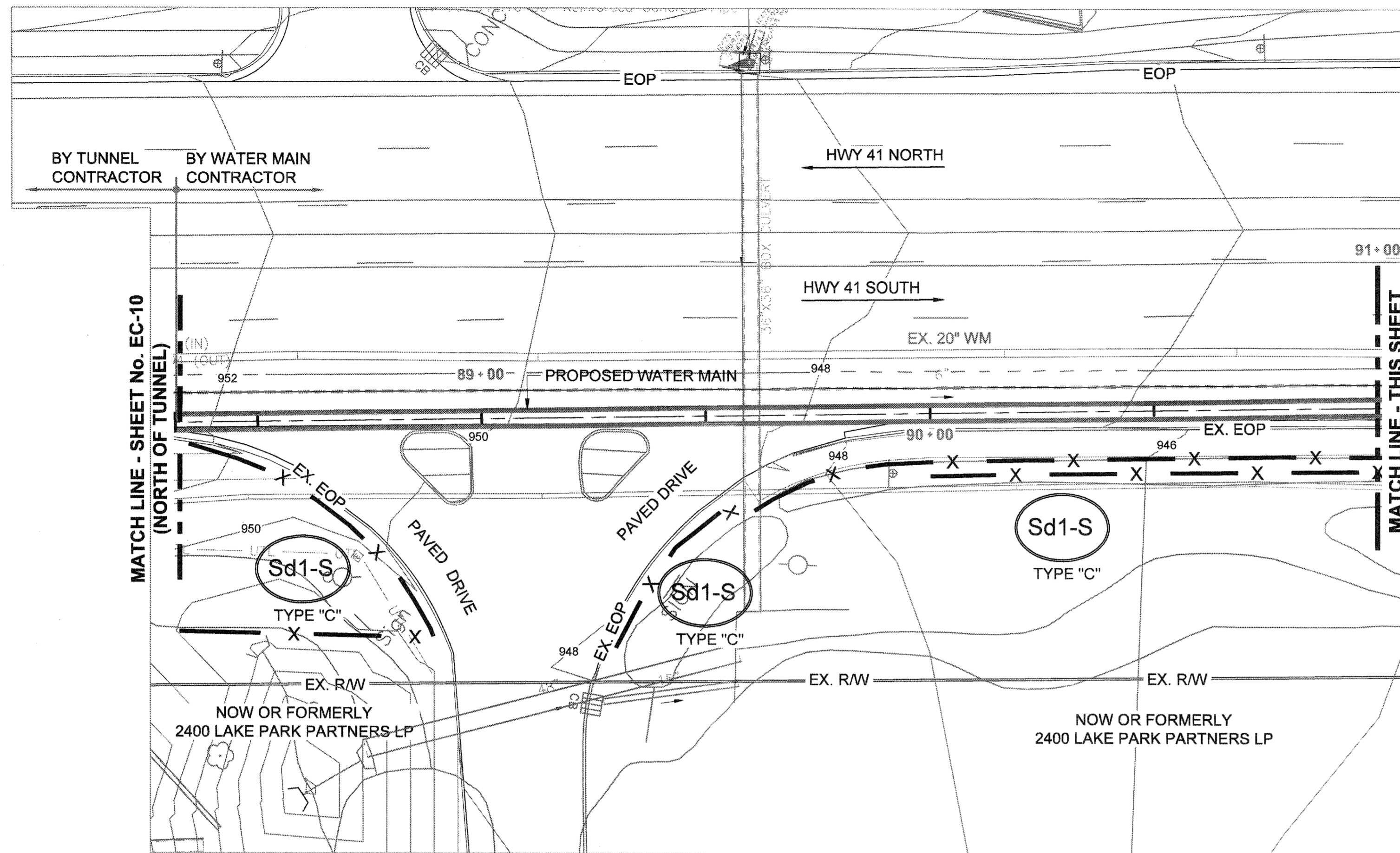


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DESIGNED BY:	GRP
DRAWN BY:	JN
CHECKED BY:	GRP
APPROVED BY:	GRP
DATE:	JAN, 2015
SCALE:	AS SHOWN
REVISION	EROSION CONTROL PERMIT SET
DATE	01/20/15

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN

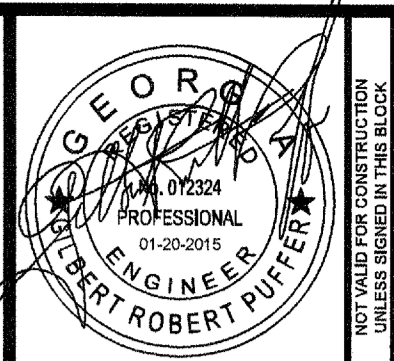
**EROSION CONTROL PLANS**

SHEET No.  
**EC-10**  
 100032548



I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATION DESCRIBED HERIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

*[Signature]*  
 GILBERT R. PUFFER, P.E.  
 GAS/WCC LEVEL II CERTIFIED DESIGN PROFESSIONAL # 000021852  
 EXPIRES NOV., 04, 2015.



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 P: 770-833-0280



PROJ. No.:	DESIGNED BY:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:	SCALE:
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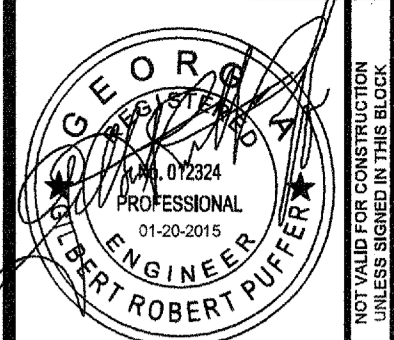
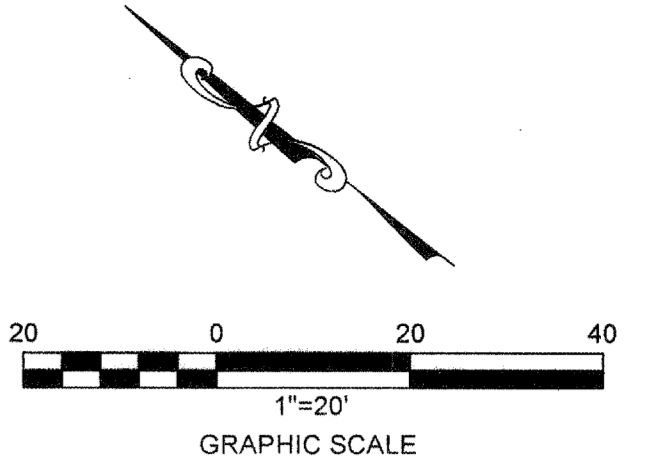
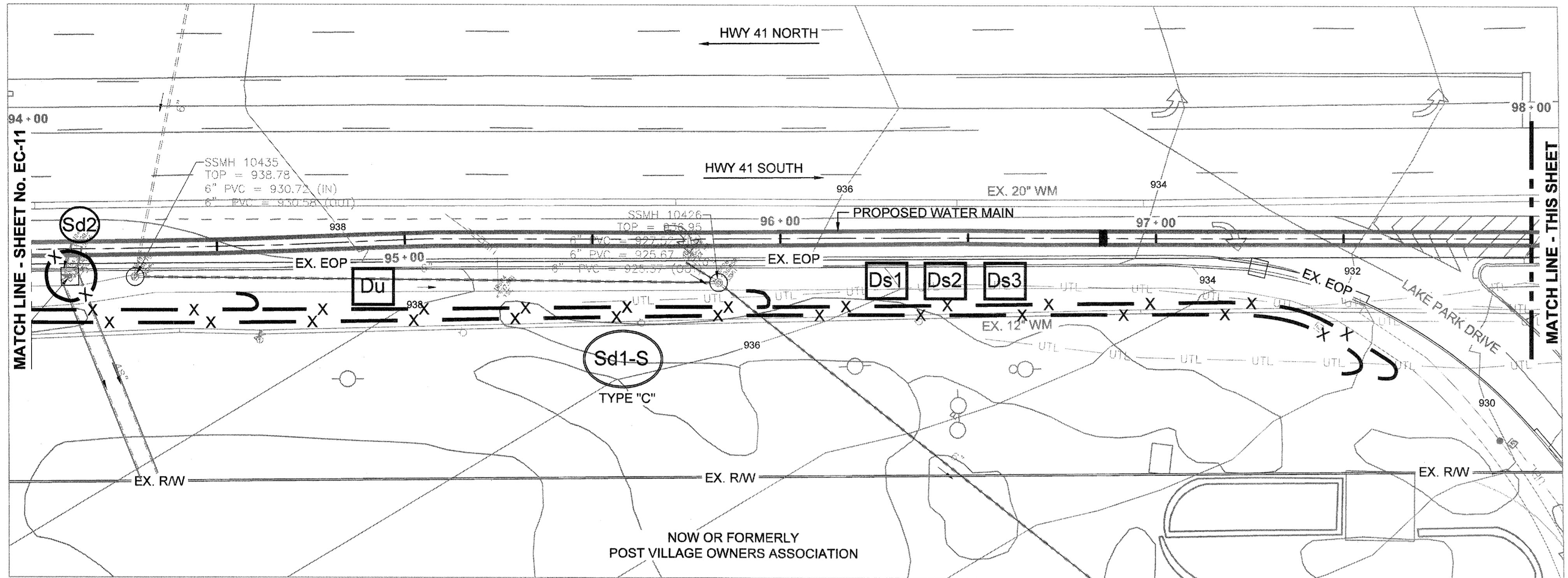
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COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN

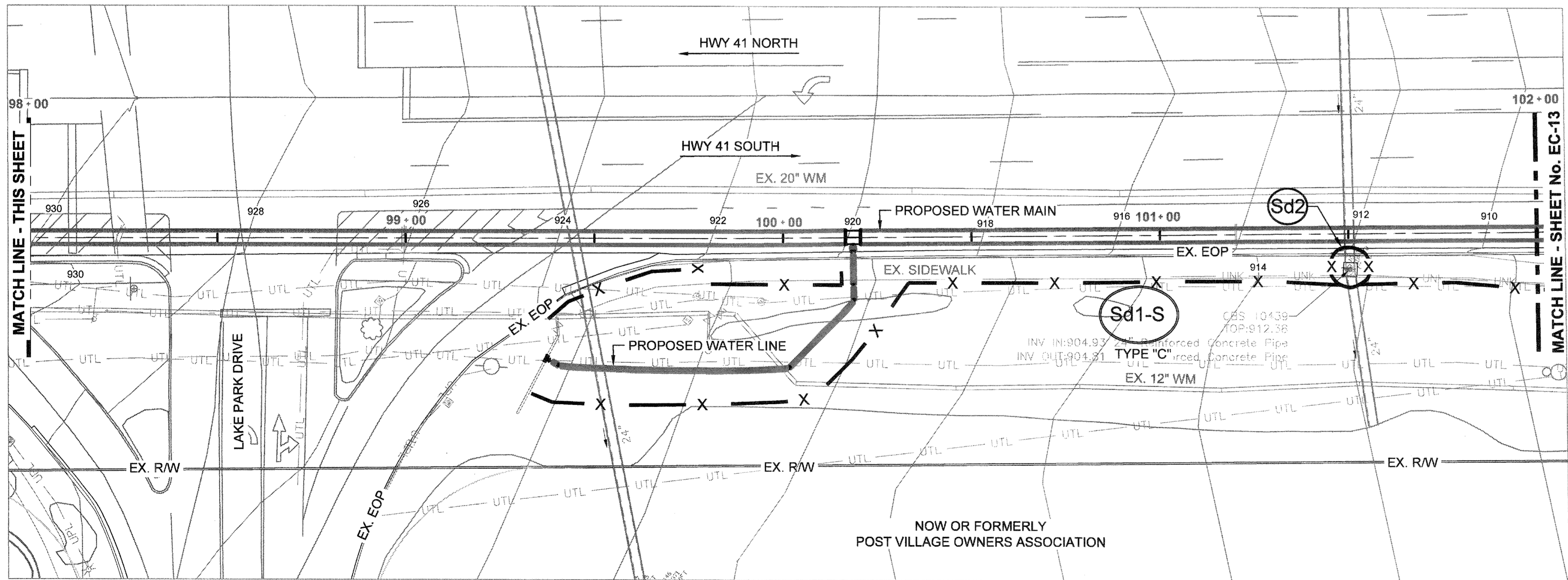
**EROSION CONTROL PLANS**

SHEET No.  
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I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATION DESCRIBED HERIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

*[Signature]*  
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 GAS/VCC LEVEL II CERTIFIED DESIGN PROFESSIONAL # 000021852  
 EXPIRES NOV., 04, 2015.

PROJ. No.:	DESIGNED BY:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:	SCALE:
100032548	GRP	JN	GRP	GRP	JAN. 2015	AS SHOWN

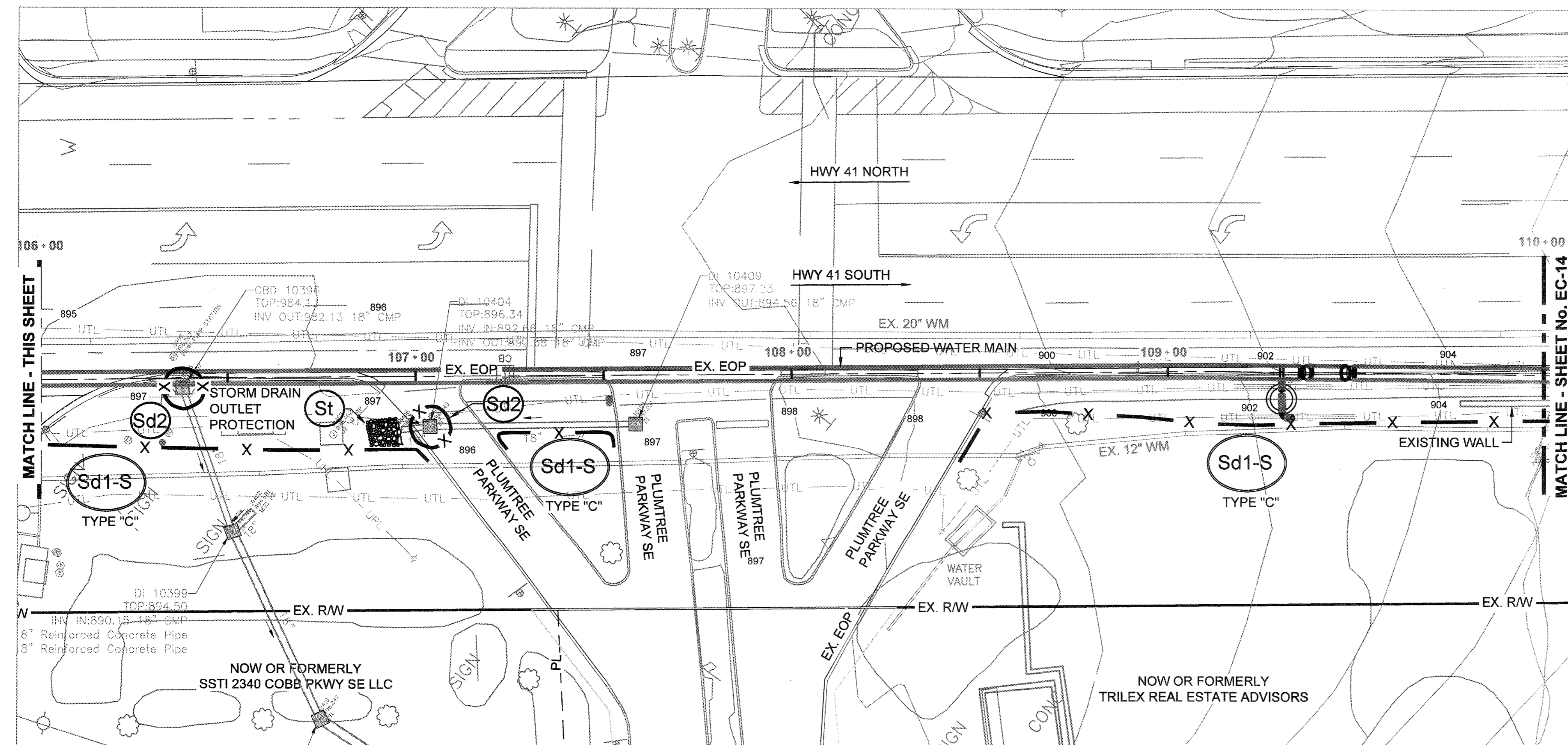
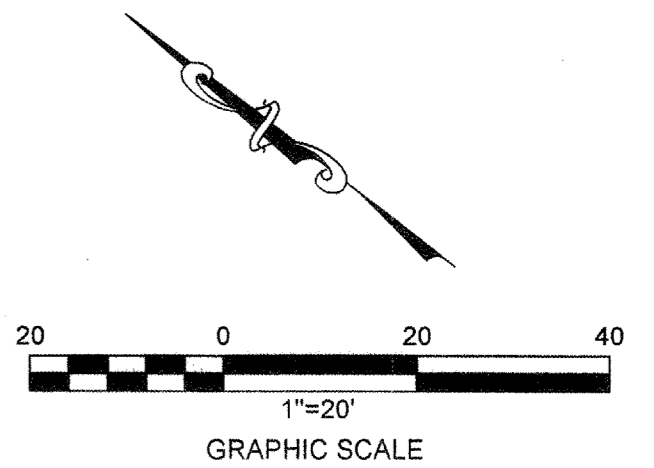
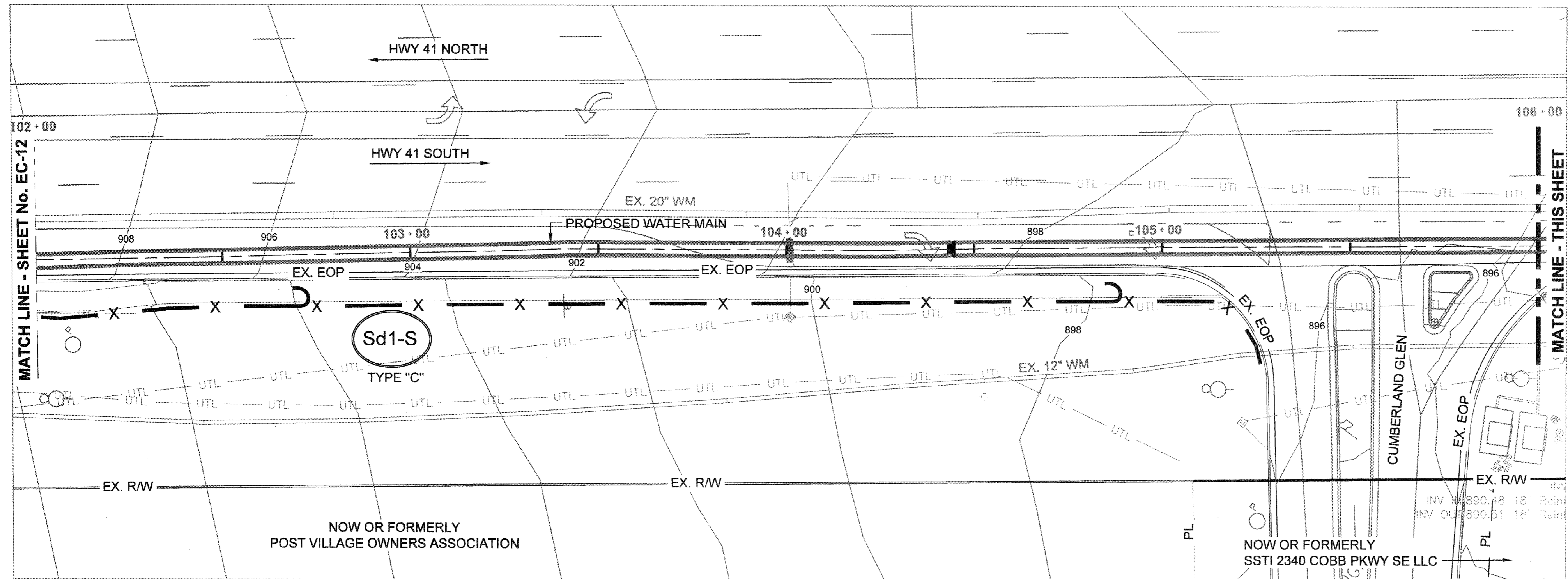
REVISION	DATE
EROSION CONTROL PERMIT SET	01/20/15

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN

**EROSION CONTROL PLANS**

SHEET No.  
**EC-12**  
 100032548

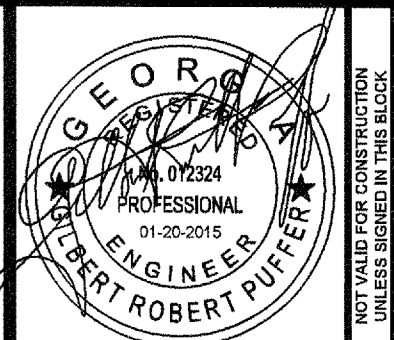
File Name: c:\p\_wor\ATKNAE101\NEW\7482\DWG1001\WATER MAINS - EC-4 THROUGH EC-16.DWG | Job: EC-12 | Plotter: February 20, 2015 9:44am



I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATION DESCRIBED HERIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

*Gilbert R. Puffer*

GILBERT R. PUFFER, P.E.  
 GAS/WCC LEVEL II CERTIFIED DESIGN PROFESSIONAL # 000021852  
 EXPIRES NOV., 04, 2015.



**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-933-0280



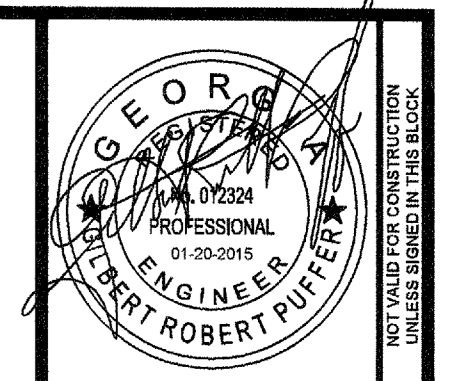
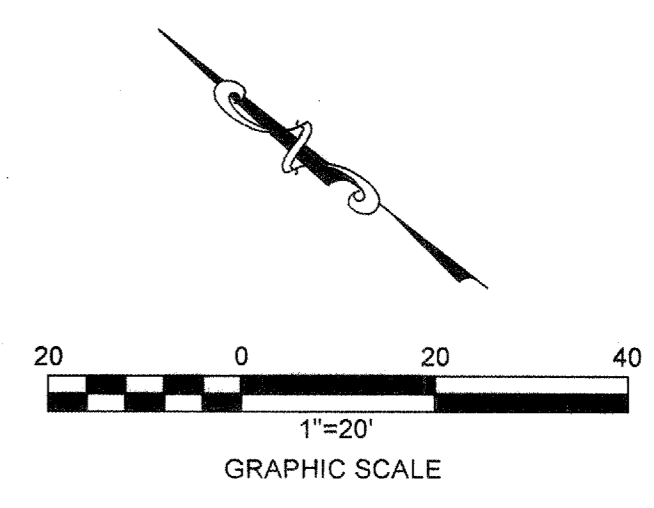
PROJ. No.:	DATE
100032548	01/20/15
DESIGNED BY: GRP	EROSION CONTROL PERMIT SET
DRAWN BY: JN	
CHECKED BY: GRP	
APPROVED BY: GRP	
DATE: JAN. 2015	
SCALE: AS SHOWN	

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN

**EROSION CONTROL PLANS**

SHEET No.  
**EC-13**  
 100032548

File Name: C:\PW\_WORK\ATKNAE1\1\NEW\7482\DWG\1001\WATER MAINS - EC-4 THROUGH EC-16.DWG Job: EC-13 Plotted: February 20, 2015 9:47am



**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-933-0280

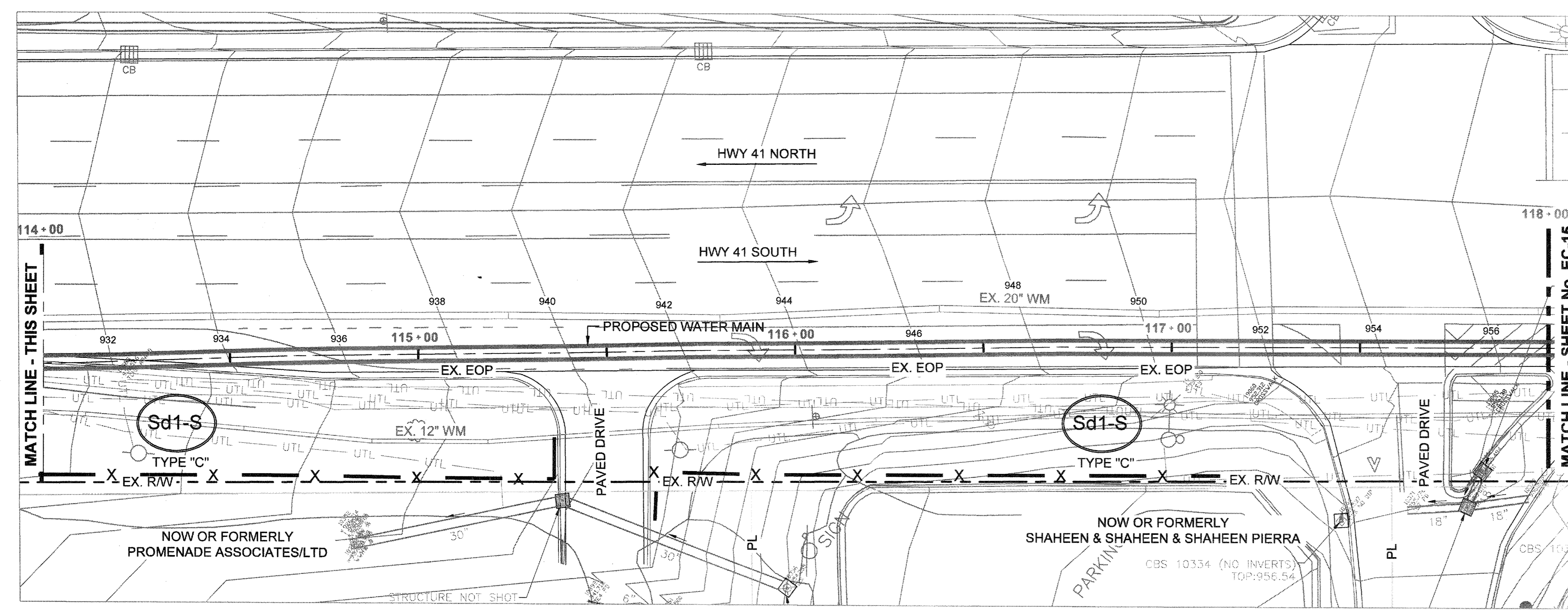
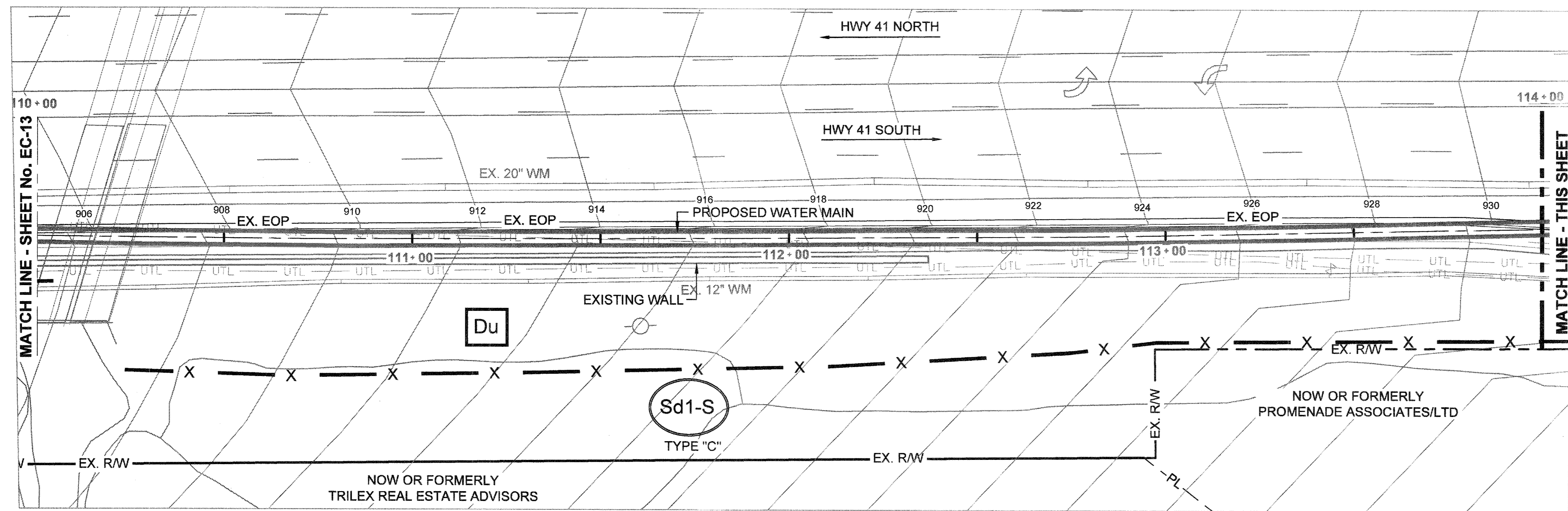


PROJ. No.:	100032548
DESIGNED BY:	GRP
DRAWN BY:	JN
CHECKED BY:	GRP
APPROVED BY:	GRP
DATE:	JAN. 2015
SCALE:	AS SHOWN
REVISION	EROSION CONTROL PERMIT SET
DATE	01/20/15

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN

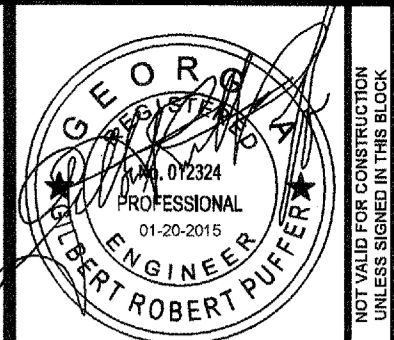
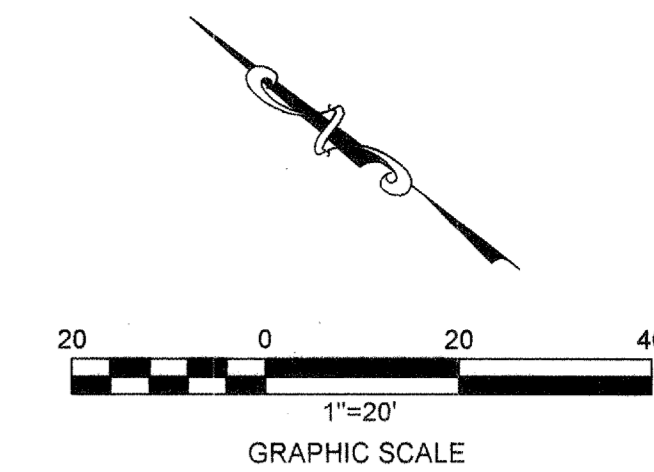
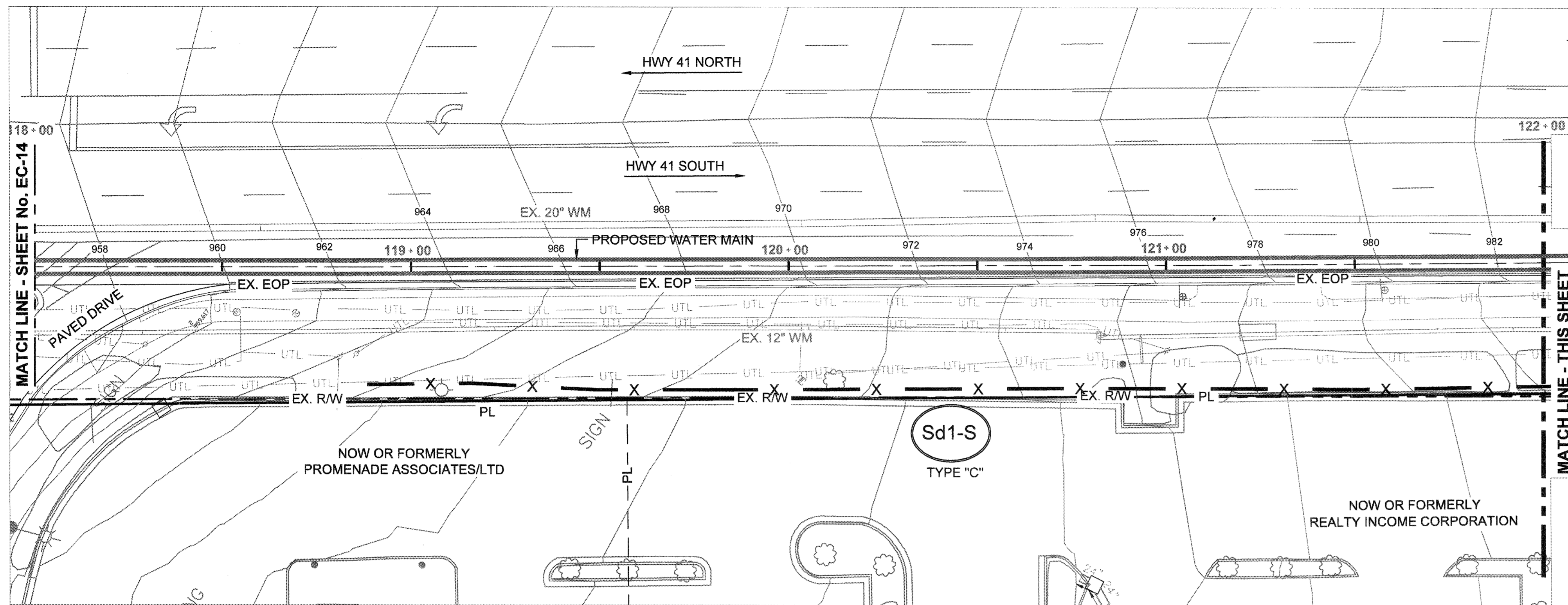
**EROSION CONTROL PLANS**

SHEET No.  
**EC-14**  
 100032548

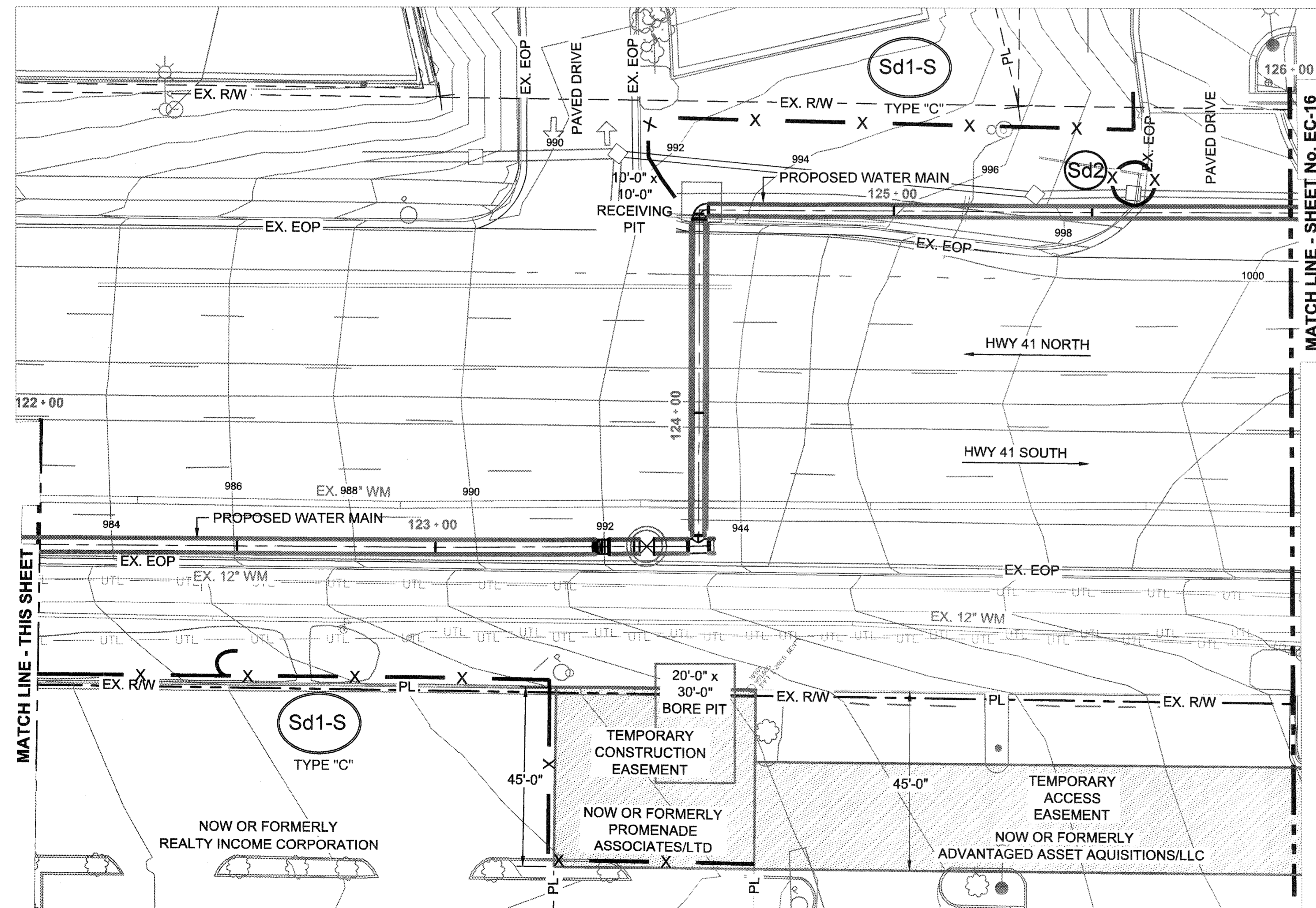


I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATION DESCRIBED HERIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

*Gilbert R. Puffer*  
 GILBERT R. PUFFER, P.E.  
 GAS/WCC LEVEL II CERTIFIED DESIGN PROFESSIONAL # 000021852  
 EXPIRES NOV., 04, 2015.



**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-833-0280



I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATION DESCRIBED HERIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

*[Signature]*  
 GILBERT R. PUFFER, P.E.  
 GAS/WCC LEVEL II CERTIFIED DESIGN PROFESSIONAL # 000021852  
 EXPIRES NOV., 04, 2015.

PROJ. No.:	DESIGNED BY:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:	SCALE:
100032548	GRP	JN	GRP	GRP	JAN. 2015	AS SHOWN

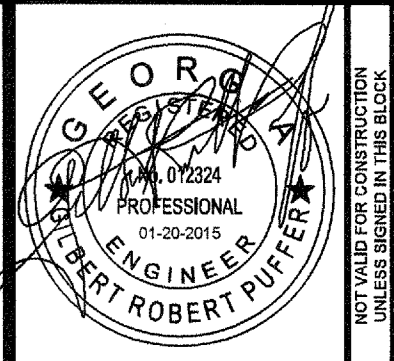
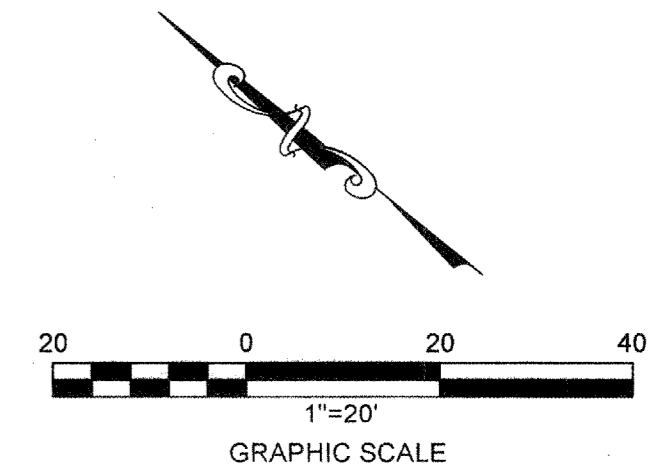
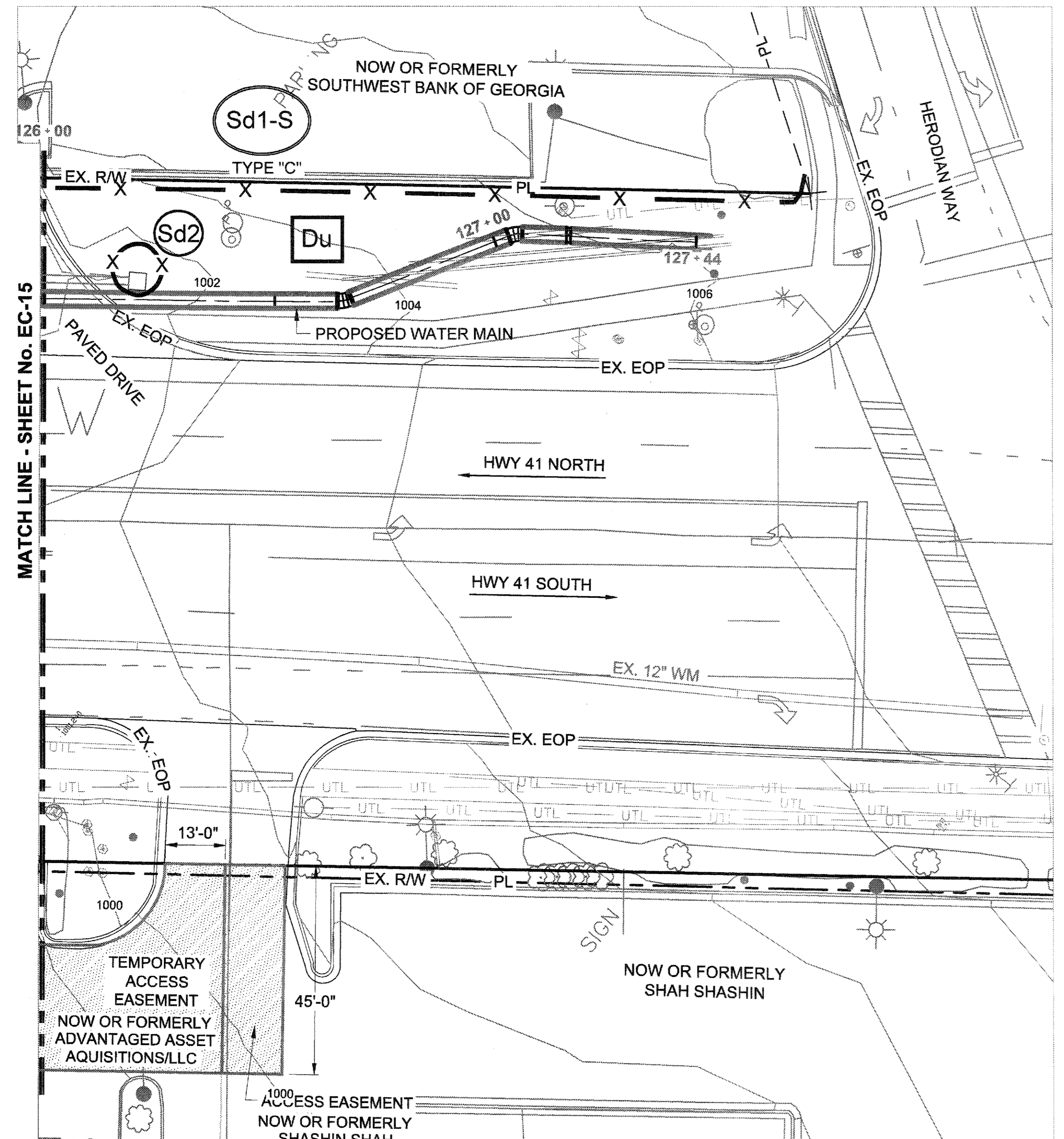
REVISION	DATE
EROSION CONTROL PERMIT SET	01/20/15

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN

**EROSION CONTROL PLANS**

SHEET No.  
**EC-15**  
 100032548

File Name: C:\PW\_WORK\ATKINA\EC15\WATER MAINS - EC-15.dwg; Plotter: February 20, 2015 10:00am



**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-833-0280



PROJ. No.:	DESIGNED BY:	CHECKED BY:	APPROVED BY:	DATE:	SCALE:
100032548	GRP	JN	GRP	JAN, 2015	AS SHOWN

REVISION	DATE
1	01/20/15

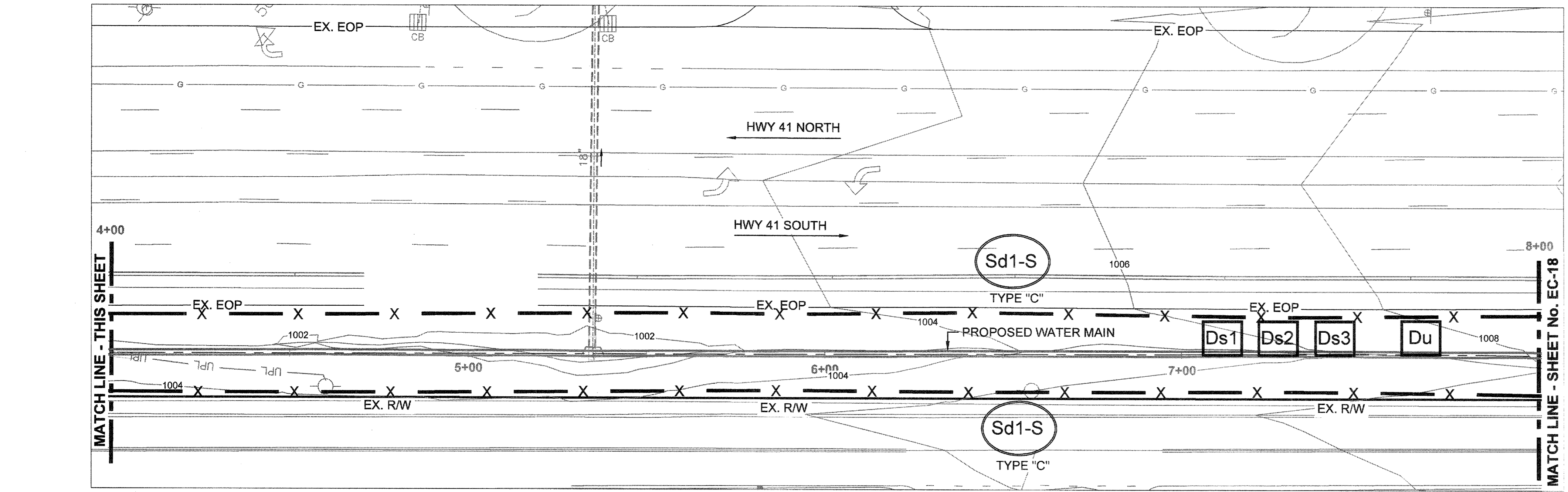
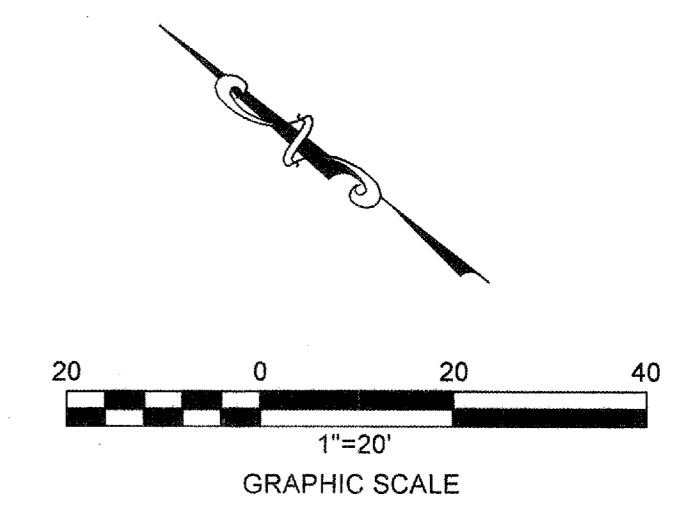
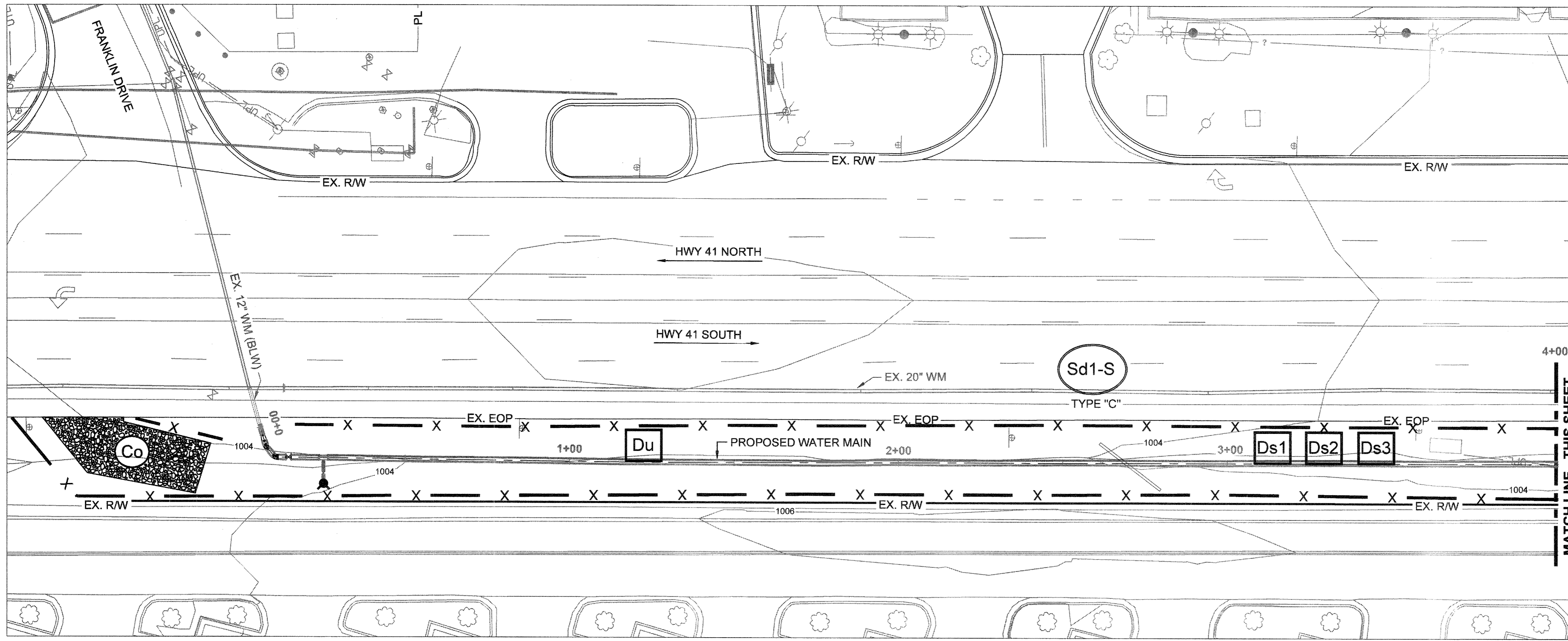
COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN

**EROSION CONTROL PLAN**

SHEET No.  
**EC-16**  
 100032548

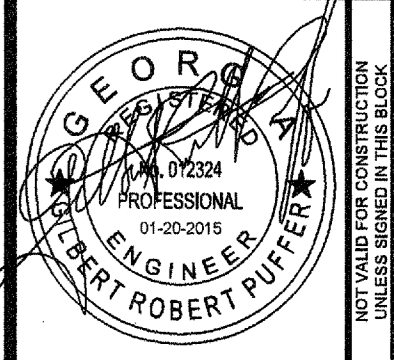
I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATION DISCRIBED HERIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

*[Signature]*  
 GILBERT R. PUFFER, P.E.  
 GASWCC LEVEL II CERTIFIED DESIGN PROFESSIONAL # 000021852  
 EXPIRES NOV., 04, 2015.



I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATION DESCRIBED HERIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

*Gilbert R. Puffer*  
 GILBERT R. PUFFER, P.E.  
 GASVCC LEVEL II CERTIFIED DESIGN PROFESSIONAL # 000021852  
 EXPIRES NOV., 04, 2015.



**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-833-0280



PROJ. No.	DATE
100032548	01/20/15

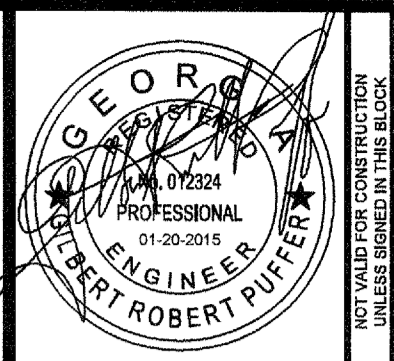
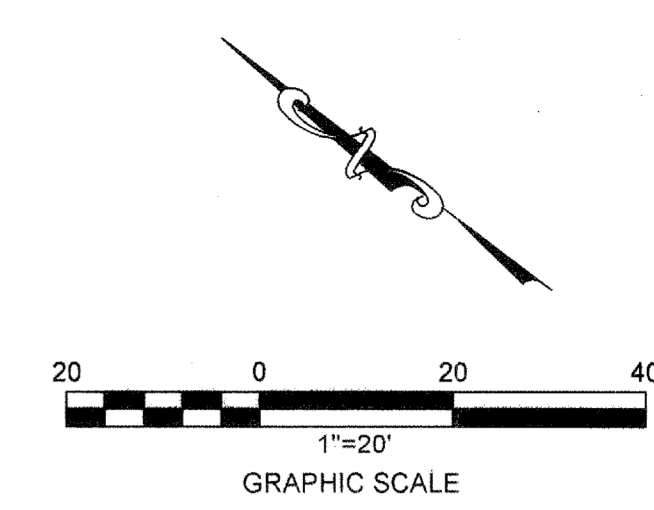
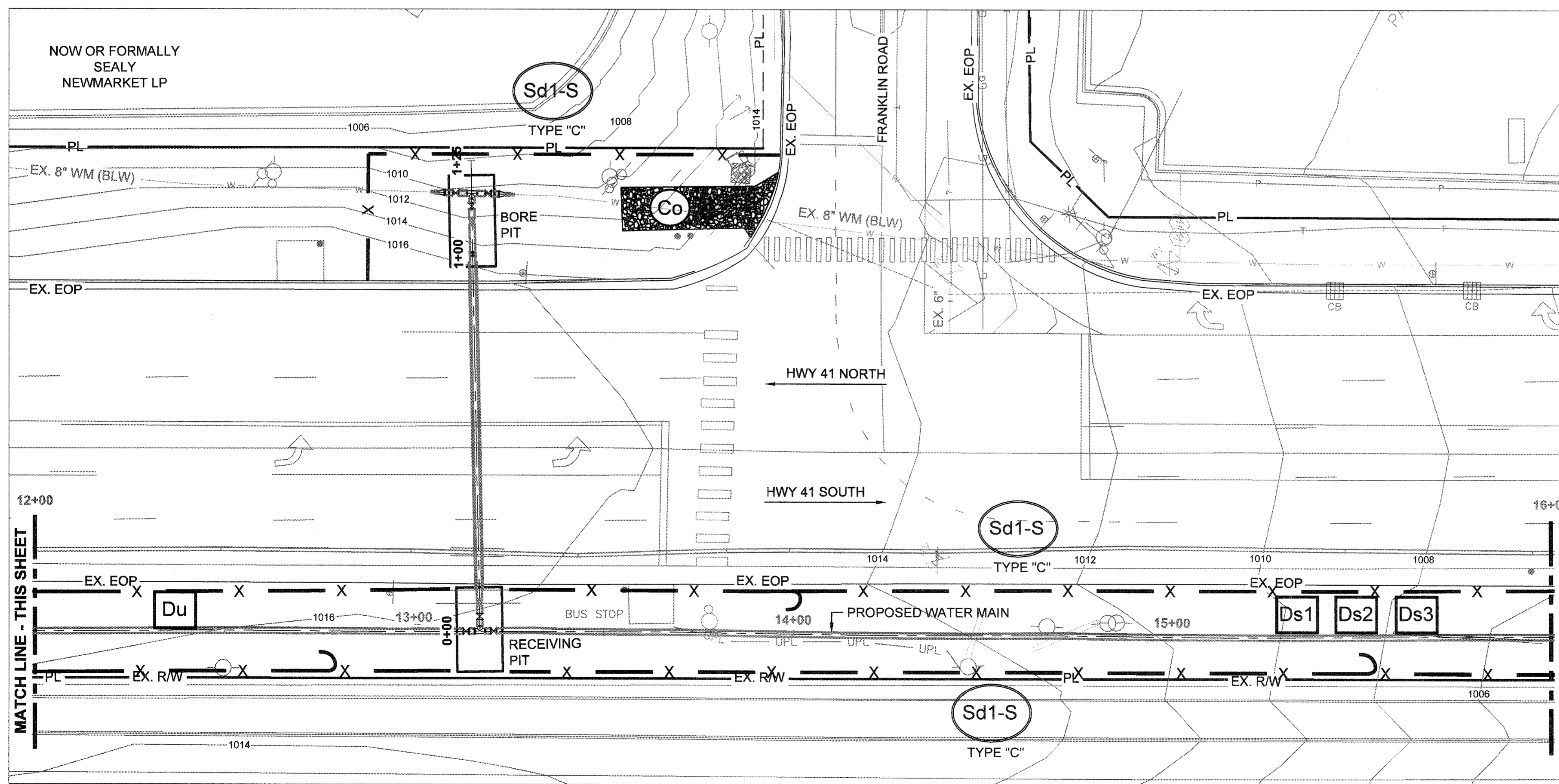
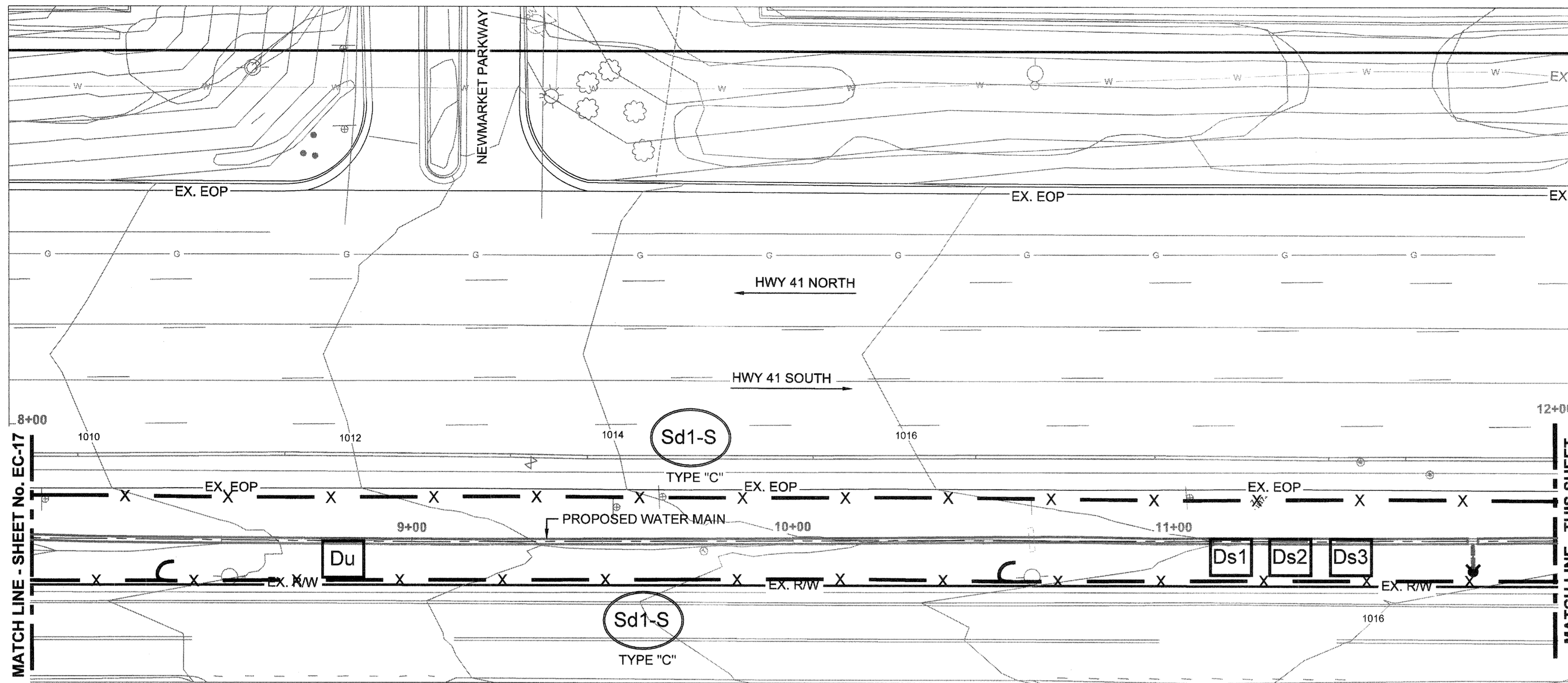
DESIGNED BY:	REVISION
GRP	EROSION CONTROL PERMIT SET
JN	
GRP	
JAN, 2015	
AS SHOWN	

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN

**EROSION CONTROL PLANS**

SHEET No.  
**EC-17**  
 100032548





**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-833-0280



PROJ. No.	DESIGNED BY	CHECKED BY	APPROVED BY	DATE	SCALE
100032548	GRP	JN	GRP	JAN, 2015	AS SHOWN

REVISION	DATE
EROSION CONTROL PERMIT SET	01/20/15

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN

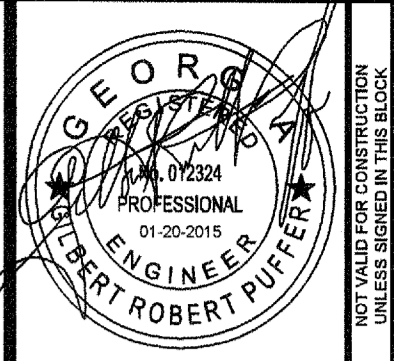
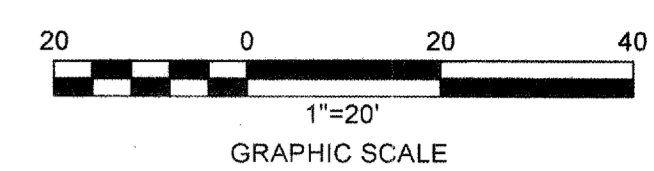
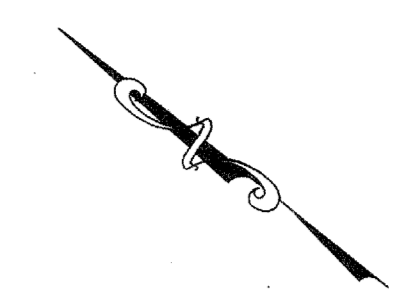
**EROSION CONTROL PLANS**

SHEET No.  
**EC-18**  
 100032548

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATION DESCRIBED HERIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

*Gilbert R. Puffer*  
 GILBERT R. PUFFER, P.E.  
 GAS/WCC LEVEL II CERTIFIED DESIGN PROFESSIONAL # 000021852  
 EXPIRES NOV., 04, 2015.

File Name: C:\PW\_WORK\ATKINA\01\NEWMA\482\MSD1051\EC-17 THROUGH EC-23.DWG | Tab: EC-18 | Plotter: February 20, 2015 10:18am



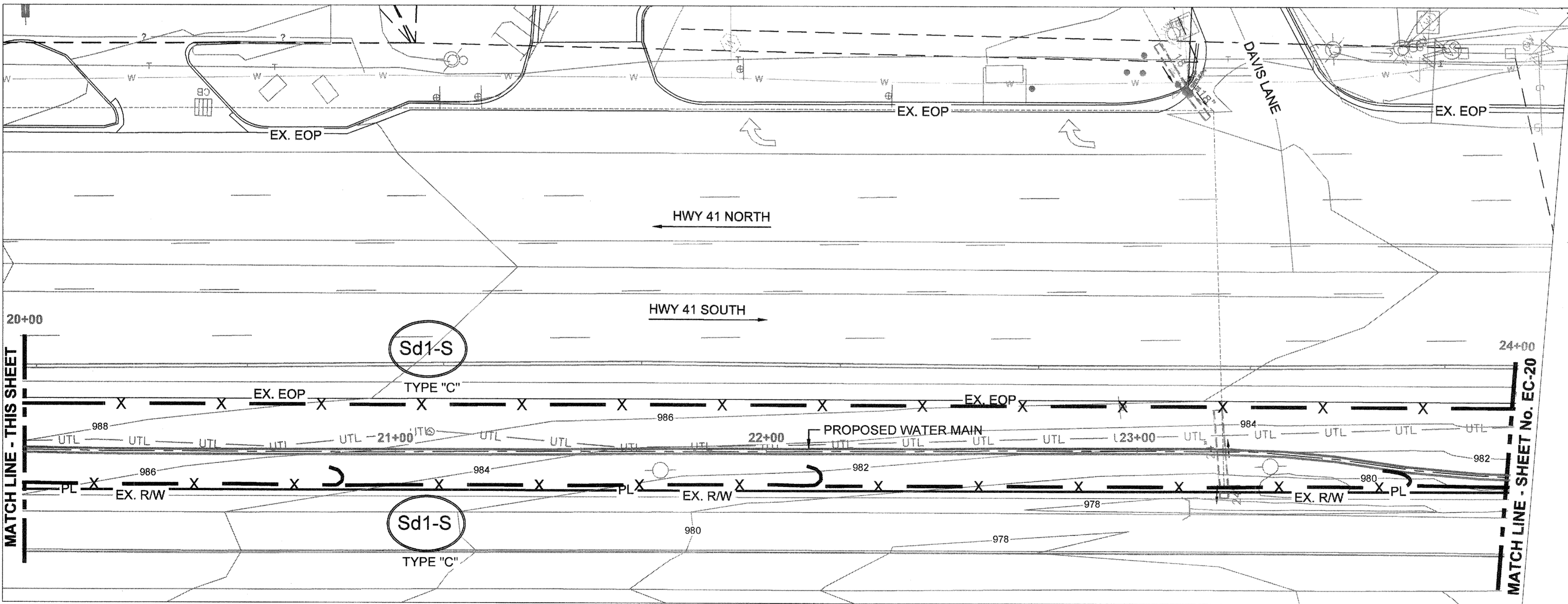
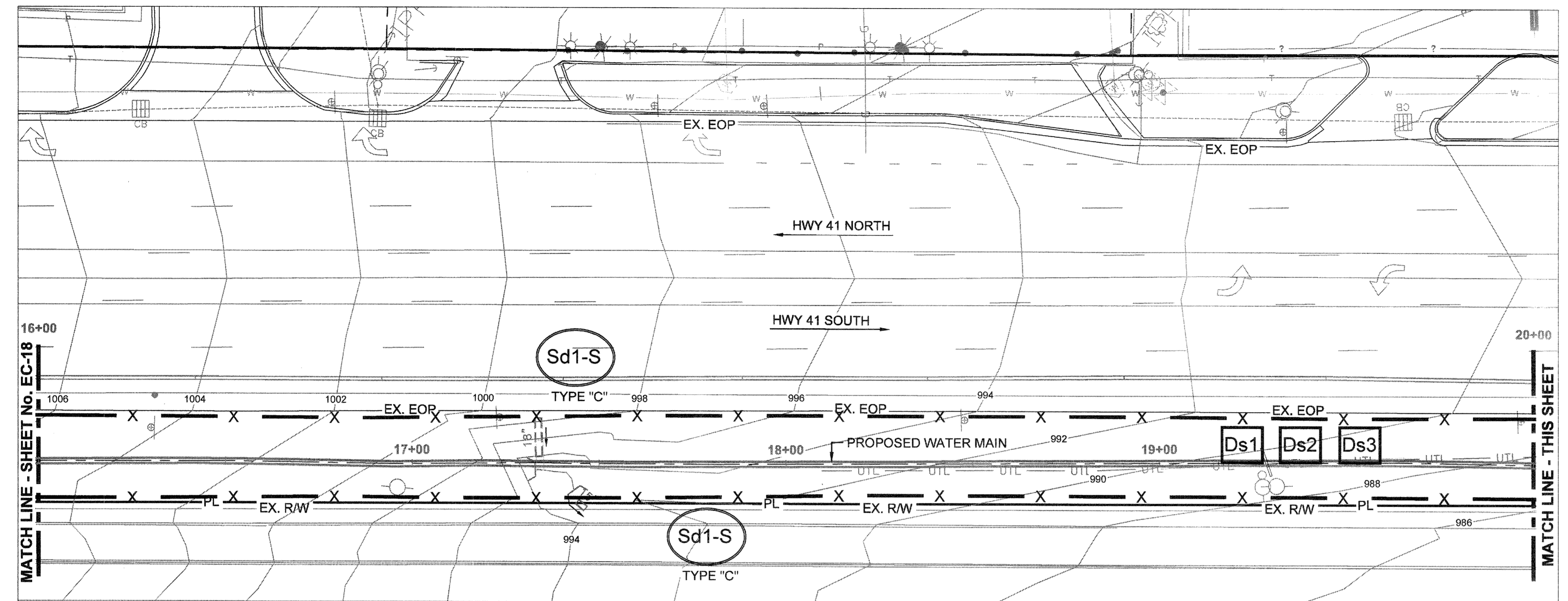
**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P. 770-933-0280



REVISION	DATE
EROSION CONTROL PERMIT SET	01/20/15

PROJ. No.: 100032548  
 DESIGNED BY: GRP  
 DRAWN BY: JN  
 CHECKED BY: GRP  
 APPROVED BY: GRP  
 DATE: JAN. 2015  
 SCALE: AS SHOWN

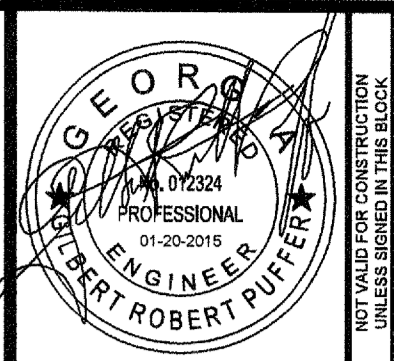
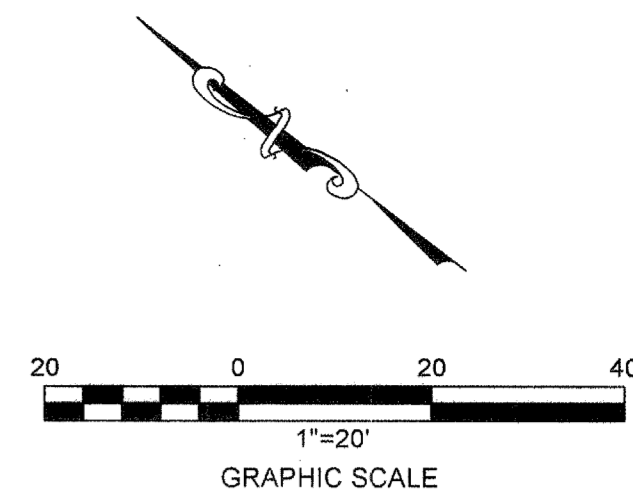
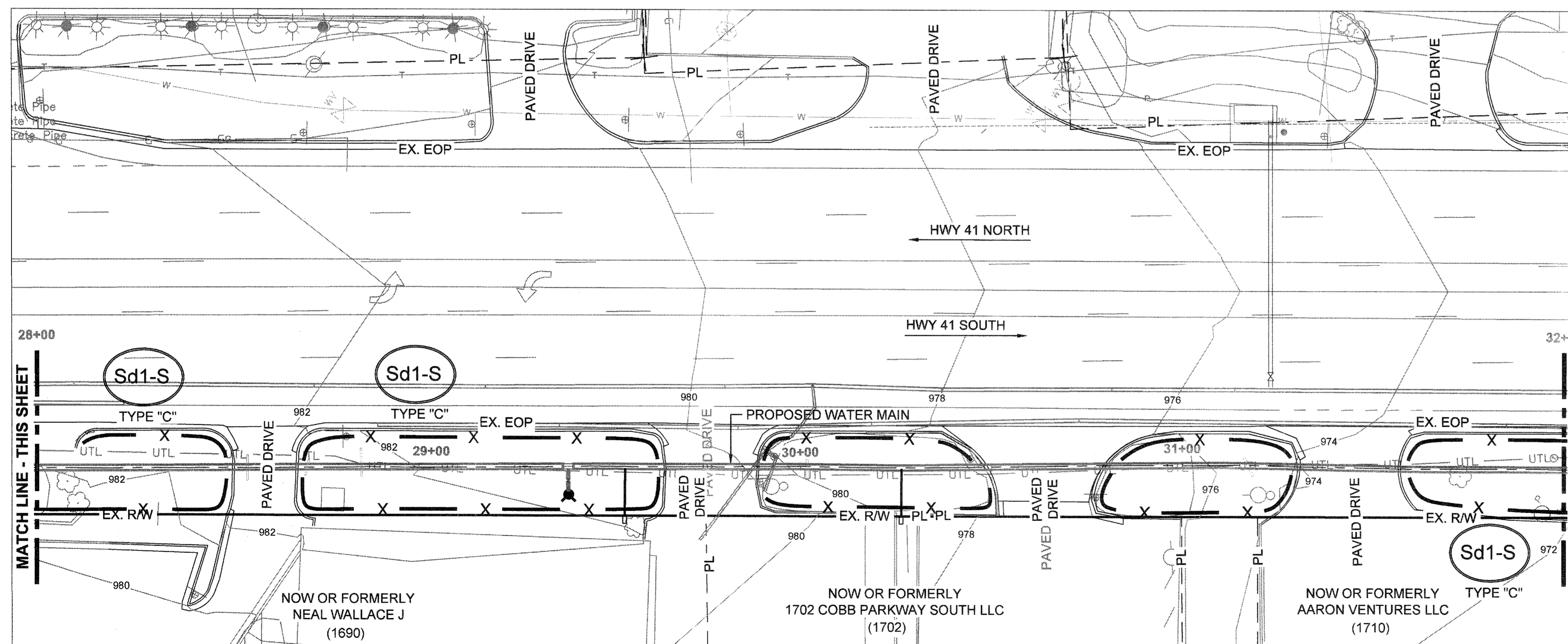
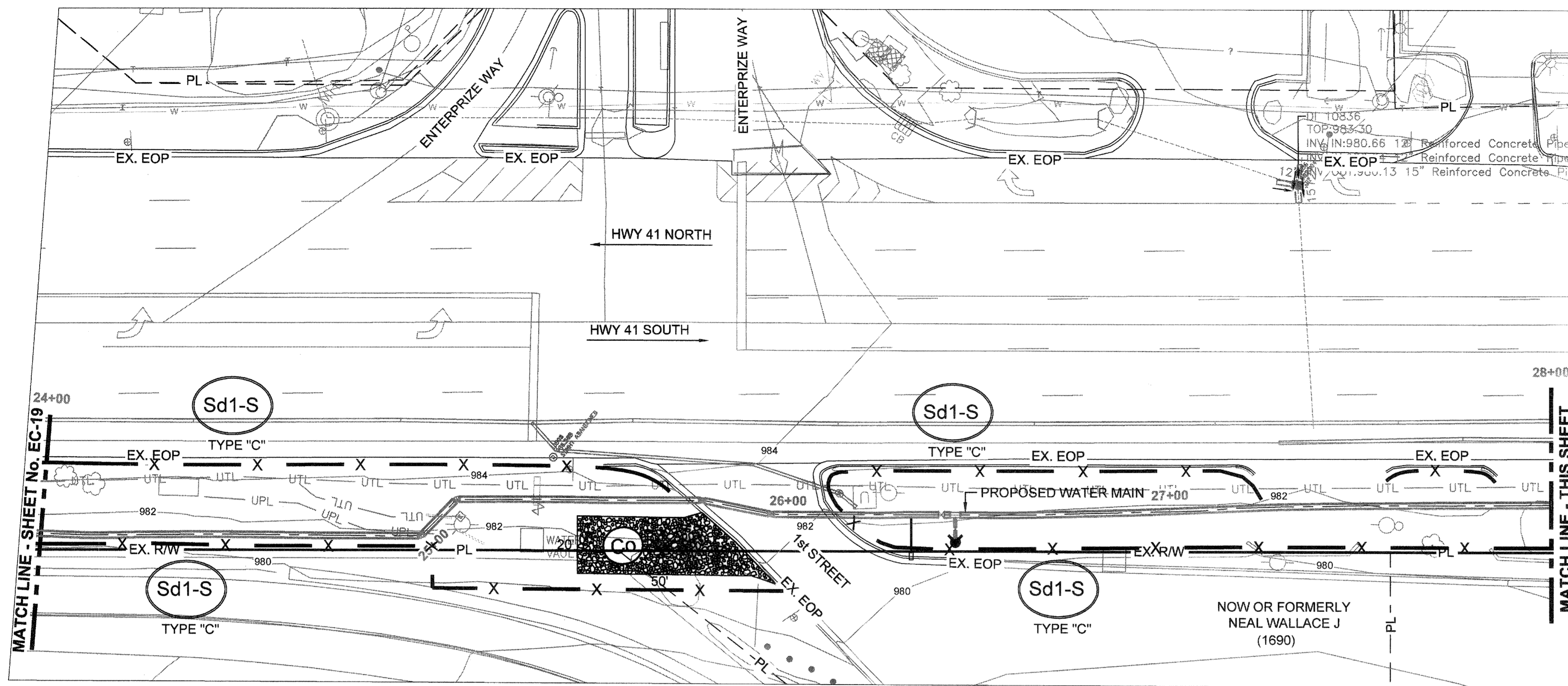
COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN  
**EROSION CONTROL PLANS**  
 SHEET No.  
**EC-19**  
 100032548



I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATION DESCRIBED HERIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

*Gilbert R. Puffer*  
 GILBERT R. PUFFER, P.E.  
 GAS/VCC LEVEL II CERTIFIED DESIGN PROFESSIONAL # 000021852  
 EXPIRES NOV., 04, 2015.

File Name: C:\PW\_WORK\ATKINA\01\NEW\7482\DWG\1001\EC-17 THROUGH EC-23.DWG\Tab:EC-19\Plate: February 20, 2015 10:21am



**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-933-0280



PROJ. No.:	DATE
100032548	01/20/15
DESIGNED BY: GRP	EROSION CONTROL PERMIT SET
DRAWN BY: JN	
CHECKED BY: GRP	
APPROVED BY: GRP	
DATE: JAN, 2015	
SCALE: AS SHOWN	

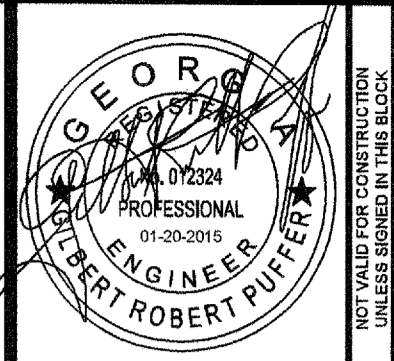
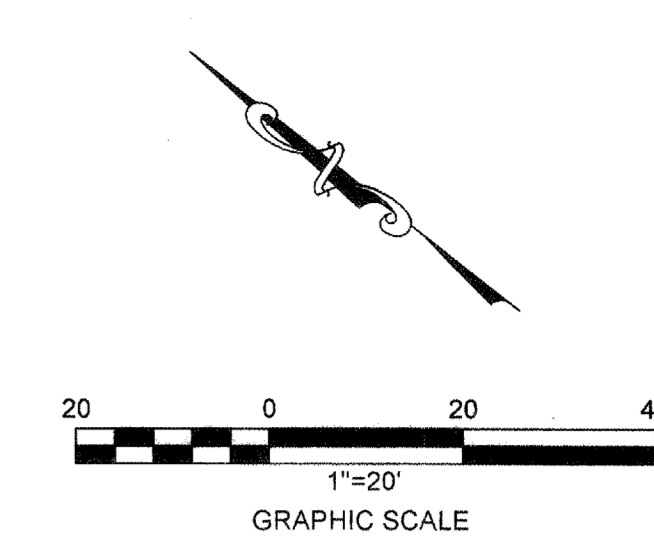
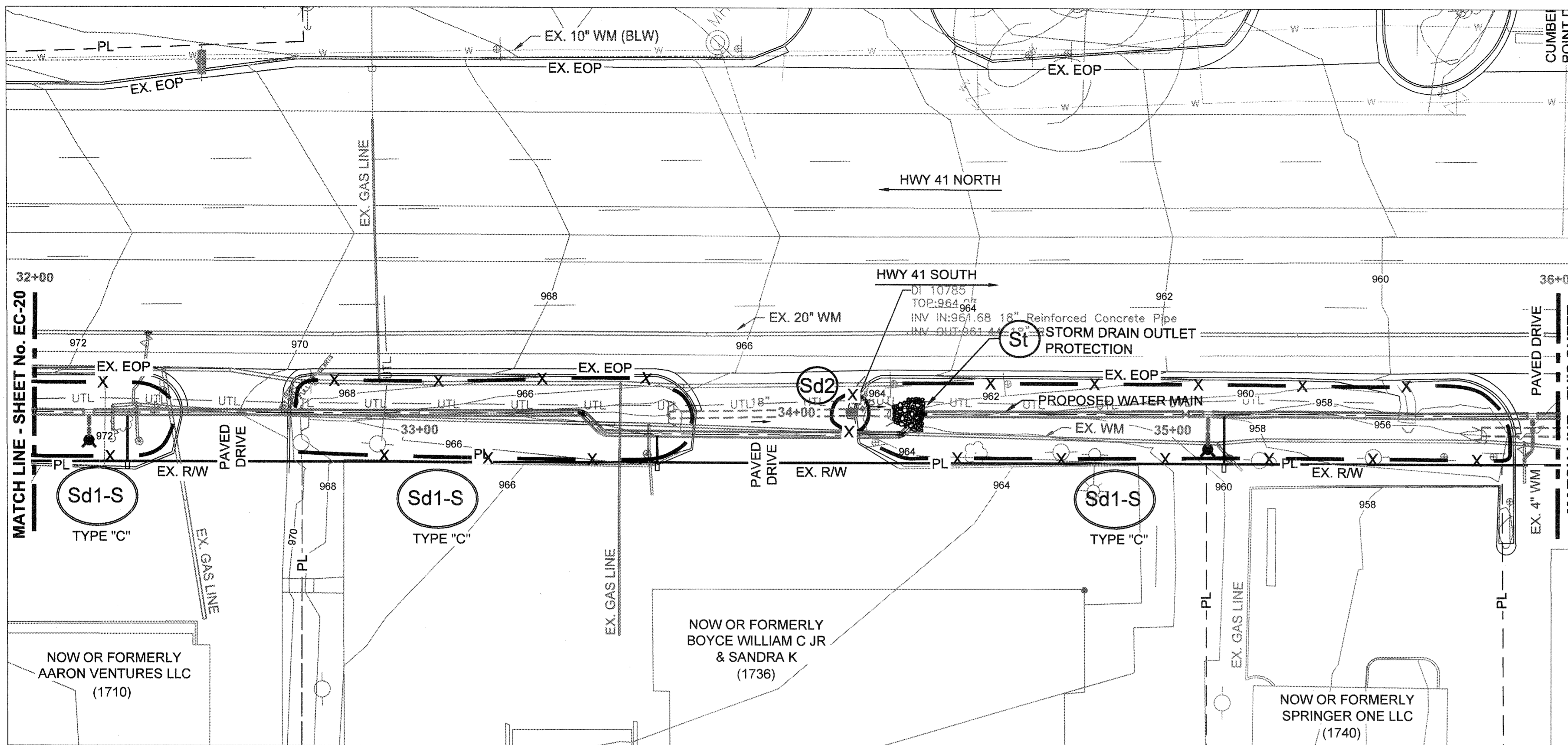
COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN  
**EROSION CONTROL PLANS**

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATION DESCRIBED HERIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

*[Signature]*  
 GILBERT R. PUFFER, P.E.  
 GAS/WCC LEVEL II CERTIFIED DESIGN PROFESSIONAL # 000021852  
 EXPIRES NOV., 04, 2015.

SHEET No.  
**EC-20**  
 100032548

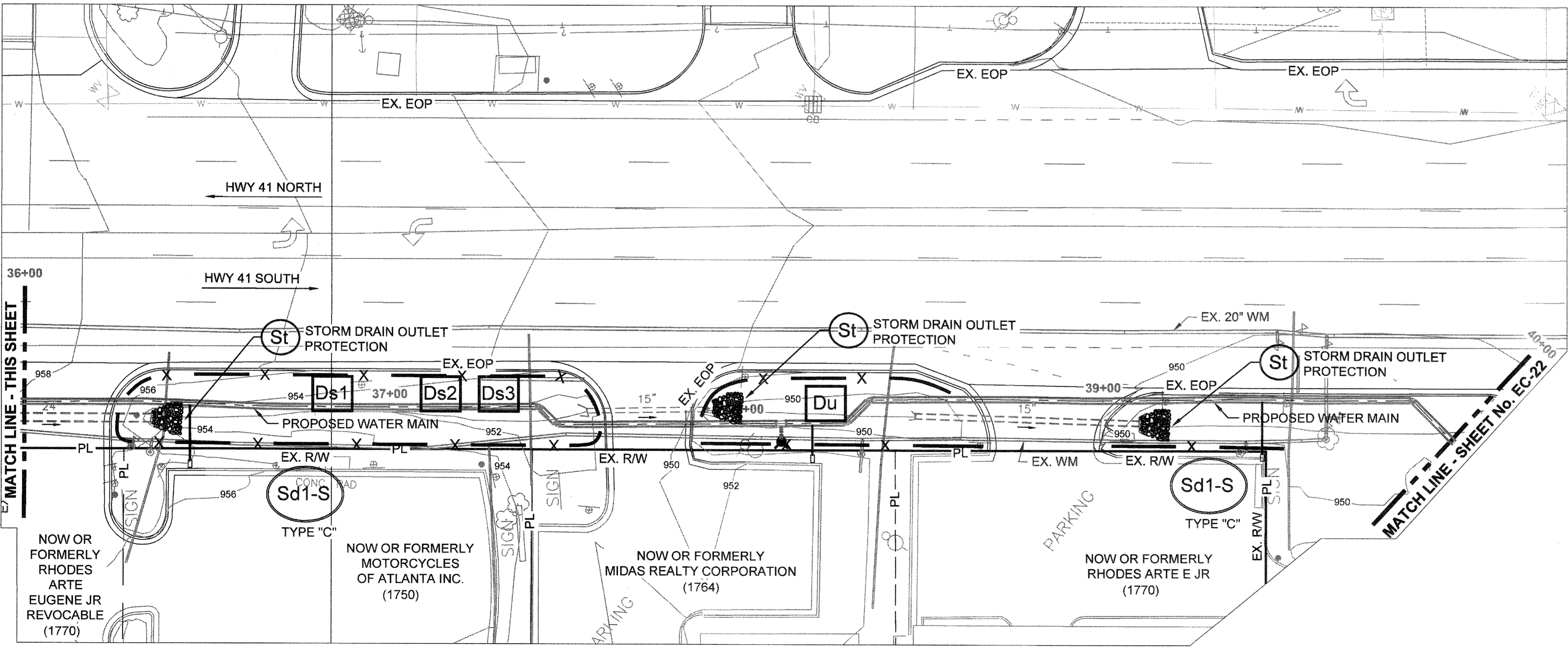
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**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-893-0280



REVISION	DATE
EROSION CONTROL PERMIT SET	01/20/15



I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATION DESCRIBED HERIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

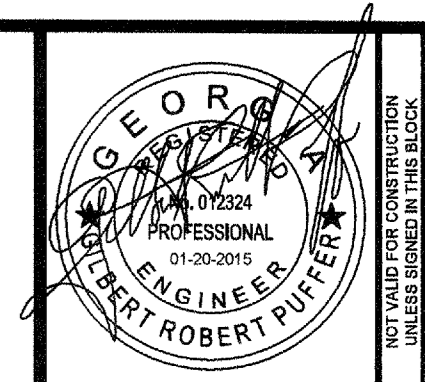
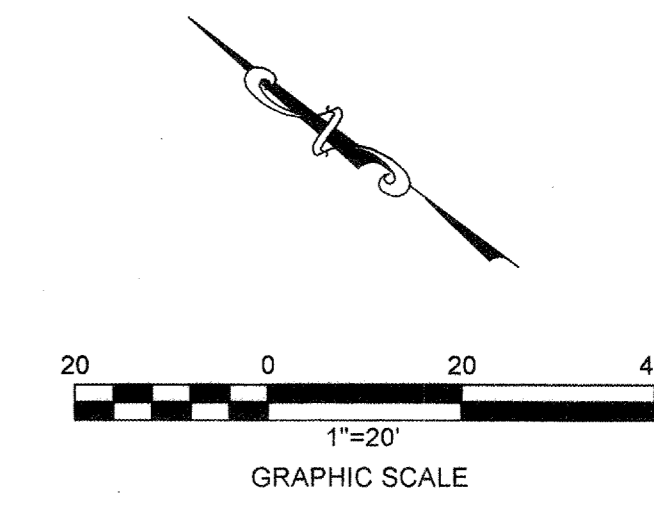
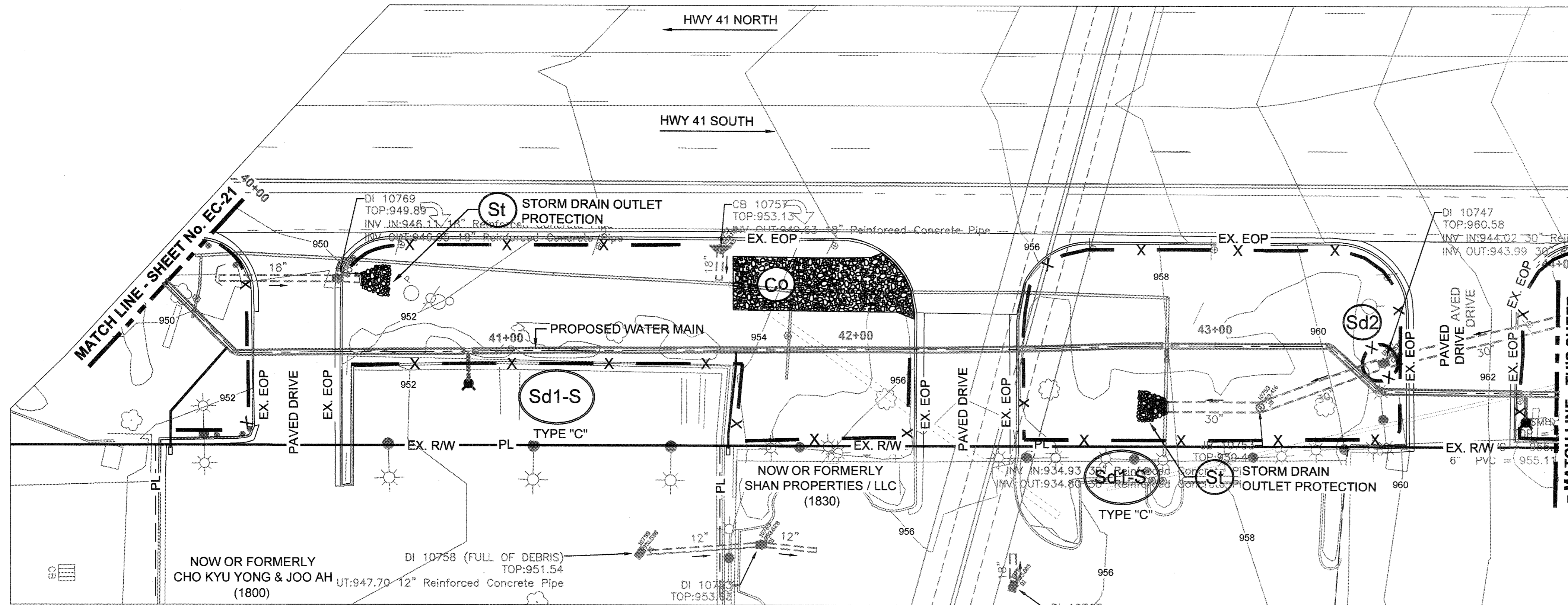
*[Signature]*  
 GILBERT R. PUFFER, P.E.  
 GAS/VCC LEVEL II CERTIFIED DESIGN PROFESSIONAL # 000021852  
 EXPIRES NOV., 04, 2015.

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN

**EROSION CONTROL PLANS**

SHEET No.  
**EC-21**  
 100032548

File Name: C:\PW\_WORK\ATKIN\A101\VIEW\482\DM501051\EC-21\THROUGH EC-23.DWG|Tab:EC-17 THRU|Plotter: February 20, 2015 10:32am



**ATKINS**

1600 RivesEdge Parkway, NW, Suite 600  
Atlanta, Georgia 30328  
P: 770-833-0280



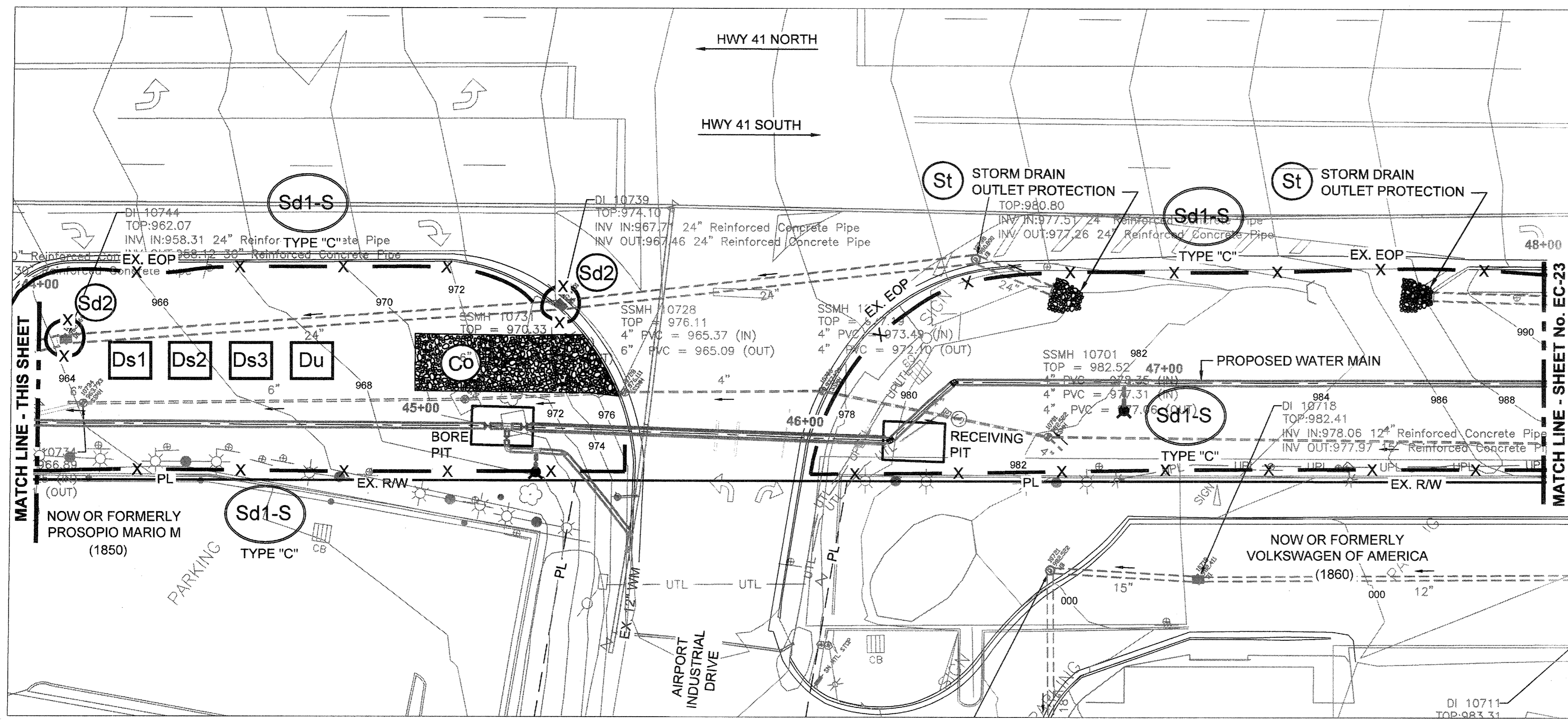
REVISION	DATE
EROSION CONTROL PERMIT SET	01/20/15

COBB COUNTY-MARIETTA WATER AUTHORITY  
HIGHWAY 41 PHASE IV  
WATER MAIN

EROSION CONTROL PLANS

DESIGNED BY: GRP  
DRAWN BY: JN  
CHECKED BY: GRP  
APPROVED BY: GRP  
DATE: JAN, 2015  
SCALE: AS SHOWN

SHEET No.  
**EC-22**  
100032548

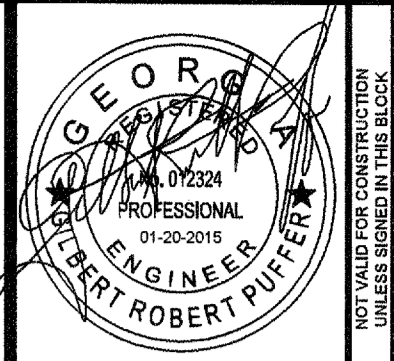
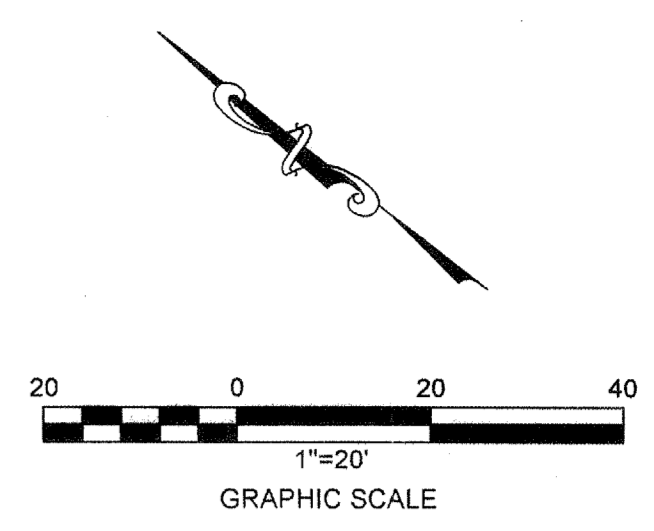
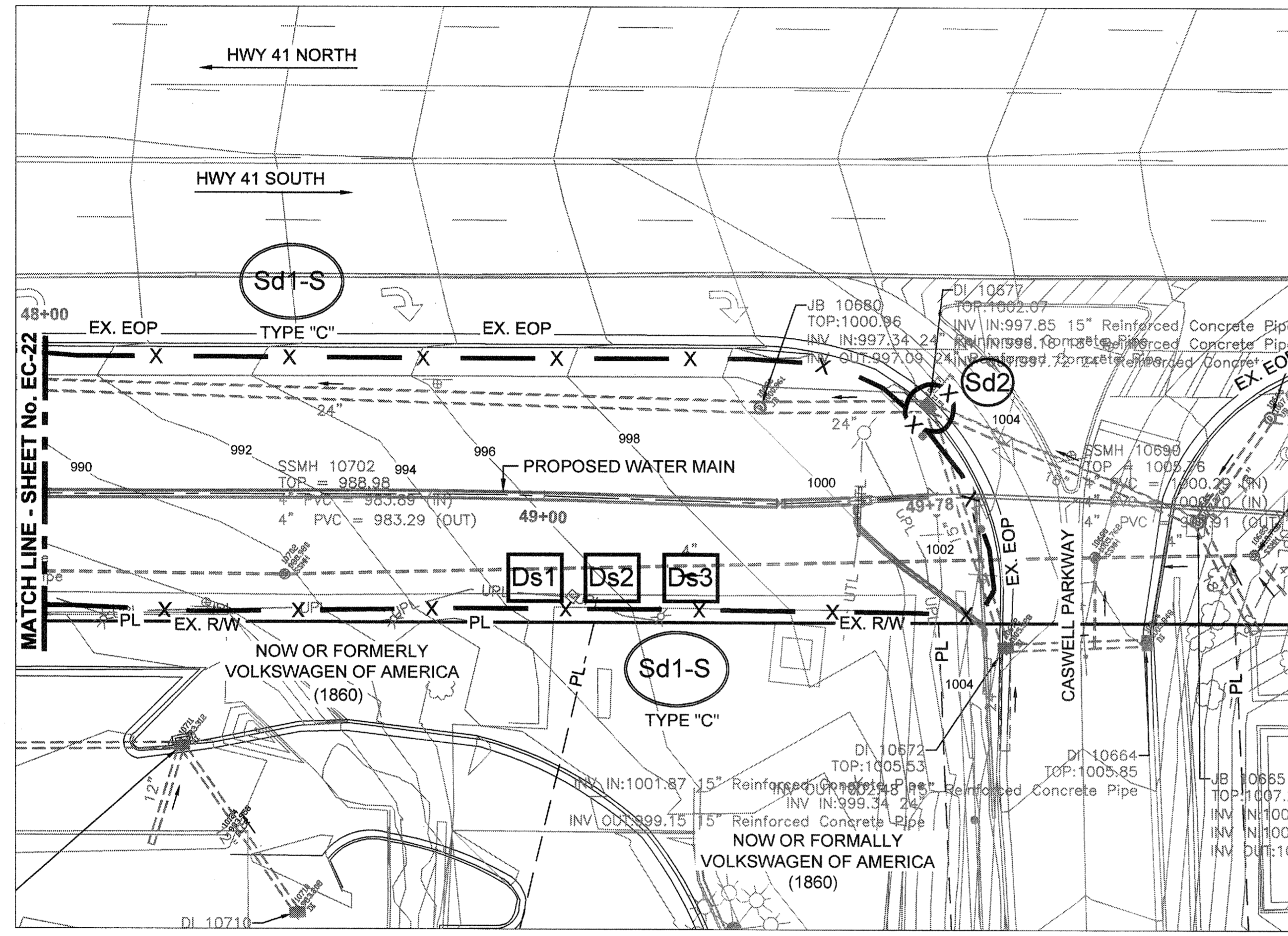


I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATION DESCRIBED HERIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

*Gilbert R. Puffer*

GILBERT R. PUFFER, P.E.  
GAS/WCC LEVEL II CERTIFIED DESIGN PROFESSIONAL # 000021852  
EXPIRES NOV., 04, 2015.

File Name: C:\PW\_WORK\ATKINS\LO\VIEW\7482\DWG\1051\EC-17 THROUGH EC-23.DWG | Job: EC-22 | Plotter: February 20, 2015 10:41am



**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-833-0280



PROJ. No.:	DESIGNED BY:	CHECKED BY:	APPROVED BY:	DATE:	SCALE:
100032548	GRP	JN	GRP	JAN. 2015	AS SHOWN

REVISION	DATE
EROSION CONTROL PERMIT SET	01/20/15

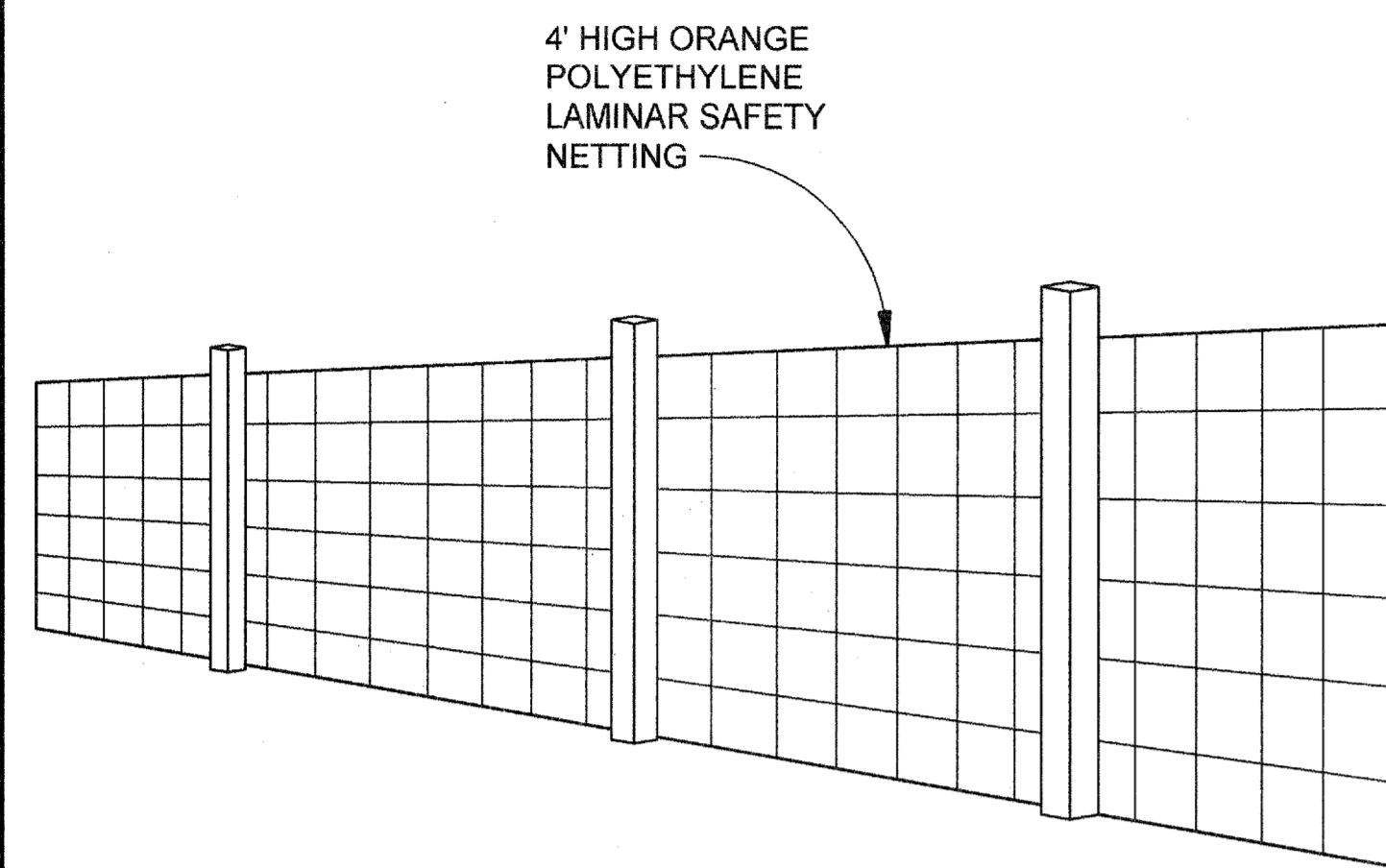
COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN  
**EROSION CONTROL PLAN**

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATION DESCRIBED HERIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

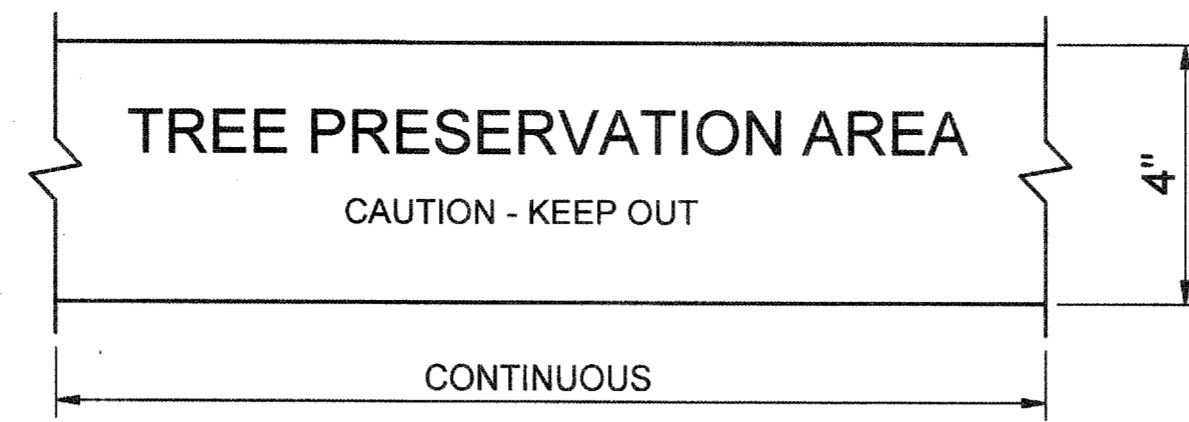
*Gilbert R. Puffer*  
 GILBERT R. PUFFER, P.E.  
 GAS/VCC LEVEL II CERTIFIED DESIGN PROFESSIONAL # 000021852  
 EXPIRES NOV., 04, 2015.

SHEET No.  
**EC-23**  
 100032548

File Name: C:\PW\_WORK\ATKINAEL\NEW\MM7482\DWG\0051\EC-17 THROUGH EC-23.DWG\0051\EC-23.dwg  
 Printed: February 20, 2015 10:43am



**Tree Protection Fencing**  
NOT TO SCALE



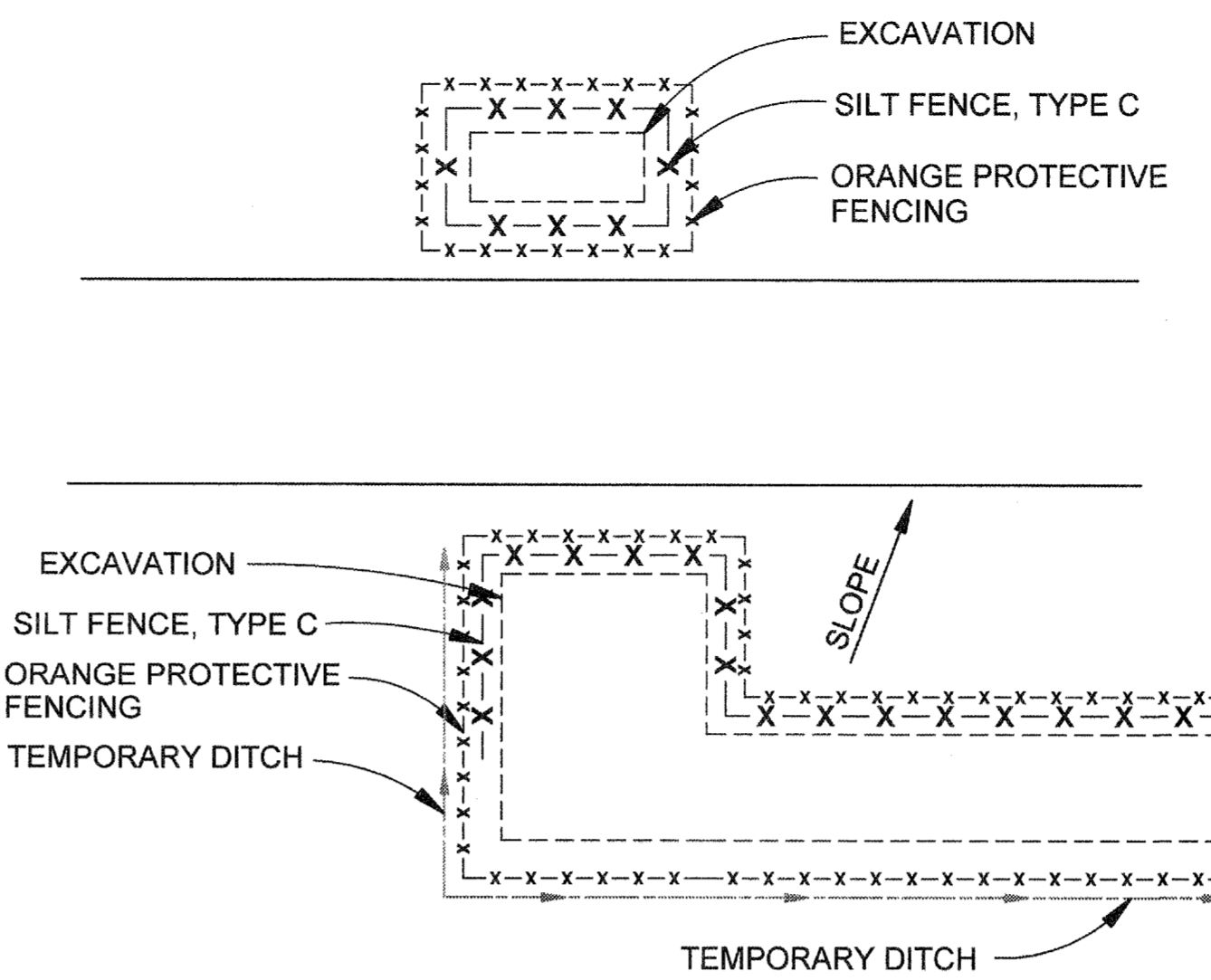
HEAVY MILL PLASTIC, MINIMUM 4" WIDTH,  
DARK LETTERING ON BRIGHT BACKGROUND

**TYPE A**



**TYPE B**

**PASSIVE TREE PROTECTION - TYPE A & B**  
(FOR USE WHERE TREE-SAVE AREAS ARE NOT IN PROXIMITY TO CONSTRUCTION ACTIVITY)



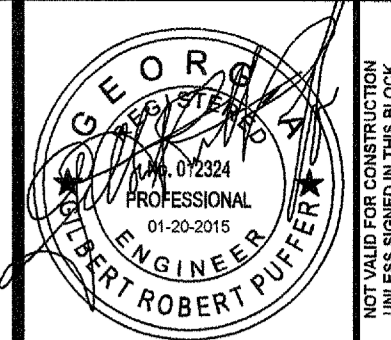
- NOTES:**
- PROTECTIVE ORANGE FENCING MUST BE MAINTAINED AT ALL TIMES FOR ALL EXCAVATIONS.
  - STORM WATER FLOW TO BE DIVERTED AROUND LARGE PITS AND EXCAVATIONS USING DITCHES, PIPES, ROCK DAMS, OR OTHER PRACTICAL MEANS. IF STORM WATER DIVERSION IS NOT POSSIBLE, EXCAVATION MUST BE FILLED BEFORE THE END OF EACH DAY.
  - PROTECTIVE FENCING TO COMPLETELY SURROUND ALL EXCAVATIONS AND MINIMIZE VEHICULAR SIGHT DISTANCE REDUCTION.

**PROTECTIVE FENCING AND SILT FENCE AT EXCAVATIONS**

SCALE: NONE

**EROSION CONTROL LEGEND:**

- Ch** - CHANNEL STABILIZATION
- Co** - CONSTRUCTION EXIT
- Rd** - ROCK FILTER DAM
- Sd1** - SEDIMENT BARRIER
- St** - STORM DRAIN OUTLET PROTECTION
- Bf** - BUFFER ZONE
- Ds1** - DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
- Ds2** - DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)
- Ds3** - DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)



**ATKINS**  
1600 RiverEdge Parkway, N.W., Suite 600  
Atlanta, Georgia 30328  
P: 770-955-0280

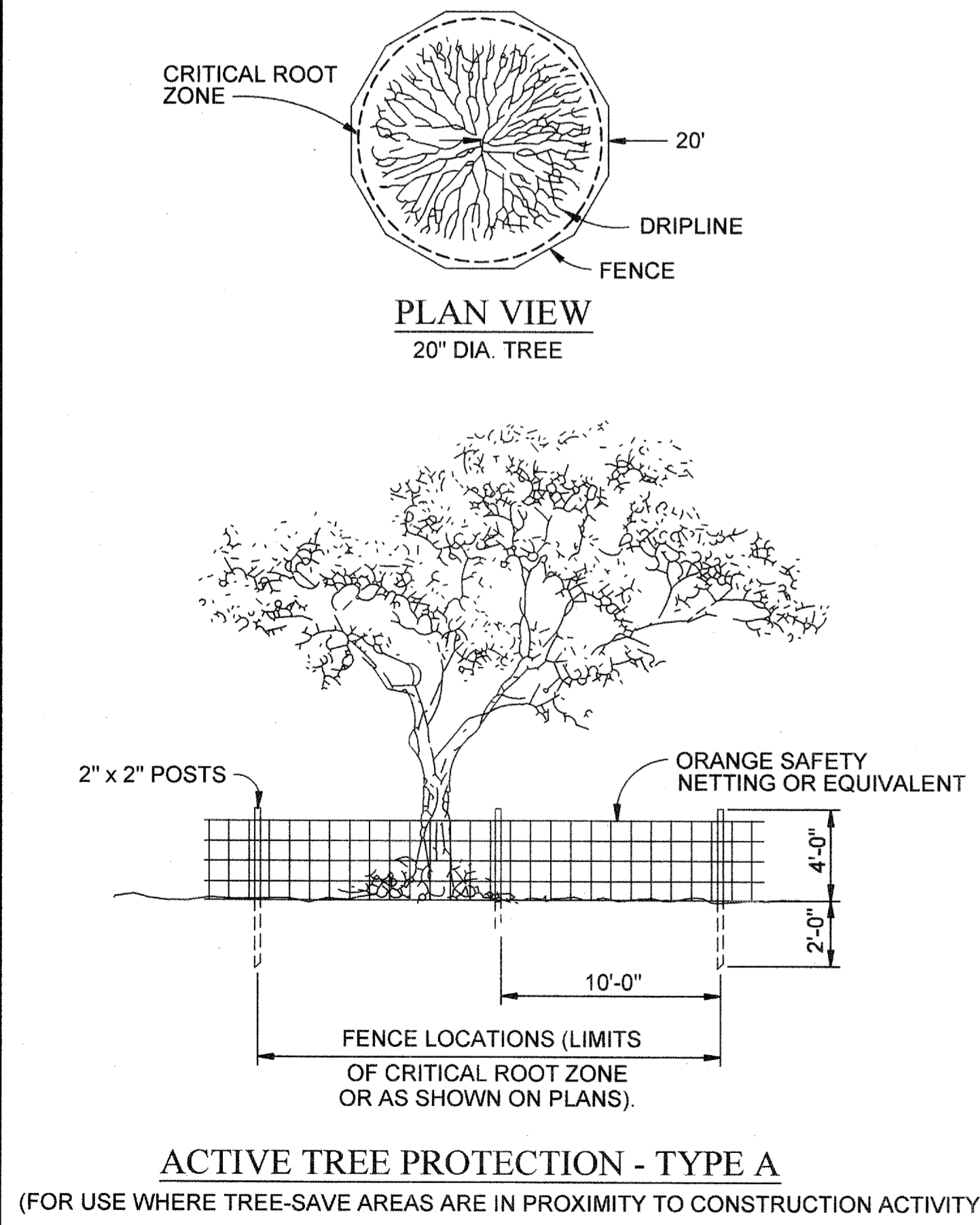


DETAIL 437-E-8.0 TREE PROTECTION FENCING **Tp**

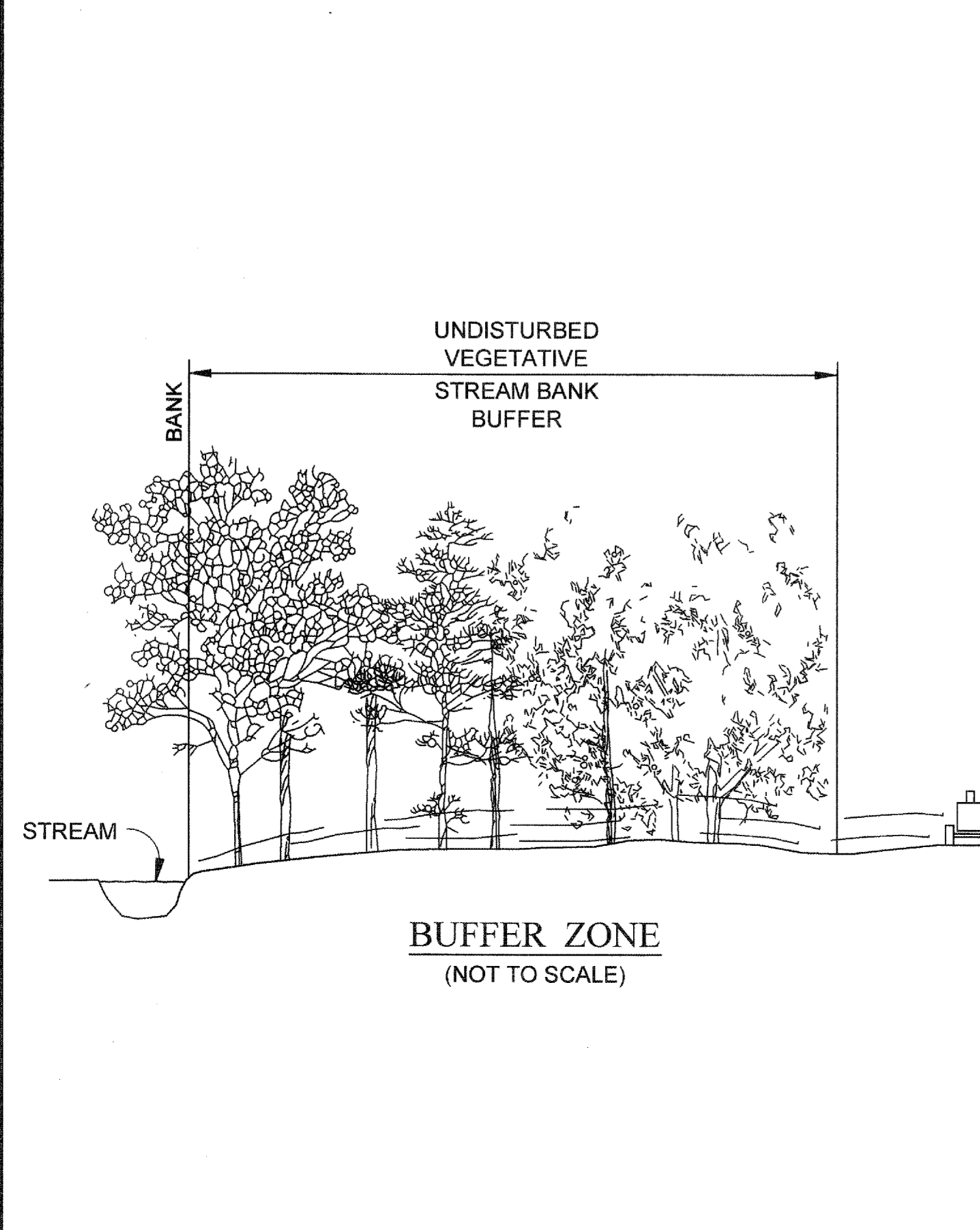
DETAIL 437-E-9.0 PASSIVE TREE PROTECTION (FOR USE WHERE TREE-SAVE AREAS ARE NOT IN PROXIMITY TO CONSTRUCTION ACTIVITY)

PROTECTIVE FENCING AND SILT FENCE AT EXCAVATIONS

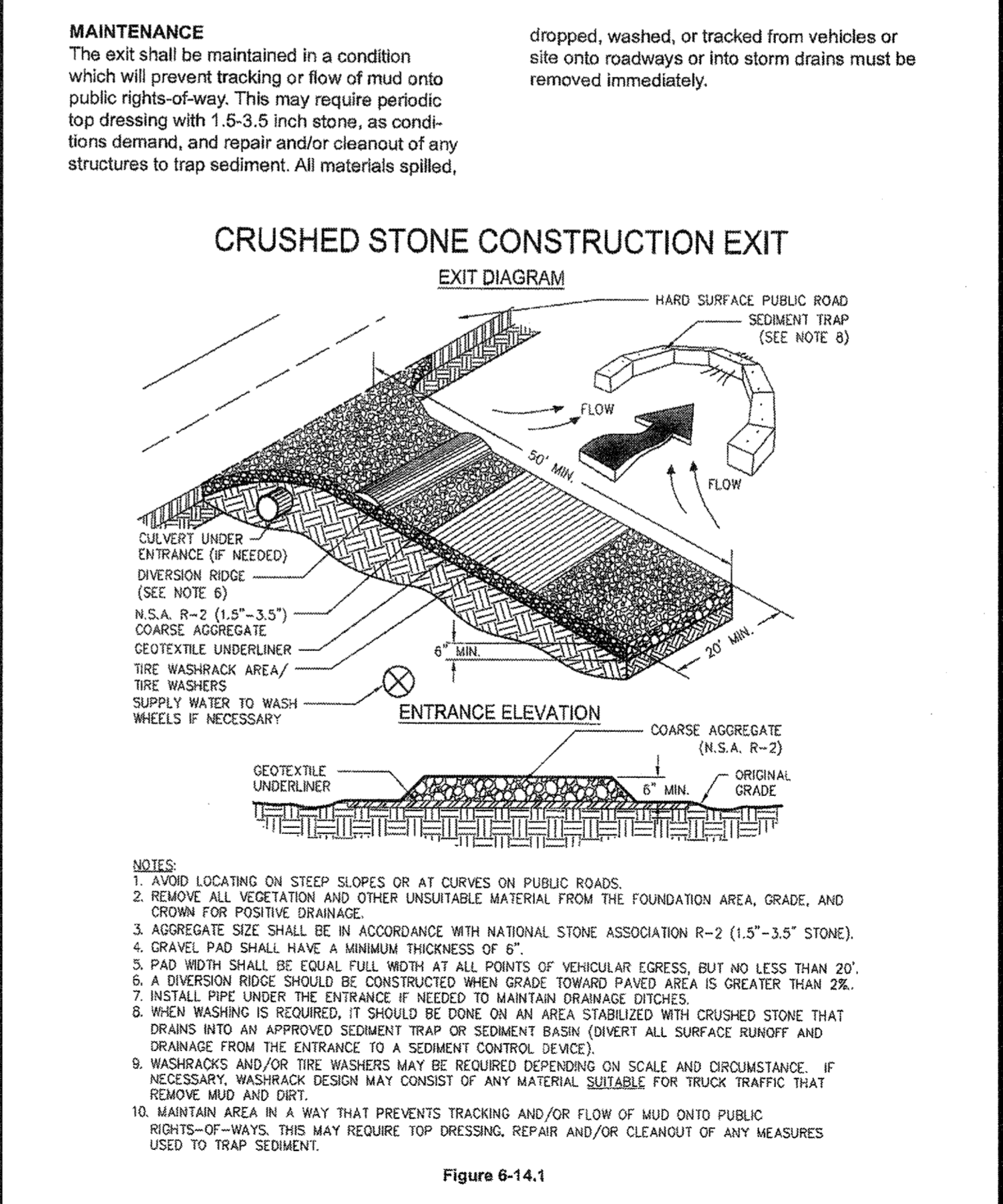
DETAIL 437-E-1.0 EROSION CONTROL LEGEND



**ACTIVE TREE PROTECTION - TYPE A**  
(FOR USE WHERE TREE-SAVE AREAS ARE IN PROXIMITY TO CONSTRUCTION ACTIVITY)



**BUFFER ZONE**  
(NOT TO SCALE)



- NOTES:**
- AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
  - REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
  - AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
  - GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
  - PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
  - A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
  - INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
  - WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERTE ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
  - WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
  - MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

**CRUSHED STONE CONSTRUCTION EXIT**

DETAIL 437-E-1.1 ACTIVE TREE PROTECTION TYPE "A"

DETAIL 437-E-1.2 UNDISTURBED VEGETATIVE STREAM BANK **Bf**

FIGURE 6-14-1 CRUSHED STONE CONSTRUCTION EXIT **Co**

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATION DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

*Gilbert R. Puffer*  
**GILBERT R. PUFFER, P.E.**  
GASWCC LEVEL II CERTIFIED DESIGN PROFESSIONAL # 000021852  
EXPIRES NOV., 04, 2015.

PROJ. No.: 100032548	DESIGNED BY: GRP	DRAWN BY: JN	CHECKED BY: GRP	APPROVED BY: GRP	DATE: JAN. 2015	SCALE: NONE
COBB COUNTY-MARIETTA WATER AUTHORITY HIGHWAY 41 PHASE IV WATER MAIN	<b>EROSION CONTROL DETAILS</b>					
SHEET No.	<b>EC-24</b>					
100032548						

**GENERAL**  
THIS VEGETATIVE PLAN WILL BE CARRIED OUT ON ROAD CUT AND FILL SLOPES. SHOULDERS AND OTHER CRITICAL AREAS CREATED BY CONSTRUCTION. SEEDING WILL BE DONE AS SOON AS CONSTRUCTION IN AN AREA IS COMPLETED. PLANS WILL BE MADE TO CONTROL EROSION, TO REDUCE DAMAGES FROM SEDIMENT AND RUNOFF TO DOWNSTREAM AREAS AND TO IMPROVE THE SAFETY AND BEAUTY OF THE DEVELOPMENT AREA.

**SOIL CONDITIONS**

DUE TO GRADING AND CONSTRUCTION THE AREAS TO BE TREATED ARE MAINLY SUBSOIL AND SUBSTRATA. FERTILITY IS LOW AND THE PHYSICAL CHARACTERISTICS OF THE EXPOSED MATERIAL ARE UNFAVORABLE TO ALL BUT THE MOST HARDY PLANTS.

**TREATMENT SPECIFICATIONS**

**CONVENTIONAL SEEDING EQUIPMENT**

GRADE SHAPE AND SMOOTH WHERE NEEDED TO PROVIDE FOR SAFE EQUIPMENT OPERATION AT SEEDING TIME AND FOR MAINTENANCE PURPOSES. THE LIME AND FERTILIZER IN DRY FORM WILL BE SPREAD UNIFORMLY OVER THE AREA IMMEDIATELY BEFORE SEEDBED PREPARATION. A SEEDBED WILL BE PREPARED BY SCARIFYING TO A DEPTH OF 1 TO 4 INCHES AS DETERMINED ON SITE. THE SEEDBED MUST BE WELL PULVERIZED, SMOOTHED AND FIRMED. SEEDING WILL BE DONE WITH CULTIPACKER-SEEDER, DRILL ROTARY SEEDER OR OTHER MECHANICAL OR HAND SEEDER. SEED WILL BE DISTRIBUTED UNIFORMLY OVER A FRESHLY PREPARED SEEDBED AND COVERED LIGHTLY, WITHIN 24 HOURS AFTER SEEDING, STRAW OR HAY MULCH WILL BE SPREAD UNIFORMLY OVER THE AREA LEAVING ABOUT 25 PERCENT OF THE GROUND SURFACE EXPOSED. MULCH WILL BE SPREAD WITH BLOWER-TYPE MULCH EQUIPMENT OR BY HAND AND ANCHORED IMMEDIATELY AFTER IT IS SPREAD. A DISK HARROW WITH THE DISK SET STRAIGHT OR A SPECIAL PACKER DISK MAY BE USED TO PRESS THE MULCH INTO THE SOIL. THE PER ACRE APPLICATION RATES ARE AS FOLLOWS:

A. SEEDING WITH MULCH: (CONVENTIONAL SEEDING EQUIPMENT ON SLOPES LESS THAN 3:1)

AGRICULTURAL LIMESTONE	4000 lbs./acre
FERTILIZER, 5-10-15	1500 lbs./acre
MULCH, STRAW OR HAY	5000 lbs./acre

SEED SPECIES	APPLICATION RATE/ACRE	PLANTING DATES
HULLED COMMON BERMUDA GRASS	10 lbs.	3/1 - 8/15
FESCUE	50 lbs.	9/1 - 10/31
FESCUE	50 lbs.	11/1 - 2/28
RYE GRASS	50 lbs.	11/1 - 2/28

B. TOP DRESSING: APPLY WHEN PLANTS ARE 2 TO 4 INCHES TALL  
 FERTILIZER (AMMONIUM NITRATE 33.5%) 300 lbs./acre  
 C. SECOND-YEAR FERTILIZER: (5-10-15 OR EQUIVALENT) 800 lbs./acre

Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

DETAIL 437-E-3.1

DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

Ds2

**GENERAL**  
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FESCUE	50 lbs.	11/1 - 2/28
RYE GRASS	50 lbs.	11/1 - 2/28
HAY MULCH FOR TEMPORARY COVER	5000 lbs.	8/15 - 8/31

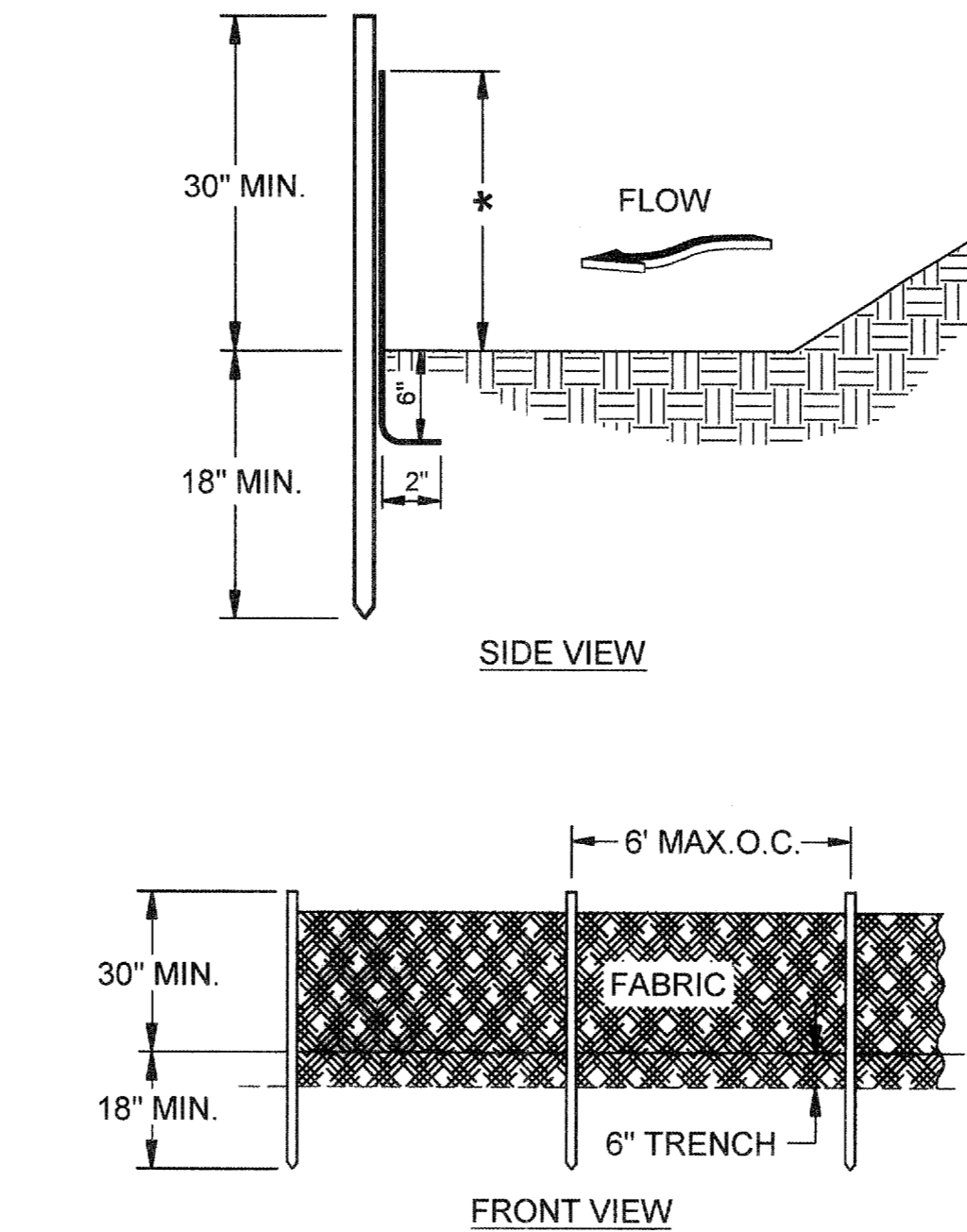
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 FERTILIZER (AMMONIUM NITRATE 33.5%) 300 lbs./acre  
 C. SECOND-YEAR FERTILIZER: (5-10-15 OR EQUIVALENT) 800 lbs./acre

Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

DETAIL 437-E-3.2

DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

Ds3



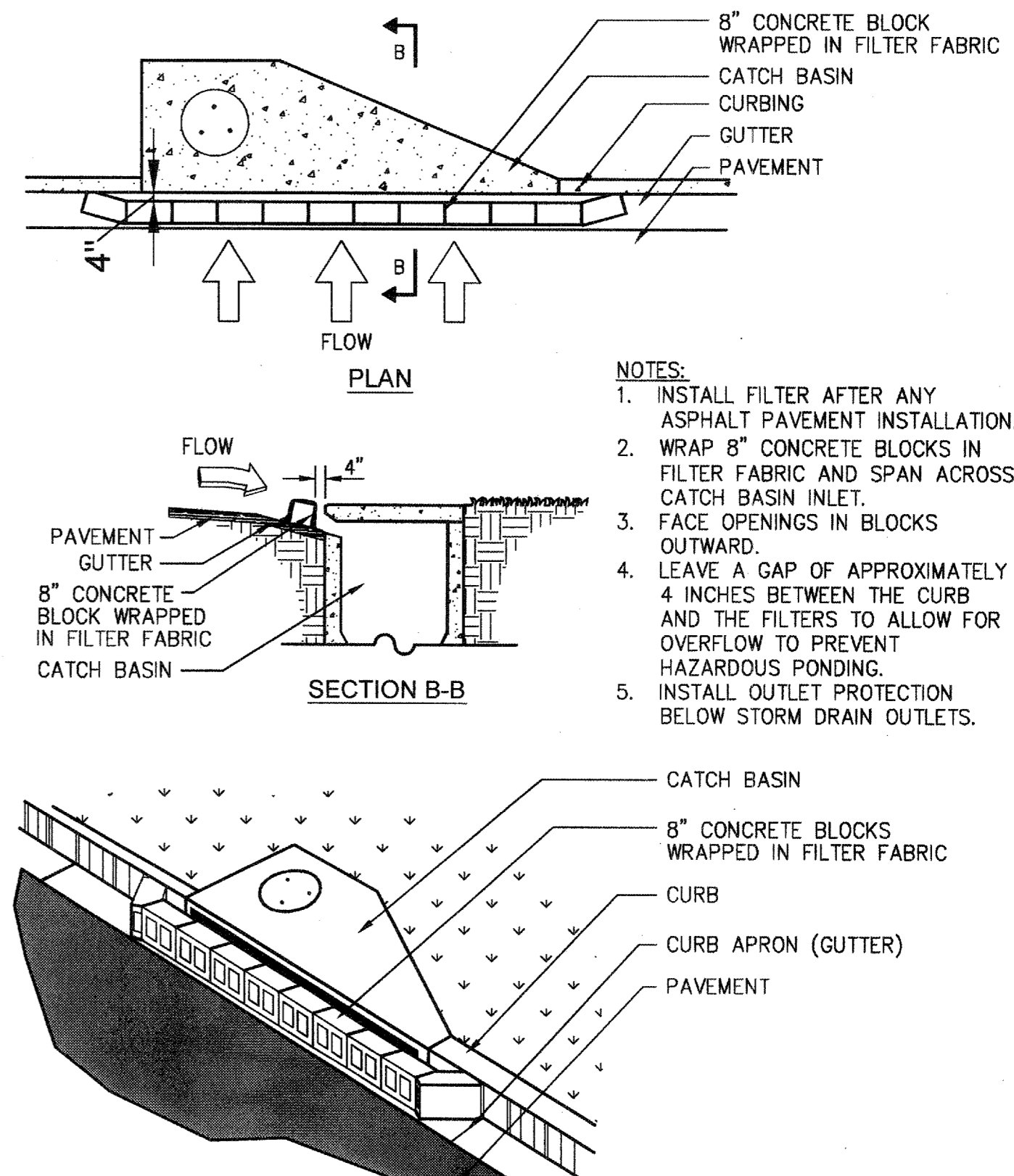
- NOTES:  
 1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.  
 2. HEIGHT (\*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

Sd1-NS SILT FENCE - TYPE NON-SENSITIVE  
 NOT TO SCALE

FIGURE 6-27-1

SILT FENCE - TYPE NON-SENSITIVE

Sd1-NS



- NOTES:  
 1. INSTALL FILTER AFTER ANY ASPHALT PAVEMENT INSTALLATION.  
 2. WRAP 8" CONCRETE BLOCKS IN FILTER FABRIC AND SPAN ACROSS CATCH BASIN INLET.  
 3. FACE OPENINGS IN BLOCKS OUTWARD.  
 4. LEAVE A GAP OF APPROXIMATELY 4 INCHES BETWEEN THE CURB AND THE FILTERS TO ALLOW FOR OVERFLOW TO PREVENT HAZARDOUS PONDING.  
 5. INSTALL OUTLET PROTECTION BELOW STORM DRAIN OUTLETS.

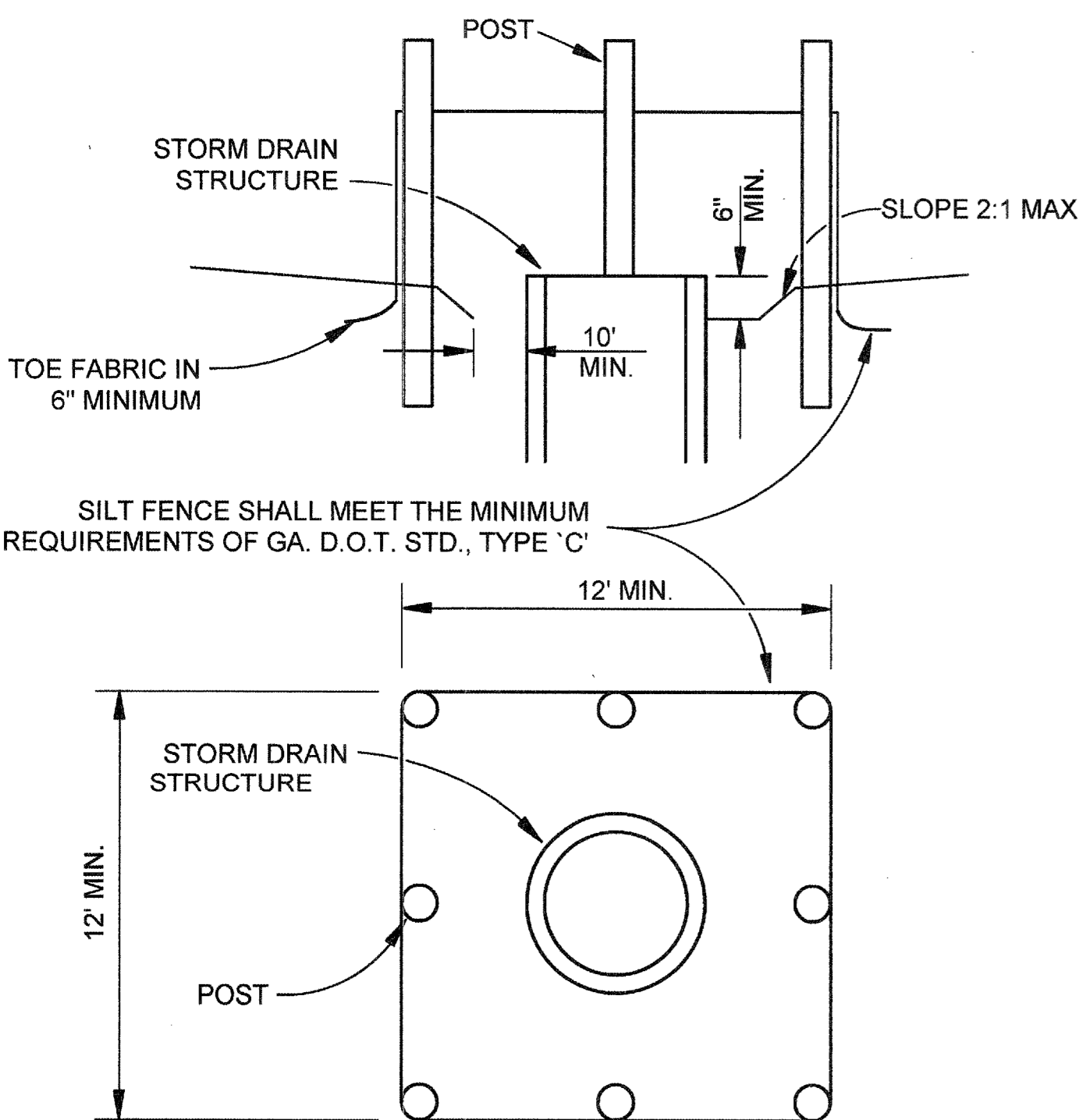
Sd2 CURB INLET FILTER "PIGS IN BLANKET" NOT TO SCALE

FIGURE 6-28-6

INLET SEDIMENT TRAP

Sd2

NOTE:  
 AN ALTERNATE SEDIMENT INLET CONTROL DEVICE MAY BE USED AS SHOWN IN FIGURE 6-21.7 OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA"



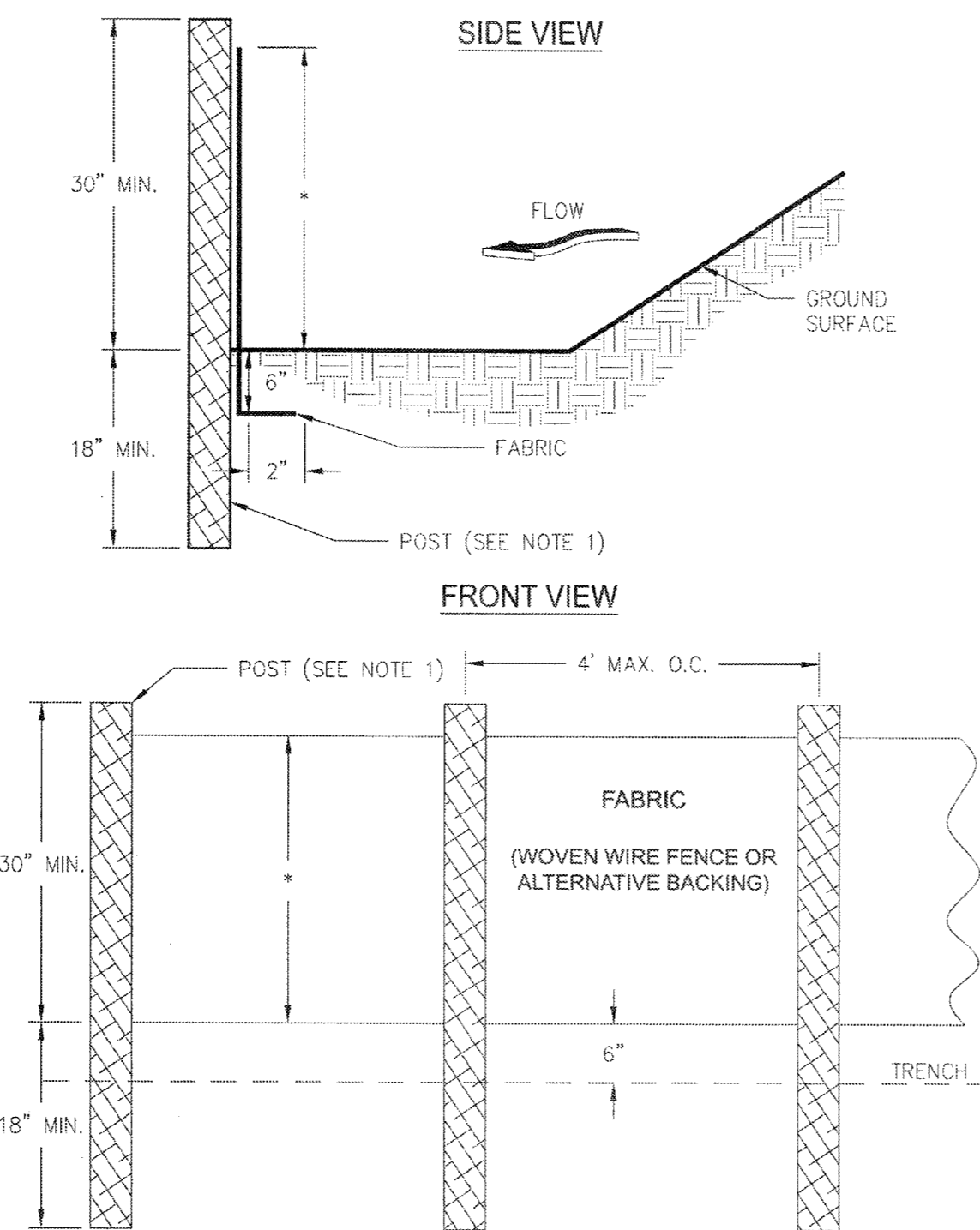
Sd2 INLET SEDIMENT TRAP NOT TO SCALE

DETAIL 437-E-6.0

INLET SEDIMENT TRAP

Sd2

**SILT FENCE - TYPE SENSITIVE**



- NOTES:  
 1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.  
 2. HEIGHT (\*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

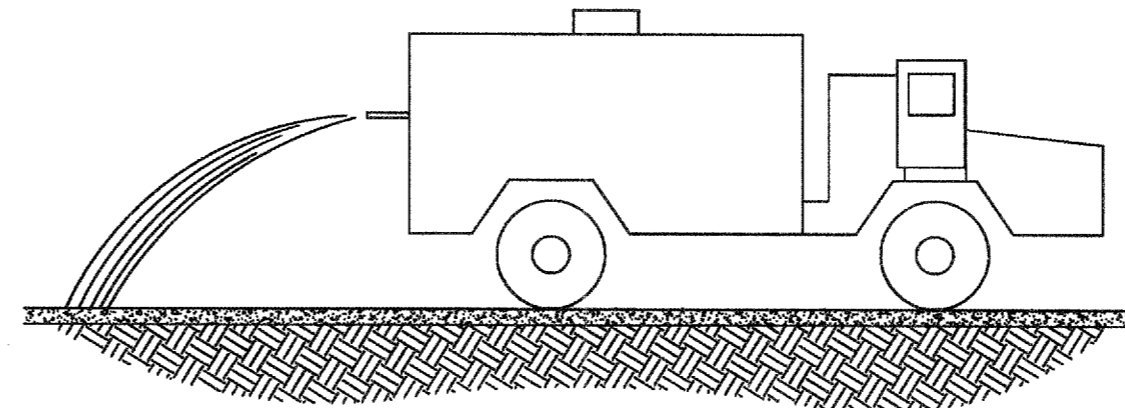
Figure 6-27.2

GSWCC (Amended - 2013)

6-194

SILT FENCE TYPE - SENSITIVE

Sd1-S



**INSTALLATION**

- MULCH DISTURBED AREAS AND TACKIFY WITH RESINS SUCH AS ASPHALT, CURASOL OR TERRATAK ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- STABILIZE DISTURBED AREAS WITH TEMPORARY PERMANENT VEGETATION.
- IRRIGATE DISTURBED AREAS UNTIL SURFACE IS WET.
- COVER SURFACES WITH CRUSHED STONE OR GRAVEL.
- APPLY CALCIUM CHLORIDE AT A RATE TO KEEP SURFACES MOIST.
- APPLY SPRAY-ON ADHESIVES TO MINERAL SOILS (NOT MUCK SOILS) AS DESCRIBED IN TABLE 1.

TABLE 1. SPRAY-ON ADHESIVE APPLICATION REQUIREMENTS

ADHESIVE	WATER DILUTION	NOZZLE TYPE	APPLICATION (Gal. / Acre)
ANIONIC ASPHALT EMULSION	7:1	COARSE SPRAY	1,200
LATEX EMULSION	12.5:1	FINE SPRAY	235
RESIN-IN-WATER EMULSION	4:1	FINE SPRAY	300

**MAINTENANCE**

- PROHIBIT TRAFFIC ON SURFACE AFTER SPRAYING.
- SUPPLEMENT SURFACE COVERING AS NEEDED.

**DUST CONTROL ON DISTURBED AREAS**

DUST CONTROL ON DISTURBED AREAS

Du

**Mulching Application Requirements**

Material	Rate	Depth
Straw or hay	2 1/2 Ton/Acre	6" to 10"
Wood waste chips, sawdust, bark	6 to 9 Ton/Acre	2" to 3"
Cutback asphalt	1200 gal./acre or 1/4 gal./sq. yd.	
Polyethylene film	Secure with soil anchors, weights	
Geotextiles, jute matting, netting, etc.	See manufacturer's recommendations	

Ds1 DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)

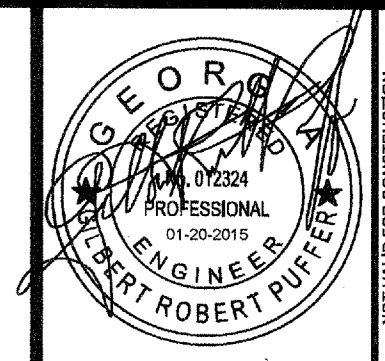
DETAIL 437-E-3.0

DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)

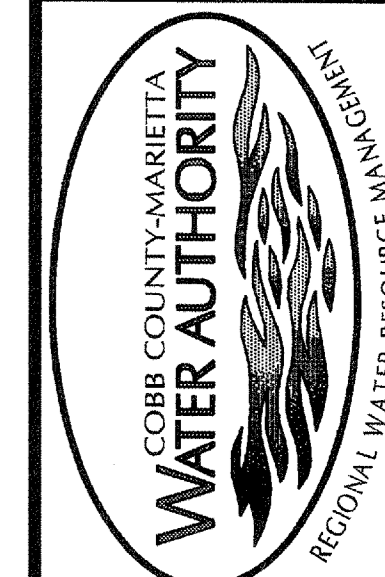
Ds1

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATION DESCRIBED HERIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

GILBERT R. PUFFER, P.E.  
 GSWCC LEVEL II CERTIFIED DESIGN PROFESSIONAL # 000021852  
 EXPIRES NOV. 04, 2015.



**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-933-0280



REVISION	DATE	EROSION CONTROL PERMIT SET
	01/20/15	

PROJ. No.: 100032548  
 DESIGNED BY: GRP  
 DRAWN BY: JN  
 CHECKED BY: GRP  
 APPROVED BY: GRP  
 DATE: JAN. 2015  
 SCALE: NONE

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN  
**EROSION CONTROL DETAILS**

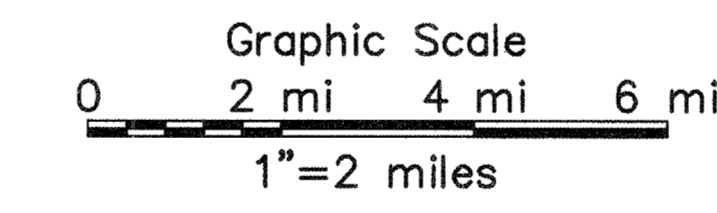
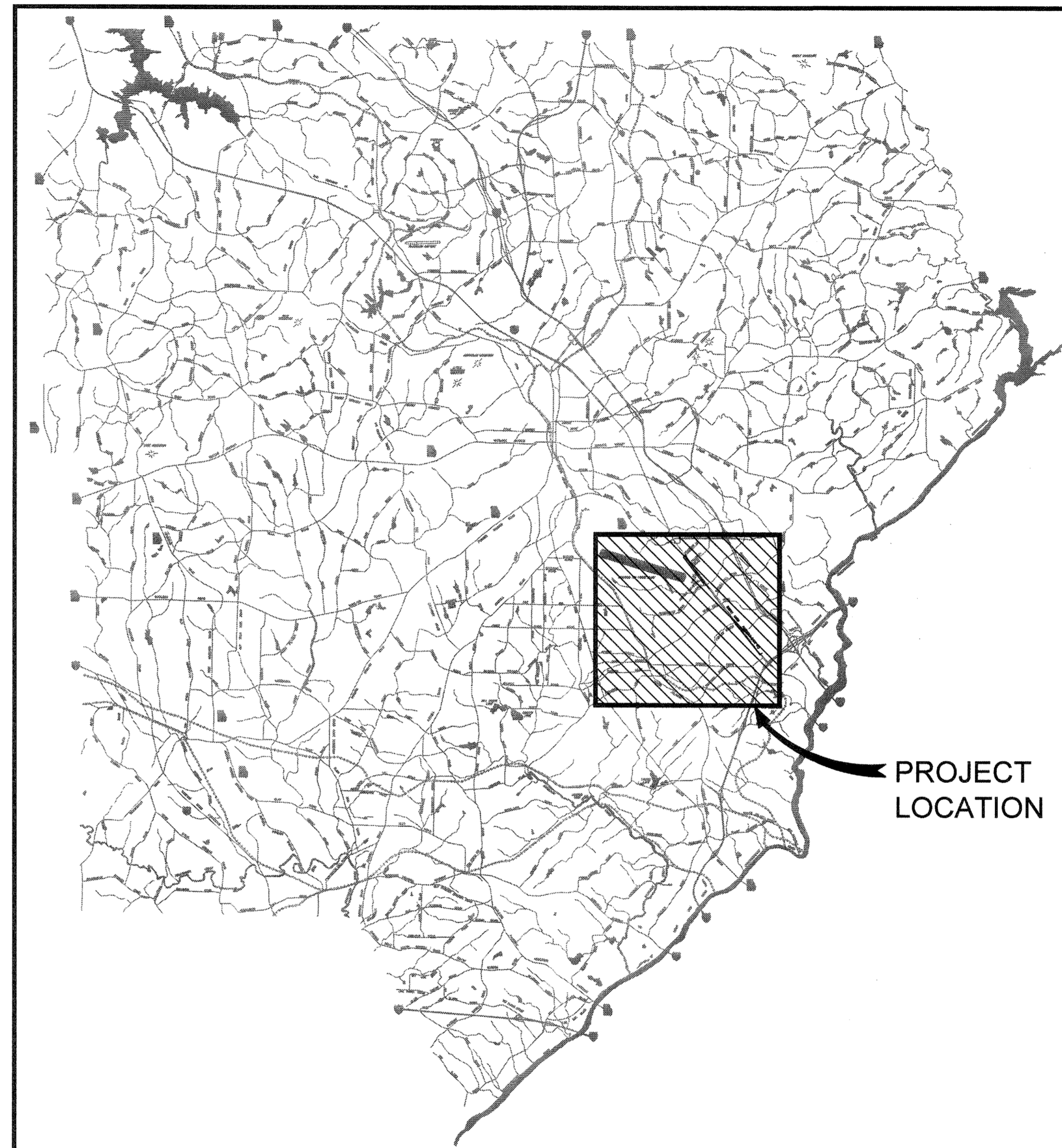
SHEET No.  
**EC-25**

100032548



**GENERAL NOTES:**

1. ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF MARIETTA DEVELOPMENT REGULATIONS, CITY OF SMYRNA DEVELOPMENT REGULATIONS AND MARIETTA BOARD OF LIGHTS AND WATER WATER SYSTEM SPECIFICATIONS.
2. THE DEVELOPER/OWNER IS COBB COUNTY - MARIETTA WATER AUTHORITY AND MARIETTA BOARD OF LIGHTS AND WATER
3. DESCRIPTION - THIS PROJECT . THE INSTALLATION OF 16", 36", AND 42" WATER MAINS.
4. "F.I.A. OFFICIAL FLOOD HAZARD MAP" COMMUNITY NO. 13067C, PAGES 0138G, 0136G, 0117G, DATED DECEMBER 2008 SHOWS THAT THIS PROJECT IS LOCATED IN AN AREA HAVING SPECIAL FLOOD HAZARDS.
5. THIS PROJECT IS LOCATED IN LAND LOTS 641, 656, 657, 710, 711, 712, 780, 805, 866, 807, 848, 849, 850. OF THE 17TH DISTRICT, 2ND SECTION, COBB COUNTY, GEORGIA.
6. THERE ARE NO KNOWN CEMETERIES LOCATED ON THIS SITE.
7. THE COBB COUNTY CEMETERY PRESERVATION COMMISSION RESERVES THE RIGHT TO EXAMINE THIS PROPERTY FOR ETHNIC, CULTURAL, AND RELIGIOUS EVIDENCE LOCATED THEREIN. IF ANY ETHNIC, CULTURAL, OR RELIGIOUS EVIDENCE IS FOUND DURING DEVELOPMENT, THEN THE COBB COUNTY CEMETERY PRESERVATION COMMISSION MUST BE NOTIFIED AT ONCE AT (770) 528-2035. FAILURE TO DO SO MAY RESULT IN A STOP-WORK ORDER.
8. THE ENGINEERING CONSULTANTS ARE ATKINS, 1600 RIVEREDGE PARKWAY, NW, SUITE 600, ATLANTA, GEORGIA 30328. PHONE: (770) 933-0280, FAX: (770) 426-5316.
9. CONSTRUCTION ACTIVITIES WILL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE LAWS AND REGULATIONS.
10. NOISE ABATEMENT SHALL BE OF A REASONABLE LEVEL. ALL EQUIPMENT MUST BE IN GOOD WORKING ORDER, MEANING NO BROKEN MUFFLERS, OIL OR HYDRAULIC FLUID LEAKS, ETC.
11. WORK HOURS WILL BE LIMITED TO MONDAY THROUGH SATURDAY, 8:00 A.M. TO 6:00 P.M., EXCEPT AS MODIFIED BY GDOT RESTRICTIONS AND REQUIREMENTS. NO WORK ALLOWED ON SUNDAYS.
12. THE VEGETATIVE STREAM BANK BUFFER EXTENDS 25' FROM THE TOP OF THE BANK ON BOTH SIDES OF ANY STREAM AND IS TO REMAIN UNDISTURBED, EXCEPT WHERE PROVISIONS GRANTED BY LAW.
13. THE CONTRACTOR SHALL GIVE A 24 HOUR AVAILABLE TELEPHONE NUMBER AND NAME OF A PERSON TO CONTACT IN AN EMERGENCY.
14. ALL CONSTRUCTION TRAILERS ARE TO BE PERMITTED THROUGH THE PLANNING AND ZONING DEPARTMENT.
15. ALL SIGNS ON THIS PROJECT ARE TO BE PERMITTED THROUGH CODE ENFORCEMENT / SIGN DIVISION.
16. ALL PAVEMENT, SIGNALS, CURB AND GUTTER, SIDEWALKS, STRIPING, SIGNAGE, AND DRAINAGE STRUCTURES DAMAGED OR REMOVED AS A RESULT OF THE CONSTRUCTION OF THIS WATER MAIN ARE TO BE REPLACED IN KIND BY THE CONTRACTOR.
17. CONSTRUCTION EQUIPMENT SHALL NOT BE PARKED IN THE RIGHT OF WAY, AND MUST BE STORED ADJACENT TO THE SITE.
18. NO CONSTRUCTION EQUIPMENT SHALL BE PARKED IN AREAS WHICH RESTRICT SIGHT DISTANCE.
19. STORAGE OF MATERIALS IS NOT ALLOWED ON ROADWAY RIGHT-OF-WAYS.
20. THE CONTRACTOR SHALL RESTORE ROADWAY SHOULDERS TO MINIMUM CITY OF MARIETTA AND CITY OF SMYRNA STANDARDS.
21. NO DROP-OFFS ADJACENT TO THE ROADWAY ARE ALLOWED TO REMAIN AFTER WORK HOURS.
22. TRAFFIC CONTROL DEVICES (SIGNS, SIGNALS, MARKINGS) AND CERTIFIED FLAGMAN ARE REQUIRED AND SHALL MEET MUTCD STANDARDS, LATEST EDITION, FOR ALL COMMERCIAL AND RESIDENTIAL WORK IN THE R/W.
23. WHERE BLASTING IS REQUIRED TO REMOVE SOLID ROCK, A PRE-BLAST AND POST-BLAST SURVEY WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL ROCK BLASTING WILL BE MONITORED AND RECORDED FOR RESOLVING ANY CLAIMS OF DAMAGE.
24. THE CONTRACTOR MUST CALL THE UTILITIES PROTECTION CENTER "CALL BEFORE YOU DIG" TELEPHONE NUMBER (811) AT LEAST 3 DAYS PRIOR TO STARTING ANY EXCAVATION.
25. TREE PROTECTION DEVICES SHALL BE INSTALLED BY THE CONTRACTOR AT THE SAME TIME AS EROSION CONTROL DEVICES. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF THE PROTECTION DEVICES.
26. TREE PROTECTION DEVICES, I.E. STRAPPED-ON PLANKING, SHALL BE INSTALLED AT THE DIRECTION OF THE ENGINEER.
27. ALL MARKETABLE TIMBER WILL BE SALVAGED. TOP SOIL WILL BE SALVAGED, STOCK-PILED, AND SPREAD ON AREAS TO BE VEGETATED. TREES OUTSIDE OF THE CLEARING LINE WILL BE PROTECTED FROM DAMAGE BY APPROPRIATE MARKINGS.
28. INFORMATION REGARDING UNDERGROUND UTILITIES ON THESE PLANS IS NOT GUARANTEED AS TO ACCURACY OR COMPLETENESS. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL REQUEST A FIELD LOCATION THROUGH THE UTILITY PROTECTION CENTER AND ANY UTILITY OWNERS THOUGHT TO HAVE FACILITIES IN THE AREA. THE CONTRACTOR SHALL PROMPTLY COMPARE THESE FIELD-MARKED LOCATIONS WITH THE PROJECT PLANS AND THEN NOTIFY THE ENGINEER OF ANY ANTICIPATED PROBLEMS OR NEED FOR CONTRACT CHANGES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXCAVATE OR CAUSE THE UTILITY OWNER TO EXCAVATE FOR THE PURPOSE OF DETERMINING EXACT ELEVATIONS OR LOCATIONS AT UTILITY CROSSINGS AND OTHER CRITICAL LOCATIONS WELL IN ADVANCE OF THE WORK UNDER THIS CONTRACT. DAMAGE TO EXISTING UTILITIES RESULTING FROM THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
29. ALL CONSTRUCTION WITHIN THE CITY OF MARIETTA AND CITY OF SMYRNA RIGHT-OF-WAY MUST COMPLY WITH THE AMERICANS' WITH DISABILITIES ACT (ADA) PER CITY OF MARIETTA ORDINANCE #5562.
30. AS-BUILT DATA WILL HAVE TO BE SUBMITTED BEFORE FINAL RELEASE IS OBTAINED. DATA TO BE GA STATE PLANE COORDINATE SYSTEM (WEST ZONE) UTILIZING NAD 83/94 ADJUSTMENT AND NAVD 88.



**COBB COUNTY VICINITY MAP**

I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT No. GAR 100002.

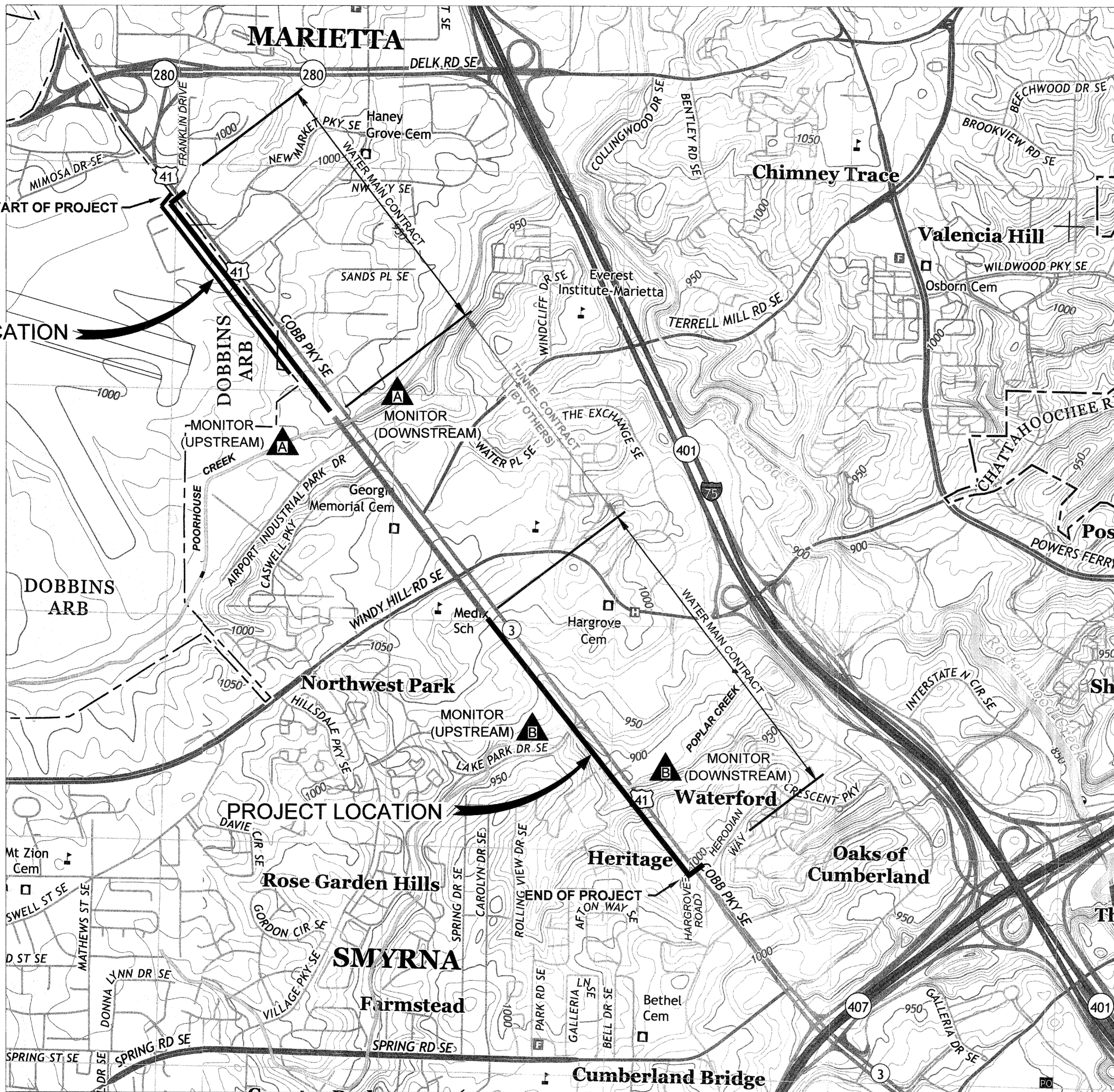
*[Signature]*  
 GILBERT R. PUFFER, P.E.  
 GAS/WCC LEVEL II CERTIFIED DESIGN PROFESSIONAL # 000021852  
 EXPIRES NOV., 04, 2015.

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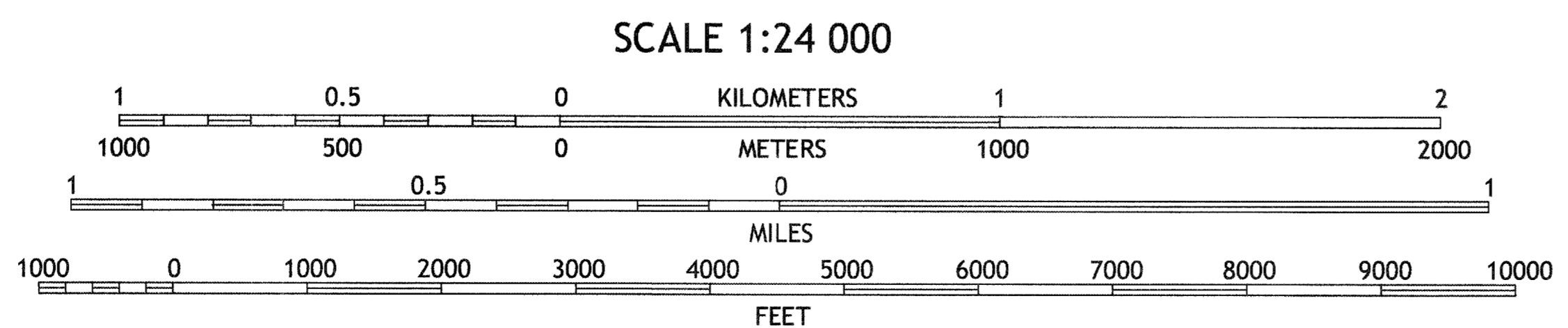
*[Signature]*  
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 GAS/WCC LEVEL II CERTIFIED DESIGN PROFESSIONAL # 000021852  
 EXPIRES NOV., 04, 2015.

	<p><b>ATKINS</b></p> <p>1600 RiverEdge Parkway, NW, Suite 600          Atlanta, Georgia 30328          P: 770-933-0280</p>												
	<p>COBB COUNTY WATER AUTHORITY          HIGHWAY 41 PHASE IV          WATER MAIN</p>												
<p>COMPREHENSIVE MONITORING          PLAN AND NOTES</p>	<p>SHEET No.  <b>CMP-1</b>          100032548</p>												
<p>PROJ. No.: 100032548          DESIGNED BY: GRP          DRAWN BY: JN          CHECKED BY: GRP          APPROVED BY: GRP          DATE: JAN. 2015          SCALE: AS SHOWN</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">REVISION</th> <th style="width: 10%;">DATE</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">A</td> <td style="text-align: center;">01/20/15</td> </tr> <tr> <td style="text-align: center;">B</td> <td></td> </tr> <tr> <td style="text-align: center;">C</td> <td></td> </tr> <tr> <td style="text-align: center;">D</td> <td></td> </tr> <tr> <td style="text-align: center;">E</td> <td></td> </tr> </tbody> </table>	REVISION	DATE	A	01/20/15	B		C		D		E	
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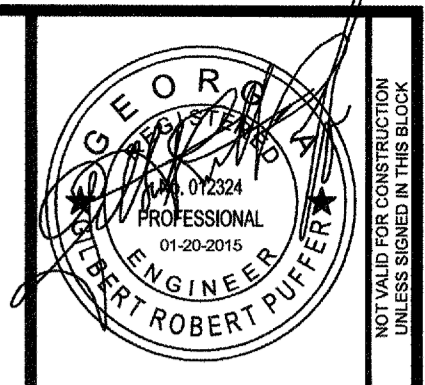
PROJECT LOCATION



**LEGEND:**  
 ▲ A OR ▲ B INDICATES MONITORING / SAMPLE POINTS

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATION DESCRIBED HERIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

*[Signature]*  
 GILBERT R. PUFFER, P.E.  
 GAS/WCC LEVEL II CERTIFIED DESIGN PROFESSIONAL # 000021852  
 EXPIRES NOV., 04, 2015.



**ATKINS**  
 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P. 770-933-0280



PROJ. No.:	DATE
100032548	01/20/15
DESIGNED BY: GRP	EROSION CONTROL PERMIT SET
DRAWN BY: JN	
CHECKED BY: GRP	
APPROVED BY: GRP	
DATE: JAN. 2015	
SCALE: AS SHOWN	

COBB COUNTY-MARIETTA WATER AUTHORITY  
 HIGHWAY 41 PHASE IV  
 WATER MAIN  
 COMPREHENSIVE MONITORING  
 SAMPLE POINT LOCATIONS PLAN

SHEET No.  
**CMP-2**  
 100032548

**COMPREHENSIVE MONITORING PLAN NOTES:**

1. A COMPREHENSIVE MONITORING PLAN (CMP) MUST BE IMPLEMENTED AS PART OF THE PROJECT'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN IN COMPLIANCE WITH THE EPD'S GENERAL PERMIT NO. 100001 (NPDES) PRIOR TO CONDUCTING ANY CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL KEEP A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN ON SITE AT ALL TIMES FROM THE PROJECT BEGINNING UNTIL FINAL STABILIZATION IS ACHIEVED.
2. THIS CMP HAS BEEN PREPARED BY A DESIGN PROFESSIONAL IN ACCORDANCE WITH THE PERMIT.
3. FOR LINEAR CONSTRUCTION, THE MONITORING MAY BE PHASED SO THAT A MONITOR IS ALWAYS DOWNSTREAM OF ACTIVE CONSTRUCTION. MONITORING OF OUTFALLS (DRAINAGE DITCHES) AND STREAMS IS NOT REQUIRED FOR INACTIVE PHASES OR FOR AREAS THAT HAVE UNDERGONE FINAL STABILIZATION AND ALL STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM THAT PHASE HAVE CEASED.
4. FOR MONITORING OUTFALLS, THE DISTURBED AREA ASSOCIATED WITH THIS PROJECT IS 7.0 ACRES. THE RECEIVING STREAMS ARE NOT TROUT STREAMS.  
**THIS PROJECT DOES NOT REQUIRE THE MONITORING OF OUTFALLS, SO THE APPENDIX B RATIONALE FOR OUTFALL SAMPLING IS NOT APPLICABLE.**
5. MONITORING SITES

FOR THE MONITORING OF THIS LINEAR INFRASTRUCTURE PROJECT, TWO MONITORING SITES HAVE BEEN SELECTED AND ARE SHOWN ON THE MAP ON SHEET CMP-2 OF THESE PLANS. BOTH MONITORING POINTS A AND B ARE TO BE LOCATED IN A PERENNIAL BLUE LINE STREAMS TRIBUTARY TO ROTTONWOOD CREEK. THE CONTRACTOR NEEDS TO SEEK OUT THE SOURCE OF ANY SILT FOUND IN THE STREAMS AFTER RAIN EVENTS. IF THE SILT IS A RESULT OF THE STOCKPILE SITE CONSTRUCTION WORK, THE BMP NEEDS TO BE REPAIRED OR REPLACED WITH A BMP THAT WILL BETTER CONTROL THE SILT SOURCE. IF THE SILT IS A RESULT OF LAND DISTURBANCE BY OTHERS, THEN THE CONTRACTOR NEEDS TO GATHER EVIDENCE OF THE SOURCE, INCLUDING DIGITAL PHOTOS, TO PROTECT THE CONTRACTOR AND OWNER FROM ANY ALLEGATIONS OF FAULT, AND ALERT THE CITY OF MARIETTA OR THE CITY OF SMYRNA REGARDING THE SOURCE OF THE SILT. AS DESCRIBED IN THE PERMIT, STREAM MONITORING IS REQUIRED FOR ANY SECTION OF STREAM THAT COLLECTS STORMWATER FROM AREAS DISTURBED BY THE WATER LINE CONSTRUCTION.

a. MONITOR A - THIS MONITOR SHALL BE INSTALLED AS SHOWN ON SHEET CMP-2, IN POORHOUSE CREEK A PERENNIAL BLUE LINE STREAM TRIBUTARY TO ROTTONWOOD CREEK, AT THE CULVERT WHERE THE CREEK CROSSES UNDER HWY 41. THIS MONITORING POINT SHALL MONITOR TURBIDITY LEVELS TO COMPARE WITH THE LEVELS RECORDED UPSTREAM. IF THE TURBIDITY OF THE STREAM INCREASES MORE THAN 25 NTUS BETWEEN UPSTREAM AND DOWNSTREAM, THE CONTRACTOR SHALL SEEK OUT AND DOCUMENT THE SOURCE OF THE SILT ENTERING THE STREAM. IF THE SOURCE IS DUE TO THE WATER MAIN CONSTRUCTION, THE CAUSE OF THE SILT SHALL BE LOCATED AND CORRECTED WITH PROPER BMPS. NO WATER CONSTRUCTION WORK SHALL BE CONDUCTED UPSTREAM OF MONITOR A WHILE THE TURBIDITY MEASUREMENTS AT MONITOR A ARE BEING COMPARED WITH THE READINGS AT THE UPSTREAM MONITOR. WATER FROM APPROXIMATELY 1,327 ACRES OF BASIN FLOWS TO THIS POINT.

b. MONITOR B - THIS MONITOR SHALL BE INSTALLED AS SHOWN ON SHEET CMP-2, IN POPLAR CREEK A PERENNIAL BLUE LINE STREAM TRIBUTARY TO ROTTONWOOD CREEK, AT THE CULVERT WHERE THE CREEK CROSSES HWY 41. THIS MONITOR SHALL MONITOR TURBIDITY LEVELS TO COMPARE WITH THE LEVELS RECORDED UPSTREAM OF WHERE THE CREEK CROSSES UNDER HWY 41. THIS MONITORING SITE A TOTAL ACREAGE OF APPROXIMATELY 782 ACRES. THE ALLOWABLE INCREASE IN THE NTU VALUE FOR THIS STREAM BETWEEN MONITORS IS 25 NTUS. EXISTING LAND USE IS RESIDENTIAL, LIGHT INDUSTRIAL, OFFICE/INSTITUTIONAL AND WOODLANDS.

6. COMPLIANCE WITH THE EPD'S NPDES GAR 100001 PERMIT  
THIS PROJECT IS EXPECTED TO DISTURB APPROXIMATELY 7.0 ACRES OF LAND. THIS IN TURN REQUIRES THE CONTRACTOR AND OWNER TO COMPLY WITH THE NPDES GAR 100001 PERMIT. A COPY OF THE PERMIT IS ENCLOSED IN THE BID DOCUMENTS. THIS CONTRACT HAS BEEN SET UP TO HAVE THE DESIGN PROFESSIONAL PREPARE THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN (THE PLAN). THE PRIMARY PERMITTEE (THE CONTRACTOR) WILL PREPARE AND SUBMIT THE NOI AND THE NOT TO THE EPD AND THE LOCAL ISSUING AUTHORITY AS THE PERMIT REQUIRES. IF THE SITE EXCEEDS 50 ACRES, THE PLAN WILL BE SUBMITTED WITH THE NOI. THE CONTRACTOR SHALL SIGN THE NOI AND THE NOT AS THE PRIMARY PERMITTEE. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF THE BMPS, DAILY INSPECTIONS AS REQUIRED BY THE PERMIT AND DAILY RAINFALL MEASUREMENTS AS STATED IN THE EROSION CONTROL NOTES SHOWN ON SHEET EC-04. THE CONTRACTOR WILL ALSO BE RESPONSIBLE FOR THE IMPLEMENTATION OF THE COMPREHENSIVE MONITORING PLAN (CMP), THE STORM WATER FLOW MONITORING, THE 14-DAY AND MONTHLY INSPECTIONS OF THE BMPS, COLLECTION OF RECORDS, AND THE REQUIRED REPORT PREPARATION AND SUBMITTAL. REPORTS ARE REQUIRED FOR EVERY MONTH. SINCE THE DESIGN, INSTALLATION AND MAINTENANCE OF THE BMPS PRESENTS A COMPLETE DEFENSE AGAINST ACTIONS BY THE EPD FOR VIOLATIONS, AND THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF THE BMPS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES IMPOSED BY THE EPD AGAINST THE PROJECT, AND THE OWNER SHALL BE HELD BLAMELESS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR SUGGESTING REVISIONS AND IMPROVEMENTS TO THE BMPS. THE DESIGN PROFESSIONAL SHALL INSPECT THE INSTALLATION OF THE BMPS WITHIN SEVEN DAYS AFTER CONSTRUCTION ACTIVITIES BEGIN AS REQUIRED BY THE PERMIT.

7. THE CONTRACTOR SHALL SUBMIT COPIES OF ALL INSPECTION AND MONITORING REPORTS TO THE OWNER AND TO THE ENGINEER ON A MONTHLY BASIS AND TO THE EPD WHEN THE PERMIT REQUIRES. FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL RESULT IN THE OWNER HOLDING PAYMENTS DUE TO THE CONTRACTOR.

8. COLLECTION AND ANALYSIS OF STORM WATER SAMPLES

ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH THE METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136, ENTITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND OTHER GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD. SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES. SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER. LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JAR SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION. MANUAL OR AUTOMATIC SAMPLING MAY BE UTILIZED. (IF AUTOMATIC SAMPLERS ARE USED, USE ONLY THOSE SAMPLERS APPROVED FOR USE BY THE GEORGIA EPD.) SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED. SAMPLING AND ANALYSIS OF THE RECEIVING WATERS OR OUTFALLS BEYOND THE MINIMUM FREQUENCY REQUIRED BY THIS PERMIT MUST BE REPORTED TO THE EPD AS SPECIFIED IN SECTION IV.E OF THE PERMIT.

SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT MUST BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATERS AND/OR OUTFALLS USING THE FOLLOWING GUIDELINES, DETAILED IN SECTION IV.D.6.C:

- A. THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE CONSTRUCTION PROJECT, BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT.
- B. THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE CONSTRUCTION PROJECT, BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT.
- C. IDEALLY, THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORM WATER OUTFALL CHANNEL(S).
- D. CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER OR OUTFALL CHANNEL.
- E. THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.
- F. THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.

9. PHASING OF SAMPLING AREAS

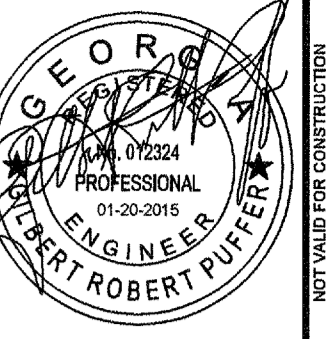
IF THE CONTRACTOR CHOOSES TO USE AUTOMATED SAMPLE COLLECTION EQUIPMENT, THE CONTRACTOR SHALL PROVIDE A MINIMUM OF TWO SAMPLING ASSEMBLIES TO WORK IN A SEQUENCE SO AS NOT TO DELAY THE CONSTRUCTION OF THE PROJECT. IN A TYPICAL AREA, THE CONTRACTOR SHALL ARRANGE TO HAVE THE SAMPLE COLLECTORS INSTALLED TO MONITOR THE AREA THAT WAS JUST SEEDED, THE AREA WHERE WORK IS CURRENTLY ONGOING, AND THE NEXT AREA TO BE WORKED IN. PLEASE NOTE THAT NO WORK CAN OCCUR IN A DRAINAGE BASIN UNTIL A MONITOR IS OPERATIONAL IN THAT BASIN. PLEASE ALSO NOTE THAT AREAS WHERE THE WORK IS COMPLETE AND THE AREA HAS BEEN SEEDED MUST BE MONITORED UNTIL THE AREA HAS REACHED FINAL STABILIZATION. FOR THESE PURPOSES, FINAL STABILIZATION IS DEFINED AS MEANING THAT AT LEAST 70% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION OR EQUIVALENT PERMANENT STABILIZATION MEASURES (SUCH AS RIP-RAP, PERMANENT MULCHES OR GEO-TEXTILES). PERMANENT VEGETATION SHALL CONSIST OF: PLANTED TREES, SHRUBS, PERENNIAL VINES, A CROP OF PERENNIAL VEGETATION APPROPRIATE FOR THE TIME OF YEAR AND REGION, OR A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION SUCH THAT WITHIN THE GROWING SEASON A 70% COVERAGE BY PERENNIAL VEGETATION SHALL BE ACHIEVED. ONCE AN AREA HAS ACHIEVED FINAL STABILIZATION, AS DETERMINED BY THE ENGINEER, THE MONITOR CAN BE REMOVED AND RELOCATED TO A SITE IN ADVANCE OF THE CONSTRUCTION.

APPENDIX 1

1. USE ANIONIC POLYACRYLAMIDE (PAM) AND/OR MULCH TO STABILIZE AREAS LEFT UNDISTURBED FOR MORE THAN (7) CALENDER DAYS IN ACCORDANCE WITH PART III. D.1. OF THE NPDES PERMIT.
2. CONDUCT TURBIDITY SAMPLING AFTER EVERY RAIN EVENT OF 0.5 INCHES OR GREATER WITHIN ANY 24 HOUR PERIOD, RECOGNIZING THE EXCEPTIONS SPECIFIED IN PART IV.D.6.d. OF THE NPDES PERMITS.
3. CERTIFIED PERSONNEL FOR PRIMARY PERMITTEES SHALL CONDUCT INSPECTIONS AT LEAST TWICE EVERY (7) CALENDER DAYS AND WITHIN 24 HOURS OF THE END OF THE STORM THAT IS 0.5 INCHES RAINFALL OR GREATER IN ACCORDANCE WITH PART IV.D.4.a.(3)-(a) - (c); SECONDARY PERMITTEES, PART IV.D.4.b.(3)-(a) - (c); AND TERTIARY PERMITTEES PART IV.D.4.c.(3)-(a) - (c).
4. APPLY THE APPROPRIATE COMPOST BLANKETS (MINIMUM DEPTH 1.5 INCHES) TO PROTECT SOIL SURFACES UNTIL VEGETATION IS ESTABLISHED DURING THE FINAL STABILIZATION PHASE OF THE CONSTRUCTION ACTIVITY.

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATION DISCRIBED HERIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

*Gilbert R. Puffer*  
GILBERT R. PUFFER, P.E.  
GAS/ACC LEVEL II CERTIFIED DESIGN PROFESSIONAL # 000021852  
EXPIRES NOV., 04, 2015.



**ATKINS**  
1600 RiverEdge Parkway, N.W., Suite 800  
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PROJ. No.: 100032548	DESIGNED BY: GRP	DRAWN BY: JN	CHECKED BY: GRP	DATE: JAN. 2015	SCALE: NO SCALE
DATE: 01/20/15	REVISION	EROSION CONTROL PERMIT SET			

COBB COUNTY-MARIETTA WATER AUTHORITY  
HIGHWAY 41 PHASE IV  
WATER MAIN

**COMPREHENSIVE MONITORING NOTES**

SHEET No.  
**CMP-3**  
100032548

COMPREHENSIVE MONITORING PLAN NOTES: (continued)

10. SAMPLING FREQUENCY

(1). The primary permittee must sample in accordance with the Plan at least once for each rainfall event described below. For a qualifying event, the permittee shall sample at the beginning of any storm water discharge to a monitored receiving water and/or from a monitored outfall location within in forty-five (45) minutes or as soon as possible.

(2). However, where manual and automatic sampling are impossible (as defined in this permit), or are beyond the permittee's control, the permittee shall take samples as soon as possible, but in no case more than twelve (12) hours after the beginning of the storm water discharge.

(3). Sampling by the permittee shall occur for the following qualifying events:

(a). For each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that occurs during normal business hours as defined in this permit after all clearing and grubbing operations have been completed, but prior to completion of mass grading operations, in the drainage area of the location selected as the sampling location;

(b). In addition to (a) above, for each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that occurs during normal business hours as defined in this permit either 90 days after the first sampling event or after all mass grading operations have been completed, but prior to submittal of a NOT, in the drainage area of the location selected as the sampling location, whichever comes first;

(c). At the time of sampling performed pursuant to (a) and (b) above, if BMPs in any area of the site that discharges to a receiving water or from an outfall are not properly designed, installed and maintained, corrective action shall be defined and implemented within two (2) business days, and turbidity samples shall be taken from discharges from that area of the site for each subsequent rain event that reaches or exceeds 0.5 inch during normal business hours\* until the selected turbidity standard is attained, or until post-storm event inspections determine that BMPs are properly designed, installed and maintained;

11. INSPECTIONS AND RAINFALL MEASUREMENTS

(1). Each day when any type of construction activity has taken place at a primary permittee's site, certified personnel provided by the primary permittee shall inspect: (a) all areas at the primary permittee's site where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment and (b) all locations at the primary permittee's site where vehicles enter or exit the site for evidence of off-site sediment tracking. These inspections must be conducted until a Notice of Termination is submitted.

(2). Measure rainfall once every 24 hours except any non-working Saturday, non-working Sunday and non-working Federal holiday until a Notice of Termination is submitted. Measurement of rainfall may be suspended if all areas of the site have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region.

(3). Certified personnel (provided by the primary permittee) shall inspect the following at least once every fourteen (14) calendar days and within 24 hours of the end of a storm that is 0.5 inches rainfall or greater (unless such storm ends after 5:00 PM on any Friday or on any non-working Saturday, non-working Sunday or any non-working Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day, whichever occurs first): (a) disturbed areas of the primary permittee's construction site; (b) areas used by the primary permittee for storage of materials that are exposed to precipitation; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the primary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region, the permittee must comply with Part IV.D.4.a.(4). These inspections must be conducted until a Notice of Termination is submitted.

(4). Certified personnel (provided by the primary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination is submitted to EPD) the areas of the site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s).

(5). Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following each inspection.

(6). A report of each inspection that includes the name(s) of certified personnel making each inspection, the date(s) of each inspection, construction phase (i.e., initial, intermediate or final), major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4.a.(5) of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction project that has been phased has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall be readily available by end of the second business day and/or working day and shall identify all incidents of best management practices that have not been properly installed and/or maintained as described in the Plan. Where the report does not identify any incidents, the inspection report shall contain a statement that the best management practices are in compliance with the Erosion, Sedimentation and Pollution Control Plan. The report shall be signed in accordance with Part V.G.2. of this permit.

12. REPORTING

A. THE CONTRACTOR IS REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN BELOW BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

B. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE DISTRICT OFFICE OF THE EPD SHOWN BELOW. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. IF AN ELECTRONIC SUBMITTAL IS PROVIDED BY EPD, THEN THE WRITTEN CORRESPONDENCE MAY BE SUBMITTED ELECTRONICALLY. IF REQUIRED, A PAPER COPY MUST ALSO BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL.

SUMMARY REPORTS SHALL BE SUBMITTED AS REQUIRED TO:

MOUNTAIN DISTRICT - CARTERSVILLE OFFICE  
 GEORGIA ENVIRONMENTAL PROTECTION DIVISION  
 P.O. BOX 3250  
 CARTERSVILLE, GEORGIA 30120-1705

C. THE CONTRACTOR SHALL BE FAMILIAR WITH AND ADHERE TO ALL REQUIREMENTS INCLUDED IN THIS EPD NPDES PERMIT GAR 100002 WITH REGARDS TO INSPECTIONS, SAMPLING AND REPORTING. THE CONTRACTOR SHALL ALSO SUBMIT COPIES OF ALL REPORTS AND SAMPLING RESULTS TO THE OWNER AND THE ENGINEER.

D. ALL SAMPLING RESULTS SHALL INCLUDE THE FOLLOWING INFORMATION:

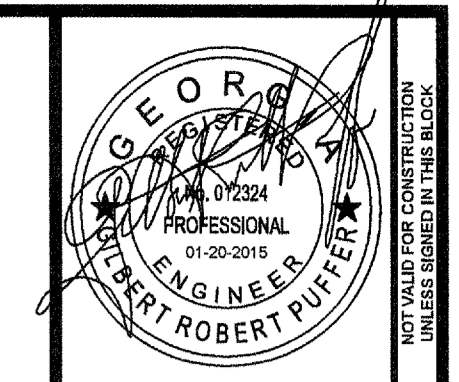
- a. THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS.
- b. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS.
- c. THE DATE(S) ANALYSES WERE PERFORMED.
- d. THE TIME(S) ANALYSES WERE INITIATED.
- e. THE NAMES OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES.
- f. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED;
- g. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS;
- h. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU".
- i. THE SUMMARY REPORT DETAILING THE FINDINGS OF THE DAILY, 14-DAY, AND MONTHLY INSPECTIONS OF THE BMPs, INCLUDING THE LOG OF THE EROSION CONTROL MEASURES AND RAINFALL.
- j. CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.

13. RETENTION OF RECORDS

A. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THE PERMIT:

- i. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD (NOIS, NOTS, ETC.);
- j. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
- k. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5 OF THIS PERMIT;
- l. THIS PERMIT;
- m. A COPY OF ALL SAMPLING INFORMATION, RESULTS AND REPORTS REQUIRED BY THIS PERMIT;
- n. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A OF THIS PERMIT;
- o. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2 OF THIS PERMIT; AND DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2) OF THIS PERMIT.

B. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS, INCLUDING ALL CALIBRATION AND MAINTENANCE REPORTS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION, OTHER REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE CONTRACTOR AND OWNER FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE CONTRACTOR'S AND OWNER'S PRIMARY PLACES OF BUSINESS OR AT A DESIGNATED LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PRIMARY PERMITTEE.



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 1600 RiverEdge Parkway, NW, Suite 600  
 Atlanta, Georgia 30328  
 P: 770-935-0280



DATE	01/20/15
REVISION	EROSION CONTROL PERMIT SET
PROJ. No.:	100032548
DESIGNED BY:	GRP
DRAWN BY:	JN
CHECKED BY:	GRP
APPROVED BY:	GRP
DATE:	JAN. 2015
SCALE:	NO SCALE
COBB COUNTY-MARIETTA WATER AUTHORITY HIGHWAY 41 PHASE IV WATER MAIN COMPREHENSIVE MONITORING NOTES	
SHEET No.	
<b>CMP-4</b>	
100032548	

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATION DISCRIBED HERIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

*[Signature]*  
 GILBERT R. PUFFER, P.E.  
 GASWCC LEVEL II CERTIFIED DESIGN PROFESSIONAL # 000021852  
 EXPIRES NOV., 04, 2015.