



# CORRIDOR ROAD WATER MAIN LOOP

## HOWARD COUNTY, MD CAPITAL PROJECT NO. W-8324 CONTRACT NO. 44-4864

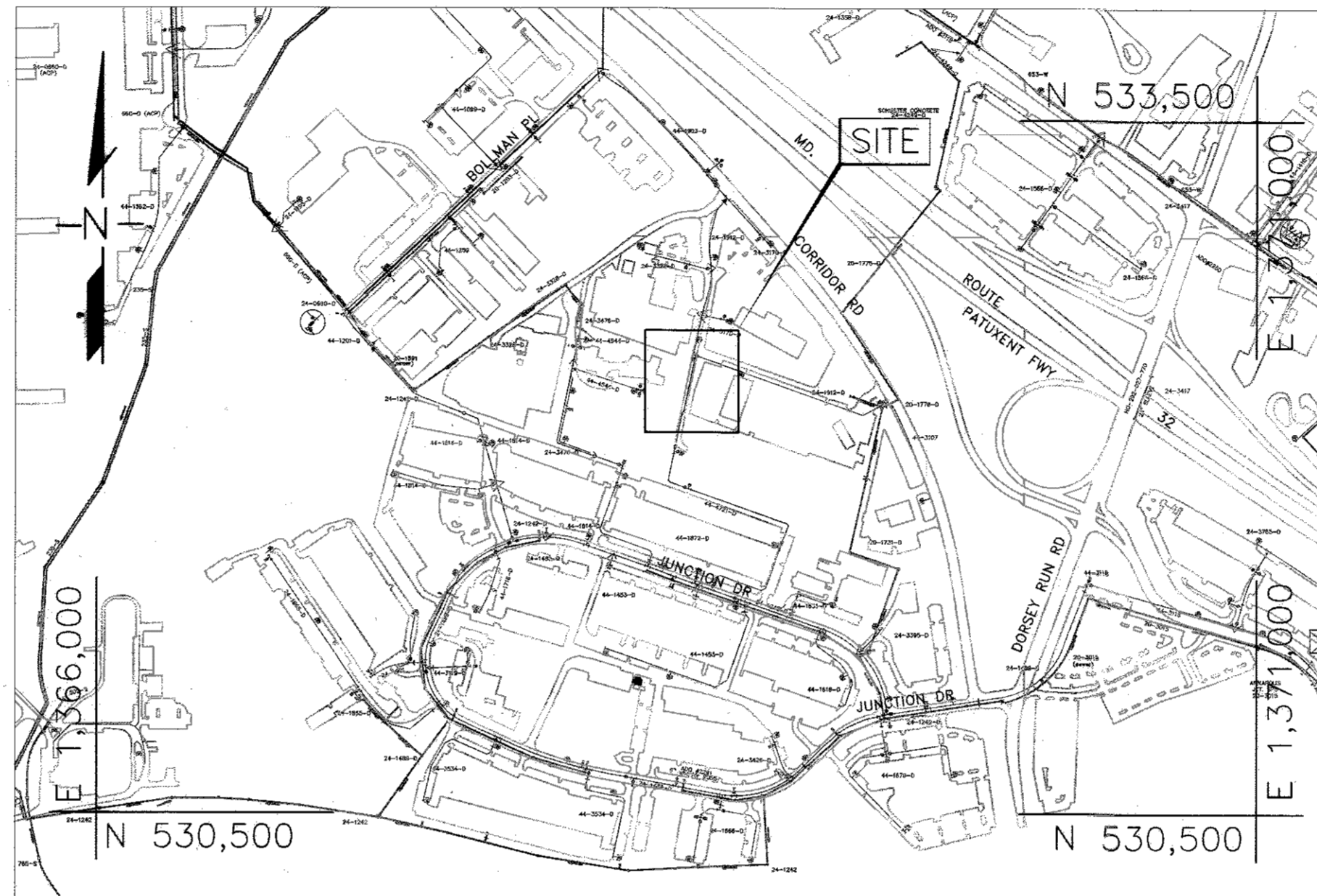
### GENERAL NOTES:

- PART I**
- APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
  - TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED IN DECEMBER 2013 BY MERCADO CONSULTANTS, INC.
  - HORIZONTAL AND VERTICAL SURVEY CONTROLS:  
THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83/'91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS: NO. 48DF, 48DC, 48G4  
ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE ALUMINUM STAMPED DISCS.
  - ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
  - CLEAR ALL UTILITIES BY A MINIMUM OF 12 INCHES. CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWED TO THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
  - FOR DETAILS NOT SHOWN ON THE DRAWING, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
  - NO TEST PITS HAVE BEEN PERFORMED FOR THIS PROJECT. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
  - THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

AT&T	1.800.252.1133
BGE (CONSTRUCTION SERVICES)	410.637.8713
BGE (EMERGENCY)	410.685.0123
BUREAU OF UTILITIES	410.313.4900
COLONIAL PIPELINE COMPANY	410.795.1390
MISS UTILITY	1.800.257.7777
STATE HIGHWAY ADMINISTRATION	410.531.5533
VERIZON	1.800.743.0033
MCI WORLDCOM	1.800.624.9675

- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR. AS SHOWN ON PLAN SHEET 2 OF 3, REMOVE THE ENTIRE TREE LOCATED ON THE RYDER PROPERTY AT STATIONS 1+04 AND 1+98, FOLLOWING REMOVAL OF TREE NEAR STATION 1+98, REGRADE AND PAVE THIS AREA WITH THE SAME ROAD MATERIAL THAT EXISTS ON THE CURRENT ROAD, WITH THICKNESSES NO LESS THAN AS SHOWN ON DETAIL PLAN SHEET 3 OF 3.
- THE CONTRACTOR SHALL REMOVE TREES, STUMPS, AND ROOTS ALONG THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- BEFORE THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410) 313-7450 AT LEAST FIVE WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(A) OF THE HOWARD COUNTY CODE.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AS WELL AS ANY EXISTING THRUST RESTRAINT.
- THE CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS SET FORTH IN THE MARYLAND HIGH VOLTAGE LINE ACT (HVLA). THE CONTRACTOR MUST NOTIFY BGE AT 800.685.0123 BEFORE ANY WORK BEGINS THAT MAY BRING PEOPLE OR EQUIPMENT WITHIN 10 FEET OF OVERHEAD UTILITY LINES. BGE WILL MAKE THE AREA SAFE FOR THE WORK TO BE DONE. HVLA GUIDELINES APPLY TO BOTH PROFESSIONAL AND NON-PROFESSIONAL WORKERS. NO ONE IS EXEMPT FROM COMPLIANCE.
- THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIRES THAT WHEN USING A CRANE OR DERRICK IN PERFORMANCE OF THE WORK SET FORTH IN THIS CONTRACT, A 20 FOOT CLEARANCE IS REQUIRED TO BE MAINTAINED FROM ALL OVERHEAD POWER LINES UNTIL THE VOLTAGE OF THE OVERHEAD LINE IS IDENTIFIED BY THE UTILITY OWNER. CONTACT BGE FOR ASSISTANCE WHEN USING CRANES OR DERRICKS AT 877.427.2008.
- THE CONTRACTOR SHALL MILL AND OVERLAY ASPHALT FOR THE ENTIRE ROAD SURFACE FROM CURB TO CURB. THE CONTRACTOR SHALL ALSO MILL AND OVERLAY 20 LINEAR FT FROM EACH SIDE BEYOND THE LIMITS OF THE NEW 8 INCH WATER MAIN.
- CONSTRUCTION SHALL BE BETWEEN THE WORKING HOURS OF 6:00 P.M. TO 5:00 A.M. MONDAY THROUGH SATURDAY AND FROM 6:00 P.M. ON SATURDAY THROUGH 5:00 A.M. ON MONDAY.
- CONTRACTOR IS TO CONTACT MR. JOHN L VOS ONE WEEK PRIOR TO THE START OF CONSTRUCTION. CONTACT PHONE NUMBER IS (301)498-5200.

- PART II - WATER**
- ALL PROPOSED WATER MAINS SHALL BE C900 PVC DR18 UNLESS OTHERWISE NOTED.
  - TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 4'-0" OF COVER UNLESS OTHERWISE NOTED.
  - VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
  - ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
  - FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
  - THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
  - TRACER WIRES AND CONTINUITY TEST STATIONS SHALL BE INSTALLED ON ALL PVC WATER MAINS IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL.
  - FOR PVC WATER MAINS, ALL RECORDS FOR THE QUALITY CONTROL AND QUALIFICATION TEST REQUIREMENTS NOTED IN SECTION 5.1 OF THE AWWA STANDARD C900 FOR PVC PRESSURE PIPE SHALL BE SUBMITTED WITH THE PIPE MATERIAL CERTIFICATIONS OR SHOP DRAWINGS PRIOR TO APPROVAL OF THE MATERIAL FOR USE. THE TEST RECORDS SHALL BE FOR THE PIPE TO BE INSTALLED UNDER THIS CONTRACT. ALL PVC PIPE SHALL CONTAIN MARKINGS TO ALLOW CROSS REFERENCING OF THE PIPE SUPPLIED TO THE TEST RECORDS RECEIVED.
  - UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS, SACRIFICIAL ANODES SHALL BE INSTALLED ON ALL VALVES AND METALLIC FITTINGS USED WITH PVC WATER MAINS IN ACCORDANCE WITH VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. SEVENTEEN (17) POUND MAGNESIUM ANODES SHALL BE INSTALLED ON ALL VALVES AND DUCTILE IRON FITTINGS INCLUDING RESTRAINTS AND HARNESSSES. TWELVE (12) POUND ZINC ANODES SHALL BE INSTALLED ON ALL IRON FITTINGS AND SADDLES USED WITH PVC MAINS. ALL "TEES" USED WITH PVC MAINS SHALL BE DUCTILE IRON.
  - PROPER ASSEMBLY OF GASKETED PVC PIPE JOINTS: THE MANUFACTURER'S INSERTION LINE OF GASKETED PVC PIPE JOINTS INDICATES THE MAXIMUM DEPTH OF INSERTION OF THE SPIGOT INTO THE BELL. AFTER ASSEMBLY OF THE JOINT, THE INSERTION LINE SHALL REMAIN VISIBLE. DUAL INSERTION LINES ON GASKETED PVC PIPE INDICATE THE MAXIMUM AND MINIMUM DEPTH OF INSERTION OF THE SPIGOT INTO THE BELL. THE CONTRACTOR SHALL NOT OVER INSERT OR OVER HOME THE SPIGOT INTO THE BELL OF THE PVC PIPE.



PRESSURE ZONE: 400 FT. (NAVD 88)  
TEST GRADIENT: 490 FT.

### VICINITY MAP

SCALE: 1"=600'

### LEGEND:

	W	EXIST. WATER MAIN / VALVE VAULT		STREAM / WATERWAY EDGE
	W	EXIST. WATER HOUSE CONNECTION		630E 550 WATER PRESSURE ZONE BOUNDARY
	TW	PROP. WATER MAIN		SHRUB
	TW	TEMP. WATER MAIN		PROP. VALVE
	W	EXIST. WATER MAIN TO BE ABANDONED		PROP. FIRE HYDRANT
	S	EXIST. SEWER MAIN / MANHOLE		BGE POLE
	S	EXIST. SEWER HOUSE CONNECTION		STREET SIGN
	SD	EXIST. STORM DRAIN		SB--#
	G	EXIST. GAS		TP--#
	G	EXIST. GAS SERVICE CONNECTION		CS
	E	EXIST. ELECTRIC - UNDERGROUND		SM
	E	EXIST. ELECTRIC - OVERHEAD		CI
	FO	EXIST. FIBER OPTIC		SC
	T	EXIST. TELEPHONE - UNDERGROUND		
	T	EXIST. TELEPHONE - OVERHEAD		
	O/H	RIGHT OF WAY		
	FO	GUARDRAIL		
	X	FENCE		
	SF	PROPERTY LINE		
	SF	SILT FENCE		
	LOD	LIMITS OF DISTURBANCE		
	LOD	ROAD CENTERLINE		
	LOD	TRAVERSE		
	LOD	EXIST. EASEMENT		
	LOD	PROP. EASEMENT		

### GENERAL NOTES (CONTINUED):

- PART II - WATER (CONTINUED)**
- ALL CHANGES IN HORIZONTAL OR VERTICAL DIRECTION OF PVC WATER PIPE SHALL BE MADE WITH STANDARD BENDS, 5-DEGREE SWEEPS OR HIGH DEFLECTION (HD) COUPLINGS. NO BENDING OF THE PIPE OR DEFLECTING OF PVC PIPE JOINTS IS PERMITTED. WHERE HIGH DEFLECTION COUPLINGS OR 5-DEGREE SWEEPS ARE PERMITTED, THE CONTRACTOR SHALL PROVIDE ONE FULL PIPE LENGTH (20-FOOT LONG) ON EITHER SIDE OF THE HIGH DEFLECTION COUPLING OR 5-DEGREE SWEEP. THE CONTRACTOR SHALL USE A VIBRATORY PLATE COMPACTOR OR OTHER APPROVED MEANS TO THOROUGHLY COMPACT THE #57 STONE ON BOTH SIDES OF THE HIGH DEFLECTION COUPLING OR 5-DEGREE SWEEP. TAKING CARE NOT TO USE COMPACTION EQUIPMENT DIRECTLY OVER THE FITTING. PVC HIGH DEFLECTION COUPLINGS SHALL BE LIMITED TO A TOTAL DEFLECTION OF 3-DEGREES (1/2-DEGREE ON EITHER END OF THE COUPLING). SHALL BE RATED FOR A MINIMUM 200 PSI MEETING THE REQUIREMENTS OF AWWA C900, SHALL HAVE A MINIMUM LAY LENGTH OF 9-INCHES AND SHALL HAVE CENTER STOPS. PVC HIGH DEFLECTION COUPLINGS SHALL BE CERTAINTIED PVC HIGH DEFLECTION (HD) STOP COUPLINGS OR EQUAL. FIVE DEGREE SWEEPS SHALL BE BELL BY SPIGOT, RATED FOR A MINIMUM 225 PSI, DR18 MEETING THE REQUIREMENTS OF AWWA C900 AND SHALL BE MULTI FITTINGS (IPEX) BLUE BRUTE DR18 OR EQUAL.
  - WHEN PVC HIGH DEFLECTION COUPLINGS OR PVC 5-DEGREE SWEEPS ARE USED TO FACILITATE CHANGES IN HORIZONTAL OR VERTICAL ALIGNMENTS OF AWWA C-900 PVC PIPELINES, THE CONTRACTOR SHALL INSTALL DEVICES FOR THE PREVENTION OF OVER-INSERTION OF THE PVC PIPE SPIGOTS OR PLAIN ENDS INTO THE PUSH ON BELL JOINT ON BOTH SIDES OF THE HIGH DEFLECTION COUPLINGS AND 5-DEGREE SWEEPS. BELL STOPS SHALL BE PLACED AT THE PROPER INSERTION LINE FOR THE FITTING. THE BELL STOP SHALL BE MANUFACTURED OF DUCTILE IRON AND INCORPORATE AN EXPANSION RETENTION SPRING TO ALLOW FOR PIPE EXPANSION AND CONTRACTION. THE BELL STOPS SHALL BE SERIES 5000 MEGA-STOP, AS MANUFACTURED BY EBAA IRON, INC. OR APPROVED EQUAL.

### INDEX OF SHEETS

SHEET SET NO.	DESCRIPTION
1	TITLE SHEET
2	PROP. 8" WATER MAIN - PLAN & PROFILE
3	SURVEY CONTROL DATA & DETAILS

### QUANTITIES

NAME OF UTILITY CONTRACTOR:				
SURVEY AND DRAFTING DIVISION AS-BUILT DATE:				
ITEM	UNITS	QUANTITY ESTIMATED	AS-BUILT	
			QUANTITY	MANUFACTURER / SUPPLIER
8" C900 PVC WATER MAIN	L.F.	276	276	NATIONAL PIPE & PLASTICS
1/8" HB & BUTTRESS	EA	2		TYLER / UNION FOUNDRY

**NOTE:**  
1. QUANTITIES IN THIS TABLE ARE SOLELY FOR RECORD PURPOSES. CONTRACTOR SHALL NOT RELY ON THE QUANTITIES IN THE TABLE AND SHALL USE HIS/HER OWN TAKEOFF TO ESTABLISH MATERIALS AND QUANTITIES NEED FOR THIS PROJECT.

#### ENGINEER'S DESIGN CERTIFICATION:

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

SIGNATURE OF ENGINEER  
EVAN R. ANDREWS, P.E.

DATE

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*[Signature]*  
DIRECTOR OF PUBLIC WORKS

DATE

*[Signature]*  
CHIEF, BUREAU OF ENGINEERING

DATE

*[Signature]*  
CHIEF, BUREAU OF UTILITIES

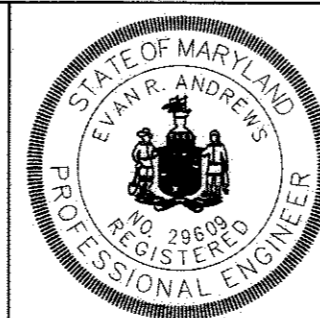
DATE

*[Signature]*  
CHIEF, UTILITY DESIGN DIVISION

DATE



MICHAEL BAKER INTERNATIONAL, LLC.  
1304 Concourse Drive, Suite 200  
Linthicum, MD 21090-1014  
Phone: (410) 689-3400



**PROFESSIONAL CERTIFICATION**  
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.  
LICENSE NO.: 22502  
EXPIRATION DATE: 11/01/17  
EVAN R. ANDREWS, P.E.

DESIGN: RND

DRAWN: RND

CHECKED: ERA

DATE: 02/26/16

NO.	REVISION	DATE	BY

TITLE SHEET

600 SCALE MAP NO. 48

BLOCK NO. 13

**RECORD DRAWINGS**  
TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, BASED ON INFORMATION PROVIDED BY OTHERS, THESE RECORD DRAWINGS SUBSTANTIALLY REPRESENT THE PROJECT AS CONSTRUCTED.

MICHAEL BAKER INTERNATIONAL

BY:

CORRIDOR ROAD  
WATER MAIN LOOP  
CONTRACT NO.: 44-4864  
CAPITAL PROJECT NO.: W-8324  
ELECTION DISTRICT 6  
HOWARD COUNTY, MARYLAND

SCALE

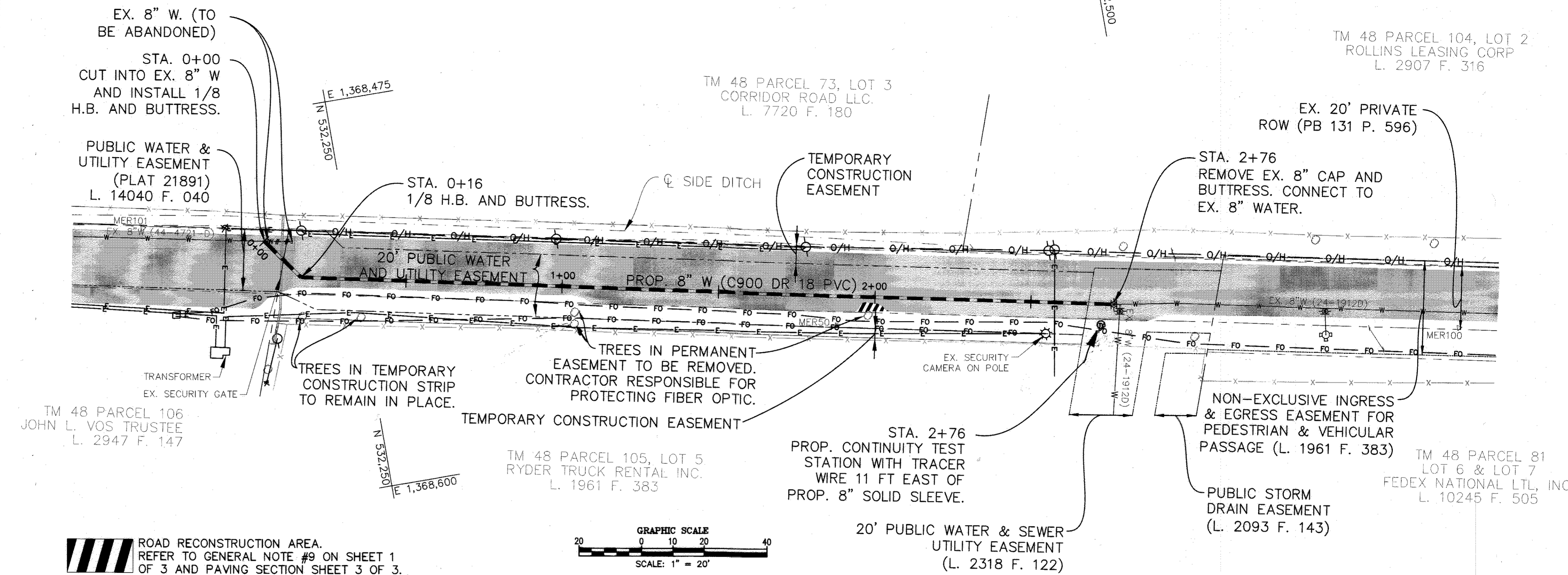
AS SHOWN

SHEET

1 OF 3

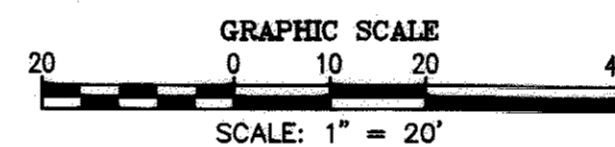


NOTE: EX. FIRE HYDRANT AND TEST STATION LOCATED 160 FT SOUTH OF THE TIE-IN @ STA. 0+00.

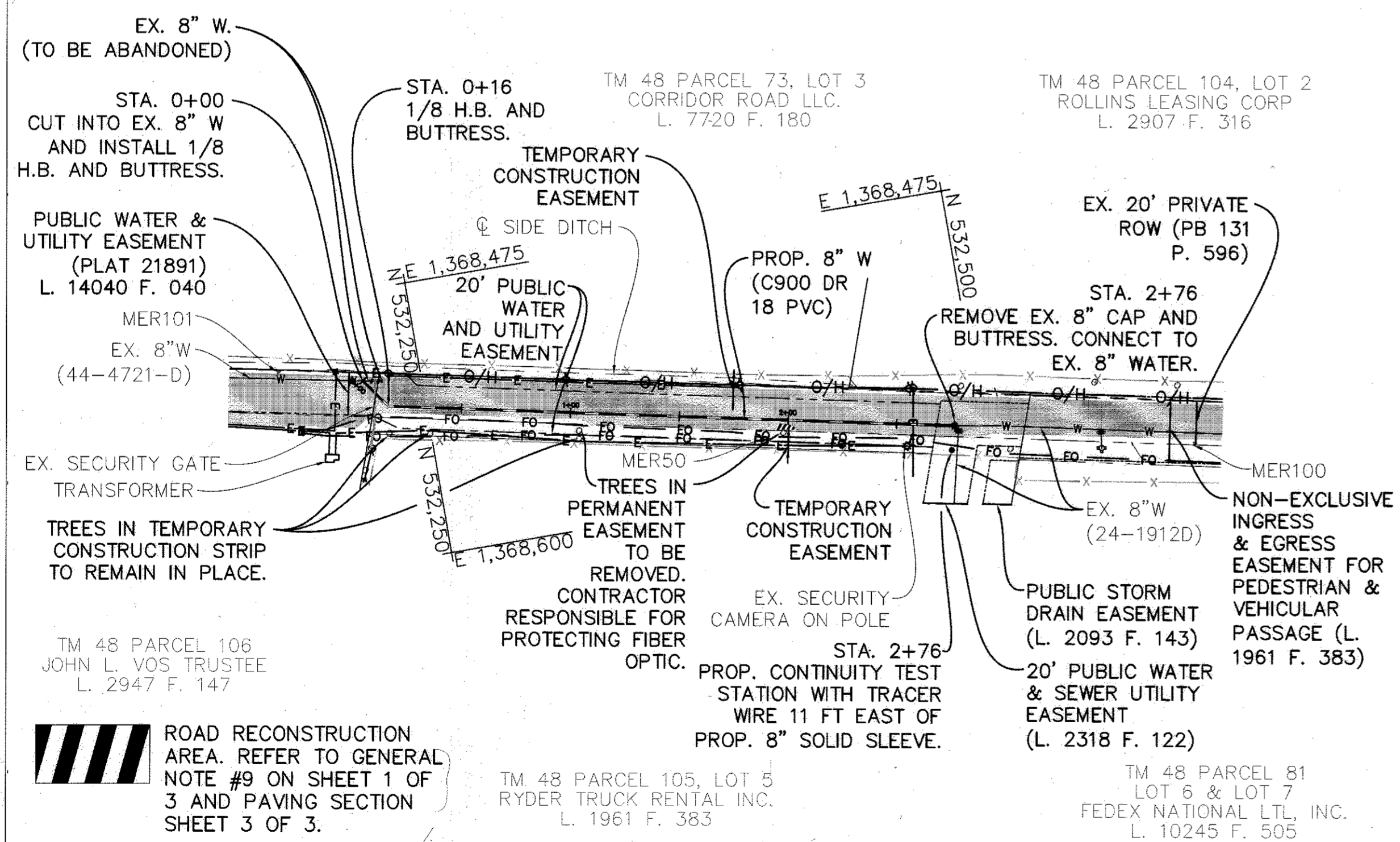


WATER MAIN TABULATION CHART			
W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: PARCEL 105			
0+00	1/8 H.B. & BUTTRESS	532,223.27	1,368,515.84
0+16	1/8 H.B. & BUTTRESS	532,232.89	1,368,529.26
2+76	EXISTING 8" PLUG & BUTTRESS	532,487.47	1,368,582.28

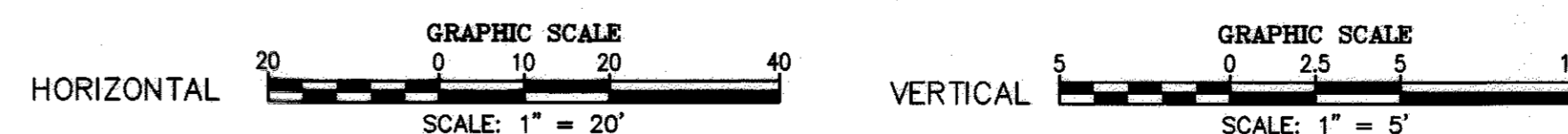
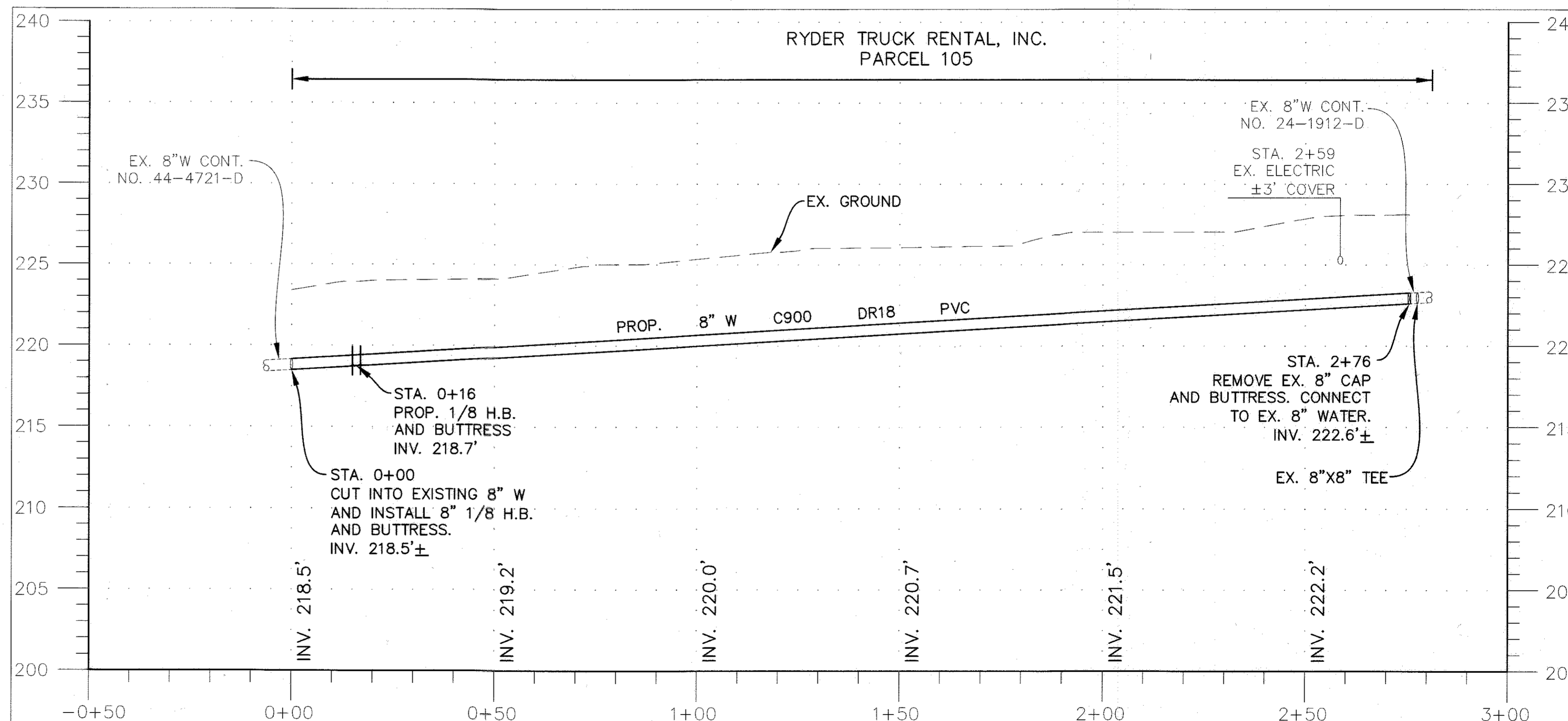
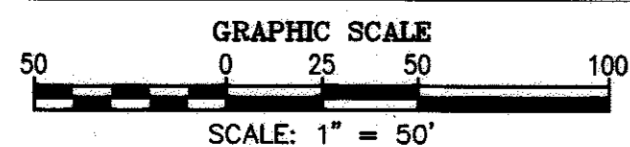
ROAD RECONSTRUCTION AREA. REFER TO GENERAL NOTE #9 ON SHEET 1 OF 3 AND PAVING SECTION SHEET 3 OF 3.



NOTE: EX. FIRE HYDRANT AND TEST STATION LOCATED 160 FT SOUTH OF THE TIE-IN @ STA. 0+00.



ROAD RECONSTRUCTION AREA. REFER TO GENERAL NOTE #9 ON SHEET 1 OF 3 AND PAVING SECTION SHEET 3 OF 3.



RECORD DRAWINGS TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, BASED ON INFORMATION PROVIDED BY OTHERS, THESE RECORD DRAWINGS SUBSTANTIALLY REPRESENT THE PROJECT AS CONSTRUCTED.

MICHAEL BAKER INTERNATIONAL

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 Director of Public Works: *John L. Vos*  
 Chief, Bureau of Engineering: *Thomas E. Butler*  
 Chief, Bureau of Utilities: *Steve C. Green*  
 Chief, Utility Design Division: *Steve C. Green*

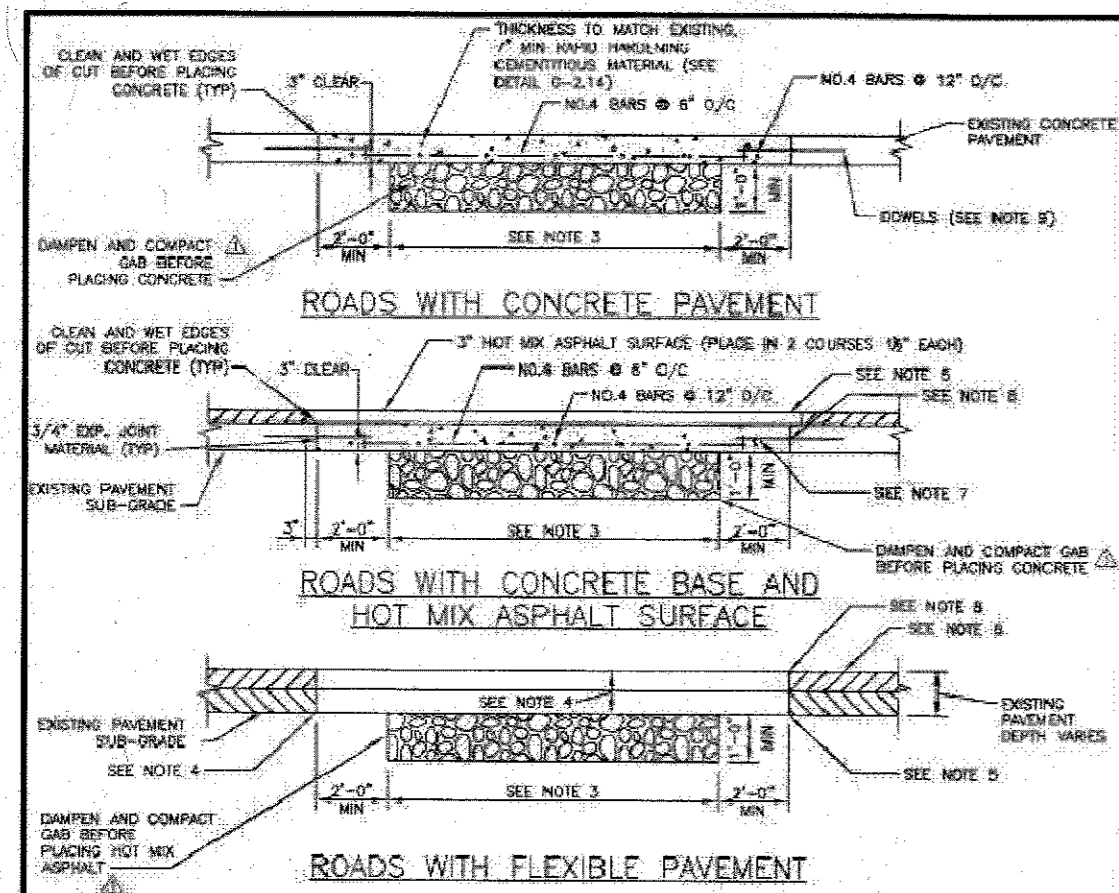
MICHAEL BAKER INTERNATIONAL, LLC.  
 1304 Concourse Drive, Suite 200  
 Lutherville, MD 21090-1014  
 Phone: (410) 568-3400

PROFESSIONAL CERTIFICATION  
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.  
 LICENSE NO.: 22562  
 EXPIRATION DATE: 11/19/22  
 EVAN R. ANDREWS, P.E.

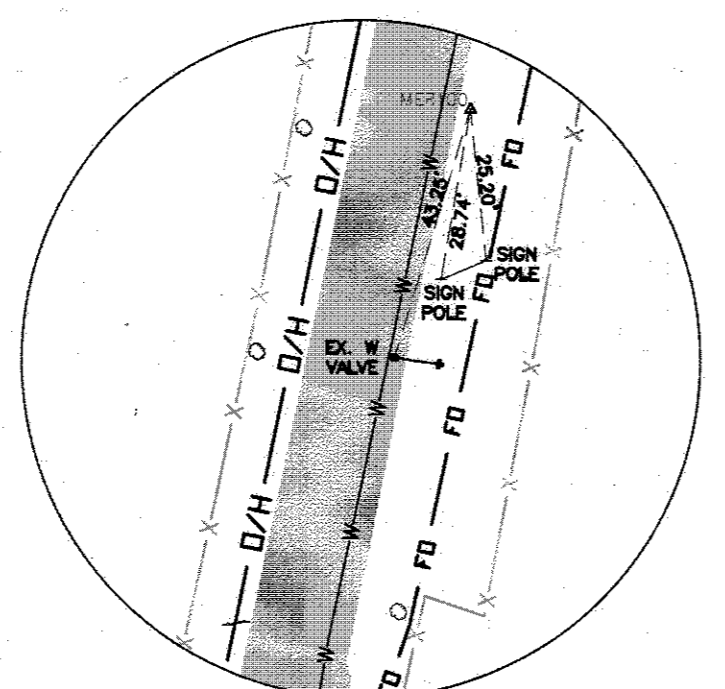
DESIGN: RND					
DRAWN: RND					
CHECKED: ERA					
DATE: 02/26/16	NO.	REVISION	DATE	BY	

CORRIDOR ROAD WATER MAIN LOOP  
 CONTRACT NO.: 44-4864  
 CAPITAL PROJECT NO.: W-8324  
 ELECTION DISTRICT 6  
 HOWARD COUNTY, MARYLAND  
 SCALE AS SHOWN  
 SHEET 2 OF 3

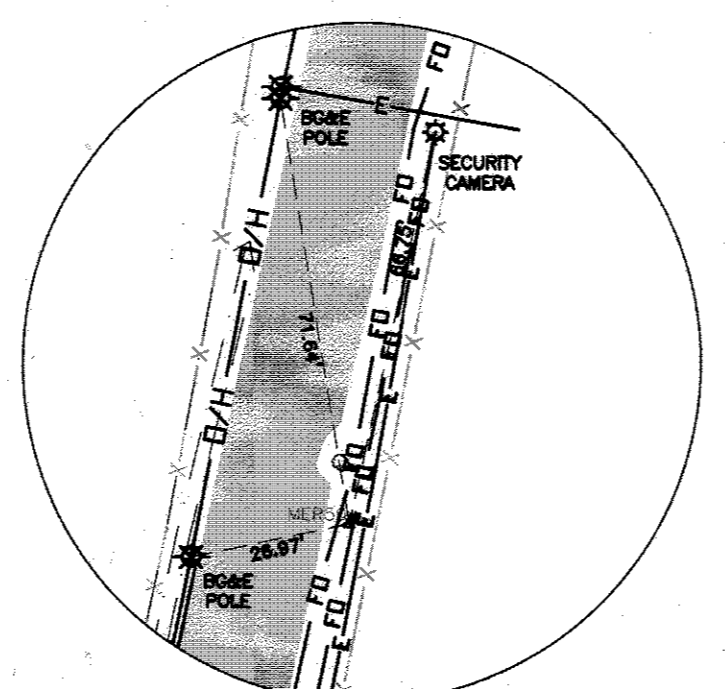




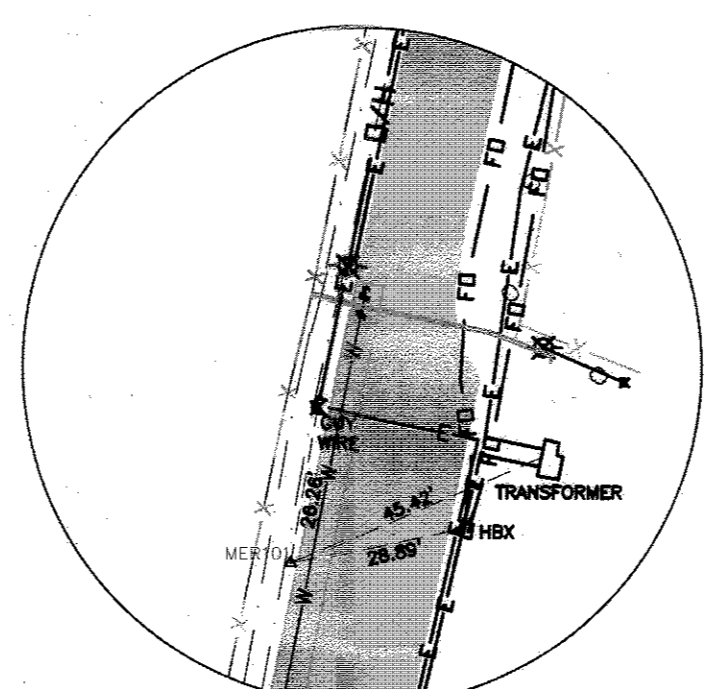
- NOTES:**
1. WHENEVER A TRENCH CROSSES A CONCRETE ROADWAY THAT THE JOINT INSTALLATIONS THE ENTIRE DEPTH BETWEEN THE EDGE OF THE TRENCH AND THE NEAREST JOINT SHALL BE REMOVED IF THE DISTANCE IS LESS THAN 10 FEET.
  2. CLEAN AND WET EDGES OF CUT AND SUBGRADE BEFORE PLACING CONCRETE.
  3. AGGREGATE SUB-BASE WITHIN SHALL BE 6 FT MINIMUM OR ACTUAL TRENCH WIDTH, WHICHEVER IS GREATER.
  4. HOT MIX ASPHALT PAVEMENT FROM THICKNESS SHALL BE EQUAL TO THE EXISTING FINISH SECTION OR AS APPROVED BY DPW. THE MINIMUM PAVING PATCH SHALL CONSIST OF 2" SMA SURFACE COURSE, FOUR 4" SMA BASE COURSE, LINED ACCORDING TO SPEC. (SMA) SHALL BE PLACED AND COMPACTED IN 6" MAXIMUM COMPACTED THICKNESS LAYERS.
  5. CLEAN EXPOSED VERTICAL SURFACE OF ADJACENT PAVEMENT AND PLACE TRICK COAT ON ALL VERTICAL SURFACES PRIOR TO PLACING SMA.
  6. IF THE REMAINING EXISTING PAVEMENT IS LESS THAN 4" WIDE, THE REMAIND PAVEMENT SHALL BE REMOVED IN ITS ENTIRETY AND REPLACED.
  7. CONCRETE REPLACEMENT SHALL BE 10" MINIMUM MIX NO. 6.
  8. SAW CUT FILL DEPTH ALL JOINTS OF EXISTING CONCRETE, BITUMINOUS, AND BASE PAVEMENTS.
  9. REINFORCEMENT OF CONCRETE PAVING SHALL BE ACCOMPLISHED BY DOWELS. DOWELS SHALL BE CENTERED IN PAVEMENT THICKNESS. REINFORCEMENT SHALL BE TIED TO DOWELS.
  10. TOTAL REPAIR WIDTH SHALL BE EQUAL TO THE LAKE WIDTH IN ACCORDANCE WITH THE SPECIFICATIONS.



MER100



MER50



MER101

TRAVERSE COORDINATE SCHEDULE				
TRAVERSE POINT	DESCRIPTION	NORTHING	EASTING	ELEVATION
MER50	REBAR & CAP	532399.17'	1368573.40'	226.34
MER100	REBAR & CAP	532594.78'	1368608.75'	229.89
MER101	REBAR & CAP	532185.73'	1368505.09'	223.17

Howard County, Maryland  
 Department of Public Works  
 Utility Trench  
 Roadway Repaving  
 Detail  
 G-4.01

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

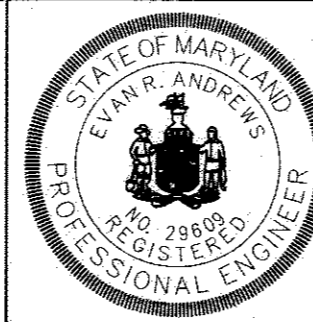
*John A. Stalke*  
 DIRECTOR OF PUBLIC WORKS  
 DATE

*Thomas P. Butler*  
 CHIEF, BUREAU OF ENGINEERING  
 DATE

*Steve C. Corn*  
 CHIEF, BUREAU OF UTILITIES  
 DATE

*Steve C. Corn*  
 CHIEF, UTILITY DESIGN DIVISION  
 DATE

Michael Baker INTERNATIONAL, LLC  
 1304 Concourse Drive, Suite 200  
 Linthicum, MD 21090-1014  
 Phone: (410) 889-3400



PROFESSIONAL CERTIFICATION  
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.  
 LICENSE NO. 28658  
 EXPIRATION DATE 11/19/17  
 Evan R. Andrews, P.E.

DESIGN: RND					
DRAWN: RND					
CHECKED: ERA					
DATE: 02/26/16	NO.	REVISION	DATE	BY	

SURVEY CONTROL DATA  
 & DETAILS

600 SCALE MAP NO. 48  
 BLOCK NO. 13

CORRIDOR ROAD  
 WATER MAIN LOOP  
 CONTRACT NO.: 44-4864  
 CAPITAL PROJECT NO.: W-8324  
 ELECTION DISTRICT 6  
 HOWARD COUNTY, MARYLAND

SCALE  
 AS SHOWN

SHEET  
 3 OF 3