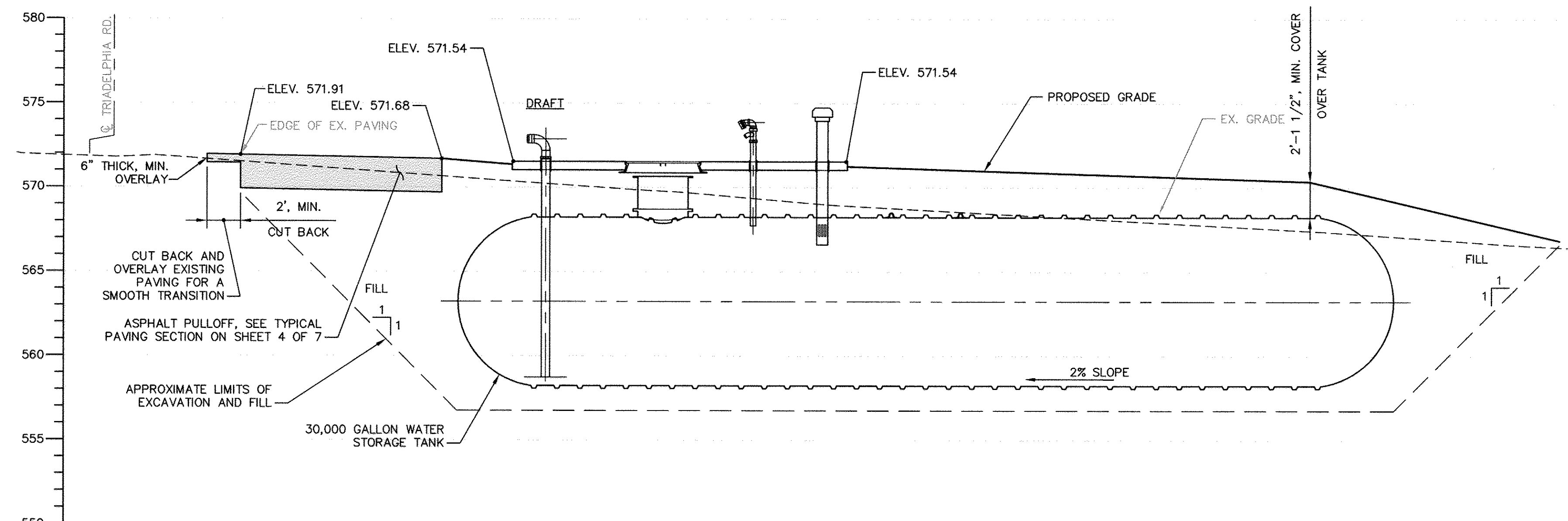




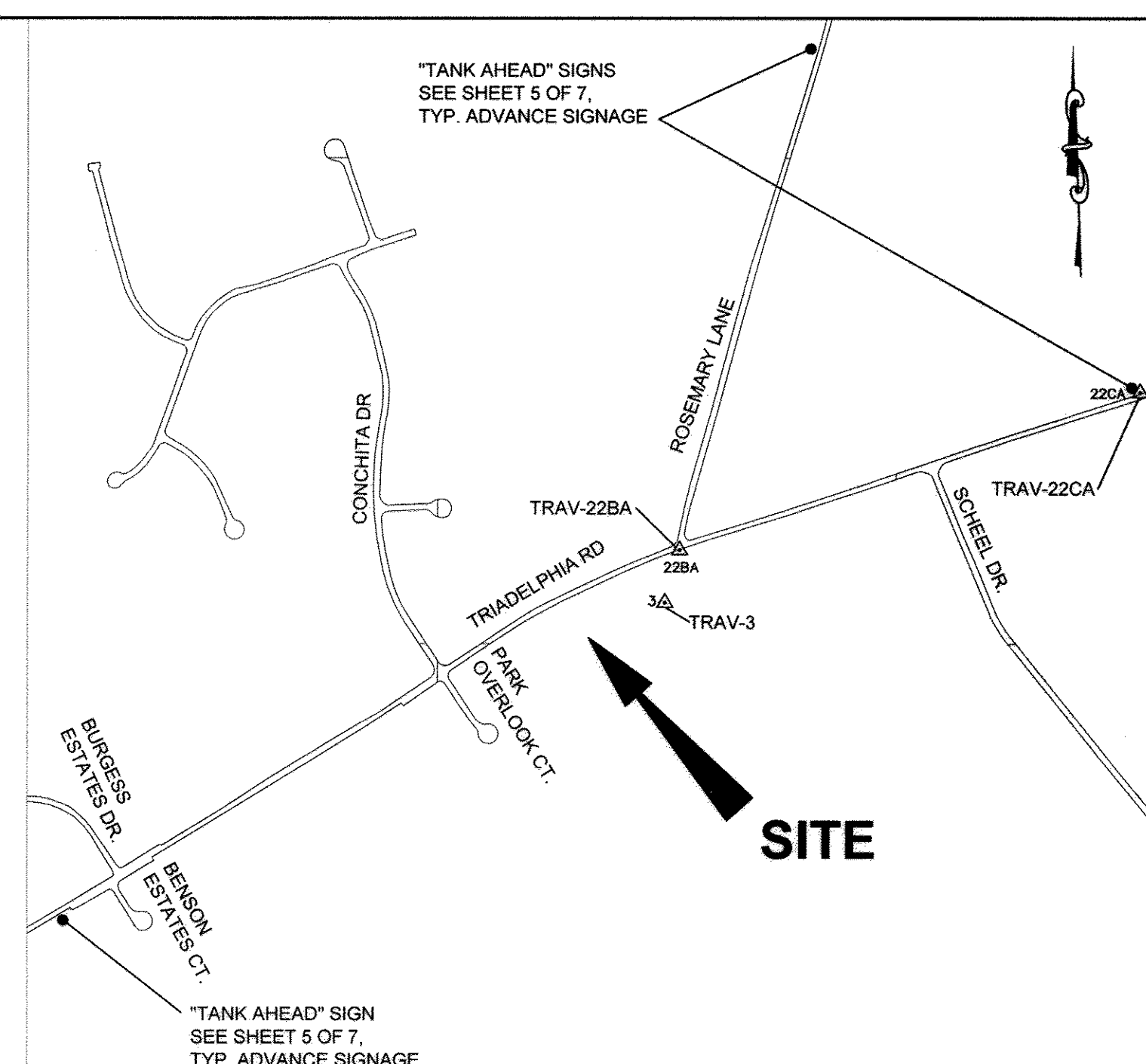


**NOTES:**

- FOR GENERAL TANK INSTALLATION, PIPING, SPECIFICATIONS, AND DETAILS REFER TO SHEETS 1-7 OF 7, INCLUSIVE.
- ALL TREES AND PLANTINGS INTERFERING WITH EXCAVATION SHALL BE REMOVED REPLACED WITH VIABLE TREES OF SIMILAR SPECIES. TREES AND PLANTINGS THAT ARE NOT CALLED OUT ON THE PLANS AND NEED TO BE REMOVED FOR CONSTRUCTION SHALL BE IDENTIFIED TO THE HOWARD COUNTY INSPECTOR PRIOR TO REMOVAL.
- THE CONTRACTOR SHALL TAKE ALL REASONABLE MEANS POSSIBLE TO PROTECT EXISTING TREES AND PLANTINGS WITHIN THE CONSTRUCTION AREA, AND SHALL REPLACE IN KIND THOSE DAMAGED OR REMOVED DURING CONSTRUCTION.
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL VOLUME IV, DATED MAY 7, 2007.
- CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ALL STAGING AREAS TO BE USED DURING CONSTRUCTION.
- THERE SHALL BE NO STOCKPILING OF EXCAVATED MATERIAL ON THE WORK SITE.
- ALL SURVEY STAKEOUT IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL TANK EXCAVATIONS MUST MEET OSHA REQUIREMENTS.
- THE CONTRACTOR SHALL USE JERSEY BARRIERS TO PROTECT THE EXCAVATION. (SEE DETAIL MD 104.01-23B)(11:1 MAX TAPER)
- USE MD 104.06-18 FOR WORKZONE SIGNING.
- USE MD 104.01-71 FOR CRASH CUSHION DETAIL. USE 30mph AS DESIGN SPEED.
- ROAD WORK 1500R. SIGN CAN BE ELIMINATED WHEN THE LENGTH OF ROAD IS LESS THAN 1500R.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SCHEDULE A MEETING WITH HOWARD COUNTY TRAFFIC CONTROL MANAGER FOR THE APPROVAL OF MOT PLANS.



**PROFILE A-A**  
SCALE: HORIZ - 1" = 5'-0"  
VERT. - 1" = 5'-0"



**SITE LOCATION MAP**

SCALE: 1" = 600'  
ADC MAP REFERENCE: HOWARD COUNTY MAP 4813 GRID FZ

**HORIZONTAL & VERTICAL CONTROL**

THE HORIZONTAL AND VERTICAL CONTROL SHOWN HEREON IS BASED ON GPS OBSERVATIONS FROM THE FOLLOWING N.G.S. TRAVERSE POINTS:

	NORTHING	EASTING	ELEV.
22BA	585134.83	1323322.68	576.01
22CA	585783.35	1325230.61	574.10

NAD 1983/91 (HORIZONTAL) NAVD 88 (VERTICAL) DATUM

**UTILITY NOTE**

THE UNDERGROUND UTILITY LOCATIONS SHOWN HEREON HAVE BEEN LOCATED FROM A COMBINATION OF FIELD SURVEY INFORMATION, AERIAL SURVEY LOCATIONS, AND/OR EXISTING DRAWINGS. THE ENGINEER MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE ENGINEER FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH HE DOES CERTIFY THAT THEY ARE INDICATED ON THE AFOREMENTIONED INFORMATION OBTAINED BY THE ENGINEER.

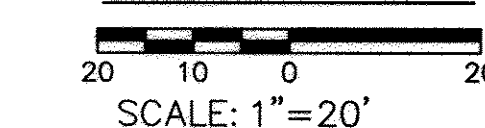
THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING "MISS UTILITY" 48 HOURS PRIOR TO CONSTRUCTION 1-800-257-7777.

THE CONTRACTOR SHALL BE AWARE OF THE OVERHEAD ELECTRIC LINES THAT ARE WITHIN THE SITE SO AS NOT TO COME IN CONTACT WITH SAID LINES WITH ANY EQUIPMENT USED.

**SITE ANALYSIS:**

TOTAL AREA OF SITE	0.170	ACRES
AREA DISTURBED	0.170	ACRES
AREA TO BE ROOFED OR PAVED	0.053	ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.117	ACRES
TOTAL CUT	451	CU. YDS.
TOTAL FILL	563	CU. YDS.
OFFSITE WASTE/BORROW AREA LOCATION	CONTRACTOR COORDINATE	

**GRAPHIC SCALE**



**AS-BUILT**  
DATE 5/17/2013

**QUANTITIES**

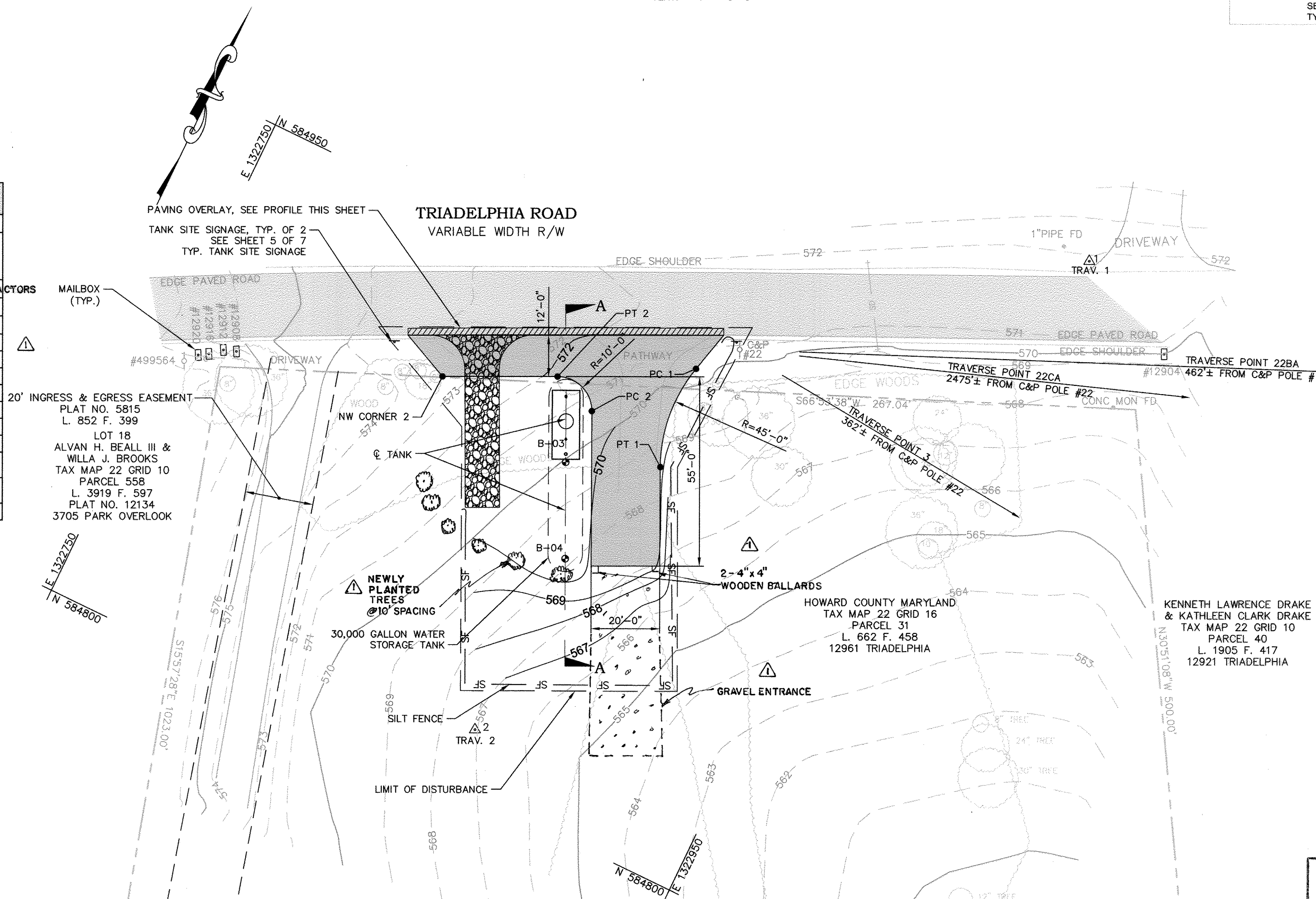
ITEM	UNIT	ESTIMATE	AS-BUILT	MANUFACTURER
MOBILIZATION / DEMOBILIZATION	LS	1	1	TANK DIRECT
30,000 GALLON END DRAFT WATER STORAGE TANK, COMPLETE IN PLACE, WITH PIPING CONNECTIONS PER TABLE 1, SHEET 5 OF 7	EA	1	1	XERXES COMPANY
ASPHALT PAVING (FULL DEPTH)	SF	2177	2177	AG PARROTT/H.T.I. CONTRACTORS
ASPHALT PAVING (MILL AND OVERLAY)	SF	185	185	H.T.I. CONTRACTORS
CONCRETE SLAB	SF	160	160	JMY CONCRETE
CLEARING AND GRUBBING	LS	1	1	TANK DIRECT
SIGN, SITE IDENTIFICATION	EA	2	2	NA.
SIGN, SITE ADVANCE	EA	3	3	NA.
SILT FENCE	LF	250	250	SMC ENVIRONMENTAL
SITE RESTORATION	SF	7444	7444	H.T.I. CONTRACTORS
TRAFFIC CONTROL	LS	1	1	TANK DIRECT

NAME OF UTILITY CONTRACTOR: H.T.I. CONTRACTORS.

CHECKBOX	AS-BUILT DATE	SURVEY AND DRAFTING DIVISION
<input type="checkbox"/>		

**STAKEOUT TABLE**

DESC	NORTHING	EASTING	ELEV
TRAV 1	585017.55	1322980.82	571.64
TRAV 2	584817.30	1322878.81	566.84
TRAV 22BA	585134.83	1323322.68	506.00
TRAV 22CA	585783.35	1325230.61	574.09
TRAV 3	584917.94	1323261.71	559.26
BORING B-03	584898.71	1322868.81	569.93
BORING B-04	584873.43	1322880.85	568.15
NW CORNER ASPHALT PULLOFF	584911.94	1322811.40	573.33
NE CORNER ASPHALT PULLOFF	584951.92	1322894.25	571.40
PC 1 ASPHALT DRIVE	584939.58	1322891.18	570.40
PT 1 ASPHALT DRIVE	584909.36	1322894.25	569.70
SE CORNER ASPHALT DRIVE	584883.49	1322906.59	569.00
SW CORNER ASPHALT DRIVE	584874.79	1322888.58	569.94
PC 2 ASPHALT DRIVE	584915.37	1322869.22	570.90
PT 2 ASPHALT DRIVE	584920.07	1322855.85	571.70
NW CORNER 2 ASPHALT DRIVE	584905.50	1322825.65	573.25
NW CORNER CONCRETE SLAB	584915.83	1322856.22	571.54
NE CORNER CONCRETE SLAB	584919.27	1322863.44	571.54
SE CORNER CONCRETE SLAB	584897.77	1322864.82	571.54
SW CORNER CONCRETE SLAB	584901.21	1322872.05	571.54
CENTER OF TANK MANWAY	584909.43	1322863.70	571.54



PROFESSIONAL CERTIFICATION. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 31363, Expiration Date 01/16/2014.

**PLAN**  
SCALE: 1" = 20'

KCI TECHNOLOGIES PROJECT No.: 01-07137823

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*[Signature]* 12/21/11  
DIRECTOR OF PUBLIC WORKS DATE

*[Signature]* 12/21/11  
ACT. CHIEF, BUREAU OF ENGINEERING DATE

*[Signature]* 12/21/11  
CHIEF, BUREAU OF UTILITIES DATE

*[Signature]* 12/21/11  
ACT. CHIEF, UTILITY DESIGN DIVISION DATE

**KCI TECHNOLOGIES**

ENGINEERS  
PLANNERS  
SCIENTISTS  
CONSTRUCTION MANAGERS

936 Ralston Road  
Sparks, MD 21152  
Phone: (410) 316-7800  
Fax: (410) 316-7817  
www.kci.com

STATE OF MARYLAND  
PROFESSIONAL ENGINEER  
No. 31363  
Expiration Date 01/16/2014

DES:	EDK		
DRN:	EDK		
CHK:	GW		
DATE:	12/2011		
LFN	AS BUILT	5-17-13	
BY	NO.	REVISION	DATE

BENSON BRANCH PARK

600' SCALE MAP NO. 22 BLOCK NO. 10

**UNDERGROUND WATER STORAGE TANKS FOR FIRE SUPPRESSION**

CAPITAL PROJECT No. F-5972  
CONTRACT No. 65-4733

ELECTION DISTRICT NO. 3 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET RT18



**STAKEOUT TABLE**

DESC	NORTHING	EASTING	ELEV
TRAV 1	543970.32	1333614.05	417.88
TRAV 2	544316.77	1333834.32	432.35
BORING B-11	544083.11	1333687.75	420.49
BORING B-12	544058.77	1333673.89	419.97
NW CORNER ASPHALT PULLOFF	544113.42	1333681.88	421.75
NE CORNER ASPHALT PULLOFF	544098.79	1333687.37	421.20
SW CORNER ASPHALT PULLOFF	544048.24	1333644.78	419.95
SE CORNER ASPHALT PULLOFF	544051.00	1333660.15	419.85
NW CORNER CONCRETE SLAB	544087.97	1333685.91	421.64
NE CORNER CONCRETE SLAB	544084.01	1333692.86	421.64
SW CORNER CONCRETE SLAB	544070.59	1333676.02	421.64
SE CORNER CONCRETE SLAB	544066.63	1333682.97	421.64
CENTER OF TANK MANWAY	544075.13	1333683.20	421.64

**QUANTITIES**

ITEM	UNIT	ESTIMATE	AS-BUILT	MANUFACTURER
MOBILIZATION / DEMOBILIZATION	LS	1	1	TANK DIRECT
30,000 GALLON CENTER DRAFT WATER STORAGE TANK, COMPLETE IN PLACE, WITH PIPING CONNECTIONS PER TABLE 1, SHEET 5 OF 7	EA.	1	1	XERXES COMPANY
ASPHALT PAVING (FULL DEPTH)	SF	780	780	AGPARROTT/H.T.I. CONTRACTORS
ASPHALT PAVING (MILL AND OVERLAY)	SF	150	150	H.T.I. CONTRACTORS
CONCRETE SLAB	SF	160	160	J.M.V. CONCRETE
SIGN, SITE IDENTIFICATION	EA	2	2	NA.
SIGN, ADVANCE	EA	2	2	NA.
SILT FENCE	LF	280	280	SMC ENVIRONMENTAL
SITE RESTORATION	SF	12200	12200	H.T.I. CONTRACTORS
TRAFFIC CONTROL	LS	1	1	TANK DIRECT
NAME OF UTILITY CONTRACTOR: H.T.I. CONTRACTORS				
CHECKBOX				
AS-BUILT DATE				
SURVEY AND DRAFTING DIVISION				

**NOTES:**

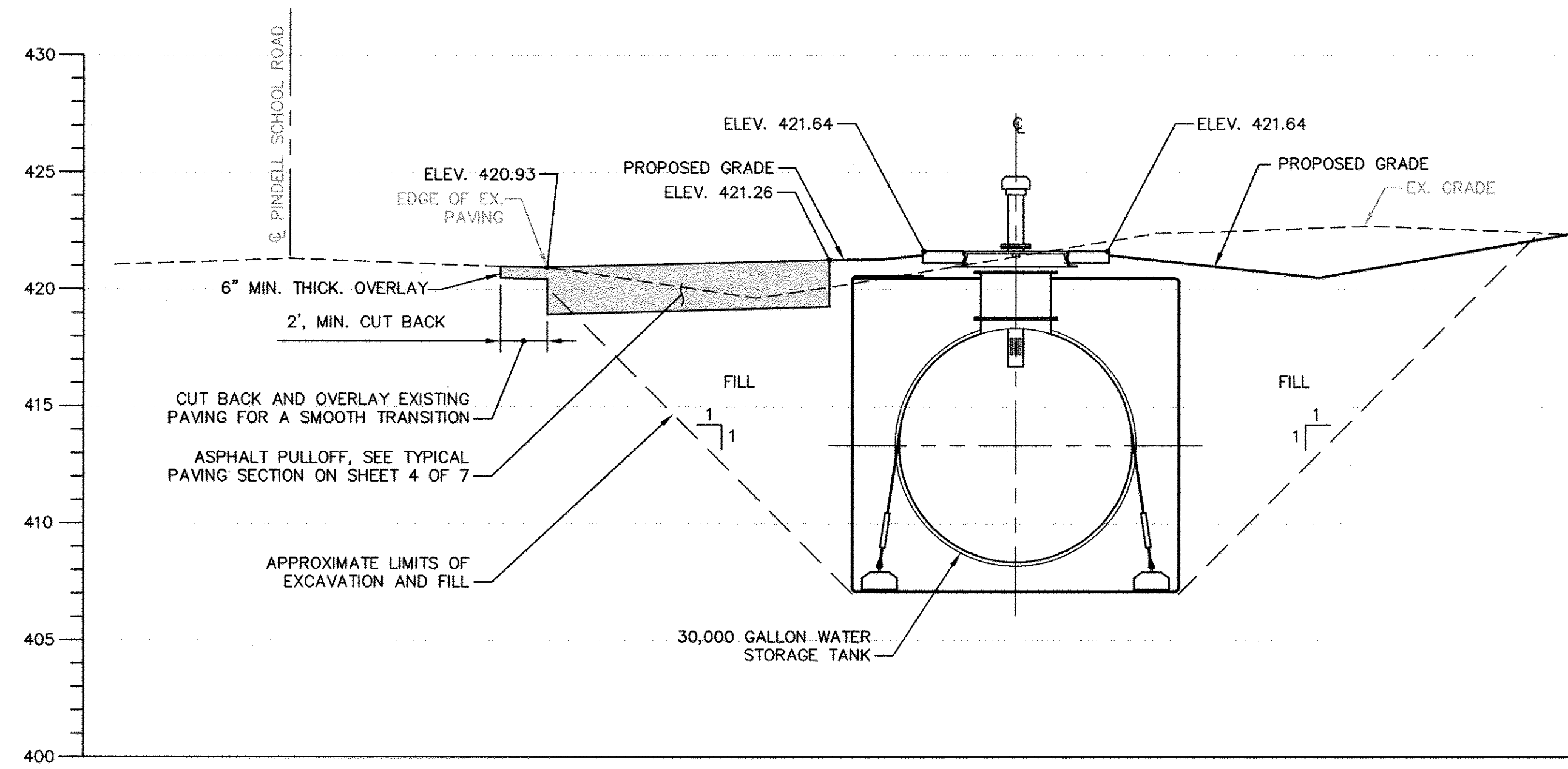
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- THE CONTRACTOR SHALL TAKE ALL REASONABLE MEANS POSSIBLE TO PROTECT EXISTING TREES AND PLANTINGS WITHIN THE CONSTRUCTION AREA, AND SHALL REPLACE IN KIND THOSE DAMAGED OR REMOVED DURING CONSTRUCTION.
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- ALL TANK EXCAVATIONS MUST MEET OSHA REQUIREMENTS.
- THE CONTRACTOR SHALL USE JERSEY BARRIERS TO PROTECT THE EXCAVATION. (SEE DETAIL MD 104.01-23B)(11:1 MAX TAPER)
- USE MD 104.06-18 FOR WORKZONE SIGNING.
- USE MD 104.01-71 FOR CRASH CUSHION DETAIL. USE 30mph AS DESIGN SPEED.
- ROAD WORK 1500FT. SIGN CAN BE ELIMINATED WHEN THE LENGTH OF ROAD IS LESS THAN 1500FT.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SCHEDULE A MEETING WITH HOWARD COUNTY TRAFFIC CONTROL MANAGER FOR THE APPROVAL OF MOT PLANS.

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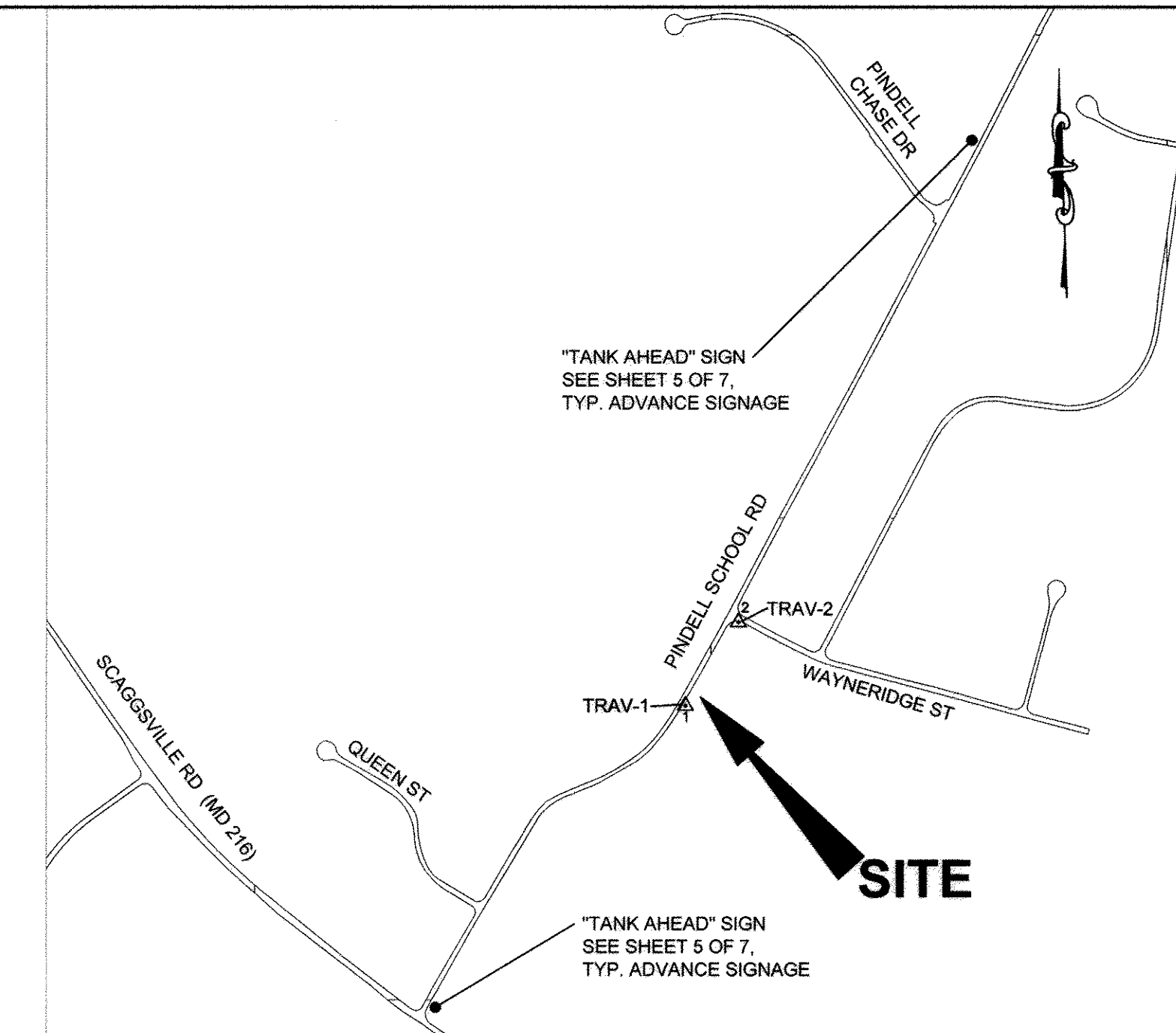
THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING "MISS UTILITY" 48 HOURS PRIOR TO CONSTRUCTION 1-800-257-7777.

PROFESSIONAL CERTIFICATION. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State Of Maryland, License No. 31363, Expiration Date 01/16/2014.



**PROFILE A-A**

SCALE: HORIZ - 1" = 5'-0"  
VERT. - 1" = 5'-0"



**SITE LOCATION MAP**

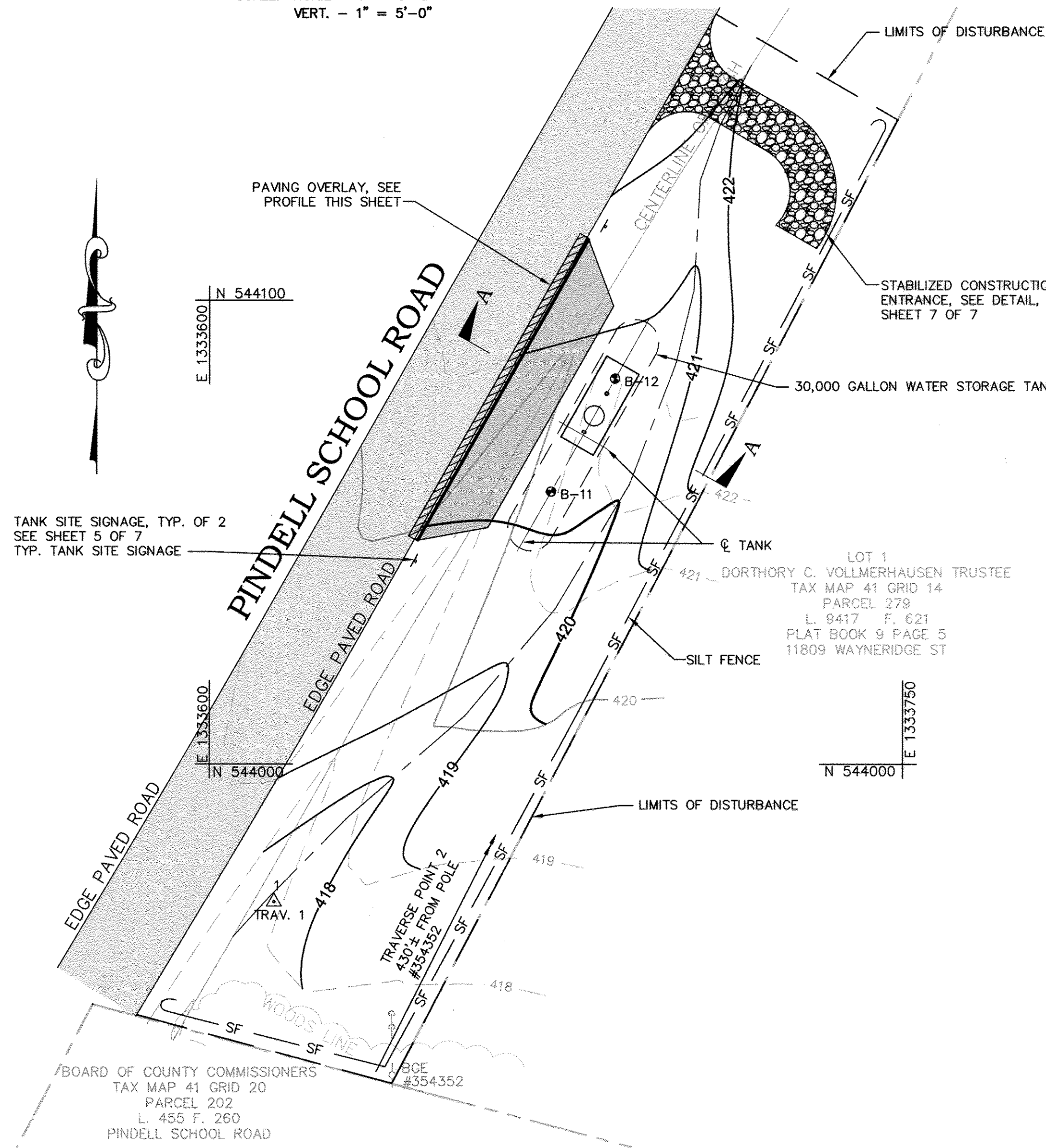
SCALE: 1" = 600'  
ADC MAP REFERENCE: HOWARD COUNTY MAP 5052 GRID CS

**HORIZONTAL & VERTICAL CONTROL**

THE HORIZONTAL AND VERTICAL CONTROL SHOWN HEREON IS BASED ON GPS OBSERVATIONS FROM THE FOLLOWING N.G.S. TRAVERSE POINTS:

	NORTHING	EASTING	ELEV
41DA	546930.86	1335137.92	488.39
41DB	545635.05	1334511.97	471.42

NAD 1983/91 (HORIZONTAL) NAVD 88 (VERTICAL) DATUM



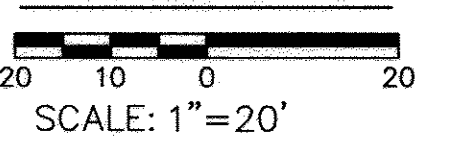
**PLAN**

SCALE: 1" = 20'

**SITE ANALYSIS:**

TOTAL AREA OF SITE	0.28	ACRES
AREA DISTURBED	0.28	ACRES
AREA TO BE ROOFED OR PAVED	0.02	ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.26	ACRES
TOTAL CUT	570	CU. YDS.
TOTAL FILL	451	CU. YDS.
OFFSITE WASTE/BORROW AREA LOCATION	CONTRACTOR COORDINATE	

**GRAPHIC SCALE**



**AS-BUILT**  
DATE: 5/17/2013

KCI TECHNOLOGIES PROJECT No.: 01-07137823

User: kci\jackson Date: 12/19/11 M: 10:14 AM

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

Director of Public Works: [Signature] DATE: 12/21/11  
Act. Chief, Bureau of Engineering: [Signature] DATE: 12/21/11

Chief, Bureau of Utilities: [Signature] DATE: 12/21/11  
Act. Chief, Utility Design Division: [Signature] DATE: 12/21/11

**KCI TECHNOLOGIES**  
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936 Ridgebrook Road  
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FAX: (410) 316-7817  
www.kci.com

STATE OF MARYLAND  
Professional Engineer  
[Signature]  
12/19/11

DES:	EDK
DRN:	KFJ
CHK:	GW
DATE:	12/20/11
LFN	AS BUILT
BY	NO.
REVISION	
DATE	5-17-13

PINDELL SCHOOL ROAD

600' SCALE MAP NO. 41 BLOCK NO. 14

**UNDERGROUND WATER STORAGE TANKS FOR FIRE SUPPRESSION**

CAPITAL PROJECT No. F-5972  
CONTRACT No. 65-4733

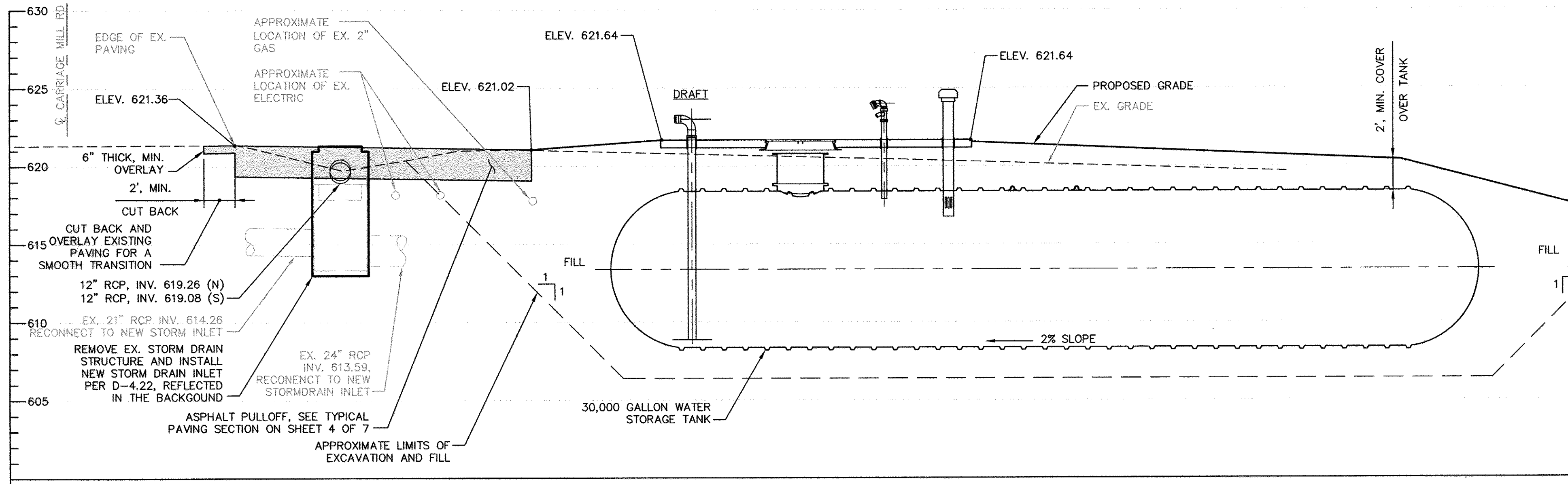
ELECTION DISTRICT NO. 5 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET RT25

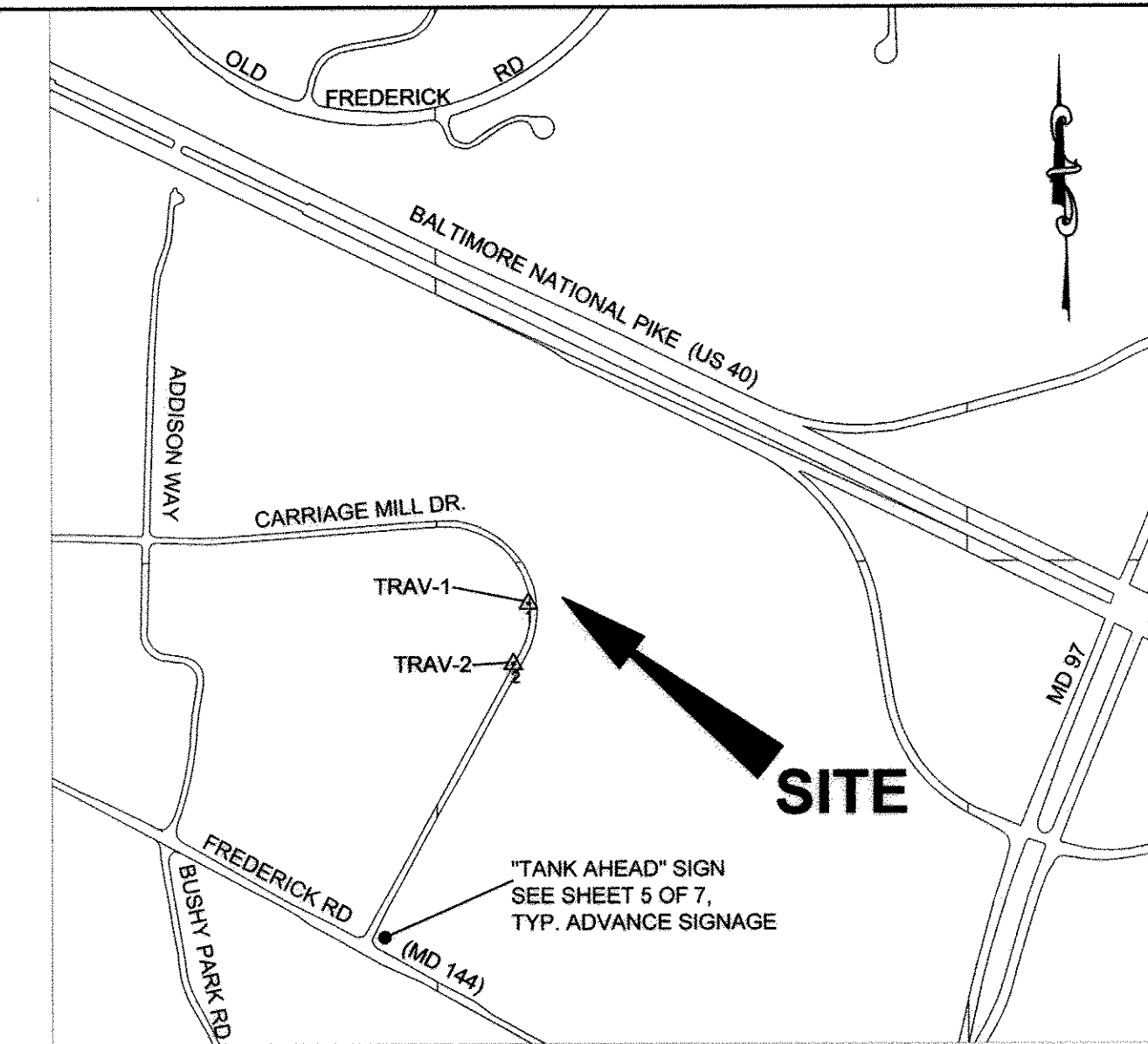


**STAKEOUT TABLE**

DESC	NORTHING	EASTING	ELEV
TRAV 1	604600.43	1305547.70	620.98
TRAV 2	604386.08	1305492.73	625.42
BORING B-05	604601.73	1305606.20	620.82
BORING B-06	604603.75	1305634.13	619.79
NW CORNER ASPHALT PULLOFF	604645.36	1305565.07	621.25
NE CORNER ASPHALT PULLOFF	604628.16	1305589.39	621.00
SW CORNER ASPHALT PULLOFF	604553.22	1305573.15	622.00
SE CORNER ASPHALT PULLOFF	604573.33	1305593.73	621.80
NW CORNER CONCRETE SLAB	604605.24	1305599.35	621.64
NE CORNER CONCRETE SLAB	604606.69	1305619.30	621.64
SW CORNER CONCRETE SLAB	604597.26	1305599.93	621.64
SE CORNER CONCRETE SLAB	604598.71	1305619.87	621.64
CENTER OF TANK MANWAY	604601.90	1305608.61	621.64
NORTH END RCP STORM DRAIN	604640.38	1305573.32	619.72
SOUTH END RCP STORM DRAIN	604557.34	1305579.58	620.60
STORM DRAIN INLET	604620.72	1305577.91	621.20



**PROFILE A-A**  
SCALE: HORIZ - 1" = 5'-0"  
VERT. - 1" = 5'-0"



**SITE LOCATION MAP**  
SCALE: 1" = 600'

ADC MAP REFERENCE: HOWARD COUNTY MAP 4692 GRID G8

**QUANTITIES**

ITEM	UNIT	ESTIMATE	AS-BUILT	MANUFACTURER
MOBILIZATION / DEMOBILIZATION	LS	1	1	TANK DIRECT
30,000 GALLON END DRAFT WATER STORAGE TANK, COMPLETE IN PLACE, WITH PIPING CONNECTIONS PER TABLE 1, SHEET 5 OF 7	EA	1	1	XERXES COMPANY
ASPHALT PAVING (FULL DEPTH)	SF	1470	1470	A.G. PARROTT/H.T.I. CONTRACTORS
ASPHALT PAVING (MILL AND OVERLAY)	SF	185	185	A.G. PARROTT/H.T.I. CONTRACTORS
CONCRETE SLAB	SF	160	160	JMV CONCRETE
CLEARING AND GRUBBING	LS	1	1	TANK DIRECT
SIGN, SITE IDENTIFICATION	EA	2	2	NA.
SIGN, ADVANCE	EA	1	1	NA.
SILT FENCE	LF	280	280	SMC ENVIRONMENTAL
SITE RESTORATION	SF	7266	7266	H.T.I. CONTRACTORS
12" REINFORCED CONCRETE PIPE	LF	80	80	CONCRETE PIPE & PRECAST
PRECAST STORMDRAIN INLET, COMPLETE IN PLACE, WITH FRAME AND INLET GRATE PER STANDARD DETAIL D-4.22	EA	1	1	GILLESPIE PRECAST
CONCRETE END SECTION, COMPLETE IN PLACE PER STANDARD DETAIL D-5.51	EA	2	2	CONCRETE PIPE & PRECAST
TRAFFIC CONTROL	LS	1	1	TANK DIRECT
NAME OF UTILITY CONTRACTOR:	H.T.I. CONTRACTORS			

**SITE ANALYSIS:**

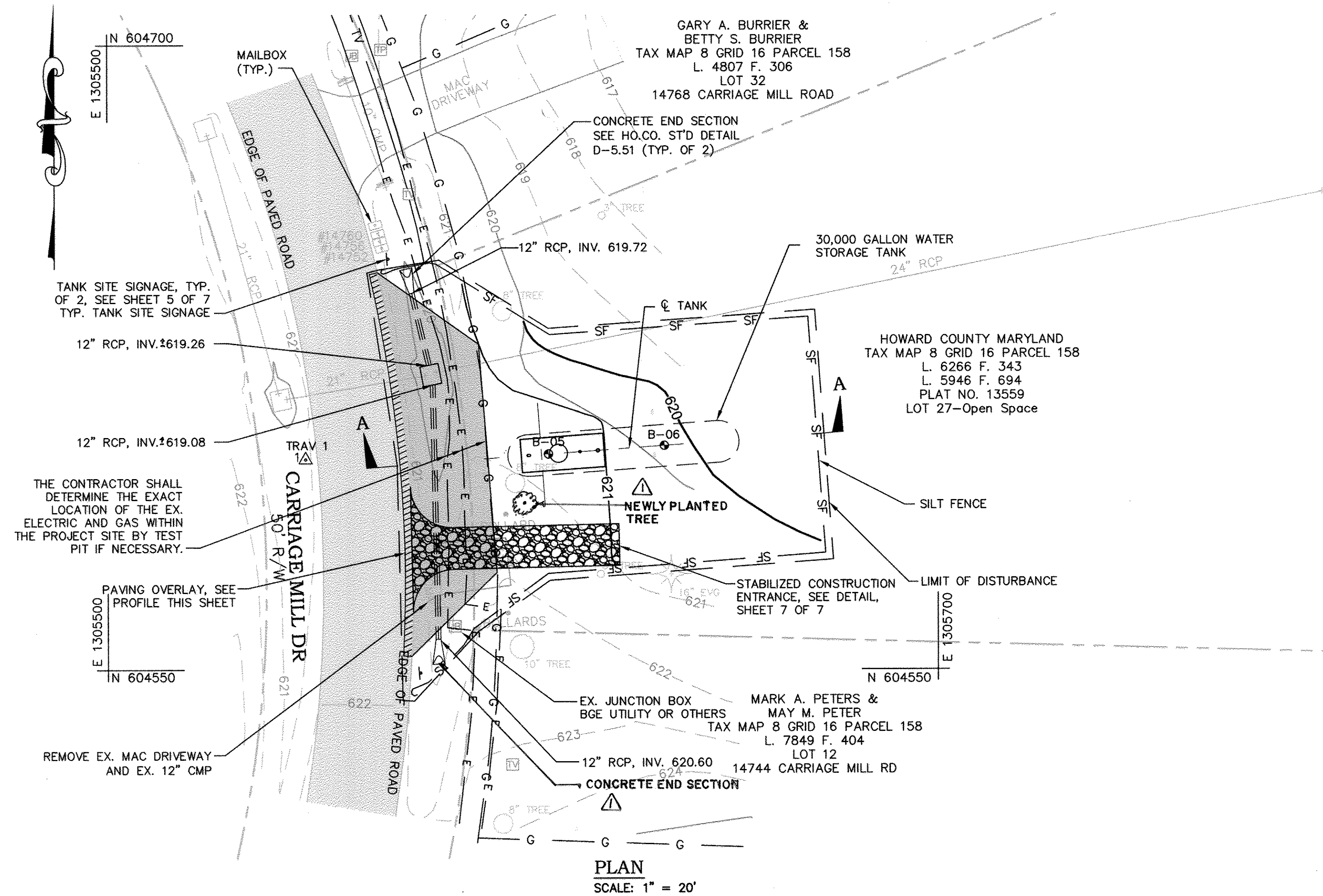
TOTAL AREA OF SITE	0.166	ACRES
AREA DISTURBED	0.166	ACRES
AREA TO BE ROOFED OR PAVED	0.037	ACRES
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TOTAL CUT	451	CU. YDS.
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**PLAN**  
SCALE: 1" = 20'

PROFESSIONAL CERTIFICATION. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 31363, Expiration Date 01/16/2014.

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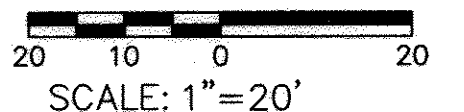
	NORTHING	EASTING	ELEV
08HC	603767.21	1304300.38	645.82
08HA	604769.63	1302045.26	620.99

NAD 1983/91 (HORIZONTAL) NAVD 88 (VERTICAL) DATUM

**NOTES:**

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- USE MD 104.01-71 FOR CRASH CUSHION DETAIL. USE 30mph AS DESIGN SPEED.
- ROAD WORK 1500FT. SIGN CAN BE ELIMINATED WHEN THE LENGTH OF ROAD IS LESS THAN 1500FT.
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**GRAPHIC SCALE**



**AS-BUILT**  
DATE 5/17/2013

KCI TECHNOLOGIES PROJECT NO.: 01-07137823

Dec 20, 2011 - 11:35am User: lewin.jackson M:\2007\0107137823\Drawings\PT70 CARRIAGE MILL DRIVE.dwg

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*[Signature]* 12/21/11  
DIRECTOR OF PUBLIC WORKS DATE

*[Signature]* 12/21/11  
ACT. CHIEF, BUREAU OF ENGINEERING DATE

*[Signature]* 12/21/11  
CHIEF, BUREAU OF UTILITIES DATE

*[Signature]* 12/21/11  
ACT. CHIEF, UTILITY DESIGN DIVISION DATE

**KCI TECHNOLOGIES**

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Sparks, MD 21152  
Phone: (410) 316-7800  
Fax: (410) 316-7817  
www.kci.com

STATE OF MARYLAND  
GUYA WALKER  
PROFESSIONAL ENGINEER  
NO. 81363  
2/19/11

DES:	EDK		
DRN:	EDK		
CHK:	GW		
DATE:	12/2011		
BY:			
NO.			
REVISION			
DATE			

LFN	AS BUILT	5-17-13
BY		
NO.		
REVISION		
DATE		

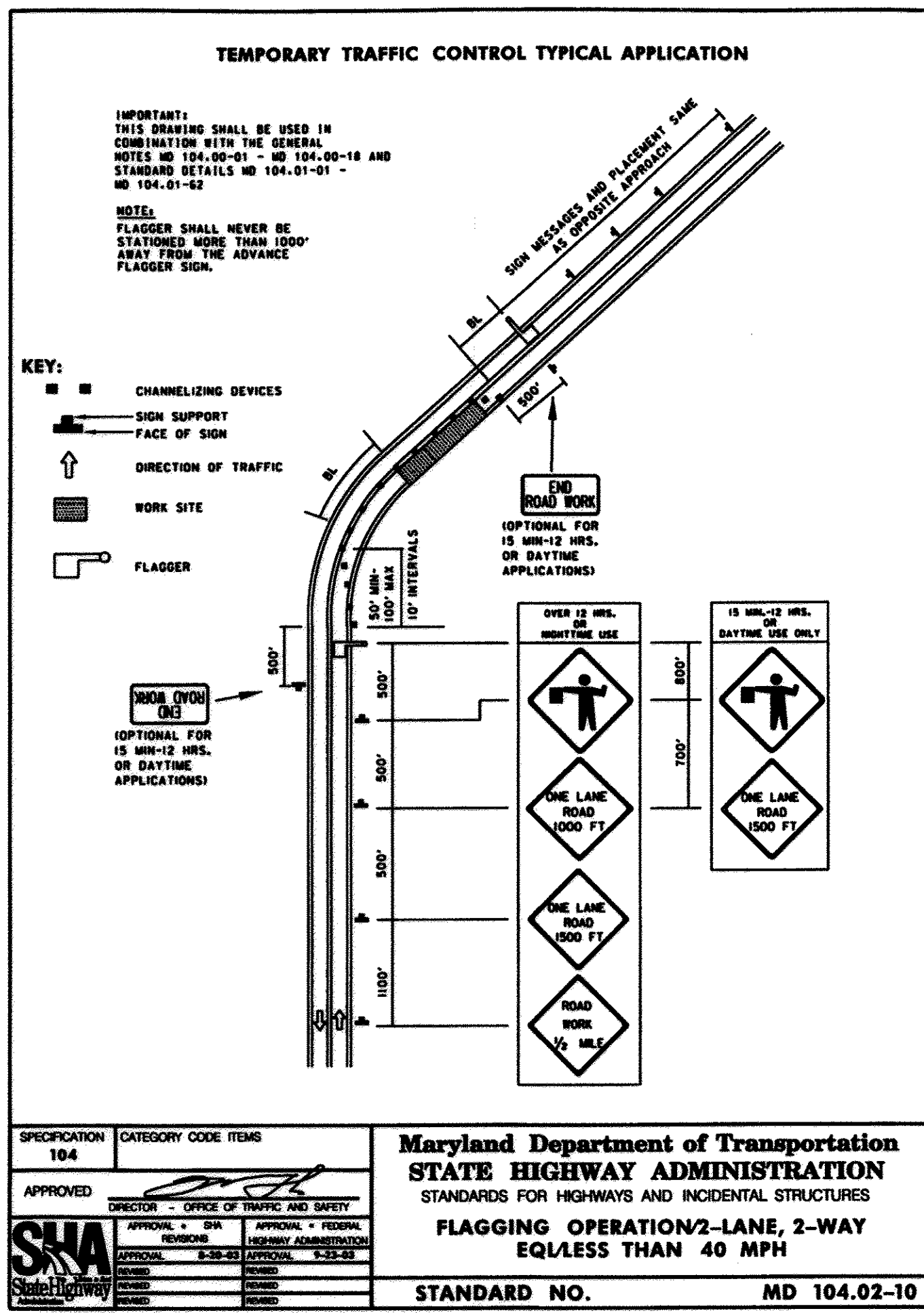
**UNDERGROUND WATER STORAGE TANKS FOR FIRE SUPPRESSION**

CAPITAL PROJECT No. F-5972  
CONTRACT No. 65-4733

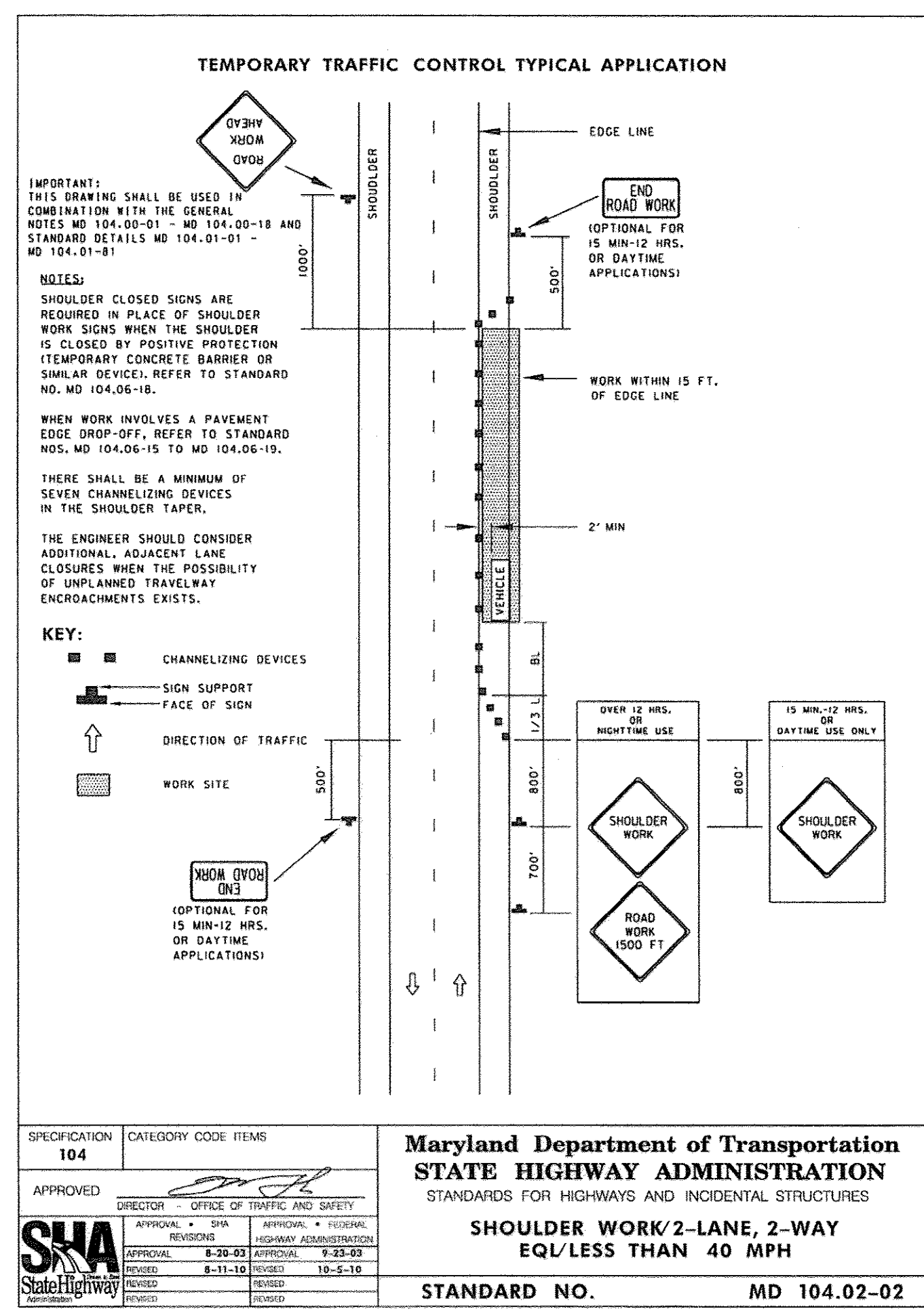
ELECTION DISTRICT NO. 4 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET RT70

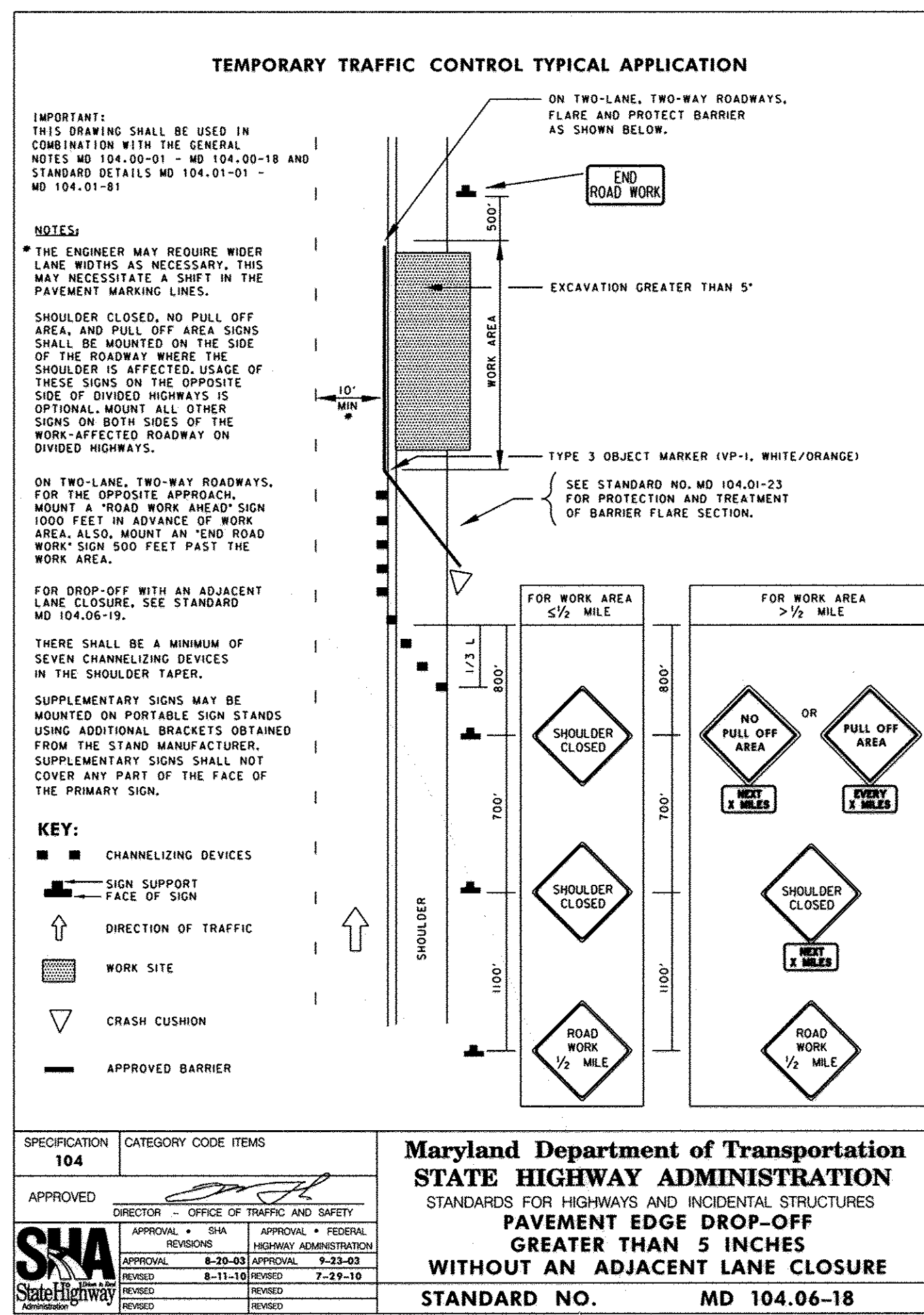




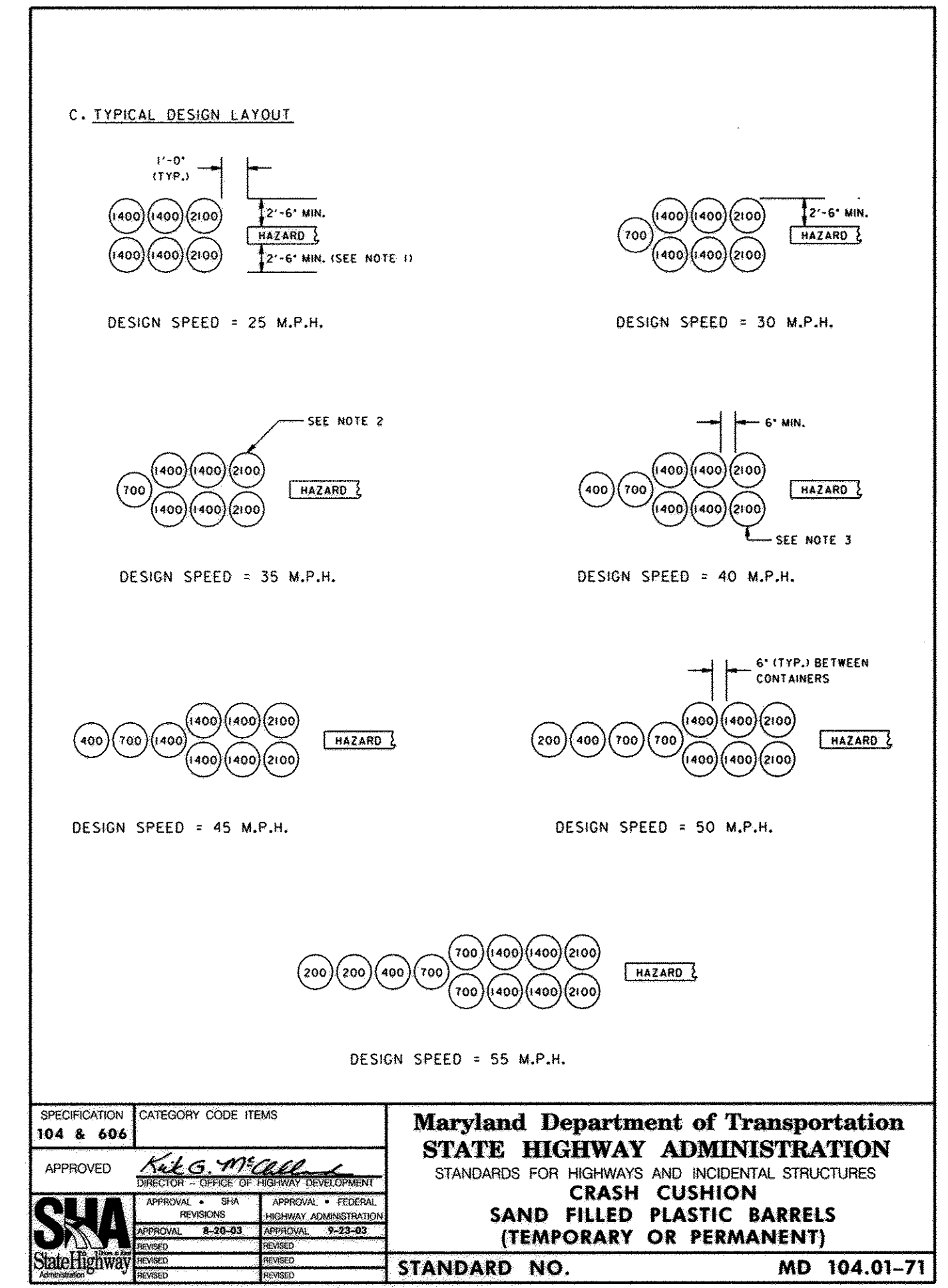
TO BE USED ON ALL WORK SITES AS NECESSARY



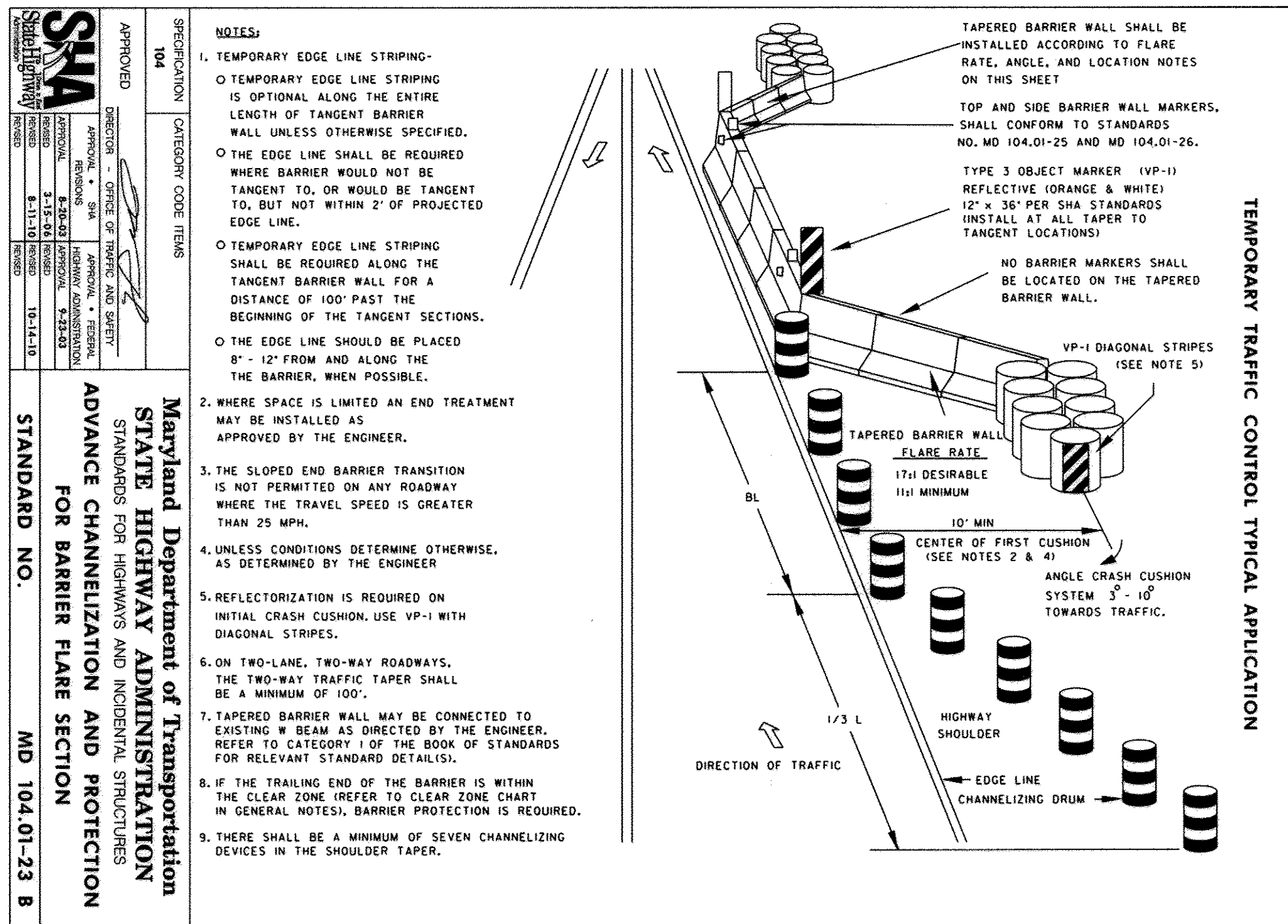
TO BE USED ON ALL WORK SITES AS NECESSARY



TO BE USED ON ALL WORK SITES AS NECESSARY



TO BE USED ON ALL WORK SITES



TO BE USED ON ALL WORK SITES

PROFESSIONAL CERTIFICATION. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 31363, Expiration Date 01/16/2014.

**NOTE:**

- THE CONTRACTOR SHALL SUBMIT MAINTENANCE OF TRAFFIC PLANS FOR EACH LOCATION FOR COUNTY APPROVAL BEFORE WORK BEGINS.

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

12/21/11  
DIRECTOR OF PUBLIC WORKS DATE

12/21/11  
ACT. CHIEF, BUREAU OF ENGINEERING DATE

12/21/11  
CHIEF, BUREAU OF UTILITIES DATE

12/21/11  
ACT. CHIEF, UTILITY DESIGN DIVISION DATE

ENGINEERS  
PLANNERS  
SCIENTISTS  
CONSTRUCTION MANAGERS

KCI TECHNOLOGIES

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Fax: (410) 316-7817  
www.kci.com

STATE OF MARYLAND  
GUTHRIE WALKER  
PROFESSIONAL ENGINEER  
NO. 31363  
12/19/11

DES:	EDK				
DRN:	KFJ				
CHK:	GW				
DATE:	12/20/11	BY	NO.	REVISION	

DATE	600' SCALE MAP NO.	VARIABLES	BLOCK NO.	VARIABLES
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**UNDERGROUND WATER STORAGE TANKS FOR FIRE SUPPRESSION**

CAPITAL PROJECT No. F-5972  
CONTRACT No. 65-4733

ELECTION DISTRICT NO. VARIES HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET TD-1