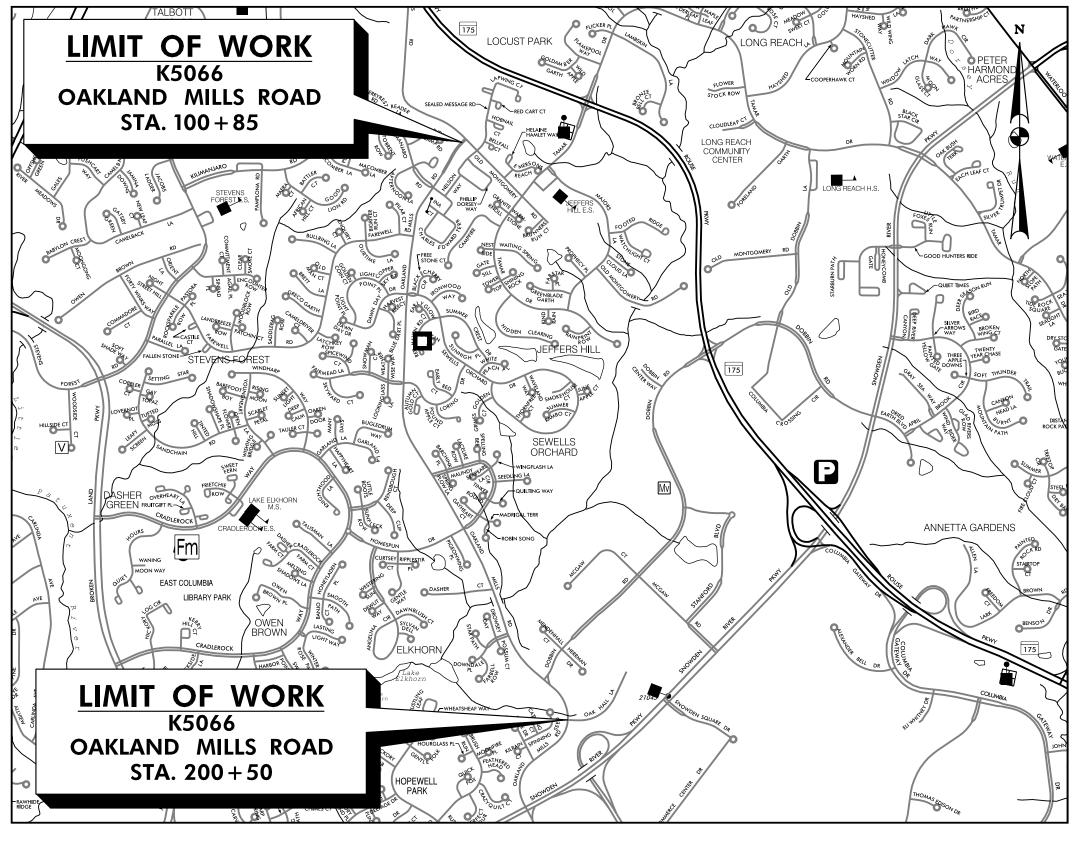
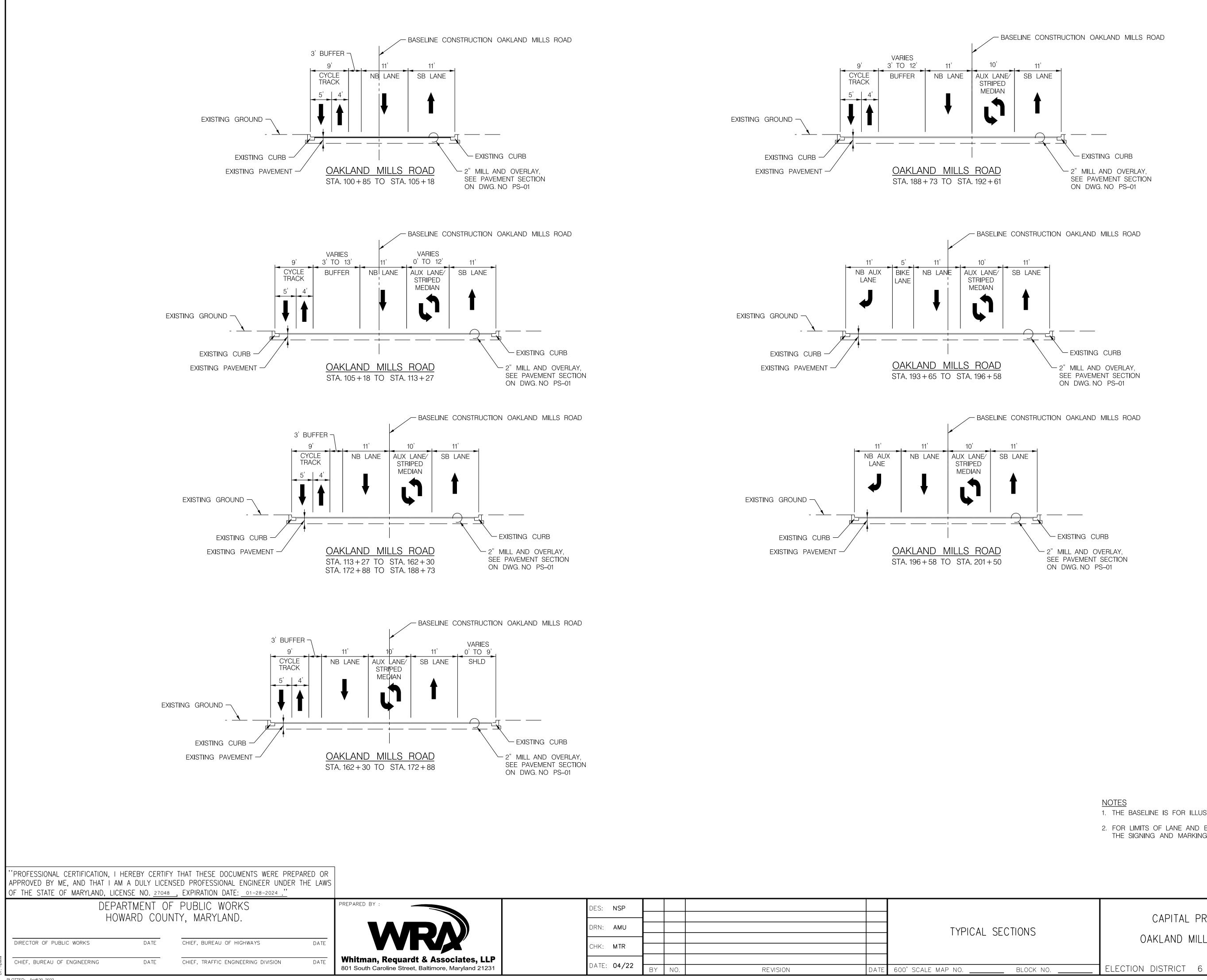
OAKLAND MILLS COMPLETE STREETS P	ROJECT
CAPITAL PROJECT CONTRACT NO. K5066 HOWARD COUNTY, MARYLAND	<u>GENERAL NOTES</u> 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION (MDOT-SHA) STANDARDS AND SPECIFICATIONS IF APPLICABLE.
DEPARTMENT OF PUBLIC WORKS	 THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313–1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1–800–257–7777 AT LEAST THREE (3) DAYS PRIOR TO ANY EXCAVATION WORK BEING DONE. THE CONTRACTOR SHALL CONTACT THE FOLLOWING UTILITIES AT LEAST 5 DAYS PRIOR TO BEGINNING ANY WORK UNDER THIS CONTRACT. FOR ADDITIONAL INFORMATION AND REQUIREMENTS WITH RESPECT TO UTILITIES, SEE SPECIAL PROVISIONS.
	 BUREAU OF UTILITIES, HOWARD COUNTY, 410–313–4900 BGE EAS DIVISION (410) 221–5934 BGE LECTRIC ONISION (410, 721–5934 BGE LECTRIC ONISION (410, 721–5934 COMKAST FIBER, 410–427–9600 TRAFFIC CONTROL DEVICES: A) THE TRAFFIC CONTROL DEVICE LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MOST BE FIED APPROVED BY HOWARD COUNT TRAFFIC DIVISION (410–313–2430) PRIOR TO INSTALLATION OF ANY OF THE TRAFFIC CONTROL DEVICES. B) ALL TRAFFIC CONTROL DEVICES AND THEIR LOCATIONS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MAMUTCD). c) ALL STAFFIC CONTROL DEVICES AND THEIR LOCATIONS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MAMUTCD). c) ALL SIGN POSTS USED FOR TRAFFIC CONTROL SIGNS INSTALLED IN THE CONTY RIGHT-OF-WAY SHALL BE MOUNTED ON A 2" GALVANIZED STEEL PREPORATED WORE THAN TWO "QUICK PUNCH" HOLES ABOVE COUND LEVEL, A CALVANIZED STEEL POLE CAP SHALL BE MOUNTED ON A 2" GALVANIZED STEEL PREPORATED STEEL POLE CAP SHALL BE MOUNTED ON 10P OF EACH POST. 5. THE EXISTING UTILITIES SHOWN HEREON ARE LOCATED FROM THE BEST INFORMATION AVAILABLE, BUT NO GUIARANTE IS MADE TO THEIR ACCURACY. THE APPROXIMATE LOCATION OF EXISTING UTILITIES SHOWN HEREON ARE LOCATED FROM THE BEST INFORMATION AVAILABLE, BUT NO GUIARANTE IS MADE TO THEIR ACCURACY. THE APPROXIMATE LOCATION OF EXISTING UTILITIES SHOWN HEREON ARE LOCATED FROM THE BEST INFORMATION AVAILABLE, BUT NO GUIARANTE IS SHOWN HEREON AND WELL IN ADVWACE OF ANY CONSTRUCTION ACTIVITIES. ADDIMONALY, THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. 6. NO TRAFFIC STUDY IS REQUIRED FOR THIS PROJECT. 7. THE CONTRACTOR SHALL TAKE EXTREME CAUTION NOT TO DISTURB THE EXISTING WEETATION OUTSIDE THE LIMITS OF CONSTRUCTION. MARTINA DASCOLATION TO SOL CONSTRUCTION AND WEED STILL CONTRACTOR SHALL FLAKE E
OWNERS/DEVELOPER CERTIFY THAT ANY CLEARING ORADING, CONSTRUCTION, OF DEVELOPMENT WILL ARRIVE CONTROL, PLAN, INCLUDING INSPECTING, AND BEROSON AND SEDUENT CONTROL, PLAN, INCLUDING INSPECTING, AND MAINTAINE, CONTROLS, AND THAT INE PERSONNELL PROVIDE AND THE CONTROL, PLAN, INCLUDING INSPECTING, AND MAINTAINE, CONTROLS, AND THAT CHE RESPOnsible. THE ENDING ON THE CONTROL ON ERSIONAL AND SEDUENT OF THE CONTROL ON ERSION AND SEDUENT FROM TO ELECANING INFERENCE COUNTY, THE HOWARD SOUL CONSERVATION DISTICT AND/OR MDE. OWNERS/DEVELOPER'S SOULTIEE INH: THE TO NAME & THLE "PROFESSIONAL CERTIFICATION, I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AN A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 24397EXPIRATION DATE: 31-501-4204	dwg. TI O 1
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND. DIRECTOR OF PUBLIC WORKS DIRECTOR OF PUBLIC WORKS DIRECTOR OF PUBLIC WORKS DIRECTOR OF PUBLIC WORKS CHIEF, BUREAU OF HIGHWAYS DATE CHIEF, BUREAU OF ENGINEERING DATE CHIEF, BUREAU OF ENGINEERING DATE PROTEER June 06, 2002	CAPITAL PROJECT CONTRACT NO. K5066 SCALE NONE OAKLAND MILLS COMPLETE STREETS PROJECT SHEET 1 of 50

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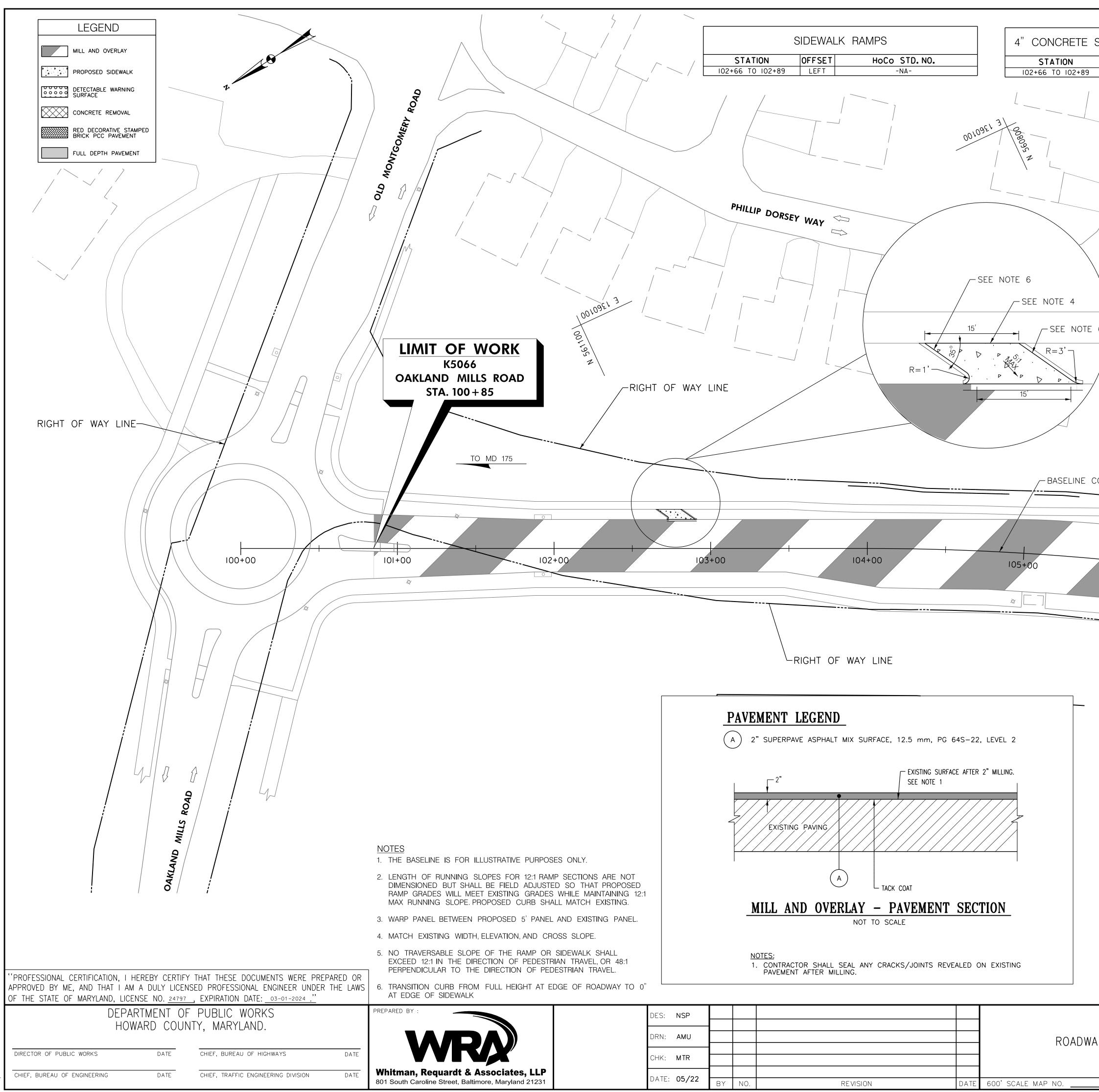
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ates, LLP ryland 21231	DATE: 04/22	ΒY	NO.	REVISION	DATE	600' SCALE MAP NO.

- BASELINE CONSTRUCTION OAKLAND MILLS ROAD

NOTES 1. THE BASELINE IS FOR ILLUSTRATIVE PURPOSES ONLY. 2. FOR LIMITS OF LANE AND BUFFER WIDTH TAPERS REFER TO THE SIGNING AND MARKING PLANS.	
	dwg. TS-01
CAPITAL PROJECT CONTRACT NO. K5066	SCALE 1" = 10'
OAKLAND MILLS COMPLETE STREETS PROJECT	sheet _2_of <u>50</u>

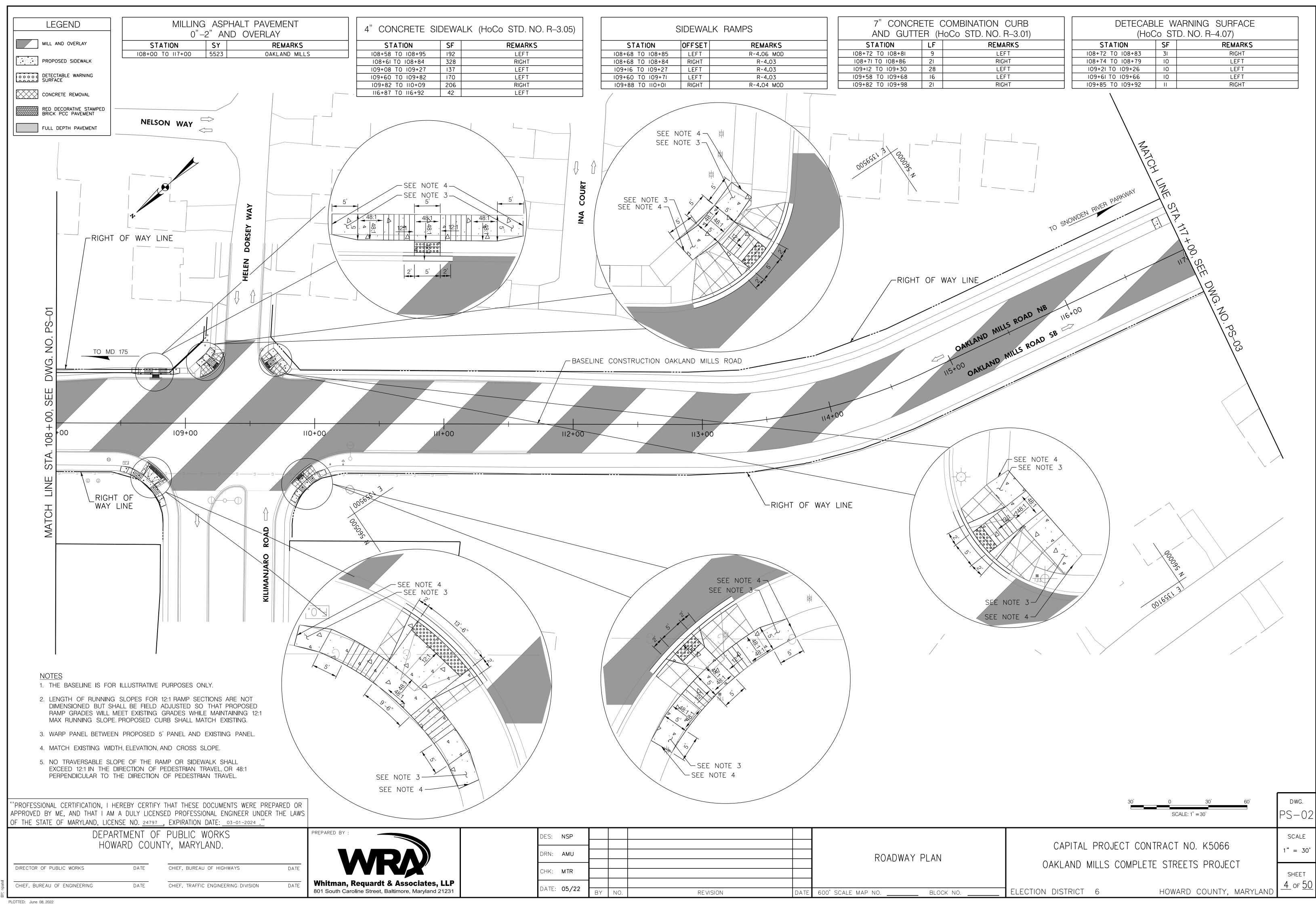
HOWARD COUNTY, MARYLAND



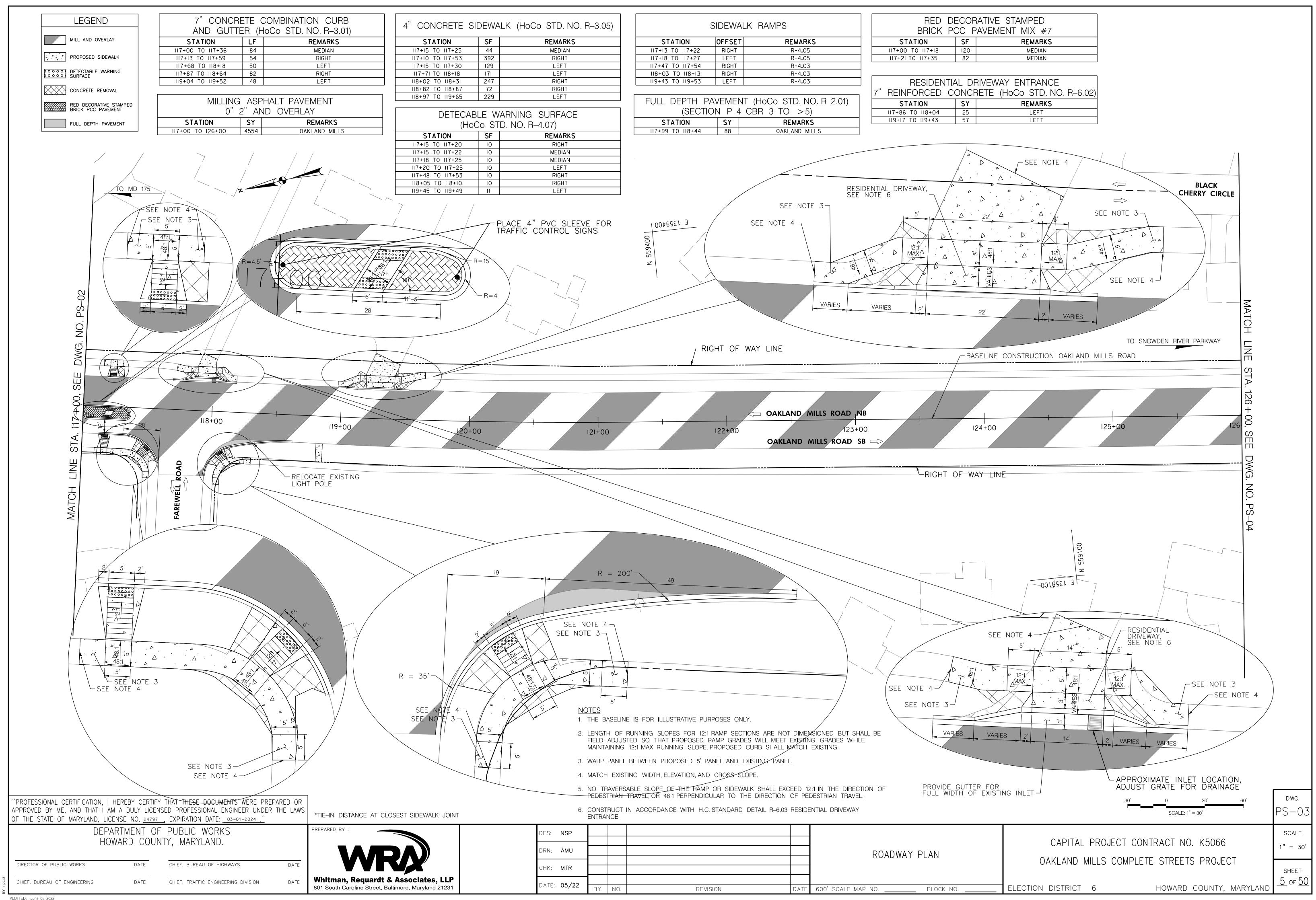
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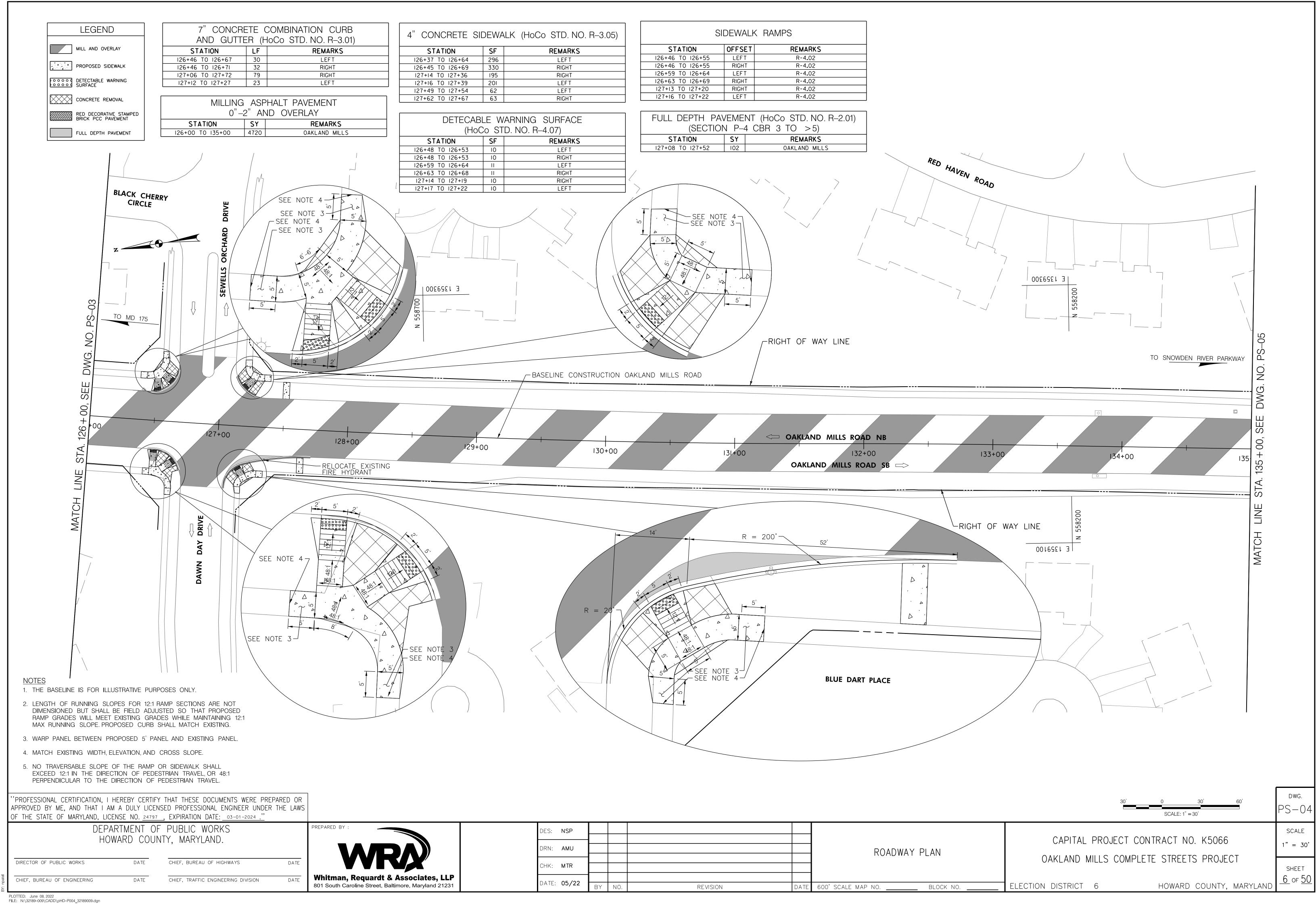
SF REMARKS				IOCO STD. NO. R-3.01)	
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				CRETE CURB	
		STATION	LF	D. NO. R–3.01)	
		2+64 TO 106+74 20+81 TO 102+90	8	LEFT LEFT	
NELSON WAY				PHALT PAVEMENT	
	10	STATION 0+85 TO 108+00	SY 3309	REMARKS OAKLAND MILLS	
7					
106+00	MILLS ROAD NB	<u>↓</u>	WDEN F	RIVER PARKWAY	
	00965			MATCH LINE STA. 108 + 00, SEE	
AY PLAN		SCALE: 1" PROJECT CONT	IRACT E STR	^{60'} NO. K5066 EETS PROJECT ARD COUNTY, MARYLAND	DWG. PS-01 SCALE 1" = 30' SHEET <u>3</u> OF <u>50</u>



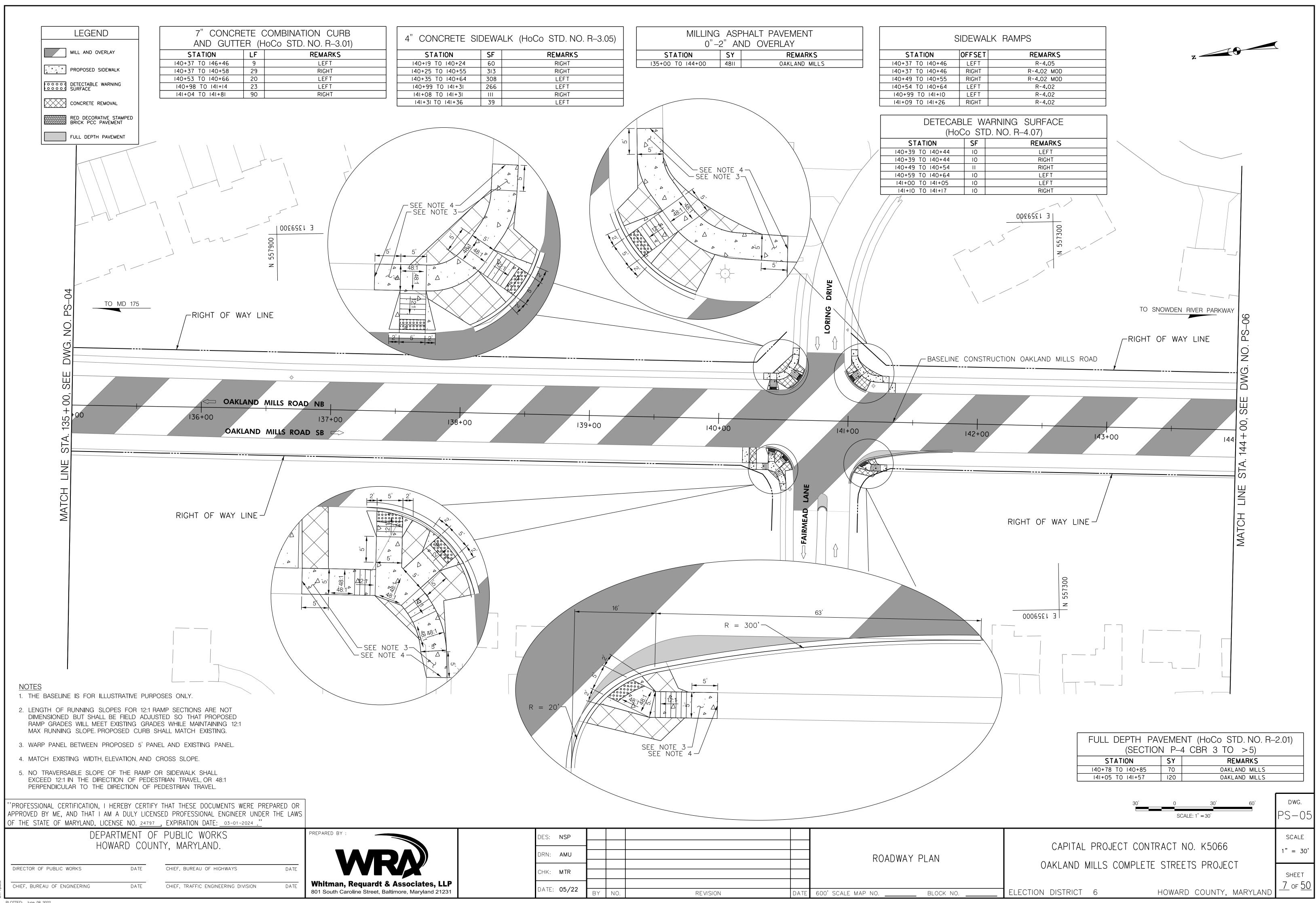
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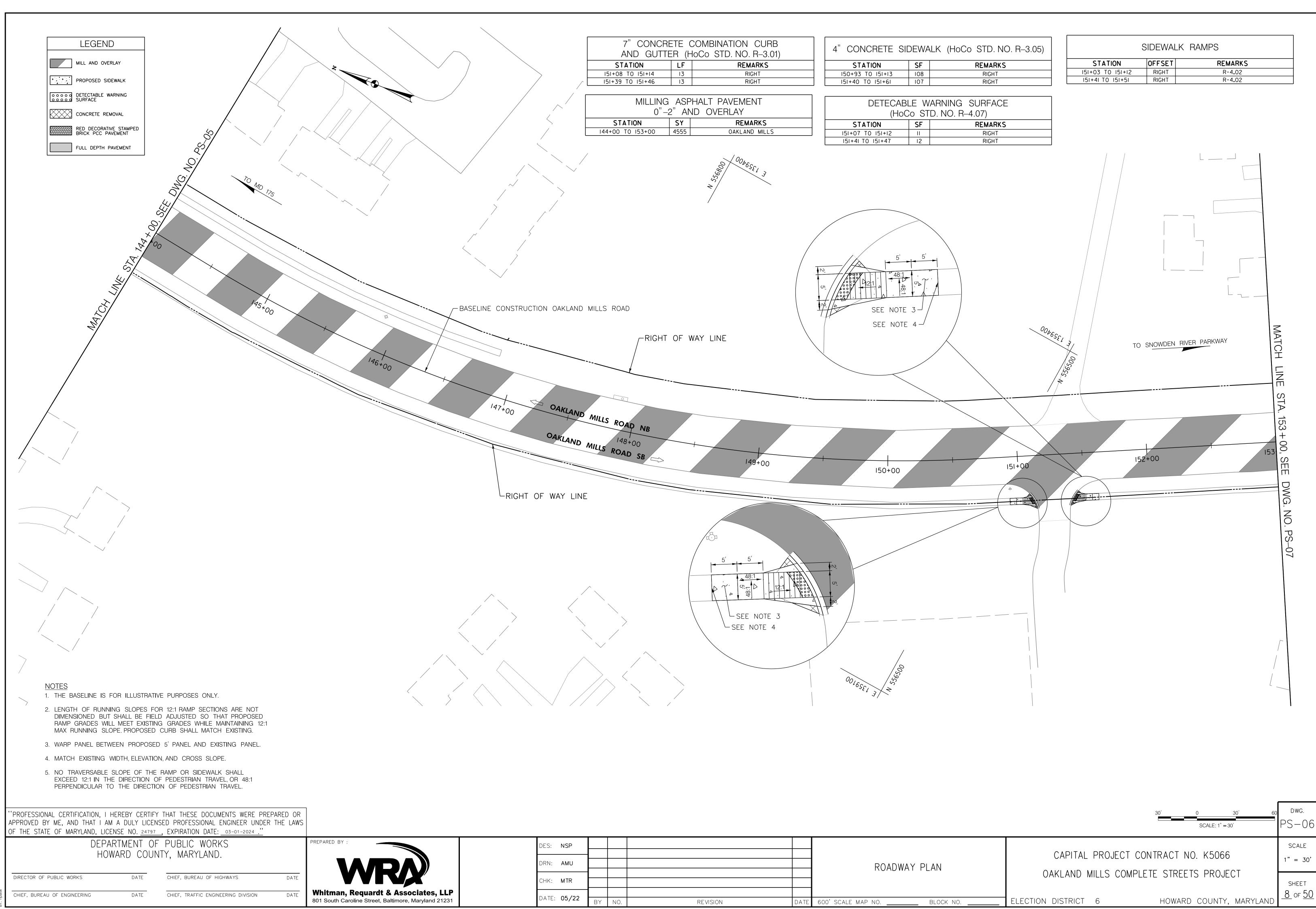
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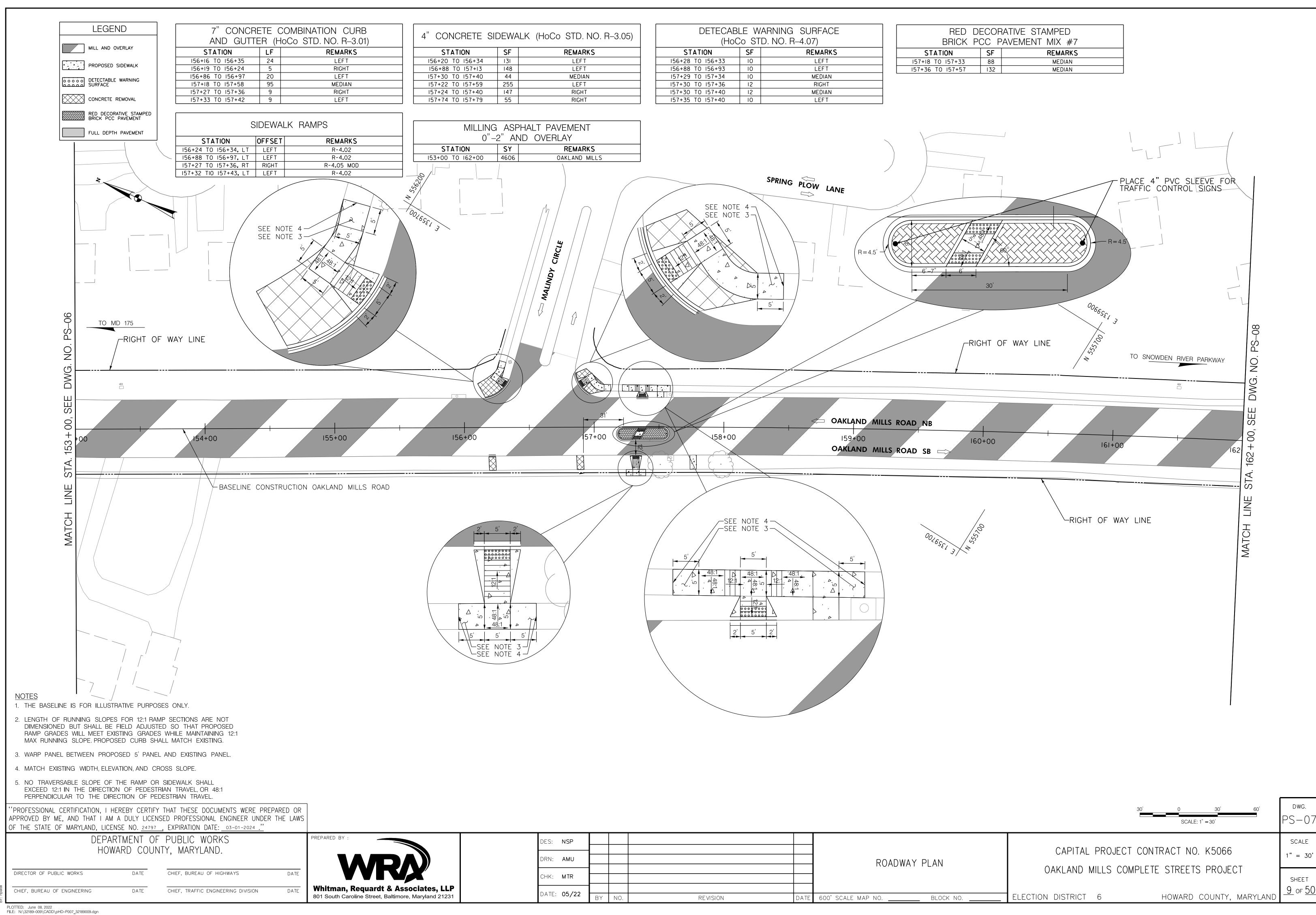


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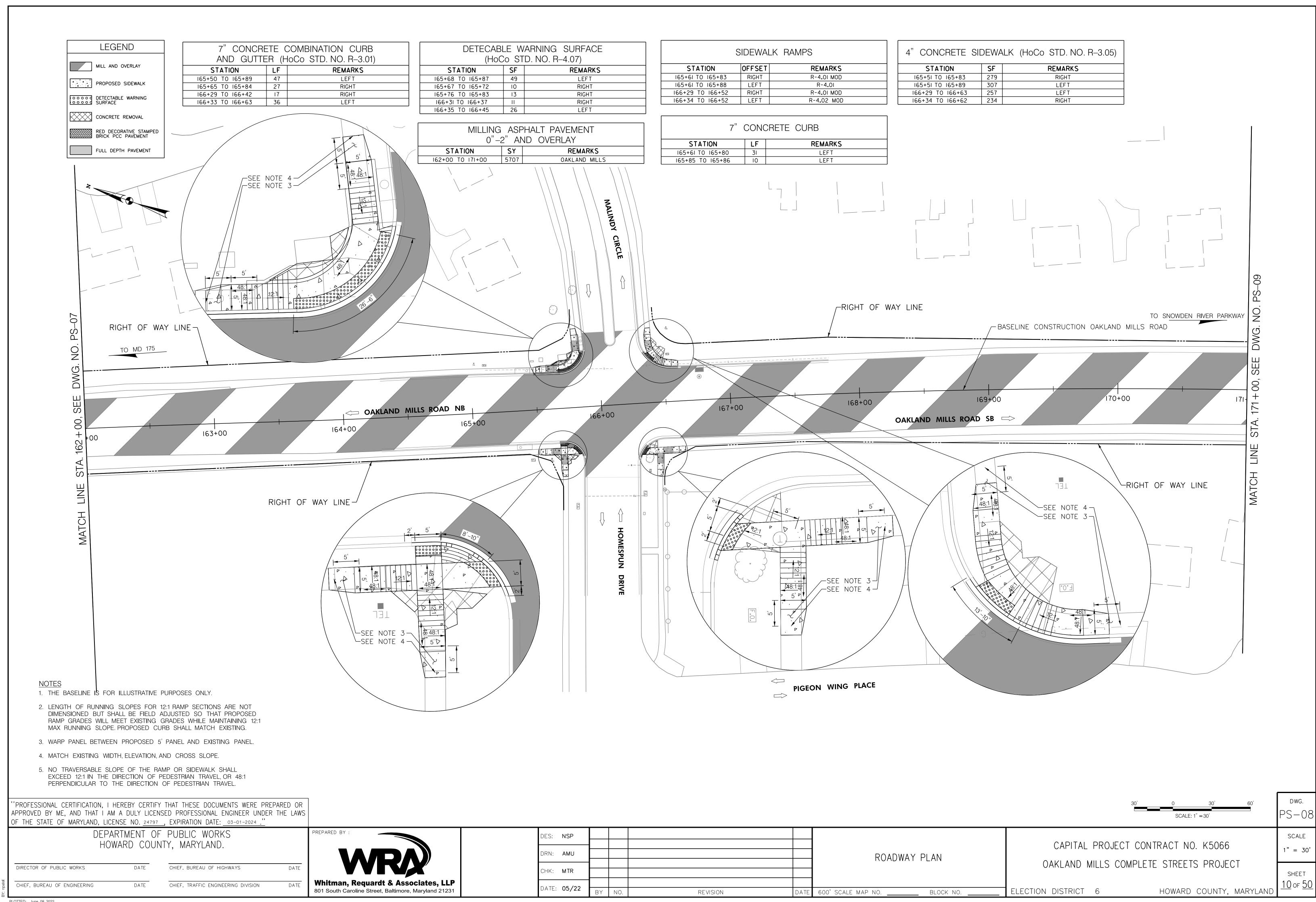


4" CONCRETE SI	DEWA	LK (HoCo STD. NO. R-3.05)
STATION	SF	REMARKS
156+20 TO 156+34	131	LEFT
156+88 TO 157+13	148	LEFT
153 30 30 153 40		

		ARNING SURFACE D. NO. R-4.07)
STATION	SF	REMARKS
156+28 TO 156+33	10	LEFT
156+88 TO 156+93	10	LEFT
157+29 TO 157+34	10	MEDIAN
157+30 TO 157+36	12	RIGHT
157+30 TO 157+40	12	MEDIAN
157+35 TO 157+40	10	LEFT

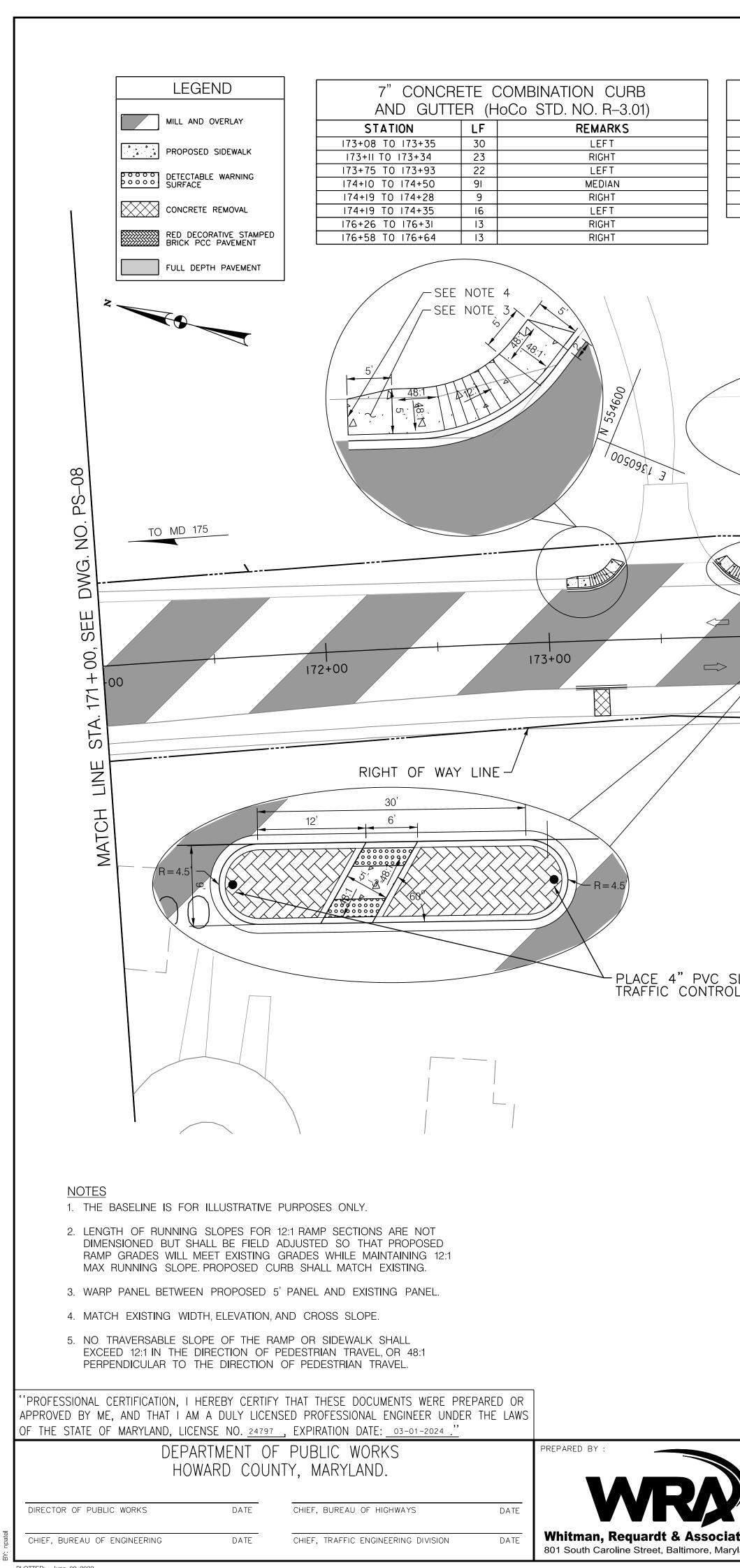
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es, LLP						
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RED DI	ECOF	ATIVE STAMPED
BRICK P	CC F	PAVEMENT MIX #7
STATION	SF	REMARKS
157+18 TO 157+33	88	MEDIAN
157+36 TO 157+57	132	MEDIAN



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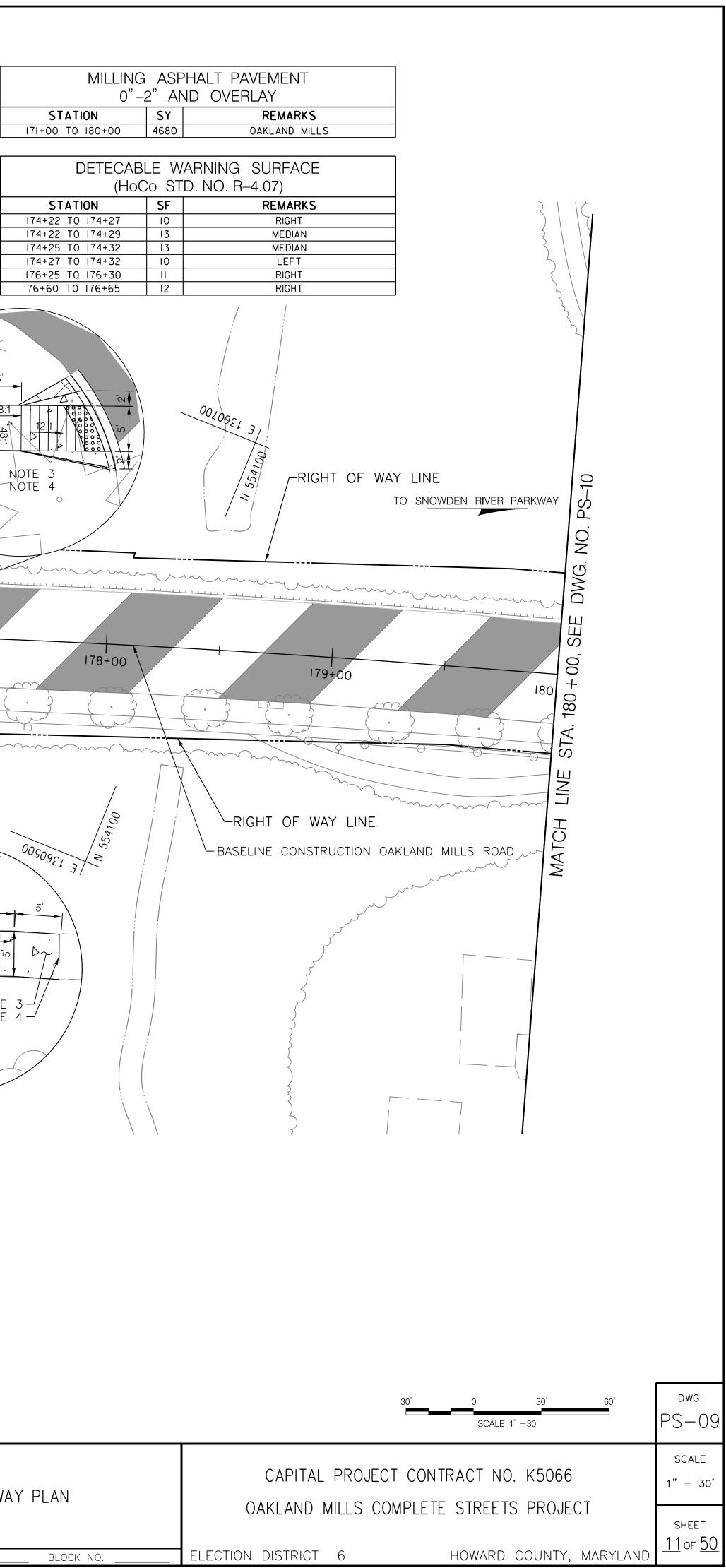
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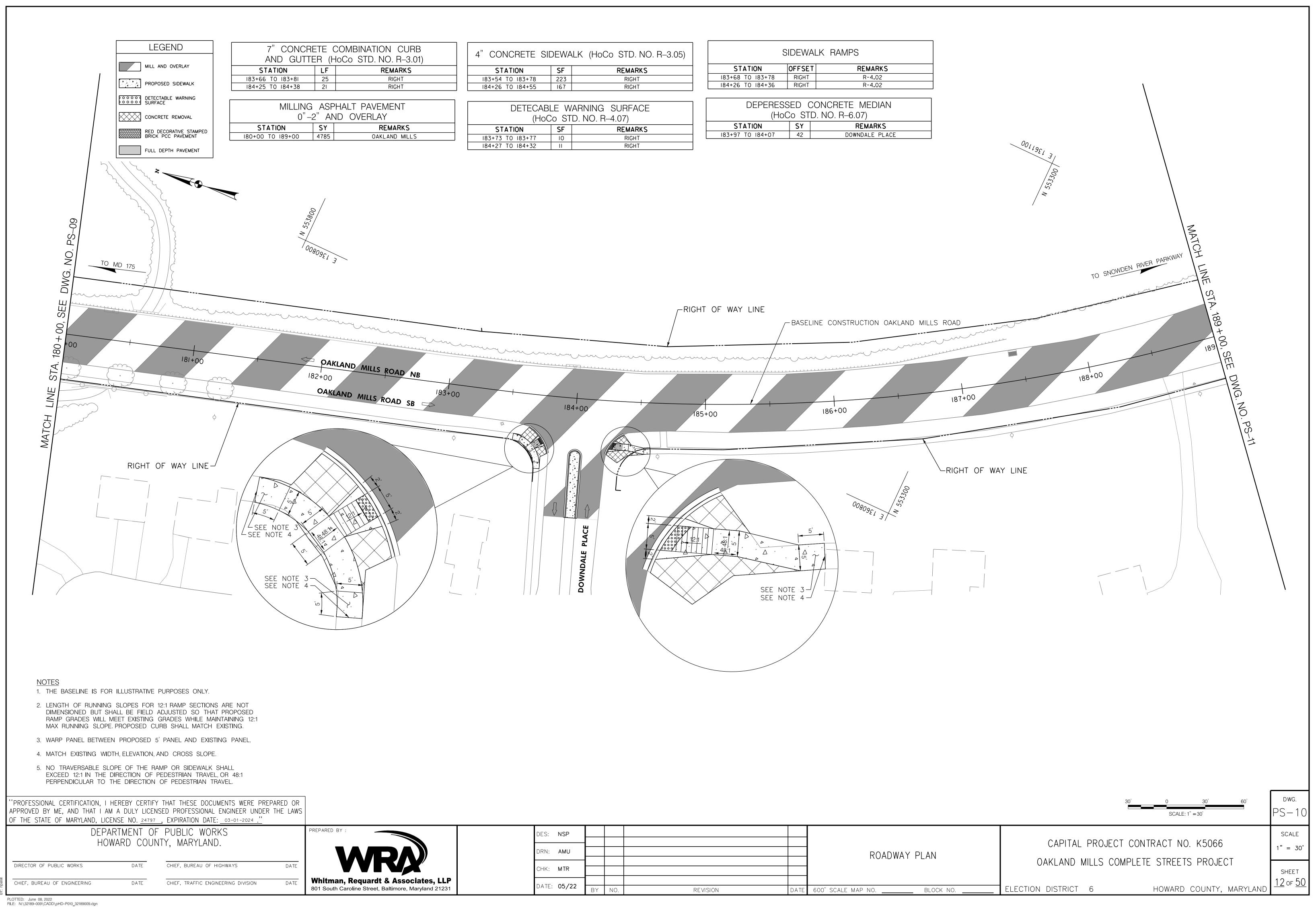


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" CONCRETE S	SIDEWALK (I	HoCo STD. NO. R-3.0	05)		SIDEWAL	K RAMP	S	
STATION	SF	REMARKS	ł	STATION	OFFSET		REMARKS	
173+09 TO 173+34	129	LEFT		173+19 TO 173+34	LEFT		R-4.04	
173+75 TO 174+34	293	LEFT		173+75 TO 173+89			R-4.04	
174+21 TO 174+31	44	MEDIAN		174+19 TO 174+28	LEFT		R-4.04	
174+17 TO 174+32	158	RIGHT		174+19 TO 174+35	RIGHT		R-4.05 R-4.02	
176+10 TO 176+30	105	RIGHT		176+20 TO 176+30 176+60 TO 176+70			R-4.02 R-4.02	
76+59 TO 176+80	107	RIGHT	L				N 7.02	
					DECORA			
			-	STATION	SF		REMARKS	
			-	174+10 TO 174+25			MEDIAN	
			ŀ	174+28 TO 174+49			MEDIAN	
	5.				5'			5'
			· D					
	m mm	~						
	OAKLAND	MILLS ROAD NB						
22'		MILLS ROAD NB 175+00 MILLS ROAD SB		176+00			177+00	
		75+00		176+00			I77+00	
22 [']		175+00 MILLS ROAD SB					2	
		MILLS ROAD SB			Course		2	
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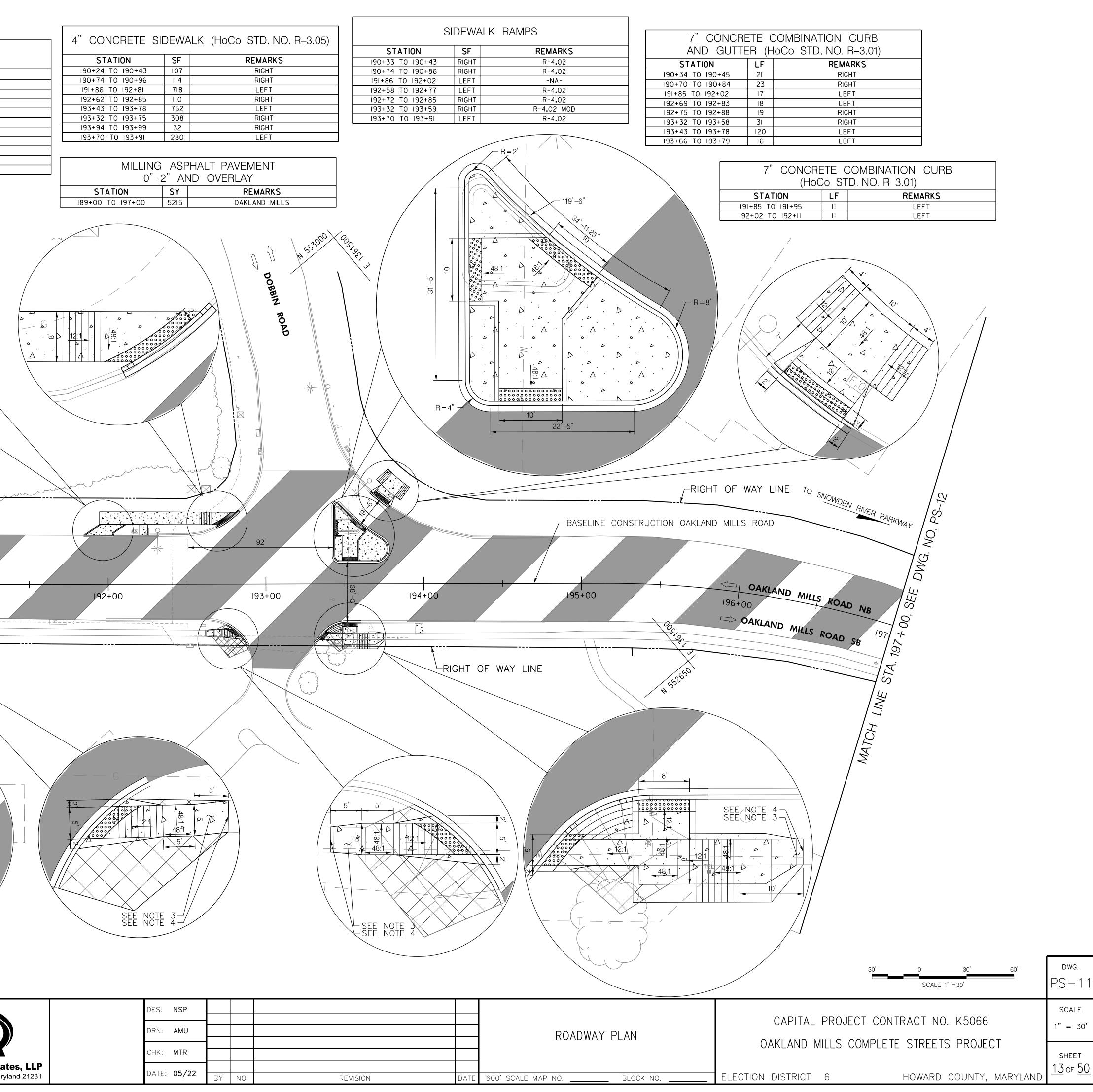


4" CONCRETE S	SIDEWA	LK (HoCo STD. NO. R-3.05)			SIDEWA	LK RAMPS
STATION	SF	REMARKS	-	STATION	OFFSET	REMARK
183+54 TO 183+78	223	RIGHT		183+68 TO 183+78	RIGHT	R-4.02
184+26 TO 184+55	167	RIGHT		184+26 TO 184+36	RIGHT	R-4.02
		ARNING SURFACE D. NO. R–4.07)		(Ho	Co STE	ONCRETE MEDIA D. NO. R-6.07)
STATION	SF	REMARKS		STATION	SY	REMARI
73 TO 183+77	10	RIGHT	-	183+97 TO 184+07	42	DOWNDALE P
		RIGHT	-			

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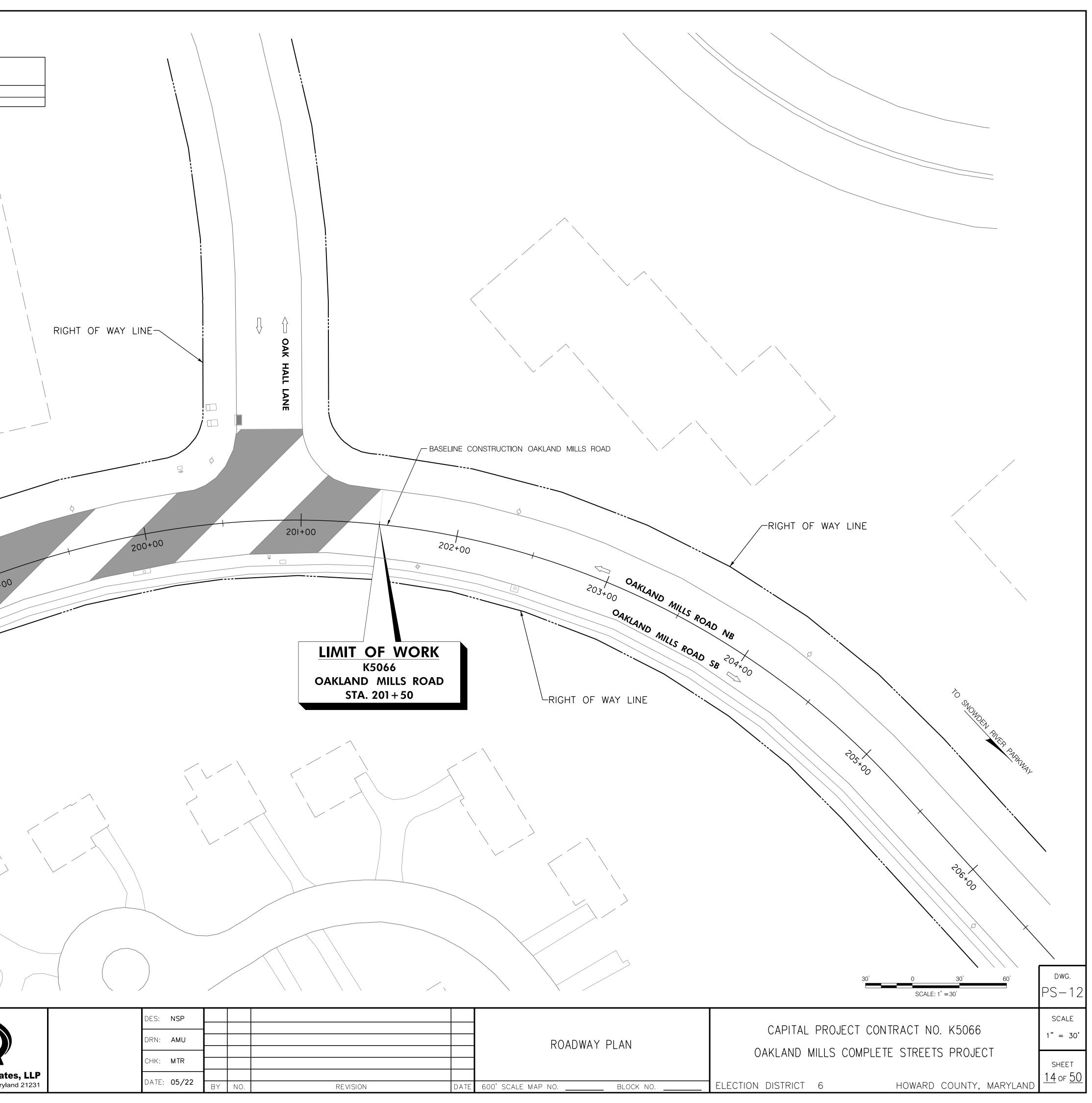
	MILL AND OVERLAY	STATION	SF REMARKS
		190+75 TO 190+83	I5 RIGHT
	SURFACE	193+34 TO 193+41	I4 RIGHT
		193+48 TO 193+58	20 LEFT
		193+53 TO 193+64	22 LEFT
WHO Image: State of the provided	ON 175 500 800 681 00 681 00		RIGHT OF WAY LINE
NOTES 1. THE BASELINE IS FOR ILLUSTRATIVE PURPOSES ONLY. 2. LENGTH OF RUNNING SLOPES FOR 12:1 RAMP SECTIONS ARE NOT DIMENSIONED BUT SHALL BE FIELD ADJUSTED SO THAT PROPOSED RAMP GRADES WILL MEET EXISTING GRADES WHILE MAINTAINING 12:1 MAY RUNNING SLOPE, PROPOSED CURB SHALL MATCH EXISTING. 3. WARP PANEL BETWEEN PROPOSED CURB SHALL MATCH EXISTING. 4. MATCH EXISTING WIDTH, ELEVATION, AND CROSS SLOPE. 5. NO TRAVERSABLE SLOPE OF THE RAMP OR SIDEWALK SHALL EXCEED 12:1 IN THE DIRECTION OF PEDESTRIAN TRAVEL, OR 48:1 PERFENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL, OR 48:1 PERFENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL, OR 48:1 PERFENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL, OR 48:1 PERFENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL, OR 48:1 PERFENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL, OR 48:1 PERFENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL, OR 48:1 PERFENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL, OR 48:1 PERFENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL, OR 48:1 PERFENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL, OR 48:1 PERFENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL, OR 48:1 PERFENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL, OR 48:1 PERFENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL, OR 48:1 PERFENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL, OR 48:1 PERFENDER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE DOLLY EXCENT PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, UCENSE NO. 24747 _ EXPRATION DATE: 03:1:2074 _ THE THE DATE DIRECTION OF PUBLIC WORKS DATE DATE DATE DATE DATE DATE DATE DATE		N 553000	
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APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 24797, EXPIRATION DATE: 03-01-2024." DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND. DIRECTOR OF PUBLIC WORKS DATE CHIEF, BUREAU OF ENGINEERING DATE CHIEF, BUREAU OF ENGINEERING	 THE BASELINE IS FOR ILLUSTRATIVE PURPOSES ONLY. LENGTH OF RUNNING SLOPES FOR 12:1 RAMP SECTIONS ARE DIMENSIONED BUT SHALL BE FIELD ADJUSTED SO THAT PROF RAMP GRADES WILL MEET EXISTING GRADES WHILE MAINTAININ MAX RUNNING SLOPE. PROPOSED CURB SHALL MATCH EXISTIN WARP PANEL BETWEEN PROPOSED 5' PANEL AND EXISTING P/ MATCH EXISTING WIDTH, ELEVATION, AND CROSS SLOPE. NO TRAVERSABLE SLOPE OF THE RAMP OR SIDEWALK SHALL EXCEED 12:1 IN THE DIRECTION OF PEDESTRIAN TRAVEL, OR 4 PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL. TRANSITION CURB FROM FULL HEIGHT AT EDGE OF ROADWAY 	NOT POSED NG 12:1 NG. ANEL. 8:1	
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2 onler, botche of Entonice and Street Paltimore Mar	DIRECTOR OF PUBLIC WORKS DATE CHIEF, BUREAU OF HIGH	NAYS DATE	
	CHIEF, BUREAU OF ENGINEERING DATE CHIEF, TRAFFIC ENGINEER	RING DIVISION DATE	

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	LEGEND		G ASPHALT	
	MILL AND OVERLAY	STATION	–2" AND O\	REMARKS
	PROPOSED SIDEWALK	<u>197+00 TO 201+50</u>	2420	OAKLAND MILLS
	CONCRETE REMOVAL			
	RED DECORATIVE STAMPED BRICK PCC PAVEMENT			
	FULL DEPTH PAVEMENT			
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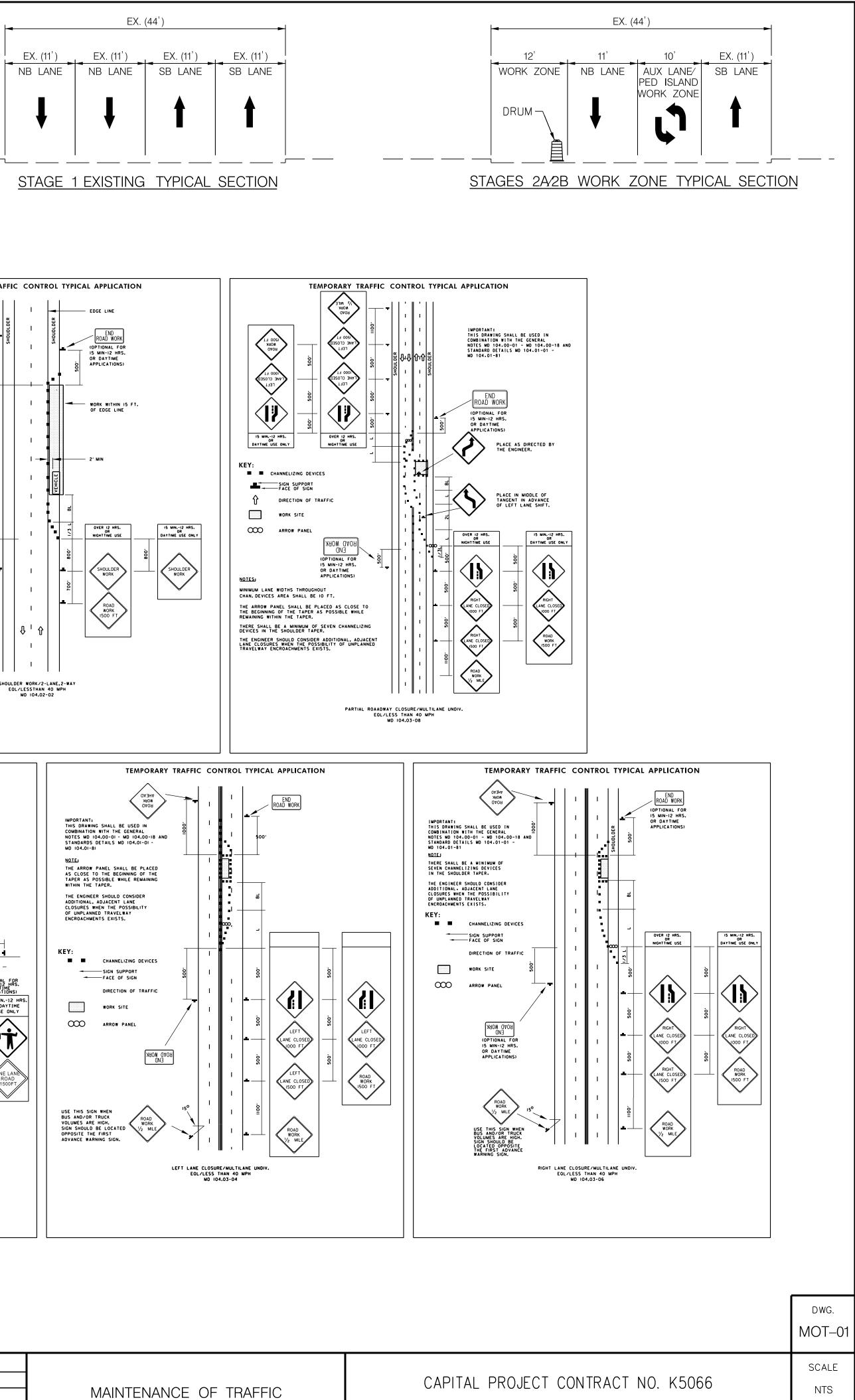
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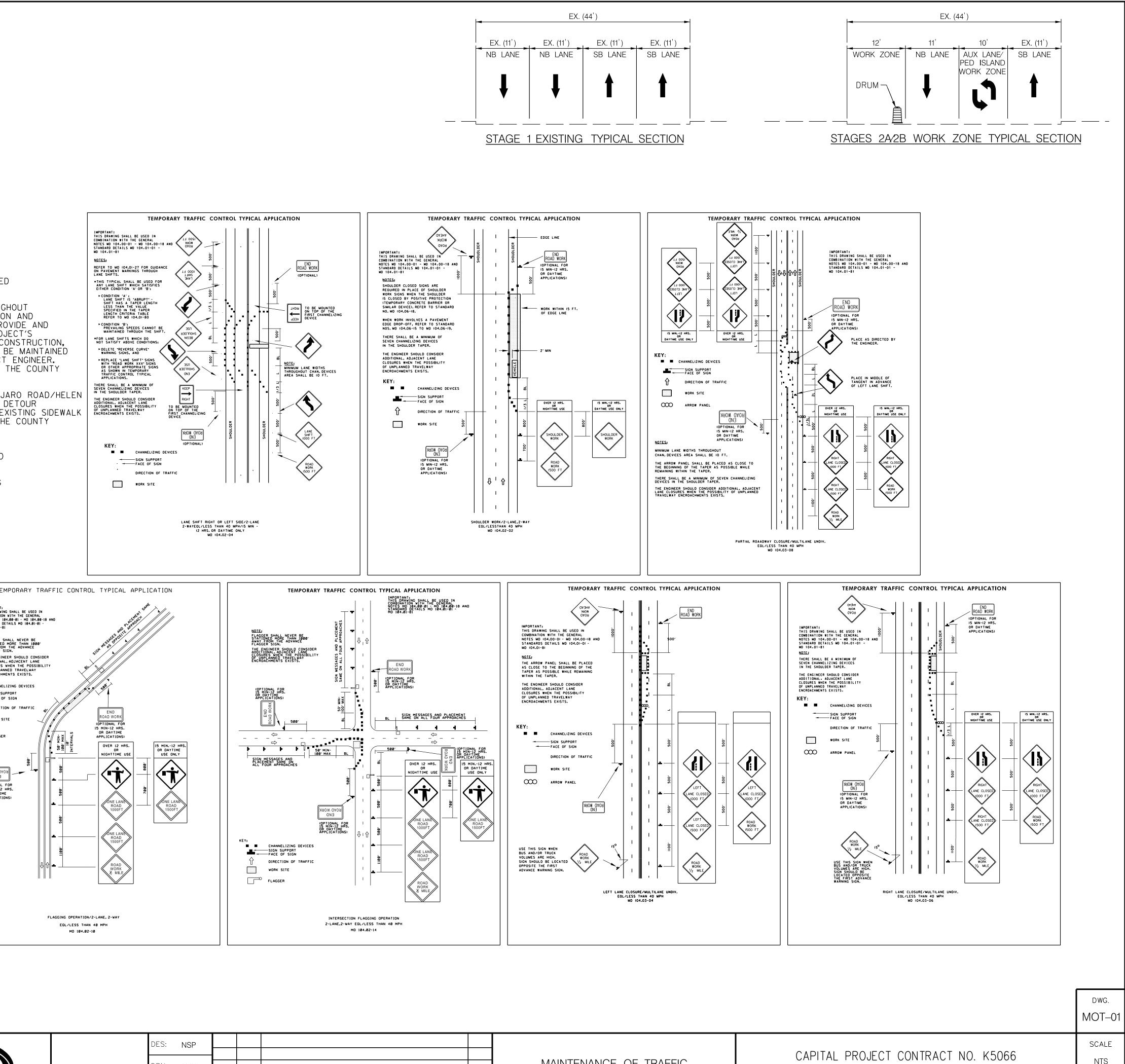


	<u>ORK ZONE TRAFFIC CONTROL PLAN GENERAL NOTES /WORK RESTRICTIONS</u> ALL WORK SHALL BE CONDUCTED IN ACCORDANCE WITH THE LATEST VERSION OF THE MARYLAI DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION'S (MDOT SHA) BOOK OF STA	
2	FOR HIGHWAY AND INCIDENTAL STRUCTURES AND MSHA'S MARYLAND MANUAL ON UNIFORM TRAI CONTROL DEVICES (MDMUTCD).	
۷.	EXISTING TRAFFIC SIGNS IN CONFLICT WITH THE WORK ZONE TRAFFIC CONTROL PLANS SHALL E COVERED. TEMPORARY TRAFFIC SIGNS SHALL BE INSTALLED ONLY AS NECESSARY FOR EACH IN PHASE OF CONSTRUCTION, WITH SIGNS RELOCATED AS APPLICABLE BETWEEN SEPARATE STAGES	DIVIDUAL
3.	ALL EXISTING PAVEMENT MARKINGS IN CONFLICT WITH THE CURRENT TRAFFIC CONTROL PHASE REMOVED, AS DIRECTED BY THE ENGINEER.	SHALL BE
4.	CONTRACTOR SHALL REMOVE ALL EQUIPMENT AND MATERIAL FROM THE TRAVELED PORTION OF ROADWAY. ALSO, EQUIPMENT AND MATERIALS SHOULD NOT BE STORED IN SUCH A MANNER AS OBSTRUCT SIGHT DISTANCE AT ANY INTERSECTING ROAD.	
5.	DURING LANE CLOSURES, REFERENCE MD 104.02-04, MD STD.104.03-04, MD STD.104.03-06, AND MD STD.104.03-08.	
6.	DURING FLAGGING OPERATIONS, REFERENCE MD STD.104.02-10 AND MD STD.104.02-14.	
7.	WHEN HOWARD COUNTY PUBLIC SCHOOLS ARE IN SESSION, WORK SHALL ONLY BE PERMITTED DI HOURS OF 9:00 AM TO 3:00 PM. WHEN SCHOOLS ARE NOT IN SESSION, WORK IS PERMITTED F 8:00 AM TO 4:00 PM.	
8.	FOR TEMPORARY IMPACTS TO BUS ROUTES, BUS STOPS AND RELOCATION OF EXISTING RTA BUS SIGNS, CONTACT ANDREW JOHNSON (ASSISTANT GENERAL MANAGER OF OPERATIONS) AT 301-30	
9.	ACCESS TO ALL PROPERTIES MUST BE MAINTAINED THROUGHOUT CONSTRUCTION.WORK SHALL I TO MINIMIZE DISRUPTION TO PROPERTY OWNERS.	BE SEQUENCED
0.	THE CONTRACTOR IS ALERTED TO THE COUNTY'S REQUIREMENTS TO MAINTAIN PEDESTRIAN TRACONSTRUCTION. THE CONTRACTOR SHALL FOLLOW MDOT SHA'S STANDARD SPECIFICATIONS FOR MATERIALS, SECTION 104.31 ACCESSIBLE PEDESTRIAN MAINTENANCE OF TRAFFIC. THE CONTRACTOR MAINTAIN AN ACCESSIBLE PEDESTRIAN ROUTE, TO THE "MAXIMUM EXTENT FEASIBLE", THROUGHOR LIMITS. WHEN AN EXISTING PEDESTRIAN ACCESS ROUTE WITHIN THE PUBLIC RIGHT OF WAY IS BI AN ALTERNATE ACCESSIBLE PEDESTRIAN ROUTE SHALL BE PROVIDED, AND/OR PEDESTRIAN TRAAS PER MDOT SHA STD. NOS. MD 104.06-09A THRU MD 104.06-09D, AS DIRECTED BY THE COL WORK SHALL BE PHASED TO ONLY CLOSE ONE CORNER AT A TIME AT AN INTERSECTION, AS PROJECT ENGINEER.	CONSTRUCTION OR SHALL PRO OUT THE PROJ OCKED BY CO OFFIC SHALL B NTY PROJECT
.	THE CONTRACTOR SHALL MAINTAIN THE EXISTING SCHOOL CROSSINGS OF OAKLAND MILLS ROAD DORSEY WAY AND AT DAWN DAY DRIVE/SEWELLS ORCHARD DRIVE AT ALL TIMES. THE CONTRAC PEDESTRIANS INTO THE SIDE STREET PAVEMENT AT THE ADJACENT INTERSECTIONS IN ORDER CURB RAMPS FOR ADA ACCESSIBILITY, AS PER MDOT SHA STD. NO. MD 104.06-09A, OR AS DIR PROJECT ENGINEER.	CTOR SHALL D TO UTILIZE EX
12.	UPON COMPLETION OF THE WORK, BUT PRIOR TO DEMOBILIZATION, THE CONTRACTOR SHALL RE REMNANT OF CONSTRUCTION MATERIALS FROM THE SITE. THE CONTRACTOR SHALL RESTORE AL AREAS TO A CONDITION EQUAL TO OR BETTER THAN THE PRE-CONSTRUCTION CONDITIONS.	
3.	ANY DAMAGE CAUSED BY THE CONTRACTOR TO EXISTING PUBLIC RIGHT-OF-WAY, EXISTING PAVI CURB AND GUTTER, EXISTING UTILITIES ETC. SHALL BE CORRECTED AT THE CONTRACTORS EXP	
14.	WORK AREAS SHALL BE PERMANENTLY STABILIZED DAILY BEFORE LEAVING THE WORK SITE.	
١.	AGE I MAINTAIN EXISTING TRAFFIC PATTERN. DURING OFF PEAK HOURS. CLOSE THE RIGHT LANE ALONG OAKLAND MILLS ROAD	TEM
	TO PROVIDE A WORK AREA, SEE GENERAL NOTE 5. TO PROVIDE A WORK AREA ON SIDE STREETS REFERENCE MD STD.104.02-02.	THIS DRAWING Combination Notes MD 104 Standard Dei MD 104.01-81 Note:
ST.	AGE 2A INSTALL A PVMS SEVEN DAYS IN ADVANCE AT EACH END OF THE CORRIDOR	FLAGGER SH Stationed Away From Flagger Si The Engine Additional,
2.	INDICATING "NEW TRAFFIC PATTERN" AS DIRECTED BY THE ENGINEER. USING TEMPORARY LANE CLOSURES ALONG OAKLAND MILLS ROAD, REMOVE EXISTING PAVEMENT MARKINGS AND INSTALL TEMPORARY PAVEMENT MARKINGS AS SHOWN ON	CLOSURES W OF UNPLANN ENCROACHME KEY: CHANNELI
ст	THE PLANS.	FACE OF DIRECTIO WORK SIT
51.	AGE 2B DURING OFF PEAK HOURS, CLOSE LANES FOR MILLING AND OVERLAY OPERATIONS, SEE GENERAL NOTES 5 AND 6.	FLAGGER
		אאסש מאסצ
<u>CO</u>	ONSTRUCTION ACTIVITIES	OPTIONAL F 15 MIN-12 H OR DAYTIME APPLICATION
	AGE I	
	CONSTRUCT SIDEWALK, CURB, AND SIDEWALK RAMPS ALONG OAKLAND MILLS ROAD.	
	CONSTRUCT TRAFFIC SIGNALS. AGE 2	
۱.	CONSTRUCT PEDESTRIAN ISLANDS AND DOBBIN ROAD CHANNELIZING ISLAND.	
2.	MILL AND OVERLAY PAVEMENT AS SHOWN ON THE PLANS.	
3.	INSTALL PERMANENT SIGNING AND MARKINGS.	
	SSIONAL CERTIFICATION, I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR	
	ED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS STATE OF MARYLAND, LICENSE NO. 27048, EXPIRATION DATE: 01-28-2024." DEDARTMENT OF DURIC WORKS PREPARED BY :	
	HOWARD COUNTY, MARYLAND.	
ECTOF	R OF PUBLIC WORKS DATE CHIEF, BUREAU OF HIGHWAYS DATE	RA
EF, B	BUREAU OF ENGINEERING DATE CHIEF, TRAFFIC ENGINEERING DIVISION DATE Whitman, Requar	

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801 South Caroline Street, Baltimore, Maryl





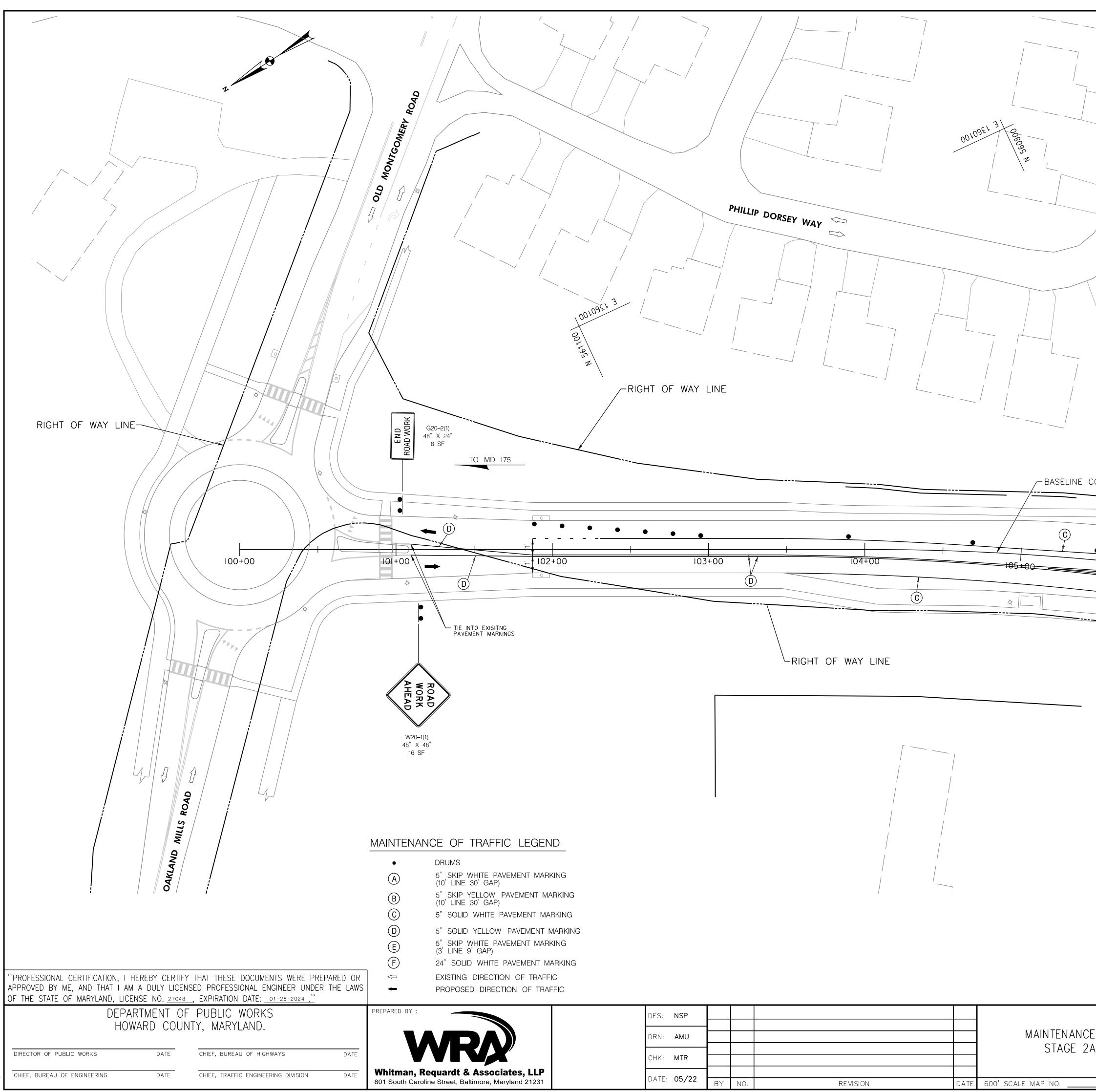
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	DRN: AMU					MAINTENANCE OF TRAFFIC
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ates, LLP	DATE: 05/22					
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ELECTION DISTRICT 6

HOWARD COUNTY, MARYLAND

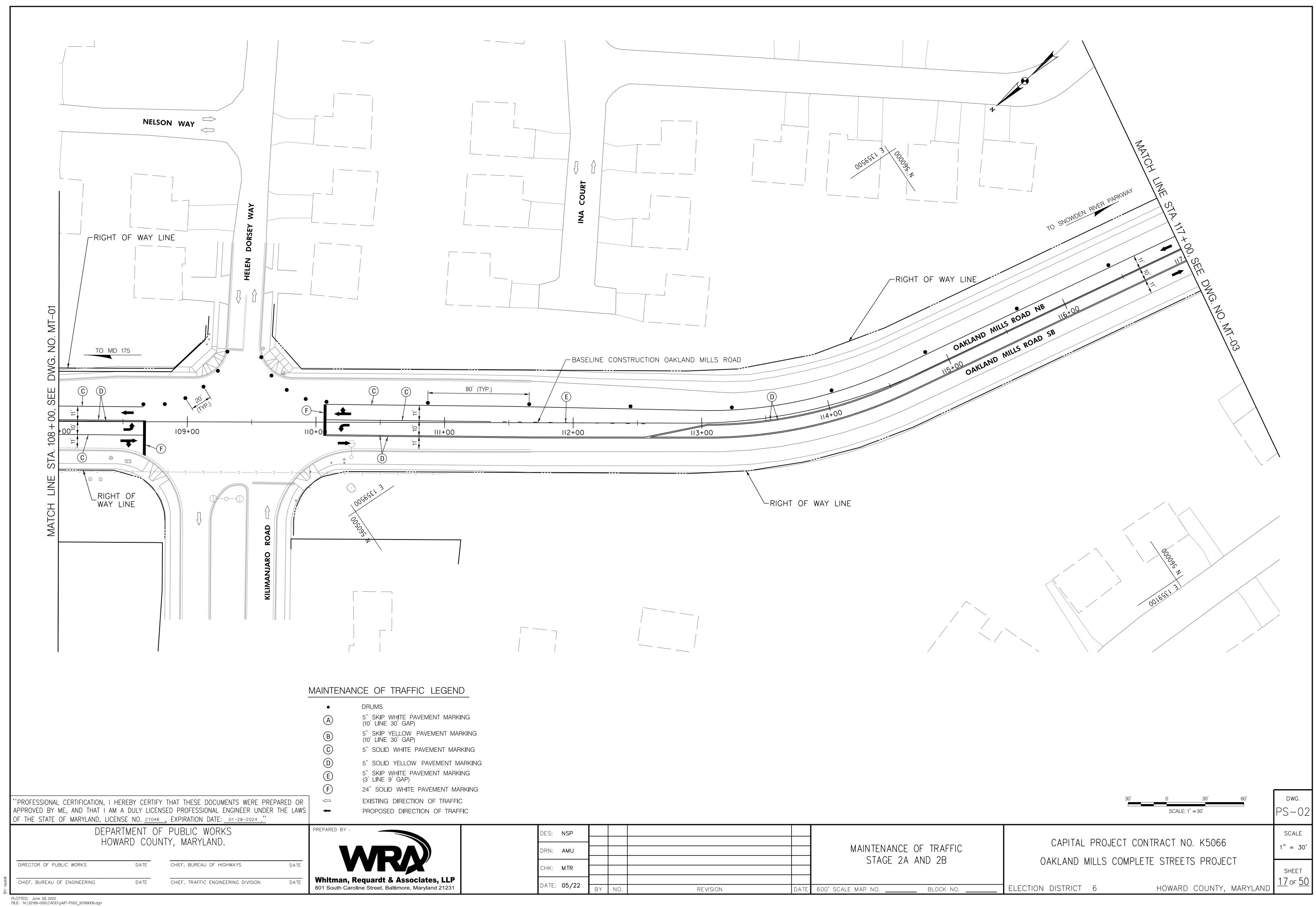
OAKLAND MILLS COMPLETE STREETS PROJECT

SHEET <u>15</u> of <u>50</u>

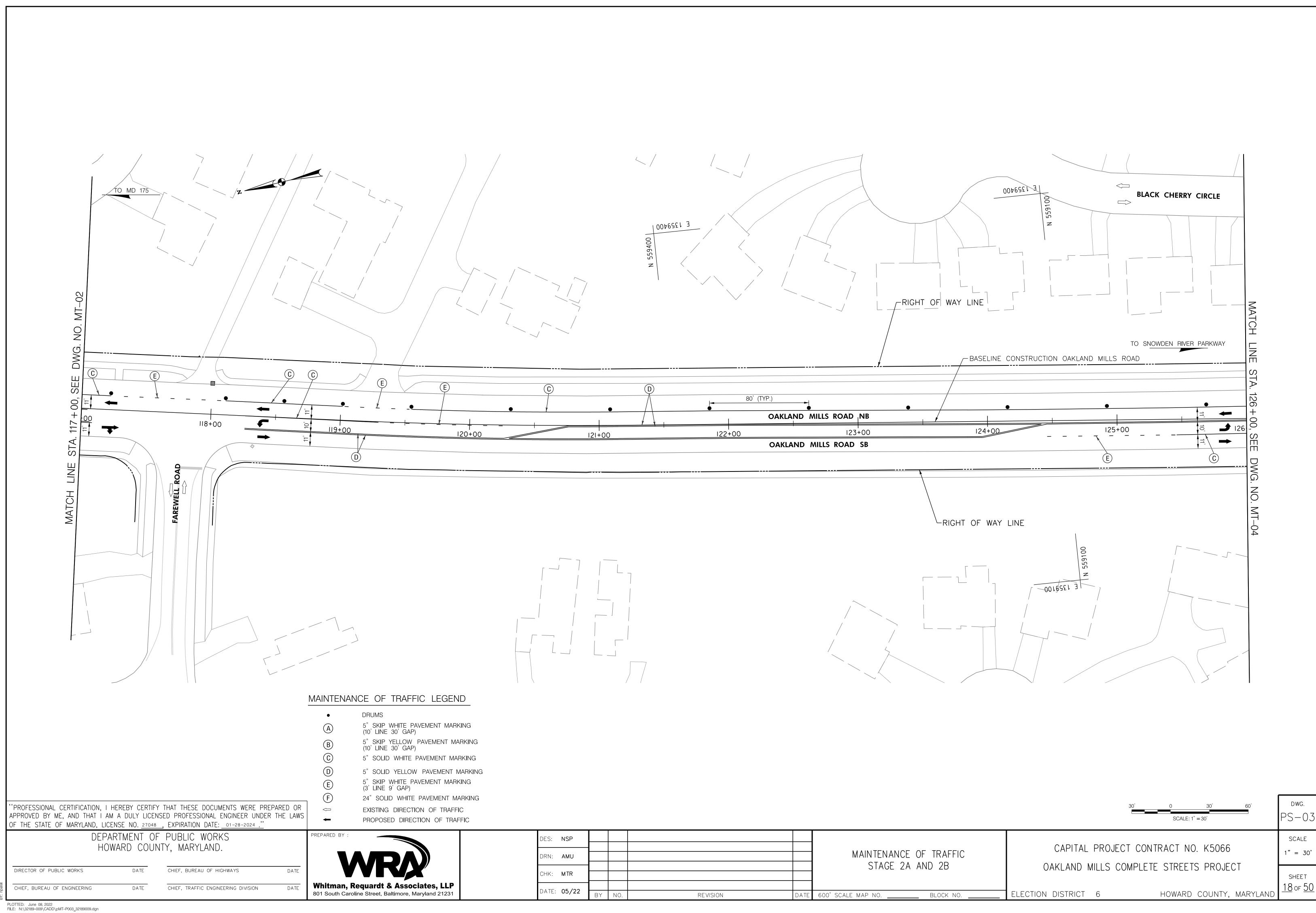


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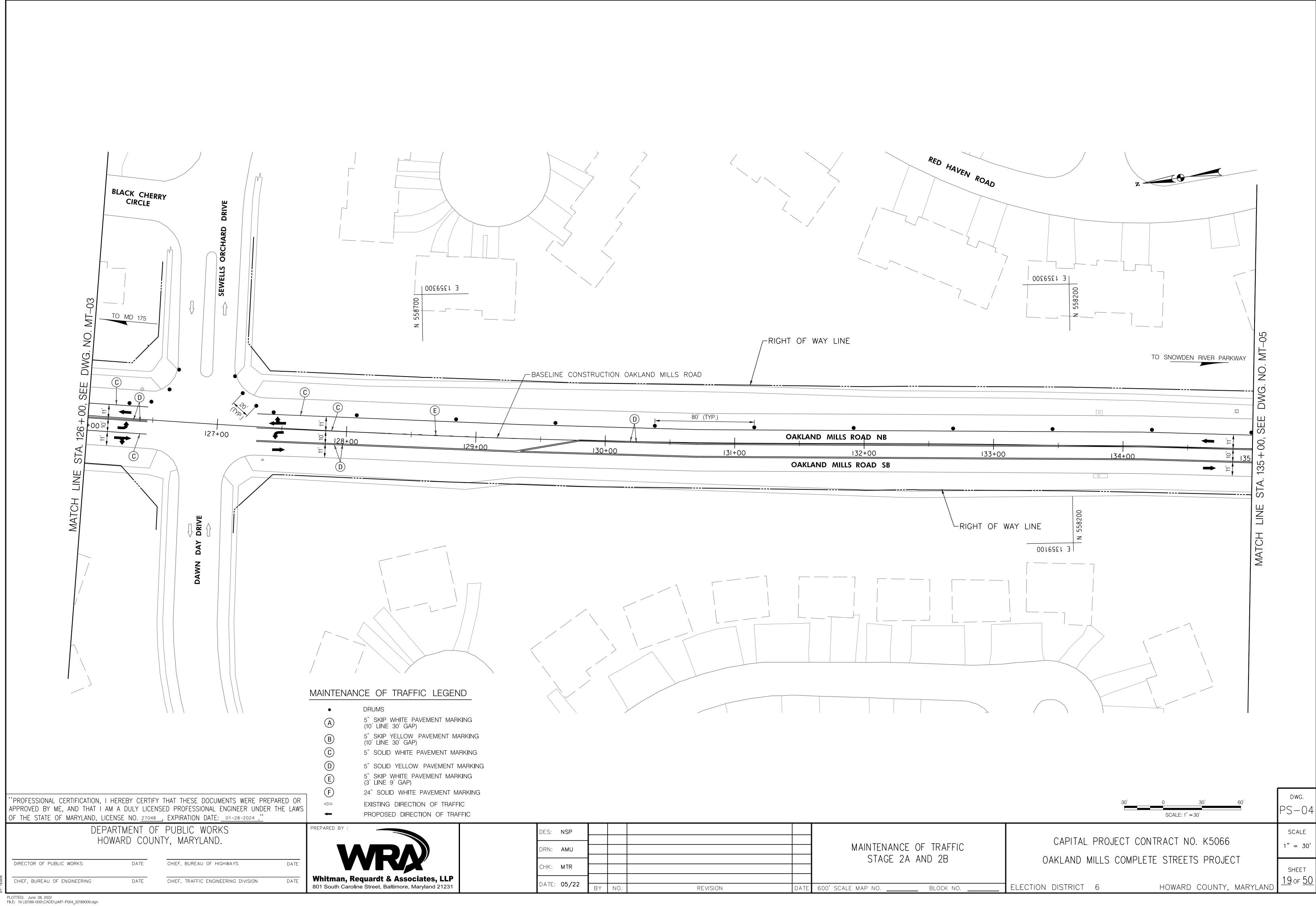
NELSON		
CONSTRUCTION OAKLAND MIL	TO SNOWDEN RIVER PARKWAY	
	MATCH LINE STA	
	30' 0 30' 60' SCALE: 1" = 30'	dwg. MT—01 scale
E OF TRAFFIC A AND 2B	CAPITAL PROJECT CONTRACT NO. K5066 OAKLAND MILLS COMPLETE STREETS PROJECT ELECTION DISTRICT 6 HOWARD COUNTY, MARYLANE	1" = 30' SHEET 16 of 50
DLUCK NU.	LECTION DISTRICT O TOWARD COUNTE, WARTLAND	·



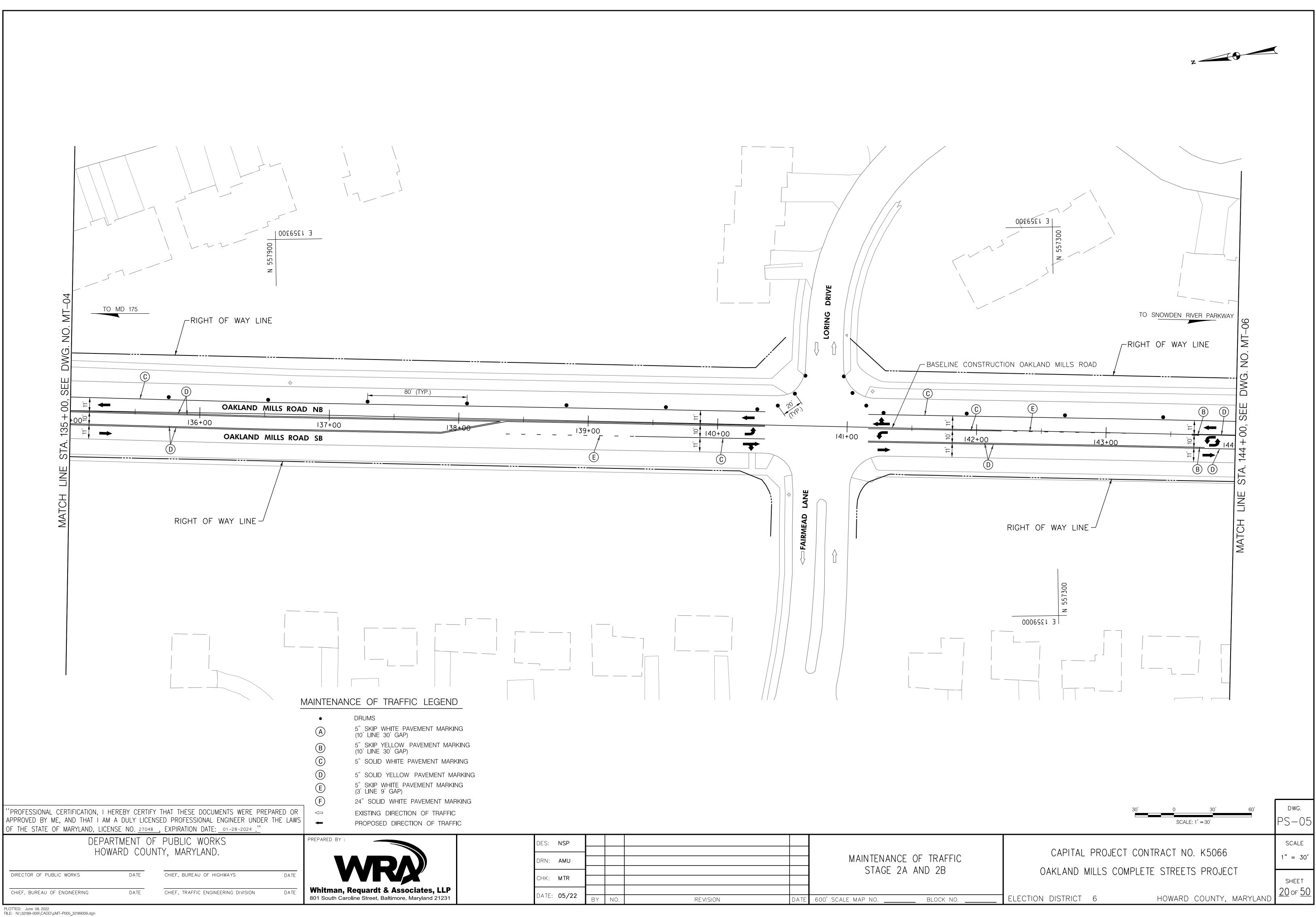
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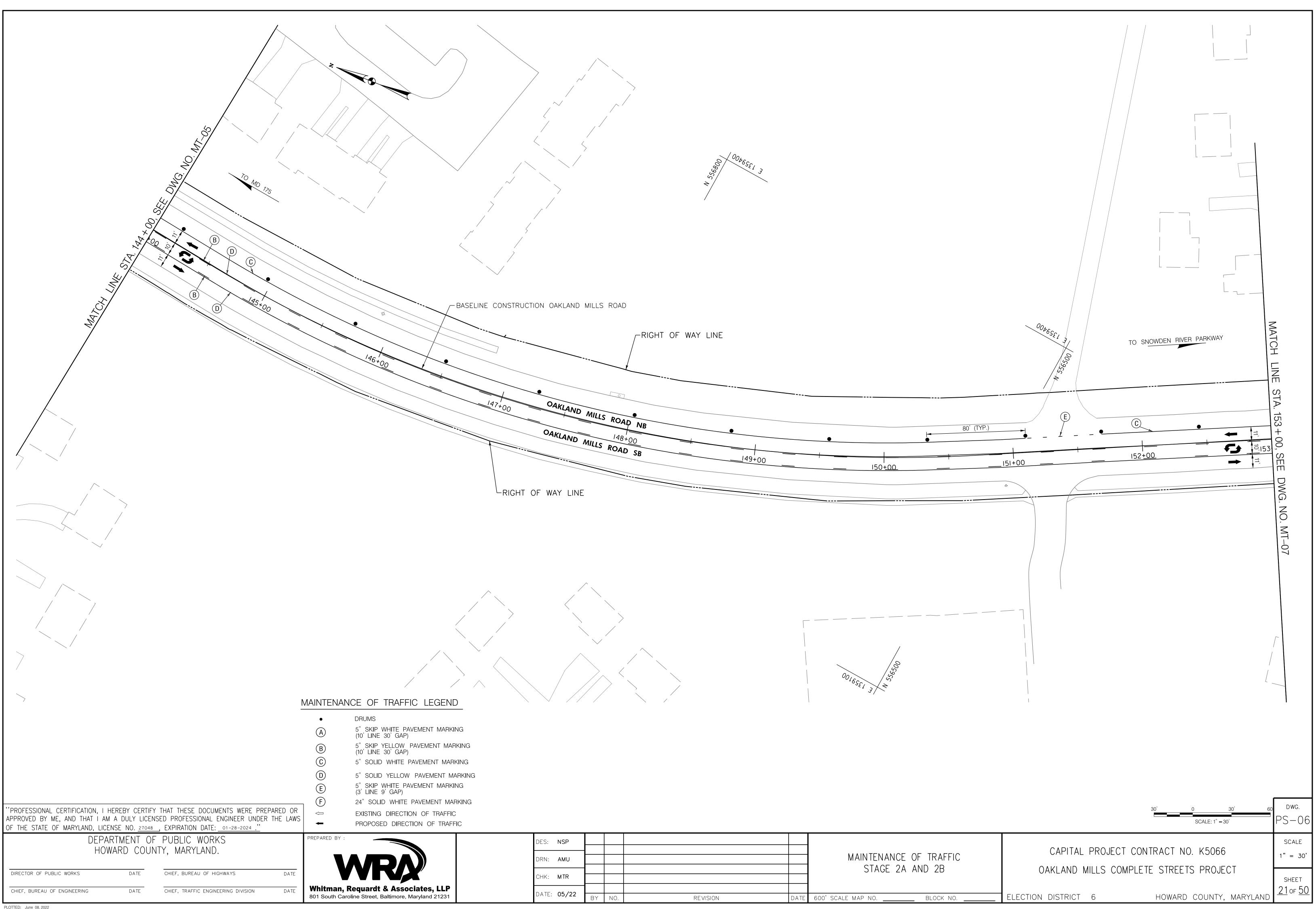


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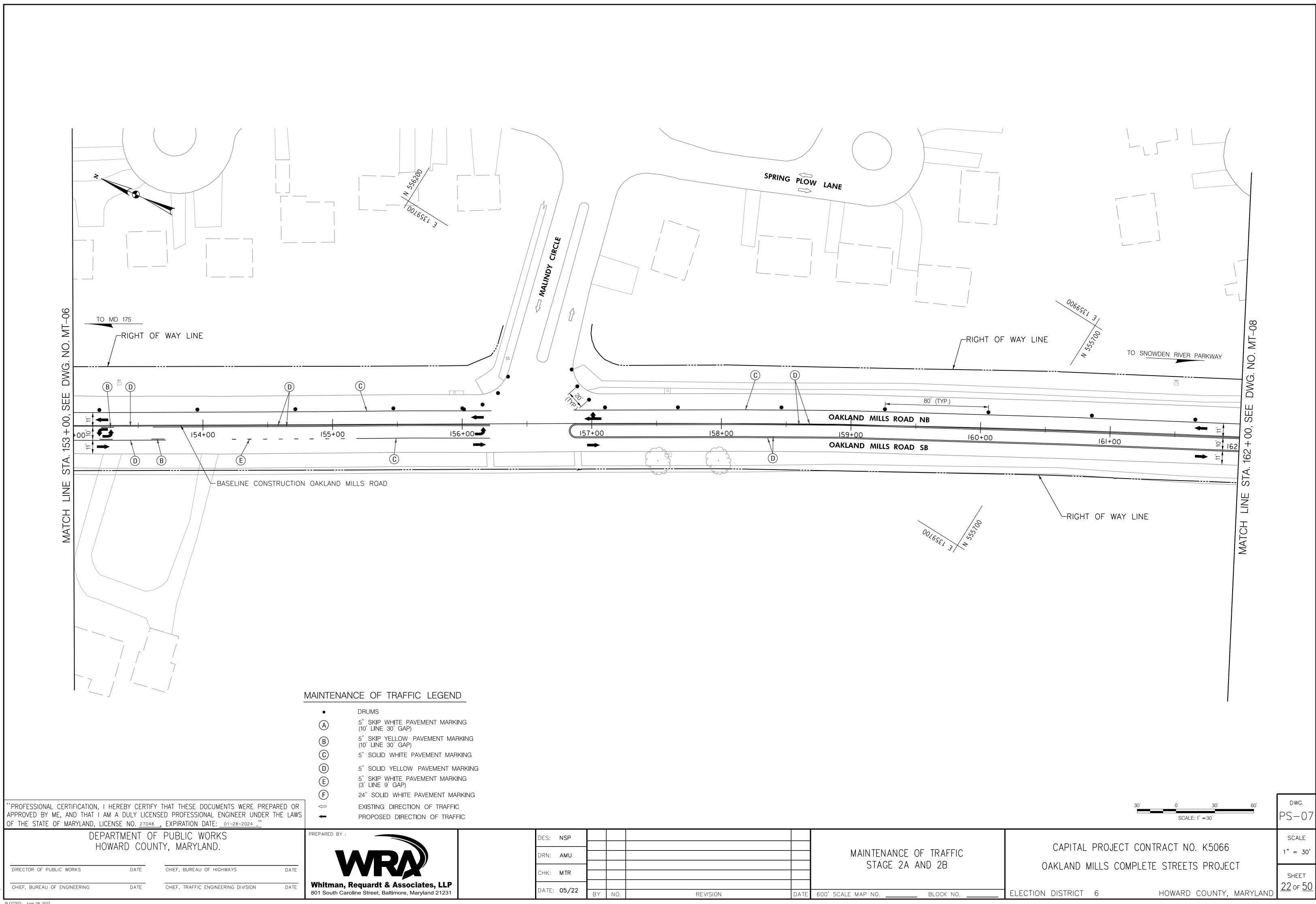
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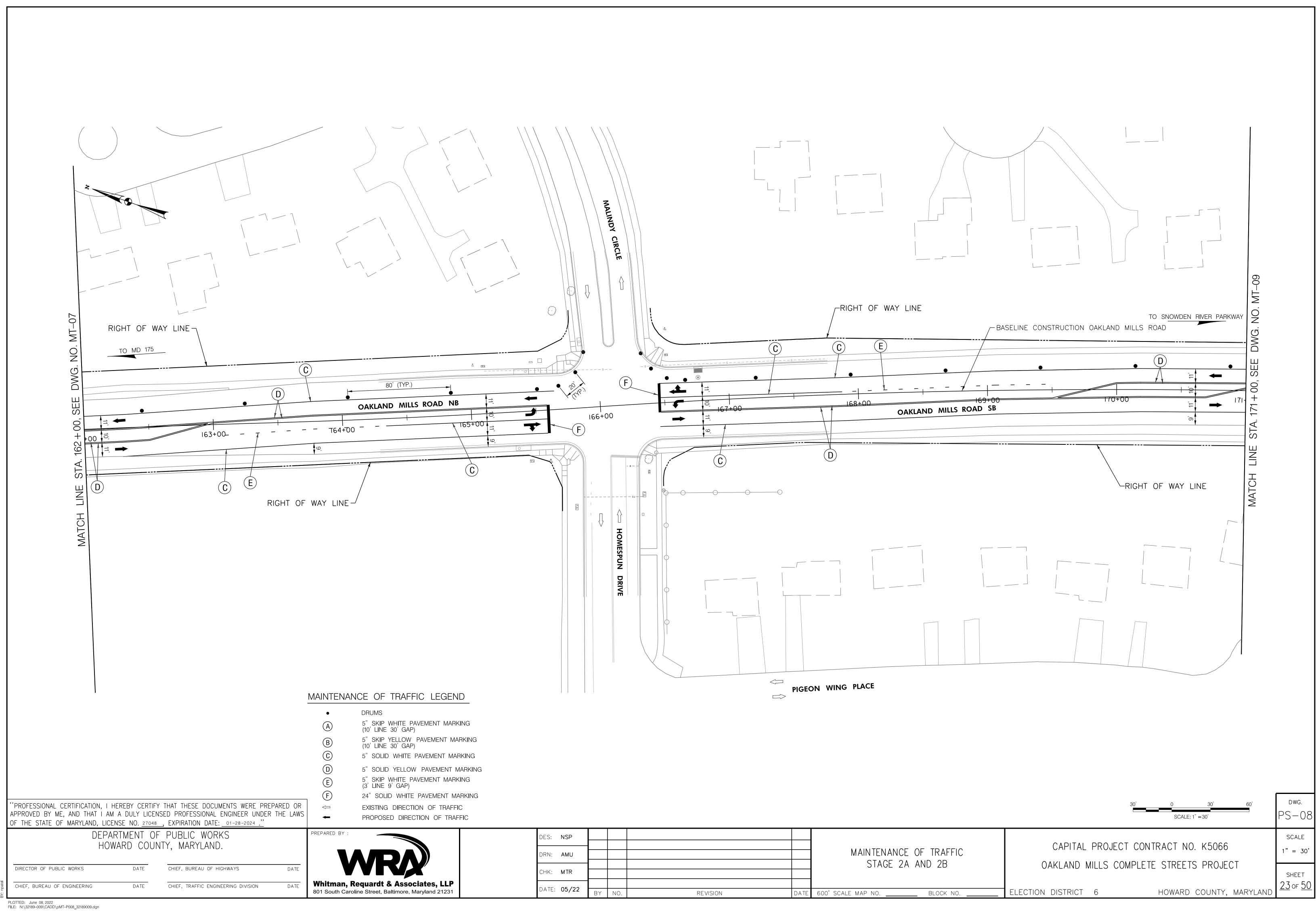
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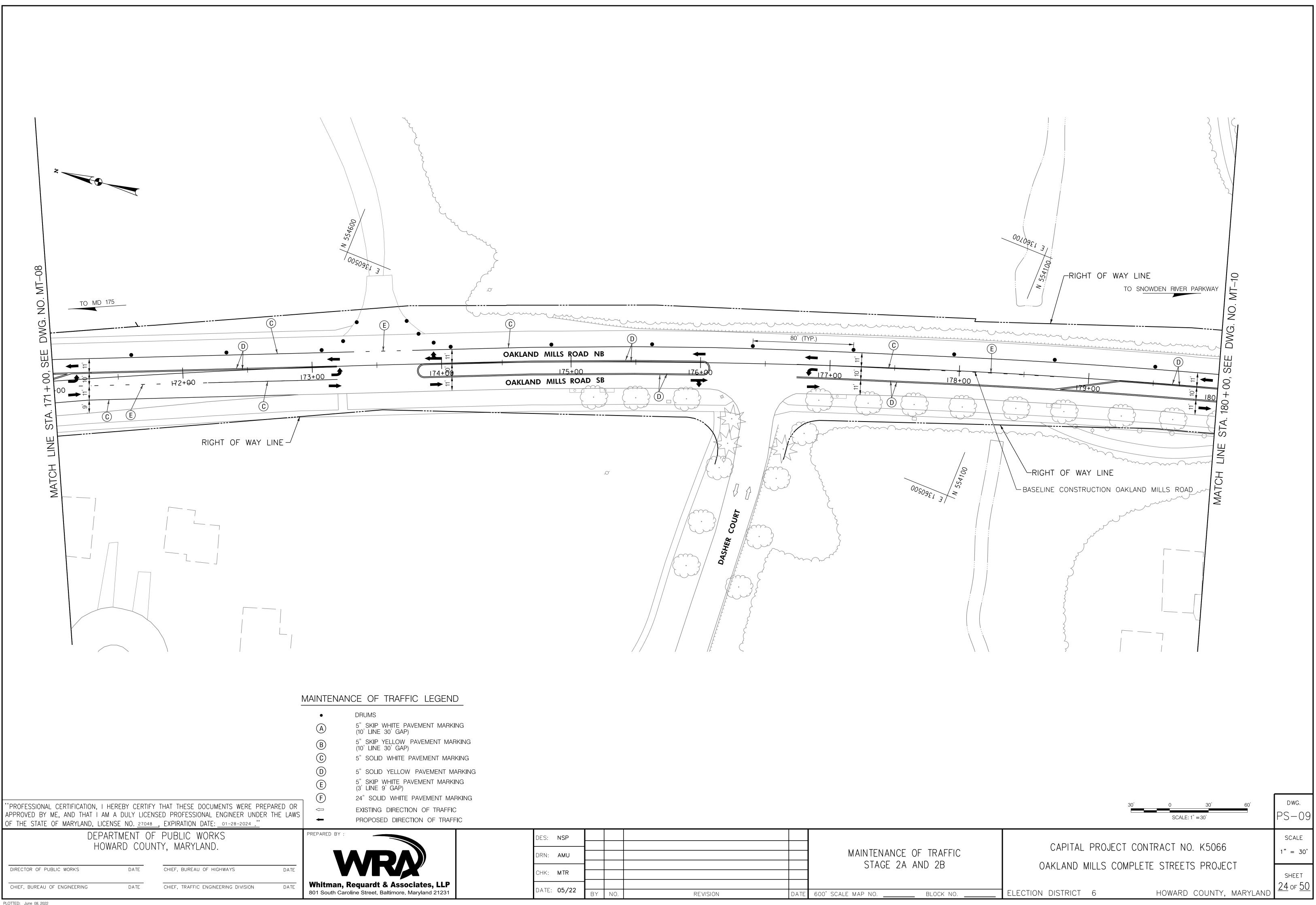


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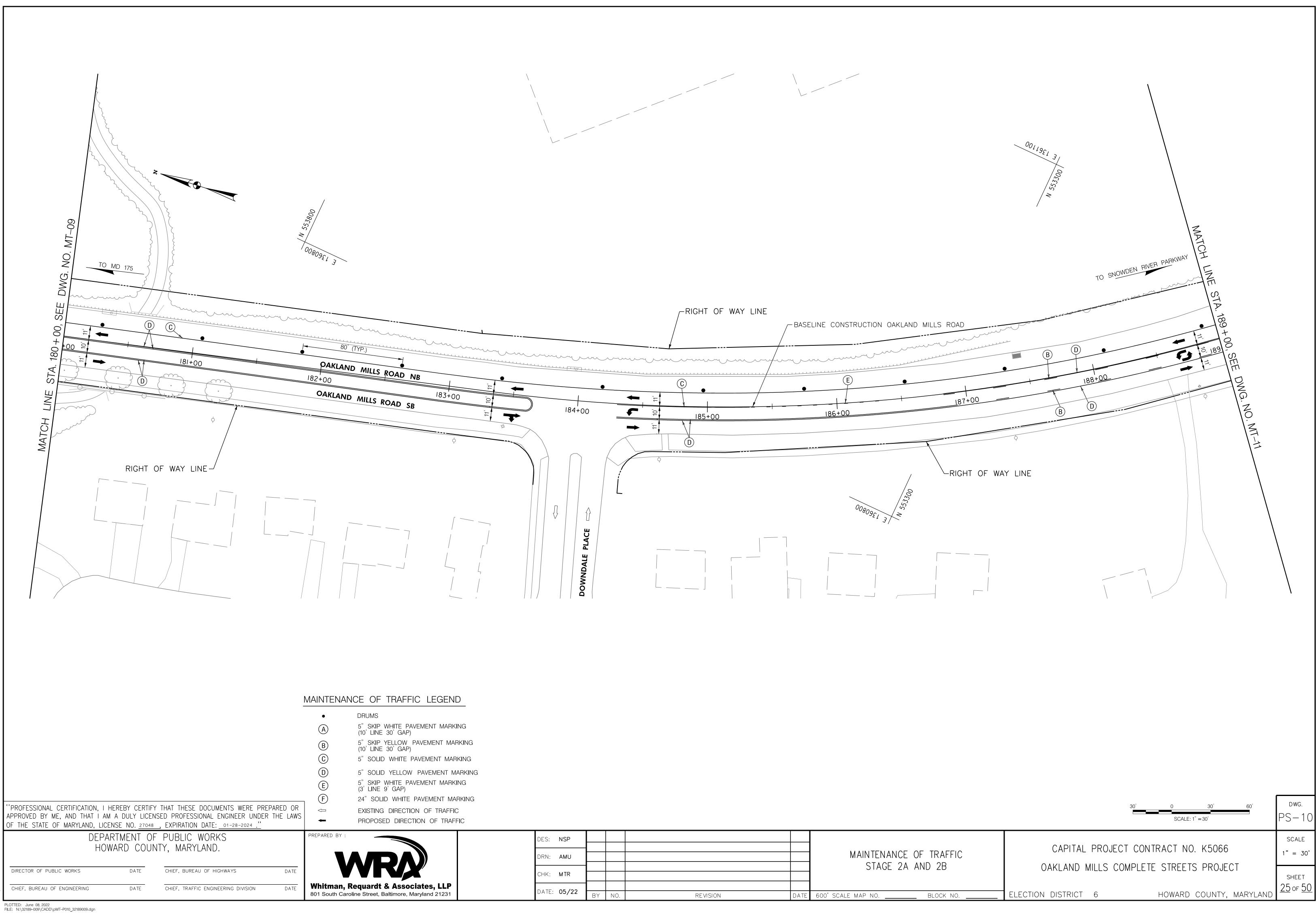


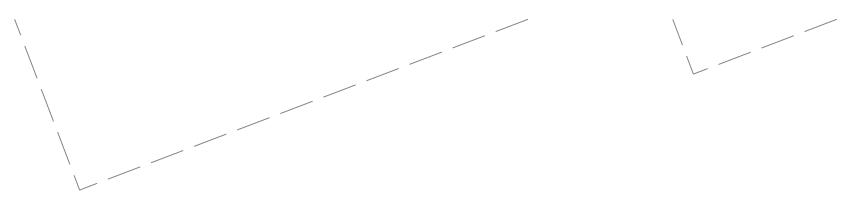
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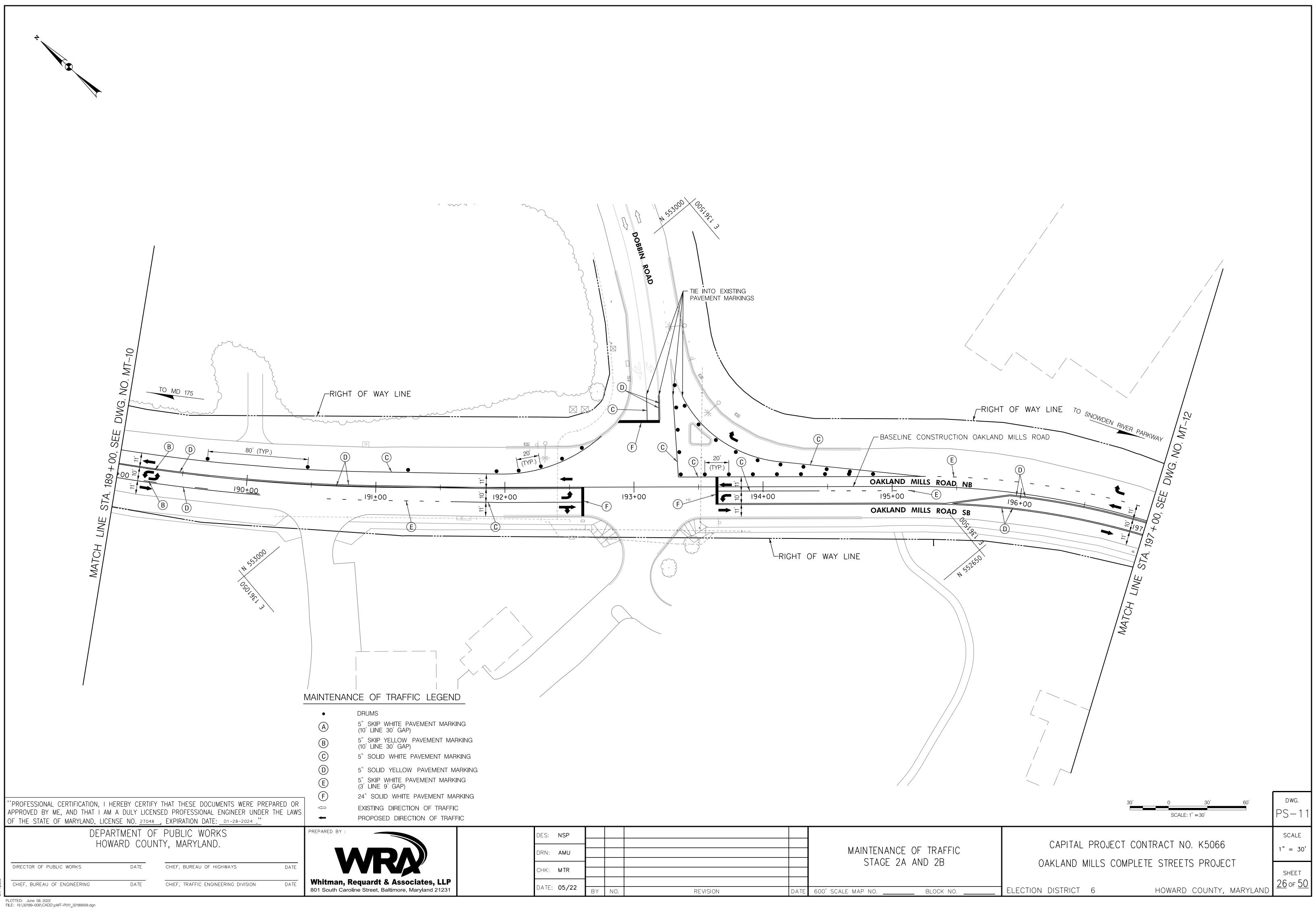
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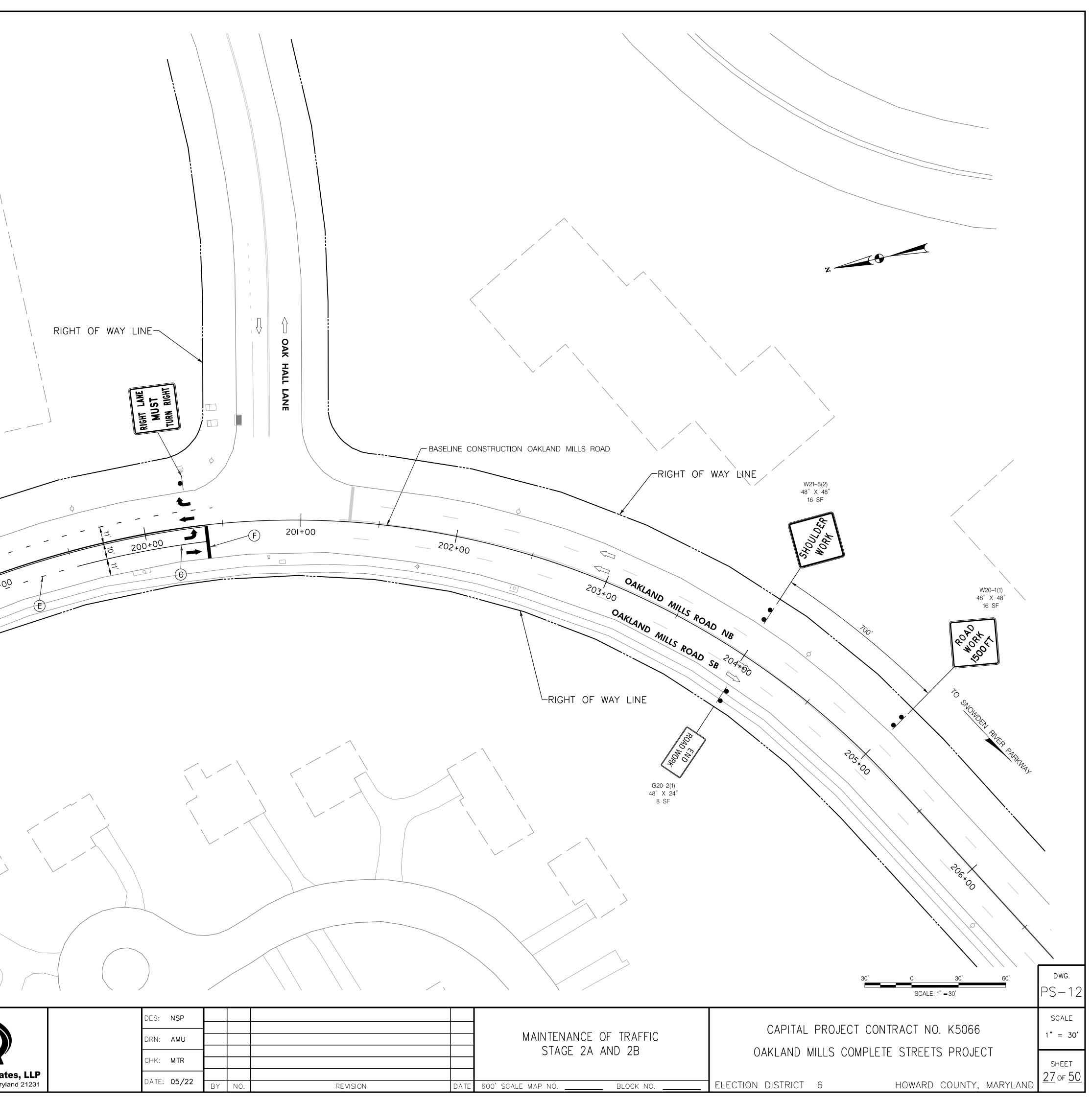




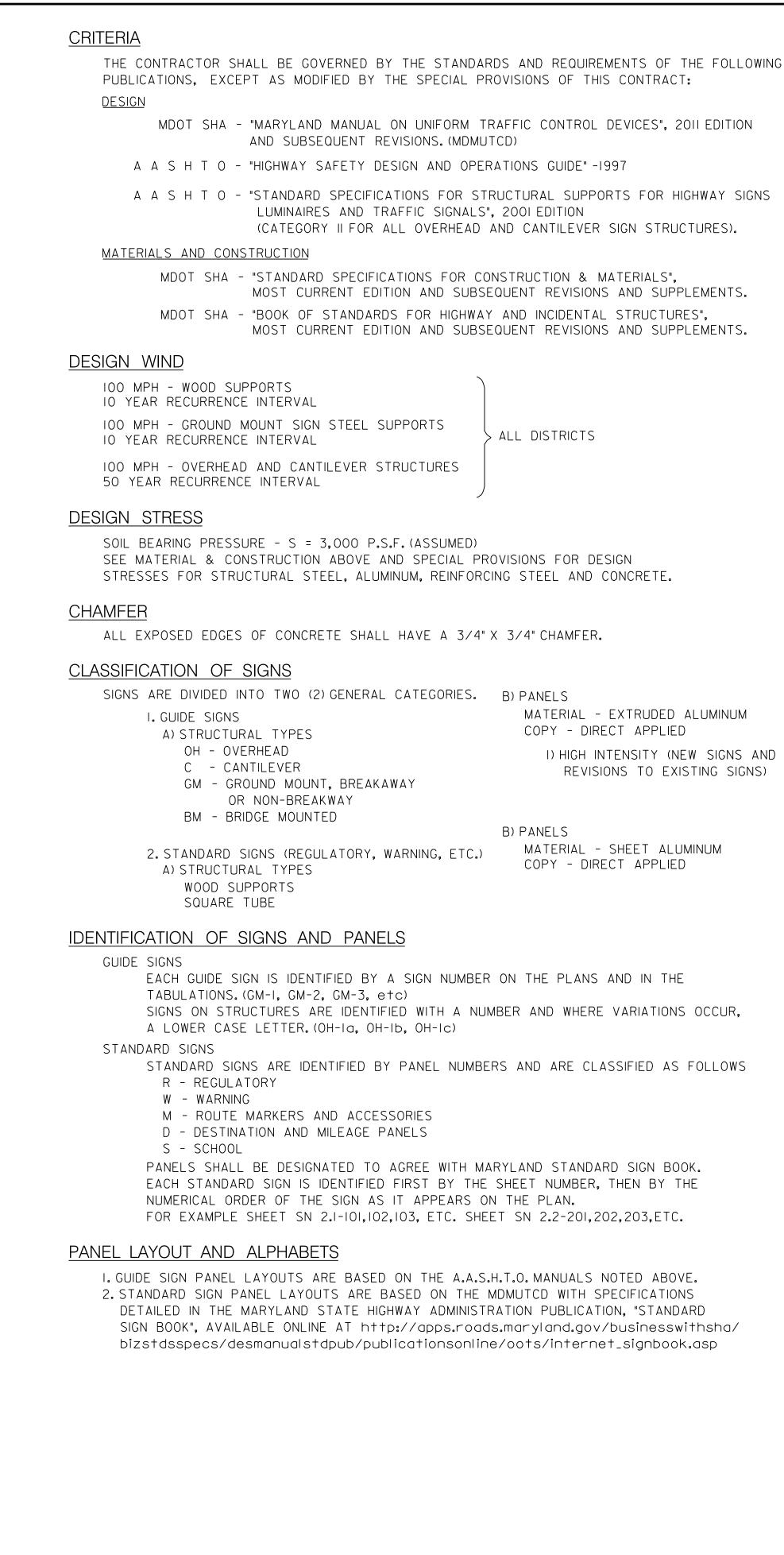
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	' SOLID YELLOW PAVEMENT MARKING ' SKIP WHITE PAVEMENT MARKING B' LINE 9' GAP) 4" SOLID WHITE PAVEMENT MARKING XISTING DIRECTION OF TRAFFIC ROPOSED DIRECTION OF TRAFFIC		
	THE CONDITION OF THE CONDICATION OF THE CONDITION OF THE CONDITION OF THE CONDITION OF THE		
APPROVED BY ME, AND THAT DF THE STATE OF MARYLAND D	N, I HEREBY CERTIFY THAT THESE DOCU I AM A DULY LICENSED PROFESSIONAL U, LICENSE NO. <u>27048</u> , EXPIRATION DATE DEPARTMENT OF PUBLIC WOF HOWARD COUNTY, MARYLAN	UMENTS WERE PREPARED OR L ENGINEER UNDER THE LAWS E:	PREPARED BY :



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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. 27048 , EXPIRATION DATE: 01-28-2024 ." DEPARTMENT OF PUBLIC WORKS REPARED BY HOWARD COUNTY, MARYLAND. CHIEF, BUREAU OF HIGHWAYS DIRECTOR OF PUBLIC WORKS DATE DATE

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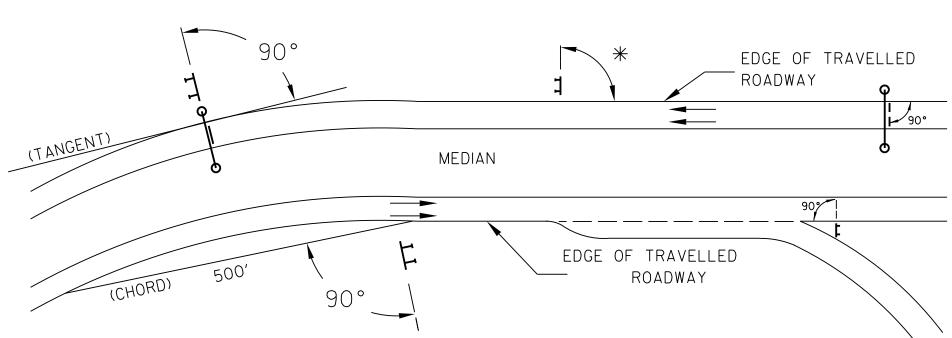
CHIEF, BUREAU OF ENGINEERING

CHIEF, TRAFFIC ENGINEERING DIVISION DATE

Whitman, Requardt & Associa 801 South Caroline Street, Baltimore, Mary

DATE

ORIENTATION OF SIGN FACES



* UNDER 30 FEET FROM TRAVELLED ROADWAY TO NEAR EDGE OF SIGN - 93° AWAY FROM THE ROAD TO AVOID SPECULAR REFLECTION AS INDICATED IN 813.03 OF THE MARYLAND STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS.

OVER 30 FEET FROM TRAVELLED ROADWAY TO NEAR EDGE OF SIGN - 90°

REFLECTORIZATION

BACKGROUNDS, BORDERS, TEXTS AND ALL OTHER ELEMENTS OF SIGN PANELS SHALL BE REFLECTORIZED EXCEPT WHERE NOTED. REFER TO PROJECT REQUIREMENTS FOR MORE DETAIL.

SIGN LOCATIONS

- I. GUIDE SIGNS ARE LOCATED ON THE PLANS BY DIMENSION TO SURVEY STATIONS,
- OR WHEN NECESSARY, TO IDENTIFIABLE PHYSICAL FEATURES.
- 2. ALL CHANGES IN THE LOCATIONS OF SIGNS AS SHOWN ON THE PLAN SHALL HAVE THE PRIOR APPROVAL OF THE ENGINEER.

EXISTING UTILITIES

THE ENGINEER DOES NOT WARRANT OR GUARANTEE THE ACCURACY OR COMPLETENESS OF UTILITY INFORMATION SHOWN ON THE PLAN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING FACILITIES WHICH MIGHT BE AFFECTED BY THIS WORK OR HIS OPERATION.

ROADSIDE SIGNS

- I. VERTICAL ALIGNMENT
- POSITION PANEL SO FACE IS PLUMB.
- 2. HORIZONTAL ALIGNMENT (SEE DIAGRAM ABOVE)
- A) ON STRAIGHT ROADWAY SECTIONS, ANGLE OF SIGN FACE TO ROADWAY VARIES WITH DISTANCE FROM TRAVELLED ROADWAY TO NEAR EDGE OF SIGN - SEE DIAGRAM. B) ON THE INSIDE OF HORIZONTAL CURVES, POSITION SIGN SO FACE OF PANEL MAKES AN ANGLE OF 90° WITH A CHORD BETWEEN A POINT ON NEAR EDGE OF PAVEMENT
- AT SIGN LOCATION AND A POINT ON EDGE OF PAVEMENT 500' IN ADVANCE OF SIGN.
- C) ON THE OUTSIDE OF HORIZONTAL CURVES, POSITION SIGN SO FACE OF PANEL IS AT RIGHT ANGLES TO THE TANGENT OF THE CURVE AT THE SIGN LOCATION.
- D) POSITIONING OF SIGNS AT GORES AND RAMP SEPARATIONS IS REFERRED TO THE NORMAL EDGE OF THE MAINLINE ROADWAY.

OVERHEAD SIGNS

I. VERTICAL ALIGNMENT

POSITION PANELS FOR ALL OVERHEAD STRUCTURES SO THAT PANEL FACE IS PLUMB. 2. OVERHEAD SIGN STRUCTURES SHALL NOT BE ERECTED WITHOUT ATTACHING LUMINAIRES. SUPPORTS, AND/OR SIGNS.

- 3. HORIZONTAL ALIGNMENT
- A) POSITION ALL OVERHEAD SIGNS SO THAT THE FACE OF THE PANEL IS AT RIGHT ANGLES TO THE NORMAL EDGE OF ROADWAY. IF ON A STRAIGHT ROADWAY SECTION. B) POSITION ALL OVERHEAD SIGNS SO THAT THE FACE OF THE PANEL IS AT RIGHT ANGLES
- TO THE TANGENT OF THE CURVE AT SIGN LOCATION. IF ON A HORIZONTAL CURVE. C) POSITIONING OF SIGNS AT GORES AND RAMP SEPARATIONS IS REFERRED TO THE NORMAL EDGE OF THE MAINLINE ROADWAY.
- 4. VERTICAL CLEARANCE
- A) OVERHEAD SIGNS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 17'-9" FROM ROADWAY TO THE BOTTOM OF LIGHT FIXTURES. ALL LIGHT FIXTURES ARE TO BE AT THE SAME ELEVATION. B) IF THE CONTRACTOR CANNOT OBTAIN 17'-9" (SEE 3A) CLEARANCE, HE IS TO CEASE WORK AND CONTACT THE PROJECT ENGINEER FOR FURTHER INSTRUCTIONS. THE PROJECT ENGINEER MAY CONTACT THE TRAFFIC ENGINEERING DESIGN DIVISION FOR ASSISTANCE.
- OVERHEAR SIGNS THE MINIMUM CLEARANCE TO ROTTOM OF RESIGN SIGN 201 0

PROJECT REQUIREMENTS CONT'D

- (I). GROUND MOUNTED: ASTM TYPE IX (9).

- THE MAIN SIGN.
- PROPOSED SIGN.
- WIDTH OF SHEET ALUMINUM BLANKS: LANCECT DIMENCION

LONGEST DIMENSION	MINIMUM THICKNESS
UP TO 12"	0.040"
GREATER THAN 12" TO 24"	0.063"
GREATER THAN 24" TO 36"	0.080"
GREATER THAN 36" TO 48"	0.100"
OVER 48"	0.125"

HOWARD COUNTY SPECIAL NOTES:							
COUNTY PLANS ARE APPROXIMATE AND MUST BE	DEVICE LOCATIONS AND PAVEMENT MARKINGS SHOWN ON THE HOWARD FIELD APPROVED BY HOWARD COUNTY TRAFFIC DIVISION (410)313-5752 AFFIC CONTROL DEVICES AND PAVEMENT MARKINGS.						
2) ALL SIGN POSTS USED FOR TRAFFIC CONTROL SIGNS INSTALLED IN THE COUNTY RIGHT-OF-WAY SHALL BE MOUNTED ON A 2" GALVANIZED STEEL, PERFORATED ("QUICK PUNCH" TYPE), SQUARE TUBE POST (14 GAUGE) INSERTED INTO A 2-1/2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE SLEEVE (12 GAUGE) - 3' LONG. THE ANCHOR SHALL NOT EXTEND MORE THAN TWO "QUICK PUNCH" HOLES ABOVE GROUND LEVEL. A GALVANIZED STEEL POLE CAP SHALL BE MOUNTED ON TOP OF EACH POST.							
3)ALL WARNING SIGNS ON THE HOWARD COUNTY PLANS SHALL BE BLACK ON YELLOW, UNLESS OTHERWISE NOTED. PEDESTRIAN SIGNS SHALL BE BLACK ON FLUORESCENT YELLOW-GREEN AS NOTED.							
4)ALL SIGNS ON HOWARD COUNTY PLANS SHALL BE FABRICATED OF ASTM TYPE IV RETROREFLECTIVE SHEETING LEGENDS AND BACKGROUNDS,EXCEPT WHERE FLUORESCENT YELLOW-GREEN IS SPECIFIED,WHICH SHALL BE ASTM TYPE IX/XI.ALL BLACK LEGEND SHALL BE NON-REFLECTIVE BLACK.							
5)ALL STREET NAME SIGNS SHALL BE FABRICATED BY THE HOWARD COUNTY SIGN SHOP. CONTACT HOWARD COUNTY TRAFFIC AT 410-313-5752 FOR INFO & DETAILS REGARDING INSTALLTION.							
		dwg. SN-01					
SIGNING AND MARKING	CAPITAL PROJECT CONTRACT NO. K5066	SCALE NTS					
GENERAL NOTES AND PROPOSALS	OAKLAND MILLS COMPLETE STREETS PROJECT						

Ites, LLP Vland 21231	DRN: JHR CHK: JMM DATE: 05/22	BY	NO.		REVISION	DAT	GENERAL NO	OTES AN	MARKING ND PROPO	SALS			ID MILLS		te stree	IO. K5066 ITS PROJE d county		NTS SHEET 28 OF 50
	DES: JHR																	SCALE
]	dwg. SN-01
2. LISTED UN MIDUT SHA	OFFICE OF IP	AFFIC A	NU SAFEIIS	QUALIFIED I	-RODUCIS LIST	I (QFL).	5) ALL STREET TRAFFIC AT 41							GN SHOP. C	CONTACT HO	WARD COUN	TΥ	
STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS 2017 EDITION AND SUBSEQUENT REVISIONS AND SUPPLEMENTS. 2. LISTED ON MDOT SHA OFFICE OF TRAFFIC AND SAFETY'S QUALIFIED PRODUCTS LIST (QPL).							4) ALL SIGNS ON HOWARD COUNTY PLANS SHALL BE FABRICATED OF ASTM TYPE IV RETROREFLECTIVE SHEETING LEGENDS AND BACKGROUNDS, EXCEPT WHERE FLUORESCENT YELLOW-GREEN IS SPECIFIED, WHICH SHALL BE ASTM TYPE IX/XI. ALL BLACK LEGEND SHALL BE NON-REFLECTIVE BLACK.											
I. SHEETING SHALL MEE Standard specificat							3) ALL WARNING PEDESTRIAN SI) SIGNS (.GNS SHAL)N THE HOWA .L BE BLACK	RD COUNTY F ON FLUORES	PLANS SHA Scent yeli	LL BE BL _OW-GREE	ACK ON YE N AS NOTEI	LLOW, UNLE).	SS OTHERW	ISE NOTED.		
ALL NEW SIGNS ON THIS PROJECT SHALL BE FABRICATED FROM SHEETING WHICH MEETS ALL OF THE FOLLOWING REQUIREMENTS, UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS, OR AS DIRECTED BY THE ENGINEER:							2) ALL SIGN POSTS USED FOR TRAFFIC CONTROL SIGNS INSTALLED IN THE COUNTY RIGHT-OF-WAY SHALL BE MOUNTED ON A 2" GALVANIZED STEEL, PERFORATED ("QUICK PUNCH" TYPE), SQUARE TUBE POST (14 GAUGE) INSERTED INTO A 2-1/2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE SLEEVE (12 GAUGE) - 3' LONG. THE ANCHOR SHALL NOT EXTEND MORE THAN TWO "QUICK PUNCH" HOLES ABOVE GROUND LEVEL. A GALVANIZED STEEL POLE CAP SHALL BE MOUNTED ON TOP OF EACH POST.								DRE THAN II			
C) ON ALL OVERHEAD		NIMUM C	LEARANCE TO	D BOTTOM O	F DESIGN SIGN	1:20'-9".	COUNTY PLANS PRIOR TO THE	ARE APP	ROXIMATE AN	D MUST BE I	FIELD APP	ROVED BY	HOWARD C	OUNTY TRA	FFIC DIVIS	ION (410)313	3-5752	

3. THE FOLLOWING TYPES OF SHEETING SHALL BE USED FOR THE SPECIFIED SIGN CLASSIFICATIONS:

GENERAL NOTE: ALL COLORS SHALL BE RETROREFLECTIVE EXCEPT BLACK. BLACK TEXT, BORDERS, SYMBOLS OR ANY BLACK ELEMENTS OF ANY SIGN SHALL BE NON-REFLECTIVE. THIS APPLIES TO ALL MDOT SHA SIGNS AS SHOWN BELOW.

A) GUIDE, EXIT GORE, GENERAL INFORMATION, AND SERVICE SIGNS - FALL INTO TWO SUB CATEGORIES:

ALL RETROREFLECTIVE SHEETING ELEMENTS OF THESE SIGNS SHALL MEET OR EXCEED THE REQUIREMENTS FOR

(II). OVERHEAD STRUCTURE SIGNS AND OVERHEAD CANTILEVER SIGNS: ALL RETROREFLECTIVE SHEETING ELEMENTS OF ALL OVERHEAD SIGNS SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE XI(II). (THIS SECTION DOES NOT APPLY TO OVERHEAD SIGNALIZED INTERSECTION SIGNING; MAST ARM OR SPAN WIRE. FOLLOW THE REQUIREMENTS FOR THE RESPECTIVE SIGN CLASSIFICATION FOR SIGNAL SIGNING.)

B) WARNING SIGNS - RETROREFLECTIVE SHEETING FOR WARNING SIGNS (FLUORESCENT YELLOW AND FLUORESCENT ORANGE) SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE IX (9). REGULATORY MESSAGES WITHIN WARNING SIGNS SHALL FOLLOW THE REQUIREMENTS FOR REGULATORY SIGNS.

C) SCHOOL SIGNS - RETROREFLECTIVE SHEETING FOR SCHOOL SIGNS (FLUORESCENT YELLOW AND FLUORESCENT YELLOW-GREEN) SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE IX (9). REGULATORY MESSAGES WITHIN SCHOOL SIGNS SHALL FOLLOW THE REQUIREMENTS FOR REGULATORY SIGNS.

D) REGULATORY SIGNS - FALL INTO THREE SUBCATEGORIES:

(I). "RED" REGULATORY SIGNS: (SPECIFICALLY - STOP, YIELD, DO NOT ENTER AND WRONG WAY). ALL RETROREFLECTIVE SHEETING ELEMENTS OF THESE SIGNS SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE IX (9).

(II). ALL R7 AND R8 SERIES PARKING RELATED SIGNS AND THEIR SUPPLEMENTAL PANELS, NO TRESPASSING SIGNS, AND SIGNS DIRECTED AT PEDESTRIANS AND BICYCLISTS ONLY. ALL RETROREFLECTIVE SHEETING ELEMENTS OF THESE SIGNS SHALL MEET THE REQUIREMENTS FOR ASTM TYPE IV (4).

(III). ALL OTHER REGULATORY SIGNS - ALL RETROREFLECTIVE SHEETING ELEMENTS OF THESE SIGNS SHALL MEET ASTM TYPE IV (4) INCLUDING RED ELEMENTS. WARNING MESSAGES WITHIN REGULATORY SIGNS SHALL FOLLOW THE REQUIREMENTS FOR WARNING SIGNS.

E) ROUTE MARKERS (INDEPENDENT USE AND GUIDE SIGN USE)

INDEPENDENT USE: ALL RETROREFLECTIVE SHEETING ELEMENTS OF THESE SIGNS SHALL MEET BUT NOT TO EXCEED THE REQUIREMENTS FOR ASTM TYPE IV (4).

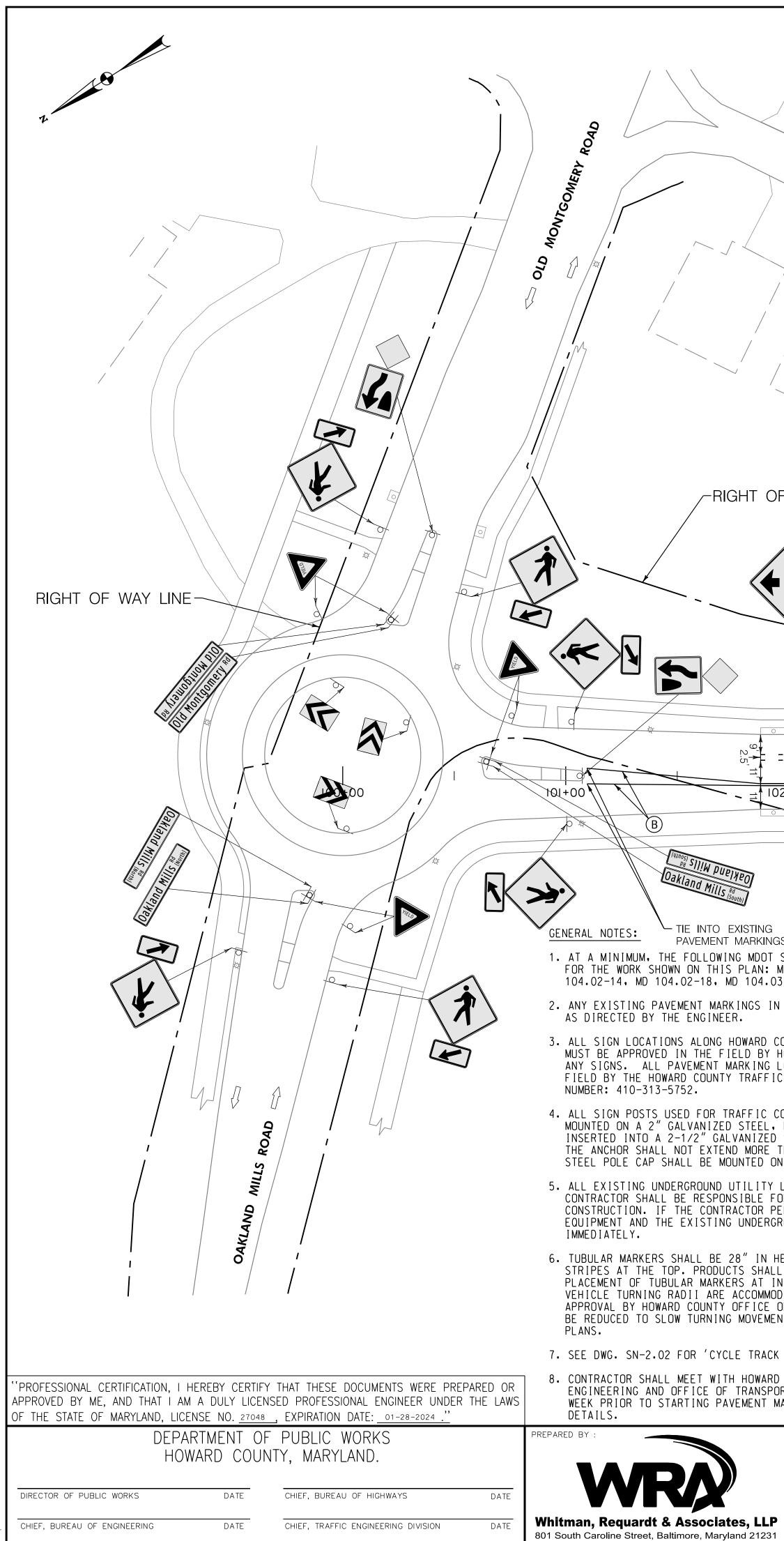
GUIDE SIGN USE: WHEN INCORPORATED IN THE BODY OF A GUIDE SIGN, ALL RETROREFLECTIVE SHEETING ELEMENTS OF THESE SIGNS SHALL MEET THE SHEETING REQUIREMENTS OF THE GUIDE SIGNS FOR WHICH THEY ARE TO BE APPLIED; GROUND MOUNT ASTM TYPE IX (9) OR OVERHEAD ASTM TYPE XI(II).

F) LOGOS AND / OR GRAPHICS - WITHIN SIGNS SHALL FOLLOW THE REQUIREMENTS FOR THE RESPECTIVE SIGN CLASSIFICATION UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS, OR AS DIRECTED BY THE ENGINEER.

G) SPECIFIC SERVICE (LOGO) SIGNING - ALL COPY, DIVIDER BORDERS, LOGOS AND ARROWS SHALL BE DEMOUNTABLE ALUMINUM OVERLAYS, .032 MINIMUM TO .063 MAXIMUM. ALL RETROREFLECTIVE SHEETING ELEMENTS OF THESE SIGNS SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE IX (9). DISTANCES ON DIRECTIONAL ARROWS WHEN SPECIFIED SHALL BE BLACK. THE OVERLAYS ARE TO BE APPLIED WITH .125 ALUMINUM POP RIVETS TO THE BODY OF

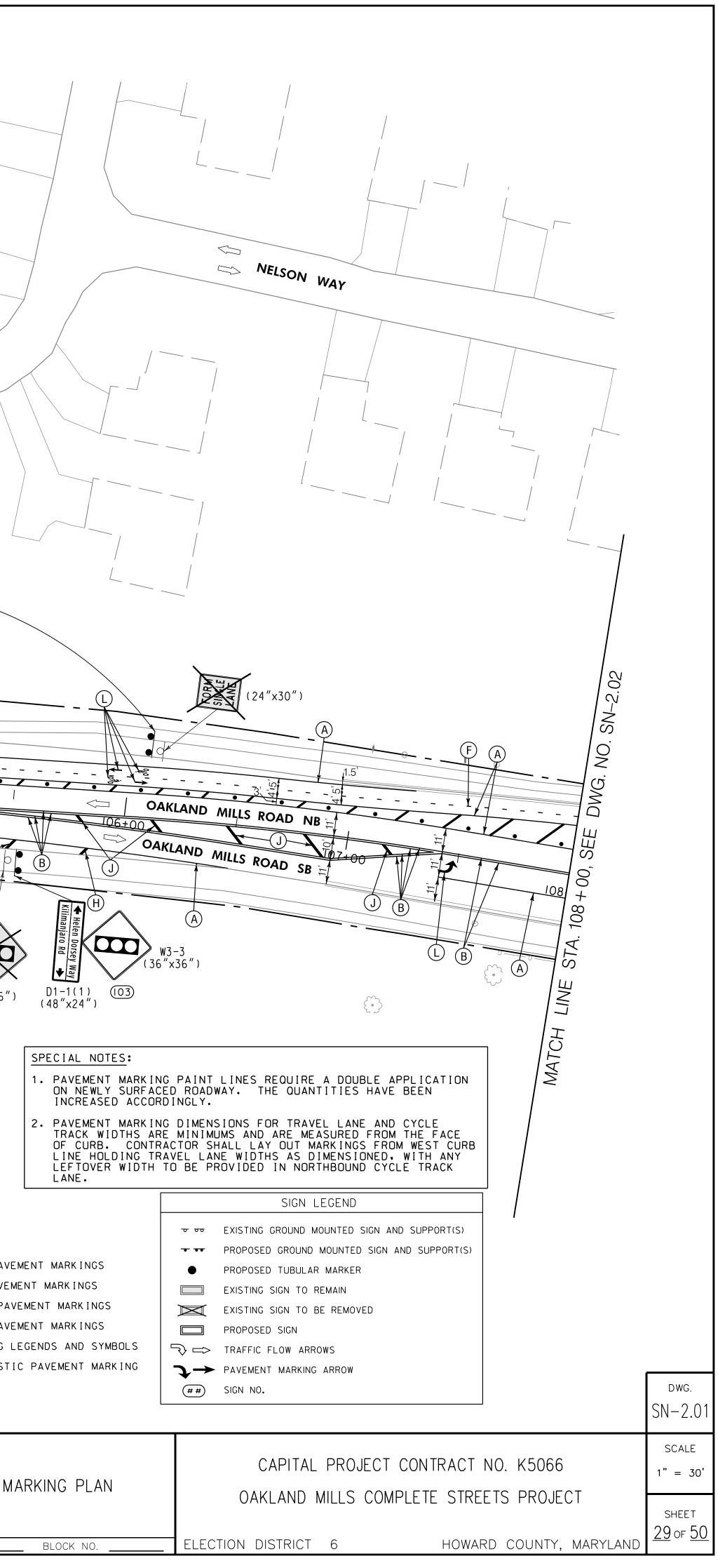
H) CIVIL DEFENSE SIGNS AND OTHER SIGNS - NOT SPECIFICALLY FALLING INTO ONE OF THE CATEGORIES ABOVE. SHALL FOLLOW THE GUIDELINES FOR THE SIGN CLASSIFICATION THAT MOST CLOSELY MATCHES THE COLOR(S) OF THE

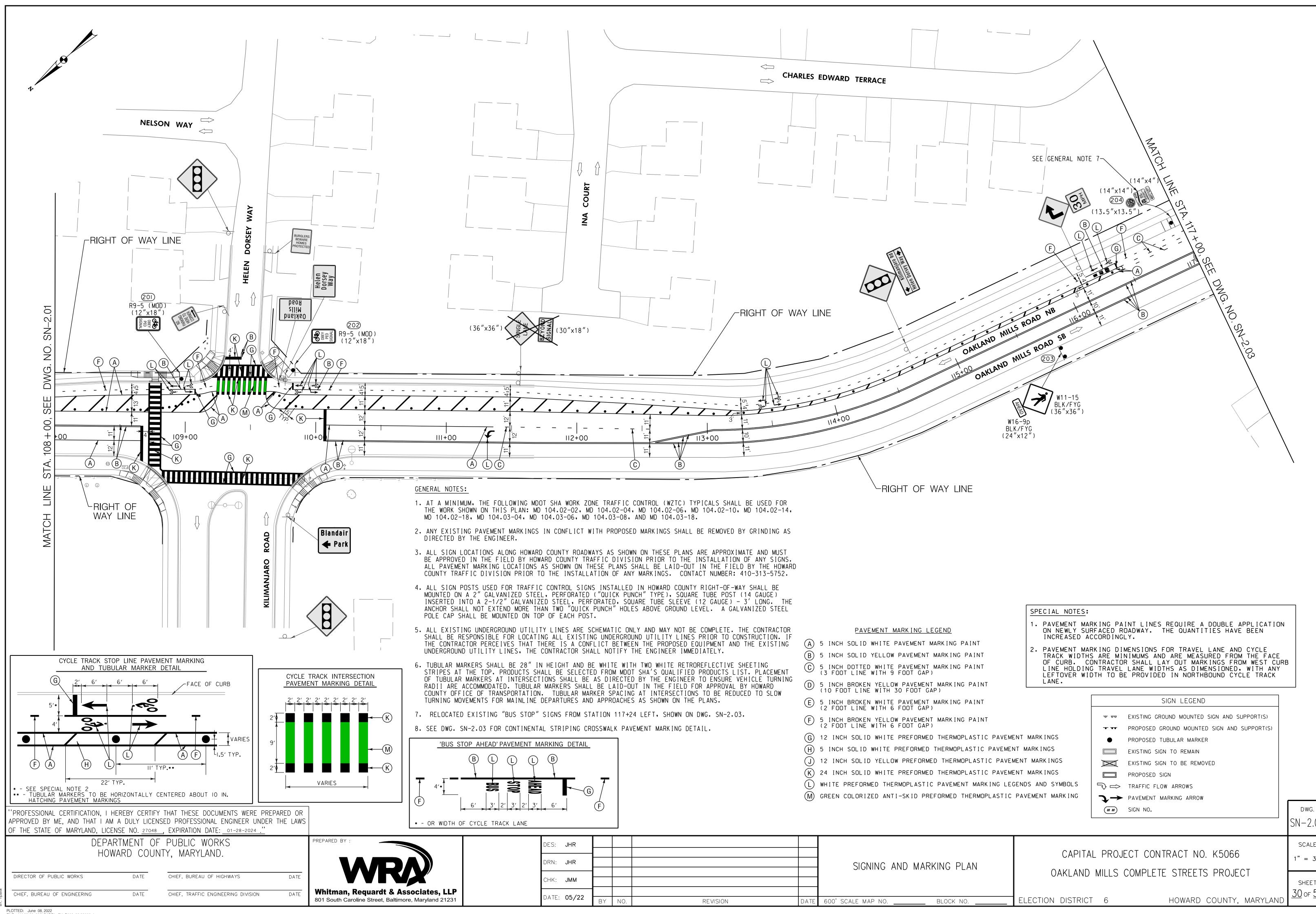
4. THE FOLLOWING MINIMUM THICKNESS SHALL BE USED FOR THE APPROPRIATE



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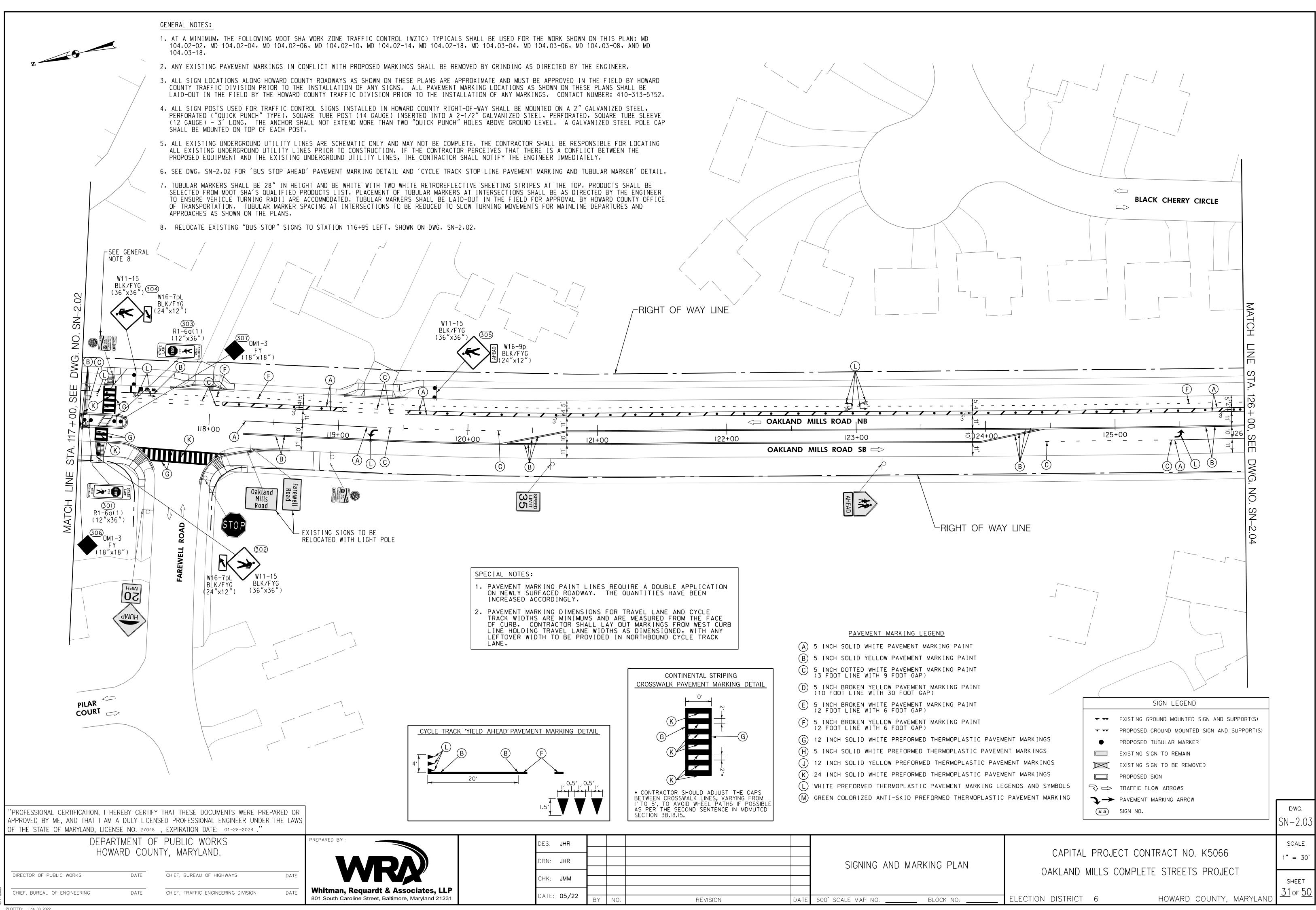
GHT OF WAY LINE						EXISTING SIGNS IGN SUPPORTS
		R3-17 (30"x24")			42")	
EXISTING MARKINGS NG MDOT SHA WORK ZONE TRAFFIC PLAN: MD 104.02-02, MD 104.0 MD 104.03-04, MD 104.03-06, ME KINGS IN CONFLICT WITH PROPOS	CONTROL (WZTC)2-04, MD 104.0) 104.03-08, AN) TYPICALS 1)2-06, MD 10 ND 104.03	SHALL BE USED 04.02-10, MD 3-18.	(H) OF WAY LINE	В	H (48"x12") (36"x36"
R. HOWARD COUNTY ROADWAYS AS SHO ELD BY HOWARD COUNTY TRAFFIC MARKING LOCATIONS AS SHOWN ON 'TRAFFIC DIVISION PRIOR TO TH RAFFIC CONTROL SIGNS INSTALLE O STEEL, PERFORATED ("QUICK PL VANIZED STEEL, PERFORATED, SC ID MORE THAN TWO "QUICK PUNCH" DUNTED ON TOP OF EACH POST. UTILITY LINES ARE SCHEMATIC O ISIBLE FOR LOCATING ALL EXISTING ACTOR PERCEIVES THAT THERE IS O UNDERGROUND UTILITY LINES, T 28" IN HEIGHT AND BE WHITE WI CTS SHALL BE SELECTED FROM MDC ISIS SHALL BE SELECTED FROM MDC ISIS STOP TRANSPORTATION, TL CONSTRUCTIONS SHALL BE ACCOMMODATED. TUBULAR MARKERS OFFICE OF TRANSPORTATION, TL MOVEMENTS FOR MAINLINE DEPAF LE TRACK STOP LINE PAVEMENT M H HOWARD COUNTY DPW TRAFFIC TRANSPORTATION AT LEAST ONE VEMENT MARKING TO CONFIRM	WN ON THESE PL DIVISION PRIOR THESE PLANS SH E INSTALLATION D IN HOWARD COU JNCH" TYPE), SC DUARE TUBE SLEE HOLES ABOVE G NLY AND MAY NO ING UNDERGROUND A CONFLICT BE THE CONTRACTOR TH TWO WHITE RI DT SHA'S QUALIF AS DIRECTED BY S SHALL BE LAID JBULAR MARKER S TURES AND APPR	ANS ARE APPI TO THE INS ALL BE LAID OF ANY MAR UNTY RIGHT- UARE TUBE P VE (12 GAUG ROUND LEVEL T BE COMPLE OUTILITY LI TWEEN THE P SHALL NOTIF SHALL NOTIF ETROREFLECT THE ENGINE OUT IN THE PACING AT I ROACHES AS S	ROXIMATE AND STALLATION OF D-OUT IN THE RKINGS. CONTACT OF-WAY SHALL BE POST (14 GAUGE) GE) - 3' LONG. A GALVANIZED TE. THE INES PRIOR TO PROPOSED TY THE ENGINEER IVE SHEETING IS LIST. ER TO ENSURE FIELD FOR INTERSECTIONS TO SHOWN ON THE	 (A) 5 INCH SOLID WH (B) 5 INCH SOLID YEI (C) 5 INCH DOTTED WI (3 FOOT LINE WI (D) 5 INCH BROKEN YI (10 FOOT LINE WI (E) 5 INCH BROKEN WI (2 FOOT LINE WI (E) 5 INCH BROKEN YI (2 FOOT LINE WI (G) 12 INCH SOLID WI (H) 5 INCH SOLID WI (H) 5 INCH SOLID WI (L) WHITE PREFORMED 	ITE PAY LLOW PA HITE PA TH 9 FO ELLOW PA TH 6 FO ELLOW PA TH 6 FO HITE PA ITE PA ELLOW PA HITE PA HITE PA HITE PA	AVEMENT MARKING PAINT OOT GAP) PAVEMENT MARKING PAINT
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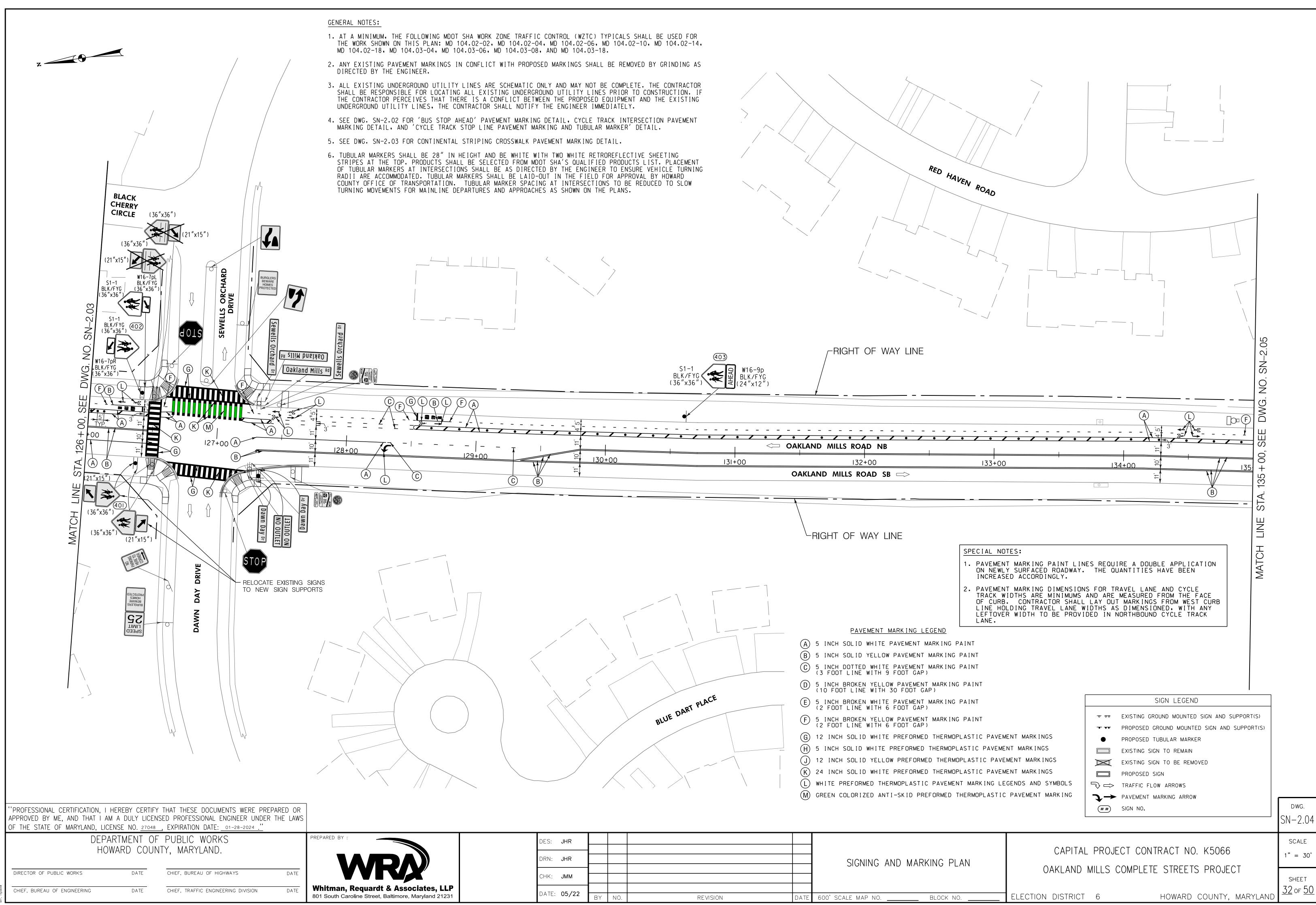
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II+00 II2+00 A C	III3+00 O. III3+00 III3+00 III3+00 III3+00 <th>-RIGHT OF WAY LINE</th> <th>"x12")</th> <th></th>	-RIGHT OF WAY LINE	"x12")	
MINIMUM. THE FOLLOWING MODT SHA WORK ZONE TRAFFIC WORK SHOWN ON THIS PLAN: MD 104.02-02, MD 104.02-04 4.02-18, MD 104.03-04, MD 104.03-06, MD 104.03-08. EXISTING PAVEMENT MARKINGS IN CONFLICT WITH PROPOS TED BY THE ENGINEER. SIGN LOCATIONS ALONG HOWARD COUNTY ROADWAYS AS SHO PPROVED IN THE FIELD BY HOWARD COUNTY TRAFFIC DIVIS AVEMENT MARKING LOCATIONS AS SHOWN ON THESE PLANS IN TRAFFIC DIVISION PRIOR TO THE INSTALLATION OF AN SIGN POSTS USED FOR TRAFFIC CONTROL SIGNS INSTALLE TED ON A 2" GALVANIZED STEEL, PERFORATED ("OUICK PI TRAFFIC DIVISION PRIOR TO THE INSTALLATION OF AN SIGN POSTS USED FOR TRAFFIC CONTROL SIGNS INSTALLE TED ON A 2" GALVANIZED STEEL, PERFORATED, SG R SHALL NOT EXTEND MORE THAN TWO "OUICK PUNCH" HOU CAP SHALL BE MOUNTED ON TOP OF EACH POST. EXISTING UNDERGROUND UTILITY LINES ARE SCHEMATIC O . BE RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGRO CONTRACTOR PERCEIVES THAT THERE IS A CONFLICT BETWING ROOUND UTILITY LINES, THE CONTRACTOR SHALL NOTIFY LAR MARKERS SHALL BE 28" IN HEIGHT AND BE WHITE WI PES AT THE TOP. PRODUCTS SHALL BE SELECTED FROM MOD IBULAR MARKERS AT INTERSECTIONS SHALL BE AS DIRECTED I ARE ACCOMMODATED. TUBULAR MARKERS SHALL BE AS DIRECTED I ARE ACCOMMODATED. TUBULAR MARKERS SHALL BE AS DIRECTED I ARE ACCOMMODATED. TUBULAR MARKERS SHALL BE LAID-O ING MOVEMENTS FOR MAINLINE DEPARTURES AND APPROACHED OCATED EXISTING "BUS STOP" SIGNS FROM STATION 117+ DWG. SN-2.03 FOR CONTINENTAL STRIPING CROSSWALK PA BUS STOP AHEAD'PAVEMENT MARKING DETAIL BUS STOP AHEAD'PAVEMENT MARKING DETAIL	4, MD 104.02-06, MD 104.02-10, MD 104.02-14, , AND MD 104.03-18. GED MARKINGS SHALL BE REMOVED BY GRINDING AS DWN ON THESE PLANS ARE APPROXIMATE AND MUST SION PRIOR TO THE INSTALLATION OF ANY SIGNS. SHALL BE LAID-OUT IN THE FIELD BY THE HOWARD NY MARKINGS. CONTACT NUMBER: 410-313-5752. ED IN HOWARD COUNTY RIGHT-OF-WAY SHALL BE UNCH" TYPE), SOUARE TUBE POST (14 GAUGE) QUARE TUBE SLEEVE (12 GAUGE) - 3' LONG. THE LES ABOVE GROUND LEVEL. A GALVANIZED STEEL DNLY AND MAY NOT BE COMPLETE. THE CONTRACTOR OUND UTILITY LINES PRIOR TO CONSTRUCTION. IF EEN THE PROPOSED EQUIPMENT AND THE EXISTING THE ENGINEER IMMEDIATELY. ITH TWO WHITE RETROREFLECTIVE SHEETING OT SHA'S QUALIFIED PRODUCTS LIST. PLACEMENT ED BY THE ENGINEER TO ENSURE VEHICLE TURNING OUT IN THE FIELD FOR APPROVAL BY HOWARD NG AT INTERSECTIONS TO BE REDUCED TO SLOW ES AS SHOWN ON THE PLANS. +24 LEFT, SHOWN ON DWG. SN-2.03.	PAVEMENT MARKING LECEND A 5 INCH SOLID WHITE PAVEMENT MARKING PAINT 5 INCH SOLID YELLOW PAVEMENT MARKING PAINT 5 INCH DOTTED WHITE PAVEMENT MARKING PAINT 5 INCH DOTTED WHITE PAVEMENT MARKING PAINT 5 INCH BROKEN YELLOW PAVEMENT MARKING PAINT 10 5 INCH BROKEN YELLOW PAVEMENT MARKING PAINT 10 5 INCH BROKEN WITH 30 FOOT GAP) E 5 INCH BROKEN YELLOW PAVEMENT MARKING PAINT 2 FOOT LINE WITH 6 FOOT GAP) 5 INCH BROKEN YELLOW PAVEMENT MARKING PAINT 2 FOOT LINE WITH 6 FOOT GAP) 6 12 INCH SOLID WHITE PREFORMED THERMOPLASTIC PAVEME 12 INCH SOLID WHITE PREFORMED THERMOPLASTIC PAVEME 12 INCH SOLID WHITE PREFORMED THERMOPLASTIC PAVEME 12 INCH SOLID WHITE PREFORMED THERMOPLASTIC PAVEME WHITE PREFORMED THERMOPLASTIC PAVEME 14 INCH SOLID WHITE PREFORMED THERMOPLASTIC PAVEME 15 WHITE PREFORMED THERMOPLASTIC PAVEME 16 5 INCH SOLID WHITE PREFORMED THERMOPLASTIC PAVEME 17 10 CH SOLID WHITE PREFORMED THERMOPLASTIC PAVEME 18 24 INCH SOLID WHITE PREFORMED THERMOPLASTIC PAVEME 19 0FREEN COLORIZED ANTI-SKID PREFORMED THERMOPLASTIC PAVEME 10 0FREEN COLORIZED ANTI-SKID PREFORMED THERMOPLASTIC	NT MARKINGS MENT MARKINGS ENT MARKINGS ENDS AND SYMBOLS PAVEMENT MARKING PAVEMENT MARKING PAVEMENT MARKING	
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LLP 21231 DATE: 05/22 BY NO.	REVISION	DATE 600' SCALE MAP NO BLOCK NO	ELECTION DISTRICT 6 HOWARD COUNTY, MARYLAND	<u>30</u> of



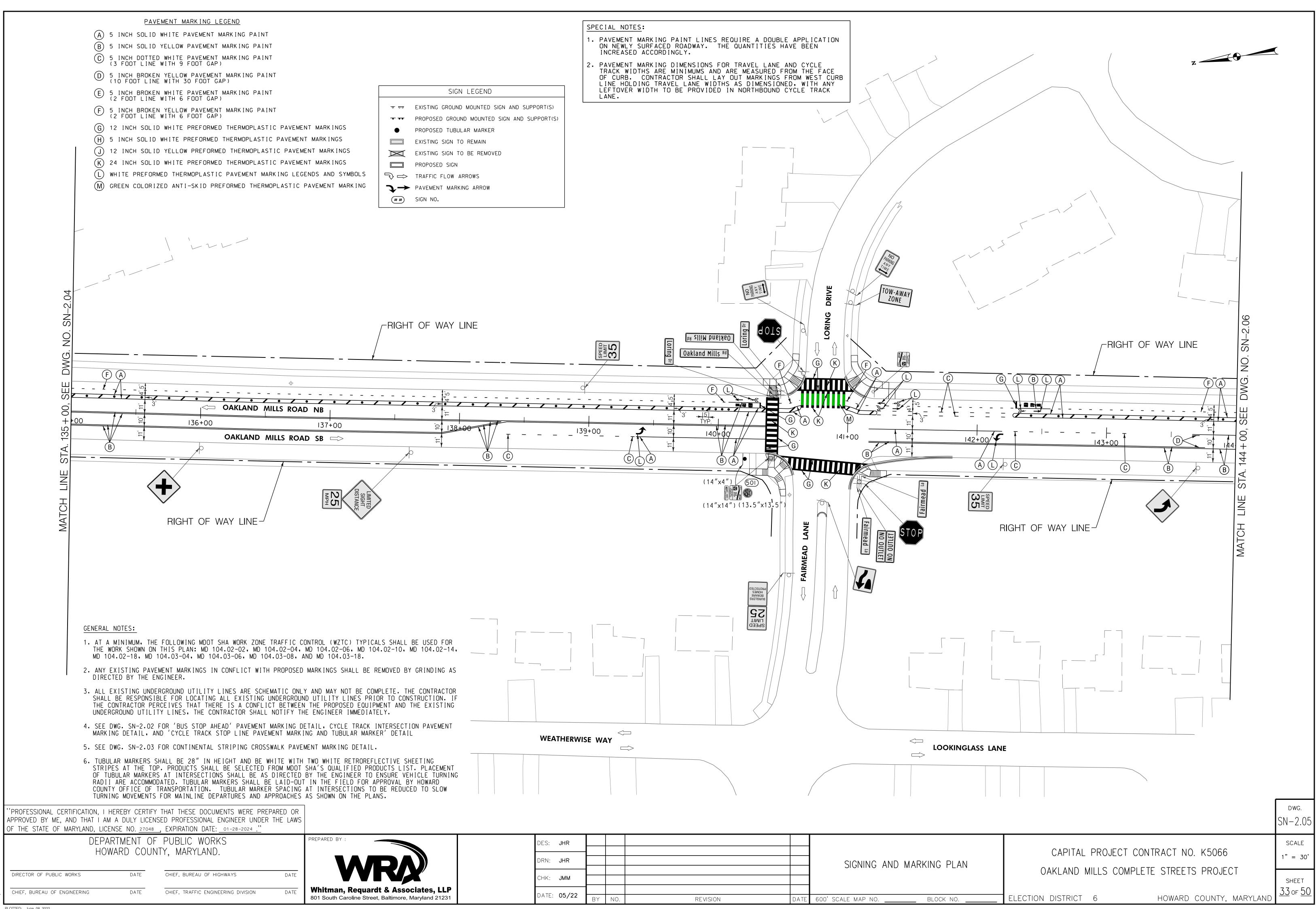
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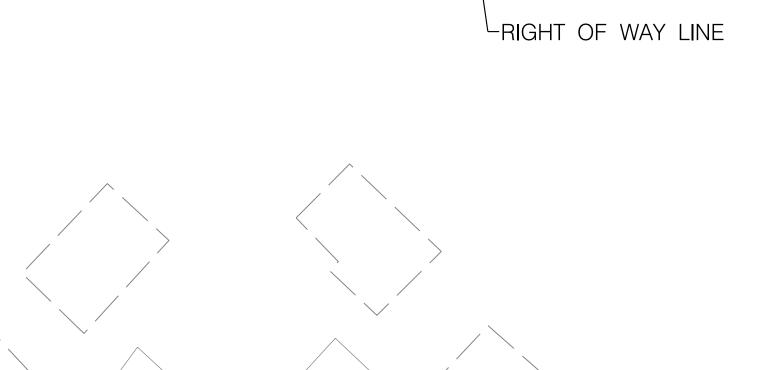


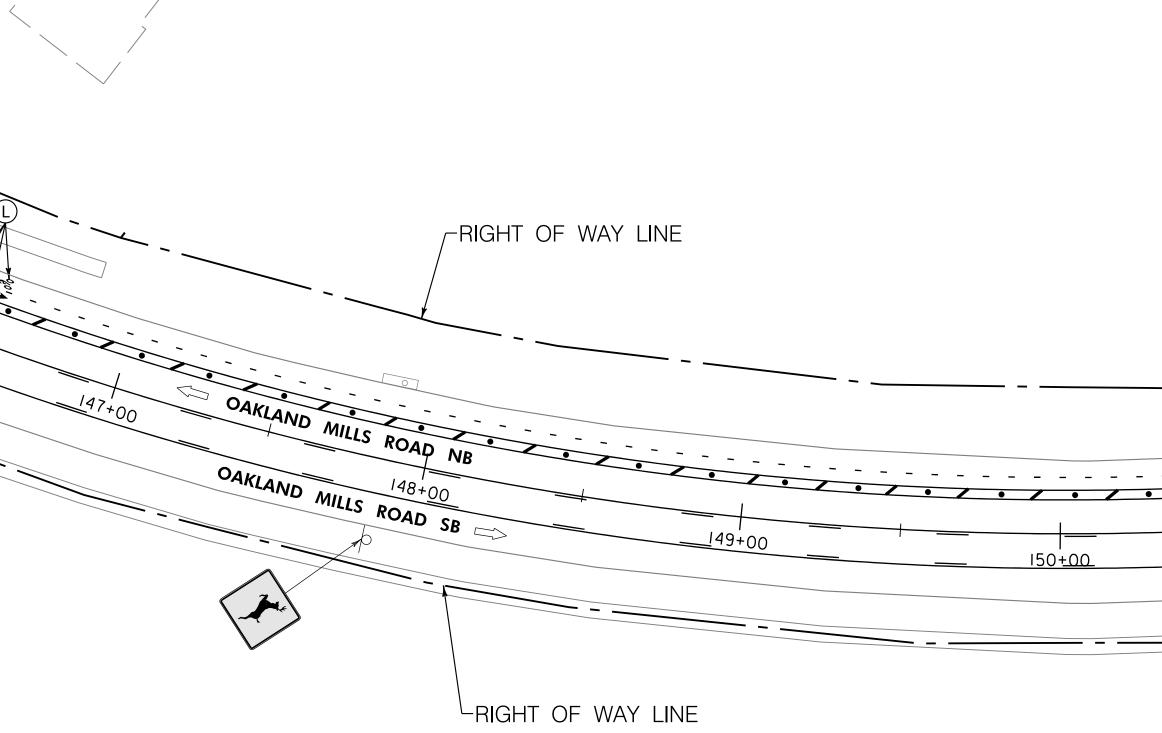
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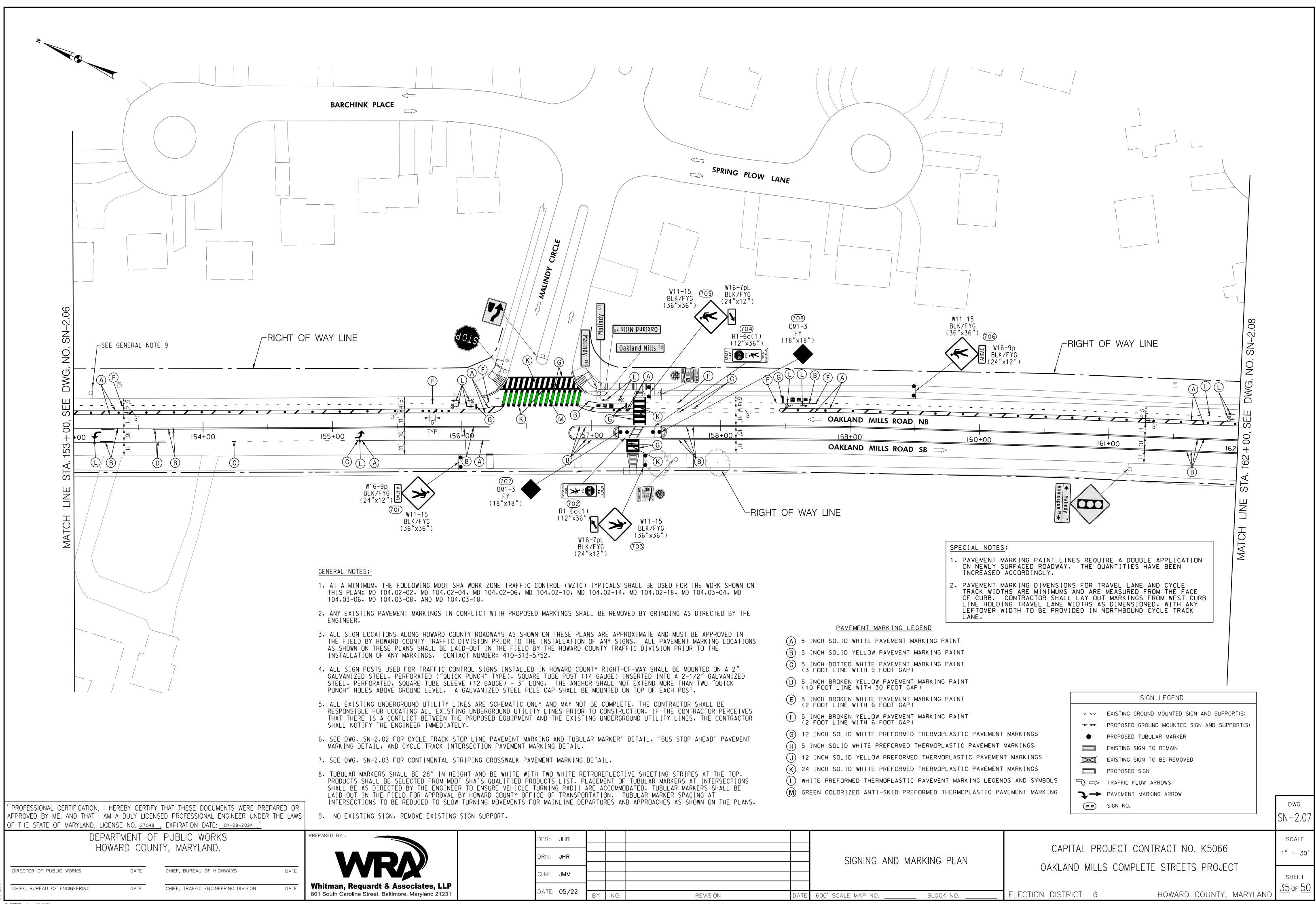
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TWO WAY LEFT TURN PAVEMENT MARKING DETAIL	RIGHT OF WAY LINE	$A \qquad U \qquad F \qquad C \qquad F \qquad C \qquad F \qquad F \qquad F \qquad F \qquad F \qquad F$	MATCH LINE STA. 153 +00, SEE DV
GENERAL NOTES: 1. AT A MINIMUM. THE FOLLOWING MDDT SHA WORK ZDNE TRAFFIC CONTROL (WZTC) TYPICALS SHALL BE USED FOR THE WORK SHOWN ON THIS PLAN: MD 104.02-04. MD 104.02-06. MD 104.02-06. MD 104.02-10. MD 104.02-18. MD 104.02-04. MD 104.03-06. AND MD 104.03-18. 2. ANY EXISTINC PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED MARKINGS SHALL BE REMOVED BY	RIGHT OF WAY LINE	PAVEMENT MARKING LEGEND A 5 INCH SOLID WHITE PAVEMENT MARKING PAINT	VG. NO. SN-2.07
SHELLING STRIPES AT THE TUP, PRUDUCTS SHALL BE SELECTED FRUM MDUT SHA S QUALTFIED	TS REQUIRE A DOUBLE APPLICATION THE QUANTITIES HAVE BEEN SFOR TRAVEL LANE AND CYCLE AND ARE MEASURED FROM THE FACE LAY OUT MARKINGS FROM WEST CURB DTHS AS DIMENSIONED, WITH ANY DED IN NORTHBOUND CYCLE TRACK	 (B) 5 INCH SOLID YELLOW PAVEMENT MARKING PAINT (C) 5 INCH DOTTED WHITE PAVEMENT MARKING PAINT (3 FOOT LINE WITH 9 FOOT GAP) (D) 5 INCH BROKEN YELLOW PAVEMENT MARKING PAINT (10 FOOT LINE WITH 30 FOOT GAP) (E) 5 INCH BROKEN WHITE PAVEMENT MARKING PAINT (2 FOOT LINE WITH 6 FOOT GAP) (F) 5 INCH BROKEN YELLOW PAVEMENT MARKING PAINT (2 FOOT LINE WITH 6 FOOT GAP) (G) 12 INCH SOLID WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS (J) 12 INCH SOLID WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS (J) 12 INCH SOLID WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS (K) 24 INCH SOLID WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS (L) WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS (M) GREEN COLORIZED ANTI-SKID PREFORMED THERMOPLASTIC PAVEMENT MARKING 	SIGN LEGEND TO BEXISTING GROUND MOUNTED SIGN AND SUPPORT(S) PROPOSED GROUND MOUNTED SIGN AND SUPPORT(S) PROPOSED TUBULAR MARKER PROPOSED TUBULAR MARKER EXISTING SIGN TO REMAIN EXISTING SIGN TO BE REMOVED PROPOSED SIGN TRAFFIC FLOW ARROWS PAVEMENT MARKING ARROW SIGN NO. DWG. SNL 2.06
OF THE STATE OF MARYLAND, LICENSE NO. 27048 , EXPIRATION DATE: 01-28-2024 ." DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND. DIRECTOR OF PUBLIC WORKS DATE CHIEF, BUREAU OF HIGHWAYS DATE CHIEF, TRAFFIC ENGINEERING DIVISION DATE CHIEF, TRAFFIC ENGINEERING DIVISION	BY NO.	SIGNING AND MARKING PLAN	SN-2.06 L PROJECT CONTRACT NO. K5066 MILLS COMPLETE STREETS PROJECT 6 HOWARD COUNTY, MARYLAND SHEET 34 of 50

	(3 FOOT LINE WITH 9 F
	D 5 INCH BROKEN YELLOW (10 FOOT LINE WITH 30
	E 5 INCH BROKEN WHITE P (2 FOOT LINE WITH 6 F
	(F) 5 INCH BROKEN YELLOW (2 FOOT LINE WITH 6 F
SPECIAL NOTES:	(\widehat{G}) 12 INCH SOLID WHITE P
1. PAVEMENT MARKING PAINT LINES REQUIRE A DOUBLE APPLICATION ON NEWLY SURFACED ROADWAY. THE QUANTITIES HAVE BEEN	$\overset{\smile}{(H)}$ 5 inch solid white pr
INCREASED ACCORDINGLY.	J 12 INCH SOLID YELLOW
2. PAVEMENT MARKING DIMENSIONS FOR TRAVEL LANE AND CYCLE TRACK WIDTHS ARE MINIMUMS AND ARE MEASURED FROM THE FACE	K 24 INCH SOLID WHITE P
OF CURB, CONTRACTOR SHALL LAY OUT MARKINGS FROM WEST CURB LINE HOLDING TRAVEL LANE WIDTHS AS DIMENSIONED, WITH ANY	(L) WHITE PREFORMED THERM
LEFTOVER WIDTH TO BE PROVIDED IN NORTHBOUND CYCLE TRACK LANE.	(M) GREEN COLORIZED ANTI-

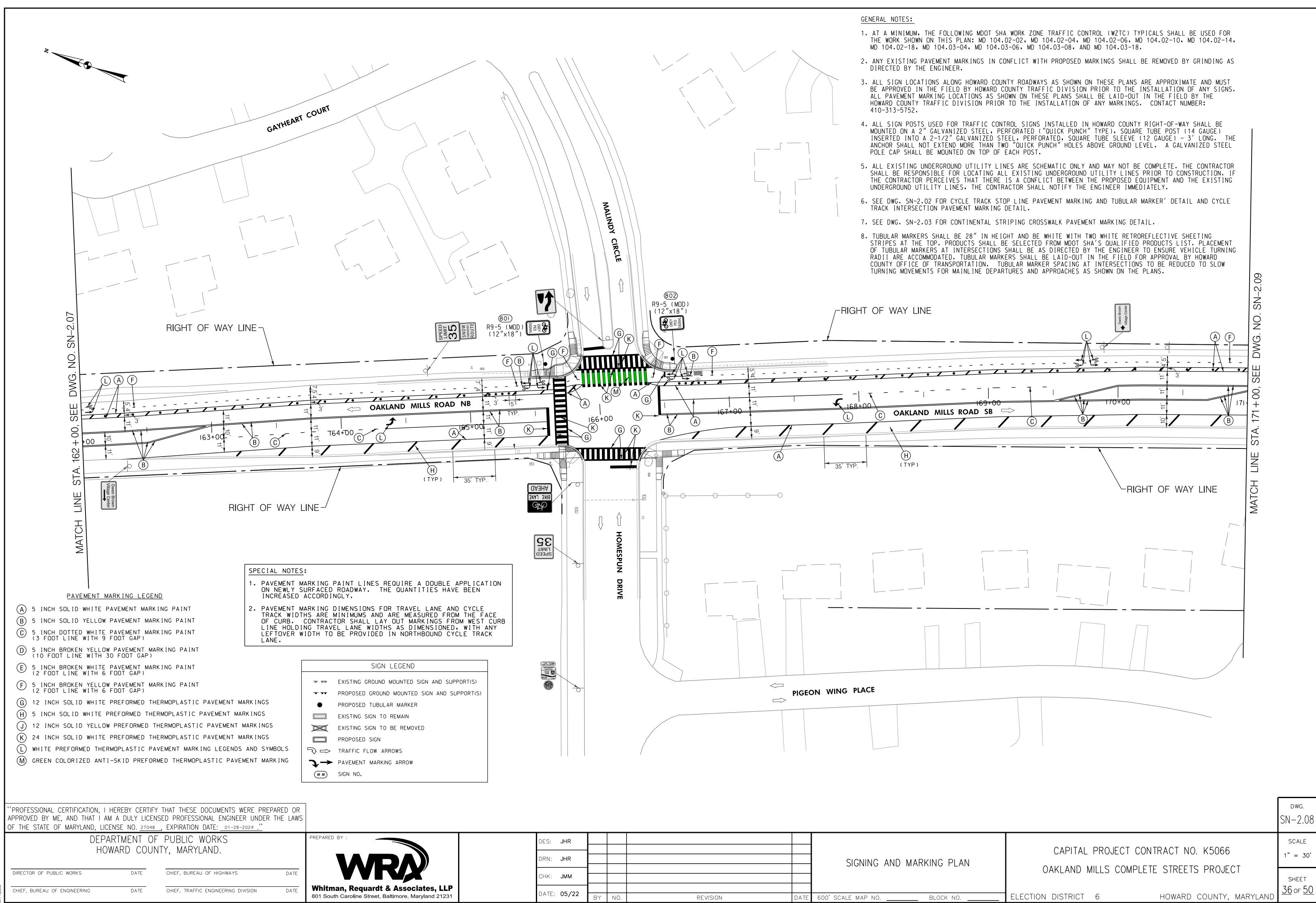






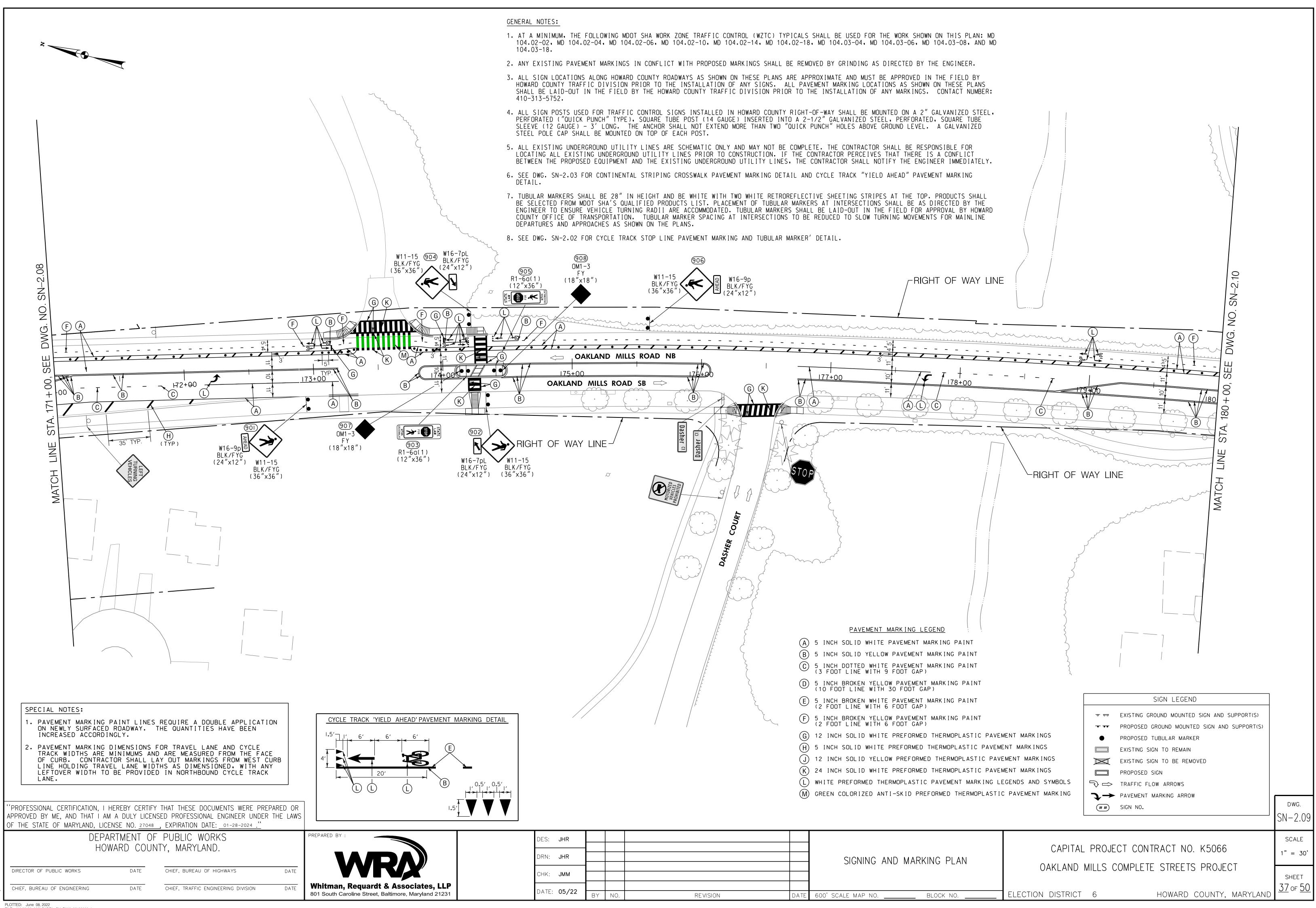
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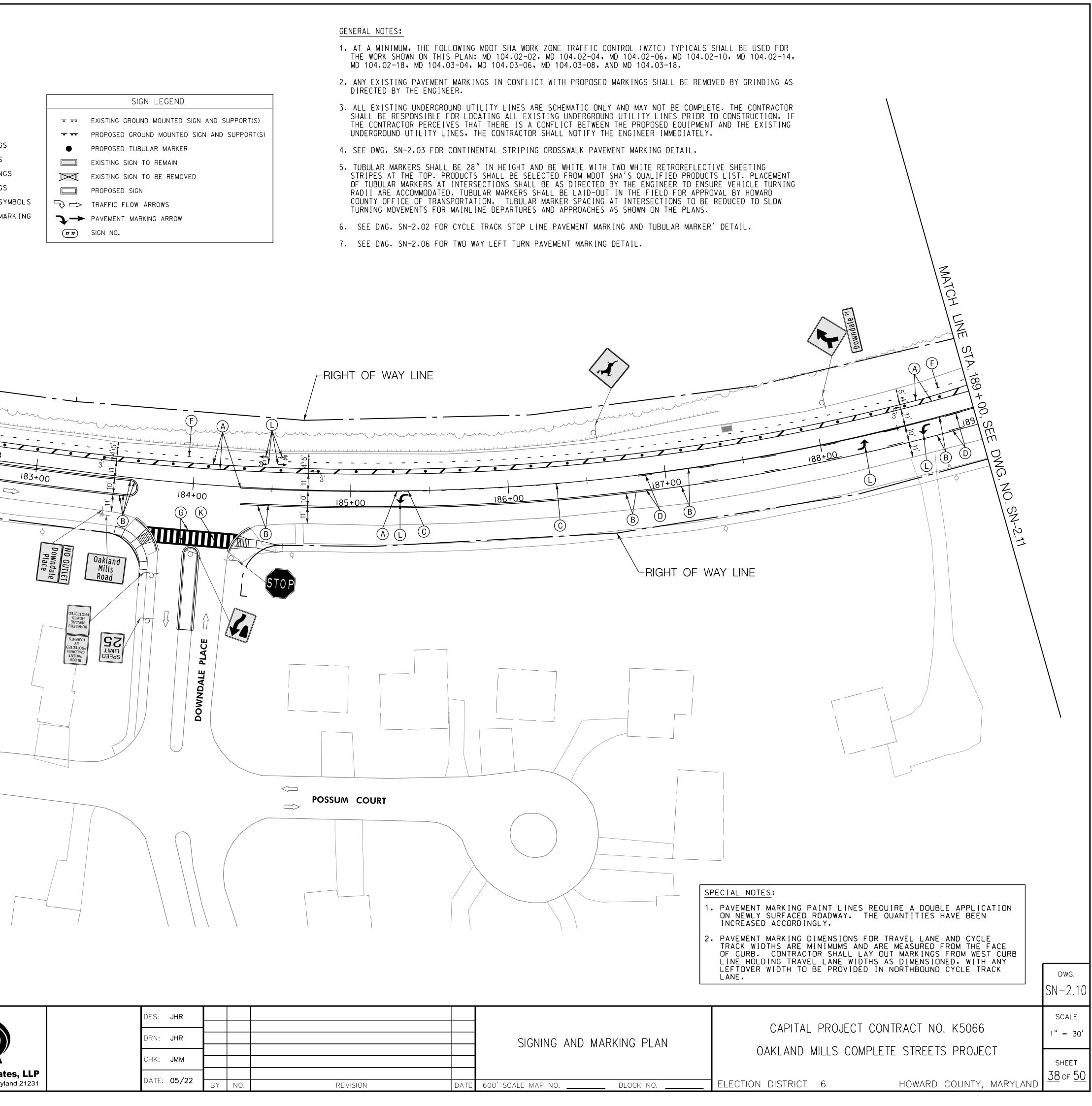
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	(2 FOOT LINE WITH	6 FOOT GAP) OW PAVEMENT MARKING PAINT	
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		DROWSY DAY WAY	
"PROFESSIONAL CERTIFICATION, I HEREBY CERT APPROVED BY ME, AND THAT I AM A DULY LIC	ENSED PROFESSIONAL ENGINEER UN	DER THE LAWS	
	OF PUBLIC WORKS	PREPARED BY :	
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DIRECTOR OF PUBLIC WORKS DATE	CHIEF, BUREAU OF HIGHWAYS	DATE Whitman Requards	
CHIEF, BUREAU OF ENGINEERING DATE	CHIEF, TRAFFIC ENGINEERING DIVISION	DATE Whitman, Requardt a 801 South Caroline Street, B	

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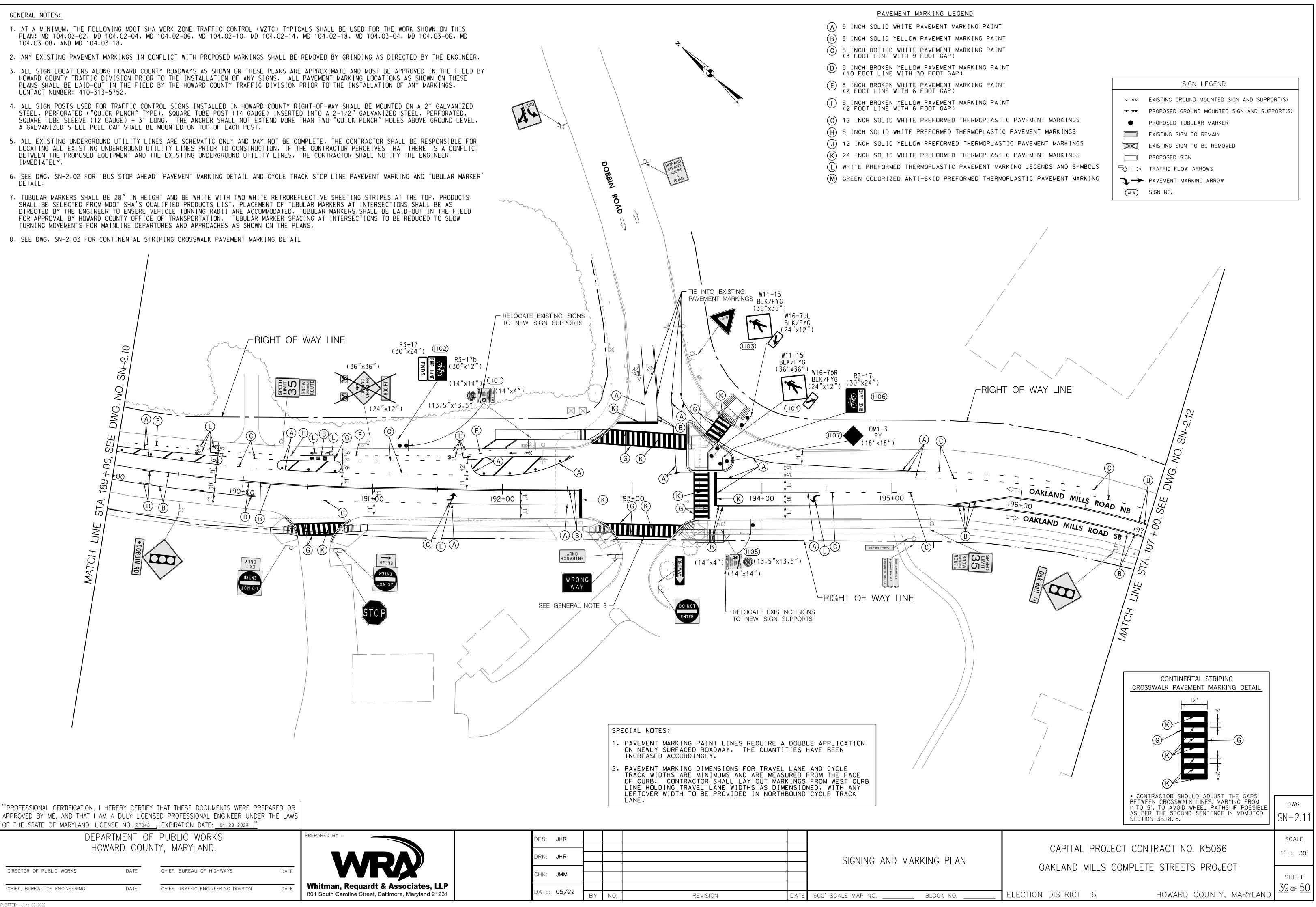
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		SIGN LEGEND	3. AI	II F'
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ASTIC PAVEMENT MARKING			ĨŬ	

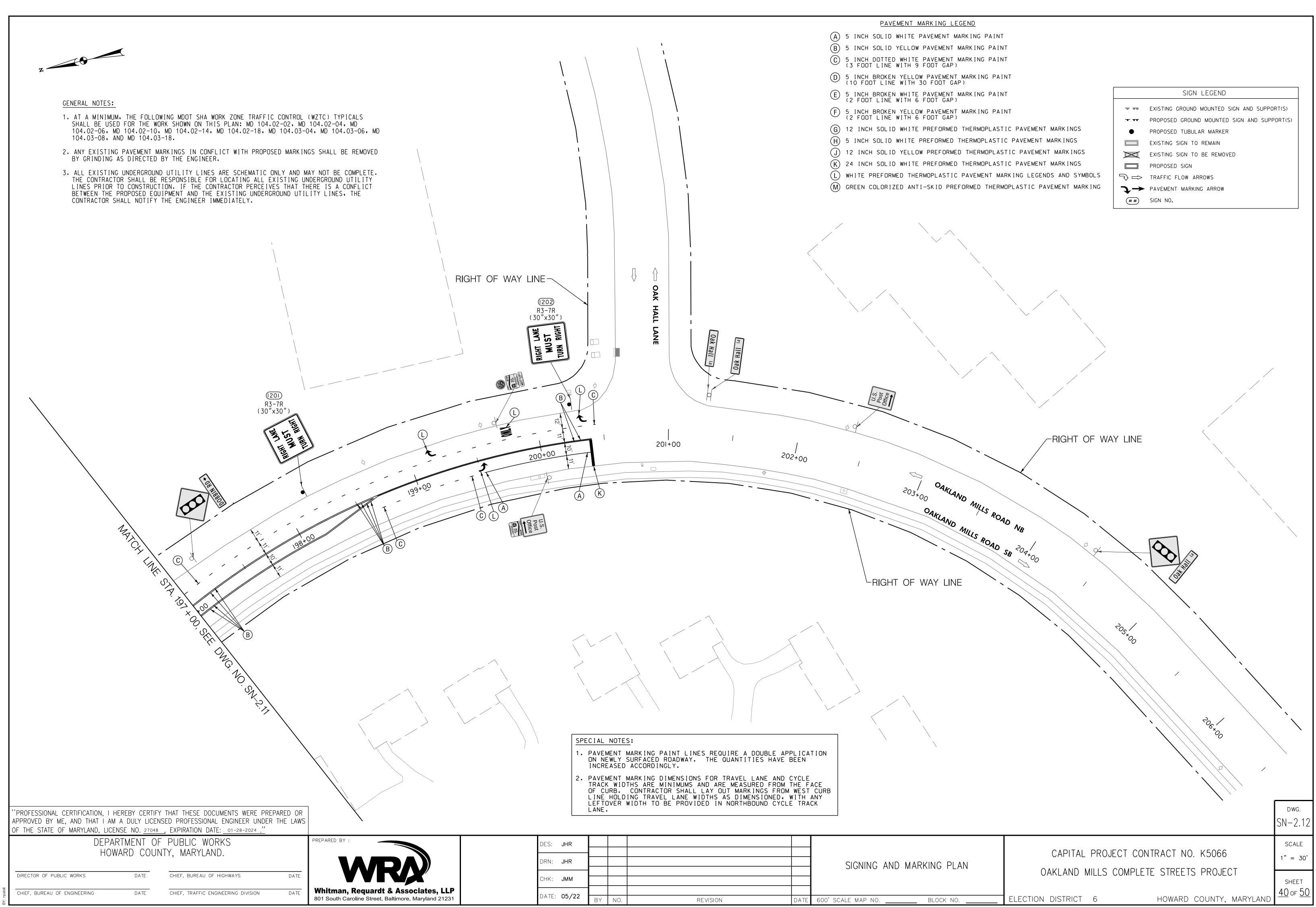
GENERAL NOTES:

- 104.03-08, AND MD 104.03-18.
- CONTACT NUMBER: 410-313-5752.
- A GALVANIZED STEEL POLE CAP SHALL BE MOUNTED ON TOP OF EACH POST.
- IMMEDIATELY.
- DETAIL.
- TURNING MOVEMENTS FOR MAINLINE DEPARTURES AND APPROACHES AS SHOWN ON THE PLANS.



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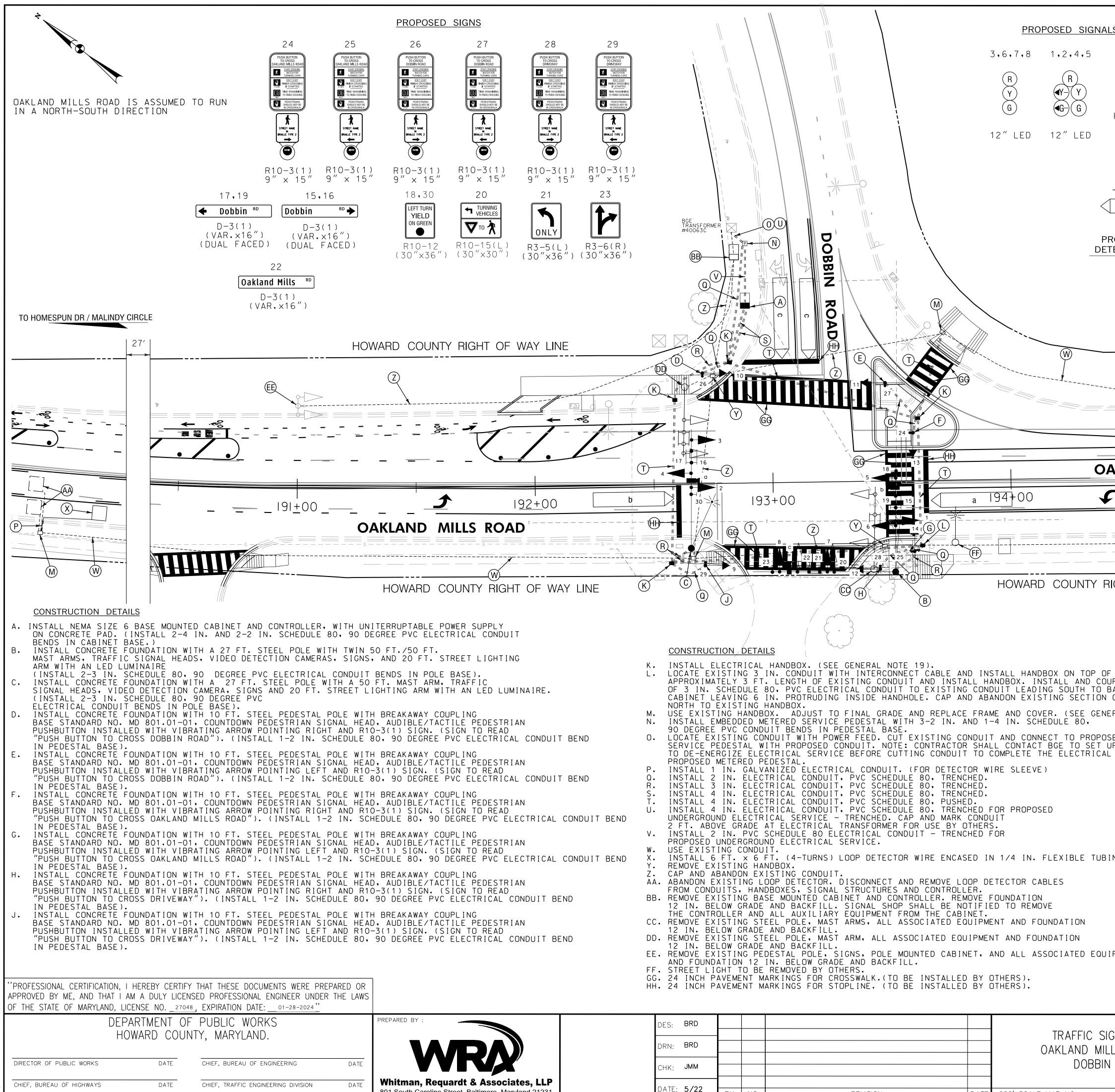
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	PROPOSED GROUND MOUNTED SIGN AND SUPPORT(S)
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	PROPOSED SIGN
$\neg \Rightarrow$	TRAFFIC FLOW ARROWS
ノー	PAVEMENT MARKING ARROW
(# #)	SIGN NO.

		SIGN NO.	REMARKS
		101	R3-17 (30"x24") & R3-17b (30"x12")
		102 103	RELOCATE EX. "ROUNDABOUT" (36"×36") & "ADVANCE ROADS" (54"×42") W3-3 (36"×36") & D1-1(1) (48"×24")
			CODE NO. 5
	SN-2.02	201	R9-5 (12"×18")
		202 203	R9-5 (12"×18") W11-15 BLK/FYG (36"×36") & W16-9p BLK/FYG (24"×12")
		204	RELOCATE EX. "BUS STOP" SIGNS (13.5"×13.5"), (14"×14"), & (14">
			CODE NO. 5
		301 302	R1-6a(1) (12"x36") W11-15 BLK/FYG (36"x36") & W16-7pL BLK/FYG (24"x12")
		303	R1-6a(1) (12"x36")
		304 305	W11-15 BLK/FYG (36"x36") & W16-7pL BLK/FYG (24"x12") W11-15 BLK/FYG (36"x36") & W16-9p BLK/FYG (24"x12")
		306 307	OM1-3 FY (18"×18") OM1-3 FY (18"×18")
		401 402	RELOCATE EX. "SCHOOL" SIGNS (2) (36"×36") & (2) (21"×15") (2) S1-1 BLK/FYG (36"×36"), W16-7pL BLK/FYG (24"×12"), W16-7pR
		403	S1-1 BLK/FYG (36"x36") & W16-9p BLK/FYG (24"x12") CODE NO. 5
	SN-2.05	501	RELOCATE EX. "BUS STOP" SIGNS (13.5"×13.5"), (14"×14"), & (14">
		701	W11-15 BLK/FYG (36"×36") & W16-9p BLK/FYG (24"×12")
		702 703	R1-6a(1) (12"x36") W11-15 BLK/FYG (36"x36") & W16-7pL BLK/FYG (24"x12")
		704 705	R1-6a(1) (12"x36") W11-15 BLK/FYG (36"x36") & W16-7pL BLK/FYG (24"x12")
		706	W11-15 BLK/FYG (36"×36") & W16-9p BLK/FYG (24"×12")
		707 708	OM1-3 FY (18"×18") OM1-3 FY (18"×18")
	SN-2.08	801	R9-5 (12"×18")
		802	R9-5 (12"x18")
		901	W11-15 BLK/FYG (36"x36") & W16-9p BLK/FYG (24"x12")
		902 903	W11-15 BLK/FYG (36"x36") & W16-7pL BLK/FYG (24"x12") R1-6a(1) (12"x36")
		904 905	W11-15 BLK/FYG (36"×36") & W16-7pL BLK/FYG (24"×12") R1-6a(1) (12"×36")
		906	W11-15 BLK/FYG (36"x36") & W16-9p BLK/FYG (24"x12")
		907 908	OM1-3 FY (18"×18") OM1-3 FY (18"×18")
	SN-2.11	1101	RELOCATE EX. "BUS STOP" (13.5"×13.5"), (14"×14"), & (14"×4")
		1102 1103	R3-17 (30"×24") & R3-17b (30"×12") W11-15 BLK/FYG (36"×36") & W16-7pL BLK/FYG (24"×12")
		1104	W11-15 BLK/FYG (36"×36") & W16-7pR BLK/FYG (24"×12")
		1105 1106	RELOCATE EX. "BUS STOP" (13.5"×13.5"), (14"×14"), & (14"×4") R3-17 (30"×24") & R9-3b (18"×12")
		1107	OM1-3 FY (18"×18") CODE NO. 5
	SN-2.12	1201	R3-7R (30"×30")
		1202	R3-7R (30"×30")
	PAVEMENT	MARK	I INGS
	SN-2.01 SN-2.02		
	SN-2.03 SN-2.04		
	SN-2.05		
	SN-2.06 SN-2.07		
	SN-2.08 SN-2.09		
	SN-2.10		
	SN-2.11 SN-2.12		
	TOTAL QUAI		
			NOTES:
			1. SQUARE PERFORATED TUBULA PERFORATED ("QUICK PUNCH" 2-1/2" GALVANIZED STEEL
			THE ANCHOR SHALL NOT EXTER THAT THESE DOCUMENTS WERE PREPARED OR TO PROFESSIONAL ENGINEER UNDER THE LAWS 2. SIGNING AND PAVEMENT MARK
OF THE STATE OF MARYLAND, L	ICENSE NO. 2	7048 ,	EXPIRATION DATE: 01-28-2024
			PUBLIC WORKS Y, MARYLAND.
		_	
DIRECTOR OF PUBLIC WORKS	DATE	_	CHIEF, BUREAU OF HIGHWAYS DATE Whitman, Requardt & Associa
CHIEF, BUREAU OF ENGINEERING PLOTTED: June 08, 2022	DATE		CHIEF, TRAFFIC ENGINEERING DIVISION DATE WINITMAN, Requarct & ASSOCIA 801 South Caroline Street, Baltimore, Mary

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				1				1	1		1
					2	3	4	5	6	7	3
")		EL SIGN POST & ANCHOR NOOD SIGN SUPPORTS 4"		7.5	1	42	24.75				
SQUARE PERFORATED	TUBULAR STE	EL SIGN POST & ANCHOR	BASE	17	2			18			
		EL SIGN POST & ANCHOR EL SIGN POST & ANCHOR			1						
		EL SIGN POST & ANCHOR EL SIGN POST & ANCHOR		11	2		3				
			DAGE		•			12.75			
SQUARE PERFORATED	TUBULAR STE	EL SIGN POST & ANCHOR	BASE	3	1						
		EL SIGN POST & ANCHOR		11	2						
		EL SIGN POST & ANCHOR EL SIGN POST & ANCHOR		3	2						
		EL SIGN POST & ANCHOR EL SIGN POST & ANCHOR			2						
SQUARE PERFORATED	TUBULAR STE	EL SIGN POST & ANCHOR	BASE	2.25	1						
		EL SIGN POST & ANCHOR			1		22.4				
		EL SIGN POST & ANCHOR EL SIGN POST & ANCHOR			1						
								11.2			
"×4") SQUARE PERFORATED	TUBULAR STE	EL SIGN POST & ANCHOR	BASE		1		3				
SQUARE PERFORATED	TUBULAR STE	EL SIGN POST & ANCHOR	BASE	11	2						
		EL SIGN POST & ANCHOR			1						
		EL SIGN POST & ANCHOR EL SIGN POST & ANCHOR			2						
		EL SIGN POST & ANCHOR EL SIGN POST & ANCHOR			2						
SQUARE PERFORATED	TUBULAR STE	EL SIGN POST & ANCHOR	BASE	2.25	1						
SQUARE PERFORATED	TUBULAR STE	EL SIGN POST & ANCHOR	BASE	2.25	1						
		EL SIGN POST & ANCHOR EL SIGN POST & ANCHOR			1						
		EL SIGN POST & ANCHOR EL SIGN POST & ANCHOR		11 11	2						
		EL SIGN POST & ANCHOR EL SIGN POST & ANCHOR		3	1						
		EL SIGN POST & ANCHOR			1						
		EL SIGN POST & ANCHOR EL SIGN POST & ANCHOR			2						
SQUARE PERFORATED	TUBULAR STE	EL SIGN POST & ANCHOR	BASE	2.25	1						
SQUARE PERFORATED	TUBULAR STE	EL SIGN POST & ANCHOR	BASE		1		3				
		EL SIGN POST & ANCHOR EL SIGN POST & ANCHOR			1						
		EL SIGN POST & ANCHOR		11	2		3				
		EL SIGN POST & ANCHOR EL SIGN POST & ANCHOR		6.5	1		5				
SQUARE PERFORATED	TUBULAR STE	EL SIGN POST & ANCHOR	BASE	2.25	1			11			
			DAGE	6.05							
		EL SIGN POST & ANCHOR EL SIGN POST & ANCHOR			1						
									3668	3906	13
									3714 3556	5428 5332	8 ² 32
									3384 3642	6042 5170	47
									3444 3278	4980 5760	16
									4088	4760	85
									3922 3842	4800 5524	44 28
									2756 390	3758	55
				277.75	61	42	59.15	52.95	390 39684	2010 57470	48
				295	65	45	65	55	43650	63225	53
AR STEEL SIGN SUPPORTS SHALL BE 2" GALVANIZED STEEL, H" TYPE), SOUARE TUBE POST (14 GAUGE) INSERTED INTO A						CODE NUMB	SHEET	ALUMINUM E PERFORAT	SIGNS	RIPTION	
• PERFORATED. SQUARE TUBE SLEEVE (12 GAUGE) - 3' LONG. TEND MORE THAN TWO "QUICK PUNCH" HOLES ABOVE GROUND EEL POLE CAP SHALL BE MOUNTED ON TOP OF EACH POST.						3 4	WOOD RELOC	SIGN SUPPO ATE EXISTIN	RT 4"×6" G GROUND M	IOUNTED SIG	GNS
RKING REMARKS ABBREVIATIONS FOR OWNERSHIP AND ITEM UNTY (HC) AND MDOT SHA (SHA).						5 6 7	5" WHI 5" YEL	E EXISTING E PAVEMEN LOW PAVEME	t marking i Ent marking	PAINT FAINT	
DES: JHR						8	12" WHI	TE PREFORM	ILU (HERMOI	LASTIC PA	VEMEN
										iing a	7 VI L
DRN: JHR										ex of	
ates, LLP											
DATE: 05/22	BY NO.	REVI	SION			D	ATE 60	O'SCALE	E MAP N	0	

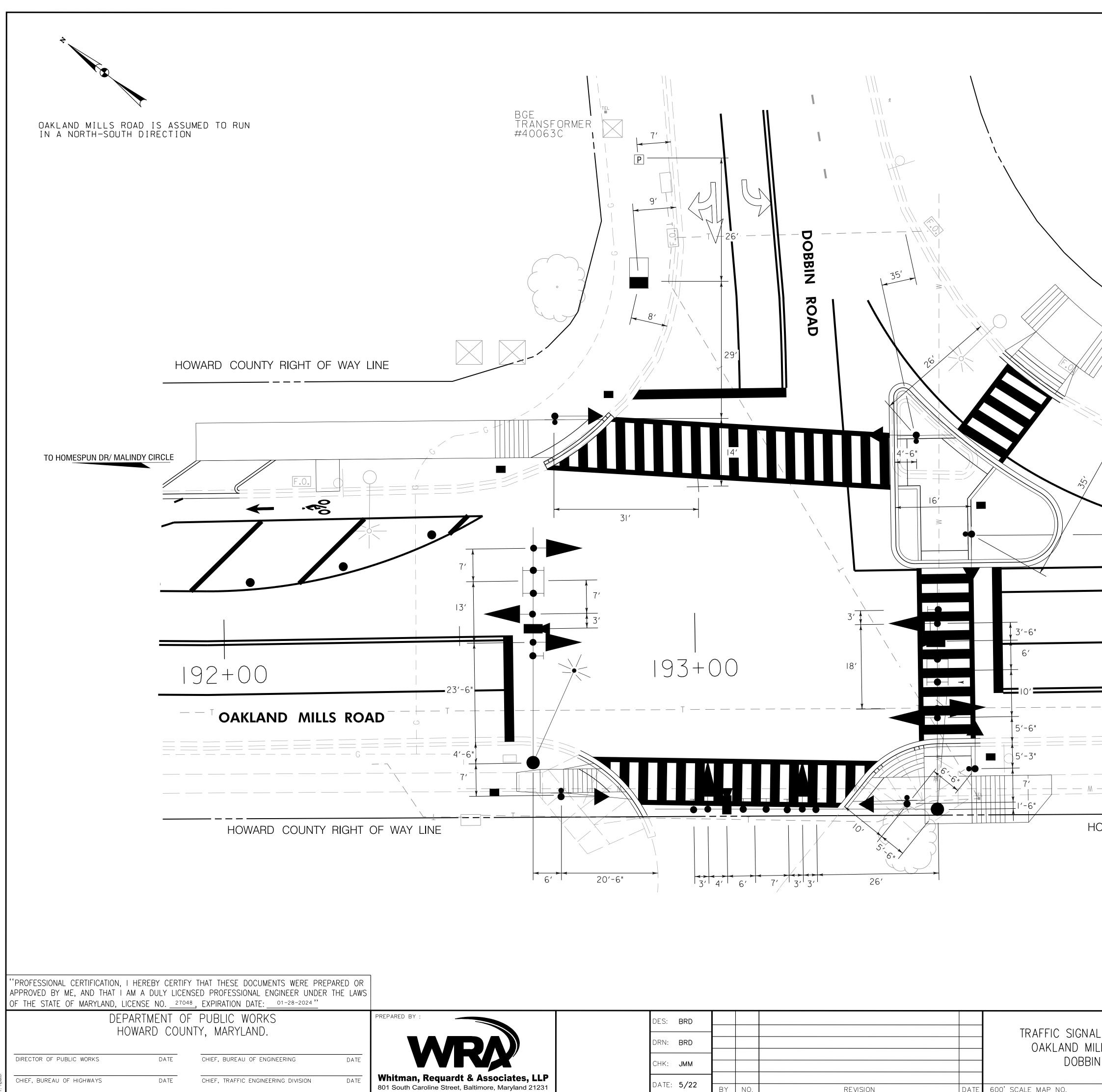
8	9	CODE NU	IMBERS *	12	13	4	15	16	17	18	19	20		
													_	
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													-	
138	53	41	E 4 0	48.5		27							-	
811 323			510 158	111.8 88	265 130	49 35								
470 462			349	109.1	468	41							-	
			312	113.6 112.5	375	43 37								
168 339 858 449 284 550			231	124.6	502	43							-	
oco 449			436 251	108 109.5	233 198	50 49								
284			105	68.5		40								
550			555 21	105.3 46.5	86	12								
1852	53	41	2928	1145.9		426								
5350	60	45 * COI	3230 De NUMBER		2490	470							<u></u>	
			UNIT SF	CODE NUN 9	IBERS		ORMED THEF	ESCRIPTION	PAVEMENT			UN Lf	F	
SUPPORT	S (SEE NOT	E I)	LF LF SF	10 2	24"	WHITE PREF	ORMED THE	IERMOPLAST RMOPLASTIC IPLASTIC PA	PAVEMENT	MARKING L	INES	LF LF IBOLS SF	F F	
SUPPOF	RTS		SF LF	13	GRE 28"	EN COLORIZ TUBULAR M	ED ANTI-SK IARKERS WIT	ID AREA PA Th TWO WHI	VEMENT MA TE RETRORE	RKING FLECTIVE S	HEETING ST	RIPES E	F	DWG.
ENT MAF	KING LINES		LF LF	15	REN	IOVAL OF E	XISTING PA	VEMENT MAR	KING LINES	, ANY WIDTH	+	LI		SN-11.01
						<u> </u>	. .			0	0.7	0		SCALE
	ARKIN					CAP	IIAL	чкоје	CIC(JNIRA	ACT N	0. K50	Ubb	NTS
QUA	NTITIE	S			C)AKLA	ND M	ILLS (COMPL	ETE S	STREE	rs pr	OJECT	
														sheet <u>41</u> of <u>50</u>
	BLOCK	NO		ELE	ECTION	DIST	RICT	6		H	OWARD	COUN	NTY, MARYLAND	<u> </u>



PLOTTED: June 08, 2022 FILE: N:\32189-009\CADD\pSG-P001_32189009.dgn

801 South Caroline Street, Baltimore, Mary

29 20			<u> </u>	PROPOSED SIGNALS	NEMA PHASING	FLASHING
28 29 PUSH BUTTON TO CROSS DRVEWAY			R Y G	8 1,2,4,5 9-14 (Y-Y) (G-G) COUNTDOWN PEDESTRIAN SIGNAL D 12" LED		Ø4 OPERATION
$\begin{array}{c} \hline \\ \hline $				VIDEO ZONE DETECTION a,b,c	NOTE: DUASES ASSOCIATED BY A DASHED I INF. WILL OD	Ø4 ALT.
R3-5(L) (30"x36") (30"x36")	BGE TRANSFORME #40063C	ER OU N DOBBIN R DOBBIN R R DOBBIN R R		PROPOSED VIDEO DETECTION CAMERA a,b,c	PHASES ASSOCIATED BY A DASHED LINE WILL OP PHASES ASSOCIATED BY A SOLID LINE WILL NOT	OPERATE CONCURRENTLY.
WAY LINE				HOWARD	COUNTY RIGHT OF WAY LINE	
		Y GG				
		-2			S ROAD	
<u>92+</u> 00 b				0	195+00	
F OF WAY LINE	K C Q		(H) $\langle \rangle \rangle \sim \langle \rangle$	ARD COUNTY RIGHT OF WAY LIN		
Γ	(U)		B			TO SNOWDEN RIVER PARKWAY
S INAIRE.	K. INSTALL E L. LOCATE EX APPROXIMA OF 3 IN. CABINET L	TELY 3 FT. LENGTH OF EXIST SCHEDULE 80, PVC ELECTRICA	INTERCONNECT CABLE AND INSTALL H ING CONDUIT AND INSTALL HANDBOX. L CONDUIT TO EXISTING CONDUIT LE	ANDBOX ON TOP OF CONDUIT. CUT AND INSTALL AND COUPLE 1 FT. +/- SECT ADING SOUTH TO BASE MOUNTED SIGNAL XISTING SECTION OF CONDUIT HEADING	ION	
AN _ CONDUIT BEND AN	M. USE EXIST N. INSTALL E 90 DEGREE O. LOCATE EX SERVICE P TO DE-ENE	ING HANDBOX. ADJUST TO FI MBEDDED METERED SERVICE PE VC CONDUIT BENDS IN PEDE SISTING CONDUIT WITH POWER PEDESTAL WITH PROPOSED COND RGIZE ELECTRICAL SERVICE B METERED PEDESTAL.	NAL GRADE AND REPLACE FRAME AND DESTAL WITH 3-2 IN. AND 1-4 IN. STAL BASE. FEED. CUT EXISTING CONDUIT AND COUIT. NOTE: CONTRACTOR SHALL CONT BEFORE CUTTING CONDUIT TO COMPLET	SCHEDULE 80, ONNECT TO PROPOSED METERED ACT BGE TO SET UP WORK WITH E THE ELECTRICAL CONNECTION TO	<u>general note</u> see general notes on dwg, sg-o3.	
CONDUIT BEND	R. INSTALL 3 S. INSTALL 4 T. INSTALL 4 U. INSTALL 4 UNDERGROU 2 FT. ABO V. INSTALL 2	2 IN. ELECTRICAL CONDUIT, P 5 IN. ELECTRICAL CONDUIT, P 6 IN. ELECTRICAL CONDUIT, P 7 IN. ELECTRICAL CONDUIT, P 8 IN. ELECTRICAL CONDUIT, P 9 IN. ELECTRICAL SERVICE - TR 9 OVE GRADE AT ELECTRICAL TRA 2 IN. PVC SCHEDULE 80 ELECT	YVC SCHEDULE 80, TRENCHED. YVC SCHEDULE 80, TRENCHED. YVC SCHEDULE 80, TRENCHED. YVC SCHEDULE 80, PUSHED. YVC SCHEDULE 80, TRENCHED FOR PRO RENCHED. CAP AND MARK CONDUIT INSFORMER FOR USE BY OTHERS. TRICAL CONDUIT - TRENCHED FOR		SPECIAL NOTE: CONTRACTOR SHALL COORDINATE WITH TH INSTALLATION OF PAVEMENT MARKINGS W OTHERS DEPENDING ON TIMING OF FINAL	WHICH MAY BE PHASED BY
AN ECTRICAL CONDUIT BEND	W. USE EXIST X. INSTALL 6 Y. REMOVE EX Z. CAP AND A	5 FT. x 6 FT. (4-TURNS) LOO (ISTING HANDBOX. ABANDON EXISTING CONDUIT.	DP DETECTOR WIRE ENCASED IN 1/4 I SCONNECT AND REMOVE LOOP DETECTOR		GEOMETRIC	
DNDUIT BEND	FROM COND	OUITS, HANDBOXES, SIGNAL ST (Isting base mounted cabine	RUCTURES AND CONTROLLER. T AND CONTROLLER. REMOVE FOUNDAT GNAL SHOP SHALL BE NOTIFIED TO R DUIPMENT FROM THE CABINET. RMS, ALL ASSOCIATED EQUIPMENT AND	ΊΩΝ		= PROPOSED
AN DNDUIT BEND	12 IN. BE DD. REMOVE EX 12 IN. BE EE. REMOVE EX AND FOUND FF. STREET LI GG. 24 INCH P	LOW GRADE AND BACKFILL. (ISTING STEEL POLE, MAST AR LOW GRADE AND BACKFILL. (ISTING PEDESTAL POLE, SIGN)ATION 12 IN. BELOW GRADE A GHT TO BE REMOVED BY OTHER PAVEMENT MARKINGS FOR CROSS	RM, ALL ASSOCIATED EQUIPMENT AND IS, POLE MOUNTED CABINET, AND ALL ND BACKFILL.	FOUNDATION ASSOCIATED EQUIPMENT	SD SD ST G G GA W W WA S S SE H E E E A A	ORM DRAIN AS MAIN ATER MAIN EWER MAIN ECTRIC CABLES RIAL CABLES ELEPHONE CABLES SG-01
tes, LLP	des: BRD drn: BRD chk: JMM			TRAFFIC SIGNAL PLAN OAKLAND MILLS ROAD AT DOBBIN ROAD	CAPITAL PROJECT CONTRACT NO. POAKLAND MILLS COMPLETE STREETS P	PROJECT SHEET
les, LLP land 21231	DATE: 5/22	BY NO.	REVISION DATE 600' SC	CALE MAP NO BLOCK NO	ELECTION DISTRICT 6 HOWARD CO	DUNTY, MARYLAND $42_{\text{OF}} 50$



PLOTTED: June 08, 2022 FILE: N:\32189-009\CADD\pSG-N001_32189009_DETAIL.dgn

ANSFORMER 0063C 9' T 26' 29' 29'	DOBBIN ROAD		HOWARD COUNTY RIGHT OF WAY LINE
$\frac{1}{31'}$		^{3'-6"} ^{6'} 10' ^{10'} 5'-6"	AKLAND MILLS ROAD
		HOWARD COUNTY RIGH	
DES: BRD Image: Constraint of the second secon	REVISION DATE	TRAFFIC SIGNAL DETAIL SHEET OAKLAND MILLS ROAD AT DOBBIN ROAD	CAPITAL PROJECT CONTRACT NO. K5066SCALE 1" = 10'OAKLAND MILLS COMPLETE STREETS PROJECTSHEET 43 OF 50ELECTION DISTRICT 6HOWARD COUNTY, MARYLAND

<u>GENERAL</u>

PROJECT DESCRIPTION

THIS PORTION OF THE PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC CONTROL SIGNAL AND INSTALLATION OF APS (ACCESSIBLE PEDESTRIAN SIGNALS) AND CPS (COUNTDOWN PEDESTRIAN SIGNALS) AT THE INTERSECTION OF OAKLAND MILLS ROAD AND DOBBIN ROAD IN HOWARD COUNTY, MARYLAND. OAKLAND MILLS ROAD IS ASSUMED TO RUN IN AN NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA FOUR-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH EXCLUSIVE/PERMISSIVE LEFT TURNS ON THE NORTHBOUND AND SOUTHBOUND OAKLAND MILLS APPROACHES WITH CONCURENT PEDESTRIAN MOVEMENTS ON THE EAST AND WEST LEGS OF THE INTERSECTION. THE DOBBIN ROAD APPROACH WILL OPERATE ALONE WITH PERMISSIVE MOVEMENT AND ACTUATED PEDESTRIAN MOVEMENT ACROSS THE SOUTH LEG OF THE INTERSECTION. INSTALL AN EIGHT PHASE, FULL TRAFFIC-ACTUATED, SOLID STATE DIGITAL CONTROLLER WITH INTERSECTION MONITOR, HARNESS AND BATTERY BACK-UP HOUSED IN A SEPARATE ATTACHED CABINET.

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE ENGINEER.

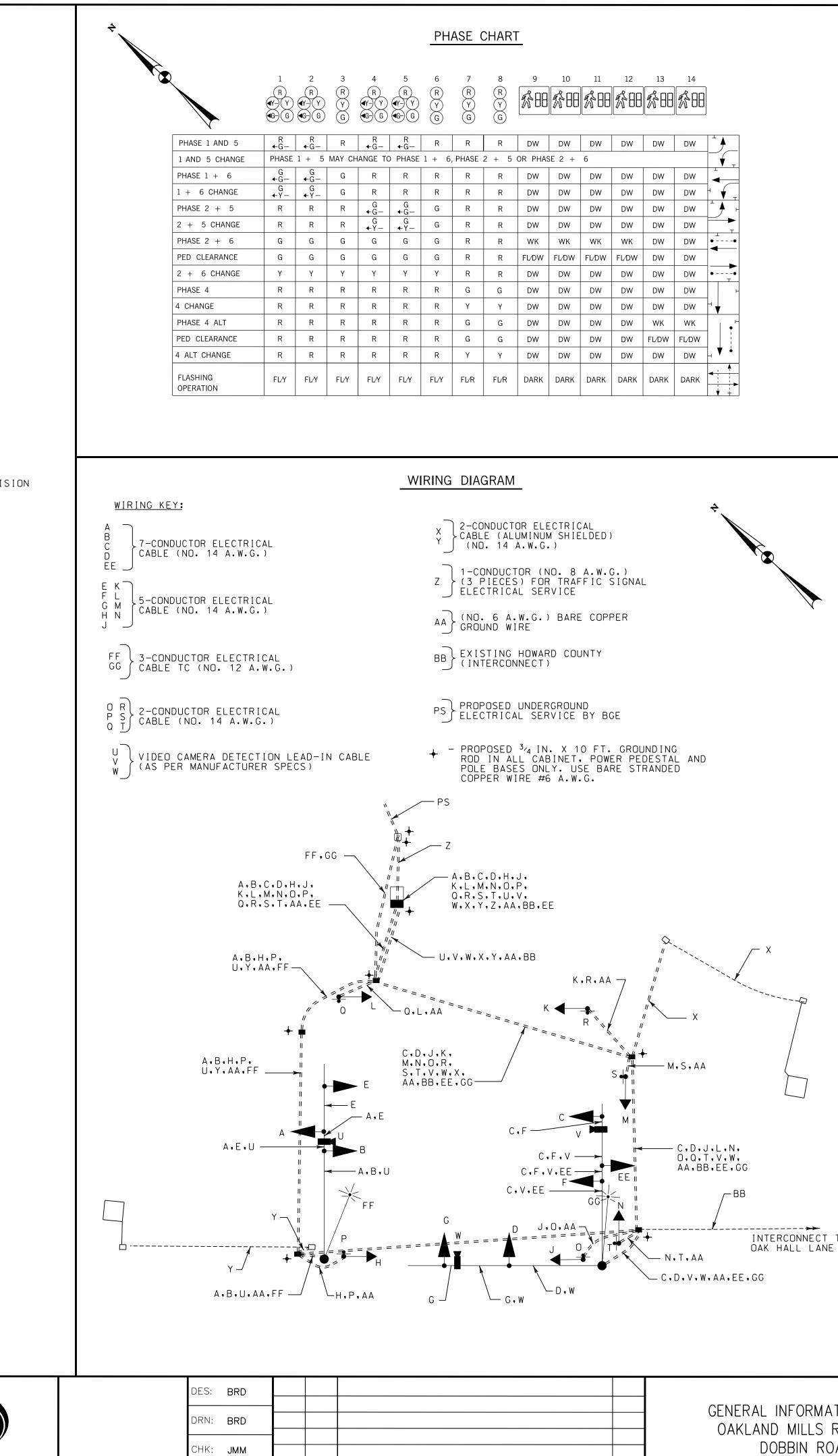
STANDARD NO. MD-104.03-02 (SHOULDER WORK/ MULTILANE UNDIV, EQUAL/LESS THAN 40 MPH) STANDARD NO. MD-104.02-14 (INTERSECTION FLAGGING OPERATION 2-LANE, 2-WAY EQUAL/LESS THAN 40 MPH) STANDARD NO. MD-104.03-04 (LEFT LANE CLOSURE/MULTILANE UNDIV. EQUAL/LESS THAN 40 MPH) STANDARD NO. MD-104.03-06 (RIGHT LANE CLOSURE/MULTILANE UNDIV. EQUAL/LESS THAN 40 MPH) STANDARD NO. MD-104.03-10 (INTER. FAR-LEFT LANE CLOSURE/MULTILANE UNDIV. EQUAL/LESS THAN 40 MPH) STANDARD NO. MD-104.03-12 (INTER. FAR-LEFT LANE CLOSURE/MULTILANE UNDIV. EQUAL/LESS THAN 40 MPH) STANDARD NO. MD-104.03-14 (INTER. FAR-RIGHT LANE CLOSURE/MULTILANE UNDIV. EQUAL/LESS THAN 40 MPH) STANDARD NO. MD-104.03-14 (INTER. FAR-SIDE CLOSURE/MULTILANE UNDIV. EQUAL/LESS THAN 40 MPH)

GENERAL NOTES

PROJECT CONTACTS

FINAL SIDEWALK O ROADWAY PROFILE AS SPECIFIED IN THE CONTRACTOR S	R CURB GRADE GRADE FOR OPE MD 816.03, MD HALL VERIFY U	S SHALL BE INSTALLED AT TH FOR CLOSED SECTIONS, HIGHE N SECTIONS, TO MEET CLEARA 818.01, MD 818.02, MD 818 LTIMATE GRADES PRIOR TO TH	ST 410-313-: NCES •04•	OUNTY TRAFFIC ENGINEERING E 2430	DIVIS
INSTALLING PROPO SHOULD ARISE THE 3. VIDEO CAMERA LOC HOWARD COUNTY TR	HALL VERIFY A SED SIGNAL EQ CONTRACTOR S ATION / ALIGN AFFIC ENGINE	LL UNDERGROUND UTILITIES P UIPMENT. IF ANY UTILITY C HALL CONTACT THE PROJECT E ING SHALL BE COORDINATED W ER.	ONFLICTS NGINEER. ITH THE		
PRIOR TO INSTALL 5. ALL EXISTING TRA PROPERTY OF THE 6. THE CONTRACTOR S CABLES TO THE AP	ATION. FFIC SIGNAL E SIGNAL CONTRA HALL BE RESPO PROPRIATE TER	LL PROPOSED POLE AND CABIN QUIPMENT REMOVED SHALL BEC CTOR UPON COMPLETION OF TH NSIBLE FOR TERMINATING ALL MINALS AND PROPERLY LABEL	OME THE E NEW SIGNAL. SIGNAL		
PERSON IN A WHEE LANDING AREA WIT 9. THE 10' SEPARATI PUSHBUTTON TO FA	TO BE LOCATED LCHAIR REACHI H A CROSS SLO ON BETWEEN PU CE OF PUSHBUT	SED SIGNAL CABLE. SO THAT THEY CAN BE ACTIV NG LESS THAN 18" FROM A 60 PE OF LESS THAN OR EQUAL T SHBUTTONS IS TO BE MEASURE TON, NOT CENTER TO CENTER ARALLEL TO THE CROSSING FO	″ × 60″ LEVEL O 2%. D FROM FACE O OF POLE.		
THEY ARE INTENDE 11.LOCATION OF ACCE LOCATION REQUIRE OF THE NCHRP PUB PRACTICE". IF NO LOCATIONS UNTIL	D. SSIBLE PEDEST MENTS OF MUTC LICATION, "AC T MET, THE CO A DESIGN WAIV	RIAN SIGNAL PUSHBUTTONS MU D SEC. 4E.08 AND 4E.10 AND CESSIBLE PEDESTRIAN SIGNAL NTRACTOR IS TO STOP WORK O ER IS OBTAINED, APPROVED B	ST MEET FIG. 4E-3 AN S: GUIDE TO B N PUSHBUTTON	EST	
PLANS, OTHER THA MARKINGS SHALL B 13.INSTALL CONDUIT	NT MARKINGS R N THOSE DETAI E INSTALLED I AND LOOP DETE INGS. REFER T	EFER TO THE PAVEMENT MARKI LED ON THE PLAN. ALL PAVE N ACCORDANCE WITH MDOT MSH CTORS PRIOR TO THE INSTALL O SIGNING AND PAVEMENT MAR	MENT A STANDARDS. ATION		
14.VERIFY PROPOSED 15.ALL HANDHOLES SH 16.REFER TO ROADWAY 17.THE CONTRACTOR S CAUSED BY THE IN 18.THE SIGNAL CONTR	GEOMETRICS PR ALL BE INSTAL PLANS FOR SI HALL REPAIR A STALLATION OF ACTOR SHALL D	DEWALK RAMPS DETAILS. NY DAMAGE TO EXISTING SIDE SIGNAL EQUIPMENT. ETERMINE IF ANY WORK BY OT	WALKS HER		
CONTRACTORS OF T	PLETE. THE SI HIS WORK. ANHOLES SHALL	ETED UNTIL INSTALLATION OF GNAL CONTRACTOR SHALL NOTI HAVE CONCRETE COLLARS EXC	FY OTHER	ALLED WITHIN SIDEWALK OR	
		APS MES	SAGES		
TYPICAL MESSA	GES FOR ACCESS	IBLE PED SIGNALS			
STREETS AT	90 DEGREES	IN ROAD - SOUTH LEG			
	WAIT TO CROSS APID TICK	OAKLAND MILLS AT DOBBIN, WA	IT." *		
	AND DRIVEWAY 90 DEGREES	- WEST LEG			
WAIT: "		DRIVEWAY AT OAKLAND MILLS,	WAIT." *		
	ND OAKLAND MIL 90 DEGREES	LS ROAD - EAST LEG			
	WAIT TO CROSS APID TICK	DOBBIN AT OAKLAND MILLS, CR	OSSWALK ANGLES	S RIGHT, WAIT." **	
* MESSAGE U ** MESSAGE US	SED IF DISTANC ED IF CROSSWAL	E FROM NEAREST PUSHBUTTON F K DIVERGES FROM OR CONVERGE	OR PERPENDICUL S WITH PARALLE	AR CROSSING IS < 10' L TRAFFIC	
NOTE: MESSAGE	S FOR INTERSEC	TION CONFIGURATIONS, VARYIN HOWARD COUNTY TRAFFIC ENGI	G FROM THE ABC	DVE	
APPROVED BY ME, AND THAT I A	M A DULY LICENS	THAT THESE DOCUMENTS WERE F SED PROFESSIONAL ENGINEER UNI , EXPIRATION DATE:01-28-2024 '	DER THE LAWS		
DEPA	ARTMENT OF	PUBLIC WORKS TY, MARYLAND.		PREPARED BY :	
DIRECTOR OF PUBLIC WORKS	DATE	CHIEF, BUREAU OF ENGINEERING	DATE		Y
CHIEF, BUREAU OF HIGHWAYS	DATE	CHIEF, TRAFFIC ENGINEERING DIVISION	DATE	Whitman, Requardt & Assoc 801 South Caroline Street, Baltimore, M	

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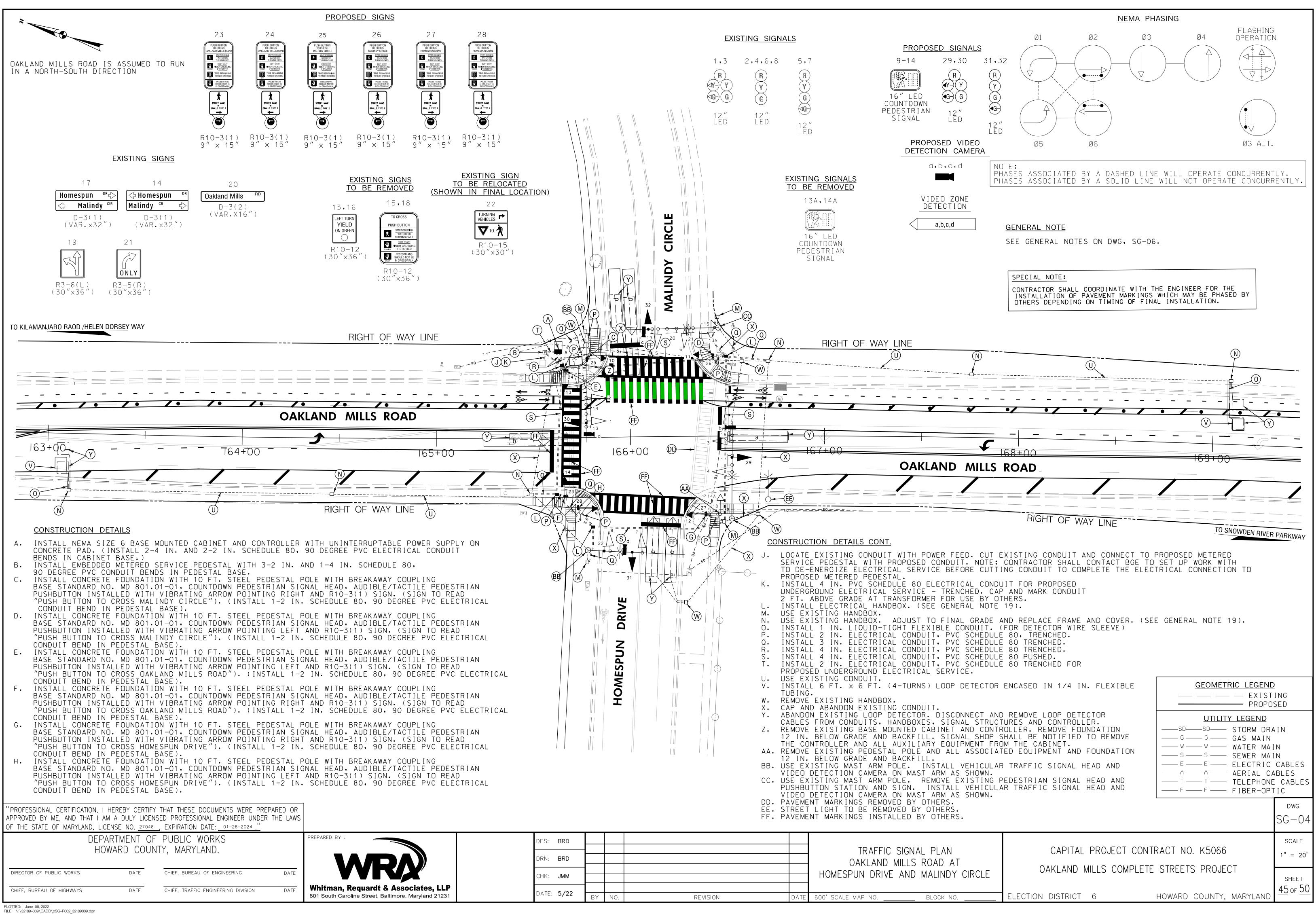
REVISION

tes, LLP

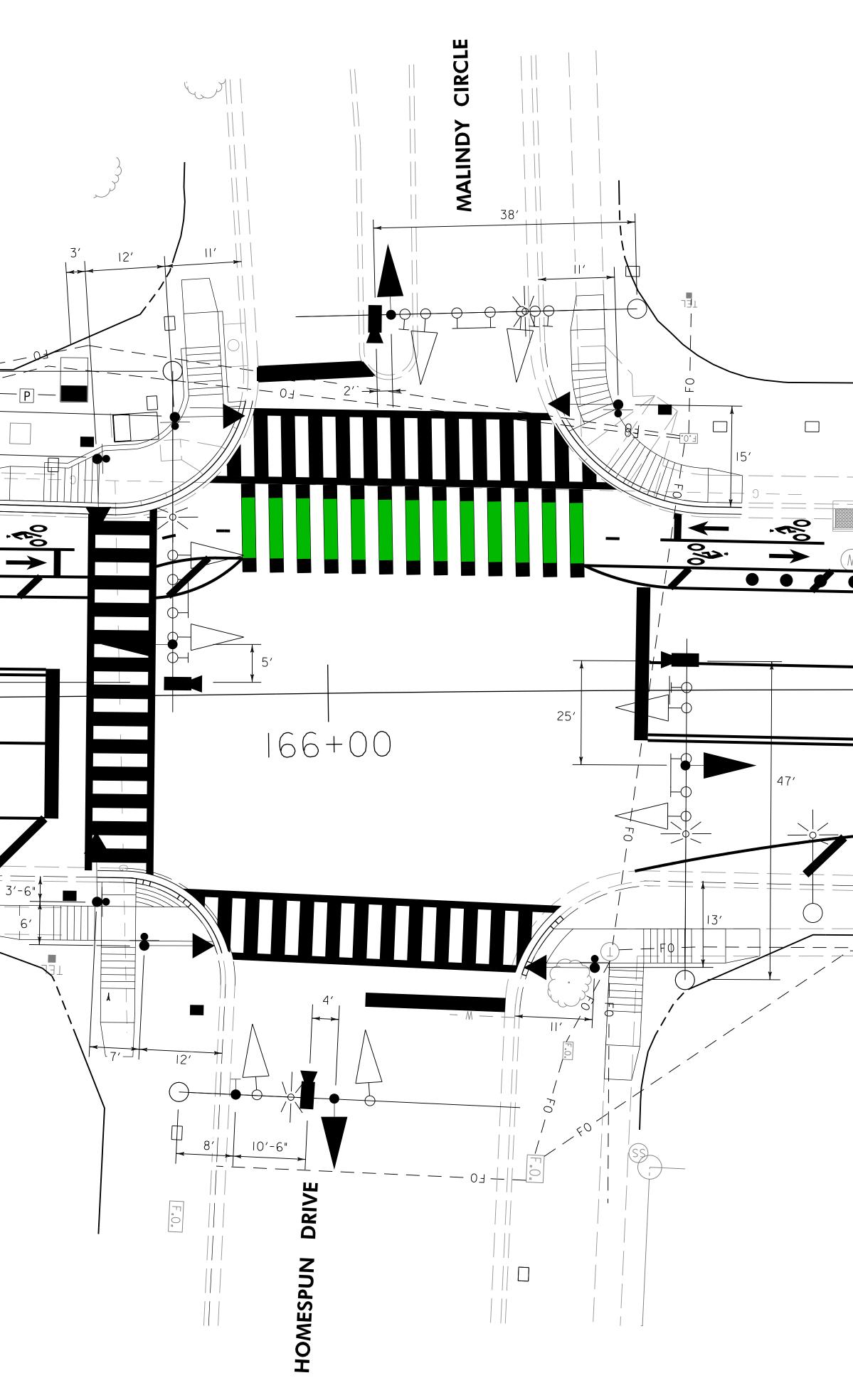
DATE: **5/22**

DATE 600' SCALE MAP NO.

				EQUIPMENT LIST	
	Α. Ε	QUIPMENT	TO BE FURNI	SHED BY COUNTY	
	QUANTIT	Y UNI	<u> </u>	TEM DESCRIPTION	
	1000			ETECTION CAMERA CABLE	
	3	EA EA		ETECTION CAMERA (THERMAL SENSOR) ETECTION PROCESSOR	
	8	EA		D SIGN, 5 TO <25 SQUARE FEET.	
	4	EA	12 INCH	, THREE SECTION LED (R,Y,G) SINGLE FACE TRAFFIC SIGNAL HEAD WITH M	AST
	4	EA		NTING HARDWARE AND TUNNEL VISORS • FIVE SECTION SECTION LED (R•Y•G• YA• GA) SINGLE FACE TRAFFIC SIG	NAL
	6		HEAD WI	TH MAST ARM MOUNTING HARDWARE AND TUNNEL VISORS PEDESTRIAN SIGNAL HEAD	
	6	EA EA		IAN PUSHBUTTON STATON AND SIGN	
	6	ΕA	R10-3(1) SIGN	
	1	ΕA	CONTROL	CABINET, BASE MOUNTED	
	1	ΕA	UPS CAB	INET, BASE MOUNTED	
	1	EA		CONTROL UNIT	
	2	EA EA	CELLULAF 250W LEF	COBRAHEAD LUMINAIRE	
	_			SHED AND INSTALLED BY CONTRACTOR	
	<u>ITEM NO.</u>	<u>QUANTI</u>		ITEM DESCRIPTION	
	2001 * 5001	6 450	CY LF	TEST PIT EXCAVATION PERMANENT PREFORMED THERMOPLASTIC PAVEMENT LINE, 24 INCH WIDE, W	HITF
	* 5001 * 5002	350	LF	PERMANENT PREFORMED THERMOPLASTIC PAVEMENT LINE, 12 INCH WIDE, W	
	8001	1.2	СҮ	CONCRETE FOUNDATION FOR CABINET	
	8003	75	LF	I INCH ELECTRICAL CONDUIT, GALVANIZED OR FLEXIBLE LIQUID TIGHT C DETECTOR WIRE SLEEVE	ONDUIT.
	8010	165	LF	2 INCH ELECTRICAL CONDUIT, PVC SCHEDULE 80, TRENCHED	
	8008	90	LF	3 INCH ELECTRICAL CONDUIT, PVC SCHEDULE 80, TRENCHED	
	8012	65	LF	4 INCH ELECTRICAL CONDUIT, PVC SCHEDULE 80, TRENCHED	
	8014	315	LF	4 INCH ELECTRICAL CONDUIT, PVC SCHEDULE 80, PUSHED	
	8016	1	ΕA	EMBEDDED METERED SERVICE PEDESTAL	
	8018 8024	8 260	EA	GROUND ROD, 3/4 INCH DIAMETER X 10 FOOT LENGTH WITH CLAMP LOOP WIRE, 14 AWG THWN IN 1/4 INCH FLEXIBLE TUBING	
	8024	845	LF	INSTALL VIDEO DETECTION CAMERA CABLE	
	8026	980	LF	ELECTRICAL CABLE, 2 CONDUCTOR, 14 AWG, ALUMINUM SHIELDED, LOOP L	EAD IN WIRE
	8027	875	LF	ELECTRICAL CABLE, 2 CONDUCTOR, 14 AWG IMSA 19-1	
	8029	1230	LF	ELECTRICAL CABLE, 5 CONDUCTOR, 14 AWG IMSA 19-1	
	8030	1200	LF	ELECTRICAL CABLE, 7 CONDUCTOR, 14 AWG IMSA 19-1	
	8031 8032	480 750	LF	ELECTRICAL CABLE, 3 CONDUCTOR, 12 AWG, COPPER TYPE TC ELECTRICAL CABLE, 1 CONDUCTOR, 6 AWG, STRANDED BARE COPPER	
	8032	125	LF	ELECTRICAL CABLE, 1 CONDUCTOR, NO. 8 AWG, STRANDED BARE COFFER	
	8039	8	EA	INSTALL OVERHEAD SIGN, 5 TO <25 SQUARE FEET.	
	8042	2	ΕA	UP TO 20 FOOT LIGHTING ARM, STRAIN POLE, OR MAST ARM POLE	
	8044	2	ΕA	INSTALL COBRAHEAD LUMINAIRE	
	8049	1	EA	FURNISH AND INSTALL 27 FOOT POLE AND 50 FOOT SINGLE MAST ARM	
	8053 8067	1	EA	FURNISH AND INSTALL 27 FOOT POLE AND 50/50 FOOT TWIN MAST ARMS FURNISH AND INSTALL PEDESTAL POLE, ANY SIZE, WITH BREAKAWAY COUP	
	8078	o 32	EA	INSTALL SIGNAL HEAD	LING DASE
	8080	6	EA	INSTALL PEDESTRIAN SIGNAL HEAD	
	8081	6	EA	INSTALL PEDESTRIAN PUSHBUTTON AND SIGN	
	8082	3	EA	INSTALL MAST ARM MOUNTED VIDEO CAMERA DETECTOR WITH COUNTY SUPPL ASTRO BRACKET CLAMPS	IED
	8086	1	EA	INSTALL CONTROL CABINET, BASE OR POLE MOUNTED	
	8087	2	EA	ADJUST ELEVATION OF EXISTING HANDBOX, REPLACE FRAME AND COVER	
	8088	5	EA	TRAFFIC SIGNAL HANDBOX (PULLBOX)	
	8089	1	EA	TRAFFIC SIGNAL HANDBOX OVER EXISTING CONDUITS AND CABLE	
	8090 8091	180 75	LF	DISCONNECT, PULL BACK, AND REROUTE CABLES	
	8091 8104	75 2	LF CY	SAW CUT 4 1/2 INCH DEPTH FOR LOOP DETECTOR REMOVE FOUNDATION 12 INCHES BELOW GRADE	
	8103	2	EA	REMOVE AND SALVAGE TRAFFIC SIGNAL MAST ARM POLE	
	8108	1	EA	REMOVE AND SALVAGE CABINET	
то	8109	2	ΕA	REMOVE SIGNAL HANDBOX	
' U	8111	21	EA	REMOVE AND SALVAGE ANY SIGNAL HEAD	
	8114	1	ΕA	REMOVE AND SALVAGE VIDEO DETECTION CAMERA	
				FOR TEMPORARY APPLICATION OR AS DIRECTED BY THE ENGINEER	
				IDEO DETECTION CAMERAS TO COUNTY	dwg. SG-03
	N PLAN			CAPITAL PROJECT CONTRACT NO. K5066	SCALE
-	D AT			KLAND MILLS COMPLETE STREETS PROJECT	NTS SHEET
BL	DCK NO		ELECTION I	DISTRICT 6 HOWARD COUNTY, MARYLAND	<u>44</u> of <u>50</u>



2						
OAKLAND MILLS ROAD IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION						
		3				
			X 38'			
TO KILAMANJARO ROAD /HELEN DORSEY WAY RIGHT OF WAY LINE					RIGHT OF WAY LINE	
						-
AL FO						
	- — — — - — = = 7' 1 + _ + <u>-</u> + <u>-</u> + <u>-</u> + <u>-</u> + <u>-</u> + <u>-</u> + <u>-</u> + <u>-</u> + <u>-</u> + <u>-</u> + <u>-</u> - + <u>-</u> + <u>-</u> + <u>-</u> + <u>-</u> - + <u>-</u> + <u>-</u> + <u>-</u>			I5′		
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						-
OAKLAND MILLS ROAD						-
		5'				
$\frac{1}{165\pm00}$		166 ± 00	25'	67+		_
				47'		-
				OAKLAND	MILLS ROAD	
						• _ _
						_
RIGHT OF WAY LINE	LEL F.O.					- O SNOWDEN RIVER PARKWAY
				·		
		8' 10'-6" 				
						<u>GEOMETRIC LEGEND</u> = EXISTING
						PROPOSED
		VESP			G -	G SD STORM DRAIN G G GAS MAIN W WATER MAIN
		Š			S S E -	S SEWER MAIN E ELECTRIC CABLES
"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					——— A -	A A A A A A A A A A A A A A A A A A A
OF THE STATE OF MARYLAND, LICENSE NO. 27048, EXPIRATION DATE: 01-28-2024" DEPARTMENT OF PUBLIC WORKS	PREPARED BY :	DES: BRD				SCALE
HOWARD COUNTY, MARYLAND.		DRN: BRD		TRAFFIC SIGNAL DETAIL SHEET OAKLAND MILLS ROAD AT	CAPITAL PROJECT CON	1 - 10
DIRECTOR OF PUBLIC WORKSDATECHIEF, BUREAU OF ENGINEERINGDATECHIEF, BUREAU OF HIGHWAYSDATECHIEF, TRAFFIC ENGINEERING DIVISIONDATE		CHK: JMM		HOMESPUN DR AND MALINDY CIRCLE	OAKLAND MILLS COMPLET	SHEET
CHIEF, BUREAU OF HIGHWAYS DATE CHIEF, TRAFFIC ENGINEERING DIVISION DATE PLOTTED: June 08, 2022 FILE: N:\32189-009\CADD\pSG-N002_32189009_DETAIL.dgn	Whitman, Requardt & Associates, LLP 801 South Caroline Street, Baltimore, Maryland 21231	DATE: 5/22 BY NO.	REVISION DATE	600' SCALE MAP NO BLOCK NO	ELECTION DISTRICT 6	HOWARD COUNTY, MARYLAND $46 \text{ of } 50$



<u>GENERAL</u>

PROJECT DESCRIPTION

THIS PORTION OF THE PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AND INSTALLATION OF APS (ACCESSIBLE PEDESTRIAN SIGNALS) AND CPS (COUNTDOWN PEDESTRIAN SIGNALS) AT THE INTERSECTION OF OAKLAND MILLS ROAD AND HOMESPUN DRIVE/MALINDY CRICLE IN HOWARD COUNTY, MARYLAND, THE CONTROLLER CABINET WILL ALSO BE REPLACED. OAKLAND MILLS IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA SIX-PHASE, FULLY-TRAFFIC-ACTUATED MODE WITH EXCLUSIVE/PERMISSIVE LEFT TURNS ON THE NORTHBOUND AND SOUTHBOUND OAKLAND MILLS ROAD APPROACHES. THE HOMESPUN DRIVE AND MALINDY CIRCLE APPROACHES WILL OPERATE SPLIT PHASE.

ACTUATED PEDESTRIAN MOVEMENTS WILL BE PROVIDED ACROSS THE WEST, NORTH, AND EAST LEGS OF THE INTERSECTION, INSTALL AN EIGHT PHASE, FULL TRAFFIC-ACTUATED, SOLID STATE DIGITAL CONTROLLER WITH INTERSECTION MONITOR, HARNESS AND BATTERY BACK-UP HOUSED IN A BASE MOUNTED CABINET.

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE	
STANDARD NO. MD-104.03-02 (SHOULDER WORK/ MULTILANE UNDIV. EQUAL/LE STANDARD NO. MD-104.02-14 (INTERSECTION FLAGGING OPERATION 2-LANE, STANDARD NO. MD-104.03-04 (LEFT LANE CLOSURE/MULTILANE UNDIV. EQUAL STANDARD NO. MD-104.03-06 (RIGHT LANE CLOSURE/MULTILANE UNDIV. EQUA STANDARD NO. MD-104.03-10 (INTER. FAR-LEFT LANE CLOSURE/MULTILANE U STANDARD NO. MD-104.03-12 (INTER. FAR-RIGHT LANE CLOSURE/MULTILANE U STANDARD NO. MD-104.03-14 (INTER. FAR-SIDE CLOSURE/MULTILANE UNDIV. STANDARD NO. MD-104.03-14 (INTER. FAR-SIDE CLOSURE/MULTILANE UNDIV.	2-WAY EQUAL/LESS THAN 40 MPH) /LESS THAN 40 MPH) L/LESS THAN 40 MPH) NDIV. EQUAL/LESS THAN 40 MPH) UNDIV. EQUAL/LESS THAN 40 MPH) EQUAL/LESS THAN 40 MPH)
GENERAL NOTES	PROJECT CONTACTS
	ST ,
APS MESSAGES	
TYPICAL MESSAGES FOR ACCESSIBLE PED SIGNALS	
OAKLAND MILLS ROAD AND MALINDY CIRCLE - EAST LEG <u>STREETS AT 90 DEGREES</u>	
WAIT: "WAIT TO CROSS MALINDY AT OAKLAND MILLS, WAIT." WALK: RAPID TICK	*
OAKLAND MILLS AND MALINDY CIRCLE/HOMESPUN DRIVE - NORTH LEG STREETS AT 90 DEGREES	
WAIT: "WAIT TO CROSS OAKLAND MILLS AT MALINDY AND HOME WALK: RAPID TICK OAKLAND MILLS ROAD AND HOMESPUN DRIVE - WEST LEG	SPUN, WAIT. *
STREETS AT 90 DEGREES WAIT: "WAIT TO CROSS HOMESPUN AT OAKLAND MILLS, WAIT.'	′ <u>*</u>
WALK: RAPID TICK * MESSAGE USED IF DISTANCE FROM NEAREST PUSHBUTTON FOR PEF	
NOTE: MESSAGES FOR INTERSECTION CONFIGURATIONS, VARYING FROM ARE TO BE APPROVED BY HOWARD COUNTY TRAFFIC ENGINEERIN	1 THE ABOVE
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 LAW	
DF THE STATE OF MARYLAND, LICENSE NO. <u>27048</u> , EXPIRATION DATE: <u>01-28-2024</u> ." DEPARTMENT OF PUBLIC WORKS	PREPARED BY :
HOWARD COUNTY, MARYLAND.	

DIRECTOR OF PUBLIC WORKS

CHIEF, BUREAU OF ENGINEERING

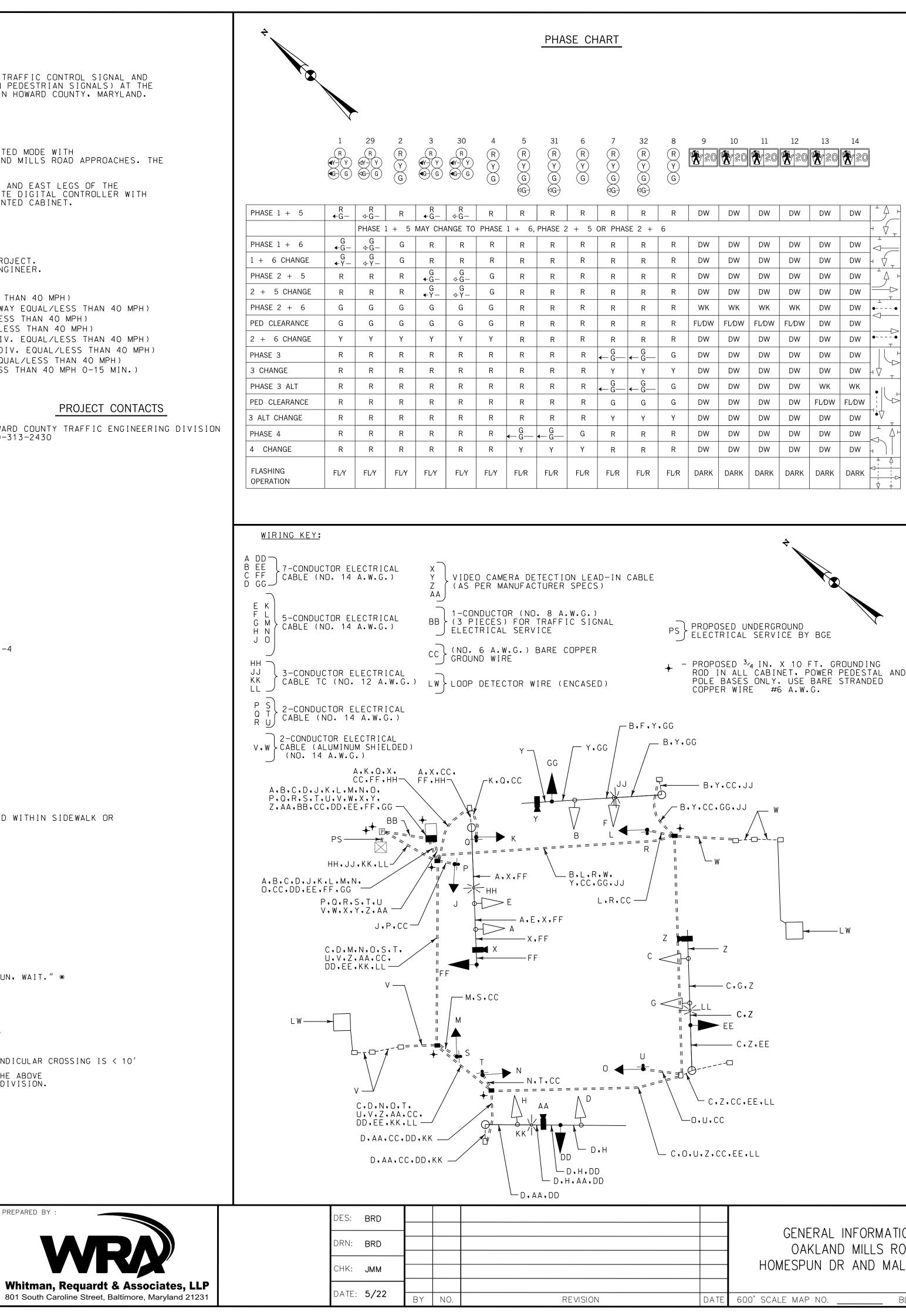
DATE

DATE

CHIEF, BUREAU OF HIGHWAYS DATE

PLOTTED: June 08, 2022 FILE: N:\32189-009\CADD\pSG-N002_32189009_GI.dgn

DATE



EQUIPMENT LIST

			TO BE FUR	NISHED BY COUNTY						
	<u>QUANTIT</u> 1000	<u>Y</u> <u>UNIT</u> LF	VIDEO	ITEM DESCRIPTION DETECTION CAMERA CABLE						
	4	EA		DETECTION CAMERA (THERMAL SENSOR)						
	1	EA		DETECTION PROCESSOR						
	6	EA		(1) SIGNS						
	2	EA		CH, THREE SECTION LED (R,Y,G) SINGLE FACE TRAFFIC SIGNAL HEAD WITH M	Δςτ					
	L	27		OUNTING HARDWARE AND TUNNEL VISORS						
н	2	ΕA	12 INCH, FIVE SECTION SECTION LED (R,Y,G, YA, GA) SINGLE FACE TRAFFIC SIGN HEAD WITH MAST ARM MOUNTING HARDWARE AND TUNNEL VISORS							
	6	ΕA		CH PEDESTRIAN SIGNAL HEAD						
_	6	EA		TRIAN PUSHBUTTON STATON AND SIGN						
	1	EA		CONTROL CABINET, BASE OR POLE MOUNTED						
н	1	ΕA		UPS CABINET, BASE MOUNTED						
>	1	EA		AL CONTROL UNIT						
•	1	ΕA	CELLUI	LAR MODEM						
>										
>	B. EQU			NISHED AND INSTALLED BY CONTRACTOR						
			IU DE FUR	NISHED AND INSTALLED DI CONTRACTOR						
	ITEM NO.	QUANTI	<u>ry</u> <u>unit</u>	ITEM DESCRIPTION						
	2001	2	СҮ	TEST PIT EXCAVATION						
	* 5001	388	LF	PERMANENT PREFORMED THERMOPLASTIC PAVEMENT LINE, 24 INCH WIDE, WHIT	E					
	* 5002	307	LF	PERMANENT PREFORMED THERMOPLASTIC PAVEMENT LINE, 12 INCH WIDE, WHIT	E					
$- \mid \mid$	8001	2.4	СҮ	CONCRETE FOUNDATION FOR CABINET						
₽	8003	15	LF	I INCH ELECTRICAL CONDUIT, GALVANIZED OR FLEXIBLE LIQUID TIGHT COND	DUIT,					
		-		DETECTOR WIRE SLEEVE						
	8007	57	LF	2 INCH ELECTRICAL CONDUIT, PVC SCHEDULE 80, TRENCHED						
	8010	91	LF	3 INCH ELECTRICAL CONDUIT, PVC SCHEDULE 80, TRENCHED						
	8012	20	LF	4 INCH ELECTRICAL CONDUIT, PVC SCHEDULE 80, TRENCHED						
	8014	305	LF	4 INCH ELECTRICAL CONDUIT, PVC SCHEDULE 80, PUSHED						
	8016	1	EA	EMBEDDED METERED SERVICE PEDESTAL						
	8018	7	EA	GROUND ROD, 3/4 INCH DIAMETER X 10 FOOT LENGTH WITH CLAMP						
	8024	264	LF	LOOP WIRE. 14 AWG THWN IN 1/4 INCH FLEXIBLE TUBING						
	8025	785	LF	INSTALL VIDEO DETECTION CAMERA CABLE						
	8026	750	LF	ELECTRICAL CABLE, 2 CONDUCTOR, 14 AWG, ALUMINUM SHIELDED, LOOP LEAD) IN WIRE					
ND	8027	670	LF	ELECTRICAL CABLE, 2 CONDUCTOR, 14 AWG IMSA 19-1						
	8029	758	LF	ELECTRICAL CABLE, 5 CONDUCTOR, 14 AWG IMSA 19-1						
	8030	1525	LF	ELECTRICAL CABLE, 7 CONDUCTOR, 14 AWG IMSA 19-1						
	8031	350	LF	ELECTRICAL CABLE, 3 CONDUCTOR, 12 AWG, COPPER TYPE TC						
	8032	475	LF	ELECTRICAL CABLE, 1 CONDUCTOR,6 AWG, STRANDED BARE COPPER						
	8035	60	LF	ELECTRICAL CABLE, 1 CONDUCTOR, NO. 8 AWG THHN/THWN						
	8039	1	ΕA	INSTALL OVERHEAD SIGN, 5 TO <25 SQUARE FEET.						
	8067	6	ΕA	FURNISH AND INSTALL PEDESTAL POLE, ANY SIZE, WITH BREAKAWAY COUPLIN	IG BASE					
	8078	16	ΕA	INSTALL SIGNAL HEAD						
	8080	6	ΕA	INSTALL PEDESTRIAN SIGNAL HEAD						
	8081	6	ΕA	INSTALL PEDESTRIAN PUSHBUTTON AND SIGN						
	8082	4	ΕA	INSTALL MAST ARM MOUNTED VIDEO CAMERA DETECTOR WITH COUNTY SUPPLIED)					
	000 -		- ·	ASTRO BRACKET CLAMPS						
	8086	1	EA	INSTALL CONTROL CABINET, BASE OR POLE MOUNTED						
	8087	6	EA	ADJUST ELEVATION OF EXISTING HANDBOX, REPLACE FRAME AND COVER						
	8088	4	EA	TRAFFIC SIGNAL HANDBOX (PULLBOX)						
	8091	86	LF	SAW CUT 4 1/2 INCH DEPTH FOR LOOP DETECTOR						
	8096	3	EA	REMOVE AND SALVAGE OF SIGNS LESS THAN 50 SQUARE FEET						
	8104	1	CY F A	REMOVE FOUNDATION 12 INCHES BELOW GRADE						
	8107	1	EA	REMOVE AND SALVAGE PEDESTAL POLE AND BREAKAWAY BASE						
	8108	1	EA	REMOVE AND SALVAGE CABINET						
	8109	3	EA	REMOVE SIGNAL HANDBOX						
	8111	2	ΕA	REMOVE AND SALVAGE ANY SIGNAL HEAD						
	* PAVEME	NT MARK	ING INCLUD	ED FOR TEMPORARY APPLICATION OR AS DIRECTED BY THE ENGINEER						
	C. EQU	IIPMENI	IO BE REI	URNED TO HOWARD COUNTY TRAFFIC						
		ΤΡΛΟΤΟΡ	דה סבדויהאי	VIDEO DETECTION CAMERAS TO COUNTY						
	CUN	IRACIUR	IU KEIUKN	VIDEO DETECTION CAMERAS TO COUNTY						
					DWG.					
					SG-06					
		<u> </u>			 					
					SCALE					
-	N PLAN		CAPITAL PROJECT CONTRACT NO. K5066							
		.	(DAKLAND MILLS COMPLETE STREETS PROJECT						
ΆLIΝ	NDY CIRCLE	·			SHEET					
			— . —		<u>47</u> of <u>50</u>					
BLC)CK NO		ELECTION	I DISTRICT 6 HOWARD COUNTY, MARYLAND						

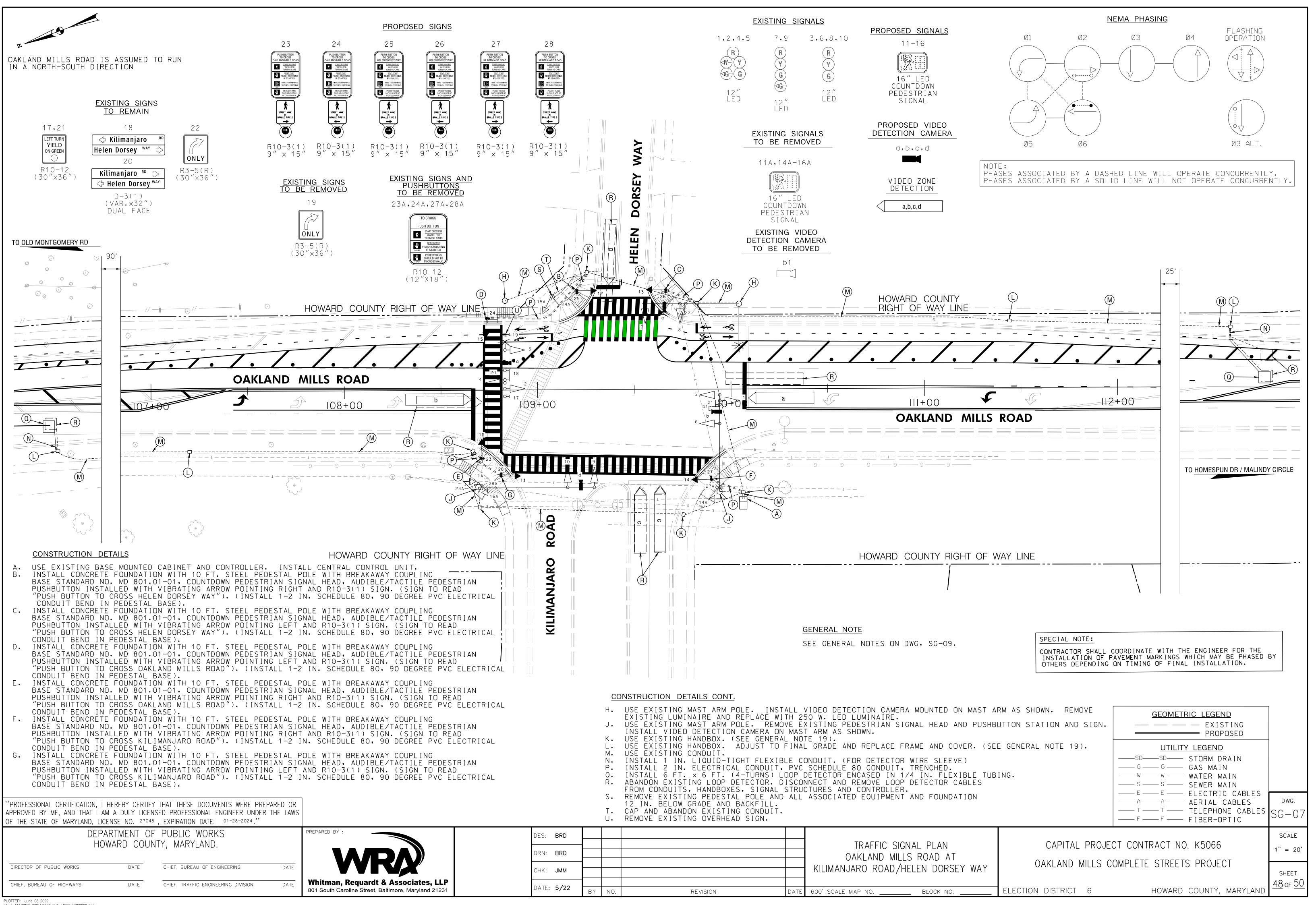
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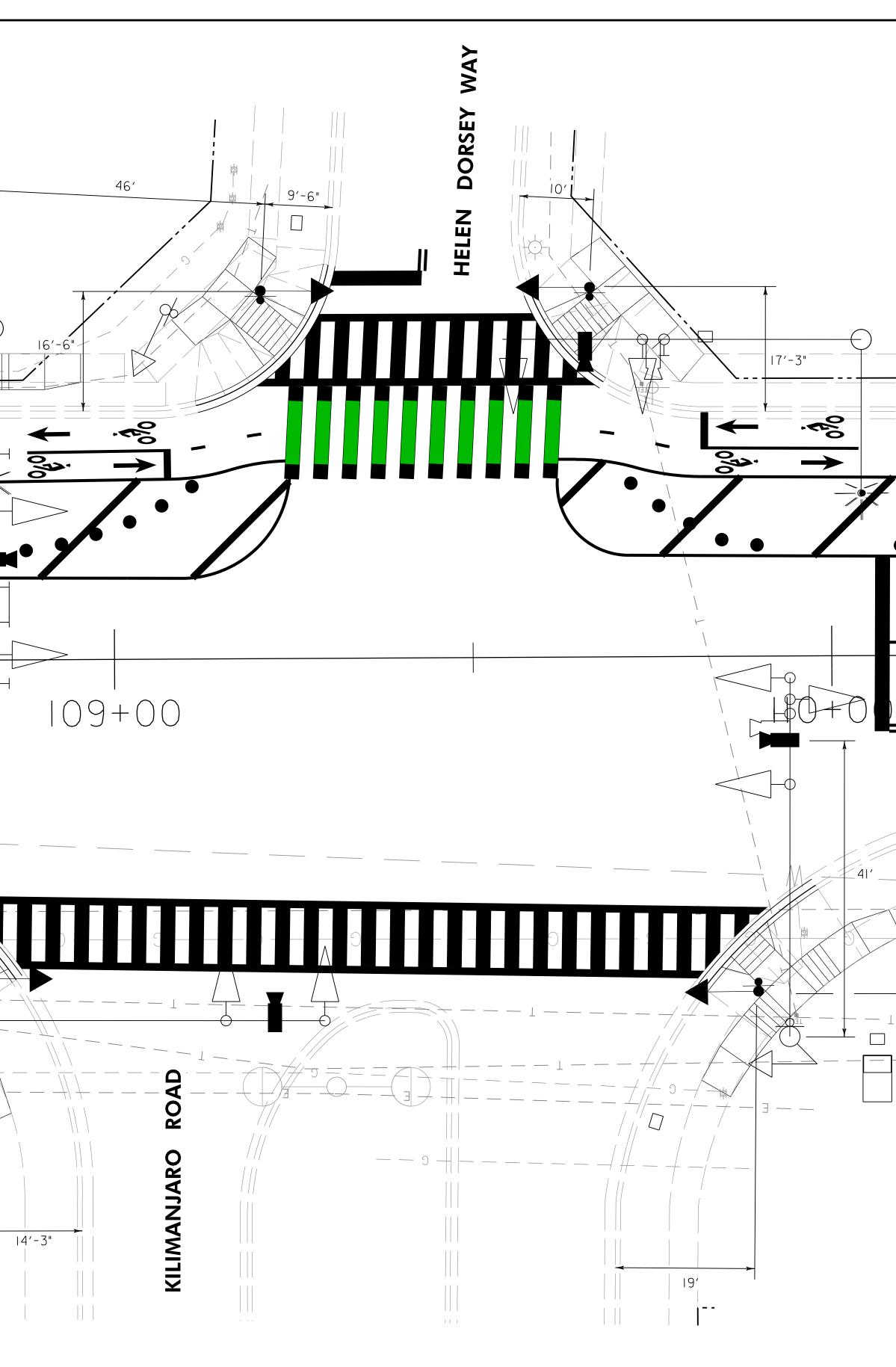
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CHIEF, TRAFFIC ENGINEERING DIVISION



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Z		WAY			
OAKLAND MILLS ROAD IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION		ORSEY			
	46'				
TO OLD MONTGOMERY RD HOWARD COUNT	Y RIGHT OF WAY LINE-		HOWARD COUN	TY RIGHT OF WAY LINE	
			• / •		
OAKLAND MILLS ROAD					
108+00	$= \frac{109+00}{109+00}$	I)		
				OAKLAND MILLS ROAD	
				TO HOMESPUN DR / MALINDY CIRCLE	
				$\begin{array}{c} -25'$	
			·		
HOWARD COUNTY RIGHT OF WAY				COUNTY RIGHT OF WAY	
	IO' IQ' IQ' <th></th> <th></th> <th></th> <th></th>				
				GEOMETRIC LEGEND ————————————————————————————————————	
				UTILITY LEGEND SDSDSTORM DRAIN G	
"PROFESSIONAL CERTIFICATION, I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED O APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LA	DR WS			Solution Solution <td< th=""><th>_{dwg.} SG-08</th></td<>	_{dwg.} SG-08
OF THE STATE OF MARYLAND, LICENSE NO. 27048, EXPIRATION DATE: 01-28-2024." DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND.	PREPARED BY :	DES: BRD DRN: BRD	NAL DETAIL PLAN		SCALE 1" = 10'
DIRECTOR OF PUBLIC WORKS DATE CHIEF, BUREAU OF ENGINEERING DATE CHIEF, BUREAU OF HIGHWAYS DATE CHIEF, TRAFFIC ENGINEERING DIVISION DATE		CHK: JMM CHK: 5/22 BY NO.	MILLS ROAD AT D/HELEN DORSEY WAY	OAKLAND MILLS COMPLETE STREETS PROJECT ELECTION DISTRICT 6 HOWARD COUNTY, MARYLAND	sheet <u>49</u> of <u>50</u>
PLOTTED: June 08, 2022 FILE: N:\32189-009\CADD\pSG-N003_32189009_DETAIL.dgn					





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	PHASE 1 + 5 $\stackrel{R}{+G-}$ $\stackrel{R}{+G-$	RRRDWDWDWDWDWDWDW5 OR PHASE 2 + 6+ \checkmark_{T} RRRRDWDWDWDWDWRRRDWDWDWDWDWDWRRRDWDWDWDWDWDWRRRRDWDWDWDWDWRRRDWDWDWDWDWRRRRDWDWDWDWRRRRFLDWFLDWFLDWDWRRRRDWDWDWDWOWRRRRDWDWDWDW \checkmark_{T} RRGGDWDWDWDWDW \checkmark_{T} RRRRHDWDWDWDW \checkmark_{T}
SION		$\frac{1}{\sqrt{R}} = \frac{1}{\sqrt{R}} = 1$
	WIRING KEY: $A \ D \\ E \\ C \ F \end{bmatrix}$ 5-CONDUCTOR ELECTRICAL $B \ E \\ C \ F \end{bmatrix}$ 5-CONDUCTOR ELECTRICAL $U \\ V \end{bmatrix}$ 3-CONDUCTOR ELECTRICAL $U \\ V \end{bmatrix}$ 3-CONDUCTOR ELECTRICAL $U \\ V \end{bmatrix}$ 3-CONDUCTOR ELECTRICAL $U \\ V \end{bmatrix}$ 2-CONDUCTOR ELECTRICAL $W \end{bmatrix}$ LOOP $H \\ L \\ C ABLE (NO. 14 A.W.G.)$ $+ - PRO RODPO \\ PO \\$	G DIAGRAM CAMERA DETECTION LEAD-IN CABLE ER MANUFACTURER SPECS) 6 A.W.G.) BARE COPPER D WIRE WIRE ENCASED POSED ³ / ₄ IN. X 10 FT. GROUNDING IN ALL CABINET, POWER PEDESTAL AND E BASES ONLY. USE BARE STRANDED PER WIRE #6 A.W.G.
	PUL CABLE (ALUMINUM SHIELDED) (NO. 14 A.W.G.) R.U R.U R.U D.K.T R.U D.K.T L L D.K.T D.K.T L D.K.T L D.K.T D.K.T L D.K.T	D,E,K,L,R,U M / F,M,T
	$R \rightarrow R$ R R R R R R R R R	
		A A B C D E F H.J.K.L.M.N P.Q.R.S.T.U P.O.R.S.T.U B.C.H.J.O.S B.C.H.J.O.S
	DES: BRD	GENERAL INFORM OAKLAND MILLS KILIMANJARO ROAD/HEI

801 South Caroline Street, Baltimore, Maryland 21231

DATE: **5/22**

600' SCALE MAP NO. DATE

REVISION

EQUIPMENT LIST

A. EQU	IPMENT TO B	E FURNISHED BY COUNTY
QUANTIT	<u>Y</u> <u>UNIT</u>	ITEM DESCRIPTION
100	O LF	VIDEO DETECTION CAMERA CABLE
4	ΕA	VIDEO DETECTION CAMERA (THERMAL SENSOR)
1	ΕA	VIDEO DETECTION PROCESSOR
6	ΕA	16 INCH PEDESTRIAN SIGNAL HEAD
6	ΕA	PEDESTRIAN PUSHBUTTON STATION AND SIGN
1	ΕA	CENTRAL CONTROL UNIT
1	ΕA	CELLULAR MODEM
2	ΕA	250W LED COBRAHEAD LUMINAIRE

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY CONTRACTOR

ITEM NO.	QUANTI	TY UNIT	ITEM DESCRIPTION	
2001	3	СҮ	TEST PIT EXCAVATION	
* 5001	495	LF	PERMANENT PREFORMED THERMOPLASTIC PAVEMENT LINE, 24 INCH WIDE, N	NHITE
* 5002	415	LF	PERMANENT PREFORMED THERMOPLASTIC PAVEMENT LINE, 12 INCH WIDE, N	NHITE
8003	90	LF	I INCH ELECTRICAL CONDUIT, GALVANIZED OR FLEXIBLE LIQUID TIGHT (DETECTOR WIRE SLEEVE	CONDUIT,
8007	110	LF	2 INCH ELECTRICAL CONDUIT, PVC SCHEDULE 80, TRENCHED	
8018	4	ΕA	GROUND ROD, 3/4 INCH DIAMETER X 10 FOOT LENGTH WITH CLAMP	
8024	300	LF	LOOP WIRE. 14 AWG THWN IN 1/4 INCH FLEXIBLE TUBING	
8025	960	LF	INSTALL VIDEO DETECTION CAMERA CABLE	
8026	1235	LF	ELECTRICAL CABLE, 2 CONDUCTOR, 14 AWG, ALUMINUM SHIELDED, LOOP L	EAD IN WIR
8027	1415	LF	ELECTRICAL CABLE, 2 CONDUCTOR, 14 AWG IMSA 19-1	
8029	1450	LF	ELECTRICAL CABLE, 5 CONDUCTOR, 14 AWG IMSA 19-1	
8032	185	LF	ELECTRICAL CABLE, 1 CONDUCTOR,6 AWG, STRANDED BARE COPPER	
8044	2	ΕA	INSTALL COBRAHEAD LUMINAIRE	
8067	6	ΕA	FURNISH AND INSTALL PEDESTAL POLE, ANY SIZE, WITH BREAKAWAY COUP	PLING BASE
8080	6	ΕA	INSTALL PEDESTRIAN SIGNAL HEAD	
8081	6	ΕA	INSTALL PEDESTRIAN PUSHBUTTON AND SIGN	
8082	4	ΕA	INSTALL MAST ARM MOUNTED VIDEO CAMERA DETECTOR WITH COUNTY SUPPL ASTRO BRACKET CLAMPS	_ IED
8087	2	ΕA	ADJUST ELEVATION OF EXISTING HANDBOX, REPLACE FRAME AND COVER	
8091	85	LF	SAW CUT 4 1/2 INCH DEPTH FOR LOOP DETECTOR	
8104	1	СҮ	REMOVE FOUNDATION 12 INCHES BELOW GRADE	
8111	4	ΕA	REMOVE AND SALVAGE ANY SIGNAL HEAD	
8114	1	EA	REMOVE AND SALVAGE VIDEO DETECTION CAMERA	
PLAN		(CAPITAL PROJECT CONTRACT NO. K5066	dwg. SG—09 scale nts
) AT PORSEY V	VAY	OAI	KLAND MILLS COMPLETE STREETS PROJECT	SHEET 50 of 50
CK NO.		FLECTION C	HOWARD COUNTY, MARYLAND	