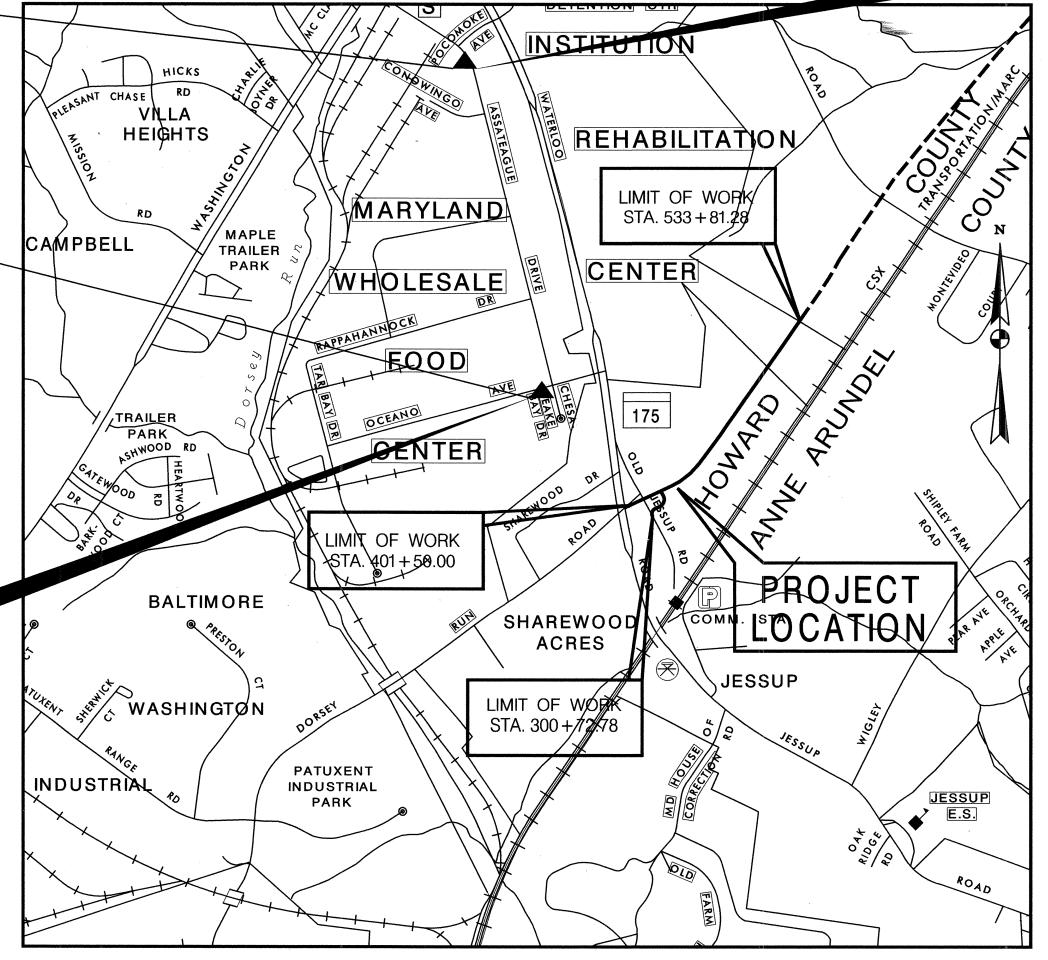
**INDEX OF DRAWINGS** TITLE SHEET **GEOMETRIC LAYOUT ROADWAY PLANS** 3-4 TYPICAL ROADWAY SECTIONS I & II 5-6 **TYPICAL ROADWAY DETAILS** INTERSECTION DETAILS I & II 8-9 ROADWAY PROFILES I, II & III 10–12 **GRADING & DRAINAGE PLANS** 13–14 PIPE PROFILES I, II, III & IV 15–18 STORM DRAINAGE DETAILS I & II 19–20 **EROSION & SEDIMENT CONTROL PLANS PHASE 1, 2 & 3** 21–26 EROSION & SEDIMENT CONTROL DETAILS & NOTES I, II, III & IV 27–30 DRAINAGE AREA MAP – PRE-DEVELOPMENT 31 DRAINAGE AREA MAP – POST–DEVELOPMENT 32 33-40 STORMWATER MANAGEMENT DETAILS 43EA 41–42 SIGNING AND MARKING PLAN EL. 242.20 N 546593.973 43 SIGNING AND MARKING SUMMARY TABLE E 1373621.750 MAINTENANCE OF TRAFFIC PLAN-PHASE I & II 44–45 46 DETOUR PLAN UTILITY /STREET LIGHTING PLANS 47–48 SEWER MAIN PROFILE 49 LANDSCAPING PLAN 50-51 43HB 52-53 **BORING LOGS** EL. 261.63 N 543166.747 **CROSS SECTIONS – DORSEY RUN ROAD** 54-71 E 1374425.040 72–74 **CROSS SECTIONS – RELOCATED OLD JESSUP ROAD** 1–2 OF 2 TRAFFIC SIGNAL PLAN – MD 175 (WATERLOO RD) & DORSEY RUN ROAD 1–6 OF 6 WATER MAIN EXTENSION (CAPITAL PROJECT W-8275) **JOTTO** 0 **43HB** DCEA ASSATEAGUE DR. TO SEAFOOD MARKET CONC. MON. 5.3' TO F.C. 5" PINE 30  $\langle \cdot \rangle$ BUSHES 3" PINE S&F BOX DEVELOPER'S CERTIFICATION "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT. 3/29/07 1200m DATE ENGINEER'S CERTIFICATION REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS. "I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE NATURAL RESOURCES CONSERVATION SERVICE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISRRICT." THE DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT Jenh 3/28/07 CONTROL BY HOWARD SOIL CONSERVATION DISTRICT. JRS CORPORATION 4 NORTH PARK DRIVE HUNT VALLEY, MD 21030 4/30/07 HOWARD SOIL CONSERVATION DISTRIC DATÉ DEPARTMENT OF PUBLIC WORKS PREPARED BY **JRS** 3/29/07 4 NORTH PARK DRIVE HUNT VALLEY, MARYLAND TEL: (410) 785-7220 3/29/07 hana uca DIVISION OF TRANSPORTATION DATE HIGHWAYS ACTUS AND SPECIAL PROJECTS

# DORSEY RUN ROAD EXTENSION MD 175 TO DORSEY RUN INDUSTRIAL CENTER ELECTION DISTRICT 1 **43EA** HOWARD COUNTY, MARYLAND TRUCKERS INN CAPITAL PROJECT J-4148-C I BLOCK TO ROUTE I ASSATEAGUE DR. NST ENTRANCE TO MARYLAND FRESH TOMATOES HICKS CHASE HEIGHTS REHABILITATION LIMIT OF WOR MARYLAND **GENERAL NOTES** STA. 533 + 81.2 MAPLE CAMPBELL TRAILER CENTER PARK WHOLESALE . THE CONTRACTOR SHALL NOTIFY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AND MISS UTILITY AT 1-800-257-7777 AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK EQOD APC NOT 2. THE SYSTEM OF COORDINATES USED BY HOWARD COUNTY IS BASED IN THE FOLLOWING DATUMS AND PROJECTIONS: 175 HORIZONTAL: MARYLAND NAD83 (ADJ 1991) VERTICAL: NAVD88 PARK HOWARD COUNTY CONTROL:



		ON MAP	
1000	HOWARD 0	1000	2000
	SCALE:	I" = 1000'	

	DORSEY RUN ROAD	RELOCATED OLD JESSUP ROAD
CLASS	MAJOR COLLECTOR	MINOR ARTERIAL STREET
DESIGN SPEED	40 MPH (POSTED 35 MPH)	25 MPH (POSTED 25 MPH)
PAVEMENT TYPE	BIT. CONC. (P–5)	BIT. CONC. (P–3)
LIMITS	STA. 401 + 50.00 TO STA. 533 + 81.28	STA. 300 + 72.78 TO STA. 305 + 37.94



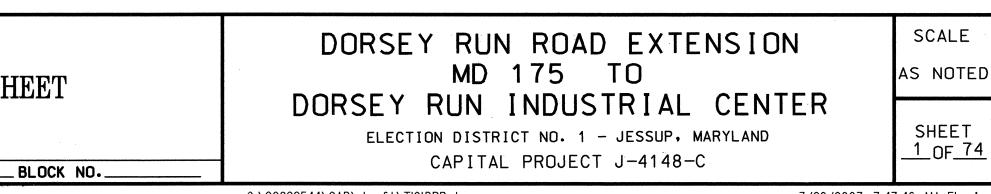
	DATE: 10/06	BY	NO.	REVISION	DATE	SCALE MAP NO. N/A
, 1						
	CHK: DTM					
	DRN: SYC/CDF					TITLE SH
	DES: CMC					

- STATION NO. 43 EA (ELEV. 242.201), N 546,593.973, E 1,373,621.750 STATION NO. 43 HB (ELEV. 251.628), N 543,166.747, E 1,374,425.040.
- 3. ALL ELEVATIONS SHOWN ARE BASED ON THE U.S.C. AND G.S. MEAN SEA LEVEL DATUM, 1988.
- 4. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY.
- 5. ALL WORK SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF THE "1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, ISSUED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT AND THE NATURAL RESOURCES CONSERVATION SERVICE.
- 6. TOPOGRAPHIC SURVEYS WERE PERFORMED BY URS CORPORATION IN JUNE 2005.
- 7. THE PROPERTY LINES AND EASEMENTS FOR THIS PROJECT ARE SHOWN ON PLATS J-4148-01, J-4148-02, J-4148-03, J-4148-04, J-4148-05, J-4148-06, J-4148-07.
- 8. SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES BETWEEN THE PLANS AND THE FIELD CONDITIONS, THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY TO RESOLVE THE SITUATION. SHOULD THE CONTRACTOR MAKE FIELD CORRECTIONS OR ADJUSTMENTS WITHOUT NOTIFYING THE ENGINEER, THEN THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR THOSE CHANGES.
- 9. CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHOD, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
- IO. APPROXIMATE UTILITIES ARE SHOWN FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.

UTILITY CONTACTS:

BGE:	(410)-597-7835 (ELECTRIC)
BGE:	(410)+291-5101 (GAS)
VERIZON:	(410)-224-9285
MCI:	(912)-729-6016
XPEIUS	(703)-386-2340
ABOVENET	(443)-250-1873
COMCAST	(410)-513-3207

II. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.

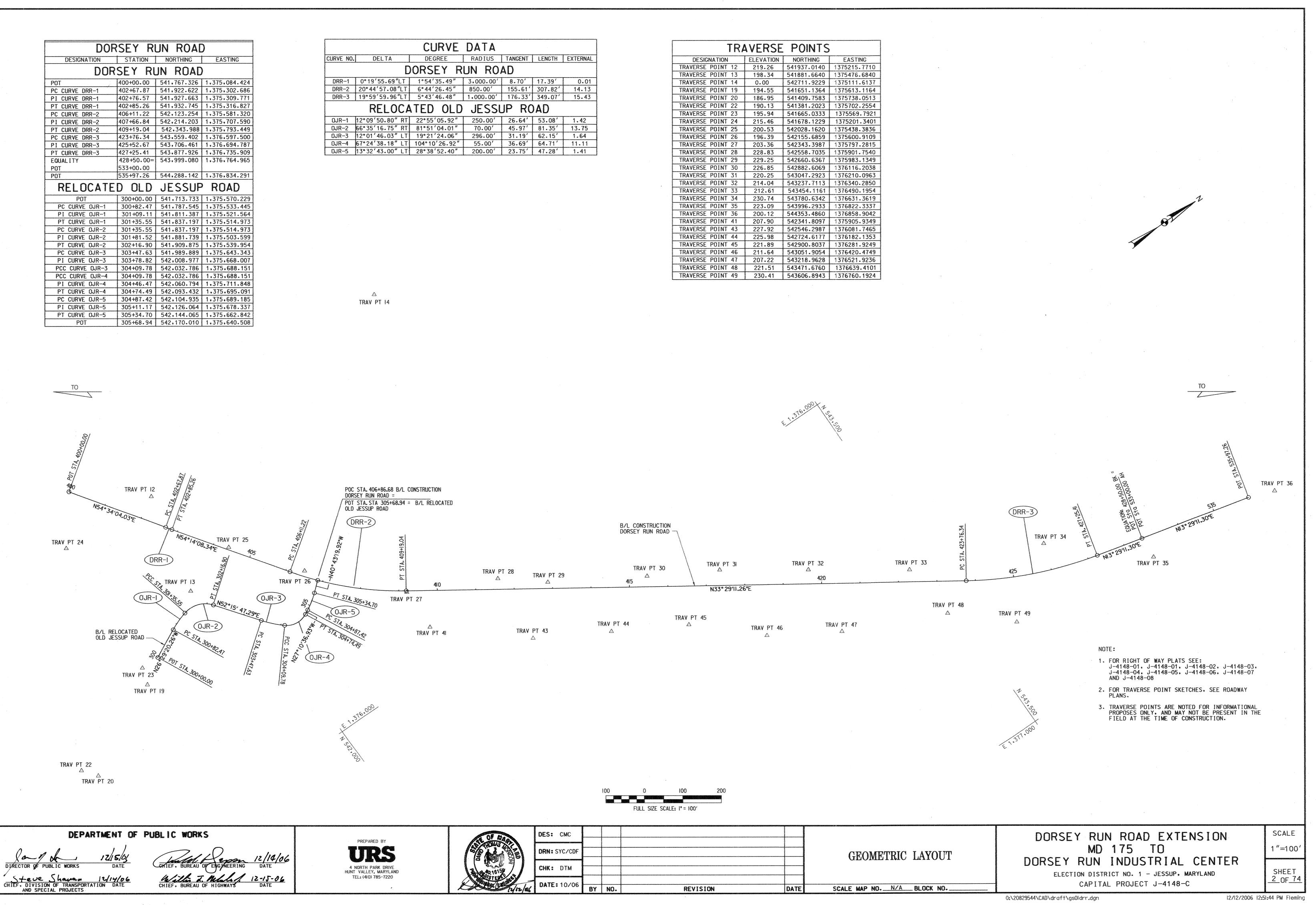


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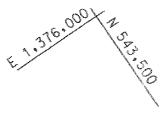
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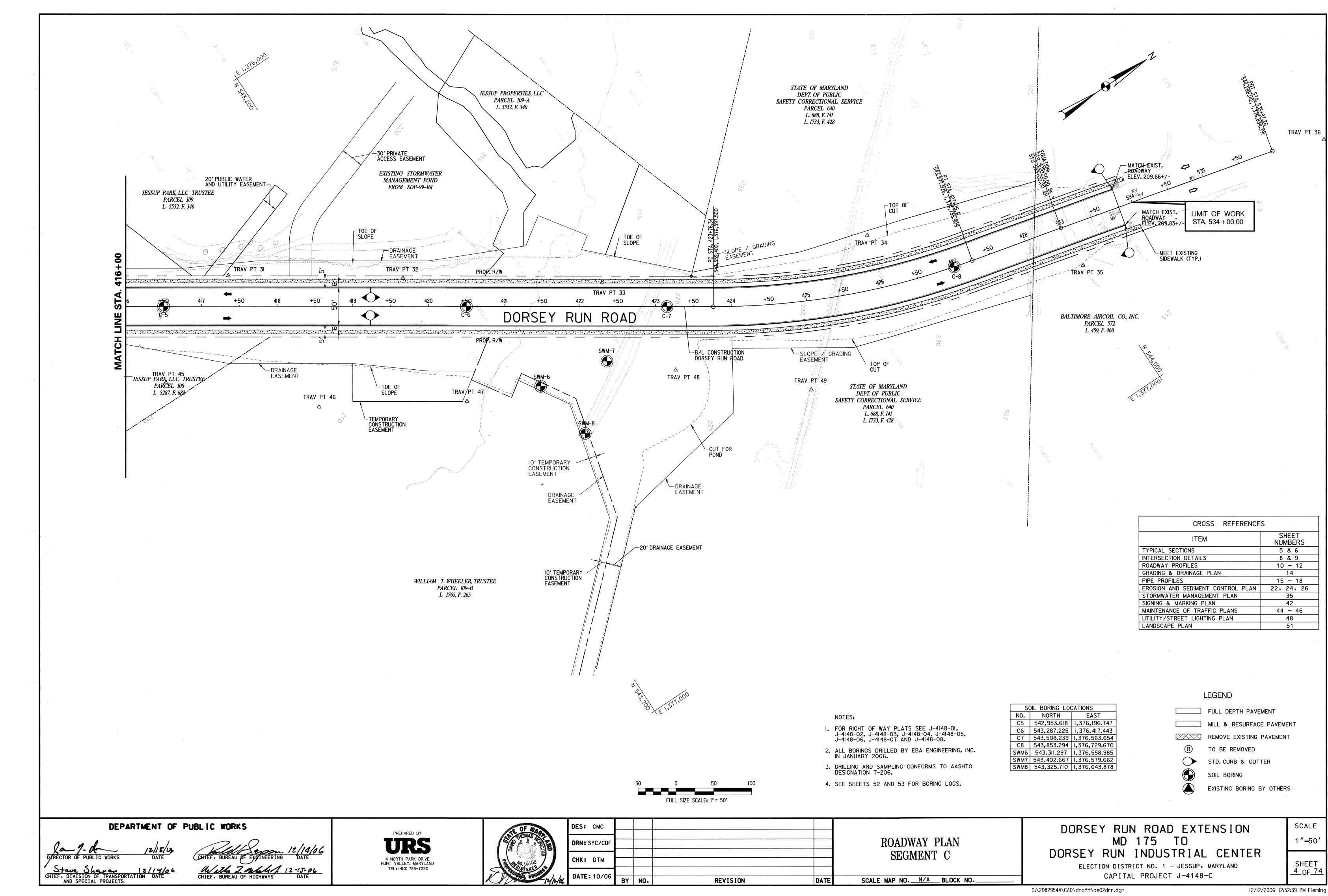
DOR	SEY RI	JN ROAL	)
DESIGNATION	STATION	NORTHING	EASTING
DOR	SEY RU	JN ROAD	)
POT	400+00.00	541,767.326	1.375.084.424
PC CURVE DRR-1	402+67.87	541,922.622	1,375,302.686
PI CURVE DRR-1	402+76.57	541,927.663	1,375,309.771
PT CURVE DRR-1	402+85.26	541,932.745	1.375.316.827
PC CURVE DRR-2	406+11.22	542,123.254	1,375,581.320
PI CURVE DRR-2	407+66.84	542,214.203	1.375.707.590
PT CURVE DRR-2	409+19.04	542.343.988	1,375,793.449
PC CURVE DRR-3	423+76.34	543,559.402	1.376.597.500
PI CURVE DRR-3	425+52.67	543,706.461	1.376,694.787
PT CURVE DRR-3	427+25.41	543,877.926	1.376.735.909
EQUALITY	428+50.00=	543,999.080	1.376.764.965
POT	533+00.00		
РОТ	535+97.26	544,288.142	1,376,834.291
RELOCATE	D OLD	JESSUP	ROAD
POT	300+00.00	541.713.733	1.375.570.229
PC CURVE OJR-1	300+82.47	541,787.545	1,375,533.445
	1 200.02.11	J-111101-J-J	8
PI CURVE OJR-1	301+09.11	541.811.387	
PI CURVE OJR-1	301+09.11	541.811.387	1,375,521.564 1,375,514.973
PI CURVE OJR-1 PT CURVE OJR-1	301+09.11 301+35.55	541.811.387 541.837.197	1,375,521.564 1,375,514.973 1,375,514.973
PI CURVE OJR-1 PT CURVE OJR-1 PC CURVE OJR-2	301+09.11 301+35.55 301+35.55	541.811.387 541.837.197 541.837.197	1,375,521.564 1,375,514.973 1,375,514.973
PI CURVE OJR-1 PT CURVE OJR-1 PC CURVE OJR-2 PI CURVE OJR-2	301+09.11 301+35.55 301+35.55 301+81.52	541.811.387 541.837.197 541.837.197 541.887.197 541.881.739	1,375,521,564 1,375,514,973 1,375,514,973 1,375,503,599 1,375,539,954
PI CURVE OJR-1 PT CURVE OJR-1 PC CURVE OJR-2 PI CURVE OJR-2 PT CURVE OJR-2	301+09.11 301+35.55 301+35.55 301+81.52 302+16.90	541.811.387 541.837.197 541.837.197 541.837.197 541.881.739 541.909.875	1,375,521,564 1,375,514,973 1,375,514,973 1,375,503,599 1,375,539,954
PI CURVE OJR-1 PT CURVE OJR-1 PC CURVE OJR-2 PI CURVE OJR-2 PT CURVE OJR-2 PC CURVE OJR-3	301+09.11 301+35.55 301+35.55 301+81.52 302+16.90 303+47.63	541.811.387 541.837.197 541.837.197 541.881.739 541.909.875 541.989.889 541.989.889 542.008.977	1.375.521.564 1.375.514.973 1.375.514.973 1.375.503.599 1.375.539.954 1.375.643.343 1.375.668.007
PI CURVE OJR-1 PT CURVE OJR-1 PC CURVE OJR-2 PI CURVE OJR-2 PT CURVE OJR-2 PC CURVE OJR-3 PI CURVE OJR-3	301+09.11 301+35.55 301+35.55 301+81.52 302+16.90 303+47.63 303+78.82	541.811.387 541.837.197 541.837.197 541.881.739 541.909.875 541.989.889 541.989.889 542.008.977	1.375.521.564 1.375.514.973 1.375.514.973 1.375.503.599 1.375.539.954 1.375.643.343 1.375.668.007
PI CURVE OJR-1 PT CURVE OJR-1 PC CURVE OJR-2 PI CURVE OJR-2 PT CURVE OJR-2 PC CURVE OJR-3 PI CURVE OJR-3 PCC CURVE OJR-3	301+09.11 301+35.55 301+35.55 301+81.52 302+16.90 303+47.63 303+78.82 304+09.78	541.811.387 541.837.197 541.837.197 541.881.739 541.909.875 541.989.889 542.008.977 542.032.786	1,375,521,564 1,375,514,973 1,375,514,973 1,375,503,599 1,375,539,954 1,375,643,343 1,375,668,007 1,375,688,151
PI CURVE OJR-1 PT CURVE OJR-1 PC CURVE OJR-2 PI CURVE OJR-2 PT CURVE OJR-2 PC CURVE OJR-3 PI CURVE OJR-3 PCC CURVE OJR-3 PCC CURVE OJR-4	301+09.11 301+35.55 301+35.55 301+81.52 302+16.90 303+47.63 303+78.82 304+09.78 304+09.78	541.811.387 541.837.197 541.837.197 541.881.739 541.909.875 541.989.889 542.008.977 542.032.786 542.032.786	1,375,521,564 1,375,514,973 1,375,514,973 1,375,503,599 1,375,539,954 1,375,643,343 1,375,668,007 1,375,688,151 1,375,688,151
PI CURVE OJR-1 PT CURVE OJR-1 PC CURVE OJR-2 PI CURVE OJR-2 PT CURVE OJR-2 PC CURVE OJR-3 PI CURVE OJR-3 PCC CURVE OJR-3 PCC CURVE OJR-4 PI CURVE OJR-4	301+09.11 301+35.55 301+35.55 301+81.52 302+16.90 303+47.63 303+78.82 304+09.78 304+09.78 304+46.47	541.811.387 541.837.197 541.837.197 541.881.739 541.909.875 541.989.889 542.008.977 542.032.786 542.032.786 542.060.794	1,375,521,564 1,375,514,973 1,375,514,973 1,375,503,599 1,375,539,954 1,375,643,343 1,375,668,007 1,375,688,151 1,375,688,151 1,375,711,848
PI CURVE OJR-1 PT CURVE OJR-1 PC CURVE OJR-2 PI CURVE OJR-2 PT CURVE OJR-2 PC CURVE OJR-3 PI CURVE OJR-3 PCC CURVE OJR-3 PCC CURVE OJR-4 PI CURVE OJR-4	301+09.11 301+35.55 301+35.55 301+81.52 302+16.90 303+47.63 303+78.82 304+09.78 304+09.78 304+46.47 304+74.49	541.811.387 541.837.197 541.837.197 541.881.739 541.909.875 541.989.889 542.008.977 542.032.786 542.032.786 542.060.794 542.093.432	1,375,521,564 1,375,514,973 1,375,514,973 1,375,503,599 1,375,539,954 1,375,643,343 1,375,668,007 1,375,688,151 1,375,688,151 1,375,688,151 1,375,711,848 1,375,695,091
PI CURVE OJR-1 PT CURVE OJR-1 PC CURVE OJR-2 PI CURVE OJR-2 PT CURVE OJR-2 PT CURVE OJR-3 PI CURVE OJR-3 PCC CURVE OJR-3 PCC CURVE OJR-4 PI CURVE OJR-4 PT CURVE OJR-4 PC CURVE OJR-5	301+09.11 301+35.55 301+35.55 301+81.52 302+16.90 303+47.63 303+78.82 304+09.78 304+09.78 304+09.78 304+46.47 304+74.49 304+87.42	541.811.387 541.837.197 541.837.197 541.881.739 541.909.875 541.989.889 542.008.977 542.032.786 542.032.786 542.032.786 542.060.794 542.093.432 542.104.935	1,375,521,564 1,375,514,973 1,375,514,973 1,375,503,599 1,375,539,954 1,375,643,343 1,375,668,007 1,375,688,151 1,375,688,151 1,375,688,151 1,375,689,185

CURVE DATA						
CURVE NO.	DELTA	DEGREE	RADIUS	TANGENT	LENGTH	EXTERNAL
DORSEY RUN ROAD						
DRR-1	0°19'55.69"LT	1°54′35.49″	3,000.00'	8.70'	17.39'	0.01
DRR-2	20°44'57.08"LT	6°44'26.45"	850.00'	155.61'	307.82'	14.13
DRR-3	19°59′59.96″LT	5°43′46.48″	1,000.00'	176.33′	349.07'	15.43
RELOCATED OLD JESSUP ROAD						
OJR-1	12°09'50.80" RT	22°55′05.92″	250.00'	26.64'	53.08'	1.42
OJR-2	66°35′16.75″RT	81°51′04.01"	70.00′	45.97'	81.35'	13.75
OJR-3	12°01′46.03″ LT	19°21′24.06″	296.00'	31.19'	62.15'	1.64
OJR-4	67°24'38.18" LT	104°10′26.92″	55.00'	36.69'	64.71'	11.11
OJR-5	13°32'43.00" LT	28°38′52.40″	200.00'	23.75'	47.28′	1.41



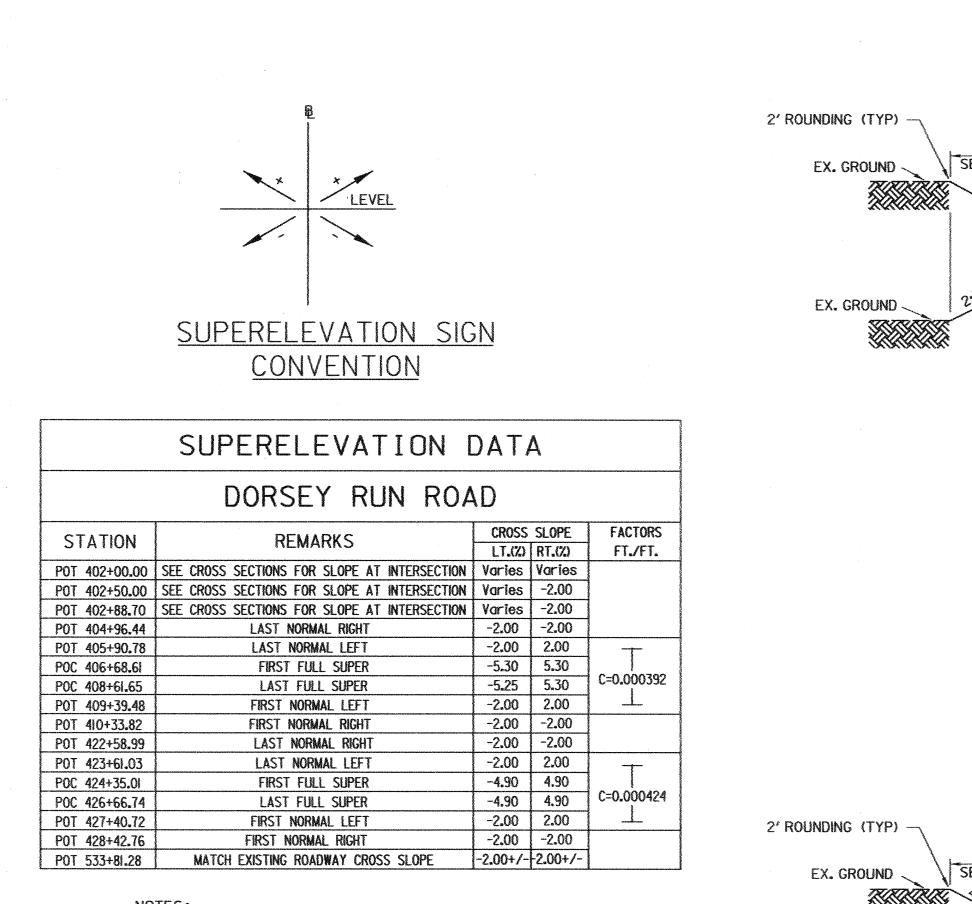
TRA	AVERSE	POINTS	
DESIGNATION	ELEVATION	NORTHING	EASTING
TRAVERSE POINT 12	219.26	541937.0140	1375215.7710
TRAVERSE POINT 13	198.34	541881.6640	1375476.6840
TRAVERSE POINT 14	0.00	542711.9229	1375111.6137
TRAVERSE POINT 19	194.55	541651.1364	1375613.1164
TRAVERSE POINT 20	186.95	541409.7583	1375738.0513
TRAVERSE POINT 22	190.13	541381.2023	1375702.2554
TRAVERSE POINT 23	195.94	541665.0333	1375569.7921
TRAVERSE POINT 24	215.46	541678.1229	1375201.3401
TRAVERSE POINT 25	200.53	542028.1620	1375438.3836
TRAVERSE POINT 26	196.39	542155.6859	1375600.9109
TRAVERSE POINT 27	203.36	542343.3987	1375797.2815
TRAVERSE POINT 28	228.83	542558.7035	1375901.7540
TRAVERSE POINT 29	229.25	542660.6367	1375983.1349
TRAVERSE POINT 30	226.85	542882.6069	1376116.2038
TRAVERSE POINT 31	220.25	543047.2923	1376210.0963
TRAVERSE POINT 32	214.04	543237.7113	1376340.2850
TRAVERSE POINT 33	212.61	543454.1161	1376490.1954
TRAVERSE POINT 34	230.74	543780.6342	1376631.3619
TRAVERSE POINT 35	223.09	543996.2933	1376822.3337
TRAVERSE POINT 36	200.12	544353.4860	1376858.9042
TRAVERSE POINT 41	207.90	542341.8097	1375905.9349
TRAVERSE POINT 43	227.92	542546.2987	1376081.7465
TRAVERSE POINT 44	225.98	542724.6177	1376182.1353
TRAVERSE POINT 45	221.89	542900.8037	1376281.9249
TRAVERSE POINT 46	211.64	543051.9054	1376420.4749
TRAVERSE POINT 47	207.22	543218.9628	1376521.9236
TRAVERSE POINT 48	221.51	543471.6760	1376639.4101
TRAVERSE POINT 49	230.41	543606.8943	1376760.1924





CROSS REFERENCE	S
ITEM	SHEET NUMBERS
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48-0 , -4 48-05,  8.	
NEERING, INC.	



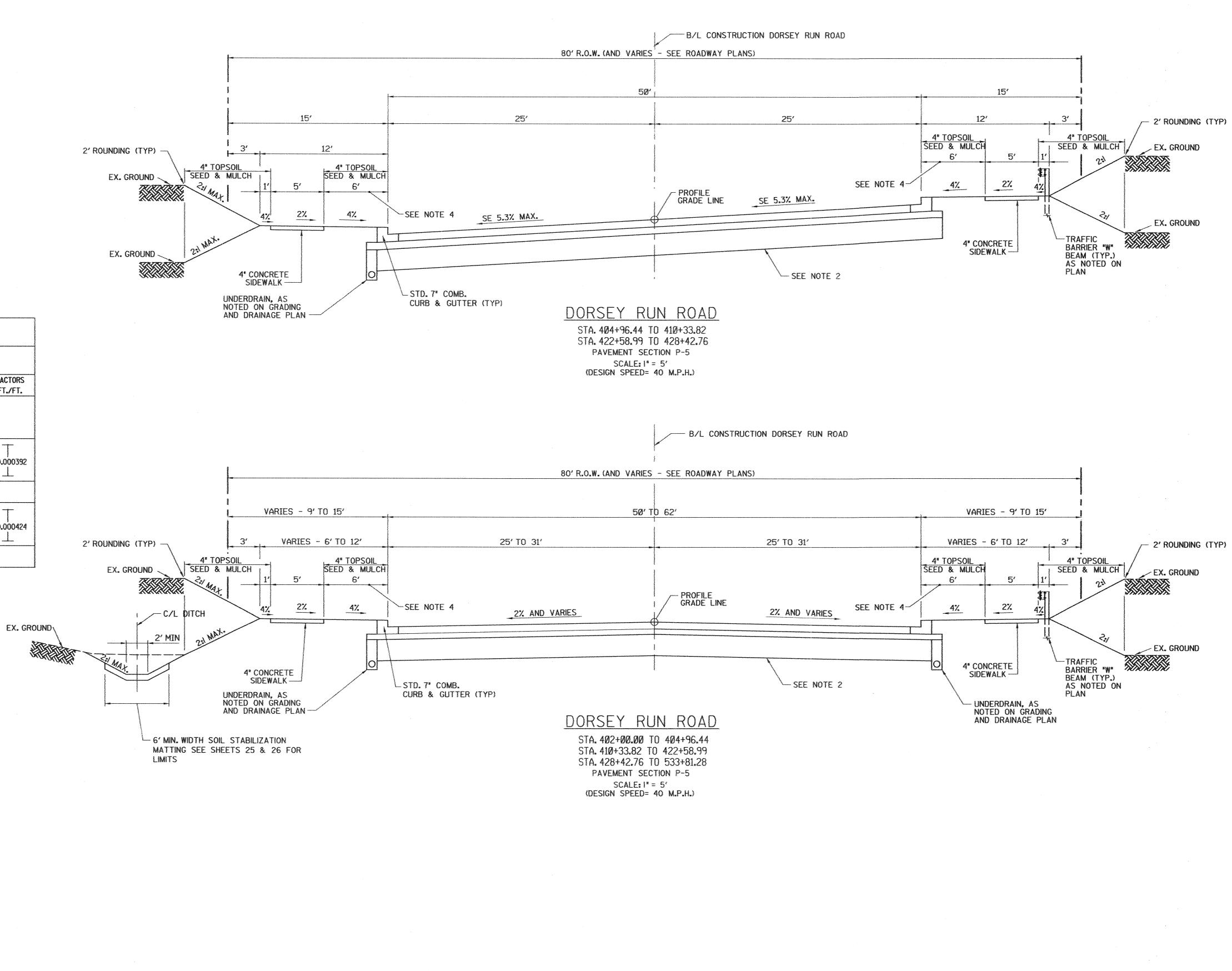
NOTES:

1. FOR SUPERELEVATION DIAGRAM SEE SHEET 7.

2. THE CONTRACTOR WILL EXCAVATE ALL UNSUITABLE MATERIAL AND REPLACE WITH SELECT BACKFILL OR ON-SITE MATERIAL.

3. SEE ROADWAY PLAN FOR LIMITS OF TRAFFIC BARRIER 'W' BEAM

4. DISTANCE BETWEEN CURB AND SIDEWALK MAY VARY -SEE PLAN FOR TRANSITION AREAS.





CHIEF, BUREAU OF HIGHWAYS

12-15-06

12/15/01

DATE

WORKS

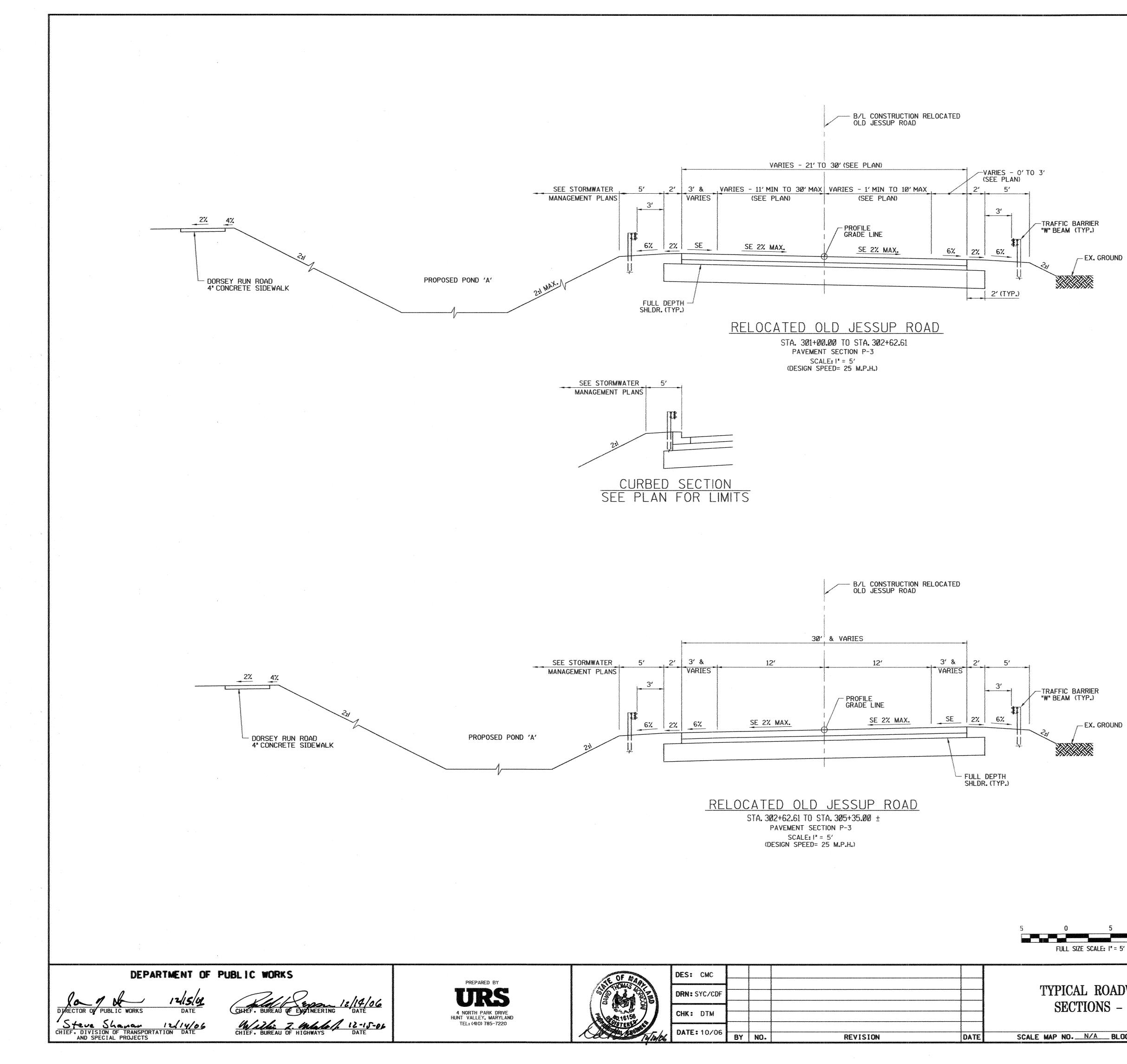
CHIEF. DIVISION OF TRANSPORTATION DATE

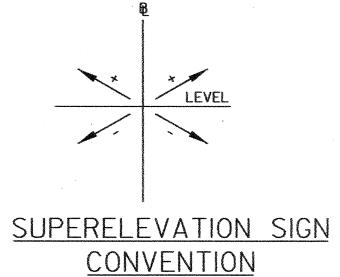
AND SPECIAL PROJECTS



A S AS ANTIMAL
STE LOWAS SPA
3 40 16150
STRALL ST
A 10 12/12/06

					5 0 5 10 FULL SIZE SCALE: 1" = 5'		
DES: CMC DRN: SYC/CDF					TYPICAL ROADWAY	DORSEY RUN ROAD EXTENSION MD 175 TO	SCALE 1″ = 5′
CHK: DTM					SECTIONS – I	DORSEY RUN INDUSTRIAL CENTER ELECTION DISTRICT NO. 1 - JESSUP, MARYLAND	
DATE: 10/06	BY	NO.	REVISION	DATE	SCALE MAP NO. N/A BLOCK NO.	CAPITAL PROJECT J-4148-C 0:\20829544\CAD\draft\ts0ldrr.dgn  2/	<u>5</u> OF <u>74</u> 2/2006 12:53:13 PM Fleming





#### SUPERELEVATION DATA OLD RELOCATED JESSUP ROAD FACTORS STATION REMARKS FT./FT. POC 301+00.00 MATCH EXISTING CROSS SLOPE POC 301+57.21 FIRST FULL SUPER 2.00 -2.00 C=0.000482 POC 301+79.69 LAST FULL SUPER -2.00 -2.00 POT 302+62.61 FIRST NORMAL LEFT/RIGHT -2.00 -2.00 T LAST NORMAL LEFT/RIGHT POT 302+62.61 -2.00 2.00 C=0.000314 POC 303+89.91 FIRST FULL SUPER -2.00 2.00 POC 304+50.00 LAST FULL SUPER POC 305+00.00 SEE CROSS SECTIONS FOR SLOPE AT DORSEY RUN RD. Varies Varies POT 305+37.94 SEE CROSS SECTIONS FOR SLOPE AT DORSEY RUN RD. Varies Varies

NOTES:

1. FOR SUPERELEVATION DIAGRAM SEE SHEET 7.

2. THE CONTRACTOR WILL EXCAVATE ALL UNSUITABLE MATERIAL AND REPLACE WITH SELECT BACKFILL OR ON-SITE MATERIAL.

3. SEE ROADWAY PLAN FOR LIMITS OF TRAFFIC BARRIER 'W' BEAM

5 I0 I' = 5'		
DADWAY	DORSEY RUN ROAD EXTENSION MD 175 TO	SCALE 1″ = 5′
S – II block No	DORSEY RUN INDUSTRIAL CENTER ELECTION DISTRICT NO. 1 - JESSUP, MARYLAND CAPITAL PROJECT J-4148-C	SHEET 60F74
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				COORDIN	IATE TABLE	ar F		
POINT	BASELINE	S	TATION	OFFSET	NORTH	EAST	ELEV.	REN
00	DORSEY RUN ROAD	PC	401+36.61	74.76'RT.	541,785.609	1,375,239.080	215.95+/-	MATCH
01	DORSEY RUN ROAD	POC	401+66.10	42.81'RT.	541,828.735	1,375,244.580	216.85	HIC
02	DORSEY RUN ROAD	PT	402+07.94	31.00'RT.	541,862.616	1.375.271.822	216.41	
03	DORSEY RUN ROAD	PC	402+67.87	31.00'RT.	541,897.364	1,375,320.658	215.10	
04	DORSEY RUN ROAD	PC	402+85.26	31.00'RT.	541,907.590	1.375.334.944	214.52	
05	DORSEY RUN ROAD	PC	403+22.65	31.00'LT.	541,979.753	1,375,329.049	213.95	
06	DORSEY RUN ROAD	PCC	402+73.26	39.92'LT.	541,958.234	1,375,283.871	215.88	t
07	DORSEY RUN ROAD	PCC	402+34.09	100.11'LT.	541,984.603	1.375.217.124	219.77	
08	DORSEY RUN ROAD	PT	402+50.41	159.04'LT.	542,042.088	1,375,196.257	221.33+/-	MATCH
09	DORSEY RUN ROAD	PT	402+11.46	65.45'LT.	541,943.241	1,375,218.775	219.01	
10	DORSEY RUN ROAD	PC	401+98.68	37.84'LT.	541,913.343	1,375,224.374	218.28	
11	DORSEY RUN ROAD	PT	402+00.50	35.00'LT.	541,912.082	1,375,227.500	217.90	
12	DORSEY RUN ROAD	PC	402+26.91	35.00'LT.	541,927.392	1,375,249.017	216.99	
13	DORSEY RUN ROAD	PT	402+30.74	43.21'LT.	541,936.304	1,375,247.378	217.56	<b></b>
14	DORSEY RUN ROAD	PCC	402+21.03	57.64'LT.	541,942,435	1,375,231.105	218.21	
15	DORSEY RUN ROAD	PC	402+16.83	65.59'LT.	541,946.474	1,375,223.072	218.68	
16	DORSEY RUN ROAD	POT	404+04.77	60.67'LT.	542,051.818		202.53	
17	DORSEY RUN ROAD	PC	404+04.57	78.67'LT.	542,066.309	1,375,367.660	202.74	<u> </u>
18	DORSEY RUN ROAD	PT	404+17.93	90.16'LT.	542,083.443	1,375,371.782	202.54	<b> </b>
19	DORSEY RUN ROAD	POT	404+21.11	107.68'LT.	542,099.514	1.375.364.124	202.92	<b></b>
20	DORSEY RUN ROAD	POT	404+42.14	103.98'LT.	542,108.806	1,375,383.355	202.84	İ
21	DORSEY RUN ROAD	PC	404+40.68	95.64'LT.	542,101.184	1,375,387.037	202.70	<b> </b>
22	DORSEY RUN ROAD	PT	404+54.62	79.22'LT.	542,096.005	1,375,407.950	202.07	
23	DORSEY RUN ROAD	POT	404+77.95	79.47'LT.	542,109.852	1,375,426.734		<u> </u>
24	DORSEY RUN ROAD	POT	404+78.15	61.48'LT.	542,095.363	1,375,437.414		<u> </u>
25	DORSEY RUN ROAD		404+34.52	60.99'LT.	542,069.474	1,375,402.294	3	<b></b>
26	DORSEY RUN ROAD	POT	404+13.27	60.76'LT.	542,056.863	1,375,385.185		
27	DORSEY RUN ROAD		403+54.94	58.08'LT.	542,020.596	1,375,339.418		MATCH
28	DORSEY RUN ROAD	وجوية ومعاشرهم بالرواب المائية فالمراجع المراجع والأرماني	403+30.22	70.27'LT.	542,016.038	1,375,312.238		1
29	DORSEY RUN ROAD		403+11.55	61.84'LT.	541,998.291	1,375,302.016		
30	DORSEY RUN ROAD	****	402+84.69	41.45'LT.	541,966.047	1,375,292.149		
31	DORSEY RUN ROAD		403+37.59	31.00'LT.	541,988.480	1,375,341.165		İ
32	DORSEY RUN ROAD	POT	400+98.34	33.00'RT.	541,797.452	1,375,183.686		MATCH
33	DORSEY RUN ROAD	POT	401+09.00	33.00'RT	541.803.628	1,375,192.366	*****	MATCH
34	DORSEY RUN ROAD		401+11.68	37.34'RT	541,801.652	1.375.197.068		MATCH
35	DORSEY RUN ROAD		401+04.03	52.72'RT	541,784.683	1.375.199.751		MATCH
36	DORSEY RUN ROAD		400+98.45	52.18'RT	541,781.889	1,375,194.894		MATCH
37	DORSEY RUN ROAD		400+93.87	40.24'RT	541.788.963	1,375,184.237		MATCH

# NOTES:

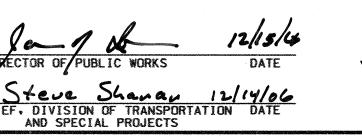
- I. ALL CURB LOCATIONS ARE SHOWN TO THE BOTTOM FACE OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- 2. SEE UTILITY PLANS AND SIGNAL PLANS FOR UTILITY INFORMATION.
- 3. SEE GRADING & DRAINAGE PLANS AND DRAINAGE PROFILES FOR DRAINAGE INFORMATION.
- 4. FOR GUARDRAIL INFORMATION SEE TYPICAL ROADWAY DETAILS.

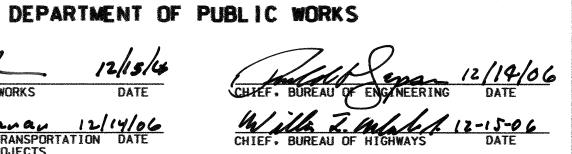
# LEGEND

FULL DEPTH PAVEMENT

MILL & RESURFACE PAVEMENT

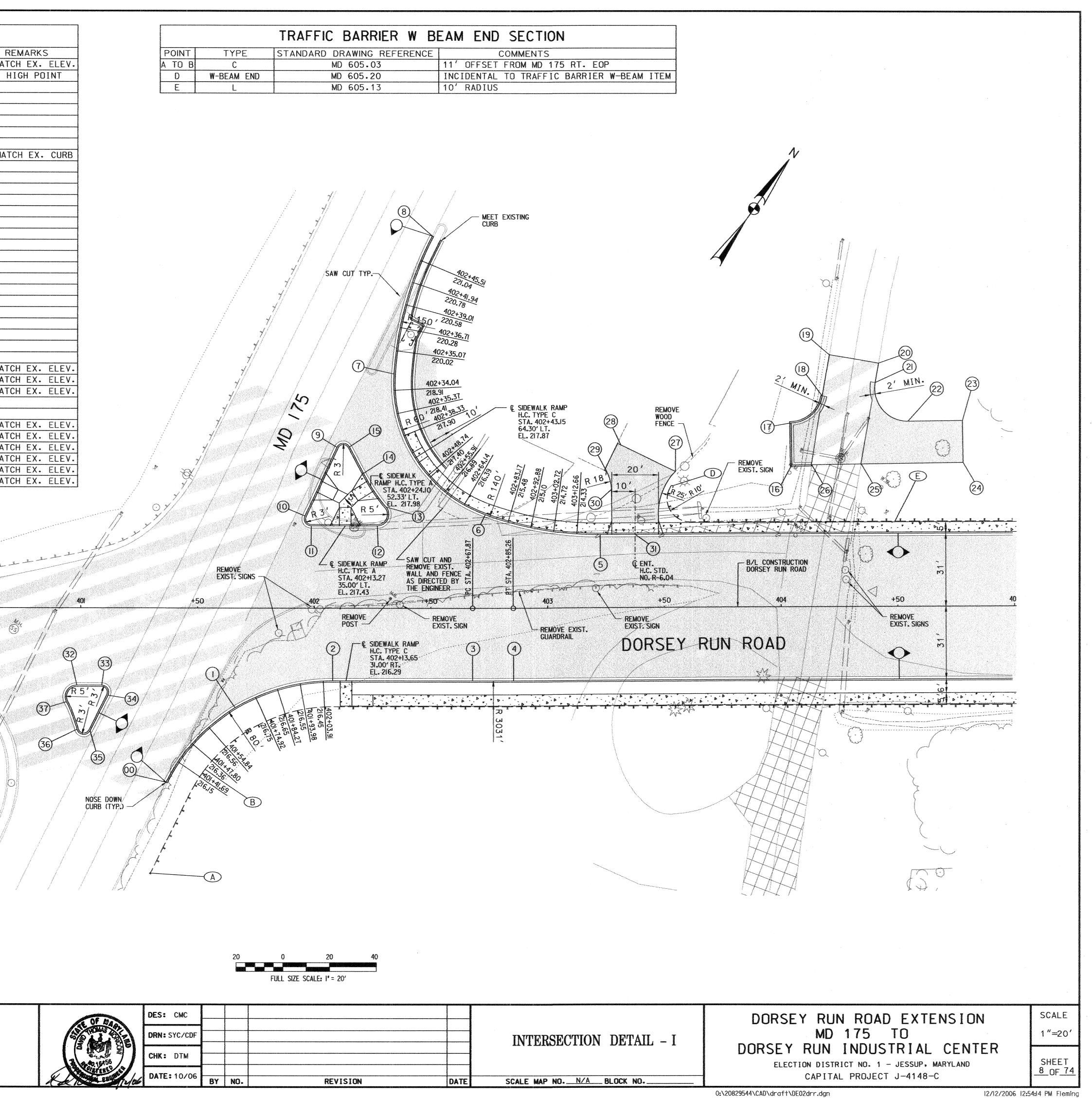
- CONCRETE SIDEWALK
- REMOVE EXISTING PAVEMENT
- STANDARD 7" COMBINATION CURB & GUTTER (R-3.01)

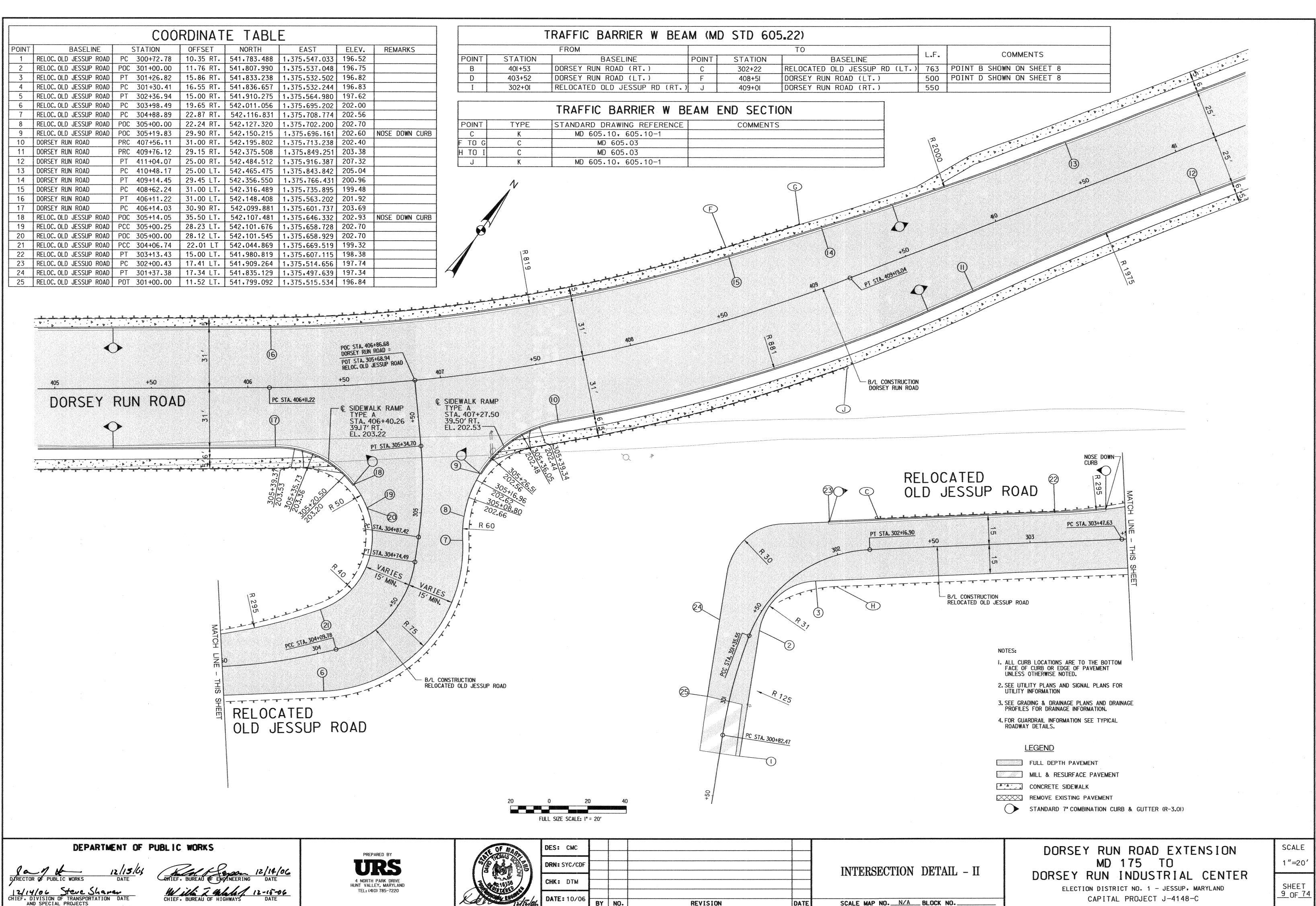






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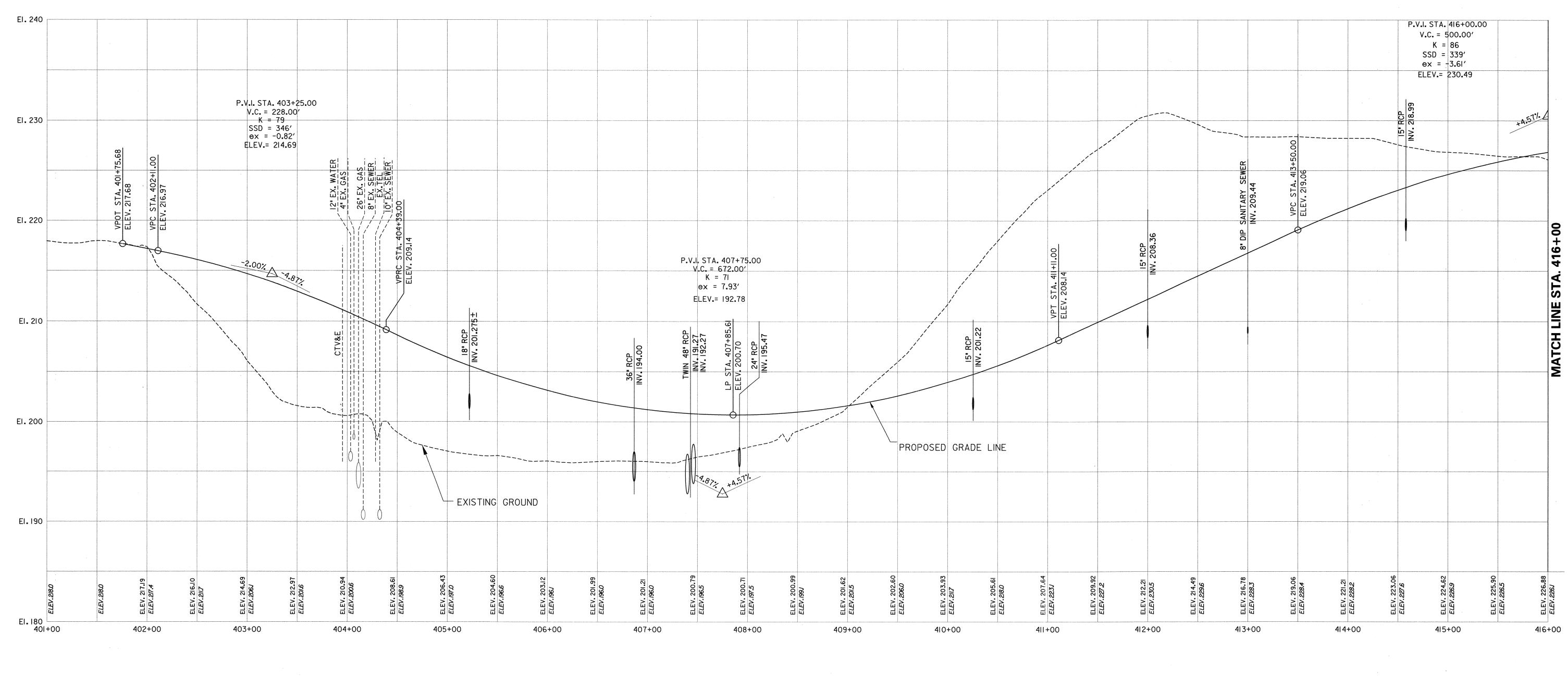






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12/15/65 DATE

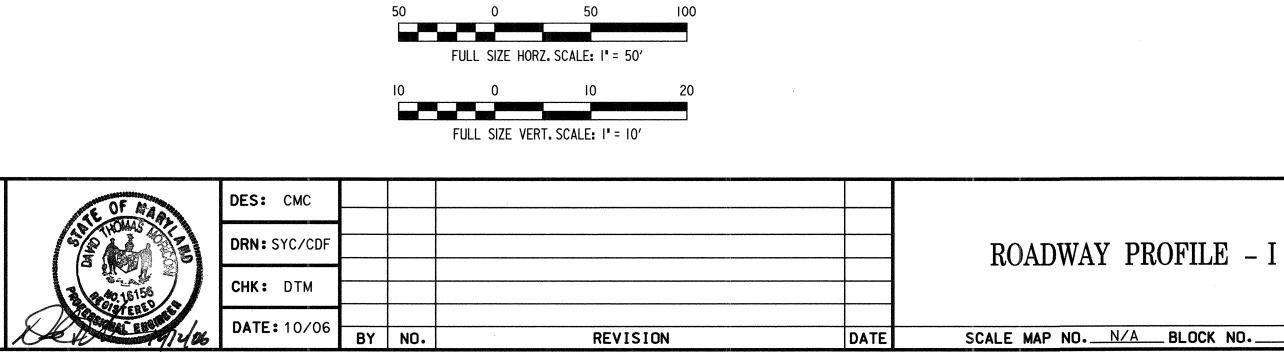
Steve Shaven 12/14/06 CHIEF, DIVISION OF TRANSPORTATION DATE AND SPECIAL PROJECTS

× .,

Mille J. Mulula CHIEF, BUREAU OF HIGHWAYS



DORSEY RUN ROAD



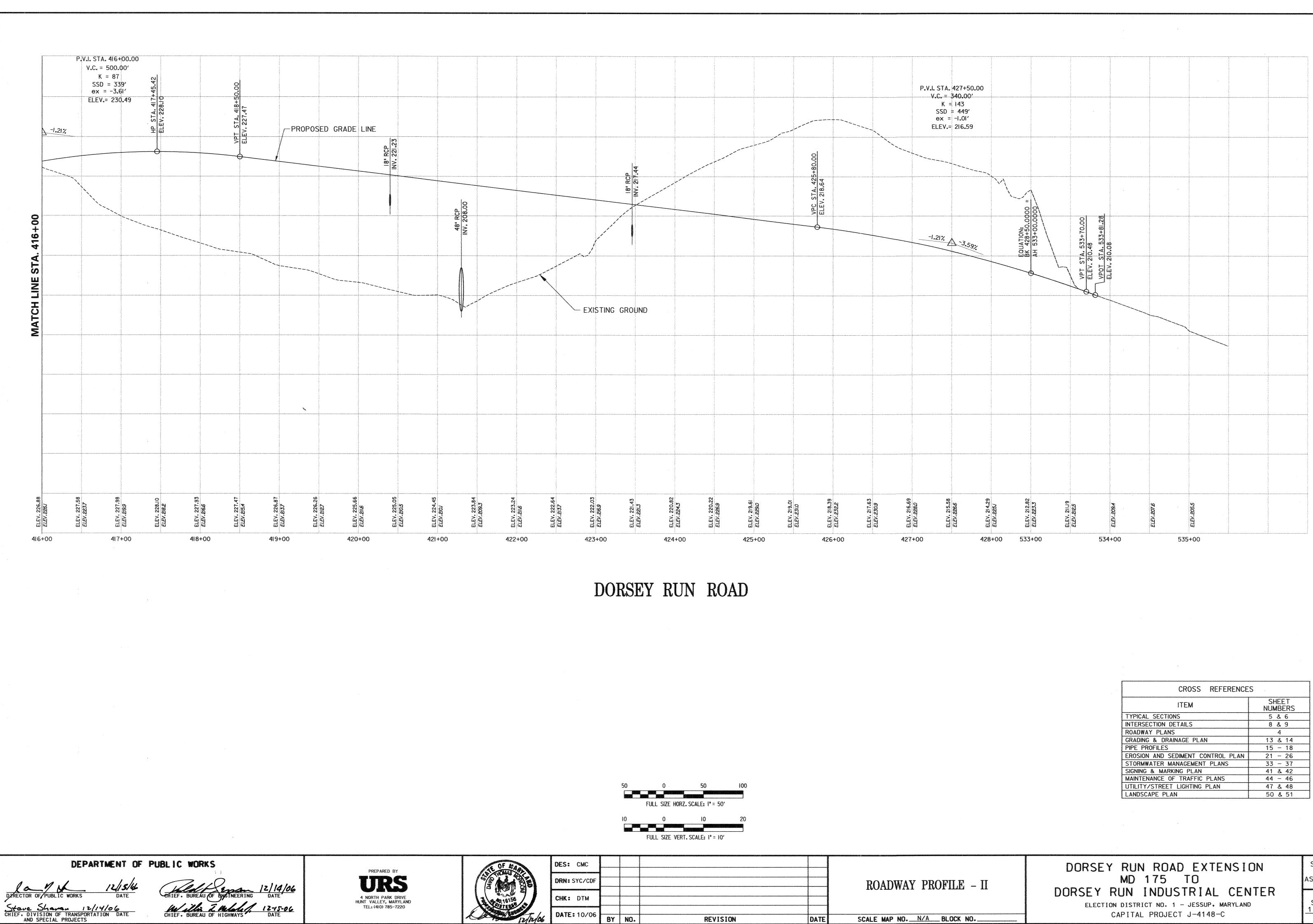
CROSS REFERENCE	S
ITEM	DRAWING NUMBERS
TYPICAL SECTIONS	5 & 6
INTERSECTION DETAILS	8 & 9
ROADWAY PLANS	3
GRADING & DRAINAGE PLAN	13 & 14
PIPE PROFILES	15 - 18
EROSION AND SEDIMENT CONTROL PLAN	21 - 26
STORMWATER MANAGEMENT PLANS	33 - 37
SIGNING & MARKING PLAN	41 & 42
MAINTENANCE OF TRAFFIC PLANS	44 - 46
UTILITY/STREET LIGHTING PLAN	47 & 48
LANDSCAPE PLAN	50 & 51

DORSEY RUN ROAD EXTENSION MD 175 TO DORSEY RUN INDUSTRIAL CENTER ELECTION DISTRICT NO. 1 - JESSUP, MARYLAND CAPITAL PROJECT J-4148-C

SCALE AS SHOWN SHEET <u>10 of 74</u>

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BY NO.

REVISION

DATE

CROSS REFERENCE	S
ITEM	SHEET NUMBERS
TYPICAL SECTIONS	5 & 6
INTERSECTION DETAILS	8 & 9
ROADWAY PLANS	4
GRADING & DRAINAGE PLAN	13 & 14
PIPE PROFILES	15 - 18
EROSION AND SEDIMENT CONTROL PLAN	21 - 26
STORMWATER MANAGEMENT PLANS	33 - 37
SIGNING & MARKING PLAN	41 & 42
MAINTENANCE OF TRAFFIC PLANS	44 - 46
UTILITY/STREET LIGHTING PLAN	47 & 48
LANDSCAPE PLAN	50 & 51

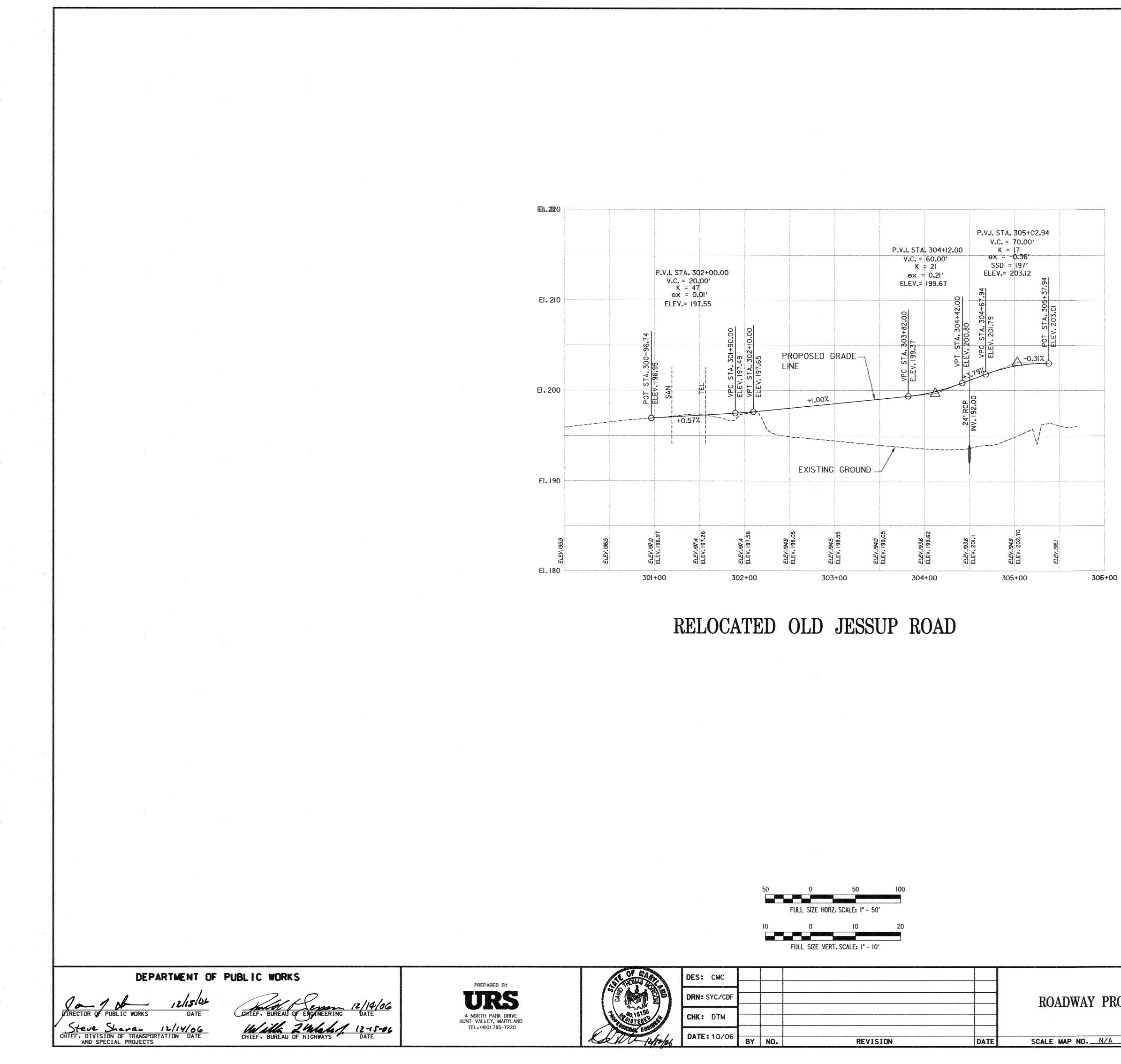
CAPITAL PROJECT J-4148-C

SCALE AS SHOWN SHEET \_<u>11</u>0F\_74

SCALE MAP NO. N/A BLOCK NO.

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			50	0 FULL SIZE HOR2	50 2. SCALE: 1" = 50"	100				
				0 FULL SIZE VER	10 F. SCALE: 1" = 10"	20				
STE OF BAR	DES: CMC							_		
	DRN: SYC/CDF							- R	ADWAY I	PROFILE – II
78 40,16150 98 (19,16150) 99 (19,16150)	CHK: DTM							_		
KATT 12/12/06	DATE: 10/06	BY	NO.		REVIS	ION	DATE	SCALI	MAP NON	ZABLOCK NO

CROSS REFERENCE	S
ITEM	SHEET NUMBERS
TYPICAL SECTIONS	5 & 6
INTERSECTION DETAILS	8 & 9
ROADWAY PLANS	3
GRADING & DRAINAGE PLAN	13 & 14
PIPE PROFILES	15 - 18
EROSION AND SEDIMENT CONTROL PLAN	21 - 26
STORMWATER MANAGEMENT PLANS	33 - 37
SIGNING & MARKING PLAN	41 & 42
MAINTENANCE OF TRAFFIC PLANS	44 & 45
UTILITY/STREET LIGHTING PLAN	47 & 48
LANDSCAPE PLAN	50 & 51

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OFILE – III

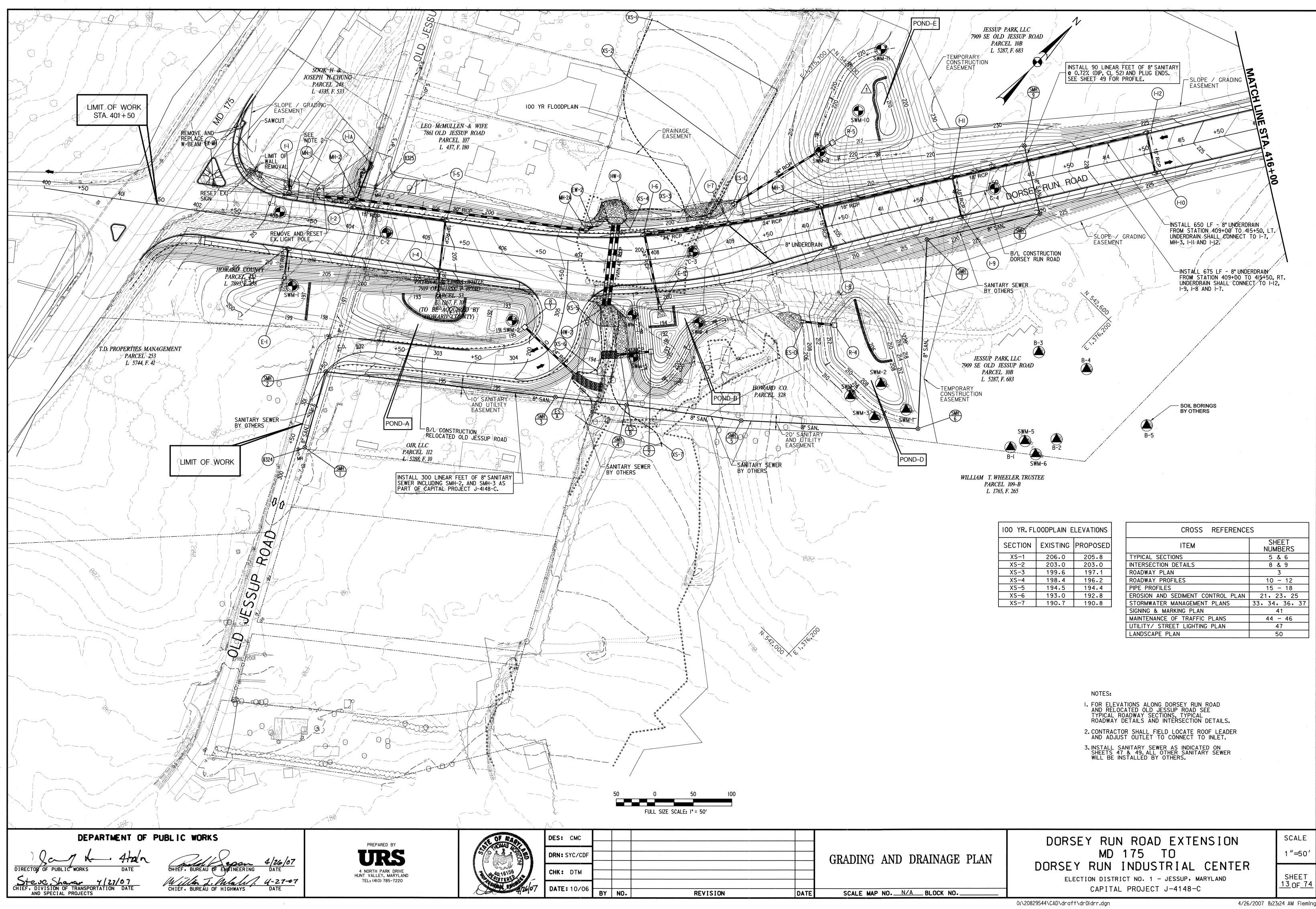
DORSEY RUN INDUSTRIAL CENTER ELECTION DISTRICT NO. 1 - JESSUP, MARYLAND CAPITAL PROJECT J-4148-C

DORSEY RUN ROAD EXTENSION MD 175 TO

SCALE AS SHOWN SHEET 12 0F\_74

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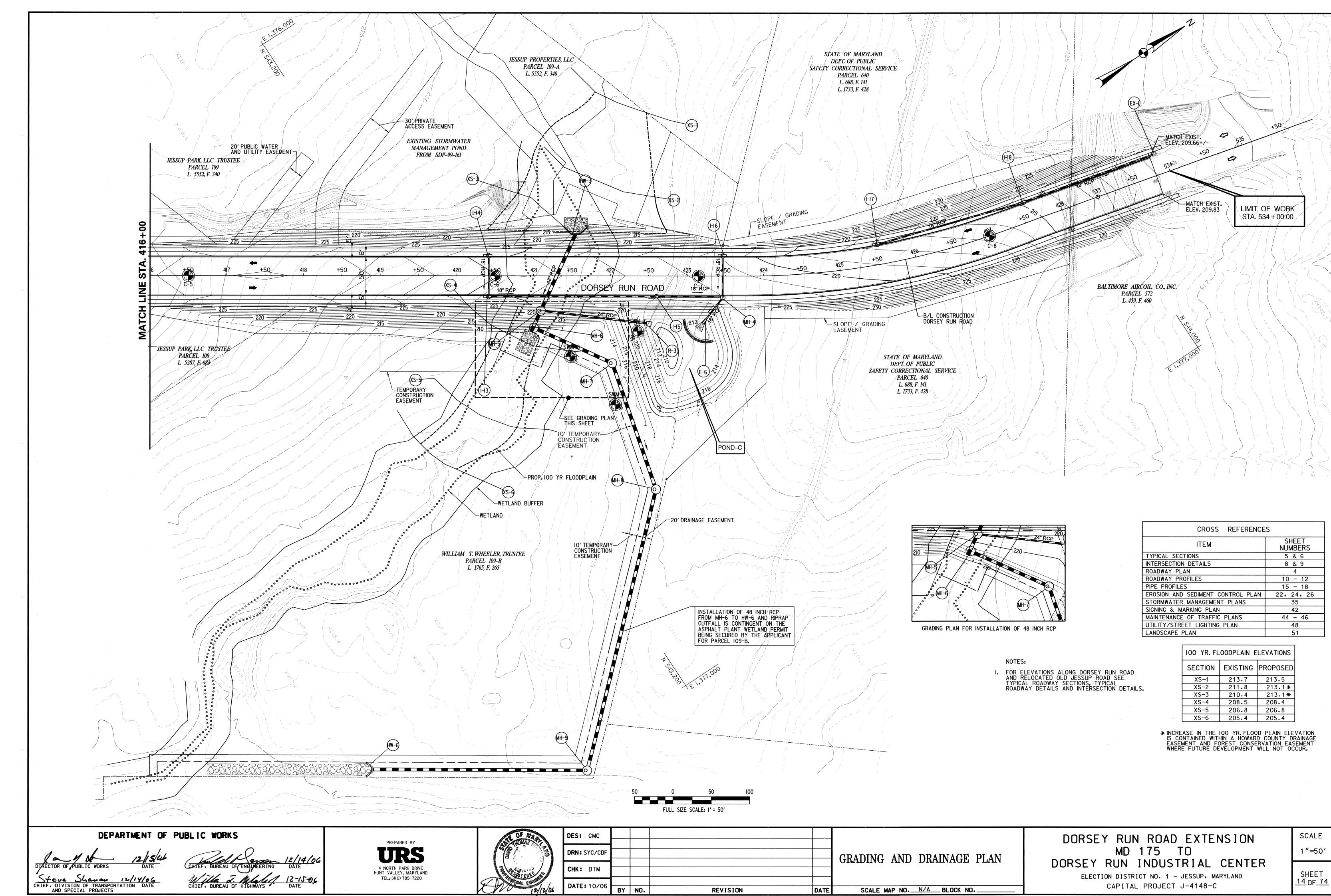


100 YR. FLOODPLAIN ELEVATIONS				
SECTION	EXISTING	PROPOSED		
XS-1	206.0	205.8		
XS-2	203.0	203.0		
XS-3	199.6	197.1		
XS-4	198.4	196.2		
XS-5	194.5	194.4		
XS-6	193.0	192.8		
XS-7	190.7	190.8		

CROSS REFERENCE	S
ITEM	SHEET NUMBERS
TYPICAL SECTIONS	5 & 6
INTERSECTION DETAILS	8 & 9
ROADWAY PLAN	3 ·
ROADWAY, PROFILES	10 - 12
PIPE PROFILES	15 - 18
EROSION AND SEDIMENT CONTROL PLAN	21, 23, 25
STORMWATER MANAGEMENT PLANS	33, 34, 36, 37
SIGNING & MARKING PLAN	41
MAINTENANCE OF TRAFFIC PLANS	44 - 46
UTILITY/ STREET LIGHTING PLAN	47
LANDSCAPE PLAN	50

SCALE 1″=50′

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	NOTES:
١.	FOR ELEVATIONS ALONG DORSEY RUN ROAD AND RELOCATED OLD JESSUP ROAD SEE TYPICAL ROADWAY SECTIONS, TYPICAL ROADWAY DETAILS AND INTERSECTION DETAILS.

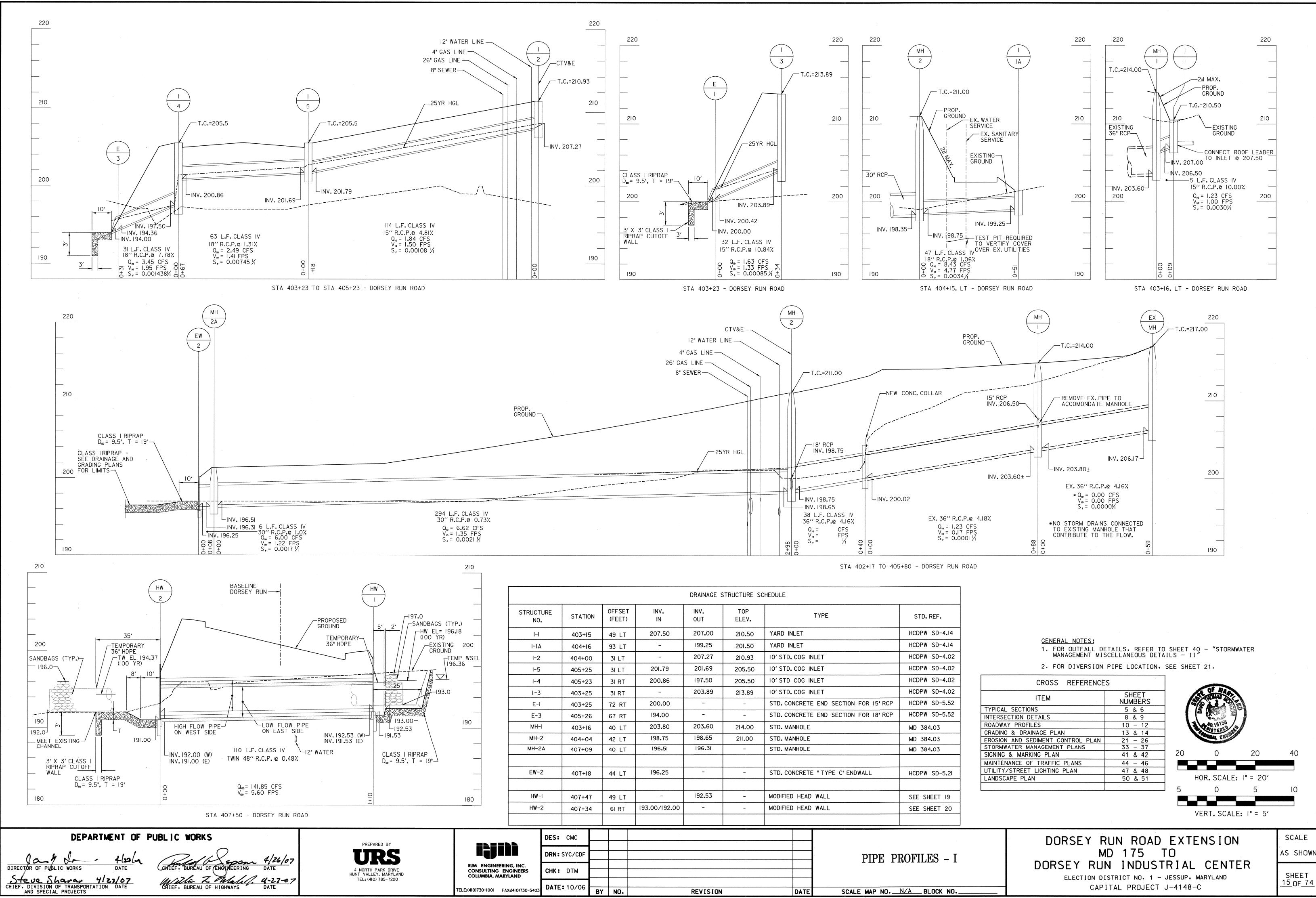
CROSS REFERENCE	S
ITEM	SHEET NUMBERS
TYPICAL SECTIONS	5 & 6
INTERSECTION DETAILS	8 & 9
ROADWAY PLAN	4
ROADWAY PROFILES	10 - 12
PIPE PROFILES	15 - 18
EROSION AND SEDIMENT CONTROL PLAN	22, 24, 26
STORMWATER MANAGEMENT PLANS	35
SIGNING & MARKING PLAN	42
MAINTENANCE OF TRAFFIC PLANS	44 - 46
UTILITY/STREET LIGHTING PLAN	48
LANDSCAPE PLAN	51

100 YR. FLOODPLAIN ELEVATIONS				
SECTION	EXISTING	PROPOSED		
XS-1	213.7	213.5		
XS-2	211.8	213.1*		
XS-3	210.4	213.1*		
XS-4	208.5	208.4		
XS-5	206.8	206.8		
XS-6	205.4	205.4		

SCALE
1 <i>"=</i> 50′
SHEET 14 <sub>0F</sub> 74

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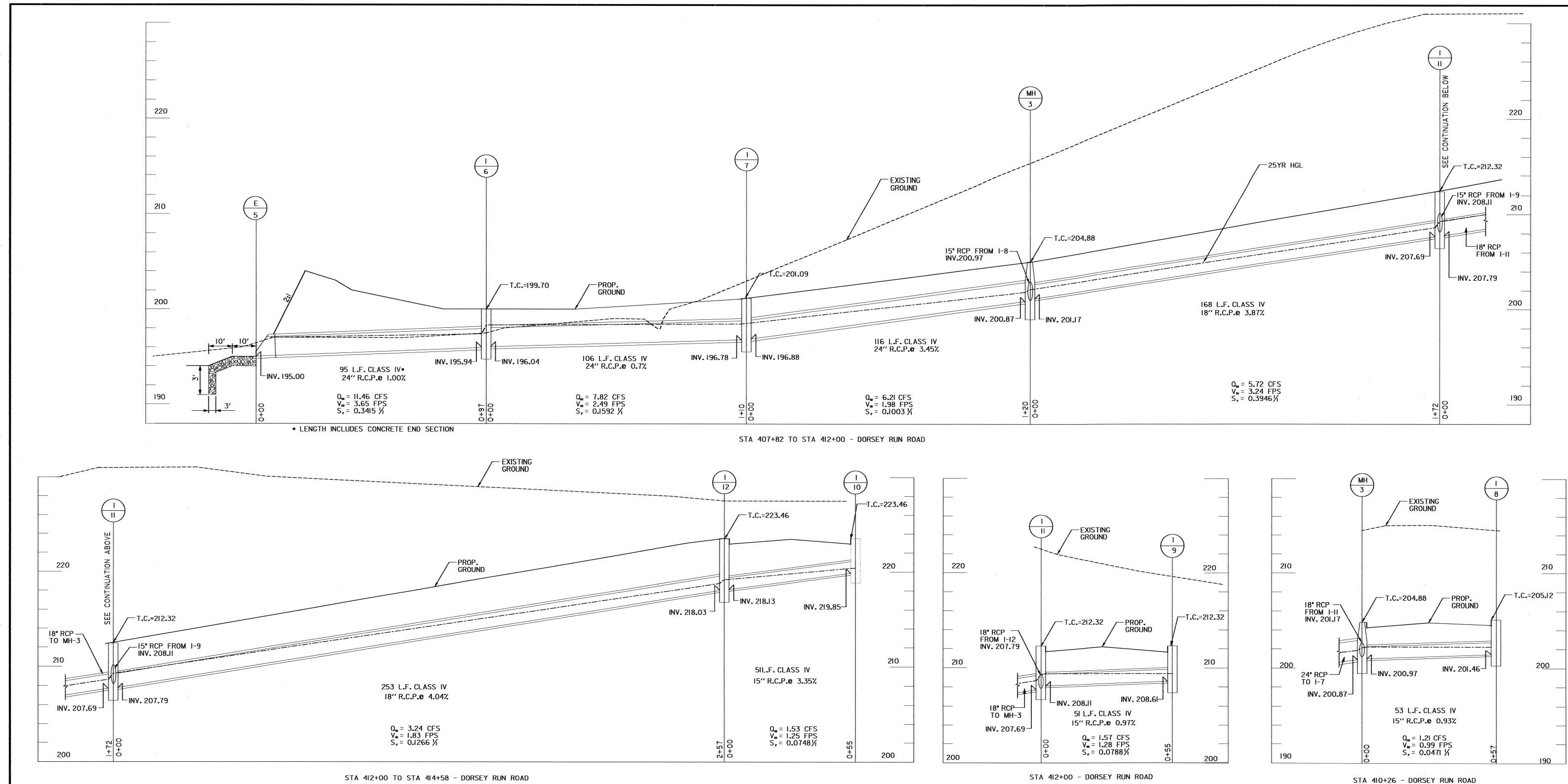
12/11/2006 7:36:49 PM Fleming



	TELE:(410)730-1001	FAX:(410)730-5403		• 10/00	BY NO.		REVISION		DATE	SCALE MAP NO	N/A
	CONSULTING COLUMBIA, MA	ENGINEERS ARYLAND	CHK:	DTM :10/06							
RJM ENGINEERING, INC.			DRN:	SYC/CDF						PIPE P	ROFI
			DES:	СМС							
	180	HW-		407+47 407+34		193.00/192.00	-	_	MODIFIED HEAD WAL		SEE SEE
		HW-	-1	407.47		. –	192.53	_	MODIFIED HEAD WAL		<u>сгг</u>
		EW-	2	407+18	44 LT	196.25	_		STD. CONCRETE " TY	PE C"ENDWALL	HCDF
		MH-2	2A	407+09	9 40 LT	196.51	196.31	-	STD. MANHOLE		MD 3
		MH-		404+04		198.75	198.65	211.00	STD. MANHOLE		MD 3
		MH-		403+16	40 LT	203.80	203.60	214.00	STD. MANHOLE		MD 3
	190	E-3		405+26	67 RT	194.00	-	-	STD. CONCRETE END	SECTION FOR 18" RCP	HCDF
		E-I		403+25	5 72 RT	200.00	-		STD. CONCRETE END	SECTION FOR 15" RCP	HCDF
3.0		1-3	j	403+25	5 3I RT	-	203.89	213.89	IO' STD. COG INLET		HCDF
7		I-4		405+23	31 RT	200.86	197 <b>.</b> 50	205.50	10' STD COG INLET		HCDF
196.	.36	I-5		405+25	5 31 LT	201.79	201.69	205.50	10' STD. COG INLET		HCDF
TEN	MP WSEL	I-2		404+00	) 31 L T	-	207.27	210.93	10' STD. COG INLET		HCDF
TING JND	200	I-IA	۱.	404+16	93 LT	-	199.25	201.50	YARD INLET		HCDF
196.	18	-		403+15	49 LT	207.50	207.00	210.50	YARD INLET		HCDF
(TYF	⊃.)	STRUCT NO		STATIO	N OFFSET (FEET)	INV. IN	INV. OUT	TOP ELEV.	TYPE	Ξ	ST
							DRAINAGE S	STRUCTURE S	CHEDULE		

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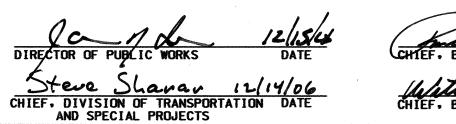
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STA 412+00 TO STA 414+58 - DORSEY RUN ROAD

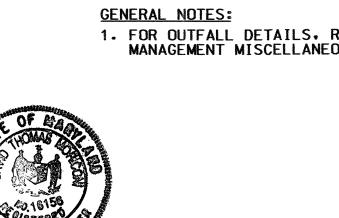
DRAINAGE STRUCTURE SCHEDULE												
STRUCTURE NO.	STATION	OFFSET (FEET)	INV. IN	INV. OUT	TOP ELEV.	TYPE	STD. REF.					
I-6	407+85	25 LT	196.04	195.94	199.70	10' STD. COG INLET	HCDPW SD-4.0					
I-7	409+04	25 LT	196.88	196.78	201.09	10' STD. COG INLET	HCDPW SD-4.0					
I-8	410+26	25 RT		201.46	205.12	10' STD COG INLET	HCPDW SD-4.0					
I-9	412+00	25 RT	-	208.61	212.32	10' STD. COG INLET	HCPDW SD-4.0					
I-10	414+59	25 RT	-	219 <b>.</b> 85	223.46	10' STD. COG INLET	HCPDW SD-4.0					
1-11	412+00	25 LT	207.79	207.69	212.32	10' STD COG INLET	HCPDW SD-4.0					
I-12	414+59	25 LT	218.13	218.03	223.46	10' STD COG INLET	HCPDW SD-4.0					
MH-3	410+26	25 LT	201.17	200.87	204.88	STD MANHOLE	MD 384.01					
È-5	408+00	65 RT	195.00	-	_	STD. CONCRETE END SECTION FOR 24" RCP	HCPDW SD-5.5					

# DEPARTMENT OF PUBLIC WORKS

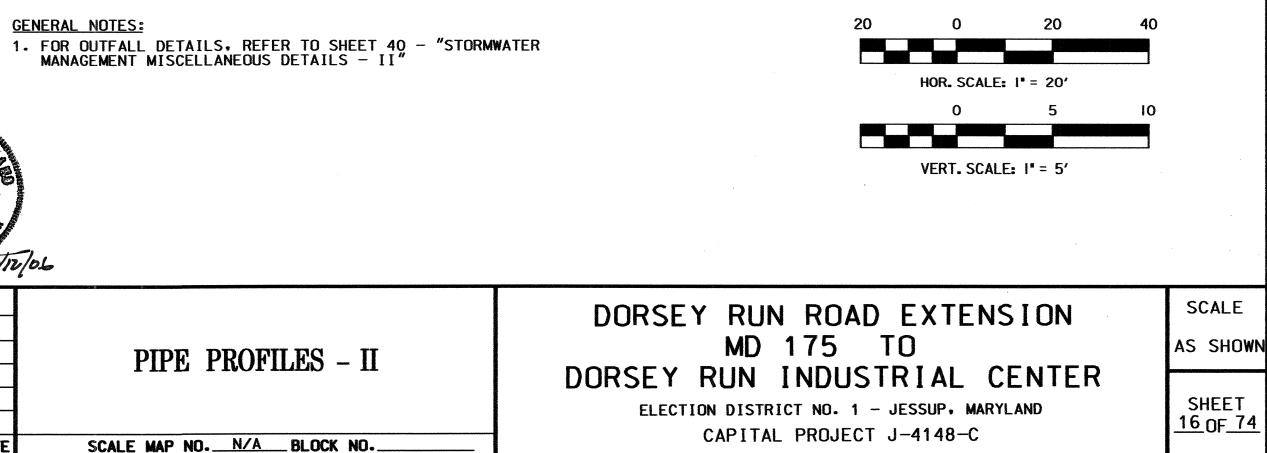




CROSS REFERENCES							
ITEM	SHEET NUMBERS						
TYPICAL SECTIONS	5 & 6						
INTERSECTION DETAILS	8 & 9						
ROADWAY PROFILES	10 - 12						
GRADING & DRAINAGE PLAN	13 & 14						
EROSION AND SEDIMENT CONTROL PLAN	21 - 26						
STORMWATER MANAGEMENT PLANS	33 - 37						
SIGNING & MARKING PLAN	41 & 42						
MAINTENANCE OF TRAFFIC PLANS	44 - 46						
UTILITY/STREET LIGHTING PLAN	47 & 48						
LANDSCAPE PLAN	50 & 51						

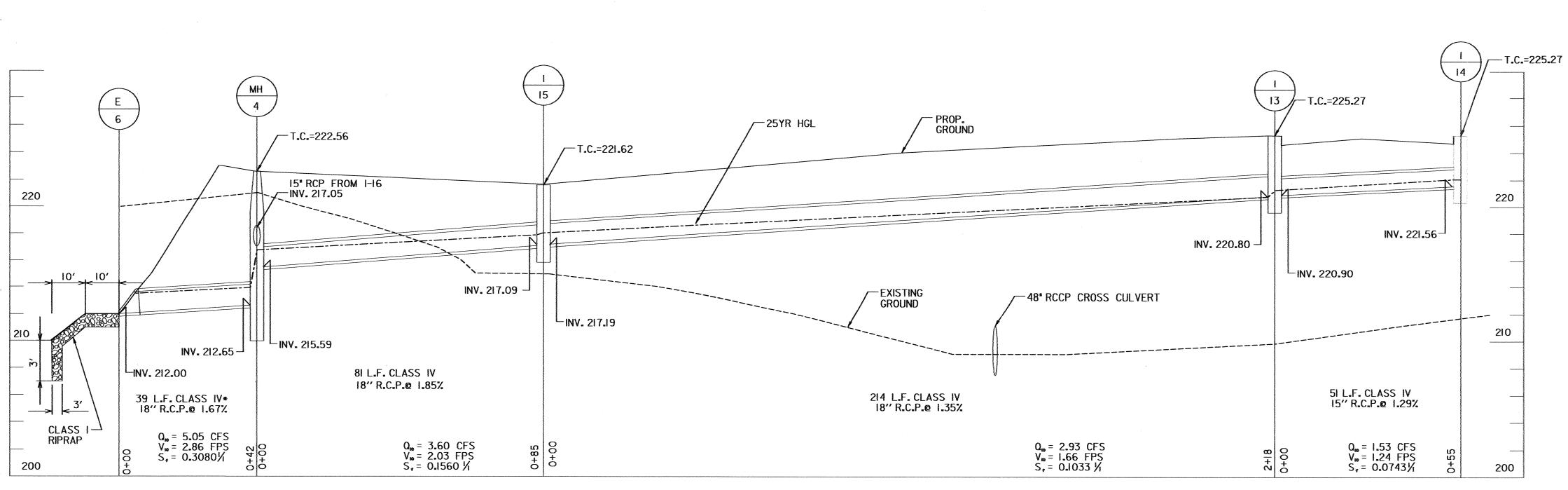


TELE:(410)730-1001 FAX:(410)730-5403	DATE: 10/06	BY	NO.	REVISION	DATE	SCALE MAP NO. N/A
RJM ENGINEERING, INC. CONSULTING ENGINEERS COLUMBIA, MARYLAND	CHK: DTM					
	DRN: SYC/CDF					PIPE PROFII
	DES: CMC					



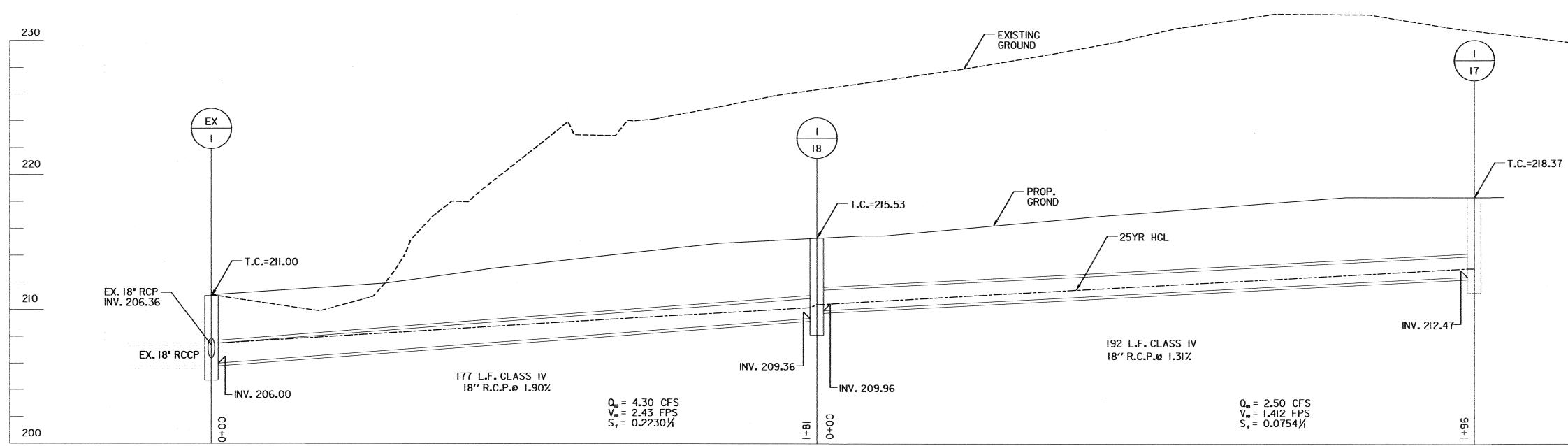
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\* INCLUDES CONCRETE END SECTION

STA 420+42 TO STA 423+47 - DORSEY RUN ROAD



		DRAINAGE STRUCTURE SCHEDULE									
		STD. REF.	ТҮРЕ	TOP ELEV.	INV. OUT	INV. IN	OFFSET (FEET)	STATION	TRUCTURE NO.		
	CROSS REFERENCES		10' STD. COG INLET	225.27	220.80	220.90	25 RT	420+41	I-I3		
SHEET		HCDPW SD-4.02	10' STD. COG INLET	225.27	221.56	-	25 LT	420+41	1-14		
NUMBERS	ITEM	HCPDW SD-4.02	10' STD COG INLET	221.62	217.09	217.19	25 RT	422+60	I-I5		
5 & 6	TYPICAL SECTIONS	HCPDW SD-4.02	10' STD. COG INLET	221.54	217.83	_	25 LT	423+47	I-16		
<u>8 &amp; 9</u> 10 - 12	INTERSECTION DETAILS ROADWAY PROFILES	MD 383.01	STD MANHOLE	222.56	212.65	215.59	25 RT	423+47	MH-4		
13 & 14	GRADING & DRAINAGE PLAN	HCPCDW SD-5.52		_		212.00	50 RT	423+16	E-6		
21 - 26	EROSION AND SEDIMENT CONTROL PLAN	HCFCDW 30-3.32	STD. CONCRETE END SECTION FOR 18" RCP		-	212.00		423710	E-0		
33 - 37	STORMWATER MANAGEMENT PLANS										
41 & 42	SIGNING & MARKING PLAN						<b>-</b>				
44 - 46	MAINTENANCE OF TRAFFIC PLANS						· · ·				
47 & 48	UTILITY/STREET LIGHTING PLAN	HCDPW SD-4.02	10' STD. COG INLET	218.37	212.47	—	25 LT	425+54	1-17		
50 & 51	LANDSCAPE PLAN	HCDPW SD-4.02	10' STD. COG INLET	215.53	209.36	209.96	25 LT	427+56	I-18		

# DEPARTMENT OF PUBLIC WORKS

12/15/02 Steve Shavan 12/14/06 CHIEF, DIVISION OF TRANSPORTATION DATE AND SPECIAL PROJECTS

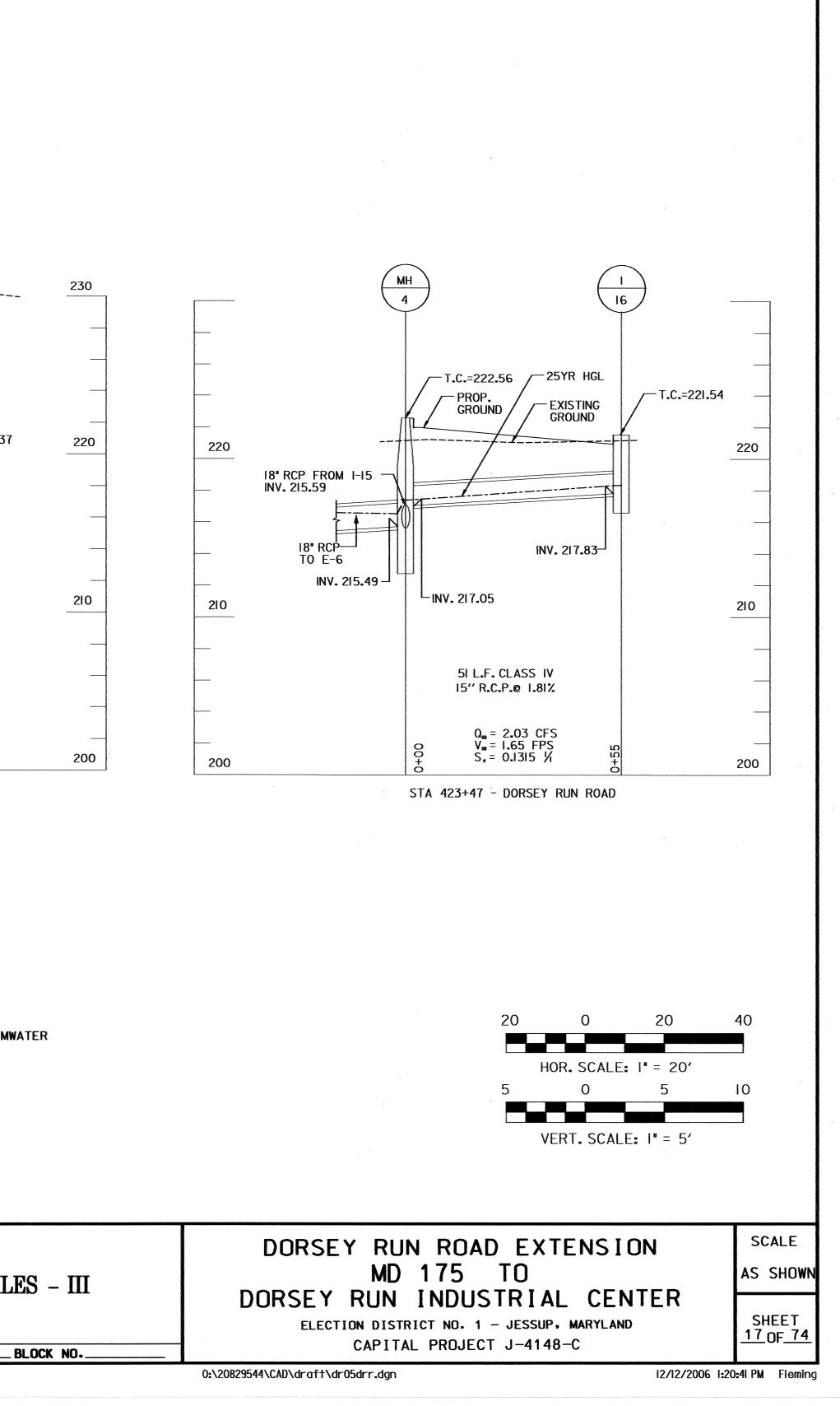


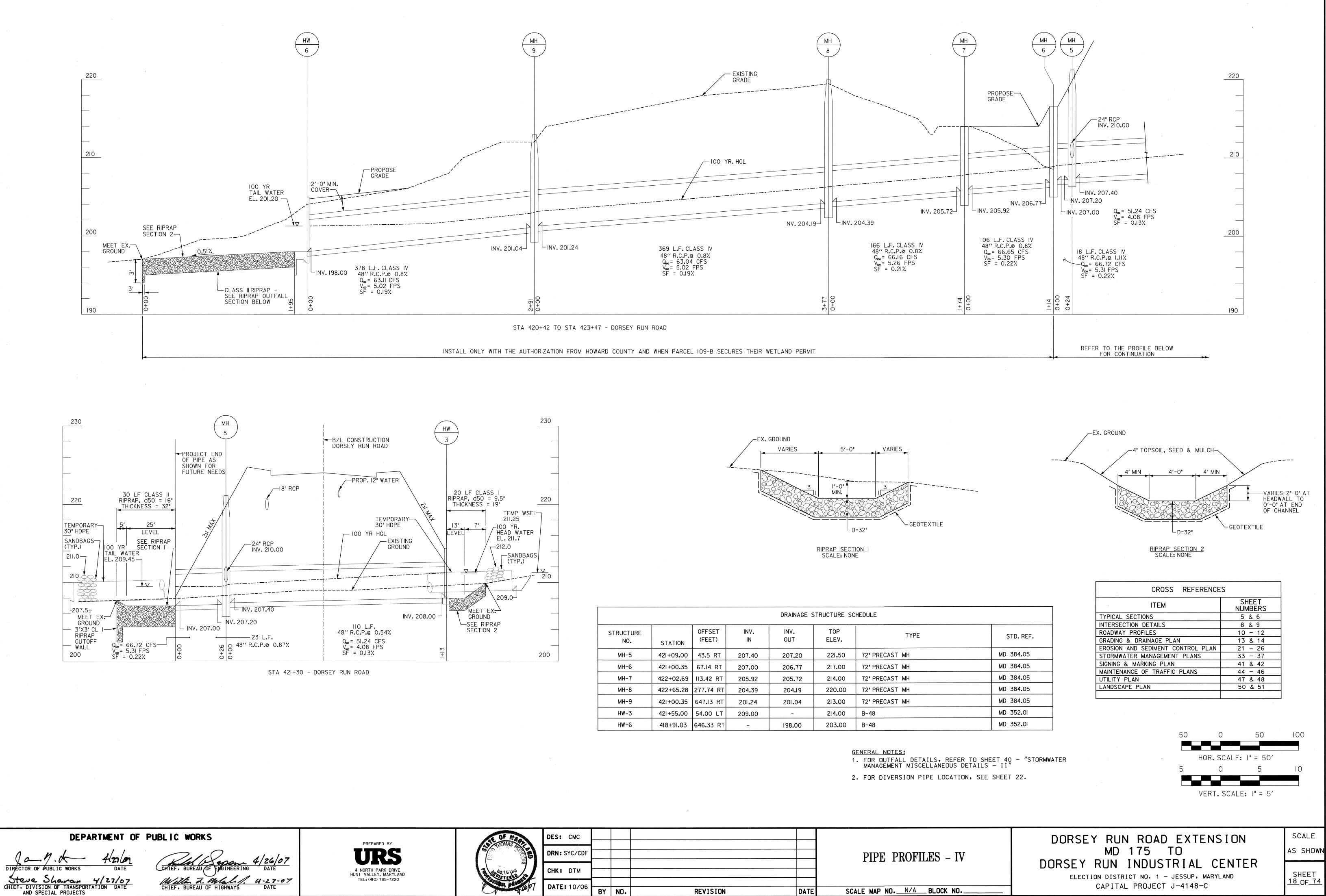
STA 425+50 TO 534+00 - DORSEY RUN ROAD

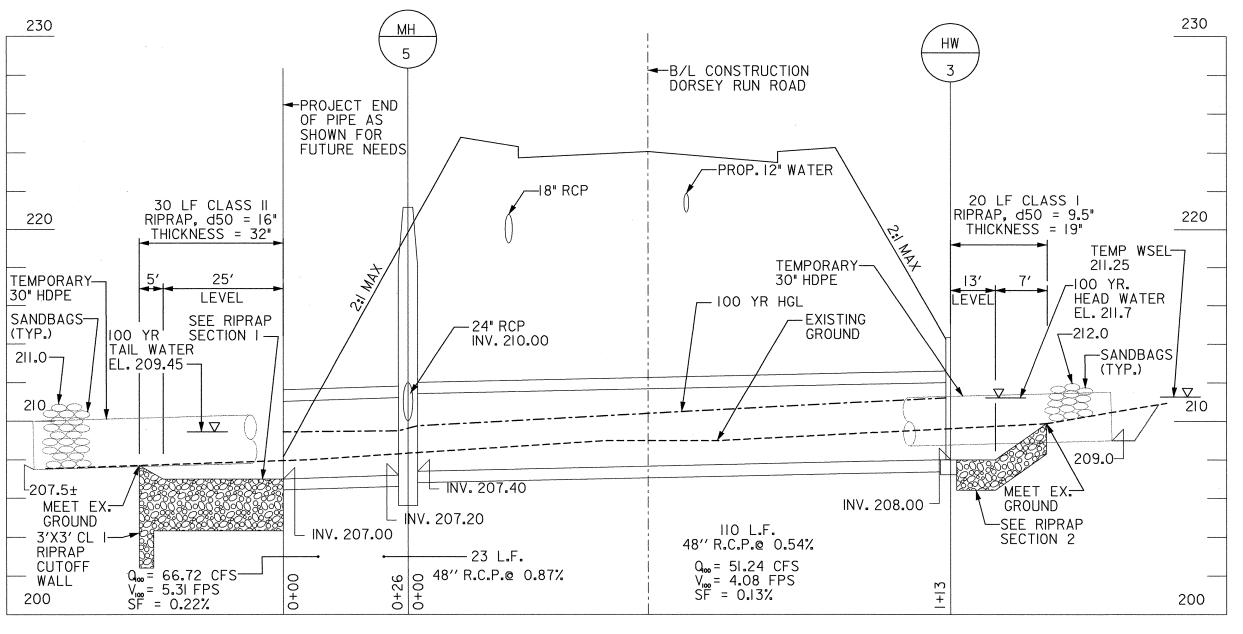
**GENERAL NOTES:** 1. FOR OUTFALL DETAILS, REFER TO SHEET 40 - "STORMWATER MANAGEMENT MISCELLANEOUS DETAILS - II"



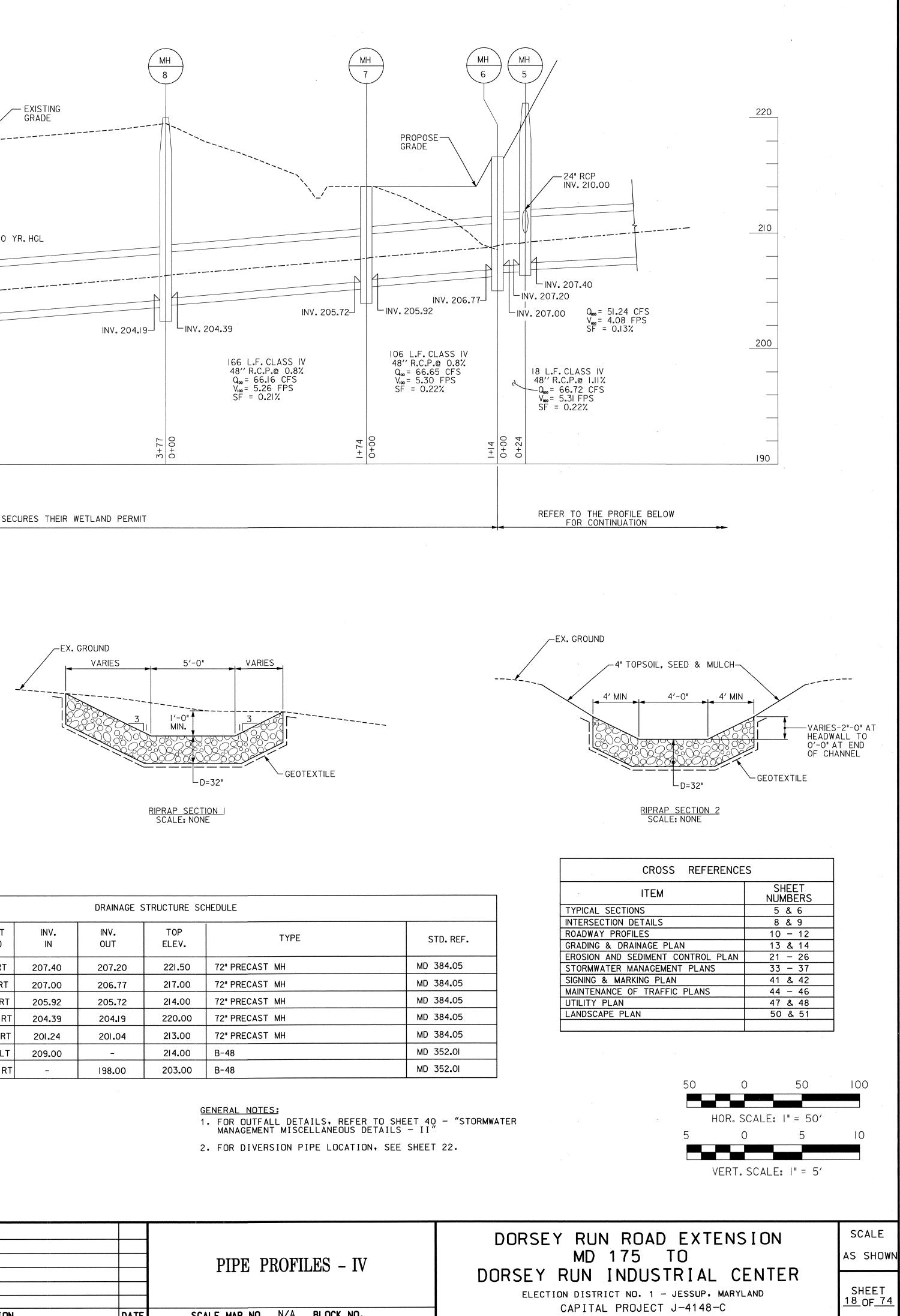
TELE:(410)730-1001 FAX:(410)730-540	DATE: 10/06	BY	NO.	REVISION	DATE	SCALE MAP NO. N/A
	DATE - 40 /00					
CONSULTING ENGINEERS COLUMBIA, MARYLAND	CHK: DTM					
RJM ENGINEERING, INC.						
IŢJIII	DRN: SYC/CDF					PIPE PROFIL
	DES: CMC					









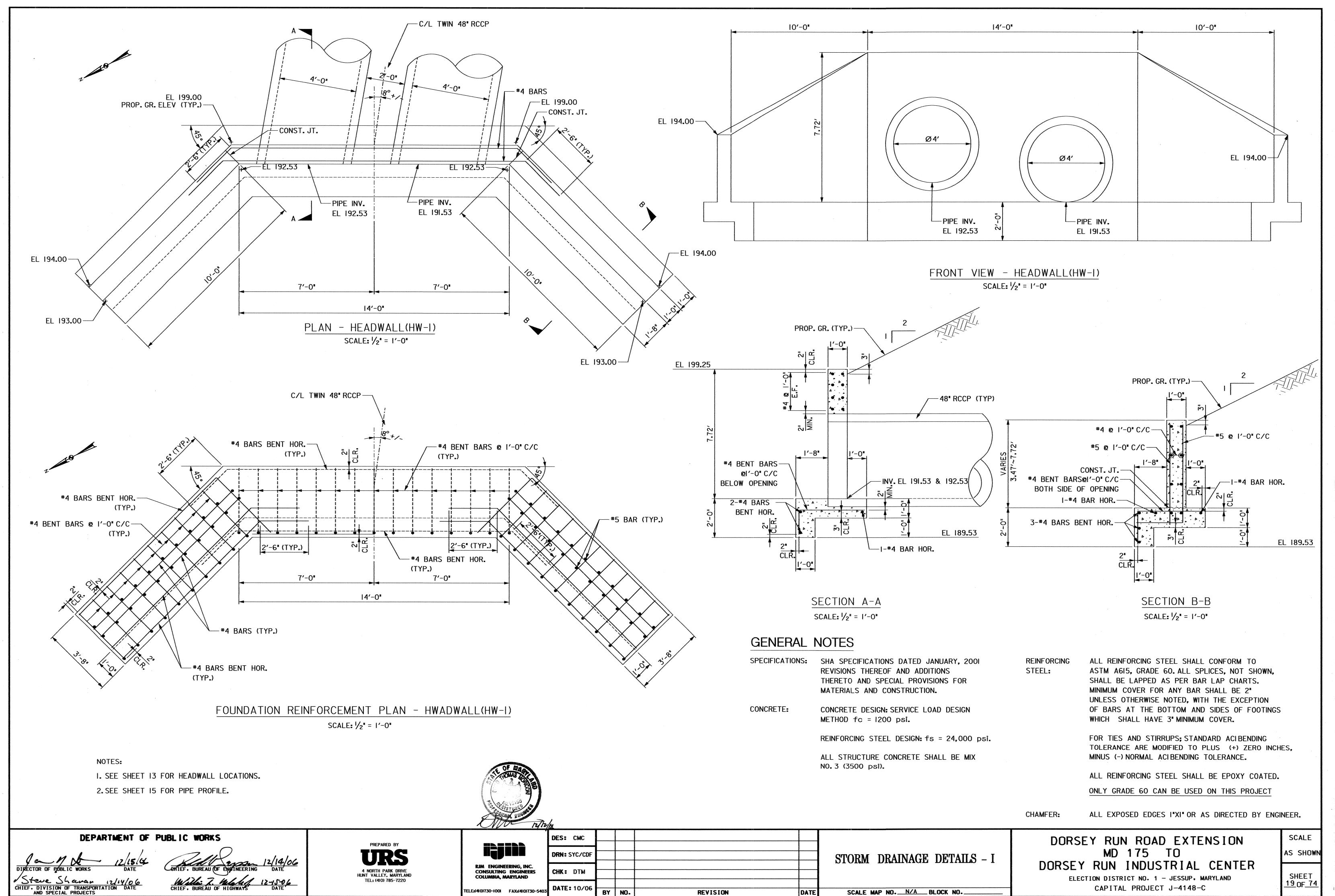


DRAINAGE STRUCTURE SCHEDULE													
STRUCTURE NO.	STATION	OFFSET (FEET)	INV. IN	INV. OUT	TOP ELEV.	TYPE							
MH-5	421+09.00	43.5 RT	207.40	207.20	221.50	72" PRECAST MH							
MH-6	421+00.35	67.14 RT	207.00	206.77	217.00	72" PRECAST MH							
MH-7	422+02.69	113.42 RT	205.92	205.72	214.00	72" PRECAST MH							
MH-8	422+65.28	277.74 RT	204.39	204.19	220.00	72" PRECAST MH							
MH-9	421+00.35	647.I3 RT	201.24	201.04	213.00	72" PRECAST MH							
HW-3	421+55.00	54.00 LT	209.00	_	214.00	B-48							
HW-6	418+91.03	646.33 RT		198.00	203.00	B-48							

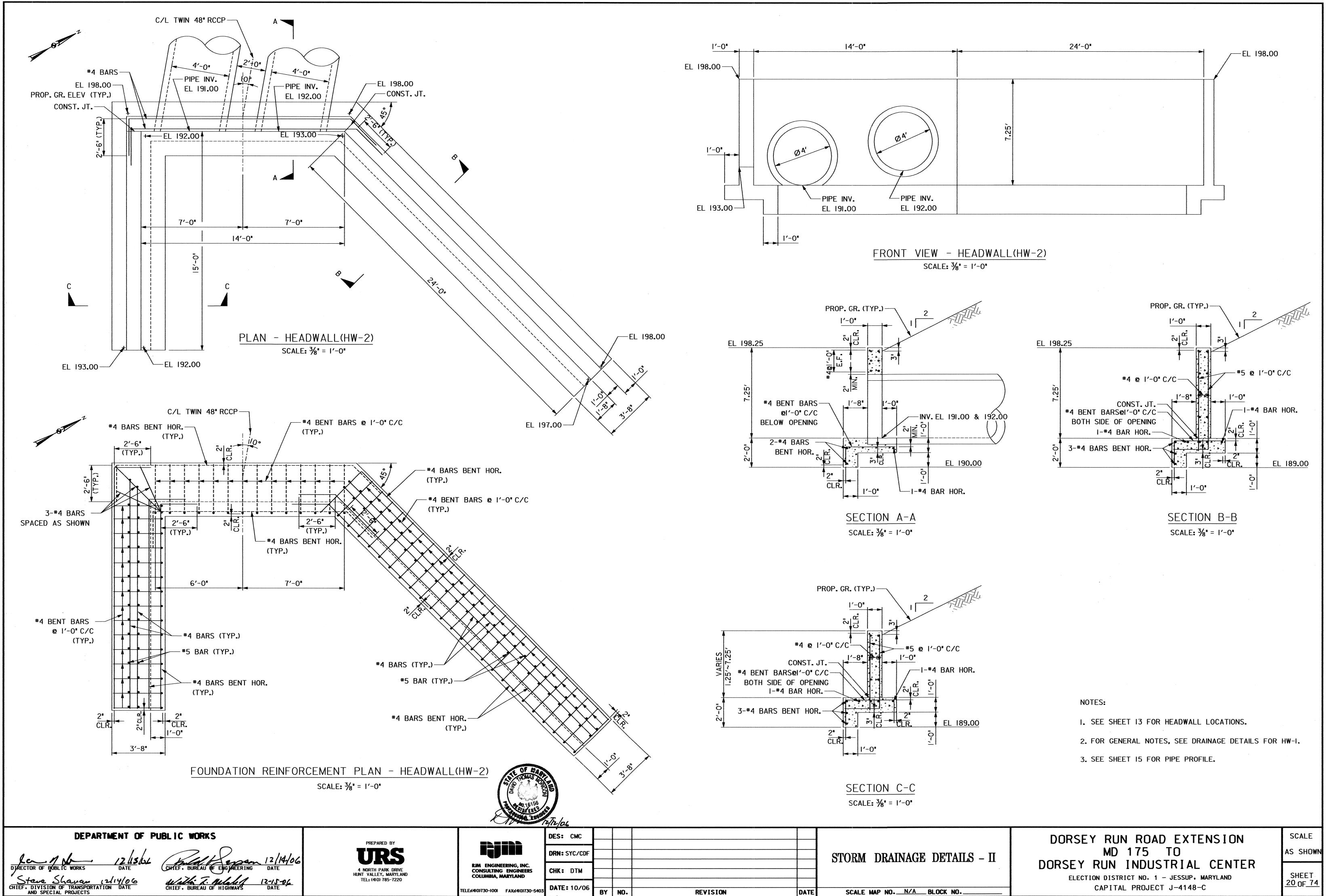
TE OF MAG	DES: CMC					
	DRN: SYC/CDF					PIPE PROFII
A 49.16145	CHK: DTM					
<b>1 b 1 1 1 1 1 1 1 1 1 1</b>	DATE: 10/06	BY	NO.	REVISION	DATE	SCALE MAP NO. N/A

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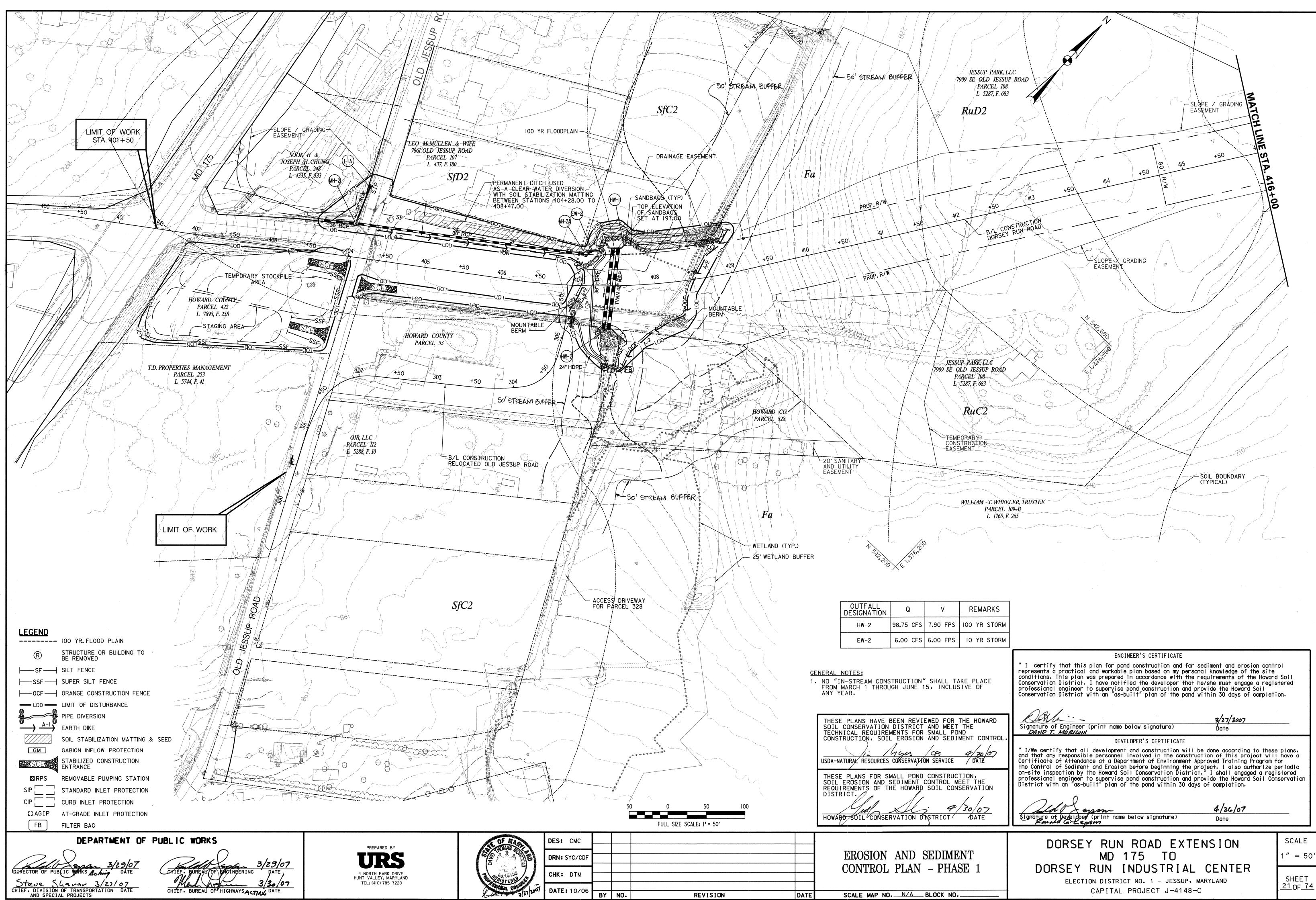


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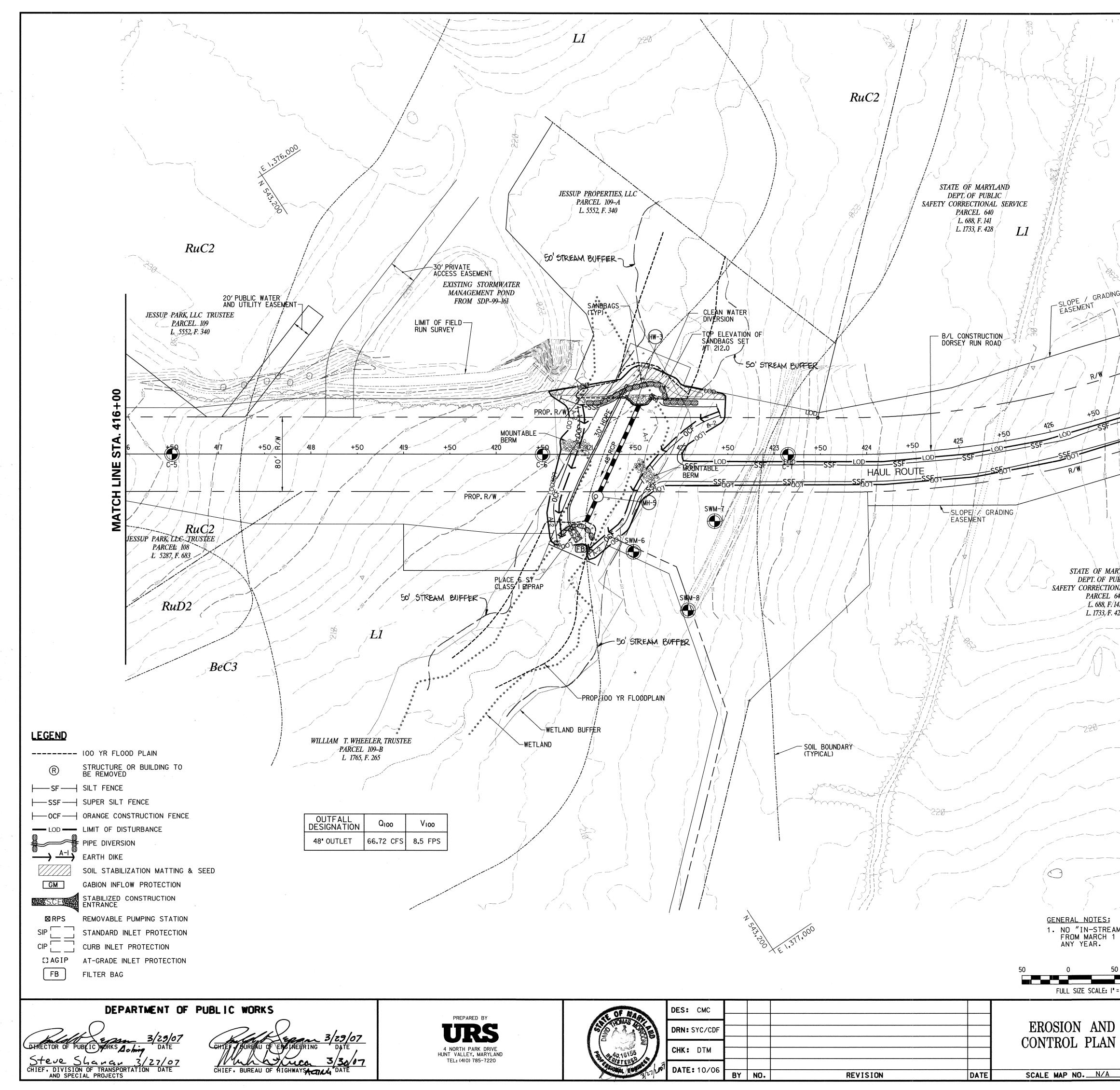


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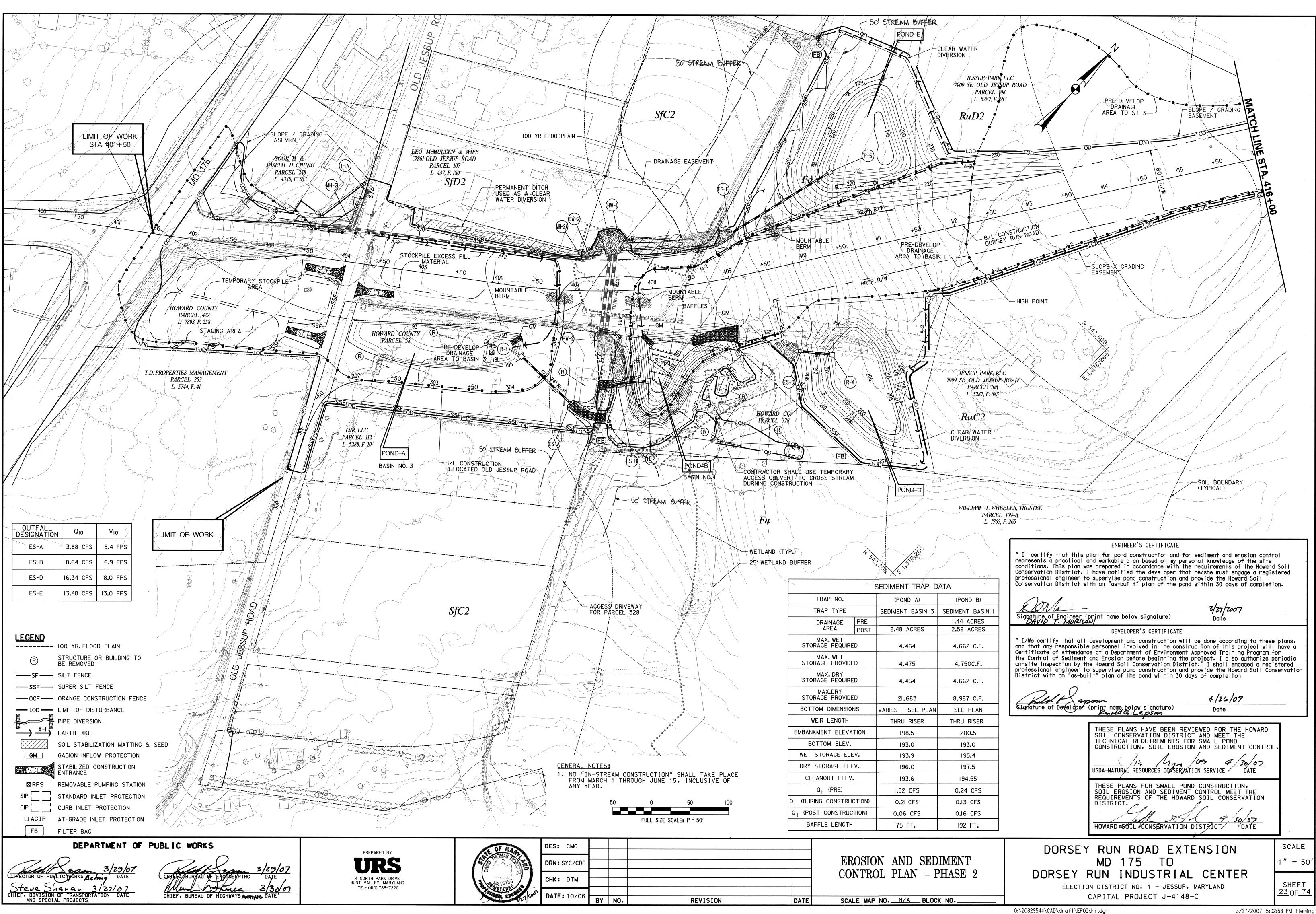
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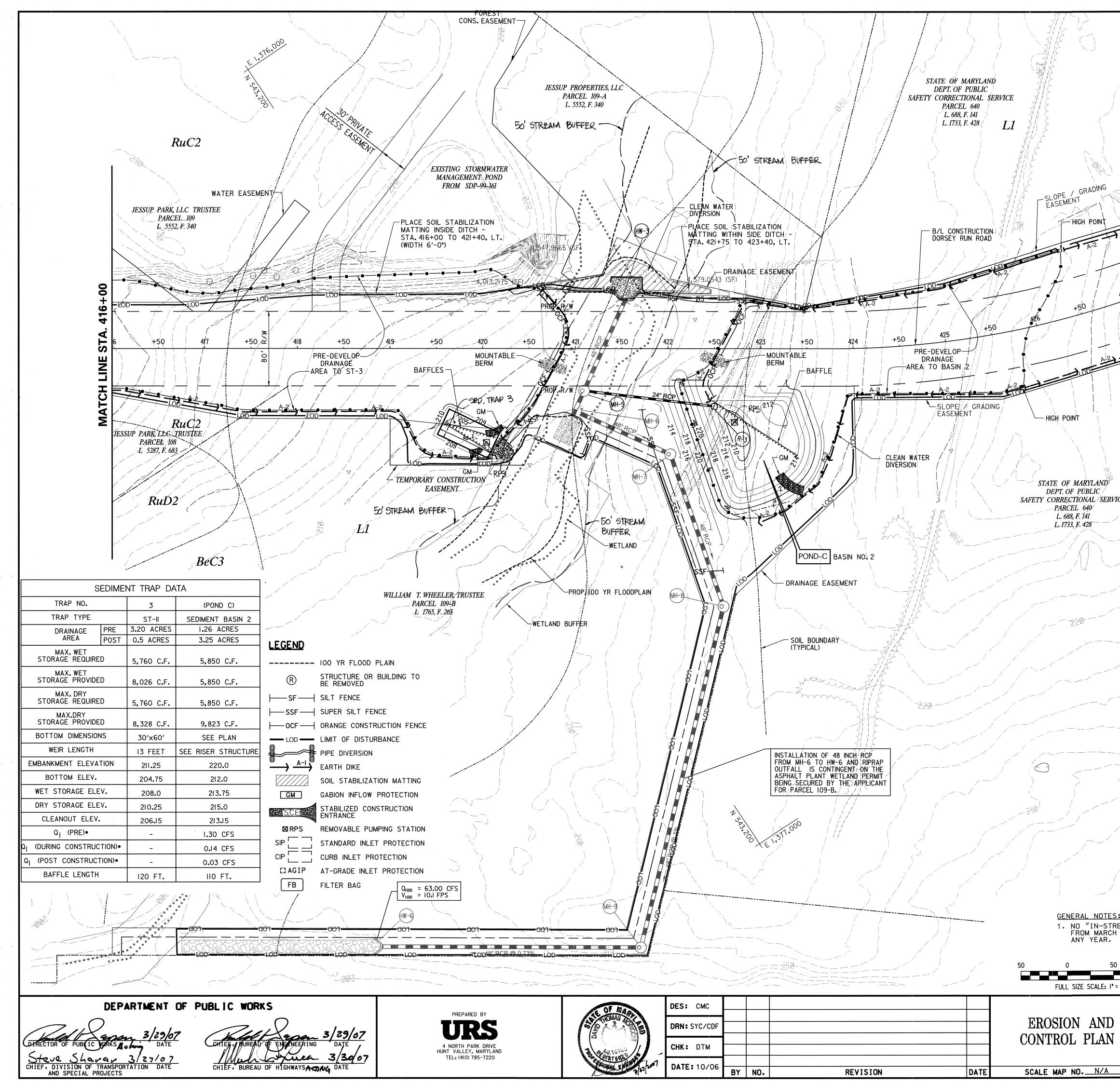


STLAND BLIC SECON	LIMIT: OF WORK STA: S34+00.00 RALTIMORE AIRCOIL CO.INC PARCEL S77 LASS F. 400 T. UTIMOR
	ENGINEER'S CERTIFICATE "I certify that this plan for pond construction and for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. $\frac{3/27/2007}{2007}$
	Signature of Engineer (print name below signature)       Date         DEVELOPER'S CERTIFICATE         "I/We certify that all development and construction will be done according to these plans, and that any responsible personnel involved in the construction of this project will have a Certificate of Attendance at a Department of Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District." I shall engaged a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.         Adjz6/07
A CONSTRUCTION" SHALL T THROUGH JUNE 15, INCLU	Signature of Developer (print name below signature)       Date         THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD         SOIL CONSERVATION DISTRICT AND MEET THE         TECHNICAL REQUIREMENTS FOR SMALL POND         CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.
100 50'	REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. HOWARD SOIL CONSERVATION DISTRICT DATE
SEDIMENT - PHASE 1 _block no	DORSEY RUN ROAD EXTENSION MD 175 TO DORSEY RUN INDUSTRIAL CENTER ELECTION DISTRICT NO. 1 - JESSUP, MARYLAND CAPITAL PROJECT J-4148-C

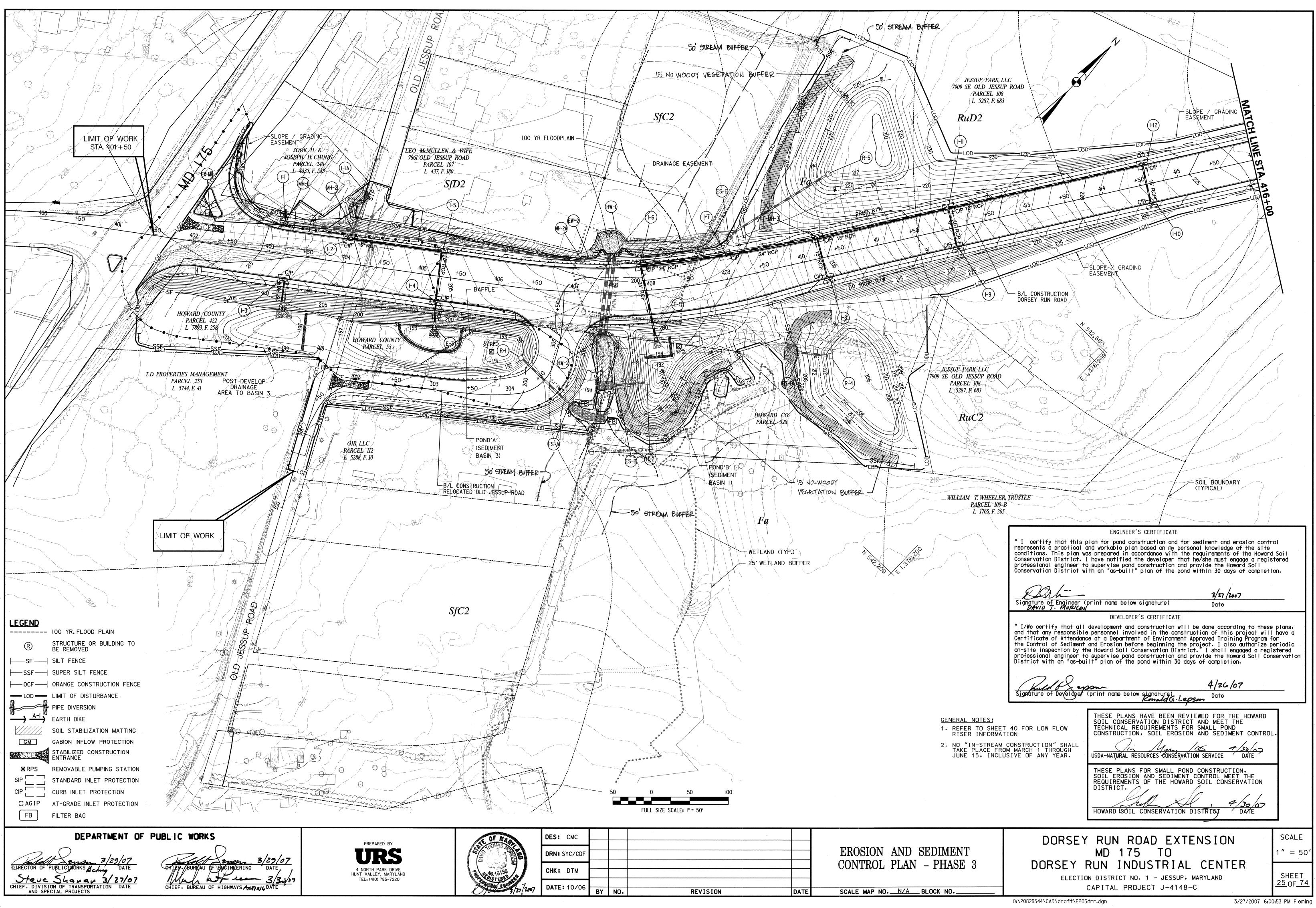


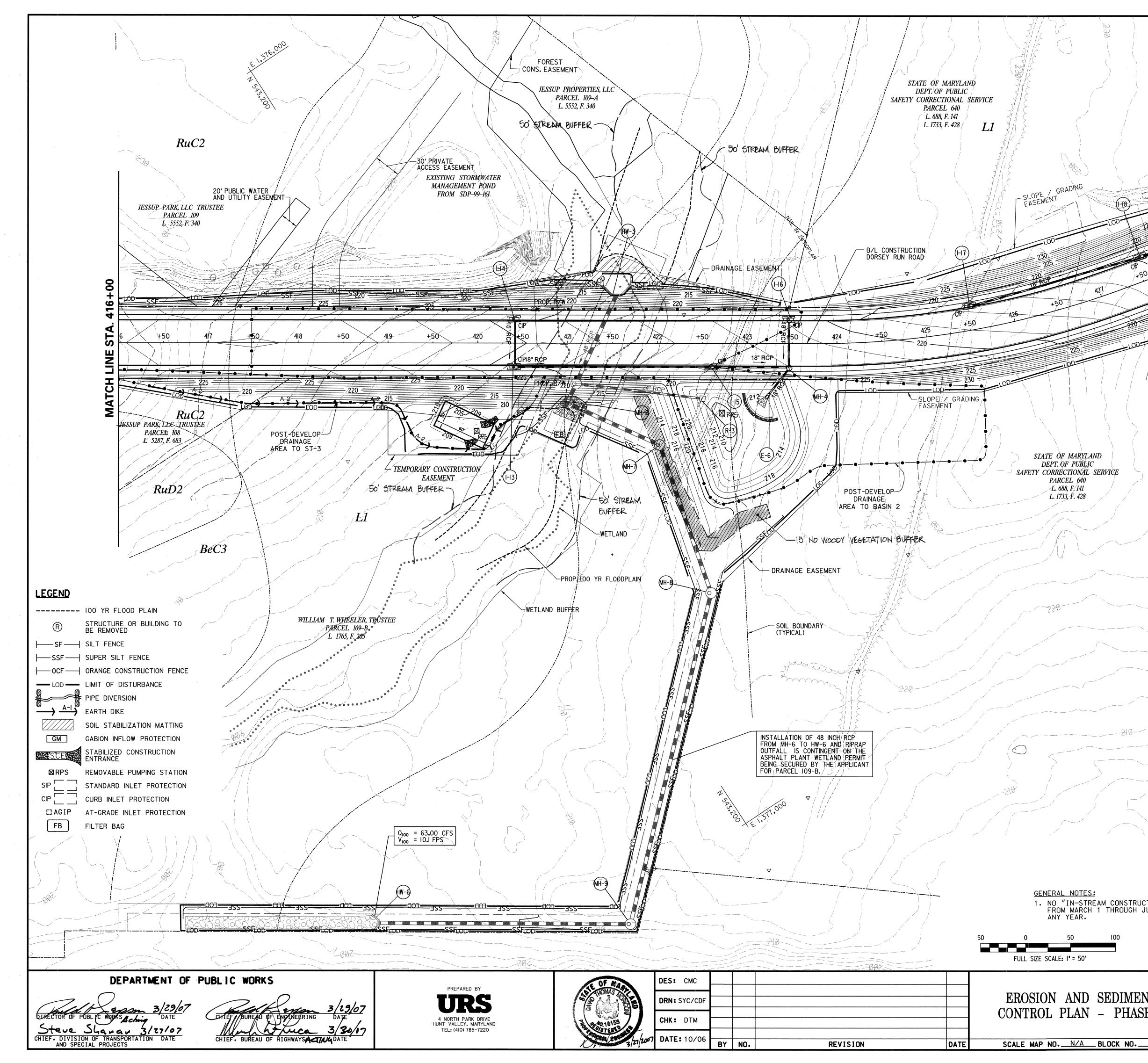


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	ENGINEER'S CERTIFICATE " I certify that this plan for pond construction and for sediment and erosion contra represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Conservation District. I have notified the developer that he/she must engage a regis	Soil
	professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completing	on.
	Kanne     3/27/2007       Signature of Engineer (print name below signature)     Date       DAVID T: MORICANI     Date	
210	" I/We certify that all development and construction will be done according to these and that any responsible personnel involved in the construction of this project will Certificate of Attendance at a Department of Environment Approved Training Program f	have a
	the Control of Sediment and Erosion before beginning the project. I also authorize p on-site inspection by the Howard Soil Conservation District." I shall engaged a regi professional engineer to supervise pond construction and provide the Howard Soil Con District with an "as-built" plan of the pond within 30 days of completion.	stered servation
	Signature of Developer (print name below signature) Date	
	THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL	
and the	USDA-NATURAL RESOURCES DONSERVATION SERVICE DATE	
EAM CONSTRUCTION" SHALL 1 THROUGH JUNE 15, INC	TAKE PLACE CLUSIVE OF THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT,	
100 50'	HOWARD SOIL CONSERVATION DISTRICT DATE	
SEDIMENT	DORSEY RUN ROAD EXTENSION MD 175 TO	SCALE 1″ = 50′
– PHASE 2	DORSEY RUN INDUSTRIAL CENTER ELECTION DISTRICT NO. 1 - JESSUP, MARYLAND	SHEET 24 OF 74
BLOCK NO.	CAPITAL PROJECT J-4148-C	• •





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SERVICE		
	conditions. This plan wa	ENGINEER'S CERTIFICATE olan for pond construction and for sediment and erosion control and workable plan based on my personal knowledge of the site as prepared in accordance with the requirements of the Howard Soil
	Conservation District. I professional engineer to Conservation District wi	I have notified the developer that he/she must engage a registered o supervise pond construction and provide the Howard Soil ith an "as-built" plan of the pond within 30 days of completion.
- 210-	" I/We certify that all	DEVELOPER'S CERTIFICATE development and construction will be done according to these plans,
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	Signature of Developer	(print name below signature) Lonald G. Lepson Date
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100		DISTRICT. HOWARD SOIL CONSERVATION DISTRICT DATE
SEDIMENT		' RUN ROAD EXTENSIONSCALEMD 175TO1" = 50
- PHASE 3		RUN INDUSTRIAL CENTER DN DISTRICT NO. 1 - JESSUP, MARYLAND CAPITAL PROJECT J-4148-C SHEET <u>26 OF 74</u>

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# PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER 3 INCHES OF SOIL BY RAKING, DISCING, OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

- 1) PREFERRED APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS. PER I,000 SQUARE FEET) AND 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 I BS. PER 1,000 SQUARE FEET) BEFORE SEEDING, HARROW OR DISC INTO UPPER 3 INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS. PER 1,000 SQUARE FEET).
- 2) ACCEPTABLE APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS. PER 1,000 SQUARE FEET) AND 1,000 LBS. PER ACRE 10-10-10 FERTILIZER (23 LBS. PER 1,000 SQUARE FEET) BEFORE SEEDING. HARROW OR DISC INTO UPPER 3 INCHES OF SOIL.

SEEDING: FOR THE PERIOD MARCH I THROUGH APRIL 30 AND FROM AUGUST

THROUGH OCTOBER 15, SEED WITH 60 LBS. PER ACRE (1.4 LBS. PER 1,000 SQUARE FEET) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY I THROUGH JULY 31. SEED WITH 60 LBS. KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (0.05 LBS. PER 1.000 SQUARE FEET) OF WEEPING LOVEGRASS. DURING THE PERIOD OCTOBER 16 THROUGH FEBRUARY 28, PROTECT SITE BY ONE OF THE FOLLOWING OPTIONS:

1) 2 TONS PER ACRE OF WELL-ANCHORED MULCH STRAW AND SEED AS SOON AS POSSIBLE IN THE SPRING.

2) USE SOD.

3) SEED WITH 60 LBS. PER ACRE KENTUCKY 3I TALL FESCUE AND MULCH WITH 2 TONS PER ACRE WELL ANCHORED STRAW.

MULCHING: APPLY  $I_{2}^{1/2}$  TO 2 TONS PER ACRE (70 TO 90 LBS. PER 1,000 SQUARE FEET) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GALLONS PER LOOO SOUARE FEET) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES. 8 FEET OR HIGHER. USE 347 GALLONS PER ACRE (8 GALLONS PER 1,000 SQUARE FEET) FOR ANCHORING.

MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS. REPLACEMENTS, AND RESEEDINGS.

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTRIBUTED WHERE SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER 3 INCHES OF SOIL BY RAKING, DISCING, OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

SOIL AMENDMENTS: APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS. PER 1,000 SQUARE FEET).

SEEDING: FOR PERIODS MARCH I THROUGH APRIL 30 AND FROM AUGUST 15 THROUGH NOVEMBER 15, SEED WITH  $2\frac{1}{2}$  BUSHELS PER ACRE OF ANNUAL RYE (3.2 LBS, PER 1.000 SQUARE FEET), FOR THE PERIOD MAY I THROUGH AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (0.07 LBS. PER 1,000 12. SITE GRADING WILL BEGIN ONLY AFTER ALL PERIMETER SEDIMENT CONTROL SQUARE FEET). FOR THE PERIOD NOVEMBER 16 THROUGH FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING OR USE SOD.

MULCHING: APPLY 11/2 TO 2 TONS PER ACRE (70 TO 90 LBS. PER 1.000 SQUARE FEET) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GALLONS PER LOOO SQUARE FEET) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES, 8 FEET OR HIGHER, USE 347 GALLONS PER ACRE (8 GALLONS PER 1,000 SQUARE FEET) FOR ANCHORING. REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED

# STANDARD SEDIMENT CONTROL NOTES

- I. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (410-313-1855).
- 2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERETO.

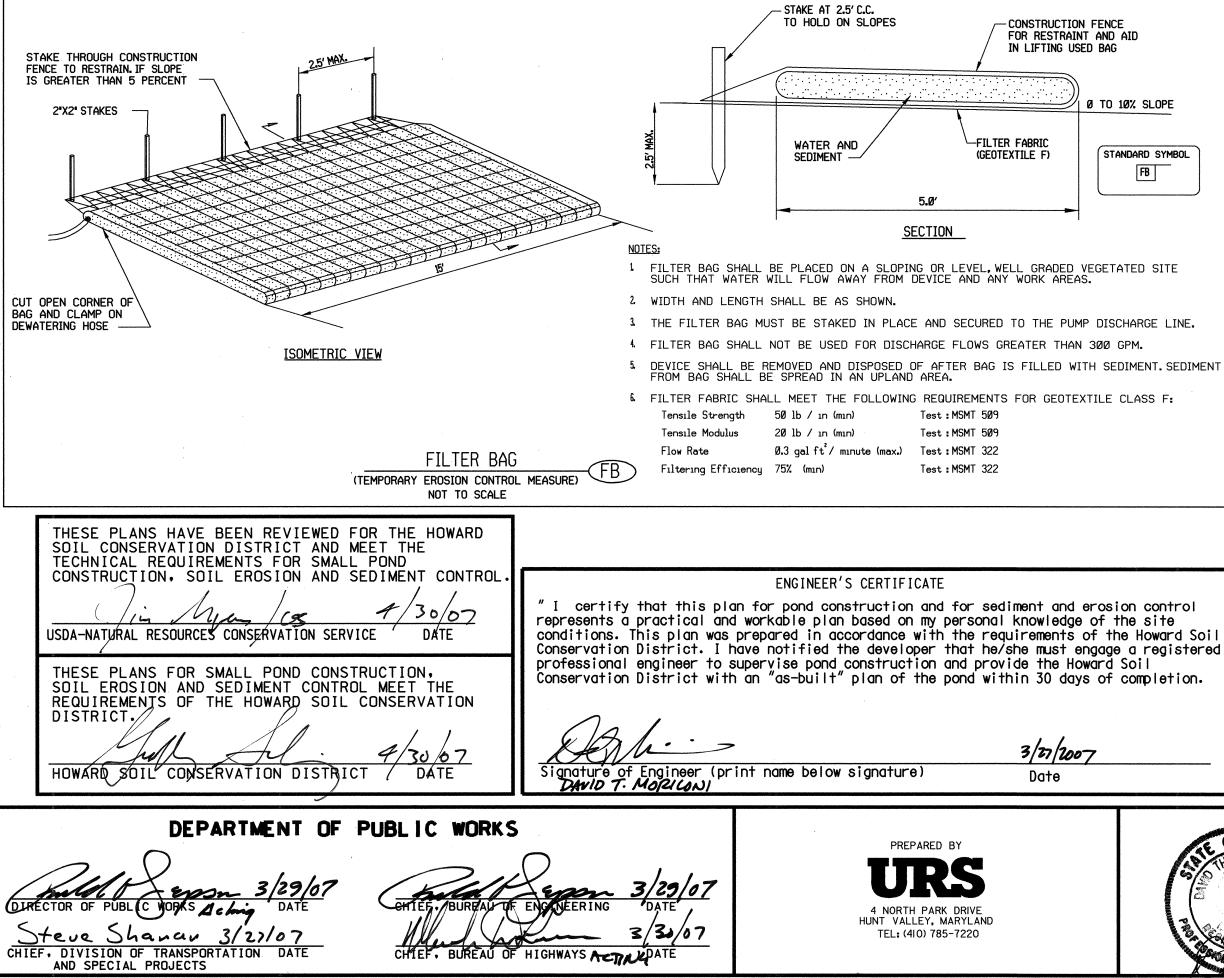
3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:

- A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3:1. B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- 4. ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THE PERIMETER IN ACCORDANCE WITH VOLUME I. CHAPTER 7, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE
- 5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING, SOD, TEMPORARY SEEDING, AND MULCHING (SECTION G). TEMPORARY
- STABILIZATION WITH MULCH ALONE SHALL ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- 6. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THERE REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 7. SITE ANALYSIS:

AREA DISTURBED - 13.6 ACRES AREAS TO BE ROOFED OR PAVED - 3.82 ACRES AREA TO BE VEGETATIVELY STABILIZED - 5.53 ACRES

TOTAL CUT - 61.640 CY TOTAL FILL - 56.480 CY

- OFF-SITE WASTE SITE HOWARD COUNTY LANDFILL OFF-SITE BORROW SITE - APPROVED SITE WITH AN ACTIVE GRADING PERMIT
- 8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- 9. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED. IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- IO. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAI OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING, OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- II. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY. WHICHEVER IS SHORTER.
- MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION.
- 13. SEDIMENT WILL BE REMOVED FROM TRAPS WHEN ITS DEPTH REACHES CLEAN OUT ELEVATION SHOWN ON THE PLANS.
- 14. CUT AND FILL QUANTITIES PROVIDED UNDER SITE ANALYSIS DO NOT REPRESENT BID QUANTITIES. THESE QUANTITIES DO NOT DISTINGUISH BETWEEN TOPSOIL. STRUCTURAL FILL OR EMBANKMENT MATERIAL. NOR DO THEY REFLECT CONSIDERATION OF UNDERCUTTING OR REMOVAL OF UNSUITABLE MATERIAL. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH SITE CONDITIONS WHICH MAY AFFECT THE WORK.
- 15. CONSTRUCTION WITHIN. ALONG OR ACROSS STREAM CHANNELS SHALL. AS A MINIMUM. CONFIRM TO CRITERIA DESCRIBED UNDER "MARYLAND'S GUIDELINES TO WATERWAY CONSTRUCTION".



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SEQUENCE OF CONSTRUCTION CONTINUED

NOTE THAT SOME SEQUENCE STEPS MAY BE PERFORMED CONCURRENTLY WITH THE APPROVAL OF THE COUNTY INSPECTOR. PHASE I

- I. OBTAIN THE NECESSARY GRADING PERMITS PRIOR TO CONSTRUCTION (I DAY).
- 2. NOTIFY HOWARD COUNTY AT 410-313-1855 AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION (I DAY).
- 3. WITH THE APPROVAL OF THE INSPECTOR INSTALL STABILIZED CONSTRUCTION ENTRANCES WITH MOUNTABLE BERMS AND PIPES (IF NECESSARY). (2 DAYS)
- 4. CLEAR AND GRUB FOR THE INSTALLATION OF THE EROSION AND SEDIMENT CONTROL MEASURES NOTED BELOW. (5 DAYS)
- 5. INSTALL PIPE DIVERSION PRACTICES TO FACILITATE THE INSTALLATION OF THE TWIN 48-INCH RCP AT STATION 407+40, AND SINGLE 48-INCH RCP AT STATION 421+25. (3 DAYS)
- 6. INSTALL THE FOLLOWING PERIMETER EROSION AND SEDIMENT CONTROL MEASURES (10
- DAYS): A. SUPER SILT FENCE AT THE STOCKPILE/STAGING AREA,
- B. SUPER SILT FENCE IN THE VICINITY OF HEADWALL (HW-2) . EARTH DIKE BETWEEN STATIONS 404+30 (LT.) AND 407+00 (RT.)
- . EARTH DIKE BETWEEN STATIONS 407+50 (RT.) AND 409+00 (LT.) . EARTH DIKE BETWEEN STATIONS 420+75 (RT.) AND 421+00 (LT.)
- EARTH DIKE BETWEEN STATION 421+25 (RT.) AND 422+45 (LT.) G. MOUNTABLE BERMS
- H. ORANGE CONSTRUCTION FENCE ALONG INTERIOR EARTH DIKES AS SHOWN PERMANENT DITCH TO SERVE AS A CLEAR WATER DIVERSION BETWEEN STATIONS 404+05 AND 408+75 (LT) STABILIZED WITH SOIL STABILIZATION MATTING, INSTALL SILT FENCE AS SHOWN
- J. CURB INLET PROTECTION DEVICES AT STATIONS 533+90 LT AND RT
- 7. ESTABLISH STAGING AREA(S) FOR CONSTRUCTION TRAILERS AND COORDINATE UTILITY SERVICES. (5 DAYS)
- 8. COORDINATE THE DISCONNECTION OF ALL EXISTING UTILITIES (IF NOT DONE SO ALREADY) TO EXISTING DWELLINGS WITHIN THE LIMIT OF DISTURBANCE.
- 9. WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR. INSTALL STORM DRAIN FROM EW-2 TO CONCRETE COLLAR AT STATION 403+65, LT. INSTALL I-IA AND PIPE TO MH-2. INSTALL INLET PROTECTION AT I-IA. THIS SYSTEM WILL SERVE AS A CLEAR WATER DIVERSION. (IO DAYS)
- IO. WITH THE APPROVAL OF THE INSPECTOR, CONSTRUCT HEADWALLS HW-I THROUGH HW-3, TWIN 48-INCH AND SINGLE 48-INCH RCP. CONSTRUCT RIPRAP OUTLET CHANNELS AT HW-2 AND EXIT OF SINGLE 48-INCH PIPE. CONCURRENT WITH THE INSTALLATION OF THE TWIN 48-INCH RCP'S, INSTALL THE 12-INCH WATER LINE UNDER THE TWIN 48-INCH RCP'S. (30 DAYS). IN STREAM WORK MAY NOT BE CONDUCTED FROM MARCH I THRU JUNE 15, INCLUSIVE OF ANY YEAR PHASE 2:
- 11. WITH THE APPROVAL OF THE INSPECTOR AND ONCE THE TWIN 48-INCH AND SINGLE 48-INCH CROSS CULVERTS ARE IN PLACE AND THE INFLOW AND OUTFALL CHANNELS ARE CONSTRUCTED AND STABILIZED, DIRECT CLEAR WATER TO HW-I AND HW-3. REMOVE THE TEMPORARY PIPE DIVERSIONS. RAZE ALL EXISTING BUILDINGS AND APPURTENANCES WITHIN THE LIMIT OF DISTURBANCE AND DISPOSE OF ALL MATERIALS TO APPROVED DISPOSAL SITE. IMMEDIATELY STABILIZE THE AREAS WITH TEMPORARY SEED AND MULCH. (6 DAYS)
- 12. CLEAR THE AREAS FOR CONSTRUCTION OF PONDS AND TRAPS.
- 13. CONSTRUCT TEMPORARY SEDIMENT TRAP 3. PLACE GABION INFLOW PROTECTION MEASURES AS SHOWN ON PLAN. (10 DAYS)
- 14. WITH THE APPROVAL OF THE INSPECTOR. CONSTRUCT POND 'B' AND 'C' USING THE FOLLOWING SEQUENCE (30 DAYS): CONSTRUCT PRINCIPAL SPILLWAY (CUTOFF TRENCH, CONCRETE CRADLE, PIPE, ANTI-SEEP COLLAR AND RISER) CONSTRUCT EMBANKMENT (CUTOFF TRENCH. CORE TRENCH) CONSTRUCT LOW FLOW DEWATERING DEVICE TO RISER STRUCTURE PLACE RIPRAP INFLOW PROTECTION MEASURES AS SHOWN ON PLAN.
- 15. CONSTRUCT EARTH DIKE BETWEEN THE FOLLOWING STATIONS (IO DAYS): A. 404+50 LT. AND 406+75 RT . (TO SEDIMENT BASIN NO. 3)
- B. 407+80 RT. AND 412+50 LT. (TO SEDIMENT BASIN NO. I)
- . 409+00 RT AND 412+26 RT (TO SEDIMENT BASIN NO. I) . 410+80 LT AND 412+10 LT (CLEAR WATER DIVERSION)
- 410+90 RT AND 411+50 RT (CLEAR WATER DIVERSION) 412+25 RT AND 420+10 RT (TO ST-3)
- G. 420+20 RT AND 420 +90 LT (TO ST-3) 1. 422+40 RT AND 426+50 LT (TO SEDIMENT BASIN NO. 2)
- 422+90 RT AND 425+75 RT (CLEAR WATER DIVERSION)
- J. 426+50 LT AND 533+50 RT K. 425+75 RT AND 533+65 RT

Ø TO 10% SLOPE

STANDARD SYMBO

FB

- 16. CONSTRUCT POND 'D' AND 'E' USING THE FOLLOWING SEQUENCE (30 DAYS): A. CONSTRUCT PRINCIPAL SPILLWAY (CUTOFF TRENCH, CONCRETE CRADLE, PIPE, ANTI-SEEP COLLAR AND RISER) B. CONSTRUCT EMBANKMENT (CUTOFF TRENCH. CORE TRENCH)
- C. CONSTRUCT LOW FLOW DEWATERING DEVICE TO RISER STRUCTURE
- NOTE: POND D AND E WILL NOT SERVE AS EROSION AND SEDIMENT CONTROL DEVICES. PONDS SHALL BE DEWATERED THROUGH A FILTER BAG.LOW FLOW SHALL BE PLUGGED.

DEEP RUN AND TRIBUTARIES ARE USE IP WATERWAYS. INSTREAM WORK MAY NOT BE CONDUCTED FROM MARCH THROUGH JUNE 15, INCLUSIVE OF ANY YEAR.

A COPY OF THE MDE PERMIT WILL BE INCORPORATED INTO THE SPECIFICATIONS. THE CONTRACTOR MUST ADHERE TO ALL CONDITIONS CONTAINED THEREIN.

AND STATIONS 30I+75 AND 305+40 ALONG RELOCATED OLD JESSUP ROAD. CONVERT 'A'). CONSTRUCT THE REMAINDER OF PONDS 'B' AND 'C' AS THE GRADING PROGRESSES (30 DAYS).

- 19. INSTALL REMAINING INLETS. MANHOLES AND PIPES AS FOLLOWS: A. I-3 TO E-I AND RIPRAP OUTFALL
- B. I-2 TO E-3 AND RIPRAP OUTFALL
- C. I-IO TO E-5 AND RIPRAP OUTFALL D. I-9 TO I-II, I-8 TO MH-3
- E. I-I4 TO E-6 AND RIPRAP OUTFALL
- F. I-16 TO MH-4 G. I-17 TO EX-1

20. INSTALL WATER LINE EXTENSION AND SANITARY SEWER. PHASE 3:

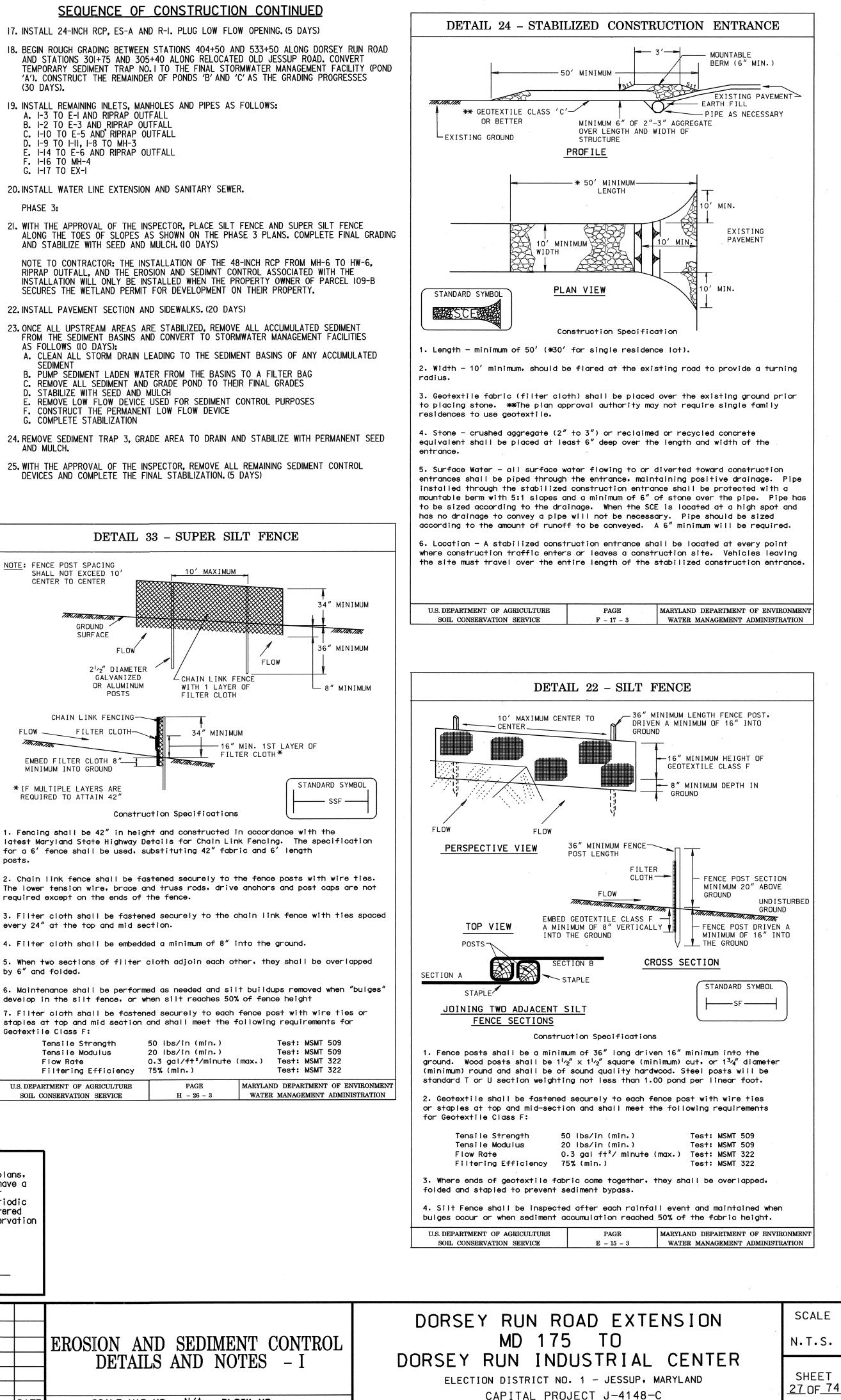
- 21. WITH THE APPROVAL OF THE INSPECTOR, PLACE SILT FENCE AND SUPER SILT FENCE AND STABILIZE WITH SEED AND MULCH. (IO DAYS)
- NOTE TO CONTRACTOR: THE INSTALLATION OF THE 48-INCH RCP FROM MH-6 TO HW-6, RIPRAP OUTFALL. AND THE EROSION AND SEDIMNT CONTROL ASSOCIATED WITH THE INSTALLATION WILL ONLY BE INSTALLED WHEN THE PROPERTY OWNER OF PARCEL 109-B SECURES THE WETLAND PERMIT FOR DEVELOPMENT ON THEIR PROPERTY.
- 22. INSTALL PAVEMENT SECTION AND SIDEWALKS. (20 DAYS)
- 23. ONCE ALL UPSTREAM AREAS ARE STABILIZED, REMOVE ALL ACCUMULATED SEDIMENT FROM THE SEDIMENT BASINS AND CONVERT TO STORMWATER MANAGEMENT FACILITIES AS FOLLOWS (IO DAYS):
- SEDIMENT
- REMOVE ALL SEDIMENT AND GRADE POND TO THEIR FINAL GRADES
- STABILIZE WITH SEED AND MULCH REMOVE LOW FLOW DEVICE USED FOR SEDIMENT CONTROL PURPOSES
- CONSTRUCT THE PERMANENT LOW FLOW DEVICE G. COMPLETE STABILIZATION
- AND MULCH.

DETAIL 33 – SUPE
NOTE: FENCE POST SPACING SHALL NOT EXCEED 10' CENTER TO CENTER
GROUND SURFACE
FLOW
2 <sup>1</sup> /2" DIAMETER GALVANIZED CHAIN OR ALUMINUM WITH 1 POSTS FILTER
CHAIN LINK FENCING
FLOW FILTER CLOTH
EMBED FILTER CLOTH 8"
* IF MULTIPLE LAYERS ARE REQUIRED TO ATTAIN 42"
Construction Specific
1. Fencing shall be 42" in height and constru- latest Maryland State Highway Details for Cho for a 6' fence shall be used, substituting 42 posts.
2. Chain link fence shall be fastened secure The lower tension wire, brace and truss rods, required except on the ends of the fence.
3. Filter cloth shall be fastened securely to every 24" at the top and mid section.
4. Filter cloth shall be embedded a minimum c
5. When two sections of filter cloth adjoin e by 6" and folded.
6. Maintenance shall be performed as needed a develop in the silt fence, or when silt reach

7. Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for

Geotextile Class F:	
Tensile Strength Tensile Modulus Flow Rate Filtering Efficiency	50 lbs/in (min. 20 lbs/in (min. 0.3 gal/ft²/min 75% (min.)
U.S. DEPARTMENT OF AGRICULTURE	PAGE
SOIL CONSERVATION SERVICE	H – 26 – 3

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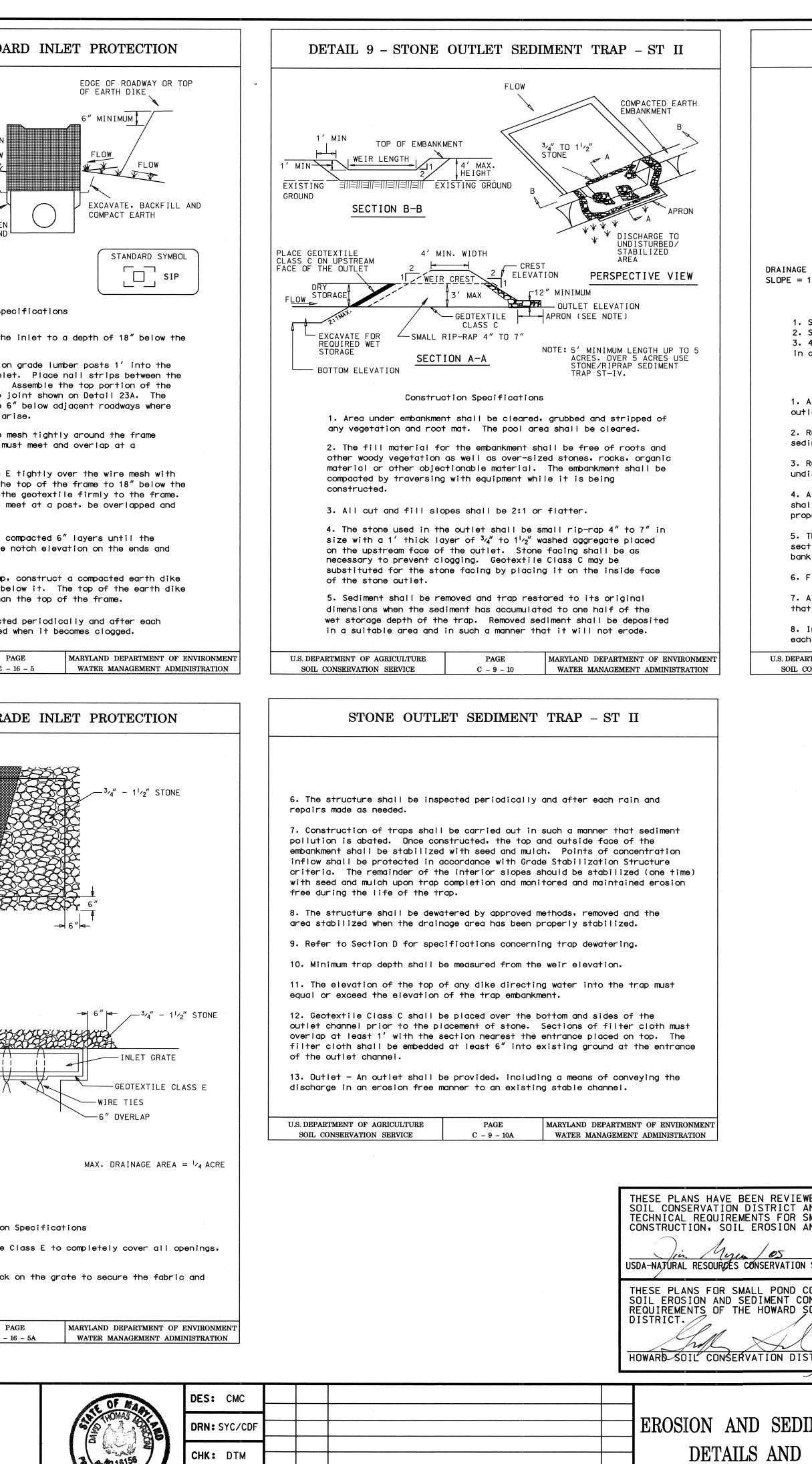


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CUT OR FILL SLOPE V V V V PLAN VIEW STANDARD SYMOU A-2 B-3 / Seed and cover with stray mulch. 2. Seed and cover with Erasian Control Matting or line with sod. 3. 4" - 7" store or recycled concrete equivalent pressed into the soil 7" minimum Construction Specifications 1. All temporary earth dikes shall have uninterrupted positive grade to an outlet. Spot elevations may be necessary for grades less than 1%. 2. Runoff diverted from a disturbed area shall cutlet directly into an undisturbed. stabilized area shall cutlet directly into an undisturbed. Stabilized area shall cutlet directly into an undisturbed. Stabilized area shall cutlet directly into an undisturbed. and disposed of so as not to interfere with the proper functioning of the dike. 5. The dike shall be excavated or shaped to line. grade and cross section as required to meat the oriteria specified herein and be free of bank projections or other inregularities which will impede normal flow. 5. Fill shall be compacted by earth moving equipment. 7. All earth removed and not needed for construction shall be placed so that it will not interfere with the functioning of the dike. 8. Inspection and maintenance must be provided periodically and after each rolin service: A -1 - 6 MARTAND DEPARTMENT OF ENVIRONMENT SUL CONSERVATION SERVICE: A -1 - 6 MINIMUM LENGTH WATER MANAGEMENT ADMINISTRATION 2" X 4" WEIR SUL CONSERVATION SERVICE: 2" X 4" WEIR SUL CONSERVATION SERVICE: 3" X 4" WEIR SUL CONSERVATIO	INTO WIRE MESH E CLASS E INAGE AREA = <sup>1</sup> / <sub>4</sub> ACRE Construction Excavate completely around tch elevation. Drive the 2" x 4" constr ound at each corner of the sts on the ends of the intendent out of the frame using the over p of the frame (weir) must ooding and safety issues Stretch the 1/2" x 1/2" d fasten securely. The east. Stretch the Geotextile ( e geotixtile extending fr let notch elevation. Fast e ends of the geotextile Ided, then fastened down. Backfill around the intendent p elevation on the sides. If the intendent is not in corross the ditch line direct ould be at least 6" higher The structure must be intendent in and the geotextile representation of the service MENT OF AGRICULTURE NSERVATION SERVICE
PLAN VIEW       STANDARD SYMBOL         FLOW CHANNEL STABILIZATION (GRADE 0.5% MIX. 10% MAX.       A=2 B=3         1. Seed and cover with strow muloh.       2. Seed and cover with strow muloh.         2. Seed and cover with cover sequence occurred equivalent pressed into the soil 7" minimum       1.         Construction Specifications       Construction Specifications         1. All temporary earth dikes shall have uninterrupted positive grade to an outlet. Specifications may be necessary for grades less than 1%.       2.         2. Runoff diverted from a disturbed area shall be conveyed to a sediment trapping device.       3.         3. Runoff diverted from a undisturbed area shall be conveyed to a sediment trapping device.       3.         3. Runoff diverted from an undisturbed area shall outlet directly into an undisturbed, stabilized area at a non-erosive velocity.       4.         4. All trass. brush, stumps, obstructions, and other objectional material shall be encounted by dearth moving equipment.       5.         5. The dike shall be excavated or shaped to line, grade and cross section as required to meet the of therial specified herein and be free of bank projections or other irregularities which will impede normal flow.       5.         6. Fill shall be compacted by earth moving equipment.       5.         7. All earth removed and not needed for construction shall be placed so that it will not interfere with the functioning of the dike.       5.         8. Inspection of AdeBoururuse       A1-6       MANEL	E CLASS E INAGE AREA = <sup>1</sup> / <sub>4</sub> ACRE Construction Excavate completely around the elevation. Drive the 2" x 4" construction ound at each corner of the sts on the ends of the intervent of the state of the intervent of the frame (weir) must ooding and safety issues Stretch the 1/2" x 1/2" d fasten securely. The elevation is the geotextile of the geotextile of the geotextile of the geotextile of the geotextile of the frame down. Backfill around the intervent on the sides. If the inter is not in corross the ditch line direct on the geotextile represented for the geotextile of the structure must be intervent of the geotextile represented for the geotextile represented for the geotextile represented for the geotextile represented for the geotextile represented for the geotextile represented for the structure must be intervented for the structure must be intervented for the geotextile represented for the geotextile represented for the geotextile represented for the structure must be intervented for the structure must be intervented for the geotextile represented for the geotextile represented for the geotextile represented for the structure must be intervented for the structure must be intervented for the geotextile represented for the geotextile represented for the geotextile represented for the structure must be intervented for the structure must be intervented for the structure must be intervented for the geotextile represented for the geotextile represented for the structure must be intervented for the geotextile represented for the geotextile repres
FLOW CHANNEL STABILIZATION GRADE 0.5% MIN. 10% MAX.       STADARD SYMBUL A=2 B-3 A=-/       GEOTEXTIL A=2 B-3 A=-/         1. Seed and cover with Eros much.       Seed and cover with Eros much.       A         2. Seed and cover with Eros sion Control Matting or line with sod.       1.         3. 4" - 7" stone or resycled concrete equivalent pressed into the soil 7" stone or resycled concrete equivalent pressed into the soil 7" stone or resycled concrete equivalent pressed into the soil 7" stone or resycled concrete equivalent pressed into the soil 7" stone or resycled concrete equivalent pressed into the soil 7" stone or negocieve sossary for grades less than 1%.       1.         2. Runoff diverted from a disturbed area shall be conveyed to a sediment trapping device.       3.       Maximum for a stop incores source velocity.         3. Runoff diverted from an undisturbed area shall be conveyed to a sediment trapping device.       3.       Maximum for a stop incore or velocity.         4. All trees, brush, stumps, obstructions, and other objectional material shall be removed and disposed of so as not to interfere with the proper functioning of the dike.       5.         5. The dike shall be excavated or shaped to line, grade and aross section as required to meet the criteria specified herein and be free of bank projections or other irregularities which will impede normal flow.       6.         6. Fill shall be compacted by earth moving equipment.       7.         7. All earth removed and not needed for construction shall be placed so that it will not interfere with the functioning of the dike.       7. <t< td=""><td>INAGE AREA = 1/4 ACRE Construction Excavate completely around the elevation. Drive the 2" x 4" construction ound at each corner of the sts on the ends of the internet (weir) must ooding and safety issues Stretch the 1/2" x 1/2" d fasten securely. The elevation is the geotextile of the geotextile of the geotextile of the geotextile of the geotextile of the geotextile of the geotextile of the fastened down. Backfill around the intervel with the intervel with the intervel with the geotextile of the geotextile of the structure must be intervel with the structure must be intervel with the geotextile representation of the geotextile representation of the geotextile of the structure must be intervel with the structure must be intervented to the geotextile representation of the geo</td></t<>	INAGE AREA = 1/4 ACRE Construction Excavate completely around the elevation. Drive the 2" x 4" construction ound at each corner of the sts on the ends of the internet (weir) must ooding and safety issues Stretch the 1/2" x 1/2" d fasten securely. The elevation is the geotextile of the geotextile of the geotextile of the geotextile of the geotextile of the geotextile of the geotextile of the fastened down. Backfill around the intervel with the intervel with the intervel with the geotextile of the geotextile of the structure must be intervel with the structure must be intervel with the geotextile representation of the geotextile representation of the geotextile of the structure must be intervel with the structure must be intervented to the geotextile representation of the geo
FLOW CHANNEL STABILIZATION GRADE 0.5% MIN. 10% MAX.      /         1. Seed and cover with Erosion Cantrol Matting or line with sod.       1.         2. Seed and cover with Erosion Cantrol Matting or line with sod.       1.         3. 4" - 7" stone or recycled concrete equivalent pressed into the soll 7" minimum       2.         Construction Specifications       2.         1. All temporary earth dikes shall have uninterrupted positive grade to an outlet. Spot elevations may be necessary for grades less than 1%.       2.         2. Runoff diverted from a disturbed area shall be conveyed to a sediment trapping device.       3.         3. Runoff diverted from a undisturbed area shall be conveyed to a sediment trapping device.       3.         4. All trees, brush, stumps, obstructions, and other objectional material shall be removed and disposed of so as not to interfere with the proper functioning of the dike.       4.         5. The dike shall be excevated or shaped to line, grade and cross section as required to meet the orieries appendiate line.       5.         6. Fill shall be composed by earth moving equipment.       7.         7. All earth removed and not needed for construction shall be placed so that it will not interfere with the functioning of the dike.       7.         8. Inspection and maintenance must be provided periodically and after each roln event.       7.         US.DEPARTMENT OF AGRICULTURE SOLL CONSERVATION SERVICE       2" X 4" WEIR Soll CONSERVATION SERVICE       2" X 4" WEIR Soll CONSERVATIO	Construction Excavate completely around the elevation. Drive the 2" x 4" constru- ound at each corner of the sts on the ends of the in x 4" frame using the over p of the frame (weir) must ooding and safety issues Stretch the 1/2" x 1/2" d fasten securely. The east. Stretch the Geotextile ( e geotixtile extending fr let notch elevation. Fast e ends of the geotextile ided, then fastened down. Backfill around the inlet yer of earth is level with p elevation on the sides. If the inlet is not in a ross the ditch line direct ould be at least 6" higher The structure must be in in and the geotextile rep MENT OF AGRICULTURE NSERVATION SERVICE
<ul> <li>Seed and cover with straw mulch.</li> <li>Seed and cover with Ercsion Control Matting or line with sod.</li> <li>4'' - T'' stone or resyoled concrete equivalent pressed into the soil 7'' minimum         Construction Specifications         Construction shall be conveyed to a sediment         trapping device.         Constructions and undisturbed area shall outlet directly into an         undisturbed area at a non-erosive velocity.         A. All trees, brush, stumps, obstructions, and other objectional material         shall be removed and disposed of so as not to interfere with the proper         functioning of the dike.         S. The dike shall be excavated or shaped to line, grade and cross section as         regulared to meet the criteria specified herein and be free of bank projections         or other inregularities which will impede normal flow.         G. Fill shall be compacted by earth moving equipment.         A. All earth removed and not needed for construction shall be placed so that         it will not interfere with the functioning of the dike.         Inspection and maintenance must be provided periodically and ofter         each rain event.         Sub <u>Conservation Stervice         A - 1 - 6         MARYLAND DEPARTMENT OF ENVIRONMENT         Soll conservation Stervice         Sub <u>Conservation Stervice         Sub Conservation Stervice         Sub Conservation Stervice         Sub <u>Conservation Stervice         Sub Conservation Stervice         Sub Conservation Stervice         Sub <u>Conservation Stervice         Sub Conservation Stervice         Sub</u></u></u></u></li></ul>	Excavate completely around the elevation. Drive the 2" x 4" construction at each corner of the sts on the ends of the in x 4" frame using the over p of the frame (weir) must ooding and safety issues Stretch the 1/2" x 1/2" d fasten securely. The elevation securely. The elevation of the geotextile of the geotextile of the geotextile of the geotextile of the frame down. Backfill around the inleger of earth is level with the elevation on the sides. If the inlet is not in corross the ditch line direct ould be at least 6" higher the frame direct ould be at least 6" higher the structure must be infin and the geotextile representation of the geotextile representation of the geotextile representation of the geotextile representation of the structure must be infin and the geotextile representation of the structure must be infin and the geotextile representation of the geotextile representation of the structure must be infin and the geotextile representation of the structure must be infin and the geotextile representation of the structure must be infin and the geotextile representation of the structure must be infin and the geotextile representation of the structure must be infin and the geotextile representation of the structure must be infin and the geotextile representation of the structure must be infin and the geotextile representation of the structure must be infin and the geotextile representation of the structure must be infin and the geotextile representation of the structure must be infin and the geotextile representation of the structure must be infin and the geotextile representation of the geotextile representation of the geotextile representation of the geotextile representation of the geotextile representation of the geotextile representation of the geotextile representation of the geotextile representation of the geotextile representation of the geotextile representation of the geotextile representation of the geotextile representation of the geotextile representation of the geotextile representation of t
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2. Runoff diverted from a disturbed area shall be conveyed to a sediment trapping device. 3. Runoff diverted from an undisturbed area shall outlet directly into an undisturbed, stabilized area at a non-erosive velocity. 4. All trees, brush, stumps, obstructions, and other objectional material shall be removed and disposed of so as not to interfere with the proper functioning of the dike. 5. The dike shall be excavated or shaped to line, grade and cross section as required to meet the orlieria specified herein and be free of bank projections or other irregularities which will impede normal flow. 6. Fill shall be compacted by earth moving equipment. 7. All earth removed and not needed for construction shall be placed so that it will not interfere with the functioning of the dike. 8. Inspection and maintenance must be provided periodically and after each rain event. US.DEPARTMENT OF AGRICULTURE PAGE MARYLAND DEPARTMENT OF ENVIRONMENT SOIL CONSERVATION SERVICE A -1-6  ETIALL 23C - CURB INLET PROTECTION (COG OR COS INLETS)  5' MAXIMUM SPACING 0F 2" X 4" ANCHORS 2" X 4" WEIR 5' MAXIMUM SPACING 0F 2" X 4" ANCHORS 2" X 4" WEIR 5' MAXIMUM SPACING 0F 2" X 4" ANCHORS 2" X 4" WEIR 5' MAXIMUM SPACING 0F 2" X 4" ANCHORS 2" X 4" WEIR 5' MAXIMUM SPACING 0F 2" X 4" ANCHORS 2" X 4" WEIR 5' MAXIMUM SPACING 0F 2" X 4" ANCHORS 2" X 4" WEIR 5' MAXIMUM SPACING 0F 2" X 4" ANCHORS 2" X 4" WEIR 5' MAXIMUM SPACING 0F 2" X 4" ANCHORS 2" X 4" WEIR 5' MAXIMUM SPACING 0F 2" X 4" ANCHORS 2" X 4" WEIR 5' MAXIMUM SPACING 0F 2" X 4" ANCHORS 2" X 4" WEIR 5' MAXIMUM SPACING 0F 2" X 4" ANCHORS 2" X 4" WEIR 5' MAXIMUM SPACING 0F 2" X 4" ANCHORS 2" X 4" WEIR 5' MAXIMUM SPACING 0F 2" X 4" ANCHORS 2" X 4" WEIR 5' MAXIMUM SPACING 0F 2" X 4" ANCHORS 2" X 4" WEIR 5' MAXIMUM SPACING 0F 2" X 4" ANCHORS 2" X 4" WEIR 5' MAXIMUM SPACING 0F 2" X 4" ANCHORS 2" X 4" WEIR 5' MAXIMUM SPACING 0F 2" X 4" ANCHORS 2" X 4" WEIR 5' MAXIMUM SPACING 5' MAXIMUM SPACING 5' MAXIMUM SPACING 5' MAXIMUM SPACING 5' MAXIMUM SPACING	ooding and safety issues Stretch the 1/2" x 1/2" d fasten securely. The o st. Stretch the Geotextile ( e geotixtile extending fr let notch elevation. Fas e ends of the geotextile lded, then fastened down. Backfill around the inle yer of earth is level with p elevation on the sides. If the inlet is not in o ross the ditch line direct ould be at least 6" higher The structure must be in in and the geotextile report MENT OF AGRICULTURE NSERVATION SERVICE
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SOIL CONSERVATION SERVICE A - 1 - 6 WATER MANAGEMENT ADMINISTRATION SOIL CO	NSERVATION SERVICE
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6' MAXIMUM SPACING OF 2" X 4" SPACERS 2" X 4" ANCHORS 2" X 4" WEIR 3'4"-1 <sup>1</sup> '2" STONE E LI TER CLOTH	DETAIL 23B – AT
TILTER CLOTH	LE CLASS E
WIRE MESH $2'' \times 4''$ WEIR MAX. DRAINAGE AREA = $\frac{1}{4}$ ACRE	
	-→ 6″ ◄-
Construction Specifications	6"
') to the 2" x 4" weir (measuring throat length plus 2') as shown on the standard rawing.	
	I
STANDA	RD SYMBOL
5. The assembly shall be placed so that the end spacers are a minimum 1' beyond	AGIP
both ends of the throat opening. 6. Form the $1/2'' \times 1/2''$ wire mesh and the geotextile fabric to the concrete gutter and	
	Constr grate and wrap with Geote
7. This type of protection must be inspected frequently and the filter cloth	grate back in place. e <sup>3</sup> ′4″ to 1 <sup>1</sup> ′2″ stone, 4″-6′
	a 34″ to 11⁄2″ stone, 4″−6′ additional filtration.
	MENT OF AGRICULTURE NSERVATION SERVICE
DEPARTMENT OF PUBLIC WORKS	
CTOR OF PUBLIC WORKS Achie DATE DATE DATE	PREPARED BY



DATE

REVISION

DATE: 10/06

BY NO.

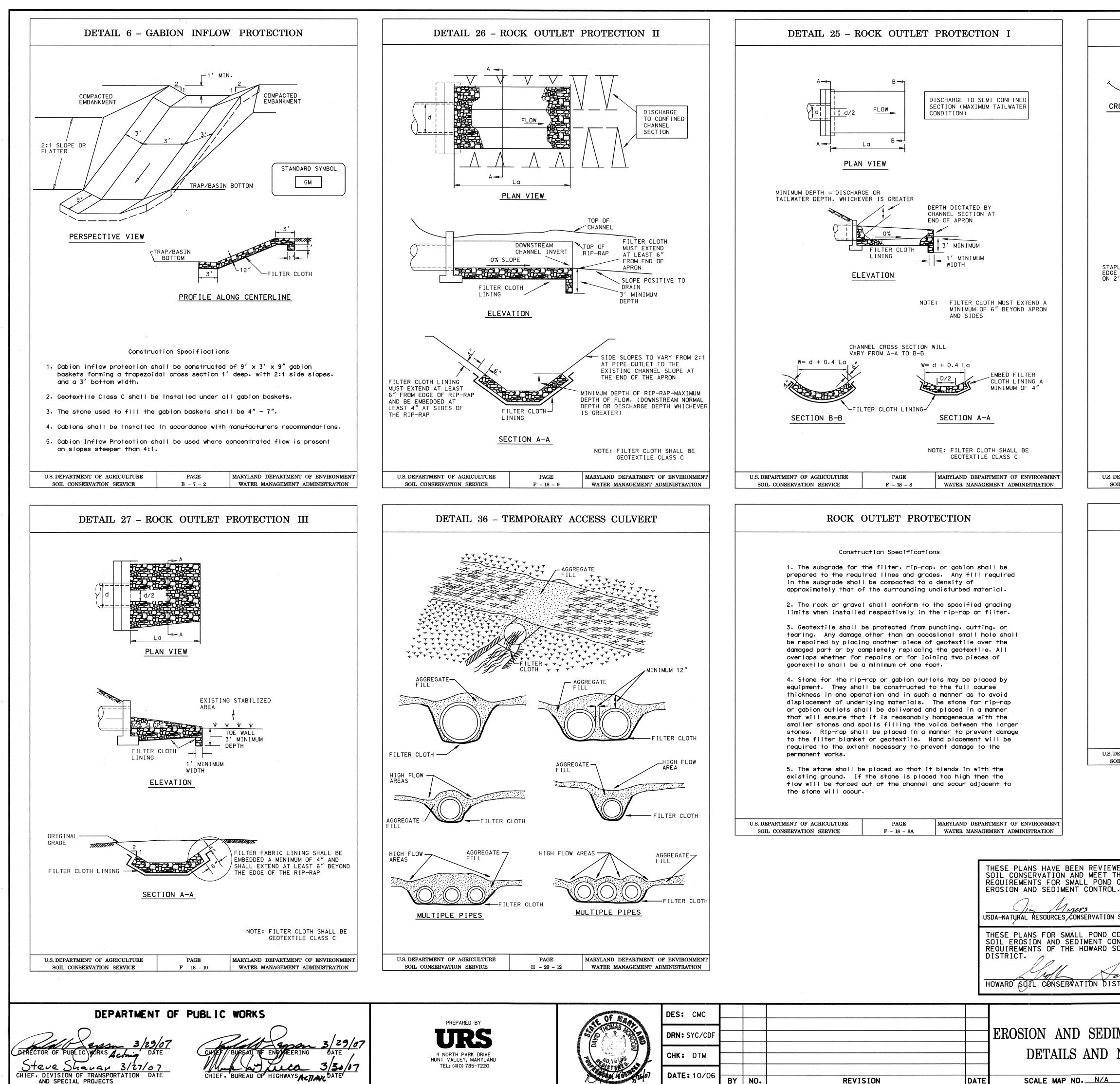
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DETAIL 2	2 – TEMPORAR	Y SWALE
	1 OR FLATTER OPES MINIMUM PTH MINIMUM IDTH	EXISTING GROUND <u>SWALE A SWALE B</u> C 1' MIN. 1' MIN. D 4' MIN. 6' MIN. OUTLET AS REQUIRED
FLOW O	.5% SLOPE MINIMUM	FLOW VVVV
	PLAN VIEW ANNEL STABILIZATION 0.5% MIN. 10% MAX.	$\frac{A - 2}{B - 3}$
Seed and cover with str Seed and cover with Ero 4"-7" stone or recycled a minimum 7" layer.	sion Control Mattin	
Constru	ction Specifications	5
		ted positive grade to an grades less than 1%.
Runoff diverted from a c iment trapping device.	disturbed area shall	l be conveyed to a
Runoff diverted from an isturbed stabilized area		nall outlet directly into an velocity.
All trees, brush, stump Il be removed and dispo per functioning of the s	sed of so as not to	d other objectional material interfere with the
•	t the criteria speci	line, grade and cross ified herein and be free of n will impede normal flow.
Fill, if necessary, sha	II be compacted by e	earth moving equipment.
All earth removed and no t it will not interfere		ruction shall be placed so ng of the swale.
Inspection and maintena h rain event.	nce must be provided	d periodically and after
RTMENT OF AGRICULTURE CONSERVATION SERVICE	PAGE A - 2 - 4	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

ſ	ENGINEER'S CERTIFICATE	
	" I certify that this plan for pond construction and for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard So Conservation District. I have notified the developer that he/she must engage a register professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.	ed
WED FOR THE HOWARD AND MEET THE SMALL POND	Signature of Engineer (print name below signature) DAVIO T. MORICANI DAVIO T. MORICANI	
AND SEDIMENT CONTROL	DEVELOPER'S CERTIFICATE	
A 30 07 I SERVICE DATE CONSTRUCTION, DNTROL MEET THE SOIL CONSERVATION	" I/We certify that all development and construction will be done according to these pland that any responsible personnel involved in the construction of this project will have certificate of Attendance at a Department of Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize period on-site inspection by the Howard Soil Conservation District." I shall engaged a register professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.	ve a odic red
A 30/07 STRICT DATE	Signature of Developer (print name below signature) Bignature of Developer (print name below signature) Broadd G. Lepson	-
		SCALE
IMENT CONTROL	DORSEY RUN ROAD EXTENSION MD 175 TO	N.T.S.
NOTES – II	DORSEY RUN INDUSTRIAL CENTER ELECTION DISTRICT NO. 1 - JESSUP, MARYLAND CAPITAL PROJECT J-4148-C	SHEET <u>28</u> 0F <u>74</u>

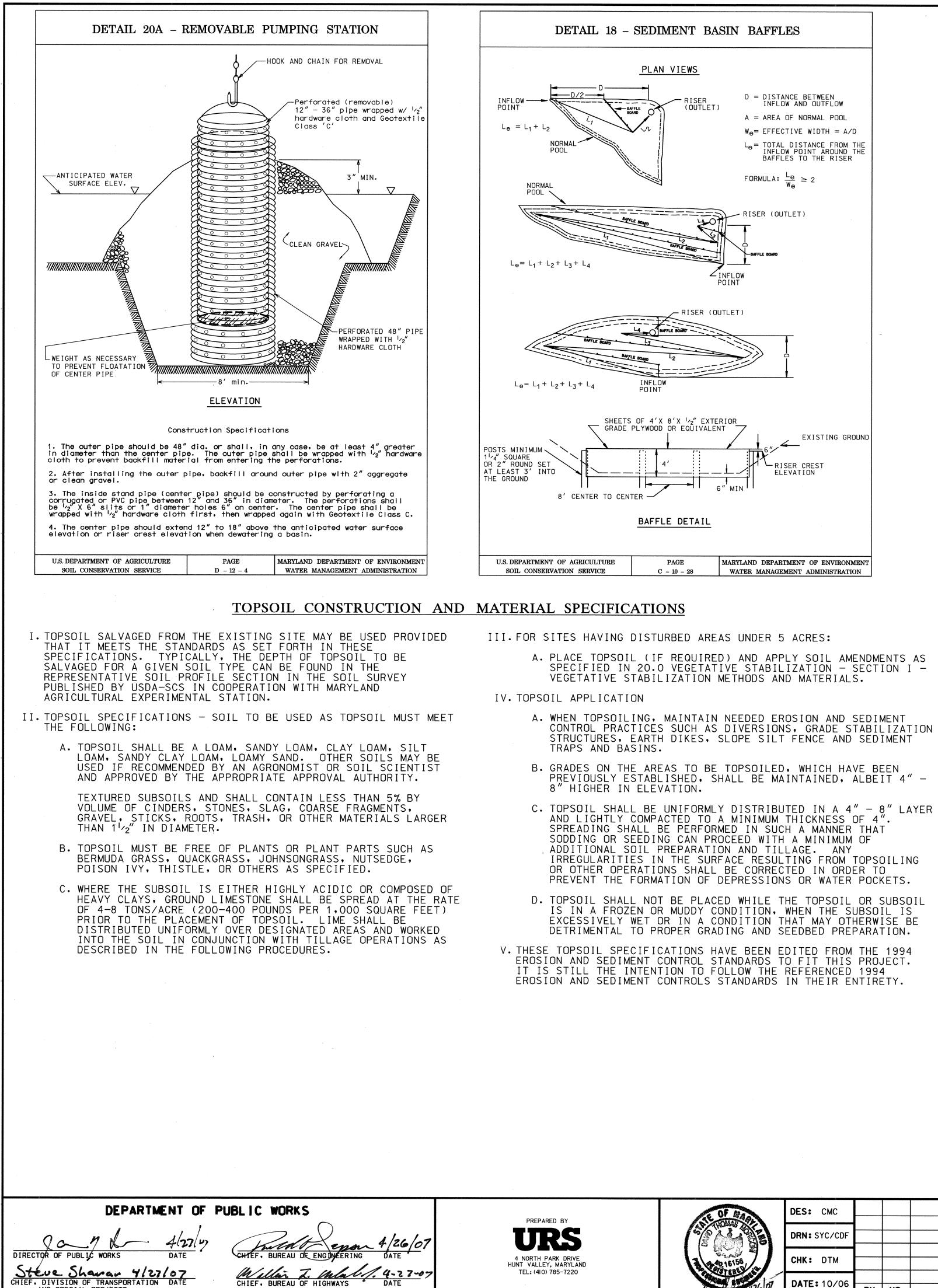
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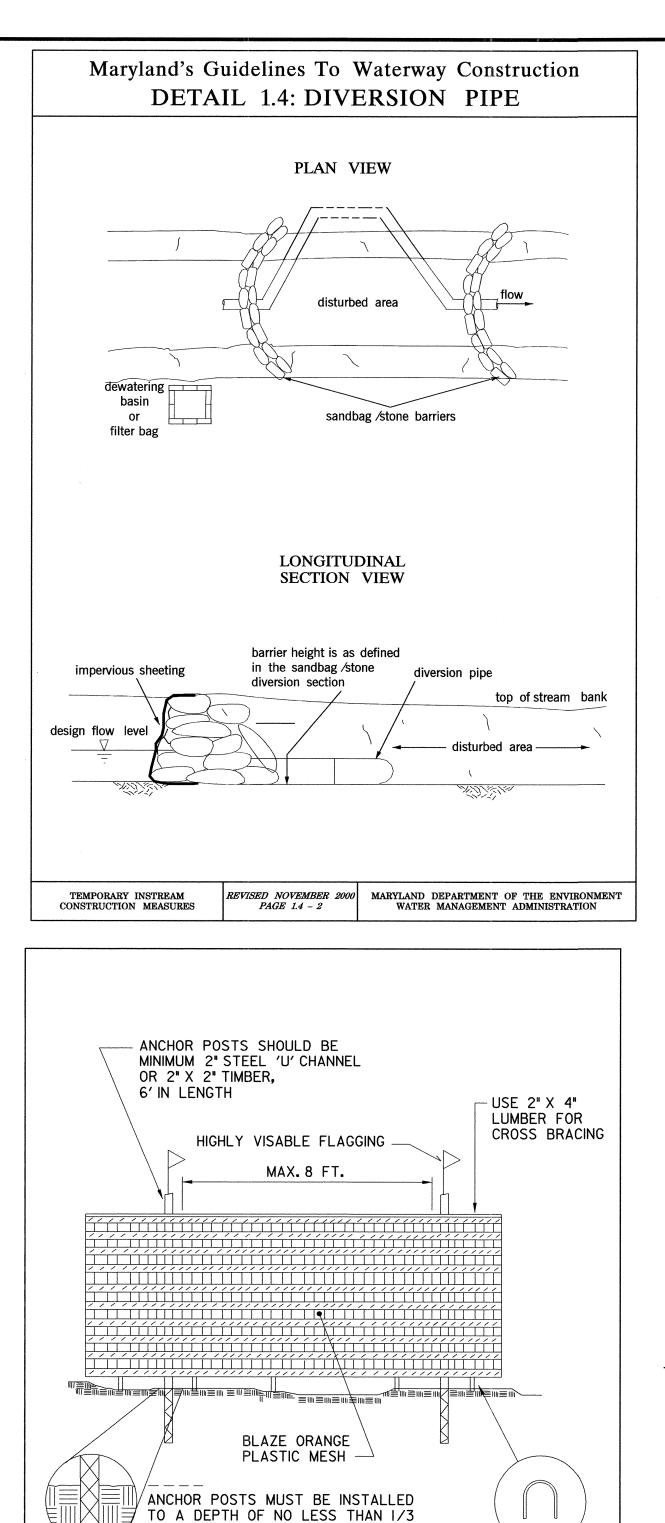


DETAIL 30 – ER	OSION CONTROL MATTING		
ROSS-SECTION B ////			· · ·
PLE OUTSIDE OF MATTING 2' CENTERS	4" OVERLAP OF MATTING STRIPS WHERE TWO OR MORE STRIP WIDTHS ARE REQUIRED. ATTACH STAPLES ON 18" CENTERS * * * * * * * * * * * * * * *		
	6" TYPICAL STAPLES NO. 11 GAUGE WIRE		
DEPARTMENT OF AGRICULTURE DIL CONSERVATION SERVICE	PAGE MARYLAND DEPARTMENT OF ENVIRONMENT G – 22 – 2 WATER MANAGEMENT ADMINISTRATION		·
	· · · · · · · · · · · · · · · · · · ·		
	CONTROL MATTING		
1. Key-in the matting by p narrow trench, 6" in depth conform to the channel cro about 4" down slope from t	action Specifications placing the top ends of the matting in a n. Backfill the trench and tamp firmly to pss-section. Secure with a row of staples the trench. Spacing between staples is 6". In the channel center using an 18" spacing		
3. Before stapling the out	er edges of the matting, make sure the irm contact with the soil.		
-	1 2' apart with 4 rows for each strip, 2		
the top strip shall overla shiplap fashion, Reinforce	ng ends and another begins, the end of up the upper end of the lower strip by 4", a the overlap with a double row of staples gered pattern on either side.		
6. The discharge end of th secured with 2 double rows	ne matting liner should be similarly s of staples.		
Note: If flow will enter f effected by the flow must	From the edge of the matting then the area be keyed-in.		
DEPARTMENT OF AGRICULTURE DIL CONSERVATION SERVICE	PAGE MARYLAND DEPARTMENT OF ENVIRONMENT G – 22 – 2A WATER MANAGEMENT ADMINISTRATION		
Г	ENGINEER'S CERTIFICA	TE	
	" I certify that this plan for pond construction ar represents a practical and workable plan based on my conditions. This plan was prepared in accordance wit Conservation District. I have notified the developer professional engineer to supervise pond construction Conservation District with an "as-built" plan of the	y personal knowledge of the site th the requirements of the Howard So r that he/she must engage a register(	ed
ED FOR THE HOWARD HE TECHNICAL CONSTRUCTION, SOIL	Signature of Engineer (print name below signature) DAVID T. MORICONI	<b>3/26/2007</b> Date	-
SERVICE / / DATE	DEVELOPER'S CERTIFIC/ " I/We certify that all development and construction and that any responsible personnel involved in the of Certificate of Attendance at a Department of Enviror the Control of Sediment and Erosion before beginning on-site inspection by the Howard Soil Conservation E professional engineer to supervise pond construction District with an "as-built" plan of the pond within	n will be done according to these pla construction of this project will hav nment Approved Training Program for g the project. I also authorize perio District." I shall engaged a register	ve a odic red
TRICT DATE	Signature of Developer (print name below signature)	4/26/07 G.Lepsm <sup>Date</sup>	_
		/	SCALE
MENT CONTROL NOTES – III	DORSEY RUN ROAD MD 175 T DORSEY RUN INDUST		N.T.S.
BLOCK_NO	ELECTION DISTRICT NO. 1 - C CAPITAL PROJECT C		SHEET 29 OF 74

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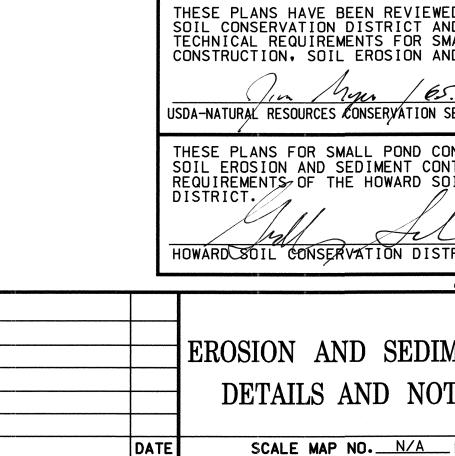


AND SPECIAL PROJECTS



ORANGE CONSTRUCTION FENCE NOT TO SCALE

OF THE TOTAL HEIGHT OF POST



USE 8" WIRE

'U' TO SECURE

FENCE BOTTOM

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C A A LONG	)
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BY NO.

REVISION

# MGWC 1.4: DIVERSION PIPE

#### Temporary measure for dewatering inchannel construction sites

### DESCRIPTION

The work should consist of installing flow diversion pipes in combination with sandbag or stone diversions when construction activities occur within the stream channel.

## **EFFECTIVE USES & LIMITATIONS**

Diversion pipes with an insufficient flow capacity can cause the channel diversion to fail thereby resulting in severe erosion of the disturbed channel section under construction. Therefore, in-channel construction activities should occur only during periods of low flow.

MATERIAL SPECIFICATIONS

Materials for stream diversions should meet the following requirements

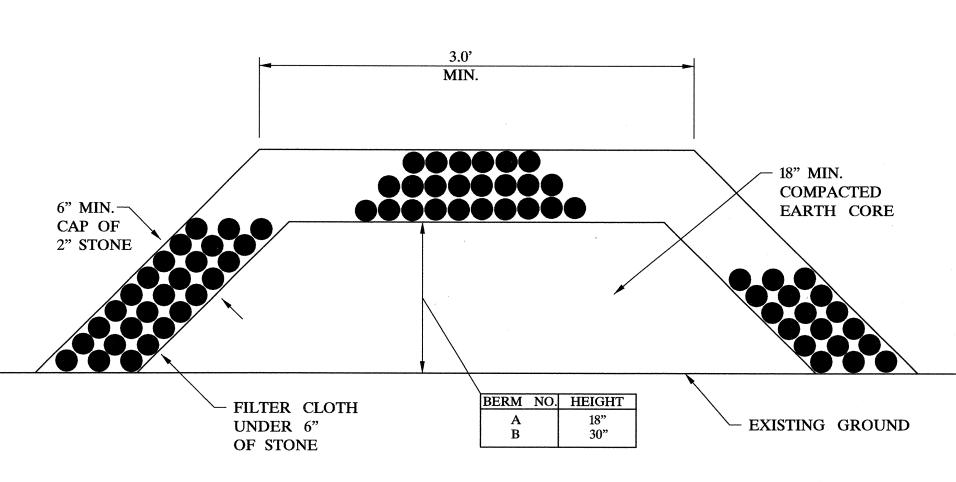
- \* Riprap: Stone should be washed and have a minimum diameter of 6 inches (15 centimeters).
- \* Sandbags: Sandbags should consist of materials which are resistant to ultra-violet radiation, tearing, and puncture and should be woven tightly enough to prevent leakage of fill material (i.e., sand, fine gravel, etc.).
- \* Sheeting: Sheeting should consist of polyethylene or other material which is impervious and resistant to puncture and tearing.

#### INSTALLATION GUIDELINES

All erosion and sediment control devices including mandatory dewatering basins should be installed as the first order of business according to a plan approved by the WMA or local authority. Installation should proceed from upstream to downstream during low flow conditions. If necessary, silt fence or straw bales should be installed around the perimeter of the work area.

Diversion pipes with sandbag or stone barriers should be completed as follows (refer to Detail 1.4):

- 1. Sandbag/stone barriers should be sized and installed as detailed in MGWC 1.5: Sandbag/Stone Diversion. The materials should be sized to withstand baseflow velocities.
- 2. All excavated material should be deposited and stabilized in an approved area outside the 100-year floodplain unless otherwise authorized by the WMA.
- 3. Sediment-laden water from the construction area should be pumped to a dewatering basin.
- 4. The diversion pipe should have a minimum capacity sufficient to convey the 2-year flow for projects with a duration of two weeks or greater. For projects of shorter duration, the capacity of the pipe can be reduced accordingly.
- 5. If necessary, silt fence or straw bales should be installed around the perimeter of the work area.
- 6. Sediment control devices are to remain in place until all disturbed areas are stabilized and the inspecting authority approves their removal.

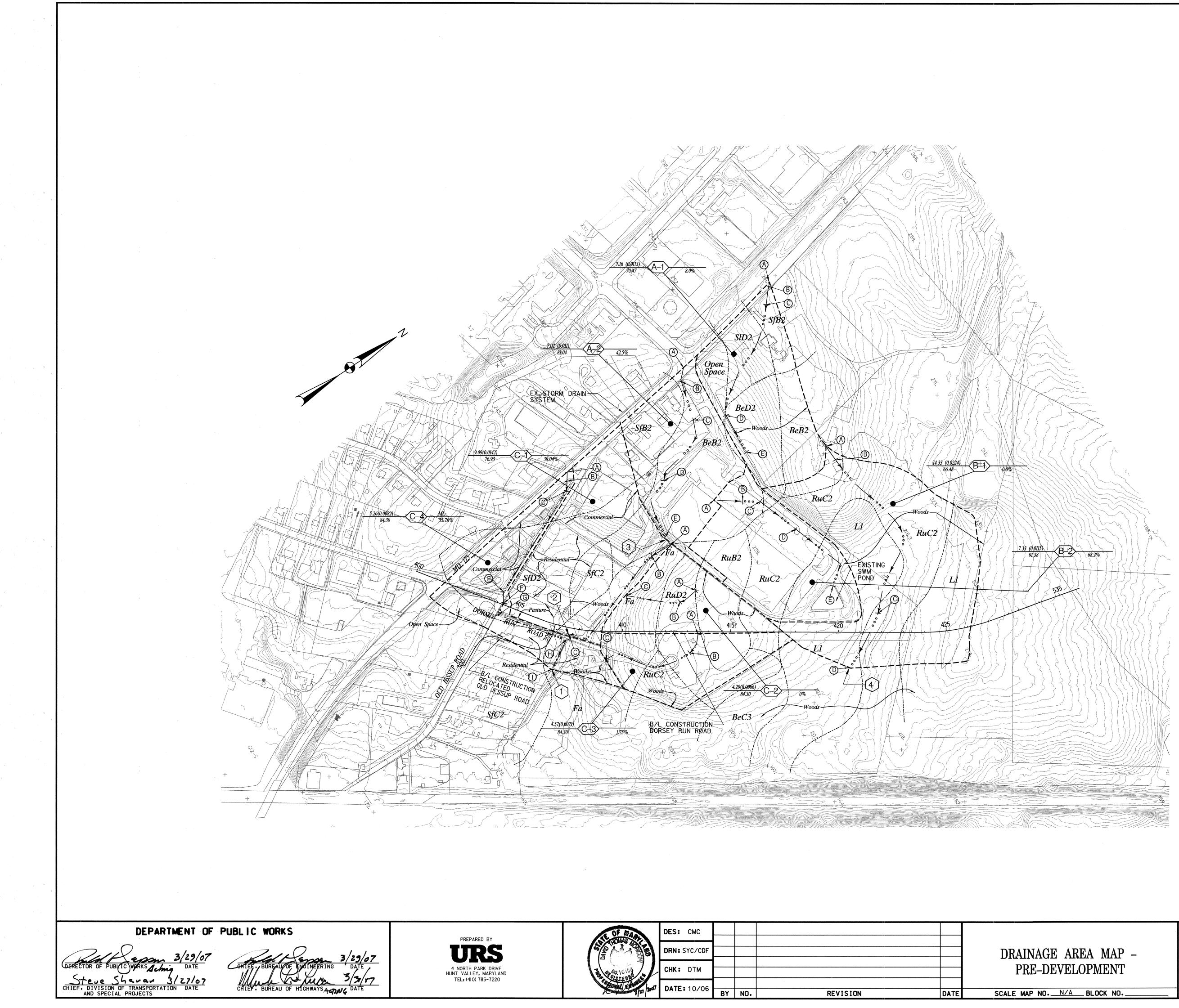


## FILTER CLOTH SHALL BE GEOTEXTILE CLASS "C", OR BETTER.

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Г	ENGINEER'S CERTIFICATE	
	" I certify that this plan for pond construction and for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soi Conservation District. I have notified the developer that he/she must engage a registere professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.	i I Əd
D FOR THE HOWARD D MEET THE ALL POND	Signature of Engineer (print name below signature) DAVID T. MORICONI DAVID T. MORICONI	
D SEDIMENT CONTROL.	DEVELOPER'S CERTIFICATE	
ERVICE DATE	" I/We certify that all development and construction will be done according to these pla and that any responsible personnel involved in the construction of this project will hav Certificate of Attendance at a Department of Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize perio on-site inspection by the Howard Soil Conservation District." I shall engaged a register professional engineer to supervise pond construction and provide the Howard Soil Conserv District with an "as-built" plan of the pond within 30 days of completion.	ve a odic red
- 7/38/07 RICT DATE	Signature of Developer (print name below signature) Date	-
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TES AND - IV	DORSEY RUN INDUSTRIAL CENTER ELECTION DISTRICT NO. 1 - JESSUP, MARYLAND CAPITAL PROJECT J-4148-C	SHEET 30 OF 7

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1 1 has7	DATE: 10/06	BY	NO.	REVISION	DATE	SCALE MAP NON/A

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRCUTION. SOIL EROSION AND SEDIMENT CONTROL. 167 190 50/07 USDA-NATURAL RESOURCES CONSERVATION SERVICE DÁTE THESE PLANS FOR SMALL POND CONSTRUCTION SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. HOWARD SC

SOIL CHART					
SYMBOL	NAME/DESCRIPTION	TYPE			
BeB2	BELTSVILLE SILT LOAM, 1 TO 5 PERCENT SLOPES, MODERATELY ERODED	С			
BeC3	BELTSVILLE SILT LOAM, 1 TO 5 PERCENT SLOPES, SEVERELY ERODED	С			
Fa	FALLSINGTON LOAM	D			
L1	LEONARDTOWN SILT LOAM	D			
RuB2	RUMFORD LOAMY SAND, 1 TO 5 PERCENT SLOPES, MODERATELY ERODED	В			
RuC2	RUMFORD LOAMY SAND 5 TO 10 PERCENT SLOPES, MODERATELY ERODED	В			
RuD2	RUMFORD LOAMY SAND, 10 TO 15 PERCENT SLOPES, MODERATELY ERODED	В			
SfB2	SASSAFRAS GRAVELLY SANDY LOAM, 1 TO 5 PERCENT SLOPES MODERATELY ERODED	В			
SfC2	SASSAFRAS GRAVELLY SANDY LOAM, 5 TO 10 PERCENT SLOPES, MODERATELY ERODED	В			
SfD2	SASSAFRAS GRAVELLY DANDY LOAM, 10 TO 15 PERCENT SLOPES, MODERATELY ERODED	В			
HOV	VARD SOIL SURVEY MAP NUMBER 30				

<u>LEGEND</u>

1 STUDY POINT

A

 $\xrightarrow{\textcircled{B}} \cdots \xrightarrow{} \cdots \xrightarrow{} \text{TIME OF CONCENTRATION PATH}$ ---- DRAINAGE DIVIDE

AREA (AC, SM) A-1 ZONING DRAINAGE AREA DESIGNATION SOIL BOUNDARY

NOTES: I. RCN IS BASED ON CURRENT LAND USE, NOT CURRENT ZONING.

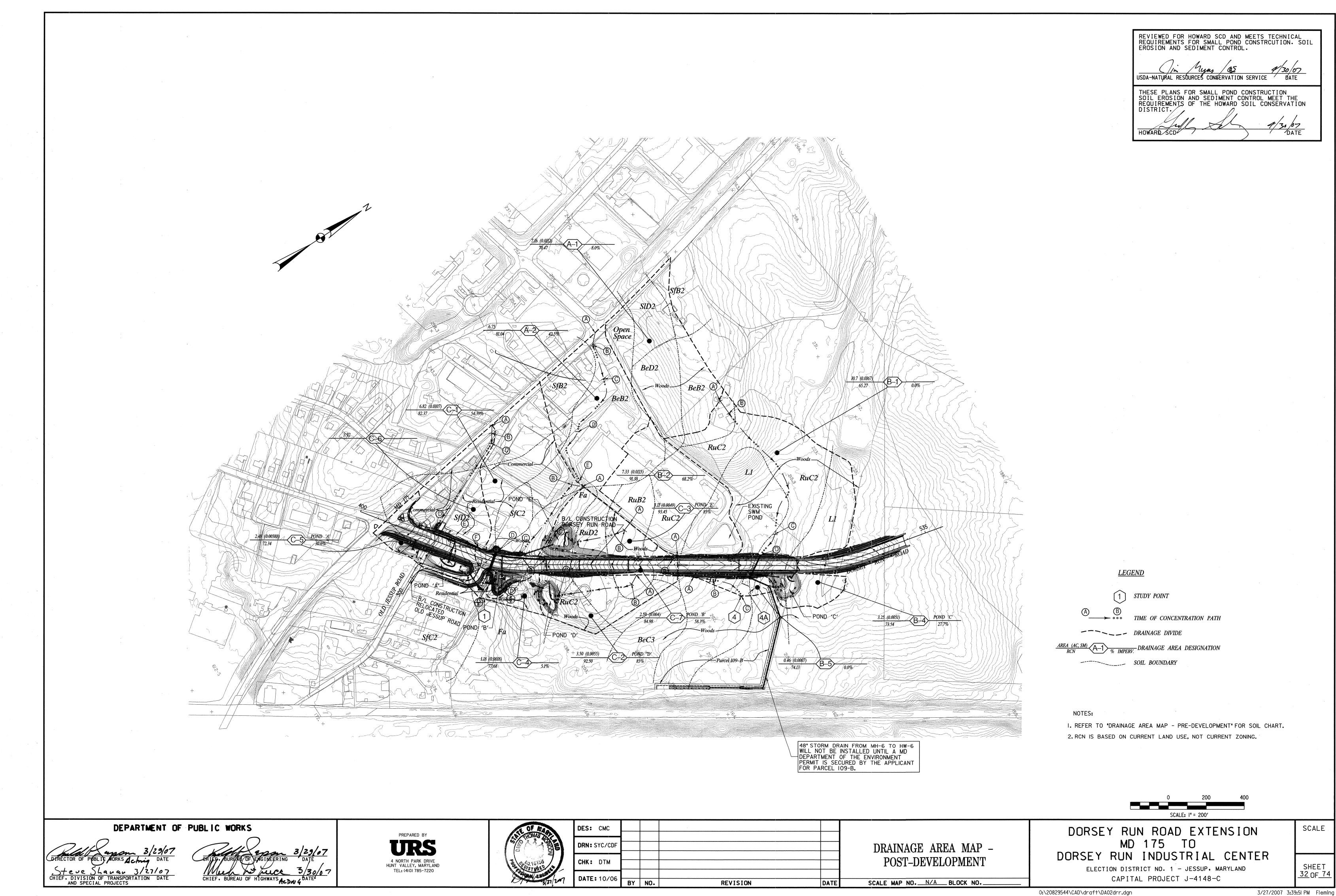
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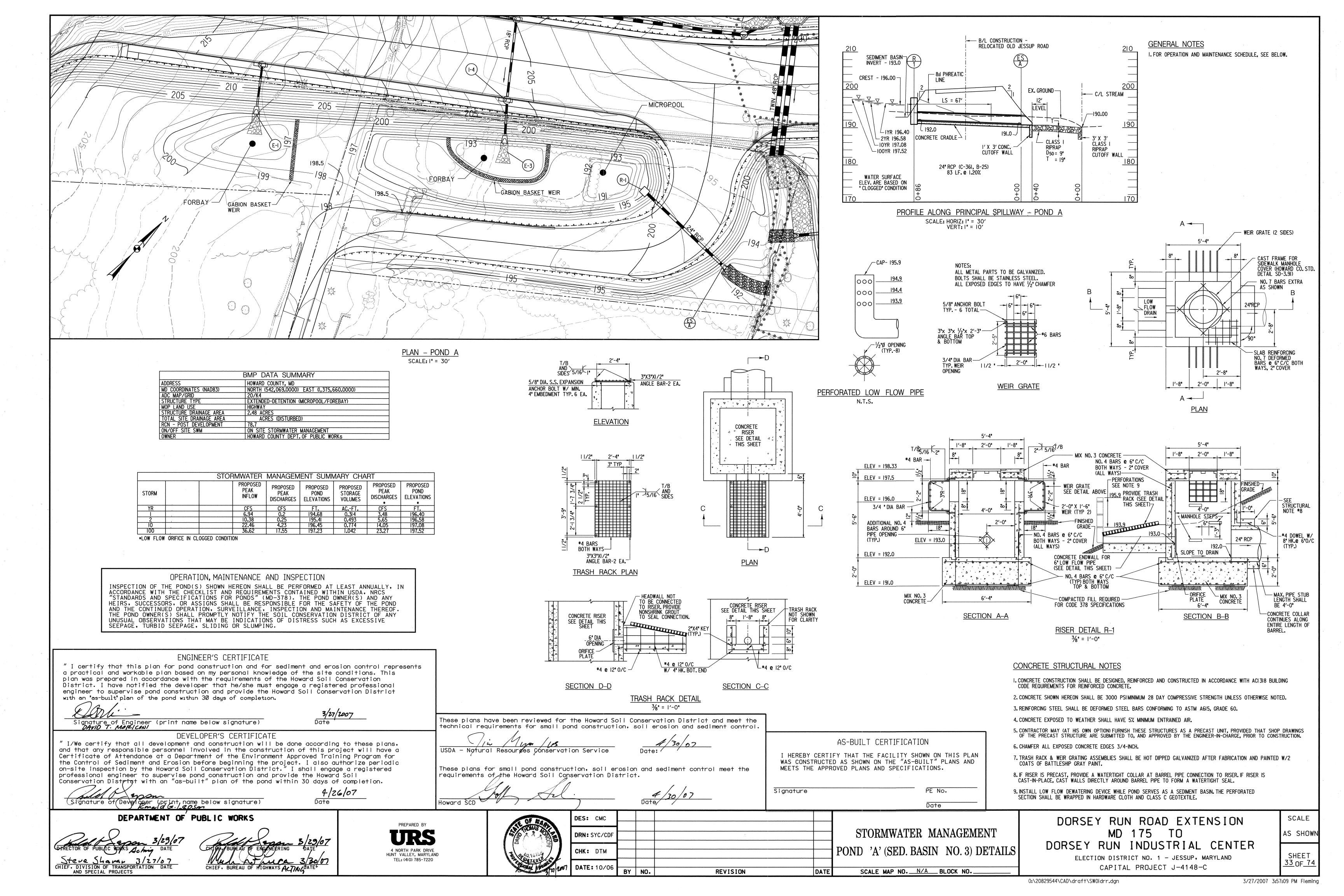
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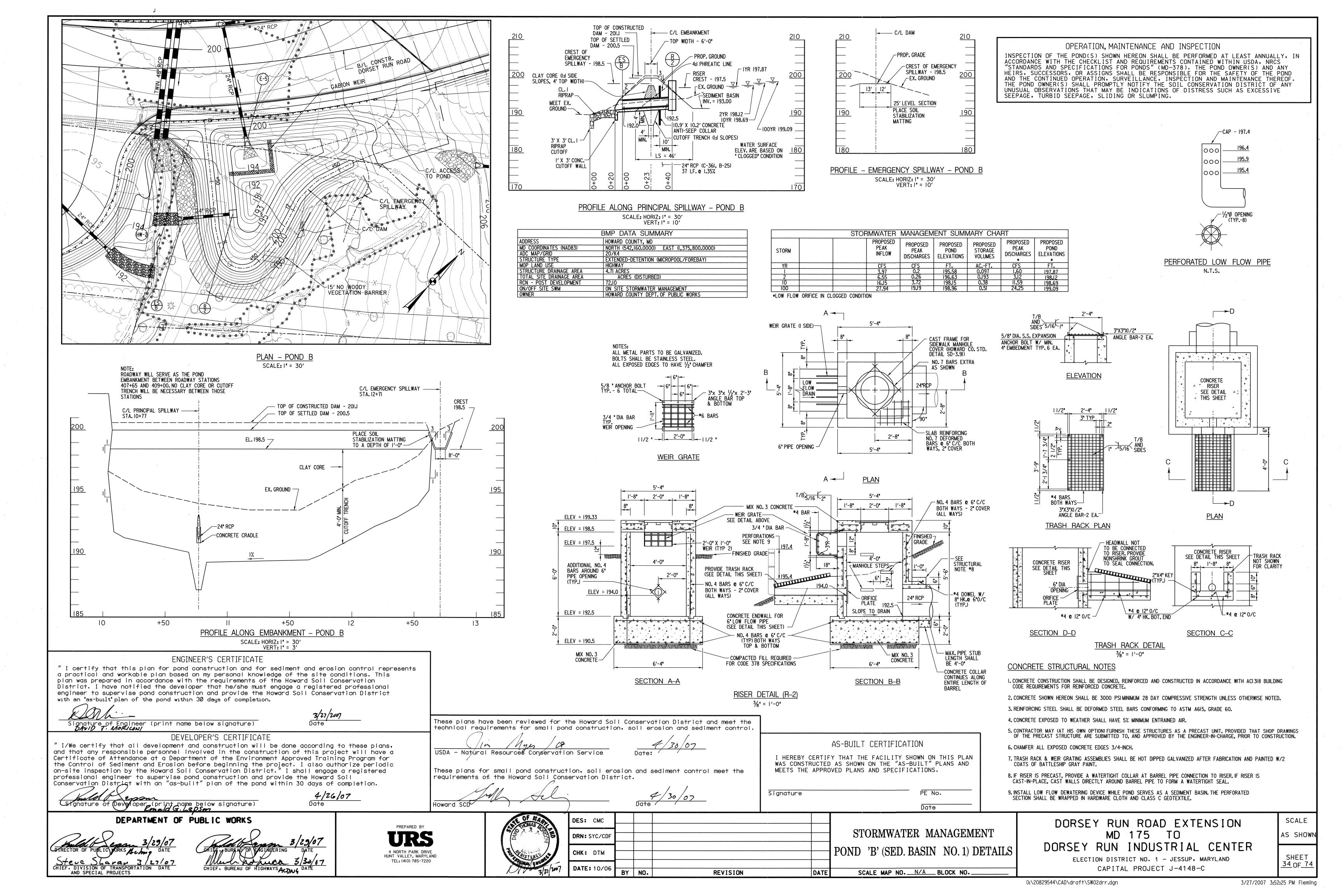
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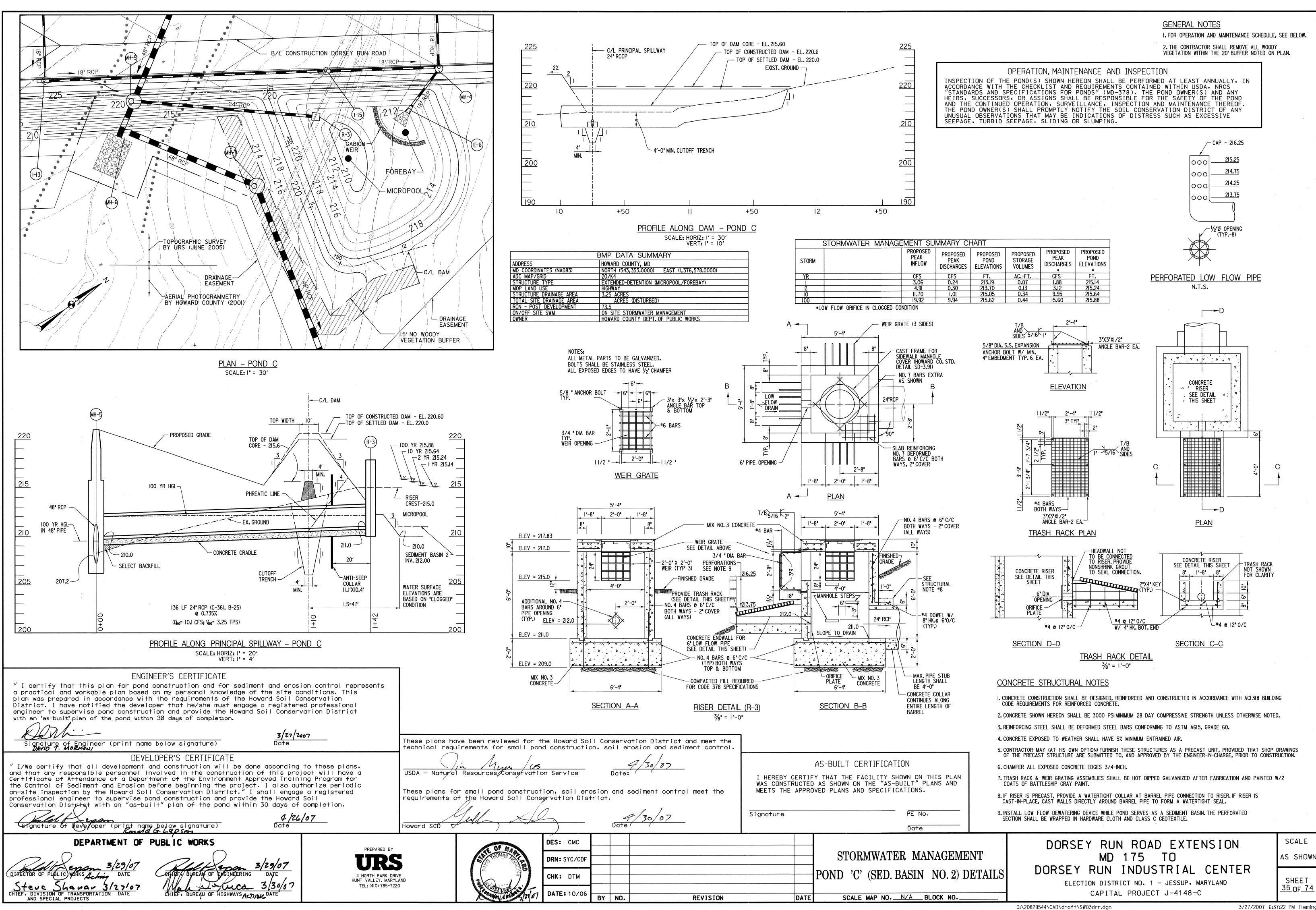
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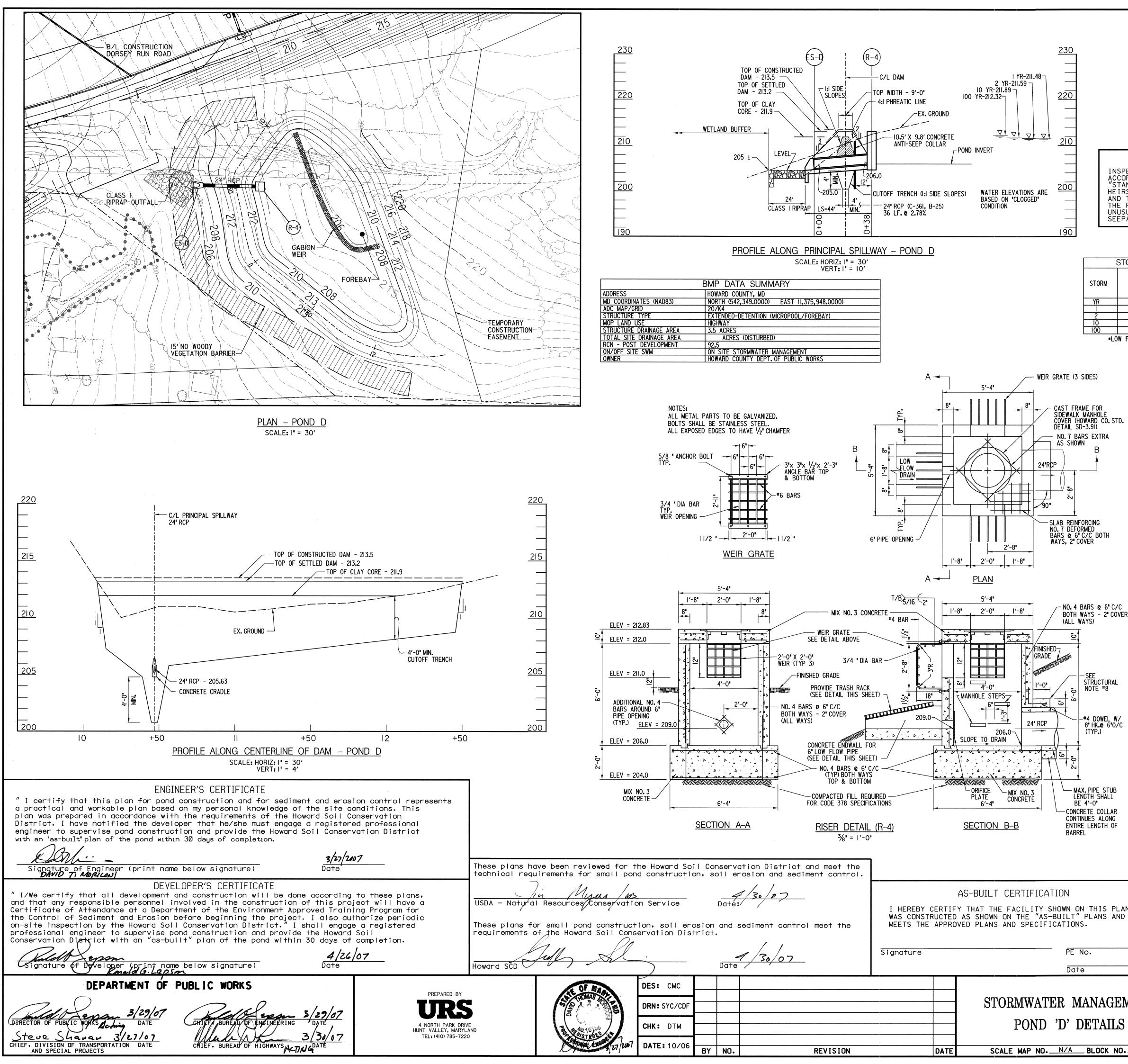
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40,10158 9/51 chat	CHK: DTM					POST-DEVELO
	DRN: SYC/CDF					DRAINAGE AREA
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OF RACE	DES: CMC					







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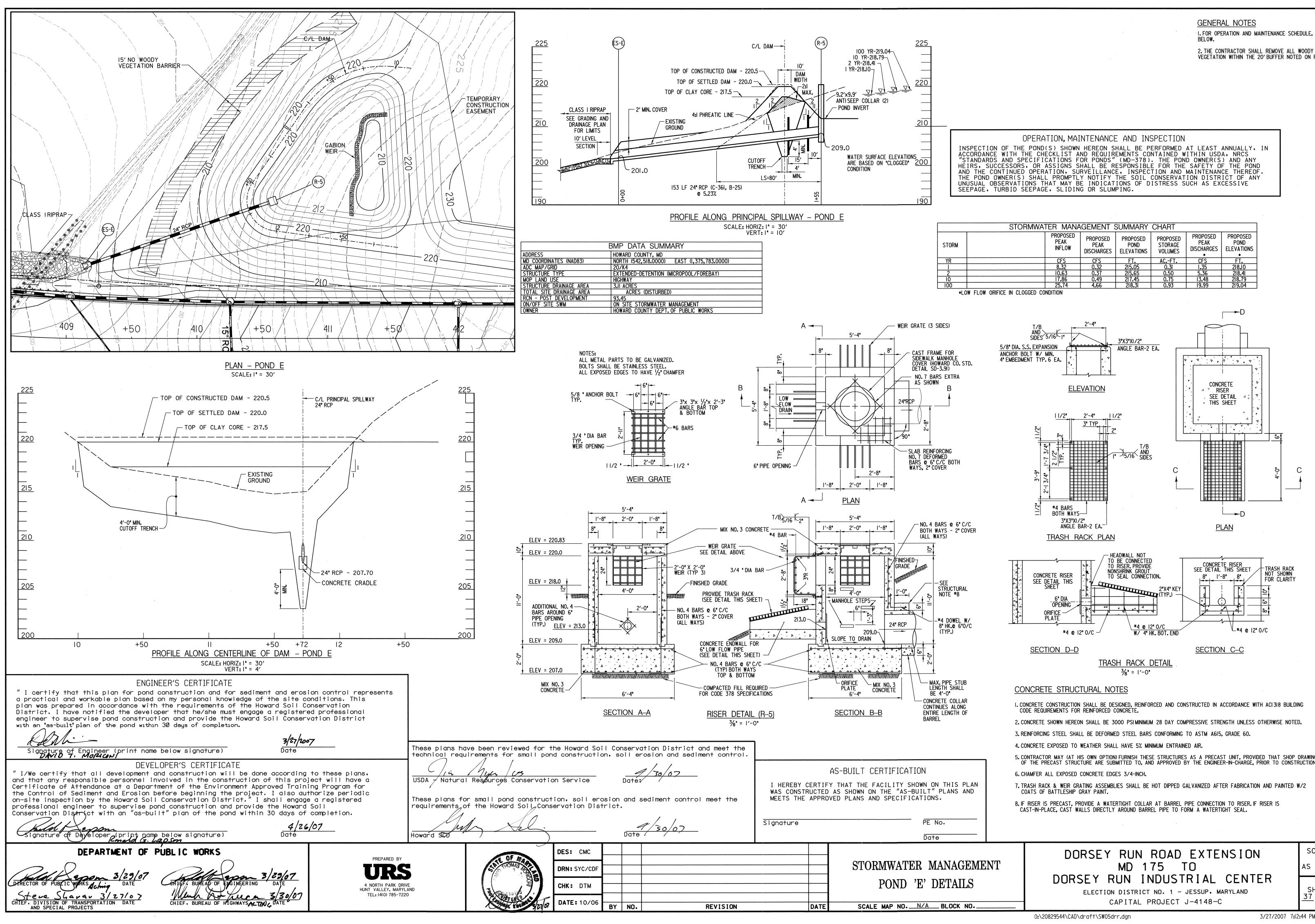


OPERATION, MAINTENANCE AND INSPECTION INSPECTION OF THE POND(S) SHOWN HEREON SHALL BE PERFORMED AT LEAST ANNUALLY, IN ACCORDANCE WITH THE CHECKLIST AND REQUIREMENTS CONTAINED WITHIN USDA, NRCS "STANDARDS AND SPECIFICATIONS FOR PONDS" (MD-378). THE POND OWNER(S) AND ANY HEIRS, SUCCESSORS, OR ASSIGNS SHALL BE RESPONSIBLE FOR THE SAFETY OF THE POND AND THE CONTINUED OPERATION, SURVEILLANCE, INSPECTION AND MAINTENANCE THEREOF. THE POND OWNER(S) SHALL PROMPTLY NOTIFY THE SOIL CONSERVATION DISTRICT OF ANY UNUSUAL OBSERVATIONS THAT MAY BE INDICATIONS OF DISTRESS SUCH AS EXCESSIVE SEEPAGE. TURBID SEEPAGE. SLIDIC OR SLUMPING SEEPAGE, TURBID SEEPAGE, SLIDING OR SLUMPING.

	TER MANAGEMENT SUMMARY CHART PROPOSED PROPOSED
STORM	INFLOW PEAK POND STORAGE DISCHARGES ELEVATIONS VOLUMES
<u>YR</u> 1 2	CFS         CFS         FT.         ACFT.         CFS         FT.           9.10         0.63         211.02         0.32         6.30         211.48           11.73         3.14         211.21         0.35         8.79         211.59
10 100	19.95         14.94         211.21         0.55         0.15         211.35           28.91         24.27         212.17         0.53         20.59         212.32
*LOW FLOW ORIF	ICE IN CLOGGED CONDITION
3 SIDES)	T/B 2'-4"
	SIDES 5/16 I
K MANHOLE (HOWARD CO.STD.	ANCHOR BOLT W/ MIN. 4" EMBEDMENT TYP. 6 EA.
SD-3.91) BARS EXTRA	
OWN B	ELEVATION
F]	THIS SHEET
	$\frac{11/2}{3} \frac{2'-4}{1} \frac{1/2}{2}$
r	
∟ NFORCING FORMED	$\begin{bmatrix} T \\ T \\ T \\ T \\ T \\ T \\ T \\ T \\ T \\ T $
FORMED 6" C/C BOTH COVER	
	#4 BARS BOTH WAYS      3"X3"X1/2"       D
4 BARS @ 6"C/C H WAYS - 2"COVER (WAYS)	ANGLE BAR-2 EA' <u>PLAN</u> <u>TRASH_RACK_PLAN</u>
2	
	HEADWALL NOT TO BE CONNECTED TO RISER. PROVIDE NONSHRINK GROUT CONCRETE RISER CONCRETE RISER CONCRETE RISER TO SEAL CONNECTION. CONCRETE RISER TO SEAL CONNECTION. CONCRETE RISER CONCRETE RISER
SEE	CONCRETE RISER SEE DETAIL THIS SHEET SHEET CONCRETE RISER SHEET CONCRETE RISER SHEET CONCRETE RISER CONCRETE RISER SEE DETAIL THIS SHEET TO SEAL CONNECTION. CONCRETE RISER SHEET CONCRETE RISER
STRUCTURAL	
2	OPENING ORIFICE PLATE
#4 DOWEL W/ 8" HK.@ 6"0/C (TYP.)	#4 @ 12" 0/C #4 @ 12" 0/C #4 @ 12" 0/C
	<u>SECTION D-D</u> <u>SECTION C-C</u>
1	TRASH RACK DETAIL
MAX. PIPE STUB	$\frac{3}{8}$ " = 1'-0"
LENGTH SHALL BE 4'-0"	CONCRETE STRUCTURAL NOTES
NCRETE COLLAR NTINUES ALONG FIRE LENGTH OF	I. CONCRETE CONSTRUCTION SHALL BE DESIGNED, REINFORCED AND CONSTRUCTED IN ACCORDANCE WITH ACI318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
RREL	2. CONCRETE SHOWN HEREON SHALL BE 3000 PSIMINIMUM 28 DAY COMPRESSIVE STRENGTH UNLESS OTHERWISE NOTED.
	3. REINFORCING STEEL SHALL BE DEFORMED STEEL BARS CONFORMING TO ASTM A615, GRADE 60. 4. CONCRETE EXPOSED TO WEATHER SHALL HAVE 5% MINIMUM ENTRAINED AIR.
	5. CONTRACTOR MAY (AT HIS OWN OPTION) FURNISH THESE STRUCTURES AS A PRECAST UNIT, PROVIDED THAT SHOP DRAWINGS
	OF THE PRECAST STRUCTURE ARE SUBMITTED TO, AND APPROVED BY THE ENGINEER-IN-CHARGE, PRIOR TO CONSTRUCTION. 6. CHAMFER ALL EXPOSED CONCRETE EDGES 3/4-INCH.
ON THIS PLAN " PLANS AND	7. TRASH RACK & WEIR GRATING ASSEMBLIES SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION AND PAINTED W/2 COATS OF BATTLESHIP GRAY PAINT.
NS.	8. IF RISER IS PRECAST, PROVIDE A WATERTIGHT COLLAR AT BARREL PIPE CONNECTION TO RISER. IF RISER IS CAST-IN-PLACE, CAST WALLS DIRECTLY AROUND BARREL PIPE TO FORM A WATERTIGHT SEAL.
No.	VAST WETERVE, VAST WALLS DULEVILT AUTOIND DAUNEL FULL IV FUNM A WATERTIONT SEAL.
ite	
	DORSEY RUN ROAD EXTENSION SCALE
MANAGEMENT	
DETAILS	DORSEY RUN INDUSTRIAL CENTER
	ELECTION DISTRICT NO. 1 – JESSUP, MARYLAND SHEET CAPITAL PROJECT J-4148-C
BLOCK NO	

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I. FOR OPERATION AND MAINTENANCE SCHEDULE, SEE

VEGETATION WITHIN THE 20' BUFFER NOTED ON PLAN.

2. CONCRETE SHOWN HEREON SHALL BE 3000 PSI MINIMUM 28 DAY COMPRESSIVE STRENGTH UNLESS OTHERWISE NOTED.

5. CONTRACTOR MAY (AT HIS OWN OPTION) FURNISH THESE STRUCTURES AS A PRECAST UNIT, PROVIDED THAT SHOP DRAWINGS OF THE PRECAST STRUCTURE ARE SUBMITTED TO, AND APPROVED BY THE ENGINEER-IN-CHARGE, PRIOR TO CONSTRUCTION.

7. TRASH RACK & WEIR GRATING ASSEMBLIES SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION AND PAINTED W/2

SCALE AS SHOWN SHEET <u>37 OF 74</u>

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These specifications are appropriate to all ponds within the scope of the Standard for practice MD-378. All references to ASTM and AASHTO Specifications apply to the most recent version.

### Site Preparation

Areas designated for borrow areas, embankment, and structural works shall be cleared, grubbed and stripped of topsoil. All trees, vegetation, roots and other objectionable material shall be removed. Channel banks and sharp breaks shall be sloped to no steeper than I: All trees shall be cleared and grubbed within 15 feet of the toe of the embankment.

Areas to be covered by the reservoir will be cleared of all trees, brush, logs, fences, rubbish and other objectionable material unless otherwise designated on the plans. Trees, brush and stumps shall be cut approximately level with the ground surface. For dry stormwater management ponds, a minimum of a 25 foot radius around the inlet structure shall be cleared.

All cleared and grubbed material shall be disposed of outside and below the limits of the dam and reservoir as directed by the owner or his representative. When specified, a sufficient quantity of topsoil will be stockpiled in a suitable location for use on the embankment and other designated areas.

## <u>Earth Fill</u>

Material -The fill material shall be taken from approved designated borrow areas. It shall be free of roots, stumps, wood, rubbish, stones greater than 6, frozen or other objectionable materials. Fill material for the center of the embankment and cut off trench shall conform to Unified Soil Classification GC. SC. CH. or CL and must have at least 30% passing the #200 sieve. Consideration may be given to the use of other materials in the embankment if designed by a geotechnical engineer. Such special designs must have construction supervised be a geotechnical engineer. Materials used in the outer shell of the embankment must have the capability to support vegetation of the quality required to prevent erosion of the embankment. <u>Placement</u>-Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in maximum 8 inch thick (before compaction) layers, which are to be continuous over the entire length of the fill. The most permeable borrow material shall be placed in the downstream portions of the embankment. The principal spillway must be installed concurrently with fill placement

and not excavated into the embankment.

<u>Compaction</u>-The movement of the hauling and spreading equipment over the fill shall be controlled so that the entire surface of each lift shall be traversed by not less than one tread track of heavy equipment or compaction shall be achieved by a minimum of four complete passes of a sheepsfoot, rubber tired or vibratory roller. Fill material shall contain sufficient moisture to yield the required degree of compaction with the equipment used. The fill material shall contain sufficient moisture so that if formed into a ball it would not crumble, yet not be so wet that water can be squeezed out When required by the reviewing agency the minimum required density shall not be less than 95% of maximum dry density with a moisture content within 2% of the optimum. Each layer of fill shall be compacted as necessary to obtain that density, and is to be certified by the Engineer at the time of construction. All compaction is to be determined by AASHTO Method T-99 (Standard Proctor). <u>Cut Off Trench</u> - The cutoff trench shall be excavated into impervious material along or parallel to the centerline of the embankment as shown on the plans. The bottom width of the trench shall be governed by the equipment used for excavation, with the minimum width being four feet. The depth shall be at least four feet below existing grade or as shown on the plans. The side slopes of the trench shall be 1 to 1 or flatter. The backfill shall be compacted with construction equipment, rollers, or hand tampers to assure maximum density and minimum permeability.

Embankment Core - The core shall be parallel to the centerline of the embankment as shown on the plans. The top width of the core shall be a minimum of four feet. The height shall extend up to at least the 10-year water elevation or as shown on the plans. The side slopes shall be Is or flatter. The core shall be compacted with construction equipment, rollers, or hand tampers

to assure maximum density and minimum permeability. In addition, the core shall be placed concurrently with the outer shell of the embankment.

## Structure Backfill

Backfill adjacent to pipes or structures shall be of the type and quality conforming to that specified for the adjoining fill material. The fill shall be placed in horizontal layers not to other manually directed compaction equipment. The material needs to fill completely all spaces under and adjacent to the pipe. At no time during the backfilling operation shall driven equipment be allowed to operate closer than four feet, measured horizontally, to any part of a structure. Under no circumstances shall equipment be driven over any part of a concrete structure or pipe, unless there is a compacted fill of 24" or greater over the structure or pipe. Structure backfill may be flowable fill meeting the requirements of the Maryland Department of Transportation, State Highway Administration Standard Specifications for construction and Materials. Section 313 as modified. The mixture shall have a 100-200 psi; 28 day unconfined compressive strength. The flowable fill shall have a minimum pH of 4.0 and a minimum resistivity of 2,000 ohm-cm. Material shall be placed such that a minimum of 6"(measured perpendicular to the outside of the pipe) of flowable fill shall be under (bedding), over and, on the sides of the pipe. It only needs to extend up to the spring line for rigid conduits. Average slump of the fill shall be 7" to assure flowability of the material. Adequate measures shall be taken (sand bags, etc.) to prevent floating the pipe. When using the flowable fill, all metal pipe shall be bituminous coated. Any adjoining soil fill shall be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tampers or other manually directed compaction equipment. The material shall completely fill all voids adjacent to the flowable fill zone. At no time during the backfilling operation shall driven equipment be allowed to operate closer than four feet, measured horizontally, to any part of a structure. Under no circumstances shall equipment be driven over any part of a structure or pipe unless there is a compacted fill of 24" or greater over the structure or pipe. Backfill material outside the structural backfill (flowable fill) zone shall be of a type and quality conforming to that specified for the core of the embankment or other embankment materials.

#### Pipe Conduits

All pipes shall be circular in cross section. <u>Corrugated Metal Pipe</u> - All of the following criteria shall apply for corrugate metal pipe:

I. Materials - (Polymer Coated Steel Pipe) - Steel pipes with polymeric coatings shall have a minimum coating thickness of 0.01 inch (10 mil) on both sides of the pipe. This pipe and its appurtenances shall conform to the requirements of AASHTO Specifications M-245 & M-246 with watertight coupling bands or flanges.

Materials - (Aluminum Coated Steel Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-274 with watertight coupling bands or flanges. Aluminum Coated Steel Pipe, when used with flowable fill or when soil and/or water conditions warrant the need for increased durability, shall be fully bituminous coated per requirements of AASHTO M-190 Type A. Any aluminum coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound. Aluminum surfaces that are to be in contact with concrete shall be painted with one coat of zinc chromate primer or two coats of asphalt.

Materials - (Alumium Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-196 or M-211 with watertight coupling bands or flanges. Aluminum Pipe, when used with flowable fill or when soil and/or soil conditions warrant for increased durability, shall be fully bituminous coated per requirements of AASHTO Specification M-190 Type A. Aluminum surfaces that are to be in contact with concrete shall be painted with one coat of zinc chromate primer or two coats of asphalt. Hot dip galvanized bolts may be used for connections. The pH of the surrounding soils shall be between 4 and 9.

2. Coupling bands, anti-seep collars, end sections, etc., must be composed of the same material and coatings as the pipe. Metals must be insulated from dissimilar materials with use of rubber or plastic insulating materials at least 24 mils in thickness.

3. Connections - All connections with pipes must be completely watertight. The drain pipe or barrel connection to the riser shall be

ENGINEER'S CERTIFICATE	
" I certify that this plan for pond construction and for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.	
Signature of Engineer (print name below signature) Date DAVID T. Meru conj	THESE PLANS HAVE BEEN REVIEWED SOIL CONSERVATION DISTRICT AND TECHNICAL REQUIREMENTS FOR SM
DEVELOPER'S CERTIFICATE	CONSTRUCTION, SOIL EROSION AN
" I/We certify that all development and construction will be done according to these plans, and that any responsible personnel involved in the construction of this project will have a Certificate of Attendance at a Department of Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District." I shall engaged a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. 4/26/07 Signature of Developer (print name below signature) Date	USDA-NATURAL RESOURCES CONSERVATION SE THESE PLANS FOR SMALL POND CON SOIL EROSION AND SEDIMENT CON REQUIREMENTS OF THE HOWARD SO DISTRICT.
DEPARTMENT OF PUBLIC WORKS	PREPARED BY URRS 4 NORTH PARK DRIVE
Steve Shanan 12/14/06 CHIEF. DIVISION OF TRANSPORTATION DATE AND SPECIAL PROJECTS CHIEF. BUREAU OF HIGHWAYS DATE	HUNT VALLEY, MARYLAND TEL: (410) 785-7220

welded all around when the pipe and riser are metal. Anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight. Dimple bands are not considered to be watertight All connections shall use a rubber or neoprene gasket when joining pipe sections. The end of each pipe shall be re-rolled an adequate number of corrugations to accommodate the bandwidth. The following type connections are acceptable for pipe less than 24 inches in diameter: flanges on both ends of the pipe with a circular 3/8 inch closed cell neoprene gasket, pre-punched to the flange bolt circle, sandwiched between adjacent flanges: a 12-inch wide standard lap type band with 12-inch wide by 3/8-inch thick closed cell circular neoprene gasket; and a 12-inch wide hugger type band with o-ring gaskets having a minimum diameter of 1/2 -inch greater than the corrugation depth. Pipes 24 inches in diameter and larger shall be connected by a 24-inch long annular corrugated band using a minimum of 4 (four) rods and lugs, 2 one each connecting pipe end. A 24-inch wide by 3/8-inch closed cell circular neoprene gasket will be installed with 12 inches on the end of each pipe. Flanged joint is with 3/8 inch closed cell gaskets the full width of the flange is also acceptable. Helically corrugated pipe shall have either continuously welded seams or have lock seams with internal caulking or a neoprene bead.

4. Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil in encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.

5. Backfilling shall conform to "Structure Backfill".

6. Other details (Anti-seep collars, valves, etc.) shall be as shown on the drawings.

<u>Reinforced Concrete Pipe</u> - All of the following criteria shall apply for reinforced concrete pipe:

I. Materials-Reinforced concrete pipe shall have bell and spigot joints with rubber gaskets and shall equal or exceed ASTM C-361.

2. Bedding - Reinforced concrete pipe conduits shall be laid in concrete bedding cradle for their entire length. This bedding cradle shall consist of high slump concrete placed under the pipe and up the sides of the pipe at least 50% of its outside diameter with a minimum thickness of 6 inches. Where a concrete cradle in not needed for structural reasons, flowable fill may be used as described in the 'Structure Backfill' section of this standard. Gravel bedding is not permitted.

3. Laying pipe - Bell and spigot pipe shall be placed with the bell and end upstream. Joints shall be made in accordance with recommendations of the manufacturer of the material. After the joints are sealed for the entire line, the bedding shall the joints are sealed for the entire line, the bedding shall be placed so that all spaces under the pipe are filled. Care shall be exercised to prevent any deviation from the Care shall be exercised to prevent any deviation from the original line and grade of the pipe. The first joint must be located within 2 feet from the riser. be located within 4 feet from the riser. 4. Backfilling shall conform to 'Structure Backfill."

5. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

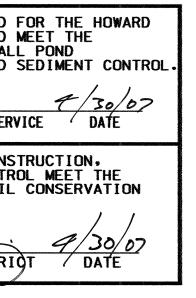
Plastic Pipe - All of the following criteria shall apply for plastic pipe: 1. Materials - PVC pipe shall be PVC-1120 or PVC-1220 conforming to ASIM D-1185 OF ASIM D-2241. COFFUGATED HIGH DENSITY POLYETHYLENE (HDPE) pipe, couplings and fittings, shall conform to the following: 4" -10" pipe shall meet the requirements of AASHTO M-252 Type S, and 12" through 24" shall meet the requirements of AASHTO M-294 Type S.

2. Joints and connections to anti-seep collars shall be completely watertight. 3. Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is

encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.

4. Backfilling shall conform to 'Structure Backfill'.

5. Other details (Anti-seep collars, valves, etc.) shall be as shown on the drawings. Drainage Diaphragms - When a drainage diaphragm is used, registered professional engineer will supervise the design and construction inspection.



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And Strang England	

DATE: 10/06	BY	NO.	REVISION	DATE	SCALE MAP NON/A
CHK: DTM					SPECIFICATION
DRN: SYC/CDF					
DES: CMC					STORMWATER N

6. FINAL NOTE: SE

<u>Concrete</u>

<u>Rock Riprap</u>

necessary to shall be pumped.

	SWM FACILITIES				
STAGE	1	ER'S/ENGINEER PROVAL	INSPECTOR'S APPROVAL		
	INITIALS	DATE	INITIALS	DATE	
.PRE-CONSTRUCTION MEETING. *	¢.				
SCE, TREE PROTECTION, AND POND EXCAVATION TO THE BOTTOM ELEVATION 231.00				ц. т	
3. INSTALLATION OF STRUCTURES AND ASSOCIATED STORM DRAINAGE: * A.FOOTING SUBGRADE PRIOR TO POURING. *					
B.FOOTING FORMED AND STEEL SET PRIOR TO POURING. *					
C.STRUCTURE SIDES FORMED AND STEEL SET PRIOR TO POURING. *					
D.PRIOR TO TOP SLAB AND MANHOLES BEING SET ON, INSPECTOR MUST INSPECT ALL CAST-IN-PLACE AND PRE-CAST STRUCTURES FOR PROPER ASSEMBLY. *					
I. SEDIMENT BASIN CONSTRUCTION:* A.INSTALLATION OF ORIFICE PLATE					
B.INSTALLATION OF DRAW-DOWN DEVICE					
5. SITE IS PERMANENTLY STABILIZED, ALL SEDIMENT AND DEBRIS REMOVED FROM THE STRUCTURE AND SEDIMENT BASIN CONVERTED INTO STORMWATER MANAGEMENT POND:* A. POND EXCAVATED TO THE BOTTOM ELEVATIONS INDICATED ON THE PLAN SHEET.					
B. ORIFICE PLATE IS REMOVED					
C. DRAW-DOWN DEVICE IS REMOVED AND UNDERDRAIN PIPE INSTALLED.					
S. FINAL INSPECTION. *					

\* MANDATORY NOTIFICATION/APPROVAL OF INSPECTOR PRIOR TO PROCEEDING WITH NEXT STAGE.

## 4035M-4 (REV 4-89)

Concrete shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 414, Mix No. 3.

Rock riprap shall meet the requirements of Marvland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 311. Geotextile shall be placed under all riprop and shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 921.09, Class C.

### Care of Water During Construction

All work on permanent structures shall be carried out in areas free from water. The Contractor shall construct and maintain all temporary and local laws concerning pollution abatement dikes, levees, cofferdams, drainage channels, and stream diversions

protect the areas to be occupied by the permanent works. The contractor shall also furnish, install, operate, and maintain all necessary pumping and other equipment required for removal of water from the various parts of the work and for maintaining the excavations, foundation, and other parts of the work free from water accordance with Local or State as required or directed by the engineer for constructing each part of the work. After having served their purpose, all temporary protective works shall be removed or leveled and graded to the extent required or prevent obstruction in any degree whatsoever of the flow of water to the spillway or outlet works and so as not to interfere in any way with the operation or maintenance of the structure. Stream diversions shall be maintained until the full flow can be passed through the permanent works. The removal of water from the required excavation and the foundation shall be accomplished in a manner and to the extent that will maintain

and will allow satisfactory performance of all construction operations. During the placing and compacting of material in required excavations, the water level at the locations being refilled shall be maintained below the bottom of the excavation at such locations which may require draining the water to sumps from which the water

### <u>Stabilization</u>

drawings.

All borrow areas shall be graded to provide proper drainage and left in a sightly condition. All exposed surfaces of the embankment, spillway, spoil and borrow areas, and berms shall be stabilized by seeding, liming, fertilizing and mulching in accordance with the Natural Resources Conservation Service Standards and Specifications for Critical Area Planting (MD-342) or as shown on the accompanying

### Erosion and Sediment Control

Construction operations will be carried out in such a manner that erosion will be controlled and water and air pollution minimized. State will be followed. Construction plans shall detail erosion and sediment control measures.

## OPERATION AND MAINTENANCE

An operation and maintenance plan in Regulations will be prepared for all ponds. As a minimum, the dam inspection checklist located in Appendix A shall be included as part of the operation and maintenance plan and performed at least annually. Written records of maintenance and major repairs needs to be retained in a file. The issuance of a Maintenance and Repair Permit for any repairs or maintenance that involves the stability of the excavated slopes and bottom of required excavations modification of the dam or spillway from its original design and specifications is required. A permit is also required for any repairs or reconstruction that involve a substantial portion of the structure. All indicated repairs are to be made as soon as practical.

MANAGEMENT NS (MD 378)

DORSEY RUN INDUSTRIAL CENTER ELECTION DISTRICT NO. 1 - JESSUP, MARYLAND

DORSEY RUN ROAD EXTENSION

CAPITAL PROJECT J-4148-C

MD 175 TO

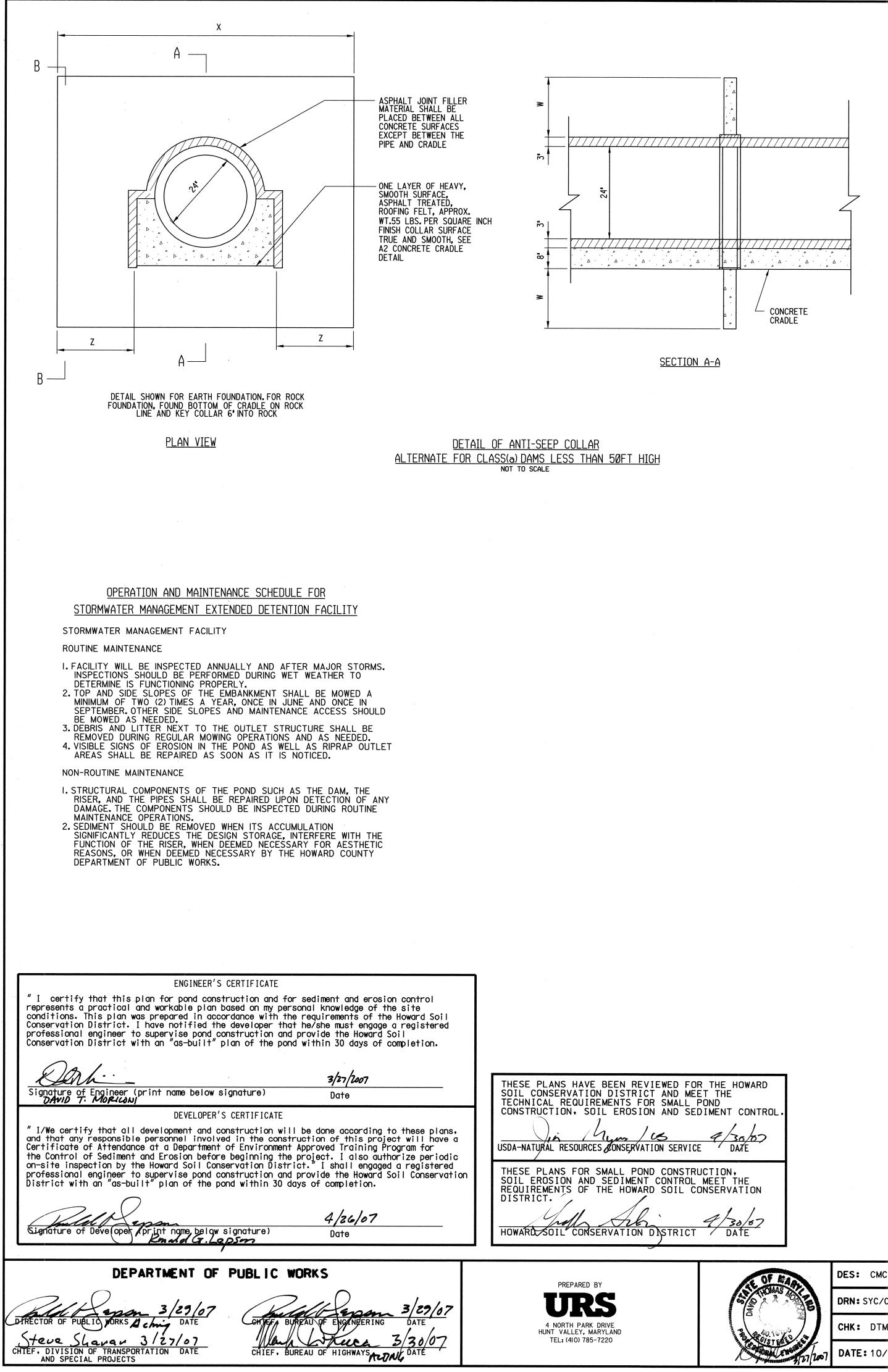
SCALE N.T.S. SHEET

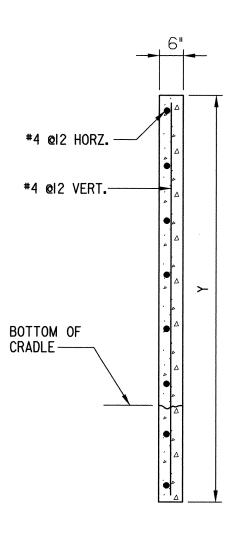
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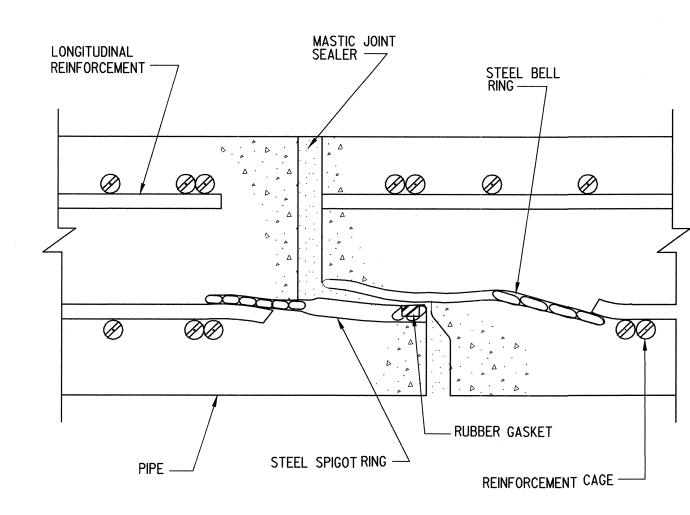
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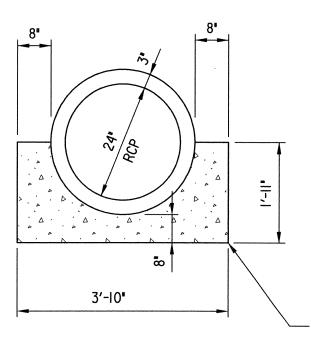
ANTI-SEEP COLLAR DIMENSIONS (FT.)								
POND DESIGNATION	W	х	Y	Z				
Α	-	-	-	-				
В	3.5′	10.9'	10.2'	3.5′				
С	3.6′	. '	10.4′	3.6′				
D	3.3'	10 <b>.</b> 5′	9.8′	3.3′				
E	3.0′	9.9′	9.2′	3.0'				

SECTION B-B (SHOWING STEEL)



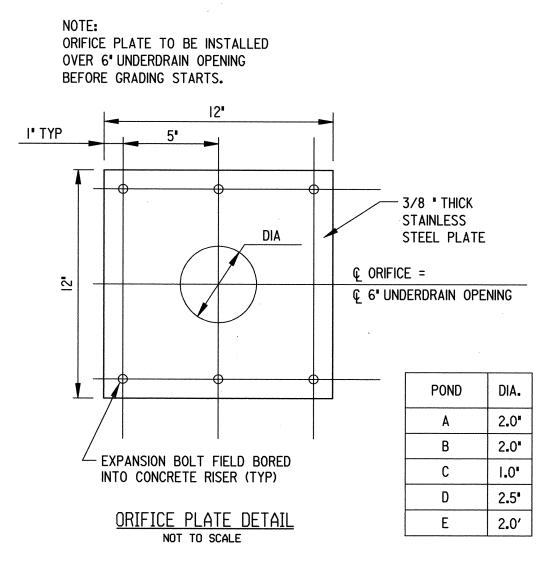
ASTM DESIGNATION C361 NOT TO SCALE

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	DRN: SYC/CDF					STORMWATER M
31	CHK: DTM					MISCELLANEOUS
101/207	DATE: 10/06	BY	NO.	REVISION	DATE	SCALE MAP NO. N/A

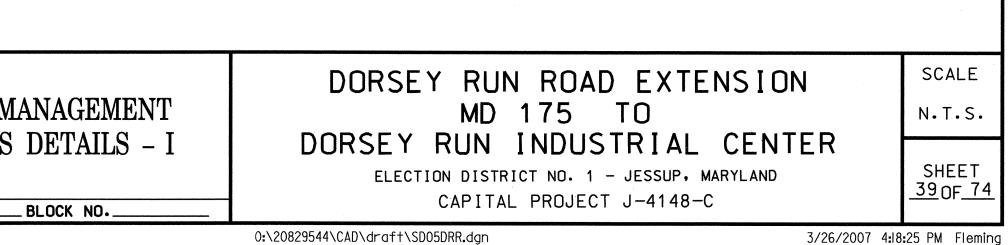


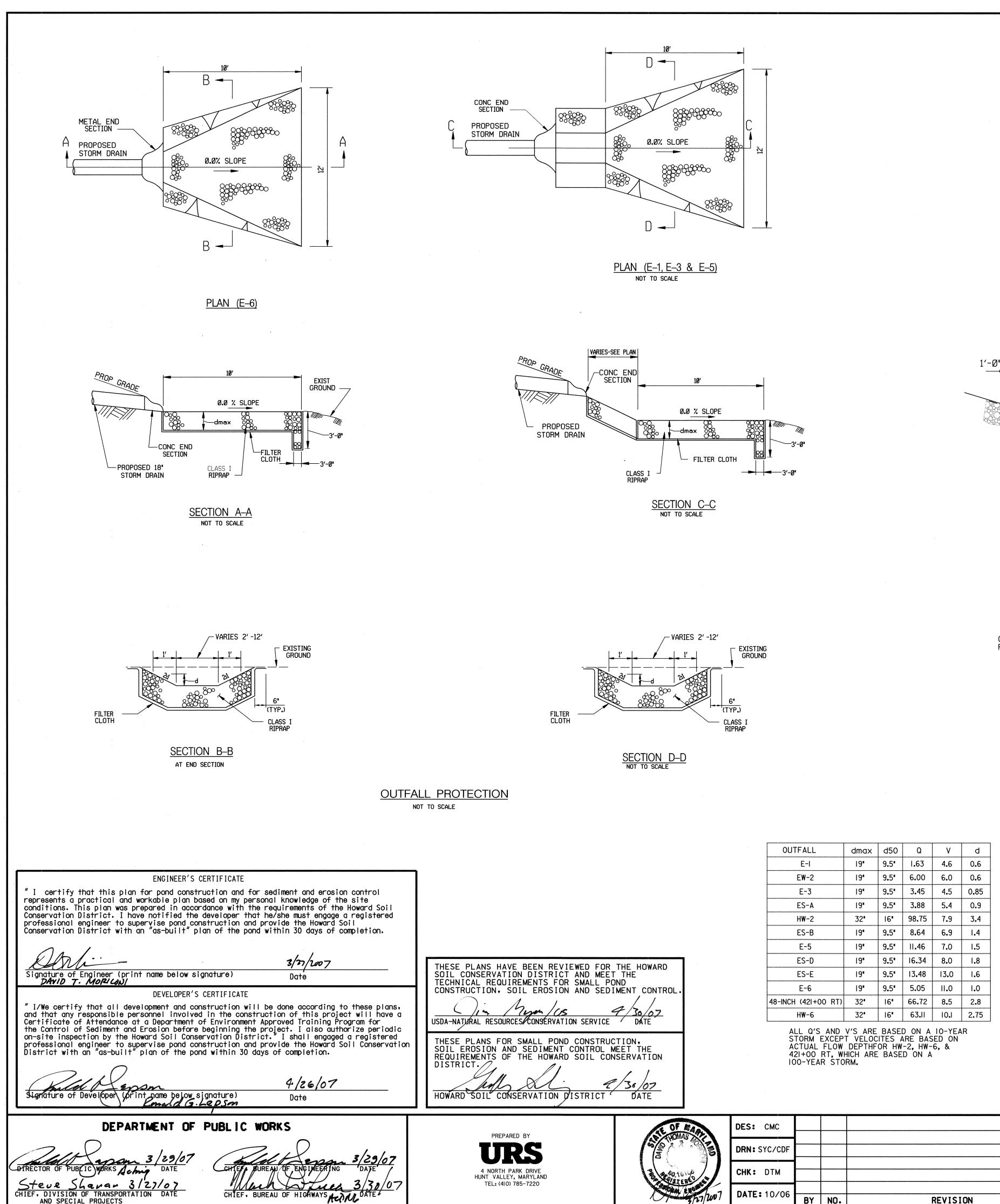
-CONCRETE BEDDING

SCS TR-46 A2 CONCRETE CRADLE DETAIL NOT TO SCALE

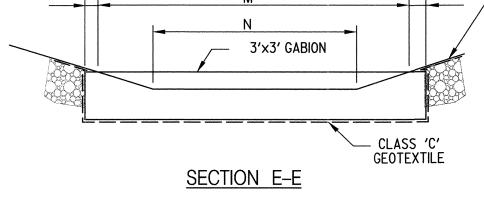


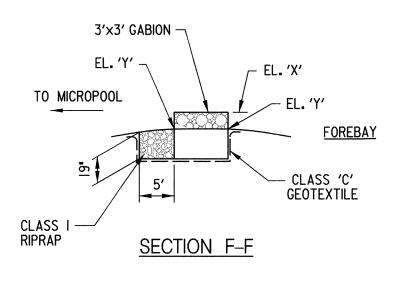
NOTE: PLATE SHATT BE USED FOR STORMWATER MANAGEMENT AND EROSION/ SEDIMENT CONTROL PURPOSES.





AND SPECIAL PROJECTS





ED FOR THE HOWARD ND MEET THE MALL POND ND SEDIMENT CONTROL.	
SERVICE DATE DNSTRUCTION, NTROL MEET THE DIL CONSERVATION	
- [ ]	

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	CHK: DTM					MI
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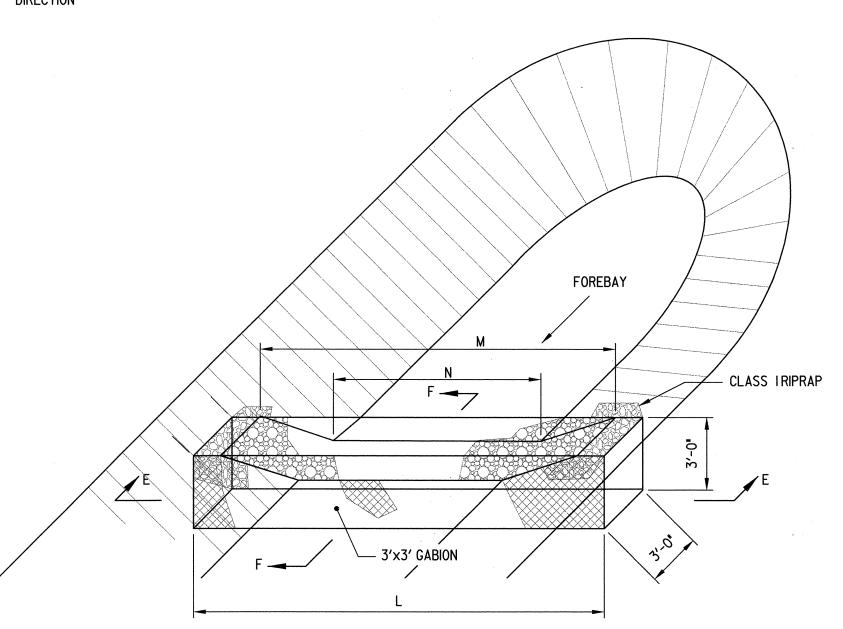
# STORMWATER MANAGEMENT IISCELLANEOUS DETAILS – II

## SCALE MAP NO. N/A BLOCK NO.

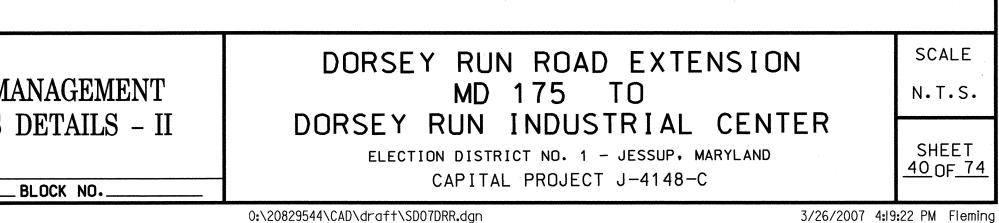
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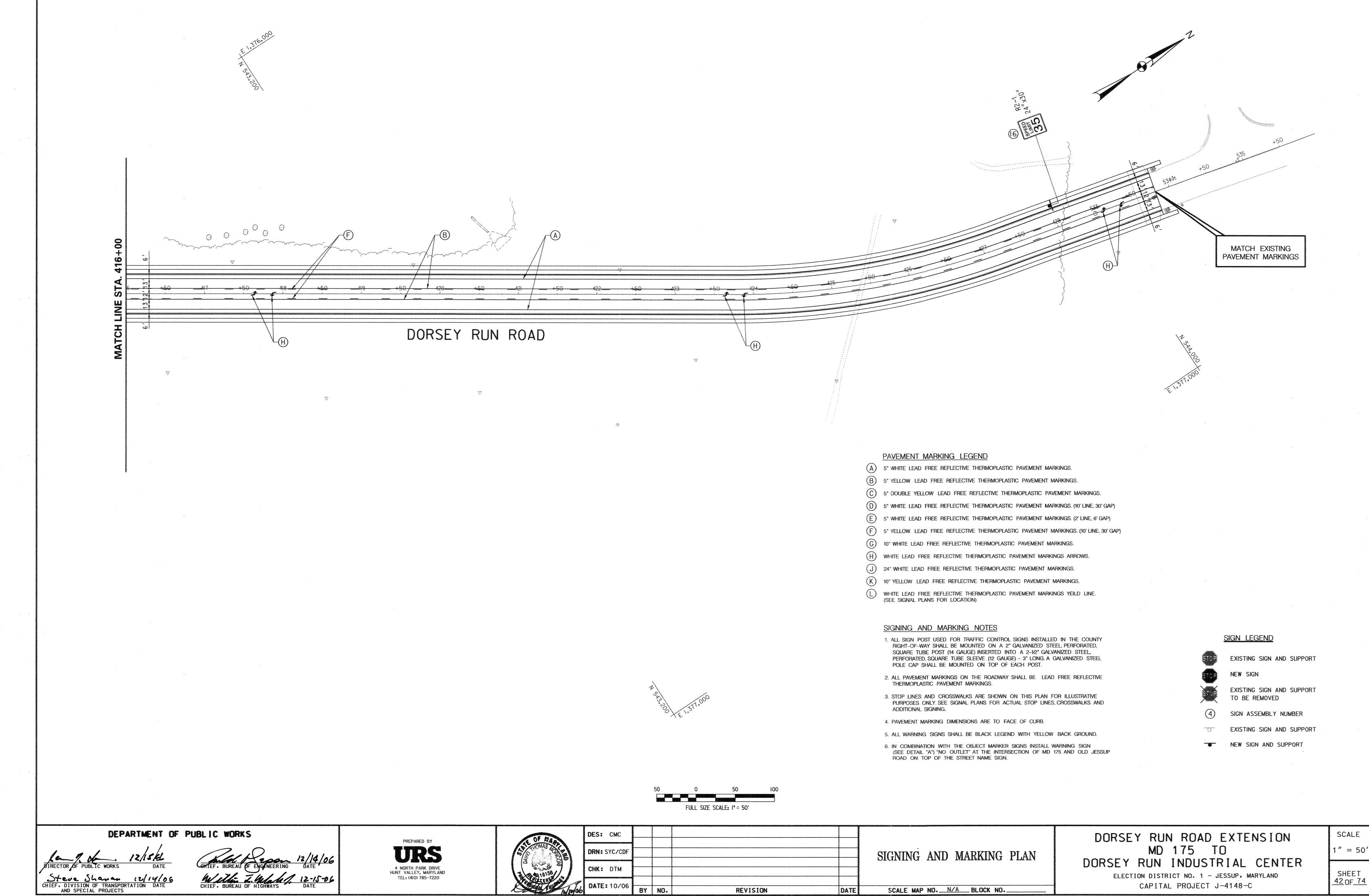
GAB	ION BA	SKET V	VEIR D	ΔΤΑ		
POND DESIGNATION	L	М	N	Х	Y	REMARKS
٨	48′	46′	40′	197.5	197 <b>.</b> 0	TANGENT
Α	1081	106′	100'	193.5	193.0	CURVED
В	84'	82'	76′	195.0	194.0	90° BEND
С	69'	67′	617	213.0	212.0	CURVED
D	112'	110'	106'	207.0	206.0	CURVED
E	88′	86′	82′	211.0	210.0	CURVED

### - CLASS I RIPRAP TO ELEVATION OF GABION & I'-O' BEYOND IN EACH DIRECTION



GABION BASKET WEIR





	PAVEMENT MARKING LE
A	5" WHITE LEAD FREE REFLECTIV
B	5" YELLOW LEAD FREE REFLEC
C	5" DOUBLE YELLOW LEAD FREE
D	5" WHITE LEAD FREE REFLECTIV
Ê)	5" WHITE LEAD FREE REFLECTIV
Ð	5" YELLOW LEAD FREE REFLEC
G	10" WHITE LEAD FREE REFLECTIV
Ð	WHITE LEAD FREE REFLECTIVE
J	24" WHITE LEAD FREE REFLECTI
R	10" YELLOW LEAD FREE REFLEC
D	WHITE LEAD FREE REFLECTIVE (SEE SIGNAL PLANS FOR LOCAT

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<u> </u>	DATE: 10/0	06	BY	NO.	REVISION	DATE	SCALE MAP NON/A
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	DRN: SYC/C	DF					SIGNING AND M
		[					
	DES: CMC						

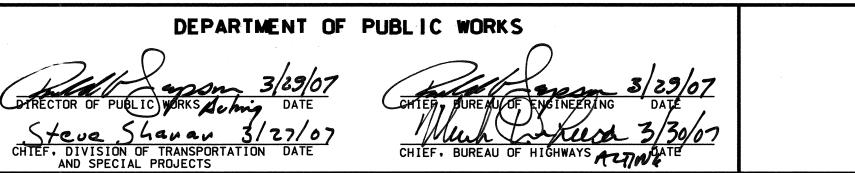
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<b>OP</b>	NEW SIGN
Ŕ	EXISTING SIGN AND S TO BE REMOVED
4)	SIGN ASSEMBLY NUM
5	EXISTING SIGN AND

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SIGN	REMARKS			T -	T	- <u>-</u>		<u> </u>		C	ODE NUMBERS	*	·- ·-	1		·		·		
NO.				2	3	4	5	6	7 8	9	10		12	13	14	15	16	17	18	19
1	R1-2 (36"×36"×36")	1-STEEL TUBE SUPPORT	3.9	15.1																
2	W11-2 (30"×30"); M6-2 (21"×15")	1-STEEL TUBE SUPPORT	8.4		16.5															
3	W11-2 (30"×30"); M6-2 (21"×15")	1-STEEL TUBE SUPPORT	8.4		16.5															
4	$W2-2 (30'' \times 30''); D-3(2) (72'' \times 12'')$	1-STEEL TUBE SUPPORT	12.3		17.0															
5	OM4-3 (18"×18"); OM4-2 (18"×18"); OM4-3 (18"×18")	2-STEEL TUBE SUPPORT	6.8	24.0																
<u>ь</u> 7	$W9-1(R) (30'' \times 30'')$	1-STEEL TUBE SUPPORT	6.3		16.0															
	$M4-5 (30'' \times 15''); M1-4 (36'' \times 36'')$	2-STEEL TUBE SUPPORT	34.3		39.1	-												· · ·		
	$M5-1  (30'' \times 24'');  M4-5  (30'' \times 15'')$																			
8	M1-4 (36"×36"); M5-1 (30"×24") D-3 (72"×12"); D-3 (60"×12"); R1-1 (30"×30");	1-STEEL TUBE SUPPORT	18.3		17.0															
	M4-12(MOD) (24"×6")	I-SIEL IUDE SUFFURI	10.5		17.0							······								
9	W4-2(R) (36"×36")	1-STEEL TUBE SUPPORT	9.0	16.5														,	· · ·	
10	W9-2(L) 48"×48")	1-STEEL TUBE SUPPORT	16.0	10.5	16.0															
11		1-STEEL TUBE SUPPORT	5.0	15.0	10.0										-					
12		1-STEEL TUBE SUPPORT	15.0		15.0															
13		1-STEEL TUBE SUPPORT	12.3		17.0															
14		1-STEEL TUBE SUPPORT	7.0		15.5															
	M4-12 (24"x6"); R3-9b (24"x36")	1-STEEL TUBE SUPPORT			15.5															
16	R2-1 (24"x30")	1-STEEL TUBE SUPPORT	5.0	15.0																
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	PAVEMENT MARKING QUANTITIES																· · · · ·			
	STA. 401+88 TO 416+00					1,225	1,000	1,910	142 367	335	591	6		75	21	4				
	STA. 300+73 TO 305+23					930		930					25							
	STA. 416+00 TO 533+81					2,660	2,660			887		6								
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		TOTAL	1 / 5 . 0	85.6	201.1	4,815	3,660	2,840	142 367	1,222	591	12	25	75	21	4		,		

	* CODE NUMBER DESCRIPTION & UNIT
CODE NUMBERS	DESCRIPTION
I	SHEET ALUMINUM SIGN
2	2" SQUARE STEEL TUBE SIGN SUPPORT
3	2 1/2" SQUARE STEEL TUBE SIGN SUPPORT
4	5" WHITE LEAD FREE REFLECTIVE PAVEMENT MARKINGS
5	5" YELLOW LEAD FREE REFLECTIVE PAVEMENT MARKINGS
6	5" DOUBLE YELLOW LEAD FREE REFLECTIVE PAVEMENT MARKINGS
7	5" WHITE LEAD FREE REFLECTIVE PAVEMENT MARKINGS (10' LINE, 30' GAP)
8	5" WHITE LEAD FREE REFLECTIVE PAVEMENT MARKINGS (2' LINE, 6' GAP)
9	5" YELLOW LEAD FREE REFLECTIVE PAVEMENT MARKINGS (10' LINE, 30' GAP)
10	10" WHITE LEAD FREE REFLECTIVE PAVEMENT MARKINGS



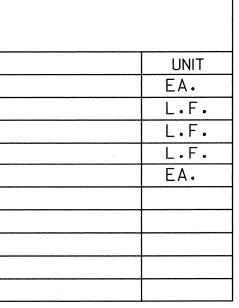


UNIT
S.F.
L.F.

	* CODE NUMBER DESCRIPTION & UNIT								
CODE NUMBERS	DESCRIPTION								
	WHITE LEAD FREE REFLECTIVE PAVEMENT MARKING ARROWS								
12	24" WHITE LEAD FREE REFLECTIVE PAVEMENT MARKINGS								
13	10" YELLOW LEAD FREE REFLECTIVE PAVEMENT MARKINGS								
14	WHITE LEAD FREE REFLECTIVE PAVEMENT MARKING YIELD LINE								
15	WHITE LEAD FREE REFLECTIVE PAVEMENT MARKING LETTERS								
•									

SE OF MAG	DES:	K
	DRN:	ME
<b>1 4 4 0</b> 1611 <b>/</b>	CHK:	D
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DATE: 10/06	BY	NO.	REVISION	DATE	SCALE MAP NON/ABLOCK NO
n					
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5					SUMMARY TABLE
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					GIONING AND MADZIN
DES: KJS					

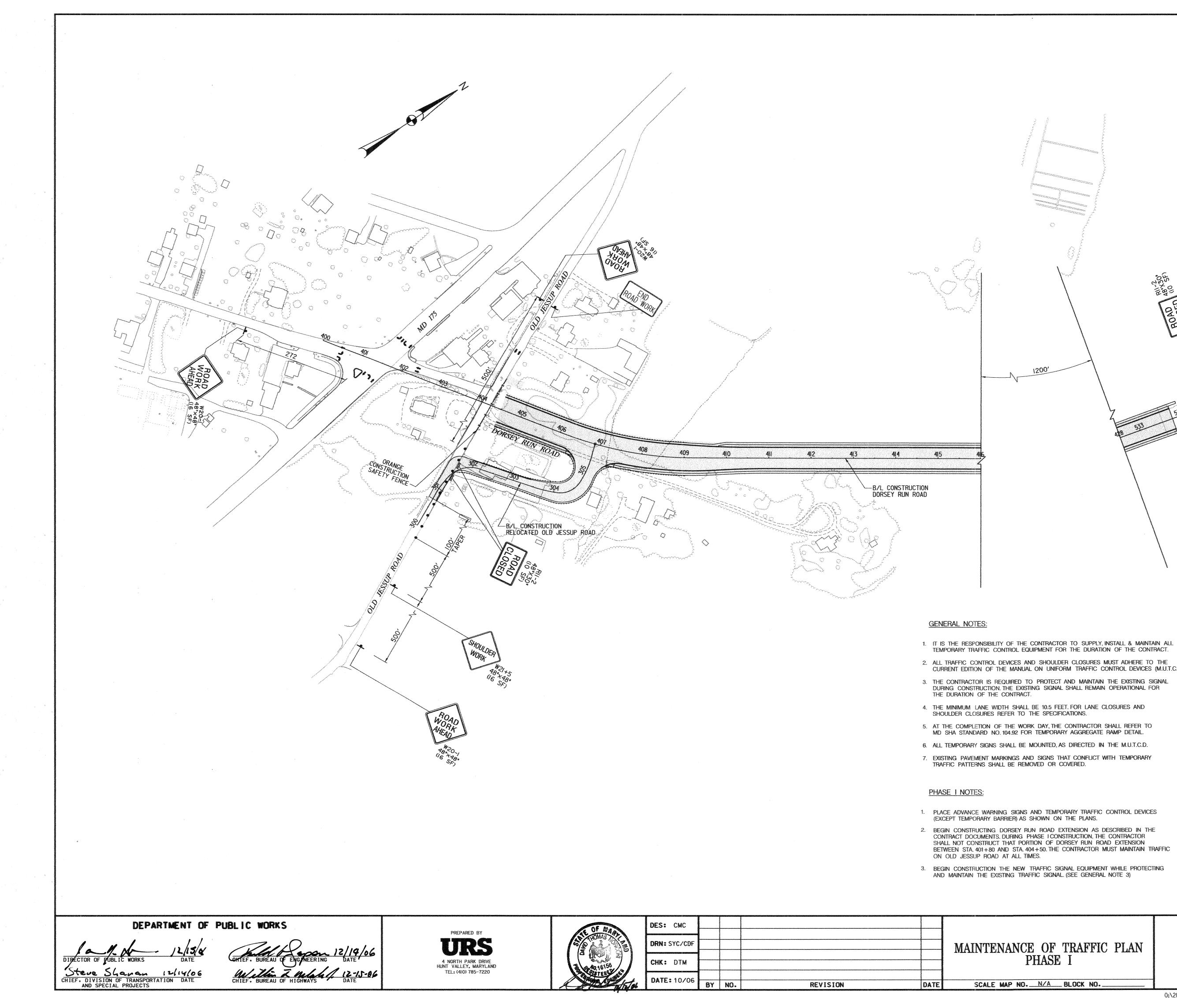


MARKING TABLE

DORSEY RUN ROAD EXTENSION MD 175 TO DORSEY RUN INDUSTRIAL CENTER SCALE 1'' = 50'SHEET \_<u>43</u> 0F\_74 ELECTION DISTRICT NO. 1 - JESSUP, MARYLAND CAPITAL PROJECT J-4148-C

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								SCALE: 1° = 100'	
E OF MARY		DES: CMC						DORSEY RUN ROAD EXTENSION MD 175 TO	S AS
40,16156	5	DRN: SYC/CDF CHK: DTM					MAINTENANCE OF TRAFFIC PLAN PHASE I	DORSEY RUN INDUSTRIAL CENTER ELECTION DISTRICT NO. 1 - JESSUP, MARYLAND	S
STER STER	tos	DATE: 10/06	BY	NO.	REVISION	DATE	SCALE MAP NO. N/A BLOCK NO.	CAPITAL PROJECT J-4148-C	44

CALE SHOWN SHEET 4 OF 74

CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.)

DORSEY RUN ROAD

RI1-201 48.4301

<u>LEGEND</u>

TEMPORARY TRAFFIC BARRIER WORK ZONE CHANNELIZING BARRELS

TEMPORARY SIGN & SUPPORT

DIRECTION OF TRAVEL

TEMPORARY PAVEMENT MARKING PAINT WHITE TEMPORARY PAVEMENT MARKING PAINT DOUBLE YELLOW

40 MPH TEMPORARY CRASH CUSHION

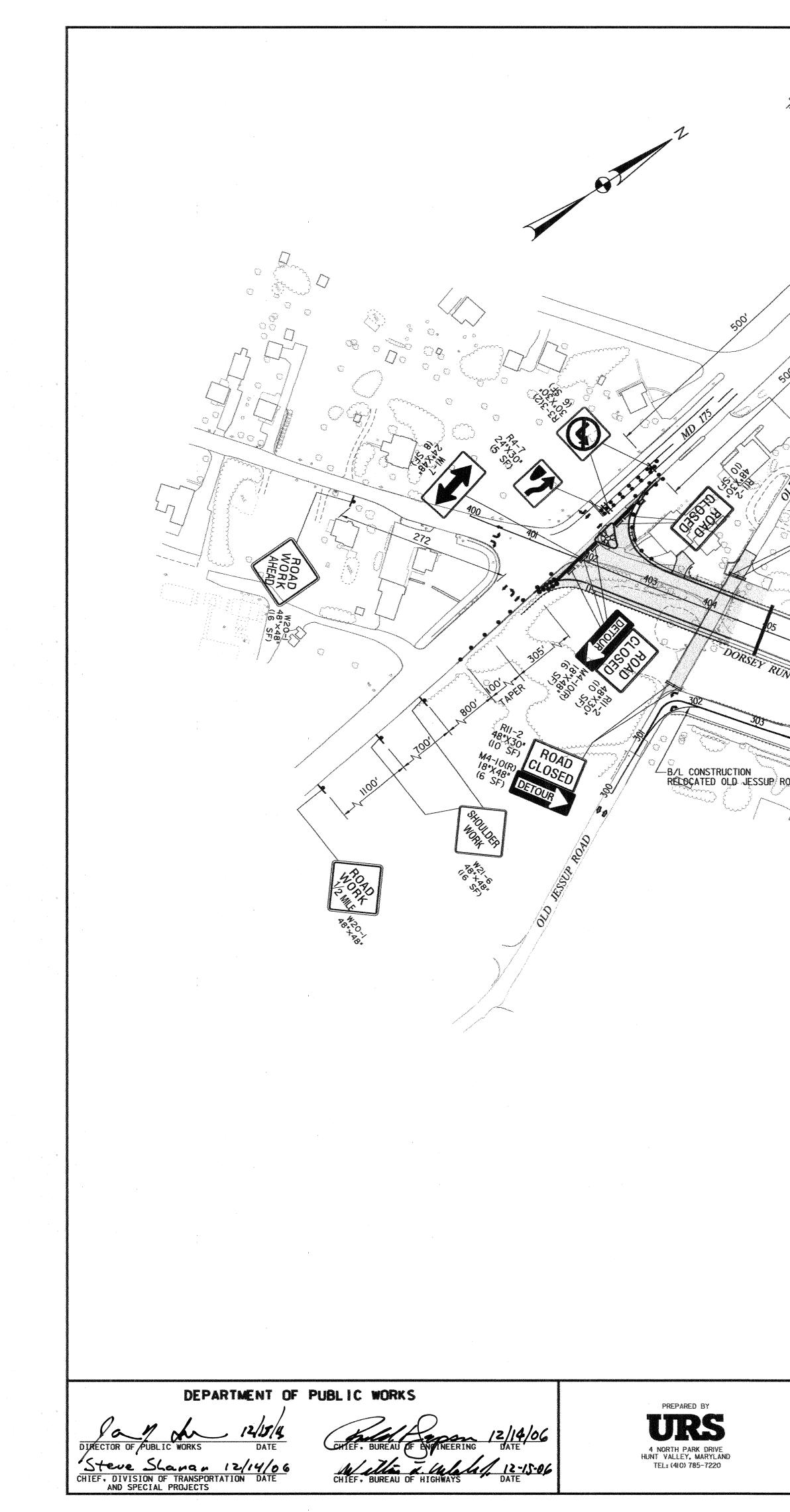
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9 406 9 40 9 40 9 40 9 40 9 40 9 40 9 40 9 40		SEE NOTE	8	1200'
ROAD 304 DAD DAD	409 <u>40</u> <u>41</u> 5' TW		414 415	
SEE NOTE 8				

### PHASE II NOTES:

- PRIOR TO COMMENCING, PHASE II CONSTRUCTION, PHASE I CONSTRUCTION MUST BE COMPLETED.
- 2. BEGIN SHIFTING OLD JESSUP ROAD NORTHBOUND TRAFFIC NEW RELOCATED OLD JESSUP ROAD
- 3. PLACE ADVANCE WARNING SIGNS AND TEMPORARY TRAFF
- DEVICES AS SHOWN ON THE PLANS.
- 4. CONSTRUCT THE REMAINING PORTION OF DORSEY RUN R STA. 401+80 AND 405+00.
- 5. BEGIN CONSTRUCTION AND REMOVAL OF OLD JESSUP RO ON THE PLANS.
- 6. AT THE COMPLETION OF PHASE II CONSTRUCTION OPEN DORSEY RUN ROAD EXTENDED TO TRAFFIC.
- 7. REFER TO SHEET 43 FOR DETOUR PLAN. 8. REFER SHEET 39 FOR PERMANENT PAVEMNET MARKINGS.

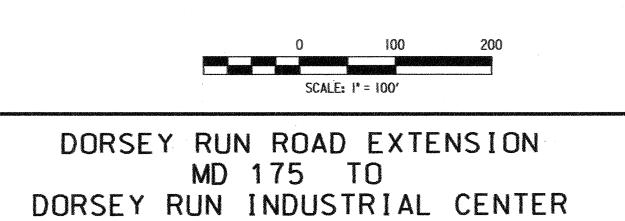
AN CHOMAS	DRN: SYC/CDF	L				MAINTENANCE OF TRAFFIC
66636	CHK: DTM					PHASE II
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A Self see star	DATE: 10/06					
AST AND		BY	NO.	REVISION	DATE	SCALE MAP NO. N/A BLOCK NO.

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<u>LEGEND</u>

		TEMPORARY TRAFFIC BARRIER
FIC TO THE		WORK ZONE
	\$	CHANNELIZING BARRELS
FIC CONTROL	<b></b>	TEMPORARY SIGN & SUPPORT
	-dan	DIRECTION OF TRAVEL
ROAD, BETWEEN	5" TW	TEMPORARY PAVEMENT MARKING
	5* TDY	TEMPORARY PAVEMENT MARKING
ROAD AS SHOWN	00 <u>666</u>	40 MPH TEMPORARY CRASH CU

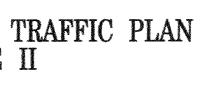
CHANNELIZING BARRELS ۹ TEMPORARY SIGN & SUPPORT ...... DIRECTION OF TRAVEL -4900 TEMPORARY PAVEMENT MARKING PAINT WHITE 5" T₩ TEMPORARY PAVEMENT MARKING PAINT DOUBLE YELLOW 5" TDY 00000 40 MPH TEMPORARY CRASH CUSHION



ELECTION DISTRICT NO. 1 - JESSUP, MARYLAND

CAPITAL PROJECT J-4148-C

DORSEY RUN ROAD



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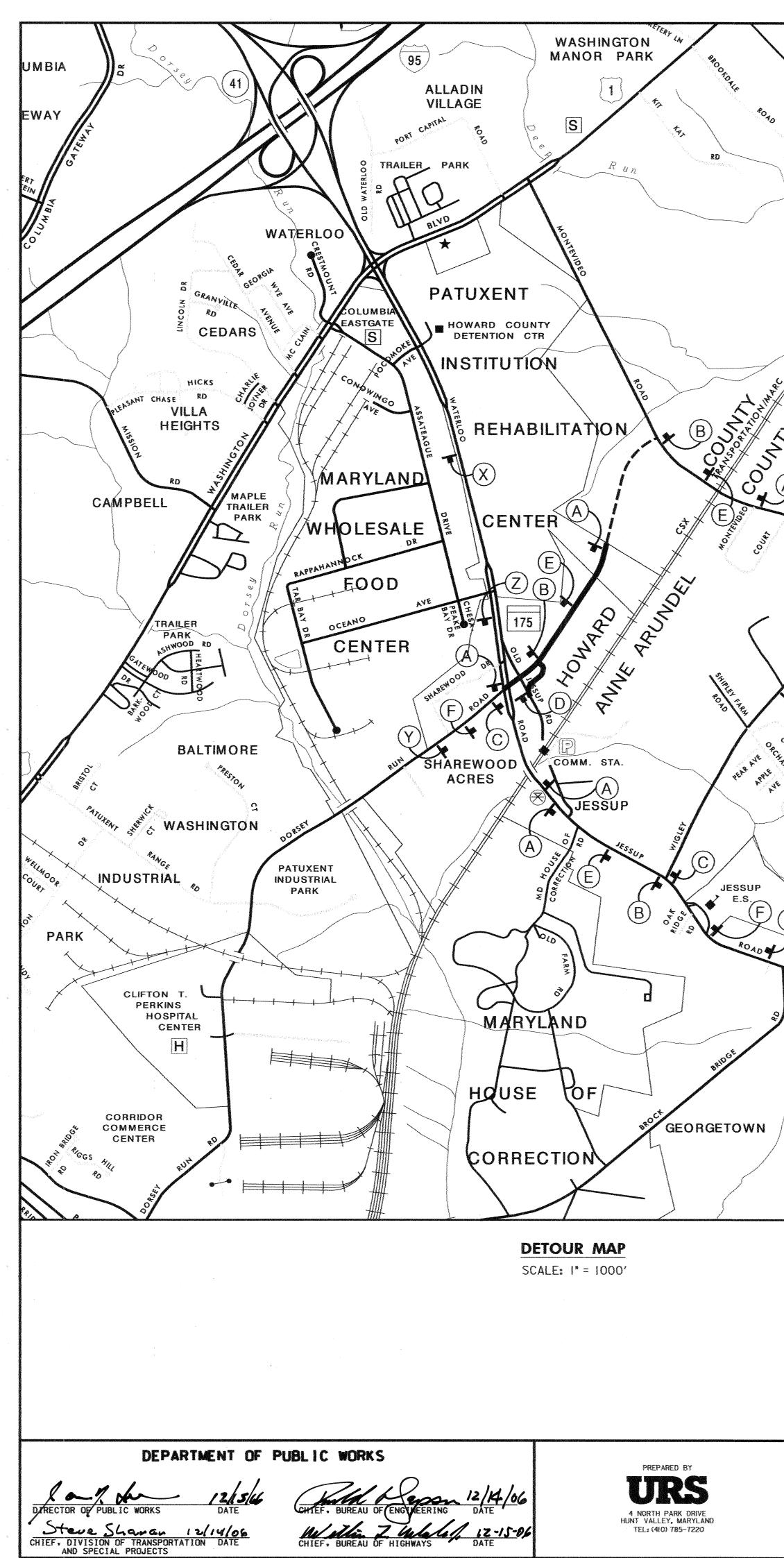
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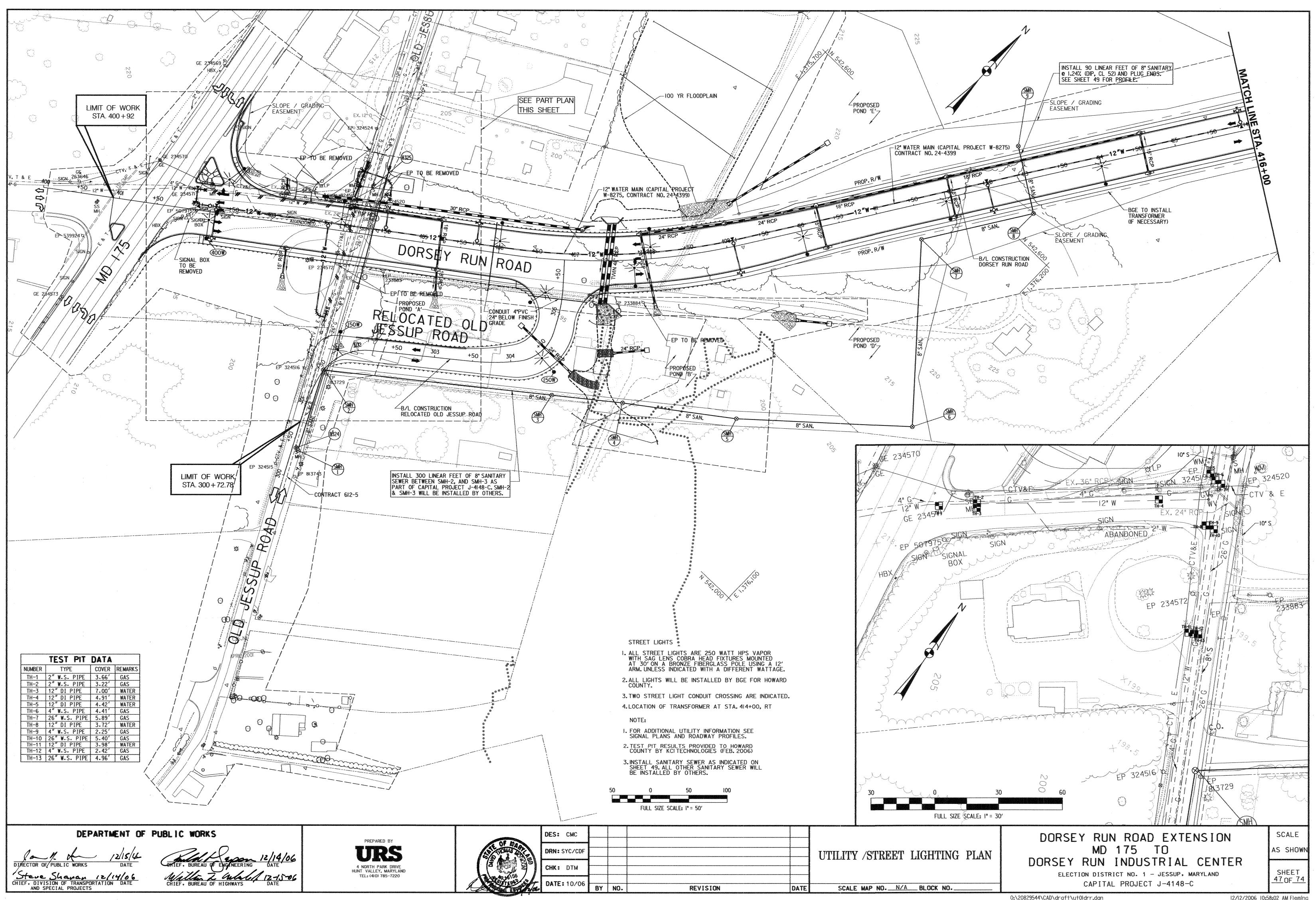


DORSEY DOS DORSEY DOS DORSEY DOS DORSEY DOS DOS DOS DOS DOS DOS DOS DOS DOS DOS		APPRIME STELLES OFFICE OF THE OF THE SECOND STELLES STANDARDS FOR TELESSO THE SECOND STELLES THE SECOND THE SECOND STELLES THE SECOND THE SECOND STELLES THE SECOND THE SECOND STELLES THE SECOND THE SECOND STELLES THE SECON	Therefore and the second structures and properties than 40 MPH	500'	AND PLACEMENT GUR APPROACHES IDDOO'NCE AND PLACEMENT GUR APPROACHES IDDOO'NCE IDDO
A A A A A A A A A A A A A A A A A A A	5" LETTERS D-3(2) D-3(2) 30"x9" BLKWHT MOUNT ON TOP OF EVERY M4-8a AND M4-9 DETOUR SIGN AS DIRECTED BY THE ENGINEER M4- 30"x2 ()	9 M4-9 M4-9 M4-8a	DETOUR   M4-9   30°x24"     M4-9   30°x24"     M4-9   30°x24"		
YMCA 20794 2	OLD JESSUP ROAD DORSEY RUN ROAD CLO SED       7" LETT 6" LETT 8" LETT 6" LETT         MAX. WIDTH 72"       6" LETT         MAX. WIDTH 72"       Image: Constant of the second secon	ERS (BK/YELLOW) ERS (BK/WHITE) ERS (BK/WHITE) ERS (BK/WHITE) ERS (BK/WHITE) ERS (BK/WHITE) ERS (BK/WHITE) ALLED WITH TCP ON SHEET 42. ER (410–313–5752) PRIOR TO FABRICATING SIGNS. LL BE APPROVED BY THE TRAFFIC DIVISION PRIO SIGNS. BE COVERED WITH OPAQUE MATERIAL UNTIL D/	FOR MAINT I. TRAFFIC COM ON THE PLA 2. INSTALL DET	8" LETTERS (BK/ 7" LETTERS (BK	vhite) vhite) vhite) <u>vities</u>
DES: CMC DRN: SYC/CDF CHK: DTM DATE: 10/06 BY NO.		NTENANCE OF TRAFFIC DETOUR PLAN FOR PHASE II E MAP NON/ABLOCK NO	DORSEY R	RUN ROAD EXTENSION MD 175 TO RUN INDUSTRIAL CENTER N DISTRICT NO. 1 - JESSUP, MARYLAND CAPITAL PROJECT J-4148-C	SCALE SHEET <u>46 OF 74</u>

LENNOX PARK PARK FILL CONT PARK FILL CONT FILL CONT	NOTESS SHOULDER CLOSED SIGNS ARE REQUIRED IN PLACE OF SHOULDER ROKK SIGNS WHEN THE SHOULDER IS CLOSED BY A PHYSICAL BARNEER REFER TO STANDARD NO. MD 104.06-14. WHEN WORK INVOLVES A PAVEMENT EDGE DROP-OFF, REFER TO STANDARD NOS. MD 104.06-11 TO MD 104.06-15. KEY: CHANNELIZING DEVICES SION SUPPORT FACE OF SIGN DIRECTION OF TRAFFIC WORK SITE	Reitz HRS. ACATIONSD K WITHIN IS ST. SDGE LINE N K WITHIN IS ST. SDGE LINE N K WITHIN IS ST. SDGE LINE N KEY: N KEY: N CHANNELIZING DEVICE SIGN SUPPORT SIGN SUPPORT SIGN SUPPORT DIRECTION OF TRAFFI DIRECTION OF TRAFFI N N N N N N N N N N N N N	s <b>States</b>	Image: State of the state	SOUTHONAL FOR SOUTHONAL FOR SOUTHO	COPTIONAL FOR IS MIN-12 HIRS. OR DAYTHME APPLICATIONSI IS MIN-12 HIRS. ON DAYTHME LISE ONLY ONE LANE ROAD ISO FT
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A second and the seco	ANTON 8-26-03 APRIX 9-23-03 EQU/LES State Hymnon Marketo Reado R	S THAN 40 MPH MD 104.02-02	PRENA 9-23-43 EQUAES	S THAN 40 MPH MD 104.02-10	#REDAL 9-33-43     2-LANE,2-WAY EQULESS THAT       #ASSO     #RASSO       #RASSO     #RASSO       #RASSO     STANDARD NO.       #RASSO     MD	N 40 MPH
B JESSUP ONTEVIDEO NO B JESSUP PARK TO PARK PARK PARK PARK	5" LETTERS OLD JESSUP D-3(2) 30"X9" BLKA MOUNT ON TH EVERY M4-8a AN DETOUR SIGN DIRECTED BY THE	VHT DETOUR ID ASSUPED DETOUR ID M4-9 I AS ENGINEER M4-9 M4-9	END DETOUR M4-9 M4-8a	QLD JESSUP RDDETOURM4-9 $30^{\circ}x24^{\circ}$ $E$ $E$		
e view vie	NOT OLD JESS DORSEY RU CLOS DETOUR MAX. WID	P ROAD7" LETTERS (BK/WHITE)IN ROAD6" LETTERS (BK/WHITE)ED8" LETTERS (BK/WHITE)AHEAD6" LETTERS (BK/WHITE)	NOTICE DORSEY RUN ROAD & OLD JESSUP ROAD CLO SED DETOUR AHEAD MAX. WIDTH 72"	7" LETTERS (BK/WHITE) 6" LETTERS (BK/WHITE) 8" LETTERS (BK/WHITE) 6" LETTERS (BK/WHITE)	NOTICE TRAFFIC ONLY N OLD JESSUP DAD WIDTH 72" (WIDTH 72" (Description of the second state of the se	
TO XYW	2. CON 3. ALL TO 4. ALL ROA 5. ALL	PLAN SHALL BE INSTALLED WITH TCP ON S ITACT TRAFFIC ENGINEER (410-313-5752) PRIOR SIGN LOCATIONS SHALL BE APPROVED BY TH INSTALLATION OF ANY SIGNS. DETOUR SIGNS SHALL BE COVERED WITH OP D IS CLOSED. SIGN LOCATIONS SHOWN ON THE PLAN ARE ATIONS TO BE DETERMINED IN THE FIELD.	TO FABRICATING SIGNS. IE TRAFFIC DIVISION PRIOR PAQUE MATERIAL UNTIL DAY	FOR MAINTENANCE OF I. TRAFFIC CONTROL DEVICES SH ON THE PLANS FOR THIS PHA 2. INSTALL DETOUR PER THIS PL	ASE.	<u>S</u>
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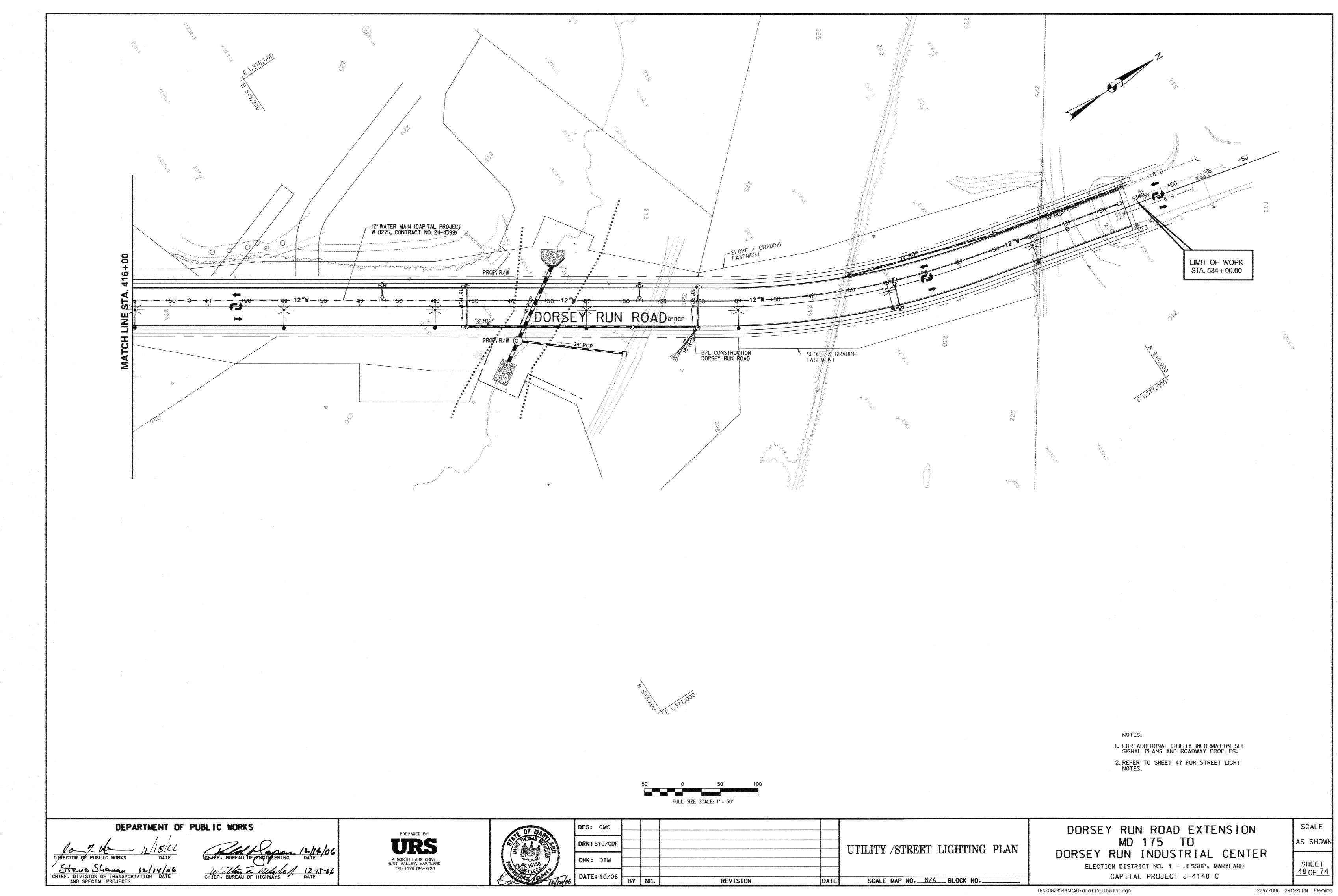
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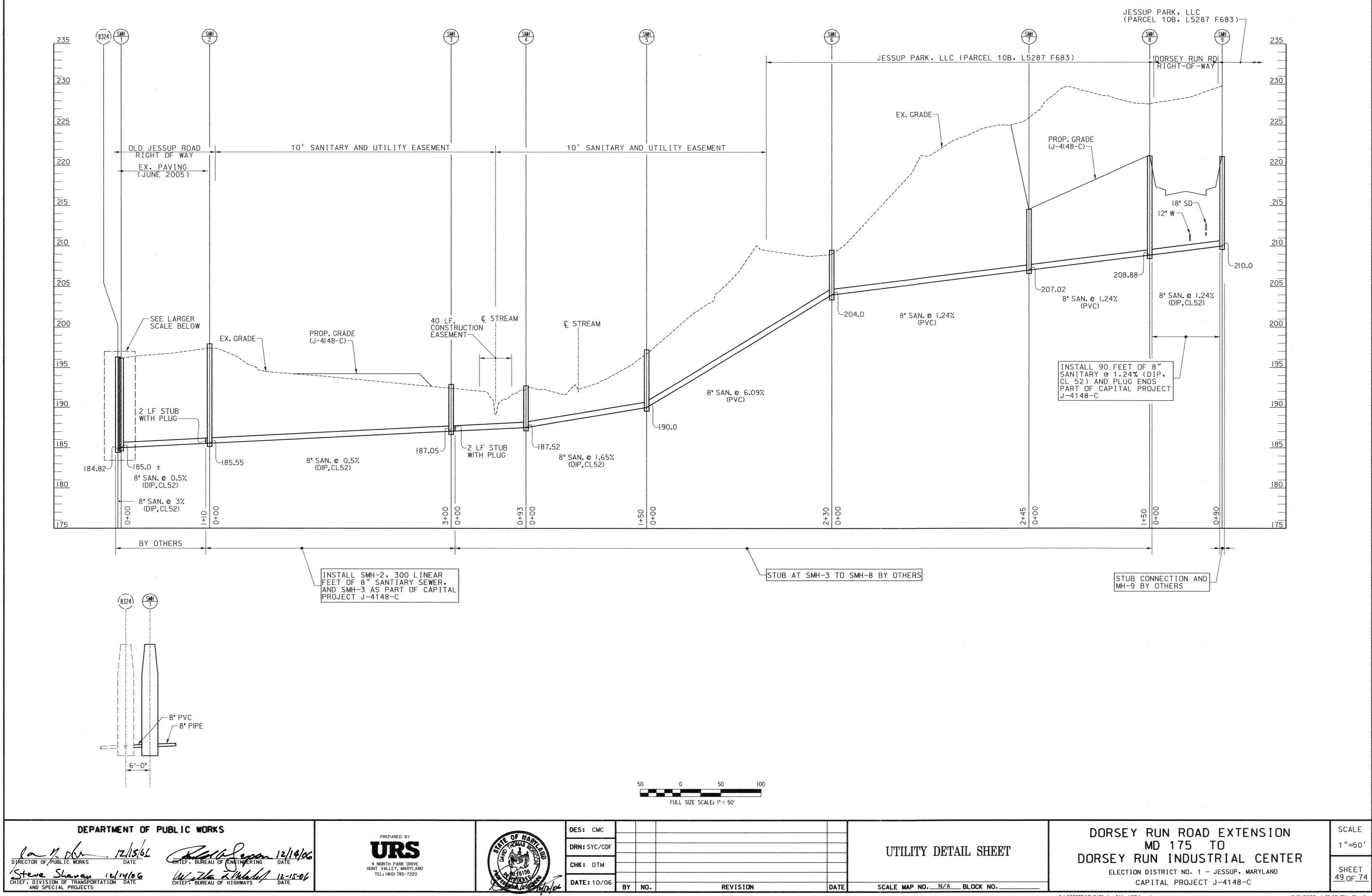
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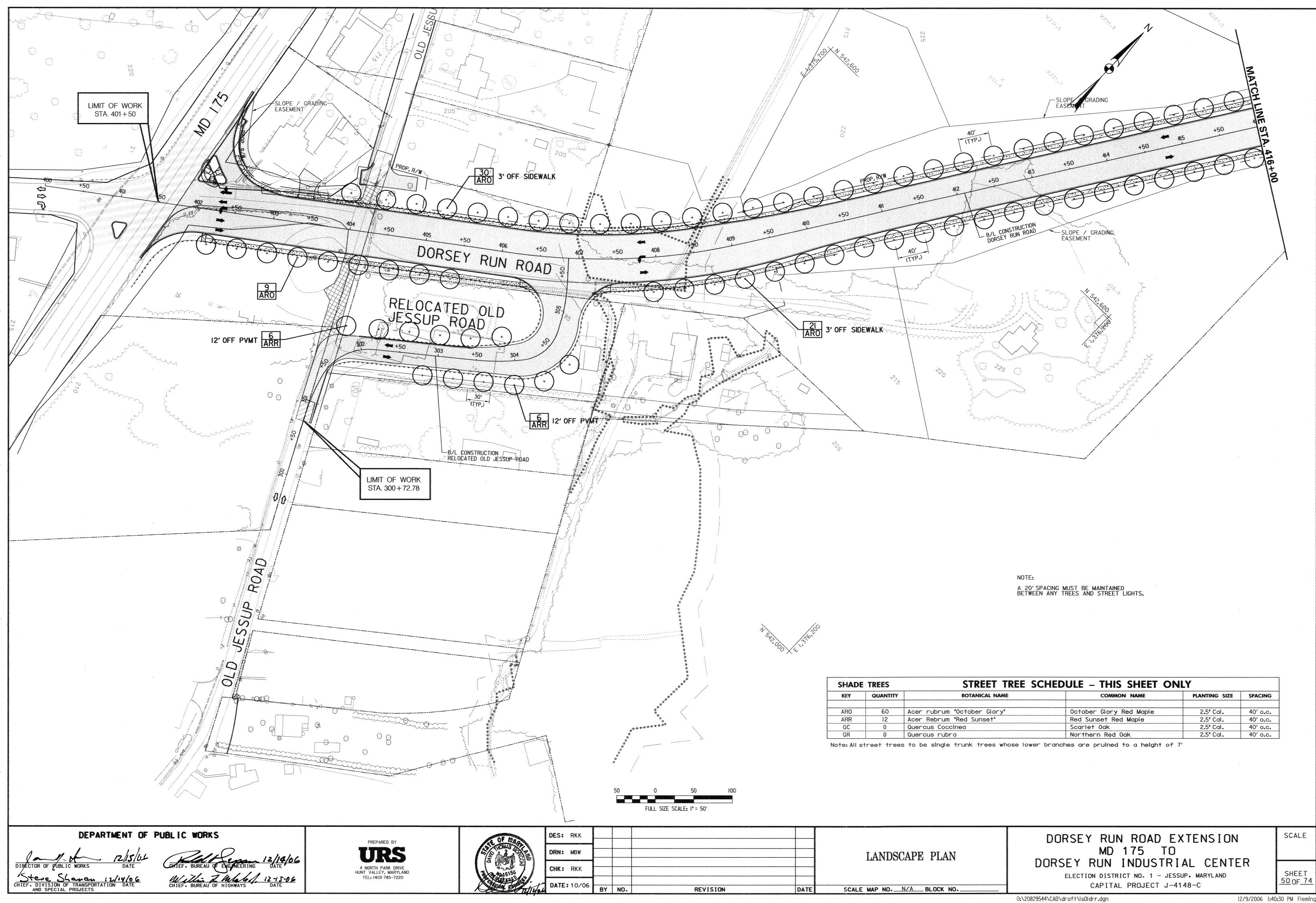
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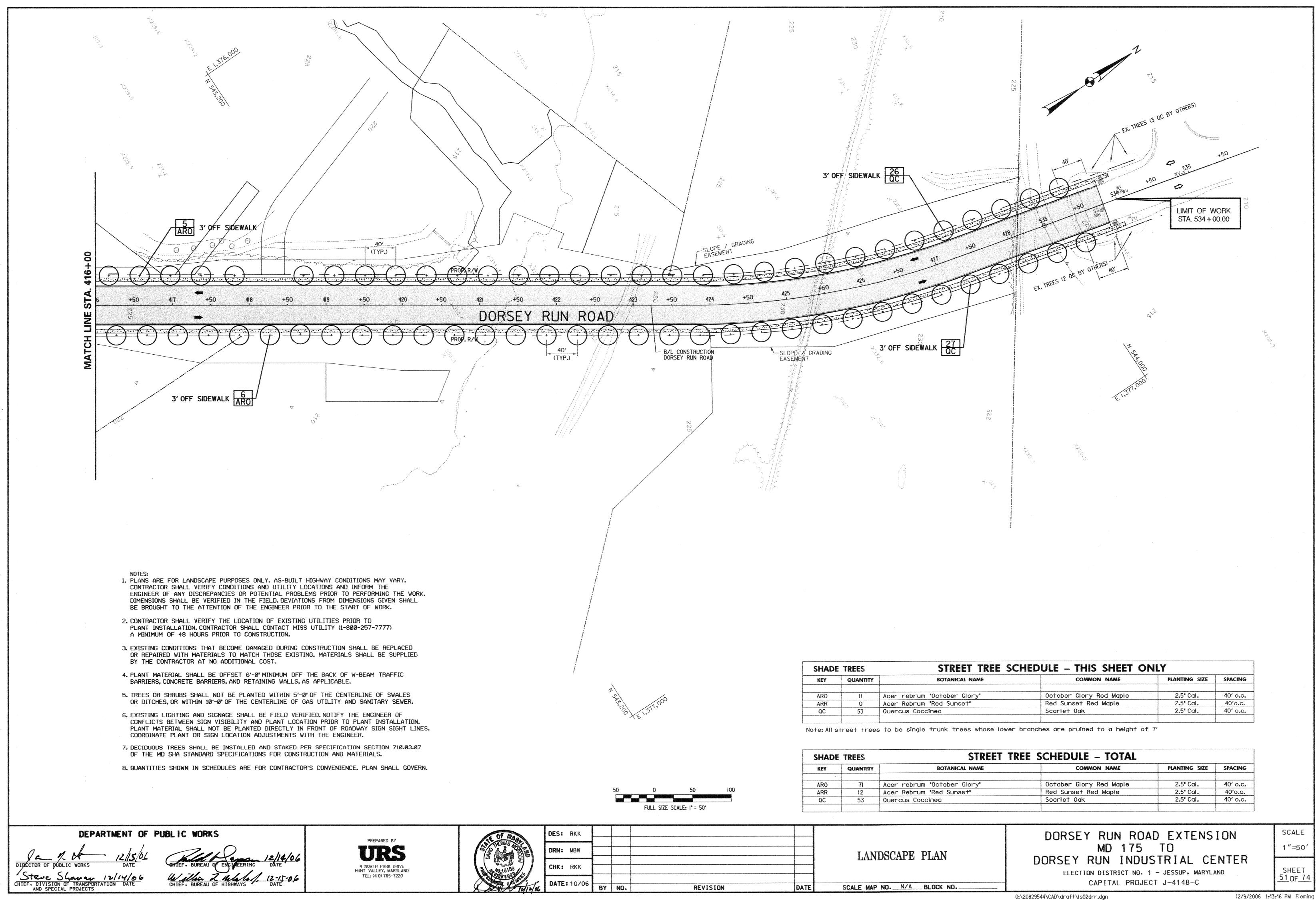
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STREET TREE SC	HEDULE - THIS SHEET ON	ILY	
BOTANICAL NAME	COMMON NAME	PLANTING SIZE	SPACING
er rubrum "October Glory"	October Glory Red Maple	2.5" Cal.	40' o.c.
er Rebrum "Red Sunset"	Red Sunset Red Maple	2.5" Cal.	40' o.c.
ercus Coccinea	Scarlet Oak	2.5" Cal.	40' o.c.
ercus rubra	Northern Red Oak	2.5" Cal.	40' o.c.

SCALE



STREET TREE SCHEDULE – THIS SHEET ONLY									
BOTANICAL NAME	COMMON NAME	PLANTING SIZE	SPACING						
rum "October Glory"	October Glory Red Maple	2.5* Cal.	40' o.c.						
rum "Red Sunset"	Red Sunset Red Maple	2.5" Cal.	40'o.c.						
Coccinea	Scarlet Oak	2.5° Cal.	40' o.c.						
		5 C	)						

STREET TREE	SCHEDULE – TOTAL		
BOTANICAL NAME	COMMON NAME	PLANTING SIZE	SPACING
rum "October Glory"	October Glory Red Maple	2.5" Cal.	40' o.c.
rum "Red Sunset"	Red Sunset Red Maple	2.5" Cal.	40'o.c.
Coccinea	Scarlet Oak	2.5" Cal.	40' o.c.

Project Name: Dorsey Run Road Extension Borehole No.: C-1	Project Name: Dorsey Run Road Extension Borehole No.: C-2	Project Name: Dorsey Run Road Extension Borehole No.: C-3	Project Name: Dorsey Run Road Extension Borehole No.: C-4
Project Number: 20829545.00000 Location: Jessup, Maryland	Project Number: 20829545.00000 Location: Jessup, Maryland	Project Number: 20829545.00000 Location: Jessup, Maryland	Project Number: 20829545.00000 Location: Jessup, Maryland
Date Started: 11/30/05     Date Completed: 11/30/05     Driller: Duane Addison	Date Started: 11/28/05     Date Completed: 11/28/05     Driller: Ed Gross       Drilling Company: EBA Engineering     Elevation: 198.8     Sheet 1 of 1	Date Started: 1/2805     Date Completed: 1/2805     Driller: Ed Gross       Drilling Company: EBA Engineering     Elevation: 199.3     Sheet 1 of 1	Date Started: 1/28/05     Date Completed: 1/28/05     Driller: Ed Gross       Drilling Company: EBA Engineering     Elevation: 229.6     Sheet 1 of 1
Drilling Company: EBA Engineering     Elevation:     Sheet 1 of 1       North: 541962     East: 1375328     Station:     Offset:	Drilling Company: EBA Engineering       Elevation: 198.8       Sheet 1 of 1         North: 542020       East: 1375452       Station:       Offset:	Drilling Company: EBA Engineering     Elevation: 199.3     Sheet 1 of 1       North: 542295     East: 1375764     Station:     Offset:	North:     542620     East:     1375976     Station:     Offset:
	No. No. So: Log	S: Logi	S. Log:
ed     o     o     o     o       Image     Image     Image     Image     Image     Image       Image     Image     Image     Image     Image     Image	Description: Con Remarks:	Had Had BO NO SO T C BO T C C SO C <td>Index     Index     Index</td>	Index     Index
0.3 4" Bituminous Concrete	0.7 8" Topsoil TOPS	0.5 6" Topsoil TOPS	
1 8-10-9 12"		1 1-1-2 7"	1 3-5-10 10" Tan to reddish brown, moist, mf SAND, trace SM
Orange-brown, moist, mf SAND, little silt, trace gravel	Grange-brown, wet, mt SAND, some sitt, trace	Orange-brown, moist, Silty CLAY, some sand	
	2 3-3-5 10°	$2 3-3-6 0^{\circ}$	2 11-17-21 16° X
Boring caved at 2.3' at completion	5 Light gray, moist, Clayey SILT, trace sand ML	5 Boring caved at 2.4' at completion Dry at completion	5 Reddish brown, moist, Clayey SILT, trace f
Dry at completion	3 4-6-8 10" 7		3 11-13-18 16" X
	8 Light gray & tan, moist, f SAND and Silty Clay SC		
	4 6-8-10 9" Light gray & red, moist, Sitty CLAY, trace f		4 4-5-5 7° X Tan, moist, mf SAND, little silt, trace gravel SM
	10 sand Boring caved at 7.5' at completion Dry at completion	10	
			5 3-3-5 10"
	15	15	15
			Tan, moist, mf SAND, trace silt
			6 4-6-8 12*
	20		20 20 Boring caved at 11' at completion
4 North Park Drive, Suite 300 Inspected By: Jason Kotova	25 4 North Park Drive, Suite 300 Inspected By: Jason Kotova	25 4 North Park Drive, Suite 300 Inspected By: Jason Kotova	25 <b>TTDC</b> 4 North Park Drive, Suite 300 Hunt Valley, MD 21030 Inspected By: Jason Kotova
4 North Park Drive, Suite 300 Hunt Valley, MD 21030 Tel: (410)785–7220 Fax: (410)785–6818Inspected By: Jason KotovaSignature:	UTRS4 North Park Drive, Suite 300 Hunt Valley, MD 21030 Tel: (410)785–7220 Fax: (410)785–6818Inspected By: Jason KotovaSignature:	URRS4 North Park Drive, Suite 300 Hunt Valley, MD 21030 Tel: (410)785–7220 Fax: (410)785–6818Inspected By: Jason KotovaSignature:	UTRS4 North Park Drive, Suite 300 Hunt Valley, MD 21030 Tel: (410)785–7220 Fax: (410)785–6818Inspected By: Jason KotovaSignature:
Name: Dorsey Run Road Extension Borehole No.: C-5	Project Name: Dorsey Run Road Extension Borehole No.: C-6	Project Name: Dorsey Run Road Extension Borehole No.: C-7	Project Name: Dorsey Run Road Extension Borehole No.: C-8
t Number: 20829545.00000 Location: Jessup, Maryland	Project Number: 20829545.00000 Location: Jessup, Maryland	Project Number: 20829545.00000 Location: Jessup, Maryland	Project Number: 20829545.00000 Location: Jessup, Maryland
arted: 11/2805 Date Completed: 11/2805 Driller: Ed Gross Company: EBA Engineering Elevation: 223.5 Sheet 1 of 1	Date Started: 11/28/05     Date Completed: 11/28/05     Driller: Ed Gross       Drilling Company: EBA Engineering     Elevation: 210.3     Sheet 1 of 1	Date Started: 11/30/05     Date Completed: 11/30/05     Driller: Duane Addison       Drilling Company: EBA Engineering     Elevation: 218     Sheet 1 of 1	Date Started: 11/30/05     Date Completed: 11/30/05     Driller: Duane Addison       Drilling Company: EBA Engineering     Elevation: 227.8     Sheet 1 of 1
Any: EBA Engineering Elevation: 223.5 Sheet 1 of 1 4 East: 1376197 Station: Offset:	Drilling Company: EBA Engineering     Elevation: 210.3     Sheet 1 of 1       North: 543297     East: 1376417     Station:     Offset:	Drilling Company: EBA Engineering     Elevation: 218     Sheet 1 of 1       North: 543508     East: 1376564     Station:     Offset:	North: 543853 East: 1376730 Station: Offset:
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	0.5 6" Topsoil TOPS	0.5 6" Topsoil TOPS	0.5 6" Topsoil TOPS
1-1-2 11° X	1 2-4-8 12" Gray & tan, moist, Silty CLAY, some sand CL	1 1-2-3 14"	1 1-1-1 16"
Reddish tan, moist, mf SAND, trace silt			Light brown, moist, mf SAND, little silt, trace
2 3-4-5 10°	2 10-19-20 13"	2 6-6-7 14" Tan & gray, moist, mf SAND, and silt, trace SM	$\begin{bmatrix} 2 \\ 2 \\ -2 \\ -3 \end{bmatrix}$ $\begin{bmatrix} 12^n \\ 4.7 \\ -12$
Boring Gayed at 3' at completion	5 Orange-brown to tan, moist, Silty CLAY, some CL	5 root fragments	55.5 Tan, moist, mf SAND, some silty clay, traceSC
	3 10-24-18 13"	3 10-14-14 14"	3 7-14-14 18" Reddish tan, moist, mf SAND, little silt, little SM
			gravel 8
	4 9-13-21 14" Orange-brown, moist, mf SAND, some silt, trace gravel SM	4 6-9-14 14" Orange-brown, moist, little silt, trace gravel SM	4 9-10-10 14"
	10     V     10     Inace graves       10     Boring caved at 6.7' at completion Dry at completion	10 Boring caved at 8' at completion Dry at completion	10     Boring caved at 10.3' at complet       Light gray, moist, SILT with f sand     ML
			13.5
			5 4-4-6 14* Light gray, moist, SILT Y CLAY, some f Sand CL
4 North Park Drive, Suite 300     Inspected By: Jason Kotova       Hunt Valley, MD 21030     Tel: (410)785-7220       Fax: (410)785-6818     Signature:	25     1     1 <b>TTDC</b> 4 North Park Drive, Suite 300 Hunt Valley, MD 21030     Inspected By: Jason Kotova	4 North Park Drive, Suite 300 Inspected By: Jason Kotova	4 North Park Drive, Suite 300 Inspected By: Jason Kotova
Tel:         (410)785–7220 Fax:         Signature:	4 North Park Drive, Suite 300       Inspected By: Jason Kotova         Hunt Valley, MD 21030       Tel: (410)785-7220         Fax: (410)785-6818       Signature:	UTRS4 North Park Drive, Suite 300 Hunt Valley, MD 21030 Tel: (410)785–7220 Fax: (410)785–6818Inspected By: Jason KotovaSignature:	4 North Park Drive, Suite 300       Inspected By: Jason Kotova         Hunt Valley, MD 21030       Tel: (410)785–7220         Fax: (410)785–6818       Signature:
DEPARTMENT OF PUBLIC WORKS	DES: CMC		DORSEY RUN ROAD EXTENSION SC.
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SION OF TRANSPORTATION DATE CHIEF, BUREAU OF HIGHWAYS DATE	TEL (10) 78-7220		ELECTION DISTRICT NO. 1 - JESSUP, MARYLAND CAPITAL PROJECT J-4148-C
ID SPECIAL PROJECTS	DATE: 10/06 BY NO.	REVISION DATE SCALE MAP NON/ABLOCK NO	

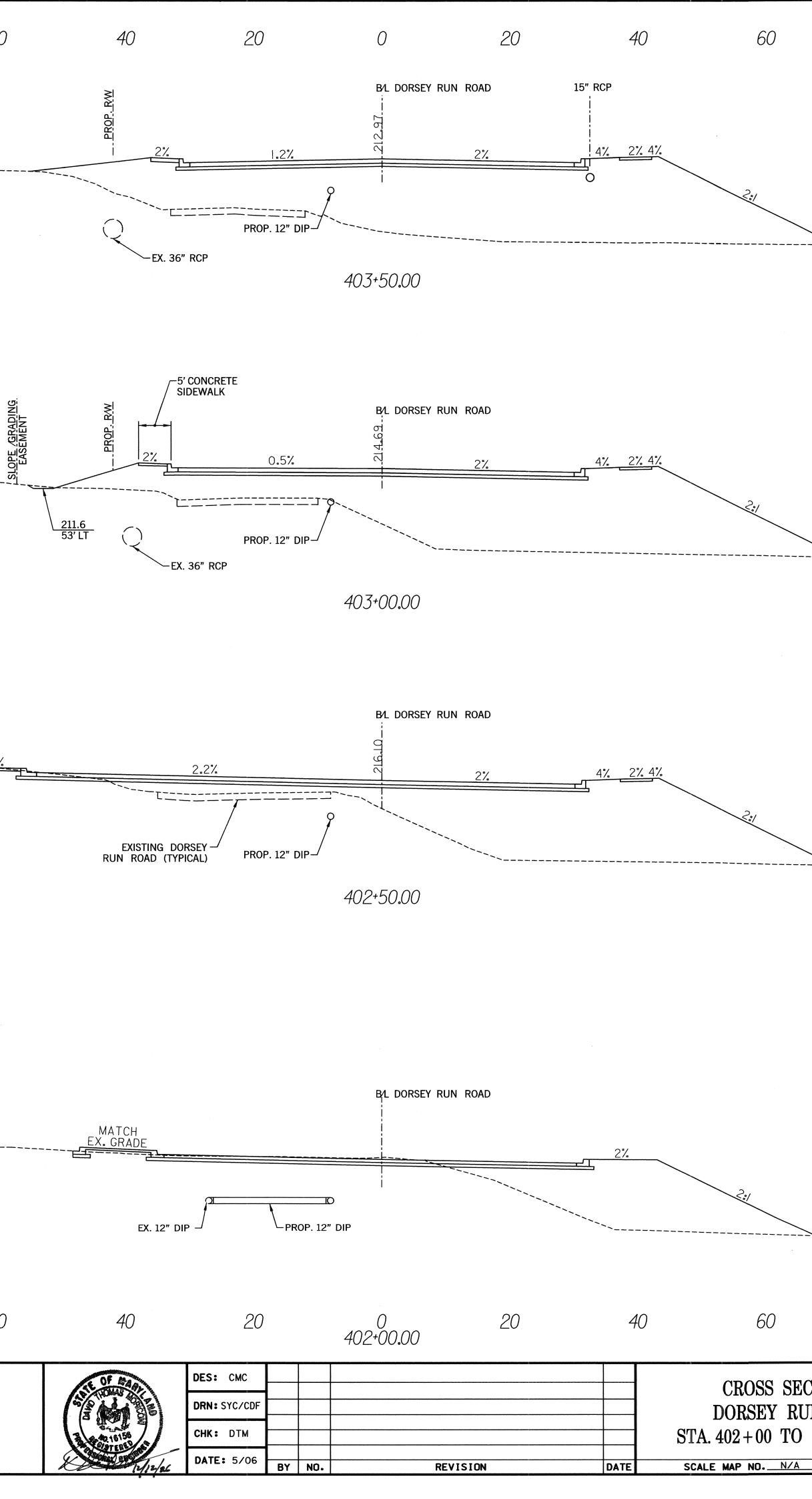
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Project Name: Dorsey Run Road I		e No.: SWM-3	Project Name: Dorsey Ru			e No.: SWM-4	Project Name: Dorsey Run Road Extension Project Number: 20829545.00000	Location: Jessup, Maryland	.: SWM-5
Project Number: 20829545.00000 Date Started: 11/3005 Date Complete	Location: Jessup, Maryla eted: 113005 Driller: Duane Addison		Project Number: 2082954 Date Started: 1/30/05		Location: Jessup, Maryla Driller: Duane Addison		Date Started: 1/30/05 Date Completed: 1/30/05	Driller: Duane Addison	
Drilling Company: EBA Engineering	Elevation: 195	Sheet 1 of 1	Drilling Company: EBA Engineering		1	Sheet 1 of 1	Drilling Company: EBA Engineering	Elevation: 193.6 Sheet 1	of 1
North: 542177 East: 137574		Offset:	North: 542229	East: 1375819		Offset:	North: 542139 East: 1375788	Station: Offset:	
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1 2-2-4 12" Gray &	4° Topsoil tan, moist, mf SAND with Silty Clay SC moist, cf SAND, little silty clay, trace SC gravel		_ 1 1-1-1 8 <sup>**</sup> X	Gray & tan, wet, mf SAND, s gravel (Fill)	ome silt, trace			ity CLAY with mf Sand	
5 <u>-</u> 2 2-2-6 12" Tan, r 5 <u>-</u> 5.5 <u>-</u> 5.5	moist, cf SAND, little silty clay, trace SC gravel		5	Tan & gray, moist, mf SAND (Possible Fill) 5.5	with Silty Clay		5 2 6-10-10 18" Gray & tan, moist, S trace	silty Clay and mf sand, SC	
8	ray, moist, mf SAND, some silty clay, trace gravel	Water on spoon @ 8.0'	3 13-17-14 14"	Reddish tan, wet, cf SAND, l gravel 8		Water on rods @ 3.0°	3 8-8-7 12"	Wate	er on spoon @ 8.0°
10 - 4 12-17-16 16" Orange	e-brown, wet, cf SAND, some gravel, ittle silt	Boring caved at 9' at completion Water at 8' at completion		Light gray, moist, Silty CLAY		Boring caved at 8' at completion Water at 4' at completion	10 4 0-8-8 12 9.7 littl 10 Gray & red, moist, S	e silt	aved at 9.2' at completion r at 7.8' at completion
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Tel: (410)785–7220 Fax: (410)785–6818	Suite 300 Inspected By: Jason Kotova Signature:		Tel: (41) Fax: (41)	Park Drive, Suite 300 NMD 21030 0)785–7220 10)785–6818 Signatu	re:		<b>URS</b> 4 North Park Drive, Suite 300 Hunt Valley, MD 21030 Tel: (410)785–7220 Fax: (410)785–6818	Inspected By: Jason Kotova Signature:	-
Project Name:       Dorsey Run Road I         Project Number:       20829545.00000         Date Started:       1/2805         Date Complete       Complete	Location: Jessup, Maryla	and	Project Name: Dorsey Ru Project Number: 2082954 Date Started: 11/2805	45.00000	Borehole Location: Jessup, Maryla Driller: Ed Gross	e No.: SWM-8			
Drilling Company: EBA Engineering North: 543403 East: 137658	Elevation: 214.7       30     Station:       37	Sheet 1 of 1 Offset:				Sheet 1 of 1 Offset:		•	· · · · ·
Cour Blow Cour Recovery: Sampled: Sampled:	Description:     9 24 34 35 30       6" Topsoil	Remarks:	Depth: Sample No Blow Count Recovery: Sampled:	Descriptio	اضالا	Remarks:			
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5 <u>2 5-5-5 16</u> Tan & <u>5.5</u>	gray, moist, mf SAND with Silty Clay		5 2 4-6-3 5"						
3 6-7-9 17* Light gr	ray & tan, moist, Clayey SILT, trace f		3 3-6-10 14*	Gray, moist, mf SAND, som	e clayey silt SM	Water on spoon @ 9.0'			
		Boring caved at 7.6' at completion Dry at completion		Orange-brown, wet, cf SAND 10 some silt		loring caved at 8.4' at completion Water at 8.2' at completion			
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URS         4 North Park Drive, Hunt Valley, MD 21030           Tel:         (410)785–7220           Fax:         (410)785–6818	Suite 300 Inspected By: Jason Kotova Signature:		URS 4 North Hunt Valle Tel: (410 Fax: (41	Park Drive, Suite 300 my, MD 21030 0)785–7220 10)785–6818 Signatu					SCALE
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4 NORTH PARK DRIVE IUNT VALLEY, MARYLAND TEL: (410) 785-7220	CHK: D CHK: D CHK: D DATE: 10	TM 0/06 BY NO.	REVISION	DATE	SCALE MAP NO.	N/A BLOCK NO.	ELECTION DISTRICT NO.		SHEET 53_0F_74
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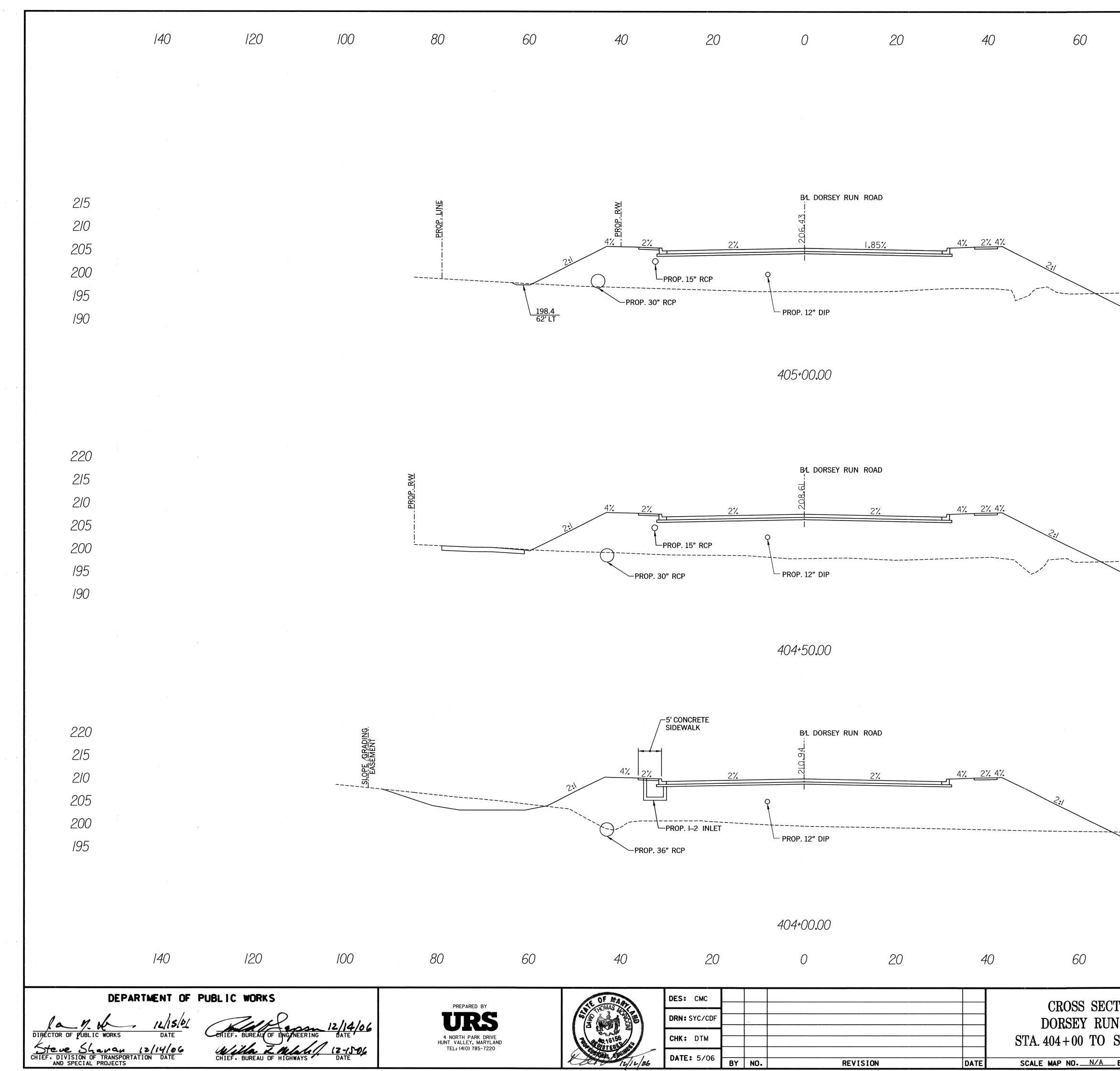
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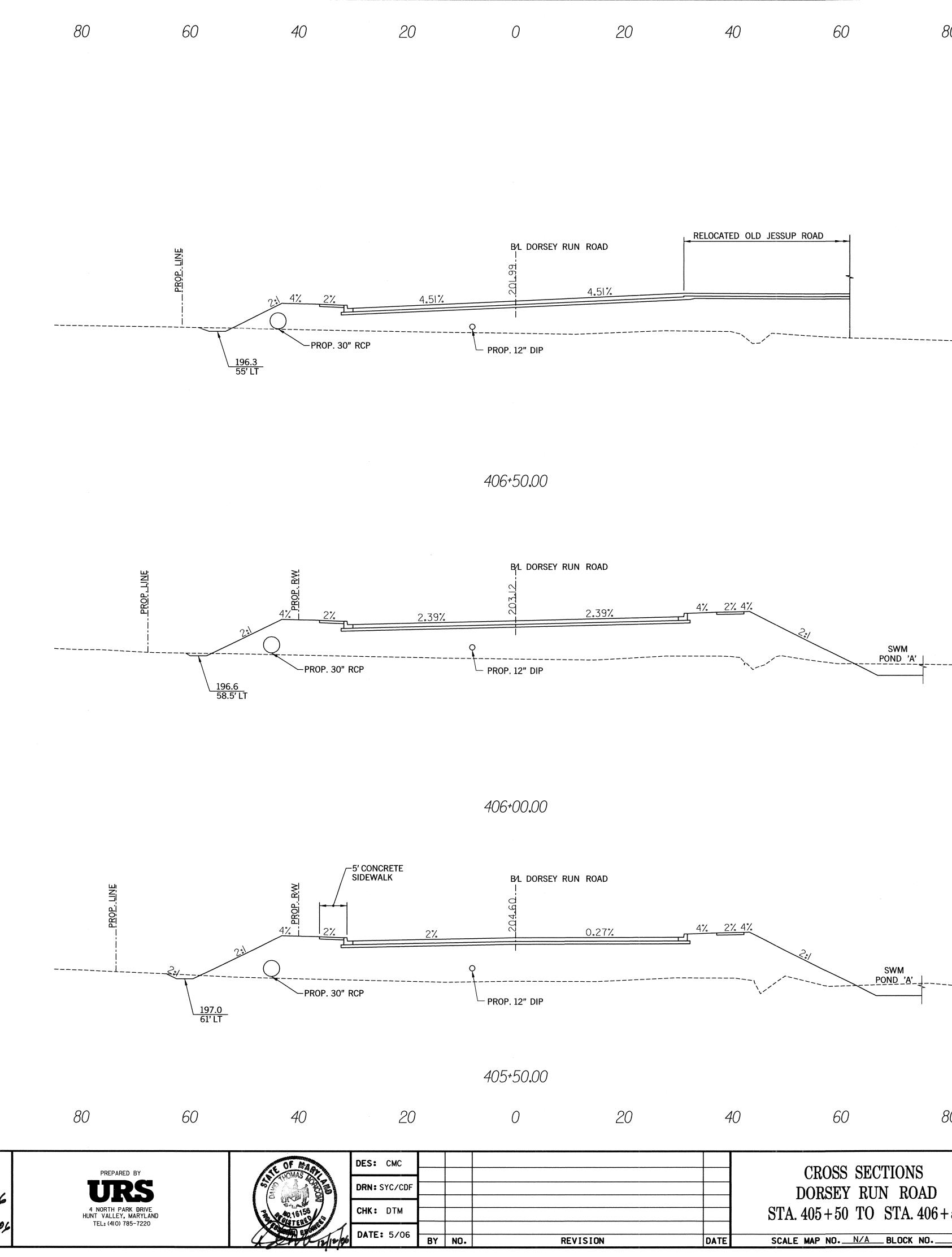
F HIGHWAYS DATE

CHIEF, BUREAU OF

DIRECTOR

CHIEF, DIVISION OF TRANSPORTATION DATE AND SPECIAL PROJECTS

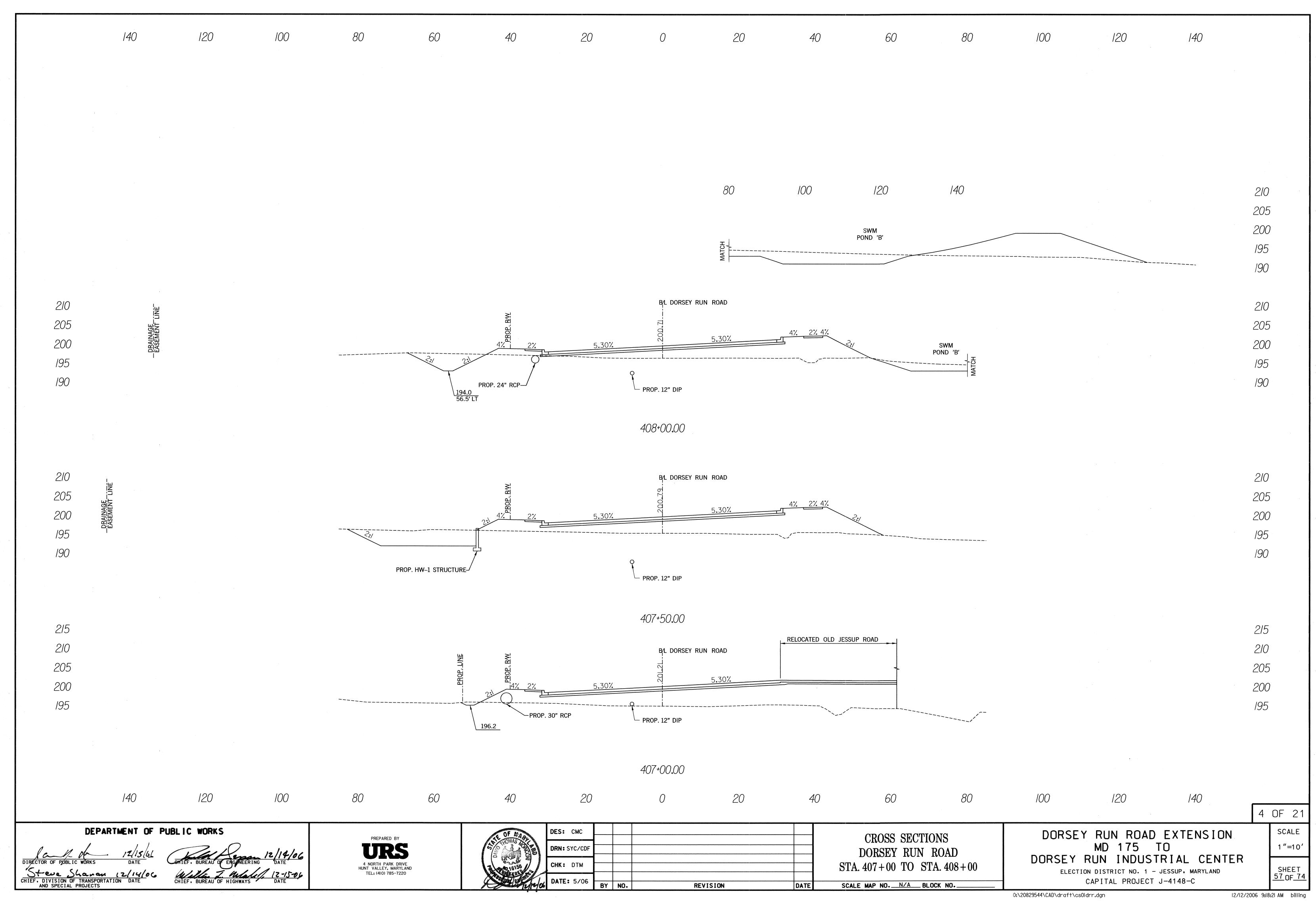


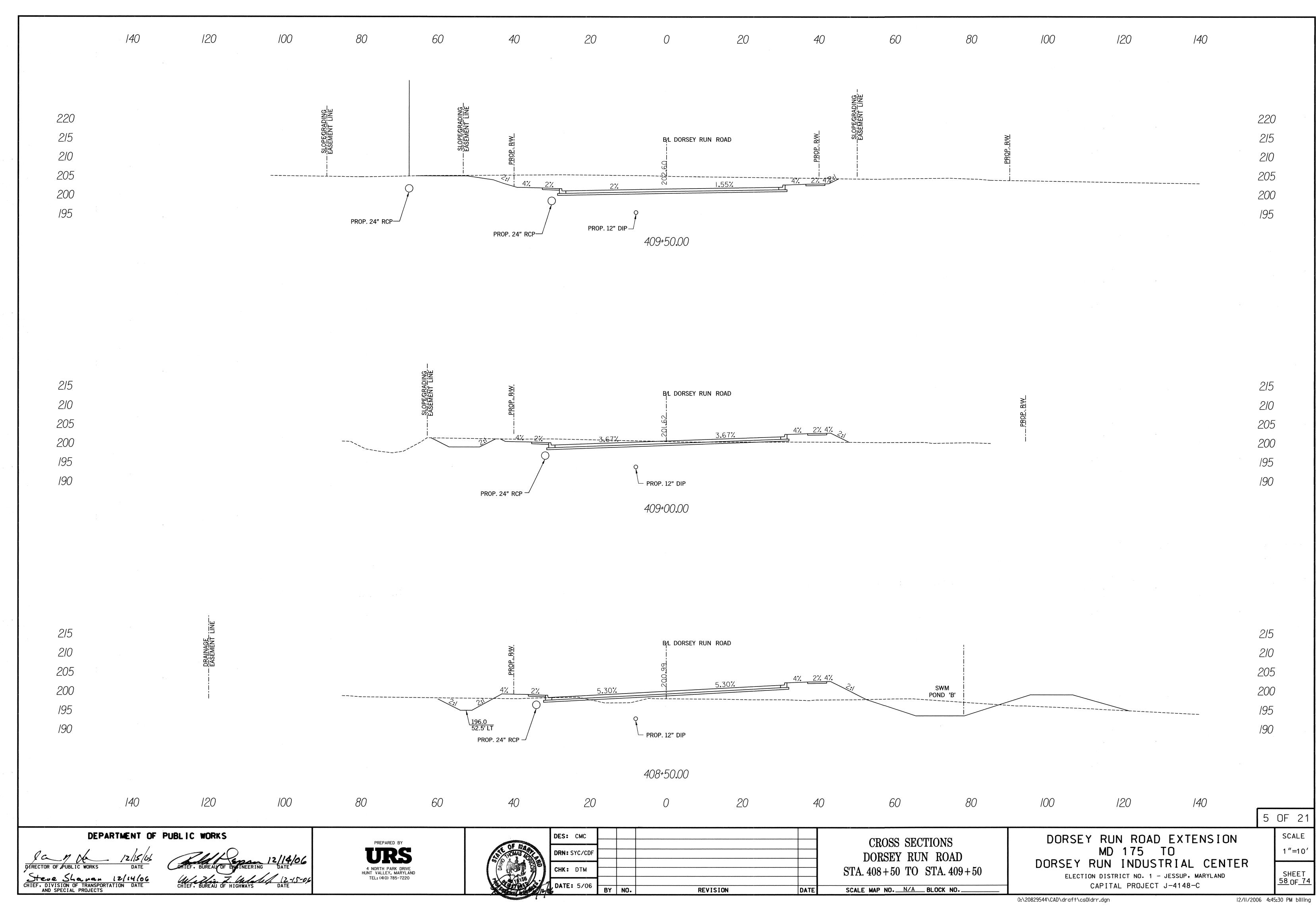


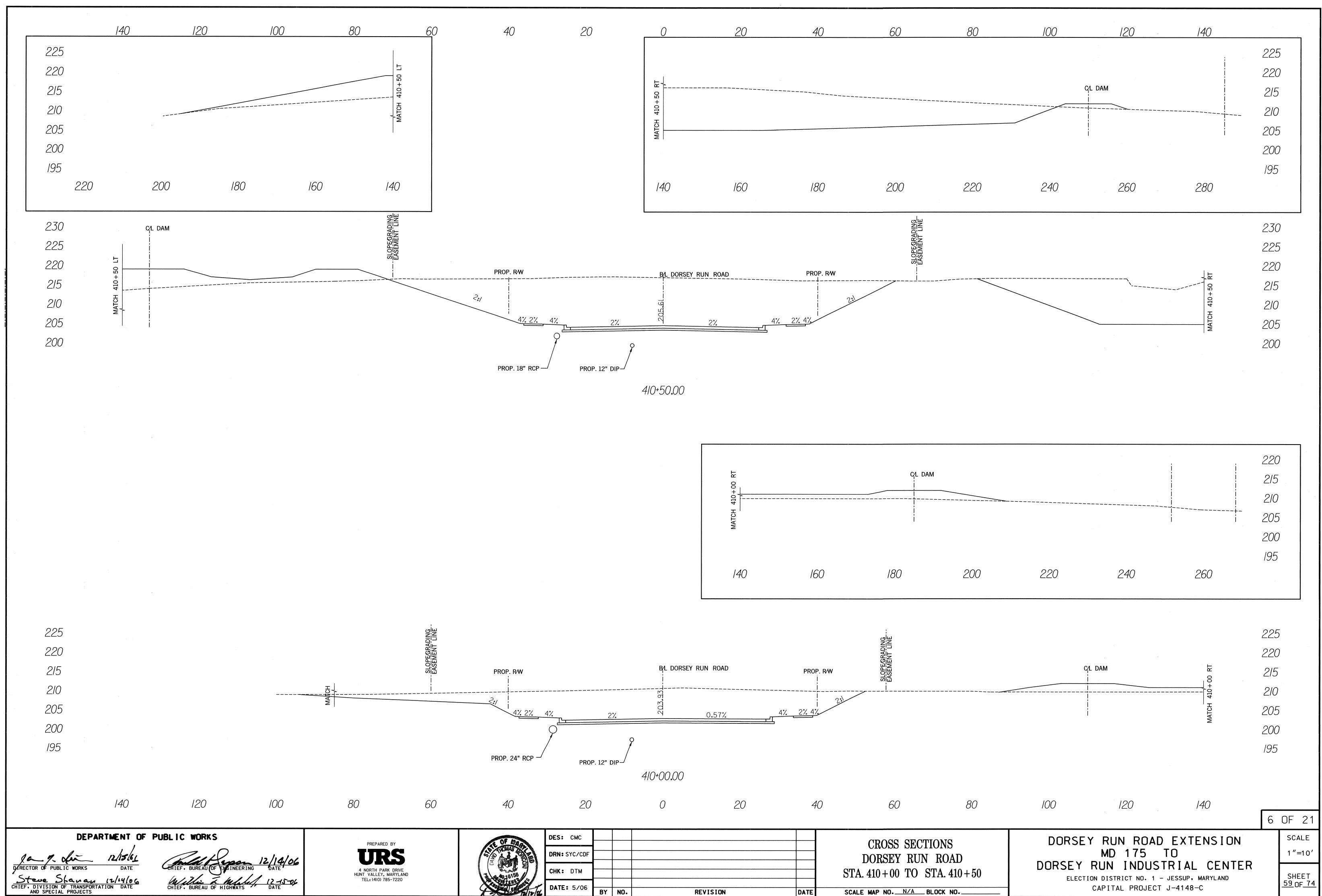
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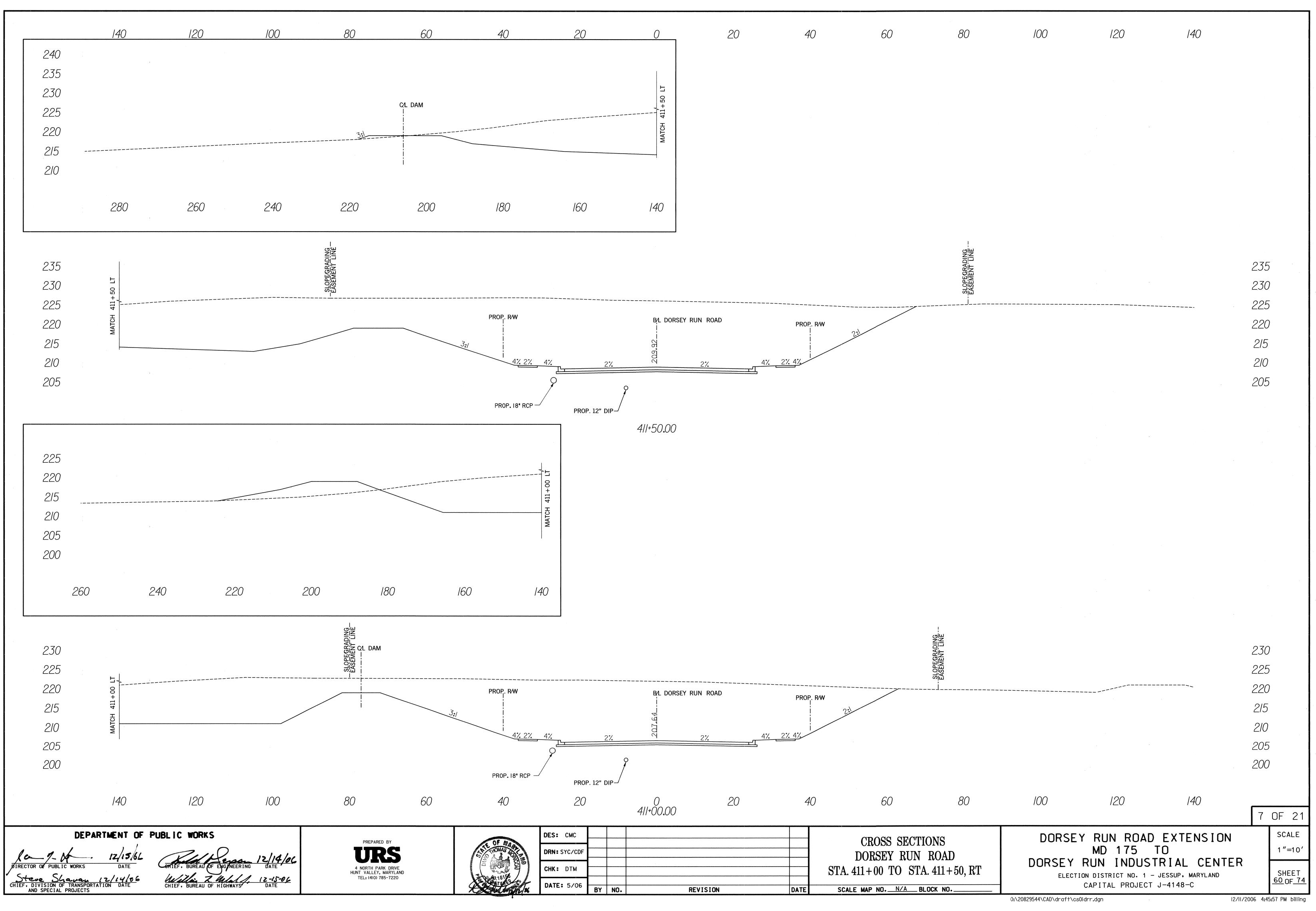


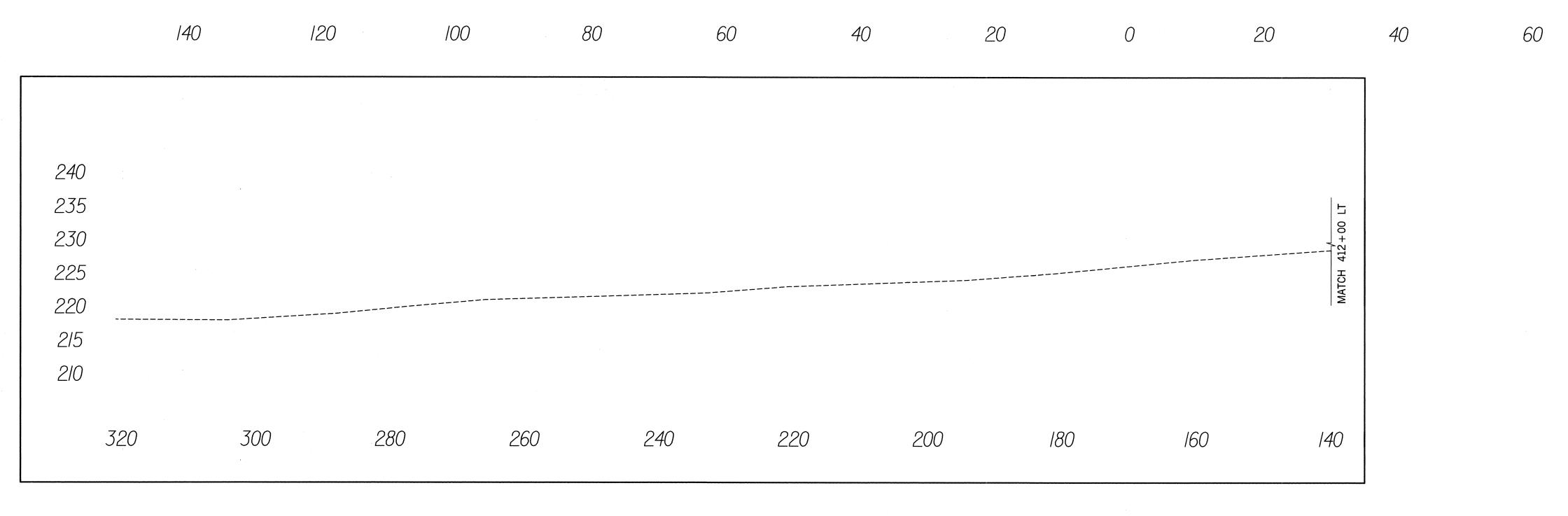


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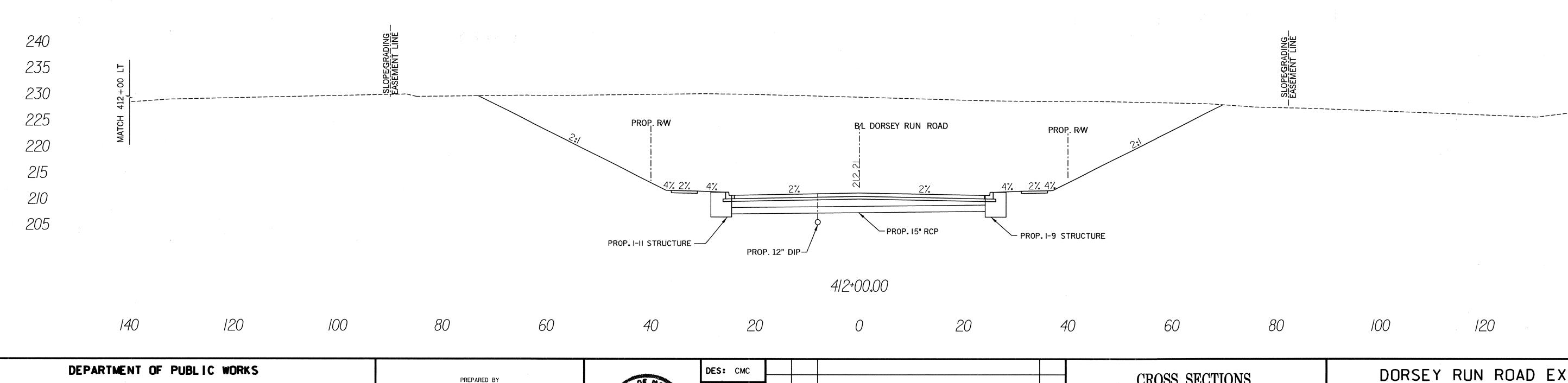
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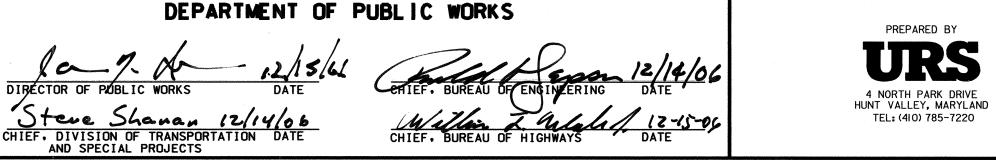


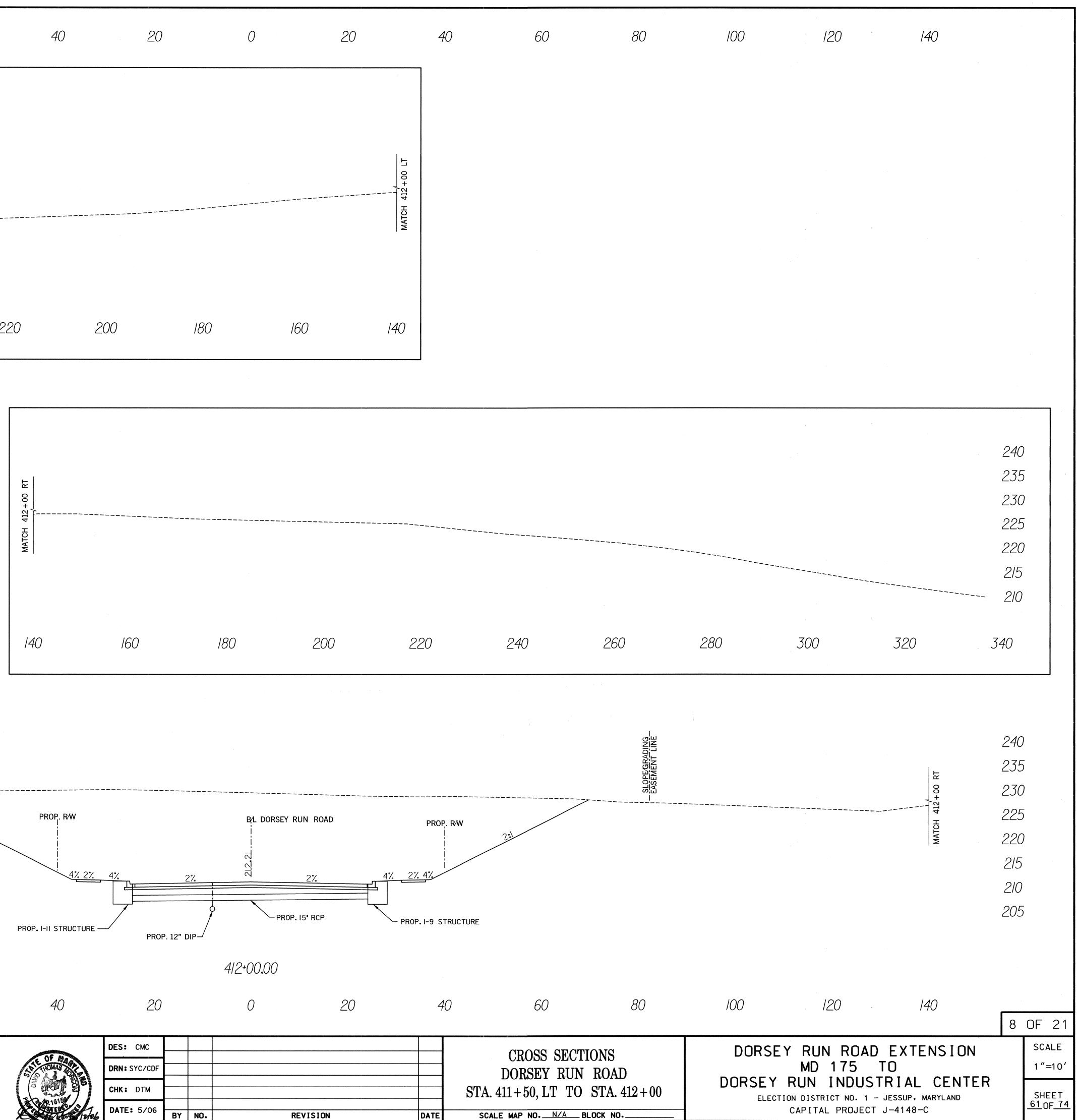












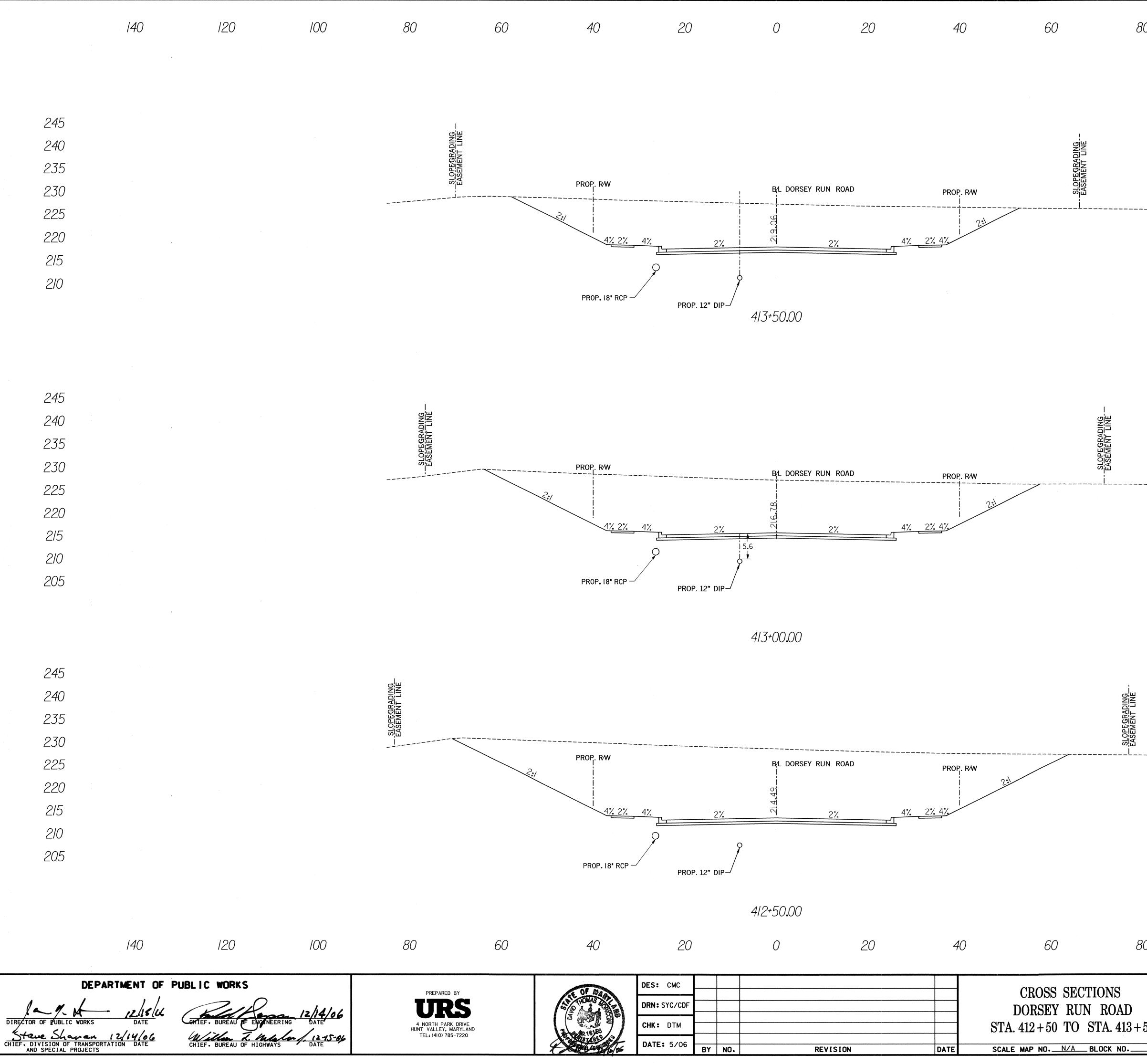
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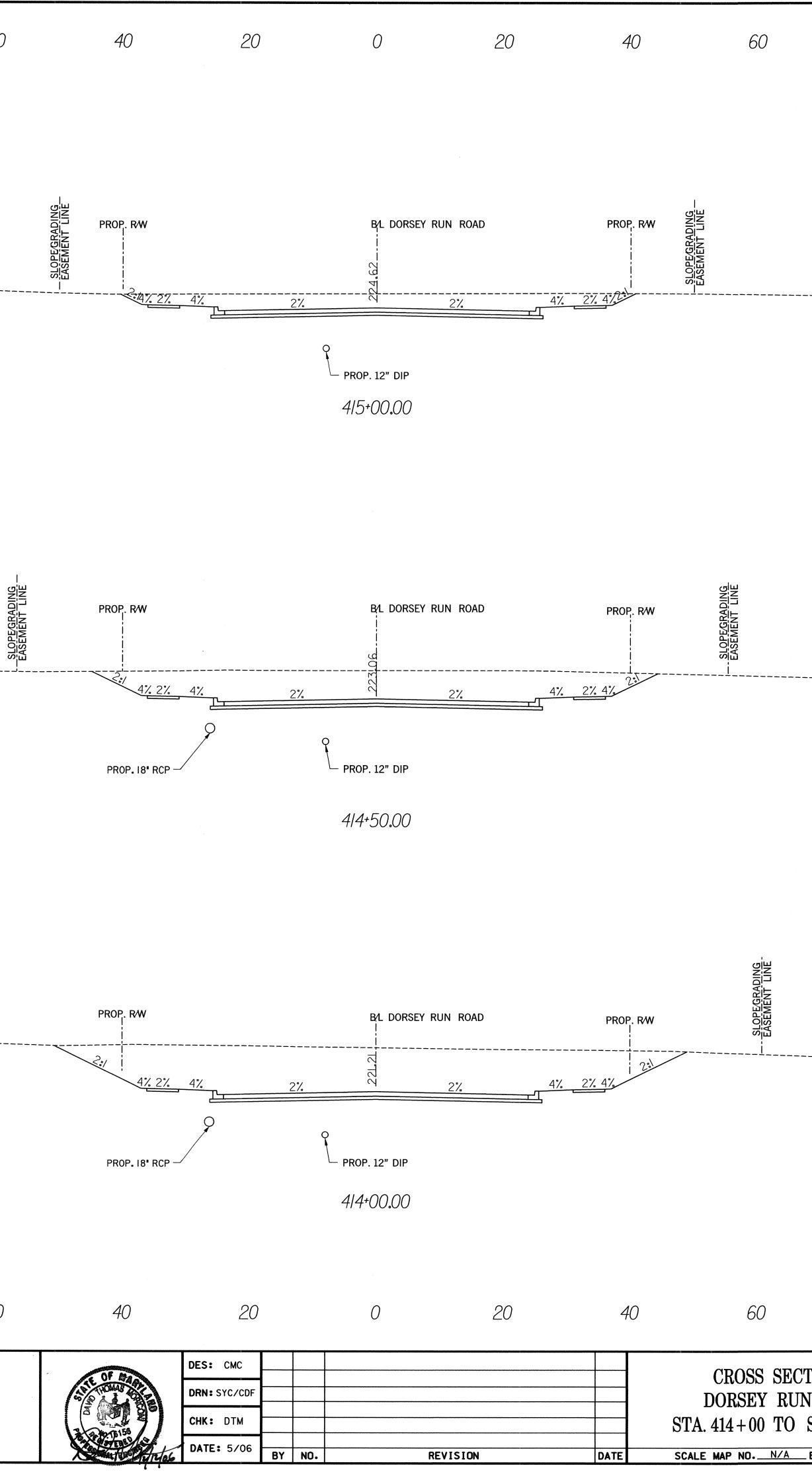
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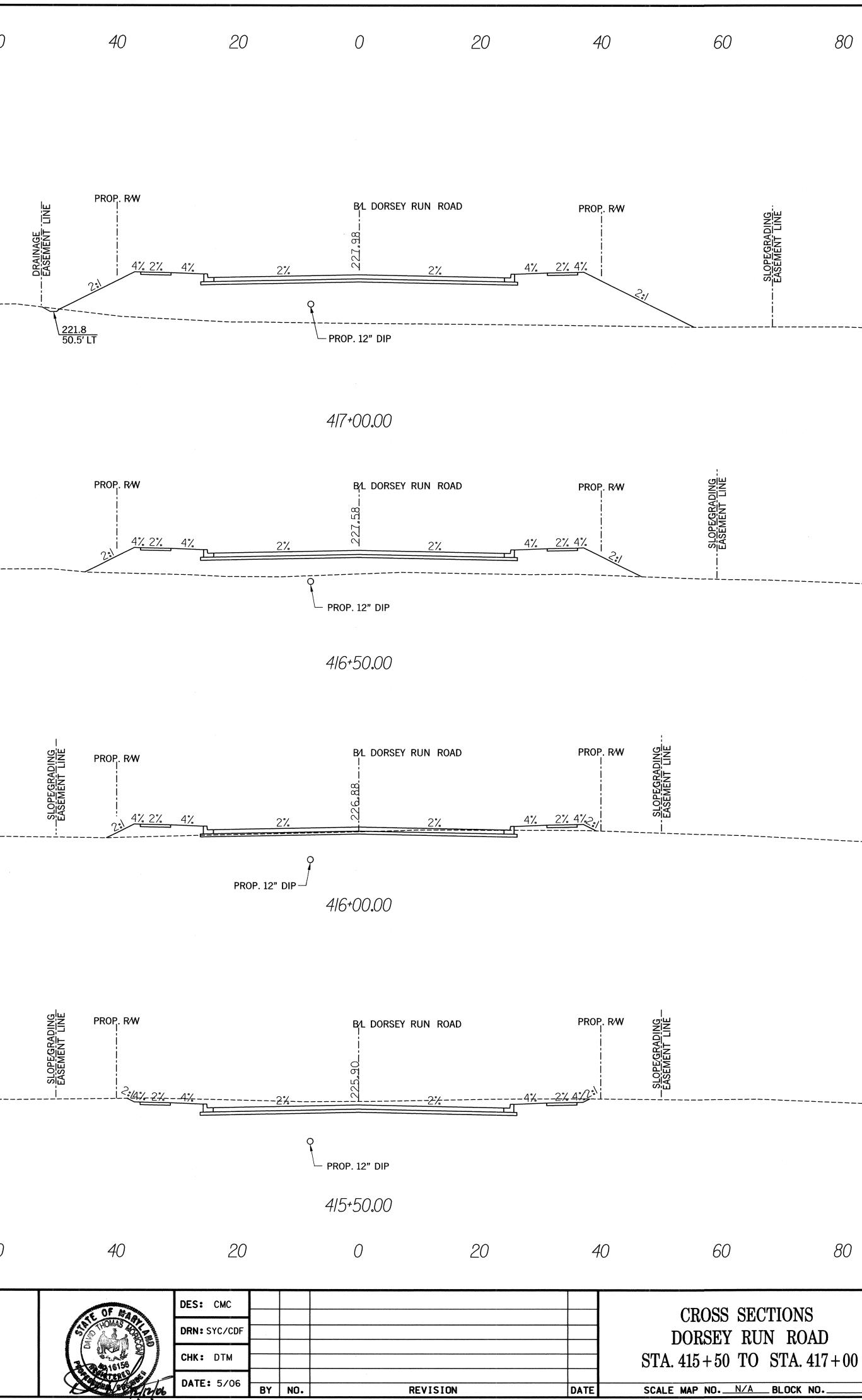
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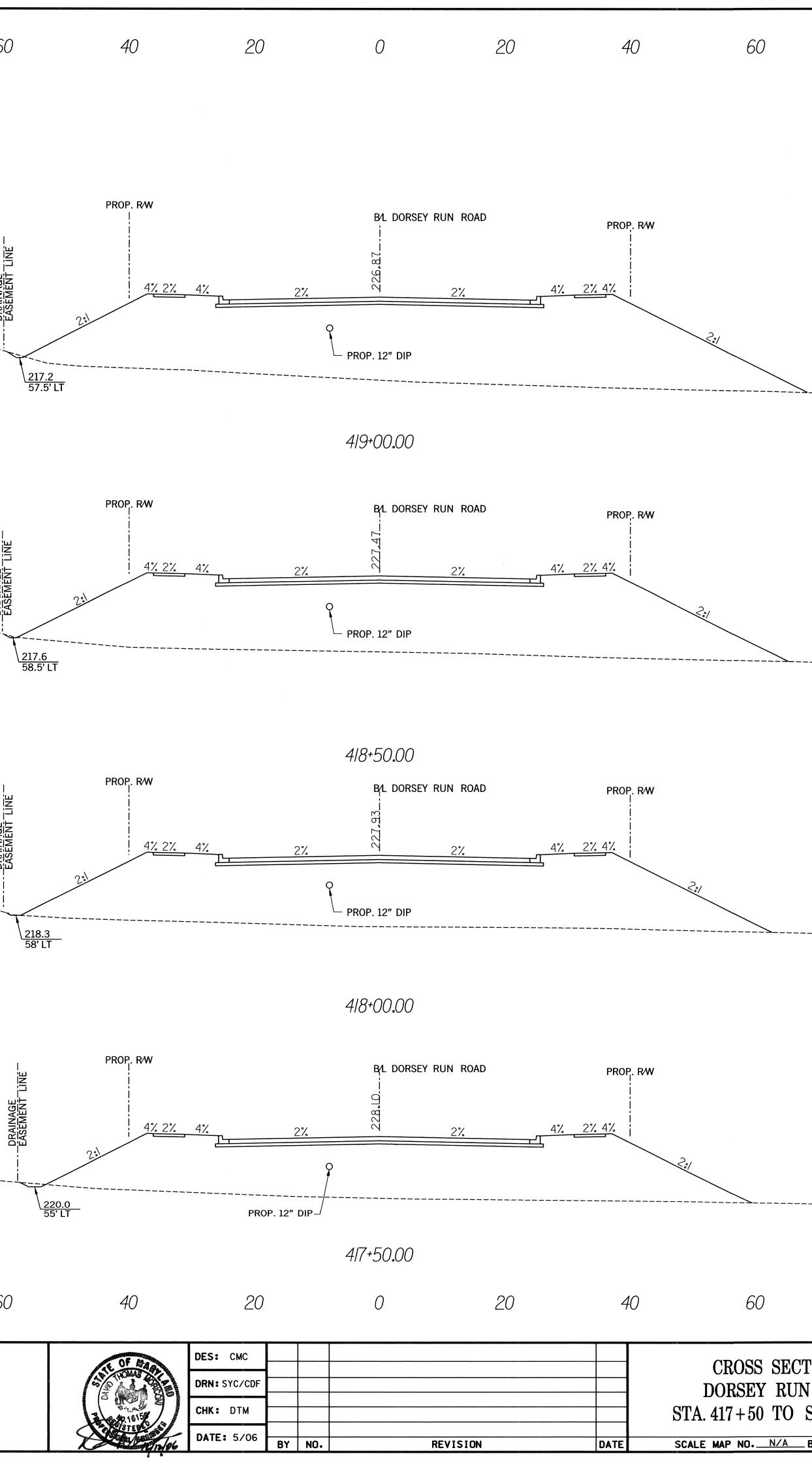
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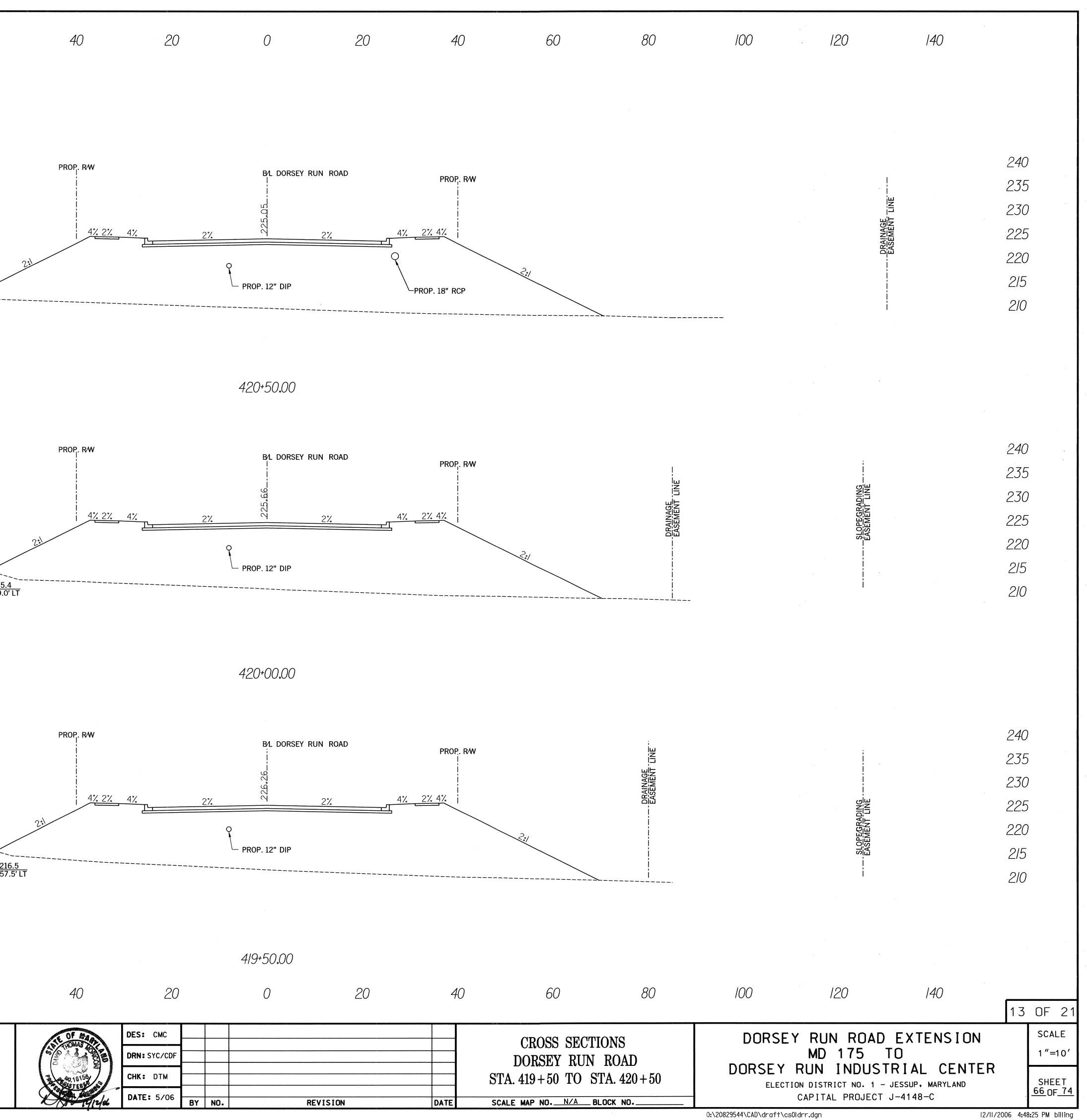
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	OR OF PUBLIC W	ORKS DATE	CHIEF, BUREAU OF ENGIN	EERING DATE	4 NORTH PARK E HUNT VALLEY, MAR TEL: (410) 785-7	DRIVE

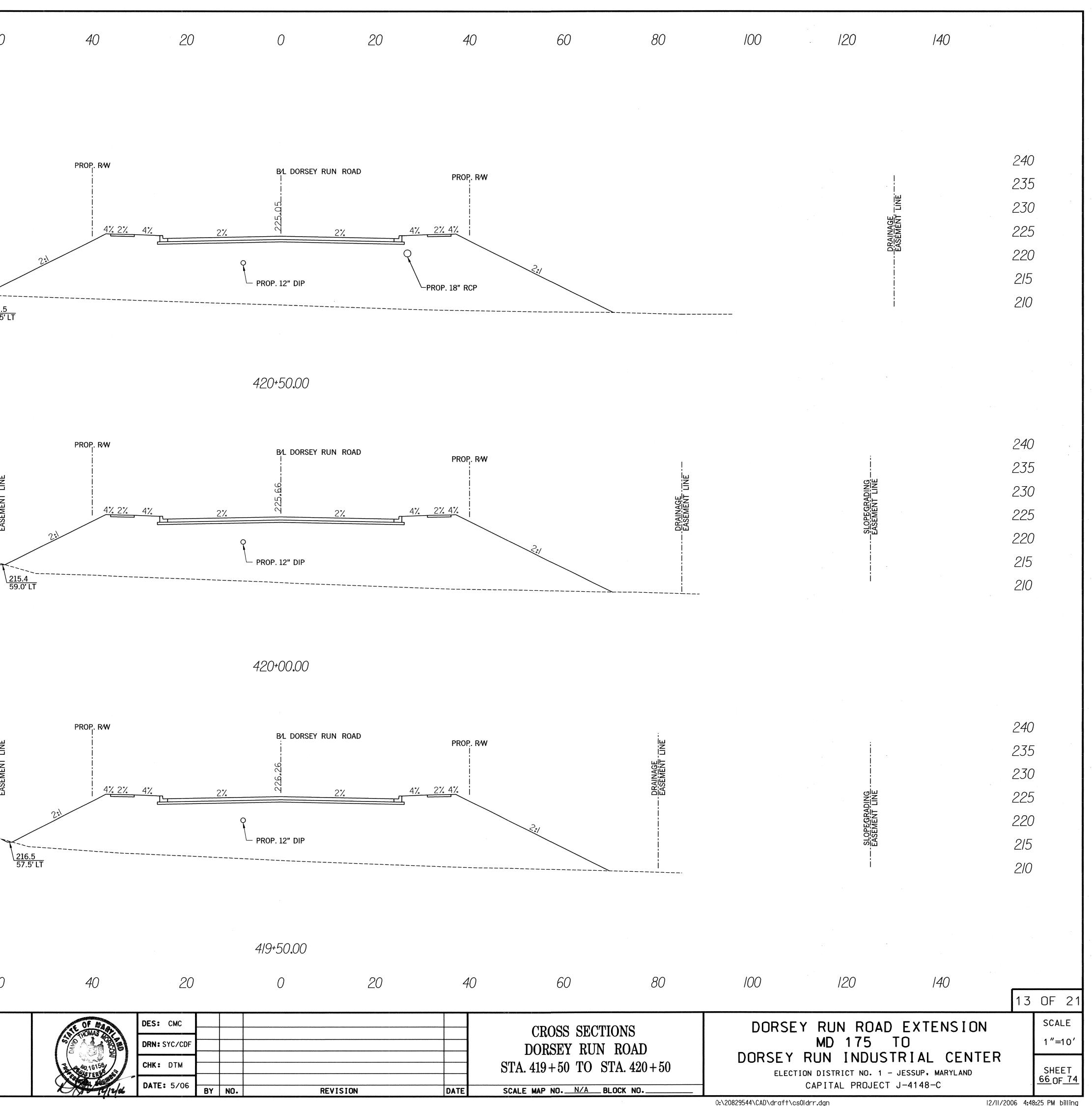


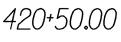
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- <u>EASE</u>				225
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80	100	120	140	<b></b>
T				12 OF 21
TIONS I ROAD STA. 419+00	DORSEY	EY RUN ROAD MD 175 TO RUN INDUSTR TION DISTRICT NO. 1 - JI	D RIAL CENTE	1 "=10'

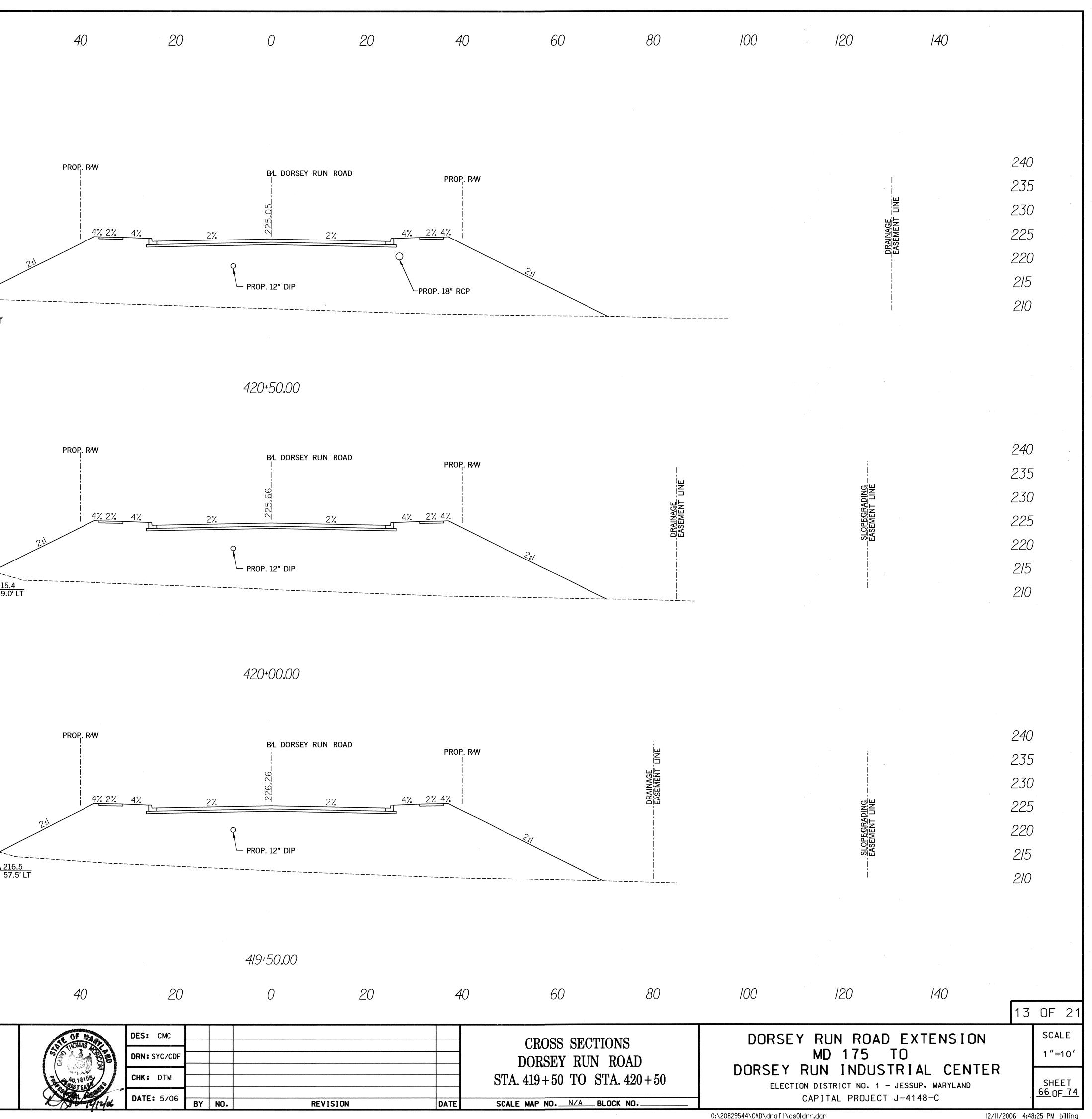
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230					<u>DRAINAGE</u> EASEMENT LINE
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	EPARTMENT OF PU	BLIC WORKS		PREPARED BY	
IRECTOR OF PUBLIC WORK	S DATE	CHIEF, BUREAU ØF ENGIN	12/14/06 EERING DATE	4 NORTH PARK DI HUNT VALLEY, MAR	

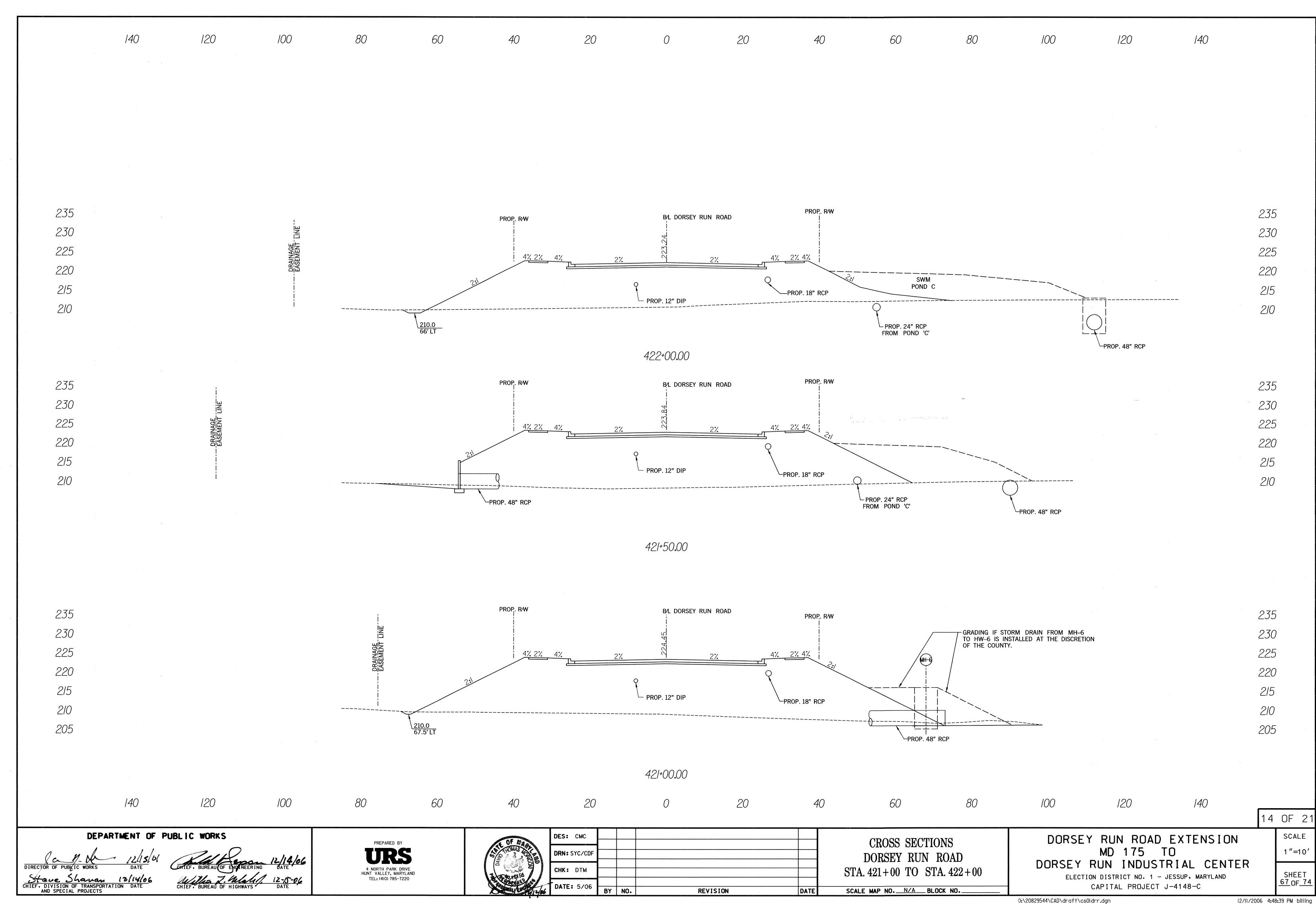
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SE OF MARY	DES: CMC					CROSS SEC'
	DRN: SYC/CDF					DORSEY RUN
3 40,16150	CHK: DTM					STA. 419+50 TO
Hand Hand	DATE: 5/06	BY	NO.	REVISION	DATE	SCALE MAP NO. N/A





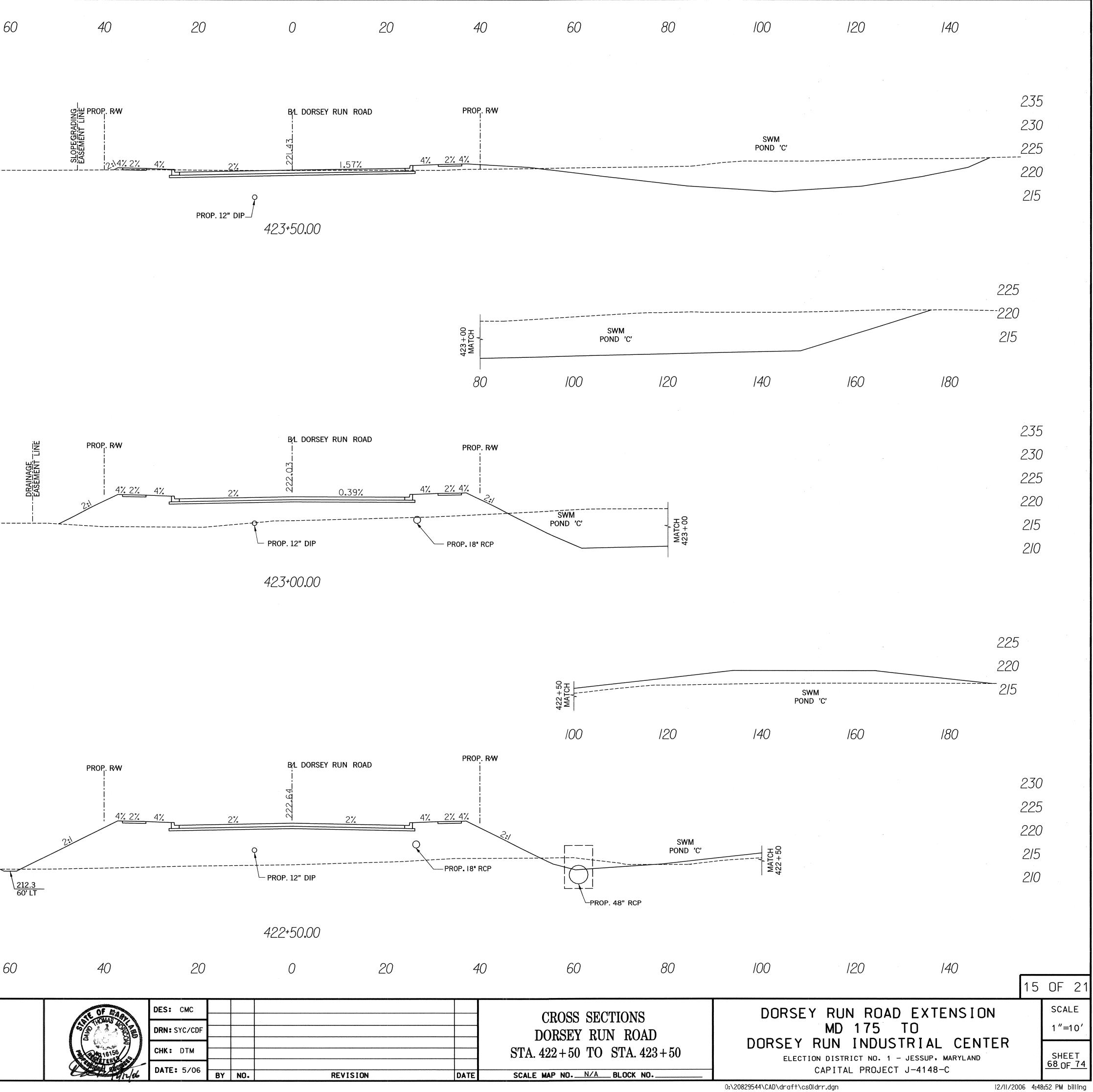




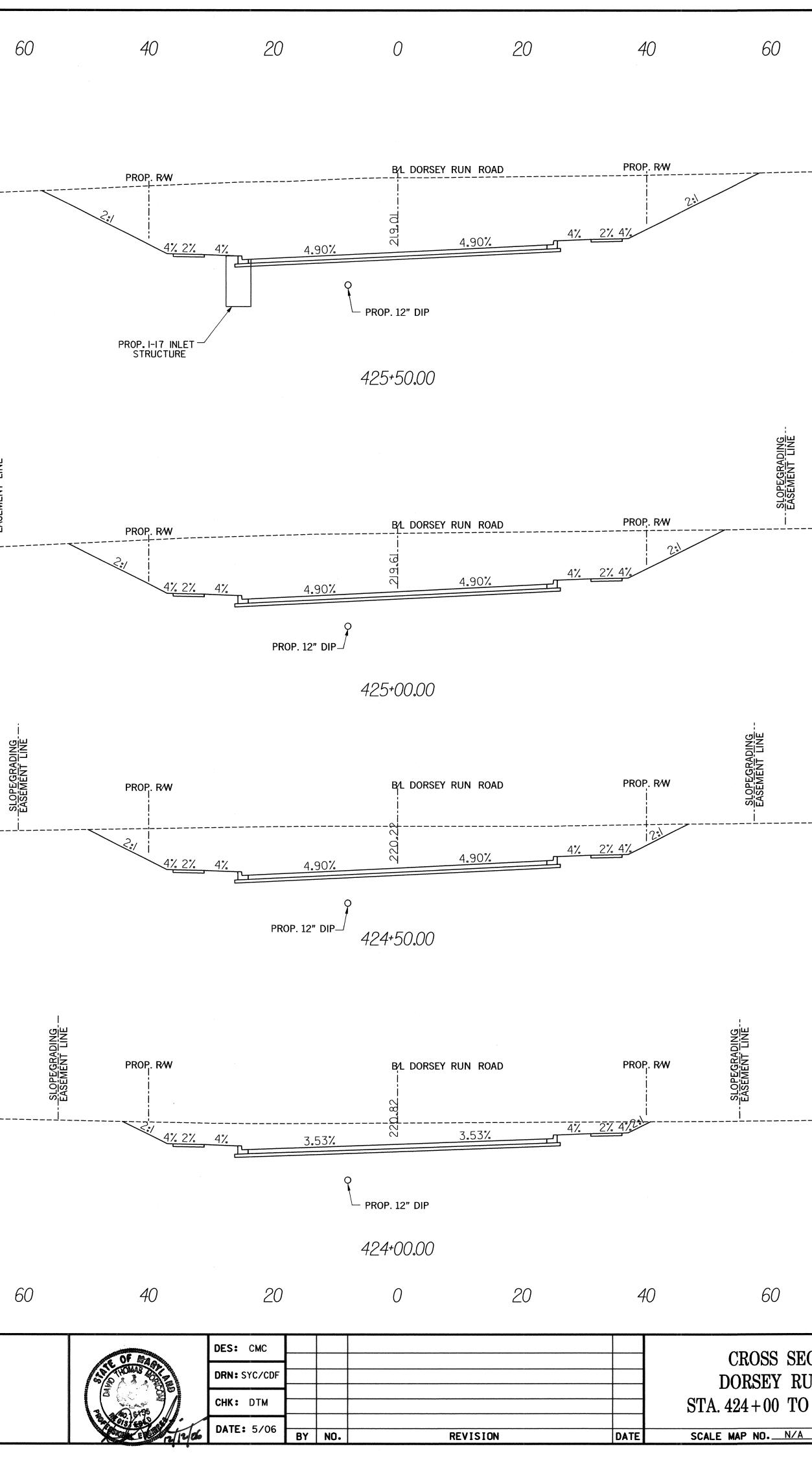


		14	UF ZI
FIONS	DORSEY RUN ROAD EXTENSION		SCALE
N ROAD	MD 175 TO		1 "=10'
STA. 422 + 00	DORSEY RUN INDUSTRIAL CENTER		
	ELECTION DISTRICT NO. 1 - JESSUP, MARYLAND		SHEET <u>67</u> 0F_74
BLOCK NO.	CAPITAL PROJECT J-4148-C		

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C	EPARTMENT OF PU	JBLIC WORKS		PREPARED B	3Y
DIRECTOR OF PUBLIC WOR	- 12/15/16 RKS DATE	CHIEF, BUREAU OF ENGLISE	ERING DATE	UR	S
/			12-15-06	4 NORTH PARK HUNT VALLEY, MA TEL: (410) 785-	RYLAND



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D	IRECTOR OF PUBLIC WOR		CHIEF. BUREAU OF ENGINE		4 NORTH PA HUNT VALLEY,	RK DRIVE MARYLAND
ĊF	DEF. DIVISION OF TRAN AND SPECIAL PROJE	NSPORTATION DATE	CHIEF, BUREAU OF HIGHW	12-15-05 YS DATE	TEL: (410) 7	85-7220



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			•				16 OF 21
ECTIONS	3	DORS			EXTENSI	ON	SCALE
RUN RO.	AD			175 T	O RIAL CEI	NTFR	1 "=10'
O STA. 4			ECTION DIST	RICT NO. 1 -	JESSUP, MARYLAN		SHEET <u>69</u> 0F <u>74</u>
A BLOCK	NO	0:\20829544\CAD\drat		AL PROJECT	J-4148-U		6 4.49.09 PM billing

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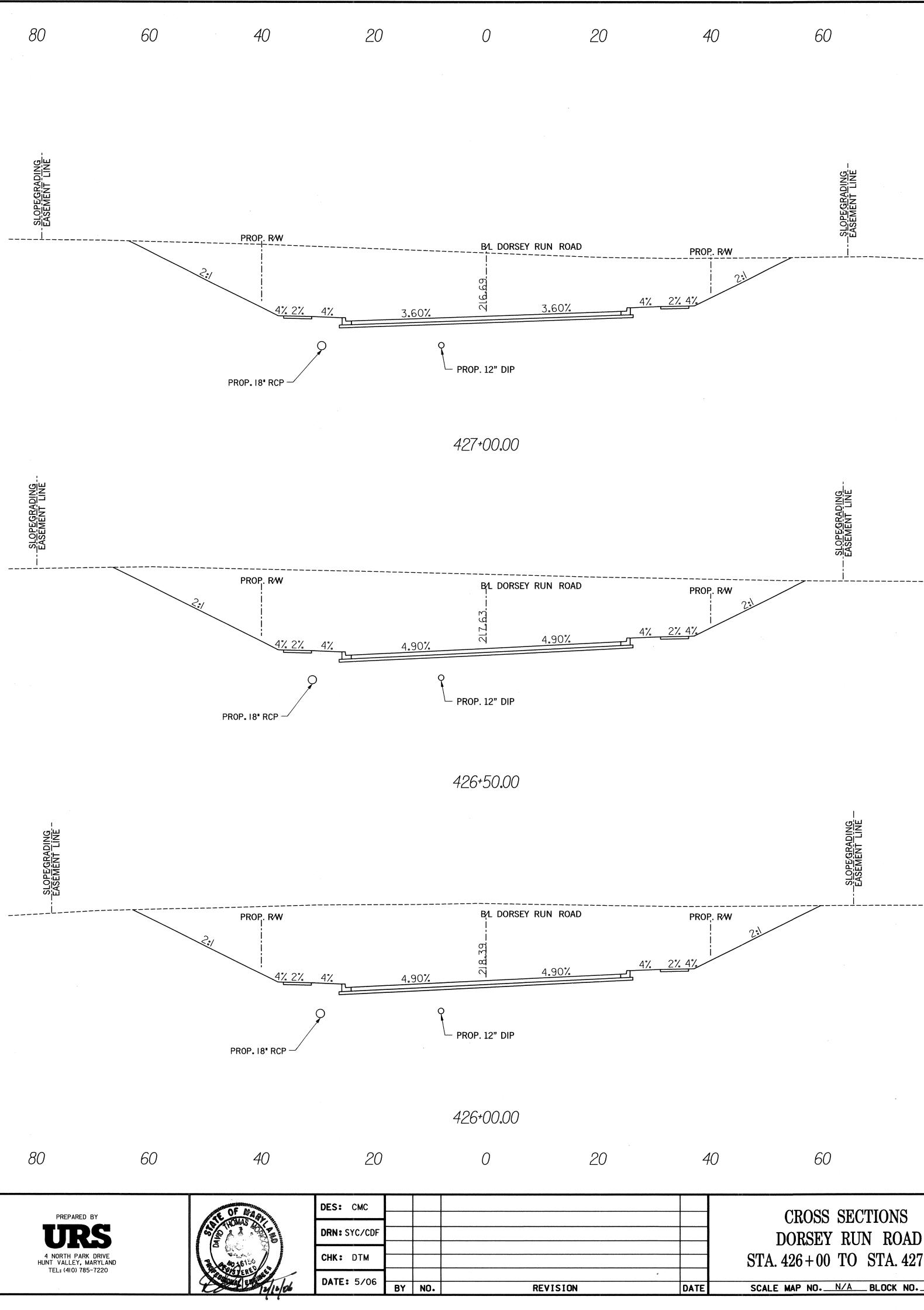
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240			<u>GRADING</u> ENT LINE
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SLOPE/GRADING EASEMENT LINE 

SLOPE/GRADING EASEMENT LINE 

140	120	100	80
DEPARTMENT OF F DIRECTOR OF PUBLIC WORKS DATE Steve Shanan 12/14/06 CHIEF, DIVISION OF TRANSPORTATION DATE AND SPECIAL PROJECTS	PUBLIC WORKS	6/12-15-06	PREPARED BY <b>UCRSS</b> 4 NORTH PARK DRIVE HUNT VALLEY, MARYLAND TEL: (410) 785-7220

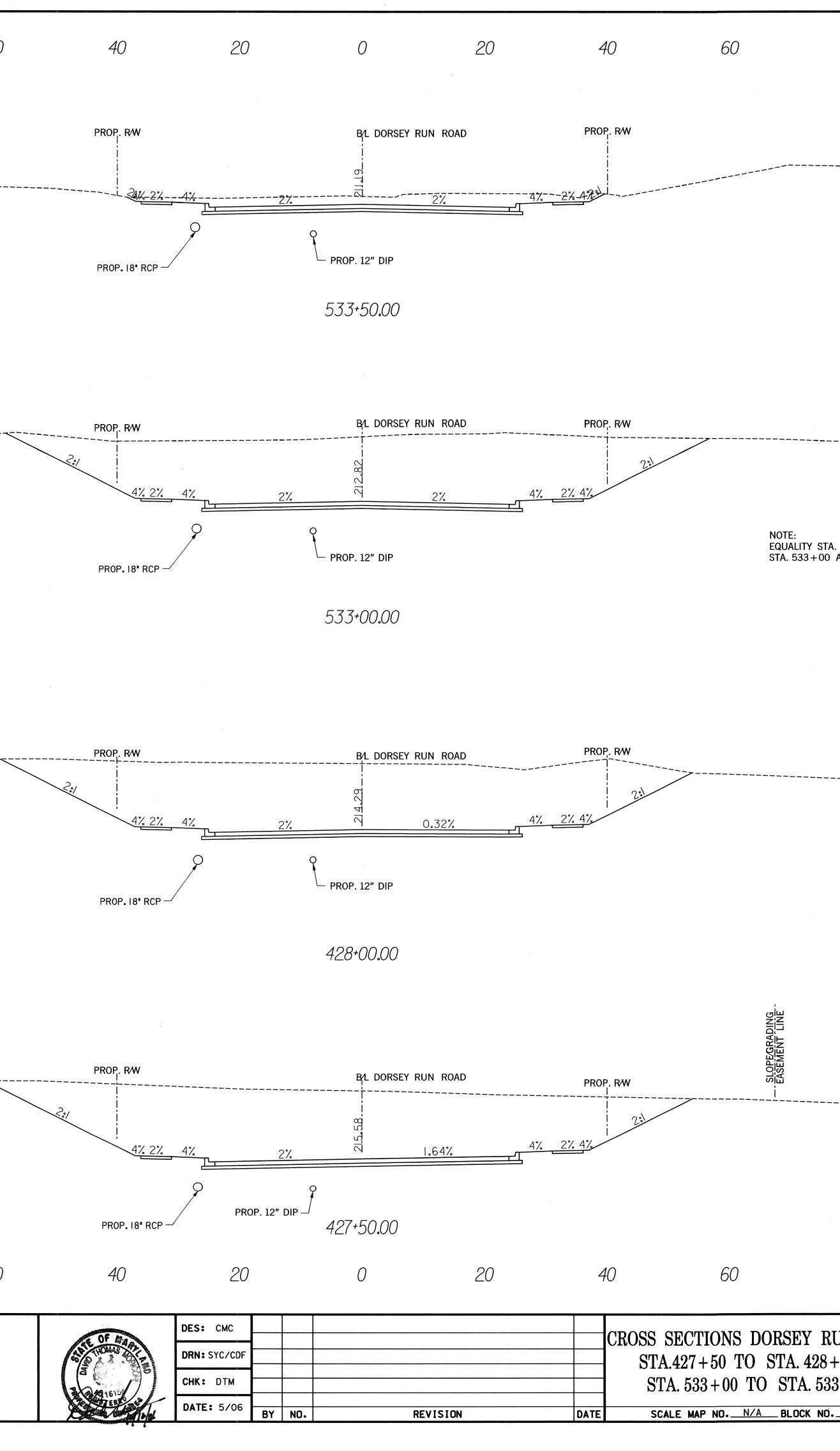


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80 SECTIONS	100 DORSE	120 Y RUN ROAD		17 OF 21 scale
RUN ROAD FO STA. $427 + 00$		MD 175 T RUN INDUSTE ION DISTRICT NO. 1 - J CAPITAL PROJECT J	RIAL CENTER	1"=10' SHEET <u>70</u> 0F_74

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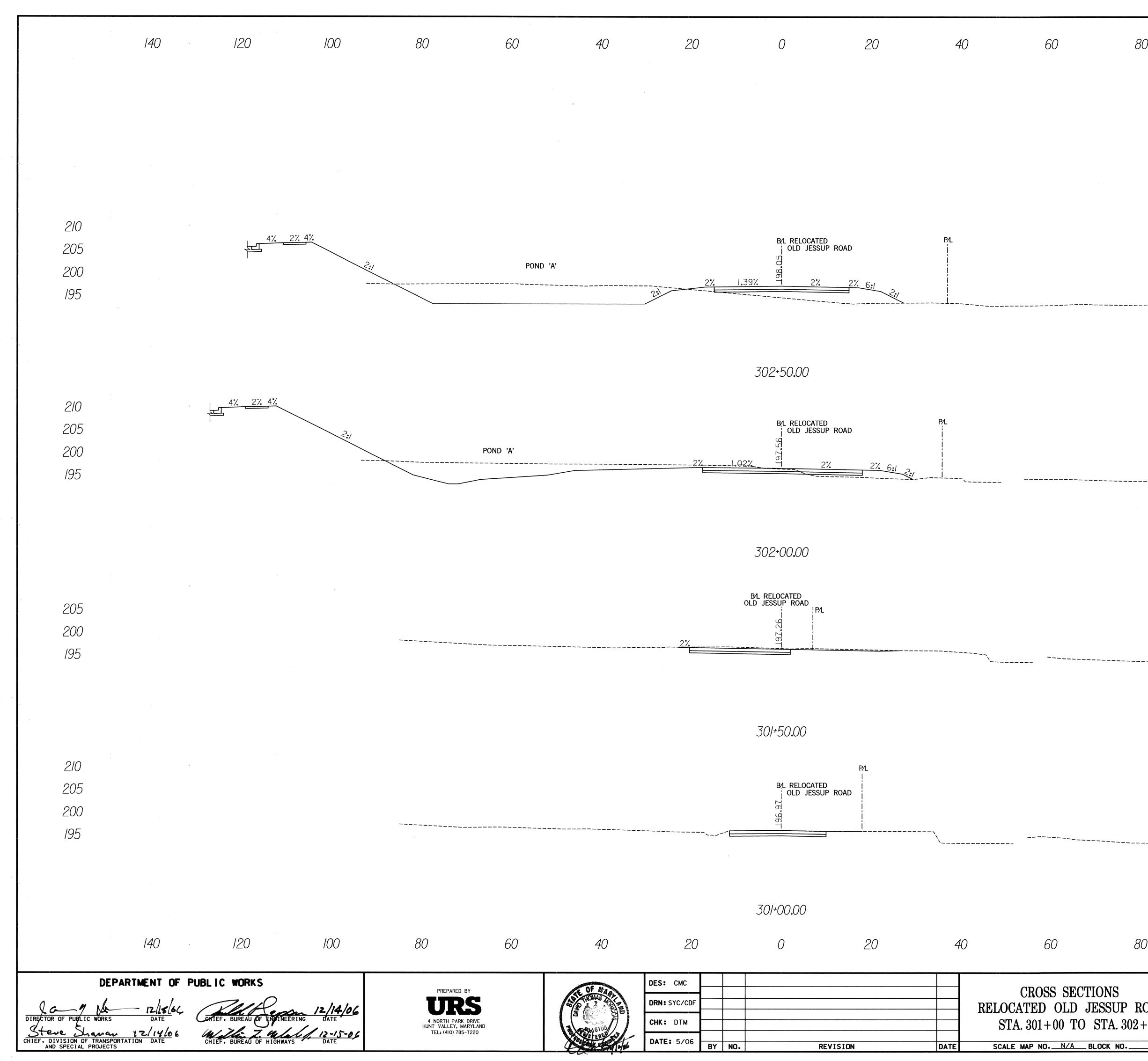
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	n l	PARTMENT OF PU	BLIC WORKS		PREPARED BY	
	TOR OF PUBLIC WORKS	DATE	CHIEF, BUREAU OF ENGL		4 NORTH PARK DRIVE HUNT VALLEY, MARYLAND TEL: (410) 785-7220	
CHIEF.	DIVISION OF TRANSF AND SPECIAL PROJECT	PORTATION DATE	CHIEF, BUREAU OF HIGH	WAYS DATE		



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EQUALITY STA. 428+50 BACK = STA. 533+00 AHEAD					200	
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RSEY RUN ROAD	DORSI	EY RUN RO		TENSION	SCAL	
STA. 428+00 &		MD 175 RUN INDU			R 1″=′	10'
STA. 533 + 50		TION DISTRICT NO.	1 – JESSUF	P, MARYLAND	SHEE 0F	ET 
_BLOCK NO		CAPITAL PROJE	±ui J−414	10 <sup></sup> C		

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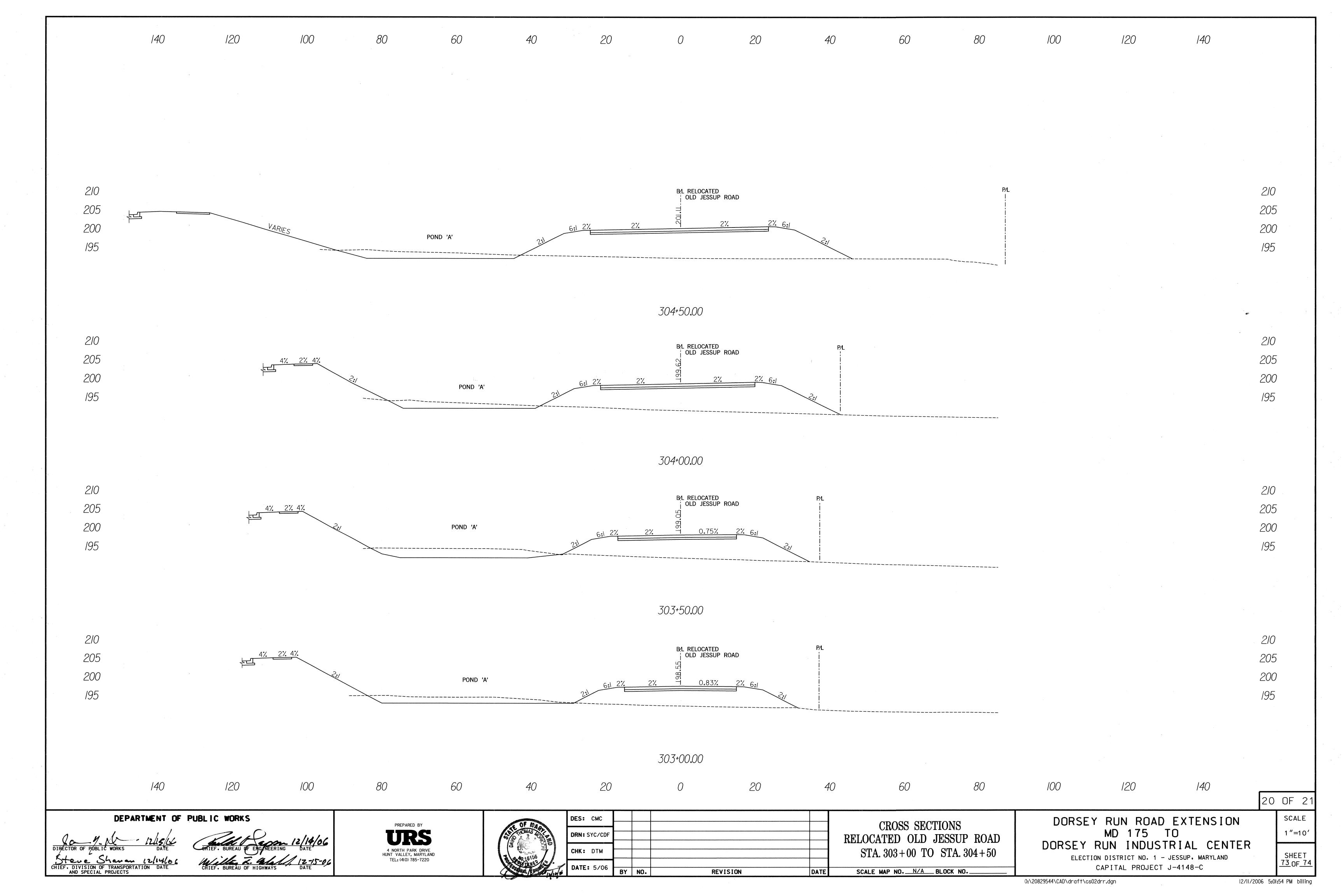


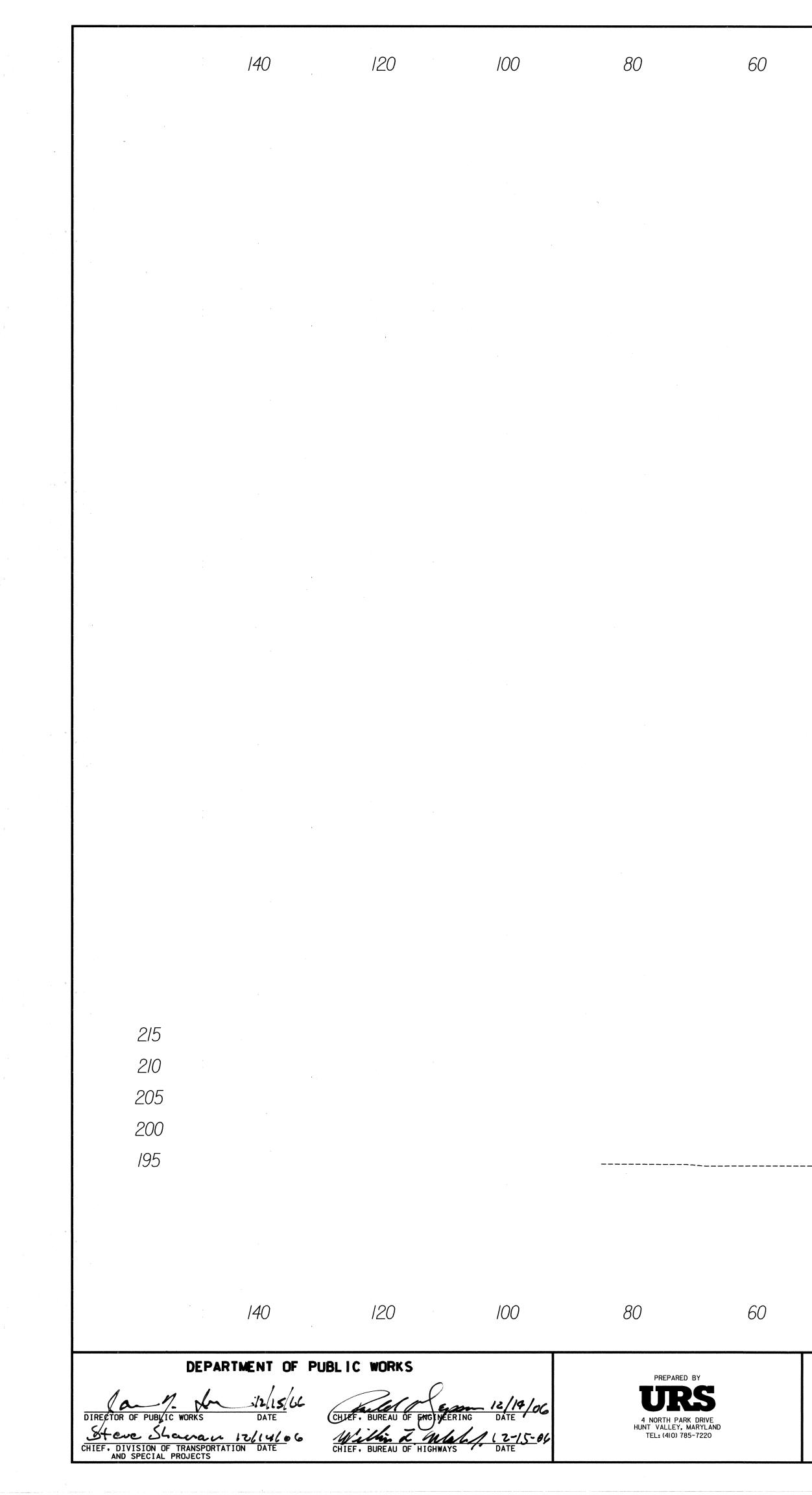
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CTIONS JESSUP ROAD O STA. 302+50	DORSEY	MD 175 RUN INDL	JSTRIAL CE 1 - JESSUP, MARYL	ION	SCALE 1 "=10' SHEET 72 OF 74		
BLOCK NO		CAPITAL PROJECT J-4148-C					

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DES: CMC CROSS SEC' DRN: SYC/CDF STA. 305+ CHK: DTM DATE: 5/06 BY NO. SCALE MAP NO. N/A REVISION DATE

BLOCK NO	0:\20829544\CAD\draft		JECT J-4148-C	12/11/2	2006 5:02:		
TIONS JESSUP ROAD +00	DORSEN	EY RUN RUN RUN MD 175 Y RUN IND	5 TO USTRIAL 1 - JESSUP, MA	CENTER		SCAL 1 "=1 SHEE 74 OF.	10' ET
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