

STATEMENT OF ESTIMATED QUANTITIES

NO.	SPEC. REF.	ITEM	UNIT	QUANTITIES						TOTAL
				S.A.P 204-113-05			S.P. 7106-56			
				GENERAL	STORM SEWER	OTHER	GENERAL	STORM SEWER	MnDOT / CITY 50% / 50%	
1	0563.601	TRAFFIC CONTROL	LS	0.78			0.22		1	
2	2101.511	CLEARING & GRUBBING	LS	1					1	
3	2104.501	REMOVE CURB & GUTTER	LF	410			132		542	
4	2104.501	REMOVE METAL CULVERT	LF		70				170	
5	2104.501	REMOVE CONCRETE CULVERT	LF		75				75	
6	2104.503	REMOVE CONCRETE SIDEWALK	SF	1765			410		2175	
7	2104.505	REMOVE BITUMINOUS PAVEMENT	SY	6732			816		7548	
8	2104.509	REMOVE MANHOLE	EA	1					1	
9	2104.513	SAWING BITUMINOUS PAVEMENT	LF	1269			623		1892	
10	2105.501	COMMON EXCAVATION	CY	3728			445		4173	
11	2105.523	COMMON BORROW (CV) (P)	CY	4202			118		4320	
12	2105.525	TOPSOIL BORROW (CV) (P)	CY	944			405		1349	
13	2112.501	SUBGRADE PREPARATION	RD. STA.	15.93			1.92		17.85	
14	2130.501	WATER	M. GAL.	22			3		25	
15	2211.501	AGGREGATE BASE CLASS 5	TON	4952			1148		6100	
16	2221.501	AGGREGATE SHOULDERING CLASS 2	TON	45					45	
17	2331.508	TYPE 61 WEARING COURSE MIXTURE	TON	685			140		825	
18	2331.510	TYPE 31 BINDER COURSE MIXTURE	TON	807			176		983	
19	2331.514	TYPE 31 BASE COURSE MIXTURE	TON	807			176		983	
20	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL.	980			207		1187	
21	2501.515	15" RC PIPE APRON	EA		2				2	
22	2501.515	18" RC PIPE APRON	EA				2		2	
23	2501.515	24" RC PIPE APRON	EA				1		1	
24	2501.525	28" SPAN RC PIPE ARCH APRON	EA				1		1	
25	2501.561	15" RC PIPE CULVERT DESIGN 3006 CL.III	LF		126				126	
26	2501.561	18" RC PIPE CULVERT DESIGN 3006 CL.III	LF				168		168	
27	2503.521	28" SPAN RC PIPE ARCH SEWER CL.IIA	LF				89		89	
28	2503.541	12" RC PIPE SEWER DESIGN 3006 CL.III	LF		32				32	
29	2503.541	18" RC PIPE SEWER DESIGN 3006 CL.III	LF		344				344	
30	2503.541	24" RC PIPE SEWER DESIGN 3006 CL.III	LF				102		102	
31	2506.501	CONSTRUCT DRAINAGE STRUCTURE DESIGN F	LF	29.48			5.43		40.98	
32	2506.501	CONSTRUCT DRAINAGE STRUCTURE DESIGN H	LF				11.50		11.50	
33	2506.503	RECONSTRUCT STRUCTURE	LF	4.4			5		9.4	
34	2506.516	CASTING ASSEMBLY, MANHOLE	EA		1				1	
35	2506.516	CASTING ASSEMBLY	EA		5		3		8	
36	2506.521	INSTALL CASTING	EA	2	6		1	3	12	
37	2506.522	ADJUST FRAME AND RING CASTING	EA	1			1		2	
38	SPEC	ADJUST GATE VALVE BOX	EA	4					4	
39	2511.501*	RANDOM RIP RAP CLASS III*	CY		8.7				8.7	
40	2521.501	4" CONCRETE WALK	SF	2265			650		2915	
41	2531.501	CONCRETE CURB & GUTTER, B618	LF	3154			688		3842	
42	2531.501	CONCRETE CURB & GUTTER, S518	LF				368		368	
43	0531.602	PEDESTRIAN CURB RAMP	EA				14		14	
44	2531.503	CONCRETE MEDIAN	SY	410			323		733	
45	2531.507	6" CONCRETE DRIVEWAY APRON	SY	27			27		27	
46	SPEC	REMOVE & RECONSTRUCT HANDICAP RAMP & RAILING	LS	1					1	
47	2564.531	FURNISH & INSTALL SIGN PANELS TYPE C	SF	203.75			35.8		239.55	
48	2104.523	SALVAGE SIGNS TYPE C	EA	6					6	
49	0564.602	INSTALL SIGNS TYPE C	EA	6					6	
50	SPEC	STRIPING	SF	0.72			0.28		1	
51	SPEC	CROSSWALK PANELS	SF				1296		1296	
52	0565.604	REVISE SIGNAL SYSTEM	SYSTEM				1		1	
53	0565.604	TEMPORARY SIGNAL SYSTEM	SYSTEM				1		1	
54	2573.501	BALE CHECK	EA	7			14		21	
55	2575.503	SODDING, LAWN & BOULEVARD	SY	4170			1832		6002	
56	2575.555	TURF ESTABLISHMENT	LS	0.72			0.28		1	
57	SPEC	PROCTOR TEST	EA			4			4	
58	SPEC	DENSITY TEST	EA			23			23	
59	SPEC	GRADATION TEST, AGGREGATE	EA			3			3	
60	SPEC	EXTRACTION TEST	EA			6			6	
61	SPEC	GRADATION TEST, BITUMINOUS	EA			6			6	

* GRANULAR OR GEOTEXTILE FILTER MATERIAL WILL BE CONSIDERED INCIDENTAL TO RIPRAP CONSTRUCTION AND NO DIRECT COMPENSATION WILL BE MADE THEREFOR.

THE FOLLOWING STANDARD PLATES, AS APPROVED BY THE FHWA SHALL APPLY:

PLATE NO.	DESCRIPTION
0005A	SPECIFICATION REFERENCE TO STANDARD PLATE, 1988
3000L	REINFORCED CONCRETE PIPE
3006F	GASKET JOINT FOR RC PIPE
3014J	REINFORCED CONCRETE PIPE ARCH DETAIL
3040F	CORRUGATED METAL PIPE CULVERT
3100G	CONCRETE APRON FOR FOR REINFORCED CONCRETE PIPE
3133B	RIP RAP AT RC PIPE OUTLETS
3145E	CONCRETE PIPE TIES
3221C	CORRUGATED STEEL PIPE COUPLING BAND
4005K	MANHOLE OR CATCH BASIN
4006K	MANHOLE OR CATCH BASIN
4010G	CONCRETE SHORT CONE AND ADJUSTING RING
4011D	PRECAST CONCRETE BASE
4020E	MANHOLE OR CATCH BASIN
4101C	RING CASTING FOR MANHOLE OR CATCH BASIN
4108E	MANHOLE ADJUSTING RINGS
4126E	CATCH BASIN FRAME CASTING
4149C	GRATE CASTING FOR CATCH BASIN
4161F	CURB BOX CASTING FOR CATCH BASIN
7035J	CONCRETE WALK & CURB RETURNS AT ENTRANCES
7036D	PEDESTRIAN CURB RAMP
7100F	CONCRETE CURB AND GUTTER
7110E	CURB AND GUTTER CONSTRUCTION AT CATCH BASIN
8000I	STANDARD BARRICADES
9102C	SODDING AT PIPE CULVERT ENDS
8110C	TRAFFIC SIGNAL BRACKETING - POLE MOUNTED
8111B	TRAFFIC SIGNAL BRACKETING - PEDESTAL MOUNTED
8112C	PEDESTAL FOUNDATION
8115C	PEDESTRIAN PUSHBUTTON INSTALLATION
8118C	SERVICE EQUIPMENT & POLE TRAFFIC CONTROL SIGNALS
8119C	GROUND MOUNTED CABINET FOUNDATION
8121B	TRANSFORMER BASE W/POLE BASE PLATE
8122C	PEDESTAL & PEDESTAL BASE
8123B	POLE & MAST ARM
8124D	MAST ARM SIGNAL HEAD MOUNTS
8126C	P-100 POLE FOUNDATION
8130D	SAW CUT LOOP DETECTORS

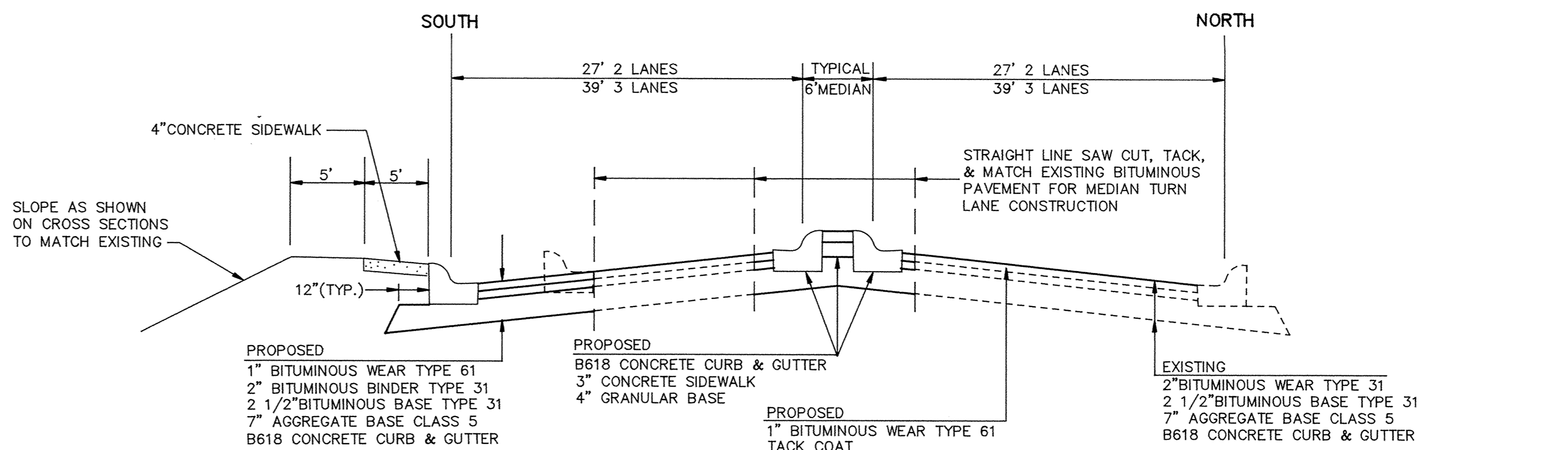
BASIS OF ESTIMATED QUANTITIES

AGGREGATE BASE, CLASS 5:
COMPACTED DRY DENSITY 1.86 TON/C.Y.

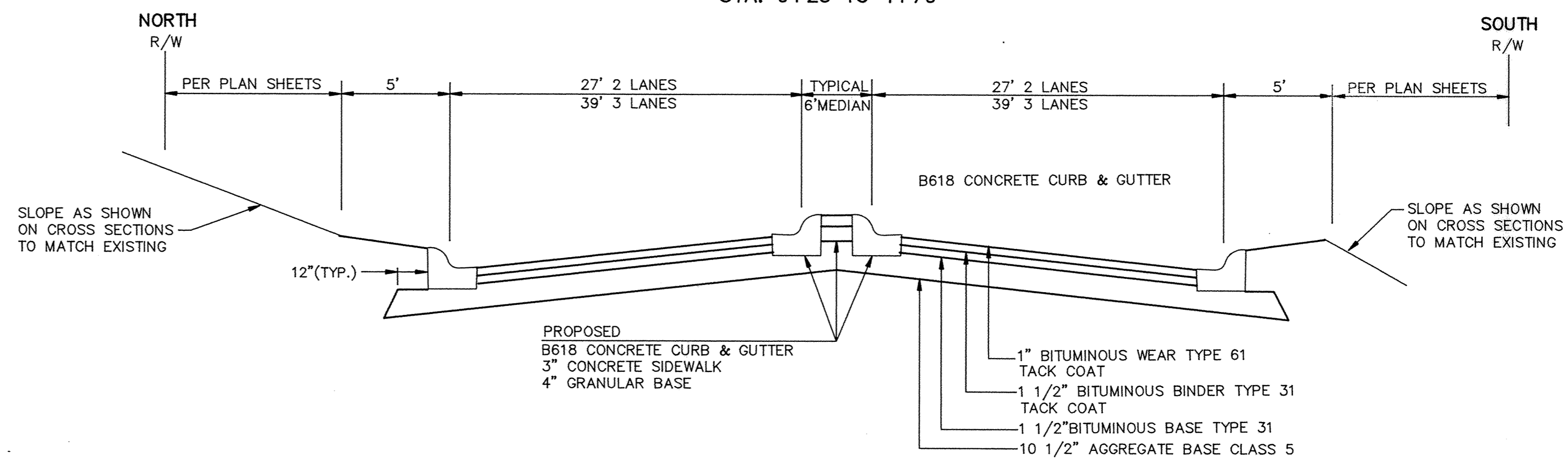
TYPE 31 BITUMINOUS BASE/BINDER COURSE:
BITUMINOUS MATERIAL - 5.3% OF MIXTURE BY WEIGHT
BITUMINOUS MIXTURE - 1.98 TON/C.Y.

TYPE 61 BITUMINOUS WEAR COURSE:
BITUMINOUS MATERIAL - 6.1% BY WEIGHT
BITUMINOUS MIXTURE - 1.98 TON/C.Y.

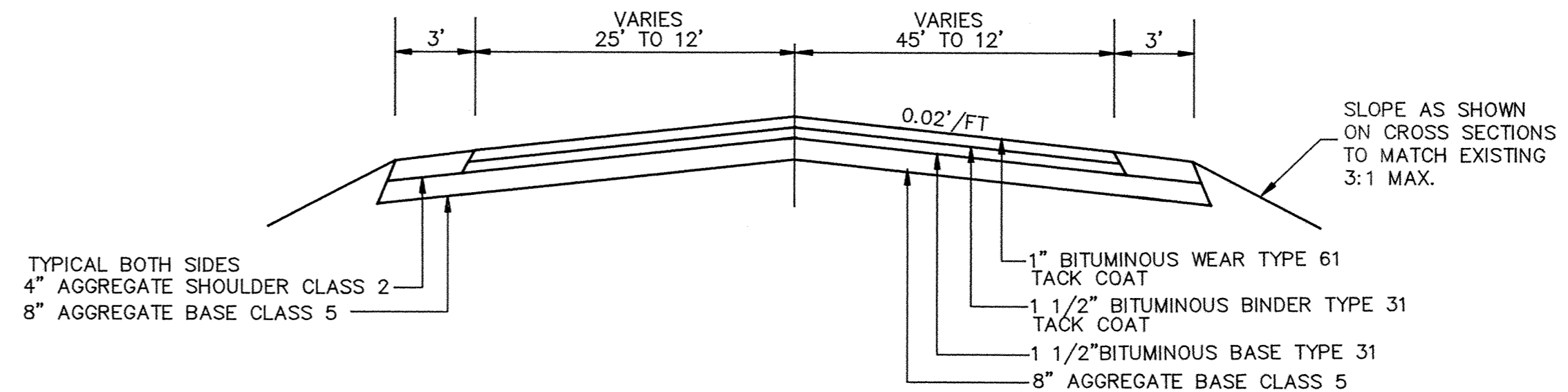
BITUMINOUS TACK COAT:
0.05 GAL./S.Y.



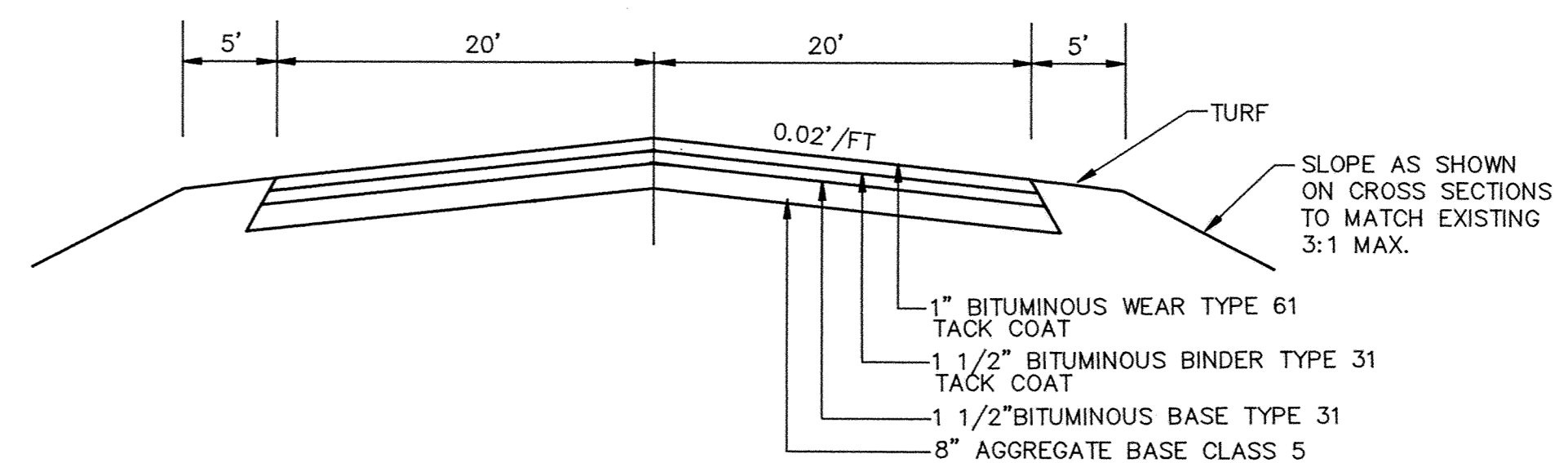
STREET SECTION WEST SIDE OF TH 169
STA. 0+25 TO 4+70



STREET SECTION EAST OF TH 169 & MEDIAN
STA. 1+10 TO 8+00



STREET SECTION COUNTY ROAD 12 & SERVICE ROAD
STA. 8+00 TO 10+50



STREET SECTION COUNTY ROAD 13
STA. 0+25 TO 2+92

RECORD PLAN
JUNE 1994

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Paul Butcher
DATE 4-3-92 REG. NO. 13929

CONSULTING ENGINEERS
Maier Stewart & Associates Inc.
9800 SHELARD PARKWAY (612) 546-0432 MINNEAPOLIS, MINNESOTA 55441
1959 SLOAN PLACE (612) 774-6021 ST. PAUL, MINNESOTA 55117

DATE	DESCRIPTION	DESIGNED	PEB
4/3/92	PLANS ENGINEER COMMENTS	CHECKED	JEJ
		DRAWN	GG
		GRAPHIC SCALE	NONE
		HORIZ.	
		VERT.	

CITY OF ELK RIVER STREET CONSTRUCTION MAIN STREET AT TH 169 ESTIMATED QUANTITIES & DETAILS S.A.P. 204-113-05			
DATE	MARCH, 1991	SHEET	2 OF 17 SHEETS
PROJECT NO.	230-099		