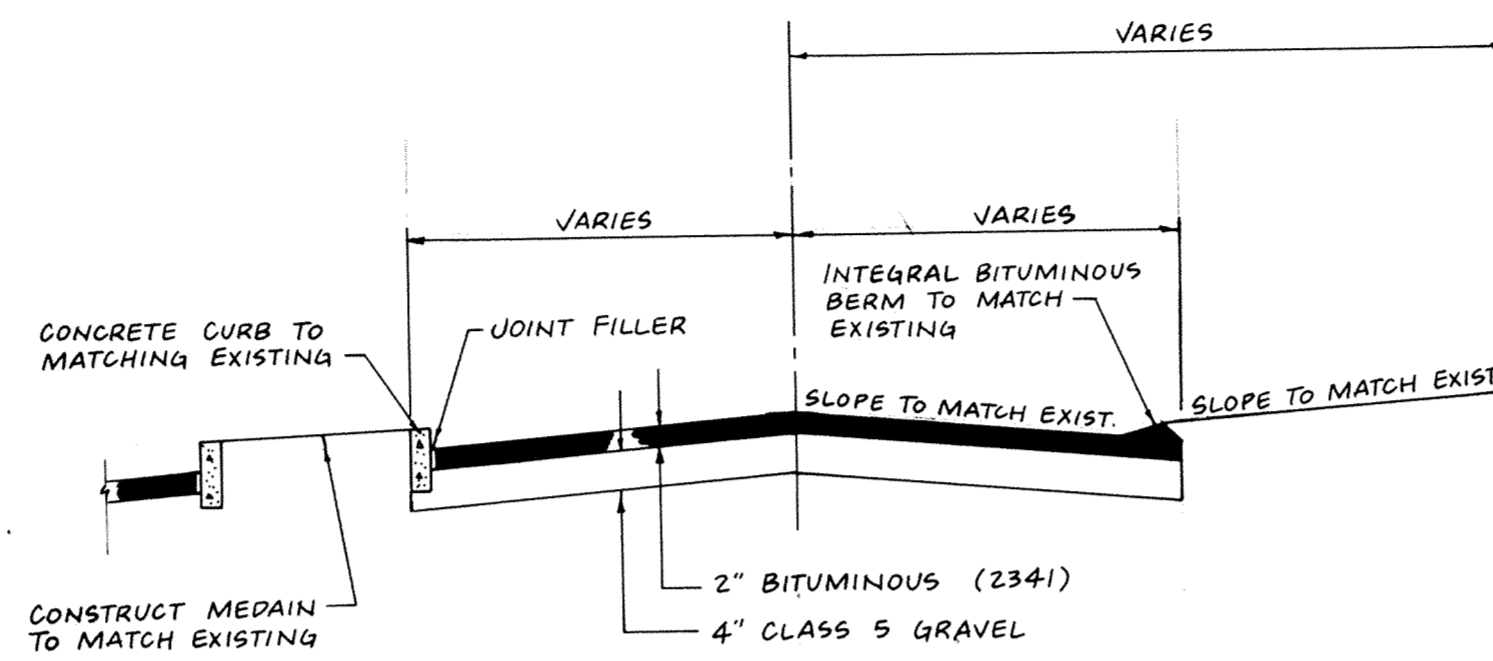


The statement of Estimated Quantities reflects only those portions of the project which are fundable by Municipal State Aid Construction Funds. For a complete summary of estimated quantities see the Bid Proposal in the specification.

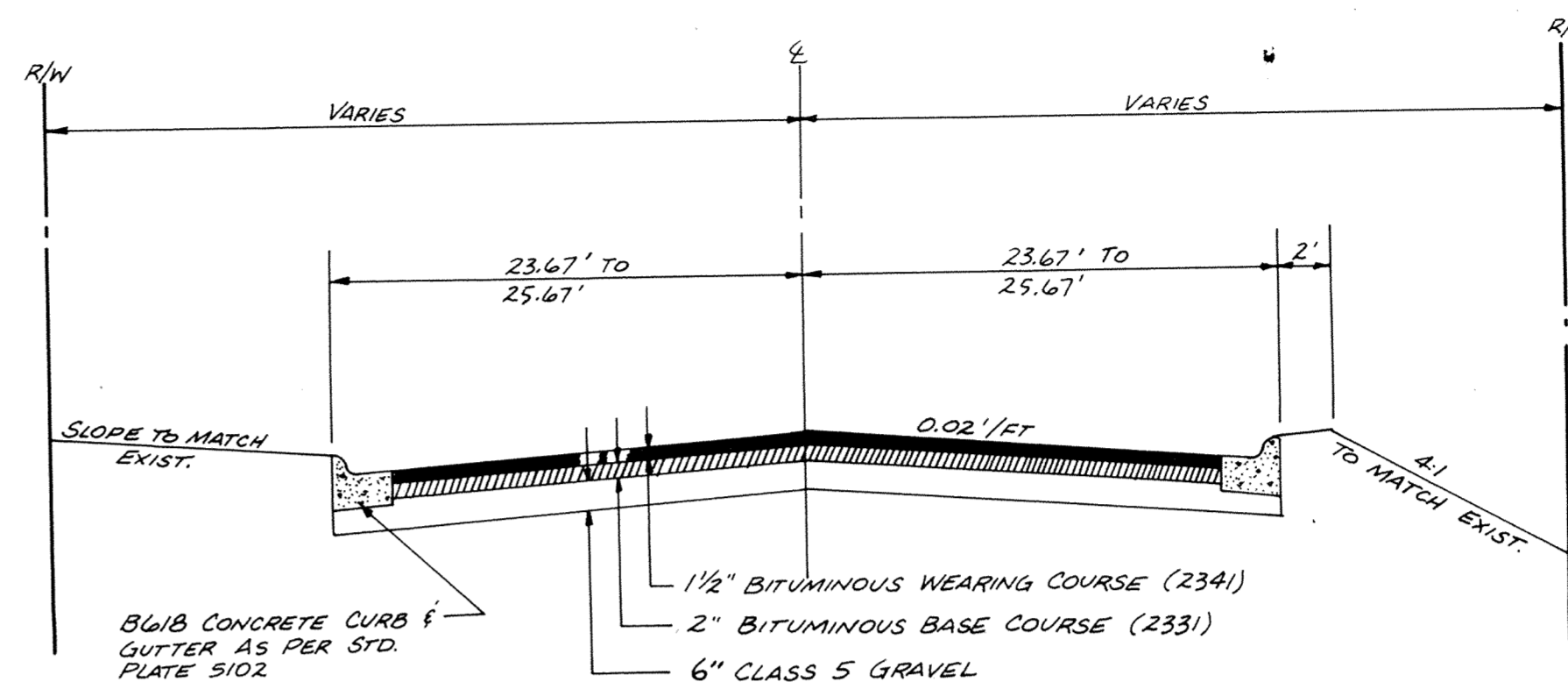
STATEMENT OF ESTIMATED QUANTITIES				
Specification	Item	Unit	Quantity	
			SAP	Other
2101.502	Clearing	Tree	15	
2101.507	Grubbing	Tree	15	
2571.541	Transplant Trees	Tree	5	5
2571.544	Transplant Shrubs	Tree		
2105.501	Common Excavation	CY	15000	
2331.502	Concrete Curb & Gutter	LF	6700	
Spec.	Water (Dust Control)	(M) Gallons	100	
Spec.	Concrete Driveway Apron	SF	900	
Spec.	Concrete Valley Gutter	SF	270	
Spec.	Triangular V Gutter Sections	Each	6	
Spec.	Concrete Driveway Pavement	SY	40	
Spec.	Bituminous Driveway Pavement	SY	170	
Spec.	Aggregate Base (Class 5)	Ton	6020	
2211.501	Bituminous Surfacing (2331)	Ton	1950	
2331.508	Bituminous Surfacing (2341)	Ton	1460	
2341.508	Bitum. Material for Mixt. (2331)	Ton	98	
2331.504	Bitum. Material for Mixt. (2341)	Ton	88	
2341.504	Bitum. Tack Coat	Gallon	875	
2357.502	Adjust Existing Valves	Each	3	
Spec.	Adjust Existing Manhole	Each	6	
Spec.	Reconstruct Existing Manhole	LF	10	
Spec.	Sodding	SY	2700	
2575.505	Seeding	SY	4500	
2575.505	Relocate Existing Hydrant	Each	1	
Spec.	Bituminous Street Restoration	SY	1400	
Spec.	Remove & Relocate Exist. Signs	Each	4	
Spec.	Sign Panels	SF	42	
Spec.	18" White Stop Bar	LF	50	
Spec.	4" Yellow Pavement Line	LF	3700	
Spec.	6" White Pavement Line	LF	3500	
Spec.	White Arrow	Each	6	
Spec.	4" White Centerline	LF	1000	
Spec.	8" Pipe 10-12'	LF	345	
Spec.	Standard Manhole	Each	2	
Spec.	Extra Depth Manhole	LF	1	
Spec.	4" Service Connection (Wye)	Each	5	
Spec.	4" Service Pipe	LF	100	
Spec.	Granular Foundation	Ton	20	
Spec.	Air Test Sewer Line	LF	345	
Spec.	Connect to Existing MH	Each	1	
2503.511	18" RCP Cl. III	LF	161	
2503.511	21" RCP Cl. III	LF	385	
2503.511	24" RCP Cl. III	LF	70	
2503.511	30" RCP Cl. III	LF	205	
2503.511	36" RCP Cl. III	LF	1005	
2503.511	42" RCP Cl. III	LF	790	
2503.511	54" RCP Cl. III	LF	1838	
2506.508	48" Manhole	Each	5	
2506.506	Extra Depth 48" MH	LF	13	
2506.508	54" Manhole	Each	3	
2506.506	Extra Depth 54" MH	LF	26	
2506.508	72" Manhole	Each	6	
2506.506	Extra Depth 72" MH	LF	3	
Spec.	Tee Section Manhole	Each	2	
2506.508	84" Manhole	Each	2	
2506.506	Extra Depth 84" MH	LF	12	
2506.508	108" Manhole	Each	2	
2506.506	Extra Depth 108" MH	LF	8	
2506.509	Catch Basin	Each	4	
2503.511	Jack 54" RCP	LF	195	
Spec.	Connect to Exist. 30" RCP	Each	1	
2501.515	21" Flared End Section	Each	1	
2501.515	54" Flared End Section	Each	1	
Spec.	Grouted Rip Rap	SY	58	
Spec.	Bituminous Restoration	SY	1400	
Spec.	Granular Foundation	Ton	250	
Spec.	Seeding	SY	600	

NON-PARTICIPATING



NOTE: RESTORATION SHALL BE LIMITED TO THE MINIMUM REQUIRED FOR PROPOSED CONSTRUCTION.

TYPICAL STREET RESTORATION SECTION



TYPICAL STREET SECTION (GATES AVENUE)

STORM SEWER STRUCTURES

- NON-INLET CASTINGS: MANHOLE # 1,2,3,4,5,6, 7, 10, 11, 19, 20, & 21
- INLET CASTINGS: MANHOLE # 8,9,12,13,14,15,16, 17 & 18
- CATCH BASIN # 1-8

GENERAL WATERMAIN NOTES

- All watermain shall have 7.5' minimum cover unless noted otherwise.
- Maintain 10' minimum horizontal separation between watermain and sanitary sewer.
- Maintain 18" minimum vertical separation between sanitary and watermain where they cross.
- All service connections shall be tapped under pressure.

General Construction Notes

- Remove portions of bituminous and concrete driveways necessary to construct aprons.
- Proposed driveway openings and locations shall be determined by the engineer in the field prior to construction.
- Straight line cut, tack and match all connections to existing bituminous.
- Contractor shall be responsible for location of all existing utilities prior to construction.
- Contractor shall be responsible for maintaining utility services during construction.
- Removal and replacement of all trees and landscape items shall be as directed by the engineer or as per special provision of the specification.
- All street radii shall be 25' unless otherwise noted.
- Stationing refers to street centerline.
- All concrete curb elevations shown are to top of curb unless otherwise shown.
- All storm drainage inlet castings shall be R-3250A unless noted otherwise.
- All non-inlet castings shall be R-1733.
- All storm sewer and watermain crossings with vertical separation of less than 2' shall be insulated with 2" styrofoam in each direction. This work shall be incidental.

AS-BUILT

DRAWN BY: MRZ Date 12-26-89
 CHECKED BY:
 INSPECTOR: CH Date 2-1-95
 DESIGN ENGR: Date 2-1-95
 PARTY CHIEF: SS Date 2-1-95

SAP 204-124-01

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 State of Minn. Statutes Sections 326.02 to 326.16.
 Terry O. Maurer
 Date 3/1/83 Minn. Reg. No. 15314

consulting engineers diversified inc. ED
 p.o. box j, osseo, minnesota 55389 • (612) 425-2181

DESIGNED BY: J.M.
 CHECKED BY:
 SCALE: NONE
 DRAWN BY: MRJ
 REVISIONS:

CITY OF ELK RIVER
 ESTIMATED QUANTITIES & STREET SECTION

DATE: FEB 1983
 SHEETS: 2 OF 27
 FILE NO: ER31102 ER602128

DRAWING NUMBER GATES:83 2