ITEM 9.D.

MOORPARK CITY COUNCIL
AGENDA REPORT

TO: **Honorable City Council**

FROM: **Dave Klotzle, City Engineer/Public Works Director** KP
Prepared by: Al Gali, Assistant Engineer AG

DATE: **May 23, 2012 (CC Meeting of 06/06/12)**

SUBJECT: **Consider Plans and Specifications and Authorization to Advertise for Bids for 2012 Pavement Rehabilitation (Project 8002)**

BACKGROUND

One method the City uses for pavement maintenance is the periodic application of a protective slurry seal onto the pavement surface of residential streets in the City. The program's objective is to maintain a bi-annual program (construct a project every other year) in which each project addresses approximately one-third of the residential streets in the City. Therefore, every residential street in the City should be slurry sealed once every six (6) years. The last program was constructed in FY 2009/10.

DISCUSSION

A. Scope of Work

The proposed project will include two types of pavement rehabilitation: a) Type II Slurry for some streets, and b) an Asphalt Rubber Aggregate Membrane (ARAM) surface for others. The slurry seal portion of the project will include sealing of existing cracks where required, the application of Type II Slurry and the re-striping of all affected streets subsequent to the application of slurry seal.

The ARAM pavement surface is a type of a cape seal requiring four steps: A) sealing of existing cracks where required, followed by B) the application of an asphalt-rubber binder which is sprayed onto the existing pavement, followed immediately by C) the spreading of a pre-coated rubber/gravel aggregate which is then "rubber-tire" rolled and embedded into the asphalt-rubber binder, followed several days later by D) a Type II Slurry Seal. The asphalt-rubber binder includes

material from recycled tires. An ARAM pavement surface is typically used to improve deteriorated pavement at a lower cost than the traditional asphalt overlay or pavement reconstruction.

Manhole and water valve covers will be adjusted to the new pavement surface as required. An agreement between the City and Ventura County Waterworks District No. 1 provides that the District will reimburse the City for the costs to adjust their sewer manholes and water valve covers.

The streets included in the 2012 Pavement Rehabilitation Project are shown on the maps (Attachment 1) and listed in the charts (Attachment 2). Staff has prepared final Plans and Specifications for the subject project, a copy of which has been placed on top of the file cabinet in the City Council Conference Room.

B. Project Schedule

The anticipated project schedule is as follows:

Advertise for Bids	06/12/2012
Bid Opening	07/10/2012
Award of Construction Contract	07/18/2012
Notice to Proceed	08/06/2012
Project Completion	09/30/2012

FISCAL IMPACT

The estimated project costs are summarized as follows:

Design (In-House)	$ 0.00
Construction	$ 775,000
Inspection & Testing	$ 50,000
Total	$ 825,000

The FY 2011/12 Capital Improvements Budget adopted by City Council includes $407,230 for the construction of the 2012 Pavement Rehabilitation improvements. Additional funds for construction, inspection and testing are being appropriated in the proposed FY 2012/13 Capital Improvements Budget as well as carryover of the $407,230 from FY 2011/12.

The proposed project funding is summarized as follows:

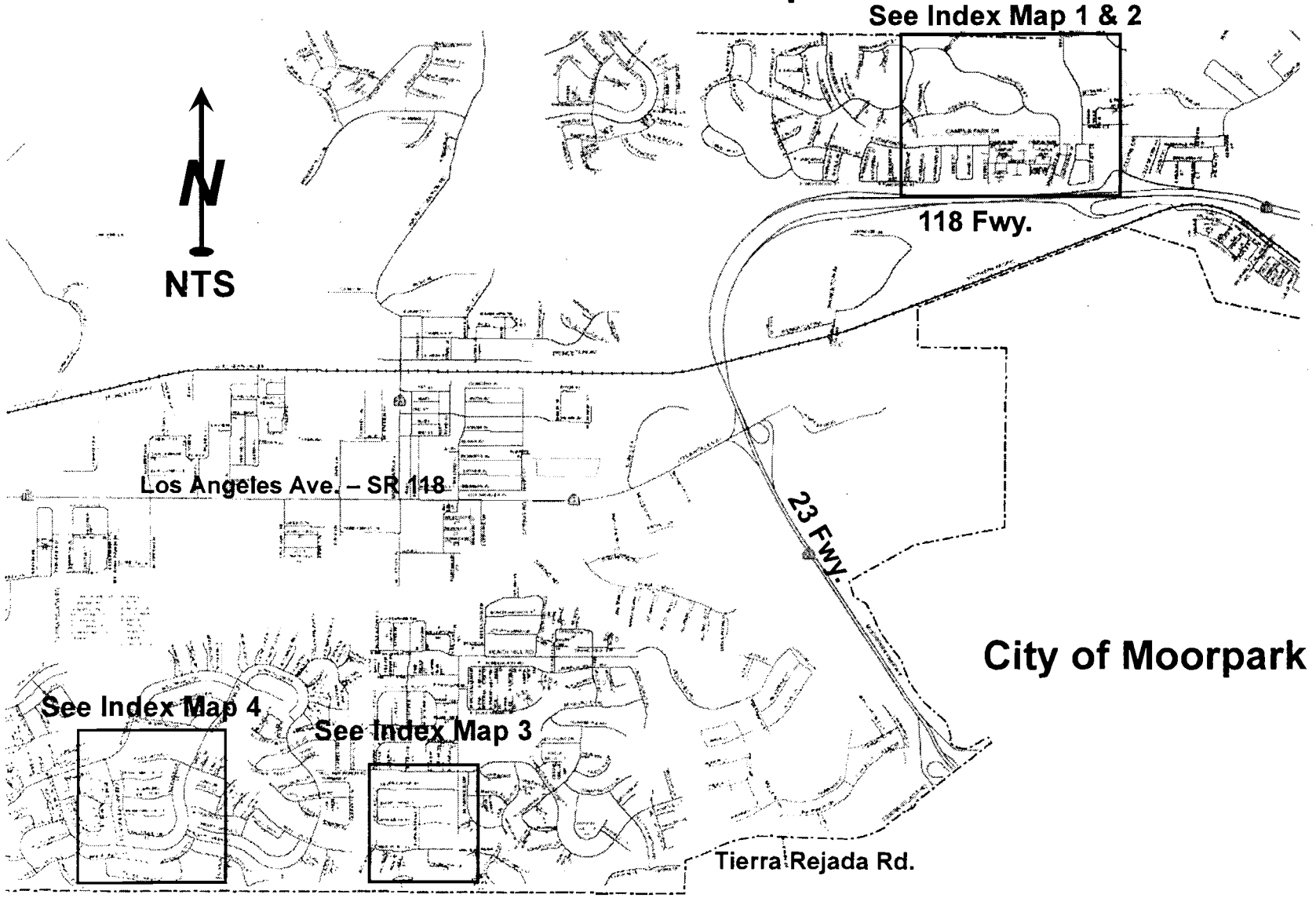
Fund	Current FY 11/12 Budget ($)	Proposed FY 12/13 Budget ($)
2606: HUTA		363,770.00
2609: CIWMB Recycled Tire Grant		54,000.00
2610: Prop 42 - Traffic Congest. Relief	405,435.00	
2611: Prop 1B - Streets & Roads	1,795.00	
Subtotal	407,230.00	417,770.00
Total Budget		825,000.00

STAFF RECOMMENDATION

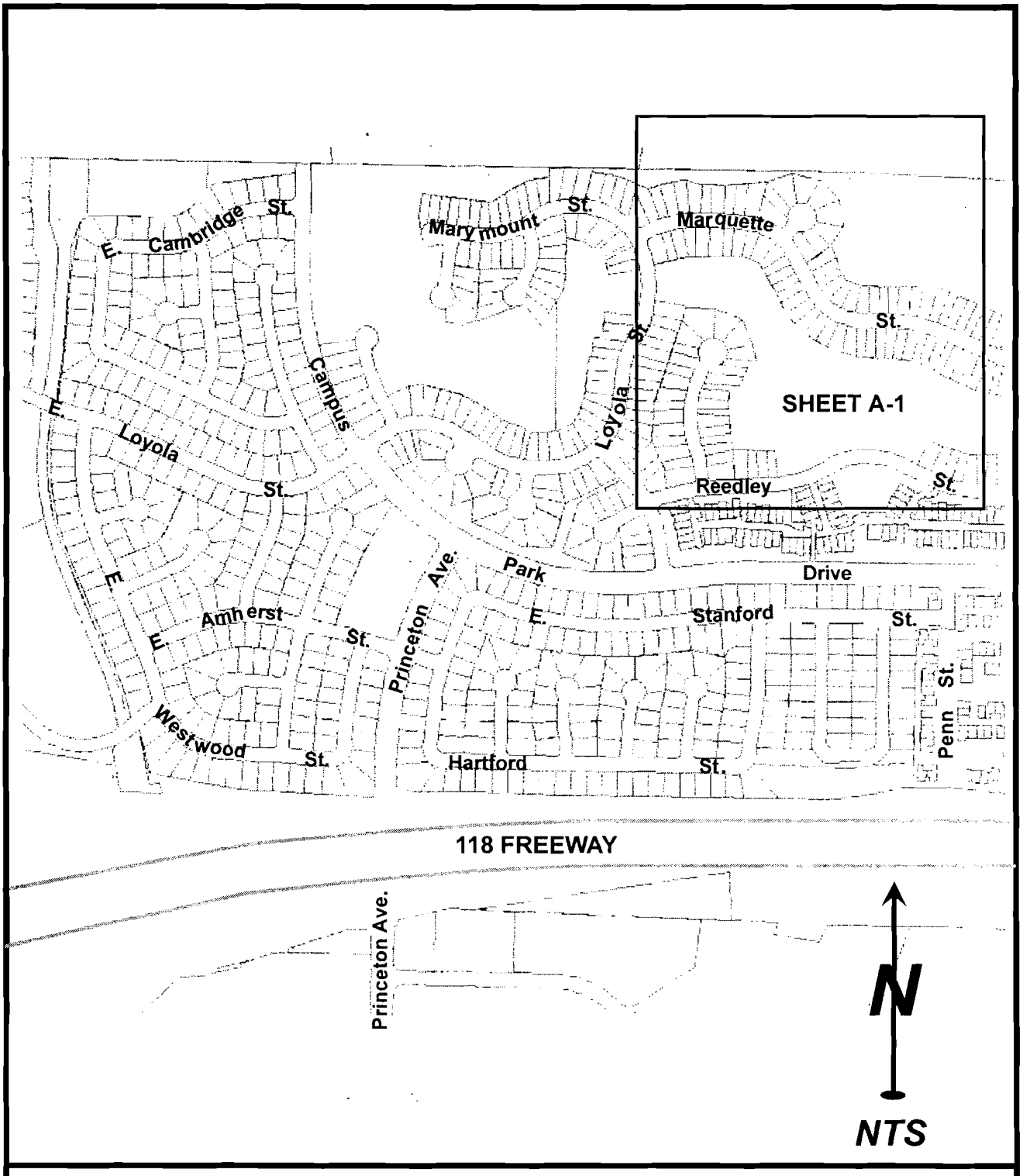
Approve the plans and specifications for the subject project and authorize staff to advertise for construction bids.

Attachments:
1 – Pavement Rehabilitation Location Maps
2 – List of Streets

MPK 12-02 -- 2012 Pavement Rehabilitation Project
Location Map



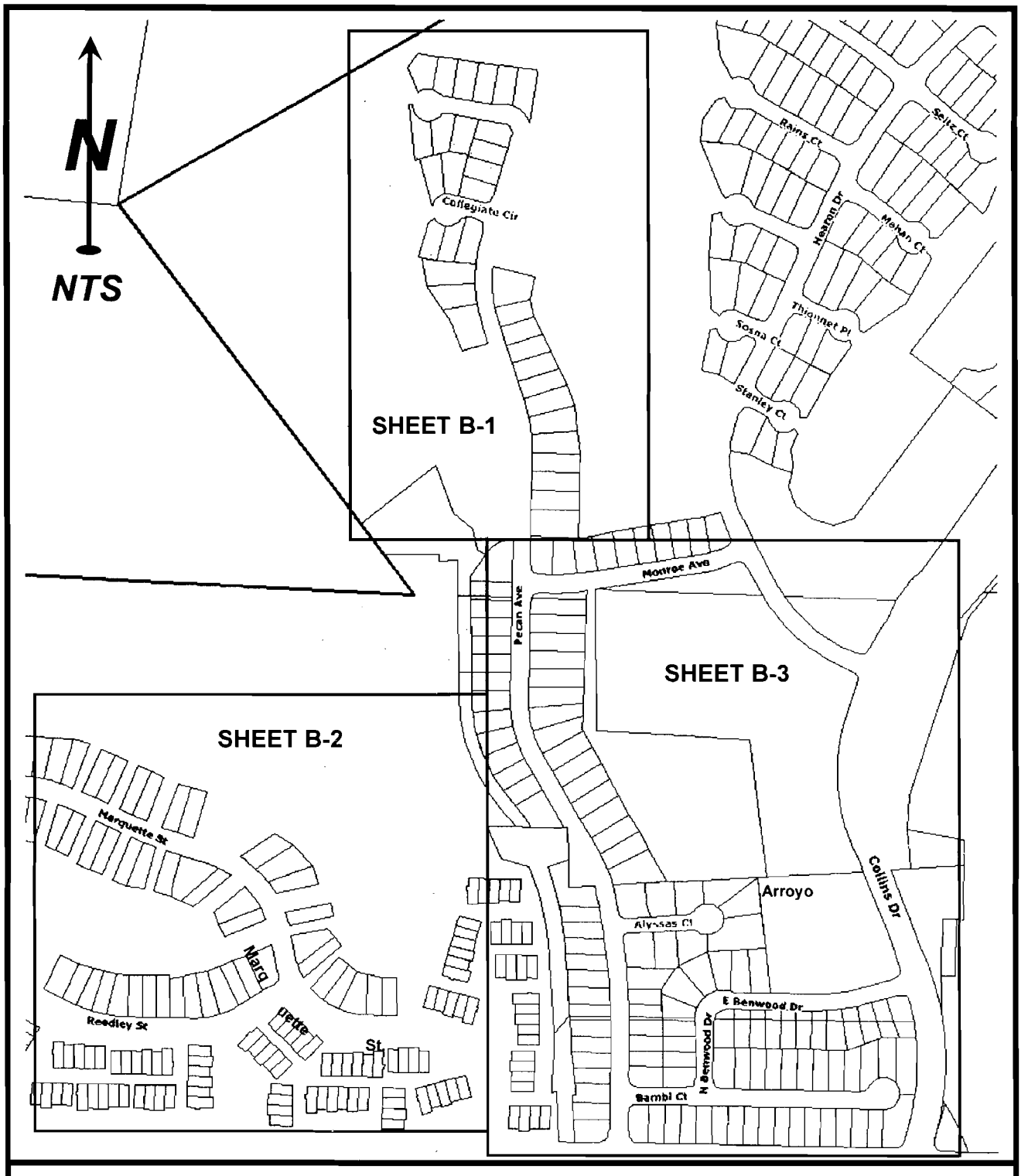
MPK 12-02 -- 2012 Pavement Rehabilitation Project



INDEX MAP 1

Thomas Guide 476-H6, J6

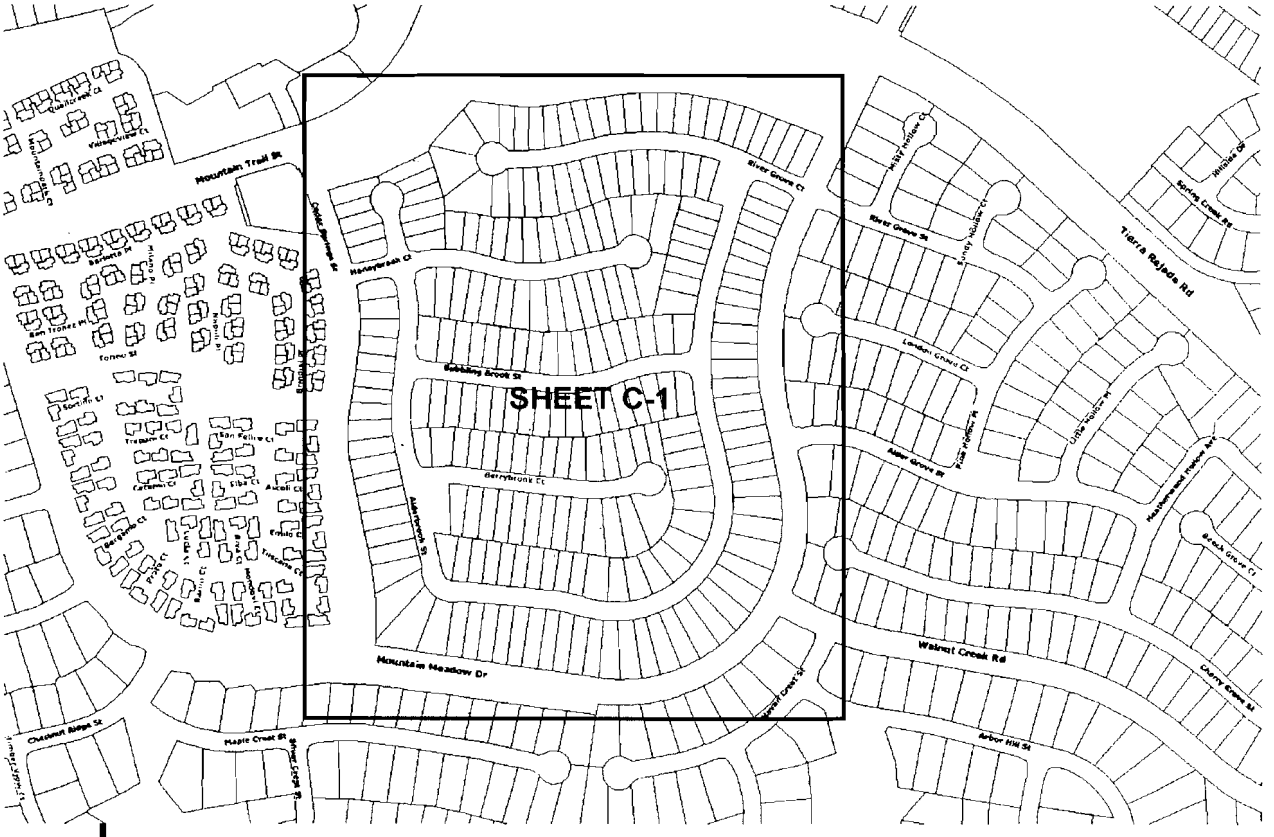
MPK 12-02 -- 2012 Pavement Rehabilitation Project



INDEX MAP 2

Thomas Guide 477-J5

MPK 12-02 -- 2012 Pavement Rehabilitation Project



N

NTS

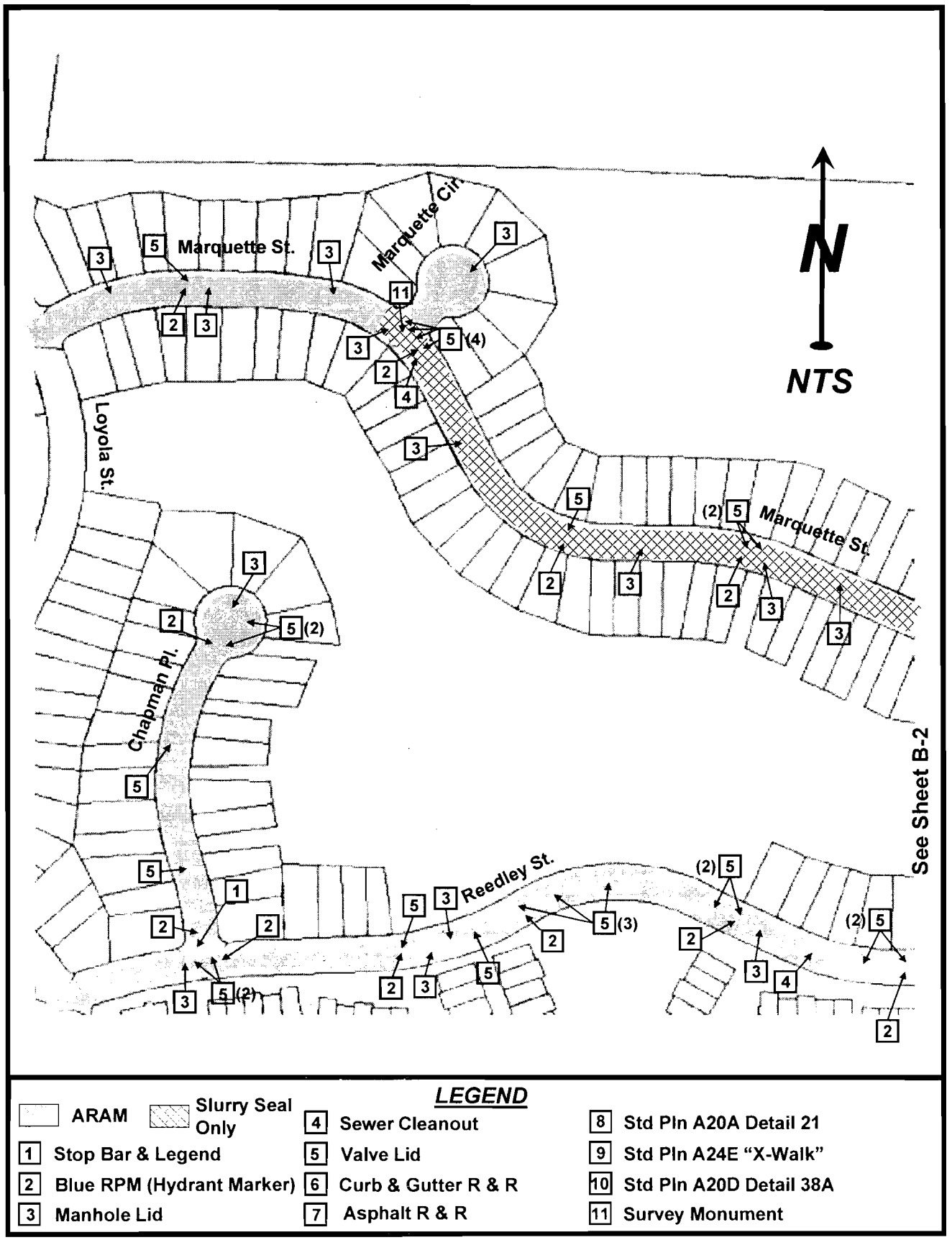
INDEX MAP 3

Thomas Guide 496-C3, C4, D3, D4

MPK 12-02 -- 2012 Pavement Rehabilitation Project

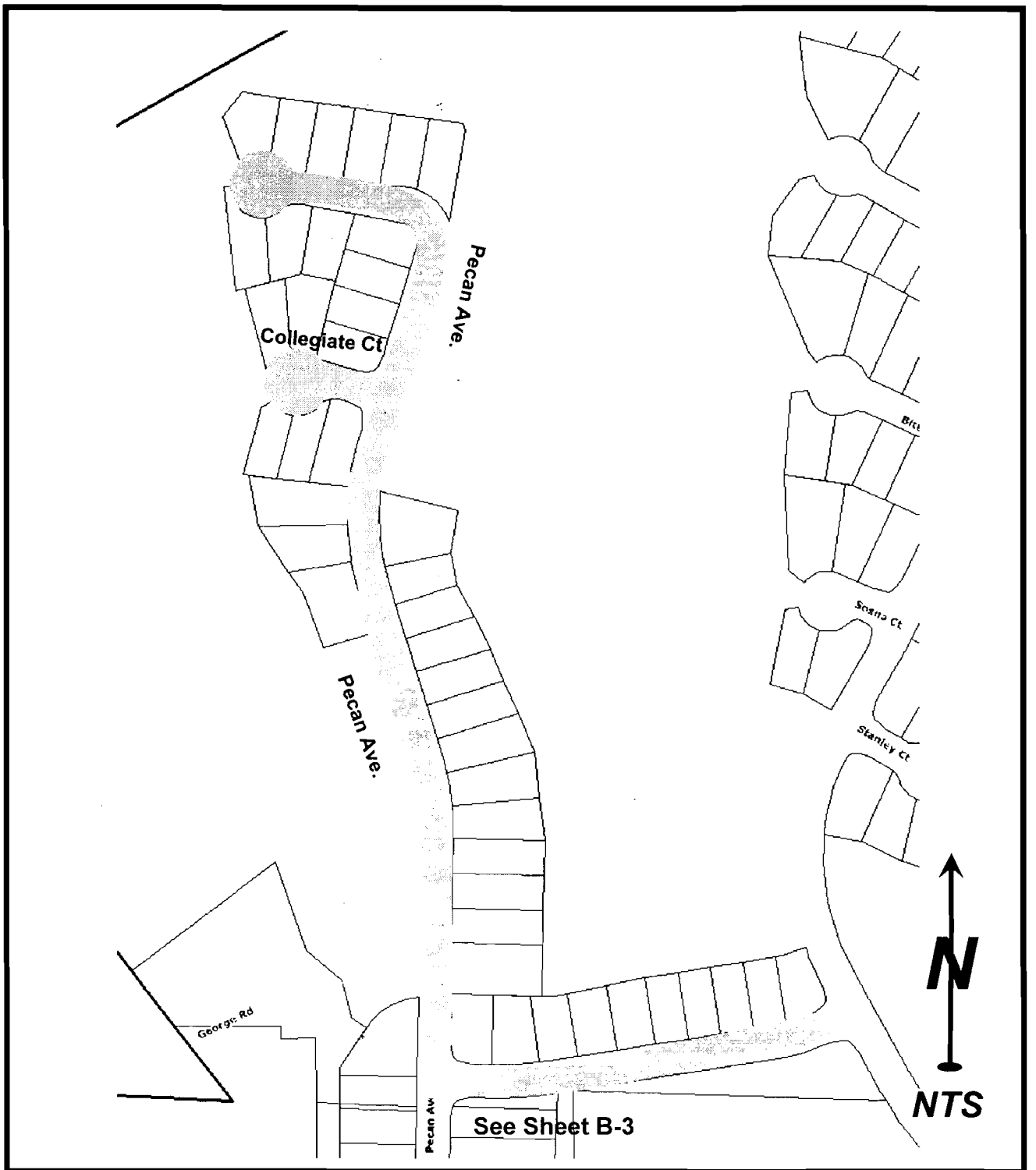
SHEET D-1
Williams Ranch Rd
Silver Creek St
Sleepy Wind St
View Moon St
Westport St
Tierra Rejada Rd
Peach Hill Rd
Winter Ave
Skinner St
Grand Ranch Rd
Walnut Creek Rd
Ambassador St
Ingersoll Ave
Clearview Cir
Cedar Creek Ln
Cedar Creek Cir
Sunset Cir
Thousand Oaks Cir
Sunset Ln
Sunset Cir
Thousand Oaks Ln
Thousand Oaks Cir
Sunset Ln
Sunset Cir
Sunset Ln
Sunset Cir
Sunset Ln
Sunset

MPK 12-02 -- 2012 Pavement Rehabilitation Project



Sheet A-1

MPK 12-02 -- 2012 Pavement Rehabilitation Project

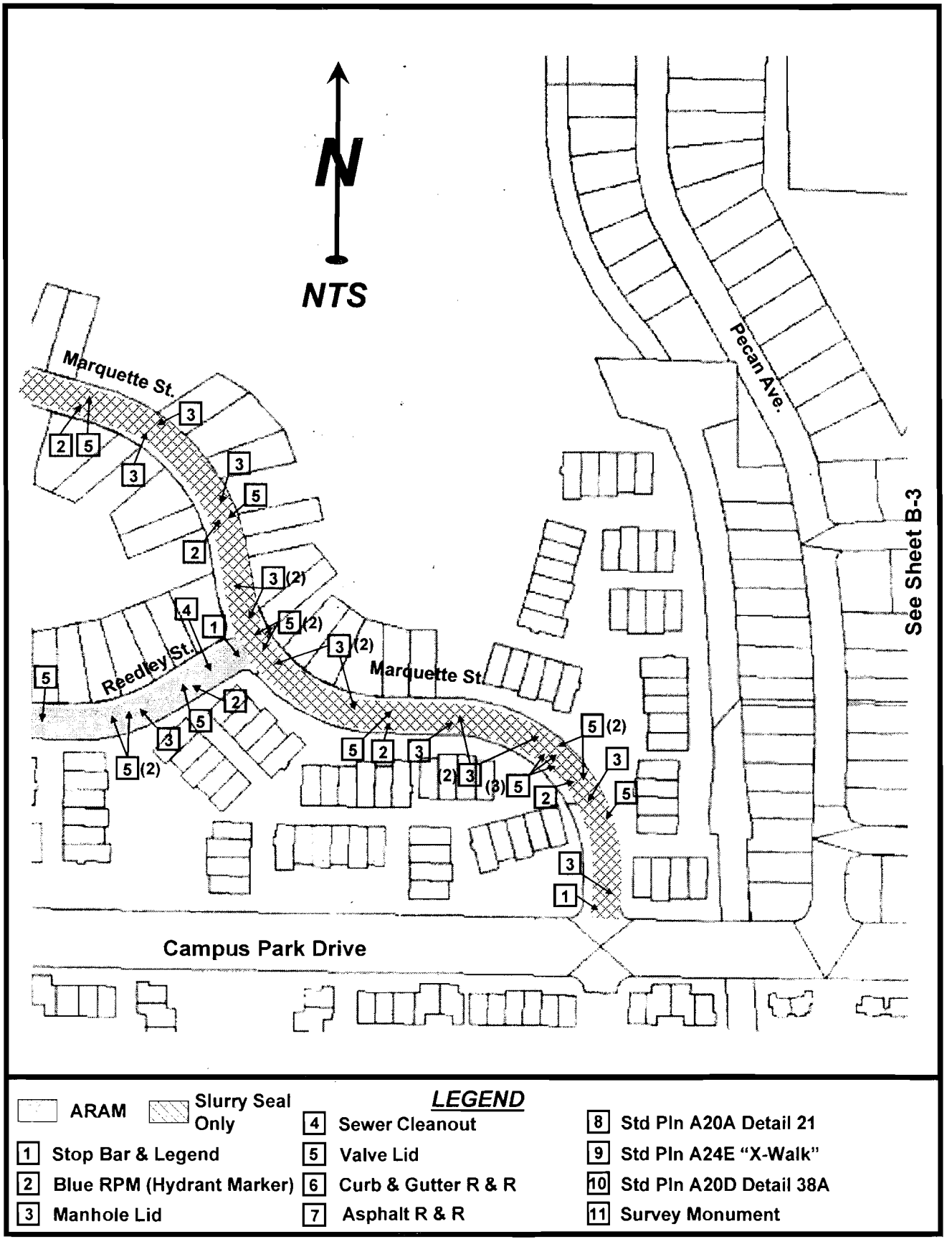


LEGEND

ARAM / Slurry Seal Only	4 Sewer Cleanout	8 Std Pln A20A Detail 21
1 Stop Bar & Legend	5 Valve Lid	9 Std Pln A24E "X-Walk"
2 Blue RPM (Hydrant Marker)	6 Curb & Gutter R & R	10 Std Pln A20D Detail 38A
3 Manhole Lid	7 Asphalt R & R	11 Survey Monument

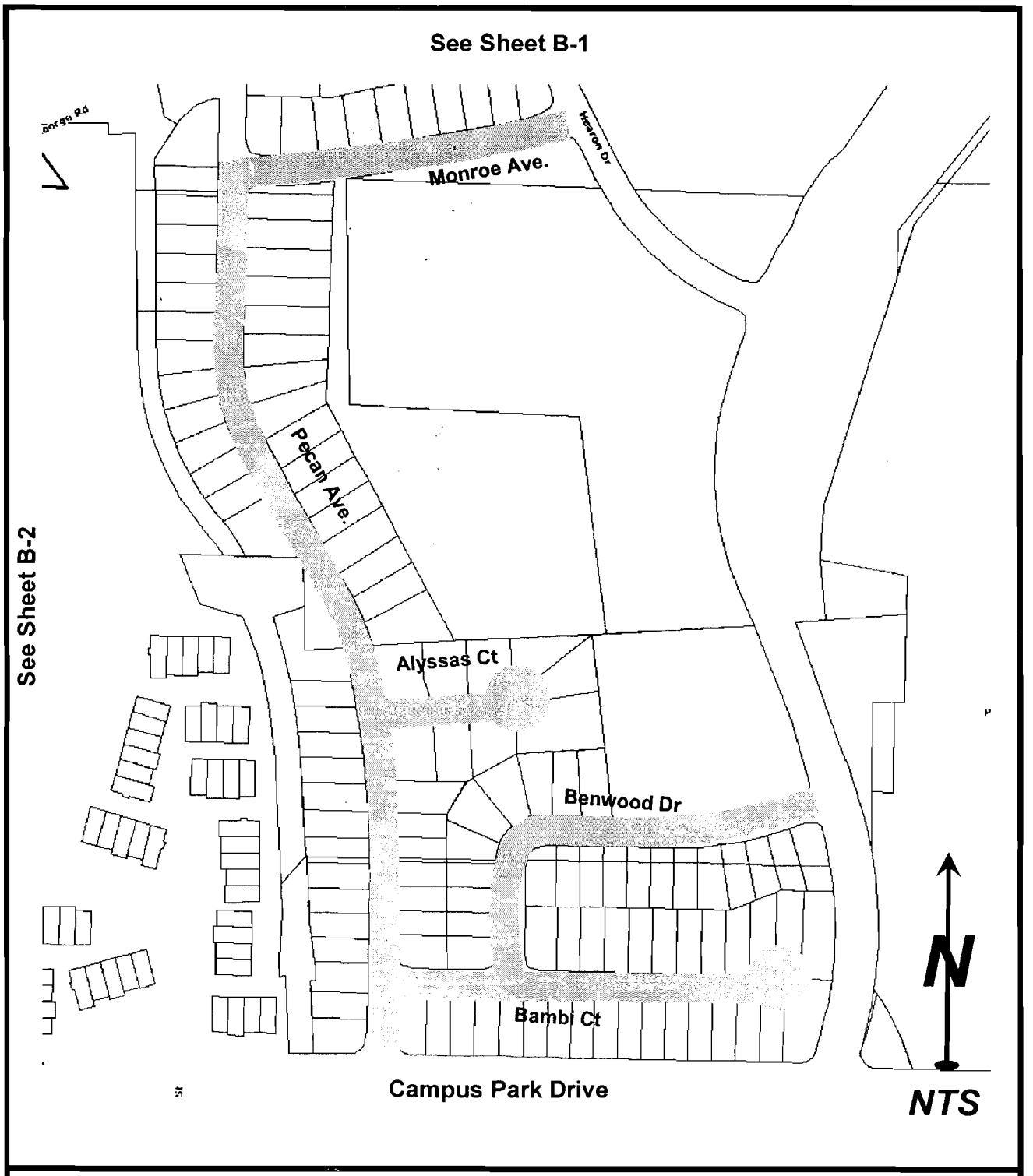
Sheet B-1

MPK 12-02 -- 2012 Pavement Rehabilitation Project



Sheet B-2

MPK 12-02 -- 2012 Pavement Rehabilitation Project

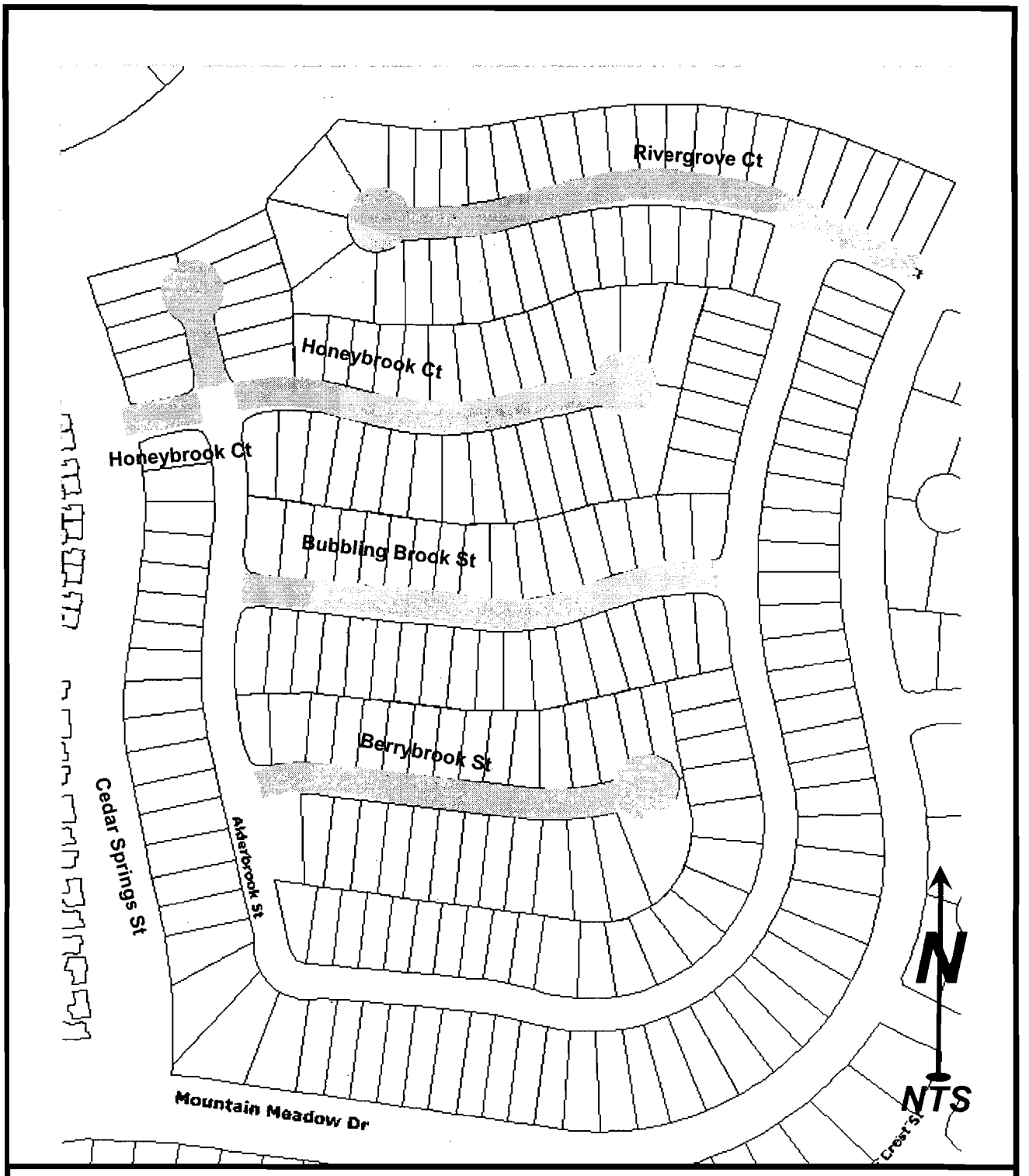


LEGEND

ARAM	Slurry Seal Only	
1 Stop Bar & Legend	4 Sewer Cleanout	8 Std Pln A20A Detail 21
2 Blue RPM (Hydrant Marker)	5 Valve Lid	9 Std Pln A24E "X-Walk"
3 Manhole Lid	6 Curb & Gutter R & R	10 Std Pln A20D Detail 38A
	7 Asphalt R & R	11 Survey Monument

Sheet B-3

MPK 12-02 -- 2012 Pavement Rehabilitation Project

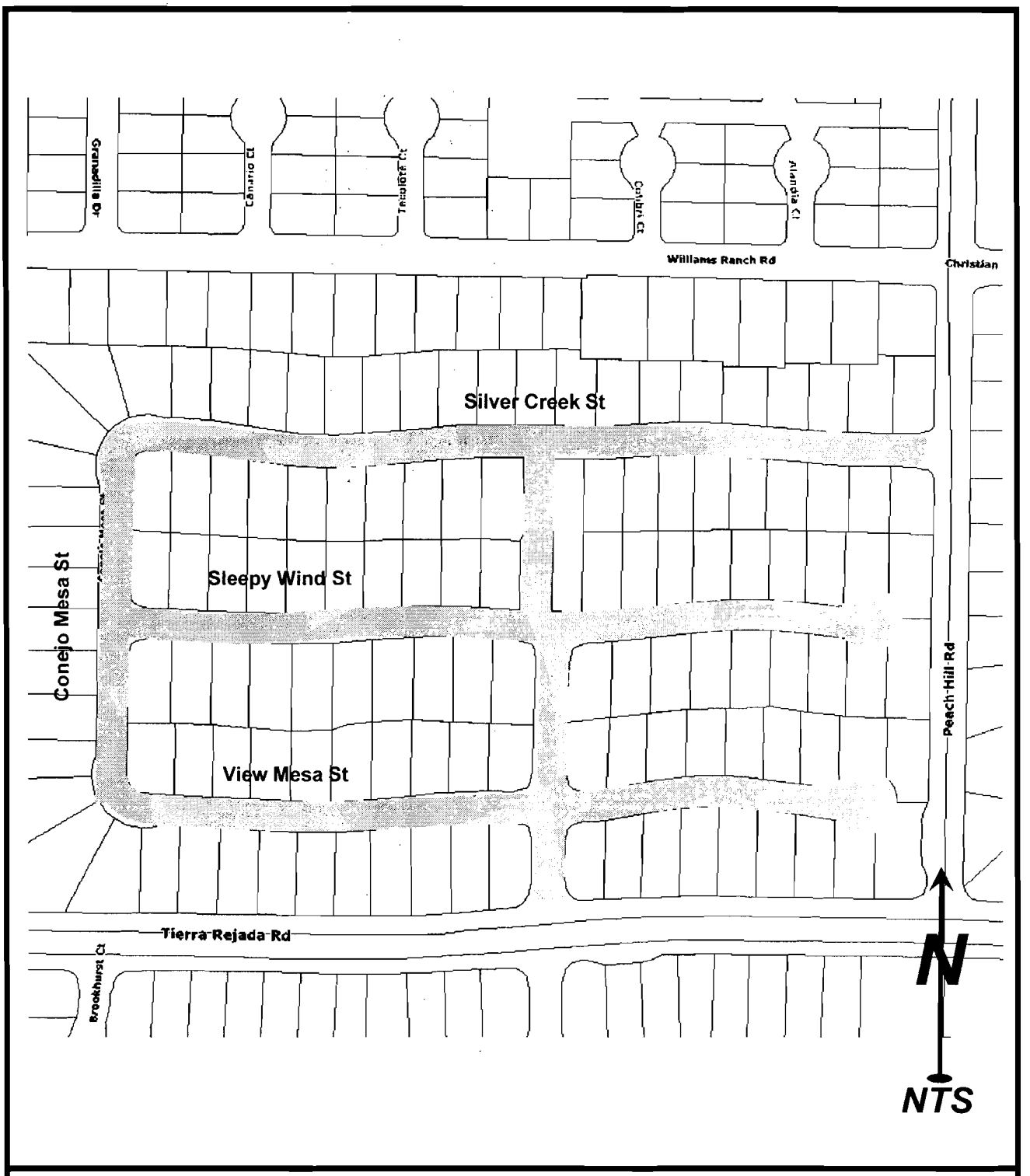


LEGEND

ARAM	4 Sewer Cleanout	8 Std Pln A20A Detail 21
Slurry Seal Only	5 Valve Lid	9 Std Pln A24E "X-Walk"
1 Stop Bar & Legend	6 Curb & Gutter R & R	10 Std Pln A20D Detail 38A
2 Blue RPM (Hydrant Marker)	7 Asphalt R & R	11 Survey Monument
3 Manhole Lid		

Sheet C-1

MPK 12-02 -- 2012 Pavement Rehabilitation Project



LEGEND

ARAM	4 Sewer Cleanout	8 Std Pln A20A Detail 21
Slurry Seal Only	5 Valve Lid	9 Std Pln A24E "X-Walk"
1 Stop Bar & Legend	6 Curb & Gutter R & R	10 Std Pln A20D Detail 38A
2 Blue RPM (Hydrant Marker)	7 Asphalt R & R	11 Survey Monument
3 Manhole Lid		

Sheet D-1

2012 ARAM and Slurry

List of Streets							Pavement Quantities						Striping, Manholes & Valves								
Street	From	To	Map Pg. No.	Trash Day	ARAM	SLURRY	Dimension (L)	Dimension (W)	Culdesac (Dia)	SF	ELT (Type 2 Slurry)	SY (ARAM)	Stop Bar & Legend	Center Line	Crosswalk	Arrows	Manholes	Valves	Blue RPM	Curb & Guttter R&R	AC R & R
Area 1																					
Chapman Pl	Reedley St	End (N)	A-1	Th	X		530	32	77	21,614		2,402	1	0	0	0	1	4	2	0	0
Marquette Cir	Marquette St	End (N)	A-1	Th	X		50	32	100	9,450		1,050	0	0	0	0	1	0	0	0	0
Marquette St	Loyola St	Marquette Cir	A-1	Th	X		645	40	0	25,800		2,867	0	0	0	0	4	1	1	0	0
Marquette St	Marquette Cir	Campus Park Dr	B-2	Th		X	2,540	40	0	101,600	78.2		1	0	0	0	16	19	7	0	0
Reedley St	Julliard Ave	Marquette St	A-1	Th	X		1,900	36	0	68,400		7,600	2	0	0	0	5	17	6	0	0
							Sub-Total			226,864		13,918									
Area 2																					
Bambi Ct	Pecan Ave	end	B-3	M	X		800	32		25,600		2,844	1	0	1	0					
Benwood Dr	Bambi Ct	Collins Dr	B-3	M	X		850	32		27,200		3,022	2	0	0	0					
Alyssas Ct	Pecan Ave	end	B-2	M		X	300	32		9,600	7.4		1	0	0	0					
Monroe Ave	Pecan Ave	Collins Dr	B-1	M	X		630	32		20,160		2,240	2	0	2	0					
Pecan Ave	Campus Park	Monroe Ave	B-3	M	X		1,700	40		68,000		7,556	2	0	1	0					
Pecan Ave	Monroe Ave	end	B-1	M	X		1,600	32		51,200		5,689	0	0	1	0			1		
Collegiate Ct	Pecan Ave	end	B-1	M	X		200	32		6,400		711	1	0	0	0			0		
							Sub-Total			208,160		22,062									
Area 3																					
Silver Creek St	Conejo Mesa St	Peach Hill Rd	D-1	M	X		1,320	32		42,240		4,693	1	0	0	0			1		
Conejo Mesa St	Siver Creek St	View Mesa St	D-1	M	X		600	32		19,200		2,133	0	0	0	0					
Sleepy Wind St	Conejo Mesa St	Pheasant Run St	D-1	M	X		700	32		22,400		2,489	1	0	0	0			1		
Sleepy Wind St	Pheasant Run St	end	D-1	M	X		600	32		19,200		2,133	0	0	0	0			1		
View Mesa St	Conejo Mesa St	Pheasant Run St	D-1	M	X		700	32		22,400		2,489	1	0	0	0					
View Mesa St	Pheasant Run St	end	D-1	M	X		600	32		19,200		2,133	1	0	0	0			1		
Pheasant Run St	Tierra Rejada Rd	Sleepy Wind St	D-1	M	X		450	32		14,400		1,600	2	0	0	0					
							Sub-Total			159,040		17,671									
Area 4																					
Rivergrove St	Mt Meadow Dr	end	C-1	T	X		900	32		28,800		3,200	1	0	0	0	7	3	3	0	0
Honeybrook Ct	Cedar Spring	end	C-1	T	X		800	32		25,600		2,844	1	0	0	0	3	1	2	0	0
Bubbling Brook St	Alderbrook St	Alderbrook St	C-1	T	X		730	32		23,360		2,596	2	0	0	0	2	2	2	0	0
Berry Brook Ct	Alderbrook St	end	C-1	T	X		670	32		21,440		2,382	1	0	0	0	3	1	1	0	0
							Sub-Total			99,200		11,022									
								Total		693,264	86	64,674	24	0	5	0	42	48	29	0	0
										SF	ELT	SY	EA	LF	EA	EA	EA	EA	EA	LF	SF

Attachment 2