

City of Greenfield
ADDENDUM NO. 1
To the Contract Bid Documents for the
GREENFIELD PAVEMENT MAINTENANCE PROJECT

5-23-2016

The following changes additions and clarifications are hereby made part of the contract documents for the above referenced project and shall be taken into account in the preparation of all proposals and the execution of all work. Work shall conform to the requirements of the original contract documents and addenda wherever they apply.

All bidders shall acknowledge receipt of this addendum via response to the email transmission of this addendum AND on the bid proposal form.

Modify the plans & specifications as follows:

Plans:

1. **Attached is a corrected and Revised "Street Schedule of Quantities"** found in the Supplemental Exhibits of the Plan Set. This Exhibit is consistent with adjusted Bid quantities.
2. **Attached is revised Sheets S7 and S8**, showing Additive bid item 17 (3/8" Max Agg. Leveling Course) locations as well as additional Grind and replace locations. These quantities are also now reflected in the revised, attached, "Street Schedule of Quantities".
3. Sheets 40-55: disregard reference to "Sand Slurry" with associated quantity in s.f. on these sheets, or any other sheet that may have a reference to "Sand Slurry". These streets shall all receive a PMRE Rejuvenating Fog Seal (per bid item 7). Correct quantities for bidding purposes are in the revised "Street Schedule of Quantities", attached.

Specifications:

1. The Bid Sheet is revised, and **attached is a new bid sheet**. Additions/modifications include:
 - a. Quantities corrected to correspond with the "Street Schedule of Quantities" found in the Supplemental Exhibits of the Plan Set.
 - b. Bid Items 8 & 15 reflect use of Type B – 5/16 aggregate for Scrub Seal.
 - c. Additive Alternate schedule now includes item 17: 3/8" max. Aggregate asphalt concrete leveling course.
 - d. Adjusted Bid Item 5 quantities to match revised "Street Schedule of Quantities" Exhibit, attached.
2. Section D2.8 Bid Item 8: Aggregate for Scrub Seal Shall be changed to Type B - 5/16 x #8 (no longer ¼ x #10). Emulsion Spread Rate shall be adjusted accordingly and is estimated at .26-.29 Gals/SY.
3. Add the following Specification Section:
 - a. D2.12 BID ITEM 17 ADDITIVE ALTERNATE ITEM 17: 3/8" MAX. AGGREGATE ASPHALT CONCRETE LEVELING COURSE

PREPARATION

Surface shall be clean of debris, Automotive oil and grease, vegetation, sand, or soil, and loose asphalt concrete material. Cracks shall be cleaned by an approved method so as to not pose a concern to adjacent businesses and pedestrians.

HOT MIX ASPHALT

All Hot Mix Asphalt shall be per Section 39, "Hot Mix Asphalt" of the Caltrans Standard Specifications. Hot Mix Asphalt shall be used in conform paving and includes, but is not necessarily limited to, the following work:

1. Liquid Asphalt (Prime Coat) and Asphaltic Emulsion (Paint Binder) shall be included as part of this item.

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2. Prime Coat shall conform to Section 39-4.1 and Section 93 of the Standard Specifications and shall be Grade SC-70.

3. Asphalt Emulsion (Paint Binder) shall conform to Section 39-4 and Section 94 of the Standard Specifications and shall be SS-1 with 60% with water.

4. Hot Mix Asphalt shall conform to Section 39 "Hot Mix Asphalt" of the Standard Specifications and these Special Provisions. Asphaltic concrete shall be Type A. No reclaimed asphalt pavement shall be used in the finished top lift of Hot Mix Asphalt. Reclaimed Hot Mix Asphalt can be used for leveling lifts.

- Aggregate for lifts 2" or less and base course paving shall conform to 1/2 inch maximum, medium grading as specified in Section 39-2.02 "Hot Mix Asphalt" of the Standard Specifications.
- Aggregate for lift greater than 2" and base course paving shall conform to 3/4 inch maximum, medium grading as specified in Section 39-2.02 "Hot Mix Asphalt" of the Standard Specifications.

The asphalt binder shall be PG-64-10 in conformance with Section 92 "Liquid Asphalts" of the Standard Specifications, and the amount to be mixed with the aggregate shall be between 5 and 7 percent by weight of dry aggregate. The exact amount will be determined by the Contractor by using California Test Method 367. The mix design obtained by the Contractor shall be reviewed and approved by the Engineer.

Tack coat shall be applied to aggregate base, all vertical surfaces, and between lifts at the rates shown in the following table. Application shall conform to the applicable sections of the Standard Specifications.

5. Place and roll asphaltic concrete as required in Section 39 of the Standard Specifications. Unless specifically allowed by the Engineer, the use of "spreader boxes" attached to the haul vehicle will not be allowed per Section 39 of the Standard Specifications.

Tack Coat Application Rates

HMA Overlay over:	Minimum Residual Rates (gallons per square yard)		
	CS1/CSS1h, SS1/SS1h and CS1h/CSS1h Asphaltic Emulsion	CS1/CSS2, SS1/SS2 and CS1/CS2 Asphaltic Emulsion	Asphalt Binder and FMS2/PMS2 and FMS2h/PMS2h Asphaltic Emulsion
New HMA (between layers)	0.02	0.03	0.02
Existing HMA and POC pavement	0.03	0.04	0.03
Planned Pavement	0.06	0.07	0.05

HMA Overlay (A/C 3/8" Max. Aggregate Overlay)

This work shall consist of the production and placement of asphalt concrete. Production and placement will include furnishing and mixing aggregate and asphalt binder at a central mixing plant; applying paint binder (tack coat) to existing asphalt concrete and vertical surfaces to be joined; leveling courses; spreading and compacting the mixture as shown on the Plans. Asphalt concrete shall be constructed to the form and dimensions where indicated on the Plans and to the grades shown on the Plans and established by the Engineer in the field. Edges shall be feathered and excess aggregate removed.

City Contact: Douglas Pike at dpike@mnsengineers.com or (805) 331-3553. Please acknowledge receipt of this Addendum.

End of Addendum 1

**CITY OF GREENFIELD
STREET MAINTENANCE PROJECT
BID SHEET (ADDENDUM 1)**

ITEM	ITEM DESCRIPTION	UNITS	QTY	UNIT COST (Figures)	TOTAL COST (Figures)
1	Mobilization and Insurance	LS	1		
2	Project Safety/Traffic Control	LS	1		
3	Remove All Pavement Legends, Stop Bars & Crosswalks	LS	1		
4	Remove Traffic Striping (Including Parking & All Raised Pavement Markers)	LS	1		
5	Grind & Replace AC (0.3' depth)	SF	11451		
6	Type II Microsurface; 22 lb	SY	29731		
7	Install PMRE Rejuvenating Fog Seal	SY	114533		
8	Rejuvenating Scrub Seal (Aggregate Grading Type B 5/16" x #8)	SY	107725		
9	Replace Existing With New - 55 New Thermoplastic Crosswalks (Per new City Standard)	LS	1		
10	Replace Existing With New - 91 New Thermoplastic Stop Bars and STOP Legends & Centerline Stripe	LS	1		
11	Replace Existing With New - 100 New Thermoplastic Misc. Type Legends (Arrows, Bikelane, Words, Etc.)	LS	1		
12	Replace Existing With New - Raised Pavement Markers Incl. White (10 est.), Yellow Reflective Markers (630 est.), and Blue Hydrant Markers (30. est)	LS	1		
13	Replace Existing With New - Thermoplastic Pavement Traffic & Bike Lane Striping, Parking Delineation (Per Contractors inventory of Striping)	LS	1		
14	Demobilization and Cleanup	LS	1		

TOTAL BID SCHEDULE :

15	Additive Alternate 1: Rejuvenating Scrub Seal (Grading Type B 5/16" x #8)	SY	6000		
16	Additive Alternate 2: PMRE Rejuvenating Fog Seal	SY	4000		
17	Asphalt Concrete Leveling Course (3/8" Max. Aggregate)	SF	25852		

Base Bid Schedule (In Words)

STREET SCHEDULE OF QUANTITIES (For reference)

Project Sheet Matrix

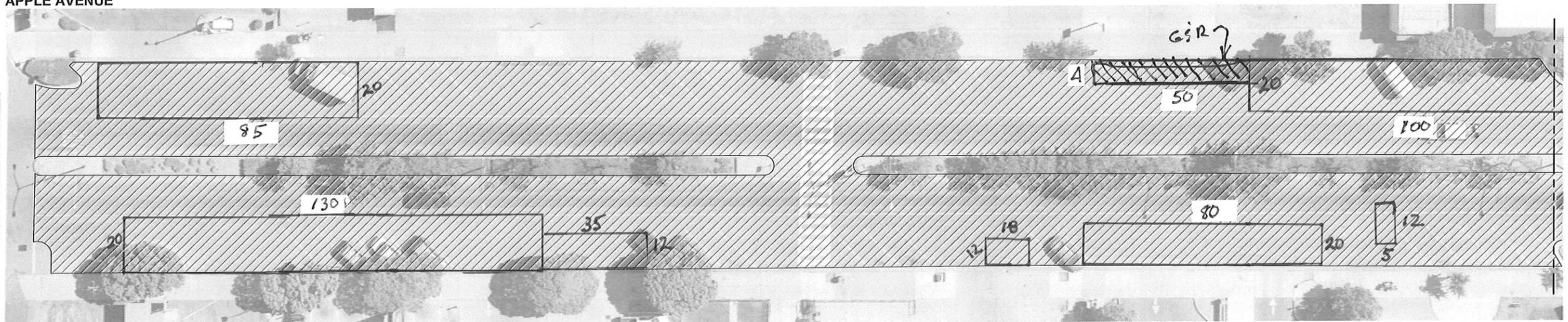
Note: Dimensions are scaled and approximate and to be used for estimating purposes.

Sheet Number	Street Description	Actual Road Length (ft)	Avg. Road Width (ft)	Road area (sf)	Paved Road area (sy)	Street Total (sy)	Treatment	Stop Bar and Legend & Center Line Stripe	Other Legend	Parking Delineation, Street/Bikeln	Raised Pavement Markers	Crosswalk	Asphalt Leveling Course (sf)	Grind & Replace (sf)	
S1	9th ST (Palm to Oak)	614.0	42.0	25788.0	2865.3	5712.0		2							
S1	9th ST (Oak to Maple)	610.0	42.0	25620.0	2846.7			2							
S2	Apple AVE (12th to Larsen)	1194.0	36.7	43819.8	4868.9	15641.3	Rejuvenating Scrub Seal 5/16"	3		Yes					
S2, S3	Apple AVE (Larsen Ln to 10th)	847.0	33.5	28374.5	3152.7			1		Yes					
S3	Apple AVE (10th to El Camino Real)	582.0	30.0	17460.0	1940.0			2		Yes					
S4	Apple AVE (ECR to 100' W of 6th)	941.0	29.5	27759.5	3084.4			3		Yes					
S4	Apple AVE (100' W of 6th to Alley fronting US101)	687.0	34.0	23358.0	2595.3							Yes			
S6	ECR (Walnut to Apple)	1298.0	77.0	99946.0	11105.1	29731.4	Scrub Seal w/PMRE/ Microsurfacing (Cape Seal)	2	34	Yes		1			
S7	ECR (Apple to Palm)	591.0	68.0	40188.0	4465.3			2	2	Yes			1	8696	200
S7	ECR (ECR/Palm Intersection)	41.5	77.0	3195.5	355.1				4	Yes			1	6834	36
S7	ECR (Palm to Oak)	594.0	65.0	38610.0	4290.0					Yes				1720	36
S7	ECR (ECR/Oak Intersection)	64.0	77.0	4928.0	547.6					Yes				2861	279
S8	ECR (Oak to Maple)	593.5	64.0	37984.0	4220.4					Yes					
S8	ECR (ECR/Maple Intersection)	42.0	78.0	3276.0	364.0				1	5	Yes			1	
S8	ECR (Maple to Elm)	607.0	65.0	39455.0	4383.9				1	7	Yes			2	5741
S9	Elm AVE (Elmwood to ECR)	1432.0	42.0	60144.0	6682.7	6682.7			3	Yes		1		5000	
S10	Elm AVE (ECR to 8th)	316.0	68.0	21488.0	2387.6	11054.2			5	Yes		1			
S10	Elm AVE (8th to US101)	1300.0	60.0	78000.0	8666.7			4	6	Yes		2			
S11	Maple AVE (9th to ECR, ECR to 8th)	604.0	42.0	25368.0	2818.7	2818.7			2		Yes				
S12, S13	Oak AVE (12th to 9th)	2275.0	41.5	94412.5	10490.3	12085.7			3	2	Yes		4		
S13	Oak AVE (9th to ECR)	346.0	41.5	14359.0	1595.4				3	Yes		2			
S14	Oak AVE (ECR to 8th)	305.0	62.0	18910.0	2101.1	8387.0			3	Yes					
S14	Oak AVE (8th to US101)	1328.0	42.6	56572.8	6285.9					Yes					
S15, S16	Oak AVE (US101 to 325' W of Vinyard Dr)	1893.0	41.0	77613.0	8623.7	12793.7	Rejuvenating Scrub Seal 5/16"		4	Yes				2900	
S16	Oak AVE (325' W of Vinyard Dr to 320' E of Vinyard Drive)	680.0	34.0	23120.0	2568.9							Yes			
S16, S17	Oak AVE (320' E of Vinyard Drive to Alves Ln)	655.0	22.0	14410.0	1601.1							Yes			
S19	Palm AVE (9th to ECR, ECR to 8th)	604.0	42.0	25368.0	2818.7	2818.7			2		Yes				
VINYARD GREEN															
S21	Maldonado ST	570.0	33.5	19095.0	2121.7	2121.7	Rejuvenation Fog Seal with PMRE	1							
S22	Santa Lucia ST	490.0	33.5	16415.0	1823.9	1823.9		1							
S23	Spark ST	490.0	33.5	16415.0	1823.9	1823.9		1							
LEXINGTON SQUARE															
S24	Avina AVE	485.0	29.5	14307.5	1589.7	1589.7	Rejuvenation Fog Seal with PMRE	1							
S25	Clark Colony AVE	657.0	28.7	18855.9	2095.1	2095.1		4							
S26	Gianolini PKWY	463.0	33.8	15649.4	1738.8	1738.8		3							
S27	Via Salvagno	605.2	30.2	18277.0	2030.8	2030.8									
No Plan	Various Alley Ways in Lex. Sq.	2249.0	14.0	31486.0	3498.4	3498.4									
ST. CHARLES PLACE															
S28	Huerta ST	533.4	29.0	15470.0	1718.9	1718.9	Rejuvenation Fog Seal with PMRE	1							
S29	Huerta AVE	925.0	40.0	37015.0	4112.8	4112.8		3	4	Yes		2			
S30	St Charles PLACE	563.0	46.4	26150.0	2905.6	2905.6		2	4	Yes		4			
S31	St Christopher LN	780.0	23.3	18158.0	2017.6	2017.6		1		Yes					
S32	St Mathew ST	1013.0	30.4	30760.0	3417.8	3417.8		1							
S33	Teneyuque AVE	293.0	29.1	8537.0	948.6	948.6		2				1			
S34	Tyler AVE	551.0	32.5	17907.5	1989.7	1989.7									
S35	Vasquez AVE	586.0	23.4	13741.0	1526.8	1526.8									
S36	Walker LN	703.0	26.8	18821.0	2091.2	2091.2									
S36A,B	Moreno ST	1844.0	29.3	54057.0	6006.3	6006.3		1							
S36C	Park AVE	298.0	49.8	14827.0	1647.4	1647.4		2		Yes		2			
No Plan	Various Alley Ways in St Chas PL	6961.0	12.0	83532.0	9281.3	9281.3									
LAS MANZANITAS															
S37	Las Manzanitas DR	620.0	37.3	23115.0	2568.3	2568.3	Rejuvenation Fog Seal with PMRE	2							
MARIPOSA															
S39	Wilson CIR	736.0	36.6	26933.0	2992.6	2992.6									
TRADITIONS (2nd STREET)															
S40	Alves LN	1295.0	29.0	37497.0	4166.3	4166.3	Rejuvenation Fog Seal with PMRE	2							
S41	Ava ST	1295.0	28.3	36702.0	4078.0	4078.0		2				4			
S43	Beech AVE	495.0	33.7	16684.0	1853.8	1853.8		2				4			
S44	Bella ST	669.0	33.2	22194.0	2466.0	2466.0		2				4			
S45	Cedar AVE	495.0	33.6	16650.0	1850.0	1850.0		2				4			
S50	Rava PK	305.0	35.5	10840.0	1204.4	1204.4		4	4			6			
NO PLAN	Various Alley Ways in Traditions	2500.0	13.5	33750.0	3750.0	3750.0									
LA VINA															
S42	Barbera WAY	810.0	22.3	18078.0	2008.7	2008.7	Rejuvenation Fog Seal with PMRE	2							
S43	Bianco WAY	424.0	33.6	14250.0	1583.3	1583.3		2							
S46	Chianti WAY	533.0	33.9	18052.0	2005.8	2005.8		2							
S51	Sirrah WAY	805.0	33.9	27326.0	3036.2	3036.2		2							
S52	Tawny Port WAY	797.0	35.9	28598.0	3177.6	3177.6		1							
S53	Thorpe AVE	1300.0	37.9	49206.0	5467.3	5467.3		2				1			
S54	Tuscany AVE	990.0	32.9	32569.0	3618.8	3618.8		1							
S55	Tuscany WAY	847.0	32.8	27810.0	3090.0	3090.0									
TERRA VERDE															
S45	Borzini CIR	483.0	40.1	19366.0	2151.8	2151.8	Rejuvenation Fog Seal with PMRE	1							
S47	Clinton WAY	625.0	40.4	25260.0	2806.7	2806.7		2							
S48	Del Ponte DR	1483.0	32.9	48836.0	5426.2	5426.2		2				1			
S49	Nino LN	206.0	36.9	7602.0	844.7	844.7		2							
MISC Areas (Not on Plans)															
Misc Areas Raised Pavement Markers (Incl. 630 Yellow Reflectors, 30 Blue Hydrant Markers, 10 White Reflectors)															
Misc Areas Rejuvenation Fog Seal															
Misc Areas Scrub Seal W/PMRE															
Actual Road Length (ft)															
Road area (sf)															
Paved Road area (sy)															
Street Total (sy)															
Stop Bar and Legend & Center Line Stripe															
Other Legend															
Crosswalk															
Asphalt Leveling Course (sf)															
Grind & replace (sf)															
		58,593	2,660	2,000,322	232,258	232,258		91	100			710	55	25,852	11,451

Rejuvenation Fog Seal with PMRE	114,533	SY
Optional Additive Rejuvenation Fog Seal with PMRE	4,000	SY
Rejuvenating Scrub Seal 5/16"	107,725	SY
Optional Additive Rejuvenating Scrub Seal 5/16"	6,000	SY
Microsurfacing (2nd Application of Cape Seal)	29,731	SY
Stop Bar & Legend	91	EA
Other Legend	100	EA
Crosswalk	55	EA
.3' Grind & Replace	11,451	SF
Raised Pavement Markers to be replaced	710	EA
3/8" Max. Aggregate A/C Leveling	25,852	SF

APPLE AVENUE

SEE PREVIOUS SHEET

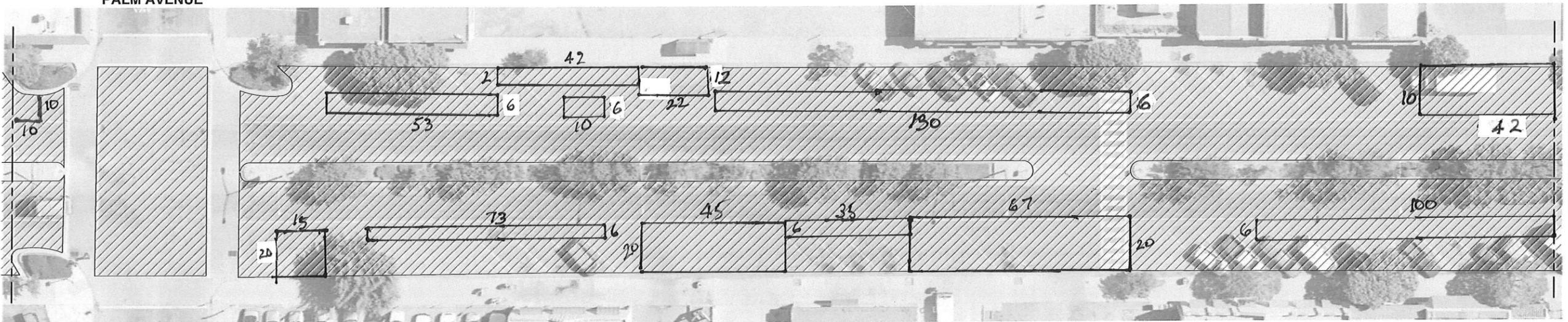


MATCH LINE C

APPLE AVENUE

PALM AVENUE

MATCH LINE C



MATCH LINE D

PALM AVENUE

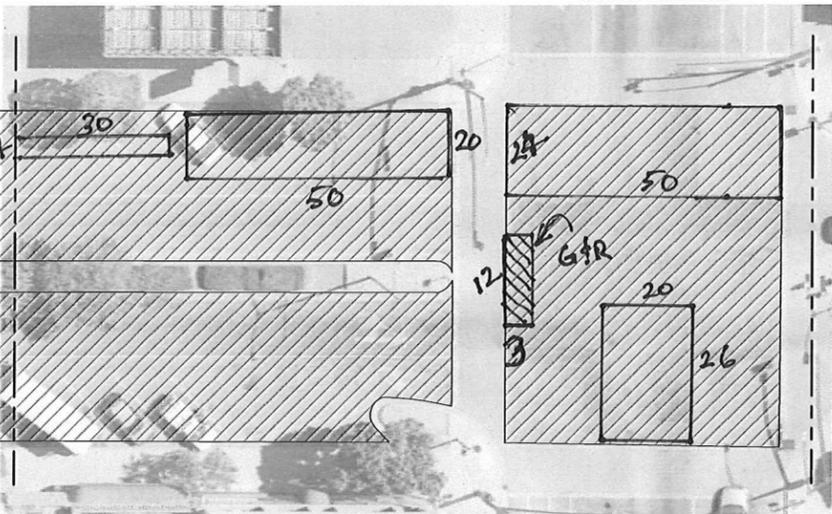
EL CAMINO REAL

CONSTRUCTION NOTES:

- 1) CONTRACTOR SHALL CREATE A STRIPING AND MARKING INVENTORY MAP OF ALL STREETS IN THE PROJECT SCOPE. INVENTORY MAP SHALL BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL PRIOR TO COMMENCING WORK.
- 2) CONTRACTOR SHALL REMOVE ALL EXISTING STRIPING AND MARKING PRIOR TO PLACING ANY SEAL. REMOVALS SHALL BE PERFORMED BY APPROVED METHOD USING EQUIPMENT EQUIPPED WITH VACUUM SYSTEM FOR DEBRIS AND DUST CONTROL.
- 3) CONTRACTOR SHALL PROVIDE TEMPORARY TRAFFIC STRIPING AND MARKINGS AS NECESSARY.
- 4) CONTRACTOR SHALL REPLACE STRIPING AND MARKING IN KIND UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.
- 5) CONTRACTOR SHALL PROTECT ALL UTILITIES DURING CONSTRUCTION AND EXPOSE ALL UTILITIES AFTER SLURRY PLACEMENT.
- 6) CONTRACTOR IS RESPONSIBLE FOR NO PARKING NOTIFICATIONS AND PROVIDING ACCESS TO BUSINESS AT ALL TIMES.

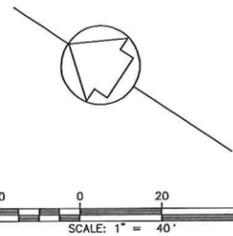
OAK AVENUE

MATCH LINE D



SEE NEXT SHEET

OAK AVENUE



EL CAMINO REAL STREET TOTALS:

- APPLE-ELM 18,626 SY
- Leveling course (x ft.) x (y ft.)
- Grubs? Replace

ENGINEERING SURVEYING CONSTRUCTION MANAGEMENT

MNS
 ENGINEERS IN CHARGE
 Registration No. 92427
 805.688.6200 Phone



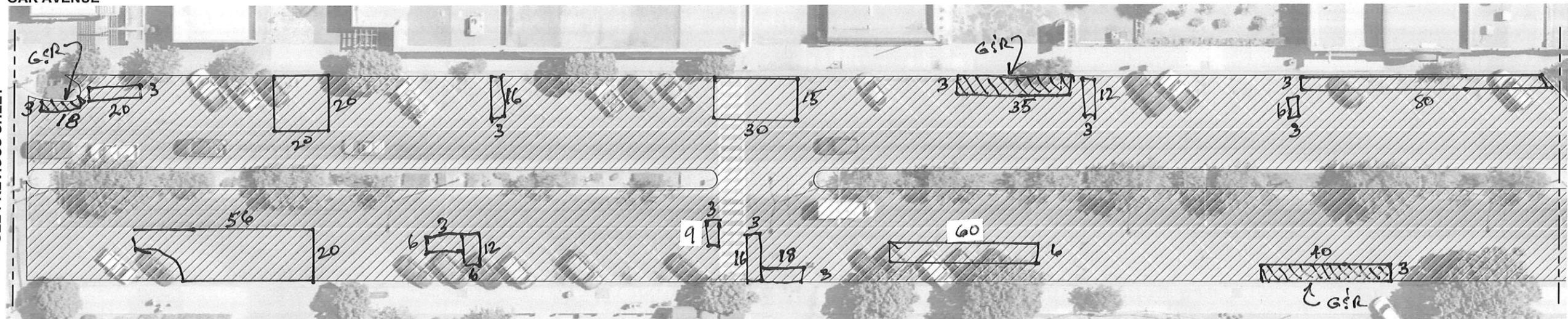
DATE: 03-31-2016
 SCALE: 1" = 40'
 DRAWN BY: KMT
 APPROVED BY: DSP
 DRAWING NO:
 Douglas S. Pike
 R.C.E. 43330, Exp. 03-31-18

CITY OF GREENFIELD
2016 STREET REHABILITATION PROJECT
 El Camino Real

Mon: 02-May-16 11:21:51 AM P:\GIS\2016 Greenfield\GIS\2016 Street Rehab Design\Drawings\City\Drawings\2016 Project\GIS\2016 Project\GIS\2016 100003 100003 100003.dwg

OAK AVENUE

SEE PREVIOUS SHEET

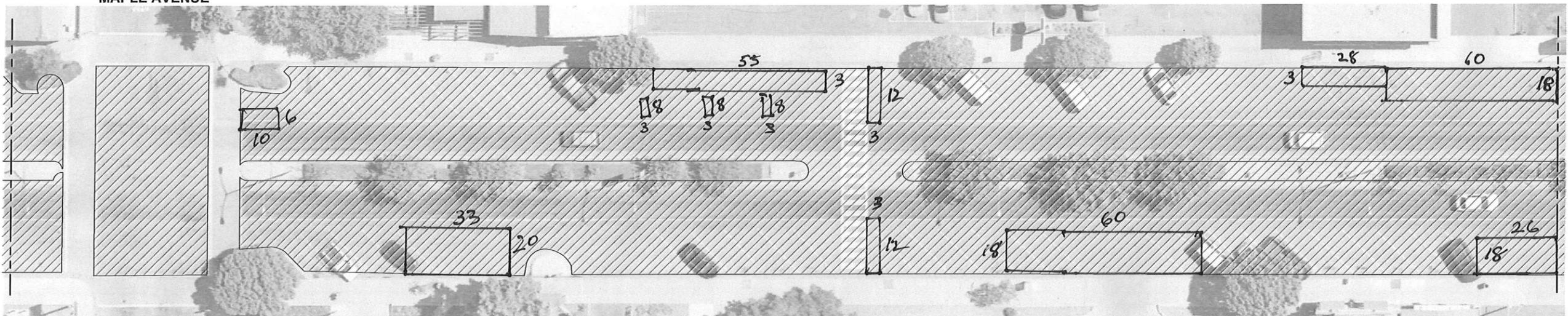


MATCH LINE E

OAK AVENUE

MAPLE AVENUE

MATCH LINE E



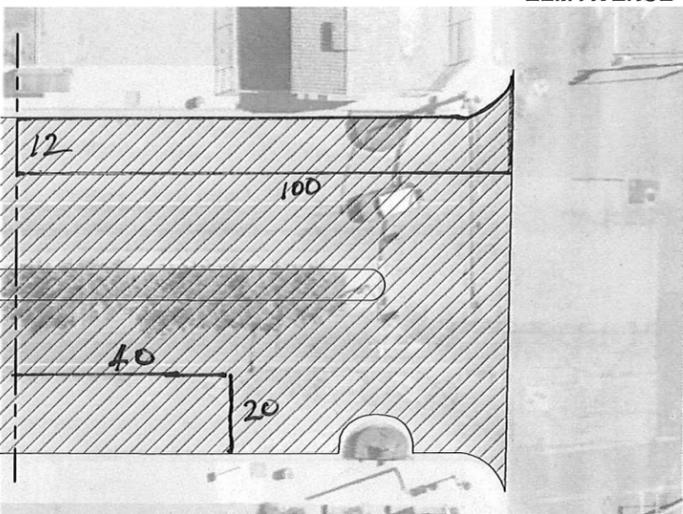
MATCH LINE F

MAPLE AVENUE

EL CAMINO REAL

ELM AVENUE

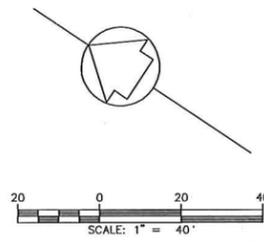
MATCH LINE F



ELM AVENUE

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GIR = GIR: Replace
X ft. x Y ft.

[Empty rectangle] = Leveling
course

[Hatched rectangle] = EXIST
AC PAVE.

CITY OF GREENFIELD
2016 STREET REHABILITATION PROJECT
El Camino Real

SHEET
S8
11 OF 59

DATE: 03-31-2016
SCALE: 1"=40'
DRAWN BY: KMY
APPROVED BY: DSP
DRAWING NO:

REGISTERED PROFESSIONAL ENGINEER IN VERMONT
MNS
ENGINEERING SURVEYING CONSTRUCTION MANAGEMENT
201 Industrial Way
Burlington, VT 05401
802.558.5200

REGISTERED PROFESSIONAL ENGINEER IN VERMONT
D.S.P.
NO. 4330
Exp. 3-31-18
Douglas S. Pike
R.C.E. 4330, EXP. 03-31-18

Mon 02-Nov-16 11:29:51 AM P:\GIS\2016 Greenfield\GIS\2016 Street Rehab Design\Drawings\2016 Project\GIS\2016_S8.dwg