

PAVEMENT PROJECT

WALLACE LAKE ESTATES

CALAVERAS COUNTY, CALIFORNIA

2016 PAVEMENT MAINTENANCE PROJECT



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Submittal	
%	Date

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WALLACE LAKE ESTATES
PAVEMENT PROJECT
CALAVERAS COUNTY, CALIFORNIA

PAVEMENT MAINTENANCE
TITLE SHEET

Revisions				Design CMK	Scale N.T.S.	Date APRIL 2016
No.	Description	Date	By			
				Drawn CMK	Original Drawing Scale 0 1/2" 1"	Sheet Number 1 of 9
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Project File No.
2281-0010

FILE SPEC: P:\2281-Wallace Lake Estates\0010-2016_Road_Maintenance_Project\08_Civil\400_Plans\Q20_CAD\Sheets\Civil\RoadRepairPlans-CMK.dwg
PLOT DATE: Apr 27, 2016 - 2:24pm



AREA	SQ. FT.	TYPE OF WORK
1	16,100	SLURRY SEAL
2	58,660	SLURRY SEAL
3	39,781	SLURRY SEAL
4	34,387	SLURRY SEAL
5	44,381	SLURRY SEAL
6	94,711	SLURRY SEAL
7	22,571	FOG SEAL
8	N/A	STRUCTURAL REPAIR
9	N/A	STRUCTURAL REPAIR
10	414,198	2' X 2' POT HOLES



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**WALLACE LAKE ESTATES
PAVEMENT PROJECT**
CALAVERAS COUNTY, CALIFORNIA

**PAVEMENT MAINTENANCE
BASE MAP**

Revisions				
No.	Description	Date	By	App'd. By

Design
WZ

Drawn
WZ

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Scale
1" = 500'
Original Drawing Scale
0 1/4" 1"

Date
APRIL 2016

Sheet Number
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Project File No.
2281-0010

FILE SPEC: P:\2281-Wallace Lake Estates\0010_2016_Road_Maintenance_Project\08_Civil\400_Plans\020_CAD_Sheets\Civil\RoadRepairPlans-Cmk.dwg
PLOT DATE: Apr 27, 2016 - 1:40pm

GENERAL NOTES:

1. PRIOR TO THE COMMENCEMENT OF WORK, A JOINT INSPECTION BETWEEN THE ENGINEER, OR HIS REPRESENTATIVE, AND THE CONTRACTOR, OR HIS REPRESENTATIVE, WILL BE CONDUCTED TO REVIEW THE PRECONSTRUCTION CONDITIONS OF THE EXISTING FACILITIES IN THE VICINITY OF THE PROJECT SITE, (E.G. ROADS, PUMPS, DISCHARGE PIPES, SIPHONS, RAMPS, GATES, SIGNS, ETC.) IF SUCH EXISTING FACILITIES ARE DAMAGED BY THE CONTRACTOR'S OPERATIONS, THE CONTRACTOR, AT HIS EXPENSE, SHALL REPLACE OR RESTORE THEM TO THE CONDITION THAT EXISTED PRIOR TO THE COMMENCEMENT OF WORK.
2. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT (209) 946-0268, A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY WORK.
3. THE ENGINEER RESERVES THE RIGHT TO SUSPEND CONSTRUCTION AT ANY TIME IN THE EVENT OF WEATHER, OTHER CONDITIONS OR EMERGENCIES THAT MAY JEOPARDIZE THE INTEGRITY OF EXISTING FACILITIES.
4. THE CONTRACTOR SHALL NOT CLOSE ANY ROAD, STREET, OR HIGHWAY TO THE PUBLIC EXCEPT WITH THE PERMISSION OF THE ENGINEER AND THE PROPER GOVERNMENTAL AUTHORITY. TEMPORARY PROVISIONS SHALL BE MADE BY THE CONTRACTOR TO ENSURE CONTINUOUS ACCESS TO PUBLIC AND PRIVATE DRIVEWAYS, AND PROPER FUNCTIONING OF SEWER INLETS, GUTTERS, CULVERTS, DRAINAGE AND IRRIGATION DITCHES, AND NATURAL WATER COURSES AS OUTLINED IN THE TRAFFIC CONTROL PLAN.
5. THE CONTRACTOR WILL SECURE RIGHT-OF-WAYS FOR ALL INTENDED ROADS AND ACCESS ROUTES AS NEEDED.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCESS ALONG THE COUNTY ROADS AT ALL TIMES DURING CONSTRUCTION. ANY DAMAGE TO THE COUNTY ROADS SHALL BE IMMEDIATELY REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
7. IF DELIVERING MATERIAL OR EQUIPMENT BY TRUCK, ALL TRUCK TRAFFIC SHALL BE LIMITED TO THE COUNTY AND WLECSO ROADS, UNLESS OTHERWISE APPROVED.
8. MAXIMUM SPEED LIMIT ON WLECSO ROADS IS 25 MPH, OR AS POSTED.
9. THE ENGINEER WILL PROVIDE LOCATIONS OF THE DESIGNATED PROJECT REPAIR SITES WITH START AND STOP POINTS.
10. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING OVERHANGING TREES AS MAY BE REQUIRED FOR CONSTRUCTION ACTIVITIES.
11. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND THE OWNER'S ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
12. ANY DEFICIENCIES NOTED DURING INTERIM AND FINAL INSPECTIONS BY THE ENGINEER AND/OR OWNER, SHALL BE CORRECTED BY THE CONTRACTOR PRIOR TO FINAL ACCEPTANCE BY THE ENGINEER. ANY ADDITIONAL COSTS AND EXPENSES FOR MOBILIZATION AND/OR DEMOBILIZATION, LABOR, EQUIPMENT AND OTHER ASSOCIATED COSTS REQUIRED TO CORRECT THE DEFICIENCIES NOTED, EXCEPT SPECIFIED MATERIAL(S), SHALL BE BORNE BY THE CONTRACTOR.
13. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER.
14. SHOULD IT APPEAR THAT THE WORK TO BE DONE, OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER AT (209) 946-0268 FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.
15. THE INTENT OF THESE PLANS ARE TO SERVE AS A GUIDE AND TO PROVIDE THE CONTRACTOR WITH INFORMATION AND DETAILS NECESSARY TO CONSTRUCT THE PROJECT AND FURNISH THE NECESSARY LABOR, MATERIALS, AND EQUIPMENT TO PERFORM THE WORK IN ACCORDANCE WITH THEIR TRUE INTENT AND PURPOSE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY REGARDING ANY DISCREPANCIES AND AMBIGUITIES WHICH MAY EXIST IN THE PLANS OR SPECIFICATIONS. IF THE PLANS DESCRIBE PORTION OF THE WORK IN GENERAL TERMS BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE FIRST QUALITY ARE TO BE USED.
16. THE CONTRACTOR SHALL PLAN WORK WHILE THERE IS NO THREAT OF RAIN WITHIN ONE WEEK OF PLANNED ACTIVITIES.
17. NEITHER THE OWNER NOR THE ENGINEER MAKE ANY WARRANTY OR GUARANTEE AS TO THE ADEQUACY OF THE EXISTING NATIVE MATERIALS TO SUPPORT THE CONSTRUCTION TRAFFIC ON THE ACCESS ROADS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MAKING THE NECESSARY IMPROVEMENTS AND PROVIDING THE NECESSARY MEASURES REQUIRED TO ACCOMMODATE HIS ANTICIPATED NEEDS.
18. THE CONTRACTOR SHALL BE RESTRICTED TO THE USE OF HIGHWAY LEGAL SIZED TRUCKS AND TRAILERS AND OTHER EQUIPMENT OPERATIONS OVER THE DESIGNATED ROADS, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

19. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE OSHA REGULATIONS.
20. ALL IMPROVEMENTS TO BE DONE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS.
21. THE CONTRACTOR SHALL NOTIFY THE ENGINEER WHENEVER IT APPEARS THERE IS A CHANGE IN SITE CONDITIONS OR AN ADJUSTMENT TO BE MADE IN WORK REQUIREMENTS.
22. THE CONTRACTOR SHALL AT ALL TIMES BE RESPONSIBLE FOR THE SECURITY OF HIS PLANT AND EQUIPMENT. THE OWNER AND ENGINEER WILL NOT TAKE ANY RESPONSIBILITY FOR MISSING OR DAMAGED EQUIPMENT, TOOLS, OR PERSONAL BELONGINGS.

ENVIRONMENTAL NOTES:

1. THE CONTRACTOR SHALL MAINTAIN AIR POLLUTION CONTROLS BY NOT DISCHARGING SMOKE, DUST, OR ANY OTHER AIR CONTAMINANTS INTO THE ATMOSPHERE IN SUCH QUANTITY AS WILL VIOLATE THE REGULATIONS OF ANY LEGALLY CONSTITUTED AUTHORITY. HE SHALL ALSO ABATE DUST NUISANCE BY CLEANING, SWEEPING AND SPRINKLING WITH WATER, OR OTHER MEANS AS NECESSARY. THE USE OF WATER IN AN AMOUNT WHICH RESULTS IN MUD ON PUBLIC ROADS IS NOT ACCEPTABLE AS A SUBSTITUTE FOR SWEEPING OR OTHER METHODS.
2. THE CONTRACTOR SHALL EXERCISE EVERY REASONABLE PRECAUTION TO PROTECT STREAMS, WATERWAYS AND OTHER BODIES OF WATER FROM POLLUTION WITH FUELS, OIL, BITUMEN'S, CALCIUM CHLORIDE, AND OTHER HARMFUL MATERIALS AND SHALL CONDUCT AND SCHEDULE HIS OPERATIONS SO AS TO AVOID OR MINIMIZE MUDDYING AND SILTING OF SAID WATERS. CARE SHALL BE EXERCISED TO PRESERVE ROADSIDE VEGETATION BEYOND THE LIMITS OF CONSTRUCTION.
3. THROUGHOUT ALL PHASES OF CONSTRUCTION, INCLUDING SUSPENSION OF WORK, AND UNTIL FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL KEEP THE WORK SITE CONDITIONS CLEAN AND FREE FROM RUBBISH AND DEBRIS.

DUST AND MUD CONTROL:

1. DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL KEEP ALL CONSTRUCTION AREAS, EMBANKMENT FILL AREAS, HAUL ROADS, OTHER ROADWAYS, AND OTHER USE AREAS WHERE DUST IS GENERATED WELL WATERED; AND DURING WET CONDITIONS, AREAS USED BY LOCAL TRAFFIC, FREE AND CLEAR FROM MUD.

UTILITY NOTES:

1. THE APPROXIMATE LOCATION OF KNOWN UTILITIES, MAY BE SHOWN ON THE PLANS FOR THE INFORMATION OF THE CONTRACTOR. THE OWNER AND ENGINEER ASSUME NO RESPONSIBILITY FOR THE ACCURACY OR RELIABILITY OF THIS INFORMATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE ACTUAL LOCATION OF ALL UNDERGROUND, SURFACE, AND OVERHEAD IMPROVEMENTS, OR FACILITIES WHICH MAY BE SUBJECT TO DAMAGE BY REASON OF HIS OPERATIONS.
2. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES THAT MAY BE IN CONFLICT WITH THE WORK AND SHALL CONTACT THE RESPECTIVE UTILITY COMPANIES PRIOR TO COMMENCEMENT OF WORK.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PRESERVATION OF ALL SUCH FACILITIES IN THE AREA OF CONSTRUCTION, AND SHALL NOTIFY UTILITIES TWENTY-FOUR (24) HOURS IN ADVANCE OF ANY CONSTRUCTION. (UNDERGROUND SERVICE ALERT (800) 642-2444)

TRAFFIC CONTROL

1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND AS DESCRIBED HERE.
2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, COUNTY AND LOCAL REQUIREMENTS, AS REQUIRED FOR TRAFFIC CONTROL AND PUBLIC SAFETY DURING PROJECT CONSTRUCTION.
3. THE CONTRACTOR MUST PREPARE A TRAFFIC CONTROL PLAN DETAILING PROPER ROAD STATUS NOTIFICATION AND SIGNAGE.

CLEANUP:

1. THE CONTRACTOR, UPON COMPLETION OF ALL WORK, SHALL RESTORE ALL ACCESS ROADS, HAUL ROADS, SHOULDERS AND EMBANKMENTS AND PROJECT SITES IN A MANNER SATISFACTORY TO THE ENGINEER AND LANDOWNER.

INSPECTION:

1. CONTRACTOR IS RESPONSIBLE FOR INSPECTION, QA/QC PER APPENDIX A MAKE PART OF SPECIFICATIONS.

POWER LINES:

1. THE CONTRACTOR SHALL TAKE NOTE OF ANY POWER LINES WITHIN THE CONSTRUCTION ZONE. EXTREME CAUTION IS ADVISED WHILE WORKING AROUND AND NEAR THESE LIVE LINES.

DEMOLITION NOTE:

1. DISPOSAL OF EXISTING AND REMOVED AGGREGATE, ASPHALT, AND OTHER DEBRIS SHALL BE REMOVED FROM SITE AND DISPOSED OF BY CONTRACTOR UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. TRIMMING OF LOW HANGING TREE LIMBS MAY BE NECESSARY FOR PROSECUTION OF WORK AND TO BE INCLUDED IN LUMP SUM PRICE FOR SLURRY SEAL APPLICATION. DISPOSAL PER NOTE 1 ABOVE.

TRAFFIC MARKINGS / STRIPING:

1. CONTRACTOR SHALL MAKE NOTE OF ALL EXISTING STRIPING PRIOR TO APPLICATION OF SLURRY SEAL AND REPLACE IN KIND FOLLOWING APPLICATION OF SLURRY SEAL AT A TIME RECOMMENDED PER SLURRY SEAL AND/OR PAINT MANUFACTURER'S SPECIFICATIONS AND/OR RECOMMENDATIONS.
2. IN THE TIME BETWEEN APPLICATION OF SLURRY SEAL AND REPLACEMENT STRIPING CONTRACTOR TO PLACE SIGNAGE INDICATING REDUCED SPEED LIMIT AND "ONE LANE ROAD AHEAD" OR APPROPRIATE SIGNAGE AT ALL ENTRANCES AND MAJOR INTERSECTIONS TO THE DEVELOPMENT.
3. STRIPING TO BE PER SPECIFICATION SECTION 02B43.
4. PAYMENT FOR REPLACEMENT OF TRAFFIC MARKINGS / STRIPING PER LUMP SUM BASIS.

TYPE I SLURRY SEAL:

1. CONTRACTOR'S ATTENTION DIRECTED TO APPENDIX A MADE PART OF THE CONTRACT DOCUMENTS REGARDING APPLICATION OF SLURRY SEAL WITHIN THE DESIGNATED SECTIONS AS SHOWN ON PLANS.
2. THE INTENT OF THESE PLANS IS TO SERVE AS A GUIDE AND TO PROVIDE APPROXIMATE QUANTITIES TO THE CONTRACTOR ALONG WITH INFORMATION AND DETAILS NECESSARY TO EVALUATE THE PROJECT. CONTRACTOR SHALL BECOME FAMILIAR WITH THE SITE AND DO WHATEVER MEANS NECESSARY TO COMPUTE ACTUAL QUANTITIES TO BE UTILIZED TO PROVIDE BID/CONTRACT PRICE.
3. PAYMENT FOR APPLICATION OF TYPE I SLURRY SEAL PER LUMP SUM BASIS.

FOG SEAL COAT:

1. CONTRACTOR'S ATTENTION DIRECTED TO APPENDIX B MADE PART OF THE CONTRACT DOCUMENTS REGARDING APPLICATION OF SLURRY SEAL WITHIN THE DESIGNATED SECTIONS AS SHOWN ON PLANS.
2. THE INTENT OF THESE PLANS IS TO SERVE AS A GUIDE AND TO PROVIDE APPROXIMATE QUANTITIES TO THE CONTRACTOR ALONG WITH INFORMATION AND DETAILS NECESSARY TO EVALUATE THE PROJECT. CONTRACTOR SHALL BECOME FAMILIAR WITH THE SITE AND DO WHATEVER MEANS NECESSARY TO COMPUTE ACTUAL QUANTITIES TO BE UTILIZED TO PROVIDE BID/CONTRACT PRICE.
3. PAYMENT FOR APPLICATION OF FOG SEAL COAT PER LUMP SUM BASIS.

PUBLIC NOTIFICATION:

1. THE CONTRACTOR SHALL NOTIFY, IN WRITING, RESIDENTS AND BUSINESS ESTABLISHMENTS ALONG THE ROUTE OF THE WORK AT LEAST TEN (10) WORKING DAYS PRIOR TO ROAD CLOSURES AND AT LEAST THREE (3) WORKING DAYS PRIOR TO DISRUPTION OF INGRESS AND EGRESS. THE NOTICE PROVIDED TO THE RESIDENCES OR BUSINESSES SHALL INCLUDE, AT A MINIMUM, SCHEDULE OF CLOSURES WITH ESTIMATED CLOSURE TIMES, CLOSURE LOCATIONS, ALTERNATE ROUTE OR DETOUR, AND NAME AND TWENTY-FOUR (24) HOUR PHONE NUMBER OF A CONTACT PERSON EMPLOYED BY THE CONTRACTOR.
2. THE CONTRACTOR SHALL NOTIFY, IN WRITING, RESIDENTS AND BUSINESS ESTABLISHMENTS ALONG THE ROUTE OF THE WORK AT LEAST THREE (3) WORKING DAYS PRIOR TO PLACING PARKING RESTRICTIONS WITHIN THE DISTRICT RIGHT-OF-WAY. THE NOTICE PROVIDED TO THE RESIDENCES OR BUSINESSES SHALL INCLUDE, AT A MINIMUM, SCHEDULE OF PARKING RESTRICTIONS WITH ESTIMATED TIMES, LOCATION, AND A NAME AND TWENTY-FOUR (24) HOUR PHONE NUMBER OF A CONTACT PERSON EMPLOYED BY THE CONTRACTOR.
3. THE CONTRACTOR SHALL ALSO NOTIFY CALAVERAS COUNTY WATER DISTRICT PROVIDERS OF SEWER AND WATER SERVICE, (209) 754-3543.

SPECIAL NOTE: THE NOTES PLACED ON THIS PLAN SHEET ARE TO BE USED AS A GUIDE FOR VARIOUS TOPICS DESCRIBED. SPECIFIC DETAILS AND FURTHER EXPLANATIONS OF THE VARIOUS NOTES ARE DESCRIBED IN THE SPECIFICATIONS AND WITHIN THESE PLANS.



Submittal	
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Revisions					Design WZ	Scale	Date APRIL 2016
No.	Description	Date	By	Appvd. By			
					Drawn WZ	Original Drawing Scale 0 1/2" 1"	Sheet Number 3 Of 9
					Check DCC	Project File No. 2281-0010	

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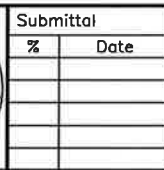
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WALLACE LAKE DR N

ROAD MAINTENANCE AREA 1: 16,100 SQFT

S WALLACE LAKE DR



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CALAVERAS COUNTY, CALIFORNIA

PAVEMENT MAINTENANCE
AREA 1

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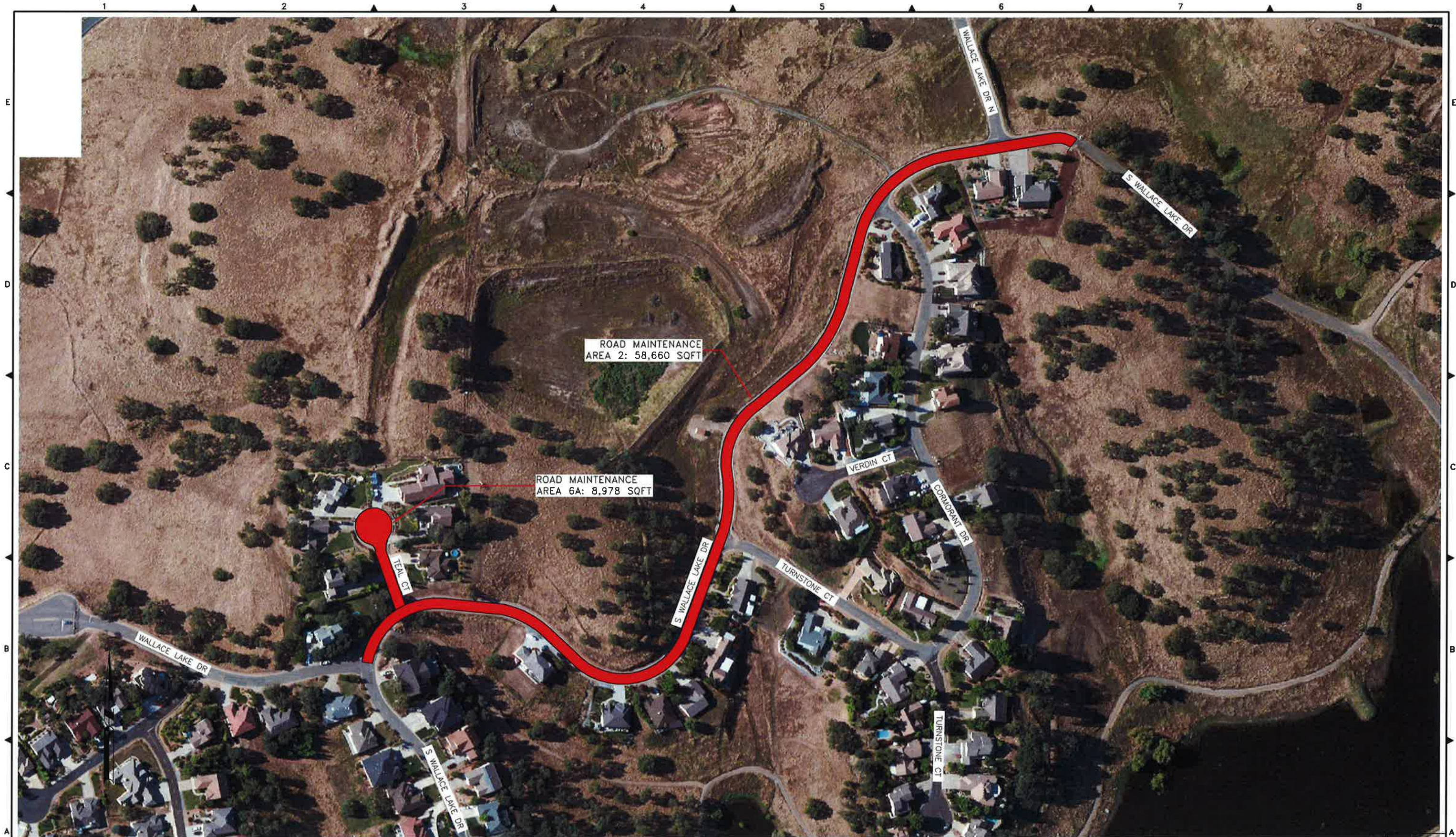
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CALAVERAS COUNTY, CALIFORNIA**

**PAVEMENT MAINTENANCE
AREA 2, 6A**

Revisions				
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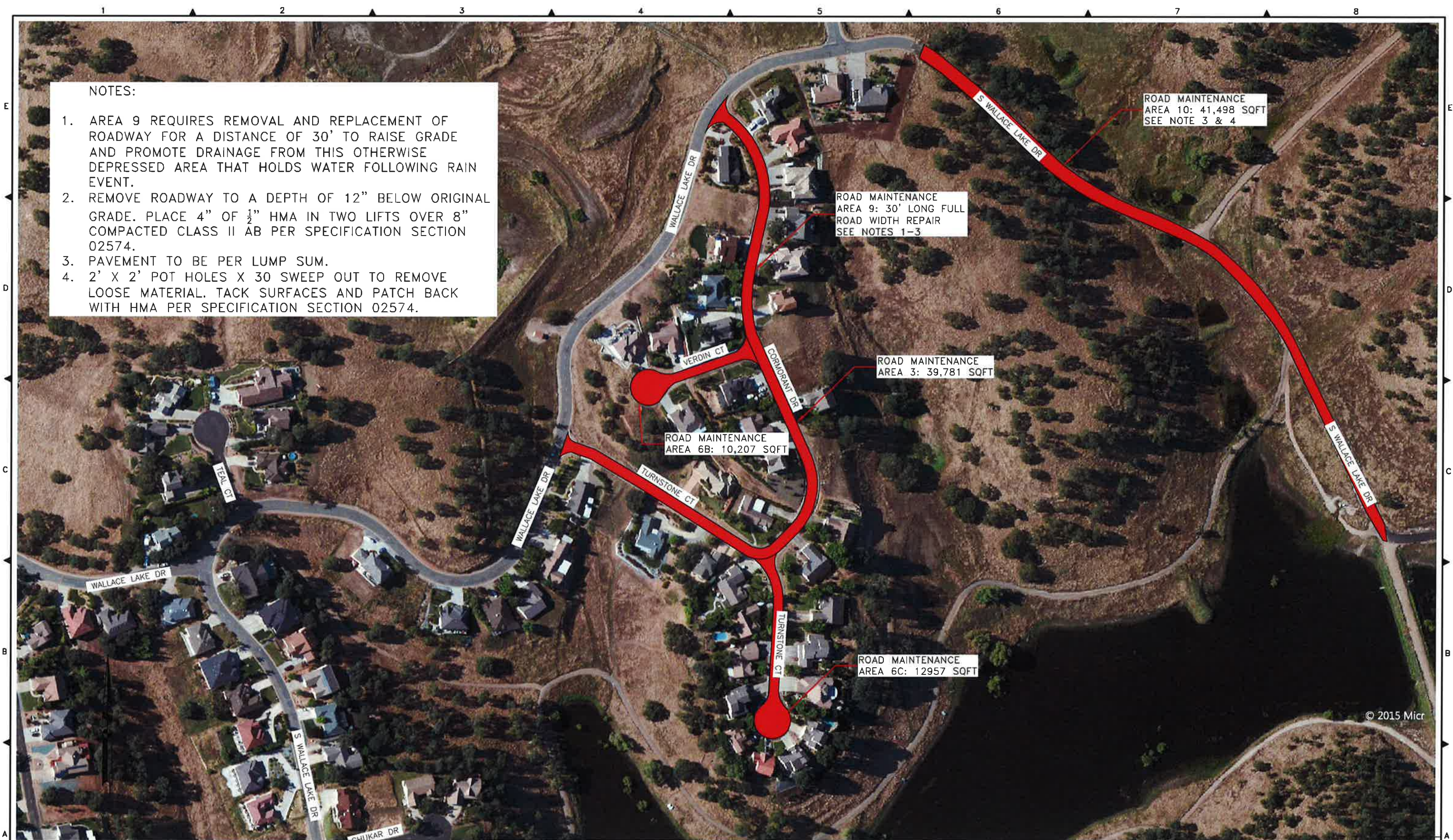
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PLOT DATE: Apr 27, 2016 - 1:52pm



- NOTES:
1. AREA 9 REQUIRES REMOVAL AND REPLACEMENT OF ROADWAY FOR A DISTANCE OF 30' TO RAISE GRADE AND PROMOTE DRAINAGE FROM THIS OTHERWISE DEPRESSED AREA THAT HOLDS WATER FOLLOWING RAIN EVENT.
 2. REMOVE ROADWAY TO A DEPTH OF 12" BELOW ORIGINAL GRADE. PLACE 4" OF 1/2" HMA IN TWO LIFTS OVER 8" COMPACTED CLASS II AB PER SPECIFICATION SECTION 02574.
 3. PAVEMENT TO BE PER LUMP SUM.
 4. 2' X 2' POT HOLES X 30 SWEEP OUT TO REMOVE LOOSE MATERIAL. TACK SURFACES AND PATCH BACK WITH HMA PER SPECIFICATION SECTION 02574.

ROAD MAINTENANCE
AREA 10: 41,498 SQFT
SEE NOTE 3 & 4

ROAD MAINTENANCE
AREA 9: 30' LONG FULL
ROAD WIDTH REPAIR
SEE NOTES 1-3

ROAD MAINTENANCE
AREA 3: 39,781 SQFT

ROAD MAINTENANCE
AREA 6B: 10,207 SQFT

ROAD MAINTENANCE
AREA 6C: 12,957 SQFT

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**PAVEMENT MAINTENANCE
AREA 3, 6B, 6C, 9, 10**

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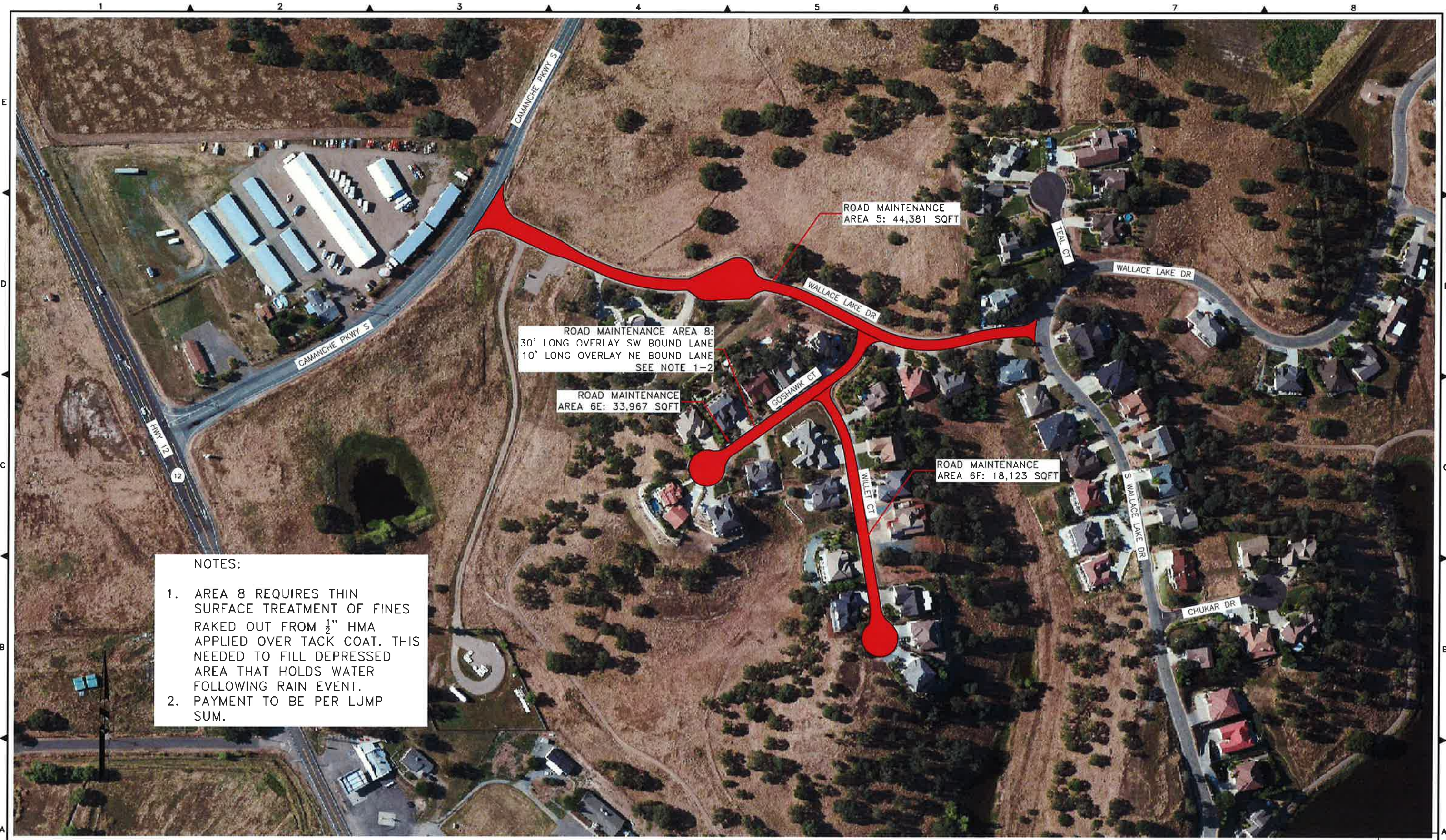
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PLOT DATE: Apr 27, 2016 - 1:56pm



- NOTES:
1. AREA 8 REQUIRES THIN SURFACE TREATMENT OF FINES RAKED OUT FROM $\frac{1}{2}$ " HMA APPLIED OVER TACK COAT. THIS NEEDED TO FILL DEPRESSED AREA THAT HOLDS WATER FOLLOWING RAIN EVENT.
 2. PAYMENT TO BE PER LUMP SUM.



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CALAVERAS COUNTY, CALIFORNIA**

**PAVEMENT MAINTENANCE
AREA 5, 6E, 6F, 8**

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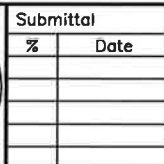
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WALLACE LAKE ESTATES
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CALAVERAS COUNTY, CALIFORNIA

PAVEMENT MAINTENANCE
WALK PATH AREA 7

Revisions					Design WZ	Scale	Date APRIL 2016
No.	Description	Date	By	Apprvd. By	Drawn WZ	1" = 100'	Sheet Number
						Original Drawing Scale	9 Of 9
					Check DCC	$0 \quad \frac{1}{2}'' \quad 1''$ 	Project File No. 2281-0010