

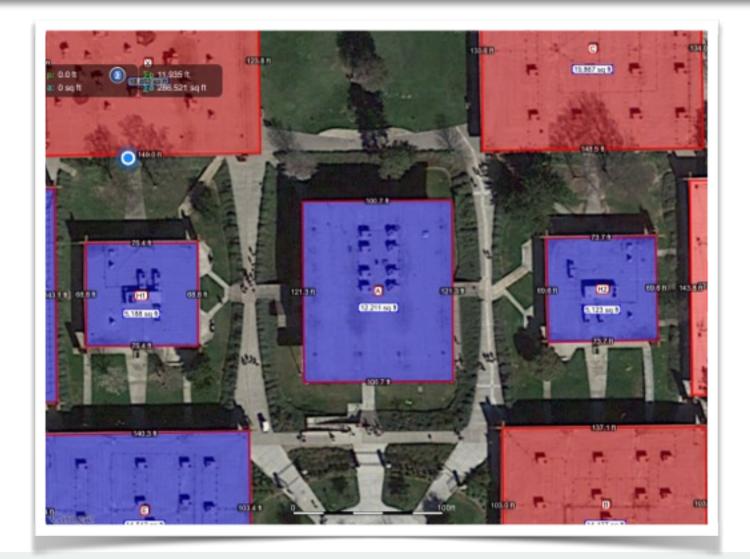


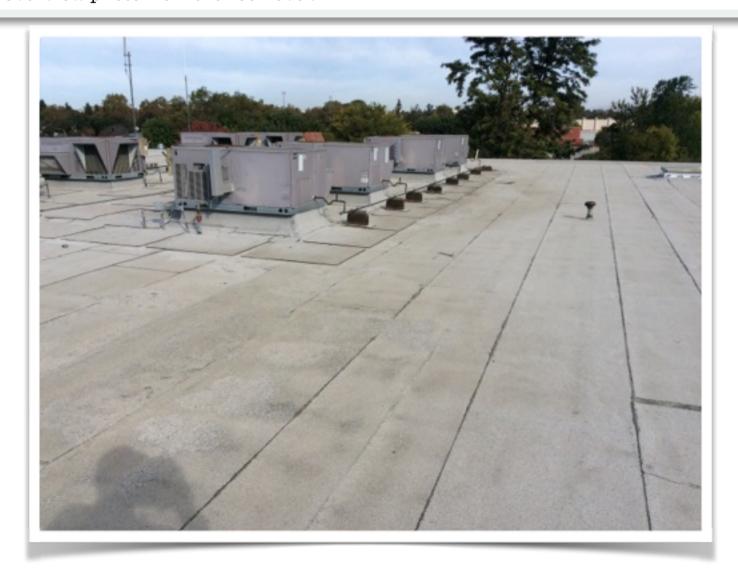
BUILDING	A Admin, H1, H2						E	N (G I N E E R I N NG SERVICES FOR THE BUILDING ENVE	G ELOPE
ROOF SQ FT	25,000							_		
ROOF CONSTRU	JCTION									
ROOF AGE	2002		0-5 YEARS		5-10 YEARS		10-15 YEARS		15+ YEARS	
DECK TYPE	METAL		PLYWOOD		PLANK		CONCRETE		LW CONCRETE	
INSULATION	NONE		ISO		FIBER		PERLITE		STYRO	
INSUL THICK	1 INCH		2 INCH		3 INCH		4 INCH		TAPERED	
MEMBRANE	METAL SS		SINGLE PLY		BUR	✓	MOD BIT		TWO SYSTEMS	
MEM SURFACE	COATING		MS CAP	~	GRAVEL		SMOOTH		GRANULE	
FLASHINGS	CAPSHEET		HYPALON							
DRAINAGE	JOSAM	✓	SCUPPERS		GUTTERS		OVER EDGE			
SLOPE	SLIGHT		1:12		2:12		3:12		6:12	
ROOF CONDITIO	ON - RATINGS (1-1	0) ar	nd RECOMMENDA	IOITA	NS					#
FIELD	,		EPAIRS NEEDED						RATING	3
			RESEAL SEAMS		LIGHT B	LIST	ERS or RIDGING	~	SS RATING	
	CLEA		OOF OF DEBRIS				REPAIR NEEDED			
			AIR SUSPECTED				ACE FASTENERS			
			RAZE CRACKING				TLE MEMBRANE			
			CESSIVE WEAR				BERS EXPOSED			
PITCH/POND			EPAIRS NEEDED		MEMBIXAN	V ∟ 1 1	BENS EXPOSED		RATING	6
THOM/TOND	F		ONDING AREAS		FIX	(DF	CK DEFLECTION		TATINO	
			SOME PONDING	I			SSIVE PONDING			
FLASHING		RE	EPAIRS NEEDED						RATING	6
		RES	EAL/REPAIR ALL		RES	EAL/	REPAIR SELECT		SS RATING	
	RESE	AL/RE	ECOAT AC DUCT		RE	SEA	L/RECOAT WALL			
	RES	EAL \	WALL FLASHING		WAL	L PL	YWOOD REPAIR			
DRAINAGE			PAIRS NEEDED						RATING	6
	ADD/E	ENHA	NCE CRICKETS		ADD/EN	IAHV	NCE OVERFLOW			
	CLITT	ED E	CLEAR DRAINS REPAIR NEEDED		CUTTE	D C	ADD GUTTER DATING NEEDED			
PENETRATION	GOTT		EPAIRS NEEDED		GOTTE	K CC	DATING NEEDED		RATING	5
			EAL/REPAIR ALL		RES	EAL/	REPAIR SELECT			
		REP	LACE SKYLIGHT		RAISE HEIG	HT V	VHEN POSSIBLE			
ADDITIONAL		A	CTION NEEDED							
	IMPF	ROVE	ROOF ACCESS		ADD	EXT	ERNAL LADDER			
			AD EQUIPMENT				HATCH NEEDED			
MAINTENANCE			DRAINS CLEAN		KEEP	WAT	ERWAYS CLEAN			
			UNTIL REROOF		1 1/1	/A 🔿 [TRIM TREES			
			OOF OF DEBRIS				REPAIR NEEDED GUTTERS CLEAR			
LEAKS			ENCE OF LEAKS		YES		NO			
		_			120		140			
VERY POOR	ON - OVERALL SY	O I EI	TATING		REDI ACE OD C	:OAT	IMMEDIATEIV (SPO	Γ REPAIRS ONLY	
POOR							Γ IN 1-2 YEARS - S			
FAIR					NEI LAGE OR (JUA		_	AT IN 3-5 YEARS	
MARGINAL									T IN 5-10 YEARS	
GOOD									IN 10-15 YEARS	
- COOD							TILL LAGE OR C	JUAI	IN TO-TO TEARS	

EXCELLENT

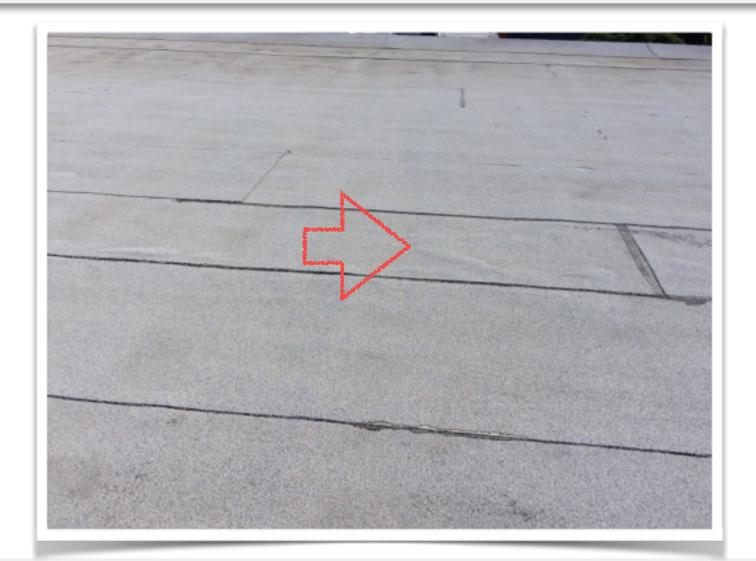
ROOFS ARE AGING WELL. MANAGE FOR ANOTHER FIVE YEARS OF LIFE. H1 and H2 DO NEED REPAIRS TO PENETRATIONS. A DOES NOT.

BUDGET ESTIMATES	
IMMEDIATE REPAIRS AS RECOMMENDED	\$5,000.00
YEARLY PREVENTIVE MAINENANCE	\$3,000.00
ROOF RECOATING	\$0.00
ROOF REPLACEMENT	\$375,000.00



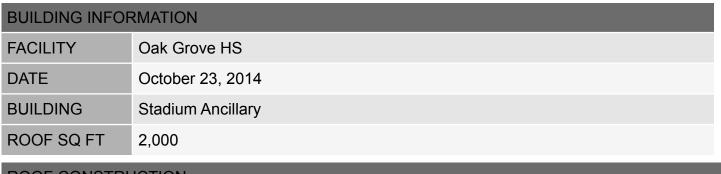


The photo below shows the first signs of ridging.



The photo below shows penetration details in need of repair on H1 and H2.



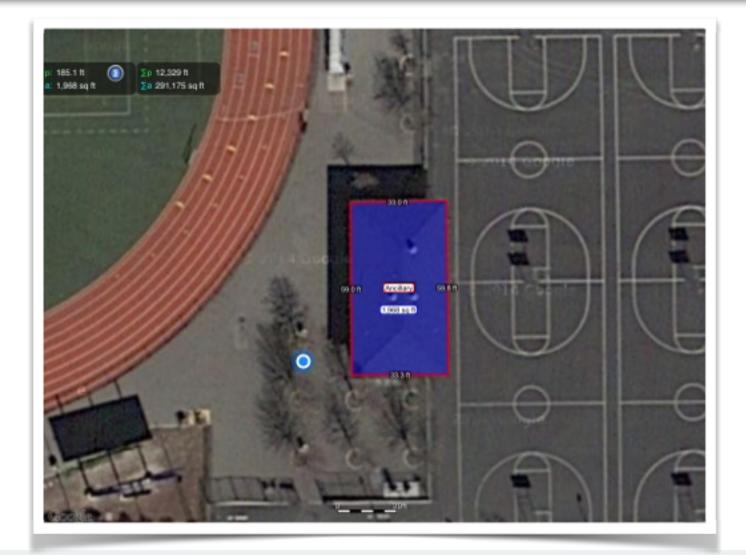




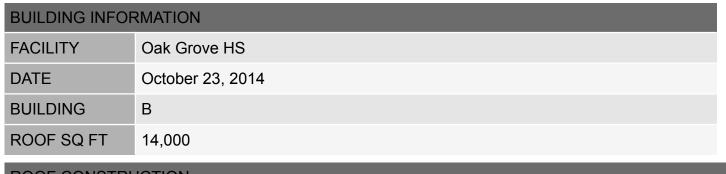
ROOF SQ FT	2,000						Б	VGIVEERIN	G SERVICES FOR THE BUILDING ENVE	ELOPE
ROOF CONSTRU	ICTION		_		_		_		_	_
ROOF AGE	2005	V	0-5 YEARS		5-10 YEARS		10-15 YEARS		15+ YEARS	
DECK TYPE	METAL		PLYWOOD		PLANK		CONCRETE		LW CONCRETE	
INSULATION	NONE		ISO		FIBER		PERLITE		STYRO	
INSUL THICK	1 INCH		2 INCH		3 INCH		4 INCH		TAPERED	
MEMBRANE	SHINGLE	_	SINGLE PLY		BUR		MOD BIT		TWO SYSTEMS	
			MS CAP		GRAVEL		SMOOTH			
MEM SURFACE	COATING				GRAVEL		SIVIOUTH		GRANULE	
FLASHINGS	CAPSHEET		HYPALON		OUTTER		0) (50 50 65			
DRAINAGE	JOSAM		SCUPPERS		GUTTERS	▼	OVER EDGE		0.40	
SLOPE	SLIGHT		1:12		2:12	V	3:12		6:12	
ROOF CONDITIO	ON - RATINGS (1-1	0) ar	d RECOMMENDA	IOITA	NS					#
FIELD		RE	PAIRS NEEDED						RATING	8
			RESEAL SEAMS		В	LISTI	ERS or RIDGING			
	CLEA	AR R	OOF OF DEBRIS		DE	CK R	EPAIR NEEDED			
	DECK I	REPA	AIR SUSPECTED		RESEAL/F	RPLA	CE FASTENERS			
		CR	AZE CRACKING		E	3RIT1	LE MEMBRANE			
		EX	CESSIVE WEAR		MEMBRAN	IE FIE	BERS EXPOSED			
PITCH/POND		RE	EPAIRS NEEDED						RATING	8
	F	ILL P	ONDING AREAS		FIX	(DEC	CK DEFLECTION			
		ę	SOME PONDING		E	XCES	SSIVE PONDING			
FLASHING		RE	EPAIRS NEEDED						RATING	8
		RES	EAL/REPAIR ALL		RES	EAL/F	REPAIR SELECT			
	RESEA	AL/RE	ECOAT AC DUCT		RE	SEAL	/RECOAT WALL			
	RESI	EAL \	WALL FLASHING		WAL	L PL	WOOD REPAIR			
DRAINAGE		RE	PAIRS NEEDED						RATING	8
	ADD/E	ENHA	NCE CRICKETS		ADD/EN	NHAN	ICE OVERFLOW			
			CLEAR DRAINS				ADD GUTTER			
	GUTT	ER F	REPAIR NEEDED		GUTTE	R CO	ATING NEEDED			_
PENETRATION			PAIRS NEEDED						RATING	8
			EAL/REPAIR ALL				REPAIR SELECT			
		REPI	LACE SKYLIGHT		RAISE HEIG	HIW	HEN POSSIBLE			
ADDITIONAL		۸	CTION NEEDED							
ADDITIONAL	IMPE		ROOF ACCESS		ADD	FYT	ERNAL LADDER			
			AD EQUIPMENT				HATCH NEEDED			
MAINTENANCE			DRAINS CLEAN				ERWAYS CLEAN			
			UNTIL REROOF				TRIM TREES			
			OOF OF DEBRIS		ΗV	/AC R	EPAIR NEEDED			
	H	IAZM	AT SUSPECTED		KEEP	SS G	UTTERS CLEAR			
LEAKS	E	VIDE	ENCE OF LEAKS		YES		NO	√		
ROOF CONDITIO	ON - OVERALL SYS	STEN	A RATING							
VERY POOR					REPLACE OR C	COAT	IMMEDIATELY - S	SPO1	Γ REPAIRS ONLY	
POOR					REPLACE OR (COAT	IN 1-2 YEARS - S	SPOT	Γ REPAIRS ONLY	
FAIR							REPLACE OF	R CO	AT IN 3-5 YEARS	
MARGINAL									T IN 5-10 YEARS	
GOOD									IN 10-15 YEARS	
EXCELLENT					O	NLY			AN 5 YEARS OLD	

THIS SHINGLE ROOF LOOKS GOOD.

	BUDGET ESTIMATES
\$0.00	IMMEDIATE REPAIRS AS RECOMMENDED
\$0.00	YEARLY PREVENTIVE MAINENANCE
\$0.00	ROOF RECOATING
\$30,000.00	ROOF REPLACEMENT









BUILDING	В						E	NGIVEERIN	IG SERVICES FOR THE BUILDING ENVI	ELOPE
ROOF SQ FT	14,000							_		
ROOF CONSTRU	JCTION									
ROOF AGE	2001		0-5 YEARS		5-10 YEARS		10-15 YEARS		15+ YEARS	
DECK TYPE	METAL		PLYWOOD		PLANK		CONCRETE		LW CONCRETE	
INSULATION	NONE	S	ISO		FIBER		PERLITE		STYRO	
INSUL THICK	1 INCH		2 INCH		3 INCH		4 INCH		TAPERED	
MEMBRANE	METAL SS		SINGLE PLY		BUR	\	MOD BIT		TWO SYSTEMS	
MEM SURFACE	COATING		MS CAP		GRAVEL		SMOOTH		GRANULE	
FLASHINGS	CAPSHEET		HYPALON							
DRAINAGE	JOSAM	✓	SCUPPERS		GUTTERS		OVER EDGE			
SLOPE	SLIGHT	⋖	1:12		2:12		3:12		6:12	
ROOF CONDITIO	ON - RATINGS (1-1	0) ar	nd RECOMMENDA	IOITA	NS					#
FIELD		RE	EPAIRS NEEDED						RATING	5
			RESEAL SEAMS			5	SOME BLISTERS	V	SS RATING	
	CL EA		OOF OF DEBRIS		DE		REPAIR NEEDED			
			AIR SUSPECTED		RESEAL/E	RPI A	CE FASTENERS			
			RAZE CRACKING				TLE MEMBRANE			
			CESSIVE WEAR				BERS EXPOSED			
PITCH/POND			EPAIRS NEEDED		IVICIVIDICAL	NE FII	BERS EXPOSED		RATING	5
FITCH/FOND	F		ONDING AREAS		FIX	(DE(CK DEFLECTION		NATING	J
			SOME PONDING				SSIVE PONDING			
FLASHING		RE	EPAIRS NEEDED						RATING	6
		RES	EAL/REPAIR ALL		RES	EAL/	REPAIR SELECT		SS RATING	
	RESEA	AL/RE	ECOAT AC DUCT		RE	SEA	L/RECOAT WALL			
	RESI	EAL \	WALL FLASHING		WAL	L PL	YWOOD REPAIR			
DRAINAGE		RE	EPAIRS NEEDED						RATING	6
	ADD/E	ENHA	ANCE CRICKETS		ADD/E	NHAN	ICE OVERFLOW			
			CLEAR DRAINS		O. I.T.T.	5 00	ADD GUTTER			
PENETRATION	GUII		REPAIR NEEDED EPAIRS NEEDED		GUITE	R CC	DATING NEEDED		DATING	1
PENETRATION			EAL/REPAIR ALL		RES	ΕΔΙ/	REPAIR SELECT		RATING	4
			LACE SKYLIGHT				WHEN POSSIBLE			
					10 1102 11210					
ADDITIONAL		Δ	CTION NEEDED							
	IMPF	ROVE	ROOF ACCESS		ADD	EXT	ERNAL LADDER			
	REMOV	E DE	AD EQUIPMENT		N	1EW	HATCH NEEDED			
MAINTENANCE	k	KEEP	DRAINS CLEAN		KEEP	WAT	ERWAYS CLEAN			
	SPOT RE	PAIR	UNTIL REROOF				TRIM TREES			
	CLEA	AR R	OOF OF DEBRIS		H\	/AC F	REPAIR NEEDED			
	ŀ	IAZIV	IAT SUSPECTED		KEEP	SS G	UTTERS CLEAR			
LEAKS	E	EVIDI	ENCE OF LEAKS		YES		NO	V		
ROOF CONDITIO	ON - OVERALL SY	STEN	M RATING							
VERY POOR					REPLACE OR C	COAT	IMMEDIATELY - S	SPO	FREPAIRS ONLY	
POOR					REPLACE OR (COAT	IN 1-2 YEARS - S	SPO	Γ REPAIRS ONLY	
FAIR							REPLACE OF	R CO	AT IN 3-5 YEARS	
MARGINAL							REPLACE OR	COA	T IN 5-10 YEARS	
GOOD							REPLACE OR C	COAT	IN 10-15 YEARS	

EXCELLENT

ROOF IS AGING WELL. MANAGE FOR ANOTHER THREE TO FIVE YEARS OF LIFE.

BUDGET ESTIMATES	
IMMEDIATE REPAIRS AS RECOMMENDED	\$3,000.00
YEARLY PREVENTIVE MAINENANCE	\$1,500.00
ROOF RECOATING	\$0.00
ROOF REPLACEMENT	\$210,000.00





The photo below shows the first signs of craze cracking.



The photo below shows an open hole in the penetration corner.



BUILDING INFOR	RMATION
FACILITY	Oak Grove HS
DATE	October 23, 2014
BUILDING	C
ROOF SQ FT	20,000
DOOF CONCED	



BUILDING	С						E B	NGIVEERIN	G I N E E K I N NG SERVICES FOR THE BUILDING ENVE	ELOPE
ROOF SQ FT	20,000							_		4
ROOF CONSTRU	JCTION									
ROOF AGE	2004	✓	0-5 YEARS		5-10 YEARS		10-15 YEARS		15+ YEARS	
DECK TYPE	METAL		PLYWOOD	\checkmark	PLANK		CONCRETE		LW CONCRETE	
INSULATION	NONE	✓	ISO		FIBER		PERLITE		STYRO	
INSUL THICK	1 INCH		2 INCH		3 INCH		4 INCH		TAPERED	
MEMBRANE	METAL SS		SINGLE PLY		BUR	✓	MOD BIT		TWO SYSTEMS	
MEM SURFACE	COATING		MS CAP	\checkmark	GRAVEL		SMOOTH		GRANULE	
FLASHINGS	CAPSHEET	✓	HYPALON							
DRAINAGE	JOSAM	✓	SCUPPERS		GUTTERS		OVER EDGE			
SLOPE	SLIGHT	✓	1:12		2:12		3:12		6:12	
ROOF CONDITIO	ON - RATINGS (1-1	0) ar	nd RECOMMENDA	OITA	NS					#
FIELD		RI	EPAIRS NEEDED						RATING	6
			RESEAL SEAMS			(SOME BLISTERS		SS RATING	
	CLEA	AR R	OOF OF DEBRIS		DE	CK F	REPAIR NEEDED			
			AIR SUSPECTED		RESEAL/F	RPLA	ACE FASTENERS			
			RAZE CRACKING	7			TLE MEMBRANE			
			CESSIVE WEAR				BERS EXPOSED			
PITCH/POND			EPAIRS NEEDED		MEMBIAN	.	BENO EXI OOEB		RATING	7
1110111110111	F		ONDING AREAS		FIX	(DE	CK DEFLECTION		10,11110	'
			SOME PONDING				SSIVE PONDING			
FLASHING		RI	EPAIRS NEEDED						RATING	7
		RES	EAL/REPAIR ALL		RES	EAL/	REPAIR SELECT		SS RATING	
	RESEA	AL/RI	ECOAT AC DUCT		RE	SEA	L/RECOAT WALL			
	RESE	AL W	ALL CAP FLASH		WAL	L PL	YWOOD REPAIR			
DRAINAGE		RI	EPAIRS NEEDED						RATING	7
	ADD/E	ENHA	ANCE CRICKETS		ADD/EN	1AH	NCE OVERFLOW			
	CUTT	r	CLEAR DRAINS		OUTTE	D 00	ADD GUTTER			
PENETRATION	GUII		REPAIR NEEDED EPAIRS NEEDED		GUITE	K CC	DATING NEEDED		RATING	6
TENETIMION			EAL/REPAIR ALL		RES	FAI/	REPAIR SELECT		RATINO	U
			LACE SKYLIGHT				VHEN POSSIBLE			
ADDITIONAL		P	ACTION NEEDED							
	IMPF	ROVE	ROOF ACCESS		ADD	EXT	ERNAL LADDER			
	REMOV	E DE	AD EQUIPMENT		N	IEW	HATCH NEEDED			
MAINTENANCE	k	KEEF	DRAINS CLEAN		KEEP	WAT	ERWAYS CLEAN			
			UNTIL REROOF				TRIM TREES			
			OOF OF DEBRIS			_	REPAIR NEEDED	✓		
			IAT SUSPECTED			SS G	SUTTERS CLEAR			
LEAKS	E	EVID	ENCE OF LEAKS		YES		NO	V		
	ON - OVERALL SY	STE	RATING							
VERY POOR							IMMEDIATELY - S			
POOR					REPLACE OR (COAT	Γ IN 1-2 YEARS - S			
FAIR									OAT IN 3-5 YEARS	
MARGINAL									AT IN 5-10 YEARS	
GOOD							REPLACE OR C	CAT	IN 10-15 YEARS	

EXCELLENT

ROOF IS AGING WELL. MANAGE TO GET ANOTHER FIVE YEARS OF LIFE.

BUDGET ESTIMATES	
IMMEDIATE REPAIRS AS RECOMMENDED	\$0.00
YEARLY PREVENTIVE MAINENANCE	\$1,500.00
ROOF RECOATING	\$0.00
ROOF REPLACEMENT	\$300,000.00





The photo below shows the roof aging with craze cracking on the penetration details.



More than one AC unit needs repair and is leaking directly onto the roof.



BUILDING INFOR	RMATION
FACILITY	Oak Grove HS
DATE	October 23, 2014
BUILDING	D
ROOF SQ FT	12,000
DOOF CONCTRI	ICTION



REPLACE OR COAT IN 5-10 YEARS

REPLACE OR COAT IN 10-15 YEARS

ONLY IF ROOF IS LESS THAN 5 YEARS OLD

DOILDING	Ь						E	NGIVEERIN	IG SERVICES FOR THE BUILDING ENVE	LOPE
ROOF SQ FT	12,000							_		
ROOF CONSTRU	JCTION									
ROOF AGE	2012	\	0-5 YEARS		5-10 YEARS		10-15 YEARS		15+ YEARS	
DECK TYPE	METAL	\	PLYWOOD		PLANK		CONCRETE		LW CONCRETE	
INSULATION	NONE		ISO	\	FIBER		PERLITE		STYRO	
INSUL THICK	1 INCH		2 INCH	✓	3 INCH		4 INCH		TAPERED	
MEMBRANE	METAL SS		SINGLE PLY		BUR		MOD BIT		TWO SYSTEMS	
MEM SURFACE	COATING		WHT MS CAP	✓	GRAVEL		SMOOTH		GRANULE	
FLASHINGS	CAPSHEET	~	HYPALON							
DRAINAGE	JOSAM	~	SCUPPERS		GUTTERS		OVER EDGE			
SLOPE	SLIGHT		1:12		2:12		3:12		6:12	
ROOF CONDITIO	N - RATINGS (1-1	0) ar	Id RECOMMENDA	ATIOIT2	NS		_			#
FIELD) COMITATION		EPAIRS NEEDED		10				RATING	7
FIELD							SOME BLISTERS		SS RATING	•
	01.54		RESEAL SEAMS		DE		REPAIR NEEDED		JO NATINO	
			OOF OF DEBRIS							
	DECK		AIR SUSPECTED				CE FASTENERS			
			AZE CRACKING		E	3RIT	TLE MEMBRANE			
		EX	CESSIVE WEAR		MEMBRAN	IE FI	BERS EXPOSED			
PITCH/POND		RE	EPAIRS NEEDED						RATING	8
	F		ONDING AREAS				CK DEFLECTION			
		,	SOME PONDING		E	XCE	SSIVE PONDING			
EL AGUING		D.							DATINIO	0
FLASHING			EPAIRS NEEDED		DEC	⊏∧ ι/			RATING	8
			EAL/REPAIR ALL ECOAT AC DUCT				REPAIR SELECT L/RECOAT WALL		SS RATING	
			ALL CAP FLASH				YWOOD REPAIR			
DRAINAGE	I LOL		EPAIRS NEEDED		VV/\L	' -	TWOOD RELITAIN		RATING	8
	ADD/E	ENHA	NCE CRICKETS		ADD/EN	1AH	NCE OVERFLOW			
			CLEAR DRAINS				ADD GUTTER			
	GUTT	ER F	REPAIR NEEDED		GUTTE	R CC	DATING NEEDED			
PENETRATION		RE	PAIRS NEEDED	⋖					RATING	5
		RES	EAL/REPAIR ALL		RES	EAL/	REPAIR SELECT	✓		
		REP	LACE SKYLIGHT		RAISE HEIG	HT V	VHEN POSSIBLE			
ADDITIONAL		A	CTION NEEDED							
			ROOF ACCESS				ERNAL LADDER			
			AD EQUIPMENT				HATCH NEEDED			
MAINTENANCE			DRAINS CLEAN		KEEP	WAT	ERWAYS CLEAN			
			UNTIL REROOF OOF OF DEBRIS		LI	/A C [TRIM TREES REPAIR NEEDED			
			AT SUSPECTED				SUTTERS CLEAR			
LEAKS			ENCE OF LEAKS		YES		NO	_		
	ON - OVERALL SYS				120		140			
VERY POOR	M - OVERALL SY	OTEI\	TATING		REDI ACE OD C	:\\\T		SPO	Γ REPAIRS ONLY	
POOR									TREPAIRS ONLY	
					NEFLAGE UK (JUAI				
FAIR							REPLACE OF	.	AT IN 3-5 YEARS	

ADDITIONAL NOTES

MARGINAL

EXCELLENT

GOOD

ROOF IS NEW HOWEVER SOME OF THE PENETRATION SEAMS ARE FAILING. HAVE CONTRACTOR REPAIR UNDER WARRANTY. BLISTERS TOO SMALL TO REPAIR - INSPECT PERIODICALLY AND ESPECIALLY BEFORE THE CONTRACTORS WARRANTY IS UP.

	BUDGET ESTIMATES
WARRANTY REPAIRS	IMMEDIATE REPAIRS AS RECOMMENDED
\$1,500.00	YEARLY PREVENTIVE MAINENANCE
\$0.00	ROOF RECOATING
\$180,000.00	ROOF REPLACEMENT

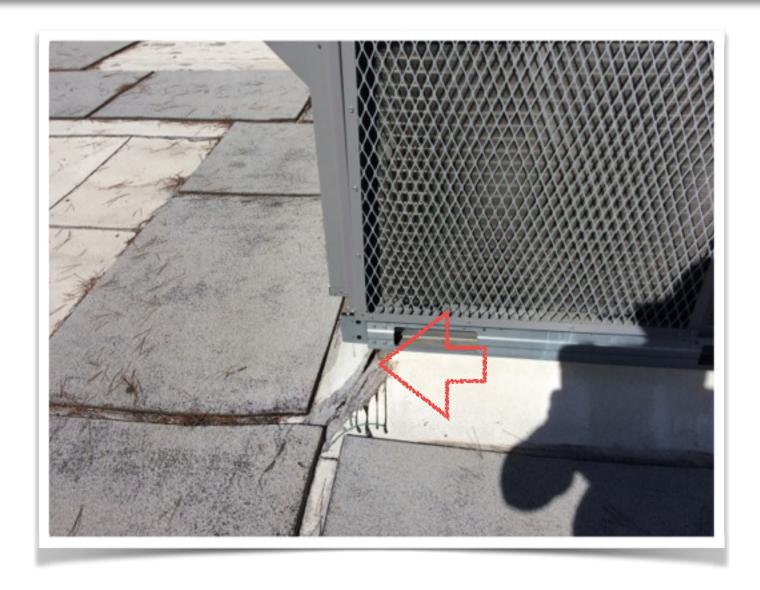




The photo below shows some small blistering.



The photo below shows an open hole in the penetration corner.



BUILDING INFORMATION										
FACILITY	Oak Grove HS									
DATE	October 23, 2014									
BUILDING	E and G									
ROOF SQ FT	26,000									



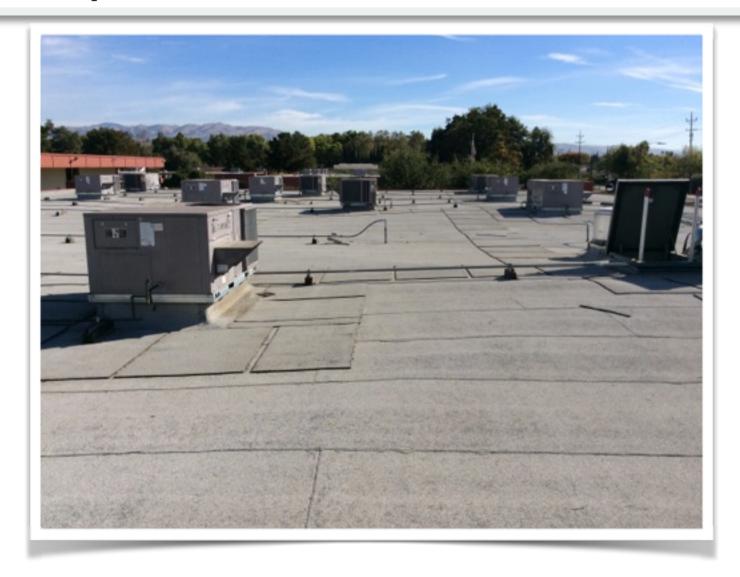
BUILDING	E and G						E	NGIVEERIN	G I N E E R I N NG SERVICES FOR THE BULLDING ENVI	ELOPE
ROOF SQ FT	26,000								TO COMMISSION OF THE COMMISSIO	
ROOF CONSTRU	JCTION									
ROOF AGE	2001	⋖	0-5 YEARS		5-10 YEARS		10-15 YEARS		15+ YEARS	
DECK TYPE	METAL		PLYWOOD	✓	PLANK		CONCRETE		LW CONCRETE	
INSULATION	NONE		ISO		FIBER		PERLITE		STYRO	
INSUL THICK	1 INCH		2 INCH		3 INCH		4 INCH		TAPERED	
MEMBRANE	METAL SS		SINGLE PLY		BUR	✓	MOD BIT		TWO SYSTEMS	
MEM SURFACE	COATING		MS CAP	✓	GRAVEL		SMOOTH		GRANULE	
FLASHINGS	CAPSHEET		HYPALON							
DRAINAGE	JOSAM	✓	SCUPPERS		GUTTERS		OVER EDGE			
SLOPE	SLIGHT	✓	1:12		2:12		3:12		6:12	
ROOF CONDITIO)N - RATINGS (1-1	0) ar	nd RECOMMENDA	OITA	NS					#
FIELD		RE	EPAIRS NEEDED						RATING	5
			RESEAL SEAMS			(SOME BLISTERS	~	SS RATING	
	CLEA	AR R	OOF OF DEBRIS		DE		REPAIR NEEDED			
			AIR SUSPECTED				CE FASTENERS			
			RAZE CRACKING				TLE MEMBRANE			
			CESSIVE WEAR				BERS EXPOSED			
PITCH/POND					IVILIVIDITAL	VL II	BENS EXPOSED		RATING	5
THOM/TOND	REPAIRS NEEDED FILL PONDING AREAS				FIX	(DF(CK DEFLECTION		IVALINO	
	SOME PONDING						SSIVE PONDING			
	SOME TOMBING									
FLASHING	REPAIRS NEEDED								RATING	6
	RESEAL/REPAIR ALL				RES	EAL/	REPAIR SELECT		SS RATING	
	RESEAL/RECOAT AC DUCT				RE	SEA	L/RECOAT WALL			
	RES	EAL \	WALL FLASHING		WAL	L PL	YWOOD REPAIR			
DRAINAGE			EPAIRS NEEDED						RATING	6
	ADD/E	ENH <i>A</i>	NCE CRICKETS		ADD/E	IAHV	NCE OVERFLOW			
	CUTT	ED E	CLEAR DRAINS REPAIR NEEDED		CUTTE	D C(ADD GUTTER DATING NEEDED			
PENETRATION	GUTT		EPAIRS NEEDED		GUITE	K CC	DATING NEEDED		RATING	6
LINETTOTTOTT			EAL/REPAIR ALL		RES	EAL/	REPAIR SELECT		1001110	
			LACE SKYLIGHT				VHEN POSSIBLE			
ADDITIONAL		Α	CTION NEEDED							
	IMPF	ROVE	ROOF ACCESS		ADD	EXT	ERNAL LADDER			
	REMOV	E DE	AD EQUIPMENT		N	1EM	HATCH NEEDED			
MAINTENANCE	k	KEEP	DRAINS CLEAN		KEEP	WAT	ERWAYS CLEAN			
			UNTIL REROOF				TRIM TREES			
	CLEAR ROOF OF DEBRIS						REPAIR NEEDED			
LEVIC			AT SUSPECTED			SSG	SUTTERS CLEAR NO			
LEAKS		_	ENCE OF LEAKS		YES		NO	•		
	ON - OVERALL SY	21EN	RATING			C A T			T DEDAIDS ONLY	
VERY POOR POOR									T REPAIRS ONLY T REPAIRS ONLY	
					NEFLACE UK (JUA			OAT IN 3-5 YEARS	
FAIR									AT IN 5-10 YEARS	
MARGINAL GOOD									IN 10-15 YEARS	
EXCELLENT						NII V	IF ROOF IS LESS			

EXCELLENT

ROOF IS AGING WELL. MANAGE FOR ANOTHER FIVE YEARS OF LIFE.

BUDGET ESTIMATES	
IMMEDIATE REPAIRS AS RECOMMENDED	\$0.00
YEARLY PREVENTIVE MAINENANCE	\$1,500.00
ROOF RECOATING	\$0.00
ROOF REPLACEMENT	\$390,000.00





The photo below shows the first signs of craze cracking.



Two AC units are leaking onto the roof and need repais.







BOILDING	1							NGINEERIN	NG SERVICES FOR THE BUILDING ENVE	LOPE
ROOF SQ FT	26,000									
ROOF CONSTRU	JCTION									
ROOF AGE	2001		0-5 YEARS		5-10 YEARS		10-15 YEARS		15+ YEARS	
DECK TYPE	METAL		PLYWOOD	\checkmark	PLANK		CONCRETE		LW CONCRETE	
INSULATION	NONE	✓	ISO		FIBER		PERLITE		STYRO	
INSUL THICK	1 INCH		2 INCH		3 INCH		4 INCH		TAPERED	
MEMBRANE	METAL SS		SINGLE PLY		BUR	\	MOD BIT		TWO SYSTEMS	
MEM SURFACE	COATING		MS CAP	\	GRAVEL		SMOOTH		GRANULE	
FLASHINGS	CAPSHEET		HYPALON							
DRAINAGE	JOSAM	✓	SCUPPERS		GUTTERS		OVER EDGE			
SLOPE	SLIGHT	✓	1:12		2:12		3:12		6:12	
ROOF CONDITIC	N - RATINGS (1-1	0) ar	nd RECOMMENDA	ATIOI	NS					#
FIELD	· ·		EPAIRS NEEDED						RATING	5
			RESEAL SEAMS				SOME BLISTERS		SS RATING	
	CI E		OOF OF DEBRIS		DE		REPAIR NEEDED			
	DECK		AIR SUSPECTED				ACE FASTENERS			
			RAZE CRACKING			3RIT	TLE MEMBRANE			
		EX	CESSIVE WEAR		MEMBRAN	IE FI	BERS EXPOSED			
PITCH/POND			EPAIRS NEEDED						RATING	5
	FILL PONDING AREAS				FIX DECK DEFLECTION			_		
	SOME PONDING				EXCESSIVE PONDING					
FLACLUNG									DATING	1
FLASHING	REPAIRS NEEDED				DEC	⊏ ∧1 /	REPAIR SELECT		RATING SS RATING	4
	RESEAL/REPAIR ALL RESEAL/RECOAT AC DUCT				RESEAL/RECOAT WALL				33 KATING	
			WALL FLASHING		WALL PLYWOOD REPAIR					
DRAINAGE	1120		EPAIRS NEEDED		****				RATING	4
	ADD/E	ENHA	ANCE CRICKETS	✓	ADD/E	IAH	NCE OVERFLOW			
			CLEAR DRAINS				ADD GUTTER			
	GUTT	ER F	REPAIR NEEDED		GUTTE	R C	DATING NEEDED			
PENETRATION		RI	EPAIRS NEEDED						RATING	4
		RES	EAL/REPAIR ALL		RES	EAL/	REPAIR SELECT			
		REP	LACE SKYLIGHT		RAISE HEIG	HT V	VHEN POSSIBLE			
ADDITIONAL		P	ACTION NEEDED							
		_	ROOF ACCESS				ERNAL LADDER			
			AD EQUIPMENT				HATCH NEEDED			
MAINTENANCE			DRAINS CLEAN		KEEP	WAI	ERWAYS CLEAN			
			OOF OF DEBRIS	_	TRIM TREES			_		
			IAT SUSPECTED				REPAIR NEEDED GUTTERS CLEAR			
LEAKS			ENCE OF LEAKS		YES					
					120		110			
VERY POOR	ON - OVERALL SY	OFE	WITATING		REPLACE OR C	ΩΔΤ		SPO	T REPAIRS ONLY	
POOR									T REPAIRS ONLY	
FAIR							_		OT REPAIR ONLY	
MARGINAL					NEFEAUE UR				AT IN 5-10 YEARS	
IVIARGINAL							REPLACE UR	CUA	TIN 5-10 TEARS	

GOOD

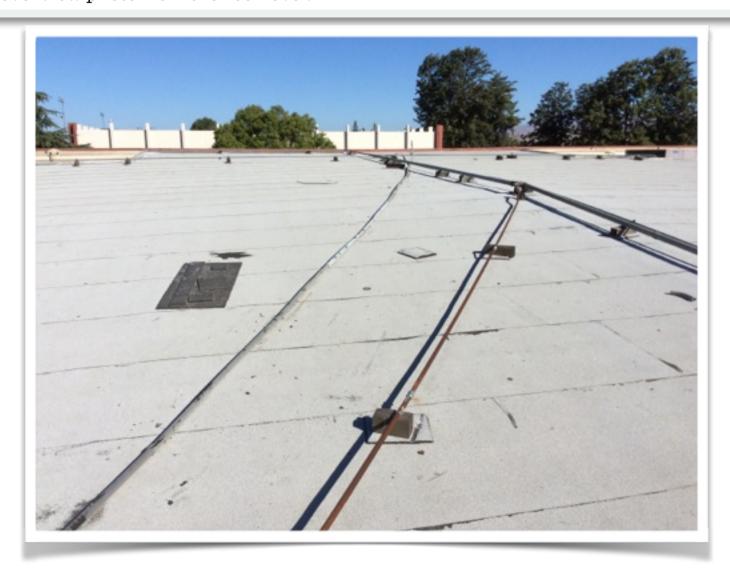
EXCELLENT

ROOF IS AGING. SPOT REPAIR ONLY - DOES NOT WARRANT A FULL SYSTEM REPAIR.

BUDGET ESTIMATES	
IMMEDIATE REPAIRS AS RECOMMENDED	\$0.00
YEARLY PREVENTIVE MAINENANCE	\$1,500.00
ROOF RECOATING	\$0.00
ROOF REPLACEMENT	\$390,000.00

REPLACE OR COAT IN 10-15 YEARS



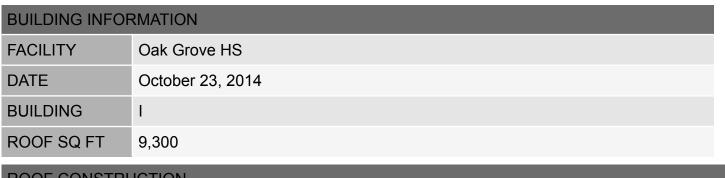


The photo below shows excessive ponding.



More signs of excessive ponding and repairs which point to leaks.







BOILDING	1							NGINEERIN	NG SERVICES FOR THE BUILDING ENVE	LOPE
ROOF SQ FT	9,300							_		
ROOF CONSTRU	JCTION									
ROOF AGE	2003	✓	0-5 YEARS		5-10 YEARS		10-15 YEARS		15+ YEARS	
DECK TYPE	METAL	\	PLYWOOD		PLANK		CONCRETE		LW CONCRETE	
INSULATION	NONE	✓	ISO		FIBER		PERLITE		STYRO	
INSUL THICK	1 INCH		2 INCH		3 INCH		4 INCH		TAPERED	
MEMBRANE	METAL SS		SINGLE PLY		BUR	✓	MOD BIT		TWO SYSTEMS	
MEM SURFACE	COATING		MS CAP	~	GRAVEL		SMOOTH		GRANULE	
FLASHINGS	CAPSHEET	~	HYPALON							
DRAINAGE	JOSAM	~	SCUPPERS		GUTTERS		OVER EDGE			
SLOPE	SLIGHT	~	1:12		2:12		3:12		6:12	
							_			#
)N - RATINGS (1-1			A1101	NS				RATING	
FIELD			EPAIRS NEEDED							5
			RESEAL SEAMS				ERS or RIDGING		SS RATING	
	CLEA	AR R	OOF OF DEBRIS		DE	CK I	REPAIR NEEDED			
	DECK	REP	AIR SUSPECTED		RESEAL/F	RPLA	ACE FASTENERS			
		CF	RAZE CRACKING	✓		3RIT	TLE MEMBRANE			
		ΕX	CESSIVE WEAR		MEMBRAN	IE FI	BERS EXPOSED			
PITCH/POND		RI	EPAIRS NEEDED						RATING	6
	F	ILL F	ONDING AREAS		FIX	(DE	CK DEFLECTION			
	SOME PONDING				EXCESSIVE PONDING					
FLASHING		RI	EPAIRS NEEDED	✓					RATING	6
	RESEAL/REPAIR ALL				RES	EAL/	REPAIR SELECT	✓	SS RATING	
	RESEA	AL/RI	ECOAT AC DUCT		RESEAL/RECOAT WALL					
	RES	EAL	WALL FLASHING		WAL	L PL	YWOOD REPAIR			
DRAINAGE			EPAIRS NEEDED						RATING	6
	ADD/E	ENHA	ANCE CRICKETS		ADD/E	IAH	NCE OVERFLOW			
	O. I.T.T.		CLEAR DRAINS		011775	D 04	ADD GUTTER			
DENIETDATION	GUII		REPAIR NEEDED		GUITE	R C	DATING NEEDED		DATINIO	
PENETRATION			EPAIRS NEEDED		DEC	□ ∧ 1 .			RATING	3
			EAL/REPAIR ALL LACE SKYLIGHT		RESEAL/REPAIR SELECT RAISE HEIGHT WHEN POSSIBLE					
		IXLF	LAGE SKILIGITI		NAISE TIEIG	III V	WILN FOSSIBLE			
ADDITIONAL		£	ACTION NEEDED							
7.0011101010	IMPF		ROOF ACCESS		ADD	EXT	ERNAL LADDER			
	REMOV	E DE	AD EQUIPMENT				HATCH NEEDED			
MAINTENANCE	k	KEEF	DRAINS CLEAN		KEEP	WAT	ERWAYS CLEAN			
	SPOT RE	PAIR	UNTIL REROOF				TRIM TREES			
	CLEA	AR R	OOF OF DEBRIS		HV	/AC I	REPAIR NEEDED			
	F	HAZN	1AT SUSPECTED		KEEP	SS G	SUTTERS CLEAR			
LEAKS	E	EVID	ENCE OF LEAKS		YES		NO	~		
ROOF CONDITIC	N - OVERALL SY	STE	M RATING							
VERY POOR					REPLACE OR C	COAT	IMMEDIATELY -	SPO ⁻	T REPAIRS ONLY	
POOR					REPLACE OR (COA	Γ IN 1-2 YEARS -	SPO ⁻	T REPAIRS ONLY	
FAIR							REPLACE OI	R CO	AT IN 3-5 YEARS	
MARGINAL									T IN 5-10 YEARS	~

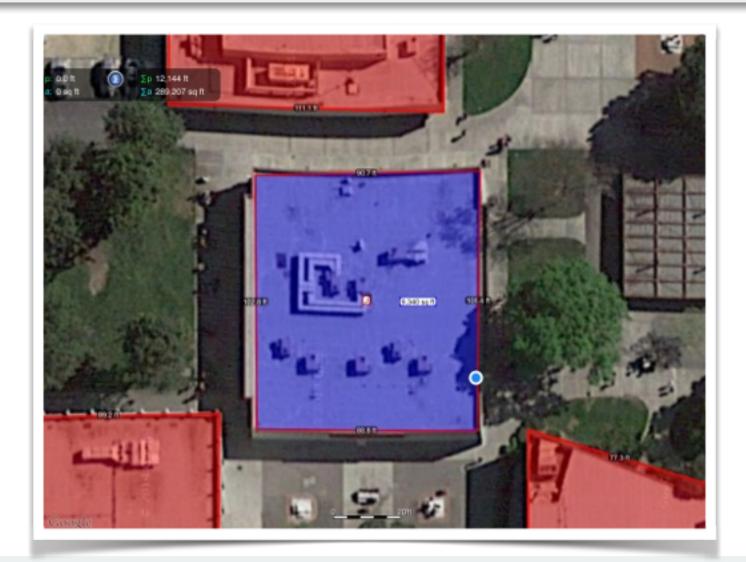
GOOD

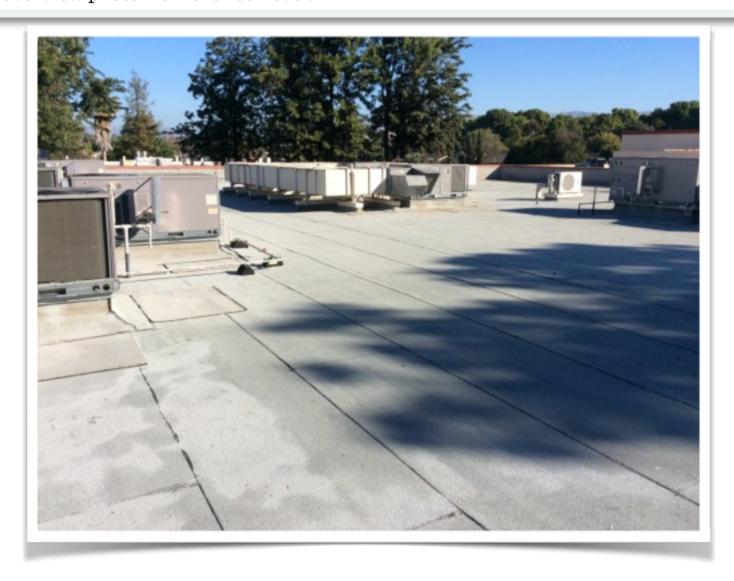
EXCELLENT

ROOFS IS AGING WELL. MANAGE FOR ANOTHER FIVE YEARS OF LIFE.

BUDGET ESTIMATES	
IMMEDIATE REPAIRS AS RECOMMENDED	\$3,000.00
YEARLY PREVENTIVE MAINENANCE	\$3,000.00
ROOF RECOATING	\$0.00
ROOF REPLACEMENT	\$139,500.00

REPLACE OR COAT IN 10-15 YEARS





The photo below shows aging with craze cracking - the penetration corners need repair.



The photo below shows that some wall laps need to be sealed.







BUILDING	Main Gymnasium						E	NGIVEERIN	NG SERVICES FOR THE BUILDING ENVE	ELOPE
ROOF SQ FT	28,000							_		
ROOF CONSTRU	UCTION									
ROOF AGE	2001		0-5 YEARS		5-10 YEARS		10-15 YEARS		15+ YEARS	
DECK TYPE	METAL		PLYWOOD	\	PLANK		CONCRETE		LW CONCRETE	
INSULATION	NONE		ISO		FIBER		PERLITE		STYRO	
INSUL THICK	1 INCH		2 INCH		3 INCH		4 INCH		TAPERED	
MEMBRANE	METAL SS		SINGLE PLY		BUR	✓	MOD BIT		TWO SYSTEMS	
MEM SURFACE	COATING		MS CAP		GRAVEL		SMOOTH		GRANULE	
FLASHINGS	CAPSHEET	4	HYPALON							
DRAINAGE	JOSAM		SCUPPERS		GUTTERS		OVER EDGE			
SLOPE	SLIGHT		1:12		2:12		3:12		6:12	
ROOF CONDITIO	ON - RATINGS (1-1	0) ar	nd RECOMMENDA	OITA	NS					#
FIELD			EPAIRS NEEDED						RATING	4
			RESEAL SEAMS				RIDGING	~	SS RATING	
	CI EA		OOF OF DEBRIS		DE	ECK I	REPAIR NEEDED			
			AIR SUSPECTED				ACE FASTENERS			
	5201(1		RAZE CRACKING				TLE MEMBRANE			
			CESSIVE WEAR							
PITCH/POND			EPAIRS NEEDED		MEMBRAN	NE FI	BERS EXPOSED		RATING	1
PITCH/POND			ONDING AREAS		EI	(DE	CK DEEI ECTION		RATING	4
	'		SOME PONDING		FIX DECK DEFLECTION EXCESSIVE PONDING					
			0011121110				00.17.2.1.01.12.11.10			
FLASHING		RE	EPAIRS NEEDED						RATING	4
	RESEAL/REPAIR ALL				RES	EAL/	REPAIR SELECT		SS RATING	
	RESEAL/RECOAT AC DUCT				RE	SEA	L/RECOAT WALL			
	RES	EAL \	WALL FLASHING		WAL	L PL	YWOOD REPAIR			
DRAINAGE		RE	EPAIRS NEEDED						RATING	4
	ADD/E	ENHA	ANCE CRICKETS	✓	ADD/EI	IAHV	NCE OVERFLOW			
			CLEAR DRAINS				ADD GUTTER			
DENIETDATION	GUTT		REPAIR NEEDED		GUTTE	R C	DATING NEEDED		DATINIO	4
PENETRATION			EPAIRS NEEDED EAL/REPAIR ALL		DEG		REPAIR SELECT		RATING	4
			LACE SKYLIGHT				WHEN POSSIBLE			
			, 10 0111		10.00211210					
ADDITIONAL		Δ	ACTION NEEDED							
	IMPF	ROVE	ROOF ACCESS		ADD	EXT	TERNAL LADDER			
	REMOV	E DE	AD EQUIPMENT		N	1EM	HATCH NEEDED			
MAINTENANCE	k	KEEP	DRAINS CLEAN		KEEP	WAT	ERWAYS CLEAN			
	SPOT REPAIR UNTIL REROOF						TRIM TREES			
		CLEAR ROOF OF DEBRIS					REPAIR NEEDED			
1 = 11/2			IAT SUSPECTED			SS G	SUTTERS CLEAR	_		
LEAKS			ENCE OF LEAKS		YES		NO	V		
	ON - OVERALL SY	STE	MRATING							
VERY POOR									T REPAIRS ONLY	
POOR							Γ IN 1-2 YEARS - \$			
FAIR					REPLACE OF	CO			OT REPAIR ONLY	
MARGINAL									AT IN 5-10 YEARS	
GOOD	REPLACE OR COAT IN 10-15 YEARS									

EXCELLENT

ROOF IS AGING. SPOT REPAIR ONLY - DOES NOT WARRANT A FULL SYSTEM REPAIR.

BUDGET ESTIMATES	
IMMEDIATE REPAIRS AS RECOMMENDED	\$0.00
YEARLY PREVENTIVE MAINENANCE	\$1,500.00
ROOF RECOATING	\$0.00
ROOF REPLACEMENT	\$420,000.00





The photo below shows ridging and evidence of excessive ponding.



Many of the flashings are in really poor condition and need to be redesigned.



BUILDING INFORMATION									
FACILITY	Oak Grove HS								
DATE	October 23, 2014								
BUILDING	P (ROTC)								
ROOF SQ FT	5,600								

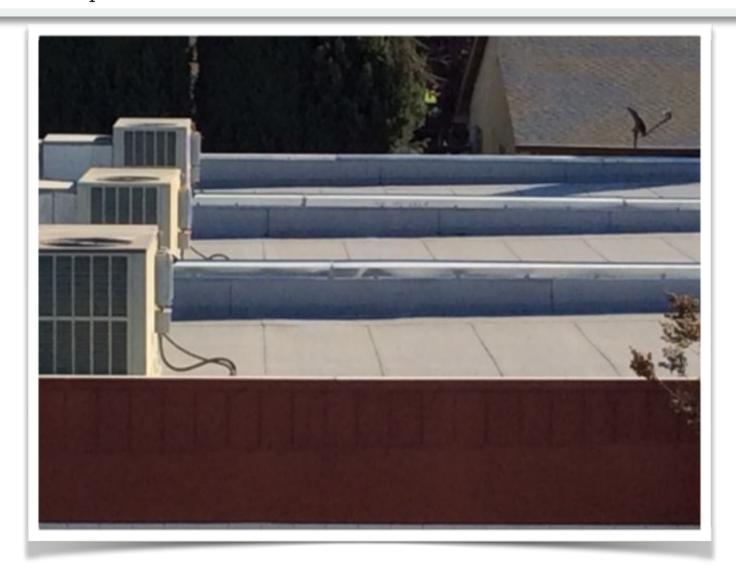


BUILDING	P (ROTC)						E E	N (G I N E E R I N NG SERVICES FOR THE BUILDING ENVE	ELOPE
ROOF SQ FT	5,600							_		
ROOF CONSTRU	JCTION									
ROOF AGE	2008	✓	0-5 YEARS		5-10 YEARS		10-15 YEARS		15+ YEARS	
DECK TYPE	METAL		PLYWOOD	\	PLANK		CONCRETE		LW CONCRETE	
INSULATION	NONE	⋖	ISO		FIBER		PERLITE		STYRO	
INSUL THICK	1 INCH		2 INCH		3 INCH		4 INCH		TAPERED	
MEMBRANE	METAL SS		SINGLE PLY		BUR		MOD BIT		TWO SYSTEMS	
MEM SURFACE	COATING		MS CAP	~	GRAVEL		SMOOTH		GRANULE	
FLASHINGS	CAPSHEET	~	HYPALON							
DRAINAGE	JOSAM		SCUPPERS	-	GUTTERS		OVER EDGE			
SLOPE	SLIGHT		1:12		2:12		3:12		6:12	
BOOF CONDITIO	ON - RATINGS (1-1						_			#
	JN - KATINGS (T-T				NO	-		-	RATING	6
FIELD			PAIRS NEEDED							
			RESEAL SEAMS				INS OF RIDGING		SS RATING	
			OOF OF DEBRIS		DE	CK F	REPAIR NEEDED			
	DECK	REPA	IR SUSPECTED		RESEAL/F	RPLA	CE FASTENERS			
		CR	AZE CRACKING		i i	3RIT	TLE MEMBRANE			
		EX	CESSIVE WEAR		MEMBRAN	IE FI	BERS EXPOSED			
PITCH/POND		RE	PAIRS NEEDED						RATING	5
	F	ILL P	ONDING AREAS		FIX DECK DEFLECTION					
		5	SOME PONDING	⋖	EXCESSIVE PONDING					
FLASHING	REPAIRS NEEDED								RATING	6
	RESEAL/REPAIR ALL				RES	EAL/	REPAIR SELECT		SS RATING	
	RESEA	AL/RE	COAT AC DUCT		RE	SEA	L/RECOAT WALL			
	RESI		VALL FLASHING		WAL	L PL	YWOOD REPAIR			_
DRAINAGE			PAIRS NEEDED						RATING	5
	ADD/E	:NHA	NCE CRICKETS		ADD/EI	NHAI	NCE OVERFLOW	✓		
	CUTT	·CD C	CLEAR DRAINS		CUTTE	D 00	ADD GUTTER			
PENETRATION	GOTT		EPAIR NEEDED EPAIRS NEEDED		GOTTE	K CC	DATING NEEDED		RATING	6
TENETIMION			EAL/REPAIR ALL		RES	ΕΔΙ /	REPAIR SELECT		IVATINO	U
			ACE SKYLIGHT				VHEN POSSIBLE			
ADDITIONAL		А	CTION NEEDED							
	IMPF	ROVE	ROOF ACCESS		ADD	EXT	ERNAL LADDER			
	REMOV	E DE	AD EQUIPMENT		N	1EW	HATCH NEEDED			
MAINTENANCE	k	KEEP	DRAINS CLEAN		KEEP	WAT	ERWAYS CLEAN			
	SPOT RE	PAIR	UNTIL REROOF				TRIM TREES			
	CLEA	AR RO	OOF OF DEBRIS		HV	/AC F	REPAIR NEEDED			
	F	IAZM	AT SUSPECTED		KEEP SS GUTTERS CLEAR					
LEAKS	E	EVIDE	ENCE OF LEAKS		YES		NO	✓		
ROOF CONDITIO	ON - OVERALL SY	STEN	1 RATING							
VERY POOR					REPLACE OR C	COAT	IMMEDIATELY - S	SPO	Γ REPAIRS ONLY	
POOR					REPLACE OR (COAT	Γ IN 1-2 YEARS - \$	SPO	Γ REPAIRS ONLY	
FAIR					REPLACE OR	COA	AT IN 3-5 YEARS -	SPC	OT REPAIR ONLY	
MARGINAL							REPLACE OR	COA	T IN 5-10 YEARS	✓
GOOD							REPLACE OR C	COAT	IN 10-15 YEARS	
EXCELLENT					C	NLY	IF ROOF IS LESS	TH/	AN 5 YEARS OLD	

ROOFS ARE IN MARGINAL CONDITION - WITH MANAGEMENT ANOTHER 10 YEARS OF LIFE IS POSSIBLE.

IDGET ESTIMATES	
IMMEDIATE REPAIRS AS RECOMMENDED	\$0.00
YEARLY PREVENTIVE MAINENANCE	\$1,500.00
ROOF RECOATING	\$0.00
ROOF REPLACEMENT	\$84,000.00









BUILDING	P1, P2 and P3, P	4					E	NGIVEERIN	G I N E E R I N US SERVICES FOR THE BUILDING ENVE	G ELOPE
ROOF SQ FT	4,700									
ROOF CONSTRUCTION										
ROOF AGE	UNKNOWN	✓	0-5 YEARS		5-10 YEARS		10-15 YEARS	✓	15+ YEARS	
DECK TYPE	METAL		PLYWOOD	✓	PLANK		CONCRETE		LW CONCRETE	
INSULATION	NONE	~	ISO		FIBER		PERLITE		STYRO	
INSUL THICK	1 INCH		2 INCH		3 INCH		4 INCH		TAPERED	
MEMBRANE	METAL SS		SINGLE PLY		BUR		MOD BIT		TWO SYSTEMS	
MEM SURFACE	COATING		MS CAP		GRAVEL		SMOOTH		GRANULE	
FLASHINGS	CAPSHEET		HYPALON							
DRAINAGE	JOSAM		SCUPPERS		GUTTERS	7	OVER EDGE			
SLOPE	SLIGHT		1:12		2:12		3:12		6:12	
							J. 1Z		0.12	
ROOF CONDITIO	DN - RATINGS (1-1			ATION	NS					#
FIELD		RE	EPAIRS NEEDED					_	RATING	5
			RESEAL SEAMS		FIRS	TSIG	INS OF RIDGING	✓	SS RATING	
	CLEA	AR R	OOF OF DEBRIS		DE	ECK F	REPAIR NEEDED			
	DECK	REPA	AIR SUSPECTED		RESEAL/F	RPLA	CE FASTENERS			
		CF	RAZE CRACKING		Ī	BRIT	TLE MEMBRANE			
		EX	CESSIVE WEAR		MEMBRANE FIBERS EXPOSED					
PITCH/POND		RE	EPAIRS NEEDED						RATING	5
	F	ILL P	ONDING AREAS		FIX	(DE(CK DEFLECTION			
		;	SOME PONDING		EXCESSIVE PONDING					
FLASHING		RE	EPAIRS NEEDED						RATING	5
		RES	EAL/REPAIR ALL		RES	EAL/	REPAIR SELECT		SS RATING	
	RESEA	AL/RE	ECOAT AC DUCT		RE	SEA	L/RECOAT WALL			
	RESI	EAL \	WALL FLASHING		WAL	L PL	YWOOD REPAIR			_
DRAINAGE			EPAIRS NEEDED						RATING	5
	ADD/E	ENH/	ANCE CRICKETS		ADD/E	1AHV	NCE OVERFLOW			
	0.177		CLEAR DRAINS		0.1775		ADD GUTTER			
DENETDATION	GUTT		REPAIR NEEDED		GUITE	R CC	DATING NEEDED		DATING	_
PENETRATION			EPAIRS NEEDED		DEC	ΕΛΙ /	REPAIR SELECT		RATING	5
	RESEAL/REPAIR ALL REPLACE SKYLIGHT						VHEN POSSIBLE			
		IXLI	LAGE GRIEIGITI		TAIGE HEIG	,,,,,	WILLIA I GOOLDEE			
ADDITIONAL		Δ	CTION NEEDED	7						
	IMPF		ROOF ACCESS		ADD	EXT	ERNAL LADDER			
	REMOV	E DE	AD EQUIPMENT	✓	Ŋ	1EW	HATCH NEEDED			
MAINTENANCE	k	KEEP	DRAINS CLEAN		KEEP	WAT	ERWAYS CLEAN			
	SPOT RE	PAIR	UNTIL REROOF				TRIM TREES			
	CLEA	AR R	OOF OF DEBRIS	~						
	F	IAZN	IAT SUSPECTED		KEEP	SS G	SUTTERS CLEAR			
LEAKS	E	EVIDI	ENCE OF LEAKS		YES		NO	\		
ROOF CONDITIO	ON - OVERALL SY	STE	M RATING							
VERY POOR					REPLACE OR C	COAT	IMMEDIATELY - S	SPO	T REPAIRS ONLY	
POOR					REPLACE OR COAT IN 1-2 YEARS - SPOT REPAIRS ONLY					
FAIR				REPLACE OR COAT IN 3-5 YEARS - SPOT REPAIR ONLY						\
MARGINAL				REPLACE OR COAT IN 5-10 YEARS						
GOOD									IN 10-15 YEARS	
EXCELLENT				ONLY IF ROOF IS LESS THAN 5 YEARS OLD						

ROOFS ARE RECORDED AS METAL STANDING SEAM BUT ARE IN FACT BUR.

BUDGET ESTIMATES	
IMMEDIATE REPAIRS AS RECOMMENDED	\$0.00
YEARLY PREVENTIVE MAINENANCE	\$1,500.00
ROOF RECOATING	\$0.00
ROOF REPLACEMENT	\$70,500.00





Keep the roofs clear of debris.



Remove heavy dead equipment from the roof.



BUILDING INFORMATION								
FACILITY	Oak Grove HS							
DATE	October 23, 2014							
BUILDING	PF0-PF23							
ROOF SQ FT 27,000								
DOOF CONCTRI								



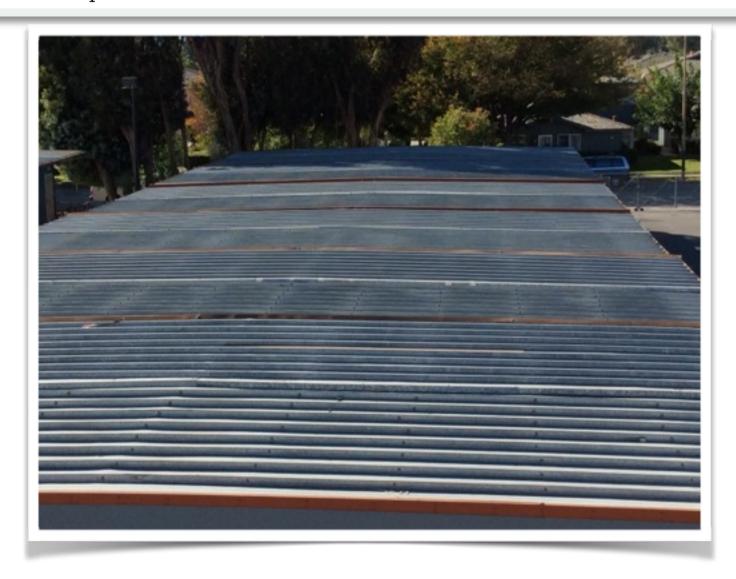
BUILDING	PFU-PF23							ENGINEERIN	NG SERVICES FOR THE BUILDING ENVE	LOPE
ROOF SQ FT	27,000							_		-
ROOF CONSTRU	JCTION									
ROOF AGE	UNKOWN	⋖	0-5 YEARS		5-10 YEARS		10-15 YEARS	✓	15+ YEARS	
DECK TYPE	METAL		PLYWOOD	✓	PLANK		CONCRETE		LW CONCRETE	
INSULATION	NONE		ISO		FIBER		PERLITE		STYRO	
INSUL THICK	1 INCH		2 INCH		3 INCH		4 INCH		TAPERED	
MEMBRANE	METAL SS	⋖	SINGLE PLY		BUR		MOD BIT		TWO SYSTEMS	
MEM SURFACE	COATING		MS CAP		GRAVEL		SMOOTH		GRANULE	
FLASHINGS	CAPSHEET		HYPALON							
DRAINAGE	JOSAM		SCUPPERS		GUTTERS	✓	OVER EDGE			
SLOPE	SLIGHT	~	1:12		2:12		3:12		6:12	
ROOF CONDITIO	DN - RATINGS (1-1	0) ar	od RECOMMENDA	1OIT	NS					#
FIELD)N - NATINOS (1-1		EPAIRS NEEDED		10				RATING	6
FIELD							DIDCINO		TOTHING	
	01 = 1		RESEAL SEAMS		DE	CK F	RIDGING			
			OOF OF DEBRIS				REPAIR NEEDED			
	DECK		AIR SUSPECTED		RESEAL/F	RPLA	CE FASTENERS			
		CF	RAZE CRACKING		E	3RIT	TLE MEMBRANE			
		EX	CESSIVE WEAR		MEMBRAN	IE FI	BERS EXPOSED			
PITCH/POND		RI	EPAIRS NEEDED						RATING	6
	FILL PONDING AREAS				FIX DECK DEFLECTION					
		,	SOME PONDING		Е	XCE	SSIVE PONDING			
FLASHING			EPAIRS NEEDED		DE0		DEDAID OF EAT		RATING	5
			EAL/REPAIR ALL				REPAIR SELECT			
			ECOAT AC DUCT				L/RECOAT WALL			
DRAINAGE	KESI		WALL FLASHING EPAIRS NEEDED		VVAL	L PL	YWOOD REPAIR		RATING	6
DIVAINAGE	ADD/F		ANCE CRICKETS		ADD/FI	ИДНИ	NCE OVERFLOW		NATING	U
	, 18872	_1 11 17	CLEAR DRAINS		7,00721	11 17 11	ADD GUTTER			
	GUTTER REPAIR NEEDED				GUTTE	R CC	DATING NEEDED			
PENETRATION		RI	EPAIRS NEEDED						RATING	-
		RES	EAL/REPAIR ALL		RES	EAL/	REPAIR SELECT			
		REP	LACE SKYLIGHT		RAISE HEIG	HT V	VHEN POSSIBLE			
ADDITIONAL		A	ACTION NEEDED							
	IMPF	ROVE	ROOF ACCESS		ADD	EXT	ERNAL LADDER			
	REMOV	E DE	AD EQUIPMENT		N	1EM	HATCH NEEDED			
MAINTENANCE	k	KEEP	DRAINS CLEAN		KEEP	WAT	ERWAYS CLEAN			
	SPOT RE	PAIR	UNTIL REROOF				TRIM TREES			
			OOF OF DEBRIS	✓			REPAIR NEEDED	_		
	F	IAZN	IAT SUSPECTED		KEEP	SS G	SUTTERS CLEAR	_		
LEAKS	E	EVIDI	ENCE OF LEAKS		YES		NO			
ROOF CONDITIO	ON - OVERALL SY	STE	M RATING							
VERY POOR					REPLACE OR C	COAT	IMMEDIATELY -	SPO	T REPAIRS ONLY	
POOR					REPLACE OR (COAT	Γ IN 1-2 YEARS -	SPO	T REPAIRS ONLY	
FAIR					REPLACE OR COAT IN 3-5 YEARS - SPOT REPAIR ONLY					
MARGINAL							REPLACE OF	COA	AT IN 5-10 YEARS	✓
GOOD							REPLACE OR	COAT	IN 10-15 YEARS	

EXCELLENT

THE METAL ROOFS LOOK GOOD - ONE POSITIVE THING THAT COMES FROM A DROUGHT - THEY SHOULD BE OVER DUE FOR A COATING. KEEP THE ROOFS FREE OF DEBRIS AND COAT AT THE FIRST SIGN OF RUST.

BUDGET ESTIMATES	
IMMEDIATE REPAIRS AS RECOMMENDED	\$0.00
YEARLY PREVENTIVE MAINENANCE	\$2,000.00
ROOF RECOATING	\$270,000.00
ROOF REPLACEMENT	\$0.00





The photo below shows the roofs in good shape - no signs of rust.



Keep roofs clear of debris.







BUILDING	Poor Equipment							NGINEERIN	NG SERVICES FOR THE BUILDING ENVE	ELOPE
ROOF SQ FT	1,000									
ROOF CONSTRU	JCTION									
ROOF AGE	UNKNOWN	V	0-5 YEARS		5-10 YEARS		10-15 YEARS		15+ YEARS	V
DECK TYPE	METAL		PLYWOOD	~	PLANK		CONCRETE		LW CONCRETE	
INSULATION	NONE	-	ISO		FIBER		PERLITE		STYRO	
INSUL THICK	1 INCH		2 INCH		3 INCH		4 INCH		TAPERED	
MEMBRANE	SHINGLE		SINGLE PLY		BUR		MOD BIT		TWO SYSTEMS	
MEM SURFACE	COATING		MS CAP	✓	GRAVEL		SMOOTH		GRANULE	
FLASHINGS	CAPSHEET		HYPALON							
DRAINAGE	JOSAM		SCUPPERS		GUTTERS		OVER EDGE			
SLOPE	SLIGHT		1:12		2:12		3:12		6:12	
ROOF CONDITIO	ON - RATINGS (1-1	0) an	d RECOMMENDA	ATIOI	NS					#
FIELD		RE	PAIRS NEEDED						RATING	3
		F	RESEAL SEAMS		В	LISTI	ERS or RIDGING	~	S RATING	6
	CLEA	AR RO	OOF OF DEBRIS		DE	CK F	REPAIR NEEDED			
	DECK	REPA	IR SUSPECTED		RESEAL/E	RPI A	CE FASTENERS			
			AZE CRACKING	I			TLE MEMBRANE	_		
			CESSIVE WEAR							
DITOU L/DOND					MEMBRAN	NE FIL	BERS EXPOSED		DATINIO	_
PITCH/POND	_		PAIRS NEEDED		ΕN	/ DE (N DEEL FOTION		RATING	5
	F		ONDING AREAS				CK DEFLECTION			
		3	SOME PONDING		E	XUE	SSIVE PONDING			
FLASHING		DE	PAIRS NEEDED						RATING	2
FLASHING			EAL/REPAIR ALL		DEQ	⊏ ΛΙ/[REPAIR SELECT		S RATING	
			COAT AC DUCT				_/RECOAT WALL		SIVALING	_
			VALL FLASHING				YWOOD REPAIR			
DRAINAGE	. (20.		PAIRS NEEDED		VV/ \L				RATING	6
	ADD/F		NCE CRICKETS		ADD/EI	NHAN	ICE OVERFLOW		701770	
			CLEAR DRAINS				ADD GUTTER			
	GUTT	ER R	EPAIR NEEDED		GUTTE	R CC	ATING NEEDED			
PENETRATION		RE	PAIRS NEEDED						RATING	4
	A	RESE	EAL/REPAIR ALL		RES	EAL/I	REPAIR SELECT			
		REPL	ACE SKYLIGHT		RAISE HEIG	HT W	HEN POSSIBLE			
ADDITIONAL		Α	CTION NEEDED							
	IMPF	ROVE	ROOF ACCESS	\	ADD	EXT	ERNAL LADDER	\		
	REMOV	E DE	AD EQUIPMENT		N	IEW I	HATCH NEEDED			
MAINTENANCE	k	KEEP	DRAINS CLEAN		KEEP	WATI	ERWAYS CLEAN			
	SPOT RE	PAIR	UNTIL REROOF	⋖			TRIM TREES			
	CLEA	AR RO	OOF OF DEBRIS	✓	HV	/AC F	REPAIR NEEDED			
	F	łAZM.	AT SUSPECTED		KEEP	SS G	UTTERS CLEAR			
LEAKS	E	EVIDE	NCE OF LEAKS		YES		NO	\		
ROOF CONDITIO	ON - OVERALL SY	STEM	RATING							
VERY POOR					REPLACE OR C	COAT	IMMEDIATELY -	SPO	T REPAIRS ONLY	
POOR					REPLACE OR (COAT	IN 1-2 YEARS -	SPO ⁻	T REPAIRS ONLY	~
FAIR							REPLACE O	R CO	OAT IN 3-5 YEARS	
MARGINAL									AT IN 5-10 YEARS	
GOOD									IN 10-15 YEARS	
EVOELLENT						MILLY	IE BOOF IS LESS			

EXCELLENT

KNOWING THE EXACT AGE OF THIS ROOF MAY CHANGE ITS RECOMMENDED REPLACEMENT.

BUDGET ESTIMATES	
IMMEDIATE REPAIRS AS RECOMMENDED	\$0.00
YEARLY PREVENTIVE MAINENANCE	\$1,000.00
ROOF RECOATING	\$0.00
ROOF REPLACEMENT	\$15,000.00





BUILDING INFORMATION								
FACILITY	Oak Grove HS							
DATE	October 23, 2014							
BUILDING	Press Box							
ROOF SQ FT	170							
ROOF CONSTRUCTION								

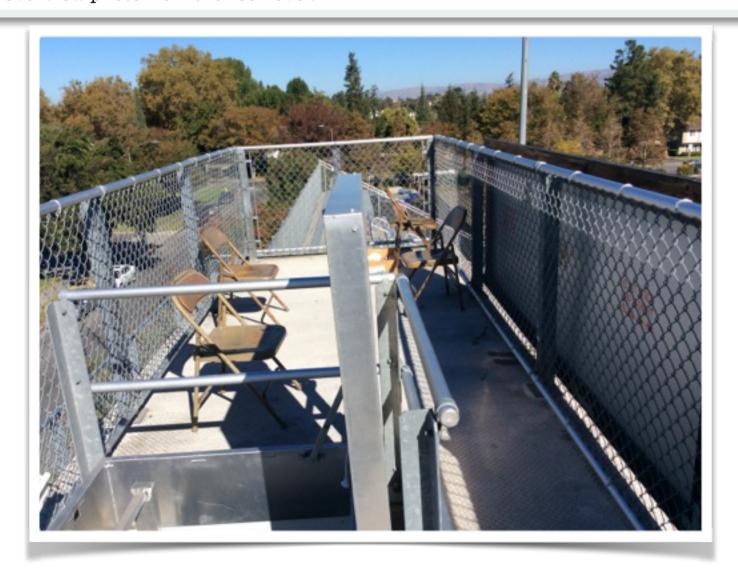


BUILDING	Press Box							N (S I N E E R I N IG SERVICES FOR THE BUILDING ENVI	G
ROOF SQ FT	170							NO THE LOSS	ochines for the bullion chin	LLUTE
ROOF CONSTRU	JCTION									
ROOF AGE	2005	✓	0-5 YEARS		5-10 YEARS		10-15 YEARS		15+ YEARS	
DECK TYPE	METAL		PLYWOOD	✓	PLANK		CONCRETE		LW CONCRETE	
INSULATION	NONE	✓	ISO		FIBER		PERLITE		STYRO	
INSUL THICK	1 INCH		2 INCH		3 INCH		4 INCH		TAPERED	
MEMBRANE	STEEL PLATE	✓	SINGLE PLY		BUR		MOD BIT		TWO SYSTEMS	
MEM SURFACE	COATING	✓	MS CAP		GRAVEL		SMOOTH	✓	GRANULE	
FLASHINGS	CAPSHEET		HYPALON							
DRAINAGE	JOSAM		SCUPPERS		GUTTERS		OVER EDGE	✓		
SLOPE	SLIGHT	✓	1:12		2:12		3:12		6:12	
POOF CONDITION	DN - RATINGS (1-1						_			#
) - NATINGS (1-1		EPAIRS NEEDED		10				RATING	7
FIELD		K			.	LIOT			IVATINO	'
			RESEAL SEAMS				ERS or RIDGING			
			OOF OF DEBRIS				REPAIR NEEDED			
	DECK		AIR SUSPECTED		RESEAL/F	RPLA	CE FASTENERS			
		CF	RAZE CRACKING		E	3RIT	TLE MEMBRANE			
		Ε>	CESSIVE WEAR		MEMBRAN	IE FI	BERS EXPOSED			
PITCH/POND		R	EPAIRS NEEDED						RATING	7
	F	ILL F	PONDING AREAS		FIX	DE	CK DEFLECTION			
			SOME PONDING		E	XCE:	SSIVE PONDING			
FLASHING			EPAIRS NEEDED		DEO	- ^ ' / '			RATING	6
			EAL/REPAIR ALL ECOAT AC DUCT				REPAIR SELECT			
			WALL FLASHING				L/RECOAT WALL YWOOD REPAIR			
DRAINAGE	REG		EPAIRS NEEDED		VVAL		TWOOD NET AIR		RATING	7
510 110 102	ADD/E		ANCE CRICKETS		ADD/EN	1AH	ICE OVERFLOW		1011110	•
			CLEAR DRAINS				ADD GUTTER			
	GUTT	ERI	REPAIR NEEDED		GUTTE	R CC	OATING NEEDED			
PENETRATION		R	EPAIRS NEEDED	⋖					RATING	5
		RES	EAL/REPAIR ALL	\checkmark	RES	EAL/	REPAIR SELECT			
		REP	LACE SKYLIGHT		RAISE HEIG	HT V	VHEN POSSIBLE			
ADDITIONAL		ŀ	ACTION NEEDED							
			ROOF ACCESS				ERNAL LADDER			
			EAD EQUIPMENT				HATCH NEEDED			
MAINTENANCE			P DRAINS CLEAN		KEEP	WAT	ERWAYS CLEAN			
			UNTIL REROOF		1.0	/A C F	TRIM TREES			
			OOF OF DEBRIS MAT SUSPECTED	✓			REPAIR NEEDED SUTTERS CLEAR			
LEAKS			ENCE OF LEAKS		YES		NO	_		
					TLO		NO			
	ON - OVERALL SY	2 LEI	VIRATING			·		2007	T DEDAIDO ONINA	
VERY POOR									F REPAIRS ONLY	
POOR					REPLACE OR (JUAI	IN 1-2 YEARS - S			
FAIR									AT IN 3-5 YEARS	✓
MARGINAL									T IN 5-10 YEARS	
GOOD						NII V			IN 10-15 YEARS	
EXCELLENT					0	NLY	IF ROOF IS LESS	i iH/	AN 5 YEARS OLD	

COATING LOOK FAIR BUT DOES NOT LAST FOREVER. LOOK TO RECOAT IN THE NEXT THREE YEARS. REPAIR/RESEAL HATCH.

BUDGET ESTIMATES	
IMMEDIATE REPAIRS AS RECOMMENDED	\$0.00
YEARLY PREVENTIVE MAINENANCE	\$0.00
ROOF RECOATING	\$1,700.00
ROOF REPLACEMENT	\$0.00





BUILDING INFORMATION							
FACILITY	Oak Grove HS						
DATE	October 23, 2014						
BUILDING	Q and R						
ROOF SQ FT	18,200						



BUILDING	Q allu K							NGIVEERI	NG SERVICES FOR THE BUILDING ENVE	ELOPE
ROOF SQ FT	18,200									
ROOF CONSTRU	ICTION									
ROOF AGE	1995	V	0-5 YEARS		5-10 YEARS		10-15 YEARS		15+ YEARS	
DECK TYPE	METAL		PLYWOOD	⋖	PLANK		CONCRETE		LW CONCRETE	
INSULATION	NONE	V	ISO		FIBER		PERLITE		STYRO	
INSUL THICK	1 INCH		2 INCH		3 INCH		4 INCH		TAPERED	
MEMBRANE	METAL SS		SINGLE PLY		BUR	I	MOD BIT		TWO SYSTEMS	
MEM SURFACE	COATING		MS CAP		GRAVEL		SMOOTH		GRANULE	
FLASHINGS	CAPSHEET		HYPALON		5.0		55 5		0, 0, 0, 0, 0	
DRAINAGE	JOSAM	_	SCUPPERS		GUTTERS		OVER EDGE			
SLOPE	SLIGHT		1:12		2:12		3:12		6:12	
ROOF CONDITIO			_		NS					#
FIELD			PAIRS NEEDED						RATING	3
TILLD					D	LICTI			SS RATING	
	- · - ·		RESEAL SEAMS				ERS or RIDGING		33 IVALING	
			OF OF DEBRIS				EPAIR NEEDED			
	DECK I		IR SUSPECTED		RESEAL/F	RPLA	CE FASTENERS			
		CR	AZE CRACKING	✓		BRITT	LE MEMBRANE			
		EXC	CESSIVE WEAR		MEMBRAN	IE FIE	BERS EXPOSED			
PITCH/POND		RE	PAIRS NEEDED						RATING	5
	F	ILL PO	ONDING AREAS		FIX	(DEC	CK DEFLECTION			
		S	OME PONDING		E	XCES	SSIVE PONDING			
FLASHING			PAIRS NEEDED						RATING	3
			AL/REPAIR ALL				REPAIR SELECT	_	SS RATING	
			COAT AC DUCT				/RECOAT WALL	_		
	RESI		ALL FLASHING	Y	WAL	L PLY	/WOOD REPAIR		DATING	
DRAINAGE	4 D.D./E		PAIRS NEEDED		A D D / E A				RATING	6
	ADD/E		NCE CRICKETS CLEAR DRAINS		ADD/EI	NHAIN	CE OVERFLOW ADD GUTTER			
	CUTT		EPAIR NEEDED		GUTTE	R CO	ADD GOTTER ATING NEEDED			
PENETRATION	3011		PAIRS NEEDED		30112	11 00	ATINO NEEDED		RATING	3
			AL/REPAIR ALL		RES	EAL/F	REPAIR SELECT		1011110	
			ACE SKYLIGHT				HEN POSSIBLE			
ADDITIONAL		A	CTION NEEDED							
	IMPR	ROVE	ROOF ACCESS		ADD	EXTI	ERNAL LADDER			
	REMOV	E DEA	AD EQUIPMENT	\checkmark	N	IEW H	HATCH NEEDED	I		
MAINTENANCE	K	KEEP	DRAINS CLEAN		KEEP	WATE	ERWAYS CLEAN			
	SPOT RE	PAIR	UNTIL REROOF	⋖			TRIM TREES			
	CLEA	AR RC	OF OF DEBRIS		H\	/AC R	EPAIR NEEDED			
	Н	IAZM <i>A</i>	AT SUSPECTED		KEEP	SS G	UTTERS CLEAR			
LEAKS	E	VIDE	NCE OF LEAKS		YES		NO	✓		
ROOF CONDITIO	N - OVERALL SYS	STEM	RATING							
VERY POOR									T REPAIRS ONLY	_
POOR					REPLACE OR (COAT	IN 1-2 YEARS -	SPO	T REPAIRS ONLY	✓
FAIR							REPLACE O	R CO	OAT IN 3-5 YEARS	
MARGINAL							REPLACE OR	COA	AT IN 5-10 YEARS	
GOOD							REPLACE OR	COAT	Γ IN 10-15 YEARS	
EVOELLENT							E DOOE 10 1 E0		AN ENEADO OLD	

EXCELLENT

ROOFS ARE OVER DUE TO BE REPLACED. MAY FAIL AT ANY TIME.

BUDGET ESTIMATES	
IMMEDIATE REPAIRS AS RECOMMENDED	\$0.00
YEARLY PREVENTIVE MAINENANCE	\$1,500.00
ROOF RECOATING	\$0.00
ROOF REPLACEMENT	\$273,000.00





The photo below shows excessive ridging.



The photo below shows open holes in the walls - water is entering the system.



BUILDING INFORMATION							
FACILITY	Oak Grove HS						
DATE	October 23, 2014						
BUILDING	S, X, and K						
ROOF SQ FT	43,000						



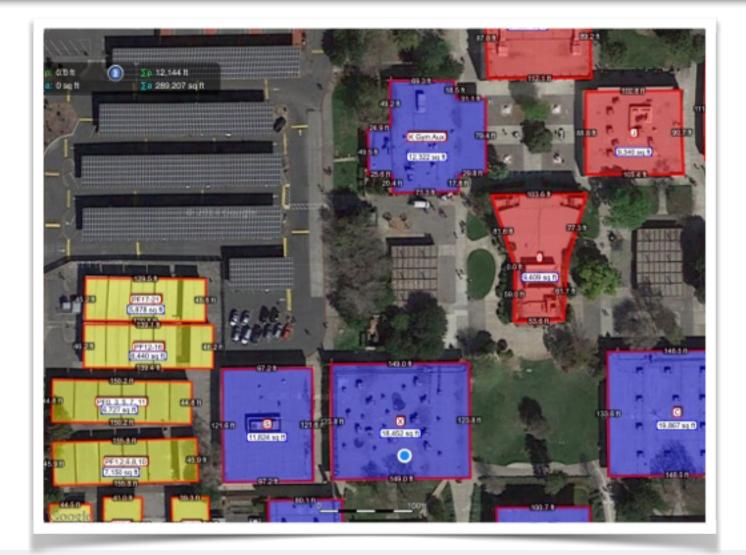
BUILDING	S, A, and K							ENGINEERII	IG SERVICES FOR THE BUILDING ENVE	LOPE
ROOF SQ FT	43,000							_		
ROOF CONSTRU	UCTION									
ROOF AGE	1995	⋖	0-5 YEARS		5-10 YEARS		10-15 YEARS		15+ YEARS	
DECK TYPE	METAL		PLYWOOD	✓	PLANK		CONCRETE		LW CONCRETE	
INSULATION	NONE	~	ISO		FIBER		PERLITE		STYRO	
INSUL THICK	1 INCH		2 INCH		3 INCH		4 INCH		TAPERED	
MEMBRANE	METAL SS		SINGLE PLY		BUR		MOD BIT		TWO SYSTEMS	
MEM SURFACE			MS CAP	V	GRAVEL		SMOOTH		GRANULE	
	COATING				GRAVEL		SIVIOUTTI		GRANULE	
FLASHINGS	CAPSHEET	_	HYPALON							
DRAINAGE	JOSAM		SCUPPERS		GUTTERS		OVER EDGE			
SLOPE	SLIGHT	✓	1:12		2:12		3:12		6:12	
ROOF CONDITIO	ON - RATINGS (1-1	0) an	d RECOMMENDA	ATIOI	NS					#
FIELD		RE	PAIRS NEEDED						RATING	3
			RESEAL SEAMS		В	LIST	ERS or RIDGING	\	SS RATING	
	CLEA	AR RO	OOF OF DEBRIS		DE	CK F	REPAIR NEEDED			
	DECK	REPA	IR SUSPECTED		RESEAL/E	RPI A	CE FASTENERS			
			AZE CRACKING	7			TLE MEMBRANE	_		
			CESSIVE WEAR							
DITOL //DOND				•	WEWBRAN	NE FII	BERS EXPOSED	•	DATINIO	_
PITCH/POND	_		PAIRS NEEDED		ΕN	/ DE/			RATING	5
	F		ONDING AREAS				CK DEFLECTION			
		•	SOME PONDING		E	XUE	SSIVE PONDING			
FLASHING		DE	PAIRS NEEDED						RATING	E
FLASHING			EAL/REPAIR ALL		DEQ	ΕΛΙ //	REPAIR SELECT		SS RATING	5
			COAT AC DUCT				L/RECOAT WALL		33 NATING	
			VALL FLASHING				YWOOD REPAIR			
DRAINAGE	I I		PAIRS NEEDED		VV/	' -	TWOOD INELTHIN		RATING	5
510 0 (32	ADD/E		NCE CRICKETS		ADD/EI	NHAN	ICE OVERFLOW		1011110	
			CLEAR DRAINS				ADD GUTTER			
	GUTT	ER F	EPAIR NEEDED		GUTTE	R CC	ATING NEEDED			
PENETRATION		RE	PAIRS NEEDED						RATING	3
		RESI	EAL/REPAIR ALL		RES	EAL/	REPAIR SELECT			
		REPL	ACE SKYLIGHT		RAISE HEIG	HT V	VHEN POSSIBLE			
ADDITIONAL		Α	CTION NEEDED							
	IMPF	ROVE	ROOF ACCESS		ADD	EXT	ERNAL LADDER			
	REMOV	E DE	AD EQUIPMENT	⋖	N	1EW	HATCH NEEDED	\checkmark		
MAINTENANCE	k	KEEP	DRAINS CLEAN		KEEP	WAT	ERWAYS CLEAN			
	SPOT RE	PAIR	UNTIL REROOF	⋖			TRIM TREES			
	CLEA	AR RO	OOF OF DEBRIS		HV	/AC F	REPAIR NEEDED			
	H	IAZM	AT SUSPECTED	⋖	KEEP	SS G	UTTERS CLEAR			
LEAKS	E	EVIDE	ENCE OF LEAKS		YES		NO	✓		
ROOF CONDITIO	ON - OVERALL SY	STEN	1 RATING							
VERY POOR					REPLACE OR C	COAT	IMMEDIATELY -	SPO	T REPAIRS ONLY	
POOR					REPLACE OR (COAT	IN 1-2 YEARS -	SPO	T REPAIRS ONLY	~
FAIR									AT IN 3-5 YEARS	
MARGINAL									T IN 5-10 YEARS	
GOOD									IN 10-15 YEARS	
EVOELLENT.						. N. II. N. 7	REPLACE OR			

EXCELLENT

ROOFS ARE OVER DUE TO BE REPLACED. MAY FAIL AT ANY TIME.

	BUDGET ESTIMATES
\$0.00	IMMEDIATE REPAIRS AS RECOMMENDED
\$1,500.00	YEARLY PREVENTIVE MAINENANCE
\$0.00	ROOF RECOATING
\$645,000.00	ROOF REPLACEMENT

An aerial view of the buildings - S, X and K.





The photo below shows the failing and wear of all the penetration base flashings.



The photo below shows a fair amount of dead equipment that should be removed.







ROOF SQ FT	200						E	NGINEERIN	IG SERVICES FOR THE BUILDING ENVE	LOPE
ROOF CONSTRU	JCTION		_		_			i		
ROOF AGE	UNKNOWN	✓	0-5 YEARS		5-10 YEARS	⋖	10-15 YEARS		15+ YEARS	
DECK TYPE	METAL		PLYWOOD	✓	PLANK		CONCRETE		LW CONCRETE	
INSULATION	NONE	✓	ISO		FIBER		PERLITE		STYRO	
INSUL THICK	1 INCH		2 INCH		3 INCH		4 INCH		TAPERED	
MEMBRANE	SHINGLE		SINGLE PLY		BUR		MOD BIT		TWO SYSTEMS	
MEM SURFACE	COATING		MS CAP	✓	GRAVEL		SMOOTH		GRANULE	
FLASHINGS	CAPSHEET		HYPALON							
DRAINAGE	JOSAM		SCUPPERS		GUTTERS		OVER EDGE	✓		
SLOPE	SLIGHT	⋖	1:12		2:12		3:12		6:12	
ROOF CONDITIC	N - RATINGS (1-1	0) ar	nd RECOMMENDA	ATIOI	NS					#
FIELD			EPAIRS NEEDED		10				RATING	
1122			RESEAL SEAMS		R	ПСТ	ERS or RIDGING			
	CI E						REPAIR NEEDED			
			OOF OF DEBRIS							
	DLON		RAZE CRACKING				CE FASTENERS			
							TLE MEMBRANE			
			CESSIVE WEAR		N	/IEME	BRANE DAMAGE	~	D.171110	
PITCH/POND	_		EPAIRS NEEDED		E1)	, DE			RATING	6
	F		ONDING AREAS				CK DEFLECTION			
		•	SOME PONDING		EXCESSIVE PONDING					
FLASHING	REPAIRS NEEDED								RATING	3
1 27 (31 111 (3			EAL/REPAIR ALL		RES	EAL/	REPAIR SELECT		7011110	
	RESEA	AL/RE	ECOAT AC DUCT		RESEAL/RECOAT WALL					
	RESI	EAL \	WALL FLASHING		REIN	NSTA	LL EDGE FLASH	✓		
DRAINAGE		RE	EPAIRS NEEDED						RATING	6
	ADD/E	ENHA	ANCE CRICKETS		ADD/EN	1AH	NCE OVERFLOW			
			CLEAR DRAINS				ADD GUTTER			
	GUTT	ER F	REPAIR NEEDED		GUTTER COATING NEEDED					_
PENETRATION			EPAIRS NEEDED						RATING	-
			EAL/REPAIR ALL				REPAIR SELECT			
		KEP	LACE SKYLIGHT		RAISE HEIG	HIV	VHEN POSSIBLE			
ADDITIONAL		Δ	CTION NEEDED							
/ LDDI I TOTAL	IMPF		ROOF ACCESS		ADD	EXT	ERNAL LADDER			
	REMOV	E DE	AD EQUIPMENT				HATCH NEEDED			
MAINTENANCE	k	(EEP	DRAINS CLEAN		KEEP	WAT	ERWAYS CLEAN			
	SPOT RE	PAIR	UNTIL REROOF				TRIM TREES			
	CLEA	AR R	OOF OF DEBRIS		HV	/AC F	REPAIR NEEDED			
	H	IAZIV	IAT SUSPECTED		KEEP	SS G	SUTTERS CLEAR			
LEAKS	E	VIDI	ENCE OF LEAKS		YES		NO	✓		
ROOF CONDITIC	N - OVERALL SY	STE	M RATING							
VERY POOR					REPLACE OR C	COAT	IMMEDIATELY - S	SPO	Γ REPAIRS ONLY	
POOR					REPLACE OR (COAT	Γ IN 1-2 YEARS - \$	SPO	TREPAIRS ONLY	
FAIR							REPLACE OF	R CO	AT IN 3-5 YEARS	
MARGINAL							REPLACE OR	COA	T IN 5-10 YEARS	✓

GOOD

EXCELLENT

FIX EDGE FLASHING AND PATCH DAMAGED MEMBRANE.

BUDGET ESTIMATES	
IMMEDIATE REPAIRS AS RECOMMENDED	\$1,000.00
YEARLY PREVENTIVE MAINENANCE	\$0.00
ROOF RECOATING	\$0.00
ROOF REPLACEMENT	\$4,000.00

REPLACE OR COAT IN 10-15 YEARS



An overview photo from the roof level - damage to the edge flashing can be seen.







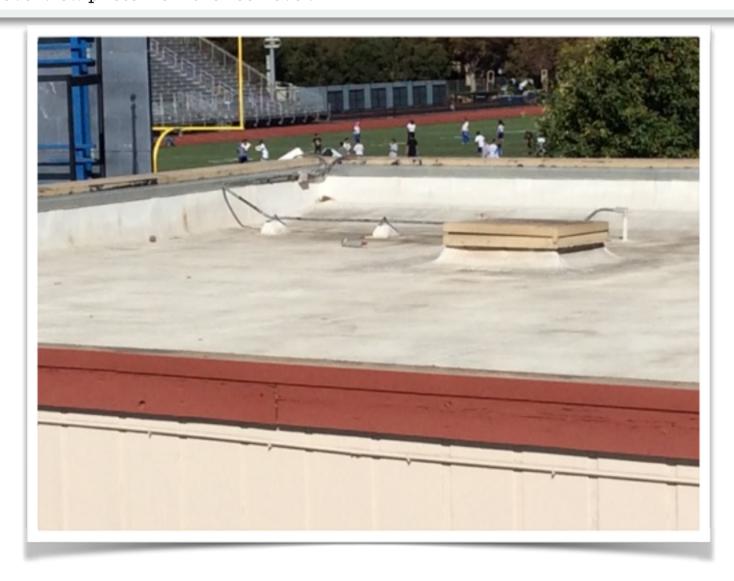
BUILDING	T Weight Room			E N G I N E E R I N G ENGINEERING SERVICES FOR THE BUILDING ENVELOPE						G
ROOF SQ FT	3,600									
ROOF CONSTRU	JCTION									
ROOF AGE	2001	⋖	0-5 YEARS		5-10 YEARS		10-15 YEARS		15+ YEARS	
DECK TYPE	METAL		PLYWOOD	✓	PLANK		CONCRETE		LW CONCRETE	
INSULATION	NONE	✓	ISO		FIBER		PERLITE		STYRO	
INSUL THICK	1 INCH		2 INCH		3 INCH		4 INCH		TAPERED	
MEMBRANE	METAL SS		SINGLE PLY		BUR		MOD BIT		TWO SYSTEMS	
MEM SURFACE	COATING	✓	MS CAP	✓	GRAVEL		SMOOTH	√	GRANULE	
FLASHINGS	CAPSHEET	✓	HYPALON							
DRAINAGE	JOSAM	√	SCUPPERS		GUTTERS		OVER EDGE			
SLOPE	SLIGHT	✓	1:12		2:12		3:12		6:12	
ROOF CONDITIO	ON - RATINGS (1-1	0) ar	nd RECOMMENDA	OITA	NS					#
FIELD		RI	EPAIRS NEEDED						RATING	5
			RESEAL SEAMS			(SOME BLISTERS		SS RATING	
	CLEA	AR R	OOF OF DEBRIS		DE	CK F	REPAIR NEEDED			
	DECK	REP/	AIR SUSPECTED		RESEAL/F	RPLA	ACE FASTENERS			
		CF	RAZE CRACKING		<u> </u>	3RIT	TLE MEMBRANE			
		ΕX	CESSIVE WEAR				BERS EXPOSED			
PITCH/POND		RI	EPAIRS NEEDED						RATING	5
	F	ILL F	ONDING AREAS		FIX	(DE	CK DEFLECTION			
			SOME PONDING		Е	XCE	SSIVE PONDING			
FLASHING		RI	EPAIRS NEEDED						RATING	5
		RES	EAL/REPAIR ALL		RES	EAL/	REPAIR SELECT		SS RATING	
			ECOAT AC DUCT		RESEAL/RECOAT WALL					
DDAINACE	RES		WALL FLASHING		WAL	L PL	YWOOD REPAIR		DATINO	
DRAINAGE	ΔDD/F		EPAIRS NEEDED ANCE CRICKETS		ADD/EN	ЛΗΔΙ	NCE OVERFLOW		RATING	5
	NOD/L	_1 11 1/	CLEAR DRAINS		/\DD/LI	VI 17 VI	ADD GUTTER			
	GUTT	ER I	REPAIR NEEDED		GUTTER COATING NEEDED					
PENETRATION		RI	EPAIRS NEEDED						RATING	5
		RES	EAL/REPAIR ALL		RES	EAL/	REPAIR SELECT			
		REP	LACE SKYLIGHT		RAISE HEIG	HT V	VHEN POSSIBLE			
ADDITIONAL			ACTION NEEDED							
			ROOF ACCESS				ERNAL LADDER			
MAINTENANCE			AD EQUIPMENT DRAINS CLEAN				HATCH NEEDED ERWAYS CLEAN			
WAINTENANCE			UNTIL REROOF		NEEP	VVAI	TRIM TREES			
			OOF OF DEBRIS		ΗV	/AC F	REPAIR NEEDED			
			IAT SUSPECTED			_	GUTTERS CLEAR			
LEAKS	E	EVID	ENCE OF LEAKS		YES		NO	✓		
ROOF CONDITIO	ON - OVERALL SY	STE	M RATING							
VERY POOR					REPLACE OR C	COAT	IMMEDIATELY - S	SPO	T REPAIRS ONLY	
POOR					REPLACE OR (COAT	Γ IN 1-2 YEARS - \$	SPO	T REPAIRS ONLY	
FAIR							REPLACE OF	R CO	AT IN 3-5 YEARS	4
MARGINAL							REPLACE OR	COA	T IN 5-10 YEARS	
GOOD							REPLACE OR C	COAT	IN 10-15 YEARS	
EXCELLENT				ONLY IF ROOF IS LESS THAN 5 YEARS OLD						

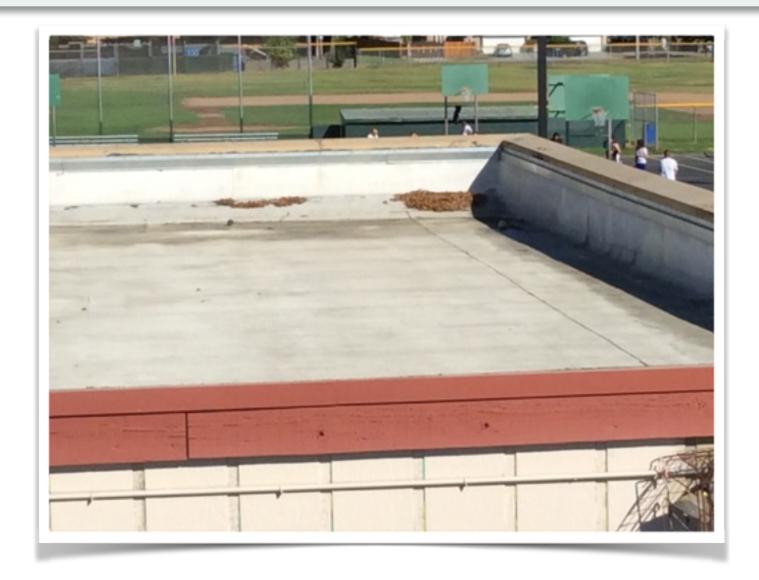
EXCELLENT

ROOF IS AGING WELL. MANAGE IN ORDER TO GET ANOTHER FIVE YEARS OF LIFE.

BUDGET ESTIMATES	
IMMEDIATE REPAIRS AS RECOMMENDED	\$0.00
YEARLY PREVENTIVE MAINENANCE	\$1,500.00
ROOF RECOATING	\$0.00
ROOF REPLACEMENT	\$54,000.00







BUILDING INFORMATION							
FACILITY	Oak Grove HS						
DATE	October 23, 2014						
BUILDING	U						
ROOF SQ FT	23,300						
ROOF CONSTRU	JCTION						



BUILDING	U						Ē	N (I N E E R I N IG SERVICES FOR THE BUILDING ENVI	G ELOPE
ROOF SQ FT	23,300							_		
ROOF CONSTRU	JCTION									
ROOF AGE	2008	✓	0-5 YEARS		5-10 YEARS		10-15 YEARS		15+ YEARS	
DECK TYPE	METAL		PLYWOOD	\checkmark	PLANK		CONCRETE		LW CONCRETE	
INSULATION	NONE		ISO		FIBER		PERLITE		STYRO	
INSUL THICK	1 INCH		2 INCH		3 INCH		4 INCH		TAPERED	
MEMBRANE	METAL SS		SINGLE PLY		BUR	⋖	MOD BIT		TWO SYSTEMS	
MEM SURFACE	COATING		MS CAP		GRAVEL		SMOOTH		GRANULE	
FLASHINGS	CAPSHEET	✓	HYPALON							
DRAINAGE	JOSAM	\	SCUPPERS		GUTTERS		OVER EDGE			
SLOPE	SLIGHT	\	1:12		2:12		3:12		6:12	
ROOF CONDITIO	ON - RATINGS (1-1	0) ar	nd RECOMMENDA	IOITA	NS					#
FIELD		RI	EPAIRS NEEDED						RATING	6
			RESEAL SEAMS			S	SOME BLISTERS	✓	SS RATING	
	CLEA	AR R	OOF OF DEBRIS		DE	CK F	REPAIR NEEDED			
	DECK	REP/	AIR SUSPECTED		RESEAL/F	RPLA	CE FASTENERS			
		CF	RAZE CRACKING		E	3RIT1	TLE MEMBRANE			
		Ε×	CESSIVE WEAR				BERS EXPOSED			
PITCH/POND		RI	EPAIRS NEEDED						RATING	7
	F	ILL F	ONDING AREAS		FIX DECK DEFLECTION					
	SOME PONDING				EXCESSIVE PONDING					
FLASHING	REPAIRS NEEDED								RATING	5
	RESEAL/REPAIR ALL				RES	EAL/F	REPAIR SELECT		SS RATING	
	RESEAL/RECOAT AC DUCT						/RECOAT WALL			
	RESEAL WALL CAP FLASH				WALL PLYWOOD REPAIR				DATING	-
DRAINAGE	REPAIRS NEEDED ADD/ENHANCE CRICKETS				ADD/ENHANCE OVERFLOW				RATING	7
	ADDIL	_11117	CLEAR DRAINS		ADD/LI	NI IAIN	ADD GUTTER			
	GUTT	ER F	REPAIR NEEDED		GUTTER COATING NEEDED					
PENETRATION		RI	EPAIRS NEEDED	✓					RATING	4
		RES	EAL/REPAIR ALL	✓	RESEAL/REPAIR SELECT					
		REP	LACE SKYLIGHT		RAISE HEIGHT WHEN POSSIBLE					
ADDITIONAL			ACTION NEEDED							
	IMPROVE ROOF ACCESS				ADD EXTERNAL LADDER NEW HATCH NEEDED					
MAINTENANCE			AD EQUIPMENT P DRAINS CLEAN				ERWAYS CLEAN			
WAINTENANCE			UNTIL REROOF		KLLI	VVAII.	TRIM TREES			
	CLEAR ROOF OF DEBRIS				HVAC REPAIR NEEDED					
	HAZMAT SUSPECTED				KEEP SS GUTTERS CLEAR					
LEAKS	E	EVID	ENCE OF LEAKS		YES		NO	√		
ROOF CONDITIO	ON - OVERALL SY	STEI	M RATING							
VERY POOR					REPLACE OR C	COAT	IMMEDIATELY - S	SPO	Γ REPAIRS ONLY	
POOR		REPLACE OR COAT IN 1-2 YEARS - SPOT REPAIRS ONLY								
FAIR	REPLACE OR COAT IN 3-5 YEARS									
MARGINAL		REPLACE OR COAT IN 5-10 YEARS								
GOOD							REPLACE OR C	COAT	IN 10-15 YEARS	✓
							IE DOGE 16 : ===			

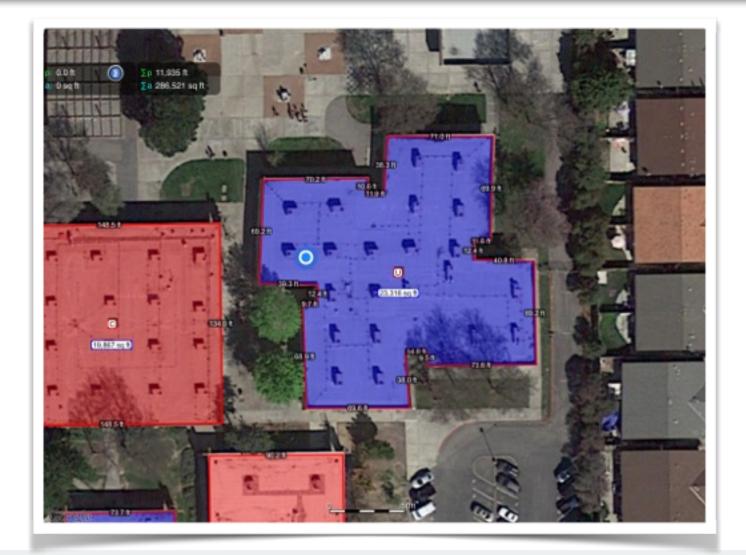
GOOD

ADDITIONAL NOTES

EXCELLENT

ROOF IS RELATIVELY NEW BUT WEARING. WALL CAPS NEED TO BE RESEALED. ALL PENETRATIONS NEED TO BE RESEALED.

	BUDGET ESTIMATES
DED \$10,000.00	IMMEDIATE REPAIRS AS RECOMMENDED
NCE \$1,500.00	YEARLY PREVENTIVE MAINENANCE
TING \$0.00	ROOF RECOATING
ENT \$349,500.00	ROOF REPLACEMENT





The photo below shows the wall cap flashing seams failing.



The photo below shows an open hole in the penetration corner.







BUILDING	V Gym Small						E		IG SERVICES FOR THE BUILDING ENVE	ELOPE
ROOF SQ FT	18,000							_		
ROOF CONSTRU	UCTION									
ROOF AGE	1995	✓	0-5 YEARS		5-10 YEARS		10-15 YEARS		15+ YEARS	
DECK TYPE	METAL		PLYWOOD	~	PLANK		CONCRETE		LW CONCRETE	
INSULATION	NONE		ISO		FIBER		PERLITE		STYRO	
INSUL THICK	1 INCH		2 INCH		3 INCH		4 INCH		TAPERED	
MEMBRANE	METAL SS		SINGLE PLY		BUR		MOD BIT		TWO SYSTEMS	
					GRAVEL				GRANULE	
MEM SURFACE	COATING		MS CAP	•	GRAVEL		SMOOTH		GRANULE	
FLASHINGS	CAPSHEET	_	HYPALON							
DRAINAGE	JOSAM	_	SCUPPERS		GUTTERS		OVER EDGE			
SLOPE	SLIGHT		1:12		2:12		3:12		6:12	
ROOF CONDITIO	ON - RATINGS (1-1	(0) ar	nd RECOMMENDA	OITA	NS					#
FIELD		RE	EPAIRS NEEDED						RATING	3
			RESEAL SEAMS		В	LIST	ERS or RIDGING	√	SS RATING	
	CLEA	AR R	OOF OF DEBRIS		DE	CK F	REPAIR NEEDED			
	DECK	REP/	AIR SUSPECTED		RESEAL/E	RPI A	CE FASTENERS			
			RAZE CRACKING				TLE MEMBRANE			
			CESSIVE WEAR	Y	MEMBRAN	NE FI	BERS EXPOSED	✓	5.170.10	
PITCH/POND	_		EPAIRS NEEDED						RATING	3
	F		ONDING AREAS				CK DEFLECTION			
		,	SOME PONDING		E	XCE:	SSIVE PONDING	V		
EL A OLUNIO		D.							DATINIO	
FLASHING			EPAIRS NEEDED		DEO	- ^ ' ' '			RATING	
			EAL/REPAIR ALL		RESEAL/REPAIR SELECT RESEAL/RECOAT WALL				SS RATING	
			ECOAT AC DUCT		WALL PLYWOOD REPAIR					
DRAINAGE	RESI		EPAIRS NEEDED		VVAL	.L	TWOOD REPAIR		RATING	3
DIVANIVACE	ΔDD/F		ANCE CRICKETS		ADD/EN	ЛΗΔΝ	NCE OVERFLOW	~	NATINO	J 3
	NOD/L	_1 11 1/	CLEAR DRAINS	_	/\UU/LI	VI I/ VI	ADD GUTTER			
	GUTT	FR F	REPAIR NEEDED		GUTTE	R CC	DATING NEEDED			
PENETRATION			EPAIRS NEEDED		33.12		7, 11 110 112222		RATING	3
, =			EAL/REPAIR ALL		RES	EAL/	REPAIR SELECT			
		REP	LACE SKYLIGHT		RAISE HEIG	HT V	VHEN POSSIBLE			
			OVE ONE HATCH	-						
ADDITIONAL		Д	CTION NEEDED							
	IMPF	ROVE	ROOF ACCESS		ADD	EXT	ERNAL LADDER			
	REMOV	E DE	AD EQUIPMENT		N	1EW	HATCH NEEDED			
MAINTENANCE	k	KEEP	DRAINS CLEAN		KEEP	WAT	ERWAYS CLEAN			
	SPOT RE	PAIR	UNTIL REROOF				TRIM TREES			
	CLEA	AR R	OOF OF DEBRIS		HV	/AC F	REPAIR NEEDED			
	H	HAZM	AT SUSPECTED	S	KEEP	SS G	UTTERS CLEAR			
LEAKS	E	EVIDE	ENCE OF LEAKS		YES		NO	\		
ROOF CONDITION	ON - OVERALL SY	STEN	M RATING							
VERY POOR					REPLACE OR C	COAT	IMMEDIATELY - S	SPO	T REPAIRS ONLY	
POOR									T REPAIRS ONLY	_
FAIR					TELL TOL OIL	J J/ (1			AT IN 3-5 YEARS	
MARGINAL									T IN 5-10 YEARS	
GOOD						NII V			IN 10-15 YEARS	
EXCELLENT					()	IIVII V	TE ROOF IS LESS	\ IH4	$\Delta M > \Delta F \Delta F C (1 1)$	

EXCELLENT

ROOFS ARE OVER DUE TO BE REPLACED. MAY FAIL AT ANY TIME.

BUDGET ESTIMATES	
IMMEDIATE REPAIRS AS RECOMMENDED	\$0.00
YEARLY PREVENTIVE MAINENANCE	\$1,500.00
ROOF RECOATING	\$0.00
ROOF REPLACEMENT	\$270,000.00

An aerial view of the buildings - S, X and K.





The photo below shows reaching in the field.



The photo below shows excessive ponding.

