

School Facility Evaluation Project
Part I - Facility Profile and Summary

School Name: MAPLE RIDGE ELEMENTARY
Location: 10203 MAPLEMONT RD. S.E.

School Code: 1307
Facility Code: 1534

Region: CALGARY SOUTH
Jurisdiction: CALGARY SCHOOL DISTRICT #19

Superintendent: DR. DONNA MICHAELS
Contact Person: LEANNE SOLIGO
Telephone: (403) 214-1123

Grades: K-6

School Capacity: 450

Building Section	Year of Compl.	No. of Floors	Gross Bldg Area (Sq.M.)	Type of Construction (i.e., structure, roof, cladding)	Description of Mechanical Systems (incl. major upgrades)	Comments/Notes
Original Building	1967	2	3383.10	Masonry, flat roof, prefinished metal.	The mechanical systems consist of perimeter hot water heating and central low velocity ventilation.	
Additions/ Expansions	N.A.					

Evaluator's Name: NORMAN DOBELL
& Company: NORMAN DOBELL & ASSOC. ARCH.

Upgrading/ Modernization (identify whether minor or major)	N/A					
Portable Struct. (identify whether attached/perman. or free-standing/ relocatable)	N/A					
List of Reports/ Supplementary Information	Facility Asbestos Manual.					

Evaluation Components		Summary Assessment			Estim. Cost
1	Site Conditions	Provide Handicap parking stall and barrier free access at sidewalk.			\$52,400
2	Building Exterior	Provide ice dams, downspout, repoint brick, paint exterior doors and replace windows.			\$211,200
3	Building Interior	Interior doors require replacement.			\$185,600
4	Mechanical Systems	While systems are generally in good working order, base equipment is 35 years old and past life expectancy.			\$439,000
5	Electrical Systems	Install surge protection on the electrical system. Retrofit lighting throughout to improve colour rendition and efficiency.			\$150,500
6	Portable Buildings	NA			\$0
7	Space Adequacy:				
	7.1 Classrooms	Surplus	328		
	7.2 Science Rooms/Labs	Deficient	-104		
	7.3 Ancillary Areas	Deficient	-285		
	7.4 Gymnasium	Deficient	-233		
	7.5 Library/Resource Areas	Deficient	-6		
	7.6 Administration/Staff Areas	Deficient	-323		
	7.7 CTS Areas				
	7.8 Other Non-Instructional Areas (incl. gross-up)	Deficient	-73		
	Overall School Conditions & Estim. Costs	Deficient	-696		\$1,038,700

Section 1	Site Conditions	Rating	Comments/Concerns	Estim. Cost
1.1	General Site Conditions			
1.1.1	Overall site size.	4	Adequate.	
1.1.2	Outdoor athletic areas.	4	Playfields.	
1.1.3	Outdoor playground areas, including condition of equipment and base.	3	Equipment is old and deteriorating. Replace.	\$40,000
1.1.4	Site landscaping.	4	Minimum of trees. Large roots from poplars and cottonwoods.	
1.1.5	Site accessories (i.e., perimeter and other fencing, guard rails, bike stands, flag poles).	4	Bike stands, flagpole on site.	
1.1.6	Surface drainage conditions (i.e., drains away from building, signs of ponding).	4	Water drains away from building.	
1.1.7	Evidence of sub-soil problems.	4	None evident.	
1.1.8	Safety and security concerns due to site conditions.	4	No apparant problems.	
Other				

Section 1	Site Conditions	Rating	Comments/Concerns	Estim. Cost
1.2	Access/Drop-Off Areas/Roadways/Bus Lanes			
1.2.1	Vehicular and pedestrian access points (i.e., size, number, visibility, safety).	4	Vehicular and pedestrian access from street.	
1.2.2	Surfacing of on-site road network (note whether asphalt or gravel).	4	Parking lot asphalt surface.	
1.2.3	Bus lanes/drop-off areas (note whether on-site or off-site).	4	Off-site. Street access.	
1.2.4	Fire vehicle access.	4	Front street and parking lot.	
1.2.5	Signage.	4	Aluminium - front of school.	
Other				

Section 1	Site Conditions	Rating	Comments/Concerns	Estim. Cost
1.3	Parking Lots and Sidewalks			
1.3.1	Number of parking spaces for staff, students and visitors (including stalls for disabled persons).	3	26 parking spaces for staff. Provide handicap parking stall.	\$9,900
1.3.2	Layout and safety of parking lots.	4	Layout satisfactory.	
1.3.3	Surfacing and drainage of parking lots (note whether asphalt or gravel).	3	Asphalt - requires resurfacing. See 1.3.1.	
1.3.4	Layout and safety of sidewalks.	4	Adequate.	
1.3.5	Surfacing and drainage of sidewalks (note type of material).	4	Asphalt surface with good drainage.	
1.3.6	Curb cuts and ramps for barrier free access.	2	No curb cut for B.F. access at public sidewalk. Ddirect access from parking lot.	\$2,500
Other				
	Overall Site Conditions & Estimated Costs			\$52,400

Section 2	Building Exterior	Rating	Comments/Concerns		Estim. Cost
2.1	Overall Structure		Bldg. Section	Description/Condition	
2.1.1	Floor structure and beams (i.e., signs of bending, cracking, heaving, settlement, voids, rust, stains).	4		Concrete floor - appears adequate.	
2.1.2	Wall structure and columns (i.e., signs of bending, cracking, settlement, voids, rust, stains).	4		Primary walls sandblasted concrete. Brick veneer and concrete painted.	
2.1.3	Roof structure (i.e., signs of bending, cracking, voids, rust, stains).	FI		Staining noted in several areas on ceiling tile.	
Other					

Section 2	Building Exterior	Rating	Comments/Concerns		Estim. Cost
2.2	Roofing and Skylights <i>Identify the availability of an up-to-date inspection report or roofing program. Note if roof sections are of different ages and/or in varying</i>		Bldg. Section or Roof Section	Description/Condition/Age	
2.2.1	Based on the inspection report (and to the extent possible, direct observation), assess and rate roof conditions and estimate costs for required improvements (i.e., covering materials, membrane, insulation, other components).	FI		Built-up roof - stains noted on tile- second floor.	
2.2.2	Roof accessories (i.e., ladders, stairs, hatches, masts, exhaust hoods, chimneys, gutters, downspouts, splashpads).	3		One downspout evident. Requires splashpad.	\$1,000
2.2.3	Control of ice and snow falling from roof.	2		Sloped metal roofing (parapet) sections throughout. No ice dams evident. Provide.	\$71,800
2.2.4	Skylights (i.e., signs of distress, leaks, ice build-up, condensation, deteriorated materials/seals).	4		Clerestory type windows. Appear adequate.	
Other					

Section 2	Building Exterior	Rating	Comments/Concerns		Estim. Cost
2.3	Exterior Walls/Building Envelope		Bldg. Section	Description/Condition	
2.3.1	Exterior wall finishes (i.e., signs of deterioration, cracks, brick spalling, effluorescence, water stains).	3		Veneer face brick. Repointing required. Repair damaged brick.	\$10,000
2.3.2	Fascias, soffits, parapets (i.e., signs of looseness, stains, rust, peeling paint).	2		Metal parapets and soffits. Material damaged bky thrown objects creating dents throughout. Discoloration noted. Replace. See 2.2.3	
2.3.3	Building envelope (i.e., evidence of air infiltration/exfiltration through the exterior wall or ice build up on wall, eaves, canopy).	4		No evidence of infiltration.	
2.3.4	Interface of roof drainage and ground drainage systems.	4		Internal drainage to municipal system.	
2.3.5	Inside faces of exterior walls (i.e., signs of cracks, water stains, dust spots).	4		Appear adequate. No signs of stains or rust spots.	
Other		3		Provide allowance for renovations related to boiler replacement.	\$10,000

Section 2	Building Exterior	Rating	Comments/Concerns		Estim. Cost
2.4	Exterior Doors and Windows		Bldg. Section	Description/Condition	
2.4.1	Doors (i.e., signs of deterioration, rusting metal, glass cracks, peeling paint, damaged seals, sealed unit failure).	3		Most doors are wood. Peeling paint evident. Replace.	\$15,400
2.4.2		3		For costing refer to 2.4.1.	
2.4.3	Exit door hardware (i.e., safety and/or code concerns).	4		For costing refer to 2.4.1.	
2.4.4	Windows (i.e., signs of deterioration, rusting metal, glass cracks, peeling paint, damaged seals, sealed unit failure).	3		Some window units have been upgraded to HSDG. Others are original single pane. Aluminium frames show signs of aging. Replace.	\$103,000
2.4.5	Window accessories (i.e., latches, hardware, screens, locks, alarms, holders, closers, security devices).	3		See 2.4.4 for pricing.	
2.4.6	Building envelope (i.e., signs of heavy condensation on doors or windows).	4		No apparant evidence of leakage.	
Other					
	Overall Bldg Exterior Condition & Estim Costs				\$211,200

Section 3	Building Interior - Overall Conditions	Rating	Comments/Concerns		Estim. Cost
3.1	Interior Structure		Bldg. Section	Description/Condition	
3.1.1	Interior walls and partitions (i.e., signs of cracks, spalling, paint peeling).	4		Walls appear to be in sound condition.	
3.1.2	Floors (i.e., signs of cracks, heaving, settlement).	4		Concrete. No apparant problems.	
Other					
3.2	Materials and Finishes		Bldg. Section	Description/Condition	
3.2.1	Floor materials and finishes.	4		Combination carpet and vinyl tile in classrooms. Vinyl tile in common hallways.	
3.2.2	Wall materials and finishes.	4		Brick veneer, P.C.concrete(sandblasted finish) drywall painted.	
3.2.3	Ceiling materials and finishes.	4		Acoustic tile in classrooms. Aged hallways were drywalled with texture finish.	

Section 3	Building Interior - Overall Conditions	Rating	Comments/Concerns		Estim. Cost
3.2	Materials and Finishes (cont'd)		Bldg. Section	Description/Condition	
3.2.4	Interior doors and hardware.	3		Doors are typically wood. Hardware is residential quality. Does not meet barrier free requirements. Replace.	\$42,600
3.2.5	Millwork	4		MOST MILLWORK IS ORIGINAL.	
3.2.6	Fixed/wall mounted equipment (i.e., writing boards, tackboards, display boards, signs).	4		Writing boards are black surface. Replace with whiteboards. Display boards are cork base.	\$38,000
3.2.7	Any other fixed/mounted specialty items (i.e., CTS equipment, gymnasium equipment).	4		Gym equipment adequate.	
3.2.8	Washroom materials and finishes.	4		Floors- concrete painted. Walls - concrete block painted. Ceiling - drywall with texture finish. Toilet partitions - prefinished metal.	
Other					

Section 3	Building Interior - Overall Conditions	Rating	Comments/Concerns		Estim. Cost
3.3	Health and Safety Concerns --- <i>Intent is to identify renovations considered necessary to</i>		Bldg. Section	Description/Condition	
3.3.1	Building construction type - combustible or non-combustible, sprinklered or non-sprinklered.	4		Non-combustible, non-sprinklered.	
3.3.2	Fire separations (i.e., between buildings, wings, zones if non-sprinklered).	4		Access to exits appear adequate.	
3.3.3	Fire resistance rating of materials (i.e., corridor walls and doors).	4		Appearadequate except for doors. Refer to 3.2.4.	
3.3.4	Exiting distances and access to exits.	4		Compliant.	
3.3.5	Barrier-free access.	2		Access into building acceptable. Multiple floor levels make many areas inaccessible. Modify and provide H.C. washroom.0	\$105,000
3.3.6	Availability of hazardous materials audit (i.e., evidence of safety concerns with respect to asbestos, PCB's, chemicals).	FI		Acoustic tile ceilings require further investigation.	
3.3.7	Other health and safety concerns (i.e., evidence of excessive noise conditions, air quality problems)	FI		Air handling systems appear to have problems. Further investigation by mechanical engineer.	
Other					
	Overall Bldg Interior Condition & Estim Costs				\$185,600

Section 4	Mechanical Systems	Rating	Comments/Concerns		Estim. Cost
4.1	Mechanical Site Services				
	4.1.1 Site drainage systems (i.e., surface and underground systems, catch basins).	4		Site drainage consists of grading to swales and catch basins tied to City services.	
	4.1.2 Exterior plumbing systems (i.e., irrigation systems, hose bibs).	4		Building has exterior hose bibbs.	
	4.1.3 Outside storage tanks.	NA		Not applicable.	
	Other				
4.2	Fire Suppression Systems		Bldg. Section	Description/Condition	
	4.2.1 Fire hydrants and siamese connections.	4		Street fire hydrant is located adjacent to school.	
	4.2.2 Fire suppression systems (i.e., pumps, sprinklers, piping, reservoirs, hoses, stand pipes, CO2 systems).	4		Fire hose cabinets are provided.	
	4.2.3 Hand extinguishers, blankets and showers (i.e., in CTS areas).	4		Hand extinguishers located throughout in cabinets.	
	4.2.4 Other special situations (e.g., flammable storage areas, science labs, CTS areas).	NA		Not applicable.	
	Other				

Section 4	Mechanical Systems	Rating	Comments/Concerns		Estim. Cost
4.3	Water Supply and Plumbing Systems		Bldg. Section	Description/Condition	
4.3.1	Domestic water supply (i.e., pressure, volume, quality note whether municipal or well supply).	4		100 mm service from street, service runs to 50mm meter. Service to building tied to municipal service.	
4.3.2	Water treatment system(s).	NA		Not applicable.	
4.3.3	Pumps and valves (including backflow prevention valves).	3		Backflow preventors provided for standpipe, but not DCW service.	\$5,000
4.3.4	Piping and fittings.	4		All piping on domestic is copper and is in good shape.	
4.3.5	Plumbing fixtures (i.e., toilets, urinals, sinks)	4		Fixtures are in good service condition.	
4.3.6	Domestic hot water system (i.e., heater, storage tanks, failure alarms, pressure, volume, recirculation).	4		One self contained hot water heater, gas fired, c/w recirc pump.	
4.3.7	Sanitary and storm sewers, including sumps and pits (note whether sewage system is municipal or septic).	4		Services tied to municipal mains.	
Other					

Section 4	Mechanical Systems	Rating	Comments/Concerns		Estim. Cost
4.4	Heating Systems		Bldg. Section	Description/Condition	
4.4.1	Heating capacity and reliability (including backup capacity).	3		Two Peerless hot water boilers supply heat for entire school. Units operate well and are in working order, however, are 32 years old and nearing their normal life expectancy. Boilers distribute hot water to perimeter radiation, and entrance heaters.	\$155,000
4.4.2	Heating controls (including use of current energy management technology).	3		Controls are pneumatic and electric. See Controls item 4.7.1.	
4.4.3	Fresh air for combustion and condition of the combustion chimney.	4		Combustion air is in place and acceptable.	
4.4.4	Treatment of water used in heating systems.	4		Treatment systems are in good working order.	
4.4.5	Low water cutoff/pressure relief valves and failure alarms (i.e., hot water heating).	4		Acceptable.	
4.4.6	Heating air filtration systems and filters.	na		Not applicable.	
4.4.7	Heating humidification systems and components.	NA		Not applicable.	
4.4	Heating Systems (cont'd)		Bldg. Section	Description/Condition	
4.4.8	Heating distribution systems (i.e., piping, ductwork) and associated components	4		Hot water distribution is in good working order.	

Section 4	Mechanical Systems	Rating		Comments/Concerns	Estim. Cost
4.4.9	Heating piping, valve and/or duct insulation.	4		Piping is insulated throughout.	
4.4.10	Heat exchangers.	NA		Not applicable.	
4.4.11	Heating mixing boxes, dampers and linkages.	NA		Not applicable.	
4.4.12	Heating distribution/circulation in larger spaces (i.e., user comfort, temperature of outside wall surfaces).	3		Some problems with control and distribution of heating were reported. See heating item 4.4.1.	
4.4.13	Zone/unit heaters and controls.	3		Some problems reported with zone and heating control. See heating item 4.4.1..	
Other					

Section 4	Mechanical Systems	Rating	Comments/Concerns		Estim. Cost
4.5	Ventilation Systems		Bldg. Section	Description/Condition	
4.5.1	Air handling units capacity and condition.	3		Central air handling units located in the mechanical room provide air distribution to all areas of the school. A of three units (two in fan room 1 and 1 in fan room 2) are present. Units include air mixing section, filters, hot water coils, swamp coolers/ fans. Units are 32 years old and nearing normal life expectancy.	\$175,000
4.5.2	Outside air for the occupant load (if possible, reference CFM/occupant).	4		Based on system design outside air quantities are being met.	
4.5.3	Air distribution system (if possible, reference number of air changes/hour).	4		Design of the air system would give 4 to 6 air changes.	
4.5.4	Exhaust systems capacity and condition.	4		Exhaust systems are acceptable and properly operating.	
4.5.5	Separation of out flow from air intakes	4		Acceptable.	
4.5.6	Special/dedicated ventilation and/or exhaust systems (i.e., kitchen, labs, CTS areas).	3		Kiln in caretaker area not vented.	\$4,000
Other					

Section 4	Mechanical Systems	Rating	Comments/Concerns		Estim. Cost
4.5	Ventilation Systems (cont'd)		Bldg. Section	Description/Condition	
	<i>Note: Only complete the following items if there are separate ventilation and heating systems.</i>				
4.5.7	Ventilation controls (including use of current energy management technology).	3		Ventilation controls are pneumatic based. See controls item 4.7.1.	
4.5.8	Air filtration systems and filters.	4		Systems has fiberglass filters.	
4.5.9	Humidification system and components.	NA		Not applicable	
4.5.10	Heat exchangers.	NA		Not applicable.	
4.5.11	Ventilation distribution system and components (i.e., ductwork, diffusers, mixing boxes, dampers, linkages).	4		Distribution ductwork is in good condition.	
Other					

Section 4	Mechanical Systems	Rating	Comments/Concerns		Estim. Cost
4.6	Cooling Systems		Bldg. Section	Description/Condition	
4.6.1	Cooling system capacity and condition (i.e., chillers, cooling towers, condensers).	NA			
4.6.2	Cooling distribution system and components (i.e., ductwork, diffusers, mixing boxes, dampers, linkages)	NA			
4.6.3	Cooling system controls (including use of current energy management technology).	NA			
4.6.4	Special/dedicated cooling systems (i.e., labs, CTS areas).	NA			
Other					
4.7	Building Control Systems		Bldg. Section	Description/Condition	
4.7.1	Building wide/system wide control systems and/or energy management systems.	3		Building controls are pneumatic/ electric based only.	\$100,000
	Overall Mech. Systems Condition & Estim. Costs				\$439,000

Section 5	Electrical Systems	Rating	Comments/Concerns		Estim. Cost
5.1	Site Services				
5.1.1	Primary service capacity and reliability (i.e., access, location, components, installation, bus sizes - note whether overhead or underground).	4		Main service - underground, 1200A, 120/208V, 3 phase, 4 wire - is in good condition. Installation was done in 1967.	
5.1.2	Site and building exterior lighting (i.e., safety concerns).	3		No exterior lighting on west and southwest side of school. Require additional lighting.	\$2,000
5.1.3	Vehicle plug-ins (i.e., number, capacity, condition).	3		Some car stalls have no power to them. Add power plugs to 8 stalls. Repair damaged W.P. plates to existing plugs.	\$4,000
Other					
5.2	Life Safety Systems		Bldg. Section	Description/Condition	
5.2.1	Fire and smoke alarm systems (i.e., safety concerns, up-to-date technology, regularly tested).	1		Existing fire alarm system does not meet code requirements and requires new system as well as locations for devices, etc.	\$43,000
5.2.2	Emergency lighting systems (i.e., safety concerns, condition).	3		Existing system is in good condition except more lights are required throughout. Emergency lighting is at minimal standards.	\$7,000
5.2.3	Exit lighting and signage (i.e., safety concerns, condition).	3		Existing system is in good condition. Require more exit lighting in some areas and relocate others due to visual reception.	\$3,000
Other					

Section 5	Electrical Systems	Rating	Comments/Concerns		Estim. Cost
5.3	Power Supply and Distribution		Bldg. Section	Description/Condition	
5.3.1	Power service surge protection.	1		Provide surge protection.	\$1,500
5.3.2	Panels and wireways capacity and condition.	4		Existing panels are in good condition and have approximately 105 vacancy.	
5.3.3	Emergency generator capacity and condition and/or UPS (if applicable).	N/A			
5.3.4	General wiring devices and methods.	4		Overall condition is good.	
5.3.5	Motor controls.	4		Existing loose starters nearing end of lifecycle. Still and operable and replace with attrition.	
Other					

Section 5	Electrical Systems	Rating	Comments/Concerns		Estim. Cost
5.4	Lighting Systems		Bldg. Section	Description/Condition	
5.4.1	Interior lighting systems and components (i.e., illumination levels, conditions, controls).	3		Existing system needs upgrades in most areas, as shown: classrooms +30 (poor), corridors +6 (poor), administration +53 (OK), and gym +38 (OK). Upgrade classrooms and corridors.	\$80,000
5.4.2	Replacement of ballasts (i.e., health and safety concerns).	4		No concerns noted.	
5.4.3	Implementation of energy efficiency measures and recommendations.	3		Retrofit remaining lights not listed in Section 5.4.1. Replace exit lamps with LED style.	\$10,000
Other					

Section 5	Electrical Systems	Rating	Comments/Concerns		Estim. Cost
5.5	Network and Communication Systems		Bldg. Section	Description/Condition	
5.5.1	Telephone system and components (i.e., capacity, reliability, condition).	4		Existing system is in good condition.	
5.5.2	Other communication systems (i.e., public address, intercom, CCTV, satellite or cable TV).	4		Existing system is in good condition.	
5.5.3	Network cabling (if available, should be category 5 or better).	4		All cabling is category 5.	
5.5.4	Network cabling installation (i.e., in conduit, secured to walls or tables).	4		Cabling is installed in conduit.	
5.5.5	Wiring and telecommunication closets (i.e., size, security, ventilation/cooling, capacity for growth).	4		Equipment is located in caretaker's office and is in good condition. No need for ventilation.	
5.5.6	Provision for dedicated circuits for network equipment (i.e., hubs, switches, computers).	4		Equipment is supplied with dedicated circuit.	
Other					

Section 5	Electrical Systems	Rating	Comments/Concerns		Estim. Cost
5.6	Miscellaneous Systems		Bldg. Section	Description/Condition	
5.6.1	Site and building surveillance system (if applicable).	N/A			
5.6.2	Intrusion alarms (if applicable).	4		Security system is in good condition.	
5.6.3	Master clock system (if applicable).	4		Master clock system is only in part of school and is in good condition.	
Other					
5.7	Elevators/Disabled Lifts (If applicable)				
5.7.1	Elevator/lift size, access and operating features (i.e., sensing devices, buttons, phones, detectors).	N/A			
5.7.2	Condition of elevators/lifts.	N/A			
5.7.3	Lighting and ventilation of elevators/lifts.	N/A			
Other					
	Overall Elect. Systems Condition & Estim Costs				\$150,500

Section 6	Portable Buildings	Rating	Comments/Concerns	Estim. Cost
	<i>Note: Separate sheets can be completed, if necessary, for portable buildings of different ages and/or conditions.</i>	N/A		
6.1.1	Foundation and structure (i.e., signs of bending, cracking, settlement, rust, voids, stains).			
6.1.2	Roof materials and components (i.e., signs of deterioration, leaks, ice build-up).			
6.1.3	Exterior wall finishes (i.e., signs of deterioration, cracks, water stains).			
6.1.4	Doors and windows (i.e., signs of deterioration, rusting hardware, glass cracks, peeling paint, damaged seals).			
6.1.5	Interior finishes (i.e., floors, walls, ceiling).			
6.1.6	Millwork (i.e., counters, shelving, vanities, cabinets).			
6.1.7	Fixed/wall mounted equipment (i.e., writing boards, tackboards, display boards, signs)			
6.1.8	Heating system.			
6.1.9	Ventilation system.			
6.1.10	Electrical, communication and data network systems.			
6.1.11	Health and safety concerns (i.e., fire and smoke alarms, fire protection systems, exiting, fire resistance rating of materials).			
6.1.12	Barrier-free access.			
	Overall Portable Bldgs Condition & Estim Costs			\$0

Section 7 Space Adequacy		This Facility			Equiv. New Facility			Surplus/ Deficiency	Comments/Concerns
		No.	Size	Total Area	No.	Size	Total Area		
7.1	Classrooms	16	VAR.	1288	12	80	960	328	
7.2	Science Rooms/Labs	1		86	2	95	190	-104	
7.3	Ancillary Areas (i.e., Art, Computer Labs, Drama, Music,)	1		115	1 3	130 90	400	-285	
7.4	Gymnasium (incl. gym storage)	1		240	1		473	-233	
7.5	Library/Resource Areas	1		194	1		200	-6	
7.6	Administration/Staff, Physical Education, Storage Areas			182			505	-323	
7.7	CTS Areas								
	7.7.1 Business Education								
	7.7.2 Home Economics								
	7.7.3 Industrial Arts								
	7.7.4 Other CTS Programs								
7.8	Other Non-Instructional Areas (i.e., circulation, wall area, crush space, wc area)			912			985	-73	
	Overall Space Adequacy Assessment	20		3017	20		3713	-696	