

SHERWOOD FOREST ELEMENTARY SCHOOL

DLR Group

GraceHebert
ARCHITECTS

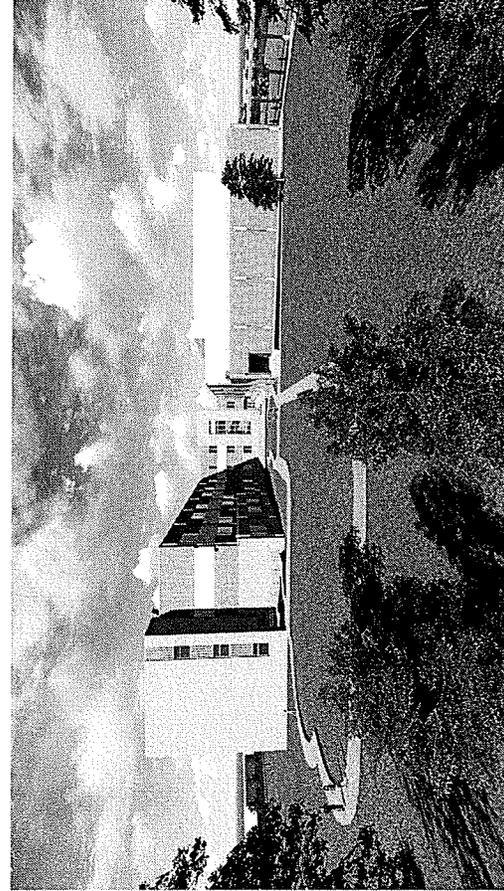
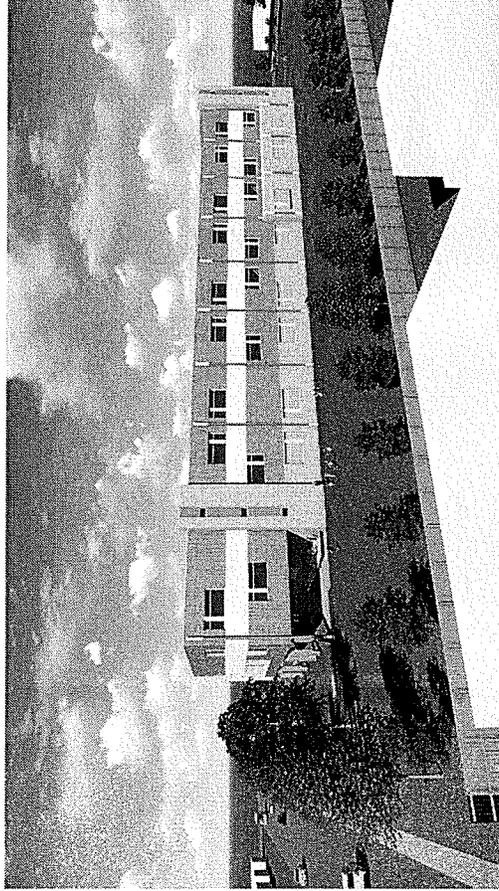
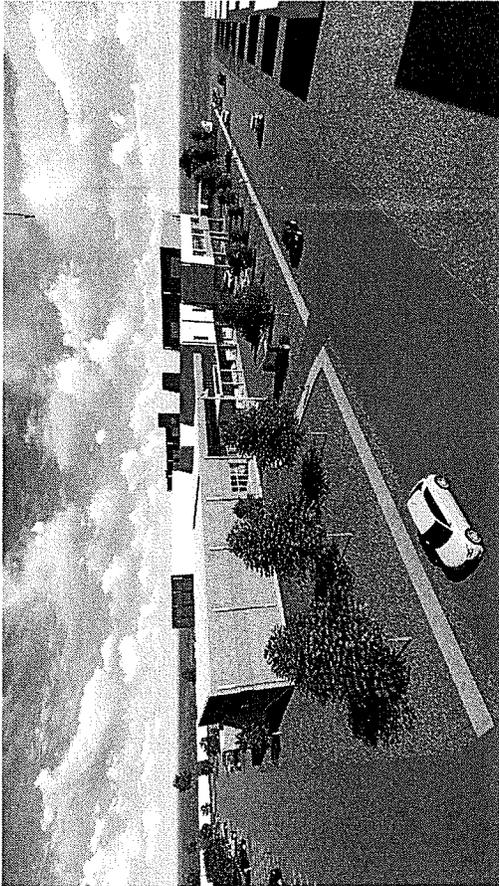


SHERWOOD FOREST | EXTERIOR RENDERING | 9/19/2014

SHERWOOD FOREST ELEMENTARY SCHOOL

DLR Group

Grace Hébert Architects



BUILDING MATERIALITY

Exterior Building Materials:

The following building materials represent the current basis of design selections and are intended to convey the overall aesthetic of the proposed Sherwood Forest Elementary School. Please note that exact selections of building materials are subject to change based on budget and availability as the project progresses. Physical samples are provided as part of this submission.

Exterior Masonry:

- Brick 1: Palmetto Brick, Color: 2.0 Greystone
- Brick 2: Palmetto Brick, Color: .75 Greystone

Metal Wall Panel:

- Metal Panel 1: Pac-Clad Reveal Wall Panel, Color: Pac-Clad, Almond
- Metal Panel 2: Berridge Standard L-Panel, Color: Pac-Clad, Almond
- Metal Panel 3: Pac-Clad PAC Precision Series, Color: Sheffield Metals, Patina Green

Aluminum Storefront/Curtainwall Systems:

- Aluminum Storefront/Curtainwall: Kawneer/Traco, Color: Clear Anodized Aluminum, Glazing: Insulated glazing unit with Low-E coating.

Railing Systems:

- Stainless steel handrails and guardrails at all primary public entrances.
- Hot-dipped galvanized handrails and guardrails at all other public entrances.

Roofing Systems:

- Soprema Soprastar SBS elastomeric bitumen roofing with min. 2% slope.

Exterior Door Systems:

- Hollow Metal Doors and Frames, Color: TBD

Site Lighting:

The following site lighting fixtures represent the current basis of design selections. Please note that exact selections of lighting fixtures are subject to change based on budget and availability as the project progresses.

Exterior Lighting:

- S1 (light poles): McGraw-Edison, The Galleon LED luminaire
- S2 (wall mounted lighting): Invue, Entri LED Round Reveals luminaire
- S3 (can lights): Portfolio, LD6A10/LD6A15/6LM, 6" LED medium beam down-light



DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated.

Catalog #		Type	
Project	Paul Habans		S1
Comments		Date	
Prepared by			

SPECIFICATION FEATURES

Construction

Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

Optics

Choice of 16 patented, high-efficiency AccuLED Optics. The optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 6000K CCT and 3000K CCT. For the ultimate level of spill light control, an optional house side shield accessory can

be field or factory installed. The house side shield is designed to seamlessly integrate with the SL2, SL3, SL4 or AFL optics.

Electrical

LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. Standard with 0-10V dimming. Shipped standard with Cooper Lighting proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 530mA and 700mA drive currents.

easy positioning of fixture during assembly. Designed for pole or wall mounting. When mounting two or more luminaires at 90° or 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table on page 3. Round pole top adapter included. For wall mounting, specify wall mount bracket option. 3G vibration rated.

Finish

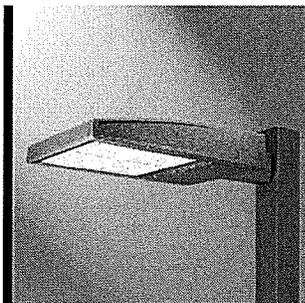
Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult the McGraw-Edison Architectural Colors brochure for the complete selection.

Warranty

Five-year warranty.

Mounting

Extruded aluminum arm includes internal bolt guides allowing for



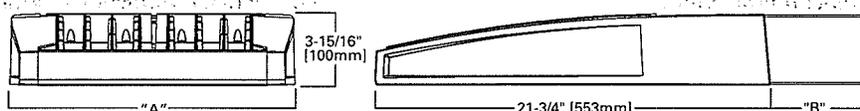
GLEON GALLEON LED

1-10 Light Squares
Solid State LED

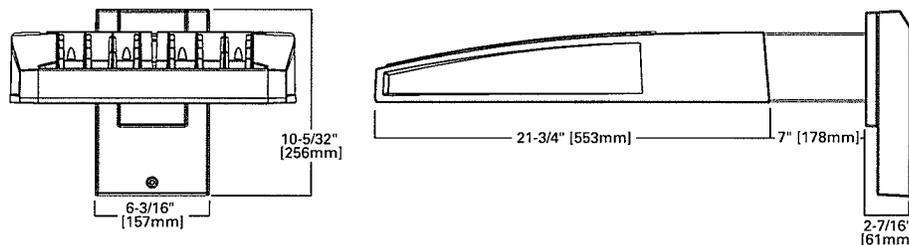
AREA/SITE LUMINAIRE

DIMENSIONS

POLE MOUNT



WALL MOUNT



DIMENSION DATA

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length ¹	Weight with Arm (lbs.)	EPA with Arm ² (Sq. Ft.)
1-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)	33 (15.0 kgs.)	0.96
5-6	21-5/8" (549mm)	7" (178mm)	10" (254mm)	44 (20.0 kgs.)	1.00
7-8	27-5/8" (702mm)	7" (178mm)	13" (330mm)	54 (24.5 kgs.)	1.07
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	63 (28.6 kgs.)	1.12

NOTES: 1 Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table. 2 EPA calculated with optional arm length.

Cooper Lighting

by F.T.N



CERTIFICATION DATA

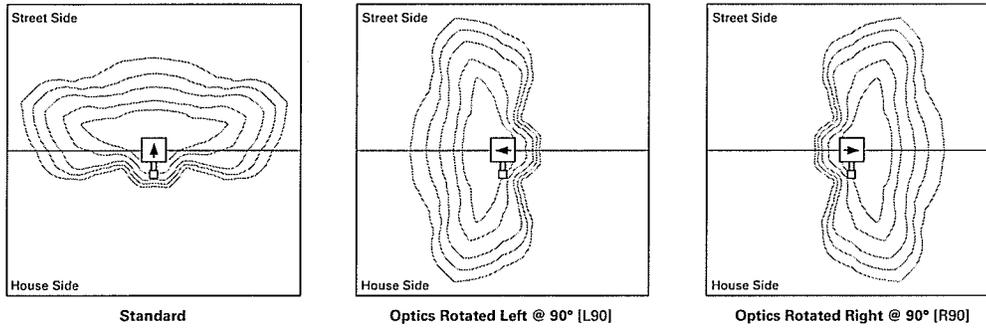
UL/cUL Wet Location Listed
ISO 9001
LM79 / LM80 Compliant
3G Vibration Rated
IP66 Rated
DesignLights Consortium® Qualified*

ENERGY DATA

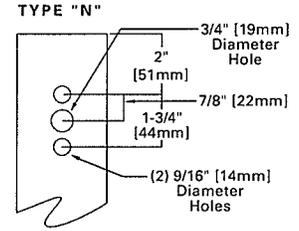
Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120V-277V 50/60Hz
347V & 480V 60Hz
-40°C Min. Temperature
40°C Max. Temperature
50°C Max. Temperature (HA Option)



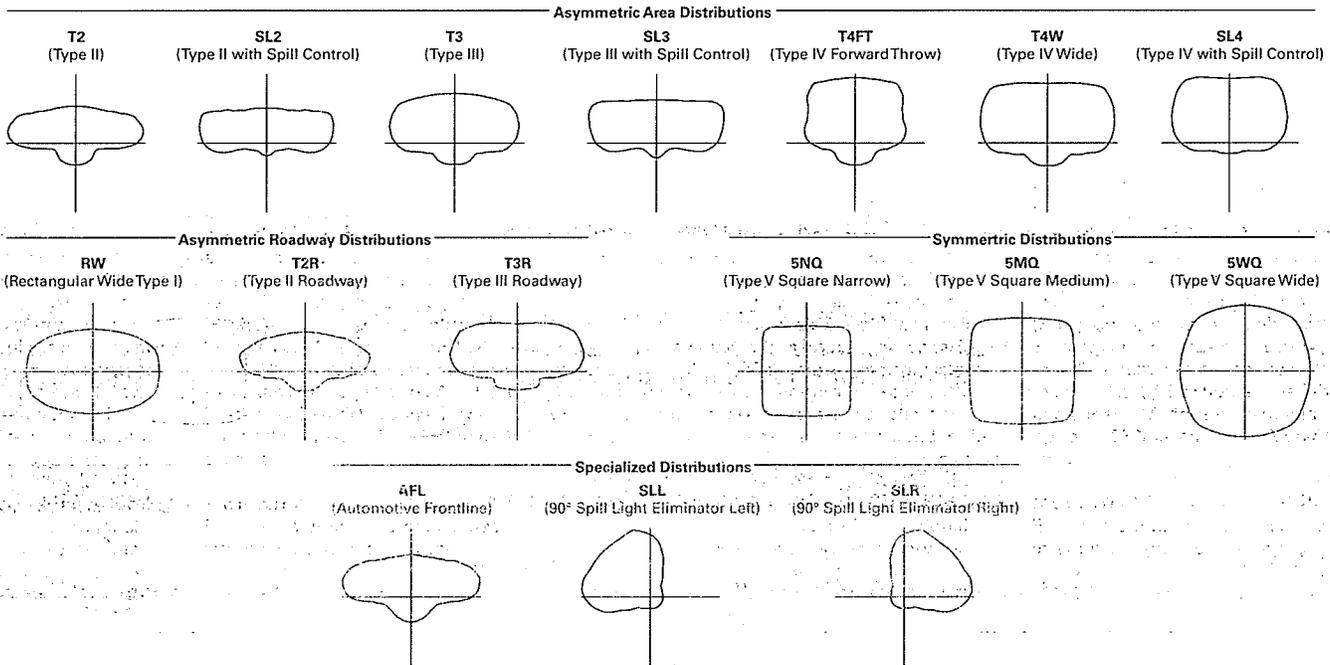
OPTIC ORIENTATION



DRILLING PATTERN

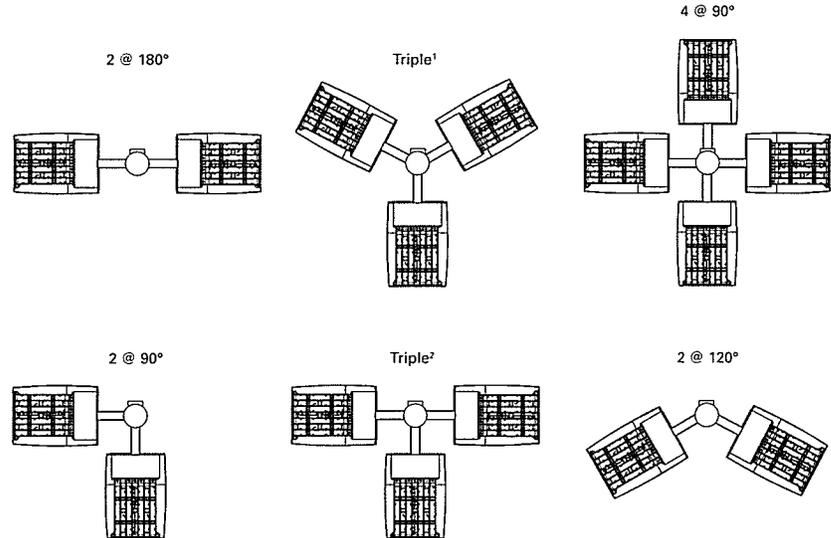


OPTICAL DISTRIBUTIONS



ARM MOUNTING REQUIREMENTS

Configuration	90° Apart	120° Apart
GLEON-AE-01	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-02	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-03	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-04	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-05	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AE-06	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AE-07	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AE-08	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AE-09	16" Extended Arm (Required)	16" Extended Arm (Required)
GLEON-AE-10	16" Extended Arm (Required)	16" Extended Arm (Required)



LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C	> 90%	> 170,000

ORDERING INFORMATION

Sample Number: GLEON-AE-04-LED-E1-T3-GM-700

Product Family ¹	Light Engine	Number of Light Squares ²	Lamp Type	Voltage	Distribution	Color	Mounting
GLEON=Galleon	AE=1A Drive Current	01=1 02=2 03=3 04=4 05=5 06=6 07=7 08=8 09=9 10=10	LED=Solid State Light Emitting Diodes	E1=120-277V 347=347V ³ 480=480V ³	T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide 5NQ=Type V Narrow 5MQ=Type V Square Medium 5WQ=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I AFL=Automotive Frontline	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White	[Blank]=Arm for Round or Square Pole EA=Extended Arm ⁴ MA=Mast Arm Adapter ⁵ WM=Wall Mount
Options (Add as Suffix):					Accessories (Order Separately)		
2L=Two Circuits ^{6,7} 7030=70 CRI 3000K ⁸ 7060=70 CRI 6000K ⁸ 530=Drive Current Factory Set to 530mA ⁹ 700=Drive Current Factory Set to 700mA ⁹ P=Button Type Photocontrol (120, 208, 240 or 277V) PER7=NEMA 7-Pin Twistlock Photocontrol Receptacle R=NEMA Twistlock Photocontrol Receptacle HA=50°C High Ambient ⁷ MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height ^{10,11,12,13} MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height ^{10,11,12,13} MS/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height ^{10,11,12,13} MS/X-L08=Bi-Level Motion Sensor, Maximum 8' Mounting Height ^{10,11,12,13} MS/X-L20=Bi-Level Motion Sensor, 9' - 20' Mounting Height ^{10,11,12,13} MS/X-L40=Bi-Level Motion Sensor, 21' - 40' Mounting Height ^{10,11,12,13} MS-L08=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height ^{10,11,12,13} MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height ^{10,11,12,13} MS-L40=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height ^{10,11,12,13} DIMRF-LW=LumaWatt Wireless Sensor, Wide Lens for 8' - 16' Mounting Height ¹⁴ DIMRF-LN=LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height ¹⁴ L90=Optics Rotated 90° Left R90=Optics Rotated 90° Right MT=Factory Installed Mesh Top TH=Tool-less Door Hardware LCF=Light Square Trim Plate Painted to Match Housing ¹⁵ HSS=Factory Installed House Side Shield ¹⁶					OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V OA/RA1027=NEMA Photocontrol - 480V OA/RA1201=NEMA Photocontrol - 347V OA/RA1013=Photocontrol Shorting Cap OA/RA1014=120V Photocontrol MA1252=10KV Surge Module Replacement MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon MA1037-XX=2 @ 180° Tenon Adapter for 2-3/8" O.D. Tenon MA1197-XX=3 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon MA1188-XX=4 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1189-XX=2 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1190-XX=3 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1191-XX=2 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon MA1039-XX=2 @ 180° Tenon Adapter for 3-1/2" O.D. Tenon MA1192-XX=3 @ 120° Tenon Adapter for 3-1/2" O.D. Tenon MA1193-XX=4 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon MA1194-XX=2 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon MA1195-XX=3 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon FSIR-100=Wireless Configuration Tool for Occupancy Sensor ¹⁷ GLEON-MT1=Field Installed Mesh Top for 1-4 Light Squares GLEON-MT2=Field Installed Mesh Top for 5-6 Light Squares GLEON-MT3=Field Installed Mesh Top for 7-8 Light Squares GLEON-MT4=Field Installed Mesh Top for 9-10 Light Squares LS/HSS=Field Installed House Side Shield ^{16,18}		

Notes:

- DesignLights Consortium⁹ Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
- Standard 4000K CCT and minimum 70 CRI.
- Requires the use of a step down transformer when combined with MS/DIM, MS/X or DIMRF.
- May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table.
- Factory installed.
- 2L is not available with MS, MS/X or MS/DIM at 347V or 480V. 2L in AE-02 through AE-04 requires a larger housing, normally used for AE-05 or AE-06. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table.
- Not available with LumaWatt wireless sensors.
- Extended lead times apply. Use dedicated IES files for 3000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.
- 1 Amp standard. Use dedicated IES files for 530mA and 700mA when performing layouts. These files are published on the Galleon luminaire product page on the website.
- Consult factory for more information.
- Replace E1 with specific voltage.
- The FSIR-100 accessory is required to adjust parameters.
- Not available with HA option.
- LumaWatt wireless sensors are factory installed only requiring network components RF-EM1, RF-GW1 and RF-ROUT1 in appropriate quantities. See www.cooperlighting.com for LumaWatt application information.
- Not available with house side shield (HSS).
- Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected.
- This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your Eaton's Cooper Lighting business representative for additional details.
- One required for each Light Square.

DESCRIPTION

Entri LED features a classic and stylish design with the added benefits of solid state lighting technology, offering outstanding uniformity and energy savings. Using Cooper Lighting's proprietary LED LightBAR™ technology and AccuLED optical systems, Entri LED offers designers vast versatility in system design, function and performance. Use Entri LED for wall mount architectural lighting applications and egress lighting requirements. UL/cUL listed for use in wet locations.

Catalog #		Type	S2
Project	Paul Habans	Date	
Comments			
Prepared by			

SPECIFICATION FEATURES

Construction

HOUSING: Heavy wall, one-piece, die-cast aluminum construction for precise tolerance control and repeatability in manufacturing. Integral extruded aluminum heat sink provides superior thermal heat transfer in +40°C ambient environments. Housing and heat sink are designed to offer various options for down lighting, up lighting or a combination of both up and down. **FACEPLATE / DOOR:** One-piece die-cast aluminum construction. Captive, side hinged faceplate swings open via release of one (1) flush mount die-cast aluminum latch on housing side panel. Door closure and seal is ensured through a robust and positive retention bale latch, which upon closing can be heard through distinct sound. **GASKET:** One-piece molded silicone gasket mates perfectly between the door and housing for repeatable seal. Silicone wire way plug on housing back wall seals incoming electrical leads to prevent moisture and dust entry. **LENS:** Uplight lens is impact resistant, 5/32" thick tempered frosted glass sealed to housing with continuous bead silicone gasket. Downlight lens is LED board integrated acrylic over-optics, each individually sealed for IP66 rating. **HARDWARE:** Stainless steel mounting screws and latch hardware allow access to electrical components for installation and servicing.

Optics

DISTRIBUTION: Primary downlight distribution offers a choice of six (6) patented, high-efficiency AccuLED Optics™, that maximize light collection and direction distribution onto the application region. Each optical lens is precision manufactured via injection-molding, then precisely arranged and sealed on the board media. Optional uplight LED distribution features a diffuse soft glow for enhancing architectural scenes or accentuating structural features. **LEDs:** High output LEDs, 50,000+ hour's life at >70% lumen maintenance, offered standard in 4000K (+/- 275K) CCT and nominal 70 CRI.

Electrical

DRIVER: LED drivers are potted and heat sunk for optimal performance and prolonged life. Standard drivers feature electronic universal voltage (120-277V/50-60hz), greater than 0.9 power factor, less than 20% harmonic distortion and feature ambient temperature range of +40°C (104°F) down to minimum starting temperature of -30°C (-22°F). Shipped standard with Cooper Lighting proprietary circuit module designed to withstand 10kV of transient line surge. Options to control light levels, energy savings and egress capabilities (battery pack and separate circuit) are available. All LED LightBARs™ and drivers are mounted to a primary mounting plate and are easily replaced by use of quick disconnects for ease of wiring.

Mounting

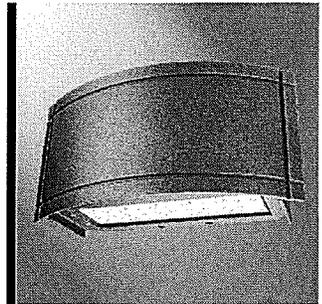
JUNCTION BOX: Standard with zinc plated quick-mount junction box plate that mounts directly to 4" J-Box. LightBARS mount facing downward. Fixture slides over mounting plate and is secured with two (2) stainless steel fasteners. Mounting plate features a one-piece EPDM gasket on back side of plate to firmly seal fixture to wall surface, forbidding entry of moisture and particulates. Optional mounting arrangements utilize a die-cast mounting adaptor box to allow for LED battery pack, surface conduit and through branch wiring. Entri LED is approved for mounting on combustible surfaces.

Finish

Housing is finished in 5-stage Super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. LightBAR™ cover plates are standard white and may be specified to match finish of luminaire housing. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult Outdoor Architectural Colors brochure for a complete selection.

Warranty

Entri LED features a five-year limited warranty.



ENV ENTRI LED ROUND REVEALS

1 - 2 LightBARs
Solid State LED

ARCHITECTURAL WALL LUMINAIRE

DESIGNLIGHTS CONSORTIUM

CERTIFICATION DATA

UL/cUL Listed
ISO 9001
IP66 LightBARs
ARRA Compliant
LM79 / LM80 Compliant

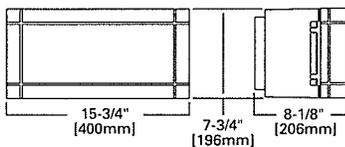
ENERGY DATA

Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120-277V/50 & 60hz, 347V/60hz, 480V/60hz
-30°C Minimum Temperature
40°C Ambient Temperature Rating

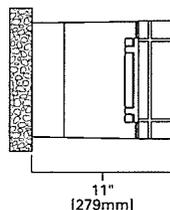
SHIPPING DATA

Approximate Net Weight:
16 lbs. (7.3 kgs.)

DIMENSIONS



CONDUIT MOUNT / BATTERY BACK BOX



POWER AND LUMENS BY BAR COUNT

Number of LightBARs	DISTRIBUTION							
	Power [Watts]	Current @ 120V [A]	Current @ 277V [A]	BL2	BL3	BL4	GZW	SLR/SLL
7 LED LIGHTBAR								
C01	27	0.23	0.13	1,770	1,625	1,720	1,725	1,571
C02	54	0.46	0.21	3,540	3,249	3,440	3,450	3,142
21 LED LIGHTBAR								
B01	27	0.23	0.13	2,177	1,998	2,115	2,122	1,932
B02	51	0.43	0.20	4,354	3,996	4,231	4,244	3,865

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
10°C	1.04
15°C	1.03
25°C	1.00
40°C	0.96

ORDERING INFORMATION

Sample Number: ENV-B02-LED-E1-BL3-GM

Product Family ENV: Entri Round Reveals	Lamp Type LED: Solid State Light Emitting Diodes	Distribution BL2: Type II w/Back Light Control BL3: Type III w/Back Light Control BL4: Type IV w/Back Light Control GZW=Wall Grazer Wide SLL=90 Degree Spill Light Eliminator Left SLR=90 Degree Spill Light Eliminator Right	Finish BK: Black AP: Grey BZ: Bronze WH=White DP=Dark Platinum GM=Graphite Metallic	Options ULG: Uplight Glow PC: Button Type Photocell (Available in 120V, 208V, 240V, and 277V) WG=Wire Guard 2L=Two Circuits ⁶ TP=Tamper Resistant Hardware LCF=LightBAR Cover Plate Matches Housing Finish 7060=70 CRI/6000K CCT ⁷ 8030=80 CRI/3000K CCT ⁷ OSB=Occupancy Sensor with ⁸ Back Box BBB=Battery Pack with Back ⁹ Box (Specify 120 or 277) CWB=Cold Weather Battery ¹⁰ Pack with Back Box (Specify 120 or 277)	Accessories VA2001-XX: Thru-Way Conduit Adaptor Box VA6172: Wire Guard VA6173=Tamper Resistant Driver Bits MA1253=10kV Circuit Module Replacement
Number of Lightbars B01=[1] 21 LED LightBAR B02=[2] 21 LED LightBARs C01=[1] 7 LED LightBARs C02=[2] 7 LED LightBARs	Voltage E1=Electronic (120-277V) 347=347V 480=480V				

- Notes:
- DesignLights™ Consortium Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
 - Standard 4000 K CCT and greater than 70 CRI LightBARs for downlight use only.
 - 21 LED LightBAR powered at 350mA, 7 LED LightBAR powered at 1A.
 - Custom and RAL color matching available upon request. Consult your customer service representative for further information.
 - Add as suffix in the order shown.
 - Low-level output varies by bar count, consult factory. Not available with 347V or 480V. Available with 2 bars (B02 or C02) only.
 - Consult customer service for lead times and lumen multiplier.
 - Available with B02 or C02, only (1) LightBAR on street side will be wired to sensor. Time Delay factory setting 15 minutes. When ordered with Option PC, both light bars will connect to photocell as primary switching means. Standard sensor lens covers 8-foot mount height, 360-degree coverage, maximum 48-foot diameter. Not available in all configurations or with BBB or CWB options.
 - Specify 120 or 277V. LED standard integral battery pack is rated for minimum operating temperature 32°F (0°C). Operates (1) lightbar for 90 minutes. Not available in all configurations or with OSB option. Consult factory.
 - Specify 120 or 277V. LED cold weather integral battery pack is rated for minimum operating temperature -4°F (-20°C). Operates (1) lightbar for 90 minutes. Not available in all configurations or with OSB option.
 - Order separately, replace XX with color suffix.

DESCRIPTION

6 inch LED recessed medium beam downlight with 50° cut off specially designed for LED technology. Two-stage reflector system produces smooth distribution with excellent light control and low aperture brightness. Lumen packages include 1000 and 1500 delivered lumens with color temperatures of 2700K, 3000K, 3500K, 4000K. Suitable for commercial construction and exceeds high efficacy requirements (with designated trims) for T24. Energy Star qualified.

Catalog #		Type	S3
Project	Paul Habans	Date	
Comments			
Prepared by			

SPECIFICATION FEATURES

Lower Shielding Reflector
Self-flanged, spun .050" thick aluminum lower reflector in combination with a lensed upper optical chamber provides superior lumen output with minimal source brightness. Available in all Portfolio Alzak® finishes.

Trim Retention
Lower reflector is retained with two torsion springs holding the flange tightly to the finished ceiling surface.

Plaster Frame / Collar
New Construction Housing: Die cast aluminum 1-1/2" deep collar accommodates ceiling materials up to 2".

Universal Mounting Bracket
Accepts 1/2" EMT, C channel and bar hangers and adjusts 5" vertically from above and below the ceiling.

Junction Box
(4) 1/2" and (2) 3/4" trade size pry outs positioned to allow straight conduit runs. Listed for (8) #12 AWG (four in, four out) 90°C conductors and feed thru branch wiring.

Thermal
Extruded aluminum heat sink conducts heat away from the LED module for improved performance and longer life.

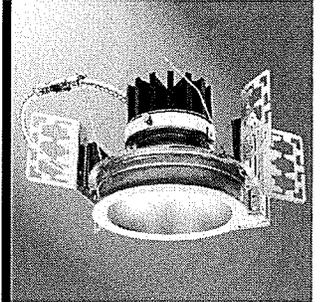
LED
LED system contains a plurality of high brightness white LED's combined with a high reflectance upper reflector and convex transitional lens producing even distribution with no pixilation. Rated for 50,000 hours at 70% lumen maintenance. Auto resetting, thermally protected, LED's are turned off when safe operating temperatures are exceeded. Color variation within 3-step MacAdam ellipses. Flexible disconnect allows for tool-less replacement of LED engine from below ceiling. Available in 80 or 90-CRI.

Driver
Combination 120-277V 0-10V or 120V trailing edge phase cut driver provides flicker free dimming from 100% to 10%. Optional 1% 0-10V, Fifth Light, DMX or Lutron® Ecosystem. Driver can be serviced from above or through the aperture.

Environmental
Fixture should not be operated in ambient temperatures above 40° C.

Code Compliance
Thermally protected and cULus listed for protected wet locations. IP66 rated when used with IP66 gasket kit accessory. Optional City of Chicago environmental air (CCEA) marking for plenum applications. EMI/RFI emissions per FCC 47CFR Part 18 Class B consumer limits. Non-IC rated - Insulation must be kept 3" from top and sides of housing. RoHS Compliant. Photometric testing completed in accordance with IES LM 79 standards. LED life testing completed in accordance with LM 80 standards.

Warranty
5 year warranty on LED housings, LED Modules and LED Trims.



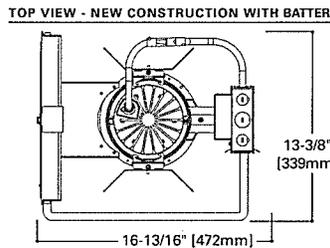
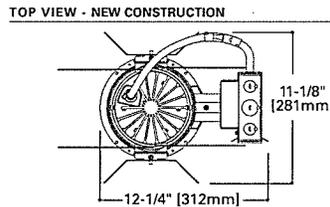
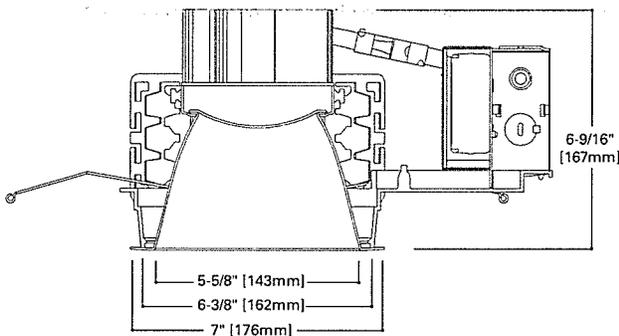
**LD6A10 LD6A15
6LM**

1000 Lumen LED
1500 Lumen LED

6-Inch
Medium Beam Downlight
New Construction



Qualified and Compliant. Refer to the ENERGY STAR® Qualified Product List and CEC (T24) Appliance Database for listings.



ENERGY DATA	
Sound Rating: Class A standards	
Operating Temperature: 40°C (104°F)	
1500 Lumen D010TE	
(Values at non-dimming line voltage)	
Minimum Starting Temperature: -30°C (-22°F)	
EMI/RFI: FCC Title 47 CFR, Part 15, Class B (Consumer)	
Input Voltage: UNV (120V - 277V)	
Power Factor: >0.90 (at nominal input 120/277 VAC & 100% of Rated Output Power)	
Input Power: 22.4W	THD: <20%
120V Input Current: .12A	277V Input Current: .09A
Maximum Non-IC Ambient Continuous	
Input Frequency: 50-60Hz	
1000 Lumen D010TE	
(Values at non-dimming line voltage)	
Minimum Starting Temperature: -30°C (-22°F)	
EMI/RFI: FCC Title 47 CFR, Part 15, Class B (Consumer)	
Input Voltage: UNV (120V - 277V)	
Power Factor: >0.90 (at nominal input 120/277 VAC & 100% of Rated Output Power)	
Input Power: 14.1W	THD: <20%
120V Input Current: .12A	277V Input Current: .06A
Maximum Non-IC Ambient Continuous	
Input Frequency: 50-60Hz	



ORDERING INFORMATION

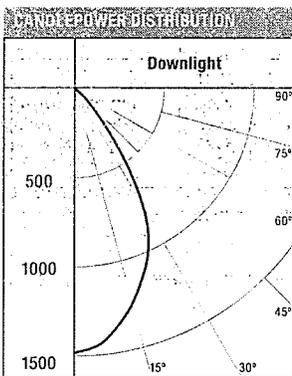
EXAMPLE: LD6A15D010TE ERM6A15835 6LM0LI=6" LED Medium Beam Reflector, 1500 Lumen 3,500 K Color with Universal 120 - 277V, 0 - 10 Driver

Housing	Lumens ¹	Driver	Options	Power Module	CRI	Color
LD6A=6" Aperture, LD6ACP=6" Aperture	10=1000 Lumens 15=1500 Lumens	D010TE=120-277V 0-10V 10% Dimming or Trailing Edge 120V Dimming D010TR=120-277V 0-10V 10% Dimming or Leading Edge 120V Dimming D5LT=Fifth Light ³ (DALI) Dimming 1-100% DE010=1 to 100% Dimming, 120-277V 50/60Hz, 0-10V DL3=1 to 100% Dimming, 120-277V Lutron [®] Hi-Lume, Ecosystem or 3 Wire DLT=1 to 100% Dimming, 120V Lutron [®] Hi-Lume Forward Phase Dimming DMX=DMX Dimming 1-100%	EMBOD=Bodine [®] Emergency Module with Remote Test Switch IEMBOD=Bodine [®] Emergency Module with Integral test Switch ³	ERM6A10=6", 1000 Lumen Module for Medium Beam Reflector ERM6A15=6", 1500 Lumen Module for Medium Beam Reflector	8=80 CRI 9=90 CRI	27=2700° K 30=3000° K 35=3500° K 40=4000° K 27CP=2700° K, Chicago Plenum 30CP=3000° K, Chicago plenum 35CP=3500° K, Chicago Plenum 40CP=4000° K, Chiago Plenum

Reflector	Finish	Options	Accessories
6LM0=6" Medium Reflector, Polymer Trim Ring 6LM1=6" Medium Reflector, Self-flanged 6LM0E=6" Medium Reflector, Polymer Trim Ring for use with IEM Integral Emergency Option 6LM1E=6" Medium Reflector, Self-flanged for use with IEM Integral Emergency Option	LI=Specular Clear H=Semi-Specular Clear WMH=Warm Haze G=Specular Gold WH=Wheat WHH=Wheat Haze GP=Graphite GPH=Graphite Haze	B=Specular Black W=Gloss White <u>6LM0, 6LM0E Only</u> BB=Black Baffle WB=White Baffle	HB26=C-channel Bar Hanger, 26" Long, Pair HB50=C-channel Bar Hanger, 50" Long, Pair RMB22=Wood Joist Bar Hanger, 22" Long, Pair H277=277 To 120V Step Down Transformer, 300VA H347=347 To 120V Step Down Transformer, 75VA H347200=347 to 120V Step Down Transformer, 200VA Housings, Specify Slope HSA6=Slope Adapter for 6" Aperture Housings, Specify Slope TRM6=Metal Trim Ring, Specify Color ² TRR6=Rimless Trim Ring ² DT6=Deco Trim ² LGSKT6IP66= P66 Gasket Kit

- Notes: 1 Nominal Lumens will vary depending on selected color, driver and reflector finish.
2 Order trim with polymer trim ring (Consult specification sheet for color ordering information and options).
3 Not available with Chicago Plenum.

PHOTOMETRICS



Test Number	P98227
LD6A15D010TE ERM6A835 6LM1H	
Lumens	1347
Efficacy	61.8 Lm/W
Watts	21.8
CCT	3500K
SC	0.92

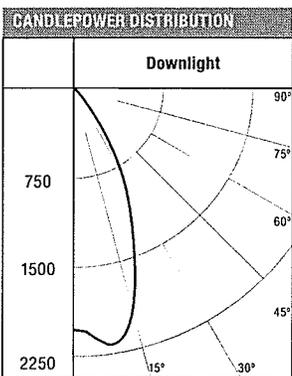
Distance Fixture to Lighted Plane	Initial Footcandles at Nadir	Beam Diameter
5'5"	48	5.0
7'	30	6.5
8'	22	7.0
9'	18	8.0
10'	14	9.0
12'	10	11.0

Degrees Vertical	Candela
0	1468
5	1436
15	1238
25	969
35	468
45	116
55	25
65	8
75	2
85	0
90	0

Zone	Lumens	%Fixture
0-30	919	68.2
0-40	1213	90.1
0-60	1336	99.2
0-90	1347	100
90-180	0	0
0-180	1347	100

Average Candella Degrees	Average 0° Luminance
45	10749
55	2889
65	1158
75	378
85	0

EMBOB MULTIPLIER
1000 Lumen= .64
1500 Lumen= .45



Test Number	P97379
LD6A15D010TE ERM6A835 6LM1LI	
Lumens	1509
Efficacy	69.2 Lm/W
Watts	21.8
CCT	3500K
SC	0.83

Distance Fixture to Lighted Plane	Initial Footcandles at Nadir	Beam Diameter
5'5"	69	4.0
7'	42	5.6
8'	32	6.0
9'	25	7.0
10'	21	8.0
12'	14	9.5

Degrees Vertical	Candela
0	2018
5	2098
15	1908
25	1097
35	381
45	29
55	4
65	1
75	0
85	0
90	0

Zone	Lumens	%Fixture
0-30	1225	81.2
0-40	1471	97.5
0-60	1507	99.9
0-90	1509	100
90-180	0	0
0-180	1509	100

Average Candella Degrees	Average 0° Luminance
45	2676
55	455
65	154
75	0
85	0

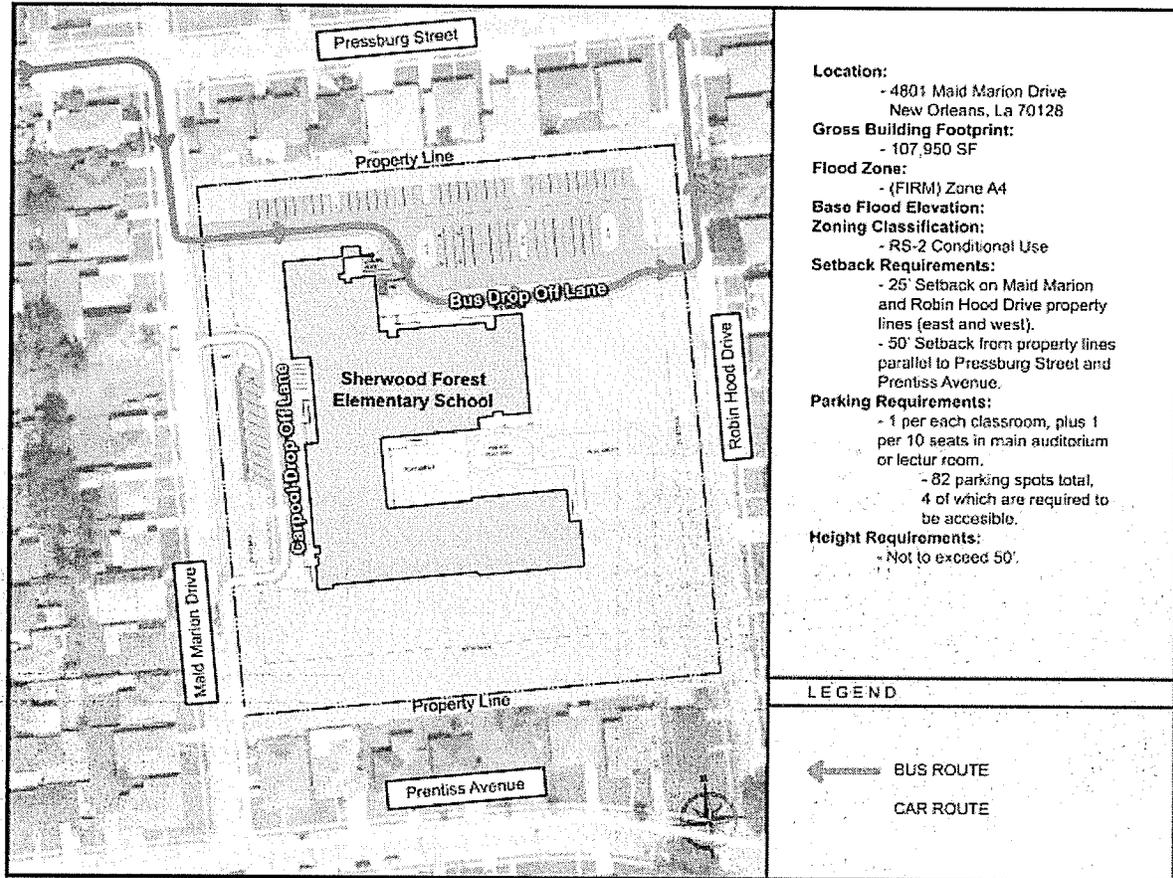
EMBOB MULTIPLIER
1000 Lumen= .64
1500 Lumen= .45

Lumen Output Bodine...Emergency .45

PHOTOMETRICS

CCT Multiplication Factors		CCT [K]	Multiplier from 3500K	80 -> 90 CRI
80 CRI	1000 Lumen	2700	0.93	
		3000	0.99	
		3500	1.00	
		4000	1.01	
	1500 Lumen	2700	0.93	
		3000	0.99	
		3500	1.00	
		4000	1.01	
90 CRI	1000 Lumen	2700	0.88	0.79
		3000	0.95	0.80
		3500	1.00	0.84
		4000	1.03	0.86
	1500 Lumen	2700	0.88	0.79
		3000	0.94	0.79
		3500	1.00	0.84
		4000	1.03	0.86

Site Traffic Flow



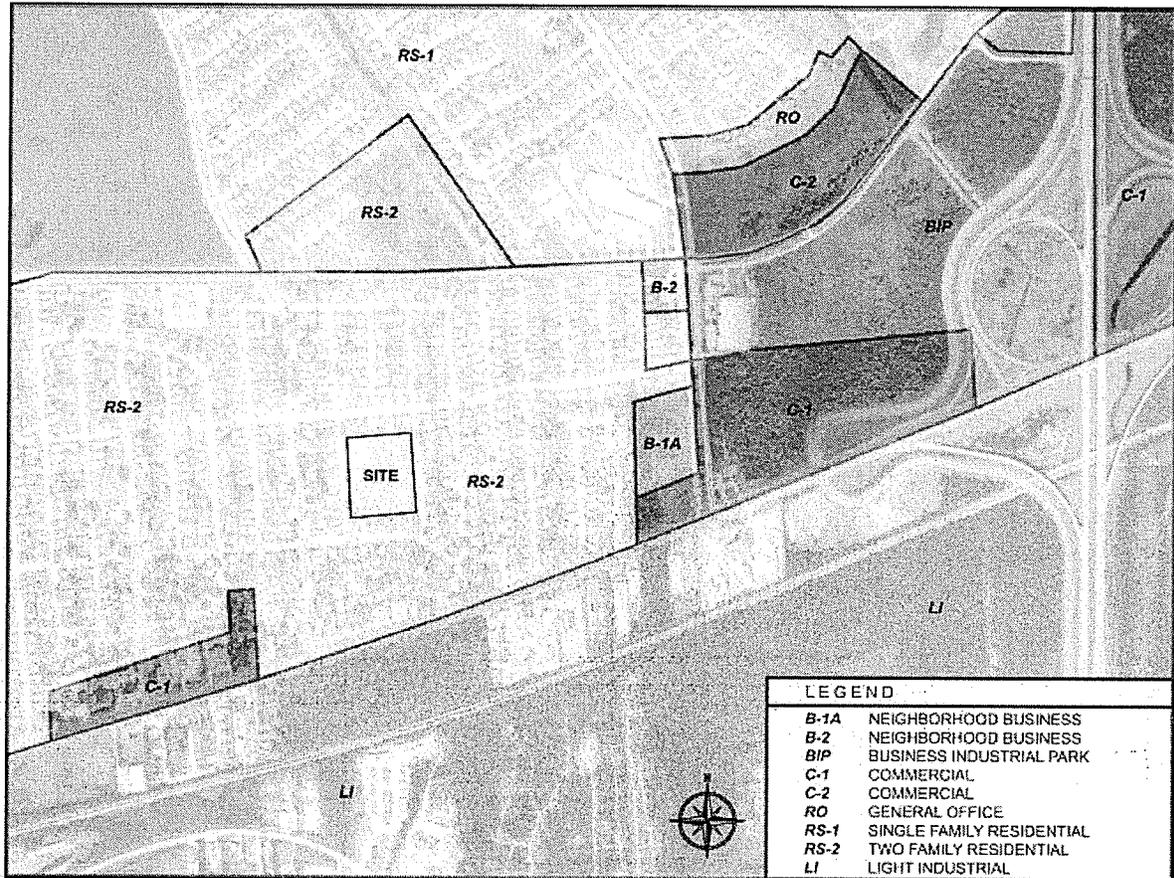
- Location:**
- 4801 Maid Marion Drive
New Orleans, La 70128
- Gross Building Footprint:**
- 107,950 SF
- Flood Zone:**
- (FIRM) Zone A4
- Base Flood Elevation:**
- RS-2 Conditional Use
- Zoning Classification:**
- RS-2 Conditional Use
- Setback Requirements:**
- 25' Setback on Maid Marion and Robin Hood Drive property lines (east and west).
- 50' Setback from property lines parallel to Pressburg Street and Prentiss Avenue.
- Parking Requirements:**
- 1 per each classroom, plus 1 per 10 seats in main auditorium or lecture room.
- 82 parking spots total, 4 of which are required to be accessible.
- Height Requirements:**
- Not to exceed 50'.

LEGEND

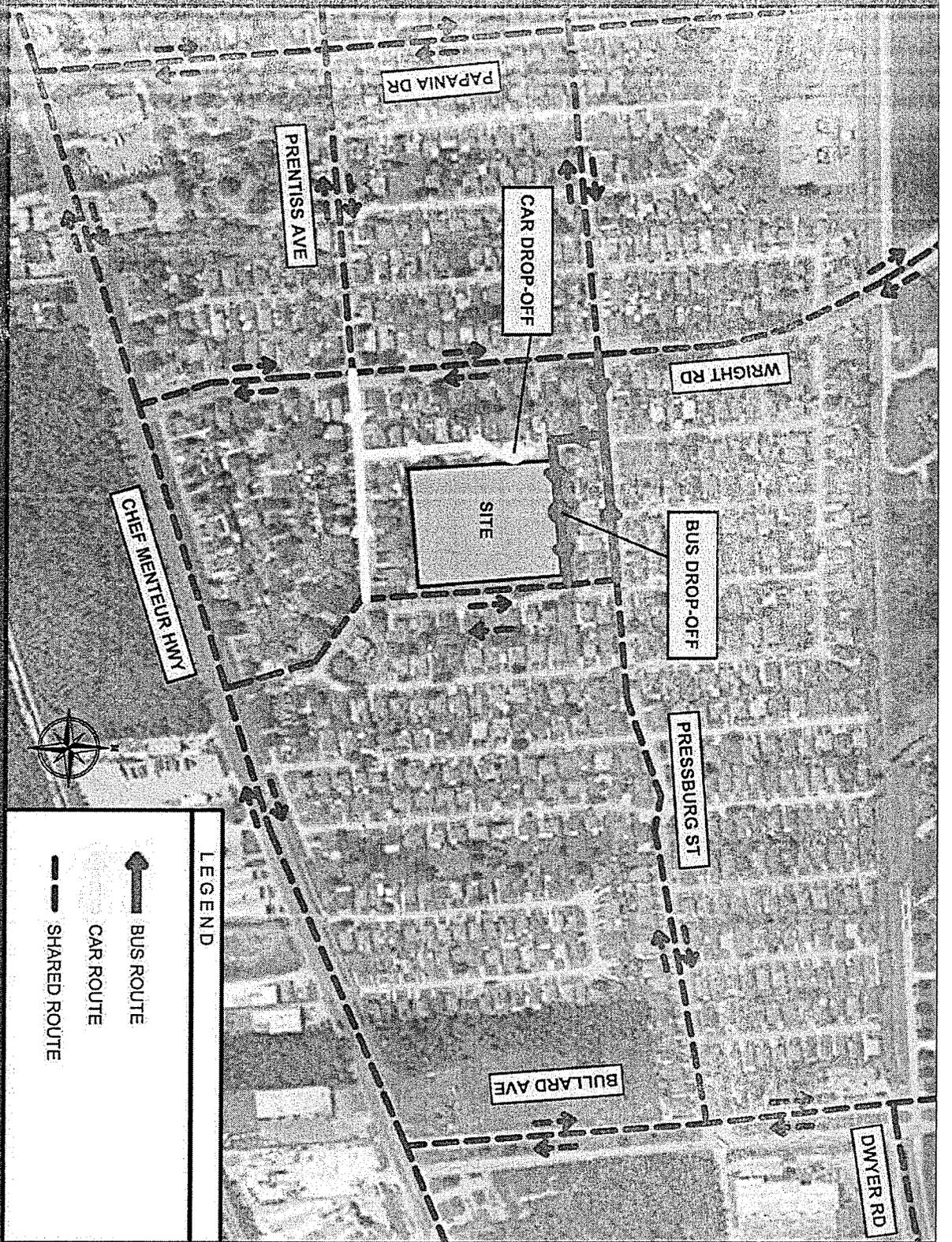
- ← BUS ROUTE
→ CAR ROUTE

Showing Car and Bus Traffic through Site

Vicinity Zoning



Showing zoning around project site



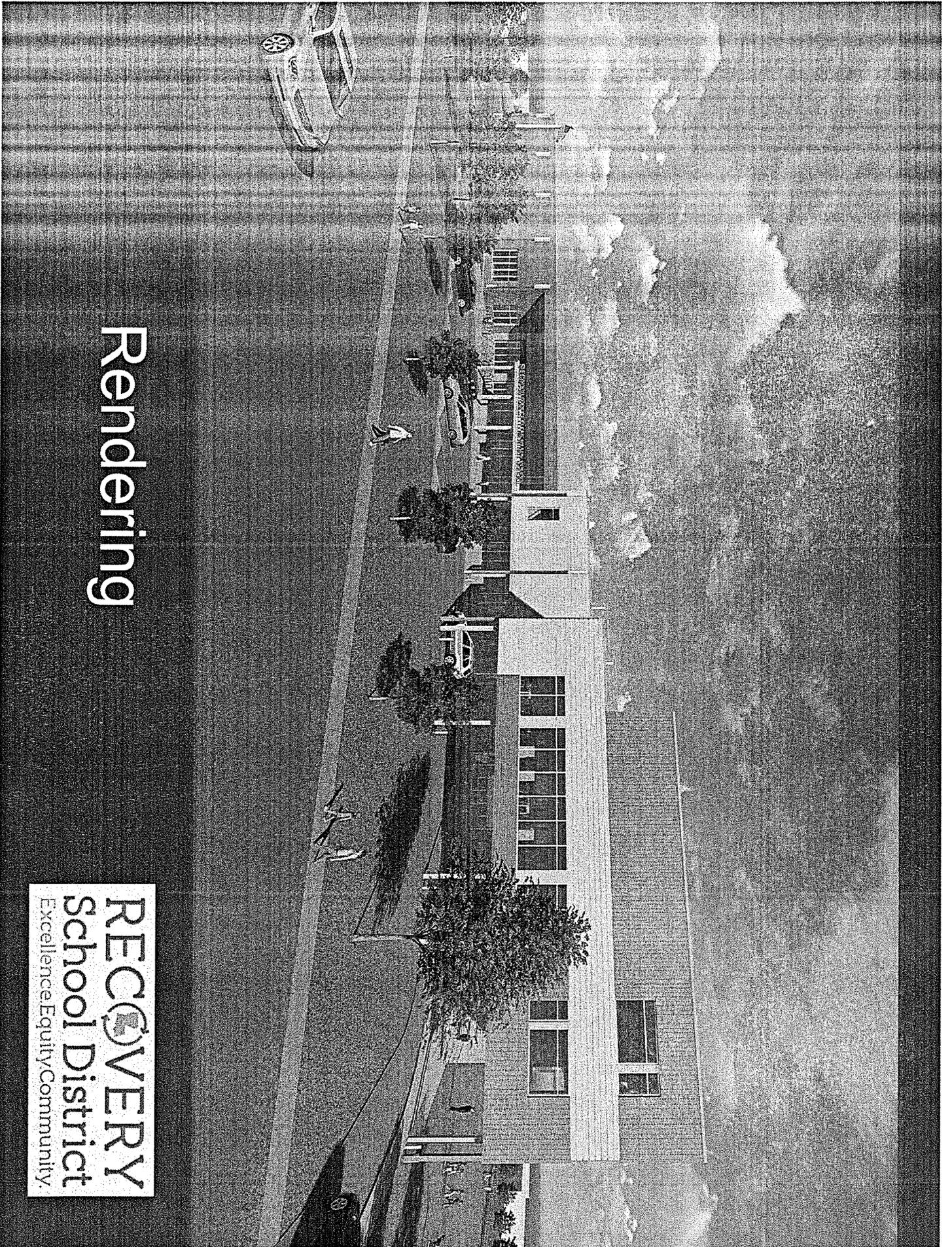
Possible Traffic Patterns

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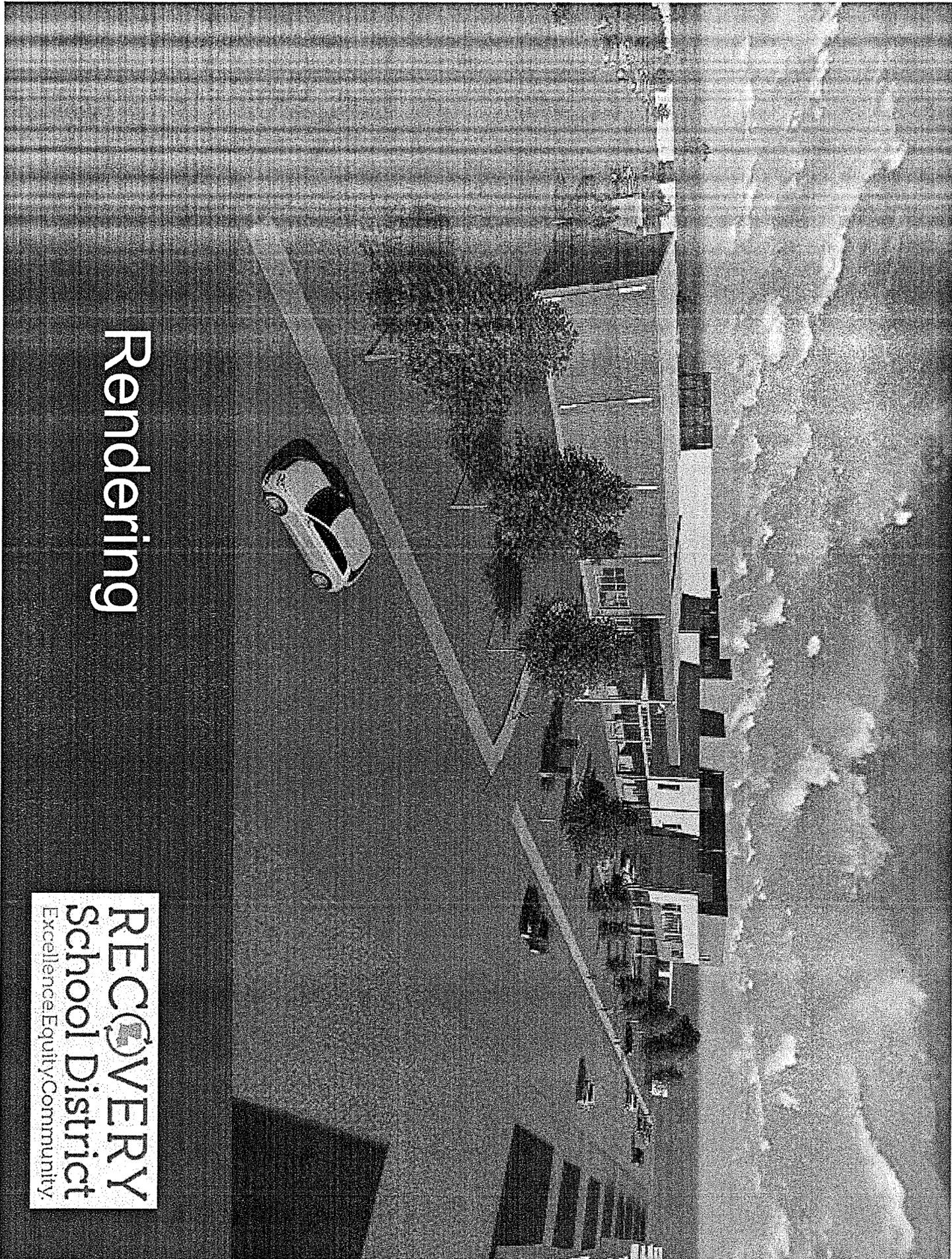
Drop off locations

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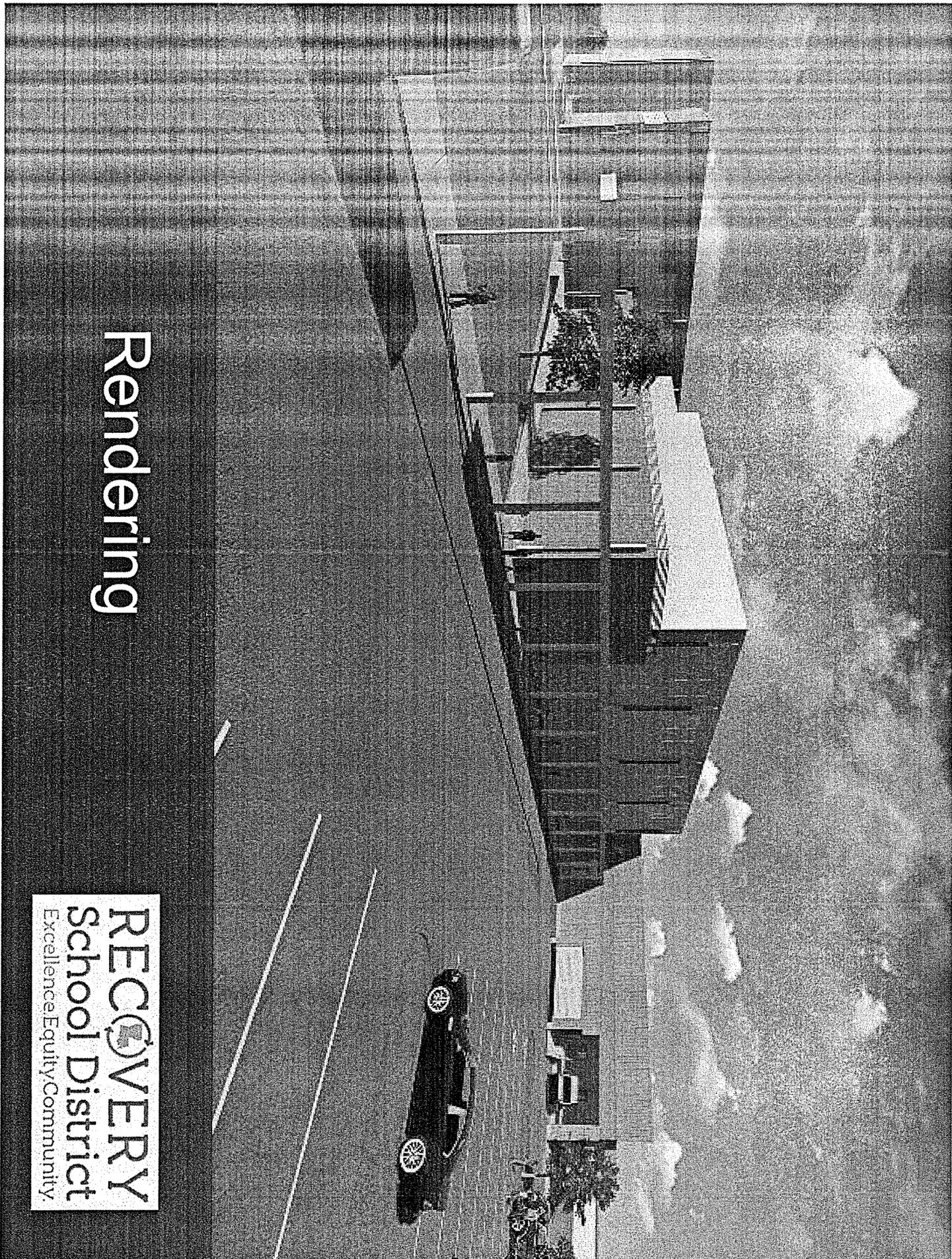
Rendering

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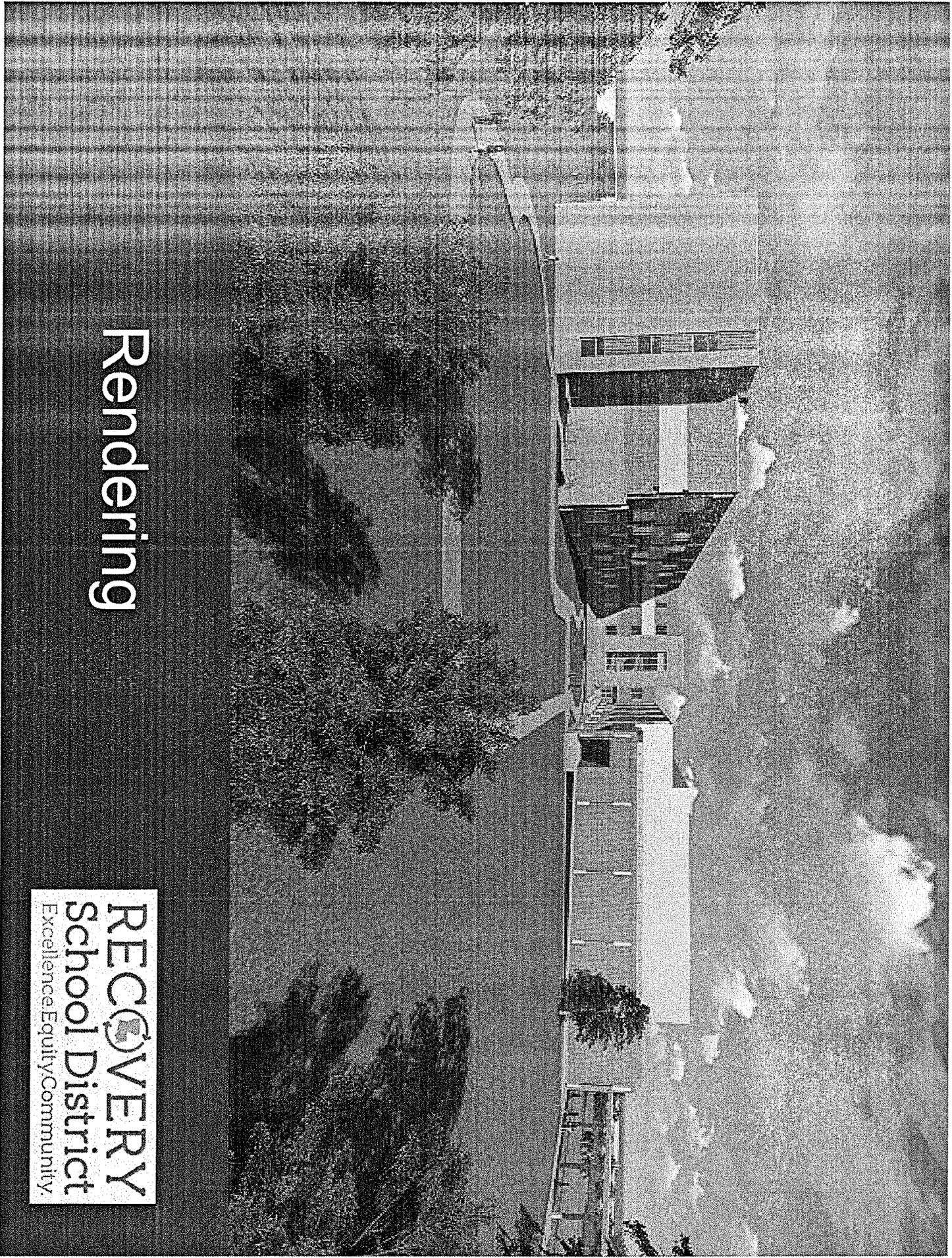
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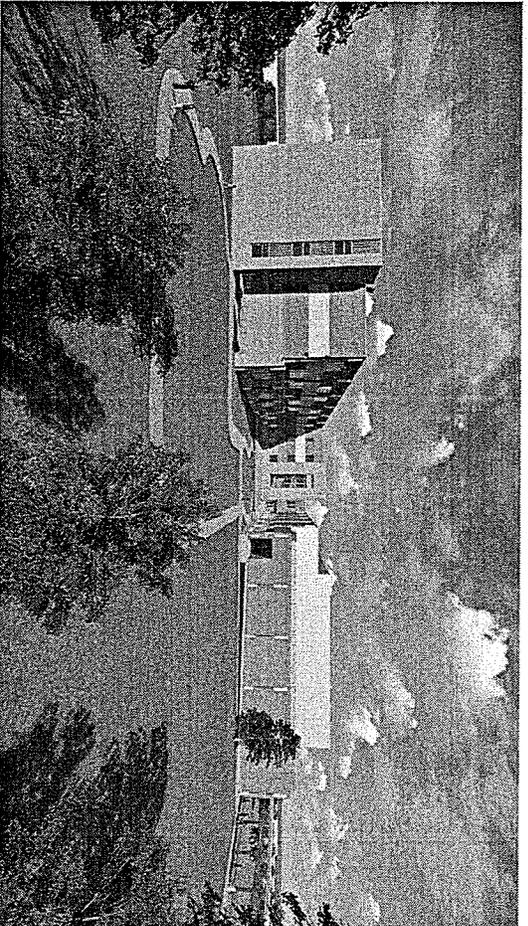
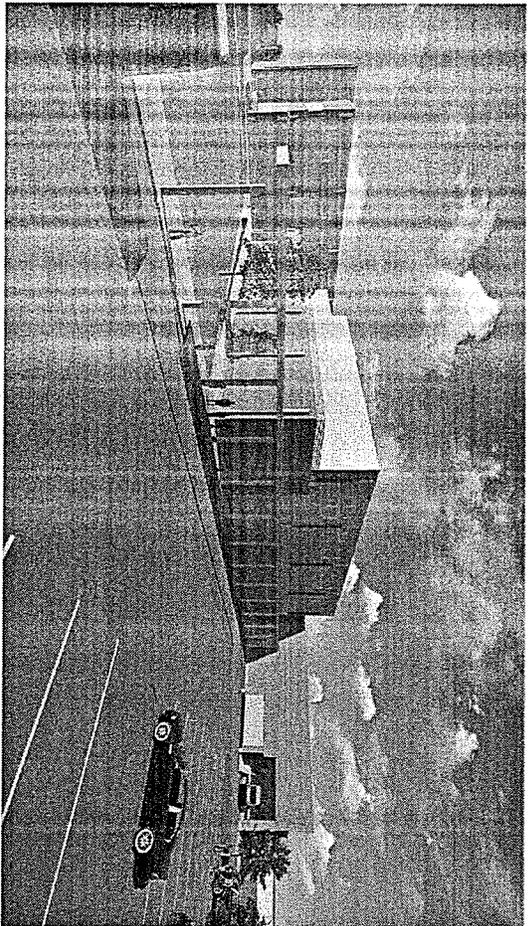
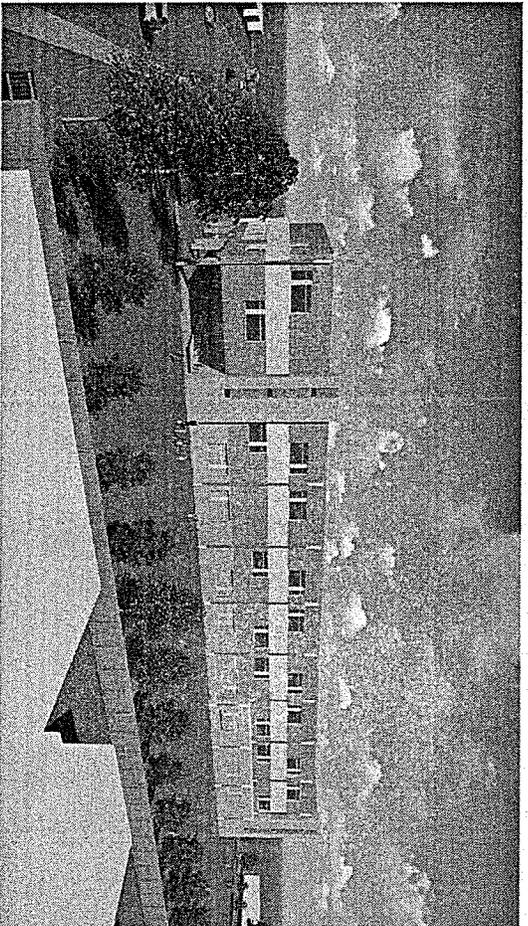
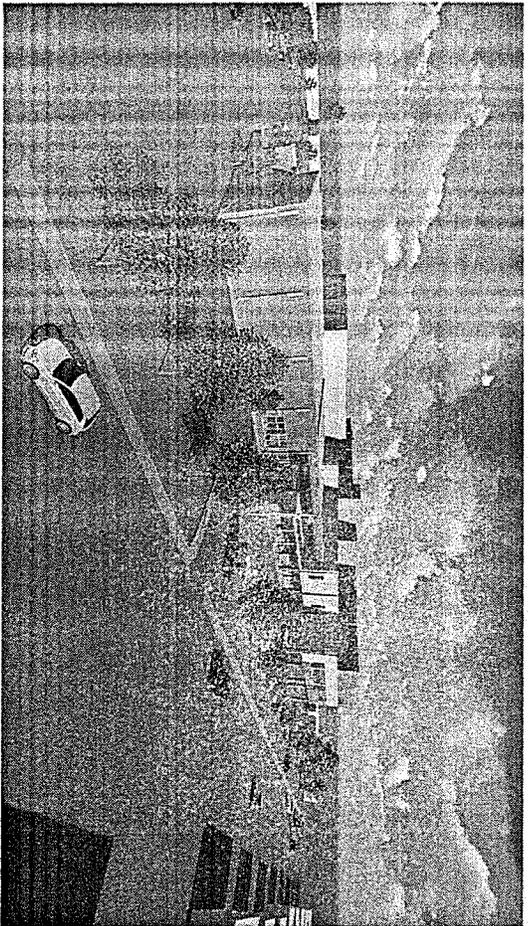
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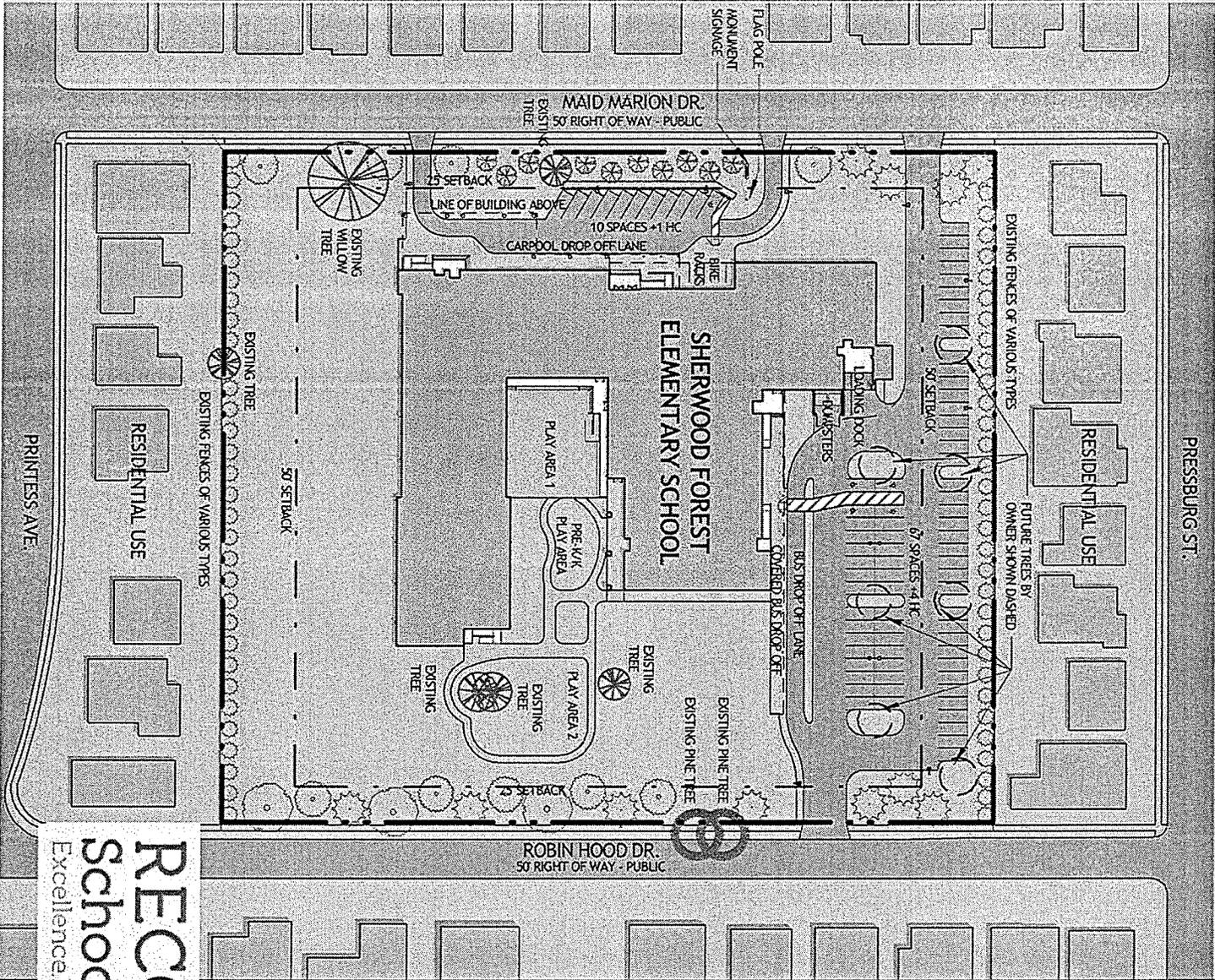
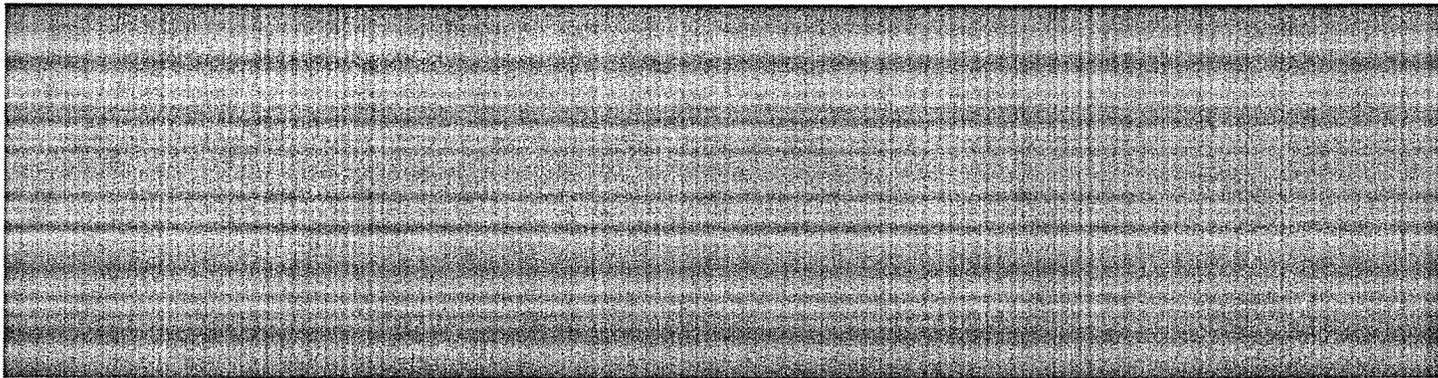
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