

**DELAWARE CLEAN WATER STATE REVOLVING LOAN FUND
FY 2010 GREEN PROJECT RESERVE PROJECT NO. 9
DECISION CRITERIA FOR BUSINESS CASE**

Project Name: Washington Street Flood Control and Stormwater Retrofit Project

Project Applicant: City of Seaford

Project Description: The proposed project involves the installation of neighborhood specific green infrastructure practices to improve water quality of stormwater runoff to the Nanticoke River. The following green infrastructure practices are proposed:

1. **Green Infrastructure in Transportation Right-of-Ways** – Existing traffic islands at the intersection of the Route 20 and Route 13A Intersection will be converted to bioretention areas. These islands are presently surrounded by curbing and do not capture runoff from the paved roadways. By installing curb openings, stormwater runoff from the pavement will be directed into the islands, which will be graded and landscaped. The bioretention areas will attenuate and treat and stormwater using a combination of sedimentation, infiltration, filtration and evapotranspiration. Through capture and attenuation of stormwater runoff, peak flows entering the storm drain system will be reduced, thereby helping to alleviate flooding in down-gradient residential neighborhoods, including Will-mar Village and East Seaford. The landscaping islands will provide added benefits such as creation of habitat and enhanced aesthetics. Refer to Exhibits 1 and 2

Centered along two of the most highly traveled thoroughfares in Western Sussex County, the project location makes it an ideal showcase for implementation of Green Infrastructure. The practices will be the first of their kind in the City of Seaford, and will promote interest and understanding regarding green technology and their practical use in the urban corridor.

The City of Seaford will partner with the Delaware Department of Transportation for this portion of the project.

2. **Municipal Green Streets Program** – Walker Street, North Street and Collins Street were identified as candidates for a municipal green streets program. Walker Street will be retrofitted with a bioswale and street trees to treat and manage stormwater. The bioswale will occupy a portion of the right-of-way that is presently paved, thereby reducing the overall impervious surface while attenuating and treating the remaining runoff. The fourth block of North Street will be retrofitted with a bioretention area for capture of runoff from the intersection of North St. and Eskridge Hwy. The bioretention area will occupy a corner of the adjacent Nutter Park. Collins Street will also be retrofitted with a bioretention area within neighboring Nutter Park. Refer to Exhibits 3, 4 and 5.
3. **Green Parking** – An existing large paved parking lot at Our Lady of Lourdes Catholic Church will be retrofitted with porous pavers, bioretention and trees, in an effort to mimic natural hydrology, reduce effective imperviousness and promote on-site recharge. The parking lot lies uphill from Washington Street which historically floods during large storm events. By maximizing recharge within the Church parking lot, off-site runoff will be reduced and hydraulics within the downstream storm drain systems will be improved, thereby helping to alleviate flooding of Washington Street. Refer to Exhibits 6 and 7.

The alleviation of flood conditions at Washington Street will also serve to reduce wet

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weather inflow into the sanitary sewer system, which enters through holes in manhole covers when the street is under water. As an added benefit, the parking lot trees will provide habitat and shade. Shade serves to reduce the heat-island effect and also to reduce the thermal effects of stormwater runoff on receiving waters by reducing asphalt temperature during summer months.

The City of Seaford will partner with the Catholic Diocese of Wilmington for this portion of the project.

Eligibility: The proposed project is eligible for CWSRF funding in accordance with Section 1.2-1 Green Streets, Section 1.2-2 Green Parking, Section 1.2-3 Street Trees and Section 1.2-6 Retrofit Programs, of the 2010 Green Project Reserve: Guidance for Determining Project Eligibility.

Justification for Business Case: A Business Case is needed to support the eligibility of certain stormwater conveyance pipes. Under Section 1.3-5, stormwater pipes are excluded except where needed for stormwater collection as may be justified under Section 4.4 of the Guidance. The proposed project includes multiple green infrastructure practices within a residential /commercial corridor that occupies several blocks. The green BMPs are designed with interconnecting pipes for stormwater collection and overflow during large events. In accordance with Section 4.0, the project meets the decision criteria for a Business Case as follows:

Section 4.4-1c Conventional Technology Used in a New Application – The proposed project will apply conventional green technologies in an urban environment. In 2008, under Secretary John A. Hughes, the Delaware Environmentally Sustainable Development Initiative was established as a voluntary, incentive based program for new development. This initiative, also known as the “Super Green Program” promoted the application of green technologies within the development community for new development, infill and redevelopment. The promotion of “Super Green” practices as retrofits to the urban environment is a new application both state-wide, and particularly in Western Sussex County.

Section 4.5-6 Educational Activities and Demonstration Projects – As the first of its kind for Seaford, the proposed project will present a full array of opportunities for public awareness and education. By partnering with DeIDOT and the Church, and due to the central location of the project, many will be exposed to the benefits of green technologies. The project will serve as a demonstration retrofit which The Center for Watershed Protection (CWP) describes as an excellent early action project for purposes of education, partnering with stakeholders, and community acceptance. In the Urban Subwatershed Restoration Manual Series No. 3, the CWP outlines multiple retrofit delivery methods in sequential order, with Demonstration Retrofitting as first order and essential to a long-term commitment by local agencies and the general public.

RT. 13A

ESKRIDGE HWY

CNC

PLANTING SCHEDULE

SYM.	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	NOTES
BC	--	BALD CYPRESS	TAXODIUM DISTICHUM	2.5-3" CAL.	SINGLE LEADER
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HB	--	HIGHBUSH BLUEBERRY	VACCINIUM CORYMBOSUM	30-36" HT.	FULL TO GROUND
RD	--	RED OSIER DOGWOOD	CORNUS SERICEA	18-24" HT.	FULL TO GROUND
VS	--	VIRGINIA SWEETSPIRE	ITEA VIRGINICA 'HENRY'S GARNET'	18-24" HT.	FULL TO GROUND
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PD	--	PURPLE DOME	ASTER NOVAE-ANGLIAE 'PURPLE DOME'	12-18" HT.	FULL TO GROUND
SW	--	NEW ENGLAND ASTER	VIRGINIA SPIDERWORT	12-18" HT.	FULL TO GROUND

--- SF MULCH SHREDDED HARDWOOD MULCH



LANDSCAPING GENERAL NOTES:

- PLANTS SHALL CONFORM TO CURRENT "AMERICAN STANDARDS FOR NURSERY STOCK" BY AMERICAN ASSOCIATION OF NURSERYMEN (AAN), PARTICULARLY WITH REGARDS TO SITE, GROWTH AND SIZE OF BALL AND DENSITY OF BRANCH STRUCTURE.
- CONTRACTOR IS TO ENSURE CONFORMANCE TO NATIONAL AND LOCAL BUILDING CODES AND ORDINANCES.
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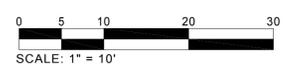
DATE	REVISIONS	NO.

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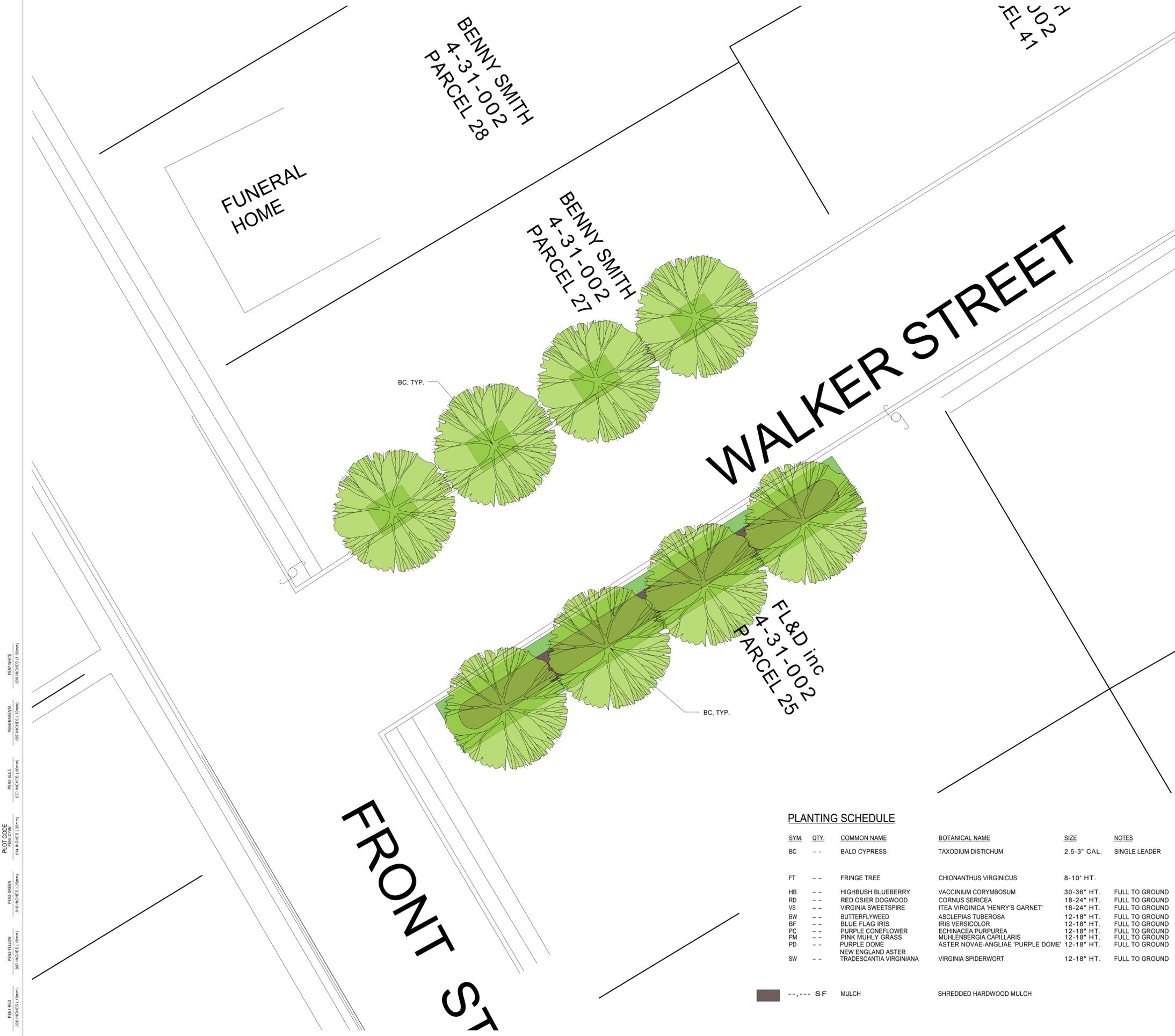
WASHINGTON STREET
 GREEN RETROFITS
 SEAFORD, DELAWARE

ROUTE 13 A

PLOT CODE
 PEN WHITE .020 INCHES (1.00mm)
 PEN MAGENTA .027 INCHES (1.00mm)
 PEN BLUE .020 INCHES (0.50mm)
 PEN GREEN .014 INCHES (.35mm)
 PEN YELLOW .027 INCHES (1.00mm)
 PEN RED .020 INCHES (0.50mm)



SCALE	1" = 10'	SHEET NO.	1
DESIGN BY	RLM		
DRAWN BY	RLM		
CHECKED BY			
GMB FILE	2006255		
DATE	APR 2009		



PLOT CODE PENN WHITE 020 INCHES (1.00mm) PENN BLUE 020 INCHES (0.50mm) PENN GREEN 010 INCHES (0.25mm) PENN YELLOW 007 INCHES (0.18mm) PINK RED 008 INCHES (0.20mm)

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WASHINGTON STREET
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WALKER STREET



SCALE	1" = 10'	SHEET NO.	5
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PLOT CODE
PENN WHITE 029 INCHES (10mm)
PENN BROWN 027 INCHES (10mm)
PENN BLUE 020 INCHES (8mm)
PENN YELLOW 007 INCHES (3mm)
PENN GREEN 010 INCHES (4mm)



DATE	REVISIONS	NO.

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 GEORGE, MILES & BUHR, LLC
 ARCHITECTS & ENGINEERS
 SALISBURY • BALTIMORE • LEWIS • SEAFORD • YORK
 206 WEST MAIN STREET
 SALISBURY, MARYLAND 21801
 410.742.3115 • FAX 410.648.5790
 www.gmbnet.com

WASHINGTON STREET
 GREEN RETROFITS
 SEAFORD, DELAWARE

NUTTER PARK B

SCALE	1" = 5'	SHEET NO.	4
DESIGN BY	RLM		
DRAWN BY	RLM		
CHECKED BY			
GMB FILE	2006255		
DATE	APR 2009		

DATE	REVISIONS	NO.

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WASHINGTON STREET
 GREEN RETROFITS
 SEAFORD, DELAWARE

CHURCH PARKING
 LOT A

SCALE	1" = 10'	SHEET NO.
DESIGN BY	RLM	6
DRAWN BY	RLM	
CHECKED BY		
GMB FILE	2006255	
DATE	APR 2009	

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PLANTING SCHEDULE

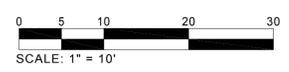
SYM.	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	NOTES
BC	--	BALD CYPRESS	TAXODIUM DISTICHUM	2.5-3" CAL.	SINGLE LEADER
FT	--	FRINGE TREE	CHIONANTHUS VIRGINICUS	8-10' HT.	
HB	--	HIGHBUSH BLUEBERRY	VACCINIUM CORYMBOSUM	30-36" HT.	FULL TO GROUND
RD	--	RED OSIER DOGWOOD	CORNUS SERICEA	18-24" HT.	FULL TO GROUND
VS	--	VIRGINIA SWEETSPICE	ITEA VIRGINICA 'HENRY'S GARNET'	18-24" HT.	FULL TO GROUND
BW	--	BUTTERFLYWEED	ASCLEPIAS TUBEROSA	12-18" HT.	FULL TO GROUND
BF	--	BLUE FLAG IRIS	IRIS VERSICOLOR	12-18" HT.	FULL TO GROUND
PC	--	PURPLE CONEFLOWER	ECHINACEA PURPUREA	12-18" HT.	FULL TO GROUND
PM	--	PINK MUHLY GRASS	MUHLENBERGIA CAPILLARIS	12-18" HT.	FULL TO GROUND
PD	--	PURPLE DOME	ASTER NOVAE-ANGLIAE 'PURPLE DOME'	12-18" HT.	FULL TO GROUND
SW	--	NEW ENGLAND ASTER	VIRGINIA SPIDERWORT	12-18" HT.	FULL TO GROUND

--- SF MULCH SHREDDED HARDWOOD MULCH



PARKING AREA
 OUR LADY OF LORD
 ROMAN CATHOLIC
 3-31-005
 PARCEL 35

PLOT CODE
 PEN WHITE 020 INCHES (1.00mm)
 PEN MAGENTA 027 INCHES (1.00mm)
 PEN BLUE 020 INCHES (0.50mm)
 PEN GREEN 014 INCHES (0.50mm)
 PEN YELLOW 007 INCHES (0.50mm)
 PEN RED 008 INCHES (0.50mm)



PLOT CODE
 PENTAWHITE .020 INCHES (1.00mm)
 PINKMINT .027 INCHES (1.70mm)
 PINKBLUE .020 INCHES (0.50mm)
 PINKGREEN .020 INCHES (1.25mm)
 PINKYELLOW .027 INCHES (1.00mm)
 PINKRED .020 INCHES (1.00mm)



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PLANTING SCHEDULE

SYM.	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	NOTES
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VS	--	VIRGINIA SWEETSPIRE	ITEA VIRGINICA 'HENRY'S GARNET'	18-24" HT.	FULL TO GROUND
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--- SF MULCH SHREDDED HARDWOOD MULCH



PRINTS ISSUED FOR:
DRAWINGS STAGE

DATE	
REVISIONS	
NO.	

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CHURCH PARKING
 LOT B

SCALE : 1" = 5'	SHEET NO.
DESIGN BY : RLM	7
DRAWN BY : RLM	
CHECKED BY :	
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