

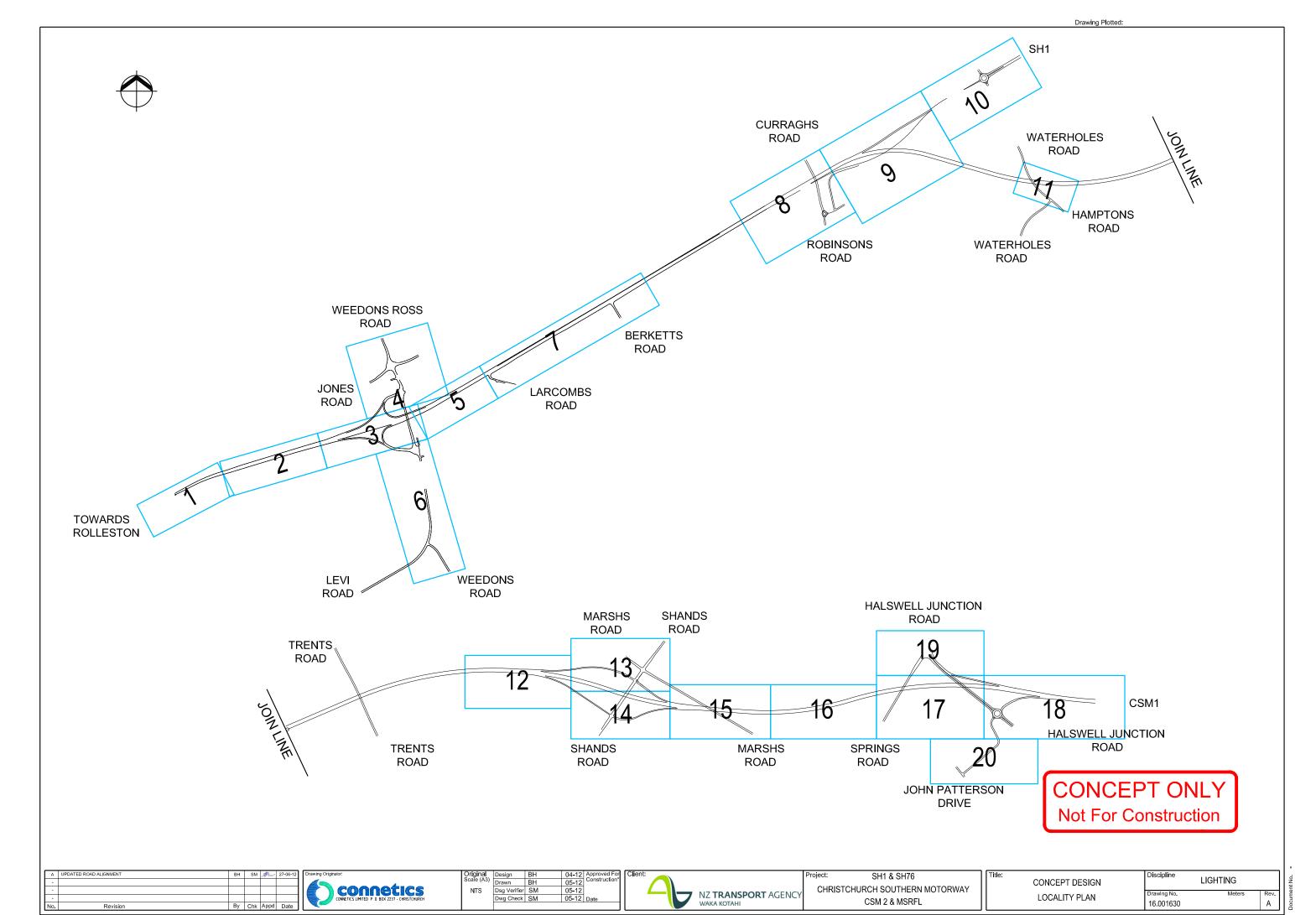
Christchurch Southern Motorway Stage 2 and Main South Road Four-Laning

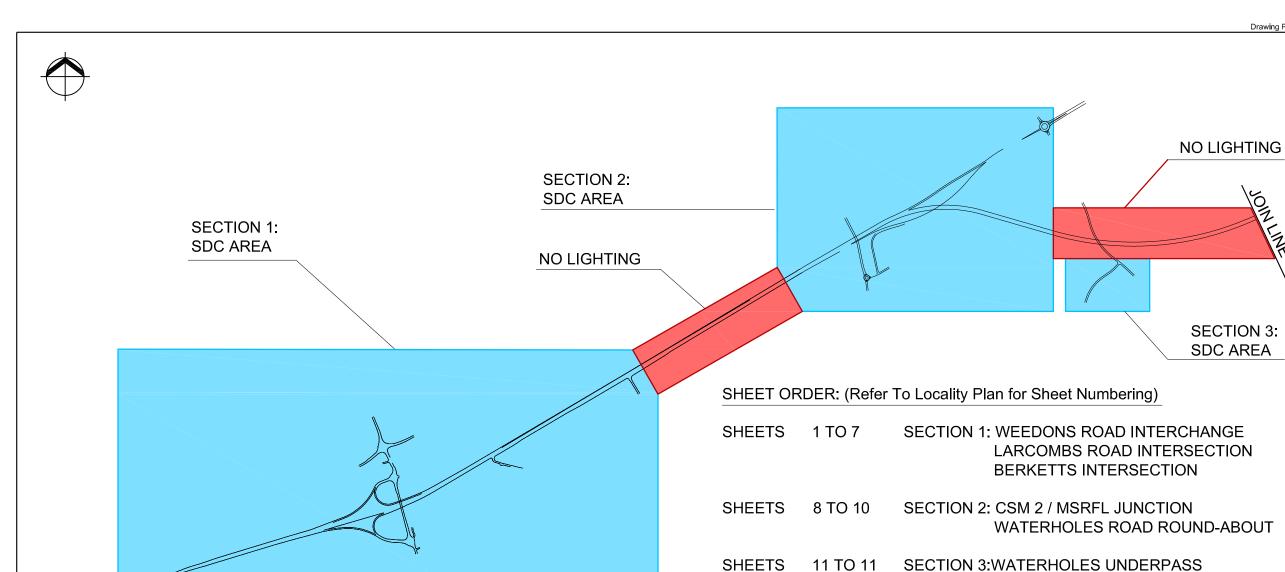




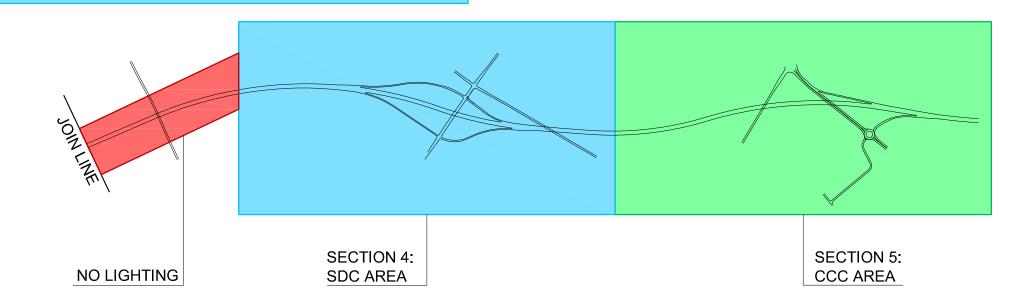
Road Lighting

CONCEPT DESIGN





SHEETS 12 TO 15 SECTION 4: SHANDS ROAD INTERCHANGE SHEETS 16 TO 20 SECTION 5: SPRINGS ROAD AND HALSWELL JUNCTION ROAD UNDERPASS JOHN PATERSON DRIVE LINK ROAD



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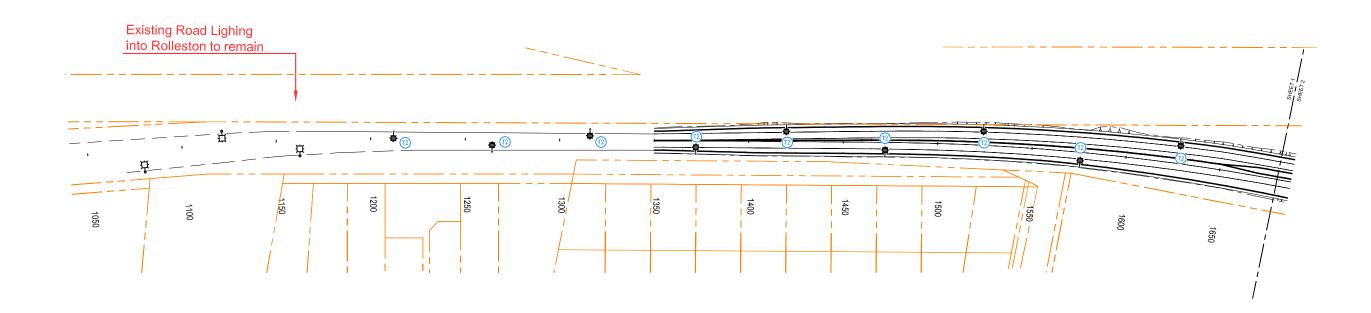




SH1 & SH76 CHRISTCHURCH SOUTHERN MOTORWAY CSM 2 & MSRFL

CONCEPT DESIGN	Discipline	LIGHTING	
SHEET ORDER	Drawing No.	Meters	
SHEET ONDER	16 001630		





中 Existing lighting column and luminaire to remain

Indicative location of new lighting column and luminaire

Luminaire Type 2 "Semi Cut-off"

Existing edge of seal

Property Boundary Lots

NOTES:

- 1. This drawing is a 'Concept' design only, showing indicative locations of new road lighting columns for proposed Christchurch Southern Motorway Stage 2 and Main South Road Four-laning project. Actual confirmed locations will need to be confirmed via an approved lighting design, in conjunction with road layout and traffic management devices.
- 2. Spacings and locations of lighting columns have been determined based on information provided, dated March 2012.

CONCEPT ONLY Not For Construction

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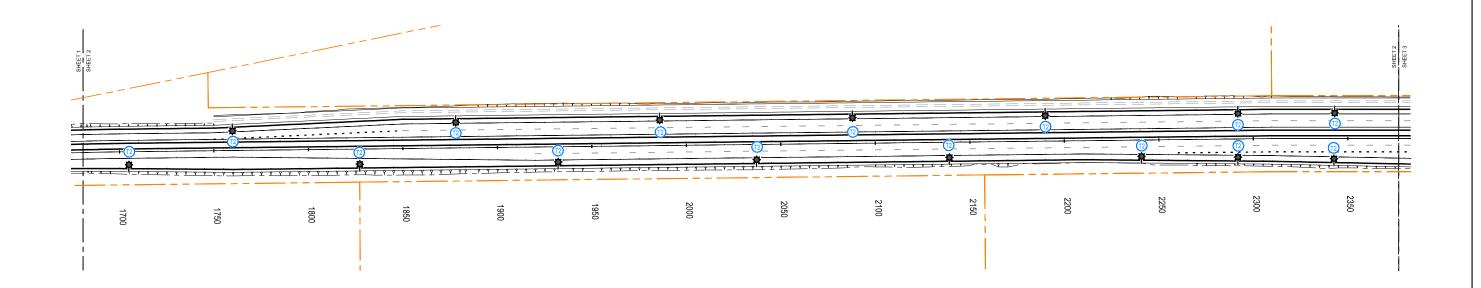


Project:	SH1 & SH76
CHRIST	CHURCH SOUTHERN MOTORWAY
	CSM2 & MSRFI

CONCEPT DESIGN	Discipline	LIGHTING
SHEET 01 OF 20	Drawing No.	Meter
SHEET OF OF 20	16 001630	1050m to 1

1050m to1650n





Indicative location of new lighting column and luminaire

12 Luminaire Type 2 "Semi Cut-off"

— Property Boundary Lots

NOTES:

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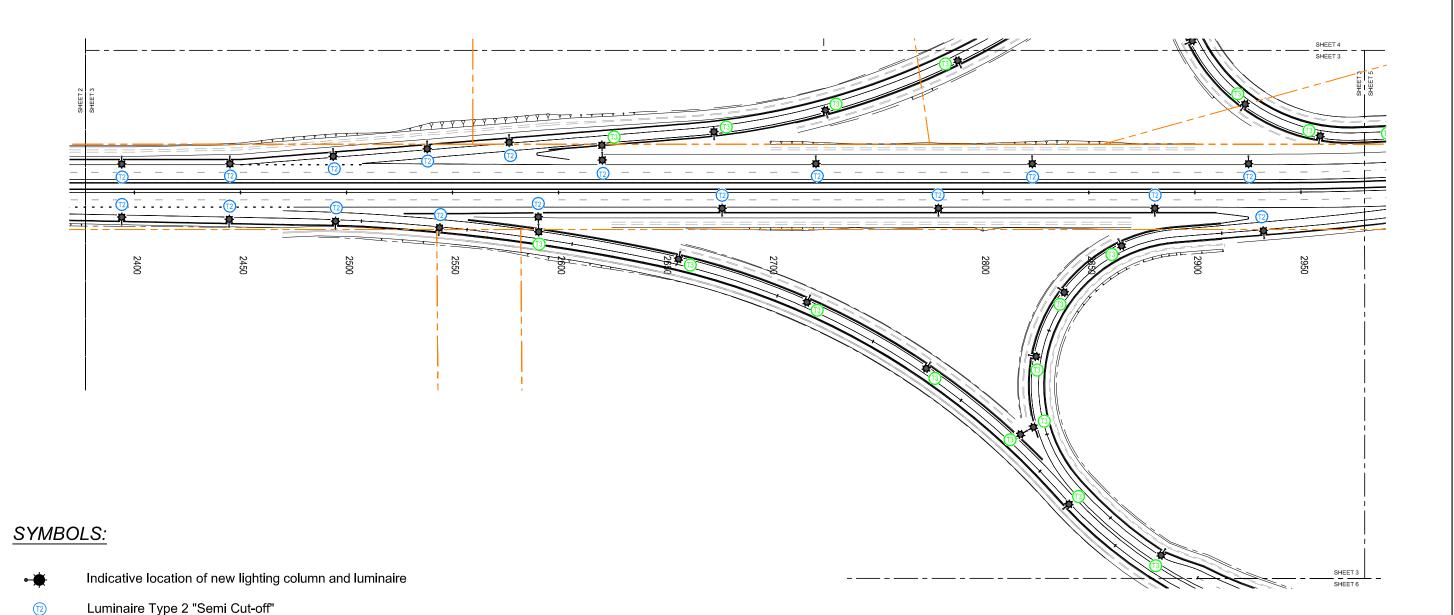
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	Dwg Check	SM	05-12	Date



Project:	SH1 & SH76
CHRIST	CHURCH SOUTHERN MOTORWAY
	CSM2 & MSRFL

CONCEPT DESIGN	Discipline	LIGHTING	
SHEET 02 OF 20	Drawing No.	Meters	Re
STILL FUZ OF 20	16.001630	1700m to 2350m	В





- This drawing is a 'Concept' design only, showing indicative locations of new road lighting columns
 for proposed Christchurch Southern Motorway Stage 2 and Main South Road Four-laning project.
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CONCEPT ONLY
Not For Construction

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Luminaire Type 3 "Full Cut-off"

Property Boundary Lots

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Date	

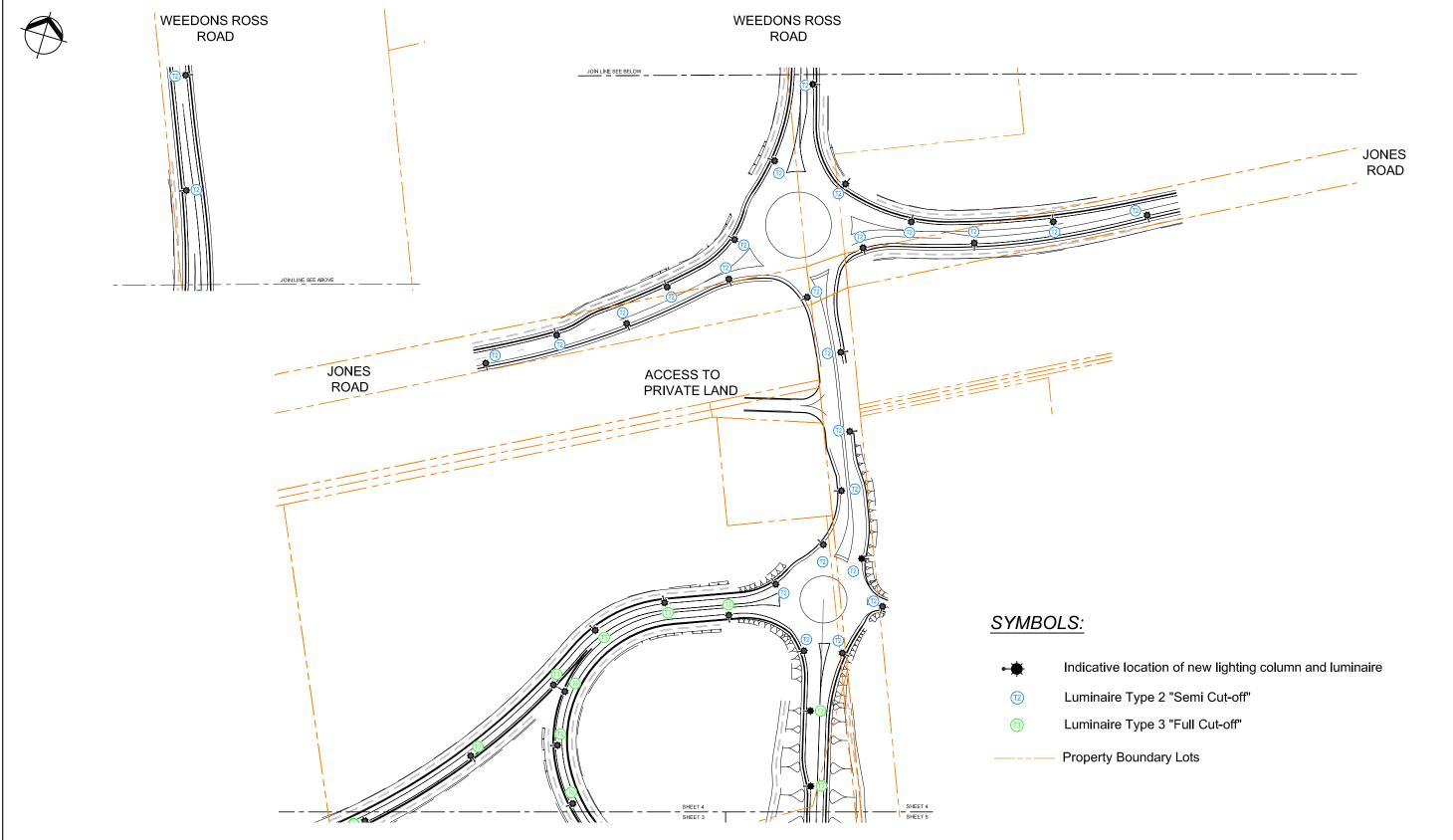
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Project:	SH1 & SH76				
CHRIS	TCHURCH SOUTHERN MOTORWAY				
CSM2 & MSRFI					

CONCEPT DESIGN	Discipline	LIGHTING
SHEET 03 OF 20	Drawing No.	Mete
311LL 1 03 O1 20	16 001630	2400m to 3

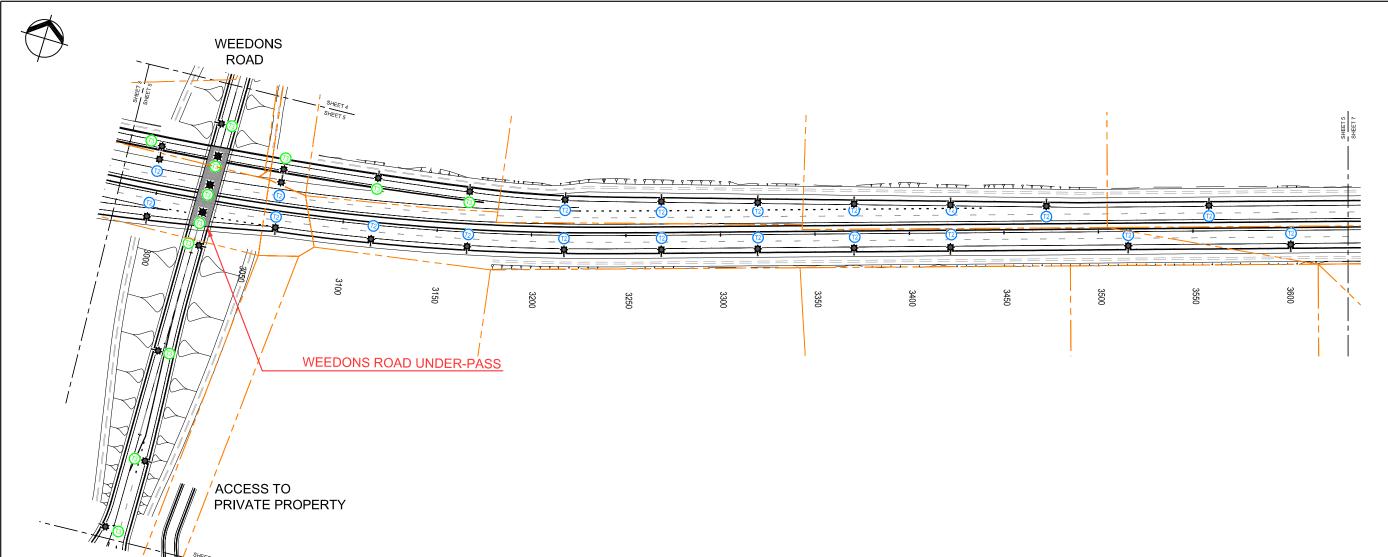
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Revision	By Chk Appd Date	1:2000 Dsg Verifier SM 05-12 Dwg Check SM 05-12 Date	NZ TRANSPORT AG WAKA KOTAHI	CHRISTCHURCH SOUTHERN MOTORWAY CSM2 & MSRFL	SHEET 04 OF 20	Drawing No. 16.001630	Meters Rev.



WEEDONS ROAD

Indicative location of new lighting column and luminaire

Indicative location of new surface mounted underpass luminaire

Duminaire Type 2 "Semi Cut-off"

13 Luminaire Type 3 "Full Cut-off"

--- Property Boundary Lots

NOTES:

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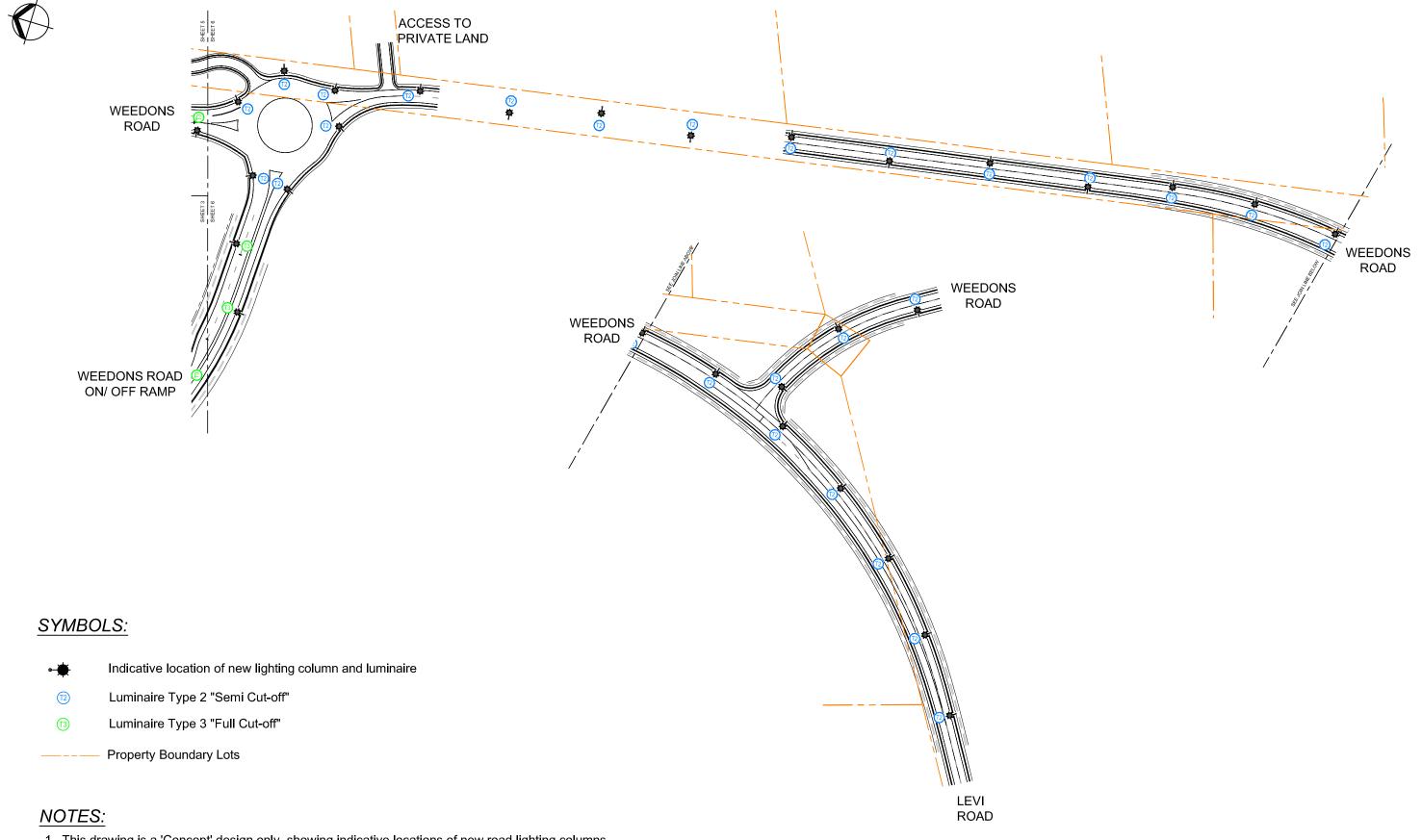


Project:	SH1 & SH76				
CHRIS [®]	TCHURCH SOUTHERN MOTORWAY				
CSM2 & MSRFI					

CONCEPT DESIGN	
SHEET 05 OF 20	

Discipline	LIGHTING	
Drawing No.	Meters	Rev.
16.001630	3000m to 3650m	В





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CONCEPT ONLY
Not For Construction

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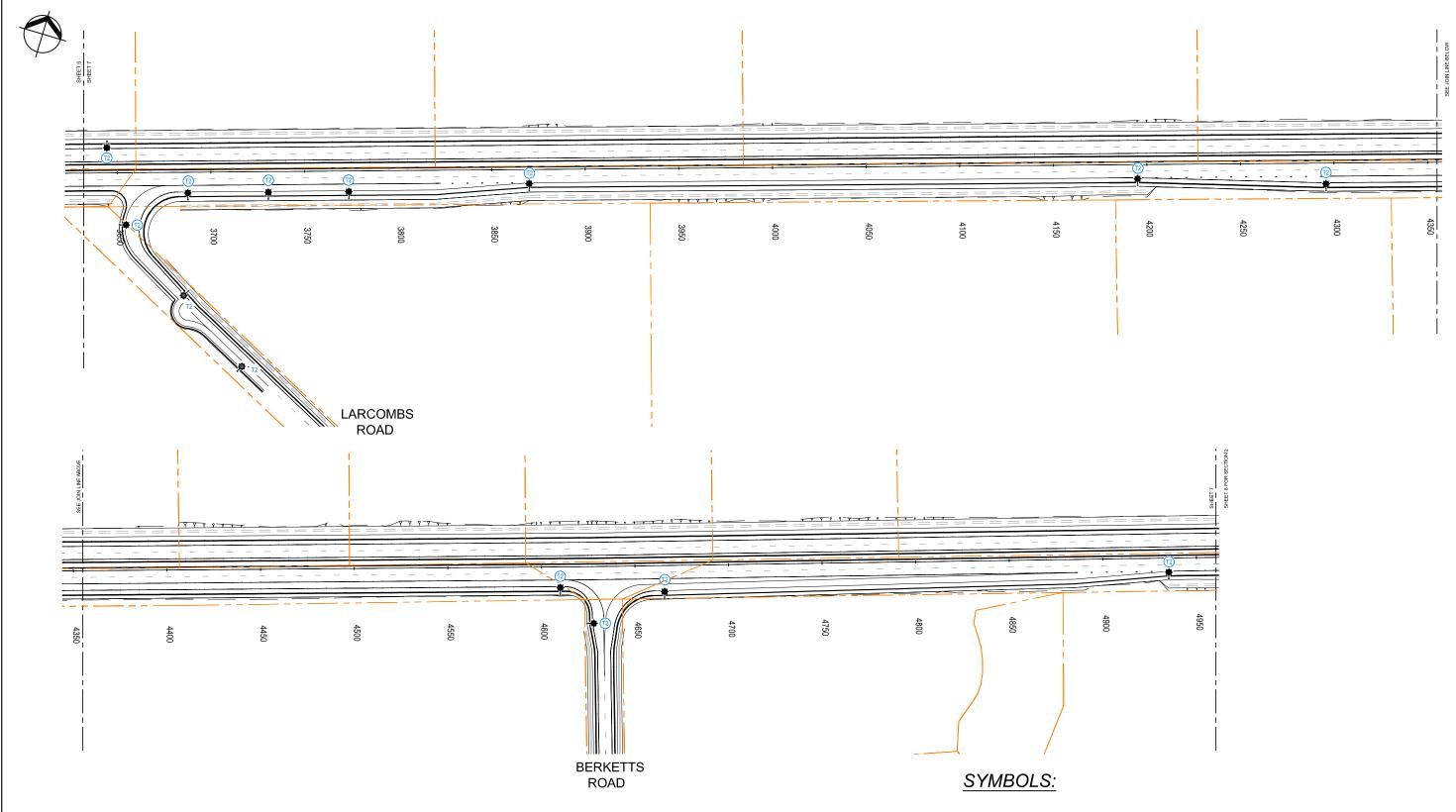
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Client:		Ρ
_	NZ TRANSPORT AGENCY WAKA KOTAHI	

oject: SH1 & SH76
CHRISTCHURCH SOUTHERN MOTORWAY
CSM2 & MSRFL

CONCEPT DESIGN	
SHEET 06 OF 20	

Discipline	LIGHTING	
Drawing No.	Meters	Rev.
16 001630	N/A	В



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Indicative location of new lighting column and luminaire

12 Luminaire Type 2 "Semi Cut-off"

--- Property Boundary Lots

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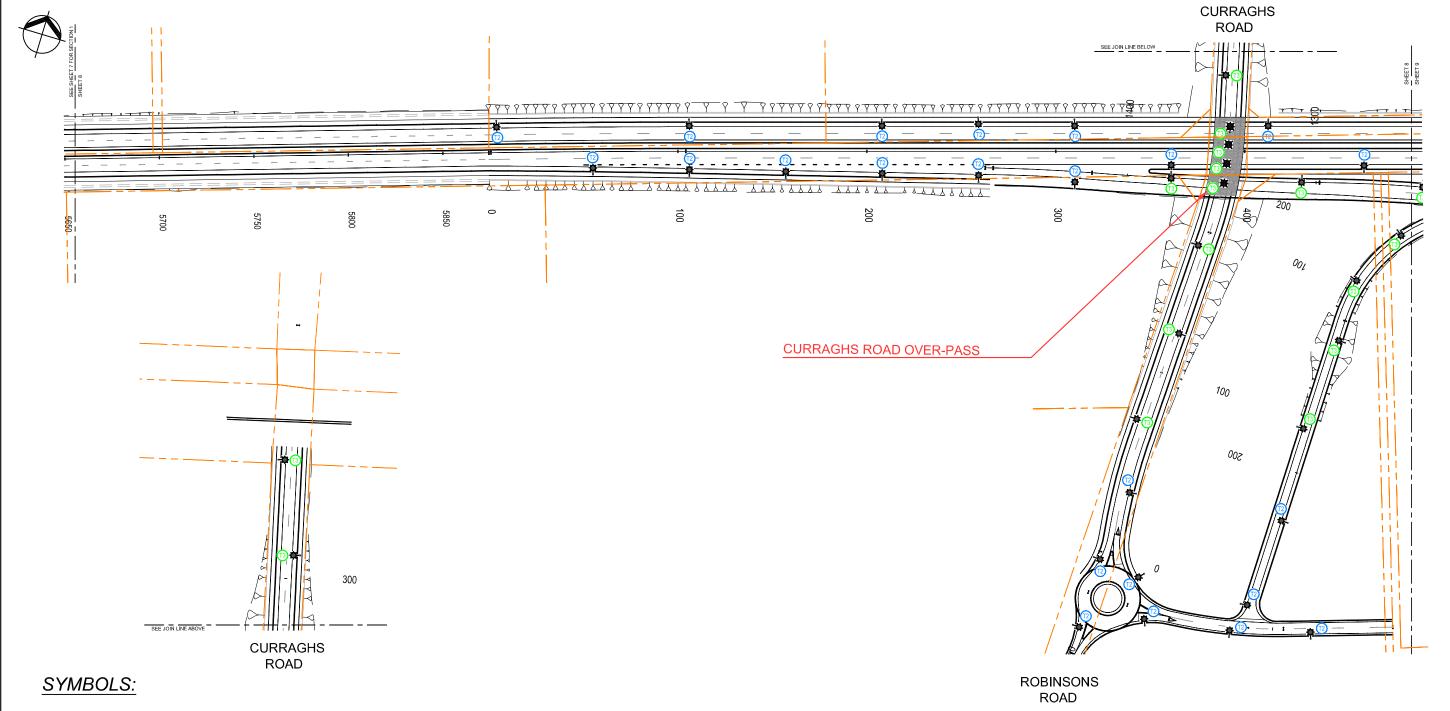


roject:	SH1 & SH76	
CHRIST	CHURCH SOUTHERN MOTORWAY	
	CSM2 & MSRFL	

CONCEPT DESIGN	
SHEET 07 OF 20	

Discipline	LIGHTING	
Drawing No.	Meters	Rev.
16 001630	3700M to 4800m	В





Indicative location of new lighting column and luminaire

Indicative location of new surface mounted under-pass luminaire

Luminaire Type 2 "Semi Cut-off"

13 Luminaire Type 3 "Full Cut-off"

Property Boundary Lots

NOTES:

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Client:	
	NZ TRANSPORT AGENCY WAKA KOTAHI

oject: SH1 & SH76

CHRISTCHURCH SOUTHERN MOTORWAY

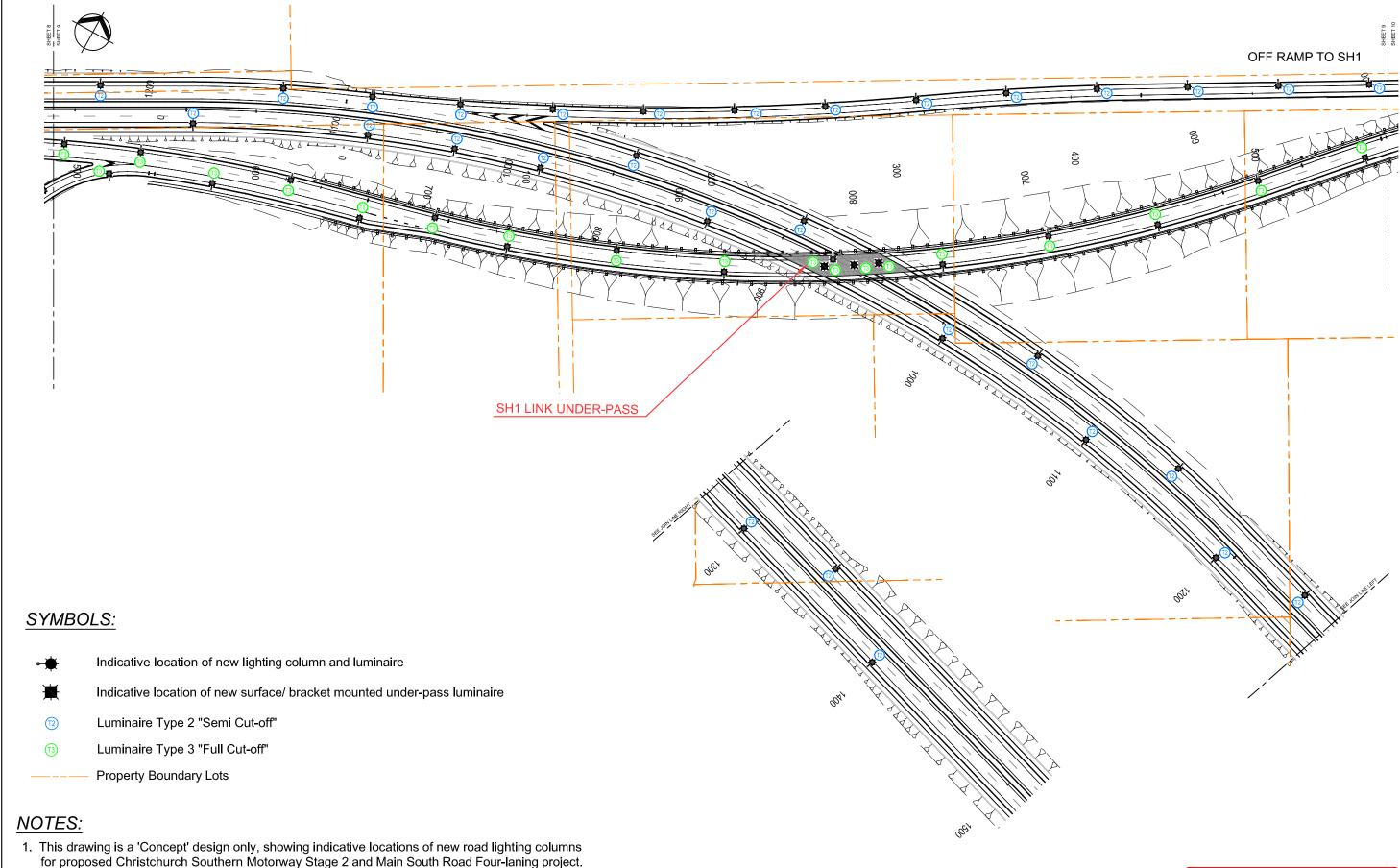
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SHEET 08 OF 20

CONCEPT ONLY

Not For Construction



- for proposed Christchurch Southern Motorway Stage 2 and Main South Road Four-laning project. Actual confirmed locations will need to be confirmed via an approved lighting design, in conjunction with road layout and traffic management devices.
- 2. Spacings and locations of lighting columns have been determined based on information provided, dated March 2012.

CONCEPT ONLY Not For Construction

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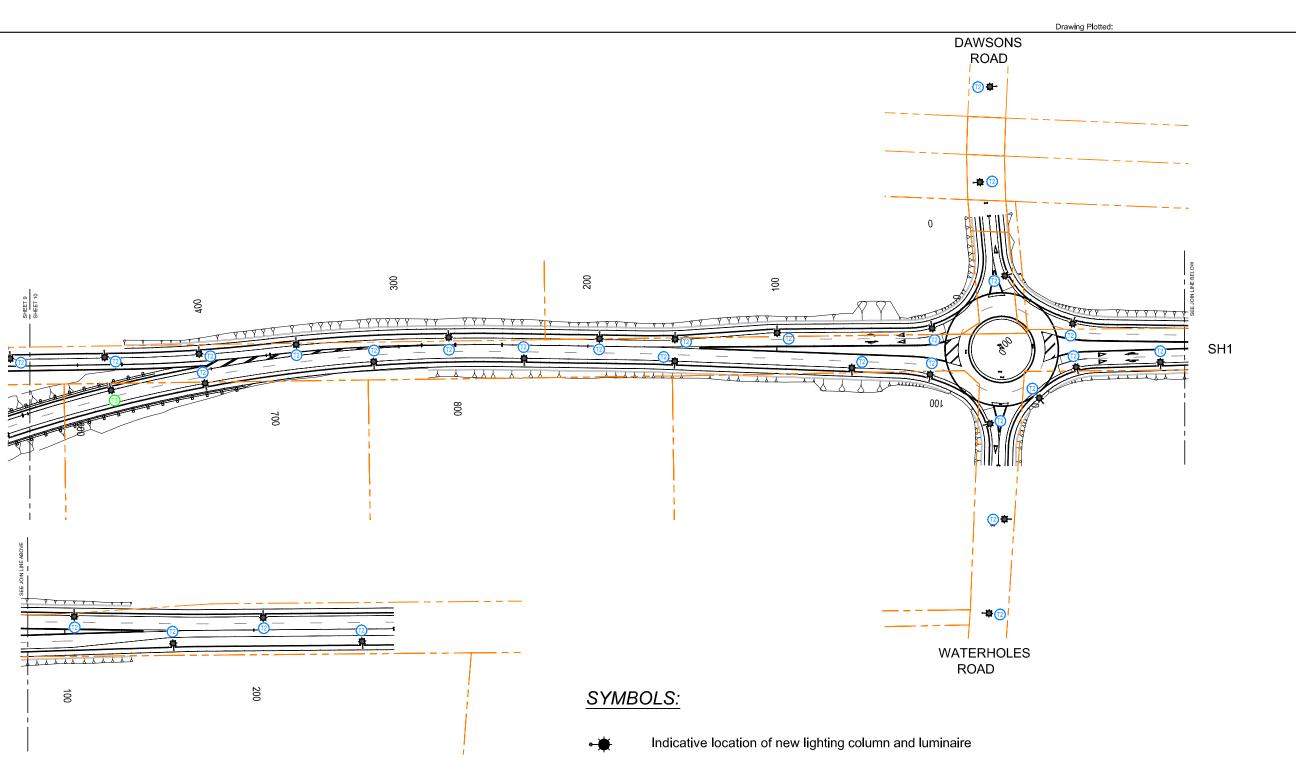
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SH1 & SH76 CHRISTCHURCH SOUTHERN MOTORWAY CSM2 & MSRFL

CONCEPT DESIGN	
SHEET 09 OF 20	

Discipline	LIGHTING	
Drawing No.	Meters	Rev.
16 001630	500m to 1500m	В

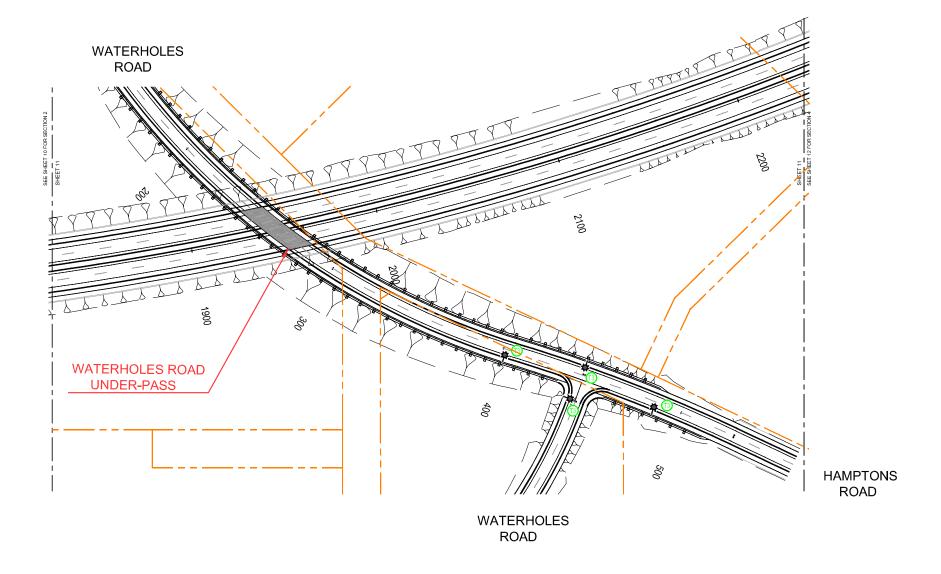


- Luminaire Type 2 "Semi Cut-off"
- 13 Luminaire Type 3 "Full Cut-off"
- Property Boundary Lots

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	CONNETICS LIMITED P. O. BOX 2237 - CHRISTCHURCH	Dwg Check SM 05-12 Date	NZ TRANSPORT AGENCY	CSM2 & MSRFL	SHEET 10 OF 20	to course to 5
No. Revision By Chk Appd [ate		WAKA KOTAHI	CONIZ & WORFL		16.001630 400m to 0m B





Indicative location of new lighting column and luminaire

13 Luminaire Type 3 "Full Cut-off"

---- Property Boundary Lots

NOTES:

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CONCEPT ONLY
Not For Construction

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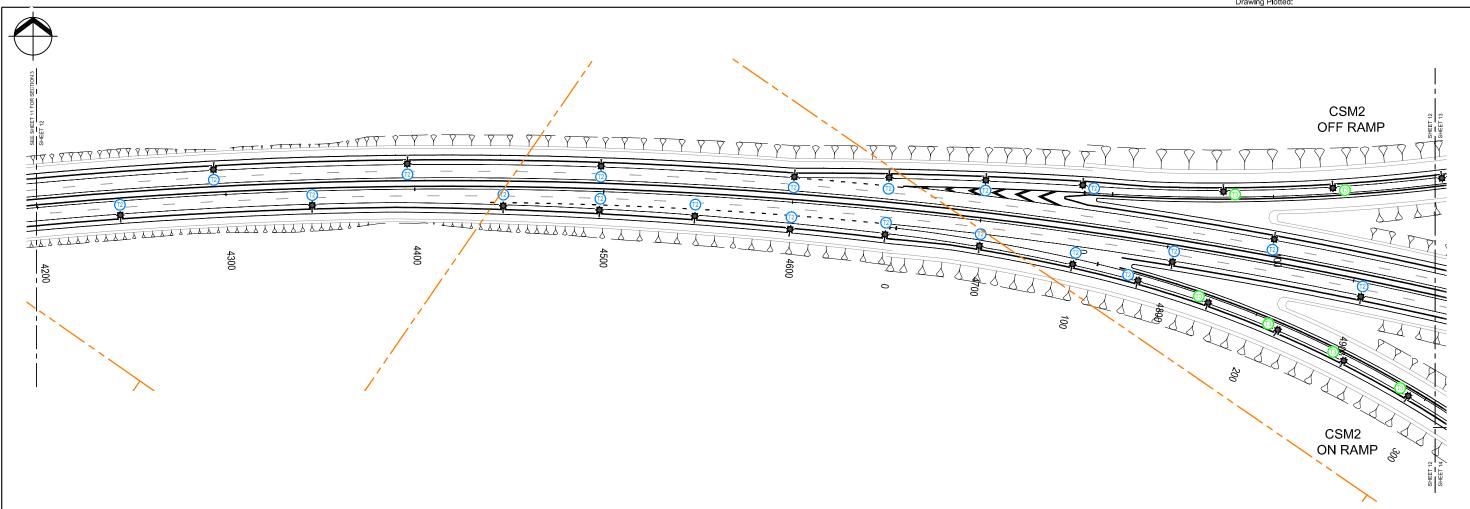
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roject: SH1 7 SH76
CHRISTCHURCH SOUTHERN MOTORWAY
CSM2 & MSRFL

CONCEPT DESIGN	
SHEET 11 OF 20	

| Drawing No. | Meters | Rev. | 16.001630 | 1900m to 2200m | B



Indicative location of new lighting column and luminaire

Luminaire Type 2 "Semi Cut-off" T2

Luminaire Type 3 "Full Cut-off"

Property Boundary Lots

NOTES:

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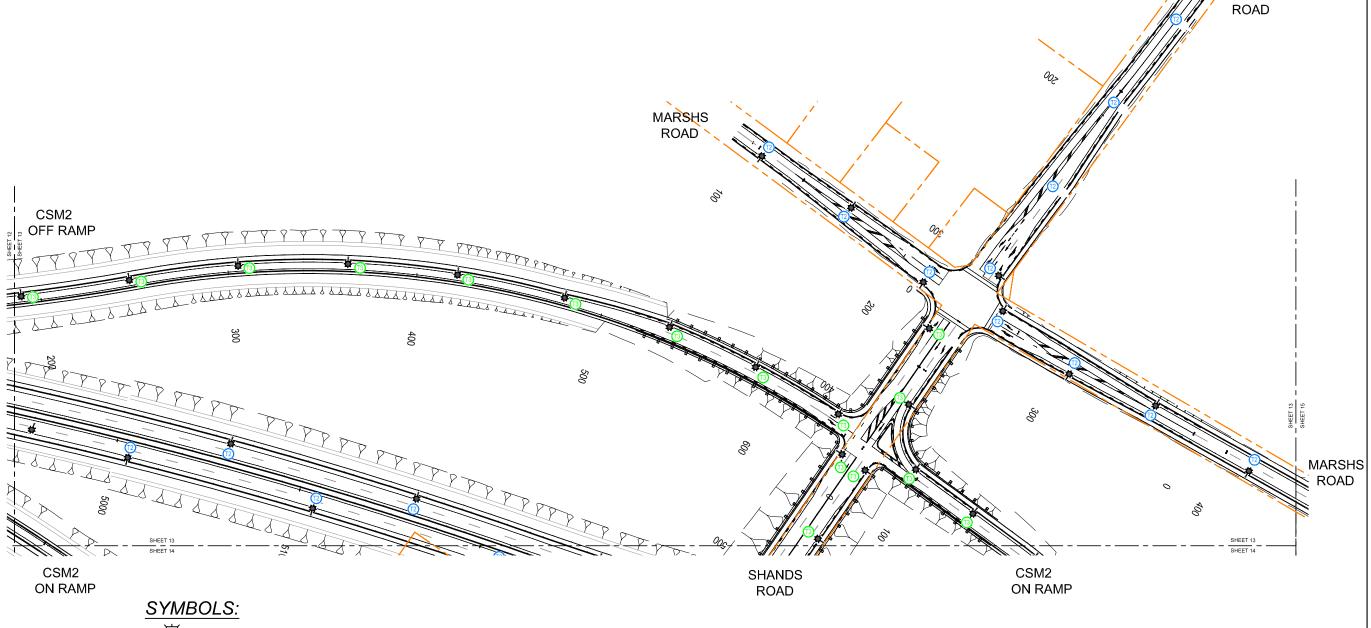


Project:	SH1 & SH76
CHRIS [®]	TCHURCH SOUTHERN MOTORWAY
	CSM2 & MSRFI

CONCEPT DESIGN	Discipline
SHEET 12 OF 20	Drawing No.
311LL1 12 01 20	16 001620

SHANDS





Existing column / pole, outreach arm and luminaire to remain

• ★ New luminaire on existing column

Indicative location of new lighting column and luminaire

Luminaire Type 2 "Semi Cut-off"

13 Luminaire Type 3 "Full Cut-off"

Property Boundary Lots

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oject: SH1 & SH76

CHRISTCHURCH SOUTHERN MOTORWAY

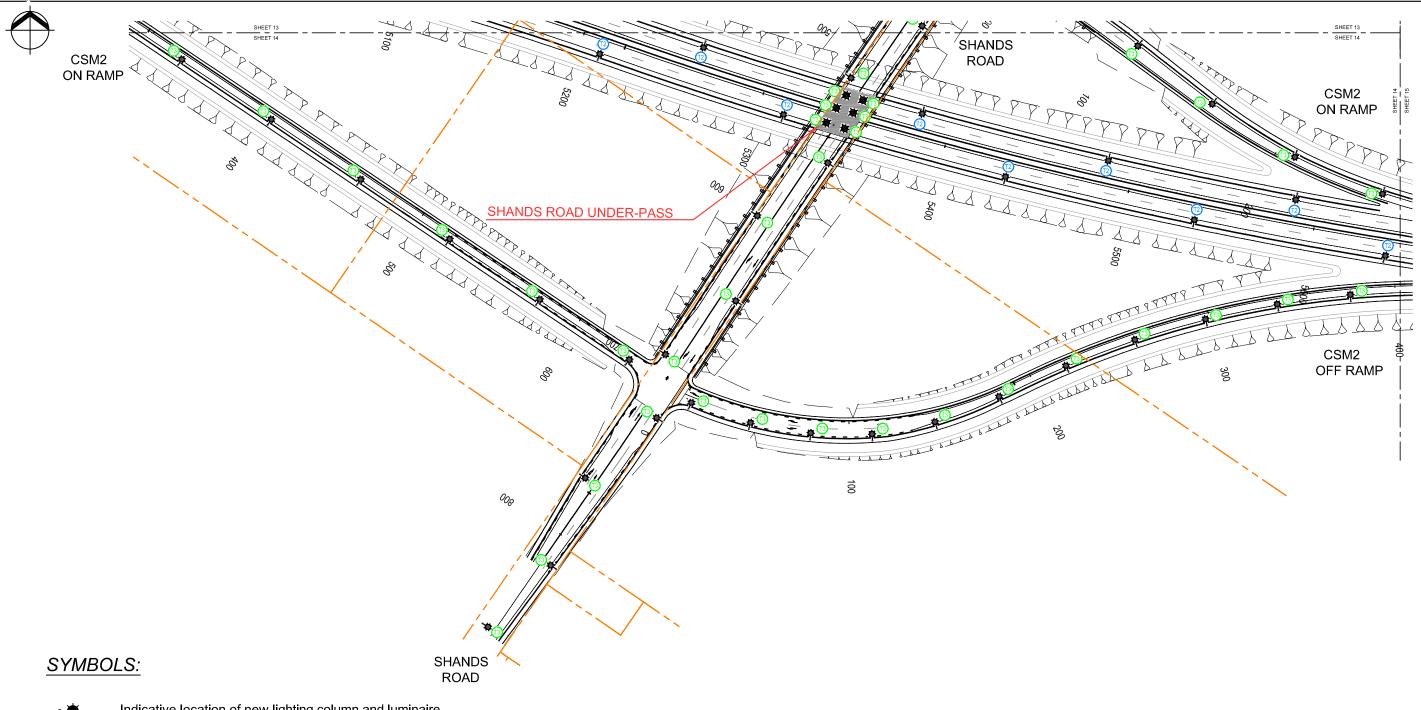
CSM2 & MSRFL

CONCEPT DESIGN SHEET 13 OF 20

CONCEPT ONLY

Not For Construction

DO NOT SCALE



Indicative location of new lighting column and luminaire

Indicative location of new surface mounted under-pass luminaire

Luminaire Type 2 "Semi Cut-off"

Luminaire Type 3 "Full Cut-off"

Property Boundary Lots

NOTES:

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CONCEPT ONLY Not For Construction

П	Α	LUMINAIRE TYPES ADDED	ВН	SM	SM	16-05-12
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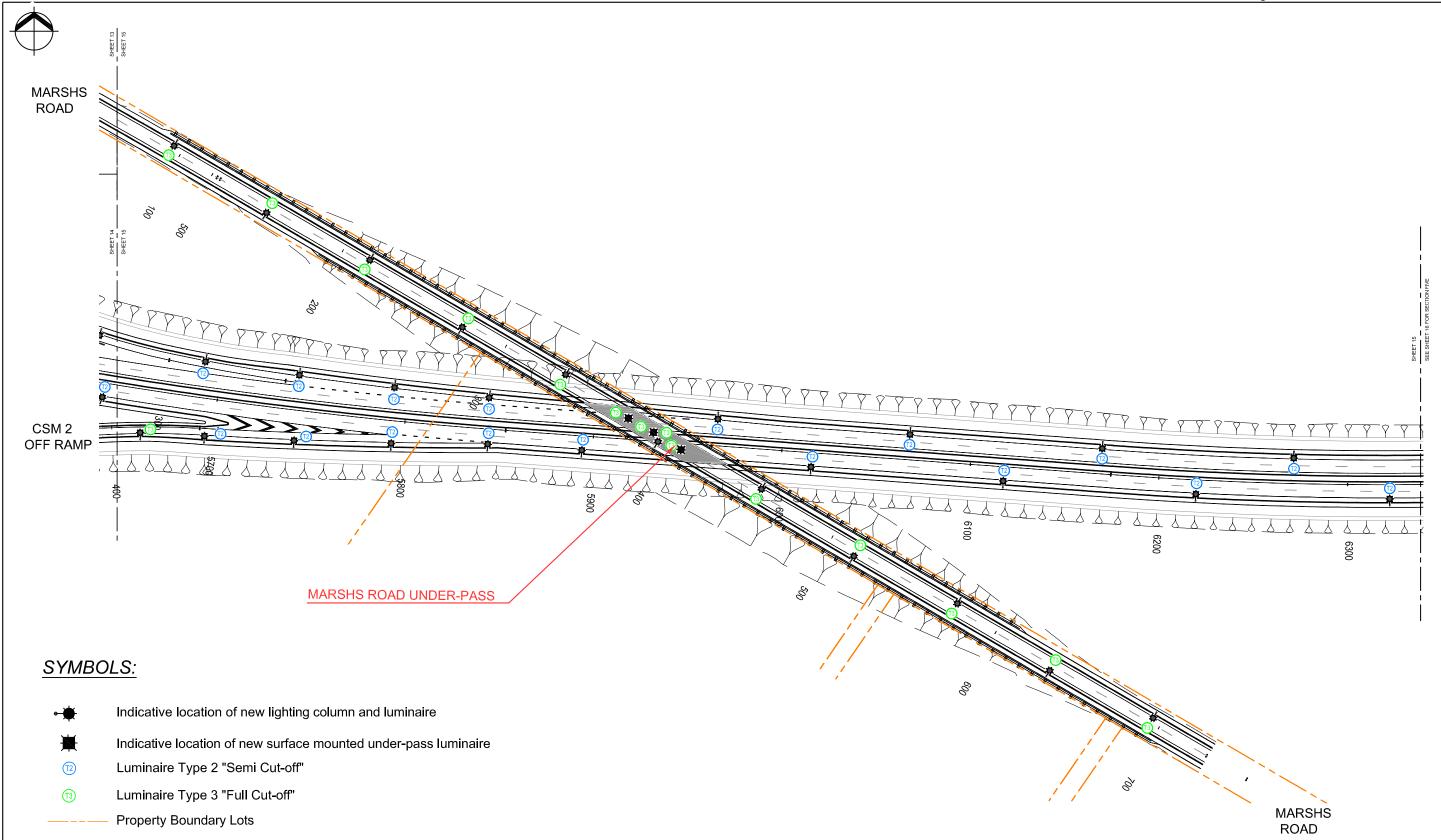
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SH1 & SH76 CHRISTCHURCH SOUTHERN MOTORWAY CSM2 & MSRFL

CONCEPT DESIGN
SHEET 14 OF 20

LIGHTING 16.001630 5100m to 5600r



- 1. This drawing is a 'Concept' design only, showing indicative locations of new road lighting columns for proposed Christchurch Southern Motorway Stage 2 and Main South Road Four-laning project.

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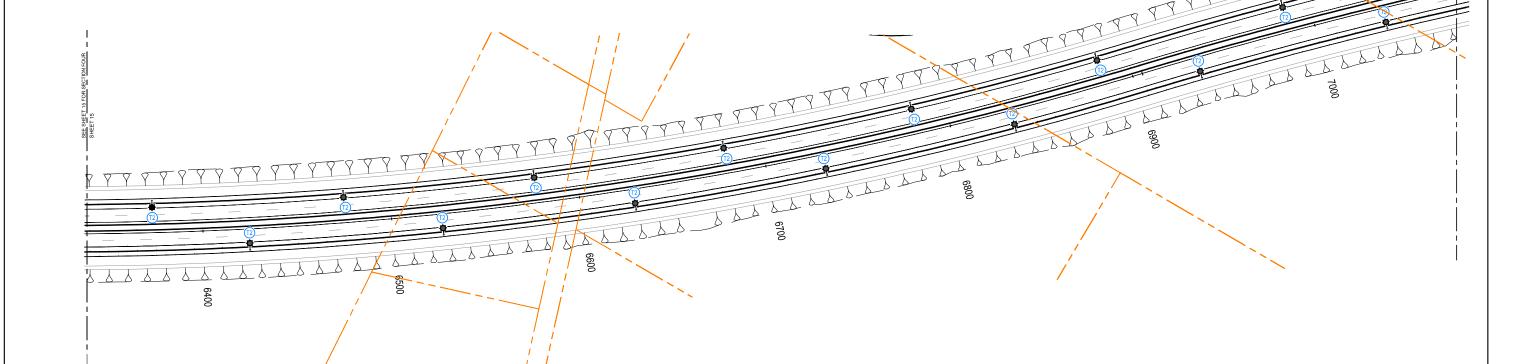


Project:	SH1 & SH76
CHRIST	CHURCH SOUTHERN MOTORWAY
	CSM2 & MSRFI

CONCEPT DESIGN	
SHEET 15 OF 20	

Discipline	LIGHTING	
Drawing No.	Meters	Rev.
16 001630	5700m to 6300m	В





- Existing cycleway lighting to remain
- Indicative location of new lighting column and luminaire
- Indicative location of new cycleway lighting column and luminaire
- Luminaire Type 2 "Semi Cut-off"
- 13 Luminaire Type 3 "Full Cut-off"

Property Boundary Lots

NOTES:

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oject: SH1 & SH76

CHRISTCHURCH SOUTHERN MOTORWAY

CSM2 & MSRFL

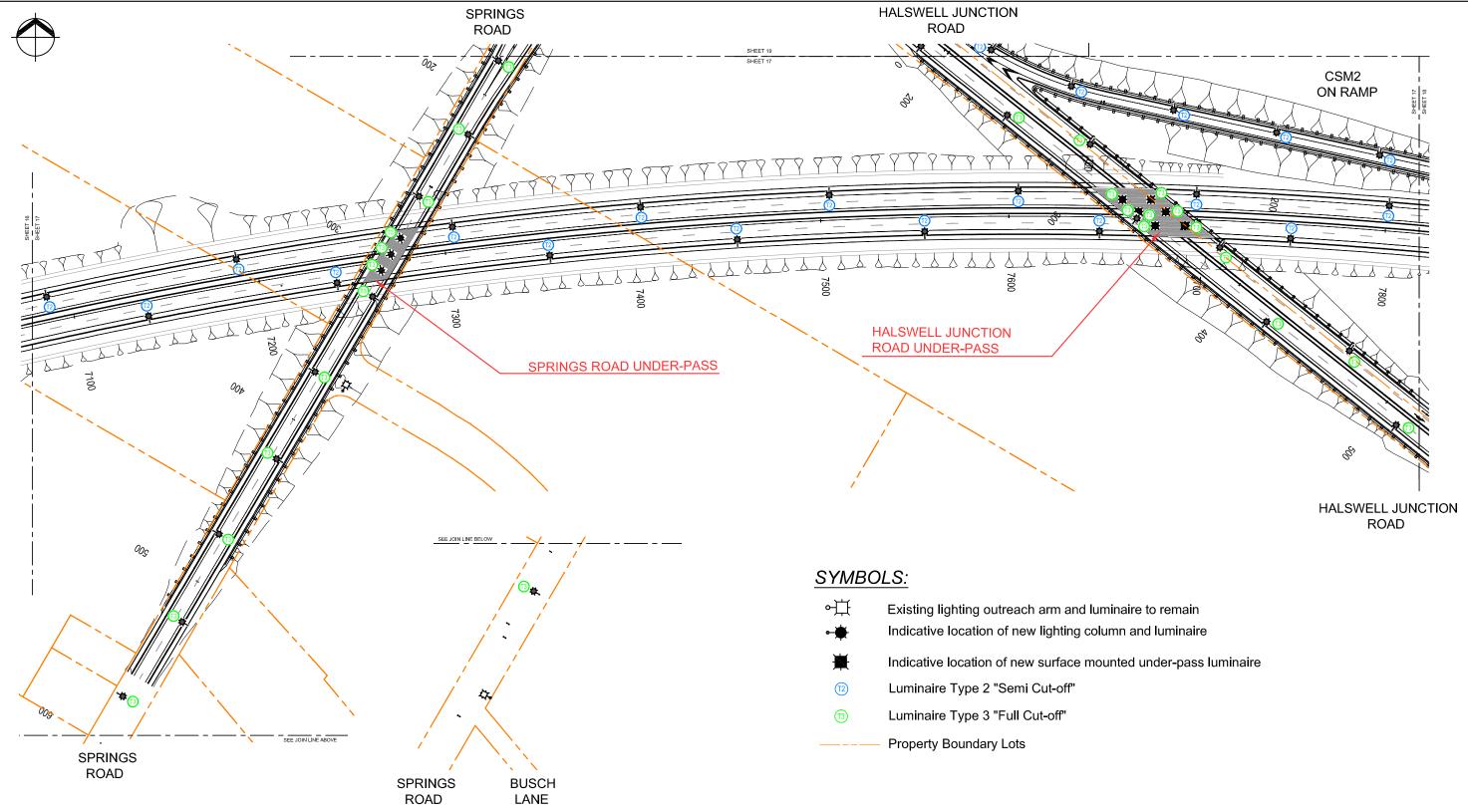
CONCEPT DESIGN SHEET 16 OF 20

CONCEPT ONLY

Not For Construction

DO NOT SCALE





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- 2. Spacings and locations of lighting columns have been determined based on information provided, dated March 2012.

CONCEPT ONLY
Not For Construction

ı	Α	LUMINAIRE TYPES ADDED	BH	SM	SM	16-05-12
L	В	UPDATED ROAD ALIGNMENT	ВН	SM	Mris	27-06-12
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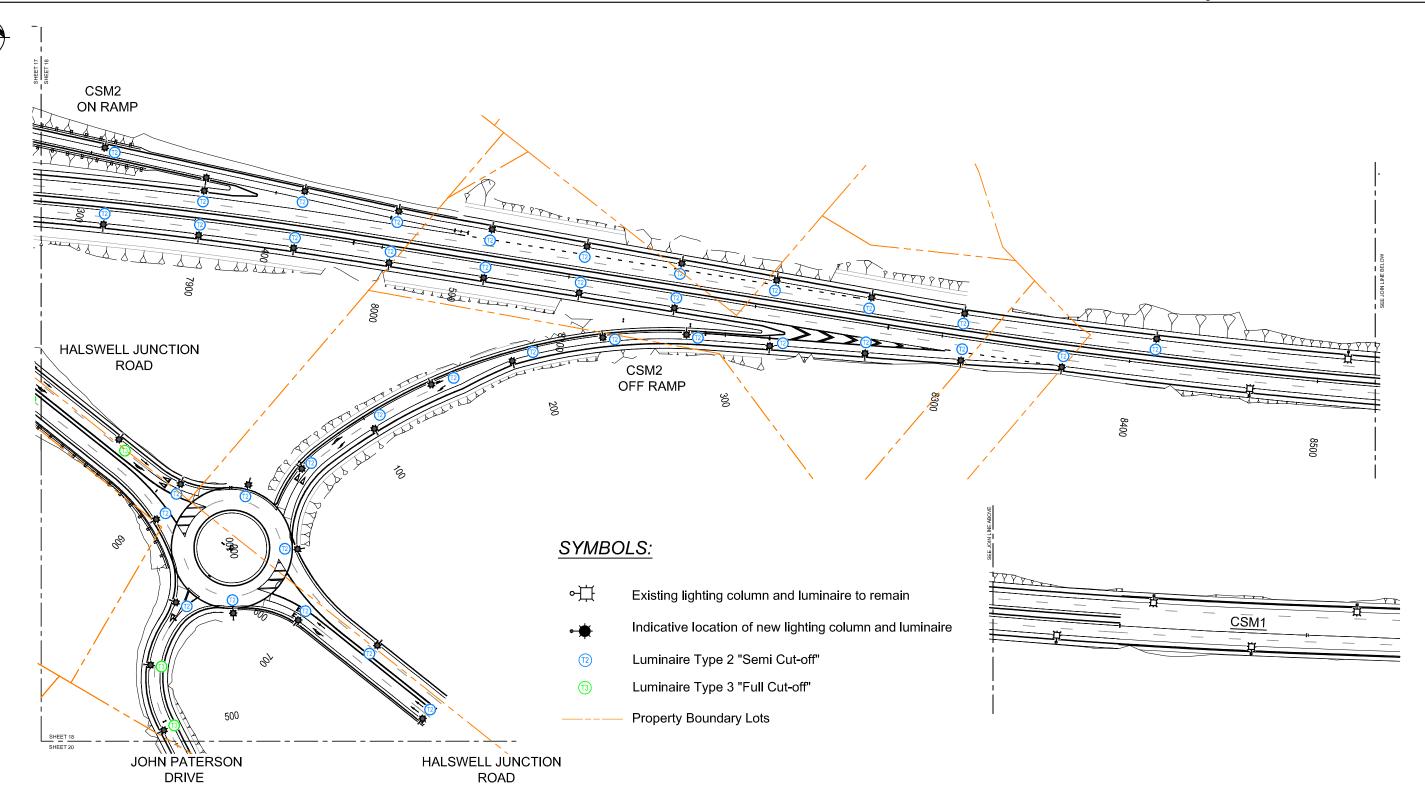


oject: SH1 & S76
CHRISTCHURCH SOUTHERN MOTORWAY
CSM2 & MSRFL

CONCEPT DESIGN
SHEET 17 OF 20

Discipline	LIGHTING	
Drawing No.	Meters	Rev.
16 001630	7100m to 7800m	В





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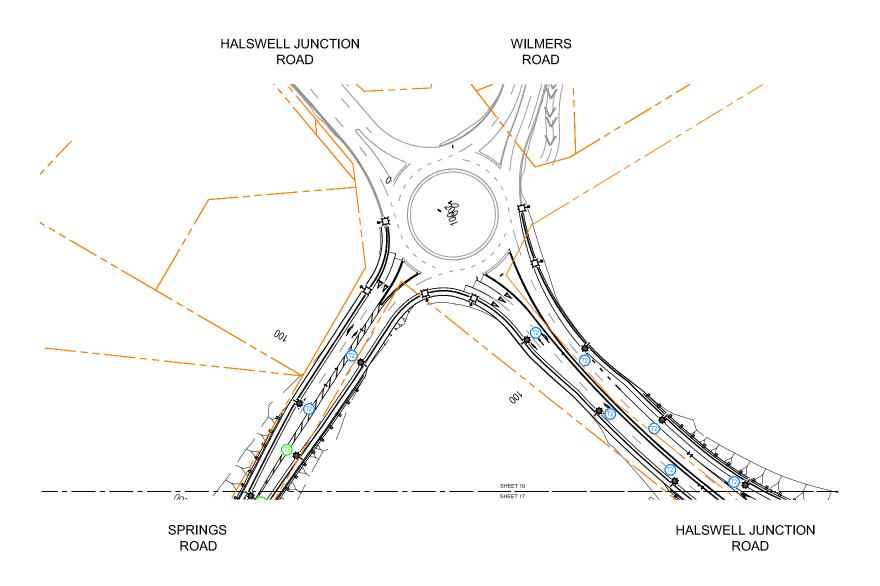
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Project: SH1 & SH76
CHRISTCHURCH SOUTHERN MOTORWAY
CSM2 & MSRFL

	Not For	Construction	





- Existing lighting column and luminaire to remain
- Indicative location of new lighting column and luminaire
- © Luminaire Type 2 "Semi Cut-off"
- 13 Luminaire Type 3 "Full Cut-off"
- ---- Property Boundary Lots

NOTES:

- 1. This drawing is a 'Concept' design only, showing indicative locations of new road lighting columns for proposed Christchurch Southern Motorway Stage 2 and Main South Road Four-laning project.

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CONCEPT ONLY
Not For Construction

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	Dwg Check	SM	05-12	Date

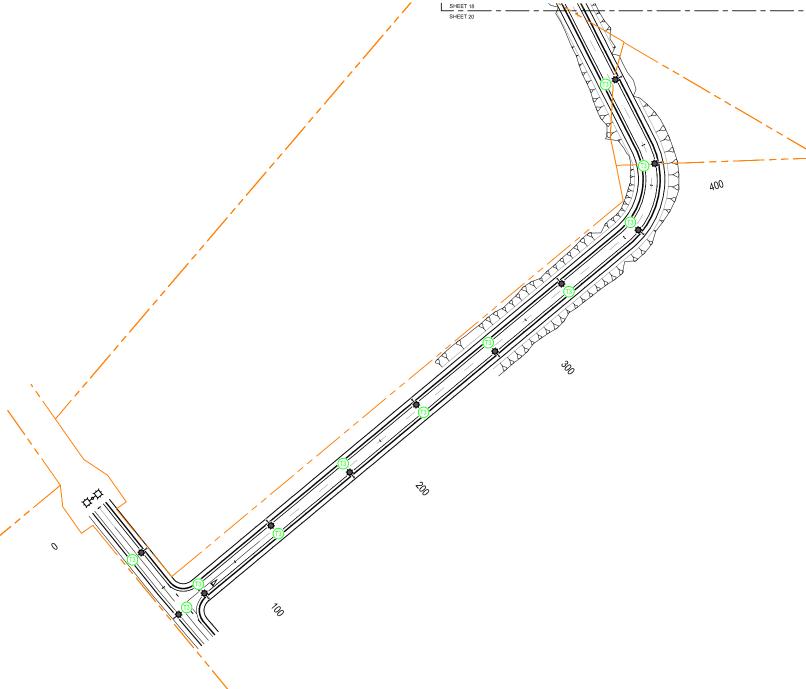


roject: SH1 & SH76
CHRISTCHURCH SOUTHERN MOTORWAY
CSM2 & MSRFL

CONCEPT DESIGN	
SHEET 19 OF 20	

JOHN PATTERSON





SYMBOLS:

Existing lighitng column and luminaire

Indicative location of new lighting column and luminaire

13 Luminaire Type 3 "Full Cut-off"

—-- Property Boundary Lots

NOTES:

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CONCEPT DESIGN	Discipline	LIGHTING
SHEET 20 OF 20	Drawing No.	Meters
311LL1 20 01 20	16 001630	7900m to 850