



Road Development Corporation Limited
Republic of Maldives

**Terms of Reference for
Addendum to Environmental Impact Assessment report of
Sh. Milandhoo Road Development project**

1. BACKGROUND

Road Development Corporation Limited, an incorporated limited liability company operating under the registration number C10482019 and having its registered office at MSL Building, First Floor, Malé, Republic of Maldives (herein after called and referred to as “the Employer”), wishes obtain services of a consultant/firm to study and propose addendum to EIA report of Sh. Milandhoo Road Development project.

2. SCOPE OF WORK.

- A. Consultancy services for making addendum to Environmental Impact Assessment for Sh. Milandhoo Road Development project, including the submission Fees and all related data collection.
- B. Amendments to be brought to EIA addendum:
 - a. Road Conceptual changes
 - b. Proposed Additional roads
 - c. Change in Sea Outfall Locations
 - d. Change in Pump Station locations/numbers
- C. Get Approval of from EPA.

3. EMPLOYER’S CONTRIBUTION

The employer shall grant access to all available materials, which may be required for the Consultant to perform their services.

4. EVALUATION CRITERIA

The submitted responsive bids will be evaluated under the following criteria.

Educational Qualification certificates along with Project Completion Certificates must be submitted for validation.

#	Criteria	Weightage %
1	Price	30%
2	Experience & Qualification	70%

4.1 Experience & Qualification requirements for consultancy (70%)

The evaluation will be conducted in two stages, which are the Technical Evaluation stage and the Financial Evaluation stage. The details of the evaluation of the two stages are as follows.

Stage 1: Technical Evaluation

Bidders who achieve 45% and higher out of 70% in this stage, will be qualified for the Financial Evaluation stage. Any bidder who does not achieve minimum 45% in this stage, those bids will not be considered for

further evaluation. The evaluation for this stage will be done by awarding points based on following categories.

To provide the top-level performance of the assigned task(s), the Consultant shall utilise qualified staff (key personnel as well as support staff) and shall contribute to the preparation, testing, and amendments till the reports are approved from all relevant authorities.

All specialists shall be certified professionals in their respective fields and will have to submit their certificates and CVs for validation.

Completion letters for similar nature projects will be accepted for both Company and for the individual key expert. **Maximum three project completion letters will be considered from each previous client of the Company/Individual key expert.** Completion letters for similar nature projects will have to be addressed either to the Company or the individual key expert stating the nature of works undertaken, contract value (minimum MVR 100,000), duration/time period the project was completed.

The Consultant should utilize the following personnel.

Consultants	Qualification & Experience Requirements	No.	Educational Qualification	Project Experience
			20%	50%
			Bachelor's Degree (20 marks)	Completed similar nature projects with a minimum contract value of MVR 100,000 each (Each project 5 marks, max. 10 projects)
Key Experts			20 Marks	50 Marks
Environmental / Hydrological specialist	Minimum Bachelor's Degree in Environmental Engineering/Environmental Science/Environmental Management or related field Must be a licensed EIA consultant 5 years of experience in subject field	1		
TOTAL MARKS			70 Marks	

5. EMPLOYER’S CONTRIBUTION

The Employer will grant access to all available materials which may be required by the Consultant to perform their services.

6. DURATION OF THE ASSIGNMENT

The expected duration of the consultant assignment is **30 days**.

7. CONSULTANT’S REPORTING OBLIGATIONS

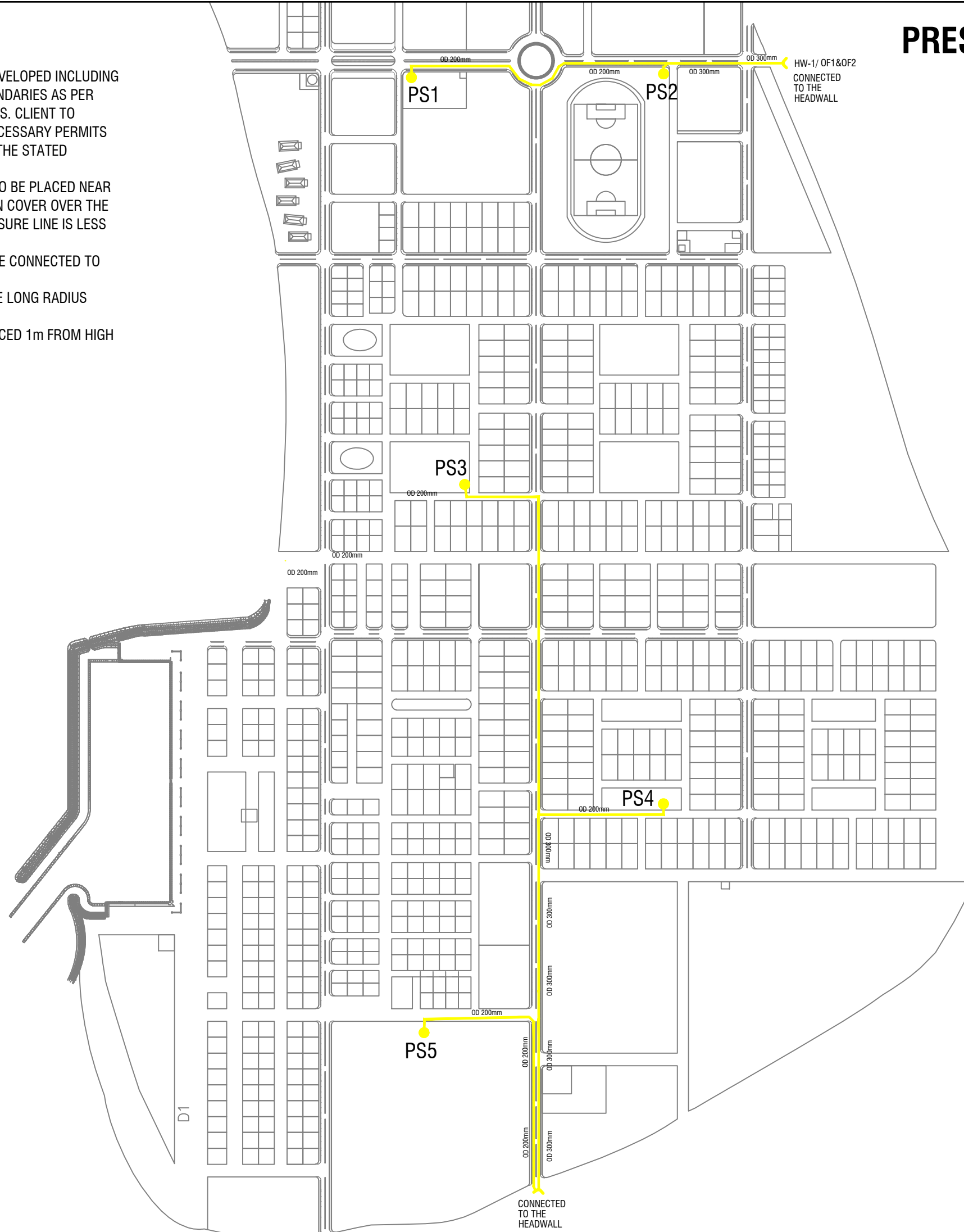
The Consultant shall submit the following report(s) for approval and shall contribute to the preparation of the documents and amendments till the reports are approved by the relevant authorities. The report should be up to industry standards.

Deliverables	Submission Date	Language
Environmental Impact Assessment Report	Within 30 calendar days from the commencement date	English










NOTES:

- ALL PS TO BE DEVELOPED INCLUDING TYPICAL PS BOUNDARIES AS PER DETAIL DRAWINGS. CLIENT TO ACQUIRE ALL NECESSARY PERMITS TO BUILD PS AT THE STATED LOCATIONS.
- CULVERT ONLY TO BE PLACED NEAR HEADWALL WHEN COVER OVER THE CROWN OF PRESSURE LINE IS LESS THAN 300mm.
- ALL OUTLETS ARE CONNECTED TO HEADWALLS.
- ALL BENDS TO BE LONG RADIUS BENDS.
- HEADWALLS PLACED 1m FROM HIGH TIDE LEVEL

PRESSURE NETWORK LAYOUT / Sh.MILANDHOO



LEGEND

-  PUMP STATION
 -  SETTLEMENT TANK SINGLE PIPE
 -  SETTLEMENT TANK DOUBLE PIPE
 -  ZONE 1 UPVC GRAVITY SDR 41 CONDUIT (300mm)
 -  ZONE 2 UPVC GRAVITY SDR 41 CONDUIT (300mm)
 -  ZONE 3 UPVC GRAVITY SDR 41 CONDUIT (300mm)
 -  ZONE 4 UPVC GRAVITY SDR 41 CONDUIT (300mm)
 -  ZONE 5 UPVC GRAVITY SDR 41 CONDUIT (300mm)
 -  PUMPING MAIN (PN10)
200mm FROM PS to MAINS
315mm in MAINS
- NOTE: ALL INVERTS TAKEN FROM MSL

PROJECT:
**Sh. MILANDHOO
STORMWATER DESIGN**

CLIENT:
RDC

DESIGNED BY ABDULLA RASHEED

CHECKED BY -

DRAWN BY ABDULLA RASHEED



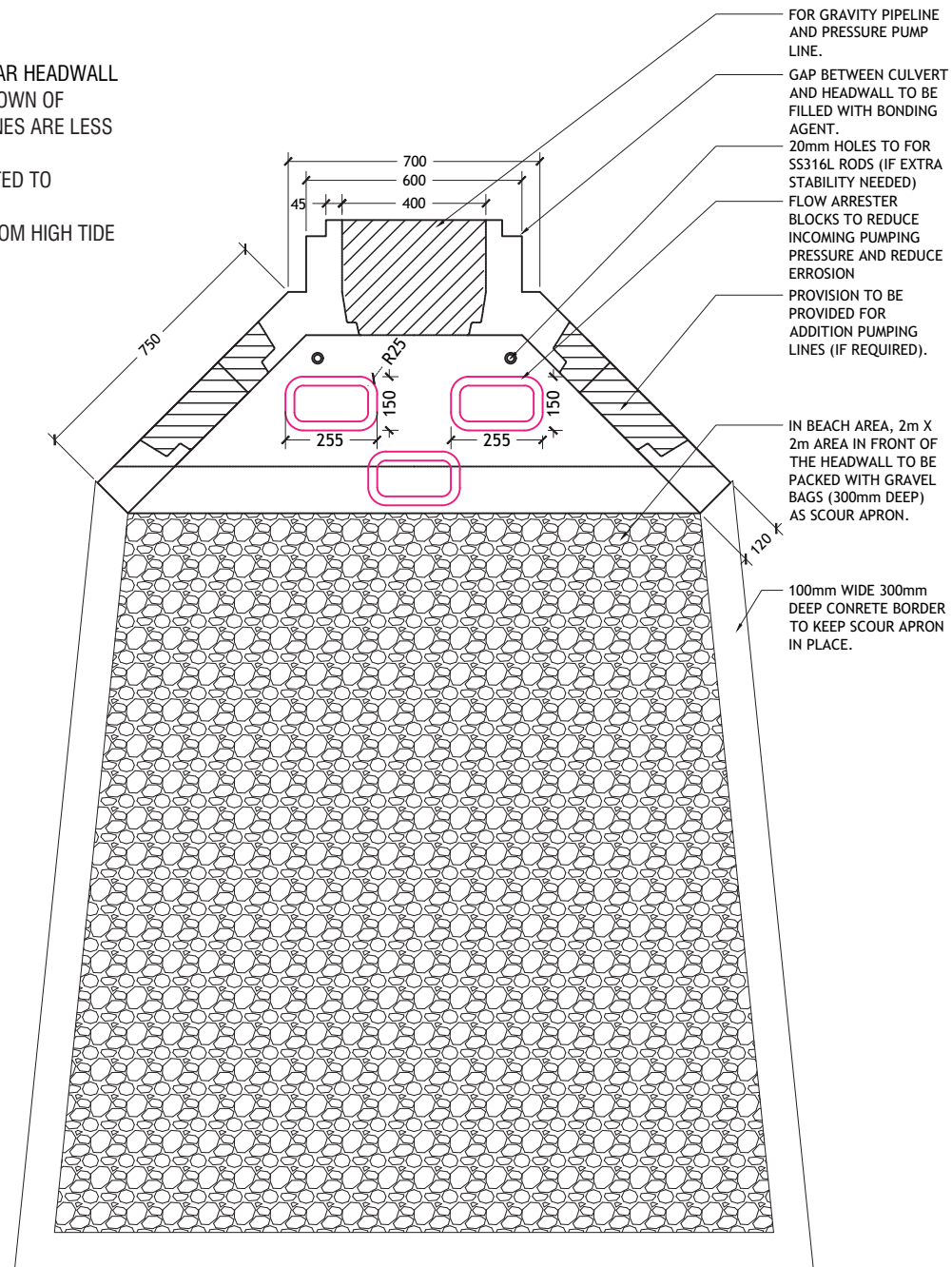
RAKENTA
DESIGN / BUILD & CONSULTANCY
H.Fahivai , +960 778 5656
rakentamv@gmail.com

REV:

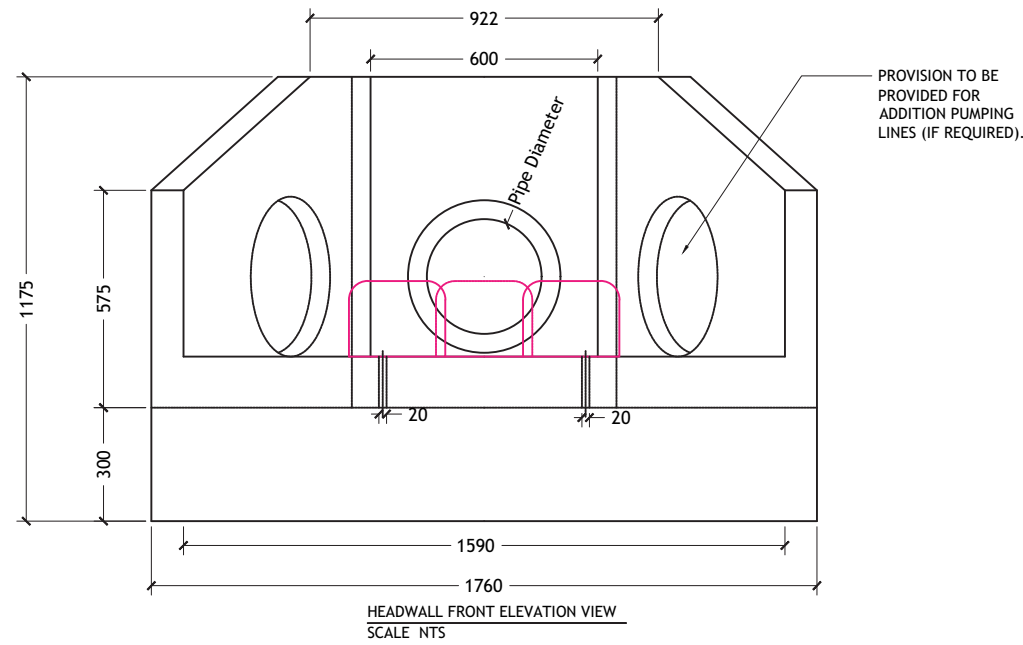
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NOTES:

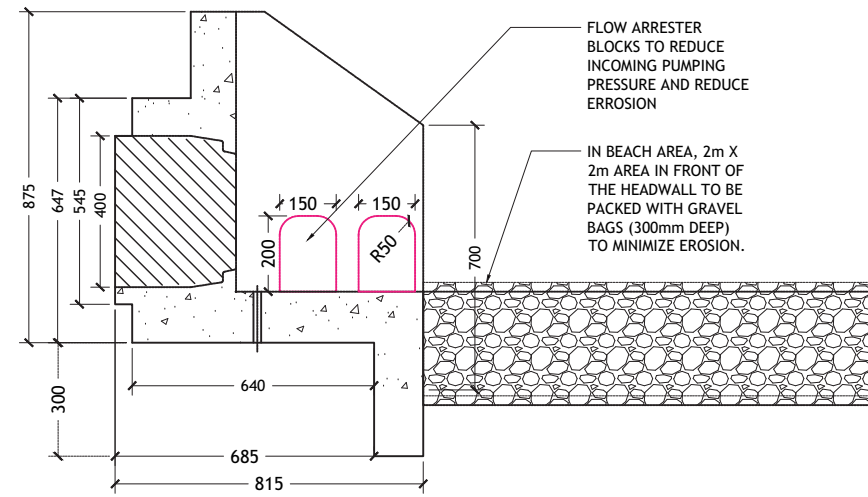
- CULVERT TO BE PLACED NEAR HEADWALL WHEN COVER OVER THE CROWN OF PRESSURE AND GRAVITY LINES ARE LESS THAN 300mm.
- ALL OUTLETS ARE CONNECTED TO HEADWALLS.
- HEADWALLS PLACED 1m FROM HIGH TIDE LEVEL



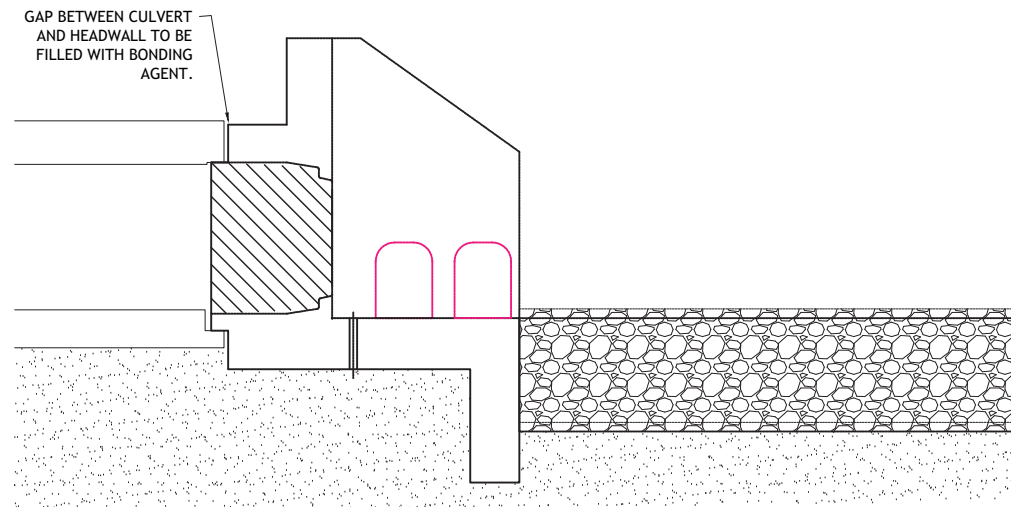
HEADWALL PLAN VIEW
SCALE NTS



HEADWALL FRONT ELEVATION VIEW
SCALE NTS



HEADWALL SIDE SECTION ELEVATION VIEW
SCALE NTS



HEADWALL AND CULVERT JOINT VIEW
SCALE NTS

PROJECT:

**Sh. MILANDHOO
STORMWATER DESIGN**

CLIENT:

RDC

DESIGNED BY ABDULLA RASHEED

CHECKED BY =

DRAWN BY ABDULLA RASHEED



RAKENTA

DESIGN / BUILD & CONSULTANCY
H.Fahivai , +960 778 5656
rakentamv@gmail.com

REV:

PAGE:

A - 12

SH. MILANDHOO

DESIGN & BUILD OF SH.MILANDHOO MAJOR ROADS

ANNEX 1 - CONCEPT DRAWINGS

DESIGNED BY:

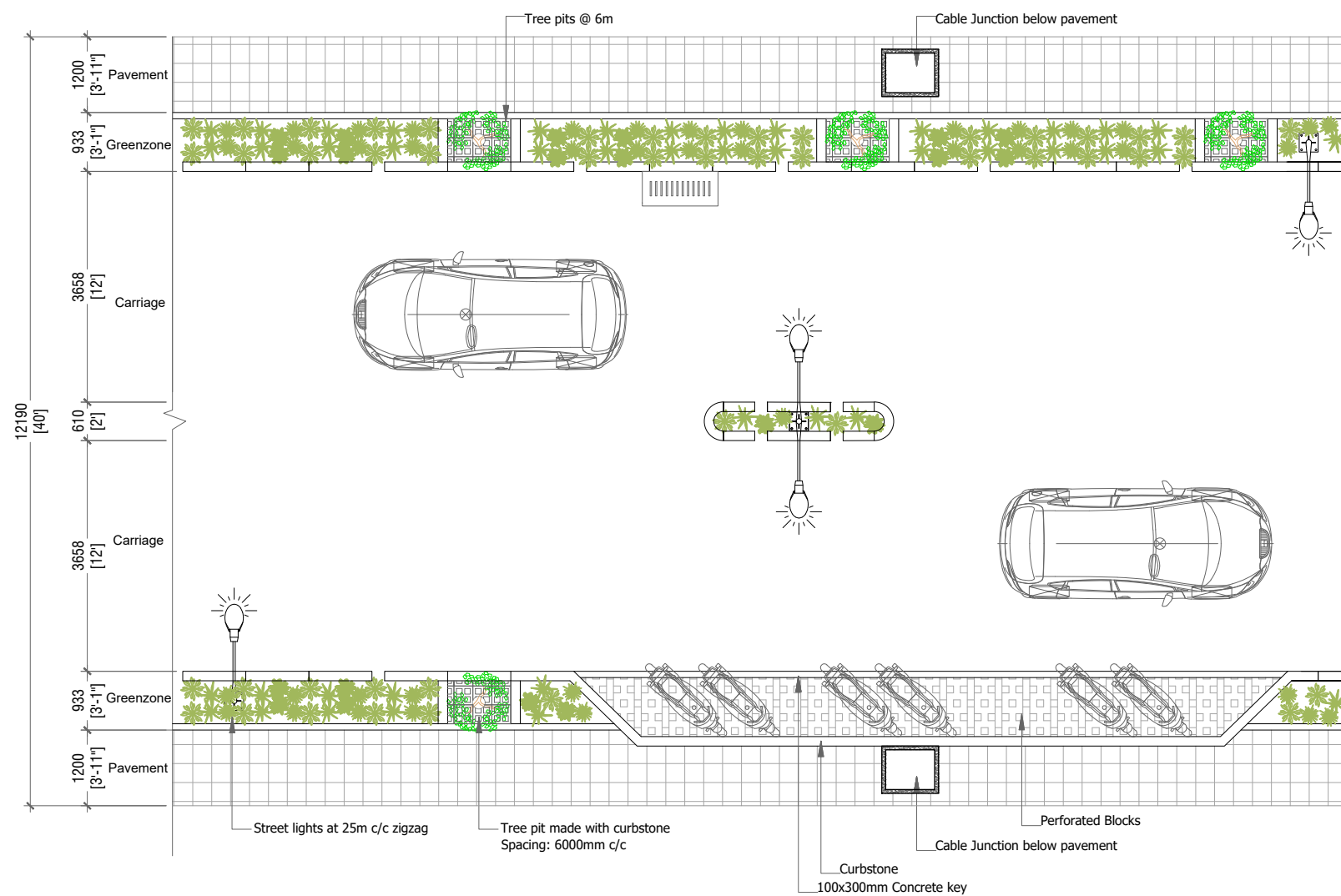
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ORCHID MAGU, MAAFANNU, MALE', REPUBLIC OF MALDIVES

CLIENT:

MINISTRY OF NATIONAL PLANNING & INFRASTRUCTURE
AMEENEE MAGU, MAAFANNU, MALE' 20392, REPUBLIC OF MALDIVES

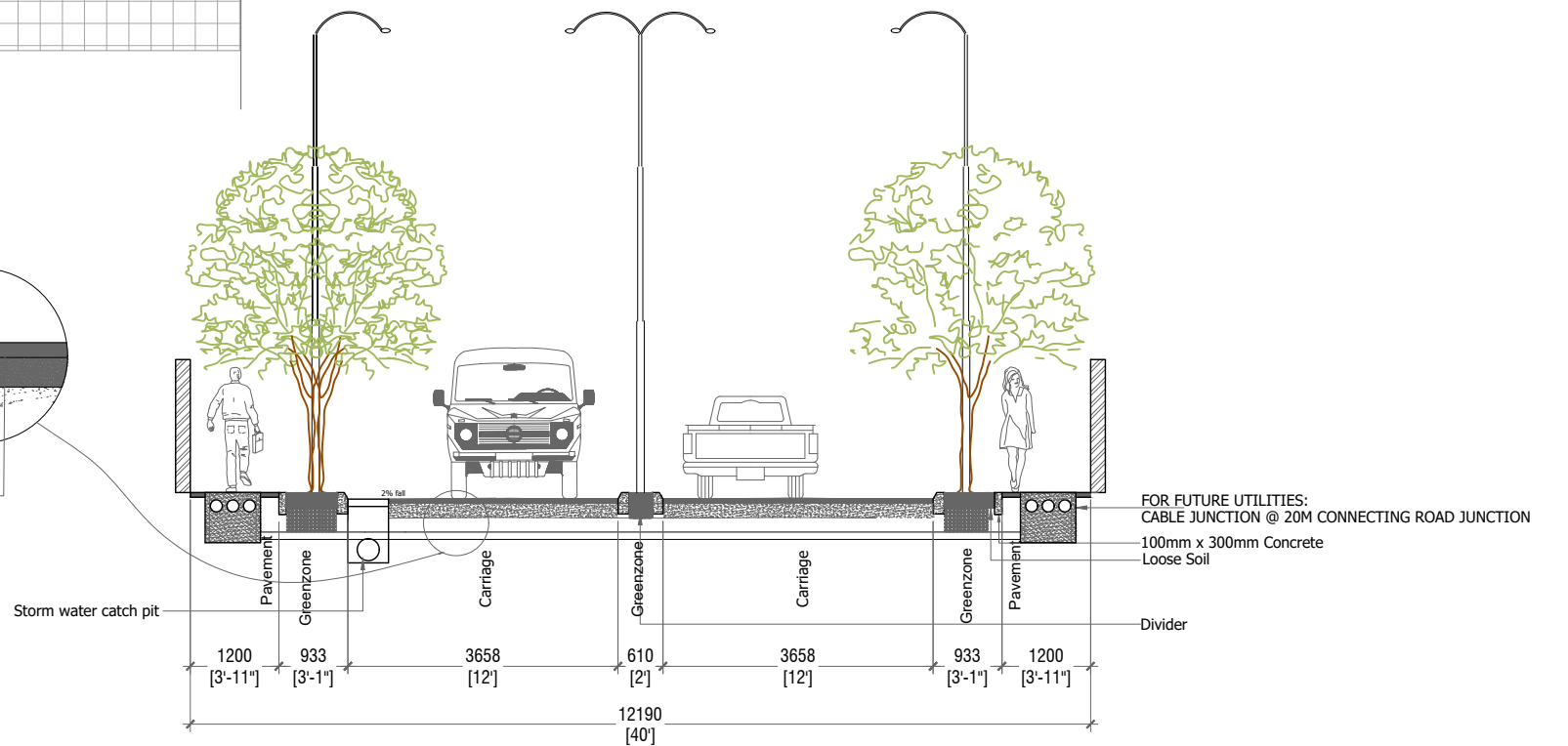
2021





GAAZEE MAGU - PLAN

SCALE 1:100



GAAZEE MAGU - SECTION

SCALE 1:100

PROJECT: DESIGN & BUILD OF SH.MILANDHOO MAJOR ROADS

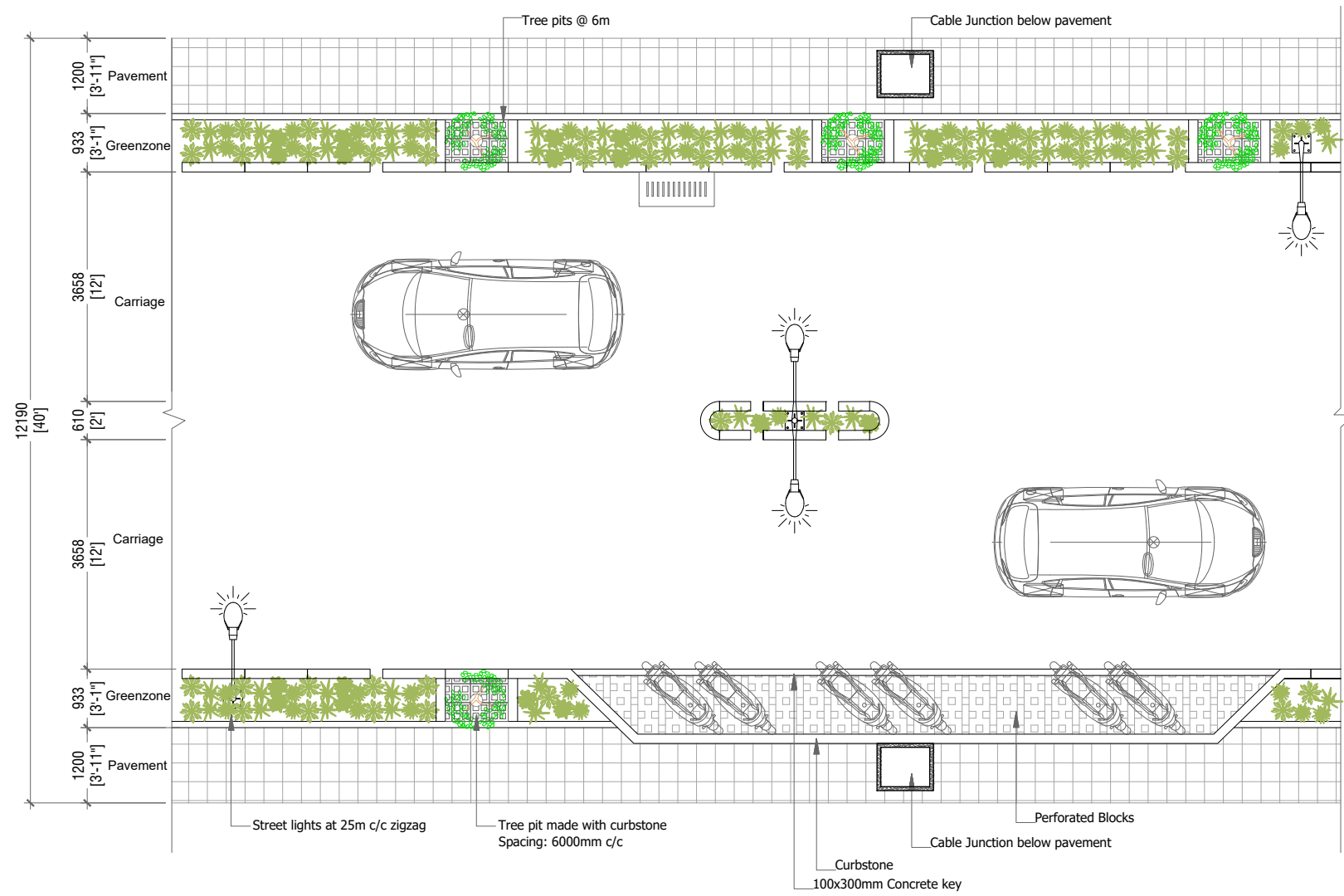
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 MINISTRY OF NATIONAL PLANNING & INFRASTRUCTURE
 AMEENEE MAGU,
 MALE'
 REPUBLIC OF MALDIVES

CONTRACTOR:
 ROAD DEVELOPMENT CORPORATION LTD.
 ORCHID MAGU,
 MAAFANNU, MALE'
 REPUBLIC OF MALDIVES

DRAWING TITLE:
GAAZEE MAGU

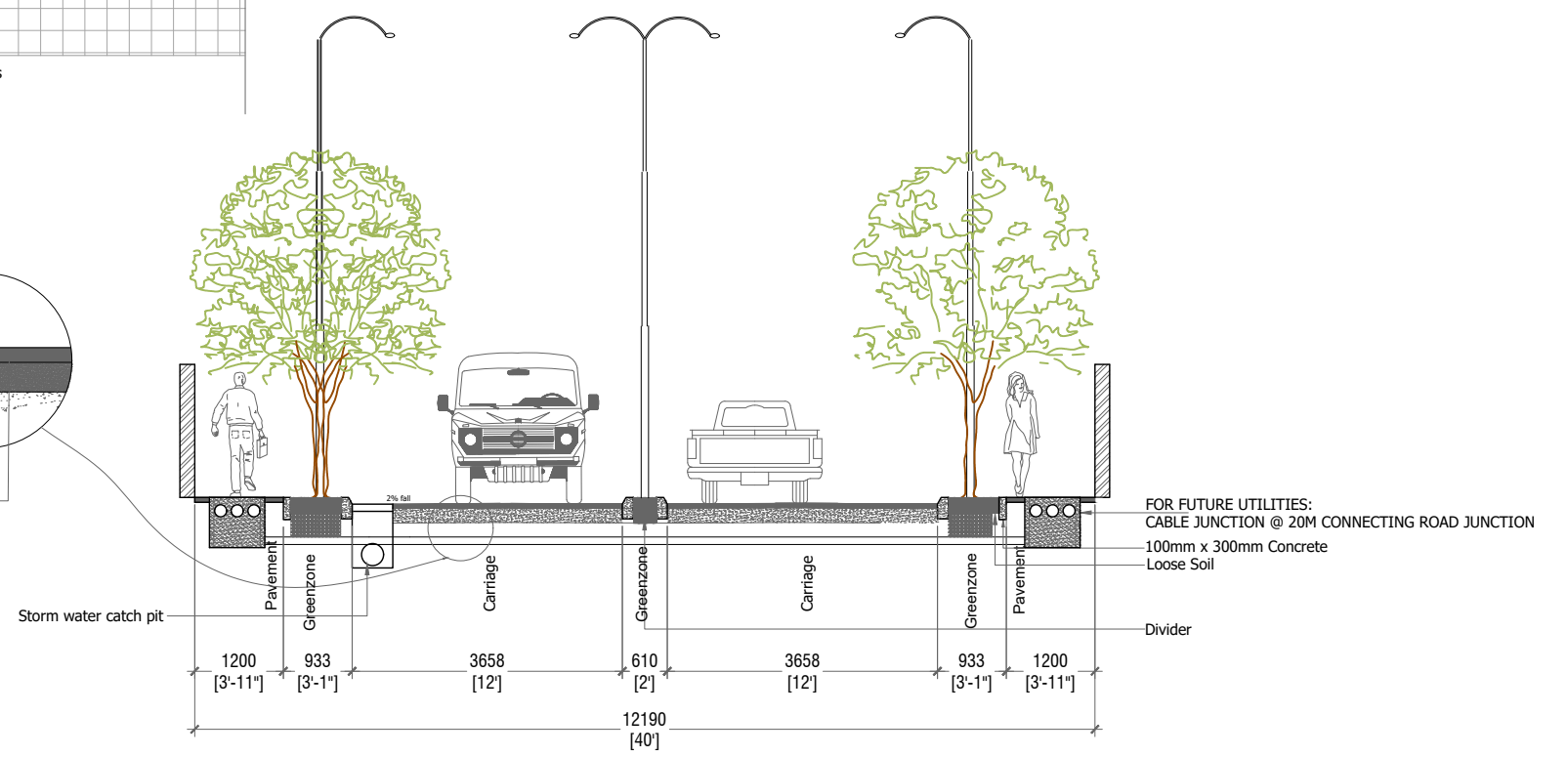
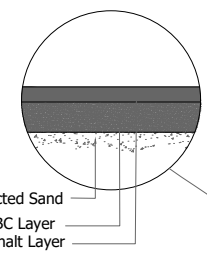


DRAWN BY: AHMED IRFAN
APPROVED BY: ALI ZAMEER
PROJECT NO: MIL-RC-2020-05
DRAWING NO: 02
SCALE: 1:100
DATE: MARCH 2021




SHAHEED ALI HIN'GUN - PLAN

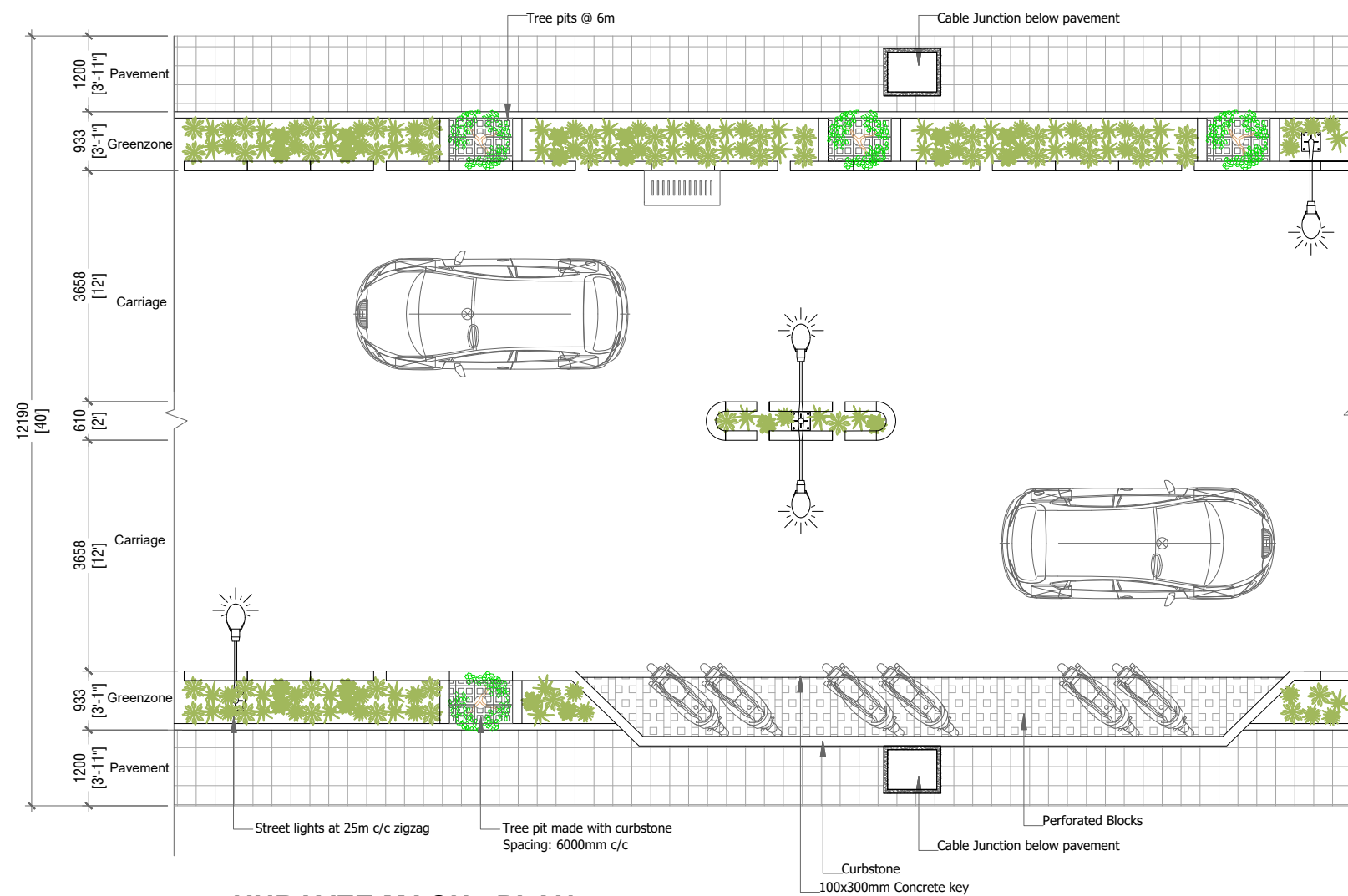
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SHAHEED ALI HIN'GUN - SECTION

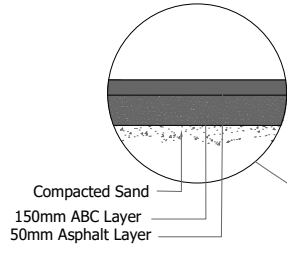
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PROJECT: DESIGN & BUILD OF SH.MILANDHOO MAJOR ROADS			
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MINISTRY OF NATIONAL PLANNING & INFRASTRUCTURE AMEENEE MAGU, MALE' REPUBLIC OF MALDIVES	ROAD DEVELOPMENT CORPORATION LTD. ORCHID MAGU, MAAFANNU, MALE' REPUBLIC OF MALDIVES	SHAHEED ALI HIN'GUN	APPROVED BY:ALI ZAMEERU
			PROJECT NO: MIL-RC-2020-05
			DRAWING NO: 03
			SCALE: 1:100
			DATE: MARCH 2021

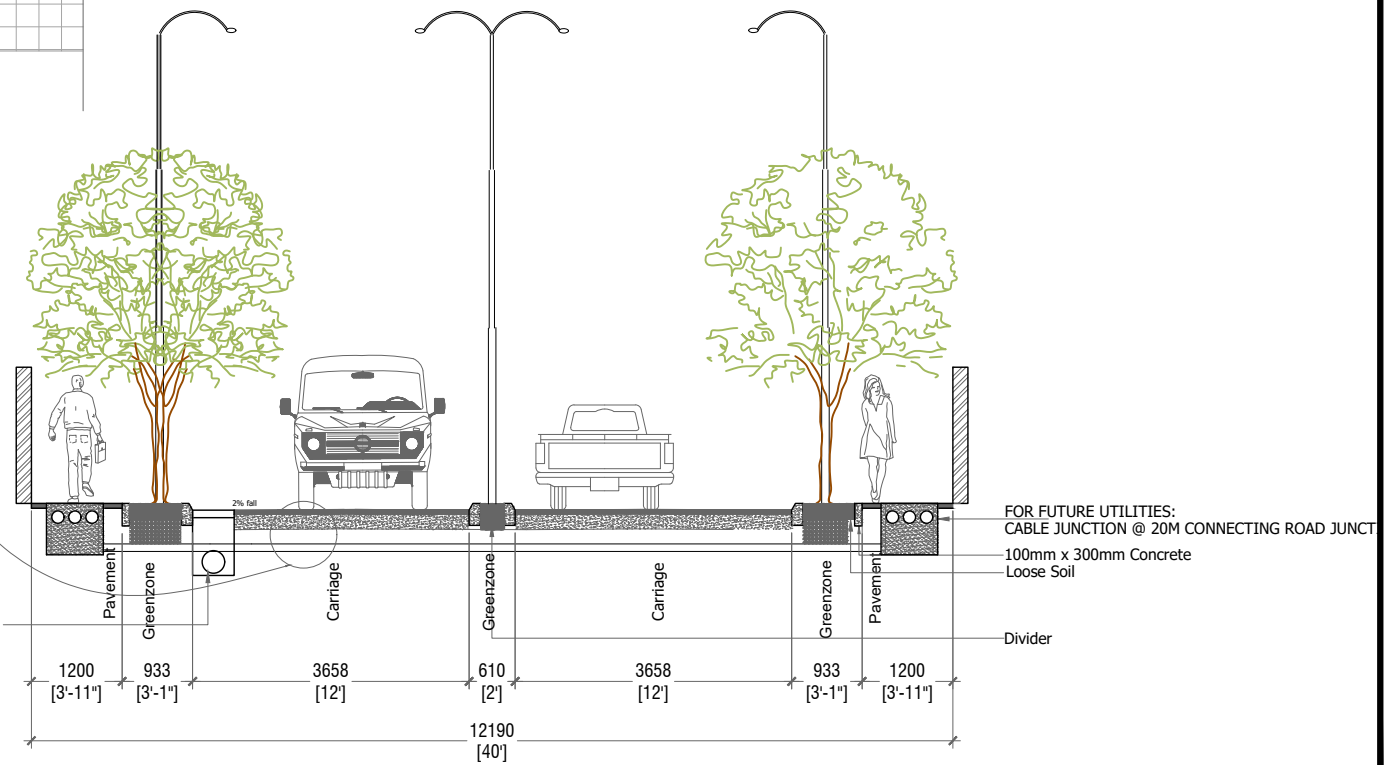


HURAVEE MAGU - PLAN

SCALE 1:100




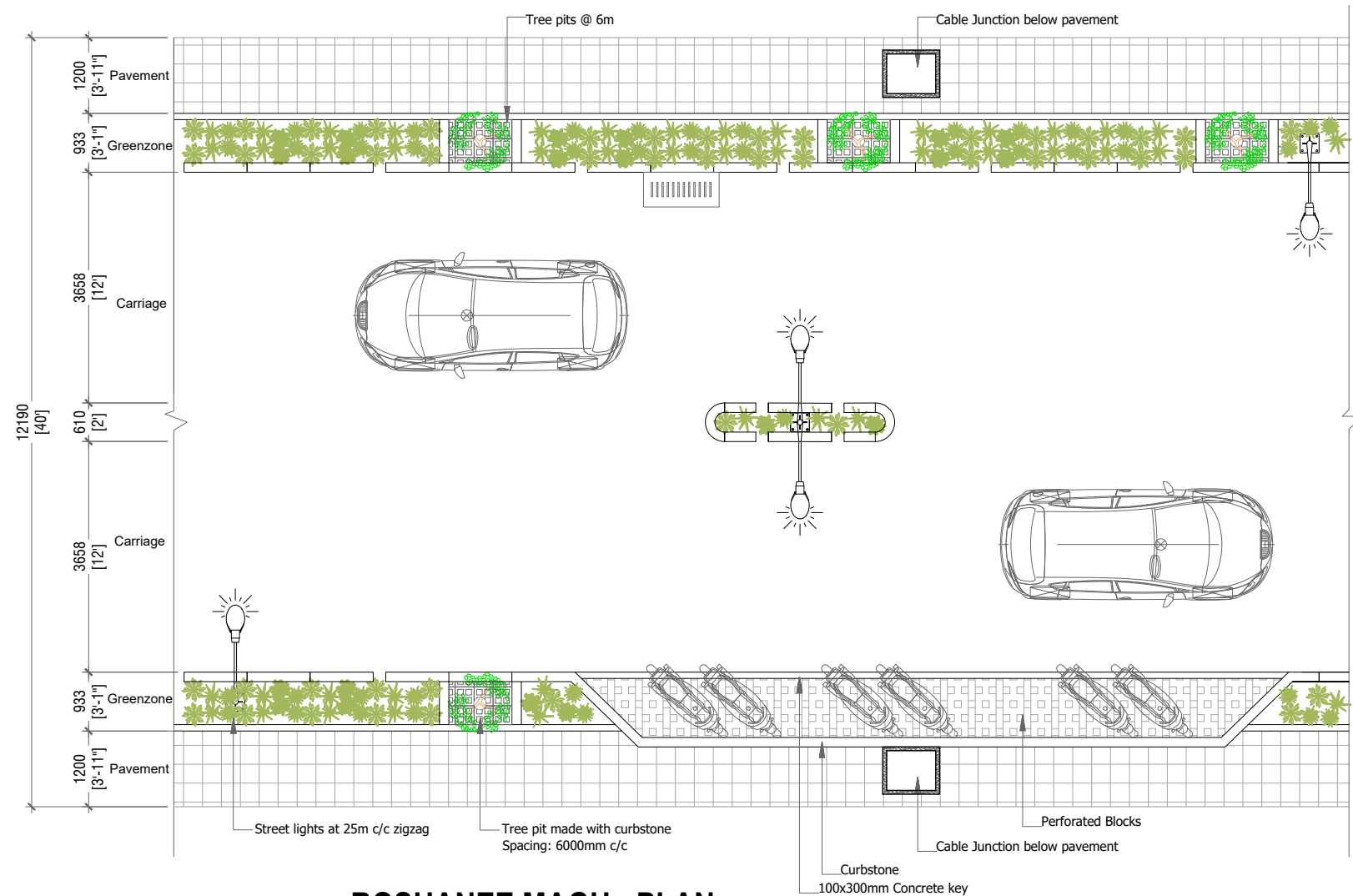
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150mm ABC Layer
50mm Asphalt Layer



HURAVEE MAGU - SECTION

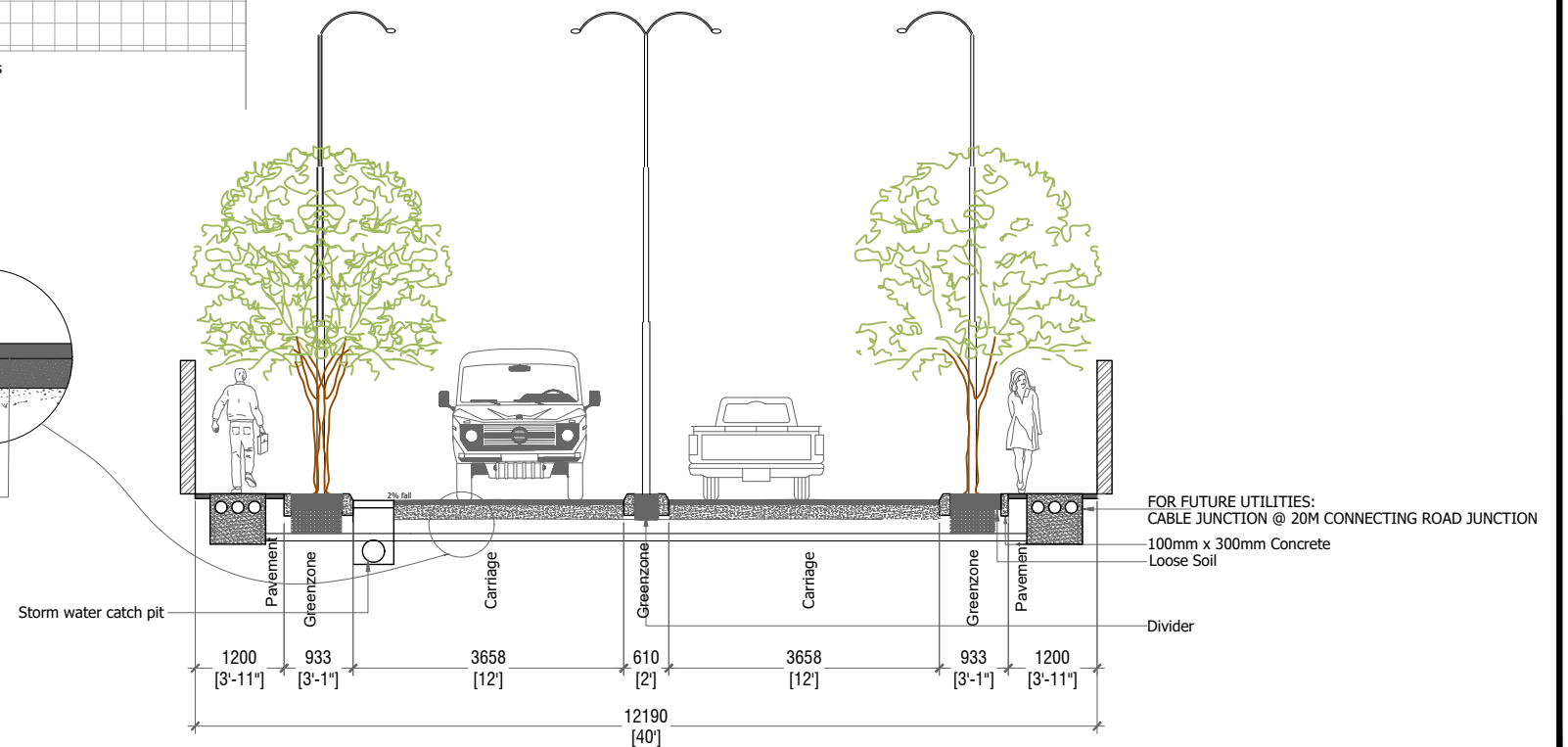
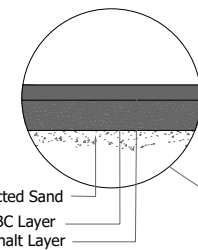
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PROJECT: DESIGN & BUILD OF SH.MILANDHOO MAJOR ROADS			
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MINISTRY OF NATIONAL PLANNING & INFRASTRUCTURE	ROAD DEVELOPMENT CORPORATION LTD.	HURAVEE MAGU	APPROVED BY: ALI ZAMEER
AMEENEE MAGU, MALE' REPUBLIC OF MALDIVES	ORCHID MAGU, MAAFANNU, MALE' REPUBLIC OF MALDIVES		PROJECT NO: MIL-RC-2020-05
			DRAWING NO: 04
			SCALE: 1:100



ROSHANEE MAGU - PLAN

SCALE 1:100



ROSHANEE MAGU - SECTION

SCALE 1:100

PROJECT: DESIGN & BUILD OF SH.MILANDHOO MAJOR ROADS

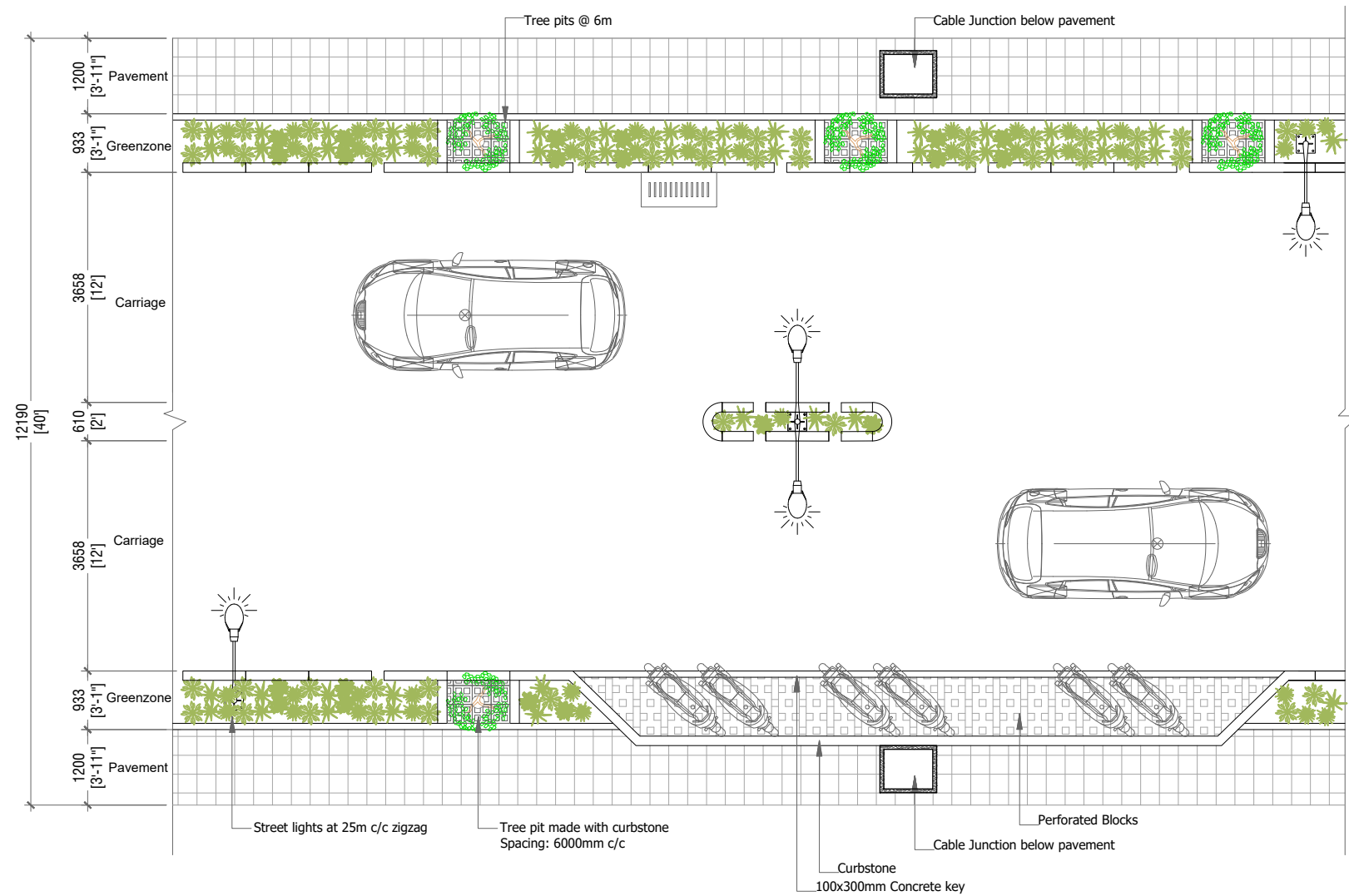
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MINISTRY OF NATIONAL PLANNING & INFRASTRUCTURE
AMEENEE MAGU,
MALE'
REPUBLIC OF MALDIVES

CONTRACTOR:
ROAD DEVELOPMENT CORPORATION LTD.
ORCHID MAGU,
MAAFANNU, MALE'
REPUBLIC OF MALDIVES

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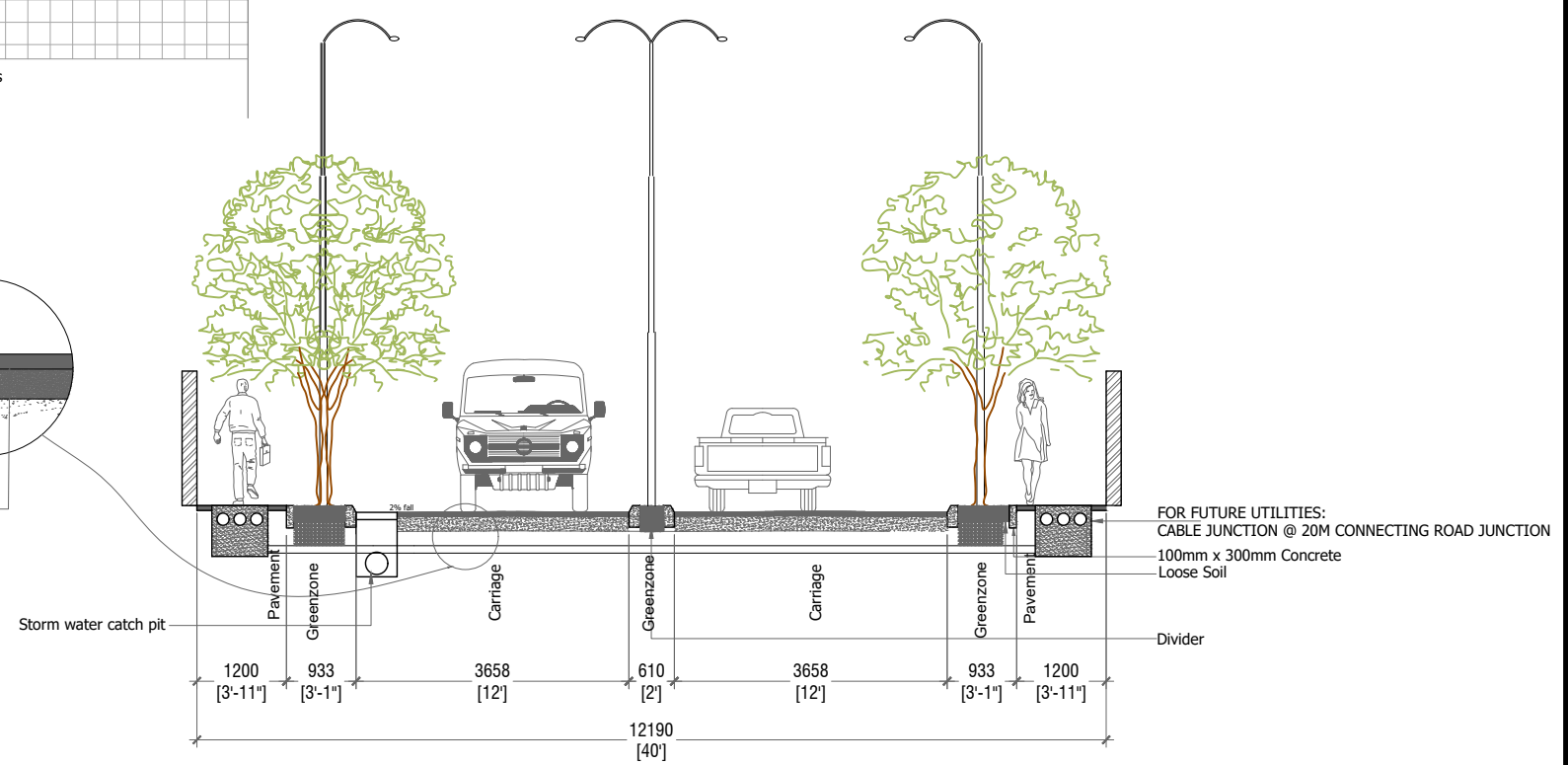
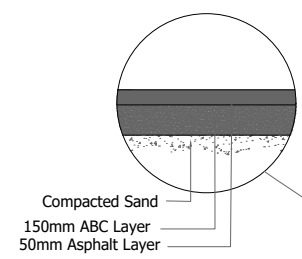


DRAWN BY: AHMED IRFAN
APPROVED BY: ALI ZAMEER
PROJECT NO: MIL-RC-2020-05
DRAWING NO: 05
SCALE: 1:100
DATE: MARCH 2021



KALAAFAANU HIN'GUN - PLAN

SCALE 1:100



KALAAFAANU HIN'GUN - SECTION

SCALE 1:100

PROJECT: DESIGN & BUILD OF SH.MILANDHOO MAJOR ROADS

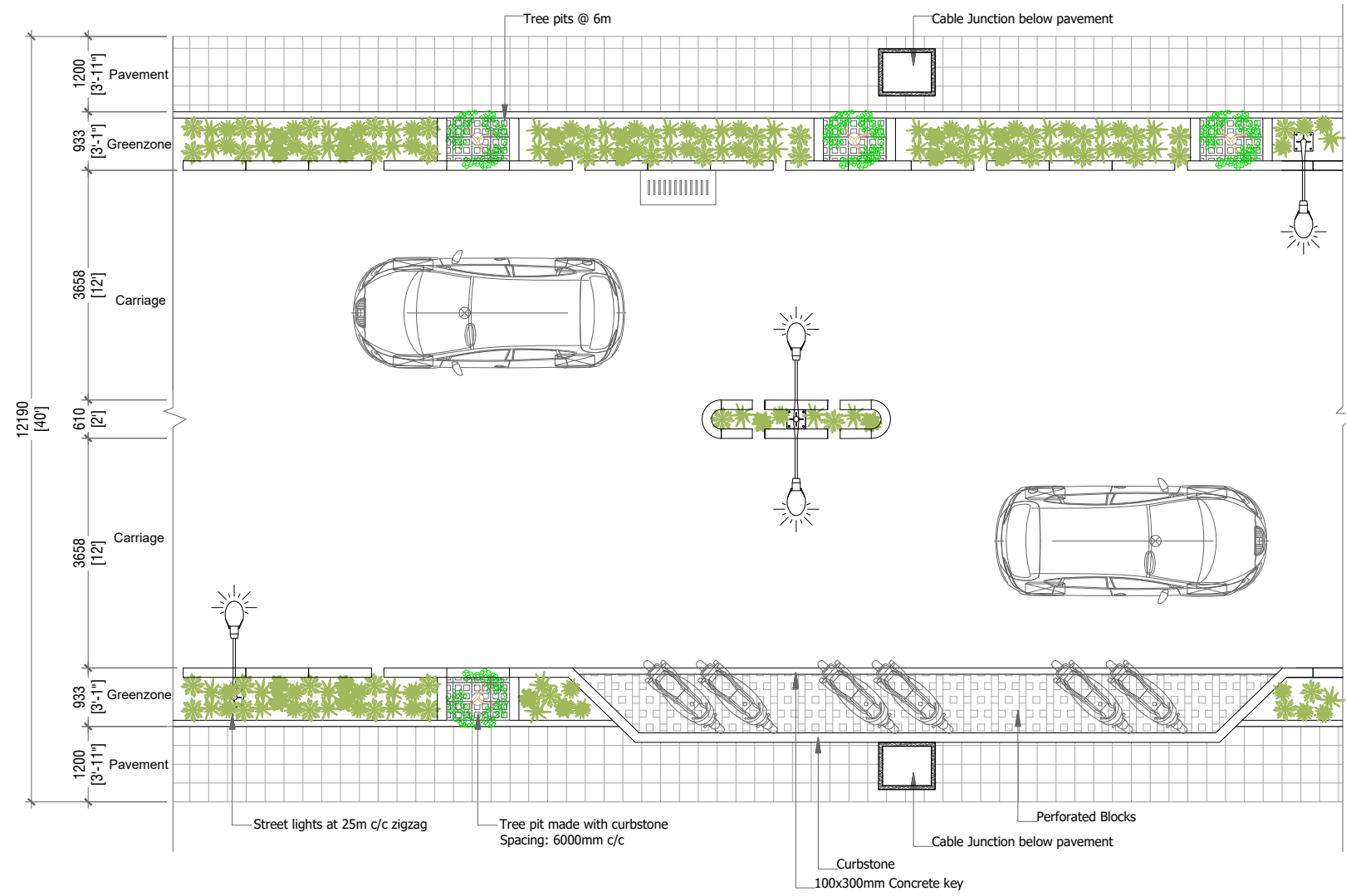
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 AMEENEE MAGU,
 MALE'
 REPUBLIC OF MALDIVES

CONTRACTOR:
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 ORCHID MAGU,
 MAAFANNU, MALE'
 REPUBLIC OF MALDIVES

DRAWING TITLE:
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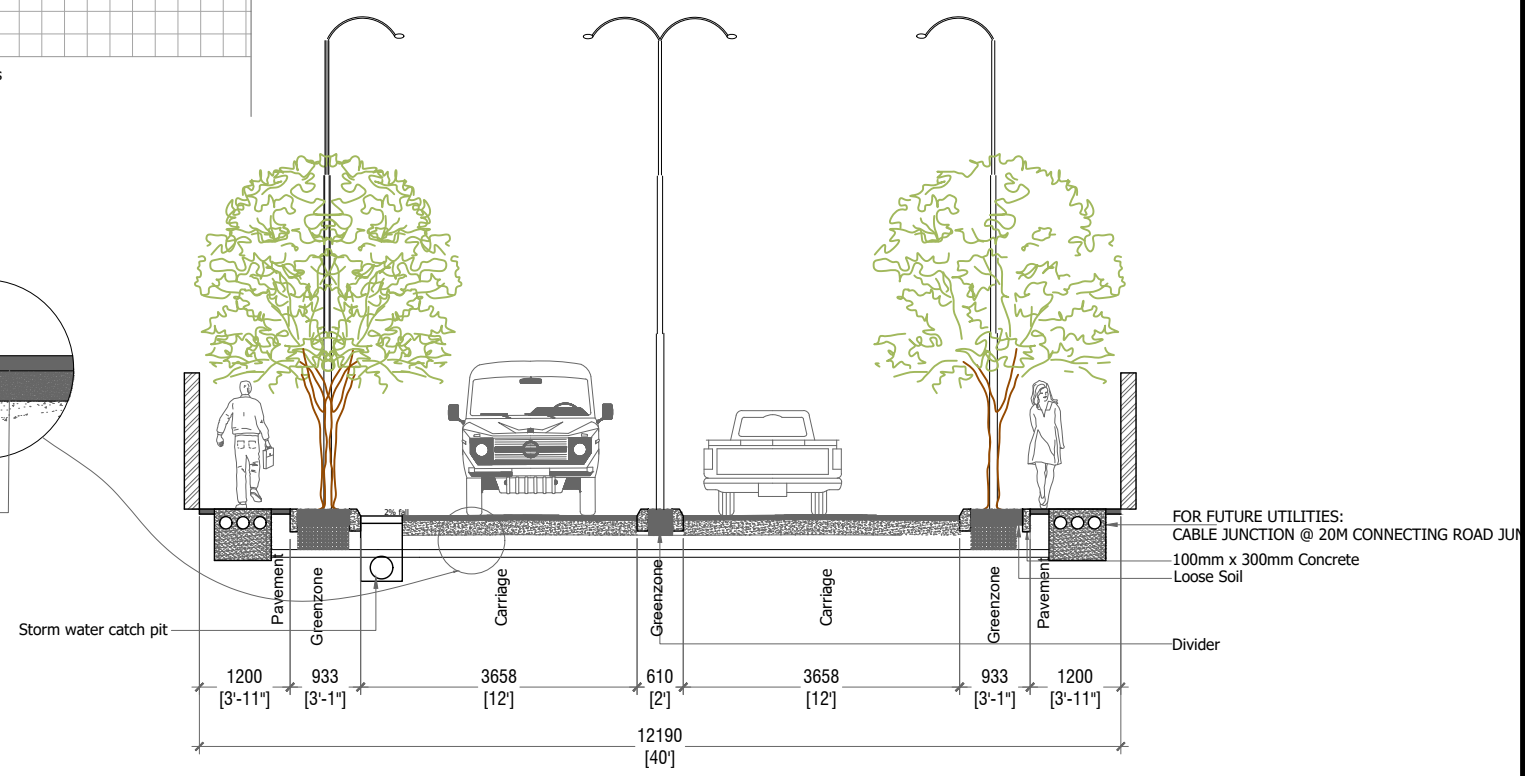
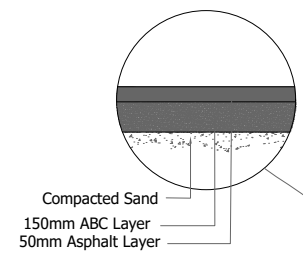


DRAWN BY: AHMED IRFAN
APPROVED BY: ALI ZAMEER
PROJECT NO: MIL-RC-2020-05
DRAWING NO: 06
SCALE: 1:100
DATE: MARCH 2021



KAN'BA RANI HIN'GUN - PLAN

SCALE 1:100



KAN'BA RANI HIN'GUN - SECTION

SCALE 1:100

PROJECT: DESIGN & BUILD OF SH.MILANDHOO MAJOR ROADS

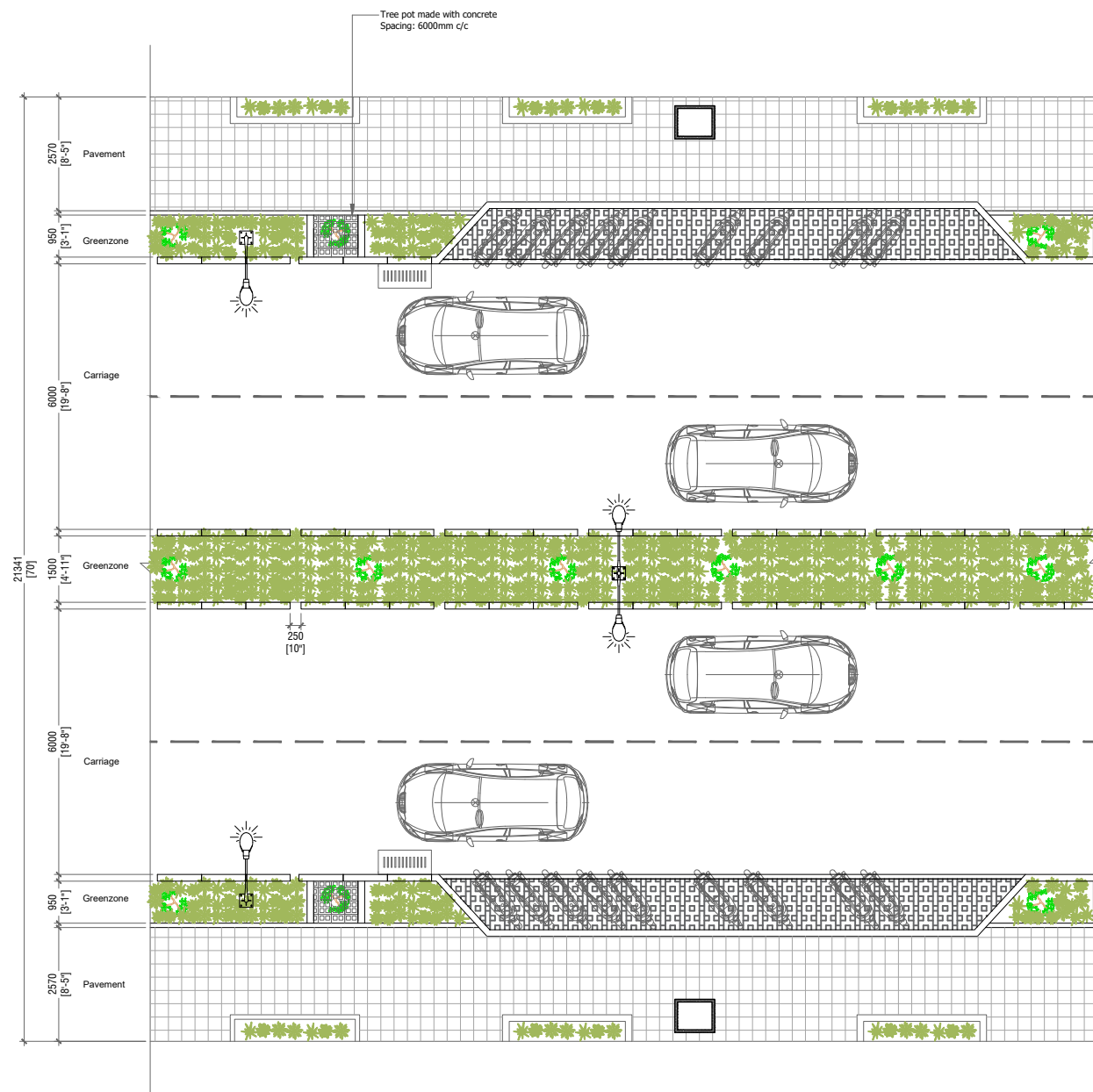
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 MINISTRY OF NATIONAL PLANNING & INFRASTRUCTURE
 AMEENEE MAGU,
 MALE'
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CONTRACTOR:
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 ORCHID MAGU,
 MAAFANNU, MALE'
 REPUBLIC OF MALDIVES

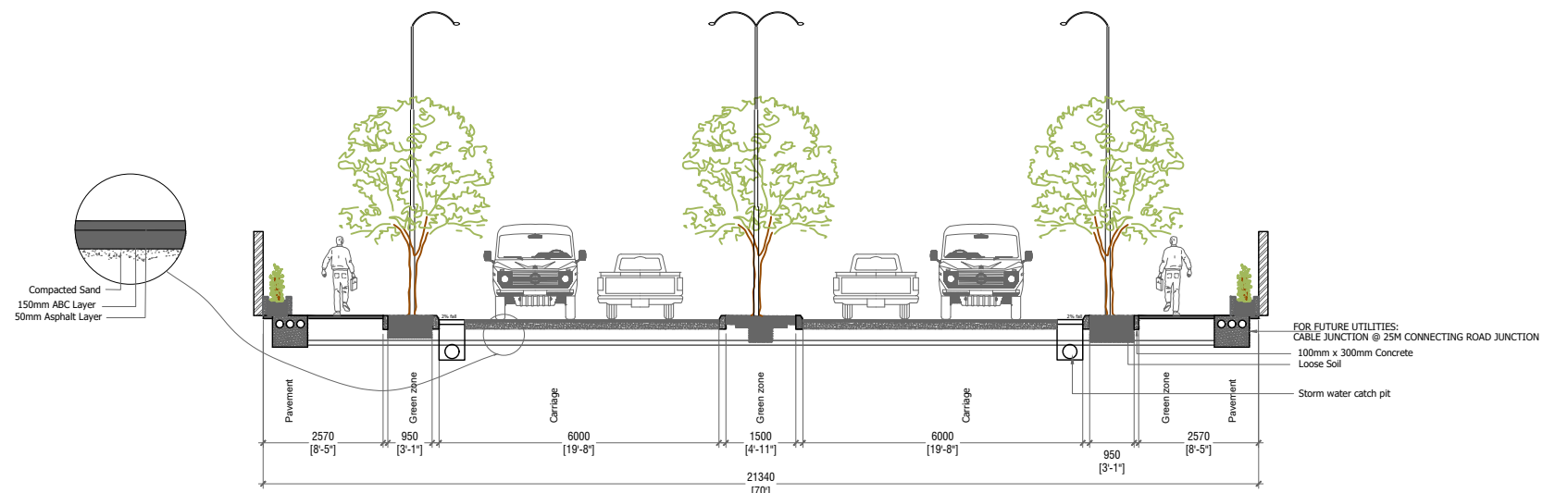
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KAN'BA RANI HIN'GUN



DRAWN BY: ISMAIL SHIYAZ
APPROVED BY: ALI ZAMEER
PROJECT NO: MIL-RC-2020-05
DRAWING NO: 07
SCALE: 1:100
DATE: AUGUST 2021



HURAVEE MAGU 1 - PLAN
SCALE 1:150



HURAVEE MAGU 1 - SECTION
SCALE 1:150

PROJECT: DESIGN & BUILD OF SH.MILANDHOO MAJOR ROADS

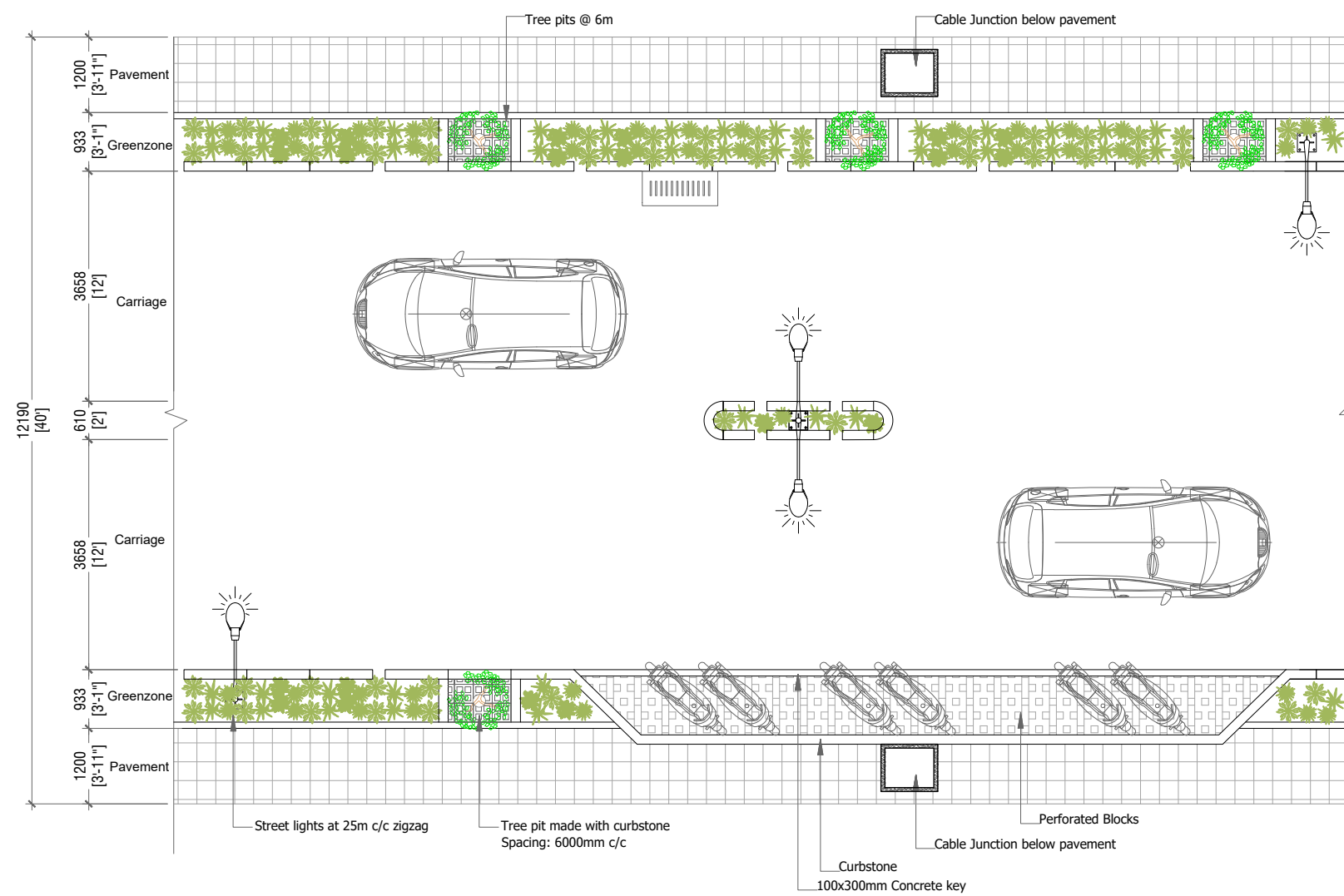
CLIENT:
MINISTRY OF NATIONAL PLANNING & INFRASTRUCTURE
AMEENEE MAGU,
MALE'
REPUBLIC OF MALDIVES

CONTRACTOR:
ROAD DEVELOPMENT CORPORATION LTD.
ORCHID MAGU,
MAAFANNU, MALE'
REPUBLIC OF MALDIVES

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HURAVEE MAGU 1

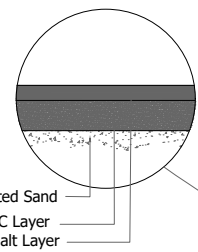


DRAWN BY: AHMED IRFAN
APPROVED BY: ALI ZAMEER
PROJECT NO: MIL-RC-2020-05
DRAWING NO: 09
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DATE: MARCH 2021

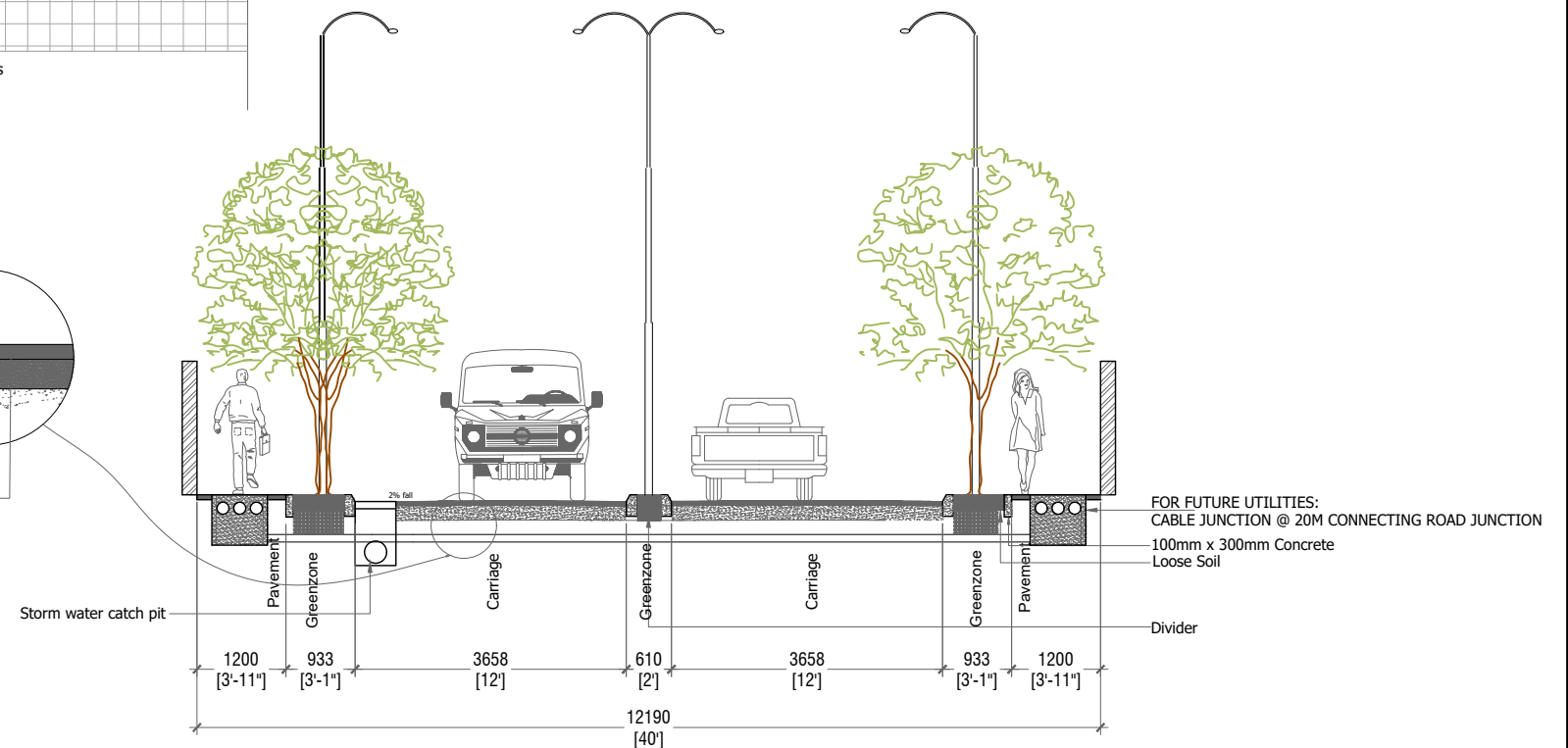


DHUNBURI MAGU - PLAN

SCALE 1:100



Compacted Sand
150mm ABC Layer
50mm Asphalt Layer



DHUNBURI MAGU - SECTION

SCALE 1:100

PROJECT: DESIGN & BUILD OF SH.MILANDHOO MAJOR ROADS

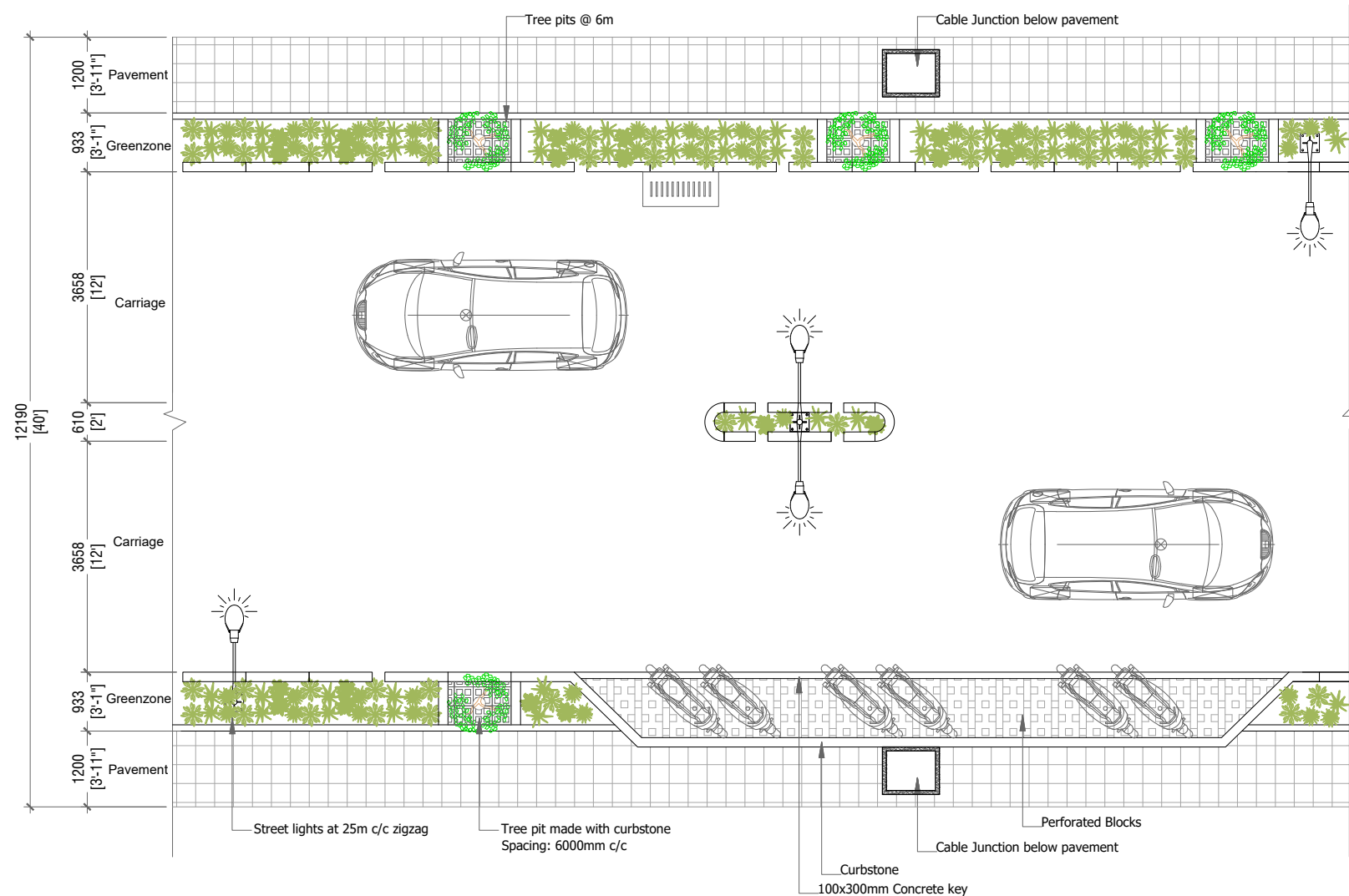
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AMEENEE MAGU,
MALE'
REPUBLIC OF MALDIVES

CONTRACTOR:
ROAD DEVELOPMENT CORPORATION LTD.
ORCHID MAGU,
MAAFANNU, MALE'
REPUBLIC OF MALDIVES

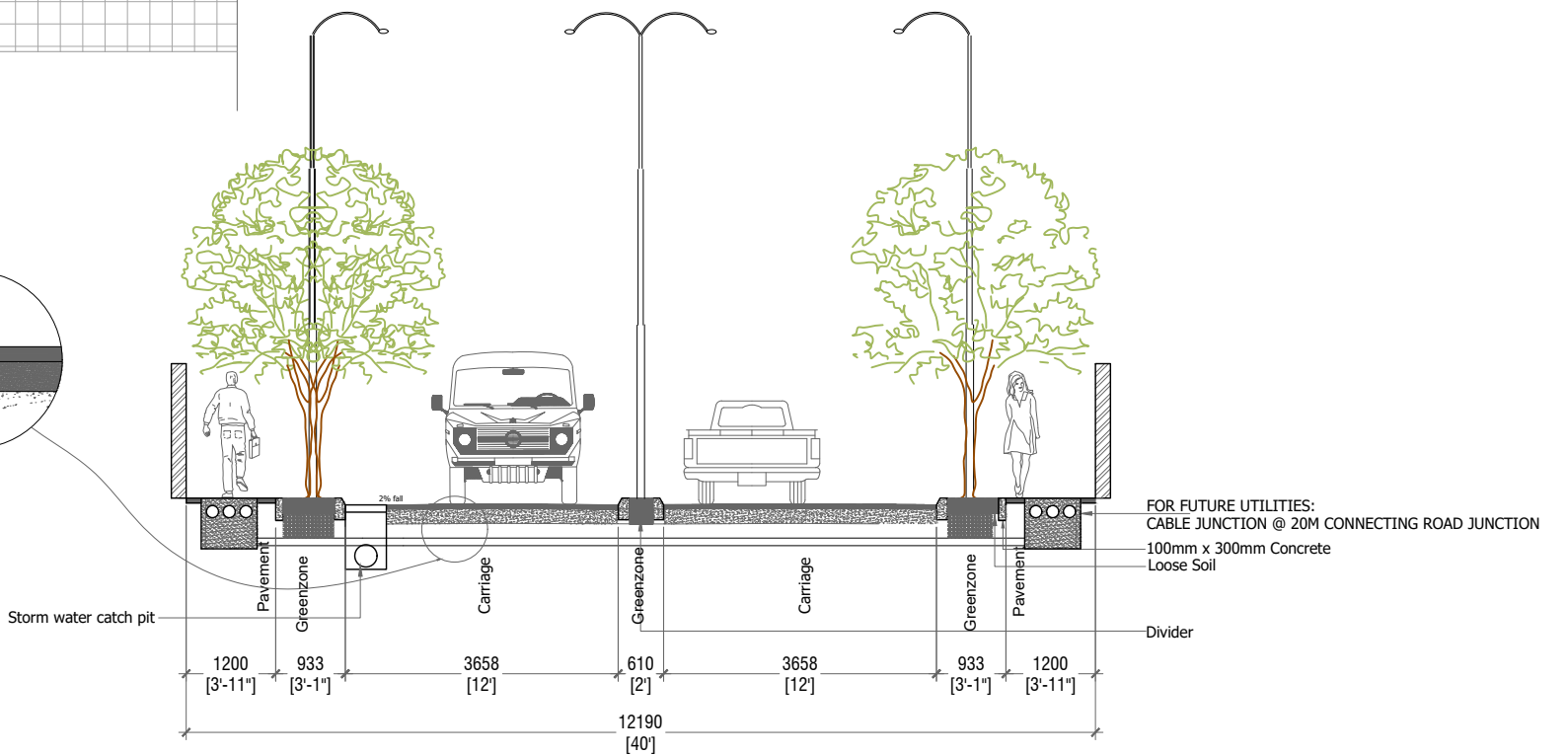
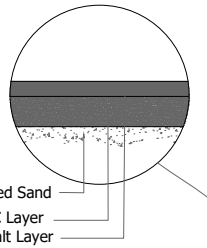
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DHUNBURI MAGU




DRAWN BY: ISMAIL SHIYAZ
APPROVED BY: ALI ZAMEER
PROJECT NO: MIL-RC-2020-05
DRAWING NO: 10
SCALE: 1:100
DATE: AUGUST 2021



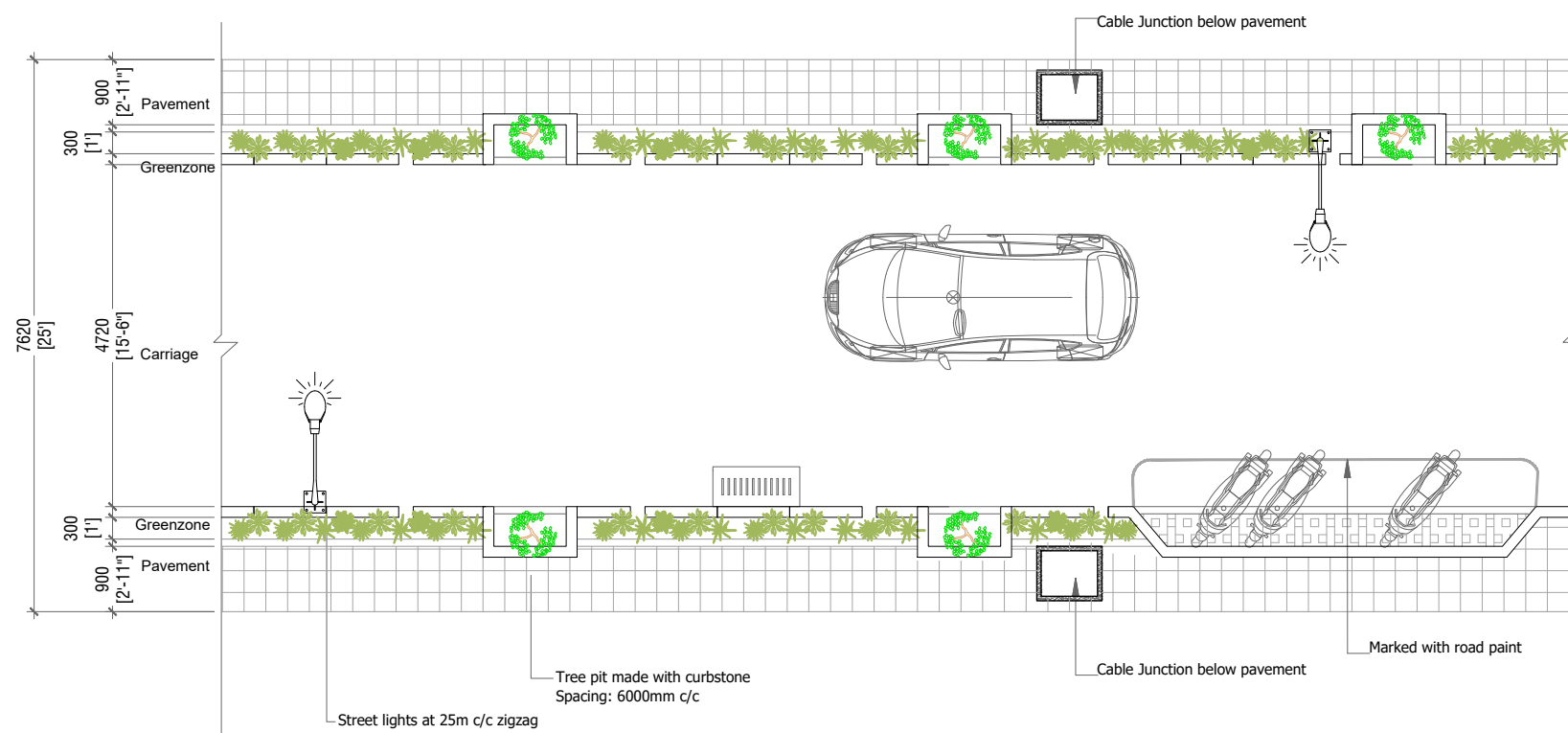
SAIMA GOALHI (40FT) - PLAN
SCALE 1:100



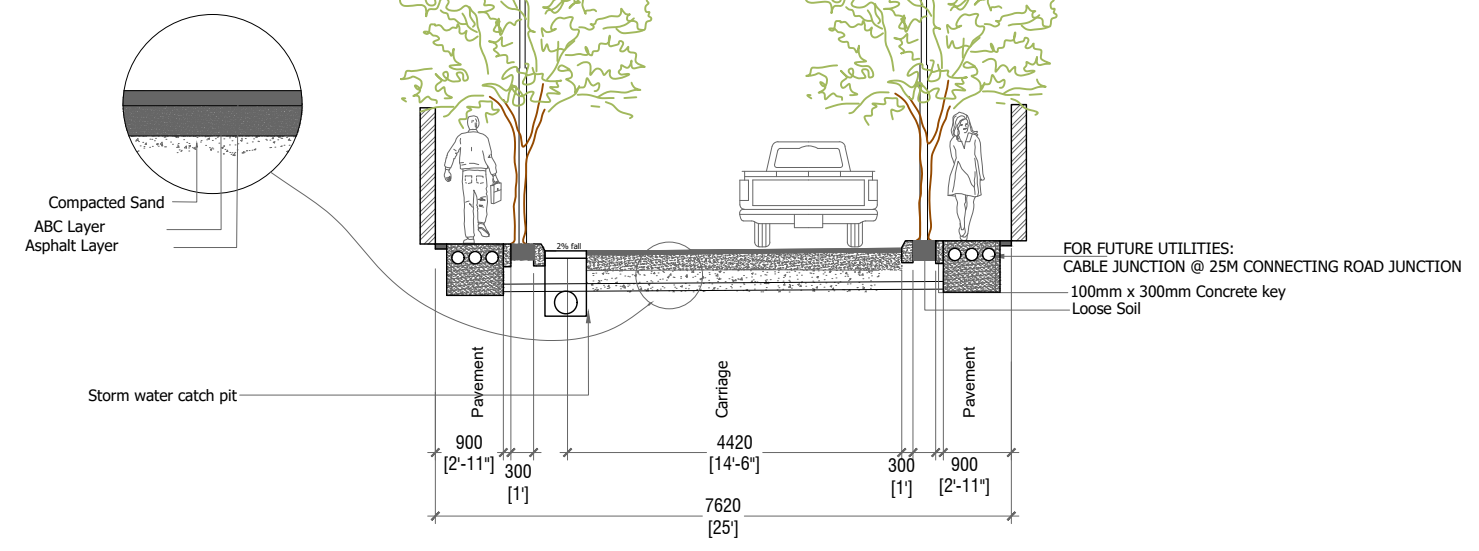
SAIMA GOALHI (40FT) - SECTION
SCALE 1:100

PROJECT: DESIGN & BUILD OF SH.MILANDHOO MAJOR ROADS			
CLIENT:	CONTRACTOR:	DRAWING TITLE:	DRAWN BY: ISMAIL SHIYAZ
MINISTRY OF NATIONAL PLANNING & INFRASTRUCTURE	ROAD DEVELOPMENT CORPORATION LTD.	SAIMA GOALHI (40FT)	APPROVED BY: ALI ZAMEER
AMEENEE MAGU, MALE' REPUBLIC OF MALDIVES	ORCHID MAGU, MAAFANNU, MALE' REPUBLIC OF MALDIVES		PROJECT NO: MIL-RC-2020-05
			DRAWING NO: 10
			SCALE: 1:100


Road name	Type	L.S		Carriage Way		R.S		Length(m)	Area	
		Footpath(mm)	Greenzone(mm)	Lane 1 (mm)	Lane 2 (mm)	Footpath(mm)	Greenzone(mm)		Footpath (sqm)	Carriageway (sqm)
Saima Goalhi	Single	900	300	4720	(4720) -	900	300	190.5	approx. 343	approx. 899.16



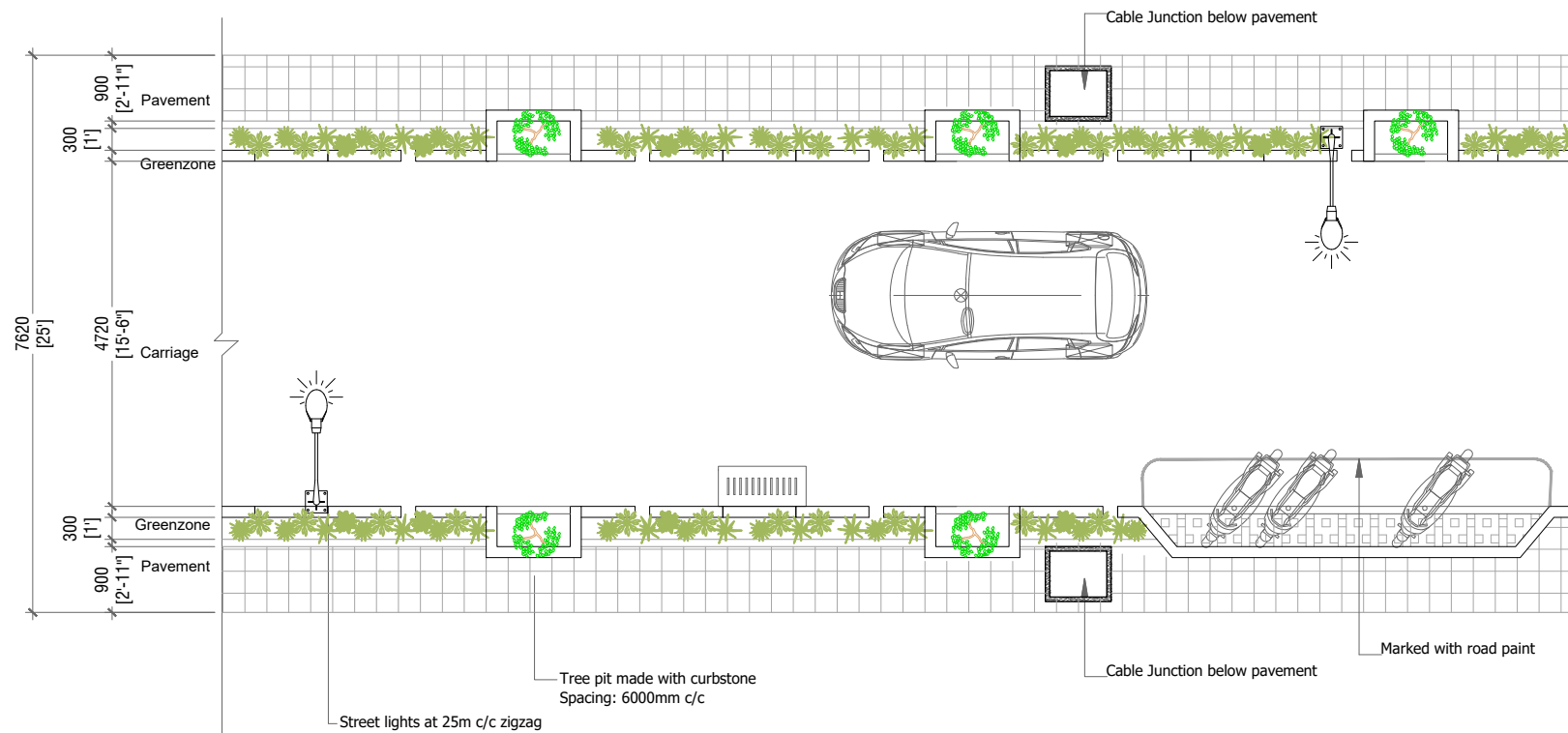
SAIMA GOALHI (25FT) - PLAN
SCALE 1:100



SAIMA GOALHI (25FT) - SECTION
SCALE 1:100

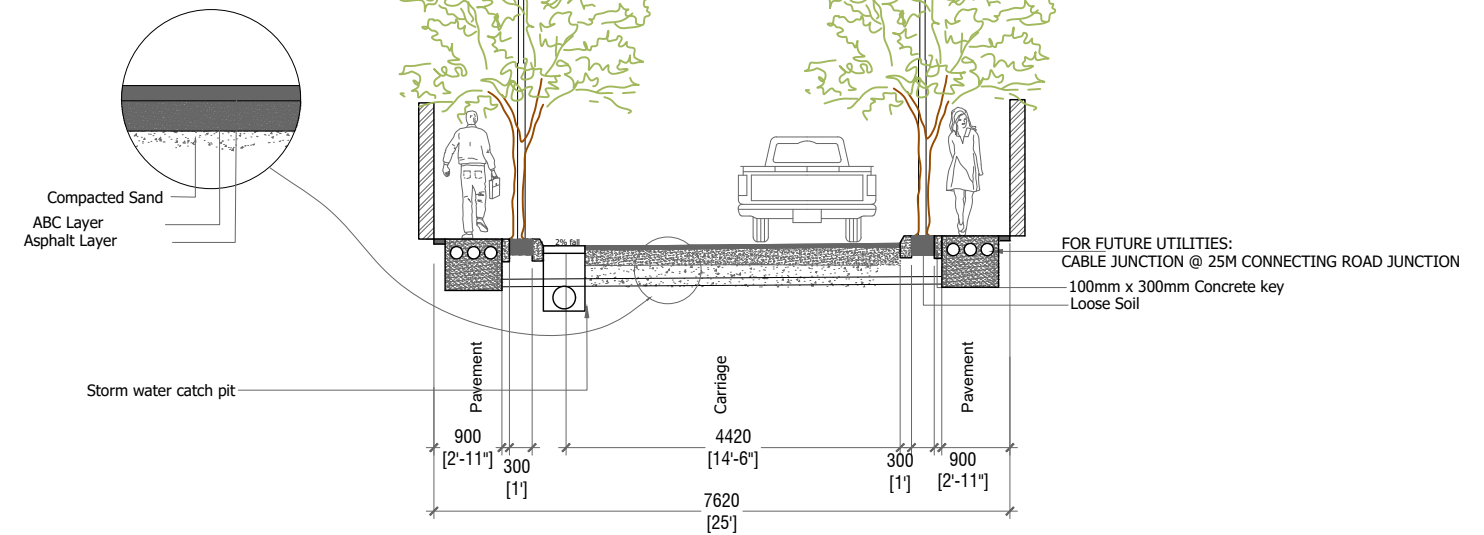
PROJECT: DESIGN & BUILD OF SH.MILANDHOO MAJOR ROADS			
CLIENT:	CONTRACTOR:	DRAWING TITLE:	DRAWN BY: ISMAIL SHIYAZ
MINISTRY OF NATIONAL PLANNING & INFRASTRUCTURE	ROAD DEVELOPMENT CORPORATION LTD.	SAIMA GOALHI (25FT) - REVISED CONCEPT	APPROVED BY: ALI ZAMEER
AMEENEE MAGU, MALE' REPUBLIC OF MALDIVES	ORCHID MAGU, MAAFANNU, MALE' REPUBLIC OF MALDIVES		PROJECT NO: MIL-RC-2020-05
			DRAWING NO: 02
			SCALE: 1:100

Road name	Type	L.S		Carriage Way		R.S		Length(m)	Area		
		Footpath(mm)	Greenzone(mm)	Lane 1 (mm)	Lane 2 (mm)	Footpath(mm)	Greenzone(mm)		Footpath (sqm)	Carriageway (sqm)	
Rehendhee Magu	Single	900	300	4720	(4720)	-	900	300	429.88	approx. 774	approx. 2029



REHENDHEE MAGU - PLAN

SCALE 1:100



REHENDHEE MAGU - SECTION

SCALE 1:100

PROJECT: DESIGN & BUILD OF SH.MILANDHOO MAJOR ROADS

CLIENT:
MINISTRY OF NATIONAL PLANNING & INFRASTRUCTURE
AMEENEE MAGU,
MALE'
REPUBLIC OF MALDIVES

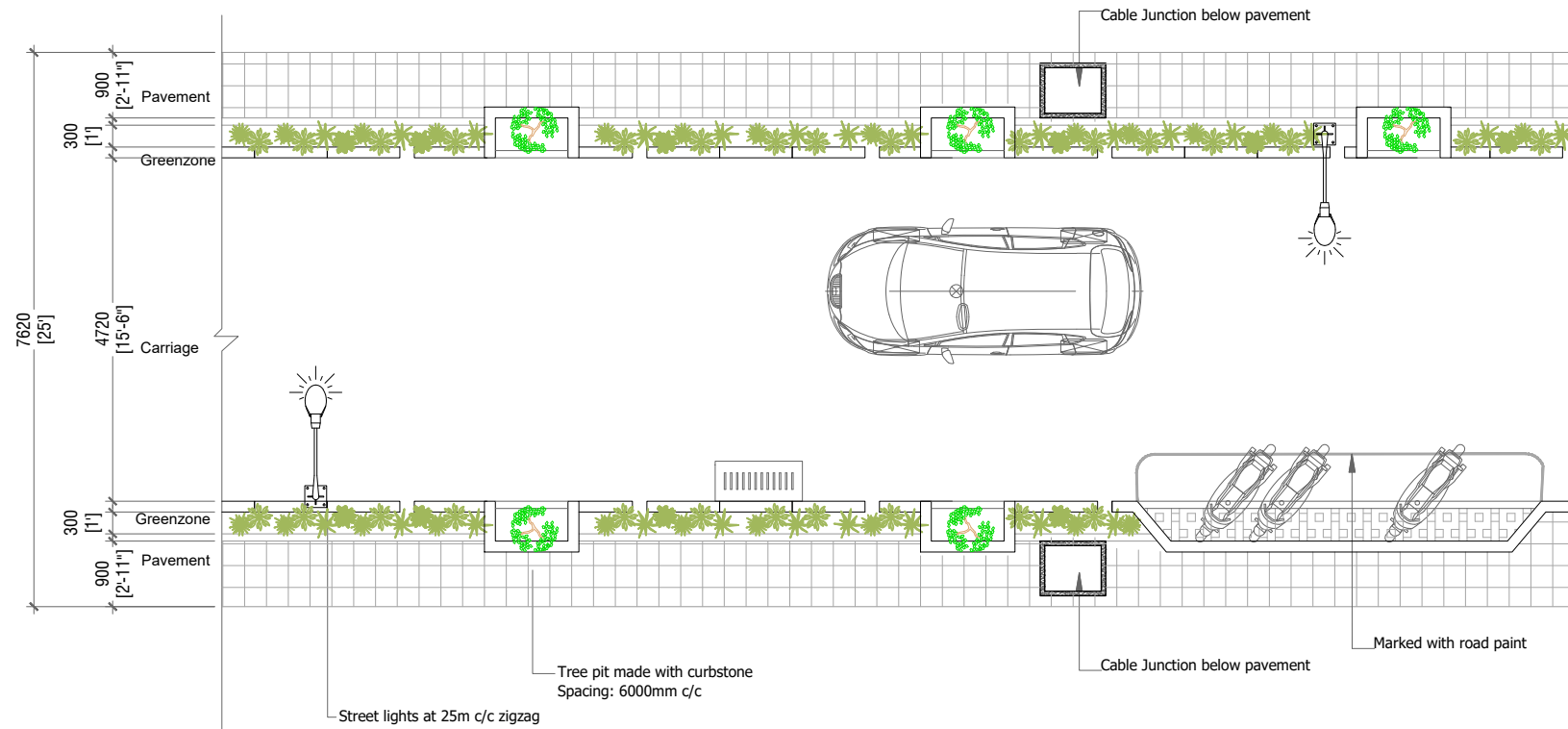
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MAAFANNU, MALE'
REPUBLIC OF MALDIVES

DRAWING TITLE:
**REHENDHEE MAGU -
REVISED CONCEPT**



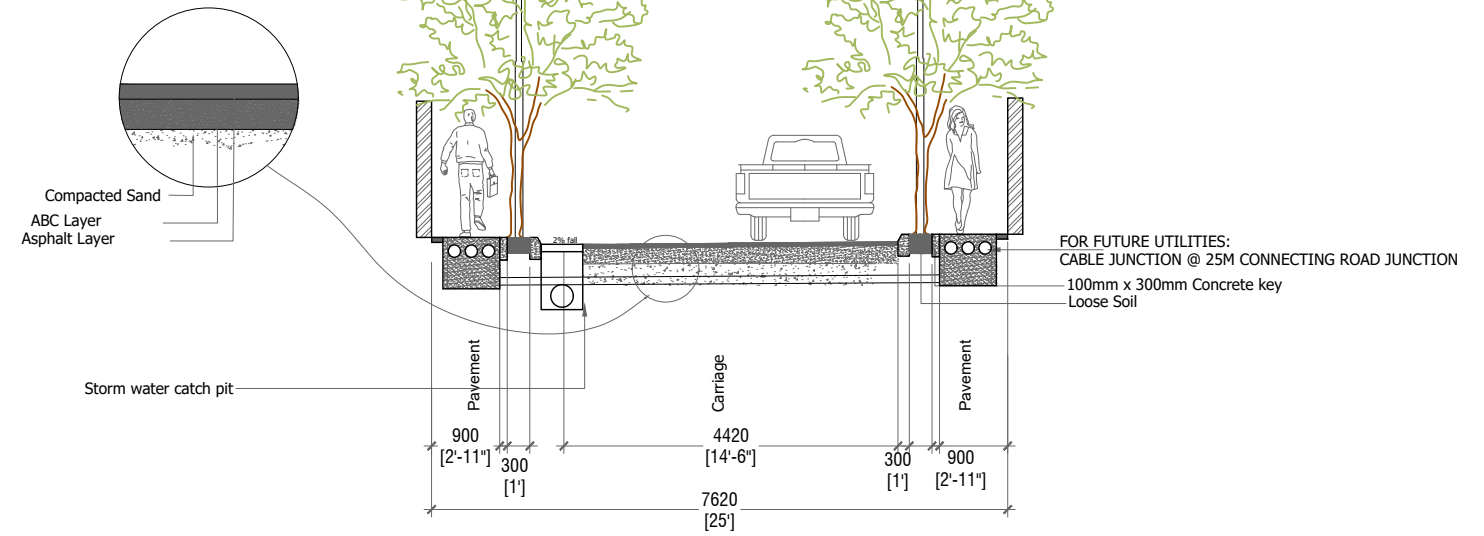
DRAWN BY: ISMAIL SHIYAZ
APPROVED BY: ALI ZAMEER
PROJECT NO: MIL-RC-2020-05
DRAWING NO: 01
SCALE: 1:100
DATE: FEB 2022

Road name	Type	L.S		Carriage Way		R.S		Length(m)	Area	
		Footpath(mm)	Greenzone(mm)	Lane 1 (mm)	Lane 2 (mm)	Footpath(mm)	Greenzone(mm)		Footpath (sqm)	Carriageway (sqm)
Naaz Goalhi	Single	900	300	4720	(4720) -	900	300	183	approx. 329.4	approx. 863.76



NAAZ GOALHI - PLAN

SCALE 1:100



NAAZ GOALHI - SECTION

SCALE 1:100

PROJECT: DESIGN & BUILD OF SH.MILANDHOO MAJOR ROADS

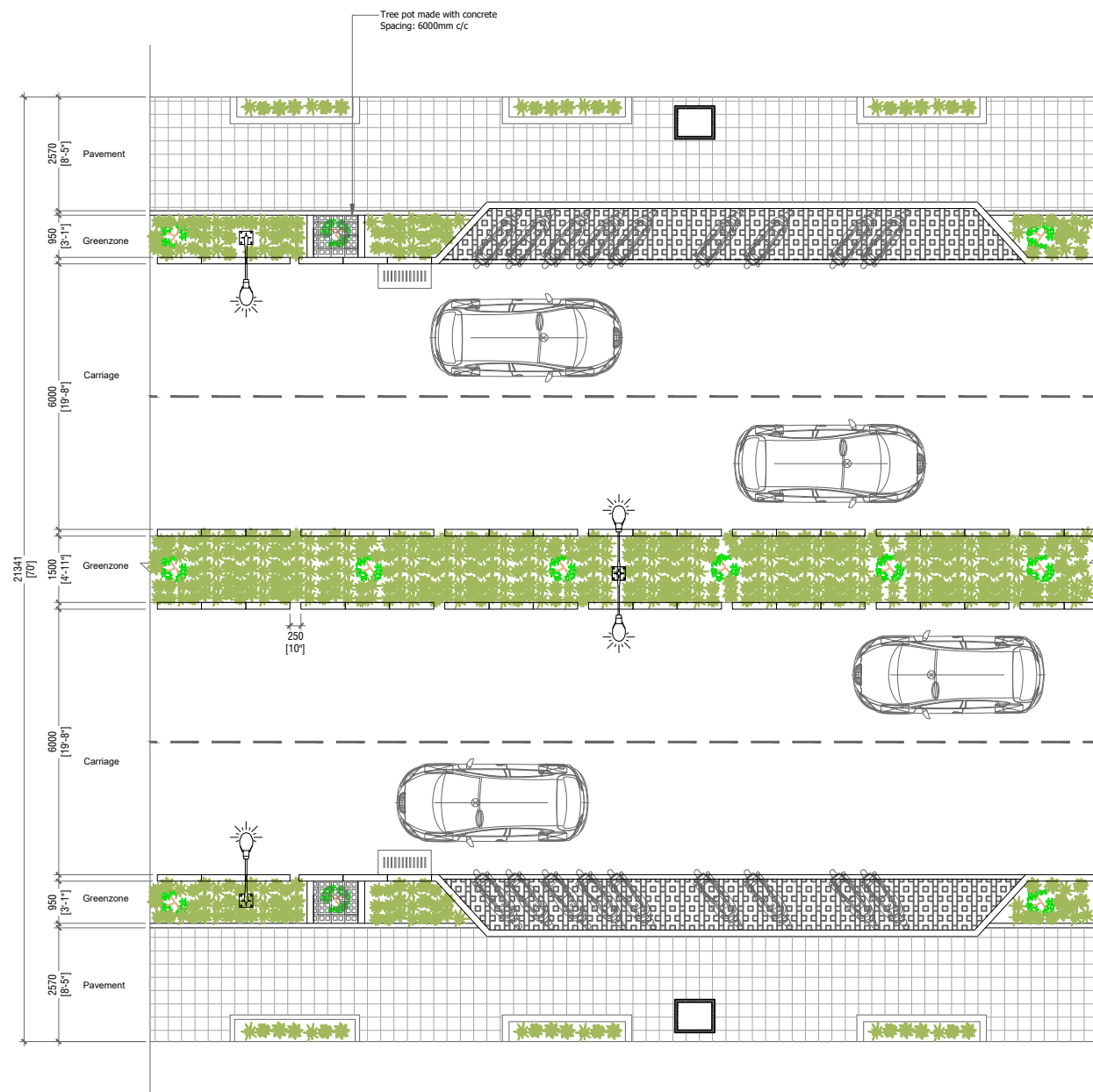
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 MINISTRY OF NATIONAL PLANNING & INFRASTRUCTURE
 AMEENEE MAGU,
 MALE'
 REPUBLIC OF MALDIVES

CONTRACTOR:
 ROAD DEVELOPMENT CORPORATION LTD.
 ORCHID MAGU,
 MAAFANNU, MALE'
 REPUBLIC OF MALDIVES

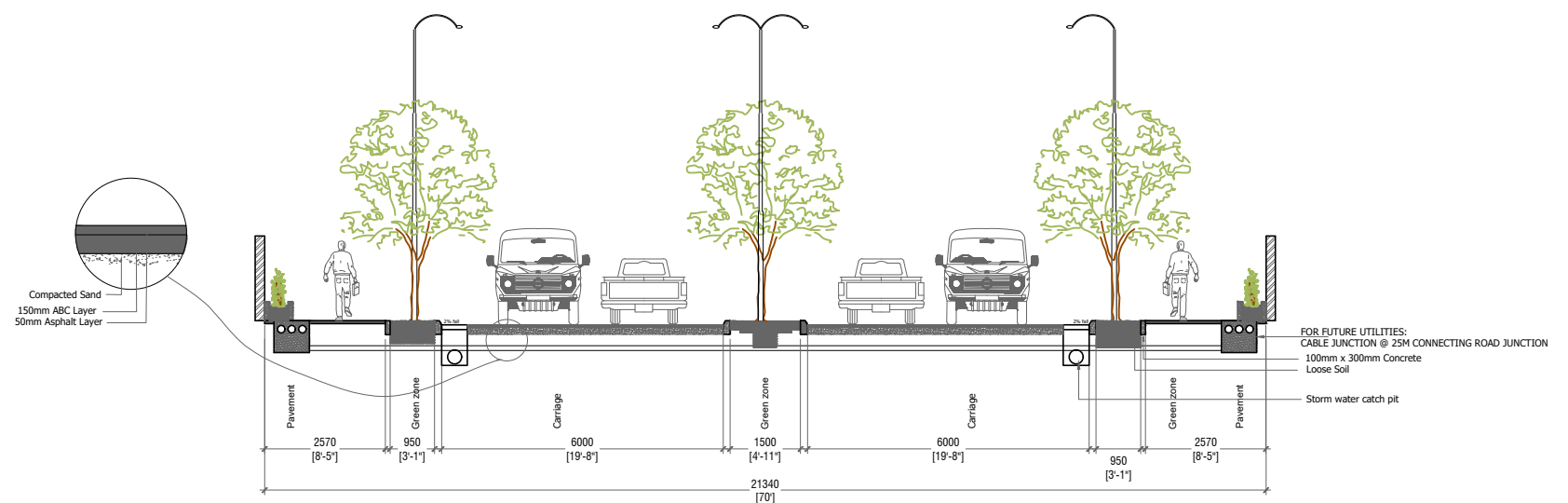
DRAWING TITLE:
**NAAZ GOALHI - REVISED
 CONCEPT**




DRAWN BY: ISMAIL SHIYAZ
APPROVED BY: ALI ZAMEER
PROJECT NO: MIL-RC-2020-05
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SCALE: 1:100
DATE: FEB 2022



HURAVEE MAGU 1 - PLAN
SCALE 1:150



HURAVEE MAGU 1 - SECTION
SCALE 1:150

PROJECT: DESIGN & BUILD OF SH.MILANDHOO MAJOR ROADS			
CLIENT:	CONTRACTOR:	DRAWING TITLE:	DRAWN BY: AHMED IRFAN
MINISTRY OF NATIONAL PLANNING & INFRASTRUCTURE	ROAD DEVELOPMENT CORPORATION LTD.	HURAVEE MAGU 1	APPROVED BY: ALI ZAMEER
AMEENEE MAGU, MALE' REPUBLIC OF MALDIVES	ORCHID MAGU, MAAFANNU, MALE' REPUBLIC OF MALDIVES		PROJECT NO: MIL-RC-2020-05
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