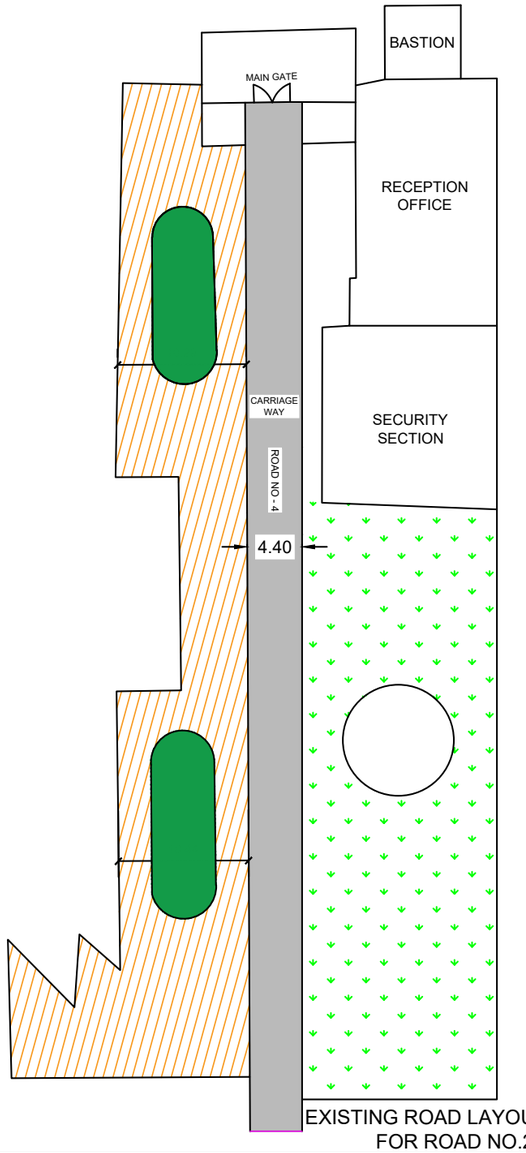
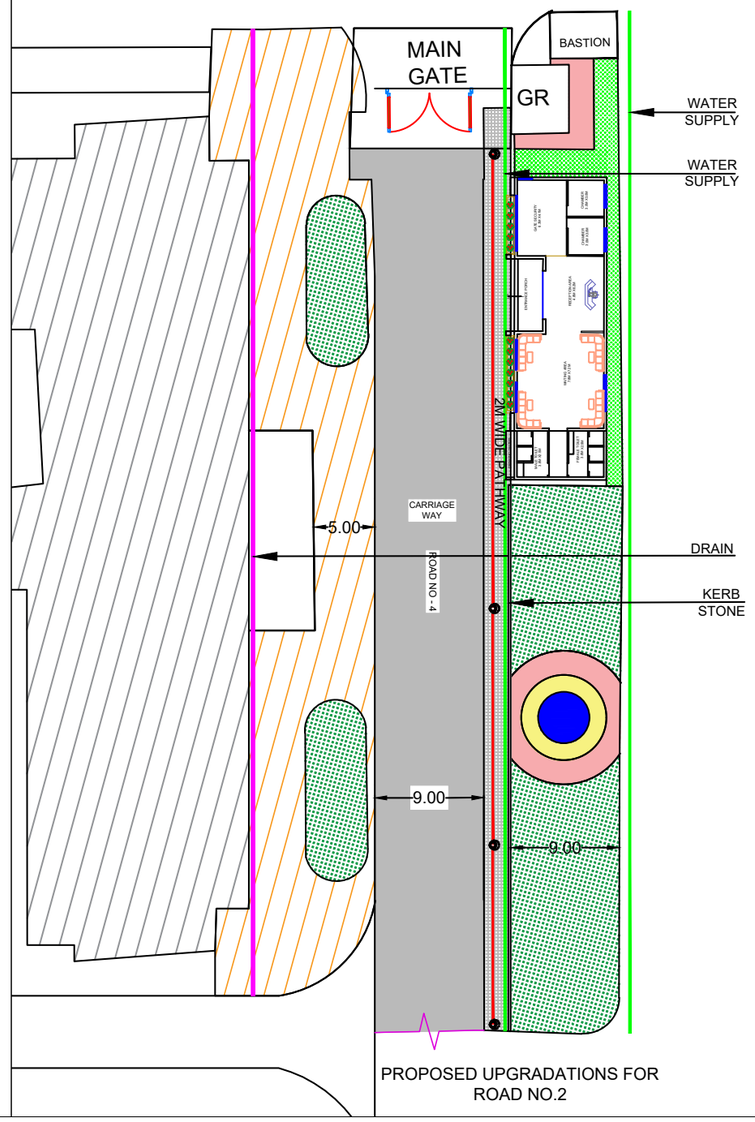


EXISTING ROAD LAYOUT PLAN FOR ROAD NO.2



PROPOSED UPGRADATIONS FOR ROAD NO.2

KEY PLAN :-

LEGEND	DESCRIPTION
	SEWER PIPELINE
	SEWER MANHOLE
	CARRIAGE WAY
	TREE
	PATHWAY
	SAUCER DRAIN
	CONCRETE
	KERB STONE

Road No. - 4

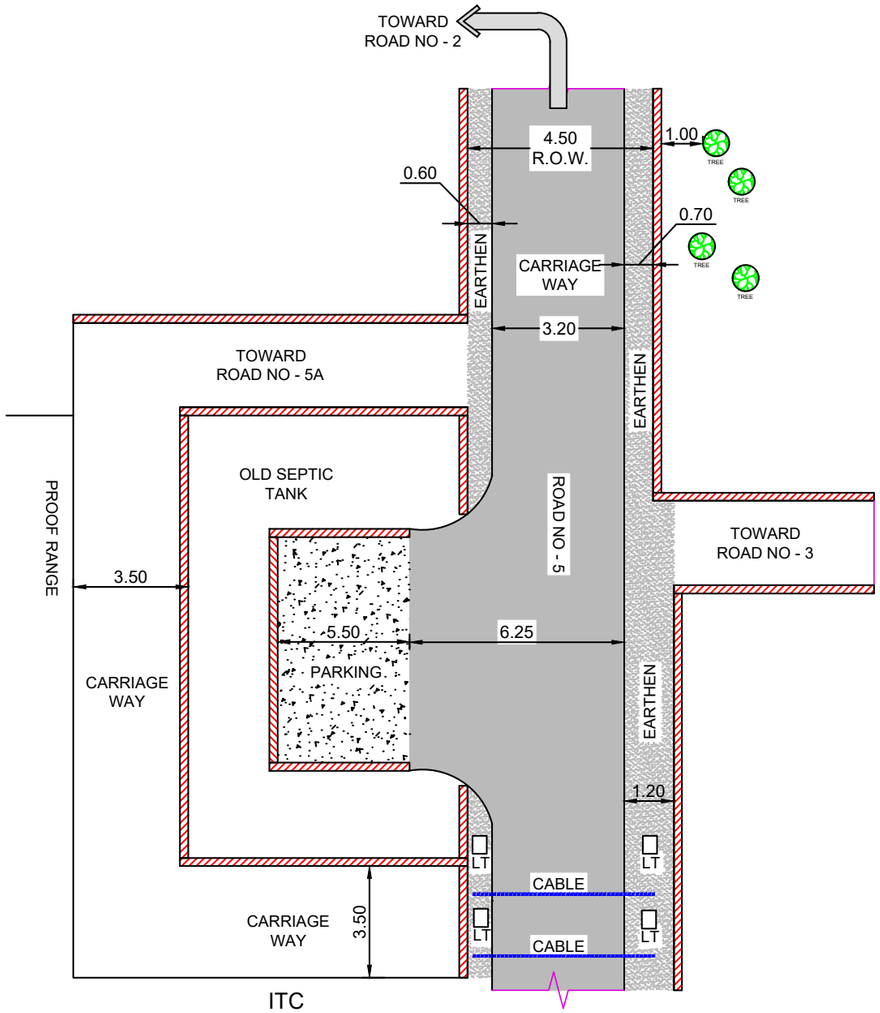
Road Upgradation		Services Upgradations	
Road Length (m)	100	Saucer Drain Laying	N/A
Existing Carriage Way (m)	4.5	Drain Section Laying	One Sided - 450 mm
Proposed Carriage Way (m)	9	Sewer Laying	One Sided - Type A
Kerb Stone	One Side	Water Supply Laying	Yes - One Sided
Pathway (m)	Proposed one Side (80mm)		

Remarks: As indicated in the existing plan, the Reception Office and Service Section Building will be renovated and merged into a single unit, following the proposed road layout. The existing pathway outside the Admin Block Building will remain unchanged, and the existing carriageway will be widened to a 9-meter-wide road. The existing fountain will be demolished and redeveloped as per the approved design.
Outside the renovated building, kerb stones are proposed after the pathway to separate the carriageway. Below This Pathway, Sewerage Network shall be laid & Stormwater drainage system with a 450mm section is proposed adjacent to the Admin Block.

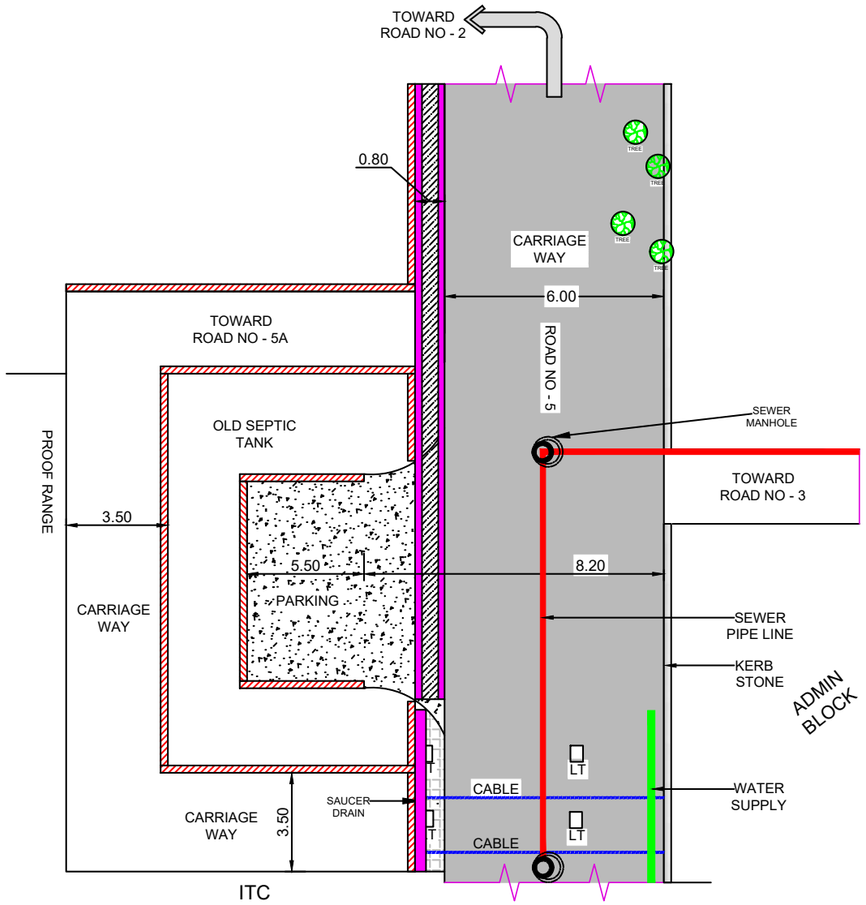
SUBMITTED BY
WAPCOS
ROPEWAYS DIVISION, 2ND FLOOR, PLOT NO.- 62, INSTITUTIONAL AREA, SECTOR-18, GURGAON – 122015 (HARYANA)
PHONE: 0124-2977225
EMAIL: ROPEWAYS@WAPCOS.CO.IN

CLIENT	ARMOURED VEHICLES NIGAM LIMITED A GOVERNMENT OF INDIA ENTERPRISE, MINISTRY OF DEFENCE
PROJECT	COMPREHENSIVE UPGRADATION OF ROADS, PATHWAYS, & LANDSCAPING AT MTPF-AVNL AMBERNATH, MAHARASHTRA
DRAWING	TYPICAL LAYOUT PLAN OF EXISTING ROAD & PROPOSED UPGRADATIONS: ROAD-04

SCALE NTS	DATE 23-01-2025	
DRAWN NITESH JAIN	CHECKED AJAY RATHORE	APPROVED
DRG. NO : RD/MH/AMBRT/06		REVISIONS 0

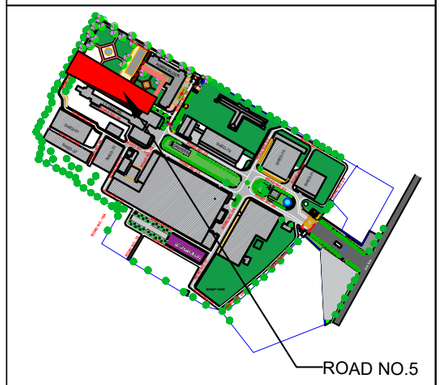


EXISTING ROAD LAYOUT PLAN
FOR ROAD NO.5



PROPOSED UPGRADATIONS FOR
ROAD NO.5

KEY PLAN :-



LEGEND	DESCRIPTION
	SEWER PIPELINE
	SEWER MANHOLE
	CARRIAGE WAY
	TREE
	WATER SUPPLY
	SAUCER DRAIN
	CONCRETE
	BOUNDARY WALL
	KERB STONE
	CABLE
	LT

Road No. - 5

Road Upgradation	
Road Length (m)	187
Existing Carriage Way (m)	3
Proposed Carriage Way (m)	6
Kerb Stone	One Side
Pathway (m)	One Sided Upto Parking (80 mm)

Services Upgradations	
Saucer Drain Laying	One Side - From Road no.4 to Parking
Drain Section Laying	One Sided - 450 mm with Perforated Cover
Sewer Laying	Yes - Type B - center of the Road
Water Supply Laying	Yes - One Sided

Remarks:

As indicated in the drawing, the existing road has a 3-meter carriageway. Due to its proximity to the Admin Block and the need for parking area access, this road requires widening. The proposed carriageway width is 6 meters, along with a 1.5-meter-wide pathway. For this purpose, the existing boundary of the Admin Block Building will need to be demolished, and road widening is proposed, which may result in the cutting down of some trees.

Additionally, a stormwater drainage system with a 450mm section with perforated covers is proposed.

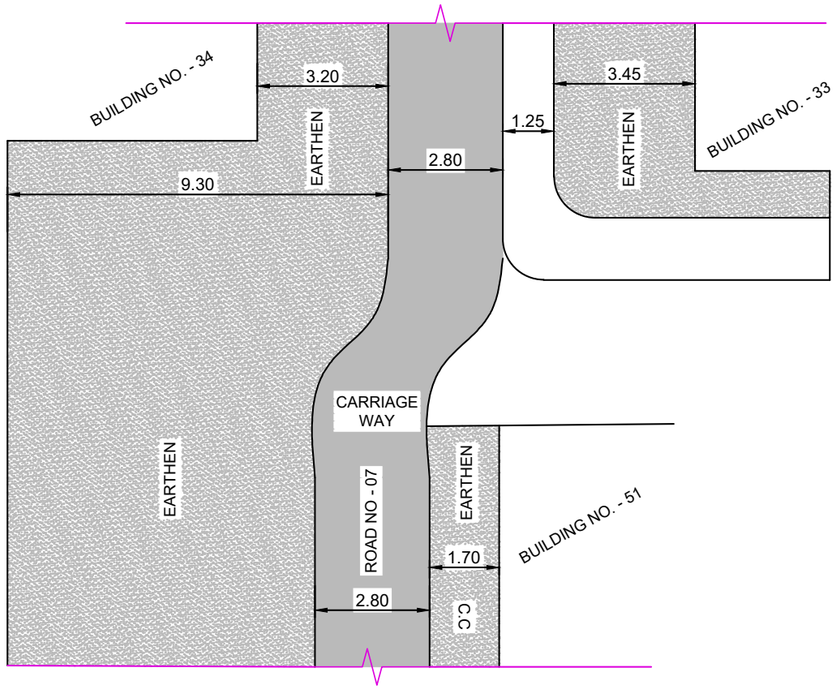
A sewerage network is also present along this road, with Type B manholes. Due to space constraints, the sewerage network will be routed through the center of the road.

At the end of the pathway, there is a provision for kerb stones.

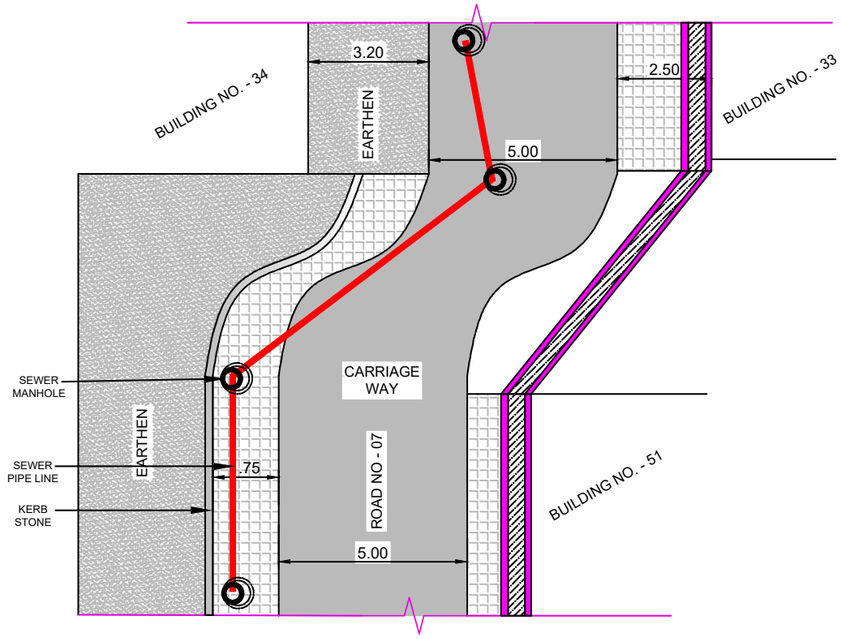
SUBMITTED BY
WAPCOS
ROPEWAYS DIVISION, 2ND FLOOR, PLOT NO.- 62, INSTITUTIONAL AREA, SECTOR-18, GURGAON – 122015 (HARYANA)
PHONE: 0124-2977225
EMAIL: ROPEWAYS@WAPCOS.CO.IN

CLIENT	ARMOURED VEHICLES NIGAM LIMITED A GOVERNMENT OF INDIA ENTERPRISE, MINISTRY OF DEFENCE
PROJECT	COMPREHENSIVE UPGRADATION OF ROADS, PATHWAYS, & LANDSCAPING AT MTPF-AVNL AMBERNATH, MAHARASHTRA
DRAWING	TYPICAL LAYOUT PLAN OF EXISTING ROAD & PROPOSED UPGRADATIONS: ROAD-05

SCALE NTS	DATE 23-01-2025	
DRAWN NITESH JAIN	CHECKED AJAY RATHORE	APPROVED
DRG. NO : RD/MH/AMBRT/07		REVISIONS 0



EXISTING ROAD LAYOUT PLAN
FOR ROAD NO.7



PROPOSED UPGRADATIONS FOR
ROAD NO.7

KEY PLAN :-

LEGEND	DESCRIPTION
	SEWER PIPELINE
	SEWER MANHOLE
	CARRIAGE WAY
	PATHWAY
	EARTHEN
	STORM WATER DRAIN

Road No. - 7

Road Upgradation	
Road Length (m)	130
Existing Carriage Way (m)	2.8
Proposed Carriage Way (m)	5
Kerb Stone	One Side
Pathway (m)	Both Side (60 mm)

Services Upgradations	
Saucer Drain Laying	N/A
Drain Section Laying	450mm, Along Building 33 & Building 51
Sewer Laying	One Sided, Opposite of Drain Laying - Type B & C
Water Supply Laying	One Sided, Along Building 33

Remarks :

As indicated in the drawing, the existing carriageway of the road is 2.8 meters, and the proposed carriageway is 5 meters. The road widening will be carried out adjacent to Building 33 and Building 51, as shown in the road plan.

Widening of the Road:

Near Building 33, there is a proposal for road widening of 2.2 meters, resulting in a total carriageway width of 5 meters. Due to the irregular longitudinal shape of the road, after Building No. 34, the widening proposal shifts to the side of Building No. 34, where ample space is available.

Pathway, Drainage & Sewerage:

As indicated in the drawing, drainage is laid along Buildings 33 and 51 at a level 0.3 meters above the existing road level (outside the traffic movement area). The proposed drainage section is 0.45 meters. Adjacent to the drainage section, and up to the carriageway, a pathway approximately 1.75 meters wide is proposed.

Near Building 51, a space of 1.7 meters is available. Out of this, 0.75 meters will be utilized for drainage, while the remaining 0.95 meters will be used for a pathway. Road widening is not considered on this side due to space constraints. Instead, the widening is proposed on the opposite side of the road (after Building No. 34), where approximately 8 to 9 meters of space is available.

On this side, a road widening of 2.2 meters is proposed, resulting in an effective carriageway width of 5 meters. Beyond the widened carriageway, a 1.75-meter-wide pathway is proposed, followed by kerb stones.

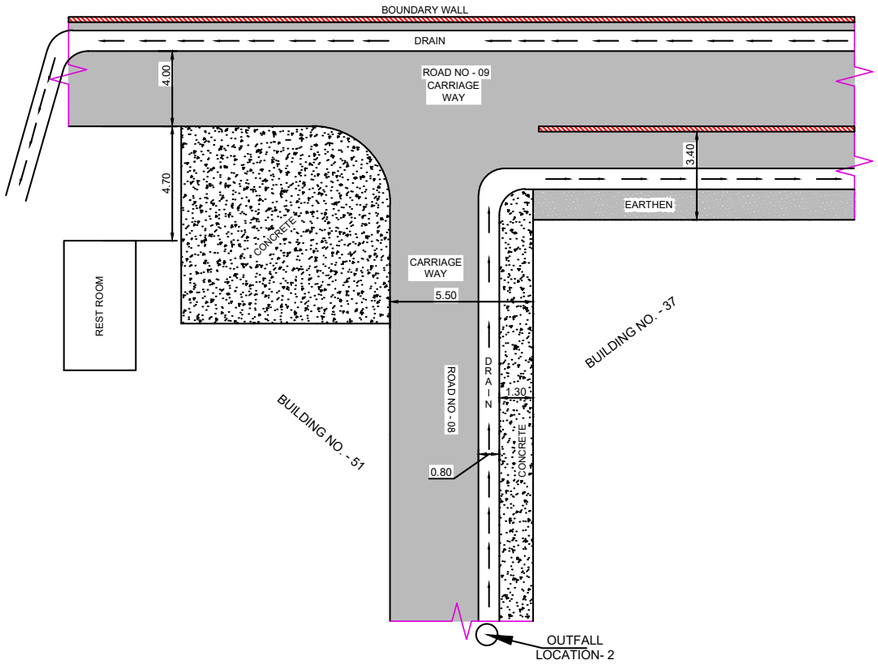
Sewerage Network:

The type of manholes running along this road are Type B and Type C, which require 3 to 4 meters of space during execution. Between Building No. 33 and Building No. 34, the sewerage network will be constructed in the middle of the road. After this stretch, near Building No. 51, the manholes will be placed on the opposite side of the road.

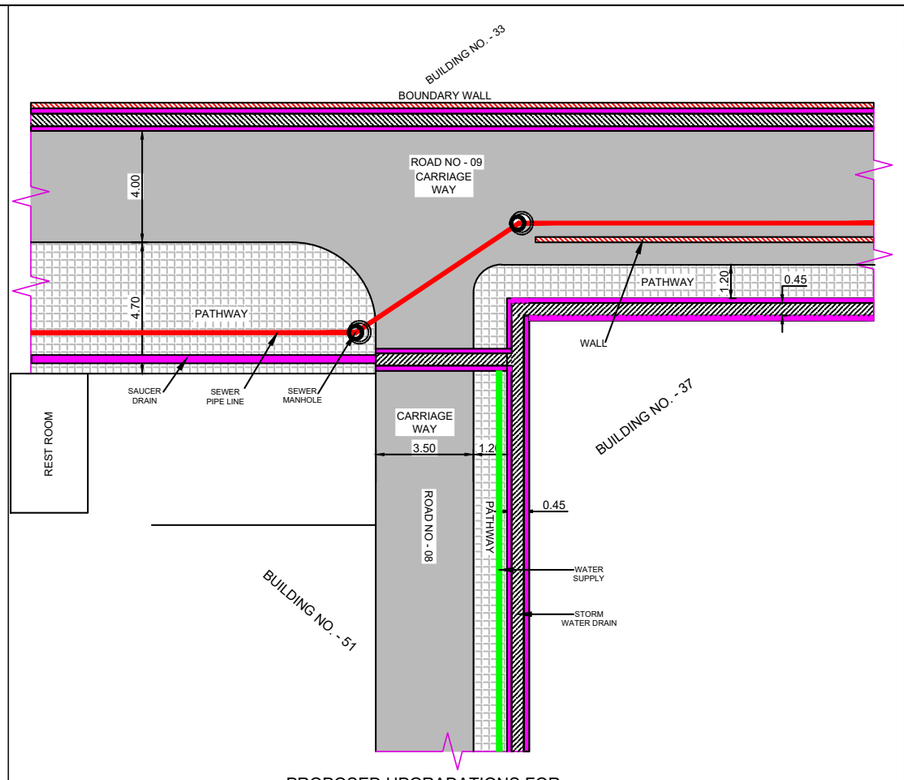
SUBMITTED BY
WAPCOS
ROPEWAYS DIVISION, 2ND FLOOR, PLOT NO.- 62, INSTITUTIONAL AREA, SECTOR-18, GURGAON – 122015 (HARYANA)
PHONE: 0124-2977225
EMAIL: ROPEWAYS@WAPCOS.CO.IN

CLIENT	ARMOURED VEHICLES NIGAM LIMITED A GOVERNMENT OF INDIA ENTERPRISE, MINISTRY OF DEFENCE
PROJECT	COMPREHENSIVE UPGRADATION OF ROADS, PATHWAYS, & LANDSCAPING AT MTPF-AVNL AMBERNATH, MAHARASHTRA
DRAWING	TYPICAL LAYOUT PLAN OF EXISTING ROAD & PROPOSED UPGRADATIONS: ROAD-07

SCALE NTS	DATE 23-01-2025	
DRAWN NITESH JAIN	CHECKED AJAY RATHORE	APPROVED
DRG. NO : RD/MH/AMBRT/08		REVISIONS 0



EXISTING ROAD LAYOUT PLAN
FOR ROAD NO.8 & 9



PROPOSED UPGRADATIONS FOR
ROAD NO.8 & 9

KEY PLAN :-

LEGEND	DESCRIPTION
	SEWER PIPELINE
	SEWER MANHOLE
	CARRIAGE WAY
	PATHWAY
	BOUNDARY WALL
	STORM WATER DRAIN

Road No. - 8 & 9

Road Upgradation			Services Upgradations	
Road Length (m)	88 & 60		Saucer Drain Laying	One Side
Existing Carriage Way (m)	3.5 & 4.0		Drain Section Laying	450mm
Proposed Carriage Way (m)	3.5 & 4.0		Sewer Laying	Type C
Kerb Stone	N/A		Water Supply Laying	Yes
Pathway (m)	One Side (60 mm)			

Remarks :

Road No. 8:

In Road No. 8, the space available between Building 51 and Building 37 is 5.5 meters. The existing drainage, marked at 0.8 meters, will be dismantled, and a new drainage system is proposed adjacent to Building No. 37. Following this, a 1.2-meter-wide pathway is proposed, and the remaining 3.5 meters is designated as the carriageway. The proposed water supply network will be laid below the pathway. There is no sewerage network planned for this road.

Road No. 9:

In Road No. 9, the existing carriageway is 4 meters wide. Along this road, there is a drainage system of 0.7 meters in width, and PCC (Plain Cement Concrete) of 4.7 meters is present. A proposed drainage network with a 0.45-meter section is planned on the side of Building No. 3, extending toward the outfall location. On this side of the road, the water supply network is also proposed to be laid.

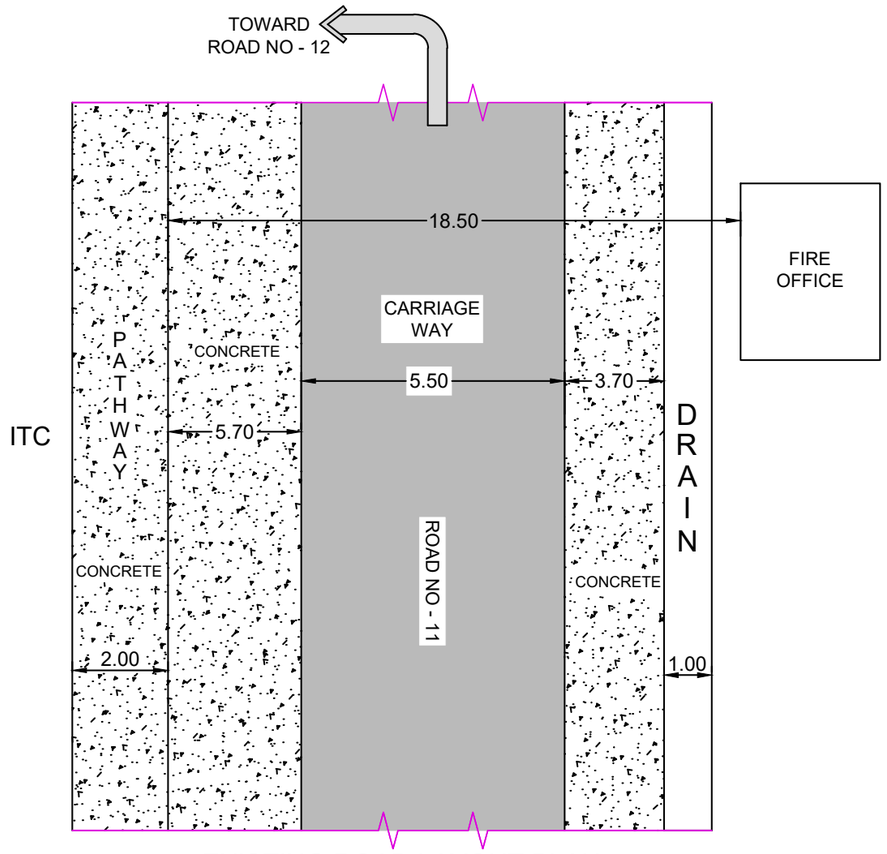
On the opposite side of the road, a sewerage network is planned. As per the Design results, The manholes in this section are Type C, which require a diameter of at least 4.0 meters during execution. It is proposed to execute the sewer network in Road No. 9 at the middle of the road between Building 33 and Building 37. However, in the stretch between Building 33 and Building 51, the sewer network Should be executed near Building No. 51.

After the execution of the sewerage network, a pathway with an approximate width of 4.7 meters is proposed in this stretch. At the end of this pathway, a saucer drain is proposed.

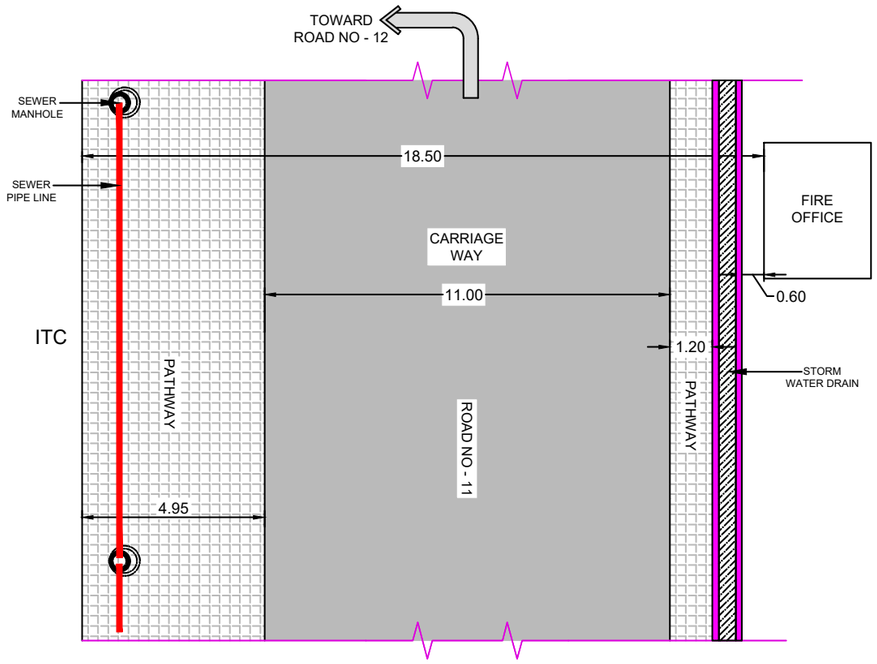
SUBMITTED BY
WAPCOS
ROPEWAYS DIVISION, 2ND FLOOR, PLOT NO.- 62, INSTITUTIONAL AREA, SECTOR-18, GURGAON – 122015 (HARYANA)
PHONE: 0124-2977225
EMAIL: ROPEWAYS@WAPCOS.CO.IN

CLIENT	ARMOURED VEHICLES NIGAM LIMITED A GOVERNMENT OF INDIA ENTERPRISE, MINISTRY OF DEFENCE
PROJECT	COMPREHENSIVE UPGRADATION OF ROADS, PATHWAYS, & LANDSCAPING AT MTPF-AVNL AMBERNATH, MAHARASHTRA
DRAWING	TYPICAL LAYOUT PLAN OF EXISTING ROAD & PROPOSED UPGRADATIONS: ROAD-08 & 09

SCALE NTS	DATE 23-01-2025	
DRAWN NITESH JAIN	CHECKED AJAY RATHORE	APPROVED
DRG. NO : RD/MH/AMBRT/09		REVISIONS 0



EXISTING ROAD LAYOUT PLAN
FOR ROAD NO.11



PROPOSED UPGRADATIONS FOR
ROAD NO.11

KEY PLAN :-

LEGEND	DESCRIPTION
	SEWER PIPELINE
	SEWER MANHOLE
	CARRIAGE WAY
	PATHWAY
	STORM WATER DRAIN

Road No. - 11

Road Upgradation	
Road Length (m)	48
Existing Carriage Way (m)	5.5
Proposed Carriage Way (m)	11
Pathway (m)	Both Side (80 mm)
Kerb Stone	N/A

Services Upgradations	
Saucer Drain Laying	N/A
Drain Section Laying	450
Sewer Laying	Yes - Type A
Water Supply Laying	Yes - Crossing

Remarks :
While moving toward Road No. 12, In the Left Side, the existing road layout consists of a 2.0-meter-wide pathway, followed by 5.70 meters of PCC works and a 5.5-meter-wide carriageway. On the left side of the carriageway, there is a CC work patch with a width of 3.7 meters. Beyond this CC patch lies the existing drainage network.

Proposed Upgradation:

Sewerage Network:
A sewerage network with Type A manholes is proposed to be laid beneath the existing pathway near the ITC building.
The existing drainage network will be dismantled, and a new drainage section with a width of 0.45 meters is proposed.

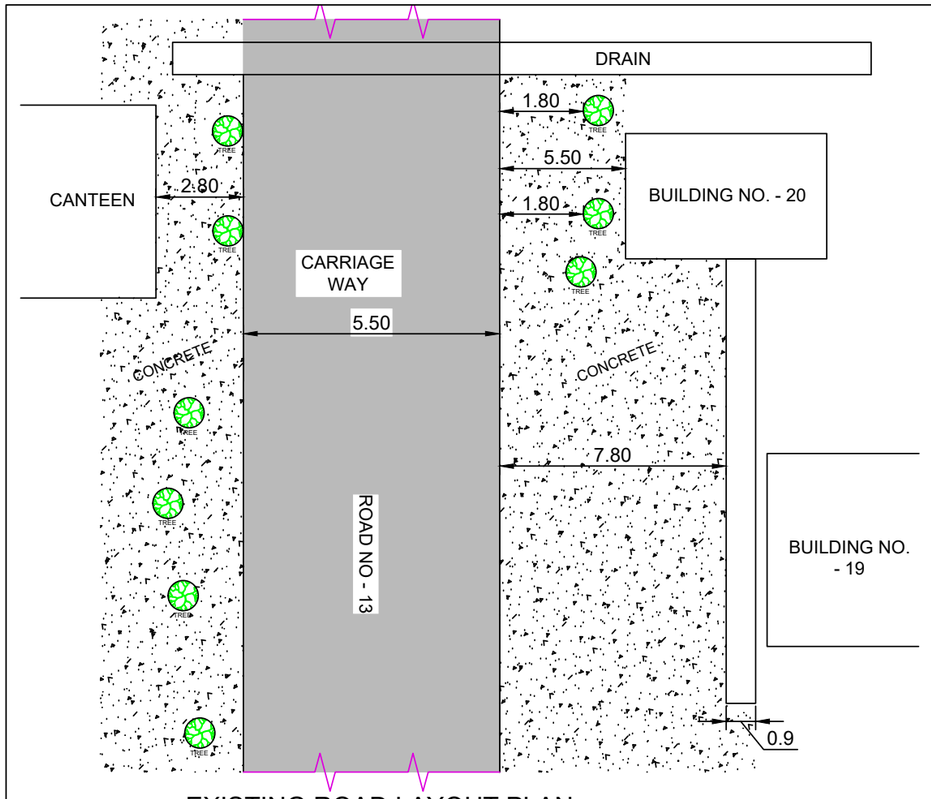
Carriageway Widening:
The existing 5.5-meter carriageway will be widened to 11 meters on the side where the sewerage network is being laid.

Pathway Proposals:
Along the ITC Building: A 2.2-meter-wide pathway is proposed above the sewerage network.
Near the Fire Office : On this side of the road, beyond the existing carriageway, a 3.9-meter-wide pathway is proposed.

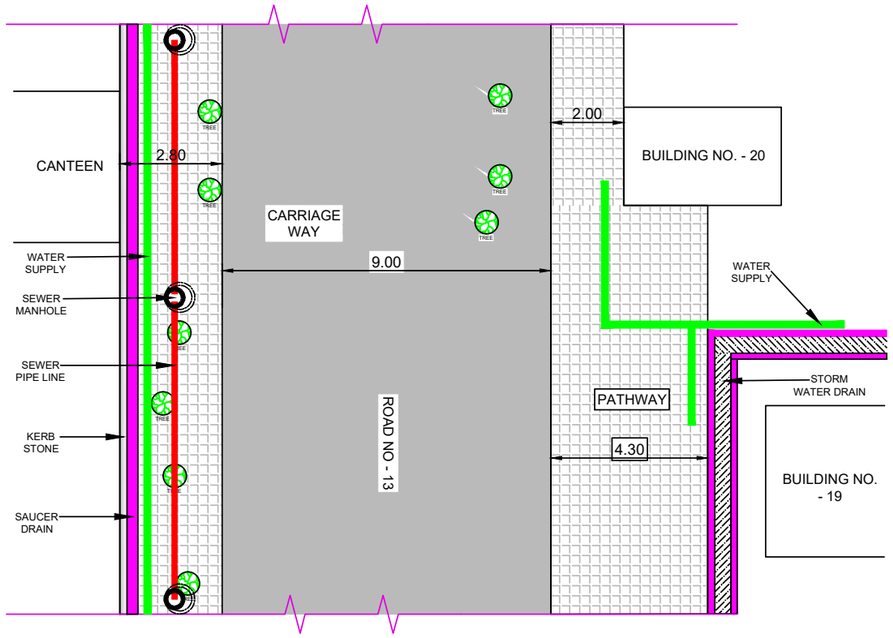
SUBMITTED BY
WAPCOS
ROPEWAYS DIVISION, 2ND FLOOR, PLOT NO.- 62, INSTITUTIONAL AREA, SECTOR-18, GURGAON – 122015 (HARYANA)
PHONE: 0124-2977225
EMAIL: ROPEWAYS@WAPCOS.CO.IN

CLIENT	ARMOURED VEHICLES NIGAM LIMITED A GOVERNMENT OF INDIA ENTERPRISE, MINISTRY OF DEFENCE
PROJECT	COMPREHENSIVE UPGRADATION OF ROADS, PATHWAYS, & LANDSCAPING AT MTPF-AVNL AMBERNATH, MAHARASHTRA
DRAWING	TYPICAL LAYOUT PLAN OF EXISTING ROAD & PROPOSED UPGRADATIONS: ROAD-11

SCALE NTS	DATE 23-01-2025	
DRAWN NITESH JAIN	CHECKED AJAY RATHORE	APPROVED
DRG. NO : RD/MH/AMBRT/10		REVISIONS 0

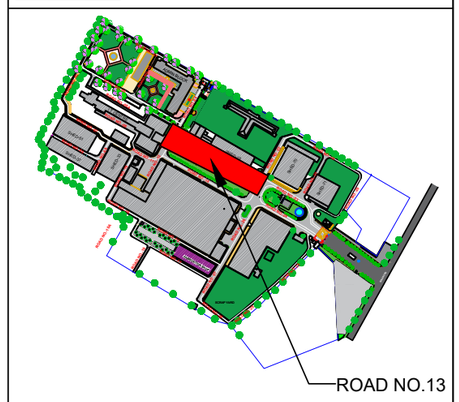


EXISTING ROAD LAYOUT PLAN
FOR ROAD NO.13



PROPOSED UPGRADATIONS FOR
ROAD NO.13

KEY PLAN :-



LEGEND	DESCRIPTION
	SEWER PIPELINE
	SEWER MANHOLE
	CARRIAGE WAY
	PATHWAY
	BOUNDARY WALL
	STORM WATER DRAIN
	WATER SUPPLY
	TREE
	SAUCER DRAIN
	KERB STONE

Road No. - 13

Road Upgradation	
Road Length (m)	155
Existing Carriage Way (m)	5.5
Proposed Carriage Way (m)	9
Kerb Stone	One Side (Along Canteen)
Pathway (m)	Both SIde (80 mm)

Services Upgradations	
Saucer Drain Laying	One Sided
Drain Section Laying	One Sided : 0.45m, Near Building 19
Sewer Laying	One Sided, Near Canteen : Type B
Water Supply Laying	One Sided, Near Canteen

Remark :
Road No. 13 lies between Building 19 and the Canteen, with an existing carriageway of 5.5 meters.
The boundary of the Canteen is located 2.80 meters away from the existing carriageway. On the other side, toward Building 19 and Building 20, there is space available: 7.8 meters and 5.5 meters, respectively.
This road has a camber slope toward the Canteen building. For Building No. 19, there is an existing drainage system with a width of 0.9 meters.

Proposed Upgradation:
Drainage:
The existing drainage near Building 19 is recommended to be dismantled and reconstructed adjacent to the building to accommodate stormwater drainage.

Sewerage Network:
There is a sewerage network passing through this road, with a Type B manhole. This type of manhole requires at least 3 meters of diameter width during execution. It is proposed to lay the sewerage line adjacent to the Canteen building.

Road Widening:
The existing carriageway of 5.5 meters will be widened to 9 meters. The road widening will take place between Building No. 19 and Building No. 20, requiring 3.5 meters of widening. This may result in some trees being in the way, which may need to be cut down.

Pathway:
Near Building No. 20 will have a 2-meter pathway & Building No. 19 will have a 4.3-meter pathway after the road widening and drainage construction.
Near the Canteen:
On the side of the road near the Canteen, there is 2.8 meters of available space after the carriageway. This space will be developed into a pathway, beneath which sewer and water supply services will be laid.
At the edge of the pathway, toward the Canteen, there is a proposal for a saucer drain followed by kerb stones.

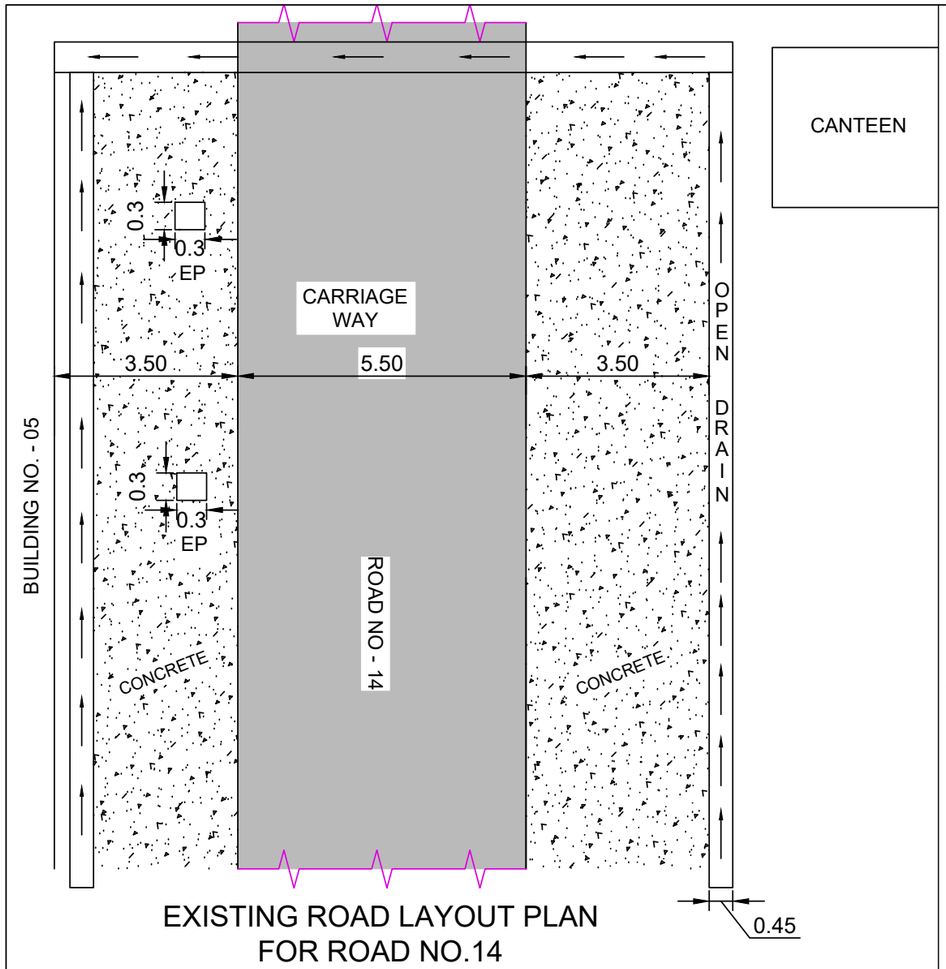
SUBMITTED BY
WAPCOS
ROPEWAYS DIVISION, 2ND FLOOR, PLOT NO.- 62, INSTITUTIONAL AREA, SECTOR-18, GURGAON – 122015 (HARYANA)
PHONE: 0124-2977225
EMAIL: ROPEWAYS@WAPCOS.CO.IN

CLIENT: ARMOURED VEHICLES NIGAM LIMITED
A GOVERNMENT OF INDIA ENTERPRISE, MINISTRY OF DEFENCE

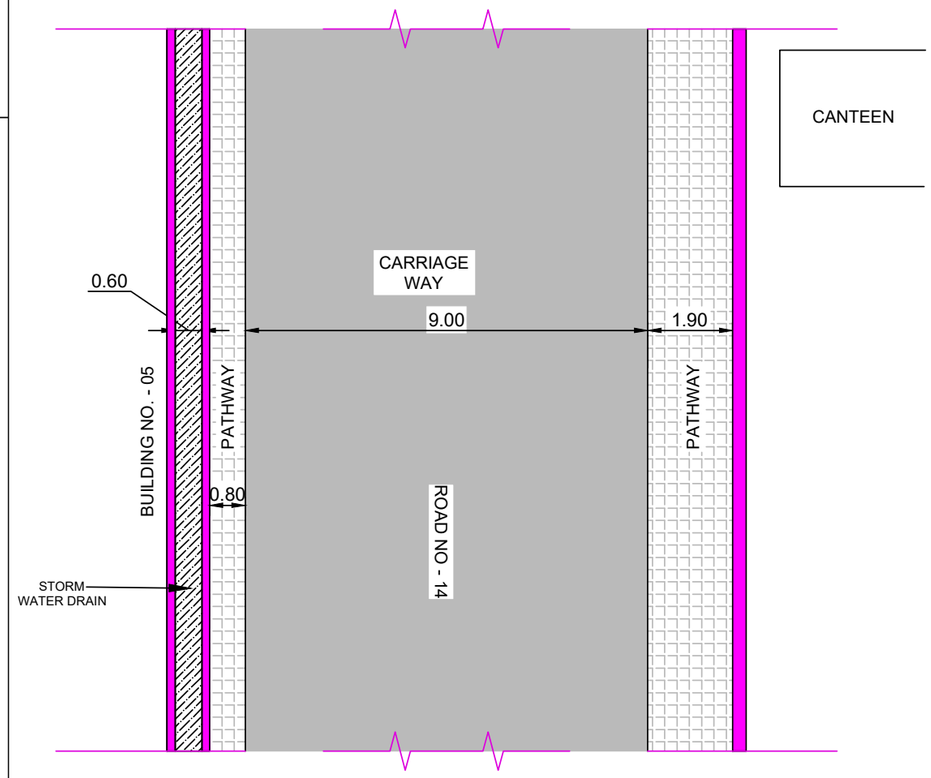
PROJECT: COMPREHENSIVE UPGRADATION OF ROADS, PATHWAYS, & LANDSCAPING AT MTPF-AVNL AMBERNATH, MAHARASHTRA

DRAWING: TYPICAL LAYOUT PLAN OF EXISTING ROAD & PROPOSED UPGRADATIONS: ROAD-13

SCALE NTS	DATE 23-01-2025	
DRAWN NITESH JAIN	CHECKED AJAY RATHORE	APPROVED
DRG. NO : RD/MH/AMBRT/11		REVISIONS 0

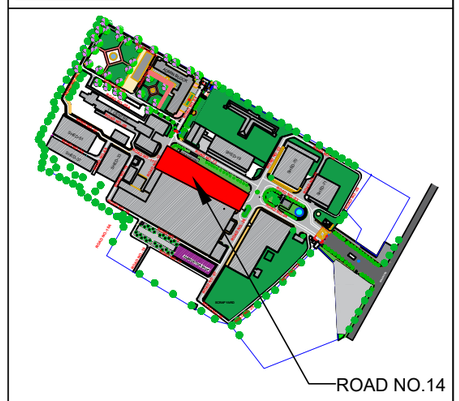


EXISTING ROAD LAYOUT PLAN FOR ROAD NO.14



PROPOSED UPGRADATIONS FOR ROAD NO.14

KEY PLAN :-



LEGEND	DESCRIPTION
	CARRIAGE WAY
	PATHWAY
	SAUCER DRAIN
	STORM WATER DRAIN

Road No. - 14

Road Upgradation	
Road Length (m)	154
Existing Carriage Way (m)	5.5
Proposed Carriage Way (m)	9
Kerb Stone	One Side
Pathway (m)	Both Side (80 mm)

Services Upgradations	
Saucer Drain Laying	One Side
Drain Section Laying	One Side
Sewer Laying	N/A
Water Supply Laying	Crossing

Remarks :

Road No. 14 connects Road No. 12 and Road No. 26 and provides access to Building No. 5 and the Canteen.

The existing carriageway of the road is 5.5 meters wide. On one side (toward Building No. 5), there is a space of 3.5 meters available from the carriageway. On the other side (toward the Canteen), there is a space of 3.95 meters, which is built with PCC. The camber of the road slopes toward the Canteen.

Proposed Upgradation:

Drainage Network:

A drainage network is proposed to pass through the side of the road near Building No. 5. On the side near the Canteen, a saucer drain is proposed to handle stormwater runoff. The drainage section near Building No. 5 is proposed to be 0.6 meters wide to cater to stormwater from the building.

Road Widening:

The existing carriageway of 5.5 meters will be widened to 9 meters by extending 3.5 meters toward the both side from Center.

Pathway Construction:

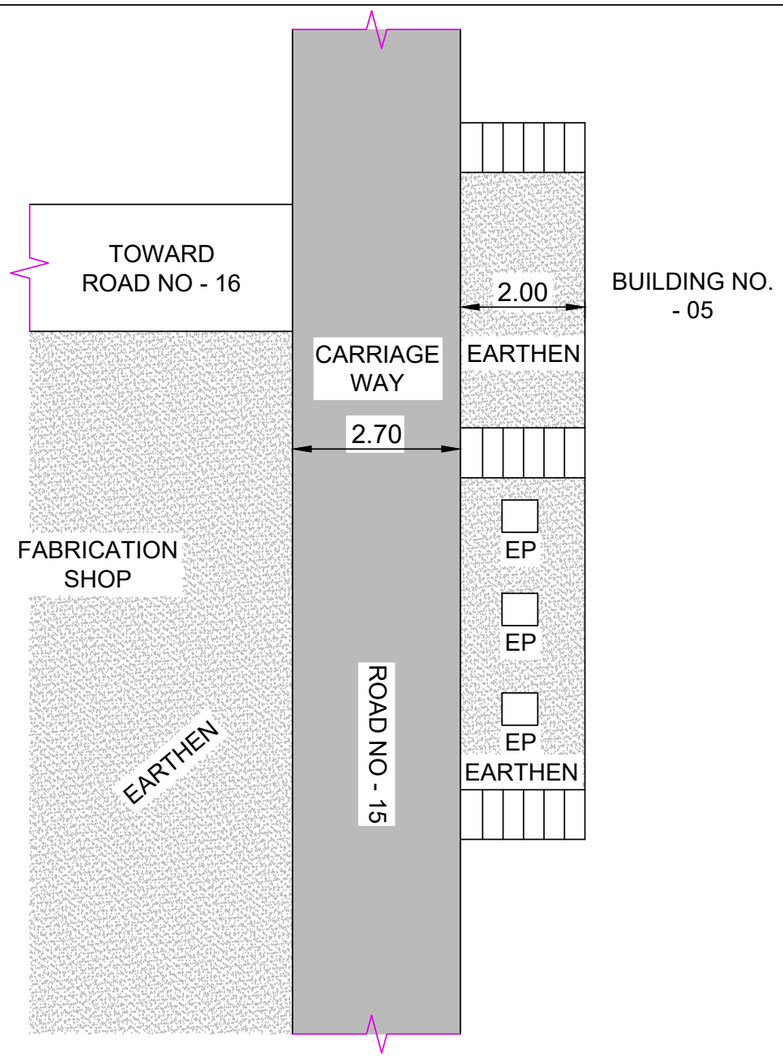
Near Building No. 5: After the construction of the drainage system, the remaining space of 0.80 meters will be utilized for a pathway. During this process, any existing electric poles, earthing pits, or trees encountered can be retained while integrating them into the pathway design.

Toward the Canteen: After road widening, there will be a total space availability of 2.20 meters. Out of this: 1.9 meters will be utilized for the construction of a pathway. The remaining 0.30 meters will be used for a saucer drain to manage stormwater runoff effectively.

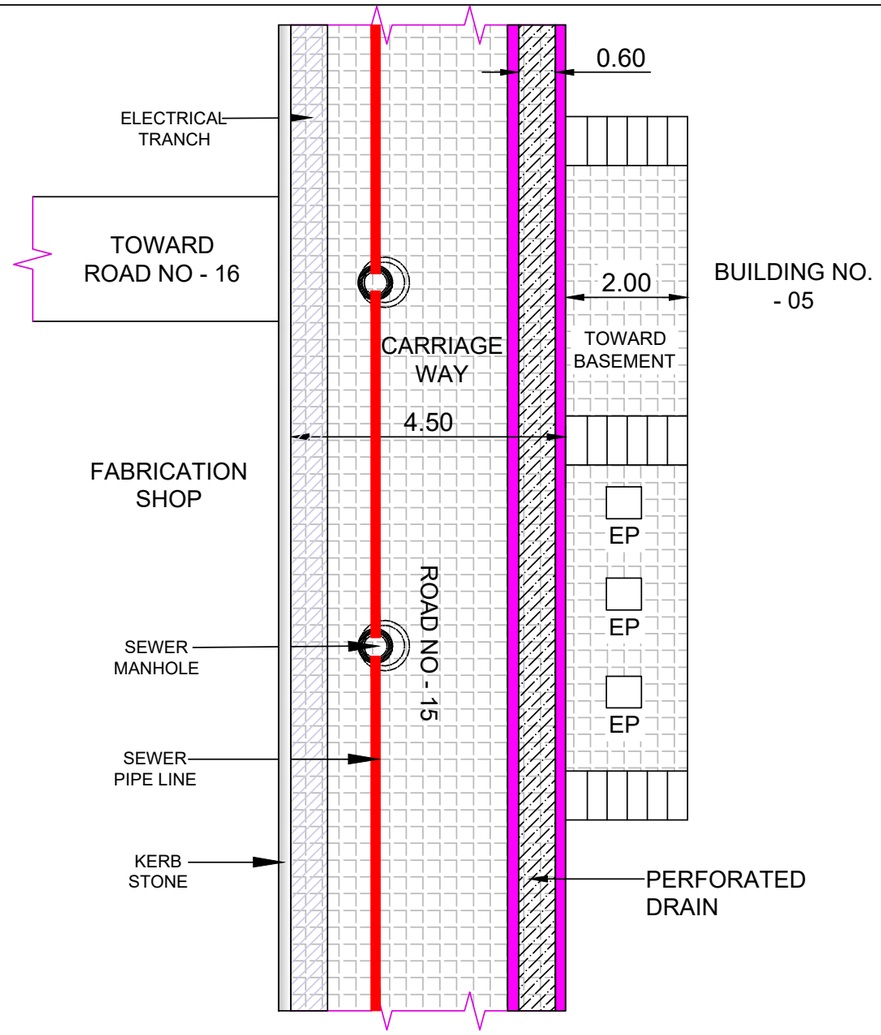
SUBMITTED BY
WAPCOS
ROPEWAYS DIVISION, 2ND FLOOR, PLOT NO.- 62, INSTITUTIONAL AREA, SECTOR-18, GURGAON – 122015 (HARYANA)
PHONE: 0124-2977225
EMAIL: ROPEWAYS@WAPCOS.CO.IN

CLIENT	ARMOURED VEHICLES NIGAM LIMITED A GOVERNMENT OF INDIA ENTERPRISE, MINISTRY OF DEFENCE
PROJECT	COMPREHENSIVE UPGRADATION OF ROADS, PATHWAYS, & LANDSCAPING AT MTPF-AVNL AMBERNATH, MAHARASHTRA
DRAWING	TYPICAL LAYOUT PLAN OF EXISTING ROAD & PROPOSED UPGRADATIONS: ROAD-14

SCALE NTS	DATE 23-01-2025		
DRAWN NITESH JAIN	CHECKED AJAY RATHORE	APPROVED	
DRG. NO : RD/MH/AMBRT/12		REVISIONS 0	

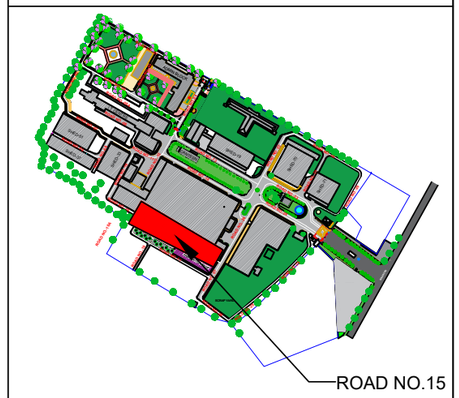


EXISTING ROAD LAYOUT PLAN
FOR ROAD NO.15



PROPOSED UPGRADATIONS FOR
ROAD NO.15

KEY PLAN :-



LEGEND	DESCRIPTION
	SEWER PIPELINE
	SEWER MANHOLE
	CARRIAGE WAY
	PATHWAY
	STORM WATER DRAIN
	KERB STONE

Road No. - 15

Road Upgradation	
Road Length (m)	210
Existing Carriage Way (m)	N/A
Proposed Carriage Way (m)	4.5
Kerb Stone	One Sided
Pathway (m)	Complete 80 mm Paver

Services Upgradations	
Saucer Drain Laying	N/A
Drain Section Laying	0.6 m Perforated Drain
Sewer Laying	Yes - Type B
Water Supply Laying	Yes - One Sided

Remarks :

This road is located at the backside of Building No. 5, where a Fabrication Shop is proposed. The existing carriageway is 2.7 meters wide and consists of an earthen surface. The road provides access to Building No. 5 through stairs leading to the basement.

Existing Features and Services:
Stairs and Cable Trench: The stairs lead to the basement of Building No. 5. Adjacent to the stairs, there is a cable trench for an electrical HT line, with a width of 0.6 meters.

Drainage System: A drainage network with a width of 0.6 meters is proposed. It is recommended to install the drainage system with perforated covers so that it can be incorporated into the carriageway.

Sewerage Network: Sewerage network passes through this road, with Type B manholes. These manholes require at least 3 meters of clear diameter space for construction.

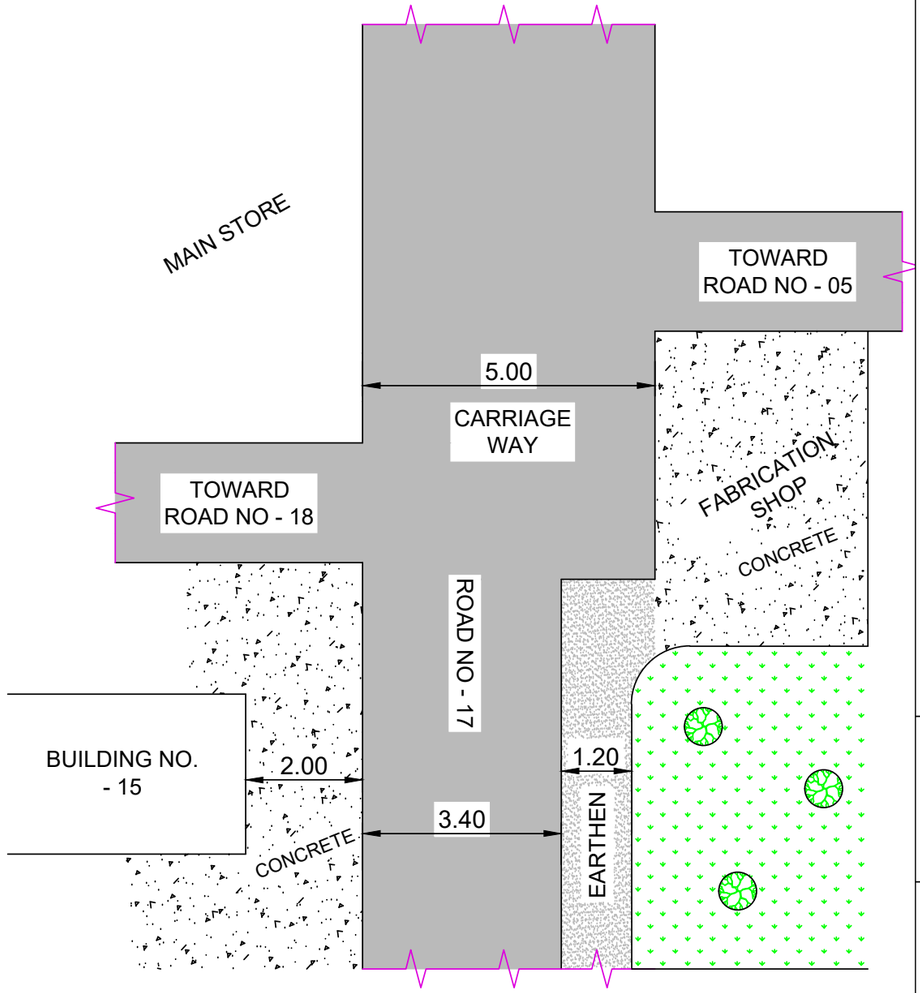
Proposed Upgradation:
Carriageway Construction: After laying all services, the road stretch will be constructed using 80 mm thick interlocking paver blocks. These paver blocks are designed to handle heavy loads, allowing the road to function as a durable carriageway.

Carriageway Width: The proposed carriageway width is 4.5 meters, starting from the stairs leading to Shed 5.

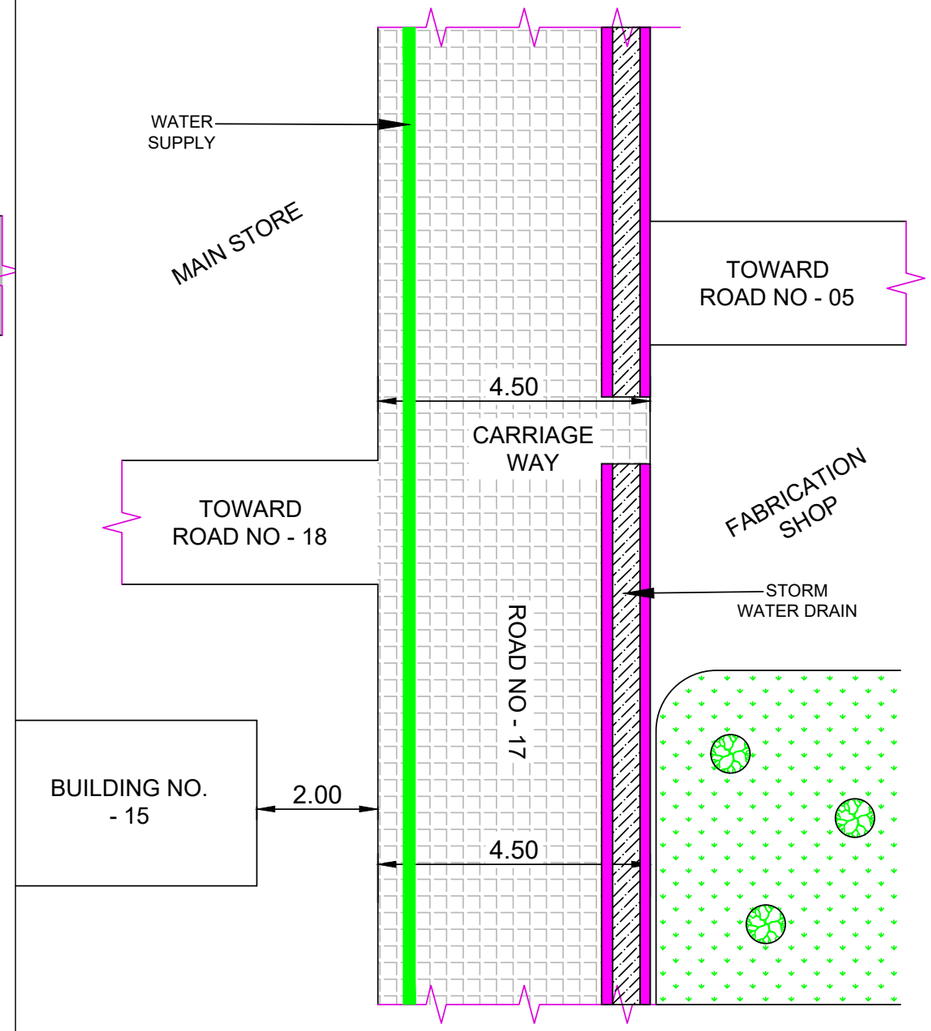
SUBMITTED BY
WAPCOS
ROPEWAYS DIVISION, 2ND FLOOR, PLOT NO.- 62, INSTITUTIONAL AREA, SECTOR-18, GURGAON – 122015 (HARYANA)
PHONE: 0124-2977225
EMAIL: ROPEWAYS@WAPCOS.CO.IN

CLIENT	ARMOURED VEHICLES NIGAM LIMITED A GOVERNMENT OF INDIA ENTERPRISE, MINISTRY OF DEFENCE
PROJECT	COMPREHENSIVE UPGRADATION OF ROADS, PATHWAYS, & LANDSCAPING AT MTPF-AVNL AMBERNATH, MAHARASHTRA
DRAWING	TYPICAL LAYOUT PLAN OF EXISTING ROAD & PROPOSED UPGRADATIONS: ROAD-15

SCALE NTS	DATE 23-01-2025		
DRAWN NITESH JAIN	CHECKED AJAY RATHORE	APPROVED	
DRG. NO : RD/MH/AMBRT/13		REVISIONS 0	



EXISTING ROAD LAYOUT PLAN
FOR ROAD NO.17



PROPOSED UPGRADATIONS FOR
ROAD NO.17

KEY PLAN :-

LEGEND	DESCRIPTION
	PATHWAY
	STORM WATER DRAIN
	WATER SUPPLY
	TREE
	GREEN AREA

Road No. - 17

Road Upgradation	
Road Length (m)	145
Existing Carriage Way (m)	3.4 to 5 Meter
Proposed Carriage Way (m)	4.5
Kerb Stone	N/A
Pathway (m)	Complete 80 mm Paver

Services Upgradations	
Saucer Drain Laying	N/A
Drain Section Laying	Yes - 0.45m
Sewer Laying	Yes - Type A
Water Supply Laying	Yes - One Sided

Remarks :

Road No. 17 runs parallel to Road No. 15 and provides access to the Main Store (Building No. 15) and the Fabrication Shop.

Existing Features:

Carriageway and Surroundings: The existing carriageway is 3.4 meters wide. On either side of the carriageway, there is PCC work: 2 meters wide on the side of Building No. 15. 1.2 meters wide on the side of the Fabrication Shop.

Proposed Upgradation:

Services:

Drainage System: Proposed 0.45 m Drain Section to be laid toward the Fabrication Shop side.

Water Supply Network: Proposed to be laid toward the side of Building No. 15.

Carriageway Widening: The proposed carriageway width is 4.5 meters. Widening will be centered along the existing carriageway alignment for balanced expansion.

The road will be constructed with 80 mm thick interlocking paver blocks to support heavy traffic loads.

SUBMITTED BY
WAPCOS
ROPEWAYS DIVISION, 2ND FLOOR, PLOT NO.- 62, INSTITUTIONAL AREA, SECTOR-18, GURGAON – 122015 (HARYANA)
PHONE: 0124-2977225
EMAIL: ROPEWAYS@WAPCOS.CO.IN

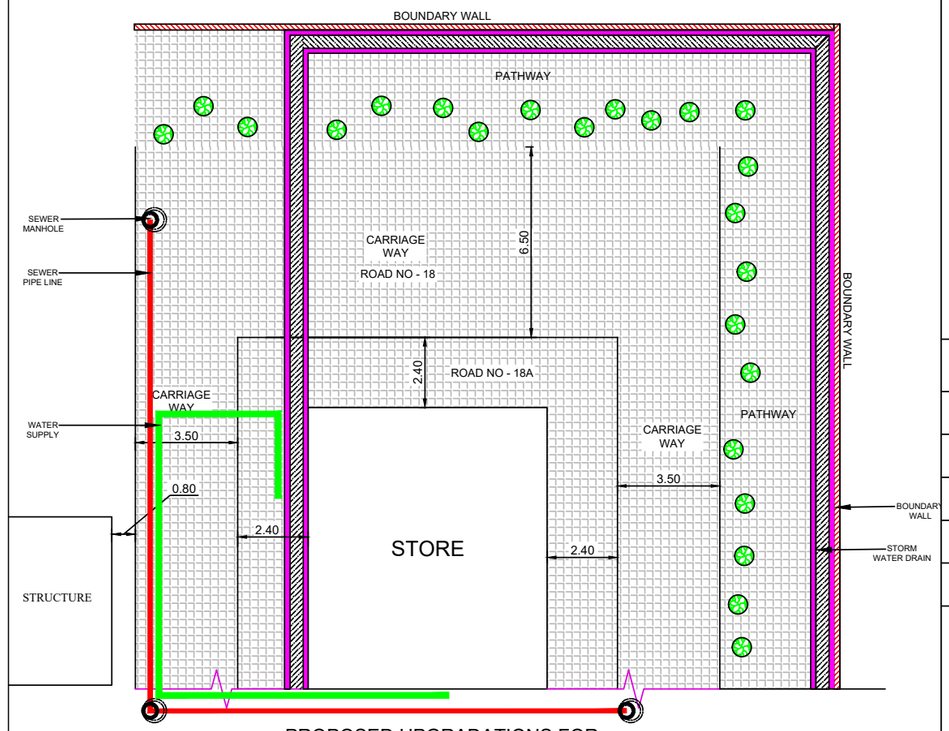
CLIENT: ARMOURED VEHICLES NIGAM LIMITED
A GOVERNMENT OF INDIA ENTERPRISE, MINISTRY OF DEFENCE

PROJECT: COMPREHENSIVE UPGRADATION OF ROADS, PATHWAYS, & LANDSCAPING AT MTPF-AVNL AMBERNATH, MAHARASHTRA

DRAWING: TYPICAL LAYOUT PLAN OF EXISTING ROAD & PROPOSED UPGRADATIONS: ROAD-17

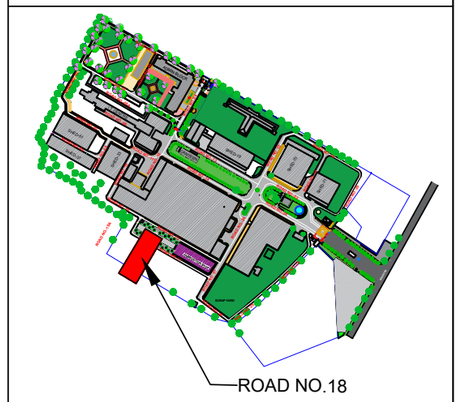
SCALE NTS	DATE 23-01-2025	
DRAWN NITESH JAIN	CHECKED AJAY RATHORE	APPROVED
DRG. NO : RD/MH/AMBRT/14		REVISIONS 0

EXISTING ROAD LAYOUT PLAN
FOR ROAD NO.18



PROPOSED UPGRADATIONS FOR
ROAD NO.18

KEY PLAN :-



LEGEND	DESCRIPTION
	PATHWAY
	STORM WATER DRAIN
	TREE
	SEWER PIPELINE
	SEWER MANHOLE

Road No. - 18 & 18A

Road Upgradation		Services Upgradations	
Road Length (m)	52 & 118	Saucer Drain Laying	N/A
Existing Carriage Way (m)	3.5	Drain Section Laying	0.45
Proposed Carriage Way (m)	N/A	Sewer Laying	Yes - Type A
Kerb Stone	Complete 80 mm Paver	Water Supply Laying	Yes - One Sided

Remarks :
Road No. 18 & 18A serve as the peripheral roads of the store and are accessed via Road No. 17.

Existing Features:
Carriageway and Peripheral Work: The existing carriageway is 3.6 meters wide. Peripheral CC work of 2.4 meters width is present along the road. Some trees are located within this CC area.
Drainage: There is an existing drainage system on the outer edges of the road.

Proposed Upgradation:
Drainage System: The existing drainage system will be dismantled and replaced. A new drainage system with a width of 0.45 meters will be constructed along the outer edges of the road.

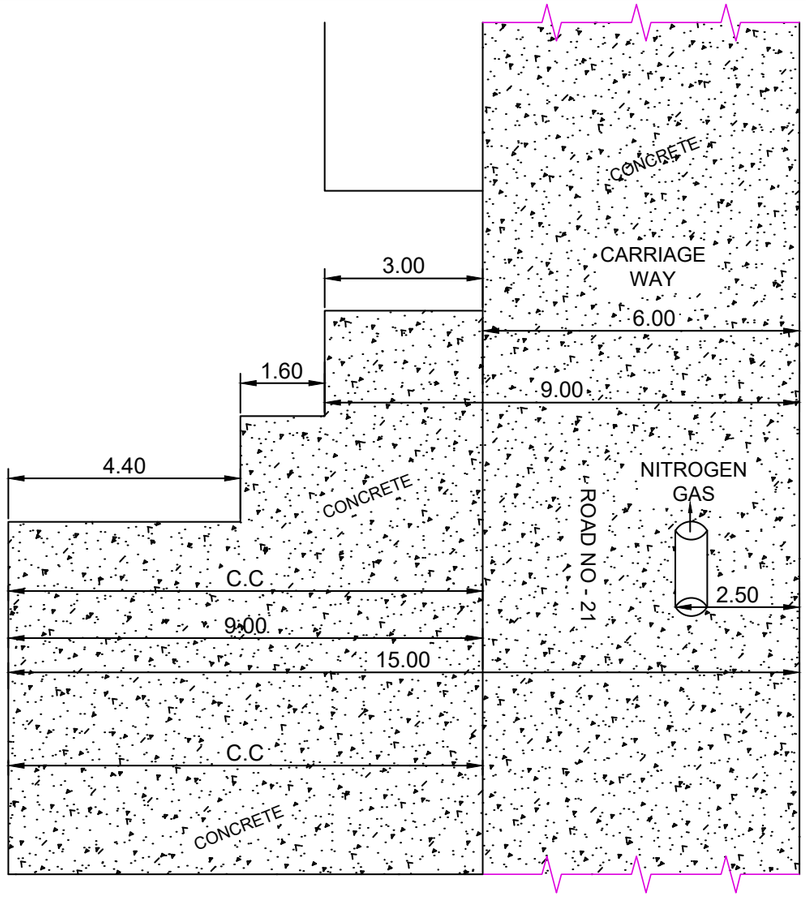
Sewerage Network: The proposed sewerage network will originate from the edge of the road.

Carriageway Widening: After laying all services, the road stretch will be constructed using 80 mm thick interlocking paver blocks. These paver blocks are designed to handle heavy loads, allowing the road to function as a durable carriageway.

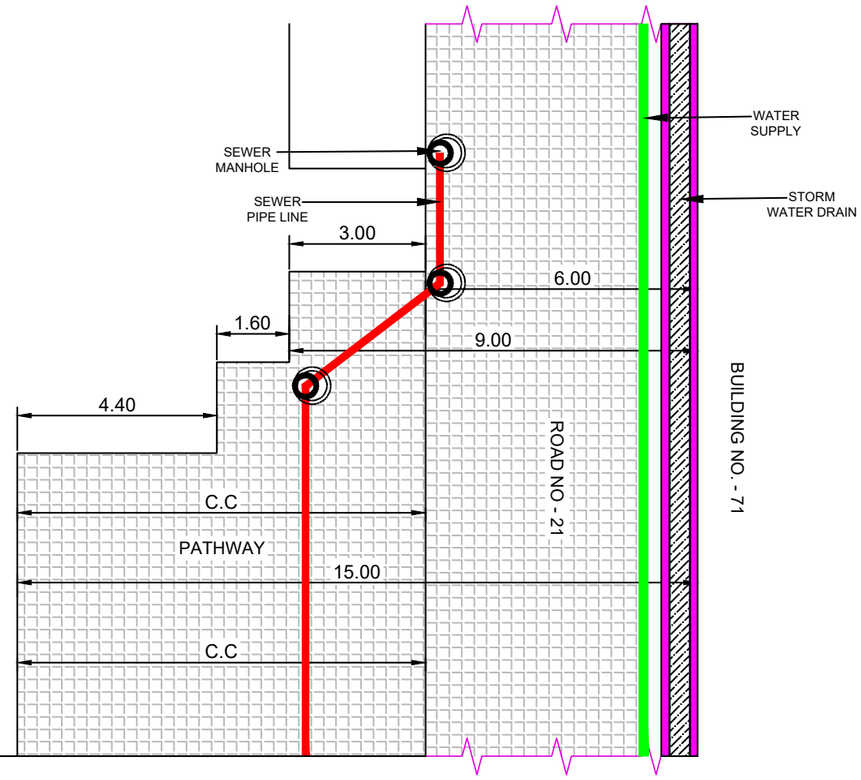
SUBMITTED BY
WAPCOS
ROPEWAYS DIVISION, 2ND FLOOR, PLOT NO.- 62, INSTITUTIONAL AREA, SECTOR-18, GURGAON – 122015 (HARYANA)
PHONE: 0124-2977225
EMAIL: ROPEWAYS@WAPCOS.CO.IN

CLIENT	ARMOURED VEHICLES NIGAM LIMITED A GOVERNMENT OF INDIA ENTERPRISE, MINISTRY OF DEFENCE
PROJECT	COMPREHENSIVE UPGRADATION OF ROADS, PATHWAYS, & LANDSCAPING AT MTPF-AVNL AMBERNATH, MAHARASHTRA
DRAWING	TYPICAL LAYOUT PLAN OF EXISTING ROAD & PROPOSED UPGRADATIONS: ROAD-18

SCALE NTS	DATE 23-01-2025	
DRAWN NITESH JAIN	CHECKED AJAY RATHORE	APPROVED
DRG. NO : RD/MH/AMBRT/15		REVISIONS 0

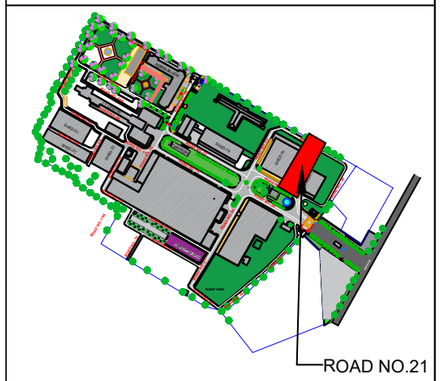


EXISTING ROAD LAYOUT PLAN FOR ROAD NO.21



PROPOSED UPGRADATIONS FOR ROAD NO.21

KEY PLAN :-



LEGEND	DESCRIPTION
	SEWER PIPELINE
	SEWER MANHOLE
	CARRIAGE WAY
	PATHWAY
	STORM WATER DRAIN
	WATER SUPPLY

Road No. - 21

Road Upgradation	
Road Length (m)	83
Existing Carriage Way (m)	6
Proposed Carriage Way (m)	N/A
Kerb Stone	N/A
Pathway (m)	Complete 80 mm Paver

Services Upgradations	
Saucer Drain Laying	N/A
Drain Section Laying	Yes - 0.45 m
Sewer Laying	Yes - Type A
Water Supply Laying	One Sided

Remarks :
This road provides access to Building No. 19, Building No. 70, and the Peripheral Road.

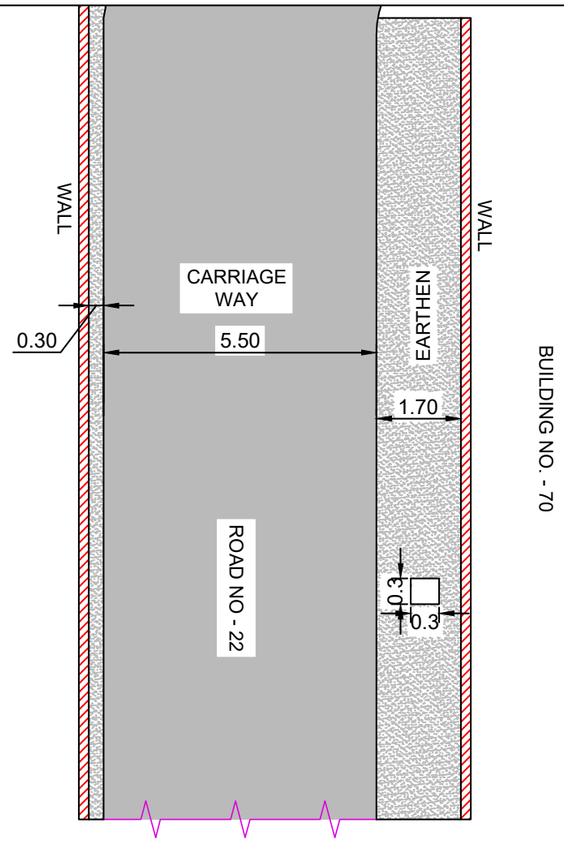
Existing Features:
Carriageway Width: The existing carriageway varies between 6 meters and 9 meters.
Nitrogen Tank Location: A Nitrogen Tank is located 2.5 meters away from Building No. 71.
Existing Works: The road currently has CC work done, which will be dismantled for upgrades.

Proposed Upgradation:
Drainage System: A drainage system is proposed adjacent to Building No. 71, utilizing the available straight path for efficient passage.
The drainage section will be 0.45 meters wide (Nitrogen Tank shall be Shifted)
Sewerage Network: The sewerage network includes Type A manholes and will be laid on the Building No. 70 side.
Water Supply: Behind Shed 71, there is a provision for the construction of a UGR (Underground Reservoir) and a Pump House.
The water distribution system will originate from this UGR.
Carriageway Reconstruction: After dismantling the existing CC work, the road will be reconstructed with 80 mm thick interlocking paver blocks.
These paver blocks are designed to enhance aesthetics and cater to heavy traffic loads.

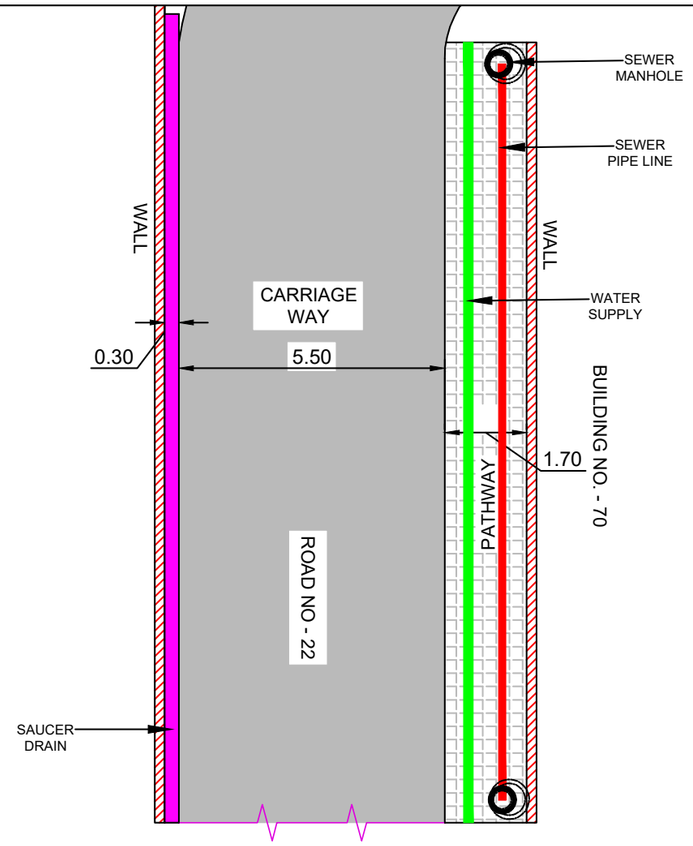
SUBMITTED BY
WAPCOS
ROPEWAYS DIVISION, 2ND FLOOR, PLOT NO.- 62, INSTITUTIONAL AREA, SECTOR-18, GURGAON – 122015 (HARYANA)
PHONE: 0124-2977225
EMAIL: ROPEWAYS@WAPCOS.CO.IN

CLIENT	ARMOURED VEHICLES NIGAM LIMITED A GOVERNMENT OF INDIA ENTERPRISE, MINISTRY OF DEFENCE
PROJECT	COMPREHENSIVE UPGRADATION OF ROADS, PATHWAYS, & LANDSCAPING AT MTPF-AVNL AMBERNATH, MAHARASHTRA
DRAWING	TYPICAL LAYOUT PLAN OF EXISTING ROAD & PROPOSED UPGRADATIONS: ROAD-21

SCALE NTS	DATE 23-01-2025	
DRAWN NITESH JAIN	CHECKED AJAY RATHORE	APPROVED
DRG. NO : RD/MH/AMBRT/16		REVISIONS 0

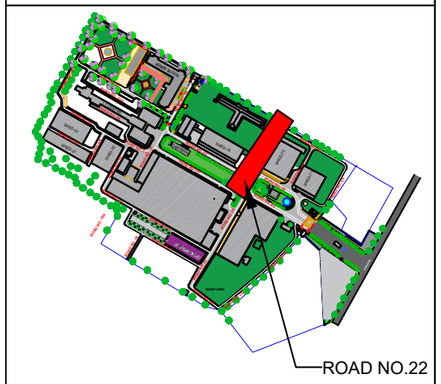


EXISTING ROAD LAYOUT PLAN
FOR ROAD NO.22



PROPOSED UPGRADATIONS FOR
ROAD NO.22

KEY PLAN :-



LEGEND	DESCRIPTION
	CARRIAGE WAY
	PATHWAY
	WALL
	SAUCER DRAIN

Road No. - 22

Road Upgradation	
Road Length (m)	80
Existing Carriage Way (m)	5.5
Proposed Carriage Way (m)	5.5
Kerb Stone	N/A
Pathway (m)	Both Side

Services Upgradations	
Saucer Drain Laying	One Sided
Drain Section Laying	N/A
Sewer Laying	Yes - Type A
Water Supply Laying	One Sided

Remark :
This road connects to Building No. 70 (Fuze Shop).

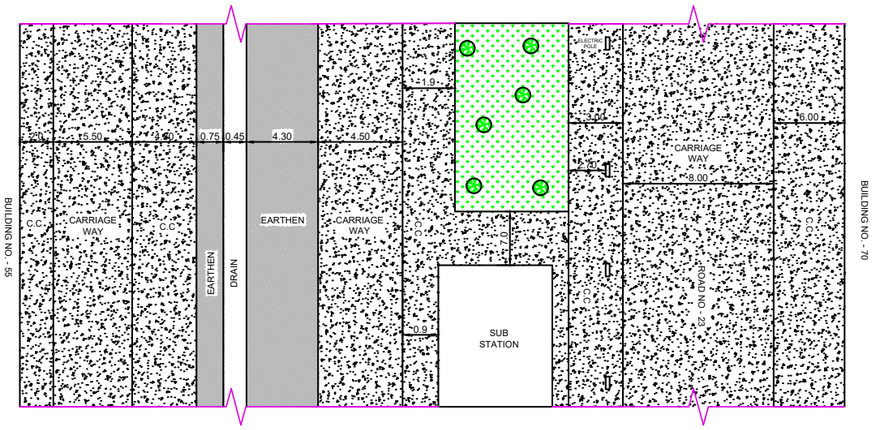
Existing Features:
Carriageway Width: The existing carriageway is 5.5 meters wide, flanked by walls on both sides.
Available Space: Toward Building No. 19, 0.3 meters of space is available.
Toward Building No. 70, 1.7 meters of space is available.
Camber: The camber of the road slopes toward Road No. 23.

Proposed Upgradation:
Drainage System: A saucer drain is proposed toward Building No. 19 for stormwater management.
Sewerage Network: Type A manhole sewerage system is proposed toward Building No. 70.
Water Supply: The road will also accommodate a water supply line as part of the upgrade.
Pathway Construction: After laying the necessary services, a 1.7-meter-wide pathway will be constructed over the service area toward Building No. 70.

SUBMITTED BY
WAPCOS
ROPEWAYS DIVISION, 2ND FLOOR, PLOT NO.- 62, INSTITUTIONAL AREA, SECTOR-18, GURGAON – 122015 (HARYANA)
PHONE: 0124-2977225
EMAIL: ROPEWAYS@WAPCOS.CO.IN

CLIENT	ARMOURED VEHICLES NIGAM LIMITED A GOVERNMENT OF INDIA ENTERPRISE, MINISTRY OF DEFENCE
PROJECT	COMPREHENSIVE UPGRADATION OF ROADS, PATHWAYS, & LANDSCAPING AT MTPF-AVNL AMBERNATH, MAHARASHTRA
DRAWING	TYPICAL LAYOUT PLAN OF EXISTING ROAD & PROPOSED UPGRADATIONS: ROAD-22

SCALE NTS	DATE 23-01-2025	
DRAWN NITESH JAIN	CHECKED AJAY RATHORE	APPROVED
DRG. NO : RD/MH/AMBRT/17		REVISIONS 0



EXISTING ROAD LAYOUT PLAN FOR ROAD NO.24

EXISTING ROAD LAYOUT PLAN FOR ROAD NO.23

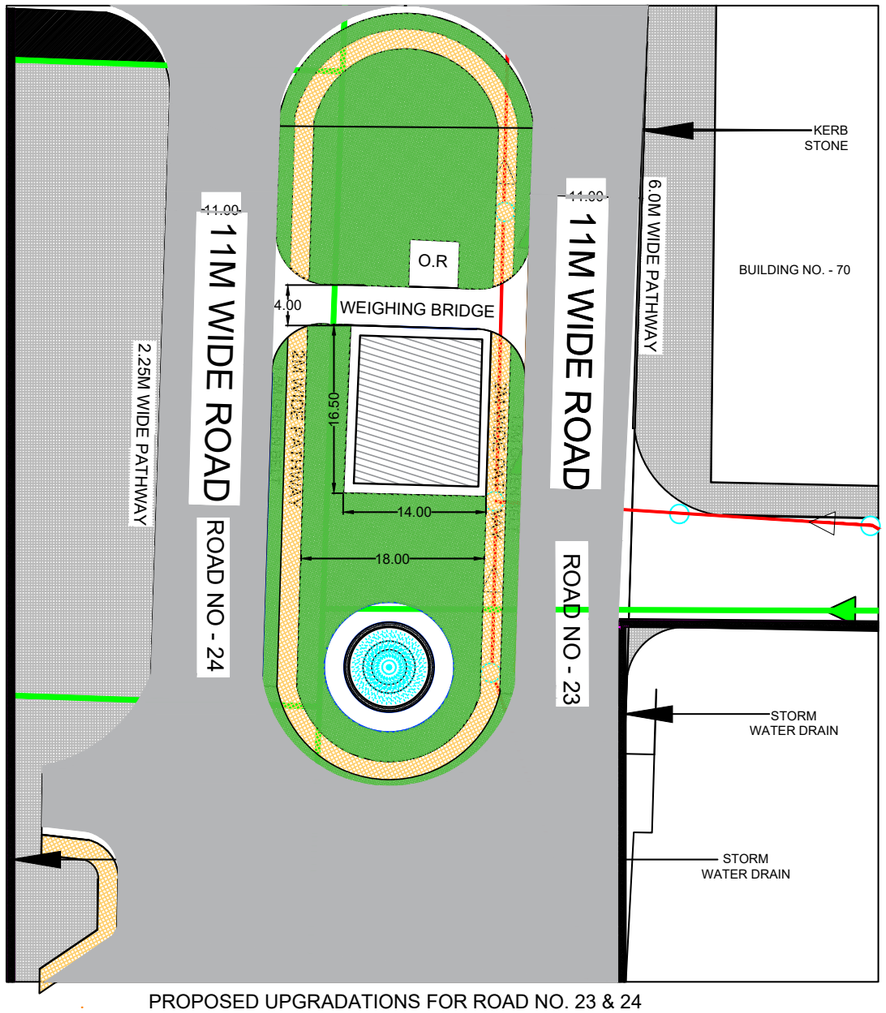
Road No. - 24

Road Upgradation		Services Upgradations	
Road Length (m)	107	Saucer Drain Laying	N/A
Existing Carriage Way (m)	4.5 & 5.5	Drain Section Laying	One Sided- 0.45 m
Proposed Carriage Way (m)	11	Sewer Laying	N/A
Kerb Stone	One Side	Water Supply Laying	Crossings
Pathway (m)	Both Side		

Remarks :
Road No. 24 runs parallel to Road No. 23 and provides access to Building 5, Building 55, the Fabrication Shop, Canteen, ITC Centre, and the Scrap Yard. The existing road features an irregular carriageway, drainage, and CC work, all of which need renovation.

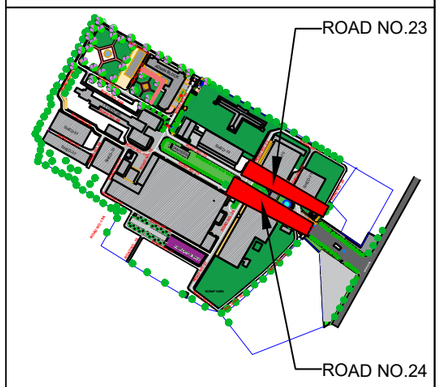
Proposed Upgradation:
The proposed upgradation of Road No. 24 will mirror Road No. 23 on the other side of the landscaped area.

Key Features of the Upgrade:
Green Belt: A 2.0 -meter-wide green belt will be established, similar to Road 23.
Kerb Stone & Saucer Drain: At the end of the green belt, a kerb stone will be placed, followed by a saucer drain to facilitate stormwater runoff.
Carriageway: The road will be upgraded to an 11-meter-wide carriageway.
Pathway: A 2.35-meter-wide pathway will be constructed next to the carriageway.
Drainage System: A 0.45-meter-wide drainage section will be included.



PROPOSED UPGRADATIONS FOR ROAD NO. 23 & 24

KEY PLAN :-



LEGEND	DESCRIPTION
	SEWER PIPELINE
	SEWER MANHOLE
	CARRIAGE WAY
	PATHWAY
	BOUNDARY WALL
	STORM WATER DRAIN
	WATER SUPPLY
	TREE
	SAUCER DRAIN
	KERB STONE

Road No. - 23

Road Upgradation		Services Upgradations	
Road Length (m)	100	Saucer Drain Laying	One Sided
Existing Carriage Way (m)	8	Drain Section Laying	One Sided - 0.45 m
Proposed Carriage Way (m)	11	Sewer Laying	Yes - Type A
Kerb Stone	One Side	Water Supply Laying	Crossings
Pathway (m)	Both Side		

Remarks :
Road No. 23 is a crucial roadway situated immediately after the East Gate entrance, providing access to Building Nos. 70 & 71 and further connecting to the Canteen, Building No. 19 and the Admin Block. This road is of significant importance due to its role in ensuring connectivity and enhancing the aesthetic appeal of the East Gate entry.

Existing Features:
Carriageway: The current 8-meter-wide carriageway is constructed of CC.
Right of Way (RoW): Structures such as the ATM, Weighbridge, and Cycle Parking fall within the RoW and are slated for redevelopment and relocation.

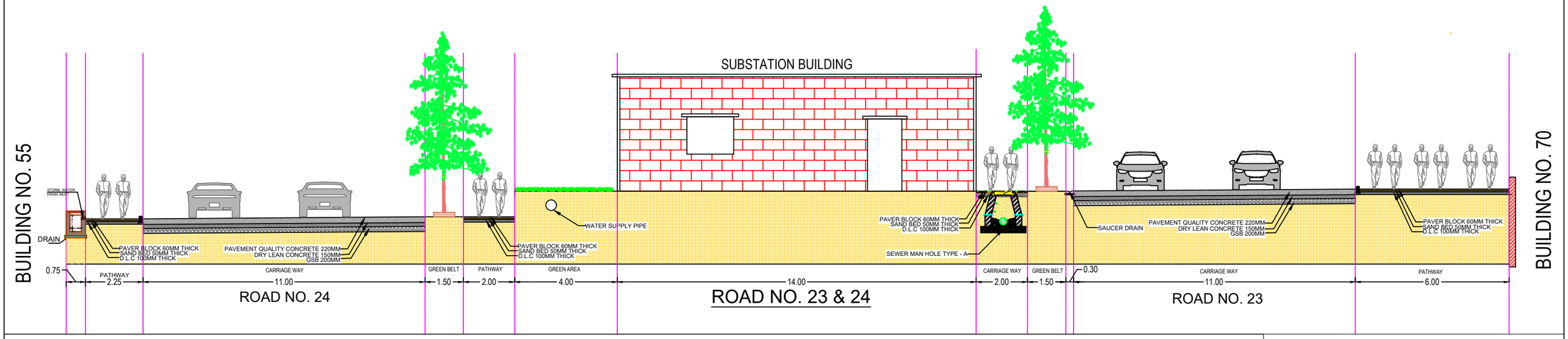
Proposed Upgradation:
Carriageway and Pathway: The carriageway width will be expanded to 11 meters. A 6-meter-wide pathway is proposed near Building No. 70.
Drainage System: A 0.45-meter-wide drainage network is proposed near Building No. 71.
Landscaped Area: A 25.5-meter-wide landscaped area is proposed between Road No. 23 and Road No. 24.
The landscaping includes: A 1.5-meter-wide green belt on the outer periphery. A 2 -meter-wide pathway adjacent to the green belt. Kerb stones and a saucer drain will separate the green belt from the carriageway and facilitate stormwater runoff drainage.
Utilities (Sewerage and Water Supply): The sewerage and water supply lines will be installed beneath the pathway surrounding the landscaped area.

SUBMITTED BY
WAPCOS
ROPEWAYS DIVISION, 2ND FLOOR, PLOT NO.- 62, INSTITUTIONAL AREA, SECTOR-18, GURGAON – 122015 (HARYANA)
PHONE: 0124-2977225
EMAIL: ROPEWAYS@WAPCOS.CO.IN

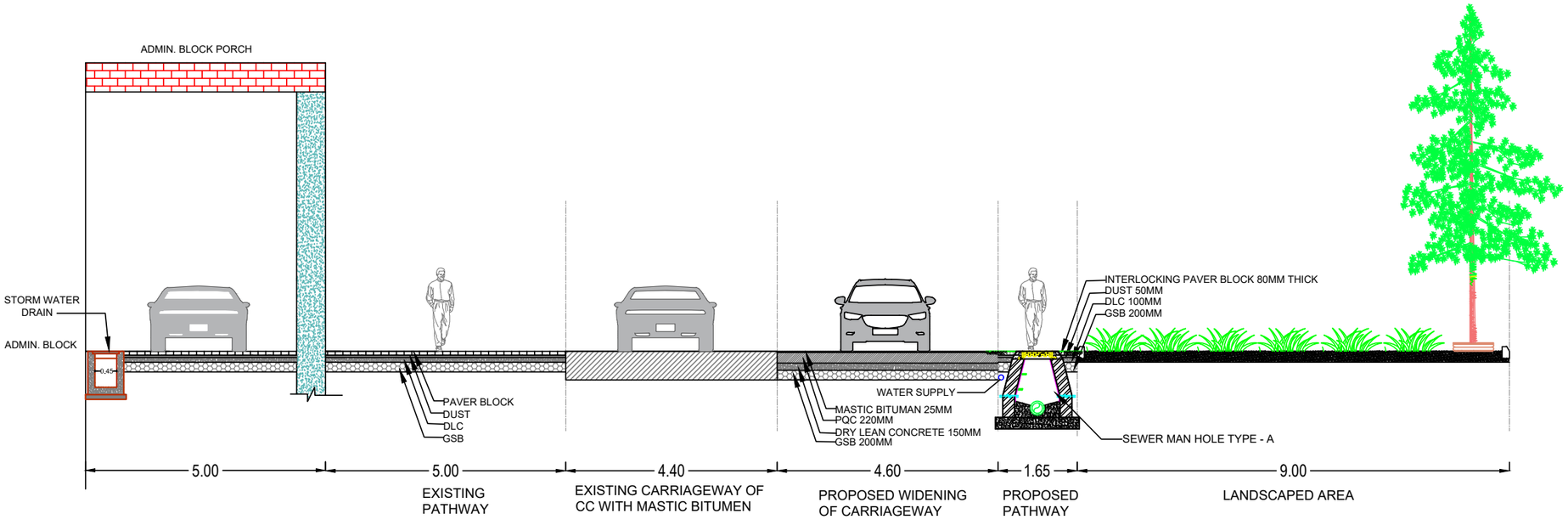
CLIENT	ARMOURED VEHICLES NIGAM LIMITED A GOVERNMENT OF INDIA ENTERPRISE, MINISTRY OF DEFENCE
PROJECT	COMPREHENSIVE UPGRADATION OF ROADS, PATHWAYS, & LANDSCAPING AT MTPF-AVNL AMBERNATH, MAHARASHTRA
DRAWING	TYPICAL LAYOUT PLAN OF EXISTING ROAD & PROPOSED UPGRADATIONS: ROAD-23 & 24

SCALE NTS	DATE 23-01-2025	
DRAWN NITESH JAIN	CHECKED AJAY RATHORE	APPROVED
DRG. NO : RD/MH/AMBRT/18	REVISIONS 0	

ROAD NO. 23 & 24



ROAD NO. 4



ROAD NO. 4

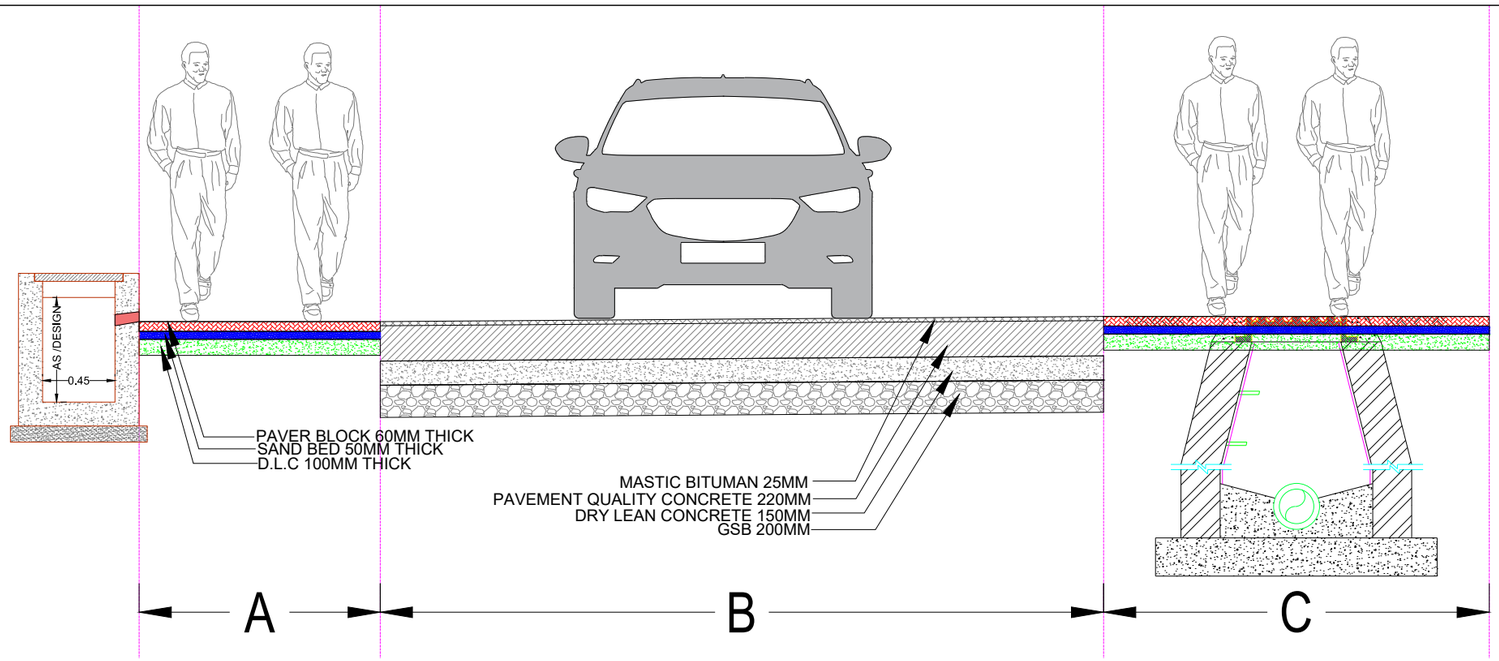
SUBMITTED BY

WAPCOS

ROPEWAYS DIVISION, 2ND FLOOR, PLOT NO.- 62, INSTITUTIONAL AREA, SECTOR-18, GURGAON – 122015 (HARYANA)
PHONE: 0124-2977225
EMAIL: ROPEWAYS@WAPCOS.CO.IN

CLIENT	ARMOURED VEHICLES NIGAM LIMITED A GOVERNMENT OF INDIA ENTERPRISE, MINISTRY OF DEFENCE
PROJECT	COMPREHENSIVE UPGRADATION OF ROADS, PATHWAYS, & LANDSCAPING AT MTPF-AVNL AMBERNATH, MAHARASHTRA
DRAWING	TYPICAL CROSS SECTION OF PROPOSED UPGRADATIONS: ROAD- 4, 23 & 24

SCALE NTS	DATE 23-01-2025		
DRAWN NITESH JAIN	CHECKED AJAY RATHORE	APPROVED	
DRG. NO : RD/MH/AMBRT/19		REVISIONS 0	



Existing Road Retained Road Proposal

S.No.	Road No.	Road Length (m)	Left Side		Center		Right Side		Drain Laying	Drain Width (m)	Sewer Laying	Type of Manhole
			Material	Width (m) - A	Material	Width (m) -B	Material	Width (m) - C				
1	1	175	60 mm Interlocking	1.5	CC & BT	3.8	60 mm Interlocking	2.55	N/A	N/A	N/A	N/A
2	2	145	60 mm Interlocking	1.3	CC & BT	3.7	N/A	N/A	Right Side	0.45	N/A	N/A
3	3	75	80 mm Interlocking	1.6	CC & BT	3.6	80 mm Interlocking	1.65	N/A	N/A	Left Side	Type -A
4	6	92	N/A	N/A	CC & BT	4.5	80 mm Interlocking	1	Left Side	0.45	N/A	N/A
5	8	88	N/A	N/A	CC & BT	3.5	60 mm Interlocking	1.2	Right Side	0.45	N/A	N/A
6	9	60	N/A	N/A	CC & BT	4	60 mm Interlocking	4.7	Left Side	0.45	Right Side	Type -C
7	12	112	N/A	N/A	CC & BT	5.5	80 mm Interlocking	4.3	Left Side	0.45	N/A	N/A
8	22	80	N/A	N/A	CC & BT	5.5	60 mm Interlocking	1.7	N/A	N/A	Right Side	Type -A

NOTE ON CROSS-SECTION DRAWINGS

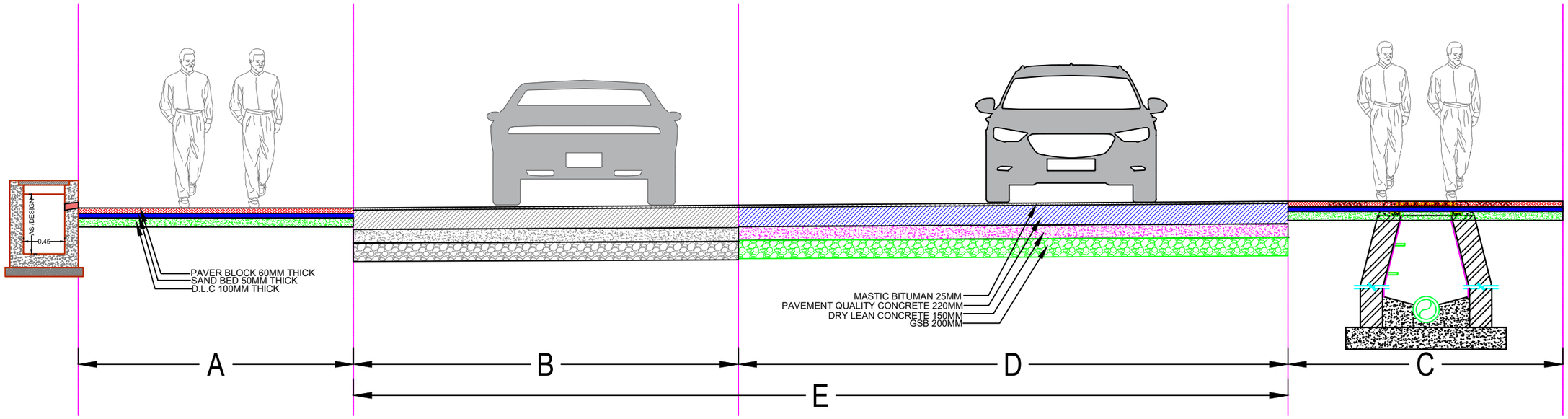
THE DRAWN CROSS-SECTIONS PROVIDED IN THIS DOCUMENT ARE TYPICAL REPRESENTATIONS MEANT FOR AN INDICATIVE UNDERSTANDING OF THE PLACEMENT OF VARIOUS ROAD COMPONENTS AND UNDERGROUND SERVICES. THESE DIAGRAMS ILLUSTRATE THE GENERAL ARRANGEMENT OF ELEMENTS SUCH AS THE CARRIAGEWAY, PEDESTRIAN PATHWAYS, DRAINAGE, SEWER LINES, AND OTHER UTILITIES.

FOR DETAILED CROSS-SECTIONAL SPECIFICATIONS, EXACT MEASUREMENTS, AND MATERIAL CONSIDERATIONS, KINDLY REFER TO THE ANNOTATED DATA IN THE RESPECTIVE TABLES. THE TABLES CONTAIN PRECISE INFORMATION ON WIDTH ALLOCATIONS, MATERIAL USAGE, DRAINAGE POSITIONS, AND SEWER PLACEMENTS SPECIFIC TO EACH ROAD TYPE AND CATEGORY.

SUBMITTED BY
WAPCOS
ROPEWAYS DIVISION, 2ND FLOOR, PLOT NO.- 62, INSTITUTIONAL AREA, SECTOR-18, GURGAON – 122015 (HARYANA)
PHONE: 0124-2977225
EMAIL: ROPEWAYS@WAPCOS.CO.IN

CLIENT	ARMOURED VEHICLES NIGAM LIMITED A GOVERNMENT OF INDIA ENTERPRISE, MINISTRY OF DEFENCE
PROJECT	COMPREHENSIVE UPGRADATION OF ROADS, PATHWAYS, & LANDSCAPING AT MTPF-AVNL AMBERNATH, MAHARASHTRA
DRAWING	TYPICAL CROSS SECTION OF PROPOSED UPGRADATIONS: FOR ROAD TYPE-A

SCALE NTS	DATE 23-01-2025	
DRAWN NITESH JAIN	CHECKED AJAY RATHORE	APPROVED
DRG. NO : RD/MH/AMBRT/20		REVISIONS 0



Road Widening Proposals

S.No.	Road No.	Road Length (m)	Left Side		Center				Right Side		Drain Laying	Drain Width (m)	Sewer Laying	Type of Manhole
			Material	Width (m) - A	Material	Existing Width (m) -B	Proposal Width(m) - D	Total C.W. (m) - E	Material	Width (m) - C				
1	4	100	Paver Retained	5	BT & CC	4.6	4.4	9	80 mm Interlocking	2	Left Side	0.45	Right Side	Type -A
2	11	48	80 mm Interlocking	4.95	BT & CC	5.5	5.5	11	80 mm Interlocking	1.2	Right Side	0.45	Left Side	Type -A
3	13	155	80 mm Interlocking	2.8	BT & CC	3.5	5.5	9	80 mm Interlocking	4.3	Both Side	0.45	Left Side	Type -B
4	14	154	80 mm Interlocking	0.8	BT & CC	3.5	5.5	9	80 mm Interlocking	1.9	Left Side	0.6	N/A	N/A
5	26A1	28	60 mm Interlocking	4	BT & CC	4	5	9	N/A	N/A	Right Side	1	N/A	N/A
6	26A2	28	N/A	N/A	BT & CC	4	5	9	60 mm Interlocking	6	Right Side	1	N/A	N/A
7	26B	50	N/A	N/A	BT & CC	5	11	16	60 mm Interlocking	6	Right Side	1	N/A	N/A
8	26C	32	N/A	N/A	BT & CC	5	11	16	60 mm Interlocking	1.88	Right Side	1	N/A	N/A

NOTE ON CROSS-SECTION DRAWINGS

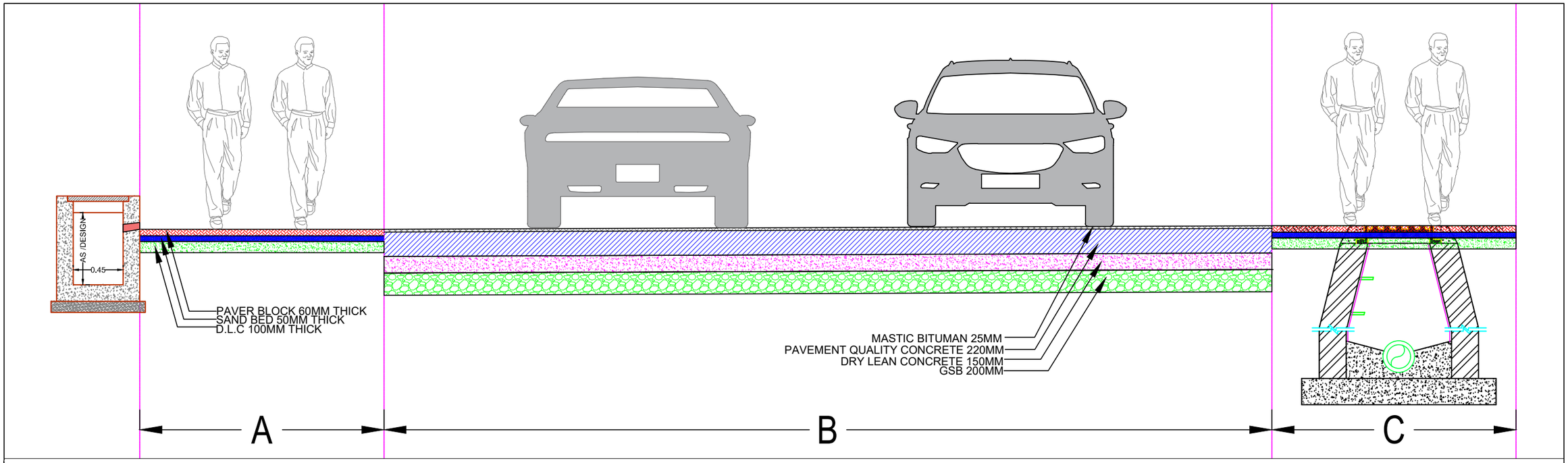
THE DRAWN CROSS-SECTIONS PROVIDED IN THIS DOCUMENT ARE TYPICAL REPRESENTATIONS MEANT FOR AN INDICATIVE UNDERSTANDING OF THE PLACEMENT OF VARIOUS ROAD COMPONENTS AND UNDERGROUND SERVICES. THESE DIAGRAMS ILLUSTRATE THE GENERAL ARRANGEMENT OF ELEMENTS SUCH AS THE CARRIAGEWAY, PEDESTRIAN PATHWAYS, DRAINAGE, SEWER LINES, AND OTHER UTILITIES.

FOR DETAILED CROSS-SECTIONAL SPECIFICATIONS, EXACT MEASUREMENTS, AND MATERIAL CONSIDERATIONS, KINDLY REFER TO THE ANNOTATED DATA IN THE RESPECTIVE TABLES. THE TABLES CONTAIN PRECISE INFORMATION ON WIDTH ALLOCATIONS, MATERIAL USAGE, DRAINAGE POSITIONS, AND SEWER PLACEMENTS SPECIFIC TO EACH ROAD TYPE AND CATEGORY.

SUBMITTED BY
WAPCOS
ROPEWAYS DIVISION, 2ND FLOOR, PLOT NO.- 62, INSTITUTIONAL AREA, SECTOR-18, GURGAON – 122015 (HARYANA)
PHONE: 0124-2977225
EMAIL: ROPEWAYS@WAPCOS.CO.IN

CLIENT	ARMOURED VEHICLES NIGAM LIMITED A GOVERNMENT OF INDIA ENTERPRISE, MINISTRY OF DEFENCE
PROJECT	COMPREHENSIVE UPGRADATION OF ROADS, PATHWAYS, & LANDSCAPING AT MTPF-AVNL AMBERNATH, MAHARASHTRA
DRAWING	TYPICAL CROSS SECTION OF PROPOSED UPGRADATIONS: FOR ROAD TYPE-B

SCALE NTS	DATE 23-01-2025		
DRAWN NITESH JAIN	CHECKED AJAY RATHORE	APPROVED	
DRG. NO : RD/MH/AMBRT/21		REVISIONS 0	



Road Redevelopment Proposals

S.No.	Road No.	Road Length (m)	Left Side		Center			Right Side		Drain Laying	Drain Width (m)	Sewer Laying	Type of Manhole
			Material	Width (m) - A	Material	Existing Width (m) -B	Proposal Width(m) - D	Material	Width (m) - C				
1	5	187	N/A	N/A	CC & BT	3.2	5	N/A	N/A	Left Side	0.45	Center	Type -C
2	7A	40	Earthen Pathway	2.4	CC & BT	2.8	5	60 mm Interlocking	1.7	Left Side	0.45	Center	Type -C
3	7B	90	60 mm Interlocking	1.75	CC & BT	2.8	5	60 mm Interlocking	0.9	Left Side	0.45	Right Side	Type -C
4	10	87	60 mm Interlocking	1.5	CC & BT	4.5	4.5	60 mm Interlocking	1.5	Left Side	0.45	N/A	N/A
5	19A	65	Garden Retained	N/A	CC & BT	6.5	6.5	60 mm Interlocking	2.3	N/A	N/A	N/A	Type -A
6	19B	59	N/A	N/A	CC & BT	3	3	60 mm Interlocking	3.5	N/A	N/A	N/A	Type -A
7	20	80	N/A	N/A	CC & BT	3	3	60 mm Interlocking	1.1	Right Side	0.45	N/A	N/A
8	23	107	60 mm Interlocking	2	CC & BT	8	11	60 mm Interlocking	3	N/A	N/A	Left Side	Type -B
9	24	107	60 mm Interlocking	3	CC & BT	11	11	60 mm Interlocking	3	Both Side	0.45	N/A	N/A
10	25	155	60 mm Interlocking	2.2	CC & BT	3.3	3.3	60 mm Interlocking	2.25	Right Side	0.45	N/A	N/A
11	29	45	N/A	N/A	CC & BT	3	3	N/A	N/A	Right Side	0.45	N/A	N/A

NOTE ON CROSS-SECTION DRAWINGS

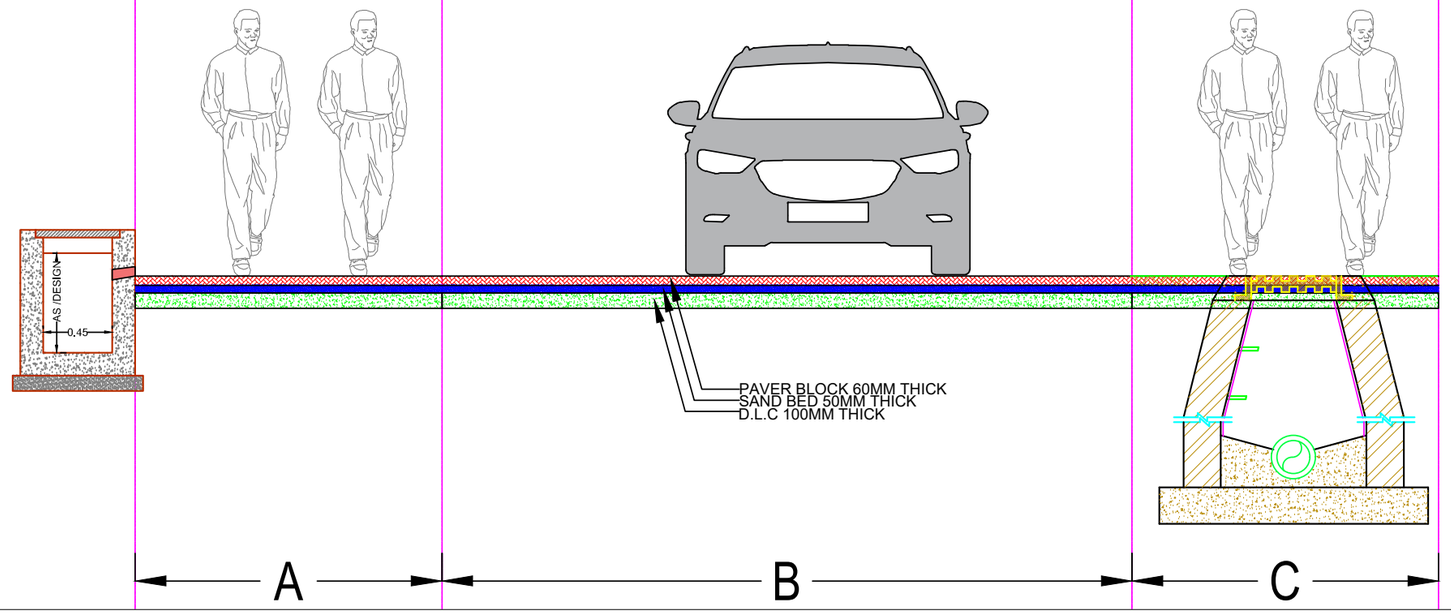
THE DRAWN CROSS-SECTIONS PROVIDED IN THIS DOCUMENT ARE TYPICAL REPRESENTATIONS MEANT FOR AN INDICATIVE UNDERSTANDING OF THE PLACEMENT OF VARIOUS ROAD COMPONENTS AND UNDERGROUND SERVICES. THESE DIAGRAMS ILLUSTRATE THE GENERAL ARRANGEMENT OF ELEMENTS SUCH AS THE CARRIAGEWAY, PEDESTRIAN PATHWAYS, DRAINAGE, SEWER LINES, AND OTHER UTILITIES.

FOR DETAILED CROSS-SECTIONAL SPECIFICATIONS, EXACT MEASUREMENTS, AND MATERIAL CONSIDERATIONS, KINDLY REFER TO THE ANNOTATED DATA IN THE RESPECTIVE TABLES. THE TABLES CONTAIN PRECISE INFORMATION ON WIDTH ALLOCATIONS, MATERIAL USAGE, DRAINAGE POSITIONS, AND SEWER PLACEMENTS SPECIFIC TO EACH ROAD TYPE AND CATEGORY.

SUBMITTED BY
WAPCOS
ROPEWAYS DIVISION, 2ND FLOOR, PLOT NO.- 62, INSTITUTIONAL AREA, SECTOR-18, GURGAON – 122015 (HARYANA)
PHONE: 0124-2977225
EMAIL: ROPEWAYS@WAPCOS.CO.IN

CLIENT	ARMOURED VEHICLES NIGAM LIMITED A GOVERNMENT OF INDIA ENTERPRISE, MINISTRY OF DEFENCE
PROJECT	COMPREHENSIVE UPGRADATION OF ROADS, PATHWAYS, & LANDSCAPING AT MTPF-AVNL AMBERNATH, MAHARASHTRA
DRAWING	TYPICAL CROSS SECTION OF PROPOSED UPGRADATIONS: FOR ROAD TYPE-C

SCALE NTS	DATE 23-01-2025		
DRAWN NITESH JAIN	CHECKED AJAY RATHORE	APPROVED	
DRG. NO : RD/MH/AMBRT/22		REVISIONS 0	



80 mm thick Interlocking Paver Proposal as Carriage Way

S.No.	Road No.	Road Length (m)	Left Side		Center		Right Side		Drain Laying	Drain Width (m)	Sewer Laying	Type of Manhole
			Material	Width (m) - A	Material	Proposal Width(m) - B	Material	Width (m) - C				
1	15	210	N/A	N/A	80 mm Interlocking	4.5	80 mm Interlocking	2	Right Side	0.6	Center	Type -C
2	16	52	N/A	N/A	80 mm Interlocking	4.5	N/A	N/A	Left Side	0.45	N/A	N/A
3	17	145	N/A	N/A	80 mm Interlocking	4.5	N/A	N/A	Right Side	0.45	N/A	N/A
4	18	170	N/A	N/A	80 mm Interlocking	5.9	N/A	N/A	Right Side	0.45	Left Side	Type -A
5	21	83	N/A	N/A	80 mm Interlocking	11	N/A	N/A	Right Side	0.45	Left Side	Type -A
6	27	45	80 mm Interlocking	1.5	80 mm Interlocking	4.5	N/A	N/A	Right Side	0.45	N/A	N/A
7	28	65	N/A	N/A	80 mm Interlocking	3	80 mm Interlocking	2	Right Side	0.45	N/A	N/A

NOTE ON CROSS-SECTION DRAWINGS

THE DRAWN CROSS-SECTIONS PROVIDED IN THIS DOCUMENT ARE TYPICAL REPRESENTATIONS MEANT FOR AN INDICATIVE UNDERSTANDING OF THE PLACEMENT OF VARIOUS ROAD COMPONENTS AND UNDERGROUND SERVICES. THESE DIAGRAMS ILLUSTRATE THE GENERAL ARRANGEMENT OF ELEMENTS SUCH AS THE CARRIAGEWAY, PEDESTRIAN PATHWAYS, DRAINAGE, SEWER LINES, AND OTHER UTILITIES.

FOR DETAILED CROSS-SECTIONAL SPECIFICATIONS, EXACT MEASUREMENTS, AND MATERIAL CONSIDERATIONS, KINDLY REFER TO THE ANNOTATED DATA IN THE RESPECTIVE TABLES. THE TABLES CONTAIN PRECISE INFORMATION ON WIDTH ALLOCATIONS, MATERIAL USAGE, DRAINAGE POSITIONS, AND SEWER PLACEMENTS SPECIFIC TO EACH ROAD TYPE AND CATEGORY.

SUBMITTED BY
WAPCOS
ROPEWAYS DIVISION, 2ND FLOOR, PLOT NO.- 62, INSTITUTIONAL AREA, SECTOR-18, GURGAON – 122015 (HARYANA)
PHONE: 0124-2977225
EMAIL: ROPEWAYS@WAPCOS.CO.IN

CLIENT	ARMOURED VEHICLES NIGAM LIMITED A GOVERNMENT OF INDIA ENTERPRISE, MINISTRY OF DEFENCE
PROJECT	COMPREHENSIVE UPGRADATION OF ROADS, PATHWAYS, & LANDSCAPING AT MTPF-AVNL AMBERNATH, MAHARASHTRA
DRAWING	TYPICAL CROSS SECTION OF PROPOSED UPGRADATIONS: FOR ROAD TYPE-A

SCALE NTS	DATE 23-01-2025	
DRAWN NITESH JAIN	CHECKED AJAY RATHORE	APPROVED
DRG. NO : RD/MH/AMBRT/23		REVISIONS 0