



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)
National Highways Authority of India
(Ministry of Road Transport & Highways, Government of India)
क्षेत्रीय कार्यालय, मदुरै / Regional Office, Madurai

दूसरा व तीसरी तल, विजय कृष्ण प्लाज़ा, संख्या-1, लेक एरिया, मेलूर मेन रोड, माट्टुतावनी, मदुरै- 625 107
2nd & 3rd Floor, Vijay Krishna Plaza, No.1, Lake Area, Melur Main Road, Mattuthavani, Madurai-625 107
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NHAI/15018/3.8/01/2024/RO Madurai/E-234234/174

15th February, 2024

INVITATION OF PUBLIC COMMENTS

विषय: भाराराप्रा - क्षे.का. मदुरै- पकाई, रामनाथपुरम - Proposal for laying of water pipeline in NH-49 (Madurai- Ramanathapuram Section) along the road from Km 48+330 to Km 50+000 (LHS) , Km 50+000 to Km 51+000 (RHS), Km 52+200 to Km 57+400 (RHS) and crossing at Km 50+000 for a total length of 9793m (Along length = 9750m by open trench & across length = 43m by HDD method- Invitation of Public Comments - Reg.

प्रसंग: PD, Ramanathapuram, Note #01 - E-234234 dated 27.12.2023.

The proposal received from PD, Ramanathapuram vide Note#01 dt.27.12.2024 there by requesting permission for Laying of Water Supply Pipeline along from Km 48+330 to Km 50+000 (LHS) , Km 50+000 to Km 51+000 (RHS), Km 52+200 to Km 57+400 (RHS) and crossing at Km 50+000 in the state of Tamil Nadu as proposed Executive Engineer, TWAD Board, RWS Division, Ramanathapuram.

Accordingly, as per Policy Guidelines issued by Ministry vide letter No. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016, the application is being uploaded on public domain for 30 days for seeking claims and objections (on grounds of public inconvenience, safety and general public interest).

In view of the above, comments of the public on the above proposal is invited to the below mentioned address:

Regional Officer,
National Highways Authority of India,
No.2nd & 3rd Floor, Vijay Krishna Plaza,
No.1, Lake Area, Melur Main Road, Mattuthavani,
Madurai - 625 007.

MAHENDRA MEENA Digitally signed by
MAHENDRA MEENA
Date: 2024.02.15 17:47:59
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महेन्द्र मीना | Mahendra Meena
प्रबंधक (तक) | Manager (Tech)

संलग्न: As above

प्रतिलिपि:

1. The NIC, New Delhi - for uploading in the Ministry's website.
2. The PD, Ramanathapuram- for information.

Application Details [20230915/1/7/20100/3550]	
Highway	NH49 [NH49]
Name of Highway Authority	
Highway Administration Address	
Whether the Fuel Station is part of Rest-area complex	No
Name of Applicant/Oil Company	Tamilnadu Water Supply And Drainage Board Address: Tamilnadu Water Supply And Drainage Board RWS Division Ramanathapuram , RAMANATHAPURAM (TAMIL NADU), PIN: 623503 Phn: 9443883378 Email: kalaiarasankb@gmail.com
Application Category	Public Utility
Utility	Water
State	TAMIL NADU
Type	New
Remarks	PROPOSAL FOR LAYING OF WATER PIPE LINE IN NH-49 (MADURAI – RAMANATHAPURAM SECTION) ALONG THE ROAD FROM KM.46/450 TO KM.50/000 (LHS), KM.50/000 TO KM.51/000 (RHS), KM.52/200 TO KM.57/400 (RHS) AND CROSSING @ KM.50/000 FOR A TOTAL LENGTH OF 9793M (ALONG LENGTH=9750M BY OPEN TRENCH & ACROSS LENGTH=43M BY HDD METHOD)
Submitted On	28 Nov 2023 15:17:35

Details		
1. Length in Meters *		9793
2. Width of available ROW		
I. Left side from center line towards increasing chainage OR km direction *		22.50 meters
II. Right side from center line towards increasing chainage OR km direction *		22.50 meters
3. Proposal to lay the utility		
I. Left side from center line towards increasing chainage OR km direction *		21.50 meters
II. Right side from center line towards increasing chainage OR km direction *		21.50 meters
4. Proposal to acquire the land		
I. Left side from center line *		0
II. Right side from center line *		0
5. Whether proposal is in the same side where land is not to be acquired *		No
If not then where to lay the cable *		NA
6. Details of already laid services if any along the proposed route *		NIL
7. Number of Existing lanes *		4 Lane
8. Proposed number of lanes *		6 Lane

<p>9. Service road Exists *</p>		<p>Yes</p>
<p>10. Proposed Service road</p>		
<p>Left side from center line</p>		<p>NIL</p>
<p>Right side from center line</p>		<p>NIL</p>
<p>11. Whether proposal to lay cable is after the service road or between the service road and main carriageway *</p>		<p>Extreme Edge of ROW</p>
<p>12. Whether carrying OFC Cable has been proposed on highway /bridges, If yes then mention the methodology proposed for the same *</p>		<p>Yes,Laying only earthen shoulder</p>
<p>13. Is crossing of the road involved? If Yes, is shall be either encased in pipes or through structure of conduits specially built for the purpose at the expense of the agency owing the line *</p>		<p>Yes</p>
<p>I. Whether the existing drainage structures are allowed to carry utility pipeline. *</p>		<p>Yes,Laying only earthen shoulder</p>
<p>II. Is it on a line normal to NH? *</p>		<p>Yes</p>
<p>III. What is the distance of crossing the utility pipelines from the existing structure? Crossings shall not be too near the existing structures on the National Highway, the minimum distance being 15 mtrs. *</p>		<p>15.00</p>

IV. The casing pipe (or conduit pipe in the case of electric cable) line carrying the utility line shall be of steel, cast iron or reinforced concrete and have adequate strength and be large enough to permit ready withdrawal of carrier pipe/cable Mention type of casting. *		YES
V. Ends of the casing/conduit pipe shall be sealed from outside, so that it does not act as a drainage path *		YES
VI. The casing/conduit pipe should be as minimum extend from drain in cuts toe of slope in fills. *		YES
VII. The installation of Casing pipe shall be as per attachment-1 of Ministry's Guidelines dated 22.11.2016 *		YES
VIII. Mention the methodology proposed for crossing of road for the proposed sewerage / gas pipeline crossing shall be boring method (HDD) (Trenchless Technology) specially where the existing road pavement is of cement concrete of dense bituminous concrete type. *		YES

14. Whether the proposal satisfies the following:

<p>I. Where the ROW is more than 45 M then the duct cable shall be laid at the edge of right of way within the utility corridor of 2 M width, duly keeping in view the future widening. *</p>		YES
<p>II. Where land is yet to be acquired for 4 laning and the position of new carriageway has been decided then the cable shall be laid at the edge of right of way within the utility corridor of 2 M width, on that side of existing carriageway where extra land is not proposed to be acquired for 4 laning. *</p>		YES
<p>III. Where the widening plan for 4 laning is not yet decided and available ROW is around 30 M or less, a judicious decision would need to be taken for permitting the laying of cable/duct. This could be within 1.5 M to 2m of utility corridor at the edge of existing ROW, duly keeping in view the possible widening plans. *</p>		YES

<p>IV. Where ROW is restricted and adequate only to accommodate the carriageway, central verge, shoulders and drains (e.g. Highways in cutting through hilly/rolling terrain), the cable shall be laid clear of the drain. *</p>		<p>YES</p>
<p>V. Where land strip for utility corridor can't be conveniently earmarked (available ROW restricted to the toe of the embankment) for laying of cable/ducts, the permission may be refused. *</p>		<p>YES</p>
<p>15. Document/Drawings enclosed with the proposal *</p>		<p>Yes</p>
<p>I. Cross section showing the size of trench for open trenching method (is it normal size of 1.2m (min.) deep x 0.3 wide) *</p>		<p>YES</p>
<p>II. Cross section showing the size of pit and location of cable for HDD method *</p>		<p>YES</p>
<p>III. Strip plan/ Route plan showing the OFC, Chainage width of ROW, distance of proposed, cable from the edge of ROW, important mile stone, intersections, cross drainage works etc. *</p>		<p>YES</p>
<p>IV. Methodology of laying of the Utility Pipeline/OFC *</p>		<p>YES</p>

<p>V. Open trenching method (may be allowed in utility corridor only where pavement is neither cement concrete nor dense bituminous concrete type) If yes what is the Methodology of refilling of trench *</p>		YES
<p>(a) The trench width should be at least 30 cms but not more than 60 cms wider than the outer diameter of the pipe *</p>		YES
<p>(b) For filling of the trench, bedding shall be to a depth of not less than 30 cms. It shall consist of granular material, free of lumps, clods, cobbles and graded to yield firm surface without sudden change in the bearing value, unsuitable soil and rock edges should be excavated and replaced by selected material *</p>		YES
<p>(c) The backfill shall be completed in two stages, i) Side fill to the level of the top of the pipe and ii) Overfill to the bottom of the road crust *</p>		YES

(d) The side fill shall consist of granular material laid in 15 cms, layers each consolidated by mechanical tampering and controlled addition of moisture to 95% of the proctor density. Overfill shall be compacted to the same density as the material that has been removed. *		YES
(e) The road crust shall be built to the same strength as existing crust on either side of the trench. Care shall be taken to avoid the formation of a dip at the trench. *		YES
(f) The excavation shall be protected by flagman, signs and barricades and red lights during night hours. *		YES
(g) If required, a diversion shall be constructed at the expense of agency owing the utility line. *		YES
VI. Horizontal Directional Drilling (HDD) Method *		YES
VII. Laying OFC through CD Works and Method of laying (Whether to be hung outside parapet). *		NO
16. Draft license Agreement signed by two witnesses. *		YES

I. The license fee estimate as per Ministry's guidelines issued vide circular no. RW/NH/33044/29/2015/S&R dated 22.11.2016. *		YES
17. Whether Performance Bank Guarantee is as per Ministry's guidelines issued vide circular no. RW/NH/33044/29/2015/S&R, dated 22.11.2016. *		Yes
I. Confirmation of BG has been obtained as per MoRTH guidelines *		Yes
18. Affidavit/Undertaking from the Applicant for following is to be furnished		
a) Undertaking not to Damage to other utility, if damage then to pay the losses either to NHAI or the concerned agency. *		Yes
b) Undertaking Renewal of Bank Guarantee as and when asked by MoRTH. *		Yes
c) Undertaking Confirming all standard condition of Ministry's guidelines. *		Yes
d) Undertaking for indemnity against all damages and claims *		Yes
e) Undertaking for management of traffic movement during laying of utility line without hampering the traffic *		Yes

f) Undertaking that if any claim is raised by the concessionaire/ contractor then the same has to be paid by the applicant. *		Yes
g) Undertaking that prior approval of the NHAI shall be obtained before undertaking any work of installation, shifting or repairs, or alteration to the utility located in the National Highway Right of Ways. *		Yes
h) Undertaking that expenditure is any incurred by NHAI for repairing any damage cause to the NH by laying, maintenance of shifting of the utility line will be borne by the applicant agency owing the line. *		Yes
i) Undertaking that text of the license deal is as per verbatim of format issued by MoRTH vide circular no. RW/NH/33044/29/2015/S&R dated 22.11.2016 *		Yes
j) Undertaking for shifting of utility as and when asked by MoRTH/ NHAI. *		Yes
k) Certificate from the applicant in the following format		
l) We do undertake that I/we will relocate service road/approach road/utilities at my/our own cost notwithstanding the permission granted within such time us will be stipulated by NHAI for future six laning or/any other development		

<p>19. Who will sign the agreement on behalf of Applicant agency? Power of Attorney to sign the agreement is available or not.</p> <p>*</p>		<p>THE EXECUTIVE ENGINEER, Tamilnadu Water Supply And Drainage Board RWS Division, Ramanathapuram.</p>
<p>20. The Power of Attorney is in favour of authorized signatory? *</p>		<p>Yes</p>

Locations						
Sno	State	District	Highway /Stretch	Start Point	End Point	View
1	TAMIL NADU	SIVAGANGA	NH49 [NH49] (0.000-183.200) From Km: 46.45 To Km: 57.4	Chainage Point: 46.45 Lat: 9.698 Lng: 78.447	Chainage Point: 57.4 Lat: 9.592 Lng: 78.453	View

Documents				
Sno	Stage	Document	Mandatory	Action
1	Under Submission	Layout and Drawings	Yes	View
2	Under Submission	Any Other Supporting Document	No	--
3	Under Submission	Any Document to indicate commercial activities are allowed on the land.	No	--
4	Under Submission	Safety Clearance from Directorate of Electricity	No	--
5	Under Submission	Safety Clearance from Chief Controller of Explosives	No	--
6	Under Submission	Safety Clearance from Petroleum and Explosives Safety Organisation	No	--
7	Under Submission	Safety Clearance from Oil Industry Safety Directorate	No	--
8	Under Submission	Safety Clearance from State/Central Pollution Control Board	No	--
9	Under Submission	Any Other Statutory Clearance as applicable	No	--

Applicable Fee Details					
Sno	Fee Head	Stage	Fee	Amount	Status
1	Utility Fees	Technical Approval	License Fees	311154.77	

Location Details

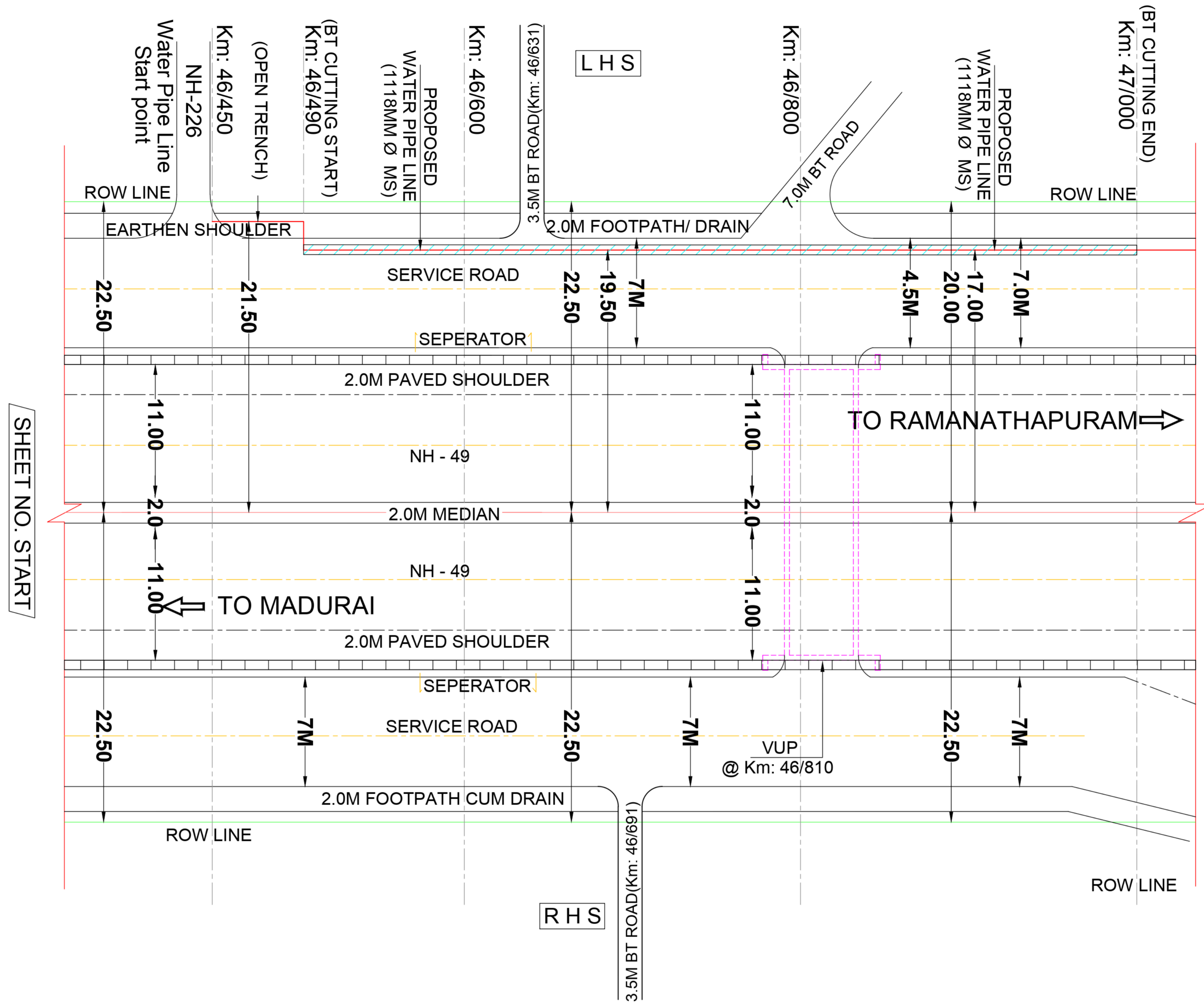
State	TAMIL NADU
District	SIVAGANGA
Sub District	Manamadurai
Villages	Manamadurai
Highway Category	4 Lane
Highway	NH49
Km	From: 46.45 To: 57.4
Stretch	0.000 183.200
Start Point	Side: LHS Chainage Point 46.45 KM Lat 9.698 Lng: 78.447
End Point	RHS Chainage Point 57.4 KM Lat: 9.592 Lng: 78.453

Crossings

Chainage Point	LAT	LNG	Details of Existing Utility	Utility Ducts Available	Details
50	9.668	78.448		No	Not Applicable

Total Utilized NH Land Area	10900.5" Sq/m (Outer Diameter/Width of the concerned Utility line X length)
Circle Rate	Rs 173

Total Length (Mtr)	LHS: 3550 RHS: 6200 Across: 43
No. of Survey Nos	10.00
View Survey No. List	View File
Remarks	NH-49 (MADURAI – RAMANATHAPURAM SECTION) ALONG THE ROAD FROM KM.46/450 TO KM.50/000 (LHS), KM.50/000 TO KM.51/000 (RHS), KM.52/200 TO KM.57/400 (RHS) AND CROSSING @ KM.50/000 FOR A TOTAL LENGTH OF 9793M (ALONG LENGTH=9750M BY OPEN TRENCH & ACROSS LENGTH=43M BY HDD METHOD)



SHEET NO. START

- LEGEND:**
- - PROPOSED WATER PIPE LINE
 - - BT ROAD
 - - - - CENTER LINE OF CARRIAGEWAY
 - - CENTER LINE OF ROAD
 - - BOUNDARY (ROW)
 - - - - BRIDGE / CULVERT

MADURAI TO RAMANATHAPURAM SECTION (NH - 49)

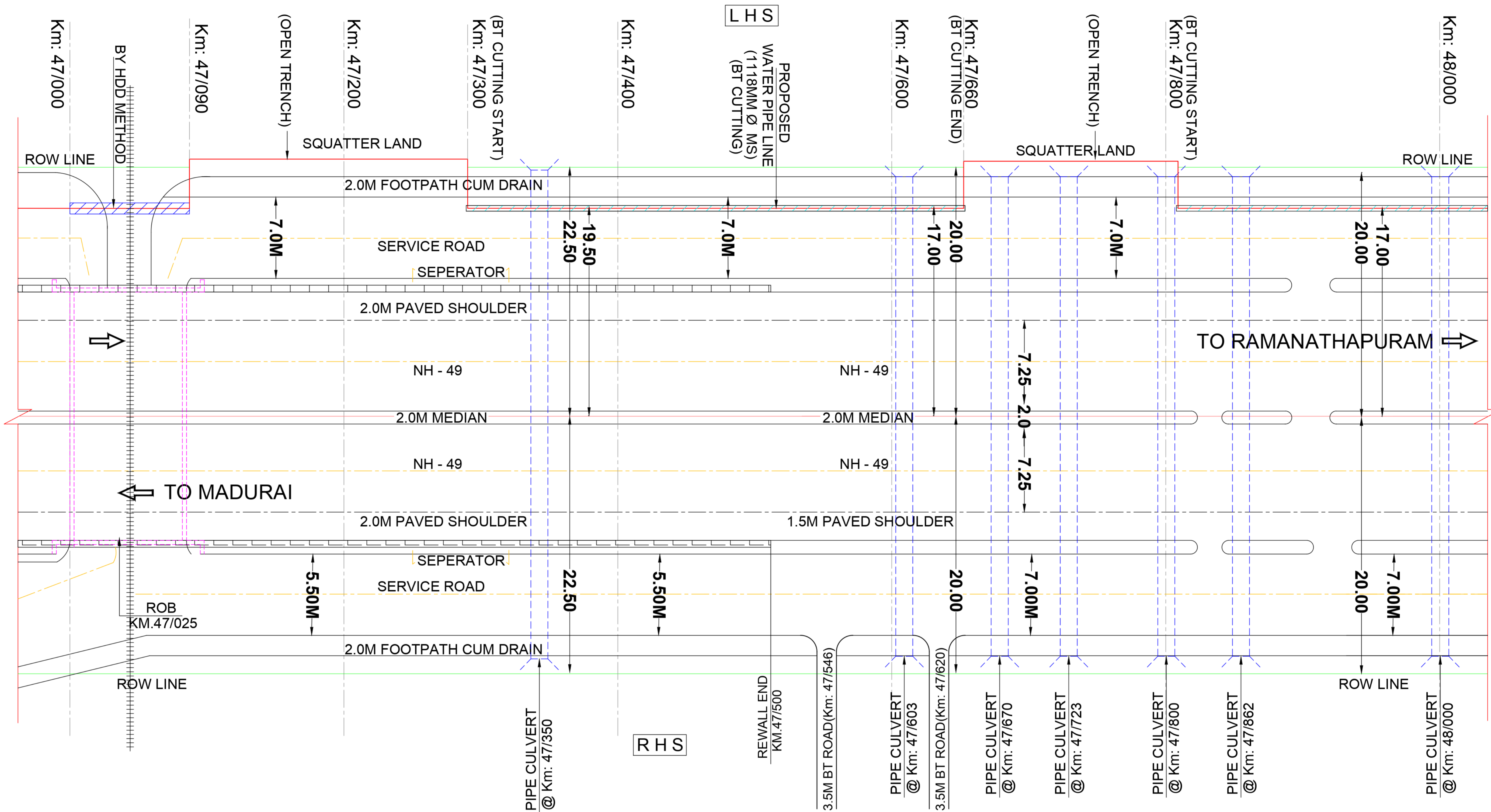
(Km: 46/450 TO Km: 47/000)

APPLICANT:

[Signature]
EXECUTIVE ENGINEER
 (TWAD Board) R.W.S. Division,
 RAMANATHAPURAM.

THE EXECUTIVE ENGINEER
 Tamilnadu Water Supply And Drainage Board
 RWS Division,
 Ramanathapuram

- NOTES:**
1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED
 2. SECTION LENGTH - 0.55Km
 3. SCALE - NTS



- LEGENT:**
- - PROPOSED WATER PIPE LINE
 - - BT ROAD
 - - - - CENTER LINE OF CARRIAGEWAY
 - - - - CENTER LINE OF ROAD
 - - BOUNDARY (ROW)
 - - - - BRIDGE / CULVERT

MADURAI TO RAMANATHAPURAM SECTION (NH - 49)

(Km: 47/000 TO Km: 48/000)

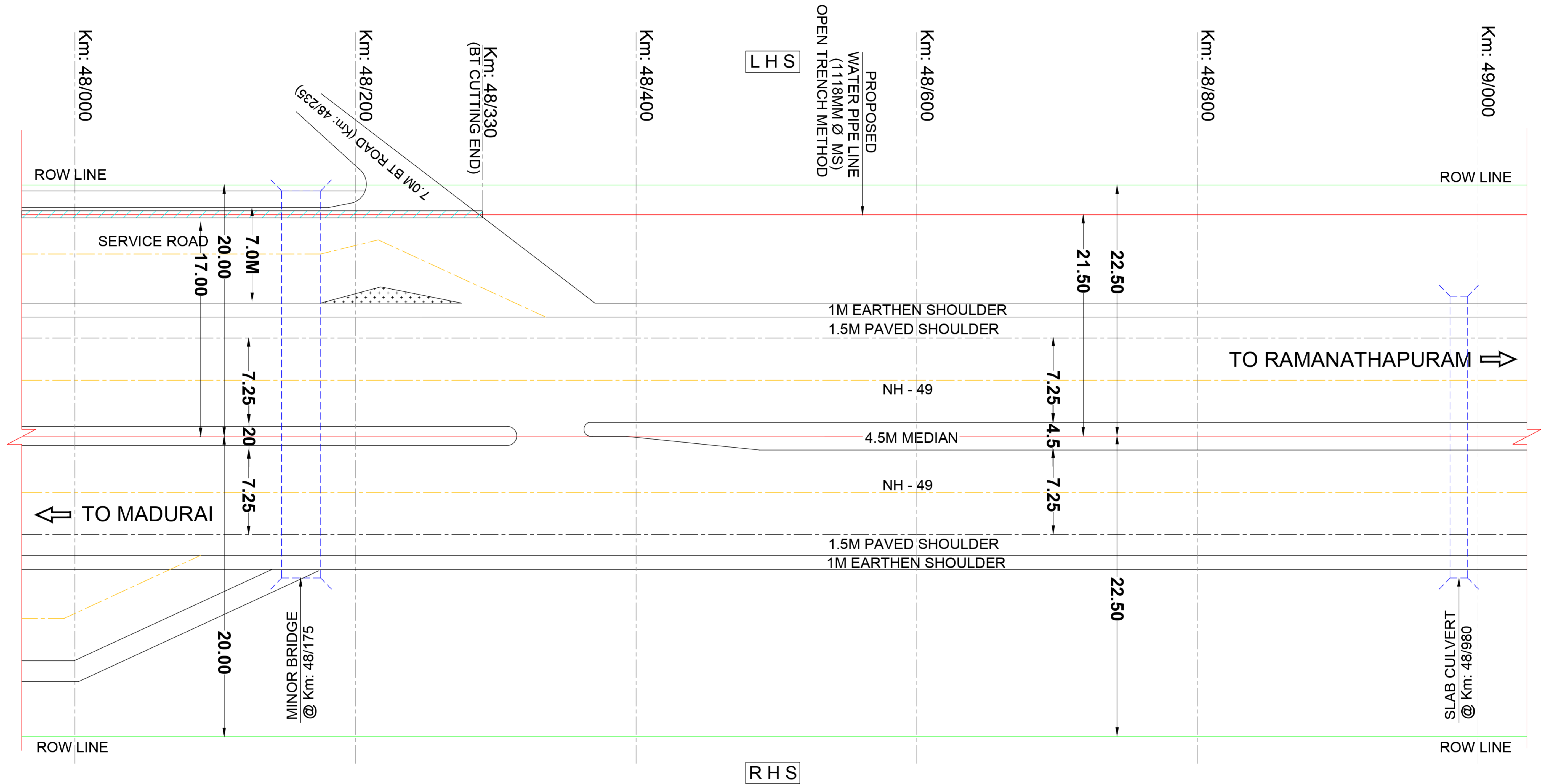
APPLICANT:

[Signature]
EXECUTIVE ENGINEER
 (TWAD Board) R.W.S. Division,
 RAMANATHAPURAM.

THE EXECUTIVE ENGINEER
 Tamilnadu Water Supply And Drainage Board
 RWS Division,
 Ramanathapuram

NOTES:

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED
2. SECTION LENGTH - 1Km
3. SCALE - NTS



LEGENT:

- - PROPOSED WATER PIPE LINE
- - BT ROAD
- - - - CENTER LINE OF CARRIAGEWAY
- - CENTER LINE OF ROAD
- - BOUNDARY (ROW)
- - - - BRIDGE / CULVERT

MADURAI TO RAMANATHAPURAM SECTION (NH - 49)

(Km: 48/000 TO Km: 49/000)

APPLICANT:

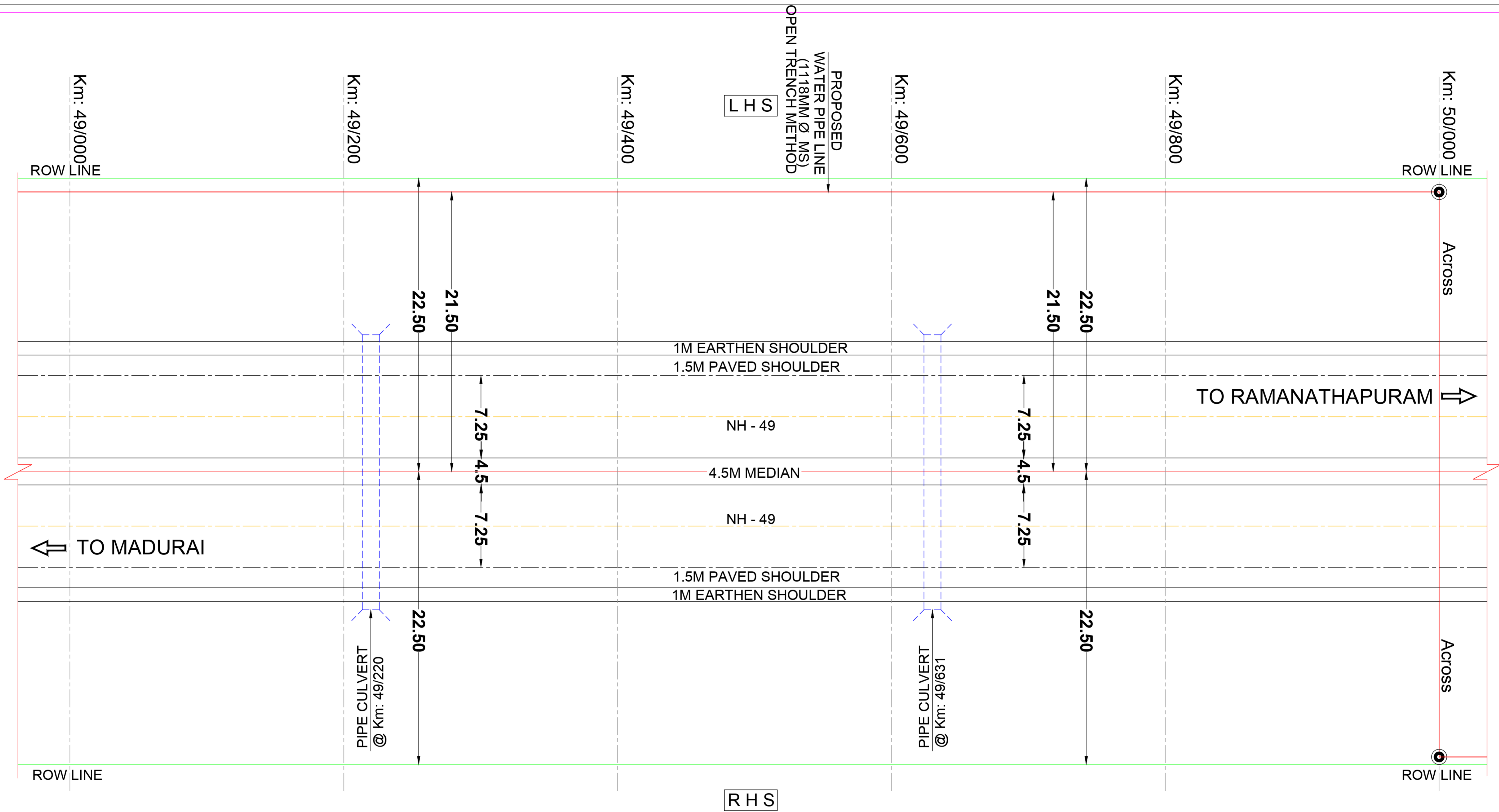
[Signature]
EXECUTIVE ENGINEER
 (TWAD Board) R.W.S. Division,
 RAMANATHAPURAM.

THE EXECUTIVE ENGINEER

Tamilnadu Water Supply And Drainage Board
 RWS Division,
 Ramanathapuram

NOTES:

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- LEGEND:**
- - PROPOSED WATER PIPE LINE
 - - BT ROAD
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 - - CENTER LINE OF ROAD
 - - BOUNDARY (ROW)
 - - - - BRIDGE / CULVERT

MADURAI TO RAMANATHAPURAM SECTION (NH - 49)

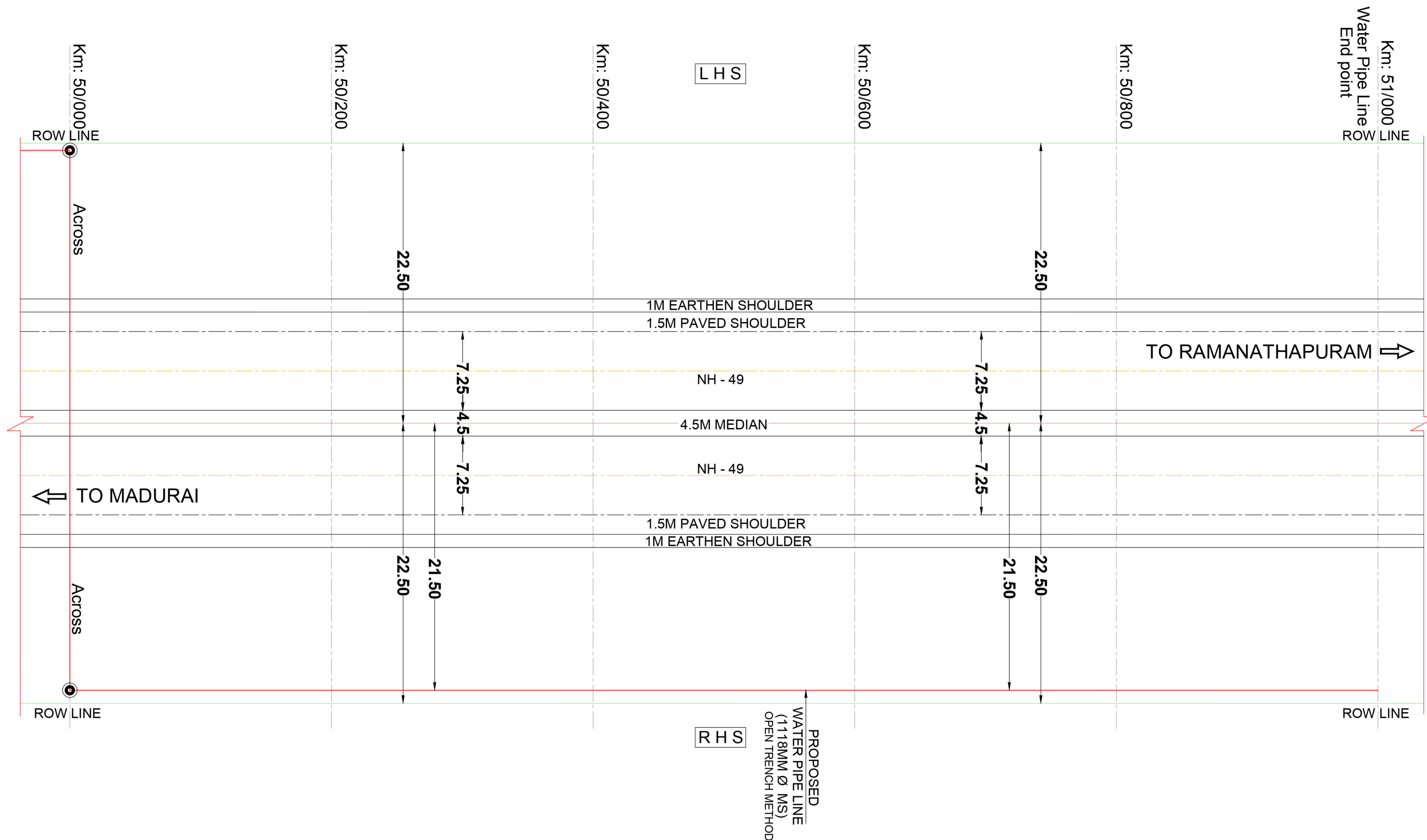
(Km: 49/000 TO Km: 50/000)

APPLICANT:

[Signature]
EXECUTIVE ENGINEER
 (TWAD Board) R.W.S. Division,
 RAMANATHAPURAM.

THE EXECUTIVE ENGINEER
 Tamilnadu Water Supply And Drainage Board
 RWS Division,
 Ramanathapuram

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 3. SCALE - NTS



- LEGEND:**
- - PROPOSED WATER PIPE LINE
 - - BT ROAD
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 - - - - BRIDGE / CULVERT

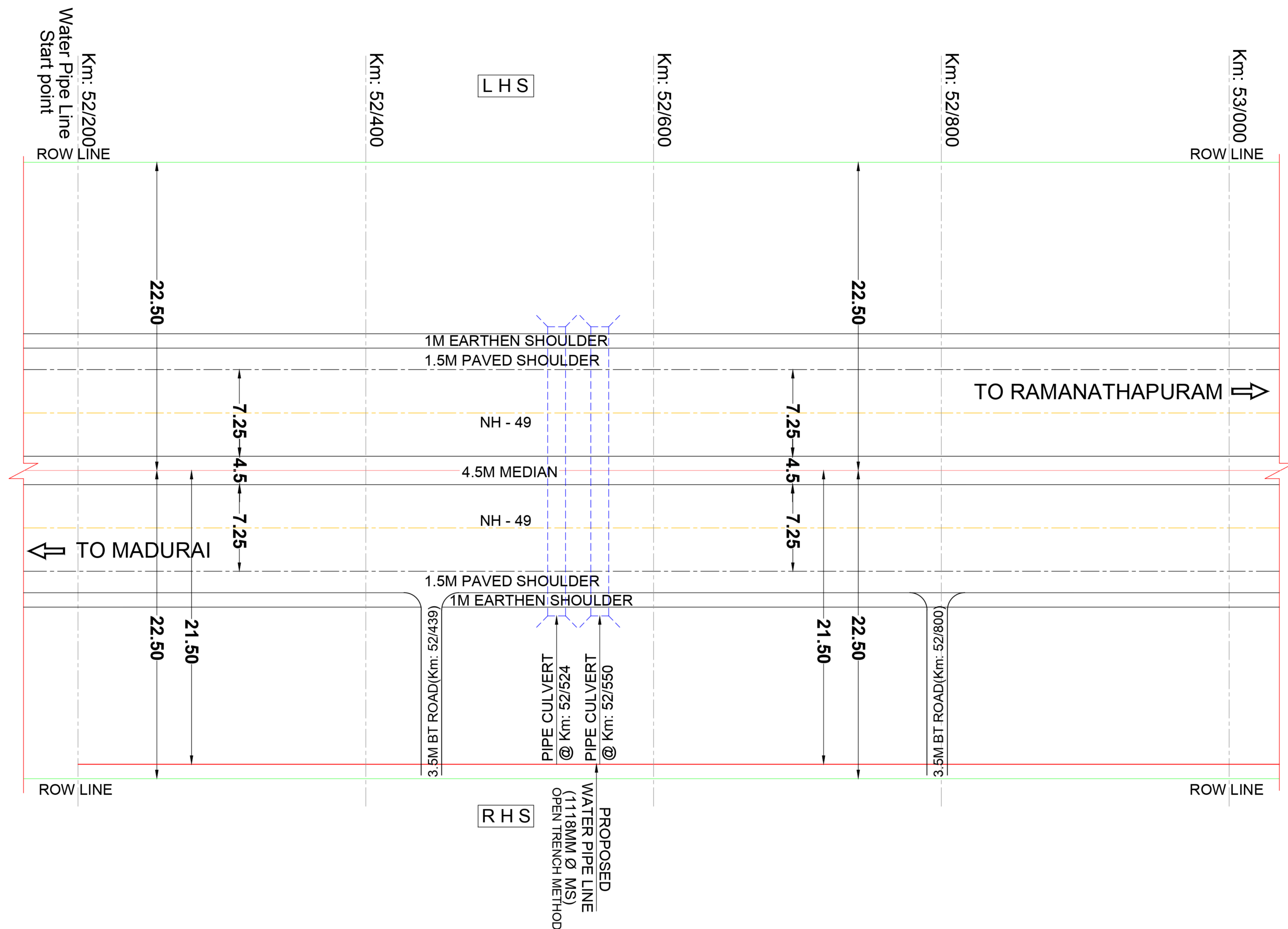
MADURAI TO RAMANATHAPURAM SECTION (NH - 49)
(Km: 50/000 TO Km: 51/000)

APPLICANT:

[Signature]
EXECUTIVE ENGINEER
(TWAD Board) R.W.S. Division,
RAMANATHAPURAM.

THE EXECUTIVE ENGINEER
Tamilnadu Water Supply And Drainage Board
RWS Division,
Ramanathapuram

- NOTES:**
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 3. SCALE - NTS



LEGENT:

	- PROPOSED WATER PIPE LINE
	- BT ROAD
	- CENTER LINE OF CARRIAGEWAY
	- CENTER LINE OF ROAD
	- BOUNDARY (ROW)
	- BRIDGE / CULVERT

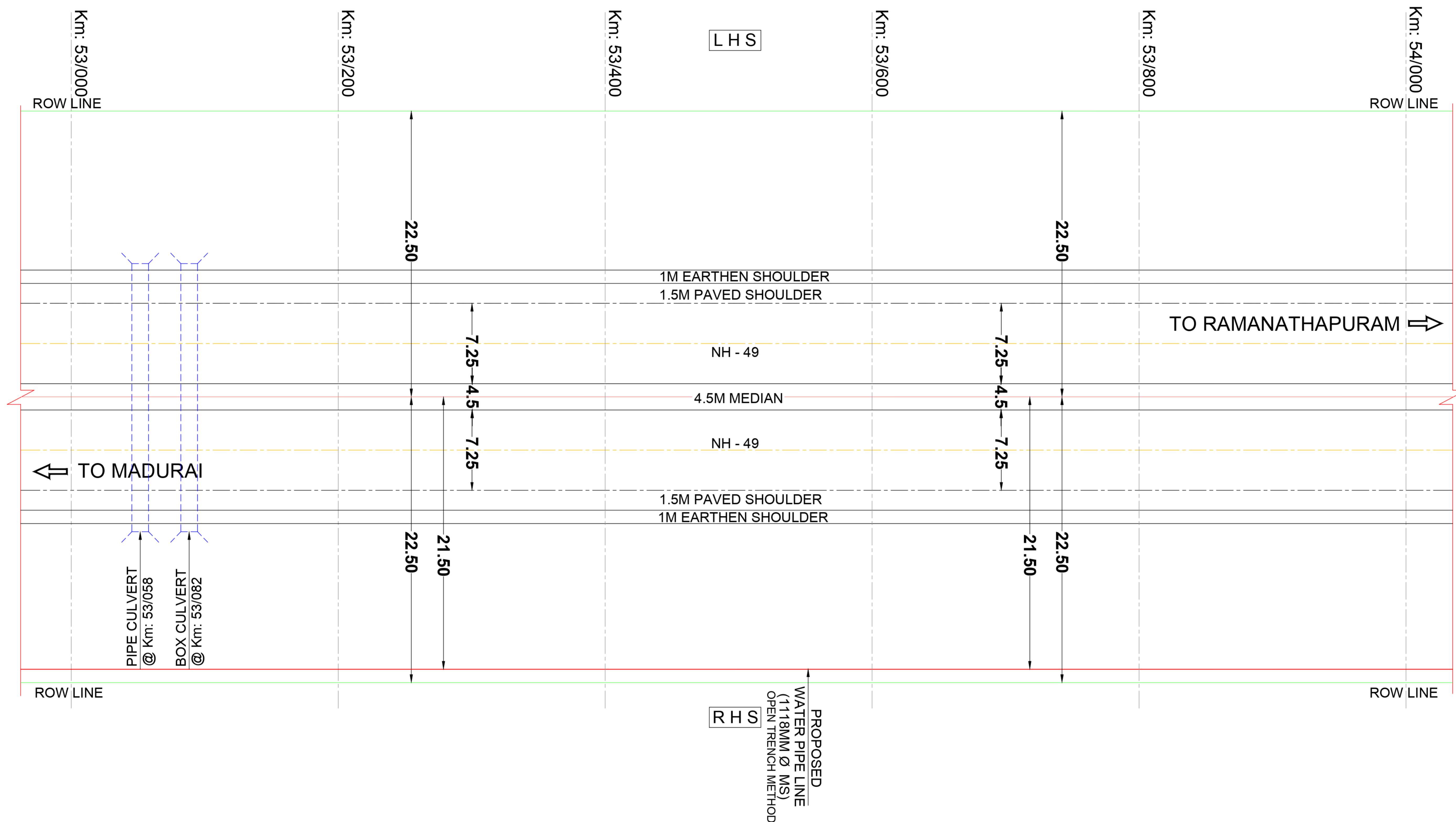
MADURAI TO RAMANATHAPURAM SECTION (NH - 49)
(Km: 52/200 TO Km: 53/000)

APPLICANT:

EXECUTIVE ENGINEER
(TWAD Board) R.W.S. Division,
RAMANATHAPURAM.

THE EXECUTIVE ENGINEER
Tamilnadu Water Supply And Drainage Board
RWS Division,
Ramanathapuram

- NOTES:**
1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED
 2. SECTION LENGTH - 0.8Km
 3. SCALE - NTS



- LEGEND:**
- - PROPOSED WATER PIPE LINE
 - - BT ROAD
 - - - - CENTER LINE OF CARRIAGEWAY
 - - CENTER LINE OF ROAD
 - - BOUNDARY (ROW)
 - - - - BRIDGE / CULVERT

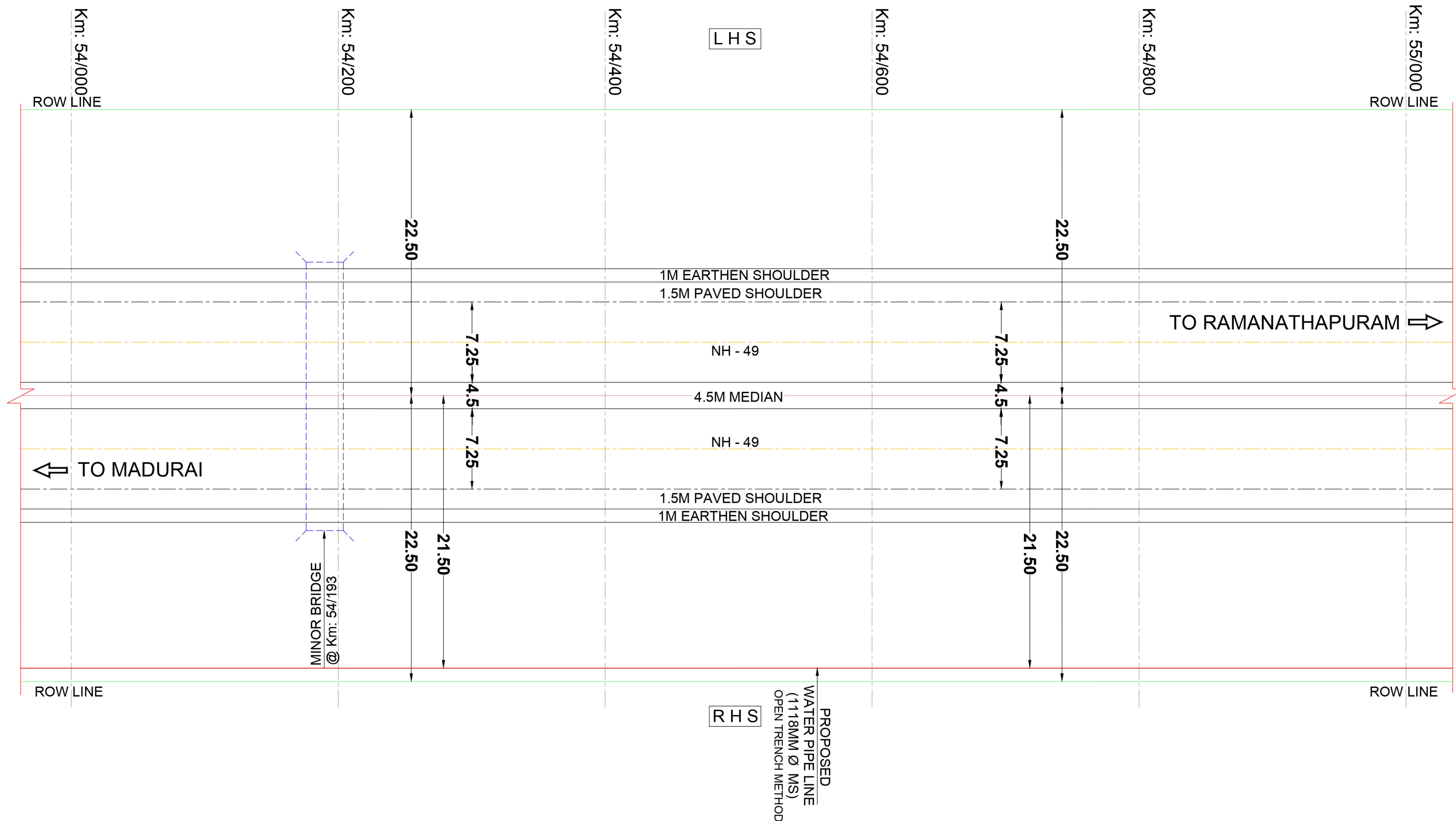
MADURAI TO RAMANATHAPURAM SECTION (NH - 49)
(Km: 53/000 TO Km: 54/000)

APPLICANT:

[Signature]
EXECUTIVE ENGINEER
(TWAD Board) R.W.S. Division,
RAMANATHAPURAM.

THE EXECUTIVE ENGINEER
Tamilnadu Water Supply And Drainage Board
RWS Division,
Ramanathapuram

- NOTES:**
1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED
 2. SECTION LENGTH - 1Km
 3. SCALE - NTS



- LEGEND:**
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 - - CENTER LINE OF ROAD
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 - - - - BRIDGE / CULVERT

MADURAI TO RAMANATHAPURAM SECTION (NH - 49)

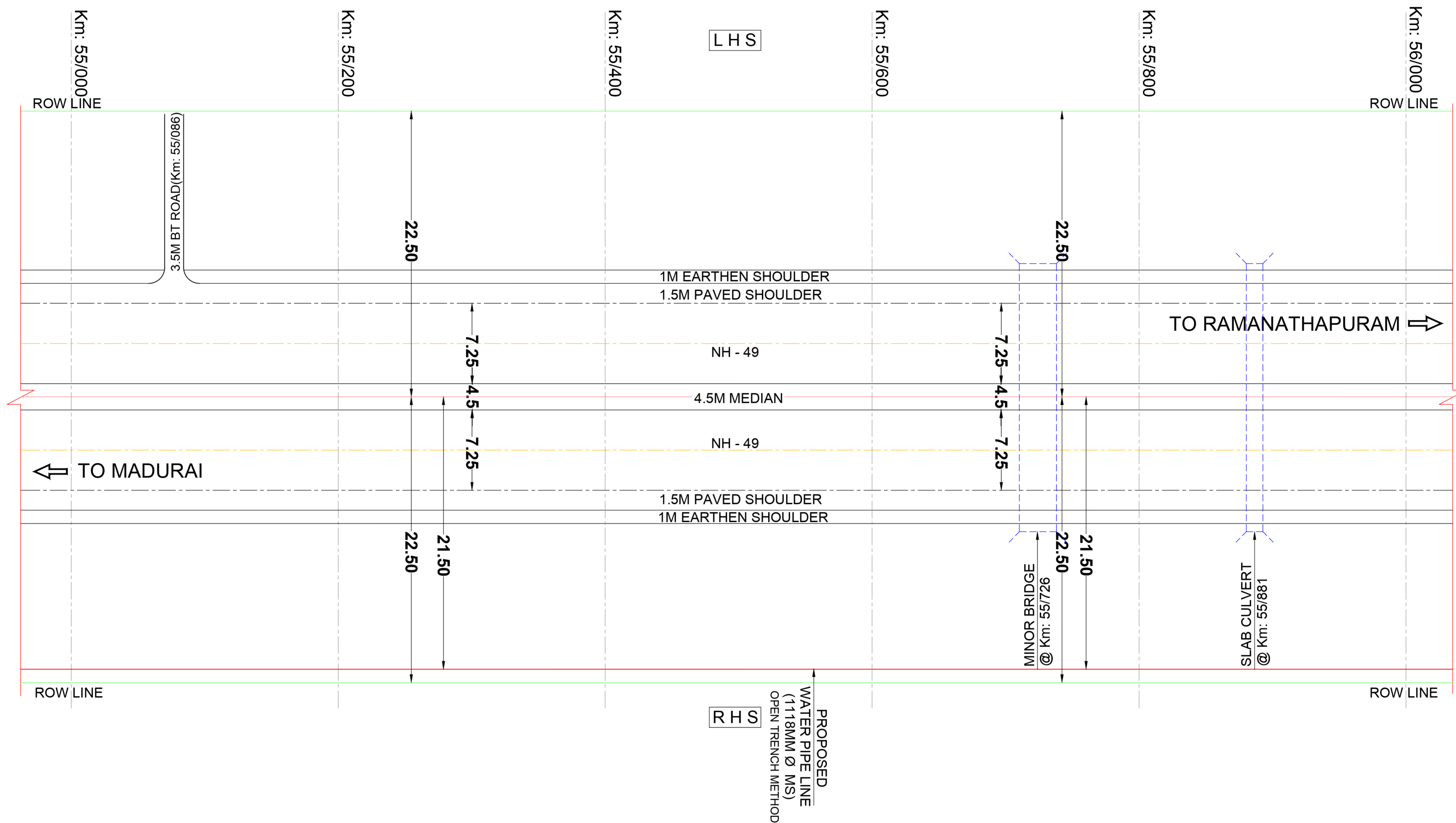
(Km: 54/000 TO Km: 55/000)

APPLICANT:

[Signature]
EXECUTIVE ENGINEER
 (TWAD Board) R.W.S. Division,
 RAMANATHAPURAM.

THE EXECUTIVE ENGINEER
 Tamilnadu Water Supply And Drainage Board
 RWS Division,
 Ramanathapuram

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- LEGENT:**
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 - - BT ROAD
 - - - - CENTER LINE OF CARRIAGEWAY
 - - CENTER LINE OF ROAD
 - - BOUNDARY (ROW)
 - - - - BRIDGE / CULVERT

MADURAI TO RAMANATHAPURAM SECTION (NH - 49)

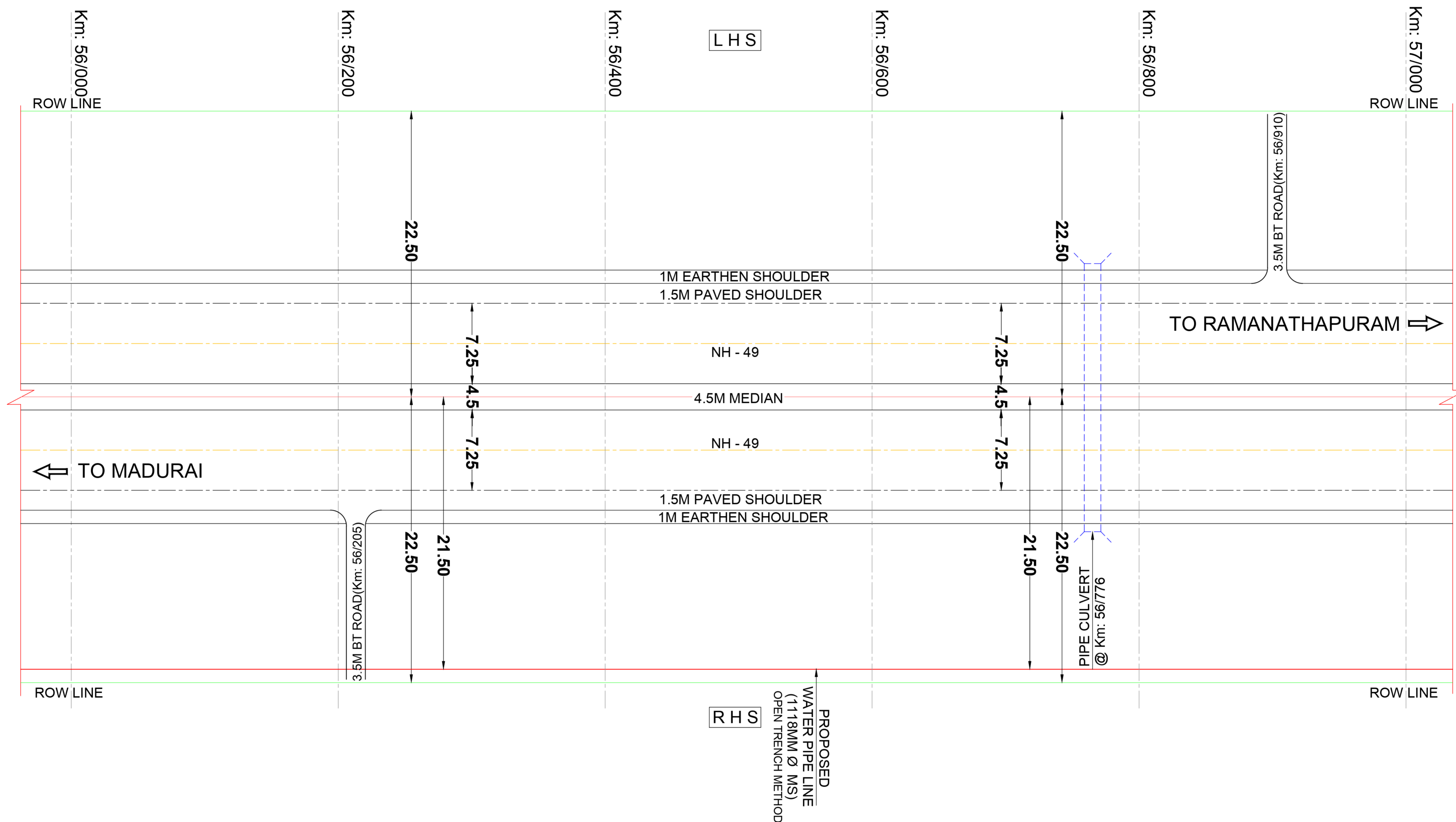
(Km: 55/000 TO Km: 56/000)

APPLICANT:

[Signature]
EXECUTIVE ENGINEER
 (TWAD Board) R.W.S. Division,
 RAMANATHAPURAM.

THE EXECUTIVE ENGINEER
 Tamilnadu Water Supply And Drainage Board
 RWS Division,
 Ramanathapuram

- NOTES:**
1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED
 2. SECTION LENGTH - 1Km
 3. SCALE - NTS



- LEGEND:**
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 - - CENTER LINE OF ROAD
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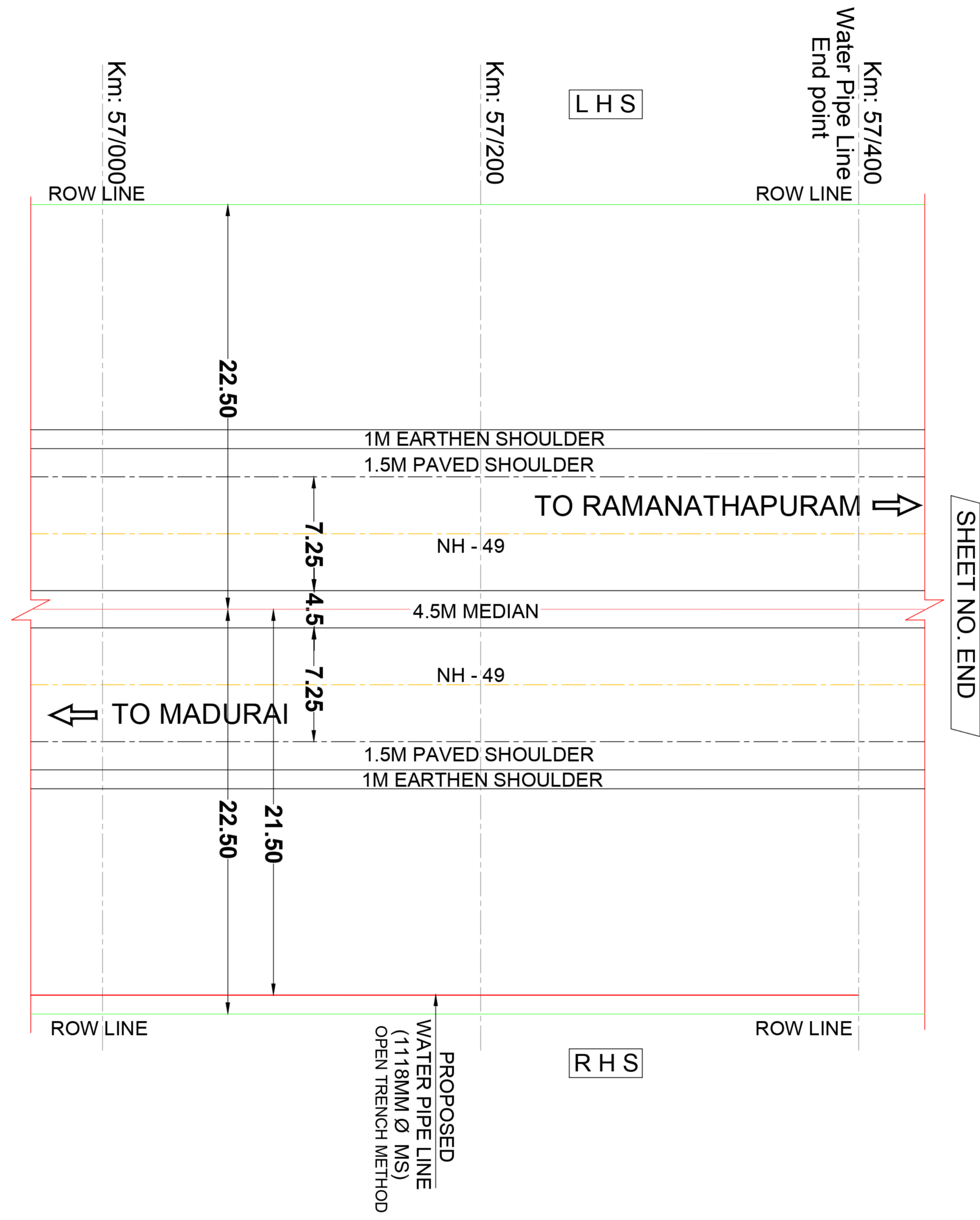
MADURAI TO RAMANATHAPURAM SECTION (NH - 49)
(Km: 56/000 TO Km: 57/000)

APPLICANT:

[Signature]
EXECUTIVE ENGINEER
(TWAD Board) R.W.S. Division,
RAMANATHAPURAM.

THE EXECUTIVE ENGINEER
Tamilnadu Water Supply And Drainage Board
RWS Division,
Ramanathapuram

- NOTES:**
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 2. SECTION LENGTH - 1Km
 3. SCALE - NTS



LEGENT:

	- PROPOSED WATER PIPE LINE
	- BT ROAD
	- CENTER LINE OF CARRIAGEWAY
	- CENTER LINE OF ROAD
	- BOUNDARY (ROW)
	- BRIDGE / CULVERT

MADURAI TO RAMANATHAPURAM SECTION (NH - 49)
(Km: 57/000 TO Km: 57/400)

APPLICANT:

EXECUTIVE ENGINEER
(TWAD Board) R.W.S. Division,
RAMANATHAPURAM.

THE EXECUTIVE ENGINEER
Tamilnadu Water Supply And Drainage Board
RWS Division,
Ramanathapuram

- NOTES:**
1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED
 2. SECTION LENGTH - 0.4Km
 3. SCALE - NTS

SHEET NO. END

LHS

RHS

Km: 57/000

Km: 57/200

Km: 57/400
Water Pipe Line
End point

ROW LINE

ROW LINE

ROW LINE

ROW LINE

22.50

22.50

21.50

7.25

7.25

4.5

1M EARTHEN SHOULDER

1.5M PAVED SHOULDER

NH - 49

4.5M MEDIAN

NH - 49

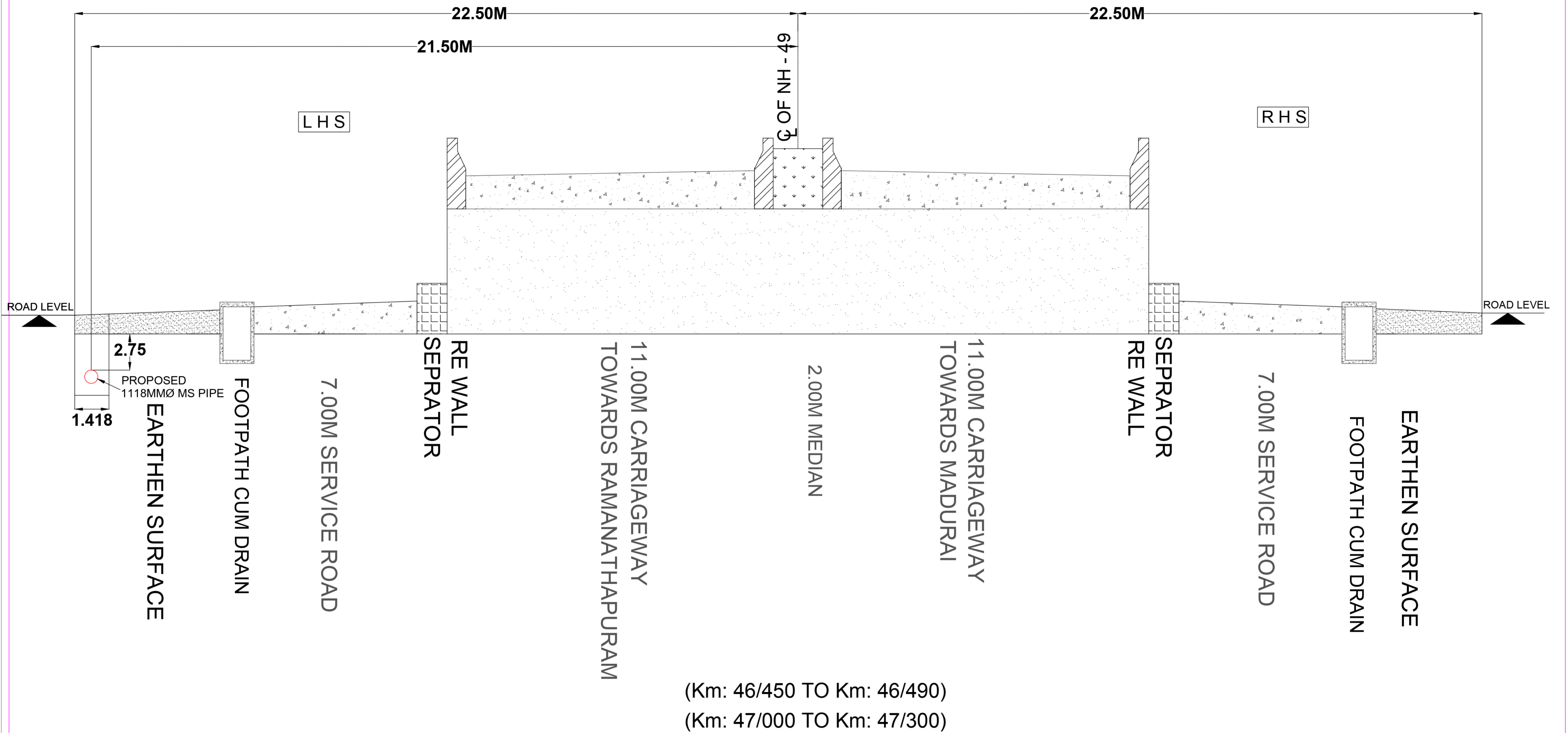
1.5M PAVED SHOULDER

1M EARTHEN SHOULDER

PROPOSED
WATER PIPE LINE
(1118MM Ø MS)
OPEN TRENCH METHOD

TO RAMANATHAPURAM →

← TO MADURAI



TITLE:

CROSSECTION DETAILS FOR NH - 49

MADURAI TO RAMANATHAPURAM SECTION (NH - 49)

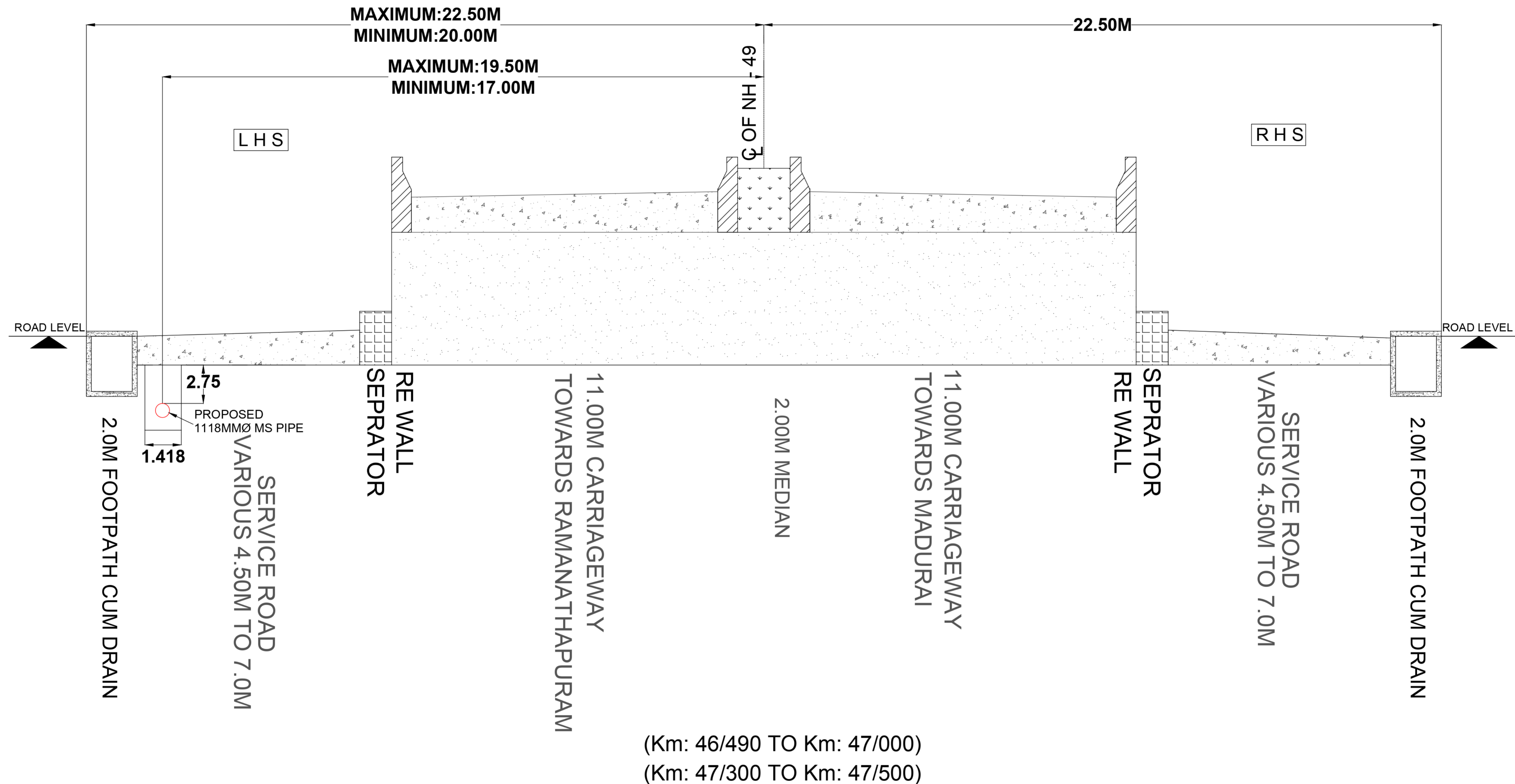
APPLICANT:

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 RAMANATHAPURAM.

THE EXECUTIVE ENGINEER

Tamilnadu Water Supply And Drainage Board

RWS Division,
Ramanathapuram



TITLE:

CROSSECTION DETAILS FOR NH - 49

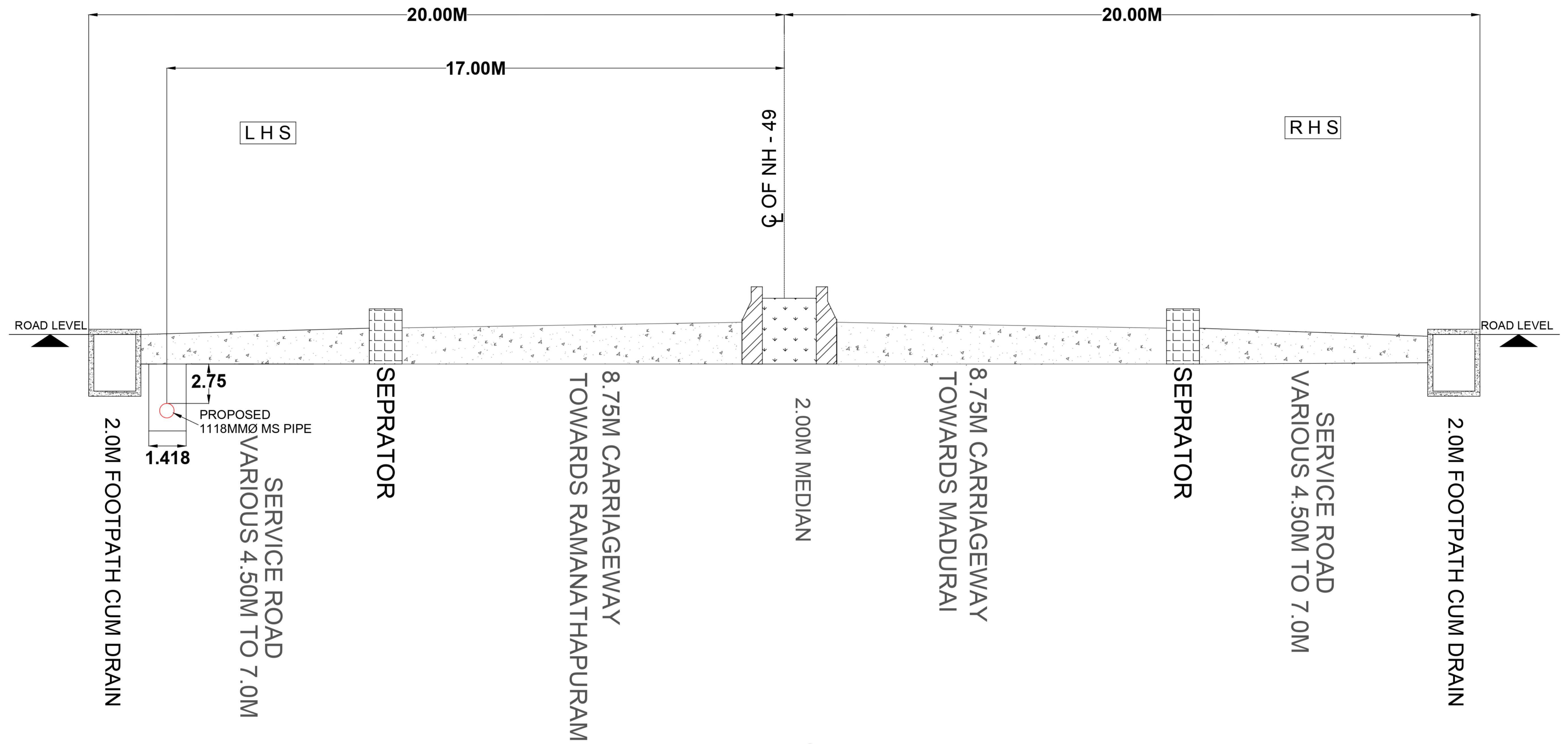
MADURAI TO RAMANATHAPURAM SECTION (NH - 49)

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 RWS Division,
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(Km: 47/500 TO Km: 47/660)

(Km: 47/820 TO Km: 48/330)

TITLE:

CROSSECTION DETAILS FOR NH - 49

MADURAI TO RAMANATHAPURAM SECTION (NH - 49)

APPLICANT:

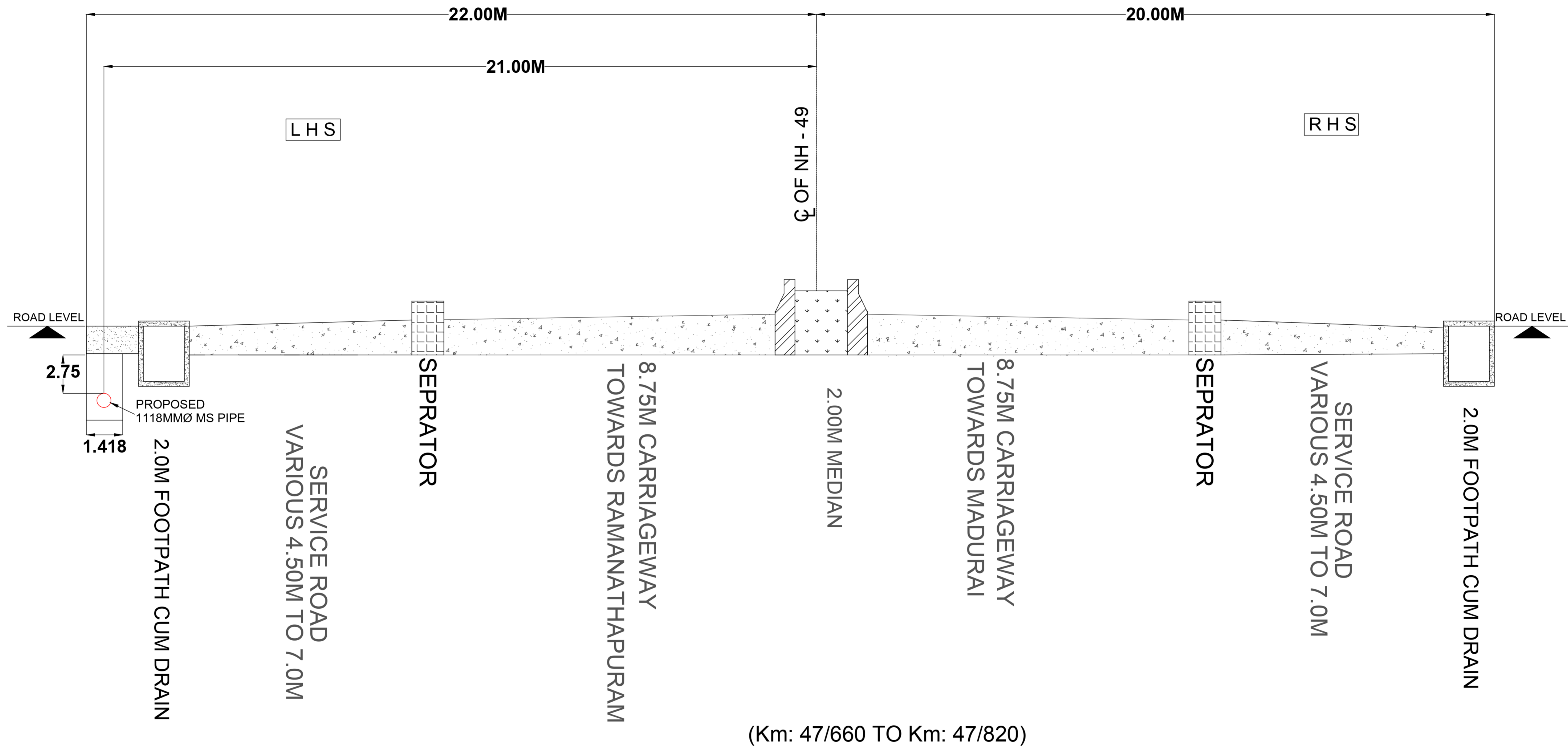
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TITLE:

CROSSECTION DETAILS FOR NH - 49

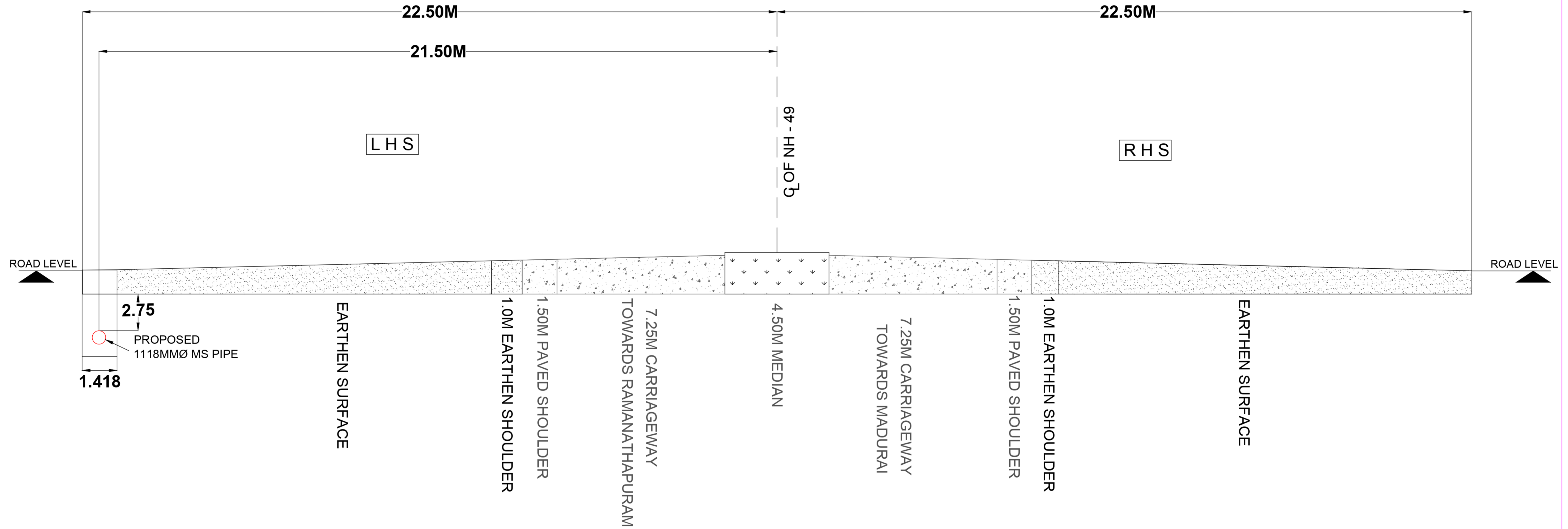
MADURAI TO RAMANATHAPURAM SECTION (NH - 49)

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(Km: 48/330 TO Km: 50/000)

TITLE:

CROSSECTION DETAILS FOR NH - 49

MADURAI TO RAMANATHAPURAM SECTION (NH - 49)

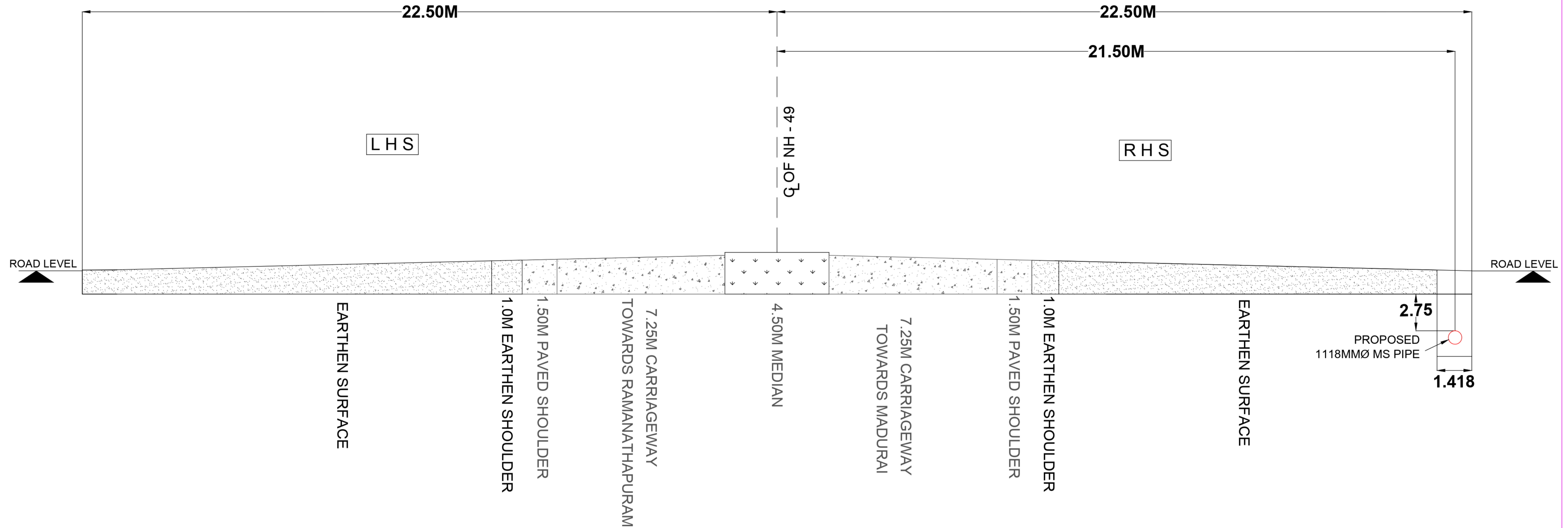
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(Km: 50/000 TO Km: 51/000)

(Km: 52/200 TO Km: 57/400)

TITLE:

CROSSECTION DETAILS FOR NH - 49

MADURAI TO RAMANATHAPURAM SECTION (NH - 49)

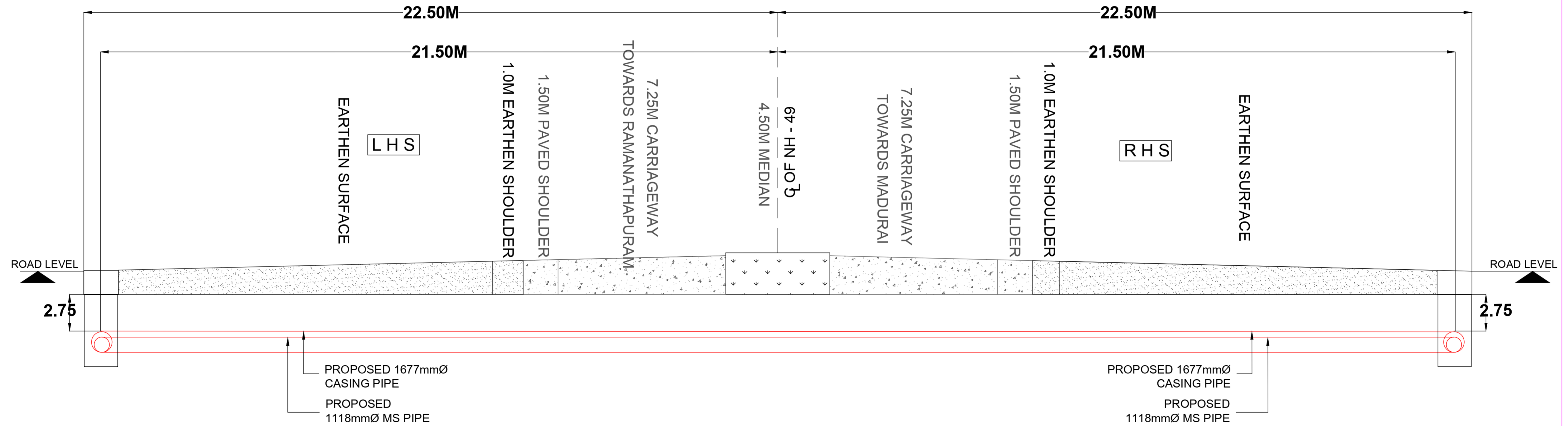
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Ramanathapuram



TITLE:

CROSSECTION DETAILS FOR NH - 49

MADURAI TO RAMANATHAPURAM SECTION (NH - 49)

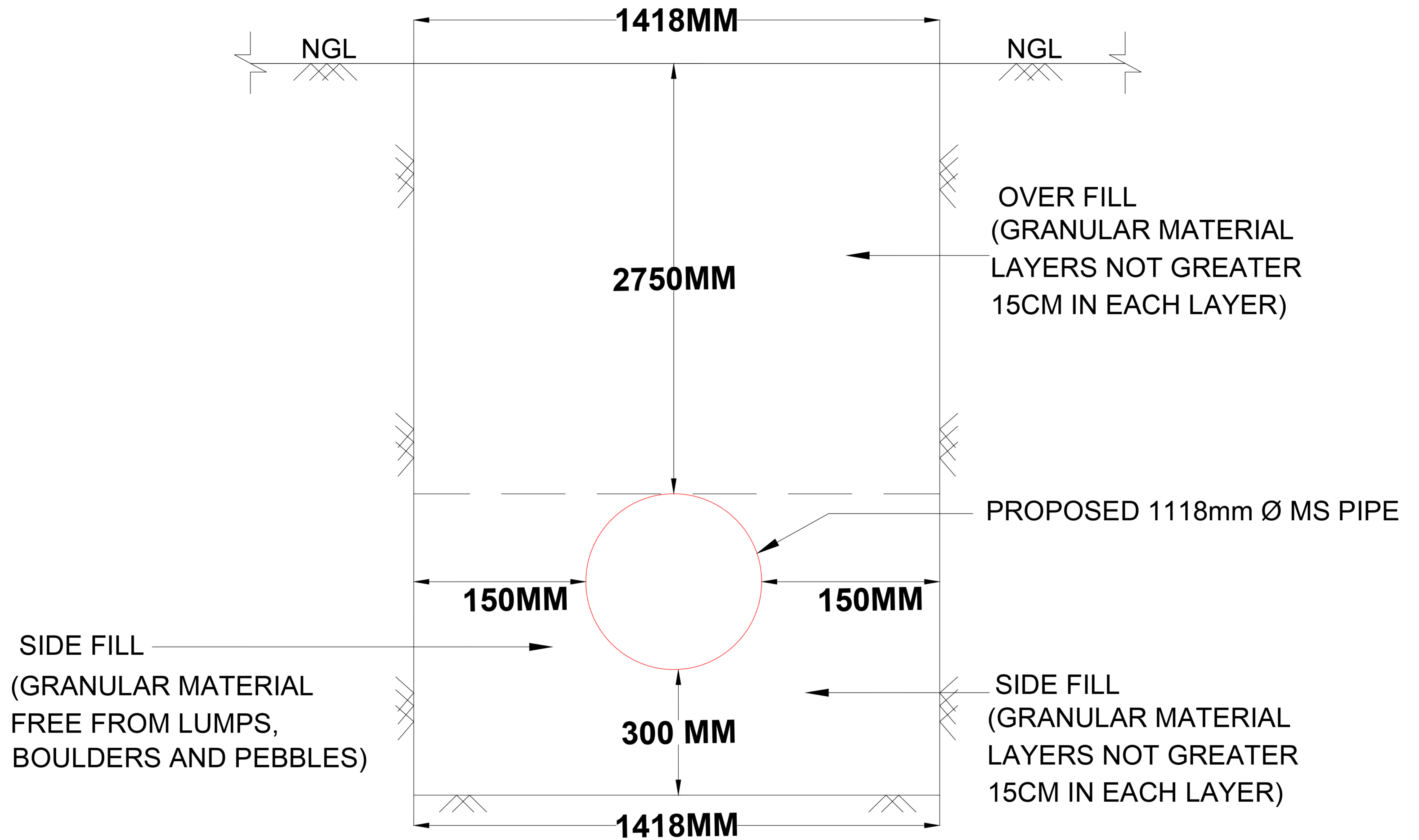
(ACROSS @ Km: 50/000)

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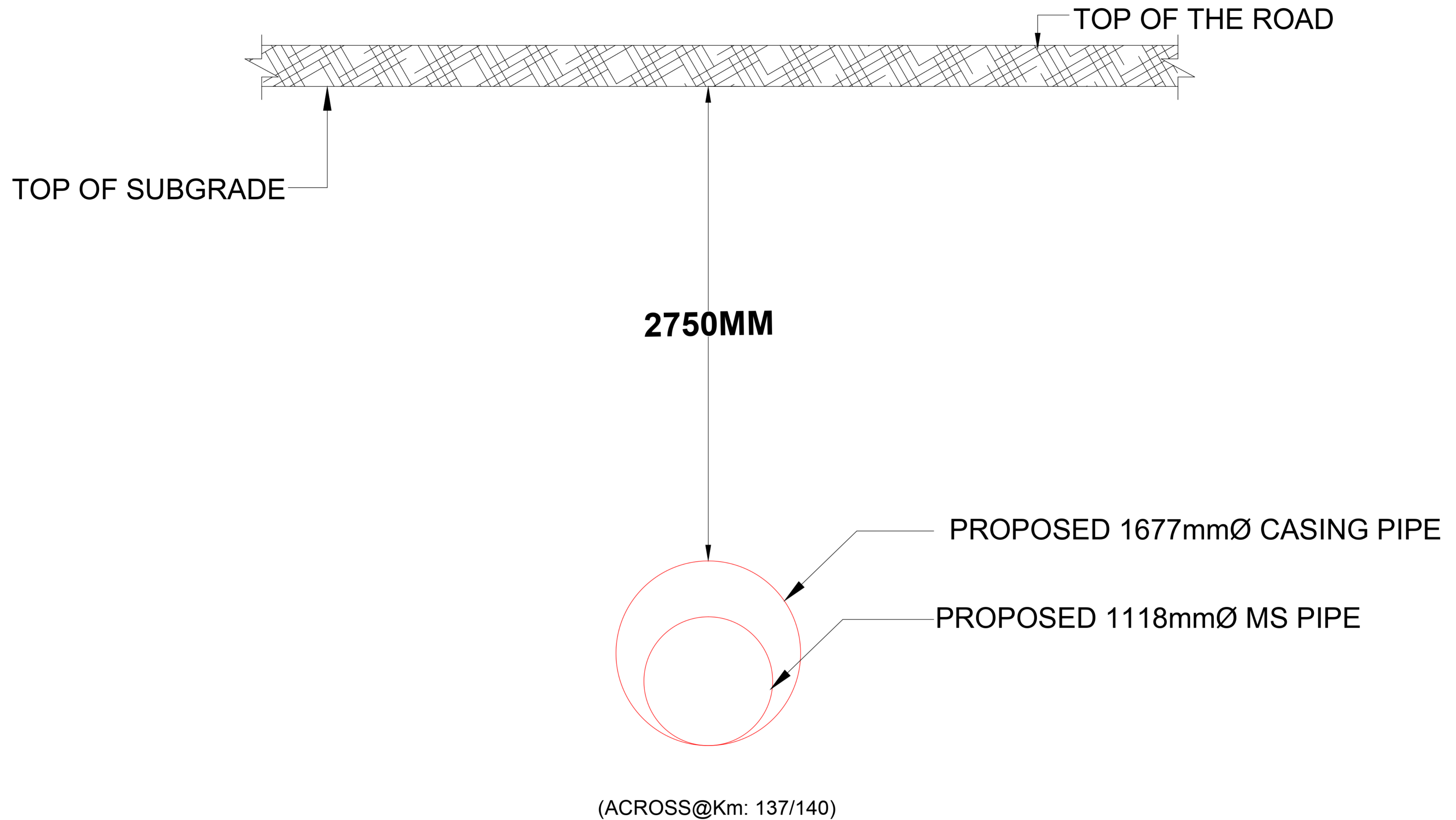
ENCLOSURE TO MINISTRY OF ROAD TRANSPORT & HIGHWAYS LETTER NO.RW/NH-33044/29/2015/S&R(R)(Pt). DATED 22.11.2016

FIGURE - 2 INSTALLATION OF PIPE FOR ALONG THE ROAD (TRENCH METHOD) & PLACE WHERE THE DISTANCE FROM THE CARRIAGE LEVEL OF CARRIAGE WAY IS MORE THAN 15M

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ENCLOSURE TO MINISTRY OF ROAD TRANSPORT & HIGHWAYS LETTER NO.RW/NH-33044/29/2015/S&R(R)(Pt). DATED 22.11.2016

TITLE:

FIGURE - 2 INSTALLATION OF RCC CASING PIPE FOR CROSSING THE ROAD TRENCH LESS (HDD METHOD)

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