



TYPE-04				
No.	Village	Sy No	Chainage, Km	
			From	To
1	Dasarahalli	59	36+495	36+500
2	Dasarahalli	60	37+004	37+022
3	Dasarahalli	60	37+093	37+115
4	Dasarahalli	60	37+165	37+215
5	Dasarahalli	60	37+230	37+260
6	Halelakya	118	37+325	37+400
7	Halelakya	118	37+560	37+660
8	Halelakya	118	37+720	37+795

ALL DIMENSIONS ARE IN MILLIMETER UNLESS SPECIFIED

2. MATERIALS SPECIFICATION AND WORK SPECIFICATIONS SHALL BE IN ACCORDANCE WITH MORT&H FOR ROAD AND BRIDGE WORK – CONSTRUCTION UNLESS OTHERWISE SPECIFIED.
3. FOLLOWING SPECIFICATIONS OF MORT&H SHALL BE FOLLOWED FOR MATERIAL LAND CONSTRUCTION FOR DIFFERENT PAVEMENT LAYERS SELECTION

● EARTHWORK IN EMBANKMENT	:CLAUSE 305
● EARTHWORK IN CUTTING	:CLAUSE 301
● SUBGRADE	:CLAUSE 305
● GRANULAR SUB – BASE (GSB)	:CLAUSE 401
● WET MIX MACADAM (WMM)	:CLAUSE 406
● DENSE BITUMINIOUS MACADAM (DBM)	:CLAUSE 505
● BITUMINOUS CONCRETE (BC)	:CLAUSE 507
● DRY LEAN CONCRETE (DLC)	:CLAUSE 601
● PAVEMENT QUALITY CONCRETE (PQC)	:CLAUSE 602
4. COMPACTION REQUIREMENTS (% OF DRY DENSITY) MODIFIED PROCTOR FOR EARTHWORKS SHALL BE AS FOLLOWS:

● EMBANKMENT	:95%
● SUBGRADE	:97%
● EARTHEN SHOULDER & MEDIAN	:97%
5. COMPACTED SUBGRADE SHALL HAVE EFFECTIVE CBR VALUE OF 8%(MIN.) AND COMPACTED SUB –BASE SHALL HAVE A CBR VALUE OF 30%(MIN.)
6. IF THE DIFFERENCE BETWEEN THE NATURAL GROUND AND FINISHED ROAD LEVEL IS LESS THAN 500MM, THEN THE GROUND SHALL BE LOOSENED AND RECOMPACTED TO ACHIEVE 97% OF DRY DENSITY, ENSURE THE CBR OF EXISTING SUBGRADE MATERIAL IS RESULTING AN EFFECTIVE CBR OF 8%
7. UNSUITABLE MATERIAL / SOIL ENCOUNTERED DURING PAVEMENT FORMATION SHALL BE REMOVED AND REFILLED WITH SELECT FILL MATERIAL AND COMPACTED IN LAYERS.
8. FINISHED ROAD LEVEL (FRL) IS MEASURED ON CENTRAL CROWN OF THE CARRIAGEWAY.
9. IN CASE OF CUTTING GREATER THAN 3m CATCH WATER DRAIN SHALL BE PROVIDED AT EVERY 3m & SHALL BE CONNECTED TO NEAREST CROSS DRAINAGE
- 10.DIMENSIONS ARE NOT TO BE SCALED AND ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
- 11.MEDIAN FILL SHALL BE UP TO 25MM BELOW THE TOP OF THE KERB. REF: IRC:SP:50–1999
- 12.FOR GRANULAR SUB–BASE THE MATERIAL TO BE USED SHOULD BE CLOSED GRADED FOR THE TOP LAYER AND COARSE GRADED FOR BOTTOM LAYER
- 13.CHUTES SHOULD TO BE PROVIDED AT EVERY 10m INTERVAL WHERE EMBANKMENT HEIGHT IS GREATER THAN 3m
- 14.CHUTES WITH ENERGY DISSIPATION BASIN SHALL BE BE PROVIDED AT EVERY 10m INTERVAL WHERE THE EMBANKMENT HEIGHT IS MORE THAN 6m.
15. EMBANKMENT SLOPE SHOULD BE STONE PITCHED WHERE HEIGHT IS MORE THAN 3m.
16. FOR DETAILS TYPE 'A', 'B', 'C' 'D', 'E' 'F', 'G', 'H', & MEDIAN REF. SHEET–07 & 08 OF DWG.NO. EIT–1201X–HWE–TCS–A001

FRL = FINISHED ROAD LEVEL.
CL = CENTER LINE
ROW = RIGHT OF WAY
PROW = PROPOSED RIGHT OF WAY
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Km = KILOMETER
OGL = ORIGINAL GROUND LEVEL
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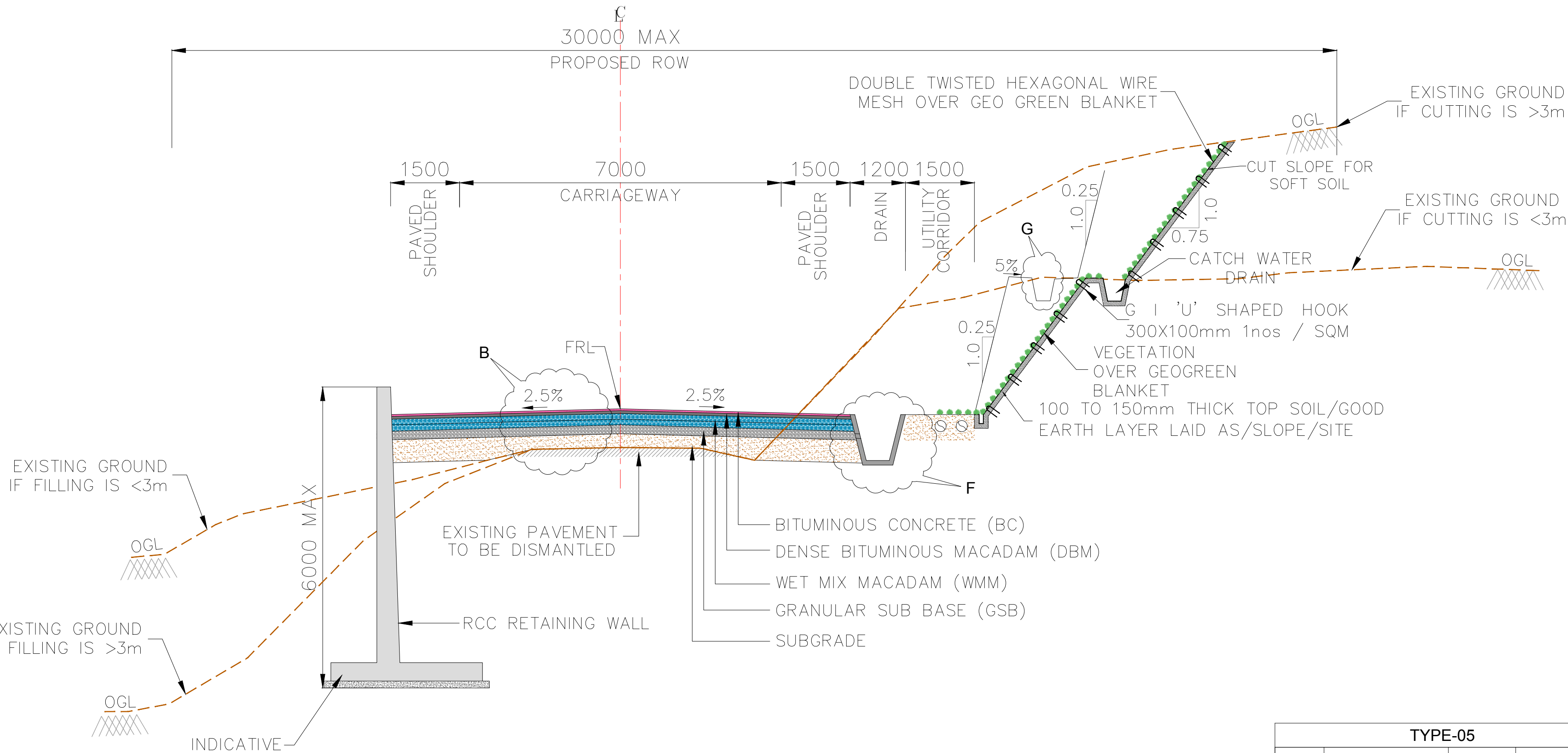

Executive Engineer
National Highway Division
Hassan

								PROJECT TITLE FEASIBILITY STUDY, DPR, SURVEY & PREPARATION OF LAND PLAN FOR WIDENING OF TWO LANE WITH PAVED SHOULDERS FROM Km 0.000 TO Km 72.100 MUDIGERE TO KADUR SECTION OF NH-173
1	AS PER APPROVED LETTER NO NH/12014/23/2017-KNT_ZONE-04 DATED 29.12.17	02.01.18	APK	RBG	ADS	NR		
0	For DPR	17.05.17	APK	RBG	ADS	NR		
Rev.	Description.	Date.	Drw.	Dsg.	Chk.	App.		

CLIENT	NATIONAL HIGHWAY DIVISION The Executive Engineer,N.H Division, PWD Office Complex, NR Circle, Hassan-573 201, Karnataka, India. Ph: 08172-297402, Fax : 08172-297402 Email: eenhassan@gmail.com
CONSULTANT	E I Technologies Pvt. Ltd. (ISO 9001 : 2008 Certified) # 1149, 26th Main, Jayanagar 4th 'I' Block Bangalore-560 041, India. Ph.+91.80.40914714, Fax: +91.80.26650912 info@eitech.in • www.eitech.in

DRAWING TITLE TYPICAL CROSS SECTION PACKAGE-3 (TYPE-04)							
Date	Drw.	Dsg.	Chk.	App.	Scale.	Drawing Status.	
24.02.2020	NK	SKB	ADS	NR	AS SHOWN	FOR APPROVAL	
Project No.	Drawing No.			Sheet No.			Rev.
1201	EIT-1201X-HWE-P3-TCS-A001			01 of 05			01

Original Drawing Size A3
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TYPICAL CROSS SECTION TYPE-05
RECONSTRUCTION STRETCHES IN CUT / FILL (MOUNTAINOUS TERRAIN)
SCALE (1:100)

TYPE-05				
No.	Village	Sy No	Chainage, Km	
			From	To
1	Dasarahalli	59	36+500	36+577
2	Dasarahalli	59	36+800	36+885
3	Dasarahalli	60	36+605	36+700
4	Halelakya	118	37+400	37+420

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 - BITUMINOUS CONCRETE (BC) : CLAUSE 507
 - DRY LEAN CONCRETE (DLC) : CLAUSE 601
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 - EMBANKMENT : 95%
 - SUBGRADE : 97%
 - EARTHEN SHOULDER & MEDIAN : 97%
- COMPACTED SUBGRADE SHALL HAVE EFFECTIVE CBR VALUE OF 8%(MIN.) AND COMPACTED SUB - BASE SHALL HAVE A CBR VALUE OF 30%(MIN.)
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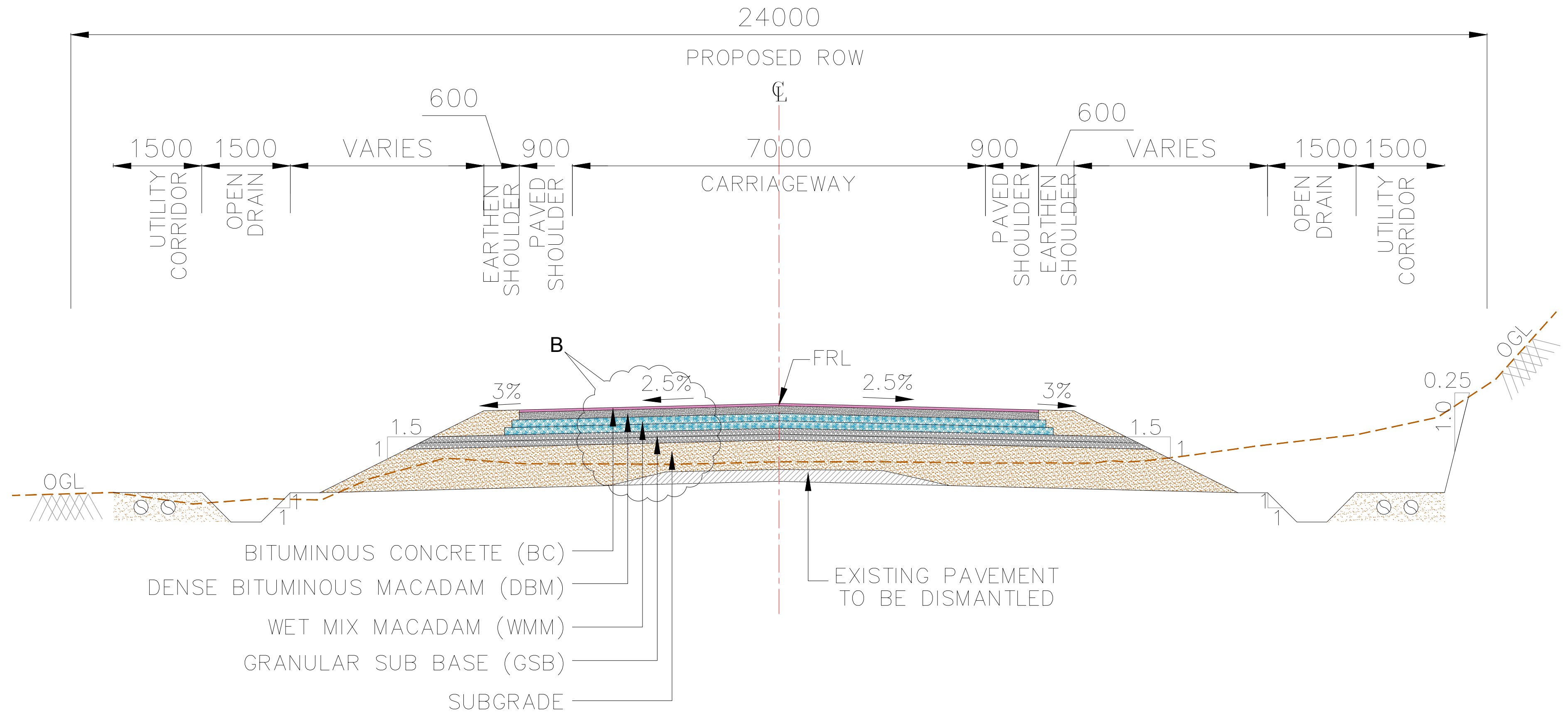
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Project No.	Drawing No.					Sheet No.	Rev.
1201	EIT-1201X-HWE-P3-TCS-A001					02 of 05	01



TYPICAL CROSS SECTION TYPE-06
RECONSTRUCTION / REALIGNMENT STRETCHES IN FILL (MOUNTAINOUS TERRAIN)
SCALE (1:75)

TYPE-06				
No.	Village	Sy No	Chainage, Km	
			From	To
1	Halelakya	118	37+857	37+875

GENERAL NOTES

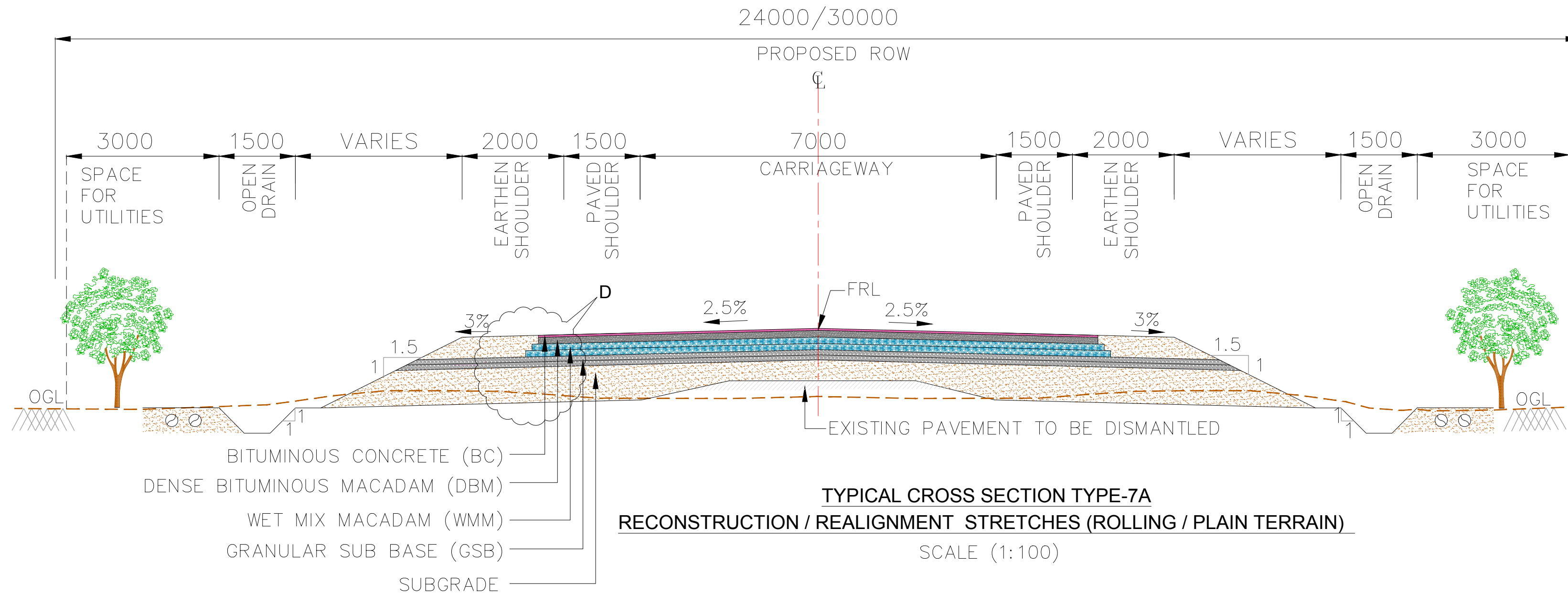
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TYPE-07A				
No.	Village	Sy No	Chainage, Km	
			From	To
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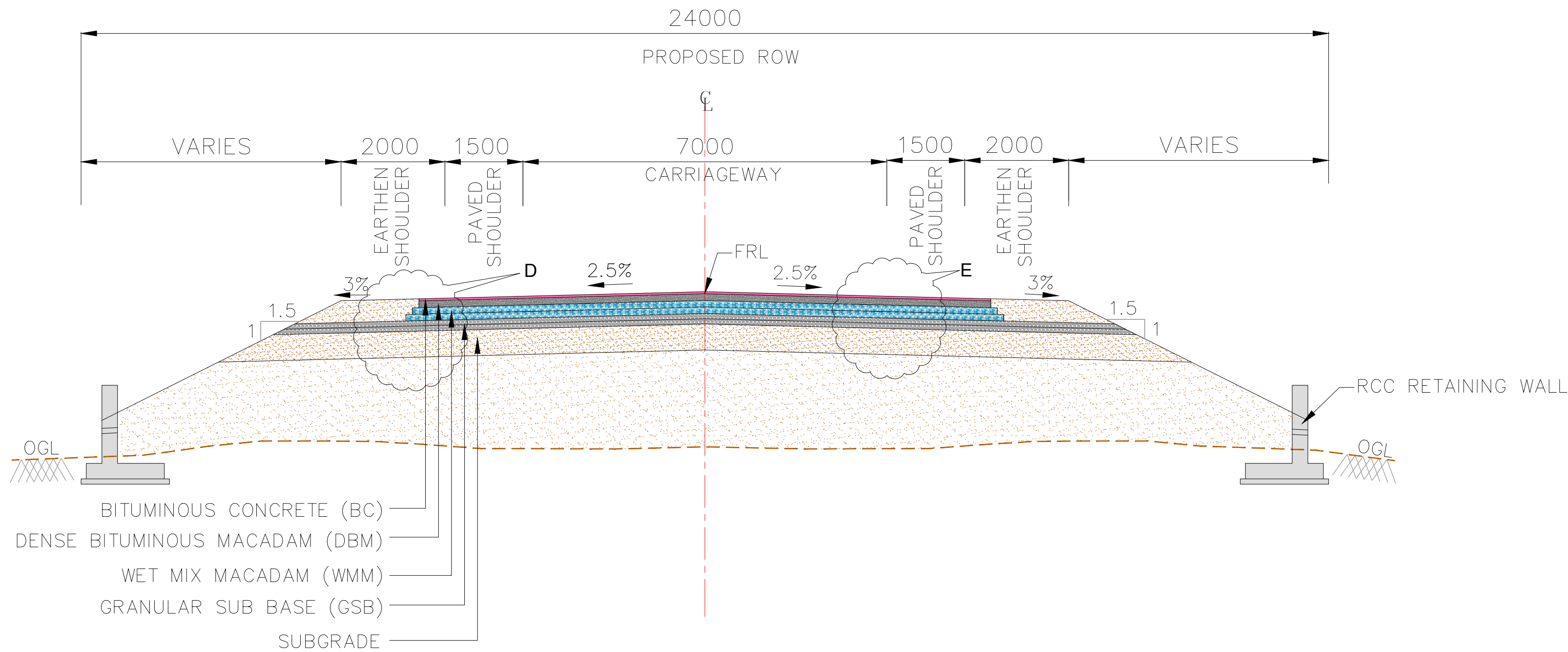
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- FOR DETAILS TYP 'A', 'B', 'C' 'D', 'E' 'F', 'G', 'H', & MEDIAN REF. SHEET-07 & 08 OF DWG.NO. EIT-1201X-HWE-TCS-A001

ABBREVIATION :

FRL = FINISHED ROAD LEVEL.
CL = CENTER LINE
ROW = RIGHT OF WAY
PROW = PROPOSED RIGHT OF WAY
EROW = EXISTING RIGHT OF WAY
Km = KILOMETER
OGL = ORIGINAL GROUND LEVEL
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TYPICAL CROSS SECTION TYPE-7B
RECONSTRUCTION / REALIGNMENT STRETCHES (ROLLING / PLAIN TERRAIN)
SCALE (1:100)

TYPE-07B				
No.	Village	Sy No	Chainage, Km	
			From	To
1	Sakryapatna	74	55+340	55+450

GENERAL NOTES

- ALL DIMENSIONS ARE IN MILLIMETER UNLESS SPECIFIED.
- MATERIALS SPECIFICATION AND WORK SPECIFICATIONS SHALL BE IN ACCORDANCE WITH MORT&H FOR ROAD AND BRIDGE WORK - CONSTRUCTION UNLESS OTHERWISE SPECIFIED.
- FOLLOWING SPECIFICATIONS OF MORT&H SHALL BE FOLLOWED FOR MATERIAL LAND CONSTRUCTION FOR DIFFERENT PAVEMENT LAYERS SELECTION
 - EARTHWORK IN EMBANKMENT : CLAUSE 305
 - EARTHWORK IN CUTTING : CLAUSE 301
 - SUBGRADE : CLAUSE 305
 - GRANULAR SUB - BASE (GSB) : CLAUSE 401
 - WET MIX MACADAM (WMM) : CLAUSE 406
 - DENSE BITUMINOUS MACADAM (DBM) : CLAUSE 505
 - BITUMINOUS CONCRETE (BC) : CLAUSE 507
 - DRY LEAN CONCRETE (DLC) : CLAUSE 601
 - PAVEMENT QUALITY CONCRETE (PQC) : CLAUSE 602
- COMPACTION REQUIREMENTS (% OF DRY DENSITY) MODIFIED PROCTOR FOR EARTHWORKS SHALL BE AS FOLLOWS:
 - EMBANKMENT : 95%
 - SUBGRADE : 97%
 - EARTHEN SHOULDER & MEDIAN : 97%
- COMPACTED SUBGRADE SHALL HAVE EFFECTIVE CBR VALUE OF 8%(MIN.) AND COMPACTED SUB -BASE SHALL HAVE A CBR VALUE OF 30%(MIN.)
- IF THE DIFFERENCE BETWEEN THE NATURAL GROUND AND FINISHED ROAD LEVEL IS LESS THAN 500MM, THEN THE GROUND SHALL BE LOOSENED AND RECOMPACTED TO ACHIEVE 97% OF DRY DENSITY, ENSURE THE CBR OF EXISTING SUBGRADE MATERIAL IS RESULTING AN EFFECTIVE CBR OF 8%
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CLIENT	NATIONAL HIGHWAY DIVISION The Executive Engineer,N.H Division, PWD Office Complex, NR Circle, Hassan-573 201, Karnataka, India. Ph: 08172-297402, Fax : 08172-297402 Email: eenhassan@gmail.com
CONSULTANT	E I Technologies Pvt. Ltd. (ISO 9001 : 2008 Certified) # 1149, 26th Main, Jayanagar 4th 'T' Block Bangalore-560 041, India. Ph.+91.80.40914714, Fax:+91.80.26650912 info@eitech.in•www.eitech.in

PROJECT TITLE							
FEASIBILITY STUDY, DPR, SURVEY & PREPARATION OF LAND PLAN FOR WIDENING OF TWO LANE WITH PAVED SHOULDERS FROM Km 0.000 TO Km 72.100 MUDIGERE TO KADUR SECTION OF NH-173							
DRAWING TITLE							
TYPICAL CROSS SECTION PACKAGE-3 (TYPE-7B)							
Date 24.02.2020	Drw. NK	Dsg. SKB	Chk. ADS	App. NR	Scale. AS SHOWN	Drawing Status. FOR APPROVAL	
Project No. 1201	Drawing No. EIT-1201X-HWE-P3-TCS-A001					Sheet No. 05 of 05	Rev. 01