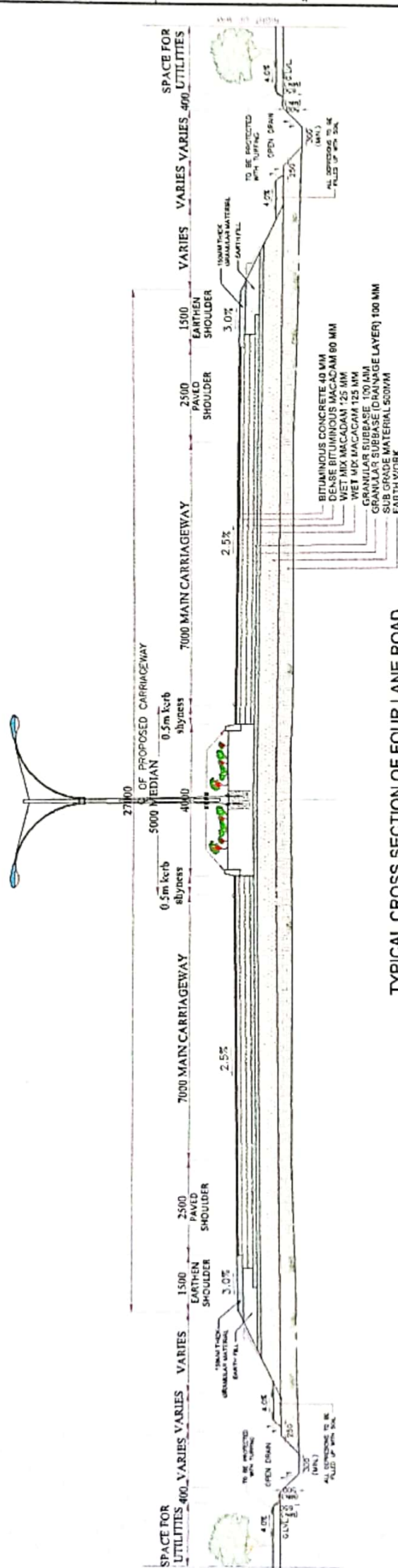




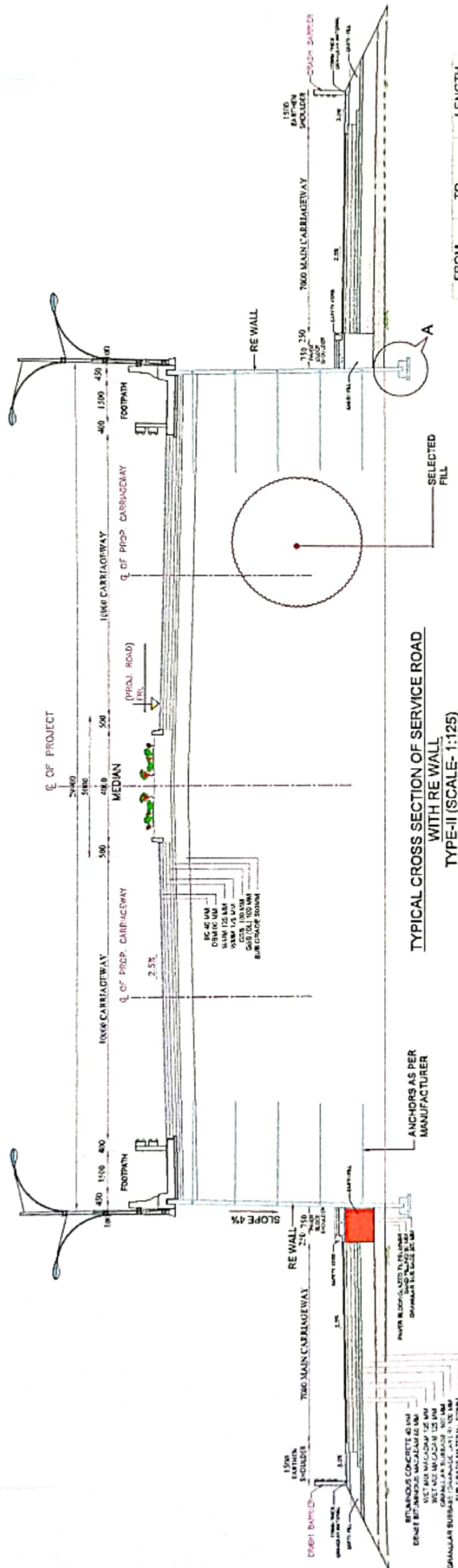
FROM	TO	LENGTH
000	5780	5780
6290	6600	310
7120	8700	1580
9140	9300	160
10050	10310	260
	TOTAL	8090M

TYPICAL CROSS SECTION OF FOUR LANE ROAD
WITH RAISED MEDIAN
TYPE-I (SCALE- 1:100)

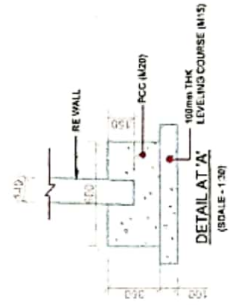
Satendra Prasad Singh
Satendra Prasad Singh,
Executive Engineer,
National Highway Division, Hazaribagh

 GOVERNMENT OF JHARKHAND ROAD CONSTRUCTION DEPARTMENT, RANCHI	OFFICE OF THE EXECUTIVE ENGINEER ADVANCE PLANNING FIELD SURVEY DIVISION RCD RANCHI	CONSULTANT :-  CUBE ENGINEERING CONSULTANT PVT.LTD. JEEVAN LOK HOSPITAL COMPLEX, MAIN ROAD HINOD, RANCHI-2	DRAWN BY RAHA	PROJECT :- Consultancy services for preparation of feasibility report, Detail Survey/Investigation, Alignment Option & Detailed project Report for Chitra Bypass on NH-99, at Chitra in the State of Jharkhand.-Total Length- 14.230 Km.	DATE 05-02-2022 TITLE :- TYPICAL CROSS SECTION TYPE-I DRAWING NO. - CHATRA/TCS_01 SCALE - AS SHOWN PAGE SIZE -A3
	DESIGN BY P. RAJAN				

48900



FROM	TO	LENGTH
5780	6290	510
6600	7120	520
8700	9140	440
9300	10050	750
	TOTAL	2220M



Spsl
Satyendra Prasad Singh,
Executive Engineer,
National Highway Division, Hazaribag

DATE	05-02-2022
TITLE :-	TYPICAL CROSS SECTION TYPE-II
DRAWING NO. :-	CHATRA/TCS_02
SCALE :-	AS SHOWN
PAGE SIZE :-	A3

PROJECT :-
 Consultancy services for preparation of feasibility report, Detail Survey/Investigation, Alignment Option & Detailed project Report for Chatra Bypass on NH-99, at Chatra in the State of Jharkhand.-Total Length- 14.230 Km.

DRAWN BY	RAVIA
DESIGN BY	P. RANJAN

CONSULTANT :-
CUBE ENGINEER
 CUBE ENGINEER CONSULTANT PVT. LTD.
 JEEVAN LOK HOSPITAL COMPLEX,
 MAIN ROAD HINDO,
 RANCHI-2

OFFICE OF THE EXECUTIVE ENGINEER
 ADVANCE PLANNING FIELD SURVEY DIVISION
 RCD RANCHI

GOVERNMENT OF JHARKHAND
 ROAD CONSTRUCTION DEPARTMENT,
 RANCHI

12000 ROADWAY WIDTH

CL OF PROPOSED CARRIAGEWAY

1000 1500 7000 MAIN CARRIAGEWAY 1500 1000

EARTHEN SHOULDER PAVED SHOULDER SHOULDER SHOULDER

150MM THICK GRANULAR MATERIAL SELECTED EARTH 3.0% 2.5% 3.0% 2.5%

BITUMINOUS CONCRETE 40 MM
DENSE BITUMINOUS MACADAM 90 MM
WET MIX MACADAM 125 MM
WET MIX MACADAM 125 MM
GRANULAR SUB BASE 100 MM
GRANULAR SUB BASE (DL) 100 MM
SUB GRADE MATERIAL 500MM

EMBANKMENT FILL

FROM	TO	LENGTH
10310	14230	3920M
	TOTAL	3920M

TYPICAL CROSS SECTION OF TWO LANE WITH PAVED SHOULDER TYPE- III (SCALE- 1:50)

Sps
Satyendra Prasad Singh,
Executive Engineer,
National Highway Division, Hazaribagh

DATE	05-02-2022
TITLE	TYPICAL CROSS SECTION TYPE- III
DRAWING NO.	CHTRATCS-03
SCALE	AS SHOWN
PAGE SIZE	A3

PROJECT :-
Consultancy services for preparation of feasibility report, Detail Survey/Investigation, Alignment Option & Detailed project Report for Chatra Bypass on NH-99 at Chatra in the State of Jharkhand.-Total Length- 14.230 Km.

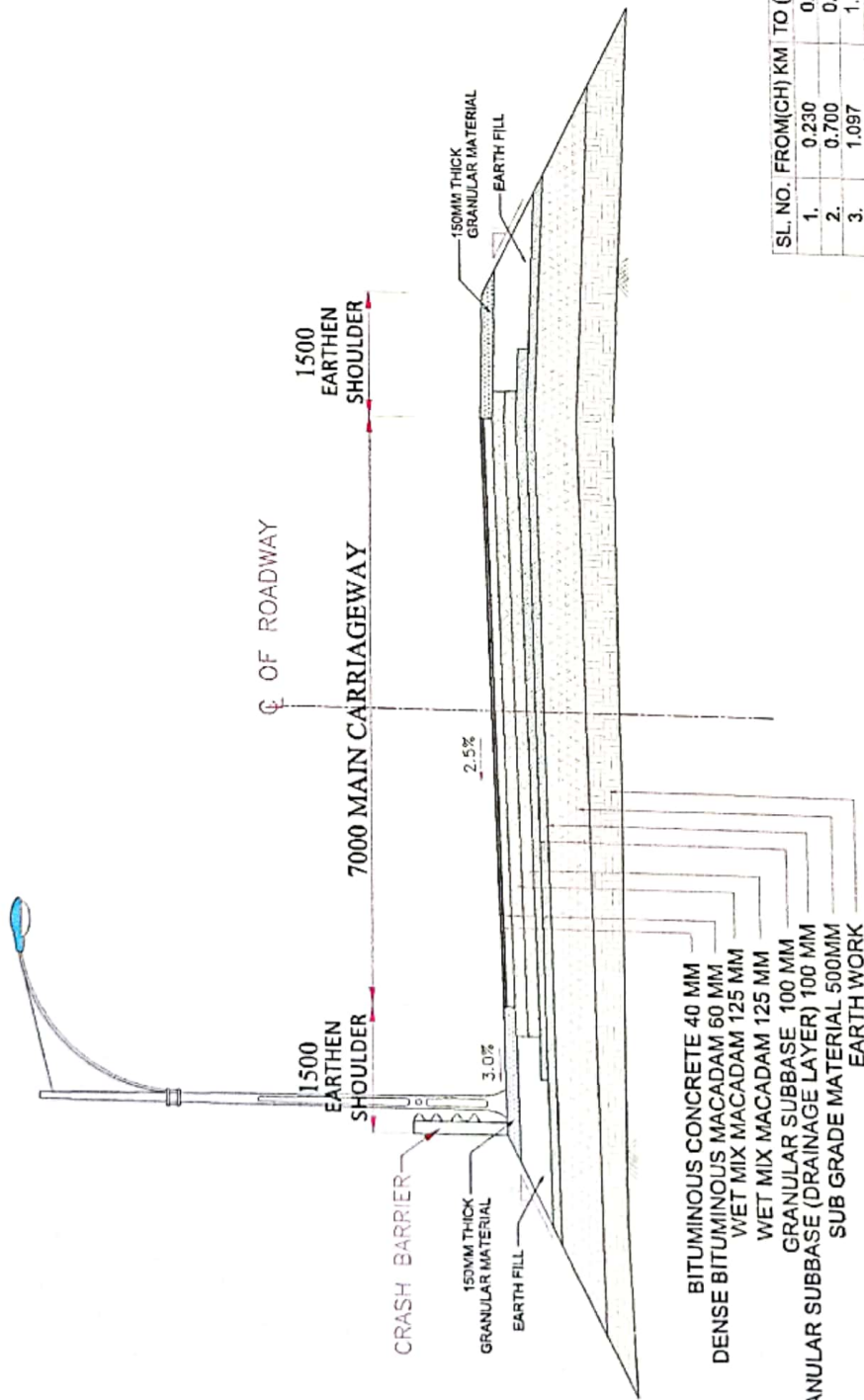
DRAWN BY
RANA

DESIGN BY
P. RANJAN

CONSULTANT :-
CUBE ENGINEERING
CUBE ENGINEERING CONSULTANT PVT.LTD.
JEEVAN LOK HOSPITAL COMPLEX,
MAIN ROAD HINOO,
RANCHI-2

OFFICE OF THE EXECUTIVE ENGINEER
ADVANCE PLANNING FIELD SURVEY DIVISION
RCD RANCHI

GOVERNMENT OF JHARKHAND
ROAD CONSTRUCTION DEPARTMENT,
RANCHI



SL. NO.	FROM(CH) KM	TO (CH) KM	LENGTH(KM)	REMARK
1.	0.230	0.440	0.210	
2.	0.700	0.880	0.180	AT VUP CH-6+100KM
3.	1.097	1.200	0.103	
4.	3.700	3.850	0.150	
5.	3.939	4.000	0.061	AT VUP CH-9+800KM
6.	4.600	4.816	0.216	
TOTAL LENGTH			0.920	

**TYPICAL CROSS SECTION OF SERVICE ROAD
CONNECTING EXISTING
ROAD TO PROPOSED ROAD
TYPE-IV (SCALE- 1:50)**

Satendra Prasad Singh
Satendra Prasad Singh,
Executive Engineer,
National Highway Division, Hazaribagh

DATE	05-02-2022
TITLE :-	TYPICAL CROSS SECTION TYPE-IV
DRAWING NO. -	CHATRA/TCS_04
SCALE -	AS SHOWN
PAGE SIZE -	A3

PROJECT :-
Consultancy services for preparation of feasibility report,
Detail Survey/Investigation, Alignment Option & Detailed
project report for Chitra Bypass on NH-99, at Chitra in
the State of Jharkhand. -Total Length- 14.230 Km.

CONSULTANT :-	CUBE INDITECH CUBE ENGINEERING CONSULTANT PVT.LTD. JEEVAN LOK HOSPITAL COMPLEX, MAIN ROAD HINOO, RANCHI-2
DRAWN BY	RAMA
DESIGN BY	P. RAMJAN

OFFICE OF THE EXECUTIVE ENGINEER ADVANCE PLANNING FIELD SURVEY DIVISION RCD RANCHI	GOVERNMENT OF JHARKHAND ROAD CONSTRUCTION DEPARTMENT RANCHI
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