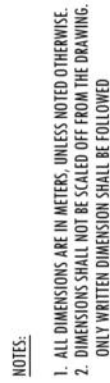


**Annex-  
TCS**

**TYPICAL CROSS SECTION FOR 4 - LANE DIVIDED HIGHWAY WITHOUT SERVICE ROAD AND  
WITH RAISED MEDIAN ( OPEN COUNTRY PLAIN & ROLLING)**

RIGHT SIDE

[illegible]



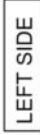
TYPICAL CROSS SECTION FOR 4 - LANE DIVIDED HIGHWAY WITHOUT SERVICE ROAD AND  
WITH RAISED MEDIAN ( OPEN COUNTRY PLAIN & ROLLING)

$$\text{CBR} > 8\%$$


1. ALL DIMENSIONS ARE IN METERS, UNLESS NOTED OTHERWISE.
2. DIMENSIONS SHALL NOT BE SCALED OFF FROM THE DRAWING.  
ONLY WRITTEN DIMENSION SHALL BE FOLLOWED

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## TYPE - 02



- NOTES:

CLIENT:	
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**NATIONAL HIGHWAYS & INFRASTRUCTURE  
DEVELOPMENT CORPORATION LTD.**  
PTI BUILDING, 4 PARLIAMENT STREET  
SANSAD MARG AREA, NEW DELHI - 110001

**DESIGN CONSULTANT:**  
**ANANDJIWALA INFRA ADVISORY**  
9, Shivrangini Shopping Center, On 132 Feet Ring Road,  
Nr. Shivrangini Cross Road, Satellite, Ahmedabad - 380 015  
Email: [anandjiwalainfra@gmail.com](mailto:anandjiwalainfra@gmail.com)


**PROJECT:** CONSULTANCY SERVICES FOR FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES FOR UPGRADEATION OF EXISTING 2 LANE HIGHWAY TO 4 LANE WITH PAVED SHOULDER CONFIGURATION (NH-144A) FROM KM 24.350 (KHATI CHOWK) TO KM 30.097 (HANUMAN CHOWK) OF JAMMU - AKHNOOR SECTION IN THE UNION TERRITORY OF JAMMU & KASHMIR ON EPC BASIS

**TYPICAL  
CROSS SECTION**

CLIENT APPROVAL:	SIGNATURE:
DWG NO. - ICS/JA/WHDL/FS/TCS/	
DRAWN: IK	CHECKED: SJ
	DESIGNED: SC

## RIGHT SIDE



- | REV | DATE | REVISIONS | CLIENT:   |
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**NATIONAL HIGHWAYS & INFRASTRUCTURE  
DEVELOPMENT CORPORATION LTD.**  
PTI BUILDING, 4 PARLIAMENT STREET  
SANSAD MARG AREA, NEW DELHI - 110001

**DESIGN CONSULTANT:**  
**ANANDJIWALA INFRA ADVISORY**  
9, Shivrangani Shopping Center, On 132 Feet Ring Road,  
Nr. Shivrangani Cross Road, Satellite, Ahmedabad - 380 015  
Email: anandjiwala@rediffmail.com

**PROJECT:** CONSULTANCY SERVICES FOR FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES FOR UPGRADEATION OF EXISTING 2 LANE HIGHWAY TO 4 LANE WITH PAVED SHOULDER CONFIGURATION (NH-144A) FROM KM 26.350 (KHATTI CHOWK) TO KM 30.097 (HANUMAN CHOWK) OF JAMMU - AKHNOOR SECTION IN THE UNION TERRITORY OF JAMMU & KASHMIR ON EPB-BASIS

TITLE:	<p>Not to scale</p> <p>Dimensions as mentioned</p>	TITLE:	<p><b>TYPICAL</b></p> <p><b>CROSS SECTION</b></p>	<p>DATE</p> <p>BY</p> <p>RE</p>
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CLIENT APPROVAL:	SIGNATURE:
WING NO: - ICS/JA/HHQ/LTS/TCS/ NAME: _____ I/K: _____ S/I: _____ DESIGNED: _____ CHECKED: _____ APPROVED: _____ I/A: _____	





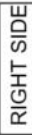
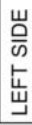








## TYPE - 06A



- NOTES:

**CLIENT:**

**WIDCL**  
WIDENING AND DEEPENING OF THE RIVER

**TIONAL HIGHWAYS & INFRASTRUCTURE  
DEVELOPMENT CORPORATION LTD.**  
PTI BUILDING, 4 PARLIAMENT STREET  
SANSAD MARG AREA, NEW DELHI - 110001

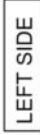
**ANANDJIWALA INFRA ADVISORY**  
9, Shivrangani Shopping Center, On 137 Feet Ring Road  
Nr. Shivrangani Cross Road, Satellite, Ahmedabad - 380 015  
Email: anandjiwalainfra@gmail.com

CONSULTANCY SERVICES FOR FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES FOR UPGRADEATION OF EXISTING 2 LANE HIGHWAY TO 4 LANE WITH PAVED SHOULDER CONFIGURATION (NH-144A) FROM KM 26.350 (KHATI CHOWK) TO KM 30.097 (MANUNIAN CHOWK) OF JAMNIN - AKHNOOR IN THE UNION TERRITORY OF JAMMU & KASHMIR ON EDP BASIC

TYPE	TYPICAL CROSS SECTION
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CLIENT APPROVAL:	SIGNATURE:
DWG NO. - 105/LA/NIHQD./TS/TCS/	
DRAWN: LK	CHECKED: SJ
DESIGNED: SC	APPROVED: LA

## TYPE - 06B



- NOTES:

CLIENT: 

**ANANDJIWALA INFRA ADVISORY**  
9, Shivranjani Shopping Center, On 132 Feet Ring Road,  
Nr. Shivranjani Cross Road, Satellite, Ahmedabad - 380 015  
Email: anandjiwalainfra@gmail.com

CONSULTANCY SERVICES FOR FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES FOR UPGRADATION OF EXISTING 2 LANE HIGHWAY TO 4 LANE WITH PAVED SHOULDER CONFIGURATION (NH-144A) FROM KM 26.350 (KHATI CHOWKI) TO KM 30.097 (HANURIAN CHOWKI) OF JAMMU - AKHNOOR SECTION IN THE UNION TERRITORY OF JAMMU & KASHMIR ON EPC BASIS

**TITLE:**  
**TYPICAL**  
**CROSS SECTION**

CLIENT APPROVAL:	SIGNATURE:
DWG NO: - ICS/JM/HHDL/FS/ICS/	
DRAWN: <i>LM</i>	CHECKED: <i>CC</i>
DESIGNED: <i>CC</i>	APPROVED: <i>LA</i>

TYPICAL CROSS SECTION FOR 2 - LANE UNDIVIDED HIGHWAY  
WITH DRAIN DUCT CUM FOOTPATH (URBAN SECTION)  
OPEN COUNTRY PLAIN & ROLLING

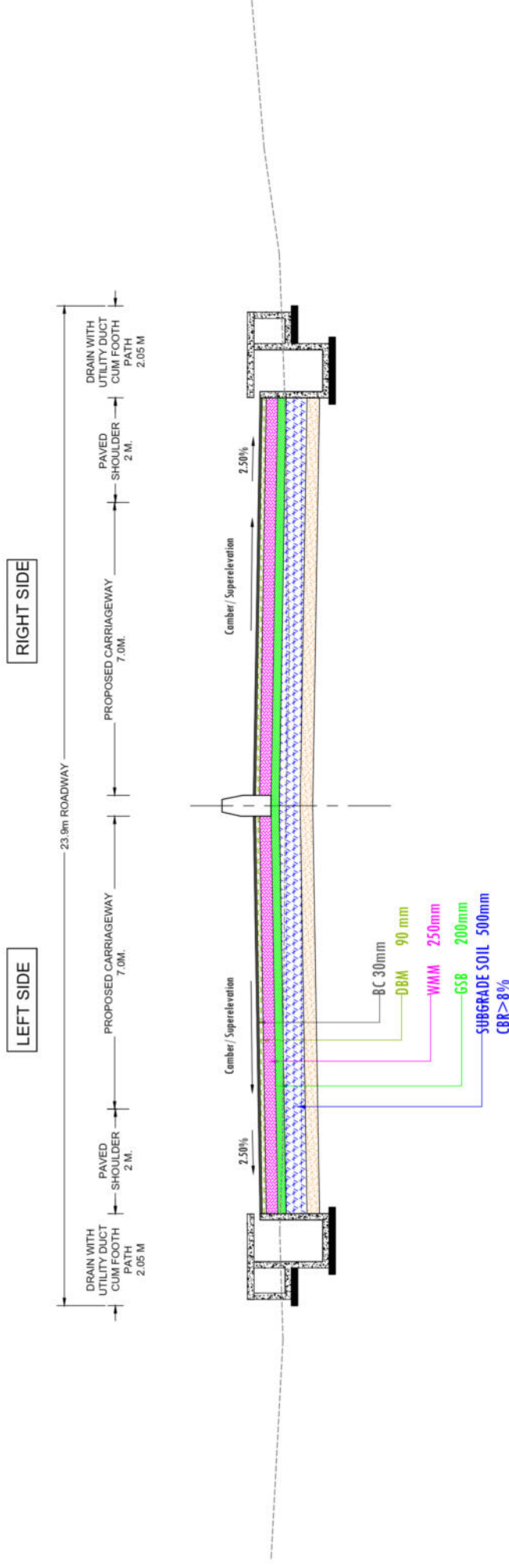


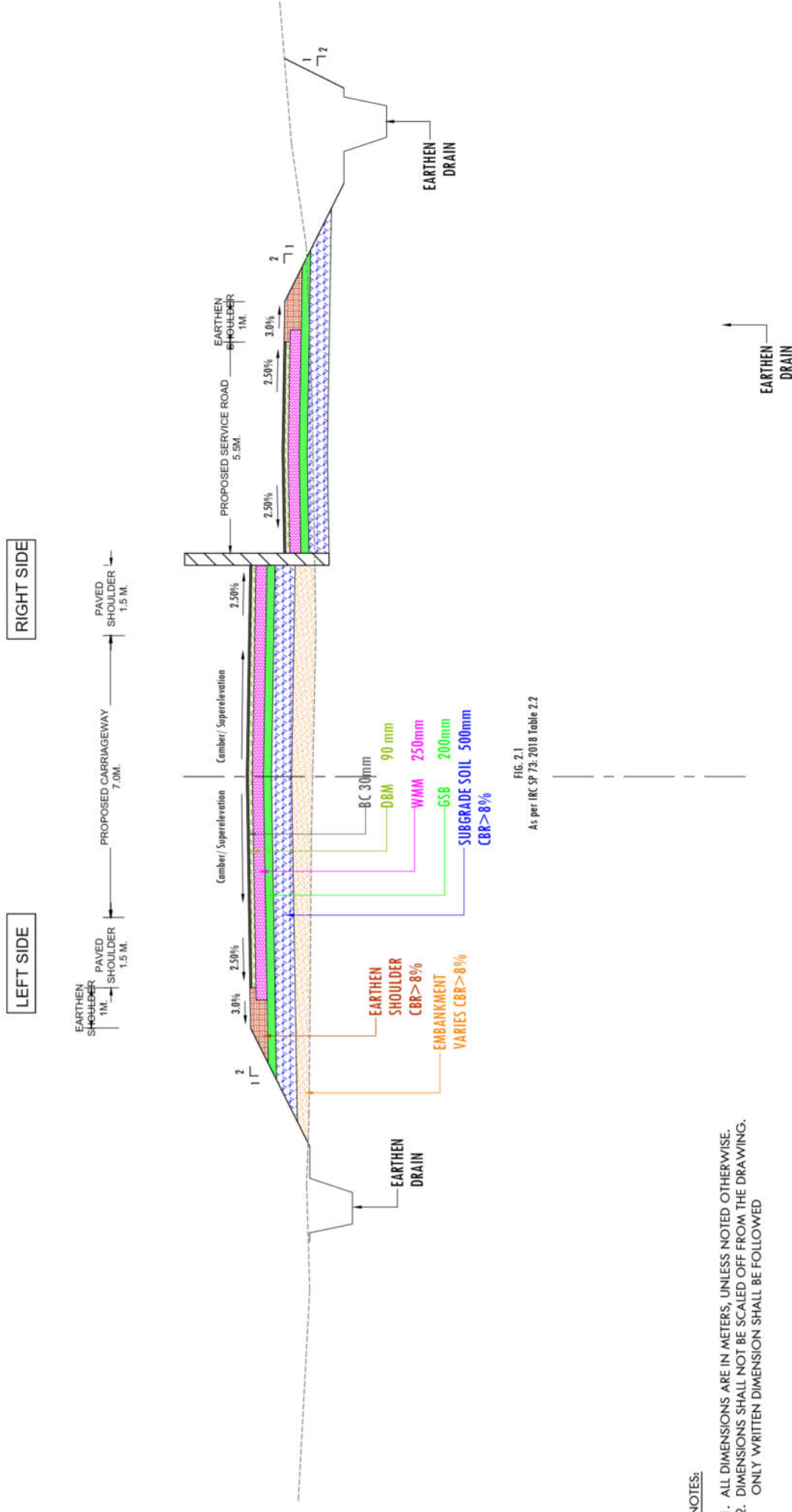
FIG. 2.1 (MODIFIED)  
As per IRC SP 73: 2018 Table 2.2

- NOTES:**
1. ALL DIMENSIONS ARE IN METERS, UNLESS NOTED OTHERWISE.
  2. DIMENSIONS SHALL NOT BE SCALED OFF FROM THE DRAWING. ONLY WRITTEN DIMENSION SHALL BE FOLLOWED

[illegible]

TYPICAL CROSS SECTION FOR 2 - LANE UNDIVIDED HIGHWAY WITH SERVICE ROAD IN LHS  
OPEN COUNTRY PLAIN & ROLLING)

## BANKING SECTION



- NOTES:**
1. ALL DIMENSIONS ARE IN METERS, UNLESS NOTED OTHERWISE.
  2. DIMENSIONS SHALL NOT BE SCALED OFF FROM THE DRAWING. ONLY WRITTEN DIMENSION SHALL BE FOLLOWED

[illegible]

Annex-III  
**Alignment Plan & Profile**

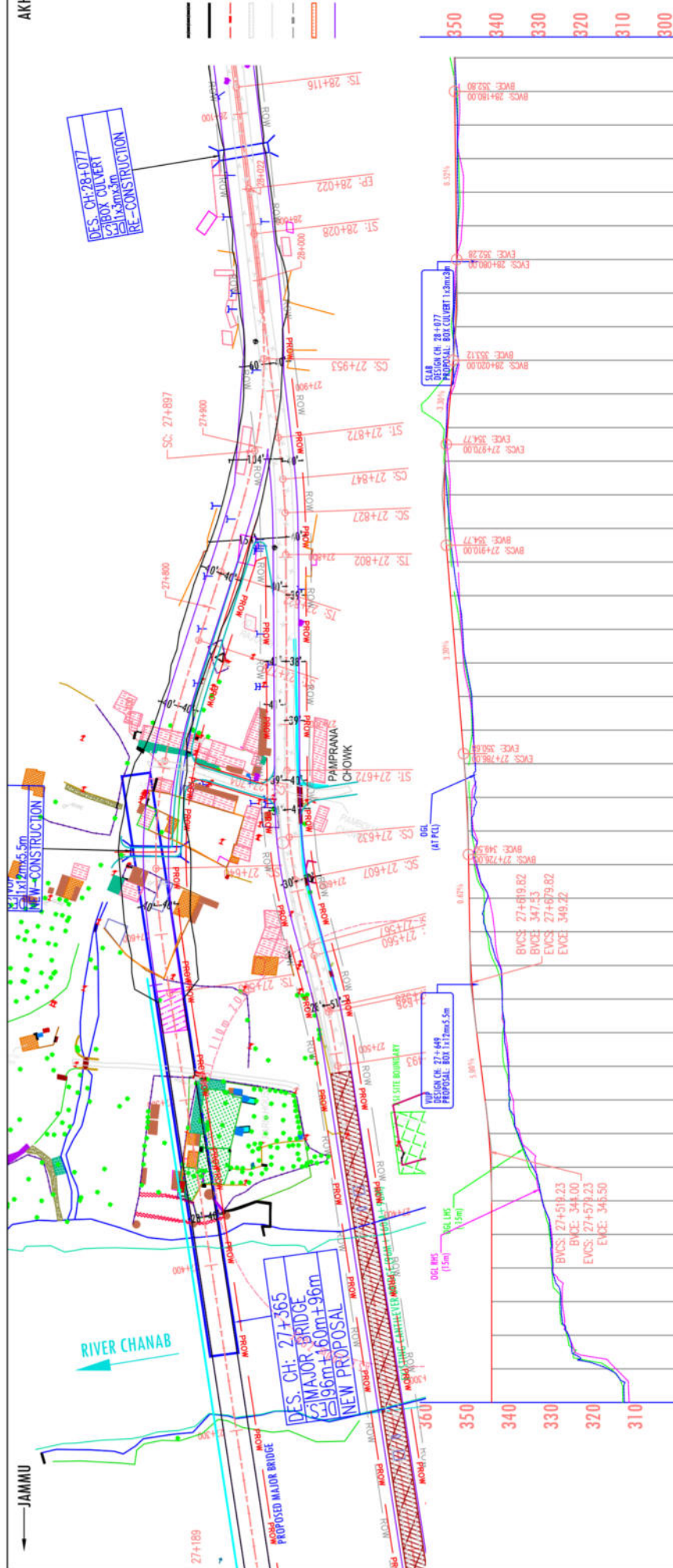




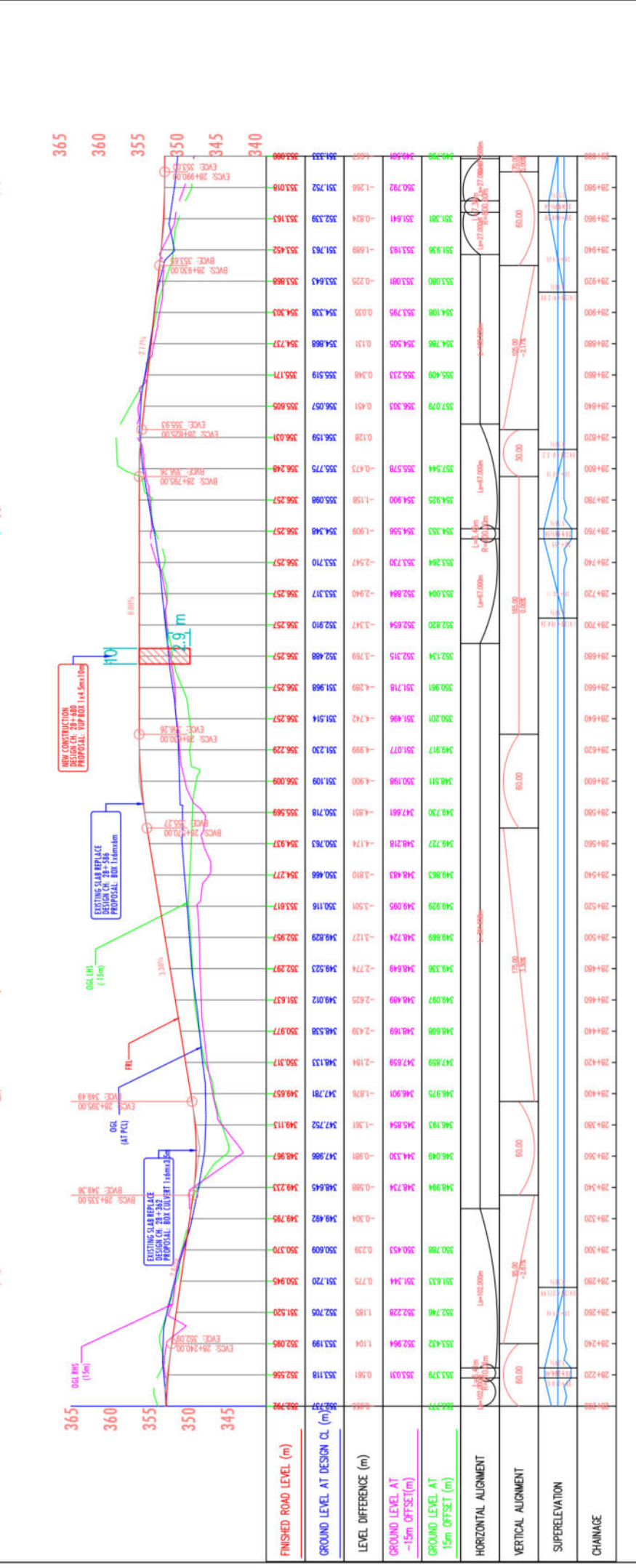
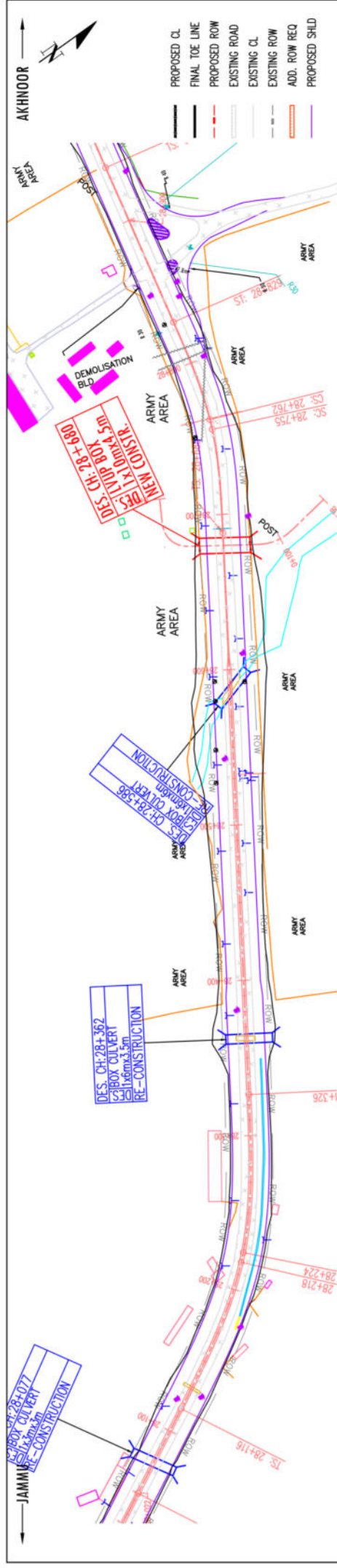




PROPOSED CL  
FINAL TOE LINE  
PROPOSED ROW  
EXISTING ROAD  
EXISTING CL  
EXISTING ROW  
ADD. ROW REQ  
PROPOSED SHLD.

[illegible]





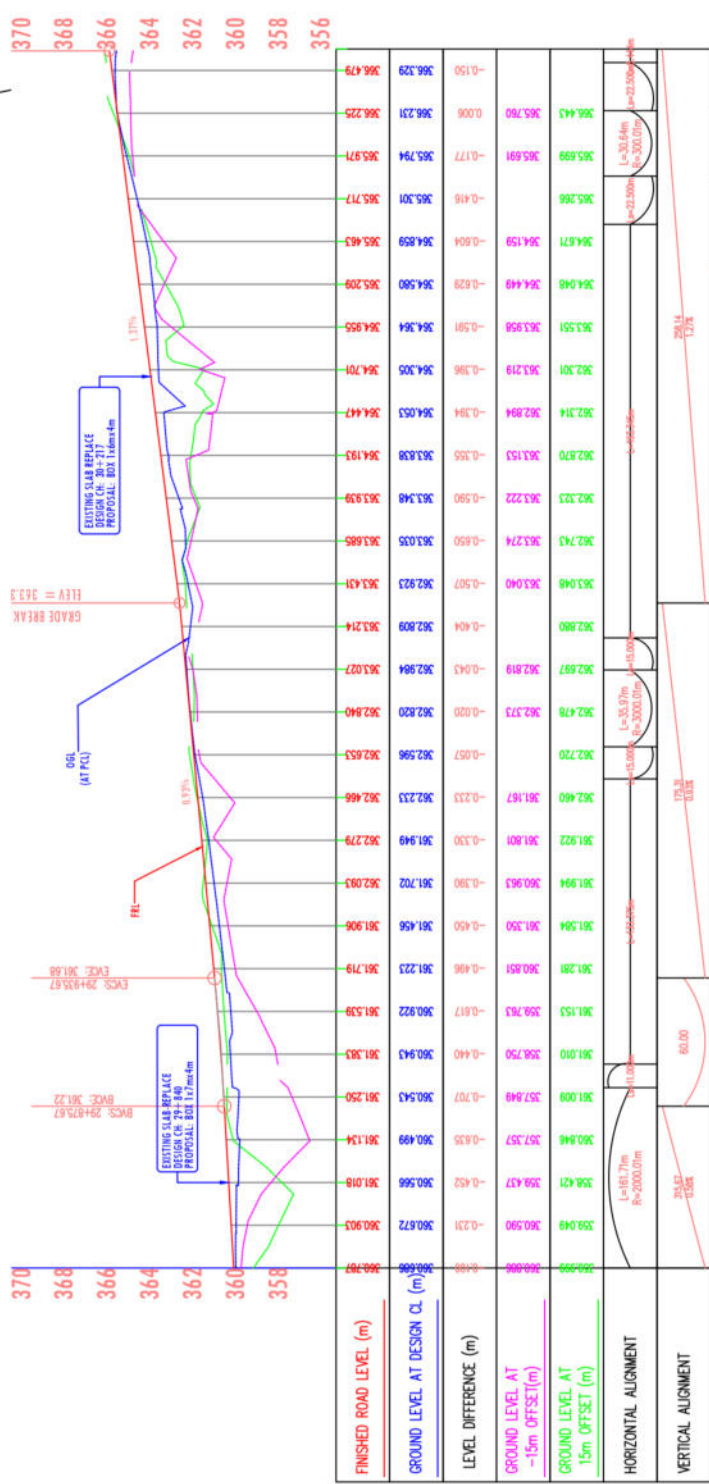
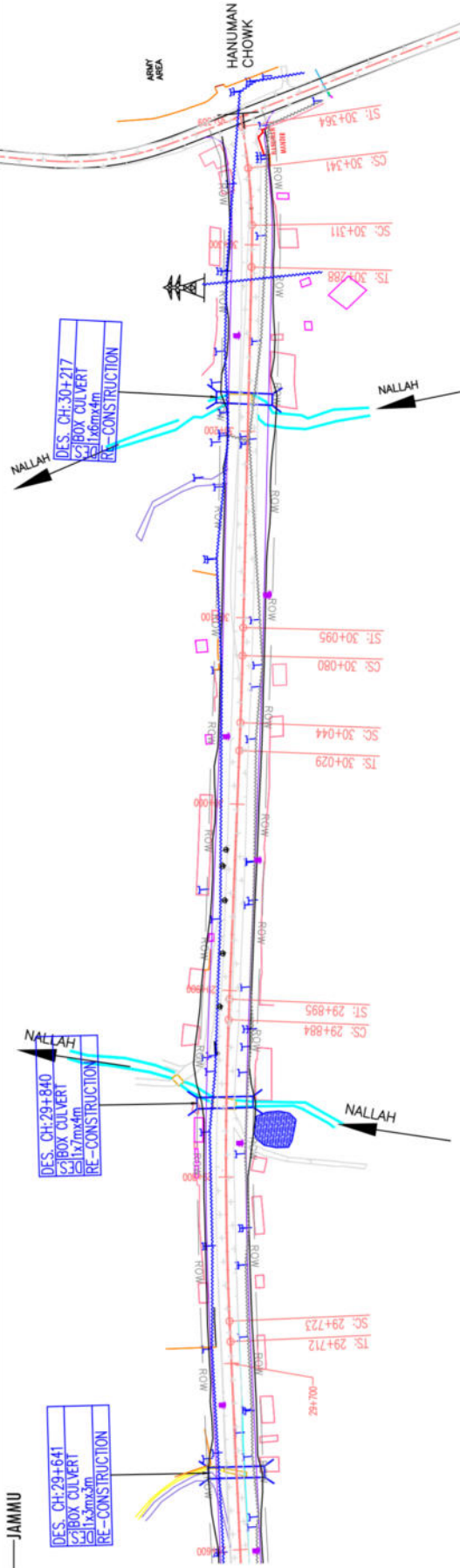
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NO.	01	DATE	05/06/2020	PROJECT	NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.	DESIGN CONSULTANT	ANANDJIWALA INFRA ADVISORY	SCALE	HORIZ: 1:2500	VERT: 1:500	Km 27+600 to Km 28+600	APPROVED	DESIGNED	SC	LA
BY	01	DATE	11/06/2020	PROJECT	PTI BUILDING, 4 PARLIAMENT STREET SANSAD MARG AREA, NEW DELHI - 110001	DESIGN CONSULTANT	ANANDJIWALA INFRA ADVISORY	SCALE	HORIZ: 1:2500	VERT: 1:500	Km 27+600 to Km 28+600	APPROVED	DESIGNED	SC	LA
REV.	01	DATE	11/06/2020	PROJECT	PTI BUILDING, 4 PARLIAMENT STREET SANSAD MARG AREA, NEW DELHI - 110001	DESIGN CONSULTANT	ANANDJIWALA INFRA ADVISORY	SCALE	HORIZ: 1:2500	VERT: 1:500	Km 27+600 to Km 28+600	APPROVED	DESIGNED	SC	LA



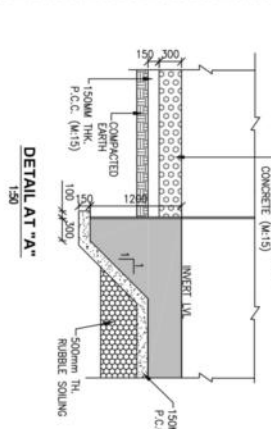
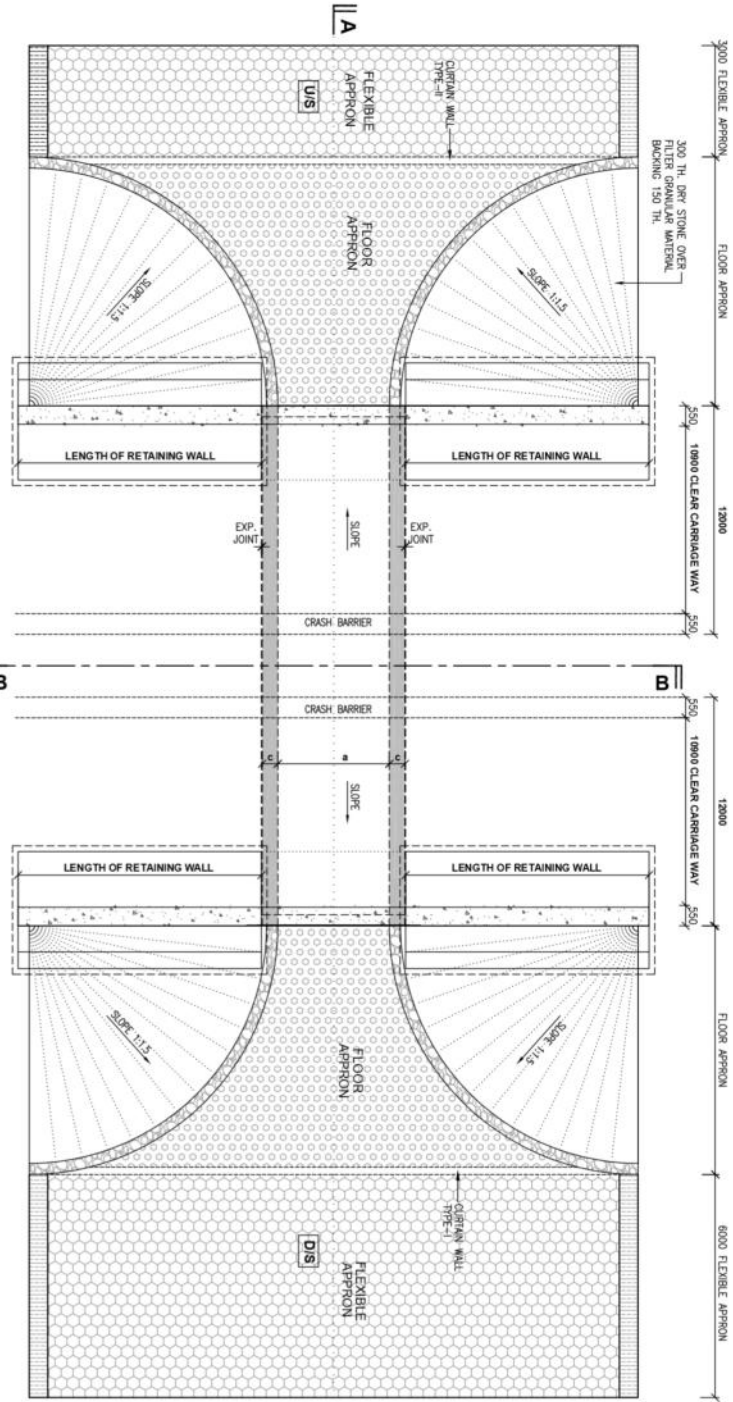
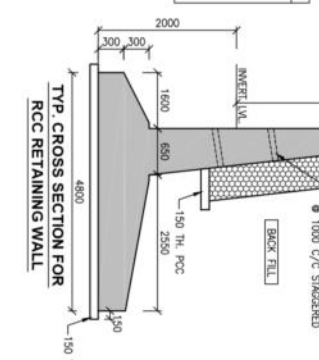
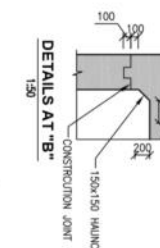
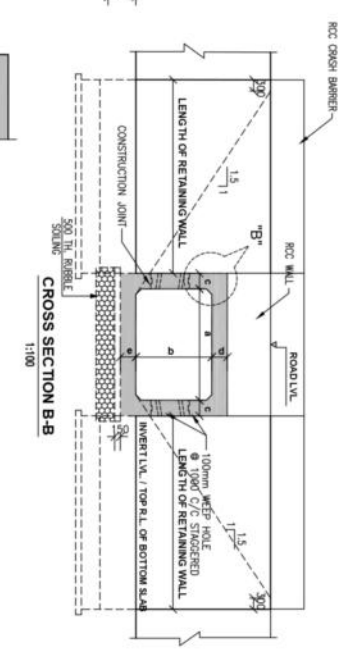
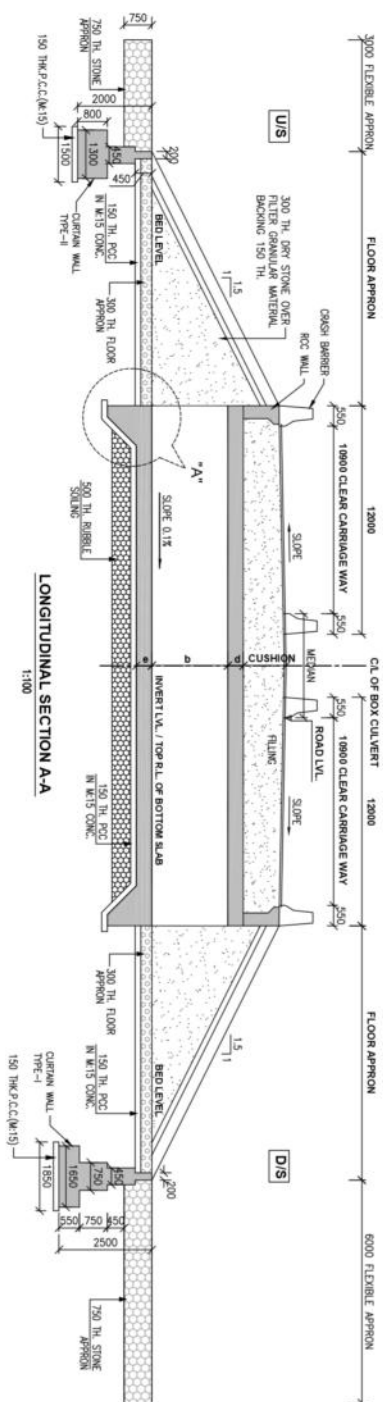


JAMMU

AKHNOOR



REVISIONS		DESIGN CONSULTANT		PROJECT		TITLE		CLIENT APPROVAL		SIGNATURE	
01	05/06/2020	A. UPADEHYA		NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI BUILDING, 4 PARLIAMENT STREET SANSAD MARG AREA, NEW DELHI - 110001		CONSULTANCY SERVICES FOR FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES FOR UPGRADE OF EXISTING 2 LANE HIGHWAY TO 4 LANE WITH PAVED SHOULDER CONFIGURATION (NH-144A) FROM KM 26.350 (KHATTI CHOWK) TO KM 30.097 (HANUMAN CHOWK) OF JAMMU - AKHNOOR SECTION IN THE UNION TERRITORY OF JAMMU & KASHMIR ON EPC BASIS		CHKD. LK		APPD. SC	
02	11/06/2020	A. UPADEHYA		ANANDJIWALA INFRA ADVISORY 9 Shivrajpur Shikhar Centre, Ds 137 Fort Ring Road Bt, Shivrajpur Shivik Road, Sankar, Mandla - 380 015 Email: anandjiwala@rediffmail.com		Km 29+400 to Km 30+100		CHKD. LK		APPD. SC	
REV.	DATE	BY	DATE	NO. DESCRIPTION		VERT: 1:250		CHKD. LK		APPD. SC	
PLAN AND PROFILE											
Km 29+400 to Km 30+100											
VERT: 1:250											
SCALE AT AS SIZE DRAWING											
HORIZ: 1:2500											



Design No. Change	No. x w x H Length	At Center					At LHS		At RHS		Foundation Lvl.	PCC Bottom	Top of Bott. Slab	Bot of Top of Slab center	Top of Top of Slab center	Top of Top of LHS	Top of Top of RHS	EARTH CUSHION	
		a	b	c	d	e													
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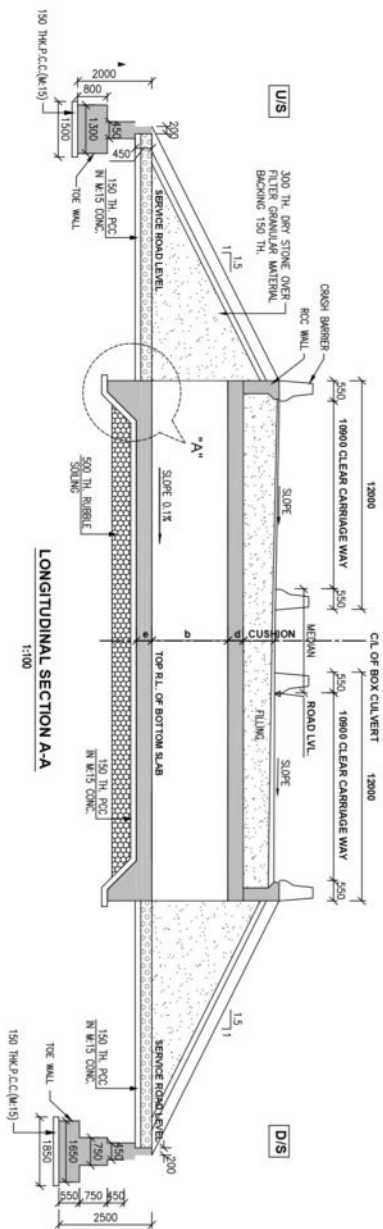




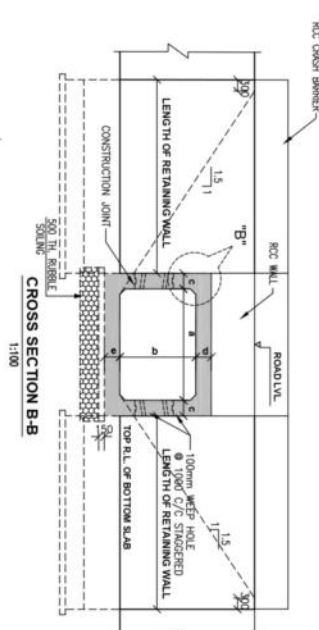




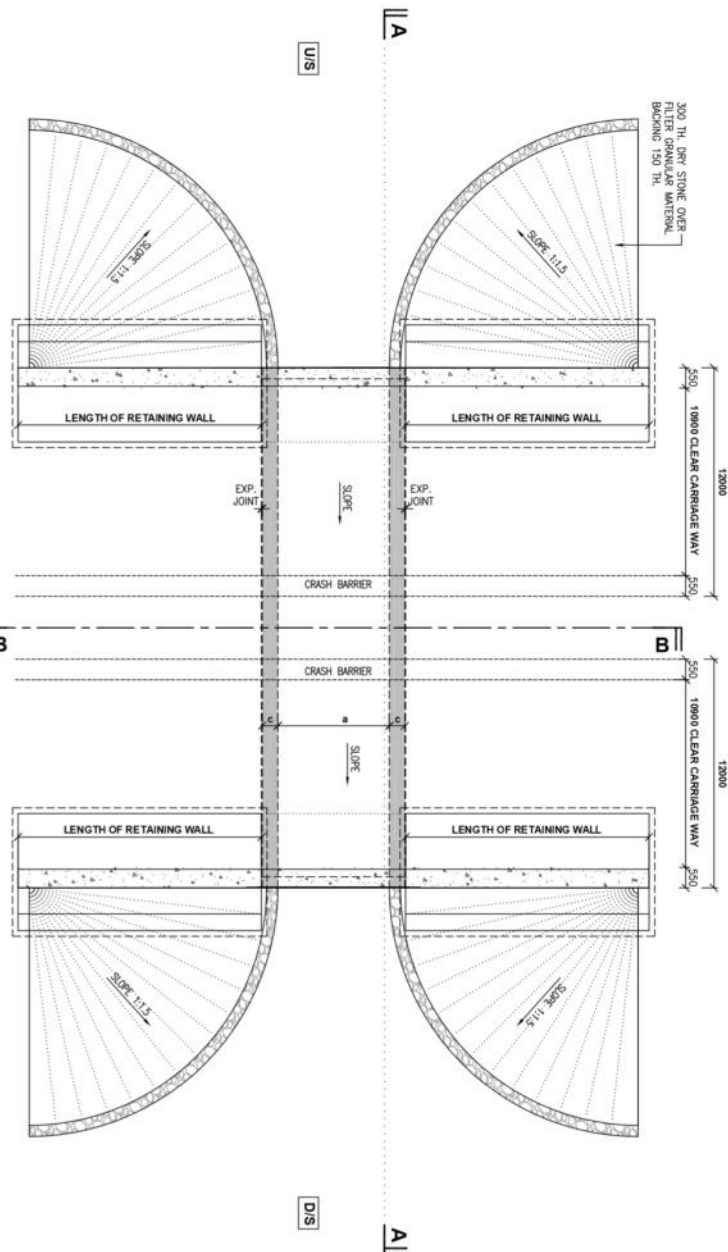




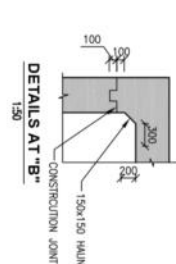
LONGITUDINAL SECTION A-A  
1:100



CROSS SECTION B-B  
1:100



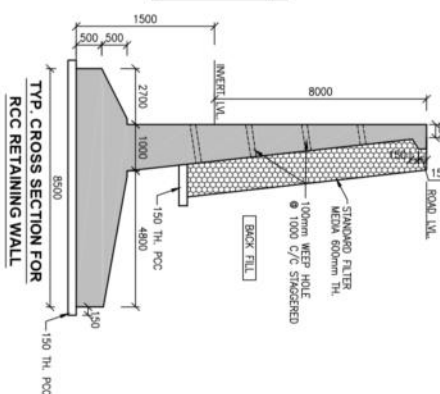
PLAN  
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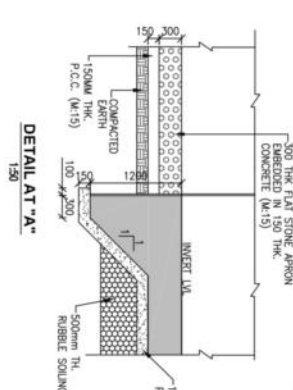
DETAILS AT "B"  
1:50

ELEMENTS	CONCRETE GRADE
(a) BOX CELL STRUCTURE	M-40
(b) RCC RETAINING WALL	M-40
(c) PCC CURB & TOE WALL	M-20
(d) LEVELING COURSE (P.C.C.)	M-15
(e) RCC CRASH BARRIER	M-40
(f) RCC WALL	M-40

NOTES:-  
(1) ALL DIMENSIONS ARE IN MILLIMETER.  
(2) DO NOT SCALE THIS DRAWING.  
(3) THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.



TYP. CROSS SECTION FOR  
RCC RETAINING WALL



DETAIL AT "A"  
1:50

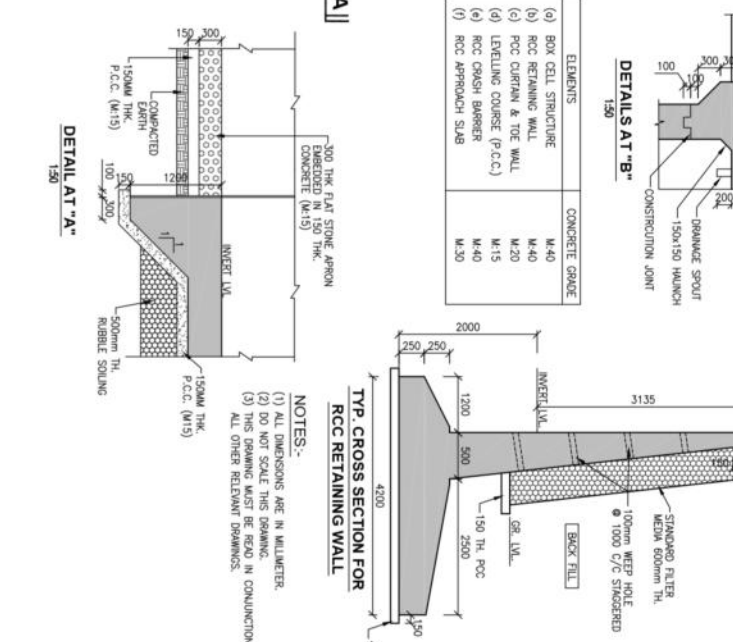
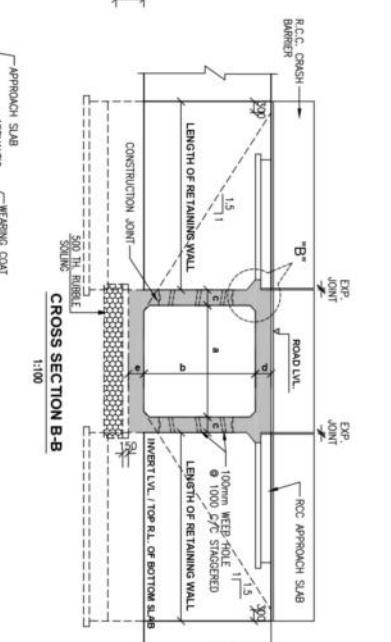
Sr. No.	Design Chainage	No. x w x H	Length	a	b	c	d	e	At Center	At LHS	At RHS	Foundation Lvl.	PCC Bottom	Top of Slab @ center	Top of Top Slab @ center	Top of Top Slab @ LHS	Top of Top Slab @ RHS	Top of EARTH CUSHION
C3	27+649	1x12.0mx6.0m	24	12.00	6.00	0.700	0.700	0.750	351.019	351.463	350.575	341.569	341.419	342.319	348.319	349.019	349.019	2.000m

FINISHED ROAD LEVELS

LEVELS

SCALE AT A1 SIZE DRAWING  
0 20 40 60 80 100  
0 2 4 6 8 10  
640 OF VVP 1x12.0mx6.0m WITH CUSHION AT CH 27+649

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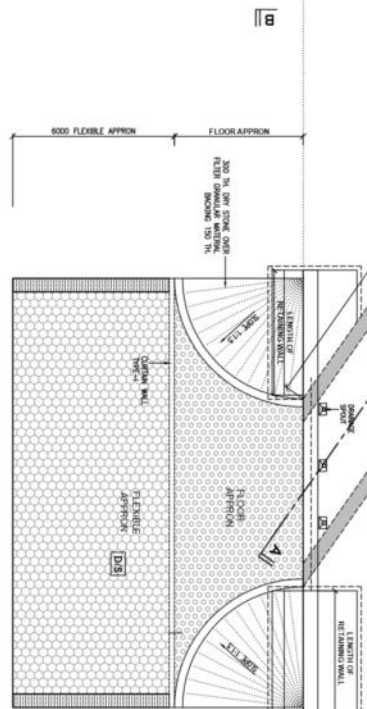
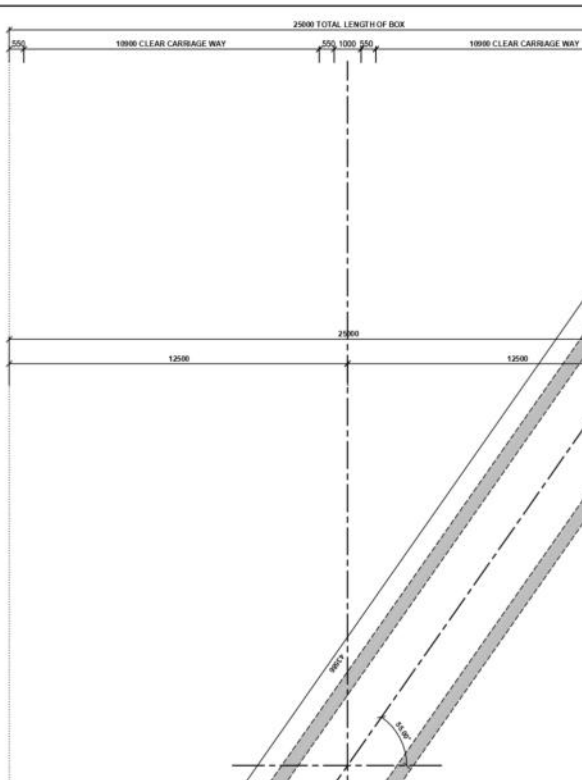
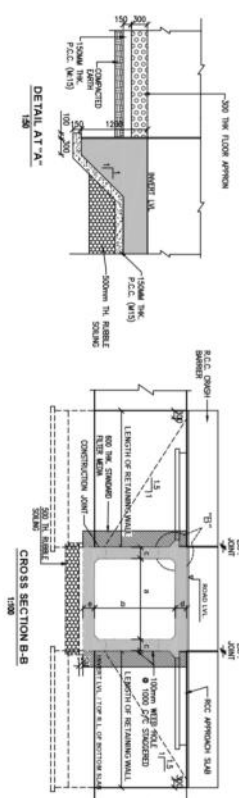
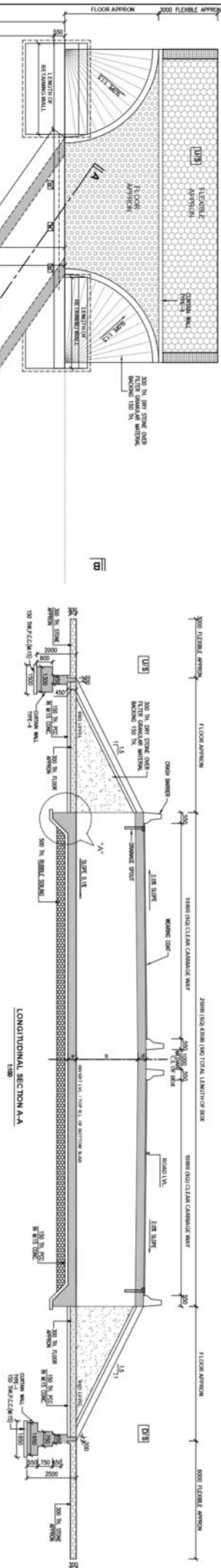


Sr. Design No. Changeage	No. x w x h length	a	b	c	d	e	FINISHED ROAD LEVELS				LEVELS						
							At Center	At LHS	At RHS	Foundation Lvl.	PCC Bottom	Top of Bot. Slab	Top of Slab @ center	Top of Slab @ LHS	Top of Top Slab @ RHS		
Cd-28-077	1x1m x 3m	2.4	3.000	3.000	0.300	0.300	0.350	352.543	352.243	352.243	348.818	348.668	349.168	352.168	352.468	352.168	352.168

CLIENT	NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PFI BUILDING, 4 PARLIAMENT STREET SANSAD MARG AREA, NEW DELHI - 110001
DESIGN CONSULTANT	ANANDJIWALA INFRA ADVISORY Anandjiwala Shipping Centre, 10/132 First Ring Road Bh. Sarangpur (Cross Road), Sector-4, Chandigarh - 160015 Email: anandjiwala@rediffmail.com
PROJECT	CONSULTANCY SERVICES FOR FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES FOR UPGRADATION OF EXISTING 2 LANE HIGHWAY TO A 4 LANE WITH PAVED SHOULDER CONFIGURATION (NH-144A) FROM KM 26.350 (KHAITI CHOWK) TO KM 30.097 (HANUMAN CHOWK) OF JAMMU & KASHMIR SECTION IN THE UNION TERRITORY OF JAMMU & KASHMIR ON EPC BASIS
SCALE & IN SITU DRAWING	
TITLE	GAD OF SINGLE CELL BOX CULVERT 3.0x3.0 m WITHOUT CUSHION AT CH. 28+077
CLIENT APPROVAL	SIGNATURE
DESIGN APPROVAL	DESIGNED
CHECKED	DESIGNED
LA	LA







ELEMENTS	CONCRETE GRADE
(a) BOX CELL STRUCTURE	M40
(b) RCC RETAINING WALL	M40
(c) PCC CURB/IN & TOE WALL	M20
(d) LEVELLING COURSE (P.C.C.)	M15
(e) RCC CROWN BARRIER	M40
(f) RCC APPROACH SLAB	M20

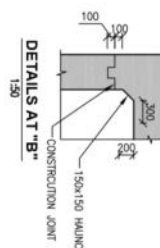
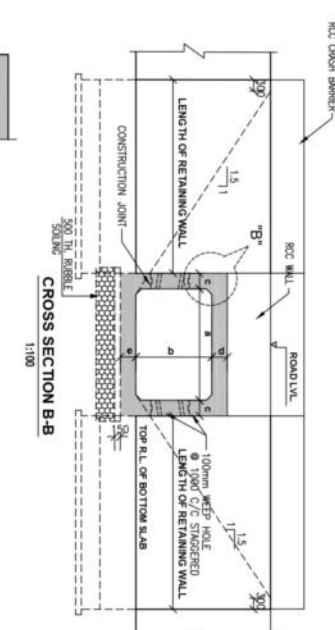
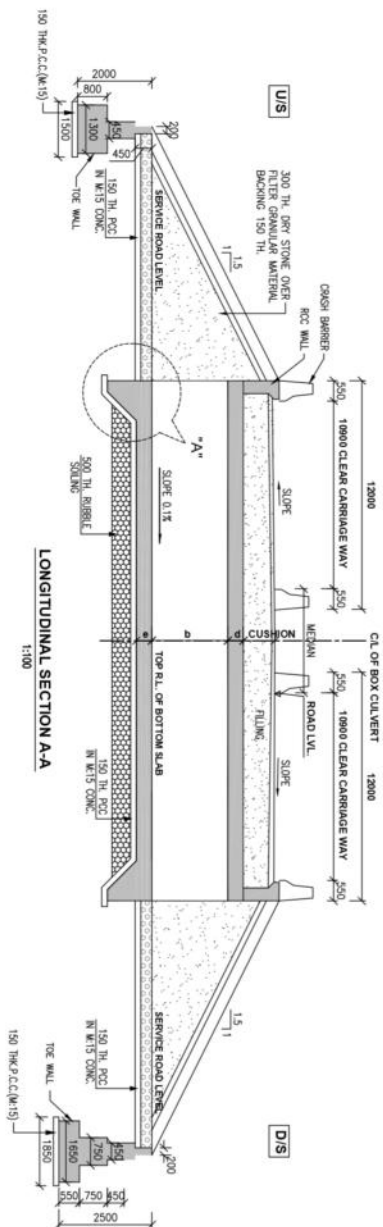
NOTES:-

- (1) ALL DIMENSIONS ARE IN MILLIMETER.
- (2) DO NOT SCALE THIS DRAWING.
- (3) THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT CHANGES.

Case	Age	Sex	Height	Weight	BMI	Fasting blood glucose		Fasting insulin		HbA1c		Fasting C-peptide		Fasting proinsulin		Fasting proinsulin/C-peptide		Fasting proinsulin/total insulin	
						mmol/L	mg/dL	pmol/L	pmol/L	%	pmol/L	pmol/L	pmol/L	pmol/L	pmol/L	pmol/L	pmol/L	pmol/L	pmol/L
1	24	F	1.63	60.0	36.8	5.6	1.1	1.1	1.1	5.6	5.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
2	24	F	1.63	60.0	36.8	5.6	1.1	1.1	1.1	5.6	5.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
3	24	F	1.63	60.0	36.8	5.6	1.1	1.1	1.1	5.6	5.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
4	24	F	1.63	60.0	36.8	5.6	1.1	1.1	1.1	5.6	5.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
5	24	F	1.63	60.0	36.8	5.6	1.1	1.1	1.1	5.6	5.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
6	24	F	1.63	60.0	36.8	5.6	1.1	1.1	1.1	5.6	5.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
7	24	F	1.63	60.0	36.8	5.6	1.1	1.1	1.1	5.6	5.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
8	24	F	1.63	60.0	36.8	5.6	1.1	1.1	1.1	5.6	5.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
9	24	F	1.63	60.0	36.8	5.6	1.1	1.1	1.1	5.6	5.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
10	24	F	1.63	60.0	36.8	5.6	1.1	1.1	1.1	5.6	5.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
11	24	F	1.63	60.0	36.8	5.6	1.1	1.1	1.1	5.6	5.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
12	24	F	1.63	60.0	36.8	5.6	1.1	1.1	1.1	5.6	5.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
13	24	F	1.63	60.0	36.8	5.6	1.1	1.1	1.1	5.6	5.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
14	24	F	1.63	60.0	36.8	5.6	1.1	1.1	1.1	5.6	5.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
15	24	F	1.63	60.0	36.8	5.6	1.1	1.1	1.1	5.6	5.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
16	24	F	1.63	60.0	36.8	5.6	1.1	1.1	1.1	5.6	5.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
17	24	F	1.63	60.0	36.8	5.6	1.1	1.1	1.1	5.6	5.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
18	24	F	1.63	60.0	36.8	5.6	1.1	1.1	1.1	5.6	5.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
19	24	F	1.63	60.0	36.8	5.6	1.1	1.1	1.1	5.6	5.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
20	24	F	1.63	60.0	36.8	5.6	1.1	1.1	1.1	5.6	5.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1

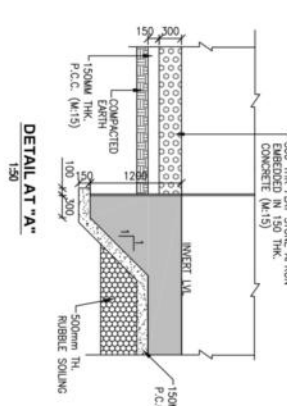
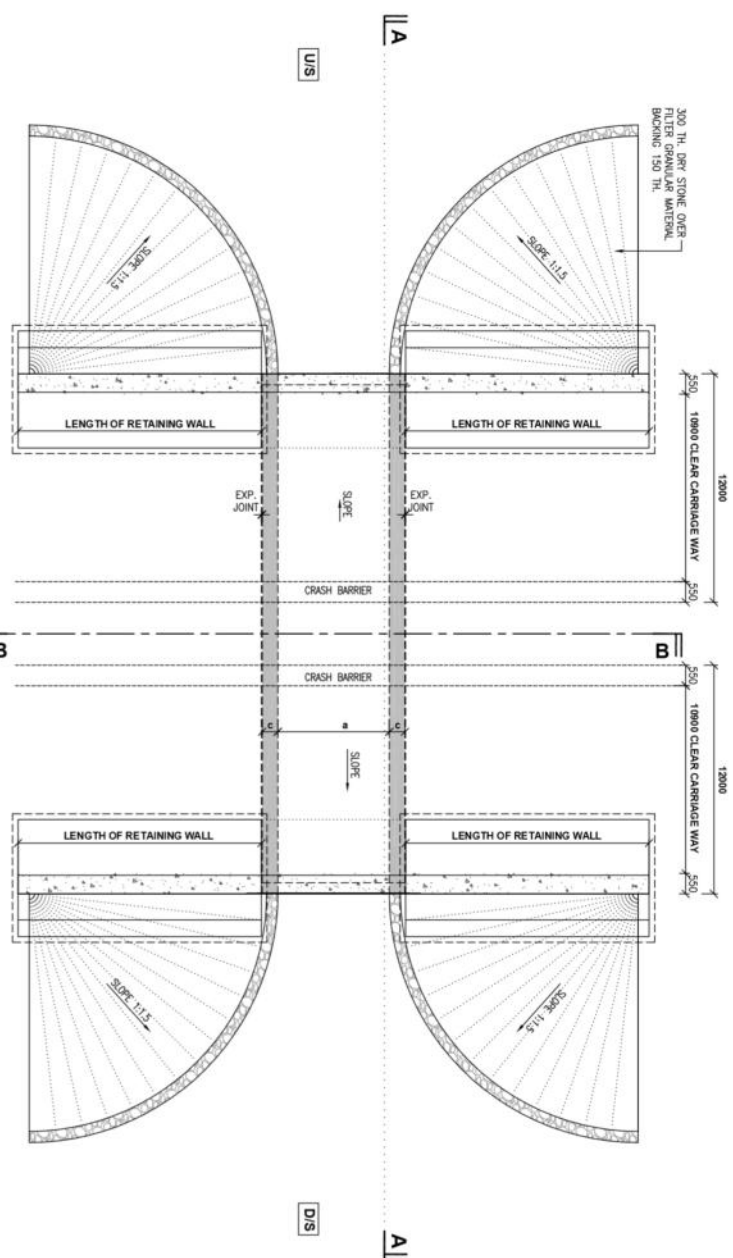
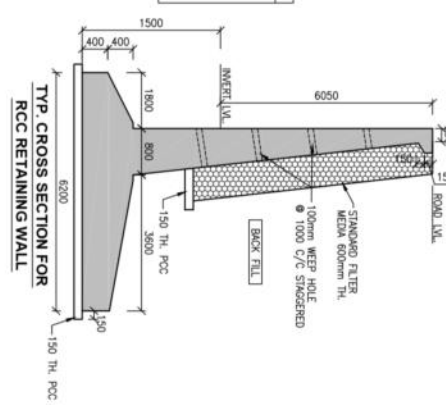
PROJECT:	CONSULTANCY SERVICES FOR FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES FOR UPGRADE/REPAIR OF EXISTING 2 LANE HIGHWAY TO 4 LANE WITH PAVED SHOULDER CONFIGURATION (NH-144A) FROM KM 26.550 (KHATTI CHOWK) TO KM 30.097 (HAUMANNA CHOWK) OF JAMMU - AKHNOOR SECTION IN THE UNION TERRITORY OF JAMMU & KASHMIR ON CPC BASIS
CLIENT:	ANANDJIWALA INFRA ADVISORY
DESIGN CONSULTANT:	9, Shastri Nagar Building, Centre, (In 137 Feet Ring Road) M. Shastri Nagar, Civil Lines, Srinagar, Jammu & Kashmir - 190015 Email: anandjiwala@rediffmail.com
DEVELOPMENT CORPORATION LTD.	NATIONAL HIGHWAYS & INFRASTRUCTURE
PRT BUILDING, 6 PARLIAMENT STREET	
SANKAR MARG AREA, NEW DELHI - 110001	
REGIONS:	
DATE:	
BY:	
SCALE: AS SHOWN	
TITLE:	GAD OF SINGLE CELL BOX CULVERT 6.00m x 6.00m WITHOUT CUSHION AT CH-28+586
DATE:	
DESIGNED:	
CHECKED:	
BY:	
DATE:	
APPROVED:	
BY:	
DATE:	





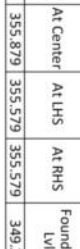
ELEMENTS	CONCRETE GRADE
(a) BOX CELL STRUCTURE	M-40
(b) RCC RETAINING WALL	M-40
(c) PCC CRASH & TOE WALL	M-20
(d) LEVELING COURSE (P.C.C.)	M-15
(e) RCC CRASH BARRIER	M-40
(f) RCC WALL	M-40

**NOTES:-**  
 (1) ALL DIMENSIONS ARE IN MILLIMETER.  
 (2) DO NOT SCALE THIS DRAWING.  
 (3) THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.



Sr. No.	Design Chainage	No. x w x H	Length	a	b	c	d	e	At Center	At LHS	At RHS	Foundation Lvl.	Bottom	Top of Bot. Slab	Top of Top Slab @ Center	Top of Top Slab @ LHS	Top of Top Slab @ RHS	Top of EARTH CUSHION
C7	28+680	1x10.0mx4.5m	24	10.00	4.50	0.550	0.550	0.600	355.879	355.579	355.579	349.229	349.079	349.829	354.329	354.879	354.879	1.000m

FINISHED ROAD LEVELS			LEVELS		
At Center	At LHS	At RHS	Foundation Lvl.	Bottom	Top of Bot. Slab
355.879	355.579	355.579	349.229	349.079	349.829



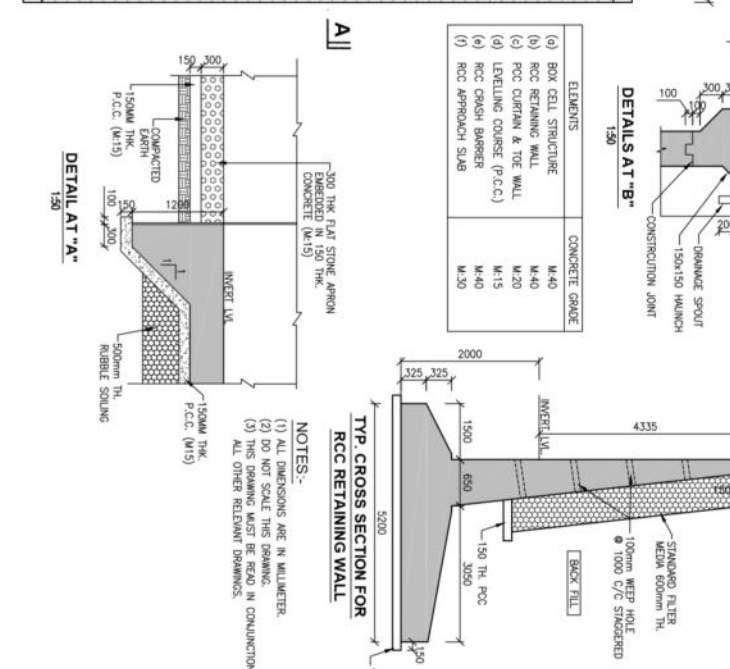
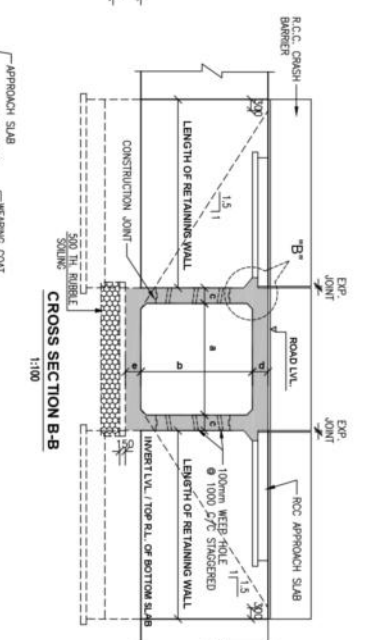
**NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.**  
 PFI BUILDING, 4 PARLIAMENT STREET  
 SANSAD MARG AREA, NEW DELHI - 110001

**ANANDJIWALA INFRA ADVISORY**  
 9, Shri Ram Shopping Centre, On 127 Feet Ring Road  
 In Shri Ram Shopping Centre, Saket, New Delhi - 110015  
 Email: anandjiwala@anad.com

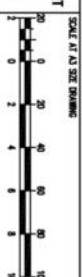
**CONSULTANCY SERVICES FOR FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES FOR UPGRADEATION OF EXISTING 2 LANE HIGHWAY TO A 4 LANE WITH PAVED SHOULDER CONFIGURATION (NH-144A) FROM KM 26.350 (KHATTI CHOWN) TO KM 30.897 (HANUMAN CHOWN) OF JAMMU & KASHMIR SECTION IN THE UNION TERRITORY OF JAMMU & KASHMIR ON EPC BASIS**

**TITLE**  
 GAD OF 1:100 1x10.0mx4.5m WITH CUSHION  
 AT CH 28+680

DATE	DESIGNED	CHECKED	APPROVED
LK	SI	SC	LA



Sr. Design No. Change	No. x w x H	Length	Foundation					PCC Bottom	Top of Slab	Bot of Top Slab @ Center	Top of Top Slab @ LHS					
			a	b	c	d	e									
C8-29-025	1x6.0mx4.0m	2.4	6.000	4.000	0.500	0.500	0.550	353.000	352.700	352.700	347.875	347.725	348.425	352.425	352.925	352.625



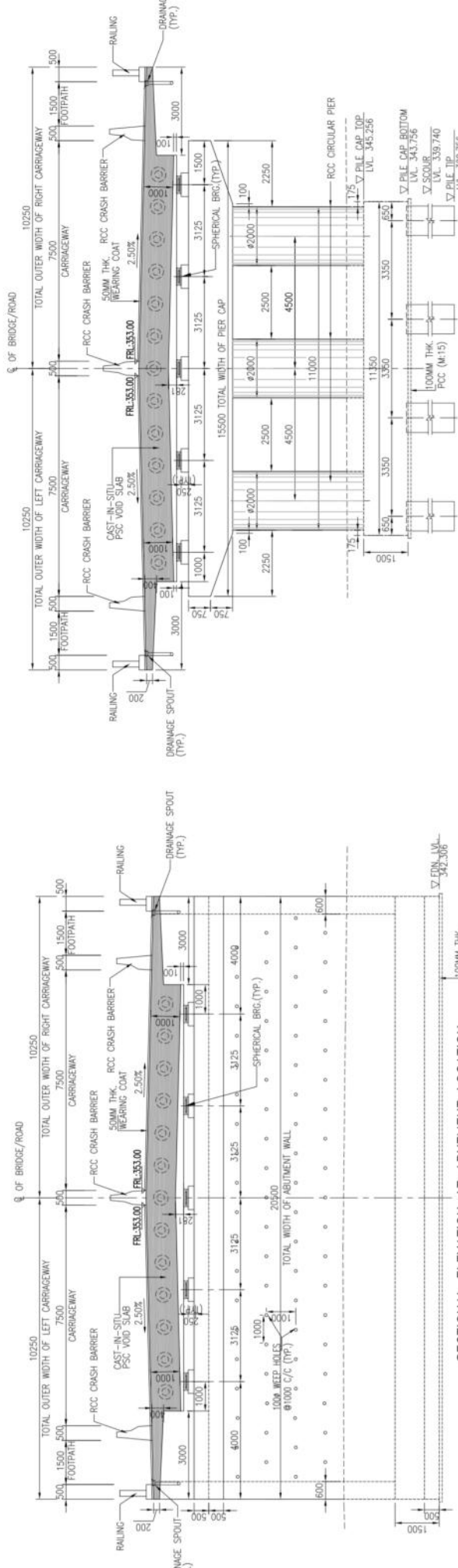
GAD OF SINGLE CELL BOX CULVERT 6.0x4.0m  
WITHOUT CUSHION AT CH: 29+025

[illegible]

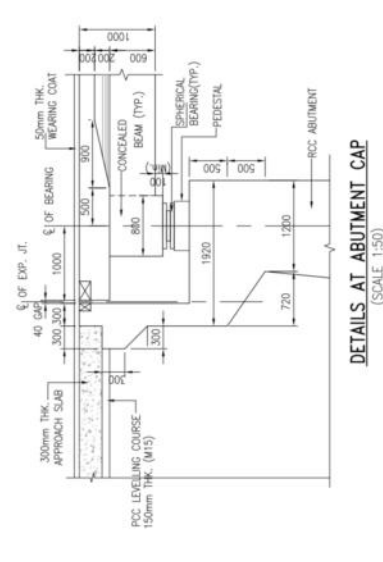




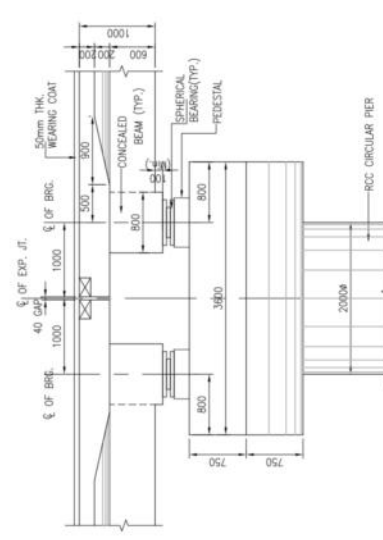




SECTIONAL ELEVATION AT ABUTMENT LOCATION  
(SCALE:- 1:100)



DETAILS AT ABUTMENT CAP  
(SCALE 1:50)



DETAILS AT ABUTMENT CAP  
(SCALE 1:50)

SECTIONAL ELEVATION AT PIER-P1 LOCATION  
(SCALE:- 1:100)



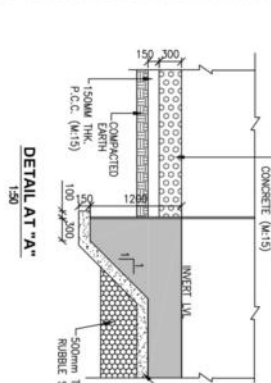
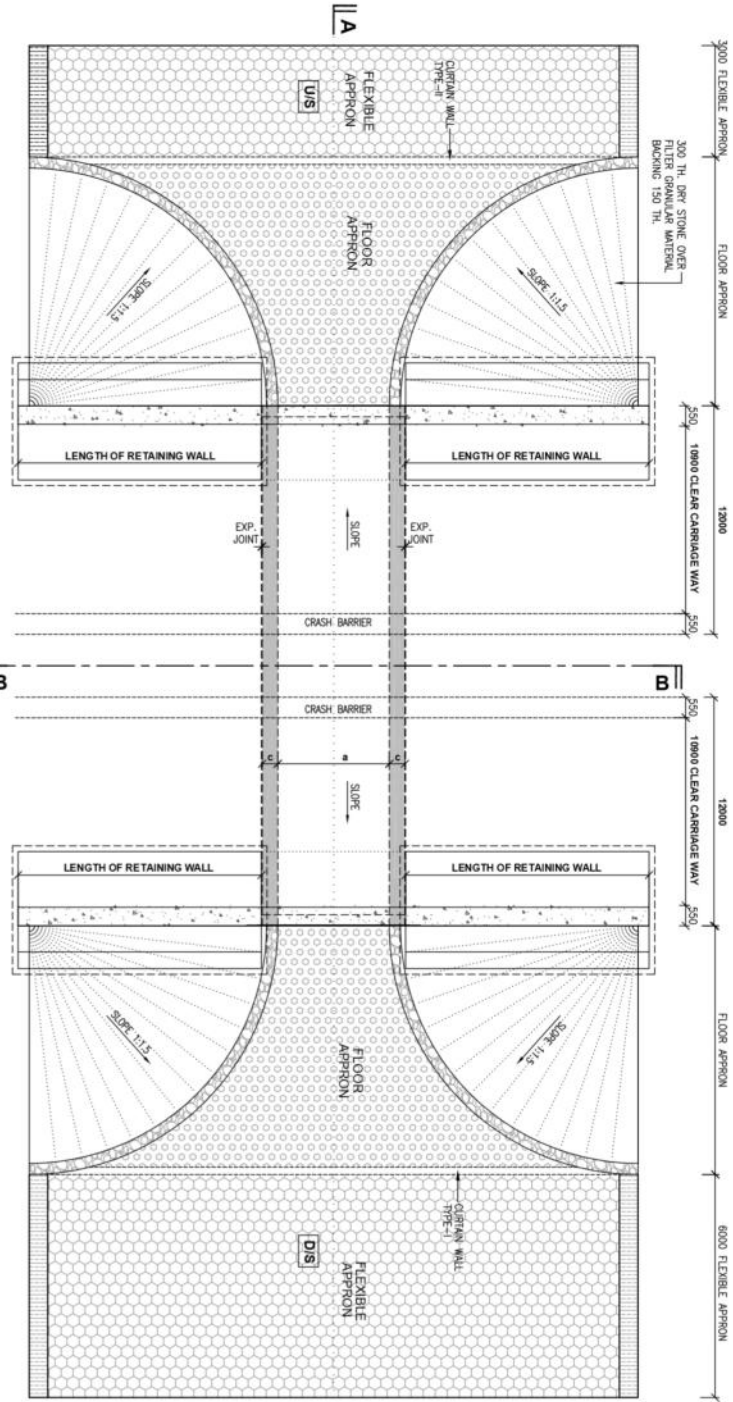
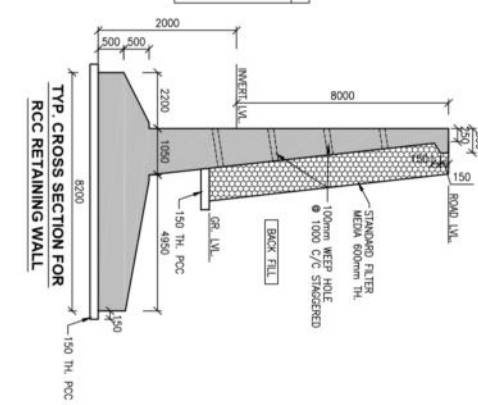
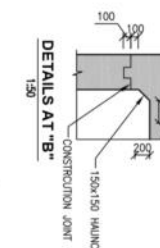
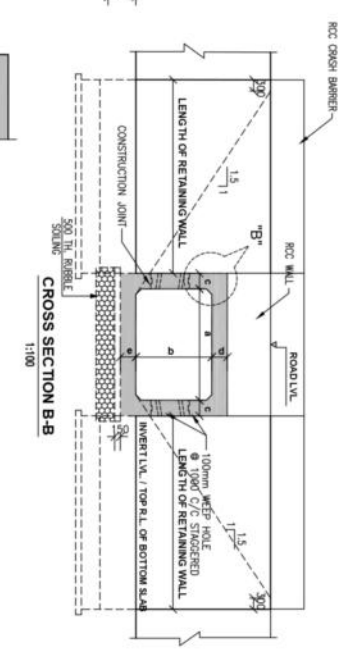
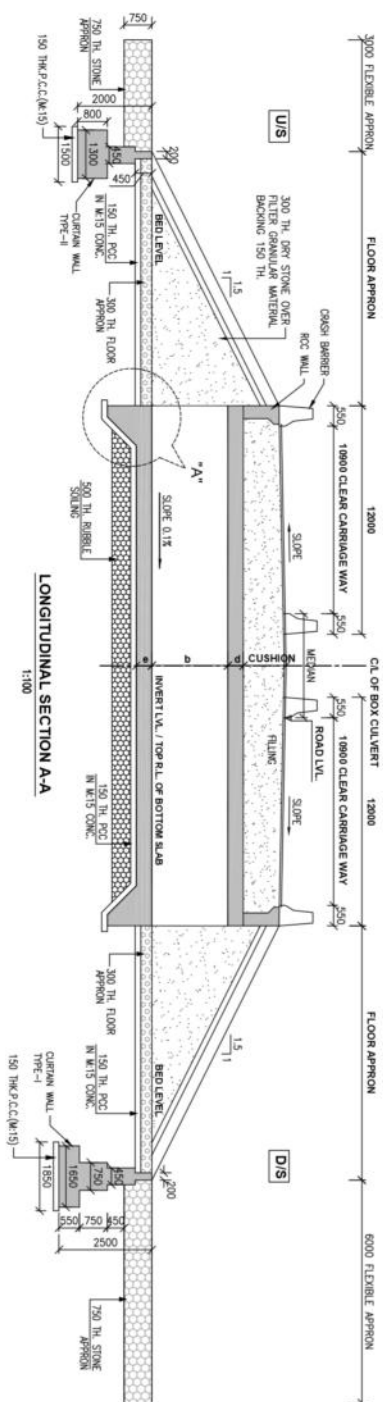
REFERENCE DRAWINGS:

- PSC VOID SLAB DIMEN. DETAILS :-NHDDCL/JA/STR/MNB/29+150/NU/401

NOTES:

- ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED. NO DIMENSION IS TO BE SCALED.
- FOR ALL OTHER NOTES REFER SHEET 01 OF 02.

A		B		C		D		E		F		G		H		I		J		K		L		M		N		O		P		Q		R		S		T		U		V		W		X		Y		Z		AA		AB		AC		AD		AE		AF		AG		AH		AI		AJ		AK		AL		AM		AN		AO		AP		AQ		AR		AS		AT		AU		AV		AW		AX		AY		AZ		BA		BB		BC		BD		BE		BF		BG		BH		BI		BJ		BK		BL		BM		BN		BO		BP		BQ		BR		BS		BT		BU		BV		BW		BX		BY		BZ		CA		CB		CC		CD		CE		CF		CG		CH		CI		CJ		CK		CL		CM		CN		CO		CP		CQ		CR		CS		CT		CU		CV		CW		CX		CY		CZ		DA		DB		DC		DD		DE		DF		DG		DH		DI		DJ		DK		DL		DM		DN		DO		DP		DQ		DR		DS		DT		DU		DV		DW		DX		DY		DZ		EA		EB		EC		ED		EE		EF		EG		EH		EI		EJ		EK		EL		EM		EN		EO		EP		EQ		ER		ES		ET		EU		EV		EW		EX		EY		EZ		FA		FB		FC		FD		FE		FF		FG		FH		FI		FJ		FK		FL		FM		FN		FO		FP		FQ		FR		FS		FT		FU		FV		FW		FX		FY		FZ		GA		GB		GC		GD		GE		GF		GG		GH		GI		GJ		GK		GL		GM		GN		GO		GP		GQ		GR		GS		GT		GU		GV		GW		GX		GY		GZ		HA		HB		HC		HD		HE		HF		HG		HH		HI		HJ		HK		HL		HM		HN		HO		HP		HQ		HR		HS		HT		HU		HV		HW		HX		HY		HZ		IA		IB		IC		ID		IE		IF		IG		IH		II		IJ		IK		IL		IM		IN		IO		IP		IQ		IR		IS		IT		IU		IV		IW		IX		IY		IZ		JA		JB		JC		JD		JE		JF		JG		JH		JI		JJ		JK		JL		JM		JN		JO		JP		JQ		JR		JS		JT		JU		JV		JW		JX		JY		JZ		KA		KB		KC		KD		KE		KF		KG		KH		KI		KJ		KK		KL		KM		KN		KO		KP		KQ		KR		KS		KT		KU		KV		KW		KX		KY		KZ		LA		LB		LC		LD		LE		LF		LG		LH		LI		LJ		LK		LM		LN		LO		LP		LQ		LR		LS		LT		LU		LV		LW		LX		LY		LZ		MA		MB		MC		MD		ME		MF		MG		MH		MI		MJ		MK		ML		MN		MO		MP		MQ		MR		MS		MT		MU		MV		MW		MX		MY		MZ		NA		NB		NC		ND		NE		NF		NG		NH		NI		NJ		NK		NL		NM		NO		NP		NQ		NR		NS		NT		NU		NV		NW		NX		NY		NZ		OA		OB		OC		OD		OE		OF		OG		OH		OI		OJ		OK		OL		OM		ON		OO		OP		OQ		OR		OS		OT		OU		OV		OW		OX		OY		OZ		PA		PB		PC		PD		PE		PF		PG		PH		PI		PJ		PK		PL		PM		PN		PO		PP		PQ		PR		PS		PT		PU		PV		PW		PX		PY		PZ		QA		QB		QC		QD		QE		QF		QG		QH		QI		QJ		QK		QL		QM		QN		QO		QP		QQ		QR		QS		QT		QU		QV		QW		QX		QY		QZ		RA		RB		RC		RD		RE		RF		RG		RH		RI		RJ		RK		RL		RM		RN		RO		RP		RQ		RR		RS		RT		RU		RV		RW		RX		RY		RZ		SA		SB		SC		SD		SE		SF		SG		SH		SI		SJ		SK		SL		SM		SN		SO		SP		SQ		SR		SS		ST		SU		SV		SW		SX		SY		SZ		TA		TB		TC		TD		TE		TF		TG		TH		TI		TJ		TK		TL		TM		TN		TO		TP		TQ		TR		TS		TT		TU		TV		TW		TX		TY		TZ		UA		UB		UC		UD		UE		UF		UG		UH		UI		UJ		UK		UL		UM		UN		UO		UP		UQ		UR		US		UT		UU		UV		UW		UX		UY		UZ		VA		VB		VC		VD		VE		VF		VG		VH		VI		VJ		VK		VL		VM		VN		VO		VP		VQ		VR		VS		VT		VU		VV		VW		VX		VY		VZ		WA		WB		WC		WD		WE		WF		WG		WH		WI		WJ		WK		WL		WM		WN		WO		WP		WQ		WR		WS		WT		WU		WV		WW		WX		WY		WZ		XA		XB		XC		XD		XE		XF		XG		XH		XI		XJ		XK		XL		XM		XN		XO		XP		XQ		XR		XS		XT		XU		XV		XW		XX		XY		XZ		YA		YB		YC		YD		YE		YF		YG		YH		YI		YJ		YK		YL		YM		YN		YO		YP		YQ		YR		YS		YT		YU		YV		YW		YX		YY		YZ		ZA		ZB		ZC		ZD		ZE		ZF		ZG		ZH		ZI		ZJ		ZK		ZL		ZM		ZN		ZO		ZP		ZQ		ZR		ZS		ZT		ZU		ZV		ZW		ZX		ZY		ZZ		AA		AB		AC		AD		AE		AF		AG		AH		AI		AJ		AK		AL		AM		AN		AO		AP		AQ		AR		AS		AT		AU		AV		AW		AX		AY		AZ		BA		BB		BC		BD		BE		BF		BG		BH		BI		BJ		BK		BL		BM		BN		BO		BP		BQ		BR		BS		BT		BU		BV		BW		BX		BY		BZ		CA		CB		CC		CD		CE		CF		CG		CH		CI		CJ		CK		CL		CM		CN		CO		CP		CQ		CR		CS		CT		CU		CV		CW		CX		CY		CZ		DA		DB		DC		DD		DE		DF		DG		DH		DI		DJ		DK		DL		DM		DN		DO		DP		DQ		DR		DS		DT		DU		DV		DW		DX		DY		DZ		EA		EB		EC		ED		EE		EF		EG		EH		EI		EJ		EK		EL		EM		EN		EO		EP		EQ		ER		ES		ET		EU		EV		EW		EX		EY		EZ		FA		FB		FC		FD		FE		FF		FG		FH		FI		FJ		FK		FL		FM		FN		FO		FP		FQ		FR		FS		FT		FU		FV		FW		FX		FY		FZ		GA		GB		GC		GD		GE		GF		GG		GH		GI		GJ		GK		GL		GM		GN		GO		GP		GQ		GR		GS		GT		GU		GV		GW		GX		GY		GZ		HA		HB		HC		HD		HE		HF		HG		HH		HI		HJ		HK		HL		HM		HN		HO		HP		HQ		HR		HS		HT		HU		HV		HW		HX		HY		HZ		IA		IB		IC		ID		IE		IF		IG		IH		II		IJ		IK		IL		IM		IN		IO		IP		IQ		IR		IS		IT		IU		IV		IW		IX		IY		IZ		JA		JB		JC		JD		JE		JF		JG		JH		JI		JJ		JK		JL		JM		JN		JO		JP		JQ		JR		JS		JT		JU		JV		JW		JX		JY		JZ		KA		KB		KC		KD		KE		KF		KG		KH		KI		KJ		KL		KM		KN		KO		KP		KQ		KR		KS		KT		KU		KV		KW		KX		KY		KZ		LA		LB		LC		LD		LE		LF		LG		LH		LI		LJ		LK		LM		LN		LO		LP		LQ		LR		LS		LT		LU		LV		LW		LX		LY		LZ		MA		MB		MC		MD		ME		MF		MG		MH		MI		MJ		MK		ML		MN		MO		MP		MQ		MR		MS		MT		MU		MV		MW		MX		MY		MZ		NA		NB		NC		ND		NE		NF		NG		NH		NI		NJ		NK		NL		NM		NO		NP		NQ		NR		NS		NT		NU		NV		NW		NX		NY		NZ		OA		OB		OC		OD		OE		OF		OG		OH		OI		OJ		OK		OL		OM		ON		OO		OP		OQ		OR		OS		OT		OU		OV		OW		OX		OY		OZ		PA		PB		PC		PD		PE		PF		PG		PH		PI		PJ		PK		PL		PM		PN		PO		PP		PQ		PR		PS		PT		PU		PV		PW		PX		PY		PZ		QA		QB		QC		QD		QE		QF		QG		QH		QI		QJ		QK		QL		QM		QN		QO		QP		QQ		QR		QS		QT		QU		QV		QW		QX		QY		QZ		RA		RB		RC		RD		RE		RF		RG		RH		RI		RJ		RK		RL		RM		RN		RO		RP		RQ		RR		RS		RT		RU		RV		RW		RX		RY		RZ		SA		SB		SC		SD		SE		SF		SG		SH		SI		SJ		SK		SL		SM		SN		SO		SP		SQ		SR		SS		ST		SU		SV		SW		SX		SY		SZ		TA		TB		TC		TD		TE		TF		TG		TH		TI		TJ		TK		TL		TM		TN		TO		TP		TQ		TR		TS		TT		TU		TV		TW		TX		TY		TZ		UA		UB		UC		UD		UE		UF		UG		UH		UI		UJ		UK		UL		UM		UN		UO		UP		UQ		UR		US		UT		UU		UV		UW		UX		UY		UZ		VA		VB		VC		VD		VE		VF		VG		VH		VI		VJ		VK		VL		VM		VN		VO		VP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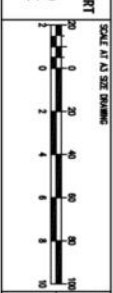


S. No.	Design No.	Challenge	No. x w x H	Length						At LHS		At RHS		Foundation Lvl.	PCC Bottom	Top of Bott. Slab	Bot of Top of Slab@ center	Top of Top of Slab@ LHS	Top of Top Slab @ RHS	EARTH CUSHION
					a	b	c	d	e	At Center	At LHS	At RHS								
C9	29+3.27	16x6x4.0m	24	6,000	4,000	0.500	0.500	0.500	357.406	357.106	357.106	348.856	348.706	349.406	355.406	353.906	353.906	353.906	3.500 m	

**NATIONAL HIGHWAYS & INFRASTRUCTURE  
DEVELOPMENT CORPORATION LTD.**  
PTI BUILDING, 4 PARLIAMENT STREET  
SANSAD MARG AREA, NEW DELHI - 110001

**ANANDJIWALA INFRA ADVISORY**  
9, Sahityaraj Shreeing Center, On 127 Feet Ring Road  
Nr. Sahityaraj Cross Road, Sec-16E, Abroadside - 380 013  
Email: anandjiwalainfra@gmail.com

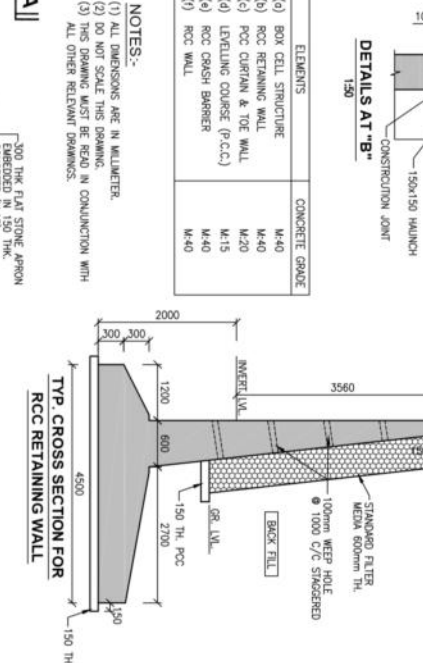
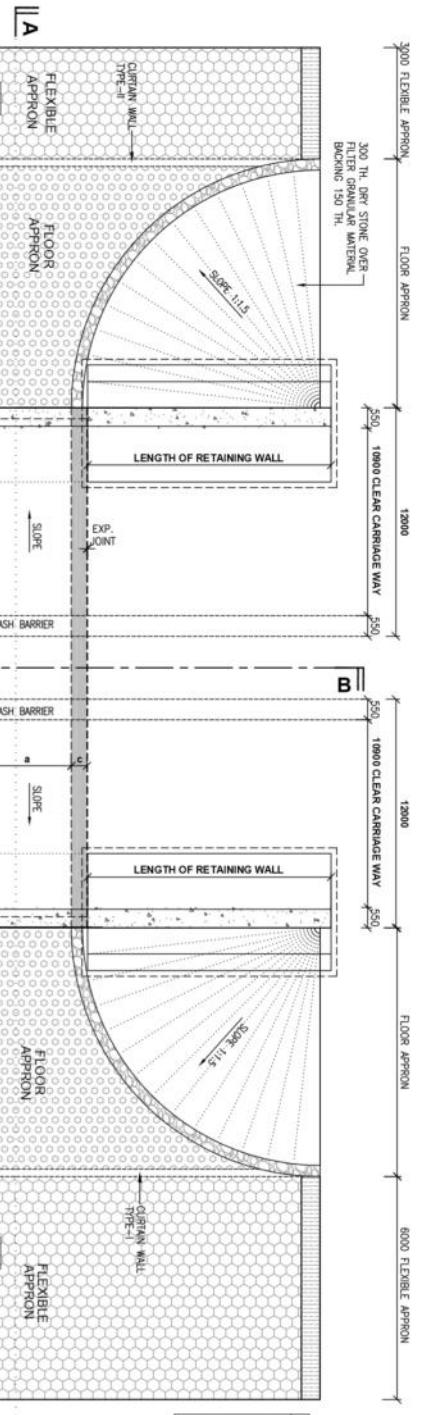
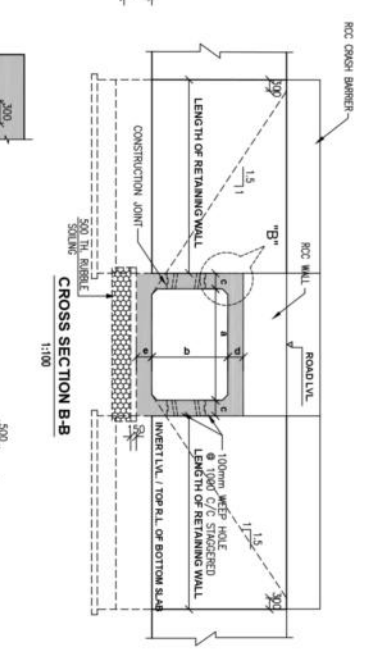
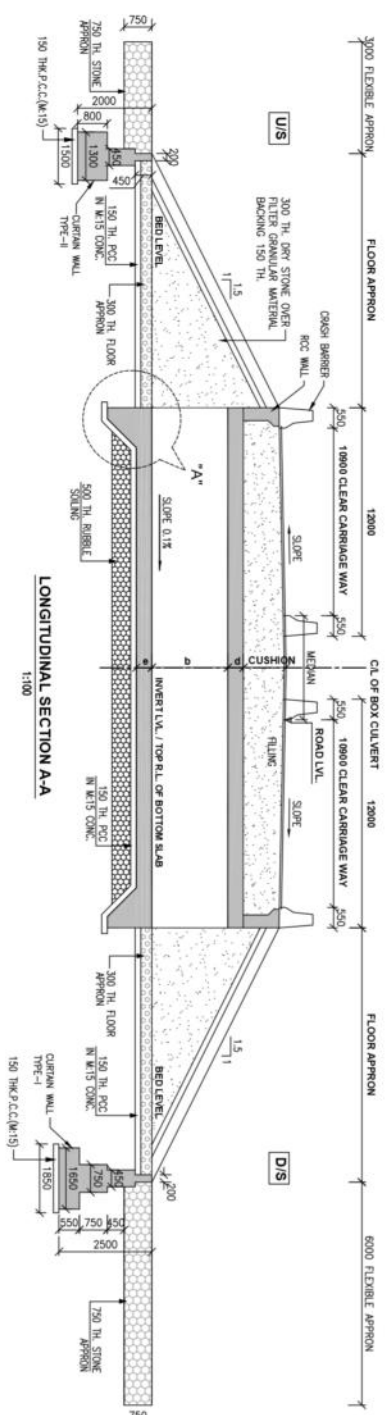
**PROJECT:** CONSULTANCY SERVICES FOR FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES FOR OPERADATION OF EXISTING 2 LANE HIGHWAY TO 4 LANE WITH PAVED SHOULDER CONFIGURATION (NH-144) FROM KM 26.350 (KHAZI CHOWK) TO KM 30.97 (HAINAMUN CHOWK) OF JAMMU - KASHMIR SECTION IN THE UNION TERRITORY OF JAMMU & KASHMIR ON EPC BASIS



**TEL:**  
GAD OF SINGLE CELL BOX CULTURE 6.0x4.00  
WITH CUSHION AT CH: 29+327

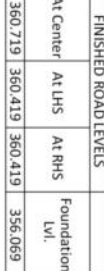
CLIENT APPROVAL:		SIGNATURE:	
DATE REC'D:			
DATE:	CREATED:	DESIGNED:	APPROVED:
LK	SJ	SC	LA





FINISHED ROAD LEVELS									
Sr. No.	Design Chainage	No. x w x H	Length	a	b	c	d	e	
C10	29+641	1.5x3x3m	24	3,000	3,000	0.300	0.300	0.350	

LEVELS									
	Foundation Lvl.	Top of Bottom Slab	Bot of Top Slab @ Center	Top of Top Slab @ LHS	Top of Top Slab @ RHS	Top of Top Slab @ LHS	Top of Top Slab @ RHS	Top of Top Slab @ LHS	Top of Top Slab @ RHS
	356.069	355.919	356.419	359.719	359.719	359.719	359.719	359.719	359.719



TYP. CROSS SECTION FOR RCC RETAINING WALL									
300 THK. FLAT STONE APRON EMBEDDED IN 150 THK. CONCRETE (M15)	150 THK. P.C.C. (M15)	100mm THK. RUBBLE SOILING	150mm THK. P.C.C. (M15)	100mm THK. RUBBLE SOILING	150mm THK. P.C.C. (M15)	100mm THK. RUBBLE SOILING	150mm THK. P.C.C. (M15)	100mm THK. RUBBLE SOILING	150mm THK. P.C.C. (M15)

REV

DATE

REVISIONS

CLIENT

NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.

PTI BUILDING, 4 PARLIAMENT STREET

SANSAD MARG AREA, NEW DELHI - 110001

DESIGN CONSULTANT

ANANDJIWALA INFRA ADVISORY

9, Shreeganga Shopping Centre, On 127 Feet Ring Road

No. Shreeganga Cross Road, Sector 14, Gurgaon - 122001

Email: anandjiwala@anandjiwala.com

PROJECT

CONSULTANCY SERVICES FOR FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES FOR UPGRADE/CONSTRUCTION OF EXISTING 2 LANE HIGHWAY TO A 4 LANE WITH PAVED SHOULDER CONFIGURATION (NH-144A) FROM KM 26.350 (KHAZI CHOWN) TO KM 30.697 (RAJANMATH CHOWN) OF JAMMU & KASHMIR ON EPC BASIS

UNION TERRITORY OF JAMMU & KASHMIR ON EPC BASIS

TITLE

GAD OF SINGLE CELL BOX CULVERT 3.0x3.0 m WITH CUSHION AT CH. 29+641

SCALE

1:100

DATE

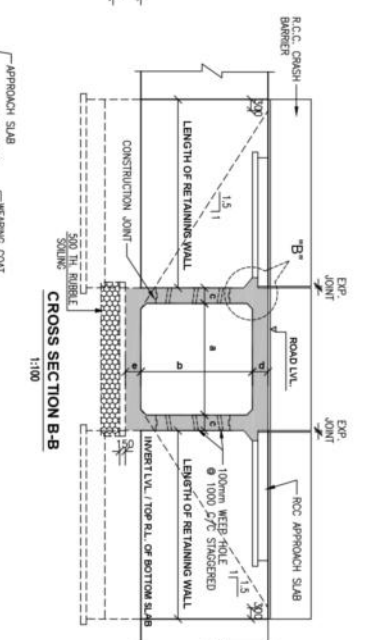
2024

DESIGNED

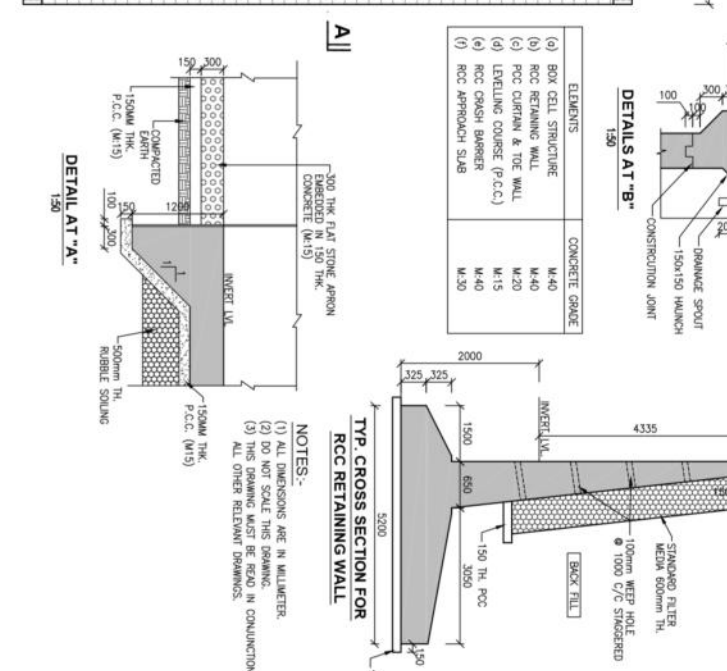
CHKD

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1:100



### RCC RETAINING WALL

	At Center	At LHS	At RHS	Foundation Lvl.	PCC Bottom	Top of Bott. Slab	Bot of Top Slab @ center	Top of Top Slab @ Center	Top of Top Slab @ LHS	Top of Top Slab @ RHS
0	366.534	366.234	366.234	361.409	361.259	361.959	365.959	366.439	366.159	366.139

## PRODUCT

**ANANDJIWALA INFRA ADVISORY**  
9, Shriyrajani Shopping center, On 132 Feet Ring Road  
Nr. Shreeganesh Cross Road, Sector-16, Ahmedabad - 380 015  
Email: anandjiwalainfraadvisory@gmail.com

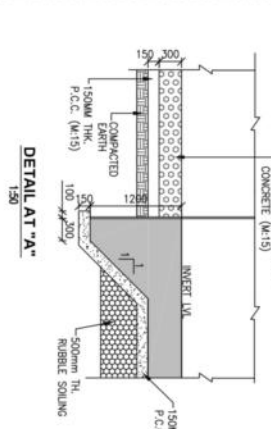
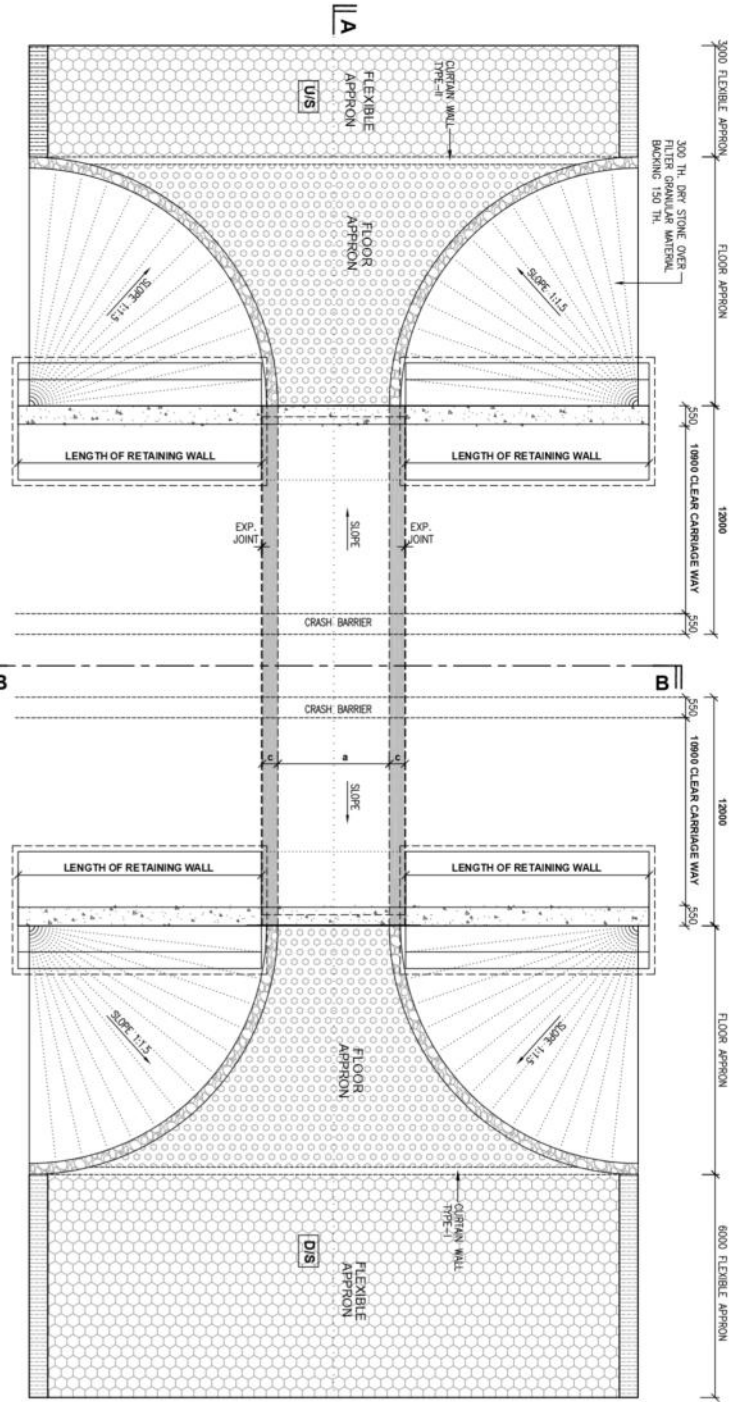
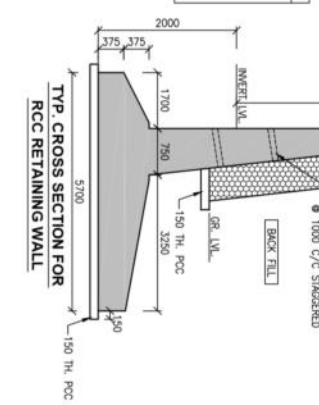
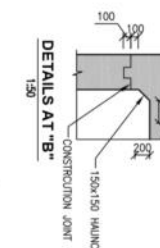
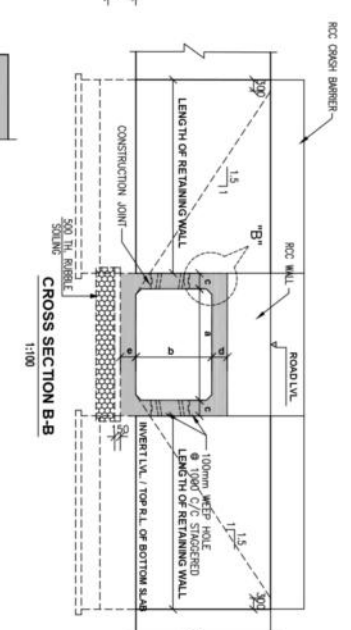
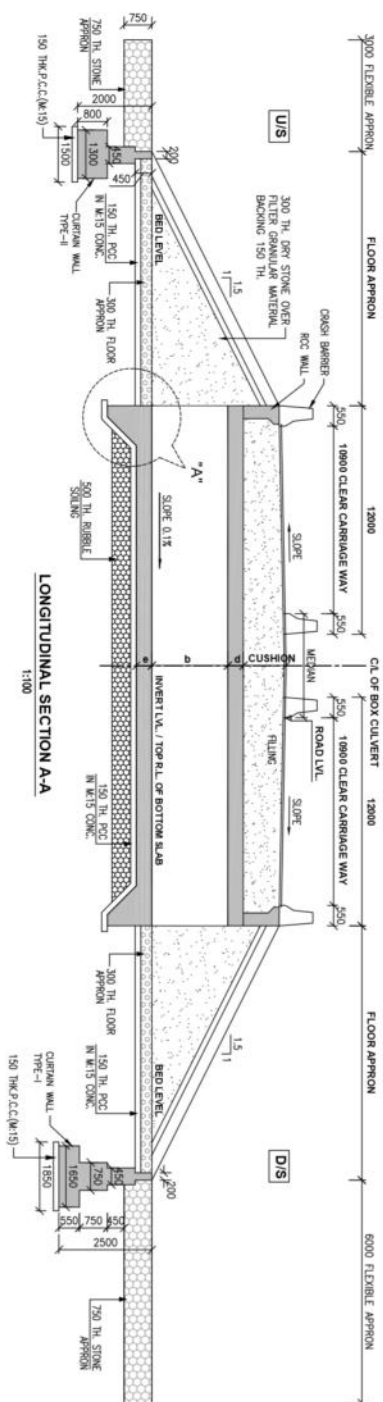
CONSULTANCY SERVICES FOR FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES FOR UPGRADEATION OF EXISTING 6 LANE HIGHWAY TO A LANE WITH PAVED SHOULDER CONFIGURATION (NH-44A) FROM KM 26.350 (KHAAT CHOWK) TO KM 30.097 (JAINUMA CHOWK) OF JAMMU - KASHMIR SECTION IN THE UNION TERRITORY OF JAMMU & KASHMIR ON EPC BASIS




GAD OF SINGLE CELL BOX CULVERT 6.0x4.0m  
WITHOUT CUSHION AT CH: 30+217

CLIENT APPROVAL:	SIGNATURE:
DATE: NO--	
DATE:	DESIGNED:
LA	SC
SJ	LK





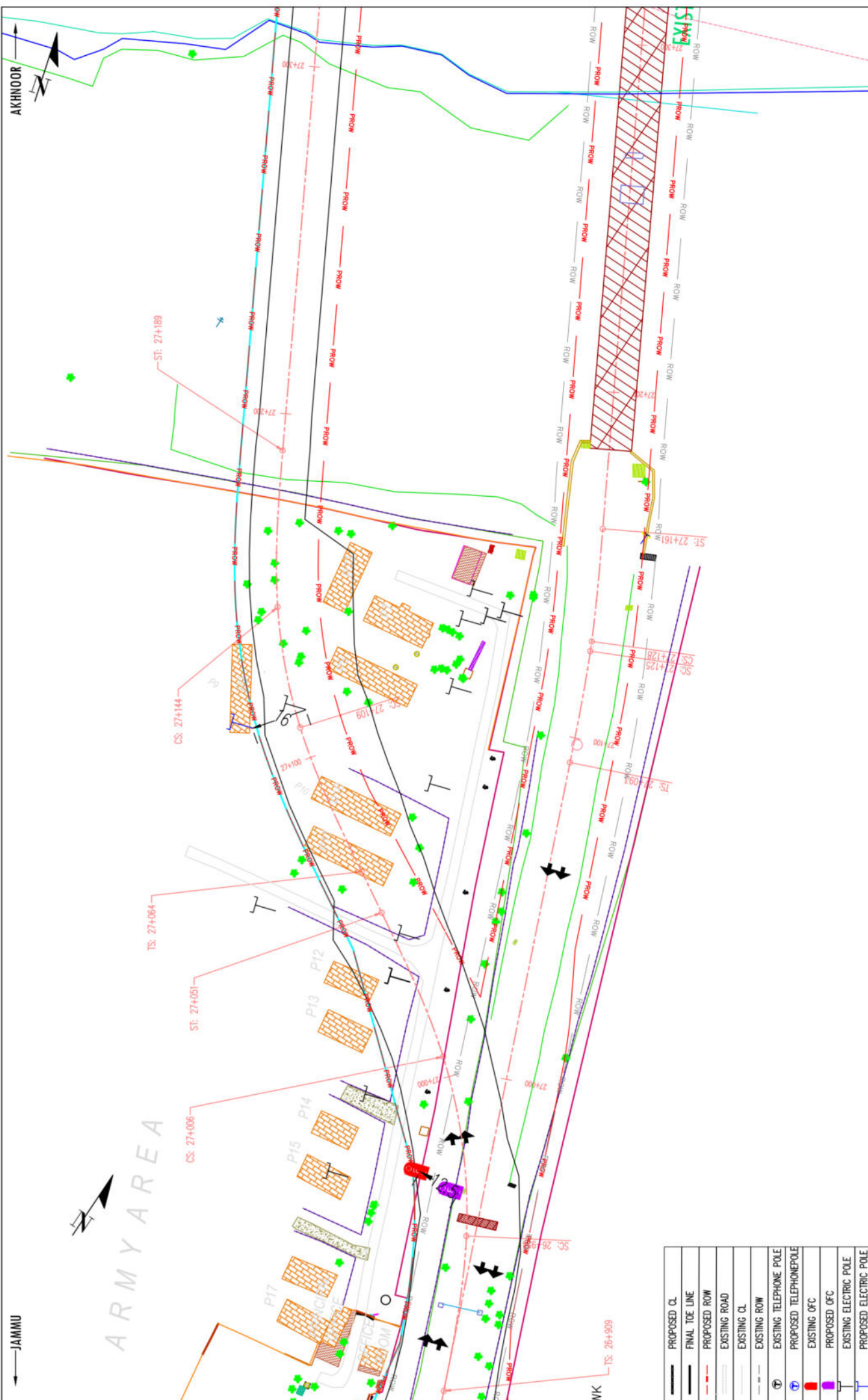
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			a	b	c	d	e												
C11	29-840	1x7.0mx4.0m	24	7.000	4.000	0.550	0.550	0.600	362.162	361.862	361.862	356.012	355.862	356.612	360.612	361.162	361.162	361.162	1.000m

DATE:		DESIGN CONSULTANT:	ANANDJEWALA INFRA ADVISORY	PROJECT:	CONSULTANCY SERVICES FOR FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES FOR UPGRADE/CONSTRUCTION OF EXISTING 2 LANE HIGHWAY TO 4 LANE WITH PAVED SHOULDER CONFIGURATION (NH-144A) FROM KM 26.350 (KHATI CHOWK) TO KM 30.097 (HAUNAMU CHOWK) OF JAMMU - AKHNOOR SECTION IN THE UNION TERRITORY OF JAMMU & KASHMIR ON EPC BASIS	 <p>SCALE: 1:10000 SHOWN</p>	<p>TOTAL GAL OF SINGLE CELL BOX CULVERT 7.0x4.0m WITH CHISHAM AT CH: 29+840</p>	<table><tr><td>CLIENT APPROVAL:</td><td>SIGNATURE:</td></tr><tr><td>DATE:</td><td></td></tr></table>	CLIENT APPROVAL:	SIGNATURE:	DATE:	
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REVISIONS:												

Annex-III A  
**Utility Shifting Plan**







REV.	DATE	REVISIONS
02	08/04/2020	A. UDATE AWP
01	11/04/2020	A. UDATE END

CLIENT	DATE	REVISIONS

**NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.**  
PTI BUILDING, 4 PARLIAMENT STREET  
SANSAD MARG AREA, NEW DELHI - 110001

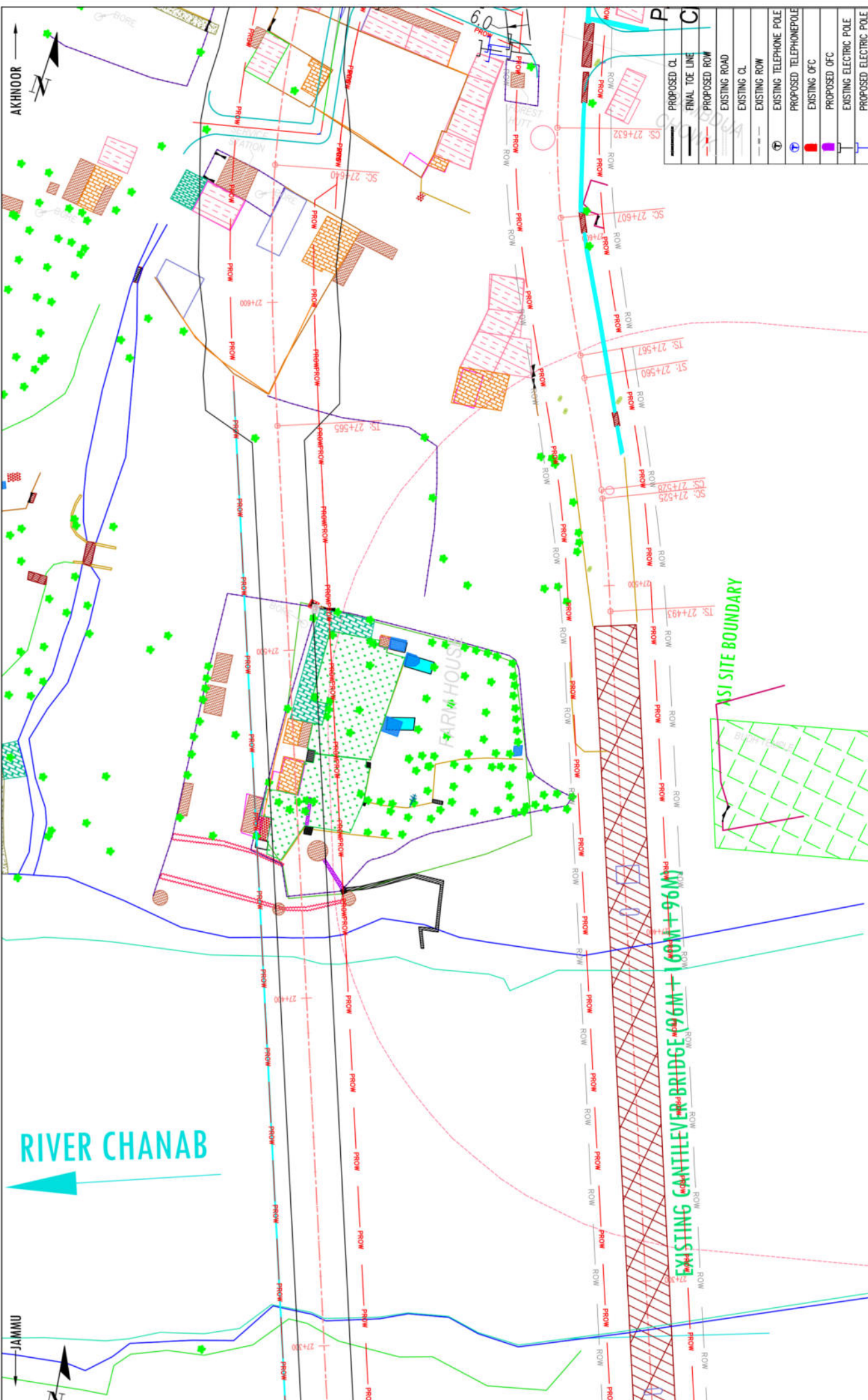
**DESIGN CONSULTANT**  
**ANANDJIWALA INFRA ADVISORY**  
8 Shriyashree Shopping Centre, 1st Floor, 1st Floor, 1st Floor  
100, Shriyashree Shopping Centre, 1st Floor, 1st Floor, 1st Floor  
Email: anandjiwala@gmail.com

**PROJECT:** CONSULTANCY SERVICES FOR FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES FOR UPGRADATION OF EXISTING 2 LANE HIGHWAY TO 4 LANE WITH PAVED SHOULDER CONFIGURATION (NH-144A) FROM KM 26.350 (KHATI CHOWK) TO KM 30.097 (HANUMAN CHOWK) OF JAMMU - AKHNOOR SECTION IN THE UNION TERRITORY OF JAMMU & KASHMIR ON EPC BASIS

**SCALE AT AS SIZE DRAWING**  
HORIZ: 1:1000

**TITLE**  
**UTILITY PLAN**  
**Km 26+900 to Km- 27+300**

CLIENT APPROVAL	SIGNATURE
DR. NO. 10-1	CS (JAMMU) TS (PPT)
DATE	DATE
LA	LA



REV

DATE

REVISIONS

02

08/09/2020

A. UPPAL

AMP

03

11/09/2020

A. UPPAL

END

CLIENT

NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.  
PTI BUILDING, 4 PARLIAMENT STREET  
SANSAD MARG AREA, NEW DELHI - 110001

DESIGN CONSULTANT

**ANANDJIWALA INFRA ADVISORY**  
# Shriyashree (Shriyashree) Centre for IETI and Engineering  
# Shriyashree (Shriyashree) Centre for IETI and Engineering  
Email: anandjiwala@anandjiwala.com

PROJECT

CONSULTANCY SERVICES FOR FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES FOR UPGRADE OF EXISTING 2 LANE HIGHWAY TO 4 LANE WITH PAVED SHOULDER CONFIGURATION (NH-144A) FROM KM 26.350 (KHATI CHOWK) TO KM 30.097 (HANUMAN CHOWK) OF JAMMU - AKHNOOR SECTION IN THE UNION TERRITORY OF JAMMU & KASHMIR ON EPC BASIS

SCALE AT AS SIZE DRAWING

HORIZ: 1:1000

VERT: 1:1000

TITLE

UTILITY PLAN

Km 27+300 to Km- 27+600

CLIENT APPROVAL

SIGNATURE

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PROPOSED CL

FINAL TOE LINE

PROPOSED ROW

EXISTING ROAD

EXISTING CL

EXISTING ROW

EXISTING TELEPHONE POLE

PROPOSED TELEPHONE POLE

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PROPOSED OFC

EXISTING ELECTRIC POLE

PROPOSED ELECTRIC POLE

AKHNOOR

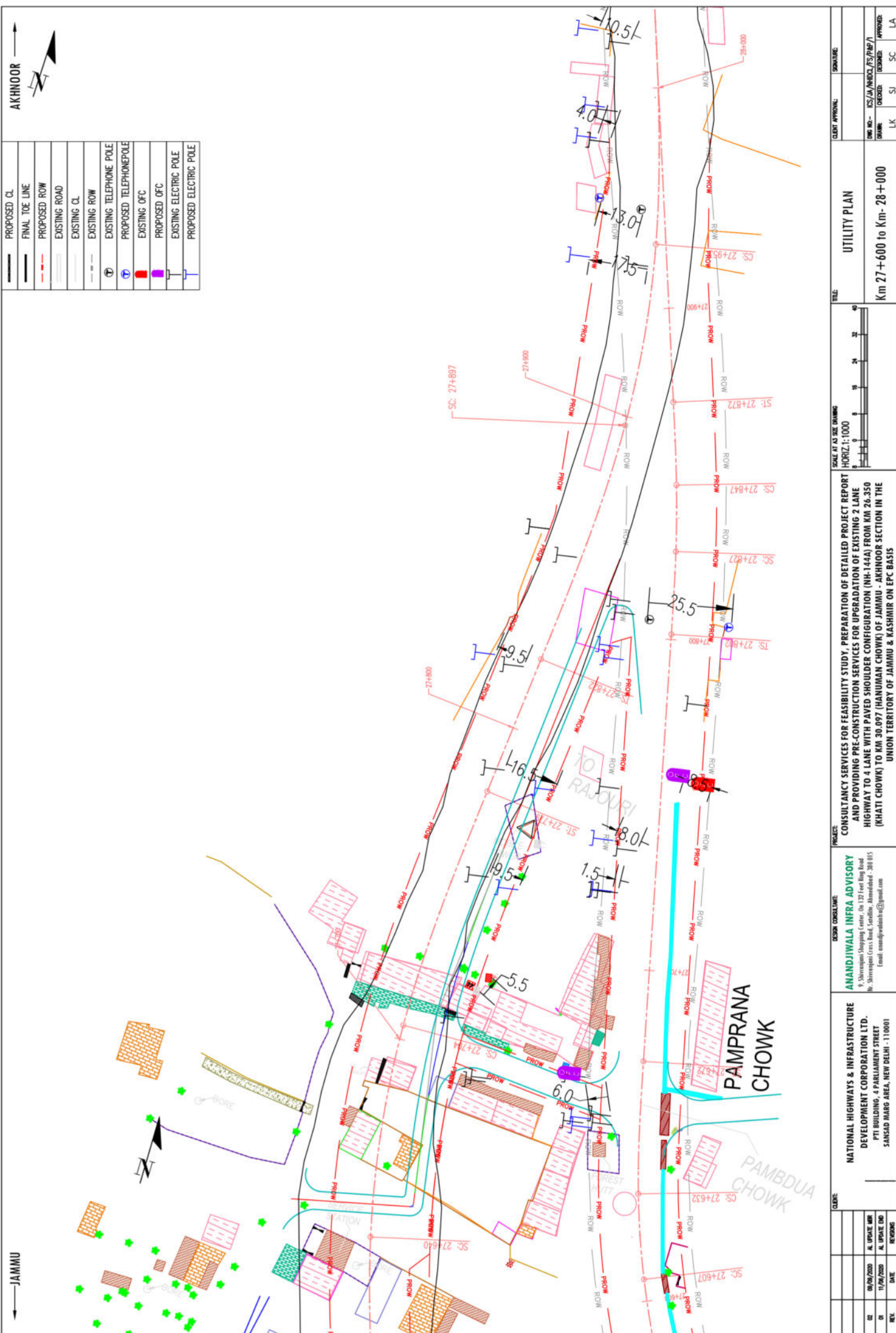
JAMMU

RIVER CHANAB

EXISTING CANTILEVER BRIDGE (96M + 160M + 96M)

ASI SITE BOUNDARY





PROPOSED CL	EXISTING CL
FINAL TOE LINE	EXISTING TOE LINE
PROPOSED ROW	EXISTING ROW
EXISTING ROAD	EXISTING ROAD
EXISTING CL	EXISTING CL
EXISTING ROW	EXISTING ROW
EXISTING TELEPHONE POLE	EXISTING TELEPHONE POLE
PROPOSED TELEPHONE POLE	PROPOSED TELEPHONE POLE
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PROPOSED OFC	PROPOSED OFC
EXISTING ELECTRIC POLE	EXISTING ELECTRIC POLE
PROPOSED ELECTRIC POLE	PROPOSED ELECTRIC POLE



JAMMU

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BY		BY		BY	
REVISIONS		REVISIONS		REVISIONS	
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AKHNOOR — 



	PROPOSED CL
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	EXISTING ELECTRIC POLE
	PROPOSED ELECTRIC POLE

**True**

SCALE AT A3 SIZE DRAWING

PROJECT	
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DESIGN CONSULTANT:	P
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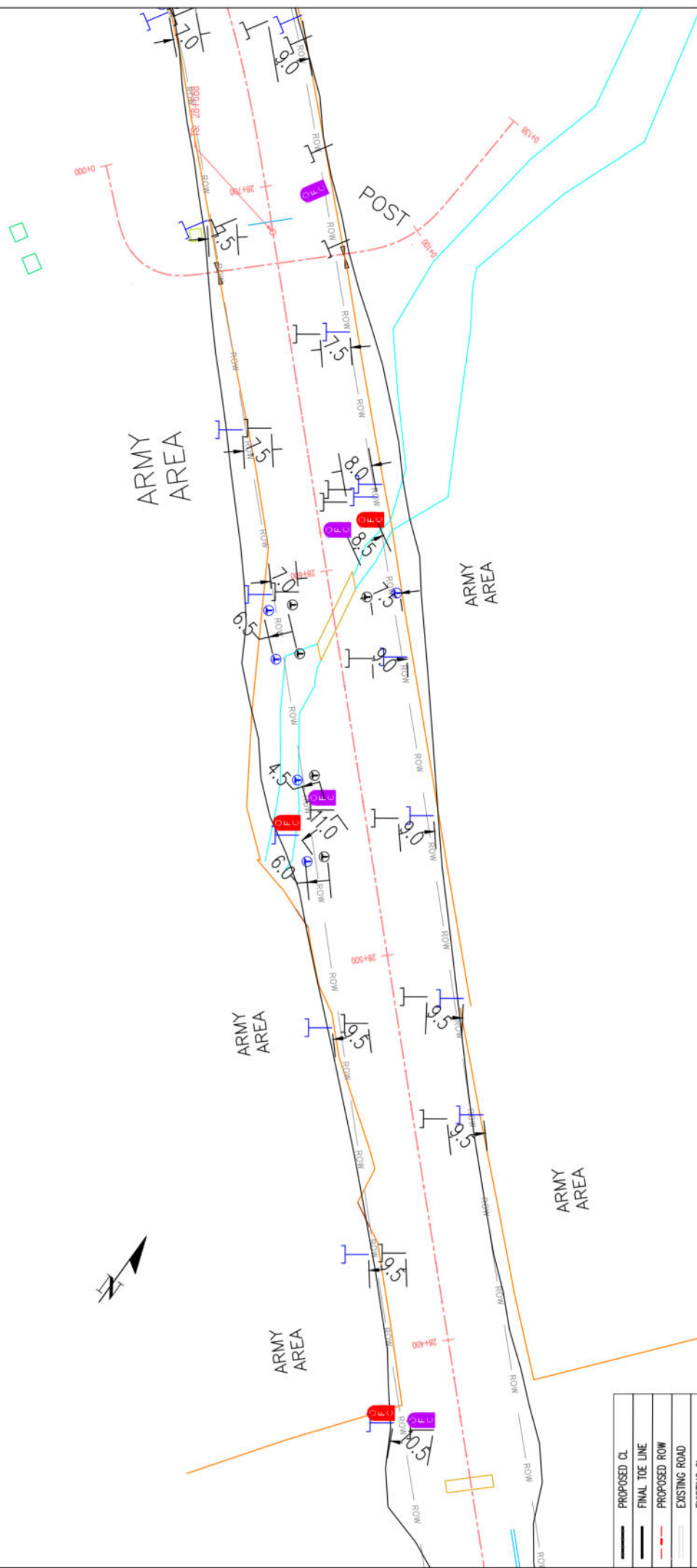
**CLIENT:**

REV.	DATE	REVISIONS
01	11/06/2020	A. UPDATE END
02	06/09/2020	A. UPDATE MR

## UTILITY PLAN

Km 28+000 to Km- 28+400

AKHNOOR — 



	PROPOSED CL
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02		09/06/2020	AL UPDATE MOR	
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REV.		DATE	REMARKS	

**NATIONAL HIGHWAYS & INFRASTRUCTURE  
DEVELOPMENT CORPORATION LTD.**  
PTI BUILDING, 4 PARLIAMENT STREET  
SANSAD MARG AREA, NEW DELHI - 110001

**DESIGN CONSULTANT**

**ANANDJIWALA INFRA ADVISORY**  
9, Shivrajnagar Shopping Center, On 137 Feet Ring Road  
38, Shivrajnagar Cross Road, Sarafelli, Ahmedabad - 380 015  
Email: anandjiwala@a2i@gmail.com

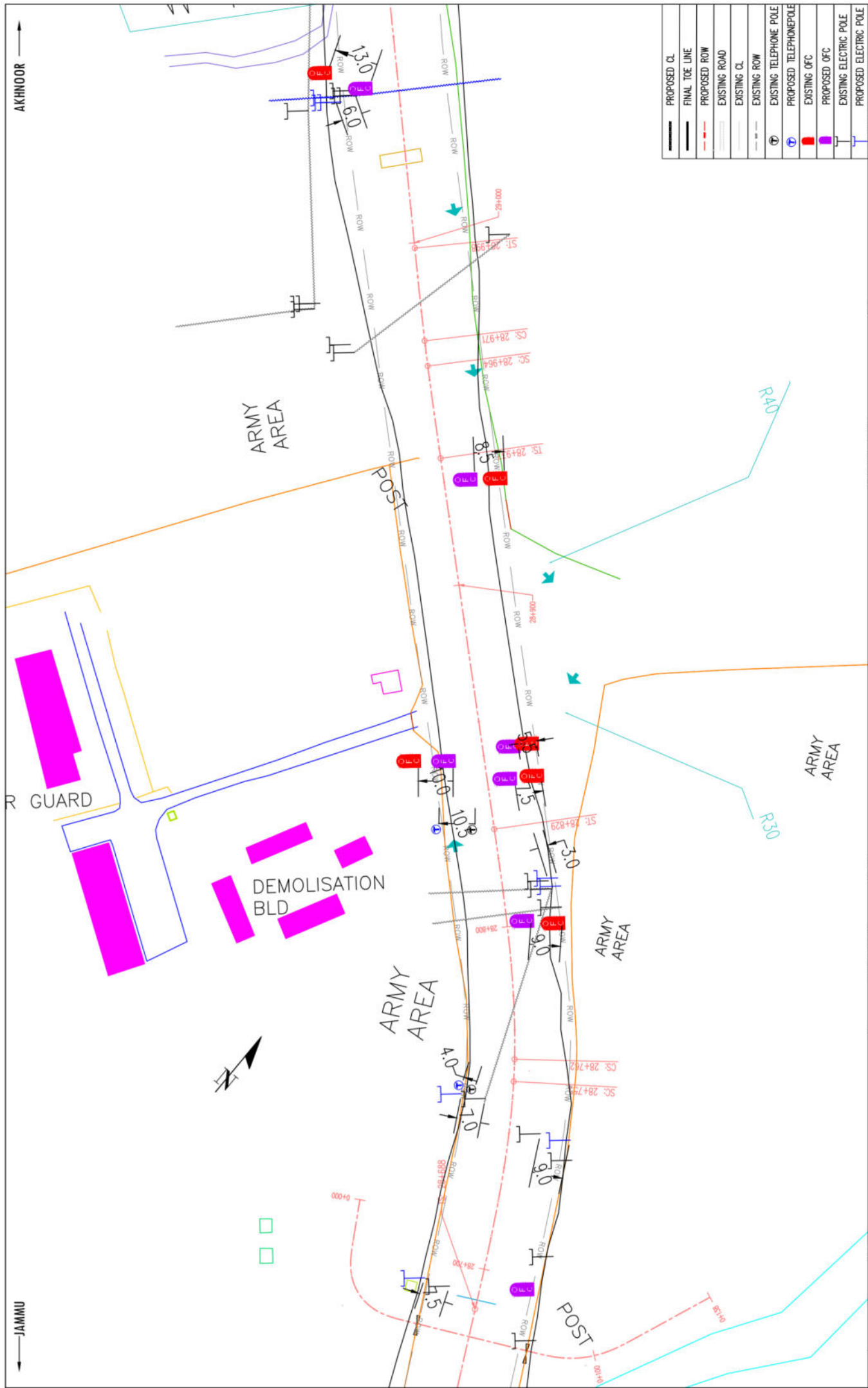
**CONSULTANCY SERVICES FOR FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES FOR UPGRADATION OF EXISTING 2 LANE HIGHWAY TO 4 LANE WITH PAYED SHOULDER CONFIGURATION (NH-144A) FROM KM 26.350 (KHATI CHOWNI) TO KM 30.097 (HUMANMAN CHOWNI) OF JAMMU & KASHMIR SECTION IN THE UNION TERRITORY OF JAMMU & KASHMIR ON EPC BASIS**

SCALE AT A3 SIZE DRAWING  
HORIZ 1:1000



## UTILITY PLAN

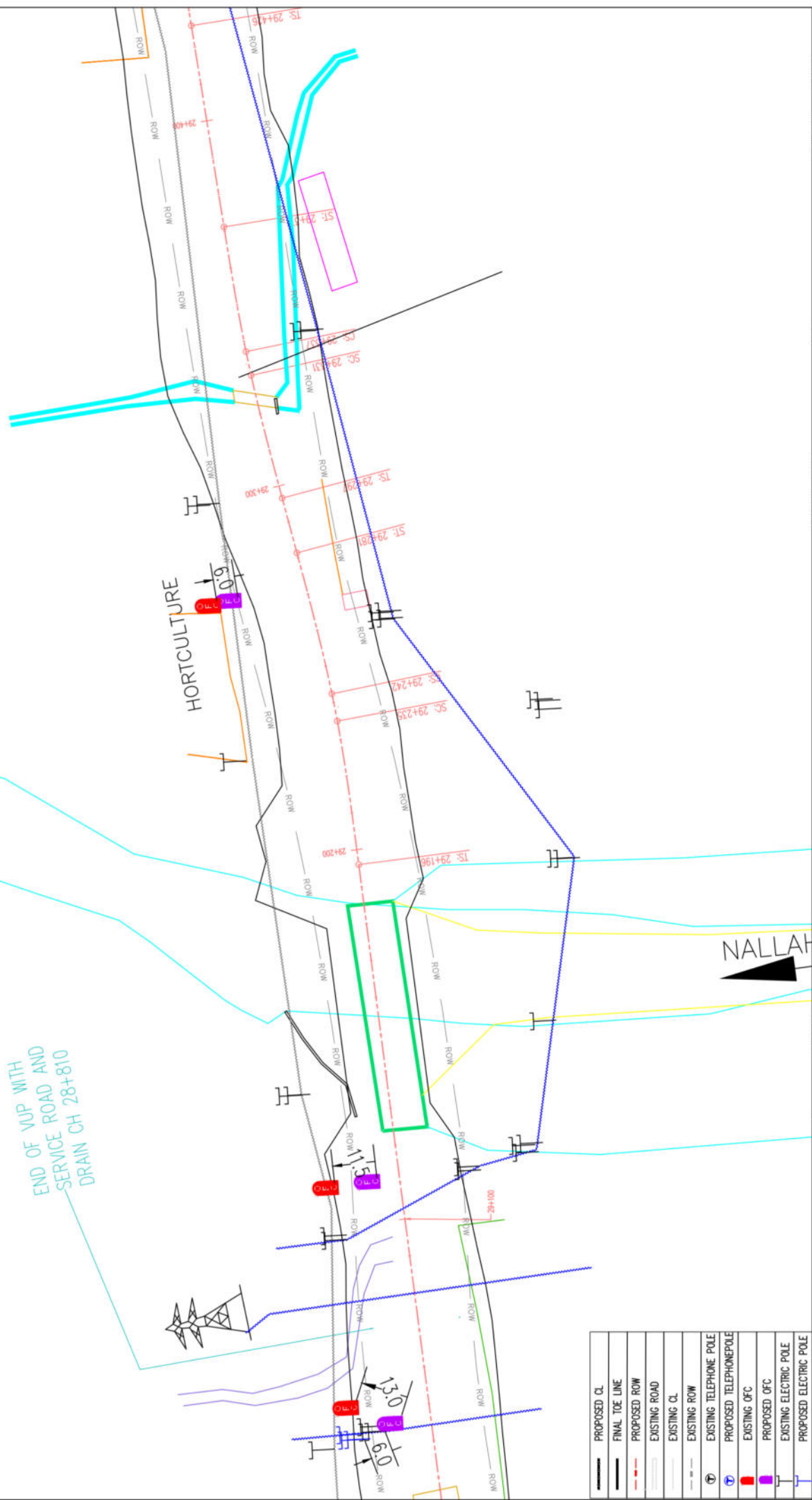
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DESIGNED: SC	APPROVED: LA



CLIENT				CLIENT APPROVAL				TITLE			
REV	DATE	BY	REVISION	DATE	BY	SC	LA	UTILITY PLAN			
02	08/09/2020	A. UPADE	AM	SCALE AT AS SIZE DRAWING				HORIZ: 1:1000			
01	11/09/2020	A. UPADE	END	PROJECT:				CONSULTANCY SERVICES FOR FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES FOR UPGRADE OF EXISTING 2 LANE HIGHWAY TO 4 LANE WITH PAVED SHOULDER CONFIGURATION (NH-144A) FROM KM 26.350 (KHATI CHOWK) TO KM 30.097 (HANUMAN CHOWK) OF JAMMU - AKHNOOR SECTION IN THE UNION TERRITORY OF JAMMU & KASHMIR ON EPC BASIS			
DESIGN CONSULTANT				DESIGN CONSULTANT				ANANDJIWALA INFRA ADVISORY			
NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.				NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.				PTI BUILDING, 4 PARLIAMENT STREET SANSAD MARG AREA, NEW DELHI - 110001			
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**AKHNOOR**



	PROPOSED CL
	FINAL TOE LINE
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	PROPOSED ELECTRIC POLE

**CLIENT:**

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**NATIONAL HIGHWAYS & INFRASTRUCTURE  
DEVELOPMENT CORPORATION LTD.**  
PTI BUILDING, 4 PARLIAMENT STREET  
SANSAD MARG AREA, NEW DELHI - 110001

**DESIGN CONSULTANT:**  
**ANANDJIWALA INFRA ADVISORY**  
9, Shivrajnagar Shopping Center, On 132 Feet Ring Road  
Nr. Shivrajnagar Cross Road, Satellite, Ahmedabad - 380 015  
Email: anandjiwalainfra@gmail.com

CONSULTANCY SERVICES FOR FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES FOR UPGRADEATION OF EXISTING 2 LANE HIGHWAY TO 4 LANE WITH PAVED SHOULDER CONFIGURATION (NH-144A) FROM KM 26.350 (KHATI CHOWKI) TO KM 30.097 (HANUABIR CHOWKI) OF JAMMU - AKHNOOR SECTION IN THE UNION TERRITORY OF JAMMU & KASHMIR ON EPC BASIS

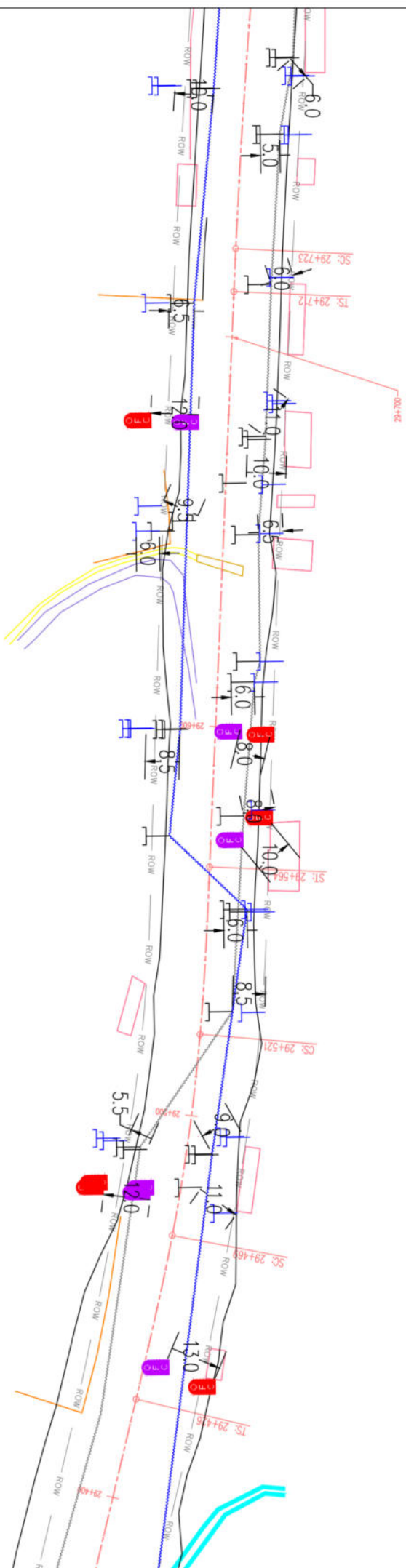
## UTILITY PLAN

FILE	UTILITY PLAN
Km 29+100 to Km- 29+400	

CLIENT APPROVAL:	SIGNATURE:
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CHECKED: DESIGNED: APPROVED:	

JAMMU

AKHNOOR



PROPOSED QL	EXISTING TELEPHONE POLE	PROPOSED TELEPHONE POLE	EXISTING OFC	PROPOSED OFC	EXISTING ELECTRIC POLE	PROPOSED ELECTRIC POLE
FINAL TOE LINE	EXISTING TELEPHONE POLE	PROPOSED TELEPHONE POLE	EXISTING OFC	PROPOSED OFC	EXISTING ELECTRIC POLE	PROPOSED ELECTRIC POLE
PROPOSED ROW	EXISTING TELEPHONE POLE	PROPOSED TELEPHONE POLE	EXISTING OFC	PROPOSED OFC	EXISTING ELECTRIC POLE	PROPOSED ELECTRIC POLE
EXISTING ROAD	EXISTING TELEPHONE POLE	PROPOSED TELEPHONE POLE	EXISTING OFC	PROPOSED OFC	EXISTING ELECTRIC POLE	PROPOSED ELECTRIC POLE
EXISTING QL	EXISTING TELEPHONE POLE	PROPOSED TELEPHONE POLE	EXISTING OFC	PROPOSED OFC	EXISTING ELECTRIC POLE	PROPOSED ELECTRIC POLE
EXISTING ROW	EXISTING TELEPHONE POLE	PROPOSED TELEPHONE POLE	EXISTING OFC	PROPOSED OFC	EXISTING ELECTRIC POLE	PROPOSED ELECTRIC POLE
EXISTING TELEPHONE POLE	EXISTING TELEPHONE POLE	PROPOSED TELEPHONE POLE	EXISTING OFC	PROPOSED OFC	EXISTING ELECTRIC POLE	PROPOSED ELECTRIC POLE
EXISTING OFC	EXISTING TELEPHONE POLE	PROPOSED TELEPHONE POLE	EXISTING OFC	PROPOSED OFC	EXISTING ELECTRIC POLE	PROPOSED ELECTRIC POLE
EXISTING ELECTRIC POLE	EXISTING TELEPHONE POLE	PROPOSED TELEPHONE POLE	EXISTING OFC	PROPOSED OFC	EXISTING ELECTRIC POLE	PROPOSED ELECTRIC POLE
PROPOSED ELECTRIC POLE	EXISTING TELEPHONE POLE	PROPOSED TELEPHONE POLE	EXISTING OFC	PROPOSED OFC	EXISTING ELECTRIC POLE	PROPOSED ELECTRIC POLE

REV	DATE	REVISIONS
02	08/04/2020	A. UPDATE MAP
01	11/04/2020	A. UPDATE END

**NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.**  
PTI BUILDING, 4 PARLIAMENT STREET  
SANSAD MARG AREA, NEW DELHI - 110001

**DESIGN CONSULTANT**  
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Email: anandjiwala@anadjiwala.com

**PROJECT:** CONSULTANCY SERVICES FOR FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES FOR UPGRADE OF EXISTING 2 LANE HIGHWAY TO 4 LANE WITH PAVED SHOULDER CONFIGURATION (NH-144A) FROM KM 26.350 (KHATI CHOWK) TO KM 30.097 (HANUMAN CHOWK) OF JAMMU - AKHNOOR SECTION IN THE UNION TERRITORY OF JAMMU & KASHMIR ON EPC BASIS

**SCALE AT AS SIZE DRAWING**  
HORIZ: 1:1000

**TITLE:** UTILITY PLAN  
Km 29+400 to Km- 29+700

CLIENT APPROVAL	SIGNATURE
DESIGNER	DESIGNED
CHECKED	CHECKED
APPROVED	APPROVED
LA	LA



02	08/09/2020	AL UPDATE MBR
01	11/06/2020	AL UPDATE END
REV.	DATE	REVISIONS

**NATIONAL HIGHWAYS & INFRASTRUCTURE  
DEVELOPMENT CORPORATION LTD.**  
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SANSAD MARG AREA, NEW DELHI - 110001

**DESIGN CONSULTANT:**  
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**PROJECT:** CONSULTANCY SERVICES FOR FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES FOR UPGRADATION OF EXISTING 2 LANE HIGHWAY TO A LANE WITH PAVED SHOULDER CONFIGURATION (NH-144A) FROM KM 26.350 (KHATI CHOWK) TO KM 30.097 (HANUMAN CHOWK) OF JAMMU - AKNROOD SECTION IN THE UNION TERRITORY OF JAMMU & KASHMIR ON EPC BASIS

SCALE AT A3 SIZE DRAWING  
HORIZ:1:1000



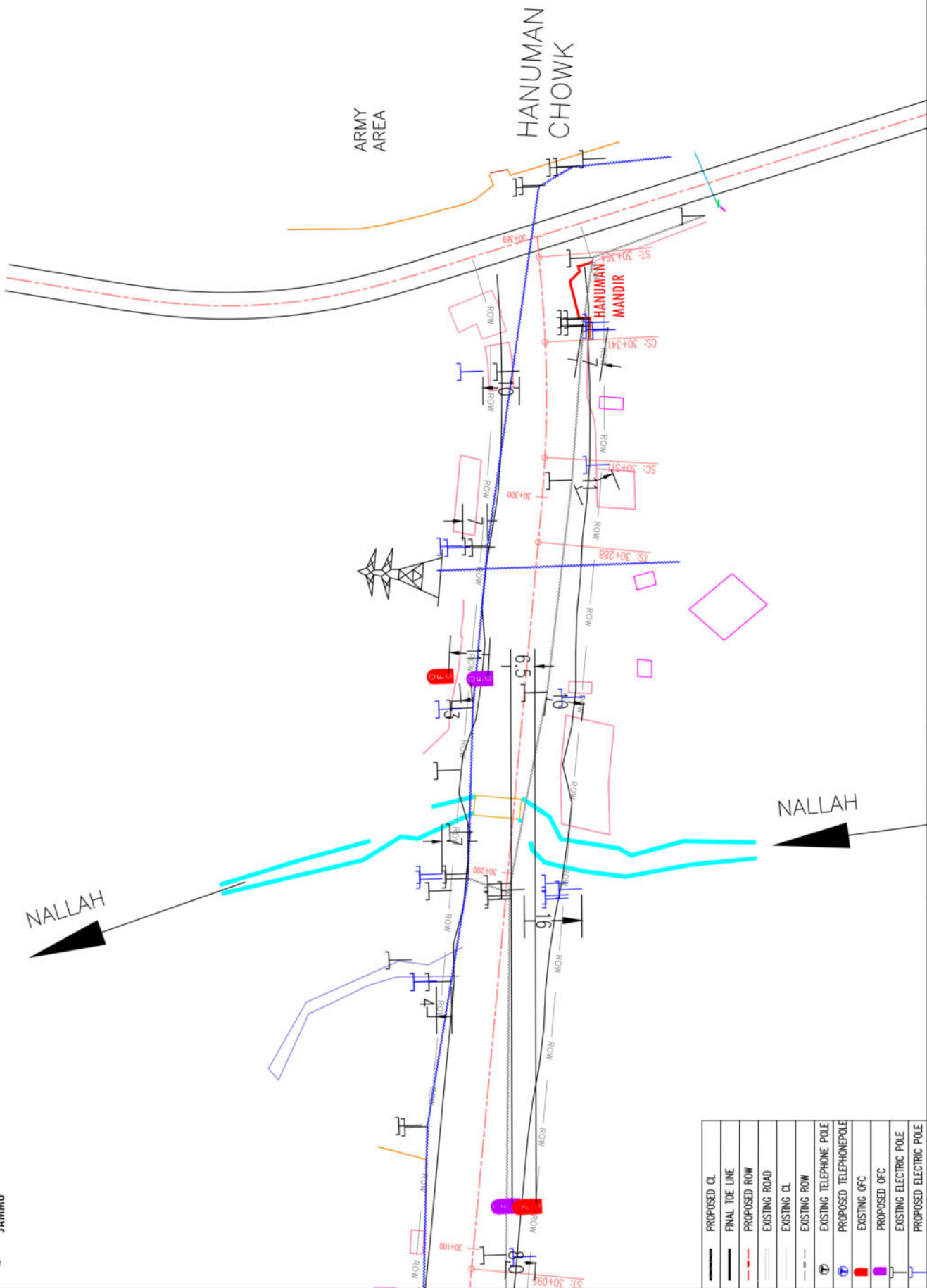
## UTILITY PLAN













FILE	UTILITY PLAN
	Km 29+700 to Km- 30+100

STUDENT APPROVAL:	SIGNATURE:
WORK NO. - ICS/JA/NHDC/TS/P/SP/1 NAME: _____ I K S I SC IA CHECKED: _____ DESIGNED: _____ APPROVED: _____	



AKHNOOR



	PROPOSED CL
	FINAL TOE LINE
	PROPOSED ROW
	EXISTING ROAD
	EXISTING CL
	EXISTING ROW
	EXISTING TELEPHONE POLE
	PROPOSED TELEPHONE POLE
	EXISTING OFC
	PROPOSED OFC
	EXISTING ELECTRIC POLE
	PROPOSED ELECTRIC POLE

**CONSULTANCY SERVICES FOR FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES FOR UPGRADATION OF EXISTING 2 LANE HIGHWAY TO 4 LANE WITH PAVED SHOULDER CONFIGURATION (NH-144A) FROM KM 26-350 (KHAITI CHOWK) TO KM 30-097 (HANUMAN CHOWK) OF JAMMU - AKHNOOR SECTION IN THE UNION TERRITORY OF JAMMU & KASHMIR ON EPC BASIS**

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[illegible]

### UTILITY PLAN

FILE	UTILITY PLAN
	Km 30+100 to Km- 30+369

CLIENT APPROVAL:	SIGNATURE:
WORK NO. - ICS/IA/NHDL/FS/PAP/1 DRAWING: _____ CHECKED: _____ DESIGNED: _____ APPROVED: _____ I K S C I A	

## **Drawings of Wayside Amenities**

