

NORTHERN RAILWAY

Headquarters Office,
Baroda House,
New Delhi.

No. SD/TP/2021

Dated. .02.2022

CAO/Const.,
Northern Railway,
Kashmere Gate, Delhi.

CAO-II/Const.,
Northern Railway,
Kashmere Gate, Delhi.

Divisional Railway Manager,
Northern Railway,
DLI, FZR, LKO, MB & UMB

CAO/C/USBRL,
Northern Railway,
Jammu Tawi.

Sub:- Standard type plan for Minimum Essential Amenities (MEA) and Accessibility plan for Divyangjan.

Indian railway is committed to make Railway accessible for Persons with Disabilities (Divyangjan) as part of "Sugamya Bharat Abhiyan" or "Accessible India Campaign" of Government of India to fulfill the mandate as outlined under Rights for persons with Disabilities (RPwD) Act, 2016. As per section 40 of the Act, rules laying down standards for accessibility for urban and rural areas are to be formulated. Sections 41 to 43 mandate Government authorities for providing accessibility facilities and services in compliance with standards.

In compliance of the provision, contained in Section 41(1) of "The Rights of persons with Disabilities Act, 2016", Railway Board has issued "Harmonized guidelines for standards of accessibility & provision of facilities for persons with Disabilities (Divyangjan) in Indian Railway".

Therefore in compliance of above saturatory requirements, to assist field offices these Standard type plans for Minimum Essential Amenities (MEA) and Accessibility plan for Divyangjan have been prepared in conformance to Harmonized guidelines issued by MoHUA, Standard for Universal Accessibility 2021, Harmonized guidelines for Divyangjan over Indian Railway issued by Railway Board and comprehensive instructions for provisions of passenger amenities issued by Railway Board in 2018.

The following plans (Type plans O-105/2022, NRHQ Plan no. SD/01/02-2022) are prepared and enclosed herewith:-

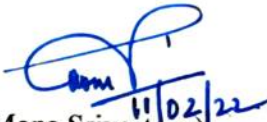
S.No.	Sheet no	Description of Drawing
1	01 of 06	Key Plan: Station Building, FOB & Circulating Area
2	02 of 06	Vehicular Circulation and Parallel Parking Details
3	03 of 06	Tactile Path Layout Plan to FOB
4	04 of 06	Tactile Path Details to Water Booth & Toilet Block
5	05 of 06	Details of Tactile at Ticketing Window, Table Top Crossings & End Ramp
6	06 of 06	Details of Handrails and Grab Bars

The purpose of these General Arrangement Plans are to provide practical guidance for universal design of all elements of external and internal built environment, thereby catering to the

accessibility needs of Divyangjan, elderly and other passengers. These plans have been framed to guide field officers in designing of spaces to ensure equitability and easy access and movement within and around station building. These Plans will also be helpful, for planning universally accessible stations and ensuring minimum essential Passenger Amenities during doubling works and major upgradation of existing stations being undertaken by various executing agencies.

If any discrepancies found in above General Arrangement Plans, kindly inform this office. You are also requested to send your comments/remarks/suggestion, if any to this office so that necessary improvement/corrections may be incorporated.

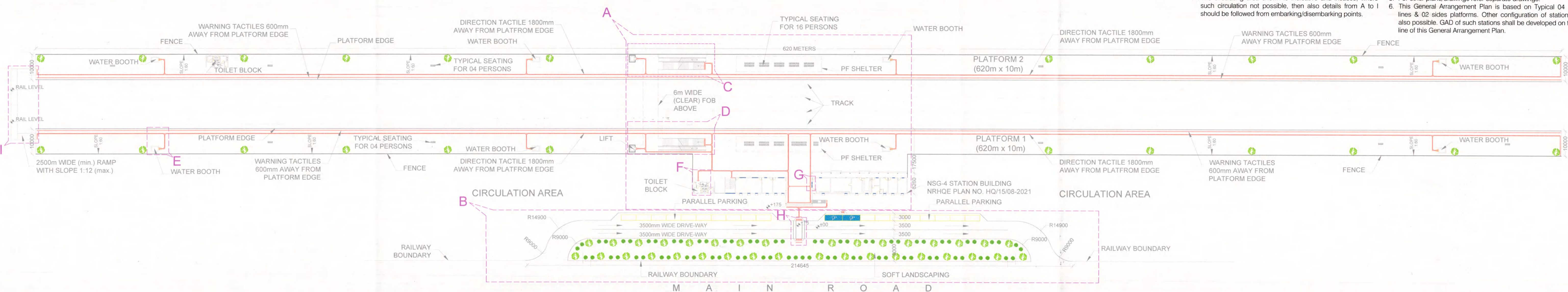
Encl.: As above


(Mona Srivastava) 11/02/22
Chief Engg./Stn. Dev.

Copy to:-

- a) Secy/GM:- for kind information of GM.
- b) Secy/PCE:- for kind information of PCE.
- c) CMD/RITES:- for kind information please.
- d) VC/RLDA:- for kind information please.
- e) CMD/RVNL:- for kind information please.
- f) CMD/IRCON:- for kind information please.
- g) Sr.DEN/C, DLI, FZR, LKO, MB & UMB:- for kind information please.

- | | |
|--|---|
| 7. FOB having width 6m or wider at all station except NSG-1 to NSG-3 category of stations should be proposed with adequate justification for the same (Refer CE/SD letter no. 46-WO/Pt.XXVI/Policy/PA dated 05/03/2021). | 1. Do not Scale this drawing. |
| 8. Powder toilet for Divypang is based on NRHQE Plan no. HQ/2-11/2021 (Type Plan no. O-104/2021). | 2. For NSG-3 & NSG-4 station building refer NRHQE Plan no. HQ/16/08/2021 & HQ/15/08/2021 respectively. |
| 9. Short & Long Term facilities to be provided (see Table 3). | 3. This is General Arrangement Plan for Minimum Essential Amenities (see Table 4) based on NSG-4 station. |
| 10. Flooring of various station premises shall be as per RB Letter no. RB/L&A/002/2013 dated 16.01.2013 (Ref. Table 2) | 4. This drawing is to be read with Harmonised Guidelines & Standards for Universal Accessibility 2021 or latest version. |
| 11. The circulating area shown is indicative and incases, where such circulation not possible, then also details from A to I should be followed from embarking/disembarking points. | 5. For all technical details shall be referred to this guideline before starting fabrication/construction. |
| | 6. For other plans/drawings refer separate drawings. |
| | 7. This General Arrangement Plan is based on Typical Q4 rail lines & Q2 sides platforms. Other configuration of station is also possible. GAD of such stations shall be developed on the line of this General Arrangement Plan. |
- WARNING TACTILES 600mm



KEY PLAN: STATION BUILDING, FOB & CIRCULATING AREA
(SCALE 1:750)

TABLE 1: PARTICULARS OF VARIOUS DETAILS

DETAIL	ON SHEET NO.	PARTICULARS
A	02 OF 06	Vehicle circulation & parallel parking details
B	02 OF 06	Tactile path from entry to various parts of station building
C	03 OF 06	Tactile path layout plan to Foot Over Bridge and Lift on platform 2.
D	03 OF 06	Tactile path layout plan to Foot Over Bridge and Lift on platform 1.
E	04 OF 06	Tactile path details to water booth
F	04 OF 06	Tactile path details to toilet block
G	05 OF 06	Tactile path details at Ticket/ May I Help You window
H	05 OF 06	Details of Table Top Crossing & Kerb Ramp
I	05 OF 06	Details of Platform End Ramp
J	06 OF 06	Details of Handrail & Grab Bar

TABLE 3: FACILITIES FOR DIVYANGJANS

(FACILITIES TO BE PROVIDED IN SHORT TERM)

S.No.	PARTICULARS
1	Provision of standard ramp with railing for barrier free entry.
2	Earmarking at least two parking lots for vehicles used by disabled persons.
3	Provision of a non-slippery walkway from parking lot to building.
4	Provision of signage of appropriate visibility.(auditory and visual signage)
5	Provision of at least one drinking water tap suitable for use by a divyang person.
6	Provision of at least one divyang toilet on the ground floor.
7	"May I help You" booth.
8	Accessible Corridor (Tactile Flooring)
9	Accessible Reception
10	Staircase with hand rail , color contrasting strips on steps of staircases.
11	Accessible Eateries and Cafeteria. (a) Eating space facilities and services shall be made accessible. (b) Shall be based on universal design features.
12	Each entry / exit gate at station to be numbered and marked prominently, where more than one gate on each side.
13	Priority seating arrangement may be made for PwDs at stations/waiting area.
14	Low height ticket counters be provided for PwDs.
15	Pathway at platform ends.

(FACILITIES TO BE PROVIDED IN LONG TERM/ PLANNED BASIS)

1	Provision of facilities for inter platform transfer. (a) Ramp & Subway or FOB with ramp/Lift are to be provided. (b) lifts with Barilite & auditory commands
2	Engraving on edges of platforms.
3	Standard Tactile guide/pathway at platforms

TABLE 4: MINIMUM ESSENTIAL AMENITIES AT NSG-3 & NSG-4 STATION

S.NO.	AMENITIES	UNIT	NSG-4	NSG-3
1	Waiting Hall	sq.m.	75	125
2	Seating Arrangement (No. of seats on each PF)	nos.	100	125
3	Drinking Water (No. of taps per PF)	nos.	20 (One tap for Divyangs on alternate water booth at each platform) Adequate water taps for passengers of General Seating Coach i.e., at end PFs	
4	Latrines	nos.	for male = 4 for female = 2	for male = 7 for female = 3
5	Urinals	nos.	for male = 4 for female = 2	for male = 7 for female = 3
6	Platforms	-	High Level	
7	Platform Shelter (on each platform)	sq.m.	200	400
8	Lighting	lux	As per Annexure II of Board's letter no. 2004/Elec(G)/109/1 dated 18.5.2007	
9	Fans	nos.	For covered platform having width of 6-9m, fans should be provided in one row. For covered platforms with more than 9m width, fans should be provided in two rows.	
10	Foot Over Bridge	nos.	1	1 with cover
11	Time Table Display	nos.	As per extant instructions	
12	Clock	nos.	To be decided by Zonal Railways	
13	Water Cooler	nos.	02 on each platform	
14	Public Address System/ Computer based announcement	nos.	As per extant instructions	
15	Parking cum circulatory area, with lights	-	As per extant instructions	
16	Electronic Train indicator board	nos.	Not applicable	As per extant instructions
17	Signage (standardized)	nos.	As per extant instructions	
18	Dustbins	nos.	Standard dustbins should be provided at regular spacing of 50m on each platform.	

Area	Flooring Type	Material	Color	Pattern	Notes
Living Room	Hardwood	Oak	Light	Plank	Polished
Kitchen	Tile	Ceramic	White	Square	Grout: Grey
Bathroom	Tile	Ceramic	White	Square	Grout: Grey
Bedroom	Carpet	Wool	Blue	Plaid	Low pile
Hallway	Hardwood	Oak	Light	Plank	Polished
Entryway	Tile	Ceramic	White	Square	Grout: Grey
Staircase	Hardwood	Oak	Light	Plank	Polished
Basement	Concrete	Polished	Grey	Smooth	Sealed
Attic	Carpet	Wool	Blue	Plaid	Low pile
Porch	Decking	Composite	Light	Plank	Sealed
Garage	Concrete	Polished	Grey	Smooth	Sealed

S.No.	PLACE	TYPE OF FLOORING
1	Platform (Covered)	1. Polished Granite Flooring. 2. Polished Kota Stone 3. Fiber reinforced vacuum dewatered concrete flooring
2	Platform (Un-covered)	1. Polished Kota Stone 2. Fiber reinforced vacuum dewatered concrete flooring
3	Circulating Area	1. Fibre Reinforced Vacuum Dewatered Concrete Flooring
4	Parking Area	1. Fibre Reinforced Vacuum Dewatered Concrete Flooring 2. Interlocking Paver Blocks
5	Staircase	1. Flamed Granite Flooring 2. Heavy duty (high strength & high abrasion resistance) Chequered Tiles
6	FOB - Pathway	1. Flamed Granite Flooring 2. Heavy duty (high strength & high abrasion resistance) Chequered Tiles

MONA SRIVASTAVA
(CE/STN. DEV.)

K.K. SHARMA
(DY.CE/STN. DEV.)

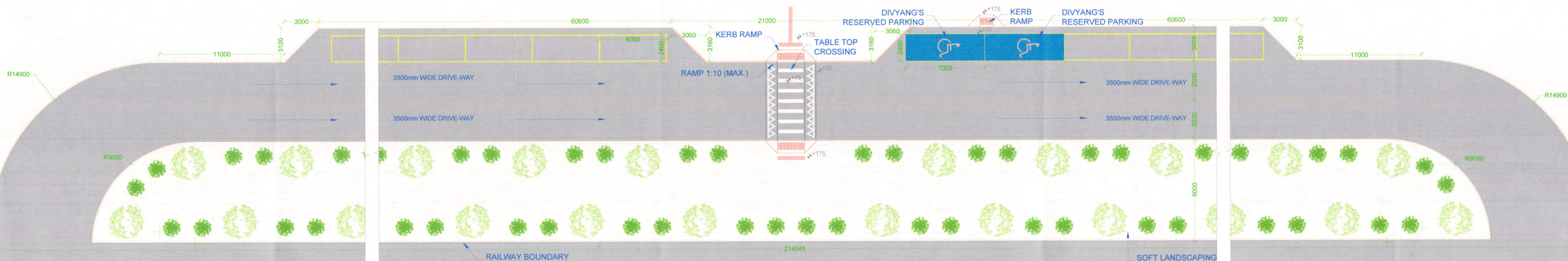
MOHD. SHARIF
(PREPARED BY: SSE/ARCH)

NORTHERN RAILWAY

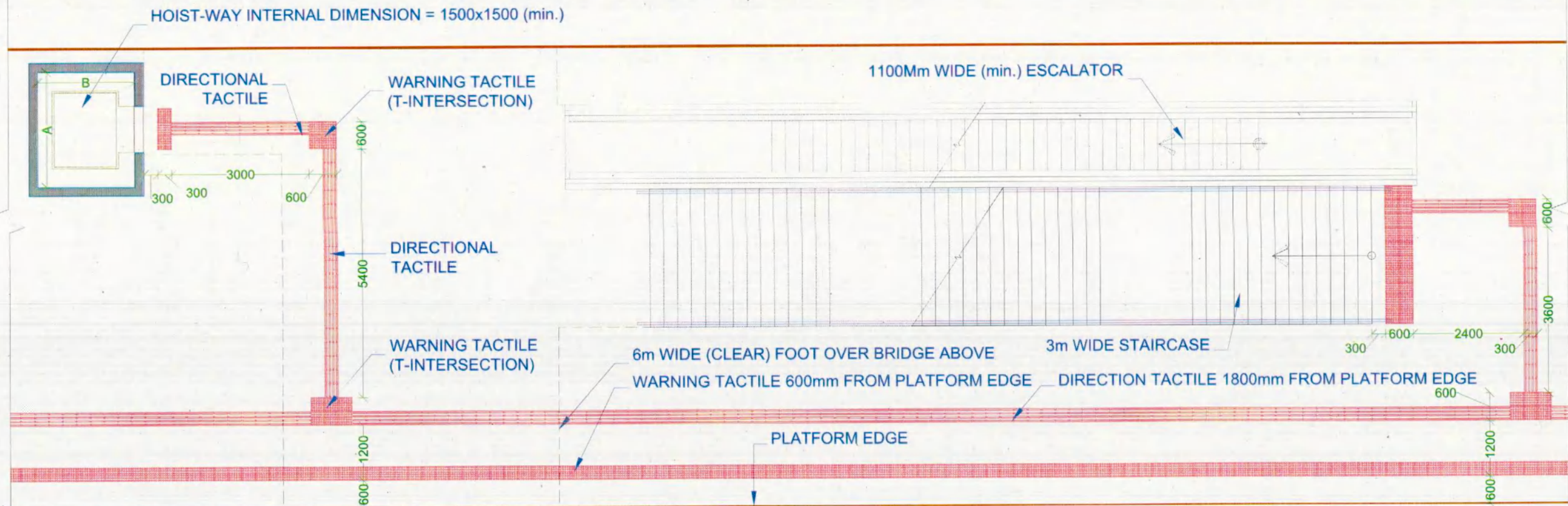
GENERAL ARRANGEMENT PLAN

Minimum Essential Passenger Amenities on NSG-3 & NSG-4 Station

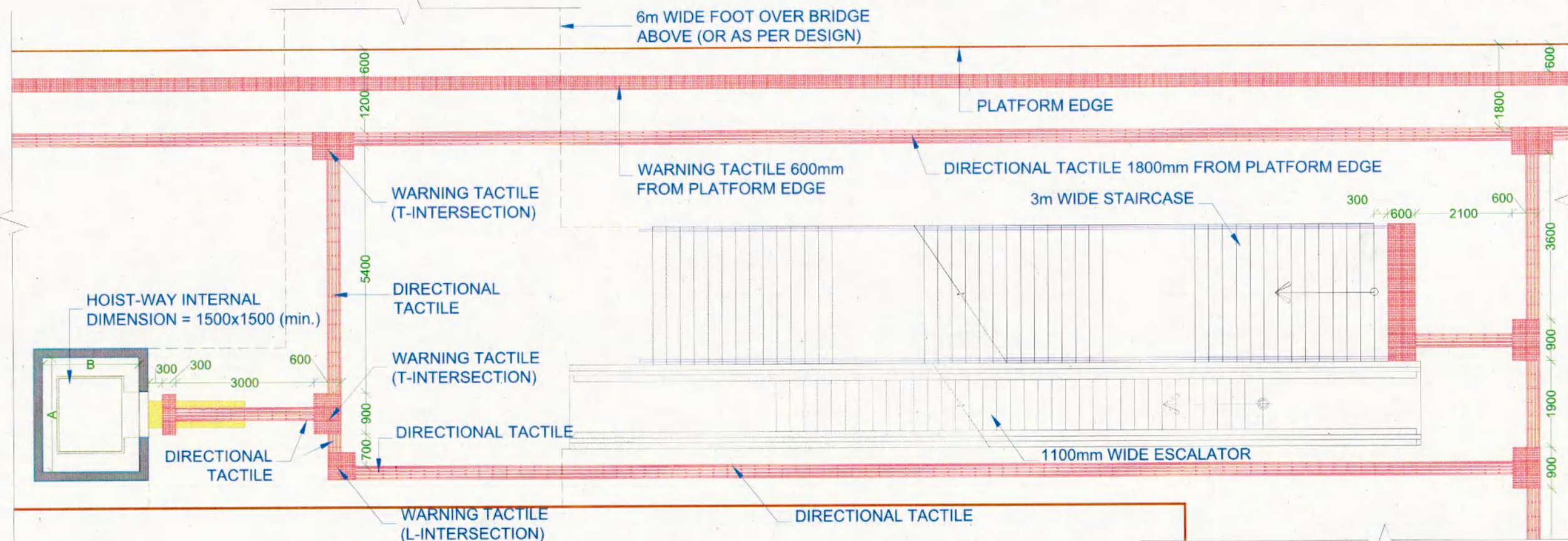
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SCALE : 1:750, 1:200@A1	SHEET NO.: 01 OF 06
N.R.H.Q.E. PLAN NO. : SD/01/02-2022	



DETAIL B
(SCALE 1:200)

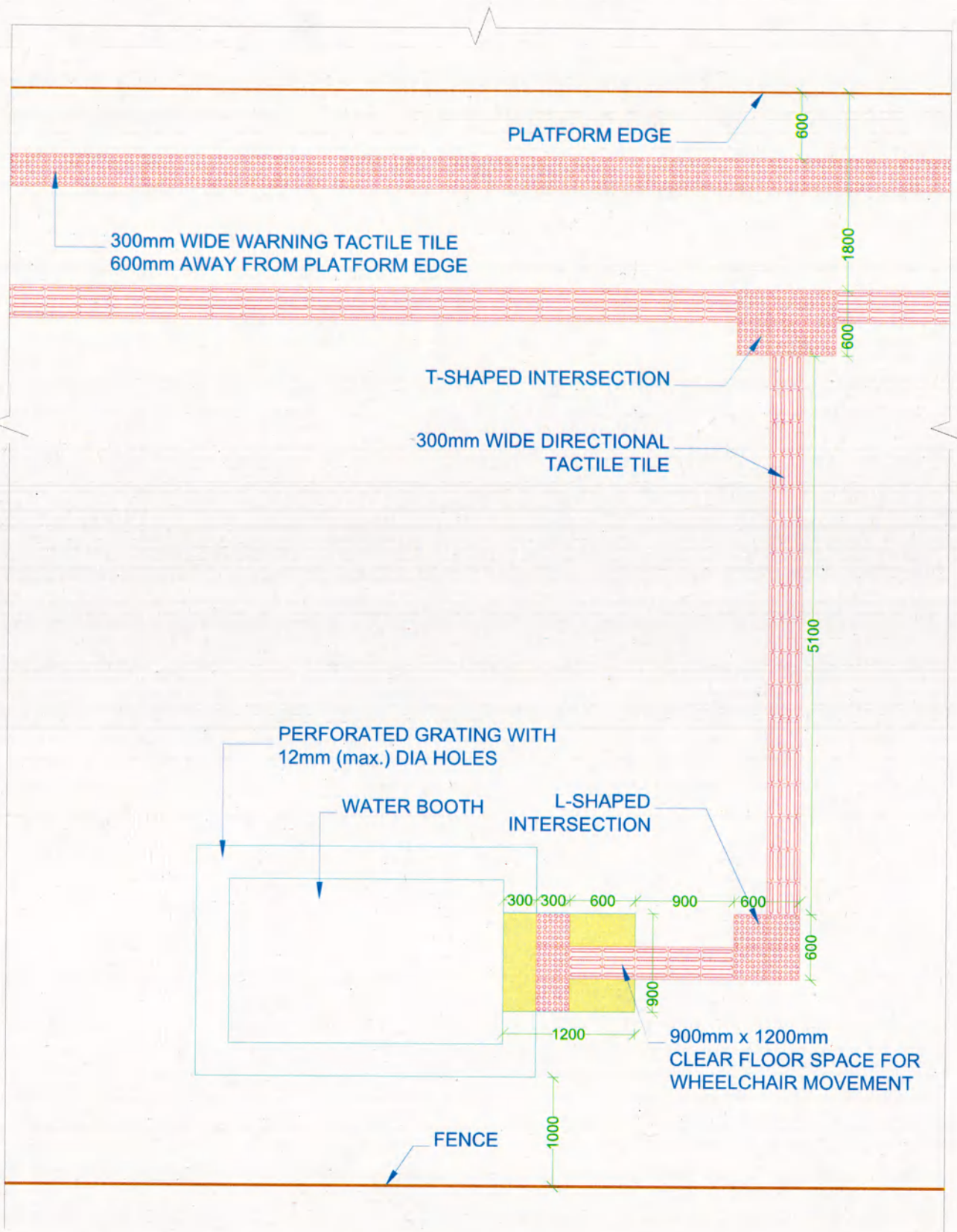


DETAIL-C

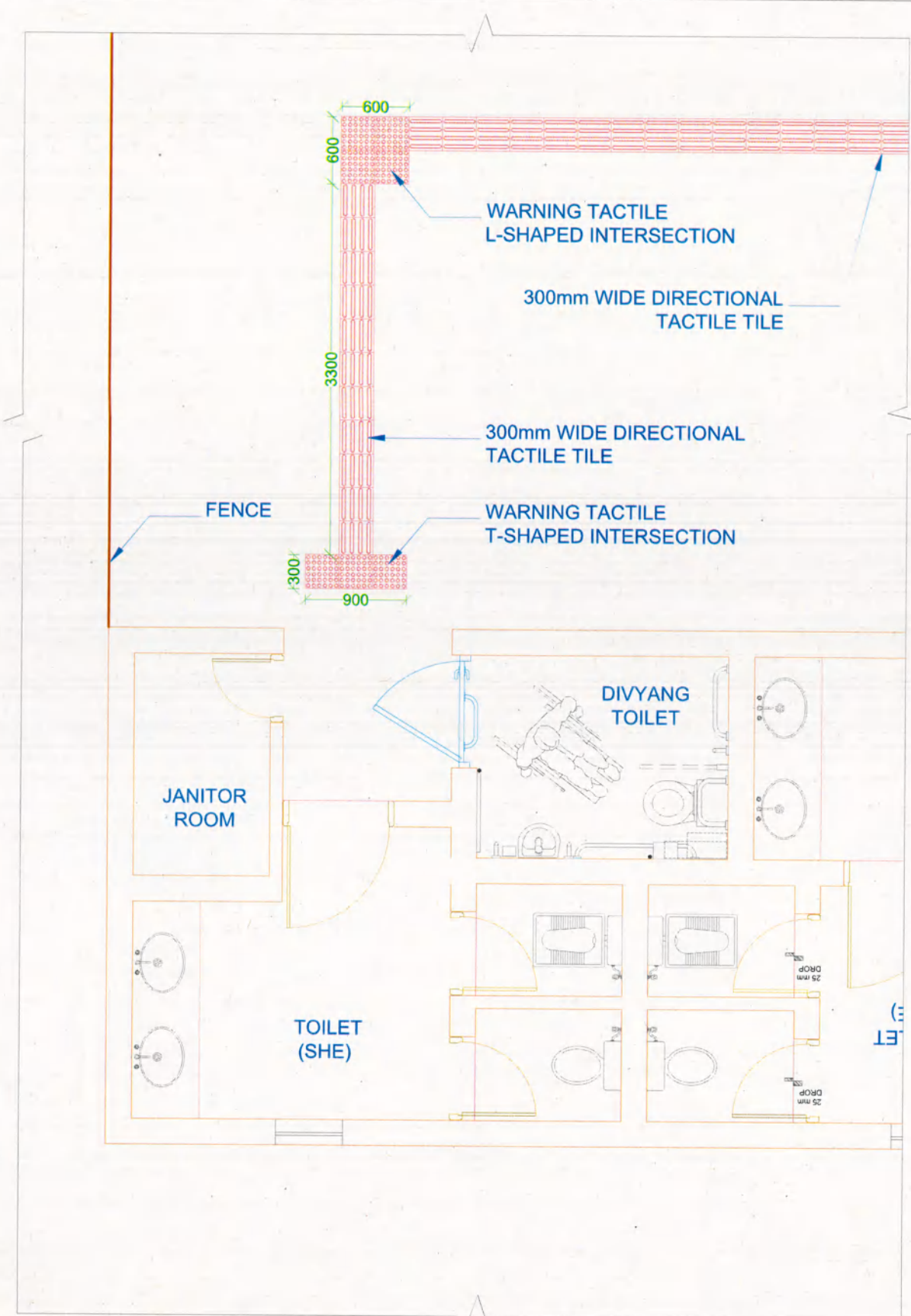


DETAIL-D

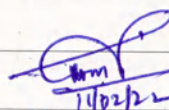
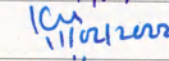
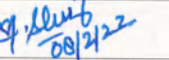
MONA SRIVASTAVA (CE/STN. DEV.)	<i>[Signature]</i> 11/02/22
K.K. SHARMA (DY.CE/STN. DEV.)	<i>[Signature]</i> 11/02/22
MOHD. SHARIF (PREPARED BY: SSE/ARCH.)	<i>[Signature]</i> 08/02/22
NORTHERN RAILWAY	
TACTILE LAYOUT PLAN	
To FOB & Lift on PF-1 & PF-2	
CASE NO. SD/TP/2021	CANCEL PLAN NO. : NIL
SCALE : 1:100@A3	SHEET NO. : 03 OF 06
N.R.H.Q.E. PLAN NO. :	SD/01/02-2022



DETAIL-E
 (SCALE 1:50)

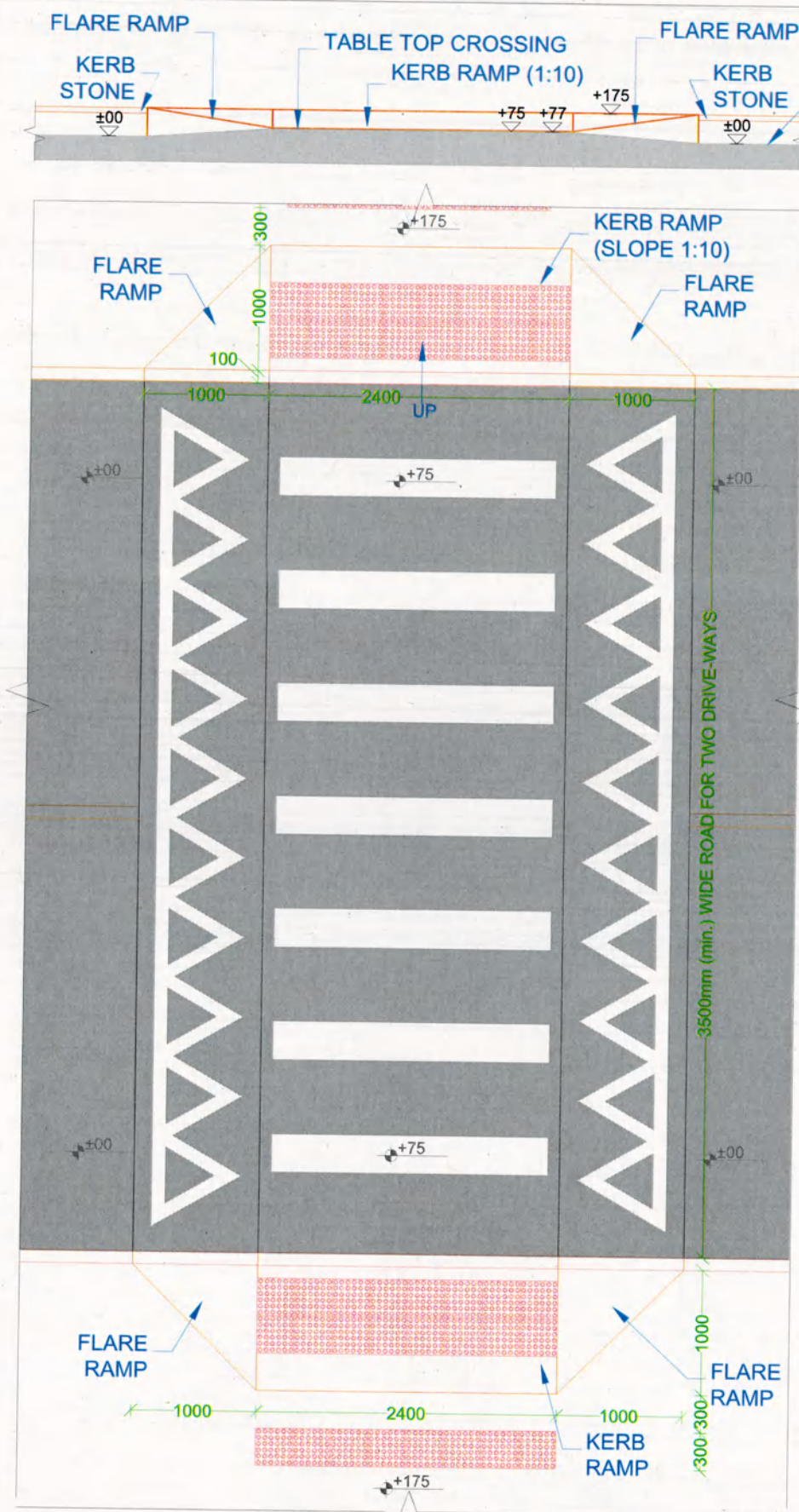


DETAIL-F
 (SCALE 1:50)

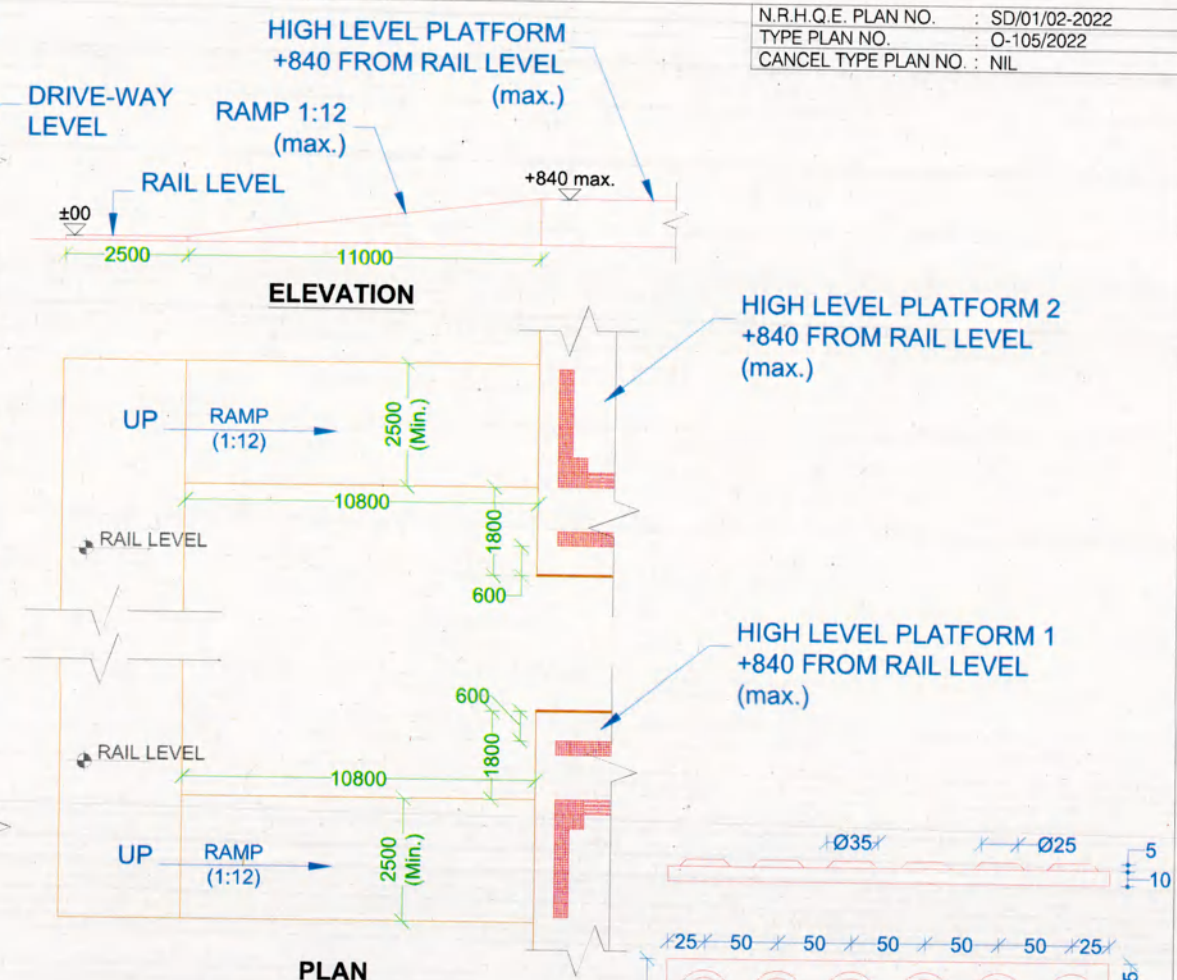
MONA SRIVASTAVA (CE/STN. DEV.)	
K.K. SHARMA (DY.CE/STN. DEV.)	
MOHD. SHARIF (PREPARED BY: SSE/ARCH.)	

NORTHERN RAILWAY	
TACTILE LAYOUT PLAN	
At Water Booth, Toilet Block & Staircase	
CASE NO. SD/TP/2021	CANCEL PLAN NO. : NIL
SCALE : 1:2550@A3	SHEET NO. : 04 OF 06
N.R.H.Q.E. PLAN NO. : SD/01/02-2022	

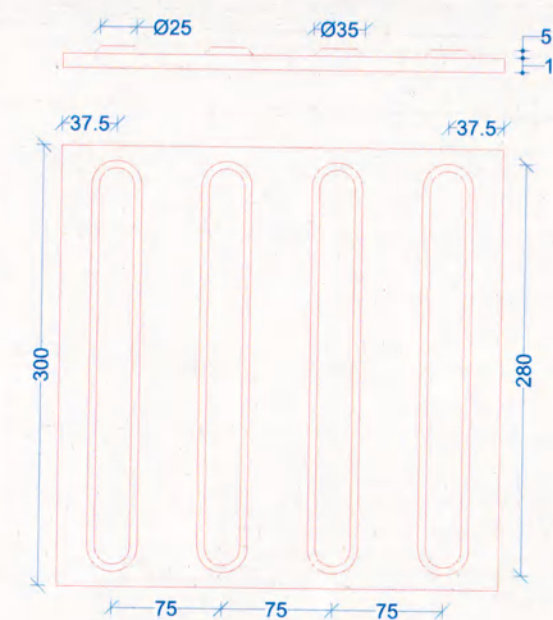
DETAIL-G
(SCALE 1:25)



DETAIL-H
(SCALE 1:50)

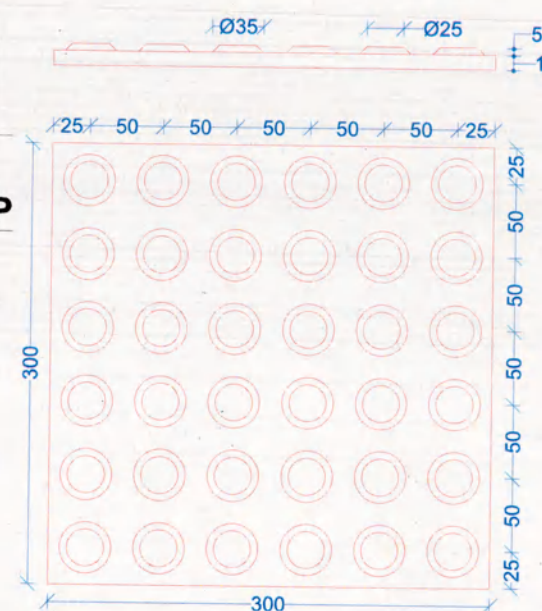


DETAIL-I: DETAILS OF END RAMP
(SCALE 1:150)



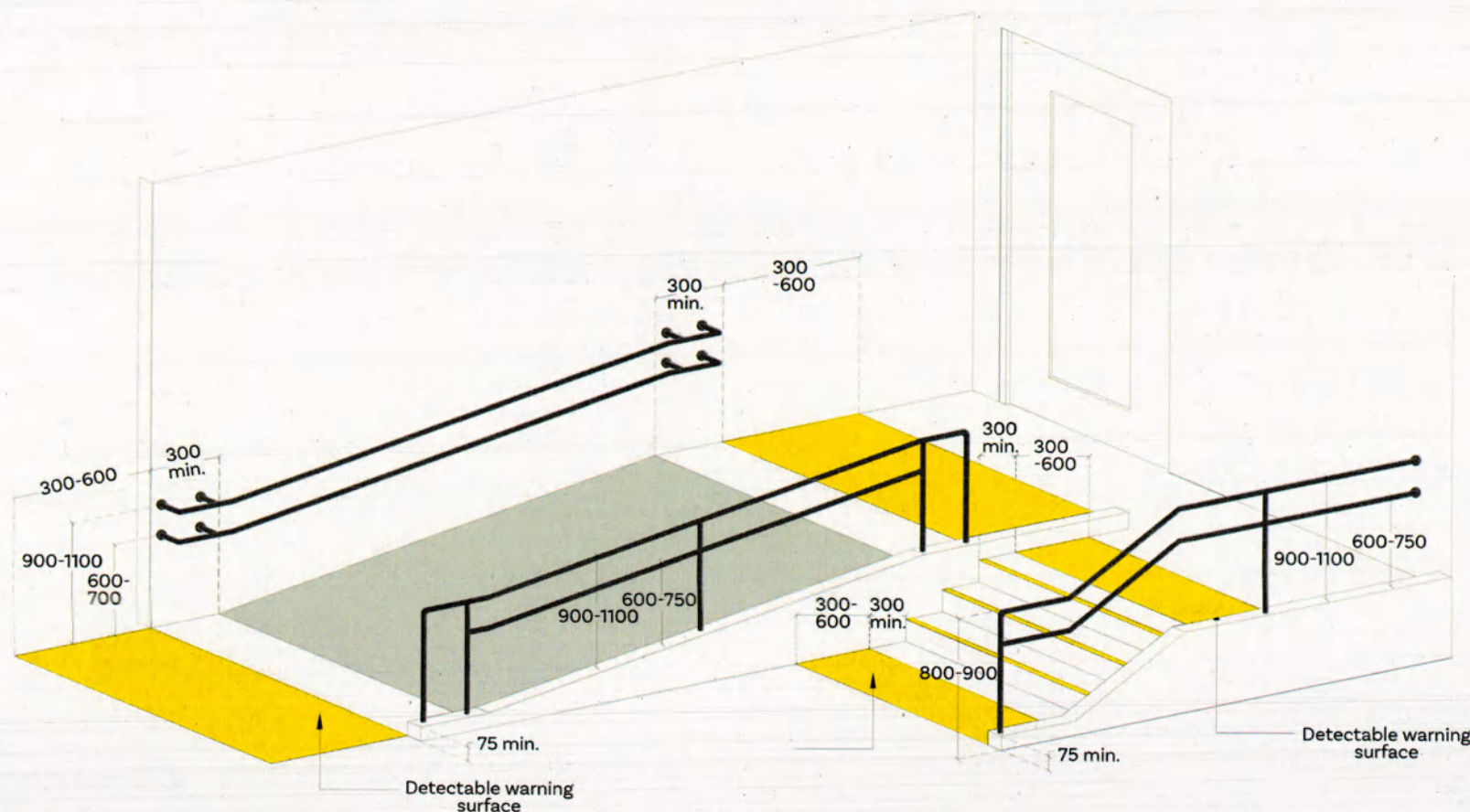
DIRECTIONAL TACTILE

(SCALE 1:5)

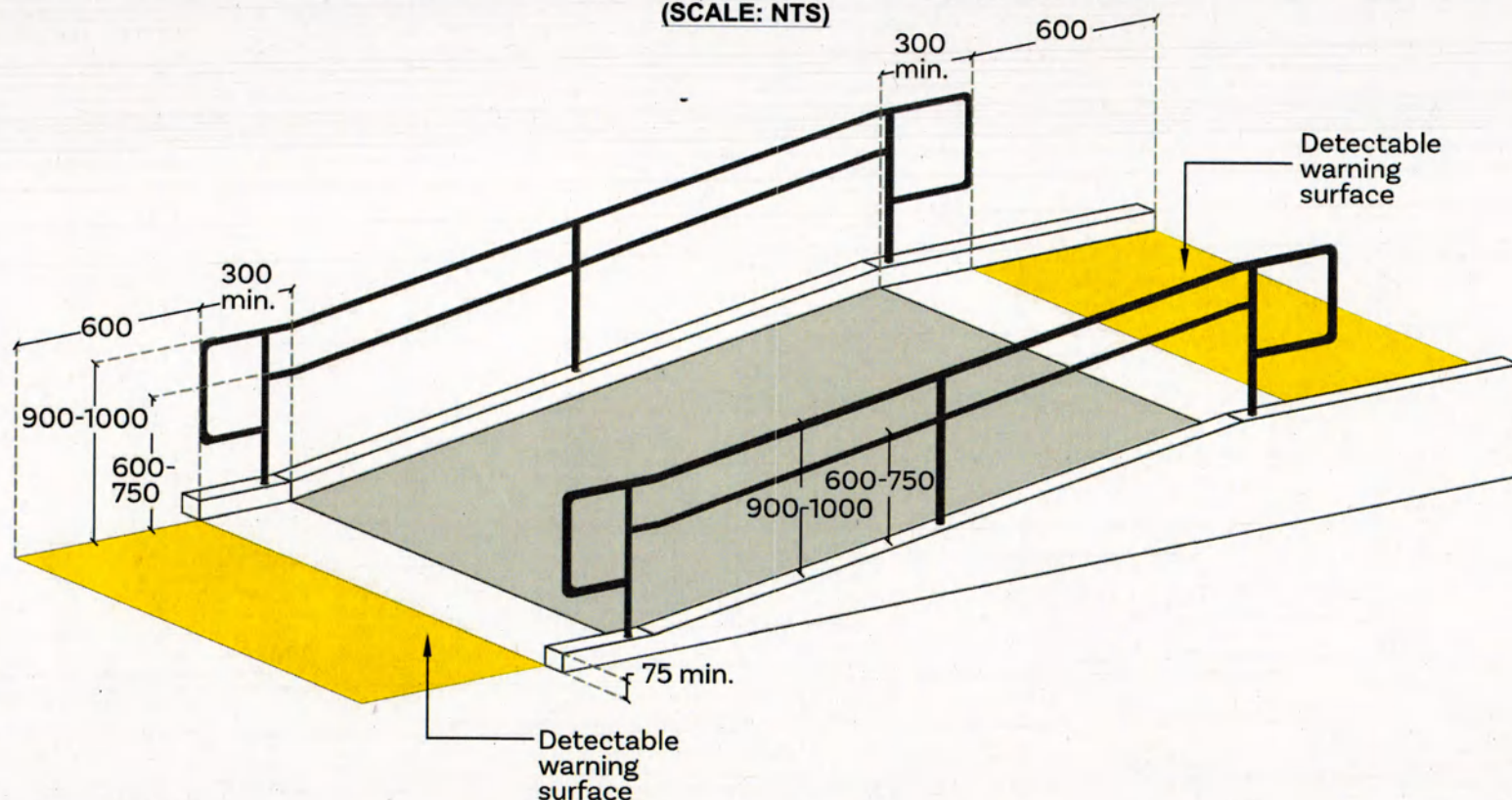


WARNING TACTILE
(SCALE 1:5)

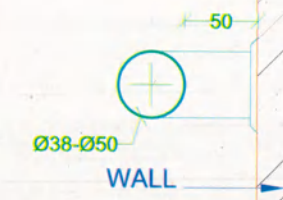
MONA SRIVASTAVA (CE/STN. DEV.)	<i>[Signature]</i> 11/02/22
K.K. SHARMA (DY.CE/STN. DEV.)	<i>[Signature]</i> 11/02/22
MOHD. SHARIF (PREPARED BY: SSE/ARCH.)	<i>[Signature]</i> 08/2/22
NORTHERN RAILWAY DETAILS OF TACTILE AT TICKET WINDOW & TABLE TOP CROSSING	
CASE NO. : SD/TP/2022	CANCEL PLAN NO. : NIL
SCALE : 1.varies@A3	SHEET NO. : 05 Of 06
N.R.H.Q.E. PLAN NO. :	SD/01/02-2022



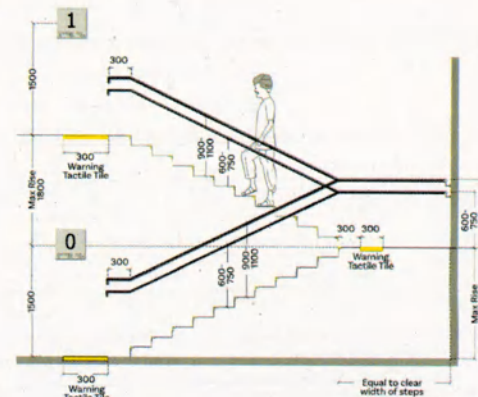
DETAIL J : HANDRAIL RETURNS TO WALL/FLOOR
(SCALE: NTS)



DETAIL J : HANDRAIL RETURNS TO POST
(SCALE: NTS)



GRAB BAR DETAIL
(SCALE 1:5)



STAIRCASE DETAILS
(SCALE: NTS)

TABLE 5: RAILING HANDRAIL/GRAB BARS DETAILS

S.NO.	PARTICULARS
1	Handrails may be provided with Braille/ Tactile markings at the beginning & the end.
2	Handrails/Grab bars should be easy to grip, securely attached & slip resistant with rounded ends.
3	Handrails/Grab Bars should be installed at a height of 760mm to 900mm.
4	Handrails/ Grab bars extend horizontally 300mm at the top & bottom of every staircase & ramp.
5	Ending of the handrails should be grouted in the ground or turn downward.
6	Space between the Handrails/Grab bars & the wall should not be less than 50mm.
7	Handrails should be painted in contrast colours, to be easily definable.
8	Handrails/Grab bars have a circular section of diameter of 38-50mm.
9	Grab bar preferably have knurled surfaces, free of any sharp or abrasive elements.
10	Handrails/Grab bars should be able to bear a weight of 250 kg.

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NORTHERN RAILWAY

DETAILS OF HANDRAIL & GRAB BAR

CASE NO. SD/TP/2022

SCALE : 1-varies@A3

N.R.H.Q.E. PLAN NO. : SD/01/02-2022

CANCEL PLAN NO. : NIL

SHEET NO. : 06 OF 06