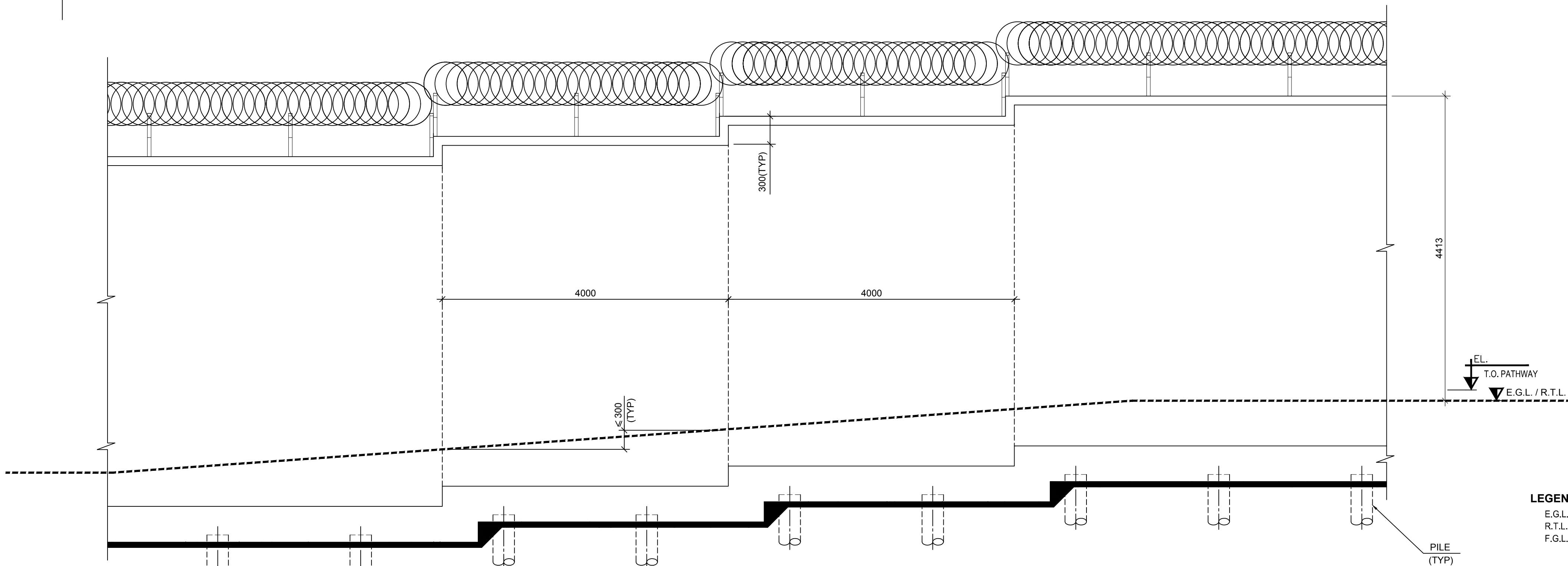
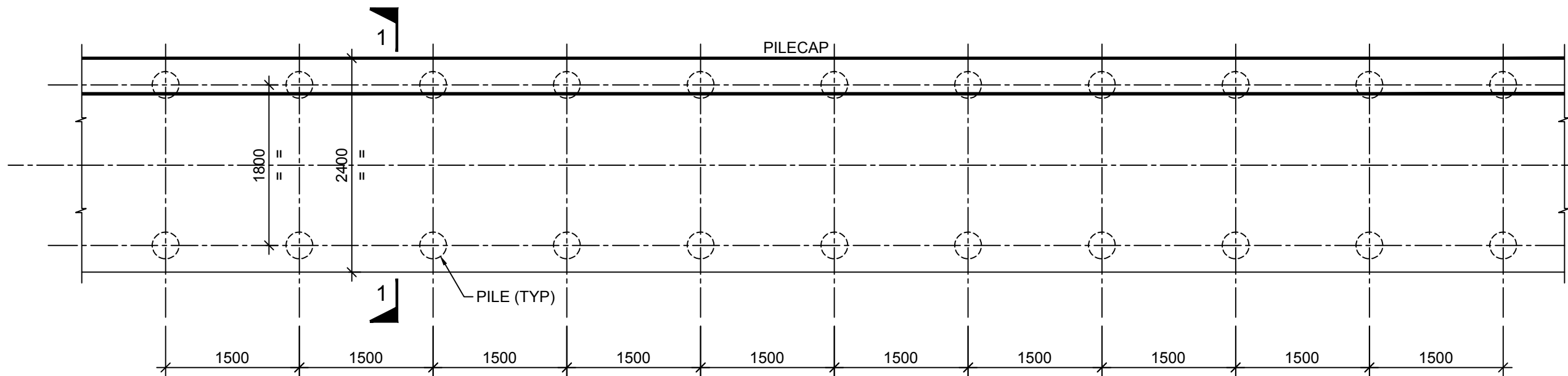
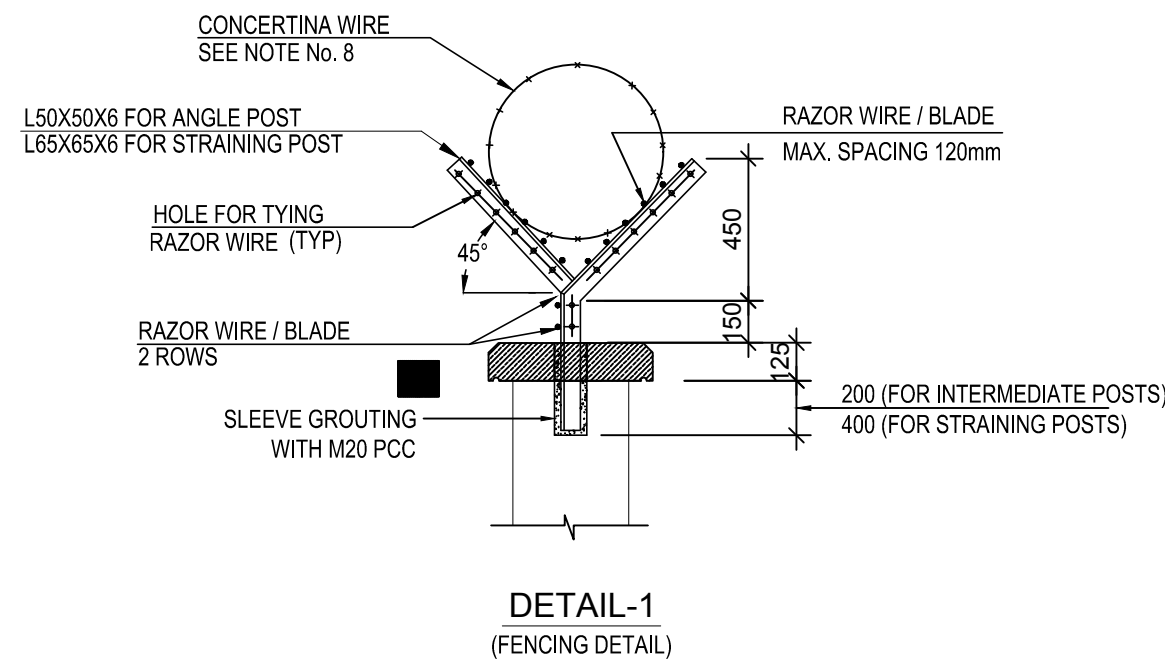


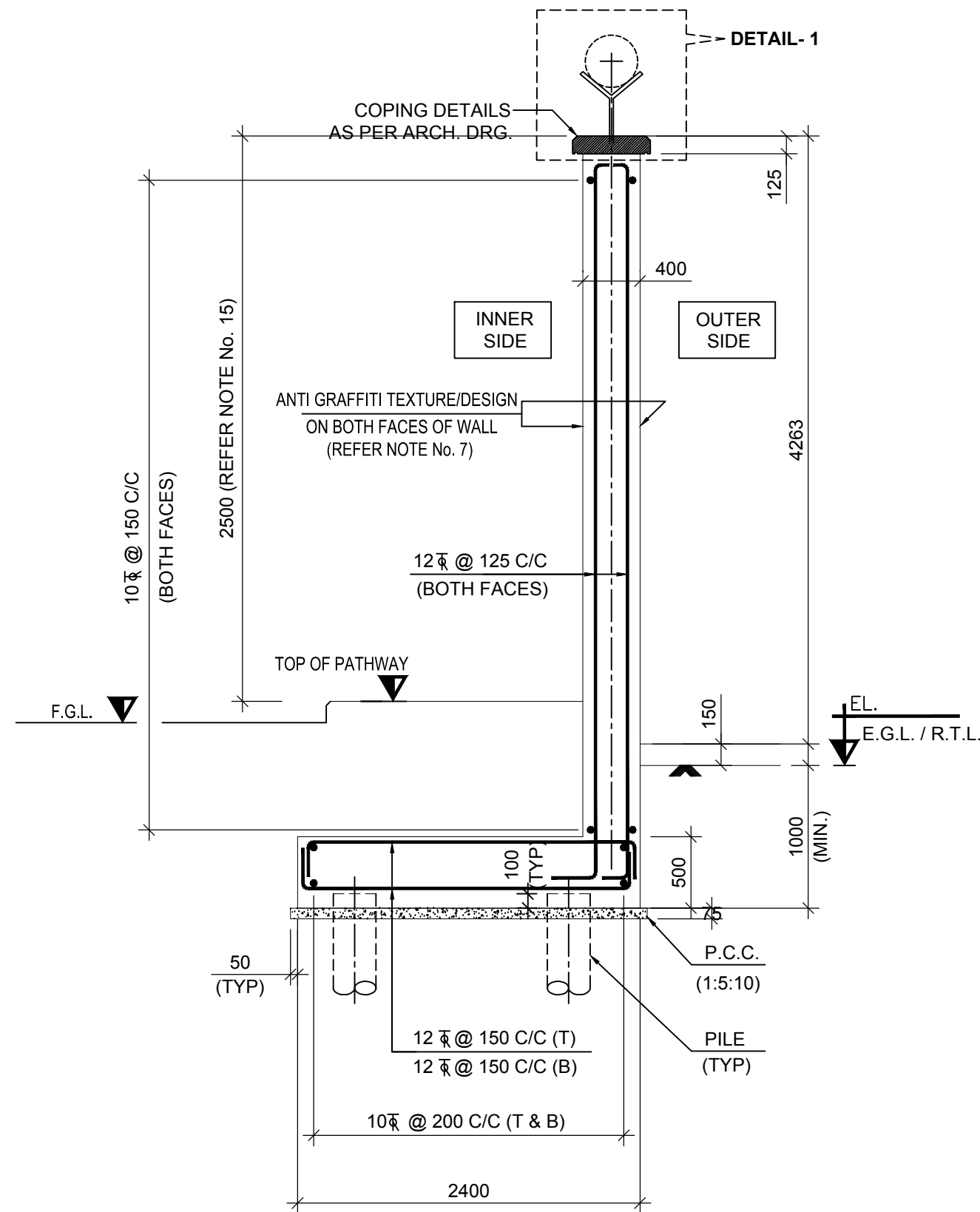
प्रस्तुत आख एवं इन्हें निर्दिष्ट इंडिया लिमिटेड की संपत्ति है। ये सब उधार दिए गए हैं और उधारकर्ता ने यह स्पष्ट समझौता किया है कि न तो उन्हें पुनः मुद्रित किया जाएगा, न नकल की जाएगी, न उधार दिए जाएंगे, न प्रदर्शित किए जाएंगे और न ही सीमित और निजी प्रयोग के अलावा इनका कोई अन्य प्रयोग होगा और यह प्रयोग होगा कि निर्धारित रूप में ही यह दस्तावेज से होगा।
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TYPICAL ELEVATION OF BOUNDARY WALL
(FROM OUTSIDE)



PART PLAN OF PILECAP & BOUNDARY WALL

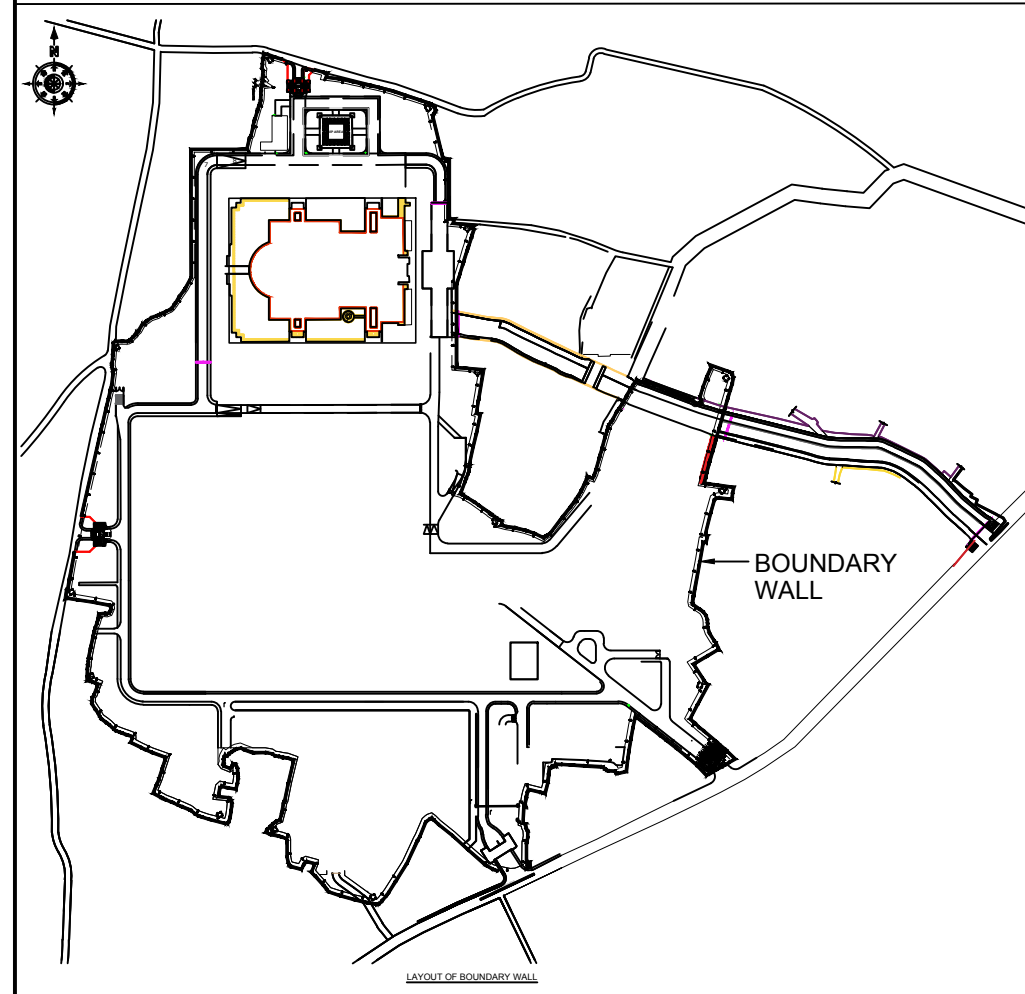


SECTION 1-1
TYP. CROSS-SECTION OF BOUNDARY WALL

LEGEND :
E.G.L. = EXISTING GROUND LEVEL
R.T.L. = ROAD TOP LEVEL
F.G.L. = FINISHED GROUND LEVEL

NOTES :-

- ALL DIMENSIONS ARE IN mm AND LEVELS & COORDINATES ARE IN M.
- R.C.C. GRADE SHALL BE M30 AS PER IS:456, SELF COMPACTING CONCRETE WITH MAXIMUM LIFT OF 3m SHALL BE USED.
- REINFORCEMENT SHALL BE HIGH STRENGTH DEFORMED (TMT) BARS (GRADE F6500 D) CONFORMING TO IS:1786.
- THE CLEAR COVER TO THE REINFORCEMENT BAR :
IN R.C.C. WALL = 40 mm
IN FOOTING = 40 mm
- PILE DETAIL SHALL BE AS PER GEO-TECH. SPECIFICATION / DRG.
- IN CASE OF SLOPING GROUND PROFILE ALONG BOUNDARY WALL, SCHEMATIC ELEVATION TO BE DEVELOPED BY THE EXECUTING AGENCY.
- ALUMINIUM SHUTTERING PANEL WITH IN BUILT MOLDING DESIGN AS PER ARCH. DETAILS SHALL BE USED FOR WALL ABOVE E.G.L./R.T.L..
- CONCERTINA WIRE RING SHALL BE TIED WITH LONGITUDINAL RUNS OF RAZOR WIRE / BLADE FENCE SUITABLY :
- DIA OF RING = 610 mm (#)
(#) DIA. OF CONCERTINA WIRE SHALL BE ADOPTED AS PER MARKET AVAILABILITY , NEARER TO 600mm.
- CONCERTINA WIRE & RAZOR BLADE SHALL BE OF STAINLESS STEEL GRADE 304 AS PER IS:6528 & IS:6911 RESPECTIVELY.
- STRAINING POST SHALL BE PROVIDED AT EVERY 90M APPROX.
- STRAINING POST & INTERMEDIATE POST SHALL BE OF STAINLESS STEEL OF GRADE 304.
- FOR ELECTRICAL & INSTRUMENTATION WIRING, 40 mm CONDUITS WITH JUNCTION BOXES SHALL BE PLACED THROUGH R.C.C.WALL AT EVERY 28M & EVERY 100M RESPECTIVELY.
- FOR LOCATION OF BOUNDARY WALL REFER CIVIL LAYOUT DRG. No. C098-000-81-45-00002.
- FOR DETAIL ELEVATION OF BOUNDARY WALL REFER ARCH. DRG. No. CIVIL LAYOUT DRG. No. C098-000-81-46-02101, 02201 & 02202.
- F.G.L., T.O.PATHWAY SHALL BE AS PER CIVIL LAYOUT DRG. No. C098-000-81-45-00002.
- E.G.L. & R.T.L. ALONG BOUNDARY WALL OUTSIDE SHALL BE AS PER CIVIL LAYOUT DRG. No. C098-000-81-45-00002, SAME SHALL BE VERIFIED AT SITE BEFORE CONSTRUCTION.
- MINIMUM 2.5 M HEIGHT OF BOUNDARY WALL SHALL BE MAINTAINED ALONG INNER SIDE FROM TOP OF PATHWAY TO TOP OF STONE COPING. IN ANY CASE IF IT IS LESSER AT ANY LOCATION, THEN OVERALL HEIGHT OF BOUNDARY WALL NEED TO BE INCREASED SUITABLY.



KEY PLAN
(N.T.S.)

REV.	DATE	REVISIONS	BY	CHKD	APPD	PEMPC
0	14-06-2025	ISSUED FOR CONSTRUCTION				
B	25-06-2025	ISSUED FOR IT APPROVAL				
A	11-06-2025	ISSUED FOR TENDER				

इंजीनियर्स इंडिया लिमिटेड
(भारत सरकार का उपक्रम)
ENGINEERS INDIA LIMITED
(A Govt. of India Undertaking)

श्रीराम जन्मभूमि तीर्थ क्षेत्र ट्रस्ट, अयोध्या
SRI RAM JANMBHoomi TEERTH KSHETRA TRUST, AYODHYA

बाउंडरी वॉल

BOUNDARY WALL

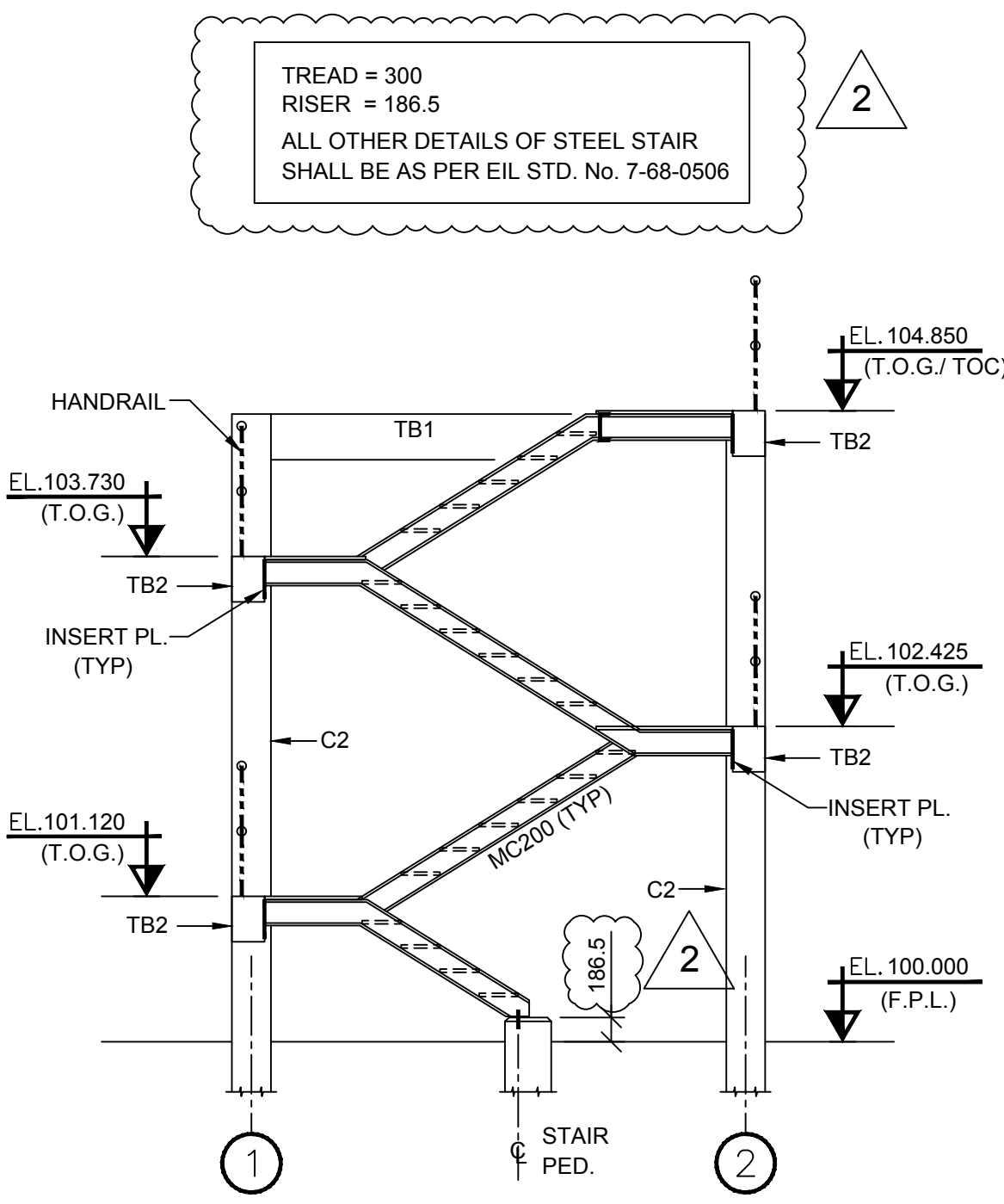
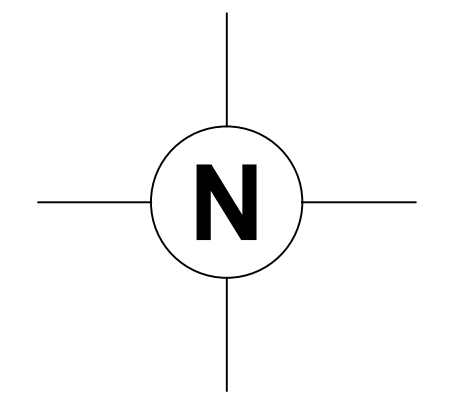
उपरी संरचना और नीचे का टिपिकल सामान्य विन्यास एवम् प्रबलित व्यौरा

TYPICAL GA & R/F DETAIL OF FDN. & SUPER STR.

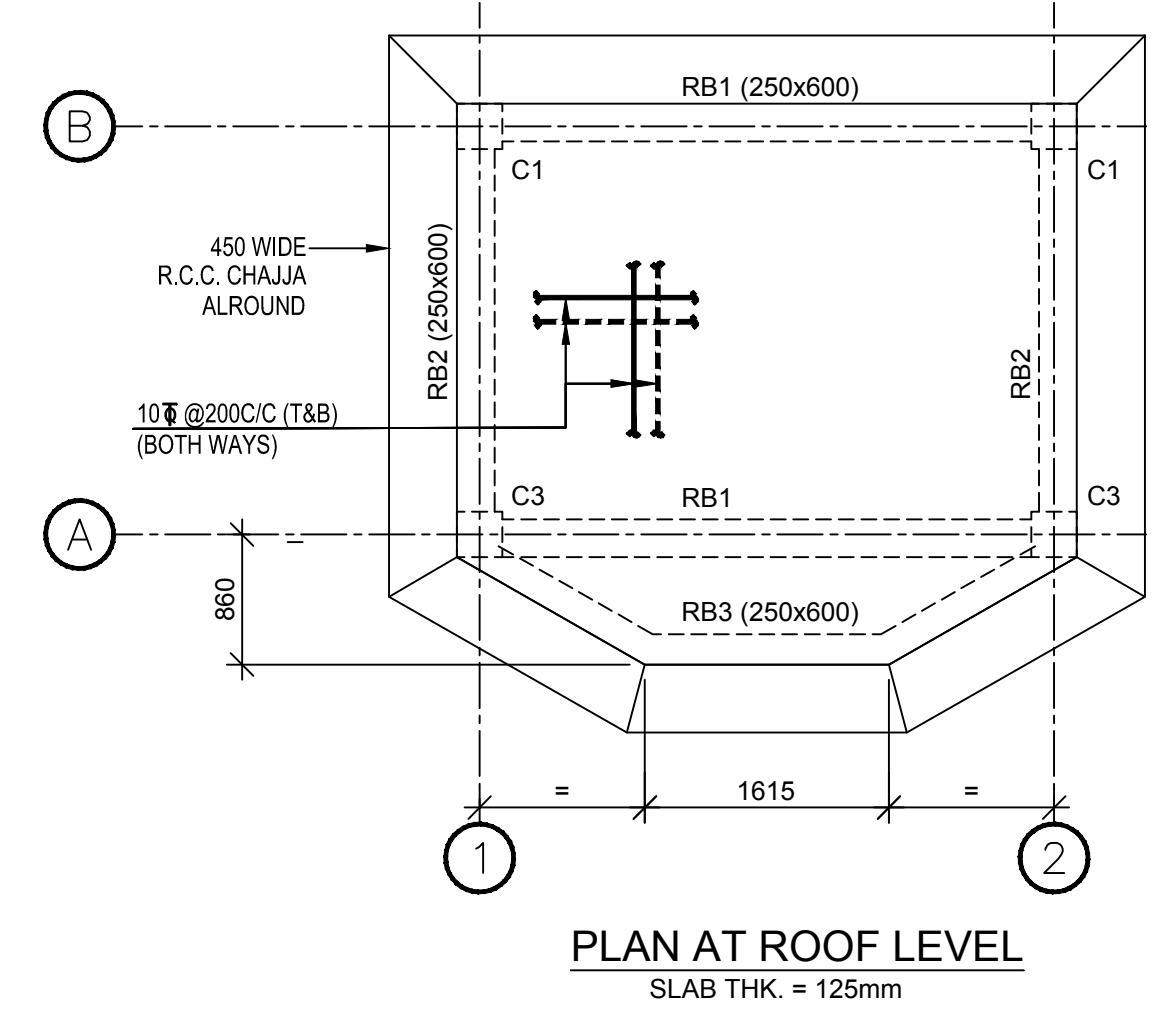
SCALE	JOB NO.	UNIT	DIVN.	DEPT.	DWG. NO.	REV.
1:100	C098	000	81	41	16401	0

प्रस्तावित आलेख एवं इसके निर्माण विवरण संबंधित शीटिंग निर्देशों को संश्लेषित है। ये मात्र उद्देश्य के लिए हैं और उदाहरण के तौर पर हैं। प्रस्तावित निर्माण के लिए आवश्यक सभी आवश्यकताओं को निर्माण करीब से ध्यान में रखा गया है।
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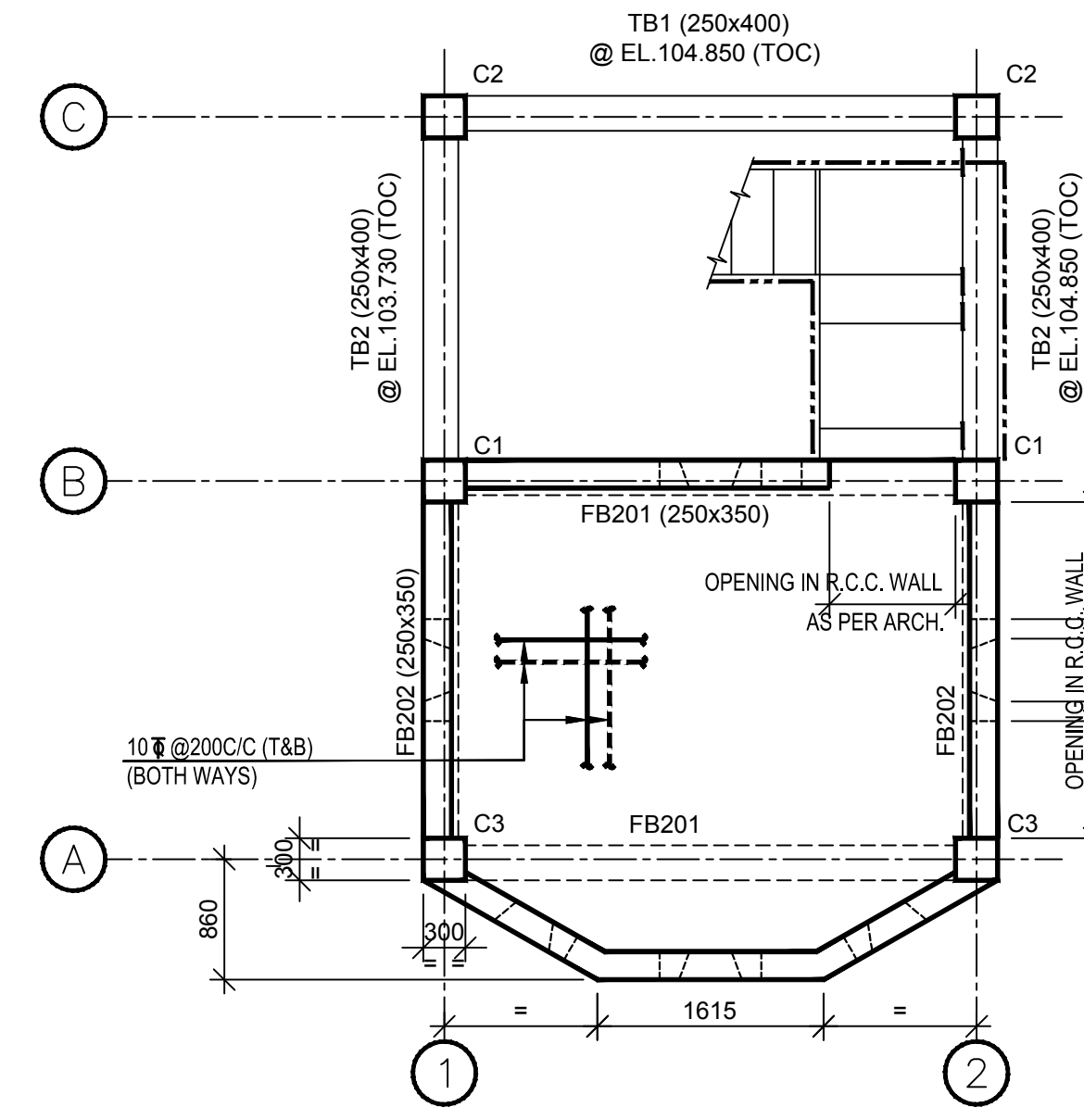
C098-000-81-41-06-02



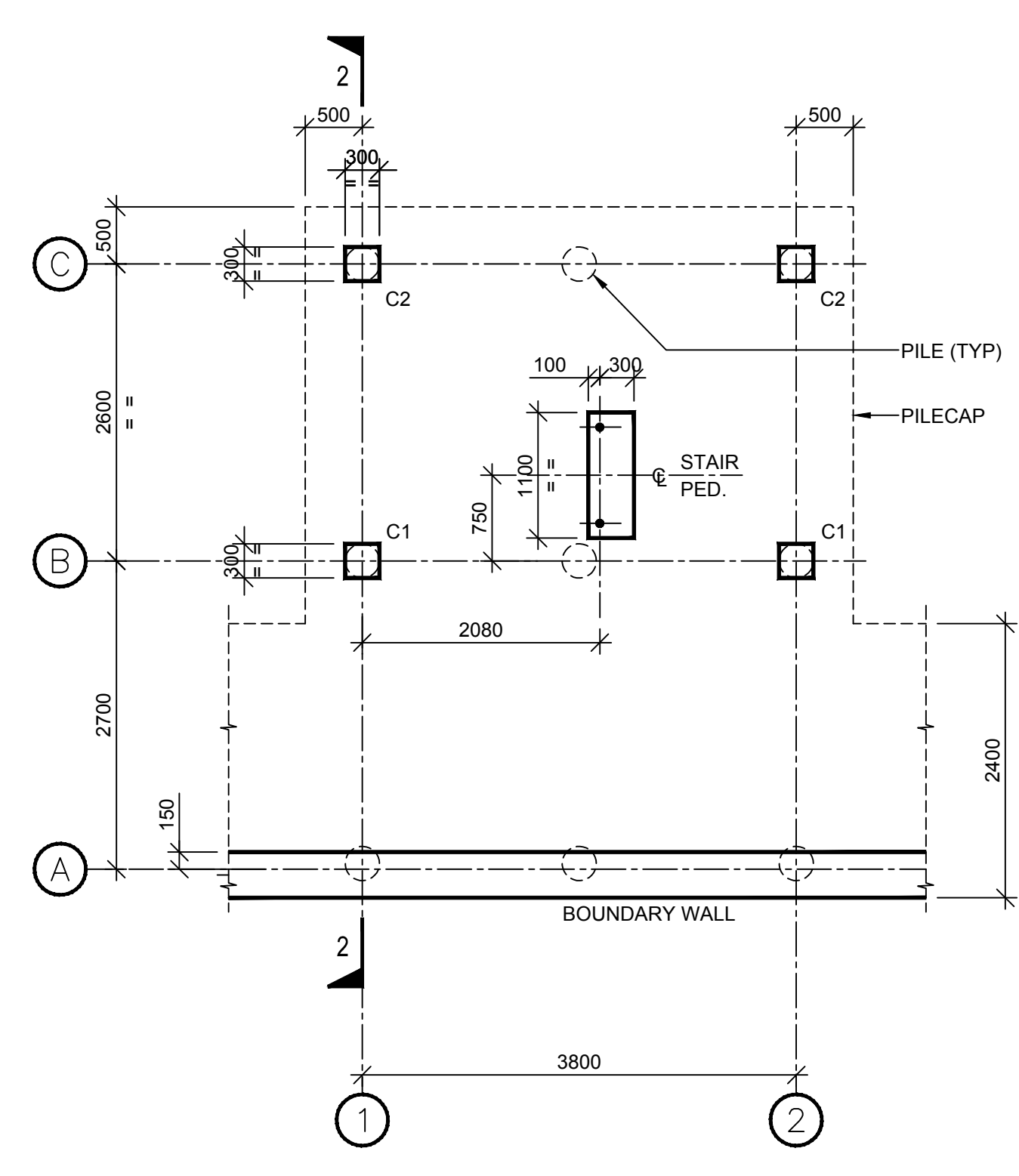
SECTION 1-1
(F.P.L.) - FINISHED PAVEMENT LEVEL



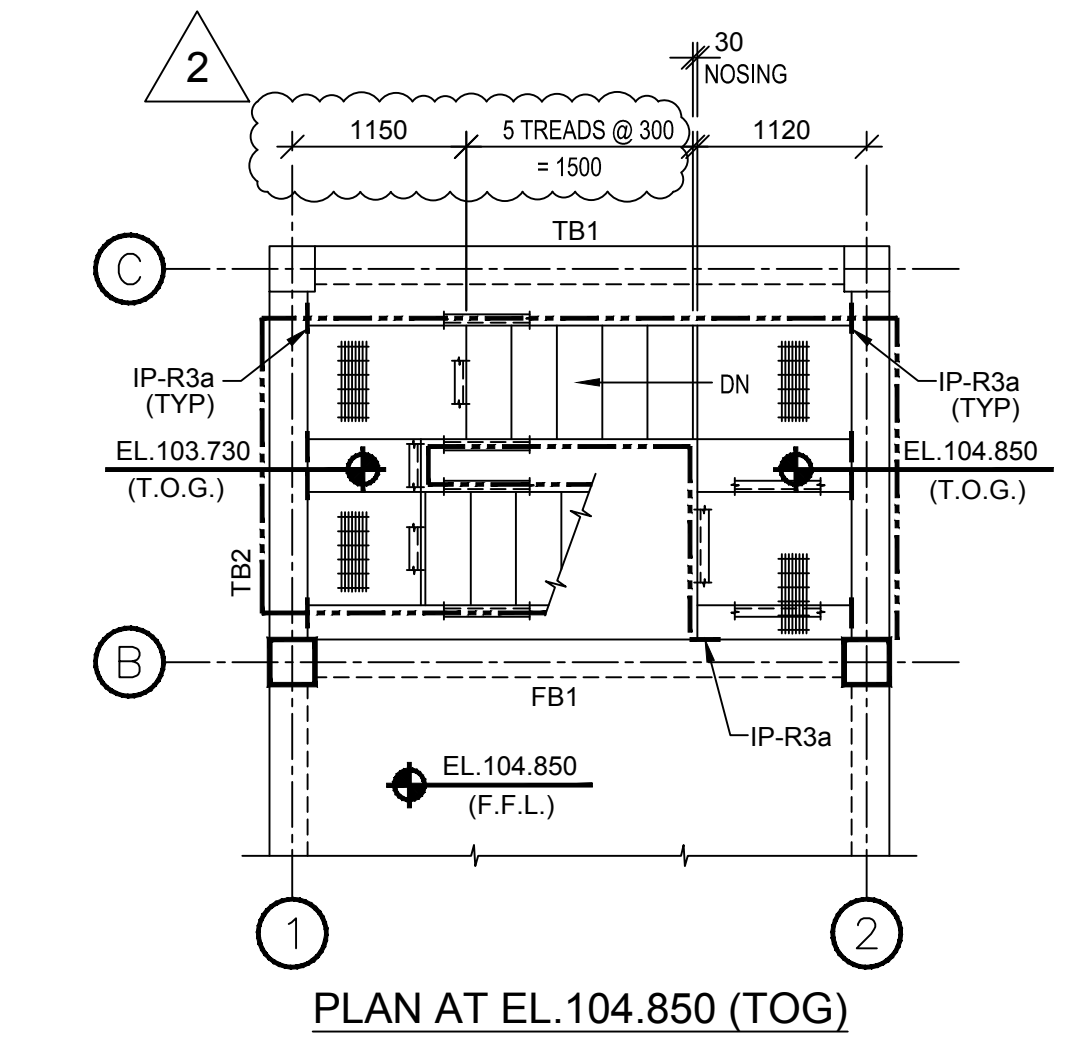
PLAN AT ROOF LEVEL
SLAB THK. = 125mm



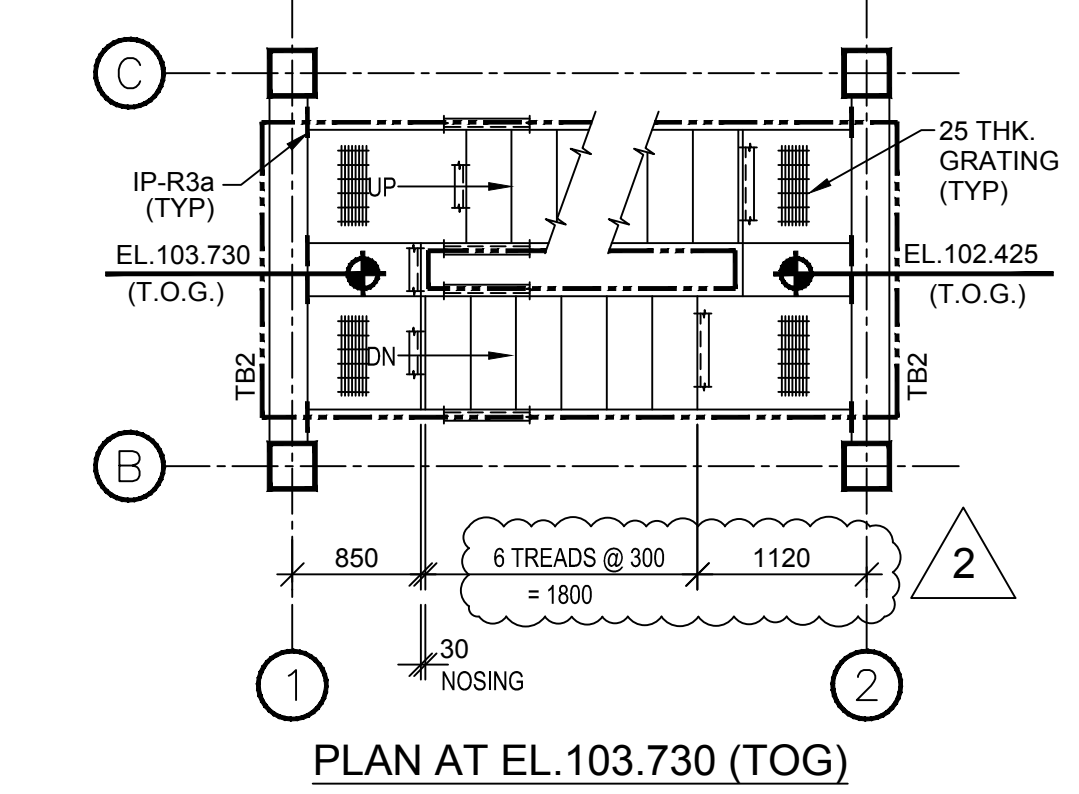
PLAN AT EL.104.850 (TOC), U.N.O.
SLAB THK. = 125mm



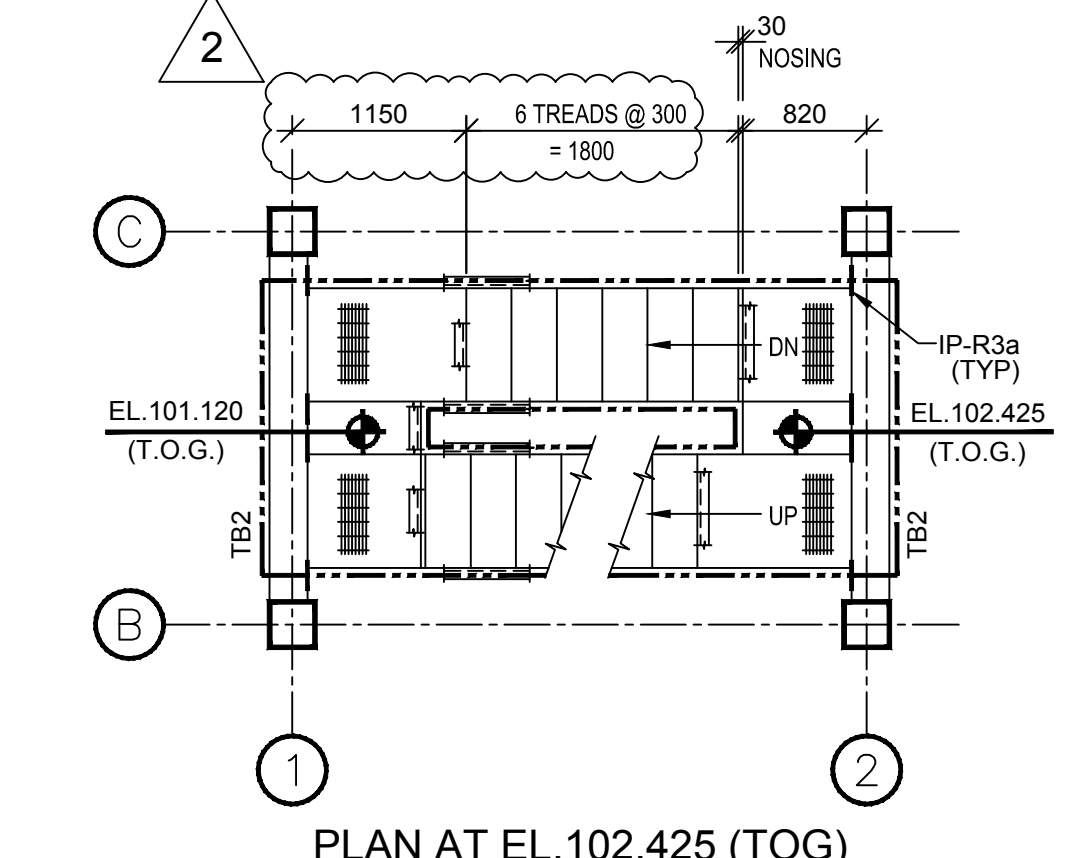
FOUNDATION PLAN
REFER TO C098-000-81-41-06-02 (SEE REVISIONS)



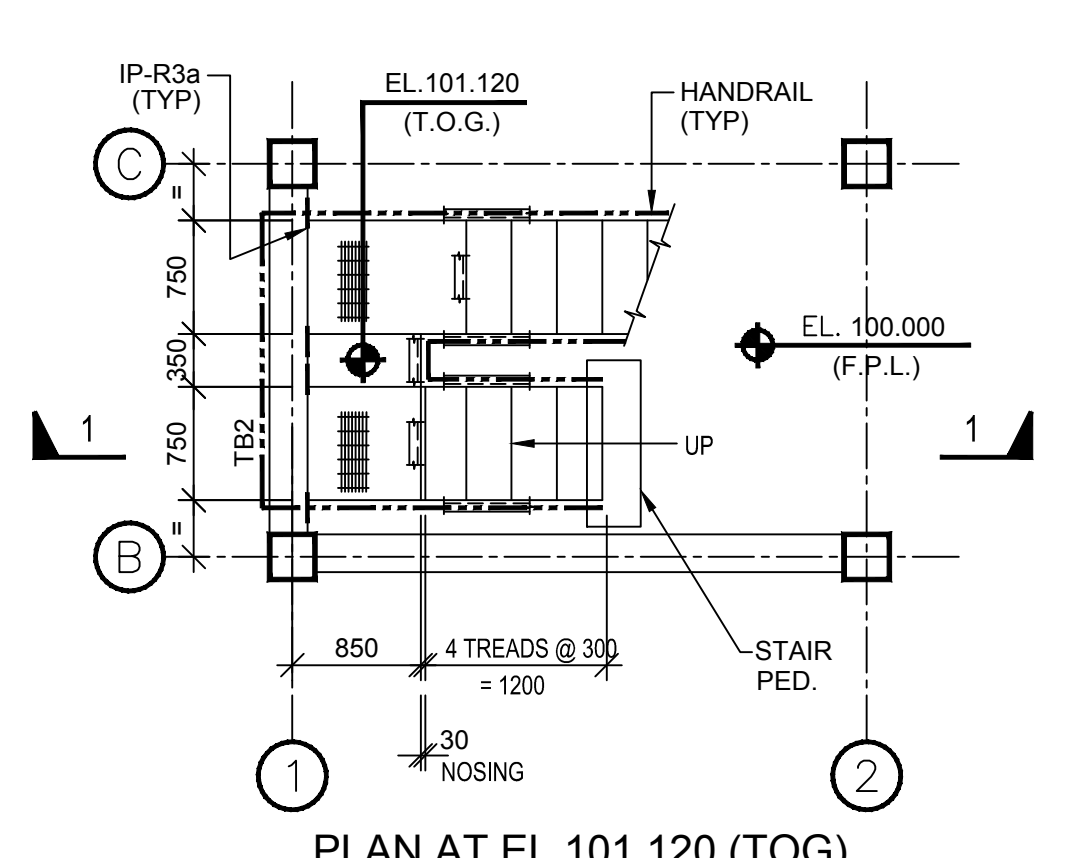
PLAN AT EL.104.850 (TOG)



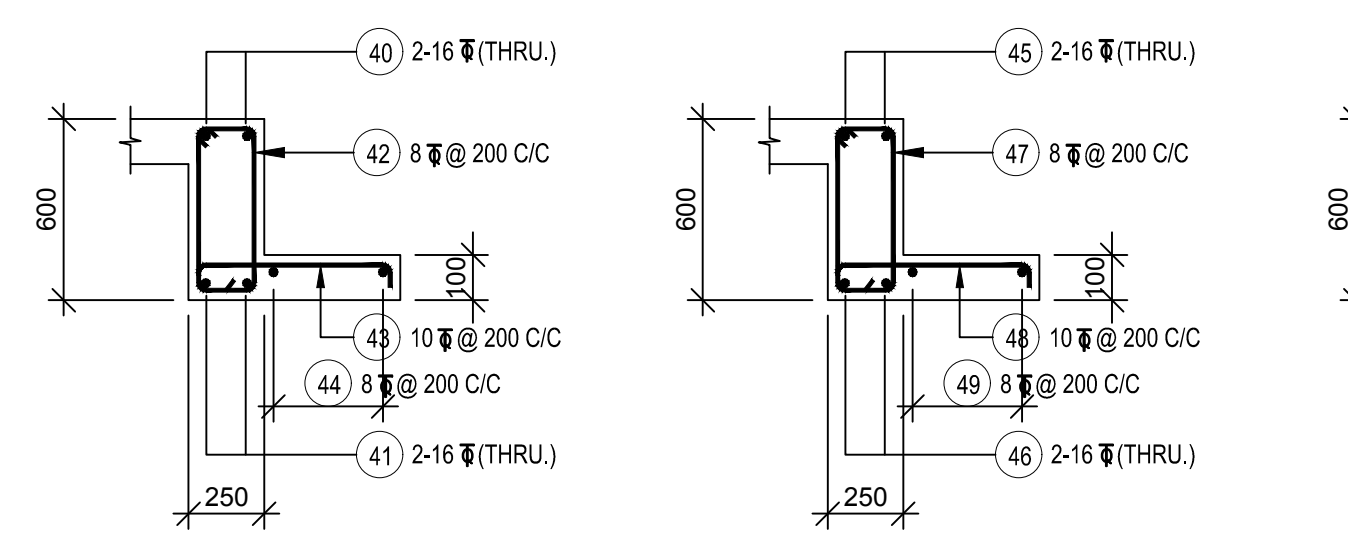
PLAN AT EL.103.730 (TOG)



PLAN AT EL.102.425 (TOG)



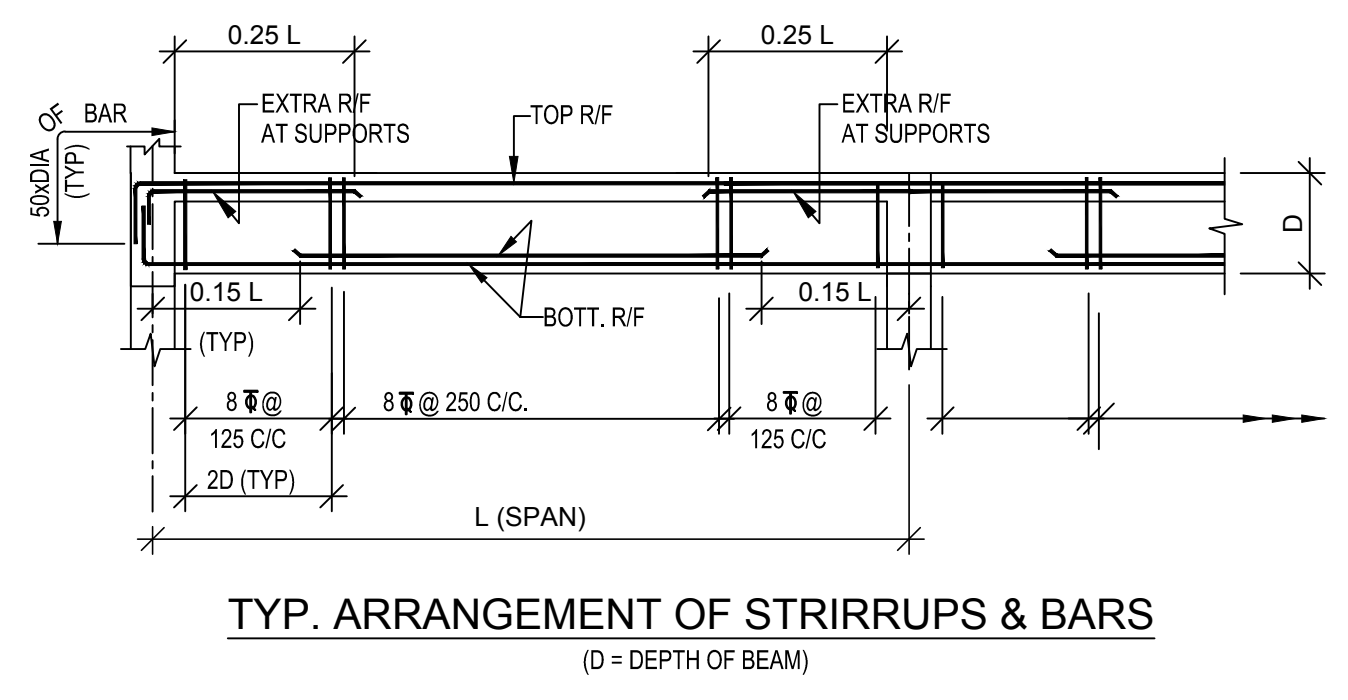
PLAN AT EL.101.120 (TOG)



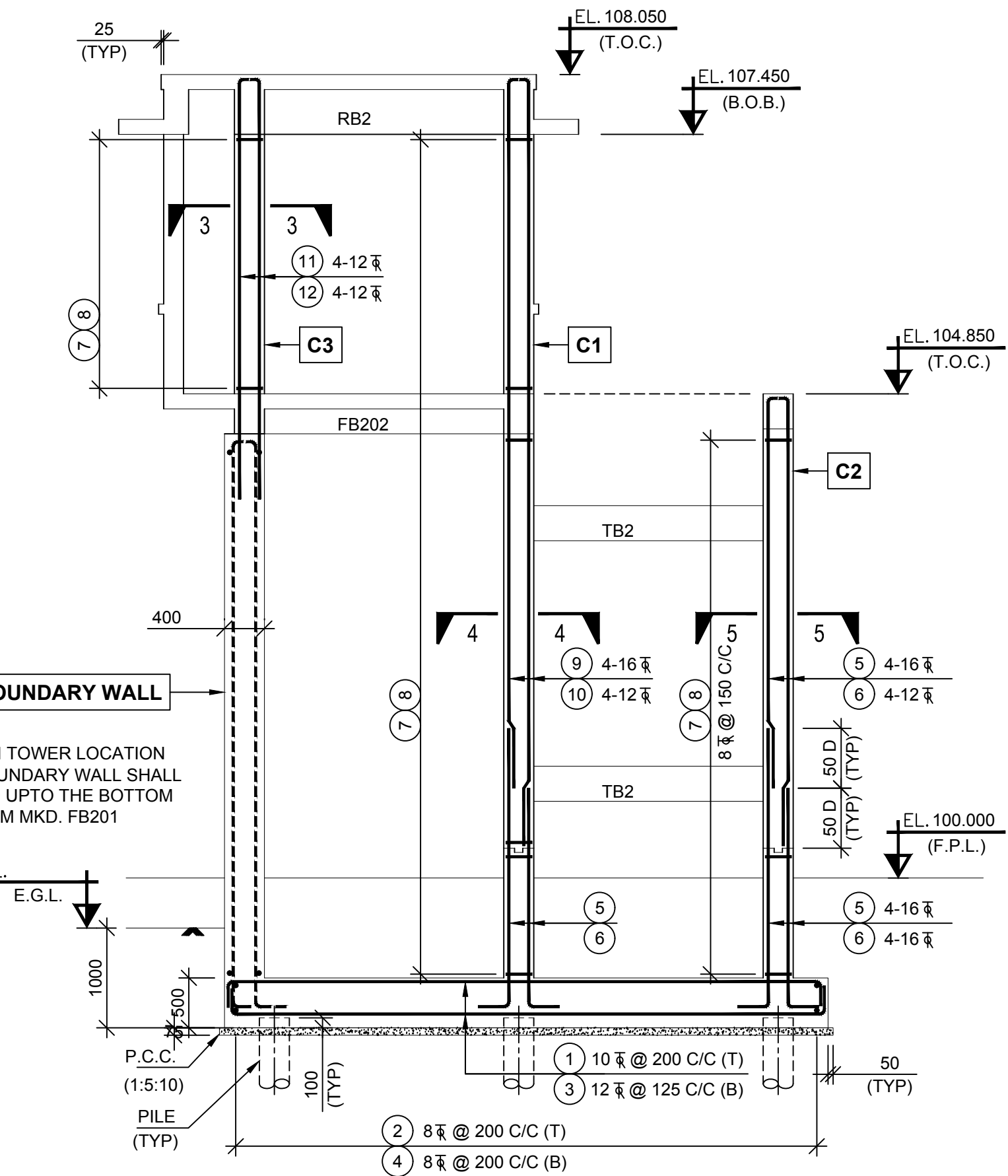
R/F DET. OF BEAM
MKD. RB1

R/F DET. OF BEAM
MKD. RB2

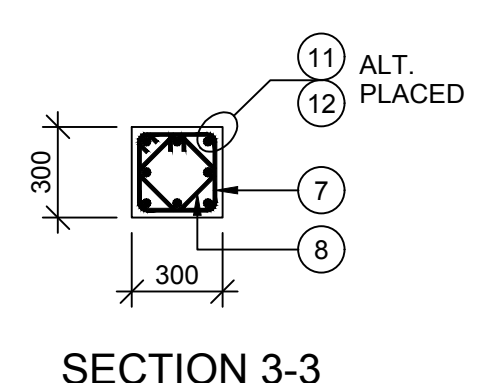
R/F DET. OF BEAM
MKD. RB3



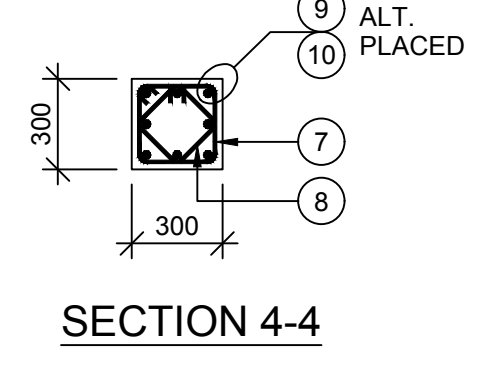
TYP. ARRANGEMENT OF STIRRUPS & BARS
(D = DEPTH OF BEAM)



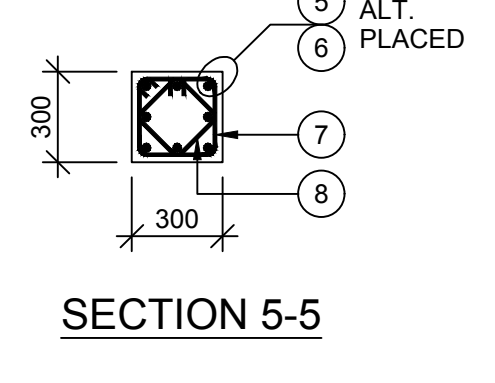
SECTION 2-2



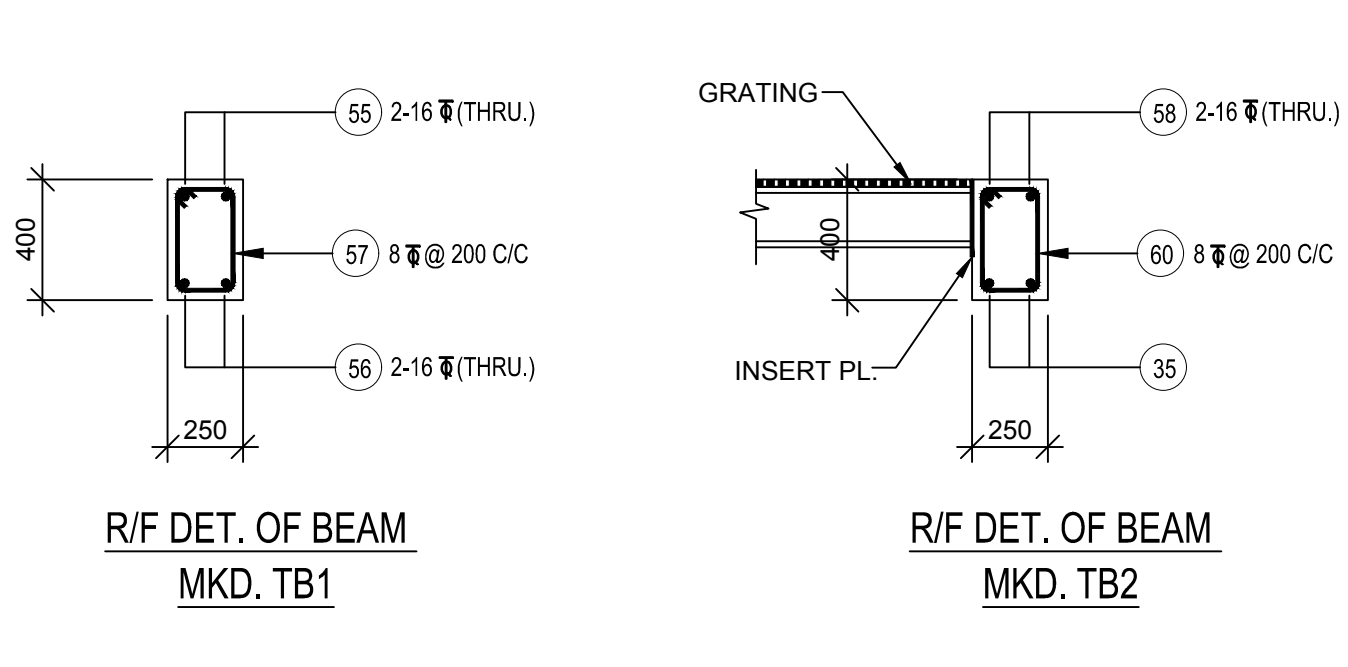
SECTION 3-3



SECTION 4-4

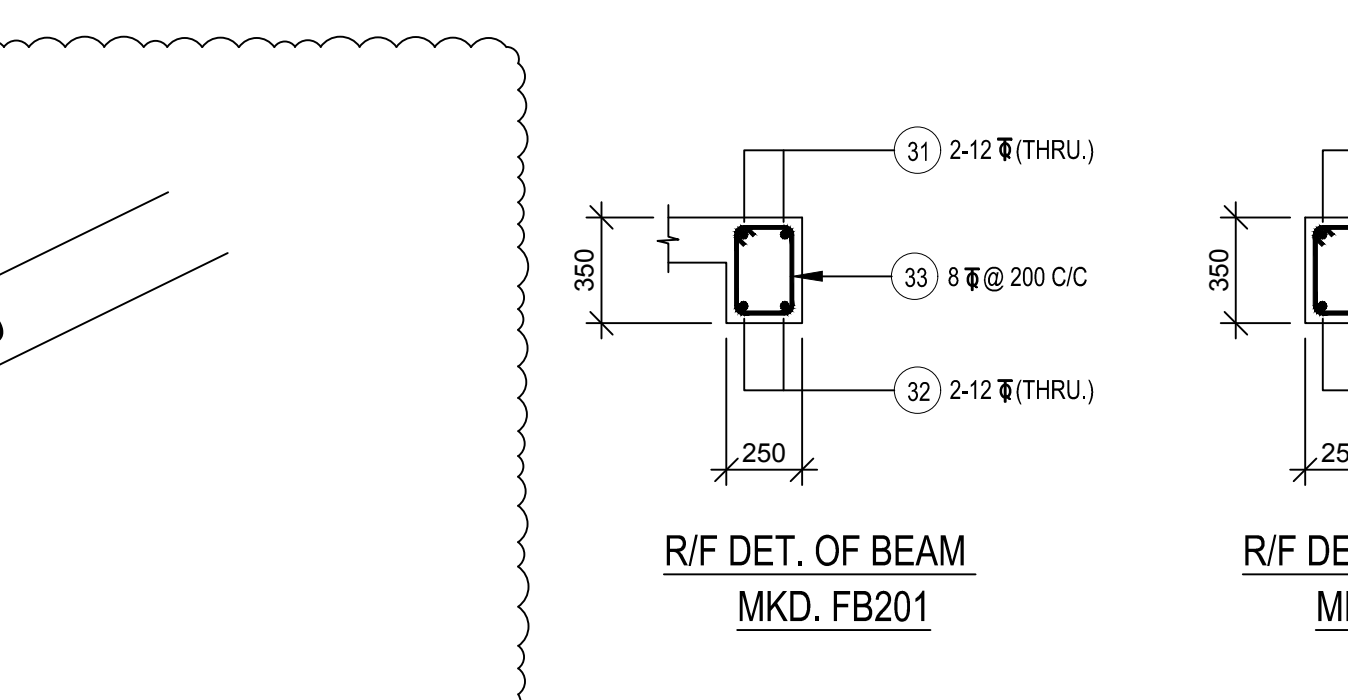


SECTION 5-5



R/F DET. OF BEAM
MKD. TB1

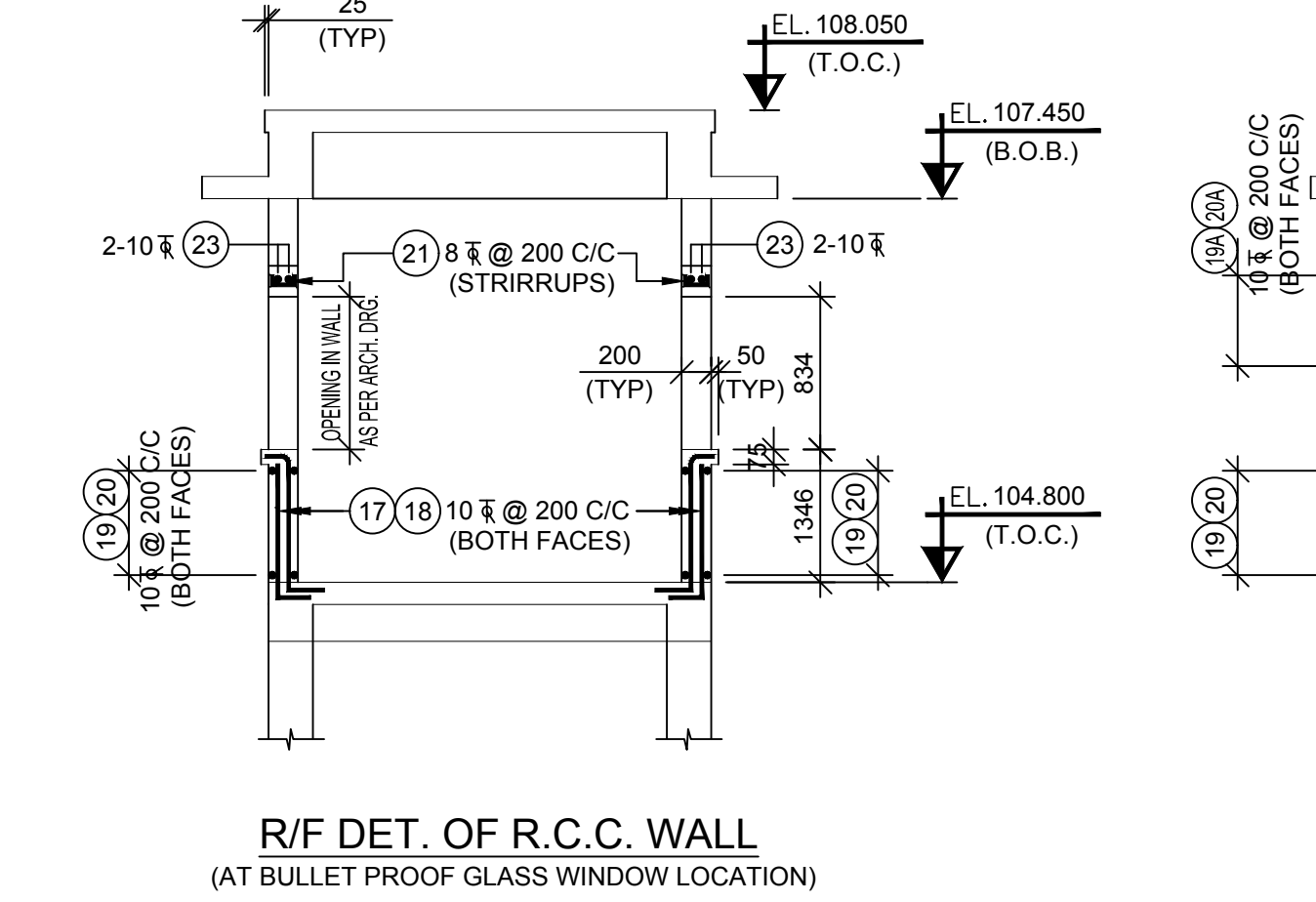
R/F DET. OF BEAM
MKD. TB2



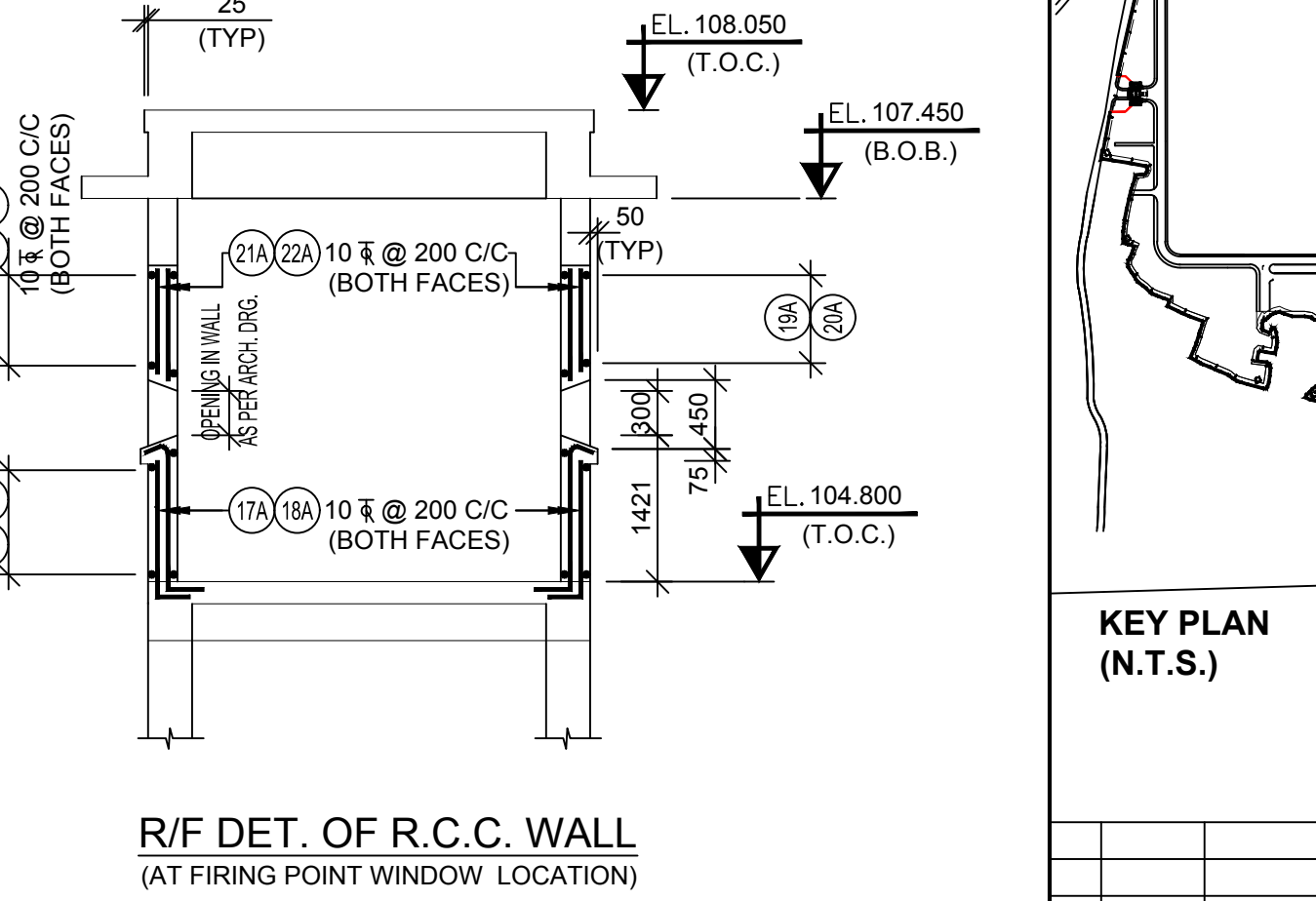
R/F DET. OF BEAM
MKD. FB201

R/F DET. OF BEAM
MKD. FB202

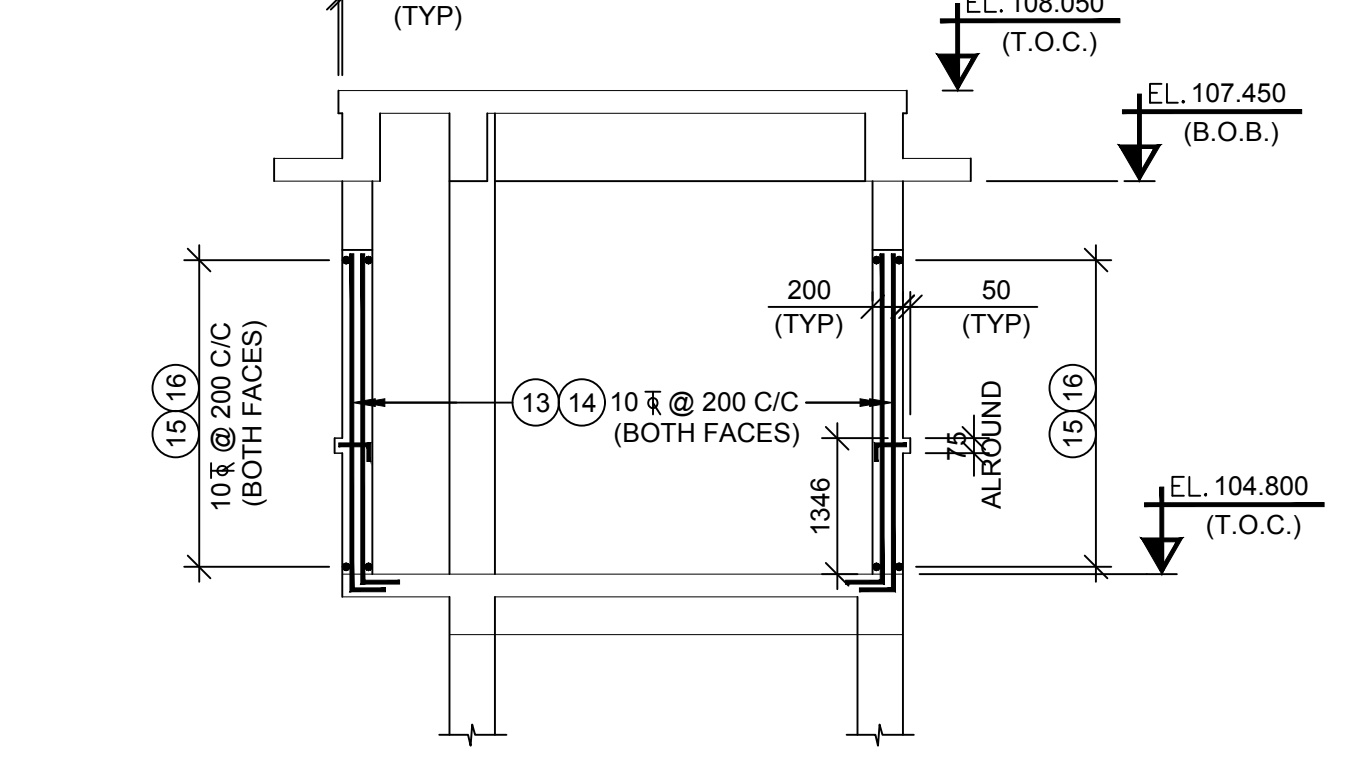
R/F DET. OF BEAM
MKD. FB203



R/F DET. OF R.C.C. WALL
(AT BULLET PROOF GLASS WINDOW LOCATION)



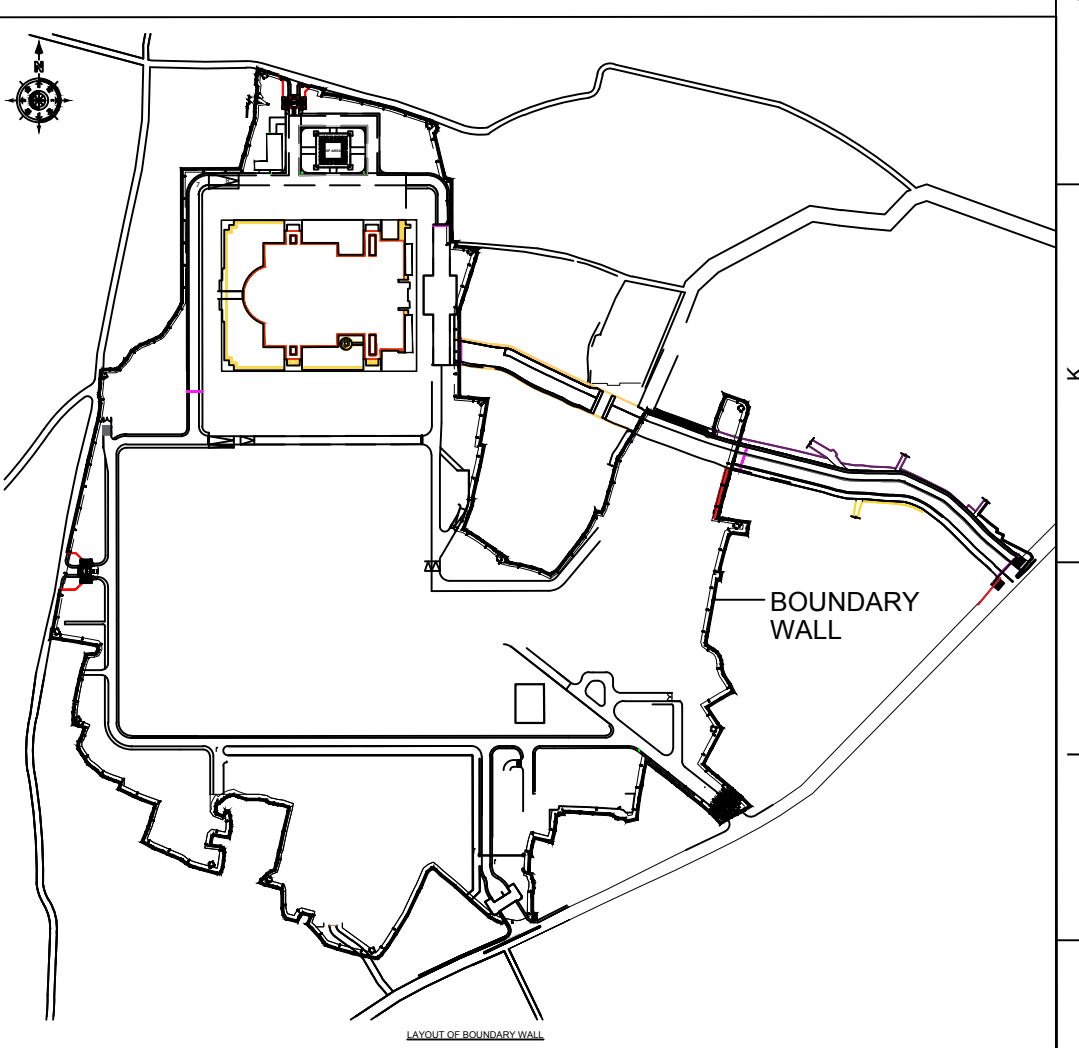
R/F DET. OF R.C.C. WALL
(AT FIRING POINT WINDOW LOCATION)



R/F DET. OF R.C.C. WALL

REF. DWG. NO.	REFERENCE DRAWING TITLE
B979-000-81-46-02302	ARCH. DRG. - SECTIONS
B979-000-81-46-02303	ARCH. DRG. - PLAN AND ELEVATION

- NOTES :-
- ALL DIMENSIONS ARE IN mm AND LEVELS & COORDINATES ARE IN M.
 - R.C.C. GRADE SHALL BE M30 AS PER IS 456. SELF COMPACTING CONCRETE WITH MAXIMUM LIFT OF 3m SHALL BE USED FOR R.C.C. WALLS.
 - R.C.C. GRADE M30 AS PER IS 456. SHALL BE USED FOR R.C.C. STRUCTURAL COMPONENTS OTHER THAN R.C.C. WALLS.
 - REINFORCEMENT SHALL BE HIGH STRENGTH DEFORMED (TMT) BARS (GRADE F450 D) CONFORMING TO IS:1786.
 - THE CLEAR COVER TO THE REINFORCEMENT BAR :-
IN R.C.C. COLUMN = 40 mm
IN R.C.C. BEAM = 30 mm
IN R.C.C. SLAB = 25 mm
IN R.C.C. WALL = 30 mm
 - PILE DETAIL SHALL BE AS PER GEO-TECH DWG. No. B979-000-81-47-31001.
 - FOR DETAILS OF STAIRCASE PEDESTAL REFER EIL STD. No. 7-68-0008.
 - FOR R/F DETAILS OF STAIRCASE PEDESTAL REFER EIL STD. No. 7-68-0067.
 - FOR DETAILS OF STEEL STAIRS REFER EIL STD. No. 7-68-0506.
 - FOR DETAILS OF HANDRAIL REFER EIL STD. No. 7-68-0501.
 - FOR DETAILS OF ANCHOR BOLTS REFER EIL STD. No. 7-68-0417.
 - FOR DETAILS OF INSERT PLATES REFER EIL STD. No. 7-68-0056.
 - FOR ELECTRICAL & INSTRUMENTATION WIRING, 40 mm CONDUITS WITH JUNCTION BOXES SHALL BE PLACED THROUGH R.C.C. WALL AT EVERY 28M & EVERY 100M RESPECTIVELY.
 - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRG. No. C098-000-81-41-06-001 TO 06315.
 - LOCATION & ORIENTATION OF WATCH TOWERS SHALL BE AS MARKED IN LAYOUT DRGS. OF BOUNDARY WALL SEGMENTS AS PER ARCH. & STRL. DRGS.



KEY PLAN
(N.T.S.)

2	19-02-2020	REVISED AS MARKED	AM	AM
1	18-01-2020	REVISED AS MARKED	AM	AM
0	14-10-2019	REVISED FOR CONSTRUCTION	AM	AM
0	02-02-2020	ISSUED FOR COMMENTS	AM	AM
REV.	DATE	REVISIONS	BY	CHKD/APPD/EMPC
ENGINEERS INDIA LIMITED (भारतीय इंजीनियरिंग लिमिटेड) (A Govt. of India Undertaking)				
श्रीराम जन्मभूमि तीर्थ क्षेत्र ट्रस्ट, अयोध्या SHRI RAM JANMBHUMI TEERTH KSHETRA TRUST, AYODHYA				
CONSTRUCTION OF BOUNDARY WALL AROUND TEMPLE COMPLEX AT AYODHYA.				
वाचक टावर उपरी संरचना और नीचे का सामान्य विवरण एवं प्रवर्तित ऋण		WATCH TOWER GA & R/F DETAIL OF FDN. & SUPER STR.		
SCALE	JOB NO.	UNIT	DIVN.	DEPT.
1:50	C098	000	81	41
			DWG. NO.	REV.
			06402	2

0698-000-81-46-02201

TYPICAL ELEVATION (SCALE :1:30)
ORNAMENTAL BOUNDARY WALL

PLAN FROM TOP (SCALE :1:30)
ORNAMENTAL BOUNDARY WALL

PLAN AT XX' (SCALE :1:30)
ORNAMENTAL BOUNDARY WALL

SECTION AA' (SCALE :1:15)
ORNAMENTAL BOUNDARY WALL

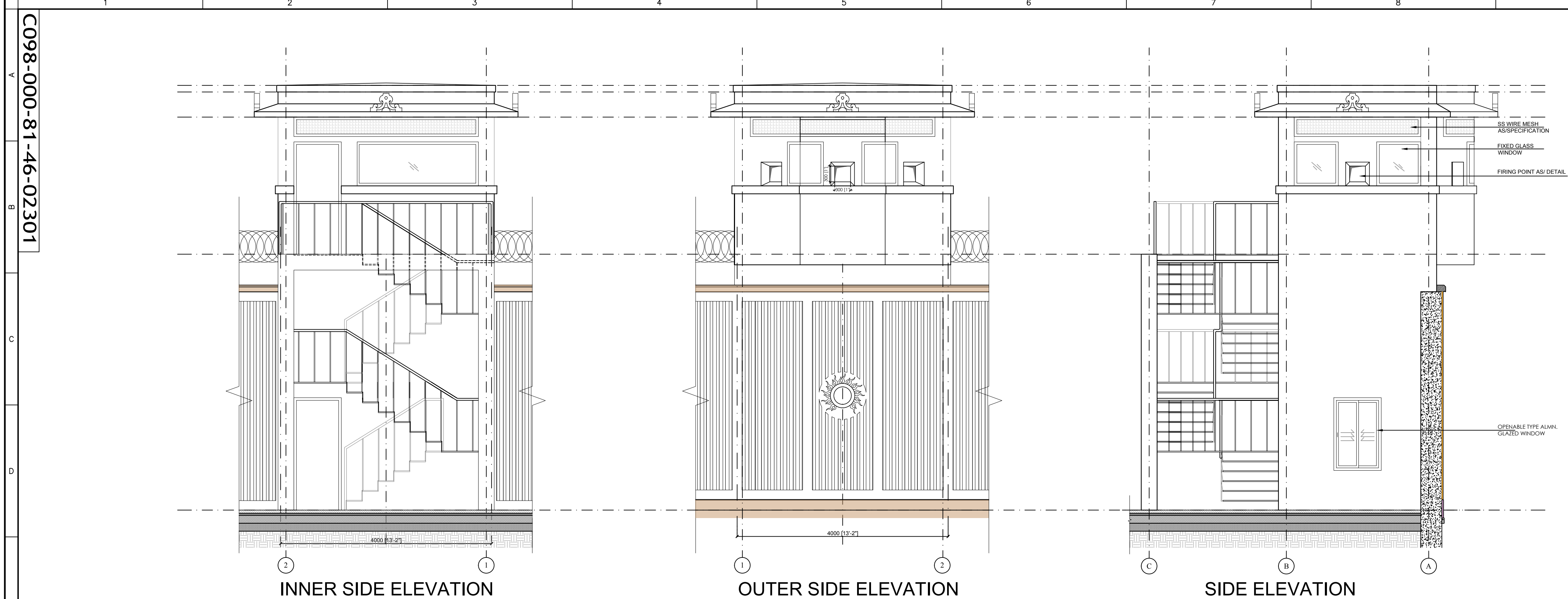
PART SECTION THROUGH ADECULE (SCALE :1:10)
ORNAMENTAL BOUNDARY WALL

The figure consists of five architectural drawings of an ornamental boundary wall:

- TYPICAL ELEVATION (SCALE :1:30):** Shows the wall's profile with vertical dimensions of 600 [2'], 4263 [14'], 3938 [12'-11"], and 200 [8"]. It features decorative elements like SS Concertina Wire, SS Y-Post, Stone Coping, and Junction Boxes. Horizontal dimensions show repeating units of 2000 [6'-7"] and 4000 [13'-2"].
- PLAN FROM TOP (SCALE :1:30):** Shows the wall's footprint with a 1800MM wide patrolling pathway and anti-scaling devices. Horizontal dimensions are 4000 [13'-2"].
- PLAN AT XX' (SCALE :1:30):** A cross-section view showing the wall's internal structure, including RCC boundary wall, stone cladding, and stone moulding. It also shows the 1800MM wide patrolling pathway and anti-scaling devices.
- SECTION AA' (SCALE :1:15):** A detailed cross-section of the wall showing the foundation, including 150 DIA SLEEVE BELOW PAVER BLOCK (GI/ PVC PIPE), 200MM THK GSB, 200MM THK WBM/WMM, and PRECAST KERB STONE (200X200X150). It also shows the 1800MM wide patrolling pathway and 60 MM THICK CC PAVER BLOCK CATEGORY 'A' AS/IRC:SP63.
- PART SECTION THROUGH ADECULE (SCALE :1:10):** A detailed cross-section of the wall showing the foundation, including 150 DIA SLEEVE BELOW PAVER BLOCK (GI/ PVC PIPE), 200MM THK GSB, 200MM THK WBM/WMM, and PRECAST KERB STONE (200X200X150). It also shows the 1800MM wide patrolling pathway and 60 MM THICK CC PAVER BLOCK CATEGORY 'A' AS/IRC:SP63.

3-1641-0500 REV.2 A0-1189 x 841

प्रमाणित आलेख एवं इसके निर्माण विवरण इंजीनियरिंग डिजाइन लिमिटेड की संपत्ति हैं। ये मात्र उद्देश्य के लिए और उपयोग के लिए हैं। इनका उपयोग किसी भी अन्य उद्देश्य के लिए नहीं किया जा सकता है।
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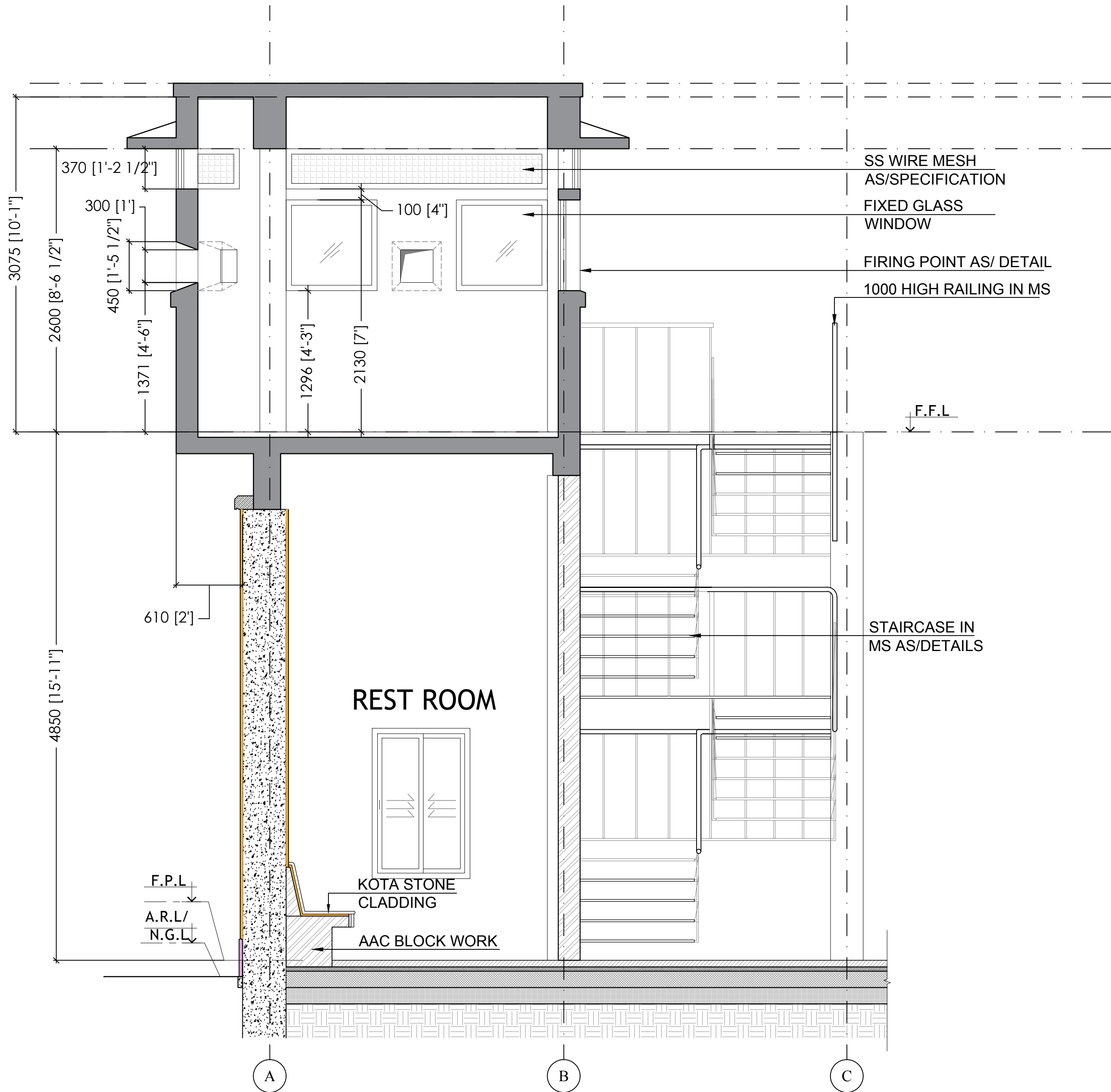
ELEVATIONS
SCALE 1:50

SCHEDULE OF DOORS & WINDOWS

TYPE	OPENING SIZE	FRAME SIZE	LINTEL LEVEL	DESCRIPTION	NOS
D1	900x2130	880x2120	2130	DOOR IN 4 MM THK ACP SHEET WITH POWDER COATED ALUMINIUM FRAME	02
W1	900x1380	880x1360	2130	3-TRACK SLIDING TYPE ANODISED ALUMINUM GLAZED WINDOW WITH 6MM THK TOUGHENED GLASS & WIRE MESH AS/ SPEC.	02
G1	836x834	816x814	2130	FIXED GLASS WINDOW	04
G2	720x834	700x814	2130	FIXED GLASS WINDOW	02
G3	2300x834	2280x814	2130	3-TRACK SLIDING TYPE ANODISED ALUMINUM GLAZED WINDOW WITH 6MM THK TOUGHENED GLASS & WIRE MESH AS/ SPEC.	01

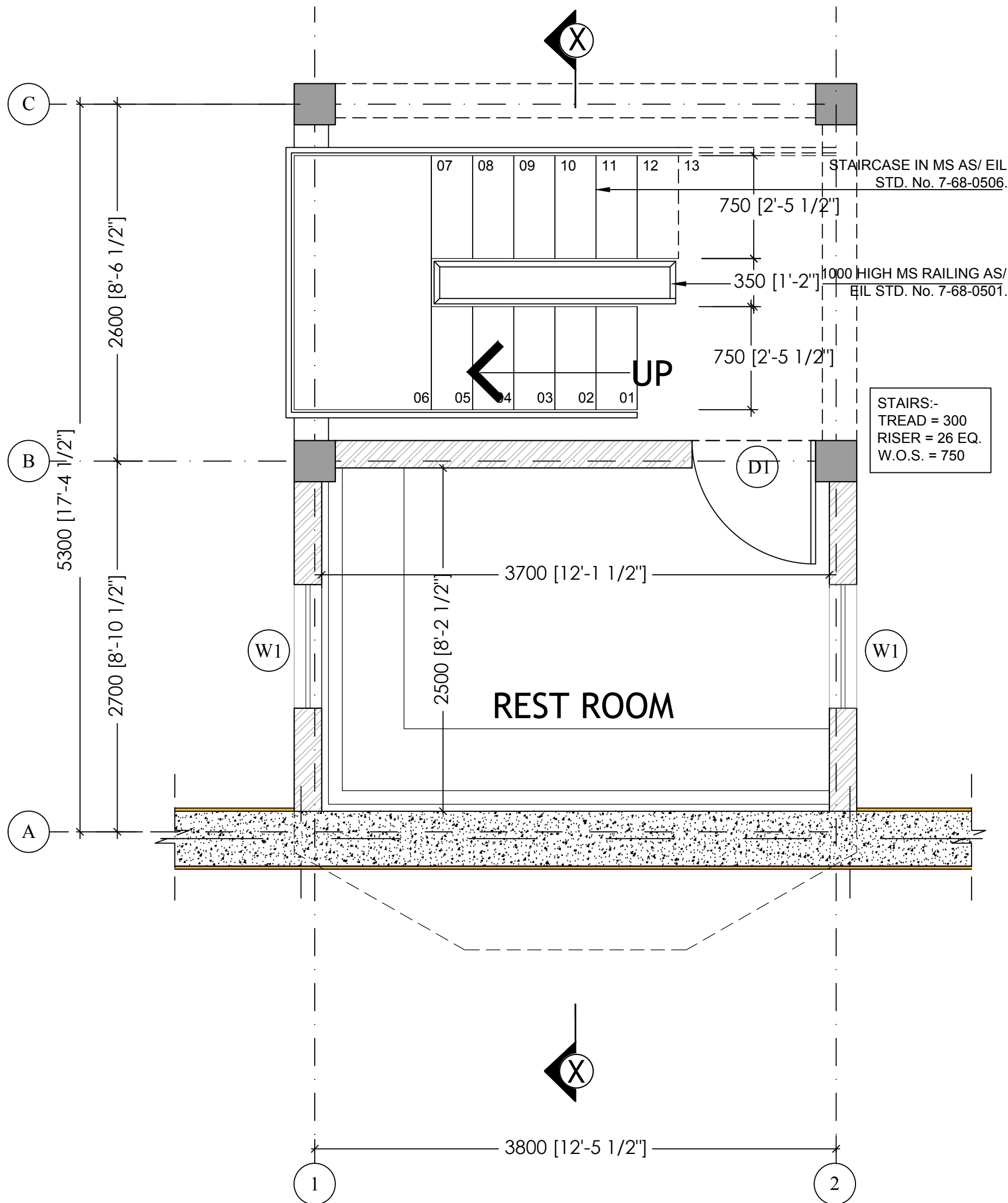
ARCHITECTURAL FINISHES SCHEDULE

ROOM	FLOOR FINISH	WALL FINISH	CEILING FINISH
REST ROOM	KOTA STONE FLOORING	ACRYLIC EMULSION PAINT	ACRYLIC EMULSION PAINT
DECK ROOM	KOTA STONE FLOORING	ACRYLIC EMULSION PAINT	ACRYLIC EMULSION PAINT
EXTERNAL	EXTERNAL EMULSION PAINT		



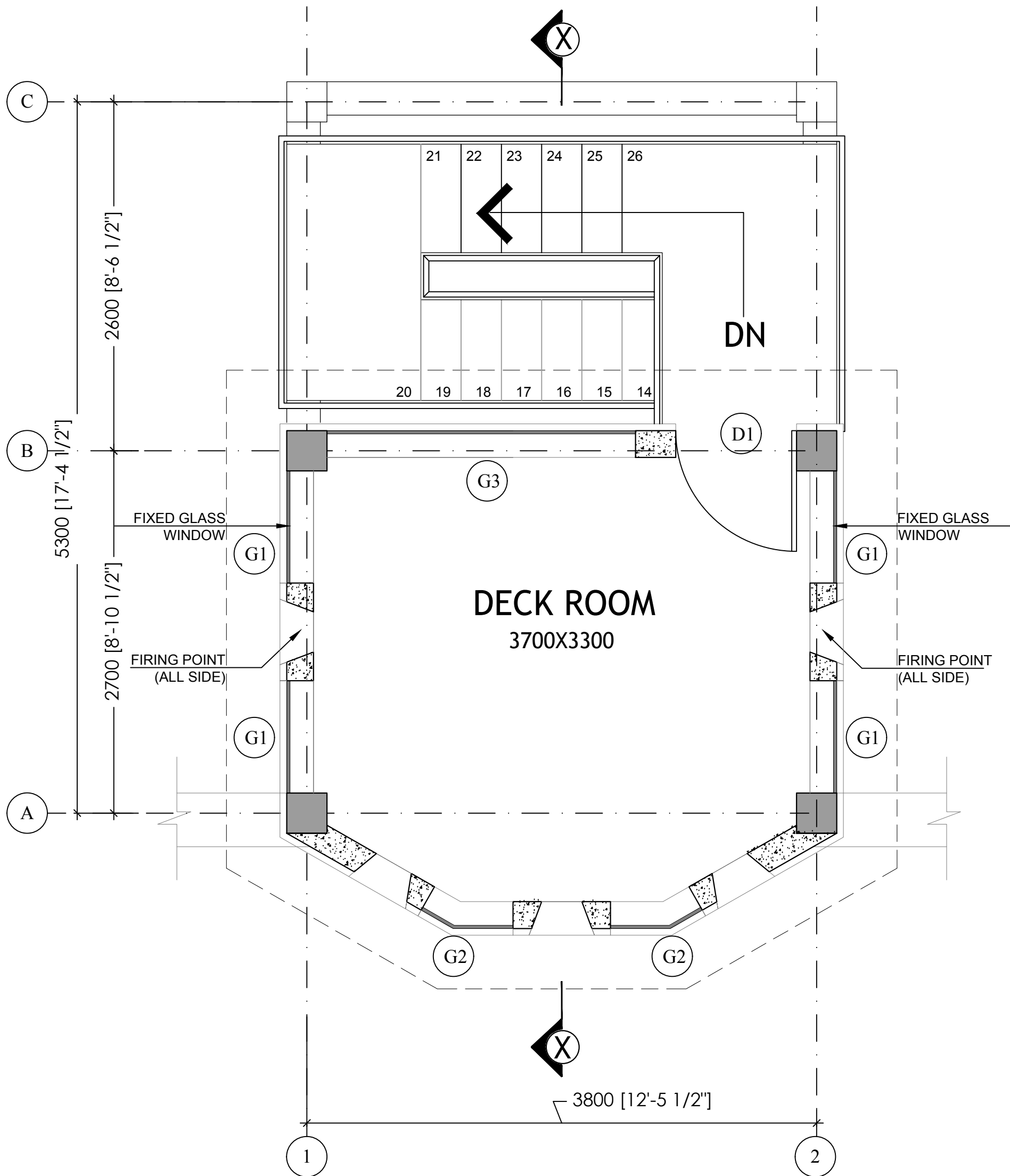
SECTION AT X-X'

SECTION
SCALE 1:30

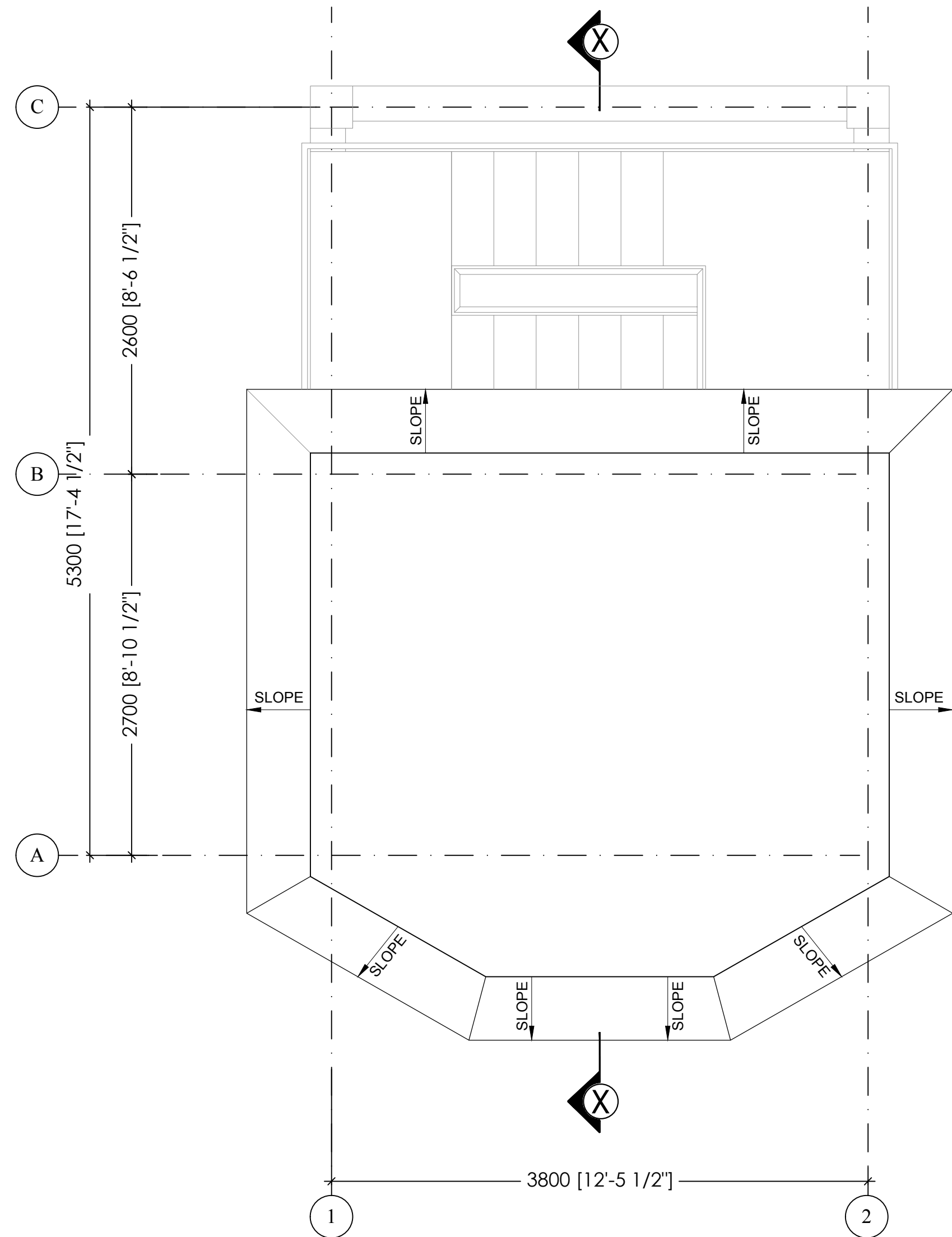


GROUND LEVEL PLAN

FLOOR PLANS
SCALE 1:30



DECK LEVEL PLAN



TERRACE PLAN

REF. DWG. NO.
C098-000-81-46-02301

REFERENCE DRAWING TITLE
WATCH TOWER SECTIONS

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. ALL LEVELS & CO-ORDINATES ARE IN METERS.
3. LEVEL 100.000 CORRESPONDS TO TOP OF APPROACH / ACCESS ROAD NEAR THE BUILDING ENTRY. CROSS REFERENCE TO STRUCTURAL DRAWING SHALL BE MADE.

2	08.05.26	RE-ISSUED FOR CONSTRUCTION	BK	PC	AG/AK
1	02.12.25	RE-ISSUED FOR CONSTRUCTION	BK	PC	AG/AK
0	03.11.25	ISSUED FOR CONSTRUCTION	BK	PC	AG/AK
E	05.06.25	RE-ISSUED FOR APPROVAL	HK	PC	AG/AK
D	02.06.25	ISSUED FOR APPROVAL	HK	PC	AG/AK
C	23.05.25	RE-ISSUED FOR COMMENTS	HK	PC	AG/AK
B	15.05.25	RE-ISSUED FOR COMMENTS	HK	PC	AG/AK
A	15.04.25	ISSUED FOR COMMENTS	HK	PC	AG/AK
REV.	DATE	REVISIONS	BY	CHKD	APPD
					FEMPC

P&C & DETAIL ENGINEERING CONSULTANT

ENGINEERS INDIA LIMITED

(A Govt. of India Undertaking)

CONCEPT ARCHITECT:

DESIGN ASSOCIATES INC. ARCHITECTURE

CLIENT:

श्रीराम जनमभूमि तीर्थ क्षेत्रअयोध्या

SRI RAM JANMBHOOMI TEERTH KSHETRA TRUST

PROJECT:

CONSTRUCTION OF BOUNDARY WALL AROUND TEMPLE COMPLEX AT AYODHYA.

SRI RAM JANMBHOOMI

WATCH TOWER PLAN & ELEVATION

SCALE	JOB NO.	UNIT	DIVN.	DEPT.	DWG. NO.	REV.
	C 01918	0100	811	416	02301	2

3-1641-0500 REV.2 A0-1189 x 841

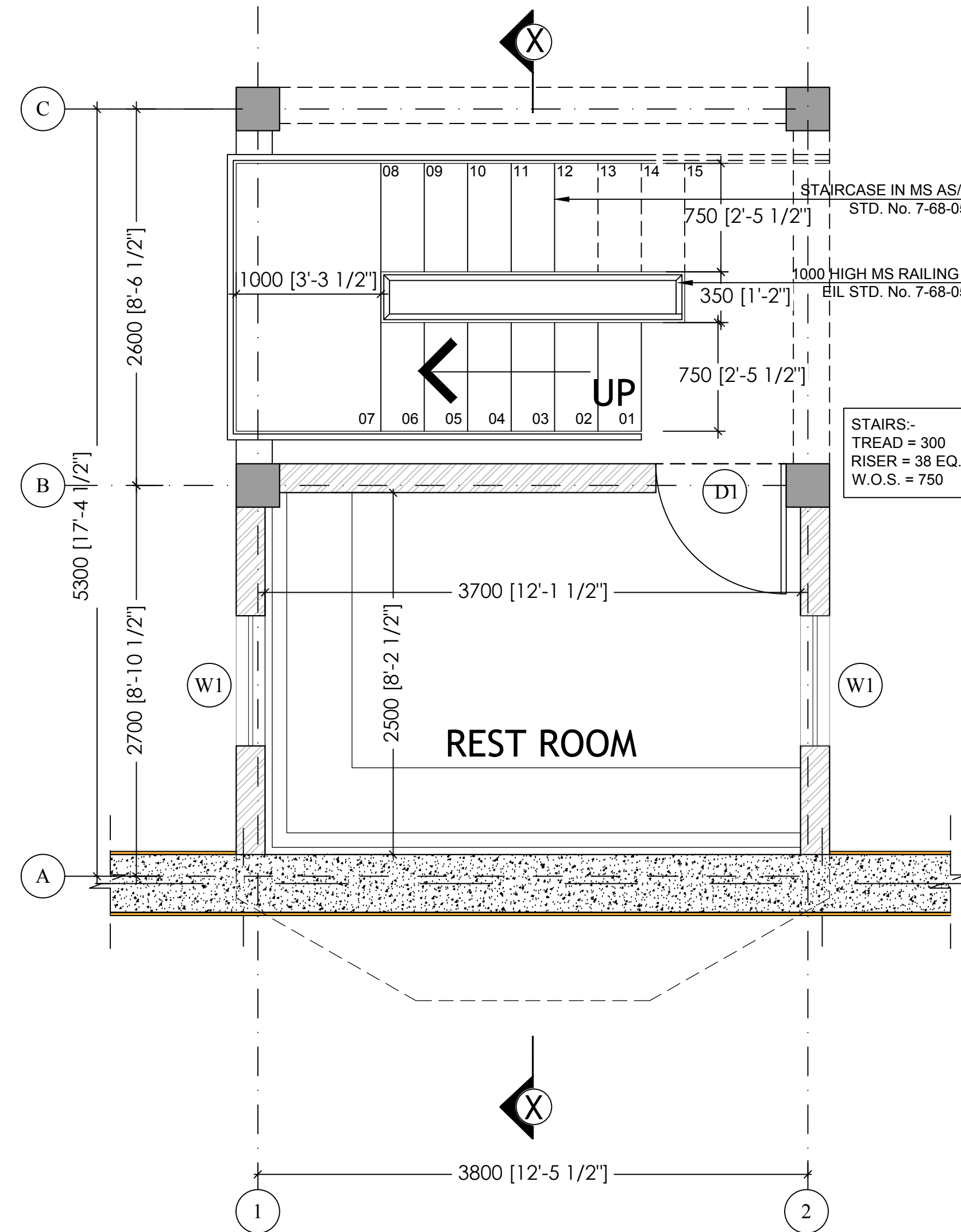
प्रस्तावित आरेख एवं सभी निर्माण विवरण इंजीनियरिंग ड्राइंग स्टैंडार्ड के अनुसार तैयार किए गए हैं। ये मात्र उद्देश्य के लिए हैं और उनका उपयोग केवल निर्माण के लिए ही किया जाना है।
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C098-000-81-46-02304

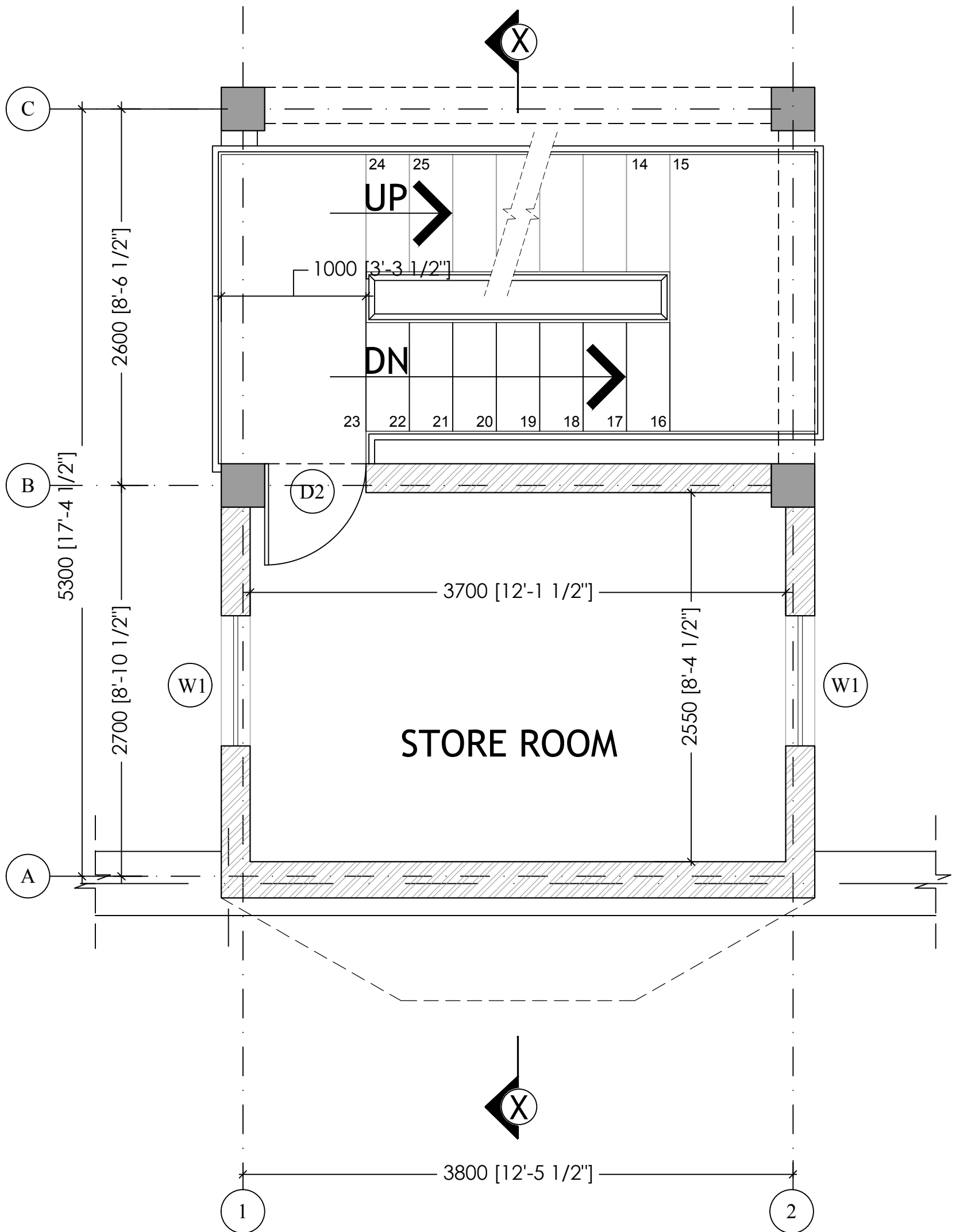
ELEVATIONS SCALE 1:50

SCHEDULE OF DOORS & WINDOWS					
TYPE	OPENING SIZE	FRAME SIZE	LINTEL LEVEL	DESCRIPTION	NOS
D1	900x2130	880x2120	2130	DOOR IN 4 MM THK ACP SHEET WITH POWDER COATED ALUMINIUM FRAME	02
D2	700x2130	680x2120	2130	DOOR IN 4 MM THK ACP SHEET WITH POWDER COATED ALUMINIUM FRAME	01
W1	900x1380	880x1360	2130	3-TRACK SLIDING TYPE ANODISED ALUMINUM GLAZED WINDOW WITH 6MM THK TOUGHENED GLASS & WIRE MESH AS/ SPEC.	04
G1	836x834	816x814	2130	FIXED GLASS WINDOW	04
G2	720x834	700x814	2130	FIXED GLASS WINDOW	02
G3	2300x834	2280x814	2130	3-TRACK SLIDING TYPE ALMN. GLAZED WINDOW POWDER COATED WITH 6 MM THK TOUGHENED GLASS & WIRE MESH AS/ SPEC.	01

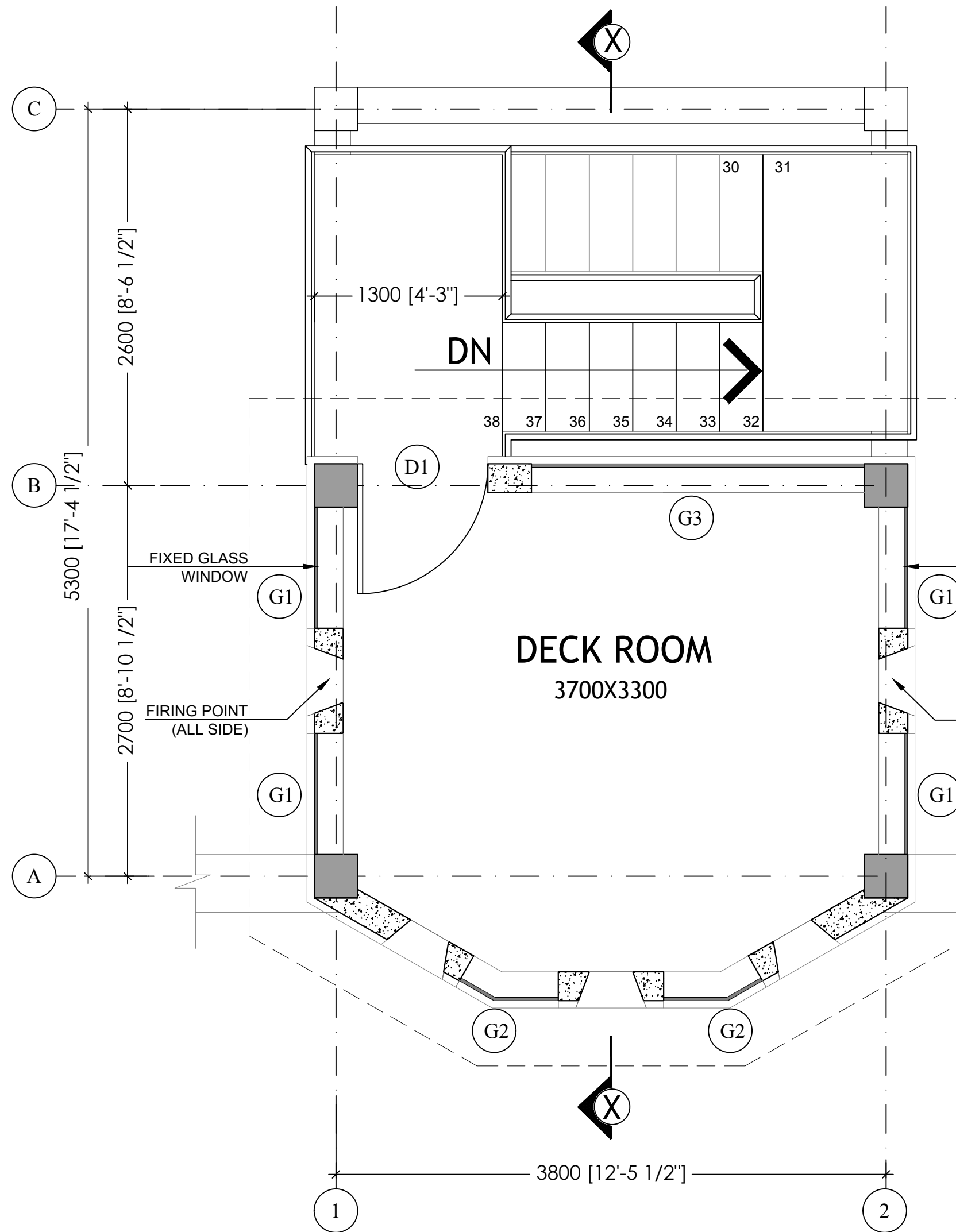
ARCHITECTURAL FINISHES SCHEDULE			
ROOM	FLOOR FINISH	WALL FINISH	CEILING FINISH
REST ROOM	KOTA STONE FLOORING	ACRYLIC EMULSION PAINT	ACRYLIC EMULSION PAINT
STORE ROOM	KOTA STONE FLOORING	ACRYLIC EMULSION PAINT	ACRYLIC EMULSION PAINT
DECK ROOM	KOTA STONE FLOORING	ACRYLIC EMULSION PAINT	ACRYLIC EMULSION PAINT
EXTERNAL	EXTERNAL EMULSION PAINT		



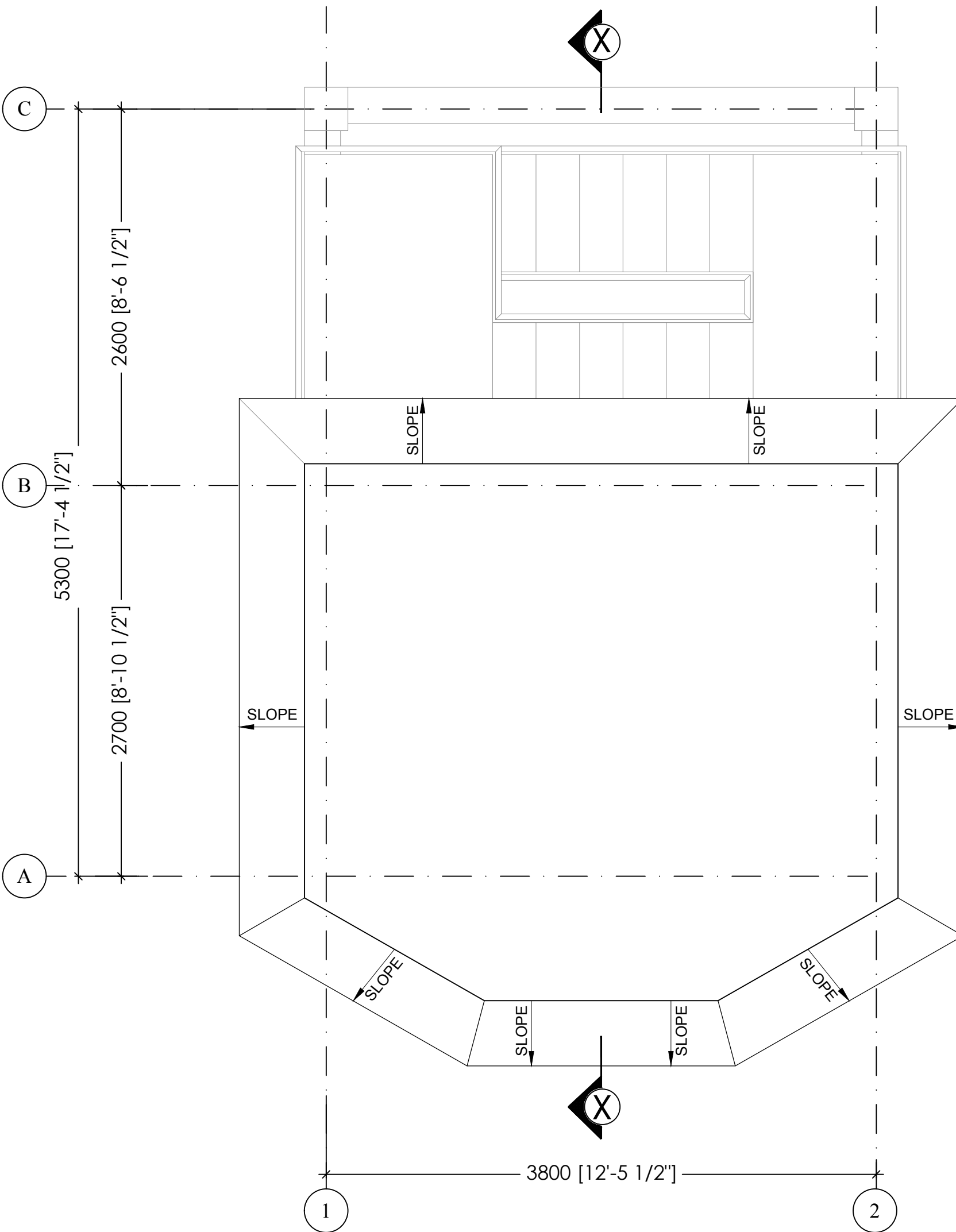
FLOOR PLANS
SCALE 1:30



STORE ROOM LEVEL PLAN



DECK LEVEL PLAN



TERRACE PLAN

SECTION
SCALE 1:30

SECTION AT X-X'

REF. DWG. NO.

REFERENCE DRAWING TITLE

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS.

2. ALL LEVELS & CO-ORDINATES ARE IN METERS.

3. LEVEL 100.000 CORRESPONDS TO TOP OF APPROACH / ACCESS ROAD NEAR THE BUILDING ENTRY. CROSS REFERENCE TO STRUCTURAL DRAWING SHALL BE MADE.

B 08.05.26 ISSUED FOR TENDER

A 13.03.26 ISSUED FOR ENGINEERING

RE: DATE REVISIONS BY CHKD APPD FEMPC

PM&C & DETAIL ENGINEERING CONSULTANT

ENGINEERS INDIA LIMITED

(A Govt. of India Undertaking)

CONCEPT ARCHITECT: DESIGN ASSOCIATES INC. ARCHITECTURE

CLIENT: श्रीराम जनमभूमि तीर्थ क्षेत्रअयोध्या SRI RAM JANMBHOOMI TEERTH KSHETRA TRUST

PROJECT: CONSTRUCTION OF BOUNDARY WALL AROUND TEMPLE COMPLEX AT AYODHYA.

SRI RAM JANMBHOOMI WATCH TOWER (25' HT) PLAN & ELEVATION

SCALE

JOB NO.

UNIT

DIVN.

DEPT.

DWG. NO.

REV.

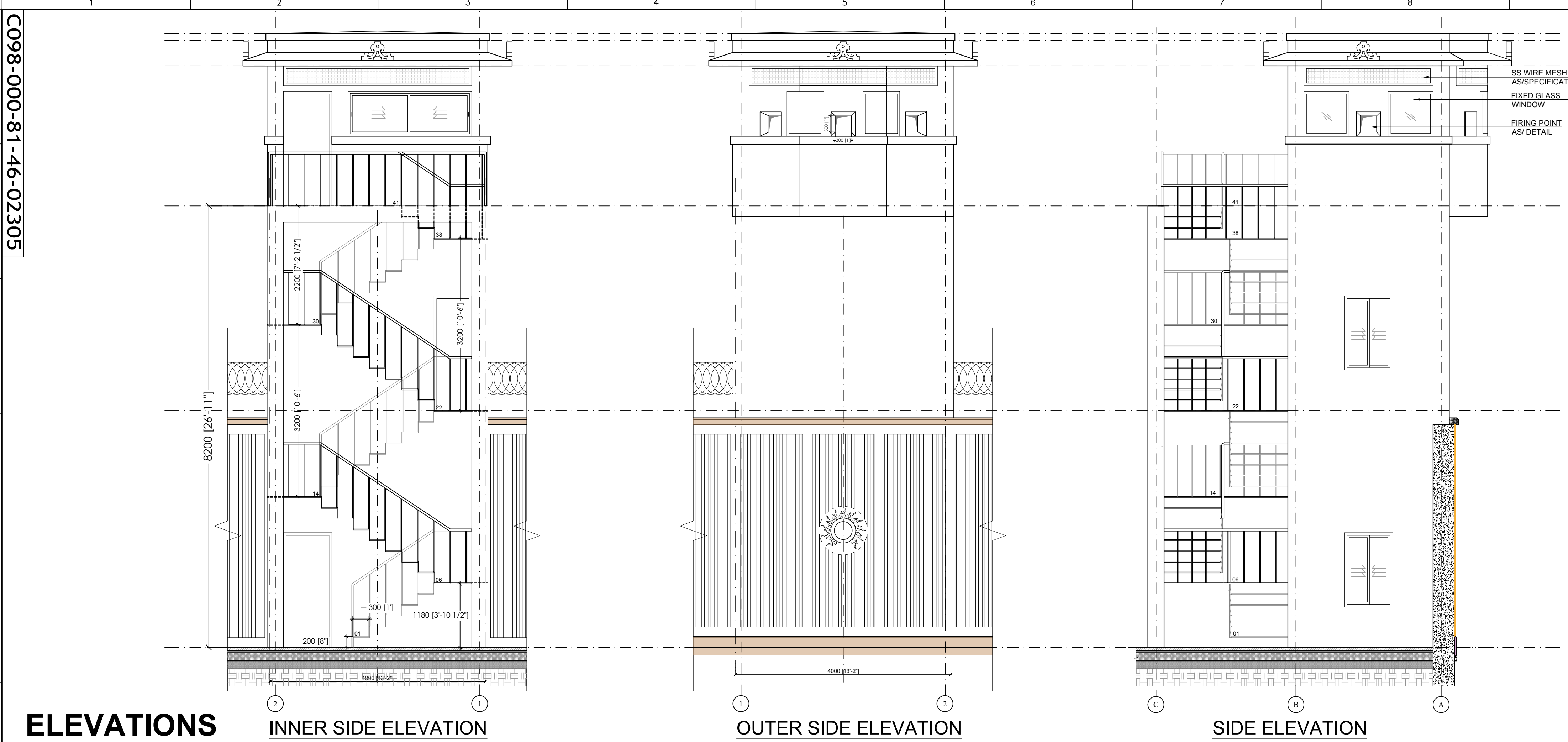
1:30

C 0 9 8 0 0 0 8 1 4 6 0 2 3 0 4 B

15

16

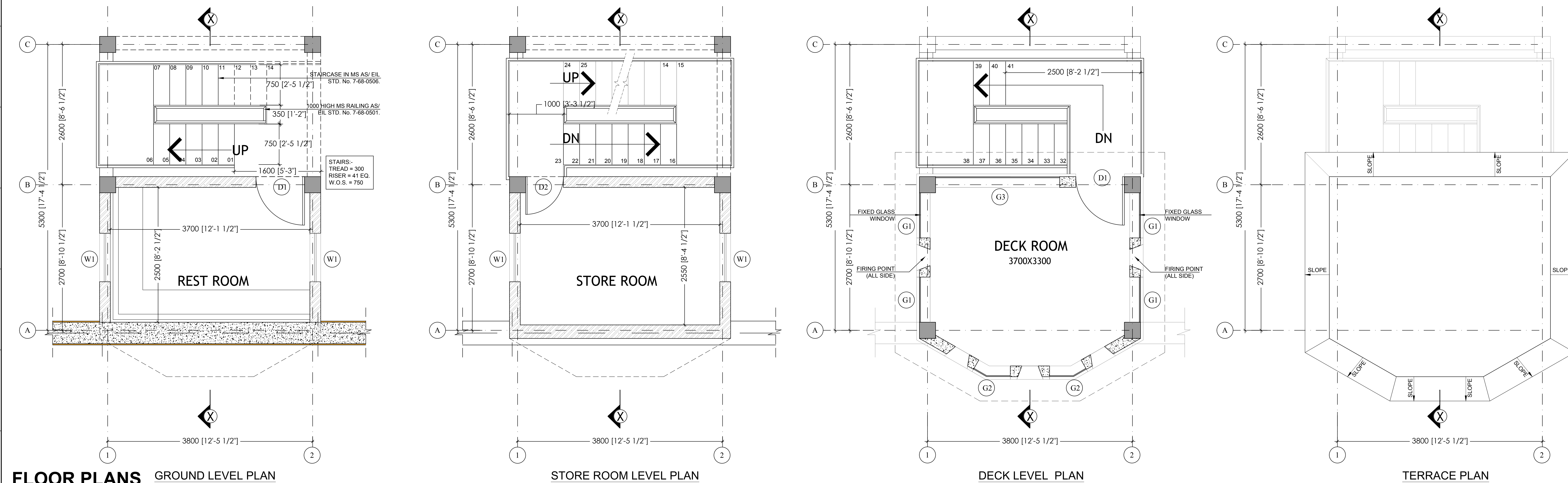
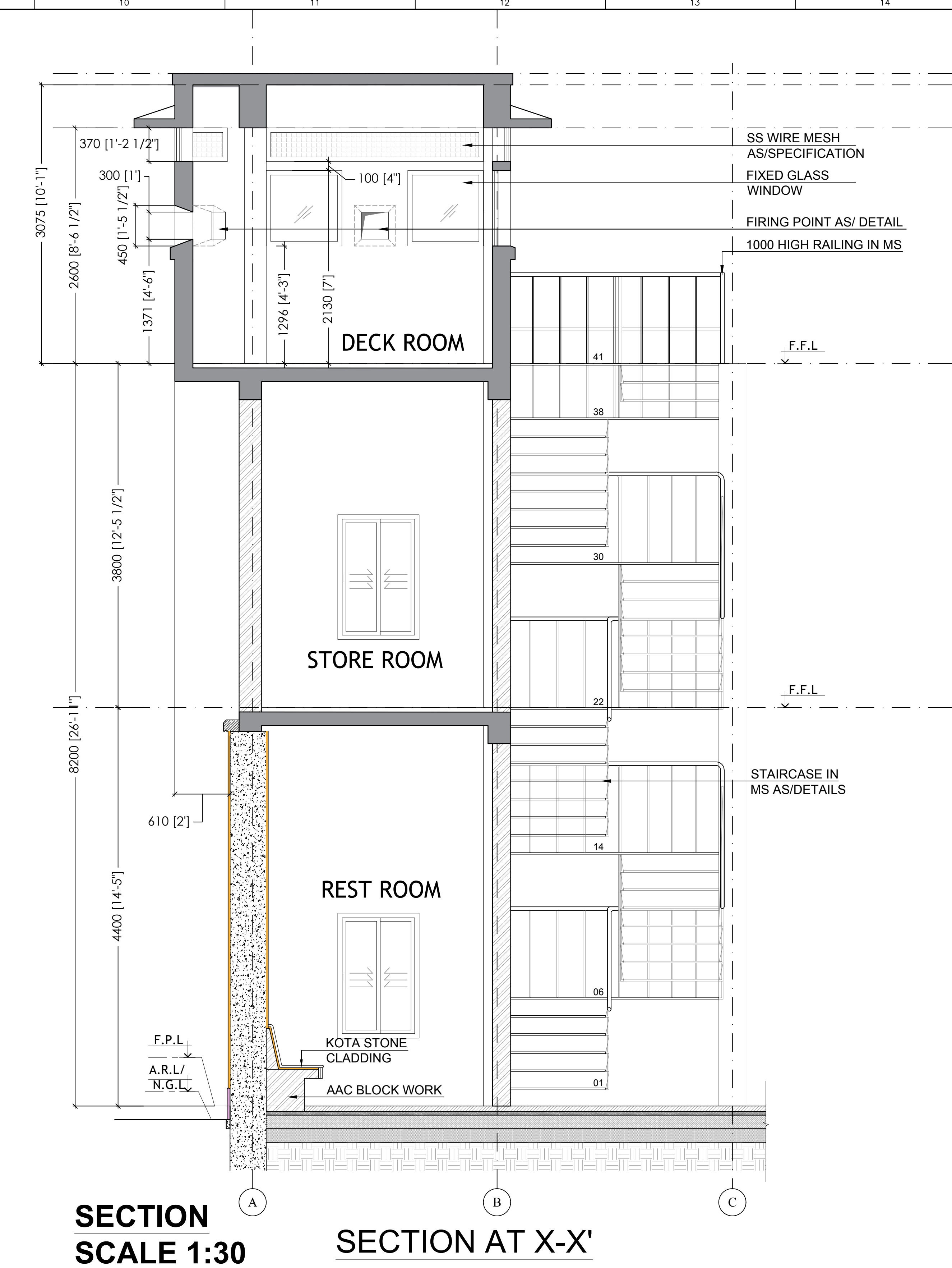
प्रस्तावित आरेख एवं सभी निर्माण विवरण इंजीनियरिंग डिजाइन लिमिटेड की संपत्ति हैं। ये मात्र उद्देश्य के लिए हैं और अनुमति के बिना किसी भी प्रकार से प्रतिलिपि नहीं बनाई जा सकती। नक्शे को बदलना, नक्शा बनाना, नक्शा बनाने के लिए या अन्य किसी भी उद्देश्य के लिए प्रयोग के अलावा इसका कोई भी अधिकार नहीं है।
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ELEVATIONS
SCALE 1:50

SCHEDULE OF DOORS & WINDOWS					
TYPE	OPENING SIZE	FRAME SIZE	LINTEL LEVEL	DESCRIPTION	NOS
D1	900x2130	880x2120	2130	DOOR IN 4 MM THK ACP SHEET WITH POWDER COATED ALUMINIUM FRAME	02
D2	700x2130	680x2120	2130	DOOR IN 4 MM THK ACP SHEET WITH POWDER COATED ALUMINIUM FRAME	01
W1	900x1380	880x1360	2130	3-TRACK SLIDING TYPE ANODISED ALUMINUM GLAZED WINDOW WITH 6MM THK TOUGHENED GLASS & WIRE MESH AS/ SPEC.	04
G1	836x834	816x814	2130	FIXED GLASS WINDOW, FIXED TYPE	04
G2	720x834	700x814	2130	FIXED GLASS WINDOW, FIXED TYPE	02
G3	2300x834	2280x814	2130	3-TRACK SLIDING TYPE ALMN. GLAZED WINDOW POWDER COATED WITH 6 MM THK TOUGHENED GLASS & WIRE MESH AS/ SPEC.	01

ARCHITECTURAL FINISHES SCHEDULE			
ROOM	FLOOR FINISH	WALL FINISH	CEILING FINISH
REST ROOM	KOTA STONE FLOORING	ACRYLIC EMULSION PAINT	ACRYLIC EMULSION PAINT
STORE ROOM	KOTA STONE FLOORING	ACRYLIC EMULSION PAINT	ACRYLIC EMULSION PAINT
DECK ROOM	KOTA STONE FLOORING	ACRYLIC EMULSION PAINT	ACRYLIC EMULSION PAINT
EXTERNAL	EXTERNAL EMULSION PAINT		



FLOOR PLANS
SCALE 1:30

REF. DWG. NO.REFERENCE DRAWING TITLE

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. ALL LEVELS & CO-ORDINATES ARE IN METERS.
3. LEVEL 100.000 CORRESPONDS TO TOP OF APPROACH / ACCESS ROAD NEAR THE BUILDING ENTRY. CROSS REFERENCE TO STRUCTURAL DRAWING SHALL BE MADE.

B 08.05.26 ISSUED FOR TENDER
A 13.03.26 ISSUED FOR ENGINEERING

BK PC AG/AK
BK PC AG/AK

RE DATE REVISIONS
BY CHKD APPD FEMPC

CONCEPT ARCHITECT:
ENGINEERS INDIA LIMITED
(A Govt. of India Undertaking)

CLIENT:
श्रीराम जनमभूमि तीर्थ क्षेत्र अयोध्या
SRI RAM JANMBHOOMI TEERTH KSHETRA TRUST

PROJECT:
CONSTRUCTION OF BOUNDARY WALL AROUND TEMPLE COMPLEX AT AYODHYA.

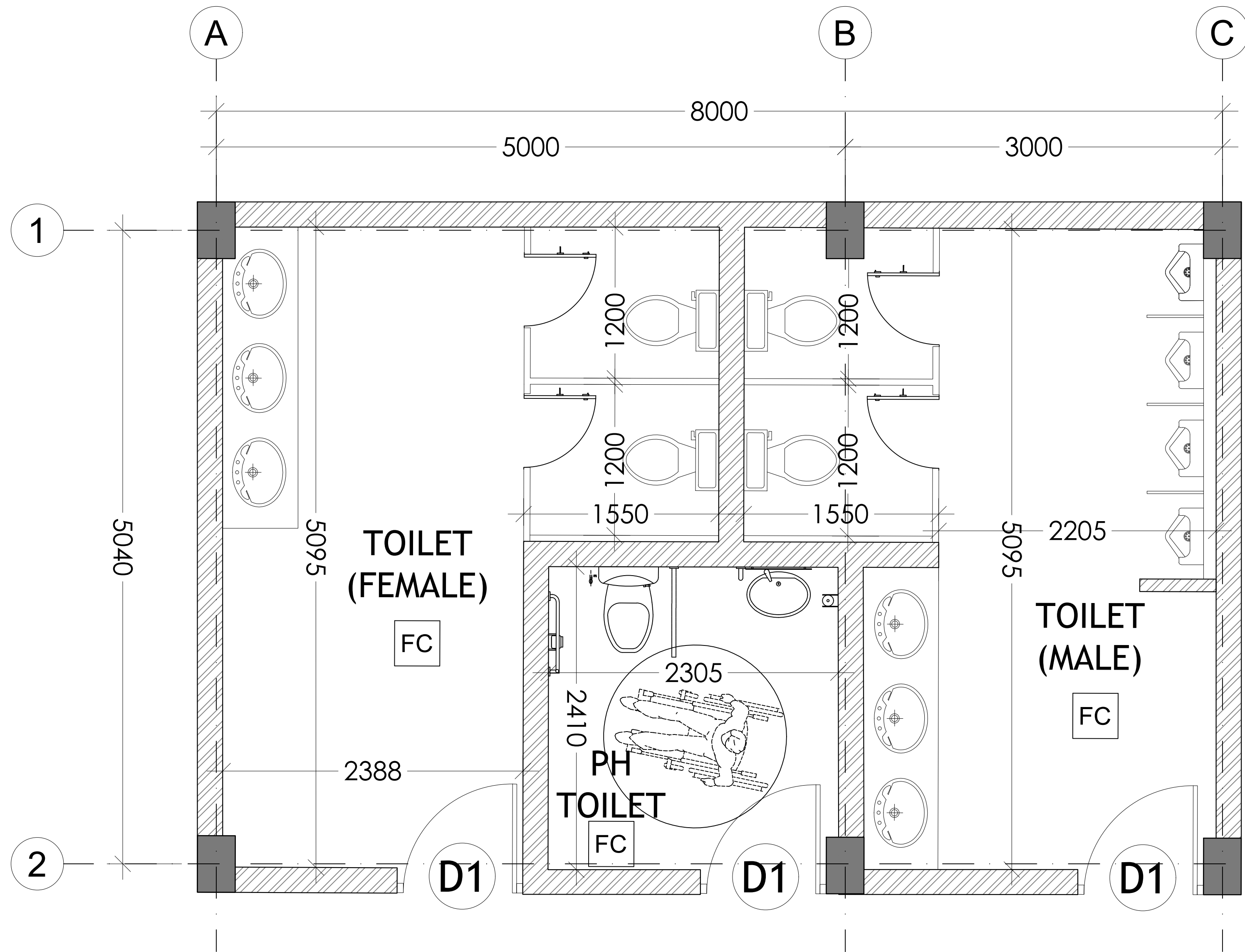
SRI RAM JANMBHOOMI
WATCH TOWER (27' HT) PLAN & ELEVATION

SCALE 1:30
JOB NO. C01918
UNIT 0008
DIVN. 01
DEPT. 02
DWG. NO. 02305
REV. B

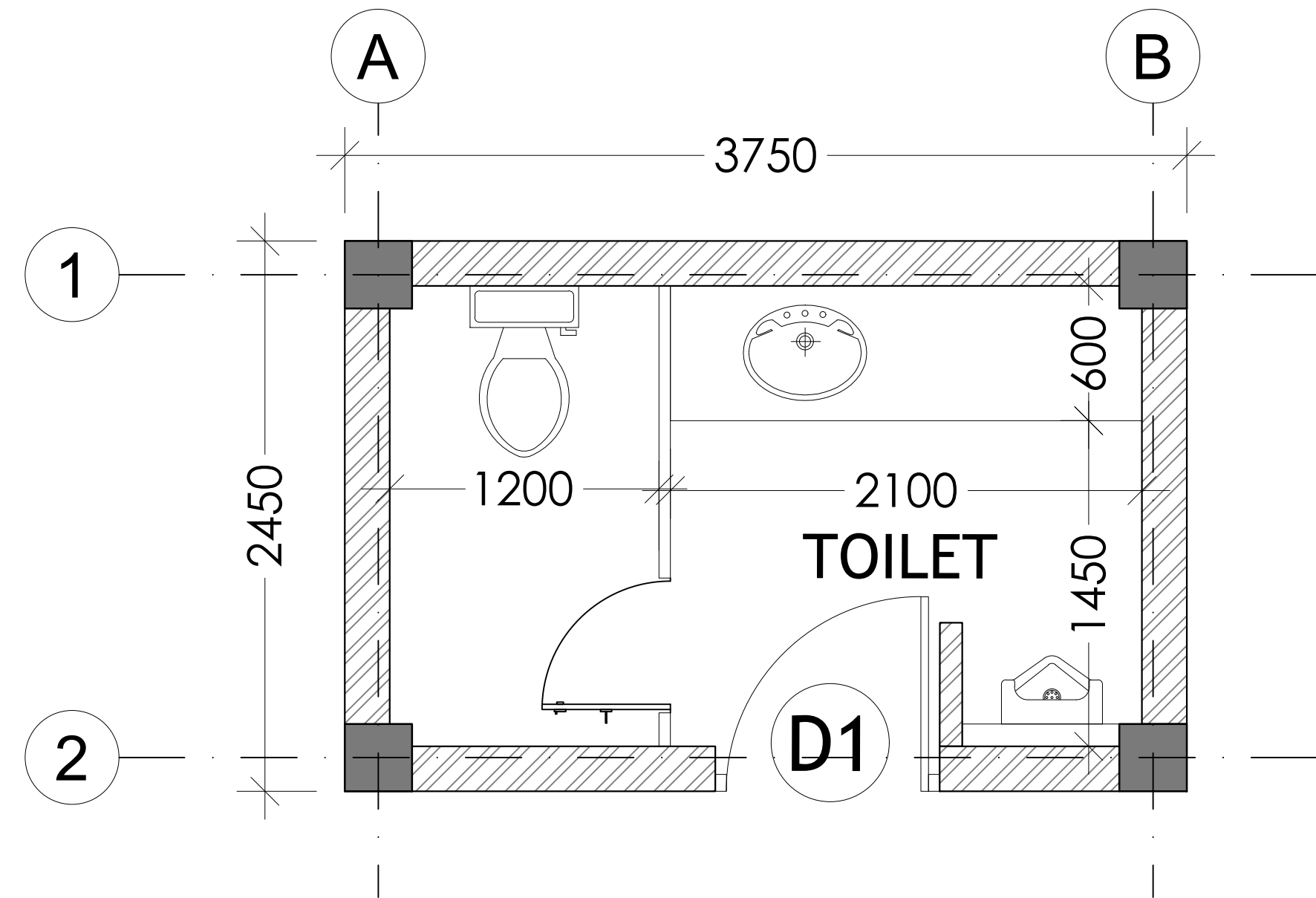
3-1641-0500 REV.2 A0-1189 x 841

प्रस्तुत आरेख एवं सभी निर्माण विवरण इंजीनियरों द्वारा तैयार किए गए हैं। ये मात्र उद्देश्य के लिए हैं और उनका उपयोग किसी भी प्रकार के निर्माण के लिए नहीं किया जाना चाहिए।
उत्तर दिए जाते हैं, न प्रमाणित किए जाते हैं और न ही सीमित और न ही पूर्ण रूप से।
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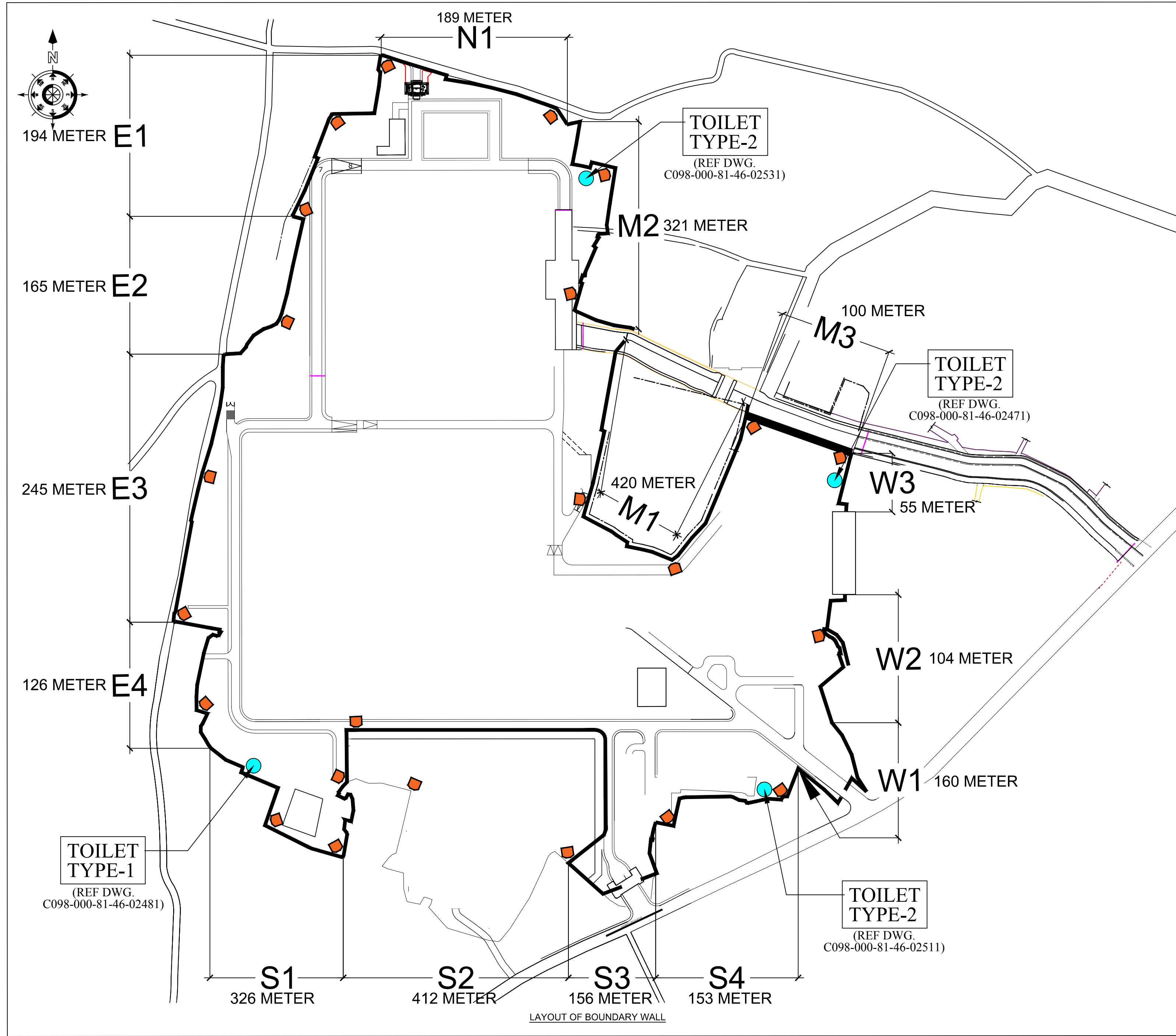
C098-000-81-46-02306



TOILET TYPE-1
(SCALE 1:25)



TOILET TYPE-2
(SCALE 1:25)



KEY PLAN
(N.T.S.)

REF. DWG. NO.	REFERENCE DRAWING TITLE
C098-000-81-46-02400	KEY PLAN
C098-000-81-46-02471	BOUNDARY WALL SEGMENT W3
C098-000-81-46-02481	BOUNDARY WALL SEGMENT S1
C098-000-81-46-02511	BOUNDARY WALL SEGMENT S4
C098-000-81-46-02531	BOUNDARY WALL SEGMENT M2

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS.
- ALL LEVELS & CO-ORDINATES ARE IN METERS.
- LEVEL 100.000 CORRESPONDS TO TOP OF APPROACH / ACCESS ROAD NEAR THE BUILDING ENTRY. CROSS REFERENCE TO STRUCTURAL DRAWING SHALL BE MADE.
- FINISH LEVEL OF THE BUILDING SHALL BE SAME THROUGHOUT UNLESS SPECIFICALLY INDICATED.
- LOCATION/ORIENTATION/CO-ORDINATES OF THE BUILDING SHALL BE CROSS-CHECKED WITH STRUCTURAL AND GENERAL CIVIL DRAWINGS. IN CASE OF ANY MISMATCH THE SAME SHALL BE GOT RESOLVED BEFORE CONSTRUCTION.
- DRAWING IS NOT TO BE SCALED FOR ANY MISSING DIMENSION.
- IN CASE OF ANY CONFLICT WITH TENDER/PACKAGE, THE SAME SHALL BE GOT RESOLVED BEFORE PROCUREMENT AND EXECUTION.
- TILES IN FLOORING TO BE Laid WITH PROPER JOINT WITHOUT ANY GAP.
- VITRIFIED TILE/GRANITE IN DADO WORK TO BE PROVIDED WITH 3MM SPACER & EPOXY GRANT FILLING.
- FINISHED FLOOR LEVEL OF WC, DRINKING WATER SHALL BE 12MM LESS THAN ADJOINING AREAS AND SHALL HAVE PROPER SLOPE FOR FLOOR DRAINAGE.
- INTERNAL PARTITION WALLS OF WC/BATH CURBICLE SHALL BE 250MM HIGH FROM FLOOR LEVEL.
- ALL OTHER WALLS SHALL BE UP TO ROOF/ROOF BEAM IF NOT SPECIFICALLY INDICATED.

REV.	DATE	ISSUED FOR ENGINEERING	BK	PC	AG/AK
		REVISIONS	BY	CHKD	APPD

PM&C & DETAIL ENGINEERING CONSULTANT:
ENGINEERS INDIA LIMITED
(A Govt. of India Undertaking)

CONCEPT ARCHITECT:
DESIGN ASSOCIATES INC.
ARCHITECTURE

CLIENT:
श्रीराम जनमभूमि तीर्थ क्षेत्रअयोध्या
SRI RAM JANMBHOOMI TEERTH KSHETRA TRUST

PROJECT:
CONSTRUCTION OF BOUNDARY WALL AROUND TEMPLE COMPLEX AT AYODHYA.

SRI RAM JANMBHOOMI
BOUNDARY WALL - TOILET DETAIL

SCALE	JOB NO.	UNIT	DIVN.	DEPT.	DWG. NO.	REV.
1:25	C098-000-81-46-02306	000	000	000	000	000

Sr No	Supplier Name	City	Phone	E-Mail	Remarks
Department : ARCHITECTURE					
Area of Experience: Other					
Item : 1.1 FLOOR FINISHING - CERAMIC TILES					
1	APARNA ENTERPRISES LIMITED	Hyderabad	, , NA	NA	BRAND NAME-VITERO
2	ASIAN GRANITO INDIA LIMITED	MATHURA	, ,		BRAND NAME-ASIAN
3	CERA SANITARYWARE LTD.	NEW DELHI	, ,	NA	BRAND NAME- CERA
4	H&R JOHNSON LIMITED	MUMBAI	, ,		BRAND NAME-JOHNSON
5	KAJARIA CERAMICS LIMITED	DELHI	, ,		BRAND NAME-KAJARIA
6	MURUDESHWAR CERAMICS LIMITED	HUBLI	, ,	"	BRAND NAME-NAVEEN
7	NITCO LIMITED	Mumbai	" , ,	"	BRAND NAME-NITCO
8	ORIENT BELL CERAMICS & INDUSTRIES LTD.	DELHI	, ,		BRAND NAME-ORIENT
9	REGENCY CERAMICS LIMITED	HYDERABAD	, ,		BRAND NAME-REGENCY
10	SPL LIMITED	DELHI	, ,		BRAND NAME-SOMANY
11	VARMORA GRANITO PVT. LTD.	MUMBAI	, ,		BRAND NAME-VARMORA
Item : 1.2 FLOOR FINISHING - VITRIFIED TILES					
1	APARNA ENTERPRISES LIMITED	Hyderabad	066048050052 , , NA	NA	BRAND NAME-VITERO
2	ASIAN GRANITO INDIA LIMITED	MATHURA	, ,		BRAND NAME-ASIAN
3	CERA SANITARYWARE LTD.	NEW DELHI	, ,	NA	BRAND NAME- CERA
4	EURO CERAMICS LIMITED	MUMBAI	, ,		BRAND NAME-EURO
5	H&R JOHNSON(I) LIMITED	MUMBAI	, ,		BRAND NAME-JOHNSON
6	KAJARIA CERAMICS LIMITED	DELHI	, ,		BRAND NAME-KERROGRES
7	MURUDESHWAR CERAMICS LTD.	HUBLI	, ,		BRAND NAME-NAVEEN
8	NITCO LIMITED	Mumbai	" , ,	"	BRAND NAME--NITCO
9	ORIENT BELL CERAMICS & INDUSTRIES LTD.	DELHI	, ,		BRAND NAME-ORIENT
10	PAVIT CERAMICS PVT LTD	AHMEDABAD	, ,	NA	BRAND NAME- PAVIT
11	RAK CERAMICS INDIA PVT. LTD.	MUMBAI	, ,		
12	REGENCY CERAMICS LIMITED	HYDERABAD	, ,		BRAND NAME-REGENCY
13	REGENT GRANITO INDIA LTD.	GUJARAT	, ,		BRAND NAME-REGENT
14	SPL LIMITED	DELHI	, ,		BRAND NAME-SOMANY
15	VARMORA GRANITO PVT. LTD.	MUMBAI	, ,		BRAND NAME-VARMORA
Item : 1.3 FLOOR FINISHING - ACID RESISTANT TILES					
1	H & R JOHNSON(I) LTD.	MUMBAI	, ,		BRAND NAME-ENDURA
2	REGENCY CERAMICS LIMITED	HYDERABAD	, ,		BRAND NAME-REGENCY
Item : 1.4 FLOOR FINISHING - PVC TILES/ROLLS					

Sr No	Supplier Name	City	Phone	E-Mail	Remarks
1	ALL MANUFACTURE'S LISTED BY BIS UNDER IS 3462		, ,		
Item : 1.5 FLOOR FINISHING - PVC TILES/ROLLS(ANTI STATIC)					
1	ARMSTRONG WORLD INDUSTRIES INDIA (P) LTD	MUMBAI	, ,		BRAND NAME-SOLIDLG1
2	PREMIER POLYFILM LTD.	DELHI	, ,		BRAND NAME-ANSTAT
Item : 1.6 FLOOR FINISHING - EPOXY COATING					
1	APURVA INDIA LIMITED	MUMBAI	, ,		
2	BASF CONSTRUCTION CHEMICALS (I) PVT.LIMITED	DELHI	, ,		BRAND NAME-MASTERTOP-1200 SERIES
3	BUILDTECH PRODUCTS(I) PVT LIMITED	DELHI	, ,		BRAND NAME-BUILDPOXY-SL
4	CICO TECHNOLOGIES	DELHI	, ,		BRAND NAME-CICO POXY TC 200
5	CIPY POLYURETHANES PVT.LIMITED	PUNE	, ,		BRAND NAME-CIPOXY SL 1000
6	FOSROC CHEMICALS (INDIA) PVT LTD	BANGALORE	+91 8042521900, ,	enquiry.india@fosroc.com	BRAND NAME-NITOFLOOR SL 2000/1000
7	LEADING EDGE INDUSTRIAL CORPORATION	NAGPUR	, , 066048050052	NA	BRAND NAME: 1. COROGUARD-KRAYON MAKE 2. KRAYON
8	PIDILITE INDUSTRIES LIMITED	New Delhi	, ,	NA	BRAND NAME-DR. FIXIT PIDIPOXY ESL
9	SIKA	KOLKATA	, ,		BRAND NAME-SIKA FLOOR
10	STP LIMITED	NEW DELHI	, ,		
11	SUNANDA SPECIALITY COATING PVT LTD	MUMBAI	, ,		BRAND NAME- SUNEPOXY-SL (Epoxy Coating)
12	SYNORGANIC PAINTS PVT LTD	Bhilai	, ,		BRAND NAME-INDUSCOAT EP COVER 100
Item : 1.7 FLOOR FINISHING - FLOOR HARDENER					
1	CHOKSEY CHEMICALS	MUMBAI	, ,		BRAND NAME-TECHFLOOR HT-200
2	CICO TECHNOLOGIES LTD.	DELHI	, ,		BRAND NAME-CICO SURFACE HARDENER
3	SAMROCK CHEMICALS (I) LTD.	AHMEDABAD	, ,		BRAND NAME-SAMHARD STD
4	STP LIMITED	NEW DELHI	, ,		
Item : 2.1 WOODWORK - BLOCK BOARD/FLUSH DOOR					
1	ALL MANUFACTURER'S LISTED BY BIS UNDER IS:2202		, ,		
Item : 2.2 WOODWORK - PLYWOOD					

Sr No	Supplier Name	City	Phone	E-Mail	Remarks
1	ALL MANUFACTURER'S LISTED BY BIS UNDER IS:303	--	, ,		
Item : 2.3 WOODWORK - LAMINATES					
1	ALL MANUFACTURER'S LISTED BY BIS UNDER IS:2046		, ,		
Item : 2.4 WOODWORK - MDF BOARDS					
1	ALL MANUFACTURER'S LISTED BY BIS UNDER IS:12406	--	, ,		
Item : 2.5 WOODWORK - PARTICLE BOARD (Plain / Veneered / Pre-Laminated)					
1	ALL MANUFACTURER'S LISTED BY BIS UNDER IS:3087,IS:3097 & IS:12823(GRADE 1& 2)	--	, ,		
Item : 3.1 DOORS/ WINDOWS/ VENTILATORS - PRESSED STEEL					
1	DHIMAN STEEL	DELHI	, ,		
2	PAULSON INDUSTRIES	ERNAKULAM	, ,	NA	BRAND NAME- PAULSON INDUSTRIES
3	SHAKTI HORMANN PVT. LTD.	MEDCHAL MALKAGIRI	, ,	NA	BRAND NAME- SHAKTI HORMANN
4	SKS STEEL IND.	DELHI	066048050052		
5	SUPER STEEL WINDOWS CO.	DELHI	, ,		
6	SUPREME METWOOD PVT LTD	Faridabad	, ,	NA	BRAND NAME-SUPREME METWOOD
Item : 3.2 ALUMINIUM EXTRUSION PROFILES FOR DOORS, WINDOWS AND VENTILATORS					
1	HINDALCO	MUMBAI	, ,		
2	JINDAL ALUMINIUM LTD.	BANGALORE	, ,		
3	OMALCO EXTRUSION (P) LTD	NEW DELHI	, ,	NA	BRAND NAME- OMALCO
Item : 3.3 DOORS/ WINDOWS/ VENTILATORS - FIRE RATED					
1	BHAWANI FIRE PROTECTION PRIVATE LIMITED	GHAZIABAD	, ,	NA	BRAND NAME- BHAWANI FIRE
2	GALAXY FIRE PROTECTION COMPANY	DELHI	, ,	"	BRAND NAME-FIRE CHECK
3	MPP TECHNOLOGIES PVT. LTD.	BANGALORE	, ,		
4	NAVAIR INTERNATIONAL LTD.	DELHI	, ,		
5	PACIFIC FIRE CONTROLS PRIVATE LIMITED	New Delhi	, ,	NA	BRAND NAME-PACIFIC
6	PAULSON INDUSTRIES	ERNAKULAM	, ,	NA	BRAND NAME- PAULSON INDUSTRIES
7	SHAKTI HORMANN PVT. LTD.	MEDCHAL MALKAGIRI	, ,	NA	BRAND NAME- SHAKTI HORMANN

Sr No	Supplier Name	City	Phone	E-Mail	Remarks
8	SUPER STEEL WINDOWS CO.	DELHI	, ,		
9	SUPREME METWOOD PVT LTD	Faridabad	, ,	NA	BRAND NAME-SUPREME METWOOD
Item : 4.1 DOORS / WINDOWS FITTINGS - MORTICE LOCKS WITH HANDLES					
1	EVERITE AGENCIES (P) LTD.	DELHI	, ,		BRAND NAME-EVERITE
2	GODREJ & BOYCE	INDIA	, ,		BRAND NAME-GODREJ
3	GOLDEN INDUSTRIES	DELHI	, ,		BRAND NAME-GOLDEN
Item : 4.2 DOORS / WINDOWS FITTINGS - HYDRAULIC DOOR CLOSER (Overhead / Floor Mounted)					
1	ALL MANUFACTURER'S LISTED BY BIS UNDER IS:3564 FOR OVERHEAD TYPE & IS:6315 FOR FLOOR MOUNTED TYPE	--	, ,		
Item : 4.3 DOORS/ WINDOWS FITTINGS - MISC. DOOR FITTINGS e.g. Hinges, Tower Bolts, Latches, Stoppers etc					
1	ALL MANUFACTURER'S LISTED BY BIS UNDER IS:204 FOR TOWER BOLTS, IS 2681 FOR ALDROP,IS:1823 FOR STOPPE		, ,		
Item : 5.1 ROOF TREATMENT & WATERPROOFING - P.U. BASED (ONE COMPONENT)					
1	ASIAN PAINTS LIMITED	MUMBAI	, ,	NA	BRAND NAME-ASIAN PAINTS SMARTCARE PU MAGNUM
2	BASF CONSTRUCTION CHEMICAL (I) PVT. LTD.	DELHI	, ,		BRAND NAME-SONOSHIELD/ MASTERSEAL HLM 5000R
3	BERGER PAINTS INDIA LIMITED	New Delhi	, ,	NA	BRAND NAME-HOMESHIELD ELASTOSEAL NON UV 1K
4	CHRYSO INDIA PRIVATE LIMITED	NAVI MUMBAI	022 2768 5991, ,	info.india@chryso.com	BRAND NAME-CHRYSO ELASTOTHANE
5	CICO TECHNOLOGIES LTD.	DELHI	, ,		BRAND NAME-CORCHEM 2061
6	FOSROC CHEMICALS (INDIA) PVT LTD	BANGALORE	+91 8042521900, ,	enquiry.india@fosroc.com	BRAND NAME-NITOPROOF 600 PF
7	LLOYD INSULATIONS (I) LTD.	DELHI	, ,		BRAND NAME-ISOTHANE EMA
8	MAPEI CONSTRUCTION PRODUCTS INDIA PVT LTD	BANGALORE	, ,	"	BRAND NAME- PURTOP ONE IN
9	MYK ARMENT PVT LTD	HYDERABAD	, ,	"	BRAND NAME-AQUAARM SPU-SPL
10	PIDILITE INDUSTRIES LIMITED	New Delhi	, ,	NA	BRAND NAME- DR. FIXIT FLEXI PU 270 (I)
11	STP LIMITED	NEW DELHI	, ,		

Sr No	Supplier Name	City	Phone	E-Mail	Remarks
12	SUNANDA SPECIALITY COATING PVT LTD	MUMBAI	, ,		BRAND NAME- FLEXIROOF PU/ SUNROOF PU - One component PU based waterproofing
13	SUPREME BITUCHEM INDIA PVT.LTD	NAGAPUR	, ,		
14	TECHNONICOL INDIA PVT LTD	MUMBAI	, ,	"	BRAND NAME-TECHNONICOL ULTRATHANE
Item : 5.2 ROOF TREATMENT & WATERPROOFING - P.U. BASED (TWO COMPONENT)					
1	BUILDTECH PRODUCTS INDIA PVT. LTD.	DELHI	, ,		BRAND NAME-BUILDTHENE IC
2	FOSROC CHEMICALS (INDIA) PVT LTD	BANGALORE	+91 8042521900, ,	enquiry.india@fosroc.com	BRAND NAME-BRUSHBOND
3	INDUSTRIAL PRODUCT MFG. CO.	PUNE	, ,		BRAND NAME-EZECOAT
4	SHIVALIK AGRO POLY PRODUCTS LTD.	DELHI	, ,		BRAND NAME-SHIVABOND 903
5	SIKA	KOLKATA	, ,		BRAND NAME-SIKALASTIC 450H
6	STP LIMITED	NEW DELHI	, ,		
Item : 5.3 ROOF TREATMENT & WATERPROOFING - APP MEMBRANE					
1	A.R. Industries	Vadodara	, , 066048050052	-	BRAND NAME- BITUSEAL (APP Waterproofing Membrane)
2	ALEX EXTRUSIONS LTD	KOLKATTA	, ,		
3	ASIAN PAINTS LIMITED	MUMBAI	, ,	NA	BRAND NAME-SMARTCARE
4	BERGER PAINTS INDIA LIMITED	New Delhi	, ,	NA	BRAND NAME-PROSHIELD P
5	BUILDTECH PRODUCTS PVT. (I) LTD.	DELHI	, ,		BRAND NAME-BUILDWRAP P
6	CHOKSEY CHEMICALS	MUMBAI	, ,		BRAND NAME-POLYMOD
7	CHRYSO INDIA PRIVATE LIMITED	NAVI MUMBAI	022 2768 5991, ,	info.india@chryso.com	BRAND NAME-CHRYSO ARMOURSHIELD
8	CICO TECHNOLOGIES LTD.	DELHI	, ,		BRAND NAME-CICO SHIELD
9	DELHI BUILDER'S STORES	DELHI	, ,		BRAND NAME-DERMABIT APP
10	FAIRMATE CHEMICALS PVT. LTD.	GUJARAT	, ,		BRAND NAME-WATERGAURD MEMBRANE APP G
11	FOSROC CHEMICALS (INDIA) PVT LTD	BANGALORE	+91 8042521900, ,	enquiry.india@fosroc.com	BRAND NAME-PROOFEX TORCHSEAL
12	IWL INDIA LTD.	CHENNAI	, ,		BRAND NAME-HYPERPLAS
13	LLOYD INSULATIONS (I) LTD.	DELHI	, ,		BRAND NAME-LLOYD PLASTOLAY
14	PIDILITE INDUSTRIES LTD.	MUMBAI	, ,		BRAND NAME-DR. FIXIT TORCHSHEILD P 4160
15	PURE LEATHERS PVT. LTD.	DELHI	, ,		BRAND NAME-ROOFSEAL

Sr No	Supplier Name	City	Phone	E-Mail	Remarks
16	SHIVAM TAR PRODUCTS	KARNAL	, ,	NA	BRAND NAME- SUPERIOR MULTIPOLYPLAS-SHIVAM
17	SIKA	KOLKATA	, ,		BRAND NAME-SIKA WP SHIELD
18	STP LTD.	DELHI	, ,	NA	SUPER THERMOLAY
19	SUPREME BITUCHEM INDIA PVT. LTD.	NAGPUR	, ,		
20	TECHNONICOL INDIA PVT LTD	MUMBAI	, ,	"	BRAND NAME- ULTRAPLAST
21	TEXSA INDIA LTD.	GURUGRAM	, , "	"	BRAND NAME-MOPLY
22	TIKI TAR DANOSA (INDIA) PVT LTD	Vadodara	, ,	NA	BRAND NAME-HYDROSTOP
Item : 6.1 PAINTING WORKS - PLASTIC/ ACRYLIC EMULSION (INTERNAL AND EXTERNAL), DISTEMPER ETC					
1	ACROPAINTS LTD.	DELHI	, ,		
2	ASIAN PAINTS LIMITED	MUMBAI	, ,	NA	
3	BERGER PAINTS	KOLKATA	, ,		
4	GODAVARI PAINTS PVT. LTD.	MUMBAI	, ,		
5	ICI PAINTS/ICI INDIA LTD.	KOLKATA	, ,		
6	KAMDHENU ISPAT LTD.	GURUGRAM	, ,	"	
7	N.E. PAINT UDYOG	SIVASAGAR(ASSA M)	, ,		
8	NEROLAC PAINTS	MUMBAI	, ,		
9	SHALIMAR PAINTS	MUMBAI	, ,		
Item : 6.2 PAINTING WORKS - SYNTHETIC ENAMEL (FOR BUILDING WORKS)					
1	ASIAN PAINTS LIMITED	MUMBAI	, ,	NA	
2	BERGER PAINTS	KOLKATA	, ,		
3	BERGER PAINTS INDIA LIMITED, BRITISH PAINT DIVISION	NEW DELHI	, ,	NA	BRAND NAME- GLO HI-GLOSS ENAMEL
4	GODAVARI PAINTS PVT.LIMITED	MUMBAI	, ,		
5	ICI PAINTS/ICI INDIA LIMITED	KOLKATA	, ,		
6	KAMDHENU ISPAT LIMITED	GURUGRAM	, ,	"	
7	N.E PAINT UDYOG	SIVANAGAR(ASSA M)	, ,		
8	NEROLAC PAINTS	MUMBAI	, ,		
9	SHALIMAR PAINTS	MUMBAI	, ,		
Item : 6.3 PAINTING WORKS - WATERPROOF CEMENT					
1	ACRO PAINTS LTD.	DELHI	, ,		BRAND NAME-ACROCEM
2	GODAVARI PAINTS PVT. LTD.	MUMBAI	, ,		BRAND NAME-SUPEREMCEM
3	KAMDHENU ISPAT LTD.	GURUGRAM	, ,	"	BRAND NAME-DREAMZ COLOR
4	KILLICK NIXON LTD.	MUMBAI	, ,		BRAND NAME-SNOWCEM

Sr No	Supplier Name	City	Phone	E-Mail	Remarks
5	RAJDOOT PAINTS	DELHI	, ,		BRAND NAME-XTRACEM 76 SUPERIOR CEMENT PAINT
6	SNOW WHITE INDUSTRIAL CORP.	CHENNAI	, ,		BRAND NAME-SUPERCEM
Item : 6.4 PAINTING WORKS - DECORATIVE TEXTURED COATING					
1	ACRO PAINTS LTD.	DELHI	, ,		BRAND NAME-ACROTEXTURES
2	BAKELITE HYLAM LTD	SECUNDRABAD	, ,		BRAND NAME-HARITAGE
3	KAMDHENU ISPAT LTD.	GURUGRAM	, ,	"	BRAND NAME-DREAMZ COLOR
4	LUXTURE SURFACE COATINGS PVT. LTD.	AJMER	, ,		BRAND NAME-LUXTURE
5	NCL ALLTEK AND SECCOLOR LTD	HYDERABAD	, ,		BRAND NAME-ALLTEK
6	SPECTRUM PAINTS	DELHI	, ,		BRAND NAME-SPECTRUM
7	UNITILE	DELHI	, ,		BRAND NAME-UNITILE
Item : 6.5 PAINTING WORKS - POLISHING (for Woodwork)					
1	ASIAN PAINTS LIMITED	MUMBAI	, ,	NA	
2	SHALIMAR PAINTS	MUMBAI	, ,		
Item : 6.6 PAINTING WORKS - WALL PUTTY					
1	BIRLA WHITE	DELHI	, ,		BRAND NAME-WALL CARE
2	JK CEMENT LTD	DELHI	, ,		BRAND NAME-JK WALL PUTYY
3	MANCHANDA ENTERPRISES	FARIDABAD	, ,		BRAND NAME-SARA
4	MYK LATRICRETE	LATA FINISH	, ,		BRAND NAME-LATA FINISH
5	NCL ALTEK & SECCOLOR LTD.	HYDERABAD	, ,		BRAND NAME-NCL SKIM COAT 1127
Item : 10 FALSE FLOORING					
1	AET FLEXIBLESPACE (I) PVT LTD	Mumbai	" , ,	"	BRAND NAME-FLEXI
2	EVEREST INDUSTRIES LTD	NOIDA	" , ,	"	BRAND NAME-EVEREST ACCESS FLOOR
3	LLOYD INSULATION (I) LTD	DELHI	, ,		
4	MULTI FLOORS	DELHI	, ,		
5	THE ELEMENTS	NEW DELHI	, ,	"	BRAND NAME-HI FLOOR
6	UNITED ACCESS FLOORS PVT LTD	MUMBAI	, ,		BRAND NAME- UNITILE
7	UNIVERSAL BUILDING PRODUCTS	DELHI	, ,		BRAND NAME-UNIFLOOR FS1500
Item : 11.1 INSULATION - UNDERDECK INSULATION					
1	BAKELITE HYLAM LTD	SECUNDRABAD	, ,		BRAND NAME-PHENOTHERM
2	LLOYD INSULATIONS (I) LTD	DELHI	, ,		BRAND NAME-ISOLLOYD NILFLAME
3	ROCKWOOL INDIA PVT LTD	HYDERABAD	, ,	"	BRAND NAME-ROCKINSUL
4	UP TWIGA FIBRE GLASS LTD	DELHI	, ,		BRAND NAME-TWIGA
Item : 11.2 INSULATION - OVERDECK INSULATION					

Sr No	Supplier Name	City	Phone	E-Mail	Remarks
1	BASF CONSTRUCTION CHEMICALS (I) PVT LTD	DELHI	, ,		BRAND NAME-ELASTOSPRAY
2	BEST PLASTRONICS LTD	DELHI	, ,		BRAND NAME-BESTPLASTRONICS
3	LLOYD INSULATION (I) LTD	DELHI	, ,		BRAND NAME-LLOYD SPRAY FOAM
Item : 7.1 ROOFING SHEETS & ACCESSORIES - PRECOATED PROFILED G.I./ GALVALUME/ ZINCALUME SHEETS					
1	BDS PROJECTS	Rohtak	, ,	NA	BRAND NAME-BDS
2	COLOUR ROOF INDIA LTD.	MUMBAI	, ,		BRAND NAME-HISPAN
3	ERA BUILDING SYSTEMS LTD	DELHI	, ,		BRAND NAME-ERA
4	INGENIUM INFRASTRUCTURE PRIVATE LIMITED	GURUGRAM	, ,	NA	BRAND NAME-INGENIUM
5	INTERARCH BUILDING PRODUCTS (P) LTD	NOIDA	, ,	NA	BRAND NAME-TRACDEK
6	JAPAN METAL BUILDING SYTEMS PVT LTD	BANGALORE	, ,		BRAND NAME-JMBS
7	LLOYD INSULATION (I) LTD	DELHI	, ,		BRAND NAME-LLOYDECK
8	METCO ROOF PVT LTD	CHENNAI	, ,	"	BRAND NAME-TOP GUARD
9	METECNO (INDIA) PVT LTD	CHENNAI	, ,		BRAND NAME-G6
10	MULTI COLOR STEEL (I) PVT LTD	CHENNAI	, ,		BRAND NAME-MULTI CLAD
11	PHENIX CONSTRUCTION TECHNOLOGIES	AHMEDABAD	, ,	"	BRAND NAME-PHENIX
12	ROOFCLAD INFRA PVT LTD	PALWAL	, ,	NA	BRAND NAME- ROOFCLAD
13	SHIV SHAKTI FIBRE UDYOG	DELHI	, ,		
14	SHREE PRE FAB STEELS (P) LTD	AHEMDABAD	, ,	NA	BRAND NAME- PRIMEDEK 1015
15	SHREE PRECOATED STEELS LTD	MUMBAI	, ,		BRAND NAME-METACOLOUR
16	SUPERTECH (INDIA) PVT LTD	NOIDA	, ,	NA	BRAND NAME- SUPERTECH HI-RIB
17	TATA BLUESCOPE STEEL LTD	PUNE	, ,		BRAND NAME-TRIMDECK
Item : 12.1 MISCELLANEOUS ITEMS - INTEGRAL WATER PROOFING COMPOUND (IN PLASTER)					
1	CHOKSEY CHEMICALS	MUMBAI	, ,		BRAND NAME-MASTERPROOF IWP-1/ IWP-2
2	CICO TECHNOLOGIES LIMITED	DELHI	, ,		BRAND NAME-CICO NO 1
3	FAIRMATE CHEMICALS PRIVATE LIMITED	VADODARA	, , 9879613004	nandan@fairmate.net	BRAND NAME-FAIRPLAST IP
4	PIDILITE INDUSTRIES	MUMBAI	, ,		BRAND NAME-PIDIPROOF LW
5	SAMROCK MUREXIN CHEMICAL (I) LIMITED	GUJARAT	, ,		BRAND NAME-SAMPLAST LW 150/PW
6	STP LIMITED	NEW DELHI	, ,		

Departmental List

Date :05/05/2026 16:20:48

Page 9 of 13

Sr No	Supplier Name	City	Phone	E-Mail	Remarks
Item : 13.1 CONSTRUCTION SEALANTS - POLYSULPHIDE SEALANT					
1	CHOWKSEY CHEMICALS PVT LTD	MUMBAI	, ,		BRAND NAME-TECHSEAL 940/941
2	CICO TECHNOLOGIES LTD	DELHI	, ,		BRAND NAME-CICOSEALANT T680
3	FOSROC CHEMICALS (INDIA) PVT LTD	BANGALURU	+91 8042521900, ,	enquiry.india@fosroc.com	BRAND NAME-THIOFLEX 600
4	PIDILITE INDUSTRIES LTD (DR. FIXIT)	MUMBAI	, ,	NA	BRAND NAME-PIDISEAL PS41G/ PIDISEAL PS42P
5	STP LIMITED	NEW DELHI	, ,		
Item : 13.2 CONSTRUCTION SEALANTS - SILICON SEALANTS					
1	PIDILITE INDUSTRIES LTD (DR. FIXIT)	MUMBAI	, ,	NA	BRAND NAME-DR. FIXIT SILICON SEALANT WX
Item : 14.1 PRE ENGINEERED BUILDINGS (PEB)					
1	BALARKA FABRICON PRIVATE LIMITED	JHAJJAR	, ,	"	
2	BDS PROJECTS	Rohtak	, ,	NA	BRAND NAME-BDS
3	BHEEMAA INFRA SOLUTIONS PVT LTD	HYDERABAD	, ,	NA	BRAND NAME-BHEEMA
4	ECO TURNKEY SOLUTIONS PVT LTD	FARIDABAD	, ,	NA	BRAND NAME- ecopeb
5	EVEREST INDUSTRIES LTD	NOIDA	, ,	"	
6	INTERARCH BUILDING PRODUCTS (P) LTD	NOIDA	, ,	NA	
7	JINDAL MEC TEC PVT LTD	GURUGRAM	, ,	"	
8	KAIZEN STEEL BUILDING SOLUTIONS PVT LTD	Delhi	, ,	NA	BRAND NAME-KAIZEN
9	KIRBY BUILDING SYSTEMS	NEW DELHI	, ,	"	
10	LLOYD INSULATION (I) LTD	DELHI	, ,		
11	METCO ROOF PVT LTD	CHENNAI	, ,	"	
12	MGI INFRA PRIVATE LIMITED	NEW DELHI	, ,	"	
13	MOONWALK INFRAPROJECTS PVT. LTD.	NOIDA	, ,	NA	BRAND NAME- MOONWALK
14	MPIL STEEL STRUCTURES LIMITED	MUMBAI	, ,	"	
15	PENNNAR ENGINEERED BUILDING SYSTEM LTD	HYDERABAD	, ,	"	
16	PHENIX CONSTRUCTION TECHNOLOGIES	AHMEDABAD	, ,	"	
17	PKM METAL BUILDINGS COMPANY PRIVATE LIMITED	CHENNAI	, ,	"	

Sr No	Supplier Name	City	Phone	E-Mail	Remarks
18	RISHIKESH STRUCTURAL SOLUTIONS LLP	VADODARA	, ,	NOT AVAILABLE	
19	SAXENA MARINE TECH (P) LTD	NOIDA	, ,	"	
20	SHIV SHAKTI FIBER UDYOG	FARIDABAD	, ,		BRAND NAME- SHIV SHAKTI FIBER UDYOG
21	SHREE PRE FAB STEELS (P) LTD	AHEMDABAD	, ,	NA	
22	SUPER DISCO ISPAT PVT LTD	New Delhi	, ,	NA	
23	SUPERTECH (INDIA) PVT LTD	NOIDA	, ,	NA	
24	UNISTAR METALS PVT. LTD.	KOLKATA	, ,	NA	BRAND NAME- UNISTAR
25	ZAMIL STEEL BUILDINGS INDIA PVT LTD	PUNE	, ,	NA	
Item : 15.1 ALUMINIUM COMPOSITE PANEL					
1	3A COMPOSITES INDIA PVT LTD	Mumbai	, ,	-	BRAND NAME- ALUCOBOND
2	4MANN INDUSTRIES PVT LTD	MUMBAI	, ,	NA	BRAND NAME-4MANN
3	ALSTONE INTERNATIONAL	New Delhi	, ,	NA	BRAND NAME-ALSTONE
4	ALUBOND DACS INDIA PVT LTD	Mumbai	, ,	NA	BRAND NAME- ALUBOND
5	ALUDECOR LAMINATION PVT LTD	New Delhi	, ,	NOT AVAILABLE	BRAND NAME- ALUDECOR
6	ALUTECH INDUSTRIES	New Delhi	, ,	NA	BRAND NAME-ALUTECH
7	EURO PANEL PRODUCTS PVT LTD	Mumbai	, ,	-	BRAND NAME- EUROBOND
8	PIONEER PANELS	MUMBAI	, ,	NA	BRAND NAME-PIONEER
9	REYNOBOND INDIA	NEW DELHI	, ,	'	BRAND NAME-REYNOARCH FR (PLUS)
10	SONIA PLASTICS PVT LTD	NEW DELHI	, ,	"	BRAND NAME-HYNADECOR
11	VIRGO LAMINATES LIMITED	New Delhi	, ,	NA	BRAND NAME-VIRGO
12	VIVA COMPOSITES PANEL PVT LTD	MUMBAI	, ,	-	BRAND NAME- VIVA
Item : 7.2 ROOFING SHEETS & ACCESSORIES - C.G.I. SHEET					
1	ISPAT INDUSTRIES LTD	DELHI	, ,		BRAND NAME-EVEREST
2	STEEL AUTHORITY OF INDIA LTD	--	, ,		BRAND NAME-SAIL
3	TATA STEEL	--	, ,		BRAND NAME-TISCO
Item : 16.1 TOILET CUBICLE/ TOILET PARTITION					
1	GREENLAM INDUSTRIES LTD	TINSUKIA	, ,	"	BRAND NAME- GREENLAM
2	INNER SPACE	MUMBAI	, ,	"	BRAND NAME- T-LINE
3	MERINO PANEL PRODUCTS LTD	NEW DELHI	, ,	"	BRAND NAME- MERINO
Item : 7.3 ROOFING SHEETS & ACCESSORIES - ALUMINIUM SHEET					
1	HINDALCO	MUMBAI	, ,		
2	JINDAL ALUMINIUM LTD	BANGALORE	, ,		
Item : 7.4 ROOFING SHEETS & ACCESSORIES - FIBER GLASS SHEET & PANELS					
1	ROOFCLAD INFRA PVT LTD	PALWAL	, ,	NA	BRAND NAME- ROOFCLAD

Sr No	Supplier Name	City	Phone	E-Mail	Remarks
2	SHIV SHAKTI FIBER UDYOG	FARIDABAD	, ,		BRAND NAME-FRP SHEET
3	SIMBA FRP (P) LTD	DELHI	, ,		BRAND NAME-SIMCRYL
Item : 7.5 ROOFING SHEETS & ACCESSORIES - POLYCARBONATE ROOFING SHEET					
1	ROOFCLAD INFRA PVT LTD	PALWAL	, ,	NA	BRAND NAME- ROOFCLAD
2	SARASWATI PLASTOTECH INDIA PVT. LTD.	JAMMU	, ,	NA	BRAND NAME- ULTRALITE
3	SHIV SHAKTI FIBRE UDYOG	DELHI	, ,		BRAND NAME-SHIV SHAKTI
4	UNITED STEEL & STRUCTURES PVT LTD	CHENNAI	, ,		TUFLIFE
Item : 8.1 SANITARY, PLUMBING FITTINGS & FIXTURES - SANITARY FITTINGS					
1	ALL MANUFACTURER'S LISTED BY BIS UNDER IS:2556	--	, ,		
Item : 8.2 SANITARY, PLUMBING FITTINGS & FIXTURES - PLUMBING FITTINGS AND FIXTURES					
1	CERA SANITARYWARE LTD.	NEW DELHI	, ,	NA	BRAND NAME- CERA
2	GEM INTERNATIONAL	FARIDABAD	, ,		BRAND NAME-GEM
3	H&R JOHNSON INDIA	DELHI	, ,		BRAND NAME-JOHNSON
4	JAQUAR & COMPANY LTD	DELHI	, ,		BRAND NAME-JAQUAR
5	JUPITER AQUA LINES LTD	MOHALI	, ,		BRAND NAME-JUPITOR
6	ORIENT CERAMICS	DELHI	, ,		BRAND NAME-ORIENT
7	OTHELLO FAUCETS PVT LTD	DELHI	, ,		BRAND NAME-MAYUR
8	PARKASH BRASSWARE INDUSTRIES	DELHI	, ,		BRAND NAME-PARKO
9	PLASTOCRAFT SANITARY INDIA PVT LTD	DELHI	, ,		BRAND NAME-KINGSTON
10	PRAYAG POLYMERS (P) LTD	DELHI	, ,		BRAND NAME-H2O
Item : 8.3 SANITARY, PLUMBING FITTINGS & FIXTURES - MIRROR / GLASS					
1	ATUL GLASS	DELHI	, ,		BRAND NAME-ATUL
2	CERA SANITARYWARE LTD.	NEW DELHI	, ,	NA	BRAND NAME- CERA
3	CONTINENTAL FLOAT GLASS	DELHI	, ,		BRAND NAME-CONTINENTAL
4	GUJARAT GUARDIAN LTD	DELHI	, ,		BRAND NAME-MODIGUARD
5	HINDUSTAN SAFETY GLASS	KOLKATA	, ,		BRAND NAME-HINDUSTAN
6	TRIVENI GLASS	KOLKATA	, ,		BRAND NAME-TRIVENI
Item : 9.1 FALSE CEILING - ALUMINIUM STRIP/ TRAY TYPE					
1	AURA SYNERGY INDIA PVT LTD	NEW DELHI	, ,	NA	BRAND NAME- GRID SQUARE
2	COMPLETE INFRA STRCTURE PVT LTD	NEW DELHI	, ,	NA	BRAND NAME- BOLLARD
3	HUNTER DOUGLAS	DELHI	, ,		BRAND NAME-LUXALON
4	INTERARCH BUILDING PRODUCTS (P) LTD	NOIDA	, ,		BRAND NAME-TRAC

Sr No	Supplier Name	City	Phone	E-Mail	Remarks
5	LLOYD INSULATION (I) LTD	DELHI	, ,		BRAND NAME-LLOYD LINEAL CEILINGS
6	MANRAJ CEILING PRODUCTS PVT LTD	Ghaziabad	, ,	NA	BRAND NAME- ROYAL KRAFT
7	MASCOT OVERSEAS	DELHI	, ,		BRAND NAME-METALIC/ TRULON
8	MITTAL BUILDWEL	GHAZIABAD	, ,	NA	BRANDNAME-CEILOTECH
9	P. R. PRODUCTS	DELHI	, ,	"	BRAND NAME-Hi-Steel
10	P.R. CEILING PRODUCTS	AGRA	, ,	"	BRAND NAME- MCRA
Item : 9.2 FALSE CEILING - GYPSUM BOARD					
1	SAINT GOBAIN GYPROC INDIA LTD	MUMBAI	, ,		BRAND NAME-GYPBOARD
2	USG BORAL BUILDING (INDIA) PRIVATE LIMITED	GURUGRAM	, ,	"	BRAND NAME-LaGyp
Item : 9.3 FALSE CEILING SYSTEM- MINERAL FIBER					
1	ARMSTRONG WORLD INDUSTRIES INDIA (P) LTD	MUMBAI	, ,		
2	COMPLETE INFRA STRCTURE PVT LTD	NEW DELHI	, ,	NA	BRAND NAME- BOLLARD
3	USG BORAL BUILDING (INDIA) PRIVATE LIMITED	GURUGRAM	066048050052, ,	"	
Item : 17.1 SPRAYED PU FOAM INSULATION (FOR OVERDECK ROOF INSULATION CUM WATER PROOFING SYSTEM)					
1	ASIAN PAINTS LIMITED	MUMBAI	, ,	NA	BRAND NAME-ASIAN PAINTS (AP) SMART CARE (SC) PU INSULATOR
2	BERGER PAINTS INDIA LIMITED	New Delhi	, ,	NA	BRAND NAME-PU SPRAY PUF
3	CHRYSO INDIA PRIVATE LIMITED	NAVI MUMBAI	022 2768 5991, ,	info.india@chryso.com	BRAND NAME-CHRYSO ELASTOTHANE SF
4	FOSROC CHEMICALS (INDIA) PVT LTD	BENGALURU	+91 8042521900, ,	enquiry.india@fosroc.com	BRAND NAME-NITOFOAM 45
5	MAPEI CONSTRUCTION PRODUCTS INDIA PVT LTD	BANGALORE	, ,	"	BRAND NAME-PURTOP FOAM 45 HFC
6	MYK ARMENT PVT LTD	HYDERABAD	, ,	"	BRAND NAME-AQUAARM INSUSPRAY PUF B2
7	PIDILITE INDUSTRIES LIMITED	New Delhi	, ,	NA	BRAND NAME-DR. FIXIT FOAM SHIELD
8	STP LIMITED	NEW DELHI	, ,		BRAND NAME-SHALI PUF SA
9	TECHNONICOL INDIA PVT LTD	MUMBAI	, ,	"	BRAND NAME-TECHNONICOL LOGICFOAM SPF
Item : 18.1 ABRASION RESISTANT EPOXY FLOOR COATING SYSTEM					

Sr No	Supplier Name	City	Phone	E-Mail	Remarks
1	BERGER PAINTS INDIA LIMITED	New Delhi	, ,	NA	BRAND NAME- PRO SHIELD HS (PRIMER) + PRO EPISHIELD (FLOOR SCREED) + PRO EPISHIELD SL (COATING)
2	PIDILITE INDUSTRIES LIMITED	New Delhi	, ,	NA	BRAND NAME- DR. CIPY CIPOXY 17 (PRIMER, SCREED/ SCRATCH COAT) & DR. CIPY FLOORTOP 2000 (TOP COAT)
3	SYNORGANIC PAINTS PVT LTD	Bhilai	, ,	'	INDUSCOAT EP BOND 250 (PRIMER) & INDUSCOAT EP COVER 100 (SCREED/ SCRATCH COAT) & INDUSCOAT EP COVER 100 (SCREED) & INDUSCOAT EP COVER 100 (TOP COAT)
Item : 19.1 ABRASION & IMPACT RESISTANT POLYURETHANE FLOORING SYSTEM					
1	BERGER PAINTS INDIA LIMITED	New Delhi	, , 066048050052	NA	BRAND NAME-PRO EPISHIELD WB (PRIMER) + PRO POLYSHIELD CONCRETE (SCREED/SCRATCH COAT) + PRO POLYSHIELD CONCRETE (COATING)
2	PIDILITE INDUSTRIES LIMITED	New Delhi	, ,	NA	BRAND NAME- DR. CIPY AQUOXY 50 (PRIMER) & DR. CIPY DURACRETE MD (SCREED/ SCRATCH COAT & TOP COAT)
3	SYNORGANIC PAINTS PVT LTD	Bhilai	, ,	'	INDUSCOAT EP WB (PRIMER) & INDUSCOAT PU SHIELD 100 (SCREED/ SCRATCH COAT) & INDUSCOAT EP TOPCRETE 300 (TOP COAT)
Area of Experience:					
Item : 13.1 CONSTRUCTION SEALANTS - POLYSULPHIDE SEALANT					
1	SIKA INDIA PVT LTD	KOLKATA	, ,		

**APPROVED VENDOR LIST
FOR
STRUCTURAL WORKS**

**PROJECT: BALANCE WORKS FOR CONSTRUCTION
OF BOUNDARY WALL AROUND SHRI RAM
MANDIR COMPLEX IN AYODHYA.**

CLIENT : RAM JANMABHOOMI TRUST.

JOB NO : C098

TENDER NO. C098-000-81-41-CD-T-8105

A	08-05-2026	ISSUED FOR TENDER	RK	AM	AH
Rev. No	Date	Purpose	Prepared by	Checked by	Approved by

Sr No	Supplier Name	City	Phone	E-Mail	Remarks
Department : STRUCTURE - LIST OF APPROVED PRODUCTS					
Area of Experience: Other					
Item : A. INTEGRAL WATER-PROOFING COMPOUNDS FOR CONCRETE (AS PER IS:2645)					
1	Refer Remark	INDIA	, ,	NA	All Integral Waterproofing Compounds for Concrete which carry "ISI" certification mark of BIS along with standard number "IS 2645" and the license number "CM/L**....*)" and listed at BIS website "https://www.bis.gov.in".
Item : B. CONCRETE ADMIXTURES -(AS PER IS:9103)					
1	Refer Remark	INDIA	, , 066057048052	NA	All Accelerating, Retarding, Water-reducing, Air-entraining & Super-plastizing Admixtures for Concrete which carry "ISI" certification mark of BIS along with standard number "IS 9103" and the license number "CM/L**....*)" and listed at BIS website "https://www.bis.gov.in".
Item : C. BI-POLAR CONCRETE PENETRATING CORROSION INHIBITING ADMIXTURE (AS PER EIL STD SPEC NO 6-68-0017)					
1	APPLE CHEMIE INDIA PVT LTD	NAGPUR	+91 9607001014, ,	www.applechemie.com	PRODUCT NAME-AC CORROGUARD-BP
2	BUILDPRO TECHNOLOGIES	HUBLI, KARNATAKA	+91 7045000315, +91 9324924396,	projects.buildprotechnologies@gmail.com	PRODUCT NAME-CEBRICORR BP
3	CHRYSO INDIA PRIVATE LIMITED	NAVI MUMBAI	022 2768 5991, ,	info.india@chryso.com	BRAND NAME-CHRYSO CORROCRETE
4	CLEAN COATS PVT LTD	THANE	, ,		PRODUCT NAME-CONPROOF 1A (DOSAGE 1% W/W OF CEMENT)
5	FAIRMATE CHEMICALS PRIVATE LIMITED	VADODARA	, , 9879613004	nandan@fairmate.net	PRODUCT NAME- FAIRCRETE C
6	FOSROC CHEMICALS (INDIA) PVT LTD	BENGALURU	+91 8042521900, ,	enquiry.india@fosroc.com	BRAND NAME-AURAMIX BCI
7	HINDCON CHEMICALS LTD	KOLKATA	, ,	NA	BRAND NAME- HIND CORROGUARD
8	KRISHNA CONCHEM PRODUCTS PVT LTD	NAVI MUMBAI	, ,		PRODUCT NAME-EPCO KP-200 (DOSAGE 1% W/W OF CEMENT)
9	MASTER BUILDERS SOLUTIONS INDIA PVT LTD	NAVI MUMBAI	, ,	NA	PRODUCT NAME- MASTERLIFE CI 220 (DOSAGE 1% W/W OF CEMENT)

Departmental List

Date :08/05/2026 11:42:37

Page 2 of 5

Sr No	Supplier Name	City	Phone	E-Mail	Remarks
10	NORMET INDIA PVT LTD	NOIDA, U.P.	+91 120 4504800, ,	india.info@normet.com	PRODUCT NAME-TamCem BPCI
11	REDWOP CHEMICALS PVT. LTD.	RAJKOT, GUJARAT	0281 2576664, ,	ravi.ramani@redwop.net	PRODUCT NAME-PLASTCONE BPO
12	SP CONCARE PVT. LTD.	SANGLI	, ,	NA	BRAND NAME:ADDMIX 109 PCCI
13	STP LTD.	DELHI	, ,	NA	PRODUCT NAME-SHALIPLAST MCI (DOSAGE 1% W/W OF CEMENT)
14	SUNANDA SPECIALITY COATING PVT LTD	MUMBAI	, ,		PRODUCT NAME-POLYALK CP 293 (DOSAGE 1% W/W OF CEMENT)
Item : D. POLYSULPHIDE SEALANTS (TWO PART, AS PER IS:12118)					
1	APPLE CHEMIE INDIA PVT LTD	NAGPUR	+91 9607001014, ,	www.applechemie.com	PRODUCT NAME-AC POLYSEAL (PG)
2	CHOWKSEY CHEMICALS PVT LTD	MUMBAI	, ,		PRODUCT NAME-TECHSEAL 940/941
3	CICO TECHNOLOGIES LIMITED	DELHI	, ,		PRODUCT NAME-CICO SEAL T680
4	DON CONSTRUCTION CHEMICALS INDIA LTD	CHENNAI	, ,	NA	BRAND NAME- 1. FLEXSEAL PS660 (GUN GRADE) 2. FLEXSEAL PS660 (POUR GRADE)
5	DURA BUILD CARE PVT LTD	DELHI	, ,	NA	PRODUCT NAME- DURASIL PPS (POURING GRADE)
6	FOSROC CHEMICALS (INDIA) PVT LTD	BENGALURU	+91 8042521900, ,	enquiry.india@fosroc.com	PRODUCT NAME-THIOFLEX 600
7	HINDCON CHEMICALS LTD	KOLKATA	, ,	NA	BRAND NAME- 1. HIND SEALANT PS (POUR GRADE). 2. HIND SEALANT PS (GUN GRADE)
8	JAY CHEMICAL INDUSTRIES PVT LTD	AHMEDABAD	, ,	NA	PRODUCT NAME- K2 POLYSEAL 22P (POUR GRADE)
9	KANSAI NEROLAC PAINTS LIMITED	MUMBAI	9999100064, ,	preetirohatgi@nerolac.com	PRODUCT NAME- 1. PERMA POLYSEAL (GUN GRADE) 2. PERMA POLYSEAL (POUR GRADE)
10	PIDILITE INDUSTRIES LTD (DR. FIXIT)	MUMBAI	, ,	NA	PRODUCT NAME-1. PIDISEAL PS41G, 2. PIDISEAL PS42P
11	SIKA INDIA PVT LTD	KOLKATA	, ,		BRAND NAME- 1. SIKA POLYSULPHIDE (SIKALASTIC) 2. SIKAFLEX CONSTRUCTION 3. IGAS Ih
12	STP LIMITED	NEW DELHI	, ,		PRODUCT NAME- SHALISEAL PS

Sr No	Supplier Name	City	Phone	E-Mail	Remarks
13	ZZ-Refer Remarks (ZZ inserted to maintain the alphabetic chronology)	INDIA	, ,	NA	All other Polysulphide Sealants (Two Parts) which carry "ISI" certification mark of BIS along with standard number "IS 12118" and the license number "CM/L**....*)" and listed at BIS website "https://www.bis.gov.in" .
Item : E. ANCHOR FASTENERS - CHEMICAL TYPE (EOTA / DIBt/ FM/ ICBO-ES APPROVED). Note- Design of post-installed Anchors and Rebars shall be provided/ verified by the approved manufacturer with installation instructions and execution shall be done by an applicator trained by the approved manufacturer (preferably in the presence of manufacturer for critical applications/ structures).					
1	FISCHER FIXING SYSTEMS(MICO) LTD	BENGALURU	, ,		BRAND NAME-FISCHER ANCHORS
2	FOSROC CHEMICALS (INDIA) PVT LTD	BENGALURU	+91 8042521900, ,	enquiry.india@fosroc.com	CHEMICAL ANCHORING OF REBAR, BRANDS NAMES- LOKFIX E55, LOKFIX E77 & LOKFIX E45T
3	HILTI INDIA PVT LTD	DELHI	, ,		BRAND NAME-HILTI ANCHORS
4	INDO SPARK CONSTRUCTION SERVICES	KOLHAPUR	, , 066057048052	NA	BRAND NAME-ICFS CM VESF, CM VESF TROPICAL, CM SH, CM SH TROPICAL, CM 585 PE PRO, CM 385 PE PRO, CM 400 PE, CM 650 PE
5	MASTER BUILDERS SOLUTIONS INDIA PVT LTD	NAVI MUMBAI	, ,	NA	BRAND NAMES-MASTERFLOW 916 AN, 918 AN, 920 AN, 932 AN, 936 AN
6	MUNGO FIXINGS INDIA PVT LTD	BENGALURU	, ,	NA	BRAND NAME-MIT 700 RE, MIT SE PLUS, MIT TROPICAL, MIT SP & MVA CAPSULE
7	POWERS FASTENERS(THROUGH M/S KRAFT SALES & SERVICES (I) LTD.)	PUNE	, ,	NA	BRAND NAME-POWERS FASTENERS
8	UIP SYSTEMS (INDIA) PVT LTD	MUMBAI	, ,	NA	UIP FASTENERS
9	WUERTH INDIA PVT LTD	DELHI	, ,	NA	BRAND NAME-WUERTH ANCHORS
Item : F. ANCHOR FASTENERS - MECHANICAL TYPE (EOTA / DIBt/ FM/ ICBO-ES APPROVED). Note- Design of post-installed Anchors and Rebars shall be provided/ verified by the approved manufacturer with installation instructions and execution shall be done by an applicator trained by the approved manufacturer (preferably in the presence of manufacturer for critical applications/ structures).					
1	FISCHER FIXING SYSTEMS(MICO) LTD	BENGALURU	, ,		BRAND NAME-FISCHER ANCHORS
2	HILTI INDIA PVT LTD	DELHI	, ,		BRAND NAME-HILTI ANCHORS

Departmental List

Date :08/05/2026 11:42:37

Page 4 of 5

Sr No	Supplier Name	City	Phone	E-Mail	Remarks
3	INDO SPARK CONSTRUCTION SERVICES	KOLHAPUR	, ,	NA	BRAND NAME: (ICFS) INDO WEDGE ANCHOR IWA, IWA-A2, IWA-A4
4	MUNGO FIXINGS INDIA PVT LTD	BENGALURU	, ,	NA	BRAND NAME-M1 POWER GRIP, M1r POWER GRIP, M1T, M2, M2r, MCS, MEA
5	POWERS FASTENERS(THROUGH M/S KRAFT SALES & SERVICES (I) LTD.)	PUNE	, ,	NA	BRAND NAME-POWERS FASTENERS
6	UIP SYSTEMS (INDIA) PVT LTD	MUMBAI	, ,	NA	UIP FASTENERS
7	WUERTH INDIA PVT LTD	DELHI	, ,	NA	PRODUCT NAME- WUERTH ANCHORS
Item : G. ELECTRO-FORGED GALVANISED GRATINGS (AS PER EIL STD 7-68-0697, BS:4592)					
1	ABHYANT EFG & ENGINEERING PVT. LTD	RAIPUR	, ,	NA	TYPE-I & TYPE-II
2	ANKIT ELECTROGRATING	RAIPUR	, ,	NA	TYPE-I & TYPE-II
3	BHOLA RAM STEEL PVT LTD	PATNA	, ,		BRAND NAME-BHOLARAM GRATINGS
4	CELL COM TELESERVICES PVT LTD	SIKANDRABAD	, ,	NA	BRAND NAME-CELLCOM GRATINGS
5	FERROTECH STRUCTURALS (INDIA) PVT LTD	KANCHIPURAM & PUNE	+91 9840308880, ,	www.ferrotechindia.net	TYPE-I & TYPE-II
6	GREATWELD ENGINEERING PVT. LTD.	PUNE	+91 7350304304, ,	sumit.rungta@greatweld.com	BRAND NAME-GREATWELD GRATINGS, TYPE-I & TYPE-II
7	INDIANA GRATING PVT.LTD	MUMBAI	, ,		BRAND NAME-INDIANA GRATINGS
8	IRONWELD ENGINEERING PVT LTD	PUNE	, ,	NA	TYPE-I & TYPE-II
9	JACINTH ENGINEERING PVT LTD	MUMBAI	, ,	NA	BRAND NAME-JACINTH GRATINGS
10	KANADE ANAND UDYOG PVT LTD	MUMBAI	, ,		BRAND NAME-KANADE GRATINGS
11	LANCER VINIMAY PVT. LTD.	DURGAPUR, WB	+91 9331391910, ,	lancervinimay@gmail.com	TYPE-I & TYPE-II
12	LIONWELD MEISER LLC	DUBAI	, ,	NA	TYPE-I & TYPE-II
13	MEET ENGINEERING	VADODARA	, ,	NA	TYPE-I & TYPE-II
14	METALIC INDUSTRIES	VADODRA, GUJARAT	, , 9909255335	admin@metallic-industries.com	TYPE-I & TYPE-II
15	MKSD INDUSTRIES PVT. LTD.	NAVI MUMBAI	9930131143/44, , 9930131143	mkstdworks@gmail.com	BRAND NAME- MKSD GRATINGS TYPE-I & TYPE-II
16	OASIS METAL MANUFACTURING LLC	DUBAI, UAE	00971504531142, ,	info@oasismetall.com	TYPE-I & TYPE-II

Departmental List

Date :08/05/2026 11:42:37

Page 5 of 5

Sr No	Supplier Name	City	Phone	E-Mail	Remarks
17	OMKAR GRATINGS PVT LTD	MUMBAI	, ,		BRAND NAME-OMKAR GRATINGS (FOR EIL TYPE-II GRATING ONLY)
18	PARCO ENGINEERS (MUMBAI) PVT LTD	Mumbai	9819278530, , 9819278530	info@parcoengineers.com	TYPE-I & TYPE-II
19	PINAX STEEL INDUSTRIES PVT LTD	KOLKATA	, ,		BRAND NAME-PINAX GRATINGS
20	PREMIER POWER PRODUCTS PVT LTD	KOLKATA	, ,		BRAND NAME-PREMIER GRATINGS
21	RATAN PROJECTS & ENGINEERING CO.PVT LTD.	KOLKATTA	, ,	sales@ratans.com	BRAND NAME- RATAN GRATINGS
22	SIGMA GALVANIZING PVT LTD	NAVI MUMBAI	, ,	NA	TYPE-I & TYPE-II
23	TECH-FAB INDUSTRIES	AMBERNATH (E) MAHARASHTRA	+91 7738995869, , 7738995869	sales@techfabind.com	BRAND NAME- TECH-FAB GRATINGS TYPE-I & TYPE-II
24	VINFAB GRATINGS	MUMBAI	, ,		BRAND NAME-VINFAB GRATINGS
25	WHEELS INDIA LTD	CHENNAI	, ,	NA	PRODUCT NAME-WHEELS GRATINGS
Item : H. INTEGRAL CRYSTALLINE ADMIXTURE FOR WATERPROOFING TREATMENT TO CONCRETE (AS PER CPWD SPECIFICATION 2019, CLAUSE 22.14)					
1	APPLE CHEMIE INDIA PVT LTD	NAGPUR	+91 9607001014, , 0227685991	www.applechemie.com	PRODUCT NAME-AC CRSYTACRETE
2	CHRYSO INDIA PRIVATE LIMITED	NAVI MUMBAI	022 2768 5991, ,	info.india@chryso.com	PRODUCT NAME-CHRYSO CWA10
3	FOSROC CHEMICALS (INDIA) PVT LTD	BENGALURU	+91 8042521900, ,	enquiry.india@fosroc.com	PRODUCT NAME-CONPLAST CRYSTALLINE
4	KRYTON BUILDMAT CO PVT LTD	GURUGRAM	0124 4381 140, ,	info@kryton.in	PRODUCT NAME-KRYSTOL INTERNAL MEMBRANE "KIM"
5	PENETRON INFRA PRODUCTS PVT LTD	NAVI MUMBAI	+91 7738444041, ,	inquiry@penetron.co.in	PRODUCT NAME-PENETRON ADMIX
6	SHALIMAR SEAL & TAR PRODUCTS PVT LTD	JAIPUR	+91 9829065184, ,	ocrd@shalimartar.com	PRODUCT NAME-KAVASSU CRYSTALLOMIX-PG
7	XYPEX	GAUTAM BUDH NAGAR	0120-4090900, ,	info@xypex.in	PRODUCT NAME-XYPEX ADMIX C-2000 NF

VENDOR LIST FOR ELECTRICAL EQUIPMENTS & COMPONENTS

PROJECT : COMPOSITE WORKS FOR CONSTRUCTION OF
BOUNDARY WALL

OWNER : SRI RAM JANMBHOOMI TEERTH KSHETRA
TRUST

CONSULTANT : ENGINEERS INDIA LIMITED

JOB NO. : C098

A	12.06.2025	ISSUED WITH TENDER	AP	GKS	ST
Rev. No	Date	Purpose	Prepared by	Checked by	Approved by

Sr No	Supplier Code	Supplier Name	Country	Holiday Description
Item Code : 13OC		Description : CABLES-MEDIUM VOLTAGE-POWER-XLPE		
Approved Suppliers				
1	K190A	KEC INTERNATIONAL LIMITED	INDIA	
2	4001	RAVI INDUSTRIES	INDIA	
3	4164	SHRIRAM TELELINK	INDIA	
4	4261	TORTEK INDIA PRIVATE LIMITED	INDIA	
5	4262	K C POWERTRACKS	INDIA	
6	4263	TIRUPATI PLASTOMATICS PRIVATE LIMITED	INDIA	
7	4264	SURAJ CABLES (INDIA) PRIVATE LIMITED	INDIA	
8	4265	SVARN INFRATEL PRIVATE LIMITED	INDIA	
9	D012	DELTON CABLES LIMITED	INDIA	
10	4234	LASER POWER & INFRA PRIVATE LIMITED	INDIA	
11	3669	KEI INDUSTRIES LIMITED	INDIA	
12	3814	RR KABEL LIMITED	INDIA	
13	3602	Special Cables Pvt. Ltd.	INDIA	
14	K082	KEI INDUSTRIES LIMITED	INDIA	
15	U003	UNIVERSAL CABLES LTD	INDIA	
16	T124	TORRENT ELECTRICALS LIMITED	INDIA	
17	A132	ASSOCIATED FLEXIBLES & WIRES [P] LTD	INDIA	
18	C145	CORDS CABLE INDUSTRIES LTD	INDIA	
19	4163	KLJ PARAFLEX INDIA LIMITED	INDIA	
20	3765	THERMO CABLES LTD.	INDIA	
21	4055	DYNAMIC CABLES LIMITED	INDIA	
22	3796	PARAMOUNT COMMUNICATIONS LTD	INDIA	
23	S025	SRIRAM CABLES PVT LTD	INDIA	
24	3731	POLYCAB INDIA LIMITED	INDIA	
25	3732	POLYCAB INDIA LIMITED	INDIA	
26	3722	POLYCAB INDIA LIMITED	INDIA	
27	G156	GEMSCAB INDUSTRIES LTD	INDIA	
28	H060	HAVELLS INDIA LTD	INDIA	
29	R203	LKB ENGINEERING PRIVATE LIMITED	INDIA	
30	3969	SHIVPRIYA CABLES PRIVATE LIMITED	INDIA	
31	3854	CHANDRESH CABLES LIMITED	INDIA	
32	S304	SUYOG ELECTRICALS LTD	INDIA	
33	U085	APAR INDUSTRIES LTD	INDIA	
34	4137	INSUCON CABLES AND CONDUCTORS PRIVATE LIMITED	INDIA	
35	4104	ZENIUM CABLES LIMITED	INDIA	
36	4105	ULTRACAB (INDIA) LIMITED	INDIA	
37	3781	POLYCAB INDIA LIMITED	INDIA	
38	3783	POLYCAB INDIA LIMITED	INDIA	
On Holiday				

Sr No	Supplier Code	Supplier Name	Country	Holiday Description
Item Code : 13OC		Description : CABLES-MEDIUM VOLTAGE-POWER-XLPE		
1	3770	CMI LIMITED	INDIA	Ground-XIII (Negative network or Financial constraints)
2	3647	GUPTA POWER INFRASTRUCTURE LIMITED	INDIA	Ground-XV (Banned due to poor performance)
3	R179	RAVIN CABLES LTD	INDIA	HOLIDAY FOR NALCO-REFUSAL TO EXCT. ORDER
4	F013	FINOLEX CABLES LTD.	INDIA	DORMANT (NOT TO BE CONSIDERED)



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Sr No	Supplier Code	Supplier Name	Country	Holiday Description
Item Code : 14LB		Description : LIGHTING FIXTURE & ACCESSORIES-NON HAZARDOUS		
Approved Suppliers				
1	3687	PYROTECH TECHNOLOGIES PRIVATE LIMITED	INDIA	
2	4043	ORIENT ELECTRIC LIMITED	INDIA	
3	4245	FCG HI-TECH PRIVATE LIMITED	INDIA	
4	4211	SURYA ROSHNI LTD	INDIA	
5	3833	BAJAJ ELECTRICALS LTD	INDIA	
6	3834	BAJAJ ELECTRICALS LTD	INDIA	
7	4036	HALONIX TECHNOLOGIES PRIVATE LIMITED	INDIA	
8	3993	LIGHTING TECHNOLOGIES INDIA PRIVATE LIMITED	INDIA	
9	3986	HAVELLS INDIA LTD	INDIA	
10	4068	FORTUNEART LED LIGHTING PVT LTD	INDIA	
11	4214	CROMPTON GREAVES CONSUMER ELECTRICALS LIMITED	INDIA	
On Holiday				
1	P037	SIGNIFY INNOVATIONS INDIA LIMITED	INDIA	HOLD RFQ/PBO/PO DUE TO SHIFTING OF WORKS

068052053051

Sr No	Supplier Code	Supplier Name	Country	Holiday Description
Item Code : 14LC		Description : LIGHTING & POWER PANELS (SAFE AREA)		
Approved Suppliers				
1	A372	ABB INDIA LTD	INDIA	
2	I013	NOVATEUR ELECTRICAL & DIGITAL SYSTEMS P	INDIA	
3	C007	C & S ELECTRIC LTD	INDIA	
4	3825	HAVELLS INDIA LIMITED	INDIA	



068052053051

Sr No	Supplier Code	Supplier Name	Country	Holiday Description
Item Code : 14MA		Description : MCB		
Approved Suppliers				
1	3888	POLYCAB INDIA LIMITED	INDIA	
2	I168	INDIANA CURRENT CONTROL LTD	INDIA	
3	S393	STANDARD ELECTRICALS LTD	INDIA	
4	3793	C & S ELECTRIC LTD	INDIA	
5	L071	LEGRAND (INDIA) PVT. LTD (FORM. M-006)	INDIA	
6	A372	ABB INDIA LTD	INDIA	
7	S003	SIEMENS LIMITED	INDIA	
8	3726	NOVATEUR ELECTRICAL & DIGITAL SYSTEMS PVT. LTD.	INDIA	
9	3824	HAVELLS INDIA LIMITED	INDIA	
10	S450	SCHNEIDER ELECTRIC INDIA PVT LTD	INDIA	



068052053051

-
- i) Contractor/ vendor while ordering shall ensure the availability of spare parts and maintenance support services for the offered equipment at least for 10 years from the date of supply. Contractor/ vendor shall give a notice of at least one year to the Owner before phasing out the products/spares to enable the owner for placement of order for spares and services.
 - ii) Contractor/ Vendor may procure material from any of owner/ EIL-approved vendors. However current validity and range of approval as per EIL enlistment letter, workload, stability and solvency need to be verified by the vendor/contractor before placement of order.
 - iii) Contractor/ Vendor can offer equipment/components of makes other than specified in the tender during order execution. The alternate make of equipment/components will be evaluated post order, based on the satisfactory track record and test certificates to be furnished by the Vendor/ Contractor. In case the alternate makes are not found acceptable, equipment/components shall be strictly as per vendor list enclosed with the tender.



SCOPE OF WORK AND SUPPLY (ARCHITECTURAL)

Tender No. C098-000-81-46-SOW-8105

PROJECT : BALANCE WORKS FOR CONSTRUCTION OF
BOUNDARY WALL AROUND THE SHRI RAM MANDIR
COMPLEX IN AYODHYA

OWNER : SRI RAM JANMBHOOMI TEERTH KSHETRA
TRUST

CONSULTANT : ENGINEERS INDIA LIMITED

JOB NO. : C098

A	08.05.2026	ISSUED FOR TENDER	Palack Chnagwal	Atul Gupta	Anish Kundu
Rev No.	Date	Purpose	Prepared by	Checked by	Approved by



CONTENTS

1.0	SCOPE OF WORK	3
1.1	Broad scope of work.....	3
1.2	Detail scope of work	3
2.0	SCOPE OF SUPPLY	5
2.2	Owner's scope of supply	5
2.3	Contractor's scope of supply	5
3.0	LIST OF ATTACHMENTS	5
3.1	Job Specification	5
3.2	Drawings	5
3.3	Vendor List.....	5
3.4	Schedule of Rates/ Quantities	6
4.0	PREAMBLE TO SCHEDULE OF QUANTITIES	6



1.0 SCOPE OF WORK

1.1 Broad scope of work

The broad scope of work of the Contractor shall be execution of Architectural works for Boundary Wall and Buildings as mentioned in accordance with detail scope of work, construction drawings, standards, specifications, schedule of quantities/ rates, contract provisions and as directed by Engineer-In- Charge including:

- Supply and provision of materials, labour, tools, tackles etc.
- Preparation and submission of fabrication or installation or execution drawings.
- Assistance for obtaining approvals from statutory or other Authorities.
- Co-ordination with other Contractors and agencies, Owner, Project Management Consultant (PMC) etc.
- Preparation and submission of "As-built" drawings.
- Any other incidental works not specifically mentioned but required for completion of the work.

1.2 Detail scope of work

1.2.1 Buildings or Sheds or Structures

Scope of work of the Contractor shall include (but not limited to) the following Buildings/facilities

S. No.	Building/ Structures	Structure type, Number of floors etc.	Quantity
1	Watch Tower	• The building shall be a R.C.C framed structure with RCC roof • External walls shall be RCC/ AAC block walls with Stone cladding /Texture paint • The building shall consist of Watch towers with associated facilities i.e. Rest Room, etc.	Watch towers – 06 Nos
2	Boundary Wall	• Boundary wall shall be in RCC with Texture paint. • Two types of Boundary wall shall be considered- Ornamental & Typical type • Ornamental type boundary wall shall be constructed along Entry Gateways to the campus and shall have stone aedicule. • An adjoining patrolling path shall run along Boundary wall inside.	Total Length – 750 meters 1800 wide Patrolling path
3	Toilets	• The building shall be a R.C.C framed structure with RCC roof	As/ site



1.2.2 Supply and provision of materials, labour, tools, tackles etc.

Unless otherwise specifically mentioned, supply and provision (including transportation, storage, fabrication, installation and execution etc.) of all materials (consumables and non-consumables), labour, tools, tackles, equipment, plant machinery, staging, scaffolding, HSE (Health, safety, environment) gear etc as required for completion of work is included in the scope of work of the Contractor.

1.2.3 Preparation and submission of fabrication or installation or execution drawings

Preparation and submission of fabrication or installation or execution drawings of Façade system, Cladding system, False ceiling, Partitions etc. as applicable is included in the scope of work of the Contractor. Installation or execution of the works shall be in accordance with approved drawings.

1.2.4 Co-ordination

Contractor shall do all required co-ordination activities with other Contractors and agencies, Owner, Project Management Consultant (PMC) etc for smooth, sequential and complete execution works.

1.2.5 Preparation and submission of “As-built” drawings

Contractor shall prepare “As-built” mark-up prints on construction drawings and subsequently update the same in soft copy (Auto CAD) of the drawings. Contractor shall submit hard copy and soft copy to Engineer-in-charge as specified elsewhere in this Bid package.

1.2.6 Approvals from statutory Authorities

Contractor shall perform all liaising & co-ordination activities with required parties, Authorities etc. as required for obtaining approvals from Statutory Authorities.

1.2.7 Incidental works

Any other incidental works such as cleaning, cutting chases or holes, making good of the damaged works, protection of works, handing over the works in acceptable condition, which are not specifically mentioned but required for completion of work are also included in the scope of work of Contractor.



2.0 SCOPE OF SUPPLY

2.2 Owner's scope of supply

- Nil

2.3 Contractor's scope of supply

- Refer clause 1.2.2 above

3.0 LIST OF ATTACHMENTS

3.1 Job Specification

For Architectural works of items of DSR (Delhi Schedule of Rates) 2023, and latest CPWD Specifications shall be followed.

3.2 Drawings

3.2.1 Typical Boundary Wall

S. No.	Drawing No.	Drawing Title
1.	C098-000-81-46-02101	TYPICAL TYPE BOUNDARY WALL DETAIL

3.2.2 Ornamental Boundary wall

S. No.	Drawing No.	Drawing Title
1.	C098-000-81-46-02201	ORNAMENTAL TYPE BOUNDARY WALL DETAIL

3.2.3 Watch Tower

S. No.	Drawing No.	Drawing Title
1.	C098-000-81-46-02301	WATCH TOWER PLAN & ELEVATION
2.	C098-000-81-46-02304	WATCH TOWER (25' HT) PLAN & ELEVATION
3.	C098-000-81-46-02305	WATCH TOWER (27' HT) PLAN & ELEVATION

3.3 Vendor List

For Vendor List of Architectural works refer attached Document with the bid.



3.4 Schedule of Rates/ Quantities

For schedule of rates of Architectural works refer Document Number

C098-000-81-46-CD-SOR-8105

4.0 PREAMBLE TO SCHEDULE OF QUANTITIES

- 4.1 Works shall be executed in accordance with Item description, corresponding specification, standards, drawings and as directed by Engineer-In-Charge. For CPWD or DSR or local PWD items, corresponding specification shall be referred.
- 4.2 Quantities of the items are not final and may vary; actual quantities executed shall be paid.
- 4.3 All the items included in the schedule of quantities may not be executed.
- 4.4 Materials shall conform to items, specifications, standards and shall be as approved by Owner or PMC or Engineer-In-Charge. Materials shall be procured from approved Manufacturer or vendor, list of which is included in the Tender or contract document.
 - 4.4.2 Only 'first' quality materials shall be used.
 - 4.4.3 Owner/ PMC reserve the right to choose any of the approved make/ vendors as per the vendor or Manufacturer's list.
 - 4.4.4 In case of products not indicated in the vendor list, BIS marked products shall be used.
 - 4.4.5 Specification of manufacturer's item shall be checked against tender items and specifications before selecting any product or brand name. In case of any discrepancy, tender item/ specifications shall prevail, and any such brand of item shall not be used which is not conforming to tender specifications even if it is listed in this vendor list.
 - 4.4.6 In case of non-availability of any material among approved vendors/ makes in a particular site or region, alternate vendor/ make conforming to national or international codes shall be used subject to approval by owner/ PMC.
 - 4.4.7 In case of non-availability of any vendor among approved vendors in a particular site/ region, alternate vendor's name shall be proposed along with required credentials for Owner/ PMC approval.
 - 4.4.8 In case of any product neither covered in the vendor list nor having specifications, the contractor shall submit the proposed product along with technical literature/ specifications (as/ bid), test certificates etc. and other credentials of the manufacturer for Owner/ PMC approval.

SCOPE OF WORK FOR STRUCTURAL WORKS

**PROJECT: BALANCE WORKS FOR CONSTRUCTION
OF BOUNDARY WALL AROUND SHRI RAM
MANDIR COMPLEX IN AYODHYA**

CLIENT : RAM JANMABHOOMI TRUST.

JOB NO : C098

TENDER NO. C098-000-81-41-CD-T-8105

A	08-05-2026	ISSUED FOR TENDER	RK	AM	AH
Rev. No	Date	Purpose	Prepared by	Checked by	Approved by

1.0 SCOPE OF WORK

The overall scope of work in general shall include construction & execution of Civil & Structural works for RCC Boundary wall, Watch Towers and any other associated works at Shri Ram Janmabhoomi Complex Ayodhya as per the broad & detailed scope of work, scope of Material Supply, Schedule of Rates, tender specifications, drawings, codes, standards, good engineering practice and directions of Engineer- in-Charge etc. complete.

The scope of works has been elaborated in detail under subsequent sections of this document as well as respective schedule of rates (SORs).

Contractor shall visit the sites to ascertain actual site conditions to quantify/ assess the job himself before quoting rates. No extra claim at a later date shall be entertained due to non-familiarization of site.

1.1 BROAD SCOPE OF WORK

- I. Construction of RCC Boundary wall for balance peripheral length (approx. 0.75 km) of the complex.
- II. Construction of Watch towers (Tentative 6 numbers).
- III. Any other associated works.

1.2 DETAIL SCOPE OF WORK

Major Civil Structural activities are listed as below shall include but not limited to the following;

- i) Earthwork in excavation & filling in all types of soil, excluding soft rock & hard rock including clearing, stripping, uprooting of bushes, grass, other vegetation and removal of rubbish from work sites for general site grading including de-watering below ground level.
- ii) Backfilling with available good excavated/borrowed earth as approved or directed by the Engineer-in-Charge.
- iii) Disposal of surplus earth, debris and rock material to the area designated by the Engineer-in-Charge.
- iv) PCC works including lean concrete below foundations of all types as per drawing/specifications.
- v) RCC work in foundations at all depths below plinth level and all heights above plinth level, including centering, shuttering etc. at different stages of concreting.
- vi) RCC Piling works as per AFC drawings & Geotech specification.
- vii) Cutting of RCC piles & building pile heads as per specification/AFC drawings.
- viii) Supply, cutting, bending, binding, fixing of reinforcement of grade Fe500D (TMT) for RCC works in sub-structure at all depths and in super-structure at all heights.

- ix) Centering & shuttering (including curved shuttering) in sub-structure at all depths and in super-structure at all heights.
- x) Providing construction joints, expansion joints, sealing joints etc. as per AFC drawing.
- xi) Brick masonry work above plinth level and below plinth level as per approved drawing/specifications.
- xii) Expansion gap shall be provided at specified interval along the length of boundary wall as specified in drawing.
- xiii) Damp proof course (DPC) work as per AFC drawing/Specification wherever required.
- xiv) Structural steel work above plinth level as per approved structural drawing.
- xv) Providing & fixing miscellaneous steel items like Anchor Bolts, Chequered plates & grating etc. on structures as per AFC drawing.
- xvi) Preparation of Bar Bending Schedule as per AFC drawings.
- xvii) Dismantling/Demolishing of PCC, RCC, masonry (brick/block/stone), structural steel works etc. including disposal of unserviceable item and stacking & depositing of serviceable items in Owner's yard / location as directed by Engineer-in-Charge
- xviii) Wherever required existing fencing and its foundations shall be dismantled for construction of new boundary wall. Temporary fencing shall be constructed at suitable location there, using 'already fabricated steel fence part' (dismantled/removed from existing fencing) for the construction period to enclose the property complex as directed by engineer in-charge. Dismantling & removal of old and temporary fencings shall be done after the new RCC boundary wall constructed.
- xix) Providing plastering on masonry works, wherever required.
- xx) Providing and finishing walls with paint of required shade as per architectural drawings/specification.
- xxi) Removal of scrap generated during construction including segregation of scrap into serviceable and unserviceable material and transportation of serviceable material to Owner's storage.
- xxii) Clearing the site and removal of debris/unserviceable material from the site after completion of work and disposal of the same at a designated area as directed by Engineer- in- charge.
- xxiii) Preparation of AS-BUILT mark-up prints on AFC drawings and subsequent updating of the same in soft copy (Auto Cad) of AFC drawing and submission of hard copy and soft copy to Engineer-in-charge as specified elsewhere in this Bid package.

Any other Works, not specifically mentioned herein, but required for the satisfactory and successful completion of the project as per directions of the Engineer-in-Charge shall also be in the scope of the contractor.

2.0 SCOPE OF SUPPLY

2.1 Owner's Scope of Supply

Nil

2.2 Contractor's Scope of Supply

Procurement and supply of all materials (consumables/ non-consumables) including all tools, tackles and labours required for completion of the works shall be in the scope of the Contractor.

3.0 SPECIFIC REQUIREMENTS TO BE FULFILLED BY THE CIVIL CONTRACTOR

3.1 Mandatory use of mechanical excavators for excavation, however manual excavation for minor foundation can be taken up after due approval of Engineer-in-Charge.

3.2 Structural concrete mix shall be approved Design Mix.

3.3 Minimum grade of RCC shall be M30 for both super structure & sub structure.

3.4 Self-compacting concrete shall be used only for RCC works of the wall of Boundary wall structure.

3.5 Normal RCC shall be used in pile cap of boundary wall, Watch tower and other construction.

3.6 Reinforcing steel shall be high strength deformed steel bars of grade Fe500D conforming to IS: 1786.

3.7 Ordinary Portland cement / Portland Slag Cement / Portland Pozzolana cement shall only be considered.

3.8 Aluminium shuttering panels with in-built molding in the panel itself as per the embossing design as specified in architectural drawings shall be used for RCC wall shuttering above existing ground level or Road top level as specified in drawing. Embossing design with proper finishing shall be made in the RCC wall during concrete works only through the shuttering panel itself.

Before to take up actual construction of boundary wall, a RCC mockup wall of one panel (4.0 m length) of actual height & thickness shall be constructed using the aluminium shuttering to showcase the quality of finishing of embossment. Actual boundary wall construction can be carried out once the mockup wall is accepted w.r.t architectural embossing design/finishing by the engineer in charge/client.

3.9 Fabrication of anchor bolts shall be taken up on priority to ensure placement of the same at the time of concreting.

3.10 The exposure condition for the tender shall be considered as severe.

3.11 The contractor shall ensure the required founding strata confirming to soil recommendation for all foundations and bring it to the notice of Engineer-in-charge if the founding depth encountered is different from that specified in the drawings.

3.12 In the bottleneck areas i.e where there is any adjacent buildings or other structure standing very close to boundary wall, precautionary measures shall be taken during excavation & other construction activities so that those buildings/habitats remain safe.

- 3.8 Dewatering wherever required shall be carried out by the contractor at his own cost.
- 3.9 Location for disposal of surplus earth, debris & rock outside mandir complex shall be identified by the contractor. Contractor shall take relevant statutory approval from all statutory authorities (like municipal etc.) and including payment of charges/royalty for the same. Contractor shall keep client indemnified of any liability and/or complaint from local authorities /municipal bodies.
- 3.10 During the performance of the work, the contractor at his own cost, shall keep structures, materials and equipment adequately braced by guys, struts or otherwise approved means which shall be supplied and installed by the Contractor as required till such time the installation work is satisfactorily completed. The provided guys, shoring, bracing, strutting, planking supports etc. shall not interfere with the work of other agencies and shall not damage or cause distortion to other works executed by him or other agencies.
- 3.11 Various tolerances required as marked on the drawings conform to codal requirements and as per specifications and as directed the Engineer-in-Charge shall be maintained. Verticality shall be maintained at every stage and the same shall be verified with theodolite /total Station.
- 3.12 All works shall be done to the entire satisfaction of the Engineer-in-Charge. Any work not carried out in accordance with the instructions shall be dismantled and made good without any extra cost and time implication to the owner.
- 3.13 The contractor shall ensure proper co-ordination / co-operation with other agencies, while working in the area, without affecting others work front areas.
- 3.14 Contractor shall handover the materials of MS Pipe, angles, channels, concentrina wire, barbed wire, reinforcement bars etc. obtained after dismantling of the existing structures (Steel fence, Watch Tower etc.) as is where is basis to the Owner/Client during execution, coming under the scope area of this tender.
- 3.15 All the materials/articles found during excavation works, shall remain the property of the Ram Janmabhoomi Trust/Client. Contractor to hand over those to Trust/Client.
- 3.16 Temporary relocation of CCTV systems during construction activities including obtaining necessary permissions from security personnel, client and local authorities, and reinstating the systems upon completion shall be carried out as directed by the Engineer-in-Charge.
- 3.17 Contractor shall comply with 'Client's gate pass system' & 'Vehicle permit system/rules' prevailing at the project site for staff, labour and materials. All such prevailing rules and regulations are to be complied by Contractors without any time and cost impact to EIL/Client.
- 3.18 In case of any contradiction between these Specific Requirements and Requirements/ Specification specified elsewhere in the tender document, the Specific Requirements given here shall have precedence.

4.0 REFERENCE SPECIFICATIONS & ATTACHMENTS TO FOLLOW.

4.1 SPECIFICATIONS

S.NO.	Specification Title	
1.	CPWD SPECIFICATION(VOL-1)	
2.	CPWD SPECIFICATION(VOL-2)	

4.2 STANDARD SPECIFICATIONS

Sl. No	Specification Number	Rev	Sheets	Title
1.	6-68-0002	7	17	Standard specification civil and structural works materials.
2.	6-68-0004	8	31	Standard specification civil and structural works plain and reinforced cement concrete
3.	6-68-0019	2	33	Standard specification civil and structural works self-compacting concrete (SCC)
4.	6-82-3100	1	65	Inspection & test plan (ITP) for civil, structural & architectural works (item rate contracts – with categorization)
5.	6-82-6100	3	13	Standard Quality Assurance Plan - Construction Division (Item Rate Contracts)

4.3 LIST OF DRAWINGS

Sl. No	Drawing Number	Rev	Sheets	Title
1	C098-000-81-41-06401	0	1	LAYOUT & DETAIL OF PILECAP & SUPER STRUCTURE
2	C098-000-81-41-06402	2	1	Watch Tower GA & R/F Detail
3	C098-000-81-41-SK-04	0	1	TYPICAL CROSS SECTION DETAIL OF RETAINING WALL AT ANGAD KA TILLA

5.0 PREAMBLE TO SCHEDULE OF QUANTITIES

5.1 Ground water table may encounter to the founding level or above during construction period. Ground water table may fluctuate at any time. The quoted rate of excavation shall include requirement of dewatering etc. for completion of total works including concreting, masonry works, backfilling etc. No extra amount shall be payable on this account.

5.2 In general, pile foundation shall be adopted. Pile cut off level shall be approximately 1m to 2m depth below existing ground level/Road Top level.
This data is for general guidance of the Contractors; however, deviation from the noted depth shall not form a basis for any extra claim).

6.0 SCHEDULE OF RATES

SCHEDULE OF RATES (STRUCTURAL): C098-000-81-41-CD-SOR-8105.

SPECIFIC REQUIREMENTS & SCOPE OF WORK FOR RCC PILING WORKS

TENDER NO: C098-000-81-41-CD-T-8105

**PROJECT : BALANCE WORKS FOR CONSTRUCTION OF BOUNDARY
WALL**

OWNER : RAM JANMABHOOMI TRUST

PMC : ENGINEERS INDIA LTD.

JOB NO. : C098

0	08.05.2026	ISSUED FOR TENDER	MC	RB	VKP
Rev. No	Date	Purpose	Prepared by	Reviewed by	Approved by

CONTENTS

1.0	SCOPE OF WORK.....	3
2.0	AVAILABLE INFORMATION	3
3.0	GROUND WATER TABLE.....	4
4.0	REQUIREMENT	4
4.1	Termination of Pile	4
4.2	Safe Load Carrying Capacity	4
4.3	Material	5
5.0	INSTALLATION	6
6.0	MEASUREMENT OF PILE.....	6
7.0	PILE TESTING	7
7.1	Load Test on Pile	7
8.0	LIST OF ATTACHMENT	9
	ANNEXURE-I	10

**SPECIFIC REQUIREMENTS & SCOPE OF WORKS FOR BORED CAST-IN-SITU
RCC PILING WORKS**

1.0 SCOPE OF WORK

- 1.1 The work covers supply of materials, installation & testing of straight shaft Bored cast in-situ RCC piles for the balance works for the construction of boundary wall tender along the periphery of Shri Ram Mandir Complex in Ayodhya.
- 1.2 Bidder to note that few stretches of proposed boundary wall is in a congested area. Bidder shall visit the site (before submitting the bid) to become fully acquainted with the existing site conditions and to assess execution challenges for piling (if any). The quoted rates shall be inclusive of all the associated difficulties envisaged. No separate payment shall be made for this activity.
- 1.3 Bidder to note that, access to the proposed boundary wall location is not readily available. Construction of a suitable approach, if required for piling or other activities, shall be the bidder's responsibility. The same shall be included in the quoted rates of the bidder.
- 1.4 The work involves but not limited to the following:
- a) Construction of 300mm and 450mm diameter straight shaft RCC Bored cast in-situ piles. The approximate length of piles below cut-off level and approximate number of piles are as given in Table-I.

Table-I

Unit/Area	Type of Pile	Dia. of Pile (mm)	Approx. no. of Piles	Approx. length below COL ¹ (m)
Boundary wall location	Bored cast in-situ	300	960	9
		450	53	9

- b) Carrying out of Initial load tests as specified on the test piles specifically installed for the purpose and Routine load tests as specified on job piles randomly selected by Engineer-in-charge.

2.0 AVAILABLE INFORMATION

For broad guidance of the Bidder about the sub soil profiles, the available nearby bore-logs are enclosed for reference as **ANNEXURE-I**.

¹COL=Cut-off Level

3.0 GROUND WATER TABLE

Ground water table (GWT) has not been encountered during the period of soil investigation upto the depth of exploration (i.e., 10m). However, during rainy season ground water table may rise substantially.

4.0 REQUIREMENT

All work shall be carried out in accordance with the specifications enclosed herewith, relevant standard code of practice and contractor shall ensure minimum requirements as laid down hereunder:

4.1 Termination of Pile

Piles shall be terminated in silty clay/silty sand layer with **minimum pile length of 9m below COL.**

Bidder to note that, filled up soil upto substantial depth is observed in the borelogs. Bidder to ensure that pile shall be terminated in natural ground with minimum 2m embedment in natural soil subject to a minimum length of 9m below COL. If filled-up soil is encountered at the termination level, bidder shall inform Engineer-in-charge about the same and length of pile shall be increased taking due cognizance of the extent of filled up soil. Payment for the increase in pile length (if any) shall be done as per relevant item in schedule of rates.

4.2 Safe Load Carrying Capacity

The estimated safe capacities for 300mm and 450mm diameter piles are given below in Table-II.

Table-II

Type of Pile	Dia. of Pile (mm)	Safe Capacity of Pile (MT)		
		Axial Compression	Horizontal Shear	Uplift
Bored cast in-situ	300	12	1	4
	450	25	2	4

Notes:

- The contractor shall guarantee the above safe load of piles as minimum. The Pile capacities shall be established at site by carrying out Load test on test piles and job piles as per EIL standard specification no.6-74-0013 enclosed/IS Code.

- ii) For pile capacity calculation Cut off Level (C.O.L.) assumed at 1.5m depth below Finished Ground Level (FGL). However, exact cut off level (C.O.L) shall be as per the AFC drawings.

4.3 Material

Materials shall conform to EIL standard specification no. 6-74-0006 enclosed and forming a part of the tender.

4.3.1 Concrete

The concrete shall have a minimum strength of 30 N/mm^2 at 28 days. The cement for concrete shall be Ordinary Portland/Portland Pozzolana/Portland Slag cement. The cement content for concrete shall not be less than 400 kg/m^3 with maximum water-cement ratio 0.45. The allowable slump shall be as per relevant IS (IS: 2911 Part I / Sec.2) code. The Engineer-in-charge may allow marginal adjustment in water / cement ratio to obtain concrete of good workability. The other concrete specification shall be as per relevant clauses of "Standard Specification" Design, Construction & Installation of Bored cast-in-situ piles (EIL Specification No. 6-74-0011), which form part of this document.

4.3.2 Reinforcement

Reinforcement shall be high strength deformed bars of grade Fe500D conforming to IS: 1786 (latest revision). The reinforcement in the pile shall consist of the following:

i) Longitudinal Reinforcement

For 300mm piles: Main reinforcement in the piles shall be 4 nos. 12mm diameter up to termination depth of pile.

For 450mm piles: Main reinforcement in the piles shall be 5 nos. 16mm diameter up to termination depth of pile.

ii) Stirrups

Stirrups in the form of helical / circular shall be of 8 mm diameter at a spacing of about 150mm C/C shall be provided throughout the length of pile.

iii) Cover

Clear cover to reinforcement shall be 45mm.

iv) Stiffeners

Stiffener bar shall be of 16 mm diameter at a spacing of about 1.5m C/C shall be provided throughout the length of pile.

5.0 INSTALLATION

- 5.1 Installation of piles shall be carried out in accordance with the pile lay out drawings which shall be available to the contractor at the time of execution of work. Bidder to note that, installation shall be carried out around the existing operating structures/facilities in the plant area. Methodology for execution and installation is in the scope of the bidder and shall be firmed up taking safety and site constraints under consideration.
- 5.2 The equipment for installation of piles shall also be selected based on the site constraints and subsoil conditions.
- 5.3 Bidder to note that, the subsoil consists of filled up soil up to a substantial depth. Bidder shall make all necessary arrangements to prevent collapse of boreholes & loss of concrete prior to and during piling activities. No separate payment shall be made for this activity.
- 5.4 Cut-off level of the piles shall correspond to those given in the working drawings.
- 5.5 To ensure dense and sound concrete upto cut-off level, concreting shall extend 750mm above cut-off level. However, no extra payment shall be made for this and quoted rates shall be inclusive of this.
- 5.6 The reinforcement cage shall essentially consist of a single segment. If, for any reason, the reinforcement cage is made up of more than one segment, the bars shall be assembled by welding only, before lowering, as per IS: 456-2000 by providing necessary laps.
- 5.7 The vertical reinforcement shall project 50 times its diameter above the cut -off level.
- 5.8 Pile shall be constructed by continuous mud circulation technique and the concrete shall be placed by tremie. All precautions for obtaining clean and sound pile shaft shall be strictly observed.
- 5.9 For tremie concreted piles, a sample of drilling fluid shall be taken from the base of the borehole by means of an approved sampling device in the first few piles and at suitable interval of piles thereafter. Concreting shall not proceed if density of fluid exceeds 1250 kg/m³. The sand content in the fluid shall not exceed 7 percent.

6.0 MEASUREMENT OF PILE

- 6.1 The piles shall be measured and paid for the actual pile length from pile tip to the cut off level, given in the working drawings or as indicated by the Engineer-in-charge. No extra payment shall be made for concreting above cut-off level.
- 6.2 Payment for routine load tests which shows unsatisfactory results shall not be made.
- 6.3 Piles showing unsatisfactory results shall be treated as defective piles. Defective piles shall be removed or left in place and replaced by additional piles as directed by Engineer-in-charge at no additional cost to the owner.

6.4 Reaction piles, if required for the purpose of conducting load tests on piles shall not be paid extra. Quoted rate for tests shall be inclusive of this. However, for routine lateral and uplift tests, if required, job piles may be used as reaction piles.

6.5 Initial test pile quantities shall be paid as per relevant item of job pile.

7.0 PILE TESTING

7.1 Load Test on Pile

7.1.1 Initial Load Test

- i) Prior to commencement of the job piling, initial load tests shall be done.
- ii) The contractor shall be allowed to proceed with job piling only after successful completion of the initial tests to the satisfaction of the Engineer-in-charge. Test load shall be 3 times the design load. Location of the test piles shall be indicated on working drawings by the Engineer-in-charge. The number of such tests is given in the schedule of quantities.

7.1.2 Routine Load Test

Routine load tests shall be carried out up to one and half times the design load. The piles for the test shall be randomly selected by the Engineer-in-charge. The number of routine load tests are mentioned in the schedule of quantities.

7.1.3 Pile Load Test Details

- i) For pile load tests, the test set up shall be as per IS: 2911 Part IV and "Specifications for testing of concrete piles", EIL standard specification no. 6-74-0013.
- ii) All testing shall be done by Direct method of loading in successive increments, as per the relevant clauses of IS 2911 Part IV and EIL standard specification no. 6-74-0013.
- iii) Each stage of loading shall be maintained till the rate of movement is less than 0.2 mm per hour.

Test shall be carried out at the cut-off level.

7.1.4 Maximum test loads shall be as follows:

- i) Initial Vertical Pile Load test: Load corresponding to a total settlement of 10% of the pile diameter or three times the safe load, whichever occurs earlier.
- ii) Routine Vertical Pile Load test: Load corresponding to 12mm settlement or one and half times the safe load, whichever occurs earlier.

- iii) Initial Lateral Pile Load test: Load corresponding to total settlement of 12mm or three times the safe load, whichever occurs earlier.
- iv) Routine Lateral Pile Load test: Load corresponding to 5mm settlement or one and half times the safe load whichever occurs earlier.
- v) Initial Uplift Pile Load test: Load-settlement curve shows clear break or three times the safe load, whichever occurs earlier.
- vi) Routine Uplift pile load test: Load corresponding to 12 mm settlement or one and half times the safe load whichever occurs earlier.

Note: Kentledge load shall be at least 25% higher than the maximum test loads.

7.1.5 Criteria for Assessment of Safe Loads:

7.1.5.1 Safe vertical load on single pile shall be the least of the following:

- i) Two third of the final load at which the total settlement attains a value of 12mm.
- ii) 50% of the final load at which the total settlement equals to 10% of the pile diameter.

7.1.5.2 Safe lateral load on single pile shall be least of the following:

- i) 50% of the final load at which the lateral displacement equals to 12 mm.
- ii) Final load corresponding to the total displacement of 5mm.

7.1.5.3 Safe uplift load on single pile shall be least of the following:

- i) Two thirds of the final load at which the total settlement attains a value of 12 mm or the load corresponding to a specified uplift.
- ii) Half of the load at which the load deflection curve shows a clear break (downward trend).

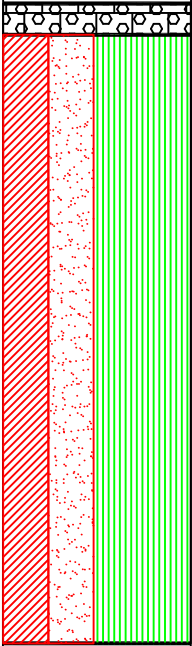
7.1.5.4 A full record of pile load test results shall be submitted in triplicate to the Engineer-in-Charge immediately on completion of each test. The record shall also include the plots of load-settlement (for various stages of loads) characteristics of pile and also the interpolation of the pile load test curve as per criteria for safe loads as mentioned in EIL standard specification no. 6-74-0013. Any special observations shall be duly recorded/explained by the contractor.

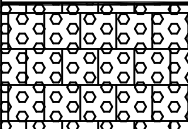
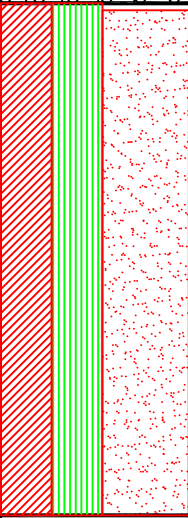
8.0 LIST OF ATTACHMENT

Standards and Specifications – Geotechnical

- | | |
|-----------|--|
| 6-74-0006 | Standard Specification for Materials for Reinforcement Concrete Piles |
| 6-74-0011 | Standard Specification for Construction and installation of RCC Bored Cast-in-situ Piles |
| 6-74-0013 | Standard Specification for Testing of Concrete Piles |

ANNEXURE-I

SWAYIN ENGINEERING ASSOCIATES Pvt. Ltd. 77, SATYANAGAR, BHUBANESWAR Web Site : www.swayinassociates.com				BORELOG DATA SHEET NAME OF PROJECT: GEOTECHNICAL INVESTIGATION FOR CONSTRUCTION OF BOUNDARY WALL AROUND THE SHREE RAM MANDIR COMPLEX IN AYODHYA OF RAM JANMABHOOMI TRUST.											
TYPE OF BORING: HYDRAULIC DRILLING				CLIENT: ENGINEERS INDIA LIMITED											
DIA OF HOLE: 150 MM		JOB NO:SA-1105				BORE HOLE NO : 01			SHEET NO:01						
COMMENCED ON: 25.05.2025		LOCATION- RAM MANDIR COMPLEX				GROUND LEVEL :107.56 M			CO-ORDINATES: N :2964445.99 E :618839.32						
COMPLETED ON: 25.05.2025															
WATER TABLE : NIL		DEPTH: 10.00 M													
DESCRIPTION OF STRATA	RL IN MTRS.	IS CLASSIFICATION	CHANGE OF STRATA IN MTRS.	DEPTH IN MTRS.	SYMBOL	SAMPLE DEPTH IN MTRS.	GRAPHICAL REPRESENTATION OF 'N' VALUES					'N' VALUES	SAMPLE		
							20	40	60	80	100		TYPE	REF NO.	
FILLED UP SOIL WITH DEBRIS WITH BUILDING MATERIALS			0.00	00.00		0.50							12	SPT	01
				1.0		DS								01	
STIFF SILTY SANDY CLAYEY				2.00		2.00							16	SPT	02
				2.50		DS								02	
				3.00		3.50							21	SPT	03
				4.00		DS								03	
				5.00		5.00							28	SPT	04
				5.50		DS								04	
				6.00		6.50							32	SPT	05
				7.00		DS								05	
				8.00		8.00							38	SPT	06
				8.50		DS								06	
B.H TERMINATION AT DEPTH 10.00 M			10.00	10.00		10.00							41	SPT	07
				11.00											
				12.00											
				13.00											
				14.00											
				15.00											
				16.00											
				17.00											
				18.00											
				19.00											
				20.00											
				21.00											
				22.00											
LEGEND:- ▽ -WATER LEVEL P- PENETROMETRE TEST, SPT- STANDARD PENETRATION TEST W- WATER SAMPLE, V- VANE SHEAR TEST C- CORE RECOVERY															
No. of disturbed sample: 06		No. of Undisturbed sample: 00				No. of Vane Shear Test : NIL									
No. of Large diameter sample: NIL		No. of CORE: 00				No. of Water Sample : 00									
		No. of SPT: 07													

SWAYIN ENGINEERING ASSOCIATES Pvt. Ltd. 77, SATYANAGAR, BHUBANESWAR Web Site : www.swayinassociates.com				BORELOG DATA SHEET											
NAME OF PROJECT: GEOTECHNICAL INVESTIGATION FOR CONSTRUCTION OF BOUNDARY WALL AROUND THE SHREE RAM MANDIR COMPLEX IN AYODHYA OF RAM JANMABHOOMI TRUST.															
TYPE OF BORING: HYDRAULIC DRILLING		CLIENT: ENGINEERS INDIA LIMITED													
DIA OF HOLE: 150 MM		JOB NO:SA-1105				BORE HOLE NO :06			SHEET NO:01						
COMMENCED ON: 30.05.2025		LOCATION- RAM MANDIR COMPLEX				GROUND LEVEL :102.62 M			CO-ORDINATES: N :2964039.28 E :619094.06						
COMPLETED ON: 30.05.2025															
WATER TABLE : NIL		DEPTH: 10.00 M													
DESCRIPTION OF STRATA	RL IN MTRS.	IS CLASSIFICATION	CHANGE OF STRATA IN MTRS.	DEPTH IN MTRS.	SYMBOL	SAMPLE DEPTH IN MTRS.	GRAPHICAL REPRESENTATION OF 'N' VALUES					'N' VALUES	SAMPLE		
							20	40	60	80	100		TYPE	REF NO.	
FILLED UP SOIL WITH DEBRIS OF BUILDING MATERIAL				0.00		0.50							02	SPT	01
				1.00		DS								01	
SILTY CLAYEY SAND				2.00		2.00							03	SPT	02
				2.50		DS								02	
				3.50		06								SPT	03
				4.00										DS	03
				5.00										08	SPT
				5.50		DS									04
				6.50		11									SPT
				7.00										DS	05
				8.00										16	SPT
				8.50		DS									06
10.00	21	SPT	07												
B.H TERMINATION AT DEPTH 10.00 M				10.00		10.00									
LEGEND:- ▽ -WATER LEVEL															
P- PENETROMETRE TEST,				SPT- STANDARD PENETRATION TEST				W- WATER SAMPLE,							
				V- VANE SHEAR TEST				C- CORE RECOVERY							
No. of disturbed sample: 06		No. of Undisturbed sample: 00		No. of Vane Shear Test : NIL											
No. of Large diameter sample: NIL		No. of CORE: 00		No. of Water Sample : 00											
		No. of SPT: 07													

SWAYIN ENGINEERING ASSOCIATES Pvt. Ltd. 77, SATYANAGAR, BHUBANESWAR Web Site : www.swayinassociates.com BORELOG DATA SHEET NAME OF PROJECT: GEOTECHNICAL INVESTIGATION FOR CONSTRUCTION OF BOUNDARY WALL AROUND THE SHREE RAM MANDIR COMPLEX IN AYODHYA OF RAM JANMABHOOMI TRUST.															
TYPE OF BORING: HYDRAULIC DRILLING		CLIENT: ENGINEERS INDIA LIMITED													
DIA OF HOLE: 150 MM		JOB NO:SA-1105				BORE HOLE NO : 07			SHEET NO:01						
COMMENCED ON: 29.05.2025		LOCATION- RAM MANDIR COMPLEX				GROUND LEVEL :101.20 M			CO-ORDINATES: N :2963867.19 E :618831.17						
COMPLETED ON: 29.05.2025															
WATER TABLE : NIL		DEPTH: 10.00 M													
DESCRIPTION OF STRATA	RL IN MTRS.	IS CLASSIFICATION	CHANGE OF STRATA IN MTRS.	DEPTH IN MTRS.	SYMBOL	SAMPLE DEPTH IN MTRS.	GRAPHICAL REPRESENTATION OF 'N' VALUES					'N' VALUES	SAMPLE		
							20	40	60	80	100		TYPE	REF NO.	
FILLED UP SOIL WITH DEBRIS OF BUILDING MATERIAL				0.00		0.50							01	SPT	01
				1.00		1.0									DS
				2.00		2.00							02	SPT	02
				2.50		2.50									DS
SILTY CLAYEY SAND				3.00		3.50							09	SPT	03
				4.00		4.00									DS
				5.00		5.00							15	SPT	04
				5.50		5.50									DS
				6.00		6.50							19	SPT	05
				7.00		7.00									DS
				8.00		8.00							24	SPT	06
				8.50		8.50									DS
B.H TERMINATION AT DEPTH 10.00 M				10.00		10.00							28	SPT	07
				11.00											
				12.00											
				13.00											
				14.00											
				15.00											
				16.00											
				17.00											
				18.00											
				19.00											
				20.00											
				21.00											
				22.00											

LEGEND:- ▽ -WATER LEVEL

P- PENETROMETRE TEST,

SPT- STANDARD PENETRATION TEST

V- VANE SHEAR TEST

W- WATER SAMPLE,

C- CORE RECOVERY

No. of disturbed sample: 06	No. of Undisturbed sample: 00	No. of Vane Shear Test : NIL
No. of Large diameter sample: NIL	No. of CORE: 00	No. of Water Sample : 00
	No. of SPT: 07	

SWAYIN ENGINEERING ASSOCIATES Pvt. Ltd. 77, SATYANAGAR, BHUBANESWAR Web Site : www.swayinassociates.com				BORELOG DATA SHEET NAME OF PROJECT: GEOTECHNICAL INVESTIGATION FOR CONSTRUCTION OF BOUNDARY WALL AROUND THE SHREE RAM MANDIR COMPLEX IN AYODHYA OF RAM JANMABHOOMI TRUST.										
TYPE OF BORING:		HYDRAULIC DRILLING		CLIENT: ENGINEERS INDIA LIMITED										
DIA OF HOLE:		150 MM		JOB NO:SA-1105				BORE HOLE NO : 08		SHEET NO:01				
COMMENCED ON:		10.05.2025		LOCATION- RAM MANDIR COMPLEX				GROUND LEVEL :100.67 M		CO-ORDINATES: N :2964067.13 E :618508.28				
COMPLETED ON:		10.05.2025												
WATER TABLE :		NIL		DEPTH: 10.00 M										
DESCRIPTION OF STRATA	RL IN MTRS.	IS CLASSIFI- CATION	CHANGE OF STRATA IN MTRS.	DEPTH IN MTRS.	SYMBOL	SAMPLE DEPTH IN MTRS.	GRAPHICAL REPRESENTATION OF 'N' VALUES					'N' VALUES	SAMPLE	
							20	40	60	80	100		TYPE	REF NO.
FILLED UP SOIL WITH DEBRIS OF BUILDING MATERIALS				0.00		0.50		08	SPT	01				
				1.0		DS					01			
				2.00		2.00		11	SPT	02				
				2.50		DS					02			
				3.00		3.50		18	SPT	03				
				4.00		DS					03			
				4.50		5.00		25	SPT	04				
				5.50		DS					04			
SILTY CLAYEY SAND				6.00		6.50		34	SPT	05				
				7.00		DS					05			
				8.00		8.00		35	SPT	06				
				8.50		DS					06			
B.H TERMINATION AT DEPTH 10.00 M				10.00		10.00		38	SPT	07				
				11.00										
				12.00										
				13.00										
				14.00										
				15.00										
				16.00										
				17.00										
				18.00										
				19.00										
				20.00										
				21.00										
				22.00										
LEGEND:- ▽ -WATER LEVEL P- PENETROMETRE TEST, SPT- STANDARD PENETRATION TEST W- WATER SAMPLE, V- VANE SHEAR TEST C- CORE RECOVERY														
No. of disturbed sample: 06		No. of Undisturbed sample: 00		No. of Vane Shear Test : NIL										
No. of Large diameter sample: NIL		No. of CORE: 00		No. of Water Sample : 01										
		No. of SPT: 13												



SCOPE OF WORK AND SUPPLY (GENERAL CIVIL)

PROJECT : BALANCE WORKS FOR CONSTRUCTION OF
BOUNDARY WALL AT AYODHYA.

OWNER : SRI RAM JANMBHOOMI TEERTH KSHETRA
TRUST

CONSULTANT : ENGINEERS INDIA LIMITED

JOB NO. : C098

Tender No. : C098-000-81-41-CD-T-8105

A	08.05.2026	ISSUED FOR TENDER	SY	AR	AR
Rev No.	Date	Purpose	Prepared by by	Checked by	Approved by



CONTENTS

1.0	BRIEF SCOPE OF WORK	3
2.0	DETAILED SCOPE OF WORK	3
2.1	SCOPE OF WORK – GENERAL CIVIL WORKS	3
3.0	SCOPE OF SUPPLY	7
3.1	OWNER’S SCOPE OF SUPPLY.....	7
3.2	CONTRACTOR’S SCOPE OF SUPPLY	7
4.0	SPECIFIC REQUIREMENTS TO BE FULFILLED BY THE CONTRACTOR.....	8
5.0	LIST OF ATTACHMENTS:	8
5.1	EIL STANDARDS:	8
5.2	SPECIFICATIONS:.....	8
6.0	PREAMBLE TO SCHEDULE OF QUANTITIES	9
7.0	SCHEDULE OF RATES:	10



1.0 BRIEF SCOPE OF WORK

The scope of work under this contract shall in general include (but not limited to), general civil work for site grading, supply, construction and installation//erection of boundary wall including Razor Blade Wire mesh, MS supports, walkway footpath and miscellaneous civil works etc, at Sri Ram Mandir complex in Ayodhya including supply of all materials (as defined in scope of supply), tools & tackles, labour, etc., as per the Schedule of rates, Specifications, Standards, drawings included in the Bid Document / as per directions of Engineer-in-charge / as per approved for construction drawings made available to the successful bidder.

2.0 DETAILED SCOPE OF WORK

The work shall be executed as follows:

- Construction of boundary wall for the peripheral tentative length of 0.750km (approx.) of the complex
- Construction of pedestrian walkway, watch towers and associated General Civil works.

2.1 SCOPE OF WORK – GENERAL CIVIL WORKS

Major Civil activities to be carried out are as follows:

S. No.	Type of work/structure	Activity
1	RCC Compound Wall at Ram Mandir Complex, Ayodhya.	General Civil work with respect to, jungle/vegetation clearance, site grading, supply and installation/erection of Razor Blade Wire mesh, MS supports, construction of pedestrian walkway along the boundary wall and miscellaneous civil works etc as per drawings/specification and direction of Engineer -In -Charge.

Detailed scope of work for Civil activities involved shall include, but not be limited to, the following:



- 1) Clearing, stripping of the site area, including uprooting of bushes, grass, other vegetation and removal of rubbish, surplus earth and debris from work sites.
- 2) Earthwork in excavation for general site grading for all heights and depths in all kinds of soil except soft and hard rock.
- 3) Earthwork in filling for general site grading, roads, drains/culverts, pits, etc., with earlier excavated serviceable earth or available/borrowed good soil at all depths, including transportation.
- 4) Backfilling at all depths with available/borrowed good soil and transportation of surplus earth, debris, etc. to the area designated by the Engineer-in-Charge/owner outside the Ram Janmabhoomi area complex.
- 5) Disposing of the surplus earth, debris and unserviceable materials beyond the Ram mandir temple boundary at a suitable location duly approved/designated by the Engineer-In-Charge and segregating & stacking the serviceable materials within the boundary limit as per specifications and directions of the Engineer-in-Charge/Owner.
- 6) Micro-grading of the area under the scope of work after completion of all activities.
- 7) Supply and Construction/erection of Razor Blade wire mesh fencing over the boundary wall, including supply of all materials.
- 8) Supply, installation/fixing of MS supports post over the boundary wall.
- 9) Construction of boundary wall coping as per the direction of the Engineer-In-Charge.
- 10) Dismantling of existing barbed wire/chain-link fencing & concertina fencing & supply and construction/erection of Wire Mesh per direction of Engineer-In-Charge.
- 11) Construction of random rubble stone pitching and brick masonry works in the substructure & superstructure.
- 12) PCC works, including lean concrete at all depths below the footpath.
- 13) Construction of pedestrian footpath, including preparation of subgrade, subbase and base course, including supply of all materials.



- 14) Preparation of footpath subgrade and subbase layer, including rolling, compaction, etc., as per drawing/specification.
- 15) Supply and laying of paver block, gravel and WMM/WBM as per specification /drawing and as per direction of Engineer-In-Charge.
- 16) Construction of electrical road crossing (ERC)& instrumentation road crossing (IRC), including supply of all materials.
- 17) Providing cement mortar grouting for filling the space between the pipe body and concrete wall or any other place as required.
- 18) Construction of RCC Box/pipe culvert as per the direction of the Engineer-In-Charge.
- 19) Existing underground services/facilities, viz., pipes, cables, trenches, foundation, etc., are to be duly protected during excavation/dismantling activities, and the same are to be restored in place to the original condition after completion of works as per the direction of Engineer-In-Charge/Owner.
- 20) Supplying, transporting and erecting in position Plain Cement Concrete Pre-cast elements such as kerb stones for road/footpath, etc., including all moulds, centering and shuttering, vibrating, tamping, curing, chamfering, etc., wherever required, all complete.
- 21) Providing cement plaster on brick walls/stone masonry/pitching or on concrete surface for manholes, valve pits, drains, culverts, wing walls, etc., including cleaning and preparation of the surfaces, scaffolding, curing, etc., for all depths and heights, all complete.
- 22) Construction of pipe culverts with NP2/NP3 RCC pipes, including excavation, PCC, brickwork laying of pipes, jointing, backfilling, disposal of surplus earth, etc., interconnection with existing drains/canals/water bodies, etc., as required.
- 23) Supply and installation of pipe sleeve in road crossing, walkway crossing, etc.
- 24) Concrete bedding and encasement of underground pipes wherever required.
- 25) Providing underground and above-ground water supply and building drainage works for internal plumbing and sanitary works for watch towers building at Ayodhya, water supply in buildings and toilet blocks, etc., consisting of



supplying and erection/laying of CPVC/GI piping, valves, overhead tanks, valve pit/chamber, etc. The contractor's scope also includes taking domestic/ potable water & flushing water tapping/connection from the existing available water supply header and extending the same up to the buildings as per the scope of this tender. External general civil works shall be executed as per drawings issued to the contractor. Design/detail engineering, including design calculations, detail drawings, etc., for internal plumbing & drainage works of all buildings shall be prepared & reviewed by the contractor and approved by the Engineer-in-charge, before execution. No extra payment shall be made to the Contractor for the same.

- 26) Supply, installation, testing and commissioning of underground & above ground domestic water/drinking water, flushing water, piping network as per drawing, specifications.
- 27) Carrying out the underground/above-ground interconnection for domestic/flushing water supply and sewerage system with the existing/running network as per the direction of the Engineer-In-Charge/Owner.
- 28) Supply, installation and testing of internal sewerage in the building and external sewerage network, including laying of underground sewerage pipes, construction of manholes, pits, supply & installation of manhole covers, etc., as per drawing & specification and as per direction of Engineer-in-charge.
- 29) Supply, installation, testing and commissioning of overhead tank(s) for domestic storage as per drawing and specification.
- 30) Site topographical survey report/drawing shall be provided to the successful bidder.
- 31) Preparation of detailed drawing/documents and as-built drawings in soft copy (AutoCAD) and submission of hard copy (6 sets) and soft copy to the Engineer-in-charge.
- 32) Obtaining statutory approvals during execution from local bodies & competent authorities, including coordination/liasoning with officials and other designated authorities, as required.



- 33) Clearing the site and removal of all debris/unserviceable material from the site after completion of work and disposal of the same outside the Shri Ram Mandir Complex at the designated location as directed by the Engineer-in-Charge/Owner.
- 34) Any other civil work, not specifically mentioned herein, but required for the satisfactory completion of Civil and Structural works as per directions of the Engineer-in-Charge, shall also be in the scope of the contractor.
- 35) It shall be clearly understood that all the works mentioned above, together with all the incidental works whether specifically mentioned or not, shall be deemed to have been included in the scope of work.
- 36) Any other Civil-Structural /Mechanical work as specified elsewhere in the tender documents.
- 37) The contractor shall visit the site and acquaint themselves with the actual site condition to quantify/ assess the job themselves before quoting rates. No extra claim at a later date shall be entertained due to non-familiarisation with the site conditions.
- 38) All above-mentioned works shall be carried out as per drawings, standards, specifications, national/international codes, good Engineering practices, manufacturer's recommendations and directions of the Engineer-In-Charge.

3.0 SCOPE OF SUPPLY

3.1 OWNER'S SCOPE OF SUPPLY

Nil.

3.2 CONTRACTOR'S SCOPE OF SUPPLY

The procurement and supply of all materials, consumables and hardware, etc., including necessary tools and tackles, labour, and machinery required for the completion of the works shall be in the scope of Contractor within the quoted rates.



4.0 SPECIFIC REQUIREMENTS TO BE FULFILLED BY THE CONTRACTOR

Note: In case of any contradiction between these Specific Requirements and Requirements/ Specification specified elsewhere in the tender document, the Specific Requirements given below shall have precedence.

- Various tolerances required as marked on the drawings conforming to codal requirements/specifications or as directed by the Engineer-in-Charge shall be maintained by the Contractor. Verticality shall be maintained at every stage, and the same shall be verified with the Theodolite/ Total Station.
- All works shall be done to the entire satisfaction of the Engineer-in-Charge. Any work not carried out as per the instructions of the Engineer-in-Charge shall be dismantled, and fresh construction shall be carried out without any extra cost and time implication to the owner.
- The contractor has to take necessary precautions/safety measures for existing underground facilities and structures above the ground level. Further, the contractor shall take necessary work permits from the owner to carry out the civil & structural works.

5.0 LIST OF ATTACHMENTS:

The following Standards/Specifications are to be followed for executing the works: -

5.1 EIL STANDARDS:

Sl. No.	Document No.	Rev	Title of document
1.	7-65-0001	5	Abbreviations and Legends
2.	7-65-0006	5	Cable crossings under road (PVC pipes)
3.	7-65-0008	5	Pipe sleeve detail
4.	7-65-0213	6	Conc. bedding and encasement for pipes

IRC/CPWD /NBC/CPHEEO Standards/guidelines are to be followed.

5.2 SPECIFICATIONS:

Sl. No	Specification No.	Rev	Title
1	6-65-0014	2	Standard specification for roads and flexible pavements (up to WMM layer)



Sl. No	Specification No.	Rev	Title
2	6-65-0016	4	Standard specification for classification of soil for earthwork in site grading.
3	6-65-0017	6	Standard specification for site grading and rock cutting for site grading
4	6-65-0018	8	Standard specification for roads and flexible pavements (up to WBM layer)
5	6-65-0021	4	Standard specification for pipe culverts and ERC / IRC crossing.

IRC/CPWD /NBC/CPHEEO Specifications/guidelines are to be followed.

6.0 PREAMBLE TO SCHEDULE OF QUANTITIES

- SOR indicates only estimated quantities. The quantities indicated in the SOR are tentative and subject to variation. The final payable quantities shall be based on the actual weight measurements recorded at the time of handing over and duly certified by the Client and Engineer-in-Charge. Unit rate against each SOR item shall be applicable for any addition and deletion during execution of the project.
- During the performance of the work, the contractor, at his own cost, shall keep structures, materials and equipment adequately braced by guys, struts, or otherwise approved means which shall be supplied and installed by the contractor as required till such time the installation work is satisfactorily completed. Such guys, shoring, bracing, strutting, planking supports, etc., shall not interfere with the work of other agencies and shall not damage or cause distortion to other works executed by him or other agencies.
- While bidding and filling the rate in this Schedule of Rates, Bidder shall take into consideration the complete scope of work/item description as mentioned in the Schedule of Rates for the relevant item. The rate quoted in the Schedule of Rates shall be deemed to include all activities of work mentioned in the item description of the Schedule of Rates (Detailed), scope of work, specifications, standards, etc., and the most stringent requirement of all shall govern.



7.0 SCHEDULE OF RATES:

For the schedule of rates for the scope of General Civil works, refer to the SOR Document attached with the bid.



SCOPE OF SUPPLY AND WORK (ELECTRICAL)

PROJECT : COMPOSITE WORKS FOR CONSTRUCTION OF
BOUNDARY WALL

OWNER : SRI RAM JANMBHOOMI TEERTH KSHETRA
TRUST

CONSULTANT : ENGINEERS INDIA LIMITED

JOB NO. : C098

1	11.06.2025	ISSUED WITH TENDER	AP	GKS	BD
0	26.05.2025	ISSUED WITH TENDER	AP	GKS	BD
Rev. No	Date	Purpose	Prepared by	Checked by	Approved by



1.0 GENERAL

- a) This section defines the electrical scope of work for watch towers, boundary wall and other miscellaneous works covered under tender for composite works for construction of boundary wall. The intent of this specification is to define the electrical requirements for supply, installation, testing and commissioning of lighting, earthing, cabling system under the scope of this tender for Shri Ram Janmabhoomi Complex, Ayodhya
- b) The work shall be carried out to the best workmanship like manner, in conformity with these specifications, approved drawings/ construction drawings and the instructions of the owner or Engineer-in-Charge from time to time.
- c) The contract shall include clearing of temporary constructions, waste materials and loose earth, which might get collected in and nearby the work site during execution of work and after final completion.

1.2 CODES & STANDARDS

1.2.1 The work shall be performed in conformity with these specifications, standard specifications, installation standards and Codes of Practice specified or referred in the tender.

1.2.2 In addition, work shall also conform to the requirements of latest editions/ amendments of the following:

1. IS/IEC- 62305: Lightning Protection
2. IGBC
3. IS- 1646: Fire Safety of Buildings
4. (General): Electrical Installations-Code of Practice
5. IS-2189: Selection, Installation and Maintenance of automatic fire detection and alarm system-Code of Practice
6. IS-3646: Code of Practice for Interior illumination
7. IS-5216: Recommendation on safety procedures and practices in electrical works
8. IS-13234: Guide for short circuit calculations in three phase AC systems.
9. Local By – laws
10. National Building Code of India – 2016
11. Indian Electricity Act - 2003
12. National Electrical Code – 2011
13. IS: 3043 Code of Practice for Earthing
14. International Electro-Technical Code (IEC) applicable to Electrical Systems & Installation
15. EIA - Electronic Industries Association
16. Energy Conservation Building Codes 2017 (2020) and its latest amendments.
17. Relevant codes of National fire Codes 2008
18. Relevant codes of Bureau of Indian Standards
19. Institute of Electrical & Electronic Engineers (Design Handbook)
20. Illuminating Engineering Society of North America (Design Handbook)
21. ISO 8528-1 Reciprocating internal combustion engine driven alternating current generating sets — Part 1: Application, ratings and performance
22. NEC – NFPA 70, 72, National Electric Code
23. NFPA 101, Life safety code
24. NEC, National Electric Code of India
25. IEEE 519 - 1992 – IEEE recommended practices & Requirements for harmonic control in Electrical Power Systems
26. IEEE Standard-1100 (The Emerald Book)
27. ASHRAE Handbook 2017
28. Regulations laid down by the Central Electricity Authority



29. Fire Insurance Regulations
30. Regulations laid down by the Electrical Inspectorate
31. Regulations laid down by the Factory Inspectorate
32. CPWD specifications
33. Applicable Codes of Practice of the Bureau of Indian Standards
34. Any other regulations laid down by the Central, State or Local Authorities from time to time and during the execution of this contract.

1.3 SITE CONDITIONS

The equipment and the installation shall be suitable for continuous operation under the following site conditions:

Maximum/ Minimum Ambient Temperature	: Refer elsewhere
Equipment design temperature (IS-9676)	: 45 °C
Soil Resistivity	: As per soil investigation report (considering 100m-ohm)
Altitude above mean sea level	: Less than 1000m above MSL
Seismic Zone	: Consider Zone-4 as per IS-1893
Humidity	: >90%
Environment	: Dusty, Tropical and Corrosive

1.4 UTILIZATION VOLTAGES

- a. **AC Voltage and frequency variation**
 - i. Voltage : $\pm 10\%$
 - ii. Frequency : $\pm 3\%$
- b. **Utilization voltage**
 - i. Primary HV distribution voltage : -
 - ii. Primary HV distribution system neutral earthing : -
 - iii. Secondary HV distribution voltage : 11 kV
 - iv. Primary HV distribution system neutral earthing : Resistance Earthed
 - v. - : -
 - vi. MV motor voltage ($0.18 \leq kW \leq 160$) : 415 V AC except VFD motor
 - vii. AC Motors rated below 0.18 kW for process area : 240 V AC
 - viii. Actuators for Motor operated valves : 415 V AC
 - ix. Battery chargers input : 415 V AC
 - x. UPS System input : 415 V AC



- | | | | |
|--------|--|---|---|
| xi. | AC Lighting /Power Panels input | : | 415 V AC / 240V AC |
| xii. | Auxiliary Boards incoming power supply | : | 415 V AC |
| xiii. | Welding Receptacles | : | 415 V AC |
| xiv. | Bulk loads . | : | 415 V AC |
| xv. | Normal Lighting/Emergency Lighting | : | 240 V AC, Single Phase |
| xvi. | Convenience outlets | : | 240 V AC |
| xvii. | 415V PDB Control Circuits | : | 240V AC, 1 phase through
415V/240V control transformer
with secondary midpoint earthed. |
| xviii. | Deleted | | |
-
- | | | | |
|------|--|---|---|
| c. | Utilization voltage for critical supplies | | |
| i. | Critical lighting power supply | : | 240 V AC (UPS power) |
| ii. | Electrical Protection and Control system | : | Power pack by switchboard
supplier |
| iii. | Input power supply for fire alarm system | : | 240 V AC SPN with Dedicated
battery bank |
| iv. | Input power supply for PA system | : | 240V AC, SPN, UPS |

1.5 SCOPE OF WORK

1.5.1 The electrical scope covered under this tender includes complete electrical works pertaining to lighting, earthing, power & control cabling, supply and installation of lighting panel & DOL starters for the following.

- Watch Towers
- Conduiting provision in boundary walls for Boundary wall lighting and surveillance Equipment installation

1.5.2 The scope shall also include handling, transportation of free issue equipment/ material from owner's stores/ warehouse to the place of installation and supply of commissioning spares wherever required.

1.5.3 All associated work related to minor civil, structural, architectural works for these buildings as covered in the respective parts are also included in the contractor's scope, including making good of breakages of civil works, Patch/touch-up painting as required.

2.0 ENGINEERING & JOB SPECIFIC REQUIREMENTS

2.1 Various equipment covered in the tender/ SOR to be supplied by the contractor/ vendor shall in general be in accordance with the requirements defined in job specification (electrical), standard specifications, installation standards, job specifications for equipment, respective equipment data sheets etc.

In case of any conflict in requirement specified in various codes and standards referred, the more stringent requirement shall govern. Purchaser's concurrence shall always be



obtained in any such matter. SOR shall prevail. However, for any data not available in the SOR, specification/ datasheets etc. of the tender shall be referred.

- 2.2 CONTRACTOR shall ensure that all electrical equipment complies with site and system conditions, rating and other technical requirements as specified.
- 2.3 CONTRACTOR shall use this specification, data sheets, EIL's standard specifications and installation standards for various equipment. However, for equipment where specifications have not been attached with tender, the CONTRACTOR shall use their own specification developed based on project specific requirement and good engineering practices so as to ensure satisfactory operational and maintenance requirements.
- 2.4 CONTRACTOR shall note that data sheets for some of the equipment are not enclosed. Equipment data sheets for such equipment shall be prepared by the CONTRACTOR based on relevant codes and specifications and data sheet shall contain all technical data and information which are essential for review and technical acceptability, detailed engineering, installation, testing, repair and maintenance, replacement etc.
- 2.5 The equipment shall in general conform to latest revision of statutory regulations, Indian Standards, IEC/ Other international standards applicable for the country of origin of the equipment.
- 2.6 All equipment shall be subjected to routine and acceptance tests as per applicable specifications. In addition, equipment shall be subjected to type tests if specified elsewhere.
- 2.7 Contractor shall refer the applicable standard/ specification, before quoting for each SOR item. All sub-items, components, hardware, wiring, accessories etc. as shown in the applicable standard/ specification, shall be deemed to be included in the price quoted for that SOR item.
- 2.8 Various electrical works covered under this contract like equipment erection, cabling, lighting, earthing and lightning protection works etc, shall be performed in accordance with the following specifications attached with this tender (certain clauses of specifications which are applicable to equipment or systems not covered under this contract shall be omitted)
 - a) 6-51-0081 Standard specification for electrical equipment installation.
 - b) 6-51-0082 Standard specification for cable installation.
 - c) 6-51-0083 Standard specification for lighting installation.
 - d) 6-51-0084 Standard specification for earthing installation.
 - e) 6-51-0087 Standard specification for filed inspection, testing and commissioning of electrical installation
- 2.9 Paint shade of all outdoor equipment shall be RAL-7031 and indoor equipment shall be RAL-7032. Any other paint shade, if mentioned elsewhere in tender for electrical equipment, shall be considered as superseded by this clause.
- 2.10 Erection, testing and commissioning of equipment shall be performed in accordance with supplier's instructions and directions of the Engineer-in-Charge.
- 2.11 The installation shall also conform to specifications and installation standards attached with this tender and referred therein.



- 2.12 All electrical equipment shall be said to be installed and mechanically complete after circuit testing, primary and secondary injection testing and loop simulation is complete. Due care and consideration shall be given to the installation of all equipment, material and facilities.
- 2.13 Contractor shall coordinate with manufacturer of other equipment wherever required and shall freely and readily supply all technical information for this purpose as and when called for.
- 2.14 Preparation of conduit layout for lighting as per directions of the Engineer – in – charge & based on the AFC layout drawings (Lighting) to be issued during execution of works. But no separate payments shall be made unless otherwise specified in the schedule of rates, SOR.
- 2.15 Coordination of Lighting Installation works for areas with true/false ceiling, air-conditioning/ pressurization ducts and fire alarm layout drawings & installation contractors
- 2.16 Small civil works in buildings for cable entry and installation of equipment etc.
- 2.17 All associated work related to minor civil, structural, architectural works for these buildings as covered in the respective parts are also included in the contractor's scope, including making good of breakages of civil works, patch/touch-up painting as required.
- 2.18 Preparation/Compilation of bills of material for cabling, lighting, earthing, and for miscellaneous items based on layout drawings issued to contractor.
- 2.19 Preparation of field testing and commissioning procedures
- 2.20 Correction and submission of all owner's drawings for As-built status. (Hard and soft copies based on native AUTOCAD files provided to contractor).
- 2.21 Other activities listed in data sheets/ vendor data requirement formats.
- 2.22 Any other item/work/activity which is not specifically listed but is necessary for completeness of electrical system as per specifications, drawings and instructions of Engineer-in –charge.
- 2.23 Statutory Approvals

The Contractor shall obtain approvals from the concerned electrical inspectorate (e.g. CEA/ any other statutory authority for energizing the complete electrical facilities etc.) for installation drawings and engineering of the electrical system and equipment covered under the Contractor's scope. Any modification or additional requirements of the electrical inspectorate shall have to be carried out by the Contractor at their own cost without affecting time schedule are included in the Contractor's scope.

It may be noted that no separate payment shall be made for any statutory approvals and the cost shall be deemed to be built in the rates quoted for various SOR items.

3.0 SUPPLY, INSTALLATION, TESTING AND COMMISSIONING (EQUIPMENT/ MATERIAL SUPPLIED BY CONTRACTOR)

- 3.1 Scope of work shall include supply, installation, testing and commissioning of all equipment and systems to meet the requirement defined in specifications & data sheets attached with the tender and required for completion of the job including but not limited to the following. Detailed scope of work and quantities shall be as per Schedule of Rates enclosed with the tender.

- i. Lighting panels for safe area



- ii. Supply, installation, cable termination, connection, testing and commissioning of WP junction boxes
- iii. Supply, fabrication and installation of canopies for miscellaneous outdoor equipment.
- iv. 1100 V grade, Copper/ Aluminium Conductor, XLPE insulated and armoured cable.
- v. Heat shrinkable type straight through joints
- vi. Lighting fixtures, junction boxes, switch/ sockets and convenience receptacles for safe area
- vii. Safe area wall mounted fans.
- viii. Cables and wires for lighting, sockets system.
- ix. Complete earthing and lightning protection system including earth electrodes and GI strips.
- x. Anchor fasteners, tinned copper lugs, and nickel-plated brass cable glands.
- xi. Any other material and though not specifically mentioned above but required for completion of the work as per specifications, drawings and instruction of Engineer-in-charge.
- xii. LED lighting fixtures and connecting to wiring junction box/marshalling box/ GI box with modular plate and cover in front on surface or in recess complete with lamps and necessary control gear, providing and fixing of 240 V, single phase modular switches, MCB units, modular socket outlets, connections etc. as required. including supply of all connected materials like flexible conduit, clamps, supports, chains, anchor fasteners, bolts, nuts and washers etc. as required, including supply and fixing of cable glands, lugs, as per approved drawings, EIL installation standards, specifications of this tender and directions of Engineer-in- Charge
- xiii. Exhaust fan with louvers as required.
- xiv. 3 Pin 5/6 A and 6 Pin 15/16 A Socket Outlets
- xv. 5/6A Switches and 15/16 A Switches.
- xvi. Concealed type PVC conduit and associated fittings
- xvii. Surface type black enameled steel conduit and associated fittings
- xviii. Wiring with 660 V grade FRLS PVC insulated copper wires in surface/concealed conduit from lighting panel/power panel onwards including the supply of wires, termination and connection wherever required as per approved drawings, specifications of this tender and directions of Engineer-in-Charge.
- xix. Circuit/ submain wiring, point wiring and group wiring philosophy shall be executed as per CPWD specification. Switch/modular plate & boxes/conduits etc shall not be paid separately in case of point wiring & group wiring, the same is part of SOR. Conduits shall not be paid separately in case of Circuit/ submain wiring, the same is part of SOR.
- xx. Complete cable tray work, GI cable trays, tray covers, supports, racks, GI pipes for cable protection, floor sleeves etc.
- xxi. Complete earthing including earth electrodes, GI earthing strips, wires, earth plate, markers, associated connectors & accessories etc. and connection to existing main earth grid of the building.
- xxii. Industrial type safe area control stations with push buttons, selector switches, ammeters, lamps etc. as required.
- xxiii. Black enamelled steel surface/ PVC Concealed conduits.
- xxiv. Metsec channels/Slotted channel tray as required in buildings.



- xxv. Raceways including accessories like junction box with covers in floor for power distribution, LAN and Telephones.
- xxvi. GI pipes for cable protection above ground, floor sleeves, wall sleeves support wherever necessary.
- xxvii. Anchor fasteners, tinned copper lugs, and nickel-plated brass cable glands. The cable glands shall be single compression type for indoor equipment & double compression type for outdoor equipment.
- xxviii. All other hardware like nuts, bolts, washers, spring washers, grouting bolts, anchor fasteners, etc. necessary for completion of job.
- xxix. Structural steel supports, brackets for miscellaneous electrical equipment including welding, bolting etc. and necessary supplies and connection works, as required, all inclusive of painting as per SOR item. (The structural steel shall not be paid extra. The same shall be included in the respective installation item).
[In view of above, contractor to quote for SOR item accordingly taking care of above requirement]
- xxx. Safety equipment like first aid box, Fire extinguisher, shock hazard chart, insulation mats, etc.
- xxxi. All Commissioning Spares.
- xxxii. All the works to be performed and supplies to be affected as part of the contract shall require specific approval/ review of owner or his authorized representative. Major activities requiring approval/ review shall include but not be limited to those identified in the list of documents for Approval/ review/ records.
- xxxiii. Any other material and though not specifically mentioned above but required for completion of the work as per specifications, drawings and instruction of Engineer-in-charge.

Note: 1. Quantities given in SOR are tentative. Contractor shall take Owner's/ Site In-charge's approval before ordering.

4.0 EQUIPMENT SPECIFICATIONS

4.1 Lighting Fixtures and controls

All lighting fixtures shall be supplied complete with associated LED lamp and driver.

LED Driver shall be suitable for surge protection up to 2 kV surges.

Refer SOR item description and fixture schedules for details of light fixtures.

4.2 Cable Trays

GI Cable trays shall be provided for all the areas. Offered GI Cable Trays shall be in compliance with CPWD/DSOR.



4.3 Junction Boxes

Junction boxes shall be minimum IP 55 degree of protection suitable for installation in Safe areas. It shall be suitable for terminating or looping armoured / unarmoured signal/ power cables, as specified. JB's shall be provided with earthing stud. It shall be suitable for wall/ column/ structure/ ceiling mounting.

4.4 MV Power Cables

All MV power cables shall be in compliance with relevant IS/CPWD codes/specifications and Data sheets.

Power cable shall be 1100V grade, aluminium / copper conductor, XLPE insulated, PVC inner sheathed, wire/ strip armoured/ unarmoured, flame retardant low smoke (FRLS) PVC outer sheathed type.

4.5 CONTROL CABLES

All control cables shall be in compliance with relevant IS/CPWD codes/specifications and datasheets.

All Control cables shall be 1100V grade, multi-strand copper conductor, twisted pair, XLPE insulated, PVC inner sheathed, steel wire/strip armoured/unarmoured, overall shielded with PVC FRLS outer sheath of black colour.

Individual pair shielding shall be considered additionally for control cables wherever specified in SOR.

Pair identification for all control cables shall be with number at intervals of not more than 250 mm.

5.0 INSPECTION AND TESTING AT MANUFACTURER'S WORKS

- (i) All major electrical equipment and material shall be subject to inspection by owner/ EIL or authorized representative at manufacturers' works. Contractor/Vendor/ Sub-Vendor shall furnish all necessary information concerning the supply to owner/PMC.
- (ii) During fabrication, all the equipment shall be subject to inspection by owner/EIL or by an agency authorized by the owner to assess the progress of work as well as to ascertain that only quality raw material is used.
- (iii) Routine and acceptance tests as listed in relevant Indian standard and equipment specifications shall be conducted. Type test if listed in ITPs and in the relevant data sheet shall be conducted. Type test, if specified, shall be conducted only on one of equipment of each type and rating. These tests shall be carried out by the Contractor/vendor/sub-vendor and shall be witnessed by owner/EIL or an agency authorized by owner/EIL.



6.0 FIELD INSPECTION, TESTING AND COMMISSIONING

- 6.1 Site inspection, testing and commissioning of electrical installation shall be carried out as per enclosed Specification no. 6-51-0087 and SAT/FAT included or referred in this Tender.
- 6.2 All the equipment installed by the contractor shall be tested and commissioned, as required and no separate payments shall be made unless otherwise specified in the Schedule of Rates.
- 6.3 Any work not conforming to the execution drawings, specifications or codes shall be rejected forthwith and the contractor shall carry out the rectification at his own cost.
- 6.4 The contractor shall carry out all the tests as enumerated in the tender and technical specifications and technical documents which may be furnished to him during performance of the work.
- 6.5 Before the electrical system is made live, the electrical contractor shall carry out suitable tests to establish to the satisfaction of Engineer-in-Charge / Owner / EIL that the installation of equipment, cabling / wiring and connections have been correctly done and are in good working condition and that the system / equipment will operate as intended.
- 6.6 All tests shall be conducted in the presence of Owner/ EIL/ Engineer-in-Charge or his authorized representative unless he waives this requirement in writing. Contractor shall arrange testing equipment, as required to carry out the tests. Test results shall be recorded on approved Performa and certified records of the tests shall be submitted to Owner/ EIL/ Engineer-in-Charge.
- 6.7 Owner/ EIL/ Engineer-in-Charge shall have the right to get the defects rectified at the risk and cost of the contractor if he fails to attend to the defects immediately as desired.
- 6.8 Contractor shall furnish site acceptance test (SAT) procedures from the equipment supplier and get it approved from OWNER / EIL before carrying out the same at site.
- 6.9 Contractor shall prepare detailed testing, pre-commissioning and commissioning procedures for the entire installation. These shall include Performa for defining activities and recording of test results.
- 6.10 Inspection Categorization Plan shall be referred elsewhere in the tender.

7.0 SYSTEM TESTS & START-UP

- 7.1 Complete testing of power distribution system would be carried out under the supervision of the owner/ EIL/ engineer-in-charge. The contractor shall provide as part of the works and within his quoted rates, skilled personnel and supervisors to carry out the plant testing. The number and category of skilled personnel to be deployed by the contractor shall be decided by the engineer-in-charge and the contractor shall abide by his decision.
- 7.2 During start-up, the Contractor's responsibilities would be limited to attending to the defects attributable to him as and when they are brought to his notice. Defects shall be rectified at the risk and cost of the contractor if he fails to attend to these defects immediately.



- 7.3 After the operating conditions are fully achieved and the requirement as stated in General Conditions of Contract are fulfilled, the contractor would be eligible for applying for a completion certificate.
- 7.4 Where the works are carried out at the cost of the contractor, the engineer-in-charge would recover the actual cost incurred towards, labour, supervision and materials, consumables or otherwise, plus 10% towards overheads, from any pending bill of the contract or the security deposit.

8.0 DRAWINGS & DOCUMENTS

- 8.1 The drawings accompanying the tender document are indicative of the nature of work and issued for tendering purpose only. The purpose of these drawings is to enable the Contractor to make an offer in line with the requirements of the owner. However, no extra claim, whatsoever, shall be entertained for any variation between the 'Approved for Construction (AFC)' and 'Tender Drawings' regarding any changes.
- 8.2 Construction shall be carried out as per drawings / specifications issued / approved by the engineer-in-charge during the course of execution of work. Detailed construction drawings for actual execution of work shall be furnished to the contractor progressively based on the detailed construction program evolved after the award of work and also based on construction progress achieved by the contractor.
- 8.3 Prospective bidder shall be deemed to have studied the drawings enclosed with tender or displayed for scrutiny and fully understood the nature and magnitude of the work before submitting the bids.
- 8.4 Where the contractor has to prepare drawings, e.g. for fabrication of lighting and power panels, etc., contractor shall submit the drawings to engineer-in-charge and the approval in writing of the engineer-in-charge shall be obtained before commencing fabrication.
- 8.5 After the job completion, contractor shall prepare 'As-Built' drawings. Final certified 'As-Built' drawings shall be submitted by the contractor to owner in bound volumes and in soft files/CDs.
- 8.6 Contractor shall submit equipment manufacturer's drawing as applicable for the review of EIL Engineer-in-Charge in five sets of prints and the approval in writing of the EIL Engineer-in-Charge shall be obtained before commencing manufacture. However, it is to be understood that the review of drawings shall not absolve the basic responsibility of contractor to check total compliance to specifications included in tender document. Final drawings in bound volumes with one set of reproducible original sepia plus six sets of prints shall be submitted by contractor along with supply of materials at site.
- 8.7 Test certificates, catalogues, Contractor drawings, installation, operation and maintenance manuals for all equipment/materials shall be submitted by Contractor.



9.0 LIST OF ATTACHEMENTS

VENDOR LIST

S. NO.	TITLE	DOCUMENT NO.	REV. NO.
	Vendor List For Electrical Equipment & Components	C098-050-16-50-VL-1001	A

DATASHEETS & DRAWINGS

S. NO.	TITLE	DOCUMENT NO.	REV. NO.
	Lighting Fixture schedule	C098-000-16-50-DS-1001	1
	HV - MV cable	C098-000-16-50-DS-1002	A
	Communication & fire alarm cables	C098-000-16-50-DS-1003	A

1.2 SPECIFICATIONS

S. NO.	TITLE	SPECIFICATION NO.	REV. NO.
	Specification for electrical equipment installation	6-51-0081	5
	Specification for cable installation	6-51-0082	6
	Specification for lighting installation	6-51-0083	6
	Specification for earthing installation	6-51-0084	5
	Specification for field inspection, testing and commissioning of electrical installations	6-51-0087	4

1.3 INSTALLATION STANDARDS

S. NO.	TITLE	STANDARD NO.	REV. NO.
	Typical earth electrode for earthing system	7-51-0101	6
	Typical Earth Electrode in Test Pit.	7-51-0102	8
	Typical Earth Plate Fixing Details.	7-51-0103	7
	Typical arrangement for earthing of motor.	7-51-0104	6
	Typical earth connection for push button station.	7-51-0106	6
	Equipment Earthing Schedule.	7-51-0116	8
	Typical details of directly buried earthing electrode.	7-51-0117	6
	Typical Installation of open area Flood Lighting Fixture mounted on wall or Column.	7-51-0203	6



	Typical installation of fluorescent / led fixture mounting in exposed wiring system	7-51-0212	6
	Typical installation of recessed mounted fluorescent / led fixture	7-51-0213	6
	Typical installation of high bay lighting fixture.	7-51-0216	6
	Typical installation of bulk-head lighting fixture.	7-51-0218	6
	Typical installation of Weatherproof Light Fixture.	7-51-0224	6
	Typical Installation of Lighting/Power panel wall (Surface) mounted.	7-51-0226	6
	Typical Installation of Lighting fixture mounting in concealed conduit system.	7-51-0229	6
	Typical Installation of lighting / power panel flush mounted.	7-51-0230	6
	Marking of trenches for electric cables.	7-51-0301	6
	Typical section of cable trench in unpaved areas.	7-51-0302	6
	Typical section of RCC cable trench.	7-51-0303	7
	Installation details for conduit or cable support on wall/ slab/ beam.	7-51-0305	6
	Installation details for control station on structural channel in unpaved areas	7-51-0308	6
	Connection details for horizontal motor and control station (cable below ground)	7-51-0312	6
	Connection details for horizontal motor (cable below ground)	7-51-0313	6
	Connection details for motor and control station (cable in tray)	7-51-0314	6
	Cable termination for motors (cable laid in trench)	7-51-0325	5
	Arrangement for termination of cables laid in trench (for HV / MV motors)	7-51-0326	5
	Details of ERC below grade level	7-51-0322	5
	Safety Measures for Electrical installations During Construction	7-51-0332	4

1.4 INSPECTION & TEST PLAN

S. NO.	TITLE	STANDARD NO.	REV. NO.
	Inspection and test plan for industrial type control stations	6-81-1014	4
	Inspection & test plan for MV & HV cables & accessories	6-81-1051	4
	Inspection and Test Plan for communication and fire alarm cables	6-81-1052	4
	Inspection and test plan for high voltage induction motors	6-81-1031	5
	Inspection and test plan for energy efficient medium voltage motors	6-81-1064	0

SCOPE OF WORK & JOB SPECIFICATIONS
(INSTRUMENTATION)
FOR
COMPOSITE WORK FOR CONSTRUCTION OF
BOUNDARY WALL

A	06.05.2026	ISSUED WITH TENDER	AK	DVP	DVP
Rev. No	Date	Purpose	Prepared by	Checked by	Approved by

JOB SPECIFIC REQUIREMENTS

1. This "Scope of work" (SOW) for Instrumentation shall be read in conjunction with technical specifications, drawings, Schedule of Qty., Vendor Data Requirements, other specifications, codes and standards attached or referred in the tender document which shall be complied by the Contractor.
2. Wherever required, with prior permission and instructions of site-in-charge, existing CCTV cameras, camera poles, junction box, and other accessories shall be dismantled from existing location and suitably relocated to new location identified by site-in-charge. After relocation and installation of CCTV camera, network and power connection to reestablished and CCTV to be brought in to operation. Bidder's scope includes complete activity from cable disconnection, dismantling of camera along with poles, installation of camera pole and camera at new location, rerouting of cables and cable termination, establishing power and network connection, and ensuring that camera is fully functional at new location.
3. Based on site requirement, new camera pole to be provided at new location for existing CCTV Camera.
4. **WARRANTY:**
Contractor to note that Warranty shall be as per commercial section attached elsewhere.
5. **DOCUMENTATION REQUIREMENTS:**
 - i. After award of contract, Contractor shall submit Drawings and documents for all Systems/ equipments supplied by them as per Vendor Data Requirement enclosed with the tender document and get it duly approved before proceeding with the manufacturing of the system and installation of the same at site.
 - ii. Review of the contractor's/ vendor drawings/ documents by Consultant/ Owner would be only the review of basic design and concepts and in no way absolve the contractor of his responsibility/ contractual obligation to comply with tender requirements, applicable codes, specifications and statutory rules/ regulations. Any error/ deficiency noticed during any stage of manufacturing/ execution/ installation/ testing and commissioning shall be promptly corrected by the Contractor without any time and cost implications irrespective of comments on same received from Consultant/ Owner during drawing review stage or not.
 - iii. Contractor will submit the Document Control Index covering for review/ approval by Consultant/ Client immediately after award of contract as per time line specified elsewhere in the tender document.
 - iv. Documents/ Dwg. as specified in the Vendor Data Requirement enclosed with tender is minimum requirements. Contractor shall submit any other documents/ dwgs/ data required for completion of the job as per Consultant/ Client instruction.
 - v. Price quoted by Contractor against supply of each Systems / Equipment / items as per Schedule of Rate shall be inclusive of price of Drawings and documents of respective items

as per requirements specified in Technical Specifications & Vendor Data Requirement enclosed with tender document.

6. AS BUILT DRAWINGS/ DOCUMENTS

Contractor scope shall include incorporation of all information in drawings/documents/ specifications etc. for each systems/ equipments supplied by them and actual execution of work done by them at site and to prepare and submit as-built drawings/ documents.

Price quoted by Contractor against supply of each Systems / Equipments / items as per Schedule of Rate shall be inclusive of price for preparation and submission of As-built Drawings/ Documents.

7. STATUTORY APPROVALS

Wherever approval by any statutory body is required for the items supplied by Contractor, same to be taken by Contractor. The contractor will submit copy of approval by the authority to Consultant/ Client. Price quoted by Contractor against supply of each Systems / Equipments / items as per Schedule of Rate shall be inclusive of price of Statutory approvals of respective items as applicable.

8. Contractor shall develop documents/ data for their scope, in line with following specifications enclosed elsewhere in the tender document, as applicable:

- i) Specification for quality management system requirements from Contractors doc. no. 6-78-0001)"
- ii) Specification for documentation requirements from contractors (doc. no. 6-78-0002)"
- iii) Specification for documentation requirements from suppliers (doc. no. 6-78-0003)"

9. SITE CONDITIONS & CLIMATE

All items installed out door shall be suitable for unprotected installation in Hot, humid and corrosive environment having ambient conditions as given elsewhere in Tender. The selected equipment and accessories shall be suitable to work in such environment.

Signature Not Verified

Digitally signed by NEERAJ SHRIKANT
BORGANONKAR

Date: 2026.05.09 18:56:17 IST

Location: eProcure-EPROC