



**MUMBAI METRO LINE 3  
(COLABA-BANDRA-SEEPZ)**

**CONTRACT NO: MM 3-CBS-DEM-R**

**Design, Manufacture, Supply, Installation, Testing and Commissioning of E&M works comprising of Electrical Sub Stations with HT and LT works, Ventilation and Air Conditioning Systems (VAC), Fire Detection Systems, Fire Suppression (Fire Fighting) Systems, Building Management System (BMS), EOT cranes, Air-Compressors including compressed air piping works and Plumbing Pumps for the Depot**

**Buildings including OCC and at grade Aarey Station for “Mumbai Metro Line -3”**

**VOLUME 5 OF 6  
TENDER DRAWINGS**

**APRIL - 2018**

**Mumbai Metro Rail Corporation Ltd.  
Plot No. R-13, ‘E’ Block,  
Namttri Building  
Bandra - Kurla Complex,  
Bandra (East), Mumbai – 400051, India**

**Composition of Documents**

## Composition of Documents

<b>Volume 1</b>	<b>Bidding Procedure</b>
Section I	Notice Inviting Tender (NIT)
Section II	Instructions To Tenderer
Section III	Form of Tenders
<b>Volume 2</b>	<b>Conditions of Contract and Contract Forms</b>
Section IV	General Conditions of Contract (GCC)
Section V	Special Conditions of Contract (SCC)
<b>Volume 3</b>	<b>Employer's Requirement- General Specification</b>
<b>Volume 4</b>	<b>Employer's Requirement – Technical Specifications</b>
Section VI – A	Electrical - HT
Section VI – B	Electrical - LT
Section VI – C	Ventilation & Air Conditioning (VAC)
Section VI – D	Fire Alarm and Detection System (FADS)
Section VI – E	Fire Suppression ( Fire Fighting System)
Section VI – F	Building Management System (BMS)
Section VI – G	EOT Cranes ( Electric Over Head Travelling Crane)
Section VI – H	Air Compressor ( Compressed Air System)
Section VI – I	Plumbing Pumps ( Drinking, Treated and Sewer )
<b>Volume 5</b>	<b>Tender Drawings</b>
Section VII – A	Electrical - HT
Section VII – B	Electrical - LT
Section VII – C	Ventilation & Air Conditioning (VAC)
Section VII – D	Fire Alarm and Detection System (FADS)
Section VII – E	Fire Suppression ( Fire Fighting System)
Section VII – F	Building Management System (BMS)
Section VII – G	EOT Cranes ( Electric Over Head Travelling Crane)
Section VII – H	Air Compressor ( Compressed Air System)
Section VII – I	Plumbing Pumps ( Drinking, Treated and Sewer )
Section VII – J	Civil Tender Drawings ( Architectural / Utility)
<b>Volume 6</b>	<b>Bill of Quantities</b>

DEPOT TENDER DRAWING LIST				
Sr. No.	DRAWING NO	DESCRIPTION	REVISION	
		<b>TYPICAL HT &amp; LT CABLE ROUTE LAYOUT &amp; 33KV DISTRIBUTION SCHEME</b>		
1	MM3-GC-DEM-ELE-08-D24-1001	TYPICAL HT & LT CABLE ROUTE LAYOUT	R0	
	MM3-GC-DEM-ELE-08-D24-1002	TYPICAL 33KV DISTRIBUTION SCHEME	R0	
		<b>ELECTRICAL LT SINGLE LINE DIAGRAM</b>		
2	MM3-GC-DEM-ELE-08-D24-1003	ASS-1 MAIN SCHEMATIC DIAGRAM - AAREY DEPOT	R0	
	MM3-GC-DEM-ELE-08-D24-1004	ASS-2 MAIN SCHEMATIC DIAGRAM - AAREY DEPOT	R0	
	MM3-GC-DEM-ELE-08-D24-1005	MAIN SCHEMATIC DIAGRAM FOR AAREY STATION	R0	
		<b>VENTILATION &amp; AIR-CONDITIONING SYSTEM</b>		
3	MM3-GC-DEM-VAC-08-D24-1101	TYPICAL VRF SCHEMATIC FOR WORKSHOP BUILDING	R0	
	MM3-GC-DEM-VAC-08-D24-1102	TYPICAL VENTILATION SCHEMATIC FOR WORKSHOP BUILDING	R0	
	MM3-GC-DEM-VAC-08-D24-1103	TYPICAL VENTILATION SCHEMATIC FOR OCC BUILDING	R0	
	MM3-GC-DEM-VAC-08-D24-1104	TYPICAL CHILLED WATER SCHEMATIC FOR OCC BUILDING (Sheet 1 of 2)	R0	
	MM3-GC-DEM-VAC-08-D24-1105	TYPICAL CHILLED WATER SCHEMATIC FOR OCC BUILDING (Sheet 2 of 2)	R0	
	MM3-GC-DEM-VAC-08-D24-1106	TYPICAL CONDENSER WATER SCHEMATIC FOR OCC BUILDING	R0	
		<b>FIRE ALARM &amp; DETECTION SYSTEM</b>		
4	MM3-GC-DEM-FAD-08-D24-1201	TYPICAL SINGLE LINE DIAGRAM FIRE ALARM SYSTEM (DEPOT)	R0	
	MM3-GC-DEM-FAD-08-D24-1202	TYPICAL SINGLE LINE DIAGRAM FIRE ALARM SYSTEM (OCC & INFRASTRUCTURE BUILDING )	R0	
	MM3-GC-DEM-FAD-08-D24-1203	TYPICAL SCHEMATIC DIAGRAM - FIRE ALARM SYSTEM FOR AAREY STATION	R0	
		<b>FIRE SUPPRESSION SYSTEM</b>		
5	MM3-GC-DEM-FF-08-D24-1301	FIRE SUPPRESSION SYSTEM	R0	
	MM3-GC-DEM-FF-08-D24-1302	TYPICAL FIRE SUPPRESSION SYSTEM FOR DEPOT	R0	
	MM3-GC-DEM-FF-08-D24-1303	TYPICAL SCHEMATIC DIAGRAM FOR FIRE SUPPRESSION SYSTEM AARAY STATIONS	R0	
	MM3-GC-DEM-FF-08-D24-1304	TYPICAL SCHEMATIC DIAGRAM OF CLEAN GAS AGENT	R0	
		<b>BUILDING MANAGEMENT SYSTEM</b>		
6	MM3-GC-DEM-BMS-08-D24-1401	TYPICAL BMS ARCHITECTURAL DRAWING	R0	
		<b>OVER HEAD CRANE or ELECTRIC OVERHEAD TRAVELLING</b>		
7	MM3-GC-DEM-EOT-08-D24-1501	TYPICAL EOT SCOPE OF WORK DEM & CIVIL ( UNDERFLOOR WHEEL LATHE (UFWL) )	R0	
	MM3-GC-DEM-EOT-08-D24-1502	TYPICAL EOT SCOPE OF WORK DEM & CIVIL ( INFRASTRUCTURE MAINTENANCE VEHICULAR & WORKTRAIN WORKSHOP )	R0	
	MM3-GC-DEM-EOT-08-D24-1503	TYPICAL EOT SCOPE OF WORK DEM & CIVIL ( MAINTENANCE & INSPECTION WORKSHOP AND CENTRAL STORE )	R0	

DEPOT TENDER DRAWING LIST			
Sr. No.	DRAWING NO	DISCRIPTION	REVISION
8	MM3-GC-DEM-CAS-08-D24-1601	COMPRESSED AIR LINE FOR MAINTENANCE T INSPECTION WORKSHOP & CENTRAL STORE	R0
	MM3-GC-DEM-CAS-08-D24-1602	COMPRESSED AIR LINE FOR UNDER FLOOR WHEEL LATHE, HEAVY WASHING SHED, WORKTRAIN WORK SHOP	R0
9		<b>PLUMBING PUMPS</b>	
	MM3-GC-DEM-PL-08-D24-1701	PLUMBING PUMP DEPOT	R0
	MM3-GC-DEM-PL-08-D24-1702	PLUMBING PUMP AAREY STATION	R0
	MM3-GC-DEM-PL-08-D24-1703	SCOPE OF WORK E&M AND CIVIL PLUMBING WORK	R0
10		<b>ARCHITECTURAL DRAWINGS</b>	
	MML3-CBS/MMRC/IC/DEP/AR/106	AAREY DEPOT MASTER PLAN	R1
	MML3-CBS/MMRC/IC/DEP/AR/101	OCC AND INFRASTRUCTURE BUILDING - GROUND FLOOR	R0
	MML3-CBS/MMRC/IC/DEP/AR/102	OCC AND INFRASTRUCTURE BUILDING - FIRST FLOOR	R0
	MML3-CBS/MMRC/IC/DEP/AR/103	OCC AND INFRASTRUCTURE BUILDING - SECOND FLOOR	R0
	MML3-CBS/MMRC/IC/DEP/AR/104	OCC AND INFRASTRUCTURE BUILDING - THIRD FLOOR	R0
	MML3-CBS/MMRC/IC/DEP/AR/105	OCC AND INFRASTRUCTURE BUILDING - TERRACE LEVEL PLAN	R0
	MML3-CBS/MMRC/IC/DEP/AR/106	OCC AND INFRASTRUCTURE BUILDING - SECTION	R0
	MML3-CBS/MMRC/IC/DEP/AR/1001	MAINTENANCE WORKSHOP & CENTRAL STORE BUILDING GROUND FLOOR PLAN	R1
	MML3-CBS/MMRC/IC/DEP/AR/1001/A	MAINTENANCE WORKSHOP & CENTRAL STORE BUILDING GROUND FLOOR PART PLAN (GRID NO.1 TO 20)	R1
	MML3-CBS/MMRC/IC/DEP/AR/1001/B	MAINTENANCE WORKSHOP & CENTRAL STORE BUILDING GROUND FLOOR PART PLAN (GRID NO.20 TO 40)	R1
	MML3-CBS/MMRC/IC/DEP/AR/1002	MAINTENANCE WORKSHOP & CENTRAL STORE BUILDING FIRST FLOOR PLAN	R1
	MML3-CBS/MMRC/IC/DEP/AR/1002/A	MAINTENANCE WORKSHOP & CENTRAL STORE BUILDING FIRST FLOOR PART PLAN (GRID NO. 1 TO 20)	R1
	MML3-CBS/MMRC/IC/DEP/AR/1002/B	MAINTENANCE WORKSHOP & CENTRAL STORE BUILDING FIRST FLOOR PART PLAN (GRID NO. 20 TO 40)	R1
	MML3-CBS/MMRC/IC/DEP/AR/1003	MAINTENANCE WORKSHOP & CENTRAL STORE BUILDING ROOF PLAN	R1
	MML3-CBS/MMRC/IC/DEP/AR/1004	MAINTENANCE WORKSHOP & CENTRAL STORE BUILDING SECTION-A-A (GRID 1 TO 14)	R1
	MML3-CBS/MMRC/IC/DEP/AR/1004/A	MAINTENANCE WORKSHOP & CENTRAL STORE BUILDING SECTION-A-A (GRID 14 TO 28)	R1
	MML3-CBS/MMRC/IC/DEP/AR/1004/B	MAINTENANCE WORKSHOP & CENTRAL STORE BUILDING SECTION-A-A (GRID 28 TO 40)	R1
	MML3-CBS/MMRC/IC/DEP/AR/1005	MAINTENANCE WORKSHOP & CENTRAL STORE BUILDING SECTION-B-B	R1
	MML3-CBS/MMRC/IC/DEP/AR/1006	MAINTENANCE WORKSHOP & CENTRAL STORE BUILDING FIRST FLOOR PLAN TOILET DETAIL SECTION	R1
	MML3-CBS/MMRC/IC/DEP/AR/1007	MAINTENANCE WORKSHOP & CENTRAL STORE BUILDING EAST & WEST SIDE ELEVATION	R1
	MML3-CBS/MMRC/IC/DEP/AR/1008	MAINTENANCE WORKSHOP & CENTRAL STORE BUILDING ELEVATIONS	R1
	MML3-CBS/MMRC/IC/DEP/AR/1009	MAINTENANCE WORKSHOP & CENTRAL STORE BUILDING DOOR & WINDOW SCHEDULE	R1
	MML3-CBS-MMRC-IC-DEP-AR-601	ACCESS CONTROL BUILDING -1 GROUND FLOOR PLAN	R2
	MML3-CBS-MMRC-IC-DEP-AR-602	ACCESS CONTROL BUILDING -1 ROOF & CEILING PLAN	R2
	MML3-CBS-MMRC-IC-DEP-AR-603	ACCESS CONTROL BUILDING -1 TOILET PLAN & SECTIONS	R2
	MML3-CBS-MMRC-IC-DEP-AR-604	ACCESS CONTROL BUILDING -1 SECTIONS	R2
	MML3-CBS-MMRC-IC-DEP-AR-605	ACCESS CONTROL BUILDING -1 ELEVATIONS	R2
	MML3-CBS-MMRC-IC-DEP-AR-606	ACCESS CONTROL BUILDING -1 DETAILS	R2
	MML3-CBS-MMRC-IC-DEP-AR-607	ACCESS CONTROL BUILDING -1 MECHANICAL SLIDING GATE DETAILS	R2

DEPOT TENDER DRAWING LIST			
Sr. No.	DRAWING NO	DESCRIPTION	REVISION
	MML-3-CBS-MMRC-IC-DEP-AR-608	ACCESS CONTROL BUILDING -1 DOOR & WINDOW DETAILS	R2
	MML3-CBS/MMRC/IC/DEP/AR/701	COVERED STABLING SHED 1 - GROUND FLOOR PLAN	R2
	MML3-CBS/MMRC/IC/DEP/AR/702	COVERED STABLING SHED 1 - SECTION	R2
	MML3-CBS/MMRC/IC/DEP/AR/703	COVERED STABLING SHED 1 - ROOF PLAN	R2
	MML3-CBS/MMRC/IC/DEP/AR/704	COVERED STABLING SHED 1 - ELEVATION	R2
	MML3-CBS/MMRC/IC/DEP/AR/705	COVERED STABLING SHED 1 - LONGITUDINAL SECTION	R2
	MML3-CBS/MMRC/IC/DEP/AR/706	COVERED STABLING SHED 1 - RAMP SECTION & DETAIL	R2
	MML3-CBS/MMRC/IC/DEP/AR/707	COVERED STABLING SHED 1 - GATE DETAIL	R2
	MML3-CBS/MMRC/IC/DEP/AR/801	COVERED STABLING SHED 2 - GROUND FLOOR PLAN	R2
	MML3-CBS/MMRC/IC/DEP/AR/802	COVERED STABLING SHED 2 - SECTION A-A & B-B	R2
	MML3-CBS/MMRC/IC/DEP/AR/803	COVERED STABLING SHED 2 - ROOF PLAN	R2
	MML3-CBS/MMRC/IC/DEP/AR/804	COVERED STABLING SHED 2 - ELEVATION	R2
	MML3-CBS/MMRC/IC/DEP/AR/805	COVERED STABLING SHED 2 - LONGITUDINAL SECTION	R2
	MML3-CBS/MMRC/IC/DEP/AR/806	COVERED STABLING SHED 2 - DETAILS	R2
	MML3-CBS/MMRC/IC/DEP/AR/807	COVERED STABLING SHED 2 - GATE DETAIL	R2
	MML3-CBS/MMRC/IC/DEP/AR/1101	UNDER FLOOR WHEEL LATHE PLAN & SECTIONS	R0
	MML3-CBS/MMRC/IC/DEP/AR/1201	HEAVY WASHING SHED PLAN AND SECTION	R0
	MML3-CBS/MMRC/IC/DEP/AR/1501	AAREY DEPOT STATION & ASS 27 BASEMENT LEVEL PLAN	R0
	MML3-CBS/MMRC/IC/DEP/AR/1502	AAREY DEPOT STATION & ASS 27 PLATFORM LEVEL PLAN	R0
	MML3-CBS/MMRC/IC/DEP/AR/1503	AAREY DEPOT STATION & ASS 27 CONCOURSE LEVEL PLAN	R0
	MML3-CBS/MMRC/IC/DEP/AR/1504	AAREY DEPOT STATION & ASS 27 DECK LEVEL PLAN	R0
	MML3-CBS/MMRC/IC/DEP/AR/1505	AAREY DEPOT STATION & ASS 27 SERVICE AND PARKING LEVEL PLAN	R0
	MML3-CBS/MMRC/IC/DEP/AR/1506	AAREY DEPOT STATION & ASS 27 SECTIONAL ELEVATION	R0
	MML3-CBS/MMRC/IC/DEP/AR/1507	AAREY DEPOT STATION & ASS 27 SECTIONAL ELEVATION	R0
	MML3-CBS/MMRC/IC/DEPOT/AR/2001	U.G. TANK BUILDING LOWER LEVEL PLAN	A
	MML3-CBS/MMRC/IC/DEPOT/AR/2002	U.G. TANK BUILDING UPPER LEVEL PLAN	A
	MML3-CBS/MMRC/IC/DEPOT/AR/2003	U.G. TANK BUILDING TERRACE LEVEL PLAN	A
	MML3-CBS/MMRC/IC/DEP/AR/2101	OVERHEAD WATER TANK PLAN, SECTION, ELEVATION	R0
	MML3-CBS/MMRC/IC/DEPOT/AR/1401	PLAN & SECTIONS AUTOMATIC TRAIN WASH GENERAL ARRANGEMENT	R0

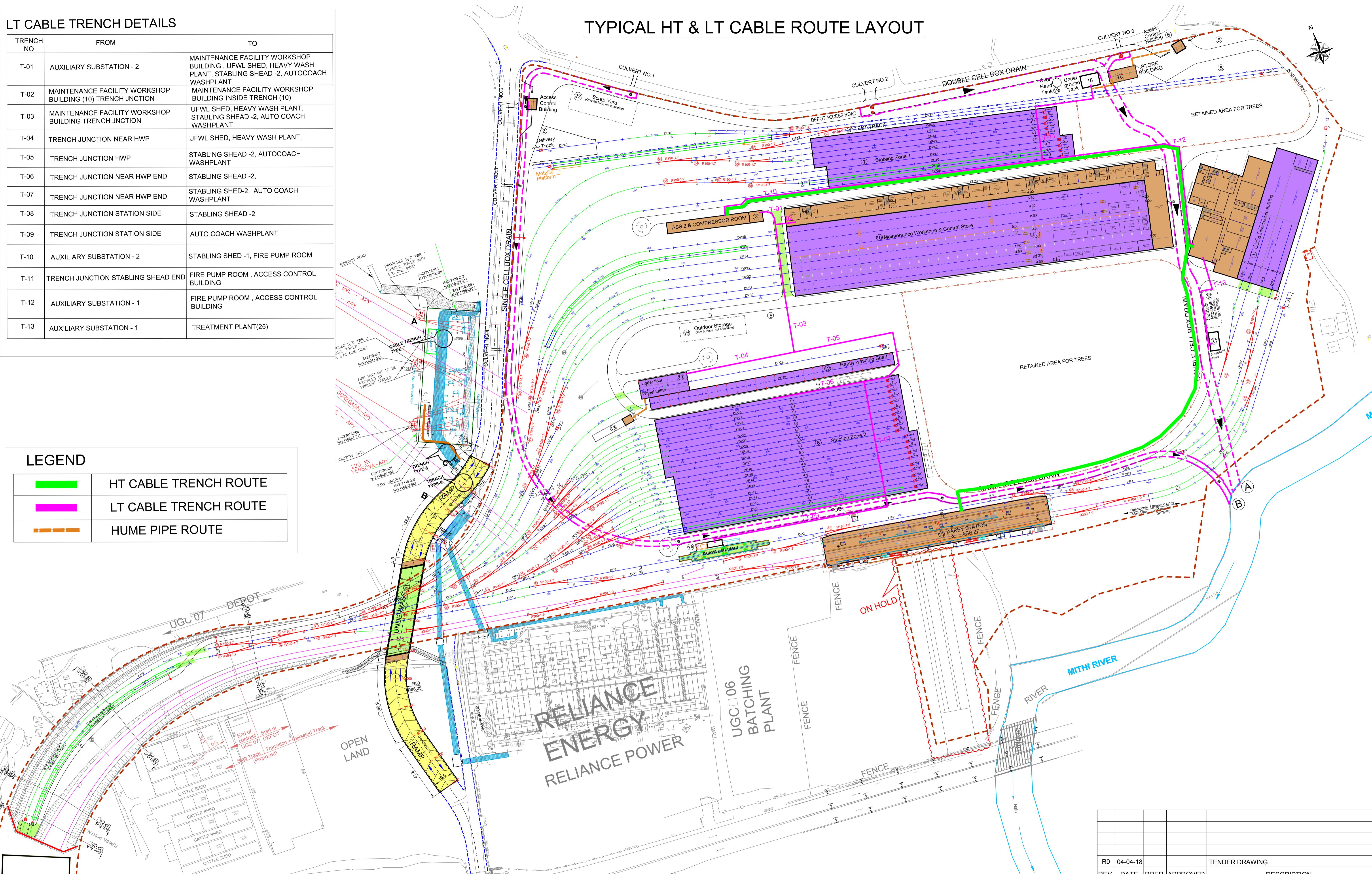
## LT CABLE TRENCH DETAILS

TRENCH NO	FROM	TO
T-01	AUXILIARY SUBSTATION - 2	MAINTENANCE FACILITY WORKSHOP BUILDING, UFWL SHED, HEAVY WASH PLANT, STABLING SHEAD -2, AUTO COACH WASHPLANT
T-02	MAINTENANCE FACILITY WORKSHOP BUILDING (10) TRENCH JNCTN	MAINTENANCE FACILITY WORKSHOP BUILDING INSIDE TRENCH (10)
T-03	MAINTENANCE FACILITY WORKSHOP BUILDING TRENCH JNCTN	UFWL SHED, HEAVY WASH PLANT, STABLING SHEAD -2, AUTO COACH WASHPLANT
T-04	TRENCH JUNCTION NEAR HWP	UFWL SHED, HEAVY WASH PLANT,
T-05	TRENCH JUNCTION HWP	STABLING SHEAD -2, AUTO COACH WASHPLANT
T-06	TRENCH JUNCTION NEAR HWP END	STABLING SHEAD -2,
T-07	TRENCH JUNCTION NEAR HWP END	STABLING SHEAD-2, AUTO COACH WASHPLANT
T-08	TRENCH JUNCTION STATION SIDE	STABLING SHEAD -2
T-09	TRENCH JUNCTION STATION SIDE	AUTO COACH WASHPLANT
T-10	AUXILIARY SUBSTATION - 2	STABLING SHED -1, FIRE PUMP ROOM
T-11	TRENCH JUNCTION STABLING SHEAD END	FIRE PUMP ROOM , ACCESS CONTROL BUILDING
T-12	AUXILIARY SUBSTATION - 1	FIRE PUMP ROOM , ACCESS CONTROL BUILDING
T-13	AUXILIARY SUBSTATION - 1	TREATMENT PLANT(25)

## LEGEND

	HT CABLE TRENCH ROUTE
	LT CABLE TRENCH ROUTE
	HUME PIPE ROUTE

## TYPICAL HT & LT CABLE ROUTE LAYOUT



GENERAL CONSULTANCY SERVICES  
FOR MUMBAI METRO RAIL PROJECT, LINE No. 3  
COLABA-BANDRA-SEEPZ

E&M
TENDER DRAWING

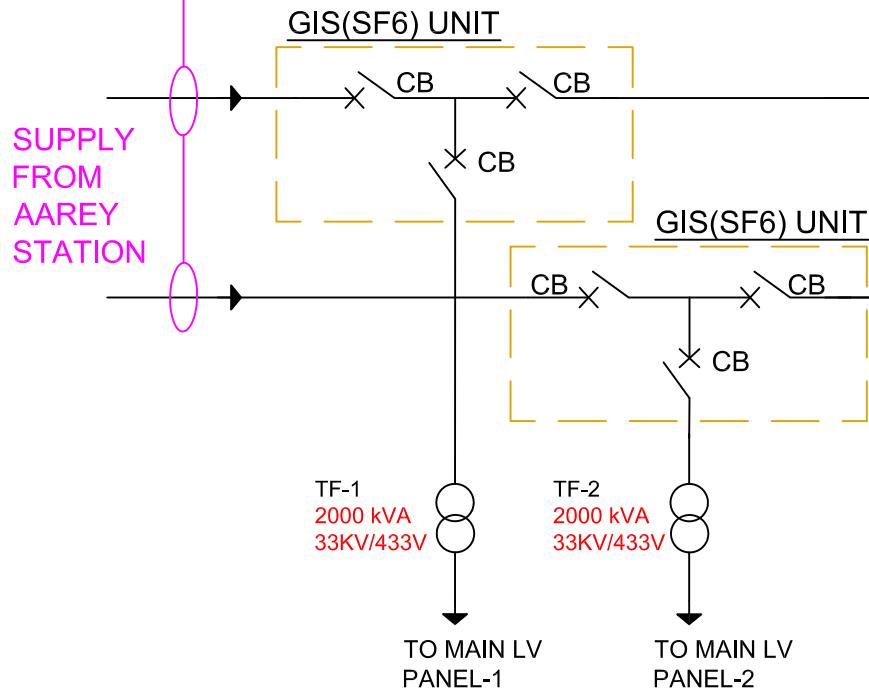
DRAWN BY	NAME	SIGN	PROJECT			DATE	
			MUMBAI METRO LINE 3 COLABA-BANDRA-SEEPZ				
DESIGN BY	TITLE			DRAWING TITLE	SCALE		
	DEPOT GENERAL ARRANGEMENT DRAWING						
APPROVED BY	TYPICAL HT & LT CABLE ROUTE LAYOUT			DRAWING NO	1:1000		
	MM3-GC-DEM-ELE-8-D24-1001						



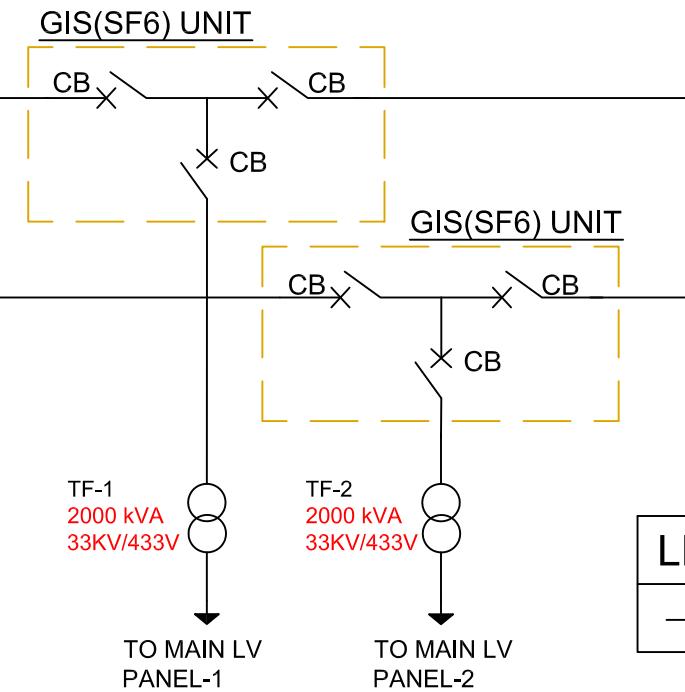
MUMBAI METRO LINE-3  
GENERAL CONSULTANT

# TYPICAL 33KV RING MAIN SYSTEM & 33KV /433V SUBSTATION AT AAREY DEPOT

E&M Scope of work -Cable laying & Termination of 33KV XLPE 120 Sqmm.Cu.Cable (2RUNS) from AAREY At-grade Station



**DEPOT ASS-1**



**DEPOT ASS-2**

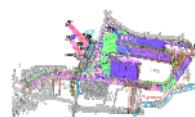
LEGENDS:-	
	Circuit Breaker

R0	04-04-18				TENDER DRAWING
REV.	DATE	PREP.	APPROVED		DESCRIPTION



GENERAL CONSULTANCY SERVICES  
FOR MUMBAI METRO RAIL PROJECT, LINE No. 3  
COLABA-BANDRA-SEEPZ

KEY PLAN



E&M	NAME	SIGN
DRAWN BY		
DESIGN BY		
CHECKED BY		
APPROVED BY		

PROJECT  
MUMBAI METRO LINE 3 COLABA-BANDRA-SEEPZ  
TITLE  
GENERAL ARRANGEMENT DRAWING  
DRAWING NO MM3-GC-DEM-ELE-8-D24-1002  
DRAWING TITLE TYPICAL 33KV DISTRIBUTION SCHEME  
DATE APRIL - 2018  
SCALE NTS

F

E

D

C

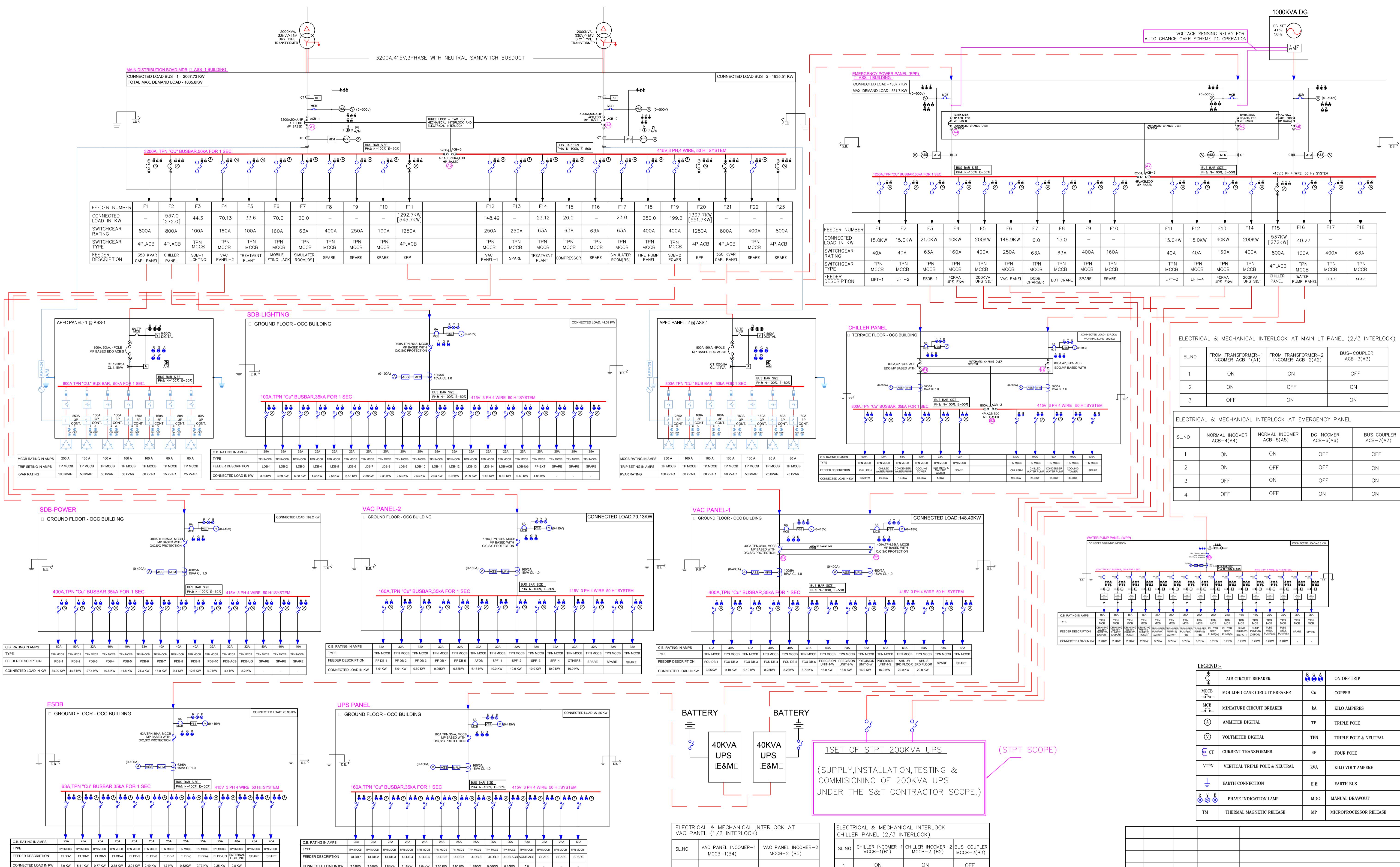
B

A

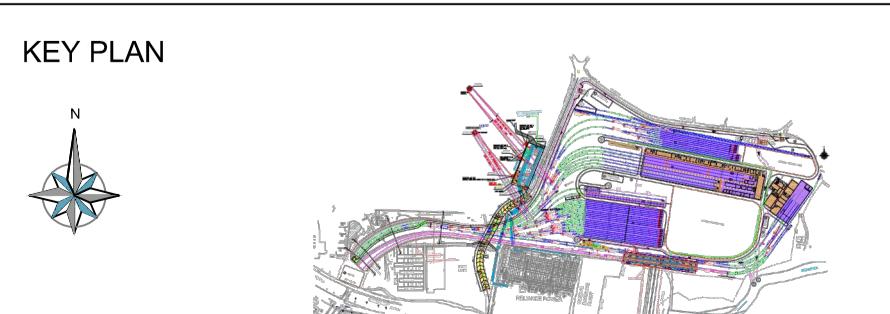


MUMBAI METRO LINE-3  
GENERAL CONSULTANT

Page 7



GENERAL CONSULTANCY SERVICES  
FOR MUMBAI METRO RAIL PROJECT, LINE No. 3  
COLABA-BANDRA-SEEPZ



E&M  
TENDER DRAWING

PROJECT  
MUMBAI METRO LINE 3 COLABA-BANDRA-SEEPZ  
DRAWN BY  
DESIGN BY  
CHECKED BY  
APPROVED BY

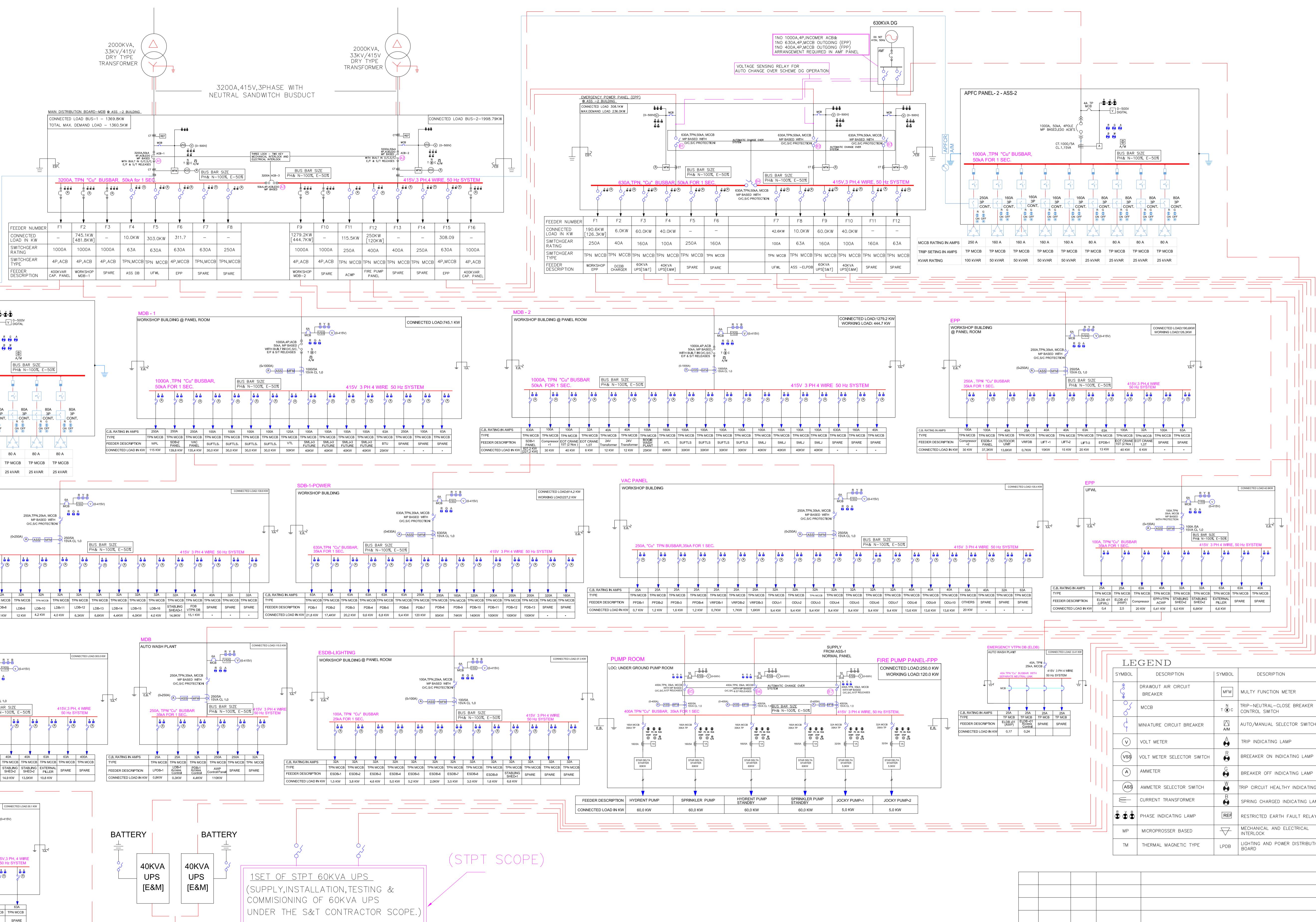
TITLE  
GENERAL PANEL DRAWING  
DRAWING TITLE  
ASS-1 MAIN SCHEMATIC DIAGRAM  
AAREY DEPOT  
DRAWING NO  
MM3-GC-DEM-ELE-D24-1003

maple  
MUMBAI METRO LINE-3  
GENERAL CONSULTANT

ELECTRICAL & MECHANICAL INTERLOCK AT RLOCK			
SL.NO	FROM TRANSFORMER-1	FROM TRANSFORMER-2	BUS COUPLER
1	ON	ON	OFF
2	ON	OFF	ON
3	OFF	ON	ON

ELECTRICAL & MECHANICAL INTERLOCK AT EMERGENCY PANEL			
SL.NO	NORMAL INCOMER MCCB(B1)	NORMAL INCOMER MCCB(B2)	BUS COUPLER MCCB(B3)
1	ON	ON	OFF
2	ON	OFF	ON
3	OFF	ON	ON
4	OFF	OFF	ON

ELECTRICAL & MECHANICAL INTERLOCK AT FPP			
SL.NO	NORMAL INCOMER MCCB(B7)	NORMAL INCOMER MCCB(B6)	DG INCOMER MCCB(B5)
1	ON	OFF	OFF
2	OFF	ON	OFF
3	OFF	OFF	ON



GENERAL CONSULTANCY SERVICES  
FOR MUMBAI METRO RAIL PROJECT, LINE No. 3  
COLABA-BANDRA-SEEPZ



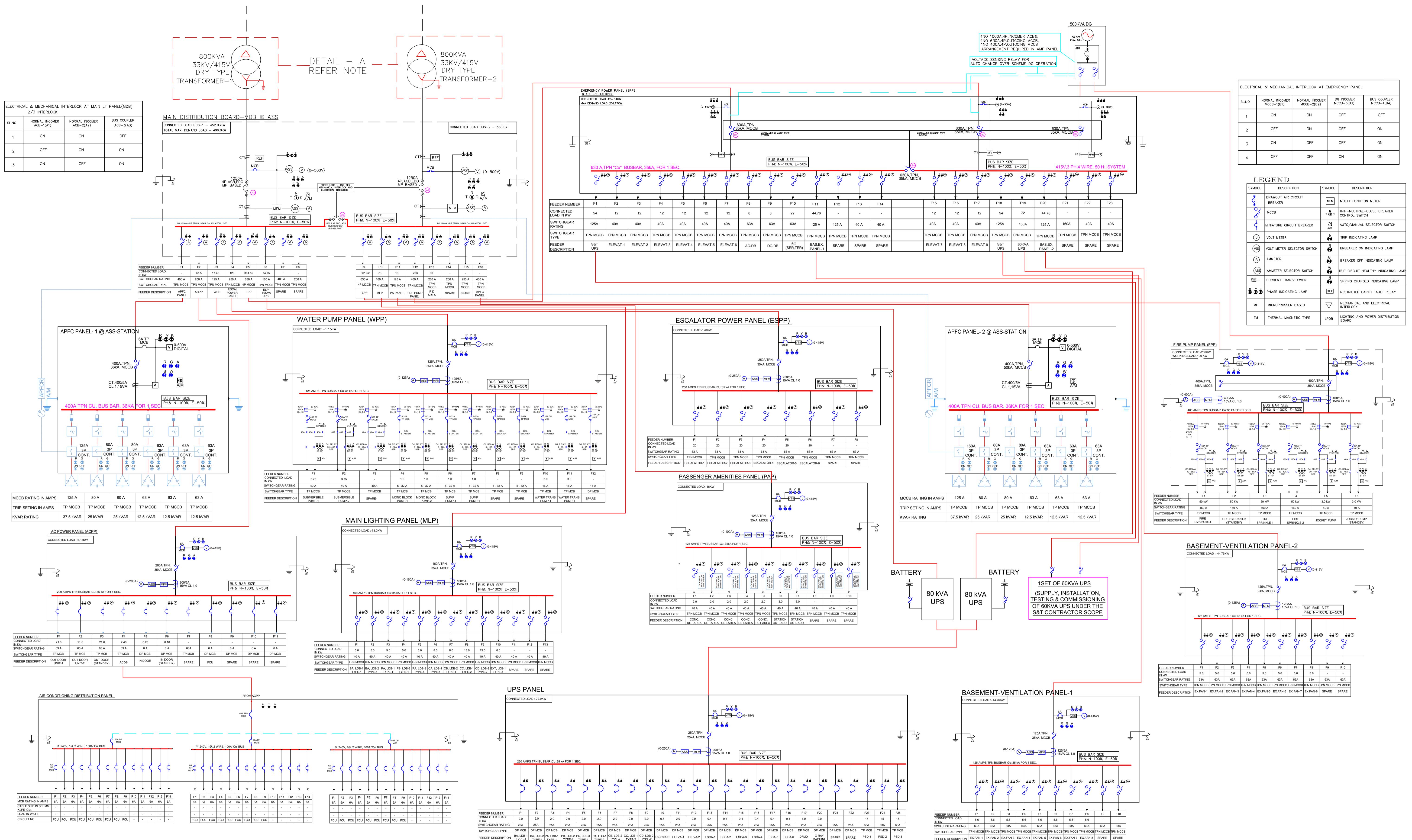
E&M  
TENDER DRAWING

F  
E  
D  
C  
B  
A  
Page 9

PROJECT		DATE	
DRAWN BY		APRIL-2018	
DESIGN BY			
CHECKED BY			
APPROVED BY			
TITLE		DRAWING TITLE	
GENERAL PANEL DRAWING		ASS-2 MAIN SCHEMATIC DIAGRAM AAREY DEPOT	
DRAWING NO		MM3-GC-DEM-ELE-8-D24-1004	
REV. DATE		PREP. APPROVED	
DESCRIPTION			

R0 04-04-18 TENDER DRAWING





GENERAL CONSULTANCY SERVICES  
FOR MUMBAI METRO RAIL PROJECT, LINE No. 3  
COLABA-BANDRA-SEEPZ



E&M  
TENDER DRAWING

NAME

SIGN

PROJECT

MUMBAI METRO LINE 3 COLABA-BANDRA-SEEPZ

TITLE

GENERAL PANEL DRAWING

DRAWING TITLE

MAIN SCHEMATIC DIAGRAM  
FOR AAREY STATION

SCALE

NTS

DATE

APRIL -  
2018

REV. DATE

PREP APPROVED

DESCRIPTION

SL.NO	NORMAL INCOMER MCB-(B1)	NORMAL INCOMER MCB-(B2)	DC INCOMER MCB-(B3)	BUS COUPLER MCB-(B4)
1	ON	ON	OFF	OFF
2	OFF	ON	OFF	ON
3	ON	OFF	OFF	ON
4	OFF	OFF	ON	ON

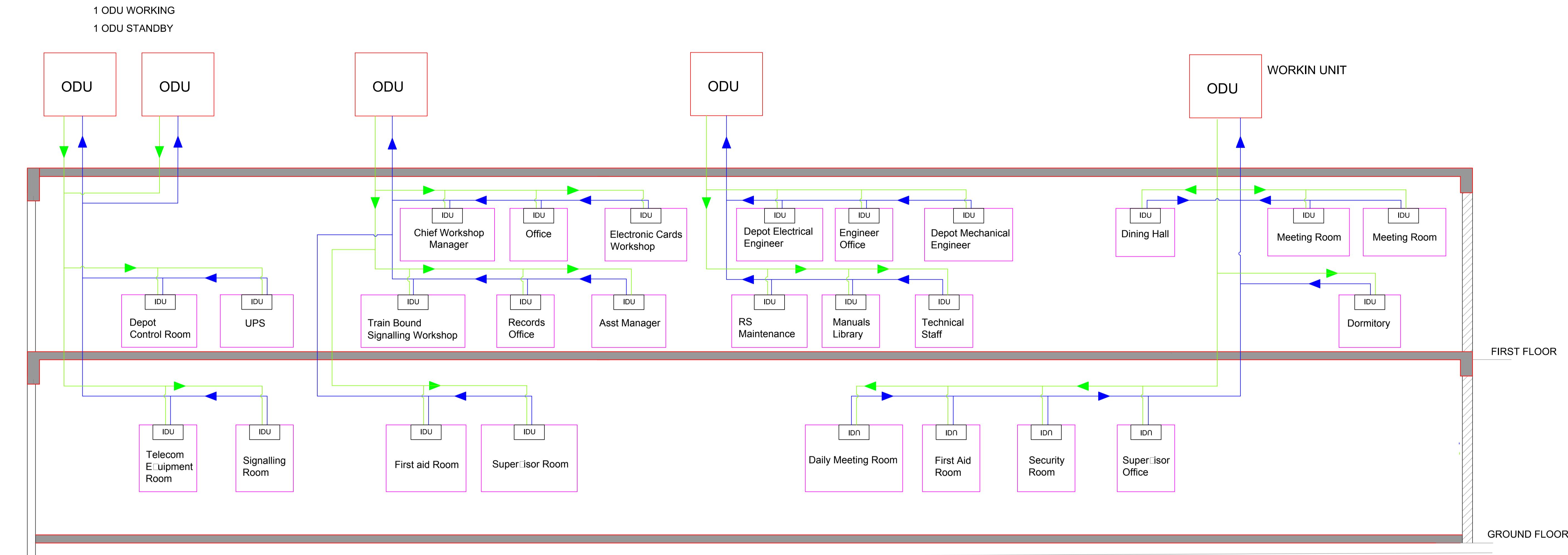
LEGEND	DESCRIPTION	SYMBOL
DRAWOUT AIR CIRCUIT BREAKER	MFB	MULTI FUNCTION METER
TRIP-NEUTRAL-CLOSE BREAKER CONTROL SWITCH	1(+)C	
MINIATURE CIRCUIT BREAKER	MCB	
AL/AUTO/MANUAL SELECTOR SWITCH	AMPS	
VOLT METER	V	TRIP INDICATING LAMP
VOLT METER SELECTOR SWITCH	VSS	TRIP ON INDICATING LAMP
AMMETER	A	BREAKER OFF INDICATING LAMP
AMMETER SELECTOR SWITCH	AMS	TRIP CIRCUIT HEALTHY INDICATING LAMP
CURRENT TRANSFORMER	CT	SPRING CHARGED INDICATING LAMP
PHASE INDICATING LAMP	PI	
RESTRICTED EARTH FAULT RELAY	REF	
MICROPROCESSOR BASED	MP	MECHANICAL AND ELECTRICAL INTERLOCK
TM THERMAL MAGNETIC TYPE	TM	LIGHTING AND POWER DISTRIBUTION BOARD

FIRE PUMP PANEL (FPP)	CONNECTED LOAD-200KW	WORKING LOAD-100 KW
(0-400A) ASS-MFB	400A TPN, 350A MCB	400A TPN, 350A MCB
(0-400A) ASS-MFB	400A TPN, 350A MCB	400A TPN, 350A MCB
(0-400A) ASS-MFB	400A TPN, 350A MCB	400A TPN, 350A MCB
(0-400A) ASS-MFB	400A TPN, 350A MCB	400A TPN, 350A MCB

BASIN-VENTILATION PANEL-2	CONNECTED LOAD-44.79KW
(0-125A) ASS-MFB	125A TPN, 350A MCB
(0-125A) ASS-MFB	125A TPN, 350A MCB
(0-125A) ASS-MFB	125A TPN, 350A MCB
(0-125A) ASS-MFB	125A TPN, 350A MCB
(0-125A) ASS-MFB	125A TPN, 350A MCB

R0 04-04-2018	TENDER DRAWING
REV. DATE	PREP APPROVED
DESCRIPTION	maple MUMBAI METRO LINE-3 GENERAL CONSULTANT

# TYPICAL VRF SCHEMATIC DRAWING FOR WORKSHOP BUILDING



NOTE: 1) IDU/ODU BASED ON CURRENT ARCHITECTURE PLAN  
2) ACTUAL QTY. OF IDU/ODU SHALL BE ACCORDING TO FINAL ARCHITECTURE PLAN IF ANY ISSUED LATER.

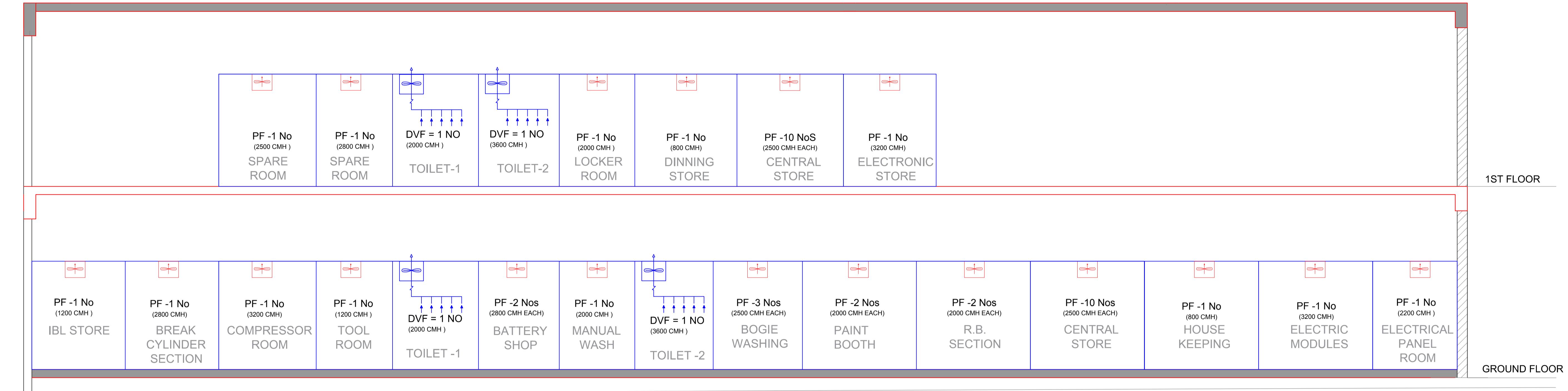
Ref. Dwg. - MML3-CBS/MMRC/IC/DEP/AR/1001- DWG Status - P  
MML3-CBS/MMRC/IC/DEP/AR/1002- DWG Status - P  
MML3-CBS/MMRC/IC/DEP/AR/1003- DWG Status - P  
MML3-CBS/MMRC/IC/DEP/AR/1004- DWG Status - P  
Dwg Received as on 31 Oct 2017

LEGENDS:	
SYMBOL	DESCRIPTION
ODU	Outdoor unit (ODU)
IDU	Indoor Unit (IDU)
—	REFRIGERANT SUPPLY PIPING.
—	REFRIGERANT RETURN PIPING

R0	04-04-18	TENDER DRAWING
REV.	DATE PREP. APPROVED	DESCRIPTION

	GENERAL CONSULTANCY SERVICES FOR MUMBAI METRO RAIL PROJECT, LINE No. 3 COLABA-BANDRA-SEEPZ	KEY PLAN 	E&M TENDER DRAWING	DRAWN BY DESIGN BY CHECKED BY APPROVED BY	NAME SIGN	PROJECT MUMBAI METRO LINE 3 COLABA-BANDRA-SEEPZ TITLE VAC GENERAL ARRANGEMENT DRAWING DRAWING TITLE TYPICAL VRF SCHEMATIC FOR WORKSHOP BUILDING DRAWING NO MM3-GC-DEM-VAC-8-D24-1101	DATE APRIL - 2018	SCALE NTS	 MUMBAI METRO LINE-3 GENERAL CONSULTANT
F	E		D	04-04-2018	C	B	A		

## TYPICAL VENTILATION SCHEMATIC DRAWING FOR WORKSHOP BUILDING



Ref. Dwg. - MML3-CBS/MMRC/IC/DEP/AR/1001- DWG Status - P  
 MML3-CBS/MMRC/IC/DEP/AR/1002- DWG Status - P  
 MML3-CBS/MMRC/IC/DEP/AR/1003- DWG Status - P  
 MML3-CBS/MMRC/IC/DEP/AR/1004- DWG Status - P  
 Dwg Received as on 31 Oct 2017

LEGENDS:	
SYMBOL	DESCRIPTION
	Wall Mounted PROPELLER FAN
	DUCTABLE AXIAL FAN

NOTE:  
 DVF = DUCTABLE VENTILATION FAN  
 PF = PROPELLER FAN

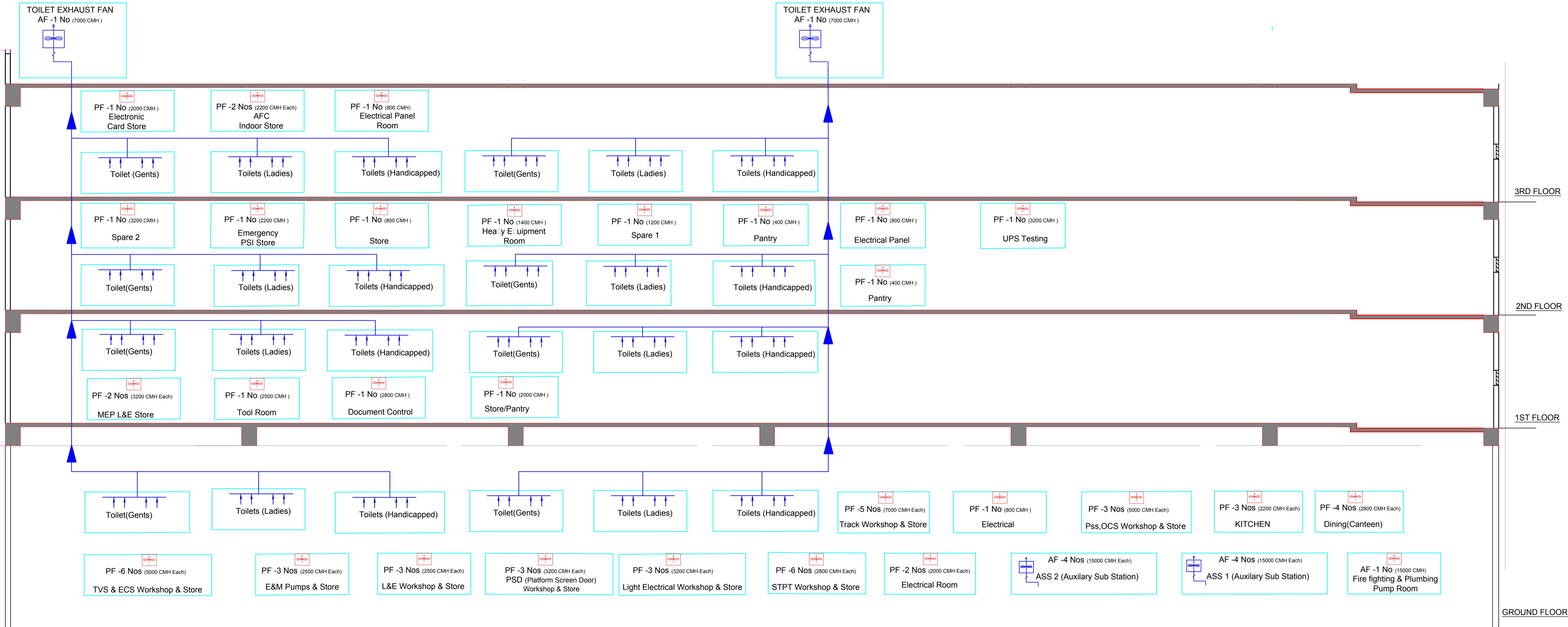
NOTE : FRESH AIR COMING FROM FRESH AIR LOUVERS

R0	04-04-18	TENDER DRAWING
REV.	DATE	PREP. APPROVED



 <b>GENERAL CONSULTANCY SERVICES FOR MUMBAI METRO RAIL PROJECT, LINE No. 3 COLABA-BANDRA-SEEPZ</b>	<b>KEY PLAN</b> 	<b>E&amp;M</b> <b>TENDER DRAWING</b>	<b>NAME</b> <b>SIGN</b>	<b>PROJECT</b> <b>MUMBAI METRO LINE 3 COLABA-BANDRA-SEEPZ</b>			<b>DATE</b> <b>APRIL - 2018</b>	<b>SCALE</b> <b>NTS</b>		
				<b>DRAWN BY</b> 	<b>DESIGN BY</b> 	<b>CHECKED BY</b> 				
<b>TITLE</b> <b>VAC GENERAL ARRANGEMENT DRAWING</b>			<b>DRAWING TITLE</b> <b>TYPICAL VENTILATION SCHEMATIC FOR WORKSHOP BUILDING</b>							
<b>DRAWING NO</b> <b>MM3-GC-DEM-VAC-8-D24-1102</b>			<b>C</b>			<b>B</b>				
F	E	D	04-04-2018				A			

## TYPICAL VENTILATION SCHEMATIC DIAGRAM FOR OCC BUILDING



NOTE : 1) FRESH AIR COMING FROM FRESH AIR LOUVERS.  
2) FOR QTY OF VENTILATION FANS PLEASE REFER BOQ.

NOTE:  
PF = PROPELLER FAN  
AF = AXIAL FAN

Ref. Dwg. - Dwg Received as on 31 Oct 2017

LEGENDS:	
SYMBOL	DESCRIPTION
	PROPELLER FAN (Ventilation Fan)
	AXIAL FAN (Ventilation Fan)



KEY PLAN



**E&M**  
**TENDER DRAWING**

PROJECT  
DRAWN BY  
DESIGN BY  
CHECKED BY  
APPROVED BY

MUMBAI METRO LINE 3 COLABA-BANDRA-SEEPZ  
TITLE  
VAC GENERAL ARRANGEMENT  
DRAWING  
DRAWING NO MM3-GC-DEM-VAC-8-D24-1103

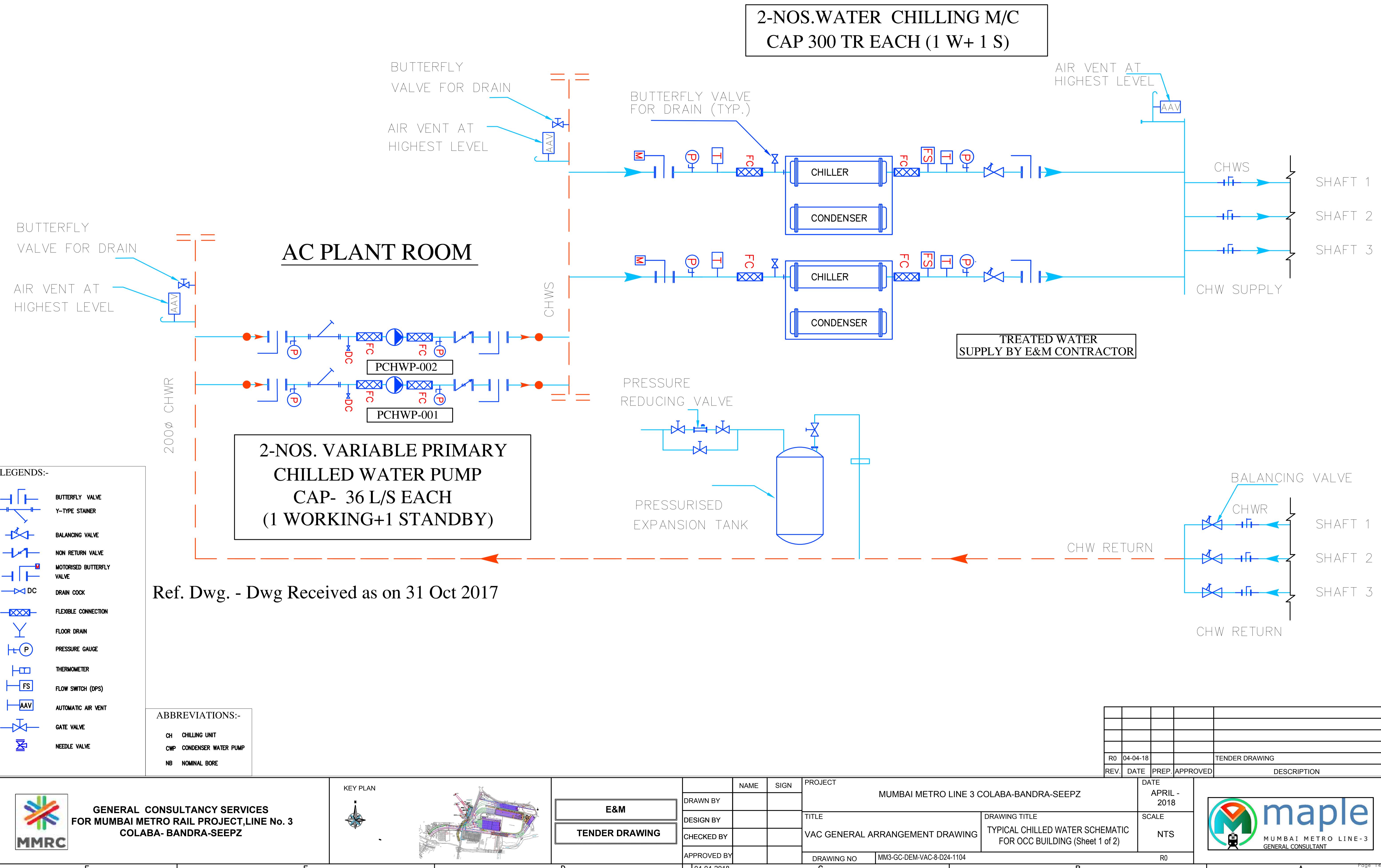
R0	04-04-18	TENDER DRAWING	
REV.	DATE	PREP	APPROVED

DATE  
APRIL - 2018

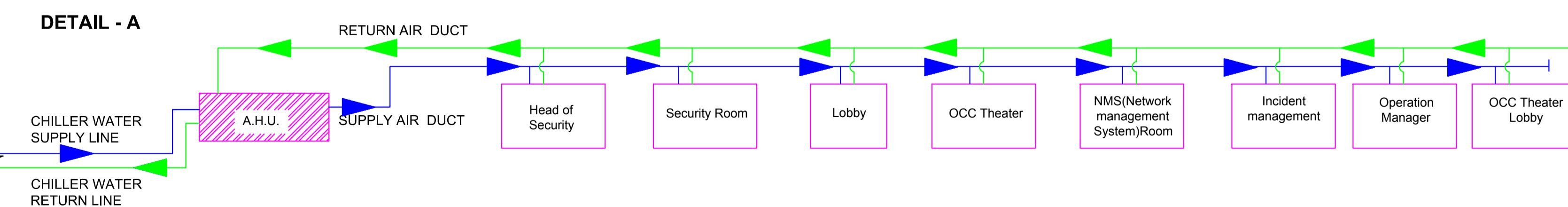
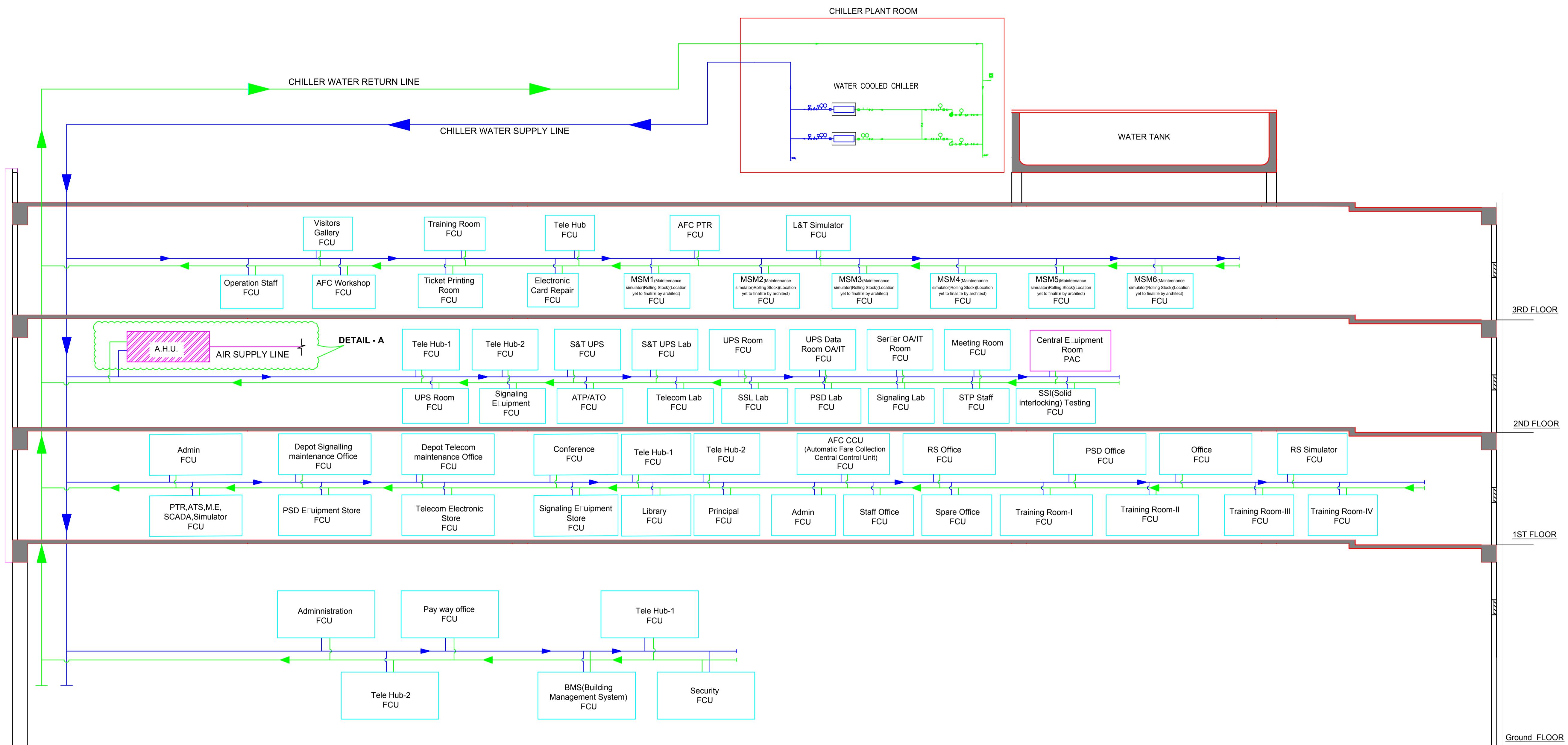
SCALE  
NTS

DESCRIPTION

# TYPICAL CHILLED WATER SCHEMATIC DRAWING FOR OCC BUILDING



# TYPICAL CHILLED WATER SCHEMATIC DRAWING FOR OCC BUILDING



Ref. Dwg. - Dwg Received as on 31 Oct 2017

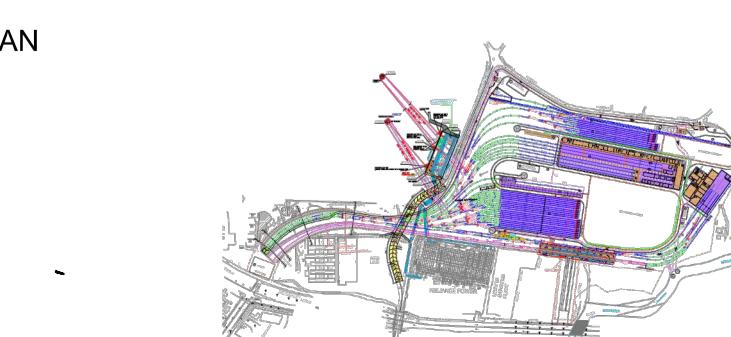
NOTE : 1) QTY OF AIR CONDITION EQUIPMENT AS PER BOQ.  
2) FCU SHALL BE PROVIDED AS PER FINAL APPROVED LAYOUT.

REV.	DATE	PREP	APPROVED	DESCRIPTION
R0	04-04-18			TENDER DRAWING



GENERAL CONSULTANCY SERVICES  
FOR MUMBAI METRO RAIL PROJECT,LINE No. 3  
COLABA- BANDRA-SEEPZ

KEY PLAN



E&M  
TENDER DRAWING

04-04-2018

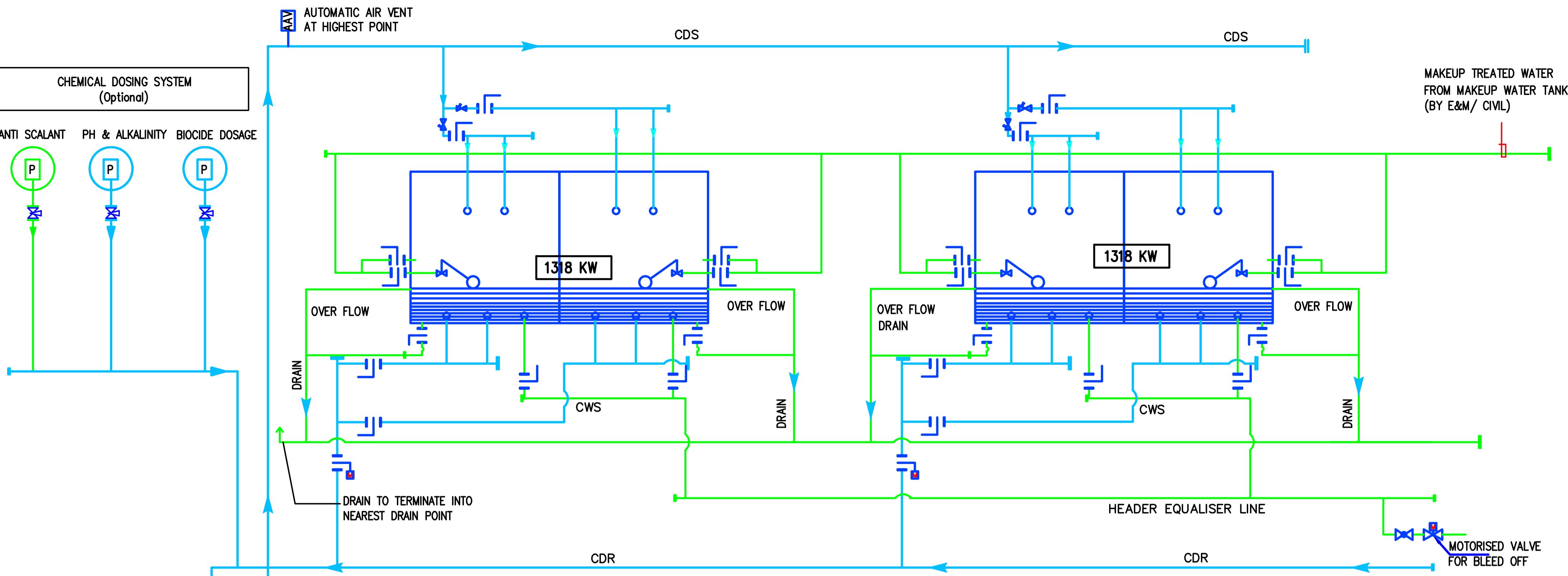
C

D

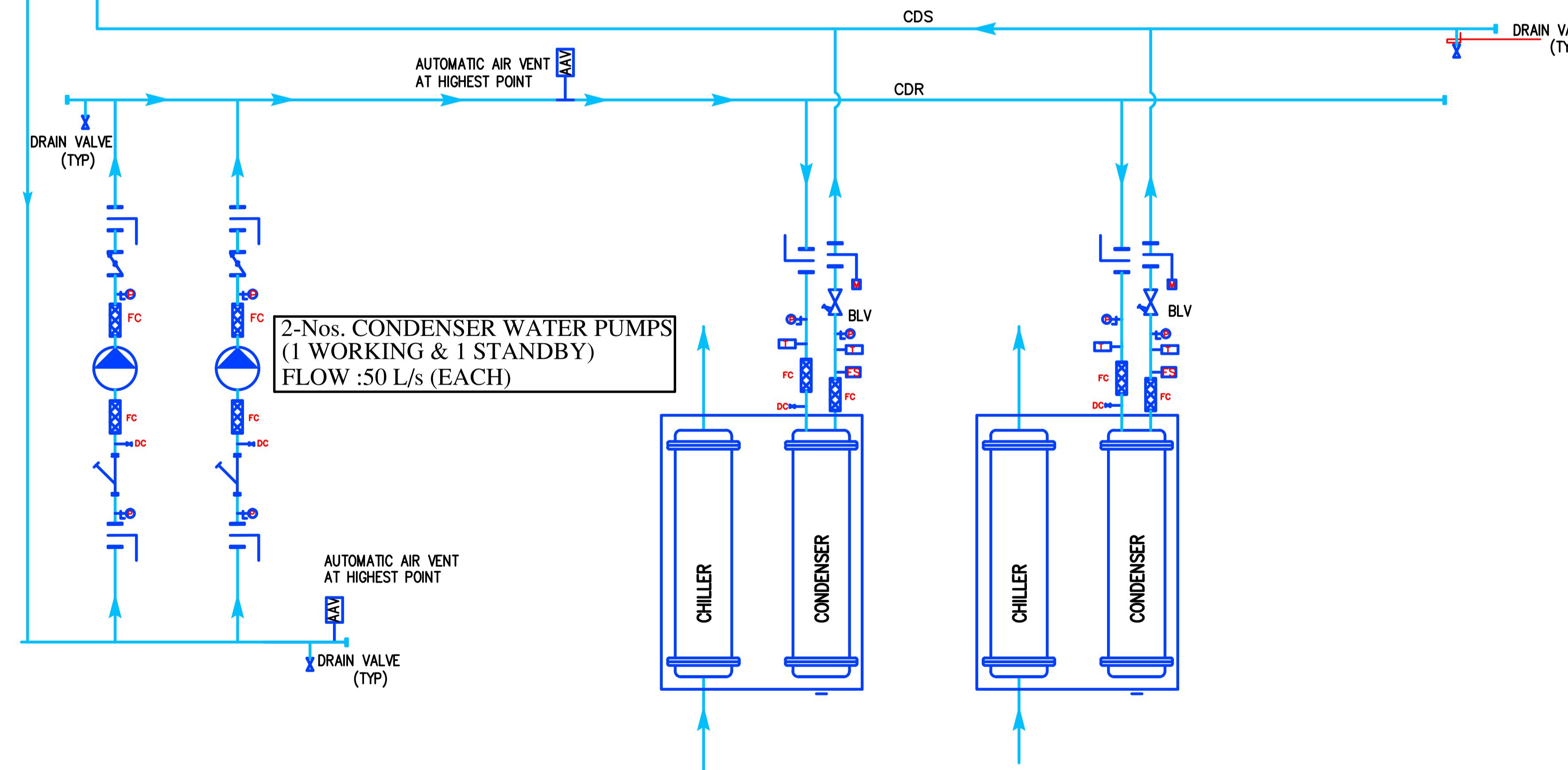
E

F





2-Nos. DOUBLE CELL COOLING TOWER  
CAP. 1318 KW (EACH)



2Nos. WATER CHILLING M/C  
CAP. 300 TR (EACH)

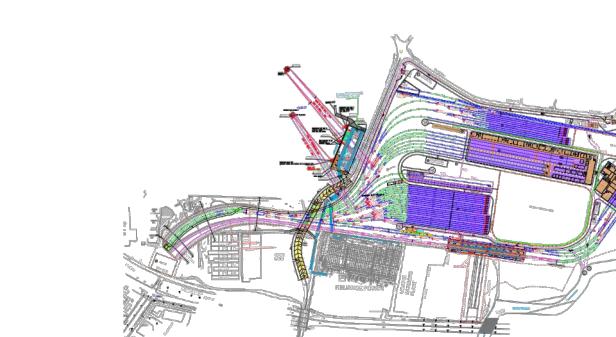
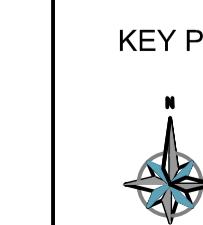
LEGENDS:-		ABBREVIATIONS:-	
→	CONDENSER WATER FLOW PIPE LINE	CH	CHILLING UNIT
→	CONDENSER WATER RETURN PIPE LINE	CWP	CONDENSER WATER PUMP
+	BUTTERFLY VALVE	NB	NOMINAL BORE
+	Y-TYPE STRAINER	CWF	CONDENSER WATER FLOW
+	BALANCING VALVE	CWR	CONDENSER WATER RETURN
+	NON RETURN VALVE	CT	COOLING TOWER
+	MOTORISED BUTTERFLY VALVE		
+	DRAIN COCK		
+	FLEXIBLE CONNECTION		
+	FLOOR DRAIN		
+	PRESSURE GAUGE		
+	THERMOMETER		
+	FLOW SWITCH (DPS)		
+	AAV		
+	GATE VALVE		
+	NEEDLE VALVE		

Ref. Dwg. - Dwg Received as on 31 Oct 2017

REV.	DATE	PREP	APPROVED	DESCRIPTION
R0	04-04-18			TENDER DRAWING



GENERAL CONSULTANCY SERVICES  
FOR MUMBAI METRO RAIL PROJECT, LINE No. 3  
COLABA-BANDRA-SEEPZ



E&M  
TENDER DRAWING

PROJECT  
DRAWN BY  
DESIGN BY  
CHECKED BY  
APPROVED BY

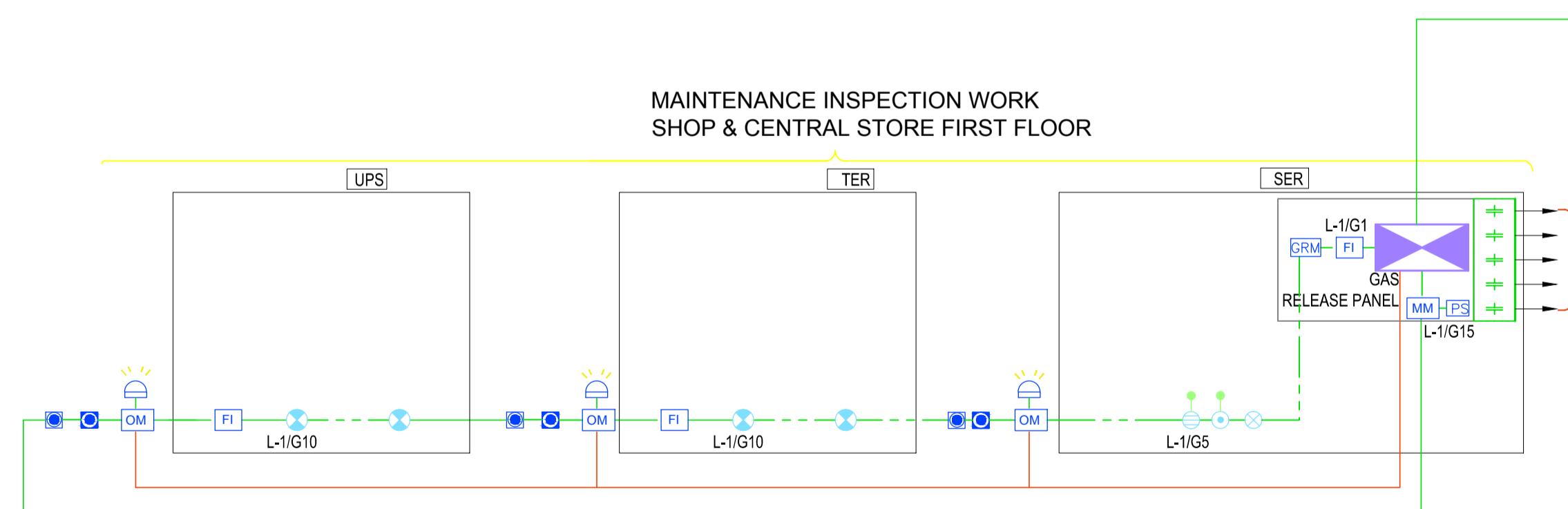
MUMBAI METRO LINE 3 COLABA-BANDRA-SEEPZ

DATE  
APRIL -  
2018

maple  
MUMBAI METRO LINE-3  
GENERAL CONSULTANT



SYMBOL	DESCRIPTION
(X)	ADDRESSABLE MULTIPLE SENSOR DETECTOR FOR BELOW FALSE CEILING/AT SLAB
(●)	ADDRESSABLE HEAT DETECTOR
(○)	ADDRESSABLE MULTIPLE SENSOR DETECTOR FOR ABOVE FALSE CEILING
(◎)	ADDRESSABLE MULTIPLE SENSOR DETECTOR FOR BELOW RAISE FLOOR
(H)	HOOTER CUM STROBE
(OM)	ADDRESSABLE OUTPUT MODULE
(FI)	ADDRESSABLE FAULT ISOLATOR
(R)	ADDRESSABLE MANUAL CALL BOX RECESSED IN WALL AT 1.4m HEIGHT
(I)	RESPONSE INDICATOR WITH TWIN HIGH INTENSITY LEDs MOUNTED
(C)	2x1.5sq mm COPPER CONDUCTOR CABLE FOR FIRE ALARM
(P)	2x1.5sq mm POWER CABLE FOR STROBE
(S)	CABLE FOR SPEAKER
(FACP)	ADDRESSABLE MAIN FIRE ALARM CONTROL PANEL
(RP)	REPEATER PANEL
(PA)	P A PANEL

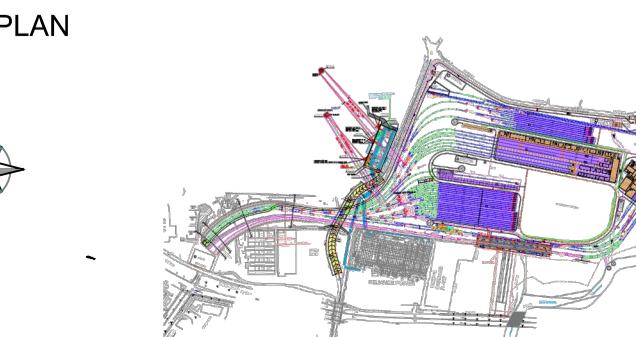


DATE	APRIL - 2018	TENDER DRAWING		
REV.	DATE	PREP.	APPROVED	DESCRIPTION
R0	04-04-18			



GENERAL CONSULTANCY SERVICES  
FOR MUMBAI METRO RAIL PROJECT, LINE No. 3  
COLABA-BANDRA-SEEPZ

KEY PLAN



E&M  
TENDER DRAWING

D

04-04-2018

C

04-04-2018

B

04-04-2018

A

04-04-2018

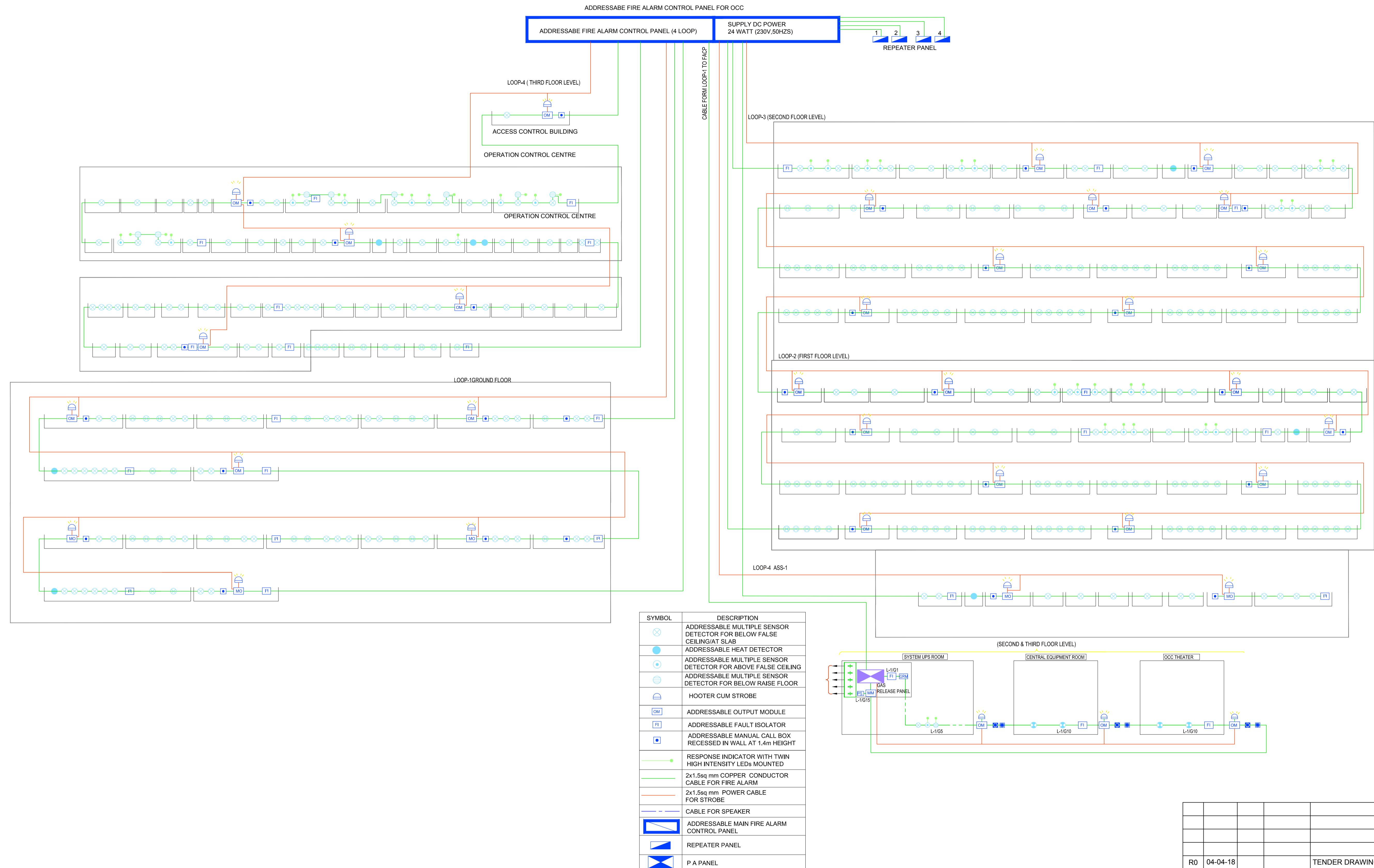
MUMBAI METRO LINE 3 COLABA-BANDRA-SEEPZ

TITLE  
FF GENERAL ARRANGEMENT  
DRAWING  
DRAWING TITLE  
TYPICAL SINGLE LINE DIAGRAM FIRE  
ALARM SYSTEM DEPOT

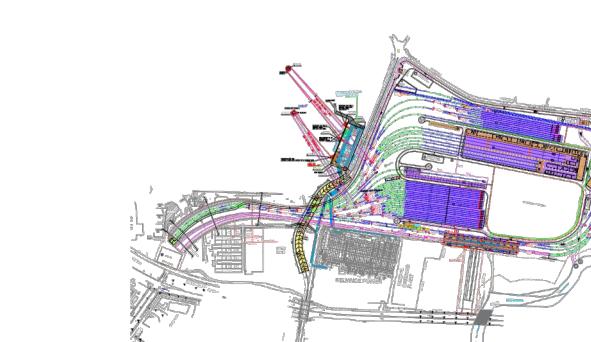
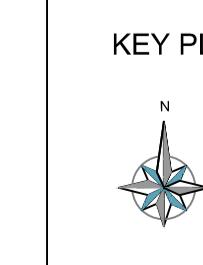
SCALE  
NTS

maple  
MUMBAI METRO LINE-3  
GENERAL CONSULTANT

# TYPICAL SINGLE LINE DIAGRAM FIRE ALARM SYSTEM OCC AND INFRASTRUCTURE BUILDING



GENERAL CONSULTANCY SERVICES  
FOR MUMBAI METRO RAIL PROJECT, LINE No. 3  
COLABA-BANDRA-SEEPZ



E&M  
TENDER DRAWING

D

04-04-2018

C

B

A

PROJECT  
MUMBAI METRO LINE 3 COLABA-BANDRA-SEEPZ

DATE  
APRIL -  
2018



MUMBAI METRO LINE-3  
GENERAL CONSULTANT

DRAWN BY

NAME

SIGN

PROJECT

TITLE  
FF GENERAL ARRANGEMENT  
DRAWING

DRAWING TITLE  
TYPICAL SINGLE LINE DIAGRAM FIRE  
ALARM SYSTEM OCC

SCALE  
NTS

DESIGN BY

APPROVED BY

DRAWING NO MM3-GC-DEM-FAD-8-D24-1202

DATE

APRIL -  
2018

REV.

DATE

PREP.

APPROVED

DESCRIPTION

C

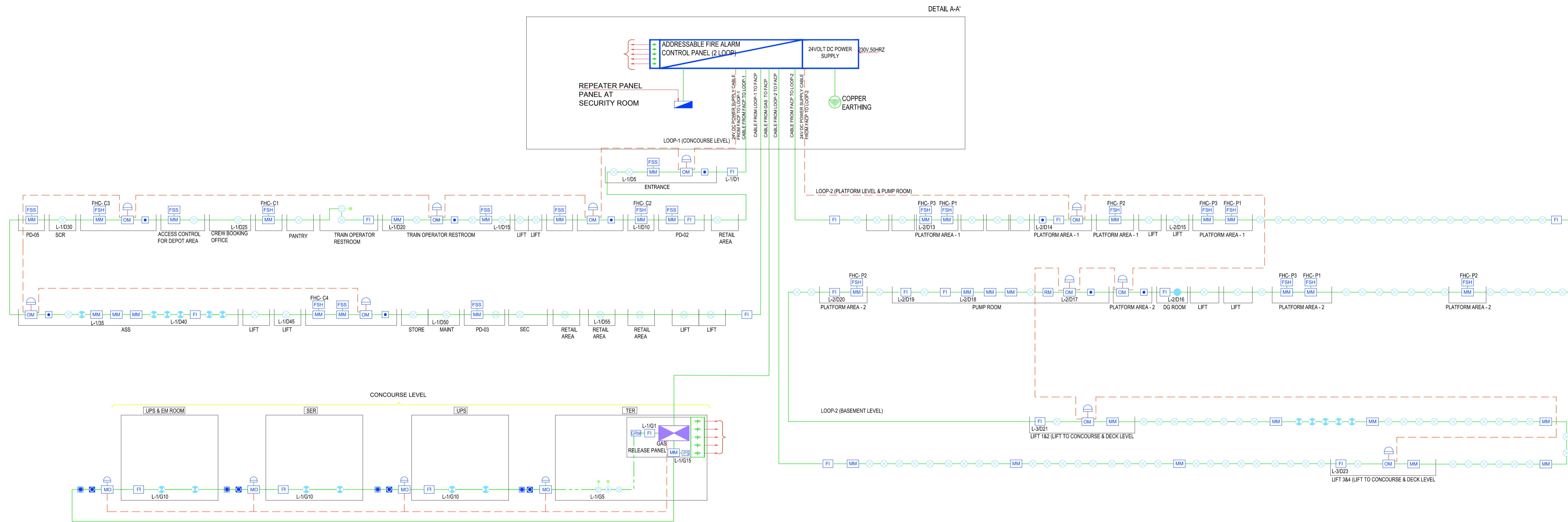
B

A

Page 18

# TYPICAL SCHEMATIC DIAGRAM FIRE ALARM SYSTEM FOR AAREY STATION

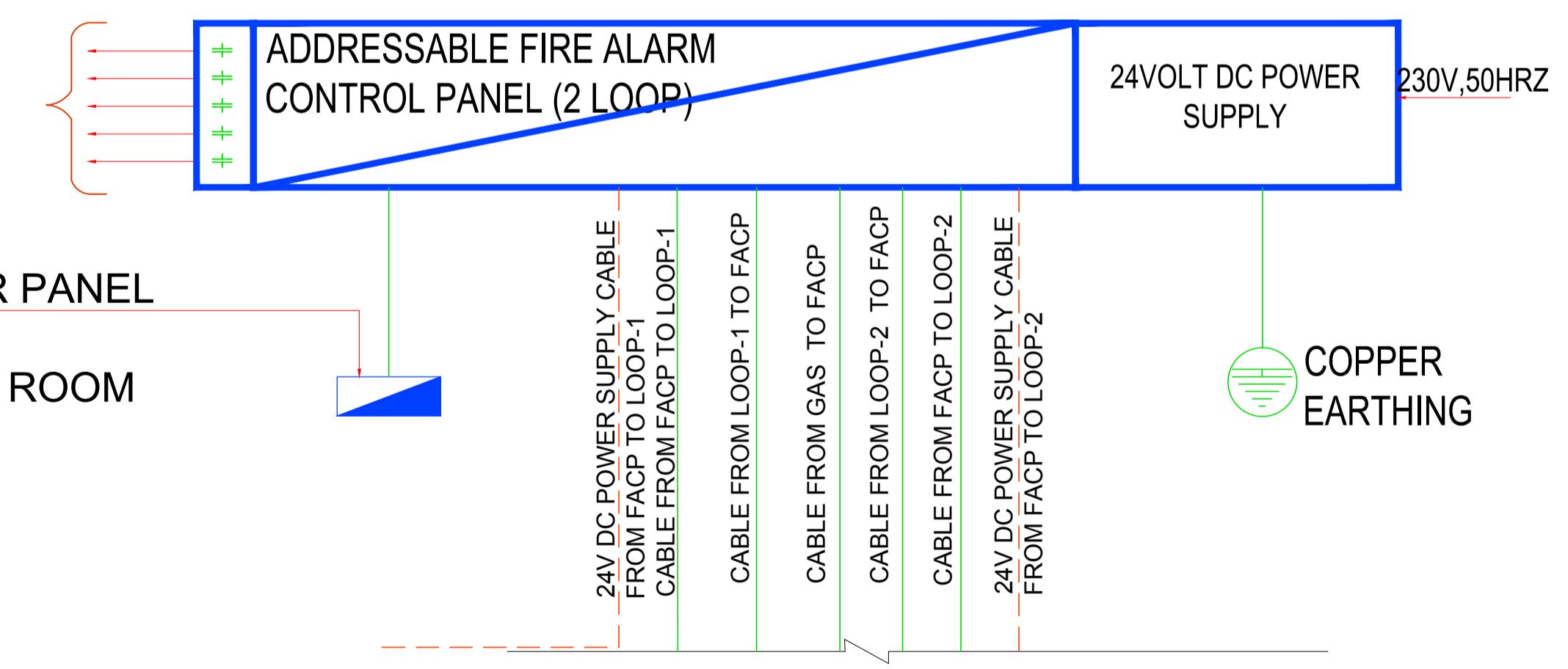
SCALE : NTS



NOTES:-	
1.	ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
3.	THE MAIN FIRE ALARM PANEL SHALL BE PROVIDED IN THE STATION CONTROL ROOM. PANEL SHOULD BE 2 LOOPS WITH A LOOP CAPACITY OF 120 DETECTORS. SAP/MIMIC PANEL SHALL BE PROVIDED IN THE FIREMAN'S STAIRCASE.
4.	4" X 4" MOUNTING SHALL BE PROVIDED FOR ABOVE FALSE/TRUE CEILING OR BELOW FALSE FLOOR DETAECTORS.
5.	ADDRESSABLE DETECTOR HAVE BEEN DENOTED AS "L-1/1,.....,L-1/120". L1 INDICATES MFAP LOOP No. L-1, L-2,.....,L-4. AND DETECTOR/ DEVICES Nos. 1, 2,.....,120. ADDRESSABLE DETECTOR HAVE BEEN DENOTED AS "L-1g/1,.....,L-1g/120". L1 INDICATES GRP LOOP No. L-1g, L-2g. AND DETECTOR/ DEVICES Nos 1, 2,.....,120.
6.	LOOP DISTRIBUTION FOR MFAP IS AS FOLLOWS:- LOOP 1 IS FOR CONCOURSE LEVEL. LOOP 2 IS FOR PLATFORM LEVEL & PUMP ROOM.
7.	CABLING SHALL BE 2C X 1.5 sq mm COPPER CONDUCTOR FRLS CABLE.
8.	MONITOR MODULES SHALL BE PROVIDED FOR CONNECTION TO FLOW SWITCH, PRESSURE SWITCH, ABOVE FALSE CEILING / FALSE FLOOR SHALL HAVE RESPONSE ABOVE FALSE CEILING/FALSE FLOOR SHALL HAVE RESPONSE INDICATOR
9.	DETECTORS NOT PROVIDED IN PUBLIC AREAS AS THEY ARE VENTILATED SPACED.
10.	FAULT ISOLATOR ARE PROVIDED AFTER 20 DETECTORS.

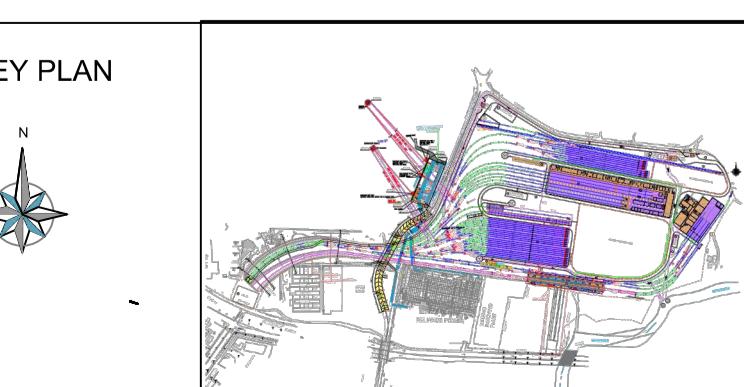
SYMBOL	DESCRIPTION
(X)	ADDRESSABLE MULTIPLE SENSOR DETECTOR FOR BELOW FALSE CEILING/AT SLAB
(●)	ADDRESSABLE HEAT DETECTOR
(○)	ADDRESSABLE MULTIPLE SENSOR DETECTOR FOR ABOVE FALSE CEILING
(○)	ADDRESSABLE MULTIPLE SENSOR DETECTOR FOR BELOW RAISE FLOOR
(H)	HOOTER CUM STROBE
(OM)	ADDRESSABLE OUTPUT MODULE
(FI)	ADDRESSABLE FAULT ISOLATOR
(□)	ADDRESSABLE MANUAL CALL BOX RECESSED IN WALL AT 1.4m HEIGHT
(●)	RESPONSE INDICATOR WITH TWIN HIGH INTENSITY LEDs MOUNTED
(—)	2x1.5sq mm COPPER CONDUCTOR CABLE FOR FIRE ALARM
(—)	2x1.5sq mm POWER CABLE FOR STROBE
(—)	CABLE FOR SPEAKER
(■)	ADDRESSABLE MAIN FIRE ALARM CONTROL PANEL
(■)	REPEATER PANEL

**REPEATER PANEL  
PANEL AT  
SECURITY ROOM**



GENERAL CONSULTANCY SERVICES  
FOR MUMBAI METRO RAIL PROJECT, LINE No. 3  
COLABA-BANDRA-SEEPZ

KEY PLAN



E&M  
TENDER DRAWING

D

04-04-2018

C

MUMBAI METRO LINE 3 COLABA-BANDRA-SEEPZ

DATE  
APRIL -  
2018

TITLE  
FF GENERAL ARRANGEMENT DRAWING  
DRAWING TITLE  
TYPICAL SCHEMATIC DIAGRAM OF  
FIRE-ALARM SYSTEM FOR AAREY  
STATION

SCALE  
NTS

DRAWING NO  
MM3-GC-DEM-FAD-8-D24-1203



R0 04-04-18

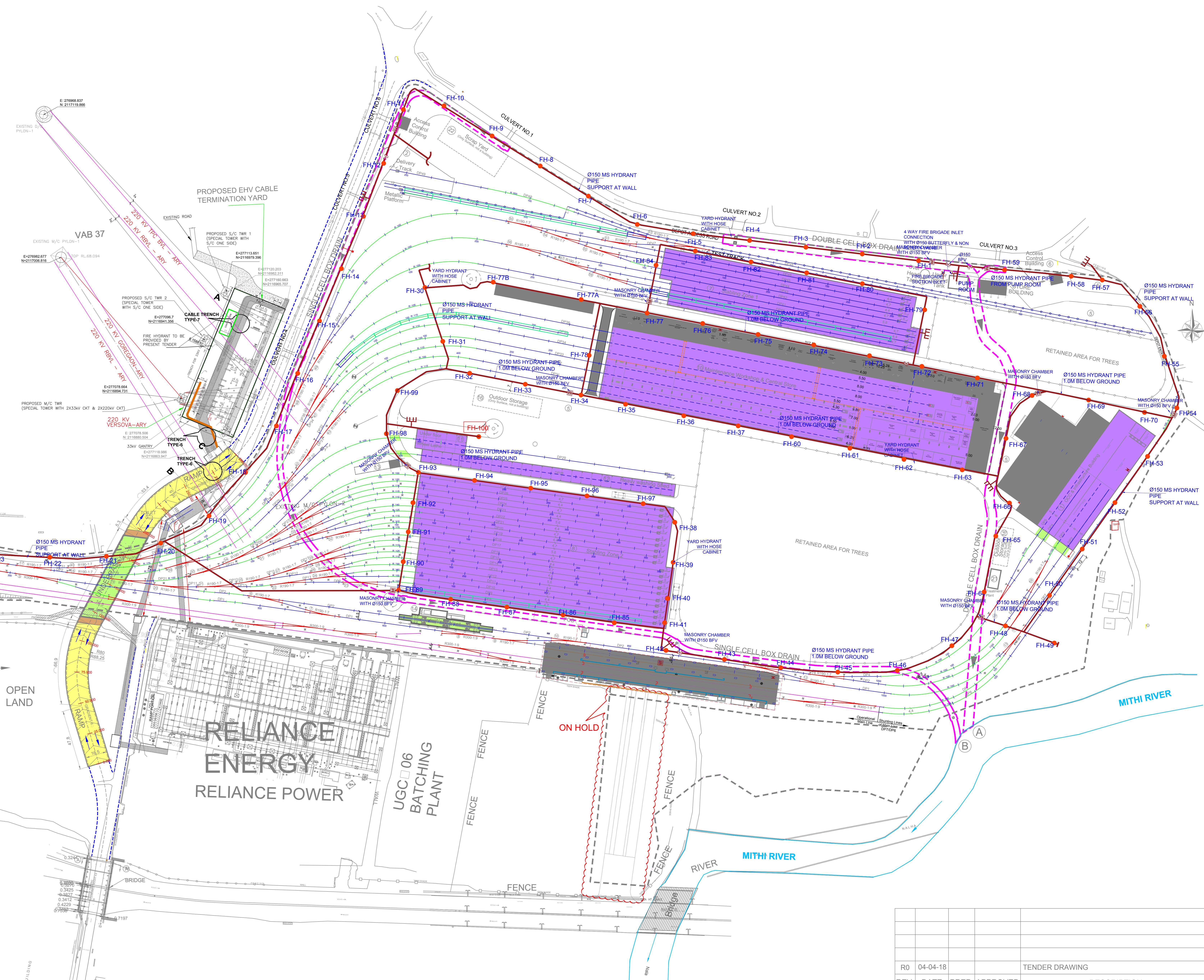
TENDER DRAWING

REV. DATE PREP. APPROVED

DESCRIPTION

A  
Page 19

FIRE FIGHTING LEGEND	
	SINGLE HYDRANT VALVE
	BRANCH PIPE WITH NOZZLE
	FIRST AID HOSE REEL (RRL)
	RRL HOSE PIPE WITH STAIN LESS STEEL MALE & FEMALE COUPLING
	FHC FIRE HOSE CABINET
	BFV BUTTERFLY VALVE
	NRV CHECK VALVE / NON RETURN VALVE
	FOUR WAY FIRE BRIGADE INLET CONNECTION
	FIRE BRIGADE SUCTION INLET
	YARD HYDRANT
	REPEATER PANEL
	HYDRANT PIPE ABOVE GROUND
	HYDRANT PIPE BELOW GROUND
	MASONRY CHAMBER WITH Ø150 BFV

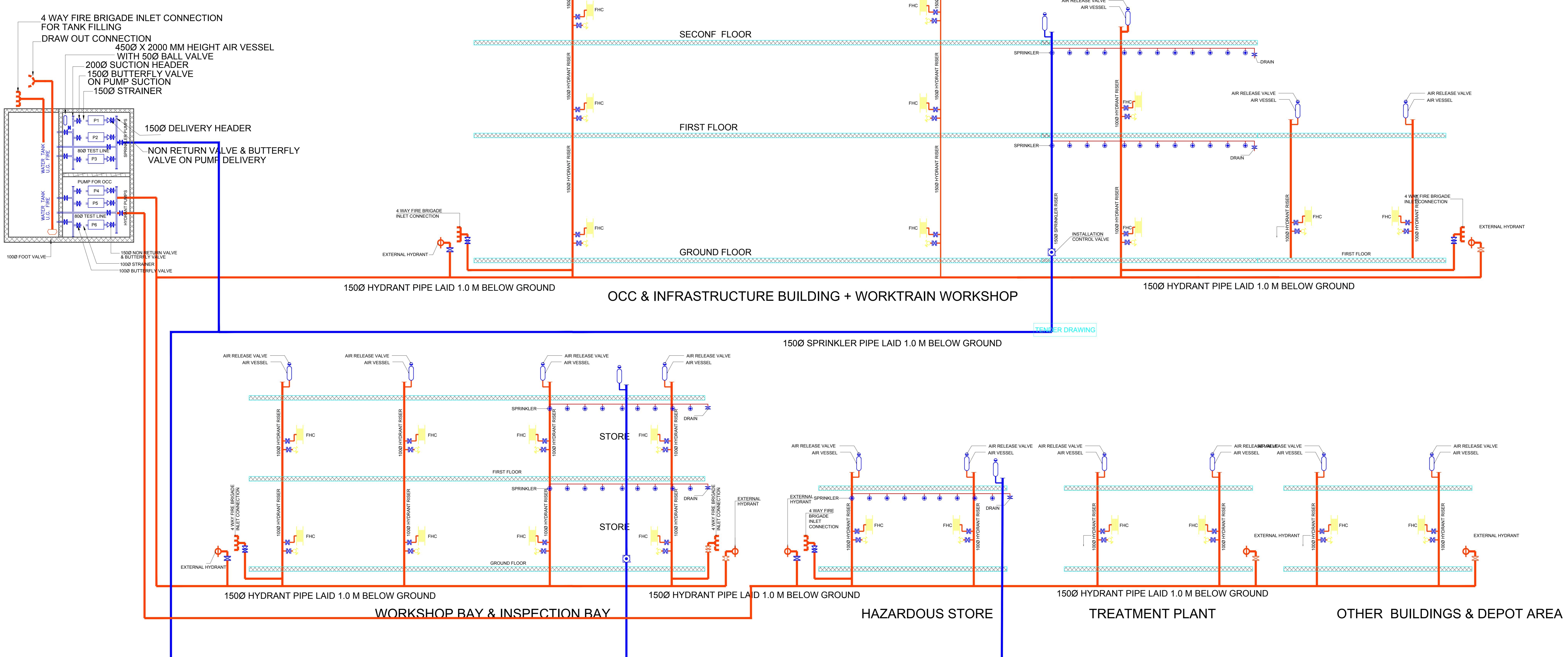


# SCHEMATIC DIAGRAM FOR FIRE FIGHTING SYSTEM

## SCALE : NTS

EQUIPMENT LIST					
TAG NO.	DESCRIPTION	CAPACITY	HEAD	QTY.	DESCRIPTION
P1	MAIN PUMP	2850 LPM	90 MTRS.	1 NO.	ELECTRICAL
P2	STANDBY PUMP	2850 LPM	90 MTRS.	1 NO.	ELECTRICAL
P3	JOCKEY PUMP (VERTICAL)	180 LPM	90 MTRS.	1 NO.	ELECTRICAL
P4	MAIN PUMP FOR OCC	2850 LPM	90 MTRS.	1 NO.	ELECTRICAL
P5	STANDBY PUMP FOR OCC	2850 LPM	90 MTRS.	1 NO.	ELECTRICAL
P6	JOCKEY PUMP FOR OCC	180 LPM	90 MTRS.	1 NO.	ELECTRICAL

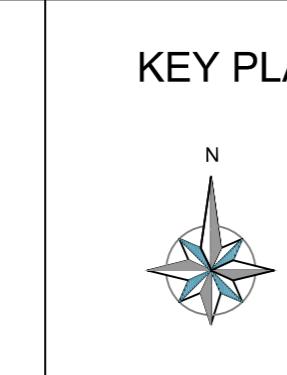
LEGEND	
SYMBOL	DESCRIPTION
●	FIRE PIPE RISER
※	FIRST AID HOSE REEL WITH 36m X Ø20mm HOSE PIPE WITH 25mm DIA BALL VALVE
■	STAINLESS STEEL OBLIQUE SINGLE LANDING COUPLING
□	NON-RETURN VALVE (NRV)
△	BUTTERFLY VALVE (BFV)
○	FOUR WAY FIRE BRIGADE INLET CONNECTION
◇	FIRE BRIGADE DRAW OUT CONNECTION
Φ	EXTERNAL FIRE HYDRANT WITH HOSE CABINET
—	MS FIRE HYDRANT PIPE OVER GROUND



R0	04-04-18	TENDER DRAWING	
REV.	DATE	PREP.	APPROVED
DESCRIPTION			



GENERAL CONSULTANCY SERVICES  
FOR MUMBAI METRO RAIL PROJECT, LINE No. 3  
COLABA-BANDRA-SEEPZ



E&M  
TENDER DRAWING

D

04-04-2018

C B A

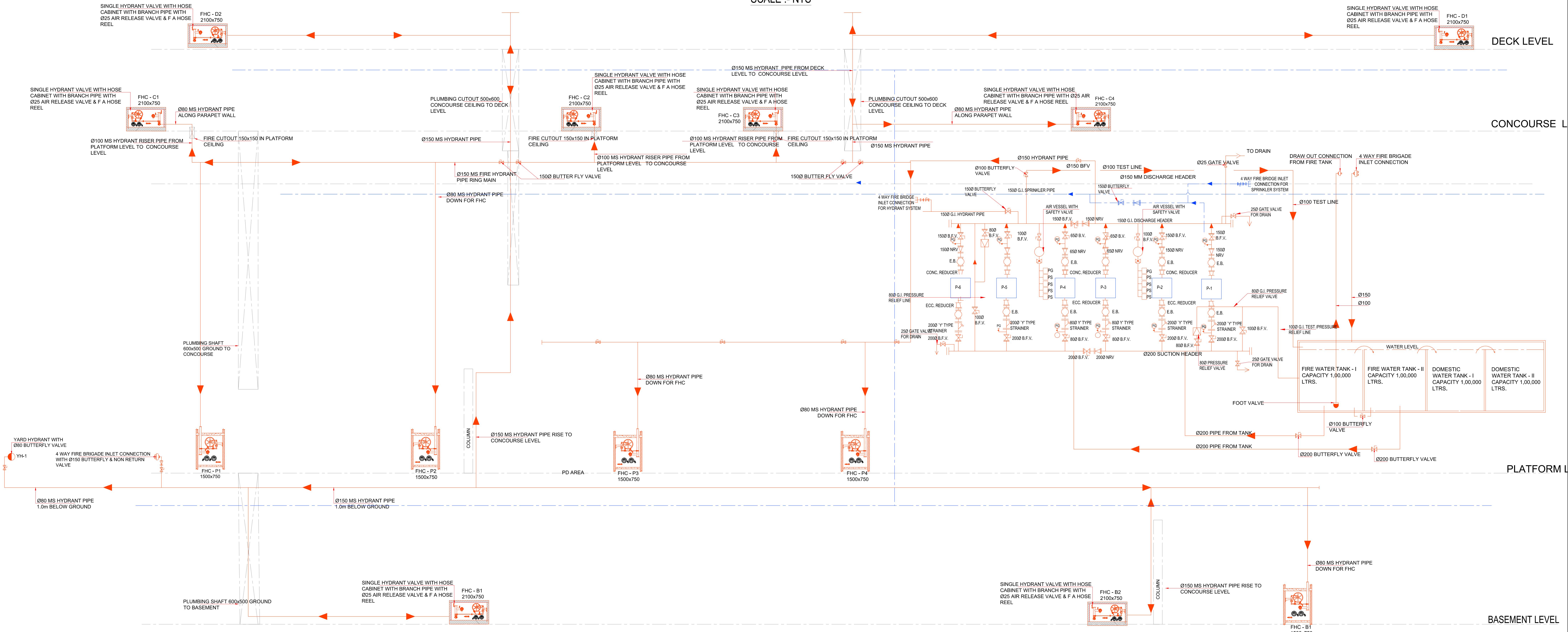
PROJECT  
MUMBAI METRO LINE 3 COLABA-BANDRA-SEEPZ  
TITLE  
FF GENERAL ARRANGEMENT DRAWING  
DRAWING TITLE  
TYPICAL FIRE SUPPRESSION  
SYSTEM FOR DEPOT  
DRAWING NO  
MM3-GC-DEM-FF-8-D24-1302

DATE  
APRIL -  
2018  
SCALE  
NTS



**AAREY STATION**  
**SCHEMATIC DIAGRAM - FIRE FIGHTING SYSTEM**

SCALE :- NTS



SCHEDULE OF PUMPS

SYMBOL	DESCRIPTION	QTY.	TAG NO.	DESCRIPTION	HEAD	CAPACITY	POWER
	ECCENTRIC REDUCER	1	FP1	MAIN HYDRANT PUMP	70/90m	2850LPM	45 HP
	FIRST AID HOSE REEL WITH 45m X Ø25mm THERMOPLASTIC HOSE PIPE WITH BALL VALVE	1	FP2	STANDBY PUMP	70/90m	2850LPM	45 HP
	STAINLESS STEEL OBLIQUE SINGLE LANDING VALVE TO IS:5290 WITH INSTANTANEOUS COUPLING	1	FP3	JOCKEY PUMP (VERTICAL)	70/90m	180LPM	7.5 HP
	NON-RETURN VALVE (NRV)	1	FP4	SPRINKLER PUMP	70/90m	2850LPM	45 HP
	BUTTERFLY VALVE(BFV)	1	FP5	STANDBY PUMP (SPRINKLER)	70/90m	2850LPM	45 HP
	GATE VALVE	1	FP6	JOCKEY PUMP (VERTICAL)	70/90m	180LPM	7.5 HP

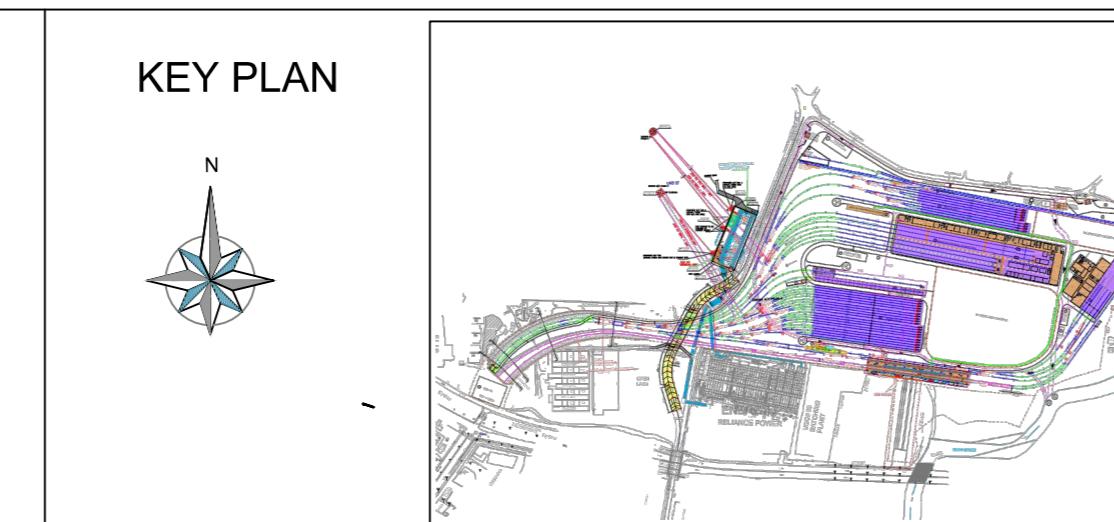
NOTE:

- concourse / platform level sprinkler system must design for some room like store room etc...
- Sprinkler system must be design for whole basement level

REV.	DATE	PREP.	APPROVED	DESCRIPTION
R0	04-04-18			TENDER DRAWING



GENERAL CONSULTANCY SERVICES  
FOR MUMBAI METRO RAIL PROJECT, LINE No. 3  
COLABA-BANDRA-SEEPZ



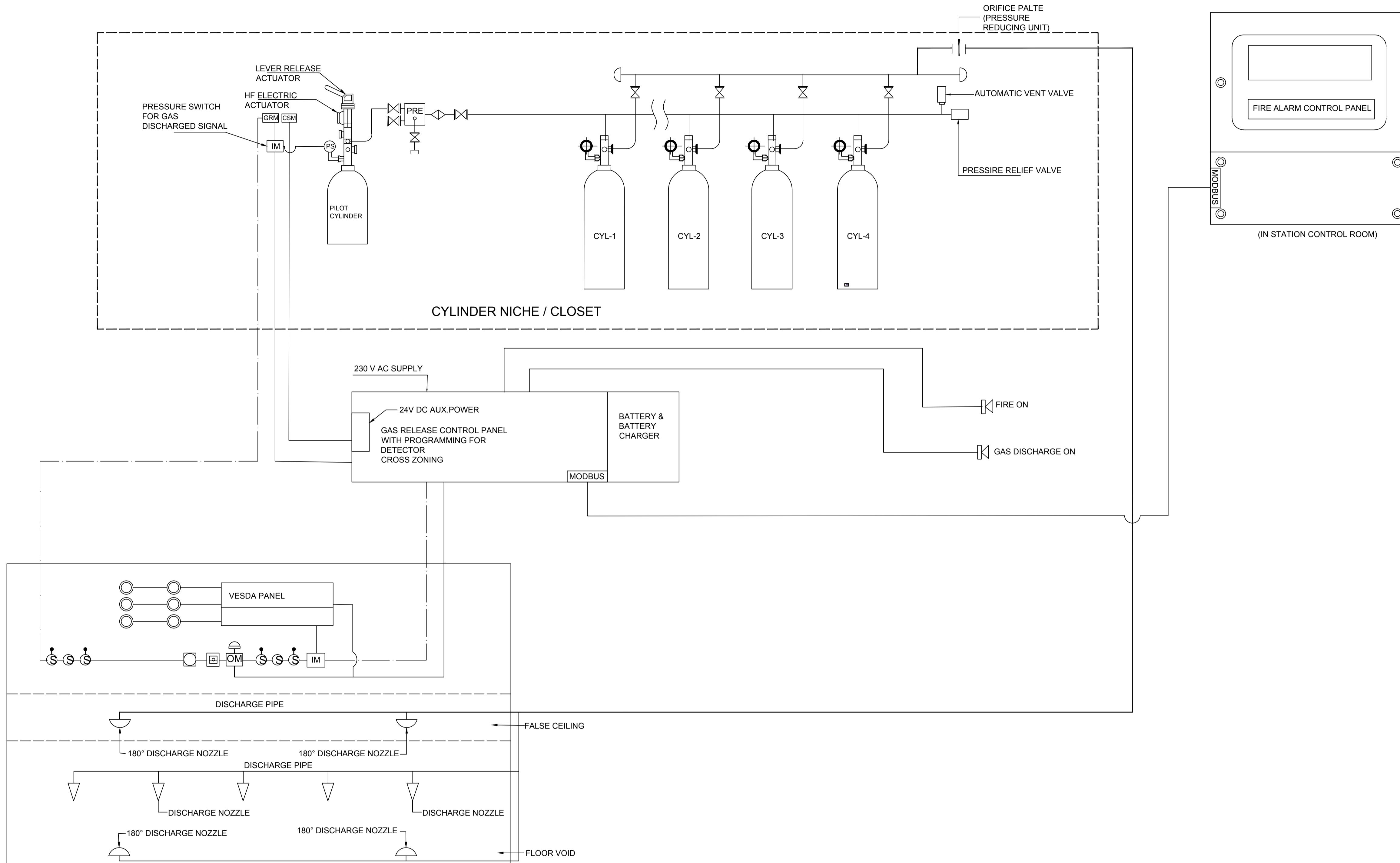
E&M
TENDER DRAWING

MUMBAI METRO LINE 3 COLABA-BANDRA-SEEPZ  
TITLE  
FF GENERAL ARRANGEMENT DRAWING  
DRAWING TITLE  
TYPICAL SCHEMATIC DIAGRAM  
FIRE SUPPRESSION SYSTEM  
AAREY STATIONS

DRAWING NO MM3-GC-DEM-FF-8-D24-1303



TYPICAL GAS FLOODING / VESDA SCHEMATIC DIAGRAM



LEGEND	
SYMBOL	DESCRIPTION
(S)	ADDRESSABLE OPTICAL SMOKE DETECTOR BELOW FALSE CEILING/SLAB
(S)	ADDRESSABLE OPTICAL SMOKE DETECTOR ABOVE FALSE CEILING.
(S)	ADDRESSABLE OPTICAL SMOKE DETECTOR BELOW FALSE FLOOR.
(D)	HOOTER
(OM)	ADDRESSABLE OUTPUT MODULE
(IM)	ADDRESSABLE INPUT MODULE
(FI)	ADDRESSABLE FAULT ISOLATOR
(■)	ADDRESSABLE MANUAL CALL BOX RECESSED IN WALL AT 1.2m HEIGHT
(—○)	RESPONSE INDICATOR WITH TWIN HIGH INTENSITY LEDs MOUNTED
(□)	MANUAL GAS ABORT SWITCH
(□)	MANUAL GAS RELEASE SWITCH
(GRM)	GAS RELEASE MODULE
(CSM)	COIL SUPPRESSION MODULE
—	2X2.5mm COPPER CONDUCTOR 24VDC CONTROL CABLE
—	2X1.5mm COPPER CONDUCTOR CABLE FOR FIRE ALARM
---	2X1.5mm COPPER CONDUCTOR CABLE FOR SUB ALARM PANEL
○	VESDA SAMPLING HOLE
—	AIR SAMPLING PIPE (BELOW FALSE CEILING)
---	AIR SAMPLING PIPE (BELOW FALSE FLOOR)
—	AIR SAMPLING PIPE (ABOVE FALSE CEILING)
■	VESDA PANEL

WARNING  
WHEN ALARM SOUNDER  
VACATE ONCE  
CLEAN GAS AGENT  
BEING RELEASED

WARNING SIGNAGE -INSIDE THE  
PROTECTED ROOM

PROJECT		DATE	
MUMBAI METRO LINE 3 COLABA-BANDRA-SEEPZ			APRIL - 2018
TITLE	DRAWING TITLE	SCALE	
FF GENERAL ARRANGEMENT DRAWING	TYPICAL SCHEMATIC DIAGRAM OF CLEAN GAS AGENT	NTS	
DRAWING NO	MM3-GC-DEM-FF-8-D24-1304	B	A
C			
D			
E			
F			



GENERAL CONSULTANCY SERVICES  
FOR MUMBAI METRO RAIL PROJECT, LINE No. 3  
COLABA-BANDRA-SEEPZ

KEY PLAN

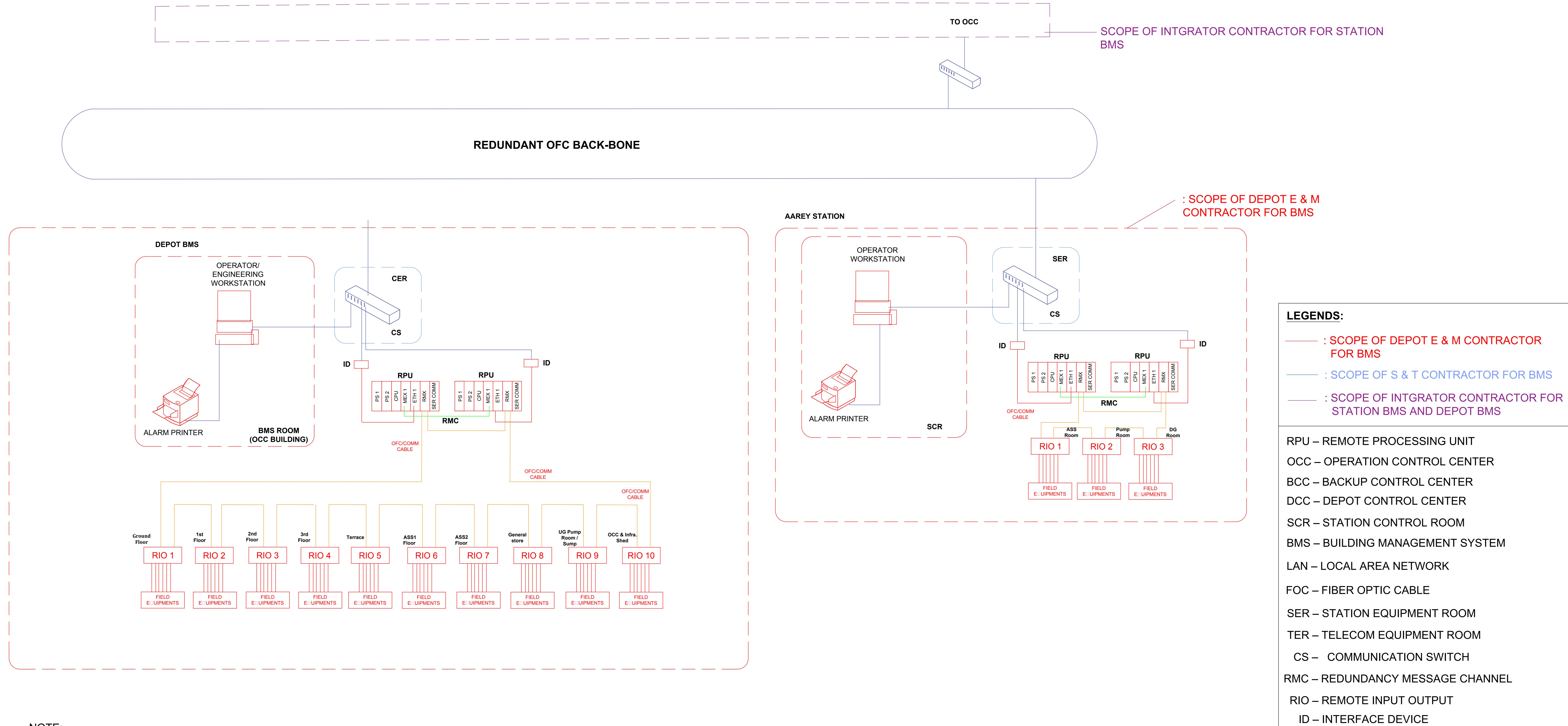


E&M
TENDER DRAWING

04-04-2018



## BMS SYSTEM ARCHITECTURE



NOTE:-

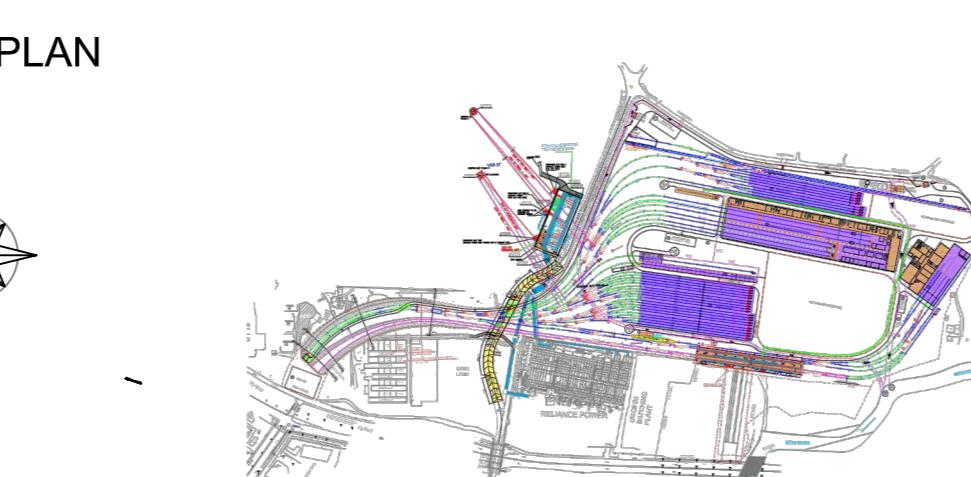
- Station Data will be available at the Redundant Server at OCC BMS Room
- RPU is comprise of Power Supply, Interface Modules, Control/Communication Module and Remote Input/Output Modules
- Field Equipments are the monitoring & control equipments from LV/MV Distribution System, Lighting System, Fire Alarm and Fire fighting system, Lift & Escalator, DG, UPS, Water supply and drainage system etc
- OFC/Comm cable for Remote IO network is in BMS Vendor's scope

			TENDER DRAWING					
REV.	DATE	PREP.	APPROVED	DESCRIPTION				
	R0	04-04-18		TENDER DRAWING				



GENERAL CONSULTANCY SERVICES  
FOR MUMBAI METRO RAIL PROJECT, LINE No. 3  
COLABA- BANDRA-SEEPZ

KEY PLAN



E&M  
TENDER DRAWING

DRAWN BY

NAME

SIGN

PROJECT

MUMBAI METRO LINE 3 COLABA-BANDRA-SEEPZ

DATE

APRIL -

TITLE

DRAWING TITLE

BMS GENERAL ARRANGEMENT DRAWING

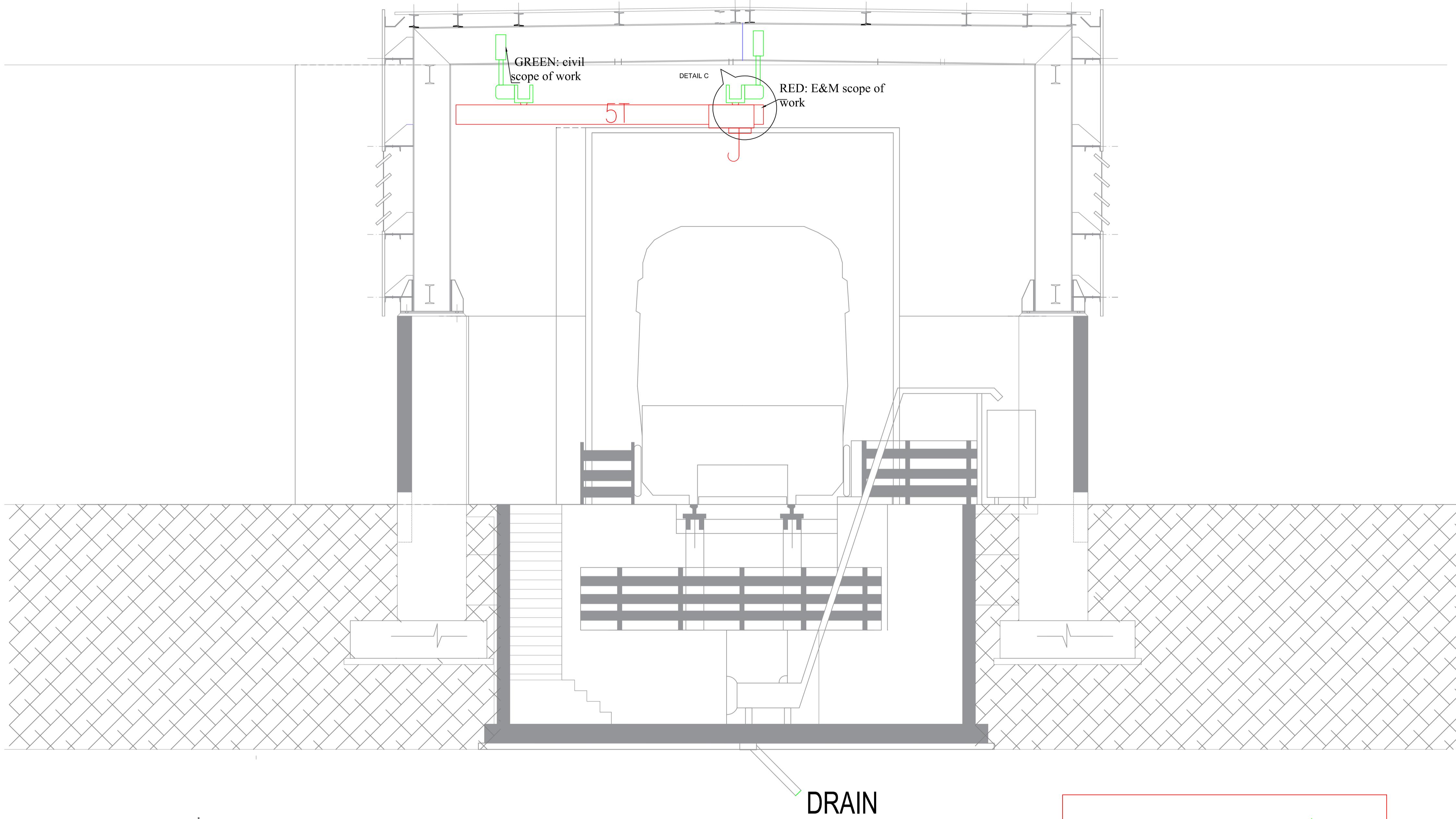
TYPICAL BMS ARCHITECTURAL  
DRAWING

SCALE

NTS

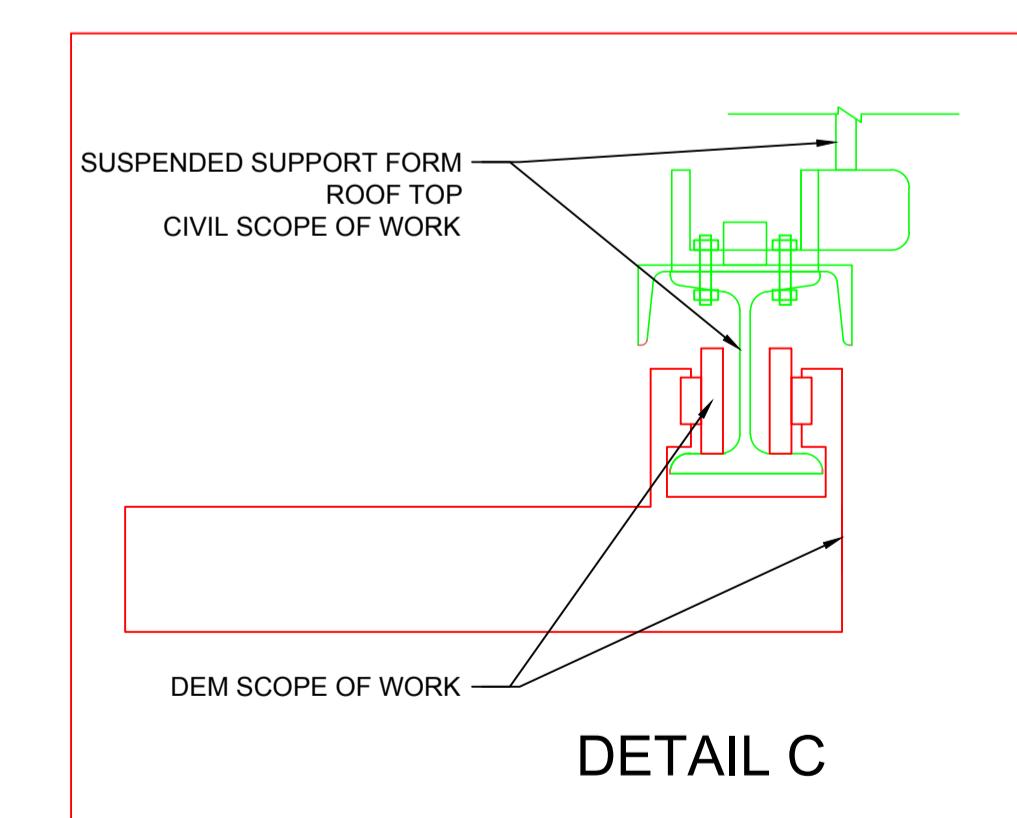


TYPICAL EOT SCOPE OF WORK DEM & CIVIL ( UNDERFLOOR WHEEL LATE (UFWL)



NOTES:

- 1) ALL EOT CRANE INSTALLATION TESTING & COMMISSIONING IS E&M SCOPE OF WORK.
- 2) ALL THE CIVIL STRUCTURE AND RELATED WORK IS CIVIL SCOPE OF WORK
- 3) FOR MORE DETAIL ABOUT SPAN LENGTH, WIDTHS, AND HEIGHT REFER CIVIL TENDER DRAWINGS OR COORDINATE WITH CIVIL

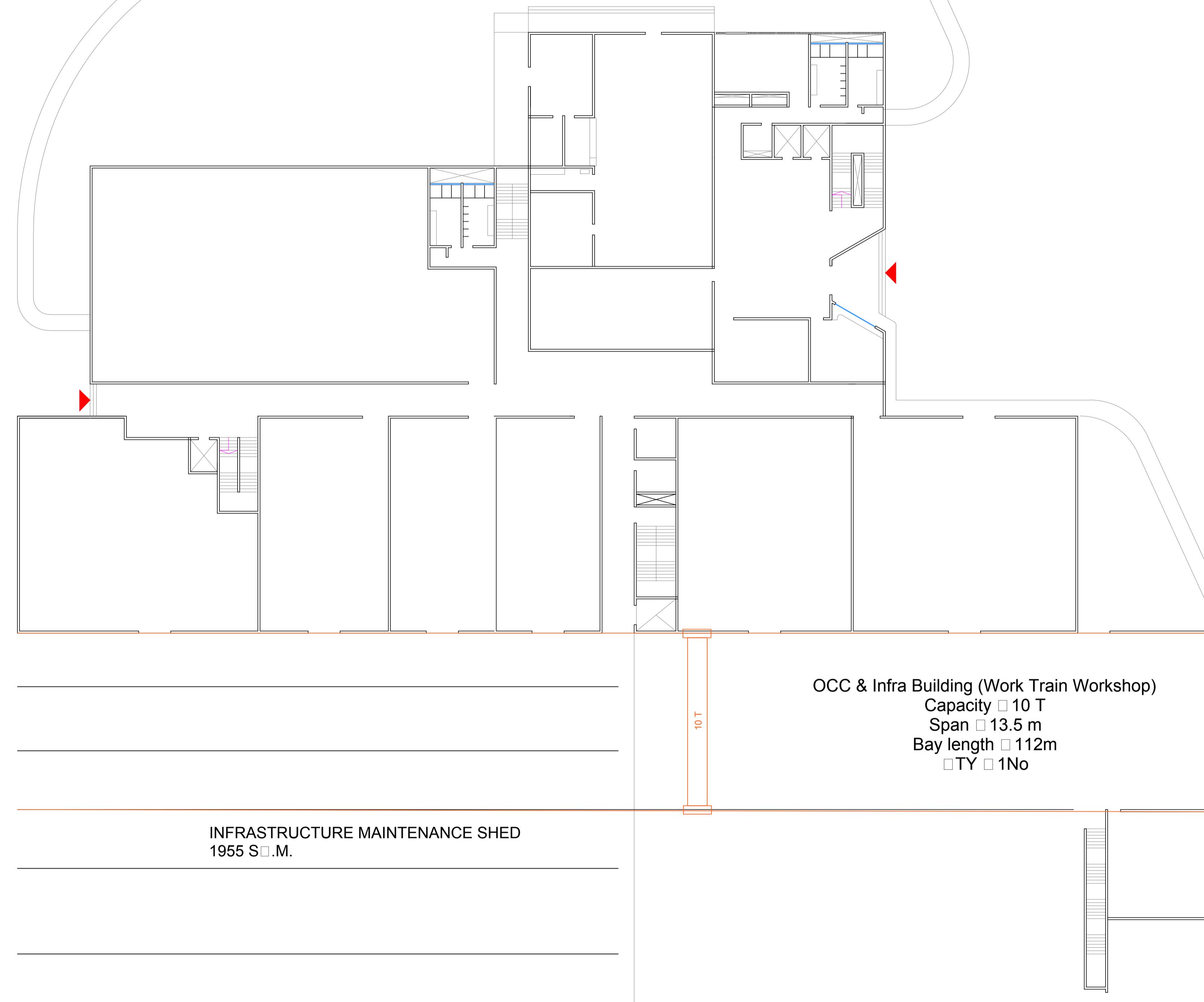


			DATE	
REV.	DATE	PREP.	APPROVED	DESCRIPTION
R0	04-04-18			TENDER DRAWING

 GENERAL CONSULTANCY SERVICES FOR MUMBAI METRO RAIL PROJECT, LINE No. 3 COLABA-BANDRA-SEEPZ	 KEY PLAN		<b>E&amp;M</b>  <b>TENDER DRAWING</b>	<table border="1"> <tr> <td></td><td>NAME</td><td>SIGN</td></tr> <tr> <td>DRAWN BY</td><td></td><td></td></tr> <tr> <td>DESIGN BY</td><td></td><td></td></tr> <tr> <td>CHECKED BY</td><td></td><td></td></tr> <tr> <td>APPROVED BY</td><td></td><td></td></tr> </table>		NAME	SIGN	DRAWN BY			DESIGN BY			CHECKED BY			APPROVED BY			PROJECT			DATE APRIL - 2018
	NAME	SIGN																					
DRAWN BY																							
DESIGN BY																							
CHECKED BY																							
APPROVED BY																							
TITLE	DRAWING TITLE	SCALE																					
					EOT CRANE GENERAL ARRANGEMENT DRAWING	TYPICAL EOT SCOPE OF WORK DEM & CIVIL (UNDER FLOOR WHEEL LATHE )	NTS																
					DRAWING NO	MM3-GC-DEM-EOT-8-D24-1501																	
F	E		D	04-04-2018	C	B	A																



**TYPICAL EOT SCOPE OF WORK DEM & CIVIL - OCC & INFRASTRUCTURE MAINTENANCE BUILDING  
(VEHICULAR & WORKTRAIN WORKSHOP)**



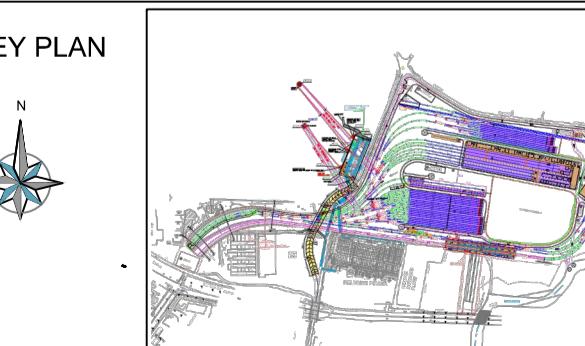
**NOTES:**

- 1) ALL EOT Crane INSTALLATION TESTING & COMMISSIONING IS E&M SCOPE OF WORK.
- 2) ALL THE CIVIL STRUCTURE AND RELATED WORK IS CIVIL SCOPE OF WORK
- 3) FOR MORE DETAIL ABOUT SPAN LENGTH, WIDTHS, AND HEIGHT REFER CIVIL TENDER DRAWINGS OR COORDINATE WITH CIVIL

REV.	DATE	PREP.	APPROVED	DESCRIPTION
R0	04-04-18			TENDER DRAWING



GENERAL CONSULTANCY SERVICES  
FOR MUMBAI METRO RAIL PROJECT, LINE No. 3  
COLABA-BANDRA-SEEPZ



E&M
TENDER DRAWING

DRAWN BY	NAME	SIGN	PROJECT			DATE
			MUMBAI METRO LINE 3 COLABA-BANDRA-SEEPZ			
DESIGN BY			TITLE			APRIL -
CHECKED BY			EOT CRANE GENERAL ARRANGEMENT DRAWING			2018
APPROVED BY			DRAWING TITLE			NTS
			TYPICAL EOT SCOPE OF WORK DEM & CIVIL			
			DRAWING NO	MM3-GC-DEM-EOT-8-D24-1502		



F

E

D

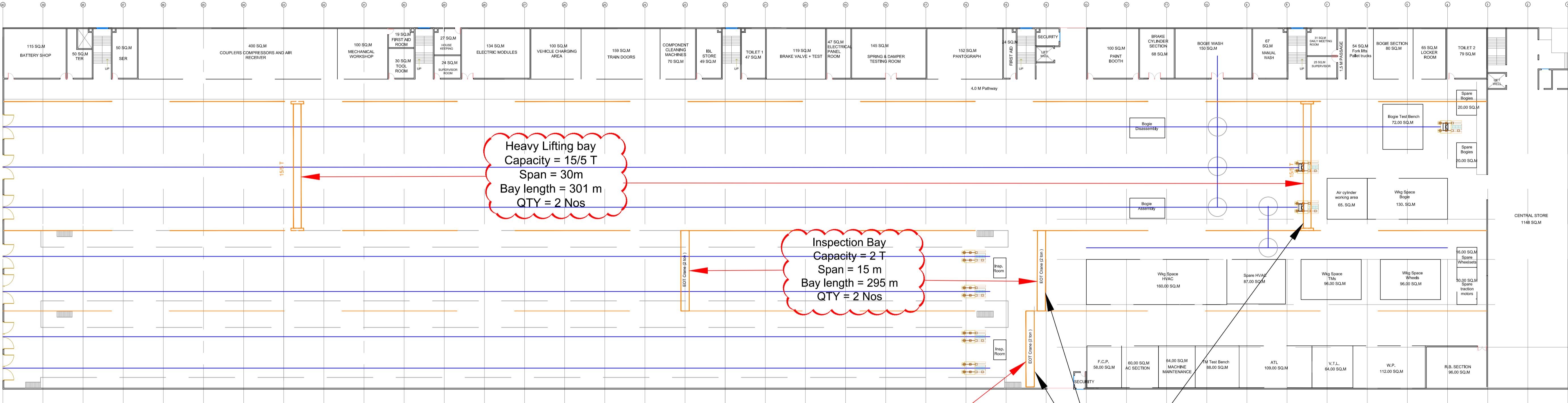
04-04-2018

C

B

A

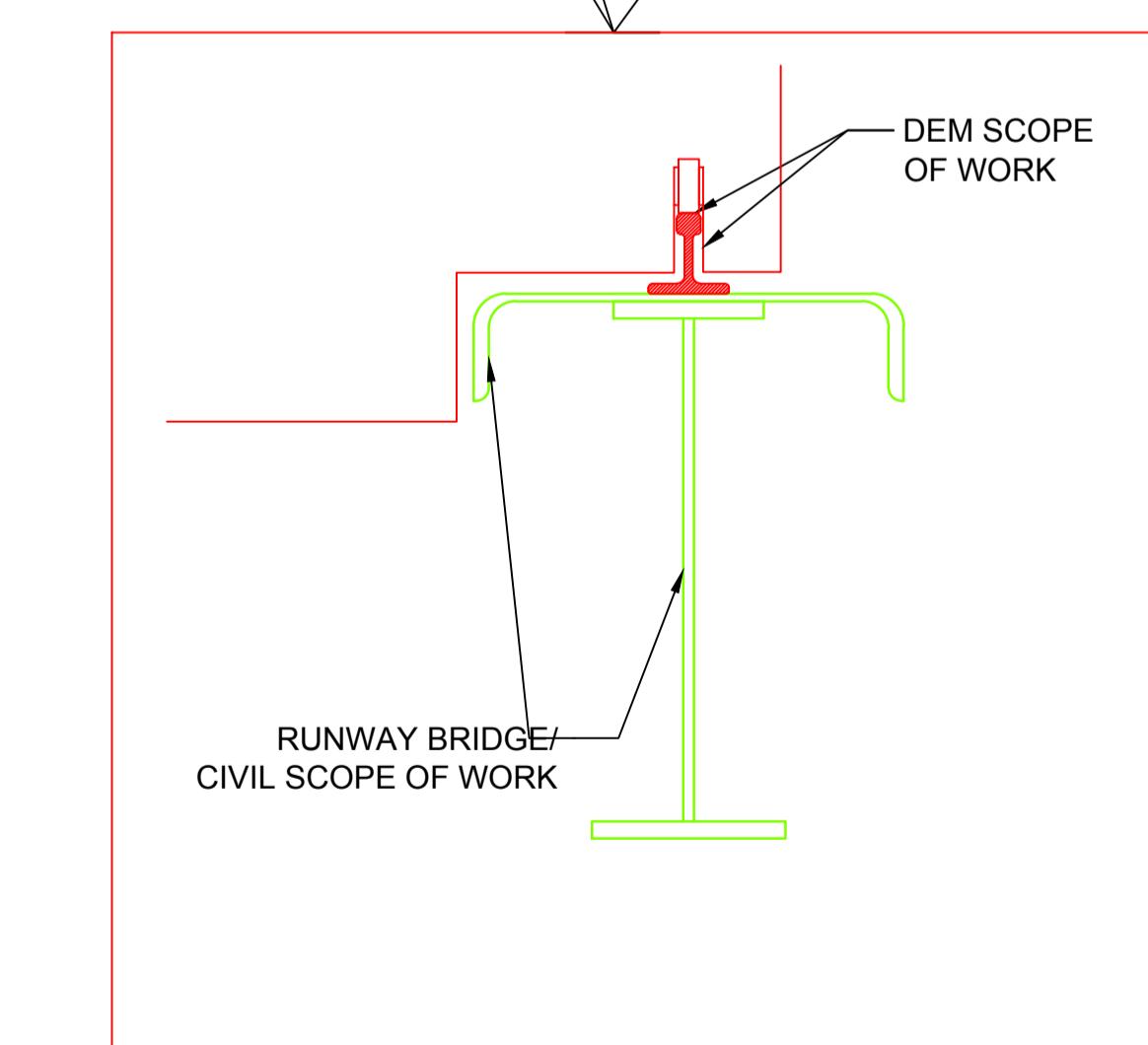
# TYPICAL EOT SCOPE OF WORK DEM & CIVIL ( MAINTENANCE & INSPECTION WORKSHOP AND CENTRAL STORE)



GROUND FLOOR PLAN

NOTES:

- 1) ALL EOT Crane INSTALLATION TESTING & COMMISSIONING IS E&M SCOPE OF WORK.
- 2) ALL THE CIVIL STRUCTURE AND RELATED WORK IS CIVIL SCOPE OF WORK
- 3) FOR MORE DETAIL ABOUT SPAN LENGTH, WIDTHS, AND HEIGHT REFER CIVIL TENDER DRAWINGS OR COORDINATE WITH CIVIL

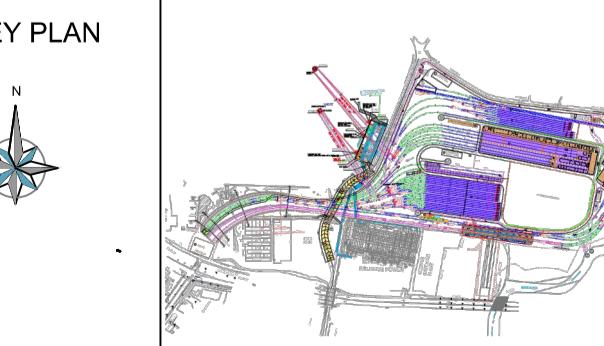


TENDER DRAWING			DATE APRIL - 2018	DESCRIPTION
REV.	DATE	PREP. APPROVED		
R0	04-04-18			



GENERAL CONSULTANCY SERVICES  
FOR MUMBAI METRO RAIL PROJECT, LINE No. 3  
COLABA-BANDRA-SEEPZ

KEY PLAN



E&M
TENDER DRAWING

NAME	SIGN
DRAWN BY	
DESIGN BY	
CHECKED BY	
APPROVED BY	

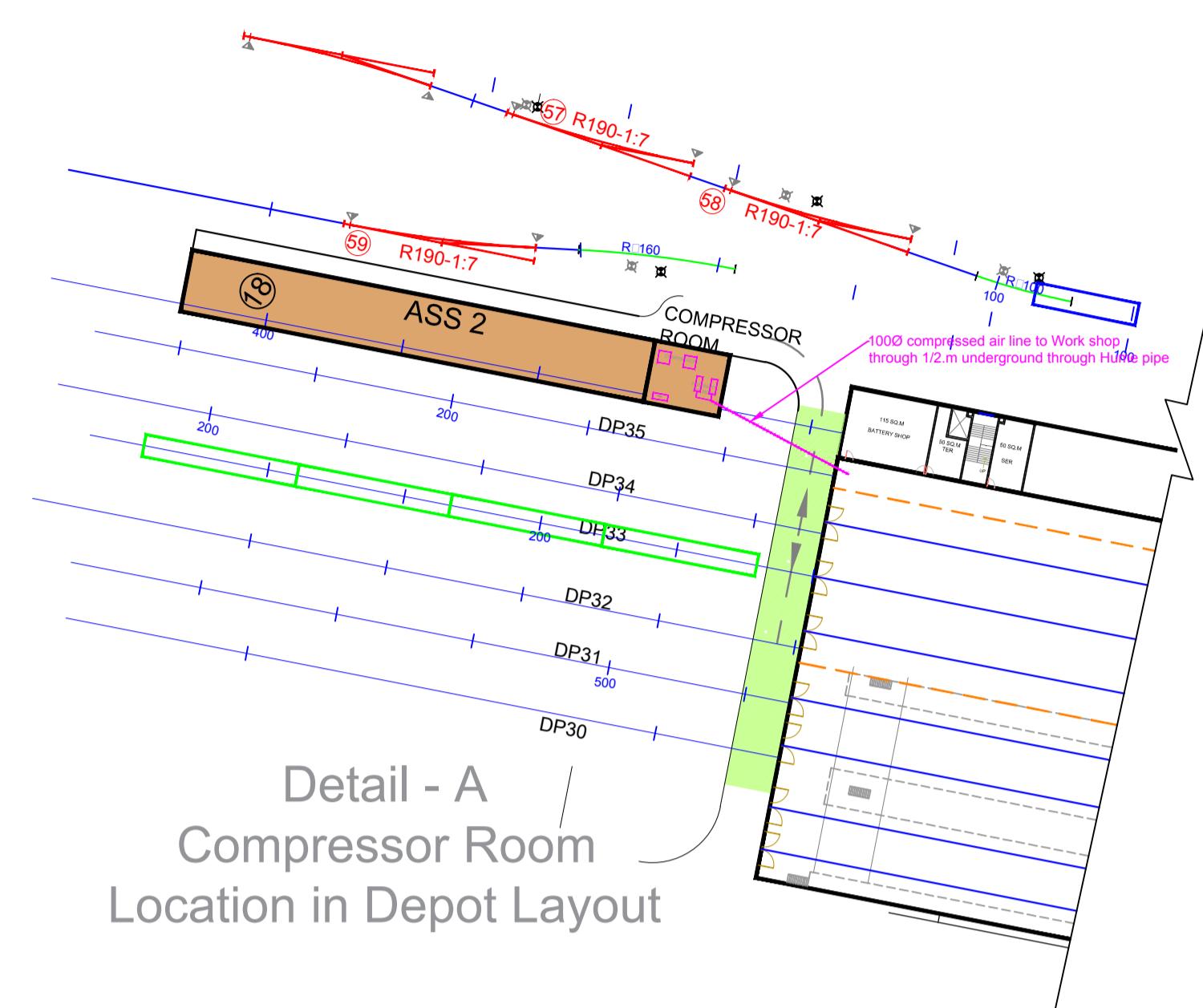
PROJECT		DRAWING TITLE	SCALE
MUMBAI METRO LINE 3 COLABA-BANDRA-SEEPZ			
TITLE	EOT CRANE GENERAL ARRANGEMENT DRAWING	TYPICAL EOT SCOPE OF WORK DEM & CIVIL	NTS
DRAWING NO	MM3-GC-DEM-EOT-8-D24-1503		



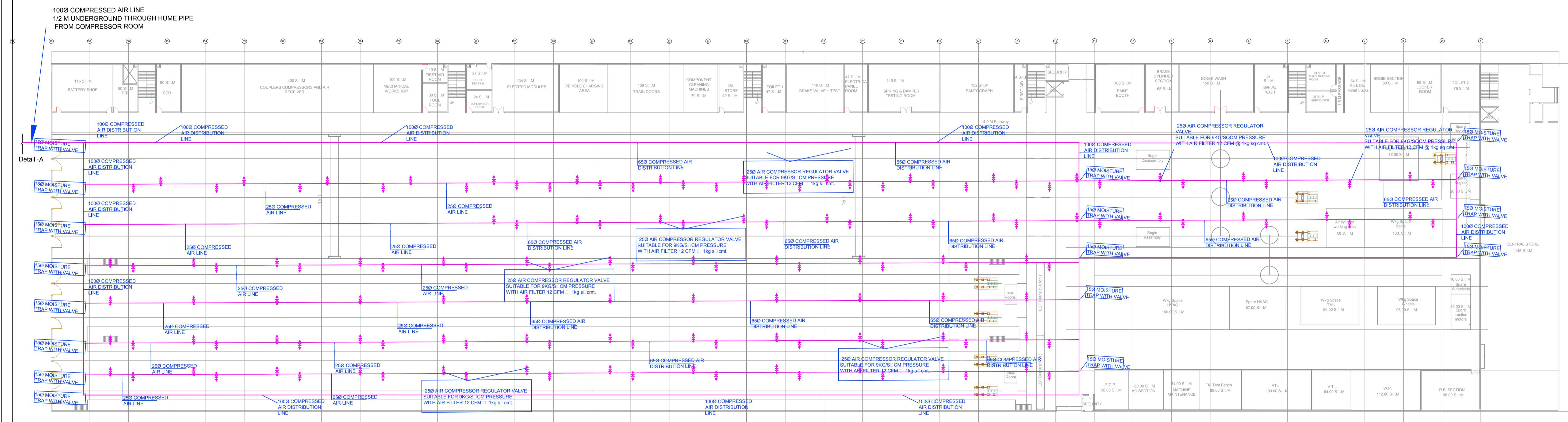
# COMPRESSED AIR LINE FOR MAINTENANCE -INSPECTION WORKSHOP & CENTRAL STORE

## LEGENDS

	COMPRESSOR
	RESERVOIR
	AIR COMPRESSOR REGULATOR VALVE
	COMPRESSOR AIR PIPING ( 250, 650, 1000 )
	MOISTURE TRAP WITH VALVE



Detail - A  
Compressor Room  
Location in Depot Layout



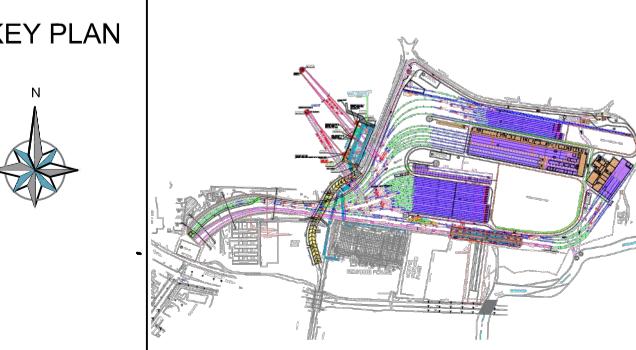
GROUND FLOOR PLAN

TENDER DRAWING			DATE	APRIL-2018
REV.	DATE	PREP. APPROVED		
				DESCRIPTION
R0	04-04-18			



GENERAL CONSULTANCY SERVICES  
FOR MUMBAI METRO RAIL PROJECT, LINE No. 3  
COLABA-BANDRA-SEEPZ

KEY PLAN

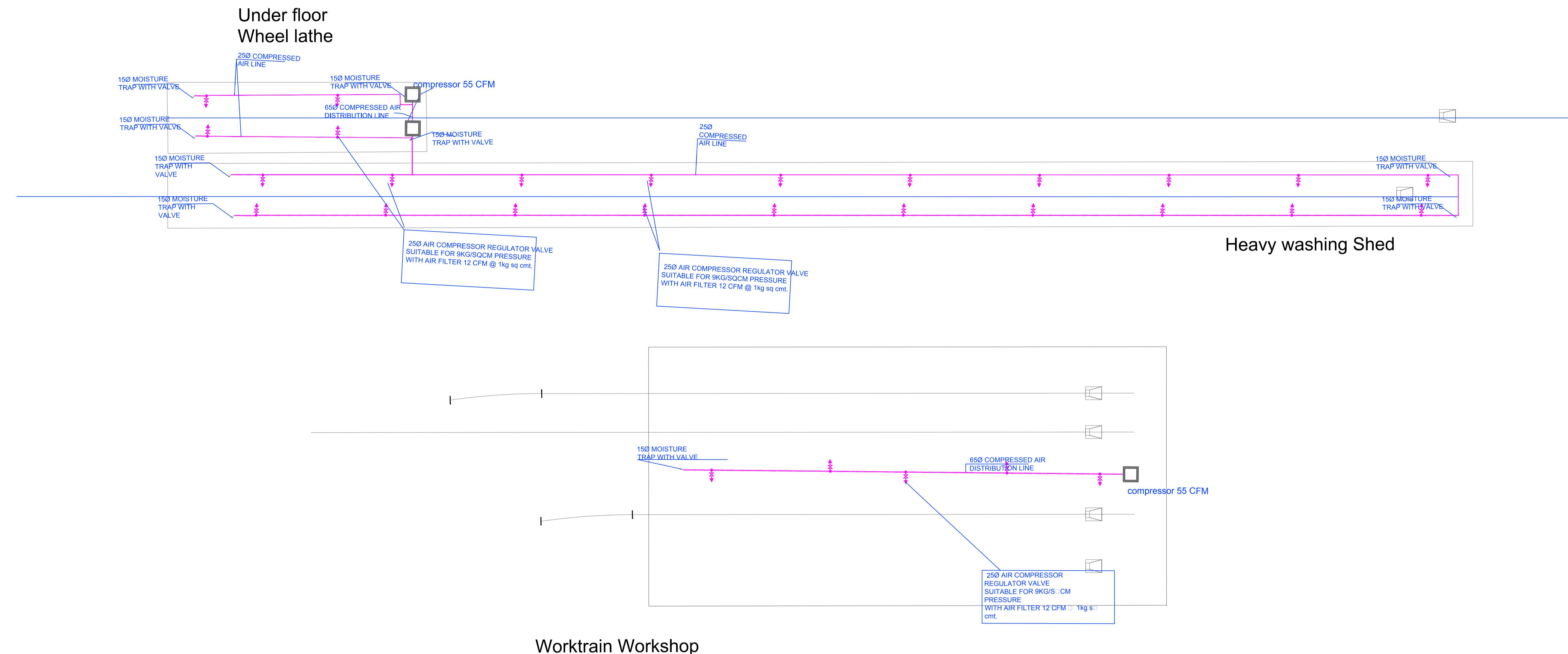


E&M
TENDER DRAWING

DRAWN BY	NAME	SIGN	PROJECT			DATE
			MUMBAI METRO LINE 3 COLABA-BANDRA-SEEPZ			
DESIGN BY			TITLE			APRIL-2018
CHECKED BY						
APPROVED BY			DRAWING TITLE			NTS
			COMPRESSED AIR GENERAL ARRANGEMENT DRAWING			
			COMPRESSED AIR LINE FOR MAINTENANCE & INSPECTION WORKSHOP & CENTRAL STORE			
			DRAWING NO	MM3-GC-DEM-CAS-8-D24-1601		



# COMPRESSED AIR LINE FOR UNDER FLOOR WHEEL LATHE, HEAVY WASHING SHED, WORKTRAIN WORK SHOP



## LEGENDS

	COMPRESSOR
	RESERVIOR
	AIR COMPRESSOR REGULATOR VALVE
	COMPRESSOR AIR PIPING ( 25Ø , 65Ø , 100Ø )
	MOISTURE TRAP WITH VALVE

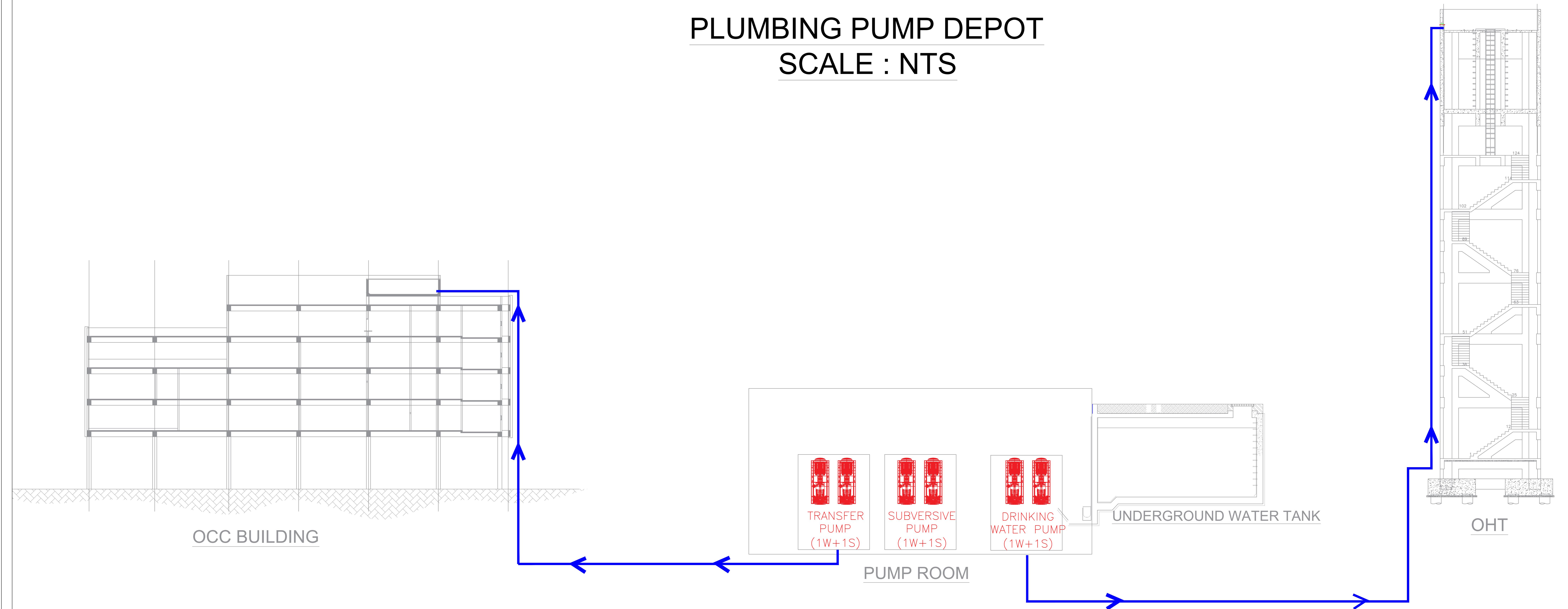
REV.	DATE	PREP.	APPROVED	DESCRIPTION
R0	04-04-18			TENDER DRAWING

F	E	KEY PLAN	N	D	E&M	C	B	A
	GENERAL CONSULTANCY SERVICES FOR MUMBAI METRO RAIL PROJECT, LINE No. 3 COLABA-BANDRA-SEEPZ				TENDER DRAWING			
					DRAWN BY	NAME	SIGN	PROJECT
								MUMBAI METRO LINE 3 COLABA-BANDRA-SEEPZ
					DESIGN BY			DATE APRIL - 2018
					CHECKED BY			
					APPROVED BY			TITLE COMPRESSED AIR GENERAL ARRANGEMENT DRAWING
								DRAWING TITLE COMPRESSED AIR LINE FOR UNDER FLOOR WHEEL LATHE, HEAVY WASHING SHED, WORKTRAIN WORK SHOP
								SCALE 1:1000
								DRAWING NO MM3-GC-DEM-CAS-8-D24-1602



# PLUMBING PUMP DEPOT

SCALE : NTS



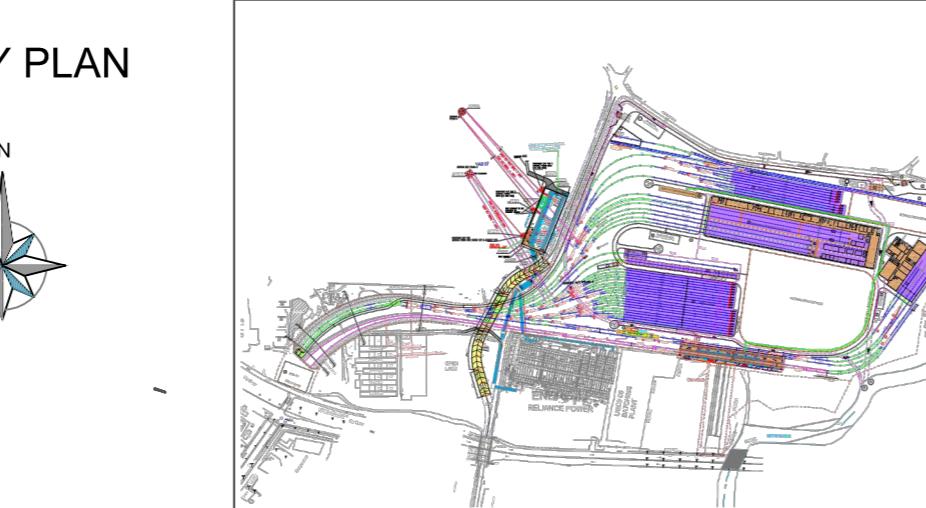
**NOTES:**

- 1) ALL PUMPS INSTALLATION  
TESTING & COMMISSIONING IS  
E&M SCOPE OF WORK.
- 2) ALL THE PLUMBING AND  
RELATED PIPING IS CIVIL  
SCOPE OF WORK
- 3) FOR MORE DETAIL ABOUT  
WATER PIPING LAYOUT REFER  
CIVIL TENDER DRAWINGS
- 4) IN RED E&M SCOPE OF WORK
- 5) IN BLUE CIVIL SCOPE OF WORK

R0	04-04-18		TENDER DRAWING	
REV.	DATE	PREP.	APPROVED	DESCRIPTION



GENERAL CONSULTANCY SERVICES  
FOR MUMBAI METRO RAIL PROJECT, LINE No. 3  
COLABA-BANDRA-SEEPZ



E&M  
TENDER DRAWING

DRAWN BY  
DESIGN BY  
CHECKED BY  
APPROVED BY

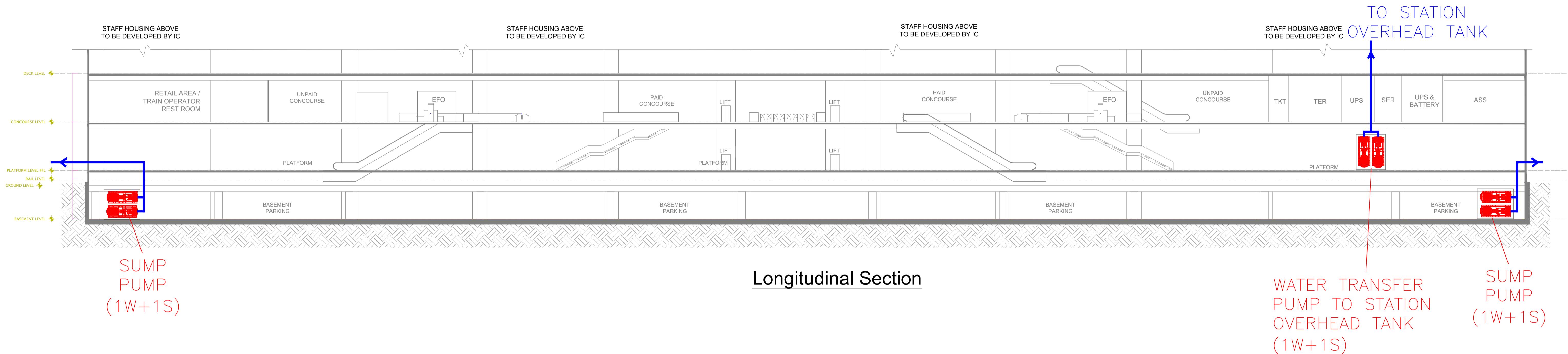
NAME  
SIGN

PROJECT  
MUMBAI METRO LINE 3 COLABA-BANDRA-SEEPZ  
TITLE  
PUMP GENERAL ARRANGEMENT  
DRAWING NO  
DRAWING TITLE  
PLUMBING PUMP - AAREY DEPOT  
DRAWING NO  
MM3-GC-DEM-PL-8-D24-1701  
DATE  
APRIL -  
2018  
SCALE  
NTS



# PLUMBING PUMP AAREY STATION

## SCALE : NTS



### NOTES:

- 1) ALL PUMPS INSTALLATION TESTING & COMMISSIONING IS E&M SCOPE OF WORK.
- 2) ALL THE PLUMBING AND RELATED PIPING IS CIVIL SCOPE OF WORK
- 3) FOR MORE DETAIL ABOUT UTILITY PIPING LAYOUT REFER CIVIL TENDER DRAWINGS
- 4) IN RED E&M SCOPE OF WORK
- 5) IN BLUE CIVIL SCOPE OF WORK

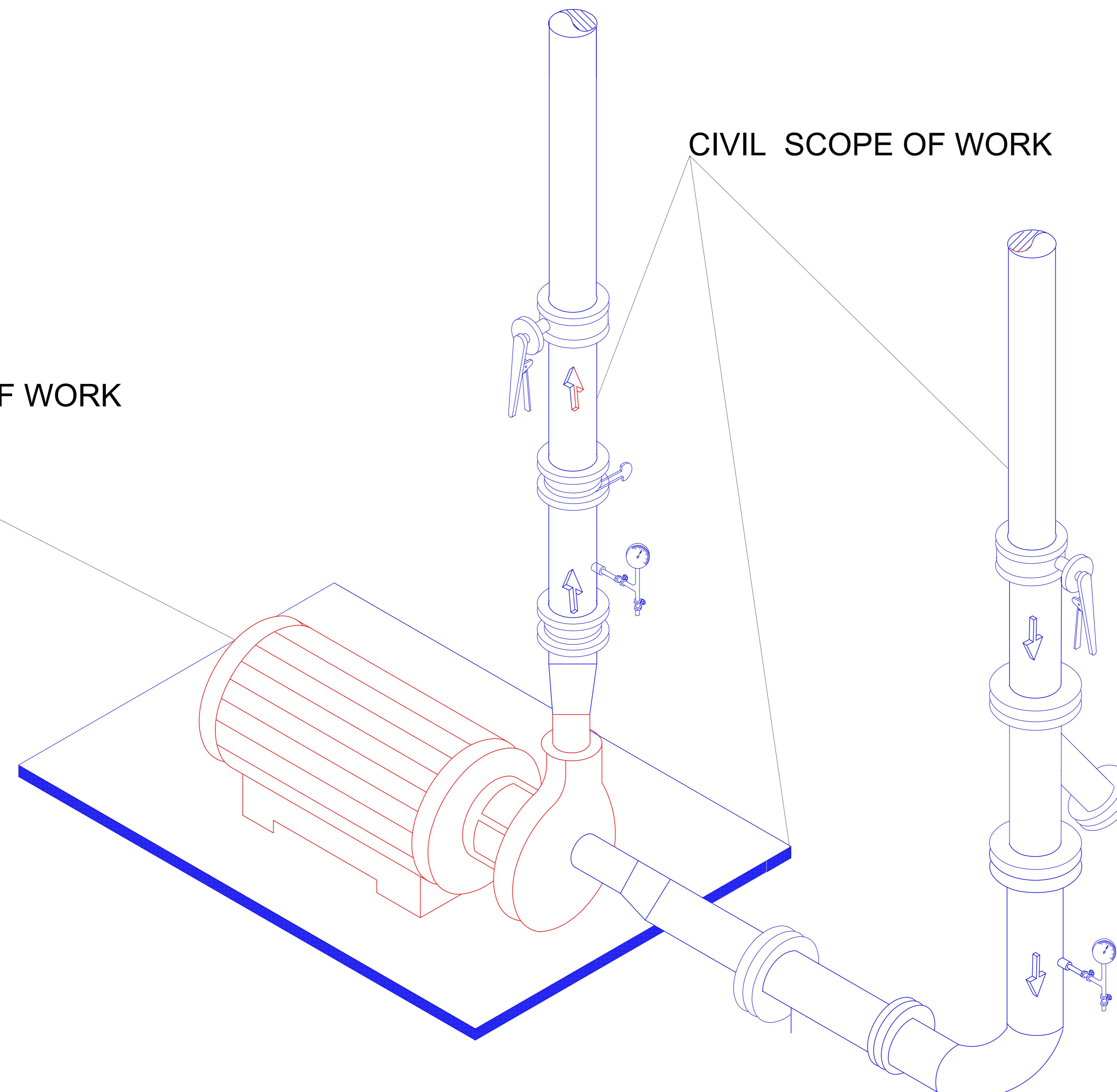
GENERAL CONSULTANCY SERVICES FOR MUMBAI METRO RAIL PROJECT, LINE No. 3 COLABA-BANDRA-SEEPZ			KEY PLAN	E&M TENDER DRAWING	DRAWN BY	NAME	SIGN	PROJECT MUMBAI METRO LINE 3 COLABA-BANDRA-SEEPZ			DATE APRIL - 2018	TENDER DRAWING REV. DATE PREP. APPROVED	DESCRIPTION	
					DESIGN BY			TITLE PUMP GENERAL ARRANGEMENT DRAWING			DRAWING TITLE PLUMBING PUMP AAREY STATION	NTS		
				CHECKED BY										
				APPROVED BY				DRAWING NO	MM3-GC-DEM-PL-8-D24-1702					
F	E	D			04-04-18	C		B						

# **SCOPE OF WORK E&M / CIVIL**

---

# E&M SCOPE OF WORK

# CIVIL SCOPE OF WORK



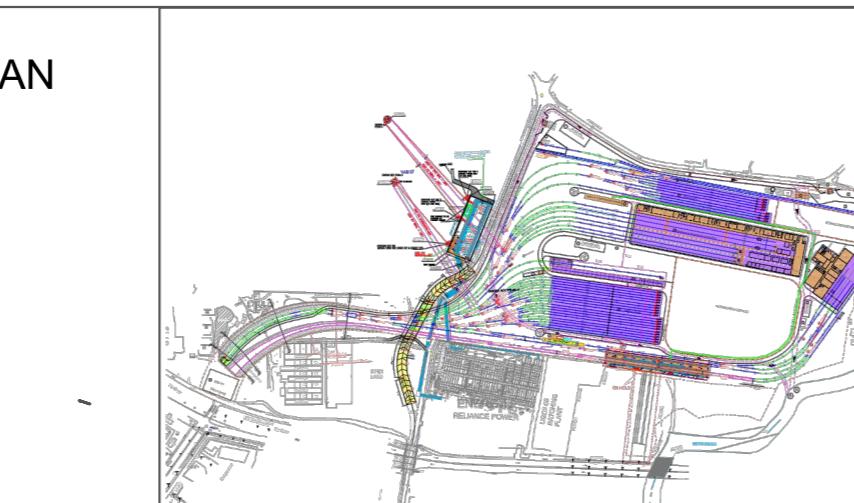
## NOTES:

- 1) ALL PUMPS INSTALLATION  
TESTING & COMMISSIONING IS  
E&M SCOPE OF WORK.
  - 2) ALL THE PLUMBING AND  
RELATED PIPING IS CIVIL  
SCOPE OF WORK
  - 3) FOR MORE DETAIL ABOUT  
UTILITY PIPING LAYOUT REFER  
CIVIL TENDER DRAWINGS
  - 4) IN RED E&M SCOPE OF WORK
  - 5) IN BLUE CIVIL SCOPE OF WORK

R0	04-04-18			TENDER DRAWING
REV.	DATE	PREP.	APPROVED	DESCRIPTION
	DATE APRIL - 2018			
AND CIVIL K	SCALE NTS			 The logo for Maple Mumbai Metro Line-3 General Consultant. It features a stylized 'M' composed of green, orange, and blue segments, enclosed in a circular track outline. Below the 'M' is a small black train icon. To the right of the graphic, the word 'maple' is written in a large, lowercase, blue sans-serif font. Underneath 'maple', the text 'MUMBAI METRO LINE - 3' and 'GENERAL CONSULTANT' is written in a smaller, black, sans-serif font. maple MUMBAI METRO LINE - 3 GENERAL CONSULTANT



# **GENERAL CONSULTANCY SERVICES FOR MUMBAI METRO RAIL PROJECT, LINE No. 3 COLABA-BANDRA-SEEPZ**




# E&M

	NAME	SIGN	PROJECT MUMBAI METRO LINE 3 COLABA-BANDRA-SEEPZ	DATE APRIL - 2018
DRAWN BY				
DESIGN BY				
CHECKED BY				
APPROVED BY				
			TITLE PUMP GENERAL ARRANGEMENT DRAWING	DRAWING TITLE SCOPE OF WORK E&M AND CIVIL PLUMBING WORK
				SCALE NTS
			DRAWING NO MM3-GC-DEM-PI -8-D24-1703	

## LEGENDS

SRN	Facilities of Aarey Depot	Footprint Area (SQM)
1	OCC & Infrastructure Building	8107.8
2	Delivery Track	1059.7
3	Depot Auxiliary Substation 1 & Compressor Room	712
4	Test Track	585.64 mtr
5	Vehicular Parking	2847
6	Access Control Building 1	72
7	Stabling Zone 1	8925
8	Stabling Zone 2	19455
9	Access Control Building 2	72
10	Maintenance Workshop & Central Store	22431
11	Under Floor Wheel Lathe Shed	613
12	Heavy Washing Shed	2031
13	Depot Traction switching station SSP-05	230
14	Auto Wash Plant	605
15	Aarey Station & ASS 27	4555
16	Outdoor Storage	360
17	Store Building	230
18	Under Ground Tank	442
19	Over Head Tank	57.76
20	Underpass	5364
21	Treatment Plant	120
22	Sarap Yard (Only surface not a building)	1080



General Consultants : **maple**  
Notification :  A  B  C

As noted in the DSR No. \_\_\_\_\_ dated \_\_\_\_\_

A : Objection. A complete resubmission is required.  
B : No objection with comments.  
C : Notice of No objection.

Assessor Discipline Leader Engineer

-- -- --

R1 16.03.2018 SP MODIFIED AS PER DSR CODE GCC-PAD-DEP-D01-180048-A0

Rev. Date Drawn

Description

Designed Checked Approved

(A0 PAPER)

Date : 13.12.2017

FOR INFORMATION ONLY

IC / Detailed Design Consultant :

**PADCO** **AECOM** **THE Louis Berger Group Inc. USA**

PADCO Co. Ltd  
Shin-Osakem Banq  
6-17-19 Shinbashi,  
Minato-ku, Tokyo 105-0044 Japan  
Tel +81-3-3733-0855  
Fax +81-3-3733-0856

DLF Cyber City, DLF Phase -II,  
Gurgaon - 122 002, Haryana – India  
Tel +91 124 4830373  
Fax +91 124 4830373

120 23rd St NW  
Washington, DC 20007,  
A-615/16, Kohinoor City,  
Kurla (W), Mumbai 400090  
India

Engineers • Planners • Scientists • Economists

Project Title : Mumbai Metro Line - 3

Detailed Design Consultancy and Construction for  
Depot of Underground MML - 3

Designed : AK Checked : KT Approved : KT

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

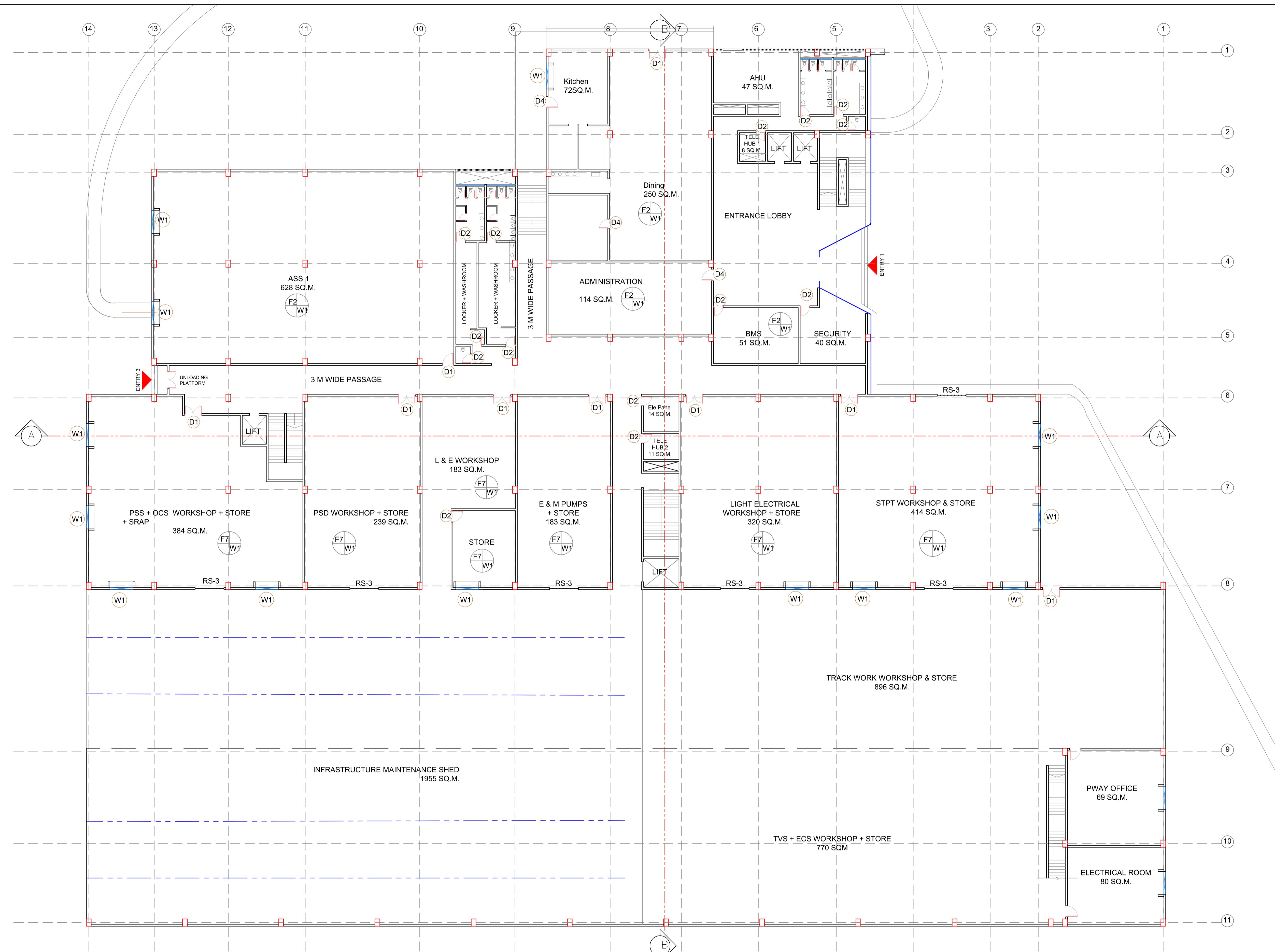
Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 13.12.2017

Scale : 1:1000 Drawn : SP Date : 1



REFERENCE DRAWINGS :-

X-REF FILES :-

NOTES :-

**FOR INFORMATION ONLY**

General Consultants :



MUMBAI METRO LINE-3  
GENERAL CONSULTANT

Notification :

A    B    C

As noted in the DSR No. \_\_\_\_\_  
dated \_\_\_\_\_

A : Objection, A complete resubmission is required.  
B : No Objection with comments.  
C : Notice of No objection.

Assessor Discipline Leader Engineer

3 2 1 DD.MM.YYYY --

-- -- --

Rev. Date Drawn

Description

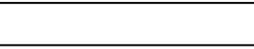
Designed Checked Approved

Scale : 1:200 (A1)

Drawn : SP

Date : 21.12.2107

IC / Detailed Design Consultant :



PADECO Co., Ltd

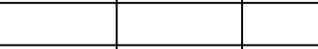
Shin-Ochanomizu

6-17-19 Shinjibashi,

Tokyo 105-0044 Japan

Tel: +81-3-3733-0855

Fax: +81-3-3733-0958



AECOM

BIF, Infinity Tower C,

DLF Cyber City, DLF Phase -II,

Gurgaon - 122 002, Haryana - India

Fax: +91 124 4830373

E-mail: [info.aecom@dlf.com](mailto:info.aecom@dlf.com)

1290 23rd St. NW

Washington, DC 20037,

Kurti (W), Mumbai 400088

India

A-1616/16, Kohinoor City

USA

Page 34

THE Louis Berger Group Inc. USA

Engineers • Planners • Scientists • Economists

**MUMBAI METRO RAIL CORPORATION LTD.**

Namitri Building, Plot No. R-13, 'E'- Block,  
Bandra Kurla Complex, Bandra (East), Mumbai 400051.

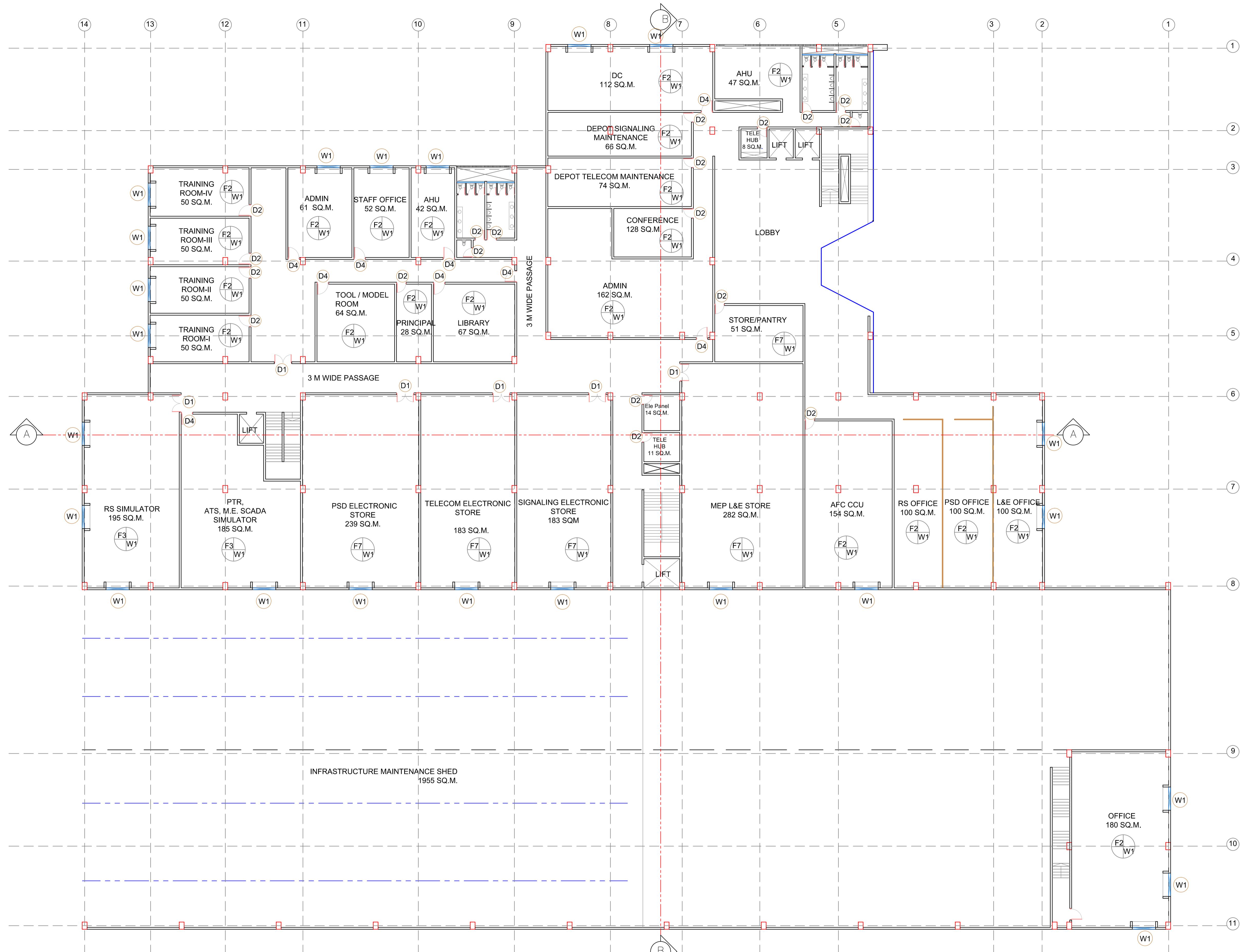
Drawing Title :

OCC and Infrastructure Building:  
Ground Floor Plan

Drawing No. : MML3-CBS/MMRC/IC/DEP/AR/101 Rev. 0 DWG Status P

P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing

CAD File Name : MML3-CBS/MMRC/IC/DEP/AR/101.dwg



REFERENCE DRAWINGS :-

X-REF FILES :-

NOTES :-

FOR INFORMATION ONLY

General Consultants :  
**maple**  
MUMBAI METRO LINE-3  
GENERAL CONSULTANT

Notification :

A     B     C

As noted in the DSR No. \_\_\_\_\_  
dated \_\_\_\_\_

A : Objection, A complete resubmission is required.  
B : No Objection with comments.  
C : Notice of No objection.

Assessor Discipline Leader Engineer  
3 2 1 DD.MM.YYYY --

-- -- -- Rev. Date Drawn

Description

Designed Checked Approved

Scale :

1:200 (A1)

Drawn : SP

Date :

21.12.2107

IC / Detailed Design Consultant :

**PADCO**

PADCO Co., Ltd  
Shin-Ochanomizu  
6-17-19 Shinbashi,  
Tokyo 105-0044 Japan  
Tel: +81-3-3733-0855  
Fax: +81-3-3733-0958

**AECOM**

BIF, Infinity Tower C,  
DLF Cyber City, DLF Phase -II,  
Gurgaon - 122 002, Haryana – India

Tel: +91 124 4830373  
Fax: +91 124 4830373

**THE Louis Berger Group Inc. USA**

Engineers • Planners • Scientists • Economists

A-151516, Kohinoor City  
1290 23rd St. NW  
Washington, DC 20037, USA

Kurla (W), Mumbai 400088  
India

Page 35

**MUMBAI METRO RAIL CORPORATION LTD.**

Namitri Building, Plot No. R-13, 'E'- Block,  
Bandra Kurla Complex, Bandra (East), Mumbai 400051.

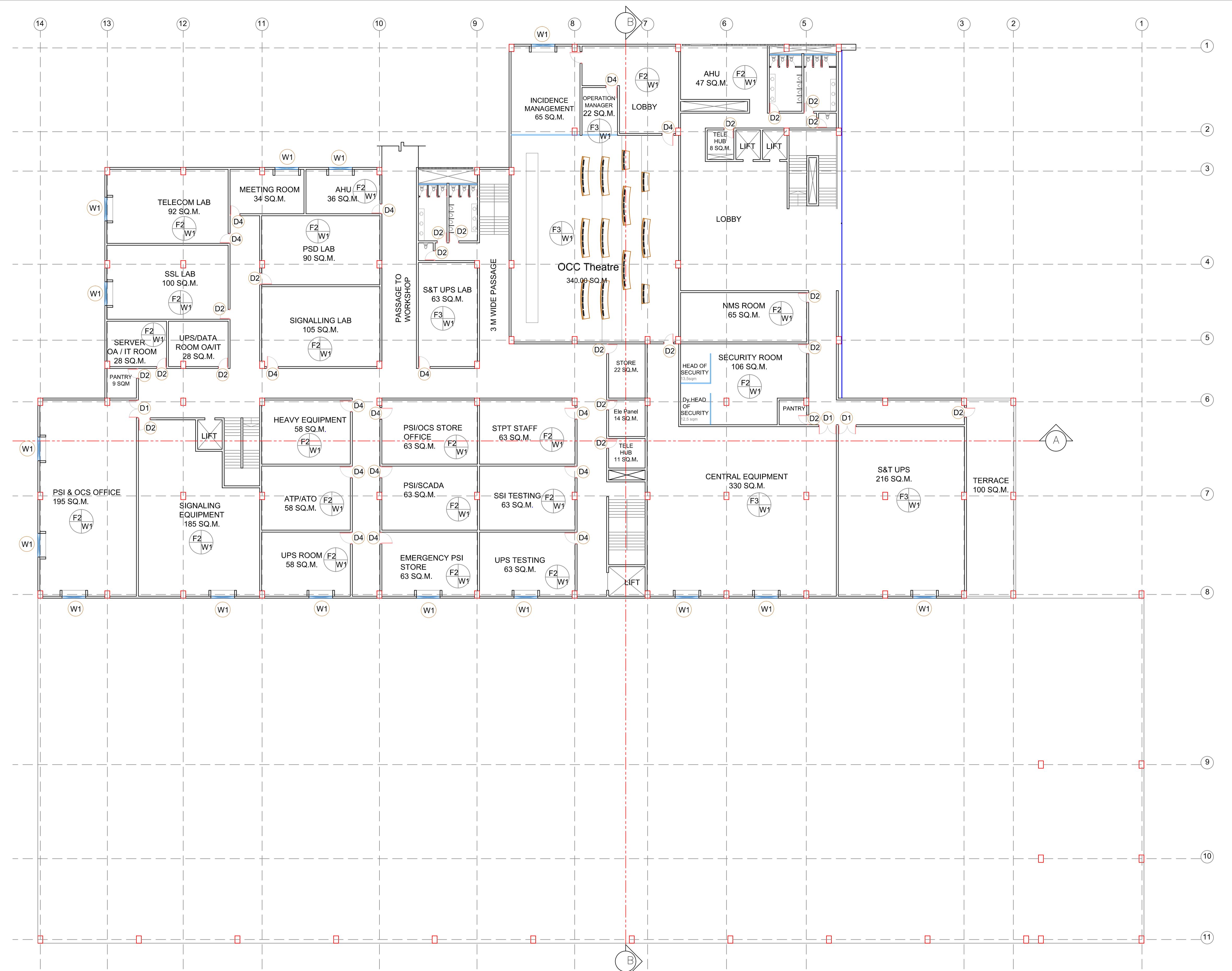
Drawing Title :

OCC and Infrastructure Building:  
First Floor Plan

Drawing No. : MML3-CBS/MMRC/IC/DEP/AR/102 Rev. 0 DWG Status P

P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing

CAD File Name : MML3-CBS/MMRC/IC/DEP/AR/102.dwg



REFERENCE DRAWINGS :-

X-REF FILES :-

NOTES :-

FOR INFORMATION ONLY

General Consultants :  
**maple**  
 MUMBAI METRO LINE-3  
 GENERAL CONSULTANT

Notification :  
 A    B    C

As noted in the DSR No. \_\_\_\_\_  
 dated \_\_\_\_\_

A : Objection, A complete resubmission is required.  
 B : No Objection with comments.  
 C : Notice of No objection.

Assessor Discipline Leader Engineer  
 3 2 1 DD.MM.YYYY --

-- -- -- Rev. Date Drawn

Description

Designed

Checked

Approved

Scale :

1:200 (A1)

Drawn :

SP

Date :

21.12.2107

IC / Detailed Design Consultant :

**PADECO**

PADECO Co., Ltd.  
 Shin-Ochanomizu Bldg.  
 6-17-19 Shinjibashi,  
 Tokyo 105-0044 Japan  
 Tel: +81-3-3733-0855  
 Fax: +81-3-3733-0958

**AECOM**

B7, Infinity Tower C,  
 DLF Cyber City, DLF Phase -II,  
 Gurgaon - 122 002, Haryana – India

**THE Louis Berger Group Inc. USA**

Engineers • Planners • Scientists • Economists  
 1290 23rd St. NW  
 Washington, DC 20037, USA  
 Tel: +1 202 349 1000  
 Fax: +1 202 349 1000

**MMRC**

1290 23rd St. NW  
 Washington, DC 20037, USA  
 Tel: +1 202 349 1000  
 Fax: +1 202 349 1000

**THE Louis Berger Group Inc. USA**

Engineers • Planners • Scientists • Economists  
 1290 23rd St. NW  
 Washington, DC 20037, USA  
 Tel: +1 202 349 1000  
 Fax: +1 202 349 1000

MUMBAI METRO RAIL CORPORATION LTD.

Namitri Building, Plot No. R-13, 'E'- Block,  
 Bandra Kurla Complex, Bandra (East), Mumbai 400051.

Drawing Title :

OCC and Infrastructure Building:  
 Second Floor Plan

Drawing No. : MML3-CBS/MMRC/IC/DEP/AR/103

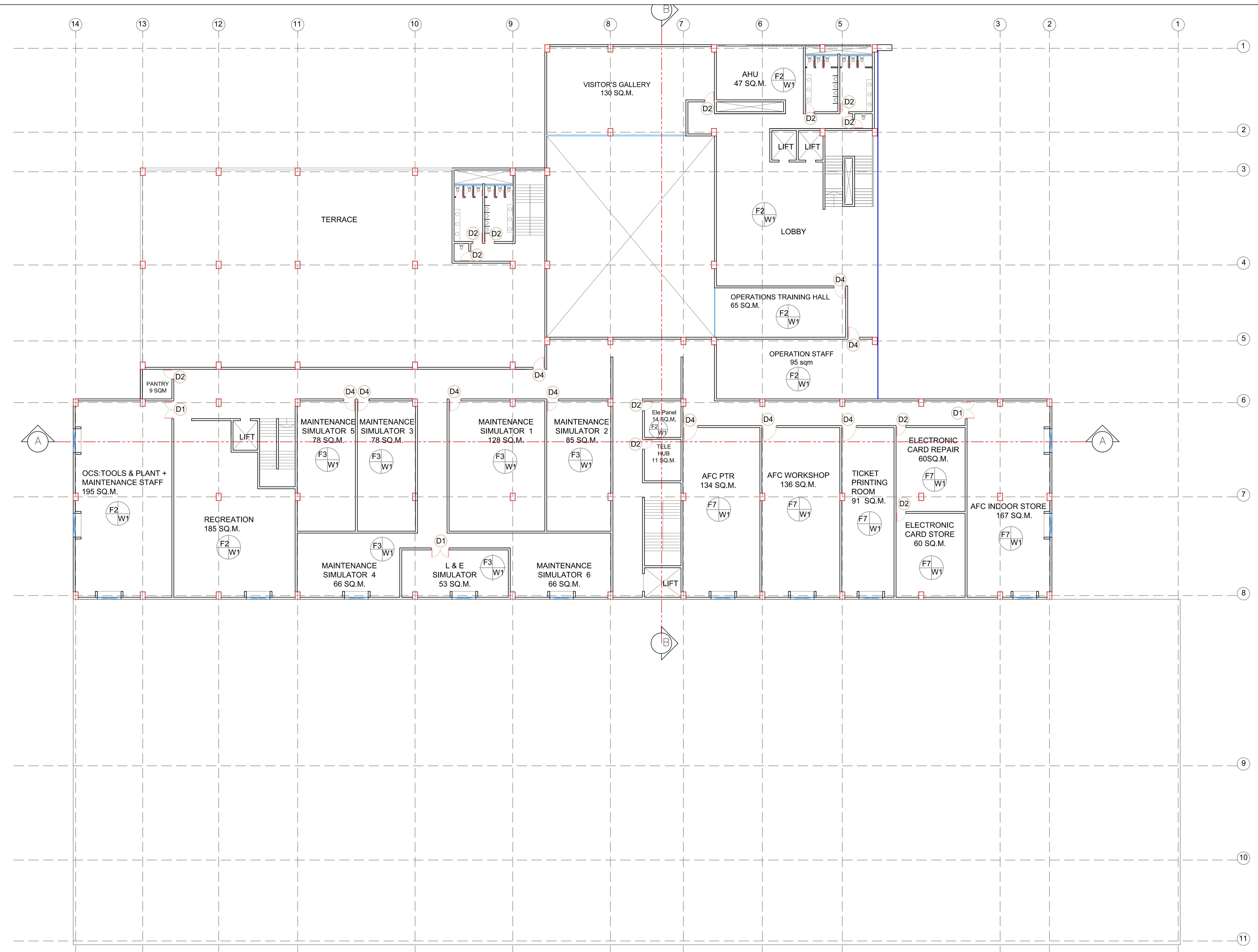
Rev. 0

DWG Status P

P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing

CAD File Name : MML3-CBS/MMRC/IC/DEP/AR/103.dwg

Page 36



REFERENCE DRAWINGS :-

X-REF FILES :-

NOTES :-

**FOR INFORMATION ONLY**

General Consultants :  
**maple**  
MUMBAI METRO LINE-3  
GENERAL CONSULTANT

Notification :  
 A    B    C

As noted in the DSR No. \_\_\_\_\_  
dated \_\_\_\_\_

A : Objection, A complete resubmission is required.  
B : No Objection with comments.  
C : Notice of No objection.

Assessor   Discipline Leader   Engineer  
3   2   1

DD.MM.YYYY   --   --

Rev. Date Drawn

Description

Designed Checked Approved

IC / Detailed Design Consultant :

**PADECO**

Shiv-Chanman Bhg.  
6-17-19 Shishvati,  
Gurgaon - 122 002, Haryana - India  
Tel: +91-124-4830373  
Fax: +91-124-4830373

**AECOM**

Bf. Infinity Tower C,  
DLF Cyber City, DLF Phase-II,  
Gurgaon - 122 002, Haryana - India  
A-615/16, Kohinoor City  
1290 23rd St. NW  
Washington, DC 20037  
Kurla (W), Mumbai 400088  
India

**THE Louis Berger Group Inc. USA**  
Engineers • Planners • Scientists • Economists  
1290 23rd St. NW  
Washington, DC 20037  
Kurla (W), Mumbai 400088  
India

Project Title : Mumbai Metro Line - 3  
Detailed Design Consultancy and Construction for  
Dept of Underground MML - 3

Designed : AK   Checked : KT   Approved : SC

Scale : 1:200 (A1)   Drawn : SP   Date : 21.12.2010

**MUMBAI METRO RAIL CORPORATION LTD.**  
Namitri Building, Plot No. R-13, 'E'- Block,  
Bandra Kurla Complex, Bandra (East), Mumbai 400051.

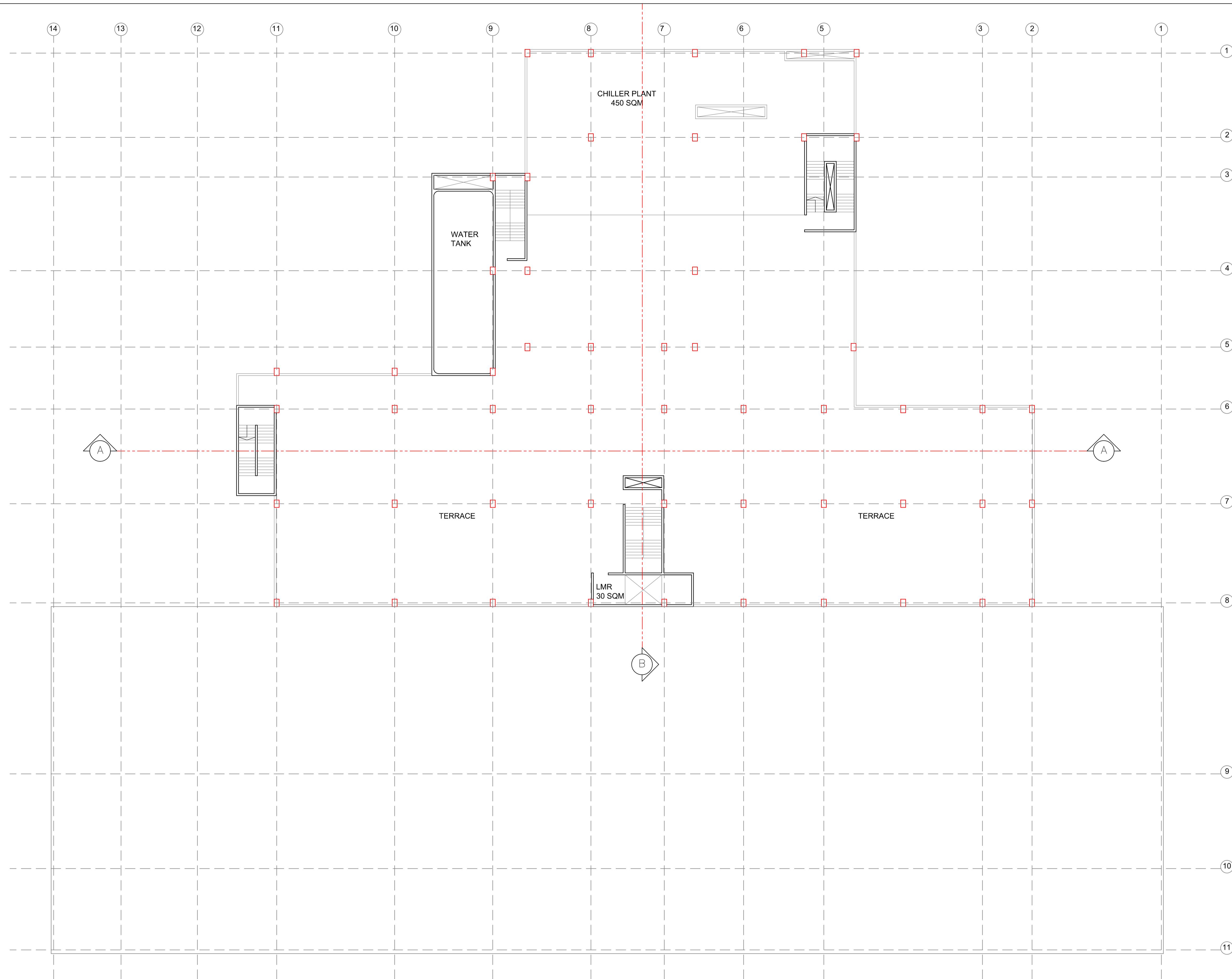
Drawing Title :

OCC and Infrastructure Building:  
Third Floor Plan

Drawing No. : MML3-CBS/MMRC/IC/DEP/AR/104   Rev. 0   DWG Status P

P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing

CAD File Name : MML3-CBS/MMRC/IC/DEP/AR/104.dwg



REFERENCE DRAWINGS :-

X-REF FILES :-

NOTES :-

**FOR INFORMATION ONLY**

General Consultants :



MUMBAI METRO LINE - 3  
GENERAL CONSULTANT

Notification :

A    B    C

As noted in the DSR No. \_\_\_\_\_  
dated \_\_\_\_\_

A : Objection, A complete resubmission is required.  
B : No Objection with comments.  
C : Notice of No objection.

Assessor   Discipline Leader   Engineer  
3   2   1

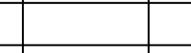
DD.MM.YYYY   --

1   Rev. Date Drawn

--   Description

--   Designed   Checked   Approved

IC / Detailed Design Consultant :



PADECO

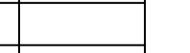
Shin-Osakamon Bldg,

6-17-19 Shinjuku,

Tokyo 105-0044 Japan

Tel: +81-3-3733-0855

Fax: +81-3-3733-0958



AECOM

BIF, Infinity Tower C,

DLF Cyber City, DLF Phase - II,

Gurgaon - 122 002, Haryana - India

Fax: +91 124 4830373

E-mail: info@aecom.com



THE LOUIS BERGER GROUP INC. USA

1290 23rd St. NW

Washington, DC 20037,

Kurti (W), Mumbai 400088

India

Phone: +1 202 349 1000

Fax: +1 202 349 1001

E-mail: info@louisberger.com

www.louisberger.com

www.louisberger.com/usa

www.louisberger.com/india

www.louisberger.com/kurti

Project Title :

Mumbai Metro Line - 3

Detailed Design Consultancy and Construction for

Dept of Underground MML - 3

Designated : AK

Checked : KT

Approved : SC

Drawn : SP

Date :

21.12.2017

Scale :

1:200 (A1)

Rev. :

0

DWG Status

P

P - Preliminary, D - Definitive, C - Construction Reference, W - Working Drawing

CAD File Name : MML3-CBS/MMRC/IC/DEP/AR/105.dwg

Page 38

**MUMBAI METRO RAIL CORPORATION LTD.**

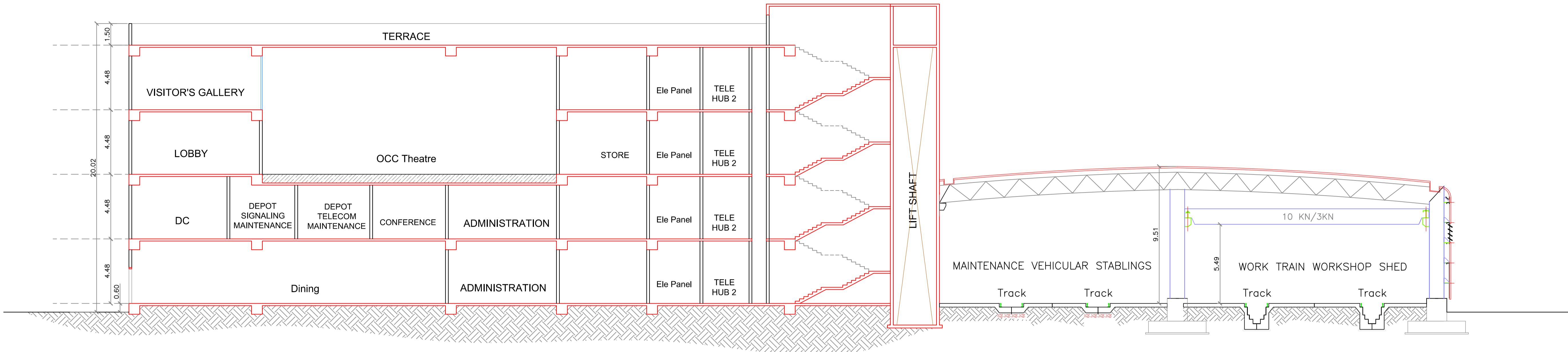
Namitri Building, Plot No. R-13, 'E'- Block,  
Bandra Kurla Complex, Bandra (East), Mumbai 400051.



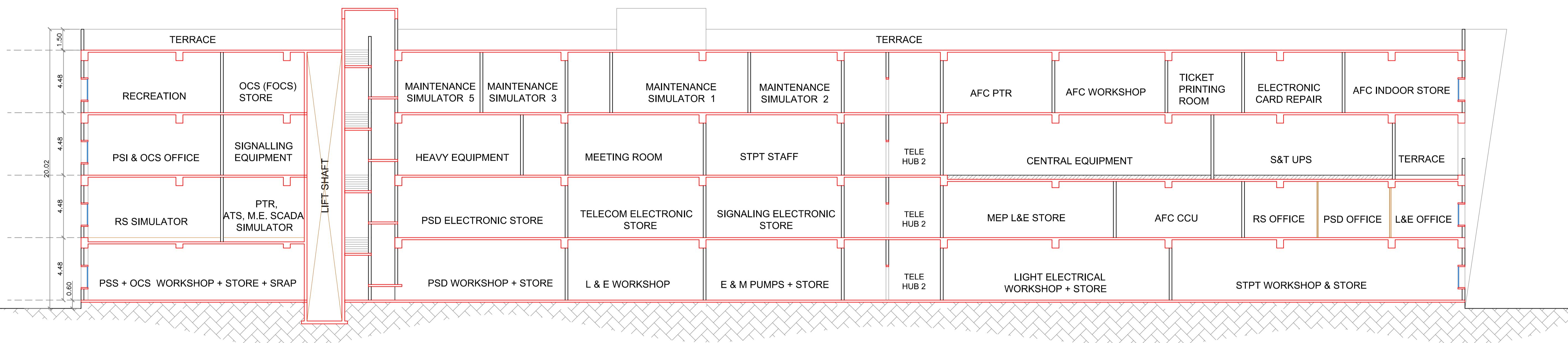
MMRC

Drawing Title :

OCC and Infrastructure Building:  
Terrace Level Plan

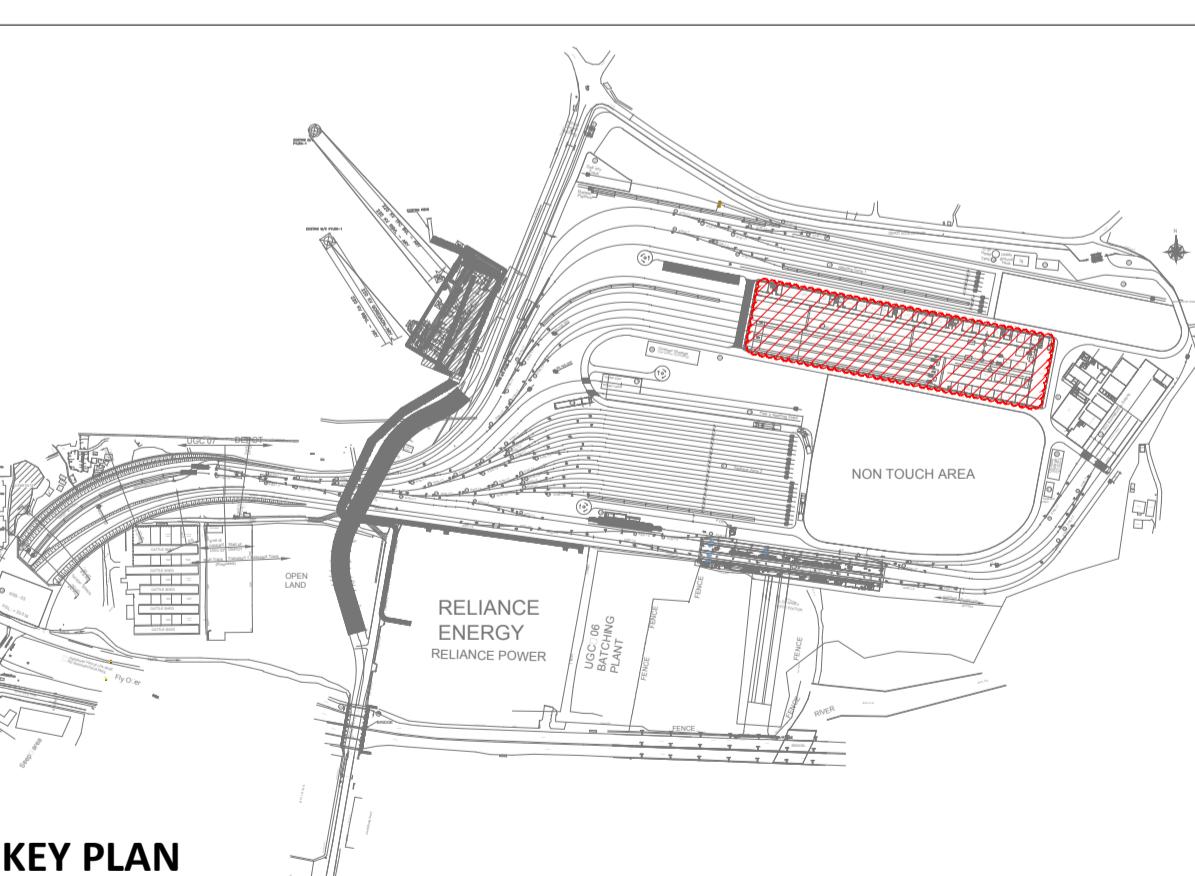
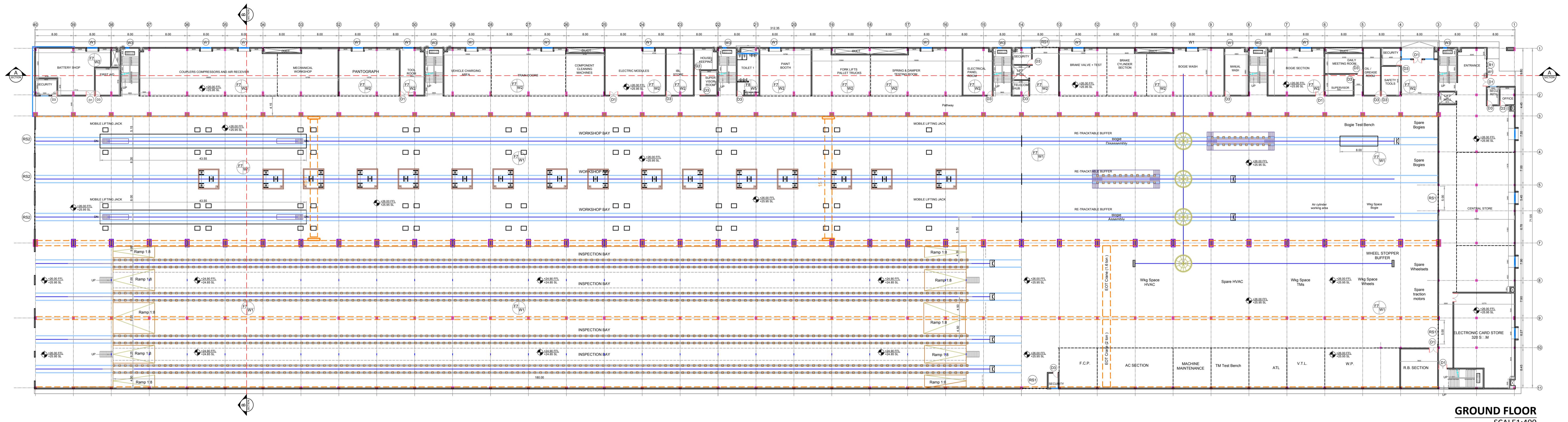


SECTION B-B



SECTION A-A

REFERENCE DRAWINGS :-			FOR INFORMATION ONLY			General Consultants : <b>maple</b> MUMBAI METRO LINE-3 GENERAL CONSULTANT			IC / Detailed Design Consultant : <b>PADECO</b> Shin-Chōmei Bldg. 6-17-19 Shinbashi, Minato-ku, Tokyo 105-0044 Japan Tel: +81-3-3733-0855 Fax: +81-3-3733-0958			<b>AECOM</b> BIF, Infinity Tower C, DLF Cyber City, DLF Phase-II, Gurgaon - 122 002, Haryana – India Tel: +91 124 4830373 Fax: +91 124 4830373			<b>THE Louis Berger Group Inc. USA</b> 1290 23rd St. NW Washington, DC 20037, USA Kurla (W), Mumbai 400051, India		
X-REF FILES :-			Notification : <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C			As noted in the DSR No. _____ dated _____			Project Title : <b>Mumbai Metro Line – 3</b> Detailed Design Consultancy and Construction for Dept of Underground MML – 3			Drawing Title :			MUMBAI METRO RAIL CORPORATION LTD. Namitri Building, Plot No. R-13, 'E'- Block, Bandra Kuria Complex, Bandra (East), Mumbai 400051.		
NOTES :-															OCC and Infrastructure Building: Sections		
															Drawing No. : MML3-CBS/MMRC/IC/DEP/AR/106		
															Rev. 0	DWG Status P	
															P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing		
															CAD File Name : MML3-CBS/MMRC/IC/DEP/AR/106.dwg		
															Page 39		


**KEY PLAN**

REFERENCE DRAWINGS :-

FOR INFORMATION ONLY

X-REF FILES :-

NOTES :-


 General Consultants :  
**maple**  
 MUMBAI METRO LINE-3  
 GENERAL CONSULTANT

Notification :

 A

 B

 C

 As noted in the DSR No. \_\_\_\_\_  
 dated \_\_\_\_\_

 A : Objection. A complete resubmission is required.  
 B : No Objection with comments.  
 C : Notice of No objection.

Assessor Discipline Leader Engineer

-- -- --

Rev. Date Drawn

R1 21.02.2018 SP COMMENTS ON 'R0' ADDRESSED

IC / Detailed Design Consultant :


**AECOM**

**MMRC**

**MUMBAI METRO RAIL CORPORATION LTD.**

Namitri Building, Plot No. R-13, 'E'- Block,

Bandra Kurla Complex, Bandra (East), Mumbai 400051.

Drawing Title :

**MAINTENANCE WORKSHOP & CENTRAL STORE BUILDING**
**GROUND FLOOR PLAN**

Drawing No. : MML-3-CBS/MMRC/IC/DEP/AR/1001 Rev. R1 DWG Status D

P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing

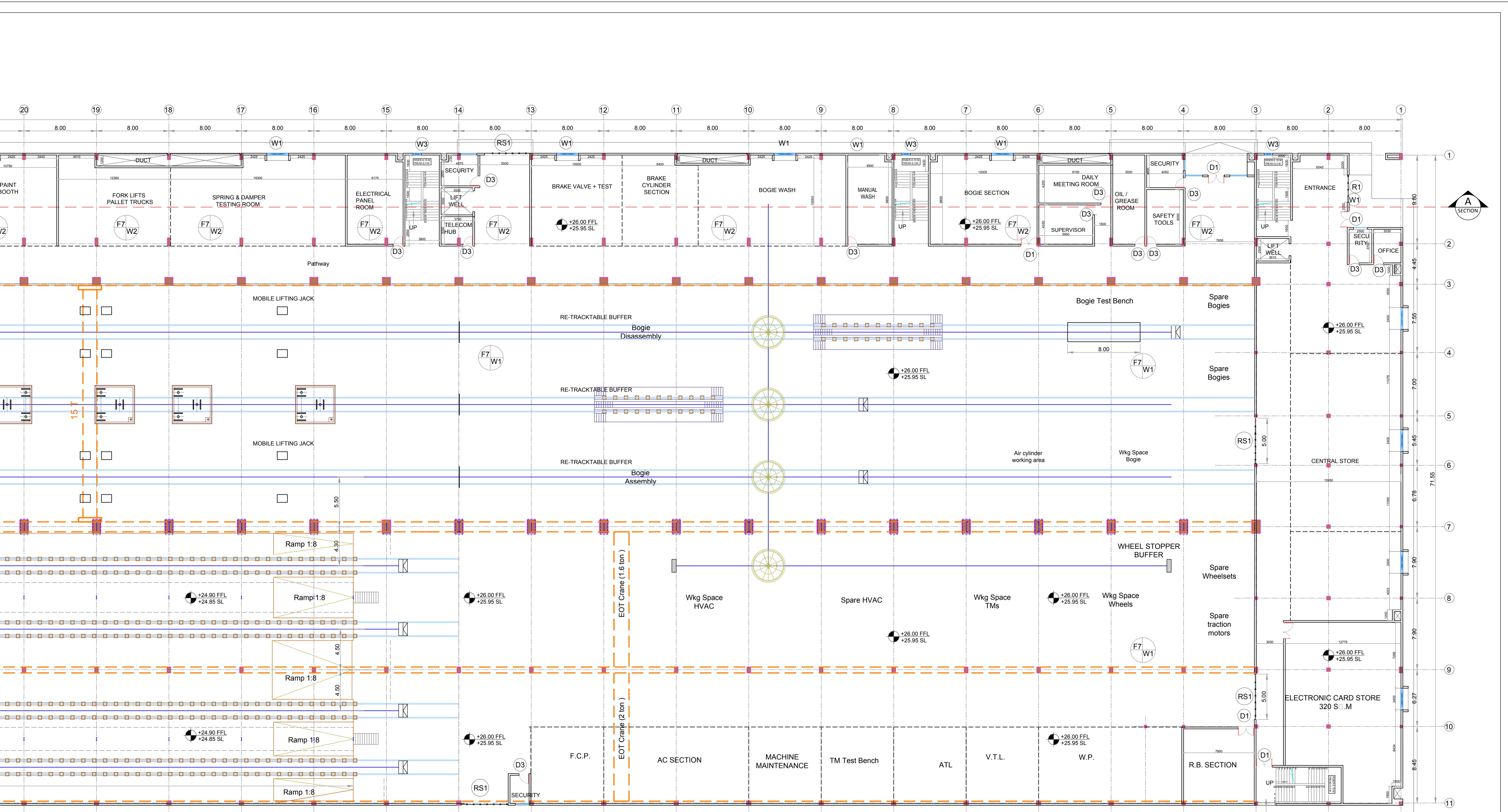
CAD File Name : MML-3-CBS/MMRC/IC/DEP/AR/1001.dwg

 Project Title : Mumbai Metro Line-3  
 Detailed Design Consultancy and  
 Construction for Depot of Underground MML-3

Designed : AK Checked : KT Approved : SC

Scale : 1:400 (A1) Drawn : SP Date : 18.12.2017

Description Designed Checked Approved



#### KEY PLAN

REFERENCE DRAWINGS :-

FOR INFORMATION ONLY

X-REF FILES :-

NOTES :-



MUMBAI METRO LINE-3

GENERAL CONSULTANT

Notification :

A     B     C

As noted in the DSR No. \_\_\_\_\_

dated \_\_\_\_\_

A : Objection. A complete resubmission is required.

B : No Objection with comments.

C : Notice of No objection.

Assessor Discipline Leader Engineer

-- -- --

R1 21.02.2018 SP COMMENTS ON 'R0' ADDRESSED

Rev. Date Drawn

Description

AK KT SC

Designed Checked Approved

IC / Detailed Design Consultant :



PADECO

Padecco Co., Ltd.

Shin-Chōrimon Bldg.

6-17-10 Shinbashi,

Minato-ku, Tokyo

105-0004 Japan

Tel: +81-3-5733-0856

Fax: +81-3-5733-0856

Project Title :

Mumbai Metro Line-3

Detailed Design Consultancy and

Construction for Depot of Underground MML-3

Designed : AK

Checked : KT

Approved : SC



AECOM

DFL Infivity Tower C,

DLF Cyber City, DLF Phase - II,

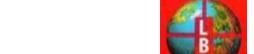
Gurgaon - 122 002, Haryana - India

Tel: +91 124 4830373

Fax: +91 124 4830373

The Louis Berger Group, Inc., USA

Engineers' Planners' Scientists' Economists



MMRC

Namitri Building, Plot No. R-13, 'E'- Block,

Bandra Kurla Complex, Bandra (East), Mumbai 400051.

Drawing Title :

MUMBAI METRO RAIL CORPORATION LTD.

Namitri Building, Plot No. R-13, 'E'- Block,

Bandra Kurla Complex, Bandra (East), Mumbai 400051.

MAINTENANCE WORKSHOP & CENTRAL STORE BUILDING

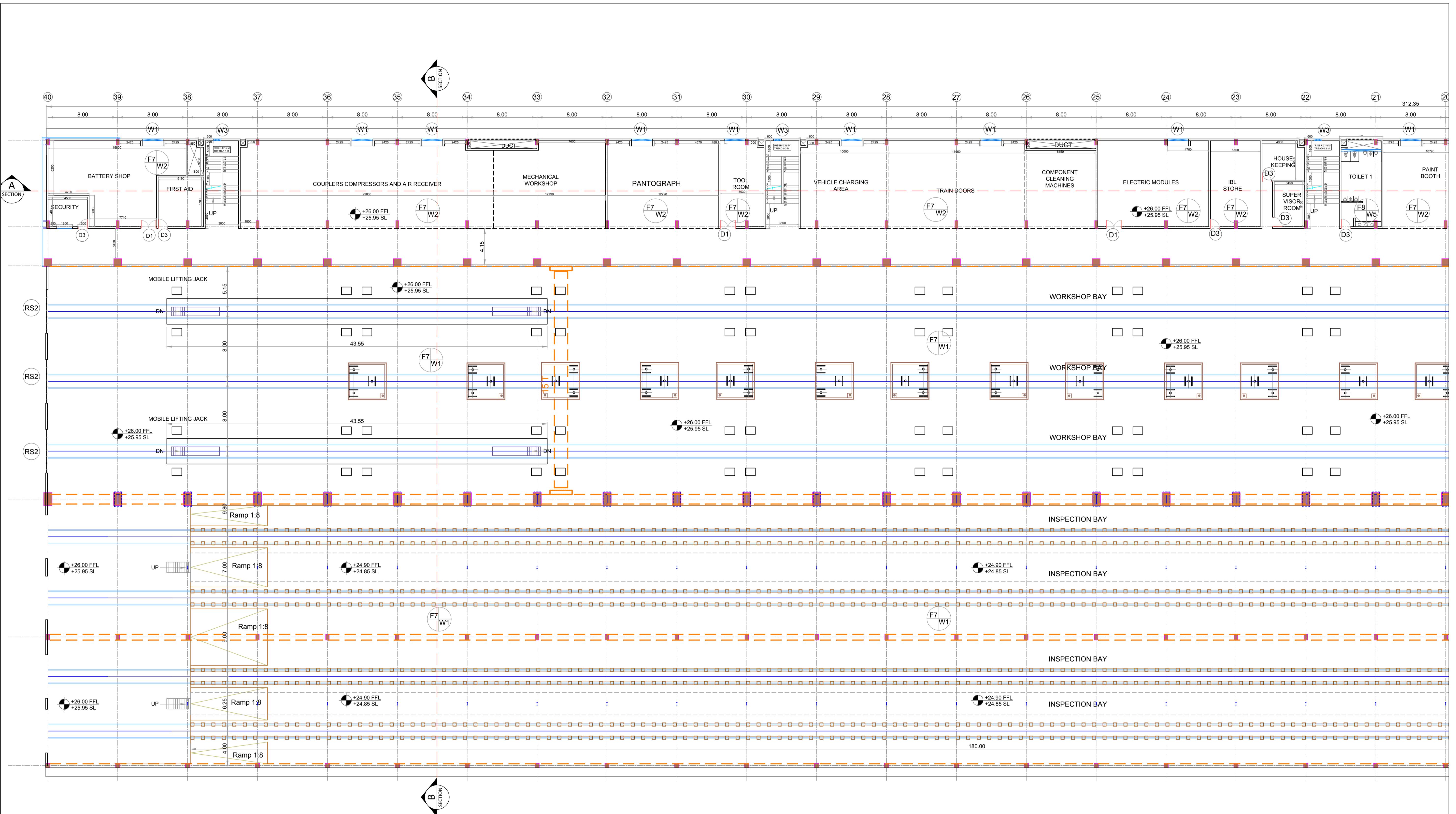
GROUND FLOOR

PART PLAN (GRID NO. 1 TO 20)

Drawing No. : MML-3-CBS/MMRC/IC/DEP/AR/1001/A Rev. R1 DWG Status D

P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing

CAD File Name : MML-3-CBS/MMRC/IC/DEP/AR/1001/A.dwg


**KEY PLAN**

REFERENCE DRAWINGS :-

FOR INFORMATION ONLY

X-REF FILES :-

NOTES :-



General Consultants :  
maple  
MUMBAI METRO LINE-3  
GENERAL CONSULTANT

Notification :  
 A     B     C  
 As noted in the DSR No. \_\_\_\_\_  
 dated \_\_\_\_\_  
 A : Objection. A complete resubmission is required.  
 B : No Objection with comments.  
 C : Notice of No objection.

Assessor	Discipline Leader	Engineer
--	--	--

R1 21.02.2018 SP COMMENTS ON 'R0' ADDRESSED  
 Rev. Date Drawn Description

AK KT SC

1:200  
(A1)

Drawn : SP

C-18

Date : 18.12.2017

IC / Detailed Design Consultant :



PADECO Co., Ltd

Shin-Chammon Bldg

6-17-10 Shinbashi,

Minato-ku, Tokyo

Tel: +81-3-5733-0856

Fax: +81-3-5733-0856

THE LOUIS BERGER GROUP, INC., USA

DLF Cyber City, DLF Phase - II,

Gurgaon - 122 002, Haryana - India

Tel: +91 124 4830373

Fax: +91 124 4830373

A-615/16, Kohinoor City

1202 2nd Fl N

Wadala - 400020

Mumbai - India

Engineers' Planners' Scientists' Economists

AECOM

Project Title :

Mumbai Metro Line-3

Detailed Design Consultancy and

Construction for Depot of Underground MML-3

Designed : AK

Checked : KT

Approved : SC

Scale : 1:200

Drawn : SP

C-18

Date : 18.12.2017

**MUMBAI METRO RAIL CORPORATION LTD.**

Namitri Building, Plot No. R-13, 'E'- Block,

Bandra Kurla Complex, Bandra (East), Mumbai 400051.

MMRC

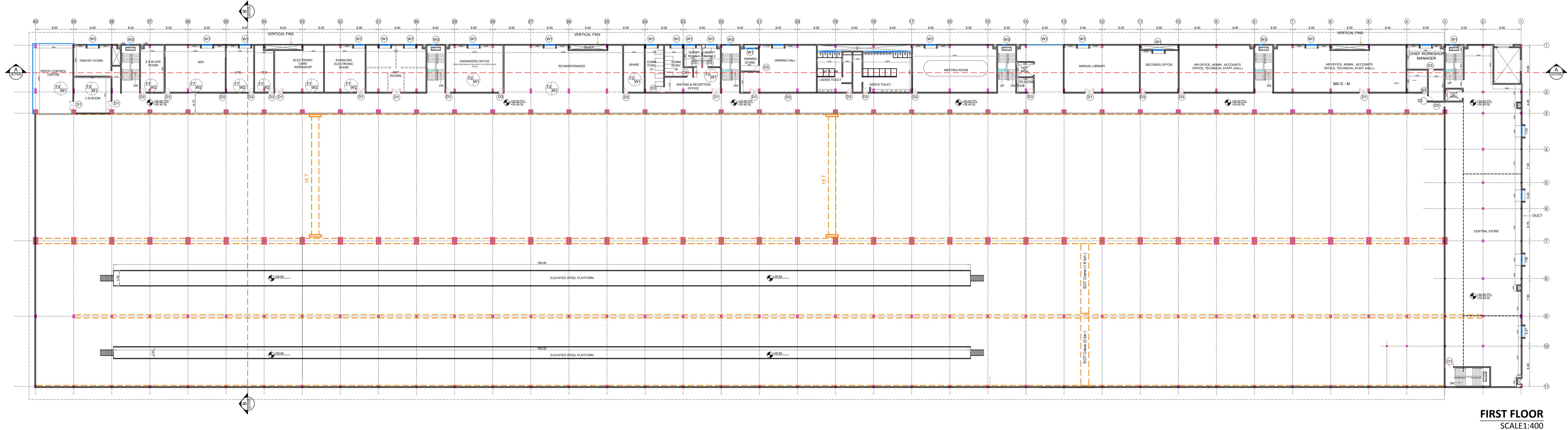
Drawing Title :

**MAINTENANCE WORKSHOP & CENTRAL STORE BUILDING GROUND FLOOR PART PLAN (GRID NO. 20TO 40)**

Drawing No. : MML-3-CBS/MMRC/IC/DEP/AR/1001/B Rev. R1 DWG Status D

P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing

CAD File Name : MML-3-CBS/MMRC/IC/DEP/AR/1001/B.dwg



REFERENCE DRAWINGS :-

X-REF FILES :-

NOTES :-

FOR INFORMATION ONLY



General Consultants :  
**maple**  
MUMBAI METRO LINE-3  
GENERAL CONSULTANT

Notification :

A     B     C

As noted in the DSR No. \_\_\_\_\_  
dated \_\_\_\_\_

A : Objection. A complete resubmission is required.  
B : No Objection with comments.  
C : Notice of No objection.

Assessor   Discipline Leader   Engineer

--   --   --

R1   21.02.2018   SP   COMMENTS ON 'R0' ADDRESSED

Rev.   Date   Drawn

IC / Detailed Design Consultant :

**PADECO**

PADECO Co., Ltd  
Shin-Chammon Bldg  
6-17-10 Shinbashi,  
Minato-ku  
Tokyo 105-0004 Japan

Tel: +81-3-5733-0856

Fax: +81-3-5733-0856

**AECOM**

DLF Infinity Tower C,  
DLF Cyber City, DLF Phase - II,

Gurgaon - 122 002, Haryana - India

Engineering Services • Economics

Fax: +91 124 4830373

1202 2nd Fl Nv  
Wardha Rd, Colaba, Mumbai 400008  
India

**THE Louis Berger Group, Inc., USA**

Engineers • Planners • Scientists • Economists

A-615/16, Kohinoor City

Kurla (West), Mumbai 400088  
India

Project Title : Mumbai Metro Line-3

Detailed Design Consultancy and

Construction for Depot of Underground MML-3

Designed : AK

Checked : KT

Approved : SC

Scale : 1:400

(A1)

Drawn : SP

Date : 18.12.2017

**MUMBAI METRO RAIL CORPORATION LTD.**

Namitri Building, Plot No. R-13, 'E'- Block,  
Bandra Kurla Complex, Bandra (East), Mumbai 400051.

**MMRC**

Drawing Title :

**MAINTENANCE WORKSHOP & CENTRAL STORE BUILDING**

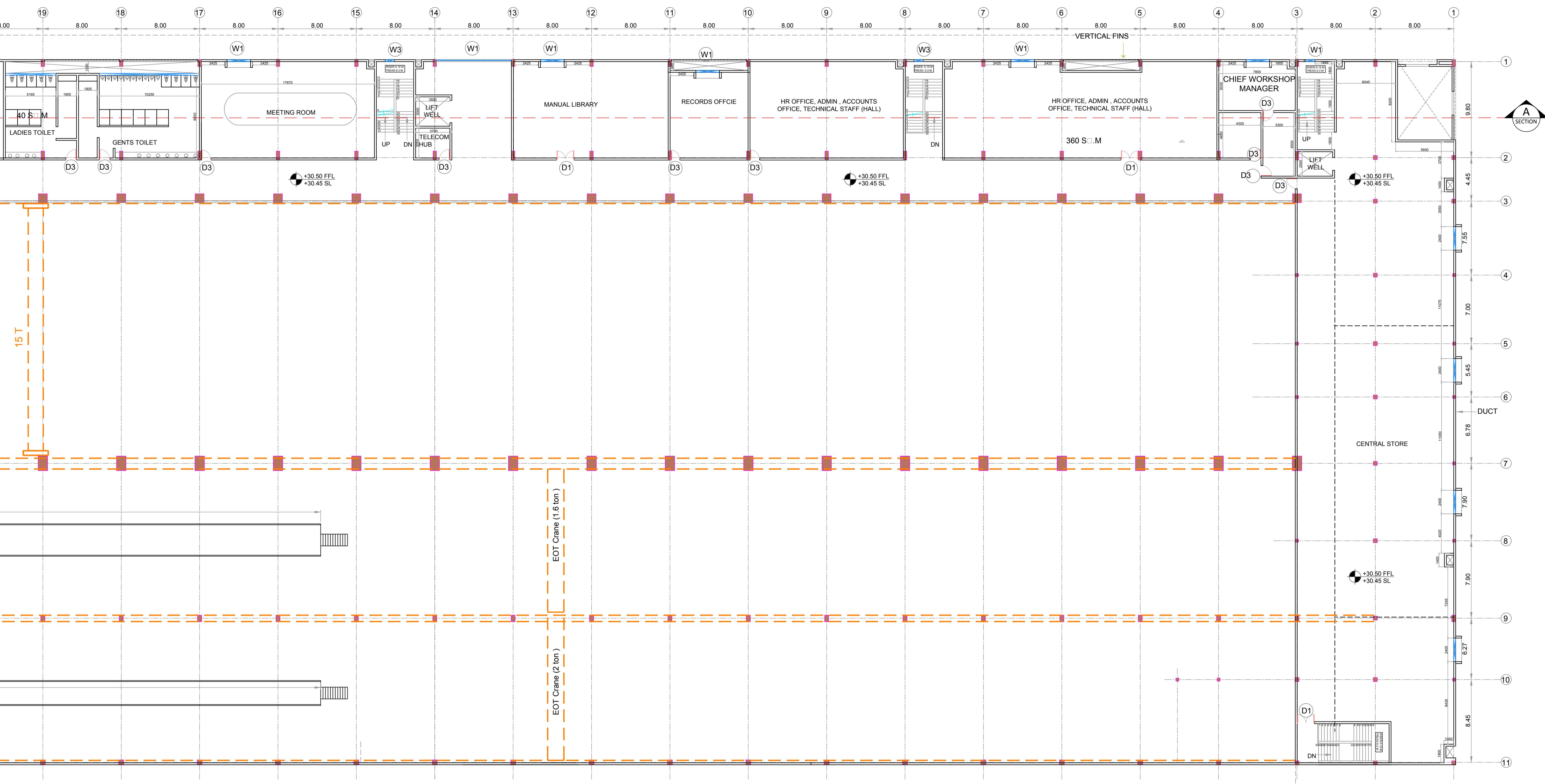
**FIRST FLOOR PLAN**

Drawing No. : MML-3-CBS/MMRC/IC/DEP/AR/1002

Rev. R1 DWG Status D

P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing

CAD File Name : MML-3-CBS/MMRC/IC/DEP/AR/1002.dwg



REFERENCE DRAWINGS :-

X-REF FILES :-

NOTES :-

**FOR INFORMATION ONLY**



General Consultants :  
maple  
MUMBAI METRO LINE-3  
GENERAL CONSULTANT

Notification :  
 A     B     C  
 As noted in the DSR No. \_\_\_\_\_  
 dated \_\_\_\_\_  
 A : Objection. A complete resubmission is required.  
 B : No Objection with comments.  
 C : Notice of No objection.

Assessor   Discipline Leader   Engineer  
 --   --   --

R1   21.02.2018   SP   COMMENTS ON 'R0' ADDRESSED  
 Rev.   Date   Drawn   Description

AK   KT   SC  
 Designed   Checked   Approved

Scale : 1:200  
 (A1)   Drawn : SP   Date : 18.12.2017

IC / Detailed Design Consultant :



PADECO Co., Ltd

Shin-Chōrimon Bldg

6-17-10 Shinbashi,

Minato-ku,

Tokyo 105-0044 Japan

Tel : +81-3-5733-0856

Fax : +81-3-5733-0856

AECOM

AECOM

DFL Infivity Tower C,

DLF Cyber City, DLF Phase - II,

Gurgaon - 122 002, Haryana - India

Fax : +91 124 4830373

THE Louis Berger Group, Inc., USA

Engineers • Planners • Scientists • Economists

1202 21st St NW

Washington DC 20037

A-8151016, Kohinoor City

Kurla (W), Mumbai 400088

India

USA

Project Title :

Mumbai Metro Line-3

Detailed Design Consultancy and

Construction for Depot of Underground MML-3

Designed : AK

Checked : KT

Approved : SC

**MUMBAI METRO RAIL CORPORATION LTD.**

Namitri Building, Plot No. R-13, 'E'- Block,  
Bandra Kurla Complex, Bandra (East), Mumbai 400051.

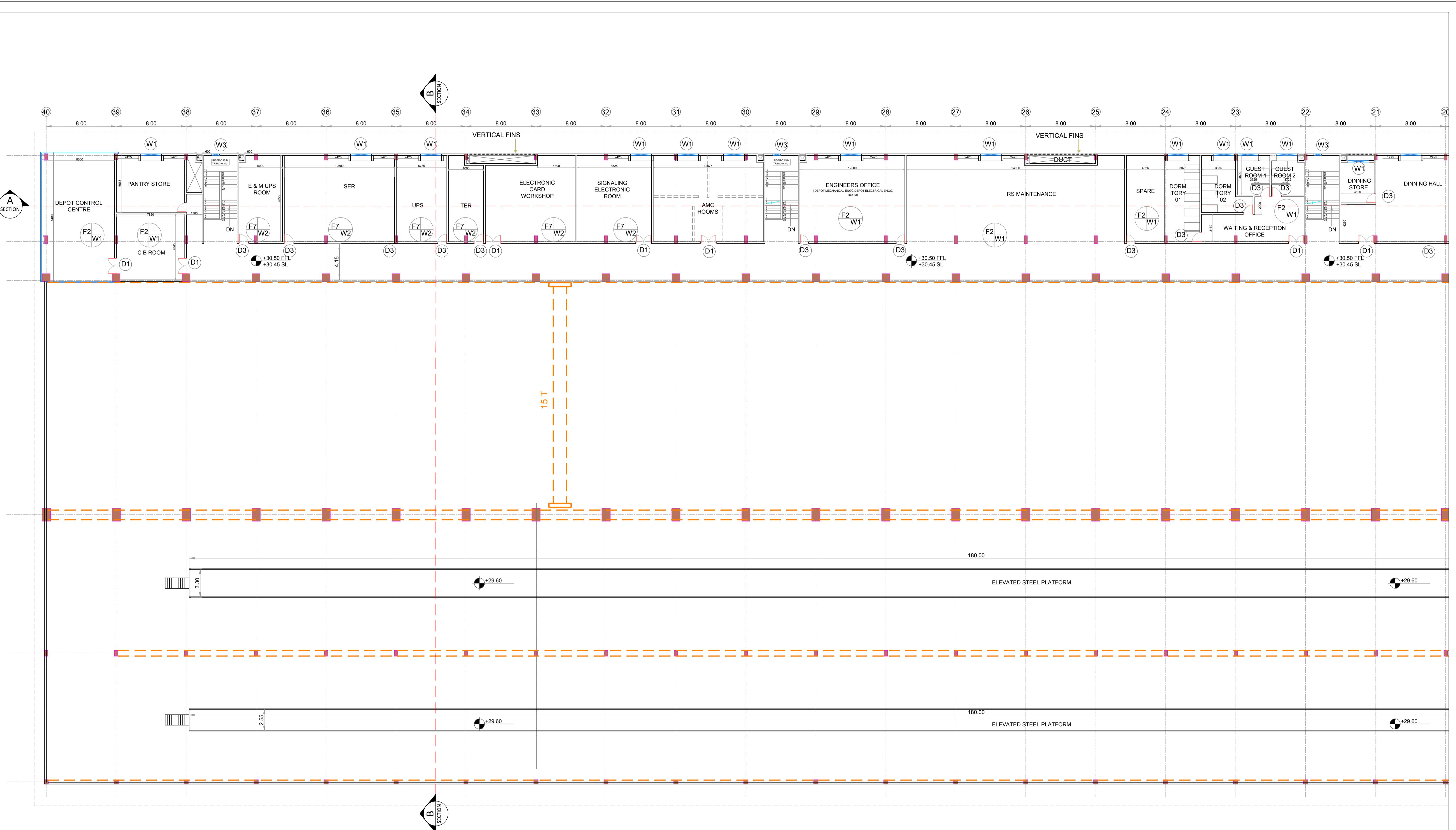
MMRC Drawing Title :

**MAINTENANCE WORKSHOP & CENTRAL STORE BUILDING**  
**FIRST FLOOR**  
**PART PLAN (GRID NO. 1 TO 20)**

Drawing No. : MML-3-CBS/MMRC/IC/DEP/AR/1002/A Rev. R1 DWG Status D

P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing

CAD File Name : MML-3-CBS/MMRC/IC/DEP/AR/1002/A.dwg



REFERENCE DRAWINGS :-

X-REF FILES :-

NOTES :-

FOR INFORMATION ONLY



General Consultants :  
maple  
MUMBAI METRO LINE-3  
GENERAL CONSULTANT

Notification :  
 A     B     C  
 As noted in the DSR No. \_\_\_\_\_  
 dated \_\_\_\_\_  
 A : Objection. A complete resubmission is required.  
 B : No Objection with comments.  
 C : Notice of No objection.

Assessor   Discipline Leader   Engineer

--   --   --

R1   21.02.2018   SP   COMMENTS ON 'R0' ADDRESSED

Rev.   Date   Drawn

Description

AK   KT   SC

Designed   Checked   Approved

Scale : 1:200  
(A1)

Drawn : SP

Date : 18.12.2017

IC / Detailed Design Consultant :



PADECO Co., Ltd

Shin-Chōrimon Bldg

6-17-10 Shinbashi,

Minato-ku, Tokyo

105-0044 Japan

Tel: +81-3-5733-0856

Fax: +81-3-5733-0856



AECOM

DLF Infinity Tower C,

DLF Cyber City, DLF Phase - II,

Gurgaon - 122 002, Haryana - India

Phone: +91 124 4830373

Fax: +91 124 4830373

The Louis Berger Group, Inc., USA



THE LOUIS BERGER GROUP, INC., USA

Engineers • Planners • Scientists • Economists

A-815/16, Kohinoor City

Ward no. 22, Sector 20B

Khar (W), Mumbai 400008

India

Project Title :

Mumbai Metro Line-3

Detailed Design Consultancy and

Construction for Depot of Underground MML-3

Designed : AK

Checked : KT

Approved : SC

P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing

CAD File Name : MML-3-CBS/MMRC/IC/DEP/AR/1002/B.dwg

MUMBAI METRO RAIL CORPORATION LTD.

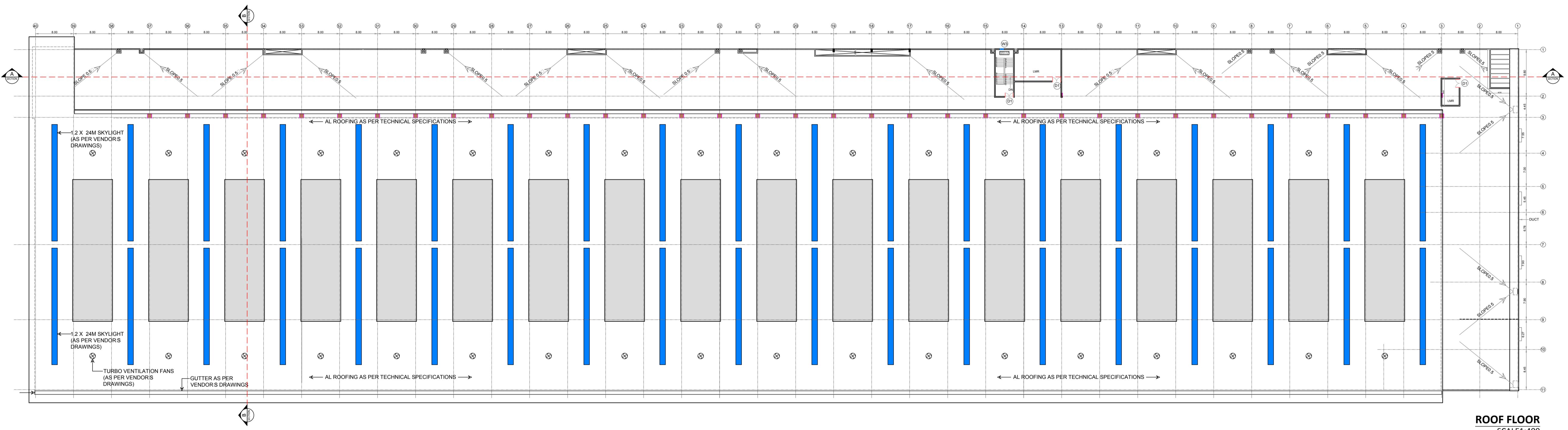
Namitri Building, Plot No. R-13, 'E'- Block,  
Bandra Kurla Complex, Bandra (East), Mumbai 400051.

MMRC

Drawing Title :

MAINTENANCE WORKSHOP & CENTRAL STORE BUILDING  
FIRST FLOOR  
PART PLAN (GRID NO. 20 TO 40)

Drawing No. : MML-3-CBS/MMRC/IC/DEP/AR/1002/B Rev. R1 DWG Status D



FLOORING		WALLS		WORKSHOP & INSPECTION BAY BUILDING									
NAME	CODE	NAME	CODE	DOOR SCHEDULE	OPENING	HEIGHT	CIL	LINTEL	WINDOW SCHEDULE	OPENING	HEIGHT	CIL	LINTEL
GRANITE	F1	ACRYLIC	W1	S NO	NAME	OPENING	SIZE	HEIGHT	CIL	1	W1	2400	2000
VETRIFIED MSES	F2	OBX	W2	1	D1	1800	2400	---	2450				
MODULAR ACCESS FLOOR	F3	GRANITE	W3										
MODULAR WOOLLEN CARPET	F4	SOUNDPROOF PANELS	W4	2	D2	1800	2400	---	2450				
TRIMIX WITH EPOXY COATING	F5	CERAMIC	W5	3	D3	1100	2400	---	2450				
TRIMIX WITH EPOXY COATING	F6	WATER PROOF PAINT	W6										
HARDENED FLOOR WITH EPOXY COATING	F7	ALUMINUM COMPOSITE PANEL	W7	4	D4	750	2400	---	2450				
CERAMIC TILES	F8	SAND BLASTED GRANITE	W8	5	D5	5000	5000	---	5000				
ROLLING SHUTTER SCHEDULE													
S NO													
NAME													
OPENING SIZE													
1													
RS1													
5000													
3000													
2													
RS2													
6000													
6000													

REFERENCE DRAWINGS :-

FOR INFORMATION ONLY

X-REF FILES :-

NOTES :-



General Consultants :  
**maple**  
MUMBAI METRO LINE-3  
GENERAL CONSULTANT

Notification :  
 A     B     C  
 As noted in the DSR No. \_\_\_\_\_  
 dated \_\_\_\_\_

A : Objection. A complete resubmission is required.  
 B : No Objection with comments.  
 C : Notice of No objection.

Assessor	Discipline Leader	Engineer
--	--	--

R1 21.02.2018 SP COMMENTS ON 'RO' ADDRESSED

IC / Detailed Design Consultant :

**PADCO** **AECOM** **THE Louis Berger Group, Inc., USA**

PADCO Co. Ltd  
Shin-Charnmon Bldg  
6-17-10 Shinbashi,  
Minato-ku, Tokyo 105-0044 Japan  
Tel: +81-3-5733-0856  
Fax: +81-3-5733-0856

Infra Tower C,  
DLF Cyber City, DLF Phase - II,  
Gurgaon - 122 002, Haryana - India

1202 2nd Fl Nw  
Wadhwani Rd, 2nd Floor  
Khar (W), Mumbai 400008  
India

Engineers • Planners • Scientists • Economists

A-615/16, Kohinoor City  
Wadhwani Rd, 2nd Floor  
Khar (W), Mumbai 400008  
India

Fax: +91 124 4830373

W: www.padcoco.com

E-mail: info@padcoco.com

Project Title : Mumbai Metro Line-3

Detailed Design Consultancy and

Construction for Depot of Underground MML-3

Designed : AK    Checked : KT    Approved : SC

AK KT SC

Scale : 1:400 (A1)

Drawn : SP

Date : 18.12.2017

P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing

CAD File Name : MML-3-CBS/MMRC/IC/DEP/AR/1003.dwg

**MUMBAI METRO RAIL CORPORATION LTD.**  
Namitri Building, Plot No. R-13, 'E'- Block,  
Bandra Kurla Complex, Bandra (East), Mumbai 400051.

Drawing Title :

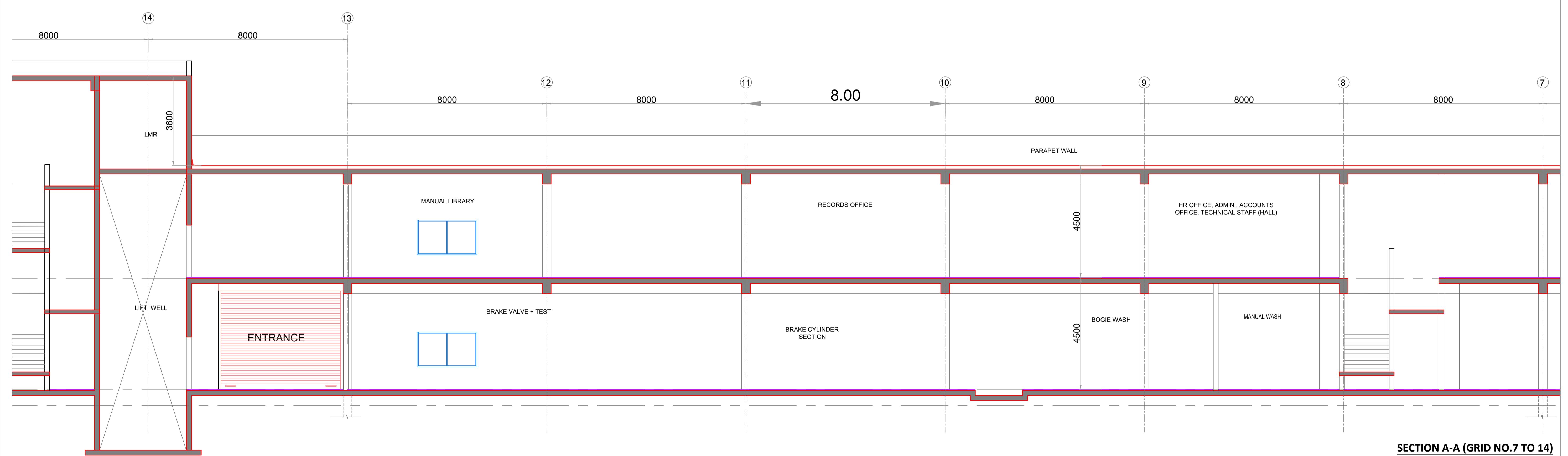
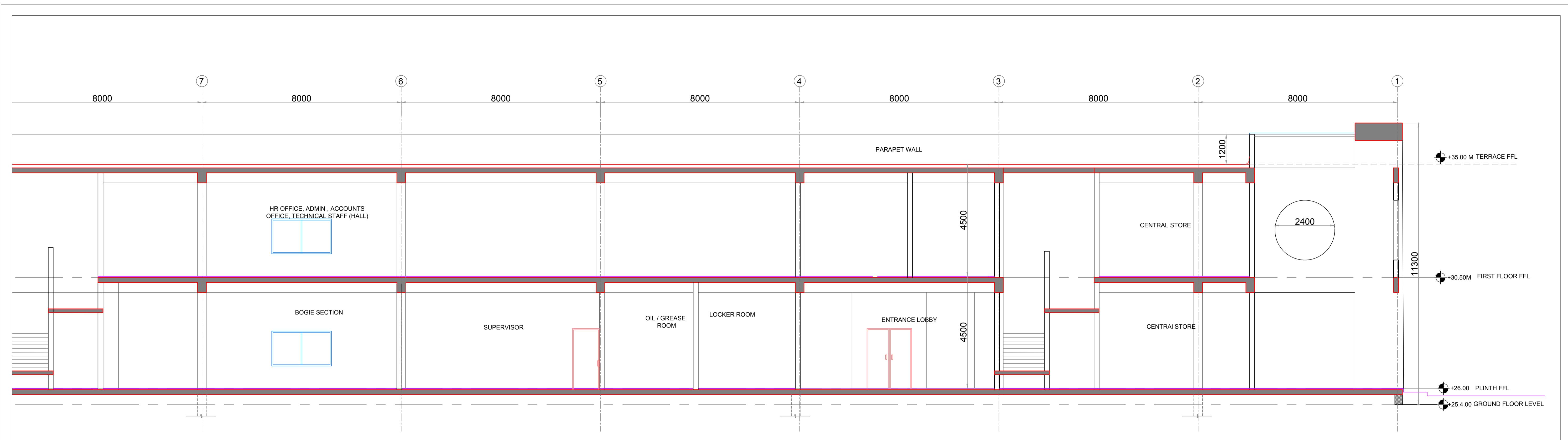
**MAINTENANCE WORKSHOP & CENTRAL STORE BUILDING**

**ROOF PLAN**

Drawing No. : MML-3-CBS/MMRC/IC/DEP/AR/1003 Rev. R1 DWG Status D

P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing

CAD File Name : MML-3-CBS/MMRC/IC/DEP/AR/1003.dwg



REFERENCE DRAWINGS :-

FOR INFORMATION ONLY

X-REF FILES :-

NOTES :-



General Consultants :  
maple  
MUMBAI METRO LINE-3  
GENERAL CONSULTANT

Notification :

A     B     C

As noted in the DSR No. \_\_\_\_\_  
dated \_\_\_\_\_

A : Objection, A complete resubmission is required.  
B : No Objection with comments.  
C : Notice of No objection.

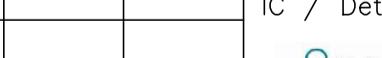
Assessor   Discipline Leader   Engineer

--   --   --

R1   21.02.2018   SP   COMMENTS ON 'R0' ADDRESSED

Rev.   Date   Drawn

IC / Detailed Design Consultant :



PADECO Co., Ltd

Shin-Chammon Bldg

6-17-10 Shinbashi,

Minato-ku, Tokyo

105-0004 Japan

Tel: +81-3-5733-0856

Fax: +81-3-5733-0856

THE Louis Berger Group, Inc., USA

Engineers • Planners • Scientists • Economists

120 2nd St NW

Washington DC 20004

A-615#16, Kohinoor City

Kurla (W), Mumbai 400086

INDIA

Project Title :

Mumbai Metro Line-3

Detailed Design Consultancy and

Construction for Depot of Underground MML-3

Designed : AK

Checked : KT

Approved : SC

Scale : 1:175

(A1)

Drawn : SP

C

Date : 18.12.2017

MUMBAI METRO RAIL CORPORATION LTD.

Namitri Building, Plot No. R-13, 'E'- Block,  
Bandra Kurla Complex, Bandra (East), Mumbai 400051.

MMRC

Drawing Title :

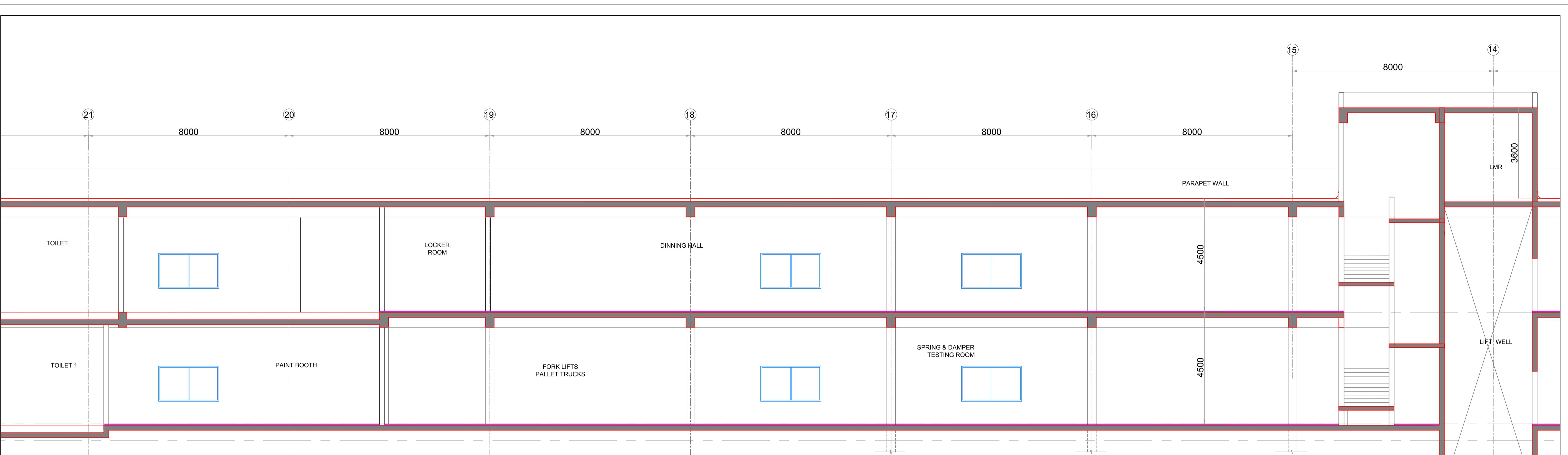
MAINTENANCE WORKSHOP & CENTRAL STORE BUILDING

SECTION A-A (GRID NO. 1 TO 14)

Drawing No. : MML-3-CBS/MMRC/IC/DEP/AR/1004 Rev. R1 DWG Status D

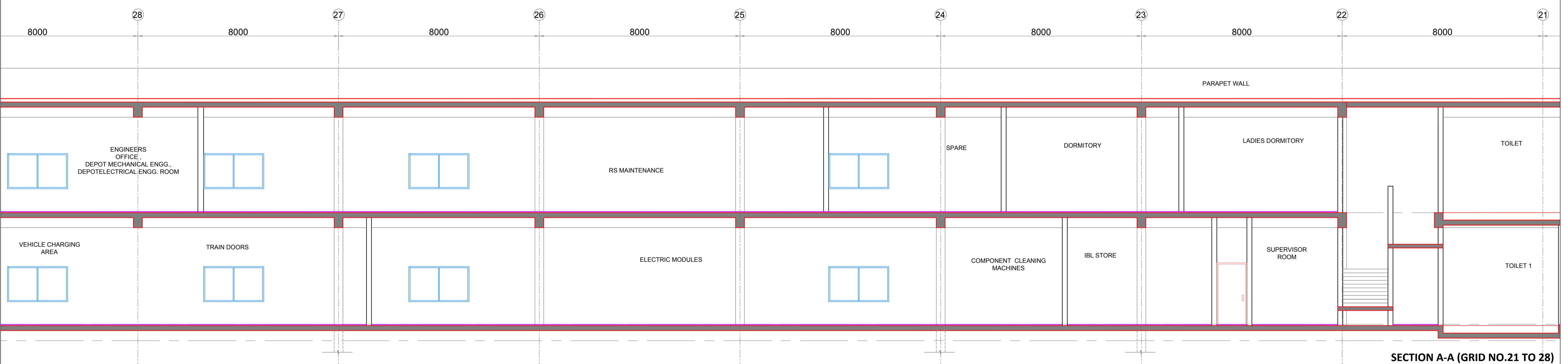
P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing

CAD File Name : MML-3-CBS/MMRC/IC/DEP/AR/1004.dwg



**SECTION A-A (GRID NO.14 TO 21)**

SCALE1:175



**SECTION A-A (GRID NO.21 TO 28)**

SCALE1:175

REFERENCE DRAWINGS :-

FOR INFORMATION ONLY



X-REF FILES :-

NOTES :-

General Consultants :

maple

MUMBAI METRO LINE-3  
GENERAL CONSULTANT

Notification :

A     B     C

As noted in the DSR No. \_\_\_\_\_  
dated \_\_\_\_\_

A : Objection, a complete resubmission is required.  
B : No Objection with comments.  
C : Notice of No objection.

Assessor   Discipline Leader   Engineer

--   --   --

R1   21.02.2018   SP   COMMENTS ON 'RO' ADDRESSED

Rev.   Date   Drawn

AK   KT   SC

Scale : 1:175  
(A1)

Designed   Checked   Approved

Description

IC / Detailed Design Consultant :

**PADCO**

PADCO Co. Ltd  
Shin-Chammon Bldg  
6-17-10 Shinbashi,  
Minato-ku, Tokyo  
105-0004 Japan  
Tel: +81-3-5733-0855  
Fax: +81-3-5733-0856

Project Title : Mumbai Metro Line-3

Detailed Design Consultancy and  
Construction for Depot of Underground MML-3

Designed : AK   Checked : KT   Approved : SC

Scale : 1:175  
(A1)

Drawn : SP

Date : 18.12.2017

**AECOM**

DLF Infinity Tower C,  
DLF Cyber City, DLF Phase - II,  
Gurgaon - 122 002, Haryana - India

Fax: +91 124 4830373

Engineers \* Planners \* Scientists \* Economists

1202 23rd Flr Nw

Wardha Rd, C-20207

A-615/16, Kohinoor City

Indore - 452008  
India

THE Louis Berger Group, Inc., USA

1202 23rd Flr Nw

Wardha Rd, C-20207

A-615/16, Kohinoor City

Indore - 452008  
India

**MUMBAI METRO RAIL CORPORATION LTD.**

Namitri Building, Plot No. R-13, 'E'- Block,  
Bandra Kurla Complex, Bandra (East), Mumbai 400051.

MMRC

Drawing Title :

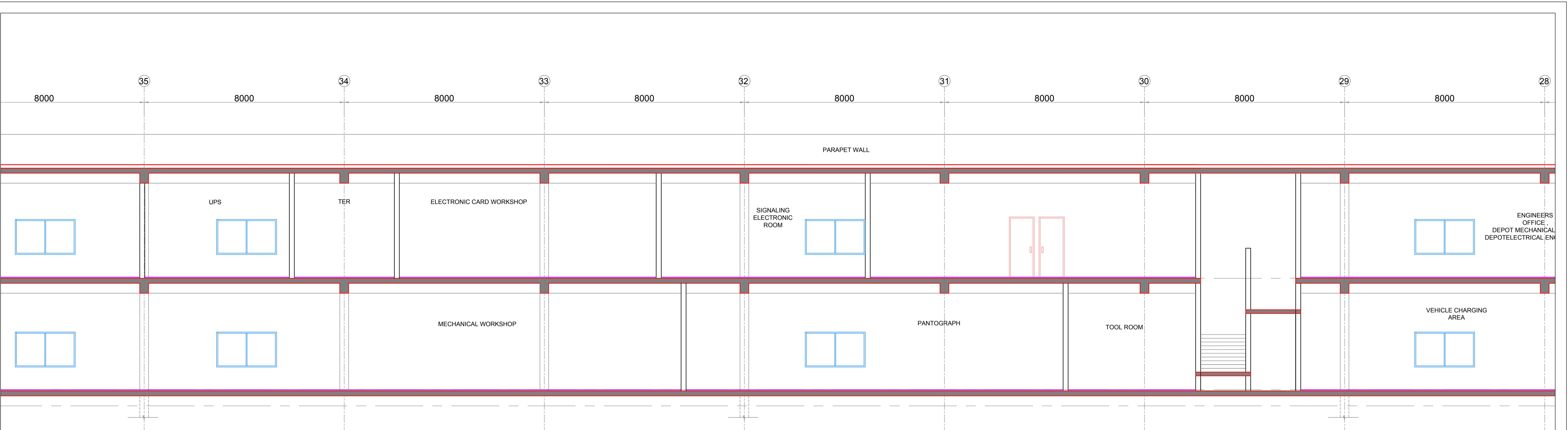
**MAINTENANCE WORKSHOP & CENTRAL STORE BUILDING**

**SECTION A-A (GRID NO. 14 TO 28)**

Drawing No. : MML-3-CBS/MMRC/IC/DEP/AR/1004/A Rev. R1 DWG Status D

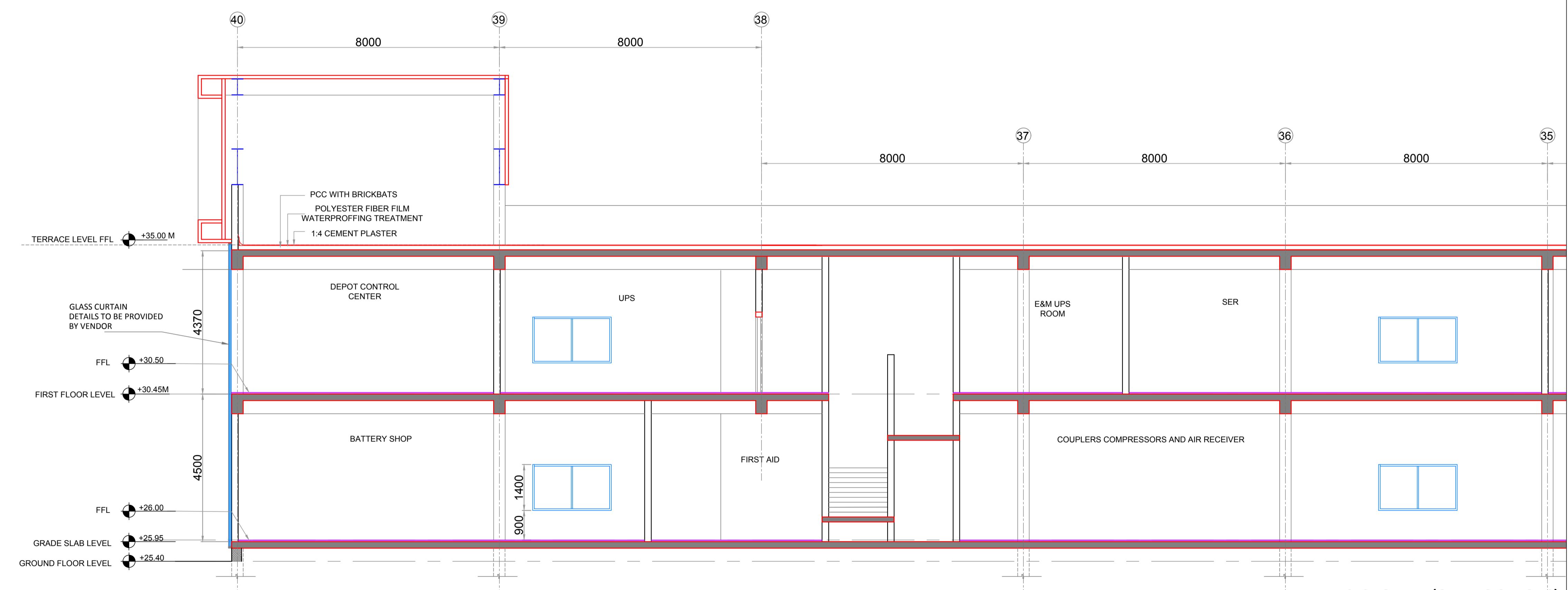
P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing

CAD File Name : MML-3-CBS/MMRC/IC/DEP/AR/1004/A.dwg



SECTION A-A (GRID NO.28 TO 35)

SCALE 1:175



SECTION A-A (GRID NO.35 TO 40)

SCALE 1:175

REFERENCE DRAWINGS :-

FOR INFORMATION ONLY



X-REF FILES :-

NOTES :-

Notification :

A     B     C

As noted in the DSR No. \_\_\_\_\_

A : Objection, A complete resubmission is required.  
B : No Objection with comments.  
C : Notice of No objection.

Assessor   Discipline Leader   Engineer

--   --   --

R1   21.02.2018   SP

Rev.   Date   Drawn

COMMENTS ON 'RO' ADDRESSED

Description

AK   KT   SC

AK

KT

SC

Scale : 1:175

(A1)

Drawn : SP

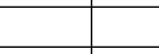
C

Approved

B

Date : 18.12.2017

IC / Detailed Design Consultant :



PADECO Co., Ltd

Shin-Chammon Bldg

6-17-10 Shinbashi,

Minato-ku, Tokyo

105-0004 Japan

Tel: +81-3-5733-0856

Fax: +81-3-5733-0856



AECOM

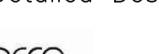
Sr. Infra Tower C,

DLF Cyber City, DLF Phase - II,

Gurgaon - 122 002, Haryana - India

Fax: +91 124 4830373

The Louis Berger Group, Inc., USA



THE LOUIS BERGER GROUP, INC., USA

Engineers • Planners • Scientists • Economists

A-615/16, Kohinoor City

1202 21st Fl N

Wadala - 400020, Mumbai - 400008

India



MMRC

Drawing Title :

MUMBAI METRO RAIL CORPORATION LTD.

Namitri Building, Plot No. R-13, 'E'- Block,  
Bandra Kurla Complex, Bandra (East), Mumbai 400051.

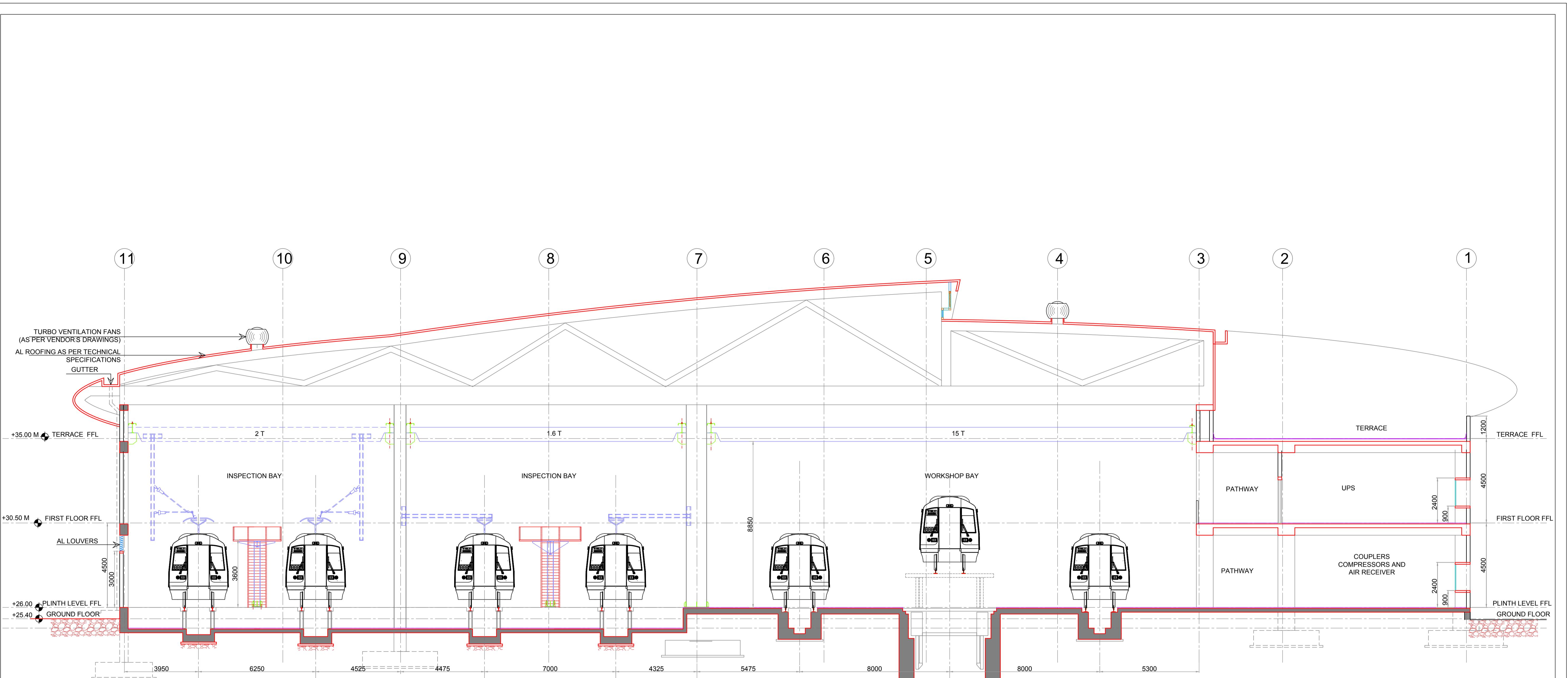
MAINTENANCE WORKSHOP & CENTRAL STORE BUILDING

SECTION A-A (GRID NO. 28 TO 40)

Drawing No. : MML-3-CBS/MMRC/IC/DEP/AR/1004/B Rev. R1 DWG Status D

P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing

CAD File Name : MML-3-CBS/MMRC/IC/DEP/AR/1004/B.dwg



REFERENCE DRAWINGS :-

X-REF FILES :-

NOTES :-

FOR INFORMATION ONLY



General Consultants :  
maple  
MUMBAI METRO LINE-3  
GENERAL CONSULTANT

Notification :

A     B     C

As noted in the DSR No. \_\_\_\_\_  
dated \_\_\_\_\_

A : Objection. A complete resubmission is required.  
B : No Objection with comments.  
C : Notice of No objection.

Assessor	Discipline Leader	Engineer
--	--	--

R1 21.02.2018 SP COMMENTS ON 'R0' ADDRESSED

Rev. Date Drawn Description

IC / Detailed Design Consultant :



PADECO



AECOM



THE Louis Berger Group, Inc., USA



SOM



WSP



KBR



AECOM



SOM



WSP



KBR



AECOM



SOM



WSP



KBR



AECOM



SOM



WSP



KBR



AECOM



SOM



WSP



KBR



AECOM



SOM



WSP



KBR



AECOM



SOM



WSP



KBR

MUMBAI METRO RAIL CORPORATION LTD.

Namitri Building, Plot No. R-13, 'E'- Block,  
Bandra Kurla Complex, Bandra (East), Mumbai 400051.



MMRC

Drawing Title :

MAINTENANCE WORKSHOP & CENTRAL STORE BUILDING

SECTION B-B

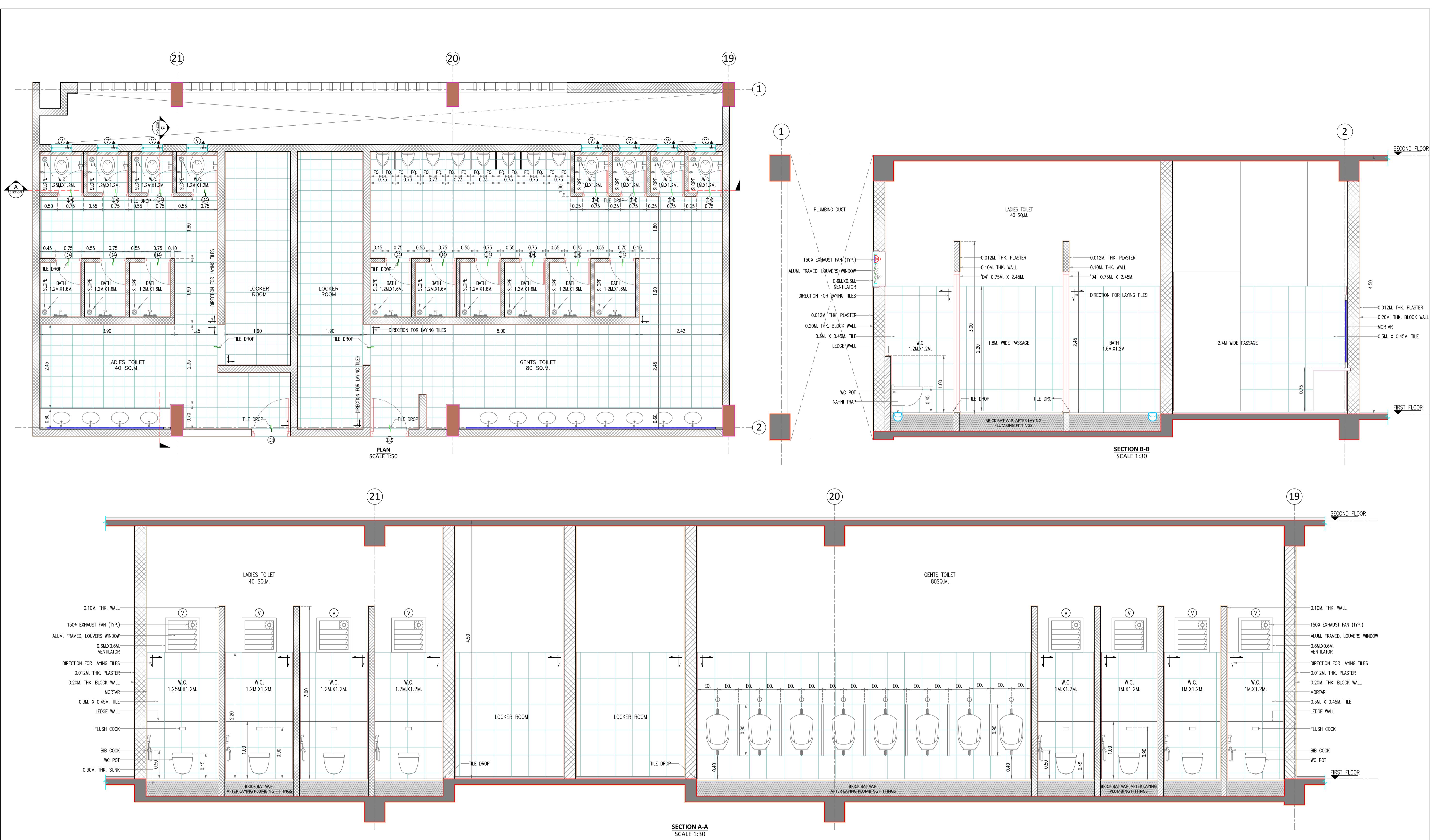
Drawing No. : MML-3-CBS/MMRC/IC/DEP/AR/1005 Rev. DWG Status

R1

D

P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing

CAD File Name : MML-3-CBS/MMRC/IC/DEP/AR/1005.dwg



REFERENCE DRAWINGS :-

X-REF FILES :-

NOTES :-

FOR INFORMATION ONLY



General Consultants :  
maple  
MUMBAI METRO LINE-3  
GENERAL CONSULTANT

Notification :  
 A     B     C  
 As noted in the DSR No. \_\_\_\_\_  
 dated \_\_\_\_\_

A : Objection. A complete resubmission is required.  
 B : No Objection with comments.  
 C : Notice of No objection.

Assessor Discipline Leader Engineer

-- -- --

R1 21.02.2018 SP COMMENTS ON 'R0' ADDRESSED

Rev. Date Drawn

IC / Detailed Design Consultant :



PADECO



AECOM



THE Louis Berger Group, Inc. USA



Engineering Planners Sciences Economics



WSP



Kohinoor City



Kohinoor City



Kohinoor City

Namitri Building, Plot No. R-13, 'E'- Block,  
Bandra Kurla Complex, Bandra (East), Mumbai 400051.

Drawing Title :

MUMBAI METRO RAIL CORPORATION LTD.

MAINTENANCE WORKSHOP & CENTRAL STORE BUILDING

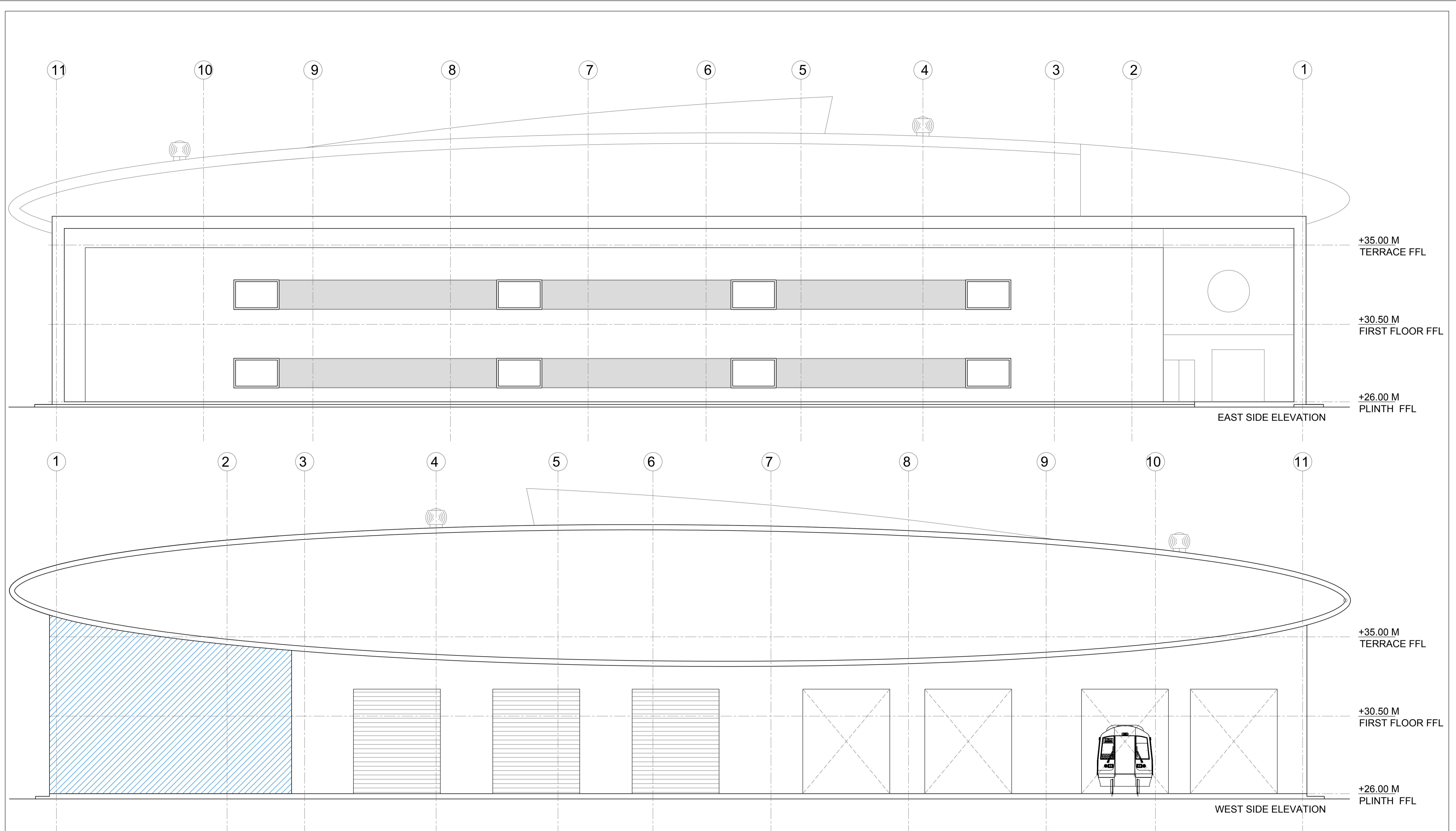
FIRST FLOOR

TOILET DETAIL SECTION

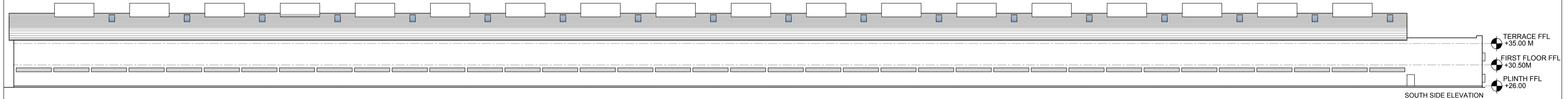
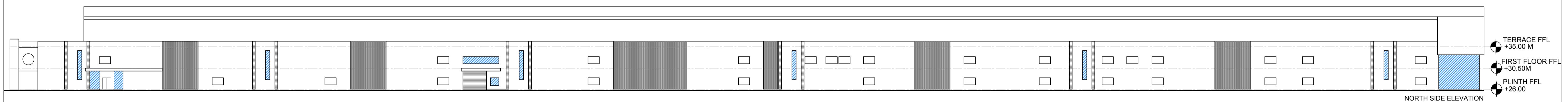
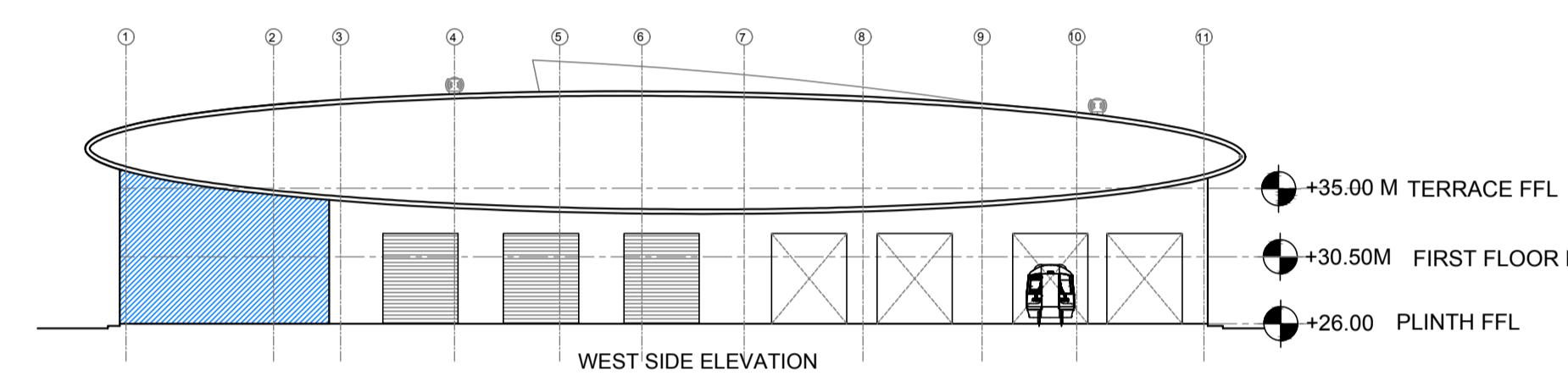
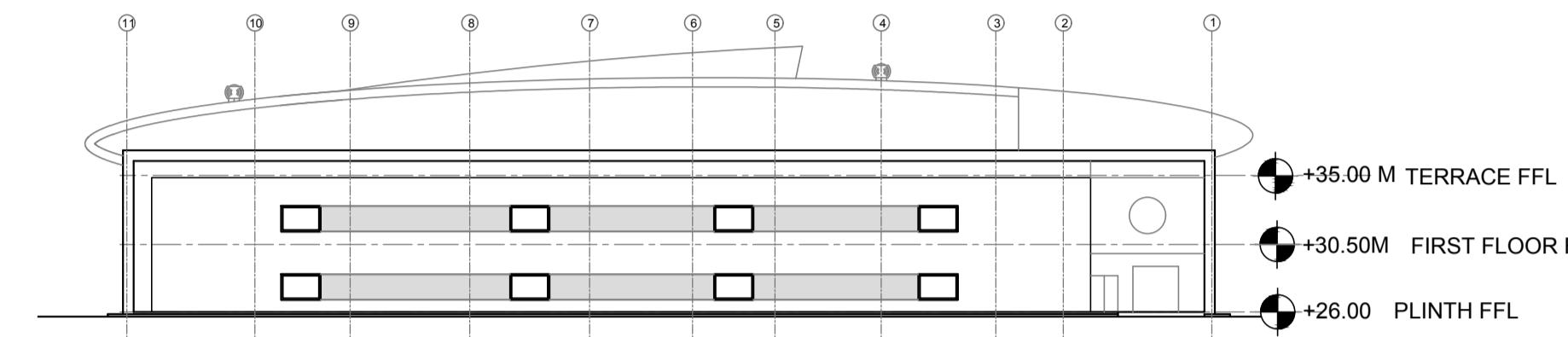
Drawing No. : MML-3-CBS/MMRC/IC/DEP/AR/1006 Rev. R1 DWG Status D

P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing

CAD File Name : MML-3-CBS/MMRC/IC/DEP/AR/1006.dwg



REFERENCE DRAWINGS :-			FOR INFORMATION ONLY			General Consultants :  MUMBAI METRO LINE-3 GENERAL CONSULTANT			IC / Detailed Design Consultant :			MUMBAI METRO RAIL CORPORATION LTD.		
X-REF FILES :-						<input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C			PADECO    AECOM    THE Louis Berger Group, Inc., USA			Namitri Building, Plot No. R-13, 'E' - Block, Bandra Kurla Complex, Bandra (East), Mumbai 400051.		
NOTES :-						As noted in the DSR No. _____ dated _____			Project Title : Mumbai Metro Line-3 Detailed Design Consultancy and Construction for Depot of Underground MML-3			Drawing Title : MAINTENANCE WORKSHOP & CENTRAL STORE BUILDING EAST & WEST SIDE ELEVATION		
						A : Objection. A complete resubmission is required. B : No Objection with comments. C : Notice of No objection.			Designed : AK    Checked : KT    Approved : SC			Drawing No. : MML-3-CBS/MMRC/IC/DEP/AR/1007 Rev. R1 DWG Status D		
						Assessor   Discipline Leader   Engineer			Scale : 1:100 (A1) Drawn : SP Date : 18.12.2017			P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing		
						R1 21.02.2018 SP COMMENTS ON 'RO' ADDRESSED			Description			CAD File Name : MML-3-CBS/MMRC/IC/DEP/AR/1007.dwg		
						Rev. Date Drawn			Designed Checked Approved					



REFERENCE DRAWINGS :-

**FOR INFORMATION ONLY**



X-REF FILES :-

NOTES :-

Notification :

A     B     C

As noted in the DSR No. \_\_\_\_\_

dated \_\_\_\_\_  
A : Objection. A complete resubmission is required.  
B : No Objection with comments.  
C : Notice of No objection.

Assessor   Discipline Leader   Engineer

--   --   --

Rev. Date Drawn

COMMENTS ON 'R0' ADDRESSED

AK	KT	SC	Scale : 1:400 (A1)	Drawn : SP	Date : 18.12.2017
Designed	Checked	Approved			

IC / Detailed Design Consultant :

**PADCO**

PADCO Co., Ltd  
Shin-Charmon Bldg  
6-17-10 Shinbashi,  
Minato-ku,  
Tokyo 105-0004 Japan  
Tel: +81-3-5733-0856  
Fax: +81-3-5733-0856

Project Title : Mumbai Metro Line-3

Detailed Design Consultancy and  
Construction for Depot of Underground MML-3

Designed : AK   Checked : KT   Approved : SC

*[Signatures]*

**AECOM**

AECOM  
SFI, Infinity Tower C,  
DLF Cyber City, DLF Phase - II,  
Gurgaon - 122 002, Haryana - India  
Tel: +91 124 4830373  
Fax: +91 124 4830373

Engineers \* Planners \* Scientists \* Economists

1202 23rd Flr Nw  
Wardmapur, G-2020,  
Khar (W), Mumbai 400008  
India

**THE Louis Berger Group, Inc., USA**

1202 23rd Flr Nw  
Wardmapur, G-2020,  
Khar (W), Mumbai 400008  
India

**MMRC**

Namitri Building, Plot No. R-13, 'E'- Block,  
Bandra Kurla Complex, Bandra (East), Mumbai 400051.

**MUMBAI METRO RAIL CORPORATION LTD.**

Namitri Building, Plot No. R-13, 'E'- Block,  
Bandra Kurla Complex, Bandra (East), Mumbai 400051.

Drawing Title :

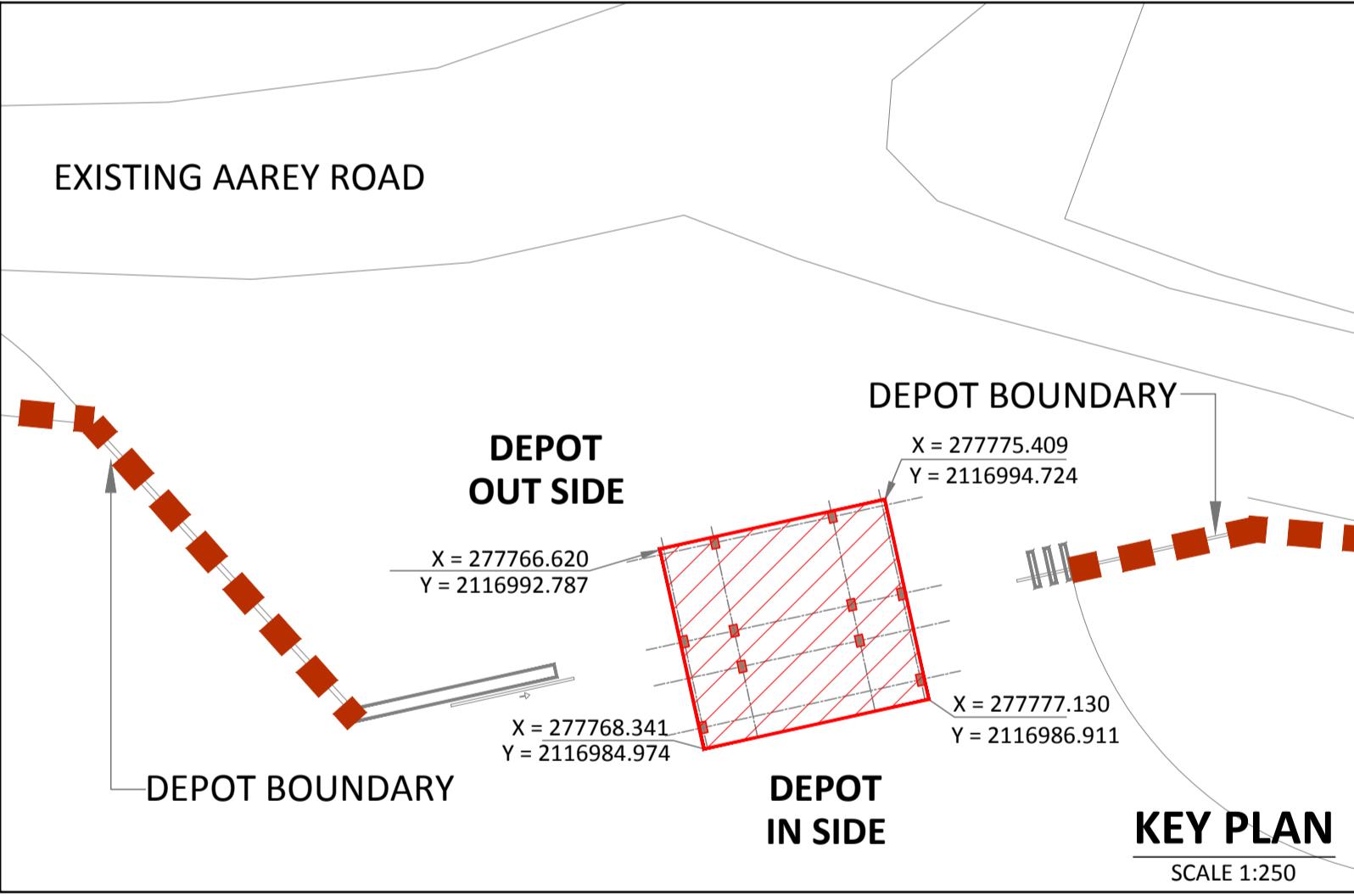
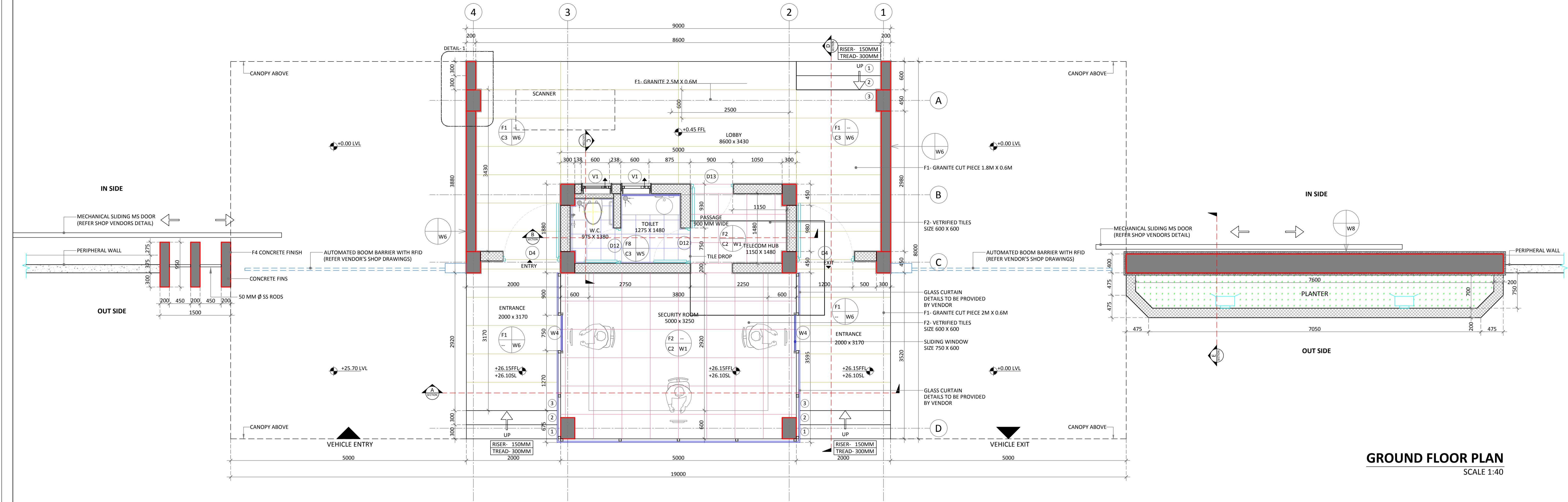
**MAINTENANCE WORKSHOP & CENTRAL STORE BUILDING ELEVATIONS**

Drawing No. : MML-3-CBS/MMRC/IC/DEP/AR/1008 Rev. DWG Status  
R1 D

P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing

CAD File Name : MML-3-CBS/MMRC/IC/DEP/AR/1008.dwg

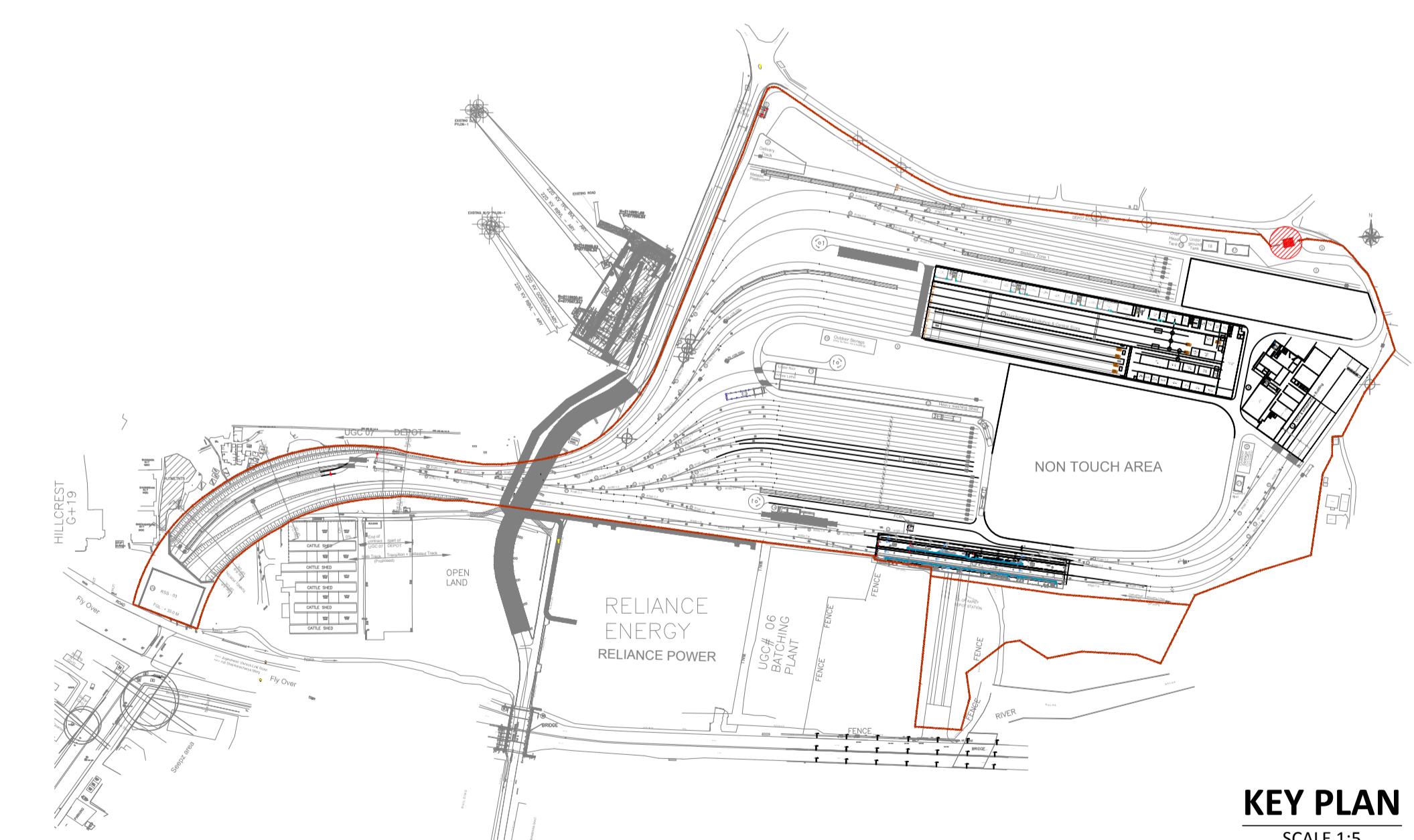




FLOORING		WALLS		CEILING	
NAME	CODE	NAME	CODE	NAME	CODE
GRANITE	F1	ACRYLIC		W1	CALCIUM SILICATE
VETRIFIED TILES	F2	OBD		W2	ALUMINIUM PANELS
RAISED ACCESS FLOOR	F3	GRANITE		W3	OBD
MODULAR WOOLEN CARPET	F4	SOUNDPROOF PANELS		W4	
TRIMIX WITH EPOXY COATING	F5	CERAMIC		W5	
WOODEN FLOORING	F6	WEATHER PROOF PAINT		W6	
HARDENED FLOOR WITH EPOXY COATING	F7	ALUMINUM COMPOSITE PANEL		W7	
CERAMIC TILES	F8	SAND BLASTED GRANITE		W8	

DOOR			WINDOW						
TYPE	WIDTH	HEIGHT	MATERIAL	TOTAL	TYPE	WIDTH	HEIGHT	MATERIAL	TOTAL
D4	1200	2400	WOOD	2	V1	600	600	AL + GLASS	2
D13	900	2400	WOOD	1	W4	750	600	AL + GLASS	2
D12	750	2400	WOOD	2					

AREA	
ROOM	AREA IN SQ.M.
SECURITY ROOM	17.33 SQ.M.
TOILET	3.41 SQ.M.
TELECOM HUB	3.33 SQ.M.
OTHER	42.82 SQ.M.



REFERENCE DRAWINGS :-  
X-REF FILES :-  
NOTES :-

FOR INFORMATION ONLY

General Consultants :  
**maple**  
Mumbai Metro Line-3  
GENERAL CONSULTANT

Notification :  
 A    B    C

As noted in the DSR No. \_\_\_\_\_  
dated \_\_\_\_\_

A : Objection. A complete resubmission is required.  
B : No Objection with comments.  
C : Notice of No objection.

Assessor

Discipline Leader

Engineer

2

1.3.2018

SP

COMMENTS ON R1 ADDRESSED

1

22.12.2017

SP

COMMENTS ON R0 ADDRESSED

--

--

--

Rev.

Date

Drawn

Description

Designed

Checked

Approved

AK

KT

SC

AK

KT

SC

AS SHOWN (A1)

Drawn : SP

Signature

Date :

1.03.2018

IC / Detailed Design Consultant :

**P&DECO**   **AECOM**

P&DECO Co., Ltd  
Shri Chhatrapati Bhg.  
G-17-19 Shimbavi,  
Mumbai - 400 081  
India  
Tel: +91-22-4830100  
Fax: +91-22-4830173  
THE Louis Berger Group, Inc., USA  
801 Indiana, Tower C,  
Gurgaon - 122 002, Haryana - India  
Tel: +91-124-4830100  
Fax: +91-124-4830173  
1250 23rd St. NW  
Washington, DC 20037  
A-415/16, Kharooor City,  
Kurla (W), Mumbai 400088  
India

Drawing Title :

**AAREY DEPOT**

**ACCESS CONTROL BUILDING -1**

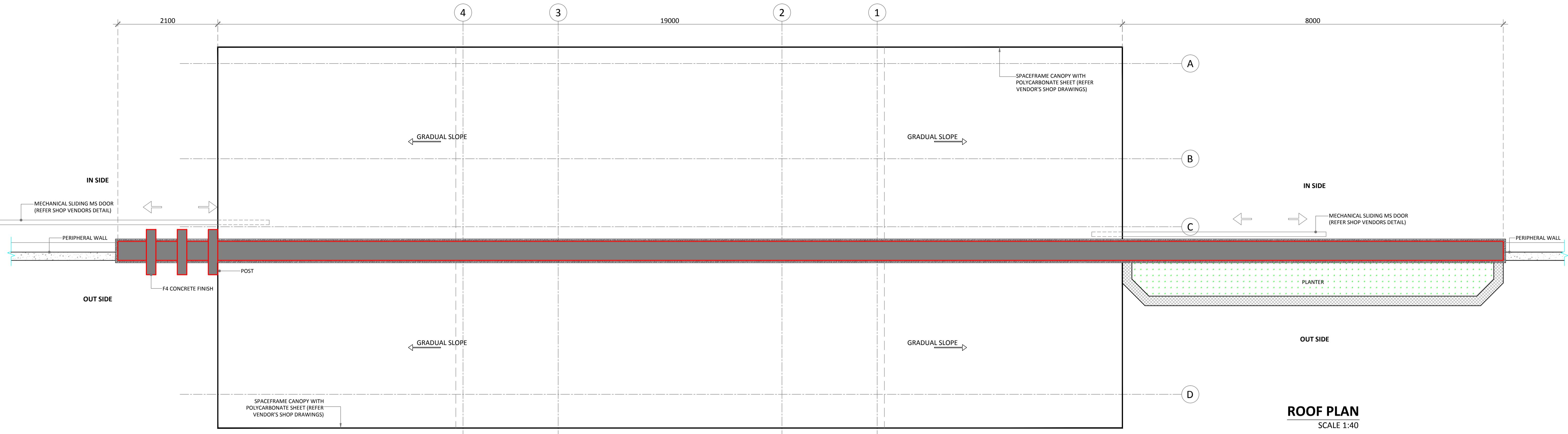
**GROUND FLOOR PLAN**

Drawing No. : **MML-3-CBS/MMRC/IC/DEP/AR/601** Rev. **R2** DWG Status **D**

P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing

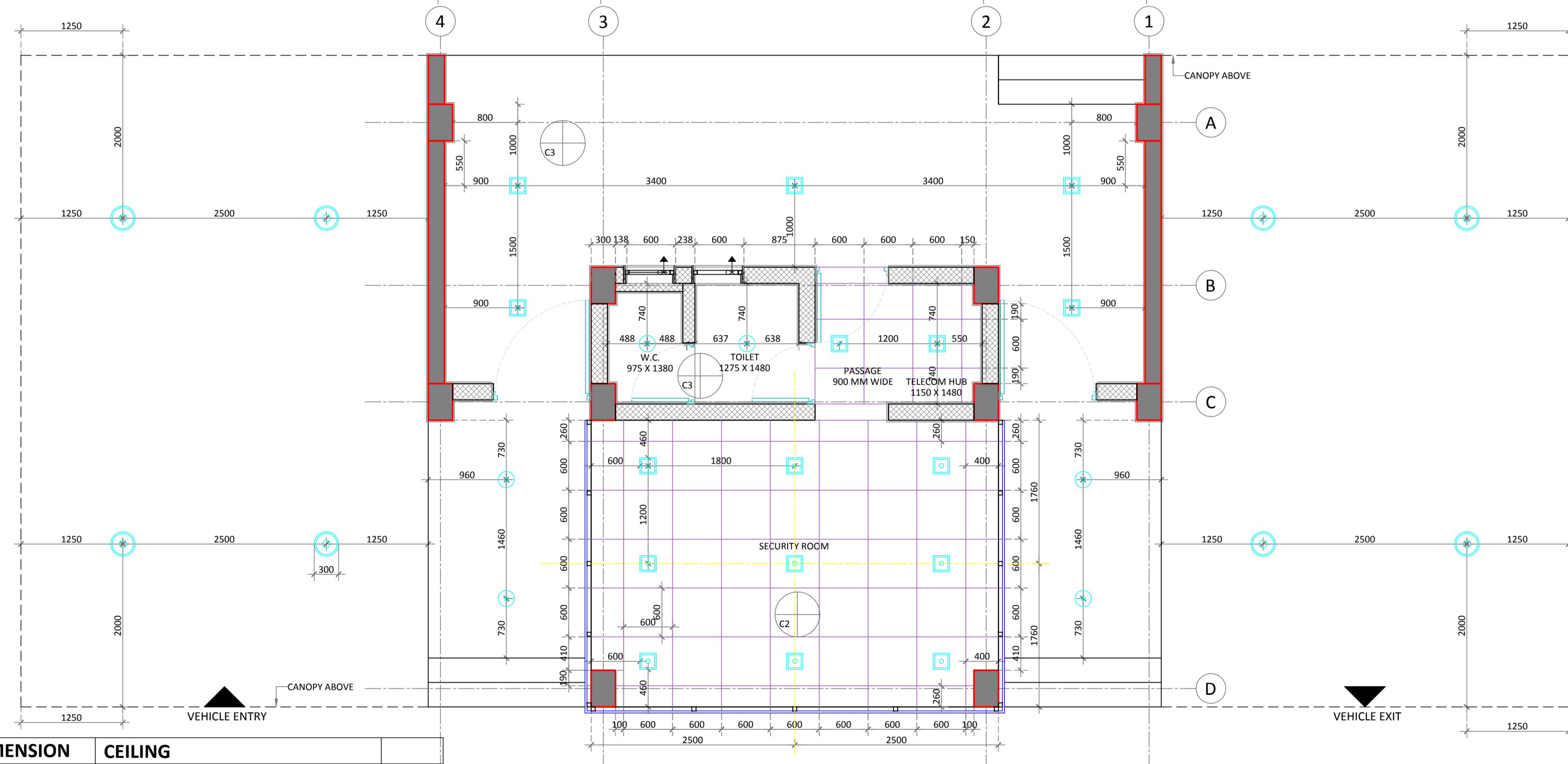
CAD File Name : **ACCESS CONTROL 1.DWG**

Page 55



**ROOF PLAN**

SCALE 1:40



**CEILING PLAN**

SCALE 1:40

LEGENDS:-	DIMENSION	CEILING	NAME	CODE
(○) SURFACE LIGHT	6 NOS.	Ø200	NAME	CODE
(□) CONCEALED LIGHT	16 NOS.	200 X 200	CALCIUM SILICATE	C1
(○) SURFACE MOUNTED	8 NOS.	Ø300	ALUMINIUM PANELS	C2
(Lamp) FOCUS LIGHT	2 NOS.	400 X 200	OBD	C3

REFERENCE DRAWINGS :-

FOR INFORMATION ONLY



MUMBAI METRO LINE - 3

GENERAL CONSULTANT

Notification :

A     B     C

As noted in the DSR No. \_\_\_\_\_ dated \_\_\_\_\_

A : Objection. A complete resubmission is required.

B : No Objection with comments.

C : Notice of No objection.

Assessor Discipline Leader Engineer

2 1.3.2018 SP COMMENTS ON R1 ADDRESSED

1 22.12.2017 SP COMMENTS ON R0 ADDRESSED

-- -- --

Rev. Date Drawn

Description

Designed Checked Approved

AK KT SC

AK KT SC

AS SHOWN (A1)

Drawn : SP

Date : 1.3.2018

IC / Detailed Design Consultant :

P&DECO

P&DECO Co. Ltd

Shri Chhatrapati Bhg

6-17-19 Shinbashi

Minato-ku

Tokyo 105-0012 Japan

Tel +81-3-5733-0855

Fax +81-3-5733-0856

AECOM

AECOM

8/F, Infra Power C

Gurgaon - 122 002, Haryana - India

Tel +91 124 4830100

Fax +91 124 4830173

THE Louis Berger Group, Inc., USA

Engineers • Planners • Scientists • Economists

1250 23rd St. NW

A-15/16, Kharoo City,

Washngtn, DC 20037, USA

Kurla (W), Mumbai 400088, India

MMRC

MMRC

8/F, Infra Power C

Gurgaon - 122 002, Haryana - India

Tel +91 124 4830100

Fax +91 124 4830173

Engineers • Planners • Scientists • Economists

1250 23rd St. NW

A-15/16, Kharoo City,

Washngtn, DC 20037, USA

Kurla (W), Mumbai 400088, India

MUMBAI METRO RAIL CORPORATION LTD.

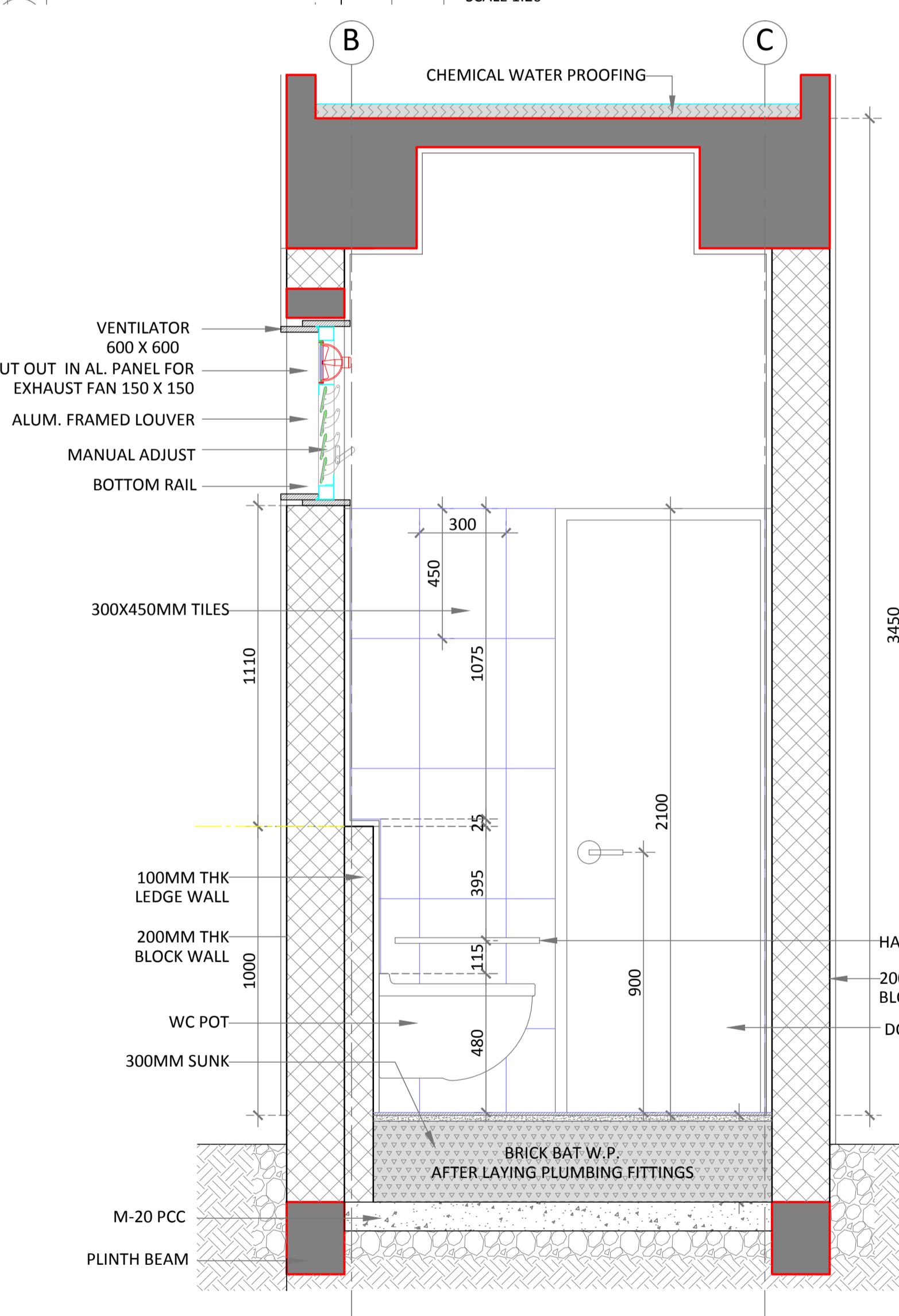
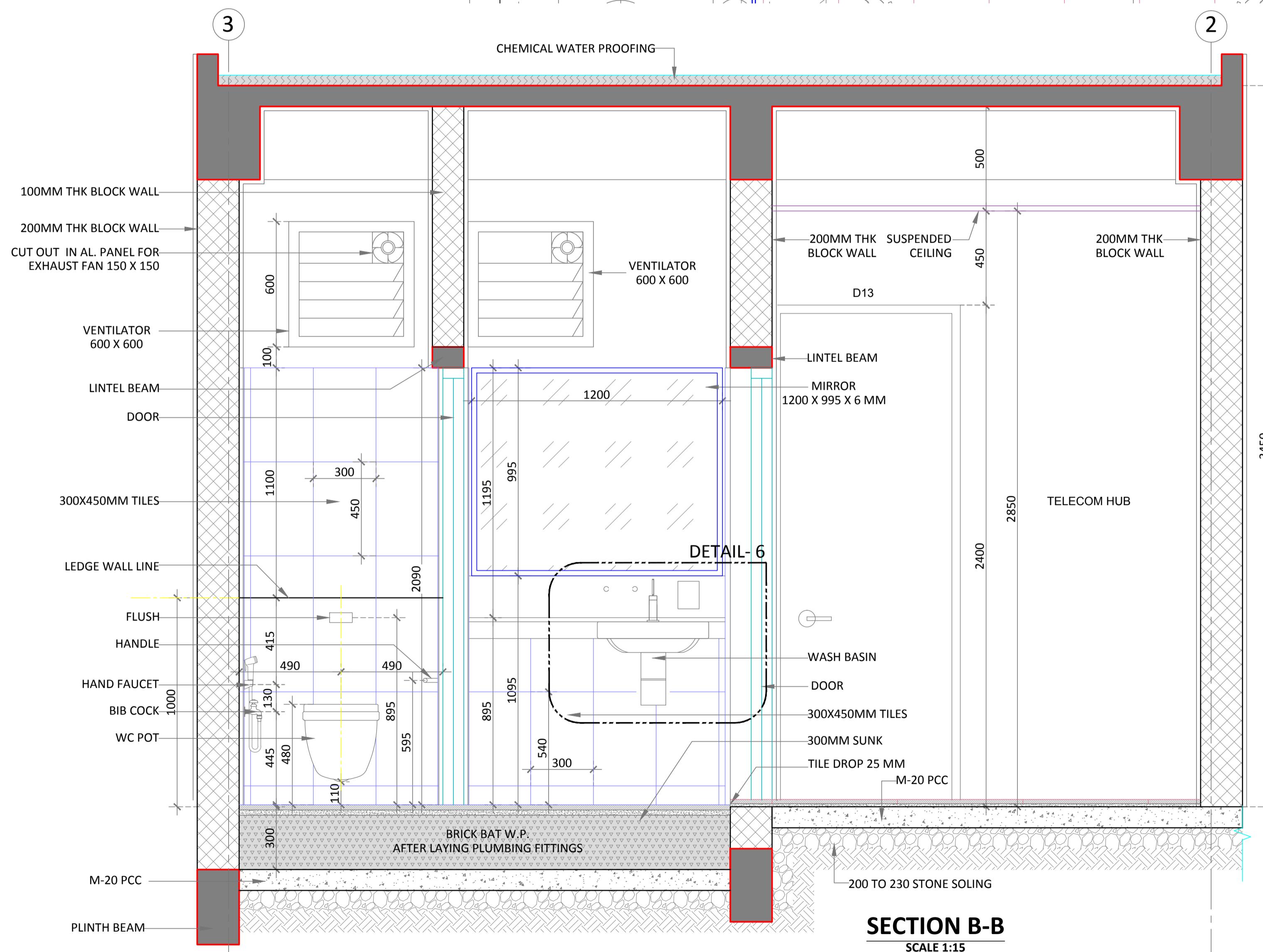
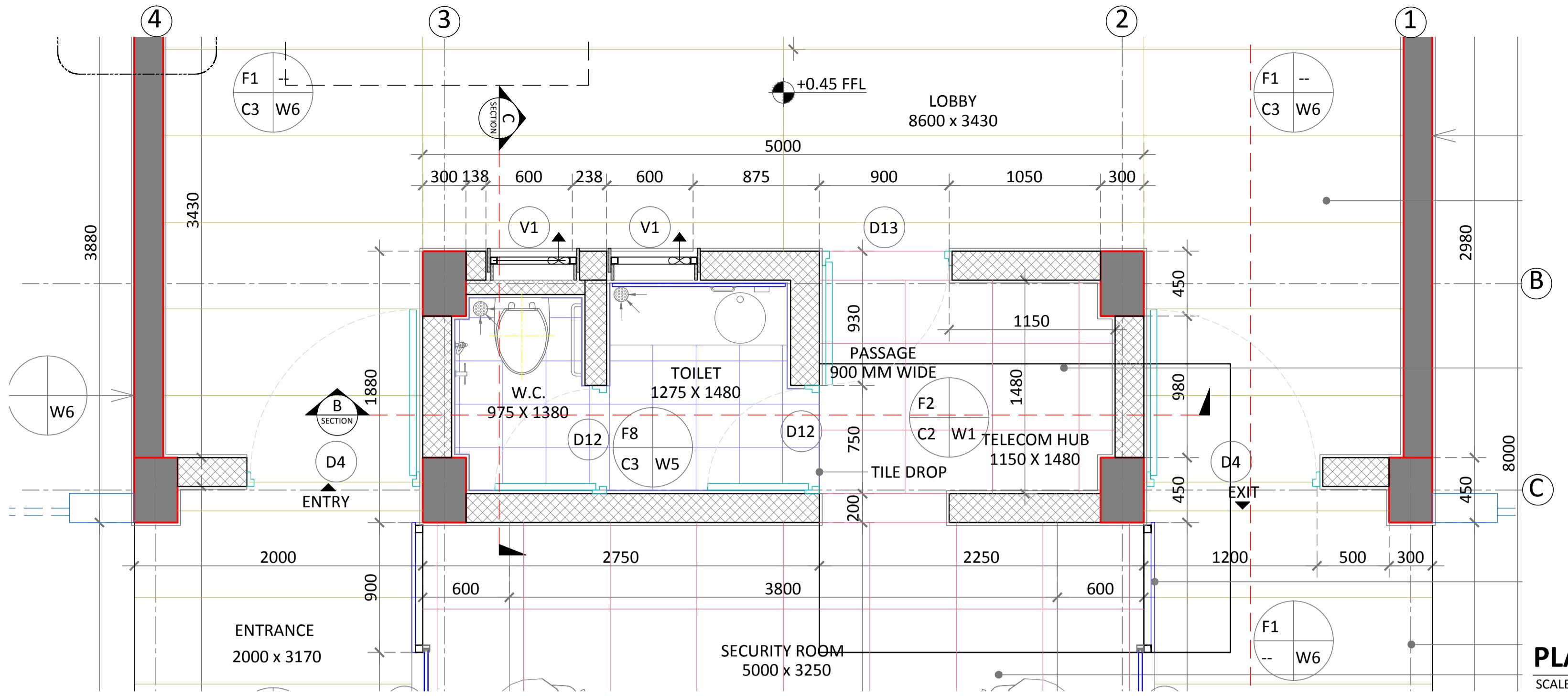
Namitr Building, Plot No. R-13, 'E'- Block,  
Bandra Kuria Complex, Bandra (East), Mumbai 400051.

Drawing Title :  
**AAREY DEPOT**  
**ACCESS CONTROL BUILDING -1**  
**ROOF & CEILING PLAN**

Drawing No. : MML-3-CBS/MMRC/IC/DEP/AR/602 Rev. R2 DWG Status D

P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing

CAD File Name : ACCESS CONTROL 1.DWG Page 56



REFERENCE DRAWINGS :-

X-REF FILES :-

NOTES :-

FOR INFORMATION ONLY

General Consultants :  
**maple**  
MUMBAI METRO LINE-3  
GENERAL CONSULTANT

Notification :  
 A     B     C  
 As noted in the DSR No. \_\_\_\_\_ dated \_\_\_\_\_

A : Objection. A complete resubmission is required.  
 B : No Objection with comments.  
 C : Notice of No objection.

Assessor Discipline Leader Engineer  
 2 1.3.2018 SP COMMENTS ON R1 ADDRESSED  
 1 22.12.2017 SP COMMENTS ON R0 ADDRESSED  
 -- -- --

Rev. Date Drawn

SC  
AK KT SC  
AK KT SC  
AS SHOWN (A1)

Description

IC / Detailed Design Consultant :

**P&DECO**

P&DECO Co., Ltd  
8F, Infra Tower C,  
Shin-Ochanomizu Bldg,  
Minato-ku,  
Tokyo 102-0026 Japan  
Tel: +81-3-5733-0855  
Fax: +81-3-5733-0856

**AECOM**

8F, Infra Tower C,  
Shin-Ochanomizu Bldg,  
Minato-ku,  
Tokyo 102-0026 Japan  
Tel: +81-3-5733-0855  
Fax: +81-3-5733-0856

**THE Louis Berger Group, Inc., USA**

DLF Cyber City, DLF Phase-II,  
Gurgaon - 122 002, Haryana - India  
Tel: +91 124 439100  
Fax: +91 124 439175

**MUMBAI METRO RAIL CORPORATION LTD.**  
Namitr Building, Plot No. R-13, 'E'- Block,  
Bandra Kurla Complex, Bandra (East), Mumbai 400051.

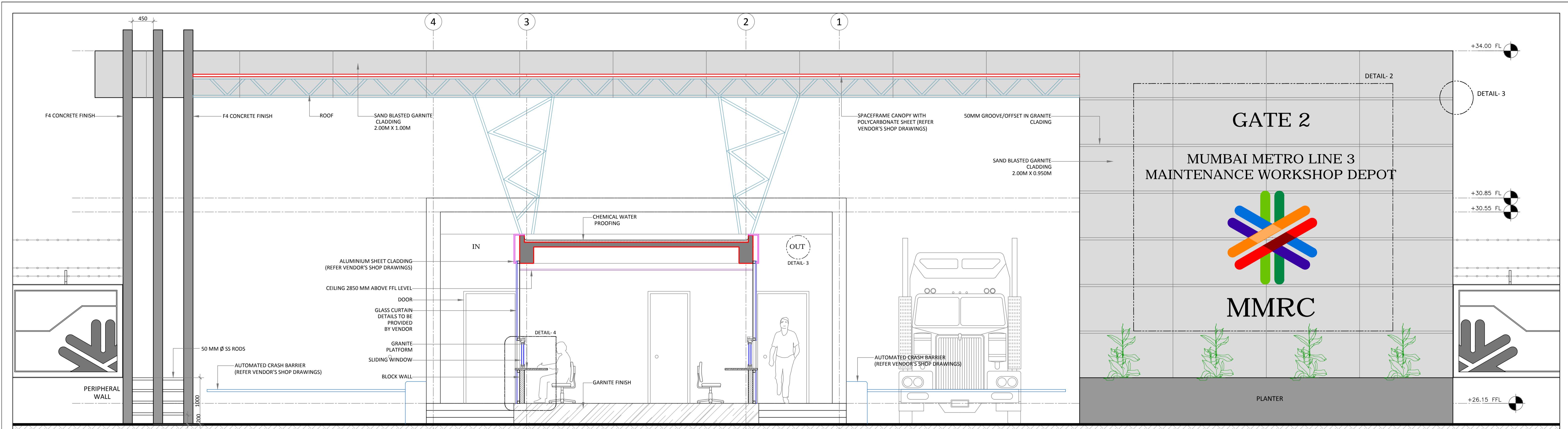
Drawing Title :  
**AAREY DEPOT**  
**ACCESS CONTROL BUILDING -1**  
**TOILET PLAN AND SECTIONS**

Drawing No. : **MML-3-CBS/MMRC/IC/DEP/AR/603** Rev. **R2** DWG Status **D**

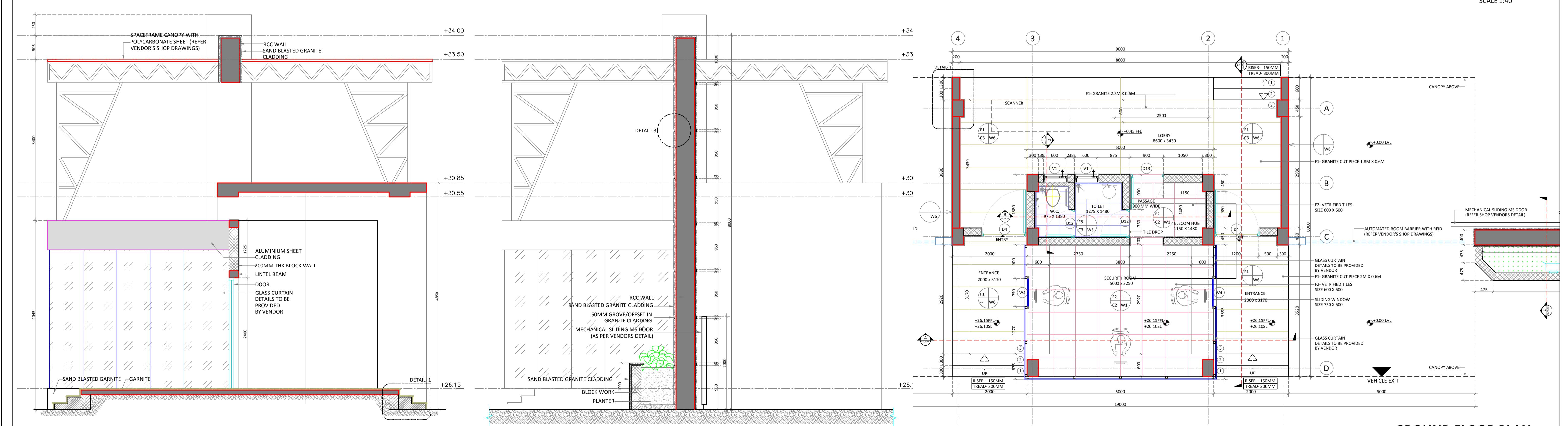
P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing

CAD File Name : **ACCESS CONTROL 1.DWG**

Page 57



SECTION A-A  
SCALE 1:40



GROUND FLOOR PLAN  
SCALE 1:50

SECTION D-D  
SCALE 1:40

FOR INFORMATION ONLY

General Consultants :  
**maple**  
MUMBAI METRO LINE-3  
GENERAL CONSULTANT

Notification :

A     B     C

As noted in the DR No. \_\_\_\_\_  
dated \_\_\_\_\_

A : Objection. A complete resubmission is required.  
B : No Objection with comments.  
C : Notice of No objection.

SECTION E-E  
SCALE 1:40

IC / Detailed Design Consultant :

**P&DECO**

P&DECO Co., Ltd  
Shri Chhatrapati Bhg.  
6-17-19 Shinbashi,  
Minato-ku  
Tokyo 105-0012 Japan  
Tel: +81-3-5733-0855  
Fax: +81-3-5733-0856

**AECOM**

8/F, Infra Power C,  
DLF Cyber City, DLF Phase-II,  
Gurgaon - 122 002, Haryana - India  
Tel: +91 124 483100  
Fax: +91 124 4831073

**THE Louis Berger Group, Inc., USA**

Engineers • Planners • Scientists • Economists  
1250 23rd St. NW  
Washington, DC 20037  
A-415/16, Khar (W), Mumbai 400098  
India

**MMRC**

Drawing Title :  
**Mumbai Metro Line – 3**  
Detailed Design Consultancy and Construction for  
Depot of Underground MML – 3

**MUMBAI METRO RAIL CORPORATION LTD.**

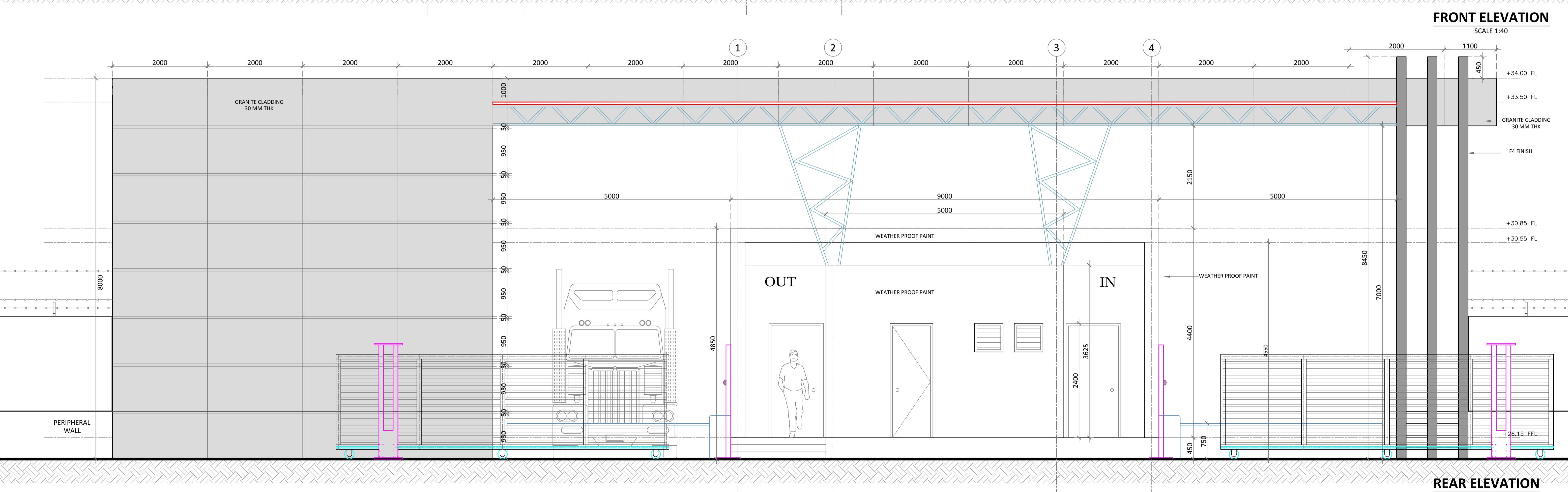
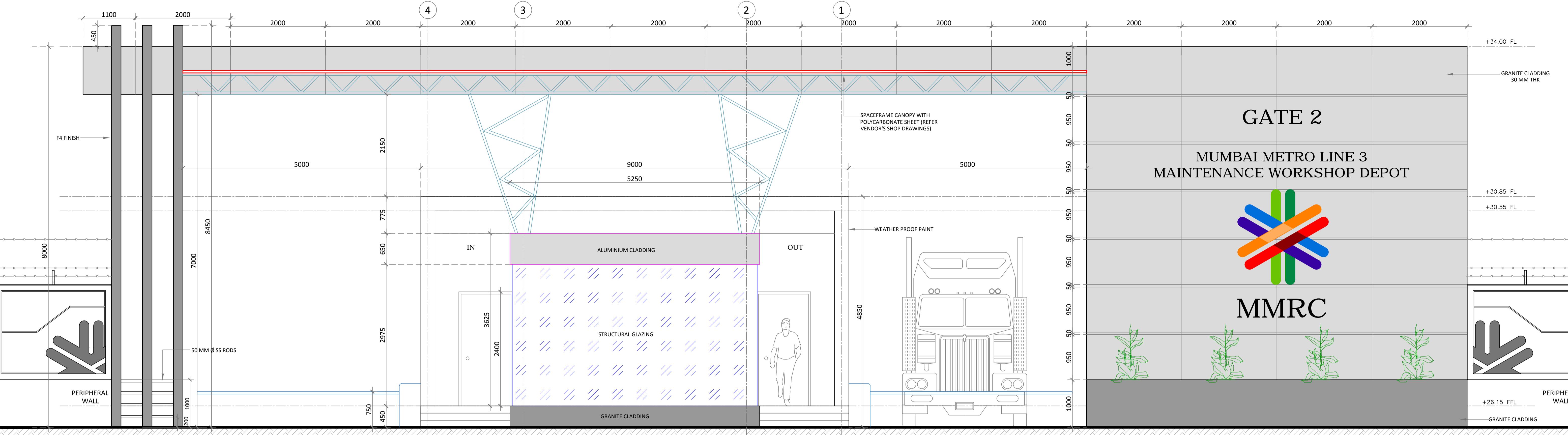
Namitr Building, Plot No. R-13, 'E' Block,  
Bandra Kurla Complex, Bandra (East), Mumbai 400051.

Drawing Title :  
**AAREY DEPOT**  
**ACCESS CONTROL BUILDING -1**  
SECTIONS

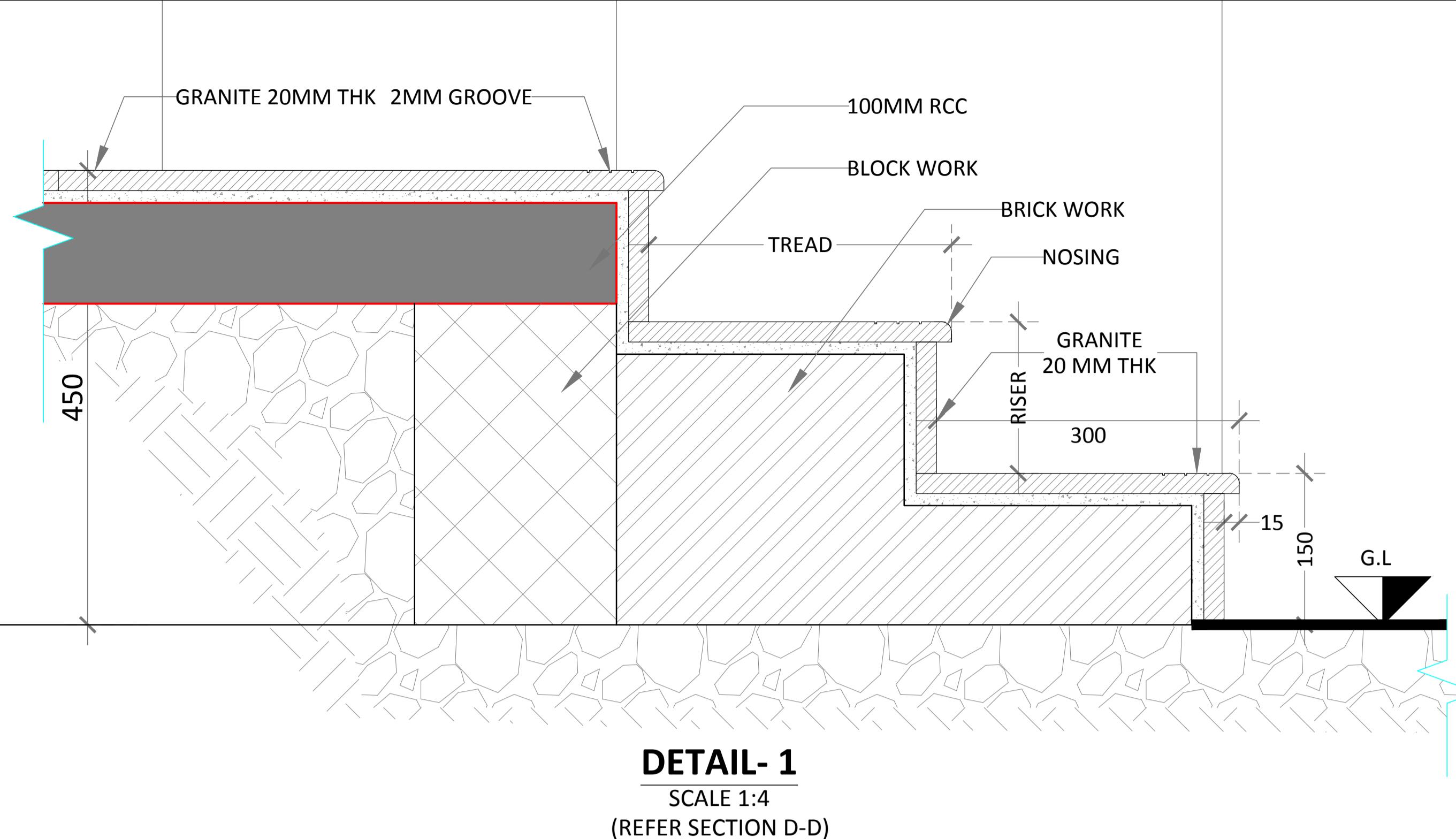
Drawing No. : **MML-3-CBS/MMRC/IC/DEP/AR/604** Rev. **R2** DWG Status **D**

P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing

CAD File Name : **ACCESS CONTROL 1.DWG**



REFERENCE DRAWINGS :-			FOR INFORMATION ONLY			IC / Detailed Design Consultant :			MUMBAI METRO RAIL CORPORATION LTD.			
X-REF FILES :-			General Consultants : <b>maple</b> MUMBAI METRO LINE-3 GENERAL CONSULTANT			<b>P&amp;DECO</b> P&DECO Co., Ltd Shin-Osaka Bldg 6-17-19 Shinbashi, Minato-ku Tokyo 105-0012 Japan Tel: +81-3-5733-0855 Fax: +81-3-5733-0856			<b>AECOM</b> 8/F, Infra Power C, Shin-Osaka Bldg 6-17-19 Shinbashi, Minato-ku Tokyo 105-0012 Japan Tel: +91 124 4830100 Fax: +91 124 4830173			<b>THE Louis Berger Group, Inc., USA</b> DLF Cyber City, DLF Phase-II, Gurgaon - 122 002, Haryana - India A-415/16, Kohinoor City, Washington, DC 20037, Kurla (W), Mumbai 400088 India
NOTES :-			Notification : <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C			As noted in the DSR No. _____ dated _____			Drawing Title : <b>AAREY DEPOT</b> <b>ACCESS CONTROL BUILDING -1</b> <b>ELEVATIONS</b>			
A : Objection. A complete resubmission is required. B : No Objection with comments. C : Notice of No objection.			Comments on R1 Addressed Comments on R0 Addressed			Designed : AK   Checked : KT   Approved : SC			Drawing No. : <b>MML-3-CBS/MMRC/IC/DEP/AR/605</b> Rev. <b>R2</b> DWG Status <b>D</b>			
Assessor Discipline Leader Engineer			2 1.3.2018 SP COMMENTS ON R1 ADDRESSED			AK KT SC			P=Preliminary, D=Definitive, C=Construction Reference, W=Working Drawing			
-- -- --			1 22.12.2017 SP COMMENTS ON R0 ADDRESSED			AK KT SC			Scale : AS SHOWN (A1)   Drawn : SP   Date : 1.3.2018			
Rev. Date Drawn			Description			Designed Checked Approved			CAD File Name : <b>ACCESS CONTROL 1.DWG</b>			

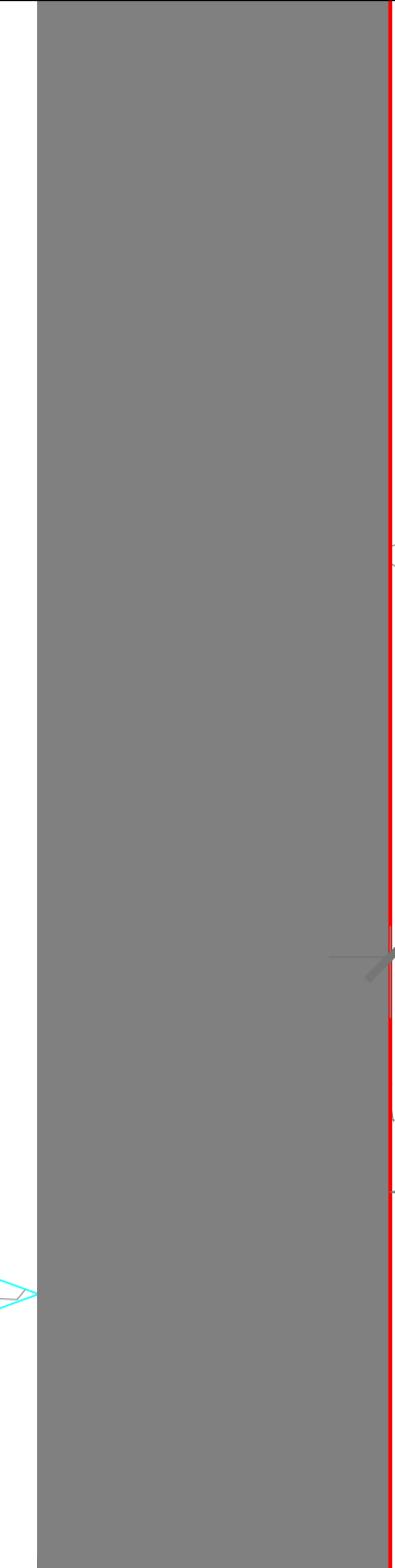


# **DETAIL- 1**

---

**SCALE 1:4**

**(REFER SECTION D-D)**

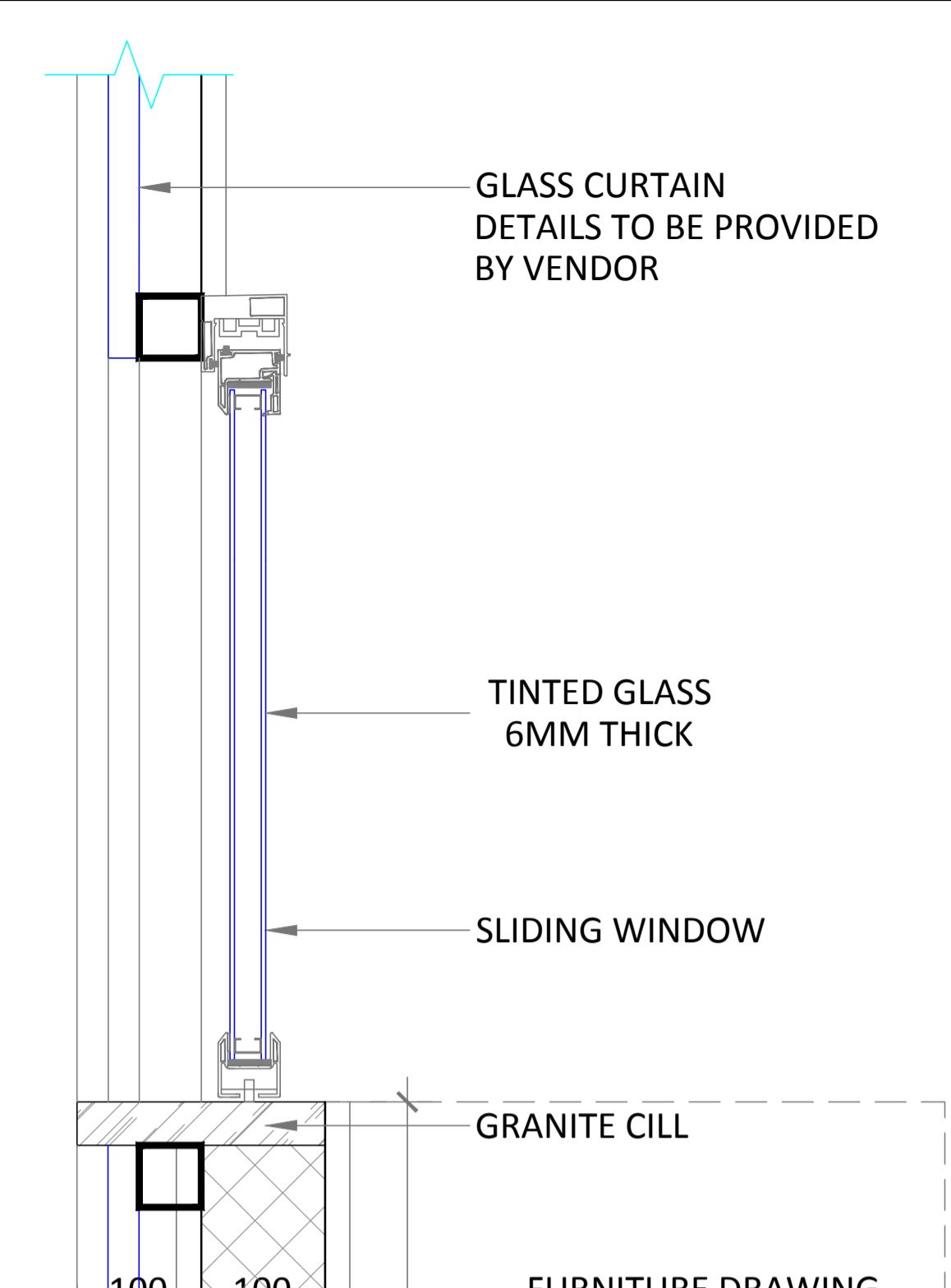


**DETAIL- 3**

---

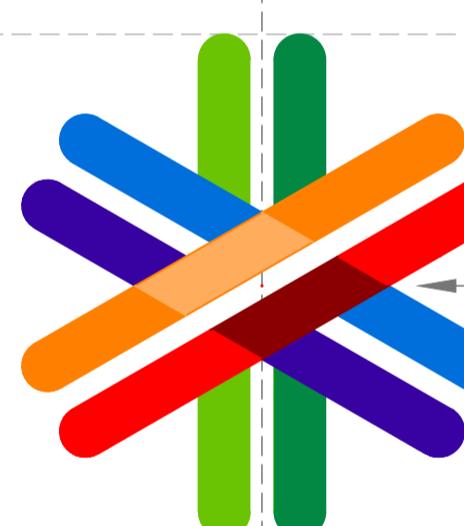
SCALE 1:1

(REFER SECTION E-E')

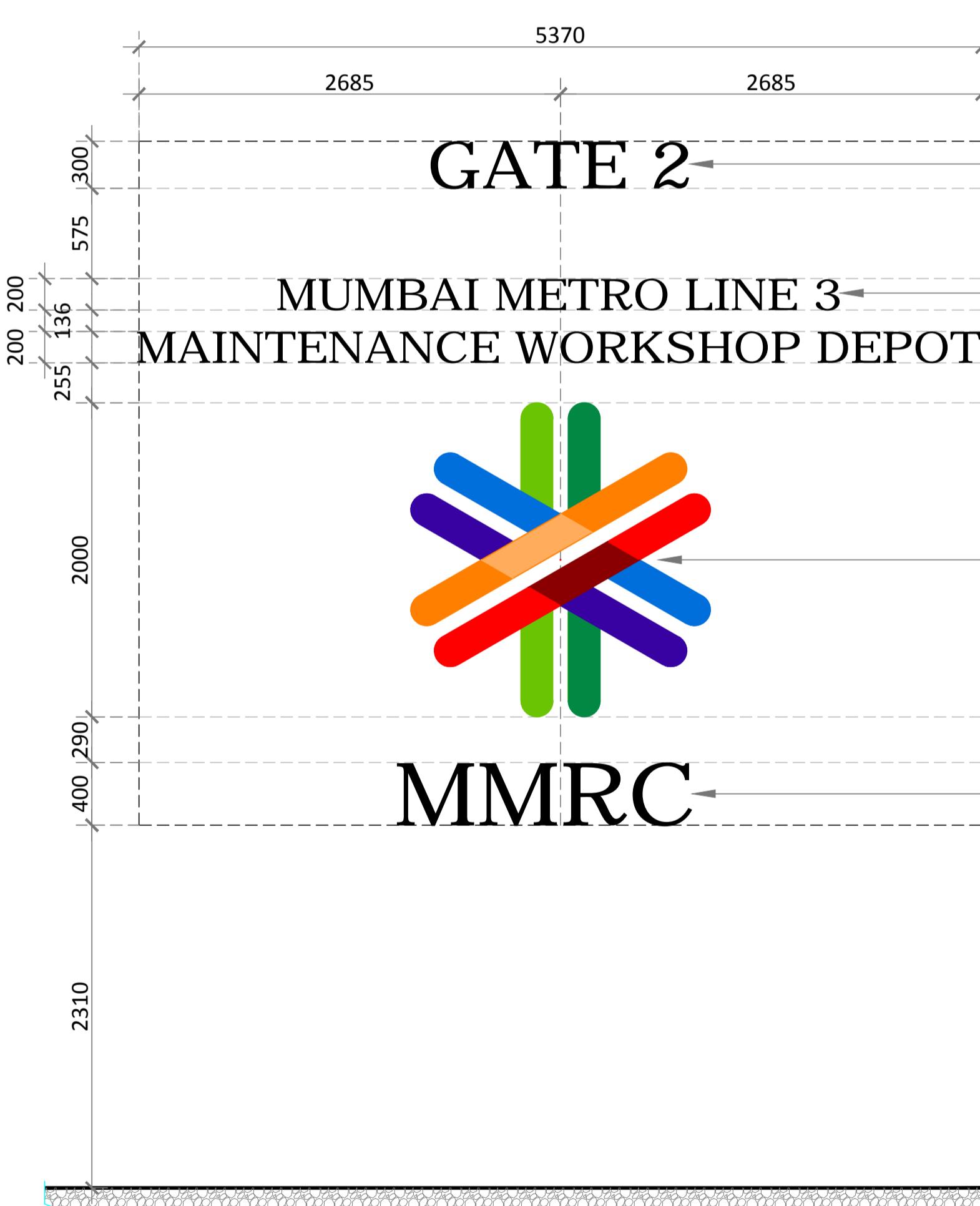


# GATE 2

# MUMBAI METRO LINE 3 MAINTENANCE WORKSHOP DEPOT



# MMRC



**DETAIL- 2**

---

**SCALE 1:30**

**(REFER SECTION A-A)**

## **REFERENCE DRAWINGS :-**

## X-REF FILES :-

FOR INFORMATION



**TION ONLY** General Consultants :  ma  
MUMBAI MELA

 GENERAL CONSULT

A       B  
As noted in the DSR No. \_\_\_\_\_

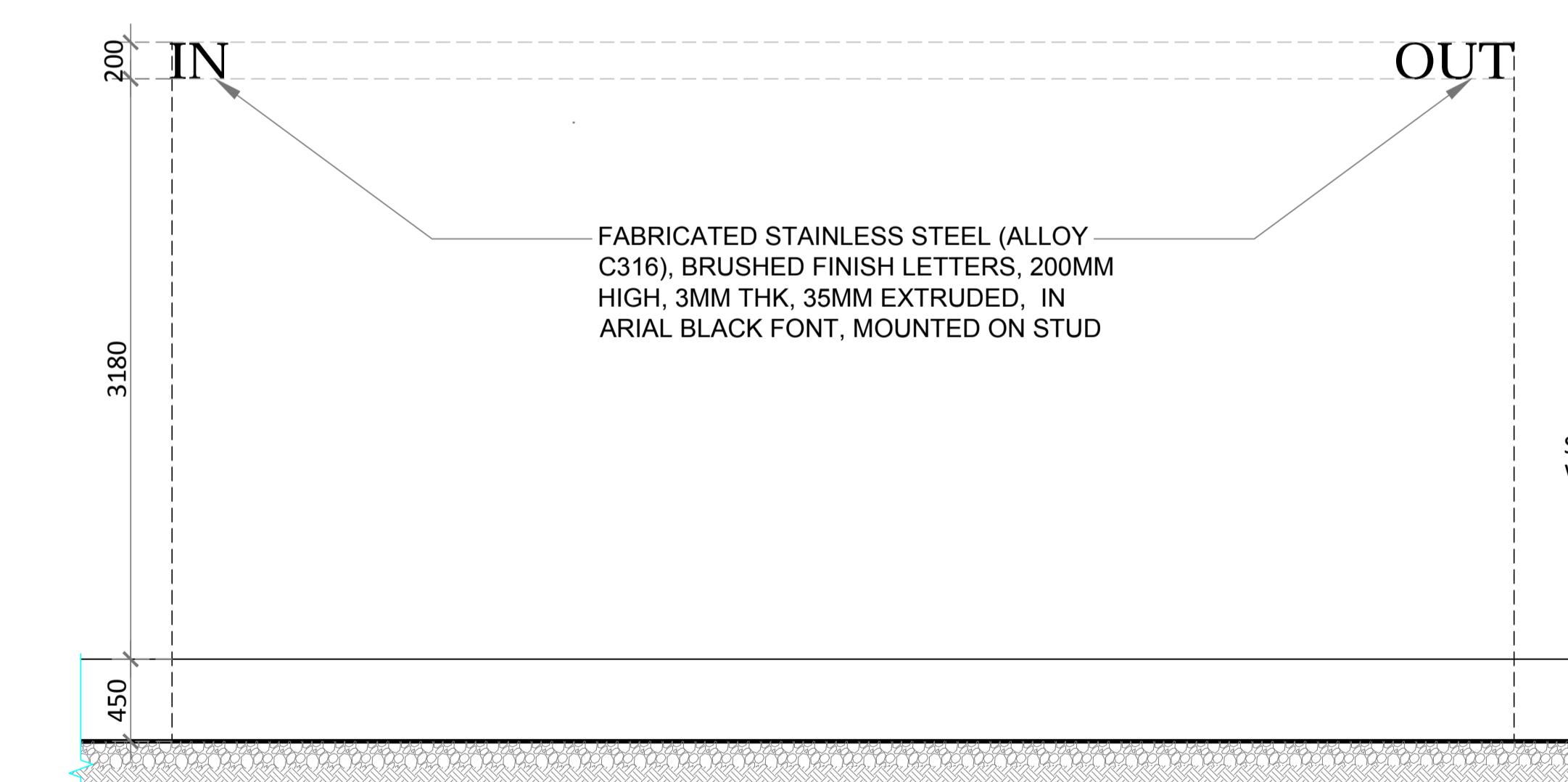
dated \_\_\_\_\_

B : No Objection with comments.  
C : Notice of No objection.

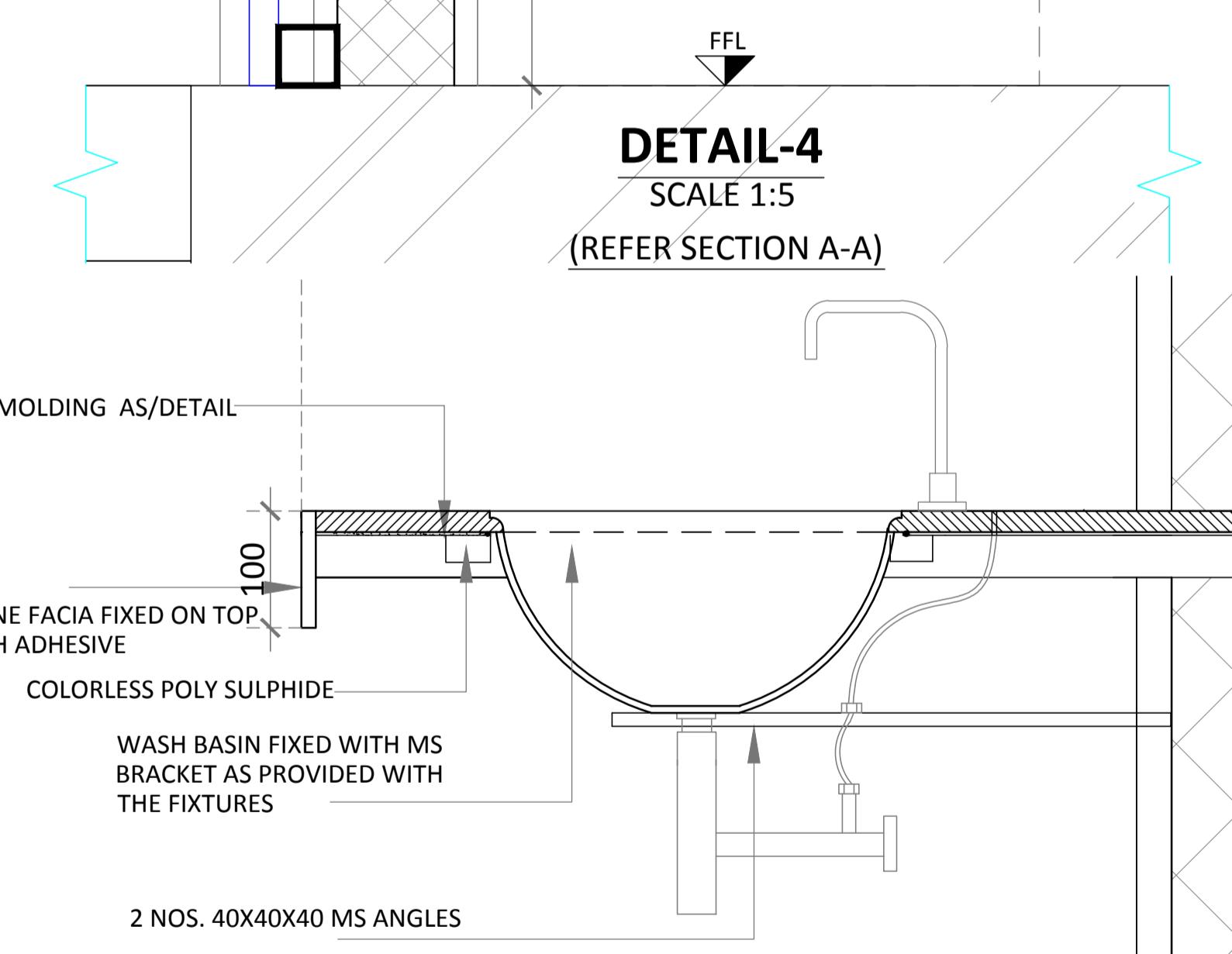
Assessor	Discipline Leader

-----

Digitized by srujanika@gmail.com



**DETAIL- 5**



**DETAIL-6**

---

SCALE 1:5

REFER SECTION B-B

# **METRO RAIL CORPORATION LTD**

Namttri Building, Plot No. R-13, 'E'- Block,

Bandra Kurla Complex, Bandra (East), Mumbai 400051.

---

# AAREY DEPOT

## ACCESS CONTROL BUILDING -1

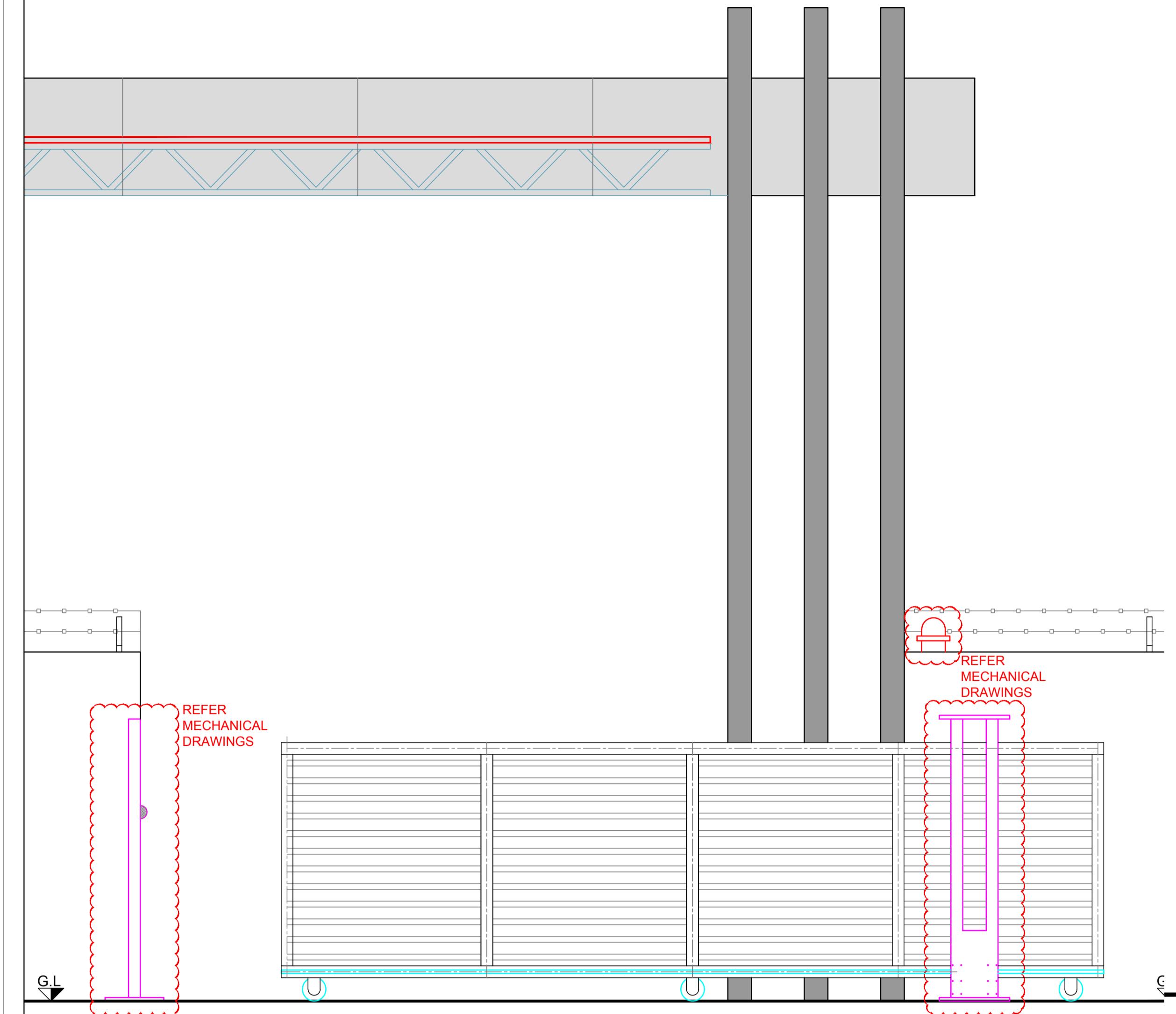
### DETAILS

## REFERENCES

**MML-3-CBS/MMRC/IC/DEP/AR/606** Rev. **R2** DWG **D** Status

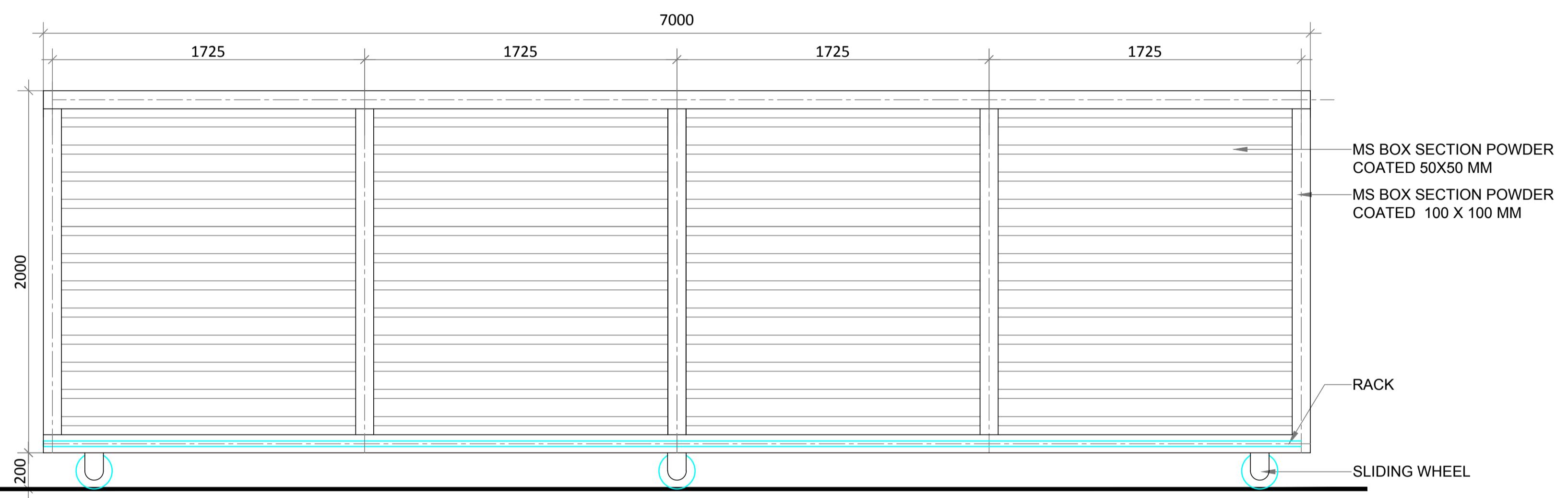
D-Definitive, C-Construction Reference, W-Working Drawing

: ACCESS CONTROL 1.DWG Page 60



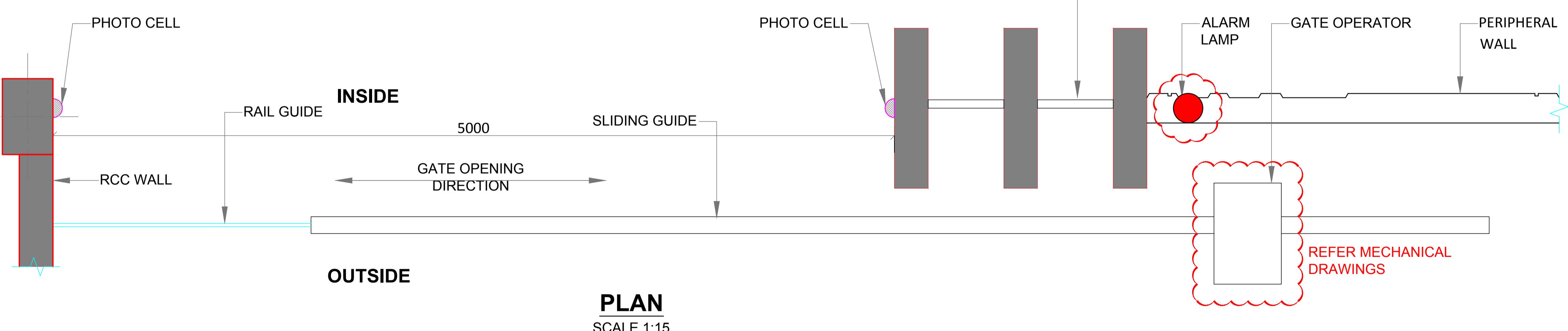
**ELEVATION**

SCALE 1:30



**MECHANICAL SLIDING GATE**

SCALE 1:20



**PLAN**

SCALE 1:15

REFERENCE DRAWINGS :-

FOR INFORMATION ONLY

General Consultants :  
**maple**  
MUMBAI METRO LINE-3  
GENERAL CONSULTANT

IC / Detailed Design Consultant :

**P&DECO**  
P&DECO Co., Ltd  
Shin-Osaka Bldg  
6-17-19 Shinbashi,  
Minato-ku  
Tokyo 105-0001  
Japan  
Tel: +81-3-5733-0855  
Fax: +81-3-5733-0856

**AECOM**  
AECOM  
8/F, Infra Tower C,  
DLF Cyber City, DLF Phase-II,  
Gurgaon - 122 002, Haryana – India

**THE Louis Berger Group, Inc., USA**  
Engineers • Planners • Scientists • Economists

Project Title : Mumbai Metro Line – 3  
Detailed Design Consultancy and Construction for  
Depot of Underground MML – 3

Designed : AK Checked : KT Approved : SC

Drawing No. : MML-3-CBS/MMRC/IC/DEP/AR/607 Rev. R2 DWG Status D

MUMBAI METRO RAIL CORPORATION LTD.  
Namitr Building, Plot No. R-13, 'E' – Block,  
Bandra Kurla Complex, Bandra (East), Mumbai 400051.

Drawing Title : AAREY DEPOT

ACCESS CONTROL BUILDING -1

MECHANICAL SLIDING GATE DETAILS

P=Preliminary, D=Definitive, C=Construction Reference, W=Working Drawing

CAD File Name : ACCESS CONTROL 1.DWG

Page 61

X-REF FILES :-

NOTES :-

1) SHOP DRAWINGS ENTIRE SET TO BE PROVIDED BY VENDOR.

Notification :  
 A    B    C  
 As noted in the DSR No. \_\_\_\_\_ dated \_\_\_\_\_  
 A : Objection. A complete resubmission is required.  
 B : No Objection with comments.  
 C : Notice of No objection.

Comments on R1 ADDRESSED

AK KT SC

Comments on R0 ADDRESSED

AK KT SC

AS SHOWN (A1)

Drawn : SP Date : 1.3.2018

Approved : SC

D

Assessor Discipline Leader Engineer

2 1.3.2018 SP

Comments on R1 ADDRESSED

AK KT SC

Comments on R0 ADDRESSED

AK KT SC

AS SHOWN (A1)

Drawn : SP Date : 1.3.2018

D

-- -- --

1 22.12.2017 SP

Comments on R0 ADDRESSED

AK KT SC

Comments on R0 ADDRESSED

AK KT SC

AS SHOWN (A1)

Drawn : SP Date : 1.3.2018

D

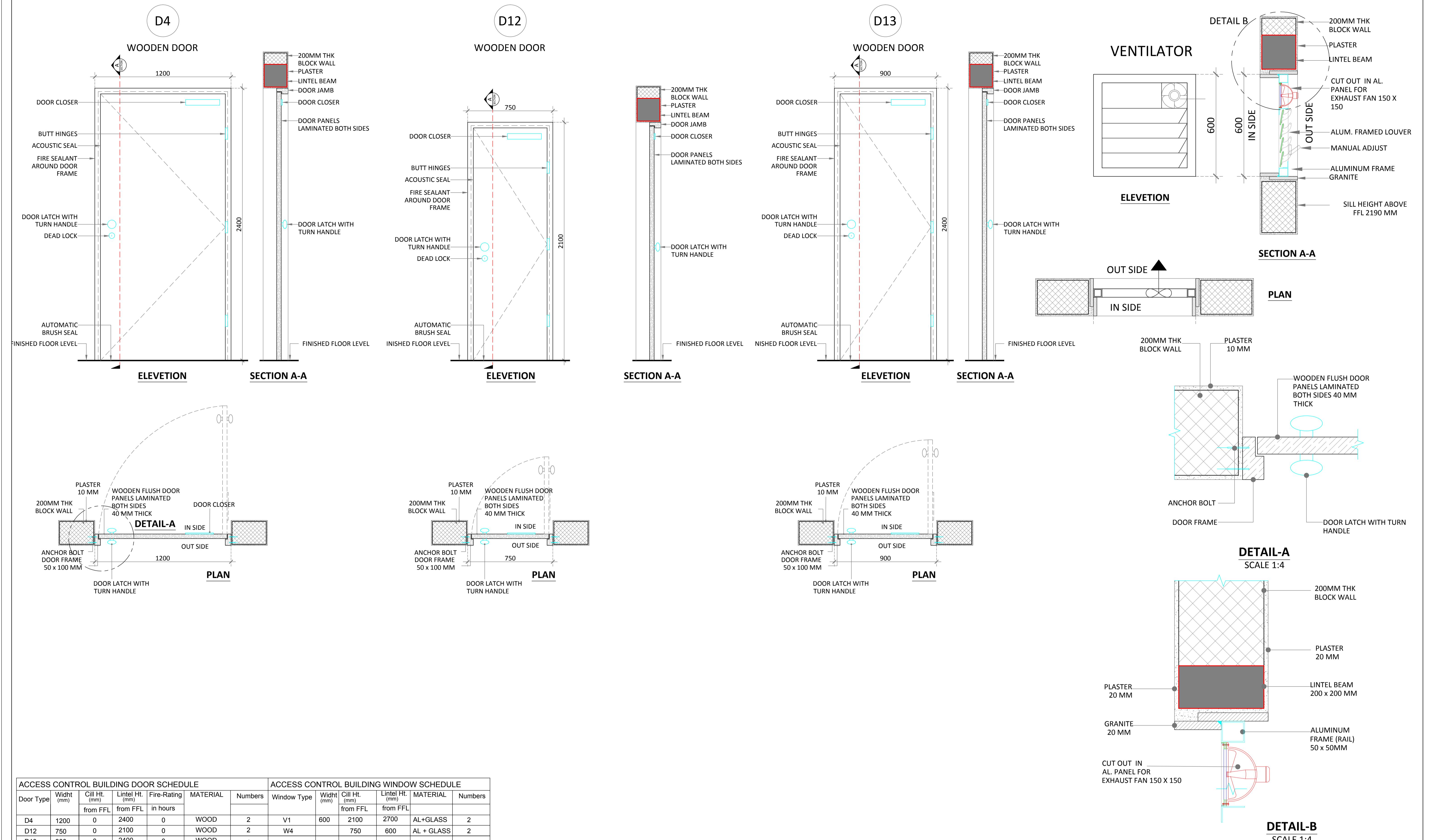
Rev. Date Drawn

Description

Designed Checked Approved

Drawn Checked Approved

D



ACCESS CONTROL BUILDING DOOR SCHEDULE					ACCESS CONTROL BUILDING WINDOW SCHEDULE								
Door Type	Width (mm)	Cill Ht. (mm)	Lintel Ht. (mm)	Fire-Rating from FFL	MATERIAL	Numbers	Window Type	Width (mm)	Cill Ht. (mm)	Lintel Ht. (mm)	MATERIAL	Numbers	
D4	1200	0	2400	0	WOOD	2	V1	600	2100	2700	AL+GLASS	2	
D12	750	0	2100	0	WOOD	2	W4		750	600	AL + GLASS	2	
D13	900	0	2400	0	WOOD	1							

REFERENCE DRAWINGS :-

FOR INFORMATION ONLY

General Consultants : **maple**  
MUMBAI METRO LINE-3  
GENERAL CONSULTANT

Notification :  A  B  C

As noted in the DR No. \_\_\_\_\_ dated \_\_\_\_\_

A : Objection. A complete resubmission is required.  
B : No Objection with comments.  
C : Notice of No objection.

Assessor

Discipline Leader

Engineer

2

1.3.2018

SP

COMMENTS ON R1 ADDRESSED

AK

KT

SC

--

1

22.12.2017

SP

COMMENTS ON R0 ADDRESSED

AK

KT

SC

Rev.

Date

Drawn

Description

Designed

Checked

Approved

1:15 (A1)

Drawn : SP

1.3.2018

IC / Detailed Design Consultant :

P&DECO

PL

AECON

AL

THE Louis Berger Group, Inc., USA

ENGRS • PLANNERS • SCIENTISTS • EXECUTIVES

DFC Cyber City, DLF Phase-II,

Gurgaon - 122 002, Haryana - India

Tel: +91 124 4830100

Fax: +91 124 4830173

1250 23rd St. NW

Washington, DC 20037

A-415/16, Kharooor City,

Kurla (W), Mumbai 400088

India

MMRC

MM

Mumbai Metro Rail Corporation Ltd.

Namitr Building, Plot No. R-13, 'E' Block,  
Bandra Kuria Complex, Bandra (East), Mumbai 400051.

Drawing Title : AAREY DEPOT

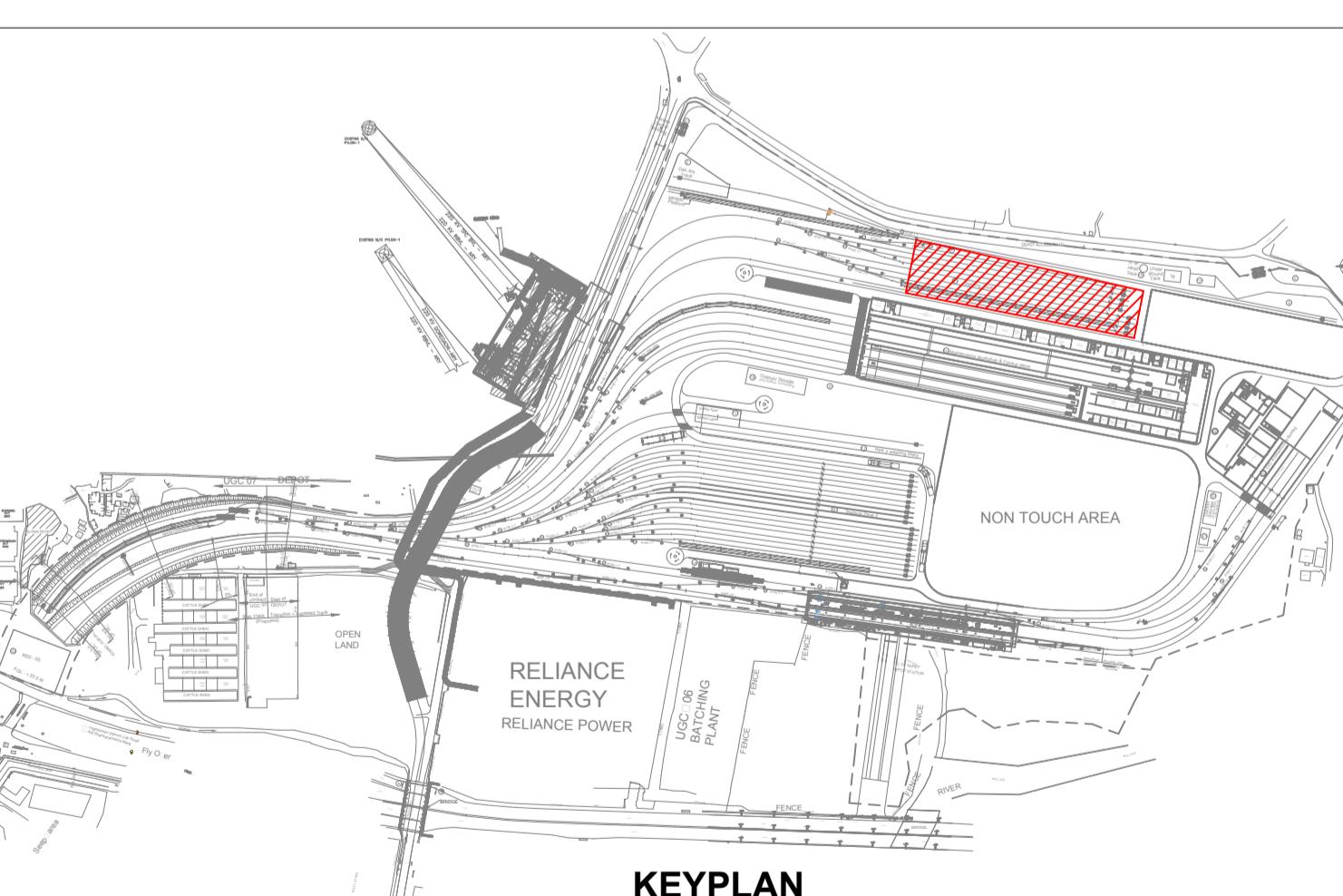
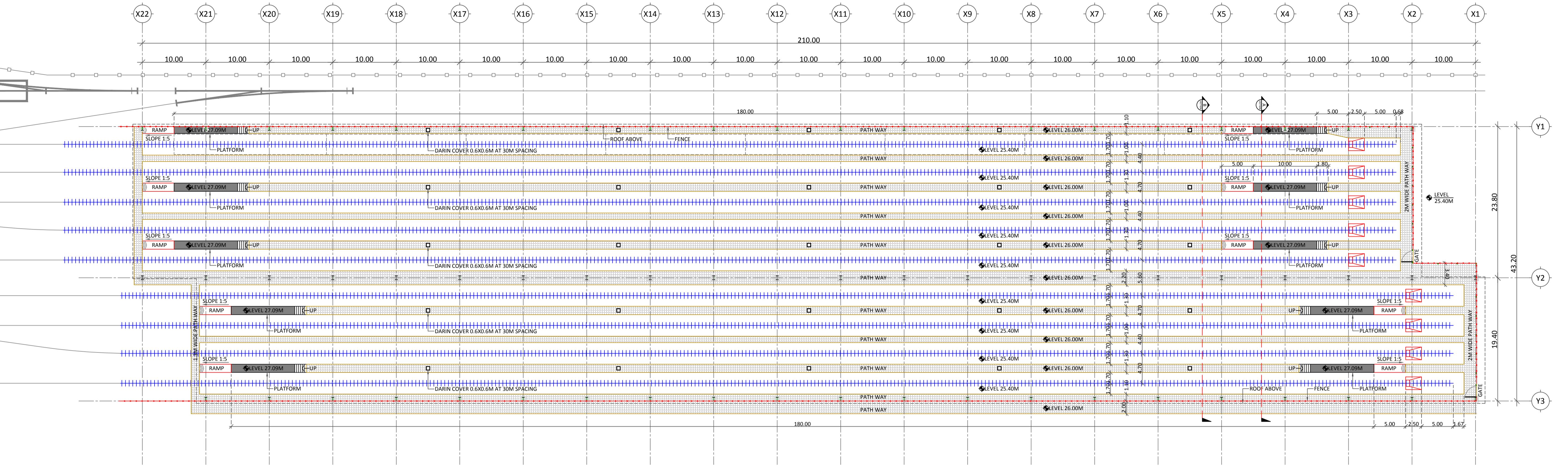
ACCESS CONTROL BUILDING -1

DOOR WINDOW DETAILS

Drawing No. : MML-3-CBS/MMRC/IC/DEP/AR/608 Rev. R2 DWG Status D

P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing

CAD File Name : ACCESS CONTROL 1.DWG Page 62


**LEGENDS:-**

	BUFFER STOP AS PER TRACK DRAWING DETAILS
	0.3X0.3M CHECKERED TILES
	2M HIGH CHAINLINK FENCING

**REFERENCE DRAWINGS :-**
**FOR INFORMATION ONLY**
**X-REF FILES :-**
**NOTES :-**


**Notification :**  
 A     B     C  
 As noted in the DSR No. \_\_\_\_\_ dated \_\_\_\_\_  
 A : Objection. A complete resubmission is required.  
 B : No Objection with comments.  
 C : Notice of No objection.

Assessor	Discipline Leader	Engineer	R2	12.02.2018	SP	COMMENTS ON R1 ADDRESSED	AK	KT	VS
--	--	--	R1	24.11.2017	SP	SHEDS PROVIDED	AK	KT	VS
			Rev.	Date	Drawn	Description	Designed	Checked	Approved

**IC / Detailed Design Consultant :**

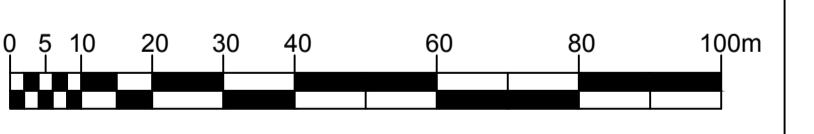
**AECOM**

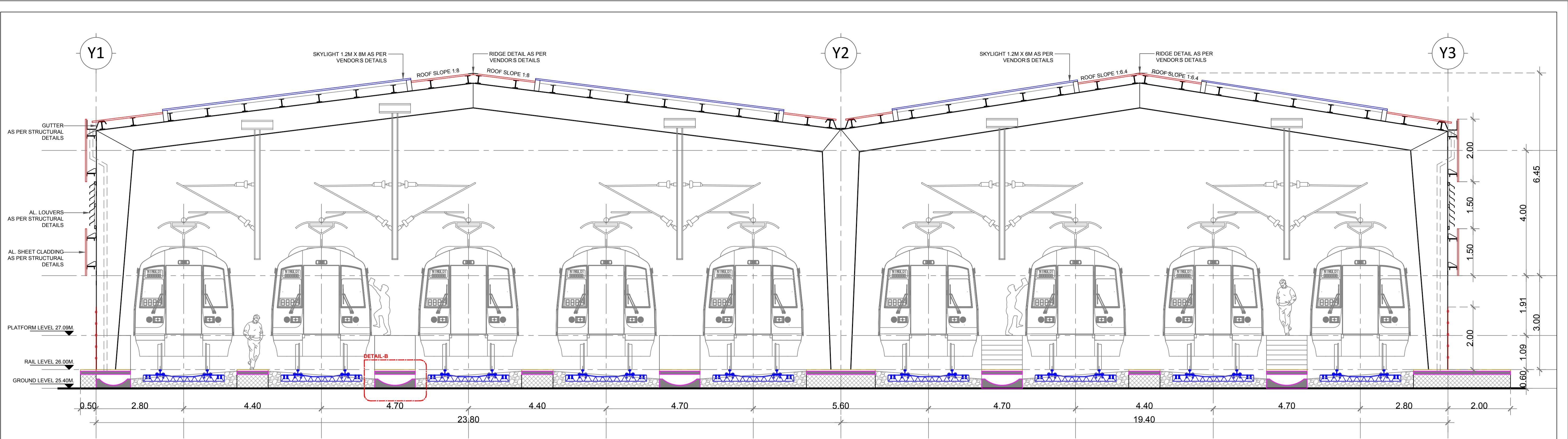
 DLF Cyber City, DLF Phase - II,  
 Gurgaon - 122 002, Haryana - India  
 Tel: +91 124 4830373  
 Fax: +91 124 4830373

Engineers • Planners • Scientists • Economists

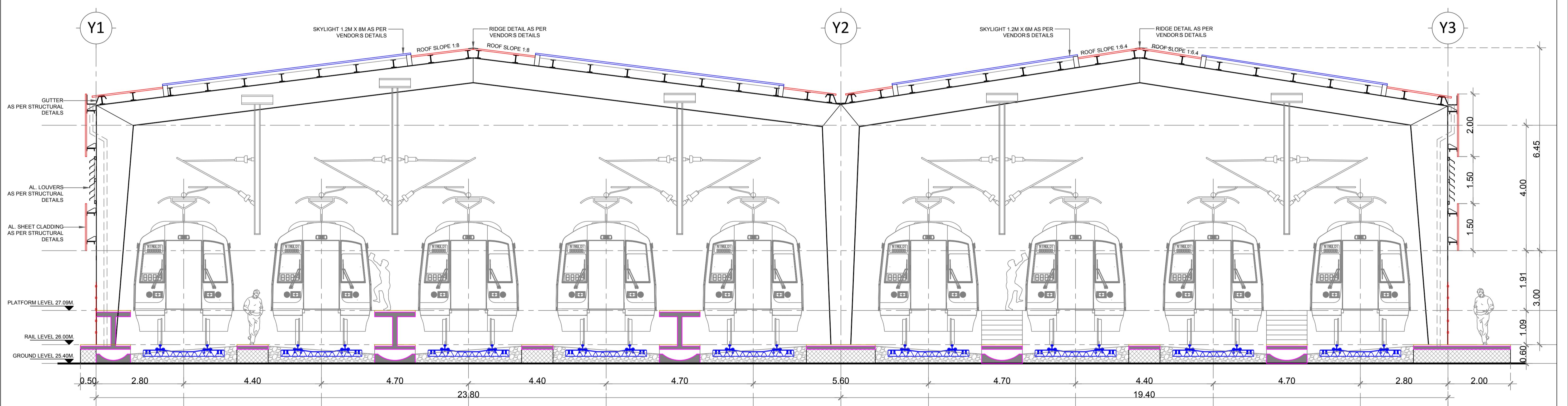

**MUMBAI METRO RAIL CORPORATION LTD.**

 Namitri Building, Plot No. R-13, 'E'- Block,  
 Bandra Kurla Complex, Bandra (East), Mumbai 400051.

**Drawing Title :**
**PROPOSED AAREY DEPOT  
COVERED STABLING SHED 1  
GROUND FLOOR PLAN**
**Drawing No. : MML3-CBS/MMRC/IC/DEP/AR/701**
**Rev. DWG Status**
**R2 D**
**P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing**
**CAD File Name :MML3-CBS/MMRC/IC/DEP/AR/701.DWG**


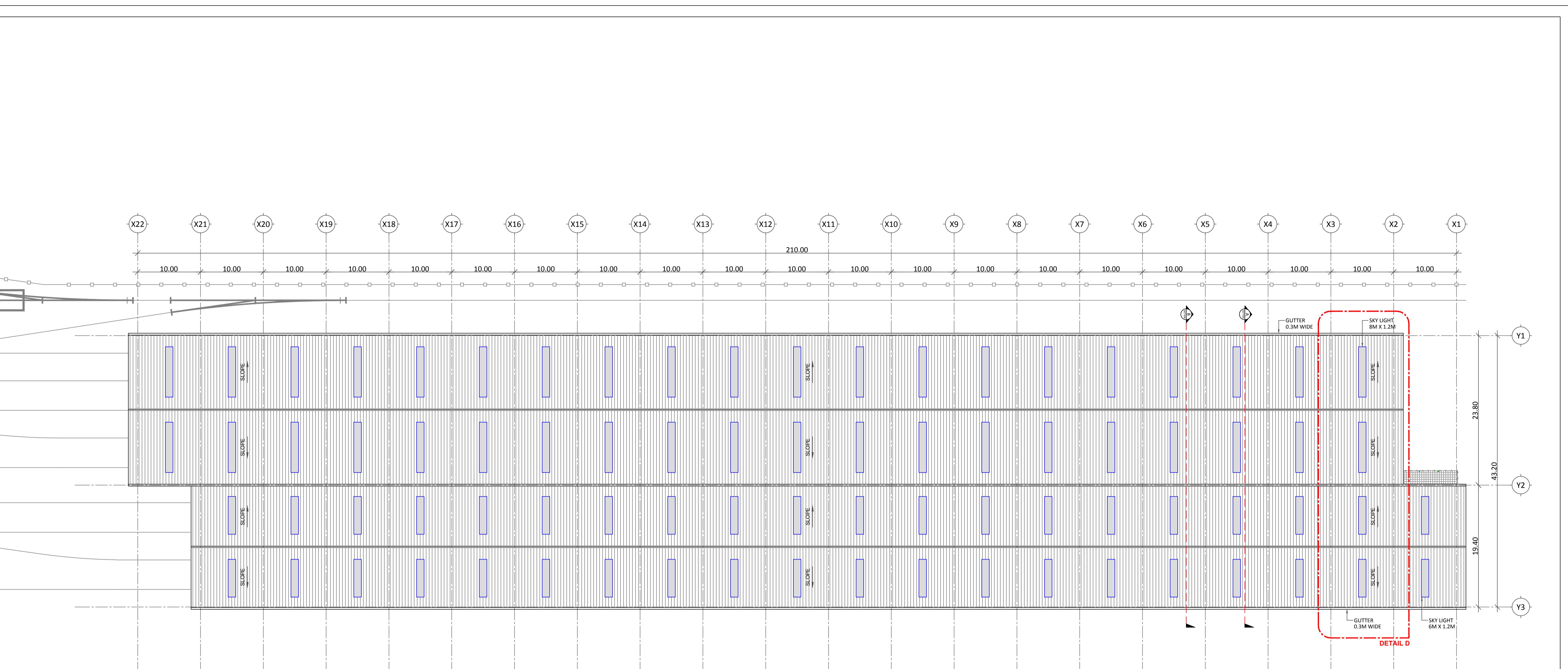


**SECTION A-A**



**SECTION B-B**

REFERENCE DRAWINGS :-	FOR INFORMATION ONLY	General Consultants : <b>maple</b> MUMBAI METRO LINE-3 GENERAL CONSULTANT	IC / Detailed Design Consultant : <b>PADECO</b> PADECO Co. Ltd Shin-Chammon Bldg 6-17-10 Shinbashi, Minato-ku, Tokyo 105-0044 Japan Tel: +81-3-5733-0855 Fax: +81-3-5733-0856	AECOM AECOM THE Louis Berger Group, Inc., USA SII, Infinity Tower C, DLF Cyber City, DLF Phase - II, Gurgaon - 122 002, Haryana - India 1202 2nd Fl N/W Wilmington DE 19807 Kure, Hiroshima 7300008 Indonesia	MUMBAI METRO RAIL CORPORATION LTD. Namitri Building, Plot No. R-13, 'E'- Block, Bandra Kurla Complex, Bandra (East), Mumbai 400051.
X-REF FILES :-		Notification : <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C As noted in the DSR No. _____ dated _____ A : Objection. A complete resubmission is required. B : No Objection with comments. C : Notice of No objection.		Project Title : Mumbai Metro Line - 3 Detailed Design Consultancy and Construction for Depot of Underground MML - 3	Drawing Title : <b>PROPOSED AAREY DEPOT COVERED STABLING SHED 1 SECTION</b>
NOTES :-		Assessor Discipline Leader Engineer R2 12.02.2018 SP COMMENTS ON R1 ADDRESSED R1 24.11.2017 SP SHEDS PROVIDED	Designed : AK    Checked : KT    Approved : SC AK KT VS AK KT VS	Drawing No. : MML3-CBS/MMRC/IC/DEP/AR/702 Rev. DWG Status R2 D	
		Rev. Date Drawn Description	Scale : 1:60 (A1)    Drawn : SP Date : 24.11.2017	P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing CAD File Name :MML3-CBS/MMRC/IC/DEP/AR/702.DWG	



REFERENCE DRAWINGS :-

X-REF FILES :-

NOTES :-

FOR INFORMATION ONLY



General Consultants :  
maple  
MUMBAI METRO LINE-3  
GENERAL CONSULTANT

Notification :

A     B     C

As noted in the DSR No. \_\_\_\_\_

dated \_\_\_\_\_

A : Objection. A complete resubmission is required.

B : No Objection with comments.

C : Notice of No objection.

Assessor   Discipline Leader   Engineer

R2   12.02.2018   SP   COMMENTS ON R1 ADDRESSED

R1   24.11.2017   SP   SHEDS PROVIDED

--   --   --

Rev.   Date   Drawn

IC / Detailed Design Consultant :



PADECO Co., Ltd

S

Shin-Chanamon Bldg

6-17-10

Shinjuku-ku

Tokyo

105-0004

Japan

Tel:

+81-3-5733-0856



AECOM

DFL Infivity Tower C,

Gurgaon - 122 002, Haryana - India

96

Fax:

+91 124 4830373

THE Louis Berger Group, Inc., USA

Engineers • Planners • Scientists • Economists

A-615/16, Kohinoor City

1202 2nd Fl N

Wadala (E), Mumbai 400008

India

Project Title :

Mumbai Metro Line - 3  
Detailed Design Consultancy and Construction for  
Depot of Underground MML - 3

Designed : AK

Checked : KT

Approved : SC

AK

KT

VS

AK

KT

VS

1:300 (A1)

Drawn : SP

12/11/2017

Date :

24.11.2017

Scale :

1:300

Designed

Checked

Approved

MUMBAI METRO RAIL CORPORATION LTD.

Namitri Building, Plot No. R-13, 'E'- Block,  
Bandra Kurla Complex, Bandra (East), Mumbai 400051.



MMRC

Drawing Title :

PROPOSED AAREY DEPOT  
COVERED STABLING SHED 1  
ROOF PLAN

Preliminary

Definitive

Construction Reference

Working Drawing

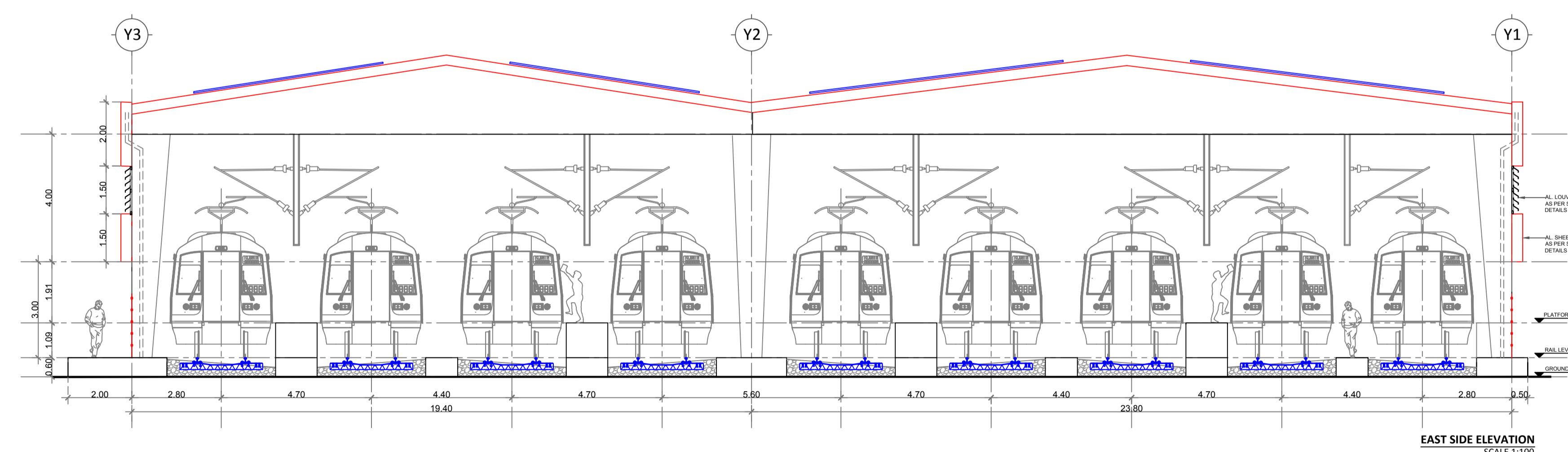
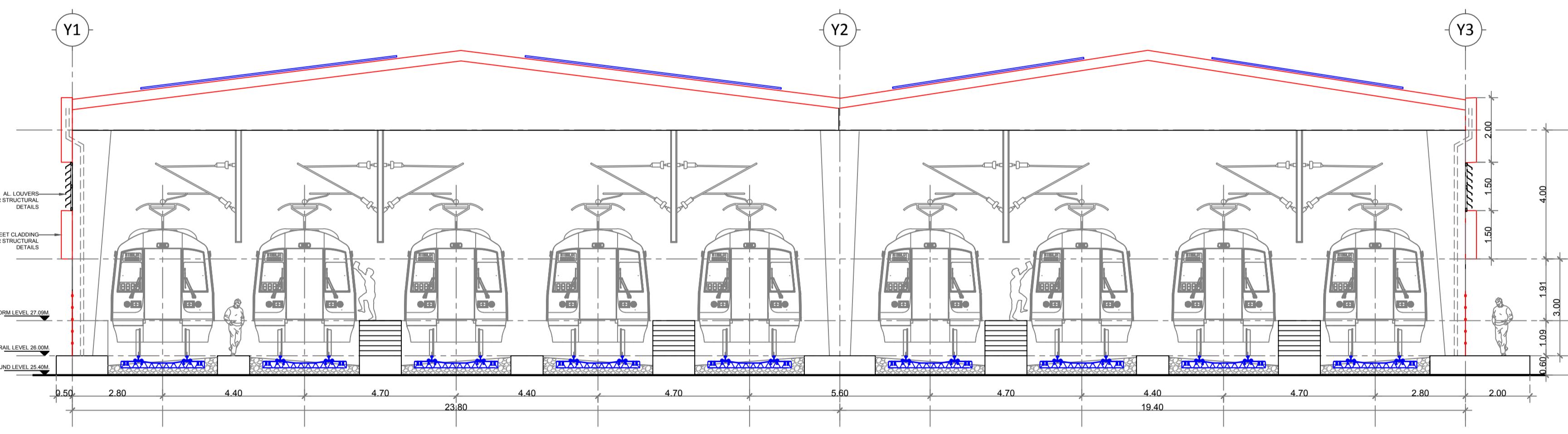
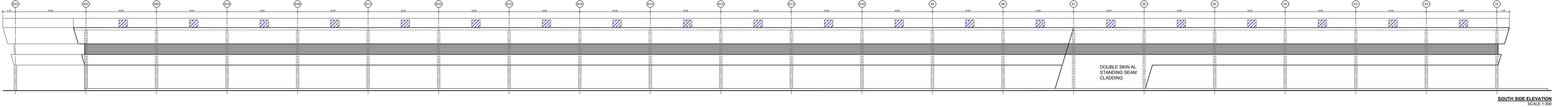
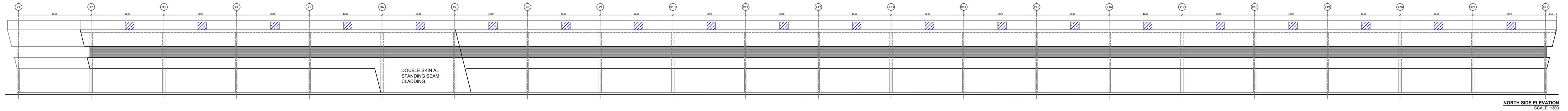
CAD File Name :

MML3-CBS/MMRC/IC/DEP/AR/703.DWG

Rev. DWG Status

R2

D



REFERENCE DRAWINGS :-

X-REF FILES :-

NOTES :-

FOR INFORMATION ONLY

General Consultants :  
 MUMBAI METRO LINE-3  
GENERAL CONSULTANT

Notification :  
 A     B     C  
 As noted in the DSR No. \_\_\_\_\_  
 dated \_\_\_\_\_

A : Objection. A complete resubmission is required.  
 B : No Objection with comments.  
 C : Notice of No objection.

Assessor Discipline Leader Engineer  
 R2 12.02.2018 SP COMMENTS ON R1 ADDRESSED  
 R1 24.11.2017 SP SHEDS PROVIDED

-- -- --  
 Rev. Date Drawn Description

AK KT VS  
 AK KT VS  
 AS SHOWN (A1)

Designed Checked Approved  
 Drawn : SP  
 Date : 24.11.2017

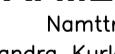
IC / Detailed Design Consultant :

 PADECO

PADECO Co., Ltd  
Shin-Chammon Bldg  
6-17-10 Shinbashi,  
Minato-ku,  
Tokyo 105-0004 Japan  
Tel: +81-3-5733-0855  
Fax: +81-3-5733-0856

 AECOM

THE Louis Berger Group, Inc., USA  
SFT Infivity Tower C,  
DLF Cyber City, DLF Phase - II,  
Gurgaon - 122 002, Haryana - India  
A-615/616, Kohinoor City  
120 2nd St NW  
Washington DC 20004  
USA

MUMBAI METRO RAIL CORPORATION LTD.  
 MMRC  
Namitri Building, Plot No. R-13, 'E'- Block,  
Bandra Kurla Complex, Bandra (East), Mumbai 400051.

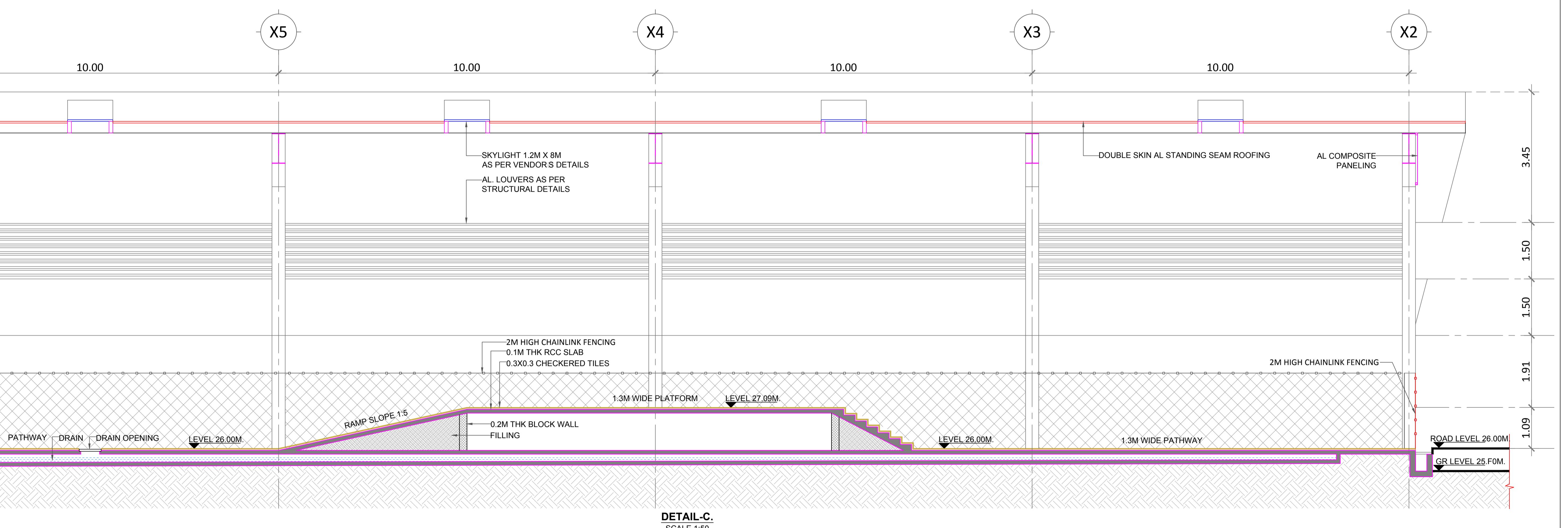
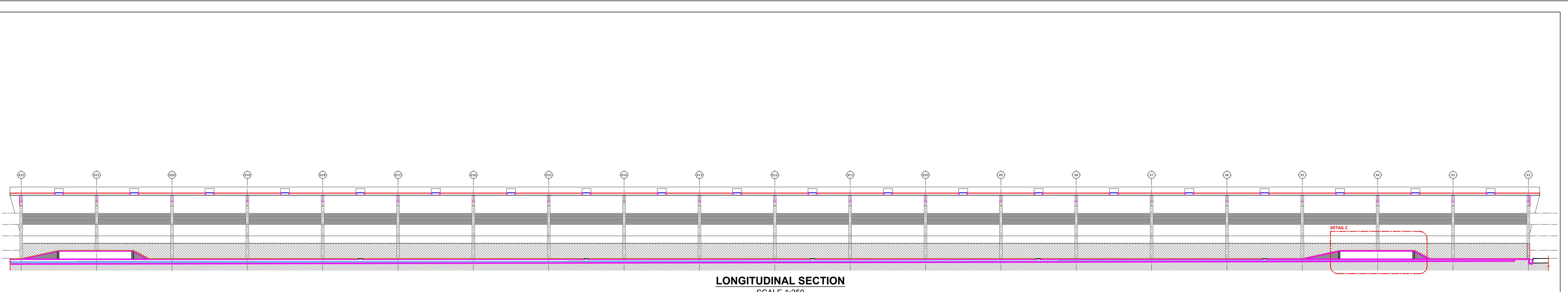
Drawing Title :

PROPOSED AAREY DEPOT  
COVERED STABLING SHED 1  
ELEVATION

Drawing No. : MML3-CBS/MMRC/IC/DEP/AR/704 Rev. DWG Status  
R2 D

P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing

CAD File Name :MML3-CBS/MMRC/IC/DEP/AR/704.DWG



REFERENCE DRAWINGS :-

X-REF FILES :-

NOTES :-

**FOR INFORMATION ONLY**



General Consultants :  
**maple**  
MUMBAI METRO LINE-3  
GENERAL CONSULTANT

Notification :

A     B     C

As noted in the DSR No. \_\_\_\_\_  
dated \_\_\_\_\_

A : Objection. A complete resubmission is required.  
B : No Objection with comments.  
C : Notice of No objection.

Assessor Discipline Leader Engineer

R2 12.02.2018 SP COMMENTS ON R1 ADDRESSED

R1 24.11.2017 SP SHEDS PROVIDED

-- -- --

Rev. Date Drawn

IC / Detailed Design Consultant :

**PADCO**

**AECOM**

**THE Louis Berger Group, Inc., USA**

**Shri Omkarji**

**DLF Cyber City, DLF Phase - II,**

**Gurgaon - 122 002, Haryana - India**

**Tel: +91 124 4830373**

**Fax: +91 124 4830373**

**Engineers • Planners • Scientists • Economists**

**A-615/16, Kohinoor City**

**Kurla (W), Mumbai 400088**

**India**

Project Title :

**Mumbai Metro Line - 3**

**Detailed Design Consultancy and Construction for**

**Depot of Underground MML - 3**

**Designed : AK**

**Checked : KT**

**Approved : SC**

**Drawn : SP**

**Date : 24.11.2017**

**MUMBAI METRO RAIL CORPORATION LTD.**

**Namitri Building, Plot No. R-13, 'E'- Block,**

**Bandra Kurla Complex, Bandra (East), Mumbai 400051.**

**MMRC**

**Drawing Title :**

**PROPOSED AAREY DEPOT**

**COVERED STABLING SHED 1**

**LONGITUDINAL SECTION**

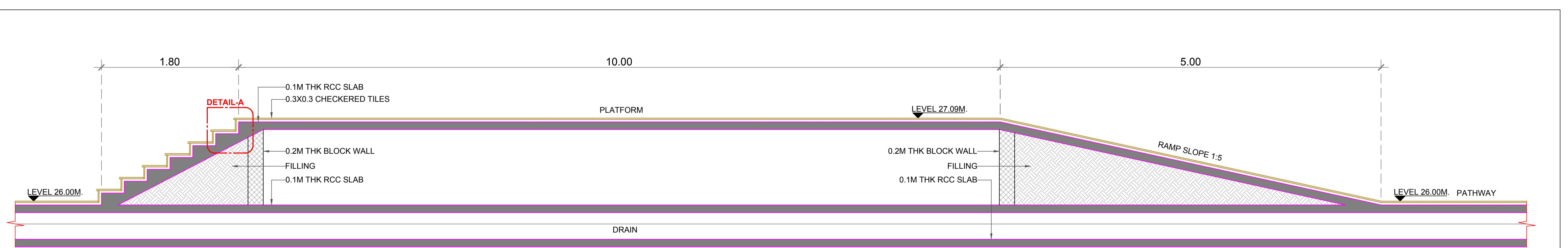
**Drawing No. : MML3-CBS/MMRC/IC/DEP/AR/705**

**Rev. DWG Status**

**R2 D**

**P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing**

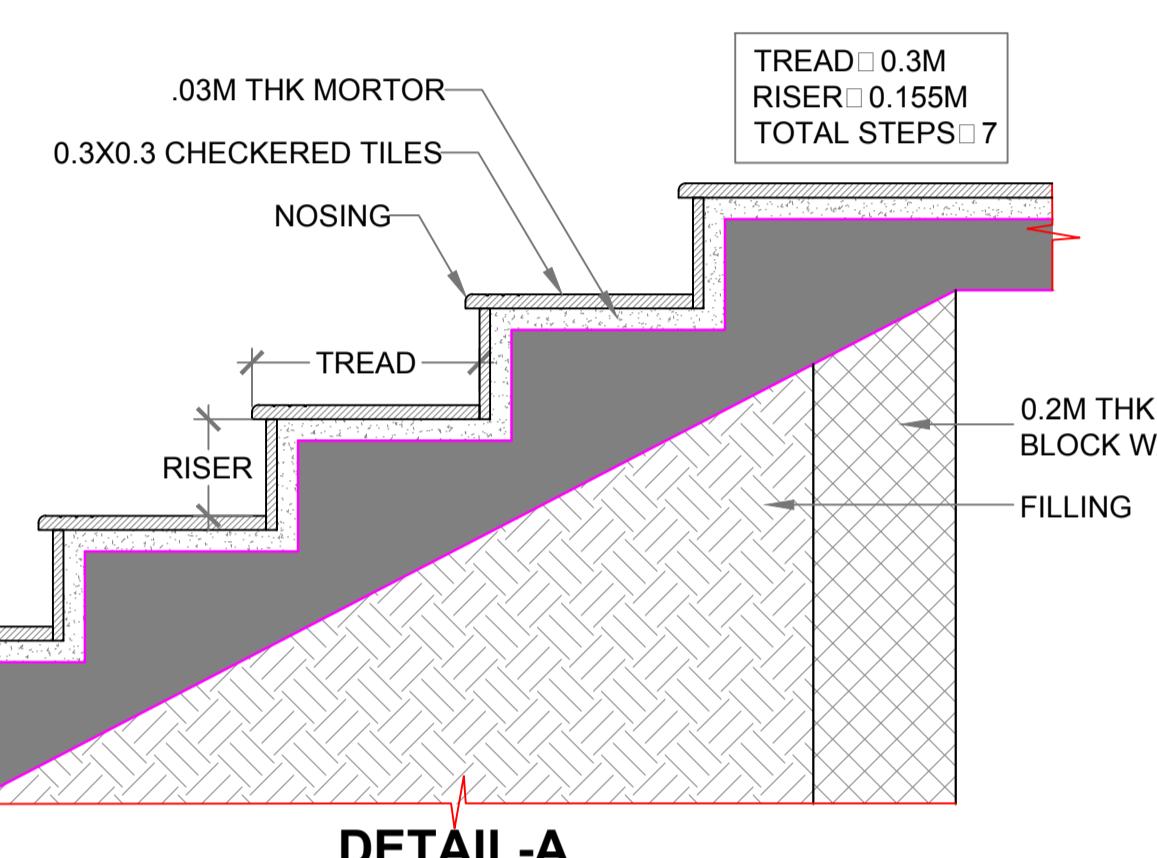
**CAD File Name :MML3-CBS/MMRC/IC/DEP/AR/705.DWG**



## **RAMP SECTION**

---

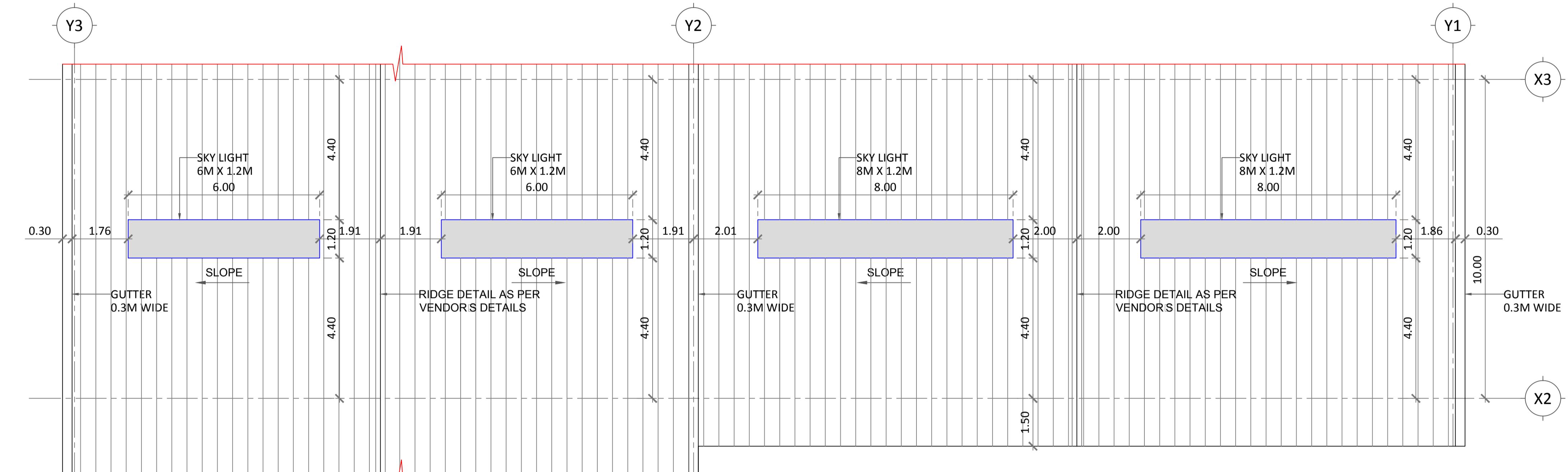
SCALE 1:2



## DETAILS

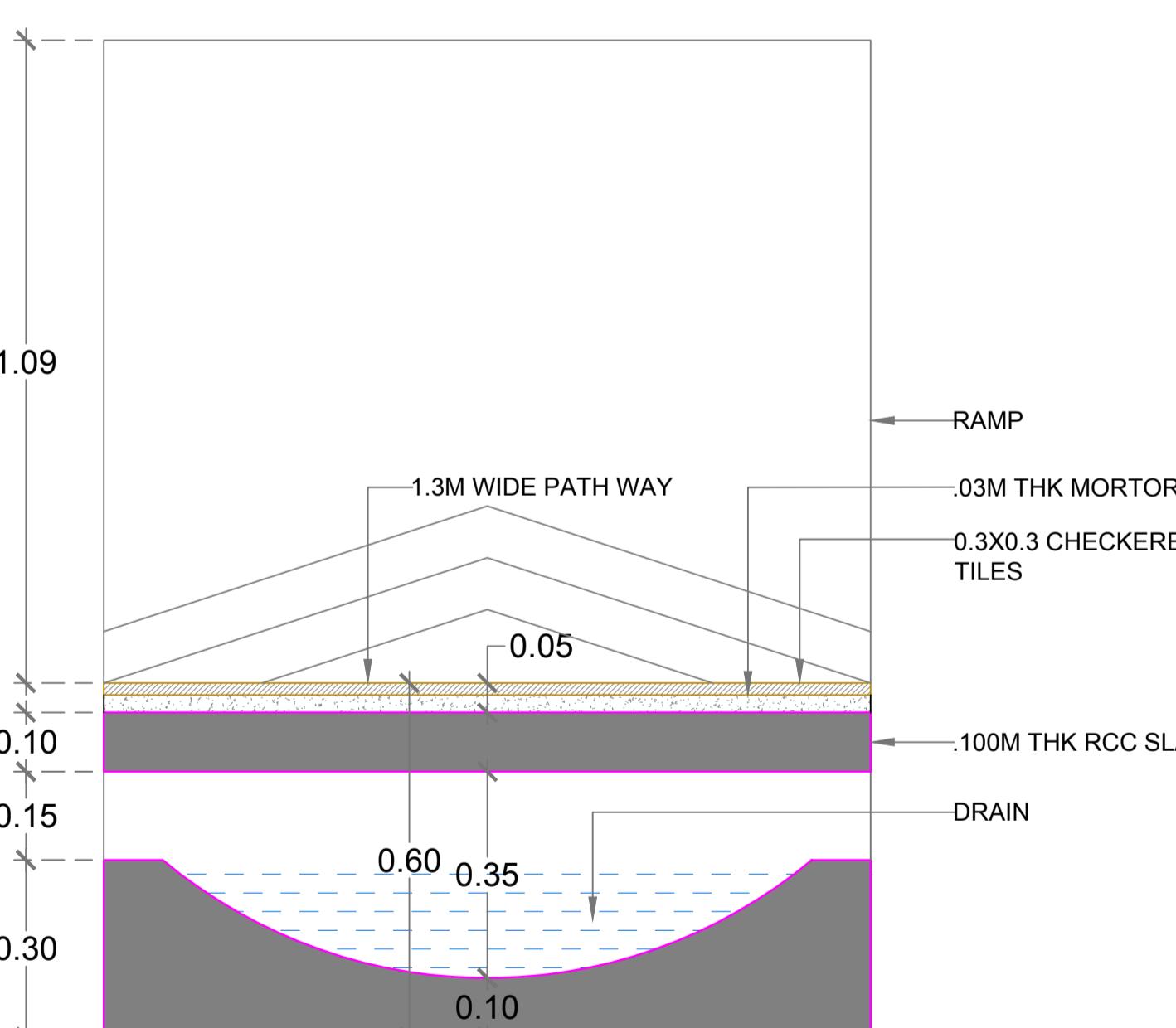
---

SCALE 1:1



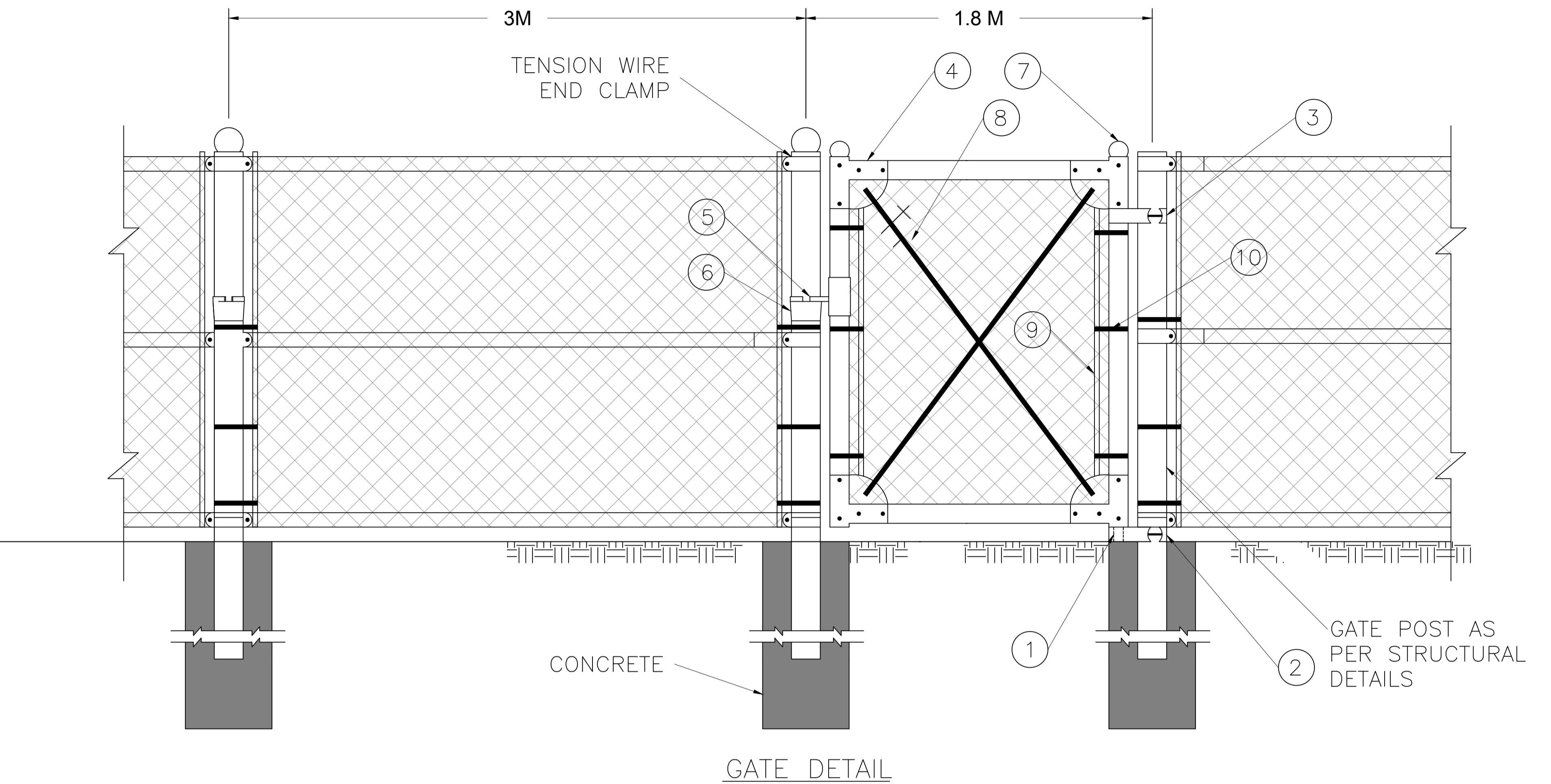
DETAILS

**SCALE 1**



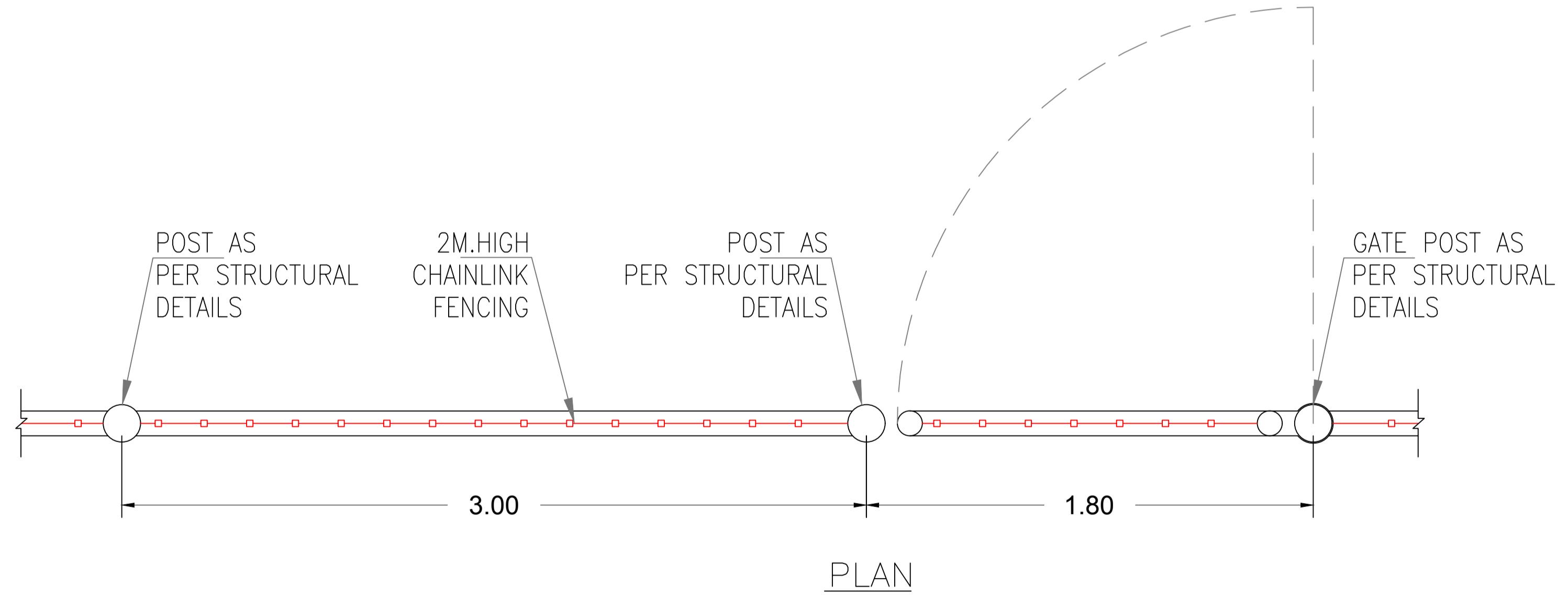
DETAIL-

SCALE 1:10



LEGEND

PART NO.	DESCRIPTION	QUANTITY
1	STRAIGHT PLUG	1
2	BOTTOM HINGE	1
3	TOP HINGE	1
4	CORNER ELBOW	4
5	LATCH FORK	1
6	FORK CATCH	1
7	ORNAMENTAL TOPS	4
8	TRUSS RODS	2
9	STRETCHER BAR	2
10	HOOK BOLTS	6



REFERENCE DRAWINGS :-

FOR INFORMATION ONLY



X-REF FILES :-

NOTES :-

General Consultants :

Notification :  
 A     B     C  
As noted in the DSR No. \_\_\_\_\_  
dated \_\_\_\_\_

A : Objection. A complete resubmission is required.  
B : No Objection with comments.  
C : Notice of No objection.

Assessor	Discipline Leader	Engineer
R2	12.02.2018	SP
R1	24.11.2017	SP
--	--	--
Rev.	Date	Drawn

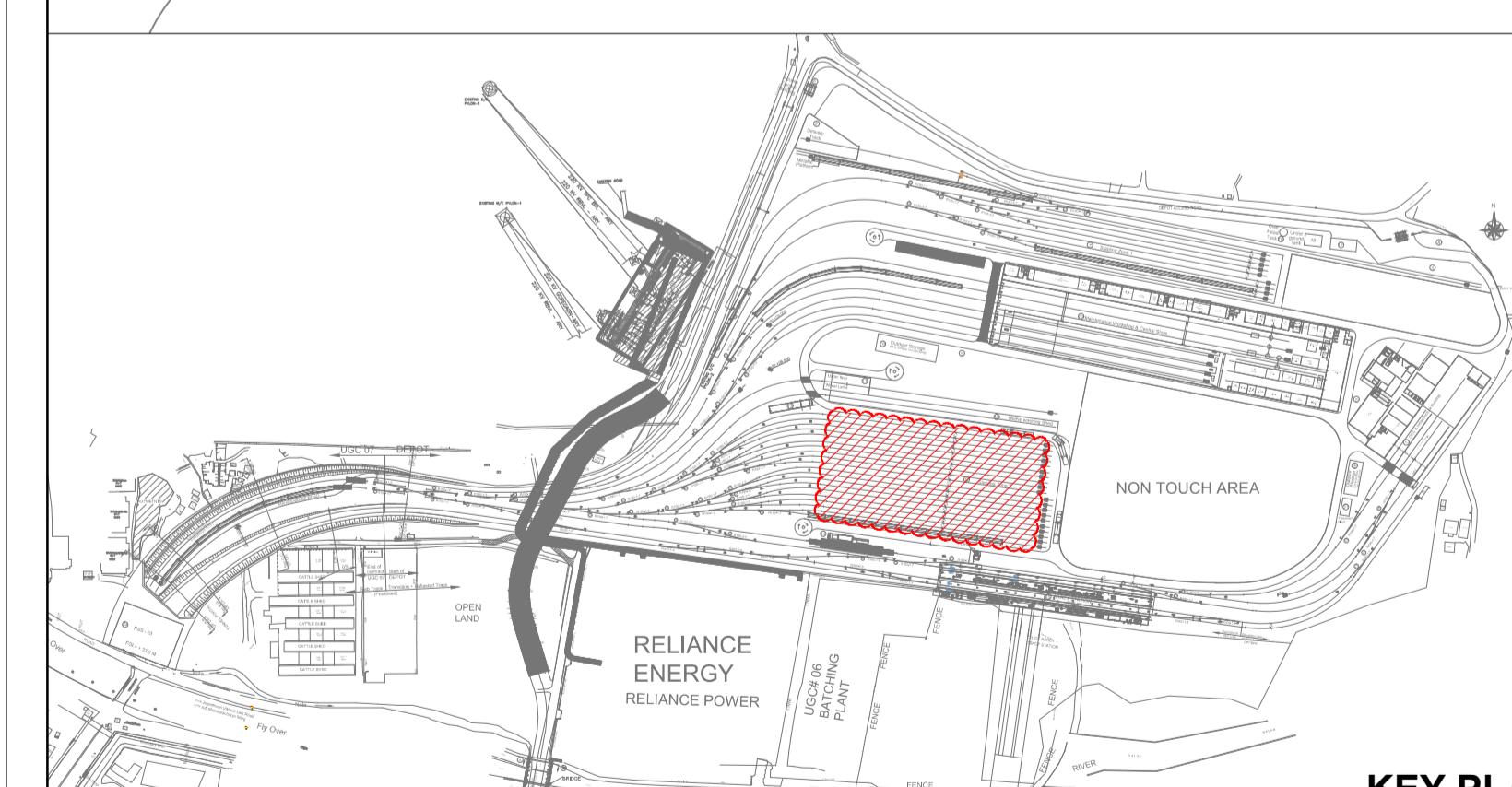
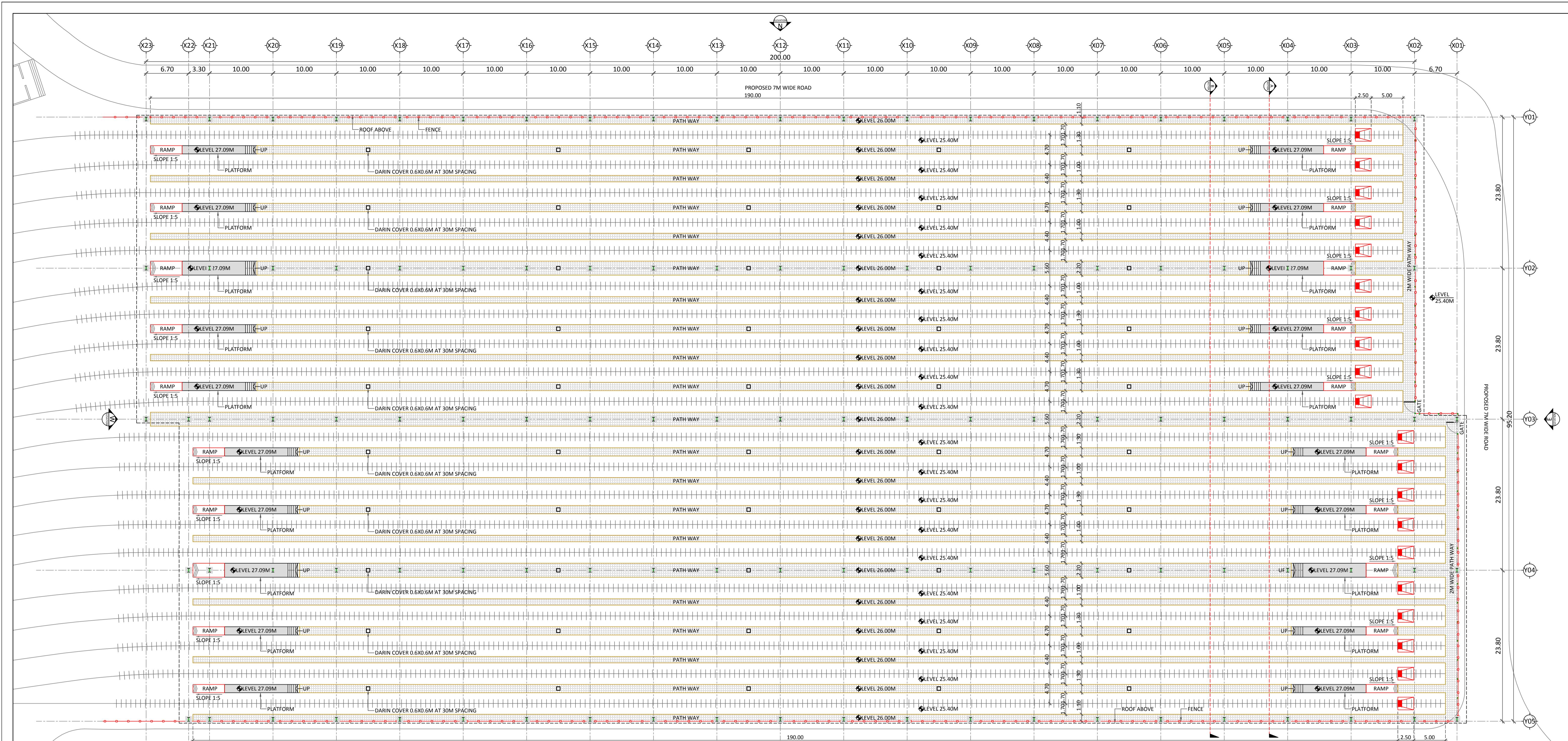
COMMENTS ON R1 ADDRESSED

SHEDS PROVIDED

AK	KT	VS
AK	KT	VS
Scale : 1:15 (A1)	Drawn : SP	Date : 24.11.2017
Designed : AK	Checked : KT	Approved : SC
Reviewed : SP	Checked : KT	Approved : SC

IC / Detailed Design Consultant :	PADECO	AECOM	THE Louis Berger Group, Inc., USA
PADECO Co. Ltd	Shin-Chammon Bldg	DLF Cyber City, DLF Phase - II,	1202 2nd Fl Nv
6-17-10 Shincham,	Minato-ku, Tokyo 105-0044 Japan	Gurgaon - 122 002, Haryana - India	Kure, Hiroshima 7300008 USA
Tel: +81-3-5733-0855	Fax: +91 124 4830373		
Fax: +81-3-5733-0856			
Project Title :	Mumbai Metro Line - 3	Detailed Design Consultancy and Construction for	
		Depot of Underground MML - 3	
Designed : AK	Checked : KT	Approved : SC	
Reviewed : SP	Checked : KT	Approved : SC	

MUMBAI METRO RAIL CORPORATION LTD.
Namitri Building, Plot No. R-13, 'E'- Block, Bandra Kurla Complex, Bandra (East), Mumbai 400051.
<b>MMRC</b>
Drawing Title :
<b>PROPOSED AAREY DEPOT COVERED STABLING SHED 1 GATE DETAIL</b>
Drawing No. : MML3-CBS/MMRC/IC/DEP/AR/707
Rev. DWG Status R2 D
P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing
CAD File Name :MML3-CBS/MMRC/IC/DEP/AR/707.DWG


**LEGENDS:-**

	BUFFER STOP AS PER TRACK DRAWING DETAILS
	0.3X0.3M CHECKERED TILES
	2M HIGH CHAINLINK FENCING

**KEY PLAN**

FOR INFORMATION ONLY

REFERENCE DRAWINGS :-


 MUMBAI METRO LINE - 3  
GENERAL CONSULTANT

X-REF FILES :-

NOTES :-

General Consultants :

Notification :

As noted in the DSR No. \_\_\_\_\_ dated \_\_\_\_\_

 A : Objection. A complete resubmission is required.  
 B : No Objection with comments.  
 C : Notice of No objection.

Assessor Discipline Leader Engineer

R2 15.02.2018 SP COMMENTS ON R1 ADDRESSED

R1 24.11.2017 SP SHEDS PROVIDED

-- -- --

Rev. Date Drawn

PROPOSED 7M WIDE ROAD


**MUMBAI METRO RAIL CORPORATION LTD.**  
 Namitr Building, Plot No. R-13, 'E' Block,  
 Bandra Kurla Complex, Bandra (East), Mumbai 400051.

**PROPOSED AAREY DEPOT  
COVERED STABLING SHED 2  
GROUND FLOOR PLAN**

IC / Detailed Design Consultant :

**P&DECO**

 P&DECO Co., Ltd  
Shri Chhatrapati Bhg.  
6-17-19 Shinbashi,  
Minato-ku  
Tokyo 105-0001 Japan  
Tel: +81-3-5733-0855  
Fax: +81-3-5733-0856

**AECOM**

 8F, Shiroi Tower C  
DLF Cyber City, DLF Phase II,  
Gurgaon - 122 002, Haryana - India  
Tel: +91 124 4830100  
Fax: +91 124 4830175

**THE Louis Berger Group, Inc., USA**

 Engineers • Planners • Scientists • Economists  
1250 23rd St. NW  
Washington, DC 20037  
A-415/16, Kohinoor City,  
Kurla (W), Mumbai 400088  
India

Drawing Title :

 Project Title : Mumbai Metro Line - 3  
Detailed Design Consultancy and Construction for  
Depot of Underground MML - 3

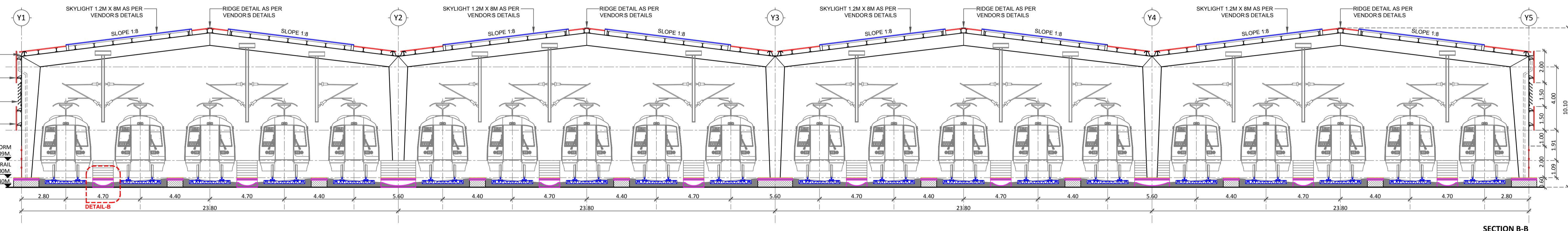
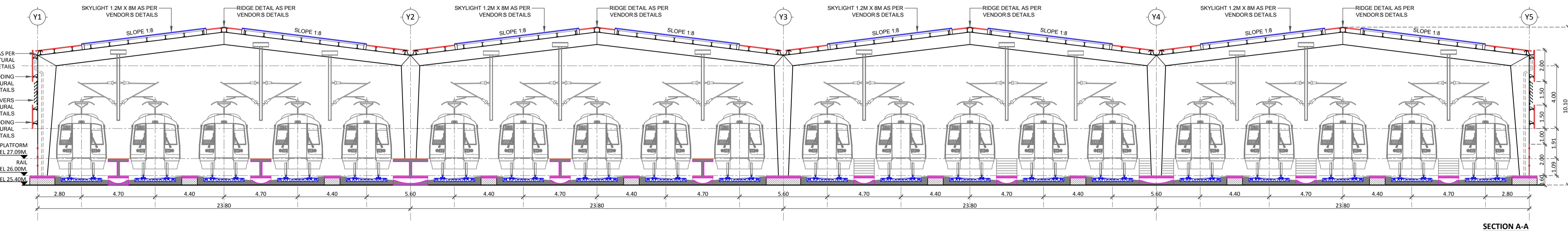
Designed : AK Checked : KT Approved : SC

Drawing No. : MML3-CBS/MMRC/IC/DEP/AR/801 Rev. R2 DWG Status D

P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing

CAD File Name : MML3-CBS/MMRC/IC/DEP/AR/801.DWG

Page 70



REFERENCE DRAWINGS :-

FOR INFORMATION ONLY



MUMBAI METRO LINE-3  
GENERAL CONSULTANT

Notification :

A     B     C

As noted in the DSR No. \_\_\_\_\_  
dated \_\_\_\_\_

A : Objection. A complete resubmission is required.  
B : No Objection with comments.  
C : Notice of No objection.

Assessor Discipline Leader Engineer

R2 15.02.2018 SP COMMENTS ON R1 ADDRESSED

R1 24.11.2017 SP SHEDS PROVIDED

-- -- --

Rev. Date Drawn

Description

IC / Detailed Design Consultant :



PADECO

PADECO Co., Ltd

Shin-Osaka-shi Bldg

6-17-19 Shinbashi

Minato-ku

Tokyo, Japan

Tel: +81-3-5733-0855

Fax: +81-3-5733-0856



AECOM

9F, Infra Power C

Shin-Osaka-shi Bldg

6-17-19 Shinbashi

Minato-ku

Gurgaon - 122 002, Haryana – India

Tel: +91 124 4830100

Fax: +91 124 4830173

THE Louis Berger Group, Inc., USA

Engineers • Planners • Scientists • Executives



MMRC

1250 23rd St. NW

Arlington, VA 22203,

Washington, DC 20037

Kolkata (W), India

400098

USA

India

India

India

India

Drawing Title :

Mumbai Metro Line – 3

Detailed Design Consultancy and Construction for

Depot of Underground MML – 3

Project Title :

Mumbai Metro Line – 3

Detailed Design Consultancy and Construction for

Depot of Underground MML – 3

Designed : AK

Checked : KT

Approved : SC

Drawn : SP

Date : 24.11.2017

**MUMBAI METRO RAIL CORPORATION LTD.**

Namitr Building, Plot No. R-13, 'E' Block,

Bandra Kurla Complex, Bandra (East), Mumbai 400051.

**PROPOSED AAREY DEPOT**

**COVERED STABLING SHED 2**

**SECTION A-A & B-B**

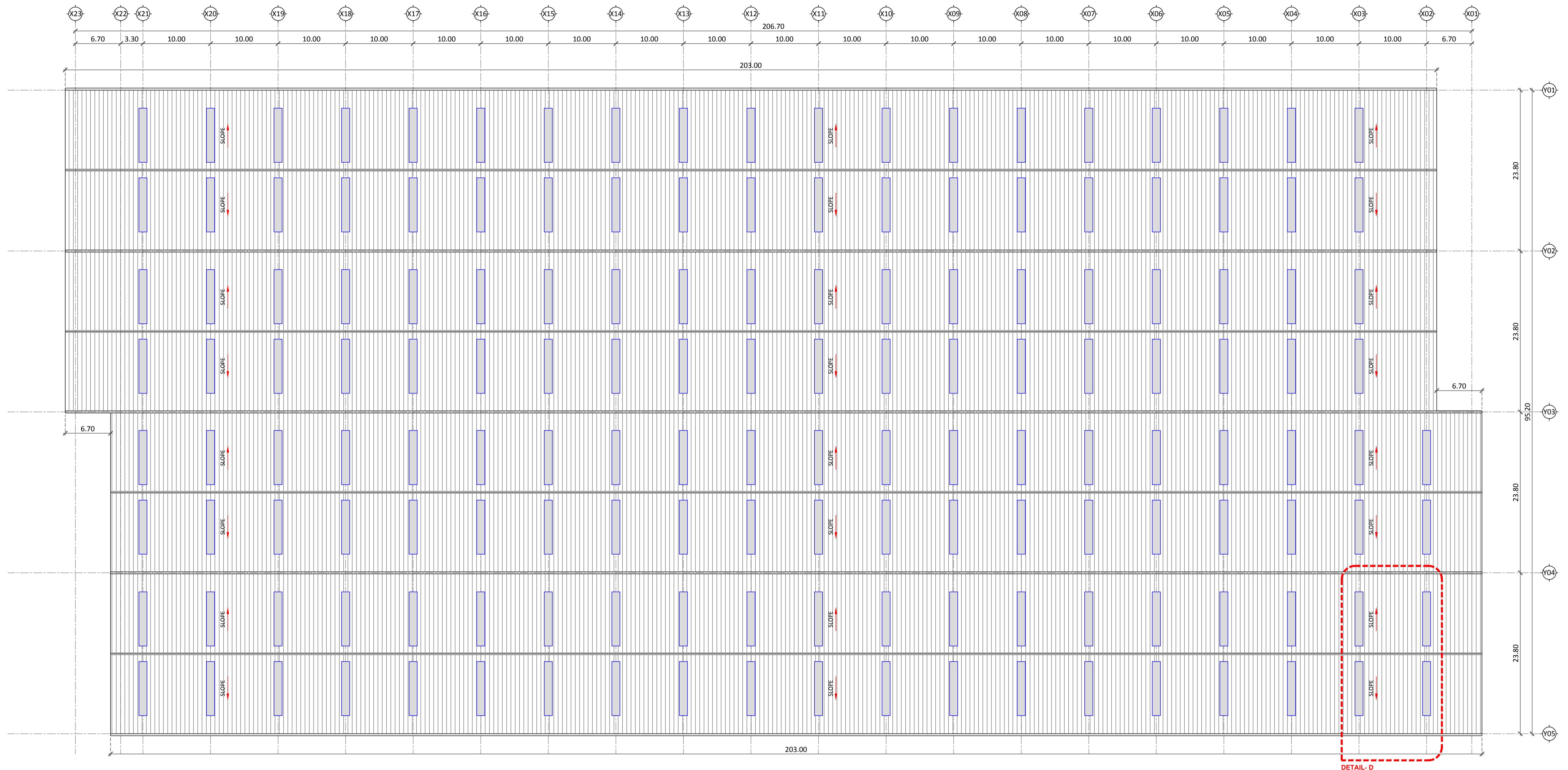
Drawing No. : MML3-CBS/MMRC/IC/DEP/AR/802

Rev. R2 DWG Status D

P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing

CAD File Name : MML3-CBS/MMRC/IC/DEP/AR/802.DWG

Page 71



REFERENCE DRAWINGS :-

FOR INFORMATION ONLY



General Consultants :  
maple  
MUMBAI METRO LINE-3  
GENERAL CONSULTANT

Notification :

A     B     C

As noted in the DSR No. \_\_\_\_\_  
dated \_\_\_\_\_

A : Objection. A complete resubmission is required.  
B : No Objection with comments.  
C : Notice of No objection.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

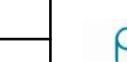
\_\_\_\_\_

\_\_\_\_\_

IC / Detailed Design Consultant :



PADECO Co., Ltd  
Shin-Osaka Main Bldg  
6-17-19 Shinbashi,  
Minato-ku  
Tokyo 105-0012 Japan  
Tel: +81-3-5733-0855  
Fax: +81-3-5733-0856



6F, Infra Power C  
DLF Cyber City, DLF Phase-II,  
Gurgaon - 122 002, Haryana – India  
Tel: +91 124 4830100  
Fax: +91 124 4830173



THE Louis Berger Group, Inc. USA  
Engineers • Planners • Scientists • Economists  
1250 23rd St. NW  
Washington, DC 20037  
A-415/16, Kohinoor City,  
Kurla (W), Mumbai 400088  
India



MMRC  
Namitr Building, Plot No. R-13, 'E' Block,  
Bandra Kurla Complex, Bandra (East), Mumbai 400051.



Drawing Title :



PROPOSED AAREY DEPOT



COVERED STABILIZING SHED 2



ROOF PLAN



Drawing No. :



Rev.



DWG Status



R2



D



P-Preliminary



D-Definitive



C-Construction Reference



W-Working Drawing



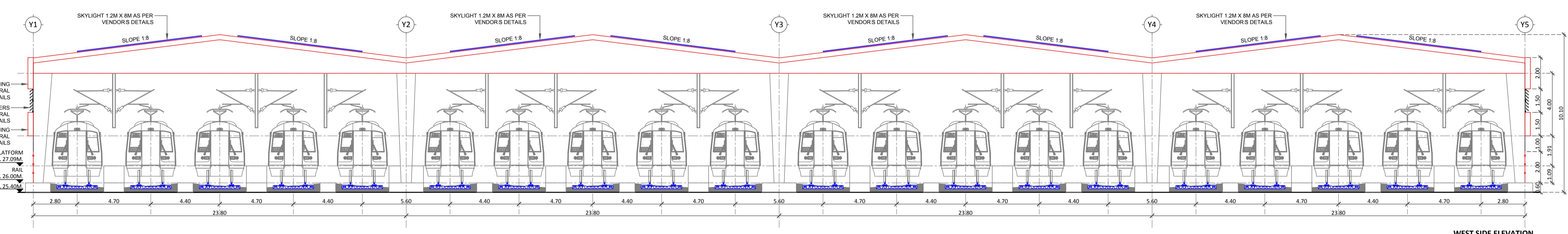
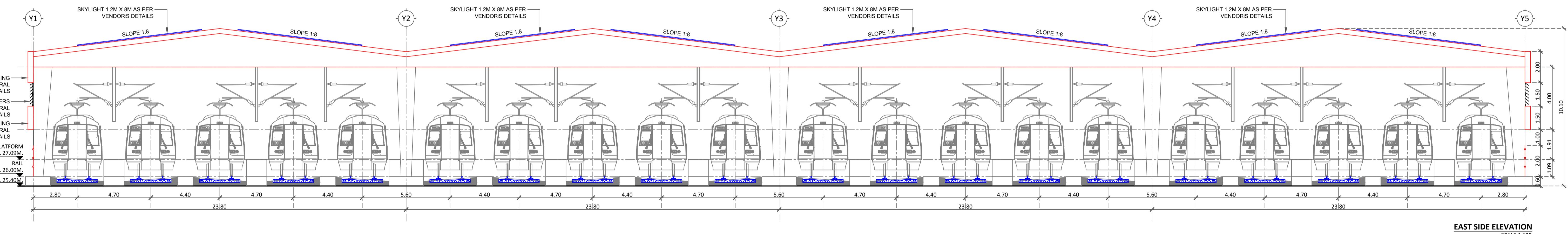
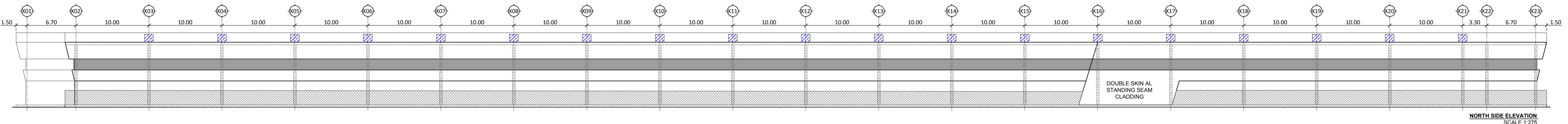
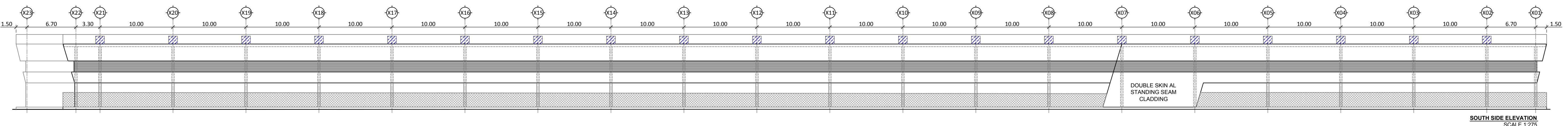
CAD File Name :



MML3-CBS/MMRC/IC/DEP/AR/803.DWG



Page 72



REFERENCE DRAWINGS :-

FOR INFORMATION ONLY



General Consultants :  
**maple**  
MUMBAI METRO LINE - 3  
GENERAL CONSULTANT

Notification :

A     B     C

As noted in the DSR No. \_\_\_\_\_  
dated \_\_\_\_\_

A : Objection. A complete resubmission is required.  
B : No Objection with comments.  
C : Notice of No objection.

R2

15.02.2018

SP

COMMENTS ON R1 ADDRESSED

R1

24.11.2017

SP

SHEDS PROVIDED

Description

Designed

Checked

Approved

AK

KT

VS

AK

KT

VS

IC / Detailed Design Consultant :



PADECO Co., Ltd  
Shin-Osaka Bldg  
6-17-19 Shinbashi,  
Minato-ku,  
Tokyo 105-0012  
Japan

Tel +81-3-5733-0855  
Fax +81-3-5733-0856



AECOM  
8F, Infra Power C  
Shin-Osaka Bldg  
6-17-19 Shinbashi,  
Minato-ku,  
Tokyo 105-0012  
Japan

Tel +91 124 4830100  
Fax +91 124 4830173



THE Louis Berger Group, Inc., USA  
Engineers • Planners • Scientists • Economists

1250 23rd St. NW  
Washington, DC 20037  
USA

A-415/16, Kohinoor City,  
Kurla (W), Mumbai 400088  
India



MMRC

1250 23rd St. NW



Drawing Title :

A-415/16, Kohinoor City,  
Kurla (W), Mumbai 400088  
India

**MUMBAI METRO RAIL CORPORATION LTD.**

Namrati Building, Plot No. R-13, 'E' Block,  
Bandra Kurla Complex, Bandra (East), Mumbai 400051.

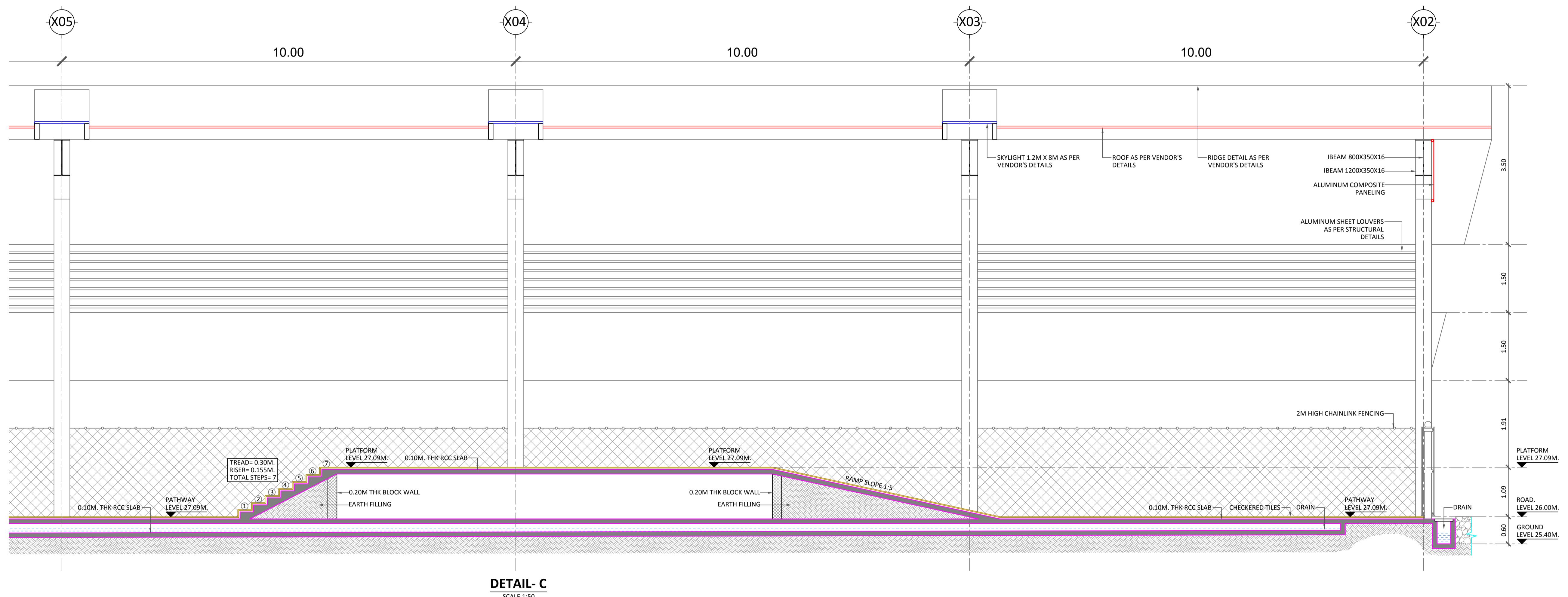
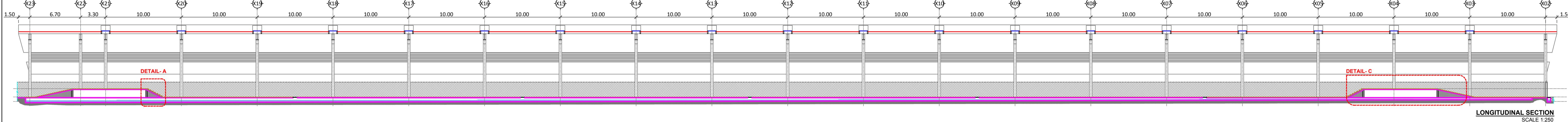
**PROPOSED AAREY DEPOT**  
**COVERED STABLING SHED 2**  
**ELEVATIONS**

Drawing No. : MML3-CBS/MMRC/IC/DEP/AR/804 Rev. R2 DWG Status D

P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing

CAD File Name : MML3-CBS/MMRC/IC/DEP/AR/804.DWG

Page 73



REFERENCE DRAWINGS :-

FOR INFORMATION ONLY



General Consultants :

MUMBAI METRO LINE - 3  
GENERAL CONSULTANT

Notification :

A     B     C

As noted in the DSR No. \_\_\_\_\_  
dated \_\_\_\_\_

A : Objection. A complete resubmission is required.  
B : No Objection with comments.  
C : Notice of No objection.

\_\_\_\_\_

Assessor

Discipline Leader

Engineer

R2

15.02.2018

SP

COMMENTS ON R1 ADDRESSED

AK

KT

VS

R1

24.11.2017

SP

SHEDS PROVIDED

AK

KT

VS

--

--

--

Rev.

Date

Drawn

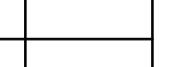
Description

Designed

Checked

Approved

IC / Detailed Design Consultant :



PADECO Co., Ltd  
Shin-Osaka Main Bldg  
6-17-19 Shinbashi,  
Minato-ku  
Tokyo 105-0011 Japan  
Tel: +81-3-5733-0855  
Fax: +81-3-5733-0856



8F, Infra Power C  
DLF Cyber City, DLF Phase II,  
Gurgaon - 122 002, Haryana - India  
Tel: +91 124 4830100  
Fax: +91 124 4830173



THE Louis Berger Group, Inc. USA  
Engineers • Planners • Scientists • Economists  
1250 23rd St. NW  
Washington, DC 20037  
A-415/16, Kharoo City,  
Kurla (W), Mumbai 400088  
India



Namrati Building, Plot No. R-13, 'E' Block,  
Bandra Kuria Complex, Bandra (East), Mumbai 400051.

Drawing Title :

**PROPOSED AAREY DEPOT  
COVERED STABLING SHED 2  
LONGITUDINAL SECTION**

Drawing No. : MML3-CBS/MMRC/IC/DEP/AR/805

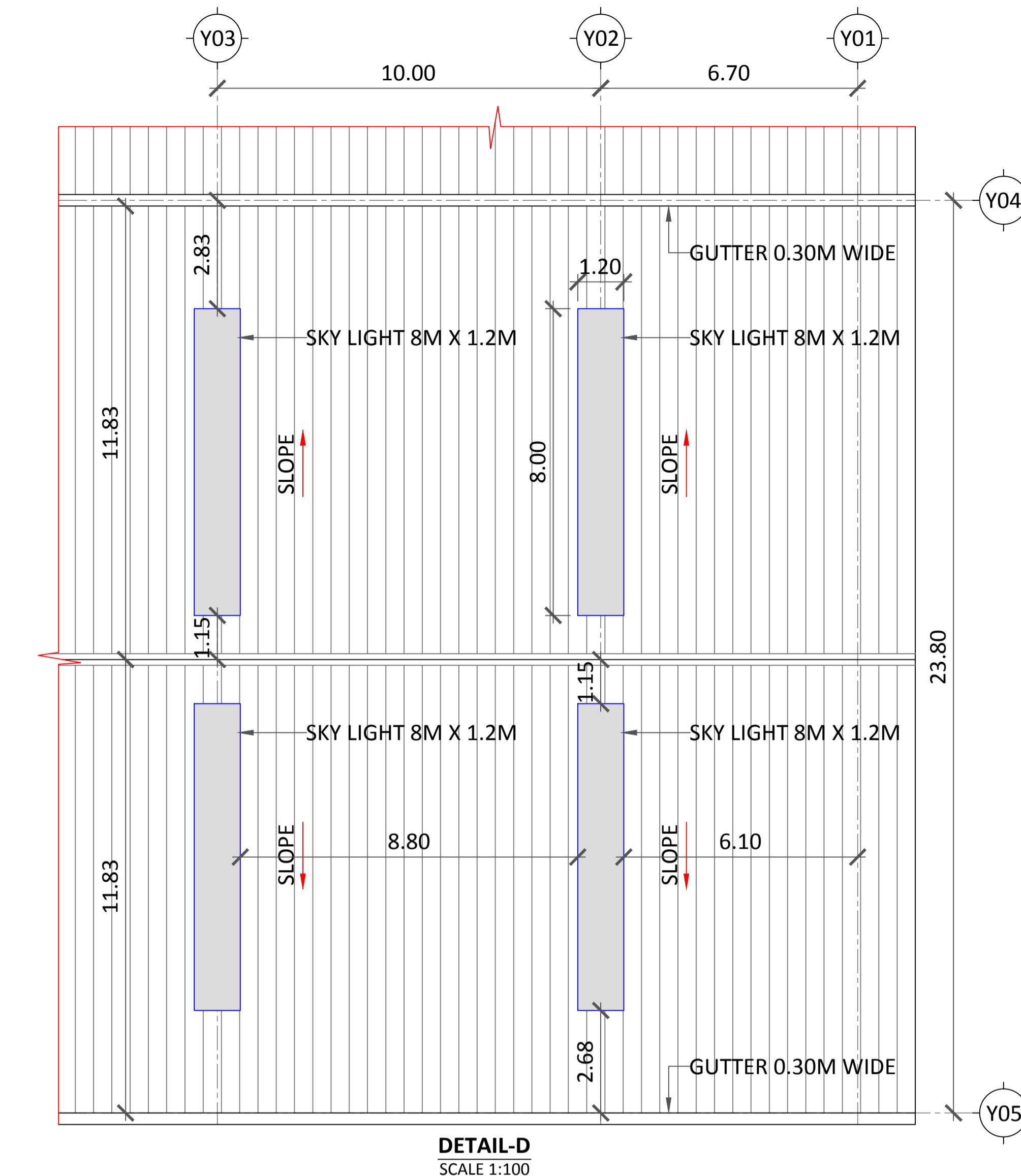
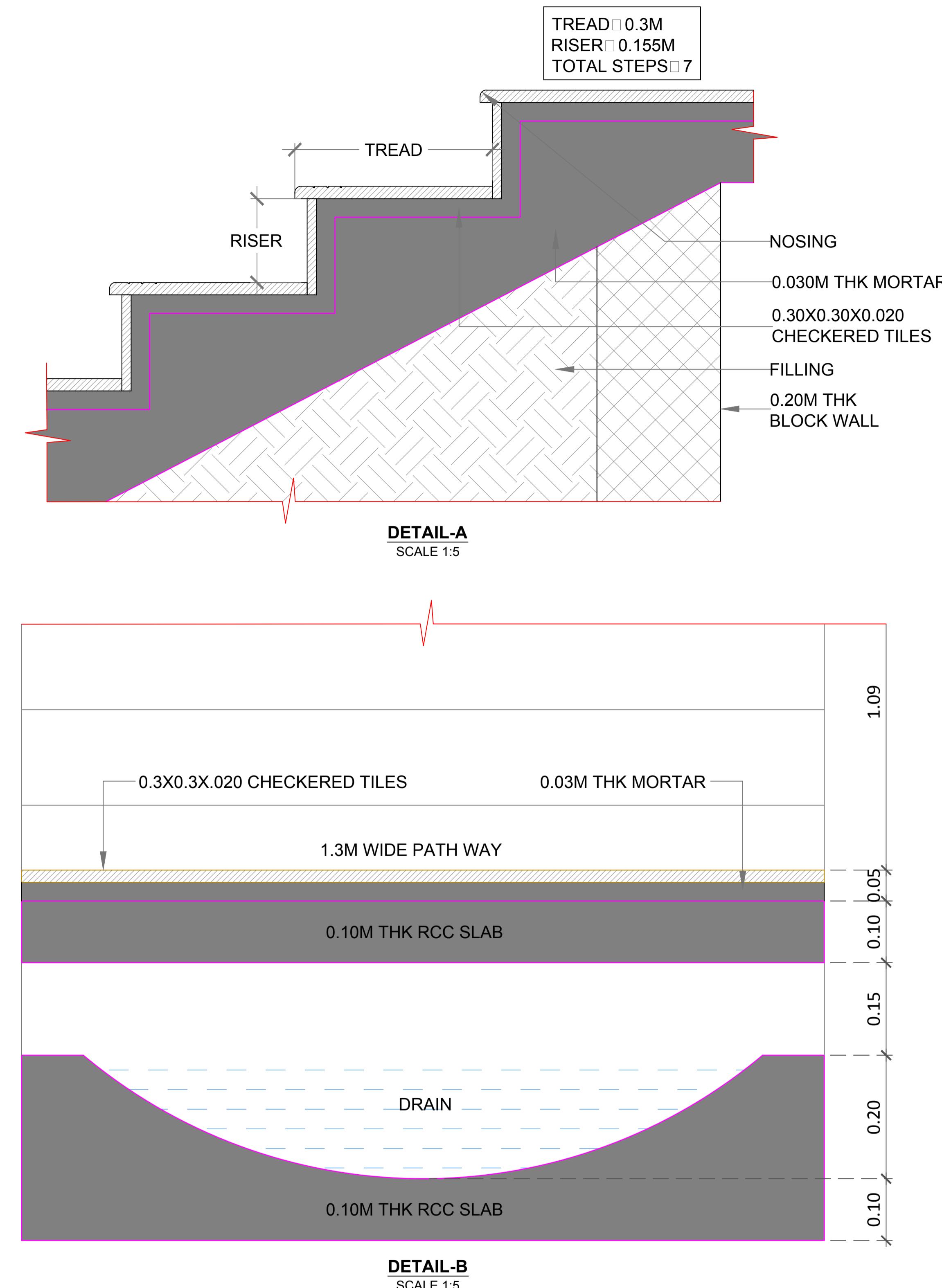
Rev. R2

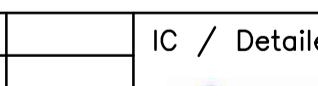
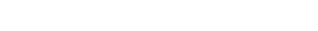
DWG Status D

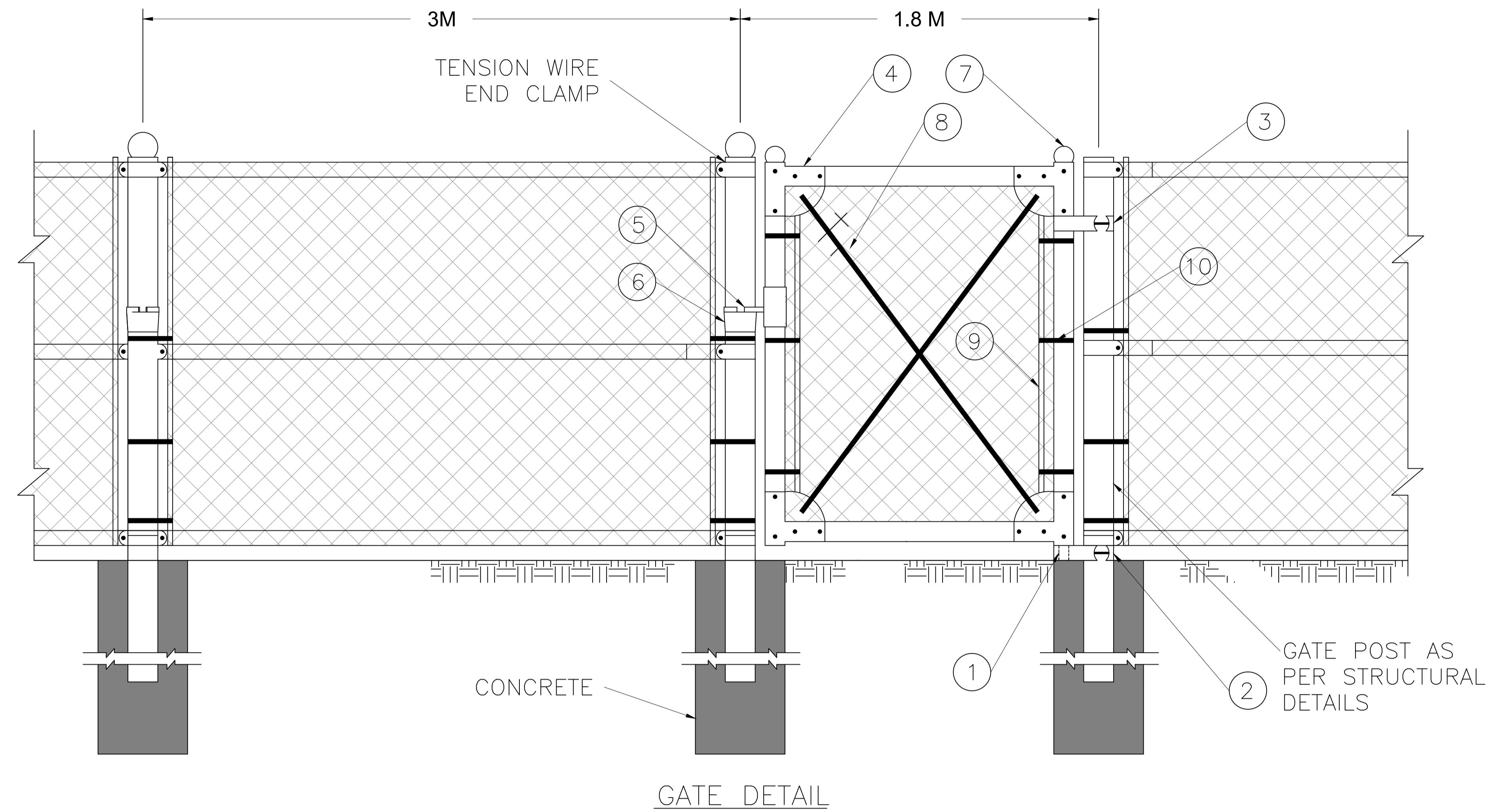
P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing

CAD File Name : MML3-CBS/MMRC/IC/DEP/AR/805.DWG

Page 74

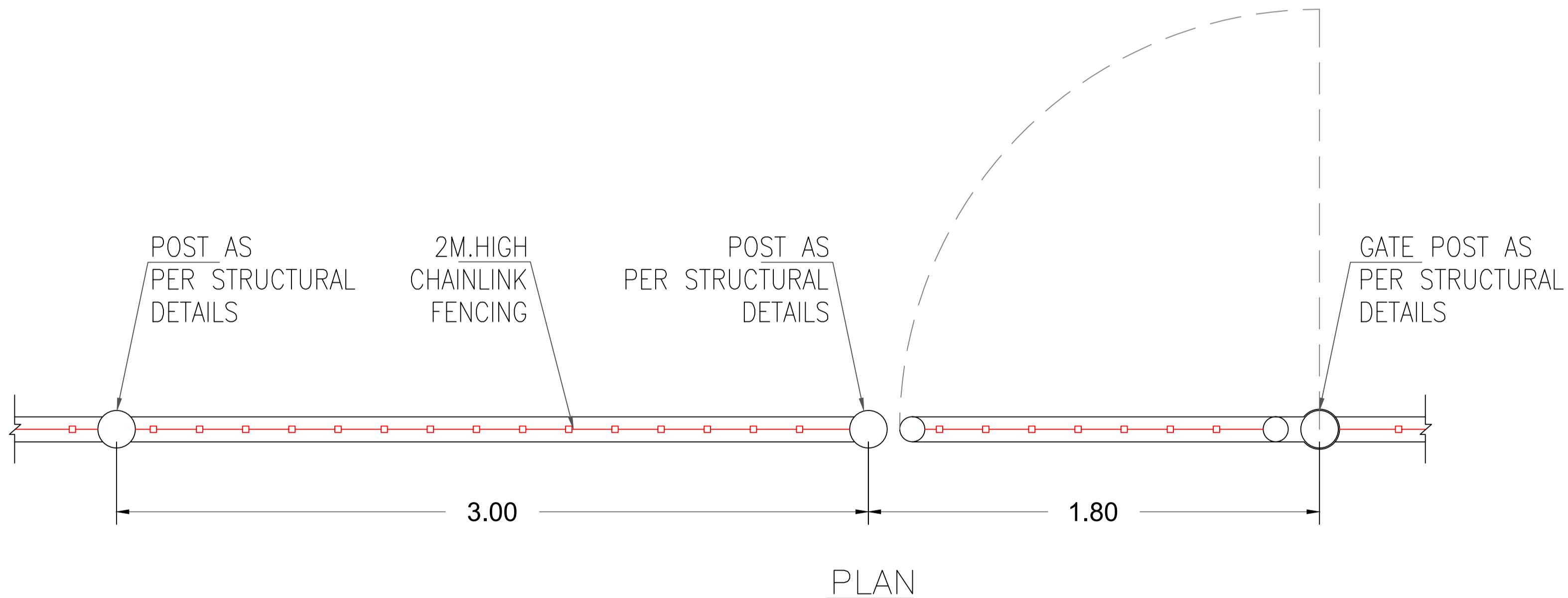


REFERENCE DRAWINGS :-			FOR INFORMATION ONLY			General Consultants :					
											
											
											
											
											
						Drawing Title :					
						<b>PROPOSED AAREY DEPOT</b>					
						<b>COVERED STABLING SHED 2</b>					
						<b>DETAILS</b>					
						Project Title : Mumbai Metro Line - 3					
						dated _____					
						A : Objection. A complete resubmission is required. B : No Objection with comments. C : Notice of No objection.					
						Drawing No. : MML3-CBS/MMRC/IC/DEP/AR/806			Rev.	DWG Status	
									R2	D	
						Designed : AK	Checked : KT	Approved : SC			
									R2	15.02.2018	SP
						COMMENTS ON R1 ADDRESSED					
									P	Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing	
									R1	24.11.2017	SP
						SHEDS PROVIDED					
						Scale : AS SHOWN (A1)	Drawn : SP	Date : 24.11.2017			
						CAD File Name : MML3-CBS/MMRC/IC/DEP/AR/806.DWG			Rev.	Page 75	
						Description			Designed	Checked	Approved



#### LEGEND

PART NO.	DESCRIPTION	QUANTITY
1	STRAIGHT PLUG	1
2	BOTTOM HINGE	1
3	TOP HINGE	1
4	CORNER ELBOW	4
5	LATCH FORK	1
6	FORK CATCH	1
7	ORNAMENTAL TOPS	4
8	TRUSS RODS	2
9	STRETCHER BAR	2
10	HOOK BOLTS	6



REFERENCE DRAWINGS :-

FOR INFORMATION ONLY

General Consultants :  
**maple**  
MUMBAI METRO LINE-3  
GENERAL CONSULTANT

Notification :

A     B     C

As noted in the DSR No. \_\_\_\_\_

dated \_\_\_\_\_

A : Objection. A complete resubmission is required.

B : No Objection with comments.

C : Notice of No objection.

IC / Detailed Design Consultant :

**P&DECO**      **AECOM**

P&DECO Co., Ltd  
8F, Shin-Chuo-Machi Bldg.  
6-17-19 Shinbashi,  
Minato-ku,  
Tokyo 105-0001 Japan  
Tel: +81-3-5733-0855  
Fax: +81-3-5733-0856

**THE Louis Berger Group, Inc., USA**

8F, Infra-Tower C  
DLF Cyber City, DLF Phase II,  
Gurgaon - 122 002, Haryana - India  
Tel: +91 124 4830100  
Fax: +91 124 4830173

**MMRC**

Engineers • Planners • Scientists • Economists  
A-15/16, Kohinoor City,  
1250 23rd St. NW  
Washington, DC 20037  
USA

**MUMBAI METRO RAIL CORPORATION LTD.**

Namitr Building, Plot No. R-13, 'E' Block,  
Bandra Kurla Complex, Bandra (East), Mumbai 400051.

Drawing Title :

**PROPOSED AAREY DEPOT  
COVERED STABLING SHED 2  
GATE DETAIL**

Drawing No. : MML3-CBS/MMRC/IC/DEP/AR/807

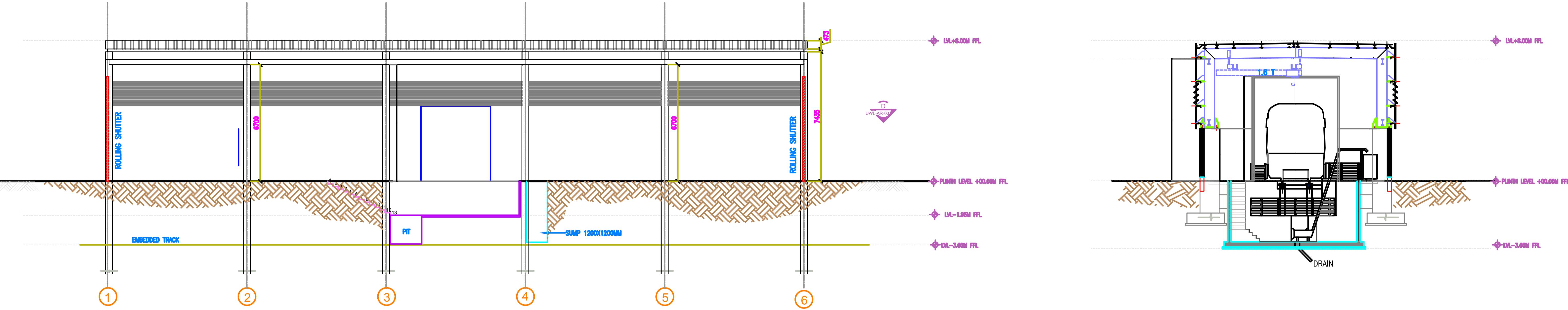
Rev. R2

DWG Status D

P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing

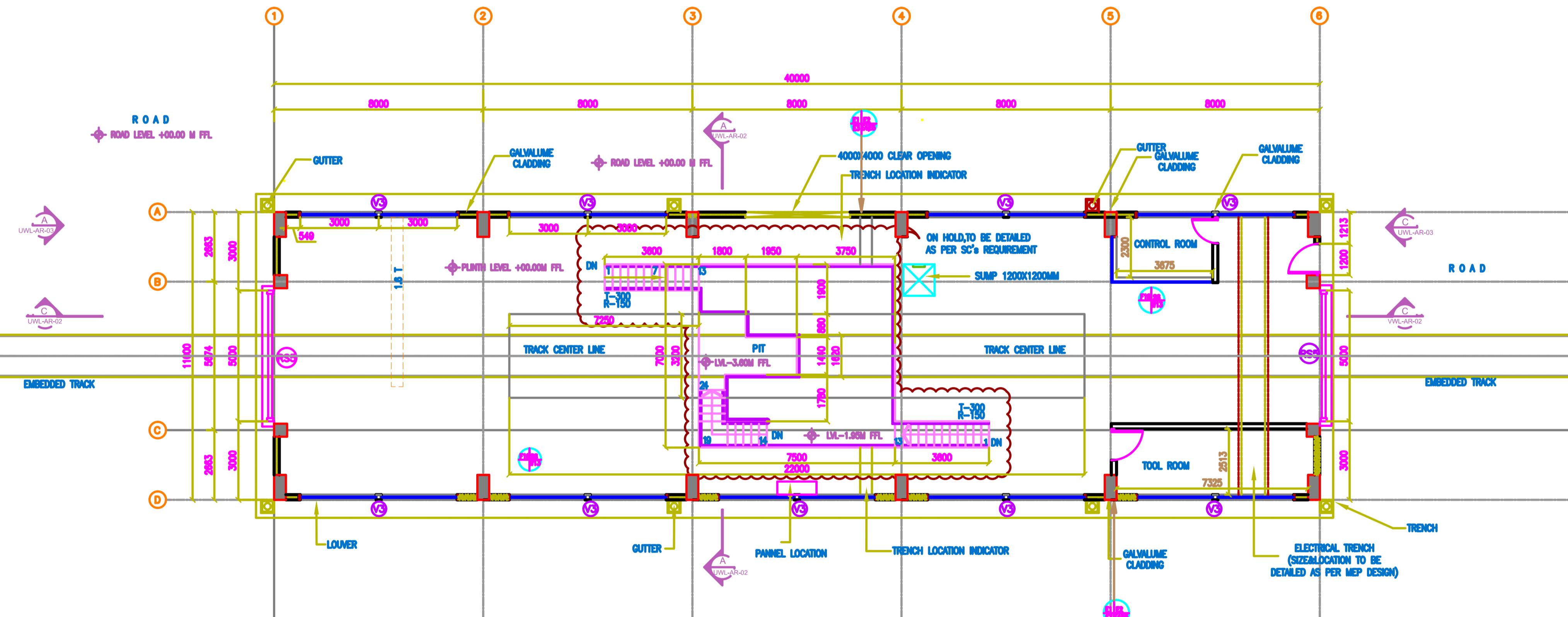
CAD File Name : MML3-CBS/MMRC/IC/DEP/AR/807.DWG

Page 76



**SECTION C-C**

**SECTION A-A**



**PLAN**

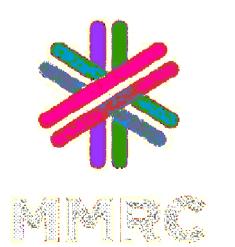
**NOTE:-**

- THE FINAL DIMENSIONS SHOULD BE ADJUSTED ACCORDING TO THE SUPPLIER'S MACHINES AND EQUIPMENTS.

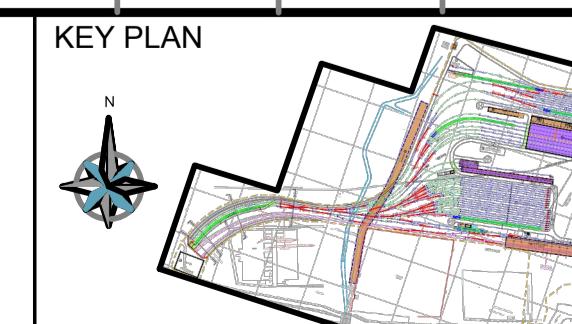
Door Type	Width (in mm)	Cill Ht. (in mm)	Lintel Ht. (in mm)	Fire Rating	Vision panel	Panic bar	Type	No. of leaves	Numbers		Window Type	Width (in mm)	Cill Ht. (in mm)	Lintel Ht. (in mm)	Fire Rating	Type	No. of leaves	Numbers	
		(from FFL)	(from FFL)	(in hours)					Ground level	Total			(from FFL)	(from FFL)	(in hours)			Ground level	Total
D3	1020	0	2100	-	-	-	Steel Door	1	3	3	V3	6000	3000	4000	-	SMP Louvers			
D9	3000	0		-	-	-		2			V1	500	900		-				
RS5	5000	0	5200	-	-	-	Rolling Shutter	1	2	2	V5	3000	900	2100	-	Fixed Glass	1	1	
											W7	2000	900	2100	-	Fixed Glass	9	9	

Location	Code	Flooring	Code	Skirting	Code	Internal Walls
Maintenance area	F19	RCC with Hardened trimix concrete flooring	S6	Kota Stone	W13	Block work with Plaster & Oil bound distemper
Office	F2a	Vetribed Tiles(600X600)	S2	Vetribed Tiles	W1	Block work with Plaster & Acrylic emulsion paint
External Wall	E1/E2/E3/E4/E5					Brick work/Plaster/External paint/Louver/Gal alum Cladding

REV	DATE	PREP.	APPROVED	DESCRIPTION



DETAIL DESIGN CONSULTANCY SERVICES  
FOR MUMBAI METRO RAIL PROJECT, LINE No. 3  
COLABA-BANDRA-SEEPZ



NAME

SIGN

DRAWN BY

AK

DESIGN BY

APPROVED BY

STRUCTURE-STEEL+RCC  
FOR INFORMATION ONLY

PROJECT:- MUMBAI METRO LINE 3  
COLABA-BANDRA-SEEPZ  
TITLE:- UNDER FLOOR WHEEL LATHE  
PLAN & SECTIONS  
SCALE:- AS SHOWN (A3) DATE:- OCT, 2016 DRAWING NO.:- MML3-CBS/MMRC/I/C/DEP/AR/1101



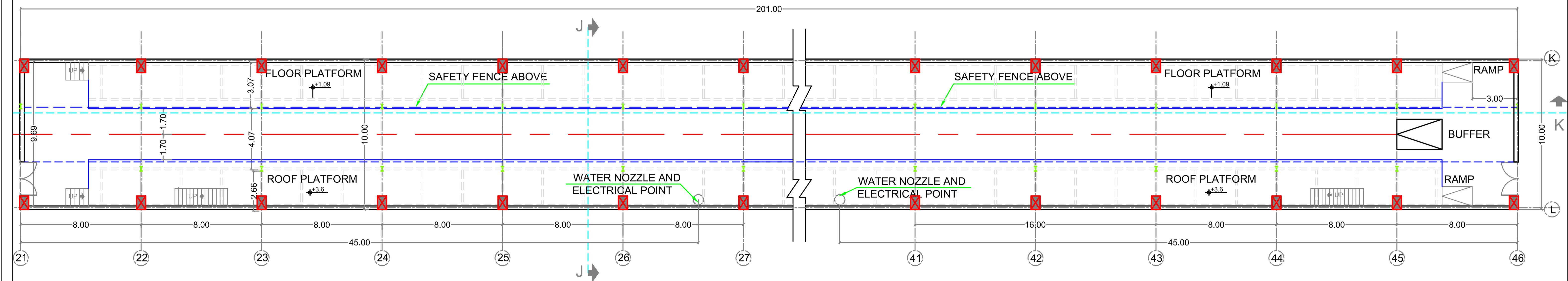
PADEC Co. Ltd.  
Shin-Osaka City, 1-1-15 Shinbashi,  
6-11-9 Shinbashi,  
Minato-ku,  
Tokyo 105-0004 Japan  
Tel: +81-3-5733-0855  
Fax: +81-3-5733-0856



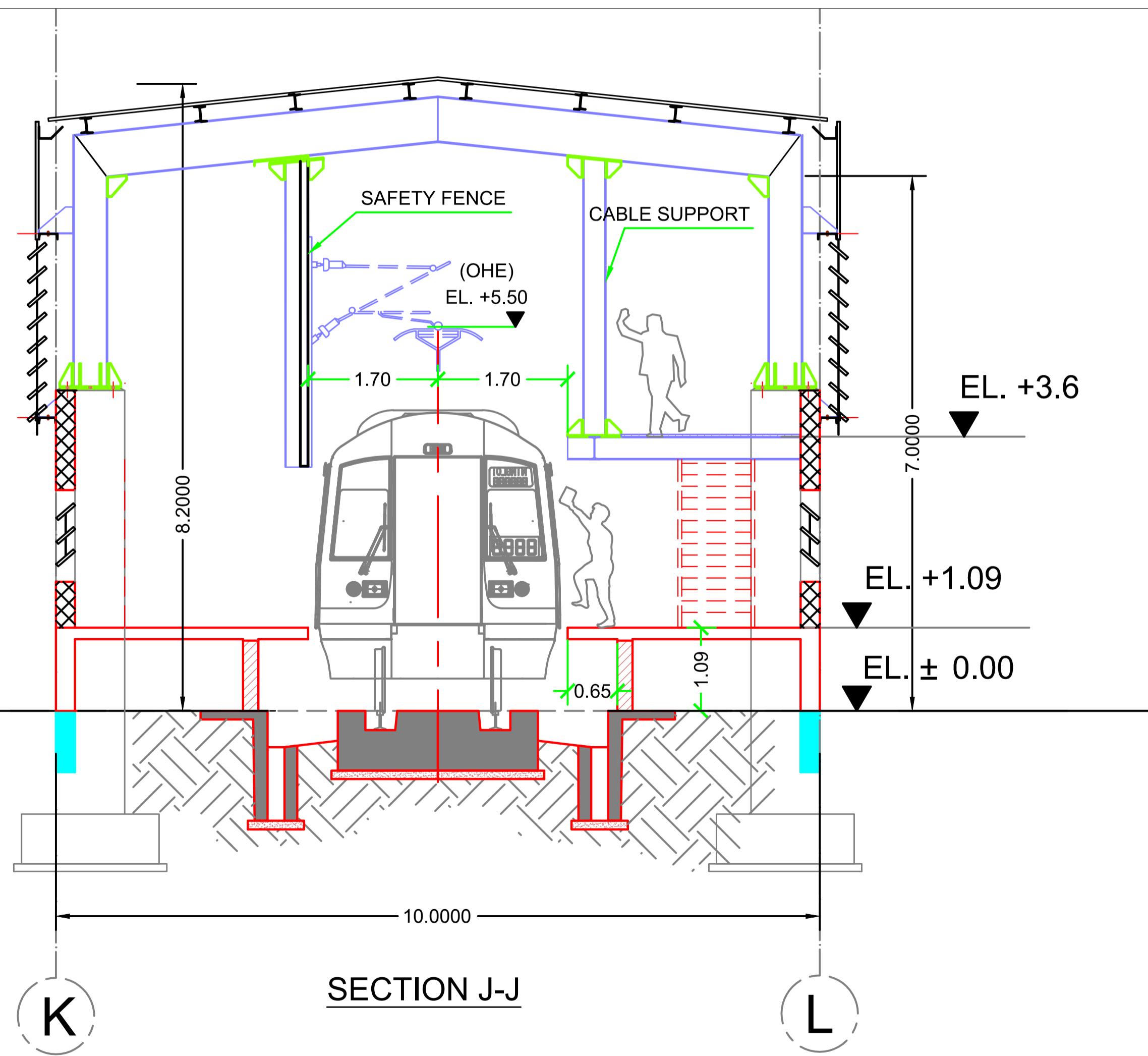
AECOM  
9/F, Infinity Tower C,  
DLF Cyber City, Phase -II,  
Gurgaon - 122 002, Haryana, India  
Tel: +91 124 4830100  
Fax: +91 124 4830373



THE Louis Berger Group, Inc., USA  
Engineers • Planners • Scientists • Economists  
1250 23rd St. NW  
Washington, DC 20037,  
USA  
A-615/616, Kohinoor City,  
Kurla (W), Mumbai 400098  
India



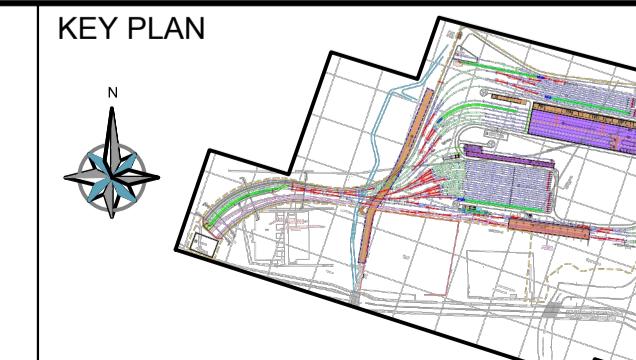
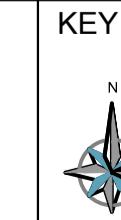
**GROUND FLOOR PLAN**



**SECTION J-J**



DETAIL DESIGN CONSULTANCY SERVICES  
FOR MUMBAI METRO RAIL PROJECT, LINE No. 3  
COLABA-BANDRA-SEEPZ



NAME SIGN

DRAWN BY

DESIGN BY

APPROVED BY

**STRUCTURE-STEEL+RCC**

**FOR INFORMATION ONLY**

PROJECT:- MUMBAI METRO LINE 3  
COLABA-BANDRA-SEEPZ

TITLE:- HEAVY WASHING SHED  
PLAN AND SECTION

SCALE:- 1:250 (A3) DATE:- OCT, 2016 DRAWING NO.:- MML3-CBS/MMRC/IC/DEP/AR/1201



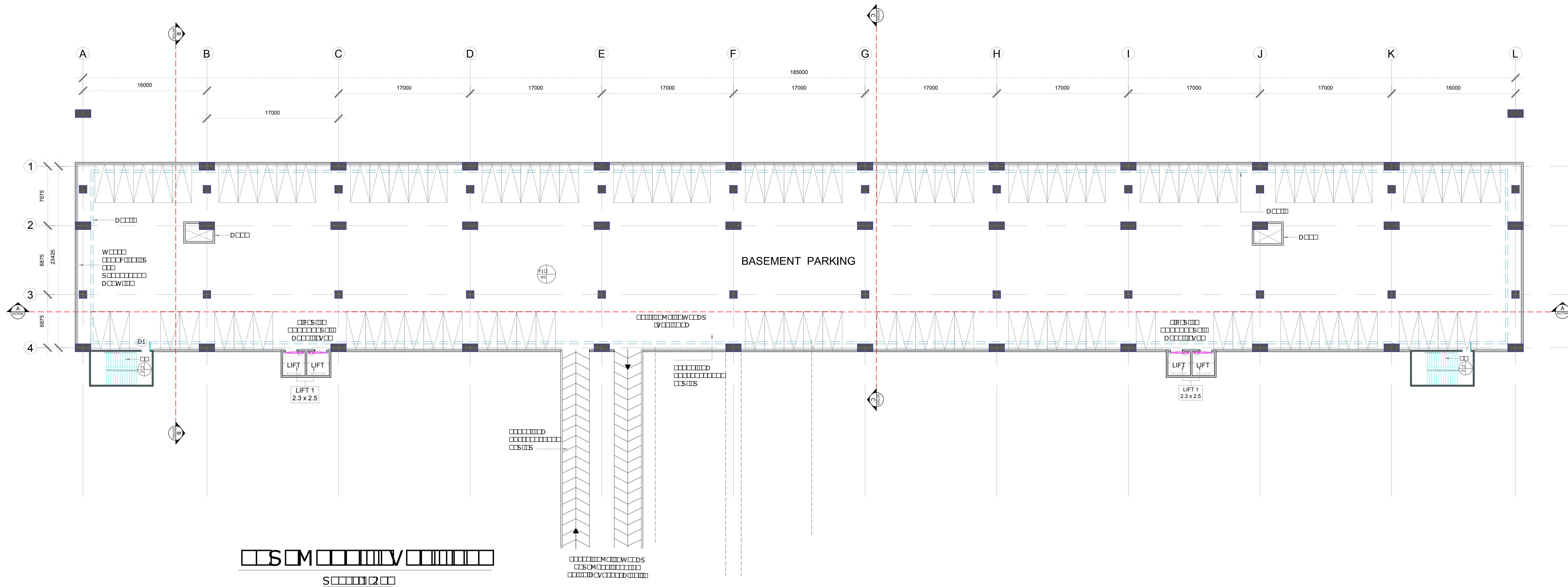
PADEC Co., Ltd.  
Shin-Onarimpo Bldg.  
6-17-19 Shinbashi,  
Minato-ku  
Tokyo 105-0004 Japan  
Tel: +81-3-5733-0855  
Fax: +81-3-5733-0856

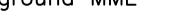


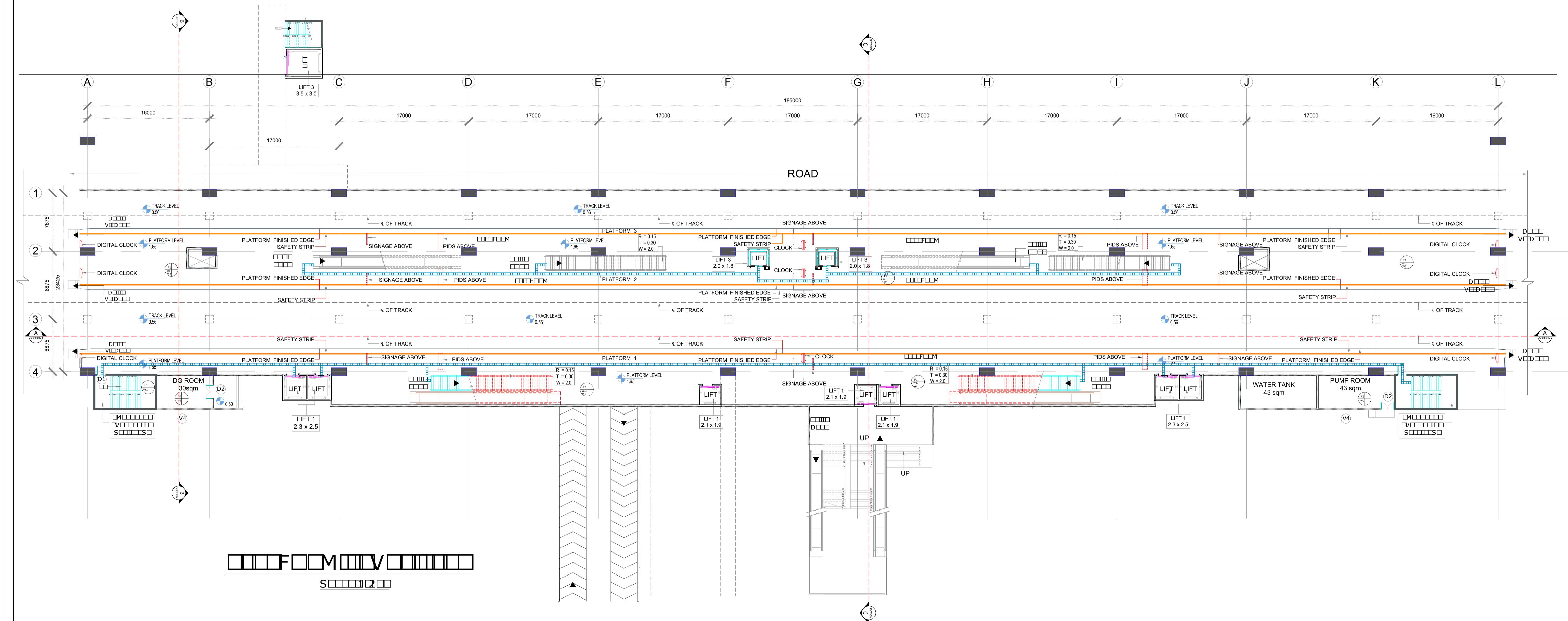
9/F, Infinity Tower C,  
DLF Cyber City, DLF Phase -II,  
Gurgaon - 122 002, Haryana - India  
Tel: +91 124 4830100  
Fax: +91 124 4830373



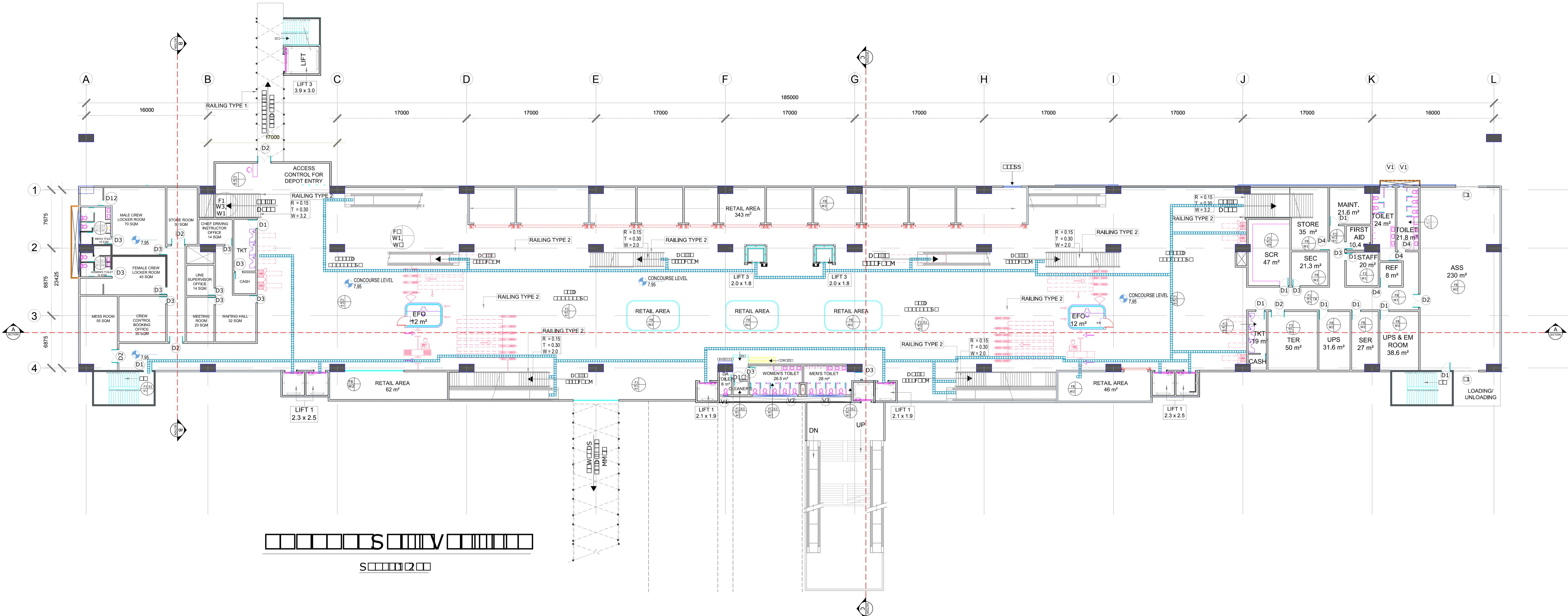
Engineers • Planners • Scientists • Economists  
1260 23rd St. NW  
Washington, DC 20037, USA  
A 615/616, Kohinoor City,  
Kurla (W), Mumbai 400098, India



REFERENCE DRAWINGS :-	FOR INFORMATION ONLY	General Consultants :	MUMBAI METRO RAIL CORPORATION LTD.	
X-REF FILES :-		IC / Detailed Design Consultant :	Namttri Building, Plot No. R-13, 'E' – Block, Bandra Kurla Complex, Bandra (East), Mumbai 400051.	
NOTES :-		PADECO		
		AECOM		
		THE Louis Berger Group , Inc., USA Engineers • Planners • Scientists • Economists		
		PADECO Co., Ltd. Shin-Onarimon Bldg. 6-17-19 Shinbashi, Minato-ku Tokyo 105-0004 Japan Tel: +81-3-5733-0855 Fax: +81-3-5733-0856	9/F, Infinity Tower C, DLF Cyber City, DLF Phase -II, Gurgaon – 122 002, Haryana – India Tel : +91 124 4830100 Fax: +91 124 4830373	
		Notification :		
		<input type="checkbox"/> A	<input type="checkbox"/> B	<input type="checkbox"/> C
		As noted in the DSR No. _____ dated _____		
		Project Title : Mumbai Metro Line – 3 Detailed Design Consultancy and Construction for Depot of Underground MML – 3		
		A : Objection. A complete resubmission is required. B : No Objection with comments. C : Notice of No objection.		
		Designed : AK	Checked : KT	Approved : SC
				
		Assessor	Discipline Leader	Engineer
		2		
		P – Preliminary, D – Definitive, C – Construction Reference, W – Working Drawing		
		Scale :	Drawn : SP	Date :
		AS SHOWN		15.01.2018
		Rev.	Date	Drawn
		Description		
		Designed	Checked	Approved
		CAD File Name : MML3-CBS/MMRC/IC/DEP/AR/1501.dwg		
		Page 79		



REFERENCE DRAWINGS :-	FOR INFORMATION ONLY	General Consultants :  MUMBAI METRO LINE - 3 GENERAL CONSULTANT	IC / Detailed Design Consultant :  PADECO PADECO Co., Ltd. Star One Tower, Tower C, Shinjuku, Tokyo 160-0022, Japan Tel: +81-3-5733-0855 Fax: +81-3-5733-0856	 AECOM AECOM 8F, Inter. Tower C, Star One Tower, Shinjuku, Tokyo 160-0022, Japan Tel: +81-3-5733-0855 Fax: +81-3-5733-0856	 THE LOUIS BERGER GROUP, INC. USA Engineers • Planners • Scientists • Economists DLF City, DLF Phase II, Gurgaon - 122 002, Haryana - India Tel: +91 124 4830100 Fax: +91 124 4830175	MUMBAI METRO RAIL CORPORATION LTD. Namrati Building, Plot No. R-13, 'E'- Block, Bandra Kurla Complex, Bandra (East), Mumbai 400051.
X-REF FILES :-		Notification : <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C	As noted in the DSR No. _____ dated _____	A : Objection. A complete resubmission is required. B : No Objection with comments. C : Notice of No objection.	Project Title : Mumbai Metro Line - 3 Detailed Design Consultancy and Construction for Depot & Underground MML - 3	Drawing Title :
NOTES :-		Assessor Discipline Leader Engineer	3	Designed : AK Checked : KT Approved : SC	Drawn : SP Date : 15.01.2018	AAREY DEPOT STATION & ASS 27 PLATFORM LEVEL PLAN
		-- -- --	2	Scale : -- -- --	Rev. R0 DWG Status P	
		1 DD.MM.YYYY	--	AS SHOWN	Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing	CAD File Name : MML3-CBS/MMRC/IC/DEP/AR/1502.dwg
		Rev. Date Drawn	Description	Designed Checked Approved	Date : 15.01.2018	Page 80



REFERENCE DRAWINGS :-

X-REF FILES :-

NOTES :-

FOR INFORMATION ONLY

General Consultants :



Notification :

A     B     C

As noted in the DSR No. \_\_\_\_\_ dated \_\_\_\_\_

A : Objection. A complete resubmission is required.  
B : No Objection with comments.  
C : Notice of No objection.

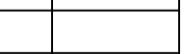
Assessor   Discipline Leader   Engineer

--   --   --

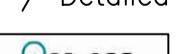
Rev. Date Drawn

Description

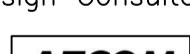
IC / Detailed Design Consultant :



PADECO Co., Ltd  
Star Onelemen Bldg  
6-17-19 Shinjuku  
Minato-ku  
Tokyo 102-0052  
Tel: +81-3-5733-0855  
Fax: +81-3-5733-0856



DLF City, Sector 21  
Gurgaon - 122 002, Haryana - India  
Tel: +91 124 4830100  
Fax: +91 124 4830175



The Louis Berger Group, Inc. USA  
Engineers • Planners • Scientists • Economists  
1250 23rd St. NW  
Washington, DC 20037  
Kurta (W), Mumbai 400088  
India



MMRC  
Namrati Building, Plot No. R-13, 'E'- Block,  
Bandra Kurba Complex, Bandra (East), Mumbai 400051.

Drawing Title :

### AAREY DEPOT STATION & ASS 27 CONCOURSE LEVEL PLAN

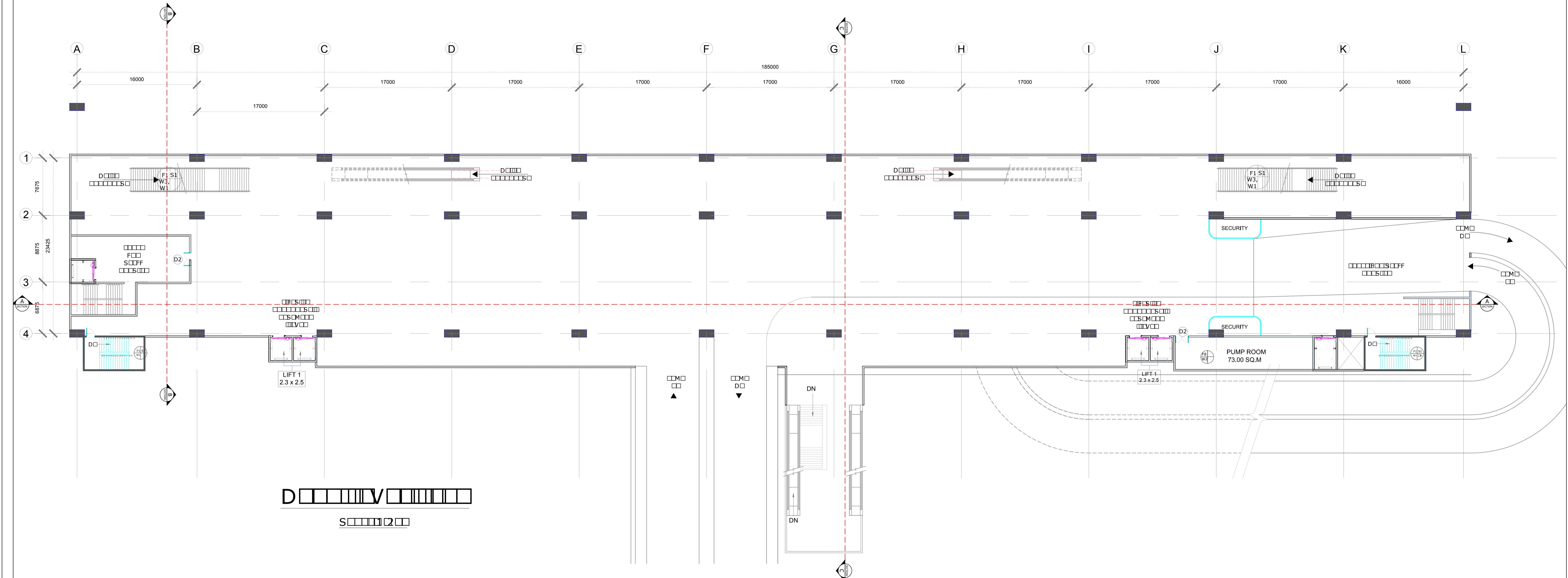
Drawing No. : MML3-CBS/MMRC/IC/DEP/AR/1503

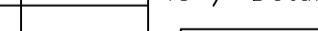
Rev. R0 DWG Status P

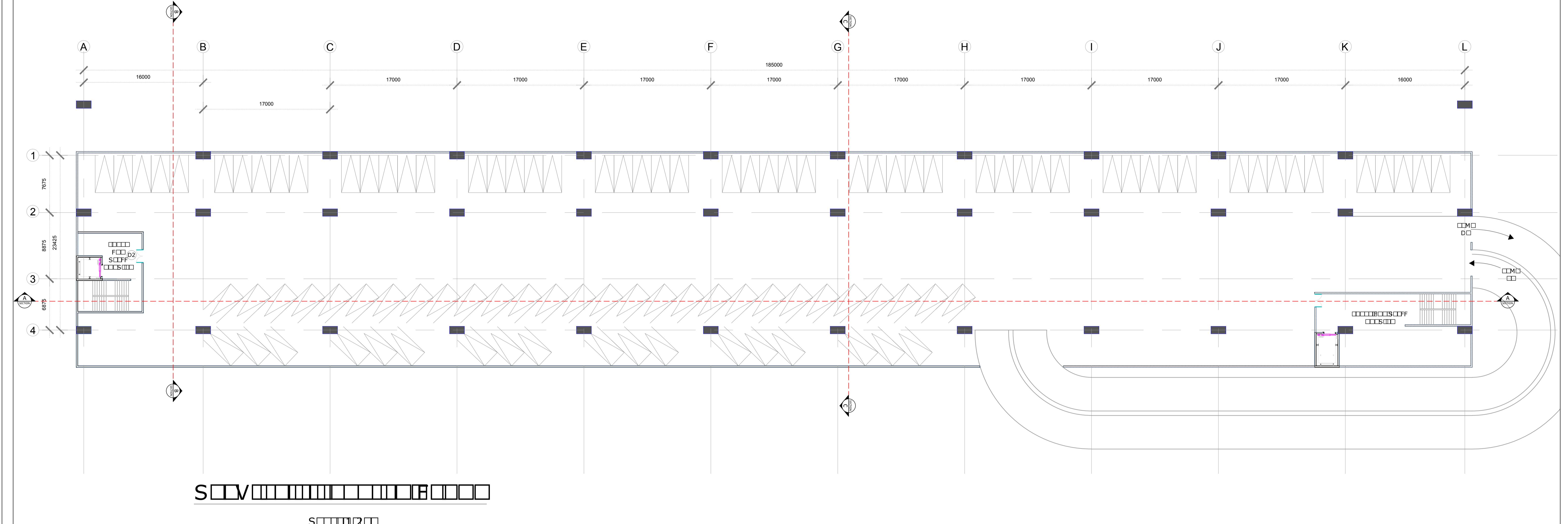
P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing

CAD File Name : MML3-CBS/MMRC/IC/DEP/AR/1503.dwg

Page 81



REFERENCE DRAWINGS :-		FOR INFORMATION ONLY			General Consultants :					
X-REF FILES :-										
NOTES :-										
										
										
										
					MUMBAI METRO RAIL CORPORATION LTD.					
					Namttri Building, Plot No. R-13, 'E'- Block, Bandra Kurla Complex, Bandra (East), Mumbai 400051.					
					Drawing Title :					
					AAREY DEPOT STATION & ASS 27 DECK LEVEL PLAN					
					Notification :					
					<input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C					
					As noted in the DSR No. _____ dated _____					
					Project Title :  Mumbai Metro Line - 3  Detailed Design Consultancy and Construction for Depot of Underground MML - 3					
					A : Objection. A complete resubmission is required. B : No Objection with comments. C : Notice of No objection.					
					Drawing No. : MML3-CBS/MMRC/IC/DEP/AR/1504			Rev.	DWG Status	
								R0	P	
					Designed : AK	Checked : KT	Approved : SC			
										
					Assessor	Discipline Leader	Engineer			
					2					
					P	Preliminary	D-Definitive	C-Construction Reference	W-Working Drawing	
					1	DD.MM.YYYY	--	--	--	
					Scale :	Drawn : SP	15.01.2018	Date :		
					--	--	--	AS SHOWN	Designed	Checked
									Approved	
									Description	
										Page 82



S□M□□□□□□□□□□□□□

S□□□□□□□

REFERENCE DRAWINGS :-

X-REF FILES :-

NOTES :-

FOR INFORMATION ONLY

General Consultants :



MUMBAI METRO LINE - 3

GENERAL CONSULTANT

Notification :

A     B     C

As noted in the DSR No. \_\_\_\_\_

dated \_\_\_\_\_

A : Objection. A complete resubmission is required.

B : No Objection with comments.

C : Notice of No objection.

3

2

1 DD.MM.YYYY --

-- Rev. Date Drawn

Description

Designed Checked Approved AS SHOWN

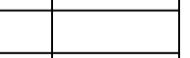
Scale : SP Date : 15.01.2018

Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing

CAD File Name : MML3-CBS/MMRC/IC/DEP/AR/1505.dwg

Page 83

IC / Detailed Design Consultant :



PADECO Co., Ltd.

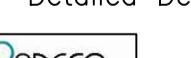
Shin-Osakemoto Bldg.

6-17-19 Shinonome,

Minato-ku, Tokyo, Japan

Tel: +81-3-5733-0855

Fax: +81-3-5733-0856



AECOM

8F, Inter, Tower C,

Shrikrishna City, DLF Phase-II,

Gurgaon - 122 002, Haryana - India

Tel: +91 124 4830100

Fax: +91 124 4830175



The Louis Berger Group, Inc. USA

Engineers • Planners • Scientists • Economists

1250 23rd St. NW

Arlington, VA 22203, USA

Washinton, DC 20037, USA

Kurla (W), Mumbai 400086, India

MUMBAI METRO RAIL CORPORATION LTD.

Namrati Building, Plot No. R-13, 'E'- Block,  
Bandra Kurla Complex, Bandra (East), Mumbai 400051.

Drawing Title :

AAREY DEPOT STATION & ASS 27  
SERVICE AND PARKING LEVEL PLAN

Drawing No. : MML3-CBS/MMRC/IC/DEP/AR/1505

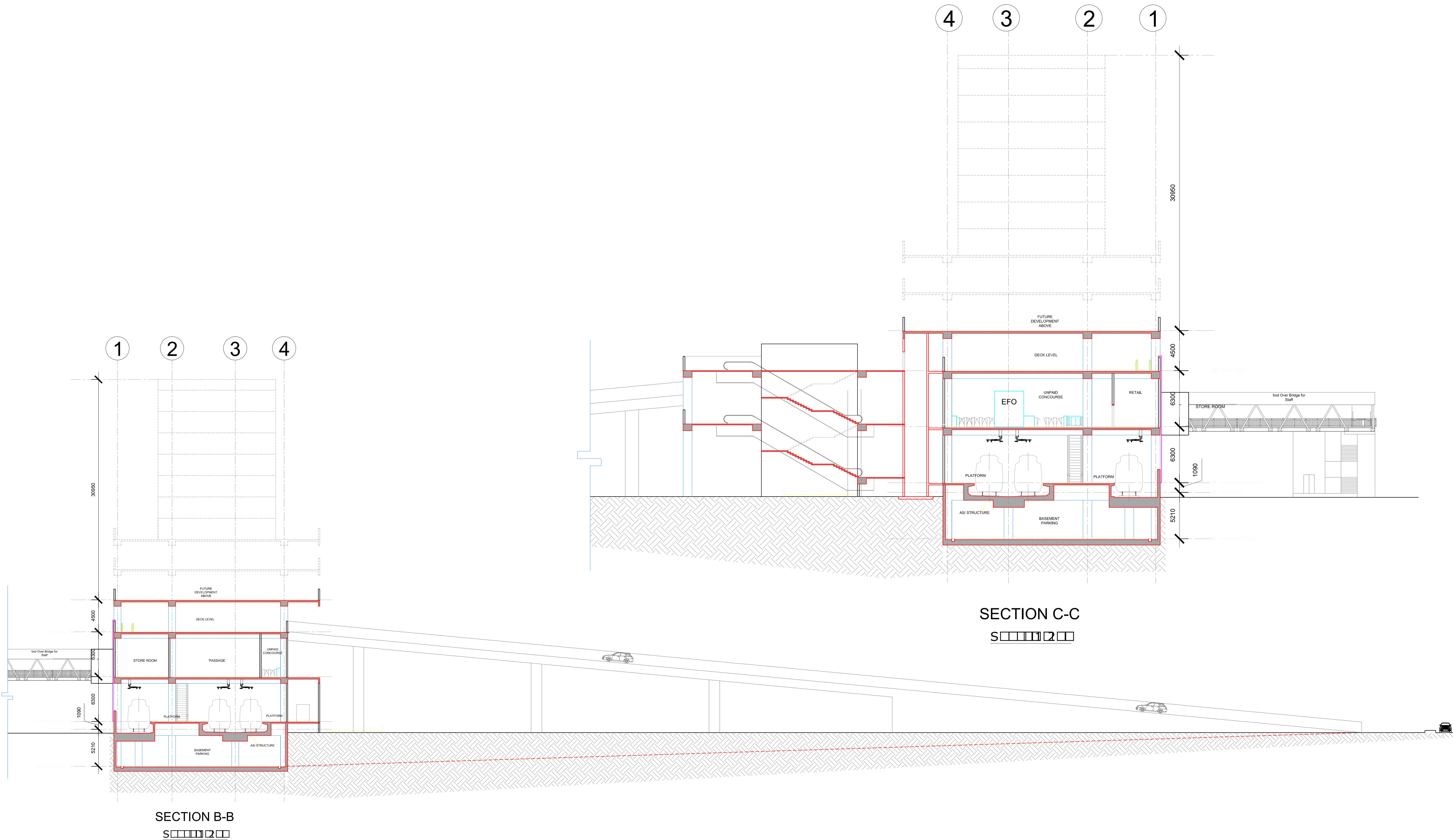
Rev. DWG Status

R0 P

P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing

CAD File Name : MML3-CBS/MMRC/IC/DEP/AR/1505.dwg

Page 83



REFERENCE DRAWINGS :-

X-REF FILES :-

NOTES :-

FOR INFORMATION ONLY

General Consultants :  
 **maple**  
 MUMBAI METRO LINE-3  
 GENERAL CONSULTANT

Notification :  
 A    B    C

As noted in the DSR No. \_\_\_\_\_  
 dated \_\_\_\_\_

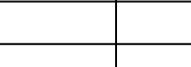
A : Objection. A complete resubmission is required.  
 B : No Objection with comments.  
 C : Notice of No objection.

Assessor   Discipline Leader   Engineer  
 3   2   1   DD.MM.YYYY   --   --

--   --   --   Rev. Date Drawn

Description

IC / Detailed Design Consultant :



PADECO Co., Ltd.  
 Shin-Onomichi Bldg.  
 6-17-19 Shinonome,  
 Minato-ku, Tokyo 105-0001  
 Japan  
 Tel: +81-3-5733-0855  
 Fax: +81-3-5733-0856



DLF City, Sector 77  
 Gurgaon - 122 002, Haryana - India  
 Tel: +91 124 4830100  
 Fax: +91 124 4830175



The Louis Berger Group, Inc. USA  
 Engineers • Planners • Scientists • Economists  
 1250 23rd St. NW, Washington, DC 20037  
 A-615/616, Kohinoor City, Kurla (W), Mumbai 400088  
 India

**MUMBAI METRO RAIL CORPORATION LTD.**  
 Namrati Building, Plot No. R-13, 'E'- Block,  
 Bandra Kurla Complex, Bandra (East), Mumbai 400051.

Drawing Title :

**AAREY DEPOT STATION & ASS 27**  
**SECTIONAL ELEVATION**

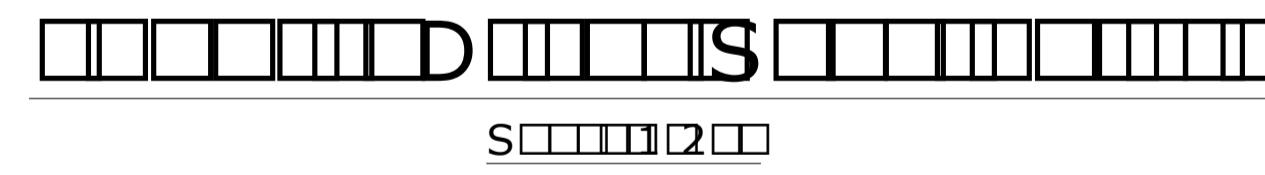
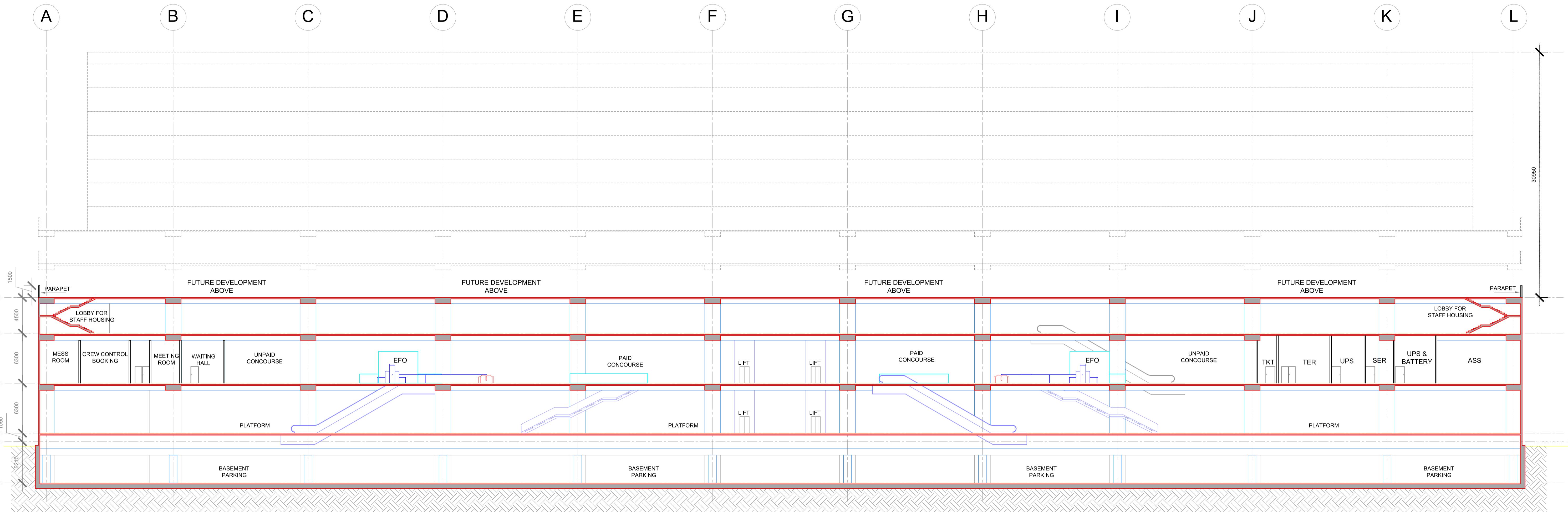
Drawing No. : MML3-CBS/MMRC/IC/DEP/AR/1506

Rev. DWG Status  
 R0 P

P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing

CAD File Name : MML3-CBS/MMRC/IC/DEP/AR/1506.dwg

Page 84



REFERENCE DRAWINGS :-

X-REF FILES :-

NOTES :-

FOR INFORMATION ONLY

General Consultants :



MUMBAI METRO LINE - 3

Notification :

A     B     C

As noted in the DSR No. \_\_\_\_\_

dated \_\_\_\_\_

A : Objection. A complete resubmission is required.

B : No Objection with comments.

C : Notice of No objection.

A : Objection. A complete resubmission is required.  
B : No Objection with comments.  
C : Notice of No objection.

3

Assessor Discipline Leader Engineer

2

1 DD.MM.YYYY --

-- Rev. Date Drawn

Description

Designed Checked Approved AS SHOWN

IC / Detailed Design Consultant :



Padecco Co., Ltd.

Shin-Osaki Bldg.

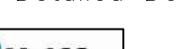
6-17-19 Shinonome,

Minato-ku,

Tokyo 105-0001 Japan

Tel: +81-3-5733-0855

Fax: +81-3-5733-0856



AECOM

8F, Inter, Tower C,

Star Oceanmen Bldg.

6-17-19 Shinonome,

Minato-ku,

Gurgaon - 122 002, Haryana - India

Tel: +91 124 4830100

Fax: +91 124 4830175



The Louis Berger Group, Inc., USA

Engineers • Planners • Scientists • Economists

1250 23rd St. NW

Arlington, VA 22209, USA

Washington, DC 20037, USA

Kurta (W), Mumbai 400088, India

MUMBAI METRO RAIL CORPORATION LTD.

Namrati Building, Plot No. R-13, 'E'- Block,  
Bandra Kurla Complex, Bandra (East), Mumbai 400051.

Drawing Title :

AAREY DEPOT STATION & ASS 27  
SECTIONAL ELEVATION

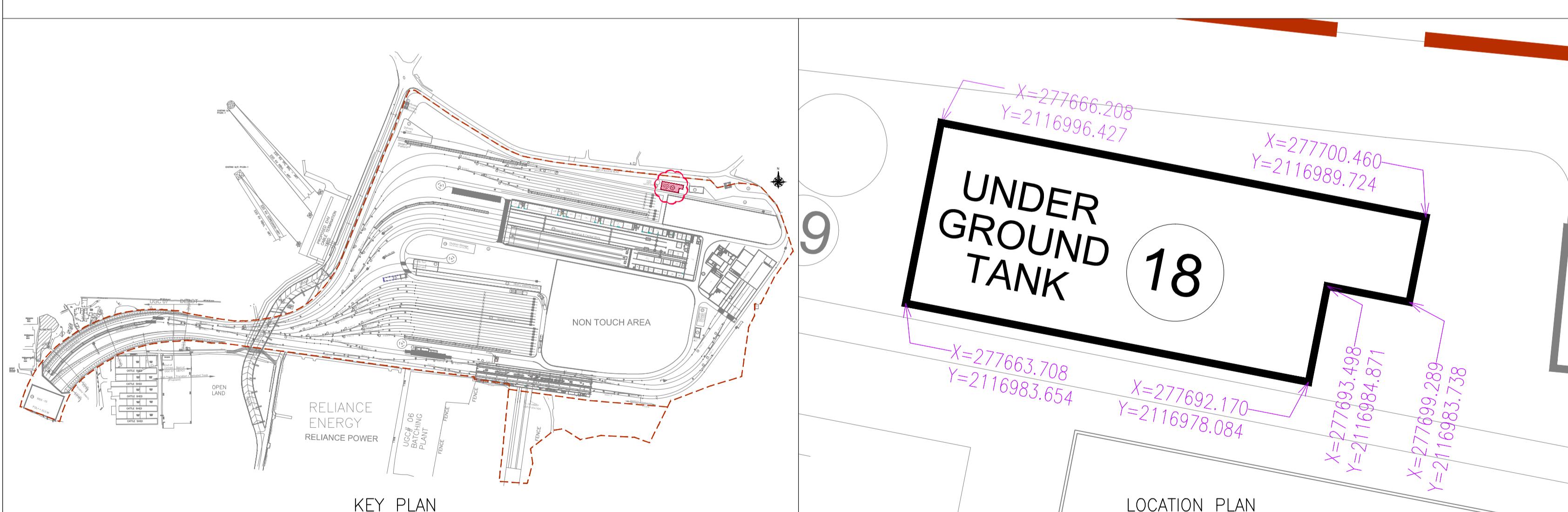
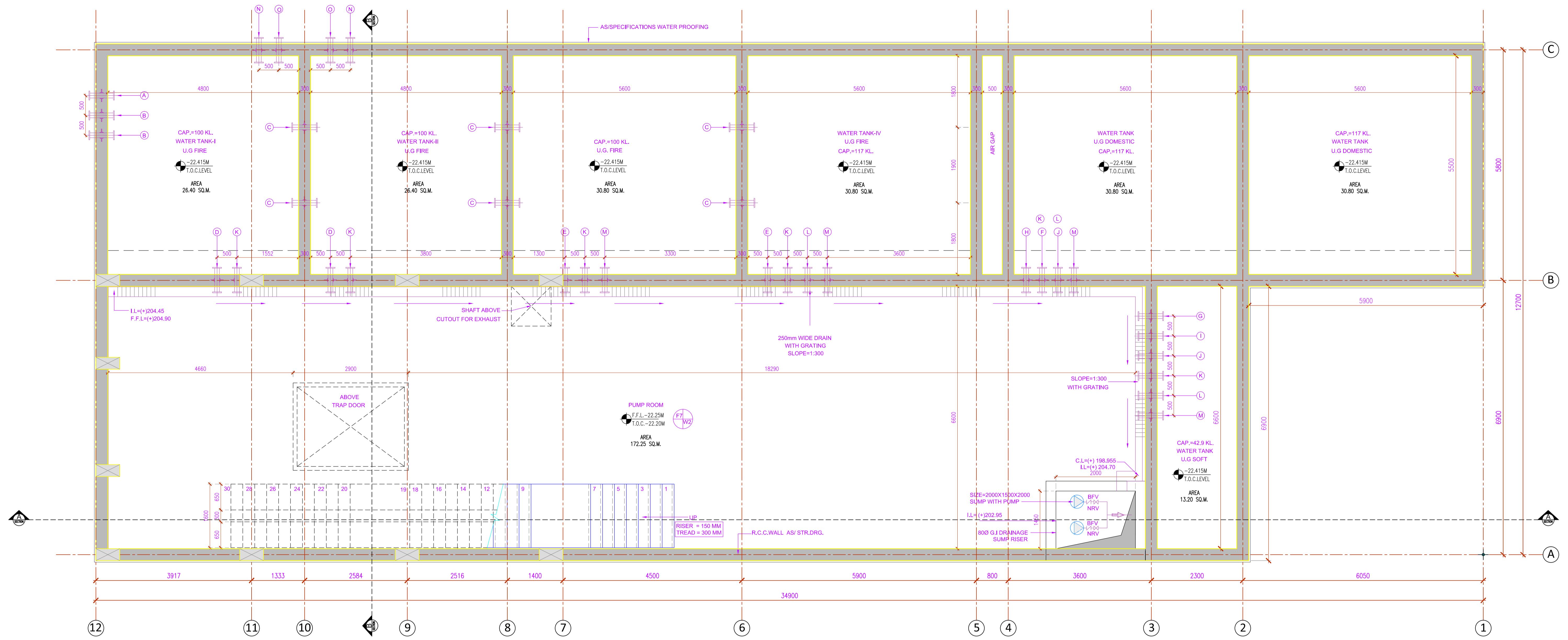
Drawing No. : MML3-CBS/MMRC/IC/DEP/AR/1507

Rev. R0 P

P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing

CAD File Name : MML3-CBS/MMRC/IC/DEP/AR/1507.dwg

Page 85



FLOORING		WALLS	
NAME	CODE	NAME	CODE
GRANITE	F1	ACRYLIC	WA
VETRIFIED TILES	F2	OBD	W
RAISED ACCESS FLOOR	F3	GRANITE	W
MODULAR WOOLEN CARPET	F4	SOUNDPROOF PANELS	W
TRIMIX WITH EPOXY COATING	F5	CERAMIC	W
WOODEN FLOORING	F6	WEATHER PROOF PAINT	W
HARDENED FLOOR WITH EPOXY COATING	F7	ALUMINUM COMPOSITE PANEL	W
CERAMIC TILES	F8	SAND BLASTED GRANITE	W

## REFERENCE DRAWINGS :-

## X-REF FILES :-

## NOTES :-

**FOR INFORMATION ONLY**



Notification :  A  B  C

is noted in the DSR No. \_\_\_\_\_

: Objection. A complete resubmission is required.  
: No Objection with comments.  
: No Motion of Non-Suit.

**Assessor**      **Discipline**      **Engineer**

## Ledger

\_\_\_\_\_

## LOCATION PLAN

IC / Detailed Design Consultant :



**MUMBAI METRO RAIL CORPORATION LTD.**  
NaMTTRI Building, Plot No. R-13, 'E' – Block,  
Bandra-Kurla Complex, Bandra (East), Mumbai 400051

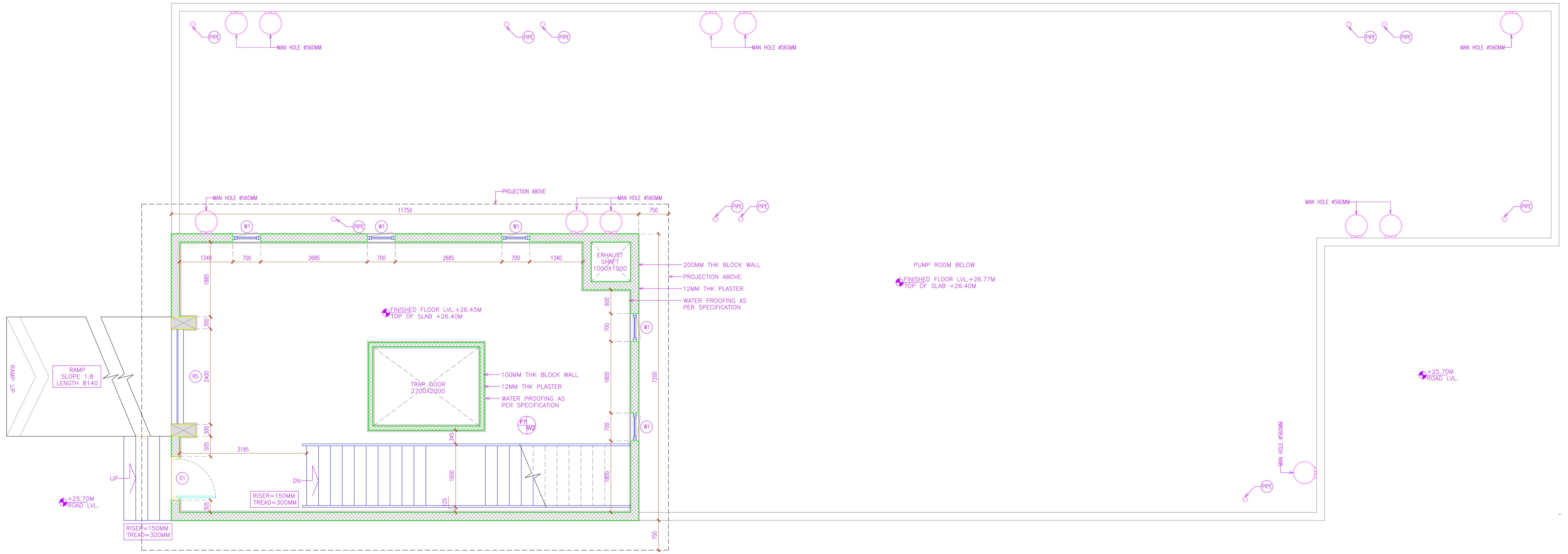
U.G.TANK BUILDING  
LOWED LEVEL PLAN

— 1 —

No. : DEPOT-ARP-D13-0001 Rev. DWS Status  
(MML3-CBS/MMRC/IC/DEPOT/AR/2001) A P

**S**eminar, **D**-Definitive, **C**-Construction Reference, **W**-Working Drawing

Page 86



FLOORING		WALLS	
NAME	CODE	NAME	CODE
GRANITE	F1	ACRYLIC	W1
VETRIFIED TILES	F2	OBID	W2
RAISED ACCESS FLOOR	F3	GRANITE	W3
MODULAR WOOLEN CARPET	F4	SOUNDPROOF PANELS	W4
TRIMIX WITH EPOXY COATING	F5	CERAMIC	W5
WOODEN FLOORING	F6	WEATHER PROOF PAINT	W6
HARDENED FLOOR WITH EPOXY COATING	F7	ALUMINUM COMPOSITE PANEL	W7
CERAMIC TILES	F8	SAND BLASTED GRANITE	W8

REFERENCE DRAWINGS :-

X-REF FILES :-

NOTES :-

#### FOR INFORMATION ONLY

General Consultants :  

**maple**  
 MUMBAI METRO LINE-3  
 GENERAL CONSULTANT

Notification :  
 A    B    C

As noted in the DSR No. \_\_\_\_\_ dated \_\_\_\_\_

A : Objection. A complete resubmission is required.  
 B : No Objection with comments.  
 C : Notice of No objection.

Assessor Discipline Leader Engineer

-- -- --

Rev. Date Drawn

Comments on 'R0' addressed

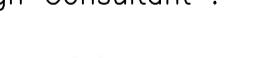
AK KT KT

AK KT KT

AK KT KT

AK KT KT

IC / Detailed Design Consultant :


**PADECO**   
**AECOM**

PADECO Co., Ltd  
 6-17-19 Shinonome Bldg.  
 Minato-ku, Tokyo, Japan  
 Tel: +81-3-5733-0865  
 Fax: +81-3-5733-0866

BF, Infra Tower C,  
 DLF Cyber City, DLF Phase-II,  
 Gurgaon - 122 002, Haryana - India  
 Tel: +91 124 4801000  
 Fax: +91 124 4830373

THE Louis Berger Group, Inc., USA  
 Engineers • Planners • Scientists • Economists  
 1250 23rd St. NW  
 Washington, DC 20037  
 Kurla (W), Mumbai 400088  
 India

Project Title : Mumbai Metro Line - 3

Detailed Design Consultancy and Construction for  
 Depot of Underground MML - 3

Designed : AK Checked : KT Approved : KT

Scale : 1:50 (A1) Drawn : AK

Date : 09.11.2017


**MUMBAI METRO RAIL CORPORATION LTD.**  
 NaMTTRI Building, Plot No. R-13, 'E'- Block,  
 Bandra Kurla Complex, Bandra (East), Mumbai 400051.

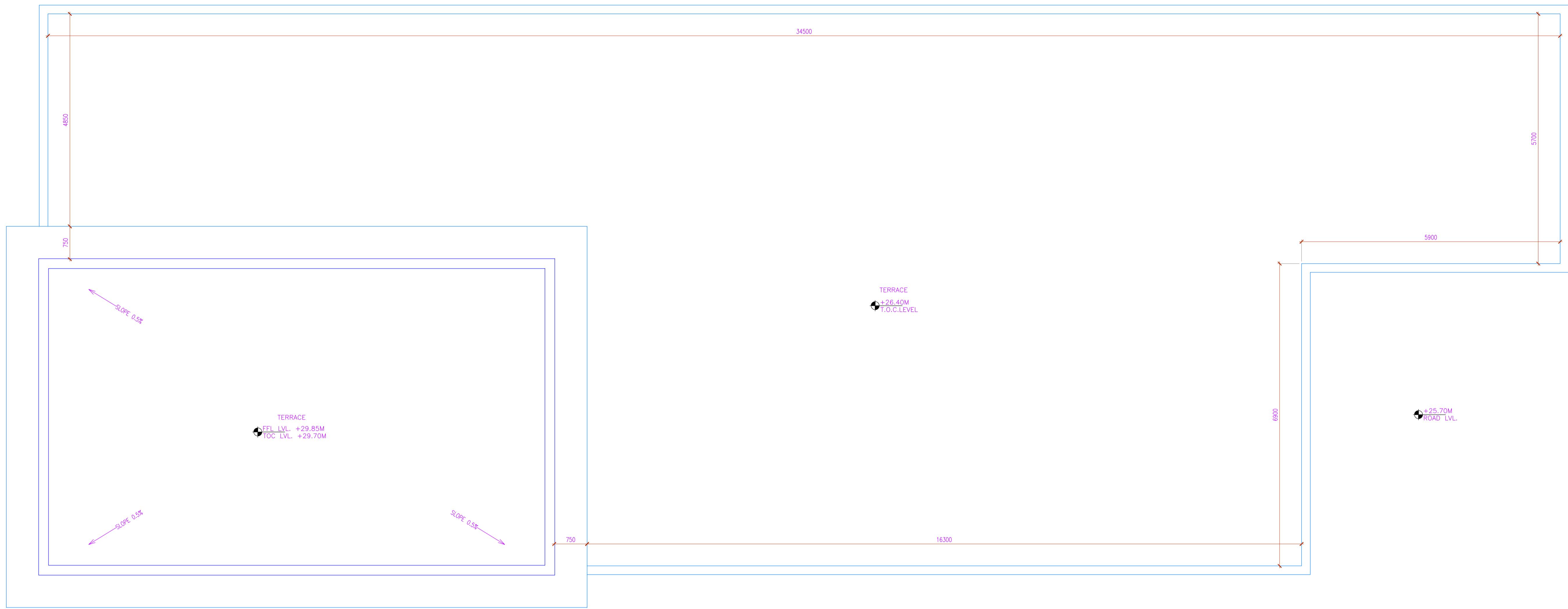
Drawing Title : U.G.TANK BUILDING  
 UPPER LEVEL PLAN

Drawing No. : DEPOT-ARP-D13-0002  
 (MML3-CBS/MMRC/IC/DEPOT/AR/2002)

Rev. A DWG Status P

P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing

CAD File Name : DEPOT-ARP-D13-0002.dwg



REFERENCE DRAWINGS :-

X-REF FILES :-

NOTES :-

**FOR INFORMATION ONLY**

General Consultants :



Notification :

A     B     C

As noted in the DSR No. \_\_\_\_\_  
dated \_\_\_\_\_

A : Objection. A complete resubmission is required.  
B : No Objection with comments.  
C : Notice of No objection.

Assessor   Discipline Leader   Engineer

--   --   --

Rev. Date Drawn

Comments on 'R0' ADDRESSED

IC / Detailed Design Consultant :



PADECO

AECOM

PADECO Co., Ltd

Shin-Onarimon Bldg.

6-17-19 Shinonome,

Tokyo 105-0004 Japan

Tel: +81 3-5733-0865

Fax: +81 3-5733-0866

8/F, Infiniti Tower C,

DLF Cyber City, DLF Phase - II,

Gurgaon - 122 002, Haryana - India

Tel: +91 124 4801000

Fax: +91 124 4830373

1250 23rd St. NW, Washington, DC 20037

Kurla (W), Mumbai 400088

THE Louis Berger Group, Inc., USA

Engineers • Planners • Scientists • Economists

1250 23rd St. NW, Washington, DC 20037

Kurla (W), Mumbai 400088



**MUMBAI METRO RAIL CORPORATION LTD.**  
NaMTTRI Building, Plot No. R-13, 'E'- Block,  
Bandra Kurla Complex, Bandra (East), Mumbai 400051.

Drawing Title :

U.G.TANK BUILDING  
TERRACE LEVEL PLAN

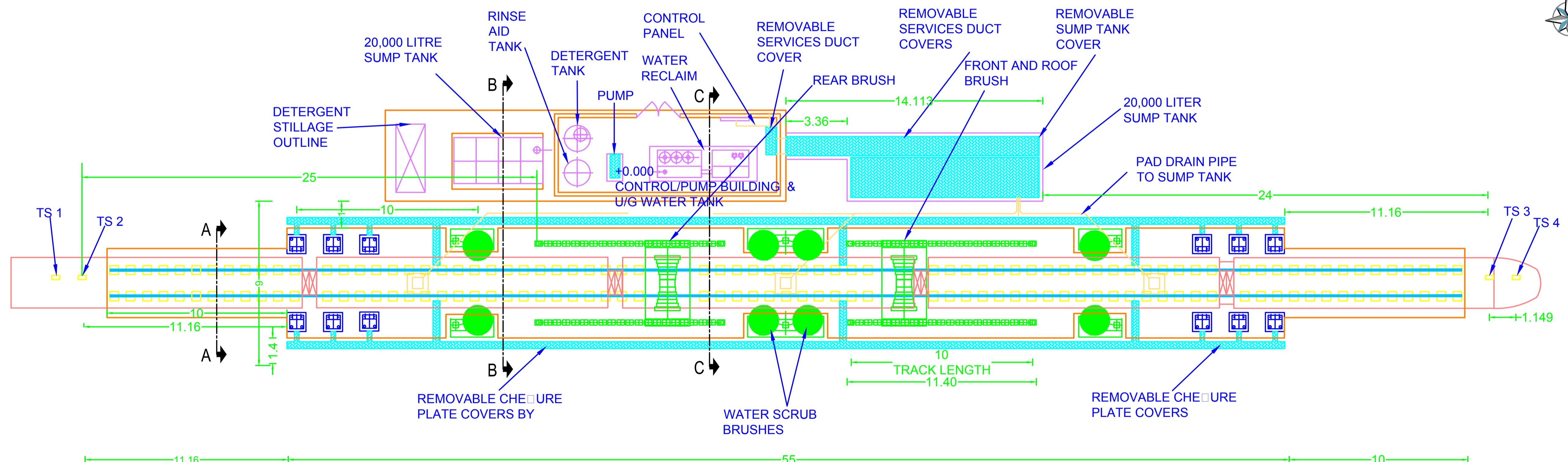
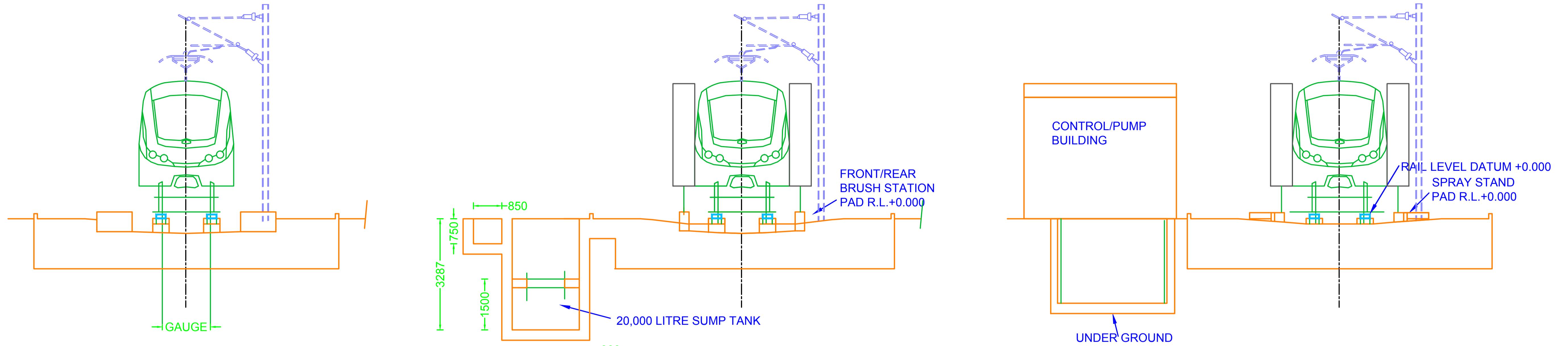
Drawing No. : DEPOT-ARP-D13-0003  
(MML3-CBS/MMRC/IC/DEPOT/AR/2003)      Rev. A P

P-Preliminary, D-Definitive, C-Construction Reference, W-Working Drawing

CAD File Name : DEPOT-ARP-D13-0003.dwg

Page 88



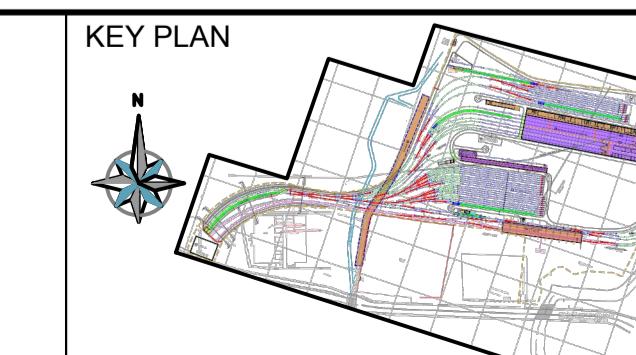


NOTES:-

1. ALL DIMENSION SHOULD BE VERIFIED WITH MACHINE CONTRACTOR BEFORE EXECUTION OF WORKS.

CIVIL WORKS CONTRACTOR	
TRACK CONTRACTOR	
DEPOT E&PT. CONTRACTOR	

REV.	DATE	PREP.	APPROVED	DESCRIPTION
PADECO				
PADECO Co., Ltd. Shin-Charimori Bldg. 6-17-19 Shinbashi, Minato-ku Tokyo 105-0004 Japan Tel: +81-3-5733-0855 Fax: +81-3-5733-0856				THE Louis Berger Group , Inc., USA Engineers • Planners • Scientists • Economists 1250 23rd St. NW Washington, DC 20037, USA Kurla (W), Mumbai 400098 India



DRAWN BY	NAME	SIGN
DESIGN BY	KT	
APPROVED BY		

FOR INFORMATION ONLY

PROJECT:- MUMBAI METRO LINE 3  
COLABA-BANDRA-SEEPZ  
TITLE:- PLAN & SECTIONS  
AUTOMATIC TRAIN WASH GENERAL  
ARRANGEMENT  
SCALE:- 1:250 (A3) DATE:- NOV\1\2013 DRAWING NO.:- MML3-CBS/MMRC/IC/DEPOT/AR/1401