

# C620 – Signalling Area 5 Scheme Plan

**CRL Document Number: C620-SIC-R2-DWG-CR001-50050**

**Supplier Document Number: N/A**

**Contract MDL reference A10.041**

## 1. Contractor Document Submittal History:

Revision:	Date:	Prepared by:	Checked by:	Approved by:	Reason for Issue:
9.0/EG	26-11-2019				For acceptance

## 2a. Stakeholder Review Required? YES ☐ NO ☒

Stakeholder submission required: LU ☐ RfL ☐ Purpose of submission: For no objection ☐  
 NR ☐ LO ☐ For information ☐  
 DLR ☐ Other: \_\_\_\_\_

This document has been reviewed by the following individual for coordination, compliance, integration and acceptance and is acceptable for transmission to the above stakeholder for the above stated purpose.


Sign: \_\_\_\_\_ Role: \_\_\_\_\_ Name: \_\_\_\_\_ Date: \_\_\_\_\_

Sign: \_\_\_\_\_ Role: \_\_\_\_\_ Name: \_\_\_\_\_ Date: \_\_\_\_\_

## 2b. Review by Stakeholder (if required):

Stakeholder Organisation	Job Title	Name	Signature	Date	Acceptance
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>

## 3. Acceptance by Crossrail:

	<b>Crossrail Review and Acceptance Decal</b> This decal is to be used for submitted documents requiring acceptance by Crossrail.			
<input type="checkbox"/>	Code 1.	Accepted. Work May Proceed	Reviewed / Accepted by:	
<input checked="" type="checkbox"/>	Code 2.	Not Accepted. Revise and resubmit. Work may proceed subject to incorporation of changes indicated	Name:	[Redacted]
<input type="checkbox"/>	Code 3.	Not Accepted. Revise and resubmit. Work may not proceed	Position:	Sig Lead Eng
<input type="checkbox"/>	Code 4.	Received for information only. Receipt is confirmed	Date:	24/04/2020
Acceptance by Crossrail does not relieve the designer/supplier from full compliance with their contractual obligations and does not constitute Crossrail approval of design, details, calculations, analyses, test methods or materials developed or selected by the designer/supplier.			Signature:	[Redacted]



## Document History

Rev. CRL	Date	SRA Rev.	Chapter	Reason for Issue:
1.0	05-06-2015	A	N/A	First submission.
2.0	16-10-2015	B	N/A	Design updates.
3.0	18-01-2016	C	N/A	Addressing Crossrail comments, generic updates including new or revised information.
4.0	15-07-2016	D	N/A	Updated to Crossrail comments made against Rev C/3.0.
5.0	15-05-2017	EA	N/A	Rev V Alignment (PMI-00146) and pedestrian crossing position updates.
6.0	15-09-2017	EB	N/A	New Stratford area shown. Crossrail comments addressed, GEML DIR v3.0 incorporated.
7.0	28-03-2018	EC	N/A	Revision to extent of TDB, transition board position updates.
	05-04-2018	ED	N/A	Addition of revised Crossrail chainage and gradients.
8.0	03-06-2019	EE	N/A	CCF 0487, 0525, 0527 and CFX logs and Crossrail comments against rev 7.0.
9.0	24-09-2019	EF	N/A	CCF 0601, CCF 0605, speed banding and Crossrail comments against v8.0.
	26-11-2019	EG	N/A	PMI-0445 and Crossrail comments. Neutral section board updates.

## Contents

Sheet Number/Reference	Rev.	Sheet Title
SJ58/GEN/M/059	N/A	Modification Front Sheet.
C620-SIC-R2-DDE-CR001-00004	EF	Signalling Scheme Plan – Area 5; Stratford.
SJ58/GEN/M/062	N/A	Modification Front Sheet.
C620-SIC-R2-DDE-CR001-00004	EG	Signalling Scheme Plan – Area 5; Stratford.

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DESIGN DECISIONS: Use this section to record calculations and other factors relevant to making design decisions.		
ITEM No.	DETAILS	REMARKS
1.	The meeting minutes regarding the proposed new position of APC magnets do not reflect the updated position of the neutral section from the site survey, therefore PMI 00275 has not been carried out at this stage, APC magnets placed at standard distance and a note added to plan stating 'subject to site survey'.	Item transferred from SJ58/GEN/M/045. <i>Confirmation requested from test.</i>
2.		
3.		
4.		
5.		
6.		







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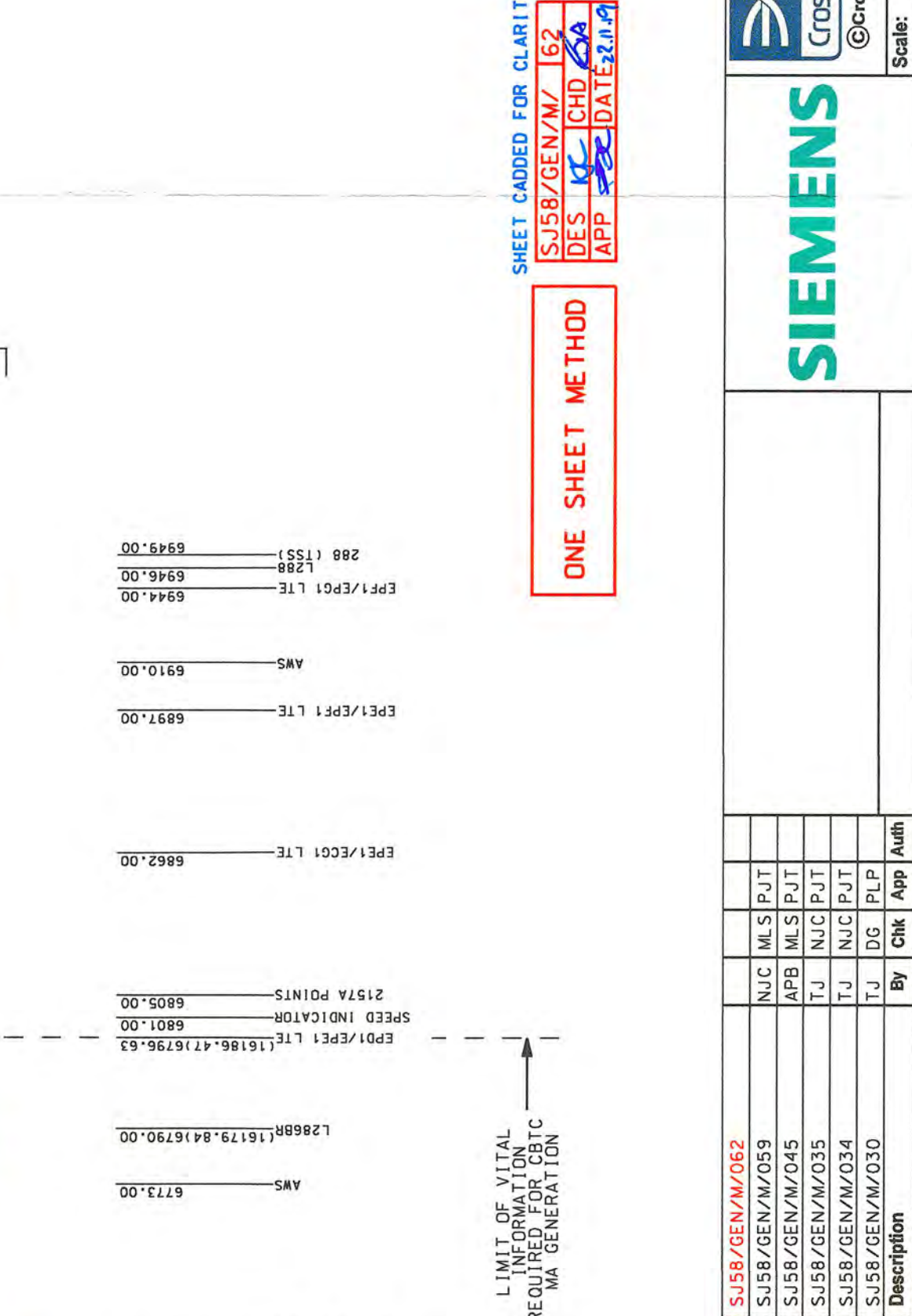
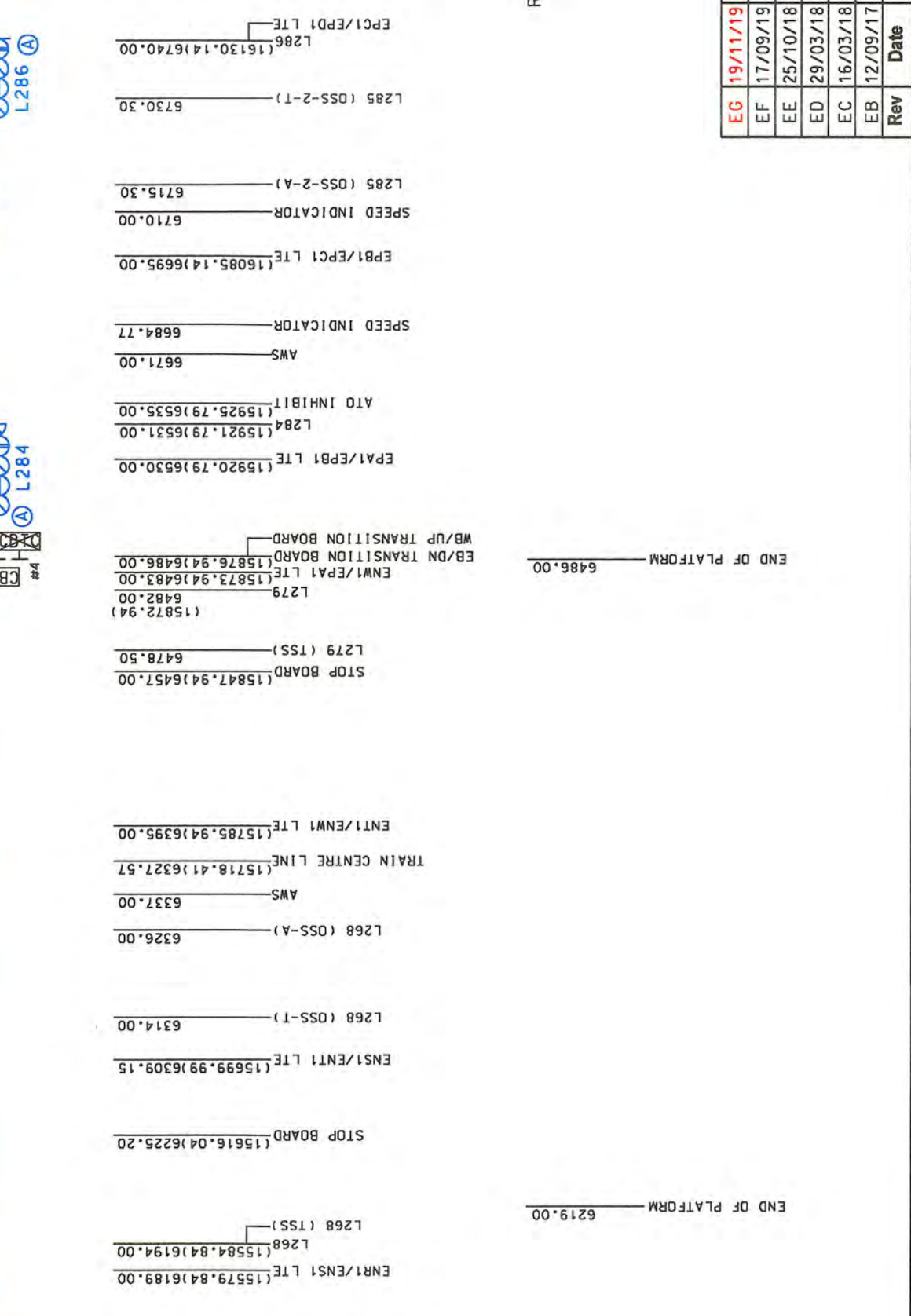
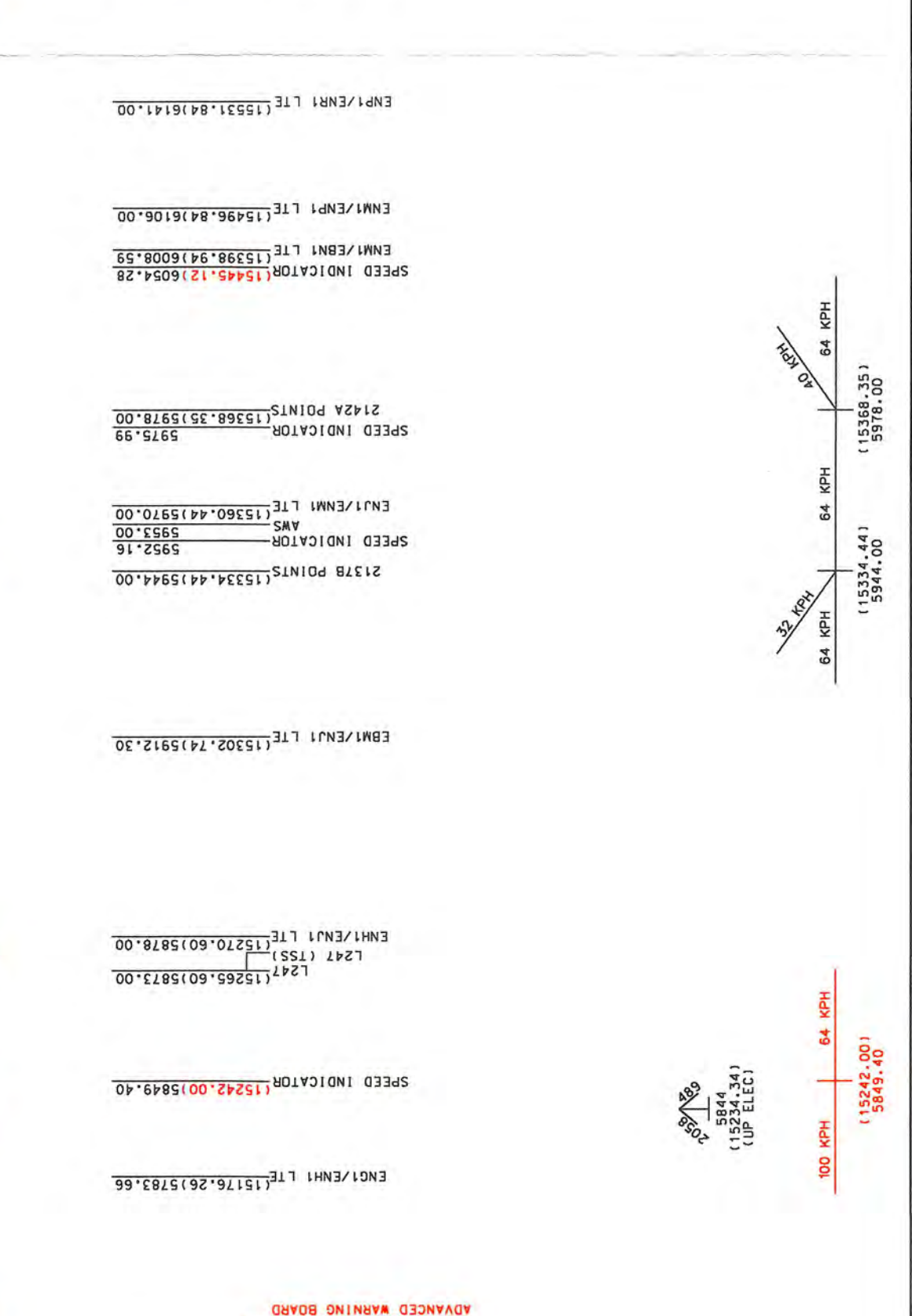
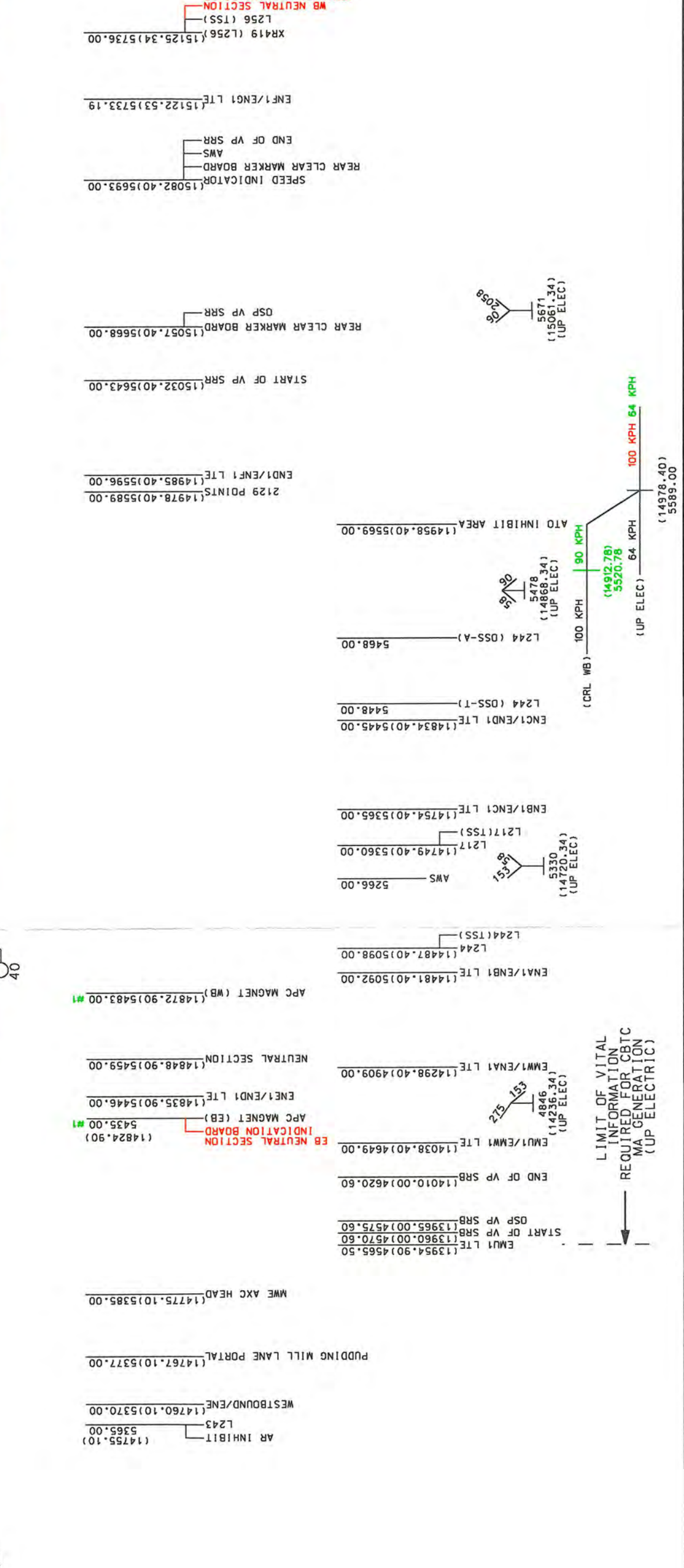
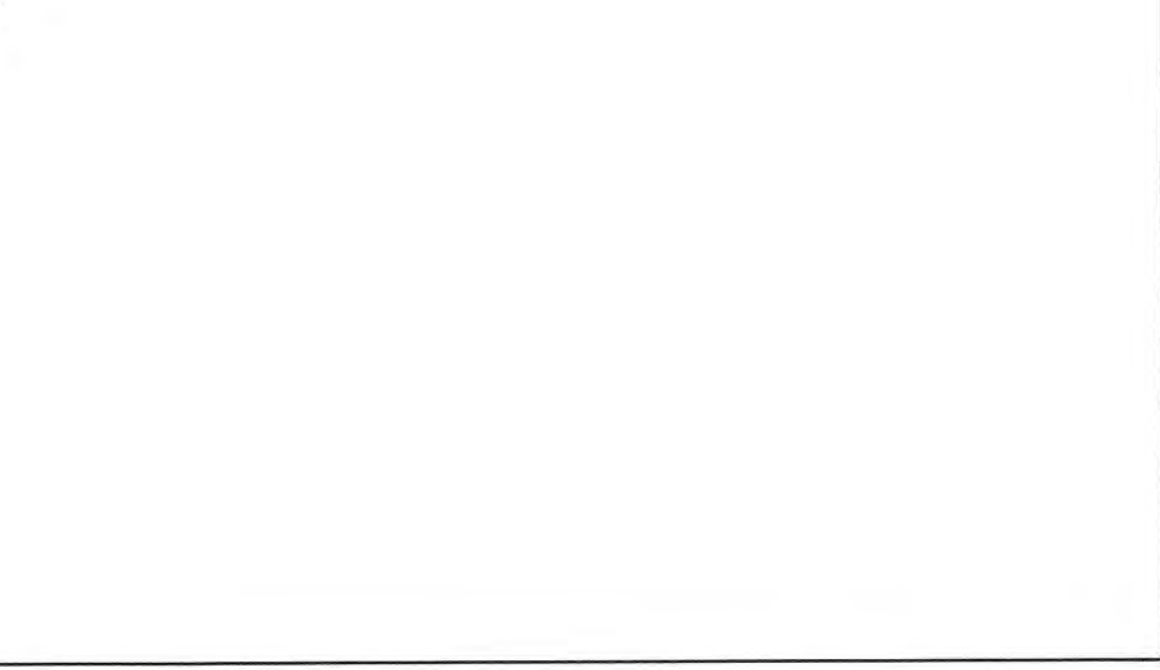
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Reference Documents used for this design:		
Previous update reference:	SJ58/GEN/M/059	
Doc. Number	Document Title	Document Version
APC2	Sighting Form – Neutral Section Indication East on Westbound	6
APC4	Sighting Form – Neutral Section Indication West on Eastbound	6
W419	Sighting Form – Neutral Section Advanced Warning West on Up Electric	6
PMI-0445	GEML Overlay Section all CBTC fitted trains Lines Speeds inputs	-
NOTE:	CHANGES NOT IN P-D+11.	

DESIGN DECISIONS: Use this section to record calculations and other factors relevant to making design decisions.		
ITEM No.	DETAILS	REMARKS
1.	No items transferred from previous modification SJ58/GEN/M/059	
2.	Sighting Forms W419 & W421 document the position of the same Neutral Section Advanced Warning board. W419 used for dimensioning.	
3.	Items 5a & 5b detail overlapping directional based line speeds (to/from COS). As the TGMT system can only cater for one line speed over a given area, the most restrictive speed has been selected where differing speeds overlap.	
4.		
5.		
6.		





MARKER BOARD NUMBER	ROUTE / DESTINATION	SPECIAL NOTES
XR419	A XR415	SLOT FOR L256
XR421	A XR417	SLOT FOR L238

**KEY:**

Y - LTE BOUNDARY

- - - - - LTE NAME

- - - - - TRACK SECTION NAME

- - - - - VIRTUAL PLATFORM (VP) NO. 1

**GENERAL NOTES:**

- 1) LTES SHOWN TO THE EXTENT OF CBTC ONBOARD TRACK DATABASE. CURRENTLY PLACED AT ALL TRACK BOUNDARIES.
- LTE BOUNDARY SYMBOL NOT SHOWN, AS EVERY OCCURRENCE COINCIDES WITH AN INSULATED RAIL JOINT.
- 2) THIS PLAN IS AN EXTRACT ONLY. IT SHOWS DETAIL RELEVANT TO THE INTERFACE BETWEEN CROSSRAIL & NETWORK RAIL GREAT EASTERN MAIN LINE. NETWORK RAIL ASSETS AND INFRASTRUCTURE - SHOWN IN BLUE. DIMENSIONS DERIVED FROM NETWORK RAIL SCHEME PLAN 11-SO-111/01. THIS MAY INTRODUCE A SMALL MARGIN OF ERROR. THESE DIMENSIONS ARE NOT CONSIDERED ACCURATE ENOUGH FOR THE TDB GENERATION. CROSSRAIL CHAINAGES ARE SHOWN IN BRACKETS ADJACENT TO THE ASSOCIATED NR CHAINAGE.
- 3) FOR INFORMATION REGARDING BALISE POSITIONING, REFER TO DOCUMENT C620-SIC-R2-ASP-CR001-SOI41
- BALISE TRAIN STOPPING POSITIONS
- 4) NETWORK RAIL/CROSSRAIL INTERFACE DETAILS
- TAKEN FROM C620-SIC-R2-ASP-CR001-SOI41 GEM DIR
- 5) AXLE COUNTER HEADS. STOPPING POSITIONS AND OVERLAPS ASSOCIATED WITH PROHIBITED STOPPING LOCATIONS (NEUTRAL SECTIONS, XPL EVACUATION WALKWAY (NOT SHOWN)) ARE POSITIONED ACCORDINGLY TO CATER FOR THE APPROPRIATE RESTRICTIONS
- 6) ALL LINE SPEEDS ARE SHOWN IN KPH. KPH HAS BEEN CONVERTED FROM MPH ON THE NR SCHEME PLAN. SPEED BOARDS IN NR AREA ARE IN SHOWN MPH.
- 7) **THE 35MPH PSR LOCATED AT CHAINAGE 5693.00 IS SPEED BOARDS IN NR AREA ARE ONLY INTENDED FOR USE BY TRAINS UNDER THE CONTROL OF THE NR LINESIDE SIGNALLING AND MAY NOT BE CONSISTENT WITH THE SPEED PROFILE USED BY THE CBTC SYSTEM**
- 8) STOPPING DISTANCE IS A MINIMUM OF 5M ON THE APPROACH TO NR SIGNALS
- 9) EVERY MARKER BOARD OR NR SIGNAL WITHIN THE CROSSRAIL AREA OF CONTROL IS FITTED WITH THE TGMT (ATC) TRAIN STOP FACILITY
- 10) NR SIGNAL OVERLAYS ARE A MINIMUM OF 45M

HASH NOTES:

- #1 SUBJECT TO SITE SURVEY NOTE NOT USED
- #2 XR423 IS A PHANTOM SIGNAL USED FOR CBTC SIEVING PURPOSES ONLY.
- #3 TRACK/FULL LINE TO BE REMOVED PARALLEL TO
- #4 TRACK/TRAIN TO BE REMOVED FROM AND STAY WITHIN
- #4 BOARDS MOUNTED AT END OF PLATFORM

**Contract:** C620 Signalling  
**Originator:** Siemens Rail Automation  
**Location:** Central Stations General  
**Title:** SIGNALLING SCHEME PLAN AREA 5 STRAITFORD

Drawing No: C620-SIC-R2-GDE-CR001-00004 Rev: EG EFF