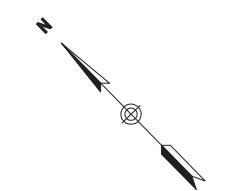
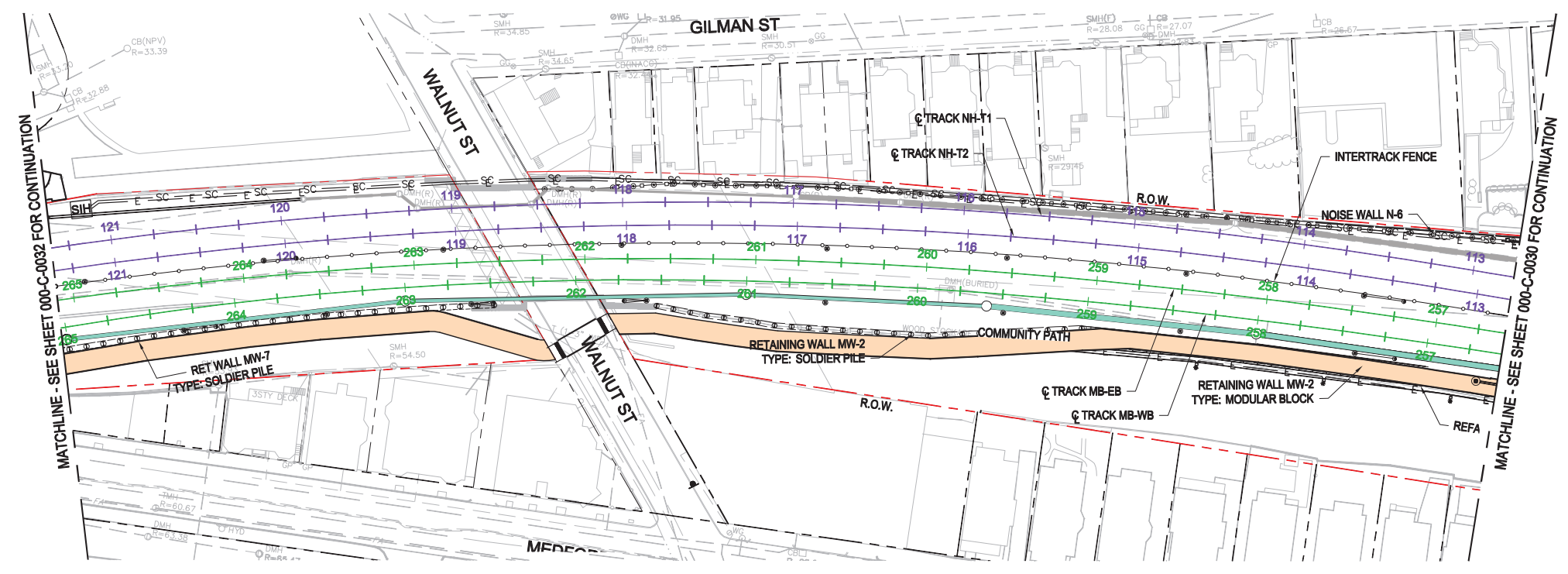
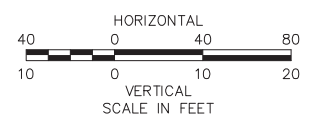


PLOTTED: 09/28/17 10:20AM BY: DESCHANE
 DRAWING: C:\USERS\DESCHANE\AppData\Local\Temp\ACPublish_8020\000-C-0031-0038.DWG [C-0031] 09/28/17 10:20AM



- LEGEND**
- DRAIN PIPE
 - PERFORATED DRAIN PIPE
 - UNDER DRAIN
 - DRAIN PIPE W/ UNDER DRAIN
 - PIPE SLEVE W/ DRAIN PIPE
 - BASE DESIGN CHANGE - DRAINAGE PIPE
 - BASE DESIGN CHANGE - DRAINAGE PIPE W/ UNDER DRAIN
 - BASE DESIGN CHANGE - EXIST DRAIN PIPE (TO REMAIN)
 - BASE DESIGN CHANGE - UNDER DRAIN
 - DRAIN MANHOLES/STRUCTURES
 - CATCH BASIN INLET
 - AREA DRAIN INLET
 - UNDER DRAIN MANHOLE
 - BASE DESIGN CHANGE - CLAY/RIPLEY DAM



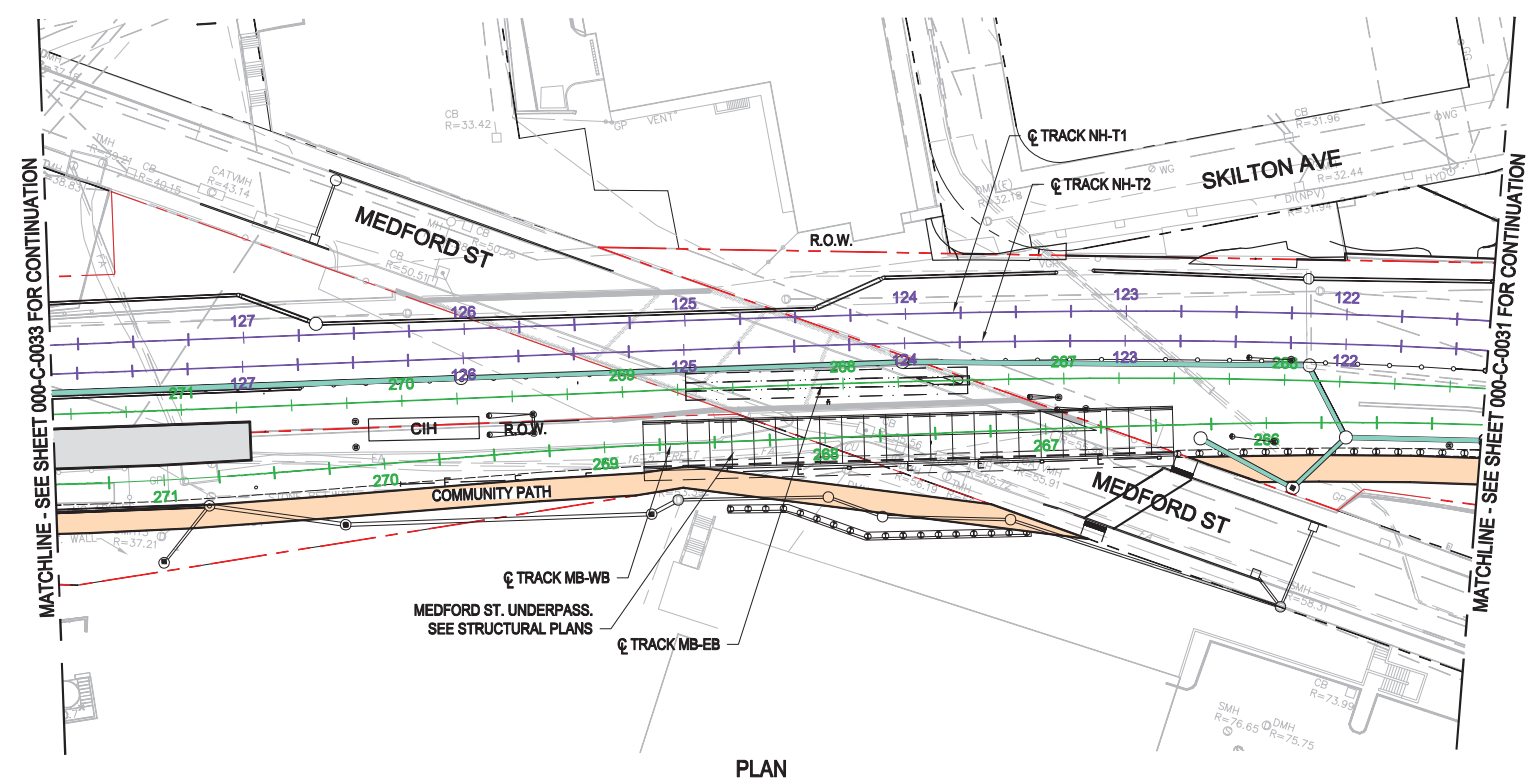
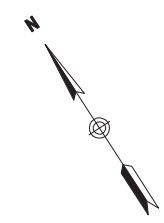
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
GREEN LINE EXTENSION DESIGN-BUILD PROJECT
 MBTA CONTRACT NO. E22CN07
 SOMERVILLE/MEDFORD, MASSACHUSETTS

MEDFORD BRANCH
DRAINAGE PLAN
 STA MB-EB 256+50 TO STA MB-EB 265+25

NOT FOR CONSTRUCTION

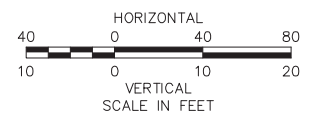
GLX	massDOT Massachusetts Department of Transportation	
	09/28/2017	TECHNICAL PROPOSAL
ISSUE	DATE	DESCRIPTION

Green Line Partners Lane • Si • Judlau • LMH-CMC JV			
SCALE: AS NOTED	DRAWN BY: SMD	DESIGN BY: SMD	CHECK BY: CD
DATE: 28SEPT2017	PLAN NO.	ISSUE	
	SHEET: 000-C-0031		



PLAN

- LEGEND**
- DRAIN PIPE
 - PERFORATED DRAIN PIPE
 - UNDER DRAIN
 - DRAIN PIPE W/ UNDER DRAIN
 - PIPE SLEVE W/ DRAIN PIPE
 - BASE DESIGN CHANGE - DRAINAGE PIPE
 - BASE DESIGN CHANGE - DRAINAGE PIPE W/UNDERDRAIN
 - BASE DESIGN CHANGE - EXIST DRAIN PIPE (TO REMAIN)
 - BASE DESIGN CHANGE - UNDER DRAIN
 - DRAIN MANHOLES/STRUCTURES
 - CATCH BASIN INLET
 - AREA DRAIN INLET
 - UNDER DRAIN MANHOLE
 - BASE DESIGN CHANGE - CLAY/RIPLEY DAM



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
GREEN LINE EXTENSION DESIGN-BUILD PROJECT
 MBTA CONTRACT NO. E22CN07
 SOMERVILLE/MEDFORD, MASSACHUSETTS

**MEDFORD BRANCH
 DRAINAGE PLAN**
 STA MB-EB 265+25 TO STA MB-EB 271+50

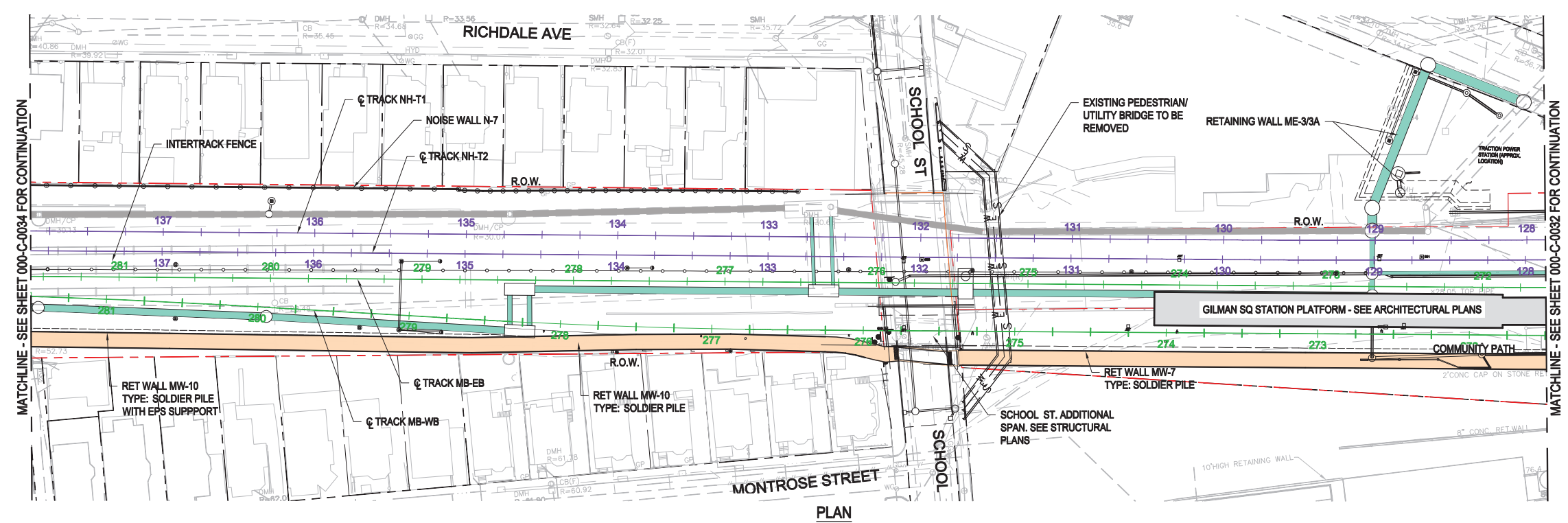
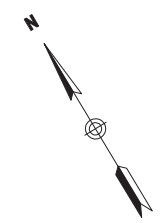
**NOT FOR
 CONSTRUCTION**



ISSUE	DATE	DESCRIPTION	BY	CHKD	APP.
0	09/28/2017	TECHNICAL PROPOSAL			

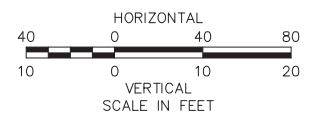
SCALE: AS NOTED	DRAWN BY: SMD	DESIGN BY: SMD	CHECK BY: CD	PLAN NO.	ISSUE
DATE: 28SEPT2017				SHEET: 000-C-0032	1

PLOTTED: 09/28/17 10:35AM BY: DESCHANE
 DRAWING: C:\USERS\DESCHANE\APPDATA\LOCAL TEMP\XPUBLISH_8020\000-C-0032-0038.DWG [C-0032] 09/28/17 10:20AM



PLAN

- LEGEND**
- DRAIN PIPE
 - PERFORATED DRAIN PIPE
 - UNDER DRAIN
 - DRAIN PIPE W/ UNDER DRAIN
 - PIPE SLEEVE W/ DRAIN PIPE
 - BASE DESIGN CHANGE - DRAINAGE PIPE
 - BASE DESIGN CHANGE - DRAINAGE PIPE W/ UNDER DRAIN
 - BASE DESIGN CHANGE - EXIST DRAIN PIPE (TO REMAIN)
 - BASE DESIGN CHANGE - UNDER DRAIN
 - DRAIN MANHOLES/STRUCTURES
 - CATCH BASIN INLET
 - AREA DRAIN INLET
 - UNDER DRAIN MANHOLE
 - BASE DESIGN CHANGE - CLAY/RIPLEY DAM



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
GREEN LINE EXTENSION DESIGN-BUILD PROJECT
 MBTA CONTRACT NO. E22CN07
 SOMERVILLE/MEDFORD, MASSACHUSETTS

**MEDFORD BRANCH
 DRAINAGE PLAN**
 STA MB-EB 271+50 TO STA MB-EB 281+50

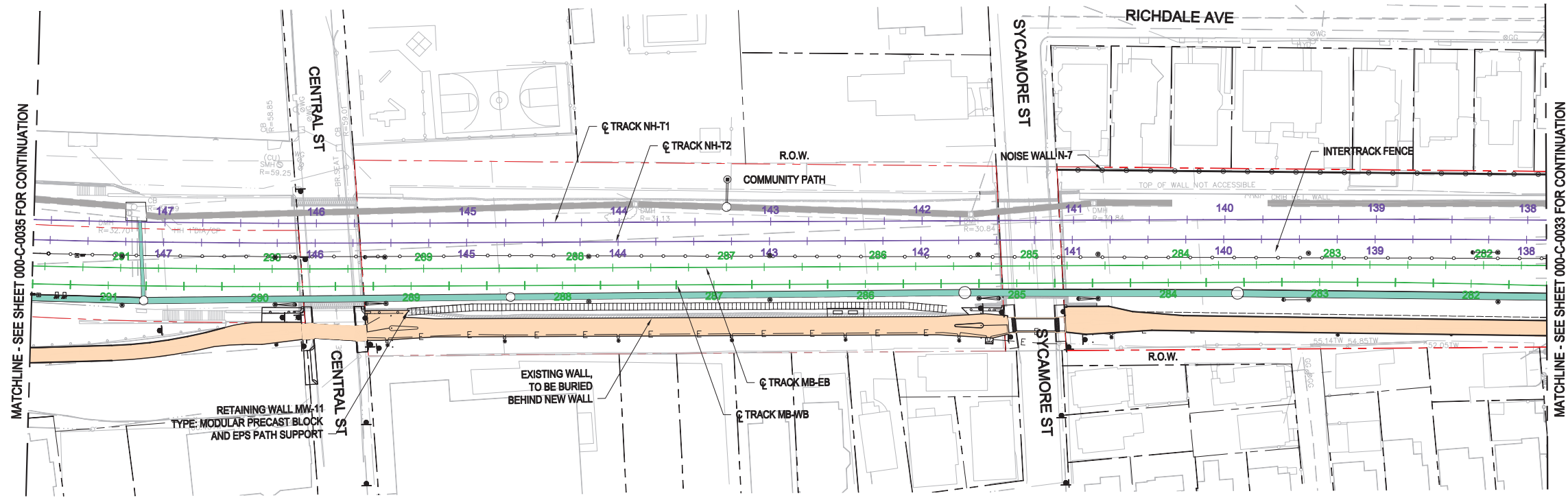
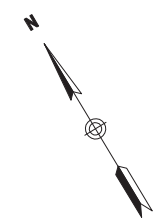
**NOT FOR
 CONSTRUCTION**

GLX	massDOT Massachusetts Department of Transportation				
0	09/28/2017	TECHNICAL PROPOSAL			
ISSUE	DATE	DESCRIPTION	BY	CHKD	APP.



SCALE: AS NOTED	DRAWN BY: SMD	DESIGN BY: SMD	CHECK BY: CD	PLAN NO.	ISSUE
DATE: 28SEPT2017				SHEET: 000-C-0033	

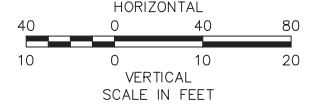
PLOTTED: 09/28/17 10:24AM BY: DESCHANE
 DRAWING: C:\USERS\DESCHANE\APPDATA\LOCAL TEMP\ACIPUBLISH_8020\000-C-0033-0038.DWG [C-0033] 09/28/17 10:20AM



PLAN

LEGEND

- DRAIN PIPE
- PERFORATED DRAIN PIPE
- UNDER DRAIN
- DRAIN PIPE W/ UNDER DRAIN
- PIPE SLEVE W/ DRAIN PIPE
- BASE DESIGN CHANGE - DRAINAGE PIPE
- BASE DESIGN CHANGE - DRAINAGE PIPE W/UNDERDRAIN
- BASE DESIGN CHANGE - EXIST DRAIN PIPE (TO REMAIN)
- BASE DESIGN CHANGE - UNDER DRAIN
- DRAIN MANHOLES/STRUCTURES
- CATCH BASIN INLET
- AREA DRAIN INLET
- UNDER DRAIN MANHOLE
- BASE DESIGN CHANGE - CLAY/RIPLEY DAM



T MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
GREEN LINE EXTENSION DESIGN-BUILD PROJECT
 MBTA CONTRACT NO. E22CN07
 SOMERVILLE/MEDFORD, MASSACHUSETTS

**MEDFORD BRANCH
 DRAINAGE PLAN**
 STA MB-EB 281+50 TO STA MB-EB 291+50

GLP Green Line Partners
 Lane • Si • Judlau • LMH-CMC JV

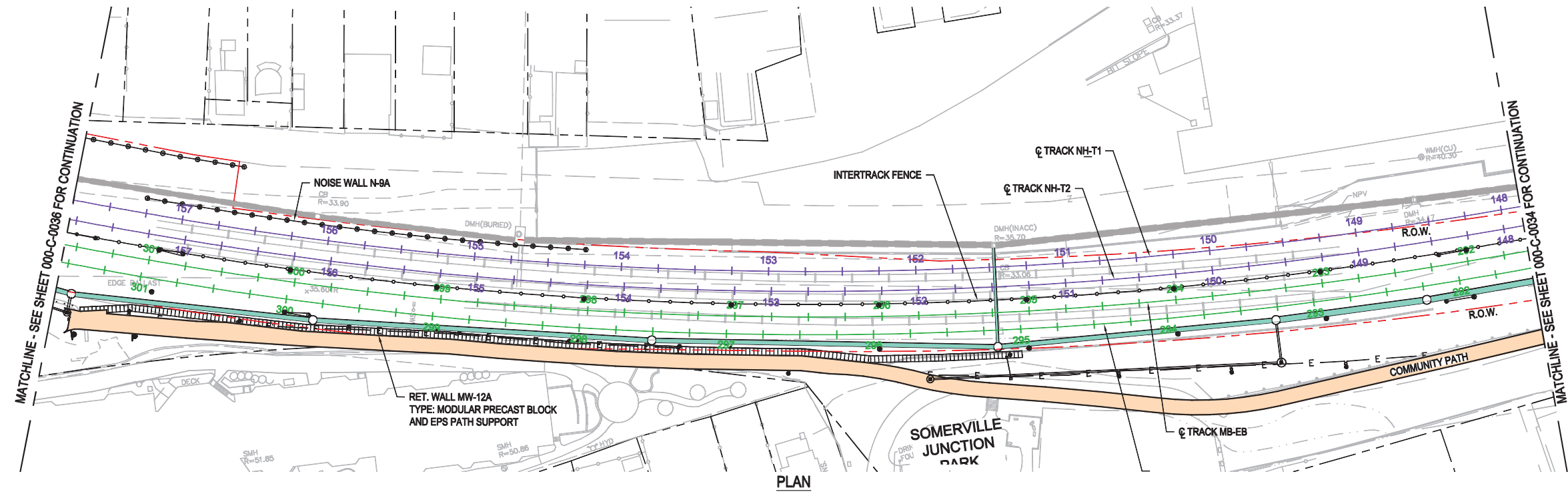
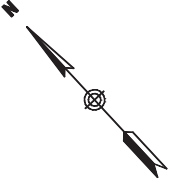
WSP

**NOT FOR
 CONSTRUCTION**

GLX		massDOT Massachusetts Department of Transportation	
0	09/28/2017	TECHNICAL PROPOSAL	
ISSUE	DATE	DESCRIPTION	BY CHK'D APP.

SCALE: AS NOTED	DRAWN BY: SMD	DESIGN BY: SMD	CHECK BY: CD	PLAN NO.	ISSUE
DATE: 28SEPT2017				SHEET: 000-C-0034	

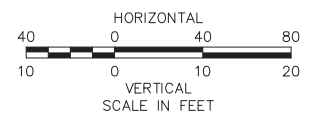
PLOTTED: 09/28/17 10:24AM BY: DESCHANE
 DRAWING: C:\USERS\DESCHANE\APPDATA\LOCAL TEMP\XPUBLISH_8020\000-C-0034-0038.DWG [C-0034] 09/28/17 10:20AM



PLAN

LEGEND

- DRAIN PIPE
- PERFORATED DRAIN PIPE
- UNDER DRAIN
- DRAIN PIPE W/ UNDER DRAIN
- PIPE SLEVE W/ DRAIN PIPE
- BASE DESIGN CHANGE - DRAINAGE PIPE
- BASE DESIGN CHANGE - DRAINAGE PIPE W/UNDERDRAIN
- BASE DESIGN CHANGE - EXIST DRAIN PIPE (TO REMAIN)
- BASE DESIGN CHANGE - UNDER DRAIN
- DRAIN MANHOLES/STRUCTURES
- CATCH BASIN INLET
- AREA DRAIN INLET
- UNDER DRAIN MANHOLE
- BASE DESIGN CHANGE - CLAY/RIPLEY DAM



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
GREEN LINE EXTENSION DESIGN-BUILD PROJECT
 MBTA CONTRACT NO. E22CN07
 SOMERVILLE/MEDFORD, MASSACHUSETTS

**MEDFORD BRANCH
 DRAINAGE PLAN**
 STA MB-EB 291+50 TO STA MB-EB 301+50

**NOT FOR
 CONSTRUCTION**

GLX **massDOT**
 Massachusetts Department of Transportation

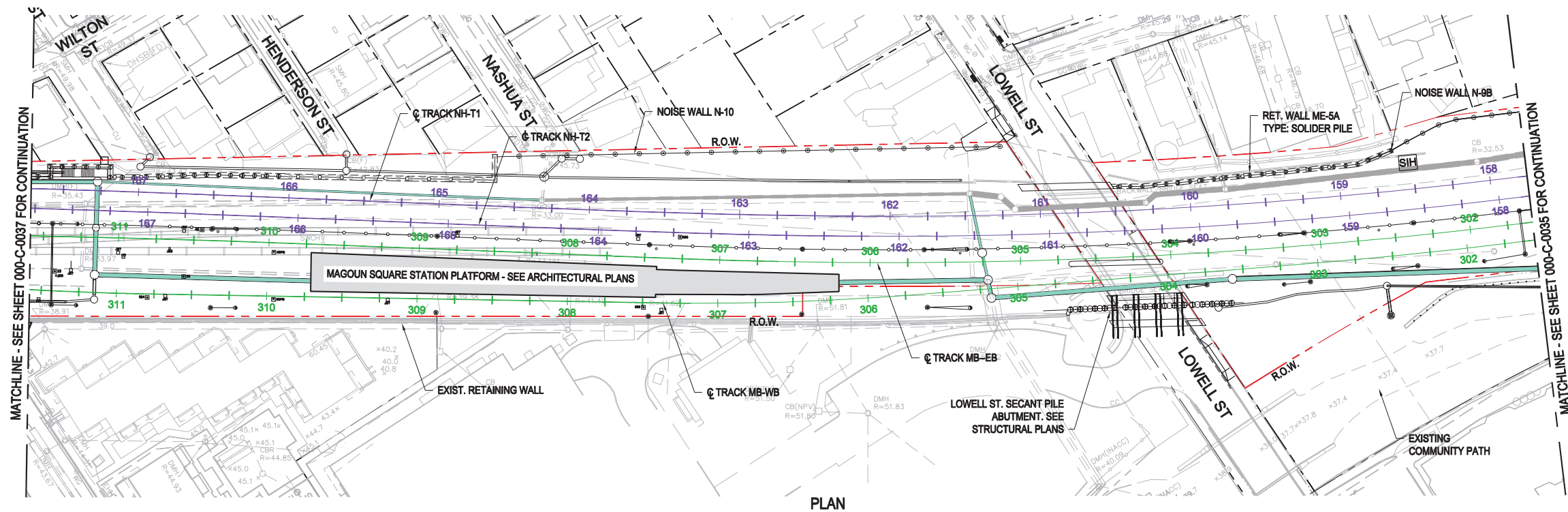
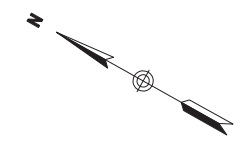
0	09/28/2017	TECHNICAL PROPOSAL			
ISSUE	DATE	DESCRIPTION	BY	CHK'D	APP.

GLP Green Line Partners
 Lane • SI • Judlau • LMH-CMC JV

WSP

SCALE: AS NOTED	DRAWN BY: SMD	DESIGN BY: SMD	CHECK BY: CD	PLAN NO.	ISSUE
DATE:				SHEET: 000-C-0035	

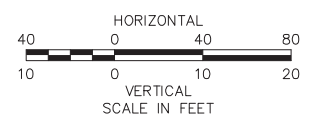
PLOTTED: 09/28/17 10:36AM BY: DESCHANE
 DRAWING: C:\USERS\DESCHANE\APPDATA\LOCAL TEMP\WPUBLISH_8020\000-C-0035-0038.DWG [C-0035] 09/28/17 10:20AM



PLAN

LEGEND

- DRAIN PIPE
- PERFORATED DRAIN PIPE
- UNDER DRAIN
- DRAIN PIPE W/ UNDER DRAIN
- PIPE SLEEVE W/ DRAIN PIPE
- BASE DESIGN CHANGE - DRAINAGE PIPE
- BASE DESIGN CHANGE - DRAINAGE PIPE W/ UNDER DRAIN
- BASE DESIGN CHANGE - EXIST DRAIN PIPE (TO REMAIN)
- BASE DESIGN CHANGE - UNDER DRAIN
- DRAIN MANHOLES/STRUCTURES
- CATCH BASIN INLET
- AREA DRAIN INLET
- UNDER DRAIN MANHOLE
- BASE DESIGN CHANGE - CLAY/RIPLEY DAM



T MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
GREEN LINE EXTENSION DESIGN-BUILD PROJECT
 MBTA CONTRACT NO. E22CN07
 SOMERVILLE/MEDFORD, MASSACHUSETTS

**MEDFORD BRANCH
 DRAINAGE PLAN**
 STA MB-EB 301+50 TO STA MB-EB 311+50

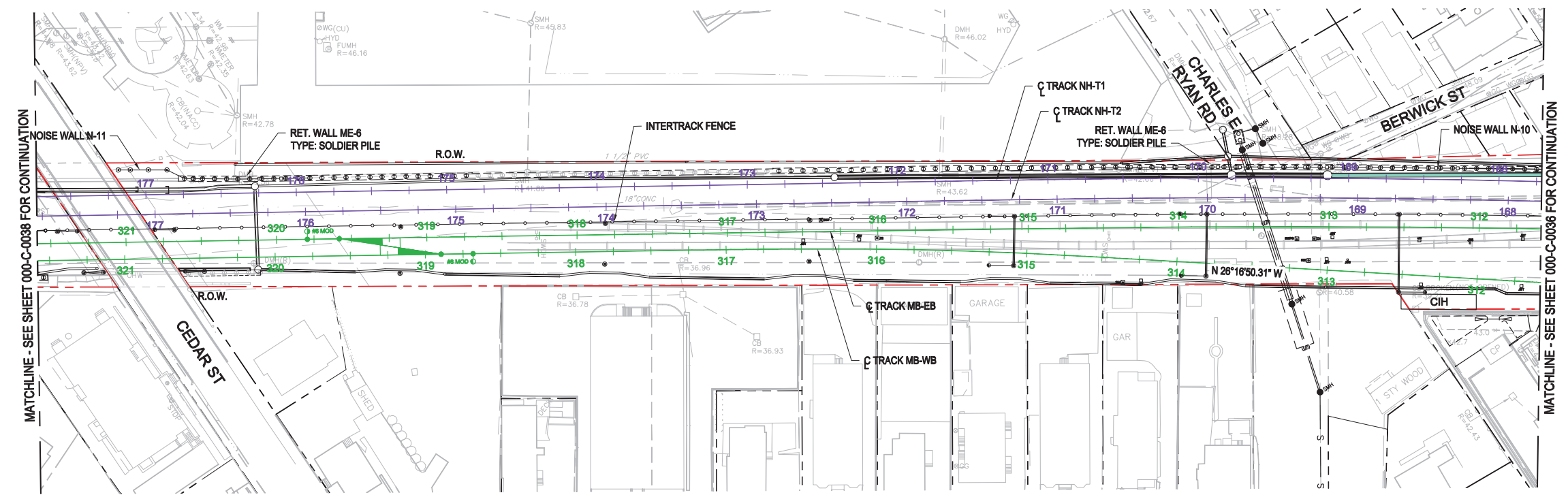
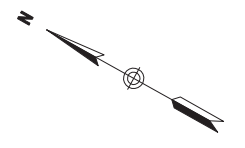
**NOT FOR
 CONSTRUCTION**



ISSUE	DATE	DESCRIPTION	BY	CHKD	APP.
0	09/28/2017	TECHNICAL PROPOSAL			

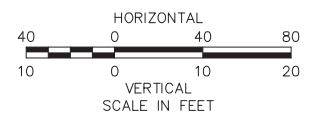
SCALE: AS NOTED	DRAWN BY: SMD	DESIGN BY: SMD	CHECK BY: CD	PLAN NO.	ISSUE
DATE: 28SEPT2017				SHEET: 000-C-0036	<input type="radio"/>

PLOTTED: 09/28/17 10:35AM BY: DESCHANE
 DRAWING: C:\USERS\DESCHANE\APPDATA\LOCAL_TEMP\ACIPUBLISH_8020\000-C-0036-0036.DWG [C-0036] 09/25/17 10:20AM



LEGEND

- DRAIN PIPE
- PERFORATED DRAIN PIPE
- UNDER DRAIN
- DRAIN PIPE W/ UNDER DRAIN
- PIPE SLEVE W/ DRAIN PIPE
- BASE DESIGN CHANGE - DRAINAGE PIPE
- BASE DESIGN CHANGE - DRAINAGE PIPE W/UNDERDRAIN
- BASE DESIGN CHANGE - EXIST DRAIN PIPE (TO REMAIN)
- BASE DESIGN CHANGE - UNDER DRAIN
- DRAIN MANHOLES/STRUCTURES
- CATCH BASIN INLET
- AREA DRAIN INLET
- UNDER DRAIN MANHOLE
- BASE DESIGN CHANGE - CLAY/RIPLEY DAM



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
GREEN LINE EXTENSION DESIGN-BUILD PROJECT
 MBTA CONTRACT NO. E22CN07
 SOMERVILLE/MEDFORD, MASSACHUSETTS

**MEDFORD BRANCH
 DRAINAGE PLAN**
 STA MB-EB 311+50 TO STA MB-EB 321+50

**NOT FOR
 CONSTRUCTION**

GLX	massDOT Massachusetts Department of Transportation	0 09/28/2017 TECHNICAL PROPOSAL	
		ISSUE	DATE
		DESCRIPTION	BY
			CHKD
			APP.

GLP Green Line Partners
Lane • Si • Judlau • LMH-CMC JV

WSP

SCALE: AS NOTED	DRAWN BY: SMD	DESIGN BY: SMD	CHECK BY: CD	PLAN NO.	ISSUE
DATE: 28SEPT2017				SHEET: 000-C-0037	<input type="radio"/>




PLOTTED: 09/28/17 10:26AM BY: DESCHANE
 DRAWING: C:\USERS\DESCHANE\APPDATA\LOCAL TEMP\WPUBLISH_8020\000-C-0030-0038.DWG [C-0037] 09/25/17 10:20AM

QUANTITY	LOCATION	TYPE OF SPECIAL TRACKWORK	TRACK CENTERS (FT.)	FROG TYPE	SWITCH LENGTH
30	VMF	150 FT. CURVED RADIUS TURNOUT	N/A	FLANGE BEARING	13'-0"
1	BRICK BOTTOM INTERLOCKING	NO. 6 MODIFIED DIAMOND CROSSOVER	15	FLANGE BEARING	17'-6"
1	WASHINGTON STREET INTERLOCKING	NO. 8 LH TURNOUT	N/A	FLANGE BEARING	26'-0"
1	WASHINGTON STREET INTERLOCKING	NO. 8 CROSSOVER	18	FLANGE BEARING	26'-0"
2	WASHINGTON STREET INTERLOCKING	NO. 6 MODIFIED CROSSOVER	11.5	FLANGE BEARING	17'-6"
1	LOWELL STREET INTERLOCKING	NO. 6 MODIFIED CROSSOVER	11.33	JUMP	17'-6"
2	COLLEGE AVE INTERLOCKING	NO. 8 CROSSOVER	12	FLANGE BEARING	26'-0"
1	RED BRIDGE INTERLOCKING	NO. 6 MODIFIED CROSSOVER	11.5	FLANGE BEARING	17'-6"
1	RED BRIDGE INTERLOCKING	NO. 6 MODIFIED TURNOUT	N/A	FLANGE BEARING	17'-6"
1	MCGRATH INTERLOCKING	NO. 10 TURNOUT	N/A	FLANGE BEARING	26'-0"
1	YL4 TO US-EB	NO. 6 MODIFIED TURNOUT	N/A	FLANGE BEARING	17'-6"
1	UNION SQUARE INTERLOCKING	NO. 8 DIAMOND CROSSOVER	15	FLANGE BEARING	26'-0"

Notes:

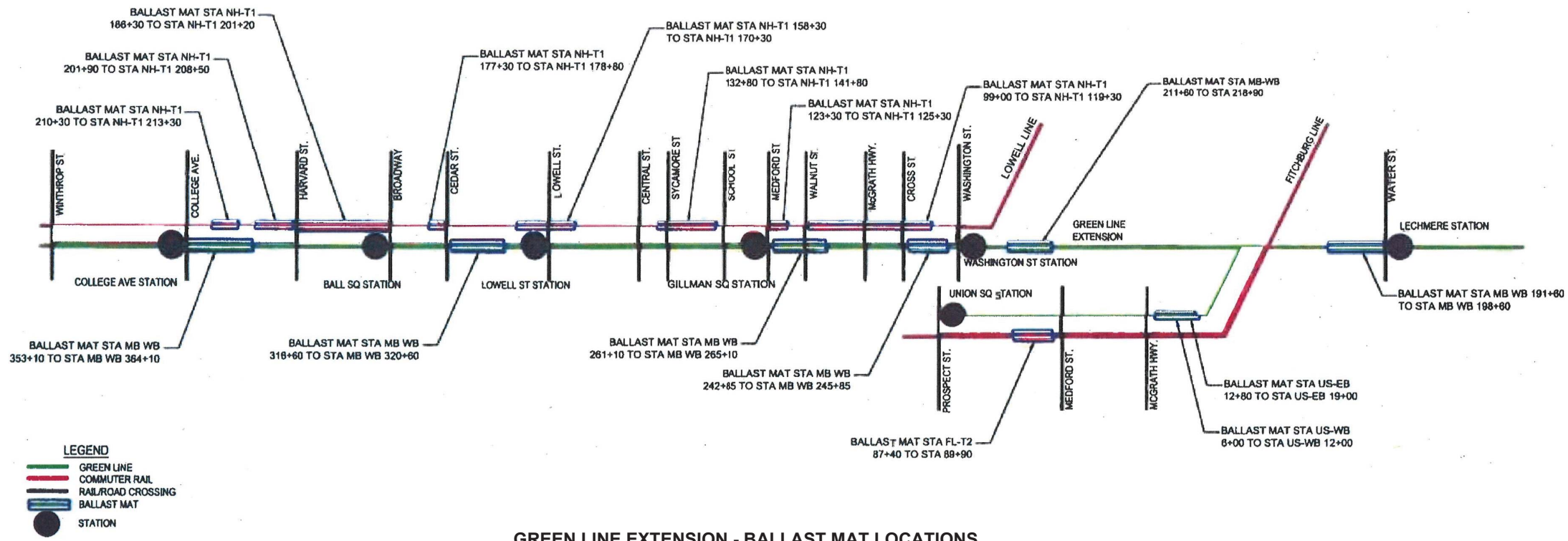
- 1) All special trackwork units shall be designed and manufactured in accordance with the most current MBTA MOW standards.
- 2) All special trackwork units shall be comprised of wood tie and ballasted track construction.
- 3) All headblock ties shall be made from Azobe grade tropical hardwood, conforming to MBTA Specification No. 9260.
- 4) Rail size shall be 115RE.
- 5) All switches shall be fully guarded and include a manganese switch point housing (cover guard).
- 6) All special trackwork components and materials must be fully compliant with Buy America requirements.

PLOTTED: 09/22/17 10:45AM BY: WEAVER
 DRAWING: C:\BMS\WSP-FB-US-FW-03\WSP-EMERY\WEAVER\MS05617\000-K-3000.DWG [000-K-3000] 09/22/17 7:50AM

	MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
	GREEN LINE EXTENSION DESIGN-BUILD PROJECT MBTA CONTRACT NO. E22CN07 SOMERVILLE/MEDFORD, MASSACHUSETTS	
SPECIAL TRACKWORK SCHEDULE		
 Lane • SI • Judlau • LMH-CMC JV		
SCALE: AS NOTED	DRAWN BY: JD	DESIGN BY: SK
DATE: 28SEPT2017	CHECK BY: SK	PLAN NO. SHEET: 000-K-3000
ISSUE		-

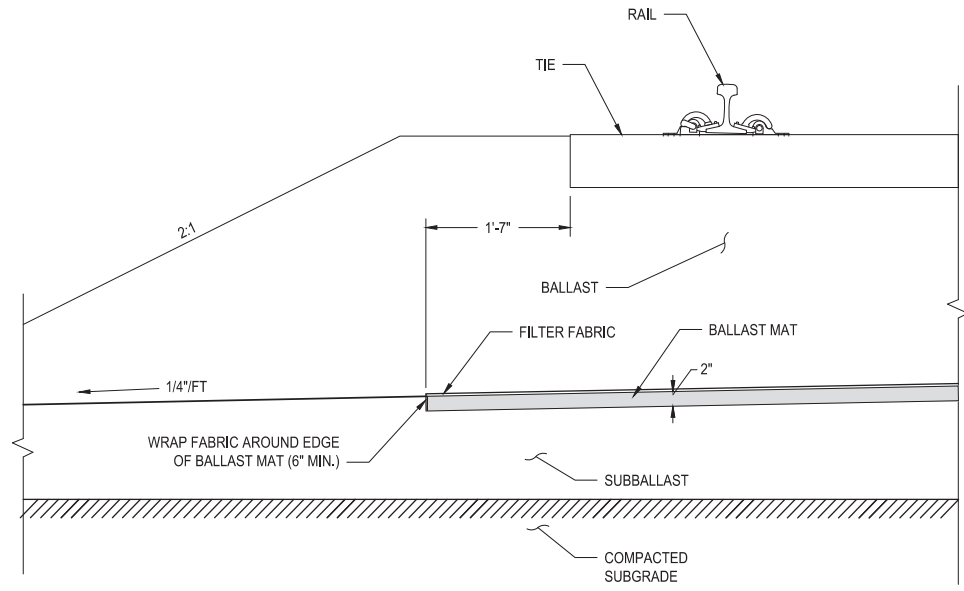
NOT FOR CONSTRUCTION

			
0	09/28/2017	TECHNICAL PROPOSAL	
ISSUE	DATE	DESCRIPTION	BY CHKD APP.



GREEN LINE EXTENSION - BALLAST MAT LOCATIONS

SCALE: NTS



BALLAST MAT EDGE DETAIL
NOT TO SCALE

PLOTTED: 09/22/17 11:05AM BY: WEAVER
 DRAWING: C:\BMS\WSP-FB-US-PW-02\WSP-EMERY\WEAVER\BMS05817\000-K-3101.DWG [000-K-3101_WSP] 09/22/17 10:59AM

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
 GREEN LINE EXTENSION DESIGN-BUILD PROJECT
 MBTA CONTRACT NO. E22CN07
 SOMERVILLE/MEDFORD, MASSACHUSETTS

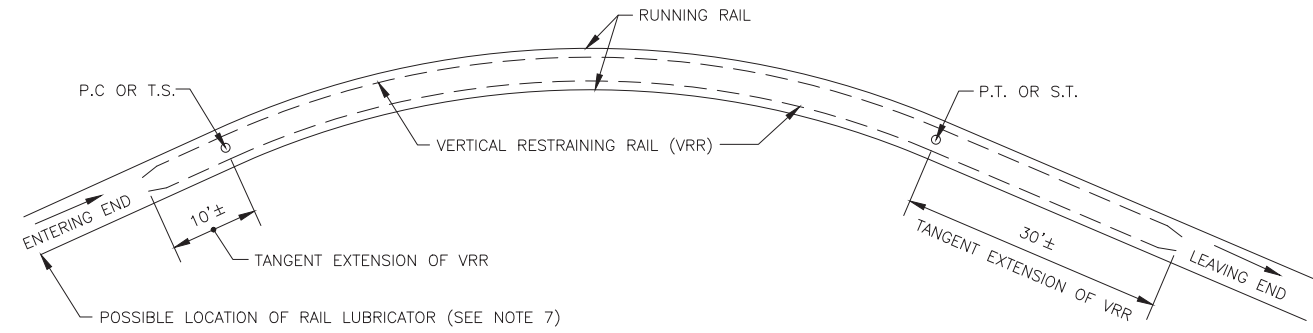
**TRACK DETAILS
BALLAST MAT**

NOT FOR
CONSTRUCTION

0	09/28/2017	TECHNICAL PROPOSAL			
ISSUE	DATE	DESCRIPTION	BY	CHKD	APP.

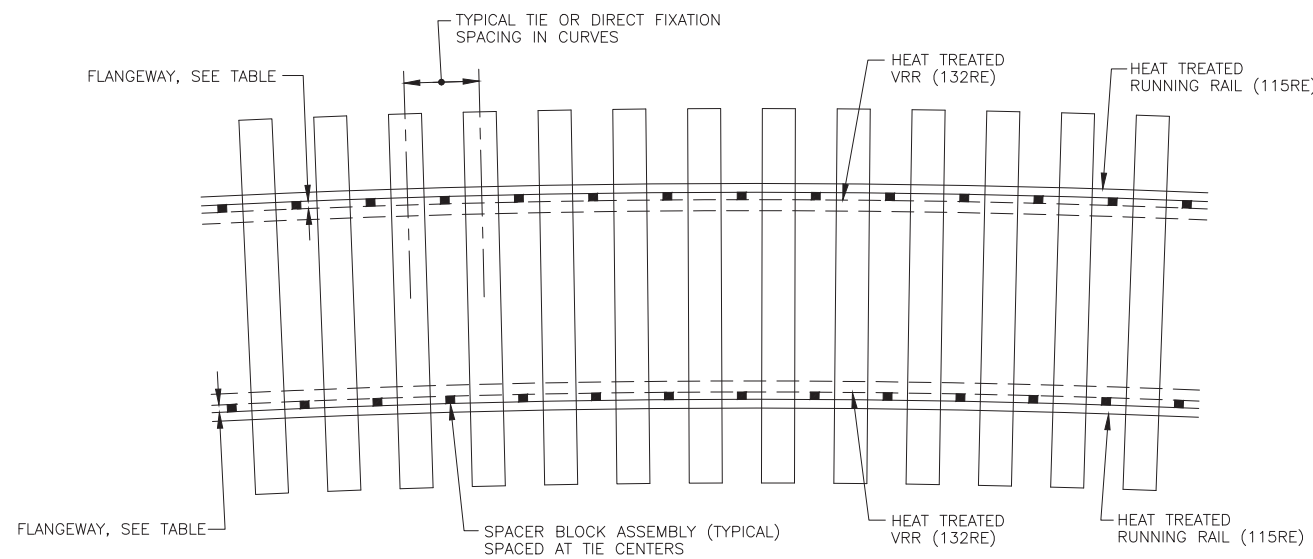
Green Line Partners
 Lane • Si • Judlau • LMH-CMC JV

SCALE: NO SCALE	DRAWN BY: SMM	DESIGN BY: IMM	CHECK BY: ECD	PLAN NO.	ISSUE
DATE: 28SEPT2017				SHEET: 000-K-3101	-



VERTICAL RESTRAINING RAIL CRITERIA ON CURVES (DF AND BALLASTED TRACK)

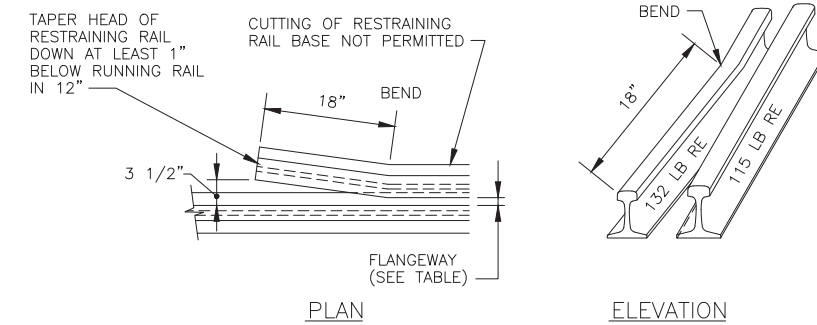
CENTERLINE CURVE RADIUS (FEET)	VERTICAL RESTRAINING RAIL REQUIREMENT
1000 AND ABOVE	NONE
100 TO 999	SINGLE VRR ON INSIDE RAIL OF CURVE
LESS THAN 100	DOUBLE VRR



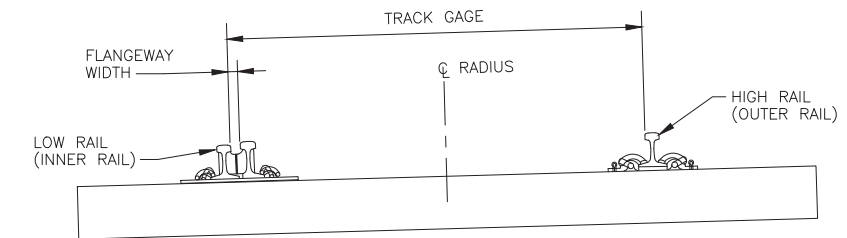
LOCATION OF VERTICAL RESTRAINING RAIL SPACER BLOCKS

NOTES:

- REFER TO RAIL CRITERIA AS GIVEN IN THE MASSACHUSETTS BAY TRANSPORTATION AUTHORITY TRACK MAINTENANCE STANDARDS.
- RUNNING RAIL AND VERTICAL RESTRAINING RAIL TO BE FULLY HEAT TREATED RAILS.
- LIMITS OF VERTICAL RESTRAINING RAIL AND LOCATION OF SPACER BLOCKS ARE TYPICAL AND MAY BE CHANGED ONLY WITH THE APPROVAL OF THE ENGINEER.
- VERTICAL RESTRAINING RAILS SHALL HAVE FLARED ENDS BENT TOWARDS THE CENTERLINE OF THE TRACK (SEE DETAIL THIS SHEET).
- ADJUST HOLES FOR SPACER BLOCK ASSEMBLIES IN THE FIELD SO THAT NO HOLES ARE DRILLED WITHIN 6" OF A WELD IN THE RUNNING RAIL.
- ENDS OF RESTRAINING RAIL IN BALLASTED TRACK MAY BE BEVELED IN ACCORDANCE WITH AREMA PLAN NO. 505-59 IN LIEU OF BENDING THE RAIL ENDS. RESTRAINING RAIL IN "DF" TRACK SHALL HAVE BEVELED ENDS.
- CONTRACTOR SHALL FURNISH AND INSTALL FOUR (4) RAIL LUBRICATORS AS DIRECTED BY THE AUTHORITY. LUBRICATORS SHALL BE M & S 761 HYDROTUBE OR APPROVED EQUAL. POWER BLOCK PLUNGER TO BE MODIFIED FOR GAGE SIDE USE. LUBRICATOR SHALL BE CAPABLE OF SUPPLYING LUBRICANT TO BACK OF WHEEL FLANGES AND/OR GAGE FACE OF RAIL.



VERTICAL RESTRAINING RAIL END BENDING DETAILS/BALLASTED TRACK (SEE NOTE 6)



TRACK GAGE AND FLANGEWAY WIDTH CRITERIA WITH VERTICAL RESTRAINING RAIL (DF AND BALLASTED TRACK)

CENTERLINE CURVE RADIUS (FEET)	TRACK GAGE	FLANGEWAY WIDTH	
		SINGLE INNER VRR	OUTER DOUBLE GUARD RAIL
50 TO 74	4'-9"	1 3/4"	1 3/4"
75 TO 99	4'-9"	1 5/8"	1 3/4"
100 TO 999	4'-8 7/8"	1 5/8"	NONE REQ'D
1000 AND ABOVE	4'-8 1/2"	NONE REQ'D	NONE REQ'D

PLOTTED: 09/22/17 10:46AM BY: WEAVERE
 DRAWING: C:\BMS\WSP-FB-US-FIN-02.WSP EMERY\EMERY\MS05617\000-K-3200.DWG [000-K-3200] 09/22/17 7:27AM

NOT FOR CONSTRUCTION

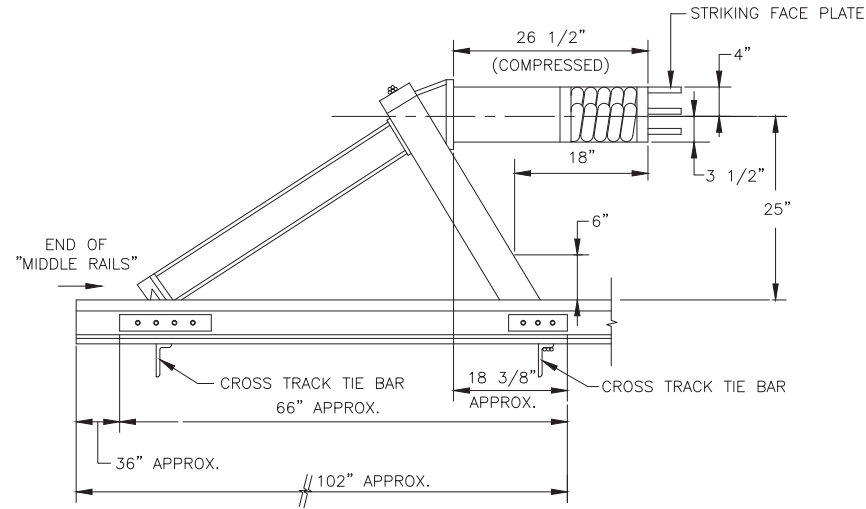


MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
 GREEN LINE EXTENSION DESIGN-BUILD PROJECT
 MBTA CONTRACT NO. E22CN07
 SOMERVILLE/MEDFORD, MASSACHUSETTS

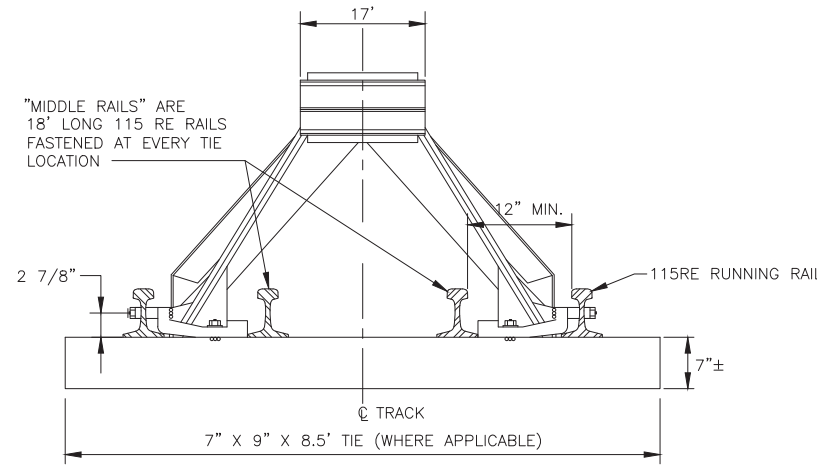
**TRACKWORK DETAILS
VERTICAL RESTRAINING RAIL/
BALLASTED AND DIRECT FIXATION TRACK**



0	09/28/2017	TECHNICAL PROPOSAL								
SCALE:	AS NOTED	DRAWN BY:	JD	DESIGN BY:	SK	CHECK BY:	SK	PLAN NO.:		ISSUE
DATE:	28SEPT2017							SHEET:	000-K-3200	-

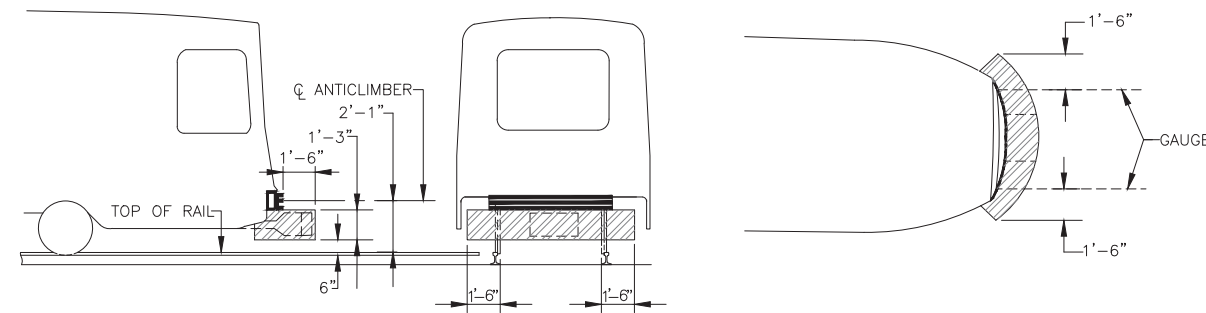


TYPICAL LRV BUMPING POST DETAIL
N.T.S.



NOTES:

1. SPRINGS ARE SHOWN IN COMPRESSED POSITION.
2. BUMPING POST TO BE WESTERN-CULLEN-HAYES TYPE "WCTS" OR EQUIVALENT.
3. RUNNING RAIL AND MIDDLE RAILS WITHIN AREA OF BUMPING POST TO BE RESTRAINED WITH TWO TWIN HOOK TIE PLATES AT EACH RAIL SEAT LOCATION. TIE SPACING IS NOMINAL 24" FOR WOOD TIES.
4. CONTRACTOR TO PROVIDE SHOP DRAWING OF BUMPING POST, PLATE AND FASTENER DETAILS.
5. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF POST HEAD AREA AND HEIGHT BASED ON FIELD MEASUREMENTS OF EXISTING AND NEW LOW FLOOR LRV'S.
6. CONTRACTOR TO PROVIDE LOCATION AND TYPE OF INSULATED JOINTS ON SHOP DRAWINGS FOR BUMPING POST
7. BUMPING POST MUST BE DETAILED TO CATCH THE ANTICLIMBER ON THE STRIKING FACE PLATE AND CLEAR THE SHADED AREAS SHOWN BELOW.



BUMPING POST CLEARANCE REQUIREMENTS
N.T.S.

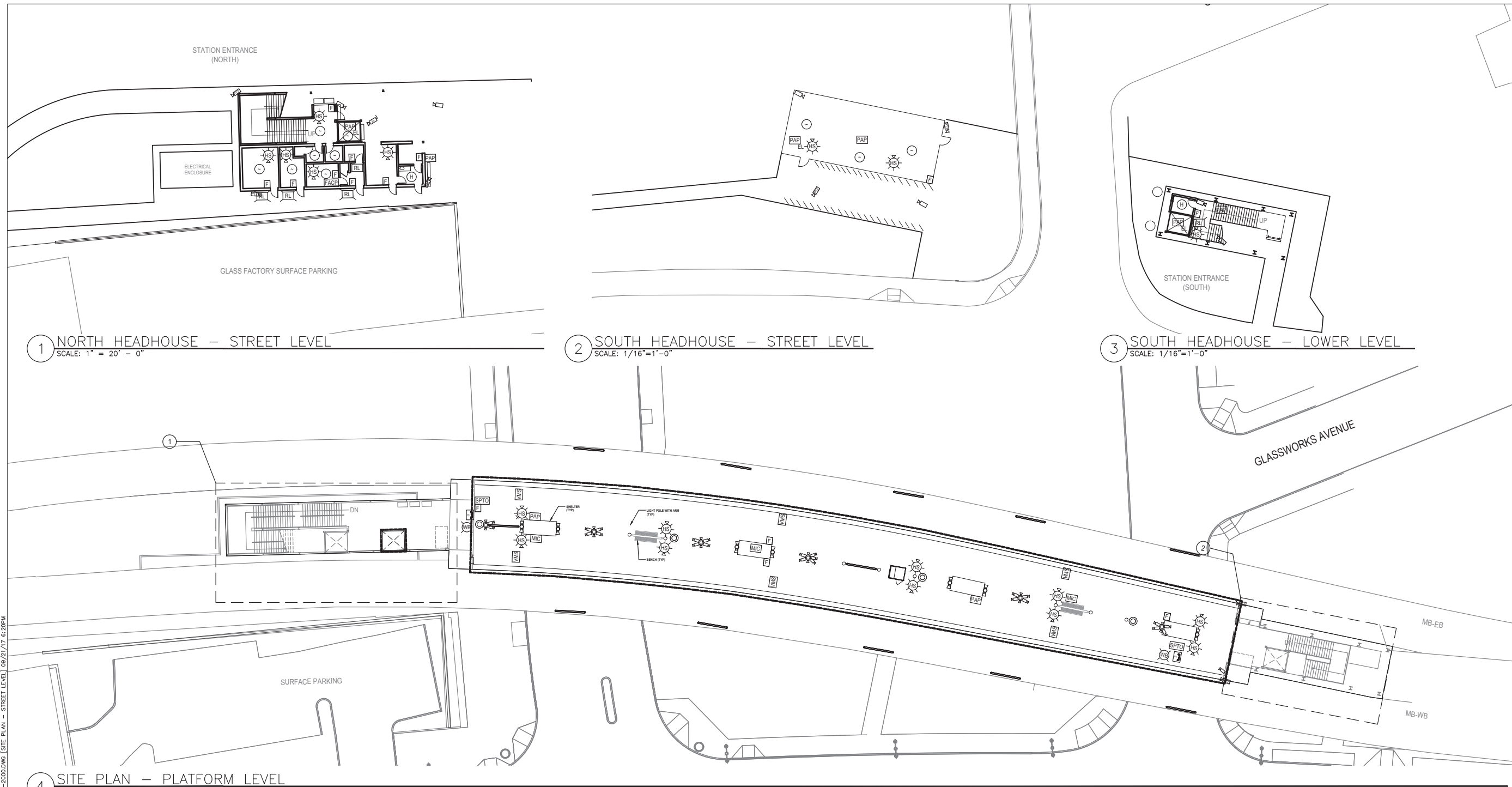
PLOTTED: 09/22/17 10:45AM BY: WEAVERS
 DRAWING: C:\BMS\WSP-PB-US-PW-03\WSP-EMERY\WEAVERS\MS05617\000-K-3201.DWG [000-K-3201] 09/22/17 8:00AM

T	MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
	GREEN LINE EXTENSION DESIGN-BUILD PROJECT MBTA CONTRACT NO. E22CN07 SOMERVILLE/MEDFORD, MASSACHUSETTS
	TRACKWORK DETAILS BALLASTED TRACK BUMPING POST

NOT FOR CONSTRUCTION

GLX	massDOT Massachusetts Department of Transportation	0	09/28/2017	TECHNICAL PROPOSAL					
		ISSUE	DATE	DESCRIPTION	BY	CHKD	APP.		

GLP Green Line Partners Lane • SI • Judlau • LMH-CMC JV	WSP				
SCALE: AS NOTED	DRAWN BY: JD	DESIGN BY: SK	CHECK BY: SK	PLAN NO.	ISSUE
DATE: 28SEPT2017	SHEET: 000-K-3201				-



1 NORTH HEADHOUSE - STREET LEVEL
SCALE: 1" = 20' - 0"

2 SOUTH HEADHOUSE - STREET LEVEL
SCALE: 1/16" = 1' - 0"

3 SOUTH HEADHOUSE - LOWER LEVEL
SCALE: 1/16" = 1' - 0"

4 SITE PLAN - PLATFORM LEVEL
SCALE: 1/16" = 1' - 0"

PLOTTED: 09/22/17 11:47AM BY: MACUMBER
 DRAWING: C:\BKS\WSP-FB-US-PW-02\WSP-KEN\MACUMBER\0504672\LES-E-2000.DWG [SITE PLAN - STREET LEVEL] 09/21/17 6:20PM

LEGEND:

	WAYSIDE TELEPHONE		WAYSIDE TELEPHONE BLUE BEACON		PASSENGER ASSISTANCE MICROPHONE - POLE MOUNT
	HEAT DETECTOR		AMBIENT SENSING MICROPHONE		VARIABLE MESSAGE SIGN
	SMOKE DETECTOR		PASSENGER ASSISTANCE MICROPHONE IN ELEVATOR		VMS POLE MOUNT
	HORN STROBE NOTIFICATION DEVICE		SPEAKERS POLE MOUNT		CCTV AND SPEAKERS POLE MOUNT
	PULL STATION WITH BUBBLE COVER		CCTV CAMERA		CORNER MOUNT CAMERA IN ELEVATOR
	REMOTE INDICATING LIGHT				
	FIRE ALARM CONTROL PANEL				
	SINGLE PERSON TRAIN OPERATOR MONITOR				

STATION	COMM DEVICE TOTALS																
	PTZ	FIXED	ELEVATOR	CCTV/SPEAKER	PA SPEAKERS	PA SPEAKERS	AMBIENT	WAYSIDE	SPTO	HORN/	SMOKE	HEAT	RL	LEDS			
LECHMERE	7	32	2	5	6	16	7	3	8	7	2	1	16	21	11	2	5
UNION SQUARE	0	19	0	0	4	0	13	2	2	4	2	1	2	8	2	0	2
EAST SOMERVILLE	0	23	0	0	4	0	13	2	3	4	2	1	0	8	2	0	2
GILMAN SQUARE	0	21	0	0	4	0	13	2	4	4	2	1	2	8	3	1	1
MAGOUN SQUARE	0	24	0	0	4	0	13	2	2	4	2	1	2	8	3	1	0
BALL SQUARE	0	23	0	0	4	0	13	2	2	4	2	1	2	2	2	0	2
COLLEGE AVENUE	0	23	0	0	4	0	13	2	2	4	2	1	5	8	7	1	4

SHEET NOTES

- PLATFORM TO BE 300 FT LONG MINIMUM TO ACCOMMODATE (1) FOUR-CAR LRV OR (2) TWO-CAR LRV.
- THIS IS A NEW DRAWING DEVELOPED FOR THIS TECHNICAL PROPOSAL RESPONSE.

NOT FOR CONSTRUCTION

09/28/2017		TECHNICAL PROPOSAL	
ISSUE	DATE	DESCRIPTION	BY

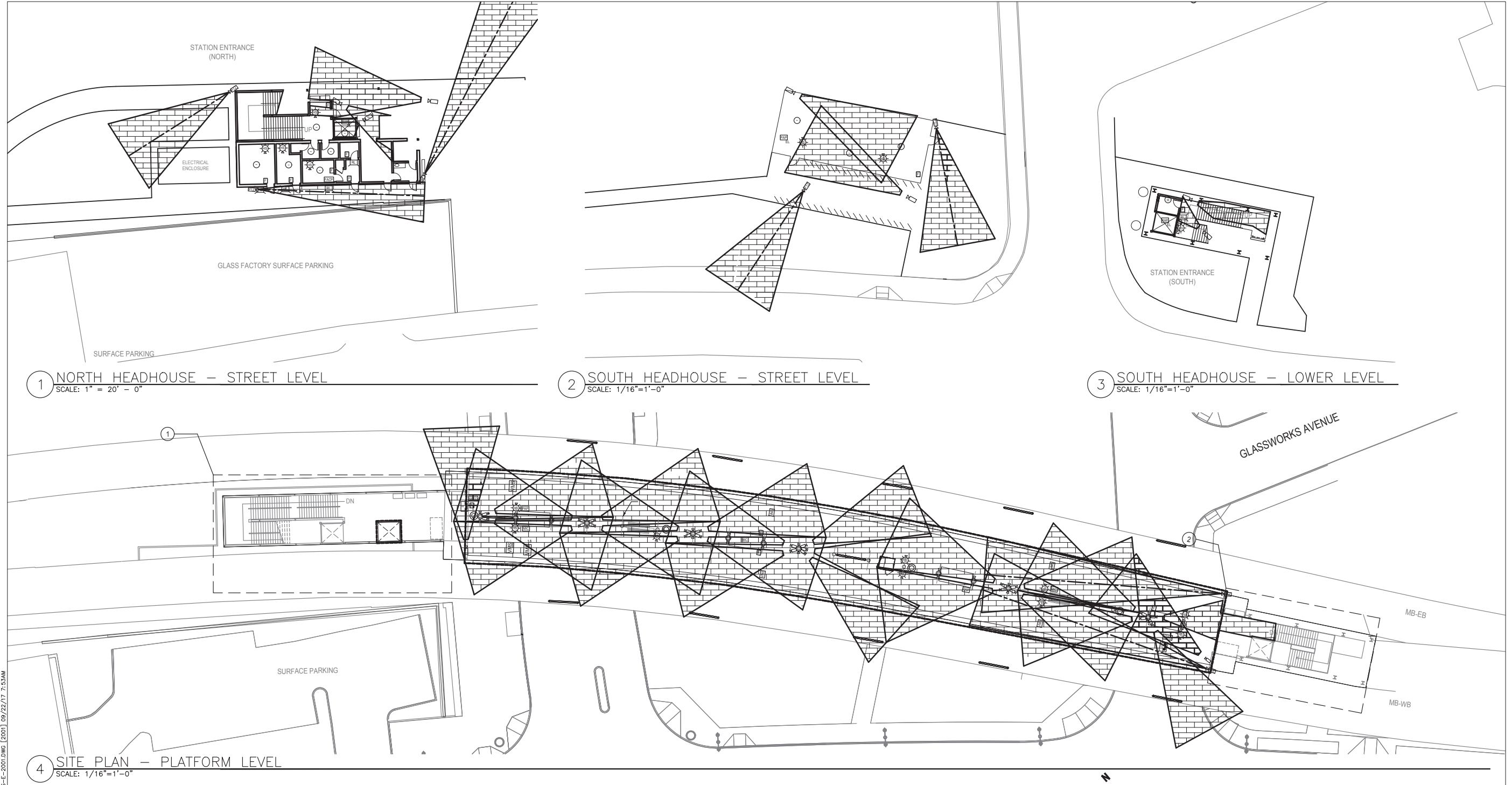
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
 GREEN LINE EXTENSION DESIGN-BUILD PROJECT
 MBTA CONTRACT NO. E22CN07
 SOMERVILLE/MEDFORD, MASSACHUSETTS

**LECHMERE STATION
 TYPICAL STATION
 EQUIPMENT LAYOUT PLAN**

GLP Green Line Partners
 Lane • Si • Judlau • LMH-CMC JV

WSP

SCALE: AS NOTED	DRAWN BY: ERP	DESIGN BY: AF	CHECK BY: JLW	PLAN NO.	ISSUE
DATE: 28SEPT2017				SHEET: LES-E-2000	-



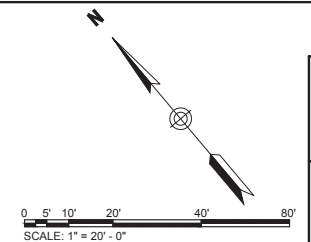
PLOTTED: 09/22/17 11:45AM BY: MCMCMBR
 DRAWING: C:\BAC\WSP-PE-US-FW-CO-VSP_KEN\MCMCMBR\0505672\LES-E-2001.DWG [2001] 09/22/17 7:53AM

LEGEND:

- | | | | |
|--|--------------------------------------|--|--|
| | WAYSIDE TELEPHONE | | PASSENGER ASSISTANCE MICROPHONE - POLE MOUNT |
| | HEAT DETECTOR | | AMBIENT SENSING MICROPHONE |
| | SMOKE DETECTOR | | VARIABLE MESSAGE SIGN |
| | HORN STROBE NOTIFICATION DEVICE | | PASSENGER ASSISTANCE MICROPHONE IN ELEVATOR |
| | PULL STATION WITH BUBBLE COVER | | VMS POLE MOUNT |
| | REMOTE INDICATING LIGHT | | SPEAKERS POLE MOUNT |
| | FIRE ALARM CONTROL PANEL | | CCTV AND SPEAKERS POLE MOUNT |
| | SINGLE PERSON TRAIN OPERATOR MONITOR | | CCTV CAMERA |
| | | | CORNER MOUNT CAMERA IN ELEVATOR |

CAMERA COUNT (INCLUDING POLE MOUNTED)		
STATION:	PTZ CCTV	FIXED CCTV
LECHMERE STATION	7	32

- SHEET NOTES**
1. PLATFORM TO BE 300 FT LONG MINIMUM TO ACCOMMODATE (1) FOUR-CAR LRV OR (2) TWO-CAR LRV.
 2. THIS IS A NEW DRAWING DEVELOPED FOR THIS TECHNICAL PROPOSAL RESPONSE.



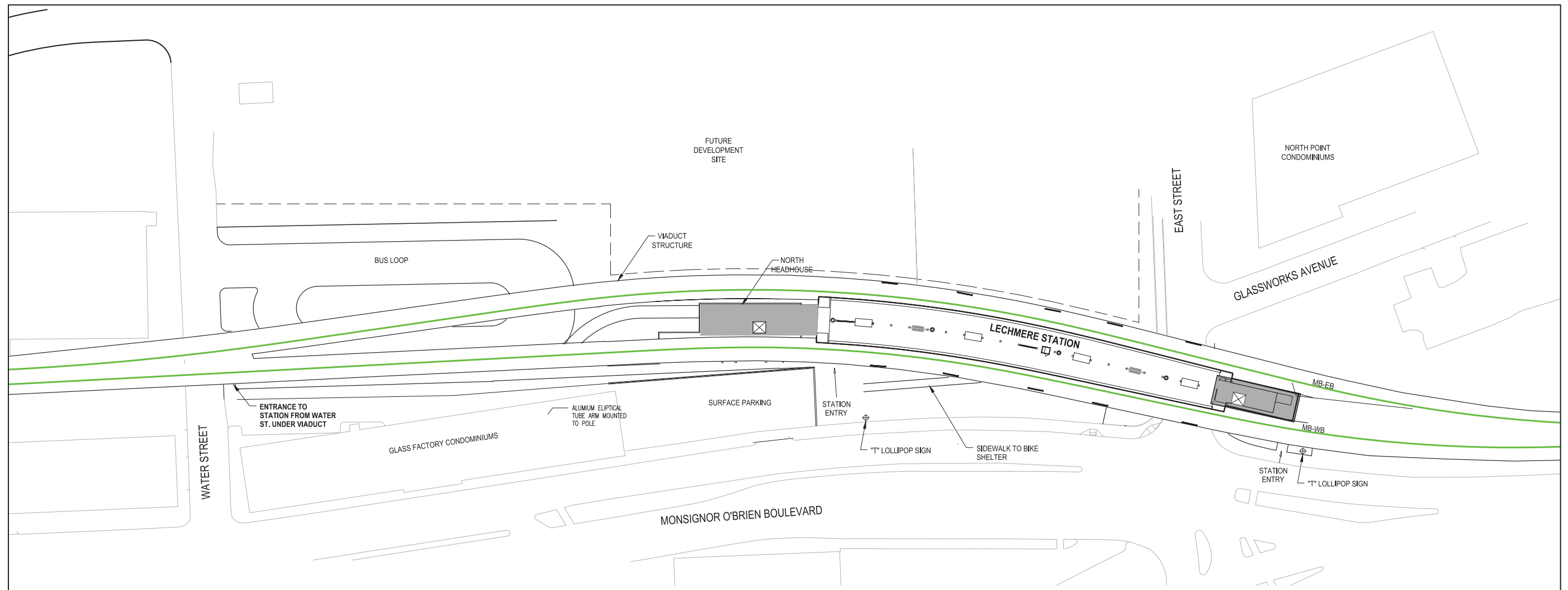
T MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
 GREEN LINE EXTENSION DESIGN-BUILD PROJECT
 MBTA CONTRACT NO. E22C07
 SOMERVILLE/MEDFORD, MASSACHUSETTS

**LECHMERE STATION
 TYPICAL STATION
 CCTV COVERAGE PLAN**

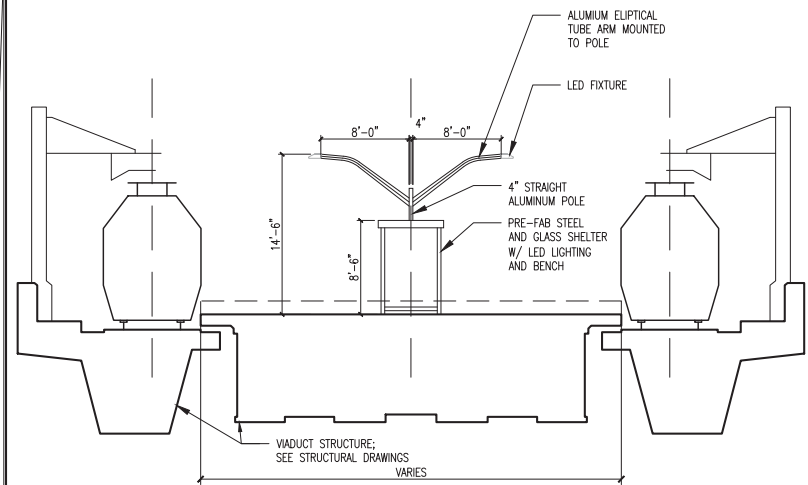
**NOT FOR
 CONSTRUCTION**

GLX	massDOT Massachusetts Department of Transportation				
0	09/28/2017	TECHNICAL PROPOSAL			
ISSUE	DATE	DESCRIPTION	BY	CHKD	APP

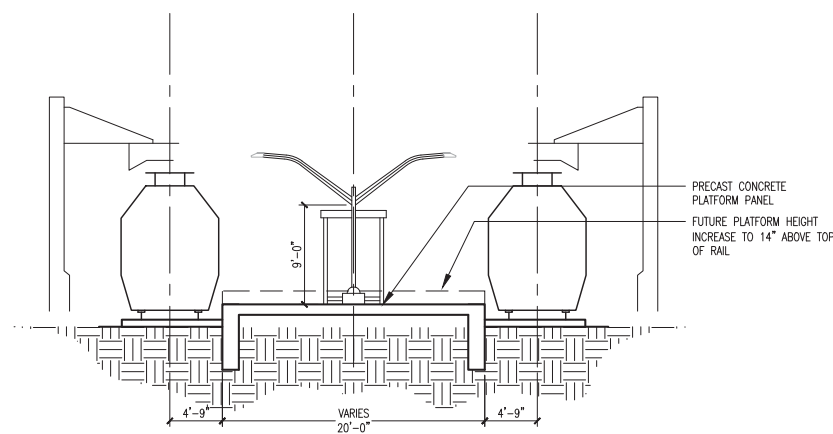
GLP Green Line Partners Lane • Si • Judlau • LMH-CMC JV	WSP				
SCALE: AS NOTED	DRAWN BY: ERP	DESIGN BY: AF	CHECK BY: JLW	PLAN NO.	ISSUE
DATE: 28SEPT2017				SHEET: LES-E-2001	1



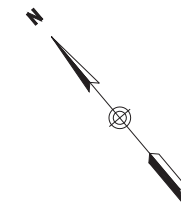
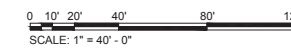
1 SITE CONTEXT PLAN – LECHMERE STATION
SCALE: 1" = 40'-0"



2 LECHMERE PLATFORM SECTION
SCALE: 1/8" = 1' - 0"



3 AT-GRADE PLATFORM SECTION
SCALE: 1/8" = 1' - 0"



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
GREEN LINE EXTENSION DESIGN-BUILD PROJECT
MBTA CONTRACT NO. E22CN07
SOMERVILLE/MEDFORD, MASSACHUSETTS

**LECHMERE STATION
SITE CONTEXT PLAN**



NOT FOR CONSTRUCTION

0		09/29/2017	TECHNICAL PROPOSAL				
ISSUE	DATE	DESCRIPTION	BY	CHKD	APP.	DATE	

SCALE:	DRAWN BY:	DESIGN BY:	CHECK BY:	PLAN NO.:	ISSUE
				SHEET: LES-A-2000	0

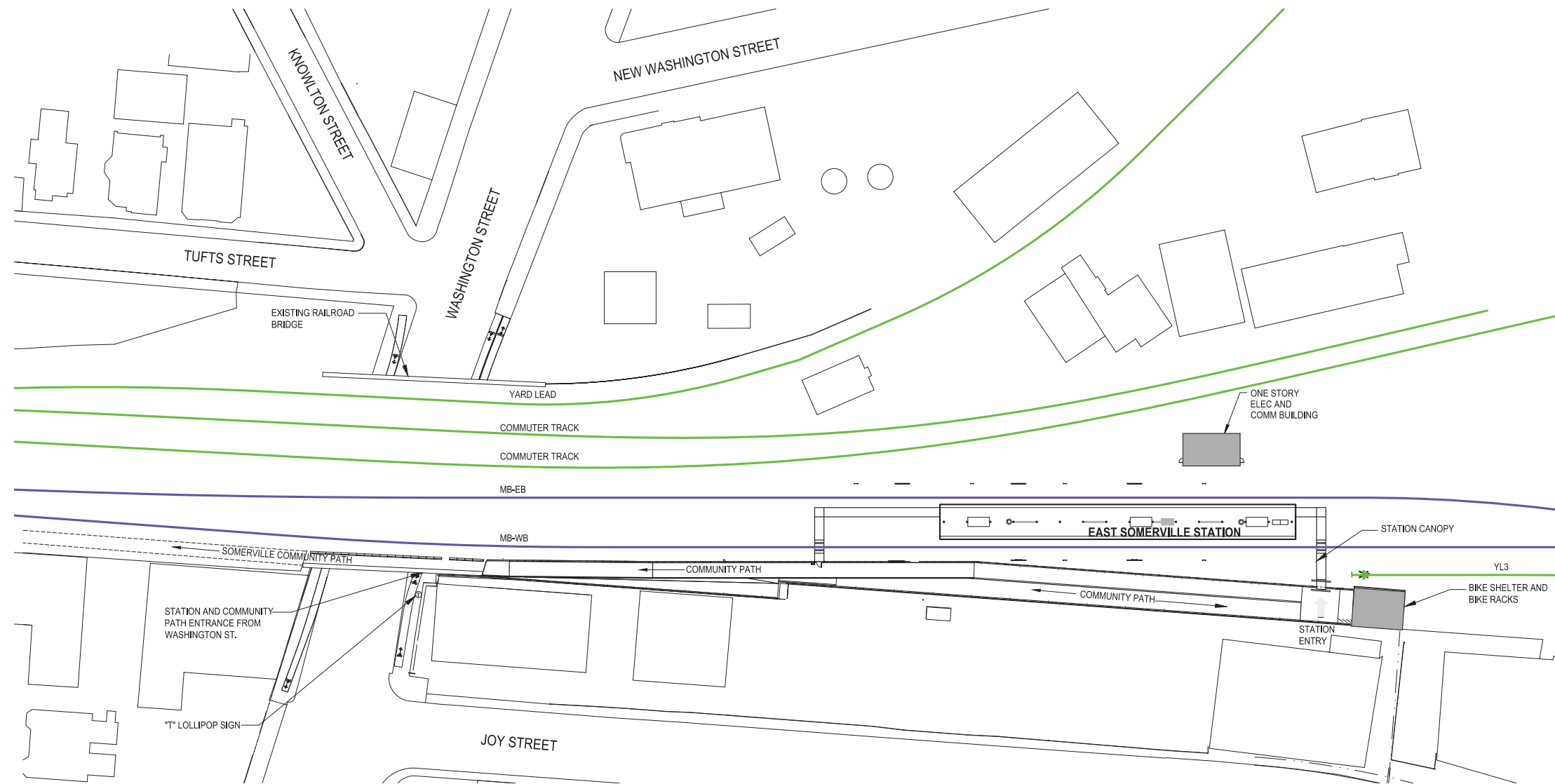


1 SITE CONTEXT PLAN - UNION SQUARE
SCALE: 1" = 40'-0"

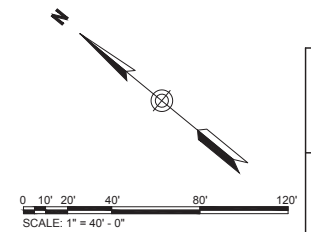
NOT FOR CONSTRUCTION

GLX		massDOT Massachusetts Department of Transportation	
0	09/28/2017	TECHNICAL PROPOSAL	
ISSUE	DATE	DESCRIPTION	BY CHK'D APP.

T	MASSACHUSETTS BAY TRANSPORTATION AUTHORITY GREEN LINE EXTENSION DESIGN-BUILD PROJECT MBTA CONTRACT NO. E22CN07 SOMERVILLE/MEDFORD, MASSACHUSETTS		
	UNION SQUARE STATION SITE CONTEXT PLAN		
SCALE: As indicated		DRAWN BY	DESIGN BY
DATE:		CHECK BY	PLAN NO.
SHEET: UNS-A-2000		ISSUE	
		0	



1 SITE CONTEXT PLAN – EAST SOMERVILLE STATION
SCALE: 1" = 40' - 0"



T MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
GREEN LINE EXTENSION DESIGN-BUILD PROJECT
MBTA CONTRACT NO. E22CN07
SOMERVILLE/MEDFORD, MASSACHUSETTS

EAST SOMERVILLE STATION
SITE CONTEXT PLAN

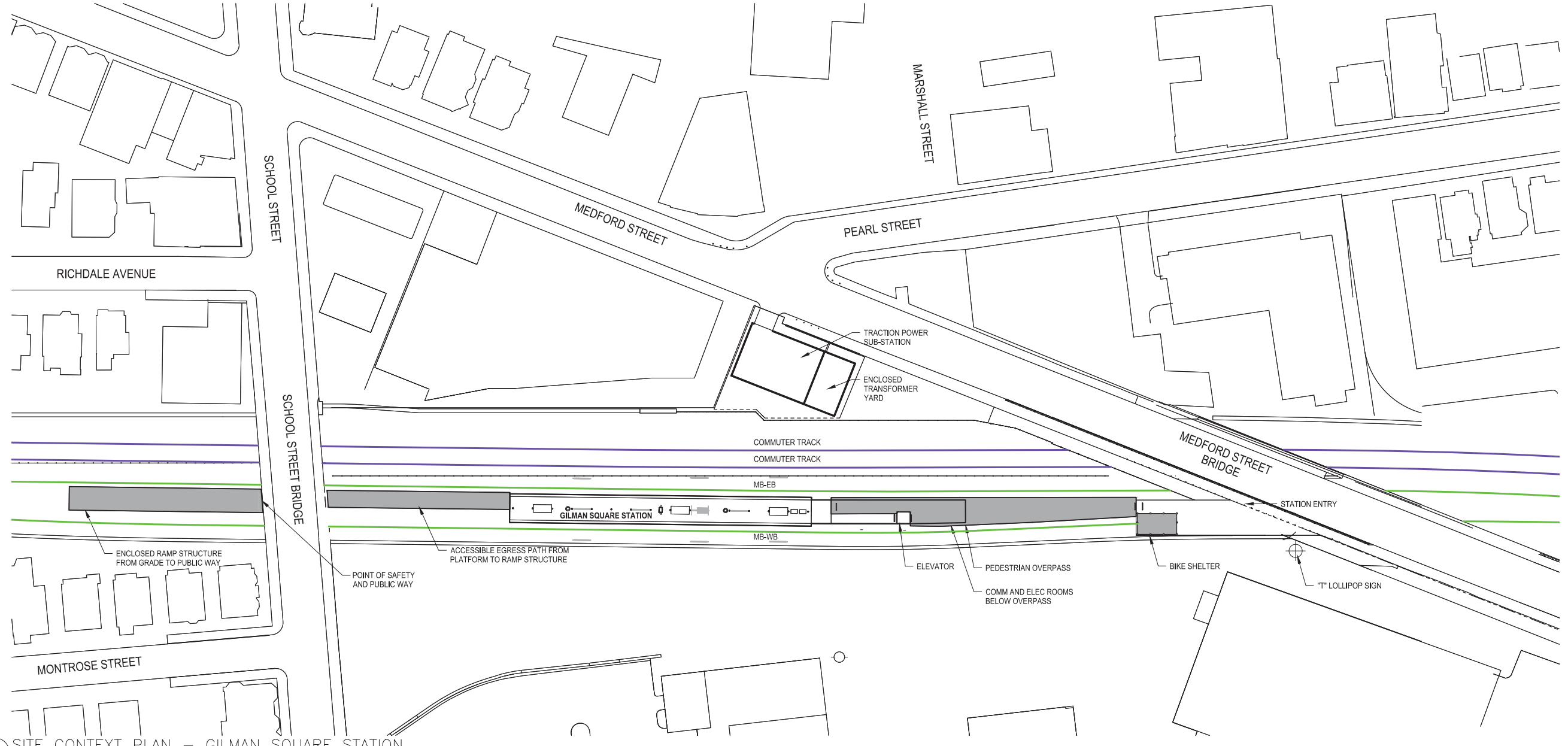
NOT FOR CONSTRUCTION



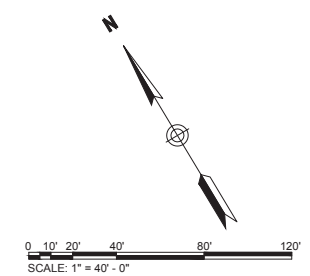
0	09/28/2017	TECHNICAL PROPOSAL			
ISSUE	DATE	DESCRIPTION	BY	CHKD	APP.

SCALE: As indicated	DRAWN BY	DESIGN BY	CHECK BY
DATE:			

PLAN NO.	ISSUE
SHEET: ESS-A-2000	0



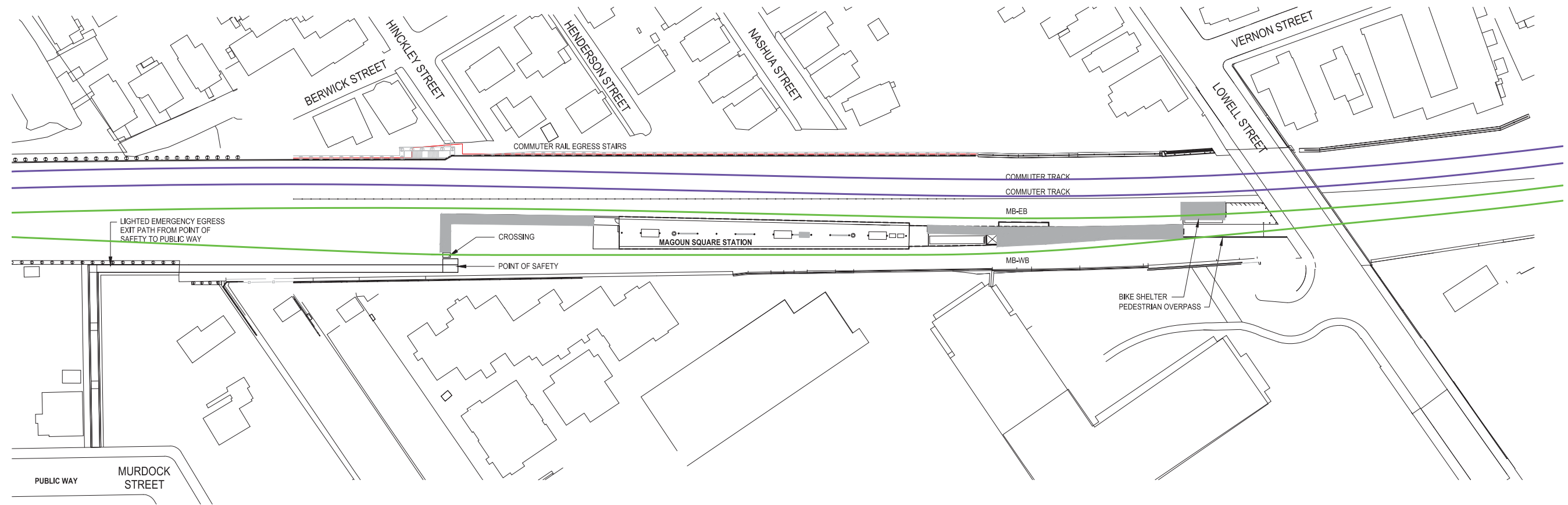
1 SITE CONTEXT PLAN – GILMAN SQUARE STATION
SCALE: 1" = 40' - 0"



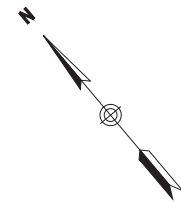
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
T GREEN LINE EXTENSION DESIGN-BUILD PROJECT
 MBTA CONTRACT NO. E22CN07
 SOMERVILLE/MEDFORD, MASSACHUSETTS

GILMAN SQUARE STATION
SITE CONTEXT PLAN

NOT FOR CONSTRUCTION					
	0	09/28/2017	TECHNICAL PROPOSAL		
ISSUE	DATE	DESCRIPTION	BY	CHKD	APP
SCALE: As indicated		DRAWN BY	DESIGN BY	CHECK BY	PLAN NO.
DATE:					SHEET: GSS-A-2000
					ISSUE 0



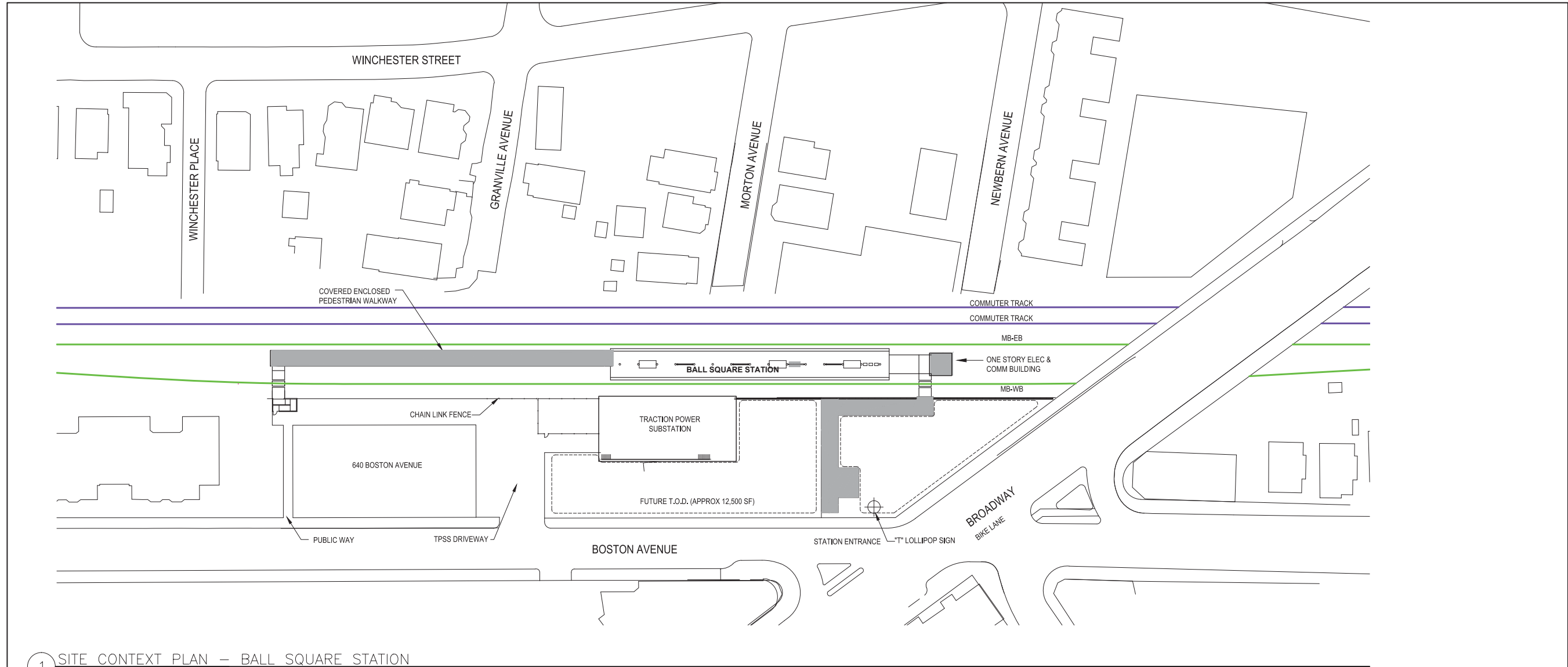
1 SITE CONTEXT PLAN - MAGOUN SQUARE
SCALE: 1"=40'-0"



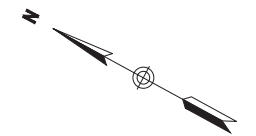
T MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
GREEN LINE EXTENSION DESIGN-BUILD PROJECT
MBTA CONTRACT NO. E22CN07
SOMERVILLE/MEDFORD, MASSACHUSETTS

**MAGOUN SQUARE STATION
SITE CONTEXT PLAN**

NOT FOR CONSTRUCTION	GLX		massDOT Massachusetts Department of Transportation		GLP Green Line Partners Lane • Si • Judlau • LMH-CMC JV		WSP	
	0	09/28/2017	TECHNICAL PROPOSAL					
	ISSUE	DATE	DESCRIPTION	BY	CHKD	APP.	DATE:	
SCALE: As indicated					DRAWN BY	DESIGN BY	CHECK BY	PLAN NO.
					SHEET: MSS-A-2000			ISSUE 0



1 SITE CONTEXT PLAN – BALL SQUARE STATION
SCALE: 1" = 40' - 0"



0 10' 20' 40' 80' 120'
SCALE: 1" = 40' - 0"

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
GREEN LINE EXTENSION DESIGN-BUILD PROJECT
MBTA CONTRACT NO. E22CM07
SOMERVILLE/MEDFORD, MASSACHUSETTS

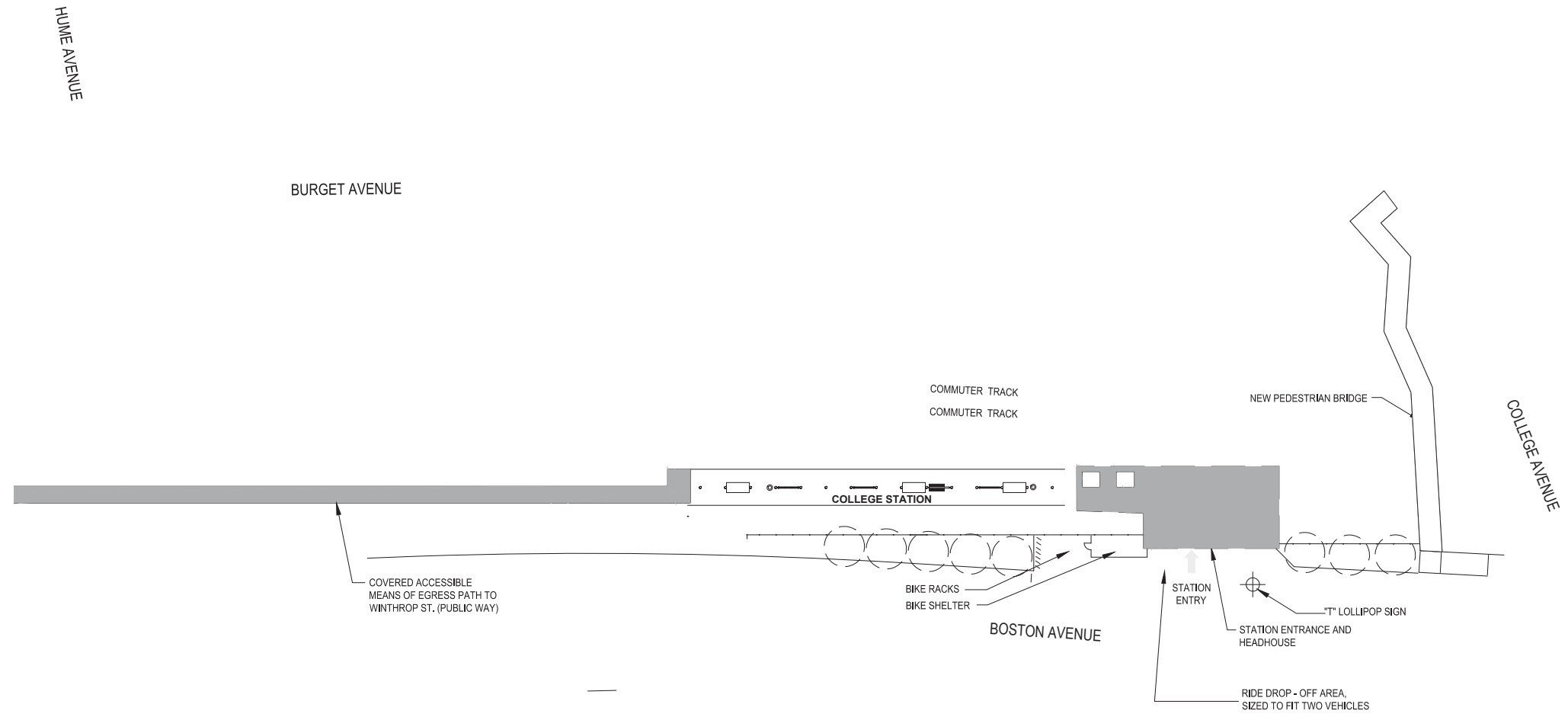
**BALL SQUARE STATION
SITE CONTEXT PLAN**

NOT FOR
CONSTRUCTION

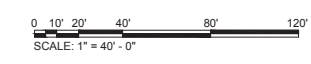
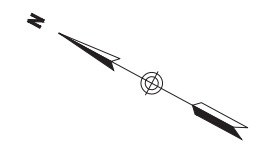
GLX		massDOT Massachusetts Department of Transportation	
0	09/28/2017	TECHNICAL PROPOSAL	
ISSUE	DATE	DESCRIPTION	BY CHKD APP.



SCALE:	DRAWN BY:	DESIGN BY:	CHECK BY:	PLAN NO.	ISSUE
DATE:				SHEET: BAS-A-2000	0



1 SITE PLAN - COLLEGE CONTEXT STATION
SCALE: 1" = 40' - 0"



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
GREEN LINE EXTENSION DESIGN-BUILD PROJECT
MBTA CONTRACT NO. E22CN07
SOMERVILLE/MEDFORD, MASSACHUSETTS

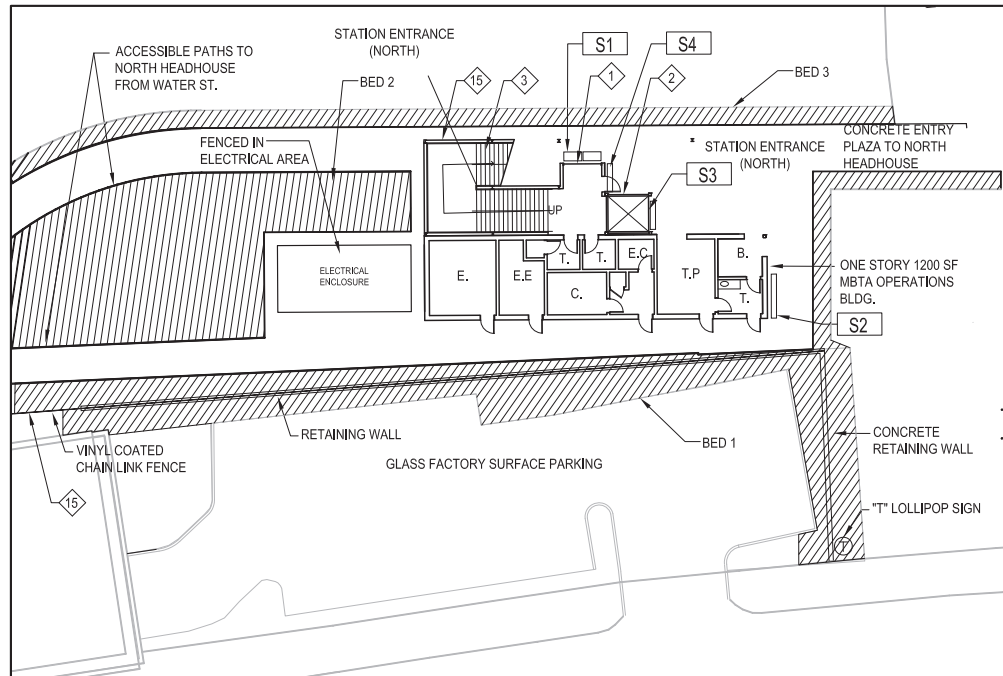
COLLEGE STATION
SITE CONTEXT PLAN

NOT FOR
CONSTRUCTION

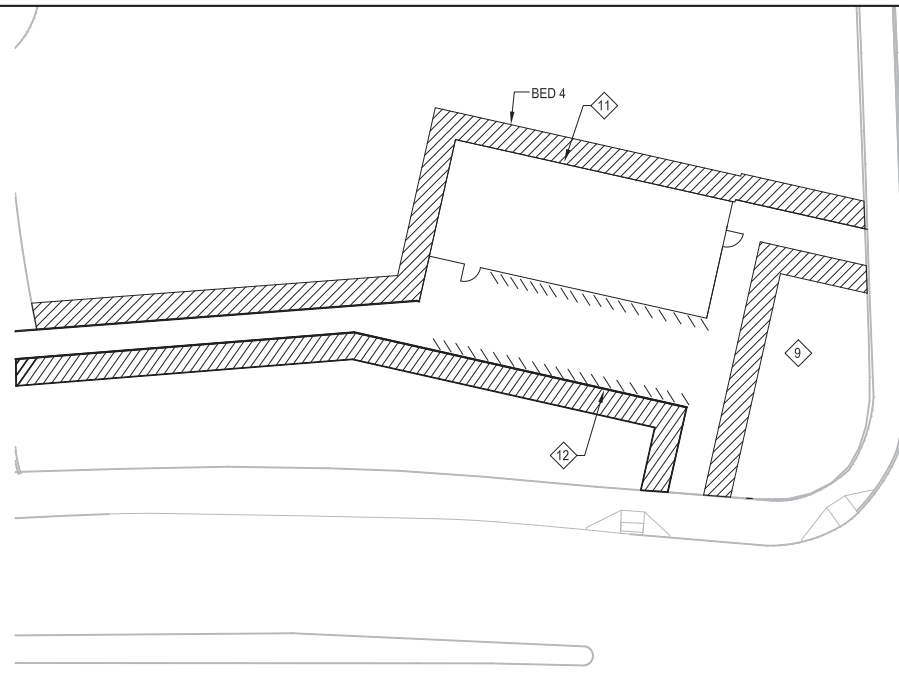
GLX		massDOT Massachusetts Department of Transportation	
0	09/28/2017	TECHNICAL PROPOSAL	
ISSUE	DATE	DESCRIPTION	BY CHKD APP.



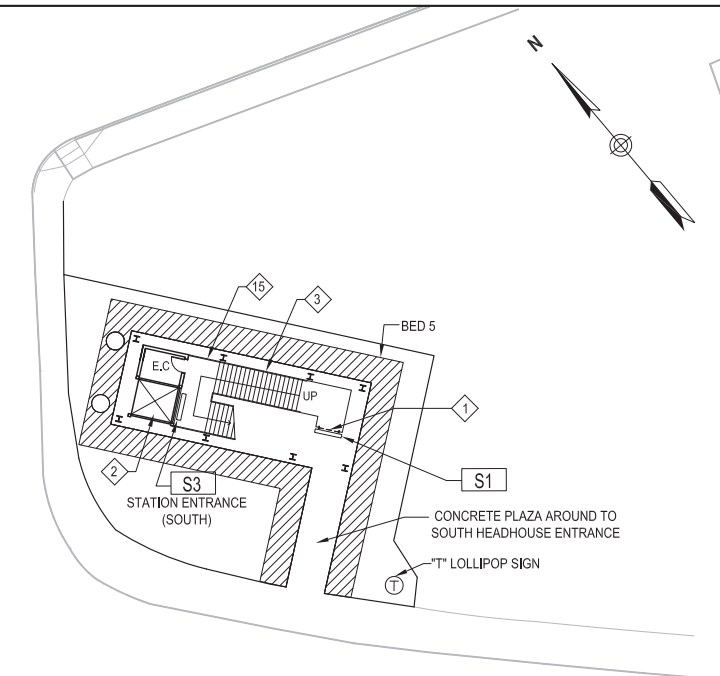
SCALE:	DRAWN BY:	DESIGN BY:	CHECK BY:	PLAN NO.:	ISSUE
DATE:				SHEET: COS-A-2000	0



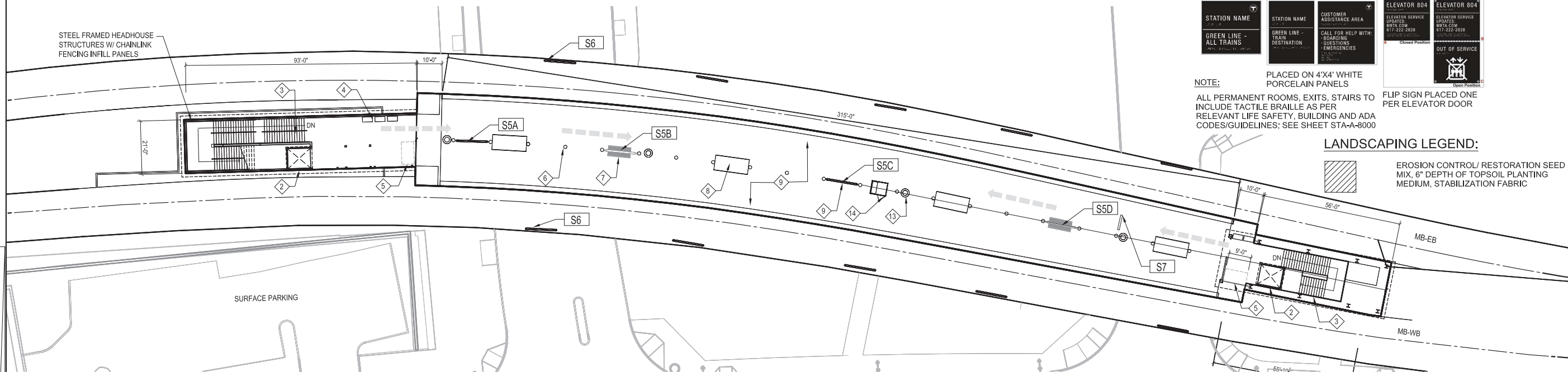
1 NORTH HEADHOUSE - STREET LEVEL
SCALE: 1" = 20' - 0"



2 SOUTH HEADHOUSE - STREET LEVEL
SCALE: 1/20" = 1' - 0"



3 SOUTH HEADHOUSE - STREET LEVEL
SCALE: 1/20" = 1' - 0"



3 SITE PLAN - PLATFORM LEVEL
SCALE: 1/20" = 1' - 0"

TACTILE BRAILLE

ENTRANCE	PLATFORM AT CAAS	ELEVATOR OUT OF SERVICE

NOTE:
ALL PERMANENT ROOMS, EXITS, STAIRS TO INCLUDE TACTILE BRAILLE AS PER RELEVANT LIFE SAFETY, BUILDING AND ADA CODES/GUIDELINES; SEE SHEET STA-A-8000

PLACED ON 4'X4' WHITE PORCELAIN PANELS

FLIP SIGN PLACED ONE PER ELEVATOR DOOR

LANDSCAPING LEGEND:

	EROSION CONTROL/ RESTORATION SEED MIX, 6" DEPTH OF TOPSOIL PLANTING MEDIUM, STABILIZATION FABRIC
--	--

- ### KEYNOTES
- | | |
|---------------------------------------|---|
| 1. ROLL-UP SECURITY GRILLE | 9. SIGNAGE MAP ASSEMBLY |
| 2. STEEL AND GLASS ELEVATOR | 10. PRECAST CONCRETE PLATFORM W/ TACTILE EDGE |
| 3. STEEL STAIR | 11. BICYCLE STORAGE |
| 4. FARE VENDING MACHINES | 12. BIKE RACK |
| 5. AREA OF RESCUE ASSISTANCE | 13. TRASH RECEPTACLE |
| 6. DUAL ARM LIGHT POLE | 14. SAND STORAGE BINS |
| 7. STEEL AND GLASS SHELTER WITH BENCH | 15. CHAIN LINK FENCE MISSILE BARRIER |
| 8. CUSTOMER ASSISTANCE AREA | |

- ### SHEET NOTES
1. PLATFORM LENGTH TO BE 300' MINIMUM TO ACCOMMODATE (1) FOUR-CAR LRV OR (2) TWO-CAR LRV.
 2. ELEVATOR CONTROL ROOM TO BE A MAXIMUM OF 10' AWAY FROM ELEVATORS
 3. COMMUNICATION ROOM AND ELECTRONIC FARE MANAGEMENT ROOM TO BE LOCATED ADJACENT TO EACH OTHER
 4. ALL ROADWAY WORK BY OTHERS
 5. UNPAVED AREAS WITHIN LIMIT OF WORK SHALL BE GRAVEL
- ### BIKE PARKING
- | | |
|-----------|------------|
| ENCLOSURE | 180 SPACES |
| OPEN | 70 SPACES |
- ← ACCESSIBLE PATH

SIGN TYPES

S1, S1-A, S1-B	ENTRANCE SIGN	A - FRONT (ENTRY)	B - BACK (EXIT)	S5	PLATFORM SIGN; SEE SHEET STA-A-8000
S2	LOBBY SIGN			S5A, S5B, S5C, S5D	-FRAME 1 -FRAME 2 -FRAME 3 -FRAME 4
S3	ELEVATOR SIGN			S6	TRACK SIGN
S4	EMERGENCY EXIT SIGN			S7	VARIABLE MESSAGING SIGN

T LOLLIPOP SIGN

SCALE: 1" = 20' - 0"

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

GREEN LINE EXTENSION DESIGN-BUILD PROJECT

MBTA CONTRACT NO. E22CN07

SOMERVILLE/MEDFORD, MASSACHUSETTS

LECHMERE STATION

SITE PLAN

NOT FOR CONSTRUCTION

GLP Green Line Partners
Lane • SI • Judlau • LMH-CMC JV

massDOT
Massachusetts Department of Transportation

0	09/28/2017	TECHNICAL PROPOSAL			
ISSUE	DATE	DESCRIPTION	BY	CHKD	APP.

SCALE: DATE: DRAWN BY: DESIGN BY: CHECK BY: PLAN NO. SHEET: **LES-A-2010** ISSUE: **0**

Location	Landscape Bed No.	Total Area SF	Sawcut Asphalt	Excavation/Topsoil Depth	Seeding/Fabric SF	2" Mulch SF	Flowering Trees 13'-15' Ht.	3" Cal. Trees	24"-36" Shrubs	Native Grasses/Perennials
Lechmere Station										
Perimeter Seeding	1	5729		6						
Perimeter Seeding	2	2828		6						
Perimeter Seeding	3	2600		6						
Perimeter Seeding	4	1414		6						
Perimeter Seeding	5	719		6						
East Somerville Station										
Perimeter Seeding		1254		6	1254					
Seeding/Stabiliz. Fabric		6032		12	6032					
Union Square Station										
R&R 15' Curb/Gutter	1	559	18	18	559			34		90
R&R 25' Curb/Gutter	2	333	18	18	333			12		100
R&R 25' Curb/Gutter	3	319	28	18	319			20		62
Gilman Square Station										
Seeding/Stabiliz. Fabric		2790		6	2790					

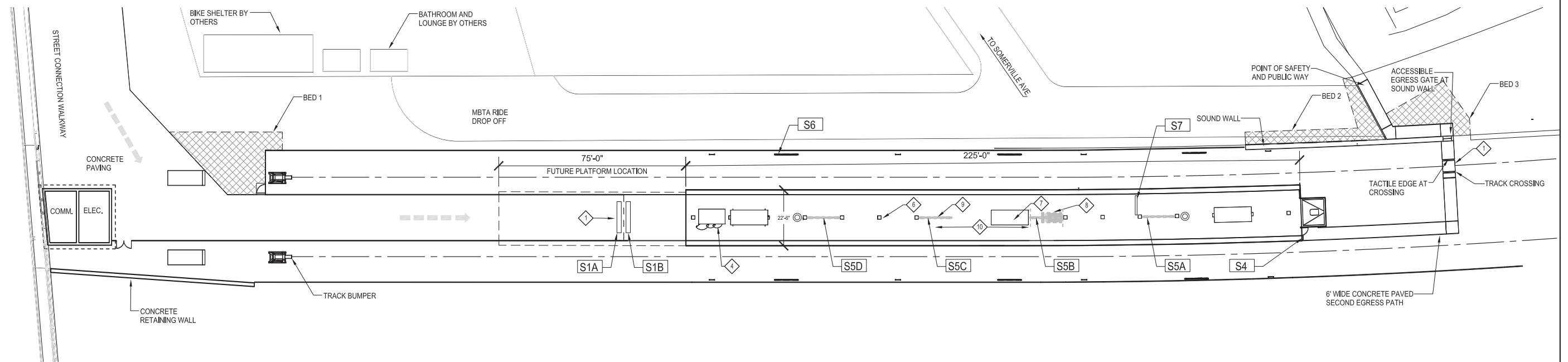
Location	Landscape Bed No.	Total Area SF	Sawcut Asphalt	Excavation/Topsoil Depth	Seeding/Fabric SF	2" Mulch SF	Flowering Trees 13'-15' Ht.	3" Cal. Trees	24"-36" Shrubs	Native Grasses/Perennials
Ball Square Station										
Perimeter Seeding (gravel surfs. per 2B.2)		1085		6	1085					
College Avenue Station										
	1	1207		36		1207	3		61	244
	2	2163		36		2163		5	110	440
	3	2528		18		2528			187	375
	4	7000		18		7000			260	1037
Perimeter Seeding	5	75			75					
Vehicle Maint. Facility										
	1	1187		36		1187		3	60	240
	2	359		18		406			20	80
	3	2,907		36		2,907		3	155	622
	4	521		36		521		1	27	108
	5	439		36		439		1	22	89
	6	497		36		497		1	26	106
Perimeter Seeding		2511		6	2511					
Perimeter Seeding		10343		6	10343					
Magoun Square Station										
Perimeter Seeding		304		6	304					

TACTILE BRAILLE

ENTRANCE **PLATFORM AT CAAs**

ELEVATOR OUT OF SERVICE

FLIP SIGN PLACED ONE PER ELEVATOR DOOR



1 SITE PLAN
SCALE: 1" = 20' - 0"

KEYNOTES

- 1 ROLL-UP SECURITY GRILLE
- 2 STEEL AND GLASS ELEVATOR
- 3 STEEL STAIR
- 4 FARE VENDING MACHINES
- 5 AREA OF RESCUE ASSISTANCE
- 6 DUAL ARM LIGHT POLE
- 7 STEEL AND GLASS SHELTER WITH BENCH
- 8 CUSTOMER ASSISTANCE AREA
- 9 SIGNAGE MAP ASSEMBLY
- 10 PRECAST CONCRETE PLATFORM W/ TACTILE EDGE
- 11 BICYCLE STORAGE
- 12 BIKE RACK
- 13 TRASH RECEPTACLE
- 14 SAND STORAGE BINS
- 15 CHAIN LINK FENCE MISSILE BARRIER

SHEET NOTES

- PLATFORM LENGTH TO BE 225' WITH A POTENTIAL EXTENSION TO 300'
- PROVIDE A COVERED EMERGENCY PEDESTRIAN WALKWAY
- COMMUNICATION ROOM AND ELECTRONIC FARE MANAGEMENT ROOM TO BE LOCATED ADJACENT TO EACH OTHER

BIKE PARKING

ENCLOSURE	86 SPACES
OPEN	34 SPACES

← ACCESSIBLE PATH

LANDSCAPING LEGEND:

SHRUB AND PERENNIAL PLANTING BED, 18" DEPTH OF TOPSOIL PLANTING MEDIUM, 2" DEPTH OF FINE-SHREDDED PINE BARK MULCH

SIGN TYPES

S1 ENTRANCE SIGN A - FRONT (ENTRY) B - BACK (EXIT)
S1-A, S1-B

S2 LOBBY SIGN

S3 ELEVATOR SIGN

S4 EMERGENCY EXIT SIGN

S5A-S5D PLATFORM SIGN; SEE SHEET STA-A-8000
-FRAME 1
-FRAME 2
-FRAME 3
-FRAME 4

S6 TRACK SIGN

S7 VARIABLE MESSAGING SIGN;

DO NOT ENTER

0 5' 10' 20' 40' 80'
SCALE: 1" = 20' - 0"

T MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
GREEN LINE EXTENSION DESIGN-BUILD PROJECT
MBTA CONTRACT NO. E22CN07
SOMERVILLE/MEDFORD, MASSACHUSETTS

UNION SQUARE STATION
SITE PLAN

GLP Green Line Partners
Lane • Si • Judlau • LMH-CMC JV

WSP

SCALE: As indicated DRAWN BY: DESIGN BY: CHECK BY: PLAN NO. ISSUE: 0

DATE: SHEET: **UNS-A-2010**

NOT FOR CONSTRUCTION

0	09/28/2017	TECHNICAL PROPOSAL			
ISSUE	DATE	DESCRIPTION	BY	CHK'D	APP.

TACTILE BRAILLE

ENTRANCE

PLATFORM AT CAAs

ELEVATOR OUT OF SERVICE

ELEVATOR 804

ELEVATOR 804

OUT OF SERVICE

STATION NAME
GREEN LINE - ALL TRAINS

STATION NAME
CUSTOMER ASSISTANCE AREA
CALL FOR HELP WITH:
BOARDING
QUESTIONS
EMERGENCIES

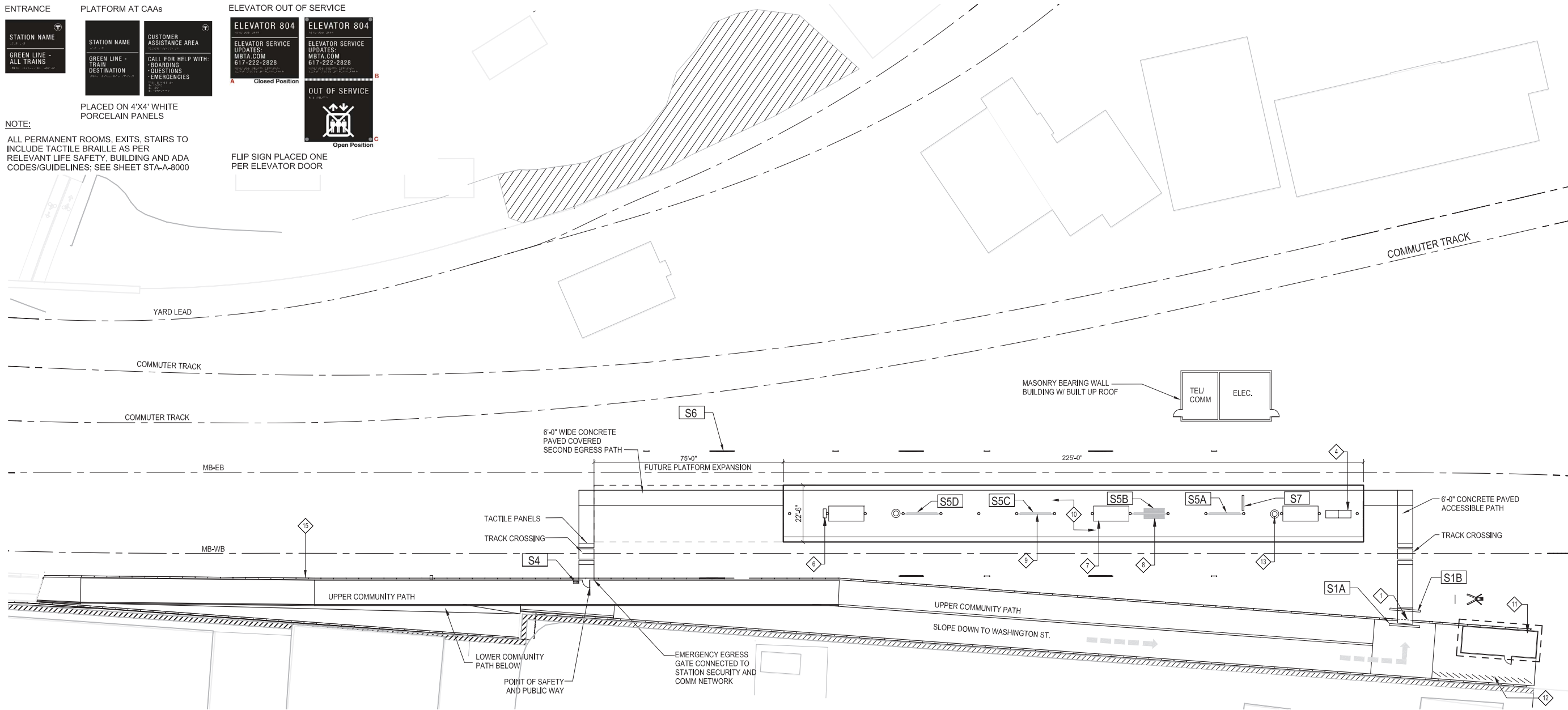
ELEVATOR SERVICE UPDATES:
MBTA.COM
617-222-2828

ELEVATOR SERVICE UPDATES:
MBTA.COM
617-222-2828

PLACED ON 4"x4" WHITE PORCELAIN PANELS

NOTE:
ALL PERMANENT ROOMS, EXITS, STAIRS TO INCLUDE TACTILE BRAILLE AS PER RELEVANT LIFE SAFETY, BUILDING AND ADA CODES/GUIDELINES; SEE SHEET STA-A-8000

FLIP SIGN PLACED ONE PER ELEVATOR DOOR



1 SITE PLAN
SCALE: 1" = 20' - 0"

KEYNOTES

- 1 ROLL-UP SECURITY GRILLE
- 2 STEEL AND GLASS ELEVATOR
- 3 STEEL STAIR
- 4 FARE VENDING MACHINES
- 5 AREA OF RESCUE ASSISTANCE
- 6 DUAL ARM LIGHT POLE
- 7 STEEL AND GLASS SHELTER WITH BENCH
- 8 CUSTOMER ASSISTANCE AREA
- 9 SIGNAGE MAP ASSEMBLY
- 10 PRECAST CONCRETE PLATFORM W/ TACTILE EDGE
- 11 BICYCLE STORAGE
- 12 BIKE RACK
- 13 TRASH RECEPTACLE
- 14 SAND STORAGE BINS
- 15 CHAIN LINK FENCE MISSILE BARRIER

SHEET NOTES

- PLATFORM LENGTH TO BE 225' WITH A POTENTIAL EXTENSION TO 300'.
- COMMUNICATION ROOM AND ELECTRONIC FARE MANAGEMENT ROOM TO BE LOCATED ADJACENT TO EACH OTHER.

BIKE PARKING

ENCLOSURE	50 SPACES
OPEN	20 SPACES

← ACCESSIBLE PATH

LANDSCAPING LEGEND:

EROSION CONTROL/ RESTORATION SEED MIX, 6" DEPTH OF TOPSOIL PLANTING MEDIUM, STABILIZATION FABRIC

SIGN TYPES

S1 ENTRANCE SIGN A - FRONT (ENTRY) B - BACK (EXIT)

S2 LOBBY SIGN

S3 ELEVATOR SIGN

S4 EMERGENCY EXIT SIGN

S5 PLATFORM SIGN; SEE SHEET STA-A-8000

S6 TRACK SIGN

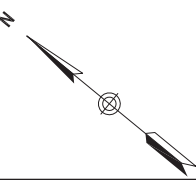
S7 VARIABLE MESSAGING SIGN;

S5A -FRAME 1
S5B -FRAME 2
S5C -FRAME 3
S5D -FRAME 4

S1A STATION NAME
GREEN LINE - TRAIN DESTINATION

S6 STATION NAME
GREEN LINE - TRAIN DESTINATION

S7 VARIABLE MESSAGING SIGN;



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

T GREEN LINE EXTENSION DESIGN-BUILD PROJECT
MBTA CONTRACT NO. E22CN07
SOMERVILLE/MEDFORD, MASSACHUSETTS

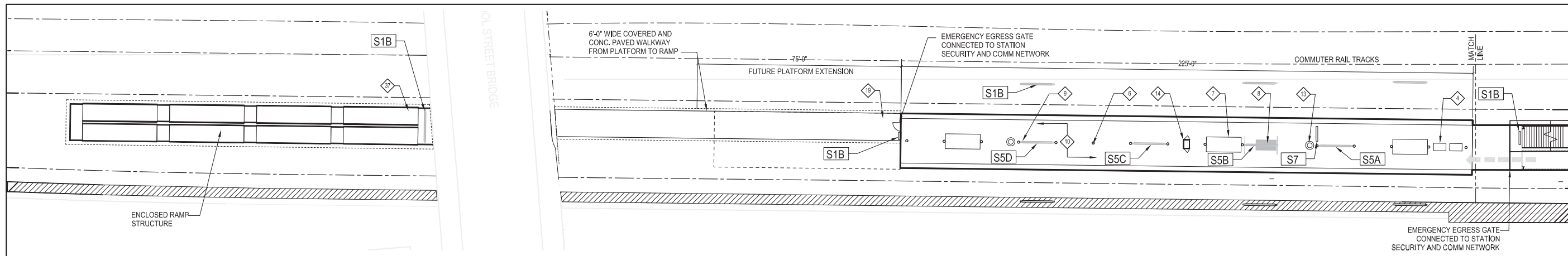
EAST SOMERVILLE STATION

SITE PLAN

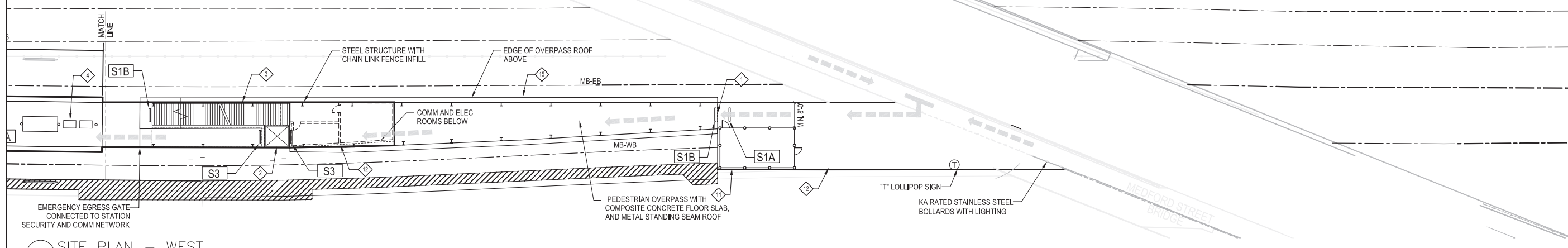
NOT FOR CONSTRUCTION

GLP	massDOT Massachusetts Department of Transportation					
0	09/28/2017	TECHNICAL PROPOSAL				
ISSUE	DATE	DESCRIPTION	BY	CHKD	APP.	

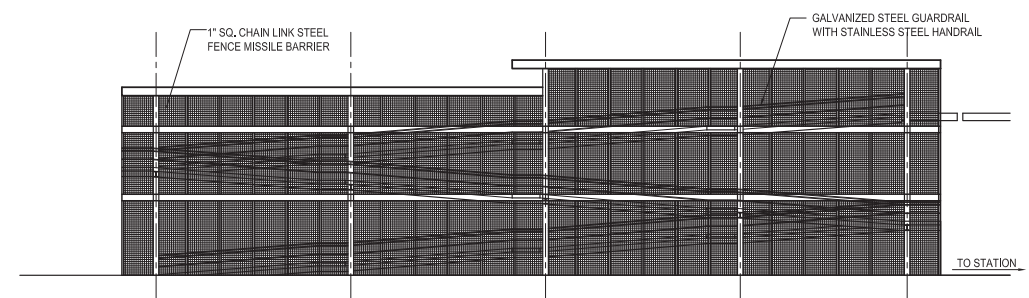
GLP Green Line Partners Lane • Si • Judlau • LMH-CMC JV	WSP				
SCALE: As indicated	DRAWN BY	DESIGN BY	CHECK BY	PLAN NO.	ISSUE
DATE:				SHEET: ESS-A-2010	0



1 SITE PLAN - EAST
SCALE: 1" = 20' - 0"



2 SITE PLAN - WEST
SCALE: 1" = 20' - 0"



3 RAMP ELEVATION
SCALE: 1/16" = 1' - 0"

TACTILE BRAILLE

ENTRANCE: STATION NAME, GREEN LINE - ALL TRAINS

PLATFORM AT CAAs: STATION NAME, CUSTOMER ASSISTANCE AREA, CALL FOR HELP WITH: BOARDING, QUESTIONS, EMERGENCIES

ELEVATOR OUT OF SERVICE: ELEVATOR 804, ELEVATOR SERVICE UPDATES: MBTA.COM 617-222-2828

T LOLLIPOP SIGN: T

NOTE: ALL PERMANENT ROOMS, EXITS, STAIRS TO INCLUDE TACTILE BRAILLE AS PER RELEVANT LIFE SAFETY, BUILDING AND ADA CODES/GUIDELINES; SEE SHEET STA-A-8000

FLIP SIGN PLACED ONE PER ELEVATOR DOOR

KEYNOTES

- 1 ROLL-UP SECURITY GRILLE
- 2 STEEL AND GLASS ELEVATOR
- 3 STEEL STAIR
- 4 FARE VENDING MACHINES
- 5 AREA OF RESCUE ASSISTANCE
- 6 DUAL ARM LIGHT POLE
- 7 STEEL AND GLASS SHELTER WITH BENCH
- 8 CUSTOMER ASSISTANCE AREA
- 9 SIGNAGE MAP ASSEMBLY
- 10 PRECAST CONCRETE PLATFORM W/ TACTILE EDGE
- 11 BICYCLE STORAGE
- 12 BIKE RACK
- 13 TRASH RECEPTACLE
- 14 SAND STORAGE BINS
- 15 CHAIN LINK FENCE MISSILE BARRIER

SHEET NOTES

- PLATFORM LENGTH TO BE 225' WITH A POTENTIAL EXTENSION TO 300'.
- COMMUNICATION ROOM AND ELECTRONIC FARE MANAGEMENT ROOM TO BE LOCATED ADJACENT TO EACH OTHER.

BIKE PARKING

ENCLOSURE	100 SPACES
OPEN	40 SPACES



LANDSCAPING LEGEND:

EROSION CONTROL/ RESTORATION SEED MIX, 6" DEPTH OF TOPSOIL PLANTING MEDIUM, STABILIZATION FABRIC

SIGN TYPES

S1 ENTRANCE SIGN A - FRONT (ENTRY) B - BACK (EXIT)

S2 LOBBY SIGN

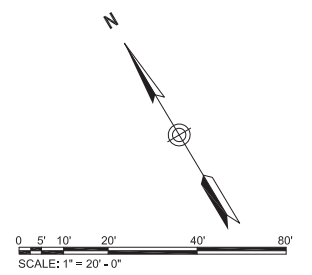
S3 ELEVATOR SIGN

S4 EMERGENCY EXIT SIGN

S5 PLATFORM SIGN; SEE SHEET STA-A-8000

S6 TRACK SIGN

S7 VARIABLE MESSAGING SIGN



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

GREEN LINE EXTENSION DESIGN-BUILD PROJECT
MBTA CONTRACT NO. E22CN07
SOMERVILLE/MEDFORD, MASSACHUSETTS

GILMAN SQUARE STATION

SITE PLAN

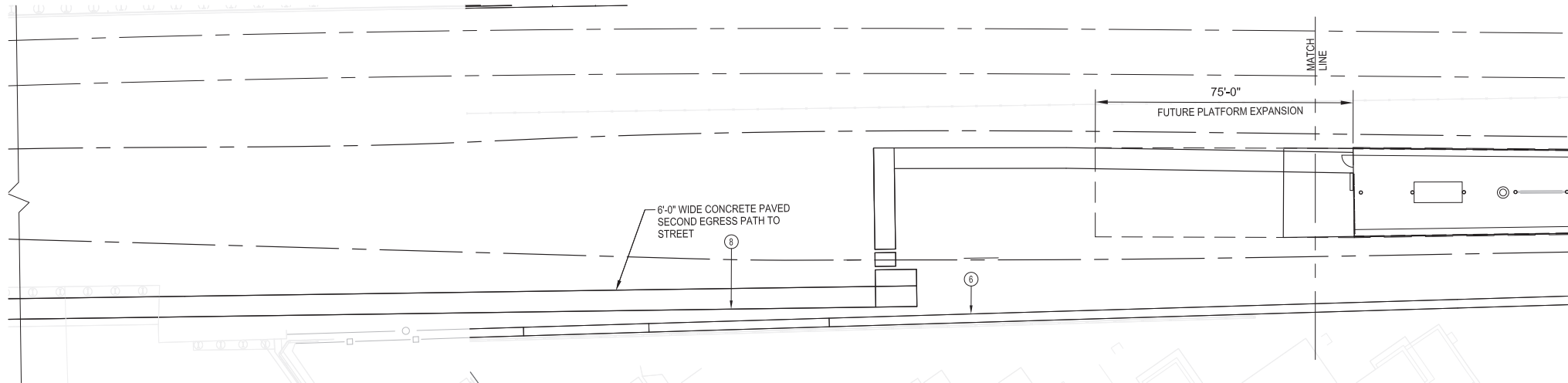
GLP Green Line Partners
Lane • Si • Judlau • LMH-CMC JV

WSP

ISSUE	DATE	DESCRIPTION	BY	CHKD	APP.
0	09/28/2017	TECHNICAL PROPOSAL			

SCALE: As Indicated DRAWN BY: DESIGN BY: CHECK BY: PLAN NO. DATE: SHEET: GSS-A-2010 ISSUE 0

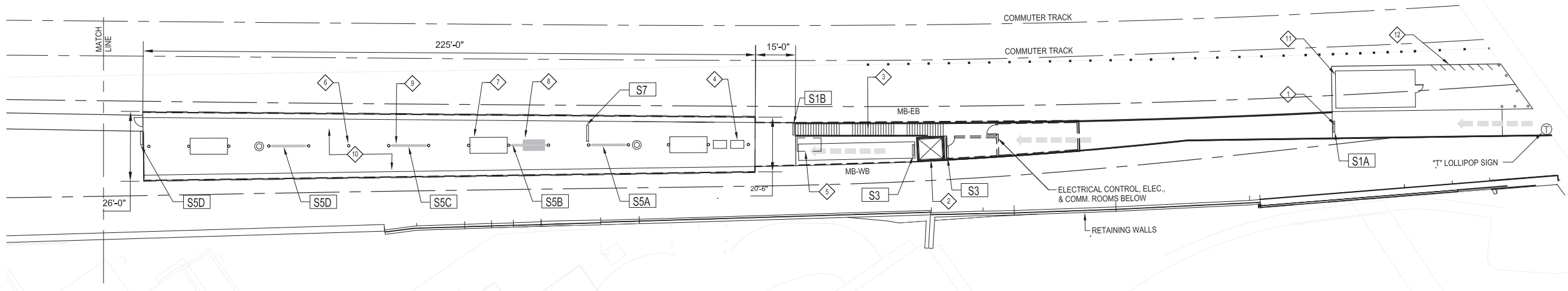
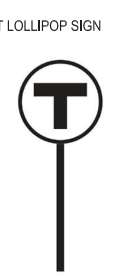
NOT FOR CONSTRUCTION



1 SITE PLAN - EAST
SCALE: 1" = 20' - 0"

SIGN TYPES

- S1 ENTRANCE SIGN A - FRONT (ENTRY) B - BACK (EXIT)
S1-A, S1-B
- S2 LOBBY SIGN
- S3 ELEVATOR SIGN
- S4 EMERGENCY EXIT SIGN
- S5 PLATFORM SIGN; SEE SHEET STA-A-8000
S5A - FRAME 1
S5B - FRAME 2
S5C - FRAME 3
S5D - FRAME 4
- S6 TRACK SIGN
- S7 VARIABLE MESSAGING SIGN



2 SITE PLAN - WEST
SCALE: 1" = 20' - 0"

KEYNOTES

- 1 ROLL-UP SECURITY GRILLE
- 2 STEEL AND GLASS ELEVATOR
- 3 STEEL STAIR
- 4 FARE VENDING MACHINES
- 5 AREA OF RESCUE ASSISTANCE
- 6 DUAL ARM LIGHT POLE
- 7 STEEL AND GLASS SHELTER WITH BENCH
- 8 CUSTOMER ASSISTANCE AREA
- 9 SIGNAGE MAP ASSEMBLY
- 10 PRECAST CONCRETE PLATFORM W/ TACTILE EDGE
- 11 BICYCLE STORAGE
- 12 BIKE RACK
- 13 TRASH RECEPTACLE
- 14 SAND STORAGE BINS
- 15 CHAIN LINK FENCE MISSILE BARRIER

SHEET NOTES

1. PLATFORM LENGTH TO BE 225' WITH A POTENTIAL EXTENSION TO 300'
2. PROVIDE A COVERED EMERGENCY PEDESTRIAN WALKWAY
3. COMMUNICATION ROOM AND ELECTRONIC FARE MANAGEMENT ROOM TO BE LOCATED ADJACENT TO EACH OTHER

BIKE PARKING

ENCLOSURE	35 SPACES
OPEN	15 SPACES



TACTILE BRAILLE

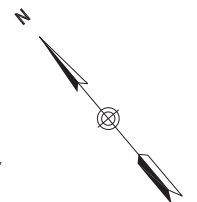
ENTRANCE

PLATFORM AT CAAs

ELEVATOR OUT OF SERVICE

NOTE:
ALL PERMANENT ROOMS, EXITS, STAIRS TO INCLUDE TACTILE BRAILLE AS PER RELEVANT LIFE SAFETY, BUILDING AND ADA CODES/GUIDELINES; SEE SHEET STA-A-8000

FLIP SIGN PLACED ONE PER ELEVATOR DOOR



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
GREEN LINE EXTENSION DESIGN-BUILD PROJECT
MBTA CONTRACT NO. E22CN07
SOMERVILLE/MEDFORD, MASSACHUSETTS

MAGOUN SQUARE STATION
SITE PLAN

NOT FOR CONSTRUCTION

0	09/28/2017	TECHNICAL PROPOSAL										
ISSUE	DATE	DESCRIPTION	BY	CHK'D	APP.	DATE:	SCALE: As indicated	DRAWN BY	DESIGN BY	CHECK BY	PLAN NO.	ISSUE
												0

SHEET: **MSS-A-2010**

TACTILE BRILLE

ENTRANCE



PLATFORM AT CAAS



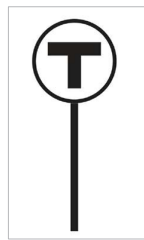
PLACED ON 4'X4' WHITE PORCELAIN PANELS

ELEVATOR OUT OF SERVICE



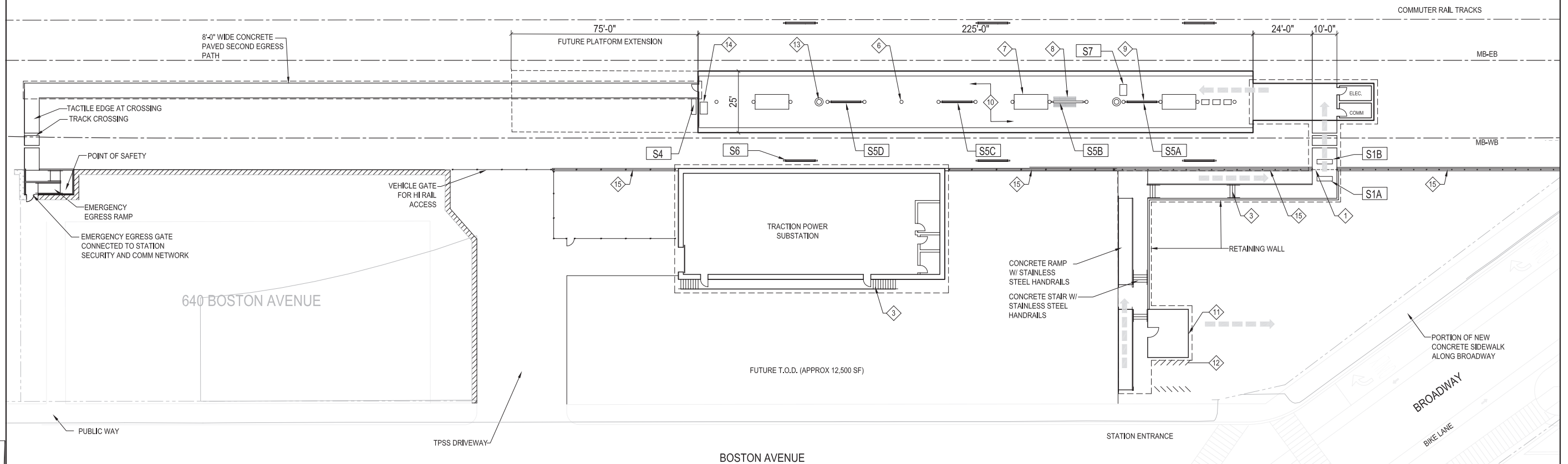
FLIP SIGN PLACED ONE PER ELEVATOR DOOR

T LOLLIPOP SIGN



NOTE:

ALL PERMANENT ROOMS, EXITS, STAIRS TO INCLUDE TACTILE BRILLE AS PER RELEVANT LIFE SAFETY, BUILDING AND ADA CODES/GUIDELINES; SEE SHEET STA-A-8000



1 SITE PLAN -- PLATFORM LEVEL
SCALE: 1" = 20' - 0"

KEYNOTES

- 1 ROLL-UP SECURITY GRILLE
- 2 STEEL AND GLASS ELEVATOR
- 3 STEEL STAIR
- 4 FARE VENDING MACHINES
- 5 AREA OF RESCUE ASSISTANCE
- 6 DUAL ARM LIGHT POLE
- 7 STEEL AND GLASS SHELTER WITH BENCH
- 8 CUSTOMER ASSISTANCE AREA
- 9 SIGNAGE MAP ASSEMBLY
- 10 PRECAST CONCRETE PLATFORM W/ TACTILE EDGE
- 11 BICYCLE STORAGE
- 12 BIKE RACK
- 13 TRASH RECEPTACLE
- 14 SAND STORAGE BINS
- 15 CHAIN LINK FENCE MISSILE BARRIER

SHEET NOTES

- PLATFORM LENGTH TO BE 225' WITH A POTENTIAL EXTENSION TO 300'
- PROVIDE A COVERED EMERGENCY PEDESTRIAN WALKWAY
- COMMUNICATION ROOM AND ELECTRONIC FARE MANAGEMENT ROOM TO BE LOCATED ADJACENT TO EACH OTHER

BIKE PARKING

ENCLOSURE	50 SPACES
OPEN	20 SPACES

← ACCESSIBLE PATH

LANDSCAPING LEGEND:



SIGN TYPES

S1 ENTRANCE SIGN A - FRONT (ENTRY) B - BACK (EXIT)
S1-A, S1-B

S2 LOBBY SIGN

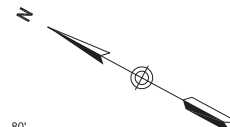
S3 ELEVATOR SIGN

S4 EMERGENCY EXIT SIGN

S5A-S5D PLATFORM SIGN; SEE SHEET STA-A-8000
-FRAME 1
-FRAME 2
-FRAME 3
-FRAME 4

S6 TRACK SIGN

S7 VARIABLE MESSAGING SIGN;



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
GREEN LINE EXTENSION DESIGN-BUILD PROJECT
MBTA CONTRACT NO. E22CN07
SOMERVILLE/MEDFORD, MASSACHUSETTS

**BALL SQUARE STATION
SITE PLAN**

NOT FOR CONSTRUCTION

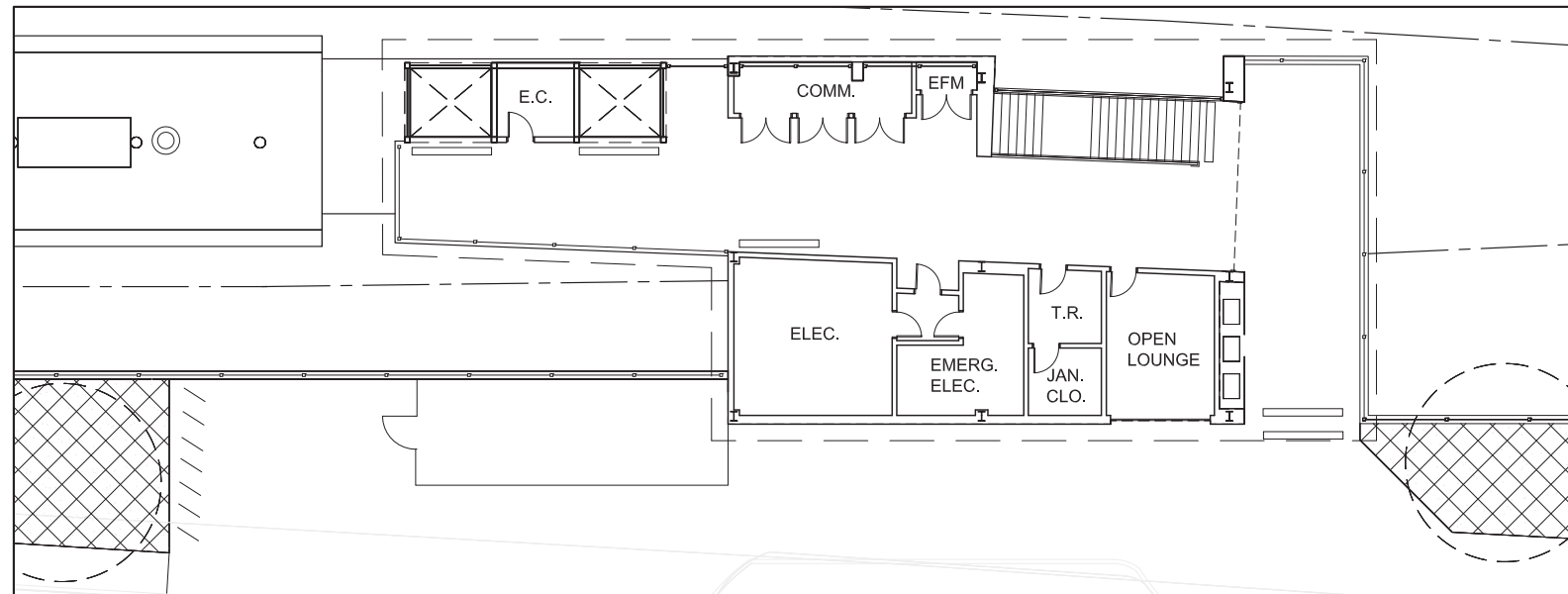
GLP Green Line Partners
Lane • Si • Judlau • LMH-CMC JV

massDOT Massachusetts Department of Transportation

0 09/28/2017 TECHNICAL PROPOSAL

ISSUE	DATE	DESCRIPTION	BY	CHK'D	APP.

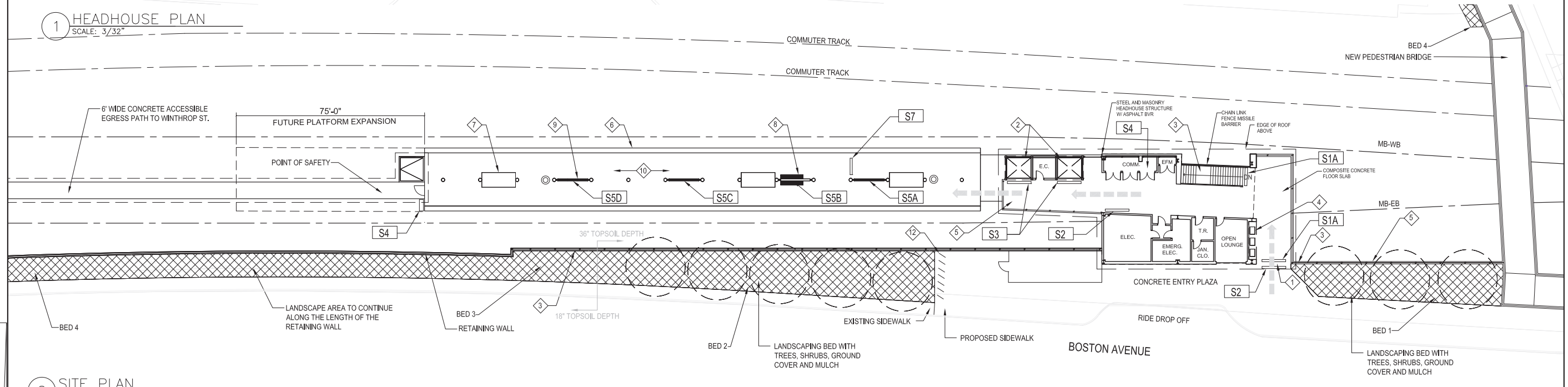
SCALE: DATE: DRAWN BY: DESIGN BY: CHECK BY: PLAN NO. SHEET: **BAS-A-2010** ISSUE **0**



1 HEADHOUSE PLAN
SCALE: 3/32"

SIGN TYPES

- S1 ENTRANCE SIGN A - FRONT (ENTRY) B - BACK (EXIT)
S1A, S1B
- S2 LOBBY SIGN
- S3 ELEVATOR SIGN
- S4 EMERGENCY EXIT SIGN
- S5 PLATFORM SIGN; SEE SHEET STA-A-8000
S5A -FRAME 1
S5B -FRAME 2
S5C -FRAME 3
S5D -FRAME 4
- S6 TRACK SIGN
- S7 VARIABLE MESSAGING SIGN;



2 SITE PLAN
SCALE: 1" = 20' - 0"

KEYNOTES

- 1 ROLL-UP SECURITY GRILLE
- 2 STEEL AND GLASS ELEVATOR
- 3 STEEL STAIR
- 4 FARE VENDING MACHINES
- 5 AREA OF RESCUE ASSISTANCE
- 6 DUAL ARM LIGHT POLE
- 7 STEEL AND GLASS SHELTER WITH BENCH
- 8 CUSTOMER ASSISTANCE AREA
- 9 SIGNAGE MAP ASSEMBLY
- 10 PRECAST CONCRETE PLATFORM W/ TACTILE EDGE
- 11 BICYCLE STORAGE
- 12 BIKE RACK
- 13 TRASH RECEPTACLE
- 14 SAND STORAGE BINS
- 15 CHAIN LINK FENCE MISSILE BARRIER

SHEET NOTES

- PLATFORM LENGTH TO BE 225' WITH A POTENTIAL EXTENSION TO 300'
 - PROVIDE A COVERED EMERGENCY PEDESTRIAN WALKWAY
 - COMMUNICATION ROOM AND ELECTRONIC FARE MANAGEMENT ROOM TO BE LOCATED ADJACENT TO EACH OTHER
- BIKE PARKING**
- | | |
|-----------|-----------|
| ENCLOSURE | 50 SPACES |
| OPEN | 20 SPACES |
- ← ACCESSIBLE PATH

LANDSCAPING LEGEND:

- EROSION CONTROL/ RESTORATION SEED MIX, 6" DEPTH OF TOPSOIL PLANTING MEDIUM, STABILIZATION FABRIC
- TREE, SHRUB AND PERENNIAL PLANTING BED, 18" OR 36" DEPTH OF TOPSOIL PLANTING MEDIUM, 2" DEPTH OF FINE-SHREDDED PINE BARK MULCH

TACTILE BRAILLE

ENTRANCE

PLATFORM AT CAAs

ELEVATOR OUT OF SERVICE

NOTE: ALL PERMANENT ROOMS, EXITS, STAIRS TO INCLUDE TACTILE BRAILLE AS PER RELEVANT LIFE SAFETY, BUILDING AND ADA CODES/GUIDELINES; SEE SHEET STA-A-8000



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
GREEN LINE EXTENSION DESIGN-BUILD PROJECT
MBTA CONTRACT NO. E22CN07
SOMERVILLE/MEDFORD, MASSACHUSETTS

**COLLEGE STATION
SITE PLAN**

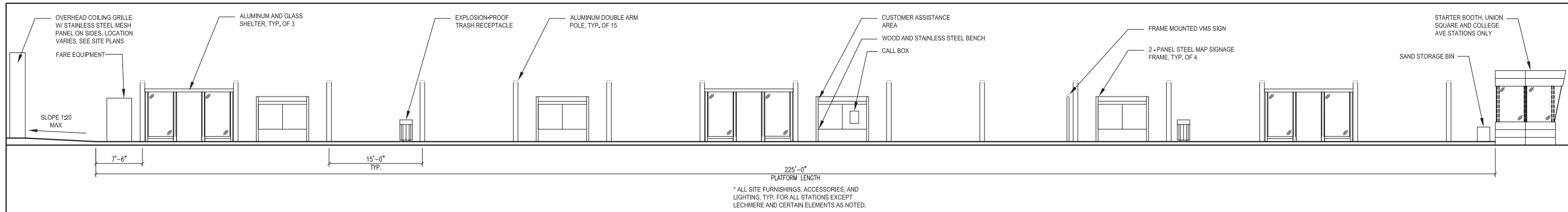
NOT FOR CONSTRUCTION

0	09/28/2017	TECHNICAL PROPOSAL			
ISSUE	DATE	DESCRIPTION	BY	CHKD	APP.

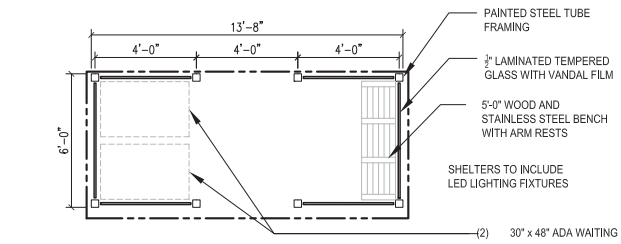
GLP Green Line Partners
Lane • Si • Judlau • LMH-CMC JV

massDOT
Massachusetts Department of Transportation

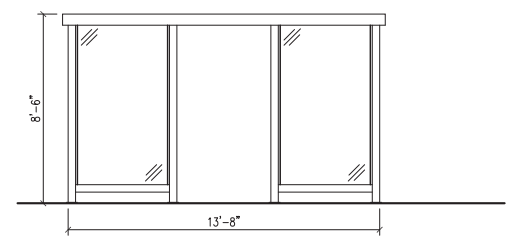
SCALE: DRAWN BY: DESIGN BY: CHECK BY: PLAN NO. DATE: SHEET: COS-A-2010 ISSUE 0



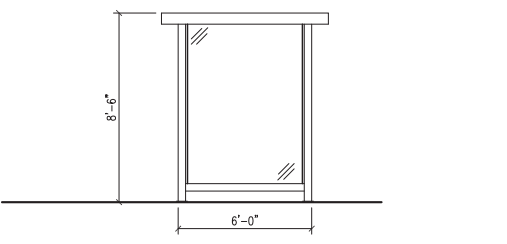
1 TYP. PLATFORM ELEVATION
SCALE: 1/8"=1'-0"



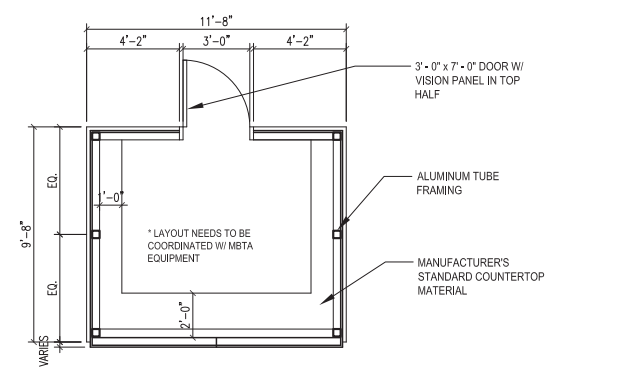
2 TYP. SHELTER PLAN
SCALE: 1/4"=1'-0"



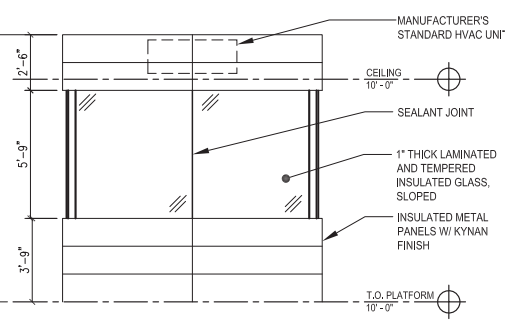
3 TYP. SHELTER FRONT ELEVATION
SCALE: 1/4"=1'-0"



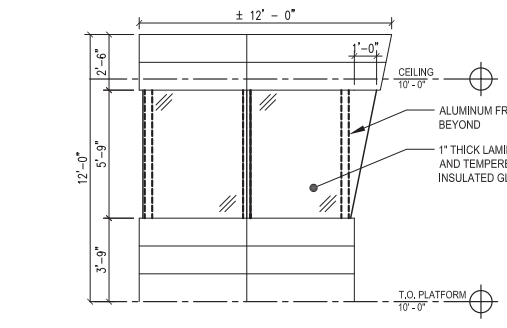
4 TYP. SHELTER SIDE ELEVATION
SCALE: 1/4"=1'-0"



5 TYP. STARTER BOOTH PLAN
SCALE: 1/4"=1'-0"

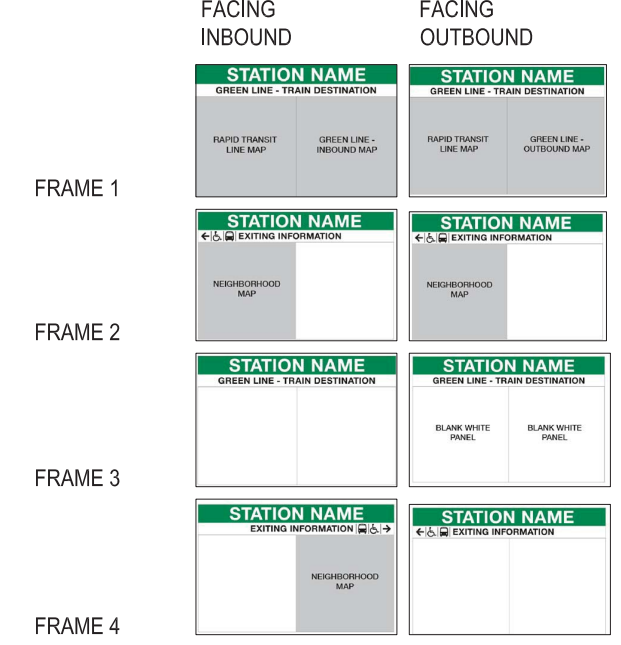


6 TYP. STARTER BOOTH FRONT ELEVATION
SCALE: 1/4"=1'-0"

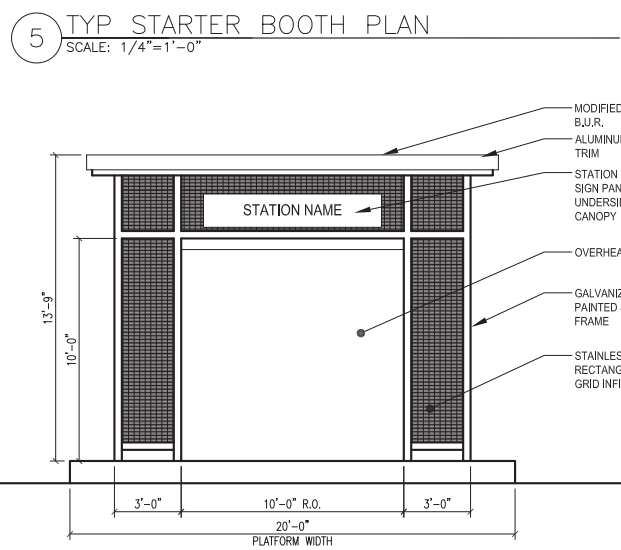


7 TYP. STARTER BOOTH SIDE ELEVATION
SCALE: 1/4"=1'-0"

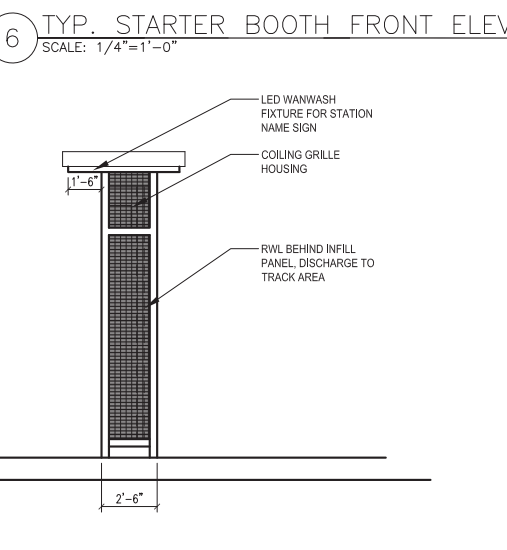
PLATFORM SIGN PANELS



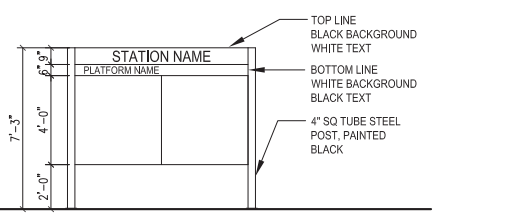
11 PLATFORM SIGNS
NTS



8 SECURITY GRILLE ELEVATION
SCALE: 1/4"=1'-0"



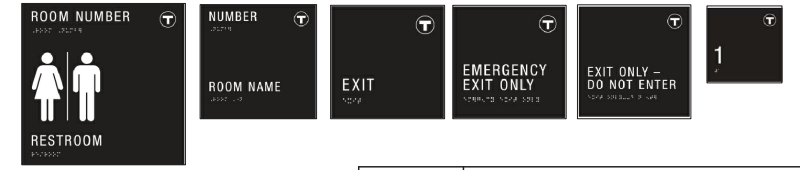
9 SECURITY GRILLE ELEVATION
SCALE: 1/4"=1'-0"



- SIGN PANELS MAY CONTAIN:
1. SYSTEM MAP
 2. LINE MAP
 3. CUSTOMER ASSISTANCE PHONES
 4. NEIGHBORHOOD MAP
 5. BLANK PANEL

10 TYP. SIGNAGE
SCALE: 1/4"=1'-0"

ADDITIONAL TACTILE SIGNAGE: IF APPLICABLE



NOTES:
ALL PERMANENT ROOMS, EXITS, STAIRS TO INCLUDE TACTILE BRAILLE AS PER RELEVANT LIFE SAFETY, BUILDING AND ADA CODES/GUIDELINES.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
GREEN LINE EXTENSION DESIGN-BUILD PROJECT
MBTA CONTRACT NO. E22CN07
SOMERVILLE/MEDFORD, MASSACHUSETTS

STATION DETAILS
TYP. STATION DETAILS

GLP Green Line Partners
Lane • SI • Judlau • LMH-CMC JV

WSP

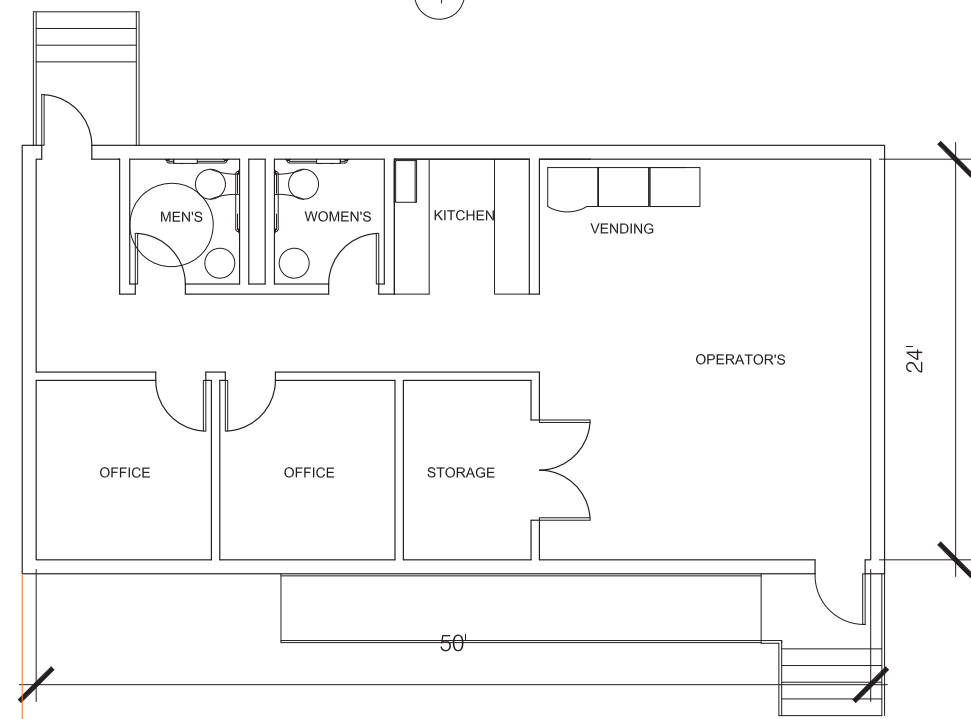
SCALE:	DRAWN BY:	DESIGN BY:	CHECK BY:	PLAN NO.	ISSUE
DATE:				SHEET: STA-A-8000	

NOT FOR CONSTRUCTION

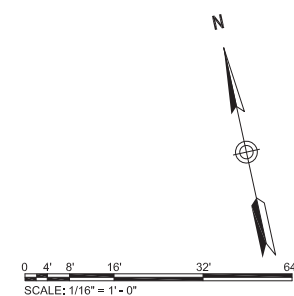
0	09/28/2017	TECHNICAL PROPOSAL			
ISSUE	DATE	DESCRIPTION	BY	CHKD	APP.



1 VEHICLE MAINTENANCE FACILITY RENDERING



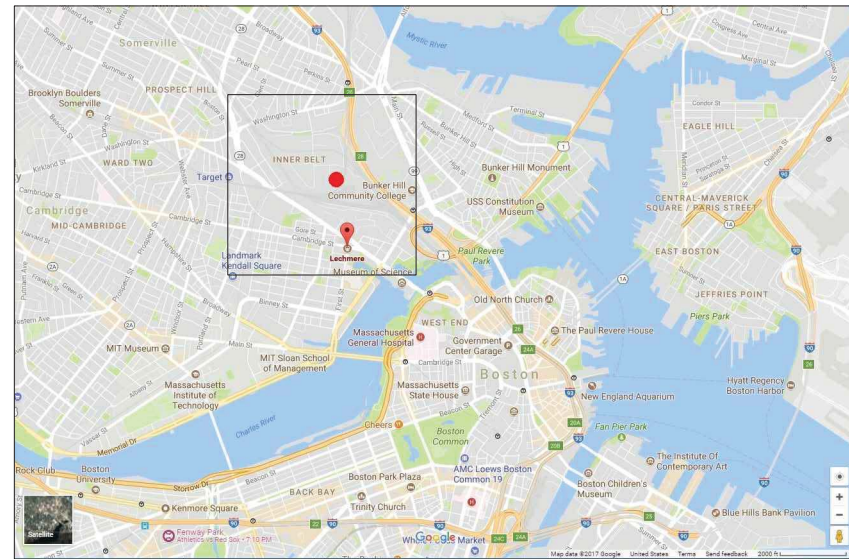
2 TRANSPORTATION BUILDING PLAN
SCALE: 3/16" = 1' - 0"



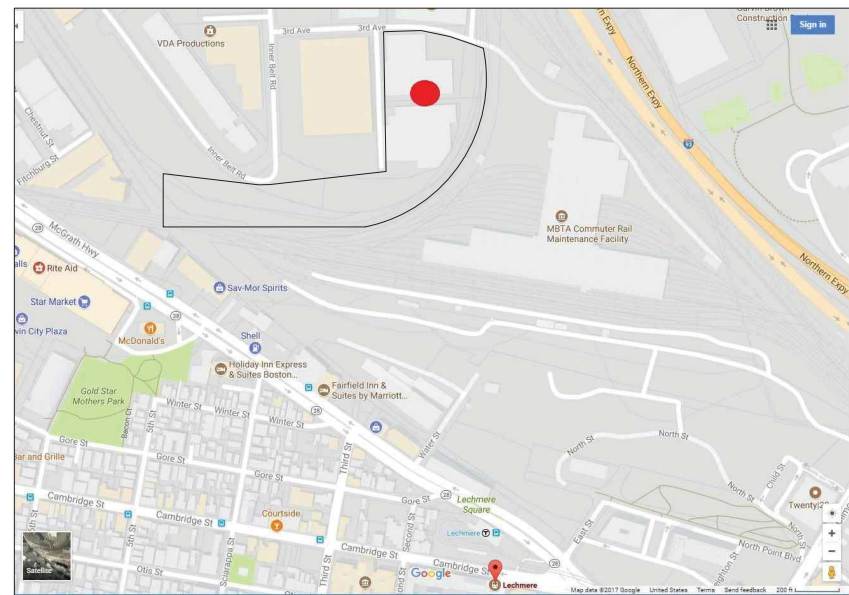
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
GREEN LINE EXTENSION DESIGN-BUILD PROJECT
MBTA CONTRACT NO. E22CN07
SOMERVILLE/MEDFORD, MASSACHUSETTS

**VEHICLE MAINTENANCE FACILITY
ARCHITECTURAL RENDER**

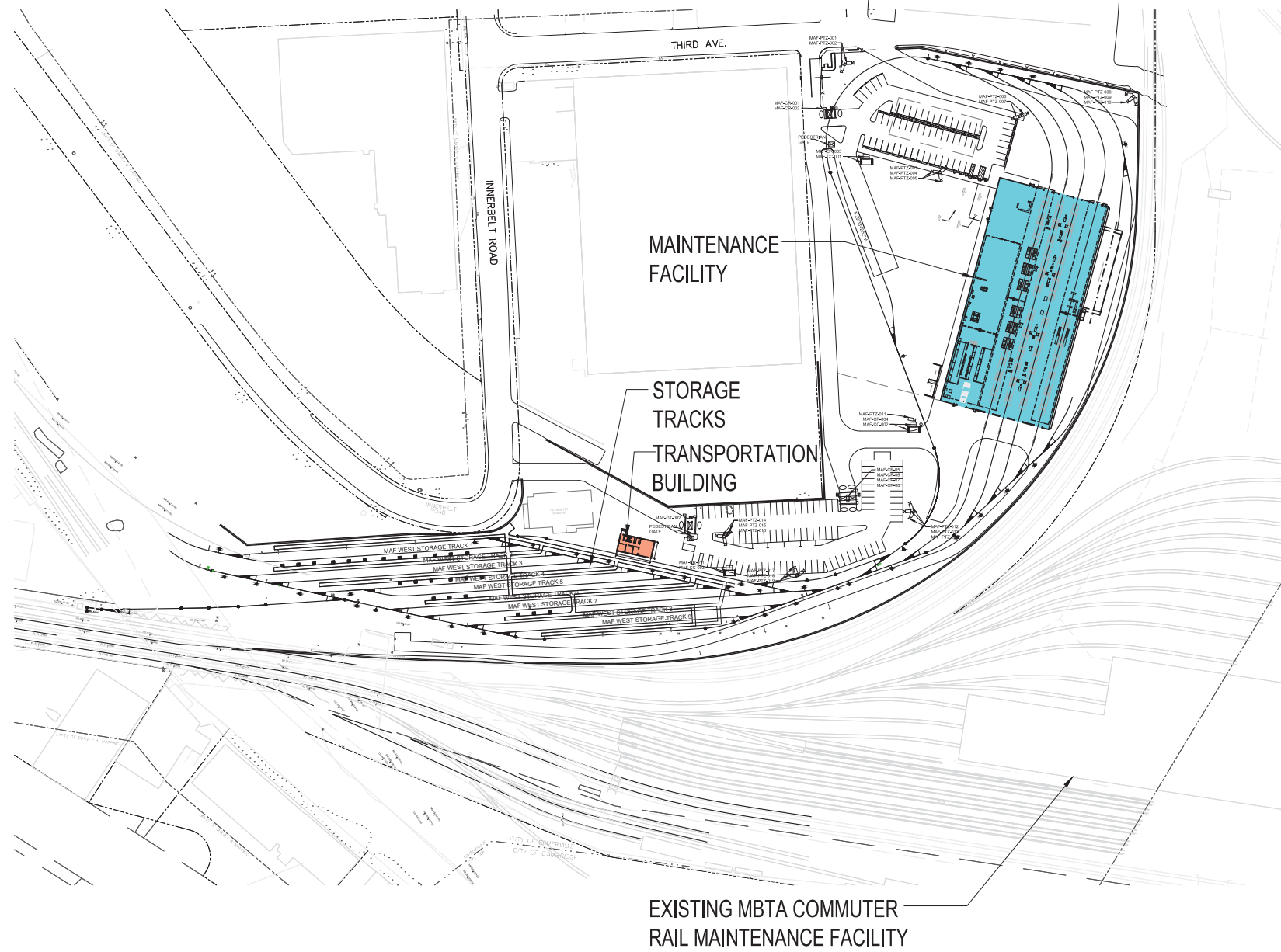
NOT FOR CONSTRUCTION	GLP		massDOT Massachusetts Department of Transportation		GLP Green Line Partners Lane • Si • Judlau • LMH-CMC JV		WSP	
	0	09/28/2017	TECHNICAL PROPOSAL					
	ISSUE	DATE	DESCRIPTION	BY	CHK'D	APP.	SCALE:	DRAWN BY
							DATE:	DESIGN BY
							CHECK BY	PLAN NO.
								SHEET: MAF-A-000
								ISSUE
								0



1 SITE VICINITY MAP
SCALE: NTS



2 SITE VICINITY MAP
SCALE: NTS

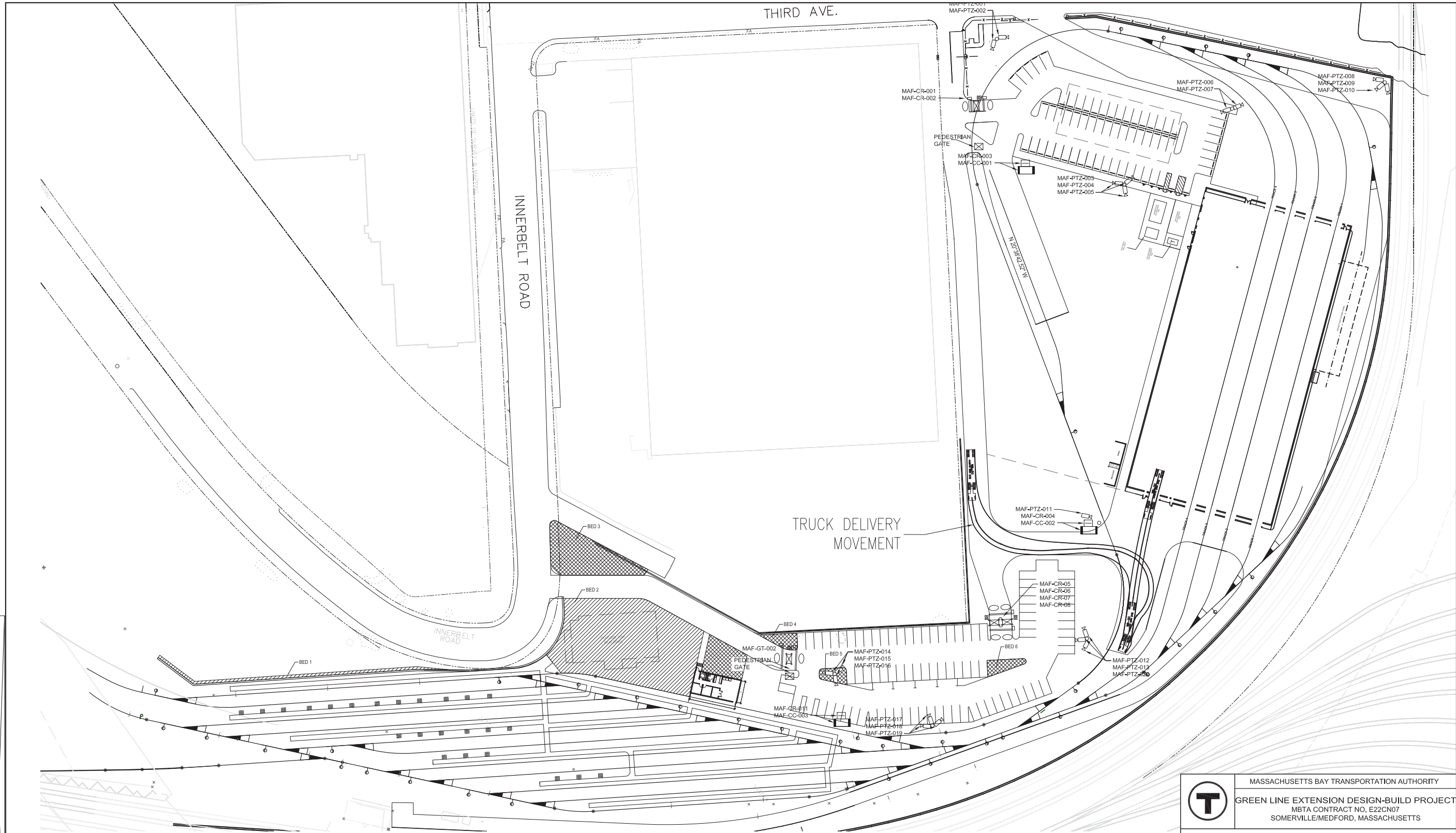


3 SITE CONTEXT PLAN
SCALE: 1" = 100'



T MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
GREEN LINE EXTENSION DESIGN-BUILD PROJECT
MBTA CONTRACT NO. E22CN07
SOMERVILLE/MEDFORD, MASSACHUSETTS

**VEHICLE MAINTENANCE FACILITY
SITE PLAN**

NOT FOR CONSTRUCTION	GLP		massDOT Massachusetts Department of Transportation		GLP Green Line Partners Lane • Si • Judlau • LMH-CMC JV		WSP				
	0	09/28/2017	TECHNICAL PROPOSAL								
ISSUE	DATE	DESCRIPTION	BY	CHKD	APP.	SCALE:	DRAWN BY	DESIGN BY	CHECK BY	PLAN NO.	ISSUE
						DATE:				SHEET: MAF-A-2000	0



1 SITE CONTEXT PLAN
SCALE: 1" = 50' - 0"

- LEGEND:
-  EROSION CONTROL/RESTORATION SEED MIX, 6" DEPTH OF TOPSOIL PLANTING MEDIUM, STABILIZATION FABRIC
 -  SHRUB AND PERENNIAL PLANTING BED, 18" DEPTH OF TOPSOIL PLANTING MEDIUM, 2" DEPTH OF FINE-SHREDDED PINE BARK MULCH

NOT FOR CONSTRUCTION

0		09/28/2017	TECHNICAL PROPOSAL						
ISSUE	DATE	DESCRIPTION	BY	CHK'D	APP.	DATE			

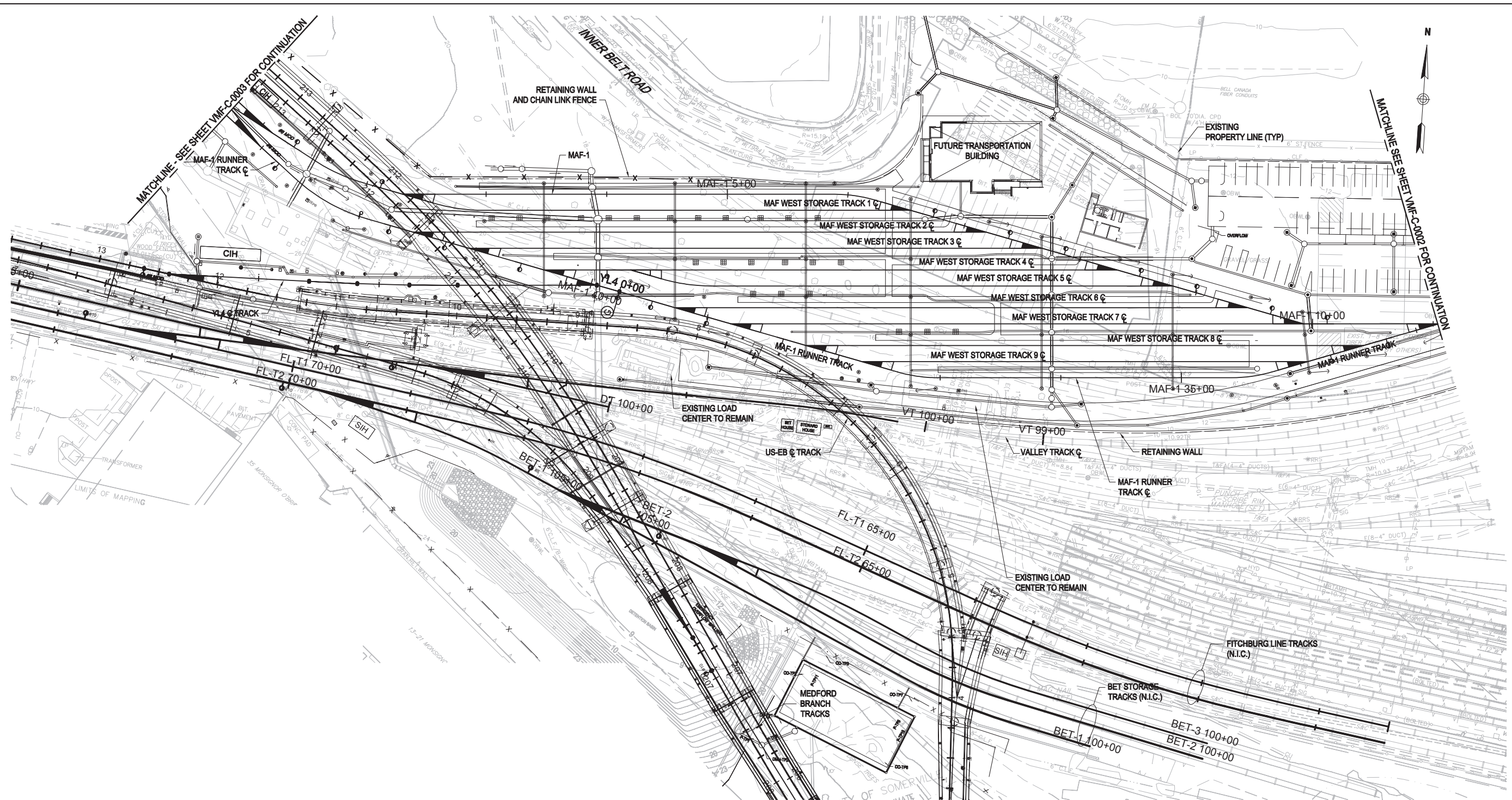
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
T GREEN LINE EXTENSION DESIGN-BUILD PROJECT
 MBTA CONTRACT NO. E22CN07
 SOMERVILLE/MEDFORD, MASSACHUSETTS

**VEHICLE MAINTENANCE FACILITY
 SITE PLAN, LANDSCAPE AND SITE SECURITY**



SCALE:	DRAWN BY:	DESIGN BY:	CHECK BY:	PLAN NO.:	ISSUE
DATE:				SHEET: MAF-A-2010	0

PLOTTED: 09/22/17 6:48AM BY: NEWMAN
 DRAWING: C:\BAS\WSP-PB-US-PW-03\WSP...LEWIS, NEWMAN\DM525674\VMF-C-0001.DWG [C-0001] 09/21/17 6:31PM



PLAN



 MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
GREEN LINE EXTENSION DESIGN-BUILD PROJECT
 MBTA CONTRACT NO. E22CN07
 SOMERVILLE/MEDFORD, MASSACHUSETTS

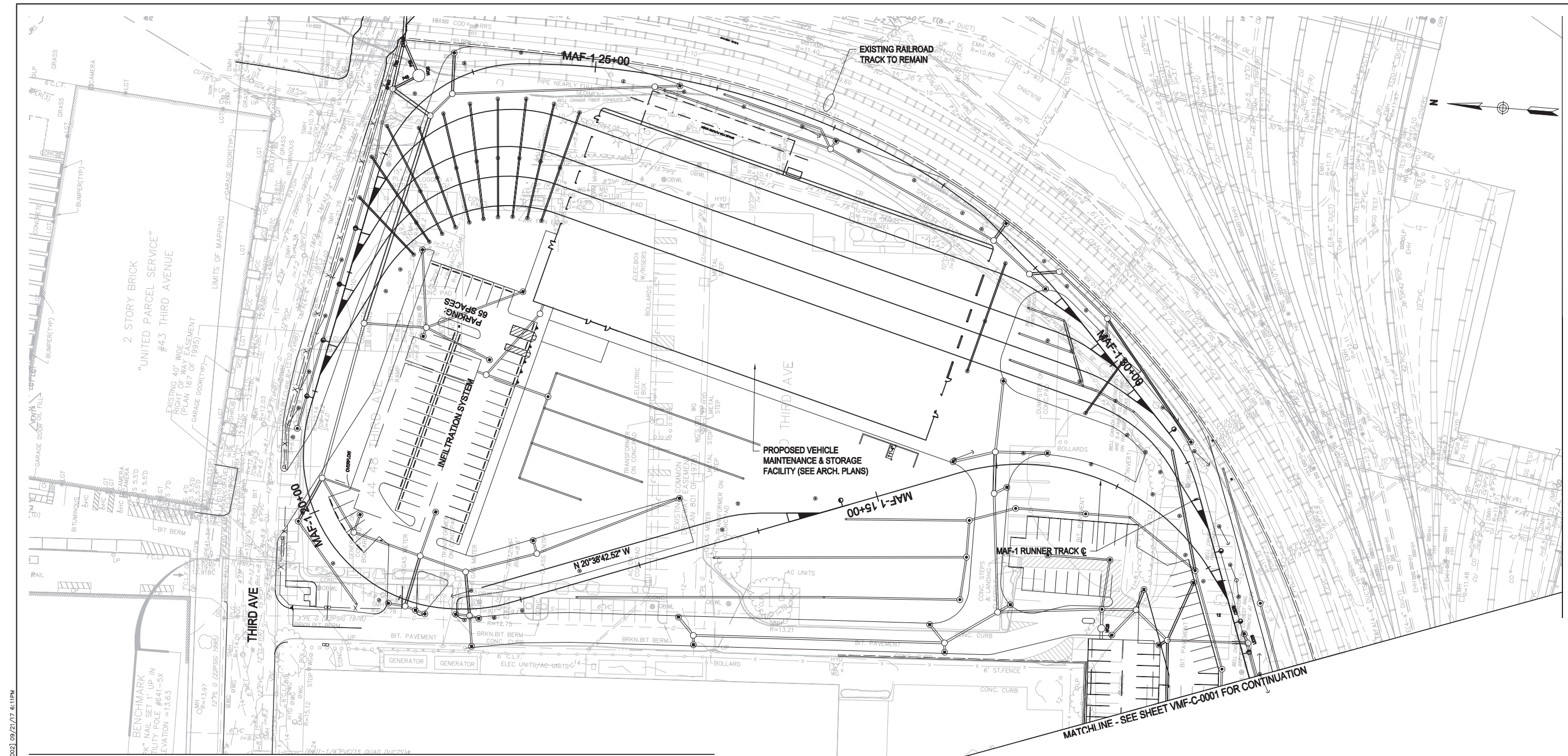
VEHICLE MAINTENANCE & STORAGE FACILITY
SITE PLAN
SHEET 1

NOT FOR CONSTRUCTION

GLX	massDOT Massachusetts Department of Transportation	0	09/28/2017	TECHNICAL PROPOSAL			
		ISSUE	DATE	DESCRIPTION	BY	CHKD	APP

 **Green Line Partners**
 Lane • Si • Judlau • LMH-CMC JV

SCALE: AS NOTED	DRAWN BY: PFS	DESIGN BY: IMM	CHECK BY: ECD	PLAN NO.	ISSUE
DATE: 28SEPT2017				SHEET: VMF-C-0001	<input type="radio"/>



PLAN



PLOTTED: 09/22/17 10:29AM BY: NEWMAN
 DRAWING: C:\BAS\WSP-PB-US-PW-02\WSP-LEWIS NEWMAN\DWG5671\VMF-C-0002.DWG [C-2002] 09/21/17 6:11PM

NOT FOR CONSTRUCTION

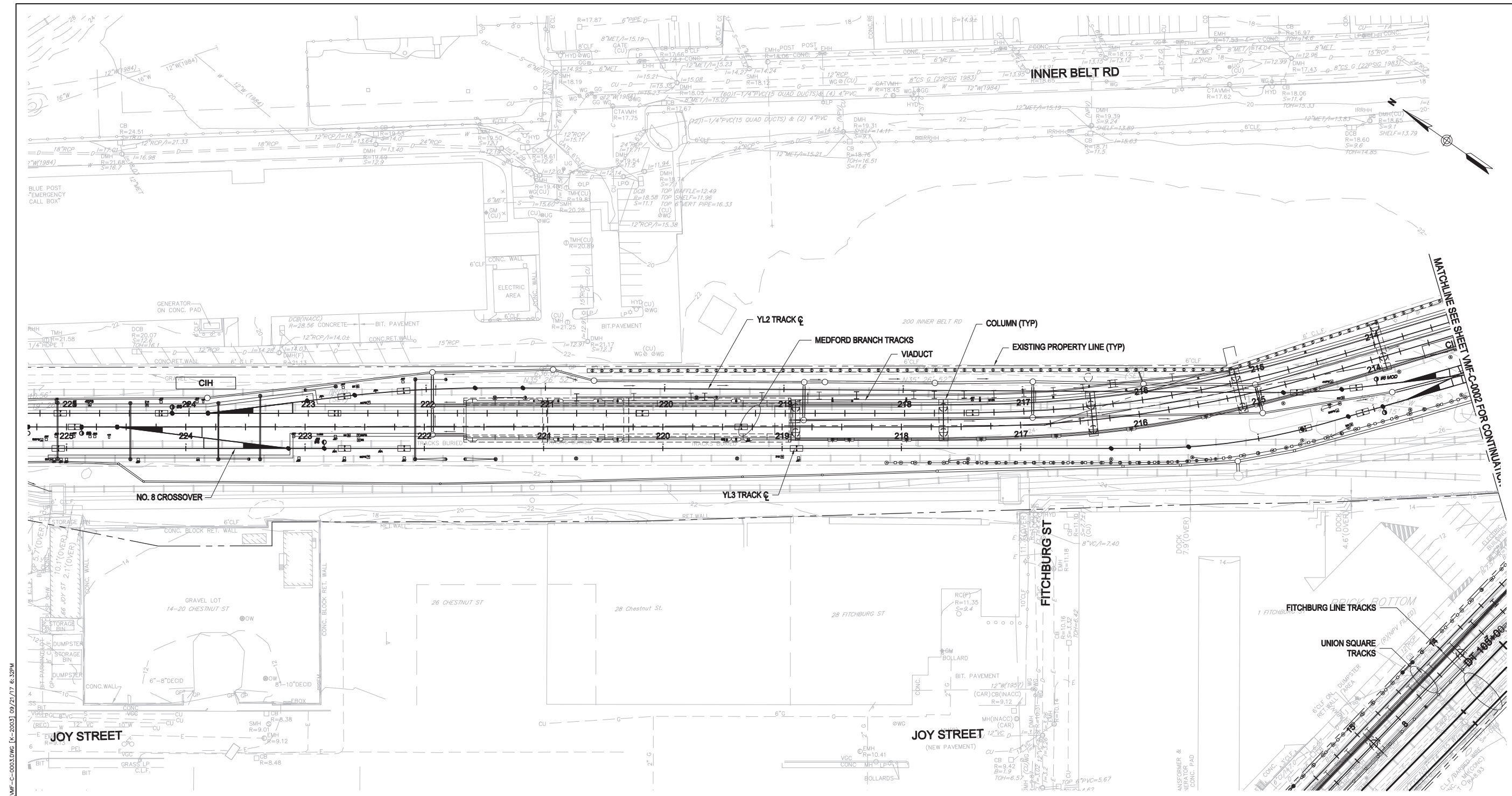
GLX	massDOT Massachusetts Department of Transportation				
0	09/28/2017	TECHNICAL PROPOSAL			
ISSUE	DATE	DESCRIPTION	BY	CHKD	APP

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
GREEN LINE EXTENSION DESIGN-BUILD PROJECT
 MBTA CONTRACT NO. E22CN07
 SOMERVILLE/MEDFORD, MASSACHUSETTS

VEHICLE MAINTENANCE & STORAGE FACILITY
SITE PLAN
SHEET 2

GLP Green Line Partners
 Lane • Si • Judlau • LMH-CMC JV

SCALE: AS NOTED	DRAWN BY: PFS	DESIGN BY: IMM	CHECK BY: ECD	PLAN NO.	ISSUE
DATE: 28SEPT2017				SHEET: VMF-C-0002	<input type="radio"/>



PLOTTED: 09/22/17 10:01AM BY: NEWMAN LEWIS NEWMAN\DW505674\VMF-C-0003.DWG [K-2003] 09/21/17 6:32PM
 DRAWING: C:\BAS\WSP-US-FW-02\WSP



T MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
 GREEN LINE EXTENSION DESIGN-BUILD PROJECT
 MBTA CONTRACT NO. E22CN07
 SOMERVILLE/MEDFORD, MASSACHUSETTS

VEHICLE MAINTENANCE & STORAGE FACILITY
 SITE PLAN
 SHEET 3

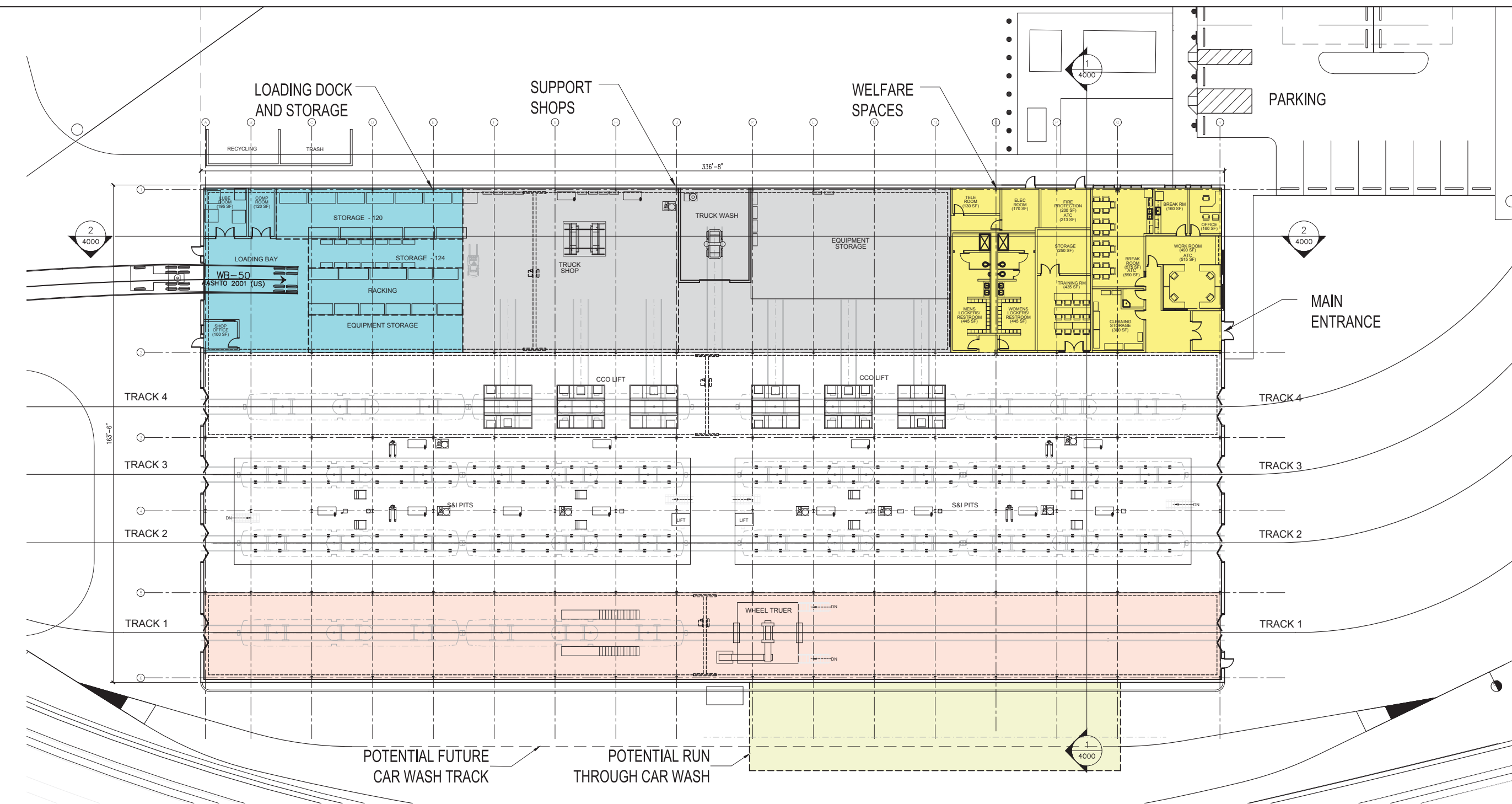
NOT FOR CONSTRUCTION

GLX	massDOT Massachusetts Department of Transportation				
0	09/28/2017	TECHNICAL PROPOSAL			
ISSUE	DATE	DESCRIPTION	BY	CHKD	APP

GLP Green Line Partners
 Lane • Si • Judlau • LMH-CMC JV

WSP

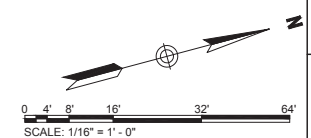
SCALE: AS NOTED	DRAWN BY: SMD	DESIGN BY: SMD	CHECK BY: CD	PLAN NO.	ISSUE
DATE: 28SEPT2017				SHEET: VMF-C-0003	



1 FLOOR PLAN
SCALE: 1/16" = 1' - 0"

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
GREEN LINE EXTENSION DESIGN-BUILD PROJECT
MBTA CONTRACT NO. E22CN07
SOMERVILLE/MEDFORD, MASSACHUSETTS

**VEHICLE MAINTENANCE FACILITY
FLOOR PLAN**

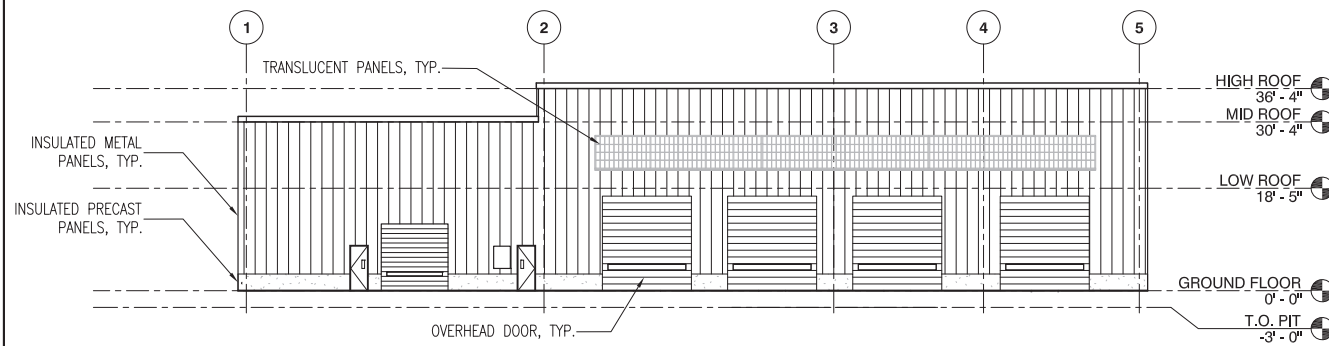


NOT FOR
CONSTRUCTION

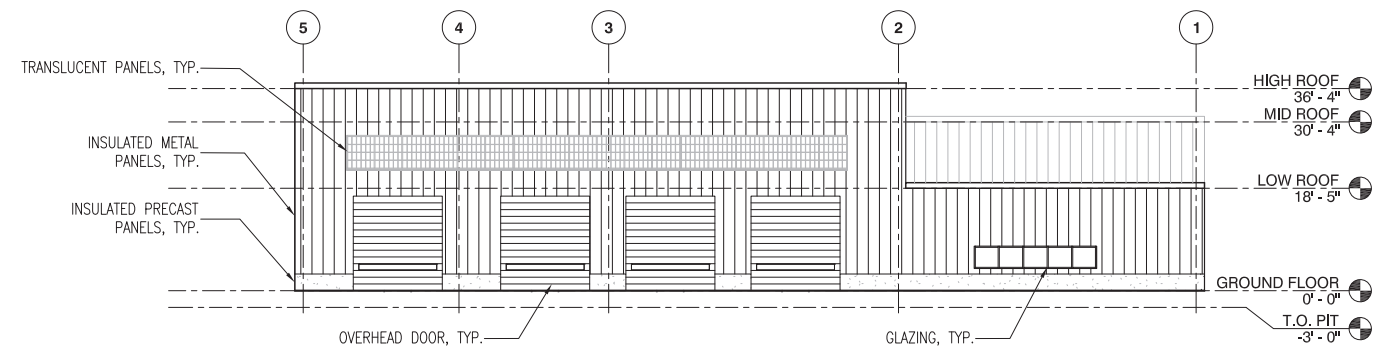


ISSUE	DATE	DESCRIPTION	BY	CHKD	APP.
0	09/28/2017	TECHNICAL PROPOSAL			

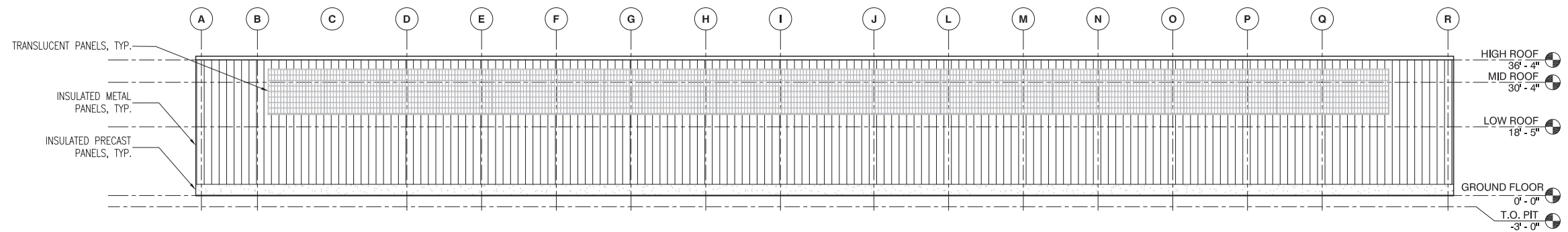
SCALE:	DRAWN BY:	DESIGN BY:	CHECK BY:	PLAN NO.:	ISSUE
DATE:				SHEET: MAF-A-2020	0



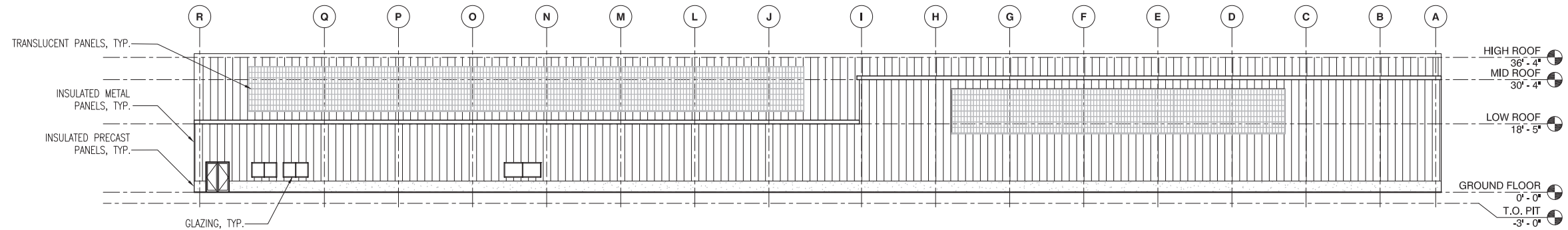
1 SOUTH ELEVATION
SCALE: 1/16" = 1' - 0"



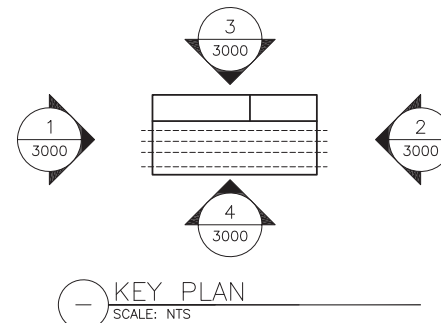
2 NORTH ELEVATION
SCALE: 1/16" = 1' - 0"



3 EAST ELEVATION
SCALE: 1/16" = 1' - 0"



4 WEST ELEVATION
SCALE: 1/16" = 1' - 0"



KEY PLAN
SCALE: NTS

0 4' 8' 16' 32' 64'
SCALE: 1/16" = 1' - 0"

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
GREEN LINE EXTENSION DESIGN-BUILD PROJECT
MBTA CONTRACT NO. E22CN07
SOMERVILLE/MEDFORD, MASSACHUSETTS

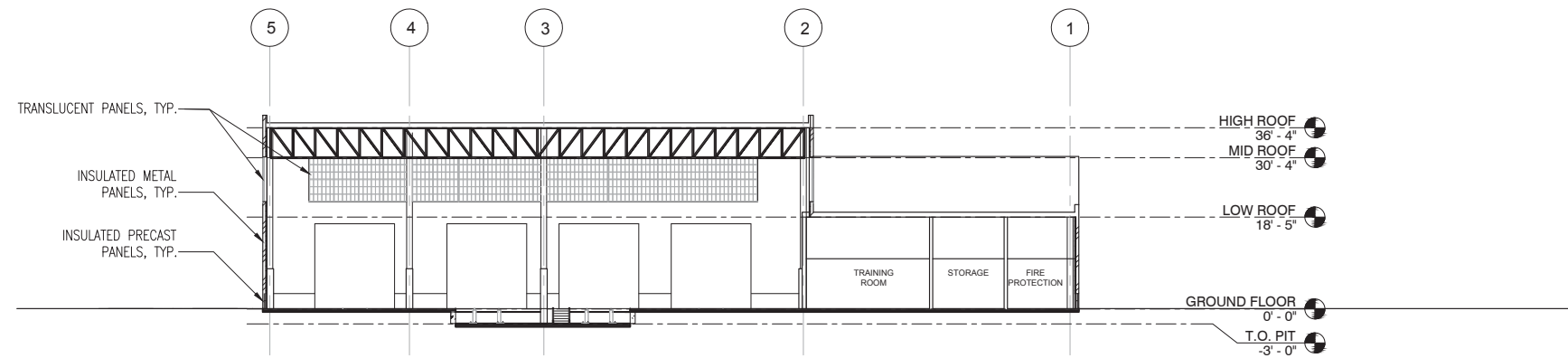
VEHICLE MAINTENANCE FACILITY
ELEVATIONS

NOT FOR
CONSTRUCTION

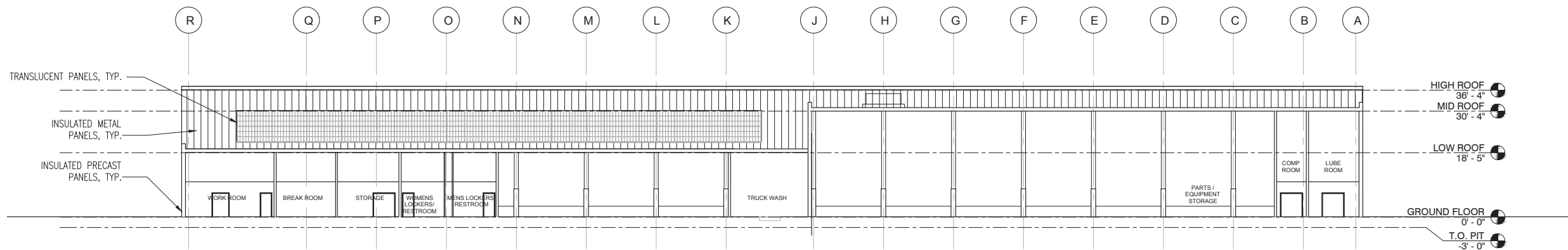


ISSUE	DATE	DESCRIPTION	BY	CHK'D	APP.
0	09/28/2017	TECHNICAL PROPOSAL			

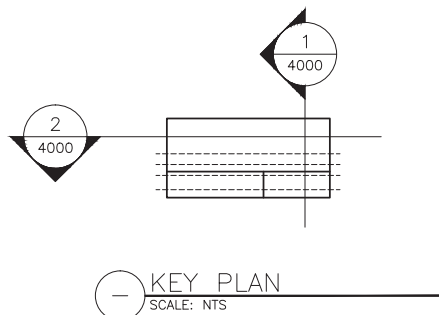
SCALE:	DRAWN BY:	DESIGN BY:	CHECK BY:	PLAN NO.:	ISSUE
DATE:				SHEET: MAF-A-3000	0



1 LONGITUDINAL SECTION
SCALE: 1/16" = 1' - 0"



2 TRANSVERSE SECTION
SCALE: 1/16" = 1' - 0"



KEY PLAN
SCALE: NTS

0 4' 8' 16' 32' 64'
SCALE: 1/16" = 1' - 0"

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
GREEN LINE EXTENSION DESIGN-BUILD PROJECT
MBTA CONTRACT NO. E22CN07
SOMERVILLE/MEDFORD, MASSACHUSETTS

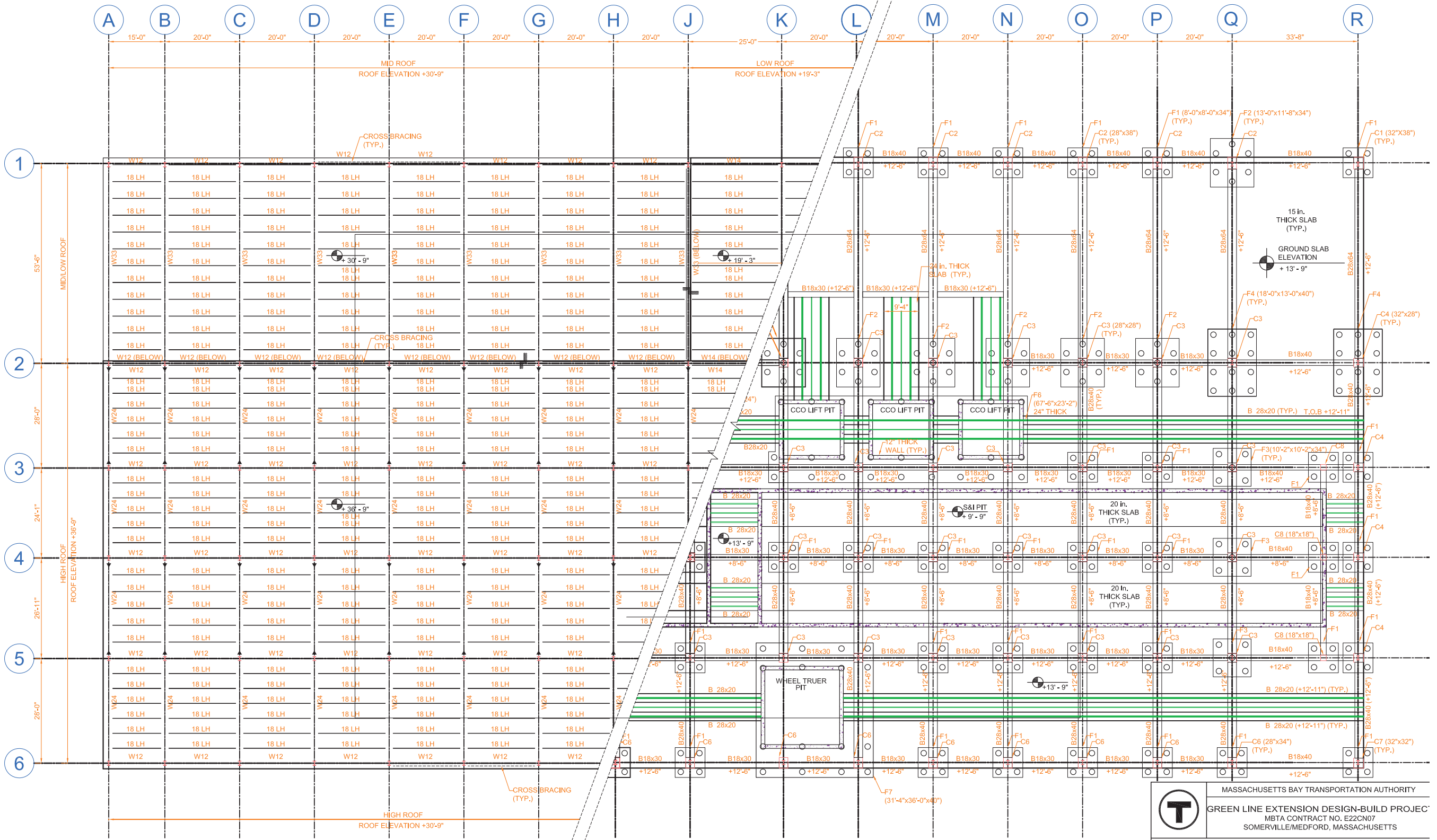
VEHICLE MAINTENANCE FACILITY
SECTIONS



NOT FOR
CONSTRUCTION

0	09/28/2017	TECHNICAL PROPOSAL			
ISSUE	DATE	DESCRIPTION	BY	CHKD	APP.

SCALE:	DRAWN BY	DESIGN BY	CHECK BY	PLAN NO.	ISSUE
DATE:				SHEET: MAF-A-4000	0



1 ROOF FRAMING PART PLAN
N.T.S.

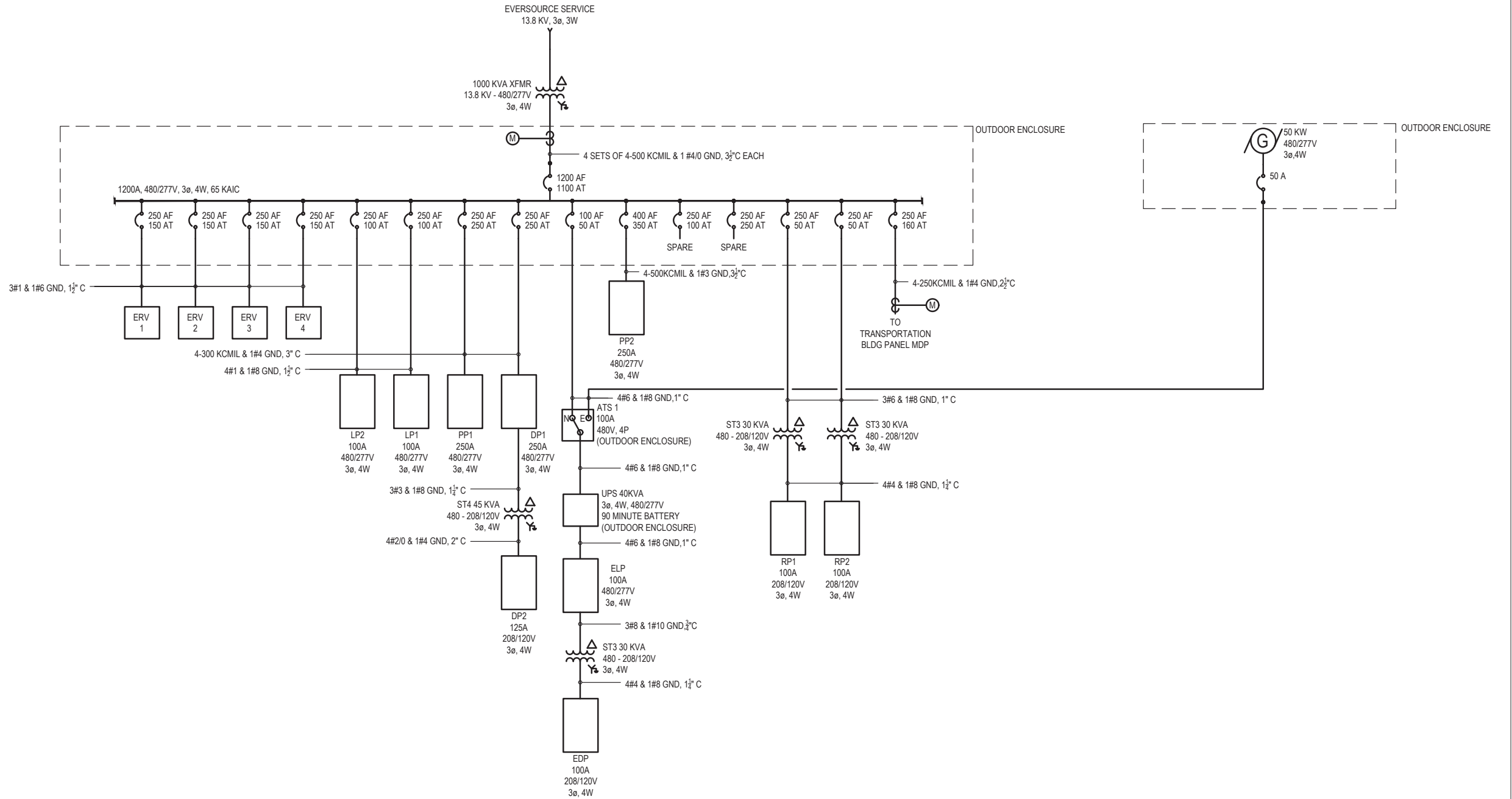
2 FOUNDATIONS PART PLAN
N.T.S.

T MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
GREEN LINE EXTENSION DESIGN-BUILD PROJECT
MBTA CONTRACT NO. E22CN07
SOMERVILLE/MEDFORD, MASSACHUSETTS

**VEHICLE MAINTENANCE FACILITY
FOUNDATION AND ROOF FRAMING PLAN**

NOT FOR CONSTRUCTION

0	09/28/2017	TECHNICAL PROPOSAL					
ISSUE	DATE	DESCRIPTION	BY	CHKD	APP.	SCALE:	DATE:
						DRAWN BY:	DESIGN BY:
						CHECK BY:	PLAN NO.:
							SHEET: VMF-S-4010
							ISSUE: 0



SHEET NOTES:
 1. THIS IS A NEW DRAWING DEVELOPED FOR THIS TECHNICAL PROPOSAL RESPONSE.

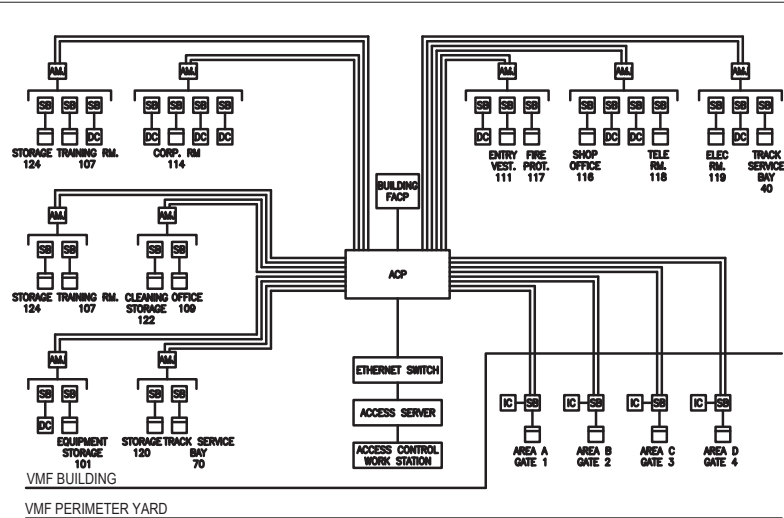
1 ELECTRICAL SINGLE-LINE DIAGRAM
 SCALE: NTS

PLOTTED: 09/22/17 11:37AM BY: MACUMBER
 DRAWING: C:\BMS\WSP-PB-US-FW-02\WSP_KEN\MACUMBER\DESIGN\4\VMF-E-2001.DWG [2001] 09/22/17 8:01AM

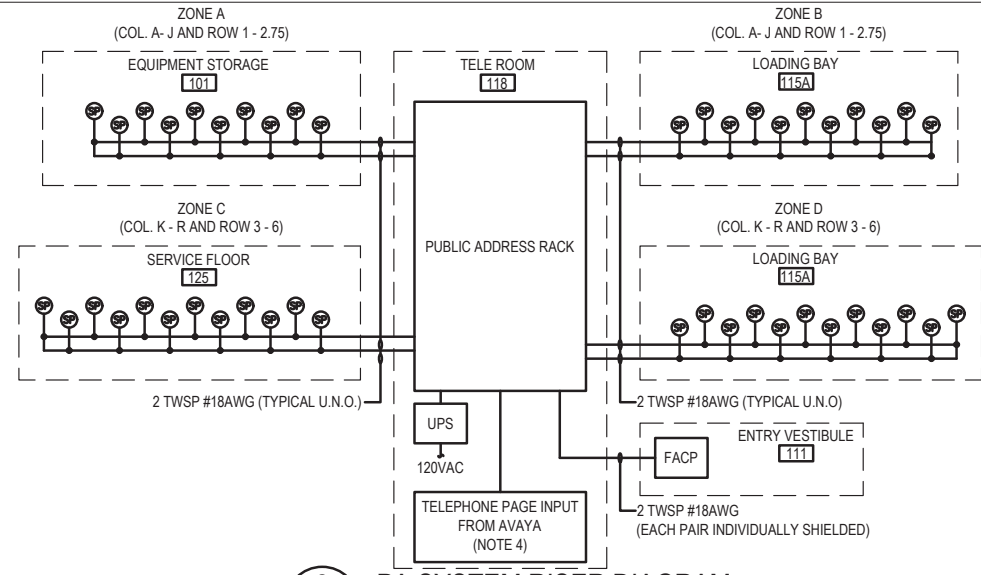
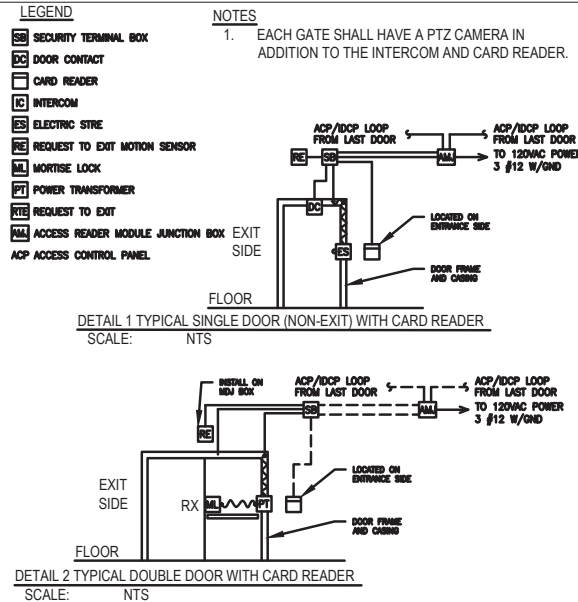
T MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
 GREEN LINE EXTENSION DESIGN-BUILD PROJECT
 MBTA CONTRACT NO. E22CN07
 SOMERVILLE/MEDFORD, MASSACHUSETTS

PROPOSED VMF ELECTRICAL SINGLE LINE DIAGRAM

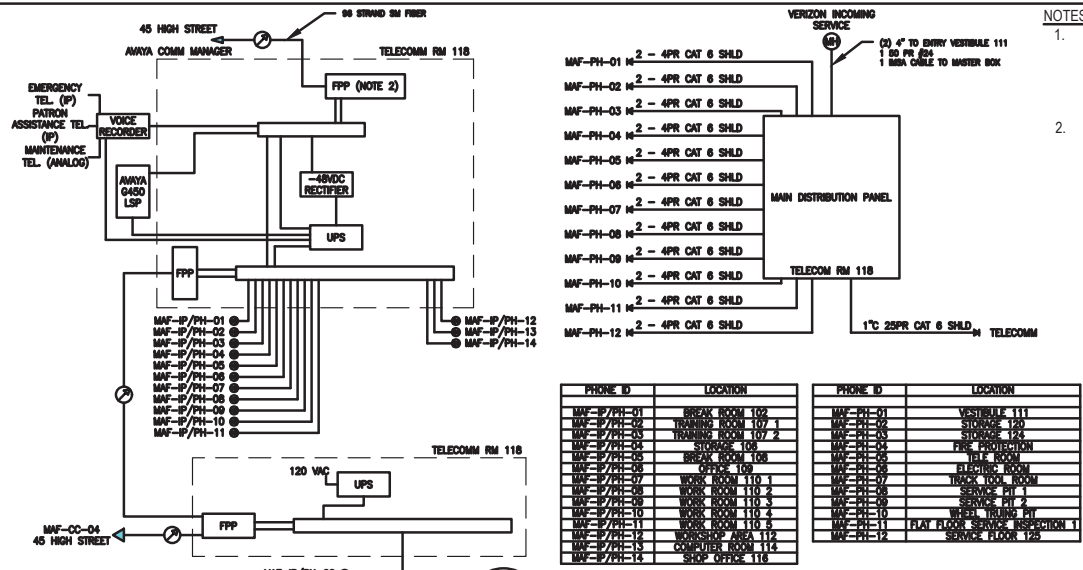
NOT FOR CONSTRUCTION	GLP	massDOT Massachusetts Department of Transportation	GLP Green Line Partners Lane • Si • Judlau • LMH-CMC JV	WSP
	0	09/28/2017	TECHNICAL PROPOSAL	
SCALE: AS NOTED	DRAWN BY: ERP	DESIGN BY: JT	CHECK BY: JLW	PLAN NO.
DATE: 28SEPT2017	ISSUE			SHEET: VMF-E-2001



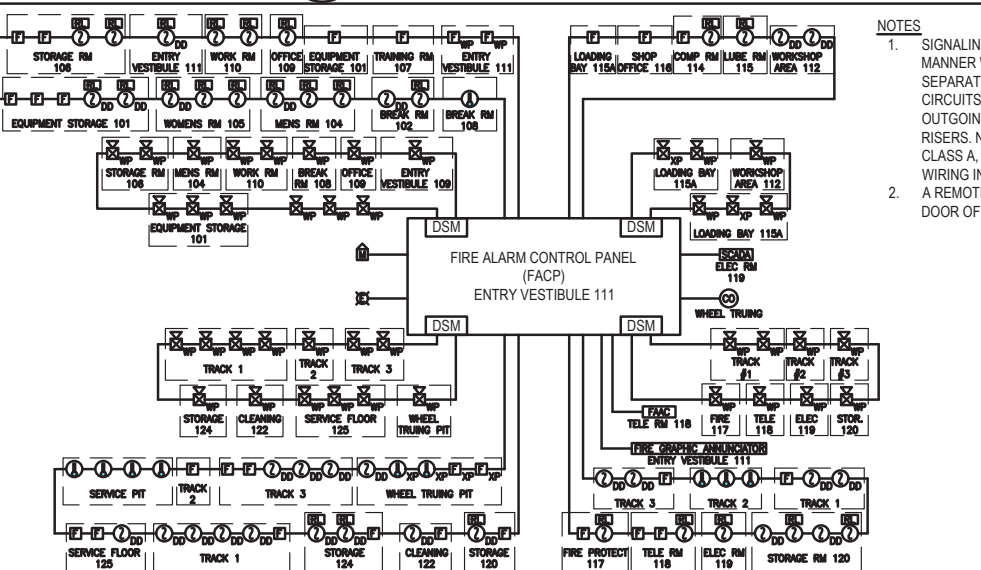
1 SECURITY RISER DIAGRAM
SCALE: NTS



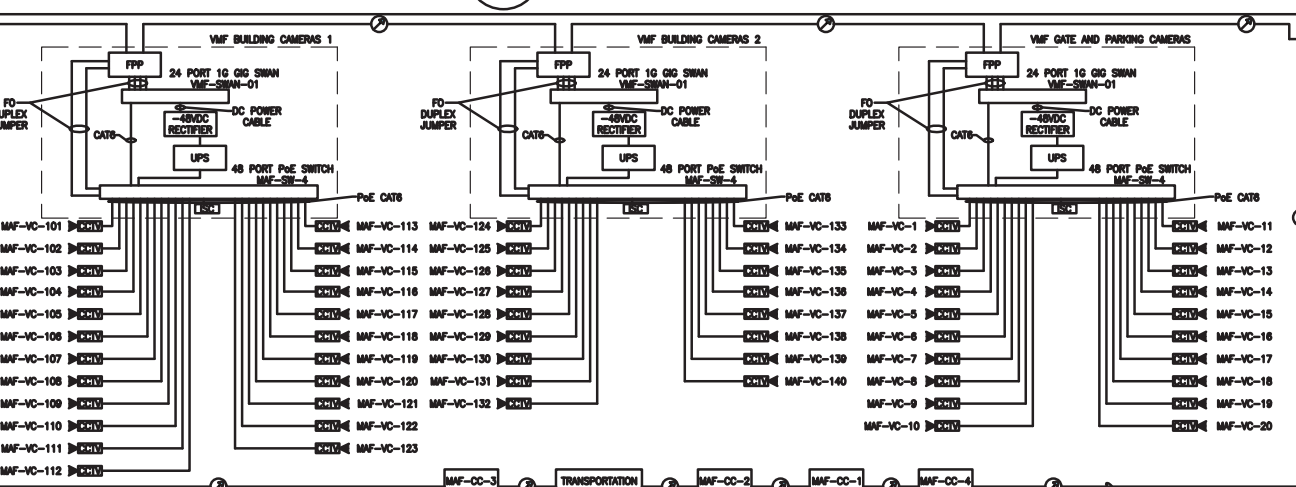
2 PA SYSTEM RISER DIAGRAM
SCALE: NTS



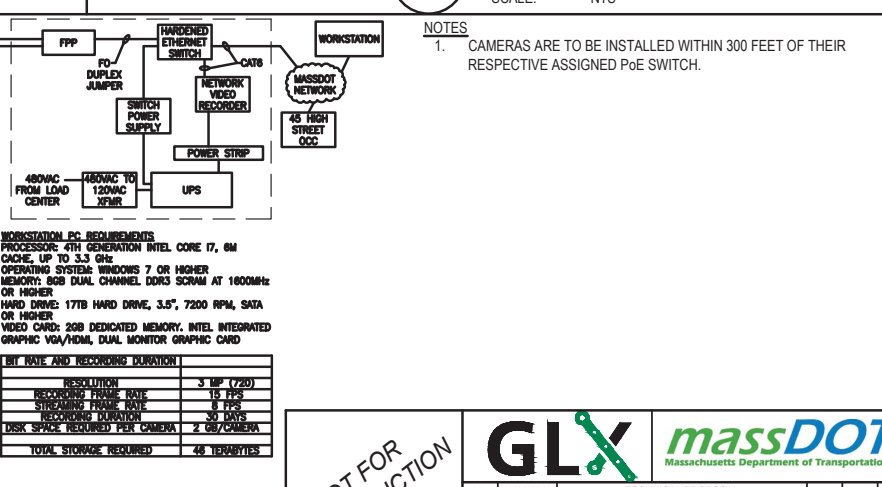
3 TELEPHONE RISER DIAGRAM
SCALE: NTS



4 FIRE ALARM RISER DIAGRAM
SCALE: NTS



5 CCTV RISER DIAGRAM
SCALE: NTS



SHEET NOTES:
1. THIS IS A NEW DRAWING DEVELOPED FOR THIS TECHNICAL PROPOSAL RESPONSE.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
GREEN LINE EXTENSION DESIGN-BUILD PROJECT
MBTA CONTRACT NO. E22CN07
SOMERVILLE/MEDFORD, MASSACHUSETTS

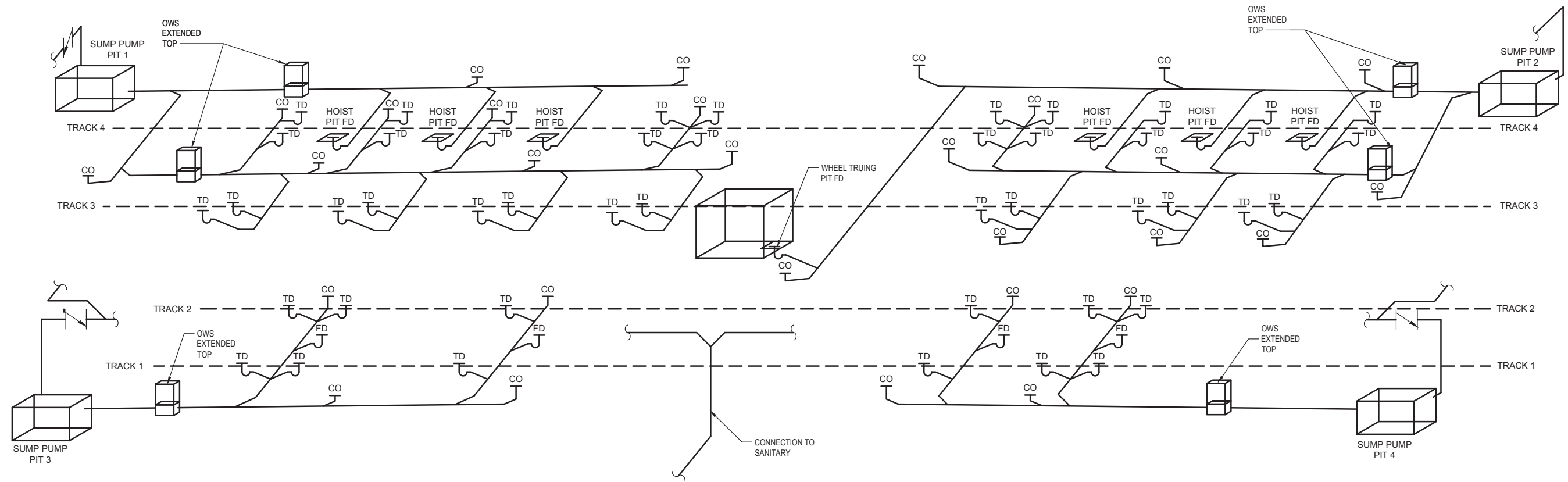
PROPOSED VMF SPECIAL SYSTEMS RISER



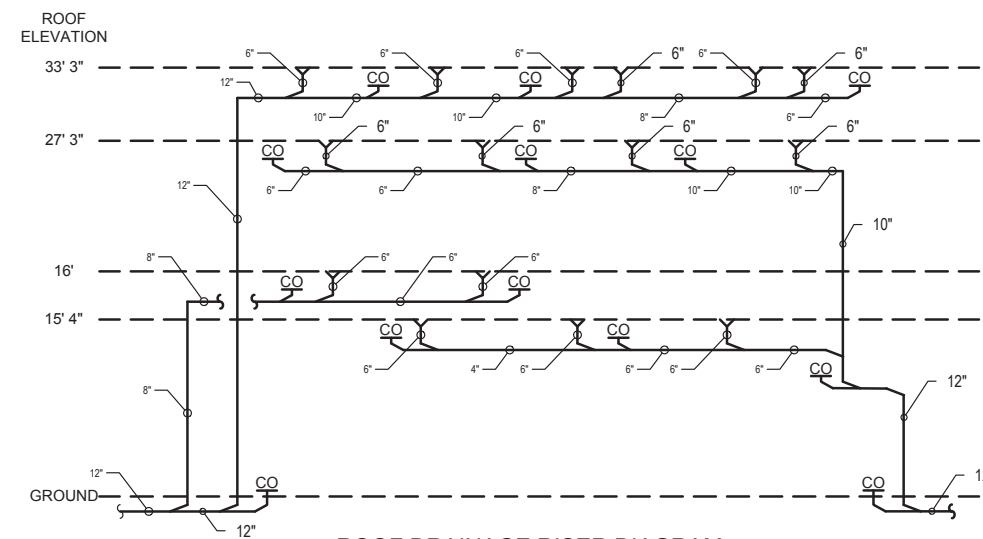
0	09/28/2017	TECHNICAL PROPOSAL				
ISSUE	DATE	DESCRIPTION	BY	CHKD	APP.	

SCALE: NONE	DRAWN BY: JT	DESIGN BY: ERP	CHECK BY: JLW	PLAN NO.	ISSUE
DATE: 28SEPT2017				SHEET: VMF-E-2002	-

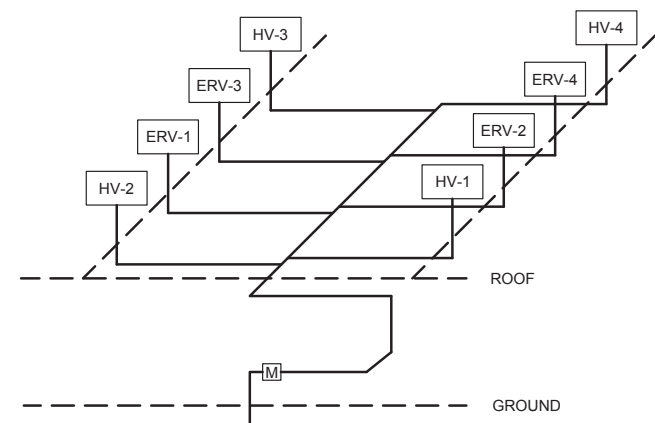
PLOTTED: 09/22/17 11:36AM BY: MACUMBER
 DRAWING: C:\BAS\WSP-FB-US-PM-C2\WSP_KEN\MACUMBER\DIS05674\VMF-E-2002.DWG [2002] 09/22/17 7:55AM



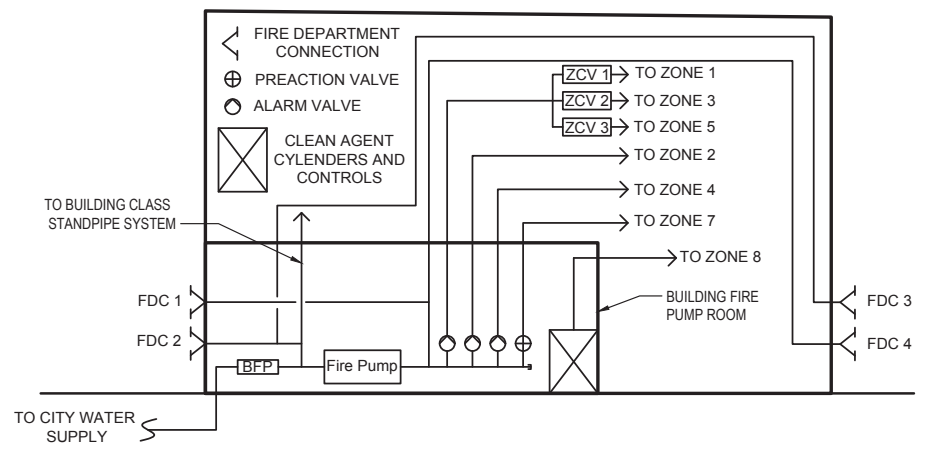
DRAINAGE RISER DIAGRAM
VENT PIPING NOT SHOWN



ROOF DRAINAGE RISER DIAGRAM



GAS RISER DIAGRAM



VMF FIRE PROTECTION SYSTEMS SCHEMATIC

SHEET NOTES:
1. THIS IS A NEW DRAWING DEVELOPED FOR THIS TECHNICAL PROPOSAL RESPONSE.

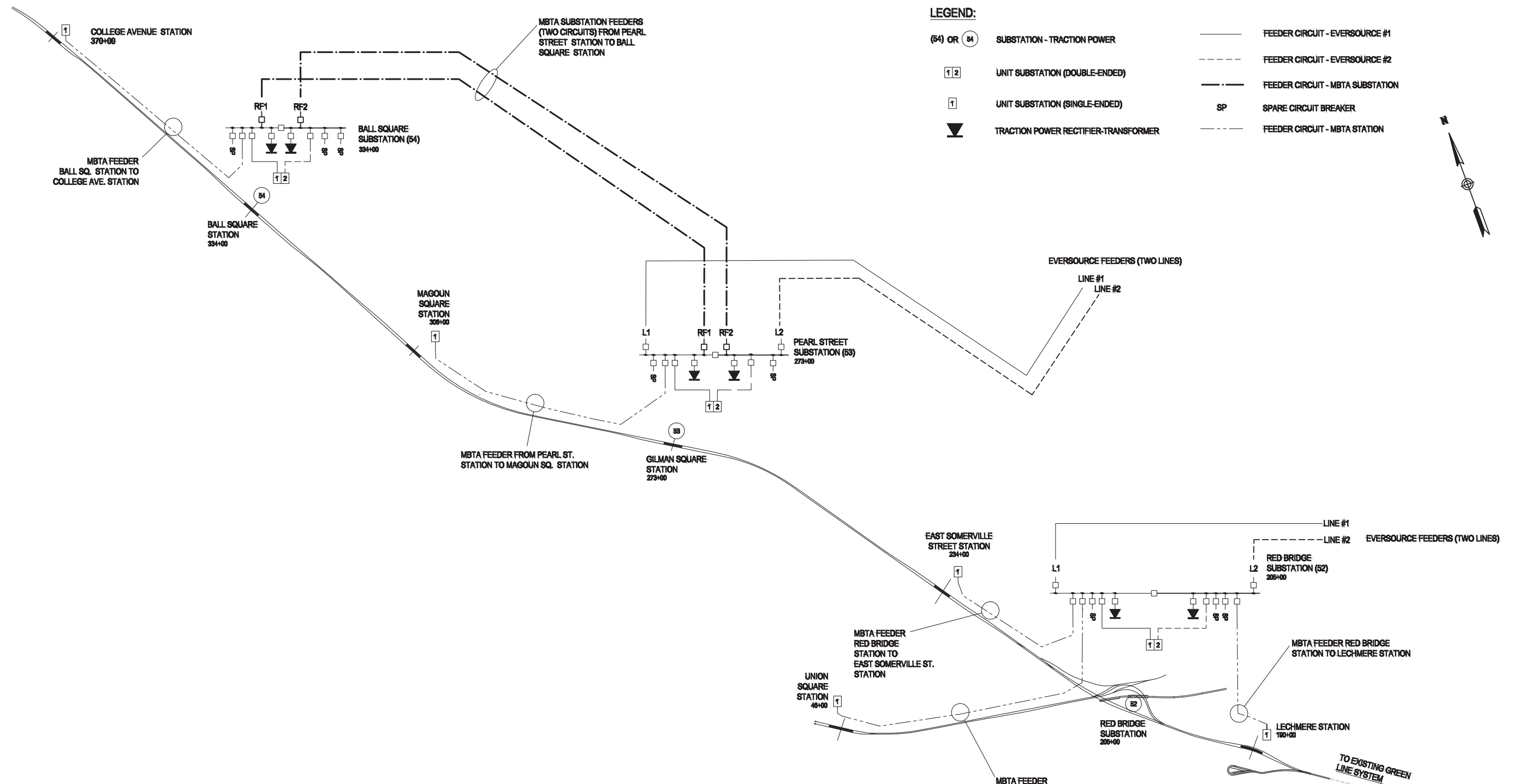
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
GREEN LINE EXTENSION DESIGN-BUILD PROJECT
MBTA CONTRACT NO. E22CN07
SOMERVILLE/MEDFORD, MASSACHUSETTS

PROPOSED VMF MECHANICAL RISER

NOT FOR CONSTRUCTION						
	0	09/28/2017	TECHNICAL PROPOSAL			
	ISSUE	DATE	DESCRIPTION	BY		CHKD APP.
SCALE: AS NOTED		DATE: 28SEPT2017	DRAWN BY: JB	DESIGN BY: AH	CHECK BY: DTD	
PLAN NO. SHEET: VMF-M-2003					ISSUE: -	

PLOTTED: 09/22/17 11:41 AM BY: MACMURRAY
 DRAWING: C:\BMS\WSP-FB-US-FW-CO-VSP_KEN\MACMURRAY\DESIGN\2003\09/22/17 8:28 AM

PLOTTED: 09/29/17 10:09AM BY: NEANEKE
 DRAWING: C:\BMS\WSP-PB-US-PL-02\WSP-EMERY\EVERSOURCE\TP-0033.DWG [SYS-TP-0033] 09/29/17 9:39AM



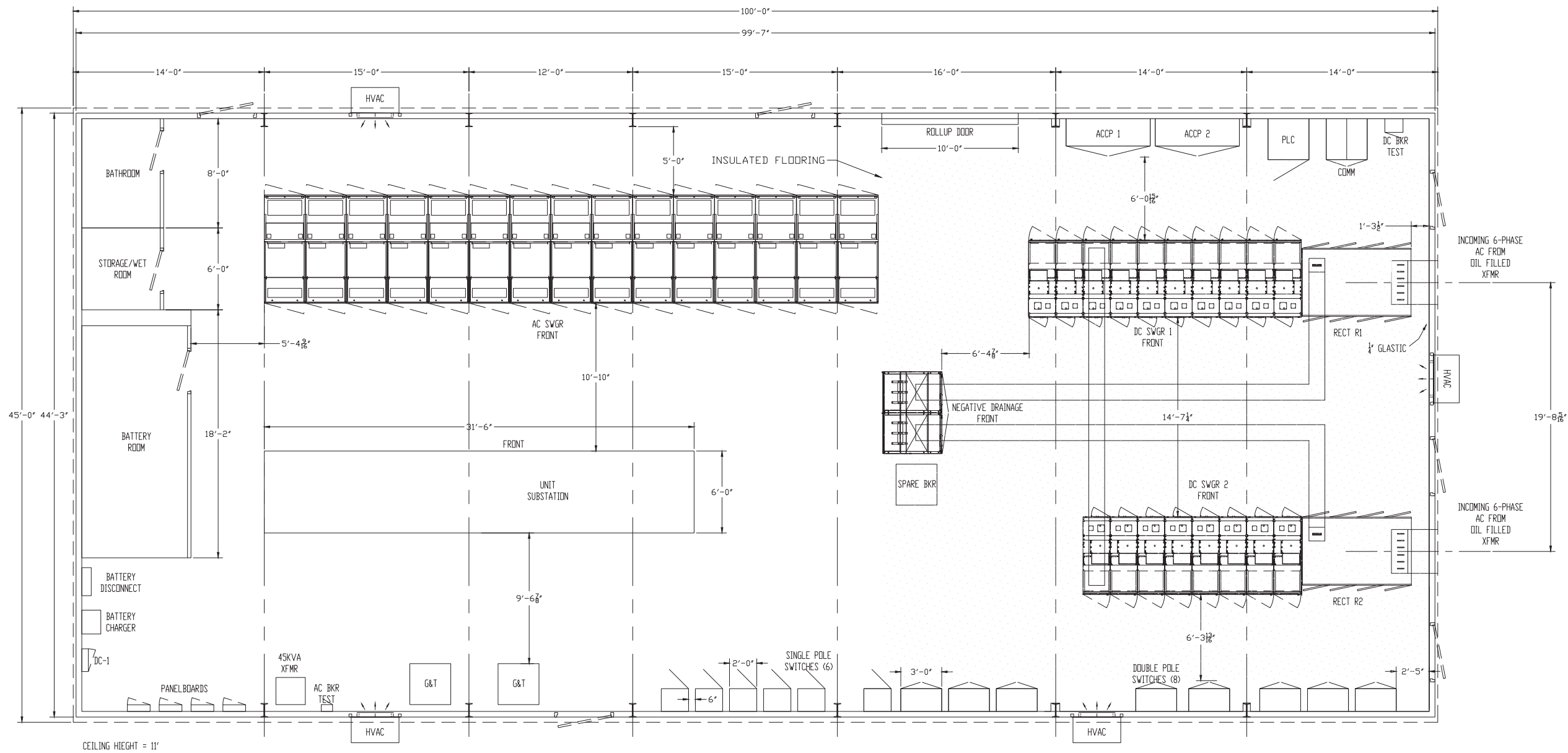
- GENERAL NOTES:**
- ALL 13.8 KV CABLES ARE TO BE EPR TYPE. PILC-TYPE CABLES ARE NOT TO BE USED UNLESS AGREED WITH THE PROJECT.
 - DESIGN BUILDER TO BE RESPONSIBLE FOR PULLING CABLES FROM EVERSOURCE MANHOLES TO THE SUBSTATIONS AT THE FOLLOWING SITES: RED BRIDGE, PEARL ST.
 - THE EVERSOURCE UTILITY FEEDERS TO PEARL ST. AND RED BRIDGE TRACTION POWER SUBSTATIONS ARE INDEPENDENT CIRCUITS.
 - RING FEEDER BREAKER CANNOT BE CLOSED WHEN BOTH LINE AND LOAD SIDES OF THE CIRCUIT BREAKER ARE ENERGIZED.
 - ALL STATIONING PROVIDED IN THIS DRAWING IS APPROXIMATE.

TRACTION POWER
13.8 KV AC FEEDER SCHEMATIC
 SCALE: NO SCALE

	MASSACHUSETTS BAY TRANSPORTATION AUTHORITY GREEN LINE EXTENSION DESIGN-BUILD PROJECT MBTA CONTRACT NO. E22CN07 SOMERVILLE/MEDFORD, MASSACHUSETTS	
	TRACTION POWER 13.8 KV AC FEEDER SCHEMATIC	
		SCALE: AS NOTED DRAWN BY: RU DESIGN BY: RU CHECK BY: RU DATE: 28SEPT2017
		PLAN NO. SHEET: SYS-TP-0033

NOT FOR CONSTRUCTION

0	09/28/2017	TECHNICAL PROPOSAL	
ISSUE	DATE	DESCRIPTION	BY [CHKD] APP.



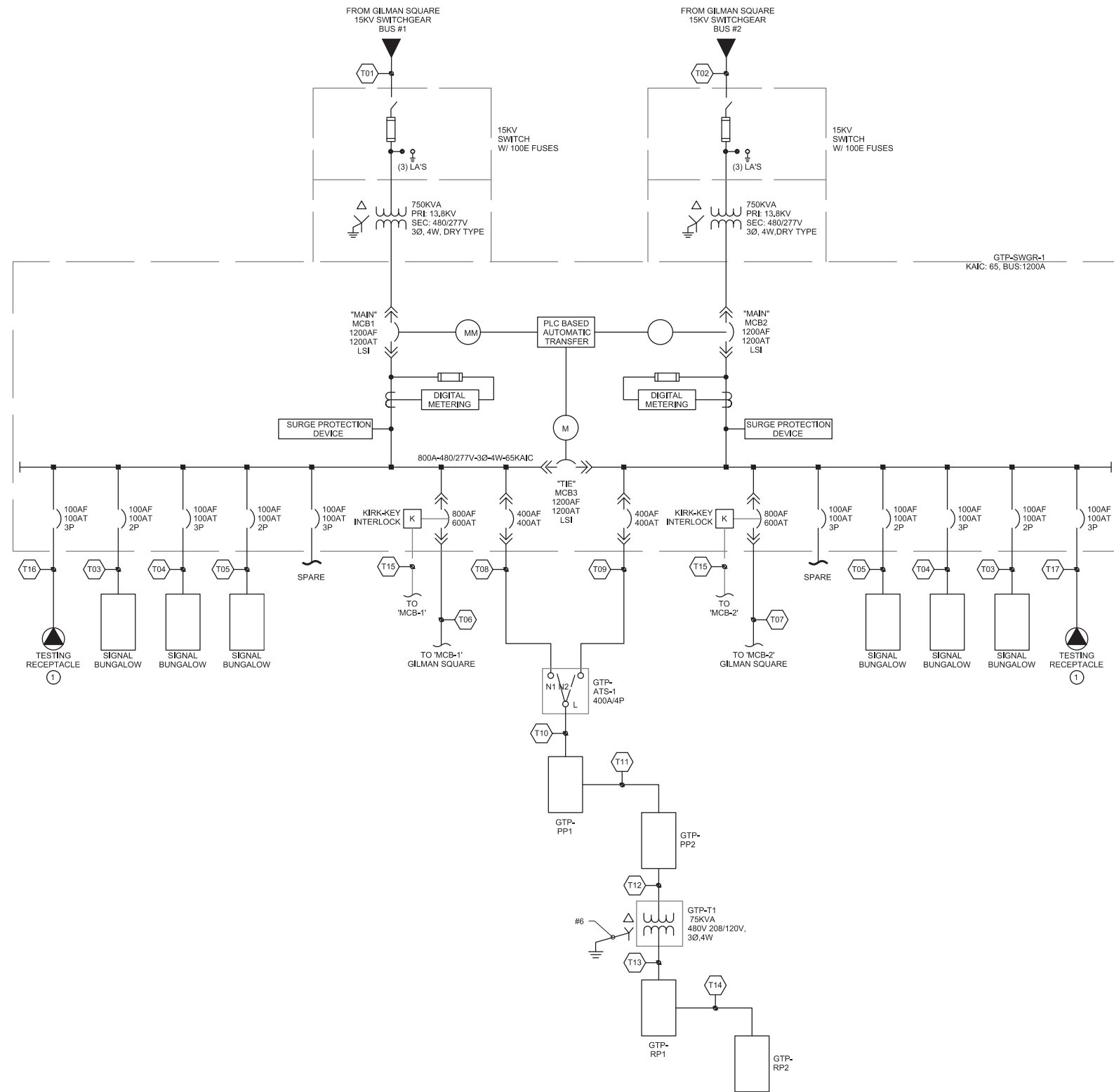
FROM POWELL
DWG. No.2238120101001

T MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
GREEN LINE EXTENSION DESIGN-BUILD PROJECT
MBTA CONTRACT NO. E22CN07
SOMERVILLE/MEDFORD, MASSACHUSETTS

BALL SQUARE SUBSTATION

NOT FOR CONSTRUCTION	GLX	massDOT Massachusetts Department of Transportation	GLP Green Line Partners Lane • SI • Judlau • LMH-CMC JV	WSP
	0 09/28/2017 TECHNICAL PROPOSAL			
	SCALE: AS NOTED	DRAWN BY: RL	DESIGN BY: RL	CHECK BY:
	DATE: 28SEPT2017	DATE:	DATE:	DATE:
	ISSUE	DATE	DESCRIPTION	BY
	DATE	DESCRIPTION	BY	CHKD
	DATE	DESCRIPTION	BY	APP.

PLOTTED: 09/28/17 2:13PM BY: MEASFC
 DRAWING: C:\SMS\WSP-FB-US-PW-02\WSP-EMERY\WEAVER\JMS07192\GTP-TP-8000.DWG [GTP-TP-8000] 09/28/17 1:48PM



1 SINGLE LINE DIAGRAM TRACTION POWER SUBSTATION
NOT TO SCALE

PLOTTED: 09/29/17 10:09AM BY: WEINER
 DRAWING: C:\BMS\WSP-PB-US-FW-03\WSP-EMERY\WEAVER\MS068B7\GTP-TP-8001.DWG [GTP-TP-8001] 08/29/17 8:39AM

 MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
 GREEN LINE EXTENSION DESIGN-BUILD PROJECT
 MBTA CONTRACT NO. E22CN07
 SOMERVILLE/MEDFORD, MASSACHUSETTS

PEARL STREET TPSS
SINGLE LINE DIAGRAM

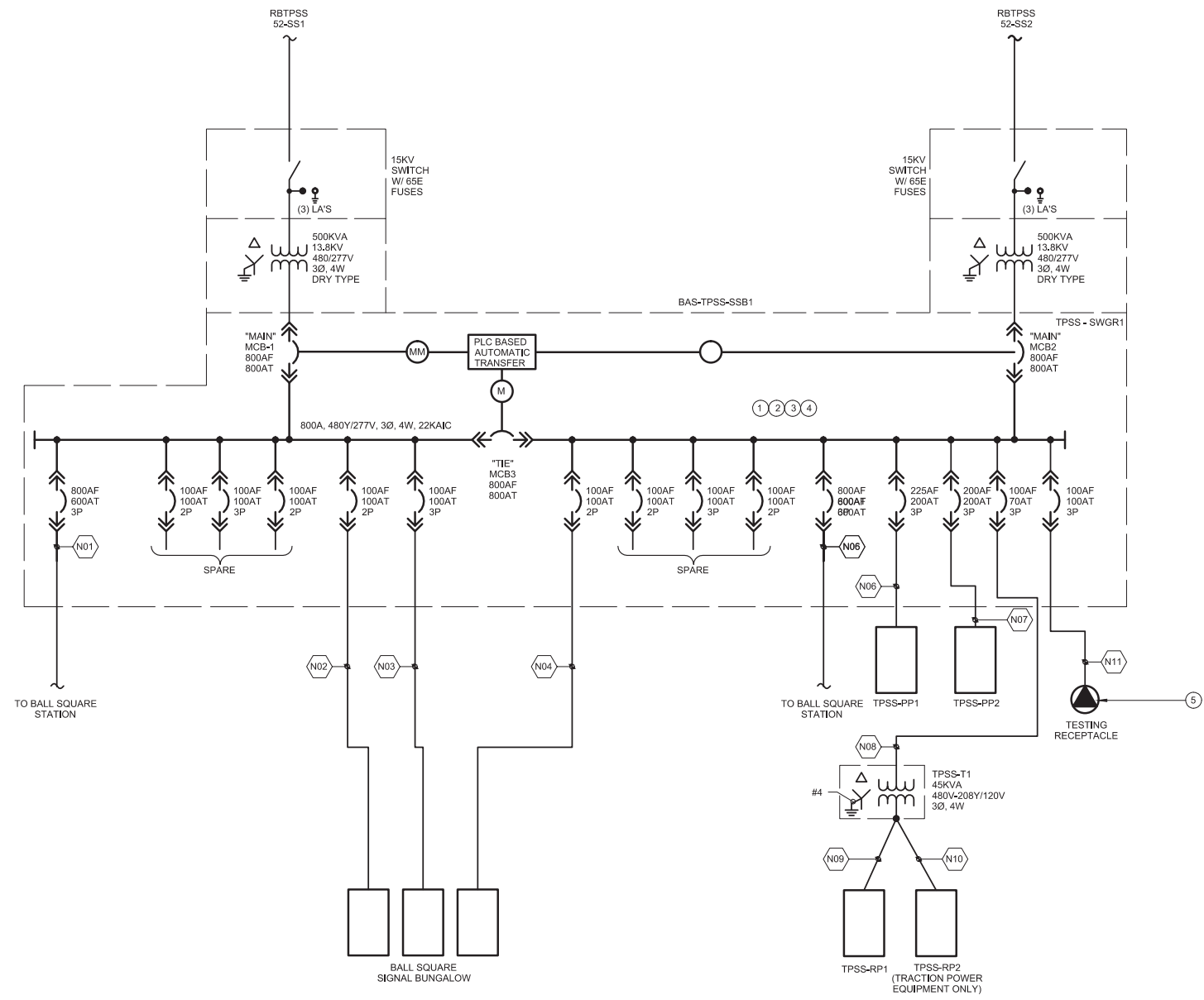


NOT FOR
CONSTRUCTION




0	09/28/2017	TECHNICAL PROPOSAL			
ISSUE	DATE	DESCRIPTION	BY	CHKD	APP.

SCALE: AS NOTED	DRAWN BY: RU	DESIGN BY: RU	CHECK BY:	PLAN NO.	ISSUE
DATE: 28SEPT2017				SHEET: GTP-TP-8001	-





1 ELECTRICAL - SINGLE LINE DIAGRAM
NO SCALE

PLOTTED: 09/28/17 10:15AM BY: WEAVERE
 DRAWING: C:\BMS\WSP-PB-US-PW-03\WSP-EMERY\WEAVER\JMS068B7\BTP-TP-8001.DWG [BTP-TP-8001] 06/29/17 9:39AM

 MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
 GREEN LINE EXTENSION DESIGN-BUILD PROJECT
 MBTA CONTRACT NO. E22CN07
 SOMERVILLE/MEDFORD, MASSACHUSETTS

**BALL SQUARE TPSS
SINGLE LINE DIAGRAM**

NOT FOR
CONSTRUCTION

					
0	09/28/2017	TECHNICAL PROPOSAL			
ISSUE	DATE	DESCRIPTION	BY	CHKD	APP.

 Green Line Partners
 Lane • SI • Judlau • LMH-CMC JV



SCALE: AS NOTED	DRAWN BY: RU	DESIGN BY: RU	CHECK BY:	PLAN NO.	ISSUE
DATE: 28SEPT2017				SHEET: BTP-TP-8001	-

