^{Sound Ransit} **CENTRAL PUGET SOUND REGIONAL TRANSIT AUTHORITY**

CIVIL / TRACK / STRUCTURAL GUIDANCE DRAWINGS

GUIDANCE DRAWINGS ARE FOR USE BY DESIGN TEAMS AS REPRESENTATIONS OF THE ARRANGEMENT OR CONFIGURATION OF SPECIFIC COMPONENTS OR THE WAY ACCEPTABLE SOLUTIONS TO CERTAIN DESIGN CHALLENGES HAVE BEEN ADDRESSED. THE GUIDANCE DRAWINGS ARE STARTING POINT OF DESIGN SOLUTIONS AND ARE INTENDED TO BE MODIFIED FOR APPLICATION TO PROJECT CONDITIONS.

THE DESIGNER OF RECORD SHALL REVIEW GUIDANCE DRAWINGS IN CONJUNCTION WITH OTHER CONTRACT DOCUMENTS AND SELECT APPLICABLE GUIDANCE DRAWINGS TO DEVELOP, STAMP, SIGN AND FINALIZE AS PROJECT CONTRACT DOCUMENTS.

SOUND TRANSIT MAKES THE GUIDANCE DRAWINGS AVAILABLE ON AN AS-IS BASIS AND THEY SHALL NOT BE DEEMED TO BE "DESIGN FURNISHED" BY SOUND TRANSIT.



MARCH 2024

CIVIL / TRACK / STRUCTURAL GUIDANCE DRAWINGS APPLICABILITY OF CURRENT VERSION SUPERSEDES AUGUST 2019 VERSION FOR PROJECTS THAT ARE BASELINED AFTER MARCH 29, 2024

RAWING No.:

GUI-GZT001

REV:

4



DISCLAIMER FOR Design and Engineering Design Standards Documents

Sound Transit makes these documents available on an "as is" basis. By accepting receipt of the documents, the receiver agrees to the following:

- The documents are provided for information only;
- The receiver will not utilize the documents in any way that violates or infringes on Sound Transit's intellectual property rights in such documents;
- The provided documents should not be construed to represent formal design guidance and/or direction for any project;
- Sound Transit makes no representation or warranty that the provided data is complete, appropriate, or fit for any particular purpose, stated or otherwise;
- All documents provided by Sound Transit, including any revisions, shall remain the personal and intellectual property of Sound Transit; and
- To indemnify, defend, and hold harmless Sound Transit, its consultants, and agent(s) from any and all damages and claims arising from the receiver's use of these documents.

APPLICABILITY FOR Design and Engineering Design Standards Documents

Project teams shall refer to their executed project contracts for applicable document versions/revisions.

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	REV			
				GENERAL
GUI-GZT001	4	COVER	SHEET	
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	1	PERMAN	IENT EASEMENTS 1 OF 6	
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GUI-REX103	1	PERMAN	IENT EASEMENTS 3 OF 6	
GUI-REX104	1	PERMAN	IENT EASEMENTS 4 OF 6	
GUI-REX105	1		IENT EASEMENTS 5 OF 6	
GUI-REX100	1	TEMPOF	RARY EASEMENTS 0 OF 0	
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GUI-KZN001	2	ABBREV	IATIONS, SYMBOLS & GENERAL NOTES	
GUI-KAX060	2	BALLAS	TED DOUBLE MAIN TRACK TYPICAL SECTIONS	
GUI-KAX061	2	TYPICAL	GUIDEWAY SECTIONS	
JUI-KAX065	2	BALLAS	TED TRACK TYPICAL SECTION DETAILS	
JUI-KAX200	2	EMBEDD	DED TRACK CONSTRUCTION DOUBLE MAINLINE TRAC	KS TYPICAL SECTIONS (115RE)
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UI-KAD210	2		DED TRACK CONSTRUCTION TYPICAL TRACK SECTION	VEMERGENCY VEHICLES & PEDESTRIA
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UI-KAD230	2	EMBEDD	DED TRACK CONSTRUCTION RAIL BOOT GENERAL DE	TAILS (115RE)
UI-KAD235	2	EMBEDD	DED TRACK CONSTRUCTION TYPICAL NON-INSULATED	D TRACK RAIL FIXATION DETAIL
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UI-KAD240	2		AIL EMBEDDED TRACK CONSTRUCTION TRACK SLAB	
UI-KAD245	2		ED TRACK CONSTRUCTION PLASTIC BEAM AND ANC	TRACK DRAIN (115RE)
UI-KAD427	2 1	TRANSI	FION SLAB HIGH RESILIENT FASTENER DIRECT FIXATI	ON TRACK TO STANDARD DIRECT FIXA
• • • •	1			CIVIL
	0	NOTES	R SYMBOLS	-
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GUI-CZN001	۷			
GUI-CZN001	1	NOTES	SYMBOLS	UTILITY
GUI-CZN001 GUI-UZN001 GUI-UCD101	1	NOTES &	& SYMBOLS UNDERGROUND UTILITY CONFIGURATION	
GUI-UZN001 GUI-UCD101	1 0	NOTES &	A SYMBOLS UNDERGROUND UTILITY CONFIGURATION	
GUI-CZN001 GUI-UZN001 GUI-UCD101 2/2024 -		NOTES & TYPICAL	A SYMBOLS UNDERGROUND UTILITY CONFIGURATION	DESIGNED BY:
GUI-CZN001 GUI-UZN001 GUI-UCD101 		NOTES & TYPICAL	A SYMBOLS UNDERGROUND UTILITY CONFIGURATION	DESIGNED BY: DRAWN BY: CHECKED BY:

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DATE

DSN CHK APP REVISION

INDEX OF DRAWINGS

CAST CONCRETE PANEL
IAN CROSSINGS (115RF)
ATION TRACK

			LE	J	SCALE: NTS
			IE IS 1" LL SCA		FILENAME: GUI-GZI001
				SoundTransit	CONTRACT No.: RTA/LR -
SUBMITTED BY: -	DATE: -	REVIEWED BY:		DATE: -	DATE: 2/2024

SOUND TRANSIT
TRACKWORK

DRAWING No.:

GUI-GZI001

SHEET No.:

FACILITY ID:

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INDEX OF DRAWINGS

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			LINE IS 1" AT FULL SCALE	SoundTransit	SCALE: NTS FILENAME: GUI-REX101 CONTRACT No.: RTA/LR -	
SUBMITTED BY:	DATE:	REVIEWED BY:		DATE:	DATE:	
-	-	-		-	2/2024	

2' MIN. FOR DBB / GCCM PROJECTS 5' TO 8' MIN. FOR DB PROJECTS (BOTH SIDES)

- TREE AND VEGETATION TRIMMING (IF AND ONLY IF THERE ARE TREES AND VEGETATION IN THE AREA) (10' ON SIDES AND UNDER)

AROUND AERIAL GUIDEWAY AND COLUMNS. SEE GENERAL NOTES.

GENERAL NOTES:

- 1. THESE SECTIONS ARE PROVIDED AS A DIRECTION FOR ESTABLISHING MINIMUM RIGHT-OF-WAY LIMITS ONLY.
- 2. DIMENSIONS SHOWN ARE FOR GENERAL CONDITIONS AND SHALL BE MODIFIED WHERE ENGINEERING OR REAL ESTATE REQUIREMENTS DICTATE.
- 3. IN NO EVENT MAY GRANTOR CONSTRUCT PERMANENT STRUCTURES OR STORE FLAMMABLE, EXPLOSIVE, OR HAZARDOUS MATERIALS WITHIN THE EASEMENT AREA. IN THE EVENT GRANTEE DISCOVERS SUCH ITEMS IN THE EASEMENT AREA, GRANTEE MAY IMMEDIATELY REMOVE SUCH ITEMS AT GRANTOR'S EXPENSE. NO OBSTRUCTIONS OF ANY KIND WHATSOEVER, OTHER THAN THOSE IDENTIFIED ABOVE IN THIS SECTION 2 WILL BE ALLOWED WITHIN FIVE FEET OF THE AERIAL GUIDEWAY COLUMNS. GRANTOR MAY NOT USE THE EASEMENT AREA FOR ANY PURPOSE IN THE AREA ABOVE THE AERIAL GUIDEWAY OR THE AREA TEN FEET BELOW THE BOTTOM OF THE AERIAL GUIDEWAY GIRDERS AND TEN FEET BELOW THE TOP OF THE AERIAL GUIDEWAY COLUMN. VEHICLES CARRYING FLAMMABLE MATERIALS OTHER THAN WITHIN THE VEHICLE'S OWN FUEL TANK, MAY NOT PARK UNDER THE AERIAL GUIDEWAY. GRANTOR MAY OTHERWISE USE THE PROPERTY WITHIN THE EASEMENT AREA, SO LONG AS THE GRANTOR'S USE DOES NOT INTERFERE WITH GRANTEE'S USE OF THE EASEMENT AREA WITHOUT WRITTEN PERMISSION OF THE GRANTEE. REVIEW THE GUIDEWAY EASEMENT STANDARD TEMPLATE FOR ADDITIONAL INFORMATION.
- 4. GRANTOR PRIVATE PROPERTY OWNER OR AHJ.
- 5. GRANTEE SOUND TRANSIT

KEY NOTES:

- $\langle 1 \rangle$ OVERSIZE HAUL ROUTE MAY REQUIRE GREATER THAN 16'-6" DEPENDING ON THE AUTHORITY HAVING JURISDICTION.
- \langle 2 angle DESIGNER TO CONFIRM THAT FULL EXTENT OF ALL PILES AND PILE CAP MUST FALL WITHIN 2' OR GREATER OF THE TRANSIT WAY. ADJUST WIDTH OUT IF NECESSARY.

LEGEND:



GUIDEWAY EASEMENT (TRANSIT WAY / ST RIGHT-OF-WAY)

GRANTOR'S USE LIMITS



PERMANENT EASEMENT

ABBREVIATIONS:

DB:	DESIGN BUILD
DDB:	DESIGN BID BUILD
GCCM:	GENERAL CONTRACTOR CONSTRUCTION MANAGEMENT
AHJ:	AUTHORITY HAVING JURISDICTION.

SOUND TRANSIT **GUIDANCE DRAWINGS RIGHT OF WAY**

PERMANENT EASEMENTS 1 OF 6

RAWING No .:

GUI-REX101

FACILITY ID:

SHEET No .:



			LINE IS 1" AT FULL SCALE	SoundTransit	SCALE: NTS FILENAME: GUI-REX CONTRACT No.: RTA/LR -
SUBMITTED BY:	DATE:	REVIEWED BY:		DATE:	DATE:
-	-	-		-	2/2024

GENERAL NOTES:

- 1. THESE SECTIONS ARE PROVIDED AS A GUIDE FOR ESTABLISHING MINIMUM RIGHT-OF-WAY LIMITS ONLY.
- 2. DIMENSIONS SHOWN ARE FOR GENERAL CONDITIONS AND SHALL BE MODIFIED WHERE ENGINEERING OR REAL ESTATE REQUIREMENTS DICTATE.
- 3. WHEN UTILITIES OR OTHER APPURTENANCES EXTEND BELOW THE GUIDEWAY, ADDITIONAL GRANTOR'S USE PROHIBITIONS MAY BE REQUIRED. COORDINATE WITH ROW ENGINEER.

KEY NOTES:

- OVERSIZE HAUL ROUTE MAY REQUIRE GREATER / THAN 16.5'-0" DEPENDING ON THE AUTHORITY HAVING JURISDICTION.
- $\left< \frac{2}{2} \right>$ IN NO EVENT MAY GRANTOR CONSTRUCT PERMANENT STRUCTURES OR STORE FLAMMABLE, EXPLOSIVE, OR HAZARDOUS MATERIALS WITHIN THE EASEMENT AREA. IN THE EVENT GRANTEE DISCOVERS SUCH ITEMS IN THE EASEMENT AREA, GRANTEE MAY IMMEDIATELY REMOVE SUCH ITEMS AT GRANTOR'S EXPENSE. NO OBSTRUCTIONS OF ANY KIND WHATSOEVER, OTHER THAN THOSE **IDENTIFIED ABOVE IN THIS SECTION 2 WILL BE** ALLOWED WITHIN FIVE FEET OF THE AERIAL GUIDEWAY COLUMNS. GRANTOR MAY NOT USE THE EASEMENT AREA FOR ANY PURPOSE IN THE AREA ABOVE THE AERIAL GUIDEWAY, OR THE AREA FIVE FEET BELOW THE BOTTOM OF THE AERIAL GUIDEWAY. VEHICLES CARRYING FLAMMABLE MATERIALS OTHER THAN WITHIN THE VEHICLE'S OWN FUEL TANK, MAY NOT PARK UNDER THE AERIAL GUIDEWAY. GRANTOR MAY OTHERWISE USE THE PROPERTY WITHIN THE EASEMENT AREA, SO LONG AS THE GRANTOR'S USE DOES NOT INTERFERE WITH GRANTEE'S USE OF THE EASEMENT AREA WITHOUT WRITTEN PERMISSION OF THE GRANTEE.

LEGEND:



GUIDEWAY EASEMENT (TRANSIT WAY / ST RIGHT-OF-WAY)



GRANTOR'S USE LIMITS

PERMANENT EASEMENT

02	

SOUND TRANSIT **GUIDANCE DRAWINGS RIGHT OF WAY**

PERMANENT EASEMENTS 2 OF 6

RAWING No .:

GUI-REX102

FACILITY ID:

SHEET No .:



DATE

DSN CHK APP REVISION

			LINE IS 1" AT FULL SCALE	SoundTransit	SCALE: NTS FILENAME: GUI-RE: CONTRACT No.: RTA/LR -
SUBMITTED BY:	DATE:	REVIEWED BY:		DATE:	DATE:
-	-	-		-	2/2024

FILL SLOPE EASEMENT NTS



GENERAL NOTES:

- 1. THIS SECTION IS PROVIDED AS A GUIDE FOR ESTABLISHING MINIMUM RIGHT -OF-WAY LIMITS ONLY.
- 2. DIMENSIONS SHOWN ARE FOR GENERAL CONDITIONS AND SHALL BE MODIFIED WHERE ENGINEERING OR REAL ESTATE REQUIREMENTS DICTATE.

LEGEND:



PERMANENT EASEMENT



(103	

SOUND TRANSIT **GUIDANCE DRAWINGS RIGHT OF WAY**

PERMANENT EASEMENTS 3 OF 6

RAWING No.:

GUI-REX103

SHEET No.:

FACILITY ID:

REV:

1





(GUIDEWAY / COMMERCIAL) NTS

			LINE IS 1" AT FULL SCALE	SoundTransit	SCALE: NTS FILENAME: GUI-REX104 CONTRACT No.: RTA/LR -
SUBMITTED BY:	DATE:	REVIEWED BY:		DATE:	DATE:
-	-	-		-	2/2024

GENERAL NOTES:

- 1. THESE SECTIONS ARE PROVIDED AS A GUIDE FOR ESTABLISHING MINIMUM RIGHT-OF-WAY LIMITS ONLY.
- 2. DIMENSIONS SHOWN ARE FOR GENERAL CONDITIONS AND SHALL BE MODIFIED WHERE ENGINEERING OR REAL ESTATE REQUIREMENTS DICTATE.

KEY NOTES:

 $\langle 1 \rangle$ FOR DBB/ GCCM PROJECTS, ROW LIMIT SHALL START AT THE GREATER OF: • 2'-0" MINIMUM FROM FURTHEST EXPOSED POINT OF THE WALL 0'-6" MINIMUM BEYOND THE FURTHEST POINT OF THE WALL.

- FOR DB PROJECTS, ROW LIMIT SHALL START AT THE GREATER OF:
 - 5' TO 8' MINIMUM FROM FURTHEST EXPOSED POINT OF THE WALL.
 - 0'-6" MINIMUM BEYOND THE FURTHEST POINT OF THE WALL.

 $\langle 2 \rangle$ EASEMENT SHALL EXTEND THE GREATER OF:

- 5'-0" MINIMUM FROM THE ST ROW LIMIT
- 0'-6" MINIMUM BEYOND THE FURTHEST EDGE OF THE FOOTING
- $\langle 3 \rangle$ ROW LIMIT SHALL START AT:
 - 0'-6" MINIMUM BEYOND THE FURTHEST EDGE OF THE FOOTING
- $\langle 4 \rangle$ EASEMENT SHALL EXTEND:
 - 5'-0" MINIMUM FROM THE ROW LIMIT
- $\left<5\right>$ DITCH TO BE LOCATED IN THE EASEMENT AREA

LEGEND:



PERMANENT EASEMENT

x104	

SOUND TRANSIT **GUIDANCE DRAWINGS RIGHT OF WAY**

PERMANENT EASEMENTS 4 OF 6

RAWING No.:

GUI-REX104

FACILITY ID:

SHEET No .:



			LINE IS 1" AT FULL SCALE	SoundTransit	SCALE: NTS FILENAME: GUI-RE CONTRACT No.: RTA/LR -
SUBMITTED BY:	DATE:	REVIEWED BY:		DATE:	DATE:
-	-	-		-	2/2024



RAWING No.:

GUI-REX105

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						DESIGNED BY:
						DRAWN BY:
						CHECKED BY:
1	2/2024				2024 REVISED GUIDANCE DRAWINGS	
0	8/2019				NEW - CIVIL DIRECTIVE AND STANDARD DWGS	APPROVED BY:
No.	DATE	DSN	СНК	APP	REVISION	



TUNNEL EASEMENT

			LINE IS 1" AT FULL SCALE	SoundTransit	SCALE: NTS FILENAME: GUI-REX CONTRACT No.: RTA/LR -
SUBMITTED BY:	DATE:	REVIEWED BY:		DATE:	DATE:
-	-	-		-	2/2024

GENERAL NOTES:

- 1. THIS SECTION IS PROVIDED AS A GUIDE FOR
- ESTABLISHING MINIMUM RIGHT-OF-WAY LIMITS ONLY.2. DIMENSIONS SHOWN ARE FOR GENERAL CONDITIONS AND SHALL BE MODIFIED WHERE ENGINEERING OR
- REAL ESTATE REQUIREMENTS DICTATE.
- 3. FOR STATION BOXES, CLEARANCES VARY. SEE ROW ENGINEER.

LEGEND:

PERMANENT EASEMENT

- TUNNEL EASEMENT

<106

SOUND TRANSIT GUIDANCE DRAWINGS RIGHT OF WAY

PERMANENT EASEMENTS 6 OF 6 RAWING No.:

GUI-REX106

FACILITY ID:

SHEET No.:

1





SUBSURFACE ANCHORS EASEMENT NTS

SCALE: NTS 5 FILENAME: GUI-REX201 SoundTransit CONTRACT No .: RTA/LR -SUBMITTED BY: REVIEWED BY: DATE: DATE: DATE 2/2024

GENERAL NOTES:

- 1. THESE SECTIONS ARE PROVIDED AS A GUIDE FOR
- ESTABLISHING MINIMUM RIGHT-OF-WAY LIMITS ONLY. 2. DIMENSIONS SHOWN ARE FOR GENERAL CONDITIONS AND SHALL BE MODIFIED WHERE ENGINEERING OR
- REAL ESTATE REQUIREMENTS DICTATE. 3. DESIGNER TO OBTAIN PERMISSION FROM AHJ BEFORE
- FINALIZING DESIGN.

KEY NOTES:



LEGEND:





FEE TAKE





TEMPORARY CRANE SWING EASEMENT

NTS

SOUND TRANSIT **GUIDANCE DRAWINGS RIGHT OF WAY**

TEMPORARY EASEMENTS

RAWING No.:

GUI-REX201

FACILITY ID:

SHEET No .:

ABBREVIATIONS							SYMBOLS			
	HORIZONTAL ALIGNMENT		MISCEL	LANEOUS		<u> </u>	LEFT HAND	CURVE		
AH	D AHEAD	APPROX A/R	APPROXIMATE AS REQUIRED							
BK		AREMA	AMERICAN RAILWAY ENG MAINTENANCE-OF-WAY	GINEERING AND ASSOCIATION		φ		JCURVE		
CS	POINT OF CHANGE FROM CIRCULAR CURVE TO SPIRAL	BEG B.M.	BEGINNING BENCH MARK				POINT OF S	WITCH		
Dc K	DEGREE OF CIRCULAR CURVE, ARC DEFINITION TANGENT DISTANCE FROM TS OR ST TO PC OR PT OF THE EXTENDED	BRG	BEARING				TURNOUT S	HOWING PITO		
	CIRCULAR CURVE OF A SPIRALIZED CURVE	CL	CENTERLINE				SINGLE CRO	DSSOVER		
Es Lc	TOTAL LENGTH OF CIRCULAR CURVE	CONC	CONCRETE CONTINUOUS WELDED F	AIL		$\overline{}$	DOUBLE CR	OSSOVER		
Ls LS	TOTAL LENGTH OF SPIRAL C LENGTH OF COMPOUND SPIRAL (FROM CS1 TO SC2)	DIA	DIAMETER				TRACK CRC	SSING (CIRCLE AT PI		
Ls	SUFFIX (1) AT THE SYMBOL DENOTES THE DATA FOR THE FIRST SPIRAL IN AN UNSYMMETRICAL SPIRALIZED CURVE SUFFIX (2) SAME AS ABOVE - SECOND SPIRAL	DF DOR	DIRECT FIXIATION DESIGNER OF RECORD			×	OF CENTER	LINES) `		
LS L.T	T TOTAL LENGTH OF COMPOUND SPIRAL (FROM SPO TO SC) LONG TANGENT OF SPIRAL	F	FAST			\longrightarrow	BUMPING P	OST		
Р	OFFSET FROM THE TANGENT TO THE PC OR PT OF THE EXTENDED CIRCULAR CURVE OF A SPIRALIZED CURVE (THROW)	EA EL	EACH ELEVATION			<u> </u>	DERAIL - PC	NINT TOWARD TRAFFIC		
PC PC PF	POINT OF CHANGE FROM TANGENT TO CIRCULAR CURVE C POINT OF COMPOUND CIRCULAR CURVATURE POINT OF FROG	EQ EGR	EQUAL EMERGENCY GUARD RA	IL						
PI	POINT OF INTERSECTION OF TWO TANGENTS POINT OF INTERSEPTION OF MAIN TANGENT WITH TANGENT THROUGH SC OR CS POINT	FT	FEET OR FOOT			Δ	PI, PVI			
PI PC PC	B POINT OF INTERSECTION OF TURNOUT B POINT OF BEGINNING C POINT ON CIRCULAR CURVE	GALV GP	GALVANIZED GAUGE PLATE			()	CURVE NUM	IBER		
PC PC	E POINT OF ENDING S POINT ON SPIRAL	G/R PL	GUARD RAIL PLATE			S 20 . STREET .	TURNOUT N	UMBER		
	C POINT ON TANGENT C POINT OF REVERSE CIRCULAR CURVES S POINT OF REVERSE SPIRAL	HS HOF	HEEL OF SWITCH HEEL OF FROG				GRADE CRO	SSING ROAD		
PS PT	POINT OF SWITCH POINT OF CHANGE FROM CIRCULAR CURVE TO TANGENT	ID IJ	INSIDE DIAMETER INSULATED JOINT				STATION PL	ATFORM		
Rc	RADIUS OF CIRCULAR CURVE	INV 	INVERT			<u> </u>	ROAD RAIL	ROAD, OR OTHER		
	POINT OF CHANGE FROM SPIRAL TO CIRCULAR CURVE 1 POINT OF CHANGE FROM FIRST SPIRAL TO FIRST CIRCULAR CURVE 2 POINT OF CHANGE FROM COMPOUND SPIRAL TO SECOND CIRCULAR CURVE	JT	JOINT			•				
SS ST	POINT OF CHANGE FROM ONE SPIRAL TO ANOTHER POINT OF CHANGE FROM SPIRAL TO TANGENT		LEF I POUND LEFT HAND				LEFT OR RIG	RAIL JOINT - GHT RAIL		
S S.	TANGENT DISTANCE FROM PC OR PT TO PI	МАХ	MAXIMUM				NON INSULA	TED BOLTED RAIL JOINT		
TS Ts	POINT OF CHANGE FROM TANGENT TO SPIRAL TANGENT DISTANCE FROM TS OR ST TO PI	MIN MON MSI	MINIMUM MONUMENT MEAN SEALEVEL							
	DESIGN VELOCITY IN MILES PER HOUR	N	NORTH			$\widehat{}$	WHEEL DET	ECTOR BLOCKOUT		
Xs Ys	TANGENT DISTANCE FROM TS TO SC OR ST TO CS	NIC No.	NOT IN CONTRACT NUMBER				WELDED JC	INT		
	TOTAL CENTRAL ANGLE OF SPIRAL AND CIRCULAR CURVES	NTS	NOT TO SCALE				STATION EQ	UATION		
	CENTRAL ANGLE OF CIRCULAR CURVE 1 SUFFIX (1) AT THE SYMBOL DENOTES DATA FOR THE FIRST CIRCULAR CURVE OF A COMPOUND CURVE	OC OD	ON CENTER OUTSIDE DIAMETER							
	2 SUFFIX (2) SAME AS ABOVE - SECOND CIRCULAR CURVE	PF	POINT OF FROG				RAIL ANCHO	R ASSEMBLY		
	CENTRAL ANGLE OF SFIRAL OR SFIRAL ANGLE	PGL PO	PROFILE GRADE LINE POWER OPERATED				STANDARD I	RAIL		
		R	RADIUS, RIGHT				EMERGENC	Y GUARDRAIL		
		REF REINF	REFERENCE REINFORCE, REINFORCI	NG, REINFORCEMENT						
	VERTICAL ALIGNMENT	REQD RH	REQUIRED RIGHT HAND				HIGH STREN	GTH RAIL		
E	L ELEVATION a ACTUAL TRACK SUPERELEVATION IN INCHES	S STA	SOUTH STATION				RESTRAININ	G RAIL - INSIDE RAIL		
	UNBALANCED TRACK SUPERELEVATION IN INCHES PT HIGH POINT	STD SW	STANDARD SWITCH							
	PT LOW POINT O MIDDLE ORDINATE	SS T/E	SPRING SWITCH				RESTRAININ	G RAIL - BOTH RAILS		
	OVC POINT ON VERTICAL CURVE	T/G TO					PRECURVED) RAIL		
P P	VC POINT OF VERTICAL CURVE VCC POINT OF VERTICAL COMPOUND CURVE					[]	<u></u>	RAII		
	VI POINT OF VERTICAL INTERSECTION OF TWO VERTICAL TANGENTS VRC POINT OF REVERSE VERTICAL CURVE	TRK	TOP OF RAIL TRACK TYPICAL				STANDARD			
	C VERTICAL CURVE	UIC	UNION INTERNATIONALE	DES CHEMINS DE FER						
			(INTERNATIONAL UNION	OF RAILWAYS CODE)						
		VAR VERT	VARIABLE VERTICAL							
		W/ W/O	WITH WITHOUT							
		WP								
		X-ING X-OVER	CROSSING CROSSOVER							
			r						SCALE	
	 						AT		N/A	
		DRAWN BY:					∏ IS 1⁼		FILENAME: GUI-KZN001	
2	2/2024 2024 REVISED GUIDANCE DRAWINGS	CHECKED BY:	1						CONTRACT No.: RTA/I R -	
	6/2013 REVISED - CIVIL DIRECTIVE AND STANDARD DWGS 6/2013 NEW - CIVIL DIRECTIVE AND STANDARD DWGS	APPROVED BY:	1	SUBMITTED BY:	DATE:	REVIEWED BY:	I	DATE:	DATE:	
j No.	DATE DSN CHK APP REVISION			-	-	-		-	2/2024	

GENERAL NOTES
 FOR GENERAL CIVIL NOTES SEE GUI-CZN011. STATIONS GIVEN FOR INSULATED JOINTS ARE TO THE CENTER OF A PAIR OF JOINTS, UNLESS NOTED OTHERWISE. SEE TRACK CHARTS FOR LOCATIONS

SOUND TRANSIT **GUIDANCE DRAWINGS** TRACKWORK

ABBREVIATIONS, SYMBOLS & GENERAL NOTES

DRAWING No.:

GUI-KZN001

FACILITY ID:

SHEET No .:

2



			LINE IS 1" AT FULL SCALE	SoundTransit	SCALE: NTS FILENAME: GUI-KA CONTRACT No.: RTA/LR -
SUBMITTED BY:	DATE:	REVIEWED BY:		DATE:	DATE:
-	-	-		-	2/2024

- TIE.

- 3. 12" BALLAST SHOULDER MINIMUM.

- DETAILS.

- FEET BETWEEN MARKERS.
- BALLAST.

1. SEE DRAWING GUI-KAX061 FOR TRACK CENTER SPACING REQUIREMENTS.

2. AT DESIGNATED WALKWAY, WALKWAY BALLAST SHALL BE PLACED MINIMUM OF 12" FROM END OF CONCRETE

4. DUCTBANK/ CONDUIT LOCATION VARIES. SEE STANDARD SYSTEM PLANS AND CONTRACT DRAWINGS FOR

5. FOR CONCRETE TIE DETAILS SEE STD-KAD050.

6. FOR FENCE AND RAILING SEE CONTRACT DRAWING FOR TYPE AND HEIGHT.

7. FOR BALLAST CURB AND WALLS DETAILS SEE STANDARD PLANS AND CONTRACT DRAWINGS.

8. SEE CONTRACT DRAWINGS FOR LIMITS OF GEOMEMBRANE.

9. FOR WALKWAY AND CROSSING DETAILS SEE GUIDANCE DRAWING STD-KAD066 AND STD-KAD070.

10. YELLOW CENTERLINE WALKWAY MARKER EQUALLY SPACED BETWEEN OCS POLES. MAXIMUM SPACING IS 50

11.NO. 5 BALLAST IS REQUIRED WITHIN THE LIMITS OF WALKWAY. WHERE NO WALKWAY IS PRESENT, USE NO. 4

ALTERNATE TANGENT DOUBLE TRACK WALKWAY NTS

NTS

K060	

SOUND TRANSIT **GUIDANCE DRAWINGS** TRACKWORK

BALLASTED DOUBLE MAIN TRACK **TYPICAL SECTIONS**

RAWING No.:

GUI-KAX060

FACILITY ID:

SHEET No .:

2

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20/24 12:18 PM

						DESIGNED BY:
						DRAWN BY:
2	2/2024				2024 REVISED GUIDANCE DRAWINGS	CHECKED BY:
1	8/2019				REVISED - CIVIL DIRECTIVE AND STANDARD DWGS	
0	6/2013				NEW - CIVIL DIRECTIVE AND STANDARD DWGS	APPROVED BY:
No.	DATE	DSN	СНК	APP	REVISION	

LIGHT RAIL GUIDEWAY SECTION

NTS

GENERAL NOTES:

- 1. THE TYPICAL MAINLINE TRACK SPACING IS 15'-9". TRACK SPACING MAY VARY DEPENDING UPON PROJECT SPECIFIC CONDITIONS. THE DESIGNER OF RECORD SHALL DEMONSTRATE THE FOLLOWING MINIMUM CONDITIONS ARE MET.
 - THE MAINTENANCE WALKWAY AND OBSTRUCTIONS SHALL
 - NOT INTRUDE INTO THE CLEARANCE ENVELOPE. • THE MINIMUM DIMENSION BETWEEN LRV CLEARANCE ENVELOPES, AS MEASURED AT 80" ABOVE THE FINISHED SURFACE, SHALL BE 56 INCHES.
- 2. TYPICAL SECTION DIMENSION AND CLEARANCE REQUIREMENTS APPLY TO ALL TRACK TYPES: BALLASTED, EMBEDDED AND DIRECT FIXATION.
- 3. EMERGENCY EGRESS LOCATION SHALL COINCIDE WITH THE MAINTENANCE WALKWAY. THE MAINTENANCE WALKWAY MUST MEET THE MINIMUM REQUIREMENTS FOR EMERGENCY EGRESS AS DEFINED IN THE SOUND TRANSIT REQUIREMENTS MANUAL.

X061	

SOUND TRANSIT **GUIDANCE DRAWINGS** TRACKWORK

TYPICAL GUIDEWAY SECTIONS

RAWING No.:

GUI-KAX061

FACILITY ID:

SHEET No.:

2

ωı

				17' -0"
	WALL DRAIN PER CONTR			2' -0" (MIN) TYP
TYPE C			BALLAST	40:1
	\bigcirc		SUBBALLAST	
<u> </u>		— CONCRETE TIE		TY
Ð				
D		- SEE NOTE 2		FINISHED GRADE
		— WALL DRAIN PER CONTRACT DRAWING		
T NT	YPE D: MSE WALL 5	$\left.\right)$		T NT
				SCALE:
				NTS

			I" AT		NTS FILENAME [:]
			NLL SC		GUI-KAX00
			FU L		CONTRACT No.:
			4	JUUNDIKANSII	RTA/LR -
SUBMITTED BY:	DATE:	REVIEWED BY:		DATE:	DATE:
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			LINE IS 1" AT FULL SCALE	SoundTransit	SCALE: 1" = 1'-0" FILENAME: GUI-KA> CONTRACT No.: RTA/LR -
SUBMITTED BY:	DATE:	REVIEWED BY:		DATE:	DATE:
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		LINE IS 1" AT	FULL SCALE	SoundTransit	SCALE: NTS FILENAME: GUI-KAD140 CONTRACT No.: RTA/LR -	SOUND TRANSIT GUIDANCE DRAWINGS TRACKWORK DIRECT FIXATION TRACK CONSTRUCTION	DRAWING No. GUI-K FACILITY ID: SHEET No.:
SUBMITTED BY:	DATE: -	REVIEWED BY:		DATE: -	DATE: 2/2024	PRECAST CONCRETE PANEL	

3/4" DIAX10 UNC ALLEN

3/4" RECESS -

. ⊿. ⊿

(TYPICAL BOTH SIDE OF TRACK)

NTS

GENERAL NOTES:

- 1. FASTENER SPACING 30" ON TANGENT STATION TRACK.
- 2. PLINTH CONCRETE SHALL BE PLACED IN SEGMENTS.
- SEGMENTS SHALL BE 4, 5 OR 6 FASTENER LENGTHS.
- 3. PLINTH SHALL NOT OVERLAP ANY STRUCTURAL JOINTS.
- 4. OTHER GAPS IN PLINTH SHALL BE LOCATED AS REQUIRED FOR STRUCTURAL JOINTS, DRAINAGE AND PASSAGE OF SIGNAL OR OTHER CABLES.
- 5. PLINTH GAPS SHALL NOT BE LOCATED WITHIN THE MAINTENANCE WALKWAY PEDESTRIAN CROSSING LOCATION. 6. PRECAST CONCRETE PANELS SHALL BE DESIGNED BY THE
- CONTRACTOR (UNIFORM LL=100PSF). SURFACE FINISH SHALL MATCH FINISH AND COLOR OF STATION WALKWAY AREA.
- 7. SEE DIRECT FIXATION TRACK INSTALLATION DRAWING STD-KAD120 TO STD-KAD128.
- 8. CENTER PANEL SURFACE AREA VARIES DEPENDING ON INSTALLATION OF RESTRAINING RAILS BETWEEN RUNNING RAILS. FIELD PANEL SURFACE AREA VARIES DEPENDING ON LOCATION OF MAINTENANCE WALKWAY PEDESTRIAN CROSSING INSTALLATION BETWEEN TRACKS. FOR LOCATION AND LIMITS OF MAINTENANCE WALKWAY PEDESTRIAN CROSSING INSTALLATION SEE TRACK CHART DRAWINGS.
- 9 EMERGENCY GAURD RAIL MUST BE INTERRUPTED 2" FROM THE ENDS OF THE PEDESTRIAN CROSSING PANEL.

- STAINLESS STEEL ANCHOR BOLT LINING

┌─ 3/4" RECESS

(AD140

PLAN VIEW

115 RE EMBEDDED TRACK INSTALLATION AT ROAD INTERSECTIONS

SCALE: 3/4" = 1'-0"

	BILL OF MATERIAL	
ITEM	DESCRIPTION	QUANTITY
1	115 RE RAIL	AS REQUIRED
2	115 RE RAIL BOOT	AS REQUIRED
3	RUBBER FLANGEWAY FORMER	AS REQUIRED
4	CONCRETE SLAB INCLUDING REINFORCING STEEL (1ST AND 2ND POUR)	AS REQUIRED
5	ANCHOR PLATES (SEE DWG GUI-KAD245)	4 OR 2 BETWEEN BEAMS
6	PLASTIC TIE (SEE DWG GUI-KAD245)	10' CTRS (OR LESS)
7	PLASTIC CLIPS COMPLETE WITH BOLTS, STEEL WASHER AND PLASTIC SHEET COVER	4/BEAM, 2/ANCHOR PLATE
8	BINDER CLIPS	AS REQUIRED

L								
\sum_{n}					DESIGNED BY:			
							DRAWN BY:	
	2	2/2024				2024 REVISED GUIDANCE DRAWINGS	CHECKED BY:	
	1	8/2019				REVISED - CIVIL DIRECTIVE AND STANDARD DWGS		
	0	6/2013				- NEW - CIVIL, ARCH, SYSTEMS GUIDANCE DWGS APPROVED BY:		
	No.	DATE	DSN	СНК	APP	REVISION		

			LINE IS 1" AT FULL SCALE	SoundTransit	SCALE: AS NOTED FILENAME: GUI-KA CONTRACT No.: RTA/LR -
SUBMITTED BY:	DATE:	REVIEWED BY:		DATE:	DATE:
-	-	-		-	2/2024

SCALE: 1 1/2" = 1'-0"

GENERAL NOTE:

1. FOR TRACK SLAB CONSTRUCTION GENERAL NOTES SEE DWG GUI-KAD220.

PAY LIMIT

(115RE)

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PLAN VIEW

115 RE EMBEDDED TRACK INSTALLATION AT EMERGENCY VEHICLES CROSSING AND AT PEDESTRIAN CROSSING

SCALE: 3/4" = 1'-0"

BILL OF MATERIAL							
ITEM	DESCRIPTION	QUANTITY					
1	115 RE RAIL	AS REQUIRED					
2	115 RE RAIL BOOT	AS REQUIRED					
3	RUBBER FLANGEWAY FORMER	AS REQUIRED					
4	CONCRETE SLAB INCLUDING REINFORCING STEEL (1ST AND 2ND POUR)	AS REQUIRED					
5	ANCHOR PLATES (SEE DWG GUI-KAD245)	4 OR 2 BETWEEN BEAMS					
6	PLASTIC TIE (SEE DWG GUI-KAD245)	10' CTRS (OR LESS)					
7	PLASTIC CLIPS W/ STEEL WASHER	4/BEAM, 2/ANCHOR PLATE					
8	BINDER CLIPS	AS REQUIRED					

8							DESIGNED BY:		
-									
-							DRAWN BY:		
-									
	2	2/2024				2024 REVISED GUIDANCE DRAWINGS	CHECKED BY:		
ĺ	1	8/2019				REVISED- CIVIL DIRECTIVE AND STANDARD DWGS			
()	6/2013				NEW - CIVIL, ARCH, SYSTEMS GUIDANCE DWGS	APPROVED BY:		
Ν	۱o.	DATE	DSN	СНК	APP	REVISION			

- ANCHOR PLATE (TYP) (SEE GUI-KAD245)

- BINDER CLIP @ 20"CC

TYPICAL SECTION - TANGENT TRACK AT PLASTIC TIE SCALE: 1 1/2" = 1'-0"

TYPICAL SECTION - TANGENT TRACK AT ANCHOR PLATES /

SCALE: 1 1/2" = 1'-0"

			LINE IS 1" AT FULL SCALE	SoundTransit	SCALE: AS NOTED FILENAME: GUI-K CONTRACT No.: RTA/LR -	(AD
SUBMITTED BY:	DATE:	REVIEWED BY:		DATE:	DATE:	
-	-	-		-	2/2024	

GENERAL NOTES:

- 1. FOR TRACK SLAB CONSTRUCTION GENERAL NOTES SEE DWG GUI-KAD220.
- 2. TOP OF SECOND POUR CONCRETE TRACK SLAB CROSS-SLOPE PER CIVIL DRAWING.

CL TRACK

CHK APP

DSN

REVISION

DATE:	REVIEWED BY:	
	DATE:	DATE: REVIEWED BY:

2/2024

NEW - CIVIL, ARCH, SYSTEMS GUIDANCE DWGS

APPROVED BY:

20/24 | 12:19 PM | HARRISBK

6/2013

CHK APP

DSN

REVISION

GENERAL NOTES:

- 1. CONTROL POINTS FOR PROFILE GRADE IS SET TO TOP OF LOW RAIL ELEVATION.
- RAIL WELDS SHALL NOT BE MADE LESS THAN 3" FROM THE EDGE OF ANCHOR PLATE OR PLASTIC BEAM.
- CONCRETE MIX SHALL BE 5000 PSI. REINFORCING SHALL BE GRADE 60 ASTM A615 DEFORMED BARS.
 8. FIRST POUR CONCRETE BASE SLAB TO BE ROUGH BROOM FINISHED EXCEPT FOR SMOOTH TROWEL FINISH (8" WIDE) EITHER SIDE OF RAIL BOOT.
- 9. SECOND POUR CONCRETE TOP SLAB TO BE STAMPED OR COLORED AND SKID RESISTANT RADIUS. SPACING SHALL BE 5'-0" O.C. BEGINNING 10' PRIOR TO TS AND ENDING 10' AFTER ST FOR CURVES ≤ 500.
 9. SECOND POUR CONCRETE TOP SLAB TO BE STAMPED OR COLORED AND SKID RESISTANT FINISH, FOR DETAILS SEE URBAN DESIGN DRAWINGS.
 9. SECOND POUR CONCRETE TOP SLAB TO BE STAMPED OR COLORED AND SKID RESISTANT FINISH, FOR DETAILS SEE URBAN DESIGN DRAWINGS.
 9. SECOND POUR CONCRETE TOP SLAB TO BE STAMPED OR COLORED AND SKID RESISTANT FINISH, FOR DETAILS SEE URBAN DESIGN DRAWINGS.
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 9. SECOND POUR CONCRETE TOP SLAB TO BE STAMPED OR COLORED AND SKID RESISTANT FINISH, FOR DETAILS SEE URBAN DESIGN DRAWINGS.
- RADIUS. SPACING SHALL BE 5-0" O.C. BEGINNING 10" PRIOR TO TS AND ENDING 10" AFTER ST FOR CURVES ≤ 500.
 5. GRADING TRANSITION OF INFILL CONCRETE AT CROSSWALKS FOR SURFACE FLATS TO VALLEY PROFILE SHALL BE MADE OVER A DISTANCE OF 5'-0" OR TO THE DRAIN WHICHEVER IS CLOSEST.
 10. FOR LOCATION OF CONDUITS, STUB UP AND BLOCKOUTS FOR SYSTEM CONNECTIONS TO RAIL AND FOR TWC LOOP WIRES SEE DUCTBANK/CONDUIT, REQUIREMENTS DRAWINGS.
 11. REINFORCING STEEL IN THE TRACK SLAB SHALL BE ELECTRICALLY BONDED AS INDICATED IN THE CORROSION CONTROL DRAWINGS.
- 6. TWO PAIRS OF ANCHOR PLATES ARE TO BE SPACED (3.33') BETWEEN PLASTIC TIES IN TANGENT TRACK AND FOR CURVES GREATER THEN 500' RADIUS. FOR CURVED TRACKS WITH RADIUS LESS THAN OR EQUAL TO 500' RADIUS, SPACE ONE PAIR OF ANCHOR PLATES BETWEEN PLASTIC TIES.

TYPICAL SECTION - TANGENT TRACK AT PLASTIC TIE

- FOR TRACK SLAB'S REINFORCEMENT

DETAILS SEE CIVIL DRAWINGS

TYPICAL SECTION - TANGENT TRACK AT ANCHOR PLATES

SCALE: 1 1/2" = 1'-0"

FIRST POUR CONCRETE

TRACK SLAB -

		1" AT		5	SCALE: AS NOTED FILENAME:	SOUND TRANSIT GUIDANCE DRAWINGS	DRAWING No.: GUI-KAI	0220
					GUI-KAD220	TRACKWORK	FACILITY ID:	
			IT5	SoundTransit	CONTRACT №.: RTA/LR -	EMBEDDED TRACK CONSTRUCTION	SHEET No.:	REV:
SUBMITTED BY:	DATE:	REVIEWED BY:		DATE:	DATE:	TYPICAL TRACK SECTIONS MIDBLOCK ROAD SECTION (115RE)		2
 -	-	-		-	2/2024			

7. FIRST POUR CONCRETE BASE SLAB SHALL BE AT TOP OF PLASTIC TIE AND SLIGHTLY RAISED TO BOTTOM OF RAIL BASE BOOT BETWEEN THE PLASTIC TIES TO LOCK THE RAIL IN PLACE.

SUBMITTED BY:	DATE:	REVIEWED BY:		DATE:	DATE: 2/2024
			ΞŢΞ	SoundTransit	CONTRACT No.: RTA/LR -
			IE IS 1" LL SCA		FILENAME: GUI-KAD225
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SOUND TRANSIT GUIDANCE DRAWINGS	DRAWING No.: GUI-KAD225
TRACKWORK EMBEDDED TRACK CONSTRUCTION RAIL FIXATION DETAILS	FACILITY ID: SHEET No.: REV:
(115RE)	2

		GUI-KAL)2230 2225		
			'AT ALE	5	SCALE: AS NOTED
			FULL SC/		FILENAME: GUI-KAE CONTRACT No.:
			4	JUUNDIKANSII	RTA/LR -
SUBMITTED BY:	DATE:	REVIEWED BY:		DATE:	DATE:
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RAIL BOOT / FLANGEWAY FORMER

- BINDER CLIP

TYPICAL RAIL BOOT CUFF FOR SPLICE AND DRAINAGE NTS

GENERAL NOTES:

- 1. ALLOW FOR DRAINAGE TO PASS THROUGH RAIL BOOT SPLICE.
- 2. SHAPE OF EXTRUDED RAIL RUBBER BOOT IS APPROXIMATE. FINAL SHAPE SHALL BE DESIGNED BY BOOT SUPPLIER.
- 3. INTERIOR SECTION OF CUFF SHALL CONFORM TO EXTERIOR
- SECTION OF BOOT.
- 4. RAIL BOOT ENDS TO BE CUT SQUARE AND TWO SECTIONS BUTTED TOGETHER.
- 5. NO RAIL BOOT JOINT WILL BE ALLOWED ON TRACKS AT ROAD INTERSECTIONS, AT EMERGENCY VEHICLES CROSSING AND AT PEDESTRIAN CROSSINGS. RAIL BOOT SHALL BE CONTINUOUS

└─ FIRST POUR CONCRE⁻

TRACK SLAB

(B)

	SOUND TRANSIT GUIDANCE DRAWINGS	DRAWING No.: GUI-KAD230			
D230	TRACKWORK	FACILITY ID:			
	EMBEDDED TRACK CONSTRUCTION RAIL BOOT GENERAL DETAILS (115RE)	SHEET No.: REV			

DSN

DATE

CHK APP

REVISION

	BILL OF MATERIAL			
ITEM	DESCRIPTION	QUANTITY		
1	115 RE TEE RAIL	AS REQUIRED		
2	FIRST POUR CONCRETE SLAB	AS REQUIRED		
3	SECOND POUR CONCRETE CEMENTITIOUS GROUT	AS REQUIRED		
4	THIRD POUR CONCRETE PAVEMENT INFILL	AS REQUIRED		
5	ANCHOR PLATES (3/4"x6"x12")	AS REQUIRED		
6	RAIL CLIPS	AS REQUIRED		
7	PROTECTIVE PLASTIC CAP	AS REQUIRED AS REQUIRED		
8	EPOXY GROUT			
9	3/4" ANCHOR BOLT COMPLETE	AS REQUIRED		
	4'-0"	→ ~ 4'-8 1/2"		
36	10" 8" CONCRETE FOF FLANGEWAY 2% 2% 2%	RMED THIRD POUR CONCRETE PAVEN INFILL 2% A A A A A A A A A A A A A		

			LINE IS 1" AT FULL SCALE	SoundTransit	SCALE: AS NOTED FILENAME: GUI-KAD CONTRACT No.: RTA/LR -
SUBMITTED BY:	DATE:	REVIEWED BY:		DATE:	DATE:
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REV:

GENERAL NOTES:

- 1. CONTROL POINTS FOR PROFILE GRADE IS SET TO TOP OF LOW RAIL ELEVATION.
- 2. RAIL WELDS SHALL NOT BE MADE LESS THAN 3" FROM THE EDGE OF ANCHOR PLATE.
- 3. GRADING TRANSITION OF INFILL CONCRETE AT CROSSWALKS FOR SURFACE FLATS TO VALLEY PROFILE SHALL BE MADE OVER A DISTANCE OF 5'-0" OR TO THE DRAIN -WHICHEVER IS CLOSEST.
- 4. ANCHOR PLATES ARE TO BE SPACED AT EVERY 3'-4" C.C.
- 5. FIRST POUR CONCRETE SHALL BE 9" THICK, SECOND POUR CONCRETE SHALL BE AT TOP OF ANCHOR PLATES, AND SHALL BE JUST UNDER BASE OF RAIL AT LOCATION BETWEEN ANCHOR PLATES.
- 6. FIRST POUR CONCRETE BASE SLAB TO BE BROOM FINISHED EXCEPT FOR SMOOTH TROWEL FINISH (8" WIDE) EITHER SIDE OF THE RAIL.
- 7. THIRD POUR CONCRETE TOP SLAB FINISHED TO BE DETERMINED BY FINAL DESIGN. 8. FOR LOCATION OF CONDUITS, STUB UP AND BLOCK OUT FOR SYSTEM CONNECTIONS
- TO RAIL, SEE DUCTBANK/CONDUITS REQUIREMENT DRAWINGS.

			LINE IS 1" AT FULL SCALE	SoundTransit	SCALE: 4" = 1'-0" FILENAME: CONTRACT RTA/LR -	GUI-KAD
SUBMITTED BY:	DATE:	REVIEWED BY:		DATE:	DATE:	
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			FU LIN		CONTRACT No.:
			4	JUUNDIKANSII	RTA/LR -
SUBMITTED BY:	DATE:	REVIEWED BY:		DATE:	DATE:
-	-	-		-	2/2024

STRUCTURAL STEEL	STRUCTURAL ST	EEL			PL	ASTIC TIE ASSE	MBLY / MA	TERIAL LIST	
SECTION REINFORCEMENT	SECTION REINFC	JRGEMENT	KE	Y QTY	DES	CRIPTION	SIZE	FAB. NOT	ES
	SECTION E	3	1	4	NYLON REINFOR	CED PLASTIC CLIP	4.00 x 3.75	2-PLASTIC CLIP TO MATCH F (SEE NOTE 1)	RAIL BOOT DIM
TS (-)	NTS	·)	2	4	PROTECTIVE CO	VER	4 MIL	PLASTIC SHEET OR TAPE	
			3	4	7/8" UNC BOLT C HEX NUT AND FL	OMBINED WITH UNC AT WASHER			
			4	4	STEEL CLIP WAS	HER	3" x 2" x 1/4"	GALVANIZED STEEL	
GAUGE			5	1	RECYCLED PLAS STRUCTURAL ST REINFORCEMEN	TIC BEAM WITH EEL SECTION T	5"x3.5"x6'-0"	MAIN COMPONENT	
			6	3	1" UNC BOLT CON HEX NUT AND SU	MBINED WITH UNC JPPORT PLATE			
					ANC	HOR PLATE ASS		ATERIAL LIST	
			KE	Υ ΟΤΥ	DES		SIZE		ES
			1	2	NYLON REINFOR	CED PLASTIC CLIP	4.00 x 3.75	2-PLASTIC CLIP TO MATCH F (SEE NOTE 1)	RAIL BOOT DIM
			2	2	PROTECTIVE CO	VER	4 MIL	PLASTIC SHEET OR TAPE	
			3	2	7/8" UNC BOLT C HEX NUT AND FL	OMBINED WITH UNC AT WASHER			
			4	2	STEEL CLIP WAS	HER	3" x 2" x 1/4"	GALVANIZED STEEL	
			7	1	3/8" STEEL PLATE	E	6" x 12"	DRILL HOLES PER PLAN	
			8	4	1/2" DIA STUD		0'-4"	WELDED TO UNDERSIDE OF	PLATE
			9	LOT	WELD				
		1" AT ALE		SCALE		S GUI	OUND TR	ANSIT RAWINGS	DRAWING No.: GUI-KA
		T SC			GUI-KAD245		TRACKW	ORK	FACILITY ID:
					RACT No.:				
				RTA/	LR -			OR PLATE ASSEMBLY	SHEET No.:
SUBMITTED BY: DATE:	REVIEWED BY:		DATE:	DATE:			(115RE		
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GENERAL NOTES:

- 1. DIMENSION IS DEPENDENT UPON RAIL BOOT, PLASTIC CLIP AND BOLT TO BE USED BY THE CONTRACTOR. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE RESIDENT ENGINEER PRIOR TO FABRICATION OF PLASTIC TIES AND ANCHOR PLATES. 2. DETAILS OF PLASTIC TIE AND ANCHOR PLATE ON THIS DRAWING ARE PROVIDED AND
- PROPERTY OF IRON HORSE ENGINEERING COMPANY.

		GUI-KA
UI-KAD245	GUIDANCE DRAWINGS TRACKWORK	FACILITY ID:
0.:	EMBEDDED TRACK CONSTRUCTION PLASTIC BEAM AND ANCHOR PLATE ASSEMBLY (115RE)	SHEET No.:

			LINE IS 1" AT FULL SCALE	SoundTransit	SCALE: NTS FILENAME: GUI-KAD2: CONTRACT No.: RTA/LR -
SUBMITTED BY:	DATE:	REVIEWED BY:		DATE:	DATE:
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			s 1" АТ SCALE	5	SCALE: AS NOTED FILENAME:	SOUND TRANSIT GUIDANCE DRAWINGS	DRAWING No.: GUI-KA	D427
					GUI-KAD427	TRACKWORK	FACILITY ID:	
		-T_	SOUNDIRANSIT	RTA/LR -	TRANSITION SLAB	SHEET No.:	REV:	
SUBMITTED BY:	DATE:	REVIEWED BY:		DATE:	DATE:	TRACK TO STANDARD DIRECT FIXATION TRACK		1
-	-	-		-	2/2024			

GENERAL NOTE:

1. FOR DF TRACKS UNDER HIGH RESILIENT FASTENER AND STANDARD FASTENER SEE DWGS STD-KAD100 AND STD-KAD102.

				GE	NERAL NOTES				
/	ALL ELEVAT TO CONVER CONTROL D	IONS T TO IAGR/	ARE B CITY (AMS.	ASED DF SEA	ON NORTH AMERICAN VERTICAL DATUM, 1988 (NAVD8 ATTLE DATUM, REFER TO HORIZONTAL AND VERTICAL	38).			
/ () 	ALL COORD ON FOUR LO PROJECT. T	INATE DCAL O COI	ES, BE/ DATUN NVER	ARING M PLAI F COO	S OR AZIMUTHS AND DISTANCES SHOWN ON THE PLA NES, NORTH, CENTRAL, SOUTH AND TACOMA, AS ESTA RDINATES FROM THE LOCAL DATUM PLANES TO NAD8	NS ARE BASED ABLISHED FOR THE 3:			
	NORTH: SI	JBTRA INATIO	ACT 30 ON FAC	0,000 CTOR (FROM THE NORTHING AND EASTING COORDINATES AND OF 0.999965007.	APPLY THE			
	CENTRAL:	SUBT		200,00	0 FROM THE NORTHING AND EASTING COORDINATES AN	ID APPLY THE			
	SOUTH: SI	JBTRA	ACT 10	0,000 F	FROM THE NORTHING AND EASTING COORDINATES AND	APPLY THE			
TACOMA: SUBTRACT 100,000 FROM THE NORTHING AND EASTING COORDINATES AND APPLY THE COMBINATION FACTOR OF 0 999978298									
	EAST: SUE		CT 3280)83.333	3 FROM THE NORTHING AND EASTING COORDINATES AND	D APPLY THE			
ł			JN FAC	ANE ZO	OF 0.999976415. ONES AND DESIGN UNITS:				
	NORTH: U	-LINK.	N-LINI	~ <					
	CENTRAL:	C510.	, C700.	C10. (C735, C810				
	SOUTH: C	755, C	440	-,					
	TACOMA:	C910							
1	ALL HORIZO AS NOTED.	NTAL	AND \	/ERTI	CAL DISTANCES ARE IN FEET AND/OR DECIMALS OF A	FOOT EXCEPT			
() ()	STATIONS, (OTHERWISE OF INCREAS	DFFSE NOTI	ETS AN ED. TI STATIC	ND PR HE CO NING	OFILES INDICATE THE CONTROL TRACK TOP OF RAIL UNTROL TRACK IS THE RIGHT TRACK WHEN VIEWED IN UNLESS OTHERWISE NOTED.	JNLESS THE DIRECTION			
1 - -	NON-CONTF TRACK TOP TRACK IS PF FROM THE F	Rol Th Of R/ Roje(Profi	RACK AIL UN CTED I	TOP C ILESS RADIA ADE C	OF RAIL ELEVATION SHALL BE EQUAL TO THE ADJACEN OTHERWISE NOTED. THE PROFILE GRADE OF THE NC LLY IN CURVED SECTIONS AND PERPENDICULAR IN TA OF THE CONTROL TRACK.	T CONTROL N-CONTROL NGENT SECTIONS			
/	ALL GRADIENTS ARE IN PERCENT, EXCEPT AS NOTED OTHERWISE.								
-				AN TC	P OF LOW RAIL IN SUPERELEVATED SECTIONS, EXCEP	ът			
-	TRACK PRO	FILES	S ARE	CARR	IED ON THE LOW RAIL THROUGH HORIZONTAL CURVE	S AND			
e E	SPIRALS. TH EXCEPT AS	IE LEN NOTE	NGTHS D OTH	S OF L IERWI	INES ARE BASED ON THE CENTERLINE OF TRACK ALIG SE.	NMENT,			
F	TRACK SUP PROFILE GF SUPERELEV	ERELE RADE I ATION	EVATIO LINE A N EXC	ON IS / ND BY EPT A	ACCOMPLISHED BY MAINTAINING TOP OF INSIDE (LOW / RAISING THE OUTSIDE RAIL AN AMOUNT EQUAL TO T S NOTED OTHERWISE.	') RAIL AT HE ACTUAL			
E	EXISTING AI				S, SURFACE AND SUBSURFACE, ARE NOT SHOWN ON C				
l				۲ LOC ۲	ATIONS SEE SURFACE DRAINAGE AND UTELLT DRAW	NG3.			
	CALL	. MIN		Л 2 А	ND MAXIMUM 10 BUSINESS DAYS				
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				 		DESIGNED BY:			
	 	 		 	 	DESIGNED BY: DRAWN BY:			
	 2/2024	 	 	 	 2024 REVISED GUIDANCE DRAWINGS	DESIGNED BY: DRAWN BY: CHECKED BY:			
	 2/2024 8/2019	 	 	 	 2024 REVISED GUIDANCE DRAWINGS REVISED - CIVIL DIRECTIVE AND STANDARD DWGS	DESIGNED BY: DRAWN BY: CHECKED BY:			

EXISTING

RIGHT-OF-WAY LINE

_____ x 22.5 _____

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PROPERTY LINE EASEMENT LINE EASEMENT-TEMPORARY EASEMENT-UTILITY WETLAND BOUNDARY INDEX CONTOUR INTERMEDIATE CONTOUR CENTER OR BASE LINE MATCH LINE OR SECTION LINE TRACK CENTER LINE FENCE LINE DIRECTION OF FLOW STORM DRAIN LINE UNDERDRAIN LINE STRUCTURE OUTLINE RAILROAD TRACKS CLEANOUT STORM DRAIN MANHOLE SIDEWALK AND MISC. LINES TRACKWAY INLET / CATCH BASIN / INLET FLARED END SECTION HEADWALL, HEADWALL WITH WINGWALL DITCH OFFSET MANHOLE STATION EQUATION HIGH POINT LOW POINT TRACKWAY DRAIN / AERIAL DRAIN TRACK DRAIN SPOT ELEVATIONS SURVEY CONTROL MONUMENT TEST BORING CURB LINE **RETAINING WALL BEAM GUIDE RAIL** HAND RAIL CITY, COUNTY LINES TOP OF CUT TOE OF FILL TOP OF CUT TOE OF CUT TOP OF FILL TOE OF FILL PARCEL NUMBER (TAX ACCOUNT N0.)

PROPOSED

			LINE IS 1" AT FULL SCALE	SoundTransit	SCALE: NTS FILENAME: GUI-CZN001 CONTRACT No.: RTA/LR -
SUBMITTED BY:	DATE:	REVIEWED BY:		DATE:	DATE:
-	-	-		-	2/2024

SOUND TRANSIT R/W NO.

SOUND TRANSIT **GUIDANCE DRAWINGS CIVIL & UTILITIES**

NOTES & SYMBOLS

DRAWING No.:

GUI-CZN001

SHEET No.:

FACILITY ID:

2

LEGE	END - PROPOSED IMPROVE	MENTS						
DESCRIPTION	EXAMPLE	NOTES	EXISTING		PROPOSED		EXISTING	3
PIPE SEWER COMBINED	8" PS	CONTINUOUS						
<1'-0" DIA	24" PS			FACILITY TO BE ABANDONED	_// // // //_	-	C C	C C C OC
PIPE SEWER COMBINED <u>></u> 1'-0" DIA		HATCH = DOTS, SCALE 10, 30°		FACILITY TO BE REMOVED	-	-	——————————————————————————————————————	E — — — E —
	6" SS		WM OR 🖽	WATER METER		-	OE O	E — — — — OE — — — ET — — — — OET — —
SIDE SEWER COMBINED		CONTINUOUS		WATER MANHOLE		-	OETC OE	TC — — — — OETC –
PIPE SEWER SANITARY <1'-0" DIA	8" PSS	CONTINUOUS		THRUST BLOCK	XX	-	—————F0————F(0————F0——
	24" PSS	CONTINUOUS	Q	FIRE HYDRANT	A	-	0P0	P———— OP——
\geq 1'-0" DIA		HATCH = ANSI 31, SCALE 20, 90°	M	EMPTY CASING (CAPPED)	[] M	-		S—————————————————————————————————————
SIDE SEWER SANITARY	6" SSS	CONTINUOUS		GAS VALVE		_	SD SI	D—————————————————————————————————————
				PAD MOUNTED TRANSFORMER		-	CSC	S————CS——
PIPE STORM DRAIN <1'-0" DIA	8" PSD	CONTINUOUS	EV OR E	ELECTRIC VAULT	EV	_	 OT O	TOT
PIPE STORM DRAIN	24" PSD	CONTINUOUS	EMH OR E	ELECTRIC MANHOLE	EMH	-	W V	V———— W——
≥1'-0" DIA		HATCH = ANSI 31, SCALE 10, 0°	-0-		- - -	L		ITIES HAVING
SERVICE DRAIN	8" SD	CONTINUOUS		UTILITY POLE W/ LIGHT		F		TH 24" & GREATER
	24" W			TELEPHONE RISER	•	=	24" G	
WATERMAIN <u>></u> 1'-0" DIA		HATCH = DOTS, SCALE 20, 30°	UT	SEE DWG NO US002		=		= = =
	MH-#		$\overline{\mathcal{T}}$	TELEPHONE MANHOLE		=	24 <u>" SS</u>	= == =
MANIOLL			T	TELEPHONE VAULT	T	=	24" SD	===
INLET TYPE 250A						=	24" CS	===
INLET TYPE 250B			(ST)			=	24" W DIP	= = =
INLET TYPE 252	_		TS	TEST STATION	TS	=	2 <u>4" T</u>	===
	A			TRAFFIC CABINET		_	24" CC	
CATCH BASIN				TRAFFIC CONTROLLER		_	24"_STE	
TYPE 240B CATCH BASIN	⊖ B			TRAFFIC VAULT		_		
TYPE 240C	() c			TRAFFIC SIGNAL/CONTROLLER UNDERGROUND				
TYPE 241			°co	SAN. SEWER CLEAN OUT	•			
CATCH BASIN TYPE 242A			\bigcirc	SAN. SEWER MANHOLE			1. WH	IERE SPACE ALLOWS,
CATCH BASIN TYPE 242B							2. THI	E LOCATIONS OF THE
CONCRETE DRIVEWAY	44 A			STORM DRAIN COLVERT			ANI	D SITE VERIFICATION.
HATCH=AR-CONC				TRACK DRAIN ASSEMBLY	——		FAC	CILITIES.
WATER METER	□ WM			CONCRETE			3. MA WA	INTAIN BUILDING SERV
							4. TH	ESE SYMBOLS AND AB
							FOI SYI	R THE LIGHT RAIL TRA MBOLS AND ABBREVIA
							LOO	CAL JURISDICTIONS.
							5. ALL CO	LELEVATIONS ARE BA
							6 WH	
							U. WH THI	E DEPTH OF COVER AI
								THE DIAWING.
							7. UT	FILITY LOCATES
								1-800-424-5555
		DESIGNED BY:				- ⊢T		SCALE: NTS
		DRAWN BY:				IS 1" A		FILENAME:
		CHECKED BY:				FULL FULL		GUI-UZN00 CONTRACT No.:
1 2/2024 0 8/2019	2024 REVISED STANDARD DRAWINGS	APPROVED BY:	SUBMIT	TTED BY: DATE:	REVIEWED BY:			RTA/LR - DATE:
No. DATE DSN CHK APP	REVISION		-	-	-		-	2/2024

UTILITY LINE

PROPOSED

24" W

24" T

24" CC

24" STE

CABLE TV UNDERGROUND	C	C
CABLE TV OVERHEAD	OC	OC
ELECTRIC UNDERGROUND	E	———Е ————
ELECTRIC OVERHEAD	OE	OE
ELECTRIC/TELEPHONE OVERHEAD	OTE	OTE
ELECTRIC/TELEPHONE/CABLE OVERHEAD	OETC	OETC
FIBER OPTIC	——————————————————————————————————————	F0
GAS	G	G
OIL PIPELINE		OP
SANITARY SEWER	SS	SS
STEAM	STE	
STORM DRAIN		SD
COMBINED SEWER	CS	CS
TELEPHONE	T	T
TELEPHONE OVERHEAD	OT	OT
WATER	W	W
	UNDERGROUND U	TILITIES HAVING
	HAVING A DIAMET	ER 24" AND LARGE
ELECTRIC DUCT BANK	24" E	
GAS	24" G	
SANITARY SEWER	24" SS	
STORM DRAIN	24" SD	
	24" CS	
COMBINED SEWER		

TELEPHONE DUCT BANK

WATER

CONCRETE CULVERT

STEAM

UTILITY NOTES

OWS, UTILITY FACILITIES ARE SHOWN TO SCALE.

THE EXISTING UTILITIES ARE APPROXIMATE AND WERE COMPILED FROM /IDED BY PUBLIC AND PRIVATE UTILITY AGENCIES, LIMITED FIELD SURVEY, TION. CONTRACTOR SHALL VERIFY AND UPDATE THIS INFORMATION AND D SURVEY AS REQUIRED TO DETERMINE THE ACTUAL LOCATIONS OF UTILITY

SERVICE CONNECTIONS TO ABUTTING PROPERTIES AT ALL TIMES. RE NOT SHOWN.

ID ABBREVIATIONS HAVE BEEN ADOPTED FOR USE IN SOUND TRANSIT DESIGNS TRANSIT SYSTEM AND MAY NOT BE IN COMPLETE AGREEMENT WITH THOSE EVIATIONS NORMALLY UTILIZED BY INDIVIDUAL UTILITY COMPANIES, AND

E BASED ON NORTH AMERICAN VERTICAL DATUM, 1988 (NAVD88). FOR TY OF SEATTLE DATUM, SEE HORIZONTAL & VERTICAL CONTROL PLANS.

HAS BEEN PERFORMED TO DETERMINE THE DEPTH TO EXISTING UTILITIES, ER ALONG WITH THE DATE THAT THE POTHOLING WAS PERFORMED IS NOTED

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MUM 2 AND MAXIMUM 10 BUSINESS DAYS OU DIG 5555

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SOUND TRANSIT **GUIDANCE DRAWINGS CIVIL & UTILITIES**

NOTES & SYMBOLS

RAWING No.:

GUI-UZN001

FACILITY ID:

SHEET No.:

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1			S

	ZONE	PREFERRED CONFIGURATION
-	1	RELOCATE UTILITY (PREFERRED) OR PROVIDE STRUCTURAL PROTECTION (SEE NOTE 1)
	2	RELOCATE UTILITY OR PROVIDE STRUCTURAL PROTECTION (SEE NOTE 1)
	3	NO MODIFICATION REQUIRED UNLESS SPECIAL CONCERN DUE TO AGE, CONDITION, REPLACEMENT FREQUENCY, ACCESS, OR RISK.

ZONE C	ZONE	PREFERRED CONFIGURATION
	А	RELOCATE UTILITY (PREFERRED) OR PROVIDE STRUCTURAL PROTECTION. (SEE NOTE 1)
 	В	RELOCATE UTILITY OR PROVIDE STRUCTURAL PROTECTION (SEE NOTE 1)
 	С	NO MODIFICATION REQUIRED UNLESS SPECIAL CONCERN DUE TO AGE, CONDITION, REPLACEMENT FREQUENCY, ACCESS, OR RISK.

			LINE IS 1" AT FULL SCALE	SoundTransit	SCALE: NTS FILENAME: GUI-UCD101 CONTRACT No.: RTA/LR -
SUBMITTED BY:	DATE:	REVIEWED BY:		DATE:	DATE:
-	-	-		-	2/2024

TES:

STRUCTURAL PROTECTION MAY INCLUDE INSTALLATION OF PIPE CASING OR CONCRETE COVER SLAB.

SOUND TRANSIT **GUIDANCE DRAWINGS CIVIL & UTILITIES**

TYPICAL UNDERGROUND UTILITY CONFIGURATION GUIDANCE

RAWING No.:

GUI-UCD101

FACILITY ID:

SHEET No.:

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