TRACK ALIGNMENT DATA - SB (SOUTHBOUND)

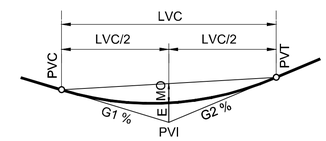
CURVE NUMBER	POINT	STATION	NORTH COORDINATE	EAST COORDINATE	DATA	
	POB	1500+00.00	318058.9391	1475450.2932		
					Δ= 34° 50' 59.48"	R= 549.99
	PI	1398+97.29	318274.1060	1475410.4198	Δ_c= 23° 23' 26.53"	L_C= 224.53
SB 260* (EXIST) (SEE NOTE 5, 6, 7 & 8)	TS	1396+69.40	318481.7190	1475504.3867	T_c= 113.85	L_{S1}= 110.00
	SC	1397+79.40	318380.0966	1475462.4136	T_{S1}= 227.89	L_{S2}= 110.00
	CS	1400+03.93	318158.7491	1475435.5223	θ_{S1}= 05° 43' 46.47"	E_a= 3.50
	ST	1500+09.06	318050.0326	1475451.9415	T_{S2}= 227.89	E_u= 2.98
					θ_{S2}= 05° 43' 46.47"	V= 30 MPH
					Δ= 42° 37' 51.25"	R= 665.75
	PI	1504+86.02	317581.0533	1475538.8454	Δ_c= 31° 26' 34.23"	L_C= 365.35
	TS	1501+60.86	317900.7742	1475479.5998	T_c= 187.40	L_{S1}= 130.00
SB 262	SC	1502+90.86	317773.8424	1475507.4207	T_{S1}= 325.16	L_{S2}= 130.00
	CS	1506+56.21	317467.2598	1475697.6101	θ_{S1}= 05° 35' 38.51"	E_a= 3.00
	ST	1507+86.21	317385.9498	1475798.9726	T_{S2}= 325.16	E_u= 2.35
					θ_{S2}= 05° 35' 38.51"	V= 30 MPH
					Δ= 65° 42' 07.85"	R= 940.00
	PI	1515+91.65	316902.6721	1476443.3163	Δ_c= 57° 10' 07.56"	L_C= 937.92
	TS	1509+14.13	317309.1970	1475901.3055	T_c= 512.17	L_{S1}= 140.00
SB 264	SC	1510+54.13	317222.4624	1476011.1574	T_{S1}= 677.52	L_{S2}= 140.00
	CS	1519+92.04	316378.7195	1476322.8971	θ_{S1}= 04° 16' 00.15"	E_a= 3.75
	ST	1521+32.04	316241.3965	1476295.8283	T_{S2}= 677.52	E_u= 2.99
					θ_{S2}= 04° 16' 00.15"	V= 40 MPH
						R= 10000.00
	PI	1541+43.62	314278.0551	1475857.9334	Δ_c= 01° 25' 11.12"	L_C= 247.79
SB 266	PC	1540+19.72	314398.9871	1475884.9055	T_c= 123.90	E_a= 0.00
	PT	1542+67.51	314157.8284	1475827.9732		E_u= 1.20
						V= 55 MPH
						R= 28015.75
	PI	1565+08.25	311983.5876	1475286.1576	Δ_c= 00° 24' 39.42"	L_C= 200.94
SB 268	PC	1564+07.78	312081.0770	1475310.4518	T_c= 100.47	E_a= 0.00
	PT	1566+08.72	311885.9264	1475262.5634		E_u= 0.43
						V= 55 MPH
	POE	1570+05.00	311500.7271	1475169.5018		

TRACK ALIGNMENT DATA - NB (NORTHBOUND)

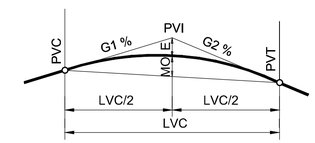
CURVE NUMBER	POINT	STATION	NORTH COORDINATE	EAST COORDINATE	DATA	
	POB	1500+00.00	318060.9218	1475466.3849		
					Δ= 34° 50' 59.48"	R= 550.00
	PI	1399+26.03	318231.7513	1475434.2864	Δ_c= 23° 23' 26.52"	L_C= 224.53
NB 260* (EXIST) (SEE NOTE 5, 6, 7 & 8)	TS	1396+98.14	318439.3676	1475528.2548	T_c= 113.85	L_{S1}= 110.00
	SC	1398+08.14	318337.7436	1475486.2810	T_{S1}= 227.89	L_{S2}= 110.00
	CS	1400+32.67	318116.3925	1475459.3893	θ_{S1}= 05° 43' 46.48"	E_a= 3.50
	ST	1500+54.08	318007.6743	1475475.8088	T_{S2}= 227.89	E_u= 2.98
					θ_{S2}= 05° 43' 46.48"	V= 30 MPH
					Δ= 42° 37' 51.25"	R= 650.00
	PI	1504+79.88	317589.9656	1475553.2120	Δ_c= 31° 10' 18.29"	L_C= 353.63
	TS	1501+60.85	317903.6527	1475495.0845	T_c= 181.31	L_{S1}= 130.00
NB 262	SC	1502+90.85	317776.7455	1475523.0049	T_{S1}= 319.03	L_{S2}= 130.00
	CS	1506+44.48	317479.9325	1475707.1337	θ_{S1}= 05° 43' 46.48"	E_a=3.00
	ST	1507+74.48	317398.5442	1475808.4300	T_{S2}= 319.03	E_u= 2.48
					θ_{S2}= 05° 43' 46.48"	V= 30 MPH
					Δ= 65° 42' 07.85"	R= 955.75
	PI	1516+01.82	316909.1697	1476460.9025	Δ_c= 57° 18' 33.80"	L_C= 955.98
	TS	1509+14.13	317321.7915	1475910.7628	T_c= 522.28	L_{S1}= 140.00
NB 264	SC	1510+54.13	317235.1011	1476020.6511	T_{S1}= 687.69	L_{S2}= 140.00
	CS	1520+10.11	316375.2896	1476338.3277	θ_{S1}= 04° 11' 47.02"	E_a= 3.75
	ST	1521+50.11	316237.9765	1476311.2026	T_{S2}= 687.69	E_u= 2.88
					θ_{S2}= 04° 16' 00.15"	V= 40 MPH
						R= 10015.75
	PI	1541+43.82	314274.4360	1475873.2632	Δ_c= 01° 25' 11.12"	L_C= 248.18
NB 266	PC	1540+19.72	314395.5585	1475900.2778	T_c= 124.10	E_a= 0.00
	PT	1542+67.91	314154.0201	1475843.2558		E_u= 1.20
						V= 55 MPH
						R= 28000.00
	PI	1565+08.19	311979.8340	1475301.4539	Δ_c= 00° 24' 39.4192"	L_C= 200.83
NB 268	PC	1564+07.78	312077.2686	1475325.7344	T_c= 100.41	E_a= 0.00
	PT	1566+08.61	311882.2277	1475277.8729		E_u= 0.43
						V= 55 MPH
	POE	1570+05.00	311497.0284	1475184.8114		

TRACK ALIGNMENT DATA - TT (TEST TRACK)

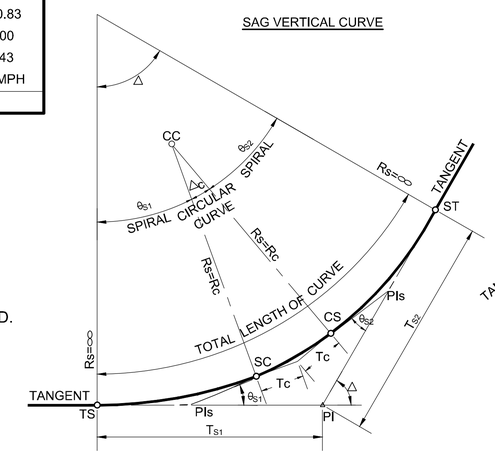
CURVE NUMBER	POINT	STATION	NORTH COORDINATE	EAST COORDINATE	DATA	
	POB	64+10.09	316951.0372	1476371.2835		
					Δ= 13° 10' 40.70"	R= 2500.00
	PI	69+88.77	316372.3668	1476374.6435	Δ_c= 09° 58' 09.87"	L_C= 435.00
	TS	66+29.96	316731.1696	1476372.5601	T_c= 218.05	L_{S1}= 140.00
TT 01	SC	67+69.96	316591.1753	1476372.0664	T_{S1}= 358.81	L_{S2}= 140.00
	CS	72+04.96	316159.3138	1476324.7217	θ_{S1}= 01° 36' 15.41"	E_a= 2.50
	ST	73+44.96	316022.5376	1476294.8733	T_{S2}= 358.81	E_u= 2.29
					θ_{S2}= 01° 36' 15.41"	V= 55 MPH
						R= 10000.00
	PI	88+10.15	314594.0132	1475969.1327	Δ_c= 01° 08' 51.61"	L_C= 200.31
TT 02	PC	87+09.99	314691.6630	1475991.3994	T_c= 100.16	E_a= 0.00
	PT	89+10.30	314496.8290	1475944.9146		E_u= 1.20
						V= 55 MPH
	POE	110+27.76	312442.2030	1475432.9068		



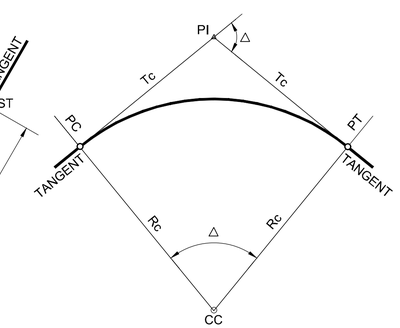
SAG VERTICAL CURVE



CREST VERTICAL CURVE



CIRCULAR CURVE WITH SPIRAL



SIMPLE CIRCULAR CURVE

NOTES:

1. THE SOUTHBOUND (SB) TRACK (OUTBOUND) IS THE PRIMARY CONTROL ALIGNMENT AND IS THE BASIS FOR LOCATING ALL FACILITIES ALONG THE ROUTE, UNLESS OTHERWISE NOTED.
2. ALL HORIZONTAL AND VERTICAL DISTANCES ARE IN FEET AND/OR DECIMALS OF A FOOT EXCEPT AS NOTED OTHERWISE ON PLANS.
3. E_a AND E_u ARE IN INCHES AND/OR DECIMALS OF AN INCH.
4. LENGTH OF CURVES AND STATIONING SHALL BE COMPUTED BASED ON THE ARC DEFINITION.
5. OMF SOUTH TRACKS START IN SPIRALS OF EXISTING CURVE SB 260 AND NB 260. ALL CURVE SB 260 AND NB 260 INFORMATION IS PROVIDED FOR EASE OF LAYOUT.
6. FWLE INTERIM TAIL TRACKS CURVE SB 260 AND NB 260 ARE BUILT WITH INTERIM RAIL SHIMS TO PROVIDE Ea=0.00". OMF SOUTH PROJECT WILL REMOVE THESE INTERIM SHIMS TO PROVIDE ACTUAL SUPERELEVATION Ea=3.50" FOR CURVE SB 260 AND NB 260.
7. REFER TO RTA/CN 0009-17 F200 FWLE PROJECT PACKAGE #CW.01 TRACK IFC DRAWINGS L05-KAD024 TO L05-KAD027 FOR INTERIM SHIM DETAILS AND TABLES.
8. OMF SOUTH PROJECT USES DIFFERENT PROJECT COORDINATES THAN FWLE. DUE TO THESE DIFFERENCES, THE ALIGNMENT GEOMETRY BETWEEN THE TWO PROJECTS WILL NOT BE EXACTLY THE SAME. REFER TO PROJECT DATUM MEMORANDUM FOR TRANSLATION BETWEEN THE TWO PROJECTS.

NOT FOR CONSTRUCTION

Refer to the plan set COVER drawing for disclaimers regarding this drawing.

REFERENCE CONCEPT DRAWINGS

No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY: S. LIU
DRAWN BY: A. SCHEPPE
CHECKED BY: M. PETERSON
APPROVED BY: P. LOPEZ-HILFIKER

AHJ:

PRELIMINARY

SUBMITTED BY: PABLO LOPEZ-HILFIKER
DATE: 2/27/2024
REVIEWED BY:
DATE:

LINE IS 1" AT FULL SCALE

PACKAGE #

SCALE: NTS
FILENAME: OMFS-S08-KAS001
CONTRACT No.: AE-0030-17
DATE: 2/27/2024

SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH

TRACKWORK
MAINLINE AND TEST TRACK
ALIGNMENT DATA TABLES

DRAWING No.: S08-KAS001
FACILITY ID: S08
SHEET No.:
REV: 0

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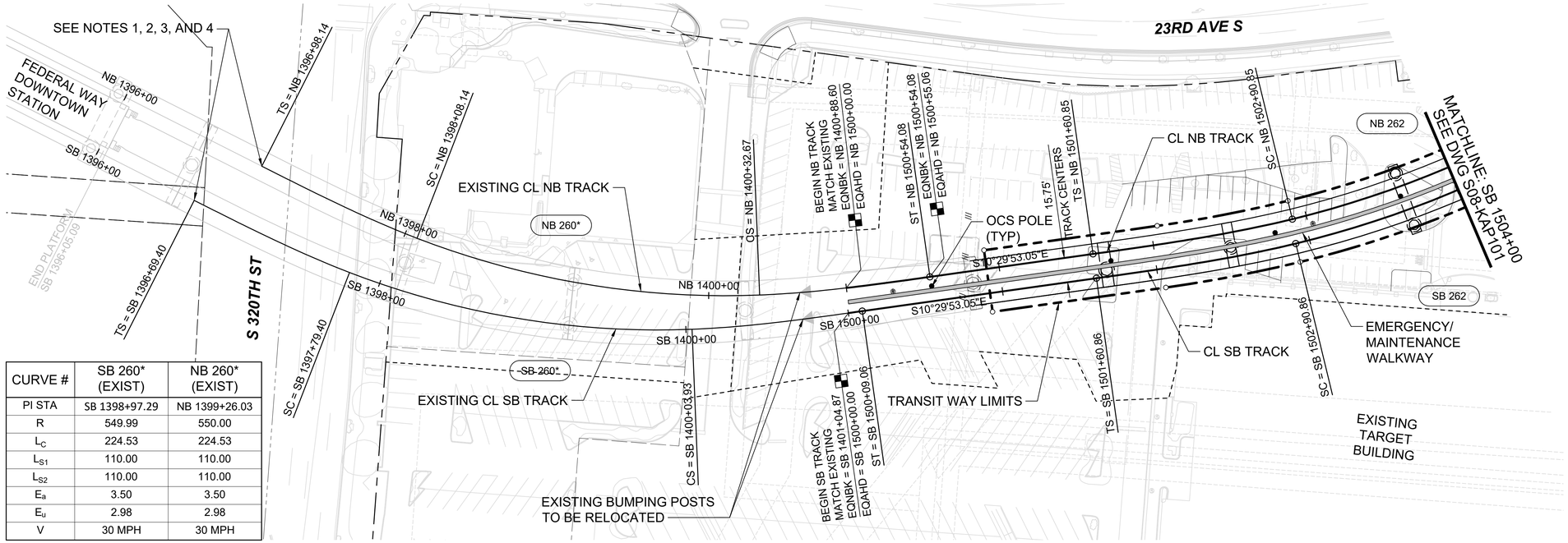
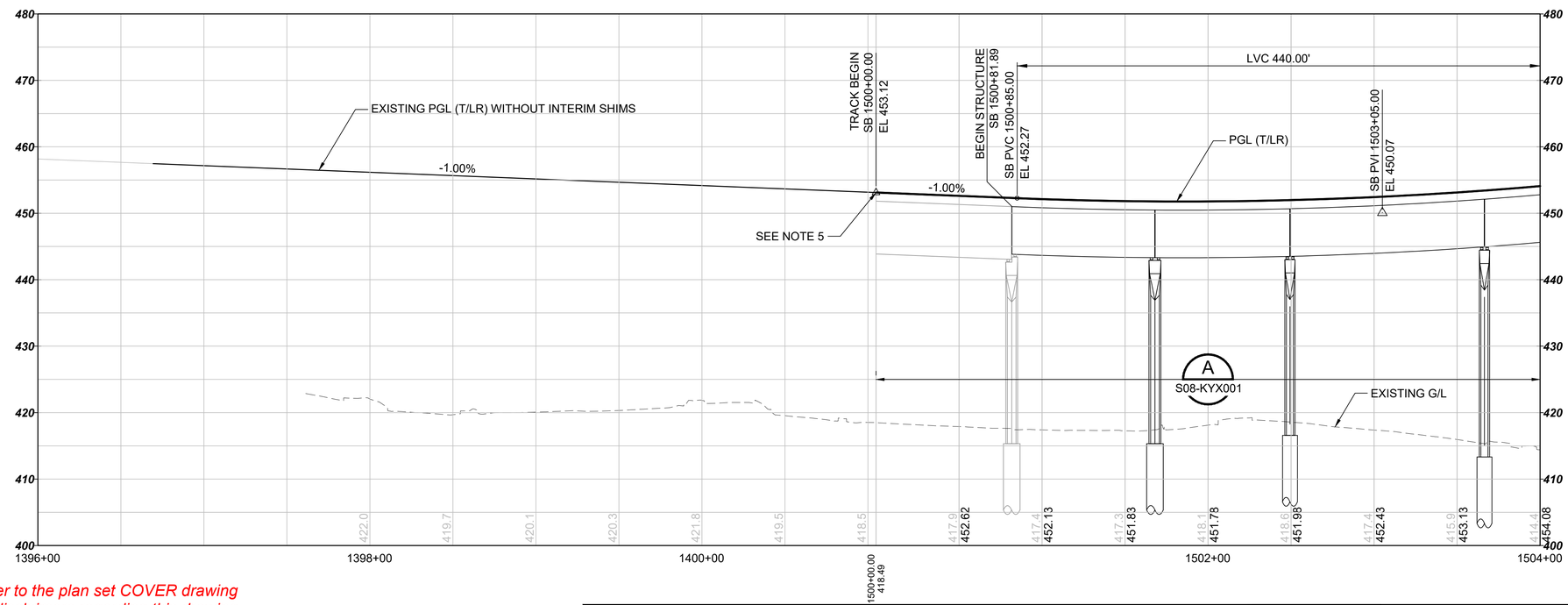


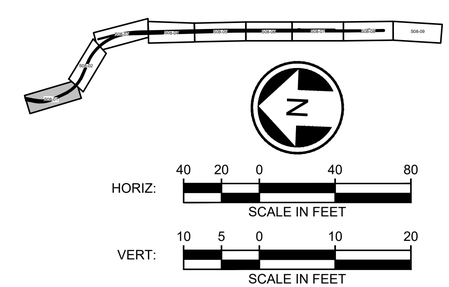
CURVE #	SB 260* (EXIST)	NB 260* (EXIST)
PI STA	SB 1398+97.29	NB 1399+26.03
R	549.99	550.00
L_C	224.53	224.53
L_{S1}	110.00	110.00
L_{S2}	110.00	110.00
E_a	3.50	3.50
E_u	2.98	2.98
V	30 MPH	30 MPH



NOTES:

1. FWLE INTERIM TAIL TRACKS CURVE SB 260 AND NB 260 ARE BUILT WITH INTERIM RAIL SHIMS TO PROVIDE Ea=0.00". OMF SOUTH PROJECT WILL REMOVE THESE INTERIM SHIMS TO PROVIDE ACTUAL SUPERELEVATION Ea=3.50" FOR CURVE SB 260 AND NB 260.
2. REFER TO RTA/CN 0009-17 F200 FWLE PROJECT PACKAGE #CW.01 TRACK IFC DRAWINGS L05-KAD024 TO L05-KAD027 FOR INTERIM SHIM DETAILS AND TABLES.
3. OMF SOUTH PROJECT WILL REMOVE FWLE TAIL TRACK MAINTENANCE WALKWAY ON RAISED GRATING AND LANDING EXTENSION TO PROVIDE ADEQUATE CLEARANCE ENVELOPE. REFER TO RTA/CN 0009-17 F200 FWLE PROJECT PACKAGE #CW.01 TRACK IFC DRAWINGS L15-KAP314, L15-KAP402, L05-KAD001, L05-KAD001C, L05-KAD002, AND L05-KAD004 FOR DETAILS.
4. OMF SOUTH PROJECT USES DIFFERENT PROJECT COORDINATES THAN FWLE. DUE TO THESE DIFFERENCES, THE ALIGNMENT GEOMETRY BETWEEN THE TWO PROJECTS WILL NOT BE EXACTLY THE SAME. REFER TO PROJECT DATUM MEMORANDUM FOR TRANSLATION BETWEEN THE TWO PROJECTS.
5. TRACK TIE-IN ELEVATION TO BE VERIFIED WITH FWLE AS-BUILT DRAWINGS IN THE FINAL DESIGN PHASE.

CURVE #	SB 262	NB 262
PI STA	SB 1504+86.02	NB 1504+79.88
R	665.75	650.00
L_C	365.35	353.63
L_{S1}	130.00	130.00
L_{S2}	130.00	130.00
E_a	3.00	3.00
E_u	2.35	2.48
V	30 MPH	30 MPH



NOT FOR CONSTRUCTION

Refer to the plan set COVER drawing for disclaimers regarding this drawing.

AHJ:

PACKAGE #

REFERENCE CONCEPT DRAWINGS

No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY: S. LIU
DRAWN BY: S. LIU
CHECKED BY: M. PETERSON
APPROVED BY: P. LOPEZ-HILFIKER

PRELIMINARY — HSIAO-HSUAN LIU, STATE OF WASHINGTON, REGISTERED PROFESSIONAL ENGINEER

SUBMITTED BY: PABLO LOPEZ-HILFIKER
DATE: 2/27/2024
REVIEWED BY:
DATE:

LINE IS 1" AT FULL SCALE

SCALE: H: 1"=40'; V: 1"=10'
FILENAME: OMFS-S08-KAP100-108
CONTRACT No.: AE-0030-17
DATE: 2/27/2024

SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH

TRACKWORK
TRACK PLAN AND PROFILE
SB STA 1500+00 TO SB STA 1504+00

DRAWING No.: S08-KAP100
FACILITY ID: S08
SHEET No.:
REV: 0

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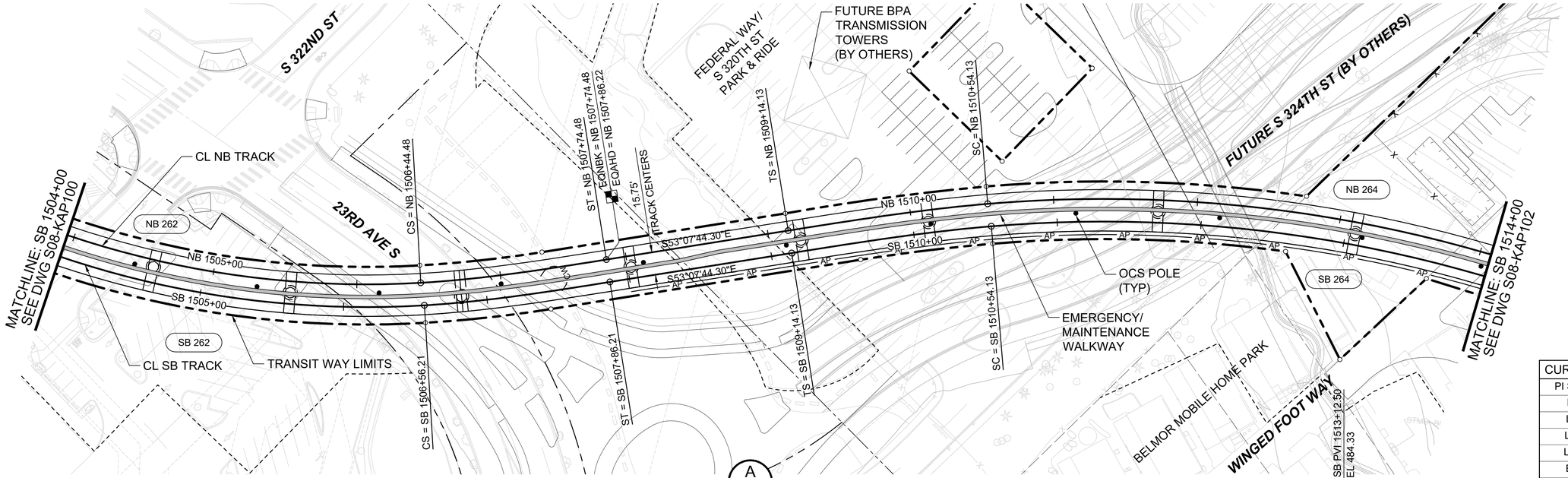
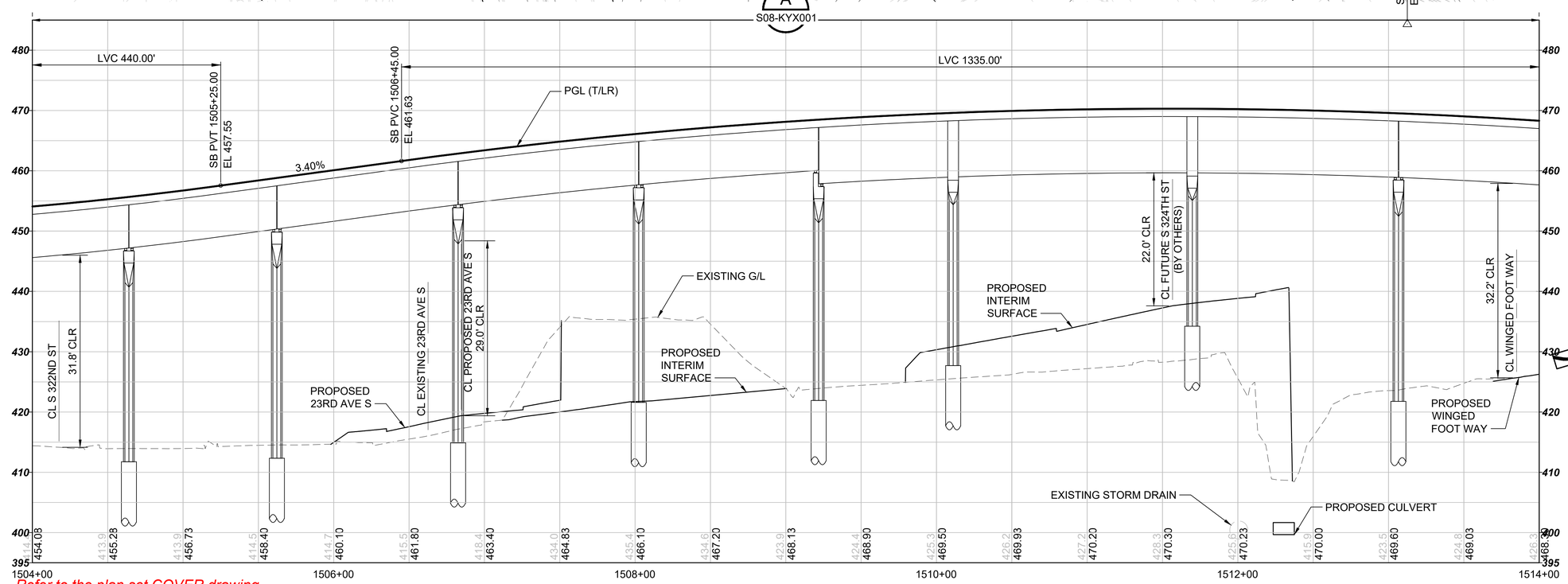
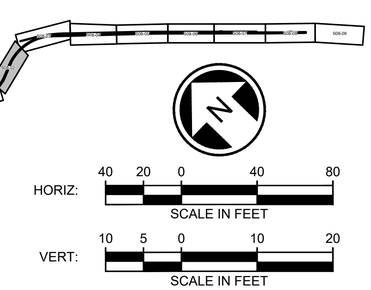


CURVE #	SB 264	NB 264
PI STA	SB 1515+91.65	NB 1516+01.82
R	940.00	955.75
L_C	937.92	955.98
L_{S1}	140.00	140.00
L_{S2}	140.00	140.00
E_a	3.75	3.75
E_u	2.99	2.88
V	40 MPH	40 MPH





NOT FOR CONSTRUCTION

Refer to the plan set COVER drawing for disclaimers regarding this drawing.

AHJ:

PACKAGE #

REFERENCE CONCEPT DRAWINGS

No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY: S. LIU
DRAWN BY: S. LIU
CHECKED BY: M. PETERSON
APPROVED BY: P. LOPEZ-HILFIKER

HSIAO-HSUAN LIU
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

HDR

SUBMITTED BY: PABLO LOPEZ-HILFIKER
DATE: 2/27/2024
REVIEWED BY:
DATE:

LINE IS 1" AT FULL SCALE

SOUNDTRANSIT

SCALE: H: 1"=40'; V: 1"=10'
FILENAME: OMFS-S08-KAP100-108
CONTRACT No.: AE-0030-17
DATE: 2/27/2024

SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH

TRACKWORK
TRACK PLAN AND PROFILE
SB STA 1504+00 TO SB STA 1514+00

DRAWING No.: S08-KAP101
FACILITY ID: S08
SHEET No.:
REV: 0

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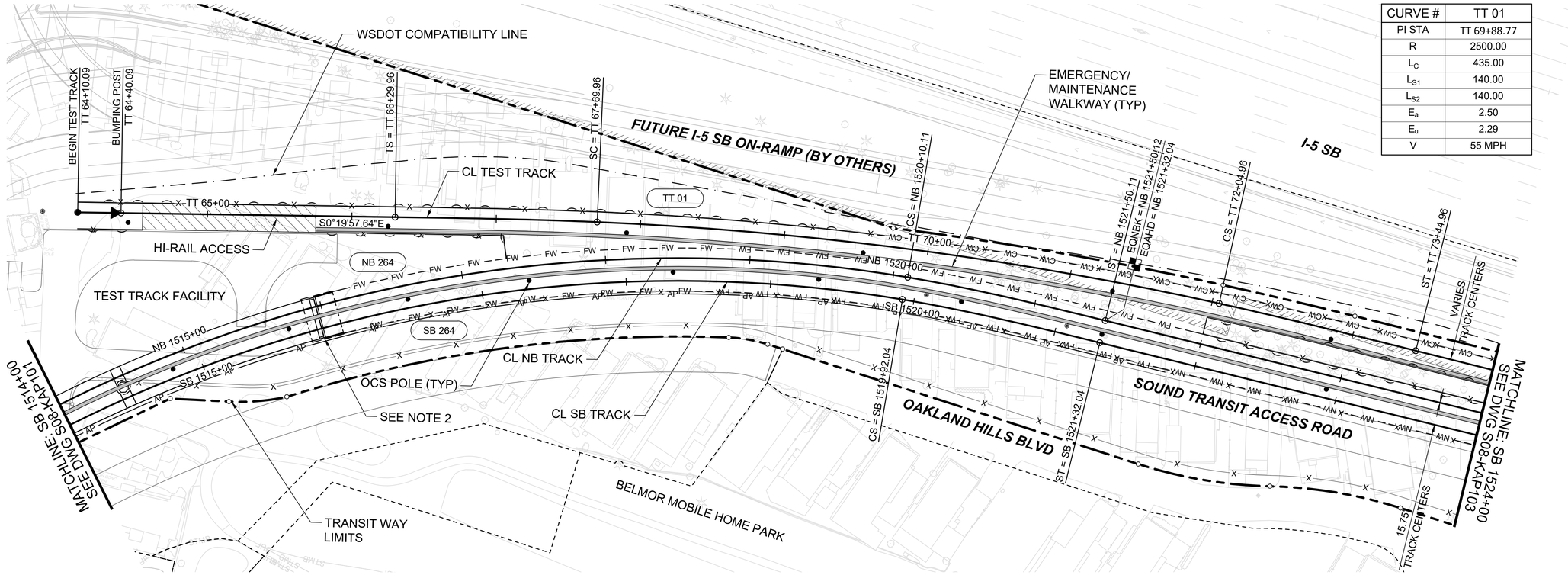
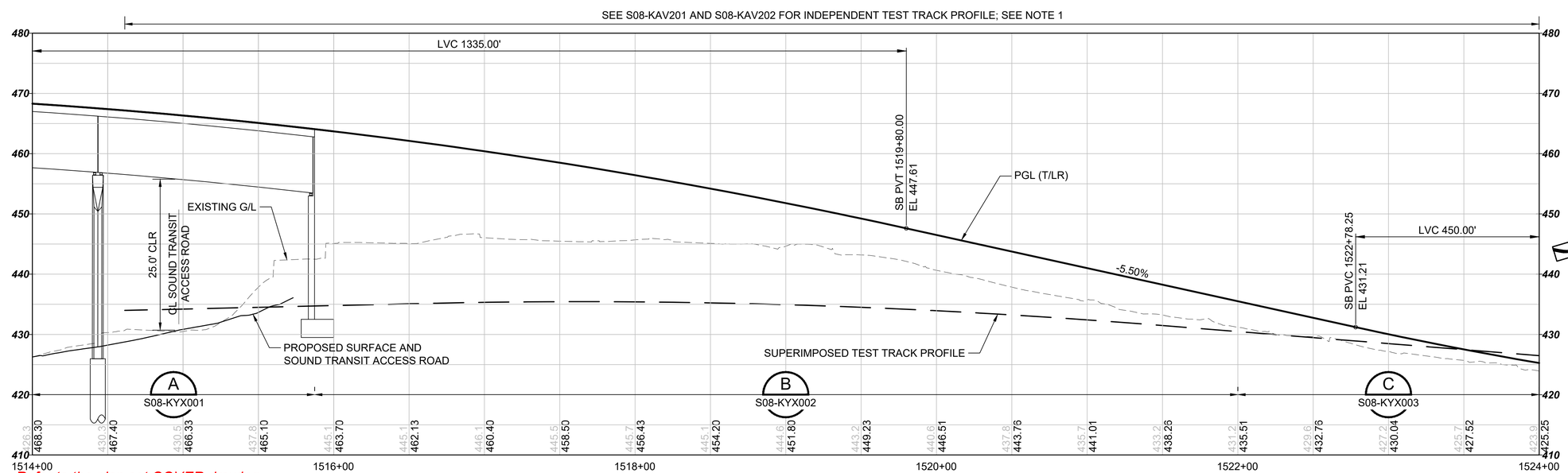
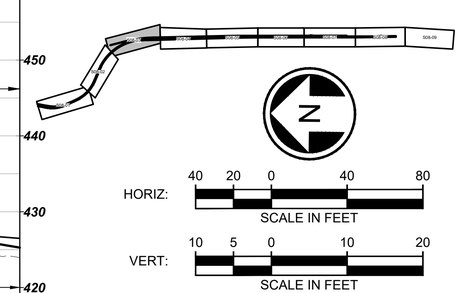
CURVE #	TT 01
PI STA	TT 69+88.77
R	2500.00
L_C	435.00
L_{S1}	140.00
L_{S2}	140.00
E_a	2.50
E_u	2.29
V	55 MPH



NOTES:

1. TEST TRACK (TT) PROFILE IS CONTROLLED INDEPENDENTLY FROM MAINLINE SB TRACK PROFILE BETWEEN TT 64+10.09 AND TT 92+67.51.
2. SEE STRUCTURAL SHEETS STD-SBD008 AND STD-SED011 FOR ABUTMENT AND TRANSITION SLAB DETAILS.





NOT FOR CONSTRUCTION

Refer to the plan set COVER drawing for disclaimers regarding this drawing.

AHJ:

PACKAGE #

REFERENCE CONCEPT DRAWINGS

No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY: S. LIU
DRAWN BY: S. LIU
CHECKED BY: M. PETERSON
APPROVED BY: P. LOPEZ-HILFIKER

HSIAO-HSUAN LIU STATE OF WASHINGTON 45850 REGISTERED PROFESSIONAL ENGINEER PRELIMINARY

HDR

SUBMITTED BY: PABLO LOPEZ-HILFIKER
DATE: 2/27/2024
REVIEWED BY:
DATE:

LINE IS 1" AT FULL SCALE

SOUNDTRANSIT

SCALE: H: 1"=40'; V: 1"=10'
FILENAME: OMFS-S08-KAP100-108
CONTRACT No.: AE-0030-17
DATE: 2/27/2024

SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH

TRACKWORK
TRACK PLAN AND PROFILE
SB STA 1514+00 TO SB STA 1524+00

DRAWING No.: S08-KAP102
FACILITY ID: S08
SHEET No.:
REV: 0

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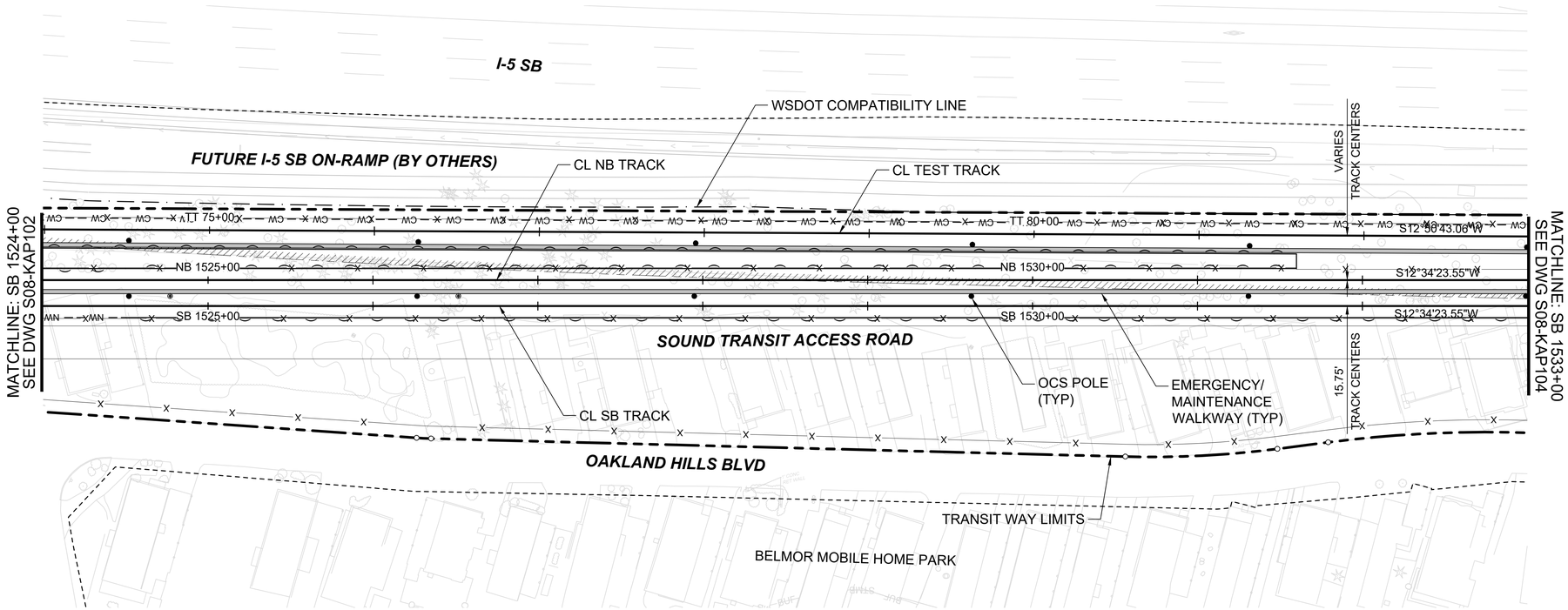
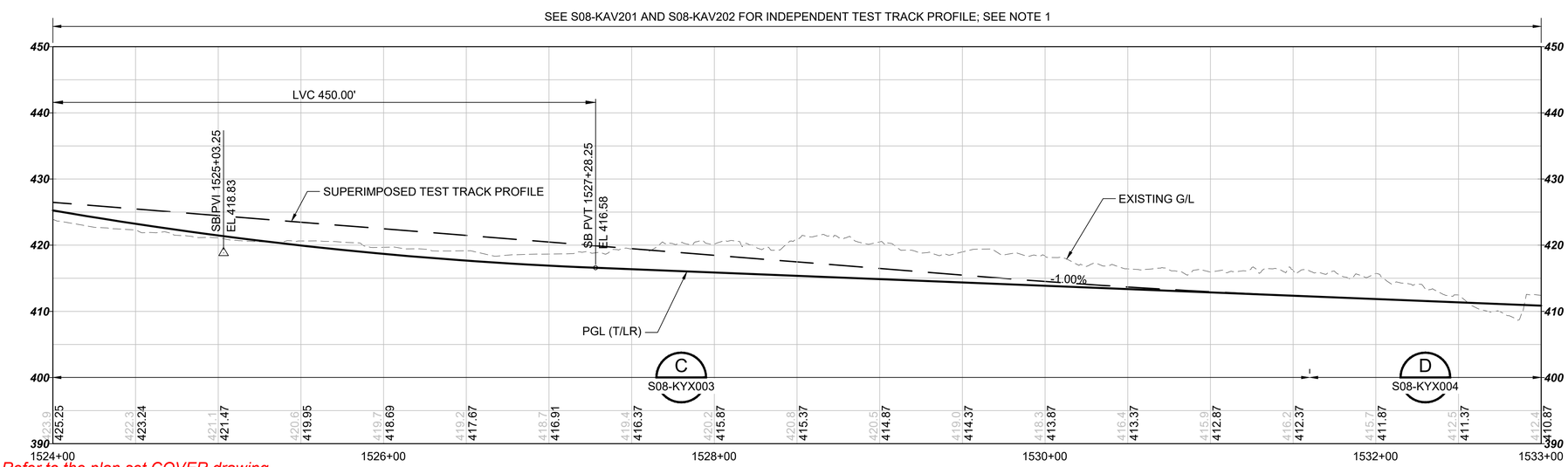
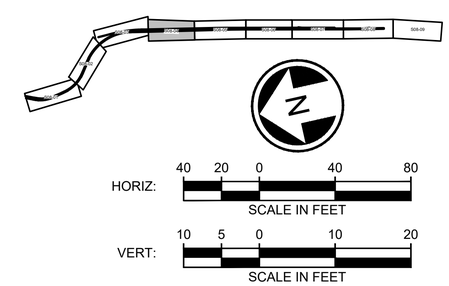




NOTE:

1. TEST TRACK (TT) PROFILE IS CONTROLLED INDEPENDENTLY FROM MAINLINE SB TRACK PROFILE BETWEEN TT 64+10.09 AND TT 92+67.51.



NOT FOR CONSTRUCTION

Refer to the plan set COVER drawing for disclaimers regarding this drawing.

AHJ:

PACKAGE #

REFERENCE CONCEPT DRAWINGS

No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY: S. LIU
DRAWN BY: S. LIU
CHECKED BY: M. PETERSON
APPROVED BY: P. LOPEZ-HILFIKER

HSIAO-HSUAN LIU
STATE OF WASHINGTON
PROFESSIONAL ENGINEER
PRELIMINARY

HDR

SUBMITTED BY: PABLO LOPEZ-HILFIKER
DATE: 2/27/2024
REVIEWED BY:
DATE:

LINE IS 1" AT FULL SCALE

SOUNDTRANSIT

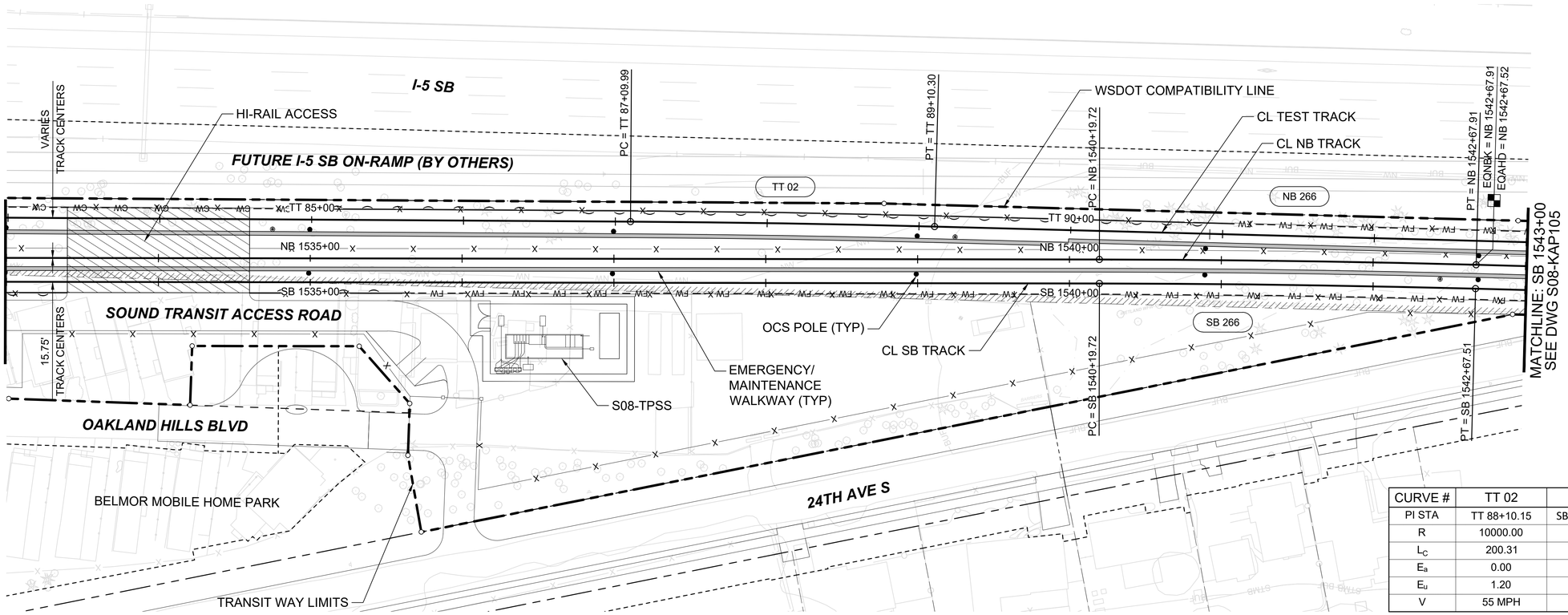
SCALE: H: 1"=40'; V: 1"=10'
FILENAME: OMFS-S08-KAP100-108
CONTRACT No.: AE-0030-17
DATE: 2/27/2024

SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH

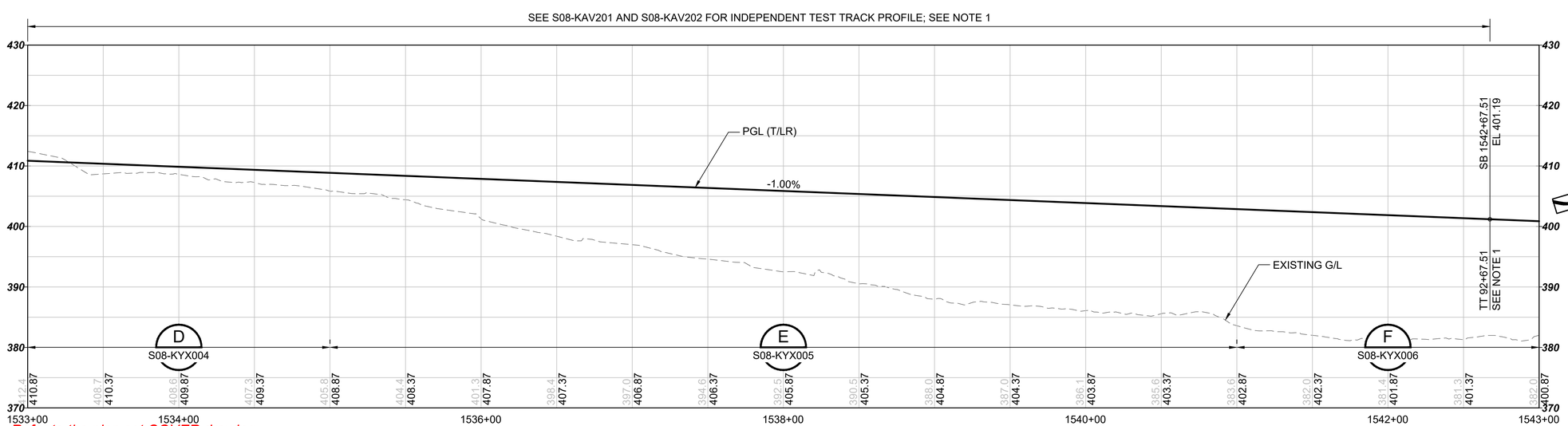
TRACKWORK
TRACK PLAN AND PROFILE
SB STA 1524+00 TO SB STA 1533+00

DRAWING No.: S08-KAP103
FACILITY ID: S08
SHEET No.:
REV: 0

02/23/24 | 11:49 AM | HSLIU
C:\PW\WORKING\WEST01\D2780548\OMFS-S08-KAP100-108.DWG

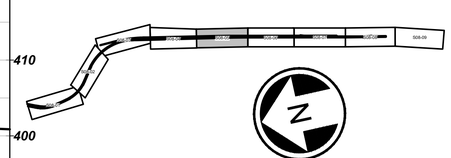


CURVE #	TT 02	SB 266	NB 266
PI STA	TT 88+10.15	SB 1541+43.62	NB 1541+43.82
R	10000.00	10000.00	10015.75
L_C	200.31	247.79	248.18
E_a	0.00	0.00	0.00
E_u	1.20	1.20	1.20
V	55 MPH	55 MPH	55 MPH



NOTE:

1. TEST TRACK (TT) PROFILE IS CONTROLLED INDEPENDENTLY FROM MAINLINE SB TRACK PROFILE BETWEEN TT 64+10.09 AND TT 92+67.51.



HORIZ: 40 20 0 40 80 SCALE IN FEET

VERT: 10 5 0 10 20 SCALE IN FEET

NOT FOR CONSTRUCTION

Refer to the plan set COVER drawing for disclaimers regarding this drawing.

AHJ:

PACKAGE #

REFERENCE CONCEPT DRAWINGS

No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY: S. LIU
DRAWN BY: S. LIU
CHECKED BY: M. PETERSON
APPROVED BY: P. LOPEZ-HILFIKER

PRELIMINARY — HSIAO-HSUAN LIU, STATE OF WASHINGTON, REGISTERED PROFESSIONAL ENGINEER

HDR

SUBMITTED BY: PABLO LOPEZ-HILFIKER
DATE: 2/27/2024
REVIEWED BY:
DATE:

LINE IS 1" AT FULL SCALE

SOUNDTRANSIT

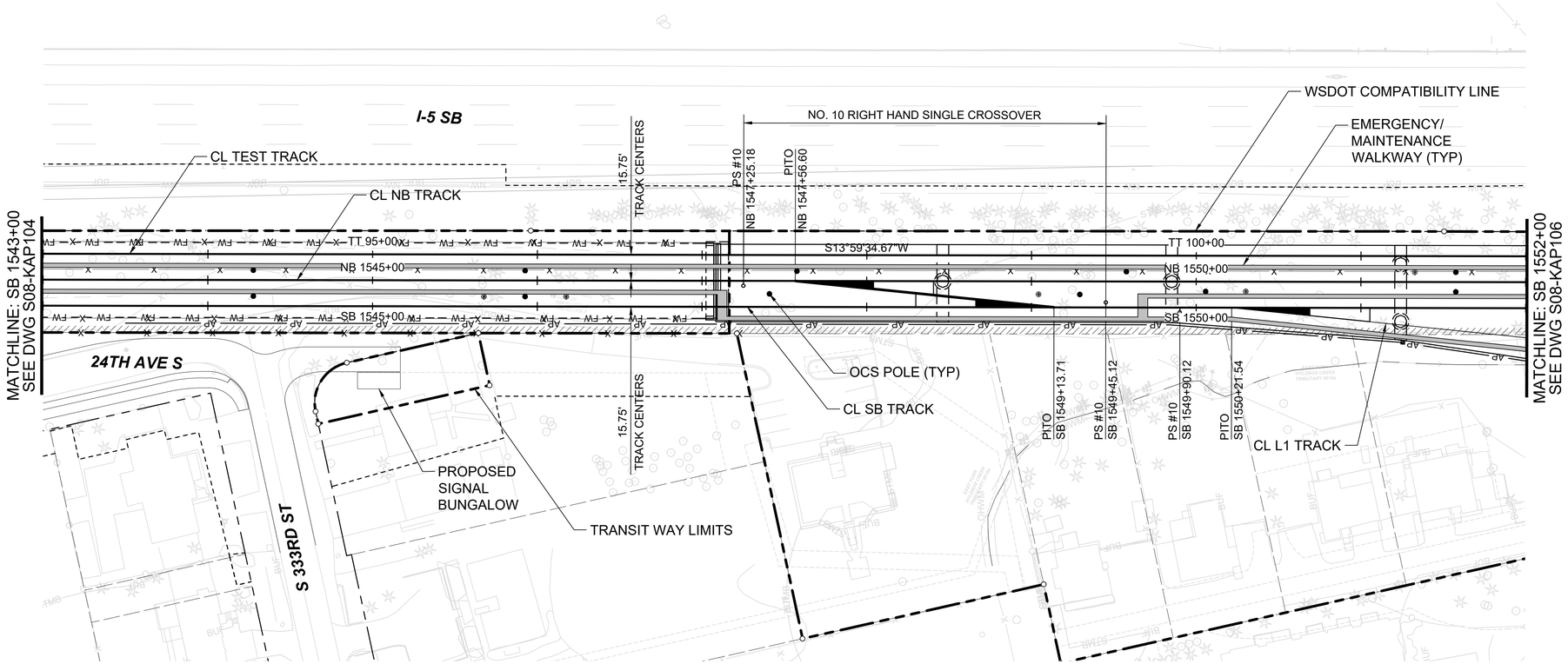
SCALE: H: 1"=40'; V: 1"=10'
FILENAME: OMFS-S08-KAP100-108
CONTRACT No.: AE-0030-17
DATE: 2/27/2024

SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH

TRACKWORK
TRACK PLAN AND PROFILE
SB STA 1533+00 TO SB STA 1543+00

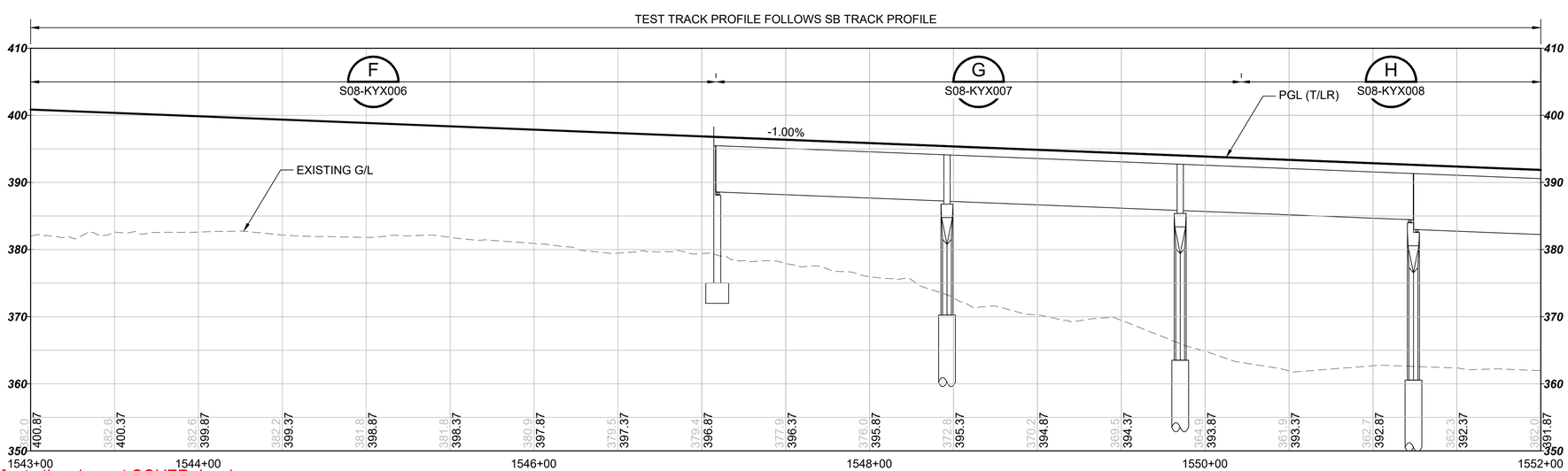
DRAWING No.: S08-KAP104
FACILITY ID: S08
SHEET No.:
REV: 0

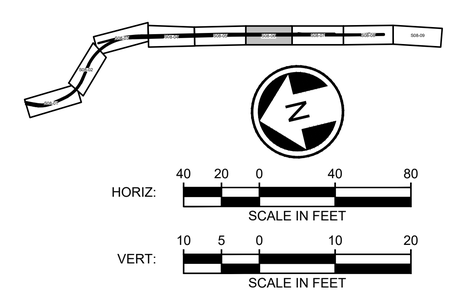
02/23/24 | 11:50 AM | HSLIU
C:\PWWORKING\WEST01\D2780548\OMFS-S08-KAP100-108.DWG



NOTE:

1. SEE SHEETS M08-KAP101 AND M08-KAP102 FOR LEAD TRACK L1 DESIGN.





NOT FOR CONSTRUCTION

Refer to the plan set COVER drawing for disclaimers regarding this drawing.

AHJ:

PACKAGE #

REFERENCE CONCEPT DRAWINGS

No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY: S. LIU
DRAWN BY: S. LIU
CHECKED BY: M. PETERSON
APPROVED BY: P. LOPEZ-HILFIKER

PRELIMINARY — HSIAO-HSUAN LIU, STATE OF WASHINGTON, 45850, REGISTERED PROFESSIONAL ENGINEER

HDR

SUBMITTED BY: PABLO LOPEZ-HILFIKER
DATE: 2/27/2024
REVIEWED BY:
DATE:

LINE IS 1" AT FULL SCALE

SOUNDTRANSIT

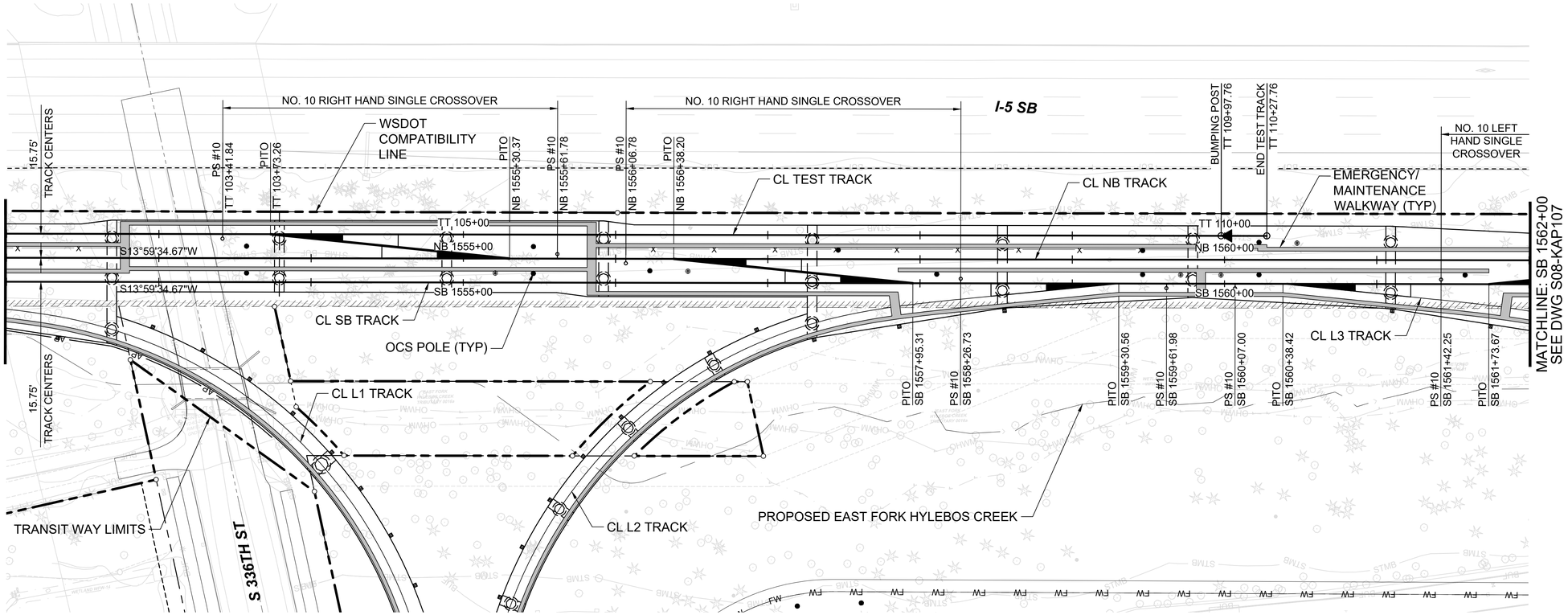
SCALE: H: 1"=40'; V: 1"=10'
FILENAME: OMFS-S08-KAP100-108
CONTRACT No.: AE-0030-17
DATE: 2/27/2024

SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH

TRACKWORK
TRACK PLAN AND PROFILE
SB STA 1543+00 TO SB STA 1552+00

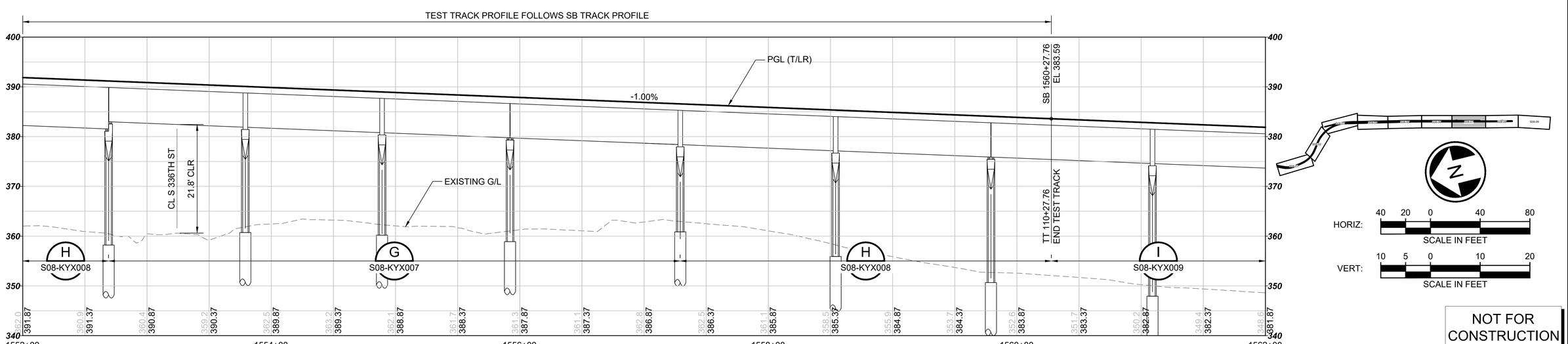
DRAWING No.: S08-KAP105
FACILITY ID: S08
SHEET No.:
REV: 0

02/23/24 | 11:50 AM | HSLIU
C:\PWWORKING\WEST01\D2780548\OMFS-S08-KAP100-108.DWG



NOTE:

1. SEE SHEETS M08-KAP101, M08-KAP102, M08-KAP103, AND M08-KAP104 FOR LEAD TRACKS L1, L2, AND L3 DESIGN.



NOT FOR CONSTRUCTION

Refer to the plan set COVER drawing for disclaimers regarding this drawing.

AHJ:

PACKAGE #

REFERENCE CONCEPT DRAWINGS

No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY: S. LIU
DRAWN BY: S. LIU
CHECKED BY: M. PETERSON
APPROVED BY: P. LOPEZ-HILFIKER

PRELIMINARY — HSIAO-HSUAN LIU, STATE OF WASHINGTON, 45650, REGISTERED PROFESSIONAL ENGINEER

HDR

SUBMITTED BY: PABLO LOPEZ-HILFIKER
DATE: 2/27/2024
REVIEWED BY:
DATE:

LINE IS 1" AT FULL SCALE

SOUNDTRANSIT

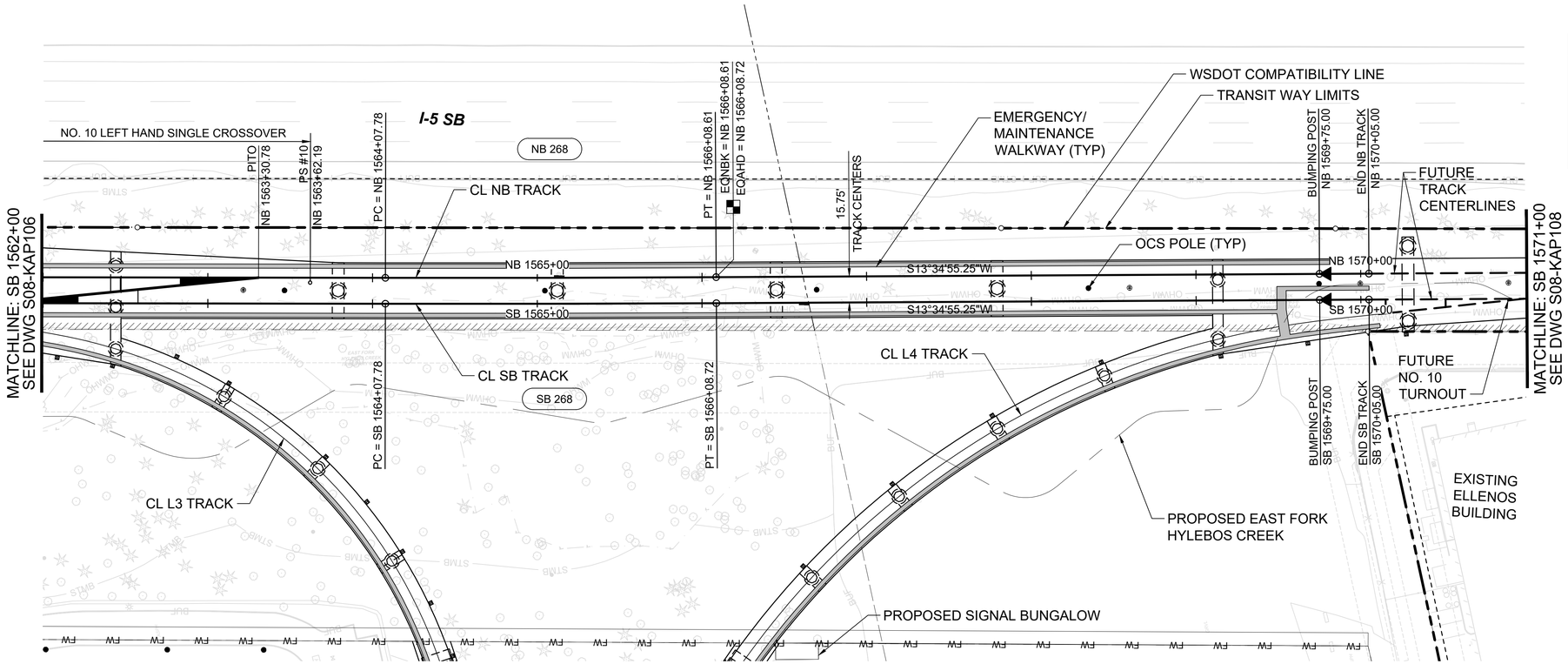
SCALE: H: 1"=40'; V: 1"=10'
FILENAME: OMFS-S08-KAP100-108
CONTRACT No.: AE-0030-17
DATE: 2/27/2024

SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH

TRACKWORK
TRACK PLAN AND PROFILE
SB STA 1552+00 TO SB STA 1562+00

DRAWING No.: S08-KAP106
FACILITY ID: S08
SHEET No.:
REV: 0

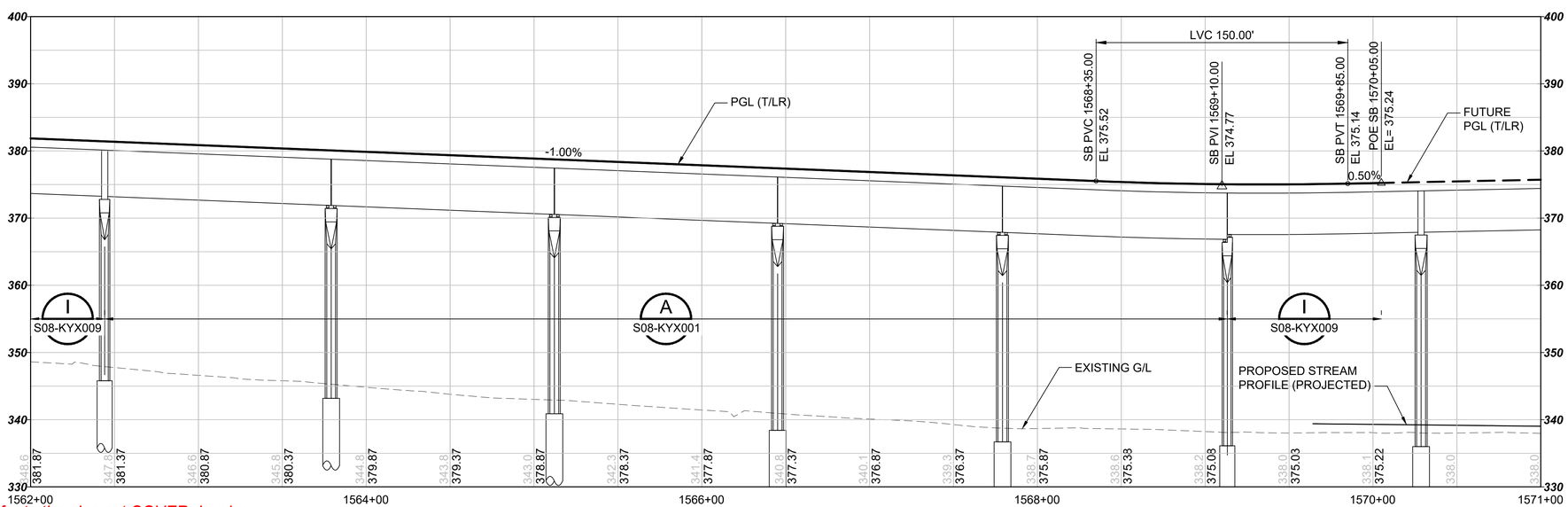
02/23/24 | 11:51 AM | HSLIU
C:\PWWORKING\WEST01\D2780548\OMFS-S08-KAP100-108.DWG

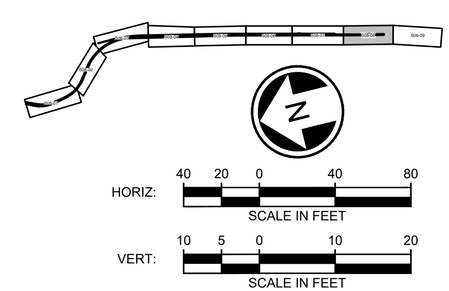


CURVE #	SB 268	NB 268
PI STA	SB 1565+08.25	NB 1563+83.47
R	28015.75	28000.00
L_C	200.94	200.83
E_a	0.00	0.00
E_u	0.43	0.43
V	55 MPH	55 MPH

NOTE:

1. SEE SHEETS M08-KAP104, M08-KAP105, AND M08-KAP106 FOR LEAD TRACKS L3 AND L4 DESIGN.





NOT FOR CONSTRUCTION

Refer to the plan set COVER drawing for disclaimers regarding this drawing.

REFERENCE CONCEPT DRAWINGS

No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY: S. LIU
DRAWN BY: S. LIU
CHECKED BY: M. PETERSON
APPROVED BY: P. LOPEZ-HILFIKER

AHJ:

PRELIMINARY — HSIAO-HSUAN LIU, STATE OF WASHINGTON, 51650, REGISTERED PROFESSIONAL ENGINEER

HDR

SUBMITTED BY: PABLO LOPEZ-HILFIKER
DATE: 2/27/2024
REVIEWED BY:
DATE:

LINE IS 1" AT FULL SCALE

SOUNDTRANSIT

PACKAGE #

SCALE: H: 1"=40'; V: 1"=10'
FILENAME: OMFS-S08-KAP100-108
CONTRACT No.: AE-0030-17
DATE: 2/27/2024

SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH

TRACKWORK
TRACK PLAN AND PROFILE
SB STA 1562+00 TO SB STA 1571+00

DRAWING No.: S08-KAP107
FACILITY ID: S08
SHEET No.:
REV: 0

02/23/24 | 11:52 AM | HSLIU
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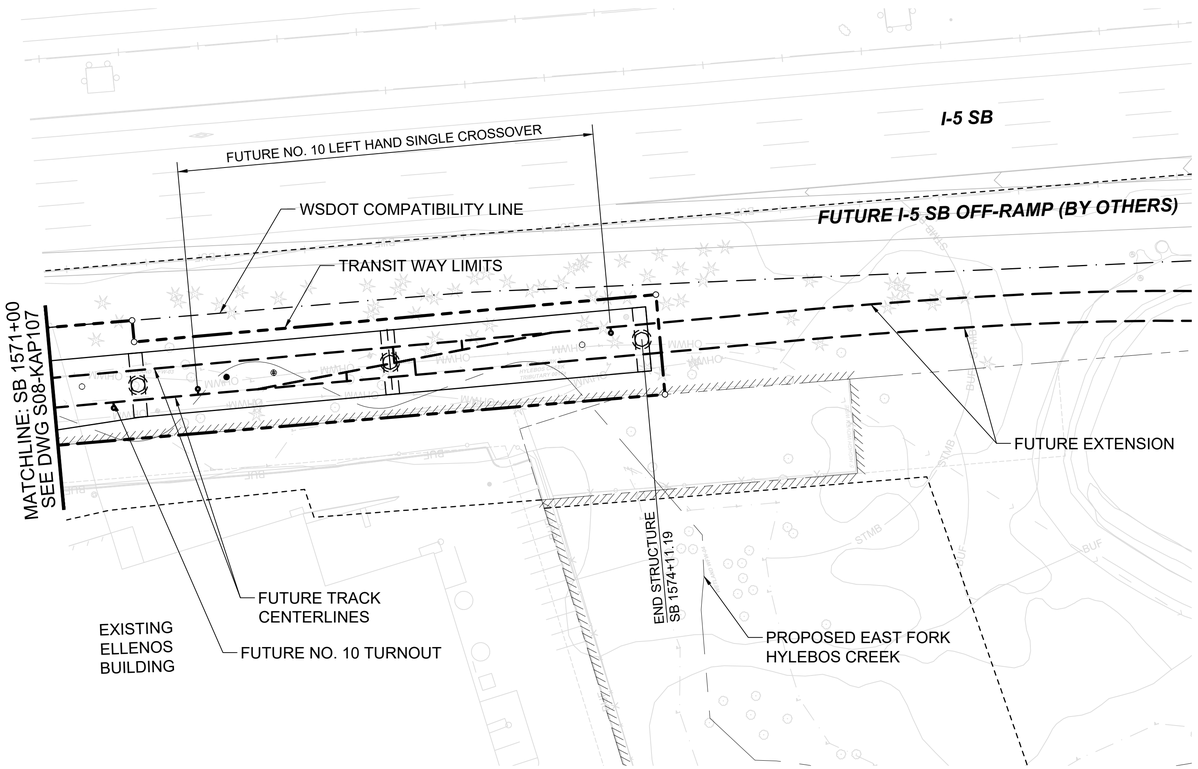
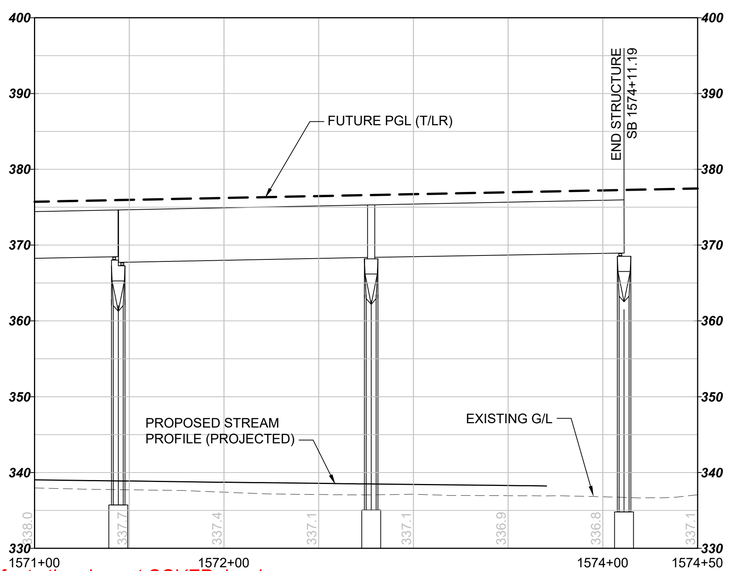
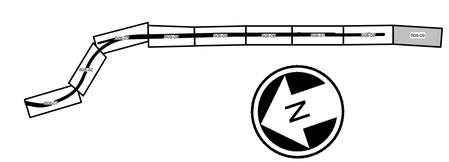


NOTE:

1. SEE SHEETS M08-KAP105 AND M08-KAP106 FOR LEAD TRACK L4 DESIGN.





HORIZ: 40 20 0 40 80 SCALE IN FEET

VERT: 10 5 0 10 20 SCALE IN FEET

NOT FOR CONSTRUCTION

Refer to the plan set COVER drawing for disclaimers regarding this drawing.

AHJ:

PACKAGE #

REFERENCE CONCEPT DRAWINGS

No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY: S. LIU
DRAWN BY: S. LIU
CHECKED BY: M. PETERSON
APPROVED BY: P. LOPEZ-HILFIKER

PRELIMINARY — HSIAO-HSUAN LIU, STATE OF WASHINGTON, 45650, REGISTERED PROFESSIONAL ENGINEER

HDR

SUBMITTED BY: PABLO LOPEZ-HILFIKER
DATE: 2/27/2024
REVIEWED BY:
DATE:

LINE IS 1" AT FULL SCALE

SOUNDTRANSIT

SCALE: H: 1"=40'; V: 1"=10'
FILENAME: OMFS-S08-KAP100-108
CONTRACT No.: AE-0030-17
DATE: 2/27/2024

SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH

TRACKWORK
TRACK PLAN AND PROFILE
SB STA 1571+00 TO SB STA 1574+50

DRAWING No.: S08-KAP108
FACILITY ID: S08
SHEET No.:
REV: 0

02/23/24 | 11:52 AM | HSLIU
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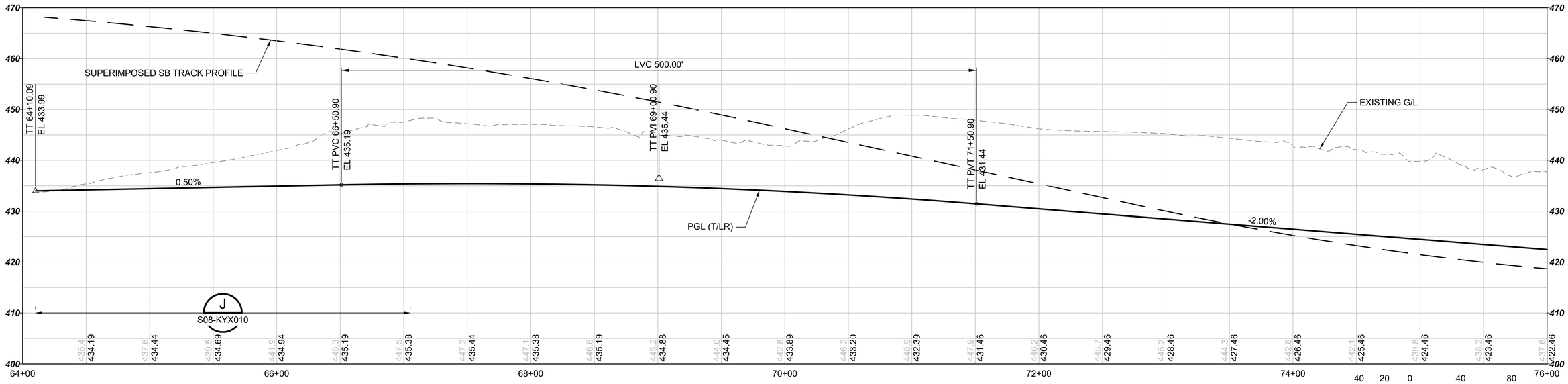
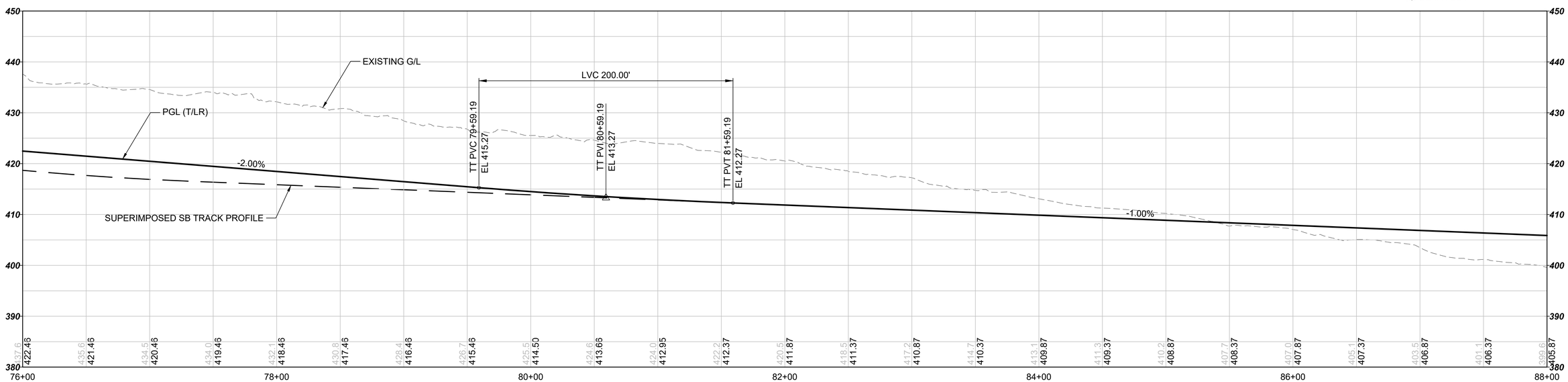


HORIZ: 40 20 0 40 80
SCALE IN FEET

VERT: 10 5 0 10 20
SCALE IN FEET



NOT FOR CONSTRUCTION

Refer to the plan set COVER drawing for disclaimers regarding this drawing.

AHJ:

PACKAGE #

REFERENCE CONCEPT DRAWINGS

No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY: S. LIU
DRAWN BY: S. LIU
CHECKED BY: M. PETERSON
APPROVED BY: P. LOPEZ-HILFIKER

PRELIMINARY — HSIAO-HSUAN LIU — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

HDR

SUBMITTED BY: PABLO LOPEZ-HILFIKER
DATE: 2/27/2024
REVIEWED BY:
DATE:

LINE IS 1" AT FULL SCALE

SOUNDTRANSIT

SCALE: H: 1"=40'; V: 1"=10'
FILENAME: OMFS-S08-KAP100-108
CONTRACT No.: AE-0030-17
DATE: 2/27/2024

SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH

TRACKWORK
TEST TRACK PROFILE
TT STA 64+10 TO TT STA 88+00

DRAWING No.: S08-KAV201
FACILITY ID: S08
SHEET No.:
REV: 0

02/23/24 | 11:39 AM | HSLIU
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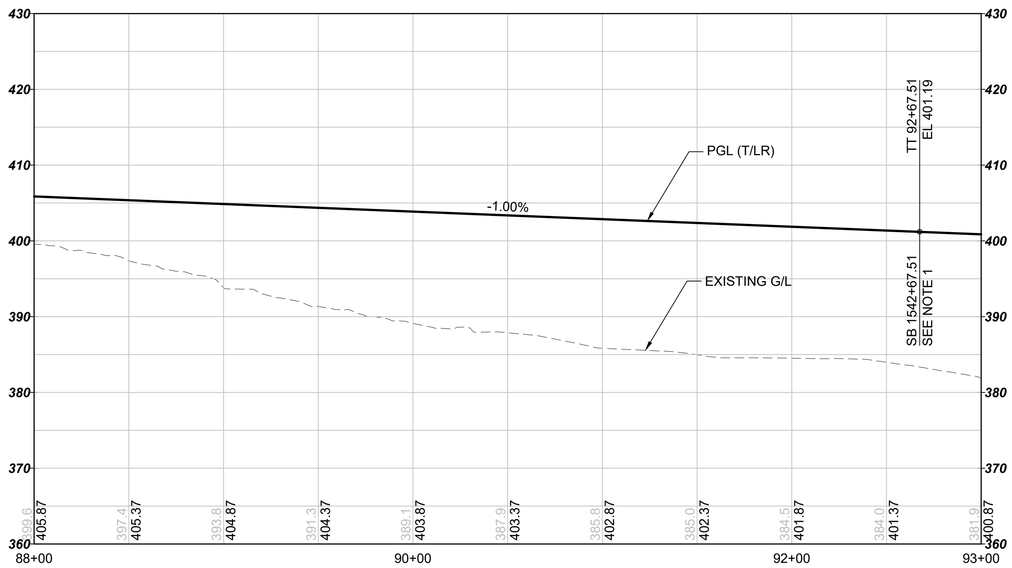


NOTE:

1. TEST TRACK (TT) PROFILE IS CONTROLLED INDEPENDENTLY FROM MAINLINE SB TRACK PROFILE BETWEEN TT 64+10.09 AND TT 92+67.51. FOR TT PROFILE OUTSIDE OF THE LIMITS REFERENCED ABOVE, SEE TRACK PLAN AND SB PROFILE DRAWINGS S08-KAP104, S08-KAP105, AND S08-KAP106.

HORIZ: 40 20 0 40 80
SCALE IN FEET

VERT: 10 5 0 10 20
SCALE IN FEET

NOT FOR CONSTRUCTION

Refer to the plan set COVER drawing for disclaimers regarding this drawing.

AHJ:

PACKAGE #

REFERENCE CONCEPT DRAWINGS

No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY: S. LIU
DRAWN BY: S. LIU
CHECKED BY: M. PETERSON
APPROVED BY: P. LOPEZ-HILFIKER

HSIAO-HSUAN LIU, STATE OF WASHINGTON, 46650, REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

HDR

SUBMITTED BY: PABLO LOPEZ-HILFIKER
DATE: 2/27/2024
REVIEWED BY:
DATE:

LINE IS 1" AT FULL SCALE

SOUNDTRANSIT

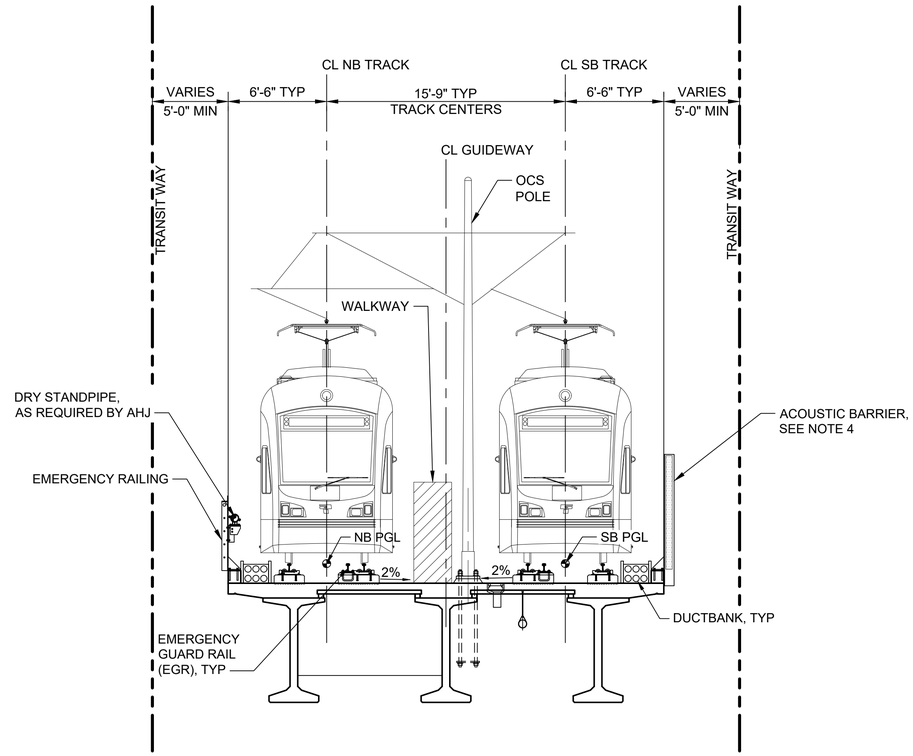
SCALE: H: 1"=40'; V: 1"=10'
FILENAME: OMFS-S08-KAP100-108
CONTRACT No.: AE-0030-17
DATE: 2/27/2024

SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH

TRACKWORK
TEST TRACK PROFILE
TT STA 88+00 TO TT STA 92+68

DRAWING No.: S08-KAV202
FACILITY ID: S08
SHEET No.:
REV: 0

02/23/24 | 11:40 AM | HSLIU
C:\PWWORKING\WEST01\D2780548\OMFS-S08-KAP100-108.DWG



ELEVATED MAINLINE GUIDEWAY DOUBLE TRACK

NOT TO SCALE

A
-

NOTES:

1. MINIMUM VERTICAL CLEARANCE REQUIREMENT OVER ROADWAYS IS 16'-6" FROM ROADWAY TO BOTTOM OF STRUCTURE.
2. STRUCTURES SHOWN ARE INDICATIVE ONLY. SEE STRUCTURES DWGS FOR DETAILS.
3. OCS AND WALKWAY CONFIGURATIONS VARY. FOR OCS LAYOUT, SEE S08-JOP100 TO S08-JOP108. FOR WALKWAY LAYOUT, SEE S08-KAP100 TO S08-KAP108.
4. FOR ACOUSTIC BARRIER LOCATIONS, SEE ACOUSTIC BARRIER AND NOISE WALL SCHEDULE ON SHEET STD-SWS001.
5. PER SOUND TRANSIT REQUIREMENTS MANUAL 522.6.18.2.1, THE WALKWAY CLEARANCE ENVELOPE MUST BE 30 INCHES WIDE BY 80 INCHES TALL ABOVE THE WALKING SURFACE.

NOT FOR CONSTRUCTION

Refer to the plan set COVER drawing for disclaimers regarding this drawing.

REFERENCE CONCEPT DRAWINGS

No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY: S. LIU
DRAWN BY: S. LIU
CHECKED BY: M. PETERSON
APPROVED BY: P. LOPEZ-HILFIKER

AHJ:

PRELIMINARY — HSIAO-HSUAN LIU, STATE OF WASHINGTON, 45150, REGISTERED PROFESSIONAL ENGINEER

HDR

SUBMITTED BY: PABLO LOPEZ-HILFIKER
DATE: 2/27/2024
REVIEWED BY:
DATE:

LINE IS 1" AT FULL SCALE

SOUNDTRANSIT

PACKAGE #

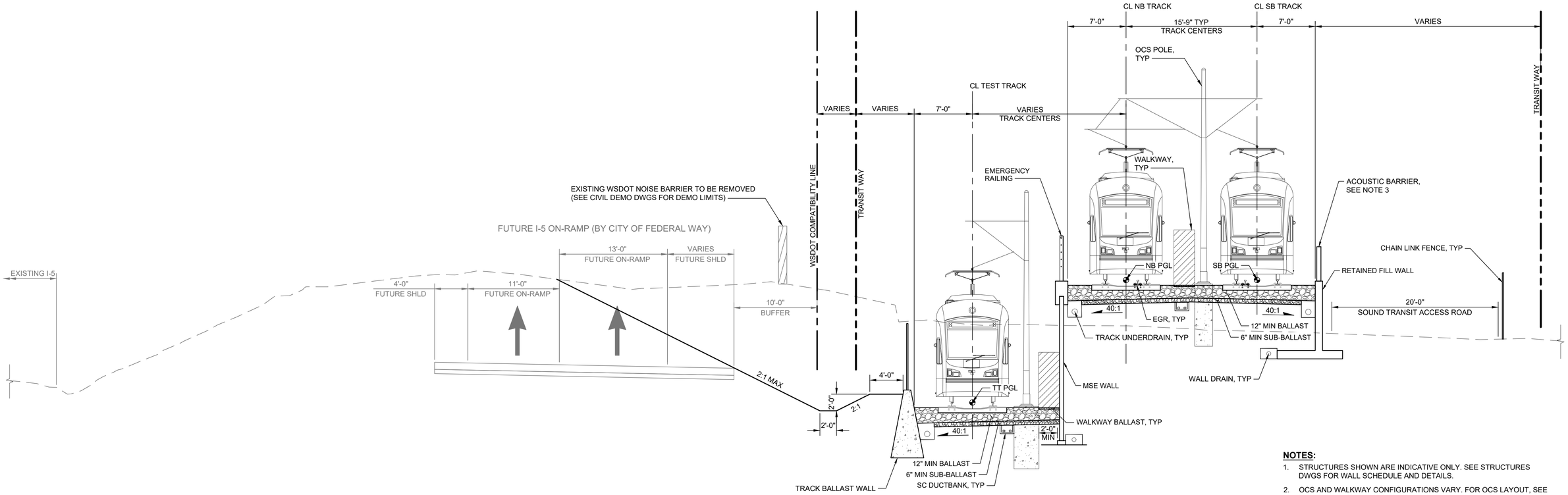
SCALE: NTS
FILENAME: OMFS-S08-KYX001-010
CONTRACT No.: AE-0030-17
DATE: 2/27/2024

SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH

TRACKWORK
MAINLINE TYPICAL SECTIONS

DRAWING No.: **S08-KYX001**
FACILITY ID: S08
SHEET No.:
REV: 0

02/23/24 | 10:51 AM | ASCHEPPE
C:\PWWORKING\WEST01\D2780548\OMFS-S08-KYX001-010.DWG



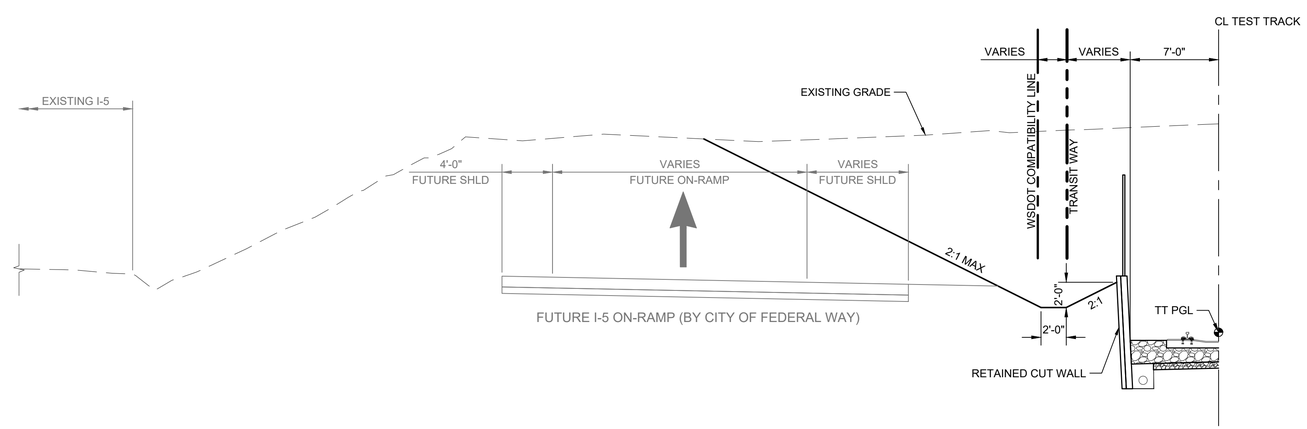
TRIPLE TRACK GUIDEWAY - MAINLINE ON RETAINED FILL AND TEST TRACK IN RETAINED CUT

NOT TO SCALE

B
-

NOTES:

1. STRUCTURES SHOWN ARE INDICATIVE ONLY. SEE STRUCTURES DWGS FOR WALL SCHEDULE AND DETAILS.
2. OCS AND WALKWAY CONFIGURATIONS VARY. FOR OCS LAYOUT, SEE S08-JOP100 TO S08-JOP108. FOR WALKWAY LAYOUT, SEE S08-KAP100 TO S08-KAP108.
3. FOR ACOUSTIC BARRIER LOCATIONS, SEE ACOUSTIC BARRIER AND NOISE WALL SCHEDULE ON SHEET STD-SWS001.
4. PER SOUND TRANSIT REQUIREMENTS MANUAL 522.6.18.2.1, THE WALKWAY CLEARANCE ENVELOPE MUST BE 30 INCHES WIDE BY 80 INCHES TALL ABOVE THE WALKING SURFACE.



ALTERNATE LEFT SIDE - RETAINED CUT WALL

NOT TO SCALE

NOT FOR CONSTRUCTION

Refer to the plan set COVER drawing for disclaimers regarding this drawing.

REFERENCE CONCEPT DRAWINGS

No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY: S. LIU
DRAWN BY: S. LIU
CHECKED BY: M. PETERSON
APPROVED BY: P. LOPEZ-HILFIKER

AHJ:

PACKAGE #

HSIAO-HSUAN LIU, STATE OF WASHINGTON, REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY

HDR

SUBMITTED BY: PABLO LOPEZ-HILFIKER
DATE: 2/27/2024
REVIEWED BY:
DATE:

LINE IS 1" AT FULL SCALE

SOUNDTRANSIT

SCALE: NTS
FILENAME: OMFS-S08-KYX001-010
CONTRACT No.: AE-0030-17
DATE: 2/27/2024

SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH
TRACKWORK
MAINLINE AND TEST TRACK TYPICAL SECTIONS

DRAWING No.: **S08-KYX002**
FACILITY ID: S08
SHEET No.:
REV: 0

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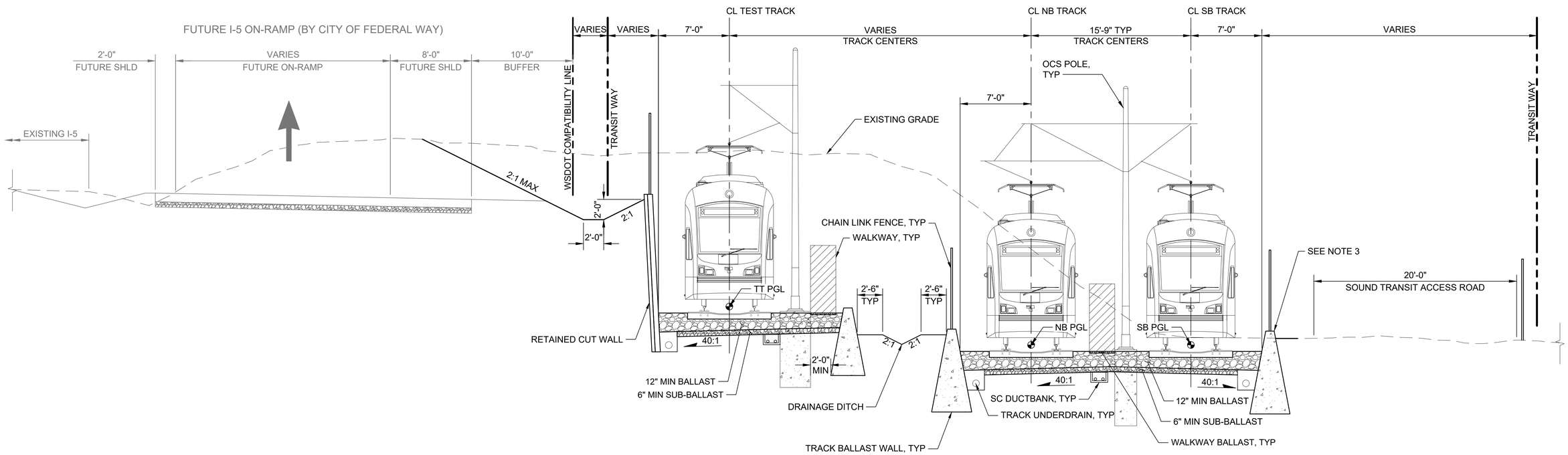
C:\PWWORKING\WEST01\D2780548\OMFS-S08-KYX001-010.DWG



AT GRADE GUIDEWAY - MAINLINE DOUBLE TRACK & INDEPENDENT TEST TRACK

NOT TO SCALE

C
-

NOTES:

1. STRUCTURES SHOWN ARE INDICATIVE ONLY. SEE STRUCTURES DWGS FOR WALL SCHEDULE AND DETAILS.
2. OCS AND WALKWAY CONFIGURATIONS VARY. FOR OCS LAYOUT, SEE S08-JOP100 TO S08-JOP108. FOR WALKWAY LAYOUT, SEE S08-KAP100 TO S08-KAP108.
3. FOR NOISE WALL LOCATIONS, SEE ACOUSTIC BARRIER AND NOISE WALL SCHEDULE ON SHEET STD-SWS001.
4. PER SOUND TRANSIT REQUIREMENTS MANUAL 522.6.18.2.1, THE WALKWAY CLEARANCE ENVELOPE MUST BE 30 INCHES WIDE BY 80 INCHES TALL ABOVE THE WALKING SURFACE.

NOT FOR CONSTRUCTION

Refer to the plan set COVER drawing for disclaimers regarding this drawing.

REFERENCE CONCEPT DRAWINGS

No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY: S. LIU
DRAWN BY: S. LIU
CHECKED BY: M. PETERSON
APPROVED BY: P. LOPEZ-HILFIKER

AHJ:

PRELIMINARY — HSIAO-HSUAN LIU, STATE OF WASHINGTON, 45850, REGISTERED PROFESSIONAL ENGINEER

HDR

SUBMITTED BY: PABLO LOPEZ-HILFIKER
DATE: 2/27/2024
REVIEWED BY:
DATE:

LINE IS 1" AT FULL SCALE

SOUNDTRANSIT

PACKAGE #

SCALE: NTS
FILENAME: OMFS-S08-KYX001-010
CONTRACT No.: AE-0030-17
DATE: 2/27/2024

SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH
TRACKWORK
MAINLINE AND TEST TRACK TYPICAL SECTIONS

DRAWING No.: S08-KYX003
FACILITY ID: S08
SHEET No.:
REV: 0

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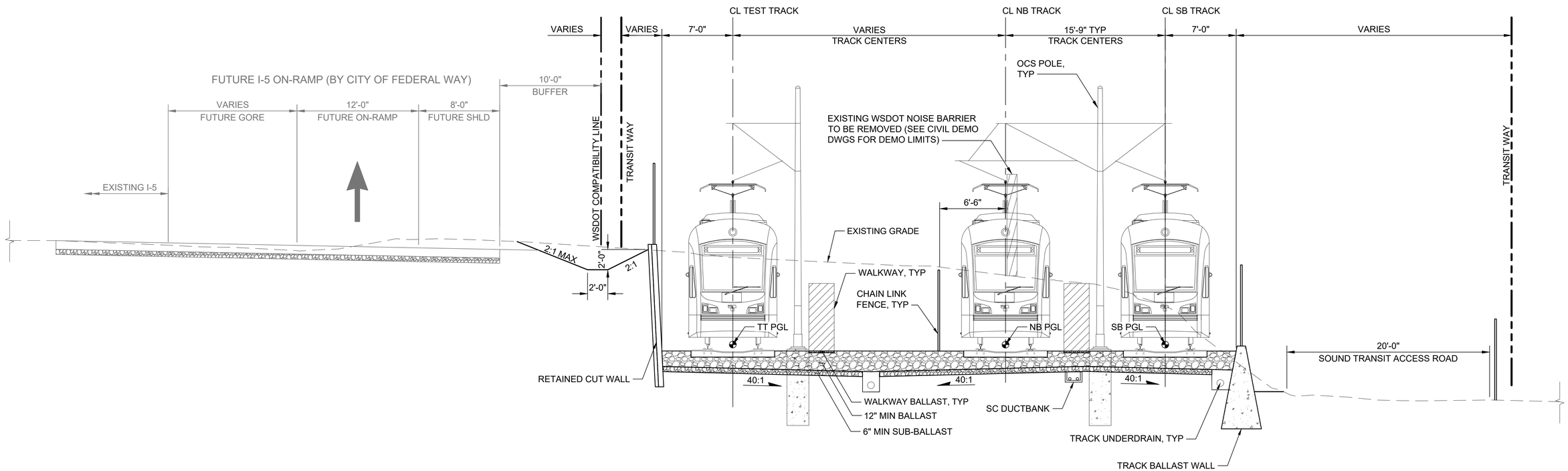
C:\PWWORKING\WEST01\D2780548\OMFS-S08-KYX001-010.DWG



AT GRADE GUIDEWAY TRIPLE TRACK

NOT TO SCALE

D
-

NOTES:

1. STRUCTURES SHOWN ARE INDICATIVE ONLY. SEE STRUCTURES DWGS FOR WALL SCHEDULE AND DETAILS.
2. OCS AND WALKWAY CONFIGURATIONS VARY. FOR OCS LAYOUT, SEE S08-JOP100 TO S08-JOP108. FOR WALKWAY LAYOUT, SEE S08-KAP100 TO S08-KAP108.
3. PER SOUND TRANSIT REQUIREMENTS MANUAL 522.6.18.2.1, THE WALKWAY CLEARANCE ENVELOPE MUST BE 30 INCHES WIDE BY 80 INCHES TALL ABOVE THE WALKING SURFACE.

NOT FOR CONSTRUCTION

Refer to the plan set COVER drawing for disclaimers regarding this drawing.

REFERENCE CONCEPT DRAWINGS

No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY: S. LIU
DRAWN BY: S. LIU
CHECKED BY: M. PETERSON
APPROVED BY: P. LOPEZ-HILFIKER

AHJ:

HSIAO-HSUAN LIU, STATE OF WASHINGTON, 45650, REGISTERED PROFESSIONAL ENGINEER, PRELIMINARY

HDR

LINE IS 1" AT FULL SCALE

SOUNDTRANSIT

SUBMITTED BY: PABLO LOPEZ-HILFIKER
DATE: 2/27/2024
REVIEWED BY:
DATE:

PACKAGE #

SCALE: NTS
FILENAME: OMFS-S08-KYX001-010
CONTRACT No.: AE-0030-17
DATE: 2/27/2024

SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH
TRACKWORK
MAINLINE AND TEST TRACK TYPICAL SECTIONS

DRAWING No.: **S08-KYX004**
FACILITY ID: S08
SHEET No.:
REV: 0

02/23/24 | 10:51 AM | ASCHEPPE
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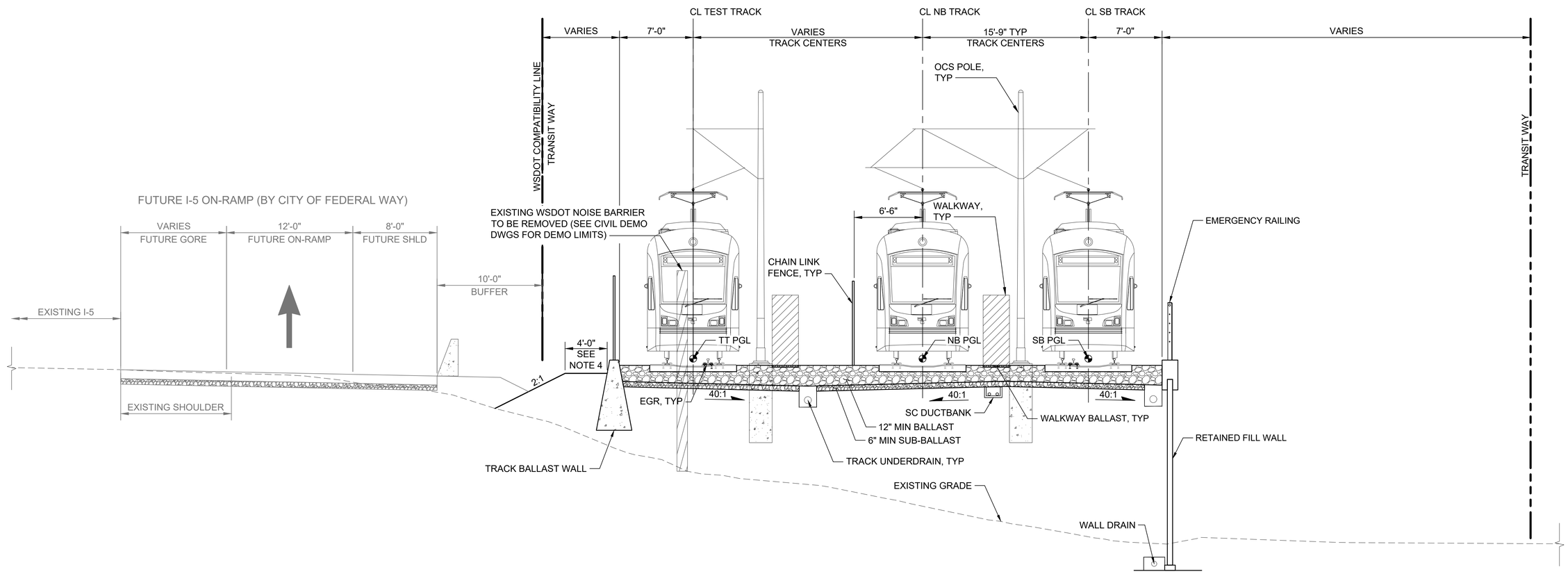

RETAINED FILL GUIDEWAY BALLASTED TRIPLE TRACK (E / -)

NOT TO SCALE

NOTES:

1. STRUCTURES SHOWN ARE INDICATIVE ONLY. SEE STRUCTURES DWGS FOR WALL SCHEDULE AND DETAILS.
2. OCS AND WALKWAY CONFIGURATIONS VARY. FOR OCS LAYOUT, SEE S08-JOP100 TO S08-JOP108. FOR WALKWAY LAYOUT, SEE S08-KAP100 TO S08-KAP108.
3. PER SOUND TRANSIT REQUIREMENTS MANUAL 522.6.18.2.1, THE WALKWAY CLEARANCE ENVELOPE MUST BE 30 INCHES WIDE BY 80 INCHES TALL ABOVE THE WALKING SURFACE.
4. FINISH GRADE ELEVATION EAST OF THE GUIDEWAY TO MATCH THE EDGE OF EXISTING I-5 SB SHOULDER ELEVATION.

NOT FOR CONSTRUCTION

Refer to the plan set COVER drawing for disclaimers regarding this drawing.

AHJ:

PACKAGE #

REFERENCE CONCEPT DRAWINGS

No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY: S. LIU
DRAWN BY: S. LIU
CHECKED BY: M. PETERSON
APPROVED BY: P. LOPEZ-HILFIKER

HSIAO-HSUAN LIU, STATE OF WASHINGTON, 47650, REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY

HDR

SUBMITTED BY: PABLO LOPEZ-HILFIKER
DATE: 2/27/2024
REVIEWED BY:
DATE:

LINE IS 1" AT FULL SCALE

SOUNDTRANSIT

SCALE: NTS
FILENAME: OMFS-S08-KYX001-010
CONTRACT No.: AE-0030-17
DATE: 2/27/2024

SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH
TRACKWORK
MAINLINE AND TEST TRACK TYPICAL SECTIONS

DRAWING No.: S08-KYX005
FACILITY ID: S08
SHEET No.:
REV: 0

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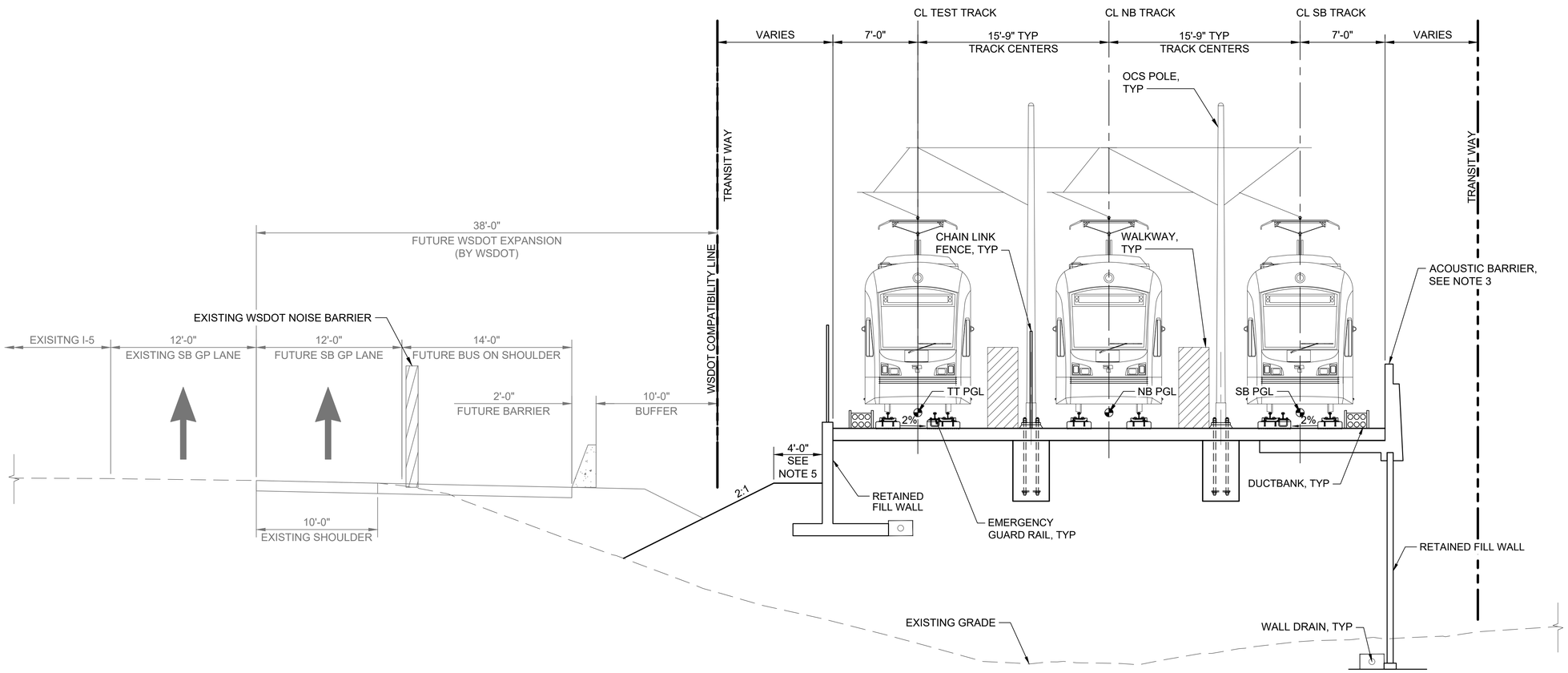

RETAINED FILL GUIDEWAY DIRECT FIXATION TRIPLE TRACK

NOT TO SCALE

F
-

NOTES:

1. STRUCTURES SHOWN ARE INDICATIVE ONLY. SEE STRUCTURES DWGS FOR WALL SCHEDULE AND DETAILS.
2. OCS AND WALKWAY CONFIGURATIONS VARY. FOR OCS LAYOUT, SEE S08-JOP100 TO S08-JOP108. FOR WALKWAY LAYOUT, SEE S08-KAP100 TO S08-KAP108.
3. FOR ACOUSTIC BARRIER LOCATIONS, SEE ACOUSTIC BARRIER AND NOISE WALL SCHEDULE ON SHEET STD-SWS001.
4. PER SOUND TRANSIT REQUIREMENTS MANUAL 522.6.18.2.1, THE WALKWAY CLEARANCE ENVELOPE MUST BE 30 INCHES WIDE BY 80 INCHES TALL ABOVE THE WALKING SURFACE.
5. FINISH GRADE ELEVATION EAST OF THE GUIDEWAY TO MATCH THE EDGE OF EXISTING I-5 SB SHOULDER ELEVATION.

NOT FOR CONSTRUCTION

Refer to the plan set COVER drawing for disclaimers regarding this drawing.

REFERENCE CONCEPT DRAWINGS

No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY: S. LIU
DRAWN BY: S. LIU
CHECKED BY: M. PETERSON
APPROVED BY: P. LOPEZ-HILFIKER

AHJ:

PRELIMINARY — HSIAO-HSUAN LIU, STATE OF WASHINGTON, 47650, REGISTERED PROFESSIONAL ENGINEER

HDR

SUBMITTED BY: PABLO LOPEZ-HILFIKER
DATE: 2/27/2024
REVIEWED BY:
DATE:

LINE IS 1" AT FULL SCALE

SOUNDTRANSIT

PACKAGE #

SCALE: NTS
FILENAME: OMFS-S08-KYX001-010
CONTRACT No.: AE-0030-17
DATE: 2/27/2024

SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH
TRACKWORK
MAINLINE AND TEST TRACK TYPICAL SECTIONS

DRAWING No.: **S08-KYX006**
FACILITY ID: S08
SHEET No.:
REV: 0

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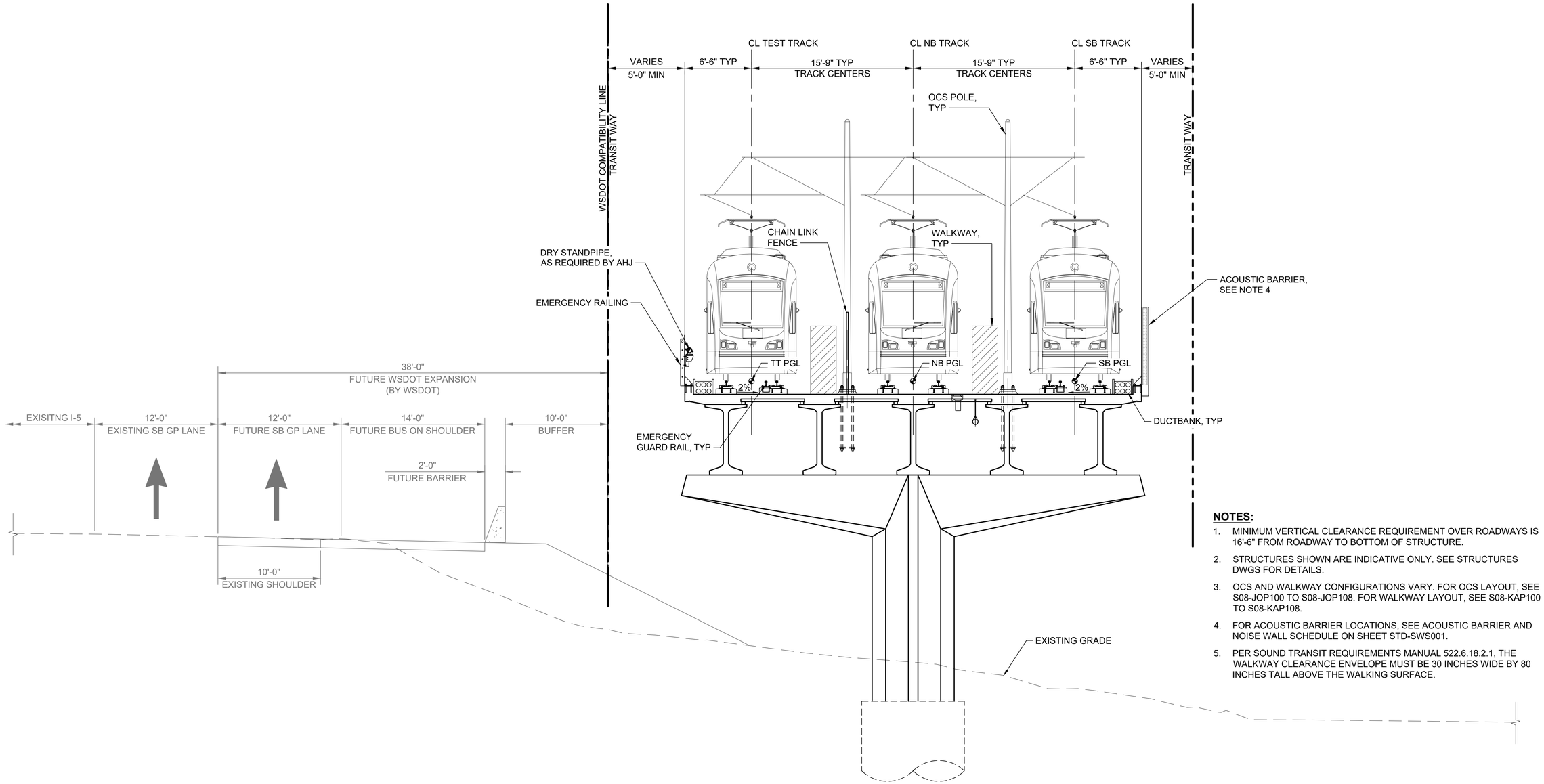

NOTES:

1. MINIMUM VERTICAL CLEARANCE REQUIREMENT OVER ROADWAYS IS 16'-6" FROM ROADWAY TO BOTTOM OF STRUCTURE.
2. STRUCTURES SHOWN ARE INDICATIVE ONLY. SEE STRUCTURES DWGS FOR DETAILS.
3. OCS AND WALKWAY CONFIGURATIONS VARY. FOR OCS LAYOUT, SEE S08-JOP100 TO S08-JOP108. FOR WALKWAY LAYOUT, SEE S08-KAP100 TO S08-KAP108.
4. FOR ACOUSTIC BARRIER LOCATIONS, SEE ACOUSTIC BARRIER AND NOISE WALL SCHEDULE ON SHEET STD-SWS001.
5. PER SOUND TRANSIT REQUIREMENTS MANUAL 522.6.18.2.1, THE WALKWAY CLEARANCE ENVELOPE MUST BE 30 INCHES WIDE BY 80 INCHES TALL ABOVE THE WALKING SURFACE.

ELEVATED GUIDEWAY TRIPLE TRACK — G / -

NOT TO SCALE

NOT FOR CONSTRUCTION

Refer to the plan set COVER drawing for disclaimers regarding this drawing.

REFERENCE CONCEPT DRAWINGS

No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY: S. LIU
DRAWN BY: S. LIU
CHECKED BY: M. PETERSON
APPROVED BY: P. LOPEZ-HILFIKER

AHJ:

PRELIMINARY — HSIAO-HSUAN LIU, STATE OF WASHINGTON, 51650, REGISTERED PROFESSIONAL ENGINEER

HDR

SUBMITTED BY: PABLO LOPEZ-HILFIKER
DATE: 2/27/2024
REVIEWED BY:
DATE:

LINE IS 1" AT FULL SCALE

SOUNDTRANSIT

PACKAGE #

SCALE: NTS
FILENAME: OMFS-S08-KYX001-010
CONTRACT No.: AE-0030-17
DATE: 2/27/2024

SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH
TRACKWORK
MAINLINE AND TEST TRACK TYPICAL SECTIONS

DRAWING No.: **S08-KYX007**
FACILITY ID: S08
SHEET No.:
REV: 0

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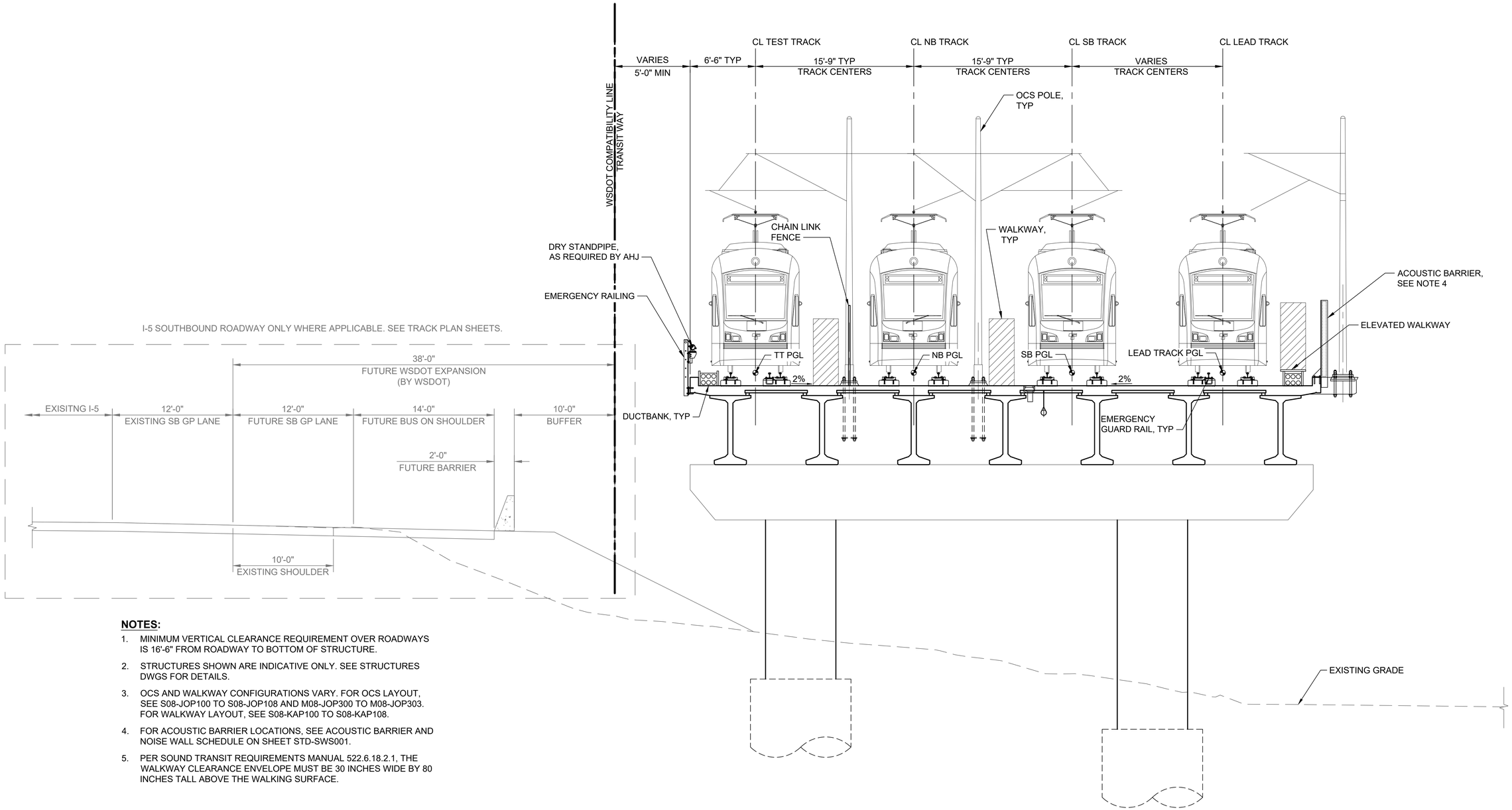

NOTES:

1. MINIMUM VERTICAL CLEARANCE REQUIREMENT OVER ROADWAYS IS 16'-6" FROM ROADWAY TO BOTTOM OF STRUCTURE.
2. STRUCTURES SHOWN ARE INDICATIVE ONLY. SEE STRUCTURES DWGS FOR DETAILS.
3. OCS AND WALKWAY CONFIGURATIONS VARY. FOR OCS LAYOUT, SEE S08-JOP100 TO S08-JOP108 AND M08-JOP300 TO M08-JOP303. FOR WALKWAY LAYOUT, SEE S08-KAP100 TO S08-KAP108.
4. FOR ACOUSTIC BARRIER LOCATIONS, SEE ACOUSTIC BARRIER AND NOISE WALL SCHEDULE ON SHEET STD-SWS001.
5. PER SOUND TRANSIT REQUIREMENTS MANUAL 522.6.18.2.1, THE WALKWAY CLEARANCE ENVELOPE MUST BE 30 INCHES WIDE BY 80 INCHES TALL ABOVE THE WALKING SURFACE.

ELEVATED GUIDEWAY FOUR TRACK - MAINLINE, TEST TRACK, AND LEAD TRACK

NOT TO SCALE

H
-

NOT FOR CONSTRUCTION

Refer to the plan set COVER drawing for disclaimers regarding this drawing.

REFERENCE CONCEPT DRAWINGS

No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY: S. LIU
DRAWN BY: A. SCHEPPE
CHECKED BY: M. PETERSON
APPROVED BY: P. LOPEZ-HILFIKER

AHJ:

PABLO LOPEZ-HILFIKER
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER

HDR

SUBMITTED BY: PABLO LOPEZ-HILFIKER
DATE: 2/27/2024
REVIEWED BY:
DATE:

LINE IS 1" AT FULL SCALE

SOUNDTRANSIT

PACKAGE #

SCALE: NTS
FILENAME: OMFS-S08-KYX001-010
CONTRACT No.: AE-0030-17
DATE: 2/27/2024

SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH

TRACKWORK
MAINLINE, LEAD TRACK, AND TEST TRACK
TYPICAL SECTIONS

DRAWING No.: S08-KYX008
FACILITY ID: S08
SHEET No.:
REV: 0

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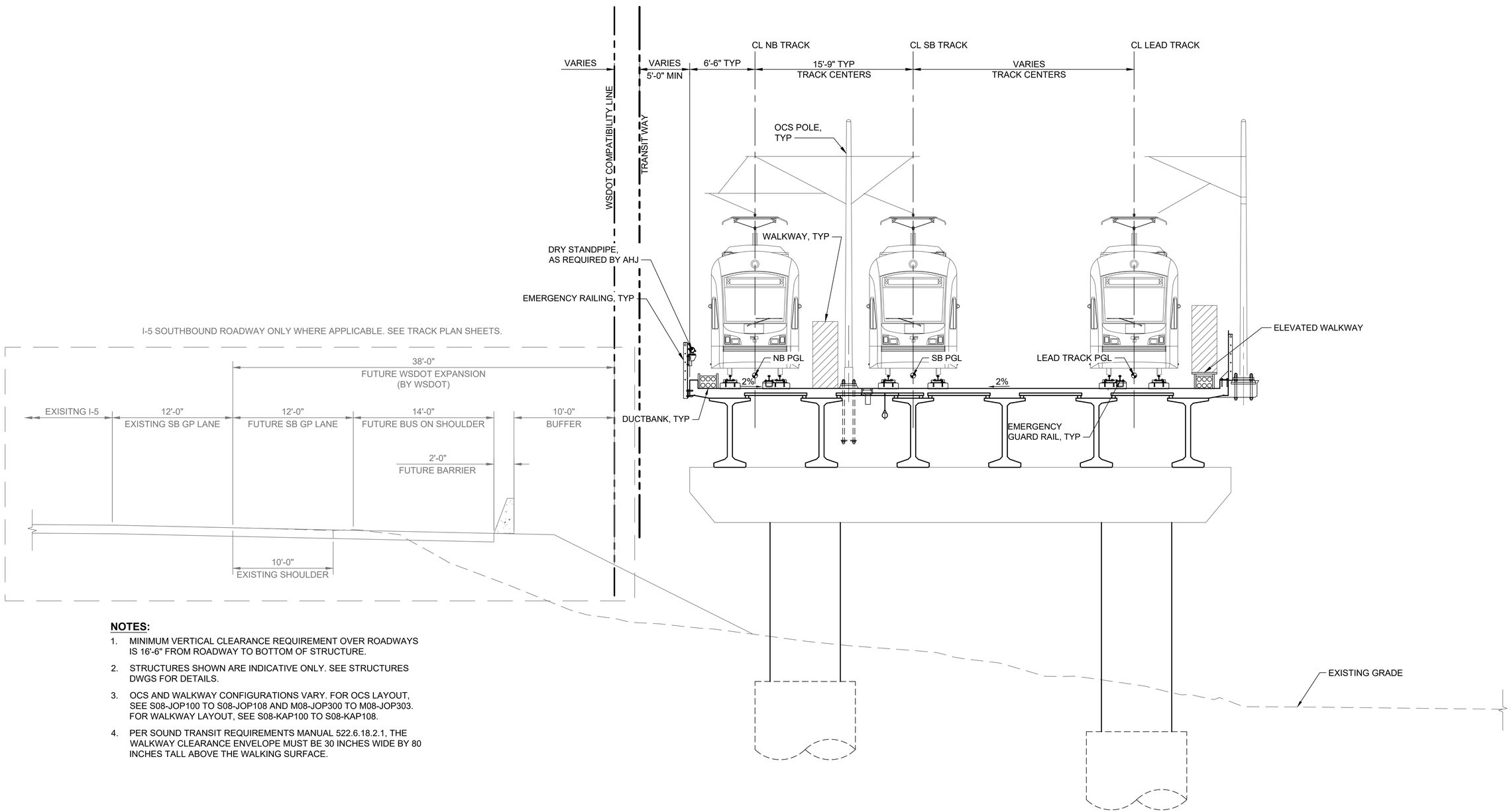

NOTES:

1. MINIMUM VERTICAL CLEARANCE REQUIREMENT OVER ROADWAYS IS 16'-6" FROM ROADWAY TO BOTTOM OF STRUCTURE.
2. STRUCTURES SHOWN ARE INDICATIVE ONLY. SEE STRUCTURES DWGS FOR DETAILS.
3. OCS AND WALKWAY CONFIGURATIONS VARY. FOR OCS LAYOUT, SEE S08-JOP100 TO S08-JOP108 AND M08-JOP300 TO M08-JOP303. FOR WALKWAY LAYOUT, SEE S08-KAP100 TO S08-KAP108.
4. PER SOUND TRANSIT REQUIREMENTS MANUAL 522.6.18.2.1, THE WALKWAY CLEARANCE ENVELOPE MUST BE 30 INCHES WIDE BY 80 INCHES TALL ABOVE THE WALKING SURFACE.

ELEVATED GUIDEWAY TRIPLE TRACK - MAINLINE AND LEAD TRACK

NOT TO SCALE

I
-

NOT FOR CONSTRUCTION

Refer to the plan set COVER drawing for disclaimers regarding this drawing.

REFERENCE CONCEPT DRAWINGS

No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY: S. LIU
DRAWN BY: A. SCHEPPE
CHECKED BY: M. PETERSON
APPROVED BY: P. LOPEZ-HILFIKER

AHJ:

HOAD-HSU ALLEN, STATE OF WASHINGTON, 45260, REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY

HDR

SUBMITTED BY: PABLO LOPEZ-HILFIKER
DATE: 2/27/2024
REVIEWED BY:
DATE:

LINE IS 1" AT FULL SCALE

SOUNDTRANSIT

PACKAGE #

SCALE: NTS
FILENAME: OMFS-S08-KYX001-010
CONTRACT No.: AE-0030-17
DATE: 2/27/2024

SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH
TRACKWORK
MAINLINE AND LEAD TRACK TYPICAL SECTIONS

DRAWING No.: S08-KYX009
FACILITY ID: S08
SHEET No.:
REV: 0

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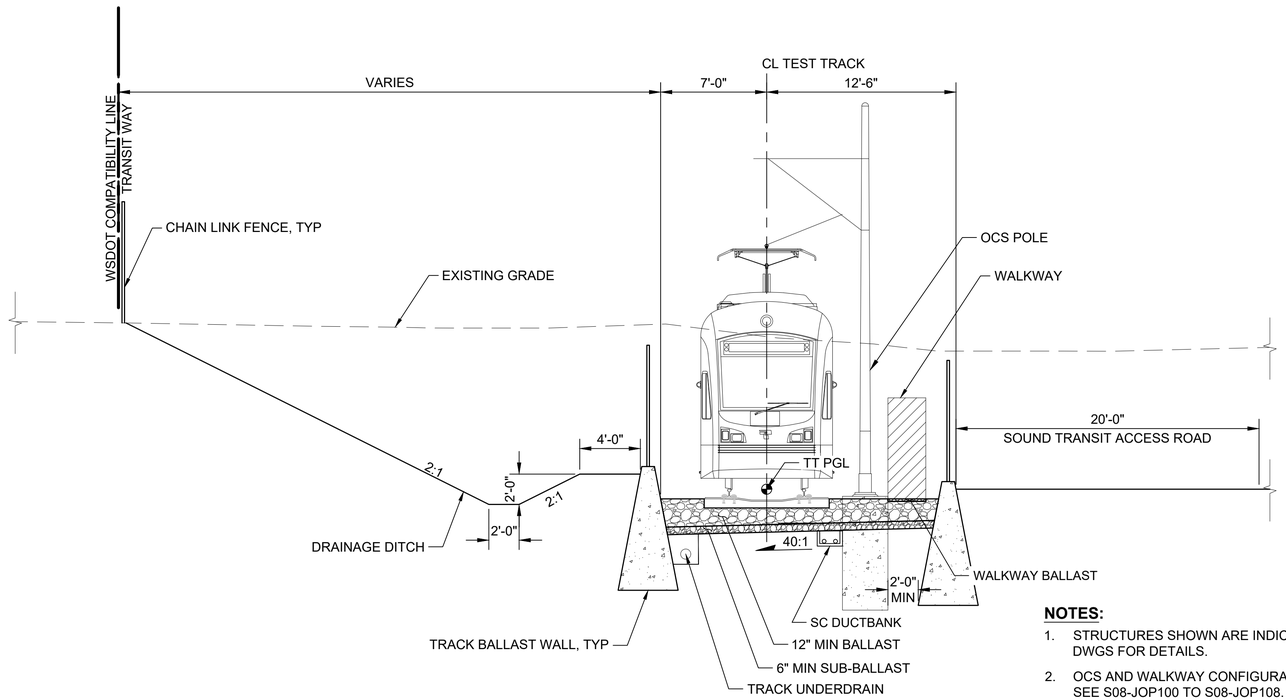

NOTES:

1. STRUCTURES SHOWN ARE INDICATIVE ONLY. SEE STRUCTURES DWGS FOR DETAILS.
2. OCS AND WALKWAY CONFIGURATIONS VARY. FOR OCS LAYOUT, SEE S08-JOP100 TO S08-JOP108. FOR WALKWAY LAYOUT, SEE S08-KAP100 TO S08-KAP108.
3. PER SOUND TRANSIT REQUIREMENTS MANUAL 522.6.18.2.1, THE WALKWAY CLEARANCE ENVELOPE MUST BE 30 INCHES WIDE BY 80 INCHES TALL ABOVE THE WALKING SURFACE.

TEST TRACK INDEPENDENT AT GRADE GUIDEWAY

NOT TO SCALE

J
-

NOT FOR CONSTRUCTION

Refer to the plan set COVER drawing for disclaimers regarding this drawing.

REFERENCE CONCEPT DRAWINGS

No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY: S. LIU
DRAWN BY: S. LIU
CHECKED BY: M. PETERSON
APPROVED BY: P. LOPEZ-HILFIKER

AHJ:

PRELIMINARY — HSIAO-HSUAN LIU — STATE OF WASHINGTON — 45050 — REGISTERED PROFESSIONAL ENGINEER

HDR

SUBMITTED BY: PABLO LOPEZ-HILFIKER
DATE: 2/27/2024
REVIEWED BY:
DATE:

LINE IS 1" AT FULL SCALE

SOUNDTRANSIT

PACKAGE #

SCALE: NTS
FILENAME: OMFS-S08-KYX001-010
CONTRACT No.: AE-0030-17
DATE: 2/27/2024

SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH
TRACKWORK
TEST TRACK TYPICAL SECTIONS

DRAWING No.: **S08-KYX010**
FACILITY ID: S08
SHEET No.:
REV: 0

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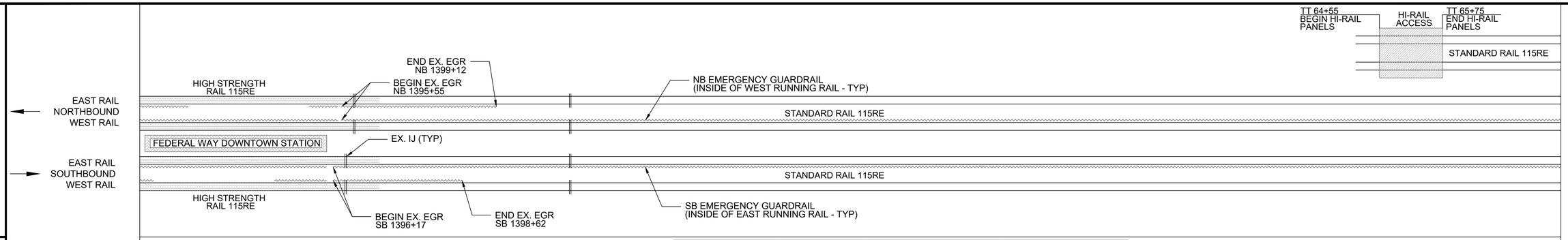
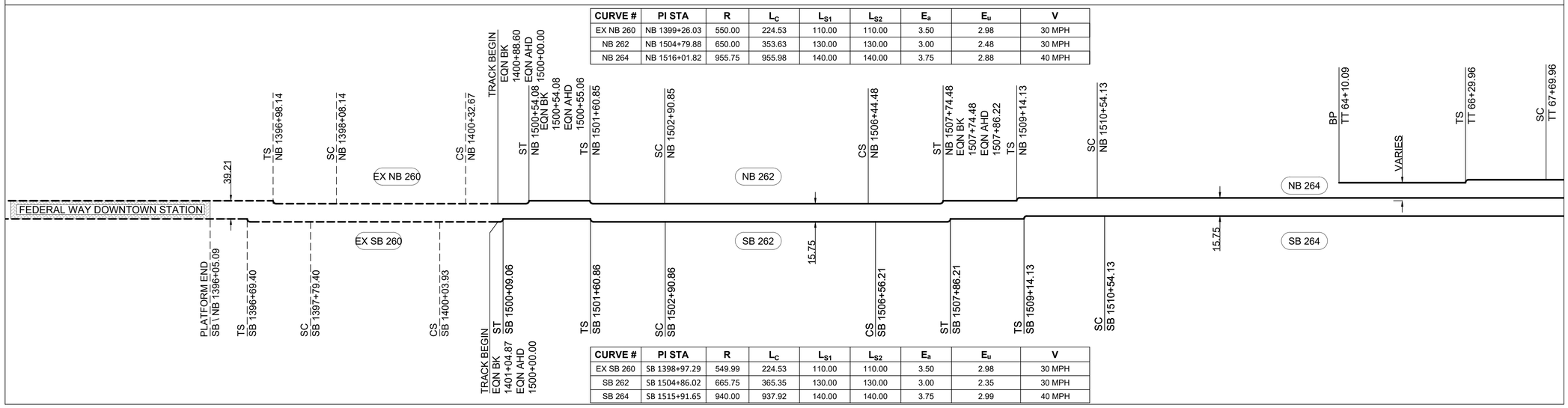
TYPE OF RAIL



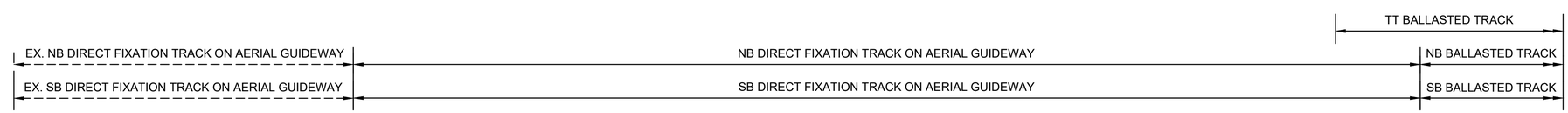
HORIZONTAL ALIGNMENT



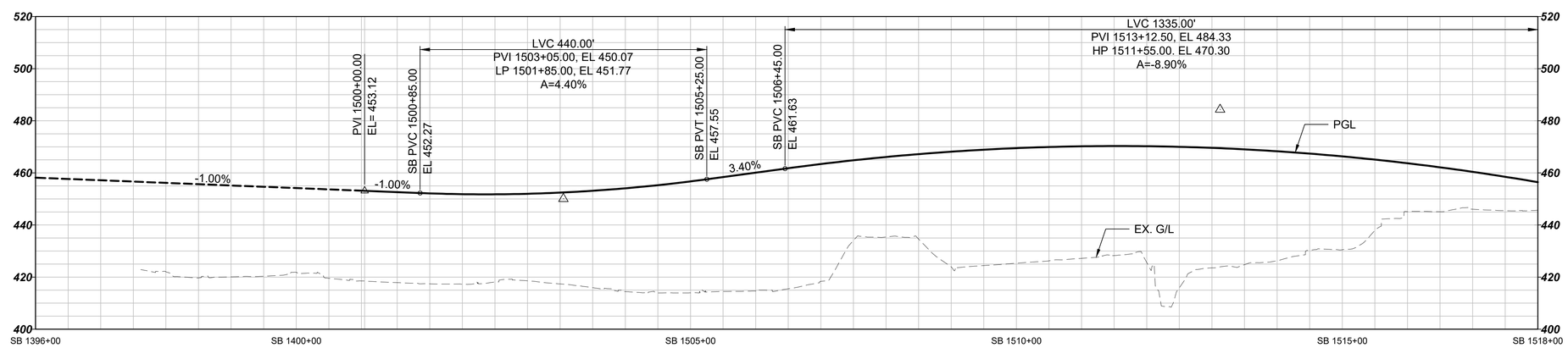
CURVE #	PI STA	R	L_C	L_{S1}	L_{S2}	E_a	E_u	V
EX NB 260	NB 1399+26.03	550.00	224.53	110.00	110.00	3.50	2.98	30 MPH
NB 262	NB 1504+79.88	650.00	353.63	130.00	130.00	3.00	2.48	30 MPH
NB 264	NB 1516+01.82	955.75	955.98	140.00	140.00	3.75	2.88	40 MPH

CURVE #	PI STA	R	L_C	L_{S1}	L_{S2}	E_a	E_u	V
EX SB 260	SB 1398+97.29	549.99	224.53	110.00	110.00	3.50	2.98	30 MPH
SB 262	SB 1504+86.02	665.75	365.35	130.00	130.00	3.00	2.35	30 MPH
SB 264	SB 1515+91.65	940.00	937.92	140.00	140.00	3.75	2.99	40 MPH

TRACK TYPE



VERTICAL ALIGNMENT



Refer to the plan set COVER drawing for disclaimers regarding this drawing.

PRELIMINARY ENGINEERING

NOT FOR CONSTRUCTION

REFERENCE CONCEPT DRAWINGS

No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY: A. SCHEPPE
DRAWN BY: A. SCHEPPE
CHECKED BY: M. PETERSON
APPROVED BY: P. LOPEZ-HILFIKER

AHJ:

PRELIMINARY

SUBMITTED BY: PABLO LOPEZ-HILFIKER
DATE: 2/27/2024
REVIEWED BY:
DATE:

LINE IS 1" AT FULL SCALE

PACKAGE #

SCALE: NTS
FILENAME: OMFS-S08-KTC101-103
CONTRACT No.: AE-0030-17
DATE: 2/27/2024

SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH

TRACKWORK
TRACK CHARTS
SB STA 1500+00 TO SB STA 1518+00

DRAWING No.: S08-KTC101
FACILITY ID: S08
SHEET No.:
REV: 0

02/23/24 | 9:52 AM | HSLIU
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TYPE OF RAIL

EAST RAIL TEST TRACK WEST RAIL

EAST RAIL NORTHBOUND WEST RAIL

EAST RAIL SOUTHBOUND WEST RAIL

STANDARD RAIL 115RE

STANDARD RAIL 115RE

STANDARD RAIL 115RE

NB EMERGENCY GUARDRAIL (INSIDE OF WEST RUNNING RAIL - TYP)

END EGR NB 1522+80.00

BEGIN EGR TT 86+80.00

TT EMERGENCY GUARDRAIL (INSIDE OF WEST RUNNING RAIL - TYP)

BEGIN EGR SB 1534+75.00

SB EMERGENCY GUARDRAIL (INSIDE OF EAST RUNNING RAIL - TYP)

END EGR SB 1522+50.00

SB 1533+40 BEGIN HI-RAIL PANELS

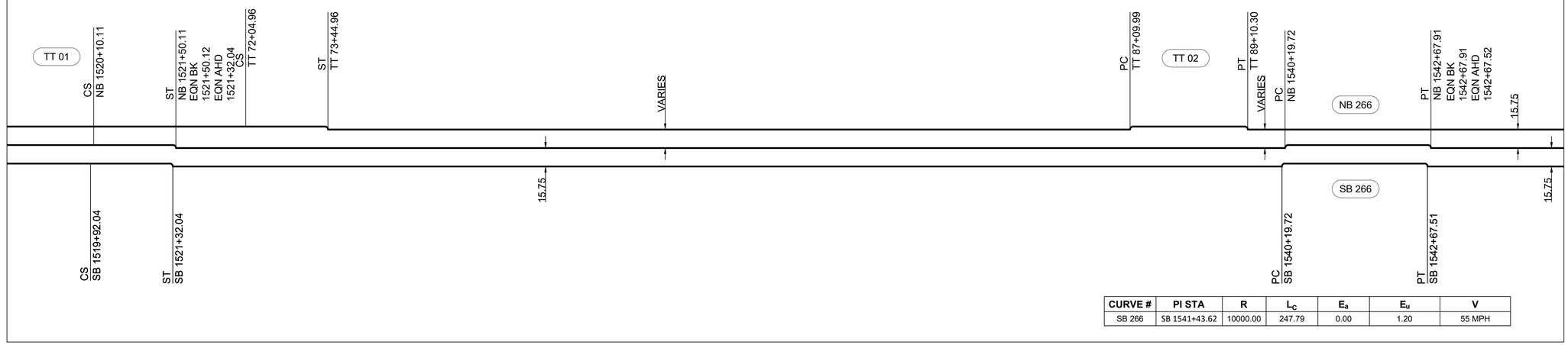
HI-RAIL ACCESS

SB 1534+60 END HI-RAIL PANELS

HORIZONTAL ALIGNMENT

CURVE #	PI STA	R	L_C	L_{S1}	L_{S2}	E_a	E_u	V
TT 01	TT 69+88.77	2500.00	435.00	140.00	140.00	2.50	2.29	55 MPH

CURVE #	PI STA	R	L_C	E_a	E_u	V
TT 02	TT 88+10.15	10000.00	200.31	0.00	1.20	55 MPH
NB 266	NB 1541+43.82	10015.75	248.18	0.00	1.20	55 MPH



CURVE #	PI STA	R	L_C	E_a	E_u	V
SB 266	SB 1541+43.62	10000.00	247.79	0.00	1.20	55 MPH

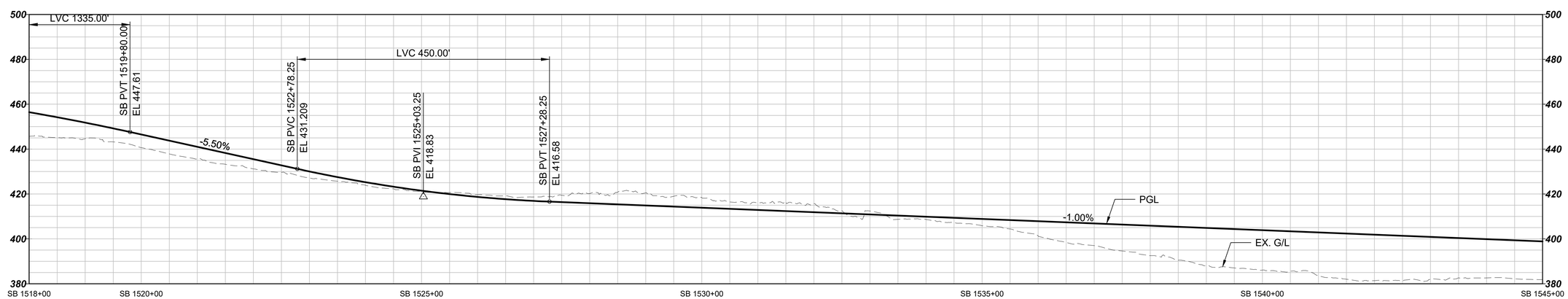
TRACK TYPE

TT BALLASTED TRACK — TT DIRECT FIXATION TRACK ON TRACK SLAB

NB BALLASTED TRACK — NB DIRECT FIXATION TRACK ON TRACK SLAB

SB BALLASTED TRACK — SB DIRECT FIXATION TRACK ON TRACK SLAB

VERTICAL ALIGNMENT



PRELIMINARY ENGINEERING

NOT FOR CONSTRUCTION

Refer to the plan set COVER drawing for disclaimers regarding this drawing.

AHJ:

PACKAGE #

REFERENCE CONCEPT DRAWINGS

No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY: A. SCHEPPE
DRAWN BY: A. SCHEPPE
CHECKED BY: M. PETERSON
APPROVED BY: P. LOPEZ-HILFIKER

PRELIMINARY — ANDREW SCHEPPE — STATE OF WASHINGTON — 20984 — REGISTERED PROFESSIONAL ENGINEER

HDR

SUBMITTED BY: PABLO LOPEZ-HILFIKER
DATE: 2/27/2024
REVIEWED BY:
DATE:

LINE IS 1" AT FULL SCALE

SOUNDTRANSIT

SCALE: NTS
FILENAME: OMFS-S08-KTC101-103
CONTRACT No.: AE-0030-17
DATE: 2/27/2024

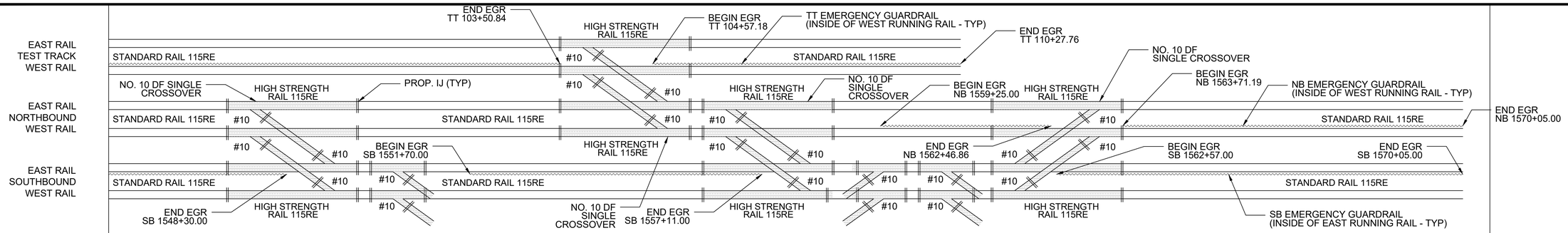
SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH

TRACKWORK
TRACK CHARTS
SB STA 1518+00 TO SB STA 1545+00

DRAWING No.: **S08-KTC102**
FACILITY ID: S08
SHEET No.:
REV: 0

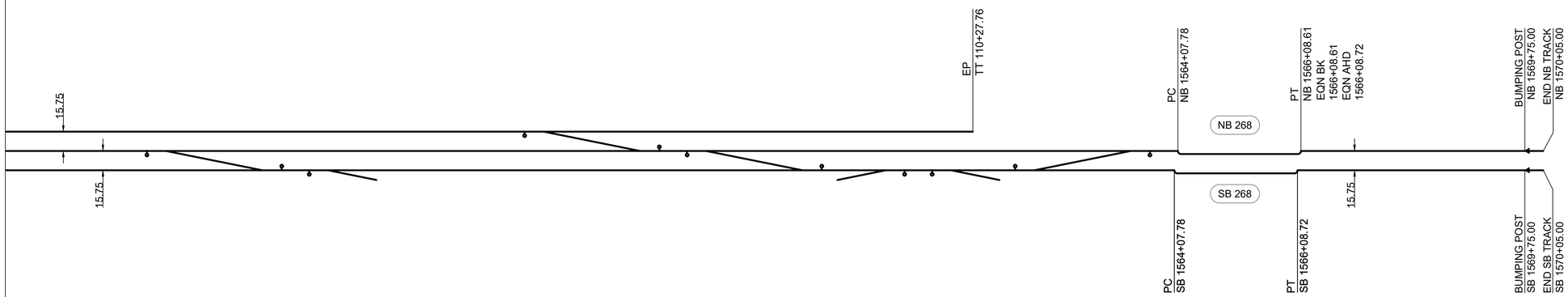
02/23/24 | 9:52 AM | HSLIU
C:\PWWORKING\WEST01\D2780548\OMFS-S08-KTC101-103.DWG

TYPE OF RAIL



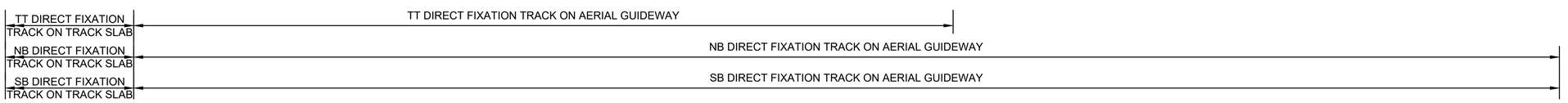
HORIZONTAL ALIGNMENT

CURVE #	PI STA	R	L_C	L_{S1}	L_{S2}	E_a	E_u	V
NB 268	NB 1565+08.19	28000.00	200.83	0.00	0.00	0.00	0.43	55 MPH

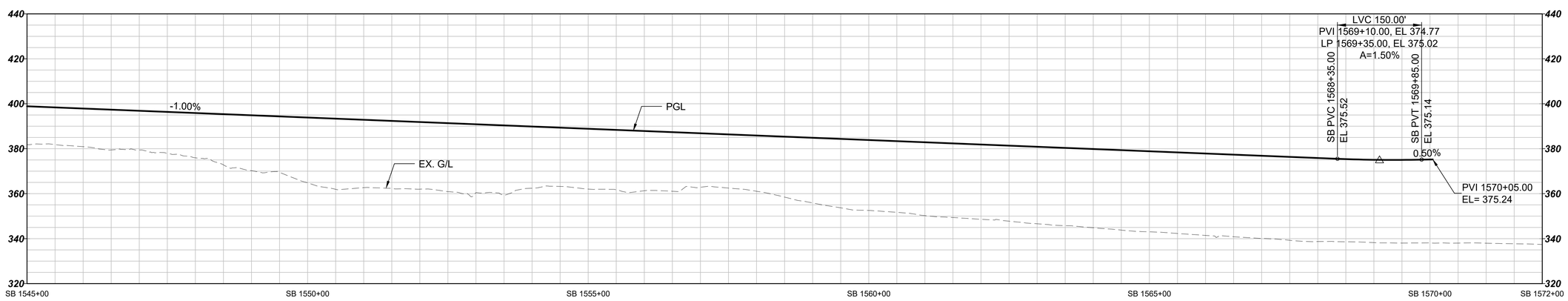


CURVE #	PI STA	R	L_C	L_{S1}	L_{S2}	E_a	E_u	V
SB 268	SB 1565+08.25	28015.75	200.94	0.00	0.00	0.43	0.43	55 MPH

TRACK TYPE



VERTICAL ALIGNMENT



PRELIMINARY ENGINEERING

NOT FOR CONSTRUCTION

Refer to the plan set COVER drawing for disclaimers regarding this drawing.

REFERENCE CONCEPT DRAWINGS

No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY: A. SCHEPPE
DRAWN BY: A. SCHEPPE
CHECKED BY: M. PETERSON
APPROVED BY: P. LOPEZ-HILFIKER

AHJ:

PRELIMINARY

SUBMITTED BY: PABLO LOPEZ-HILFIKER
DATE: 2/27/2024
REVIEWED BY:
DATE:

LINE IS 1" AT FULL SCALE

PACKAGE #

SCALE: NTS
FILENAME: OMFS-S08-KTC101-103
CONTRACT No.: AE-0030-17
DATE: 2/27/2024

SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH

TRACKWORK
TRACK CHARTS
SB STA 1545+00 TO SB STA 1570+05

DRAWING No.: **S08-KTC103**
FACILITY ID: S08
SHEET No.:
REV: 0

02/23/24 | 9:53 AM | HSLIU
C:\PWWORKING\WEST01\D2780548\OMFS-S08-KTC101-103.DWG