



Operations and Maintenance Facility South

Draft Environmental Impact Statement Appendix C: Conceptual Design Plans

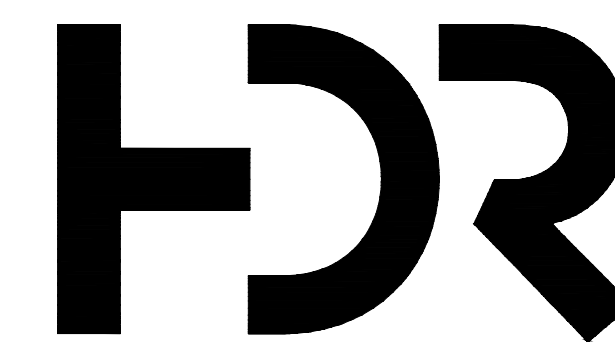


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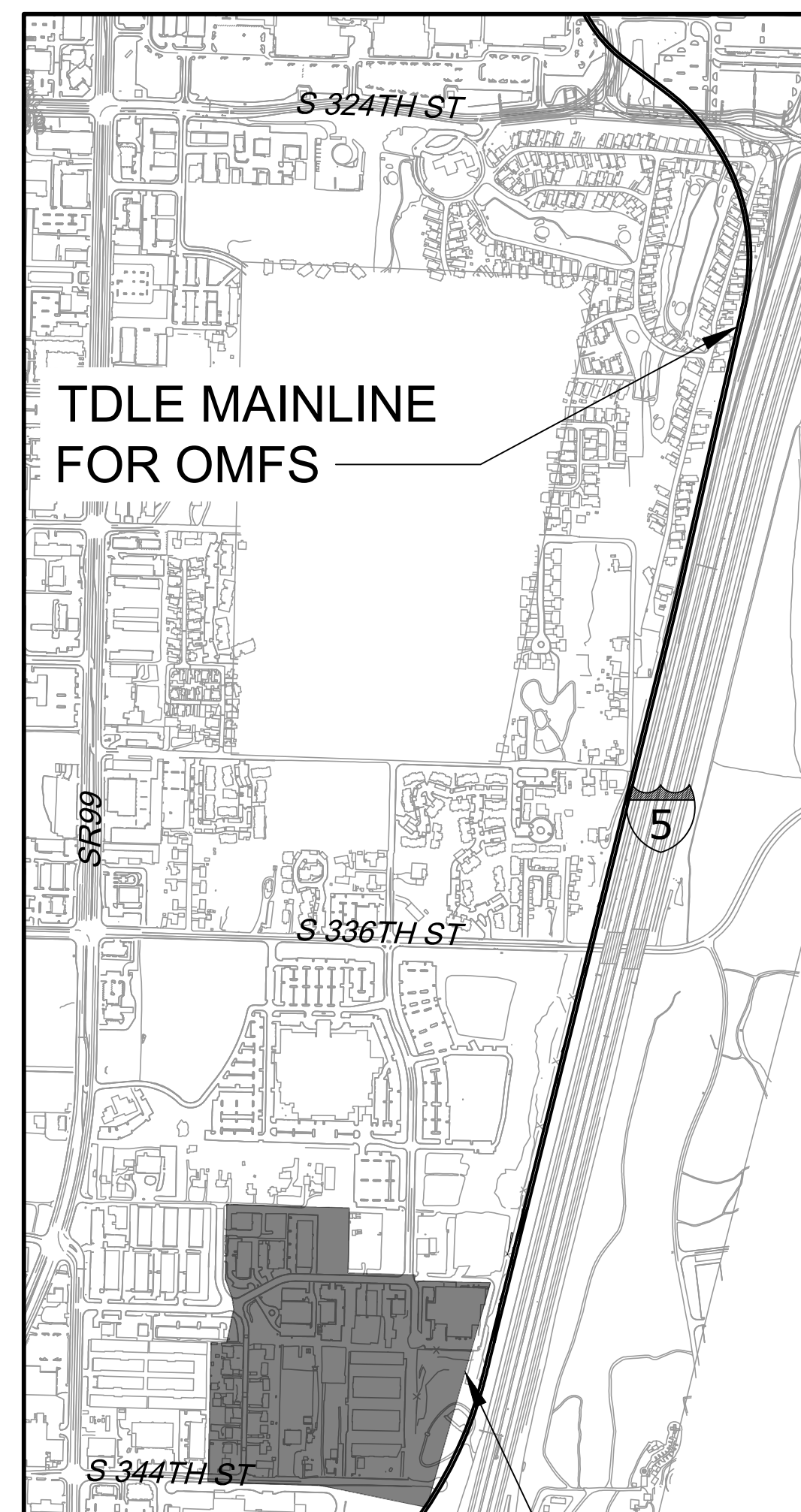
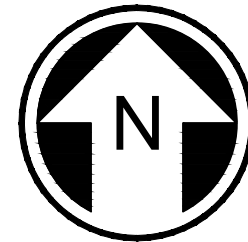
CONCEPTUAL ENGINEERING PLANS

OPERATIONS AND MAINTENANCE FACILITY SOUTH
(OMF SOUTH)

MARCH 2021

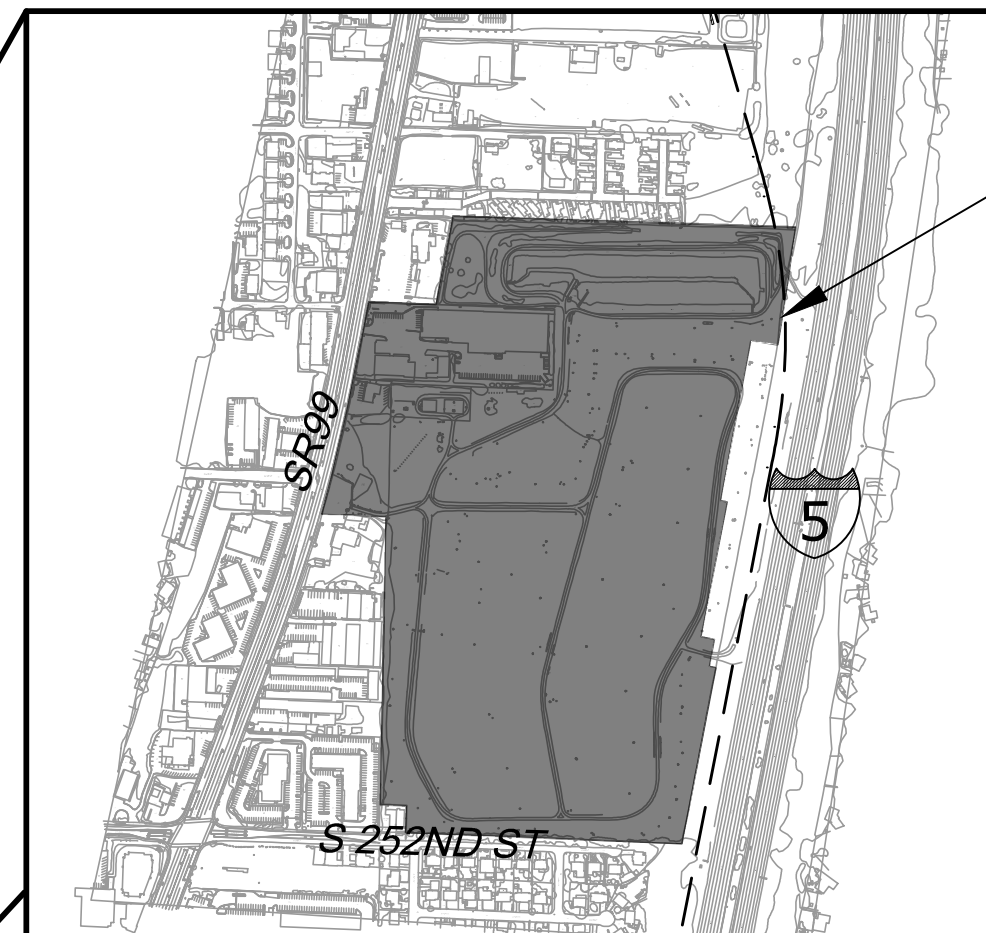


***SOUND TRANSIT
OPERATIONS AND MAINTENANCE FACILITY SOUTH***

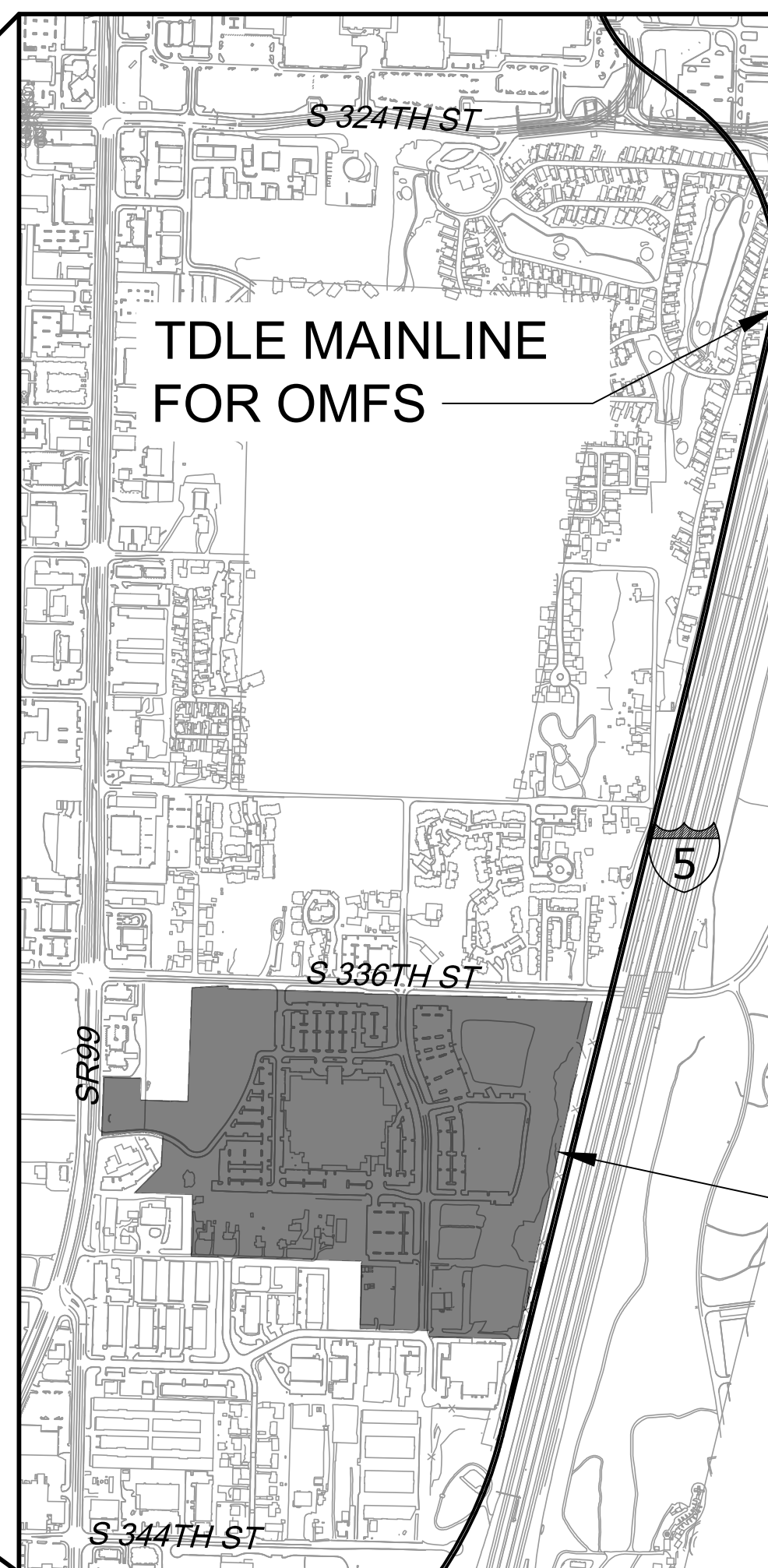


TDLE MAINLINE FOR OMFS

PROJECT LOCATION
S 344TH ST

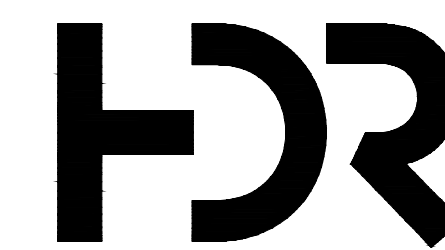


PROJECT LOCATION MIDWAY LANDFILL



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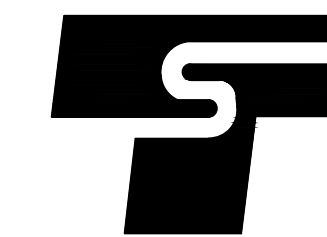
PROJECT LOCATION
S 336TH ST



CIVIL ENGINEERING PRELIMINARY DESIGN CONSULTANT

Approved: _____ Date: _____

Project Manager



SOUNDTRANSIT

CENTRAL PUGET SOUND REGIONAL TRANSIT AUTHORITY

Approved: _____ Date: _____

Civil Engineering Manager

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ENGINEERING

NOT FOR
CONSTRUCTION

DRAWING No.:

G01-GZI001

Scale:
NOT TO SCALE

SHEET No.: ii

PROJECT LOCATION MAPS

INDEX OF DRAWINGS

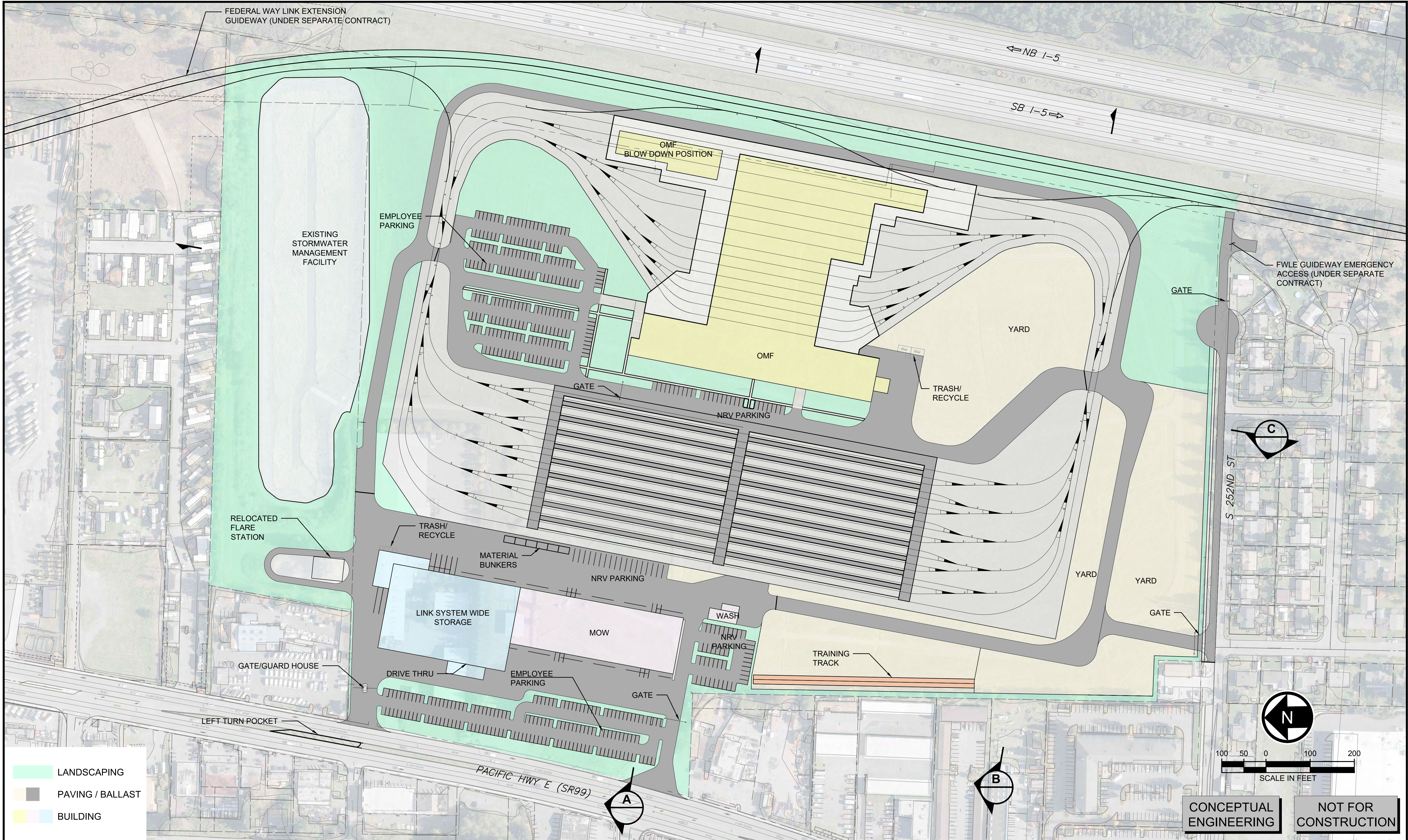
SHEET NO.	DWG. NO.	TITLE
GENERAL DRAWINGS		
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ii	G01-GZI001	PROJECT LOCATION MAP
iii	G01-GZI005	INDEX OF DRAWINGS
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2	M06A-GSX101	MIDWAY LANDFILL - OPTION 1 GENERAL SITE SECTION
3	M06A-CGX101	MIDWAY LANDFILL - OPTION 1 GRADING CROSS SECTIONS
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14	S08A-KAP103	TDLE MAINLINE FOR OMFS TRACK PLAN AND PROFILE S FEDERAL WAY ENCHANTED PKWY
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16	S08A-KAP105	TDLE MAINLINE FOR OMFS TRACK PLAN AND PROFILE S FEDERAL WAY ENCHANTED PKWY
17	S08A-KAP106	TDLE MAINLINE FOR OMFS TRACK PLAN AND PROFILE S FEDERAL WAY ENCHANTED PKWY
18	S08A-KAP107	TDLE MAINLINE FOR OMFS TRACK PLAN AND PROFILE S FEDERAL WAY ENCHANTED PKWY
19	S08A-KAP108	TDLE MAINLINE FOR OMFS TRACK PLAN AND PROFILE S FEDERAL WAY ENCHANTED PKWY
20	S08A-KAP109	TDLE MAINLINE FOR OMFS TRACK PLAN AND PROFILE S FEDERAL WAY ENCHANTED PKWY
21	B00-KAP01	TDLE MAINLINE FOR OMFS TRACK PLAN AND PROFILE ALT B (55MPH DESIGN OPTION)
22	B00-KAP02	TDLE MAINLINE FOR OMFS TRACK PLAN AND PROFILE ALT B (55MPH DESIGN OPTION)
23	S08C-KAP201	TDLE MAINLINE FOR OMFS TRACK PLAN AND PROFILE I-5 OPTION
24	S08C-KAP202	TDLE MAINLINE FOR OMFS TRACK PLAN AND PROFILE I-5 OPTION
25	M06B-ASP601	S 336TH ST ARCHITECTURAL SITE PLAN
26	M06B-CGX601	S 336TH ST GRADING CROSS SECTIONS
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29	M06C-CGX701	S 344TH ST GRADING CROSS SECTIONS
30	M06C-CDP751	S 344TH ST CREEK DRAINAGE PLAN

CONCEPTUAL ENGINEERING

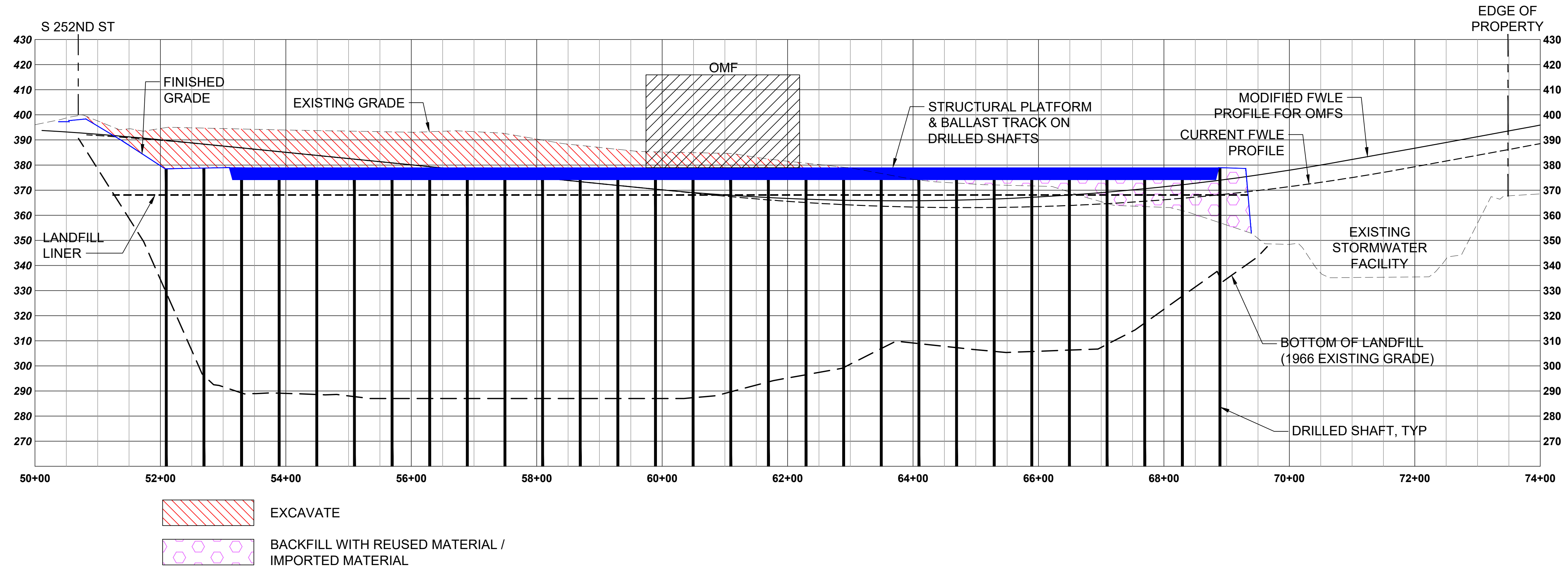
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						APPROVED BY:						iii	
No.	DATE	DSN	CHK	APP	REVISION	T. MUDAYANKAVIL							
						SUBMITTED BY: THOMAS MUDAYANKAVIL	DATE: JULY 1, 2020	REVIEWED BY:	DATE: JULY 1, 2020				

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No.	DATE	DSN	CHK	APP	REVISION



MIDWAY LANDFILL - OPTION 1 , LOW STRUCTURAL PLATFORM

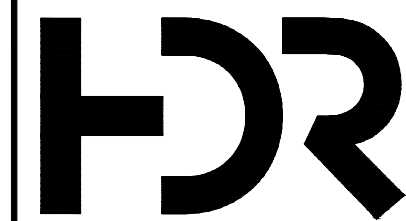
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ENGINEERING

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DESIGNED BY:
P. LOPEZ-HILFIKER
DRAWN BY:
P. LOPEZ-HILFIKER
CHECKED BY:
J. HARPER
APPROVED BY:
P. LOPEZ-HILFIKER



SUBMITTED BY:
THOMAS MUDAYANKAVIL

DATE:
March 1, 2021

REVIEWED BY:

LINE IS 1" AT
FULL SCALE

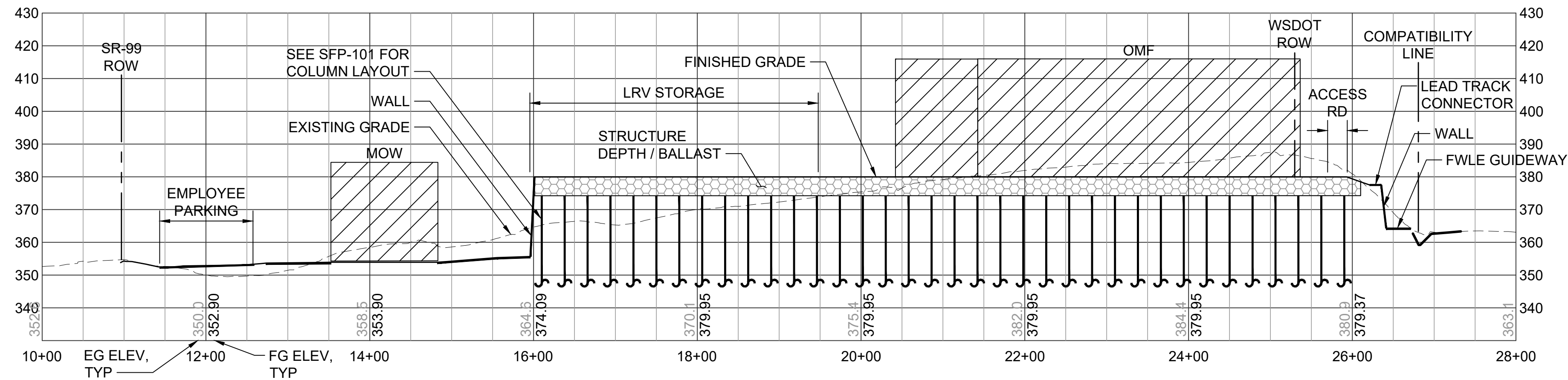


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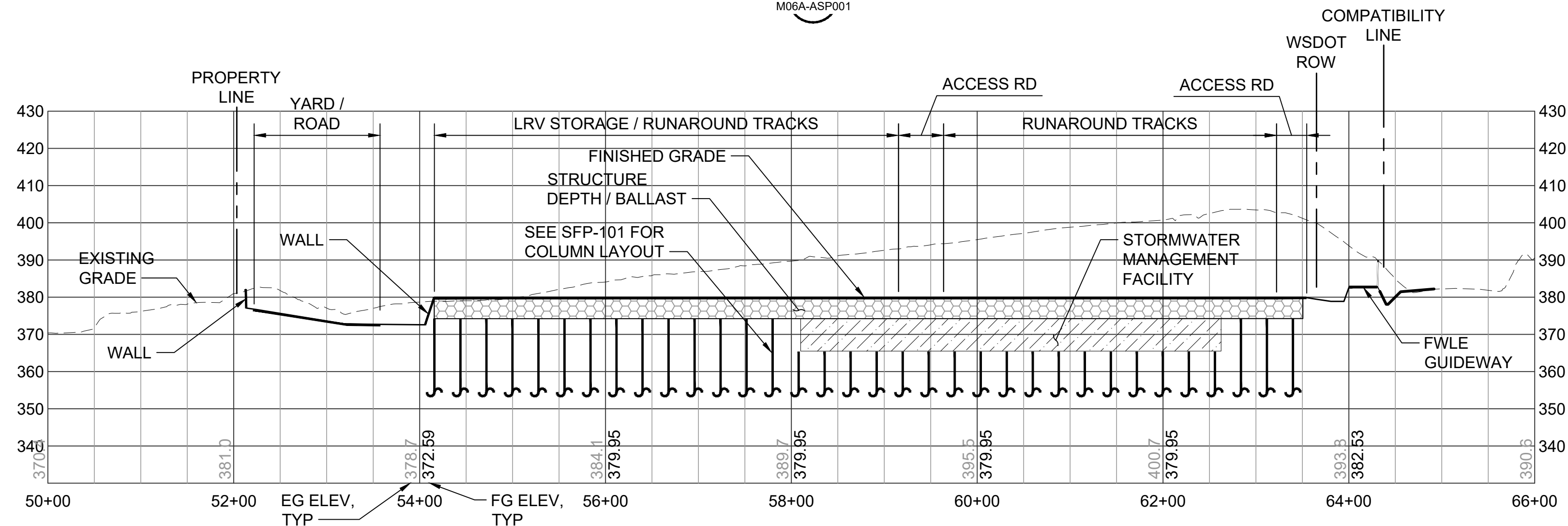
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CONCEPTUAL ENGINEERING
MIDWAY LANDFILL - OPTION 1
GENERAL SITE SECTION

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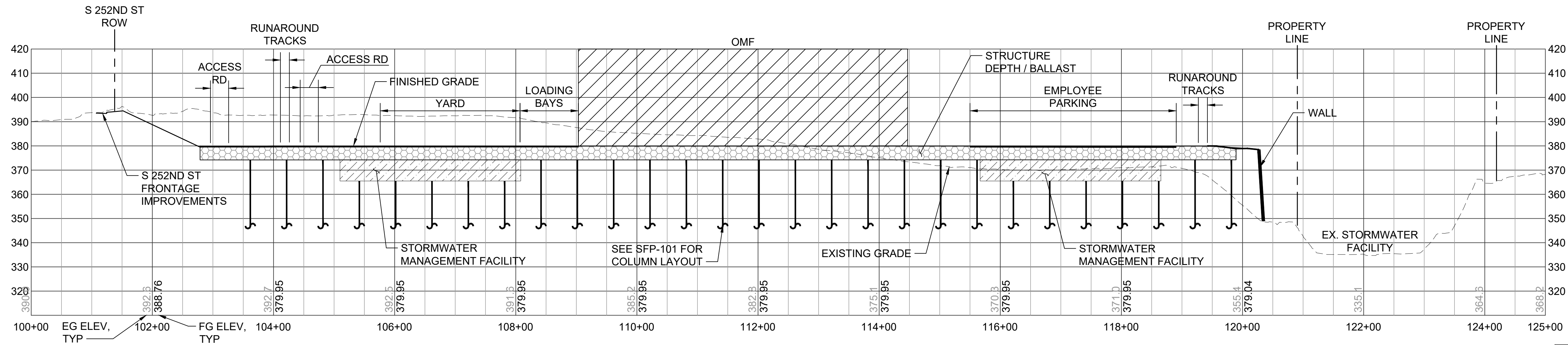
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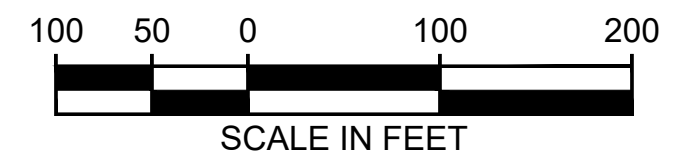
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SECTION B
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SECTION C
M06A-ASP001



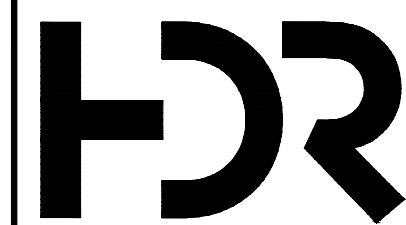
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No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY:
P. LOPEZ-HILFIKER
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J. HARPER
APPROVED BY:
P. LOPEZ-HILFIKER



SUBMITTED BY:
THOMAS MUDAYANKAVIL

DATE:
MARCH 1, 2021

REVIEWED BY:

LINE IS "AT"
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SCALE:
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DATE:
MARCH 1, 2021

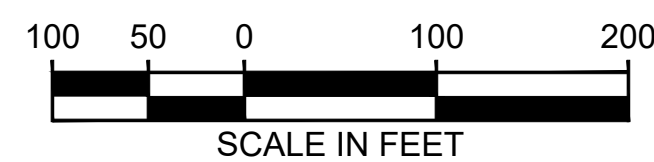
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MIDWAY LANDFILL - OPTION 1
GRADING CROSS SECTIONS

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No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY:
Y. YANG
DRAWN BY:
J. TYLER
CHECKED BY:
J. MERTH
APPROVED BY:
Y. YANG



HR

SUBMITTED BY:
THOMAS MUDAYANKAVIL

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MARCH 1, 2021

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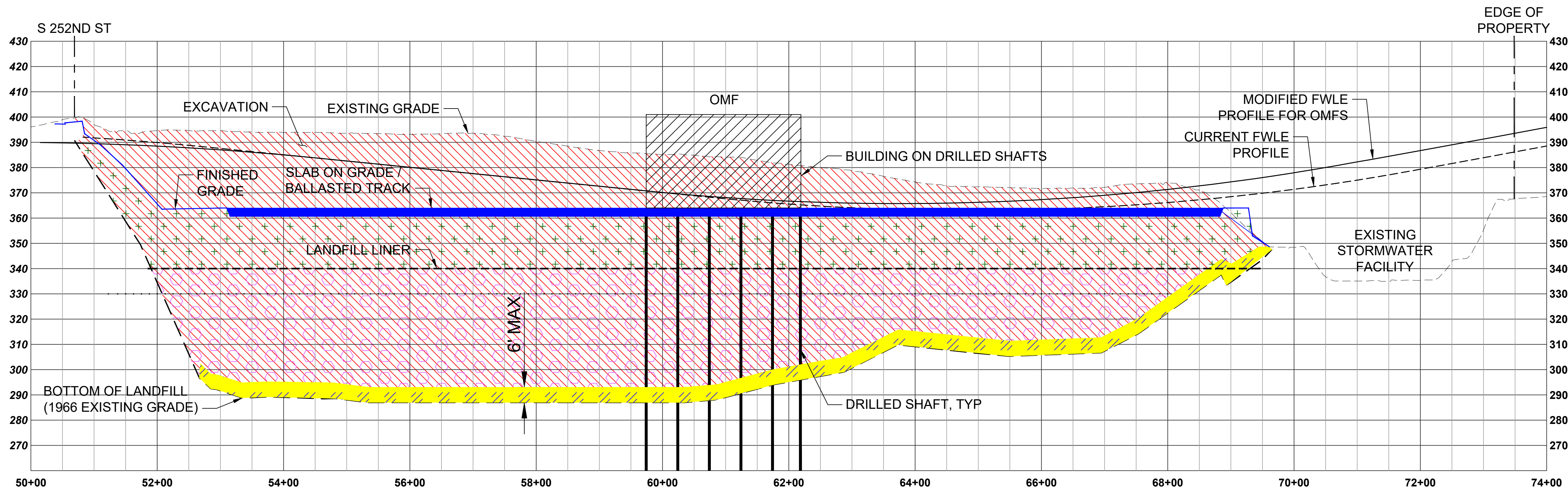
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CONTRACT No.:
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OPERATIONS & MAINTENANCE FACILITY SOUTH
CONCEPTUAL ENGINEERING
MIDWAY LANDFILL - OPTION 1
STRUCTURAL PLATFORM PLAN

DRAWING No.:
M06A-SFP101
FACILITY ID:
SHEET No.:
REV:
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- EXCAVATE
- EXCAVATE & BACKFILL WITH IMPORTED MATERIAL
- EXCAVATE & BACKFILL WITH REUSE MATERIAL
- DEEP DYNAMIC COMPACTION

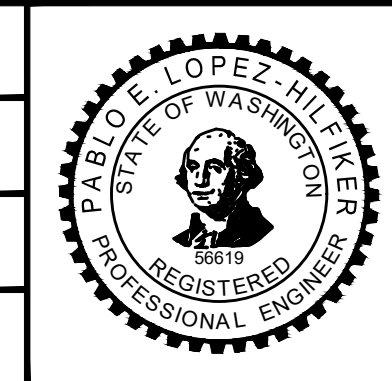
MIDWAY LANDFILL - OPTION 2, HYBRID PLATFORM
SCALE: 1" = 100'

CONCEPTUAL ENGINEERING NOT FOR CONSTRUCTION

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No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY:
P. LOPEZ-HILFIKER
DRAWN BY:
P. LOPEZ-HILFIKER
CHECKED BY:
J. HARPER
APPROVED BY:
P. LOPEZ-HILFIKER



SUBMITTED BY:
THOMAS MUDAYANKAVIL

DATE:
March 1, 2021

REVIEWED BY:

DATE:
March 1, 2021

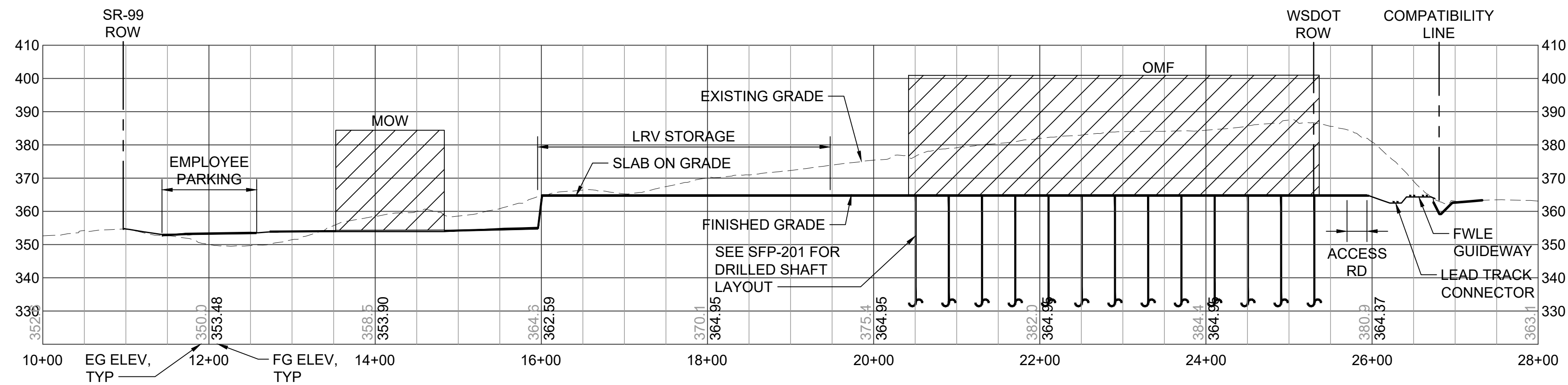
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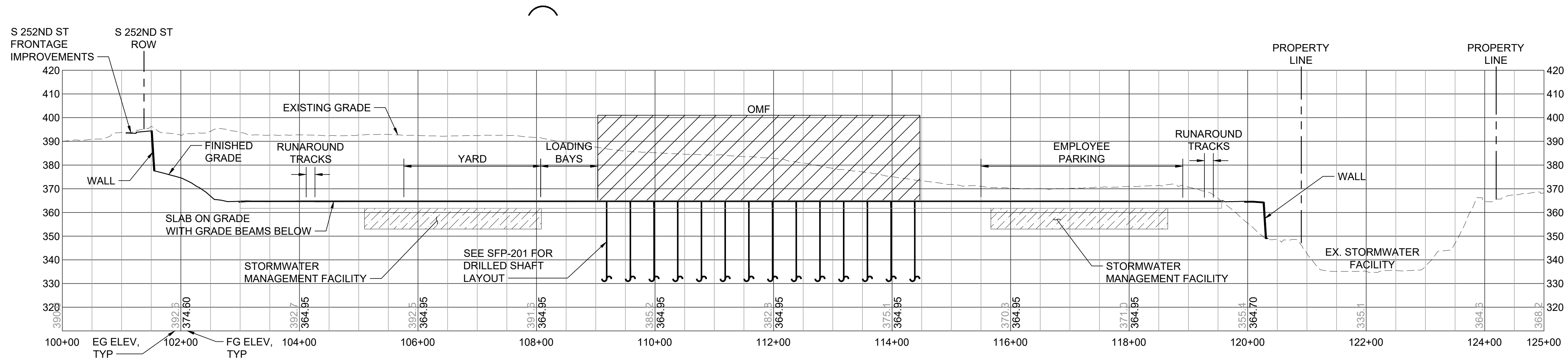
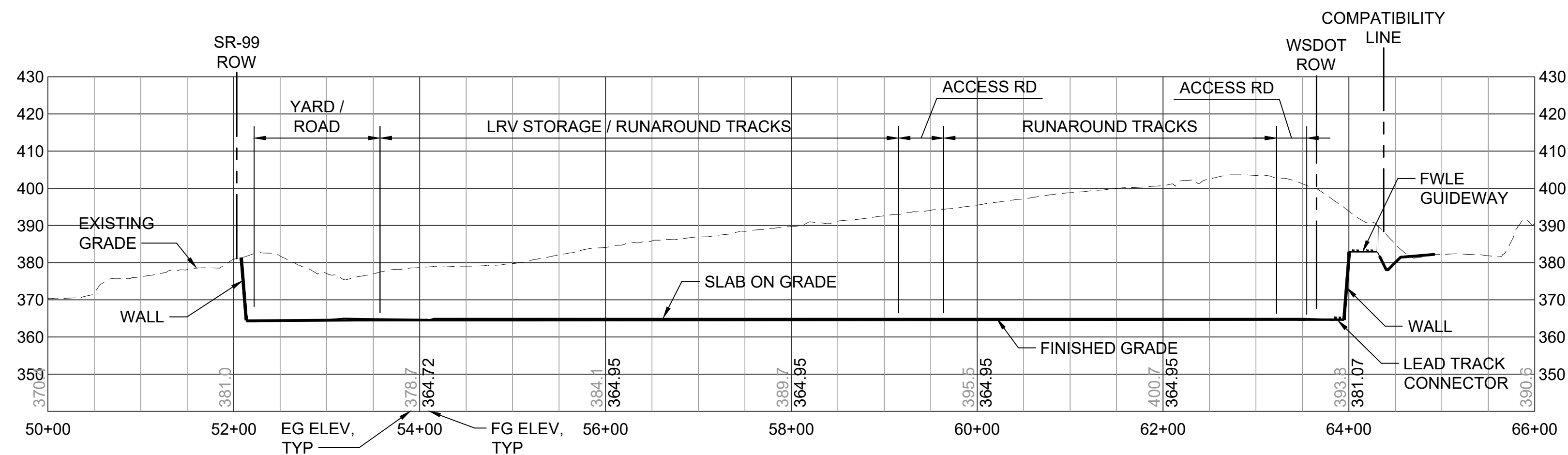
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MIDWAY LANDFILL - OPTION 2
GENERAL SITE SECTION

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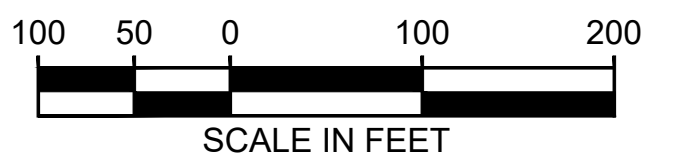
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SECTION A
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SECTION C
M06A-ASP001

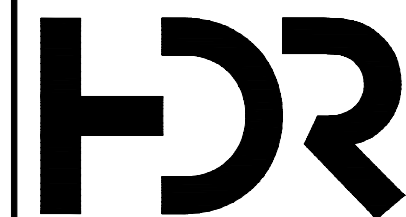


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DESIGNED BY:
P. LOPEZ-HILFIKER
DRAWN BY:
P. LOPEZ-HILFIKER
CHECKED BY:
J. HARPER
APPROVED BY:
T. MUDAYANKAVIL



SUBMITTED BY:
THOMAS MUDAYANKAVIL

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MARCH 1, 2021

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LINE IS "AT"
FULL SCALE



SCALE:
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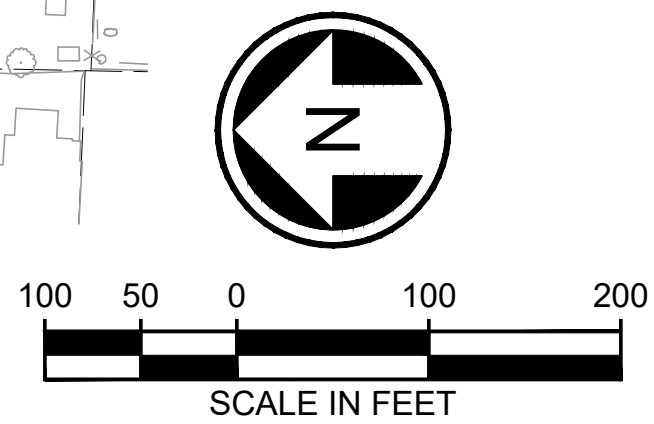
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MIDWAY LANDFILL - OPTION 2
GRADING CROSS SECTIONS

DRAWING No.:
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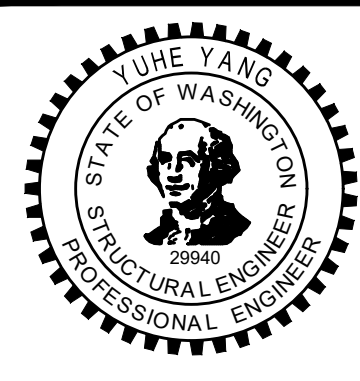
No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY:
Y. YANG

DRAWN BY:
J. TYLER

CHECKED BY:
J. MERTH

APPROVED BY:
Y. YANG



HR

SUBMITTED BY:
THOMAS MUDAYANKAVIL

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MARCH 1, 2021

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DATE:
MARCH 1, 2021

SOUNDTRANSIT

DATE:
MARCH 1, 2021

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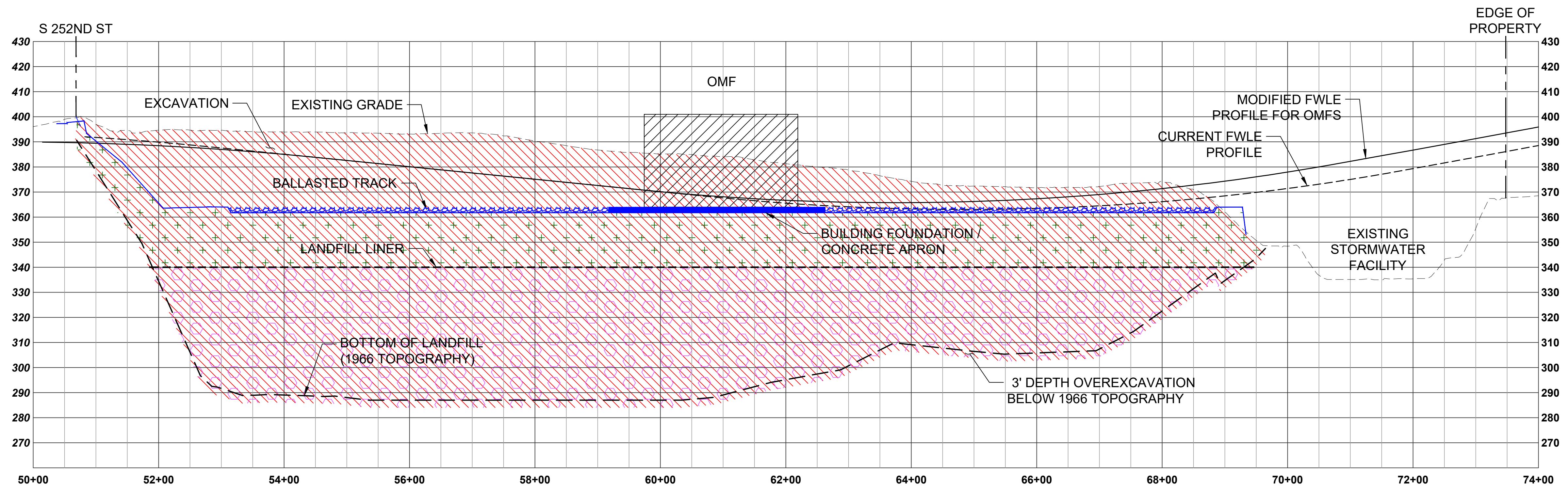
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CONCEPTUAL ENGINEERING
MIDWAY LANDFILL - OPTION 2
STRUCTURAL SLAB PLAN

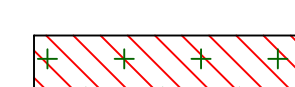
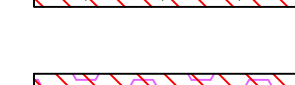
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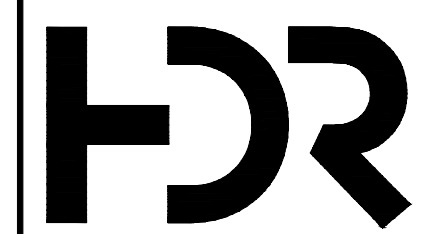


-  EXCAVATE
-  EXCAVATE & BACKFILL WITH IMPORTED MATERIAL
-  EXCAVATE & BACKFILL WITH REUSED MATERIAL

MIDWAY LANDFILL - OPTION 3 , FULL EXCAVATION
SCALE: 1" = 100'

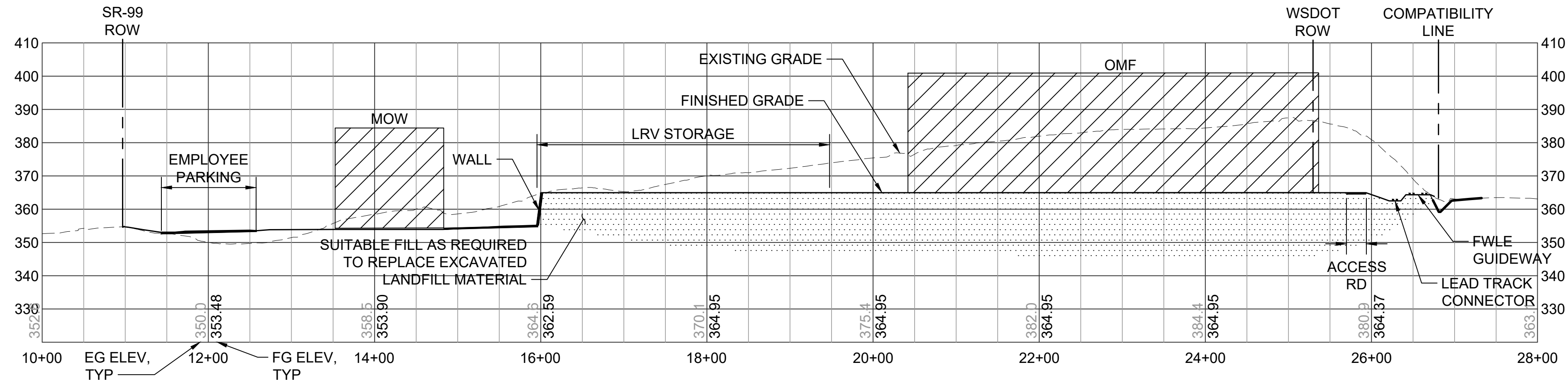
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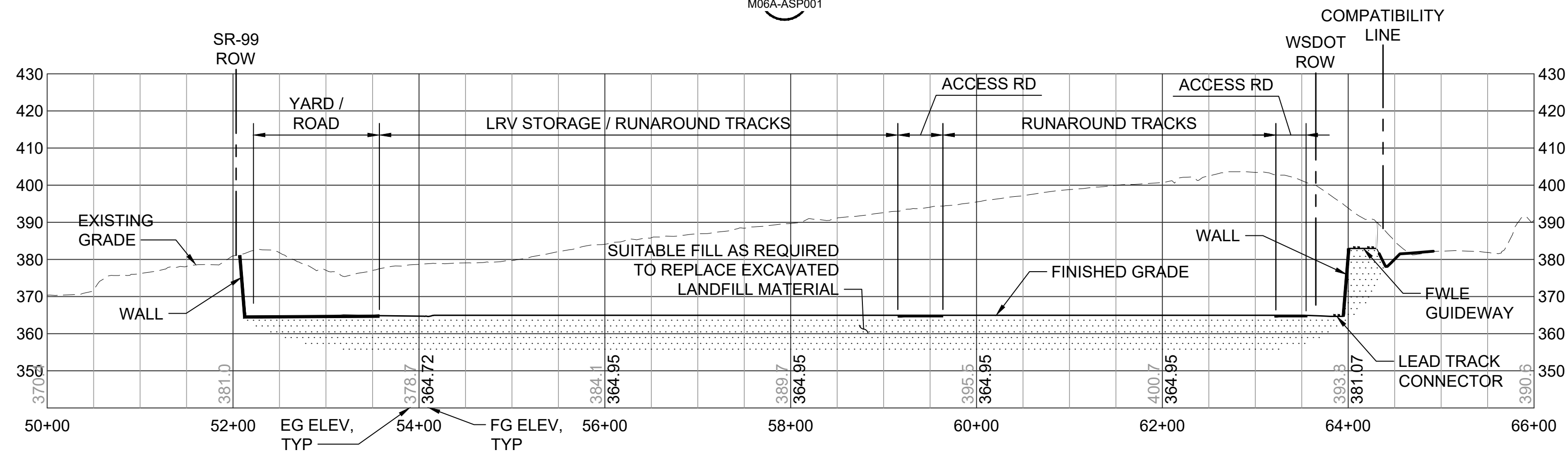
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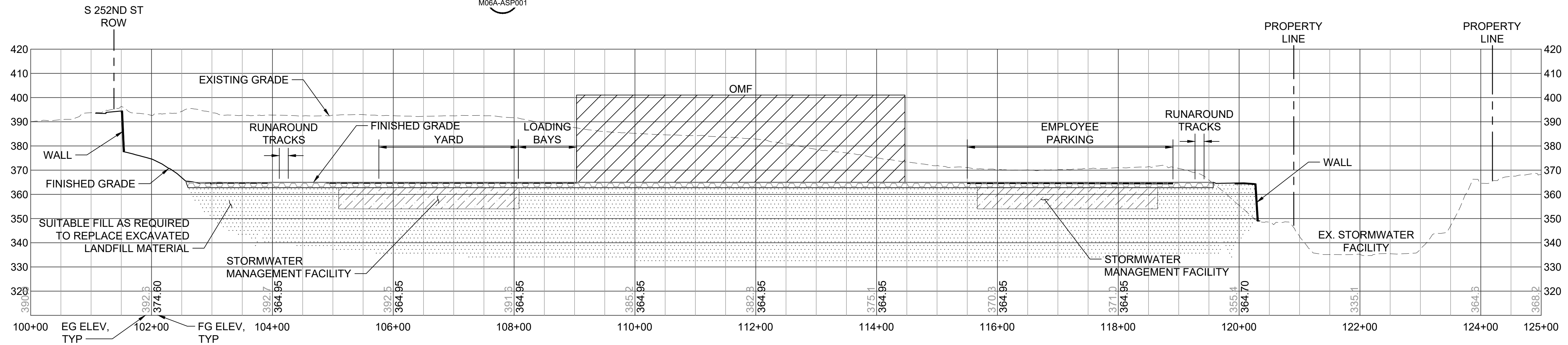
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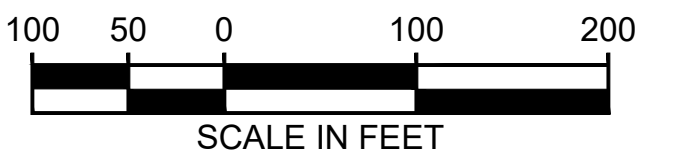
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SECTION B
M06A-ASP001



SECTION C
M06A-ASP001



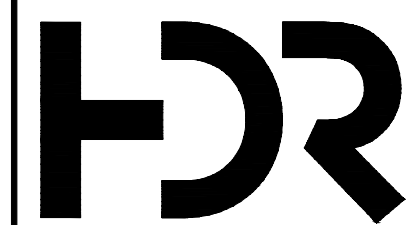
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CONSTRUCTION

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P. LOPEZ-HILFIKER
DRAWN BY:
P. LOPEZ-HILFIKER
CHECKED BY:
J. HARPER
APPROVED BY:
P. LOPEZ-HILFIKER



SUBMITTED BY:
THOMAS MUDAYANKAVIL

DATE:
MARCH 1, 2021

REVIEWED BY:

LINE IS "AT"
FULL SCALE



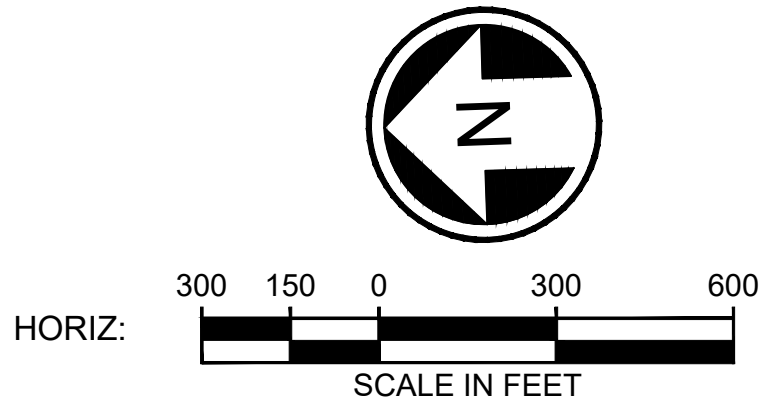
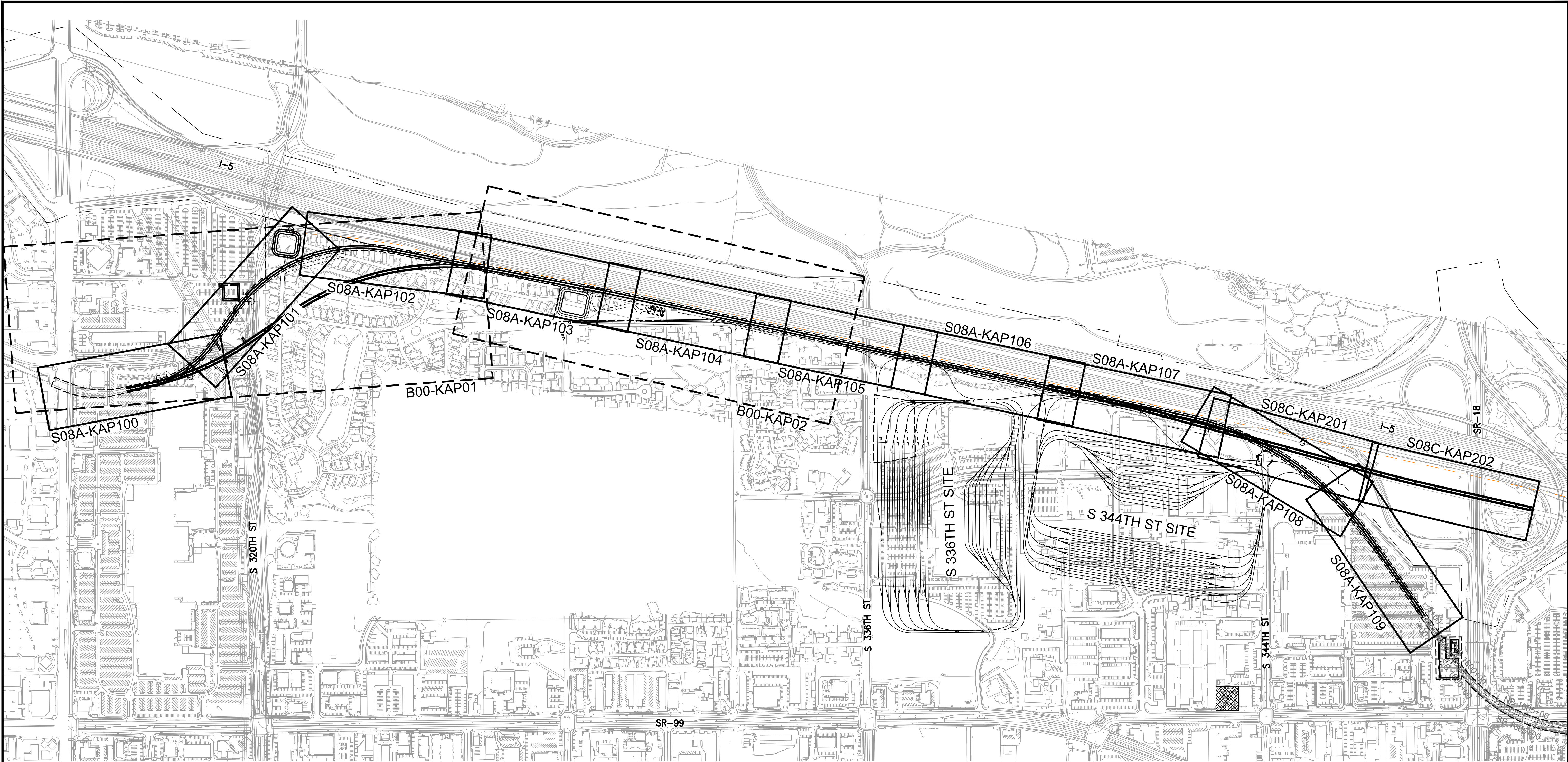
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MARCH 1, 2021

SOUND TRANSIT
OPERATIONS & MAINTENANCE FACILITY SOUTH
CONCEPTUAL ENGINEERING
MIDWAY LANDFILL - OPTION 3
GRADING CROSS SECTIONS

DRAWING No.:
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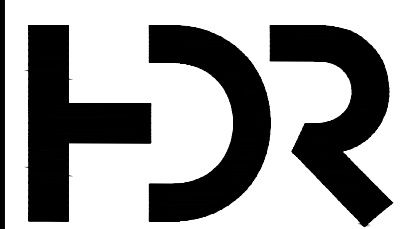
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No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY: H. LIU
DRAWN BY: J. TYLER
CHECKED BY: M. PETERSON
APPROVED BY: T. MUDAYANKAVIL



SUBMITTED BY:
THOMAS MUDAYANKAVIL

DATE:
MARCH 1, 2021

REVIEWED BY:

LINE IS 1" AT
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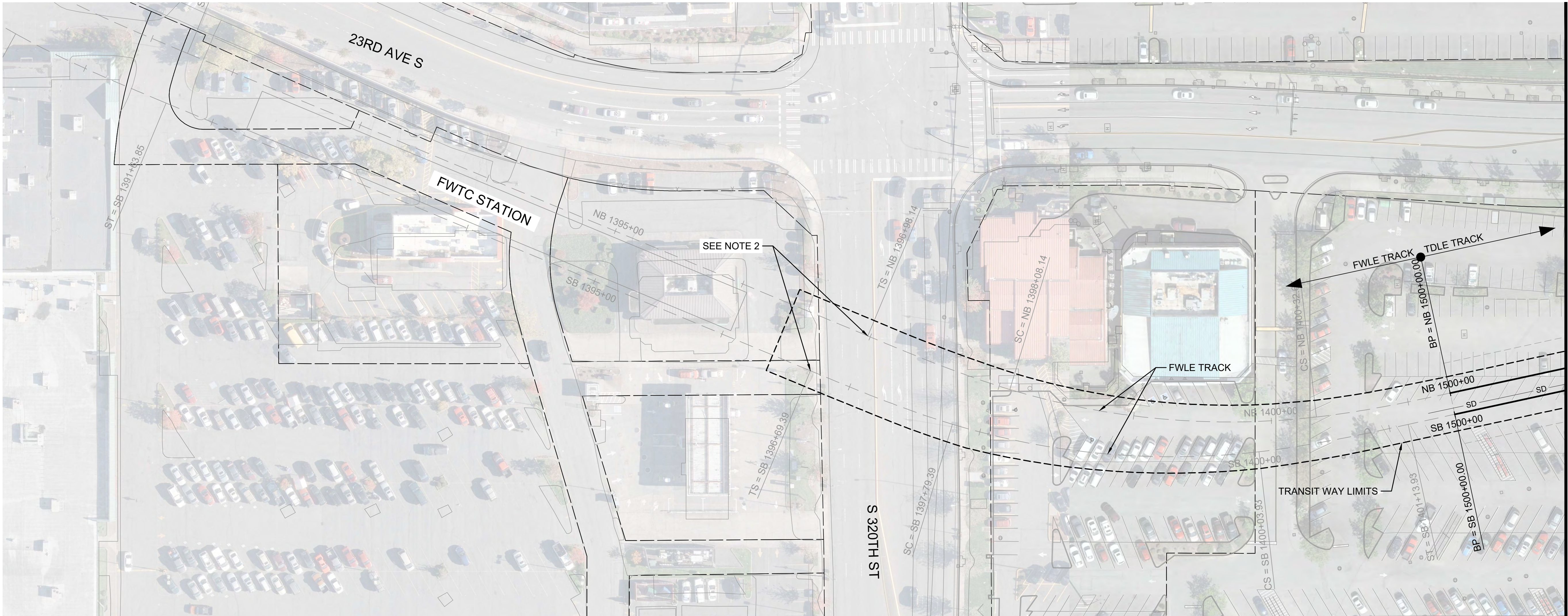
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OPERATIONS & MAINTENANCE FACILITY SOUTH
CONCEPTUAL ENGINEERING

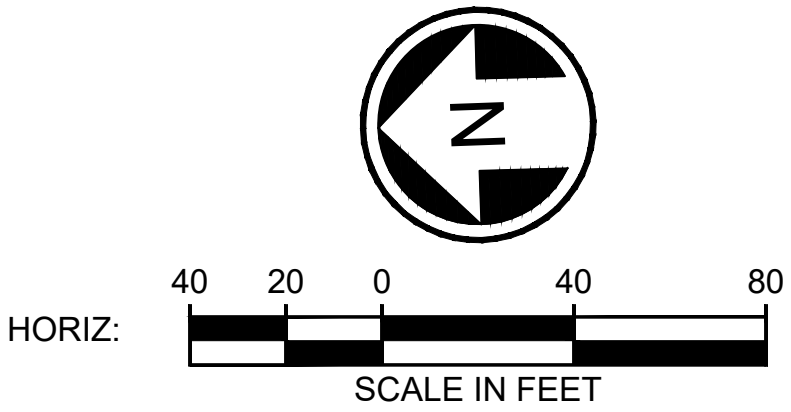
TDLE MAINLINE FOR OMFS
TRACK KEY MAP

DRAWING No.:	S08A-KAP000
FACILITY ID:	
SHEET No.:	10
REV:	



SEE DWG S08A-KAP101

- NOTES:**
- 1. FWLE ALIGNMENT SHOWN IS BASED OFF OF 60% DESIGN. TDLE DESIGN WILL BE UPDATED TO TIE INTO FWLE 90% WHEN AVAILABLE.
 - 2. FWLE INTERIM TAIL TRACKS ARE ON HORIZONTAL CURVES DESIGNED WITH NO SUPERELEVATION. TDLE WILL NEED TO RECONSTRUCT THESE CURVES WITH Ea= 3.50", Eu= 2.98", AND 30 MPH DESIGN SPEED.



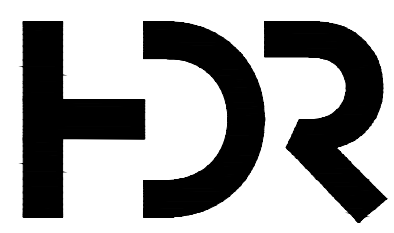
CONCEPTUAL
ENGINEERING

NOT FOR
CONSTRUCTION

10% CONCEPTUAL ENGINEERING

No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY: H. LIU
DRAWN BY: J. TYLER
CHECKED BY: M. PETERSON
APPROVED BY: T. MUDAYANKAVIL



SUBMITTED BY: THOMAS MUDAYANKAVIL	DATE: MARCH 1, 2021	REVIEWED BY:	DATE: MARCH 1, 2021
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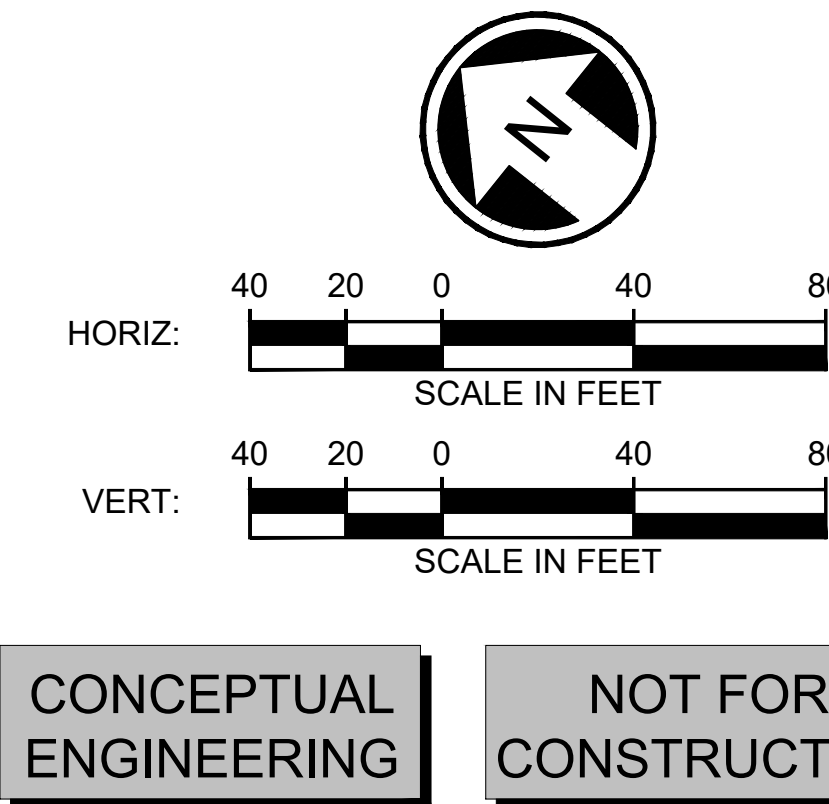
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FULL SCALE

SCALE: 1"=40'
FILENAME:
CONTRACT No.:
DATE:

SOUND TRANSIT
OPERATIONS & MAINTENANCE FACILITY SOUTH
CONCEPTUAL ENGINEERING

TDLE MAINLINE FOR OMFS
TRACK PLAN AND PROFILE
S FEDERAL WAY ENCHANTED PKWY

DRAWING No.:	
S08A-KAP100	
FACILITY ID:	
SHEET No.:	REV:
11	



No.	DATE	DSN	CHK	APP	REVISION

SUBMITTED BY:
THOMAS MUDAYANKAVIL

REVIEWED BY:

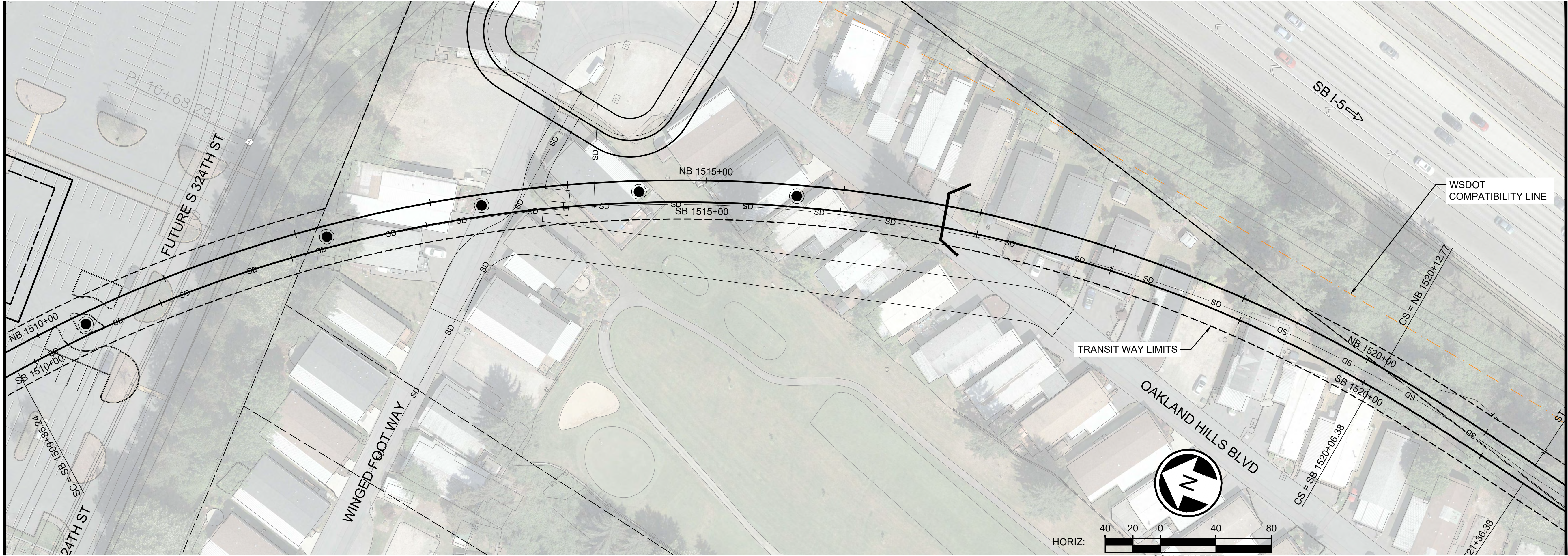


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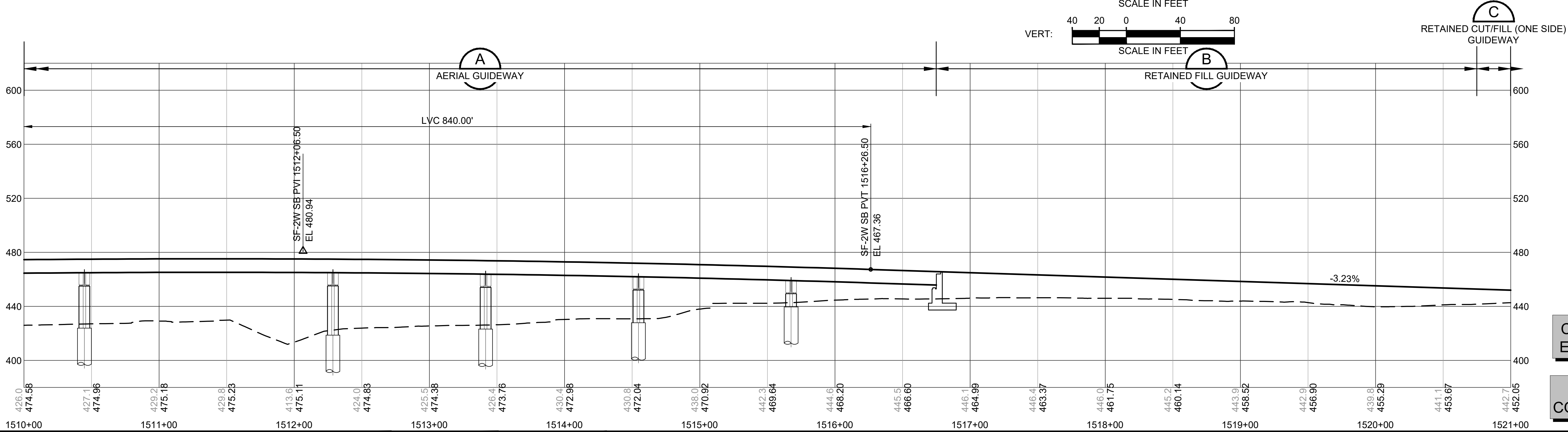
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SHEET No.:	REV:
12	

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SEE DWG S08A-KAP101



SEE DWG S08A-KAP103

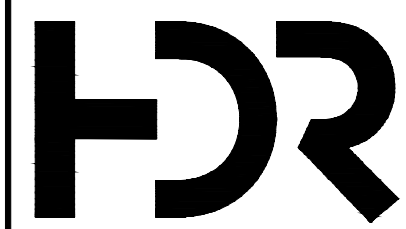


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H. LIU
DRAWN BY:
J. TYLER
CHECKED BY:
M. PETERSON
APPROVED BY:
T. MUDAYANKAVIL



SUBMITTED BY:
THOMAS MUDAYANKAVIL

DATE:
MARCH 1, 2021

REVIEWED BY:

LINE IS 1" AT
FULL SCALE



DATE:
MARCH 1, 2021

SCALE:
1"=40'
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DATE:

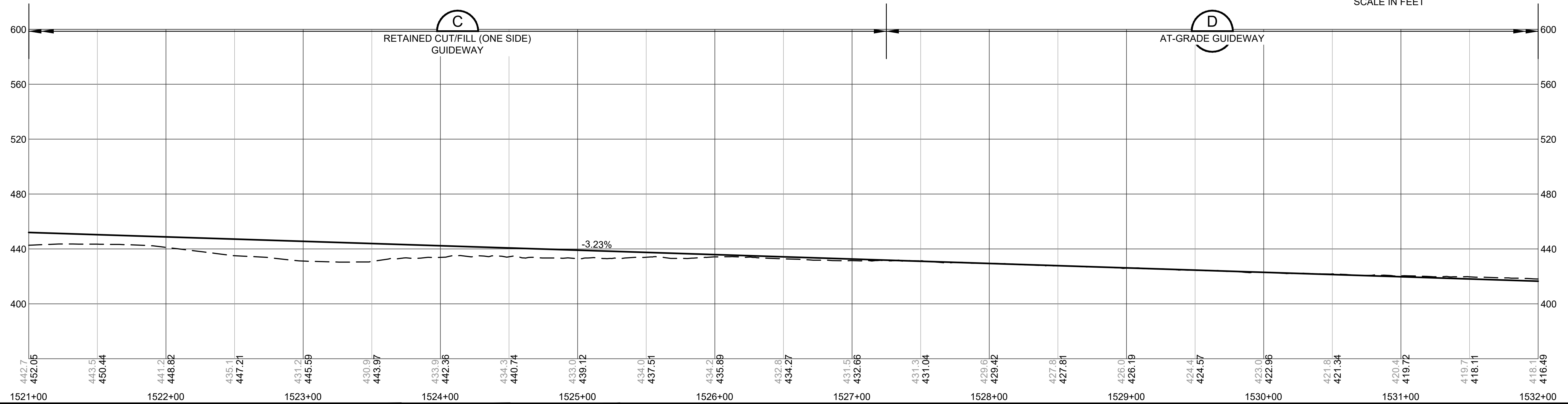
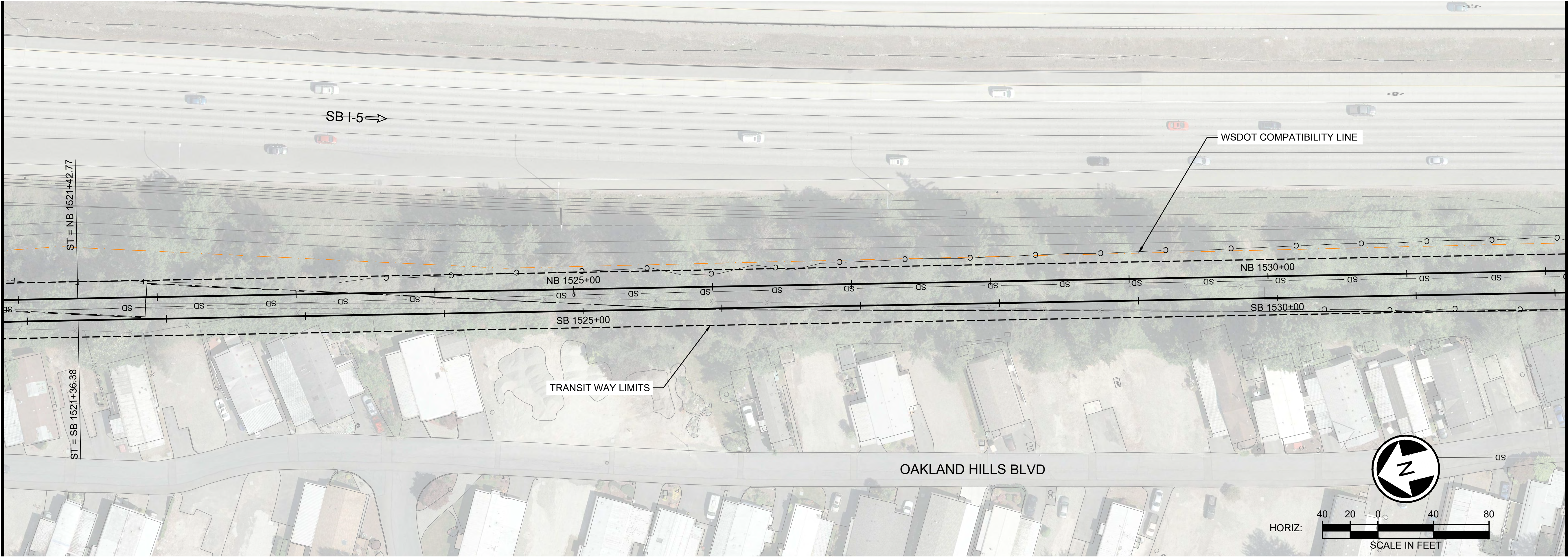
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TDLE MAINLINE FOR OMFS
TRACK PLAN AND PROFILE
S FEDERAL WAY ENCHANTED PKWY

DRAWING No.:
S08A-KAP102
FACILITY ID:
SHEET No.:
REV:
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SEE DWG S08A-KAP102

SEE DWG S08A-KAP104

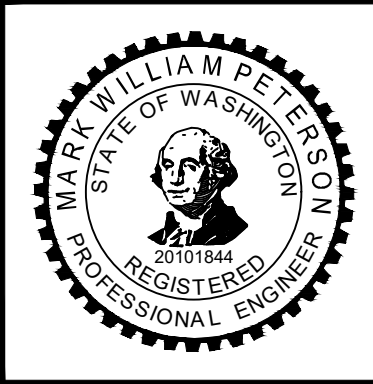


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No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY:	H. LIU
DRAWN BY:	J. TYLER
CHECKED BY:	M. PETERSON
APPROVED BY:	T. MUDAYANKAVIL



SUBMITTED BY:
THOMAS MUDAYANKAVIL

DATE:
MARCH 1, 2021

REVIEWED BY:

LINE IS 1" AT
FULL SCALE

SCALE: 1"=40'
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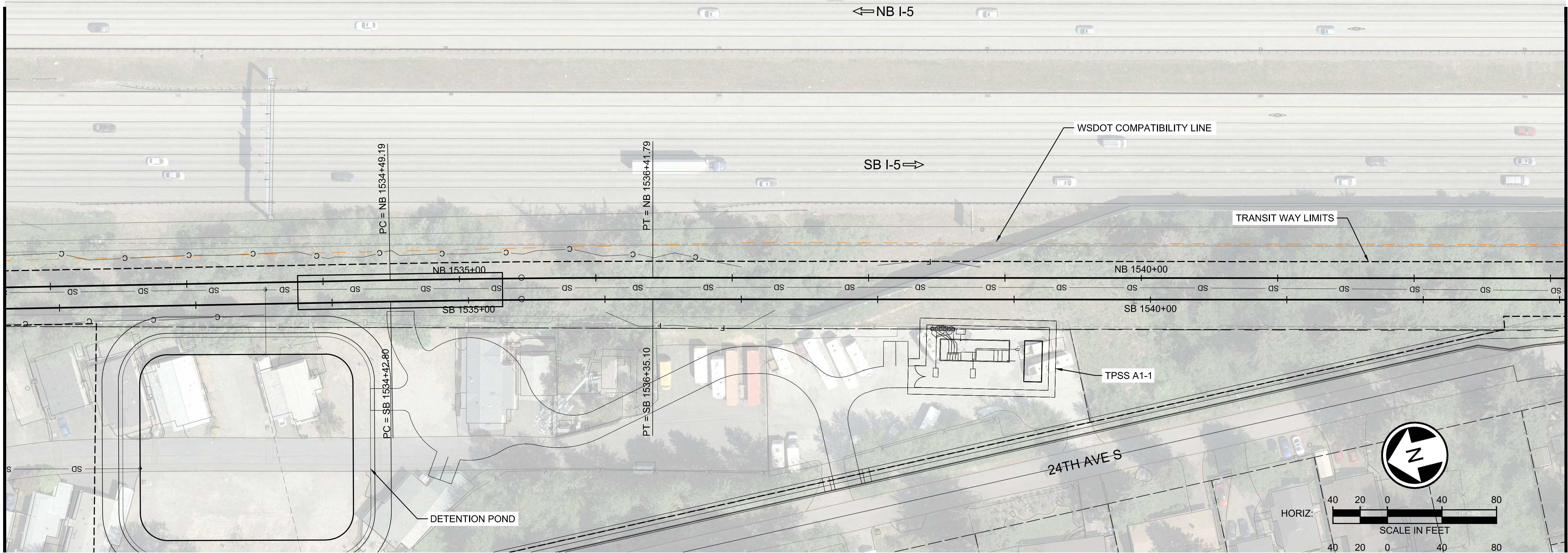
SOUND TRANSIT
OPERATIONS & MAINTENANCE FACILITY SOUTH
CONCEPTUAL ENGINEERING

TDL MAINLINE FOR OMFS
TRACK PLAN AND PROFILE
S FEDERAL WAY ENCHANTED PKWY

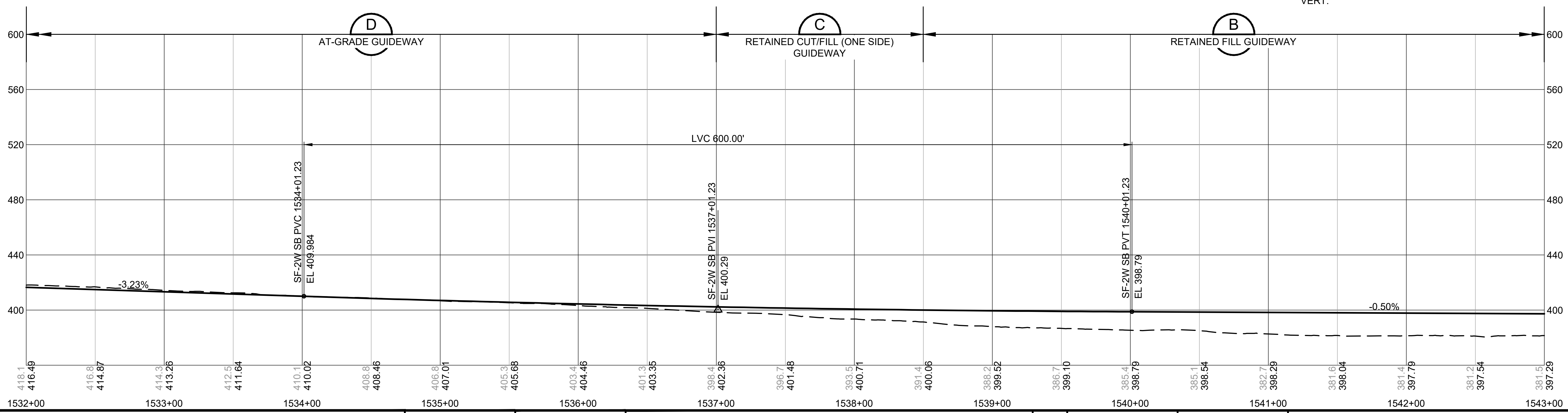
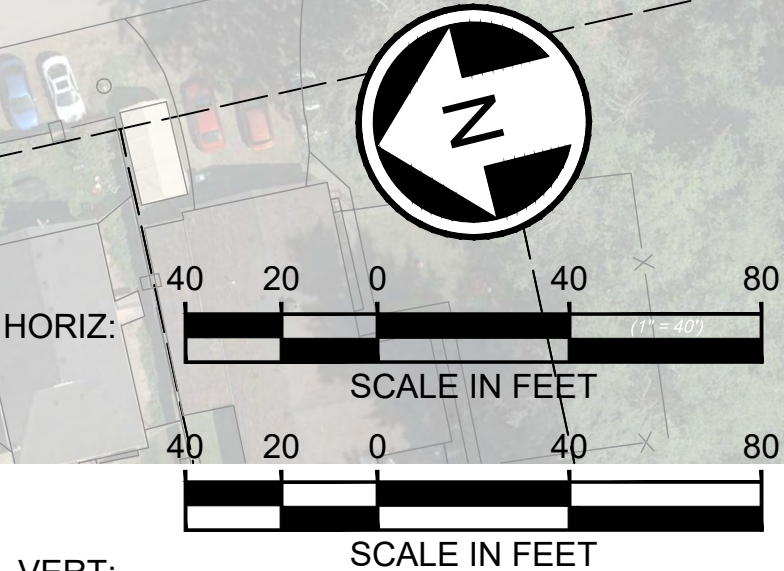
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FACILITY ID:	
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SEE DWG S08A-KAP103



SEE DWG S08A-KAP105

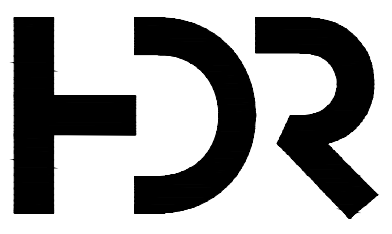


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DESIGNED BY:
H. LIU
DRAWN BY:
J. TYLER
CHECKED BY:
M. PETERSON
APPROVED BY:
T. MUDAYANKAVIL



SUBMITTED BY:
THOMAS MUDAYANKAVIL

DATE:
MARCH 1, 2021

REVIEWED BY:



DATE:
MARCH 1, 2021

SCALE:
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FILENAME:
CONTRACT No.:
DATE:

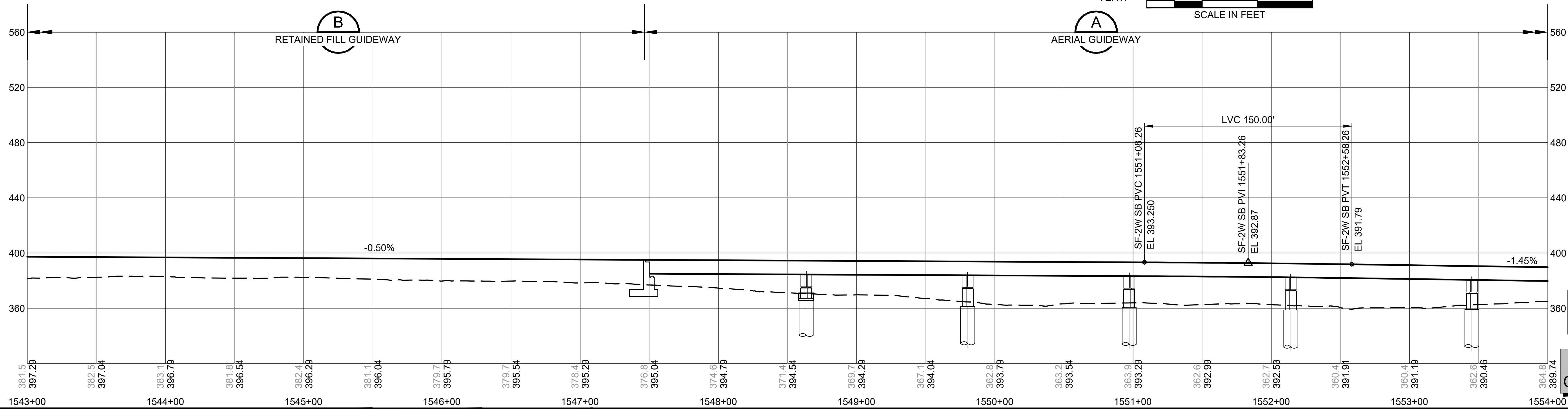
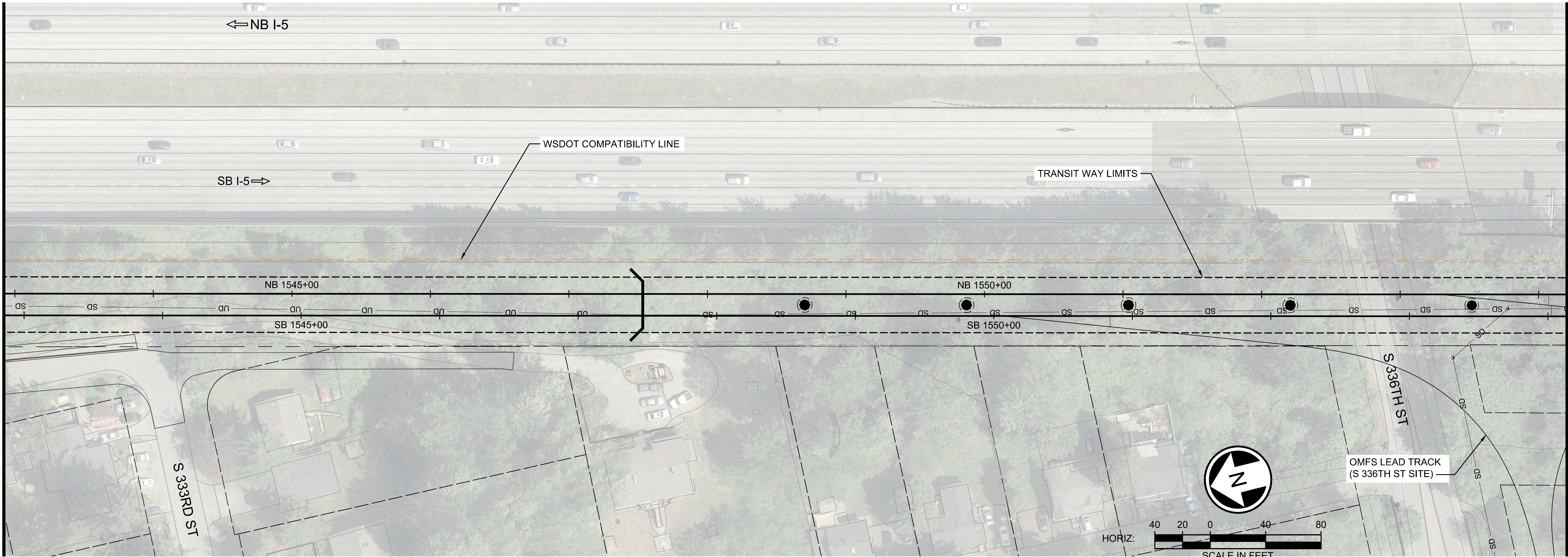
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CONCEPTUAL ENGINEERING
TDLE MAINLINE FOR OMFS
TRACK PLAN AND PROFILE
S FEDERAL WAY ENCHANTED PKWY

DRAWING No.:
S08A-KAP104
FACILITY ID:
SHEET No.:
REV:
15

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SEE DWG S08A-KAP104

SEE DWG S08A-KAP106

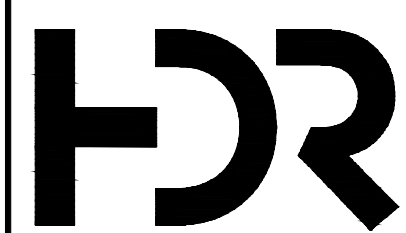


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DESIGNED BY:
H. LIU
DRAWN BY:
J. TYLER
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T. MUDAYANKAVIL



SUBMITTED BY:
THOMAS MUDAYANKAVIL

DATE:
MARCH 1, 2021

REVIEWED BY:



DATE:
MARCH 1, 2021

SCALE:
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FILENAME:
CONTRACT No.:
DATE:

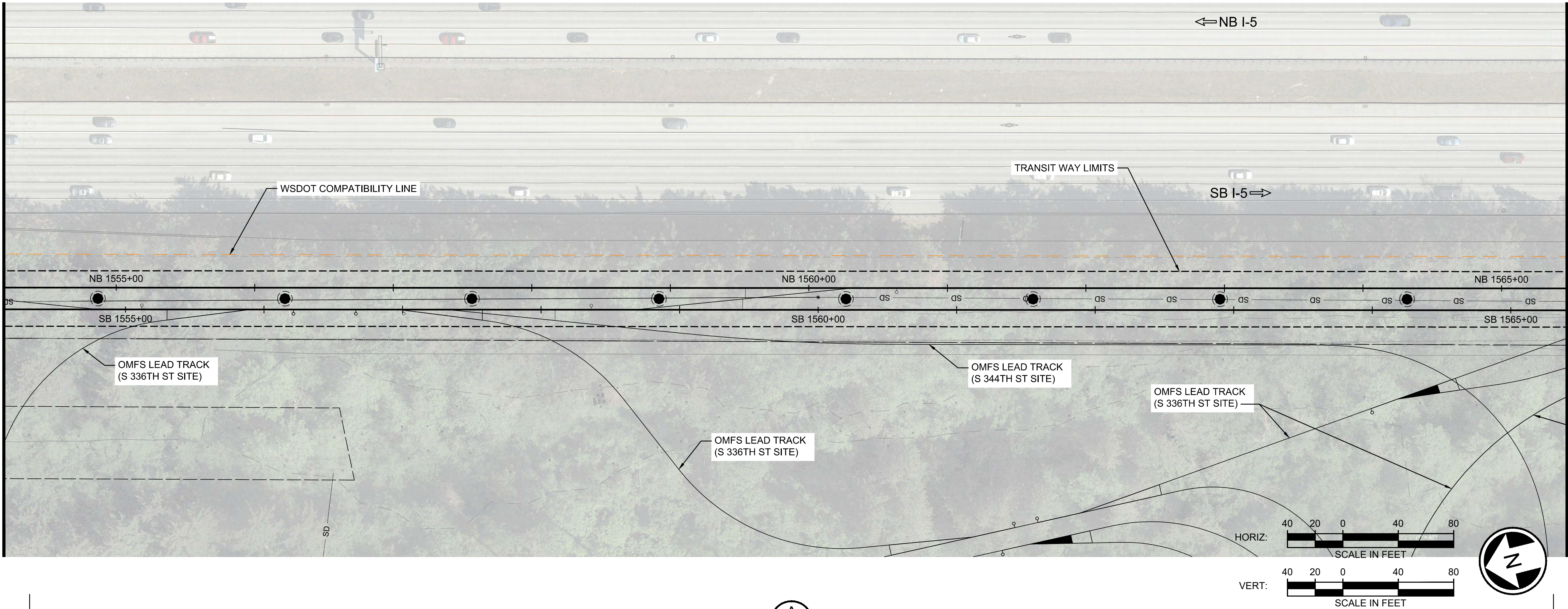
SOUND TRANSIT
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CONCEPTUAL ENGINEERING
TDLE MAINLINE FOR OMFS
TRACK PLAN AND PROFILE
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DRAWING No.:
S08A-KAP105
FACILITY ID:
SHEET No.:
REV:
16

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SEE DWG S08A-KAP105

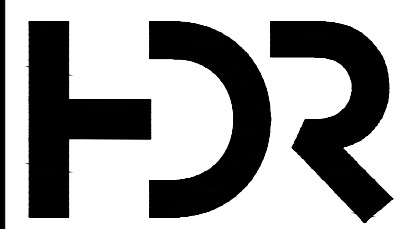
SEE DWG S08A-KAP107



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No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY:
H. LIU
DRAWN BY:
J. TYLER
CHECKED BY:
M. PETERSON
APPROVED BY:
T. MUDAYANKAVIL



SUBMITTED BY:
THOMAS MUDAYANKAVIL

DATE:
MARCH 1, 2021

REVIEWED BY:

LINE IS 1" AT
FULL SCALE



DATE:
MARCH 1, 2021

SCALE:
1"=40'
FILENAME:
CONTRACT No.:
DATE:

SOUND TRANSIT
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CONCEPTUAL ENGINEERING
TDLE MAINLINE FOR OMFS
TRACK PLAN AND PROFILE
S FEDERAL WAY ENCHANTED PKWY

DRAWING No.:
S08A-KAP106
FACILITY ID:
SHEET No.:
REV:
17

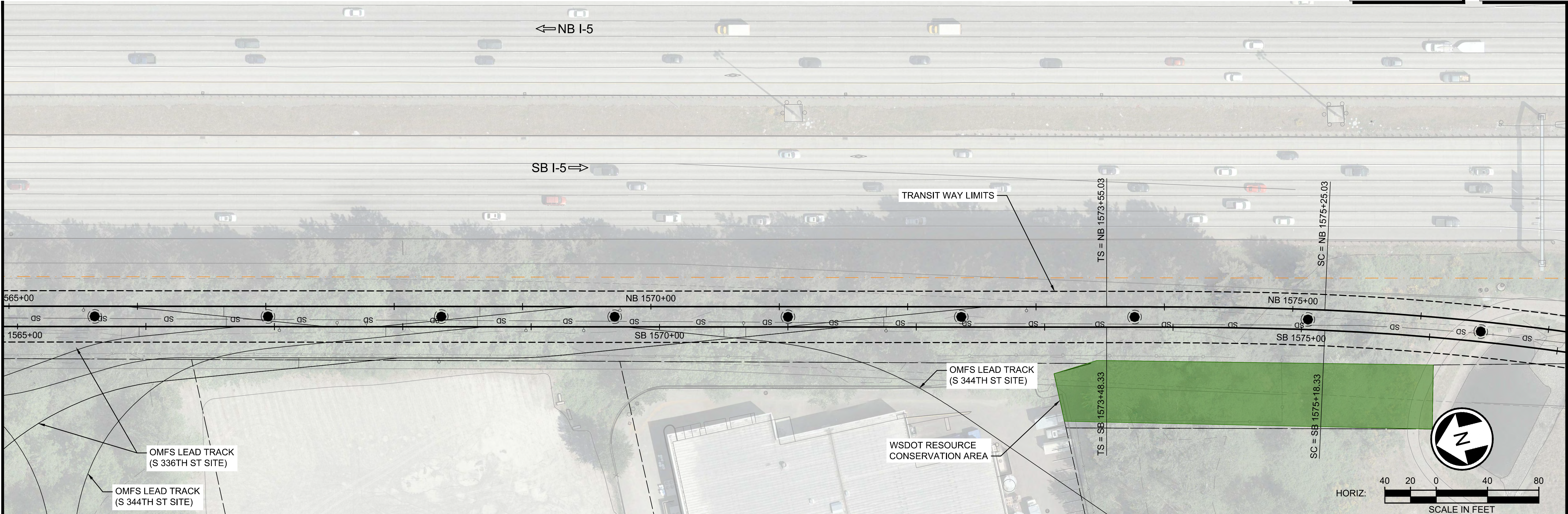
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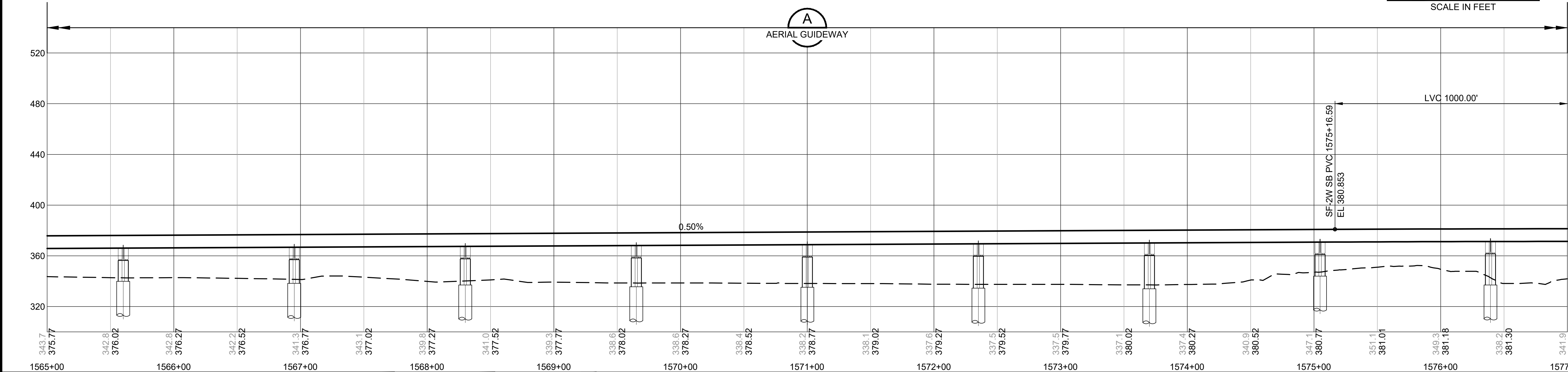
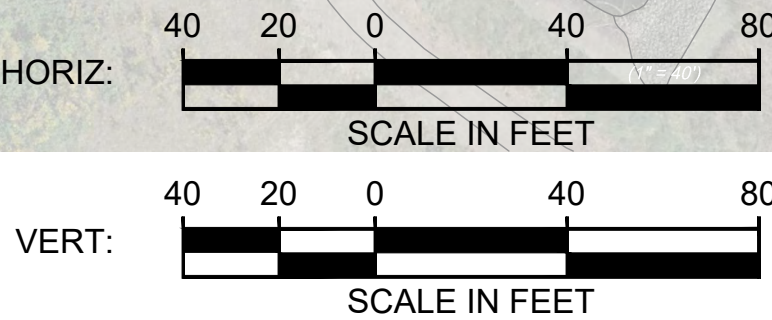
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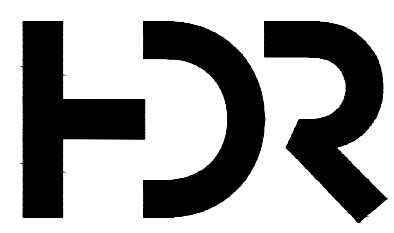
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CONSTRUCTION

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SEE DWG S08A-KAP108 FOR ENCHANTED PARKWAY ALIGNMENT
SEE DWG S08C-KAP201 FOR I-5 ALIGNMENT



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						DRAWN BY: J. TYLER								FACILITY ID:		
						CHECKED BY: M. PETERSON								SHEET No.: 18		
						APPROVED BY: T. MUDAYANKAVIL								REV:		
No.	DATE	DSN	CHK	APP	REVISION											