



Appendix E. Engineering Drawings (Part 2 of 10)



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SHEET INDEX

General

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Drainage

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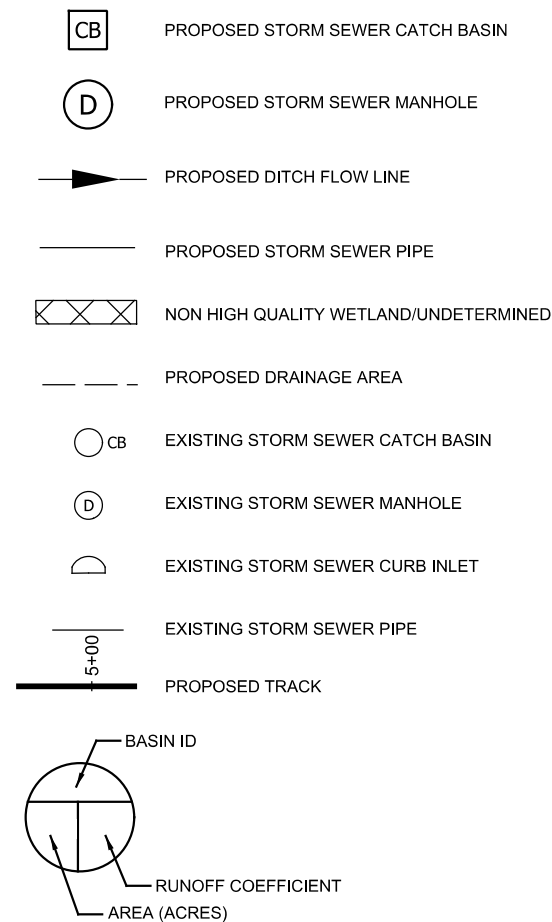
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NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18 SINGLE TRACK		
SHEET INDEX		
FILENAME	_SHT_WL_DR_CV_01A_Index.dgn	SHEET
SCALE	AS NOTED	2 OF 64

LEGEND



ABBREVIATIONS

ALG	ALIGNMENT	N	NORTHING
APPROX	APPROXIMATE	NIC	NOT IN CONTRACT
AVE	AVENUE	NICTD	NORTHERN INDIANA COMMUTER TRANSPORTATION DISTRICT
B/L	BASE LINE	NIPSCO	NORTHERN INDIANA PUBLIC SERVICE COMPANY
BLDG	BUILDING	N.T.S.	NOT TO SCALE
BM	BENCH MARK	NO., #	NUMBER
BOC	BEGINNING OF CONSTRUCTION	NS	NORFOLK SOUTHERN
CB	CATCH BASIN	OCS	OVERHEAD CATENARY SYSTEM
CL	CENTERLINE	OFF	OFFSET
CMP	CORRUGATED METAL PIPE	OHP	OVERHEAD POWER
CN	CANADIAN NATIONAL	OVH	OVERHEAD
CONC	CONCRETE	PC	POINT OF CURVE
CONSTR	CONSTRUCTION	PGL	PROFILE GRADE LINE
CS	CURVE TO SPIRAL	PI	POINT OF INTERSECTION
CSS	CHICAGO SOUTH SHORE	PITO	POINT OF INTERSECTION OF TURNOUT
CSXT	CSX TRANSPORTATION	PL	PLACE
CWR	CONTINUOUSLY WELDED RAIL	POB	POINT OF BEGINNING
CY	CUBIC YARD	POE	POINT OF ENDING
Dc	DEGREE OF CURVE	POTO	POWER OPERATED TURNOUT
DI	DUCTILE IRON	PR, PROP	PROPOSED
DIAM.	DIAMETER	PS	POINT OF SWITCH
DOT	DEPARTMENT OF TRANSPORTATION	PT	POINT OF TANGENCY, POINT
DSPD	DUAL SWITCH POINT DERAILS	PVC	POINT OF VERTICAL CURVE
DWG	DRAWING	PVI	POINT OF VERTICAL INTERSECTION
E	EASTING	PVT	POINT OF VERTICAL TANGENCY
Ea	SUPERELEVATION	R	RADIUS
EA	EACH	RCB	REINFORCED CONCRETE BOX
E.L.	ELECTRIC LOCK	RE	RAILWAY ENGINEERED, AREMA APPROVED RAIL SECTION
ELEC	ELECTRICAL	REQ	REQUIRED
ELEV, EL	ELEVATION	REV	REVISION
ENGR	ENGINEER	RH	RIGHT HAND
EOP	END OF PLATFORM	RR	RAILROAD
EXIST, EX	EXISTING	RT	RIGHT, ROUTE
FOTS	FIBER OPTIC TRANSMISSION SYSTEM	R/W, ROW	RIGHT-OF-WAY
FT	FOOT, FEET	S	SOUTH
FUT	FUTURE	SC	SPIRAL TO CURVE
G	GAS	SD	STORM DRAIN
GTLT	GAUNTLET	SDG	SIDING
GWY	GREENWAY	SDWLK	SIDEWALK
GND	GROUND	SF	SQUARE FOOT
HDPE	HIGH DENSITY POLYETHYLENE	SS	SANITARY SEWER, SOUTH SHORE or SPIRAL TO SPIRAL
HORZ	HORIZONTAL	STA	STATION
HTTO	HAND THROW TURNOUT	ST	STREET, SPIRAL TO TANGENT
HMA	HOT MIX ASPHALT	STD	STANDARD
IHB	INDIANA HARBOR BELT	STM, SD	STORM SEWER, STORM DRAIN
INV	INVERT	SW	SWITCH
LB	POUND	TEMP	TEMPORARY
Lc	LENGTH OF CURVE	TF	TRACK FOOT, TRACK FEET
LH	LEFT HAND	T.O.	TURNOUT
Ls	LENGTH OF SPIRAL	TOR	TOP OF RAIL
LIN FT, LF	LINEAR FOOT	TRK	TRACK
LLT	LAST LONG TIE	TS	TANGENT TO SPIRAL
LN	LANE	TYP, TYP.	TYPICAL
LOCO	LOCOMOTIVE	UG	UNDERGROUND
LT	LEFT	V	VELOCITY
MAX	MAXIMUM	VC	VERTICAL CURVE
MH	MANHOLE	W	WATER, WEST
MIN	MINIMUM	XOVER	CROSSOVER
MISC	MISCELLANEOUS	XING	CROSSING
MOW	MAINTENANCE OF WAY	YD	YARD
MP	MILEPOST		

GENERAL NOTES

- THE EXISTENCE, LOCATION, AND ELEVATION OF UTILITIES AND/OR CONCEALED STRUCTURES AT THE PROJECT SITE ARE NOT GUARANTEED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXISTENCE, LOCATION, AND ELEVATION OF ALL SUCH UTILITIES AND/OR STRUCTURES AND IS RESPONSIBLE FOR NOTIFYING THE APPROPRIATE COMPANY, DEPARTMENT, OR PERSON(S) OF ITS INTENTION TO CARRY OUT ITS OPERATIONS.
- DETENTION PIPES DISPLAYED PARALLEL TO DITCH FLOW LINES IN THE PLAN VIEW ARE LOCATED DIRECTLY UNDERNEATH THE DITCH FLOW LINES UNLESS SHOWN OTHERWISE IN THE TYPICAL CROSS SECTIONS. DETENTION PIPES ARE SHOWN AS OFFSET FOR CLARITY.

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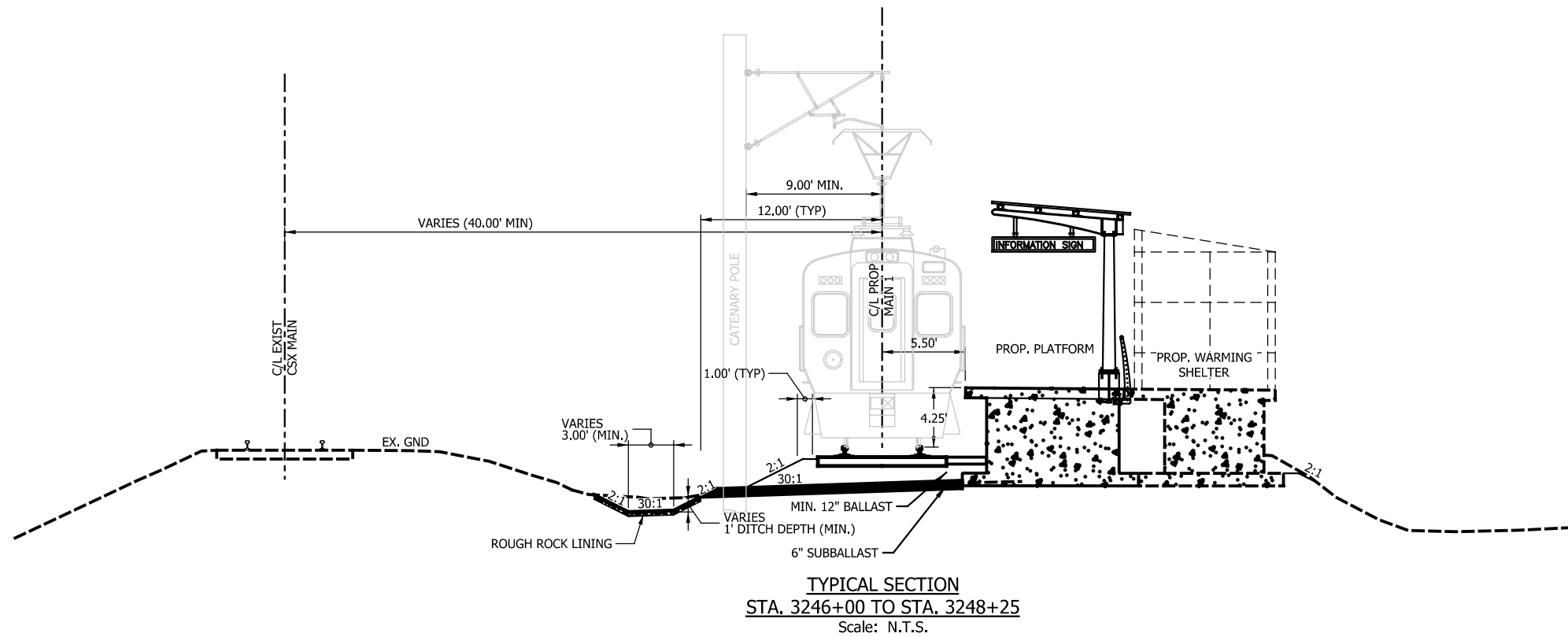
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NOT FOR CONSTRUCTION SERIES DRNGN-1 OF DRNGN-1

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18 SINGLE TRACK

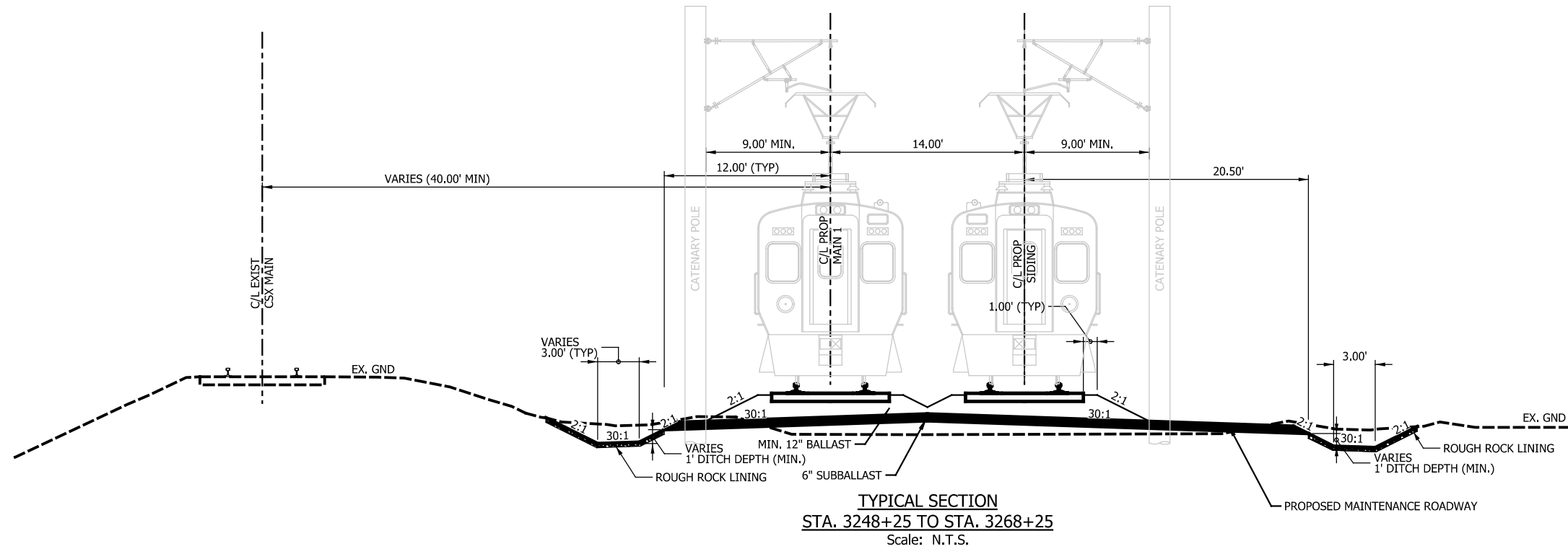
GENERAL NOTES DRAINAGE

FILENAME	_SHT_WL_DR_CV_02A_GeneralNotes.dgn	SHEET	3 OF 64
SCALE	AS NOTED		



TYPICAL SECTION
 STA. 3246+00 TO STA. 3248+25
 Scale: N.T.S.

- NOTES:
1. DRAWING NOT TO SCALE.
 2. DRAINAGE PIPES AND DITCHES ARE SHOWN FOR DISPLAY ONLY. SEE DRAINAGE PLANS FOR PIPE LOCATIONS, DITCH SIZE, AND LOCATION.
 3. SEE TRACK TYPICALS FOR DETAILS PERTAINING TO THE TRACK AND PLATFORM.
 4. SECTION IS REFLECTIVE OF DRAINAGE BASIN A1.



TYPICAL SECTION
 STA. 3248+25 TO STA. 3268+25
 Scale: N.T.S.

- NOTES:
1. DRAWING NOT TO SCALE.
 2. DRAINAGE PIPES AND DITCHES ARE SHOWN FOR DISPLAY ONLY. SEE DRAINAGE PLANS FOR PIPE LOCATIONS, DITCH SIZE, AND LOCATION.
 3. SEE TRACK TYPICALS FOR DETAILS PERTAINING TO THE TRACK AND PLATFORM.
 4. SECTION IS REFLECTIVE OF DRAINAGE BASINS A1-A4 AND B1-B4.

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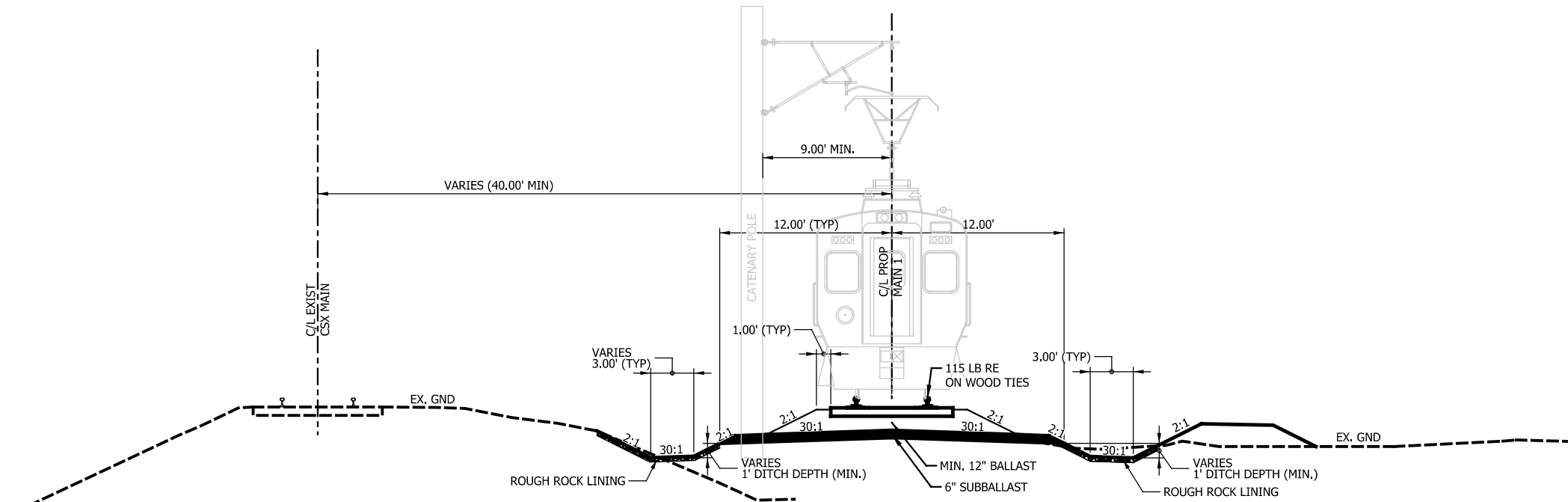
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SERIES DRNTYP-1 OF DRNTYP-10

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
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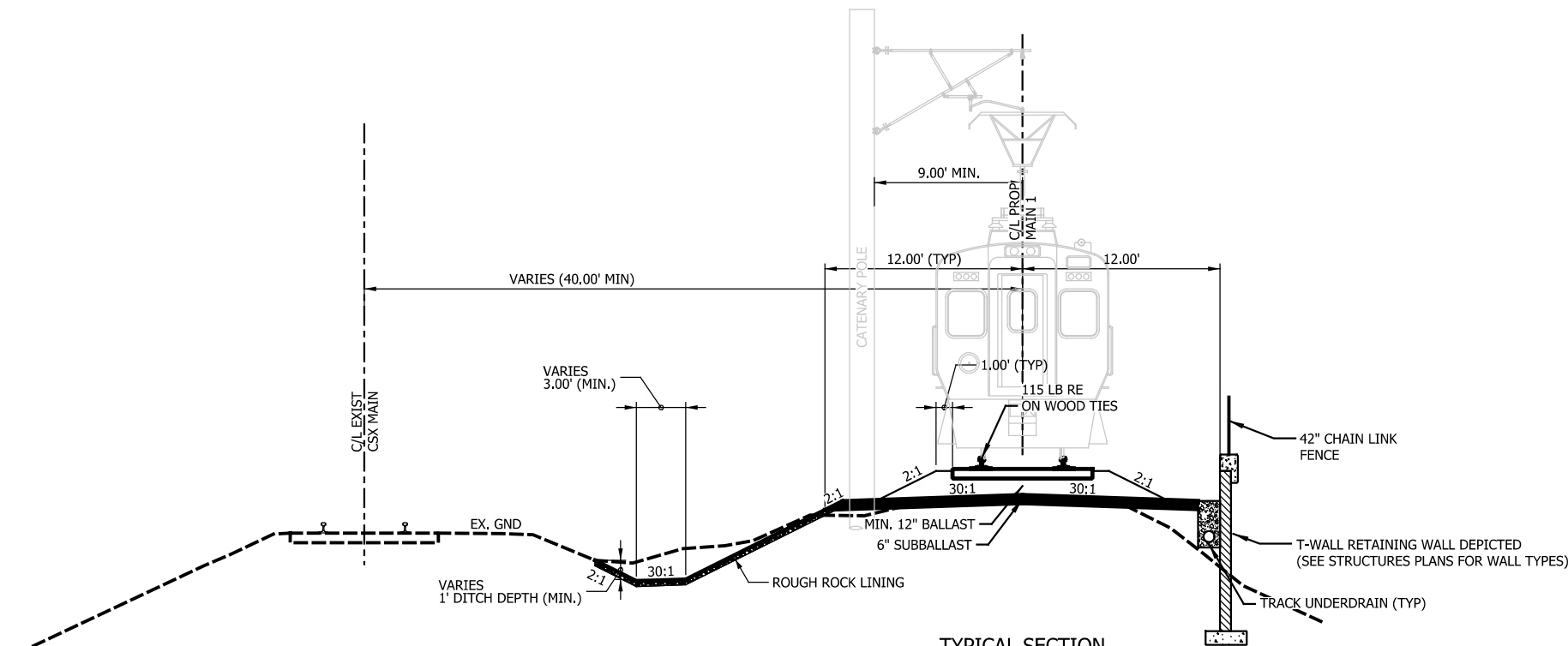
TYPICAL SECTIONS
 DRAINAGE

FILENAME	WL_DR_XS_Sht-01.dgn	SHEET	4 OF 64
SCALE	AS NOTED		



TYPICAL SECTION
 STA. 3268+25 TO STA. 3277+75
 Scale: N.T.S.

- NOTES:
1. DRAWING NOT TO SCALE.
 2. DRAINAGE PIPES AND DITCHES ARE SHOWN FOR DISPLAY ONLY. SEE DRAINAGE PLANS FOR PIPE LOCATIONS, DITCH SIZE, AND LOCATION.
 3. SEE TRACK TYPICALS FOR DETAILS PERTAINING TO THE TRACK AND PLATFORM.
 4. SIDE OF TRACK CATENARY POLES ARE LOCATED VARIES. SEE SYSTEMS SHEETS FOR DETAILS.
 5. SECTION IS REFLECTIVE OF DRAINAGE BASINS C1-C4.



TYPICAL SECTION
 STA. 3277+75 TO STA. 3290+25
 & STA. 3296+25 TO STA. 3306+85
 Scale: N.T.S.

- NOTES:
1. DRAWING NOT TO SCALE.
 2. DRAINAGE PIPES AND DITCHES ARE SHOWN FOR DISPLAY ONLY. SEE DRAINAGE PLANS FOR PIPE LOCATIONS, DITCH SIZE, AND LOCATION.
 3. SEE TRACK TYPICALS FOR DETAILS PERTAINING TO THE TRACK AND PLATFORM.
 4. SIDE OF TRACK CATENARY POLES ARE LOCATED VARIES. SEE SYSTEMS SHEETS FOR DETAILS.
 5. SECTION IS REFLECTIVE OF DRAINAGE BASINS D1, E1, E2, F1, F2.

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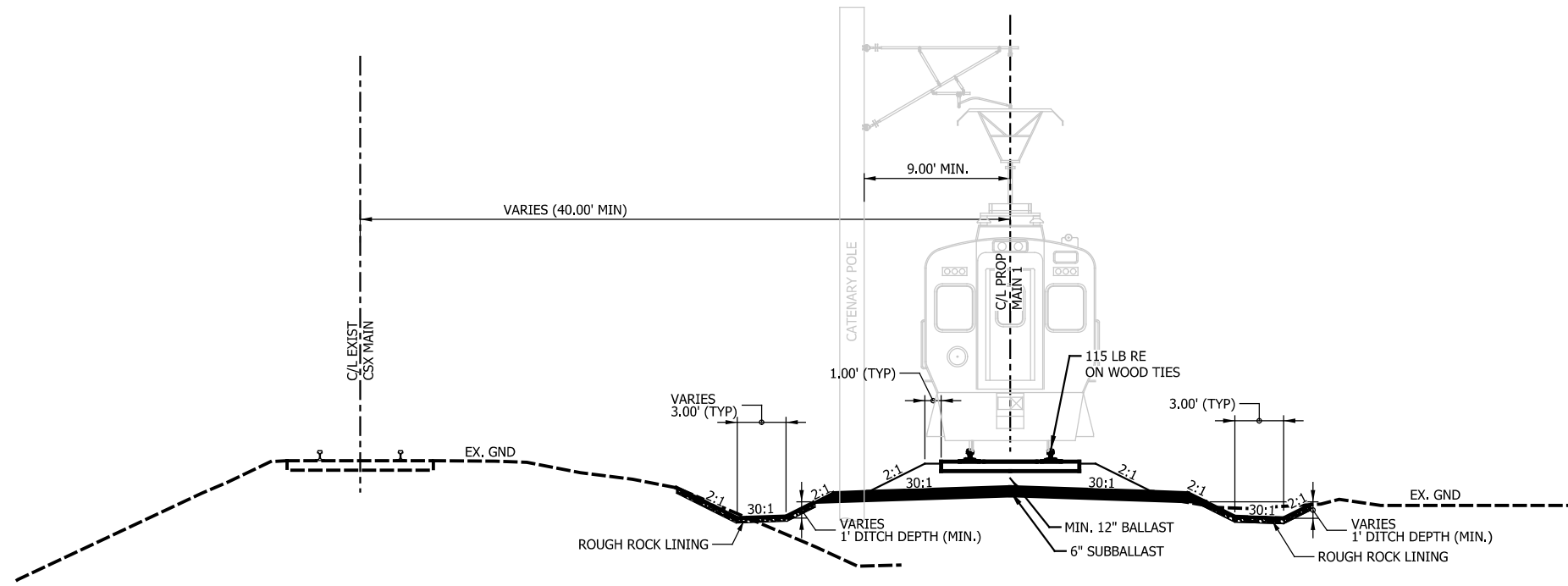
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NOT FOR CONSTRUCTION SERIES DRNTYP-2 OF DRNTYP-10

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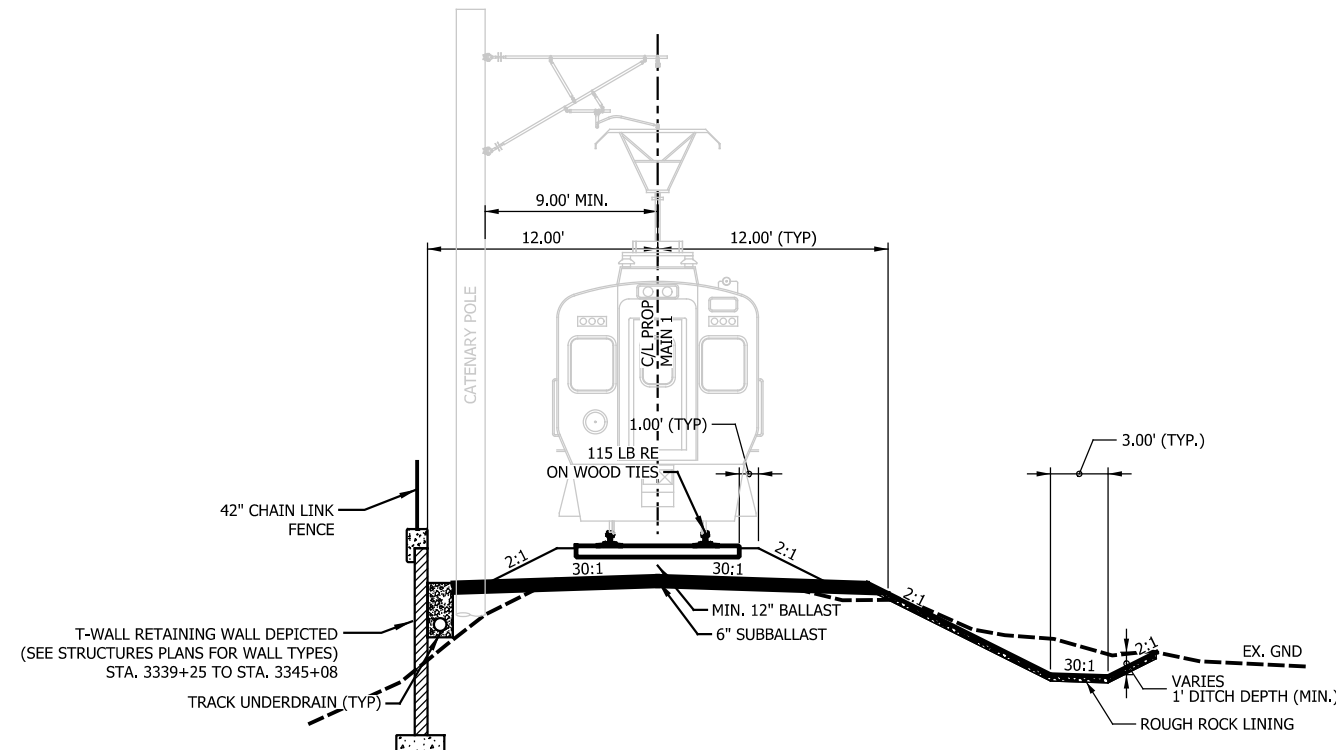
TYPICAL SECTIONS
 DRAINAGE

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SCALE	AS NOTED		



TYPICAL SECTION
STA. 3290+25 TO STA. 3296+25
 Scale: N.T.S.

- NOTES:**
1. DRAWING NOT TO SCALE.
 2. DRAINAGE PIPES AND DITCHES ARE SHOWN FOR DISPLAY ONLY. SEE DRAINAGE PLANS FOR PIPE LOCATIONS, DITCH SIZE, AND LOCATION.
 3. SEE TRACK TYPICALS FOR DETAILS PERTAINING TO THE TRACK AND PLATFORM.
 4. SIDE OF TRACK CATENARY POLES ARE LOCATED VARIES. SEE SYSTEMS SHEETS FOR DETAILS.
 5. SECTION IS REFLECTIVE OF DRAINAGE BASINS D2.



TYPICAL SECTION
STA. 3339+25 TO STA. 3346+25
 Scale: N.T.S.

- NOTES:**
1. DRAWING NOT TO SCALE.
 2. DRAINAGE PIPES AND DITCHES ARE SHOWN FOR DISPLAY ONLY. SEE DRAINAGE PLANS FOR PIPE LOCATIONS, DITCH SIZE, AND LOCATION.
 3. SEE TRACK TYPICALS FOR DETAILS PERTAINING TO THE TRACK AND PLATFORM.
 4. SIDE OF TRACK CATENARY POLES ARE LOCATED VARIES. SEE SYSTEMS SHEETS FOR DETAILS.
 5. SECTION IS REFLECTIVE OF DRAINAGE BASINS X1.

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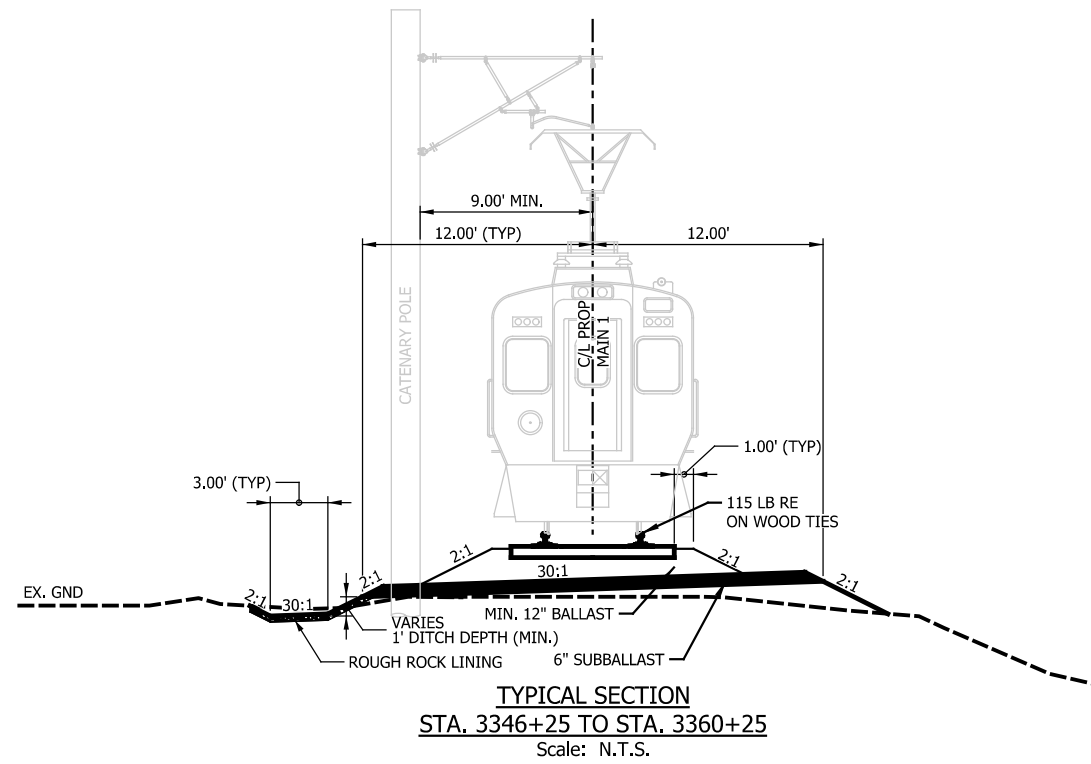
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SERIES DRNTYP-3 OF DRNTYP-10

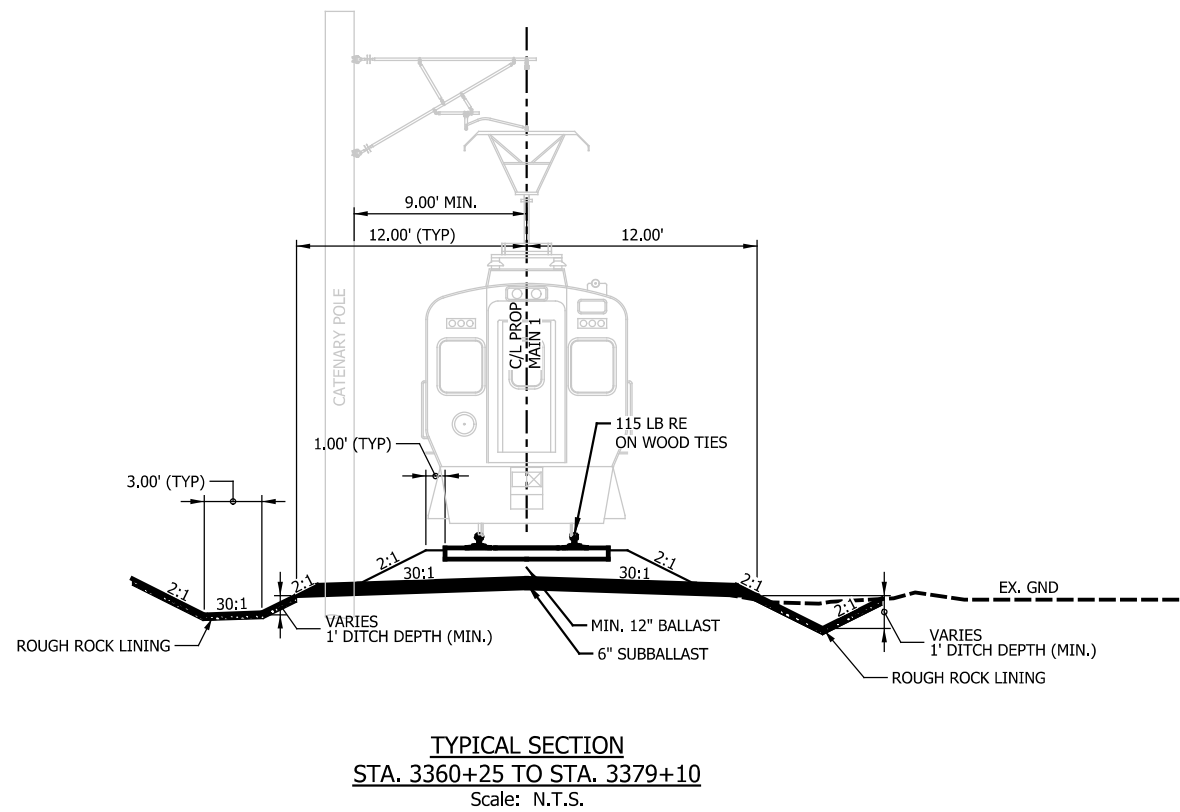
NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
 SINGLE TRACK

**TYPICAL SECTIONS
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SCALE	AS NOTED		



- NOTES:**
1. DRAWING NOT TO SCALE.
 2. DRAINAGE PIPES AND DITCHES ARE SHOWN FOR DISPLAY ONLY. SEE DRAINAGE PLANS FOR PIPE LOCATIONS, DITCH SIZE, AND LOCATION.
 3. SEE TRACK TYPICALS FOR DETAILS PERTAINING TO THE TRACK AND PLATFORM.
 4. SIDE OF TRACK CATENARY POLES ARE LOCATED VARIES. SEE SYSTEMS SHEETS FOR DETAILS.
 5. SECTION IS REFLECTIVE OF DRAINAGE BASINS G1, H1-H2.



- NOTES:**
1. DRAWING NOT TO SCALE.
 2. DRAINAGE PIPES AND DITCHES ARE SHOWN FOR DISPLAY ONLY. SEE DRAINAGE PLANS FOR PIPE LOCATIONS, DITCH SIZE, AND LOCATION.
 3. SEE TRACK TYPICALS FOR DETAILS PERTAINING TO THE TRACK AND PLATFORM.
 4. SIDE OF TRACK CATENARY POLES ARE LOCATED VARIES. SEE SYSTEMS SHEETS FOR DETAILS.
 5. SECTION IS REFLECTIVE OF DRAINAGE BASINS I1-I2, J1-J2, K1, M1-M3, N1-N2.

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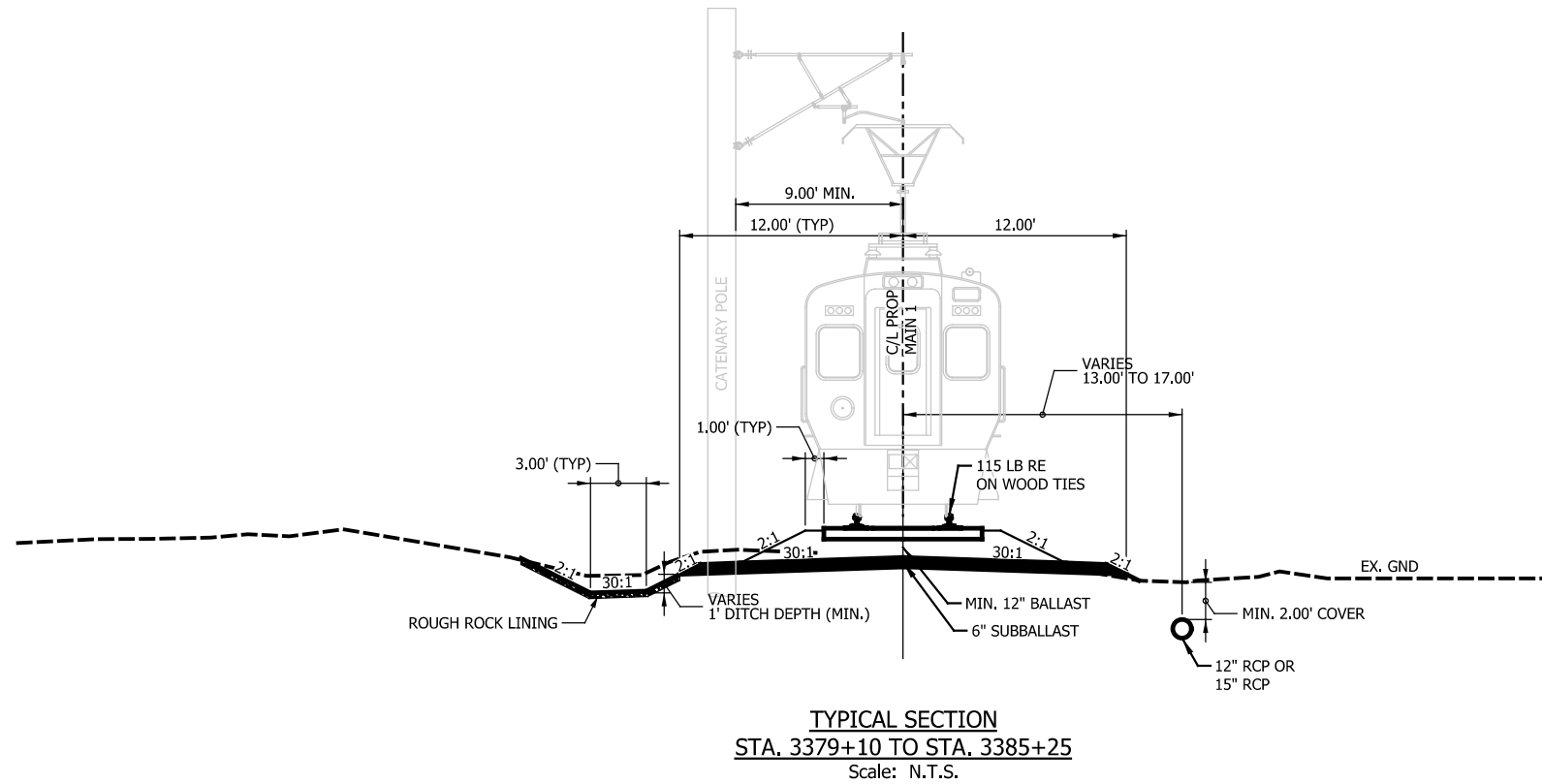
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NOT FOR CONSTRUCTION SERIES DRNTYP-4 OF DRNTYP-10

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
SINGLE TRACK

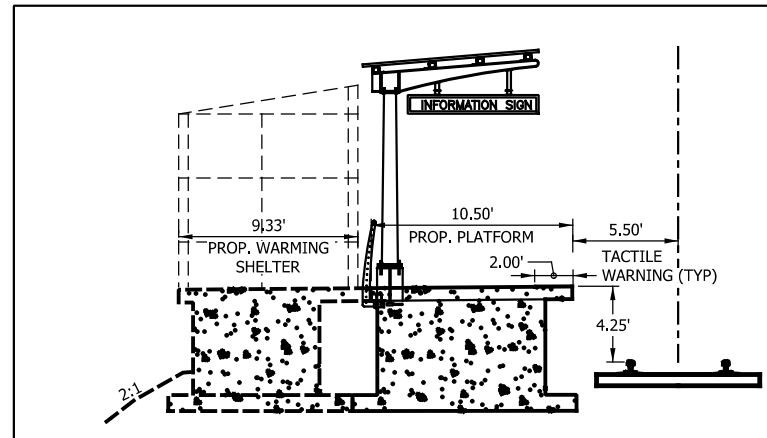
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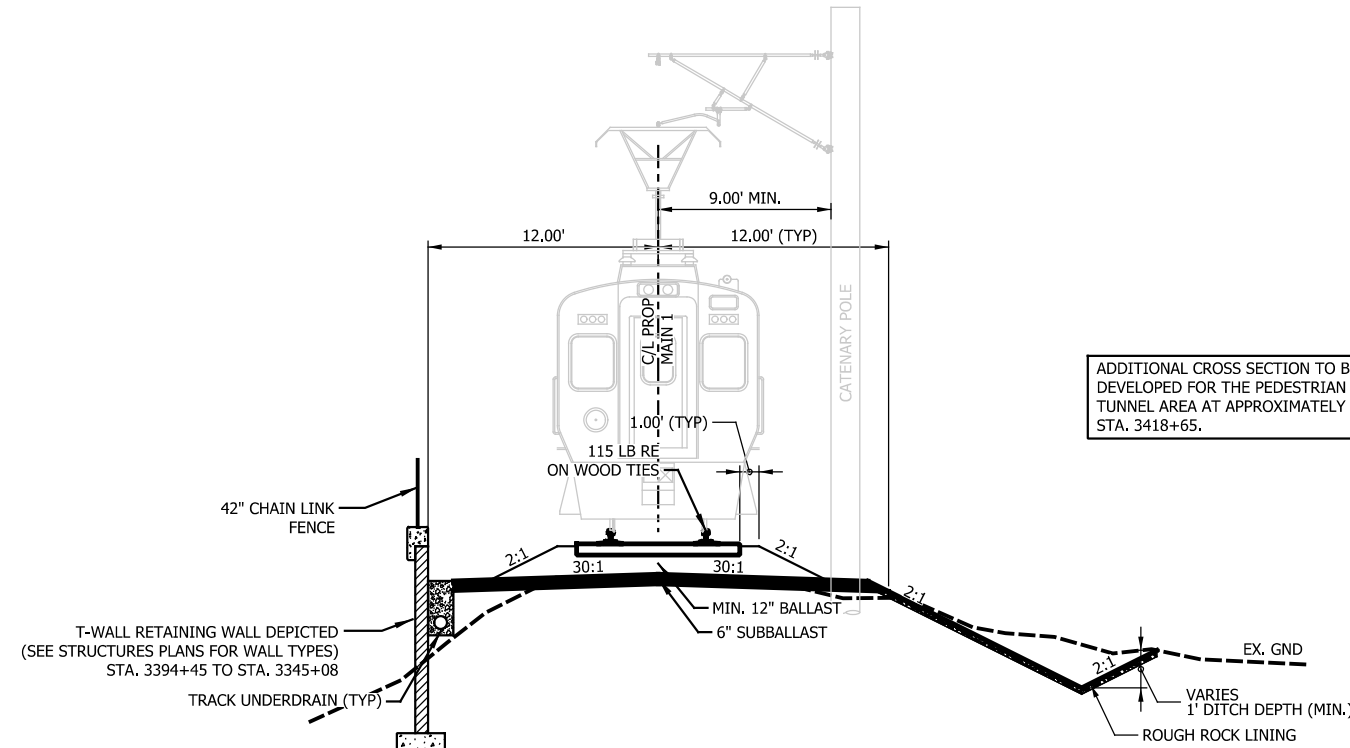


TYPICAL SECTION
STA. 3379+10 TO STA. 3385+25
 Scale: N.T.S.

- NOTES:**
1. DRAWING NOT TO SCALE.
 2. DRAINAGE PIPES AND DITCHES ARE SHOWN FOR DISPLAY ONLY. SEE DRAINAGE PLANS FOR PIPE LOCATIONS, DITCH SIZE, AND LOCATION.
 3. SEE TRACK TYPICALS FOR DETAILS PERTAINING TO THE TRACK AND PLATFORM.
 4. SIDE OF TRACK CATENARY POLES ARE LOCATED VARIES. SEE SYSTEMS SHEETS FOR DETAILS.
 5. SECTION IS REFLECTIVE OF DRAINAGE BASINS K2, L1, O1-O3.



MUNSTER RIDGE STATION
STA. 3386+25 TO STA. 3394+45



TYPICAL SECTION
STA. 3386+25 TO STA. 3420+25
 Scale: N.T.S.

ADDITIONAL CROSS SECTION TO BE DEVELOPED FOR THE PEDESTRIAN TUNNEL AREA AT APPROXIMATELY STA. 3418+65.

- NOTES:**
1. DRAWING NOT TO SCALE.
 2. DRAINAGE PIPES AND DITCHES ARE SHOWN FOR DISPLAY ONLY. SEE DRAINAGE PLANS FOR PIPE LOCATIONS, DITCH SIZE, AND LOCATION.
 3. SEE TRACK TYPICALS FOR DETAILS PERTAINING TO THE TRACK AND PLATFORM.
 4. SIDE OF TRACK CATENARY POLES ARE LOCATED VARIES. SEE SYSTEMS SHEETS FOR DETAILS.
 5. SECTION IS REFLECTIVE OF DRAINAGE BASINS P1, Q1, R1-R2, S1-S3, T1-T2.

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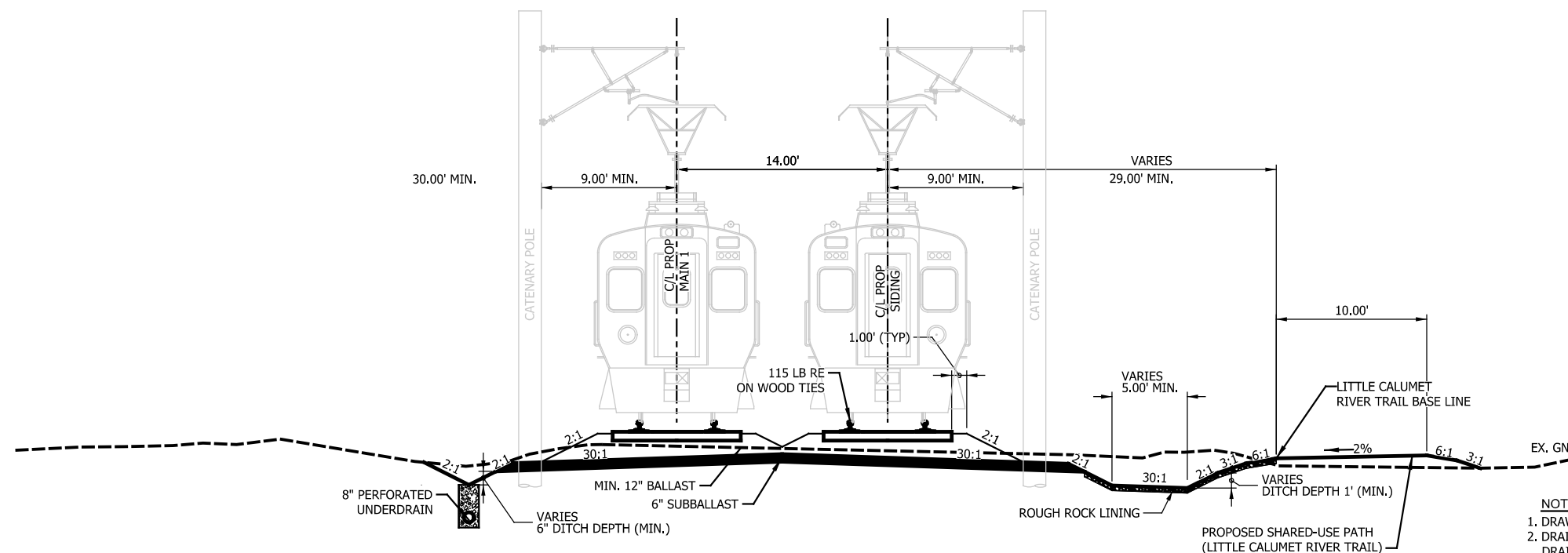
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NOT FOR CONSTRUCTION SERIES DRNTYP-5 OF DRNTYP-10

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18 SINGLE TRACK

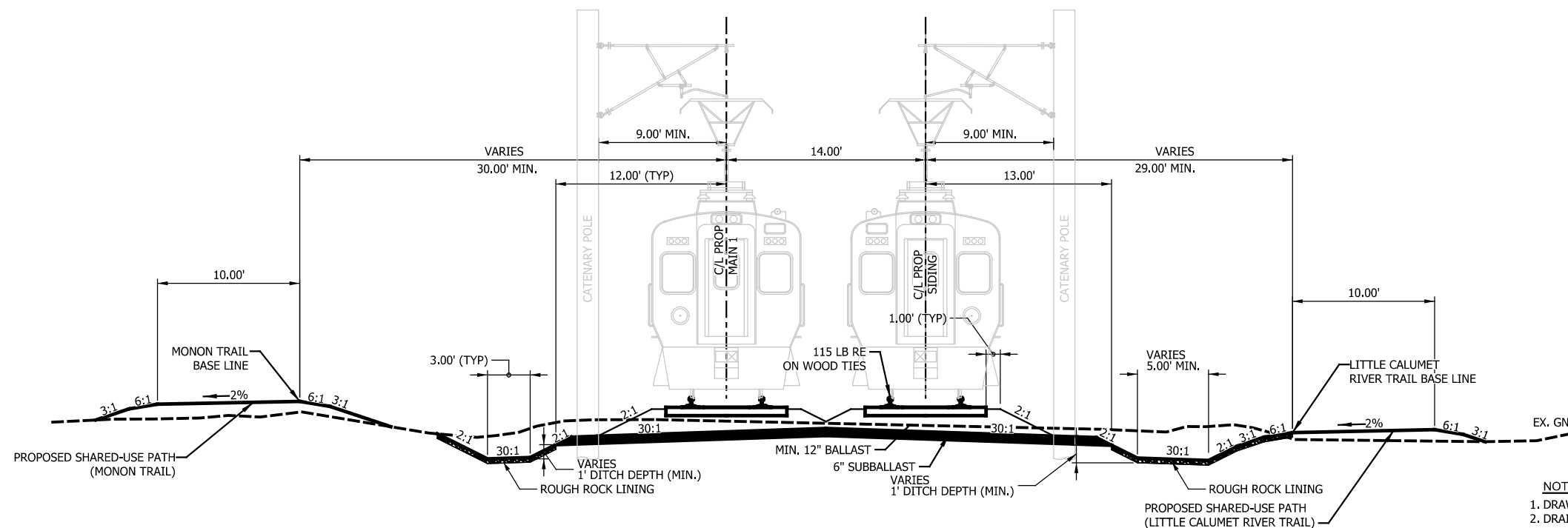
TYPICAL SECTIONS DRAINAGE

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SCALE	AS NOTED		



TYPICAL SECTION
STA. 3428+00 TO STA. 3442+00
 Scale: N.T.S.

- NOTES:**
1. DRAWING NOT TO SCALE.
 2. DRAINAGE PIPES AND DITCHES ARE SHOWN FOR DISPLAY ONLY. SEE DRAINAGE PLANS FOR PIPE LOCATIONS, DITCH SIZE, AND LOCATION.
 3. SEE TRACK TYPICALS FOR DETAILS PERTAINING TO THE TRACK AND PLATFORM.
 4. SECTION IS REFLECTIVE OF DRAINAGE BASINS U1-U4, V1, W1-W2, AA1-AA2.



TYPICAL SECTION
STA. 3442+00 TO STA. 3452+00
 Scale: N.T.S.

- NOTES:**
1. DRAWING NOT TO SCALE.
 2. DRAINAGE PIPES AND DITCHES ARE SHOWN FOR DISPLAY ONLY. SEE DRAINAGE PLANS FOR PIPE LOCATIONS, DITCH SIZE, AND LOCATION.
 3. SEE TRACK TYPICALS FOR DETAILS PERTAINING TO THE TRACK AND PLATFORM.
 4. SECTION IS REFLECTIVE OF DRAINAGE BASINS BB1-BB4.

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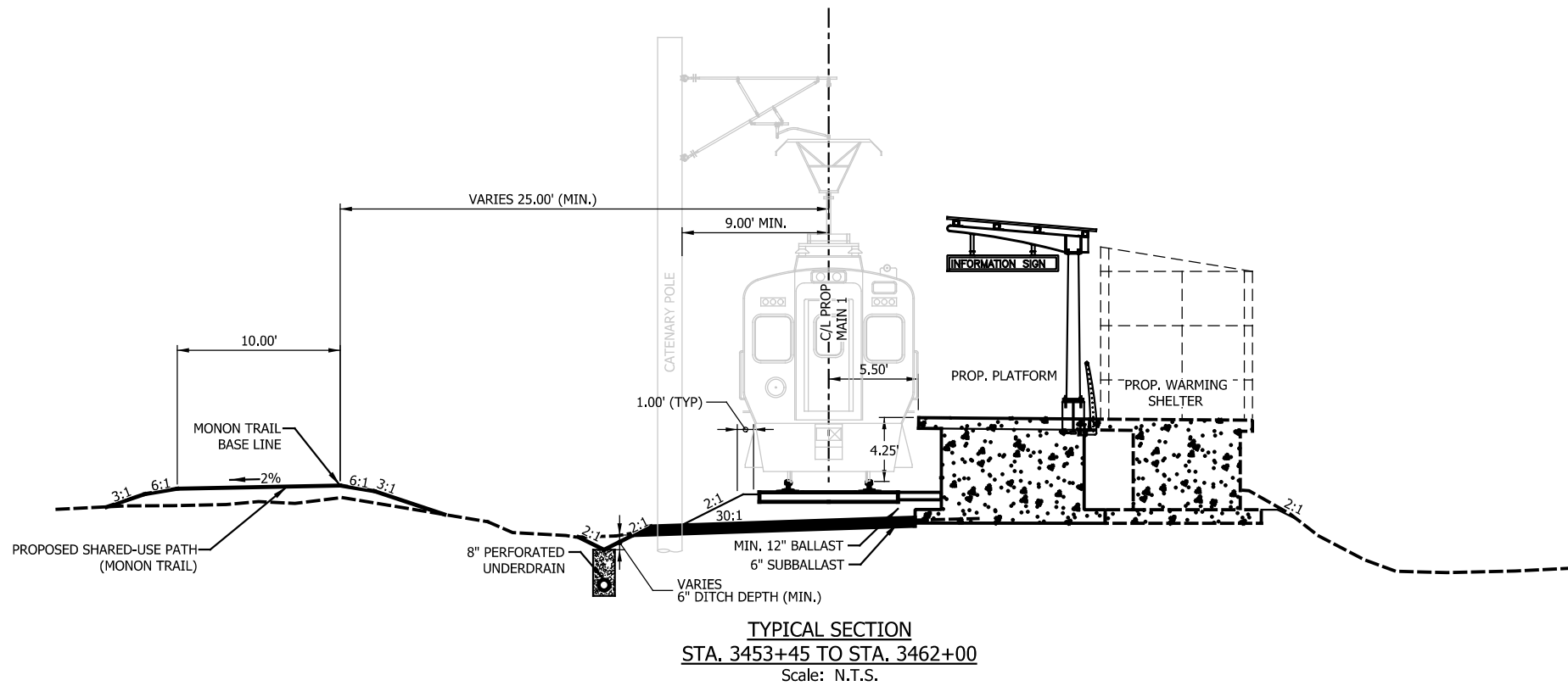
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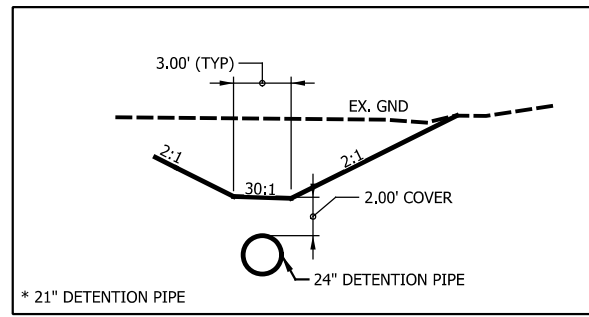
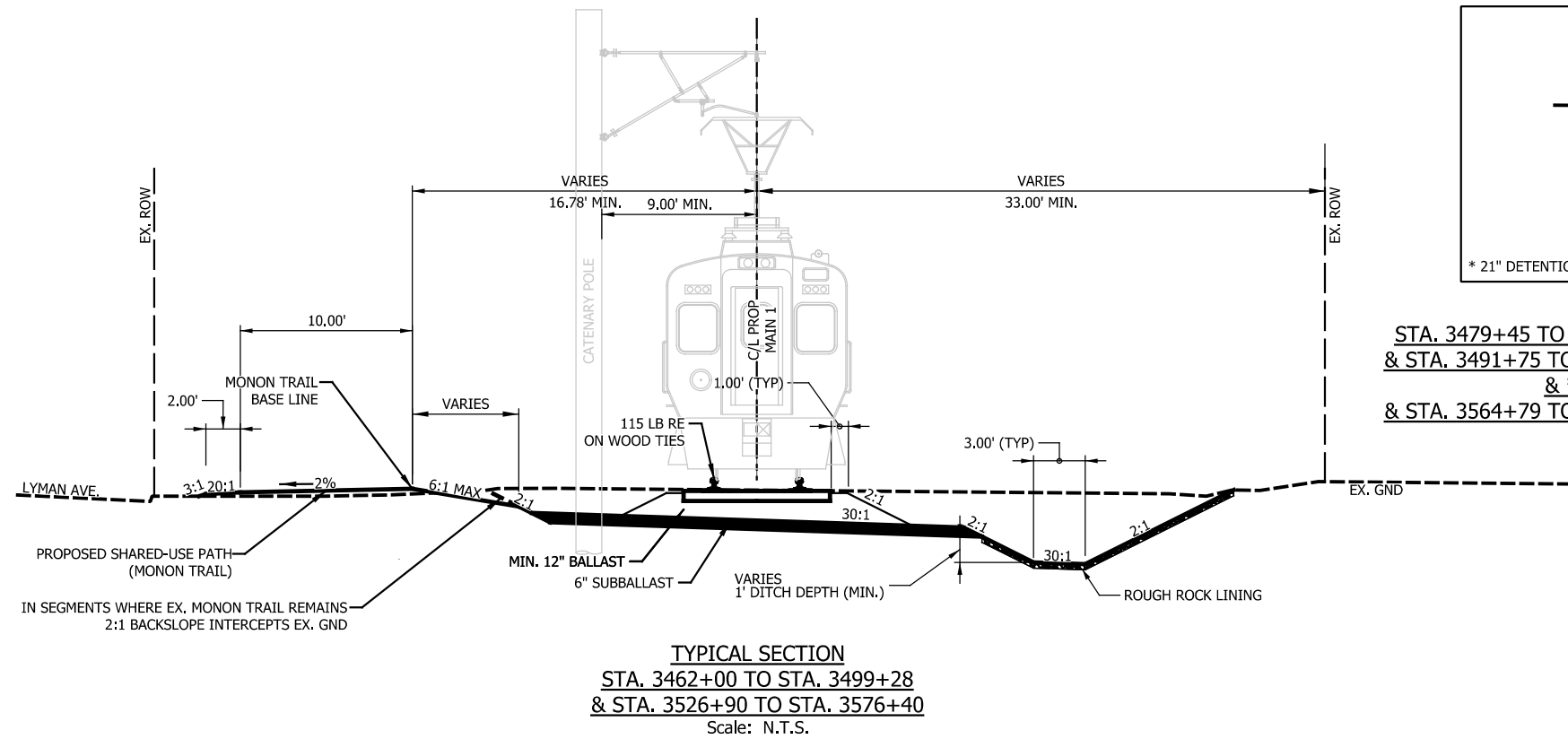
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DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES DRNTYP-6 OF DRNTYP-10

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TYPICAL SECTIONS DRAINAGE		
FILENAME	WL_DR_XS_Sht-06.dgn	SHEET
SCALE	AS NOTED	9 OF 64



- NOTES:**
1. DRAWING NOT TO SCALE.
 2. DRAINAGE PIPES AND DITCHES ARE SHOWN FOR DISPLAY ONLY. SEE DRAINAGE PLANS FOR PIPE LOCATIONS, DITCH SIZE, AND LOCATION.
 3. SEE TRACK TYPICALS FOR DETAILS PERTAINING TO THE TRACK AND PLATFORM.
 4. SECTION IS REFLECTIVE OF DRAINAGE BASINS CC1-CC2, DD1-DD2.



DETENTION PIPE DETAIL
 STA. 3479+45 TO STA. 3486+13 & STA. 3488+12 TO STA. 3490+40
 & STA. 3491+75 TO STA. 3497+49 & STA. 3528+82 TO STA. 3533+79
 & * STA. 3556+73 TO STA. 3560+97
 & STA. 3564+79 TO STA. 3570+80 & STA. 3571+73 TO STA. 3574+95

- NOTES:**
1. DRAWING NOT TO SCALE.
 2. DRAINAGE PIPES AND DITCHES ARE SHOWN FOR DISPLAY ONLY. SEE DRAINAGE PLANS FOR PIPE LOCATIONS, DITCH SIZE, AND LOCATION.
 3. SEE TRACK TYPICALS FOR DETAILS PERTAINING TO THE TRACK AND PLATFORM.
 4. SIDE OF TRACK CATENARY POLES ARE LOCATED VARIES. SEE SYSTEMS SHEETS FOR DETAILS.
 5. SECTION IS REFLECTIVE OF DRAINAGE BASINS EE1-FF1, GG1-II2, MM1, NN1-PP1, PP2-RR2.
 6. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DETENTION PIPE INLET LOCATIONS.

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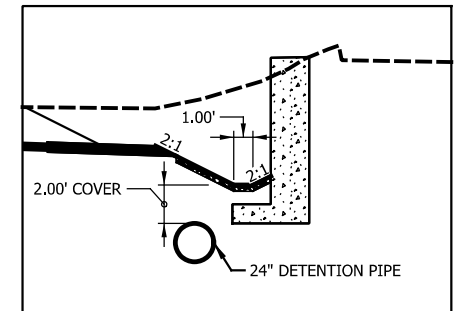
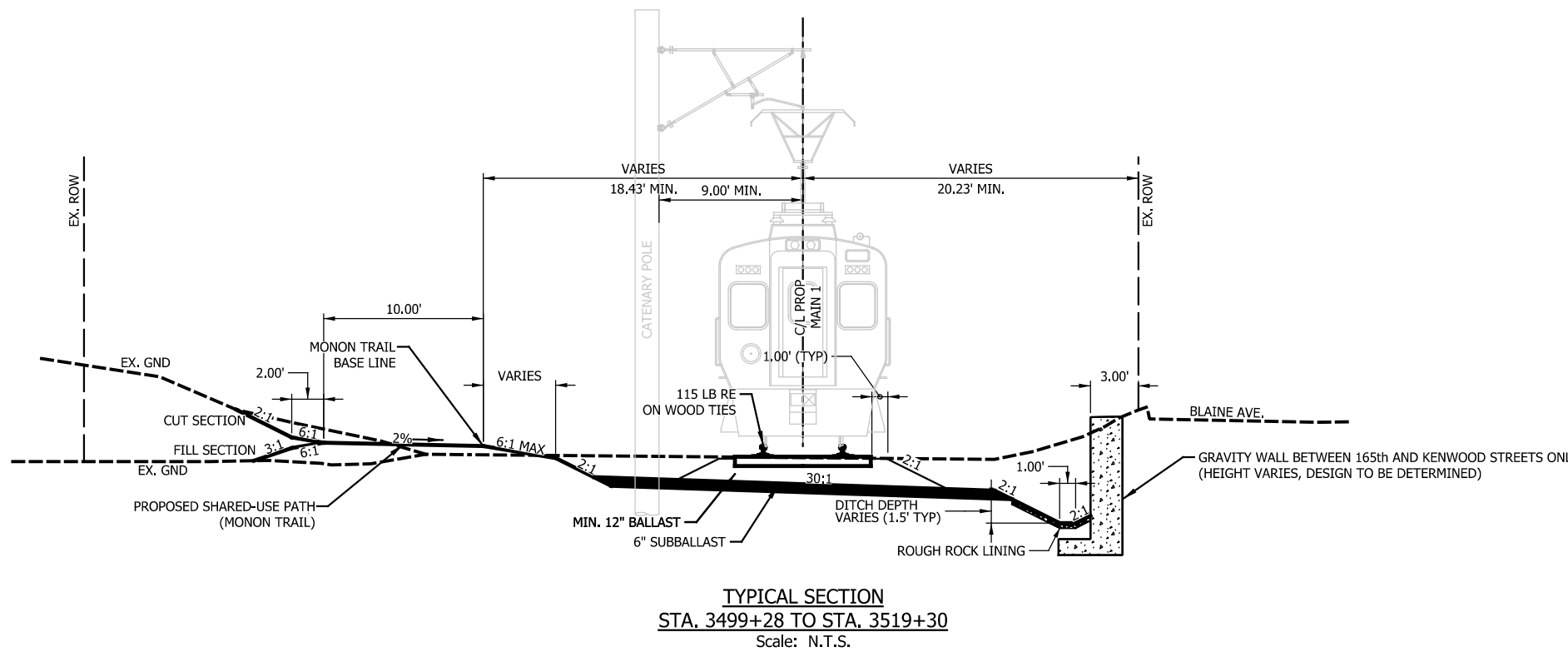
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NOT FOR CONSTRUCTION SERIES DRNTYP-7 OF DRNTYP-10

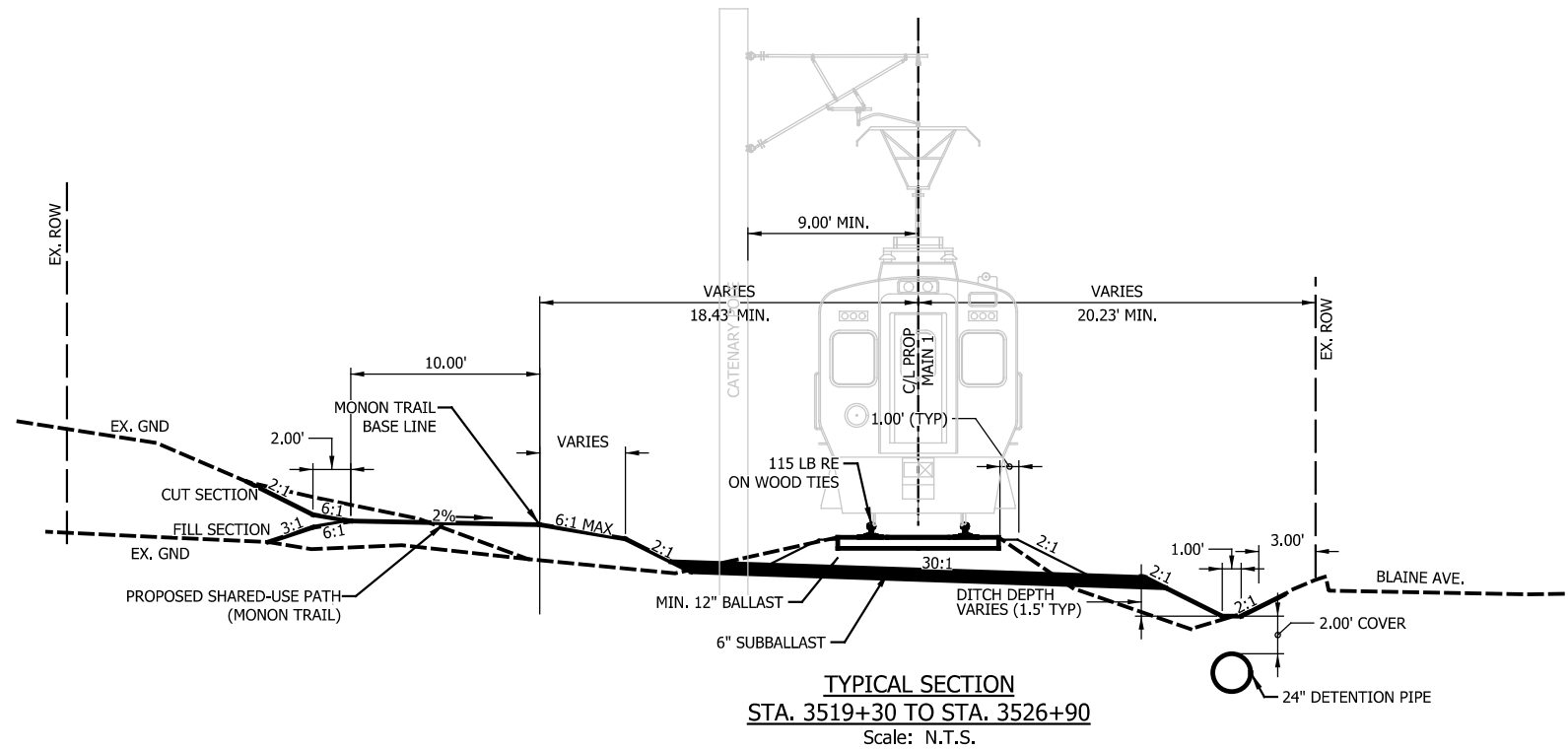
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TYPICAL SECTIONS DRAINAGE

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SCALE	AS NOTED		



- NOTES:**
1. DRAWING NOT TO SCALE.
 2. DRAINAGE PIPES AND DITCHES ARE SHOWN FOR DISPLAY ONLY. SEE DRAINAGE PLANS FOR PIPE LOCATIONS, DITCH SIZE, AND LOCATION.
 3. SEE TRACK TYPICALS FOR DETAILS PERTAINING TO THE TRACK AND PLATFORM.
 4. SIDE OF TRACK CATENARY POLES ARE LOCATED VARIES. SEE SYSTEMS SHEETS FOR DETAILS.
 5. SECTION IS REFLECTIVE OF DRAINAGE BASINS JJ1-JJ2, KK1.
 6. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DETENTION PIPE INLET LOCATIONS.



- NOTES:**
1. DRAWING NOT TO SCALE.
 2. DRAINAGE PIPES AND DITCHES ARE SHOWN FOR DISPLAY ONLY. SEE DRAINAGE PLANS FOR PIPE LOCATIONS, DITCH SIZE, AND LOCATION.
 3. SEE TRACK TYPICALS FOR DETAILS PERTAINING TO THE TRACK AND PLATFORM.
 4. SIDE OF TRACK CATENARY POLES ARE LOCATED VARIES. SEE SYSTEMS SHEETS FOR DETAILS.
 5. SECTION IS REFLECTIVE OF DRAINAGE BASINS LL1.
 6. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DETENTION PIPE INLET LOCATIONS.

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 8550 W Bryn Mawr Ave., Suite 900
 Chicago, IL 60631
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 33 East Highway 12
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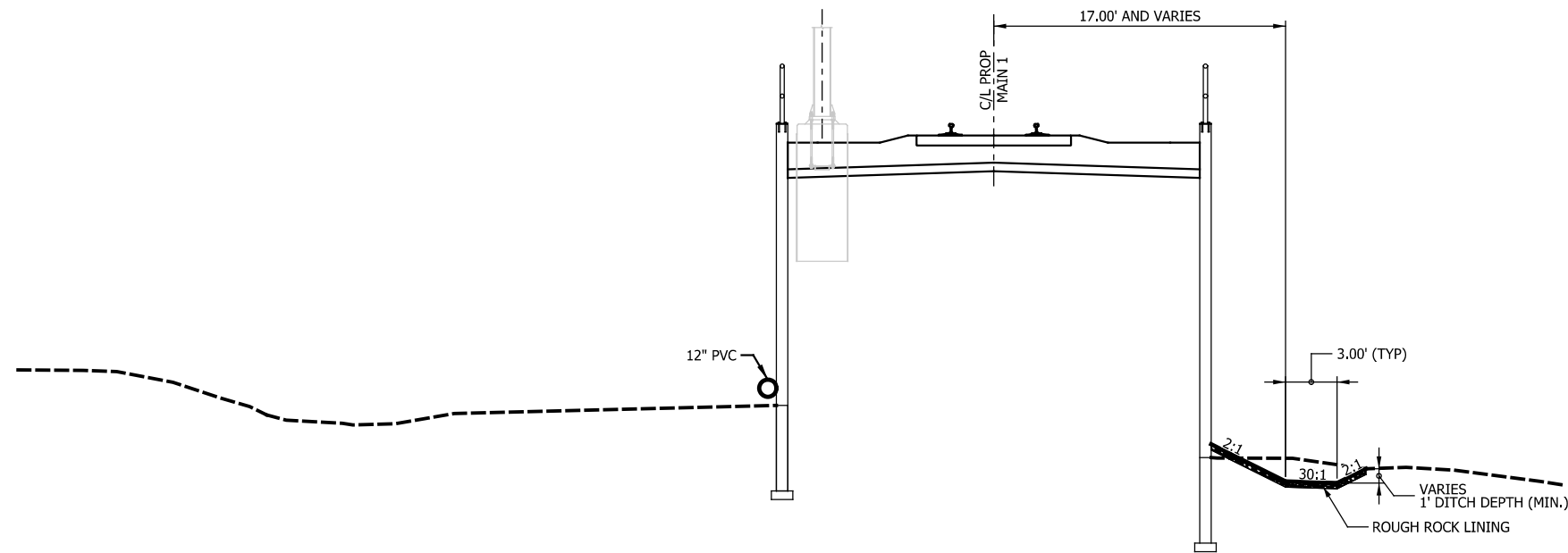
WEST LAKE
 CORRIDOR
 DYER TO HAMMOND, INDIANA

DESIGNED:	XXX
DRAWN:	XXX
CHECKED:	XXX
DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES DRNTYP-8 OF DRNTYP-10
 NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
 SINGLE TRACK

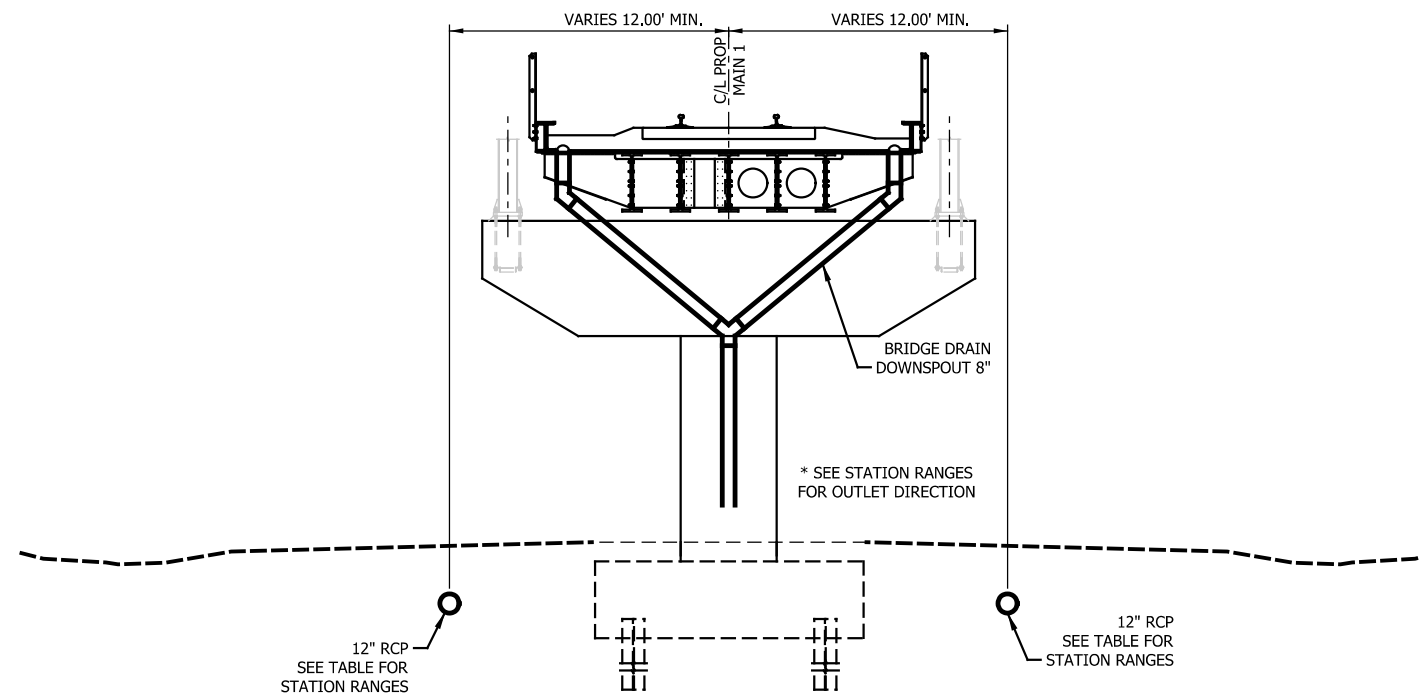
TYPICAL SECTIONS DRAINAGE

FILENAME	WL_DR_XS_Sht-08.dgn	SHEET	11 OF 64
SCALE	AS NOTED		



TYPICAL SECTION
STA. 3576+40 TO STA. 3585+25
 Scale: N.T.S.

- NOTES:**
1. DRAWING NOT TO SCALE.
 2. DRAINAGE PIPES AND DITCHES ARE SHOWN FOR DISPLAY ONLY. SEE DRAINAGE PLANS FOR PIPE LOCATIONS, DITCH SIZE, AND LOCATION.
 3. SEE TRACK TYPICALS FOR DETAILS PERTAINING TO THE TRACK AND PLATFORM.
 4. SIDE OF TRACK CATENARY POLES ARE LOCATED VARIES. SEE SYSTEMS SHEETS FOR DETAILS.
 5. SECTION IS REFLECTIVE OF DRAINAGE BASINS SS1-SS2.



TYPICAL SECTION
STA. 3585+25 TO STA. 3594+06 & STA. 3595+10 TO STA. 3597+95
& STA. 3603+94 TO STA. 3610+10 & STA. 3612+70 TO STA. 3617+26
 Scale: N.T.S.

- NOTES:**
1. DRAWING NOT TO SCALE.
 2. DRAINAGE PIPES AND DITCHES ARE SHOWN FOR DISPLAY ONLY. SEE DRAINAGE PLANS FOR PIPE LOCATIONS, DITCH SIZE, AND LOCATION.
 3. SEE TRACK TYPICALS FOR DETAILS PERTAINING TO THE TRACK AND PLATFORM.
 4. SIDE OF TRACK CATENARY POLES ARE LOCATED VARIES. SEE SYSTEMS SHEETS FOR DETAILS.
 5. SECTION IS REFLECTIVE OF DRAINAGE BASINS TT1-UU4, VV1-VV2, XX1, XX4-XX5.
 6. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR PROPOSED CATCH BASIN LOCATIONS ADJACENT TO BRIDGE PIERS.

12" RCP STATION RANGES		
START STATION	END STATION	OFFSET DIRECTION
3585+25	3586+76	LT
3585+25	3587+72	RT
3588+58	3590+65	LT
3588+55	3593+38	RT
3593+38	3594+06	LT
3603+94	3605+06	RT
3607+52	3610+72	LT
3614+48	3617+26	RT

* OUTLET DIRECTION IS SAME AS OFFSET DIRECTION

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ISSUE	DATE	DESCRIPTION



DESIGNED:	XXX
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DATE:	07/21/17

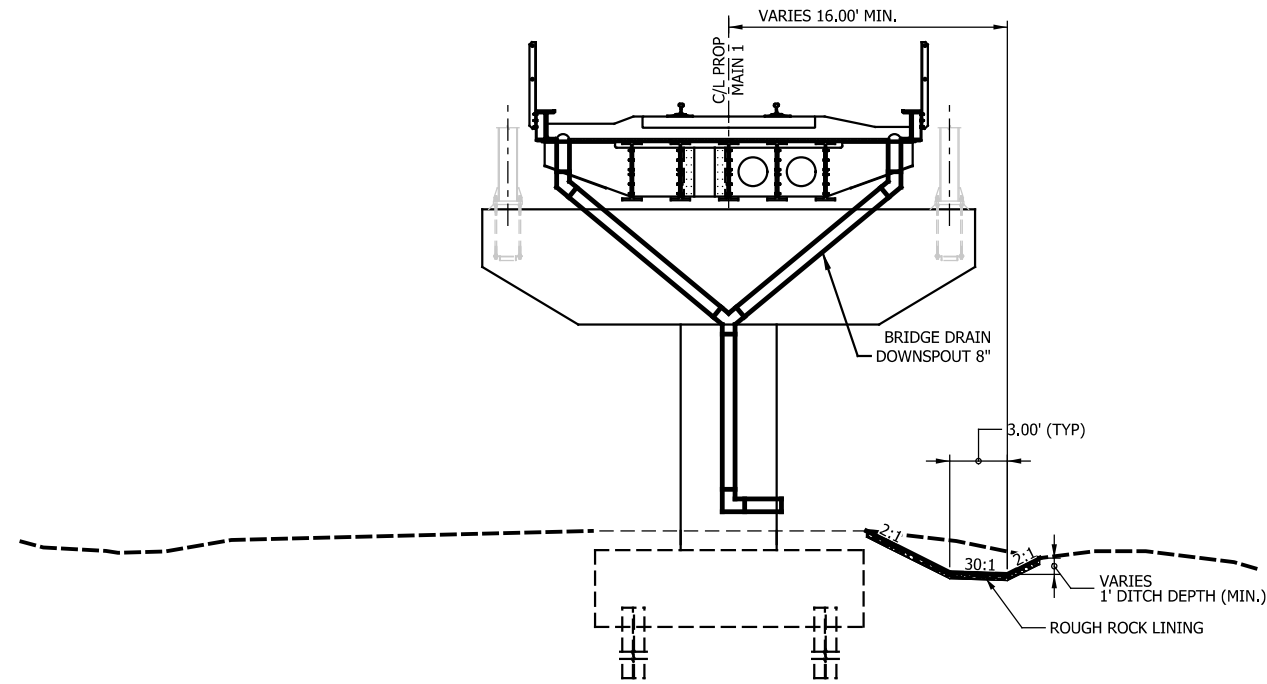
NOT FOR CONSTRUCTION

SERIES DRNTYP-9 OF DRNTYP-10

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
 SINGLE TRACK

**TYPICAL SECTIONS
 DRAINAGE**

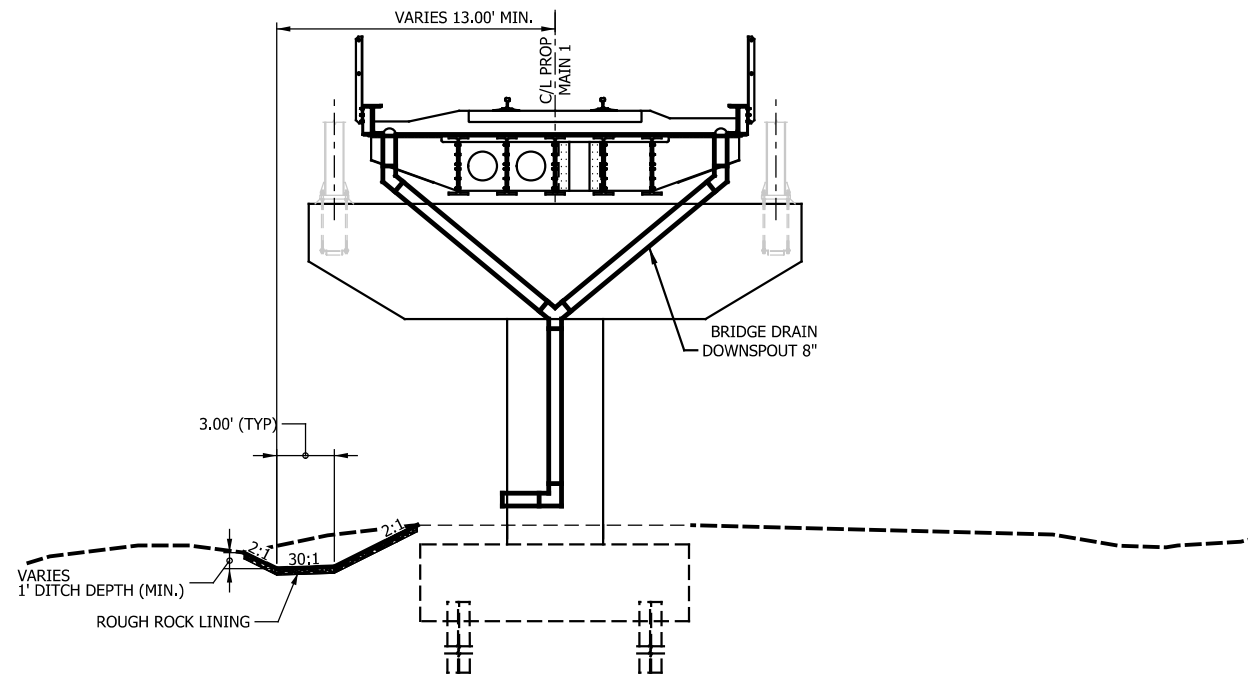
FILENAME	WL_DR_XS_Sht-09.dgn	SHEET	12 OF 64
SCALE	AS NOTED		



TYPICAL SECTION
 STA. 3594+06 TO STA. 3595+10
 & STA. 3617+26 TO STA. 3632+40
 Scale: N.T.S.

NOTES:

1. DRAWING NOT TO SCALE.
2. DRAINAGE PIPES AND DITCHES ARE SHOWN FOR DISPLAY ONLY. SEE DRAINAGE PLANS FOR PIPE LOCATIONS, DITCH SIZE, AND LOCATION.
3. SEE TRACK TYPICALS FOR DETAILS PERTAINING TO THE TRACK AND PLATFORM.
4. SIDE OF TRACK CATENARY POLES ARE LOCATED VARIES. SEE SYSTEMS SHEETS FOR DETAILS.
5. SECTION IS REFLECTIVE OF DRAINAGE BASINS UU5, XX6-YY1.



TYPICAL SECTION
 STA. 3597+95 TO STA. 3603+94
 & STA. 3610+10 TO STA. 3612+70
 Scale: N.T.S.

NOTES:

1. DRAWING NOT TO SCALE.
2. DRAINAGE PIPES AND DITCHES ARE SHOWN FOR DISPLAY ONLY. SEE DRAINAGE PLANS FOR PIPE LOCATIONS, DITCH SIZE, AND LOCATION.
3. SEE TRACK TYPICALS FOR DETAILS PERTAINING TO THE TRACK AND PLATFORM.
4. SIDE OF TRACK CATENARY POLES ARE LOCATED VARIES. SEE SYSTEMS SHEETS FOR DETAILS.
5. SECTION IS REFLECTIVE OF DRAINAGE BASINS WW1, XX2-XX3.

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ISSUE	DATE	DESCRIPTION



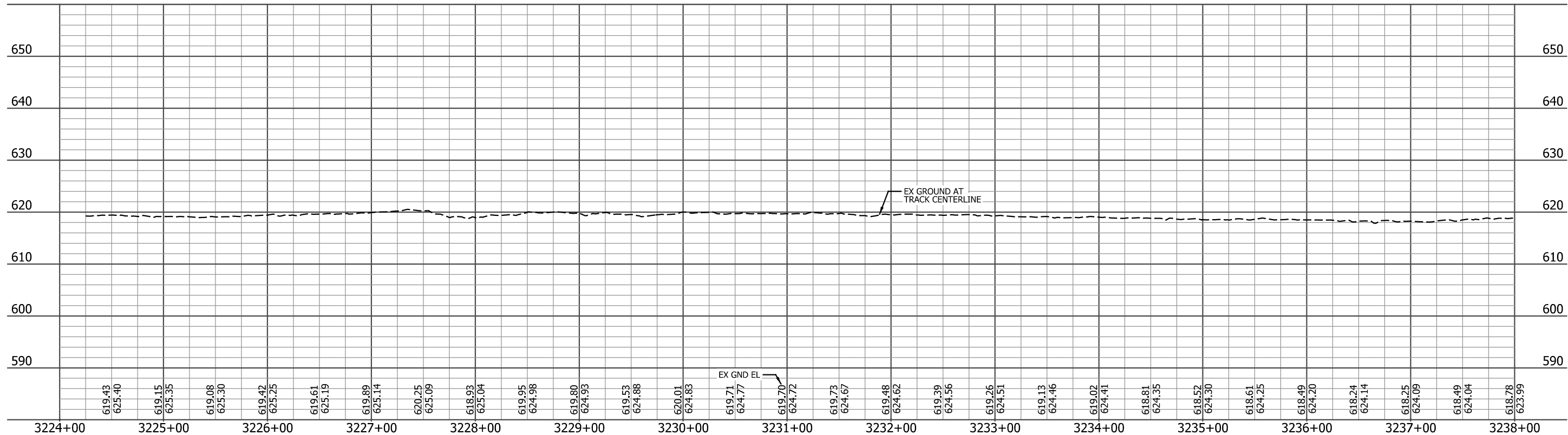
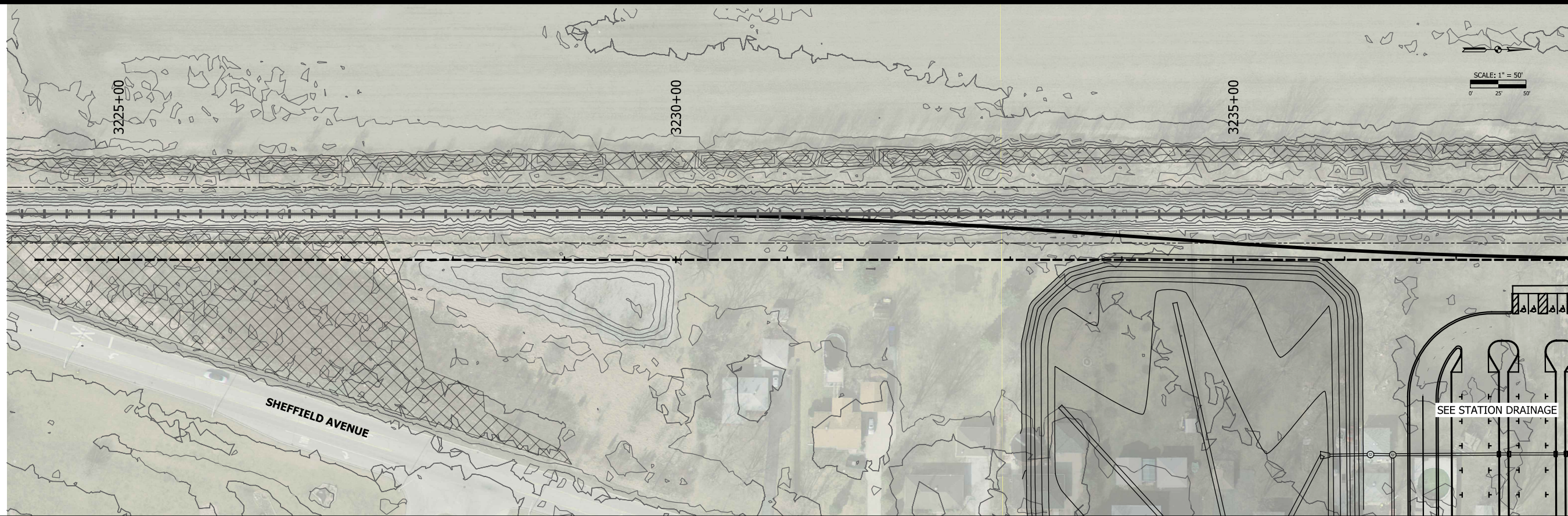
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NOT FOR CONSTRUCTION SERIES DRNTYP-10 OF DRNTYP-10

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
 SINGLE TRACK

TYPICAL SECTIONS DRAINAGE

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SCALE	AS NOTED		



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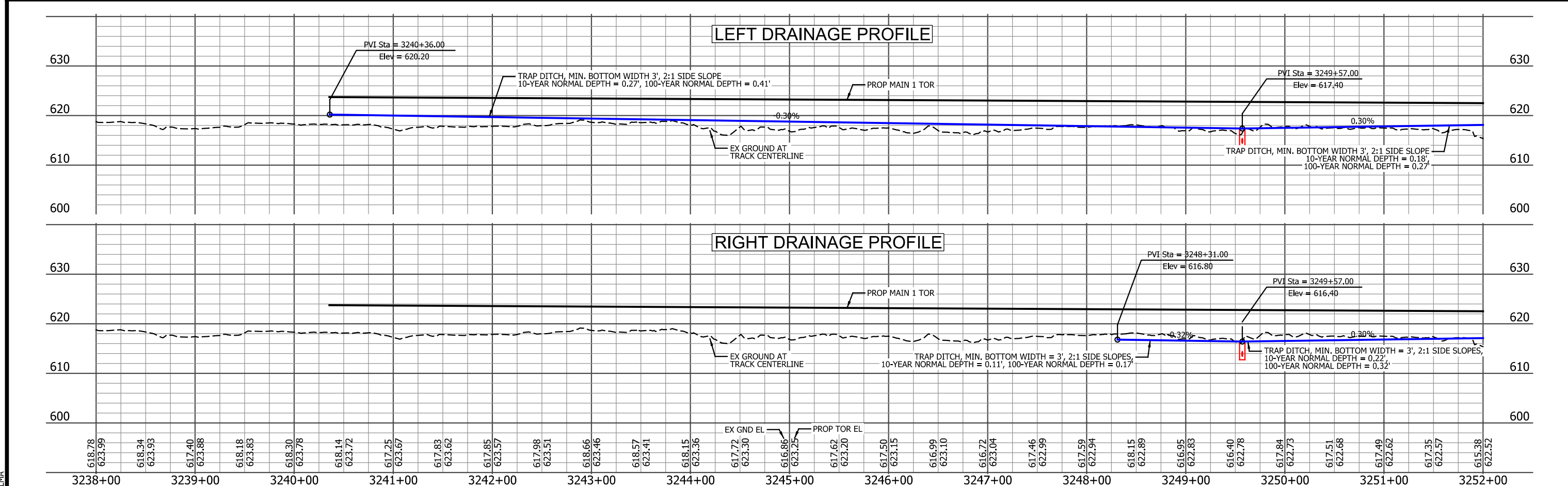
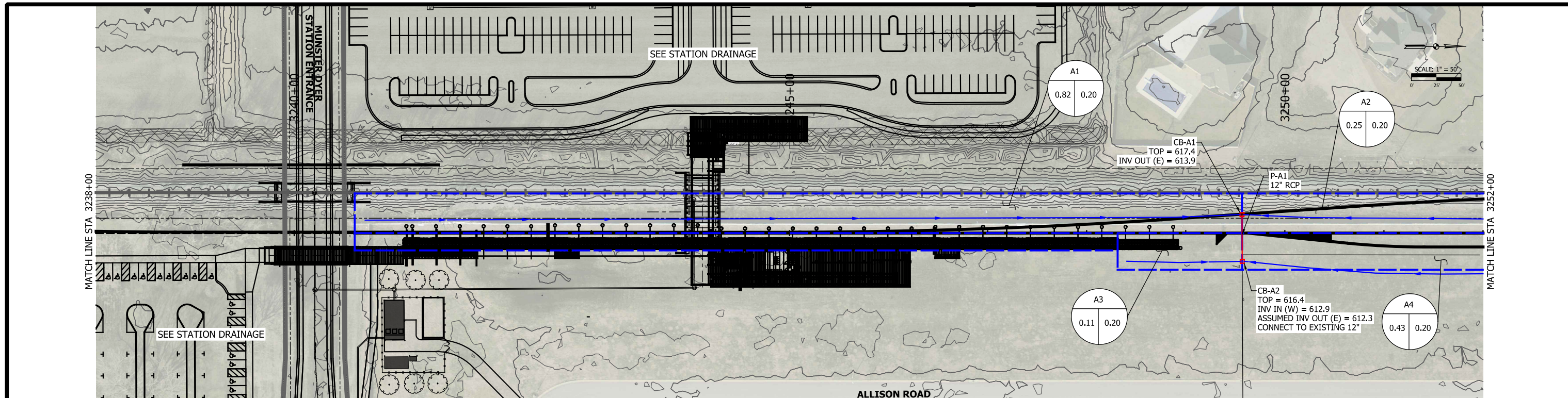
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DRAWN:	XXX
CHECKED:	XXX
DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES DRNPNP-1 OF DRNPNP-31

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18 SINGLE TRACK		
PLAN AND PROFILE DRAINAGE		
FILENAME	WL_DR-Sht-01.dgn	SHEET
SCALE	AS NOTED	14 OF 64



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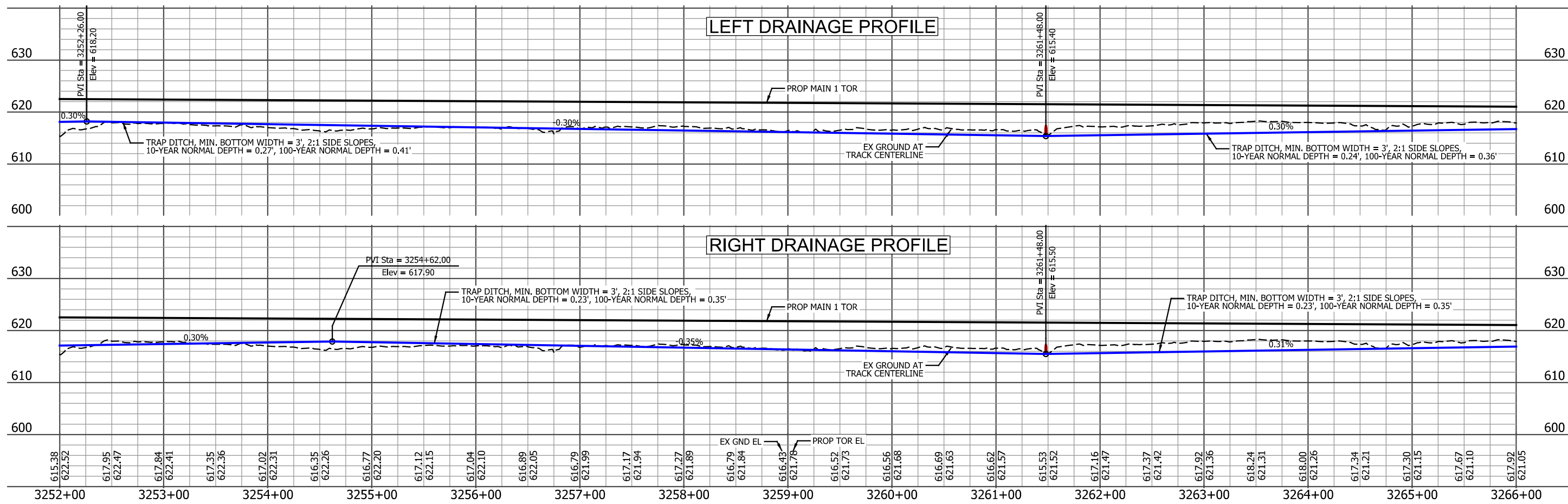
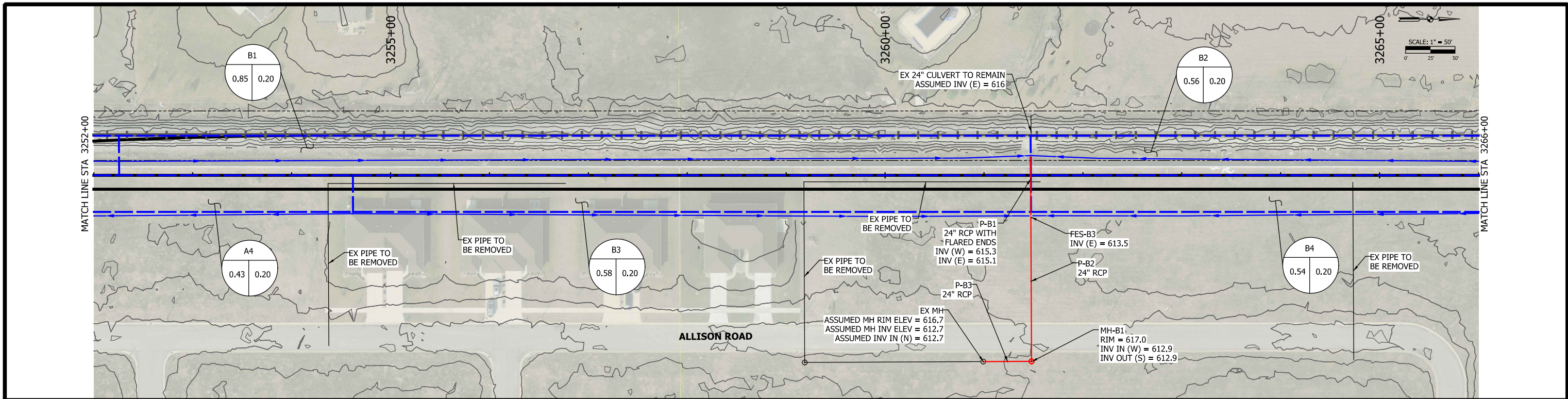
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CHECKED:	XXX
DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES DRNPNP-2 OF DRNPNP-13

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
SINGLE TRACK

PLAN AND PROFILE DRAINAGE

FILENAME	WL_DR-Sht-02.dgn	SHEET	15 OF 64
SCALE	AS NOTED		



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ISSUE	DATE	DESCRIPTION



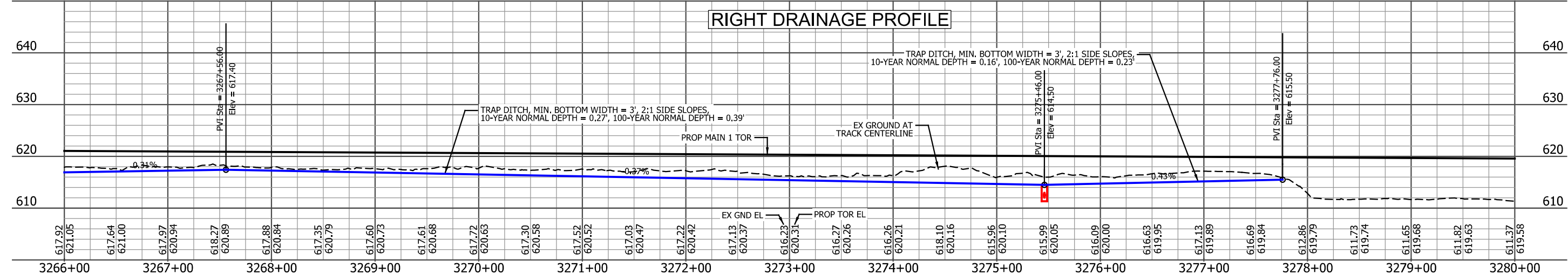
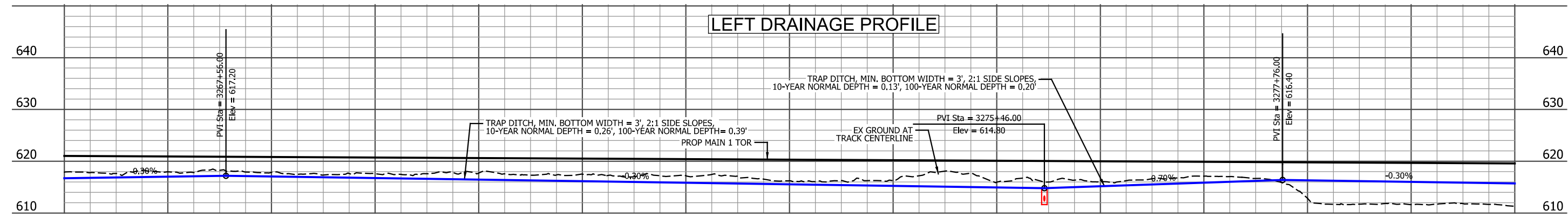
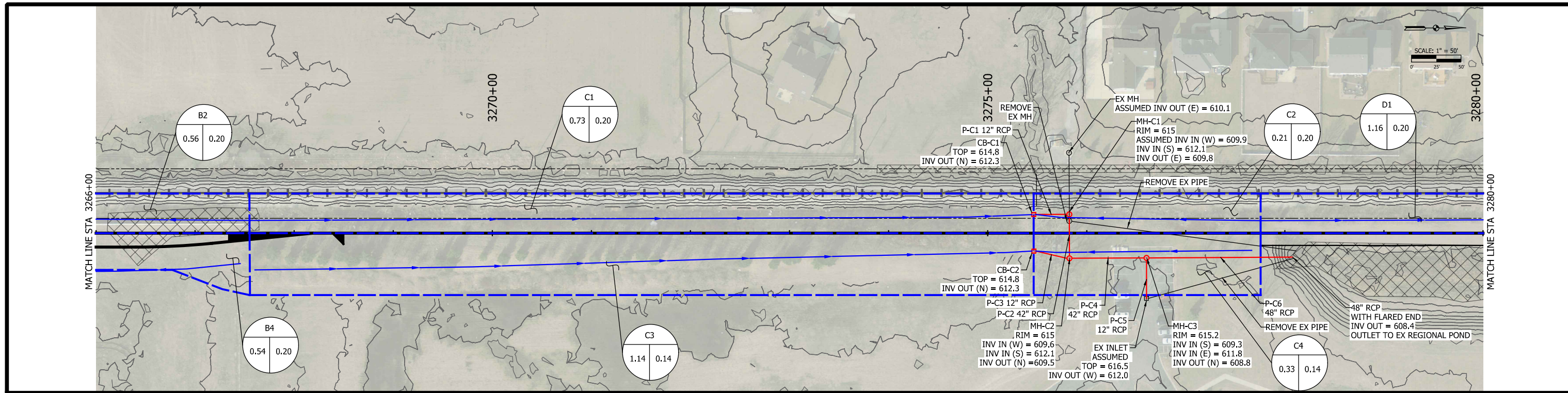
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DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES DRNPNP-3 OF DRNPNP-31

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18 SINGLE TRACK

PLAN AND PROFILE DRAINAGE

FILENAME	WL_DR-Sht-03.dgn	SHEET	16 OF 64
SCALE	AS NOTED		



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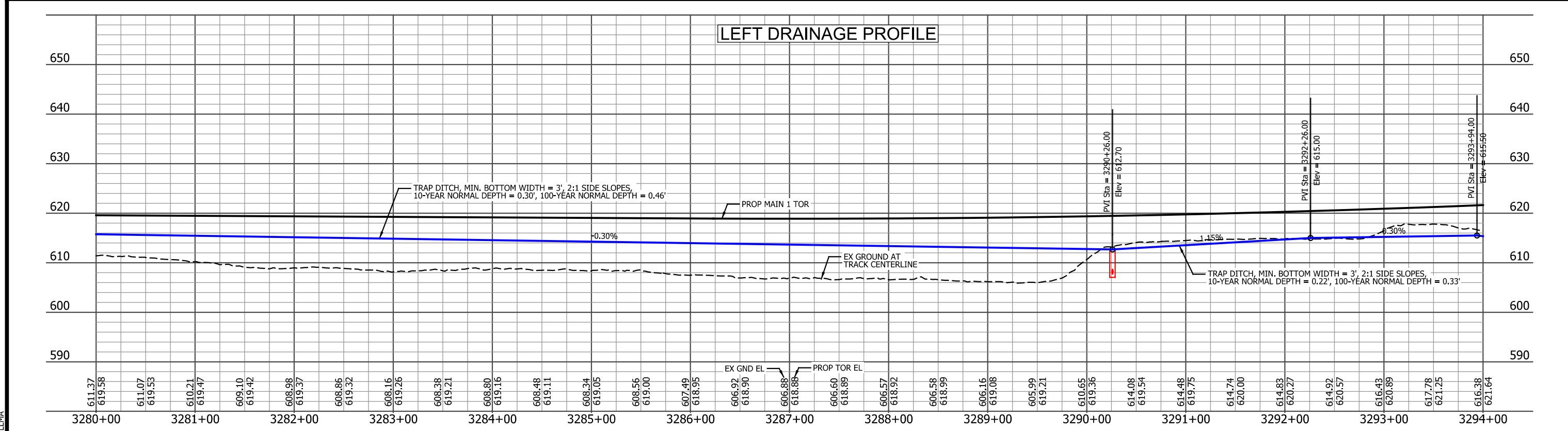
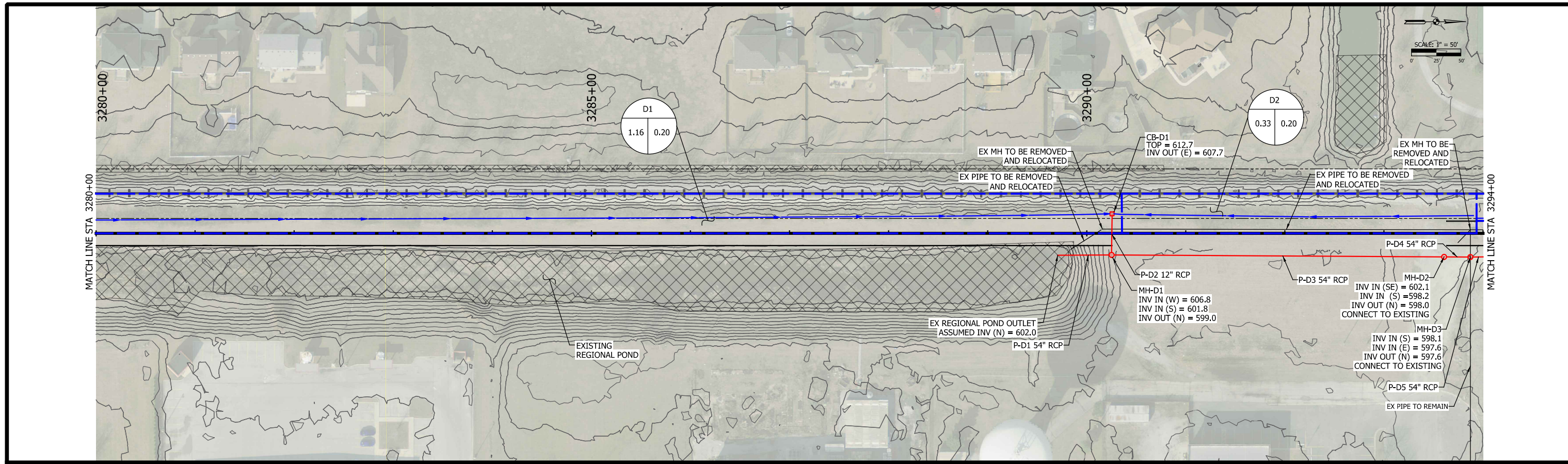
ISSUE	DATE	DESCRIPTION



DESIGNED:	XXX
DRAWN:	XXX
CHECKED:	XXX
DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES DRNPNP-4 OF DRNPNP-13

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18 SINGLE TRACK	
PLAN AND PROFILE DRAINAGE	
FILENAME	WL_DR-Sht-04.dgn
SCALE	AS NOTED
SHEET	17 OF 64



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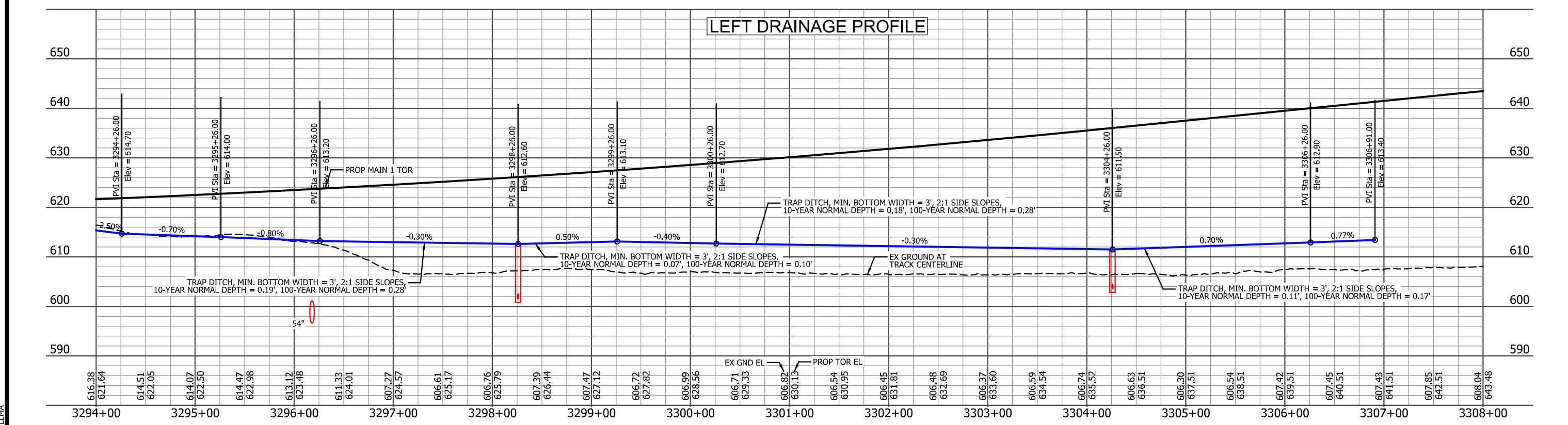
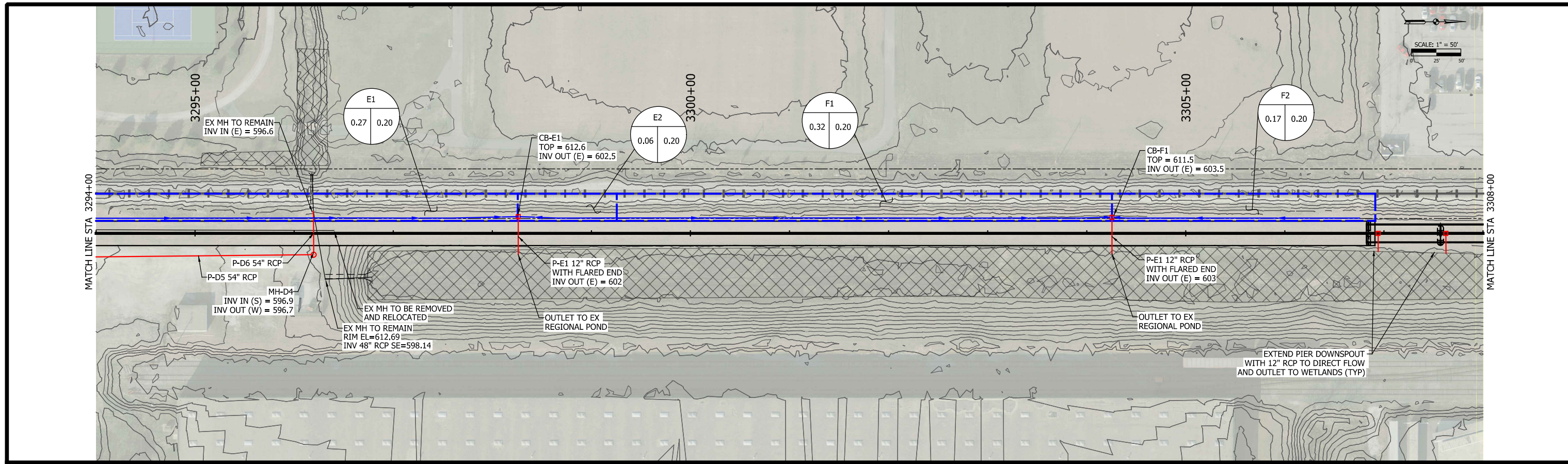


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DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES DRNPNP-5 OF DRNPNP-31

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18 SINGLE TRACK	
PLAN AND PROFILE DRAINAGE	
FILENAME	WL_DR-Sht-05.dgn
SCALE	AS NOTED
SHEET	18 OF 64



PLOT DATE: 7/20/2017 2:06:39 PM JKJELLM



ISSUE	DATE	DESCRIPTION



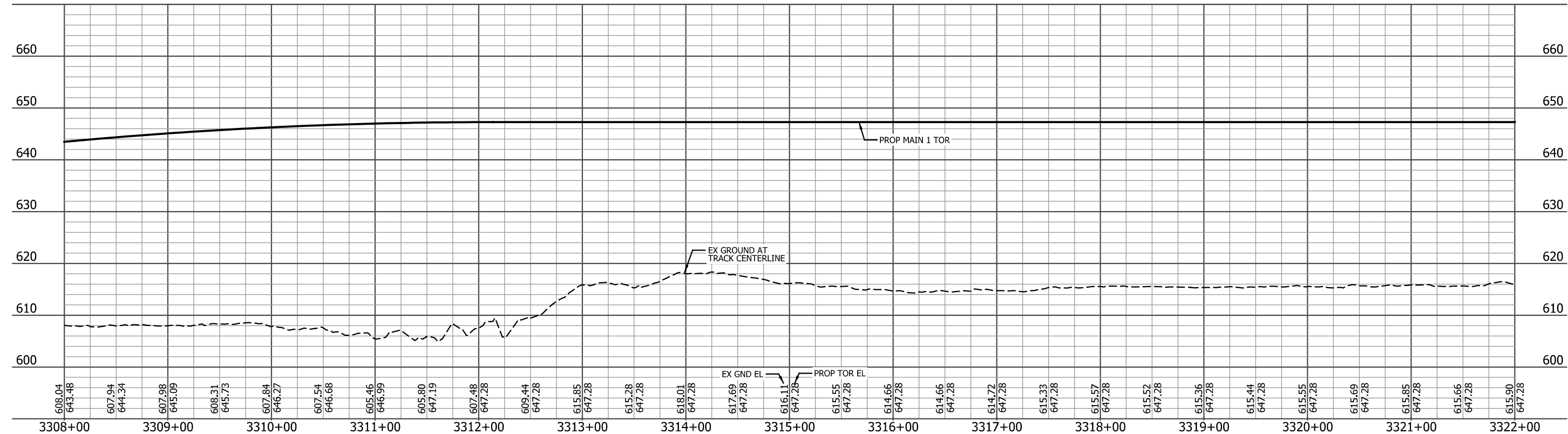
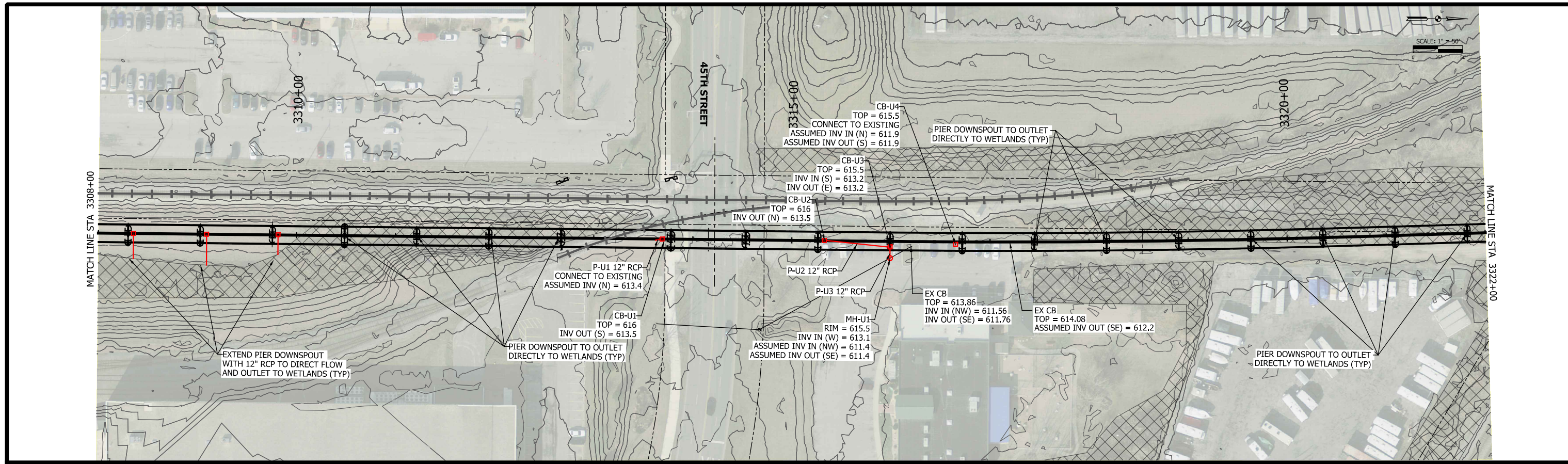
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DATE:	07/21/17

NOT FOR CONSTRUCTION

SERIES DRPNP-6 OF DRPNP-13
NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
SINGLE TRACK

PLAN AND PROFILE DRAINAGE

FILENAME	WL_DR-Sht-06.dgn	SHEET	19 OF 64
SCALE	AS NOTED		



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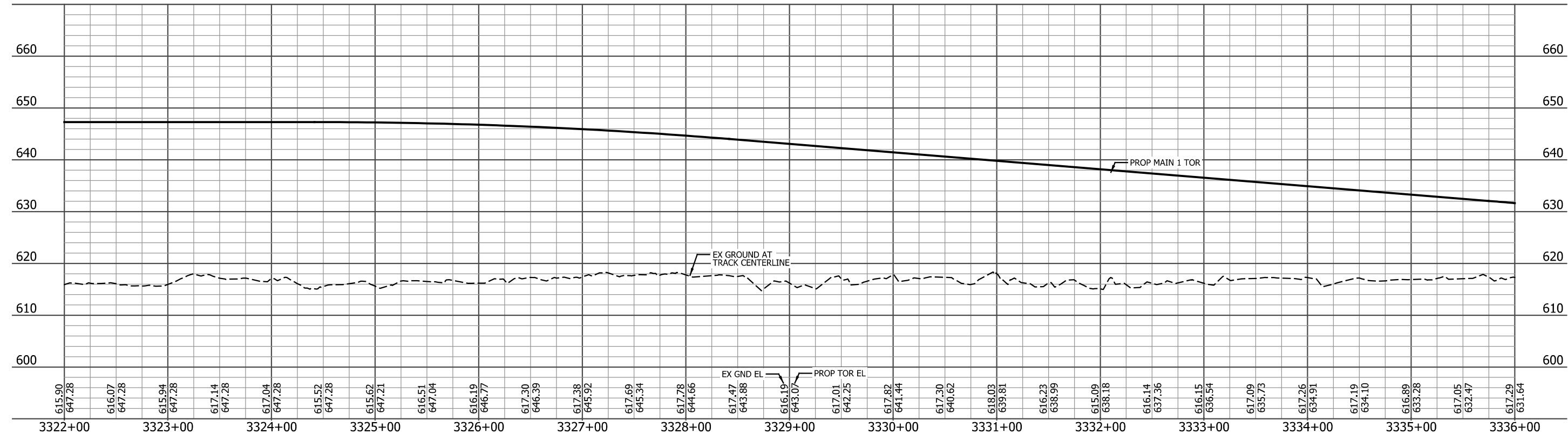
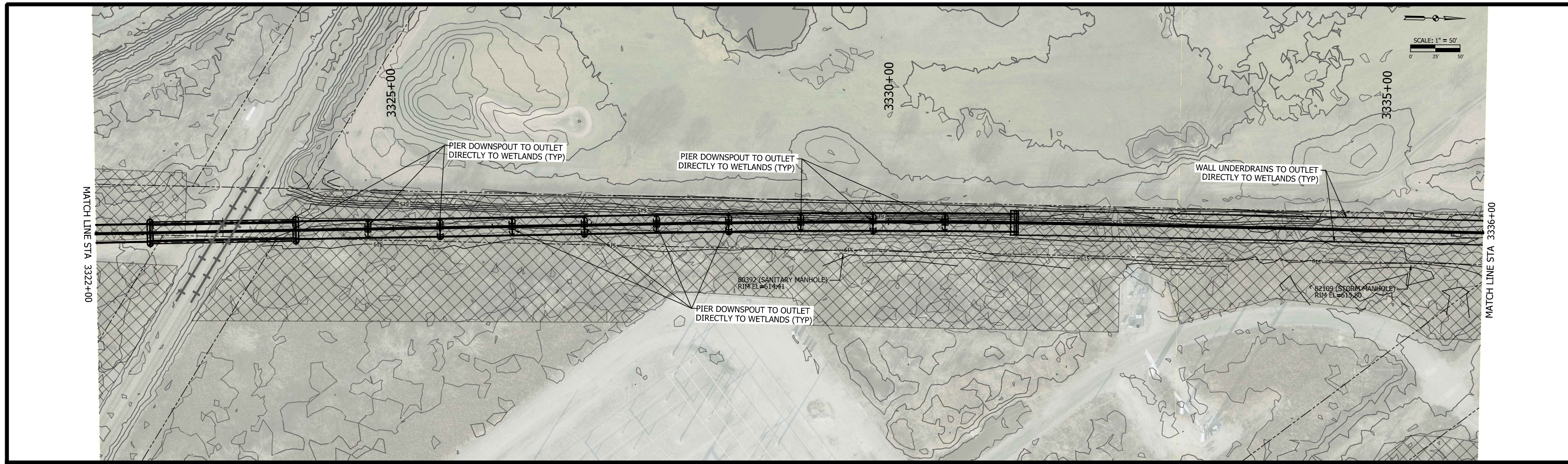
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DRAWN:	XXX
CHECKED:	XXX
DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES DRNPNP-7 OF DRNPNP-31

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18 SINGLE TRACK	
PLAN AND PROFILE DRAINAGE	
FILENAME	WL_DR-Sht-07.dgn
SCALE	AS NOTED
SHEET	20 OF 64



STATION	EX GND EL	PROP TOR EL
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3323+00	616.07	647.28
3324+00	615.94	647.28
3325+00	617.14	647.28
3326+00	617.04	647.28
3327+00	615.52	647.28
3328+00	615.62	647.21
3329+00	616.51	647.04
3330+00	616.19	646.77
3331+00	617.30	646.39
3332+00	617.38	645.92
3333+00	617.69	645.34
3334+00	617.78	644.66
3335+00	617.47	643.88
3336+00	616.19	643.07
3337+00	617.01	642.25
3338+00	617.82	641.44
3339+00	617.30	640.62
3340+00	618.03	639.81
3341+00	616.23	638.99
3342+00	615.09	638.18
3343+00	616.14	637.36
3344+00	616.15	636.54
3345+00	617.09	635.73
3346+00	617.26	634.91
3347+00	617.19	634.10
3348+00	616.89	633.28
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ISSUE	DATE	DESCRIPTION



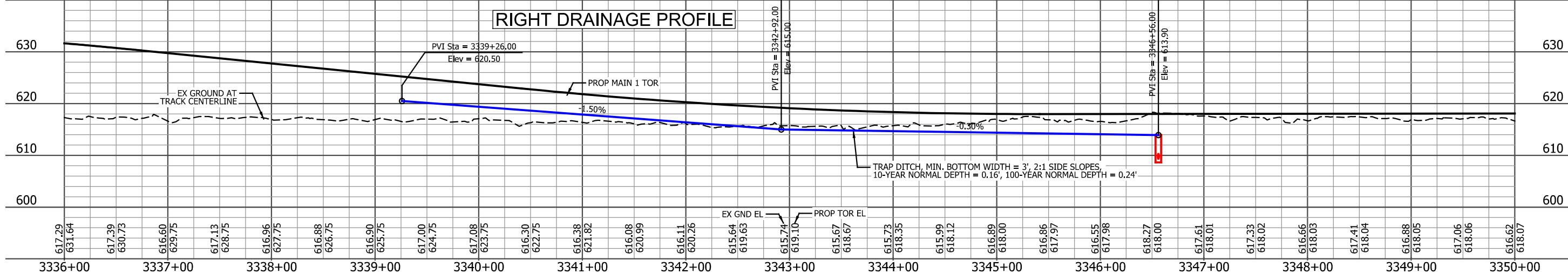
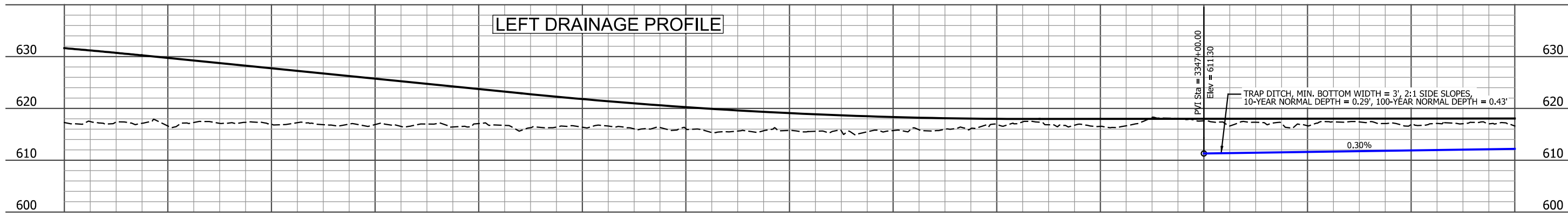
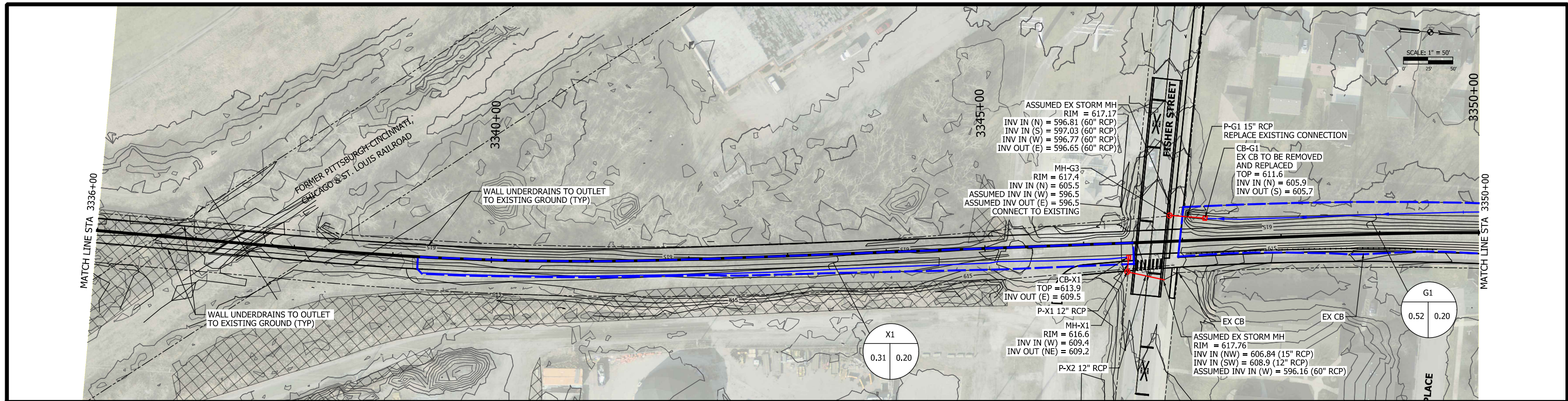
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DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES DRNPNP-8 OF DRNPNP-31

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
SINGLE TRACK

**PLAN AND PROFILE
DRAINAGE**

FILENAME	WL_DR-Sht-08.dgn	SHEET	21 OF 64
SCALE	AS NOTED		



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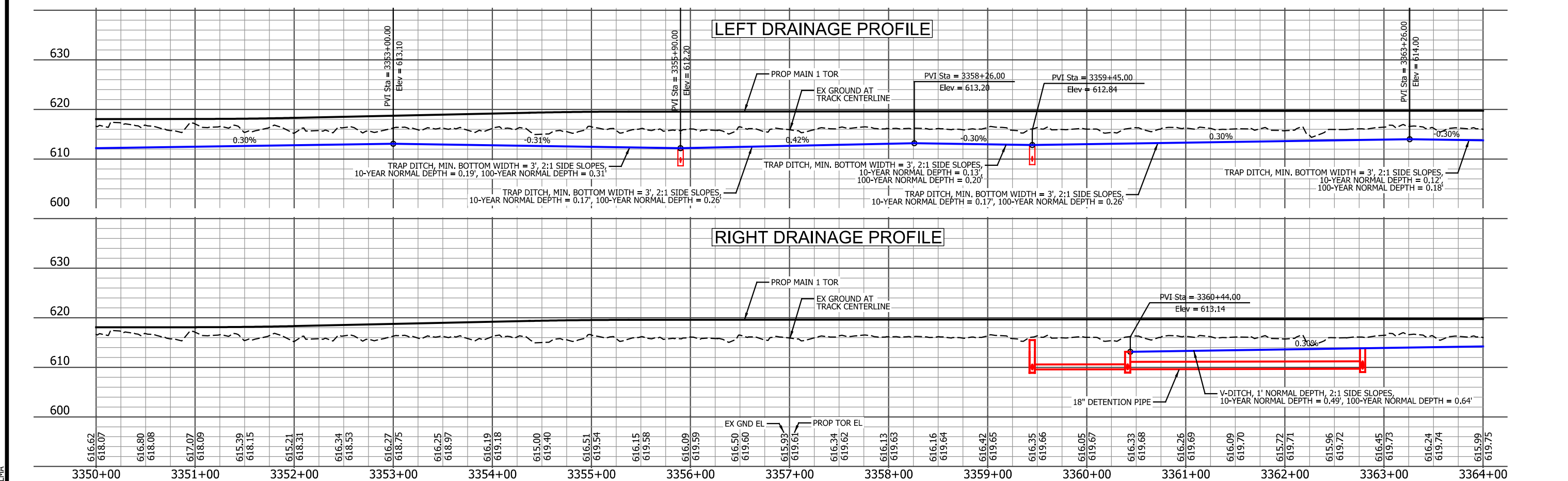
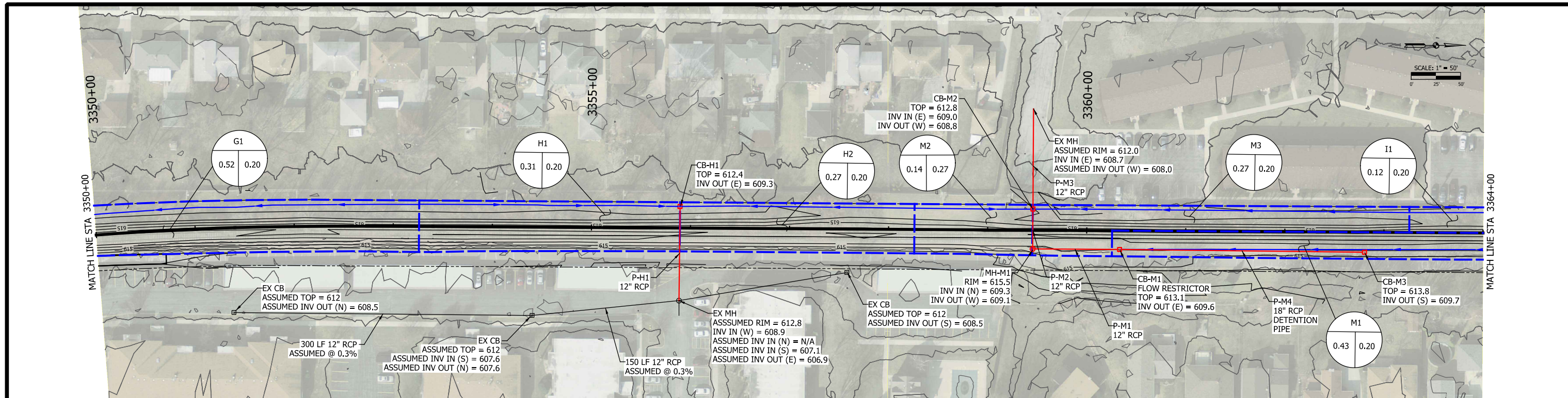
ISSUE	DATE	DESCRIPTION



DESIGNED:	XXX
DRAWN:	XXX
CHECKED:	XXX
DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES DRNPNP-9 OF DRNPNP-31

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18 SINGLE TRACK	
PLAN AND PROFILE DRAINAGE	
FILENAME	WL_DR-Sht-09.dgn
SCALE	AS NOTED
SHEET	22 OF 64



PLOT DATE: 7/20/2017 2:08:12 PM JKJELMA



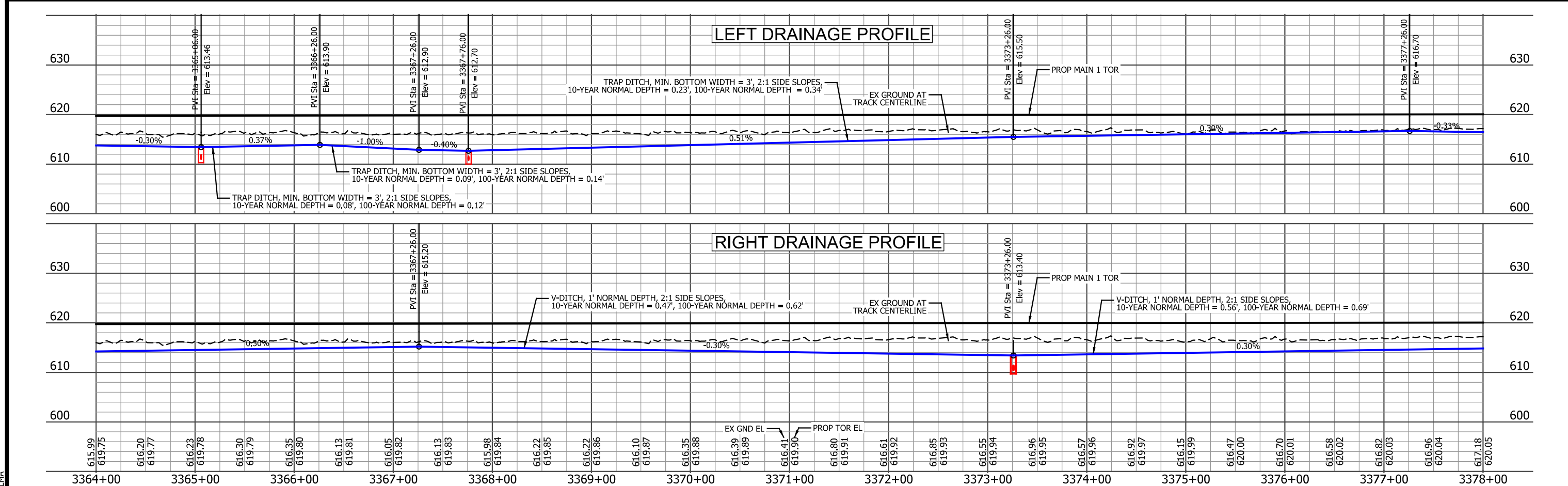
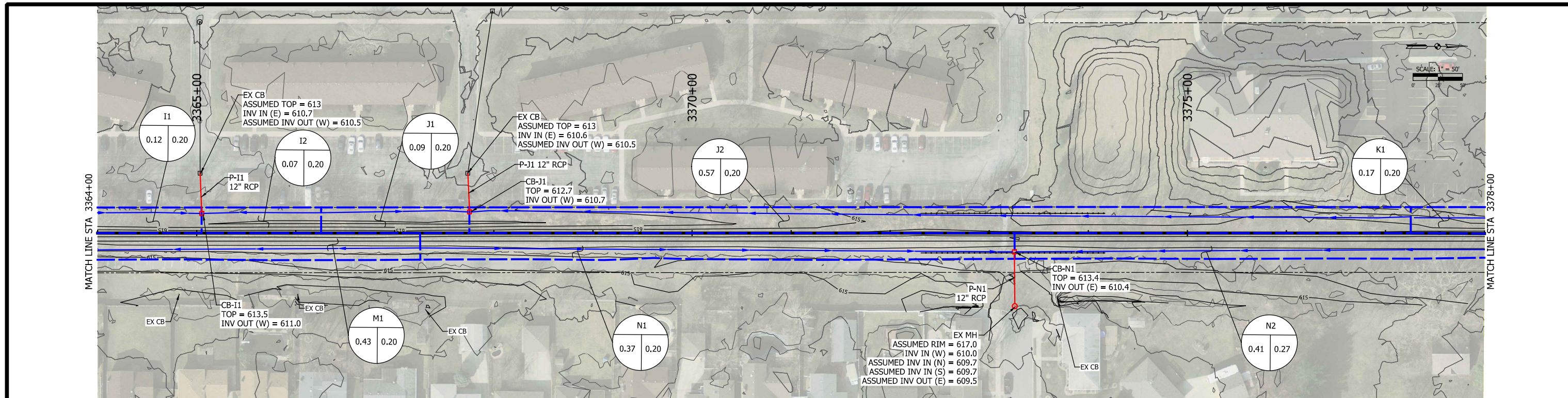
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DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES DRNPNP-10 OF DRNPNP-31

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18 SINGLE TRACK	
PLAN AND PROFILE DRAINAGE	
FILENAME	WL_DR-Sht-10.dgn
SCALE	AS NOTED
SHEET	23 OF 64



PLOT DATE: 7/20/2017 2:08:32 PM JKJELMA



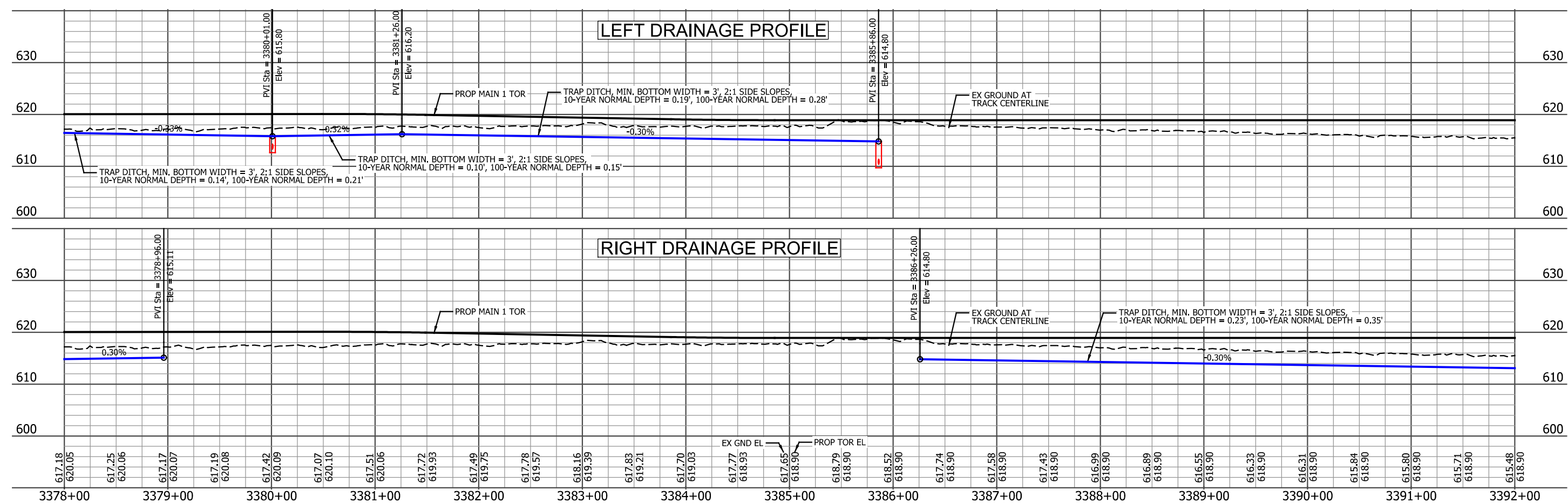
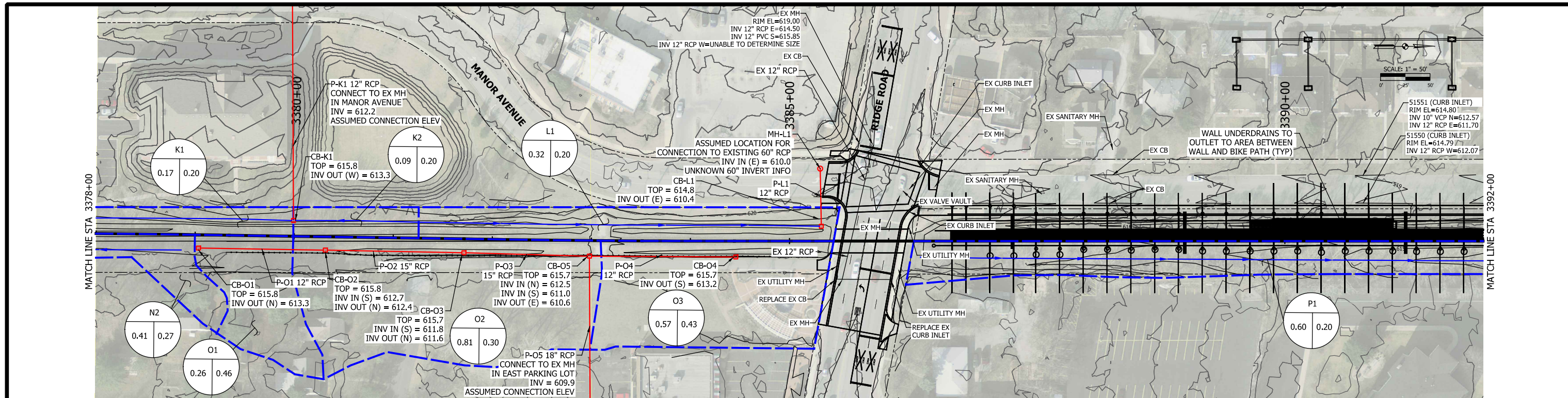
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DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES DRPNP-11 OF DRPNP-11

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18 SINGLE TRACK	
PLAN AND PROFILE DRAINAGE	
FILENAME	WL_DR-Sht-11.dgn
SCALE	AS NOTED
SHEET	24 OF 64



PLOT DATE: 7/20/2017 2:09:37 PM

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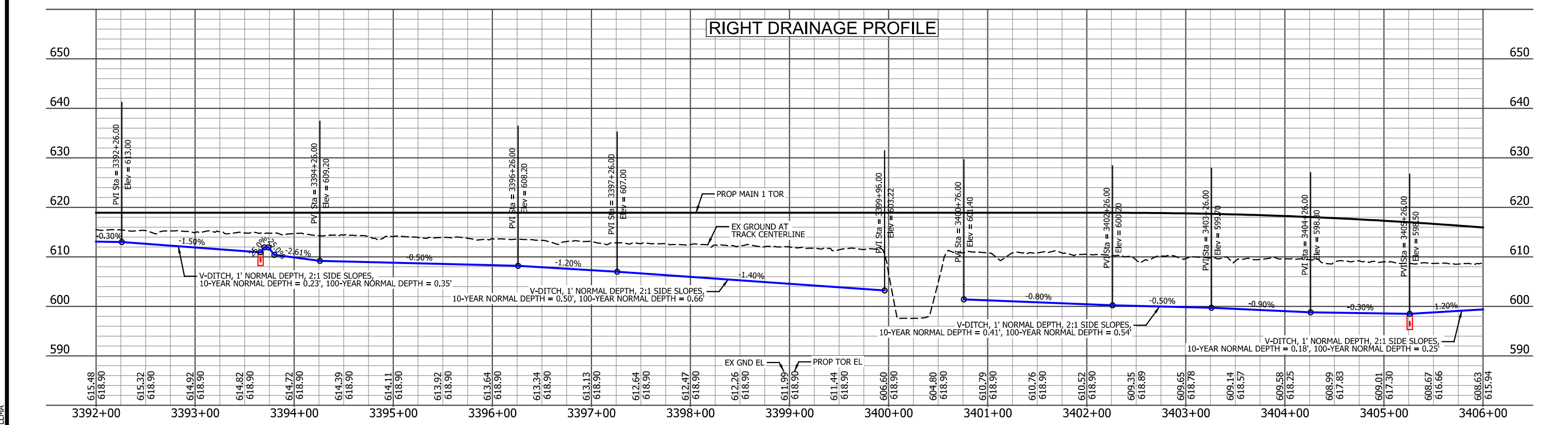
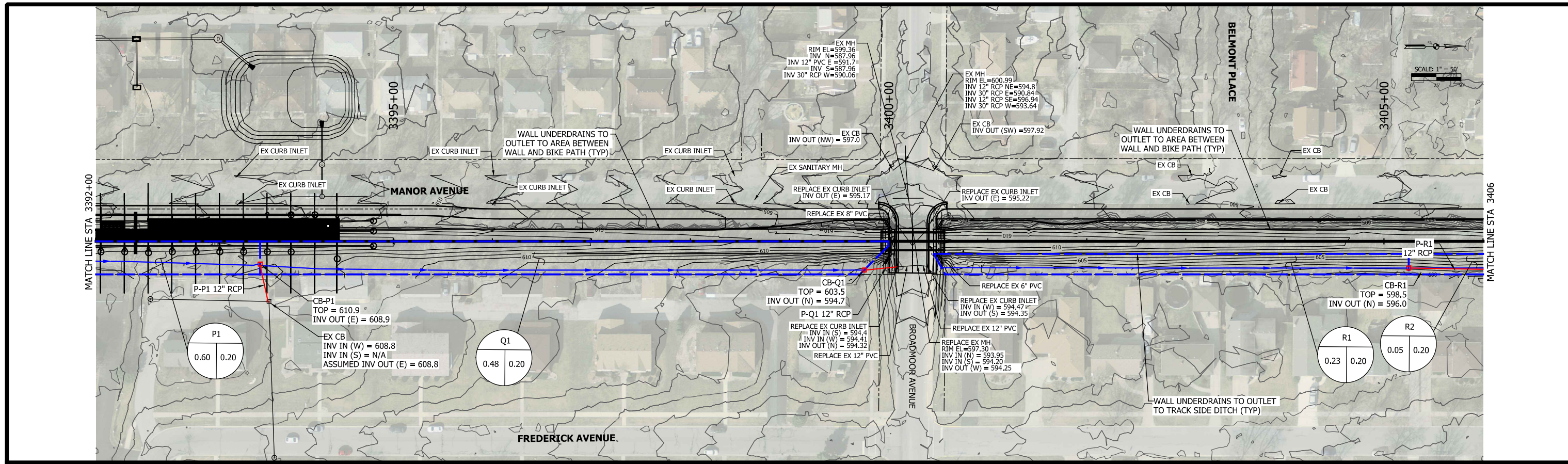
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DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES DRPNP-12 OF DRPNP-13

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18 SINGLE TRACK	
PLAN AND PROFILE DRAINAGE	
FILENAME	WL_DR-Sht-12.dgn
SCALE	AS NOTED
SHEET	25 OF 64



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ISSUE	DATE	DESCRIPTION



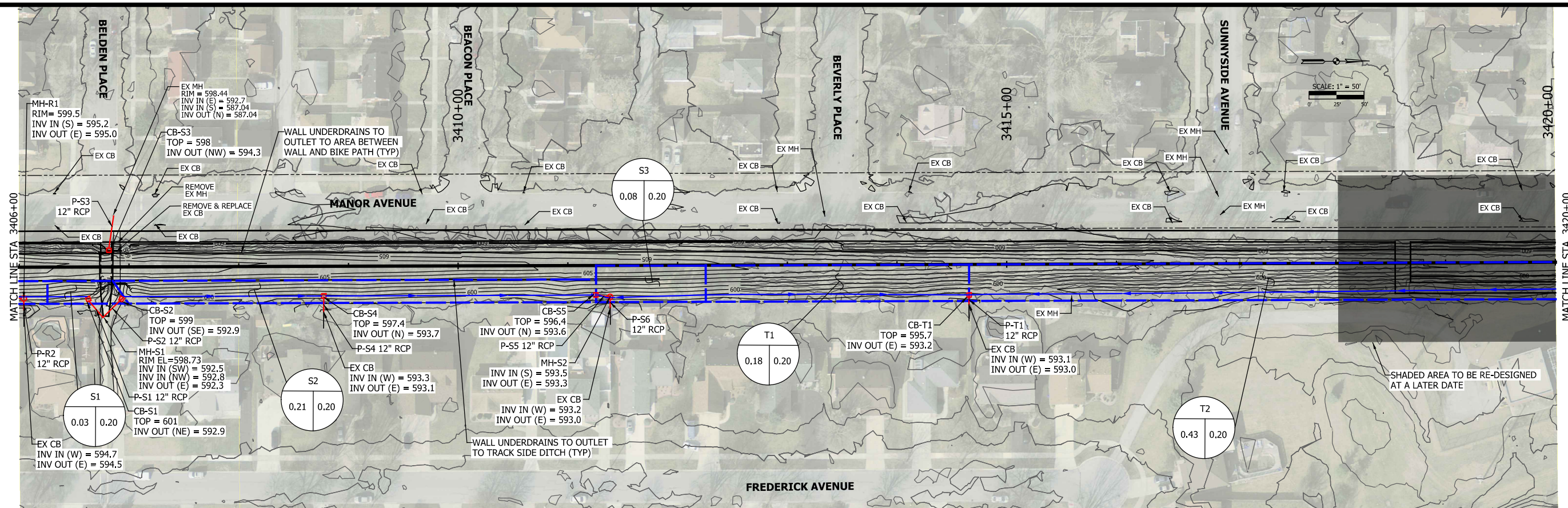
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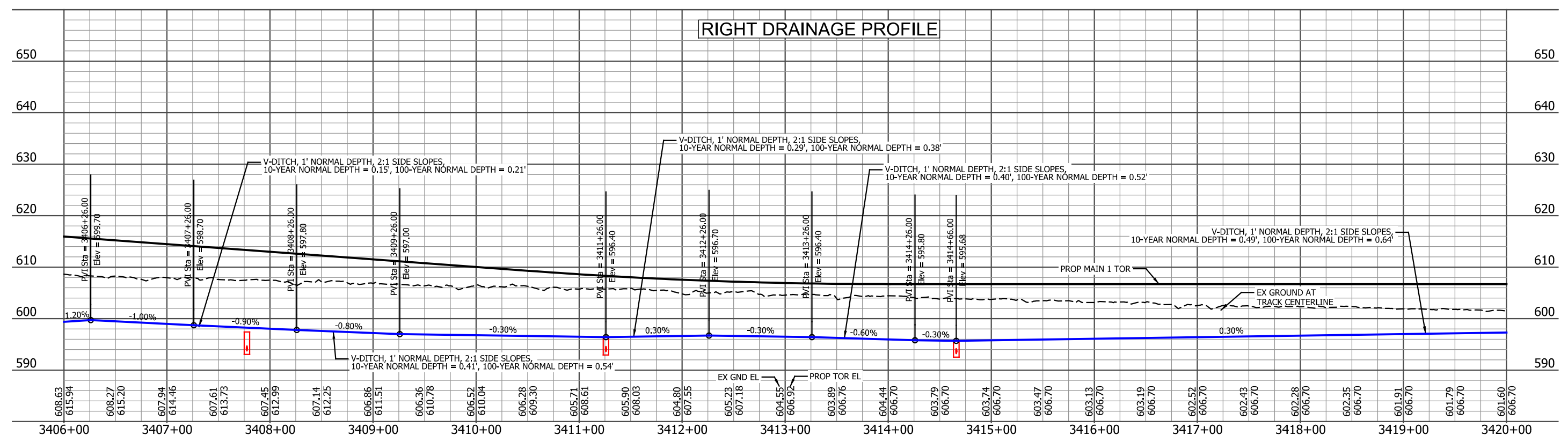
NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
SINGLE TRACK

PLAN AND PROFILE DRAINAGE

FILENAME	WL_DR-Sht-13.dgn	SHEET	26 OF 64
SCALE	AS NOTED		



RIGHT DRAINAGE PROFILE



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ISSUE	DATE	DESCRIPTION



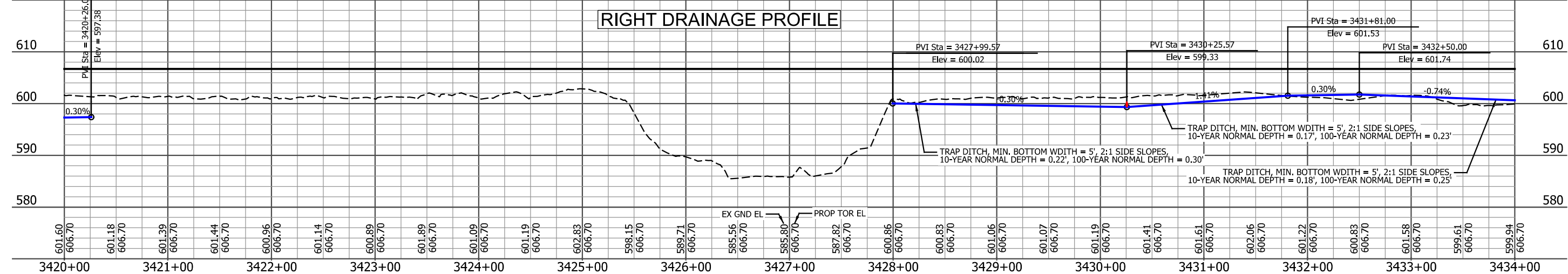
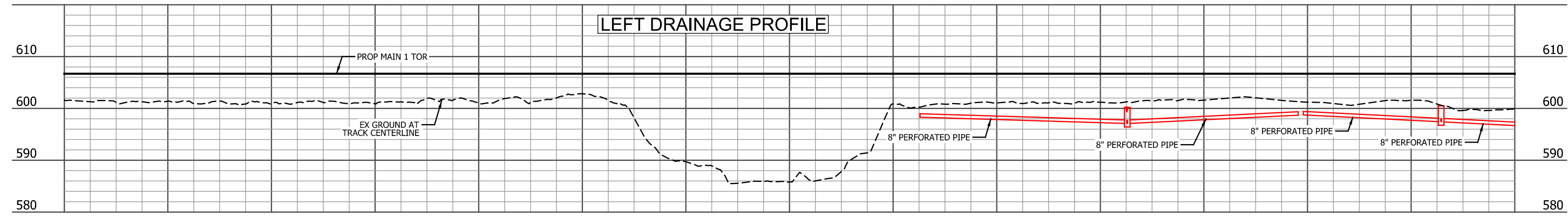
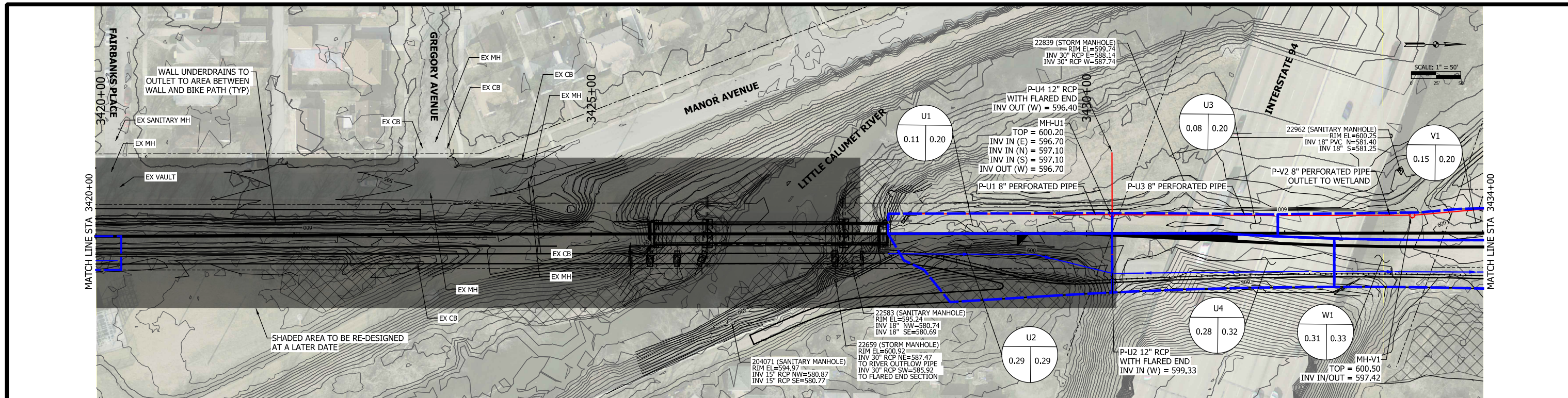
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NOT FOR CONSTRUCTION SERIES DRNPNP-14 OF DRNPNP-31

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
SINGLE TRACK

PLAN AND PROFILE DRAINAGE

FILENAME	WL_DR-Sht-14.dgn	SHEET	27 OF 64
SCALE	AS NOTED		



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ISSUE	DATE	DESCRIPTION



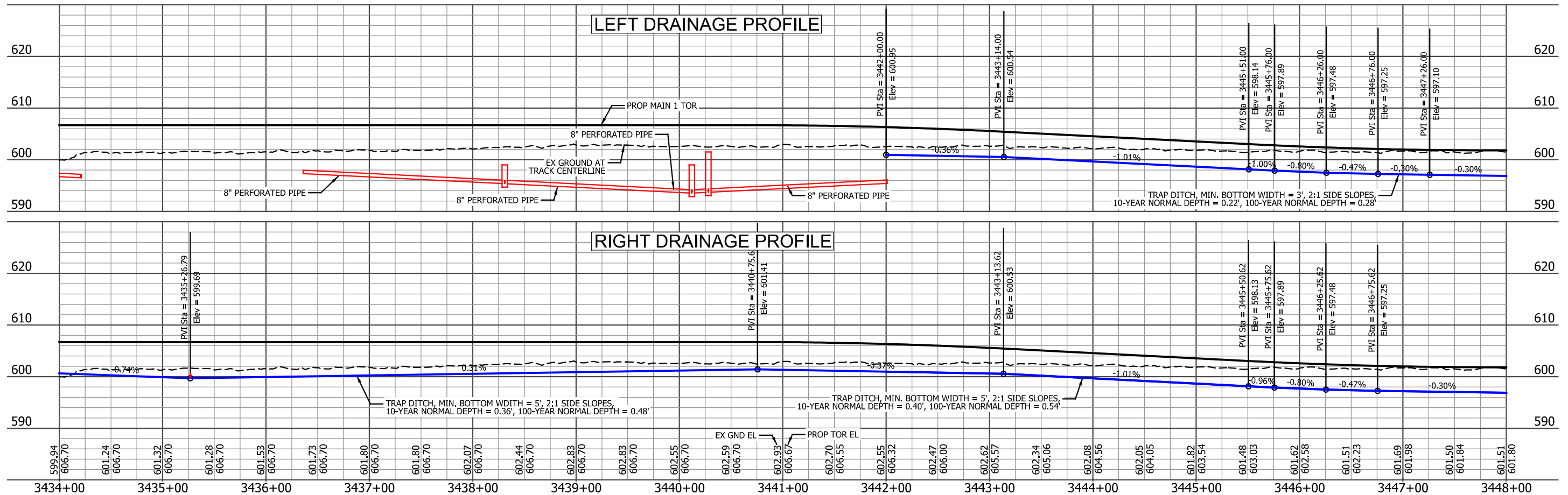
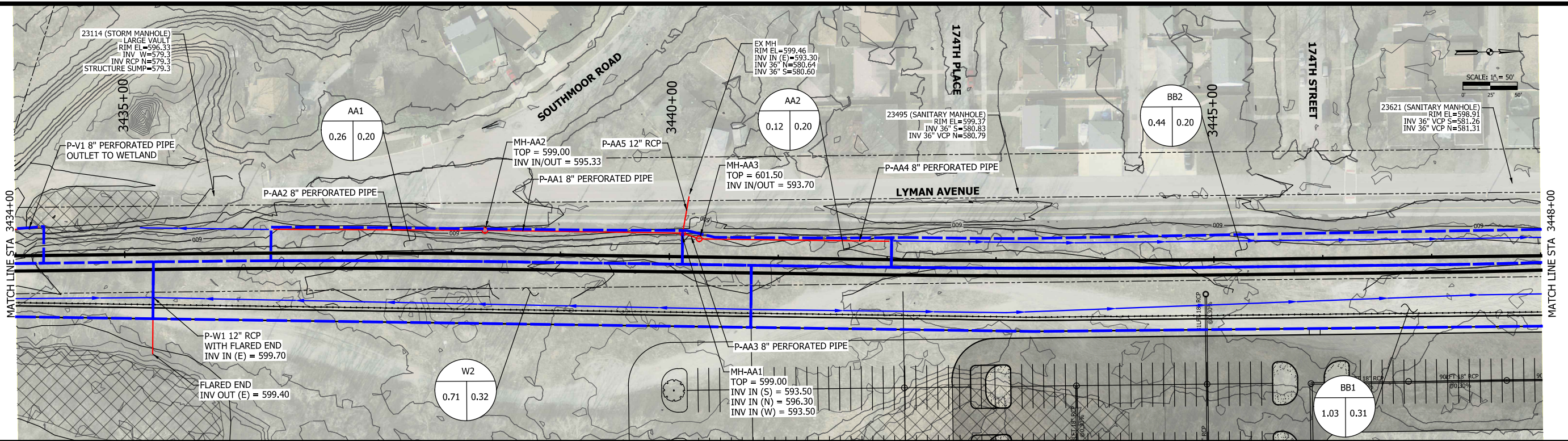
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DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES DRPNP-15 OF DRPNP-131

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18 SINGLE TRACK

PLAN AND PROFILE DRAINAGE

FILENAME	WL_DR-Sht-15.dgn	SHEET	28 OF 64
SCALE	AS NOTED		



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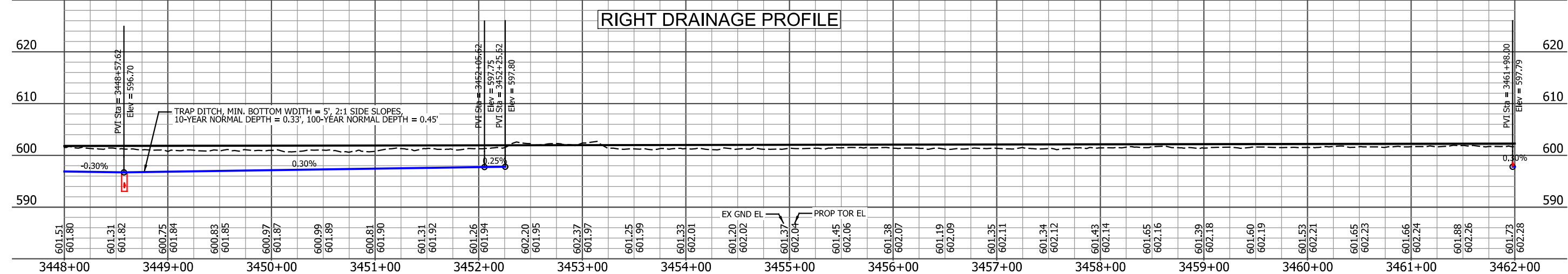
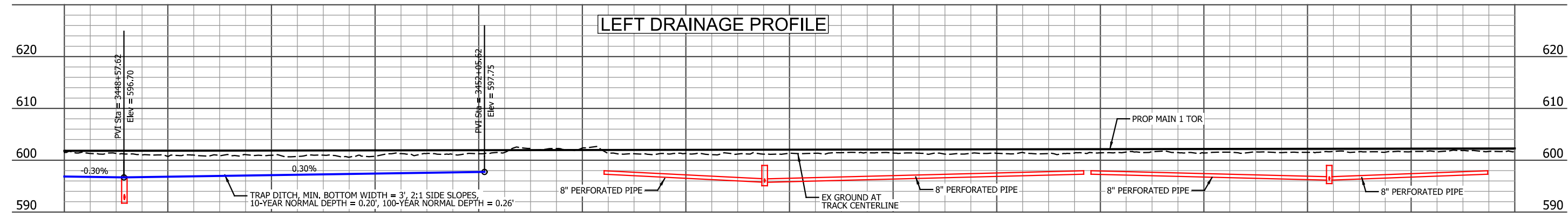
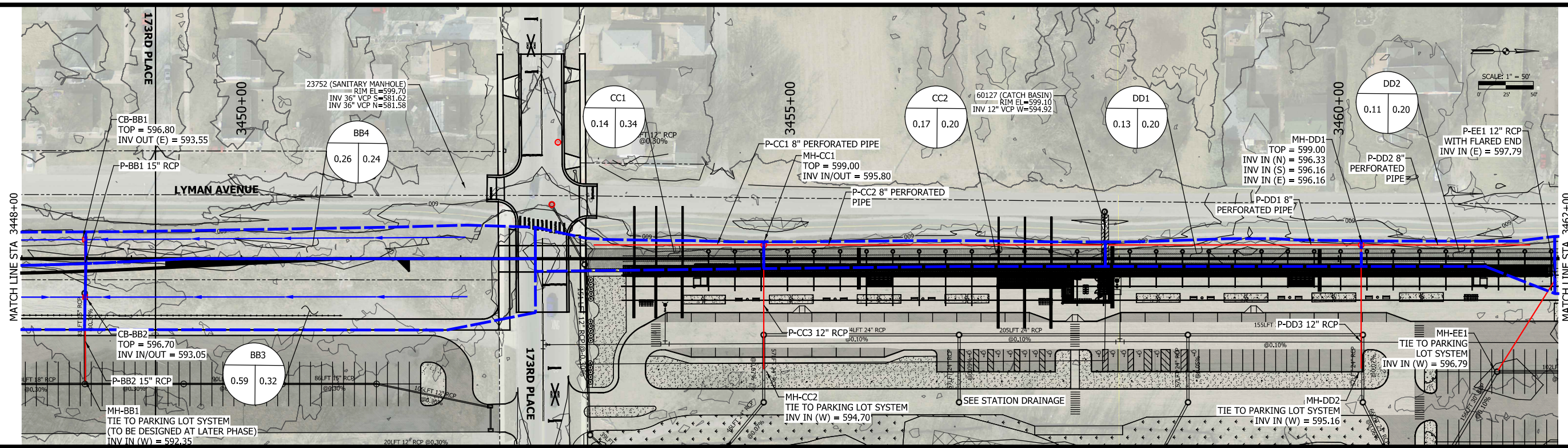
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DATE: 07/21/17

NOT FOR CONSTRUCTION SERIES DRNPNP-16 OF DRNPNP-131

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
SINGLE TRACK

PLAN AND PROFILE DRAINAGE

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SCALE	AS NOTED		



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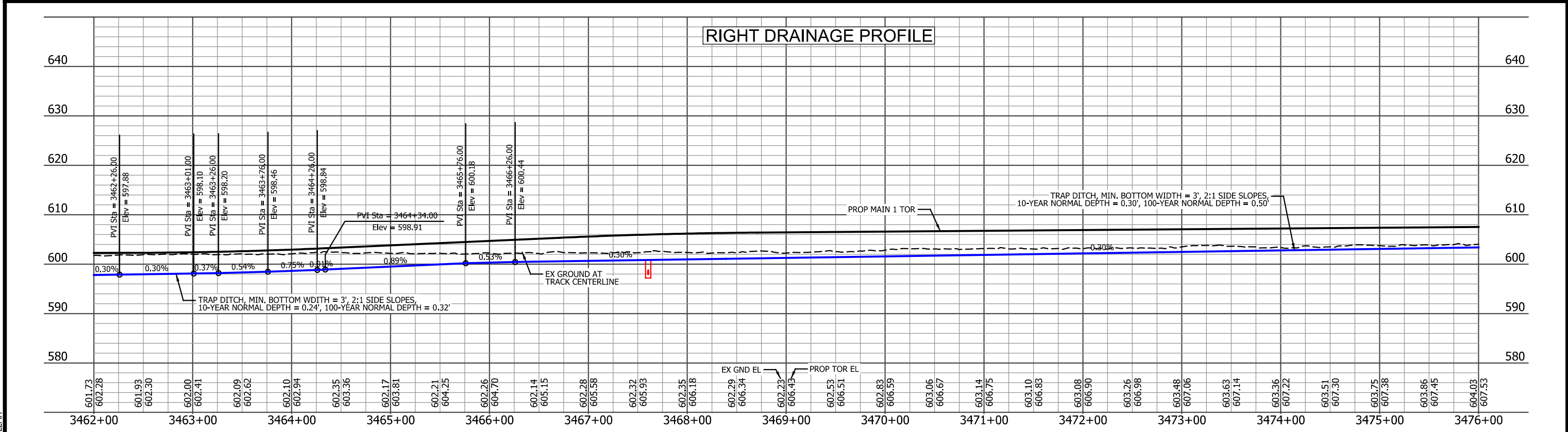
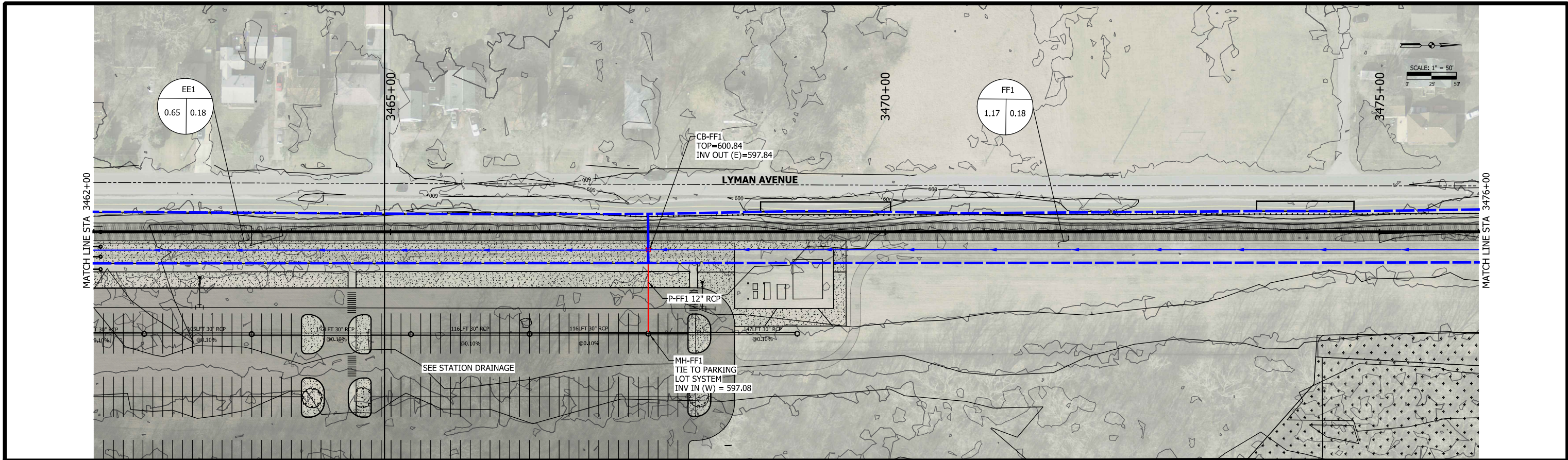
ISSUE	DATE	DESCRIPTION



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DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES DRPNP-17 OF DRPNP-17

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18 SINGLE TRACK	
FILENAME	WL_DR-Sht-17.dgn
SCALE	AS NOTED
SHEET	30 OF 64



PLOT DATE: 7/20/2017 2:11:51 PM JKJELMA



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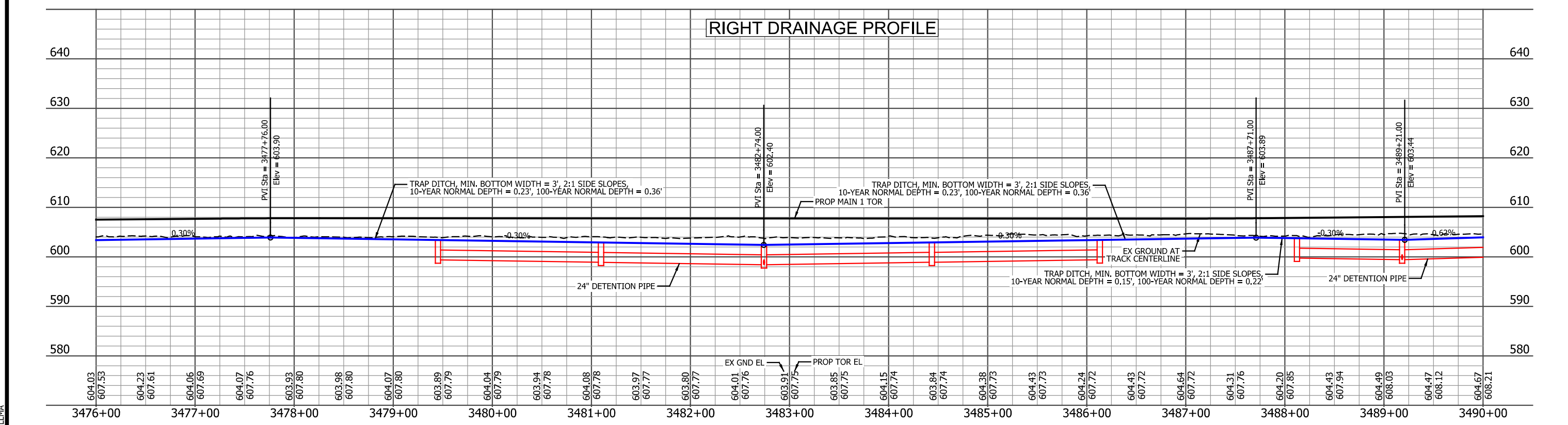
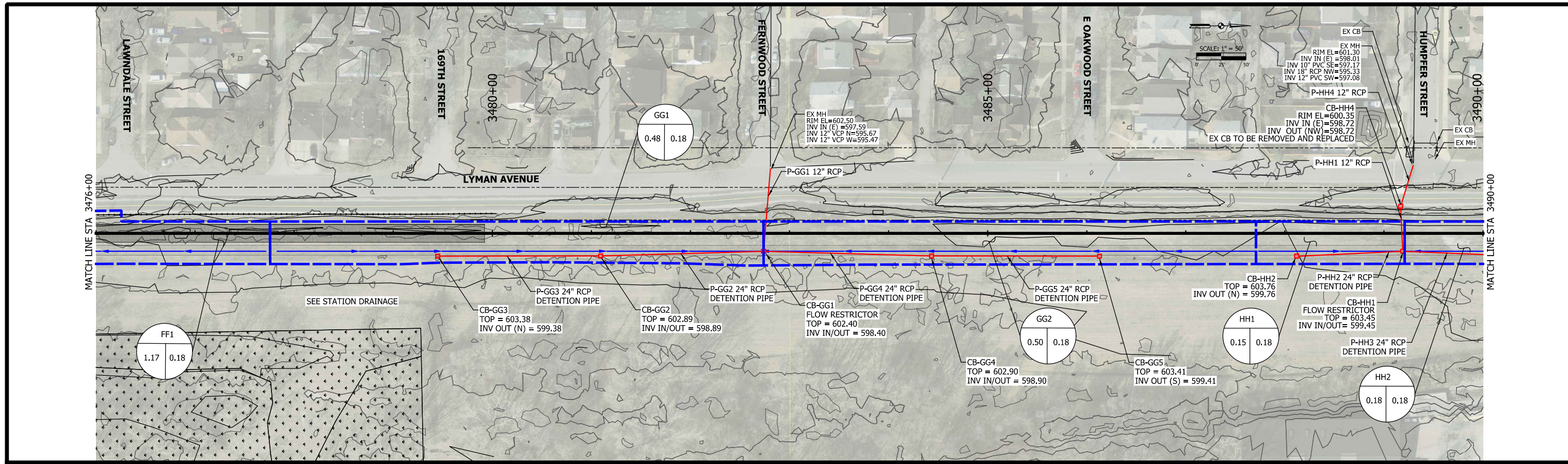
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CHECKED:	XXX
DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES DRNPNP-18 OF DRNPNP-31

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
SINGLE TRACK

PLAN AND PROFILE DRAINAGE

FILENAME	WL_DR-Sht-18.dgn	SHEET	31 OF 64
SCALE	AS NOTED		



PLOT DATE: 7/20/2017 2:12:17 PM
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ISSUE	DATE	DESCRIPTION



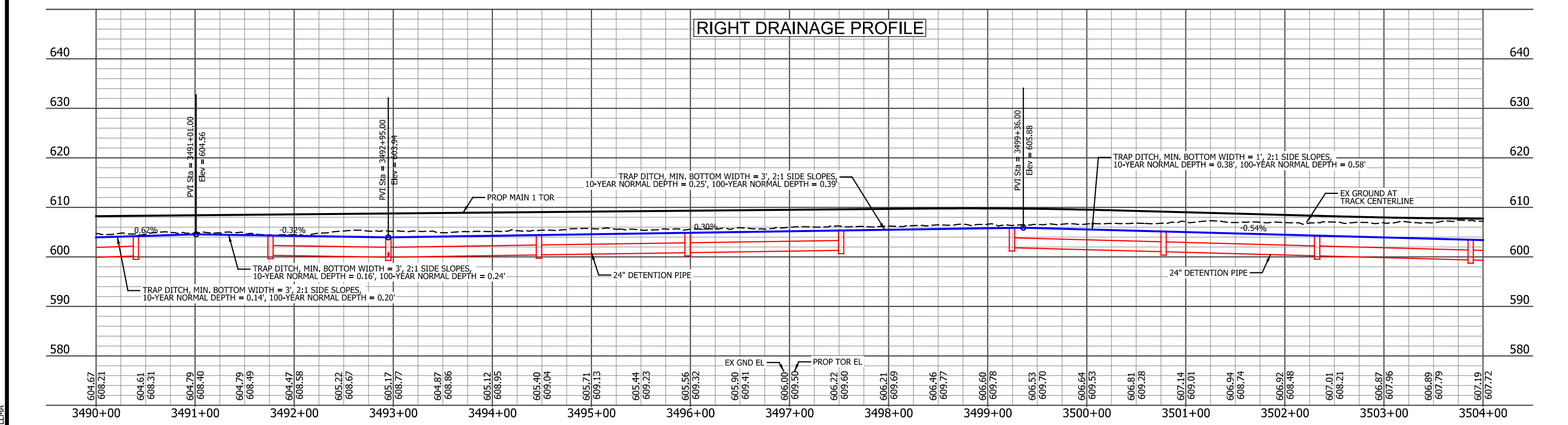
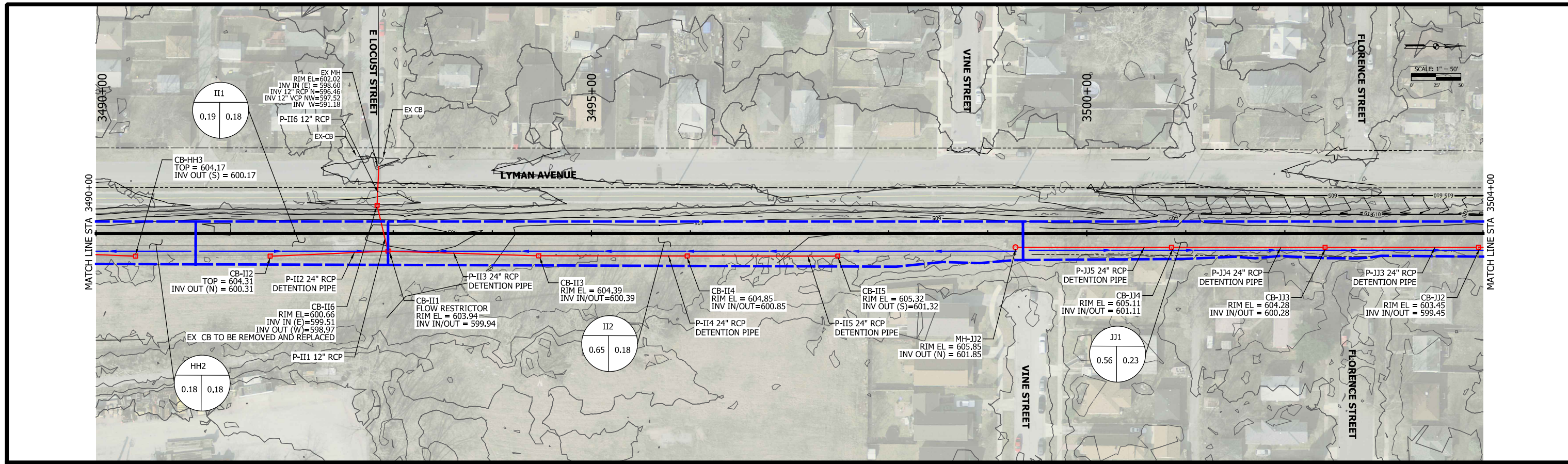
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DRAWN:	XXX
CHECKED:	XXX
DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES DRNPNP-19 OF DRNPNP-31

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
 SINGLE TRACK

PLAN AND PROFILE DRAINAGE

FILENAME	WL_DR-Sht-19.dgn	SHEET	32 OF 64
SCALE	AS NOTED		



PLOT DATE: 7/20/2017 2:12:38 PM JKJELLM



ISSUE	DATE	DESCRIPTION



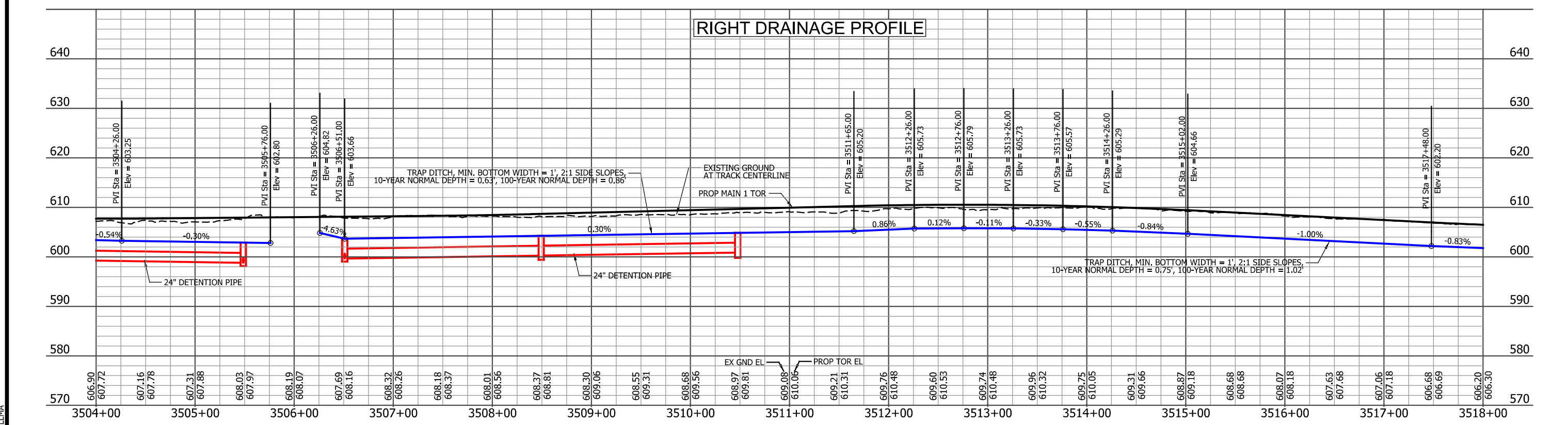
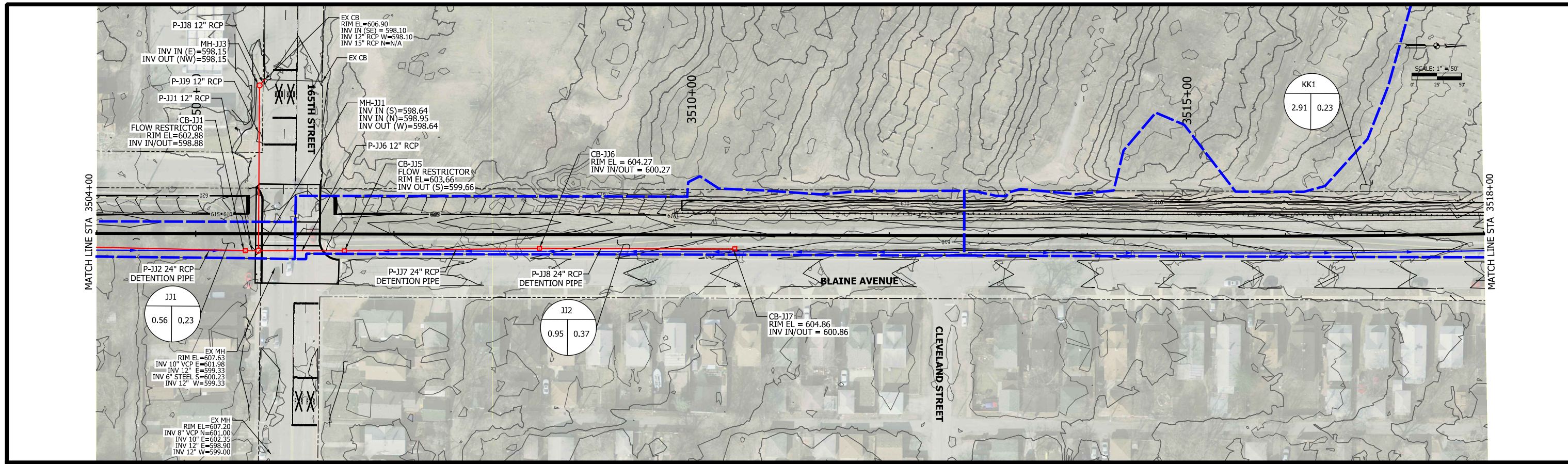
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CHECKED:	XXX
DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES DRNPNP-20 OF DRNPNP-31

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18 SINGLE TRACK

PLAN AND PROFILE DRAINAGE

FILENAME	WL_DR-Sht-20.dgn	SHEET	33 OF 64
SCALE	AS NOTED		



PLOT DATE: 7/20/2017 2:13:07 PM JKJELLM



ISSUE	DATE	DESCRIPTION



DESIGNED:	XXX
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CHECKED:	XXX
DATE:	07/21/17

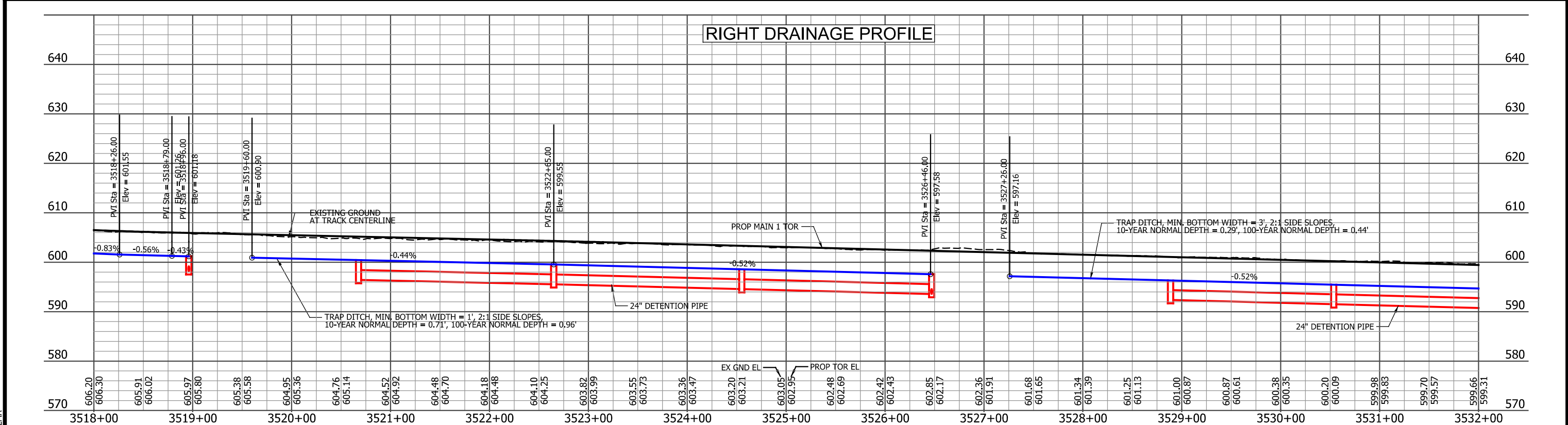
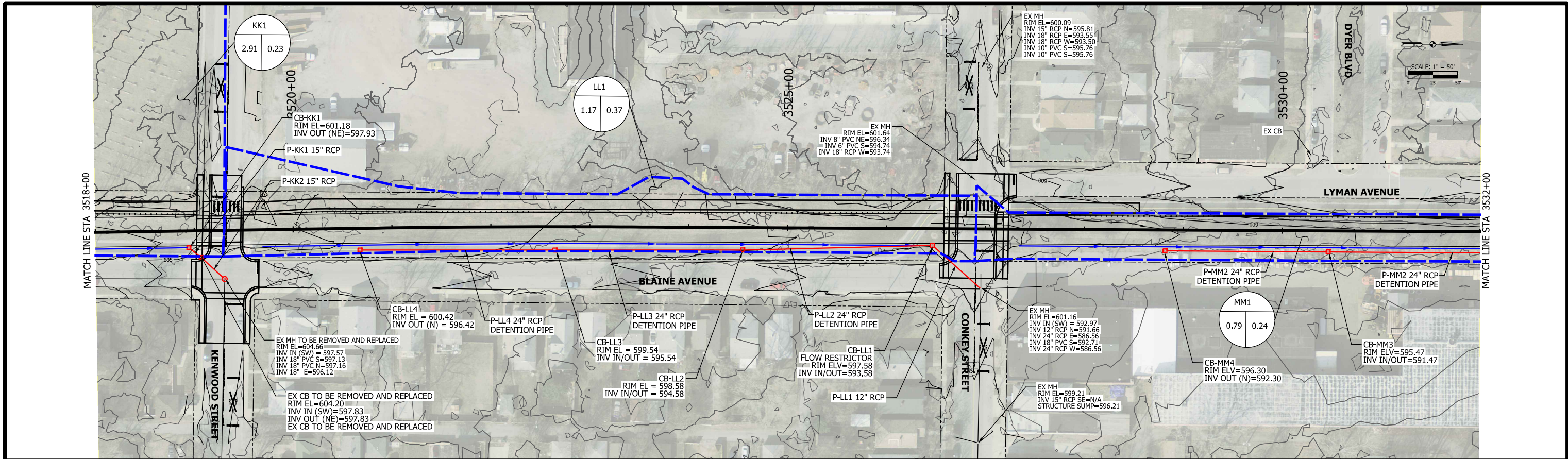
NOT FOR CONSTRUCTION

SERIES DRNPNP-21 OF DRNPNP-31

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18 SINGLE TRACK

PLAN AND PROFILE DRAINAGE

FILENAME	WL_DR-Sht-21.dgn	SHEET	34 OF 64
SCALE	AS NOTED		



PLOT DATE: 7/20/2017 2:13:35 PM JKJELMMA



ISSUE	DATE	DESCRIPTION



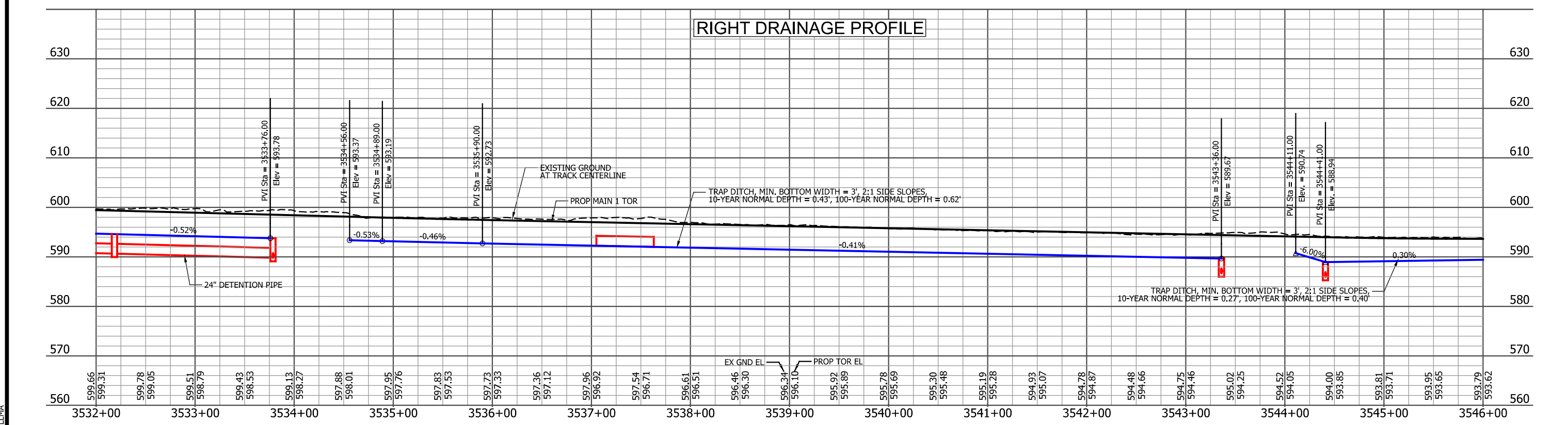
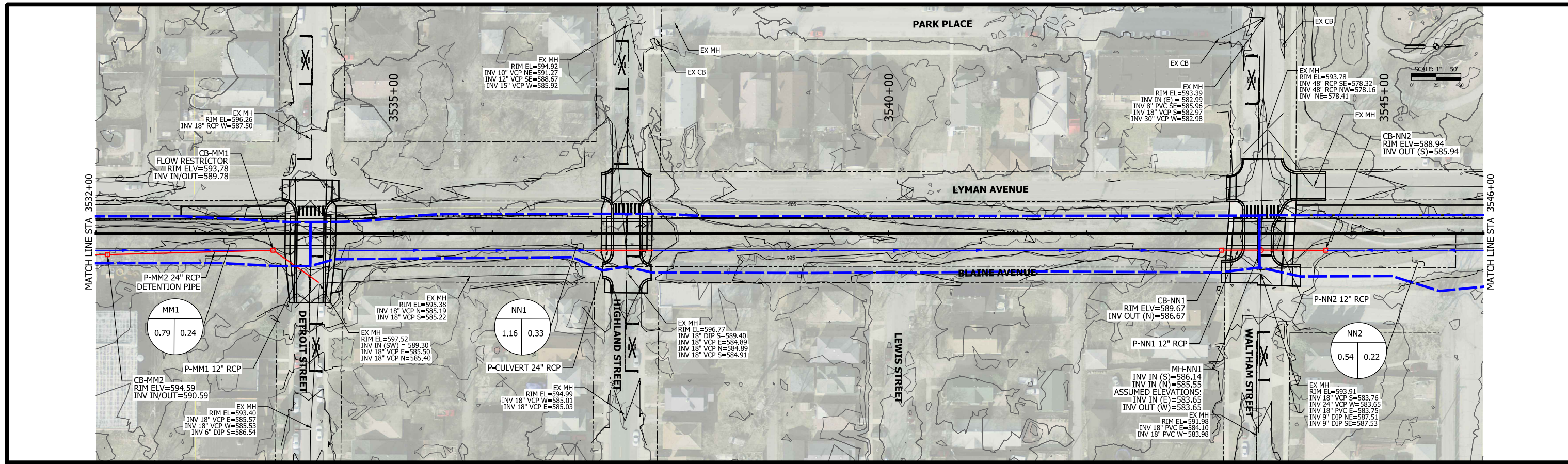
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CHECKED:	XXX
DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES DRNPNP-22 OF DRNPNP-31

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18 SINGLE TRACK

PLAN AND PROFILE DRAINAGE

FILENAME	WL_DR-Sht-22.dgn	SHEET	35 OF 64
SCALE	AS NOTED		



PLOT DATE: 7/20/2017 2:14:08 PM JKJELLM



ISSUE	DATE	DESCRIPTION



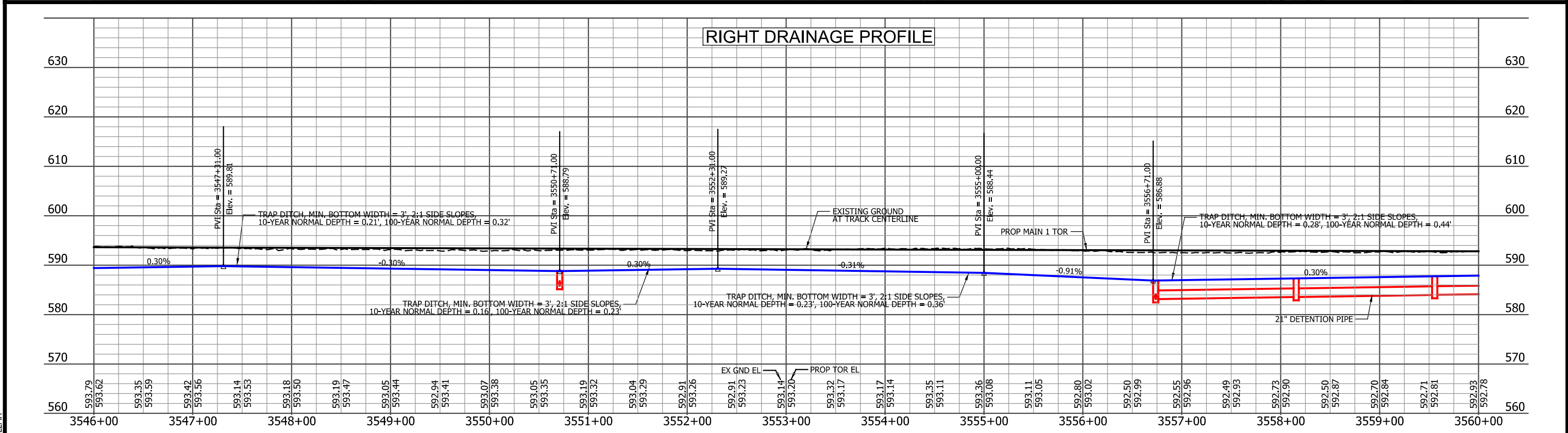
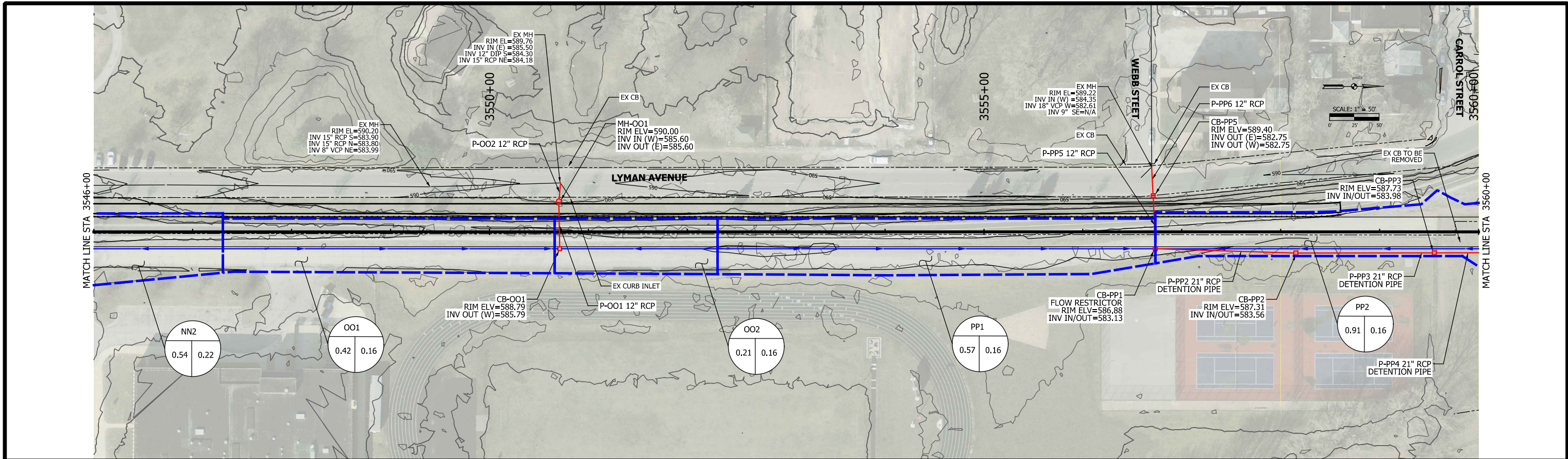
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 CHECKED: XXX
 DATE: 07/21/17

NOT FOR CONSTRUCTION SERIES DRPNP-23 OF DRPNP-31

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18 SINGLE TRACK

PLAN AND PROFILE DRAINAGE

FILENAME	WL_DR-Sht-23.dgn	SHEET	36 OF 64
SCALE	AS NOTED		



PLOT DATE: 7/20/2017 2:14:34 PM

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ISSUE	DATE	DESCRIPTION



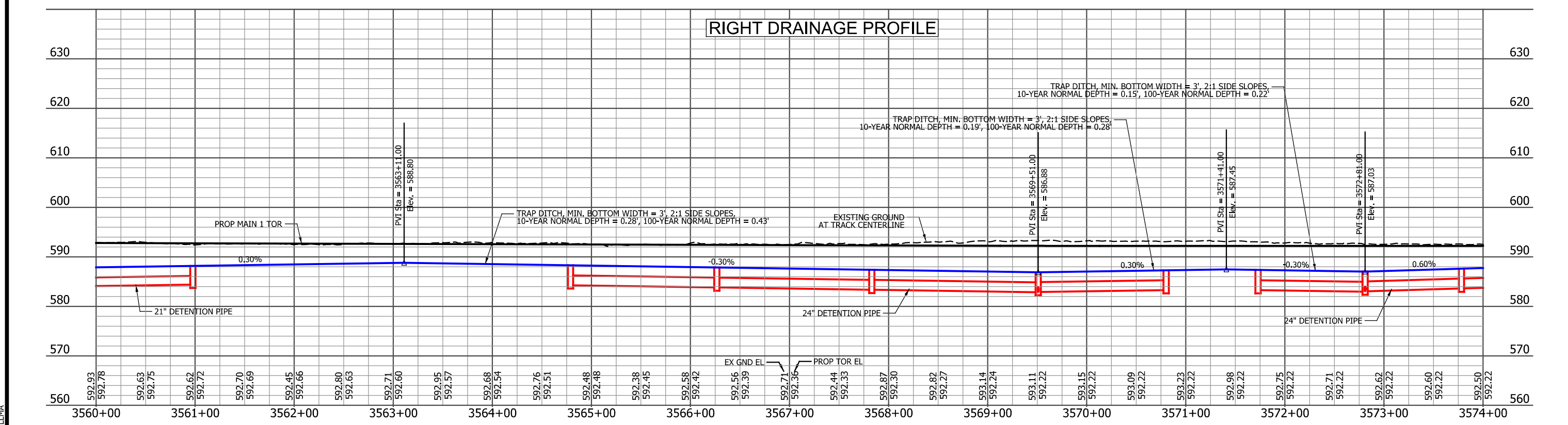
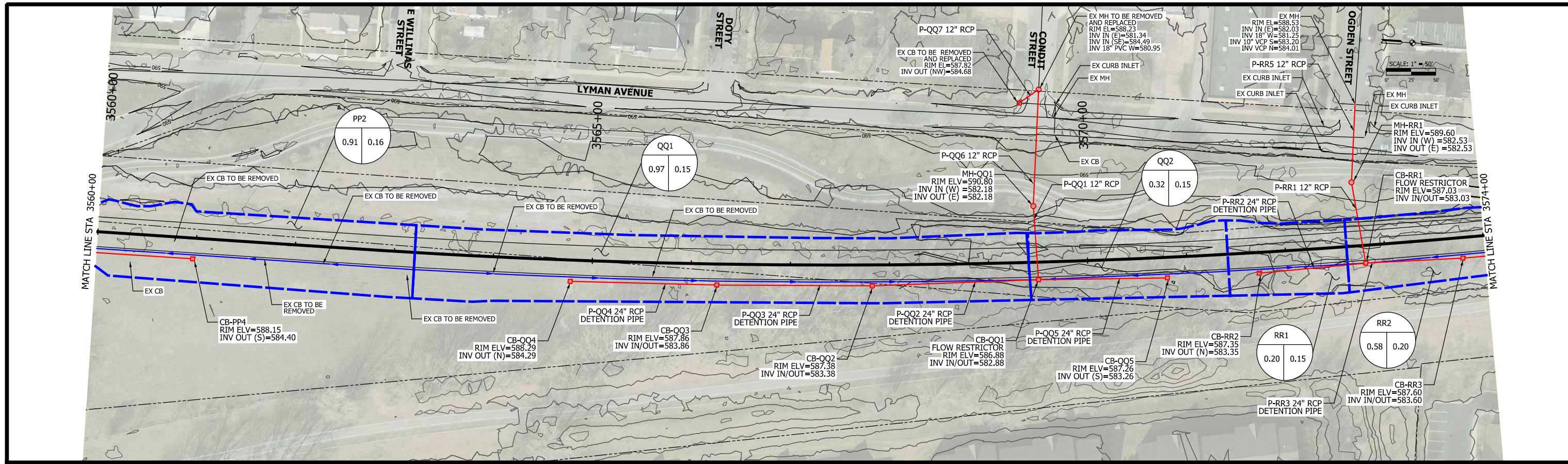
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DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES DRNPNP-24 OF DRNPNP-31

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
SINGLE TRACK

PLAN AND PROFILE DRAINAGE

FILENAME	WL_DR-Sht-24.dgn	SHEET	37 OF 64
SCALE	AS NOTED		



PLOT DATE: 7/20/2017 2:14:54 PM JKJELLM



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NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18 SINGLE TRACK

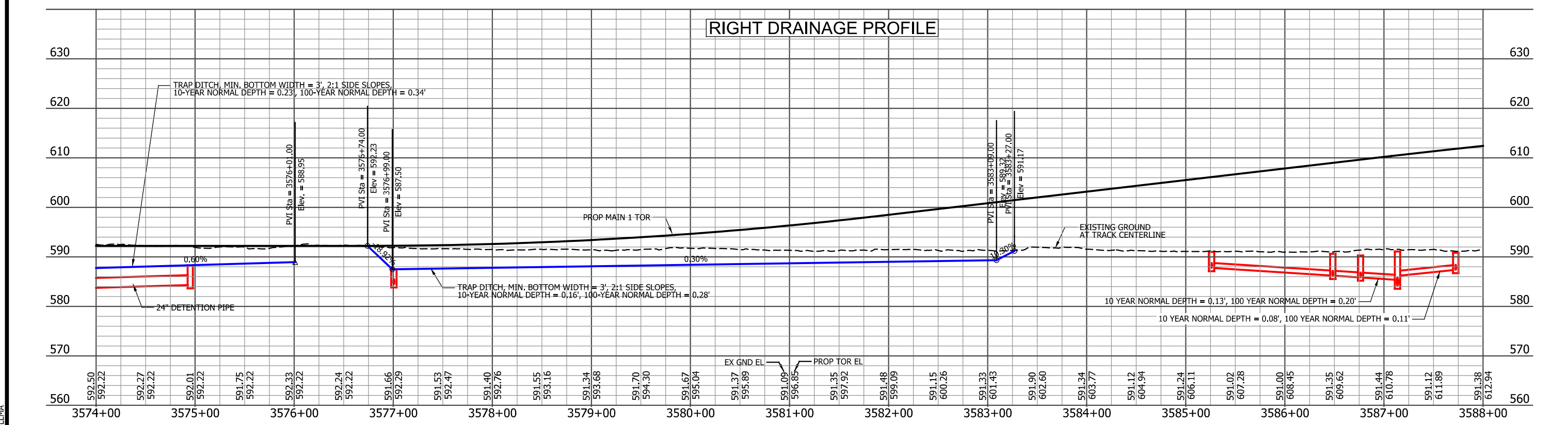
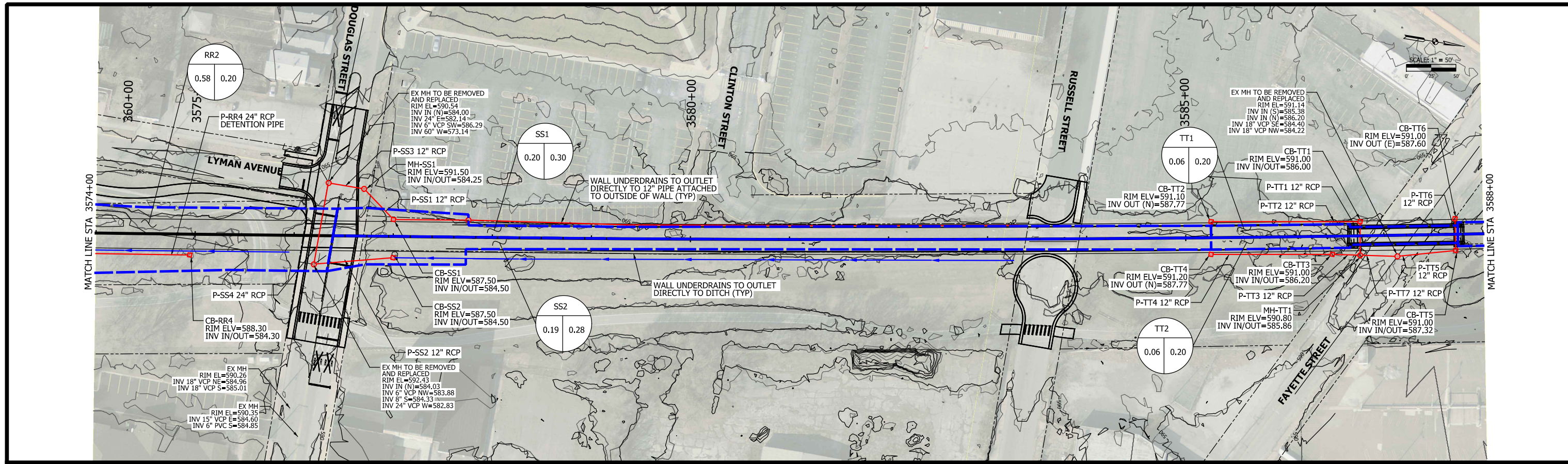
PLAN AND PROFILE DRAINAGE

FILENAME	WL_DR-Sht-25.dgn	SHEET	38 OF 64
SCALE	AS NOTED		

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SERIES DRNPNP-26 OF DRNPNP-31
 NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
 SINGLE TRACK

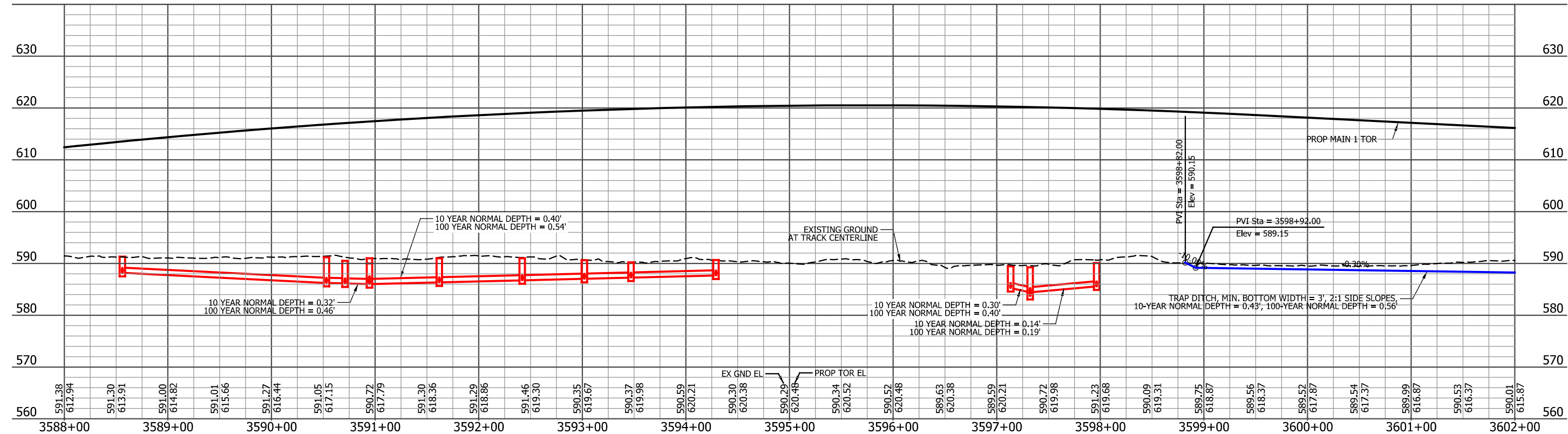
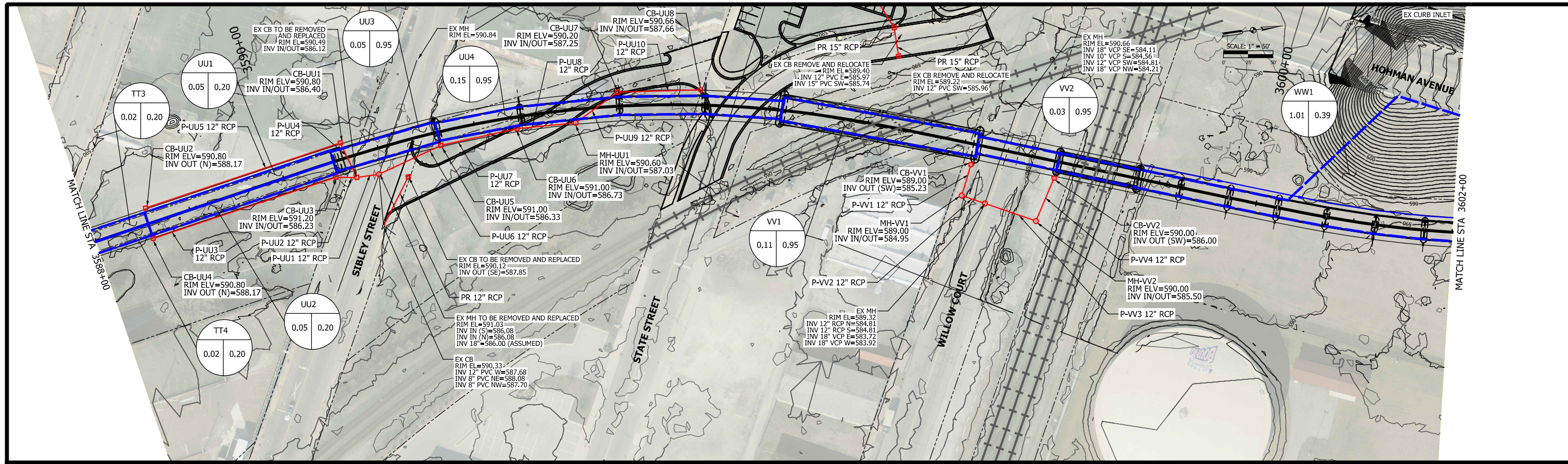
PLAN AND PROFILE DRAINAGE

FILENAME	WL_DR-Sht-26.dgn	SHEET	39 OF 64
SCALE	AS NOTED		

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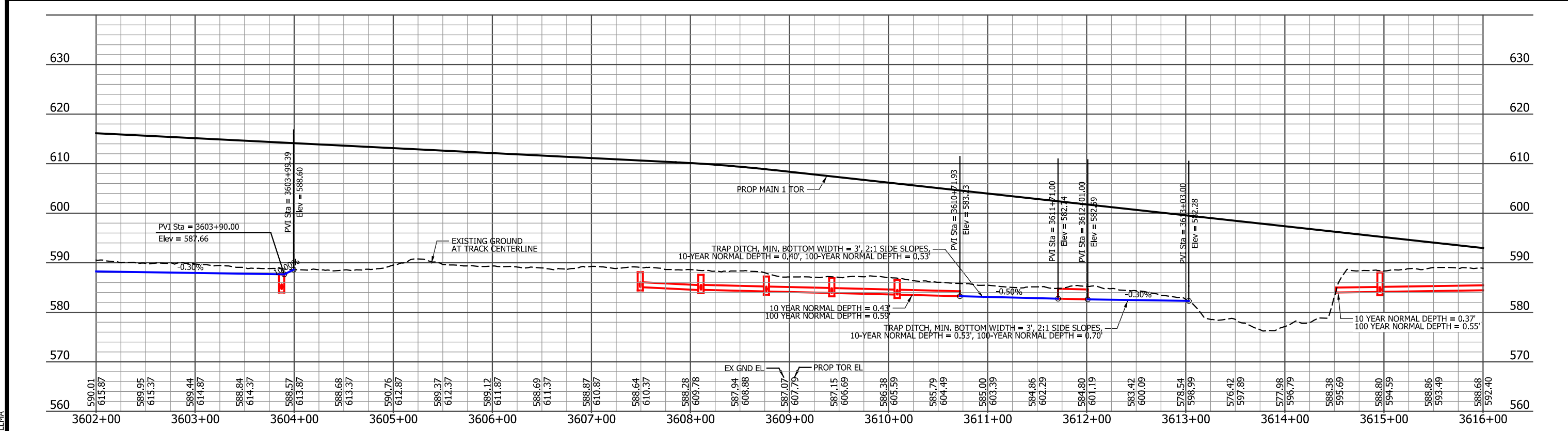
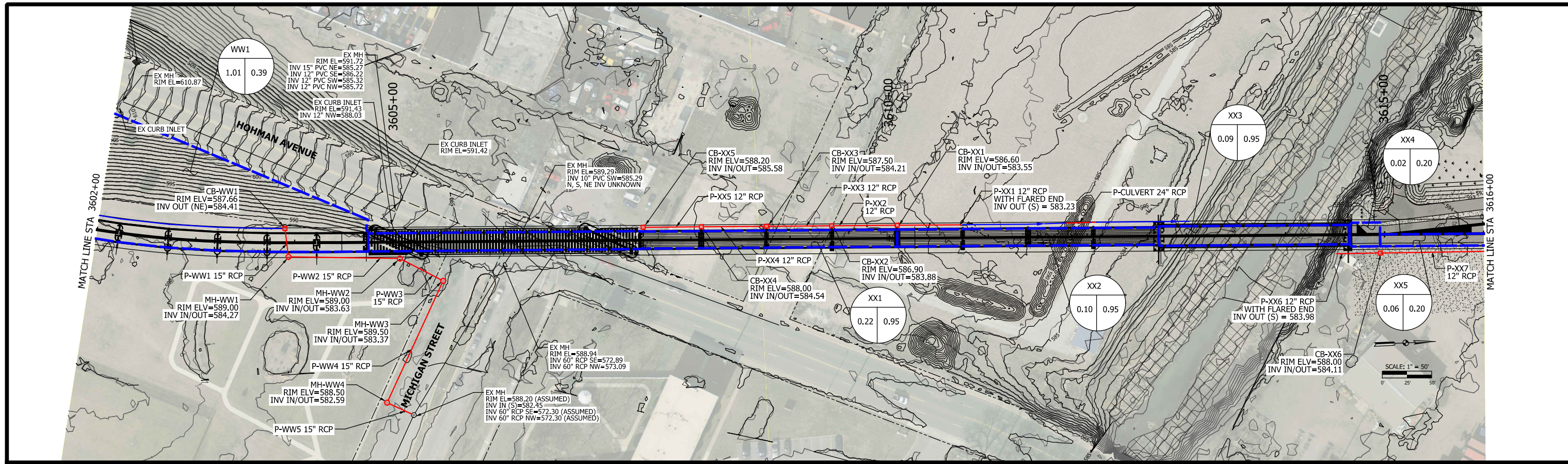
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CHECKED:	XXX
DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES DRNPNP-27 OF DRNPNP-31

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18 SINGLE TRACK	
PLAN AND PROFILE DRAINAGE	
FILENAME	WL_DR-Sht-27.dgn
SCALE	AS NOTED
SHEET	40 OF 64



PLOT DATE: 7/20/2017 2:16:08 PM JKJELLM



ISSUE	DATE	DESCRIPTION



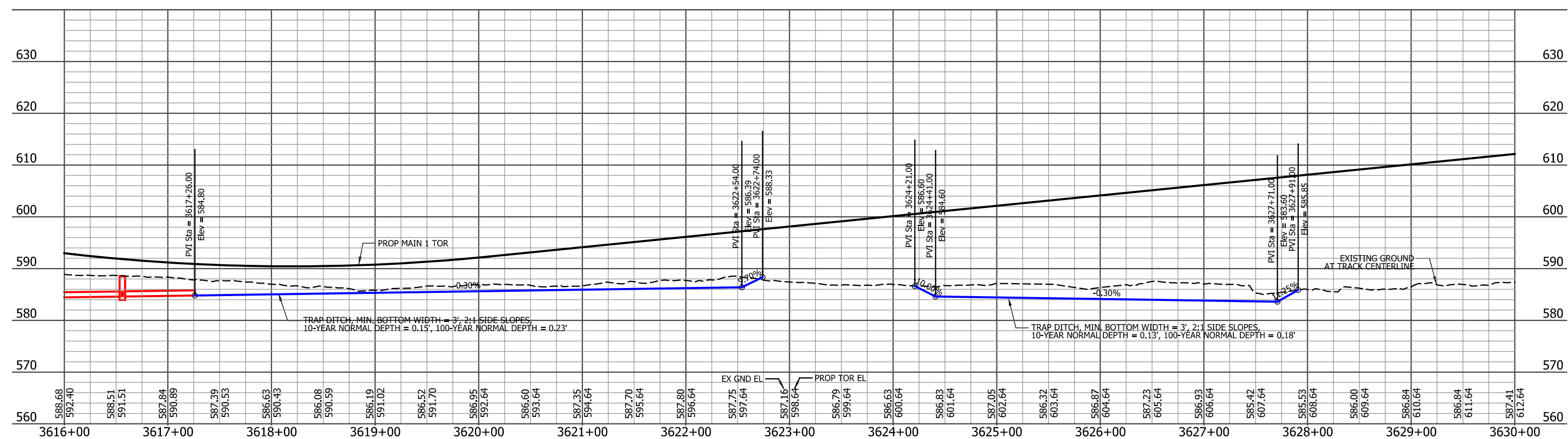
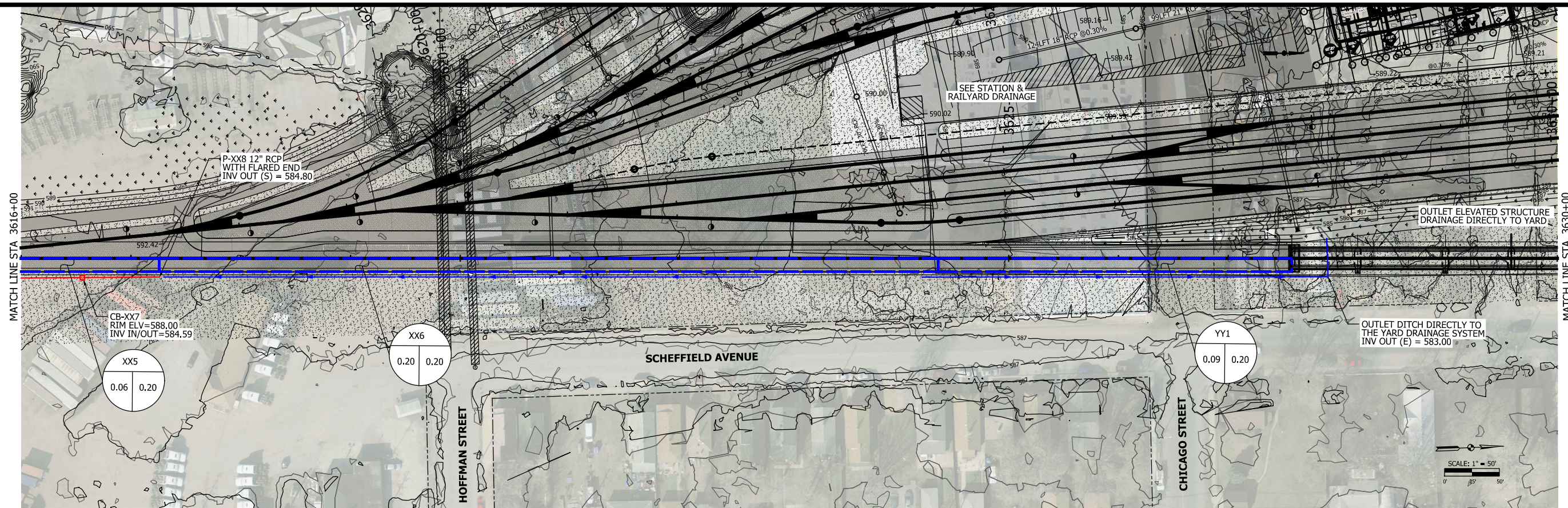
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CHECKED:	XXX
DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES DRNPNP-28 OF DRNPNP-31

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18 SINGLE TRACK

PLAN AND PROFILE DRAINAGE

FILENAME	WL_DR-Sht-28.dgn	SHEET	41 OF 64
SCALE	AS NOTED		



PLOT DATE: 7/20/2017 2:16:32 PM JKJELLM



ISSUE	DATE	DESCRIPTION



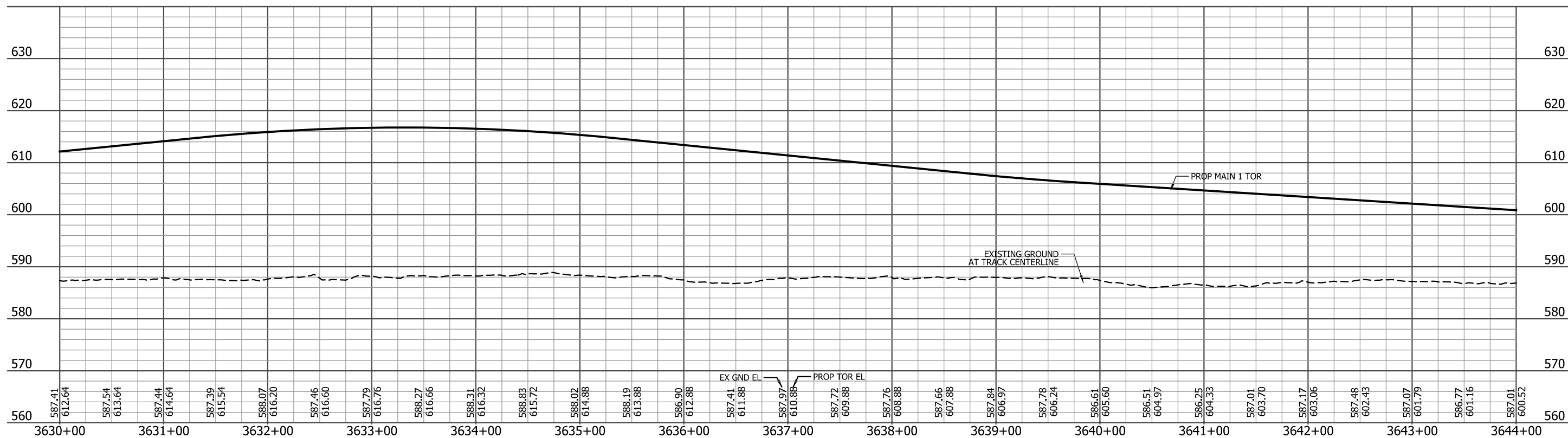
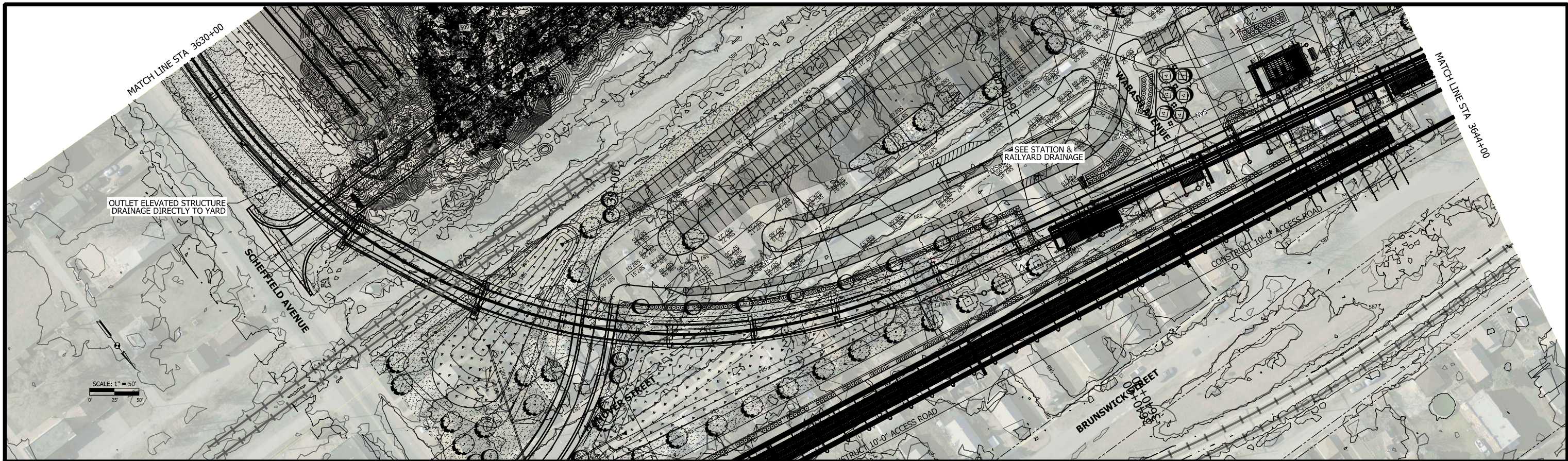
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CHECKED:	XXX
DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES DRNPNP-29 OF DRNPNP-31

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
SINGLE TRACK

PLAN AND PROFILE DRAINAGE

FILENAME	WL_DR-Sht-29.dgn	SHEET	42 OF 64
SCALE	AS NOTED		



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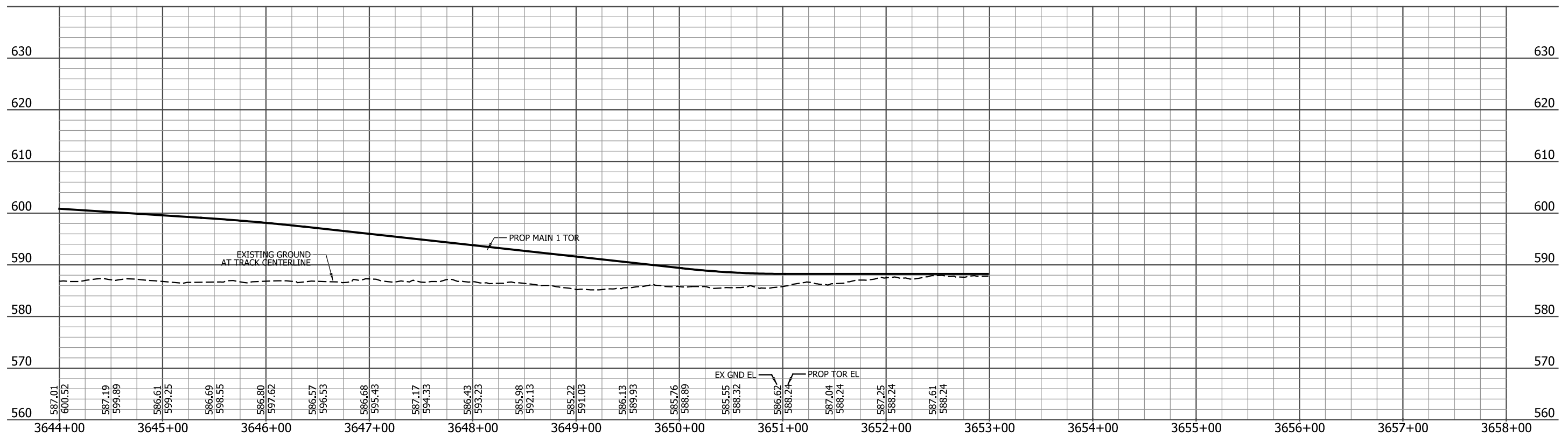
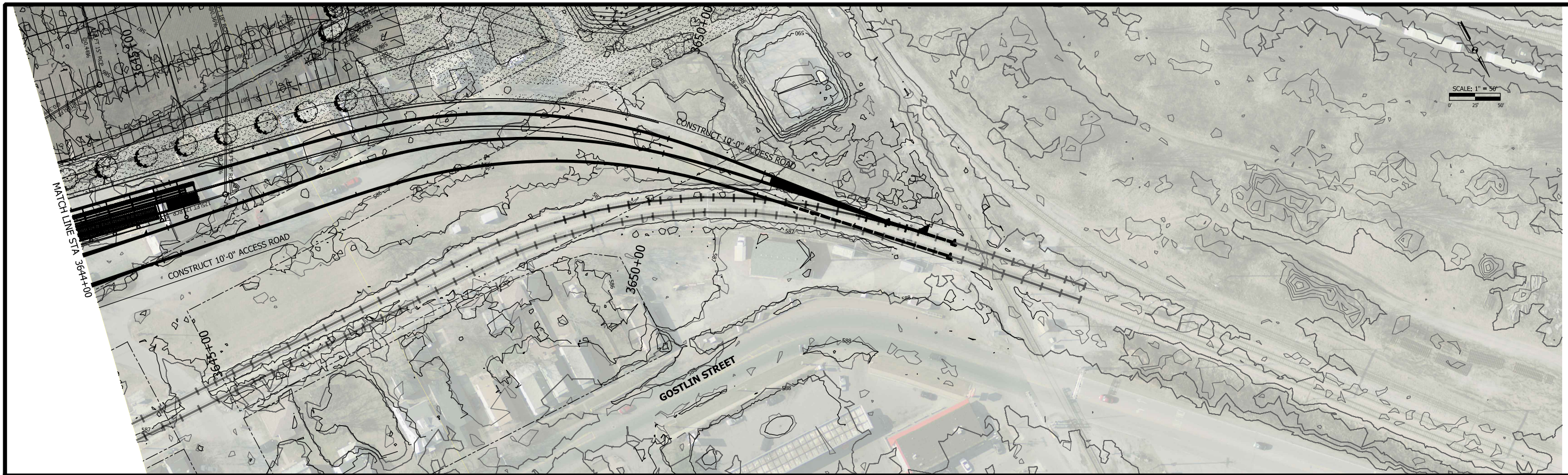
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CHECKED:	XXX
DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES DRNPNP-30 OF DRNPNP-31

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
SINGLE TRACK

PLAN AND PROFILE DRAINAGE

FILENAME	WL_DR-Sht-30.dgn	SHEET	43 OF 64
SCALE	AS NOTED		



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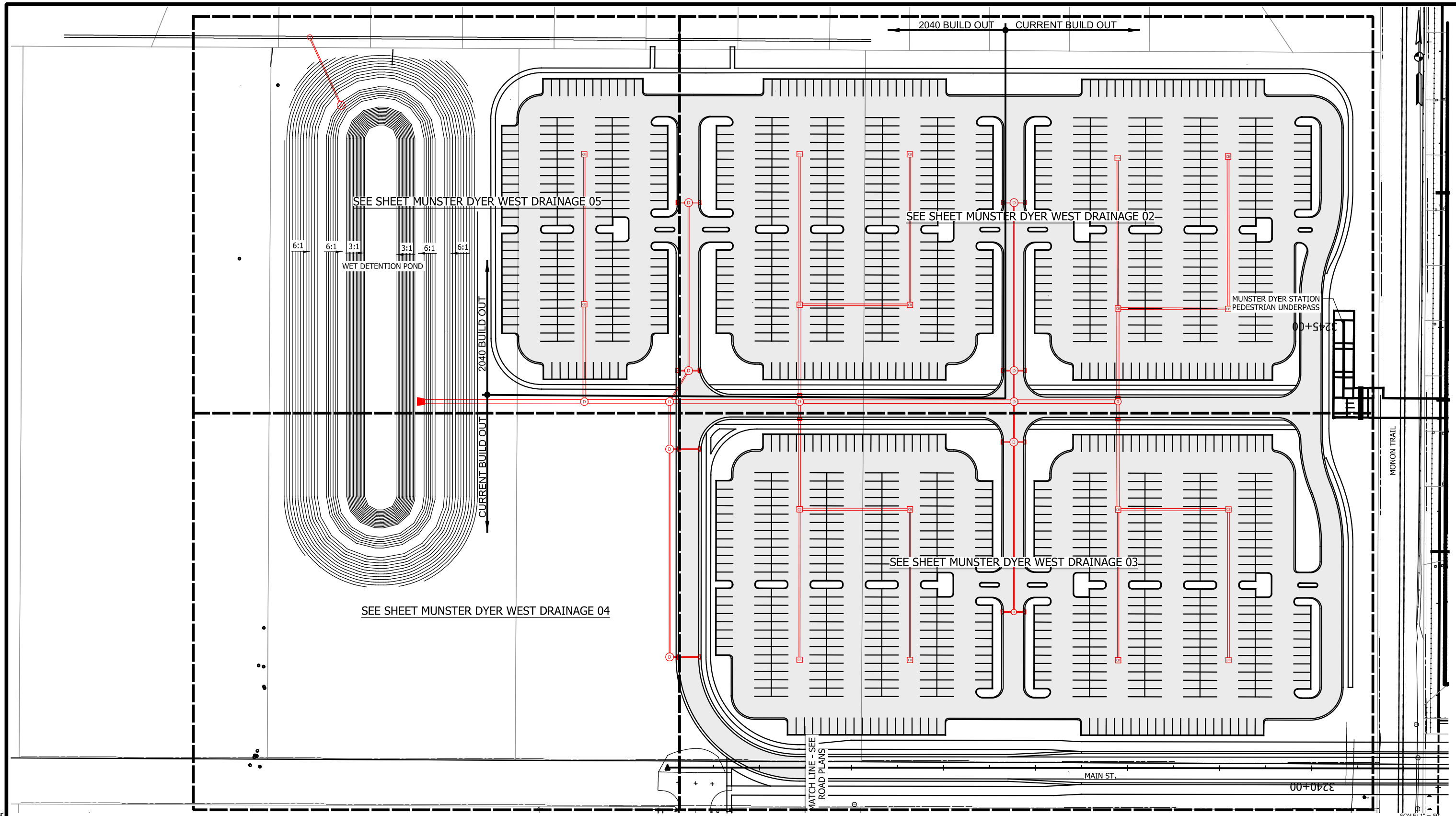
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DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES DRNPNP-31 OF DRNPNP-31

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
SINGLE TRACK

**PLAN AND PROFILE
DRAINAGE**

FILENAME	WL_DR-Sht-31.dgn	SHEET	44 OF 64
SCALE	AS NOTED		



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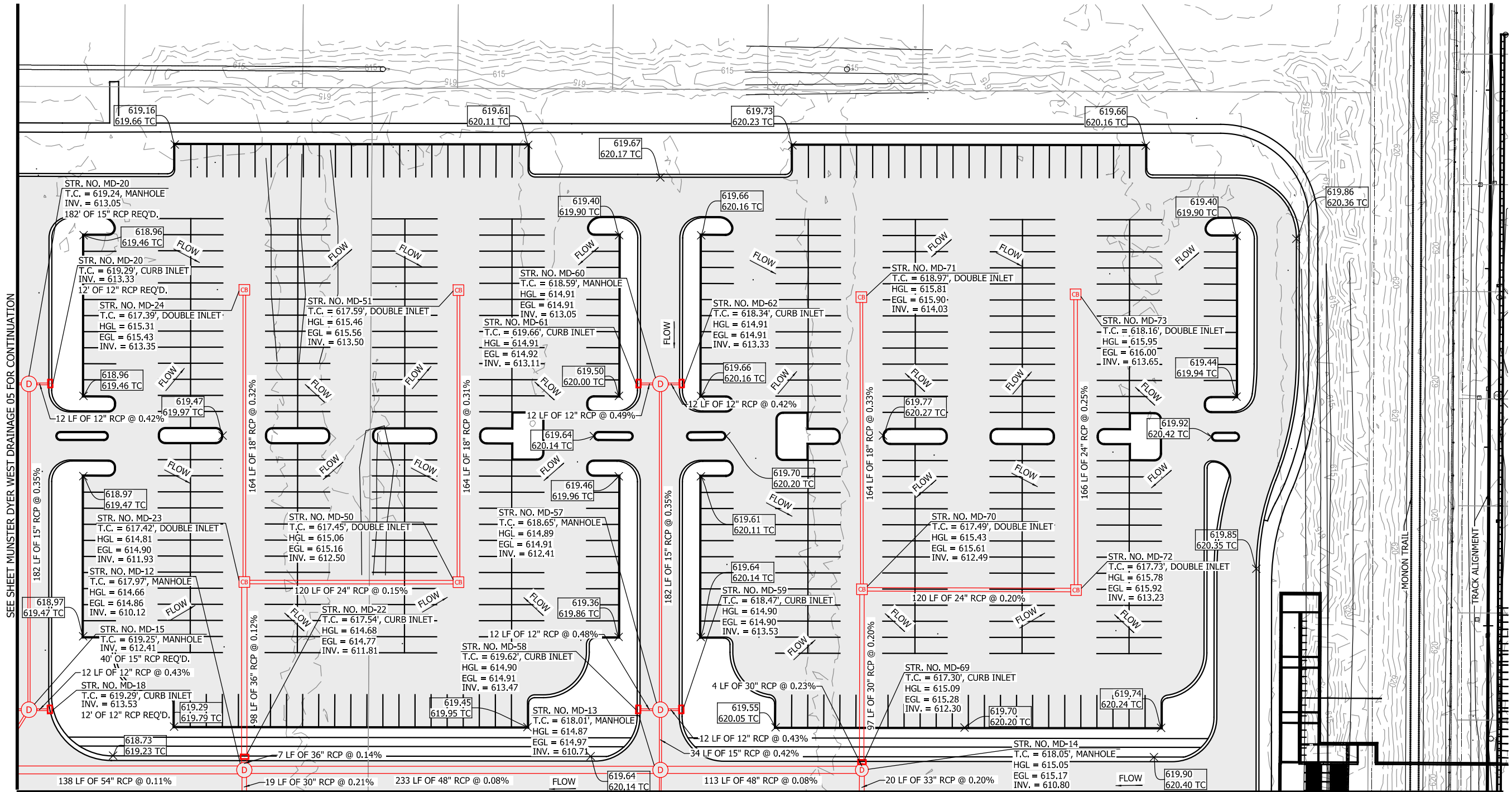
WEST LAKE CORRIDOR
 DYER TO HAMMOND, INDIANA

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NOT FOR CONSTRUCTION SERIES DRNPLN-1 OF DRNPLN-8

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18 SINGLE TRACK		
MUNSTER DYER PARKING WEST DRAINAGE		
FILENAME	SHT_DR_FA_MD PARK_PL_01.dgn	SHEET
SCALE	AS NOTED	45 OF 64

SCALE: 1" = 50'



SEE SHEET MUNSTER DYER WEST DRAINAGE 05 FOR CONTINUATION

SEE SHEET MUNSTER DYER WEST DRAINAGE 03 FOR CONTINUATION

SCALE: 1" = 30'

PLOT DATE: 7/19/2017 10:58:08 PM JKJELIMA



ISSUE	DATE	DESCRIPTION



DESIGNED:	
DRAWN:	
CHECKED:	
DATE:	07/21/17

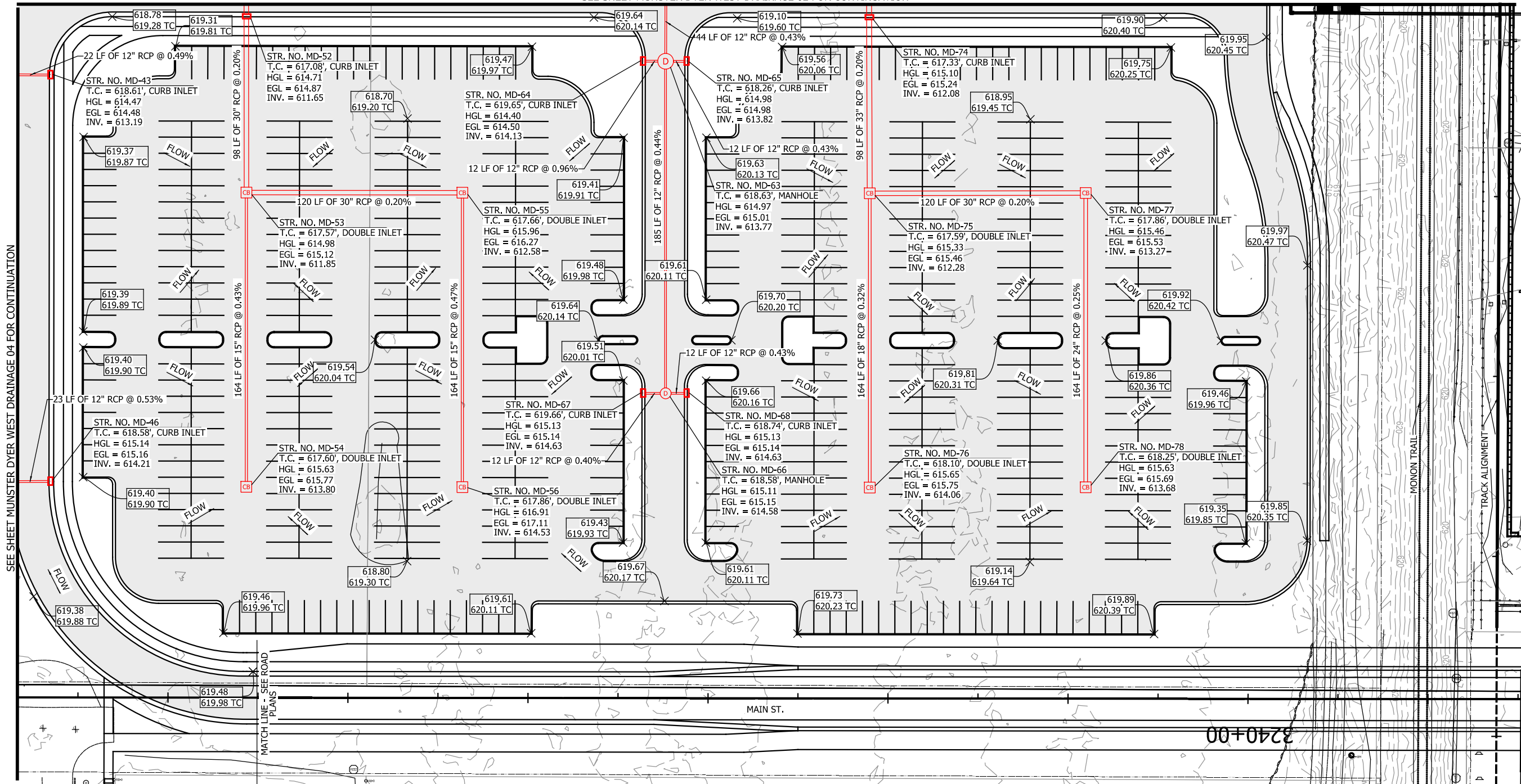
NOT FOR CONSTRUCTION SERIES DRNPLN-2 OF DRNPLN-8

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
SINGLE TRACK

MUNSTER DYER PARKING WEST DRAINAGE

FILENAME	SHT_DR_FA_MD PARK_PL_02.dgn	SHEET	46 OF 64
SCALE	AS NOTED		

SEE SHEET MUNSTER DYER WEST DRAINAGE 02 FOR CONTINUATION



SCALE: 1" = 30'

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DATE:	07/21/17

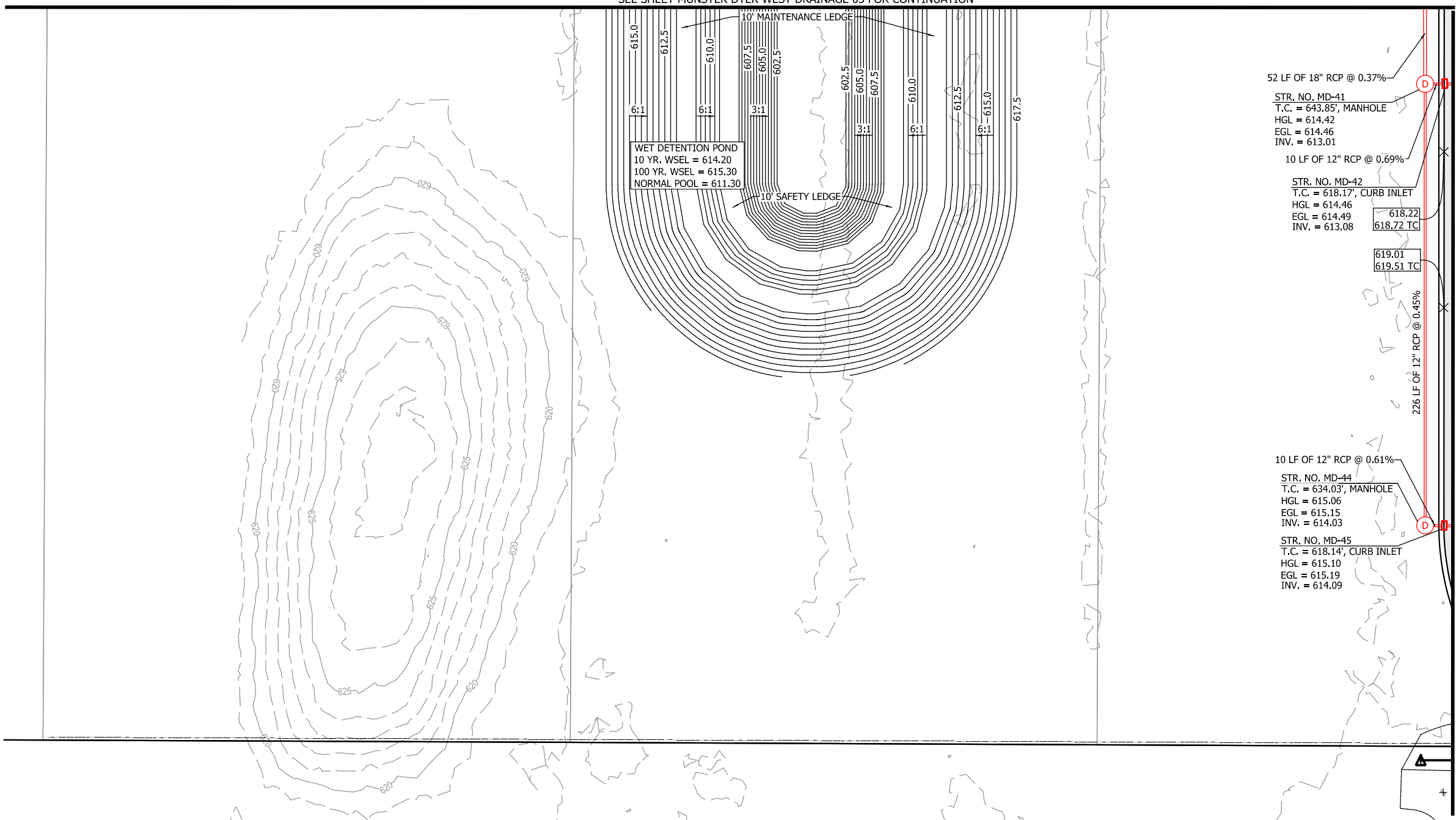
NOT FOR CONSTRUCTION SERIES DRNPLN-3 OF DRNPLN-8

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
SINGLE TRACK

MUNSTER DYER PARKING WEST
DRAINAGE

FILENAME	SHT_DR_FA_MD PARK_PL_03.dgn	SHEET	47 OF 64
SCALE	AS NOTED		

SEE SHEET MUNSTER DYER WEST DRAINAGE 05 FOR CONTINUATION



52 LF OF 18" RCP @ 0.37%
 STR. NO. MD-41
 T.C. = 643.85', MANHOLE
 HGL = 614.42
 EGL = 614.46
 INV. = 613.01

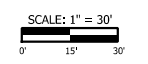
10 LF OF 12" RCP @ 0.69%
 STR. NO. MD-42
 T.C. = 618.17', CURB INLET
 HGL = 614.46
 EGL = 614.49
 INV. = 613.08

226 LF OF 12" RCP @ 0.45%
 618.22
 618.72 TC

10 LF OF 12" RCP @ 0.61%
 STR. NO. MD-44
 T.C. = 634.03', MANHOLE
 HGL = 615.06
 EGL = 615.15
 INV. = 614.03

STR. NO. MD-45
 T.C. = 618.14', CURB INLET
 HGL = 615.10
 EGL = 615.19
 INV. = 614.09

SEE SHEET MUNSTER DYER WEST DRAINAGE 03 FOR CONTINUATION



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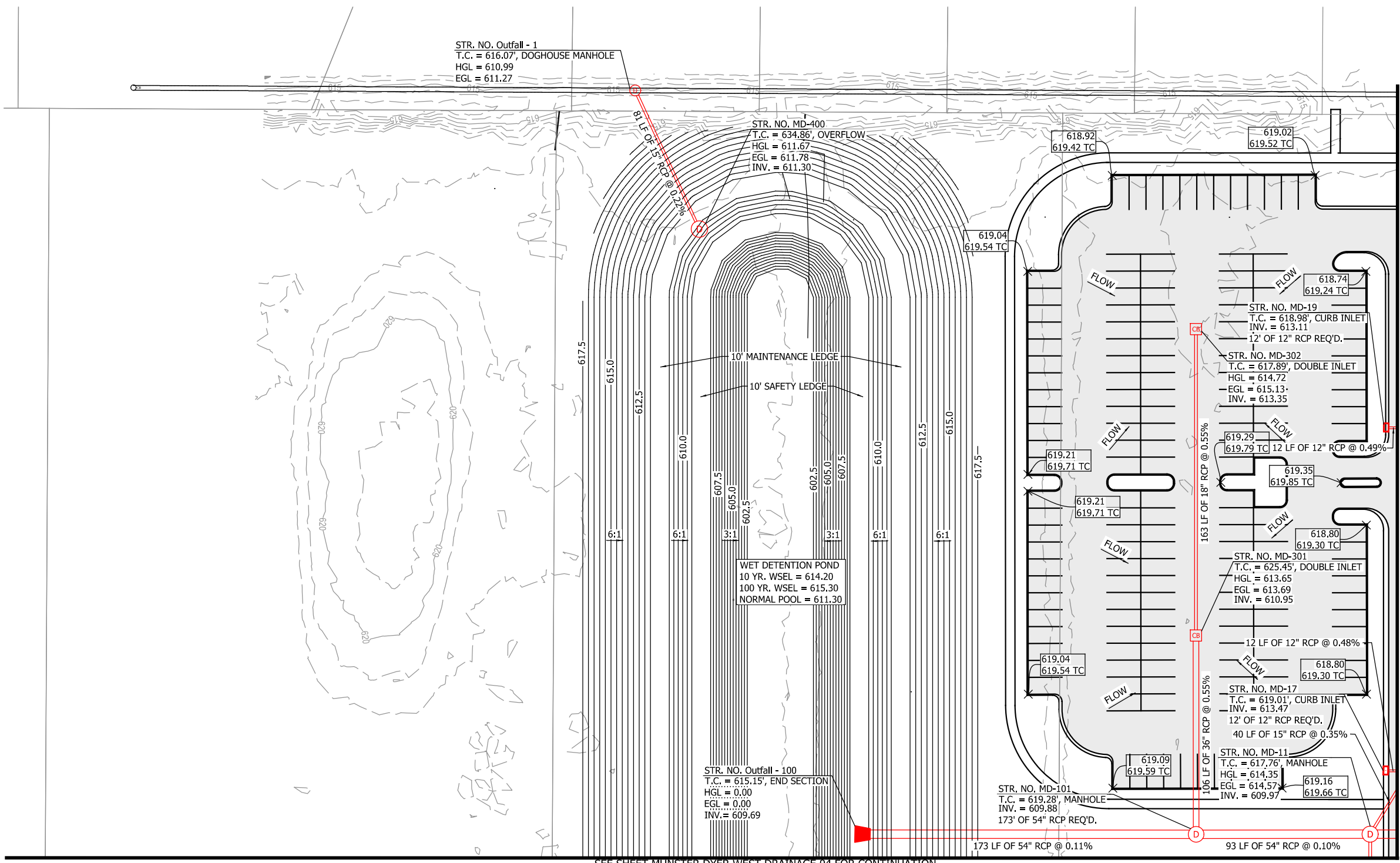
WEST LAKE
 CORRIDOR
 DYER TO HAMMOND, INDIANA

DESIGNED:	
DRAWN:	
CHECKED:	
DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES DRNPLN-4 OF DRNPLN-8
 NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
 SINGLE TRACK

MUNSTER DYER PARKING WEST DRAINAGE

FILENAME	SHT_DR_FA_MD PARK_PL_04.dgn	SHEET	48 OF 64
SCALE	AS NOTED		



SEE SHEET MUNSTER DYER WEST DRAINAGE 04 FOR CONTINUATION

SEE SHEET MUNSTER DYER WEST DRAINAGE 02 FOR CONTINUATION

SCALE: 1" = 30'

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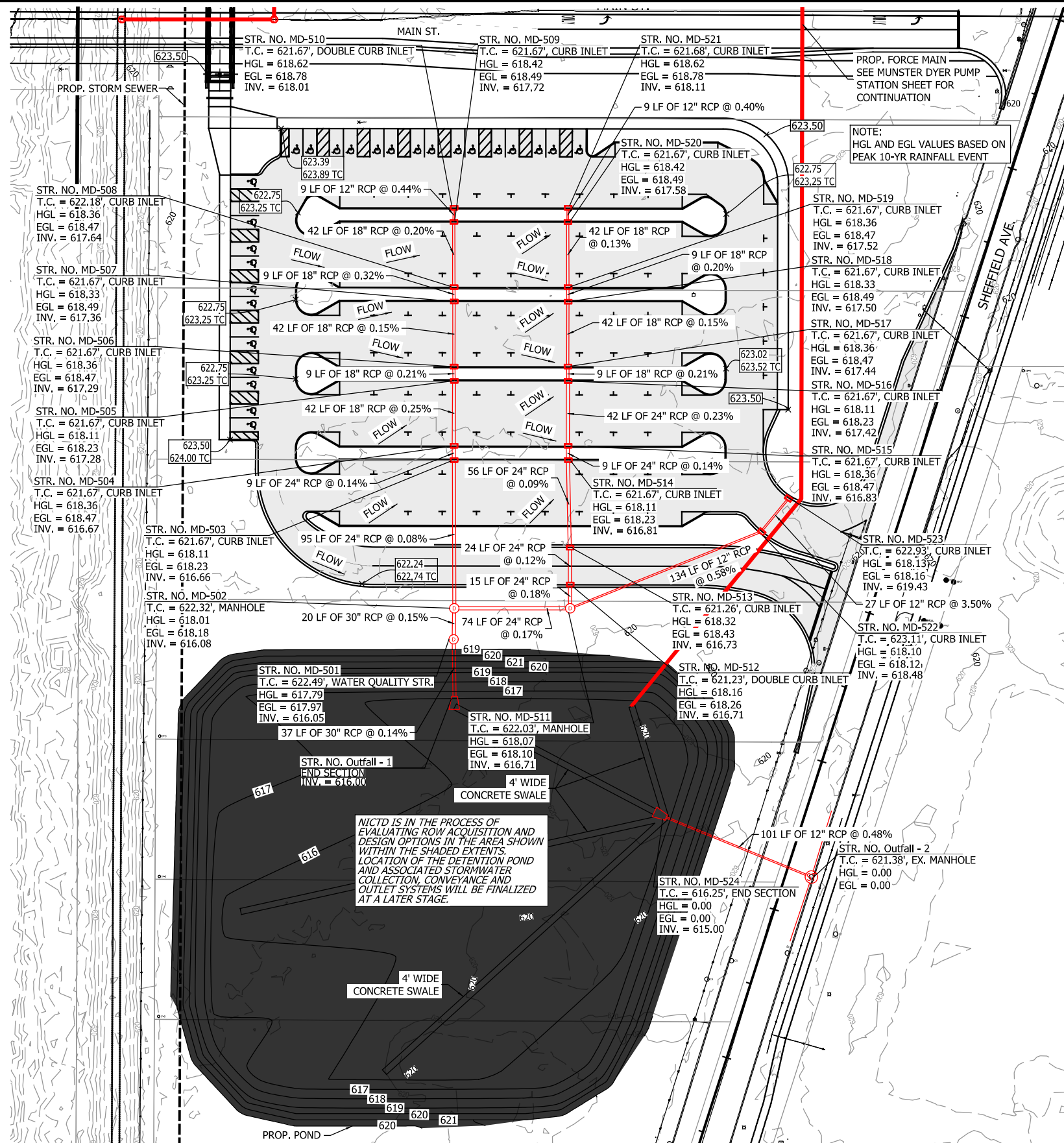
WEST LAKE
 CORRIDOR
 DYER TO HAMMOND, INDIANA

DESIGNED: _____
 DRAWN: _____
 CHECKED: _____
 DATE: 07/21/17

NOT FOR CONSTRUCTION SERIES DRNPLN-5 OF DRNPLN-8
 NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
 SINGLE TRACK

MUNSTER DYER PARKING WEST DRAINAGE

FILENAME: SHT_DR_FA_MD PARK_PL_05.dgn SHEET: 49 OF 64
 SCALE: AS NOTED



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DATE:	07/21/17

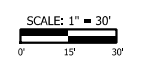
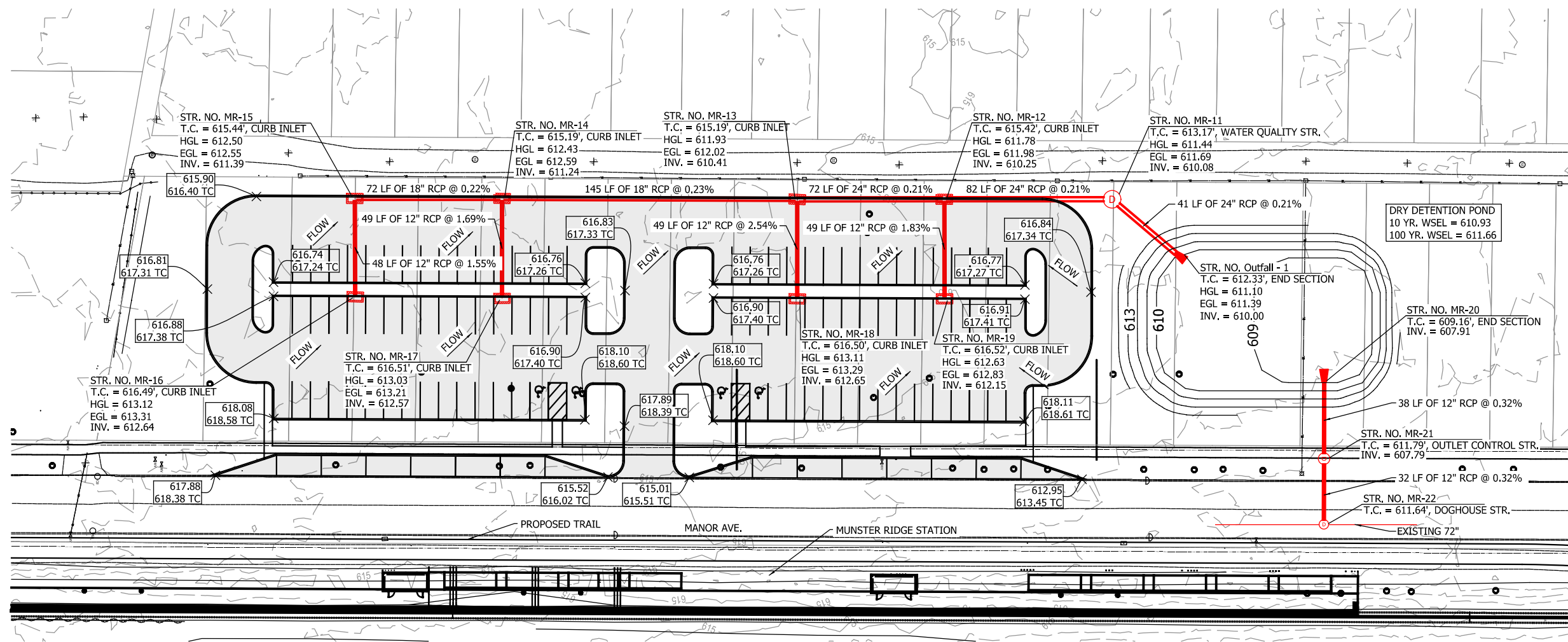
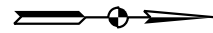
NOT FOR CONSTRUCTION SERIES DRNPLN-6 OF DRNPLN-8

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
SINGLE TRACK

**MUNSTER DYER PARKING SOUTHEAST
DRAINAGE**

FILENAME	SHT_DR_FA_MD PARK_PL_06.dgn	SHEET
SCALE	AS NOTED	50 OF 64

SCALE: 1" = 40'



PLOT DATE: 7/19/2017 11:00:17 PM JKJELIMA



ISSUE	DATE	DESCRIPTION



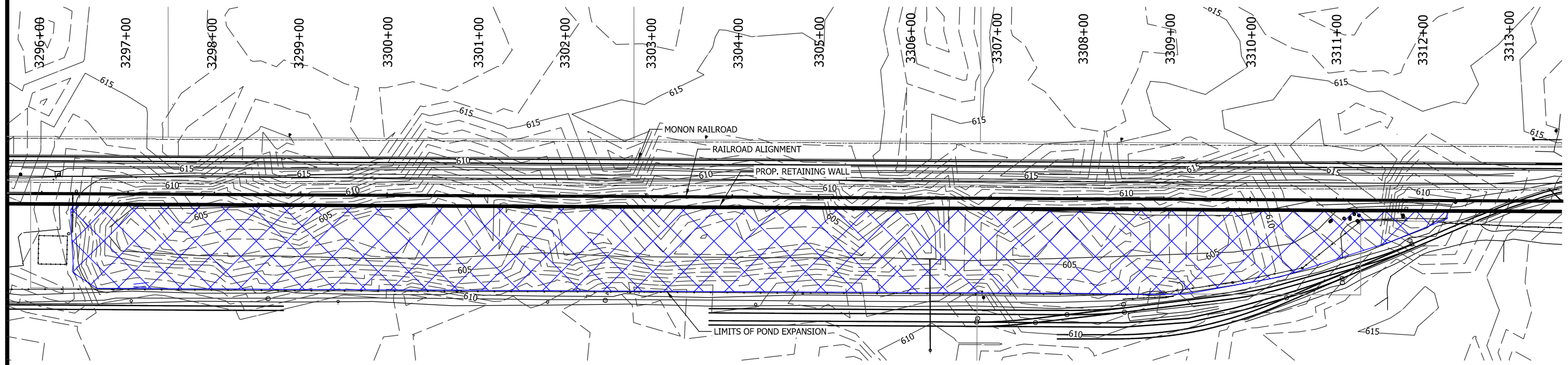
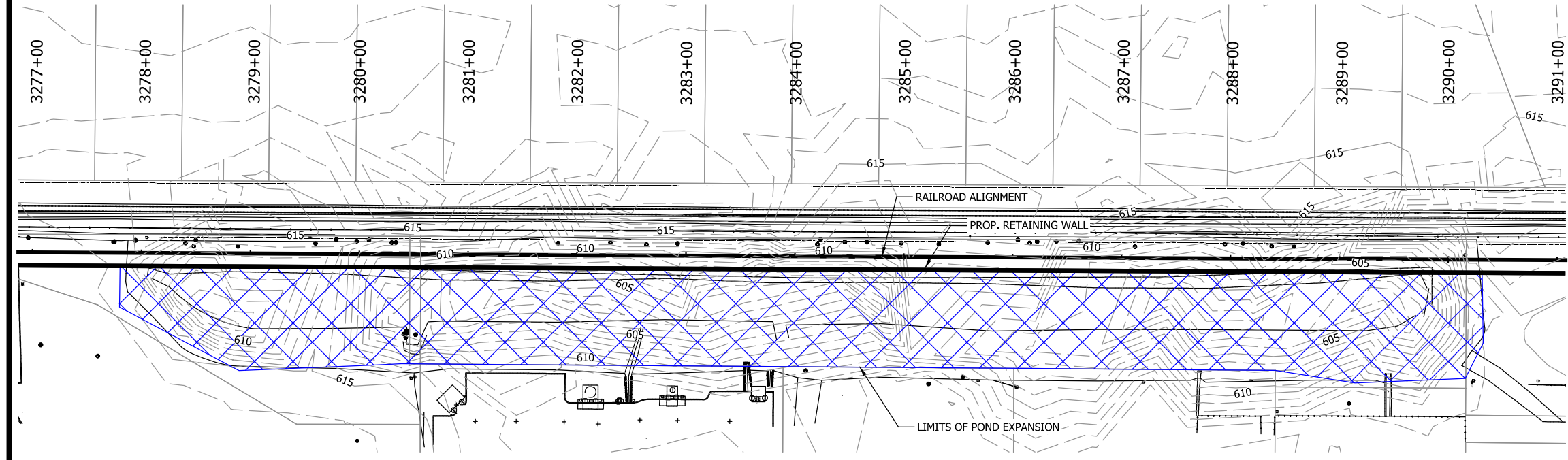
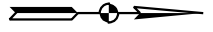
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DATE:	07/21/17

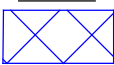
NOT FOR CONSTRUCTION SERIES DRNPLN-7 OF DRNPLN-8

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
SINGLE TRACK

MUNSTER RIDGE PARKING DRAINAGE

FILENAME	SHT_DR_MR_PARK_PL_01.dgn	SHEET	51 OF 64
SCALE	AS NOTED		



LEGEND:
 POND EXPANSION LIMITS

SCALE: 1" = 60'
 0' 30' 60'

PLOT DATE: 7/19/2017 11:00:55 PM JKJELIMA



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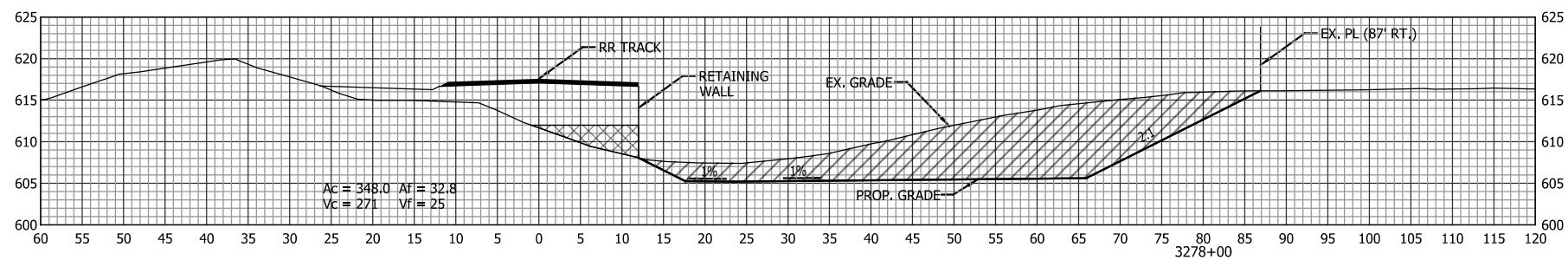
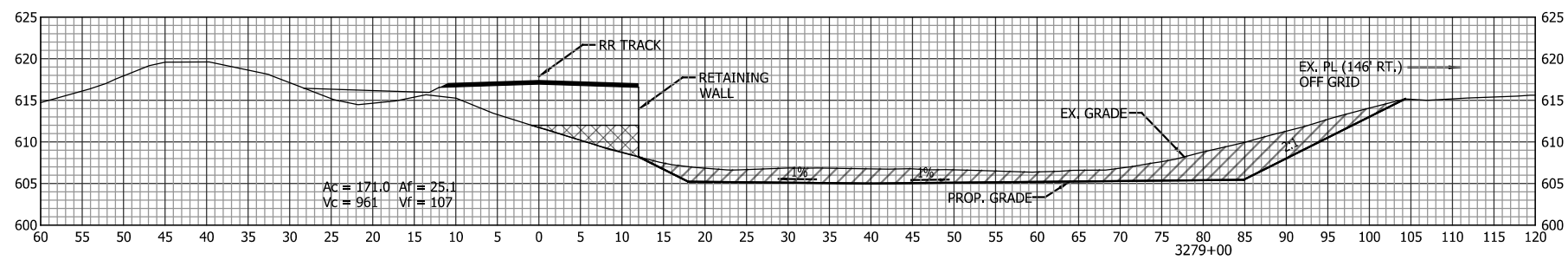
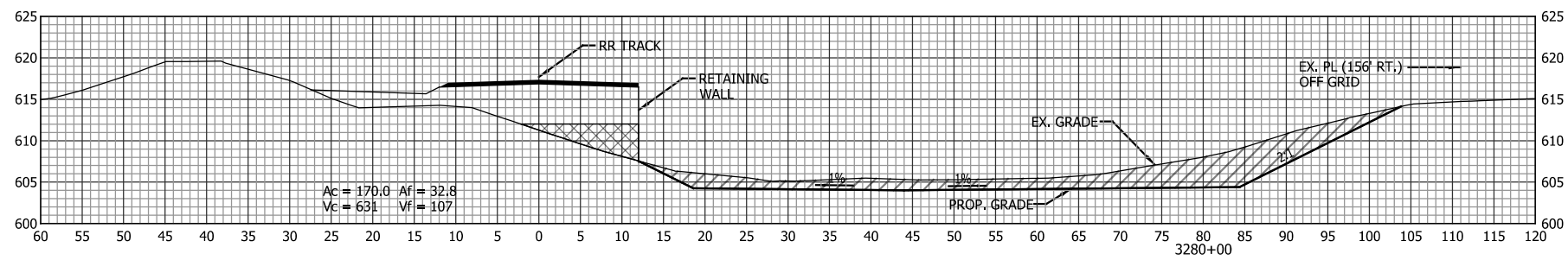
DESIGNED:	
DRAWN:	
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DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES DRNPLN-8 OF DRNPLN-8

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
 SINGLE TRACK

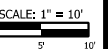
**POND MODIFICATIONS
 DRAINAGE**

FILENAME	SHT_DR_POND_EXT_PL_01.dgn	SHEET
SCALE	AS NOTED	52 OF 64



LEGEND:

- CUT AREA
- FILL AREA



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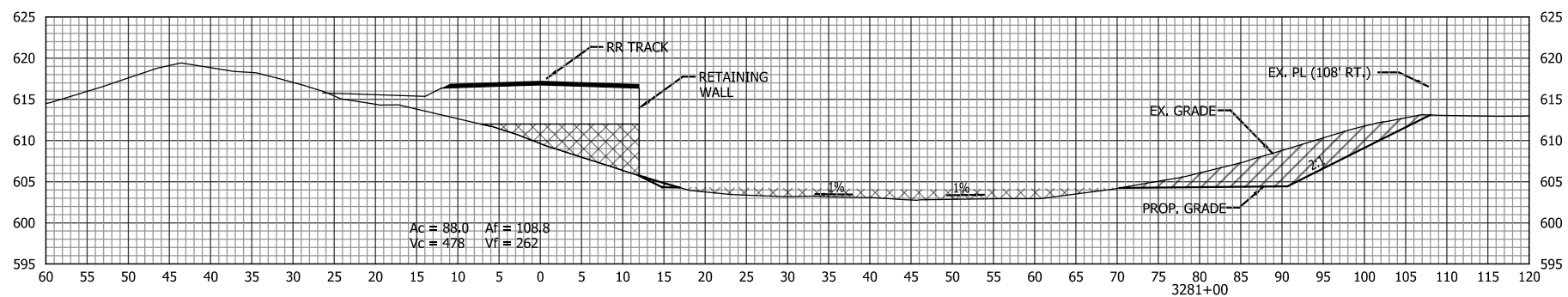
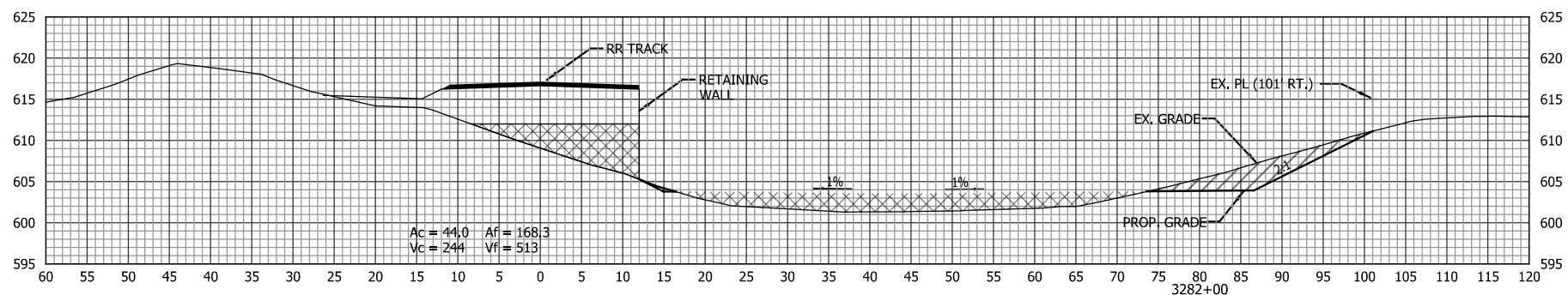
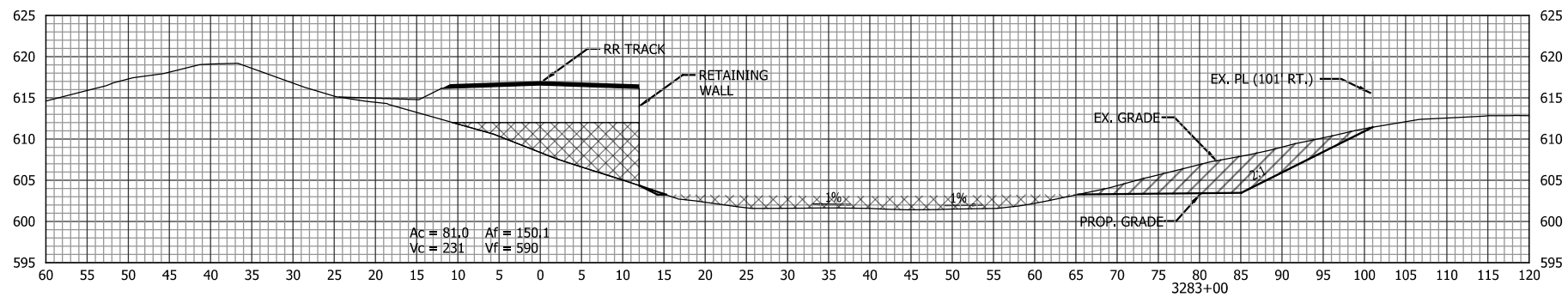
DESIGNED:	
DRAWN:	
CHECKED:	
DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES DRNXS-1 OF DRNXS-12

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
SINGLE TRACK

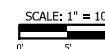
**POND MODIFICATION CROSS SECTIONS
DRAINAGE**

FILENAME	SHT_WL_DR_MD_XS_01.dgn	SHEET
SCALE	AS NOTED	53 OF 64



LEGEND:

- CUT AREA
- FILL AREA



PLOT DATE: 7/19/2017 11:01:28 PM JKJELLMMA



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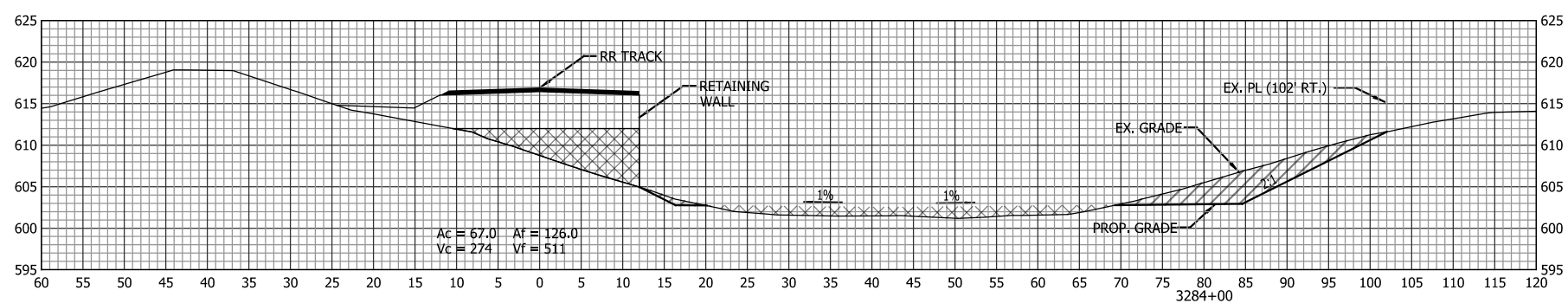
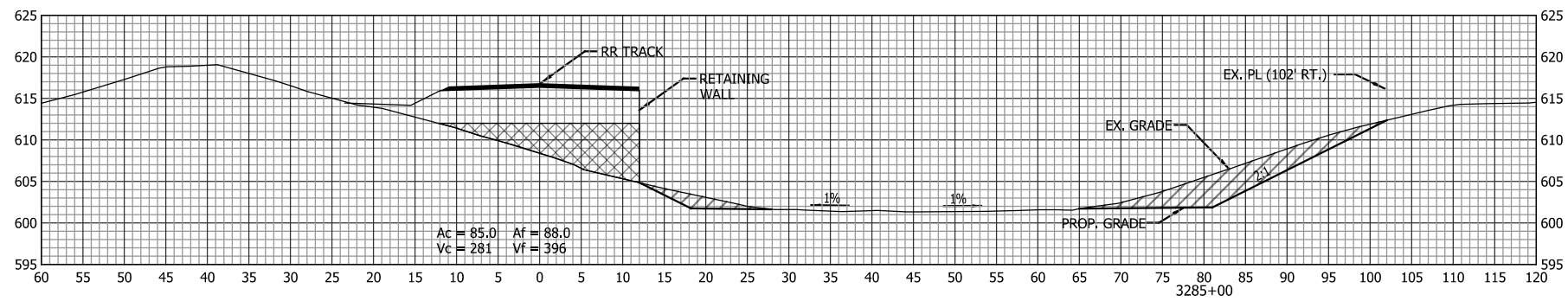
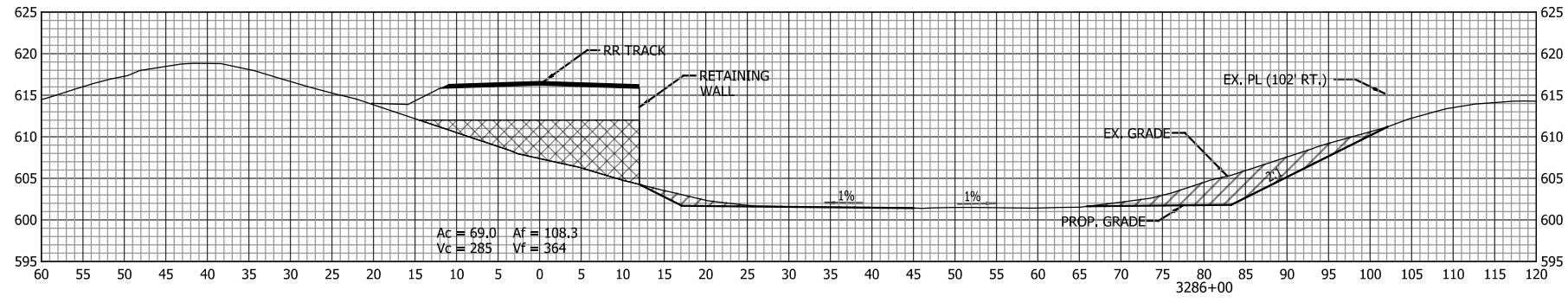
DESIGNED:	
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DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES DRNXS-2 OF DRNXS-12

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
SINGLE TRACK

**POND MODIFICATION CROSS SECTIONS
DRAINAGE**

FILENAME	SHT_WL_DR_MD_XS_02.dgn	SHEET
SCALE	AS NOTED	54 OF 64



LEGEND:
 CUT AREA
 FILL AREA

SCALE: 1" = 10'

PLOT DATE: 7/19/2017 11:01:37 PM JKJELIMA



ISSUE	DATE	DESCRIPTION



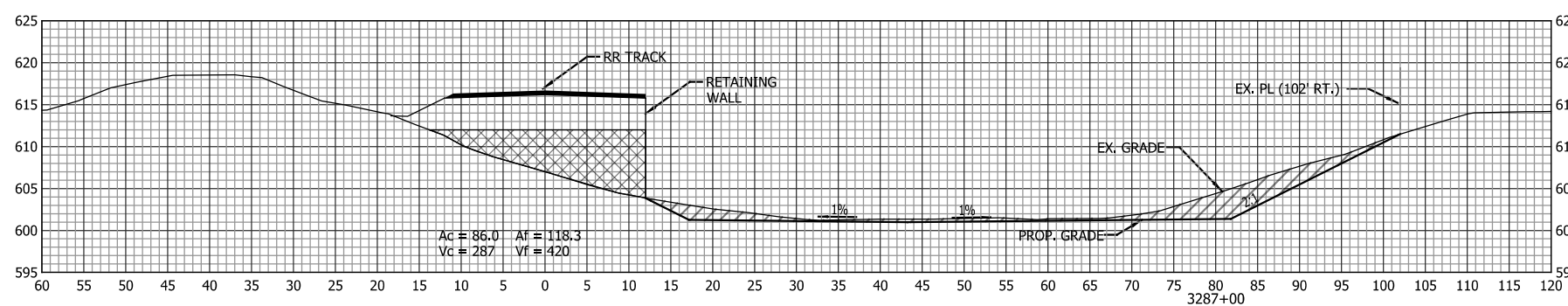
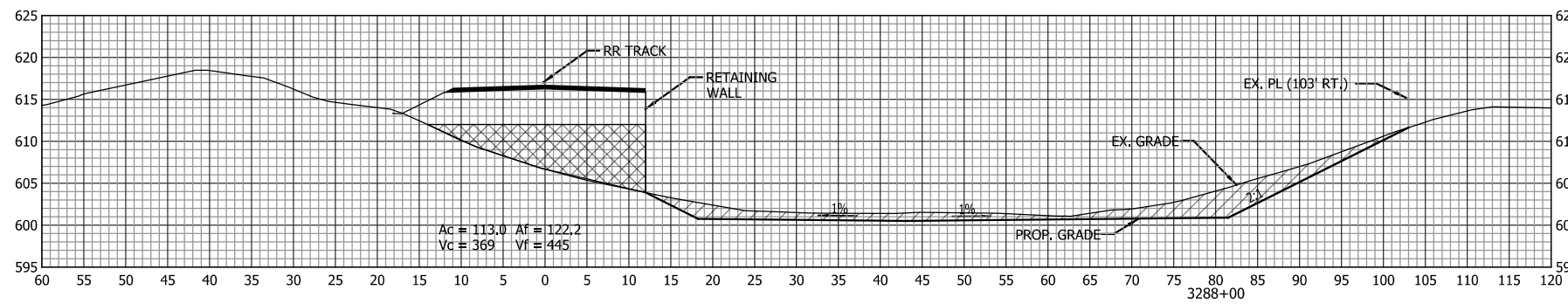
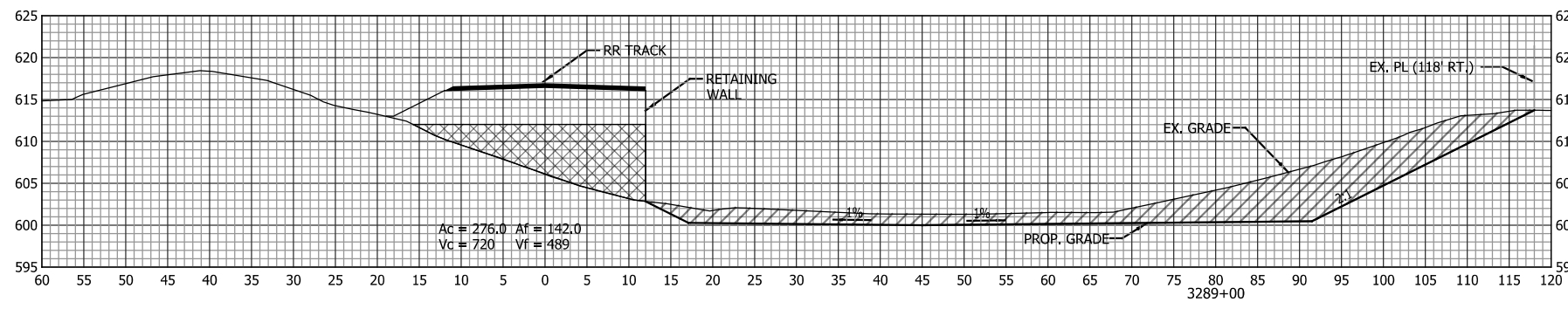
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DATE:	07/21/17



NOT FOR CONSTRUCTION SERIES DRNXS-3 OF DRNXS-12


NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
SINGLE TRACK

**POND MODIFICATION CROSS SECTIONS
DRAINAGE**

FILENAME	SHT_WL_DR_MD_XS_03.dgn	SHEET	55 OF 64
SCALE	AS NOTED		



LEGEND:
 CUT AREA
 FILL AREA

SCALE: 1" = 10'


PLOT DATE: 7/19/2017 11:01:45 PM JKJELIMA



ISSUE	DATE	DESCRIPTION



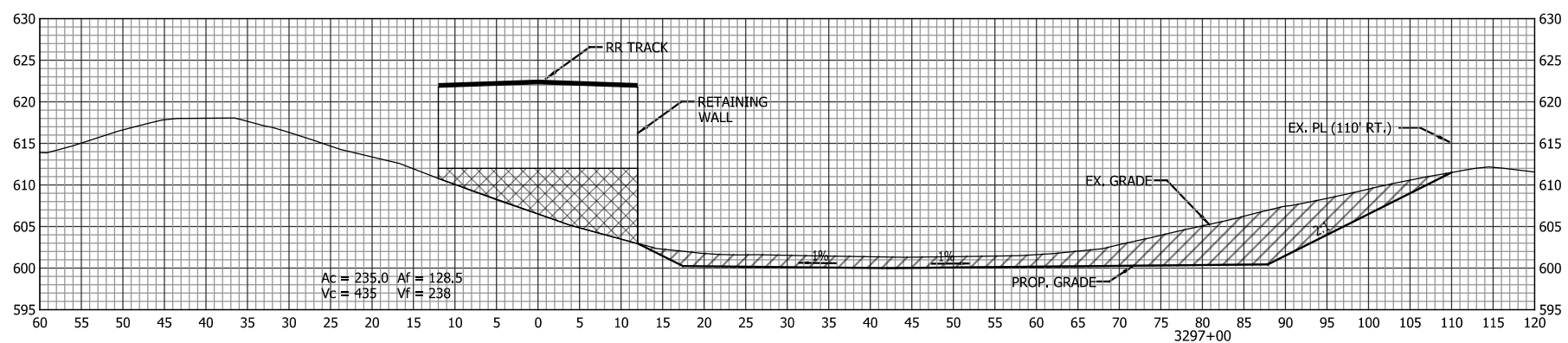
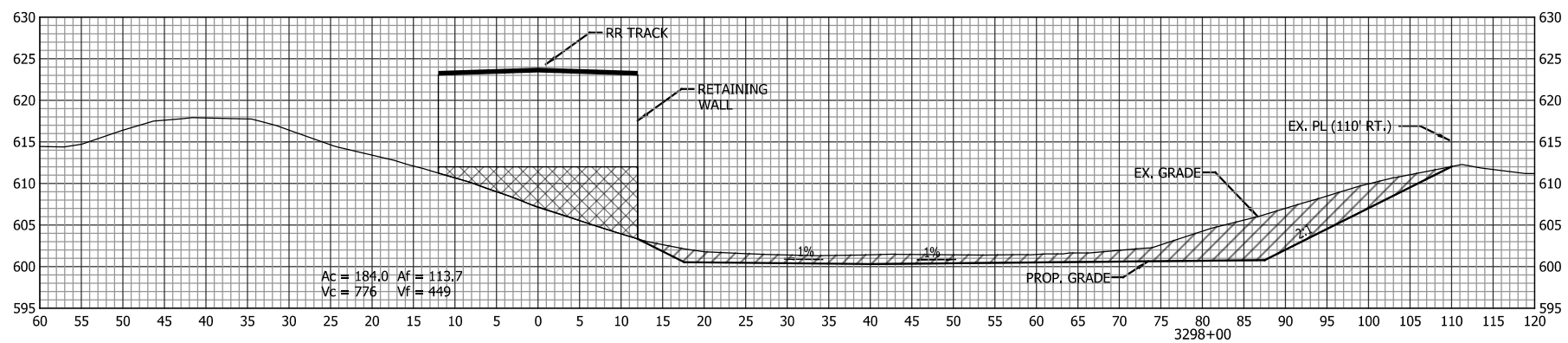
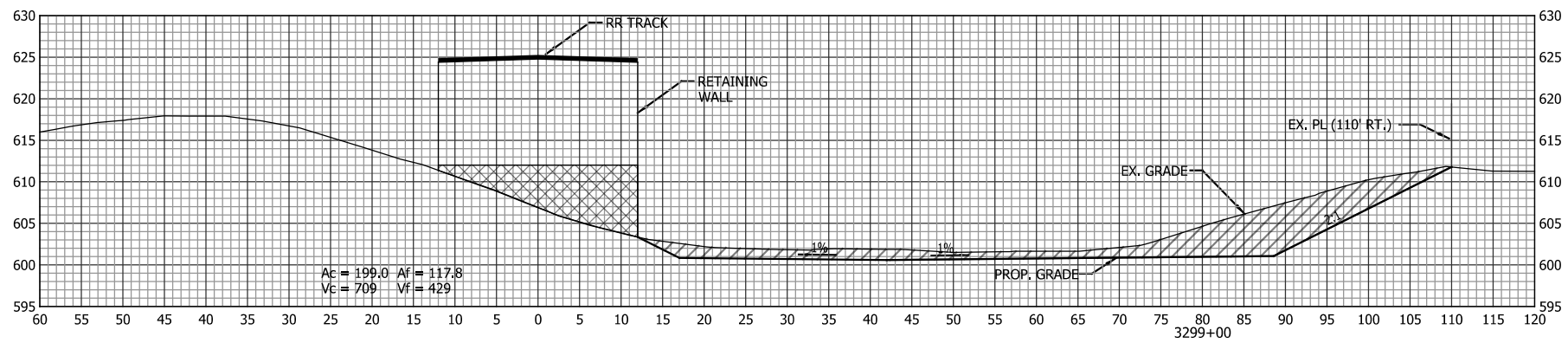
DESIGNED:
DRAWN:
CHECKED:
DATE: 07/21/17

NOT FOR CONSTRUCTION SERIES DRNXS-4 OF DRNXS-12

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
SINGLE TRACK

**POND MODIFICATION CROSS SECTIONS
DRAINAGE**

FILENAME	SHT_WL_DR_MD_XS_04.dgn	SHEET	56 OF 64
SCALE	AS NOTED		



LEGEND:
 CUT AREA
 FILL AREA

SCALE: 1" = 10'

PLOT DATE: 7/19/2017 11:01:52 PM JKJELIMA



ISSUE	DATE	DESCRIPTION



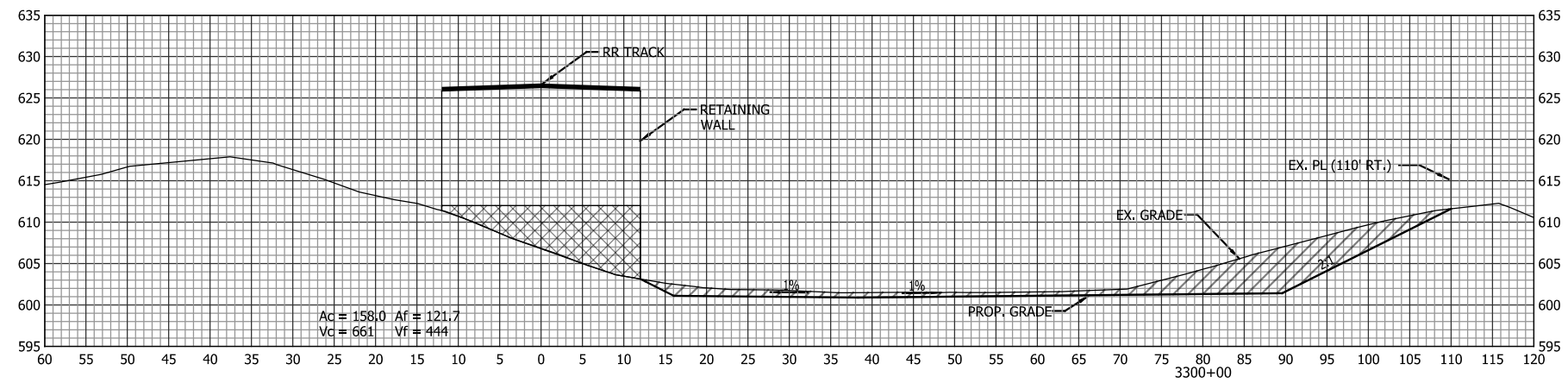
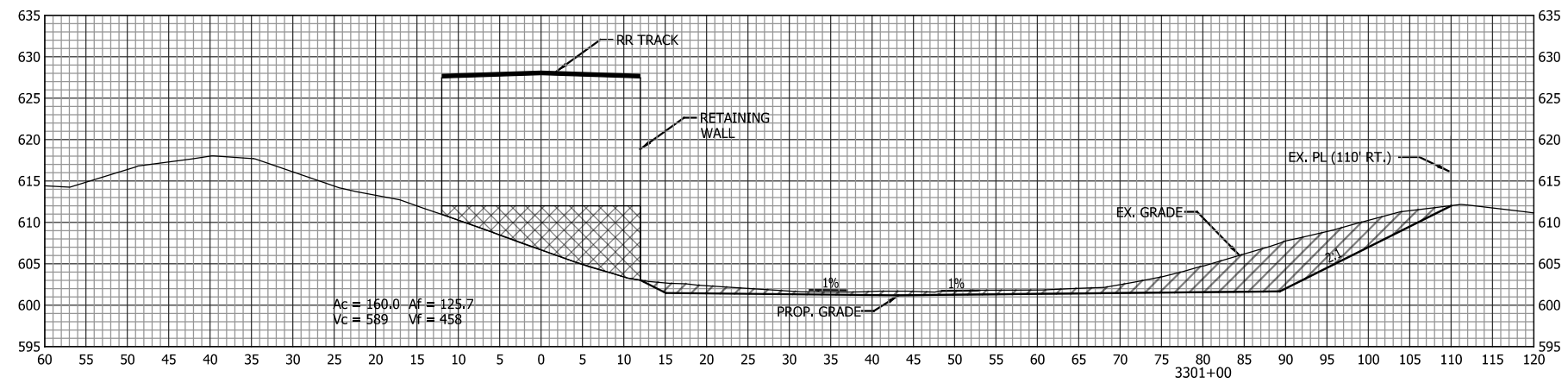
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DRAWN:	
CHECKED:	
DATE:	07/21/17



NOT FOR CONSTRUCTION SERIES DRNXS-5 OF DRNXS-12


NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
SINGLE TRACK

**POND MODIFICATION CROSS SECTIONS
DRAINAGE**

FILENAME	SHT_WL_DR_MD_XS_05.dgn	SHEET	57 OF 64
SCALE	AS NOTED		



LEGEND:
 CUT AREA
 FILL AREA

SCALE: 1" = 10'


PLOT DATE: 7/19/2017 11:02:02 PM JKJELLMA



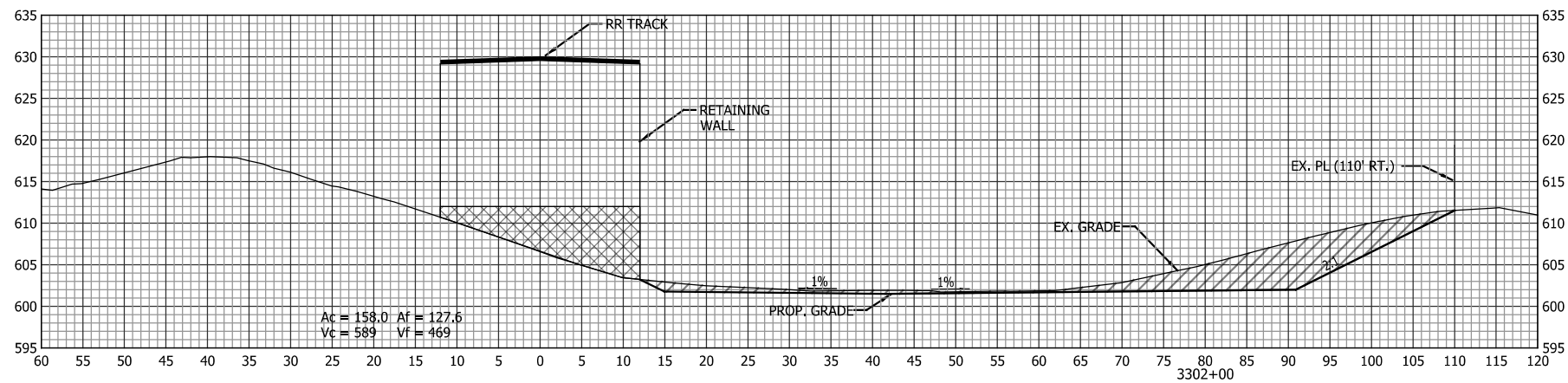
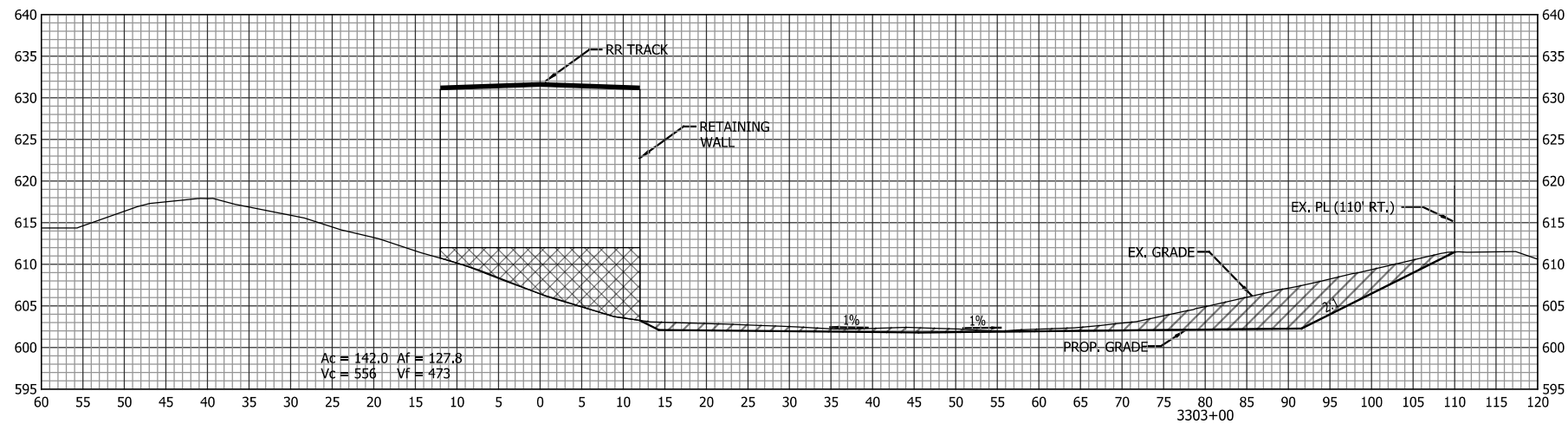
ISSUE	DATE	DESCRIPTION



DESIGNED:	
DRAWN:	
CHECKED:	
DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES DRNXS-6 OF DRNXS-12
 NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
 SINGLE TRACK
**POND MODIFICATION CROSS SECTIONS
 DRAINAGE**
 FILENAME SHT_WL_DR_MD_XS_06.dgn SHEET
 SCALE AS NOTED **58 OF 64**

PLOT DATE: 7/19/2017 11:02:13 PM JKJELLMA



LEGEND:

- CUT AREA
- FILL AREA

SCALE: 1" = 10'

NOT FOR CONSTRUCTION SERIES DRNXS-7 OF DRNXS-12

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
SINGLE TRACK

**POND MODIFICATION CROSS SECTIONS
DRAINAGE**

FILENAME	SHT_WL_DR_MD_XS_07.dgn	SHEET
SCALE	AS NOTED	59 OF 64



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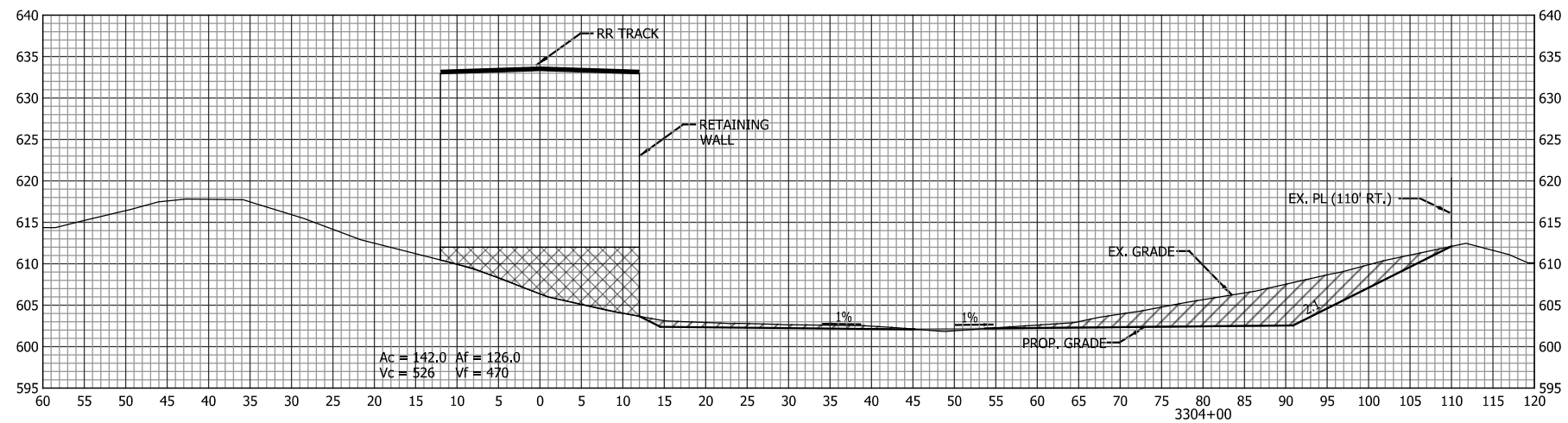
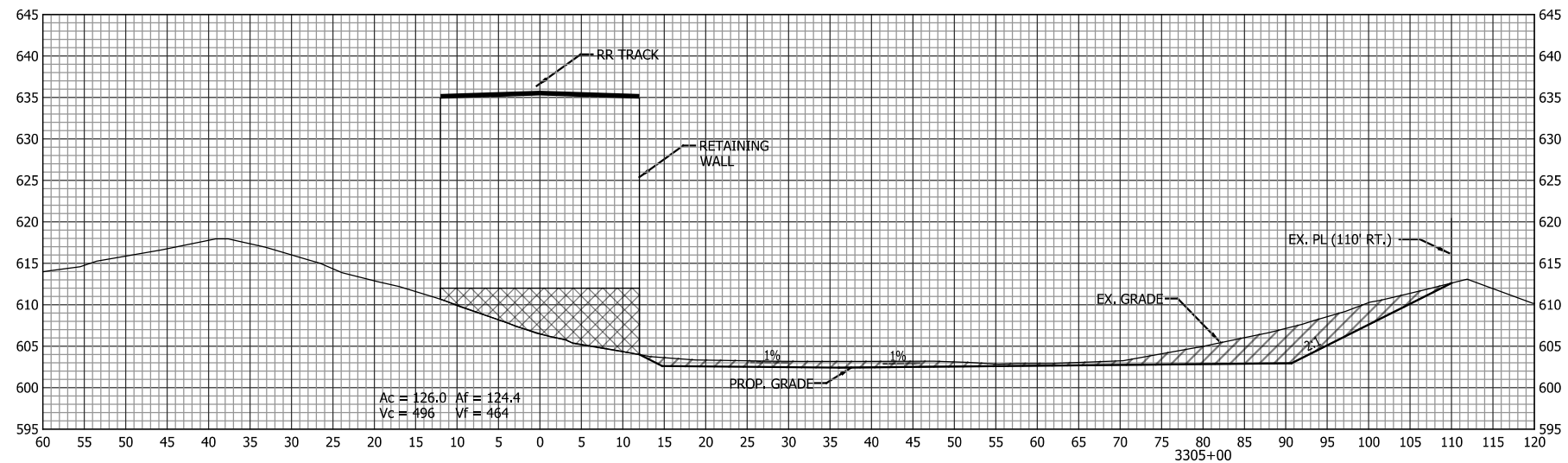
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DRAWN:	
CHECKED:	
DATE:	07/21/17

PLOT DATE: 7/19/2017 11:02:22 PM JKJELIMA



LEGEND:

- CUT AREA
- FILL AREA

SCALE: 1" = 10'

NOT FOR CONSTRUCTION SERIES DRNXS-8 OF DRNXS-12

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
SINGLE TRACK

**POND MODIFICATION CROSS SECTIONS
DRAINAGE**

FILENAME	SHT_WL_DR_MD_XS_08.dgn	SHEET
SCALE	AS NOTED	60 OF 64



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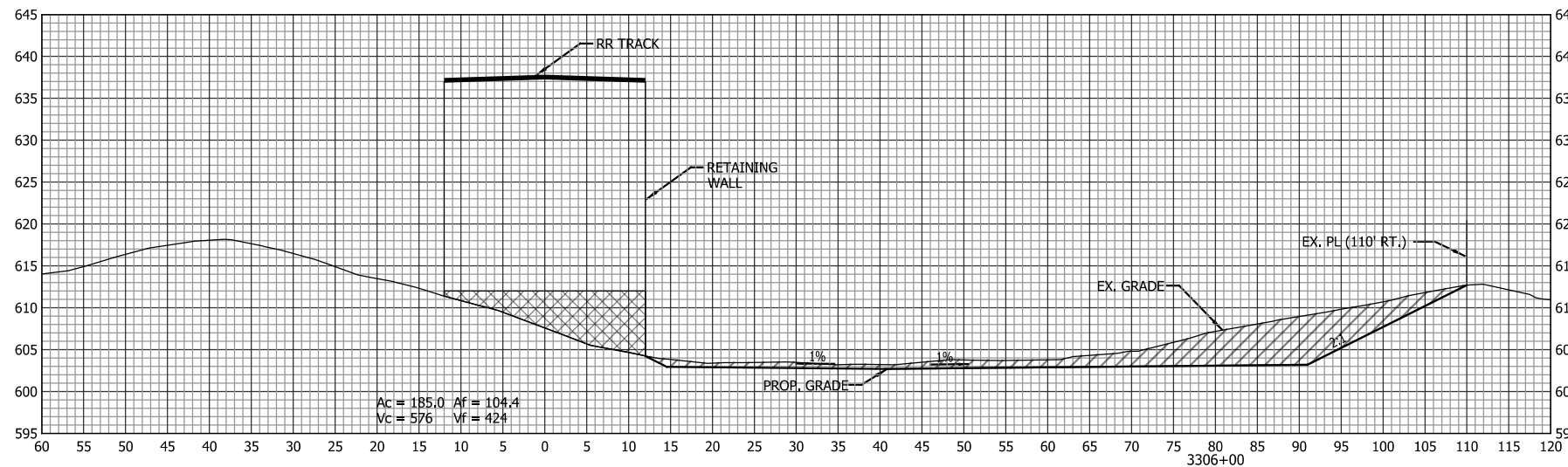
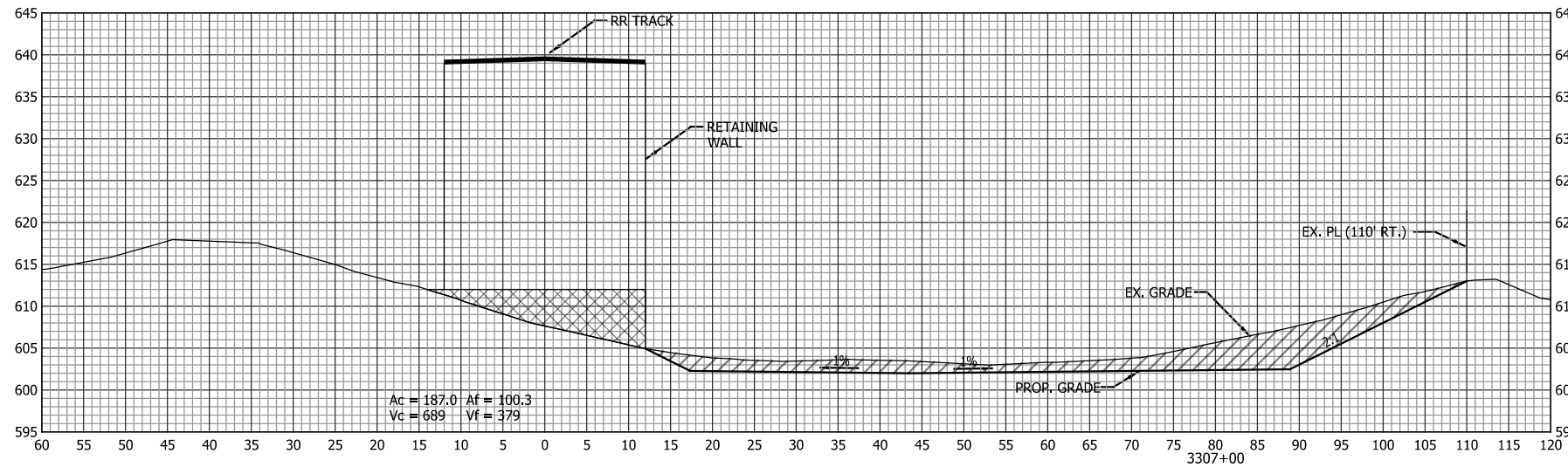


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DRAWN:	
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DATE:	07/21/17



LEGEND:

CUT AREA

FILL AREA

SCALE: 1" = 10'

PLOT DATE: 7/19/2017 11:02:33 PM JKJELLMA



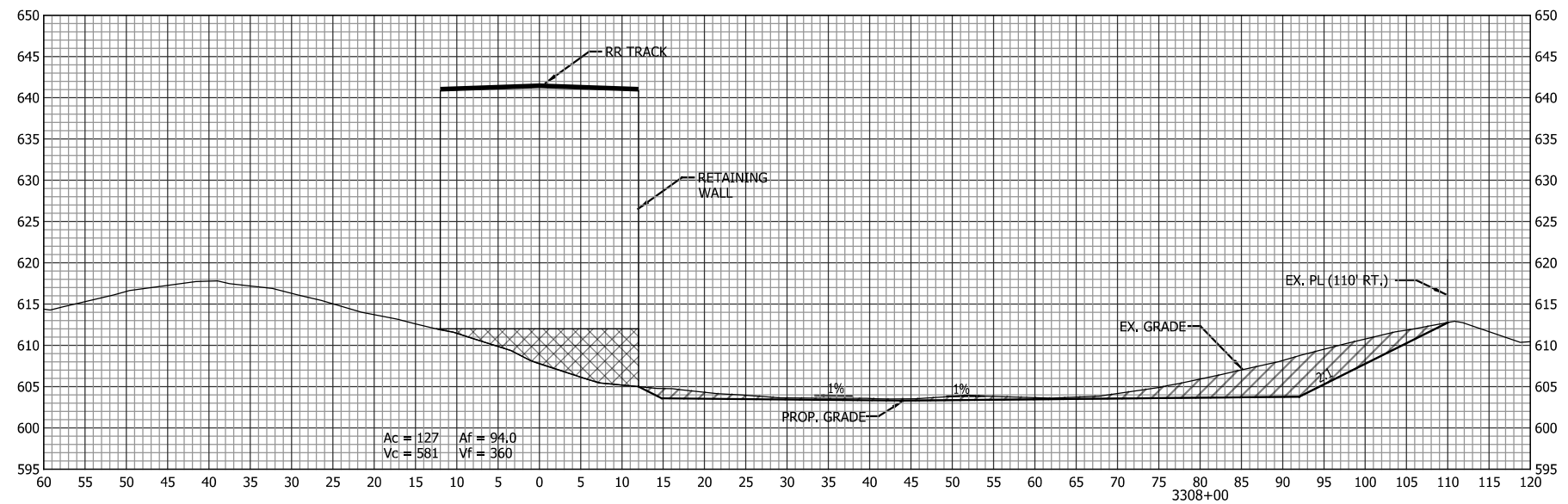
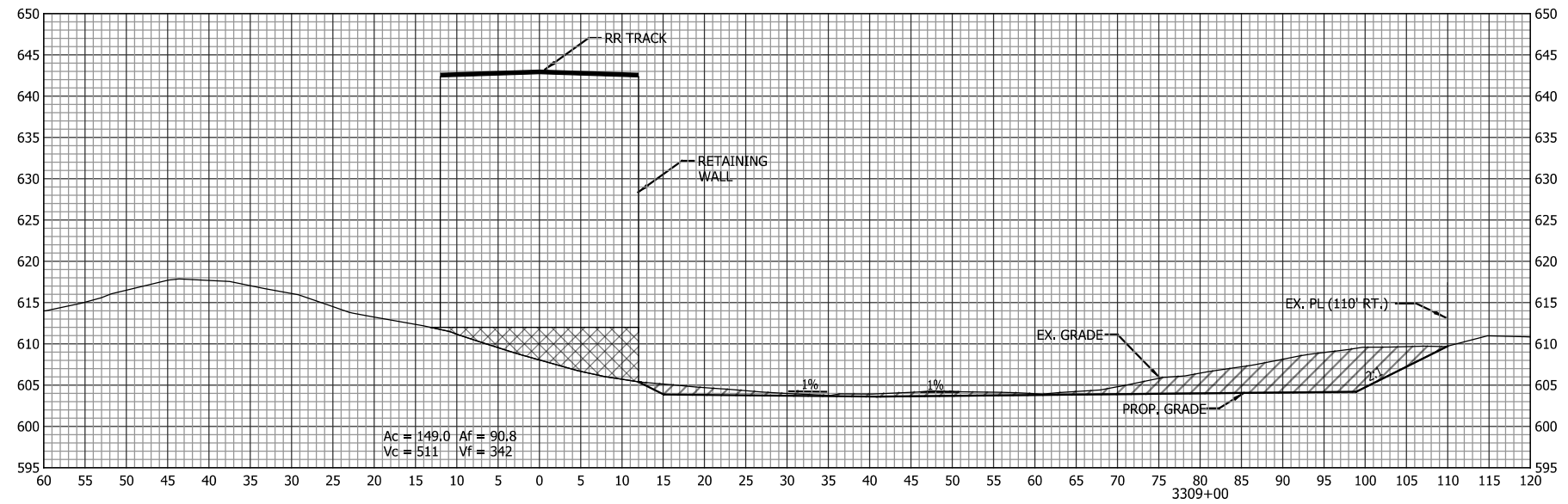
ISSUE	DATE	DESCRIPTION



DESIGNED:	
DRAWN:	
CHECKED:	
DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES DRNXS-9 OF DRNXS-12

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18 SINGLE TRACK		
POND MODIFICATION CROSS SECTIONS DRAINAGE		
FILENAME	SHT_WL_DR_MD_XS_09.dgn	SHEET
SCALE	AS NOTED	61 OF 64



LEGEND:
 CUT AREA
 FILL AREA

SCALE: 1" = 10'

PLOT DATE: 7/19/2017 11:02:45 PM JKJELIMA



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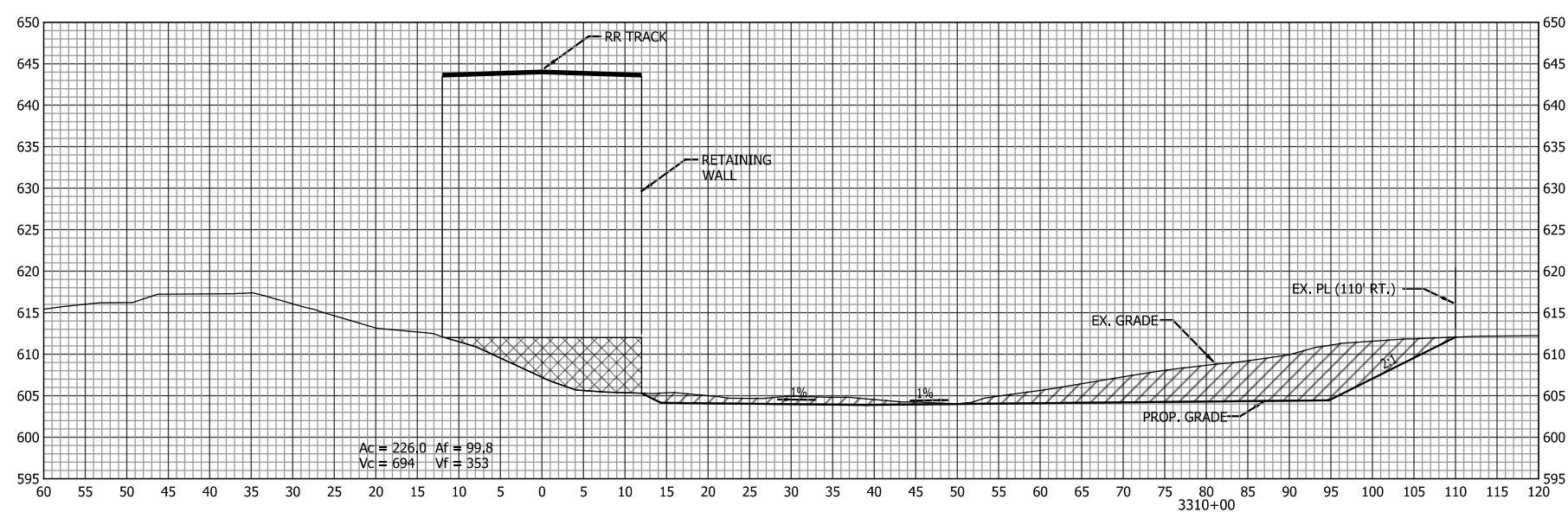
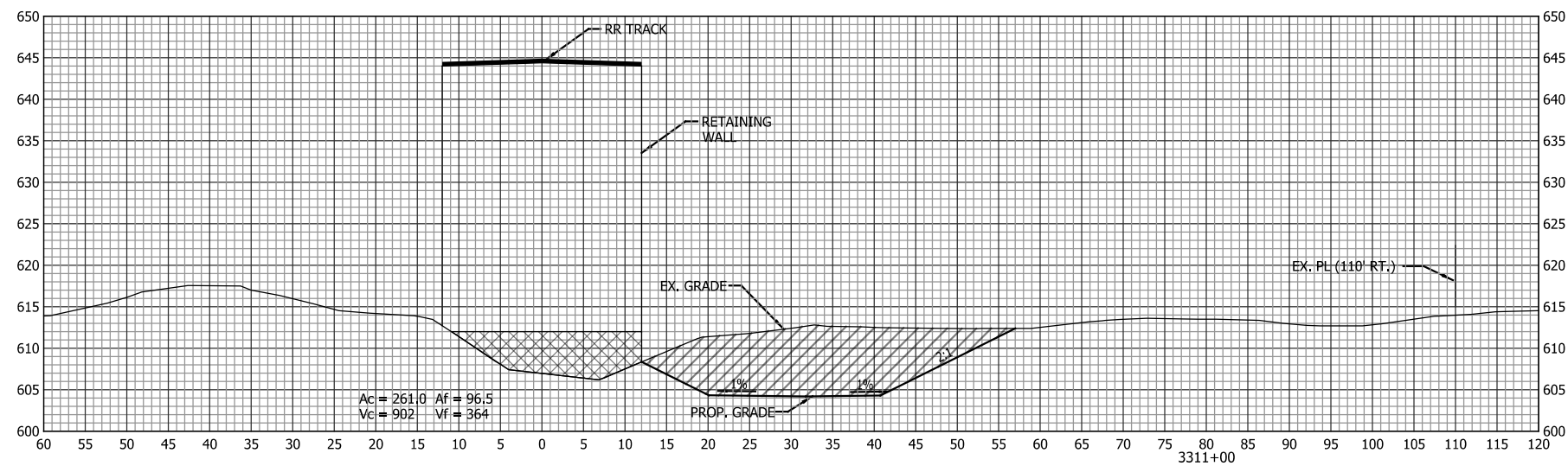
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DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES DRNXS-10 OF DRNXS-12

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
SINGLE TRACK

**POND MODIFICATION CROSS SECTIONS
DRAINAGE**

FILENAME	SHT_WL_DR_MD_XS_10.dgn	SHEET	62 OF 64
SCALE	AS NOTED		



LEGEND:
 CUT AREA
 FILL AREA

SCALE: 1" = 10'

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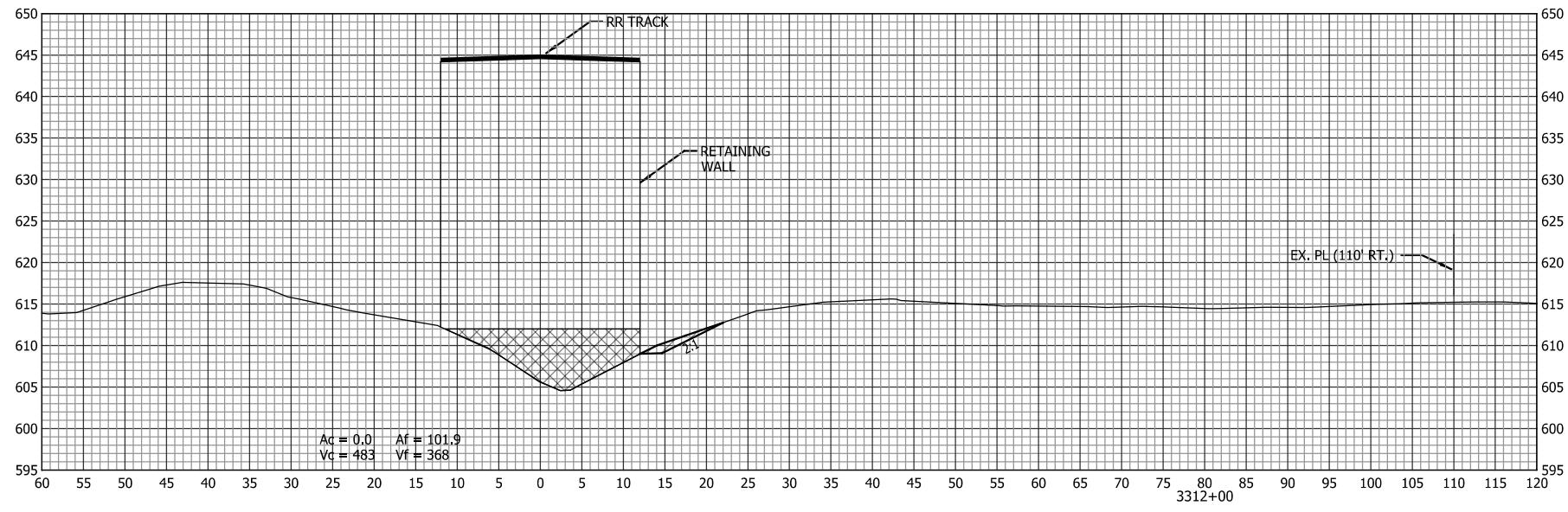
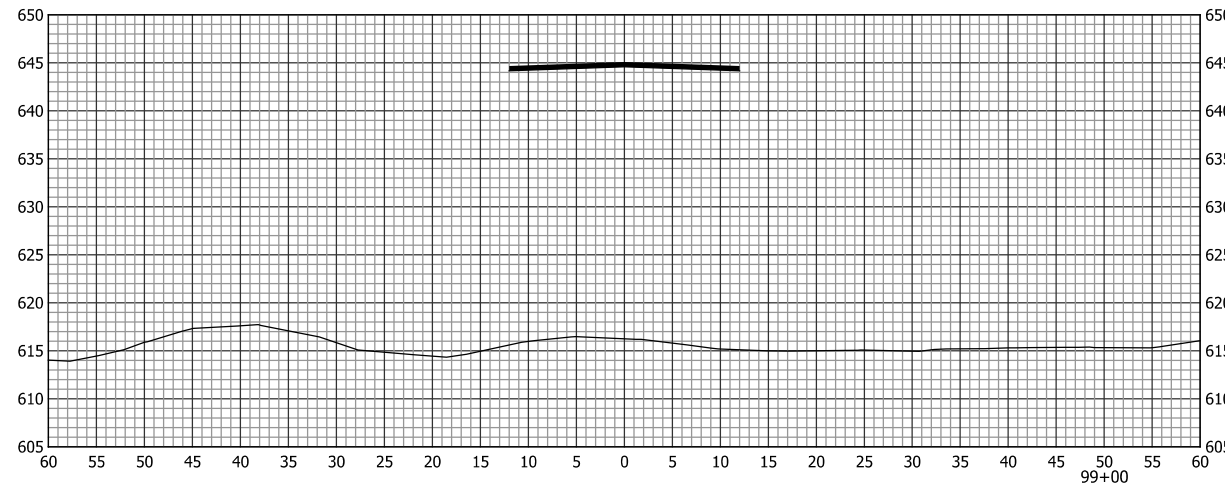
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CHECKED:	
DATE:	07/21/17



NOT FOR CONSTRUCTION SERIES DRNXS-11 OF DRNXS-12

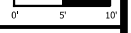
NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
SINGLE TRACK

**POND MODIFICATION CROSS SECTIONS
DRAINAGE**

FILENAME	SHT_WL_DR_MD_XS_11.dgn	SHEET	63 OF 64
SCALE	AS NOTED		



LEGEND:
 CUT AREA
 FILL AREA

SCALE: 1" = 10'


PLOT DATE: 7/19/2017 11:03:08 PM JKJELLMA

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 NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
 SINGLE TRACK
**POND MODIFICATION CROSS SECTIONS
 DRAINAGE**
 FILENAME SHT_WL_DR_MD_XS_12.dgn SHEET
 SCALE AS NOTED **64 OF 64**