PROJECT ID: 1229-04-71
WITH: N/A

COUNTY: MILWAUKEE

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1229-04-71		

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

N PORT WASHINGTON ROAD

BENDER ROAD TO W DAPHINE RD

IH 43

MILWAUKEE COUNTY

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS

DECEMBER 1, 2020

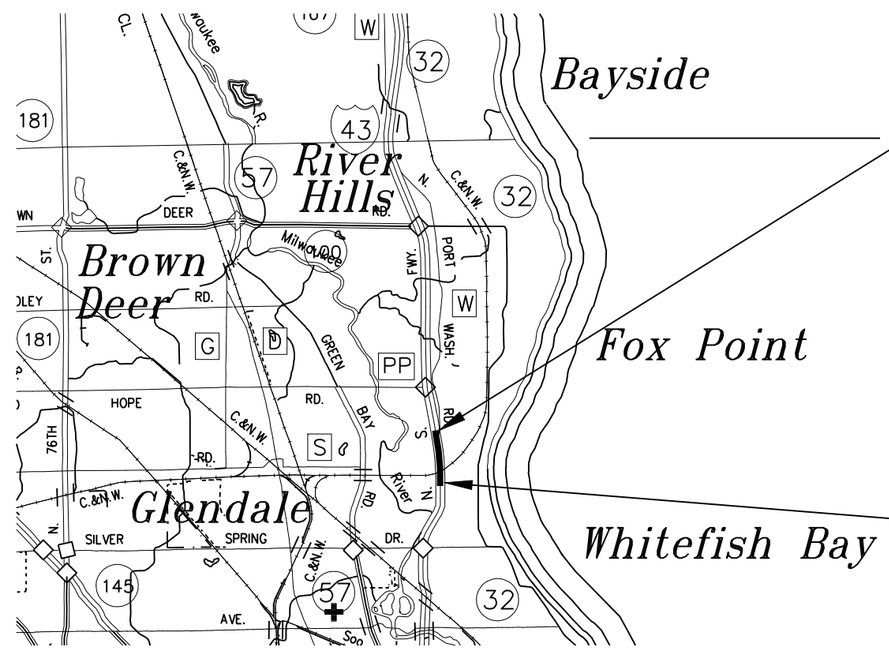
STATE PROJECT NUMBER
1229-04-71

ORDER OF SHEETS

TOTAL SHEETS =

N

DESIGN DESIGNATION			PORT WASHINGTON ROAD
A.A.D.T.	2025	=	10,900
A.A.D.T.	2045	=	11,300
D.H.V.		=	1500
D.D.	NB/SB	=	53/47
T.		=	2%
DESIGN SPEED		=	40 MPH
ESALS		=	



END PROJECT
ID 1229-04-71
STA 136PN+79.17
Y = 336364.59
X = 605010.26

BEGIN PROJECT
ID 1229-04-71
STA 100PN+20.07
Y = 332726.95
X = 605072.38

CONVENTIONAL SYMBOLS

PLAN
- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE (300'EB')
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE
- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES
- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

LAYOUT
SCALE 0 — 0.5 MI

TOTAL NET LENGTH OF CENTERLINE = 0.693 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, MILWAUKEE COUNTY, NAD83 (2007) ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAN.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM (NAVD) 88 (2007).

ORIGINAL PLANS PREPARED BY

HNTB
250 E. WISCONSIN AVE
MILWAUKEE, WI 53202
(414) 359-2300

(Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WISDOT, AYRES, KAPUR
Designer	HNTB
Project Manager	STEVE HOFF
Regional Examiner	
Regional Supervisor	MANOJOY NAG

APPROVED FOR THE DEPARTMENT

DATE: _____ (Signature)

E

2

UTILITY CONTACTS

AT&T LOCAL NETWORK
C/O JENNIFER NAVARRO
NORTHWIND TECHNICAL SERVICES
6070 N. FLINT ROAD
GLENDALE, WI 53209
PHONE: (414) 459-3564
J.NAVARRO@NORTHWINDTECH.COM

AT&T WISCONSIN (SOUTH OF GLEN OAKS LN.)
JAY BULANEK
2005 PEWAUKEE ROAD
WAUKESHA, WI 53188
PHONE: (262) 896-7669
CELL: (414) 491-2855
JB5175@ATT.COM

CENTURYLINK COMMUNICATIONS
JASON BUSSE
3235 INTERTECH DRIVE, SUITE 600
BROOKFIELD, WI 53045
PHONE: (414) 224-6713
CELL: (715) 415-3214
JASON.BUSSE@LUMEN.COM

CHARTER COMMUNICATIONS
BEAU ABUYA
1320 N. MARTIN LUTHER KING JR. DRIVE
MILWAUKEE, WI 53212
PHONE: (414) 908-1343
CELL: (414) 758-9241
BEAU.ABUYA@CHARTER.COM
WIS.ENGINEERING@CHARTER.COM

FOX POINT, VILLAGE OF – WATER
SCOTT BRANDMEIER
7200 N. SANTA MONICA BLVD
FOX POINT, WI 53217
PHONE: (414) 351-8900
SBRANDMEIER@VIL.FOX-POINT.WI.US

GLENDALE, CITY OF –
LIGHTING, SEWER, SIGNALS, WATER
CHARLIE IMIG
5909 N MILWAUKEE RIVER PARKWAY
GLENDALE, WI 53209
PHONE: (414) 228-1742
C.IMIG@GLENDALE-WI.GOV

MIDWEST FIBER NETWORKS
RICHARD TRGOVEC
6070 N. FLINT ROAD
GLENDALE, WI 53209
PHONE: (414) 459-3554
CELL: (414) 349-2979
RTRGOVEC@MIDWESTFIBERNETWORKS.COM

MILWAUKEE METROPOLITAN SEWERAGE DISTRICT
MICKI KLAPPA-SULLIVAN
260 W SEEBOTH STREET
MILWAUKEE, WI 53204
PHONE: (414) 225-2178
MKLAPPASULLIVAN@MMSD.COM

NORTH SHORE WATER COMMISSION
ERIC KIEFER
400 W BENDER RD
GLENDALE, WI 53217
PHONE: (414) 963-0160
EKIEFER@NORTHSHOREWC.COM

SPRINT COMMUNICATIONS
DAN HILLIARD
OSP ENGINEER III
849 EARL STREETST. PAUL, MN 55106
PHONE: (320) 281-0187
CELL: (612) 217-3526
DAN.J.HILLIARD@T-MOBILE.COM

VERIZON BUSINESS
RJ CICATELLO, JR.
15725 WEST RYERSON ROAD
NEW BERLIN, WI 53151
PHONE: (262) 782-9836
RANDY.CICATELLO@VERIZON.COM

WE ENERGIES - ELECTRIC
NICHOLAS WELCH
500 S. 116TH STREET
WEST ALLIS, WI 53214
PHONE: (414) 944-5765
CELL: (414) 791-0406
NICHOLAS.WELCH@WE-ENERGIES.COM

WE ENERGIES - GAS
NICK ERNSTER
500 S. 116TH STREET
WEST ALLIS, WI 53214
PHONE: (414) 944-5574
NICHOLAS.ERNSTER@WE-ENERGIES.COM

WHITEFISH BAY, VILLAGE OF – WATER
JOHN EDLEBECK
155 W FAIRMOUNT AVE
WHITEFISH BAY, WI 53217
(414) 962-6690
J.EDLEBECK@WFBVILLAGE.ORG

WISCONSIN INDEPENDENT NETWORK (WIN)
JIM BIRKENHEIER
800 WISCONSIN AVENUE
SUITE 219
EAU CLAIRE, WI 54703
PHONE: (715) 832-6041
CELL: (715) 838-4007
JIM.BIRKENHEIER@WINTECHNOLOGY.COM

WISDOT - COMMUNICATIONS
JEFFREY MADSON
433 W ST. PAUL AVENUE
SUITE 300
MILWAUKEE, WI 53203
PHONE: (414) 225-3723
JEFFREY.MADSON@DOT.WI.GOV

WISDOT - LIGHTING
ERIC PEREA
141 NW BARSTOW STREET
WAUKESHA, WI 53187
PHONE: (262) 574-5422
CELL: (414) 750-0935
ERIC.PEREA@DOT.WI.GOV

STATE AGENCIES

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
KRISTINA BETZOLD
DNR SERVICE CENTER
2300 N. MARTIN LUTHER KING JR.
MILWAUKEE WI 53212
PHONE: (414) 507-4946
KRISTINA.BETZOLD@WISCONSIN.GOV

WISCONSIN DEPARTMENT OF TRANSPORTATION
DOBRA PAYANT - ENVIRONMENTAL ANALYST AND REVIEW SPECIALIST
141 NW BARSTOW STREET
WAUKESHA, WI 53187-0798
CELL: (414) 750-2677
DOBRA.PAYANT@DOT.WI.GOV

WISCONSIN DEPARTMENT OF TRANSPORTATION
MIKE BIRCHBACH
CONSTRUCTION UTILITY COORDINATING ENGINEER
141 NW BARSTOW STREET
WAUKESHA, WI 53187-0798
CELL: (414) 750-2532
MICHAEL.BIRSCHBACH@DOT.WI.GOV

WISCONSIN DEPARTMENT OF TRANSPORTATION
STEVE HOFF
PROJECT MANAGER
141 NW BARSTOW STREET
WAUKESHA, WI 53187-0798
PHONE: (262) 548-6718
STEVE.HOFF@DOT.WI.GOV

WISCONSIN DEPARTMENT OF TRANSPORTATION
BIANCA CLAYTON
WISDOT SE REGION SWEC ENGINEER LIAISON (DCIP/ECIP)
141 NW BARSTOW STREET
WAUKESHA, WI 53187-0798
PHONE: (262) 548-6424
BIANCA.CLAYTON@DOT.WI.GOV

OTHER AGENCIES

MILWAUKEE COUNTY – ROAD FACILITY
DANIEL MURPHY
10320 WATERTOWN PLANK RD
WAUWATOSA, WI 53226
PHONE: (414) 257-5942
DANIEL.MURPHY@MILWAUKEECOUNTYWI.GOV

SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION
ROB MERRY
W239 N1812 ROCKWOOD DRIVE
P.O. BOX 1607
WAUKESHA, WI 53187-1607
PHONE: (262) 953-4289
CELL: (920) 912-1036
RMERRY@SEWRPC.ORG

UNION PACIFIC RAILROAD COMPANY
SEAN COLLIER
1525 RALEIGH STREET, SUITE 400
DENVER, CO 80204
PHONE: (303) 374-3162
SCOLLIER@OLSSON.COM

DESIGN CONTACTS

ANDY KOWSKE
HNTB CORPORATION
250 E. WISCONSIN AVE, SUITE 2000
MILWAUKEE WI 53202
PHONE (414)410-6756

DIGGERS HOTLINE
Dial 811 or (800) 242-8511
www.DiggersHotline.com

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.

GENERAL NOTES

NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

ALL HOLES OR OPENINGS BELOW SUBGRADE RESULTING FROM ABANDONMENT OR REMOVAL OF EXISTING STRUCTURES SHALL BE FILLED WITH COMPACTED GRANULAR BACKFILL UNLESS REGULATIONS REQUIRE OTHERWISE.

WHEN THE QUANTITY OF HMA PAVEMENT OR BASE AGGREGATE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

THE QUANTITY OF SALVAGED TOPSOIL IS COMPUTED FROM MEASUREMENTS BETWEEN THE SUBGRADE SHOULDER POINTS AND THE SLOPE INTERCEPTS AS SHOWN ON THE CROSS SECTIONS.

TEMPORARY STORAGE OF ANY EXCAVATED MATERIAL WILL NOT BE PERMITTED IN WETLANDS.

BROKEN CONCRETE CONTAINING RE-BAR SHALL NOT BE USED AS RIPRAP OR HEAVY RIPRAP OR EBS BACKFILL.

CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED. TOPSOIL SHALL BE REPLACED WITH 4-INCH TYPICAL DEPTH IN RURAL SECTIONS AND 6-INCH TYPICAL DEPTH IN URBAN SECTIONS.

A SAWED JOINT IS REQUIRED WHERE HMA PAVEMENT MEETS EXISTING ASPHALTIC CONCRETE SURFACE. SAWING ASPHALTIC AND CONCRETE DRIVEWAYS AND/OR PARKING LOTS AT THE MATCHLINE AS SHOWN ON THE PAVING DETAILS OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

RE-TOPSOIL GRADED AREAS, AS DESIGNATED BY THE ENGINEER, IMMEDIATELY AFTER GRADING IS COMPLETED WITHIN THOSE AREAS. SEED, FERTILIZE, AND MULCH/EROSION MAT TOPSOILED AREAS, AS DESIGNATED BY THE ENGINEER, WITHIN FIVE (5) CALENDAR DAYS AFTER PLACEMENT OF TOPSOIL. IF GRADED AREAS ARE LEFT EXPOSED FOR MORE THAN (14) CALENDAR DAYS, SEED THOSE AREAS WITH TEMPORARY SEED.

FERTILIZER SHALL NOT BE USED WITHIN 20 FEET OF NAVIGABLE WATERWAYS OR WETLANDS.

SALVAGED TOPSOIL, FERTILIZER, MULCH AND SEED SHALL BE PLACED AS DIRECTED BY THE ENGINEER. IN DISTURBED AREAS WITHIN THE RIGHT OF WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS.

STOCKPILE EXCESS MATERIAL OR SPOILS ON UPLAND AREAS AWAY FROM WETLANDS, FLOODPLAINS AND WATERWAYS. STOCKPILED SOIL SHALL BE PROTECTED AGAINST EROSION. IF STOCKPILED MATERIAL IS LEFT FOR MORE THAN FOURTEEN (14) CALENDAR DAYS, SEED THE STOCKPILE WITH TEMPORARY SEED AND MULCH.

EROSION CONTROL BMP'S ARE AT SUGGESTED LOCATIONS. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S ECIP AND BY THE ENGINEER. EROSION CONTROL BMP'S SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE BMP IS NO LONGER REQUIRED.

REMOVAL OF EROSION CONTROL DEVICES IS INCLUDED IN THE COST OF THEIR RESPECTIVE BID ITEMS.

RIGHT-OF-WAY SHOWN IS APPROXIMATE AND DERIVED FROM GIS INFORMATION PROVIDED BY COUNTIES. PLATTED RIGHT-OF-WAY IS FORTHCOMING.

PROPOSED NOISE WALLS SHOWN AT REASONABLE AND FEASIBLE LOCATIONS IDENTIFIED IN THE ENVIRONMENTAL DOCUMENT AND SUBJECT TO CHANGE.

INLET PROTECTION IS REQUIRED AT ALL INLETS AS SHOWN ON THE EROSION CONTROL PLANS OR AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL PROVIDE A CONCRETE JOINT DETAIL 14 DAYS PRIOR TO PAVING FOR APPROVAL BY THE ENGINEER. 15' MAXIMUM SPACING FOR LONGITUDINAL JOINTS.

CONCRETE PAVEMENT TINING SHALL BE LONGITUDINAL

SIGNS IN CONFLICT WITH TRAFFIC CONTROL 'IN USE' SHALL BE COVERED AS DIRECTED BY THE ENGINEER AND PAID FOR UNDER THE ITEM TRAFFIC CONTROL COVERING SIGNS TYPE I OR TYPE II.

MAINTAIN DRAINAGE OF THE EXISTING STORM SEWER SYSTEM UNTIL THE PROPOSED STORM SEWER SYSTEM IS FUNCTIONAL.

ALL INLET COVERS WITHIN LIVE TRAFFIC DURING STAGED CONSTRUCTION SHALL BE FASTENED ACCORDING TO THE SPECIAL PROVISIONS.

TACK COAT HAS BEEN ESTIMATED AT AN APPLICATION RATE OF 0.07 GALLON PER SQUARE YARD AND SHALL BE APPLIED BETWEEN ALL LAYERS OF ASPHALTIC PAVEMENT.

CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE. CURB AND GUTTER RADII DIMENSIONS ARE MEASURED TO THE FLANGE LINE UNLESS OTHERWISE NOTED.

PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, THE CONTRACTOR SHALL VERIFY RELATED DRAINAGE INFORMATION IN THE PLAN AND PROVIDE DOCUMENTATION TO ENGINEER IN ACCORDANCE WITH THE SPECIFICATIONS.

CONCRETE MEDIAN SLOPED NOSE SHALL BE CONSTRUCTED FOR ALL MEDIAN OPENINGS AT INTERSECTIONS WITH CURB & GUTTER.

SEEDING MIXTURE NO. 70A IN HABITAT RESTORATION/CREATION AREAS.

CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER AND SEWRPC AT LEAST TWO (2) WEEKS RIOR TO WORK NEAR ANY PUBLIC SURVEY MONUMENT.

FOR SECTION CORNER REPLACEMENT CONTACT JOHN WASHBURN WITH SEWRPC AT 414-218-2866 OR JWASHBURN@SEWRPC.ORG AT LEAST TWO WEEKS BEFORE STARTING CONSTRUCTION OPERATIONS.

CONSTRUCT HMA PAVEMENT WITH THE FOLLOWING LAYERS AND GRADATIONS:

HMA PAVEMENT TYPE	TOTAL PAVEMENT THICKNESS	LAYERS
58-28 S	5"	2" UPPER LAYER
		3" LOWER LAYER

ALIGNMENT NAMING ABBREVIATIONS

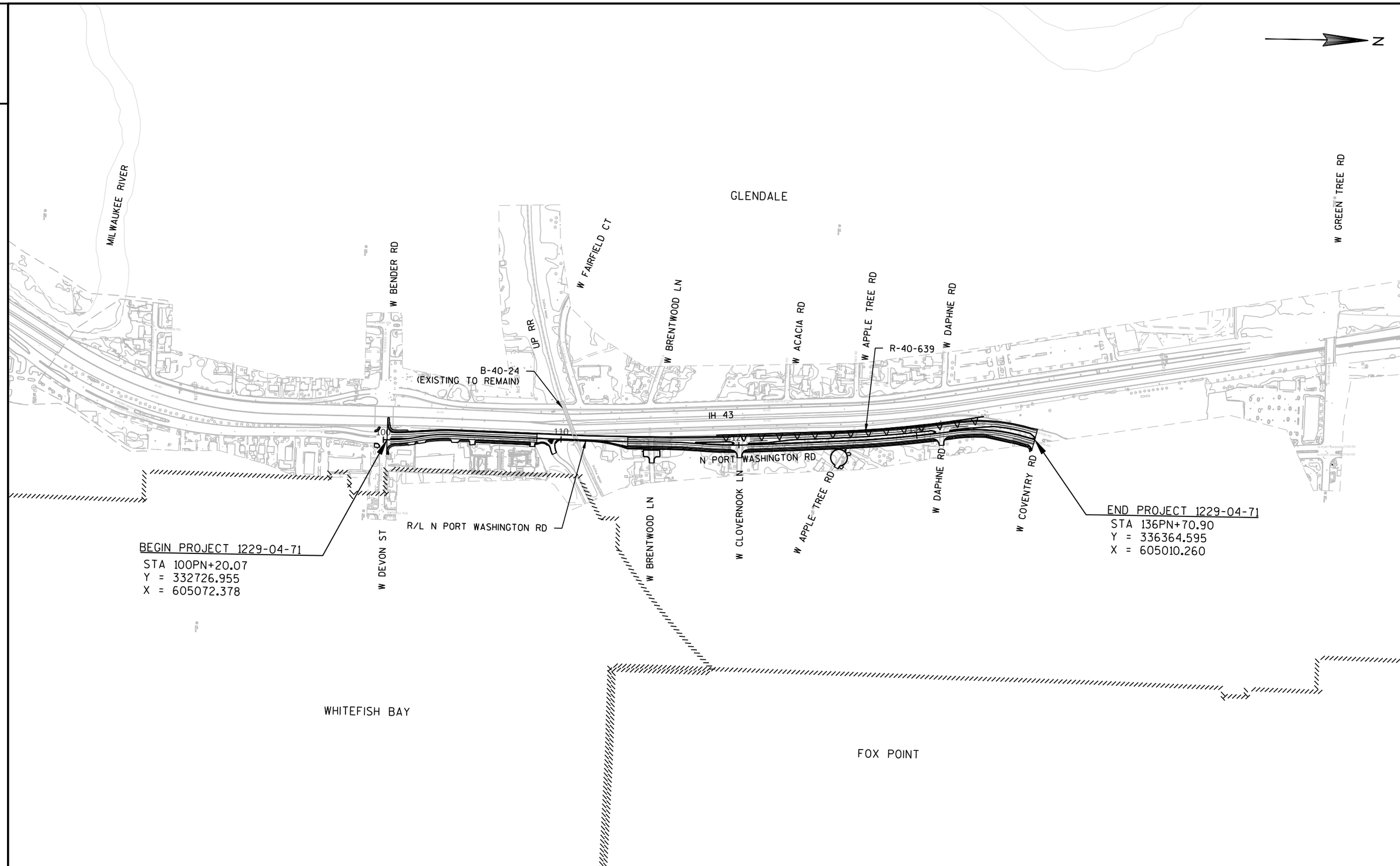
ROAD ABBREVIATION

N PORT WASHINGTON ROAD NB	PN
N PORT WASHINGTON ROAD SB	PS
KARL CAMPUS DRIVE	CS
W BRENTWOOD LANE	BE
W CLOVERNOOK LANE	CK
W APPLETREE ROAD	AE
W DAPHNE ROAD	DE
W COVENTRY COURT	CV
BENDER ROAD	BN

STANDARD ABBREVIATIONS

AEW	APRON ENDWALL
AGG	AGGREGATE
BAD	BASE AGGREGATE DENSE
BM	BENCHMARK
C&G	CURB AND GUTTER
C/L	CENTER OR CONSTRUCTION LINE
CMCP	CULVERT PIPE CORRUGATED METAL
CONC	CONCRETE
COS	CENTER OF STRUCTURE
CP	CULVERT PIPE
CPRC	CULVERT PIPE REINFORCED CONCRETE
CSD	CONCRETE SURFACE DRAIN
CY	CUBIC-YARD
D	DEGREE OF CURVE
Δ	DELTA
DISCH	DISCHARGE
FE	FIELD ENTRANCE
HMA	HOT MIX ASPHALT
INV	INVERT
L	LENGTH OF CURVE
LHF	LEFT HAND FORWARD
LT	LEFT
MIN	MINIMUM
M/L	MATCHLINE
NB	NORTHBOUND
NC	NORMAL CROWN
PAVT	PAVEMENT
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PE	PRIVATE ENTRANCE
PI	POINT OF INTERSECTION
PLE	PERMANENT LIMITED EASEMENT
PT	POINT OF TANGENT
R	RADIUS OF CURVE
R/L	REFERENCE LINE
R/W	RIGHT OF WAY
RC	REVERSE CROWN
RCAEW	APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE
REQD	REQUIRED
RHF	RIGHT HAND FORWARD
RO	RUN OFF LENGTH
RRSP	RAILROAD SPIKE
RT	RIGHT
SALV	SALVAGED
SAPBC	SALVAGED ASPHALTIC PAVEMENT BASE COURSE
SB	SOUTHBOUND
SDD	STANDARD DETAIL DRAWING
SE	SUPERELEVATION
SF	SQUARE FOOT
STA	STATION
SY	SQUARE YARD
T	TANGENT LENGTH
TLE	TEMPORARY LIMITED EASEMENT
VCL	VERTICAL CURVE LENGTH
VPC	POINT OF VERTICAL CURVE
VPI	POINT OF VERTICAL INTERSECTION
VPT	POINT OF VERTICAL TANGENT

ORDER OF SECTION 2 DETAIL SHEETS



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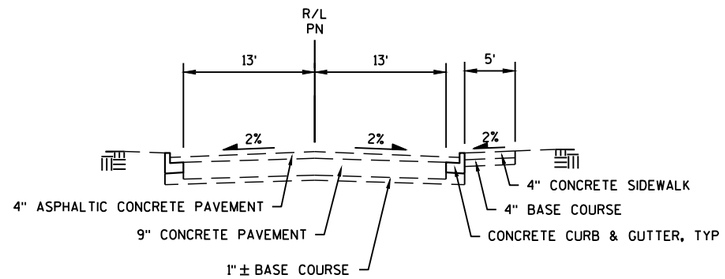
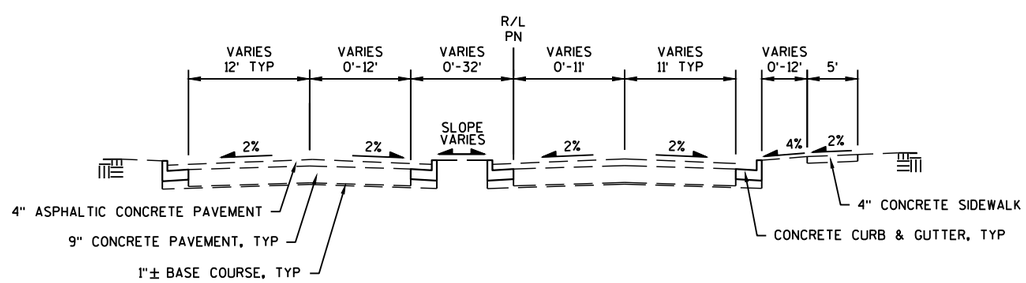
PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	PROJECT OVERVIEW	SHEET	E



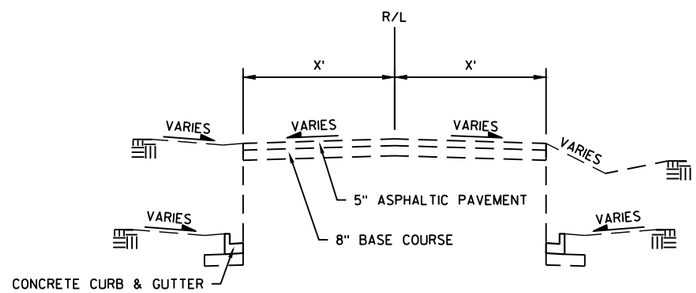
TYPICAL EXISTING SECTION
N. PORT WASHINGTON ROAD

STA 104PN+26 TO STA 132PN+05



TYPICAL EXISTING SECTION
N. PORT WASHINGTON ROAD

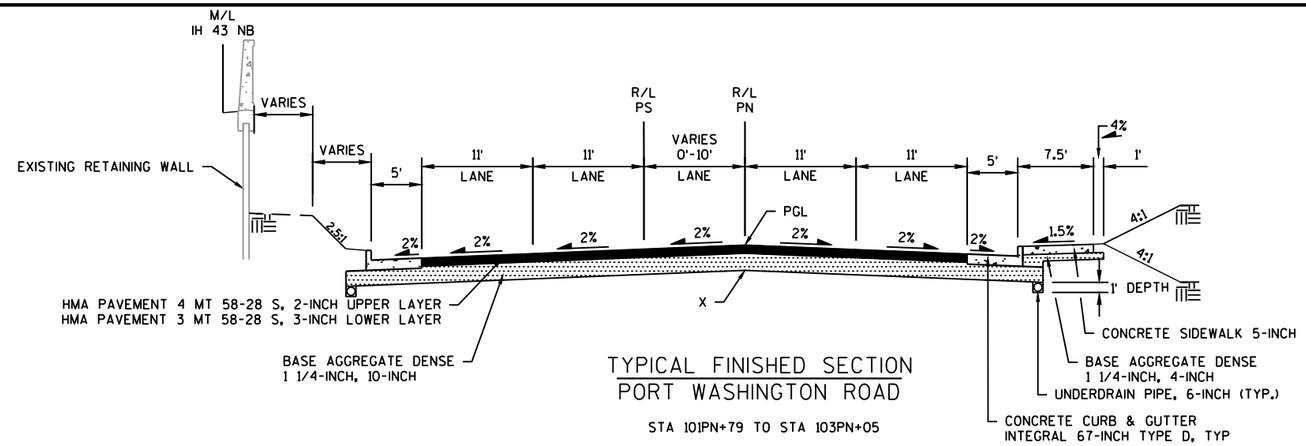
STA 100PN+20 TO STA 104PN+26
STA 132PN+05 TO STA 136PN+70



ROAD NAME	X'
W FAIRFIELD COURT	15
W BRENTWOOD LANE	12
W CLOVERNOOK LANE	12
W APPLE TREE ROAD	11
W DAPHNE ROAD	11

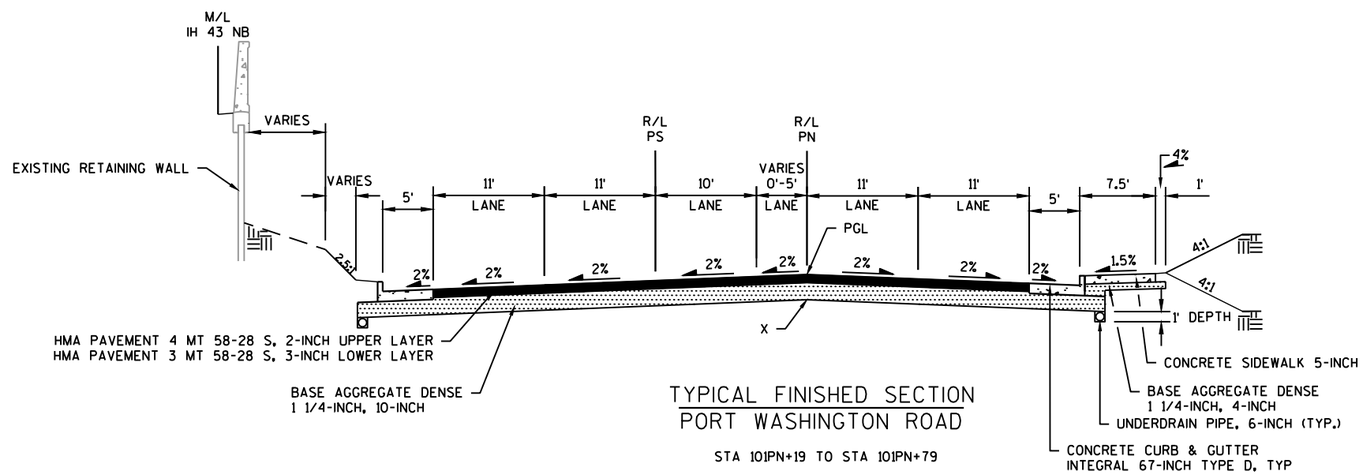
TYPICAL EXISTING SECTION
SIDE ROADS (SEE TABLE)

2



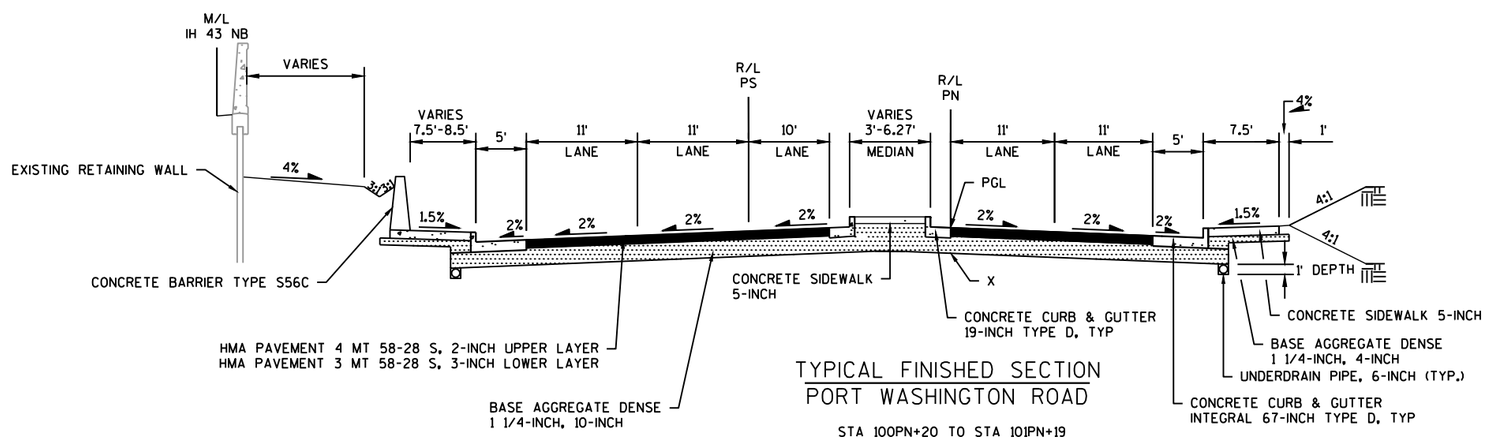
TYPICAL FINISHED SECTION
PORT WASHINGTON ROAD

STA 101PN+79 TO STA 103PN+05



TYPICAL FINISHED SECTION
PORT WASHINGTON ROAD

STA 101PN+19 TO STA 101PN+79



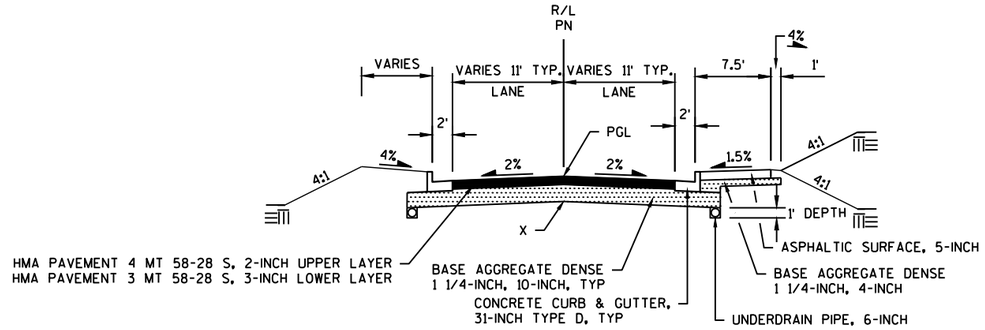
TYPICAL FINISHED SECTION
PORT WASHINGTON ROAD

STA 100PN+20 TO STA 101PN+19

NOTES:
PGL= POINT REFERRED TO ON PROFILE

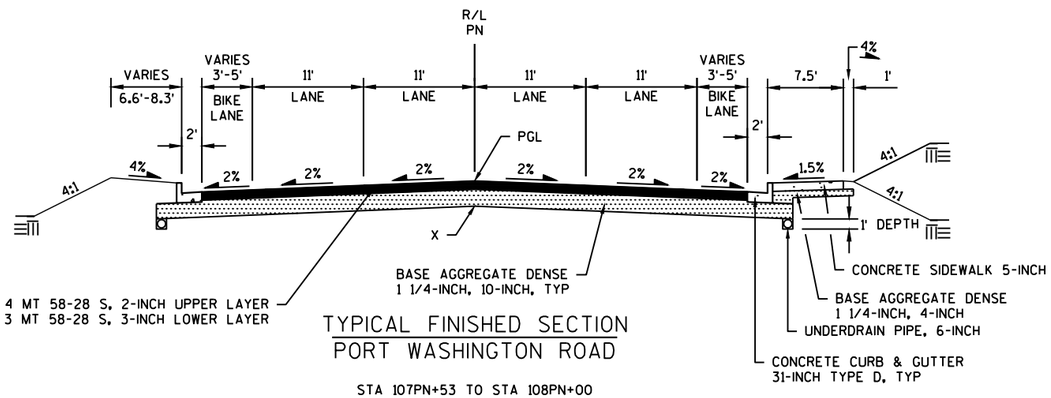
X= POINT REFERRED TO ON CROSS-SECTION

PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	TYPICAL FINISHED SECTIONS	SHEET	E



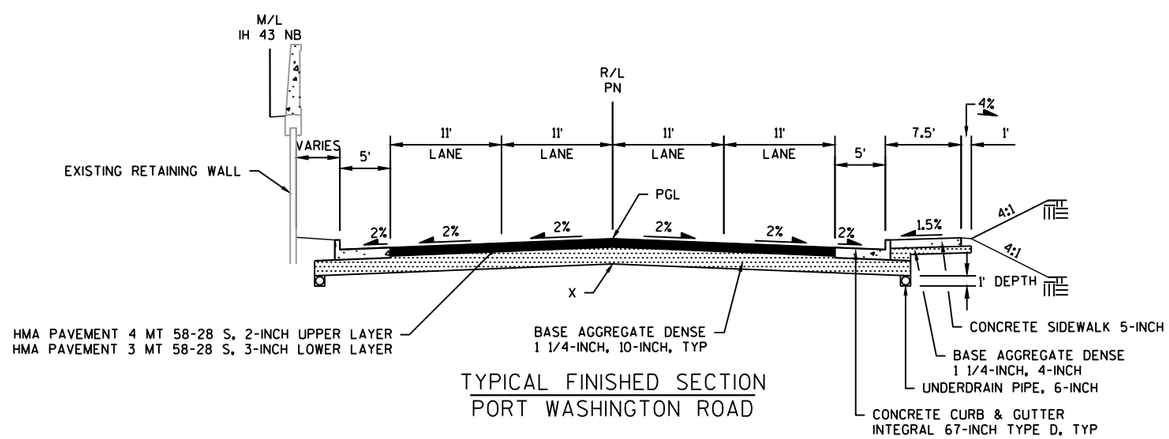
TYPICAL TEMPORARY SECTION
PORT WASHINGTON ROAD

STA 108PN+00 TO STA 113PN+75



TYPICAL FINISHED SECTION
PORT WASHINGTON ROAD

STA 107PN+53 TO STA 108PN+00



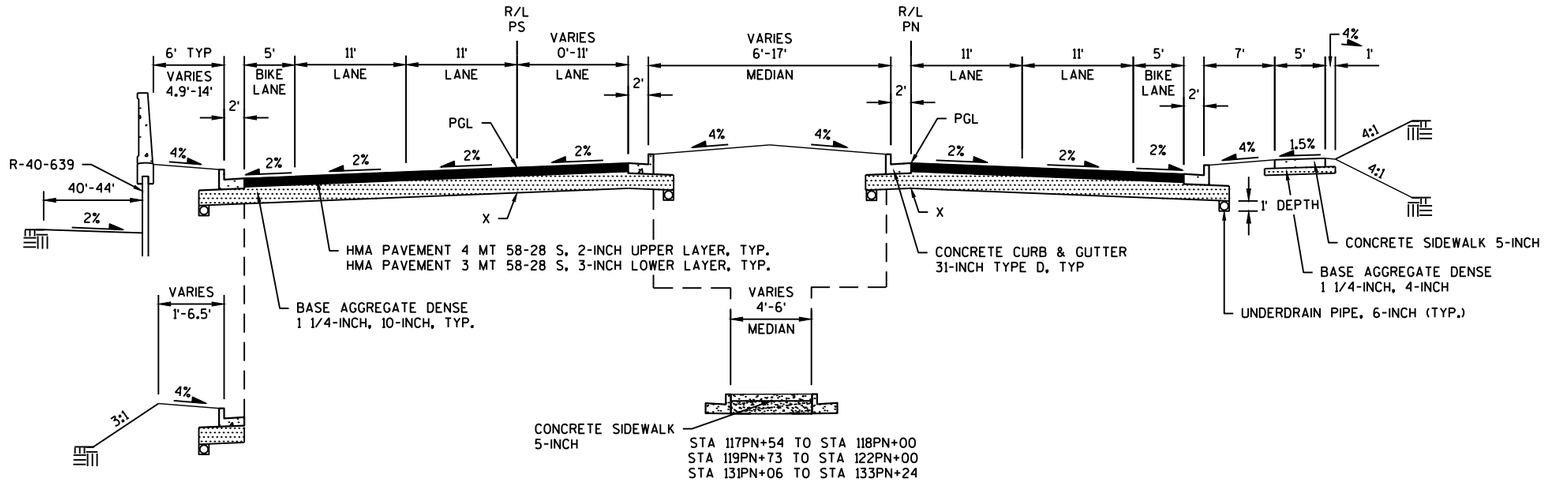
TYPICAL FINISHED SECTION
PORT WASHINGTON ROAD

STA 103PN+05 TO STA 107PN+53

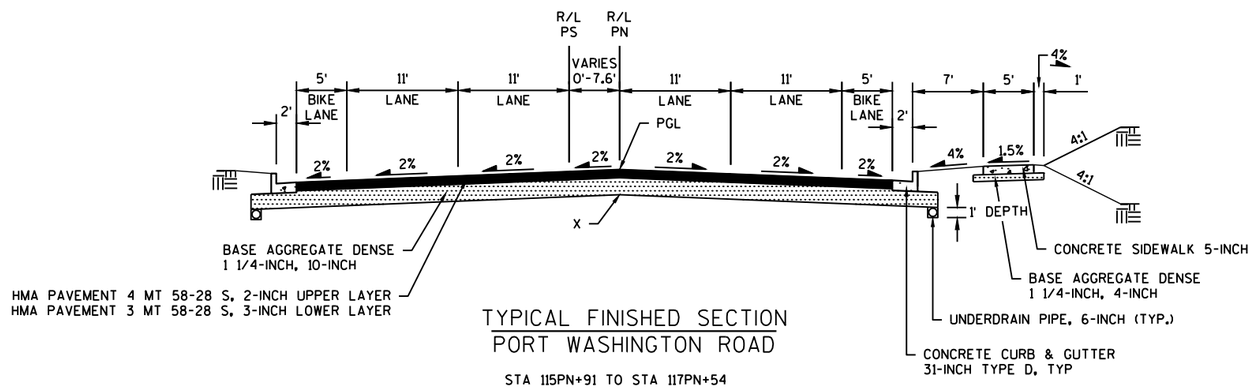
NOTES:
PGL= POINT REFERRED TO ON PROFILE

X= POINT REFERRED TO ON CROSS-SECTION

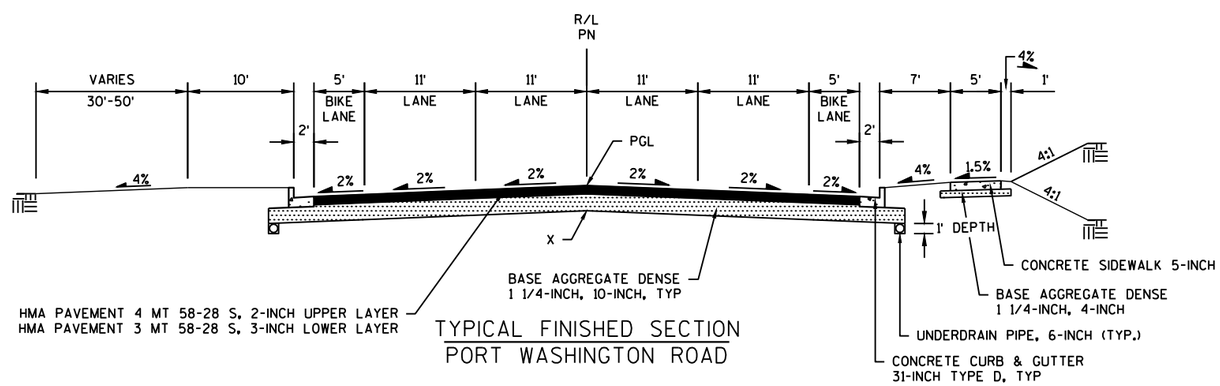
PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	TYPICAL FINISHED SECTIONS	SHEET	E



TYPICAL FINISHED SECTION
PORT WASHINGTON ROAD
STA 117PN+54 TO STA 134PN+00



TYPICAL FINISHED SECTION
PORT WASHINGTON ROAD
STA 115PN+91 TO STA 117PN+54



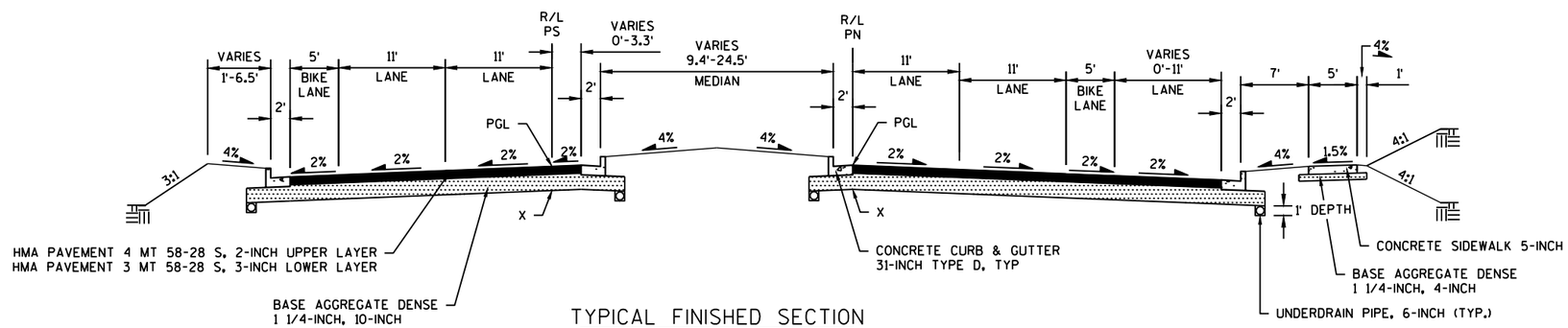
TYPICAL FINISHED SECTION
PORT WASHINGTON ROAD
STA 113PN+75 TO STA 115PN+91

NOTES:
PGL= POINT REFERRED TO ON PROFILE

X= POINT REFERRED TO ON CROSS-SECTION

PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	TYPICAL FINISHED SECTIONS	SHEET	E

2



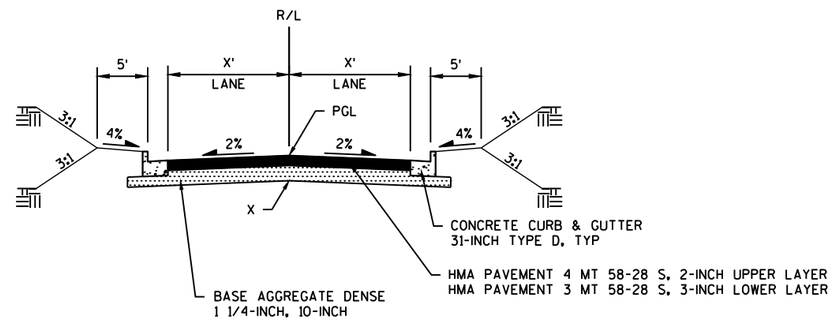
TYPICAL FINISHED SECTION
PORT WASHINGTON ROAD

STA 134PN+00 TO STA 136PN+71

NOTES:
PGL = POINT REFERRED TO ON PROFILE

X = POINT REFERRED TO ON CROSS-SECTION

PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	TYPICAL FINISHED SECTIONS	SHEET	E



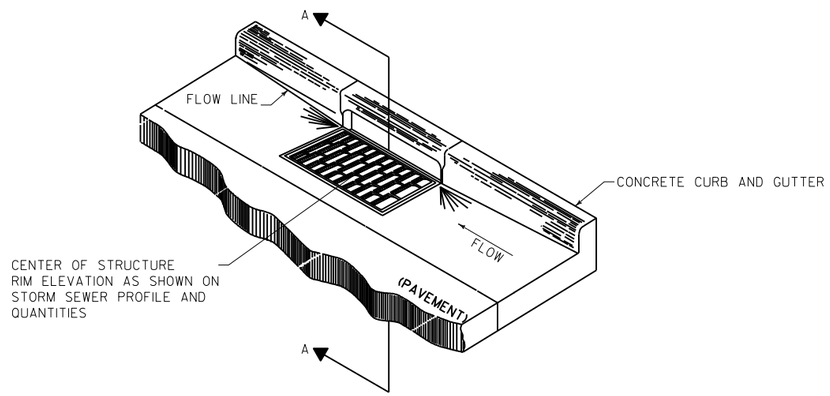
TYPICAL FINISHED SECTION
SIDE ROADS (SEE TABLE - MATCH EXISTING)

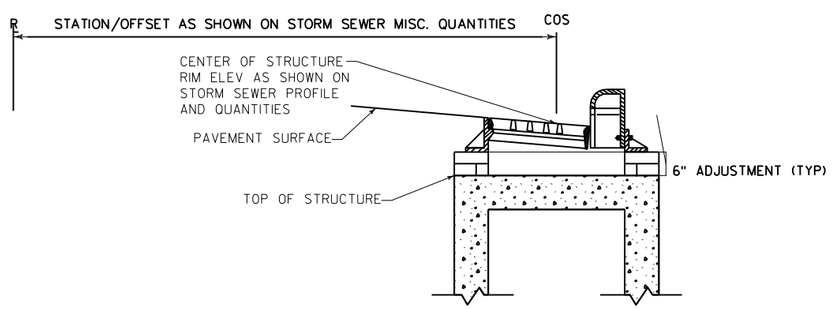
ROAD NAME	X'
KARL CAMPUS DR	14
W BRENTWOOD LN	12
W CLOVERNOOK LANE	12
W APPLE TREE ROAD	11
W DAPHNE ROAD	12

NOTES:
PGL= POINT REFERRED TO ON PROFILE

X= POINT REFERRED TO ON CROSS-SECTION

PAVEMENT SECTION SHOWN IS ASSUMED AND SUBJECT TO CHANGE.

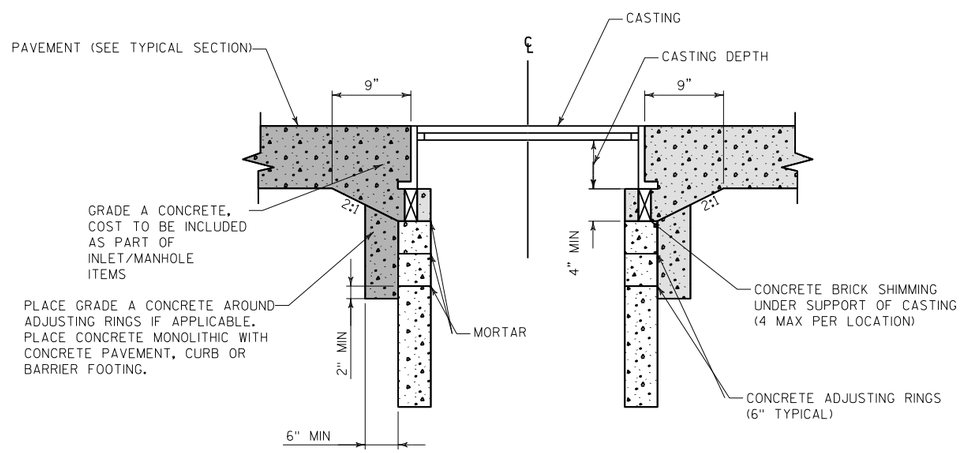




SECTION A-A

STORM SEWER STRUCTURES

STATION/OFFSET LOCATION AND RIM ELEV

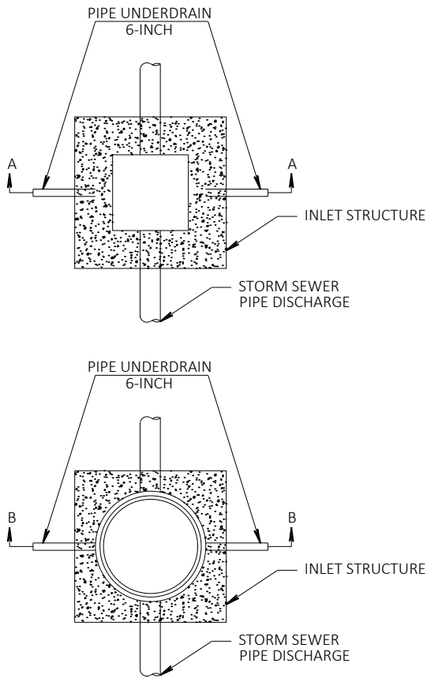


MONOLITHIC CONCRETE SHIMMING DETAIL

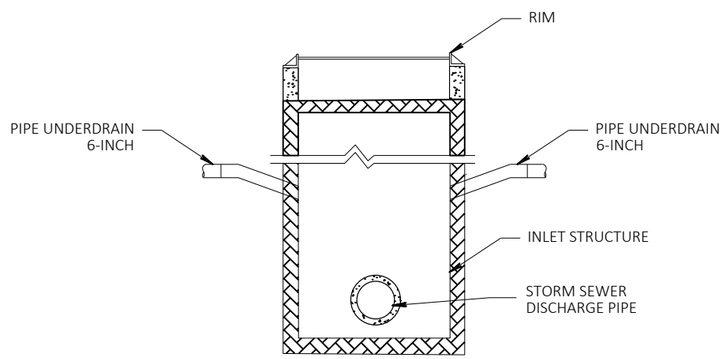
FOR FINAL ADJUSTMENT OF PAVEMENT STRUCTURES
LOCATED WITHIN THE ROADWAY

NOTES

DETAILS FOR CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS



PLAN VIEW



SECTION A-A

UNDERDRAIN OUTFALL AT INLET

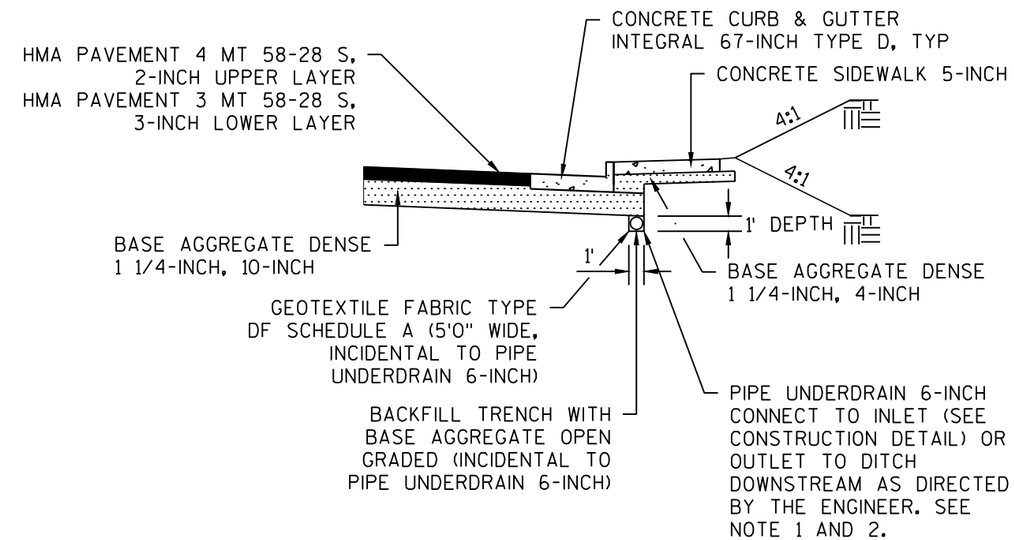
NOTES:

1. CONNECTIONS TO INLETS OR MANHOLES IN MEDIAN SHALL USE PIPE UNDERDRAIN 6-INCH.

2. PROVIDE TWO 6" DIA. OPENINGS FOR UNDERDRAIN PIPE BELOW THE RIM ELEVATION.

3. SEE TYPICAL SECTIONS, STORM SEWER, AND UNDERDRAIN PLANS FOR PIPE UNDERDRAIN LOCATIONS.

4. CORE CONNECTION FOR THE INLET DRAIN IS INCIDENTAL TO PIPE UNDERDRAIN 6-INCH.



PIPE UNDERDRAIN IN URBAN SECTIONS

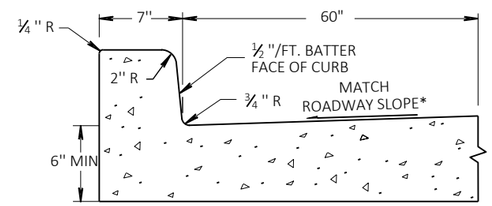
NOTES:

1. PIPE UNDERDRAIN UNPERFORATED REQUIRED AT LOCATIONS WHERE UNDERDRAIN IS REQUIRED TO CONNECT TO DITCHES OUTSIDE THE EBS AREA.

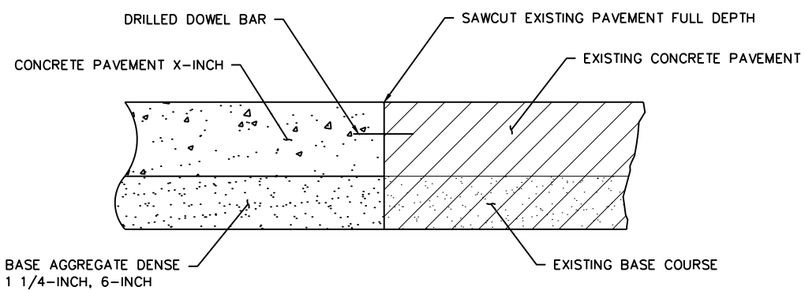
2. PIPE UNDERDRAIN UNPERFORATED REQUIRED AT LOCATIONS WHERE UNDERDRAIN IS REQUIRED TO OUTFALL IN DITCHED OPPOSITE SIDE OF THE ROAD (SEE UNDERDRAIN LATERAL CROSSING OUTLET DETAIL).

3. USE APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE AT ALL DITCH OUTFALLS OF PIPE UNDERDRAIN.

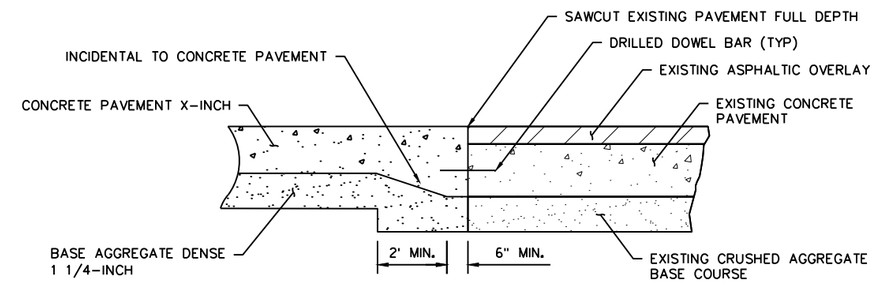
4. ADJUST LATERAL LOCATION OF PIPE UNDERDRAIN AS NECESSARY TO AVOID CONFLICTS WITH THE STORM SEWER.



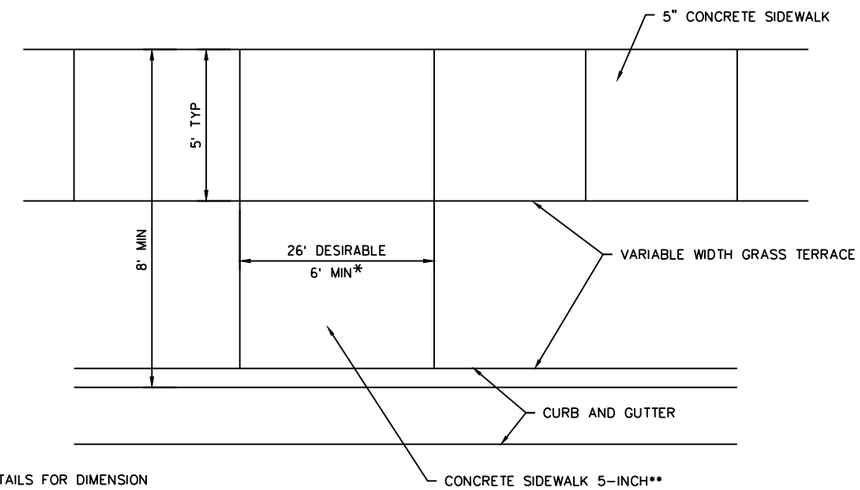
CONCRETE CURB AND GUTTER INTEGRAL 67-INCH SPECIAL



MATCH AT EXISTING CONCRETE PAVEMENT



MATCH AT EXISTING CONCRETE PAVEMENT WITH ASPHALT OVERLAY



* SEE PLAN DETAILS FOR DIMENSION

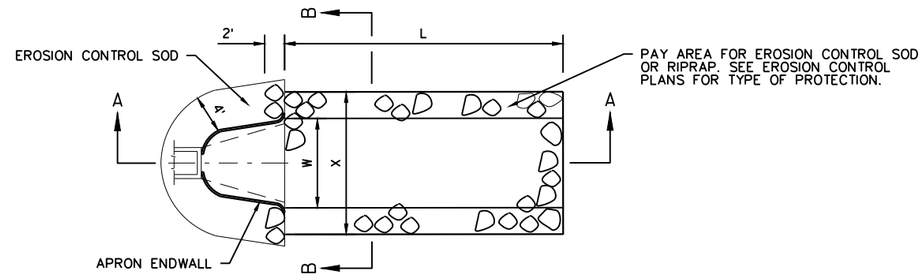
** CONCRETE SIDEWALK 6-INCH REQUIRED AT BUS SHELTER LOCATIONS

NOTES

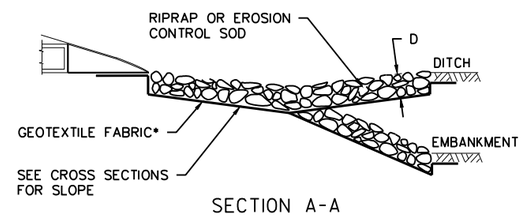
1. MAXIMUM SLOPE OF BUS STOP SHALL BE 1.5%
2. NON SLIP SURFACE REQUIRED (BROOM FINISH)

TYPICAL ADA BUS STOP

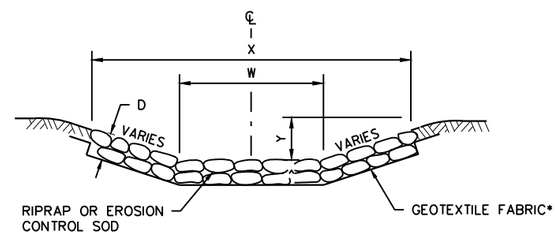
SEE PLAN DETAILS FOR ADA BUS STOP LOCATIONS



PLAN VIEW



SECTION A-A



SECTION B-B

L = 3 x W (NOR) OR 10' MIN
OR AS INDICATED IN THE PLANS
OR AS DIRECTED BY THE ENGINEER

D = 12" FOR RIPRAP LIGHT
18" FOR RIPRAP MEDIUM
24" FOR RIPRAP HEAVY

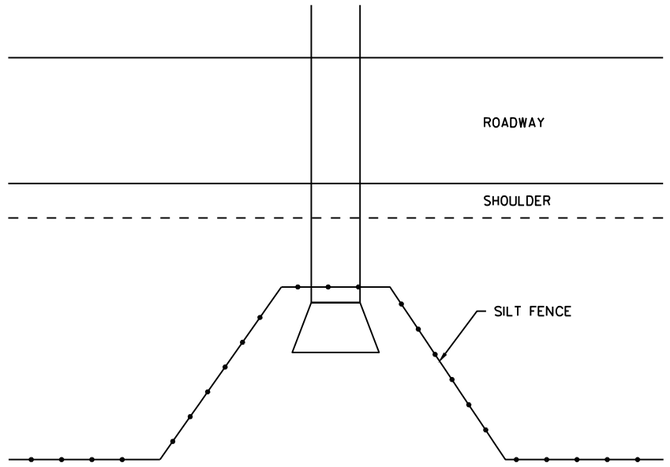
X = W+2' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
W+5' FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

Y = 0' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
12" FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

* TYPE R (FOR RIPRAP LIGHT ONLY)
TYPE HR (FOR RIPRAP HEAVY AND MEDIUM ONLY)

SOD, RIPRAP AND GEOTEXTILE FABRIC DETAIL AT APRON ENDWALLS

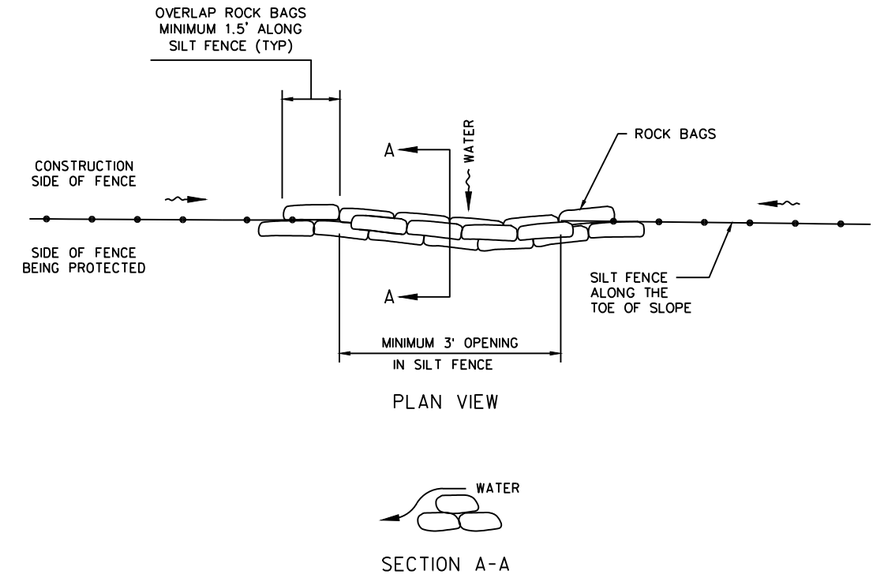
SEE EROSION CONTROL PLAN FOR LOCATIONS



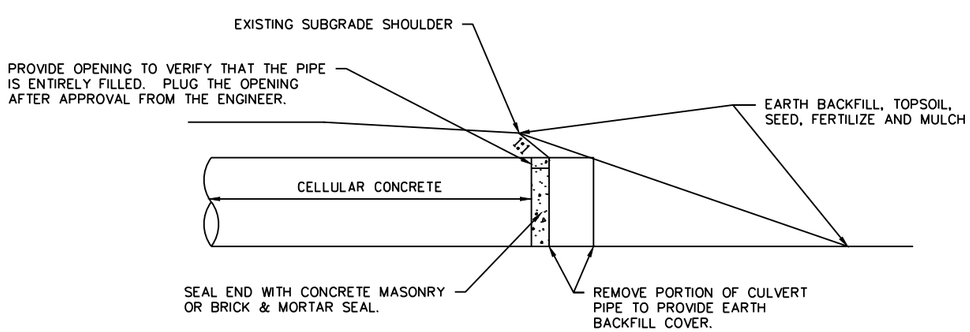
NOTE

SEE SILT FENCE SDD FOR ADDITIONAL INFORMATION.

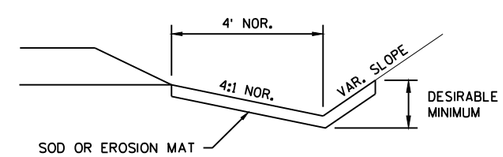
TYPICAL SILT FENCE DETAIL AT PIPE INLET



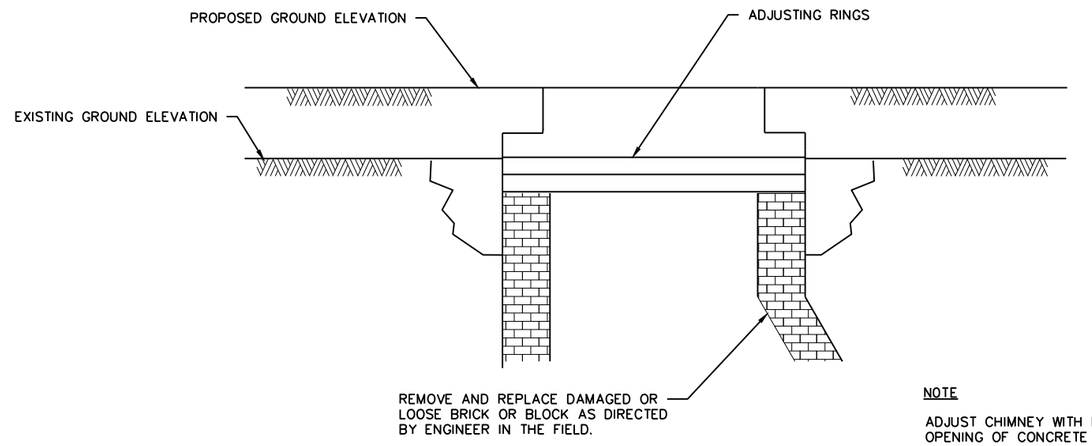
SILT FENCE DRAINAGE OUTLET, ROCK BAGS



ABANDONING SEWER DETAIL



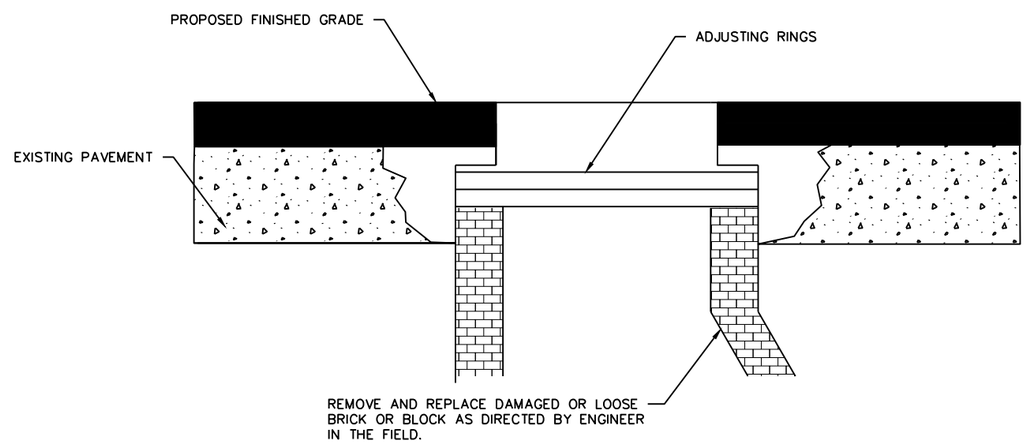
SOD OR EROSION MAT DETAIL FOR DITCHES



NON-PAVED AREA

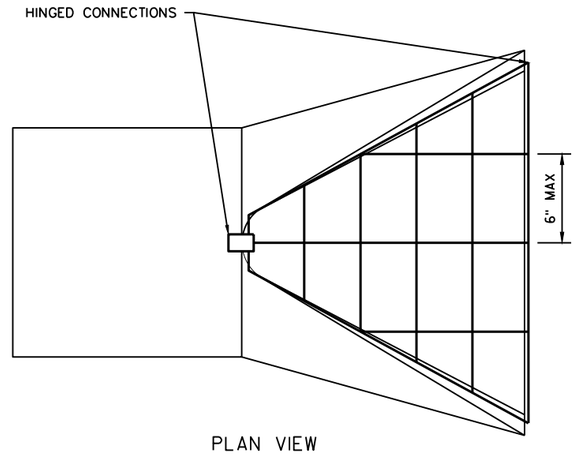
NOTE

ADJUST CHIMNEY WITH PROPER SIZE CONCRETE ADJUSTING RINGS (SIZE OF OPENING OF CONCRETE ADJUSTING RING TO BE DETERMINED BY SIZE OF OPENING IN FRAME) AND REINSTALL EXISTING FRAME AND LID TO FINISHED GRADE. (BACKFILL AND OTHER WORK TO BE DONE IN ACCORDANCE WITH ITEM ADJUSTING INLET COVER.)

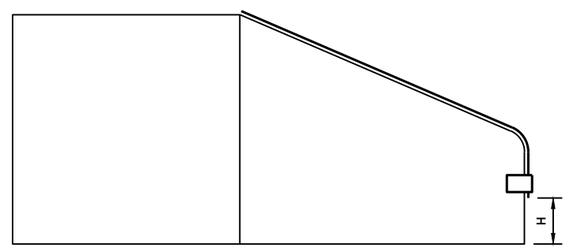


PAVED AREA

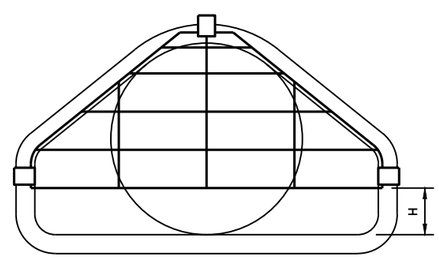
ADJUSTING MANHOLE OR INLET COVERS



PLAN VIEW



SIDE VIEW



END VIEW

PIPE GRATE

NOTE TO DESIGNERS: WHEN USING THIS DETAIL DRAWING, INCLUDE STSP 611.010

GRATE CLEARANCE HEIGHT

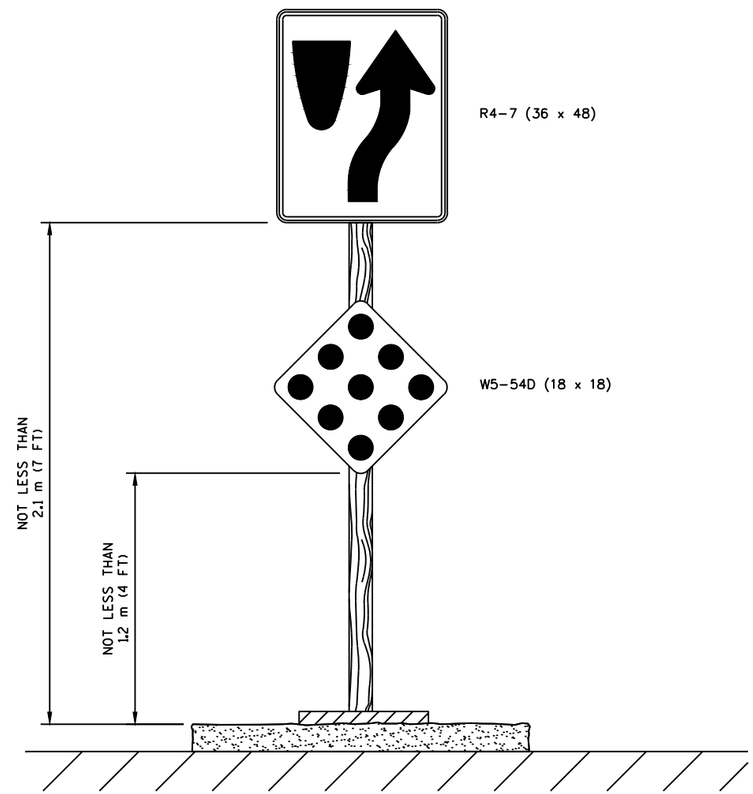
ROUND PIPE		ARCH PIPE	
PIPE SIZE	H	PIPE SIZE	H
12"	2 1/2"	22" - 29"	4"
15"	3"	36" - 44"	5"
18" - 24"	4"	51" - 65"	6"
27" - 36"	5"	73" - 85"	7"
42" - 54"	6"		
60" - 72"	7"		
78" - 90"	8"		

GRATE BAR SIZES

(STANDARD DESIGN)

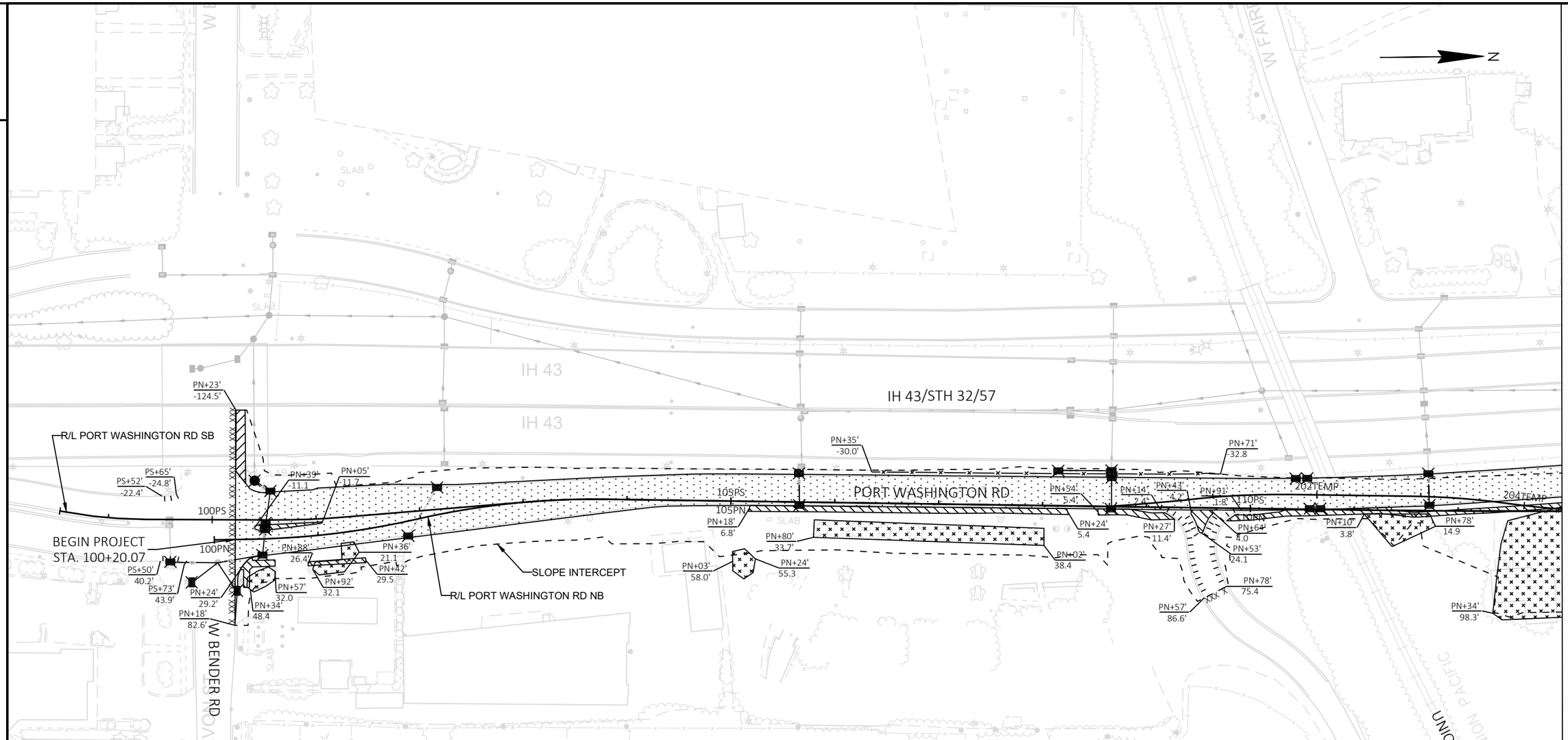
		HOLE DIAMETER REQUIRED	BOLT DIAMETER	BAR SIZE
ROUND PIPE	12" - 24"	3/4"	5/8"	5/8"
	27" - 48"	7/8"	3/4"	3/4"
	54" - 90"	1 1/8"	1"	1"
ARCH PIPE	22" - 29"	3/4"	5/8"	5/8"
	36" - 59"	7/8"	3/4"	3/4"
	65" - 85"	1 1/8"	1"	1"

BOLT LENGTH = PIPE WALL THICKNESS + 2 1/2"



TYPICAL SIGN INSTALLATION AT TRANSITION
TO DIVIDED HIGHWAY ON MEDIAN NOSE

2



LEGEND

ss	REMOVING STORM SEWER
	REMOVING INLET
	REMOVING MANHOLE
	CLEARING AND GRUBBING
	REMOVING CONCRETE PAVEMENT
	REMOVING CONCRETE SIDEWALK
	REMOVING FENCE
	REMOVING GUARDRAIL / EAT
	REMOVING CURB AND GUTTER
XXX XXX XXX XXX XXX XXX	SAWING PAVEMENT

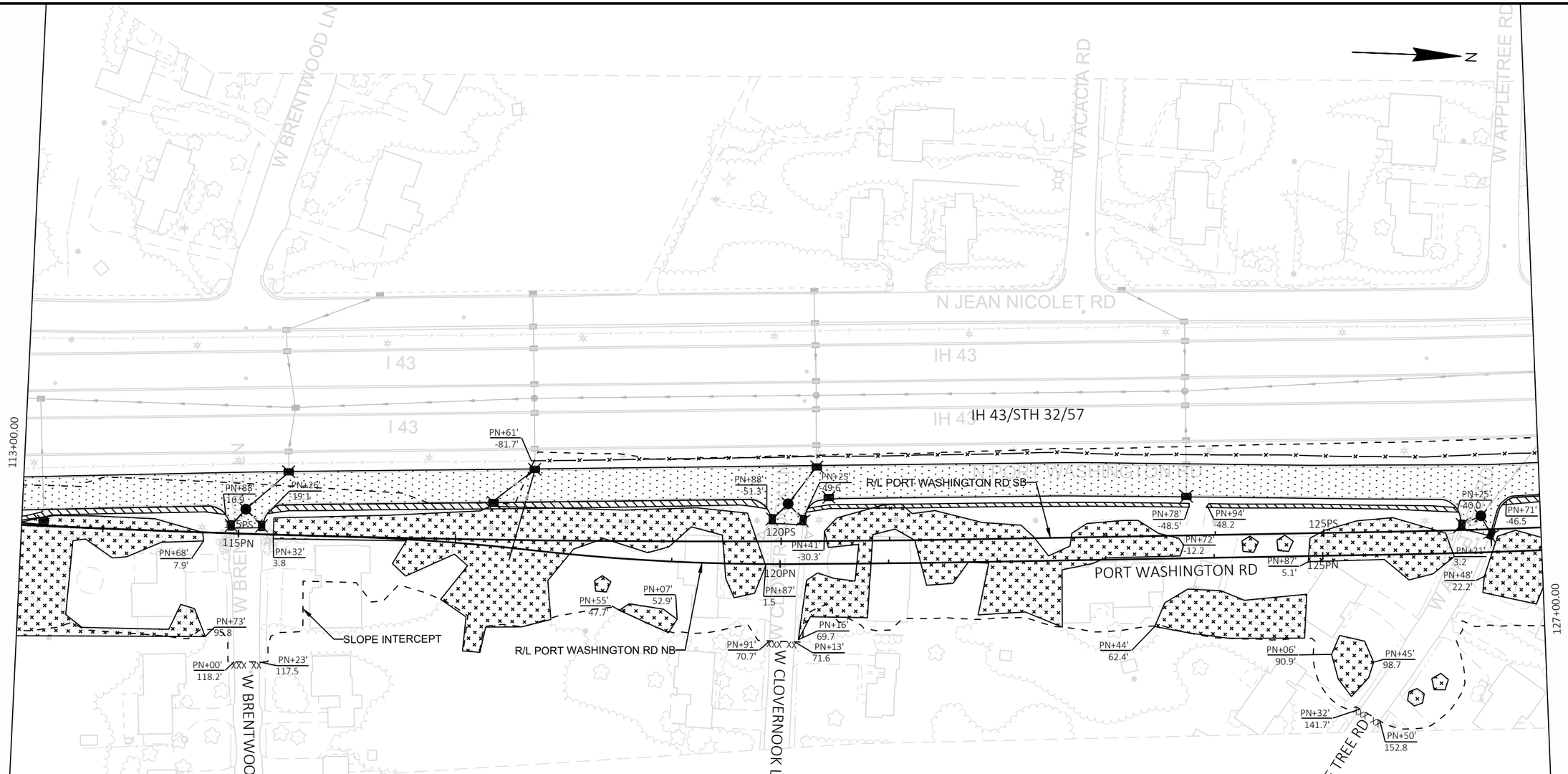
NOTE:

ALL EXISTING ASPHALT REMOVAL WILL BE PAID FOR AS EXCAVATION COMMON

2

PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET	E

2



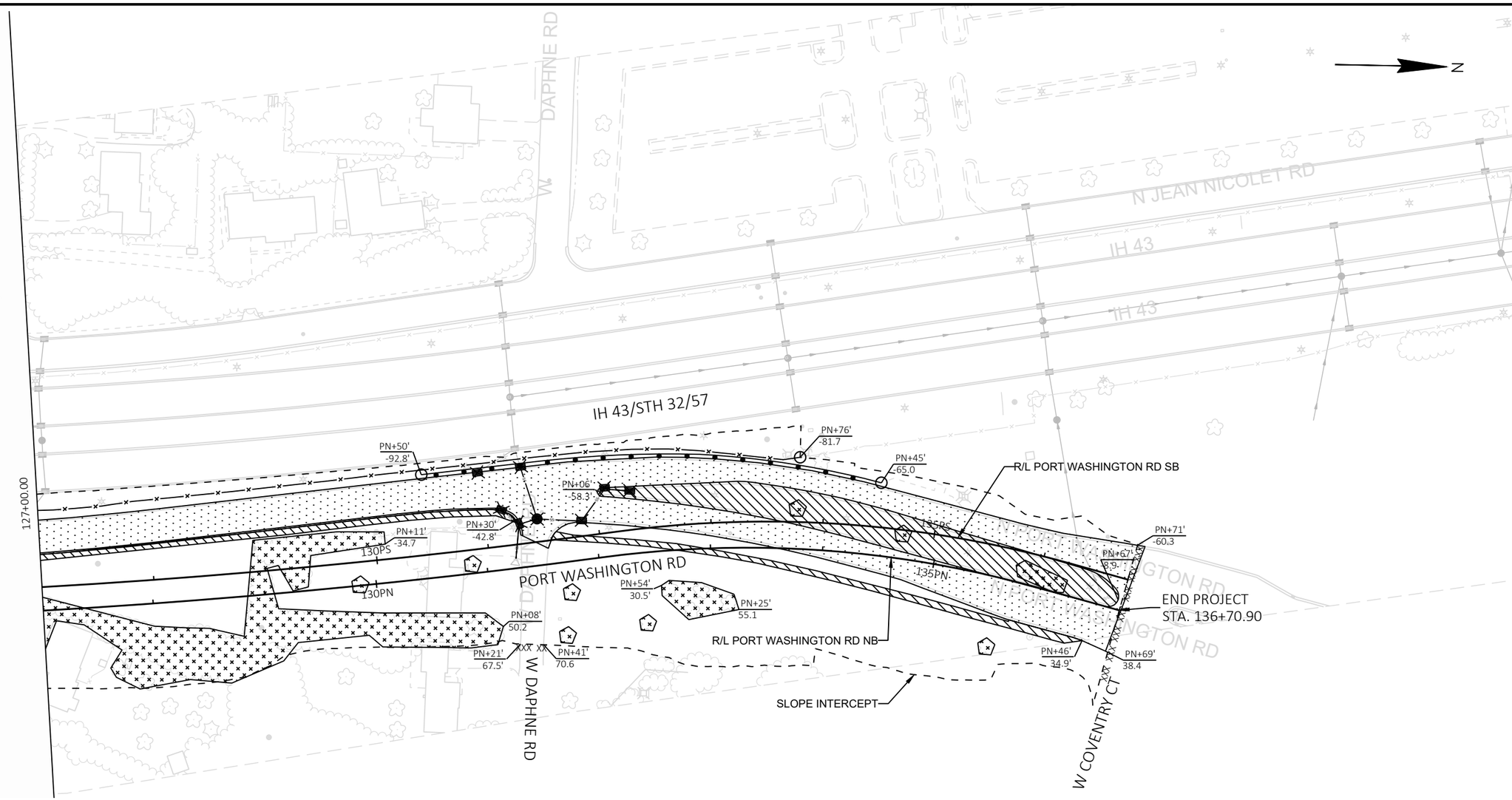
LEGEND

ss	REMOVING STORM SEWER
	REMOVING INLET
	REMOVING MANHOLE
	CLEARING AND GRUBBING
	REMOVING CONCRETE PAVEMENT
	REMOVING CONCRETE SIDEWALK
	REMOVING FENCE
	REMOVING GUARDRAIL / EAT
	REMOVING CURB AND GUTTER
XXX XXX XXX XXX XXX XXX	SAWING PAVEMENT

NOTE:

ALL EXISTING ASPHALT REMOVAL WILL BE PAID FOR AS EXCAVATION COMMON

PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET	E



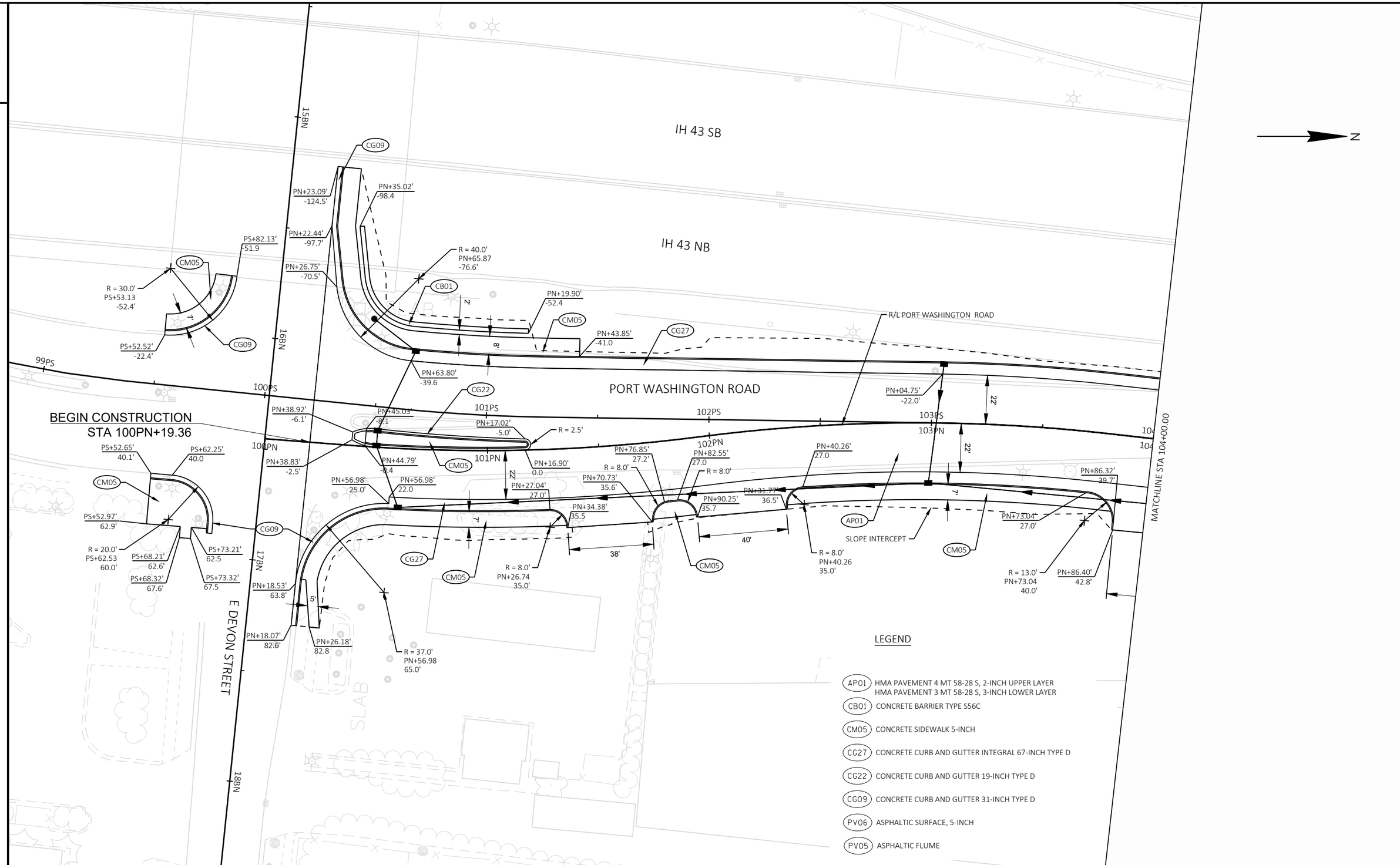
LEGEND

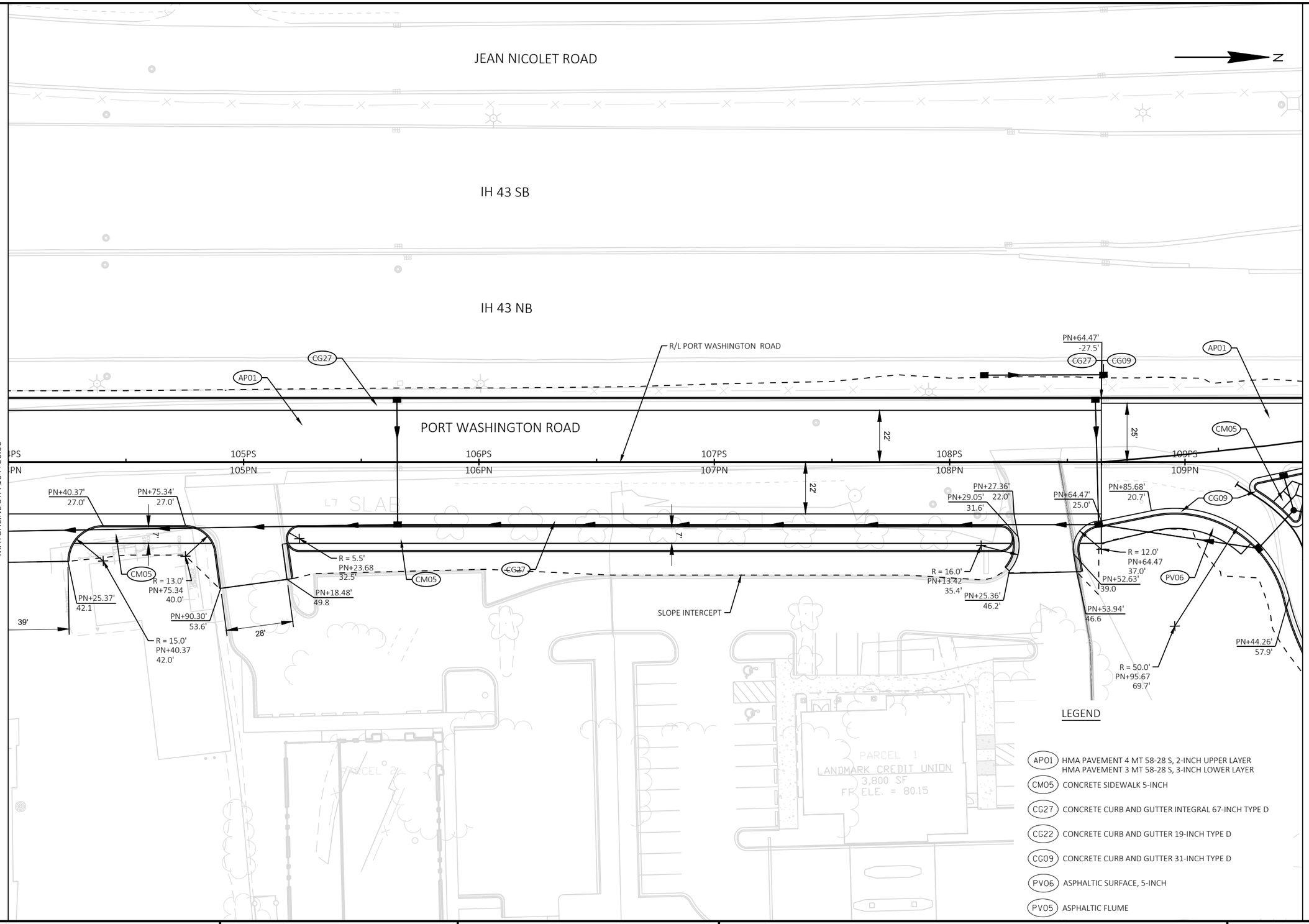
ss	REMOVING STORM SEWER
	REMOVING INLET
	REMOVING MANHOLE
	CLEARING AND GRUBBING
	REMOVING CONCRETE PAVEMENT
	REMOVING CONCRETE SIDEWALK
	REMOVING FENCE
	REMOVING GUARDRAIL / EAT
	REMOVING CURB AND GUTTER
XXX XXX XXX XXX XXX XXX	SAWING PAVEMENT

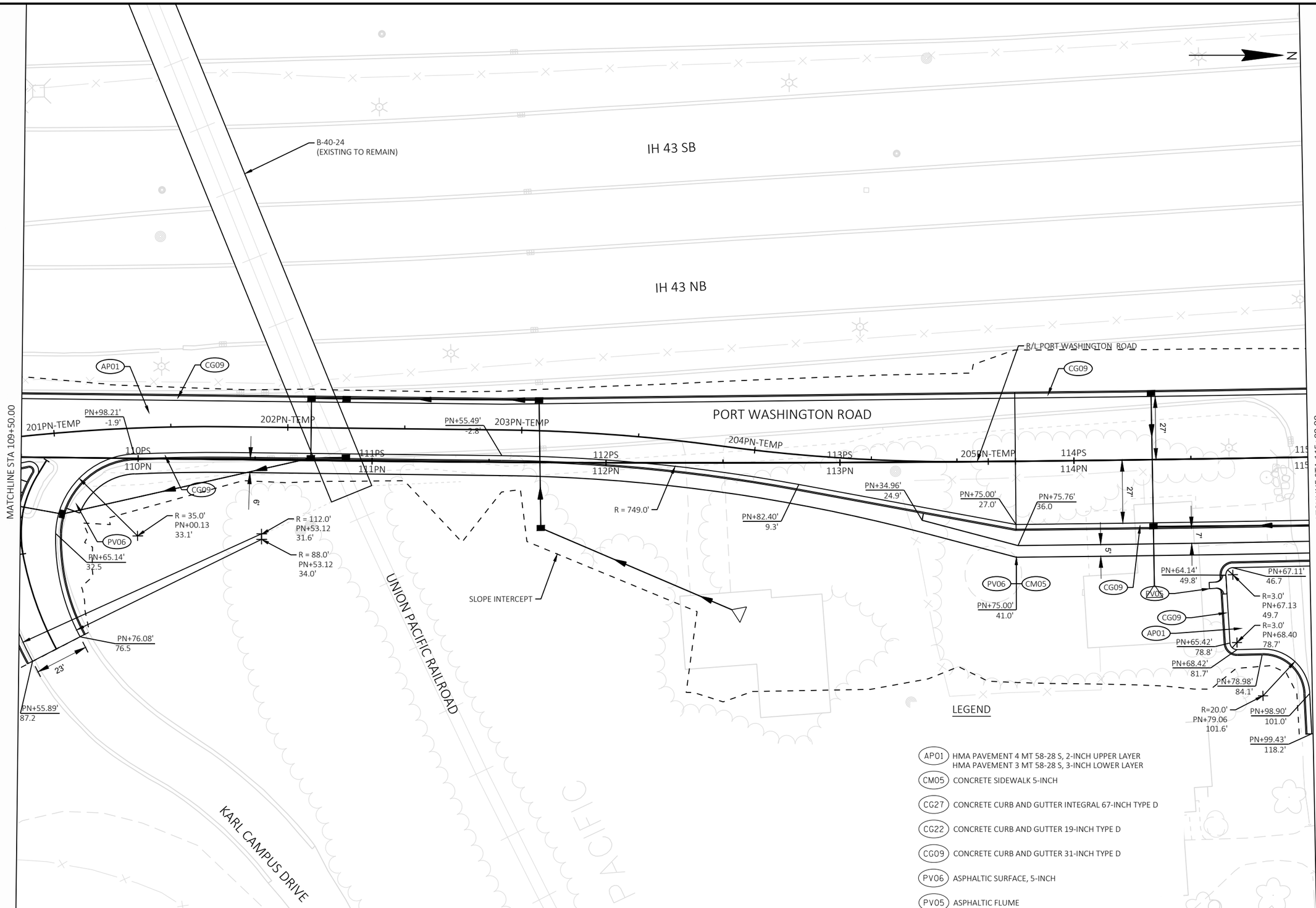
NOTE:

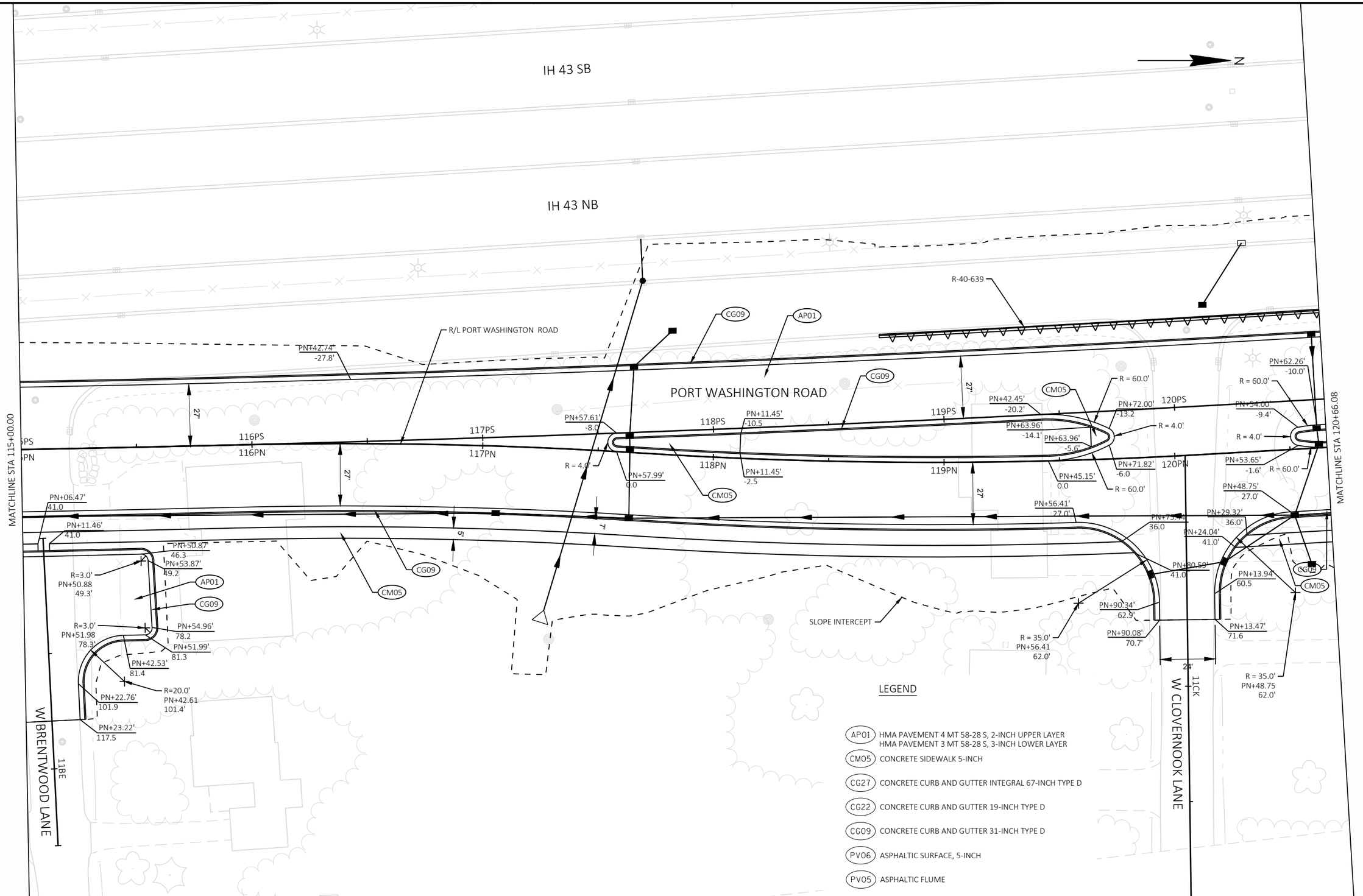
ALL EXISTING ASPHALT REMOVAL WILL BE PAID FOR AS EXCAVATION COMMON

PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET	E

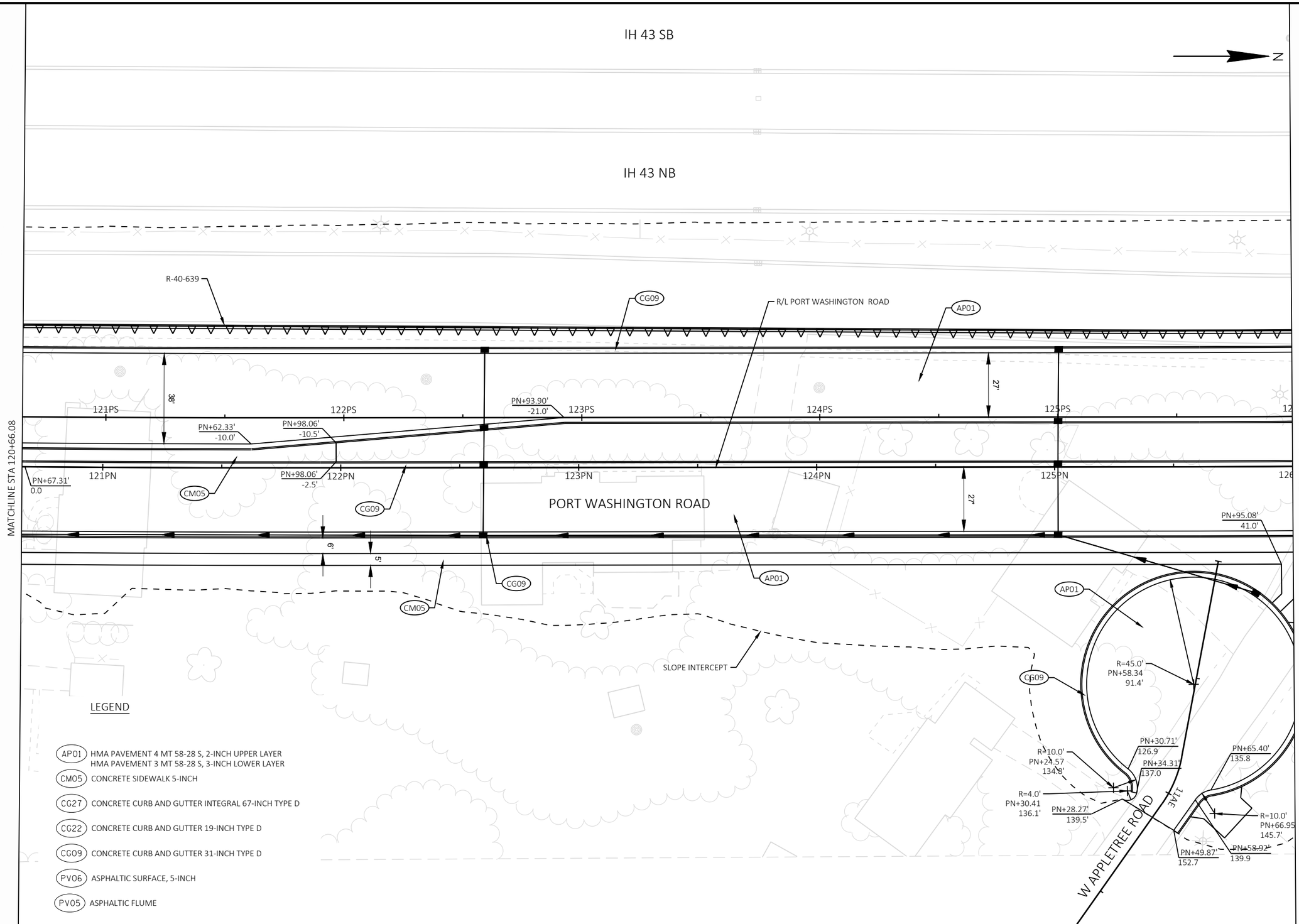

IH 43 SB
IH 43 NB
PORT WASHINGTON ROAD
E DEVON STREET
SLAB
BEGIN CONSTRUCTION
STA 100PN+19.36
MATCHLINE STA 104+00.00
R/L PORT WASHINGTON ROAD
SLOPE INTERCEPT
N
99PS
100PS
101PS
102PS
103PS
100PN
101PN
102PN
103PN
15BN
16BN
17BN
18BN
CG09
CM05
CB01
CG27
CG22
AP01
PN+23.09' -124.5'
PN+35.02' -98.4
PN+22.44' -97.7'
PN+26.75' -70.5'
PS+82.13' -51.9
R = 30.0' PS+53.13 -52.4'
PS+52.52' -22.4'
R = 40.0' PN+65.87 -76.6'
PN+19.90' -52.4
PN+43.85' -41.0
PN+63.80' -39.6
PN+04.75' -22.0'
PN+38.92' -6.1'
PN+45.03' -5.1
PN+17.02' -5.0'
R = 2.5'
PS+52.65' 40.1'
PS+62.25' 40.0
PN+38.83' -2.5'
PN+44.79' -0.4
PN+16.90' 0.0
PN+76.85' 27.2'
PN+82.55' 27.0
R = 8.0'
PN+40.26' 27.0
PN+86.32' 39.7'
PN+56.98' 25.0'
PN+56.98' 22.0
PN+27.04' 27.0'
PN+70.73' 35.6'
PN+31.77' 36.5'
PN+34.38' 35.5
PN+90.25' 35.7
PS+52.97' 62.9'
R = 20.0' PS+62.53 60.0'
PS+68.21' 62.6'
PS+68.32' 67.6'
PS+73.21' 62.5
PS+73.32' 67.5
PN+18.53' 63.8'
PN+18.07' 82.6'
PN+26.18' 82.8
R = 37.0' PN+56.98 65.0'
R = 8.0' PN+26.74 35.0'
R = 8.0' PN+40.26 35.0'
PN+73.04' 27.0'
R = 13.0' PN+73.04 40.0'
PN+86.40' 42.8'
22'
8'
2'
7'
5'
38'
40'
LEGEND
AP01 HMA PAVEMENT 4 MT 58-28 S, 2-INCH UPPER LAYER
HMA PAVEMENT 3 MT 58-28 S, 3-INCH LOWER LAYER
CB01 CONCRETE BARRIER TYPE S56C
CM05 CONCRETE SIDEWALK 5-INCH
CG27 CONCRETE CURB AND GUTTER INTEGRAL 67-INCH TYPE D
CG22 CONCRETE CURB AND GUTTER 19-INCH TYPE D
CG09 CONCRETE CURB AND GUTTER 31-INCH TYPE D
PV06 ASPHALTIC SURFACE, 5-INCH
PV05 ASPHALTIC FLUME


JEAN NICOLET ROAD
N
IH 43 SB
IH 43 NB
R/L PORT WASHINGTON ROAD
PN+64.47'
-27.5'
CG27
CG09
AP01
CG27
AP01
PORT WASHINGTON ROAD
22'
25'
CM05
MATCHLINE STA 104+00.00
MATCHLINE STA 109+50.00
105PS
105PN
106PS
106PN
107PS
107PN
108PS
108PN
109PS
109PN
22'
PN+40.37'
27.0'
PN+75.34'
27.0'
PN+27.36'
PN+29.05'
22.0'
31.6'
PN+64.47'
25.0'
PN+85.68'
20.7'
CG09
7'
7'
R = 5.5'
PN+23.68
32.5'
CM05
CG27
R = 16.0'
PN+13.42
35.4'
R = 12.0'
PN+64.47
37.0'
PN+52.63'
39.0
PV06
CM05
R = 13.0'
PN+75.34
40.0'
PN+25.37'
42.1
PN+18.48'
49.8
PN+25.36'
46.2'
PN+53.94'
46.6
PN+90.30'
53.6'
39'
28'
SLOPE INTERCEPT
R = 15.0'
PN+40.37
42.0'
PN+44.26'
57.9'
R = 50.0'
PN+95.67
69.7'
PARCEL 1
LANDMARK CREDIT UNION
3,800 SF
FF ELE. = 80.15
LEGEND
AP01 HMA PAVEMENT 4 MT 58-28 S, 2-INCH UPPER LAYER
HMA PAVEMENT 3 MT 58-28 S, 3-INCH LOWER LAYER
CM05 CONCRETE SIDEWALK 5-INCH
CG27 CONCRETE CURB AND GUTTER INTEGRAL 67-INCH TYPE D
CG22 CONCRETE CURB AND GUTTER 19-INCH TYPE D
CG09 CONCRETE CURB AND GUTTER 31-INCH TYPE D
PV06 ASPHALTIC SURFACE, 5-INCH
PV05 ASPHALTIC FLUME

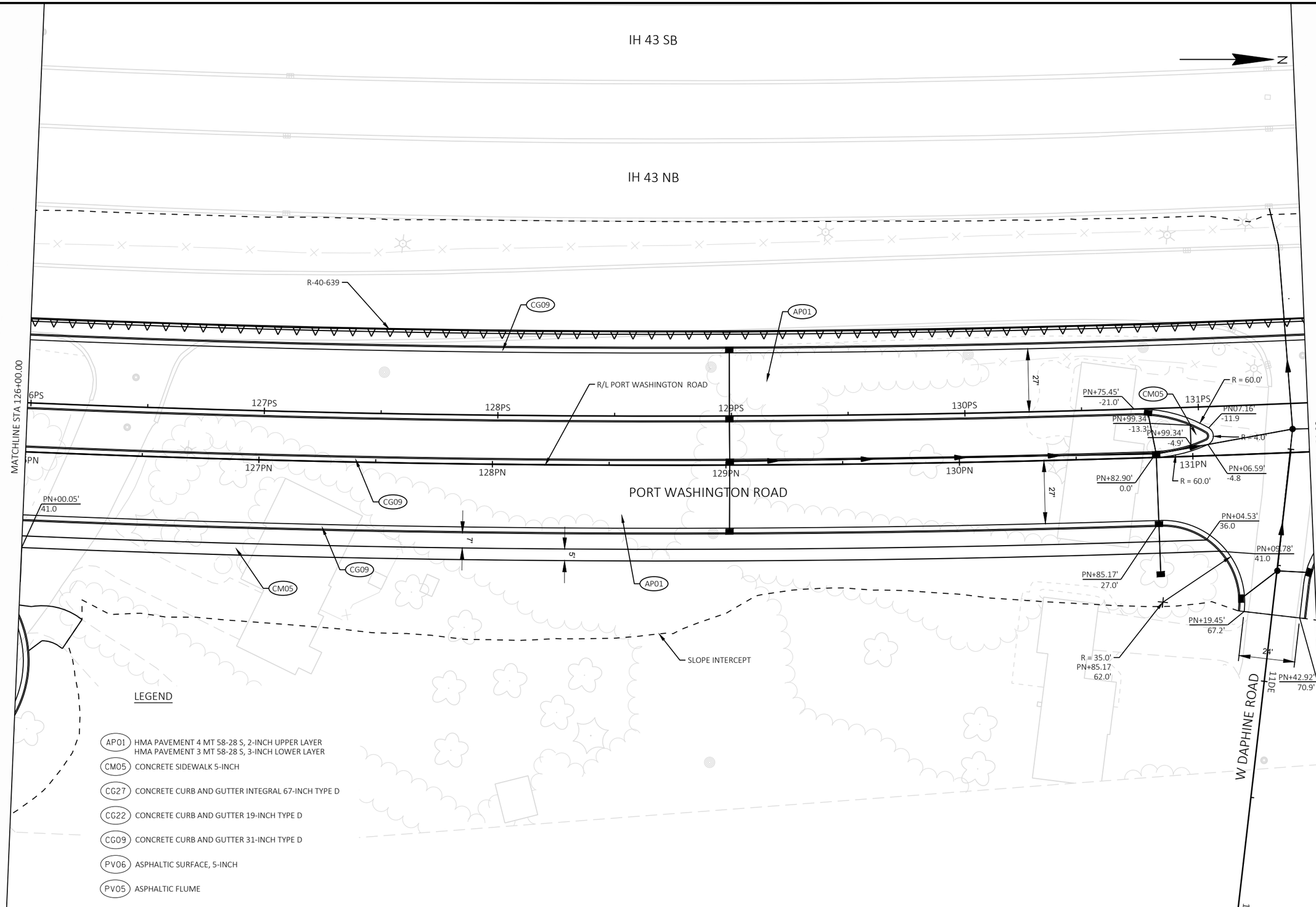

N
IH 43 SB
IH 43 NB
B-40-24
(EXISTING TO REMAIN)
R/L PORT WASHINGTON ROAD
PORT WASHINGTON ROAD
MATCHLINE STA 109+50.00
MATCHLINE STA 115+00.00
AP01
CG09
201PN-TEMP
PN+98.21'
-1.9'
202PN-TEMP
PN+55.49'
-2.8'
203PN-TEMP
204PN-TEMP
205PN-TEMP
110PS
110PN
111PS
111PN
112PS
112PN
113PS
113PN
114PS
114PN
27'
6'
R = 35.0'
PN+00.13
33.1'
PV06
PN+65.14'
32.5
R = 112.0'
PN+53.12
31.6'
R = 88.0'
PN+53.12
34.0'
R = 749.0'
PN+82.40'
9.3'
PN+34.96'
24.9'
PN+75.00'
27.0'
PN+75.76'
36.0
SLOPE INTERCEPT
UNION PACIFIC RAILROAD
PN+76.08'
76.5
23'
PN+55.89'
87.2
KARL CAMPUS DRIVE
PACIFIC
CM05
PN+75.00'
41.0'
PV05
PN+64.14'
49.8'
PN+67.11'
46.7
R=3.0'
PN+67.13
49.7
R=3.0'
PN+68.40
78.7'
PN+65.42'
78.8'
PN+68.42'
81.7'
PN+78.98'
84.1'
R=20.0'
PN+79.06
101.6'
PN+98.90'
101.0'
PN+99.43'
118.2'
LEGEND
AP01 HMA PAVEMENT 4 MT 58-28 S, 2-INCH UPPER LAYER
HMA PAVEMENT 3 MT 58-28 S, 3-INCH LOWER LAYER
CM05 CONCRETE SIDEWALK 5-INCH
CG27 CONCRETE CURB AND GUTTER INTEGRAL 67-INCH TYPE D
CG22 CONCRETE CURB AND GUTTER 19-INCH TYPE D
CG09 CONCRETE CURB AND GUTTER 31-INCH TYPE D
PV06 ASPHALTIC SURFACE, 5-INCH
PV05 ASPHALTIC FLUME



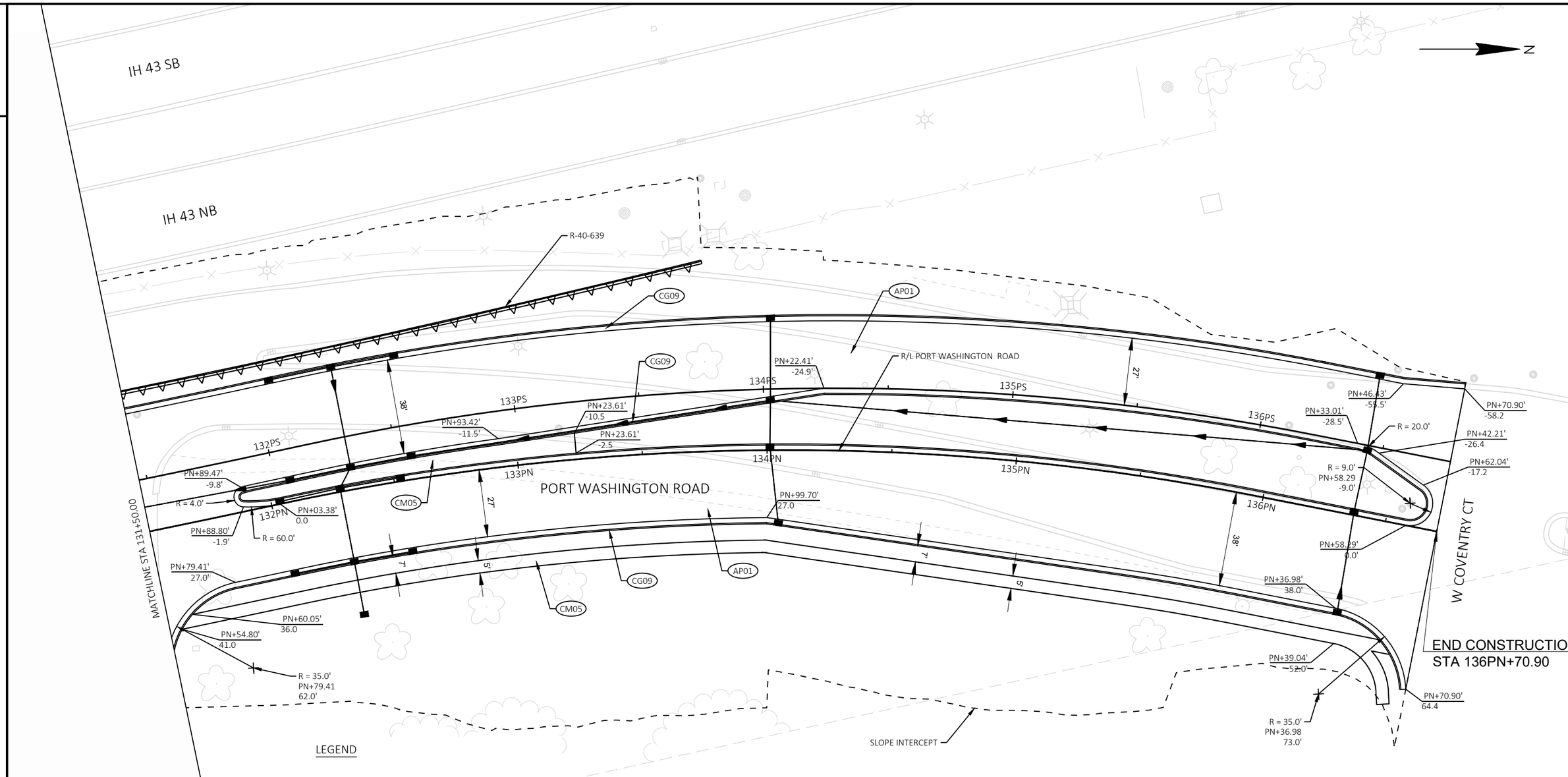
PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET	E



PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET	E

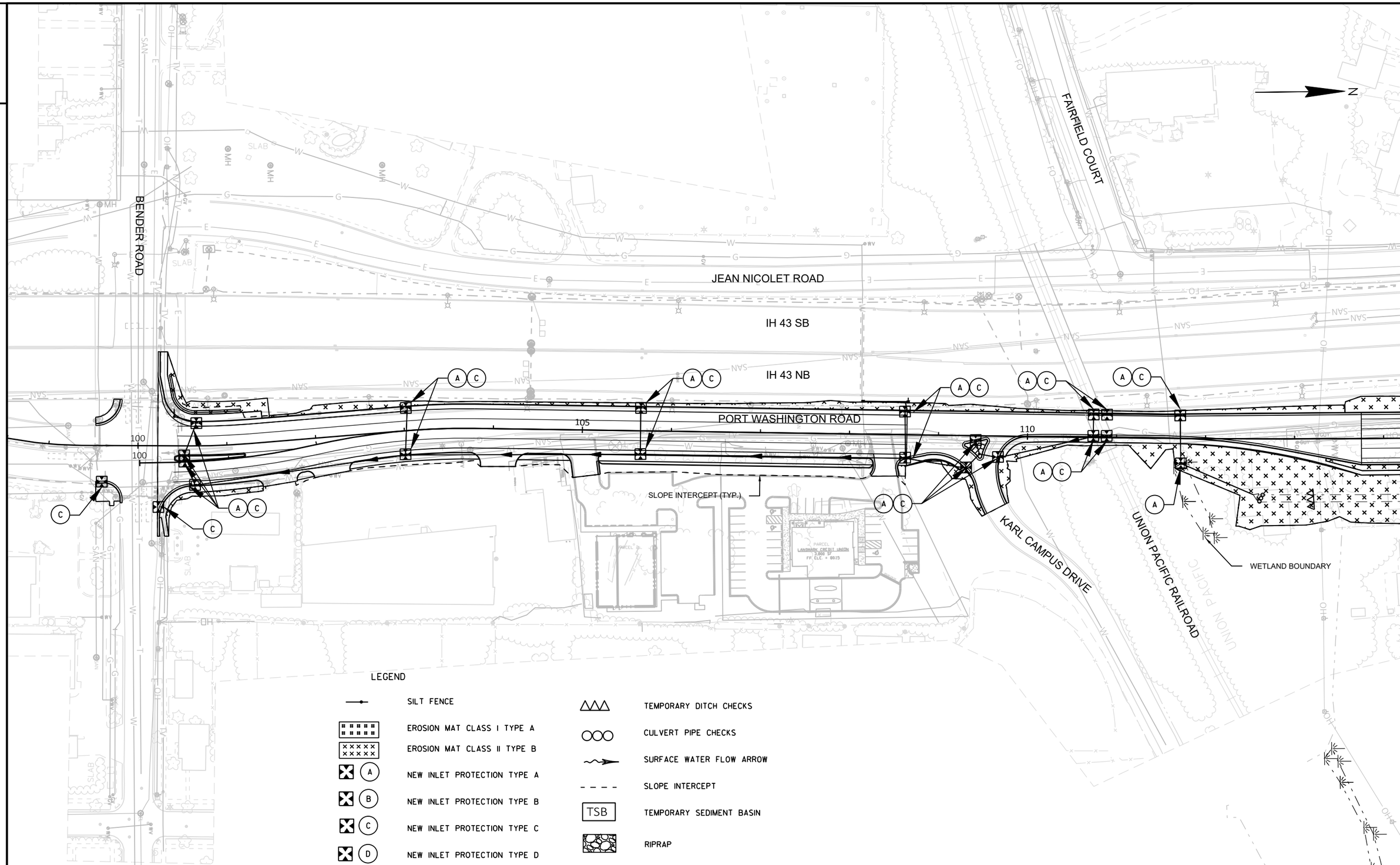


PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET	E



LEGEND

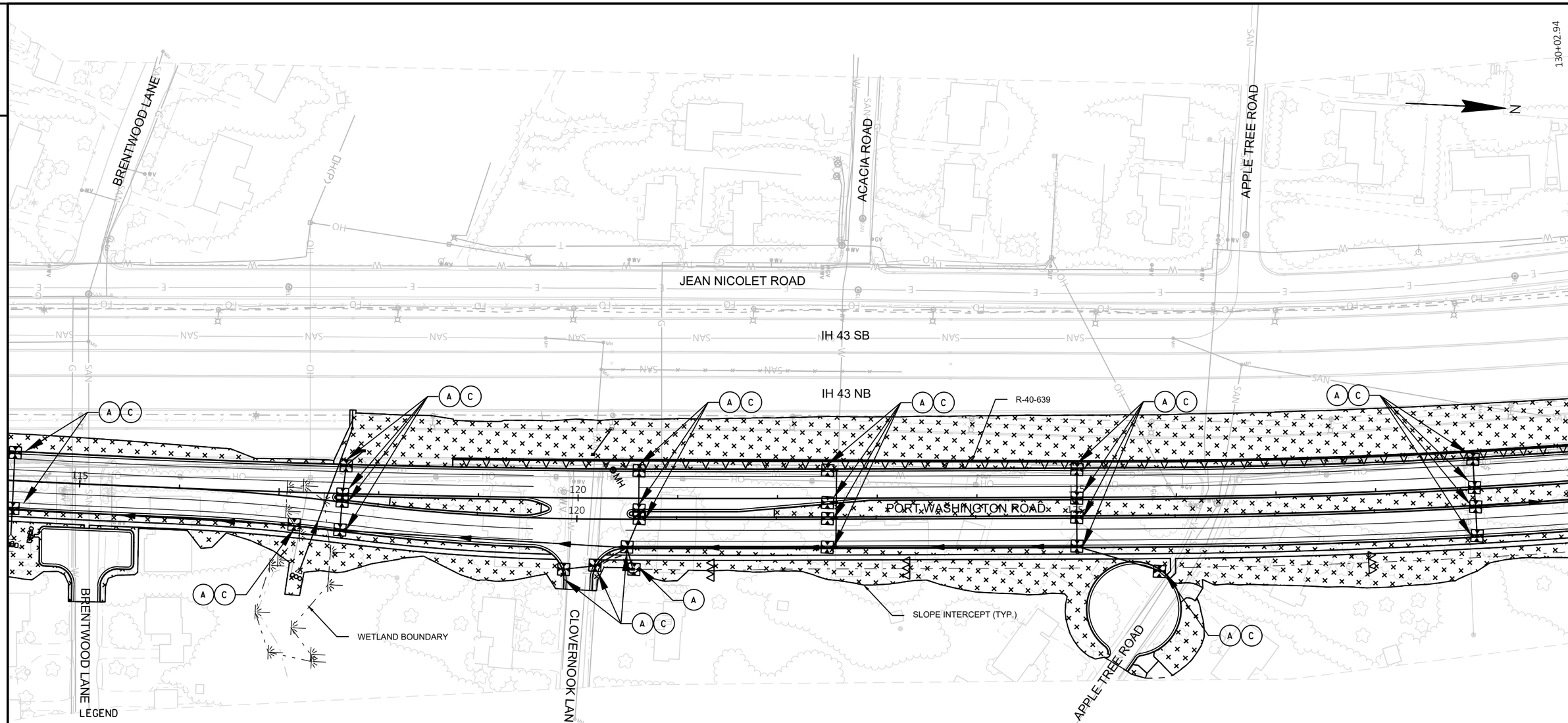
AP01	HMA PAVEMENT 4 MT 58-28 S, 2-INCH UPPER LAYER HMA PAVEMENT 3 MT 58-28 S, 3-INCH LOWER LAYER
CM05	CONCRETE SIDEWALK 5-INCH
CG27	CONCRETE CURB AND GUTTER INTEGRAL 67-INCH TYPE D
CG22	CONCRETE CURB AND GUTTER 19-INCH TYPE D
CG09	CONCRETE CURB AND GUTTER 31-INCH TYPE D
PV06	ASPHALTIC SURFACE, 5-INCH
PV05	ASPHALTIC FLUME



PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET	E

FILE NAME : C:\CADDLIB\PW\CRKASTEN\GREATLAKES\D0256189\022001_EC_PW.DWG
LAYOUT NAME - _001
PLOT DATE : 11/30/2020 1:29 PM
PLOT BY : CECELIA KASTEN
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2



2

LEGEND

- SILT FENCE
- EROSION MAT CLASS I TYPE A
- EROSION MAT CLASS II TYPE B
- NEW INLET PROTECTION TYPE A
- NEW INLET PROTECTION TYPE B
- NEW INLET PROTECTION TYPE C
- NEW INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW ARROW
- SLOPE INTERCEPT
- TSB — TEMPORARY SEDIMENT BASIN
- RIPRAP

PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET	E

FILE NAME : C:\CADDLIB\PW\CRKASTEN\GREATLAKES\D0256189\022001_EC_PW.DWG
LAYOUT NAME - _002
PLOT DATE : 11/30/2020 1:30 PM
PLOT BY : CECELIA KASTEN
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2

2

APPLE TREE ROAD

DAPHNE ROAD

JEAN NICOLET ROAD

IH 43 SB

IH 43 NB

R-40-639

PORT WASHINGTON ROAD

130

130

135

135

SLOPE INTERCEPT (TYP.)

DAPHNE ROAD

COVENTRY COURT

N

LEGEND

SILT FENCE

EROSION MAT CLASS I TYPE A

EROSION MAT CLASS II TYPE B

NEW INLET PROTECTION TYPE A

NEW INLET PROTECTION TYPE B

NEW INLET PROTECTION TYPE C

NEW INLET PROTECTION TYPE D

TEMPORARY DITCH CHECKS

CULVERT PIPE CHECKS

SURFACE WATER FLOW ARROW

SLOPE INTERCEPT

TSB TEMPORARY SEDIMENT BASIN

RIPRAP

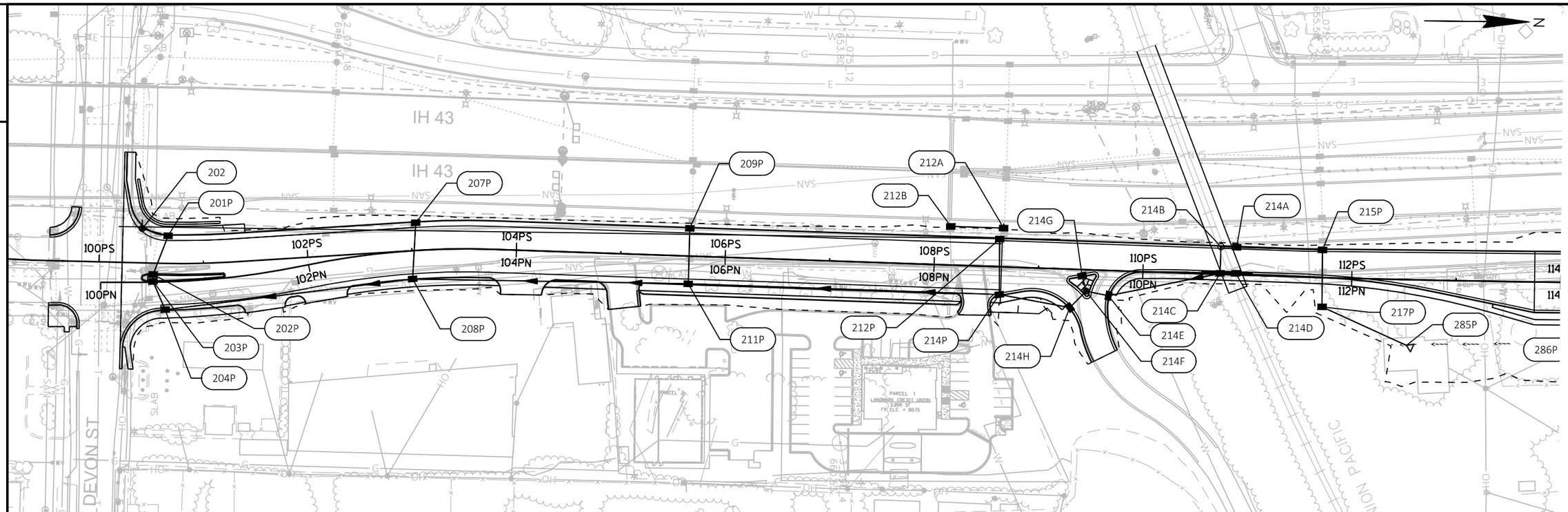
130+02.94

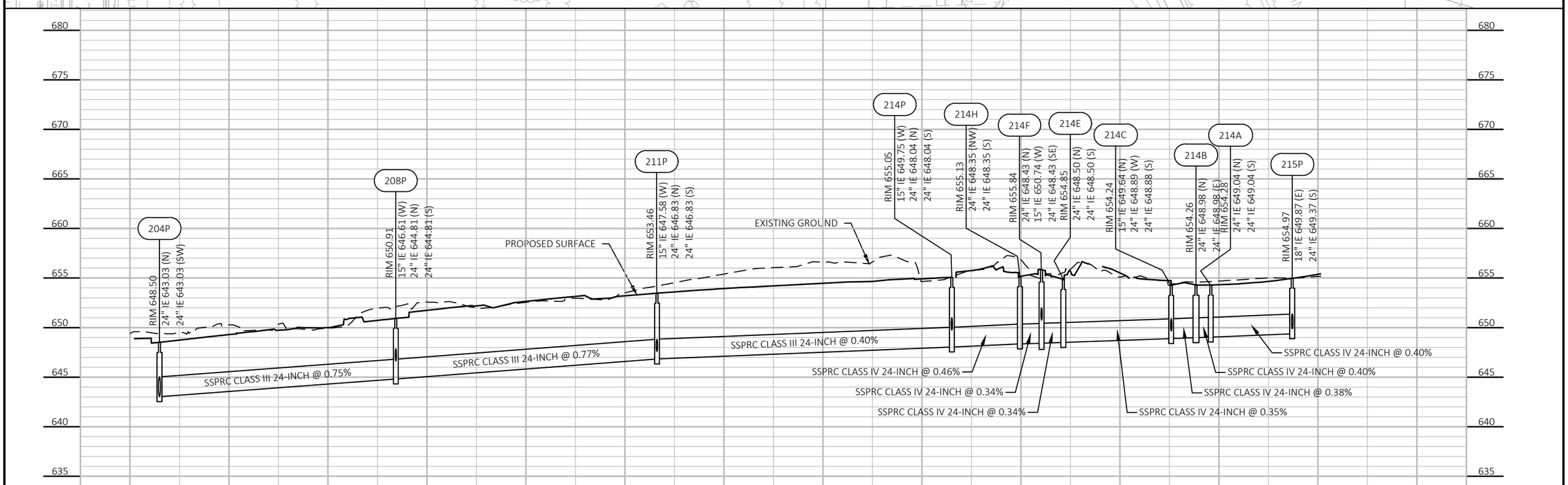
PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET	E

FILE NAME : C:\CADDLIB\PW\CRKASTEN\GREATLAKES\D0256189\022001_EC_PW.DWG
LAYOUT NAME - _003

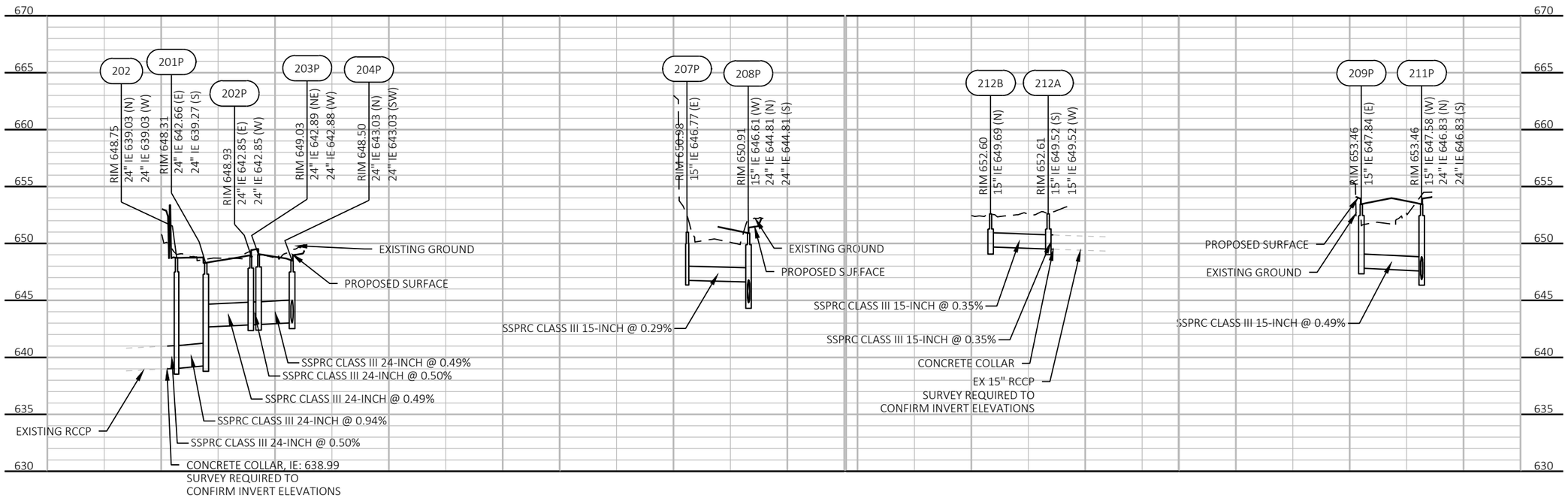
PLOT DATE : 11/30/2020 1:31 PM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:100 FT

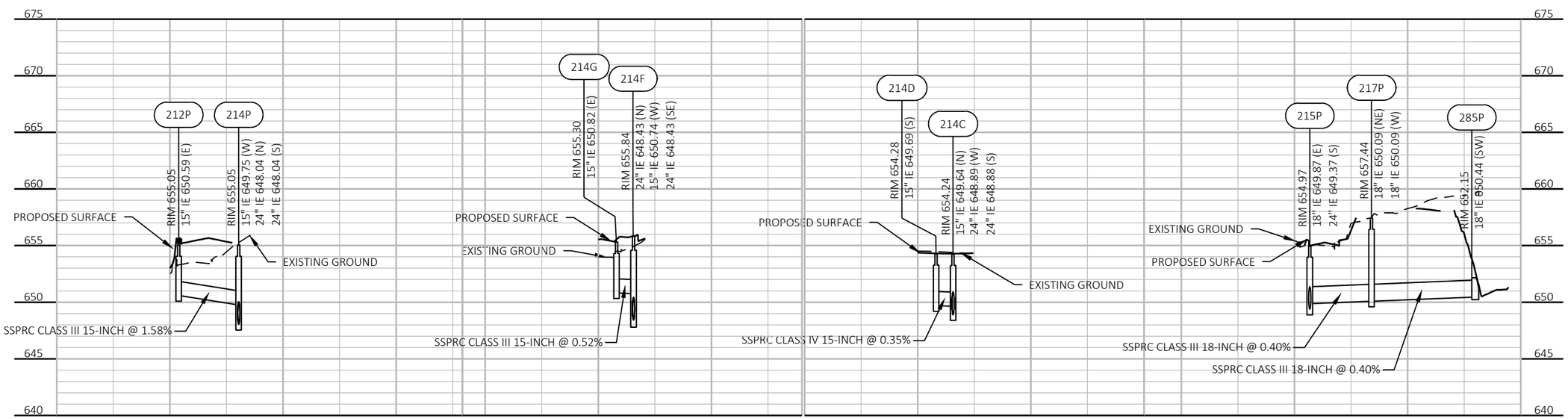
WISDOT/CADDS SHEET 42



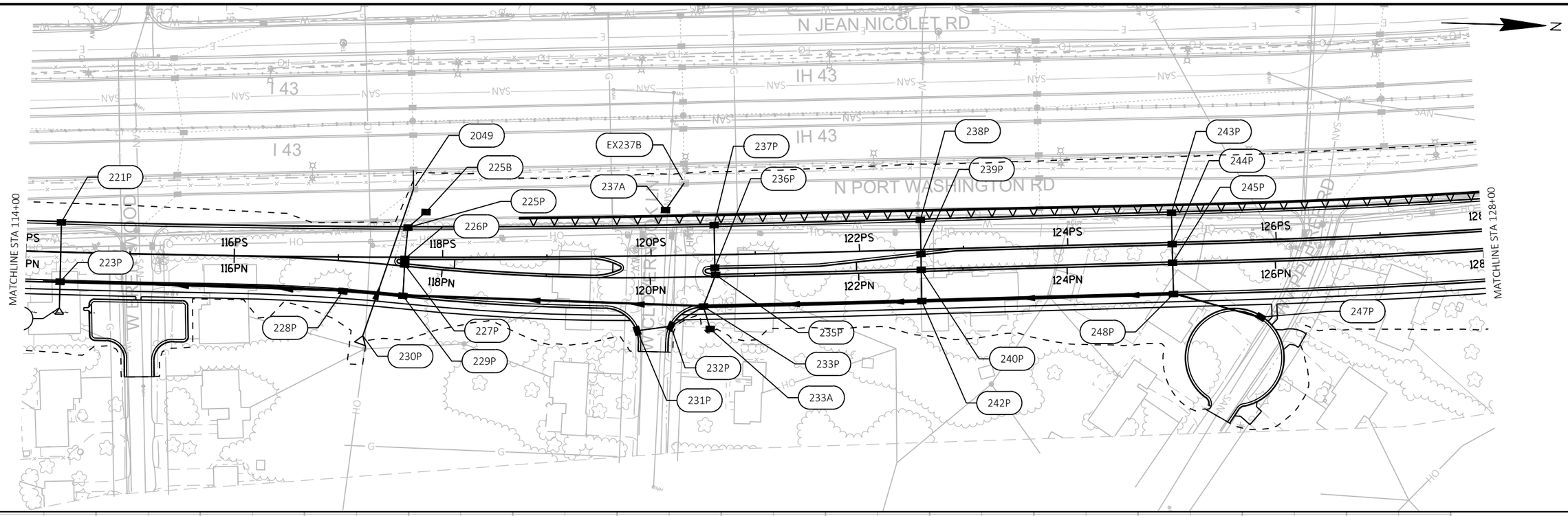


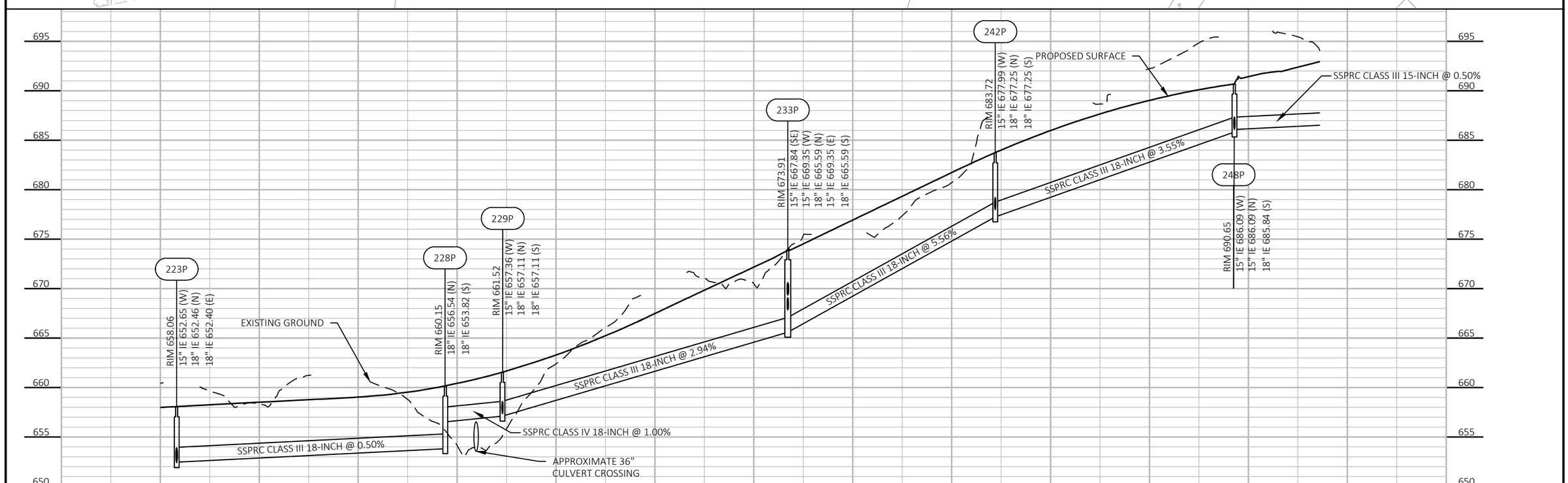
PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	STORM SEWER PLAN & PROFILE SIDEROAD - PORT WASHINGTON	SHEET	E



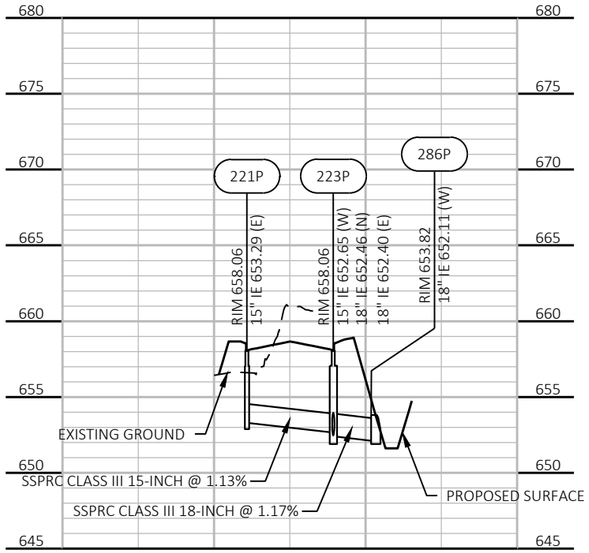


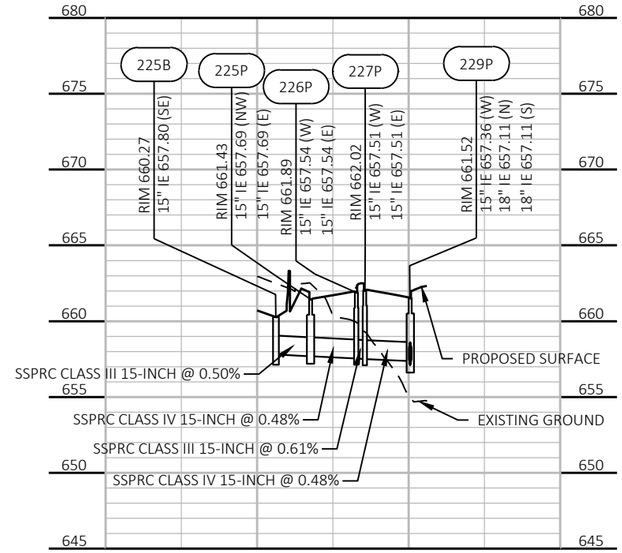
PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	STORM SEWER PLAN & PROFILE SIDEROAD - PORT WASHINGTON	SHEET	E

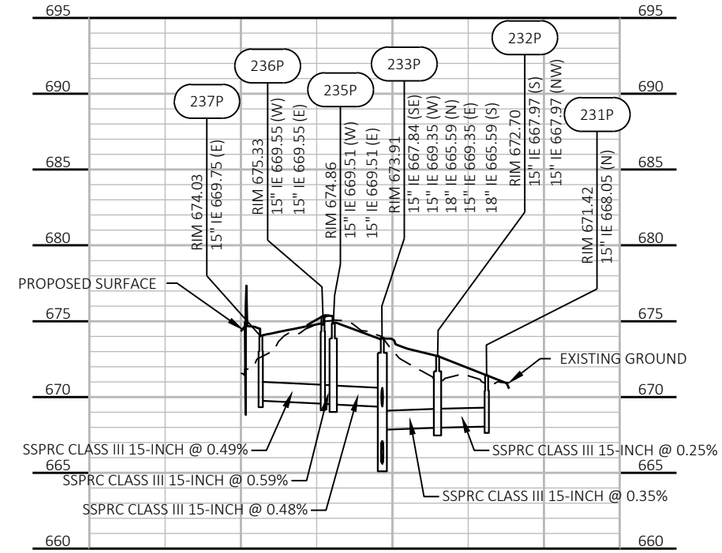


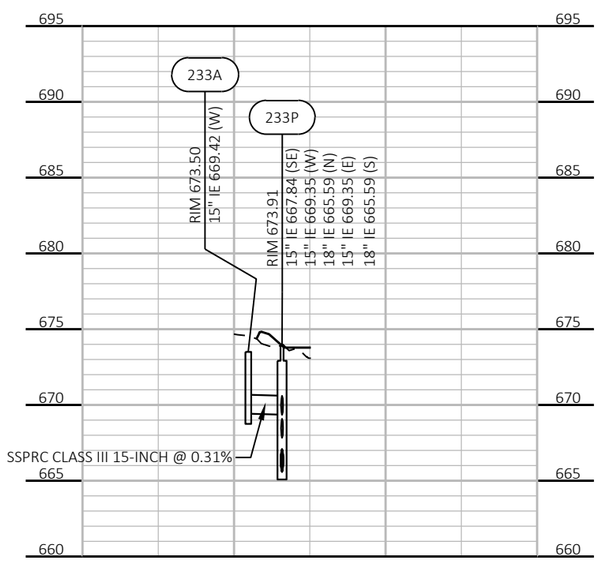


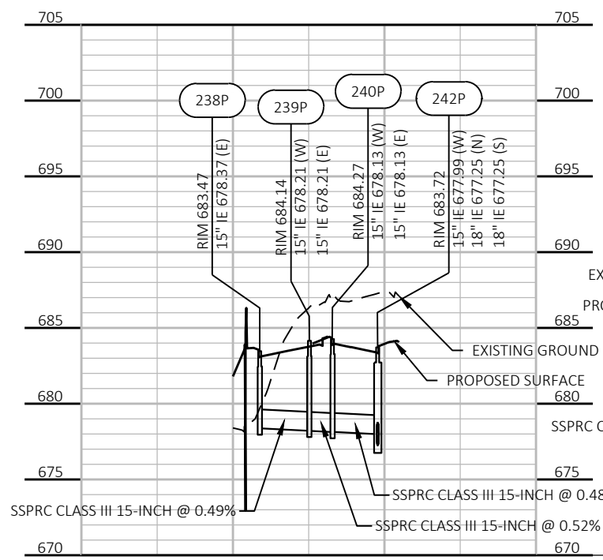
PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	STORM SEWER PLAN & PROFILE SIDEROAD - PORT WASHINGTON	SHEET	E

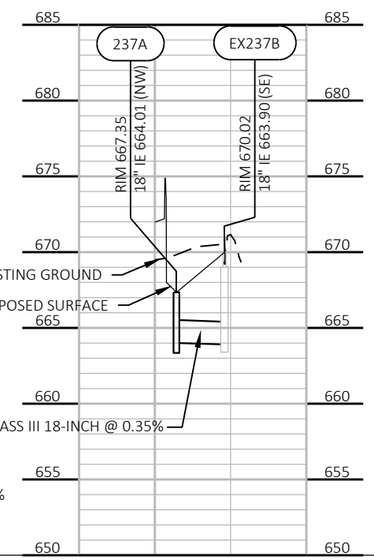

221P
223P
286P
RIM 658.06
15" IE 653.29 (E)
RIM 658.06
15" IE 652.65 (W)
18" IE 652.46 (N)
18" IE 652.40 (E)
RIM 653.82
18" IE 652.11 (W)
EXISTING GROUND
SSPRC CLASS III 15-INCH @ 1.13%
SSPRC CLASS III 18-INCH @ 1.17%
PROPOSED SURFACE

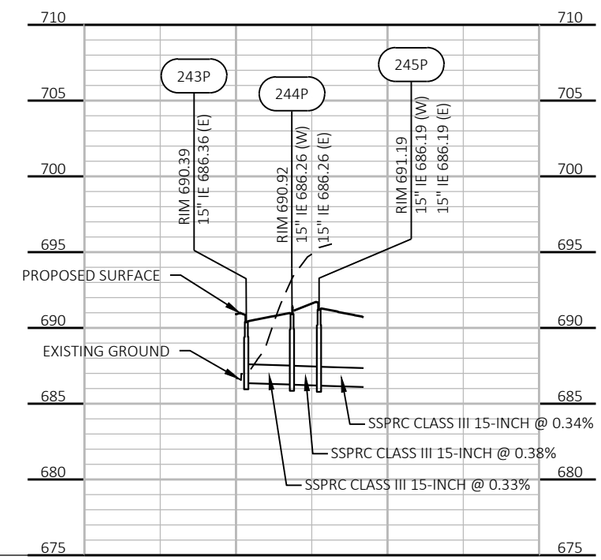

225B
225P
226P
227P
229P
RIM 660.27
15" IE 657.80 (SE)
RIM 661.43
15" IE 657.69 (NW)
15" IE 657.69 (E)
RIM 661.89
15" IE 657.54 (W)
15" IE 657.54 (E)
RIM 662.02
15" IE 657.51 (W)
15" IE 657.51 (E)
RIM 661.52
15" IE 657.36 (W)
18" IE 657.11 (N)
18" IE 657.11 (S)
SSPRC CLASS III 15-INCH @ 0.50%
SSPRC CLASS IV 15-INCH @ 0.48%
SSPRC CLASS III 15-INCH @ 0.61%
SSPRC CLASS IV 15-INCH @ 0.48%
PROPOSED SURFACE
EXISTING GROUND

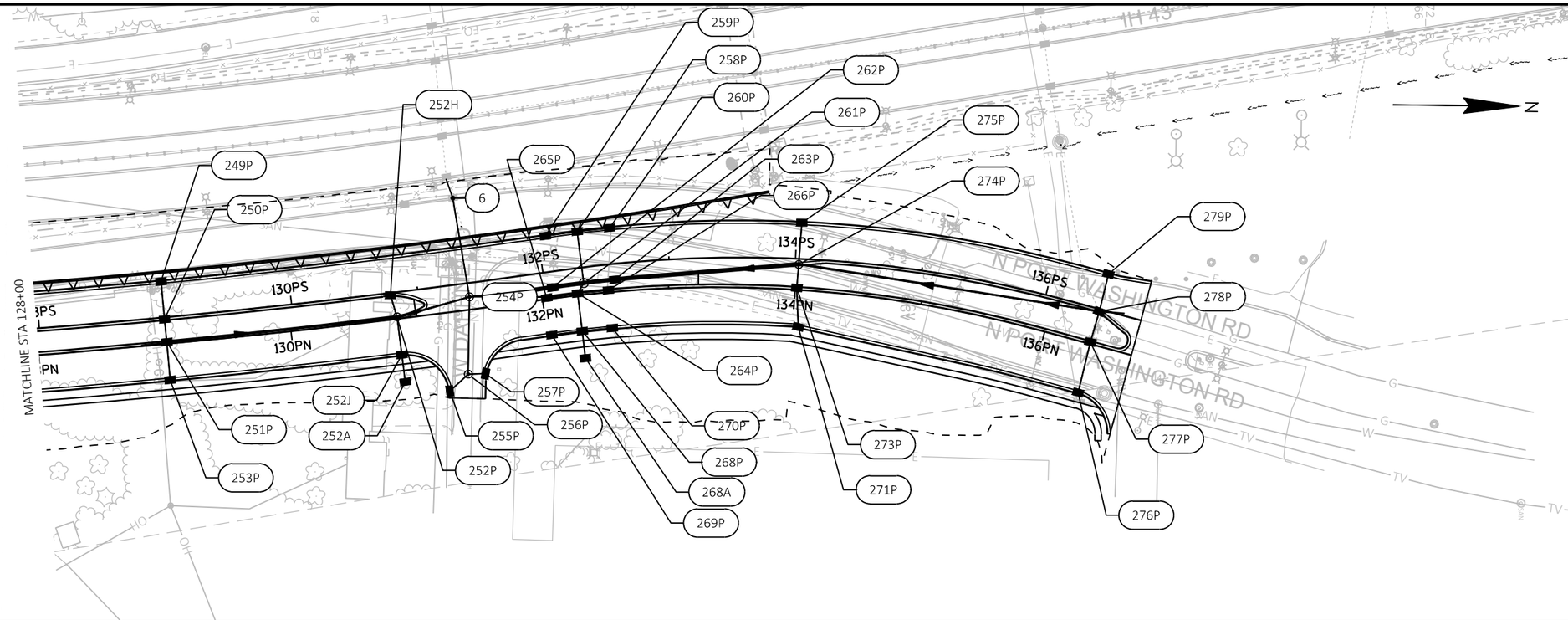

237P
236P
235P
233P
232P
231P
RIM 674.03
15" IE 669.75 (E)
RIM 675.33
15" IE 669.55 (W)
15" IE 669.55 (E)
RIM 674.86
15" IE 669.51 (W)
15" IE 669.51 (E)
RIM 673.91
15" IE 667.84 (SE)
15" IE 669.35 (W)
18" IE 665.59 (N)
15" IE 669.35 (E)
18" IE 665.59 (S)
RIM 672.70
15" IE 667.97 (S)
15" IE 667.97 (NW)
RIM 671.42
15" IE 668.05 (N)
PROPOSED SURFACE
EXISTING GROUND
SSPRC CLASS III 15-INCH @ 0.49%
SSPRC CLASS III 15-INCH @ 0.59%
SSPRC CLASS III 15-INCH @ 0.48%
SSPRC CLASS III 15-INCH @ 0.25%
SSPRC CLASS III 15-INCH @ 0.35%

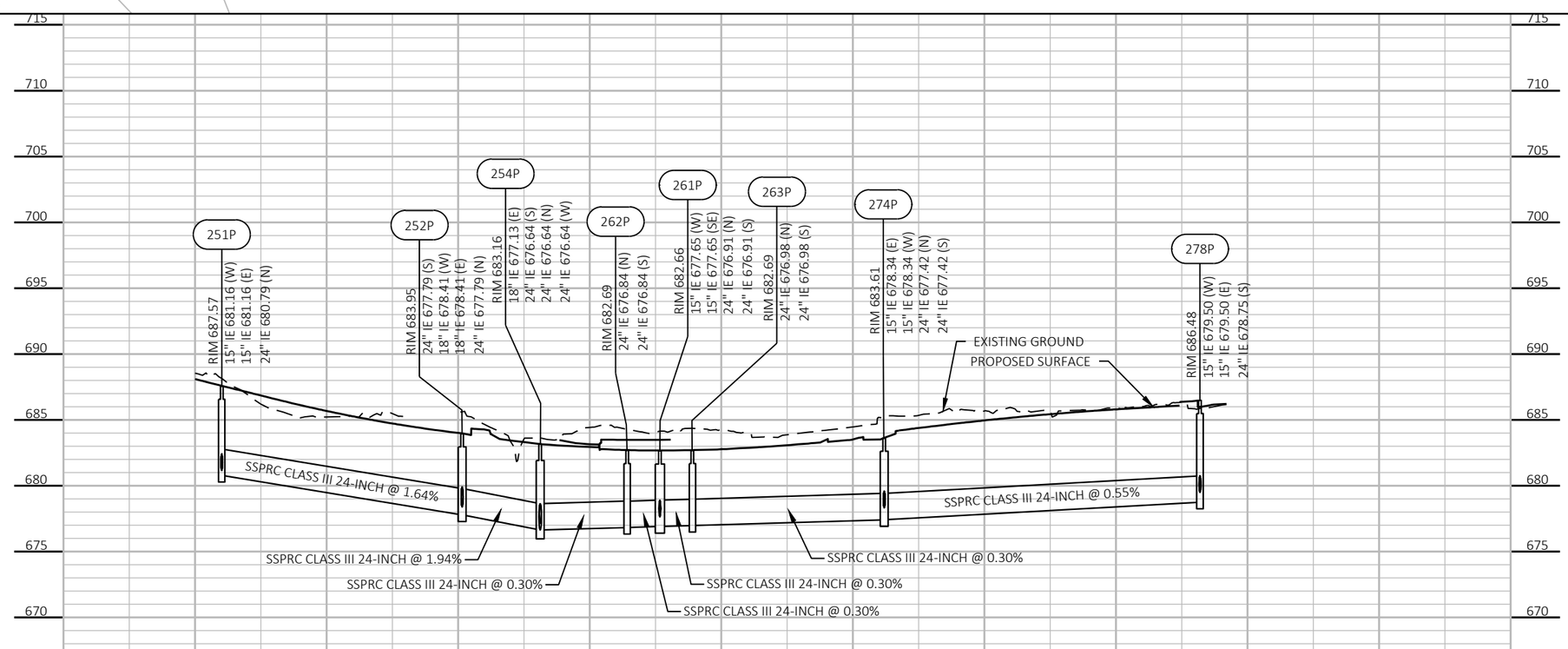

233A
233P
RIM 673.50
15" IE 669.42 (W)
RIM 673.91
15" IE 667.84 (SE)
15" IE 669.35 (W)
18" IE 665.59 (N)
15" IE 669.35 (E)
18" IE 665.59 (S)
SSPRC CLASS III 15-INCH @ 0.31%


238P
239P
240P
242P
RIM 683.47
15" IE 678.37 (E)
RIM 684.14
15" IE 678.21 (W)
15" IE 678.21 (E)
RIM 684.27
15" IE 678.13 (W)
15" IE 678.13 (E)
RIM 683.72
15" IE 677.99 (W)
18" IE 677.25 (N)
18" IE 677.25 (S)
EXISTING GROUND
PROPOSED SURFACE
SSPRC CLASS III 15-INCH @ 0.49%
SSPRC CLASS III 15-INCH @ 0.48%
SSPRC CLASS III 15-INCH @ 0.52%

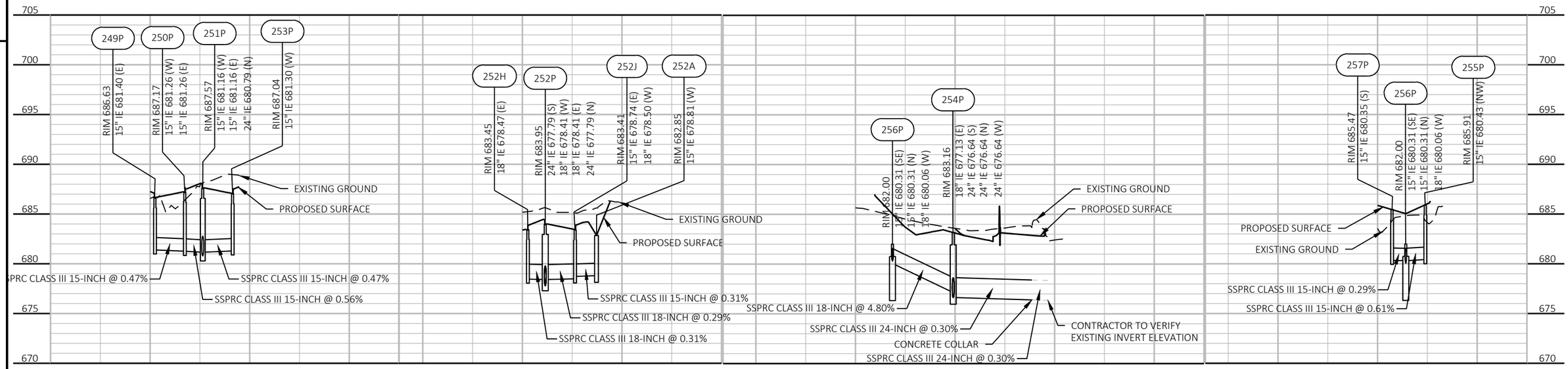

237A
EX237B
RIM 667.35
18" IE 664.01 (NW)
RIM 670.02
18" IE 663.90 (SE)
EXISTING GROUND
PROPOSED SURFACE
SSPRC CLASS III 18-INCH @ 0.35%

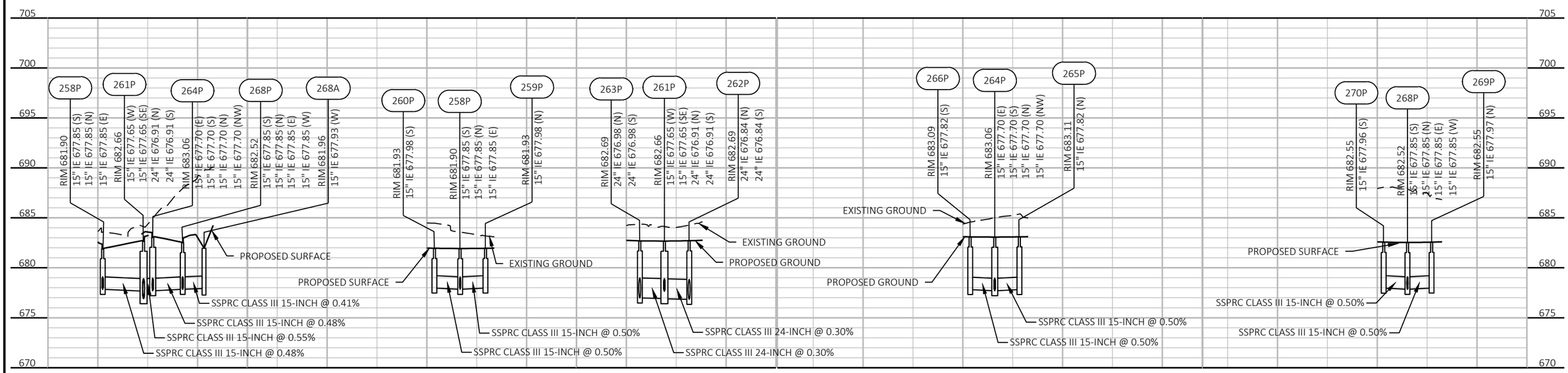

243P
244P
245P
RIM 690.39
15" IE 686.36 (E)
RIM 690.92
15" IE 686.26 (W)
15" IE 686.26 (E)
RIM 691.19
15" IE 686.19 (W)
15" IE 686.19 (E)
PROPOSED SURFACE
EXISTING GROUND
SSPRC CLASS III 15-INCH @ 0.34%
SSPRC CLASS III 15-INCH @ 0.38%
SSPRC CLASS III 15-INCH @ 0.33%



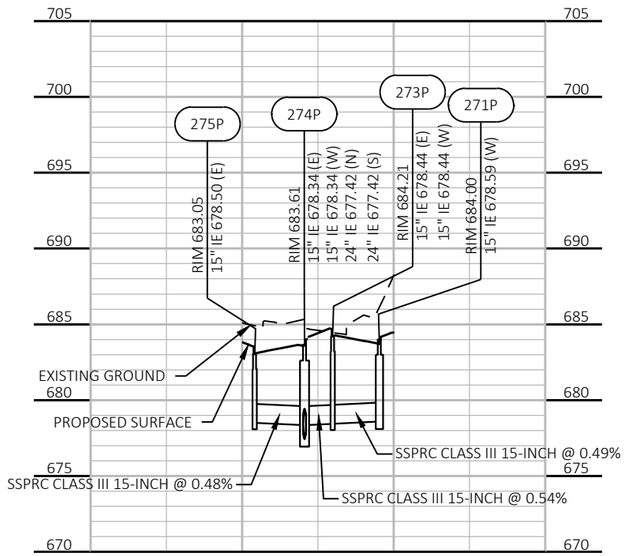


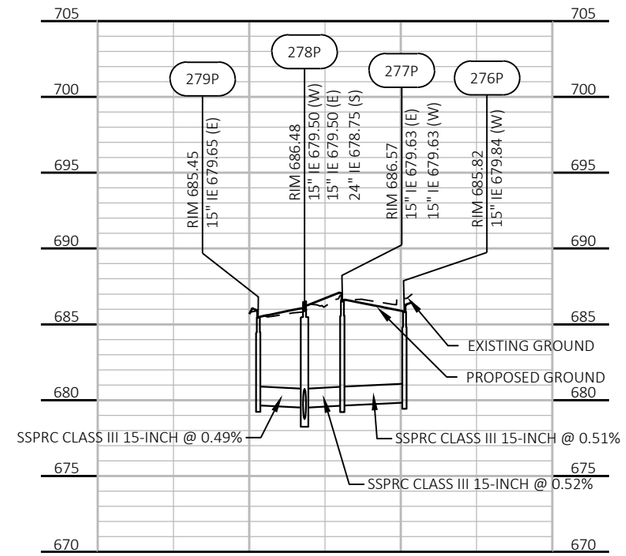
PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	STORM SEWER PLAN & PROFILE SIDEROAD - PORT WASHINGTON	SHEET	E





PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	STORM SEWER PLAN & PROFILE SIDEROAD - PORT WASHINGTON	SHEET	E


705
700
695
690
685
680
675
670
275P
274P
273P
271P
RIM 683.05
15" IE 678.50 (E)
RIM 683.61
15" IE 678.34 (E)
15" IE 678.34 (W)
24" IE 677.42 (N)
24" IE 677.42 (S)
RIM 684.21
15" IE 678.44 (E)
15" IE 678.44 (W)
RIM 684.00
15" IE 678.59 (W)
EXISTING GROUND
PROPOSED SURFACE
SSPRC CLASS III 15-INCH @ 0.49%
SSPRC CLASS III 15-INCH @ 0.48%
SSPRC CLASS III 15-INCH @ 0.54%


705
700
695
690
685
680
675
670
279P
278P
277P
276P
RIM 685.45
15" IE 679.65 (E)
RIM 686.48
15" IE 679.50 (W)
15" IE 679.50 (E)
24" IE 678.75 (S)
RIM 686.57
15" IE 679.63 (E)
15" IE 679.63 (W)
RIM 685.82
15" IE 679.84 (W)
EXISTING GROUND
PROPOSED GROUND
SSPRC CLASS III 15-INCH @ 0.49%
SSPRC CLASS III 15-INCH @ 0.51%
SSPRC CLASS III 15-INCH @ 0.52%

3

STORM SEWER STRUCTURES

STRUCTURE	STATION	OFFSET*	RIM ELEVATION	INVERT** ELEVATION	DEPTH*** FT	LOCATION	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EACH	522.1036 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.323 INLETS 2X3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.3902 INLETS MEDIAN 2 GRATE EACH
247P	125+84.36	53.03' RT	692.90	686.52	5.57	PW-NB-SE								1		
245P	125+01.40	1.50' LT	691.19	686.19	4.19	PW-NB-SE								1		
244P	125+01.49	19.30' LT	690.92	686.26	3.85	PW-NB-SE								1		
248P	125+01.44	28.50' RT	690.65	685.84	4.02	PW-NB-SE							1			
243P	125+01.72	49.50' LT	690.39	686.36	3.22	PW-NB-SE								1		
251P	129+01.64	1.51' LT	687.57	680.79	6.03	PW-NB-SE							1			
250P	129+01.55	19.50' LT	687.17	681.26	5.10	PW-NB-SE								1		
253P	129+01.43	28.50' RT	687.04	681.30	4.92	PW-NB-SE								1		
249P	129+01.62	49.50' LT	686.63	681.40	4.42	PW-NB-SE								1		
277P	136+36.87	1.50' LT	686.57	679.63	6.13	PW-NB-SE								1		
278P	136+37.37	26.48' LT	686.48	678.75	6.98	PW-NB-SE				1						
255P	131+18.36	61.63' RT	685.91	680.43	4.67	PW-NB-SE								1		
276P	136+38.00	39.51' RT	685.82	679.84	5.17	PW-NB-SE								1		
257P	131+47.83	51.62' RT	685.47	680.35	4.30	PW-NB-SE								1		
279P	136+36.59	57.00' LT	685.45	679.65	4.99	PW-NB-SE								1		
240P	122+60.11	1.50' LT	684.27	678.13	5.33	PW-NB-SE								1		
273P	134+01.18	1.49' LT	684.21	678.44	4.96	PW-NB-SE								1		
239P	122+60.26	16.69' LT	684.14	678.21	5.12	PW-NB-SE								1		
271P	134+04.38	29.21' RT	684.00	678.59	4.60	PW-NB-SE							1			
252P	130+84.33	1.52' LT	683.95	677.79	5.41	PW-NB-SE			1							
242P	122+59.82	28.50' RT	683.72	677.25	5.68	PW-NB-SE							1			
274P	134+01.49	19.95' LT	683.61	677.42	5.45	PW-NB-SE			1							
238P	122+60.57	49.50' LT	683.47	678.37	4.29	PW-NB-SE								1		
252H	130+81.37	19.19' LT	683.45	678.47	4.19	PW-NB-SE								1		
252J	130+84.55	28.51' RT	683.41	678.50	4.12	PW-NB-SE								1		
254P	131+43.14	10.05' LT	683.16	676.64	5.54	PW-NB-SE			1							
265P	132+03.48	1.00' LT	683.11	677.82	4.47	PW-NB-SE							1			
266P	132+52.68	1.49' LT	683.09	677.82	4.45	PW-NB-SE							1			
264P	132+28.15	1.50' LT	683.06	677.70	4.55	PW-NB-SE			1							
275P	134+01.72	52.96' LT	683.05	678.50	3.74	PW-NB-SE								1		
252A	130+84.66	50.00' RT	682.85	678.81	4.23	PW-NB-SE									1	
262P	132+09.23	8.52' LT	682.69	676.84	5.10	PW-NB-SE							1			
263P	132+58.27	9.33' LT	682.69	676.98	4.95	PW-NB-SE							1			
261P	132+33.82	8.89' LT	682.66	676.91	5.00	PW-NB-SE						1				
269P	132+03.42	28.50' RT	682.55	677.97	3.77	PW-NB-SE							1			

3

3

STORM SEWER STRUCTURES

STRUCTURE	STATION	OFFSET*	RIM ELEVATION	INVERT** ELEVATION	DEPTH*** FT	LOCATION	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EACH	522.1036 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.323 INLETS 2X3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.3902 INLETS MEDIAN 2 GRATE EACH
270P	132+52.87	28.51' RT	682.55	677.96	3.77	PW-NB-SE							1			
268P	132+28.38	28.52' RT	682.52	677.85	3.86	PW-NB-SE							1			
256P	131+34.21	50.32' RT	682.00	680.06	0.91	PW-NB-SE					1					
268A	132+28.40	50.00' RT	681.96	677.93	4.22	PW-NB-SE										1
260P	132+57.58	50.32' LT	681.93	677.98	3.14	PW-NB-SE							1			
259P	132+08.96	49.52' LT	681.93	677.98	3.14	PW-NB-SE							1			
258P	132+33.15	49.89' LT	681.90	677.85	3.24	PW-NB-SE							1			
236P	120+62.08	8.49' LT	675.33	669.55	4.96	PW-NB-SE								1		
235P	120+62.65	1.70' LT	674.86	669.51	4.54	PW-NB-SE							1			
237P	120+62.13	49.50' LT	674.03	669.75	3.46	PW-NB-SE								1		
233P	120+50.38	28.50' RT	673.91	665.59	7.53	PW-NB-SE					1					
233A	120+56.54	50.08' RT	673.50	669.42	4.26	PW-NB-SE									1	
232P	120+18.97	46.90' RT	672.70	667.97	3.92	PW-NB-SE							1			
231P	119+87.11	50.78' RT	671.42	668.05	2.56	PW-NB-SE								1		
EX237B	120+34.08	90.56' LT	670.02	663.90	5.32	PW-NB-SE							1			
237A	120+15.57	64.75' LT	667.35	664.01	3.55	PW-NB-SE										1
2049	117+64.73	74.57' LT	662.23	651.57	9.66	PW-NB-SE				1						
227P	117+63.71	1.50' LT	662.02	657.51	3.70	PW-NB-SE								1		
226P	117+63.28	7.02' LT	661.89	657.54	3.54	PW-NB-SE								1		
229P	117+65.11	28.51' RT	661.52	657.11	3.61	PW-NB-SE							1			
225P	117+63.28	37.18' LT	661.43	657.69	2.93	PW-NB-SE							1			
225B	117+79.16	53.78' LT	660.27	657.80	2.66	PW-NB-SE										1
228P	117+06.53	29.00' RT	660.15	653.82	5.53	PW-NB-SE							1			
223P	114+33.60	28.50' RT	658.06	652.40	4.87	PW-NB-SE							1			
221P	114+33.36	28.50' LT	658.06	653.29	3.95	PW-NB-SE								1		
230P	117+29.55	70.32' RT		654.38		PW-NB-SE		1								
217P	111+72.27	28.00' RT	657.44	650.09	6.56	PW-NB-SE								1		
214F	200+78.46	28.64' RT	655.80	648.43	6.38	PN-TEMP				1						
214G	200+76.08	13.57' RT	655.30	650.82	3.67	PN-TEMP							1			
214H	200+62.36	42.94' RT	655.13	648.35	6.03	PN-TEMP				1						
212P	108+61.93	26.50' LT	655.05	650.59	3.65	PW-NB-SE							1			
214P	108+63.30	26.57' RT	655.05	648.04	6.26	PW-NB-SE								1		
215P	203+06.98	13.02' LT	654.97	649.37	4.85	PN-TEMP				1						
214E	201+00.52	34.71' RT	654.85	648.50	5.60	PN-TEMP				1						
214D	202+24.98	12.50' RT	654.28	649.69	3.78	PN-TEMP							1			
214A	202+24.98	12.50' LT	654.28	649.04	4.49	PN-TEMP							1			
214B	202+09.98	12.50' LT	654.26	648.98	4.53	PN-TEMP					1					
214C	202+09.98	13.00' RT	654.24	648.89	4.61	PN-TEMP							1			

3

3

STORM SEWER STRUCTURES

STRUCTURE	STATION	OFFSET*	RIM ELEVATION	INVERT** ELEVATION	DEPTH*** FT	LOCATION	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EACH	522.1036 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.323 INLETS 2X3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.3902 INLETS MEDIAN 2 GRATE EACH
286P	114+33.64	53.49' RT		653.82		PW-NB-SE	1									
211P	105+65.46	26.50' RT	653.46	646.83	5.88	PW-NB-SE							1			
209P	105+65.18	26.50' LT	653.46	647.84	4.81	PW-NB-SE							1			
212A	200+04.09	36.88' LT	652.61	649.52	1.95	PN-TEMP							1			
212B	108+14.73	36.92' LT	652.60	649.69	1.76	PW-NB-SE							1			
285P	112+53.66	62.73' RT		652.15		PW-NB-SE	1									
202	100+39.70	51.31' LT	648.75	639.03	8.73	PW-NB-SE			1							
207P	103+05.26	26.49' LT	650.98	646.77	3.40	PW-NB-SE								1		
208P	102+98.76	27.00' RT	650.91	644.81	5.35	PW-NB-SE							1			
203P	100+50.00	0.76' LT	649.03	642.89	5.31	PW-NB-SE							1			
202P	100+50.17	7.47' LT	648.93	642.85	5.24	PW-NB-SE							1			
204P	100+60.92	26.49' RT	648.50	643.03	4.72	PW-NB-SE				1						
201P	100+65.93	44.06' LT	648.31	639.27	8.29	PW-NB-SE							1			
						TOTALS	2	1	1	7	7	1	34	28	2	3

REMARKS

* STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE

** FOR STRUCTURES WITH SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE SUMP. FOR STRUCTURES WITHOUT SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE LOWEST PIPE FLOW LINE

*** DEPTH = RIM ELEV - TOP OF STRUCTURE BASE ELEV - COVER HEIGHT - 6 -INCH ADJUSTMENT RING HEIGHT

2

GENERAL NOTES

DETAILS OF CONSTRUCTION MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE CONTRACTOR IS RESPONSIBLE FOR NOT BACKFEEDING CIRCUITS PRIOR TO DISCONNECTING ANY BRANCH CIRCUITS FROM OLD SOURCE.

LOCATIONS OF THE PVC CONDUITS ARE IDENTIFIED IN THE PLANS WHERE THEY ARE REQUIRED. APPROPRIATE ADJUSTMENT ON CONDUIT LOCATIONS MAY BE MADE IF THE FIELD CONDITIONS ARE SUCH THAT THE CONDUIT CANNOT BE INSTALLED AT THE SPECIFIED LOCATIONS. FIELD MARK EACH CONDUIT LOCATION IN RED.

ALL CONDUITS SHALL BE CAPPED OR PLUGGED WITH ENGINEER APPROVED FITTINGS IMMEDIATELY AFTER INSTALLATION. THE TRENCH SHALL NOT BE BACK FILLED PRIOR TO INSPECTION OF THE CONDUIT.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR IMMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT. ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON ALL CONDUITS.

PRIOR TO CONDUIT ACCEPTANCE, ALL CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND BE CAPPED WITH THE APPROPRIATE CAST PLASTIC CAP WHICH FITS SNUGGLY ON THE CONDUIT, BUT EASILY REMOVED IN THE FUTURE. DUCT TAPE OR ANY OTHER CAPPING METHOD IS NOT ACCEPTABLE.

CONDUIT RUNS SHALL BE THE SAME SIZE PIPE FROM ONE END TO THE OTHER (FROM PULL BOX-TO-PULL BOX OR JUNCTION BOX OR BASE-TO-BASE, ETC.) UNLESS OTHERWISE NOTED ON PLANS.

PULL ROPE (3/8-INCH NYLON) SHALL BE INSTALLED IN ALL NEW CONDUITS.

CONTRACTOR SHALL SUPPLY AS-BUILT DRAWING FOR ALL THE WORK BEING DONE.

INSTALLATION OF LATERAL UNDERGROUND CONDUIT UNDER PAVEMENT SHALL BE INSTALLED MINIMUM 30 INCHES BELOW PROPOSED GRADE AND A MINIMUM OF 3 INCHES BELOW ALL PAVEMENT BASE MATERIALS. CONDUIT LATERALS SHALL BE TRENCHED UNDER PAVEMENT BEFORE PAVEMENT CONSTRUCTION. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ROADWAY CONSTRUCTION FOR CONDUIT LATERALS INSTALLATION.

PITCH ALL CONDUITS TOWARD PULL BOXES. INSTALL A 2" DRAIN DUCT TO STORM SEWER OR DRAIN SUMP AS REQUIRED FOR DRAINAGE. THE 2" DRAIN DUCT OR SUMP IS INCIDENTAL TO THE PULL BOX BID ITEM AND IS NOT SHOWN.

THE LOCATION OF EXISTING AND PROPOSED UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE, IN ADDITION, THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

HAND DIGGING MAY BE REQUIRED FOR LOCATIONS ADJACENT TO EXISTING GAS AND POWER LINES. HAND EXCAVATION SHOULD BE ANTICIPATED & WILL BE CONSIDERED INCIDENTAL TO THE CONCRETE BASES BID ITEM. COORDINATE ALL WORK NEAR GAS LINE WITH WE ENERGIES.

EXISTING CONDUIT AND CID NO LONGER BEING USED IS ABANDONED IN PLACE. THE CONTRACTOR MAY REMOVE ABANDONED WIRING AT THE CONTRACTOR'S EXPENSE. ABANDONED PULL BOX REMOVAL IS INCIDENTAL TO THE ROAD CONSTRUCTION.

ALL UNDERGROUND WIRING AND CONDUIT FOR POLES BEING REMOVED IS ABANDONED IN PLACE UNLESS NOTED OTHERWISE. CONTRACTOR MAY SALVAGE ABANDONED WIRING AT HIS OWN EXPENSE.

IF CID CONTAINS PHASE CONDUCTOR(S) THAT WILL NOT BE USED FOR SUBSEQUENT POLES, I.E. AT THE END OF A CIRCUIT, DO NOT ENERGIZE THE RESPECTIVE CONDUCTOR(S) PAST THE LAST POLE THE PHASE WAS UTILIZED. REMOVE UNUSED CONDUCTOR(S) EXPOSED BEYOND THE CID RACEWAY IN ALL SUBSEQUENT POLES.

SEAL THE ENDS OF ALL CID RACEWAY WITH A UL RECOGNIZED FOAM CONDUIT SEALANT. PROVIDE A 1/2" NYLON ROPE EXTENDING BEYOND THE PLUG TO ASSIST IN REMOVING THE PLUG IN THE FUTURE.

SEE DETAIL "CONDUIT DETAILS AT STRUCTURE PARAPET TO ROADWAY BARRIER INTERFACE" WHEN CONDUIT EXITS TO GRADE FROM A BRIDGE PARAPET OR RETAINING WALL. RIGID METALLIC CONDUIT IN THE CONCRETE BARRIER IS INCIDENTAL TO THE RIGID NONMETALLIC CONDUIT.

PROVIDE MINIMUM CABLE SLACK AS NOTED BELOW:

PULL BOXES:	10-FT	LIGHTING CONTROL CENTERS:	10-FT
EMBEDDED JUNCTION BOXES:	3-FT	POLES:	5-FT IN AND 5-FT OUT

WIRE AND CONDUIT IS LISTED IN THE MISCELLANEOUS QUANTITIES BASED UPON THE EARLIEST STAGE SHOWN. CONTRACTOR MAY INSTALL LATER WHEN LOAD NEEDS TO BE ENERGIZED.

CONDUCTOR COLORS: 240/480V, 1 PHASE - BLACK / RED / WHITE (NEUTRAL) / BARE OR GREEN (GROUND)

STAGING NOTES

MAINTAIN LIGHTING AT ALL TIMES DURING CONSTRUCTION USING EXISTING LIGHTING, PROPOSED TEMPORARY, FINAL LIGHTING OR COMBINATIONS.

DO NOT REMOVE EXISTING LIGHTING UNTIL THE NEW OR TEMPORARY LIGHTING IS OPERATIONAL. REFER TO DRAWINGS FOR STAGING INFORMATION.

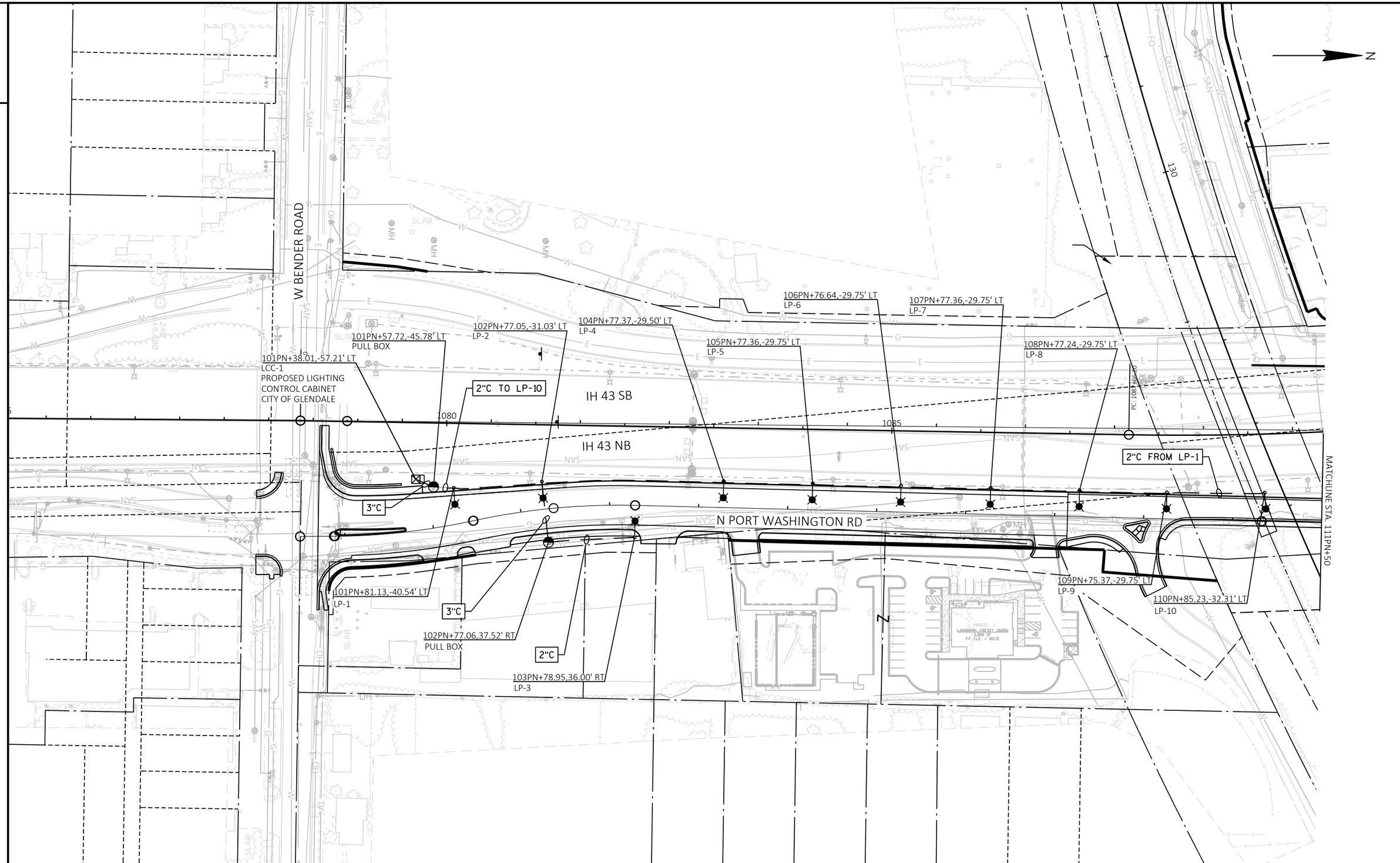
MAINTAINING SYSTEM CONTINUITY SHALL BE INCIDENTAL TO THE "REMOVE EXISTING STREET LIGHTS" BID ITEM.

DUE TO THE PHASING OF CONSTRUCTION SOME FINAL LIGHTING UNITS MAY BE ORPHANED UNTIL A LATER STAGE IS COMPLETE. IT IS AT THE DISCRETION OF THE CONTRACTOR TO SCHEDULE THESE ITEMS. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF THE PLACEMENT OF RACEWAY THAT SPANS TWO DIFFERENT PHASES OF CONSTRUCTION. MISCELLANEOUS QUANTITIES SHOW WIRING ADDED WHEN CONDUIT IS INSTALLED. WIRING INSTALLATION MAY BE DEFERRED SUBJECT TO THE LIMITATIONS NOTED HEREIN.

TEMPORARY OR FINAL LIGHTING MUST ILLUMINATE AN AREA BEFORE EXISTING LIGHTING UNITS IN AN AREA CAN BE REMOVED. THE SCHEDULING OF REMOVAL IS AT THE DISCRETION OF THE CONTRACTOR WITH THE PROVISION THAT LIGHTING OF THE ROADWAY IS PROVIDED AT ALL TIMES. COORDINATE POLE REMOVAL WITH TRAFFIC CONTROL.

LEGEND - FINAL LIGHTING

- CABLE IN CONDUIT - SIZE AS NOTED
- PROPOSED SINGLE ARM FREEWAY LIGHTING UNIT
- PROPOSED TWIN ARM LOCAL MUNI. LIGHTING UNIT
- LIGHTING CONTROL CABINET
- PULL BOX 24" x 36"
- PULL BOX 24" x 42"
- ELECTRIC METER SOCKET
- XX DENOTES THE CONSTRUCTION STAGE FOR INSTALLATION
- STUBOUT
- LUMINAIRE IDENTIFICATION



PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	LIGHTING PLAN - PORT WASHINGTON RD	SHEET	E

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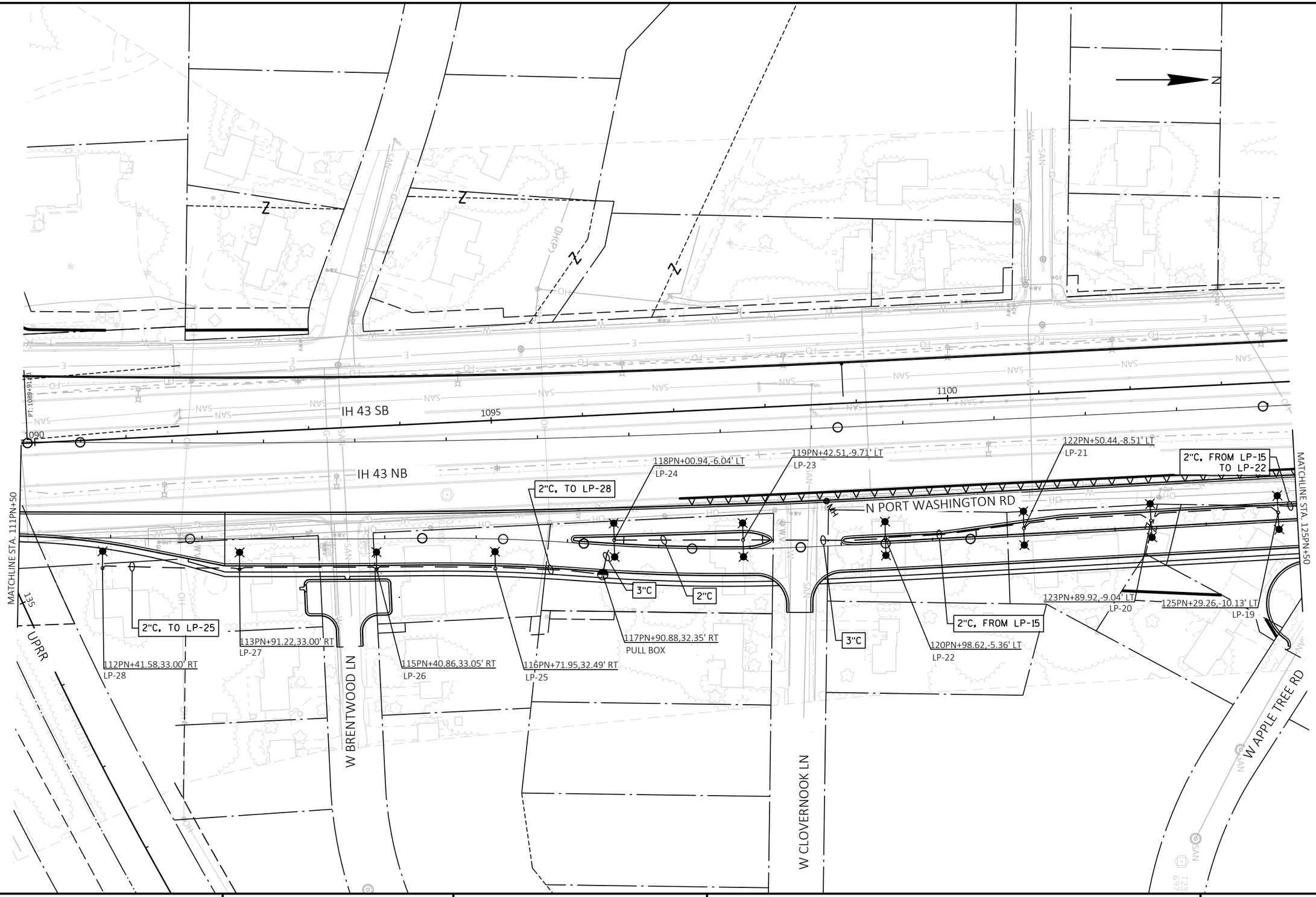
LAYOUT NAME - PORTWASHINGTON RD-1
PLOT DATE : 11/25/2020 1:42 PM
PLOT BY : KIAN K. CHAI
PLOT NAME :
PLOT SCALE : 1 IN:100 FT



PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	LIGHTING PLAN - PORT WASHINGTON RD	SHEET	E

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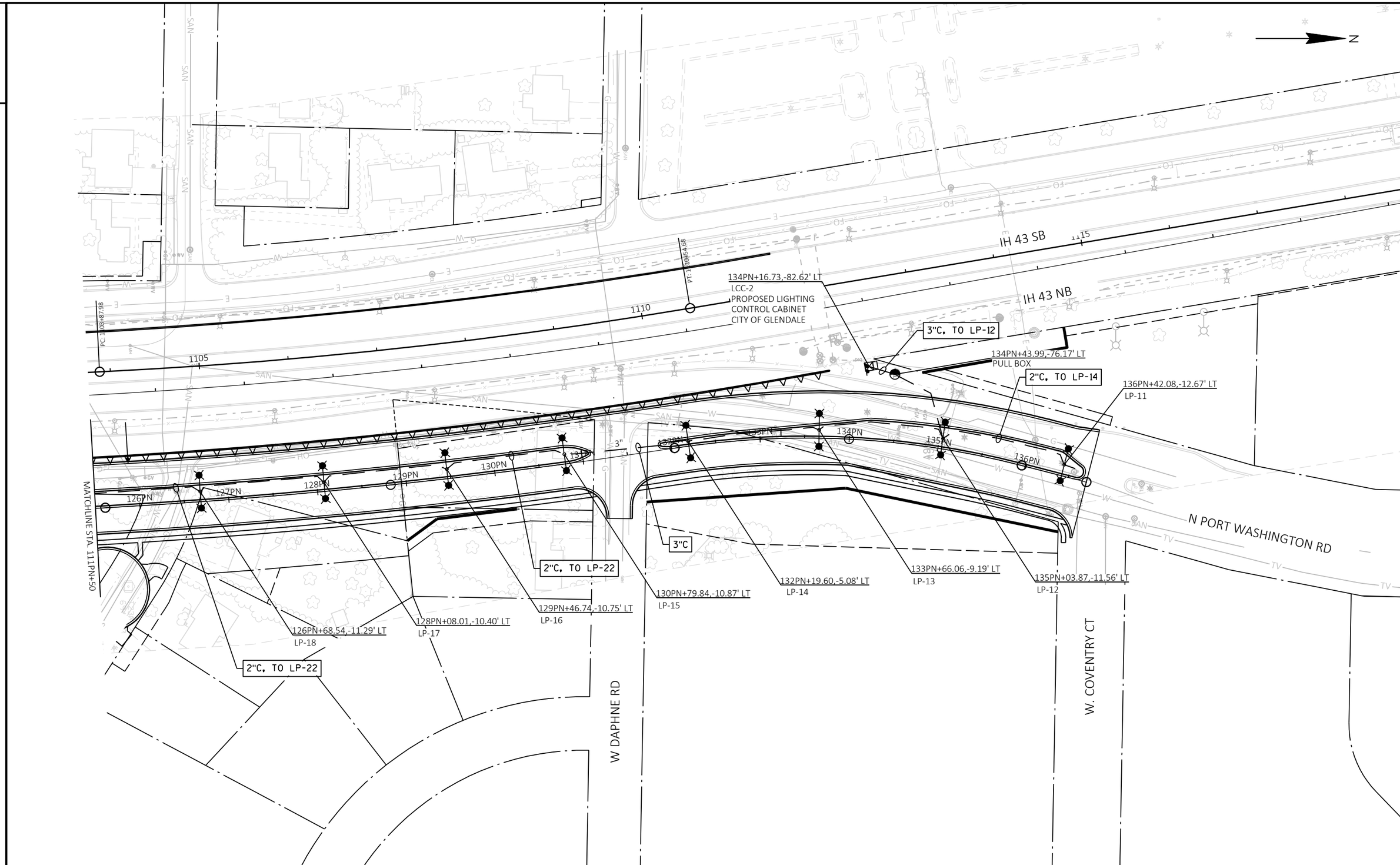
LAYOUT NAME - PORTWASHINGTON RD-2
PLOT DATE : 11/25/2020 1:42 PM PLOT BY : KIAN K. CHAI PLOT NAME : PLOT SCALE : 1 IN:100 FT

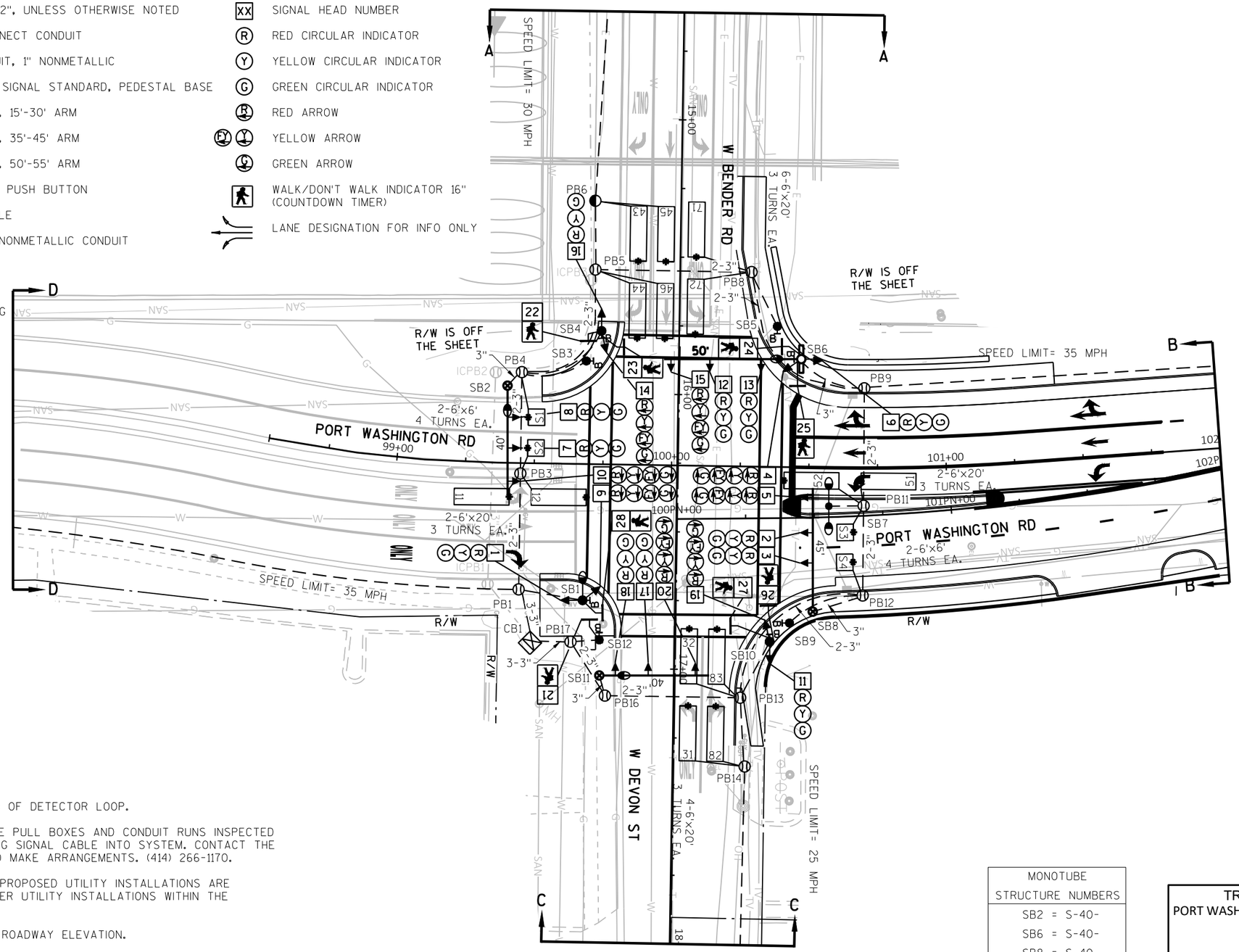

N
IH 43 SB
IH 43 NB
1115
1110
1105
PC: 103+87.98
PT: 100+54.98
134PN+16.73,-82.62' LT
LCC-2
PROPOSED LIGHTING
CONTROL CABINET
CITY OF GLENDALE
3"C, TO LP-12
134PN+43.99,-76.17' LT
PULL BOX
2"C, TO LP-14
136PN+42.08,-12.67' LT
LP-11
126PN
127PN
128PN
129PN
130PN
131PN
132PN
133PN
134PN
135PN
136PN
3"
3"C
2"C, TO LP-22
2"C, TO LP-22
MATCHLINE STA. 111PN+50
130PN+79.84,-10.87' LT
LP-15
132PN+19.60,-5.08' LT
LP-14
133PN+66.06,-9.19' LT
LP-13
135PN+03.87,-11.56' LT
LP-12
129PN+46.74,-10.75' LT
LP-16
128PN+08.01,-10.40' LT
LP-17
126PN+68.54,-11.29' LT
LP-18
N PORT WASHINGTON RD
W DAPHNE RD
W. COVENTRY CT

2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-45' ARM
- (XX) MONOTUBE BASE, POLE, 50'-55' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS. (414) 266-1170.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. INSTALL CABINET BASE 6" ABOVE ROADWAY ELEVATION.
5. ALL LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.
6. STORM SEWER, FTMS AND TRAFFIC SIGNAL INTERCONNECT PLANS ARE SHOWN GRAY SHADED FOR PLAN CLARITY.

MONOTUBE STRUCTURE NUMBERS
SB2 = S-40-
SB6 = S-40-
SB8 = S-40-
SB11 = S-40-

TRAFFIC CONTROL SIGNAL
PORT WASHINGTON RD & W BENDER RD/W DEVON ST
CITY OF GLENDALE
MILWAUKEE COUNTY

SIGNAL NO.

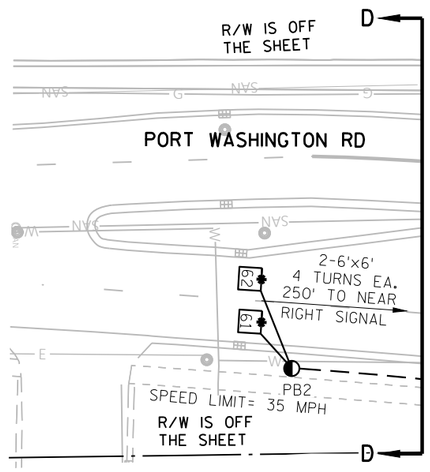
MUNICIPAL CONTACT:
DESIGNED BY: HNTB
REVISED BY:

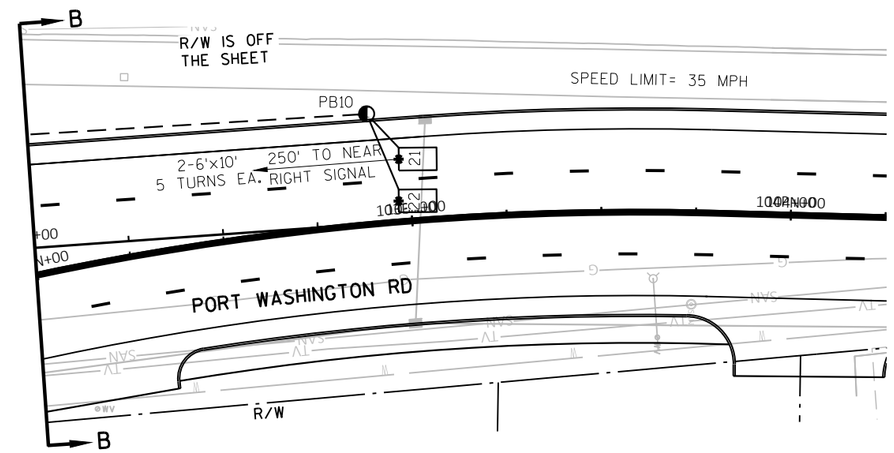
PAGE 1 OF 4

PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET	E

2

N





TRAFFIC CONTROL SIGNAL
PORT WASHINGTON RD & W BENDER RD/W DEVON ST
CITY OF GLENDALE
MILWAUKEE COUNTY

SIGNAL NO.

MUNICIPAL CONTACT:
DESIGNED BY: HNTB
REVISED BY:

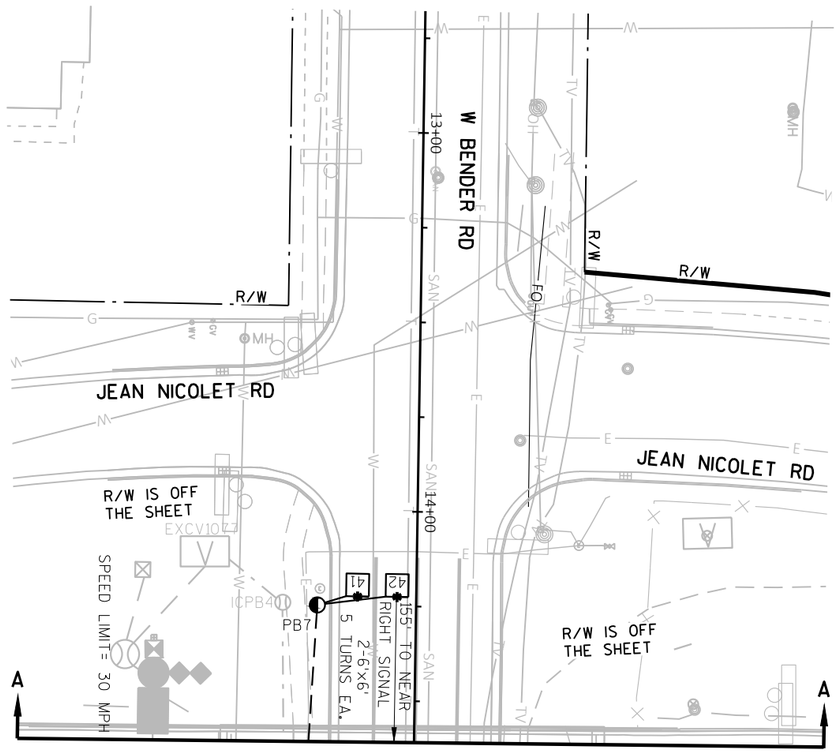
PAGE 2 OF 4

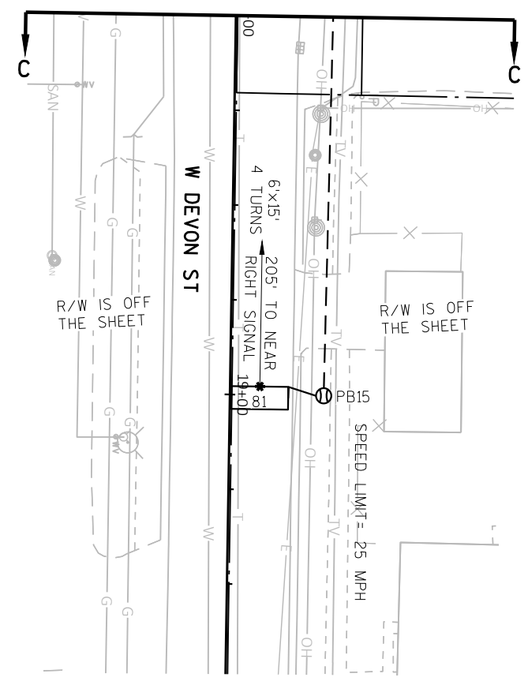
PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET	E

FILE NAME : C:\CADDLIB\PW\HNTB_ADOUGHERTY\GREATLAKES\D0229143\01_S40-XXXX.DWG
LAYOUT NAME - S40-xxxx_2

PLOT DATE : 11/30/2020 12:15 PM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42





TRAFFIC CONTROL SIGNAL

PORT WASHINGTON RD & W BENDER RD/W DEVON ST
CITY OF GLENDALE
MILWAUKEE COUNTY

SIGNAL NO.

MUNICIPAL CONTACT:
DESIGNED BY: HNTB
REVISED BY:

PAGE 3 OF 4

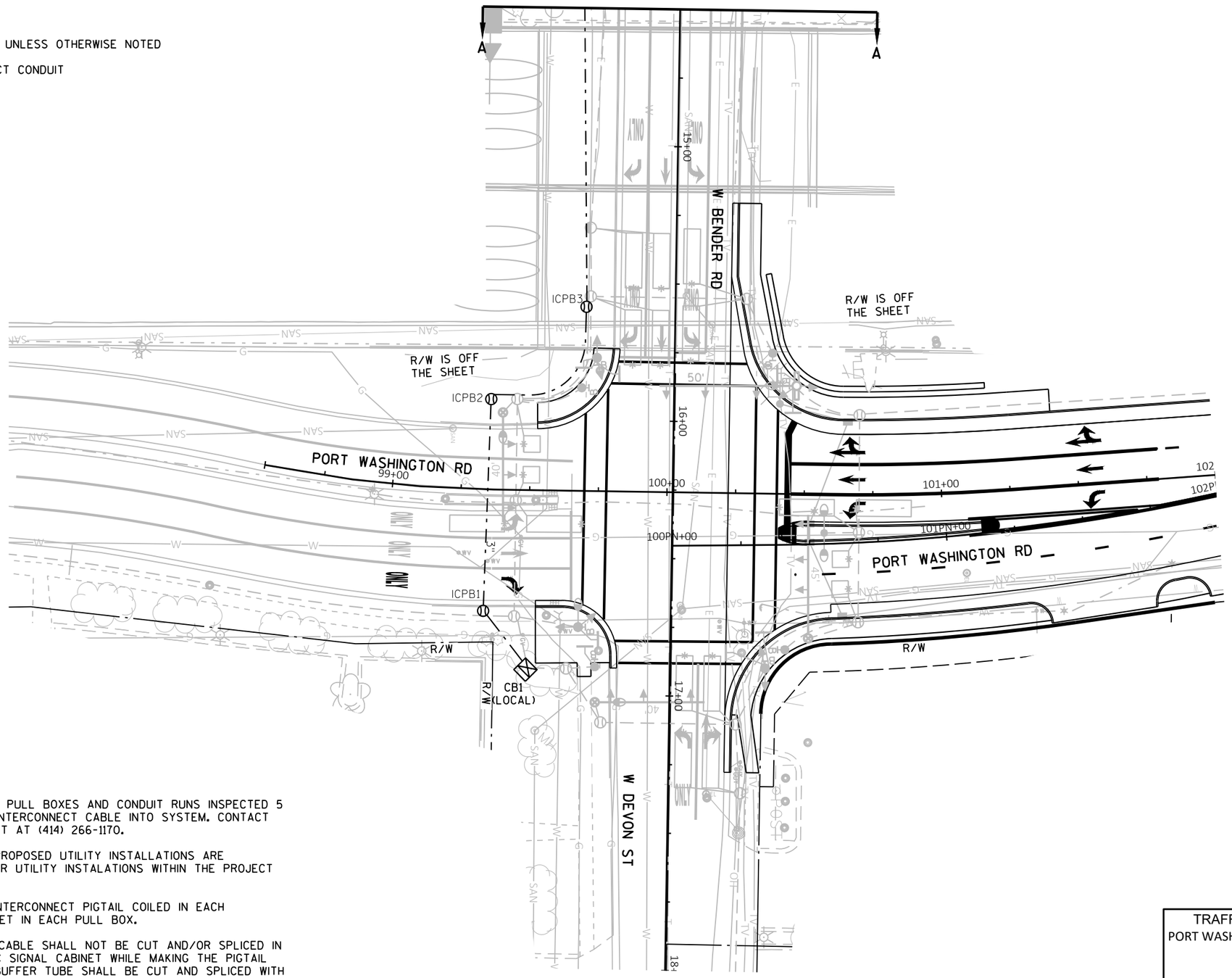
PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET	E

FILE NAME : C:\CADDLIB\PW\HNTB_ADOUGHERTY\GREATLAKES\D0229143\01_S40-XXXX.DWG
LAYOUT NAME - S40-xxxx_3
PLOT DATE : 11/30/2020 12:17 PM
PLOT BY : ALICIA DOUGHERTY
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- PULL BOX, 24" X 42"
- COMMUNICATIONS VAULT



CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING INTERCONNECT CABLE INTO SYSTEM. CONTACT THE REGIONAL ELETRICAL FIELD UNIT AT (414) 266-1170.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. LEAVE 100-FEET OF FIBER OPTIC INTERCONNECT PIGTAIL COILED IN EACH COMMUNICATIONS VAULT AND 30-FEET IN EACH PULL BOX.
4. THE ENTIRE MAINLINE FIBER OPTIC CABLE SHALL NOT BE CUT AND/OR SPLICED IN THE VAULTS NEAREST THE TRAFFIC SIGNAL CABINET WHILE MAKING THE PIGTAIL CONNECTION. ONLY THE REQUIRED BUFFER TUBE SHALL BE CUT AND SPLICED WITH THE PIGTAIL CONNECTION.
5. PROPOSED STORM SEWER, LIGHTING, DETECTABLE WARNING FIELDS, TRAFFIC SIGNALS AND FTMS ARE SHOWN GREYSHADED FOR PLAN CLARITY.

TRAFFIC CONTROL INTERCONNECT
PORT WASHINGTON RD & W BENDER RD/W DEVON ST
CITY OF GLENDALE
MILWAUKEE COUNTY

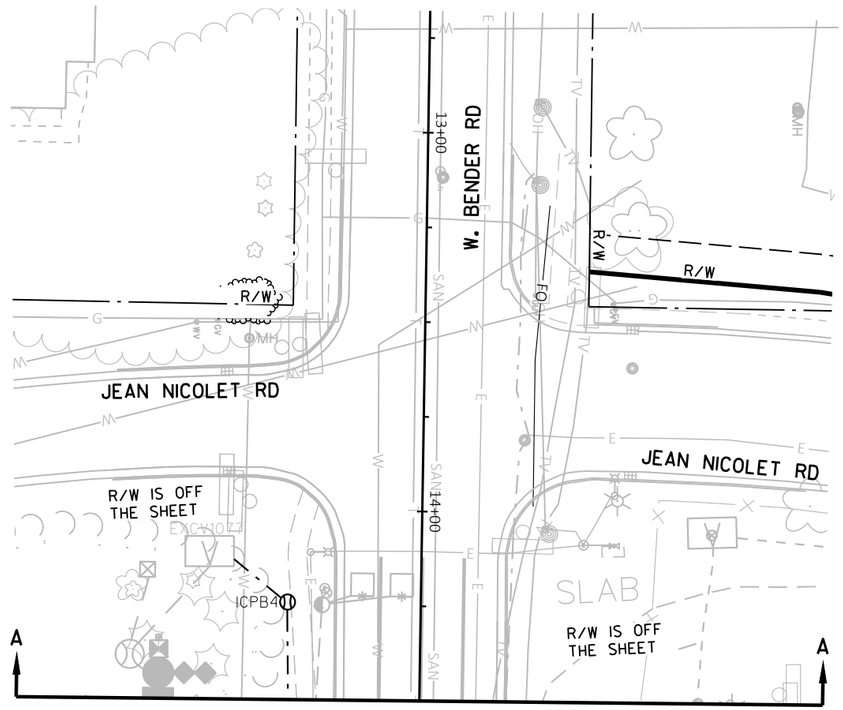
SIGNAL NO. LOCAL

MUNICIPAL CONTACT:
DESIGNED BY:
REVISED BY:

PAGE 1 OF 2

PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT	SHEET	E

2



TRAFFIC CONTROL SIGNAL
PORT WASHINGTON RD & W BENDER RD/W DEVON ST
CITY OF GLENDALE
MILWAUKEE COUNTY

SIGNAL NO.

MUNICIPAL CONTACT:
DESIGNED BY: HNTB
REVISED BY:

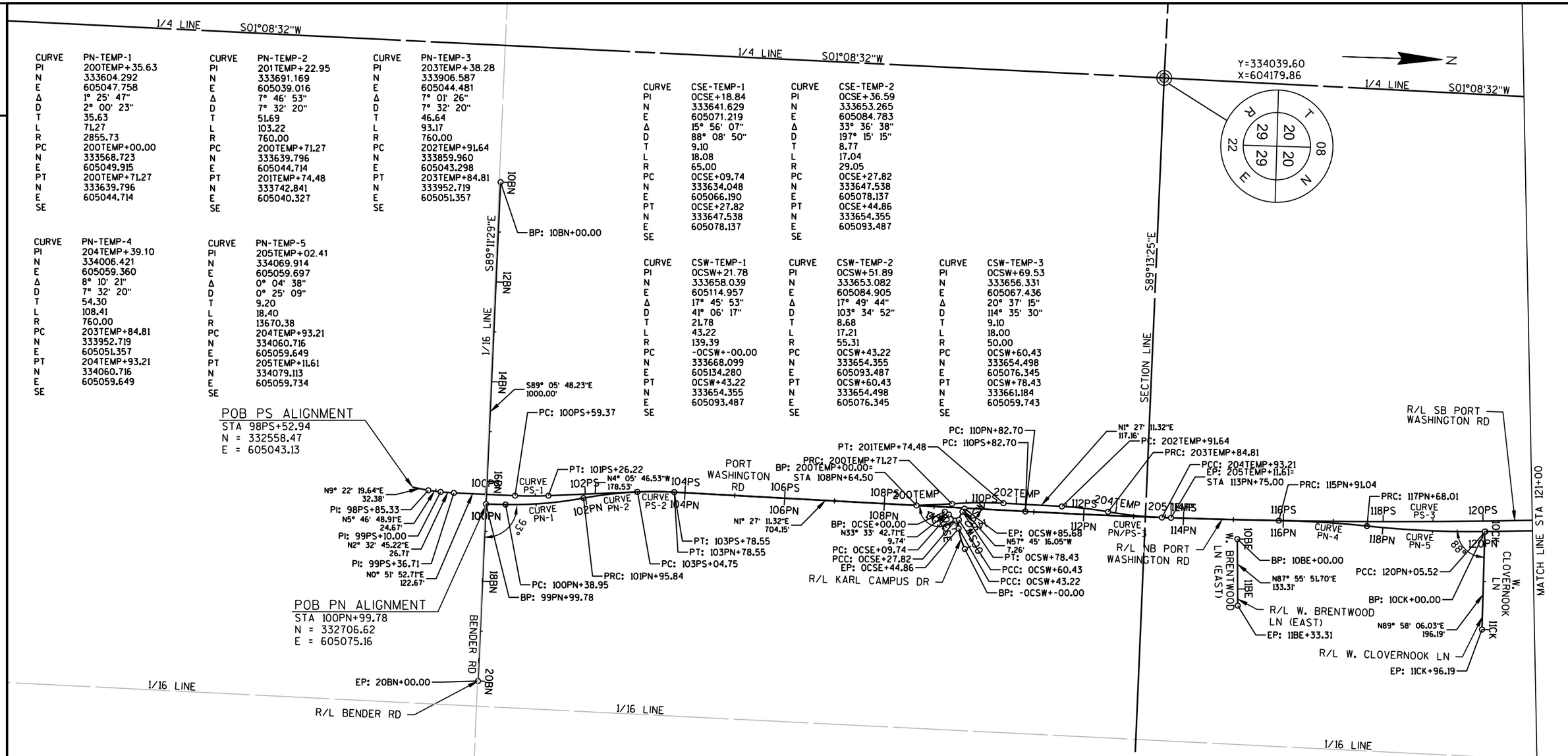
PAGE 2 OF 2

PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET	E

FILE NAME : C:\CADDLIB\PW\HNTB_ADOUGHERTY\GREATLAKES\D0229143\01_S40-XXXX_IC.DWG
LAYOUT NAME - S40-xxxx_IC2
PLOT DATE : 11/30/2020 11:41 AM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : ##########

PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	FTMS PLAN	SHEET	E

FILE NAME : C:\CADDLIB\PW\DBAUMANN\PWGREAT_LAKES\D0246023\FM_IH_43_PW_BR.DWG
LAYOUT NAME - (01)
PLOT DATE : 11/25/2020 2:29 PM
PLOT BY : DAN BAUMANN
PLOT NAME :
PLOT SCALE : 1 IN:100 FT



CURVE	PN-TEMP-1
PI	200TEMP+35.63
N	333604.292
E	605047.758
Δ	1° 25' 47"
D	2° 00' 23"
T	35.63
L	71.27
R	2855.73
PC	200TEMP+00.00
N	333568.723
E	605049.915
PT	200TEMP+71.27
N	333639.796
E	605044.714
SE	

CURVE	PN-TEMP-2
PI	201TEMP+22.95
N	333691.169
E	605039.016
Δ	7° 46' 53"
D	7° 32' 20"
T	51.69
L	103.22
R	760.00
PC	200TEMP+71.27
N	333639.796
E	605044.714
PT	201TEMP+74.48
N	333742.841
E	605040.327
SE	

CURVE	PN-TEMP-3
PI	203TEMP+38.28
N	333906.587
E	605044.481
Δ	7° 01' 26"
D	7° 32' 20"
T	46.64
L	93.17
R	760.00
PC	202TEMP+91.64
N	333859.960
E	605043.298
PT	203TEMP+84.81
N	333952.719
E	605051.357
SE	

CURVE	PN-TEMP-4
PI	204TEMP+39.10
N	334006.421
E	605059.360
Δ	8° 10' 21"
D	7° 32' 20"
T	54.30
L	108.41
R	760.00
PC	203TEMP+84.81
N	333952.719
E	605051.357
PT	204TEMP+93.21
N	334060.716
E	605059.649
SE	

CURVE	PN-TEMP-5
PI	205TEMP+02.41
N	334069.914
E	605059.697
Δ	0° 04' 38"
D	0° 25' 09"
T	9.20
L	18.40
R	13670.38
PC	204TEMP+93.21
N	334060.716
E	605059.649
PT	205TEMP+11.61
N	334079.113
E	605059.734
SE	

CURVE	CSE-TEMP-1
PI	0CSE+18.84
N	333641.629
E	605071.219
Δ	15° 56' 07"
D	88° 08' 50"
T	9.10
L	18.08
R	65.00
PC	0CSE+09.74
N	333634.048
E	605066.190
PT	0CSE+27.82
N	333647.538
E	605078.137
SE	

CURVE	CSE-TEMP-2
PI	0CSE+36.59
N	333653.265
E	605084.783
Δ	33° 36' 38"
D	197° 15' 15"
T	8.77
L	17.04
R	29.05
PC	0CSE+27.82
N	333647.538
E	605078.137
PT	0CSE+44.86
N	333654.355
E	605093.487
SE	

CURVE	CSW-TEMP-1
PI	0CSW+21.78
N	333658.039
E	605114.957
Δ	17° 45' 53"
D	41° 06' 17"
T	21.78
L	43.22
R	139.39
PC	-0CSW+-00.00
N	333668.099
E	605134.280
PT	0CSW+43.22
N	333654.355
E	605093.487
SE	

CURVE	CSW-TEMP-2
PI	0CSW+51.89
N	333653.082
E	605084.905
Δ	17° 49' 44"
D	103° 34' 52"
T	8.68
L	17.21
R	55.31
PC	0CSW+43.22
N	333654.355
E	605093.487
PT	0CSW+60.43
N	333654.498
E	605076.345
SE	

CURVE	CSW-TEMP-3
PI	0CSW+69.53
N	333656.331
E	605067.436
Δ	20° 37' 15"
D	114° 35' 30"
T	9.10
L	18.00
R	50.00
PC	0CSW+60.43
N	333654.498
E	605076.345
PT	0CSW+78.43
N	333661.184
E	605059.743
SE	

POB PN ALIGNMENT
STA 100PN+99.78
N = 332706.62
E = 605075.16

CURVE	PN-1
PI	101PN+17.67
N	332824.550
E	605071.546
Δ	11° 47' 48"
D	7° 31' 09"
T	78.72
L	156.89
R	762.00
PC	100PN+38.95
N	332745.830
E	605072.217
PT	101PN+95.84
N	332901.470
E	605054.796
SE	

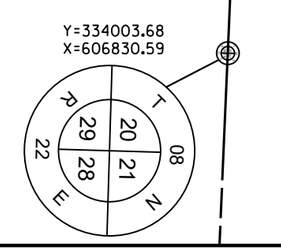
CURVE	PN-2
PI	102PN+87.63
N	332991.164
E	605035.263
Δ	13° 44' 18"
D	7° 31' 09"
T	91.80
L	182.71
R	762.00
PRC	101PN+95.84
N	332901.470
E	605054.796
PT	103PN+78.55
N	333082.931
E	605037.591
SE	N/A

CURVE	PN-3
PI	113PN+36.90
N	334040.971
E	605061.895
Δ	2° 07' 56"
D	0° 25' 10"
T	254.20
L	508.34
R	13660.00
PC	110PN+82.70
N	333786.856
E	605055.448
PRC	115PN+91.04
N	334295.151
E	605058.882
SE	N/A

CURVE	PN-4
PI	116PN+79.58
N	334383.691
E	605057.833
Δ	5° 04' 12"
D	2° 51' 53"
T	88.55
L	176.98
R	2000.00
PRC	115PN+91.04
N	334295.151
E	605058.882
PRC	117PN+68.01
N	334471.977
E	605064.612
SE	N/A

CURVE	PN-5
PI	118PN+86.91
N	334590.522
E	605073.715
Δ	6° 48' 15"
D	2° 51' 53"
T	118.89
L	237.51
R	2000.00
PRC	117PN+68.01
N	334471.977
E	605064.612
PCC	120PN+05.52
N	334709.311
E	605068.709
SE	N/A

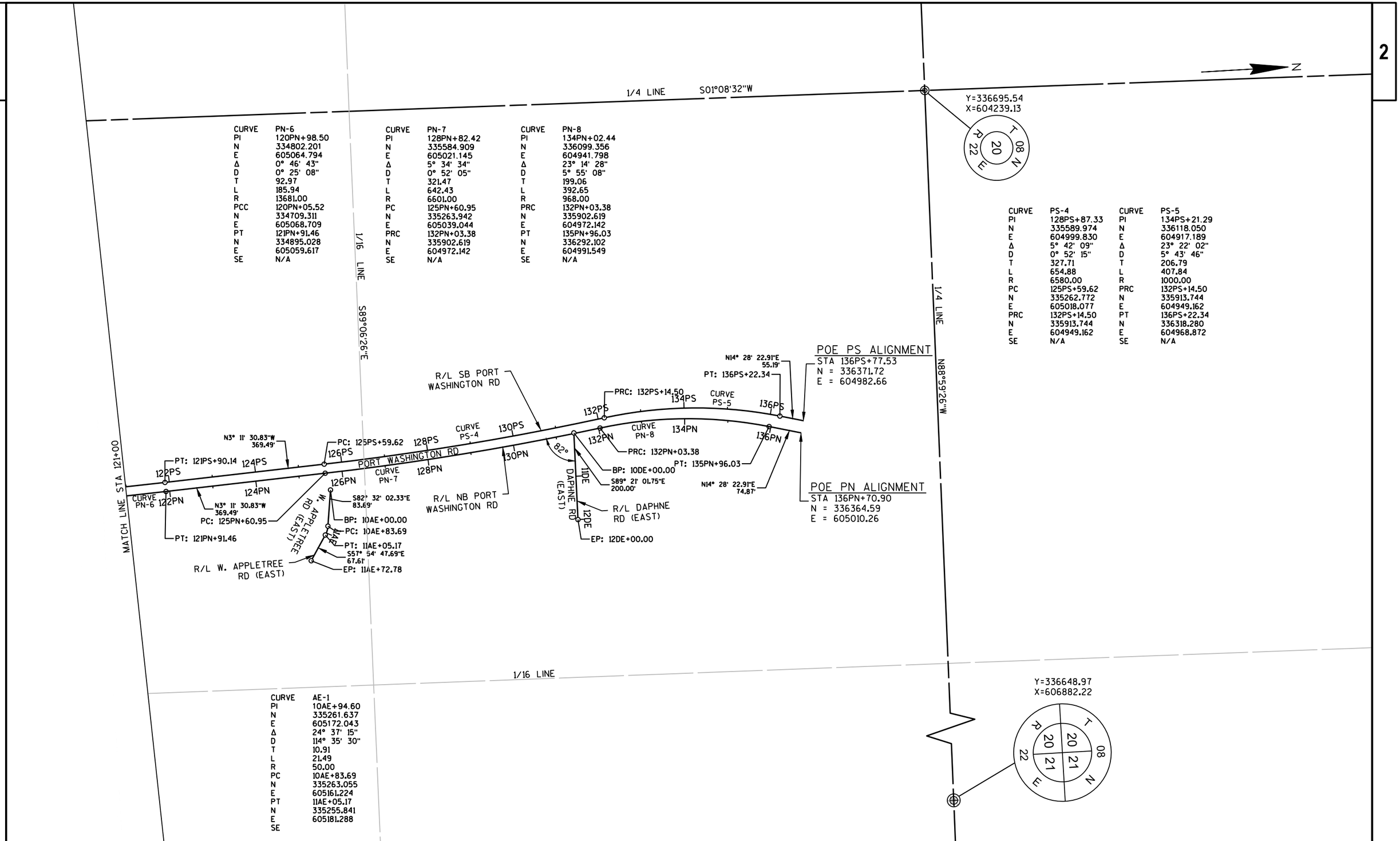
CURVE	PS-1
PI	100PS+92.81
N	332797.744
E	605054.435
Δ	4° 57' 39"
D	7° 25' 18"
T	33.44
L	66.84
R	772.00
PC	100PS+59.37
N	332764.305
E	605053.930
PT	101PS+26.22
N	332831.101
E	605052.046
SE	N/A



CURVE	PS-2
PI	103PS+41.68
N	333046.012
E	605036.655
Δ	5° 32' 58"
D	7° 31' 09"
T	36.93
L	73.80
R	762.00
PC	103PS+04.75
N	333009.175
E	605039.293
PT	103PS+78.55
N	333082.931
E	605037.591
SE	N/A

CURVE	PS-3
PI	116PS+36.72
N	334340.698
E	605069.498
Δ	4° 38' 42"
D	0° 25' 10"
T	554.02
L	1107.43
R	13660.00
PC	110PS+82.70
N	333786.856
E	605055.448
PRC	121PS+90.14
N	334893.859
E	605038.650
SE	N/A

PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	ALIGNMENT PLAN: PORT WASHINGTON RD	SHEET	E



CURVE	PN-6
PI	120PN+98.50
N	334802.201
E	605064.794
Δ	0° 46' 43"
D	0° 25' 08"
T	92.97
L	185.94
R	13681.00
PCC	120PN+05.52
N	334709.311
E	605068.709
PT	121PN+91.46
N	334895.028
E	605059.617
SE	N/A

CURVE	PN-7
PI	128PN+82.42
N	335584.909
E	605021.145
Δ	5° 34' 34"
D	0° 52' 05"
T	321.47
L	642.43
R	6601.00
PC	125PN+60.95
N	335263.942
E	605039.044
PRC	132PN+03.38
N	335902.619
E	604972.142
SE	N/A

CURVE	PN-8
PI	134PN+02.44
N	336099.356
E	604941.798
Δ	23° 14' 28"
D	5° 55' 08"
T	199.06
L	392.65
R	968.00
PRC	132PN+03.38
N	335902.619
E	604972.142
PT	135PN+96.03
N	336292.102
E	604991.549
SE	N/A

CURVE	PS-4
PI	128PS+87.33
N	335589.974
E	604999.830
Δ	5° 42' 09"
D	0° 52' 15"
T	327.71
L	654.88
R	6580.00
PC	125PS+59.62
N	335262.772
E	605018.077
PRC	132PS+14.50
N	335913.744
E	604949.162
SE	N/A

CURVE	PS-5
PI	134PS+21.29
N	336118.050
E	604917.189
Δ	23° 22' 02"
D	5° 43' 46"
T	206.79
L	407.84
R	1000.00
PRC	132PS+14.50
N	335913.744
E	604949.162
PT	136PS+22.34
N	336318.280
E	604968.872
SE	N/A

CURVE	AE-1
PI	10AE+94.60
N	335261.637
E	605172.043
Δ	24° 37' 15"
D	114° 35' 30"
T	10.91
L	21.49
R	50.00
PC	10AE+83.69
N	335263.055
E	605161.224
PT	11AE+05.17
N	335255.841
E	605181.288
SE	

PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	ALIGNMENT PLAN: PORT WASHINGTON RD	SHEET	E

R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
1229-04-21,1229-04-24		
	4.01	--

PLAT OF RIGHT OF WAY REQUIRED FOR
IH-43 NORTH - SOUTH FREEWAY

--

IH-43 MILWAUKEE COUNTY

CONSTRUCTION PROJECT NUMBER --

CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W LINE
PROPERTY LINE (P.L.)
LOT, TIE, AND OTHER MINOR LINES
SLOPE INTERCEPT
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC) (W (TYPE))
FEE ACQUISITION AREA (HATCHING VARIES BY OWNER)
TEMP. LIMITED EASEMENT AREA
EASEMENT AREA (HIGHWAY, PERMANENT LIMITED, OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING
BUILDING (TO BE REMOVED)
BRIDGE

PARCEL NUMBER (25)
SECTION CORNER (18, 23, 24, 16, 15, 9)
NOTATION FOR COMBUSTABLE FLUIDS (CAUTION)
NOTATION FOR HIGH VOLTAGE TRANSMISSION LINES (CAUTION)

UTILITY NUMBER (40)
R/W MONUMENT
NON-MONUMENTED R/W POINT
FOUND IRON PIN (IP)
VALVE (GAS, WATER, ETC.) (TYPE)
SIGN
OFF-PREMISE SIGN (#1-25) SIGN

ACCESS CONTROLLED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
NATIONAL GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
PARALLEL OFFSETS

CONVENTIONAL UTILITY SYMBOLS

WATER	W
GAS	G
TELEPHONE	T
OVERHEAD TRANSMISSION LINES	OH
ELECTRIC	E
CABLE TELEVISION	TV
FIBER OPTIC	FO
SANITARY SEWER	SAN
STORM SEWER	SS
ELECTRIC TOWER	

	NON-COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		

CURVE DATA ABBREVIATIONS

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ /DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	OUTLOT	OL
ACRES	AC	PAGE	P
AHEAD	AH	POINT OF TANGENCY	PT
ALUMINUM	ALUM	PROPERTY LINE	PL
AND OTHERS	ET AL	RECORDED AS	(100')
BACK	BK	REEL / IMAGE	R/I
BLOCK	BLK	REFERENCE LINE	R/L
CENTERLINE	C/L	PERMANENT LIMITED EASEMENT	PLE
CERTIFIED SURVEY MAP	CSM	POINT OF BEGINNING	POB
CONCRETE	CONC	POINT OF CURVATURE	PC
COUNTY	CO	POINT OF COMPOUND CURVE	PCC
COUNTY TRUNK HIGHWAY	CTH	POINT OF INTERSECTION	PI
DISTANCE	DIST	REMAINING	REM
CORNER	COR	RESTRICTIVE DEVELOPMENT EASEMENT	RDE
DOCUMENT NUMBER	DOC	RIGHT	RT
EASEMENT	EASE	RIGHT OF WAY	R/W
EXISTING	EX	SECTION	SEC
GAS VALVE	GV	SEPTIC VENT	SEPV
GRID NORTH	GN	SQUARE FEET	SF
HIGHWAY EASEMENT	HE	STATE TRUNK HIGHWAY	STH
IDENTIFICATION	ID	STATION	STA
LAND CONTRACT	LC	TELEPHONE PEDESTAL	TP
LEFT	LT	TEMPORARY LIMITED EASEMENT	TLE
MONUMENT	MON	TRANSPORTATION PROJECT PLAT	TPP
NATIONAL GEODETIC SURVEY	NGS	UNITED STATES HIGHWAY	USH
NUMBER	NO	VOLUME	V

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE BASED ON THE WISCONSIN COUNTY COORDINATE SYSTEM, MILWAUKEE COUNTY ZONE, NAD-83 (2007) ADJUSTMENT (IN US SURVEY FEET). COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT OF WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 3/4"X24" REBAR) AND WILL BE PLACED PRIOR TO COMPLETION OF THE PROJECT.

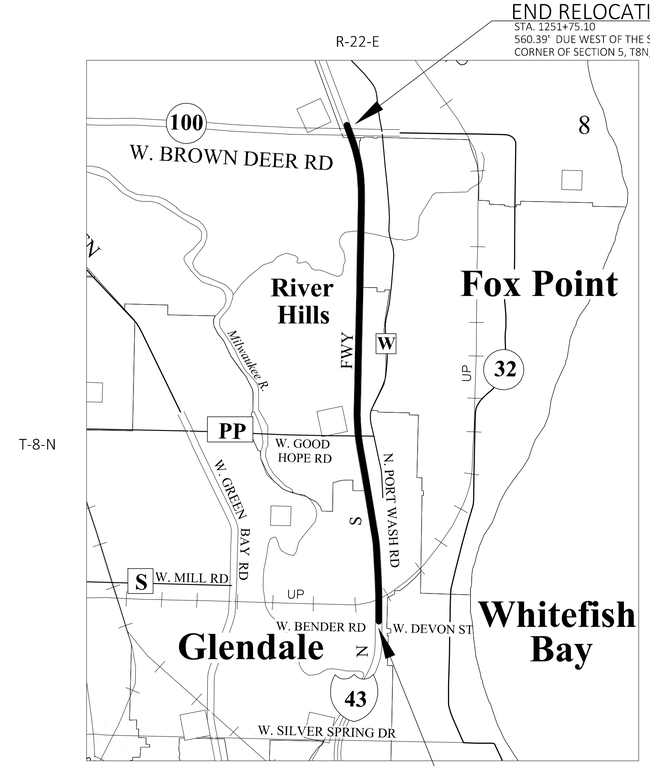
RIGHT OF WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

INFORMATION FOR BASIS OF EXISTING HIGHWAY RIGHT-OF-WAY POINTS OF REFERENCE AND ACCESS CONTROL ARE LISTED ON DETAIL SHEETS.

END RELOCATION ORDER
STA. 1251+75.10
560.39' DUE WEST OF THE SOUTH CORNER OF SECTION 5, T8N, R22E



T-8-N

T-8-N

BEGIN RELOCATION ORDER
STA. 1078+35.60
1332.54' SOUTH AND 762.57' EAST OF THE NORTH CORNER OF SECTION 29, T8N, R22E

N

LAYOUT
SCALE 0 1 MI.

THIS PLAT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSES ONLY. DEEDS MUST BE CHECKED TO DETERMINE PROPERTY BOUNDARIES AND ACCESS RIGHTS.

kapur all in
7711 N. Port Washington Road
Milwaukee, Wisconsin 53217
414.751.7200
kapurinc.com

ORIGINAL PLANS PREPARED BY

WISCONSIN BRIAN M. DODGE S-2848 WAUKESHA, WI LAND SURVEYOR

5/15/2020 (Date)

Brian M. Dodge
BRIAN M. DODGE
KAPUR & ASSOCIATES
P.L.S. NUMBER 2848

REVISION DATE
07/14/2020
09/15/2020

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED FOR THE DEPARTMENT

DATE: _____ (Signature)

SCHEDULE OF LANDS & INTERESTS REQUIRED

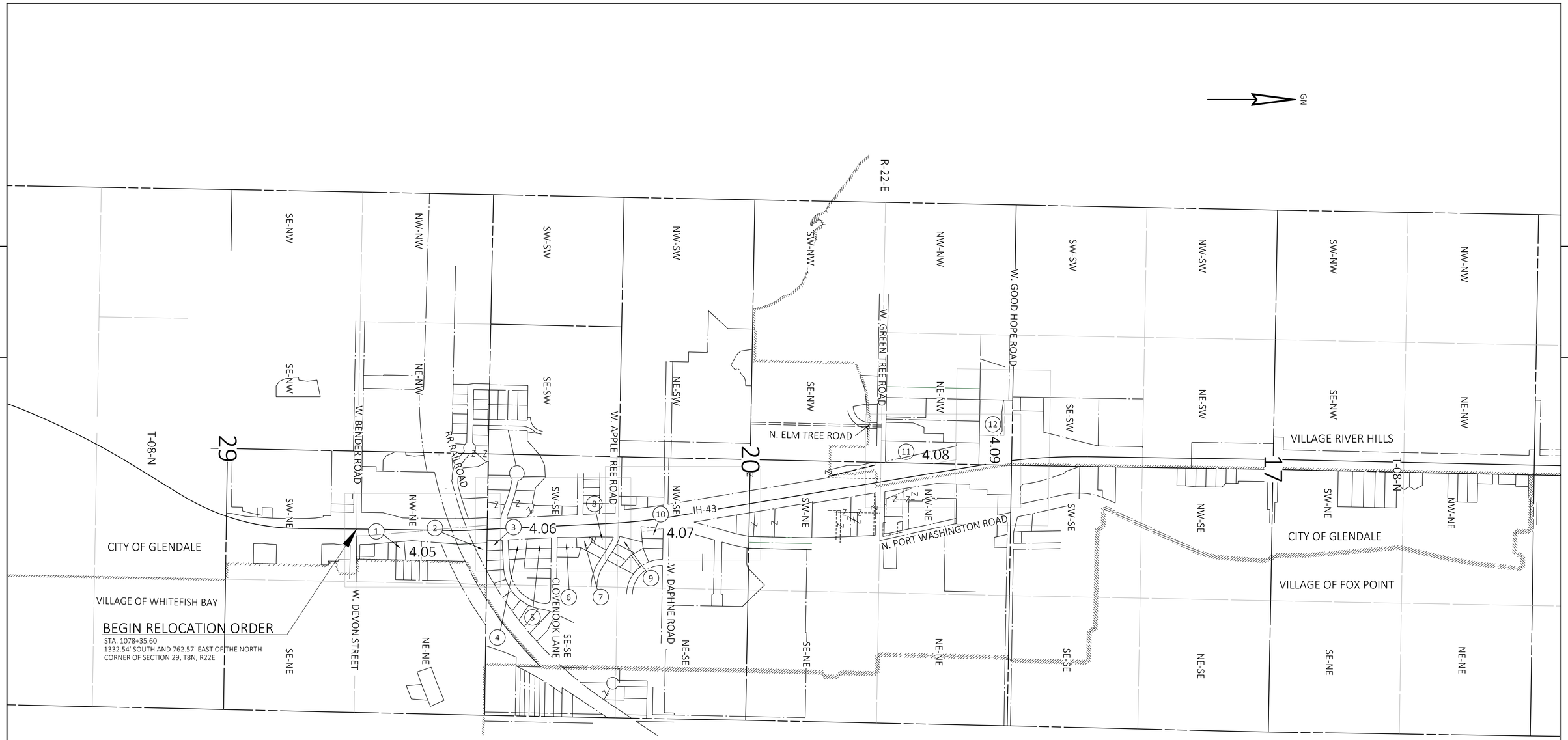
AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED.

* DENOTES AREAS COMPUTED

4

PROJECT FUNDING I.D.	PARCEL NUMBER	SHEET NUMBER	*OWNER	INTEREST REQUIRED	TOTAL ACRES	R/W ACRE(S) REQUIRED			TOTAL ACRES REMAINING	P.L.E. ACRES	T.L.E. ACRES	PARCEL NUMBER
						NEW	EXISTING	TOTAL				
1229-04-21	1	4.05	6260 LLC	FEE, TLE	0.372	0.008	0.000	0.008	0.364		0.223	1
1229-04-21	2	4.05	Bobby Sanford JR & Sukari Sanford	FEE	0.500	0.500	0.000	0.500	0.000			2
1229-04-24	3	4.06	Max & Dawn Veytsman	FEE	0.361	0.361	0.000	0.361	0.000			3
1229-04-21	4	4.06	Angeline Cianciolo	FEE	0.431	0.431	0.000	0.431	0.000			4
1229-04-21	5	4.06	Gloria L. Nieskes	FEE	0.585	0.585	0.000	0.585	0.000			5
1229-04-21	6	4.06	Robert M. & Vicki L. Chiger	FEE	0.453	0.453	0.000	0.453	0.000			6
1229-04-24	7	4.06	Giles L. & Mary F. Grimes	FEE	0.393	0.393	0.000	0.393	0.000			7
1229-04-24	8	4.06	Kehri Stowers	FEE	0.510	0.510	0.000	0.510	0.000			8
1229-04-24	9	4.07	Florence M. Mahnke Estates	FEE, TLE	0.615	0.332	0.000	0.332	0.283		0.036	9
1229-04-21	10	4.07	David Bramel	FEE	0.559	0.409	0.150	0.559	0.000			10
1229-04-21	11	4.08	Juan M. Aguirre & Chantel M. Aguirre	FEE, TLE	4.961	1.499	1.430	2.929	2.032		0.077	11
1229-04-21	12	4.09	Ronald R. Rubio & Laurie J. Rubio	FEE, TLE, AR	4.654	0.198	2.560	2.758	1.896		0.075	12
1229-04-21	13	4.10	The Archway, LLC, a Wisconsin limited liability company	FEE, AR	0.697	0.049	0.135 *	0.184	0.513			13

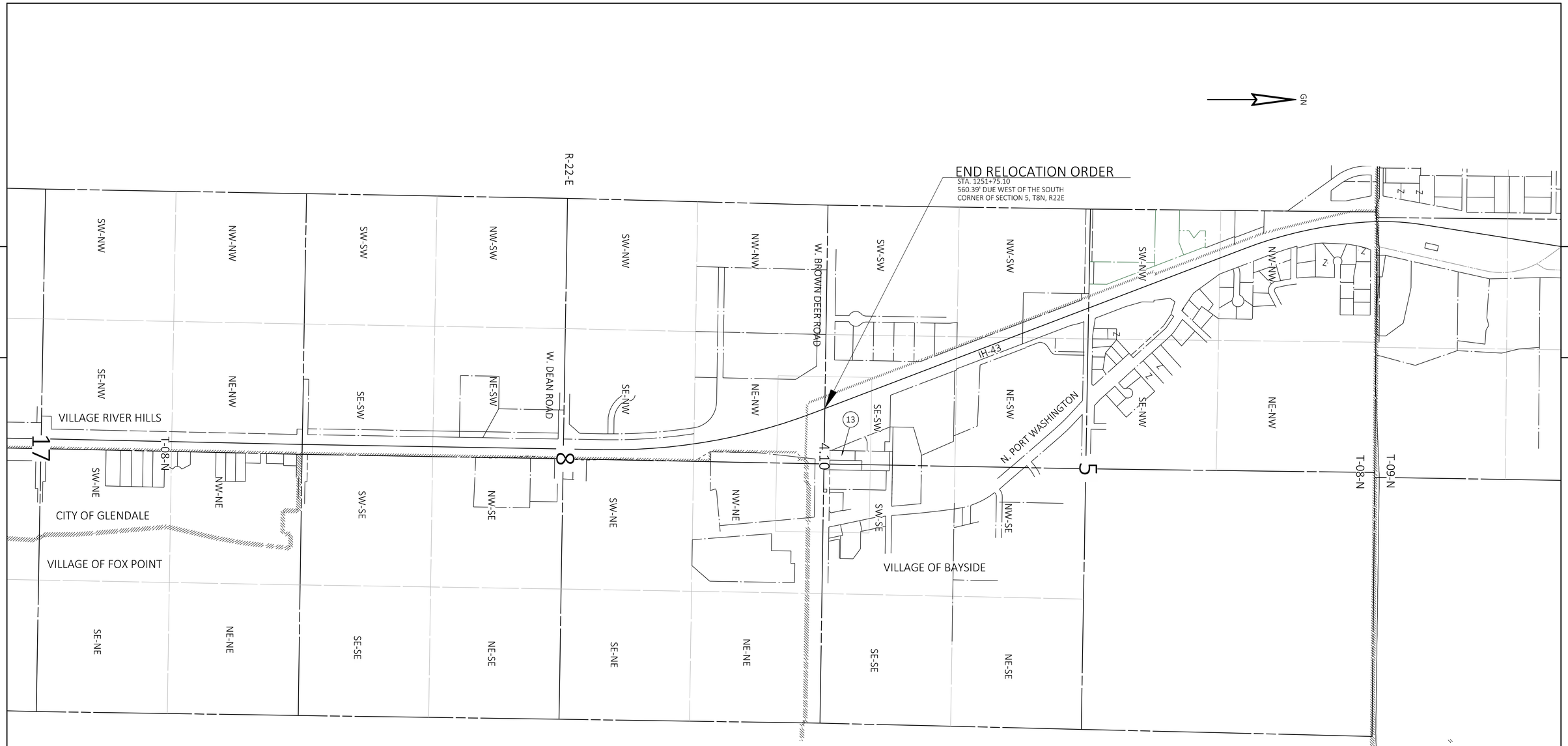
NUMBER	SHEET NUMBER	OWNER	INTEREST REQUIRED
500	4.06-4.08, 4.10	WE ENERGIES ELECTRIC	RELEASE OF RIGHTS
504	4.06-4.08, 4.10	AT&T WISCONSIN	RELEASE OF RIGHTS
512	4.09	US CELLULAR	RELEASE OF RIGHTS



REVISION DATE	DATE: MAY 15, 2020	SCALE, FEET	HWY: IH-43	STATE R/W PROJECT NUMBER 1229-04-21 / 24	PLAT SHEET 4.03	
7/14/2020 9/15/2020	GRID FACTOR N/A	0 500 1000	COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER --	PS&E SHEET _____	E

FILE NAME : RW_PLAT-1229-04-21_LANDSCH_LAYOUT.DWG
LAYOUT NAME - Layout 4.03

PLOT DATE : 9/15/2020 11:02 AM PLOT BY : BRIAN DODGE, PS PLOT NAME : PLOT SCALE : 1 IN:500 FT



REVISION DATE 7/14/2020 9/15/2020	DATE: MAY 15, 2020	SCALE, FEET 0 500 1000	HWY: IH-43	STATE R/W PROJECT NUMBER 1229-04-21 / 24	PLAT SHEET 4.04
	GRID FACTOR N/A		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER --	PS&E SHEET _____ **E**

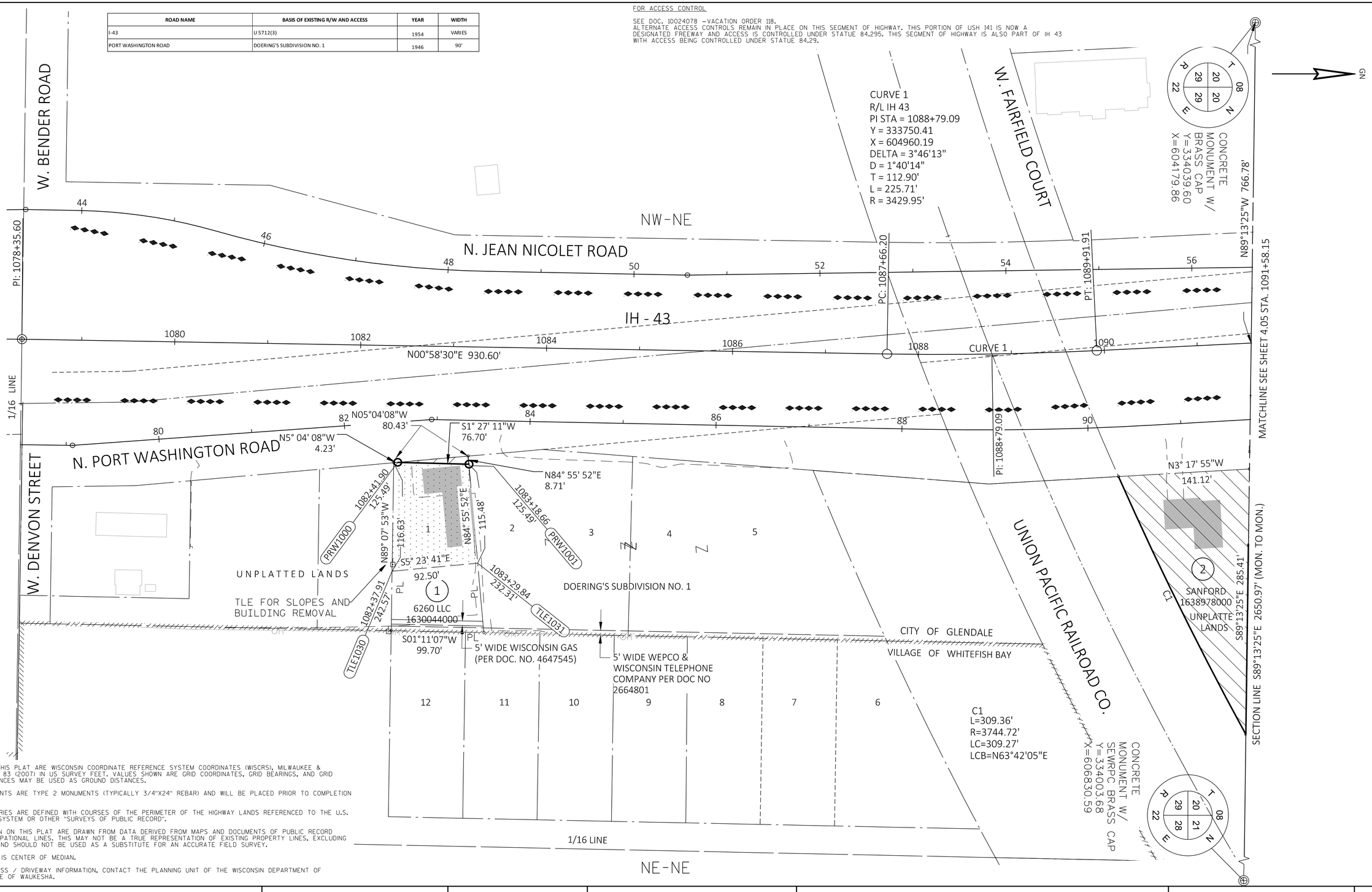
FILE NAME : RW_PLAT-1229-04-21_LANDSCH_LAYOUT.DWG
LAYOUT NAME - Layout 4.04

PLOT DATE : 9/15/2020 11:02 AM PLOT BY : BRIAN DODGE, PS PLOT NAME : PLOT SCALE : 1 IN:500 FT

ROAD NAME	BASIS OF EXISTING R/W AND ACCESS	YEAR	WIDTH
I-43	U 5712(3)	1954	VARIES
PORT WASHINGTON ROAD	DOERING'S SUBDIVISION NO. 1	1946	90'

FOR ACCESS CONTROL

SEE DOC. 10024078 -VACATION ORDER 118.
ALTERNATE ACCESS CONTROLS REMAIN IN PLACE ON THIS SEGMENT OF HIGHWAY. THIS PORTION OF USH 141 IS NOW A DESIGNATED FREEWAY AND ACCESS IS CONTROLLED UNDER STATUE 84.295. THIS SEGMENT OF HIGHWAY IS ALSO PART OF IH 43 WITH ACCESS BEING CONTROLLED UNDER STATUE 84.29.



POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), MILWAUKEE & OZAUKEE COUNTY, NAD 83 (2007) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT OF WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 3/4"X24" REBAR) AND WILL BE PLACED PRIOR TO COMPLETION OF THE PROJECT.

RIGHT OF WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

IH-43 REFERENCE LINE IS CENTER OF MEDIAN.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE OF WAUKESHA.

REVISION DATE 7/14/2020 9/15/2020	DATE: MAY 15, 2020	SCALE, FEET 0 20 50 100	HWY: I- 43	STATE R/W PROJECT NUMBER 1229-04-21 / 24	PLAT SHEET 4.05
	GRID FACTOR		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER --	PS&E SHEET ____ E

FILE NAME : RW_PLAT-1229-04-21_DETAIL.DWG
LAYOUT NAME - 4.06
PLOT DATE : 9/15/2020 11:02 AM PLOT BY : BRIAN DODGE, PS PLOT NAME : PLOT SCALE : 1:100

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), MILWAUKEE & OZAUKEE COUNTY, NAD 83 (2007) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT OF WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 3/4"X24" REBAR) AND WILL BE PLACED PRIOR TO COMPLETION OF THE PROJECT.

RIGHT OF WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

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IH-43 REFERENCE LINE IS CENTER OF MEDIAN.

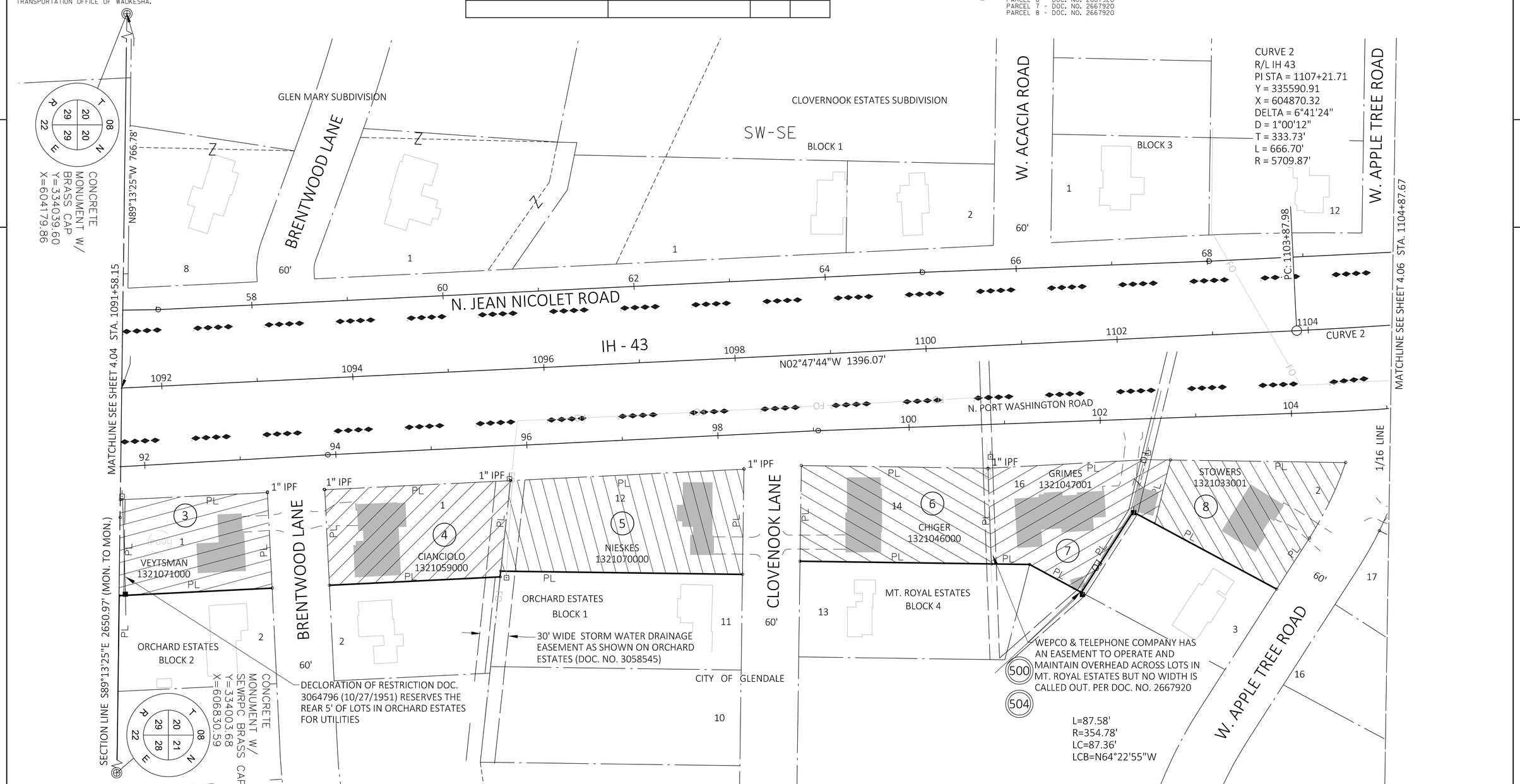
FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE OF WAUKESHA.

ROAD NAME	BASIS OF EXISTING R/W AND ACCESS	YEAR	WIDTH
I-43	U 5712(3)	1954	VARIES
PORT WASHINGTON ROAD	DOERING'S SUBDIVISION NO. 1	1946	90'

FOR ACCESS CONTROL
SEE DOC. 10024078 –VACATION ORDER 118.
ALTERNATE ACCESS CONTROLS REMAIN IN PLACE ON THIS SEGMENT OF HIGHWAY. THIS PORTION OF USH 141 IS NOW A DESIGNATED FREEWAY AND ACCESS IS CONTROLLED UNDER STATUE 84.295. THIS SEGMENT OF HIGHWAY IS ALSO PART OF IH 43 WITH ACCESS BEING CONTROLLED UNDER STATUE 84.29.

500 WE ENERGIES - ELECTRIC
PARCEL 3 - DOC. NO. 3064796
PARCEL 6 - DOC. NO. 2667920
PARCEL 7 - DOC. NO. 2667920
PARCEL 8 - DOC. NO. 2667920

504 AT&T WISCONSIN
PARCEL 3 - DOC. NO. 3064796
PARCEL 6 - DOC. NO. 2667920
PARCEL 7 - DOC. NO. 2667920
PARCEL 8 - DOC. NO. 2667920



REVISION DATE 7/14/2020 9/15/2020	DATE: MAY 15, 2020	SCALE, FEET 0 20 50 100	HWY: I- 43	STATE R/W PROJECT NUMBER 1229-04-21 / 24	PLAT SHEET 4.06
	GRID FACTOR		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER --	PS&E SHEET	E

FILE NAME : RW_PLAT-1229-04-21_DETAIL.DWG
LAYOUT NAME - 4.06
PLOT DATE : 9/15/2020 11:03 AM PLOT BY : BRIAN DODGE, PS PLOT NAME : PLOT SCALE : 1:100
WISDOT/CADDS SHEET 75

ROAD NAME	BASIS OF EXISTING R/W AND ACCESS	YEAR	WIDTH
I-43	F077-1(11)	1953	VARIES
W. BRENTWOOD LANE	ORCHARD ESTATES	1951	60'
W. CLOVERNOOK LANE	ORCHARD ESTATES	1951	30'
N. PORT WASHINGTON ROAD	MT. ROYAL ESTATES	1946	60'

FOR ACCESS CONTROL
SEE DOC. 10024078 –VACATION ORDER 118.
ALTERNATE ACCESS CONTROLS REMAIN IN PLACE ON THIS SEGMENT OF HIGHWAY. THIS PORTION OF USH 141 IS NOW A DESIGNATED FREEWAY AND ACCESS IS CONTROLLED UNDER STATUE 84.295. THIS SEGMENT OF HIGHWAY IS ALSO PART OF IH 43 WITH ACCESS BEING CONTROLLED UNDER STATUE 84.29.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), MILWAUKEE & OZAUKEE COUNTY, NAD 83 (2007) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

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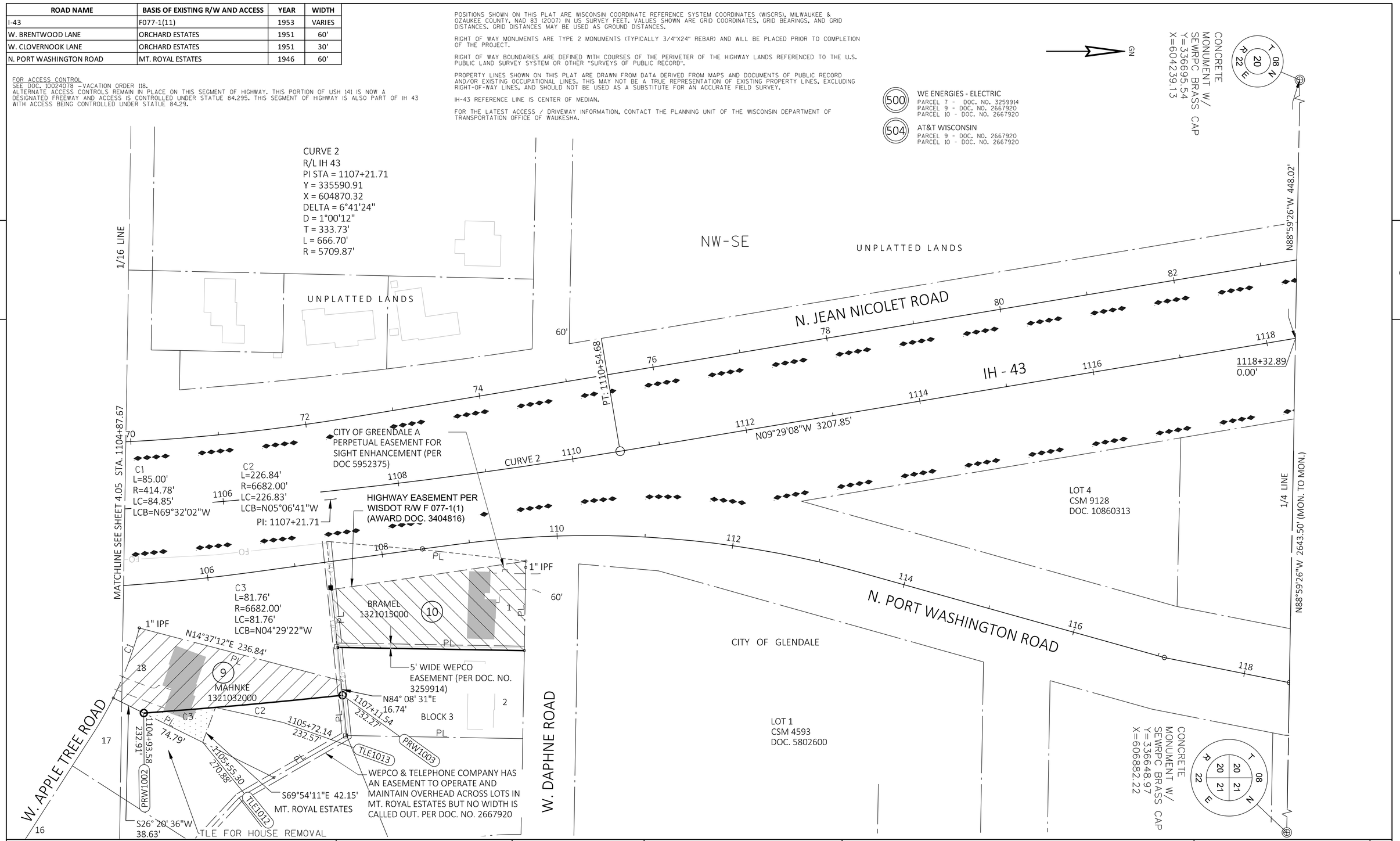
IH-43 REFERENCE LINE IS CENTER OF MEDIAN.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE OF WAUKESHA.



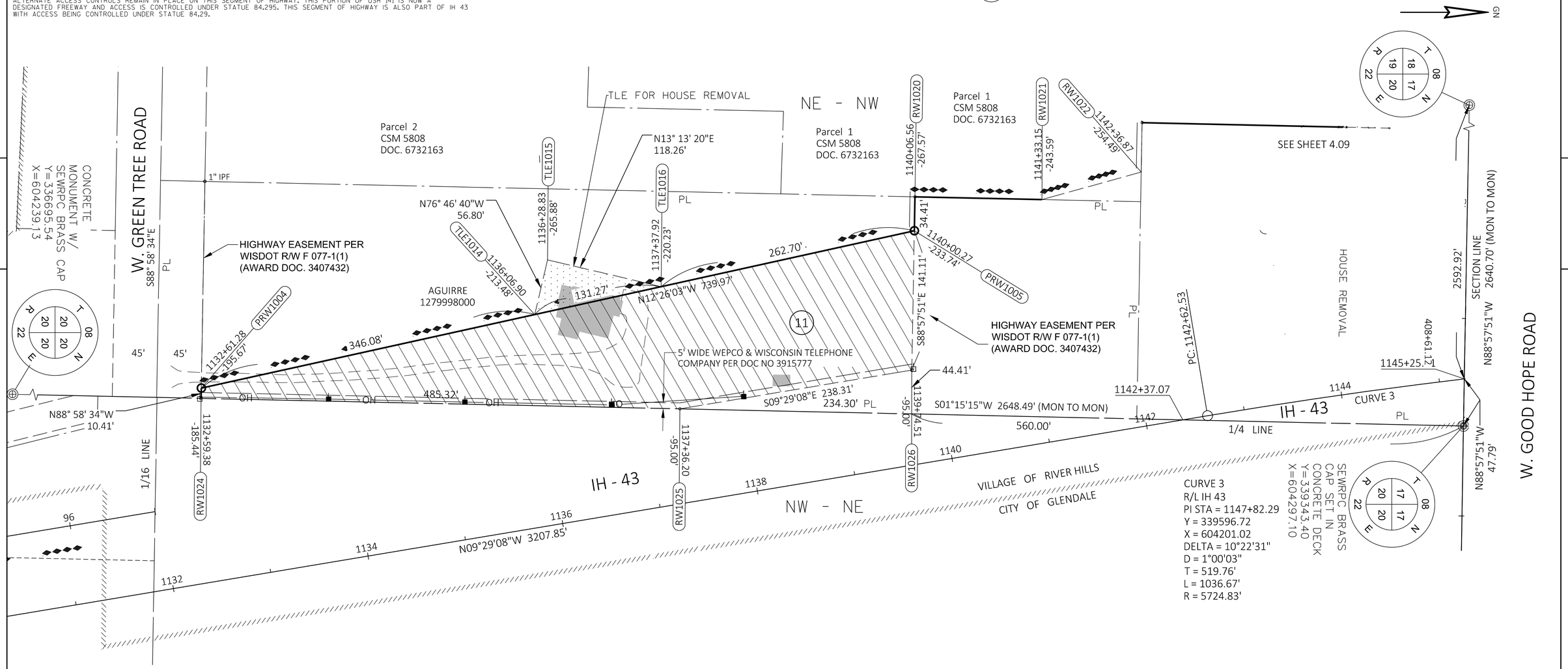
REVISION DATE	DATE: MAY 15, 2020	SCALE, FEET	HWY: I- 43	STATE R/W PROJECT NUMBER 1229-04-21 / 24	PLAT SHEET 4.07	
7/14/2020 9/15/2020	GRID FACTOR	0 20 50 100	COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER --	PS&E SHEET	E

FILE NAME : RW_PLAT-1229-04-21_DETAIL.DWG
LAYOUT NAME - 4.07
PLOT DATE : 9/15/2020 11:03 AM PLOT BY : BRIAN DODGE, PS PLOT NAME : PLOT SCALE : 1:100
WISDOT/CADDS SHEET 75

ROAD NAME	BASIS OF EXISTING R/W AND ACCESS	YEAR	WIDTH
I-43	F077-1(11)	1953	VARIES
N. PORT WASHINGTON ROAD	MT. ROYAL ESTATES	1946	60'
W. APPLE TREE ROAD	MT. ROYAL ESTATES	1946	60'

FOR ACCESS CONTROL

SEE DOC. 10024078 –VACATION ORDER 118.
ALTERNATE ACCESS CONTROLS REMAIN IN PLACE ON THIS SEGMENT OF HIGHWAY. THIS PORTION OF USH 141 IS NOW A DESIGNATED FREEWAY AND ACCESS IS CONTROLLED UNDER STATUE 84.295. THIS SEGMENT OF HIGHWAY IS ALSO PART OF IH 43 WITH ACCESS BEING CONTROLLED UNDER STATUE 84.29.



POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), MILWAUKEE & OZAUKEE COUNTY, NAD 83 (2007) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

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IH-43 REFERENCE LINE IS CENTER OF MEDIAN.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE OF WAUKESHA.

REVISION DATE 7/14/2020 9/15/2020	DATE: MAY 15, 2020	SCALE, FEET 0 20 50 100	HWY: I- 43	STATE R/W PROJECT NUMBER 1229-04-21 / 24	PLAT SHEET 4.08
	GRID FACTOR		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER --	PS&E SHEET	E

FILE NAME : RW_PLAT-1229-04-21_DETAIL.DWG
LAYOUT NAME - 4.08
PLOT DATE : 9/15/2020 11:03 AM PLOT BY : BRIAN DODGE, PS PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 75

ROAD NAME	BASIS OF EXISTING R/W AND ACCESS	YEAR	WIDTH
I-43	F077-1(1)	1953	VARIES
GREENTREE ROAD	F077-1(1)	1953	90'
GOOD HOPE ROAD	F077-1(1)	1953	160'

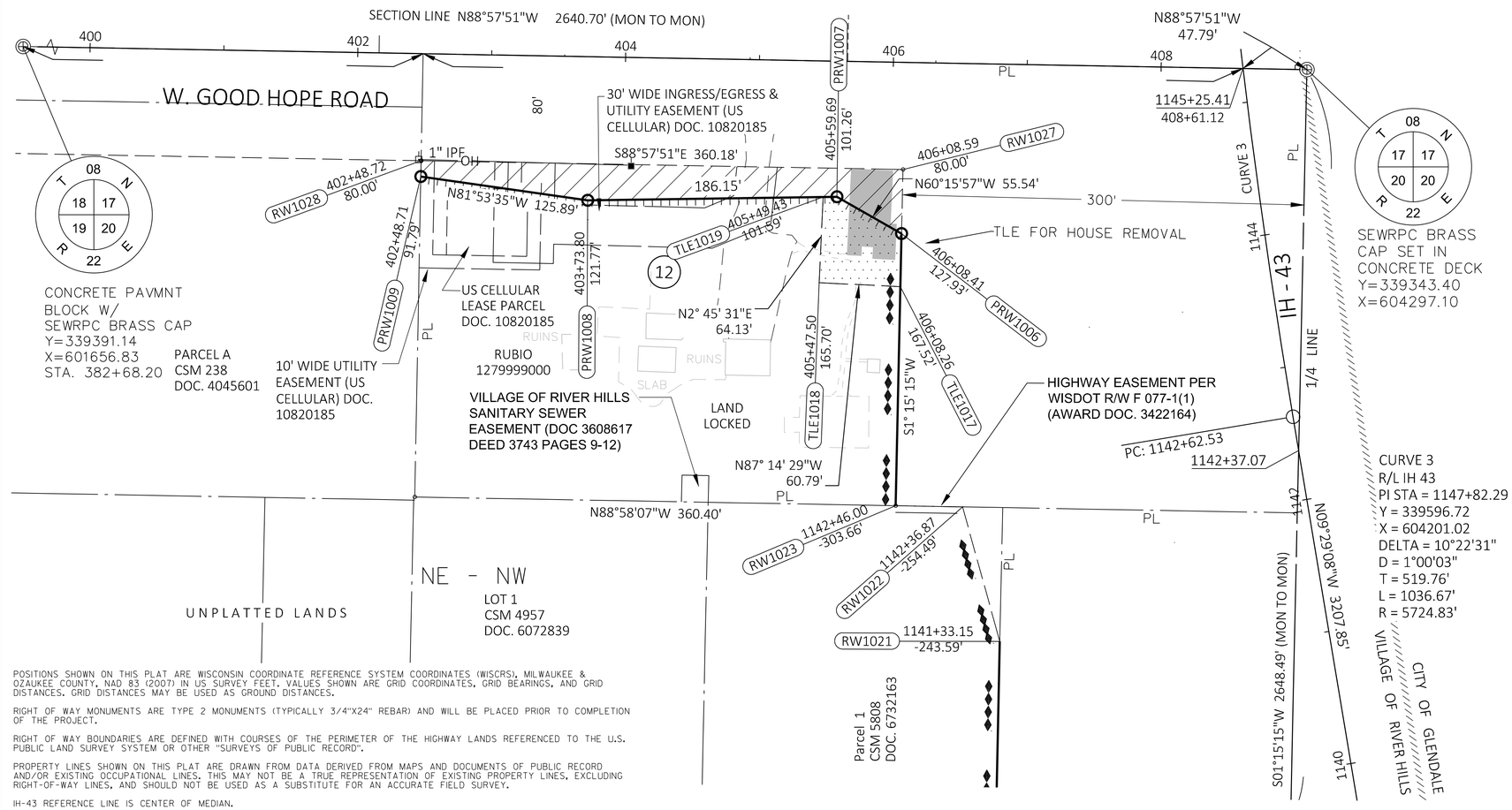
FOR ACCESS CONTROL
SEE DOC. 10024078 -VACATION ORDER 118.
ALTERNATE ACCESS CONTROLS REMAIN IN PLACE ON THIS SEGMENT OF HIGHWAY. THIS PORTION OF USH 141 IS NOW A DESIGNATED FREEWAY AND ACCESS IS CONTROLLED UNDER STATUE 84.295. THIS SEGMENT OF HIGHWAY IS ALSO PART OF IH 43 WITH ACCESS BEING CONTROLLED UNDER STATUE 84.29.

GN

512 US CELLULAR
PARCEL 12 - DOC. NO. 10820185

531 VILLAGE OF VILLAGE OF RIVER HILLS - SANITARY
PARCEL 12 - DOC. NO. 3608617

4



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IH-43 REFERENCE LINE IS CENTER OF MEDIAN.

FOR THE LATEST ACCESS / DIRVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE OF WAUKESHA.

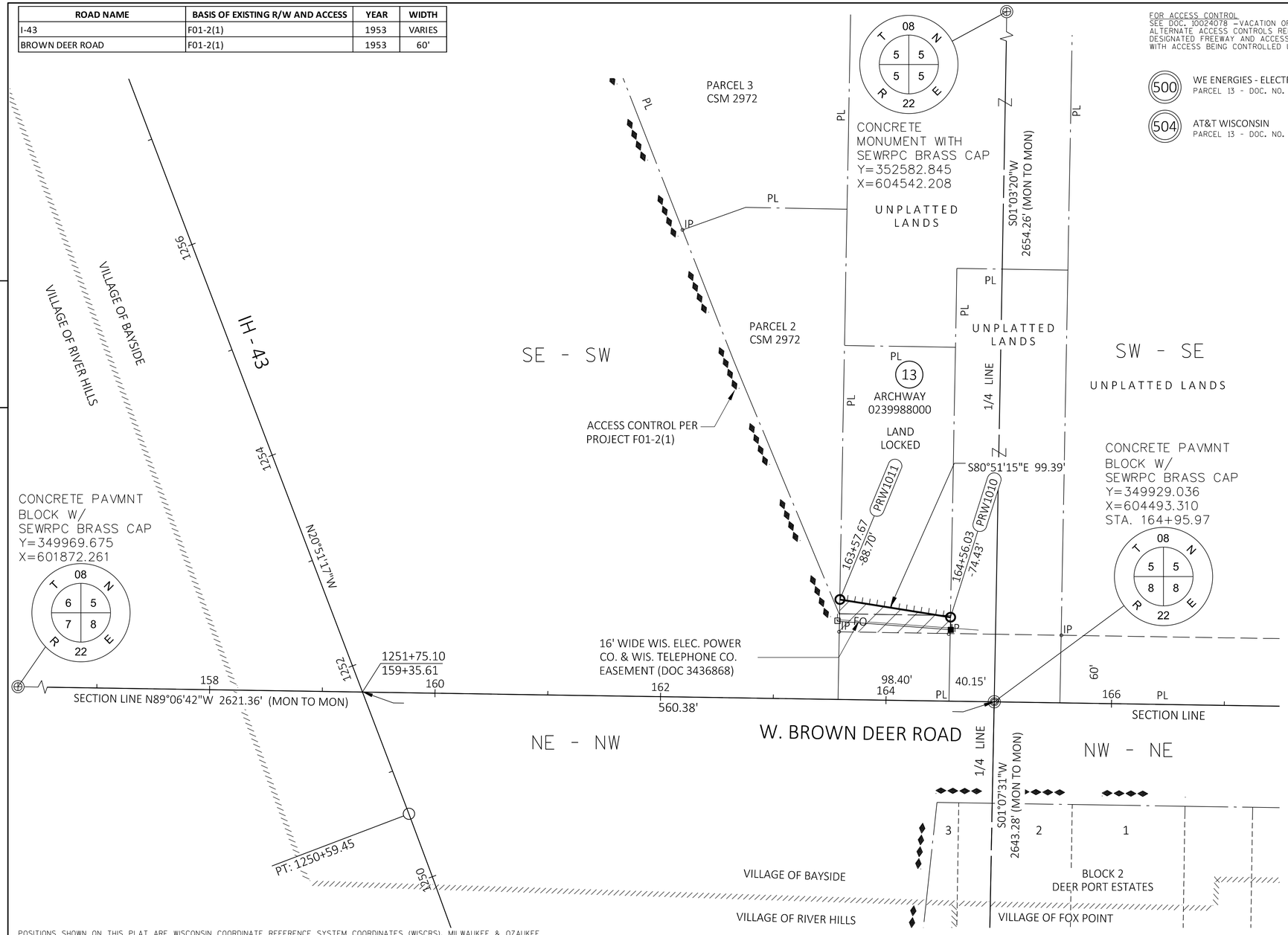
SEE SHEET 4.08

ROAD NAME	BASIS OF EXISTING R/W AND ACCESS	YEAR	WIDTH
I-43	F01-2(1)	1953	VARIES
BROWN DEER ROAD	F01-2(1)	1953	60'

FOR ACCESS CONTROL
SEE DOC. 10024078 –VACATION ORDER 118.
ALTERNATE ACCESS CONTROLS REMAIN IN PLACE ON THIS SEGMENT OF HIGHWAY. THIS PORTION OF USH 141 IS NOW A DESIGNATED FREEWAY AND ACCESS IS CONTROLLED UNDER STATUE 84.295. THIS SEGMENT OF HIGHWAY IS ALSO PART OF IH 43 WITH ACCESS BEING CONTROLLED UNDER STATUE 84.29.

500 WE ENERGIES - ELECTRIC
PARCEL 13 - DOC. NO. 3436868

504 AT&T WISCONSIN
PARCEL 13 - DOC. NO. 3436868



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REVISION DATE 7/14/2020 9/15/2020	DATE: MAY 15, 2020	SCALE, FEET 0 20 50 100	HWY: I- 43	STATE R/W PROJECT NUMBER 1229-04-21 / 24	PLAT SHEET 4.10
	GRID FACTOR		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER --	PS&E SHEET ____ E

FILE NAME : RW_PLAT-1229-04-21_DETAIL.DWG
LAYOUT NAME - 4.10
PLOT DATE : 9/15/2020 11:03 AM PLOT BY : BRIAN DODGE, PS PLOT NAME : PLOT SCALE : 1:100
WISDOT/CADDS SHEET 75

R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
1229-04-22		
	4.01	--

PLAT OF RIGHT OF WAY REQUIRED FOR

IH-43 NORTH - SOUTH FREEWAY

--

IH-43 MILWAUKEE COUNTY

CONSTRUCTION PROJECT NUMBER 1229-04-71

CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W LINE
PROPERTY LINE (P.L.)
LOT, TIE, AND OTHER MINOR LINES
SLOPE INTERCEPT
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC) (W (TYPE))
FEE ACQUISITION AREA (HATCHING VARIES BY OWNER)
TEMP. LIMITED EASEMENT AREA
EASEMENT AREA (HIGHWAY, PERMANENT LIMITED, OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING
BUILDING (TO BE REMOVED)
BRIDGE

PARCEL NUMBER (25)
SECTION CORNER (18, 23, 24, 16, 15, 9)
NOTATION FOR COMBUSTIBLE FLUIDS (CAUTION)
NOTATION FOR HIGH VOLTAGE TRANSMISSION LINES (CAUTION)

UTILITY NUMBER (40)
R/W MONUMENT
NON-MONUMENTED R/W POINT
FOUND IRON PIN (IP)
VALVE (GAS, WATER, ETC.) (TYPE)
SIGN
OFF-PREMISE SIGN (#1-25) SIGN

ACCESS CONTROLLED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
NATIONAL GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
PARALLEL OFFSETS

CONVENTIONAL UTILITY SYMBOLS

WATER	W
GAS	G
TELEPHONE	T
OVERHEAD TRANSMISSION LINES	OH
ELECTRIC	E
CABLE TELEVISION	TV
FIBER OPTIC	FO
SANITARY SEWER	SAN
STORM SEWER	SS
ELECTRIC TOWER	

	NON-COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		

CURVE DATA ABBREVIATIONS

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ/DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	OUTLOT	OL
ACRES	AC	PAGE	P
AHEAD	AH	POINT OF TANGENCY	PT
ALUMINUM	ALUM	PROPERTY LINE	PL
AND OTHERS	ET AL	RECORDED AS	(100')
BACK	BK	REEL / IMAGE	R/I
BLOCK	BLK	REFERENCE LINE	R/L
CENTERLINE	C/L	PERMANENT LIMITED EASEMENT	PLE
CERTIFIED SURVEY MAP	CSM	POINT OF BEGINNING	POB
CONCRETE	CONC	POINT OF CURVATURE	PC
COUNTY	CO	POINT OF COMPOUND CURVE	PCC
COUNTY TRUNK HIGHWAY	CTH	POINT OF INTERSECTION	PI
DISTANCE	DIST	REMAINING	REM
CORNER	COR	RESTRICTIVE DEVELOPMENT EASEMENT	RDE
DOCUMENT NUMBER	DOC	RIGHT	RT
EASEMENT	EASE	RIGHT OF WAY	R/W
EXISTING	EX	SECTION	SEC
GAS VALVE	GV	SEPTIC VENT	SEPV
GRID NORTH	GN	SQUARE FEET	SF
HIGHWAY EASEMENT	HE	STATE TRUNK HIGHWAY	STH
IDENTIFICATION	ID	STATION	STA
LAND CONTRACT	LC	TELEPHONE PEDESTAL	TP
LEFT	LT	TEMPORARY LIMITED EASEMENT	TLE
MONUMENT	MON	TRANSPORTATION PROJECT PLAT	TPP
NATIONAL GEODETIC SURVEY	NGS	UNITED STATES HIGHWAY	USH
NUMBER	NO	VOLUME	V

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE BASED ON THE WISCONSIN COUNTY COORDINATE SYSTEM, MILWAUKEE COUNTY ZONE, NAD-83 (2007) ADJUSTMENT (IN US SURVEY FEET). COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT OF WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 3/4"X24" REBAR) AND WILL BE PLACED PRIOR TO COMPLETION OF THE PROJECT.

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FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

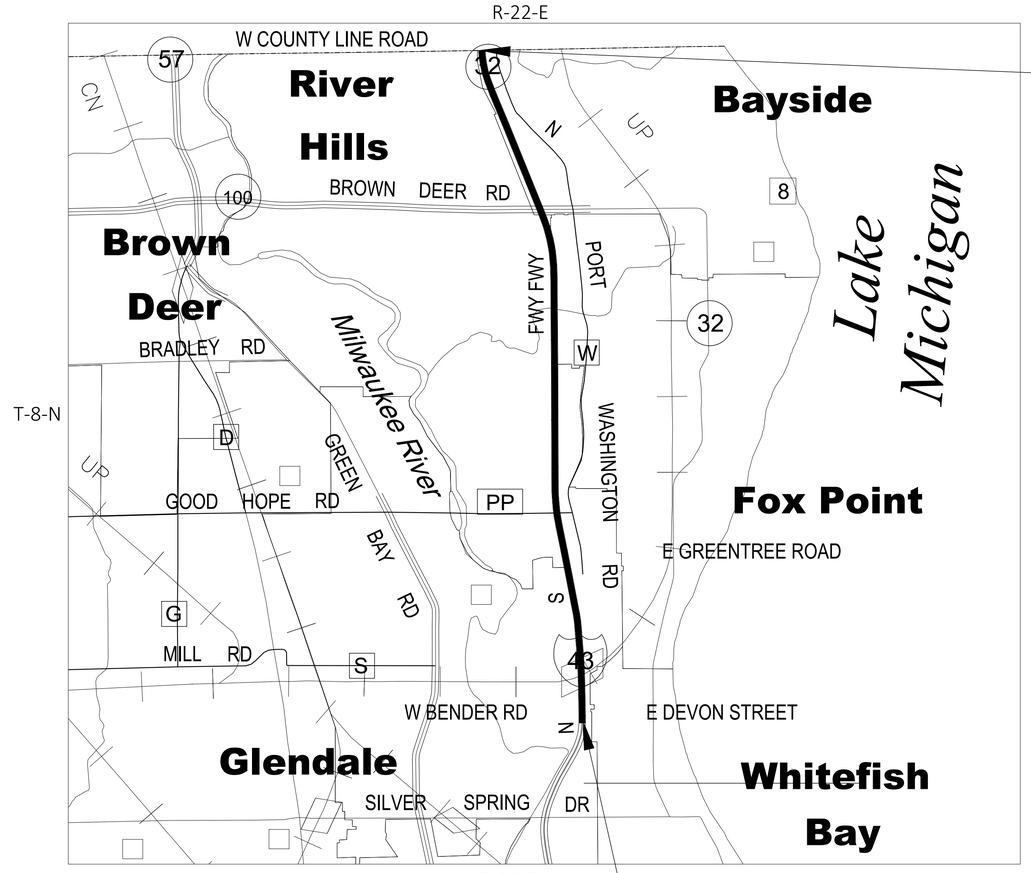
INFORMATION FOR BASIS OF EXISTING HIGHWAY RIGHT-OF-WAY POINTS OF REFERENCE AND ACCESS CONTROL ARE LISTED ON DETAIL SHEETS.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINE.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES. AS DEFINED HEREIN. INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON. THE RIGHT OF INGRESS AND EGRESS. AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLEs) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES. AS DEFINED HEREIN. INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHTS TO MAKE DR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES. PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

AN EASEMENT FOR HIGHWAY PURPOSES (HE), AS LONG AS SO USED. INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY.



END RELOCATION ORDER
PROJECT 1229-04-22
STA. 1311+02.02
39.88' EAST AND 0.33' SOUTH OF THE SOUTHEAST CORNER OF SECTION 32, T9N, R22E

N

BEGIN RELOCATION ORDER
PROJECT 1229-04-22
STA. 1078+35.60
1332.54' SOUTH AND 762.57' EAST OF THE NORTH CORNER OF SECTION 29, T8N, R22E

LAYOUT
SCALE 0 1.0 MI.

TOTAL NET LENGTH OF CENTERLINE = 4.41 MI.

THIS PLAT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSES ONLY. DEEDS MUST BE CHECKED TO DETERMINE PROPERTY BOUNDARIES AND ACCESS RIGHTS.

kapur all in
7711 N. Port Washington Road
Milwaukee, Wisconsin 53217
414.751.7200
kapurinc.com

ORIGINAL PLANS PREPARED BY

WISCONSIN BRIAN M. DODGE S-2848 WAUKESHA, WI LAND SURVEYOR

AUGUST 17, 2020 (Date)

Brian M. Dodge
BRIAN M. DODGE
KAPUR & ASSOCIATES
P.L.S. NUMBER 2848

REVISION DATE
10/09/2020

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED FOR THE DEPARTMENT

DATE: _____ (Signature)

SCHEDULE OF LANDS & INTERESTS REQUIRED

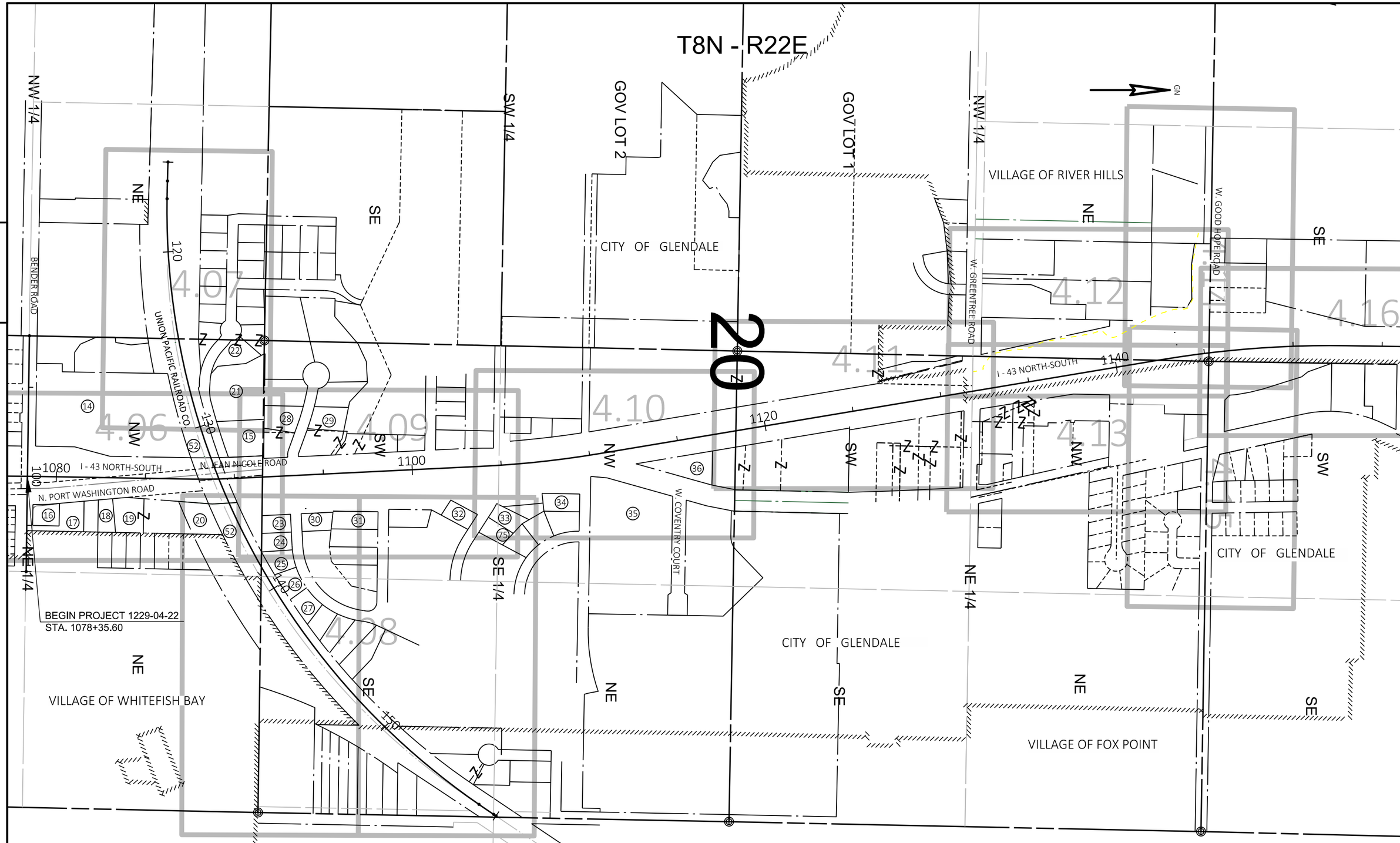
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

4

PARCEL NUMBER	SHEET NUMBER	OWNER	INTEREST REQUIRED	R/W ACRE(S) REQUIRED (ACRES) NEW	EXISTING	TOTAL	HE AREA	TLE AREA	PLE AREA	PARCEL NUMBER
14	4.06	Vill. of Whitefish Bay, Vill. of Fox Point and City of Glendale	FEE, TLE	0.012		0.012		0.178		14
15	4.06	Mildan, LLC, a Wisconsin limited liability company	FEE, TLE	0.038		0.038		0.178		15
16	4.06	6204 Port Washington Road LLC	FEE, TLE	0.020		0.020		0.038		16
17	4.06	6240, LLC	TLE	7 S.F.		7 S.F.		0.032		17
18	4.06	Kivley Investments, LLC	TLE					0.022		
19	4.06	Landmark Credit Union, Daniel C Stern & Casey-Gohsman Building	FEE,TLE	0.093		0.093		0.192		19
20	4.06	Village of Whitefish Bay	FEE,TLE	0.072		0.072		0.312		20
21	4.07	Timothy S. and Whitney S. Sheridan	FEE, TLE	0.052		0.052		0.048		21
22	4.07	Charles E & Allene K Faber (per GIS)	FEE	0.004		0.004				22
23	4.08	Michael Del Fava & Colleen Del Fava	TLE					0.023		23
24	4.08	Martin W. Foral	PLE, TLE					0.016	0.010	24
25	4.08	Michael F. McCormack	PLE						0.067	25
26	4.08	Berel and Barbara E. Lutsky Trust	PLE						0.074	26
27	4.08	Geri A. Wilkinson	PLE						0.076	27
28	4.09	William E. and Elizabeth A. Krohn, as Trustees of the William E. and Elizabeth A. Krohn Trust	FEE, TLE	0.025		0.025		0.074		28
29(2)	4.09	Glenda G. Gaddi-Geli and Christopher Geli	TLE					0.085		29
30	4.09	JoEllyn A. Reitman, as Trustee of the JoEllyn A. Reitman Revocable Living Trust	PLE, TLE					0.007	0.005	30
31(2)	4.09	Cary C & Andrea L Bums (Per GIS)	PLE, TLE					0.015	0.006	31
32(2)	4.09	Ulric L. Cobb	FEE, TLE	0.055		0.055		0.035		32
33(2)	4.09	Daniel Burrell Jr. and Jenice Marie Burrell	TLE					0.032		33
34	4.10	David E Matthews	FEE, TLE	0.034		0.034		0.066		34
35	4.10	Glendale Housing Partners Limited Partnership, a Wisconsin limited liability partnership	FEE, TLE	0.440		0.440		0.500		35
36	4.10	Associated Bank NA (Per GIS)	FEE, TLE	0.103		0.103		0.099		
37	4.29	Richard F Coury, et al	TLE					0.094		37
38	4.29	Roberto D. Castro	TLE					0.021		38
39	4.29	Nancy K. Zachow	PLE, TLE					0.047	0.054	39
40	4.29	Michael J. and Kelly Z. Press	TLE					0.032		40
41	4.30	Lemuel M. and Sandra D. Eaton	TLE					0.026		41
42	4.30	Steggeman Investments, LLC	TLE					0.041		42
43	4.30	Mirza N. Beg and Elizabeth A. Beg	FEE, TLE	0.008		0.008		0.087		43
44	4.30	Daniel D. and Leah M. Leyrer	FEE	0.057		0.057				44
45	4.30	Paul H. and Jennifer K. Bailey	FEE	0.040		0.040				45
46	4.30	Dowell 2012 Joint Revocable Trust	FEE	0.102		0.102				46
47	4.30	William and Mary K. Sosnay	FEE	0.078		0.078				47
48	4.30	Tilak W. and Swarna Nagodawithana, as trustees of the Nagodawithana Living Trust dated Oct. 21, 1999	FEE, TLE	0.101		0.101		0.053		48
49	4.30	HELEN L SHAPIRO	TLE					0.010		49
50	4.31	CARL A GAGLIANO	FEE, TLE	0.040		0.040		0.004		50
51	4.31	THE RIVER RANCH TRUST	TLE					0.004		51
52	4.06-4.08	UNION PACIFIC RAILROAD CO.	HE, TLE				0.523	9.294		52
75(2)	4.06-4.09	MARYANN MULLANEY	TLE					0.019		75

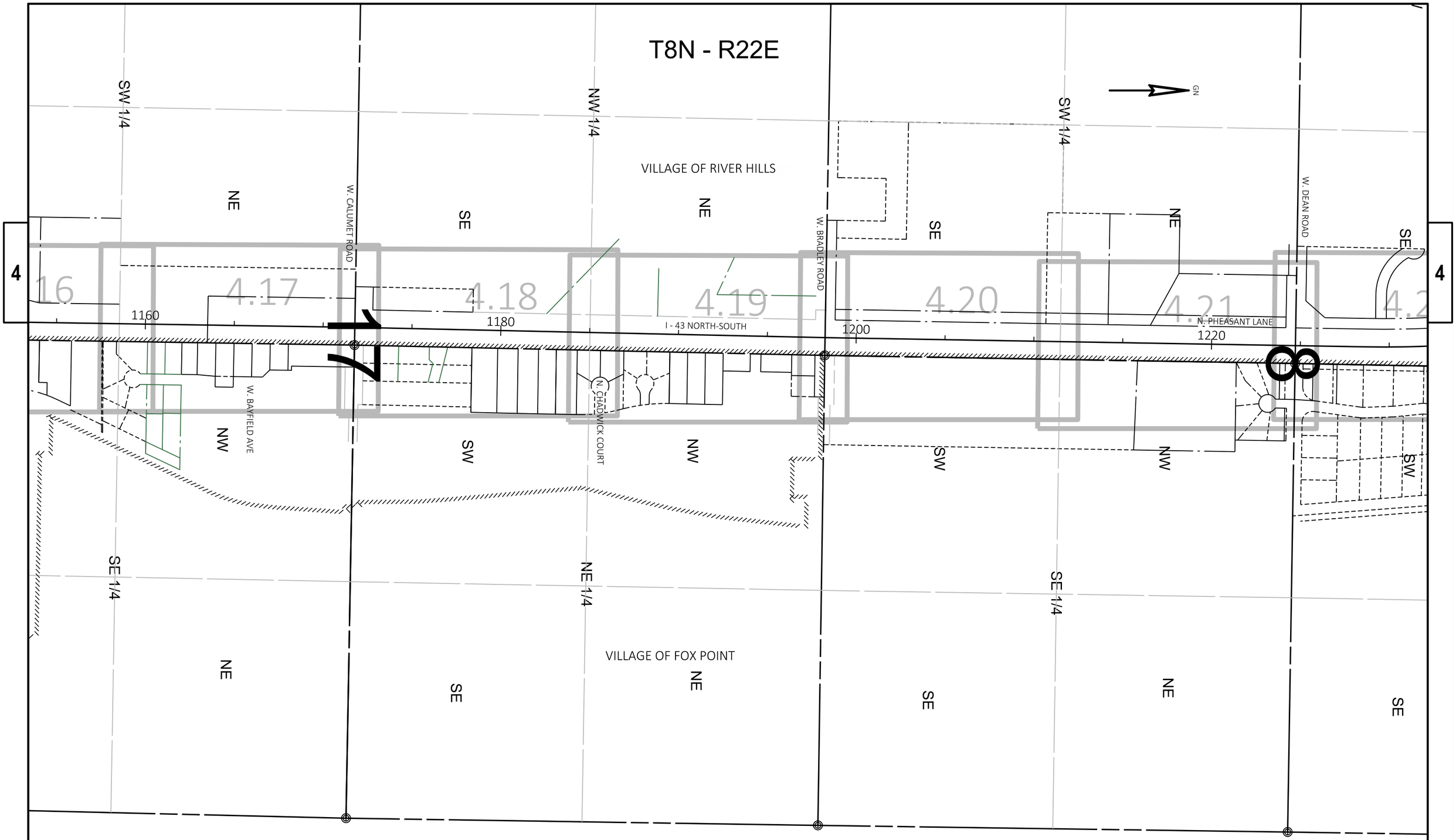
500	4.06-4.10, 4.29,4.30	WE-ENERGIES - ELECTRIC	RELEASE OF RIGHTS						500
501	4.10	WE ENERGIES GAS	RELEASE OF RIGHTS						501
504	4.06-4.10	AT&T Wisconsin	RELEASE OF RIGHTS						504
521	4.06, 4.08	FOX POINT, VILLAGE OF - WATER MAIN	RELEASE OF RIGHTS						521
541	4.06	CITY OF GLENDALE - WATER	RELEASE OF RIGHTS						541

4



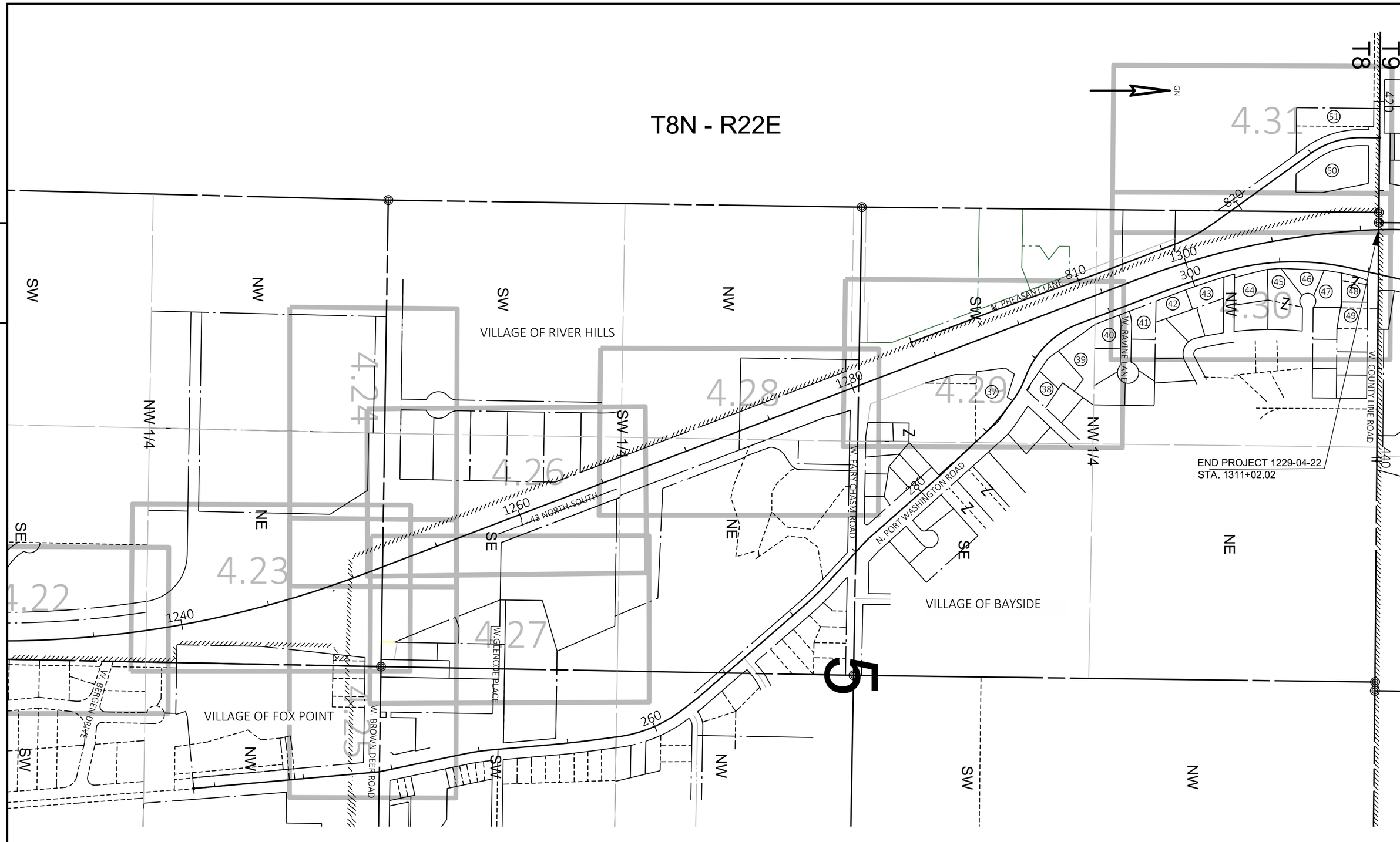
REVISION DATE 10/09/2020	DATE: AUGUST 17, 2020	SCALE, FEET 0 250 500	HWY: IH-43	STATE R/W PROJECT NUMBER 1229-04-22	PLAT SHEET 4.03	
	GRID FACTOR N/A		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER 1229-04-71	PS&E SHEET ____	E

FILE NAME : RW_PLAT-1229-04-22_LANDSCH_LAYOUT-RO1.DWG
LAYOUT NAME - Layout 4.03
PLOT DATE : 10/9/2020 3:58 PM PLOT BY : ISAIAH MERRIWEATHER PLOT NAME : PLOT SCALE : 1 IN:500 FT



REVISION DATE 10/09/2020	DATE: AUGUST 17, 2020	SCALE, FEET 0 250 500	HWY: IH-43	STATE R/W PROJECT NUMBER 1229-04-22	PLAT SHEET 4.04
	GRID FACTOR N/A		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER 1229-04-71	PS&E SHEET _____ E

FILE NAME : RW_PLAT-1229-04-22_LANDSCH_LAYOUT-RO1.DWG
LAYOUT NAME - Layout 4.03
PLOT DATE : 10/9/2020 3:58 PM PLOT BY : ISAIAH MERRIWEATHER PLOT NAME : PLOT SCALE : 1 IN:500 FT



REVISION DATE 10/09/2020	DATE: AUGUST 17, 2020	SCALE, FEET 0 250 500	HWY: IH-43	STATE R/W PROJECT NUMBER 1229-04-22	PLAT SHEET 4.05
	GRID FACTOR N/A		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER 1229-04-71	PS&E SHEET ____ E

FILE NAME : RW_PLAT-1229-04-22_LANDSCH_LAYOUT-RO1.DWG
LAYOUT NAME - Layout 4.03
PLOT DATE : 10/9/2020 3:58 PM PLOT BY : ISAIAH MERRIWEATHER PLOT NAME : PLOT SCALE : 1 IN:500 FT

POSITIONS SHOWN ON THIS PLAT ARE BASED ON THE WISCONSIN COUNTY COORDINATE SYSTEM, MILWAUKEE COUNTY ZONE, NAD-83 (2007) ADJUSTMENT (IN US SURVEY FEET). COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT OF WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 3/4"X24" REBAR) AND WILL BE PLACED PRIOR TO COMPLETION OF THE PROJECT.

RIGHT OF WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

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IH-43 REFERENCE LINE IS CENTER OF MEDIAN

FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

Curve Table			
Curve #	Length	Radius	Delta
C23	98.75'	808.50'	6°59'52"
C25	84.62'	284.50'	17°02'27"
C31	68.54'	3744.72'	1°02'55"
C33	84.78'	3894.72'	1°14'50"
C34	67.55'	3894.72'	0°59'38"
C35	28.23'	3894.72'	0°24'55"
C41	65.61'	3689.22'	1°01'08"

Curve Table			
Curve #	Length	Radius	Delta
C1	22.82'	19.00'	68°49'41"
C3	212.34'	3694.72'	3°17'34"
C4	41.43'	3894.72'	0°36'34"
C5	114.36'	3658.53'	1°47'28"
C9	39.32'	3894.72'	0°34'42"
C10	2.96'	4044.72'	0°02'31"
C12	195.44'	3689.22'	3°02'07"
C14	32.95'	4044.72'	0°28'00"
C15	14.40'	4044.72'	0°12'14"
C17	84.03'	3744.72'	1°17'08"
C21	39.72'	25.80'	88°11'13"
C22	89.17'	798.50'	6°23'55"

STATION AND OFFSET TABLE

POINT	STATION	OFFSET
TLE2113	1078+75.91	190.73
TLE2100	1078+80.05	-189.25
PRW2000	1078+80.08	-179.22
ERW2500	1078+80.10	-170.00
TLE2114	1078+88.42	175.25
PRW2007	1078+96.38	164.89
PRW2039	1079+40.98	-174.87
TLE2101	1079+42.04	-184.82
ERW2543	1079+60.12	155.33
PRW2001	1079+75.45	-170.00
PRW2008	1079+85.02	155.54
TLE2115	1079+86.62	165.41
PRW2009	1080+35.61	147.33
TLE2116	1080+36.93	157.25
TLE2102	1080+46.94	-170.00
ERW2502	1080+99.50	-170.00
TLE2117	1081+81.39	141.95
TLE2103	1082+34.95	-136.14
TLE2119	1082+37.69	125.94
TLE2118	1082+37.72	141.46
ERW2501	1082+99.50	-120.00
TLE2105	1083+04.14	-145.00
TLE2104	1083+04.14	-135.05
PRW2010	1083+17.68	117.47
PRW2011	1083+18.60	126.13
TLE2120	1083+21.44	152.93
TLE2106	1083+30.42	-145.00

STATION AND OFFSET TABLE

POINT	STATION	OFFSET
TLE2120	1083+21.44	152.93
TLE2106	1083+30.42	-145.00
TLE2107	1083+36.31	-130.00
ERW2538	1083+97.66	109.00
TLE2121	1084+94.32	143.56
TLE2108	1086+80.43	-130.00
TLE2122	1087+02.93	159.52
TLE2123	1087+08.68	172.72
HE2232	1087+24.98	-200.00
TLE2109	1087+39.12	-159.02
PRW2225	1087+39.66	154.61
PRW2012	1087+41.16	129.66
TLE2256	1087+50.46	-200.34
TLE2124	1088+50.18	275.28
ERW2539	1088+53.23	137.76
PRW2226	1088+63.66	163.80
ERW2227	1088+73.73	139.65
HE2230	1088+78.25	200.00
TLE2125	1088+89.14	226.90
HE2233	1088+90.23	-200.00
ERW2508	1089+07.61	-322.71
TLE2144	1089+13.65	199.41
ERW2229	1089+17.18	-120.00
TLE2221	1089+30.36	-323.14
TLE2133	1089+33.17	-259.66
TLE2127	1089+35.17	-253.21
TLE2128	1089+69.50	-253.54
ERW2503	1089+71.92	-119.09

STATION AND OFFSET TABLE

POINT	STATION	OFFSET
PRW2002	1089+72.63	-135.27
PRW2003	1089+83.86	-138.80
PRW2220	1089+84.50	-136.90
PRW2004	1090+01.79	-123.78
TLE2129	1090+02.90	-143.75
ERW2228	1090+08.60	136.30
HE2231	1090+33.89	200.00
PRW2005	1090+83.70	-119.11
TLE2130	1090+84.27	-139.11

STATION AND OFFSET TABLE
RAIL ROAD ALIGNMENT

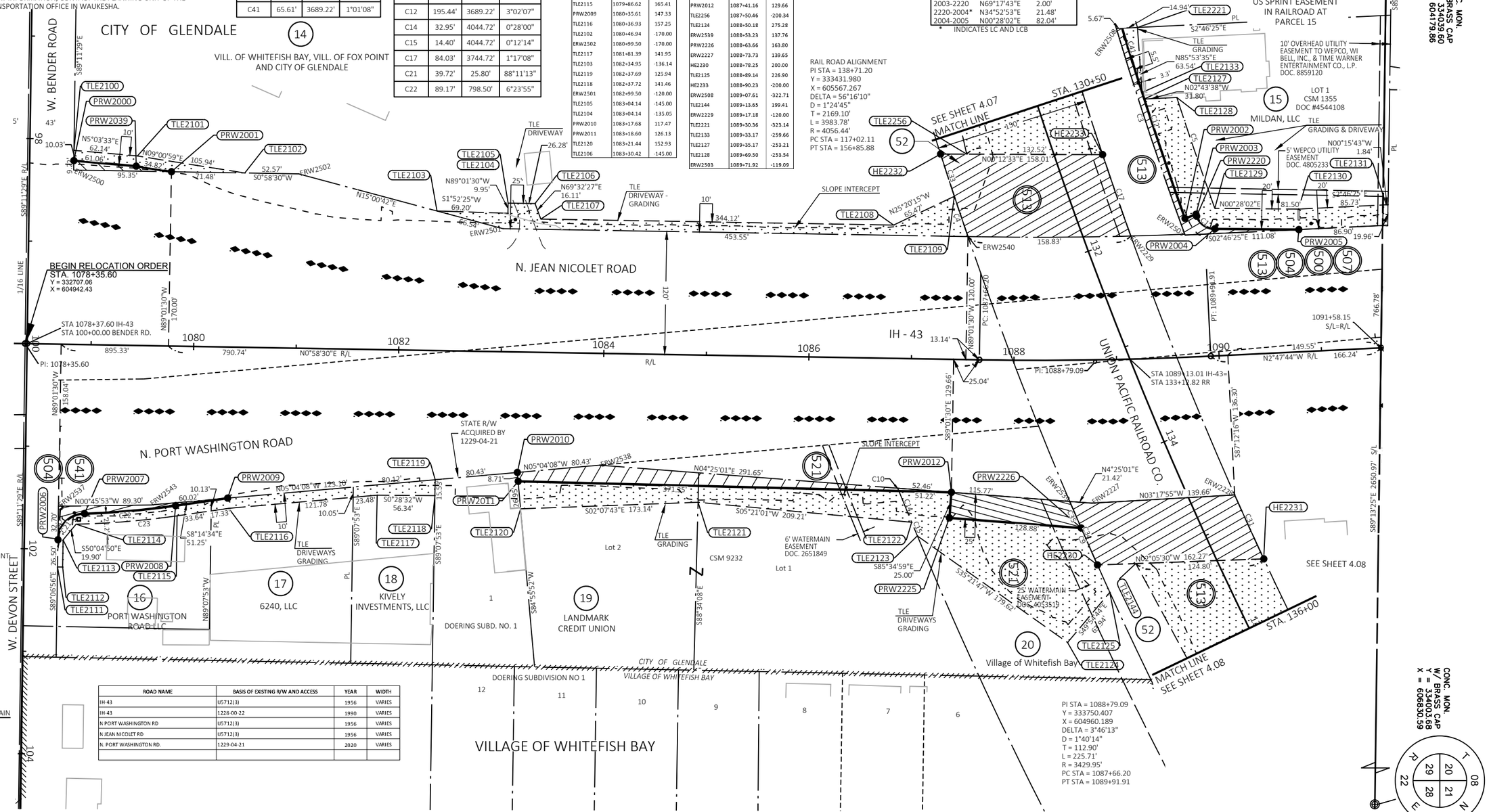
POINT	STATION	OFFSET
TLE2221	1089+30.36	-323.14
TLE2133	1089+33.17	-259.66
TLE2127	1089+35.17	-253.21
TLE2128	1089+69.50	-253.54

COURSE TABLE

POINT NO.	BEARING	DISTANCE
2002-2003	N20°42'17"W	11.34'
2003-2220	N69°17'43"E	2.00'
2220-2004*	N34°52'53"E	21.48'
2004-2005	N00°28'02"E	82.04'

* INDICATES LC AND LCB

RAIL ROAD ALIGNMENT
PI STA = 138+71.20
Y = 333431.980
X = 605567.267
DELTA = 56°16'10"
D = 1°24'45"
T = 2169.10'
L = 3983.78'
R = 4056.44'
PC STA = 117+02.11
PT STA = 156+85.88



WE ENERGIES - ELECTRIC
PARCEL 15 - DOC. NO. 3856057
PARCEL 15 - DOC. NO. 4805233
PARCEL 15 - DOC. NO. 8859120

AT&T WISCONSIN
PARCEL 15 - DOC. NO. 3856057
PARCEL 15 - DOC. NO. 8859120
PARCEL 16 - NO RECORDED EASMENT

CHARTER
PARCEL 15 - DOC. NO. 8859120

US SPRINT
PARCEL 15 - DOC. NO. 10351439
PARCEL 52 - DOC. NO. 10351439

VILLAGE OF FOX POINT - WATER MAIN
PARCEL 19 - DOC. NO. 62079
PARCEL 19 - DOC. NO. 2651849
PARCEL 20 - DOC. NO. 4053519

VILLAGE OF GLENDALE - WATER
PARCEL 16 - DOC. NO. 4647924

ROAD NAME	BASIS OF EXISTING R/W AND ACCESS	YEAR	WIDTH
IH 43	U5712(3)	1956	VARIES
IH 43	1228-00-22	1990	VARIES
N PORT WASHINGTON RD	U5712(3)	1956	VARIES
N JEAN NICOLET RD	U5712(3)	1956	VARIES
N. PORT WASHINGTON RD.	1229-04-21	2020	VARIES

REVISION DATE 10/09/2020	DATE: AUGUST 17, 2020	SCALE, FEET 0 50 100	HWY: IH - 43
	GRID FACTOR		COUNTY: MILWAUKEE

STATE R/W PROJECT NUMBER	1229-04-22	PLAT SHEET 4.06
CONSTRUCTION PROJECT NUMBER	1229-04-71	PS&E SHEET ____ E

FILE NAME : RW_PLAT-1229-04-22_DETAIL.DWG
LAYOUT NAME 4.06
PLOT DATE : 10/9/2020 3:58 PM
PLOT BY : ISAIAH MERRIWEATHER
PLOT NAME : ----
PLOT SCALE : 1:100
WISDOT/CADDS SHEET 75

ROAD NAME	BASIS OF EXISTING R/W AND ACCESS	YEAR	WIDTH
IH-43	US712(3)	1956	VARIES
N. JEAN NICOLET RD	US712(3)	1956	VARIES
W. FAIRFEILD COURT	NO RECORDED DOCUMENTS	-	VARIES

STATION AND OFFSET TABLE
RAIL ROAD ALIGNMENT

POINT	STATION	OFFSET
TLE2240	115+84.85	-53.80
TLE2241	115+84.85	84.20
TLE2242	116+99.86	91.45
TLE2239	117+49.71	-56.63
TLE2238	118+64.31	-109.76
TLE2237	119+15.78	-70.17
TLE2236	122+50.19	-80.77
PRW2038	126+89.56	-158.10
TLE2243	126+89.99	59.11
PRW2037	126+92.53	-162.81
TLE2235	126+97.20	-85.34
ERW2542	127+70.01	-121.84
PRW2042	127+71.72	-127.09
ERW2510	127+96.19	-113.51
PRW2224	127+97.98	-118.73
PRW2036	128+03.05	-117.14
PRW2035	128+04.44	-121.44
TLE2222	128+07.54	-130.97
ERW2509	128+72.00	-97.90
PRW2223	128+72.58	-107.90
TLE2234	128+73.16	-117.89
PRW2033	129+71.87	-102.03
PRW2034	129+71.93	-106.53
TLE2221	130+06.32	-116.10

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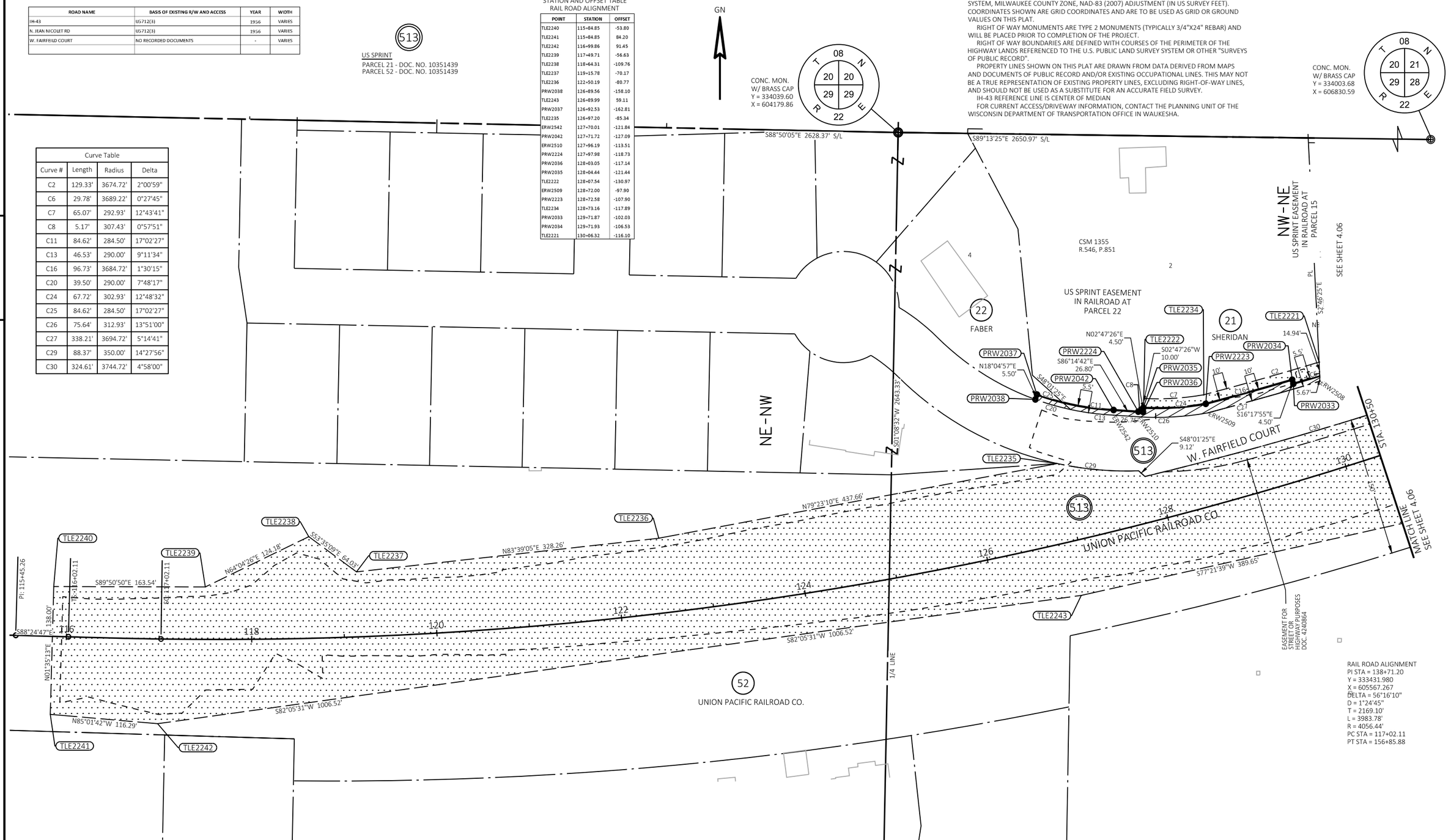

Curve Table			
Curve #	Length	Radius	Delta
C2	129.33'	3674.72'	2°00'59"
C6	29.78'	3689.22'	0°27'45"
C7	65.07'	292.93'	12°43'41"
C8	5.17'	307.43'	0°57'51"
C11	84.62'	284.50'	17°02'27"
C13	46.53'	290.00'	9°11'34"
C16	96.73'	3684.72'	1°30'15"
C20	39.50'	290.00'	7°48'17"
C24	67.72'	302.93'	12°48'32"
C25	84.62'	284.50'	17°02'27"
C26	75.64'	312.93'	13°51'00"
C27	338.21'	3694.72'	5°14'41"
C29	88.37'	350.00'	14°27'56"
C30	324.61'	3744.72'	4°58'00"

RAIL ROAD ALIGNMENT
PI STA = 138+71.20
Y = 333431.980
X = 605567.267
DELTA = 56°16'10"
D = 1°24'45"
T = 2169.10'
L = 3983.78'
R = 4056.44'
PC STA = 117+02.11
PT STA = 156+85.88

REVISION DATE 10/09/2020	DATE: AUGUST 17, 2020	SCALE, FEET 0 50 100	HWY: IH - 43	STATE R/W PROJECT NUMBER 1229-04-22	PLAT SHEET 4.07
	GRID FACTOR		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER 1229-04-71	PS&E SHEET ____ E

FILE NAME : RW_PLAT-1229-04-22_DETAIL.DWG
LAYOUT NAME 4.07
PLOT DATE : 10/9/2020 3:59 PM
PLOT BY : ISAIAH MERRIWEATHER
PLOT NAME : ----
PLOT SCALE : 1:100
WISDOT/CADDS SHEET 75

500

WE ENERGIES - ELECTRIC

PARCEL 23 - DOC. NO. 3064793
PARCEL 24 - DOC. NO. 3064793
PARCEL 24 - DOC. NO. 3934413
PARCEL 25 - DOC. NO. 3934414
PARCEL 26 - DOC. NO. 3929100
PARCEL 27 - DOC. NO. 3934415

504

AT&T WISCONSIN

PARCEL 23 - DOC. NO. 3064793
PARCEL 24 - DOC. NO. 3064793
PARCEL 24 - DOC. NO. 3934413
PARCEL 25 - DOC. NO. 3934414
PARCEL 26 - DOC. NO. 3929100
PARCEL 27 - DOC. NO. 3934415

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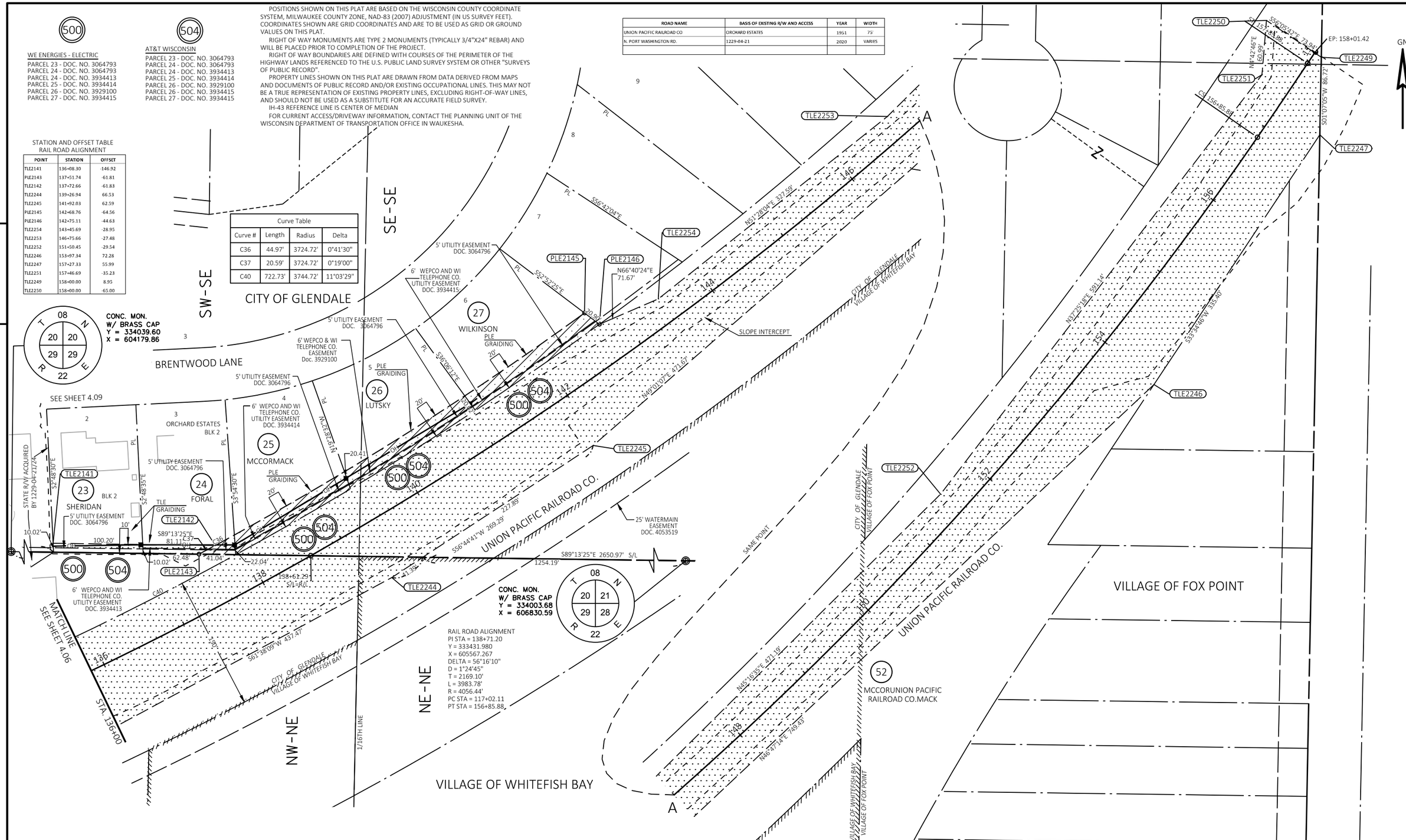
ROAD NAME	BASIS OF EXISTING R/W AND ACCESS	YEAR	WIDTH
UNION PACIFIC RAILROAD CO	ORCHARD ESTATES	1951	75'
N. PORT WASHINGTON RD.	1229-04-21	2020	VARIES

STATION AND OFFSET TABLE
RAIL ROAD ALIGNMENT

POINT	STATION	OFFSET
TLE2141	136+08.30	-146.92
PLE2143	137+51.74	-61.81
TLE2142	137+72.66	-61.83
TLE2244	139+26.94	66.53
TLE2245	141+92.03	62.59
PLE2145	142+68.76	-64.56
PLE2146	142+75.11	-44.63
TLE2254	143+45.69	-28.95
TLE2253	146+75.66	-27.48
TLE2252	151+50.45	-29.54
TLE2246	153+97.34	72.28
TLE2247	157+27.33	55.99
TLE2251	157+46.69	-35.23
TLE2249	158+00.00	8.95
TLE2250	158+00.00	-65.00

Curve Table

Curve #	Length	Radius	Delta
C36	44.97'	3724.72'	0°41'30"
C37	20.59'	3724.72'	0°19'00"
C40	722.73'	3744.72'	11°03'29"



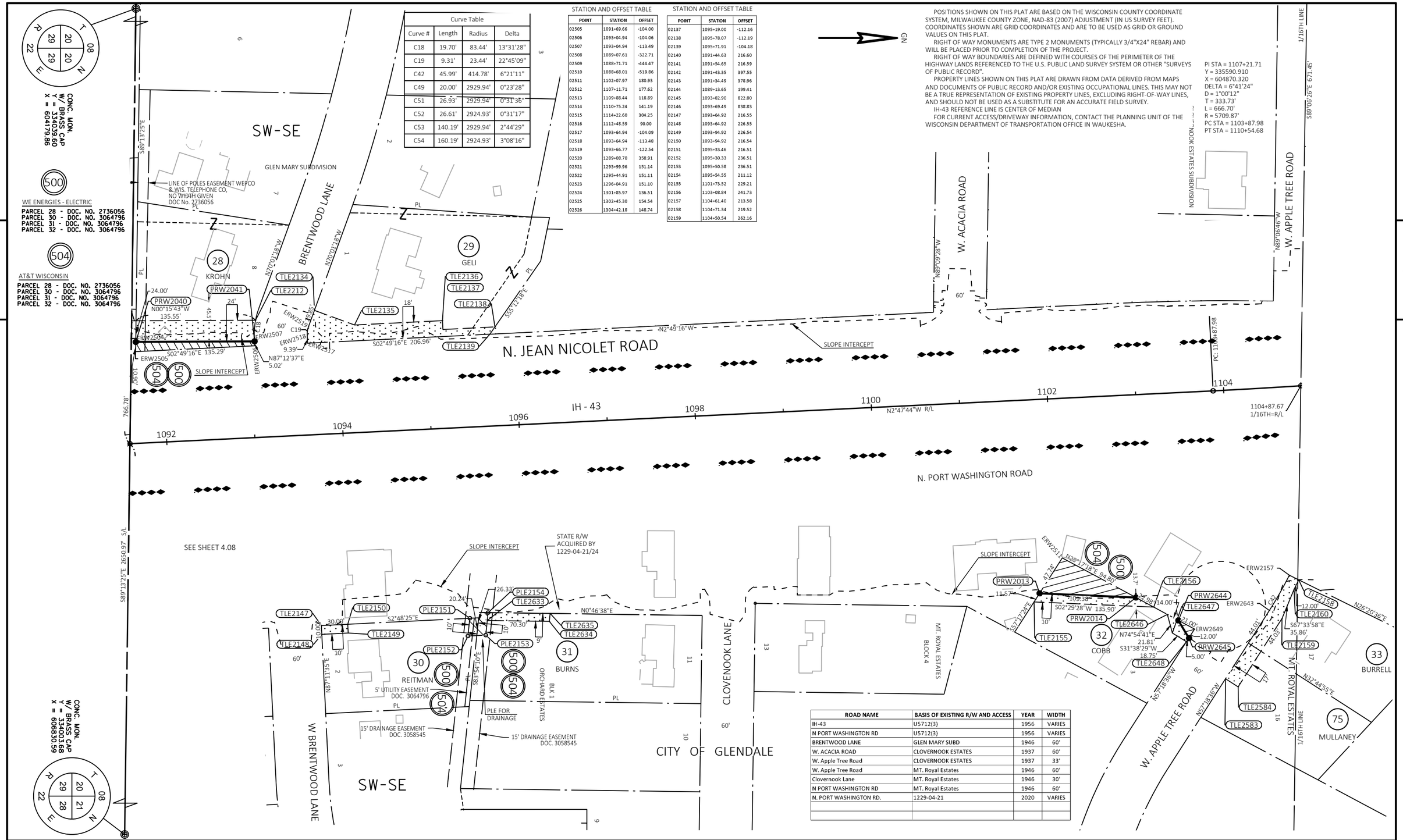
REVISION DATE			
10/09/2020			

DATE: AUGUST 17, 2020	SCALE, FEET 0 50 100	HWY: IH - 43	STATE R/W PROJECT NUMBER 1229-04-22	PLAT SHEET 4.08
GRID FACTOR		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER 1229-04-71	PS&E SHEET E

FILE NAME : RW_PLAT-1229-04-22_DETAIL.DWG
LAYOUT NAME 4.08

PLOT DATE : 10/9/2020 3:59 PM PLOT BY : ISAIAH MERRIWEATHER PLOT NAME : ---- PLOT SCALE : 1:100

WISDOT/CADDS SHEET 75



Curve Table			
Curve #	Length	Radius	Delta
C18	19.70'	83.44'	13°31'28"
C19	9.31'	23.44'	22°45'09"
C42	45.99'	414.78'	6°21'11"
C49	20.00'	2929.94'	0°23'28"
C51	26.93'	2929.94'	0°31'36"
C52	26.61'	2924.93'	0°31'17"
C53	140.19'	2929.94'	2°44'29"
C54	160.19'	2924.93'	3°08'16"

STATION AND OFFSET TABLE

POINT	STATION	OFFSET
02505	1091+69.66	-104.00
02506	1093+04.94	-104.06
02507	1093+04.94	-113.49
02508	1089+07.61	-322.71
02509	1088+71.71	-444.47
02510	1088+68.01	-519.86
02511	1102+07.97	180.93
02512	1107+11.71	177.62
02513	1109+88.44	118.89
02514	1110+75.24	141.19
02515	1114+22.60	304.25
02516	1112+48.59	90.00
02517	1093+64.94	-104.09
02518	1093+64.94	-113.48
02519	1093+66.77	-122.54
02520	1289+08.70	358.91
02521	1293+99.96	151.14
02522	1295+44.91	151.11
02523	1296+04.91	151.10
02524	1301+85.97	136.51
02525	1302+45.30	154.54
02526	1304+42.18	148.74

STATION AND OFFSET TABLE

POINT	STATION	OFFSET
02137	1095+19.00	-112.16
02138	1095+78.07	-112.19
02139	1095+71.91	-104.18
02140	1091+44.63	216.60
02141	1091+54.65	216.59
02142	1091+43.35	397.55
02143	1091+34.49	378.96
02144	1089+13.65	199.41
02145	1093+82.90	822.80
02146	1093+69.49	838.83
02147	1093+64.92	216.55
02148	1093+64.92	226.55
02149	1093+94.92	226.54
02150	1093+94.92	216.54
02151	1095+33.46	216.51
02152	1095+30.33	236.51
02153	1095+50.58	236.51
02154	1095+54.55	211.12
02155	1101+73.52	229.21
02156	1103+08.84	241.73
02157	1104+61.40	213.58
02158	1104+71.34	219.52
02159	1104+50.54	262.16

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IH-43 REFERENCE LINE IS CENTER OF MEDIAN

FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

ROAD NAME	BASIS OF EXISTING R/W AND ACCESS	YEAR	WIDTH
IH-43	U5712(3)	1956	VARIES
N PORT WASHINGTON RD	U5712(3)	1956	VARIES
BRENTWOOD LANE	GLEN MARY SUBD	1946	60'
W. ACACIA ROAD	CLOVERNOOK ESTATES	1937	60'
W. Apple Tree Road	CLOVERNOOK ESTATES	1937	33'
W. Apple Tree Road	MT. Royal Estates	1946	60'
Clovernook Lane	MT. Royal Estates	1946	30'
N PORT WASHINGTON RD	MT. Royal Estates	1946	60'
N. PORT WASHINGTON RD.	1229-04-21	2020	VARIES

REVISION DATE 10/09/2020	DATE: AUGUST 17, 2020	SCALE, FEET 0 50 100	HWY: IH - 43	STATE R/W PROJECT NUMBER 1229-04-22	PLAT SHEET 4.09
	GRID FACTOR		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER 1229-04-71	PS&E SHEET ____ E

FILE NAME : RW_PLAT-1229-04-22_DETAIL.DWG
LAYOUT NAME 4.09 RO1
PLOT DATE : 10/9/2020 3:59 PM
PLOT BY : ISAIAH MERRIWEATHER
PLOT NAME : ----
PLOT SCALE : 1:100
WISDOT/CADDS SHEET 75

ROAD NAME	BASIS OF EXISTING R/W AND ACCESS	YEAR	WIDTH
IH-43	F 077-1(1)	1953	VARIES
N Port Washington Road	F 077-1(1)	1953	VARIES
N Jean Nicolet Roas	F 077-1(1)	1953	VARIES
W. Dalphine Road	Mt. Royal Estates	1946	45'
W. Apple Tre Road	F 077-1(1)	1953	60'
N. PORT WASHINGTON RD.	1229-04-21	2020	VARIES

Curve Table			
Curve #	Length	Radius	Delta
C48	22.31'	5591.62'	0°13'43"
C50	22.31'	5599.62'	0°13'42"

PI STA = 1107+21.71
Y = 335590.910
X = 604870.320
DELTA = 6°41'24"
D = 1°00'12"
T = 333.73'
L = 666.70'
R = 5709.87'
PC STA = 1103+87.98
PT STA = 1110+54.68

STATION AND OFFSET TABLE

POINT	STATION	OFFSET
TLE2161	1107+11.56	227.14
PRW2015	1107+11.60	215.53
ERW2512	1107+11.71	177.62
TLE2162	1107+40.15	209.84
PRW2016	1107+46.02	194.77
PRW2017	1108+33.60	194.47
TLE2163	1108+46.34	209.54
TLE2164	1109+13.00	220.17
TLE2165	1109+14.98	207.33
TLE2166	1109+69.79	230.99
PRW2018	1109+73.76	206.77
ERW2513	1109+88.44	118.89
ERW2514	1110+75.24	141.19
TLE2167	1110+79.04	272.13
PRW2019	1111+93.78	227.85
ERW2516	1112+48.59	90.00
PRW2021	1112+99.71	114.00
TLE2204	1113+22.95	113.86
TLE2168	1114+16.20	338.82
PRW2020	1114+20.54	315.38
ERW2515	1114+22.60	304.25
PRW2023	1114+64.62	90.00
TLE2169	1114+64.62	100.00
PRW2022	1114+64.62	113.00
TLE2206	1114+97.84	207.01
TLE2205	1115+02.09	197.95
TLE2170	1116+83.78	100.00
TLE2171	1116+85.30	92.00

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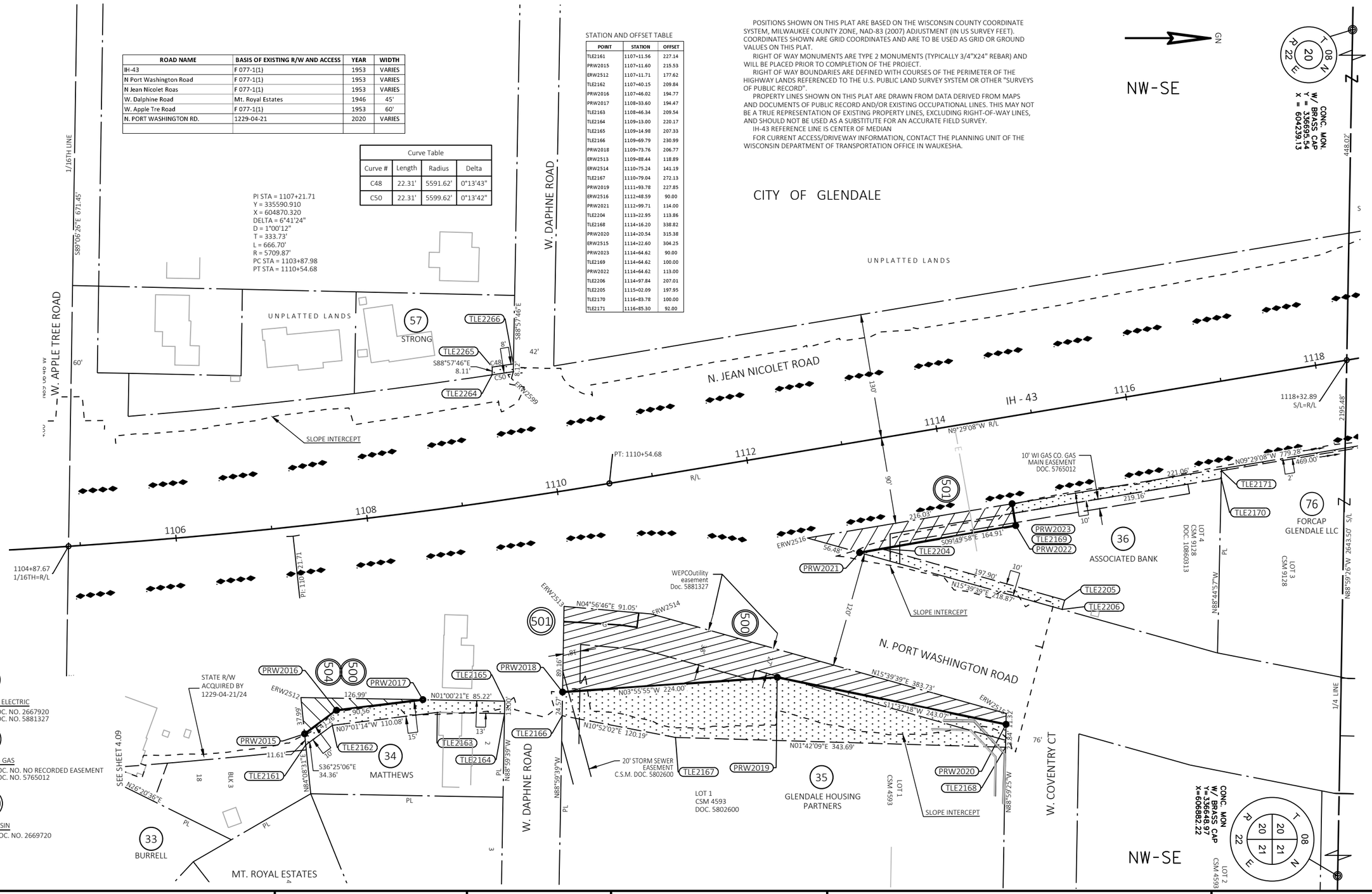

REVISION DATE 10/09/2020	DATE: AUGUST 17, 2020	SCALE, FEET 0 50 100	HWY: IH - 43	STATE R/W PROJECT NUMBER 1229-04-22	PLAT SHEET 4.10
	GRID FACTOR		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER 1229-04-71	PS&E SHEET ____ E

FILE NAME : RW_PLAT-1229-04-22_DETAIL.DWG
LAYOUT NAME 4.10
PLOT DATE : 10/9/2020 3:59 PM
PLOT BY : ISAIAH MERRIWEATHER
PLOT NAME : ----
PLOT SCALE : 1:100
WISDOT/CADDS SHEET 75

ROAD NAME	BASIS OF EXISTING R/W AND ACCESS	YEAR	WIDTH
IH-43	1228-19-20	2009	VARIES
IH-43	T 01-2(14)	1963	VARIES
N. PORT WASHINGTON RD.	WIDTH BY SS 82.31(2)	-	33'
N. PORT WASHINGTON RD.	NO RECORDED DOCUMENTS	1946	90'

CONC. MON.
W/ VILLAGE OF
RIVER HILLS
BRASS CAP
Y = 352629.39
X = 601911.83

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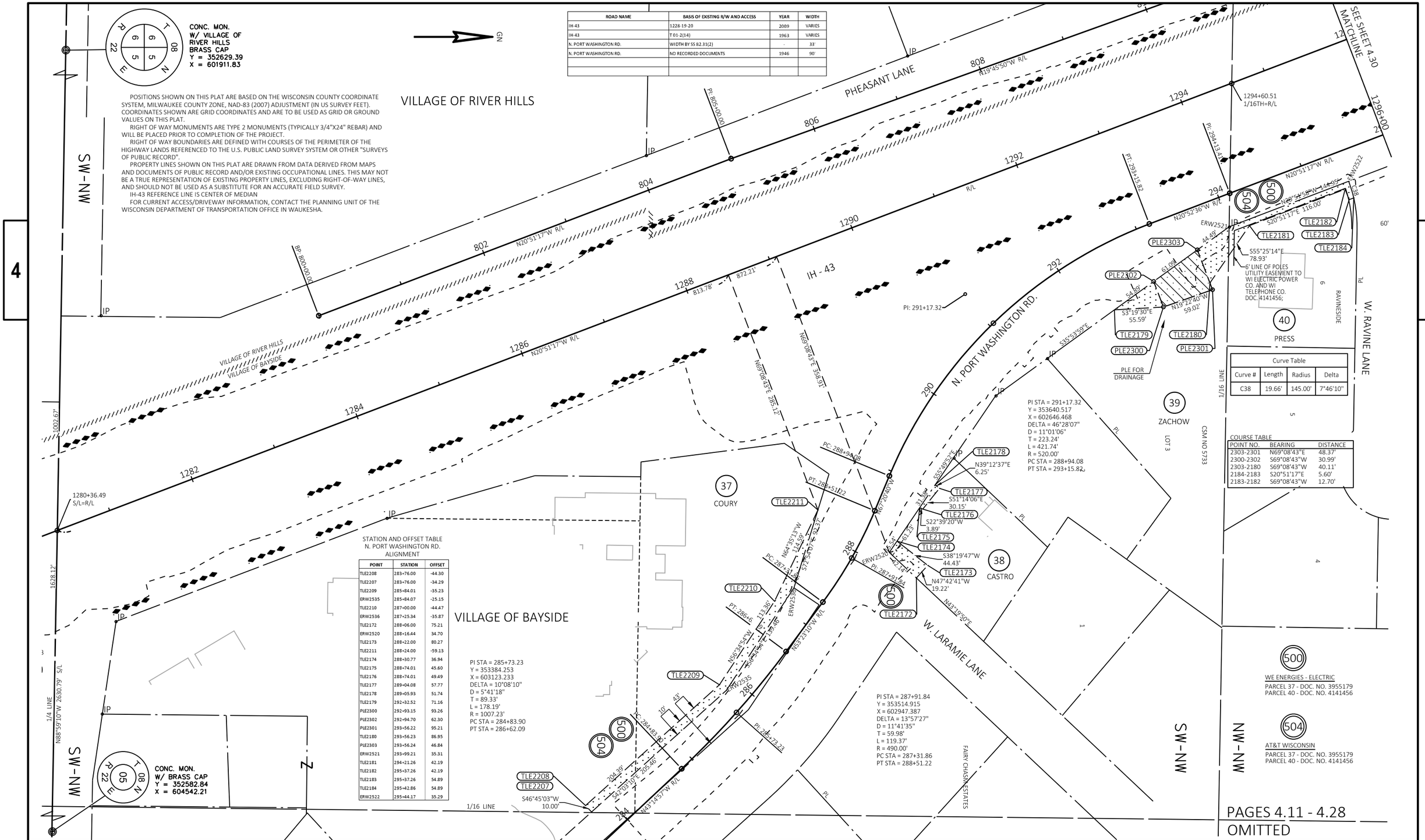

STATION AND OFFSET TABLE
N. PORT WASHINGTON RD.
ALIGNMENT

POINT	STATION	OFFSET
TLE2208	283+76.00	-44.30
TLE2207	283+76.00	-34.29
TLE2209	285+84.01	-35.23
ERW2535	285+84.07	-25.15
TLE2210	287+00.00	-44.47
ERW2536	287+25.34	-35.87
TLE2172	288+06.00	75.21
ERW2520	288+16.44	34.70
TLE2173	288+22.00	80.27
TLE2211	288+24.00	-59.13
TLE2174	288+30.77	36.94
TLE2175	288+74.01	45.60
TLE2176	288+74.01	49.49
TLE2177	289+04.08	57.77
TLE2178	289+05.93	51.74
TLE2179	292+32.52	71.16
PLE2300	292+93.15	93.26
PLE2302	292+94.70	62.30
PLE2301	293+56.22	95.21
TLE2180	293+56.23	86.95
PLE2303	293+56.24	46.84
ERW2521	293+99.21	35.31
TLE2181	294+21.26	42.19
TLE2182	295+37.26	42.19
TLE2183	295+37.26	54.89
TLE2184	295+42.86	54.89
ERW2522	295+44.17	35.29

Curve Table

Curve #	Length	Radius	Delta
C38	19.66'	145.00'	7°46'10"

COURSE TABLE

POINT NO.	BEARING	DISTANCE
2303-2301	N69°08'43"E	48.37'
2300-2302	S69°08'43"W	30.99'
2303-2180	S69°08'43"W	40.11'
2184-2183	S20°51'17"E	5.60'
2183-2182	S69°08'43"W	12.70'

500
WE ENERGIES - ELECTRIC
PARCEL 37 - DOC. NO. 3955179
PARCEL 40 - DOC. NO. 4141456

504
AT&T WISCONSIN
PARCEL 37 - DOC. NO. 3955179
PARCEL 40 - DOC. NO. 4141456

PAGES 4.11 - 4.28
OMITTED

REVISION DATE 10/09/2020	DATE: AUGUST 17, 2020	SCALE, FEET 0 50 100	HWY: IH - 43	STATE R/W PROJECT NUMBER 1229-04-22	PLAT SHEET 4.29
	GRID FACTOR		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER 1229-04-71	PS&E SHEET	E

FILE NAME : RW_PLAT-1229-04-22_DETAIL.DWG
LAYOUT NAME 4.29
PLOT DATE : 10/9/2020 3:59 PM
PLOT BY : ISAIAH MERRIWEATHER
PLOT NAME : ----
PLOT SCALE : 1:100

ROAD NAME	BASIS OF EXISTING R/W AND ACCESS	YEAR	WIDTH
IH-43	T 01-2(14)	1963	VARIES
W. JONATHAN LANE	ORCHARD HIGHLANDS	1956	60'
N PORT WASHINGTON ROAD	FAIRY CHASM ESTATES	1946	90'
COUNTY LINE ROAD	T 01-2(14)	1963	60'
N. PORT WASHINGTON RD.	1229-04-21	2020	VARIES

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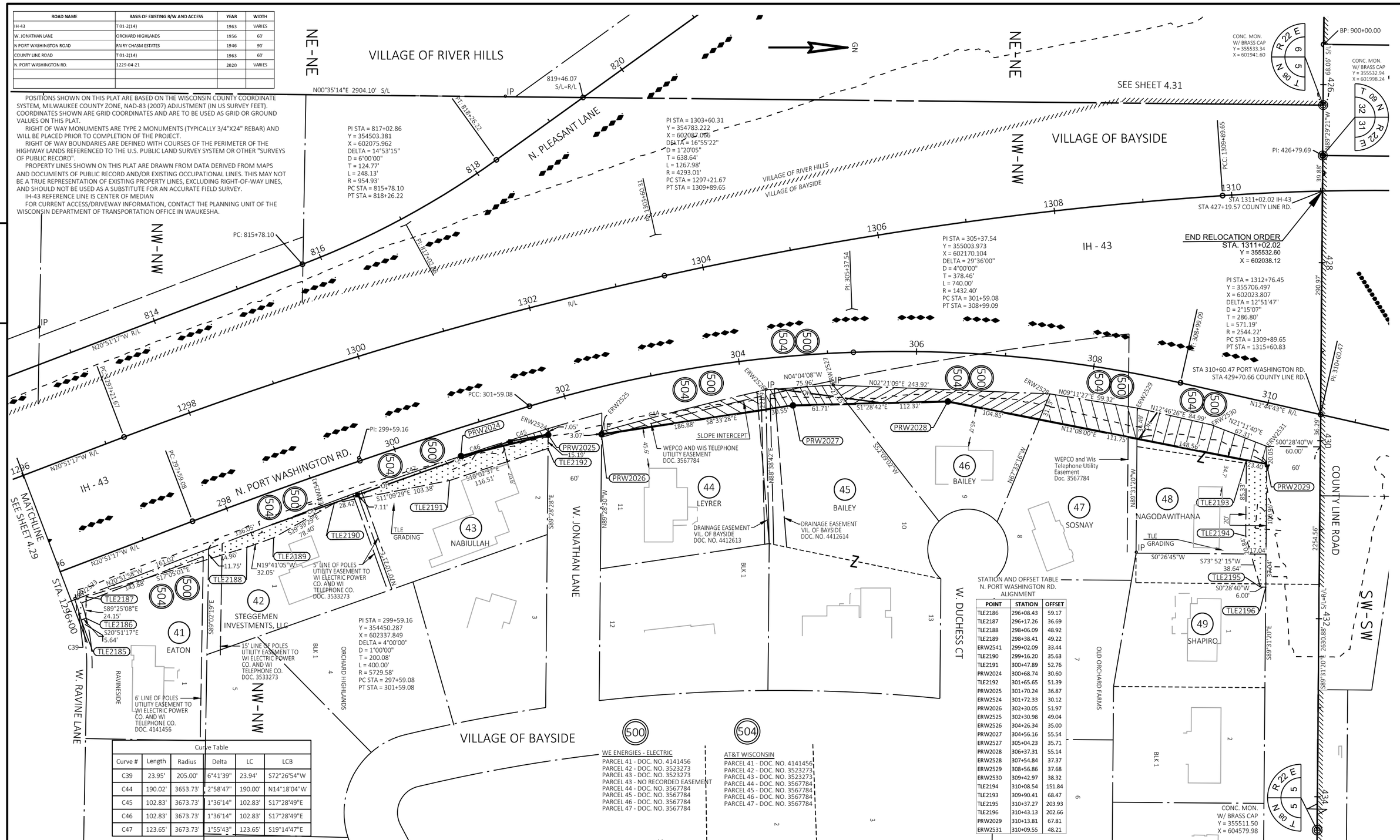

STATION AND OFFSET TABLE
N. PORT WASHINGTON RD.
ALIGNMENT

POINT	STATION	OFFSET
TLE2186	296+08.43	59.17
TLE2187	296+17.26	36.69
TLE2188	298+06.09	48.92
TLE2189	298+38.41	49.22
ERW2541	299+02.09	33.44
TLE2190	299+16.20	35.63
TLE2191	300+47.89	52.76
PRW2024	300+68.74	30.60
TLE2192	301+65.65	51.39
PRW2025	301+70.24	36.87
ERW2524	301+72.33	30.12
PRW2026	302+30.05	51.97
ERW2525	302+30.98	49.04
ERW2526	304+26.34	35.00
PRW2027	304+56.16	55.54
ERW2527	305+04.23	35.71
PRW2028	306+37.31	55.14
ERW2528	307+54.84	37.37
ERW2529	308+56.86	37.68
ERW2530	309+42.97	38.32
TLE2194	310+08.54	151.84
TLE2193	309+90.41	68.47
TLE2195	310+37.27	203.93
TLE2196	310+43.13	202.66
PRW2029	310+13.81	67.81
ERW2531	310+09.55	48.21

Curve Table

Curve #	Length	Radius	Delta	LC	LCB
C39	23.95'	205.00'	6°41'39"	23.94'	S72°26'54"W
C44	190.02'	3653.73'	2°58'47"	190.00'	N14°18'04"W
C45	102.83'	3673.73'	1°36'14"	102.83'	S17°28'49"E
C46	102.83'	3673.73'	1°36'14"	102.83'	S17°28'49"E
C47	123.65'	3673.73'	1°55'43"	123.65'	S19°14'47"E

REVISION DATE 10/09/2020	DATE: AUGUST 17, 2020	SCALE, FEET 0 50 100	HWY: IH - 43	STATE R/W PROJECT NUMBER 1229-04-22	PLAT SHEET 4.30
	GRID FACTOR		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER 1229-04-71	PS&E SHEET ____ E

FILE NAME : RW_PLAT-1229-04-22_DETAIL.DWG
LAYOUT NAME 4.30
PLOT DATE : 10/9/2020 4:00 PM
PLOT BY : ISAIAH MERRIWEATHER
PLOT NAME : ----
PLOT SCALE : 1:100
WISDOT/CADDS SHEET 75

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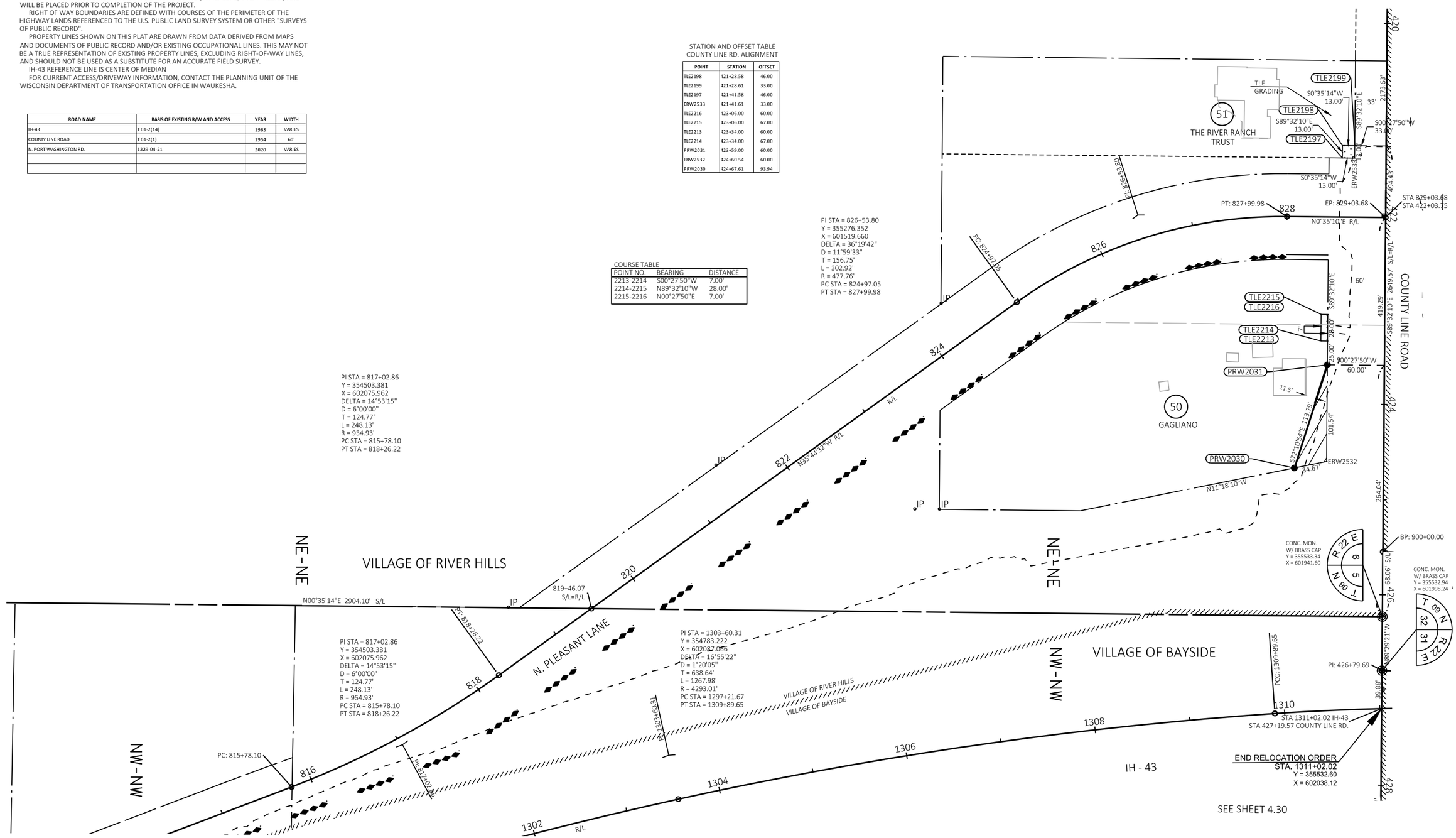
ROAD NAME	BASIS OF EXISTING R/W AND ACCESS	YEAR	WIDTH
IH-43	T 01-2(14)	1963	VARIES
COUNTY LINE ROAD	T 01-2(1)	1954	60'
N. PORT WASHINGTON RD.	1229-04-21	2020	VARIES

STATION AND OFFSET TABLE
COUNTY LINE RD. ALIGNMENT

POINT	STATION	OFFSET
TLE2198	421+28.58	46.00
TLE2199	421+28.61	33.00
TLE2197	421+41.58	46.00
ERW2533	421+41.61	33.00
TLE2216	423+06.00	60.00
TLE2215	423+06.00	67.00
TLE2213	423+34.00	60.00
TLE2214	423+34.00	67.00
PRW2031	423+59.00	60.00
ERW2532	424+60.54	60.00
PRW2030	424+67.61	93.94

COURSE TABLE

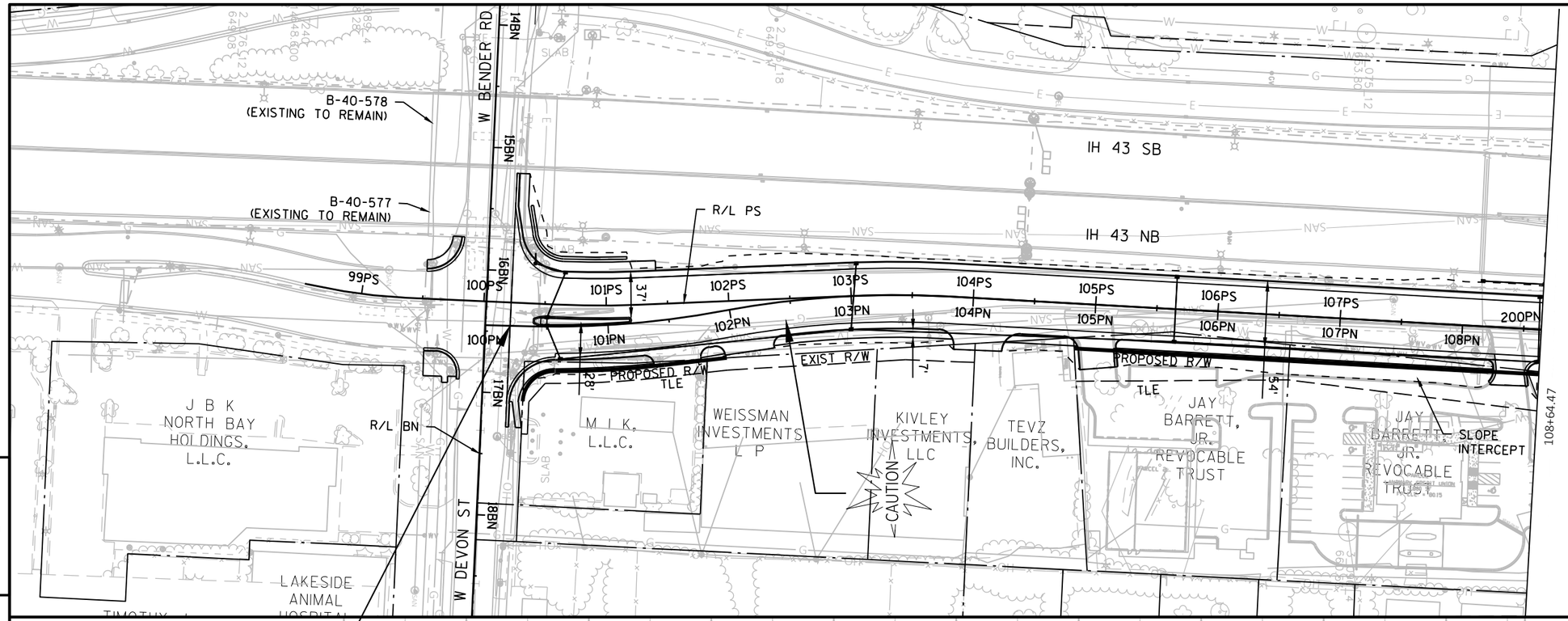
POINT NO.	BEARING	DISTANCE
2213-2214	S00°27'50"W	7.00'
2214-2215	N89°32'10"W	28.00'
2215-2216	N00°27'50"E	7.00'

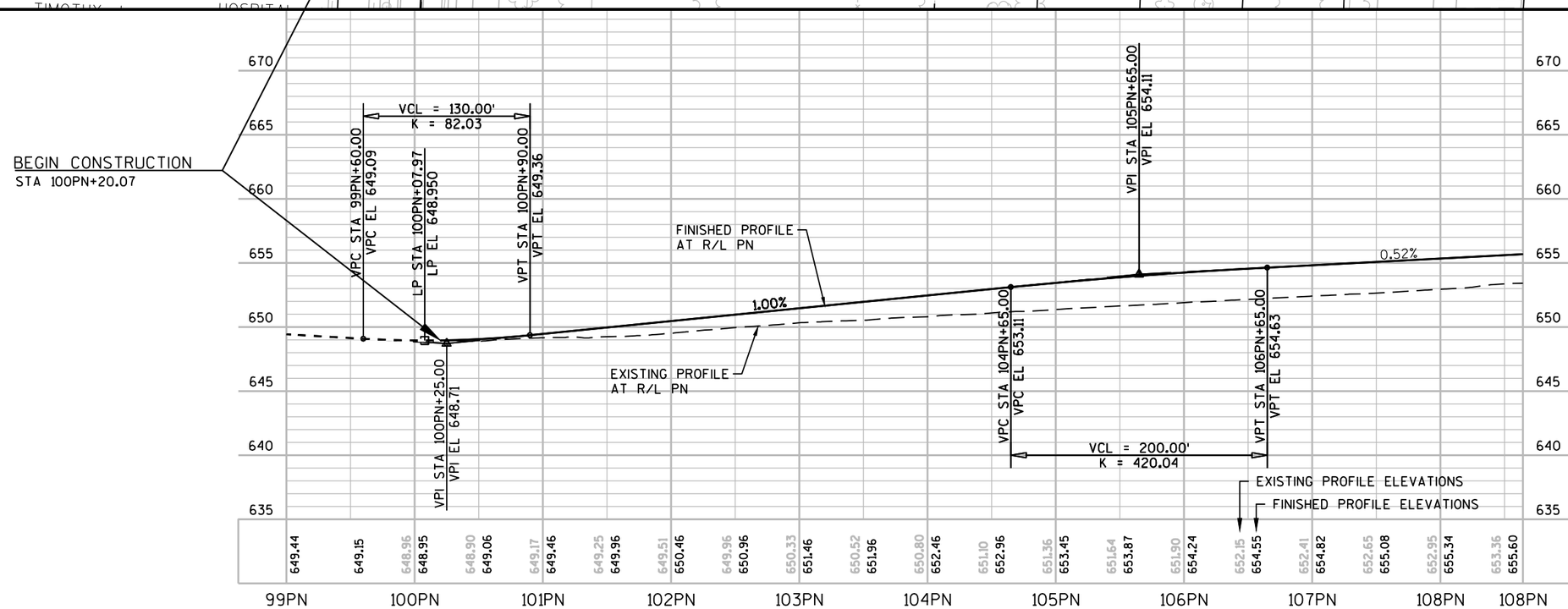


REVISION DATE			
10/09/2020			

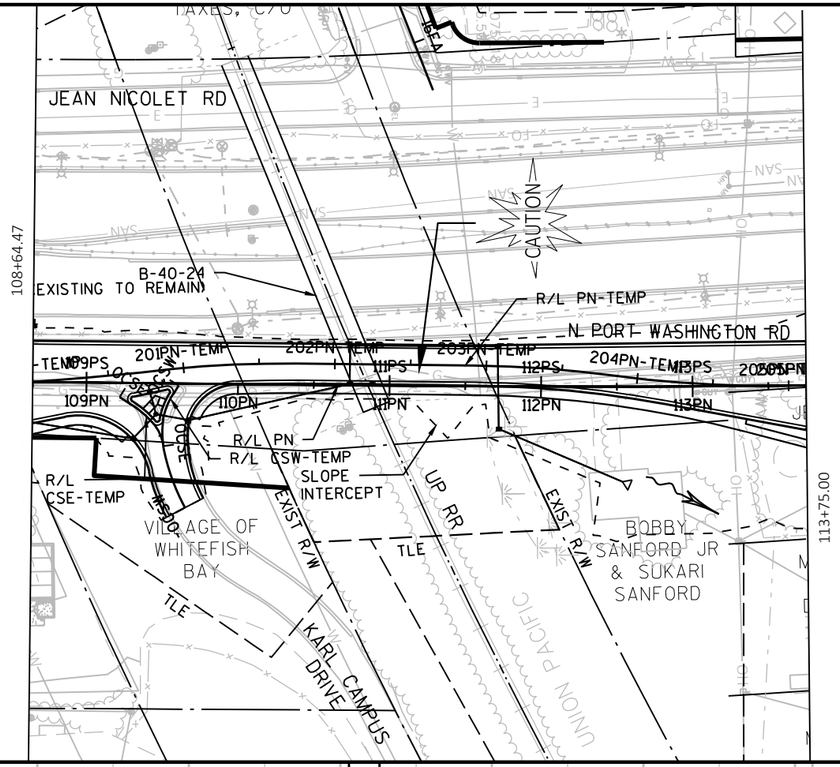
DATE: AUGUST 17, 2020	SCALE, FEET 0 50 100	HWY: IH - 43	STATE R/W PROJECT NUMBER 1229-04-22	PLAT SHEET 4.31
GRID FACTOR		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER 1229-04-71	PS&E SHEET ____ E

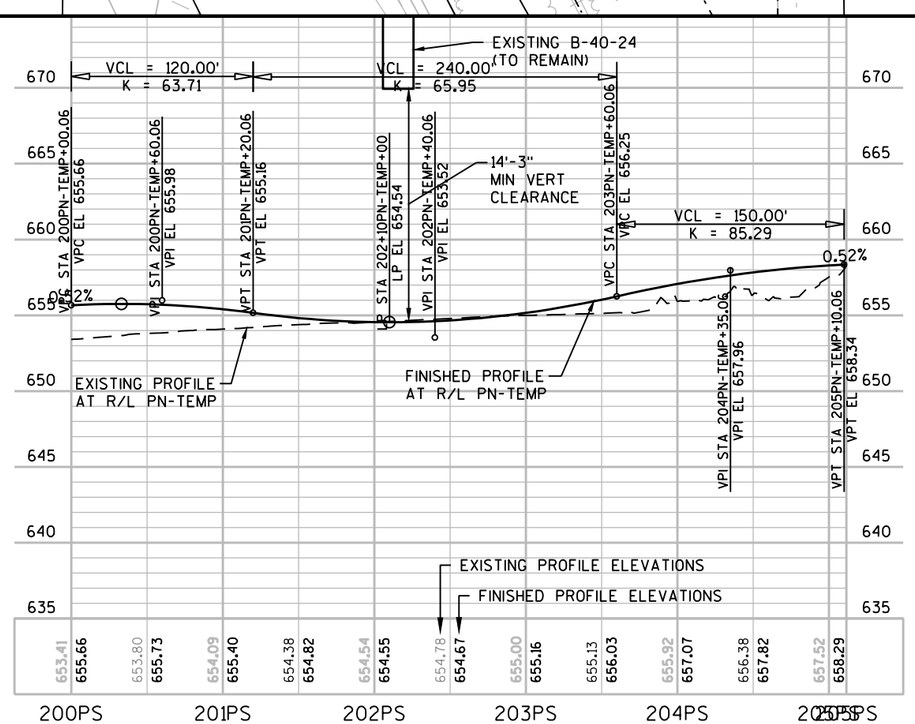
FILE NAME : RW_PLAT-1229-04-22_DETAIL.DWG
LAYOUT NAME 4.31
PLOT DATE : 10/9/2020 4:00 PM
PLOT BY : ISAIAH MERRIWEATHER
PLOT NAME : ----
PLOT SCALE : 1:100
WISDOT/CADDS SHEET 75





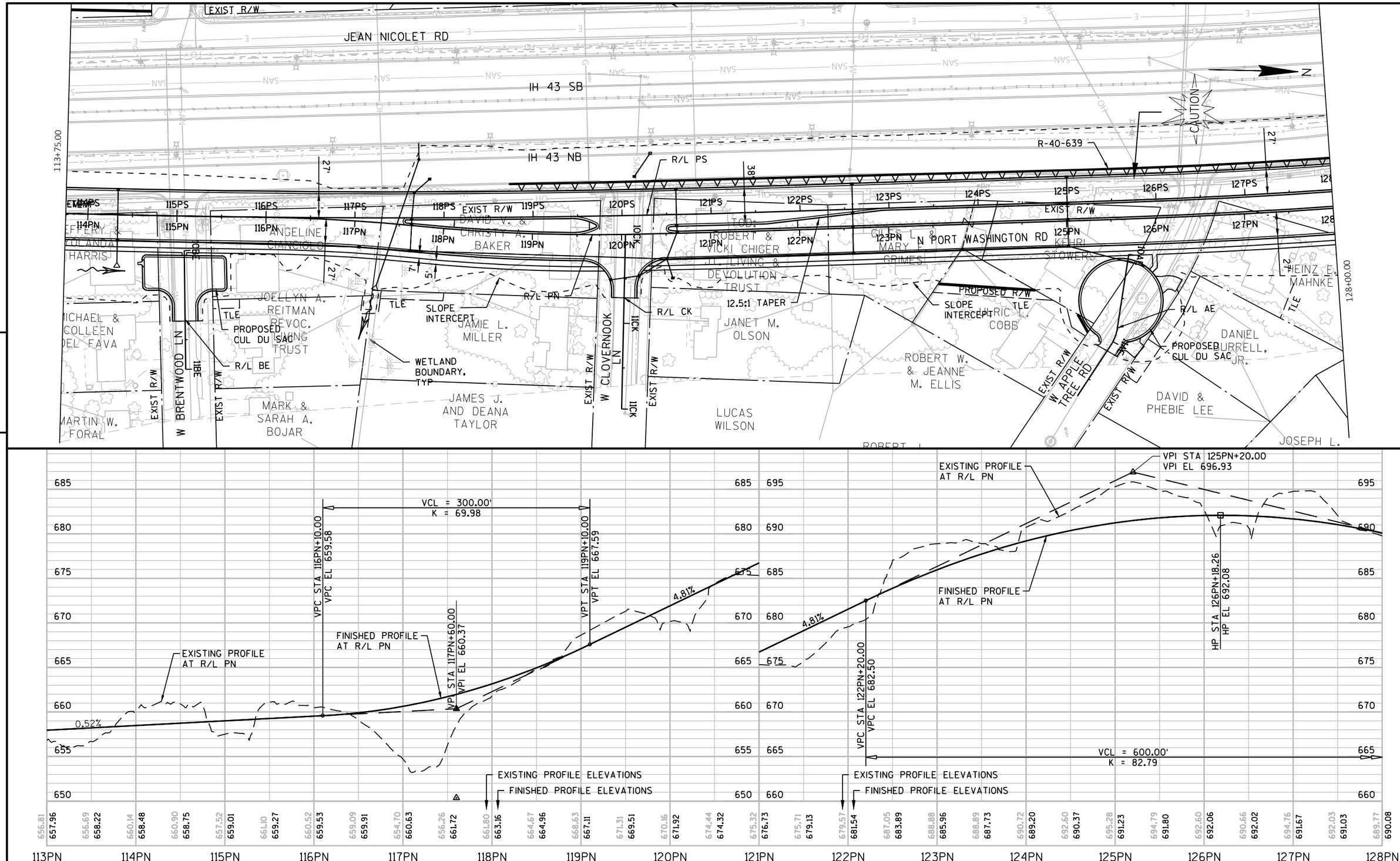
PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	PLAN AND PROFILE: PORT WASHINGTON RD - NB	SHEET	E





PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	PLAN AND PROFILE: PORT WASHINGTON ROAD - TEMPORARY PAVEMENT	SHEET	E

FILE NAME : C:\CADDLIB\PW\DBAUMANN\PWGREAT_LAKES\D0256192\050302_PP PN TEMP.DWG
LAYOUT NAME - 050127
PLOT DATE : 12/1/2020 11:58 AM PLOT BY : DAN BAUMANN PLOT NAME : PLOT SCALE : 1 IN:100 FT



PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	PLAN AND PROFILE: PORT WASHINGTON RD - NB	SHEET	E

FILE NAME : C:\CADDLIB\PW\DBAUMANN\PWGREAT_LAKES\D0256192\050302_PP PN TEMP.DWG
LAYOUT NAME - 050128
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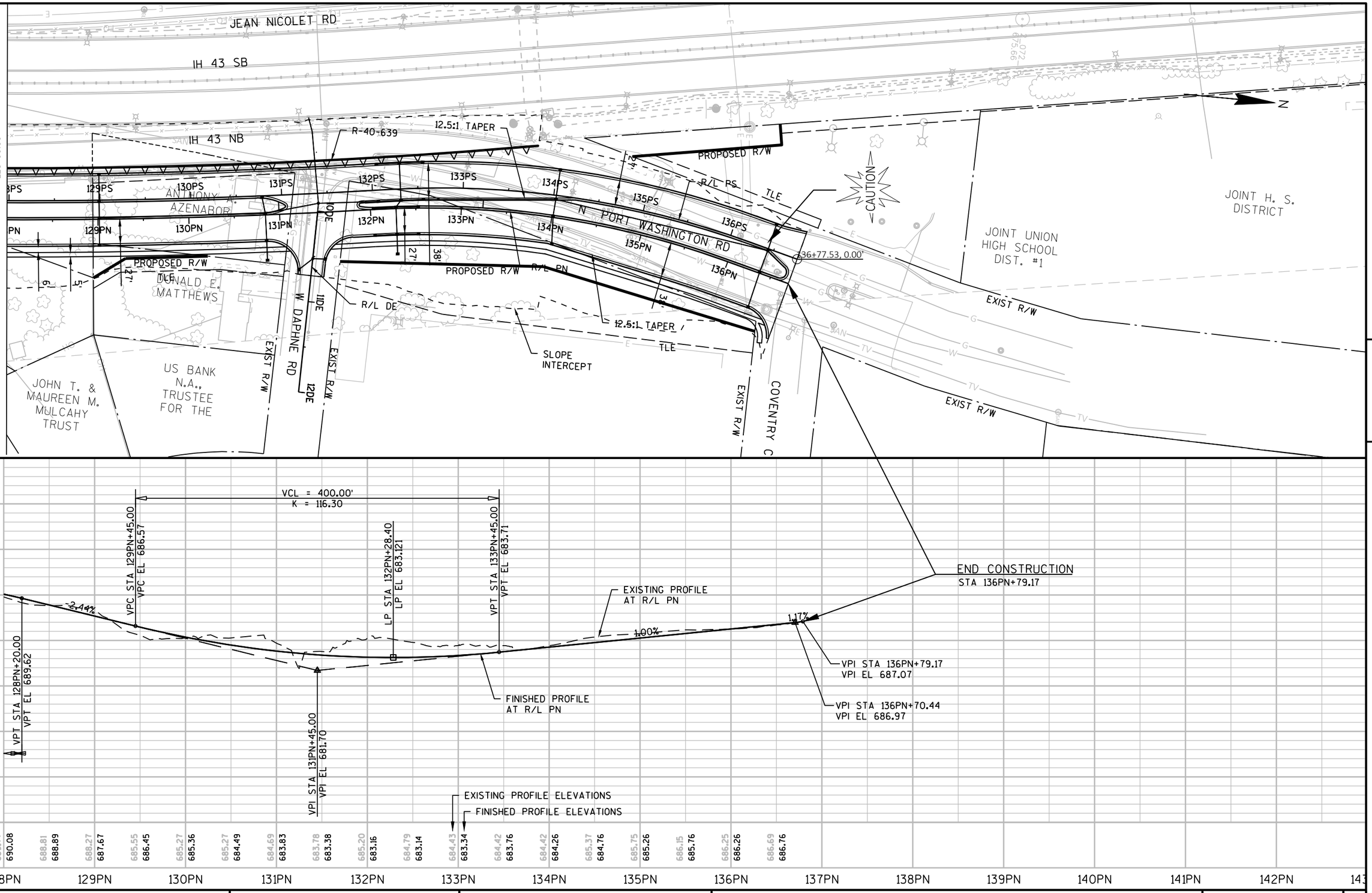

PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	PLAN AND PROFILE: PORT WASHINGTON RD - NB	SHEET	E

FILE NAME : C:\CADDLIB\PW\DBAUMANN\PWGREAT_LAKES\D0256192\050302_PP PN TEMP.DWG
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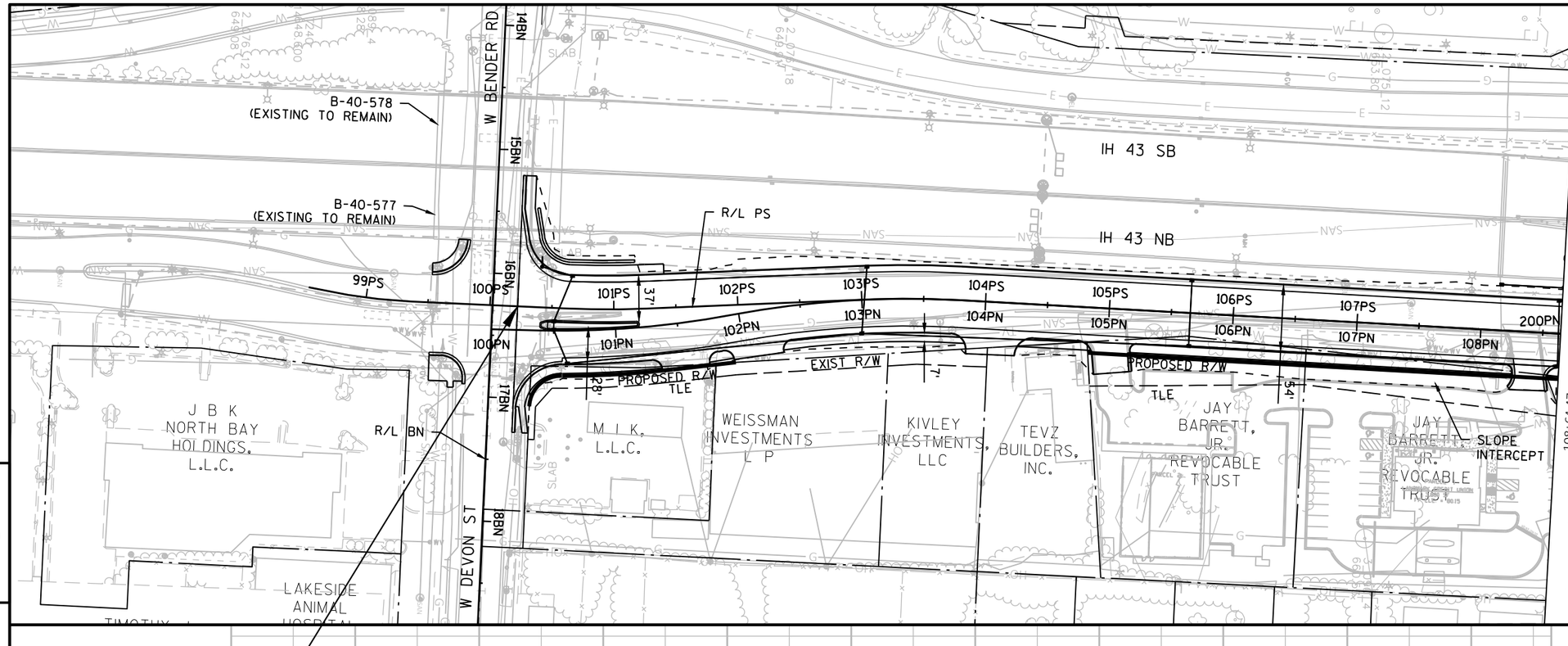
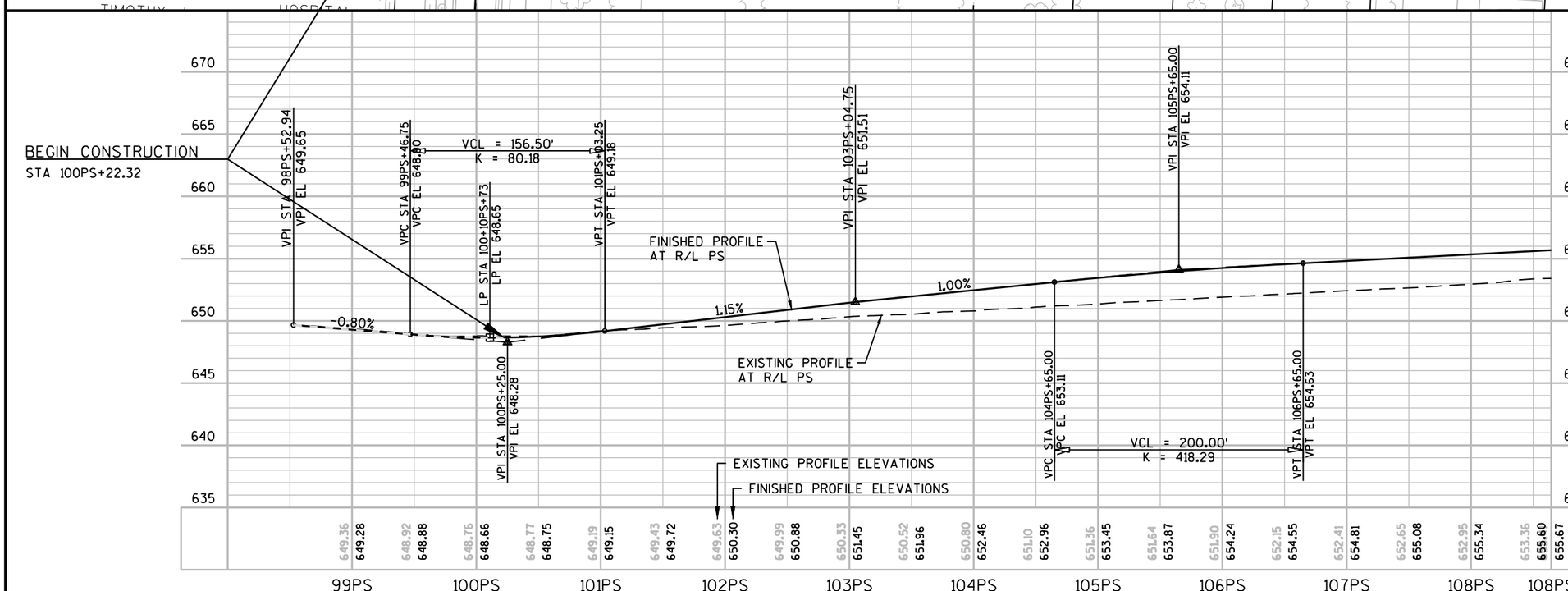
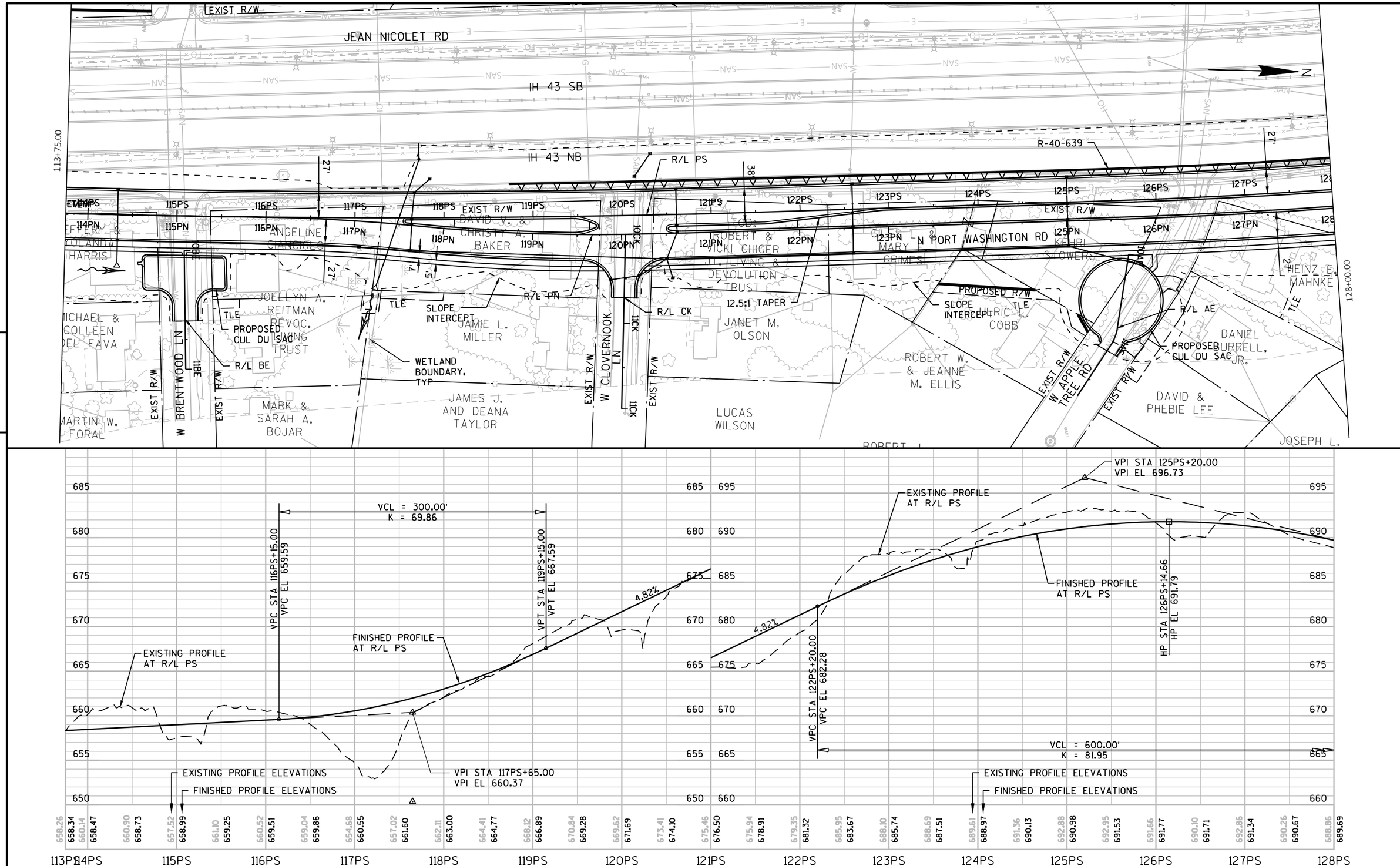
PLOT DATE : 12/1/2020 12:02 PM
PLOT BY : DAN BAUMANN
PLOT NAME :
PLOT SCALE : 1 IN:100 FT



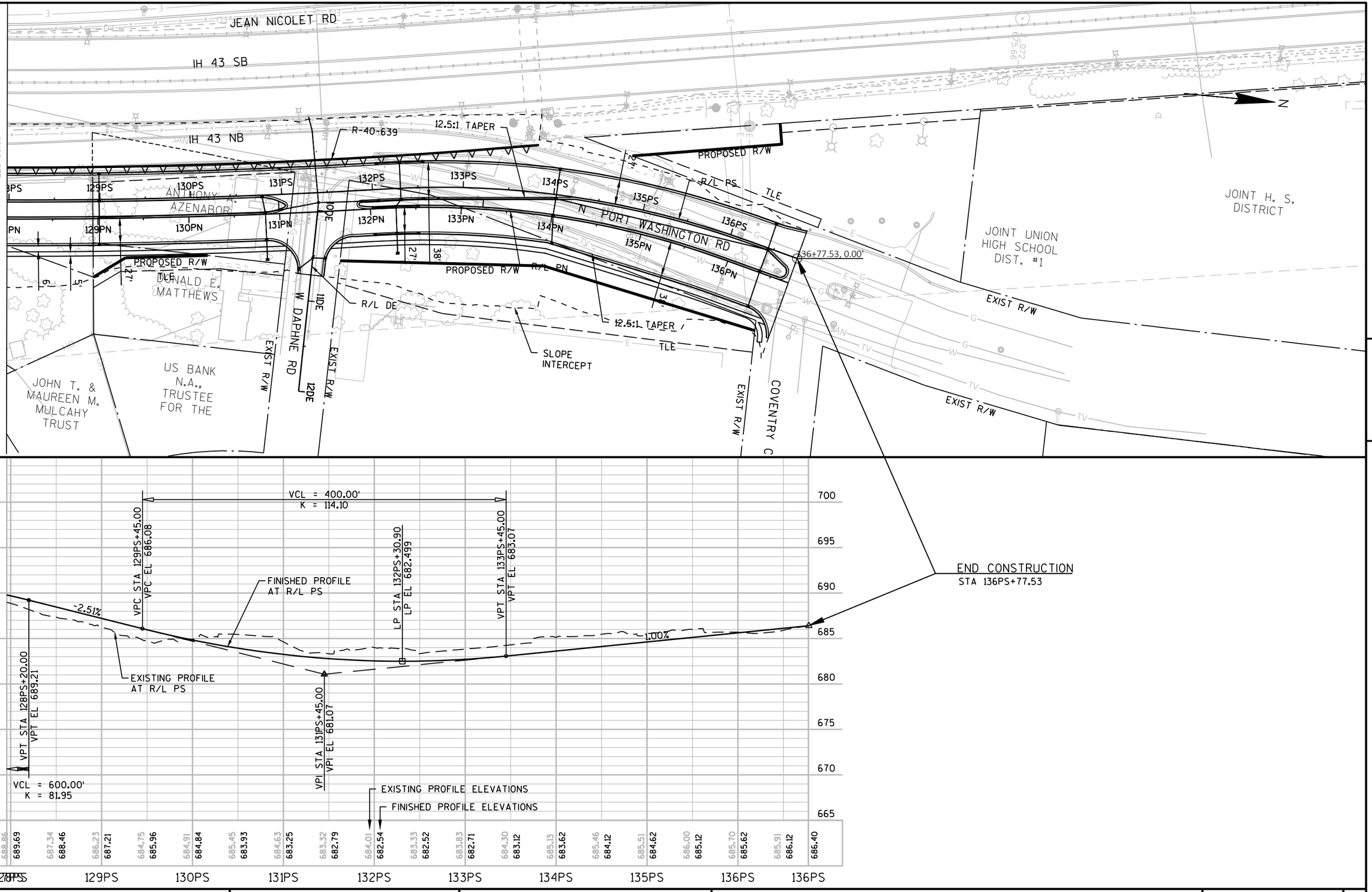


PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	PLAN AND PROFILE: PORT WASHINGTON RD - SB	SHEET	E

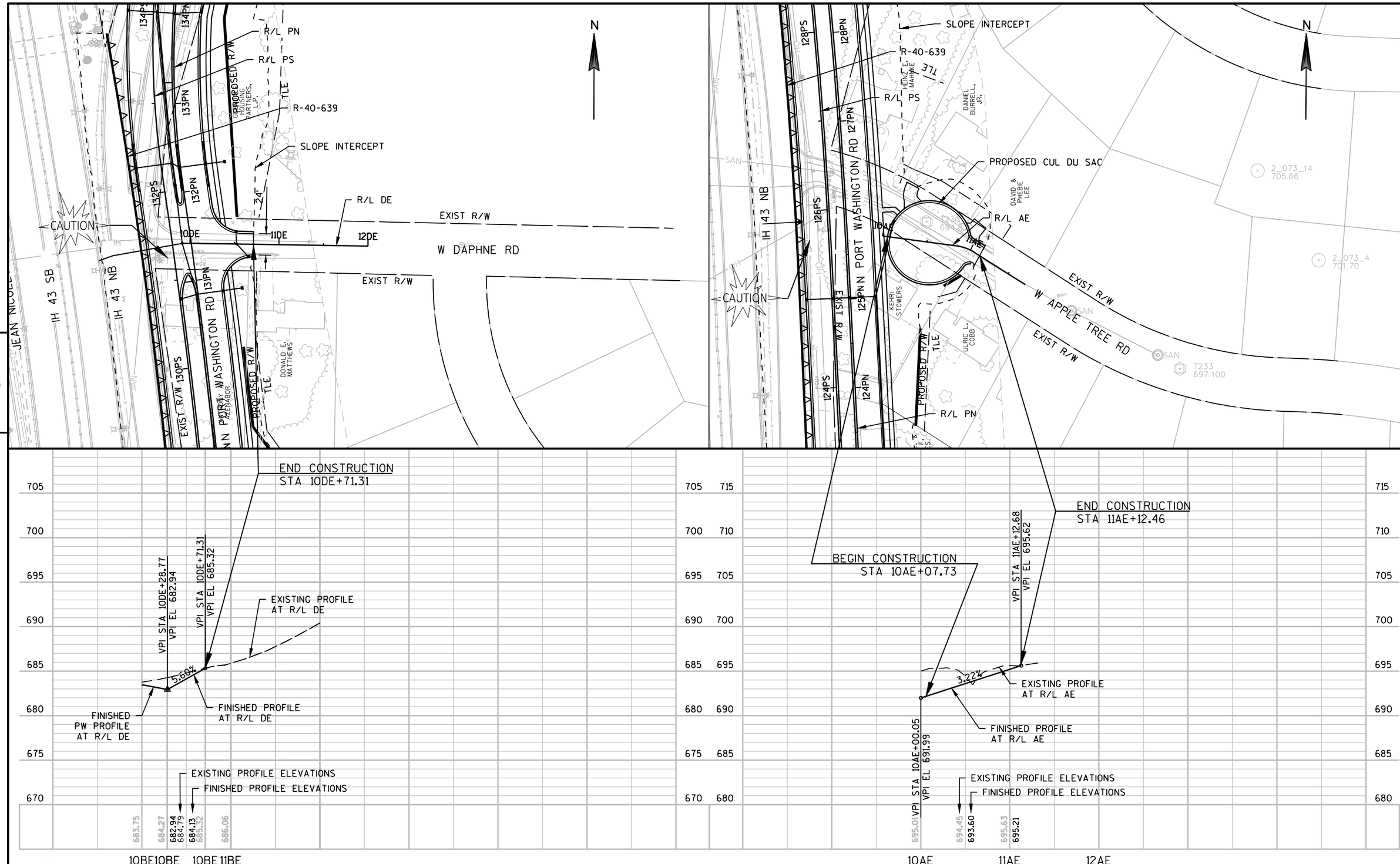


PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	PLAN AND PROFILE: PORT WASHINGTON RD - SB	SHEET	E

FILE NAME : C:\CADDLIB\PW\DBAUMANN\PWGREAT_LAKES\D0256192\050302_PP PN TEMP.DWG
LAYOUT NAME - 050131
PLOT DATE : 12/1/2020 12:07 PM PLOT BY : DAN BAUMANN PLOT NAME : PLOT SCALE : 1 IN:100 FT



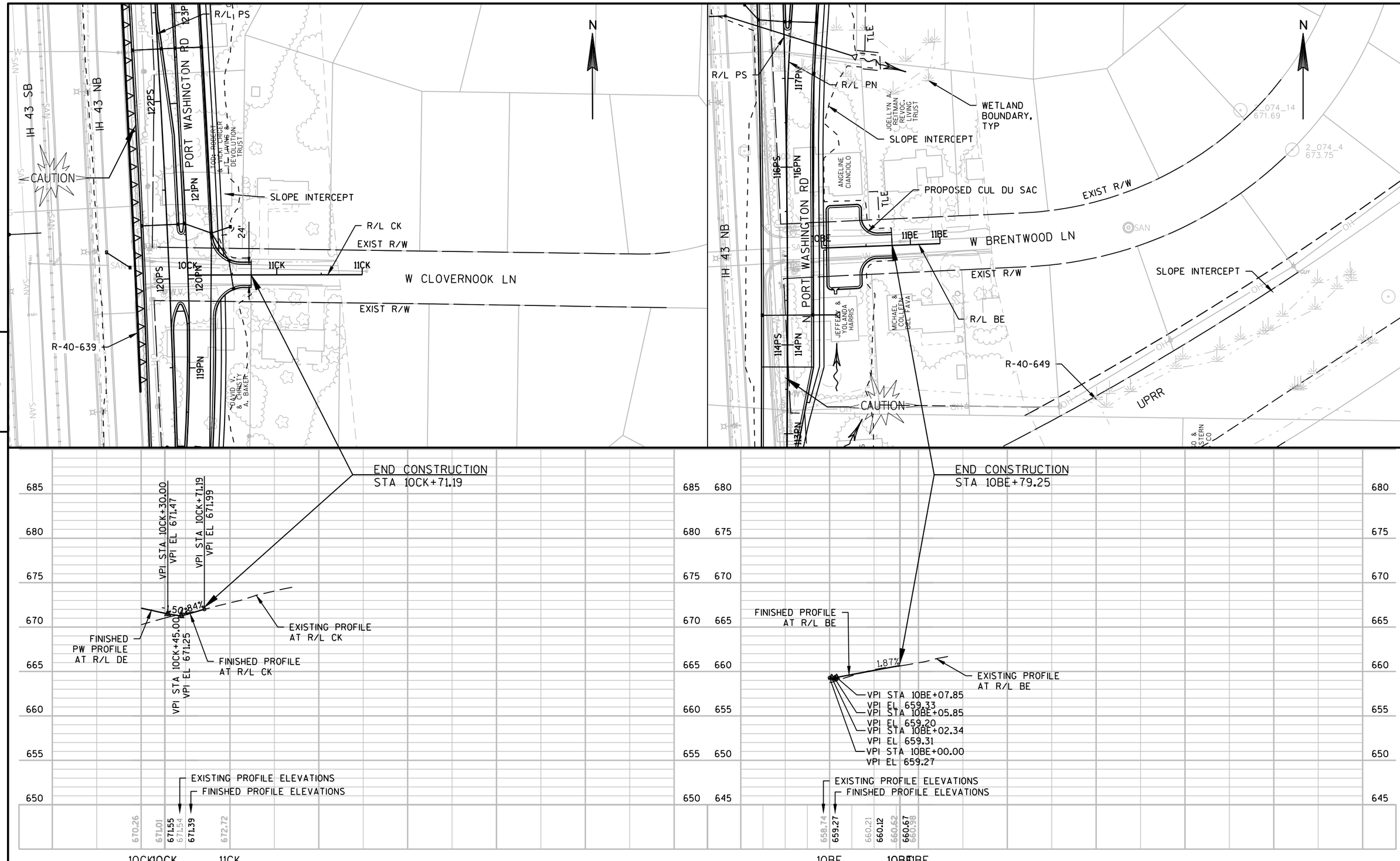
PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	PLAN AND PROFILE: PORT WASHINGTON RD - SB	SHEET	E



PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	PLAN AND PROFILE: W DAPHNE RD & APPLE TREE RD	SHEET	E

FILE NAME : C:\CADDLIB\PW\CRKASTEN\GREATLAKES\D0256192\050314_PP SIDEROADS.DWG PLOT DATE : 11/30/2020 2:51 PM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1:100_XREF

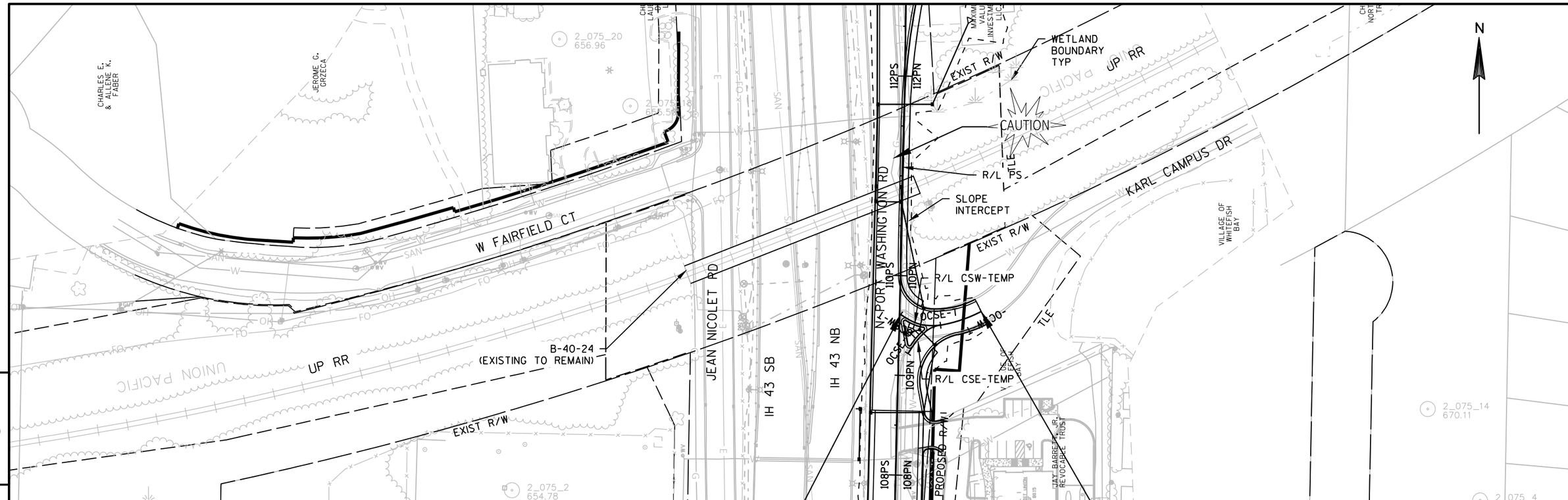
WISDOT/CADDS SHEET 44

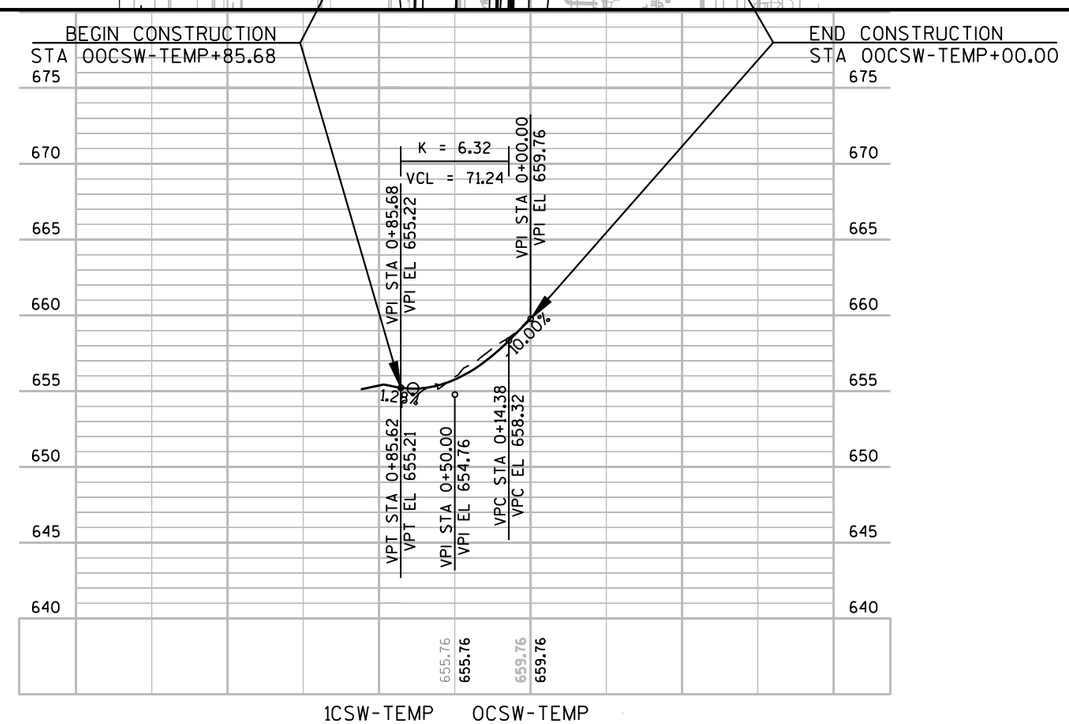


PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	PLAN AND PROFILE: W CLOVERNOOK LN & W BRENTWOOD LN	SHEET	E

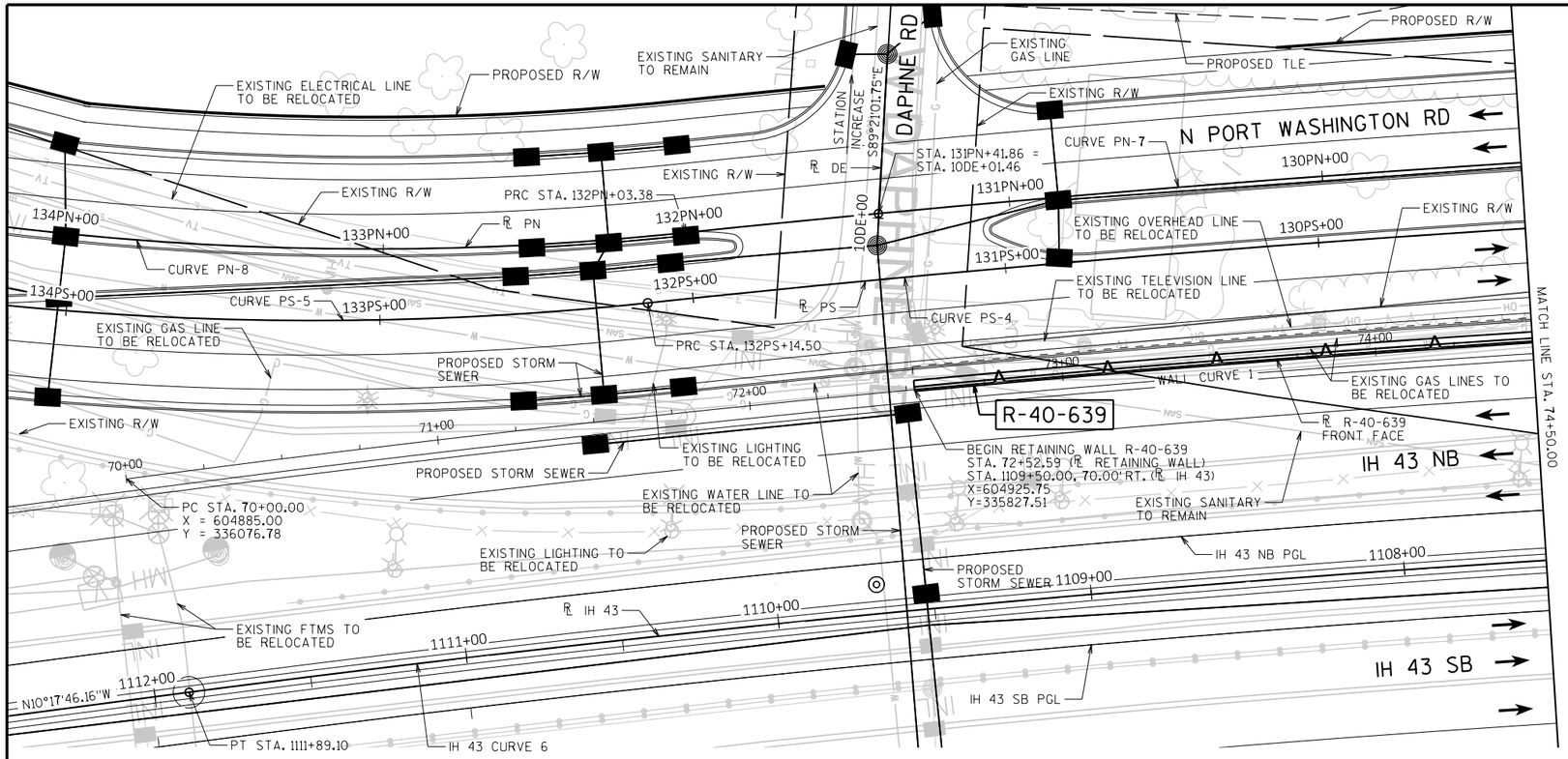
FILE NAME : C:\CADDLIB\PW\CRKASTEN\GREATLAKES\D0256192\050314_PP SIDEROADS.DWG PLOT DATE : 11/30/2020 2:45 PM PLOT BY : CECELIA KASTEN PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 44



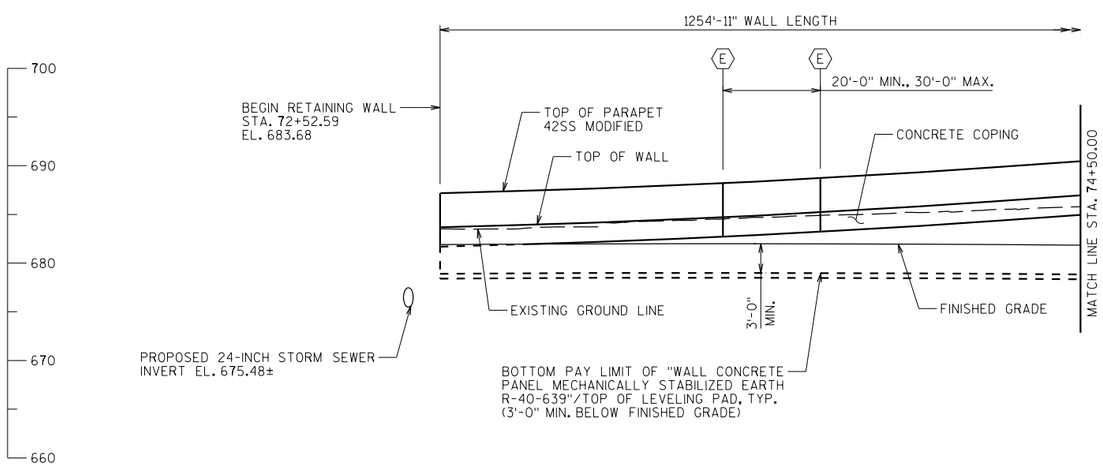


PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	PLAN AND PROFILE: KARL CAMPUS DR	SHEET	E



PLAN

MSE RETAINING WALL



ELEVATION

LOOKING WEST
(DIMENSIONS ALONG FRONT FACE OF WALL)

NOTE

R-40-639 AND PORT WASHINGTON ROAD TO BE CONSTRUCTED UNDER THIS CONTRACT. IH 43 TO BE CONSTRUCTED LATER UNDER CONTRACT 1229-04-73.

STATE PROJECT NUMBER

1229-04-71

DESIGN DATA

LIVE LOAD:

LIVE LOAD SURCHARGE (ROADWAY): 240 PSF

MATERIAL PROPERTIES:

CONCRETE MASONRY RETAINING WALL..... f'c = 4,000 psi
PRECAST CONCRETE WALL PANELS..... f'c = 4,000 psi
BAR STEEL REINFORCEMENT..... fy = 60,000 psi

DESIGN THE RETAINING WALL FOR A HORIZONTAL FINISHED GRADE BEHIND THE WALL, AND A LIVE LOAD SURCHARGE OF 240 PSF, UNLESS NOTED OTHERWISE

LEGEND

→ DIRECTION OF TRAFFIC

(E) EXPANSION JOINT

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION (1 OF 3)
2. GENERAL PLAN & ELEVATION (2 OF 3)
3. GENERAL PLAN & ELEVATION (3 OF 3)
4. TYPICAL SECTION
5. GENERAL NOTES & QUANTITIES
6. PROFILE GRADE LINES & DESIGN DATA
7. SUBSURFACE EXPLORATION
8. SUBSURFACE EXPLORATION

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
AARON BONK (608) 261-0261
CONSULTANT:
MOHAMMED ZAGLOUL (414) 751-7200

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY

kapur
7711 N. Port Washington Road
Milwaukee, Wisconsin 53217
kapurinc.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE R-40-639

RETAINING WALL BTWN. IH 43 NB & N. PORT WASH. RD

COUNTY	CITY
MILWAUKEE	GLENDALE

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
AJA	MHZ	MM	MHZ/AJA

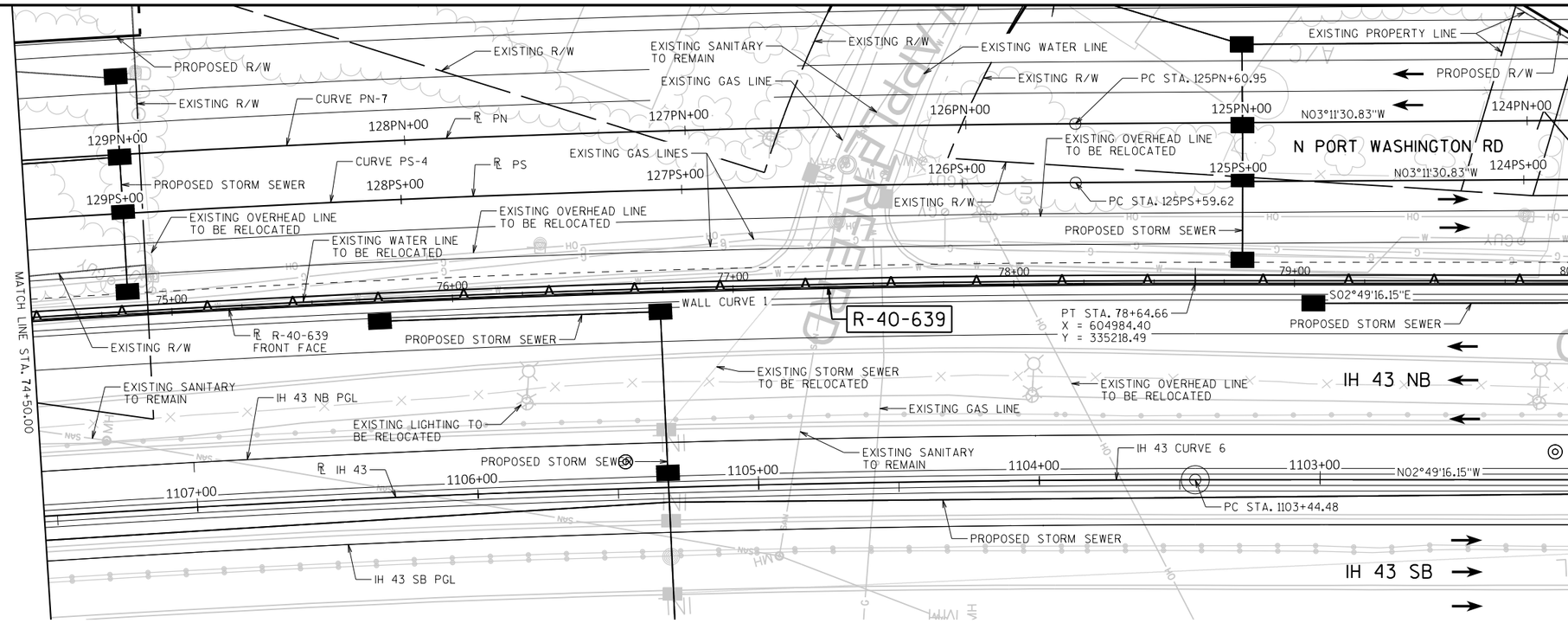
GENERAL PLAN & ELEVATION (1 OF 3)

SHEET 1 OF 8

PRELIMINARY PLANS

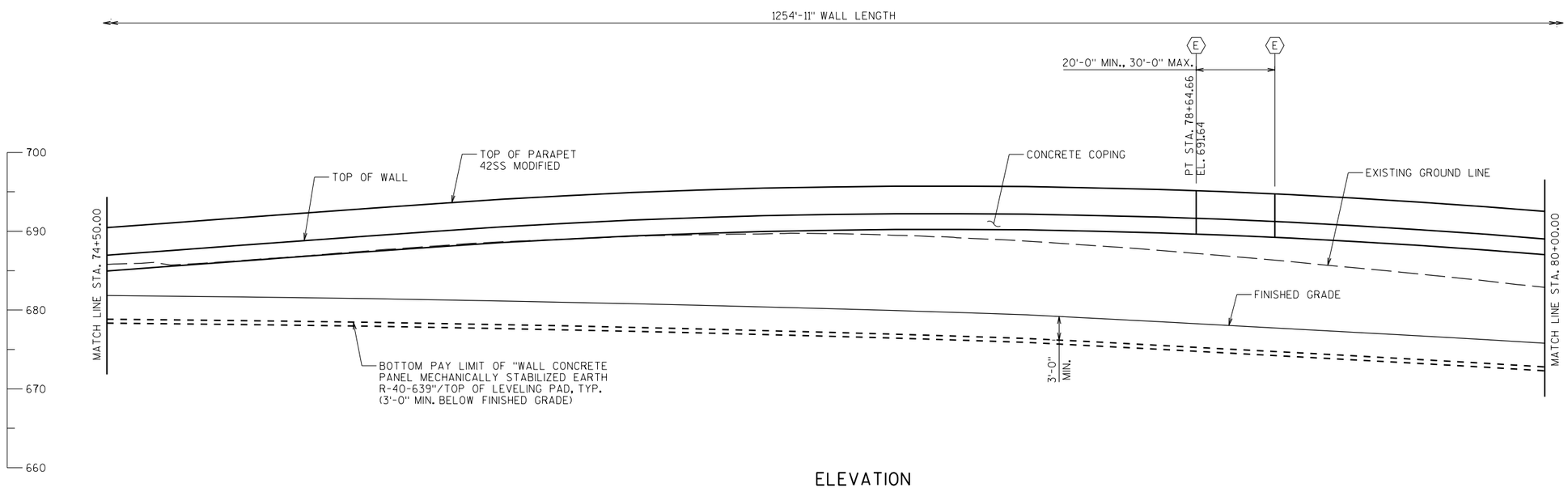
8

STATE PROJECT NUMBER
1229-04-71



PLAN

MSE RETAINING WALL



ELEVATION

LOOKING WEST
(DIMENSIONS ALONG FRONT FACE OF WALL)

NOTE

R-40-639 AND PORT WASHINGTON ROAD TO BE CONSTRUCTED UNDER THIS CONTRACT. IH 43 TO BE CONSTRUCTED LATER UNDER CONTRACT 1229-04-73.

LEGEND

→ DIRECTION OF TRAFFIC

(E) EXPANSION JOINT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-40-639

DRAWN BY MM | PLANS CK'D. MHZ

GENERAL PLAN & ELEVATION (2 OF 3)

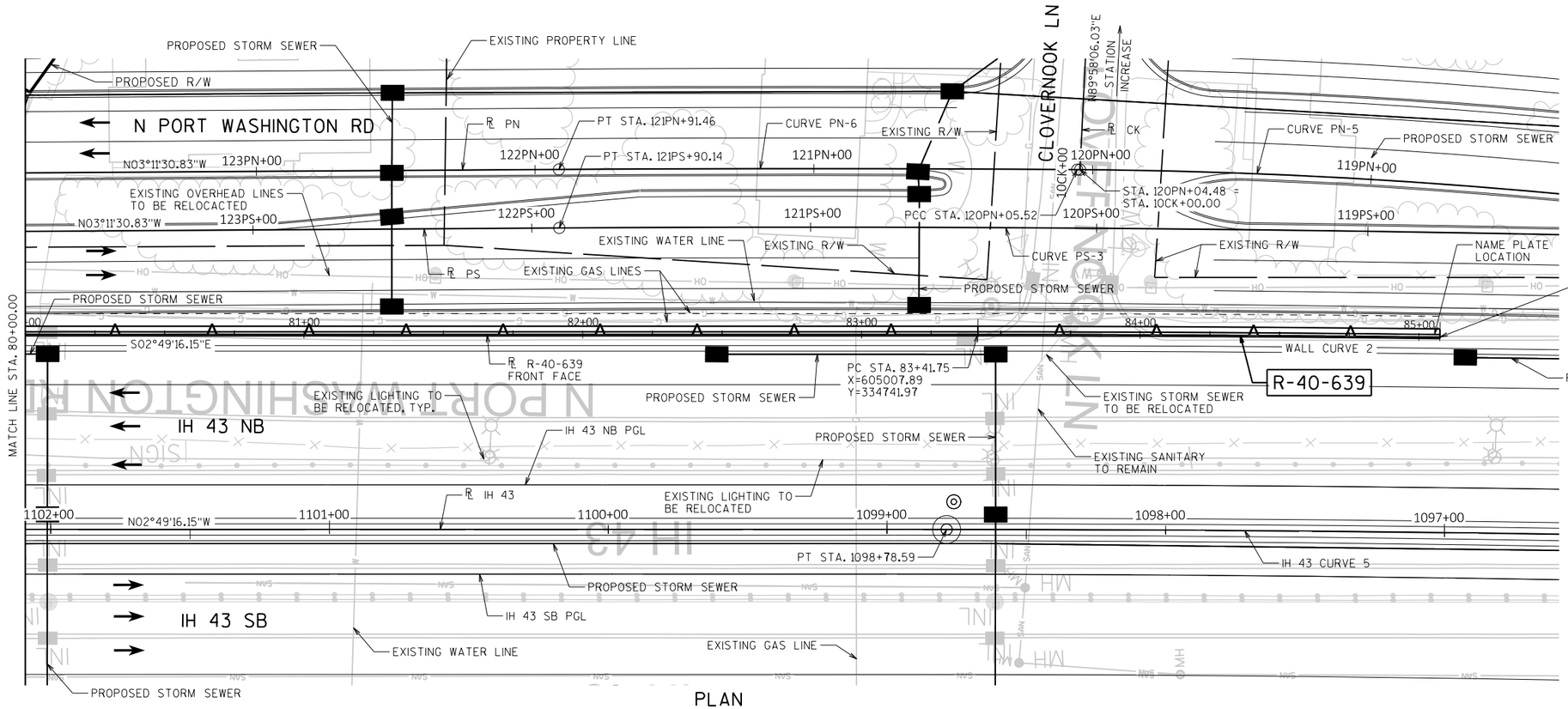
SHEET 2 OF 8

PRELIMINARY PLANS

8

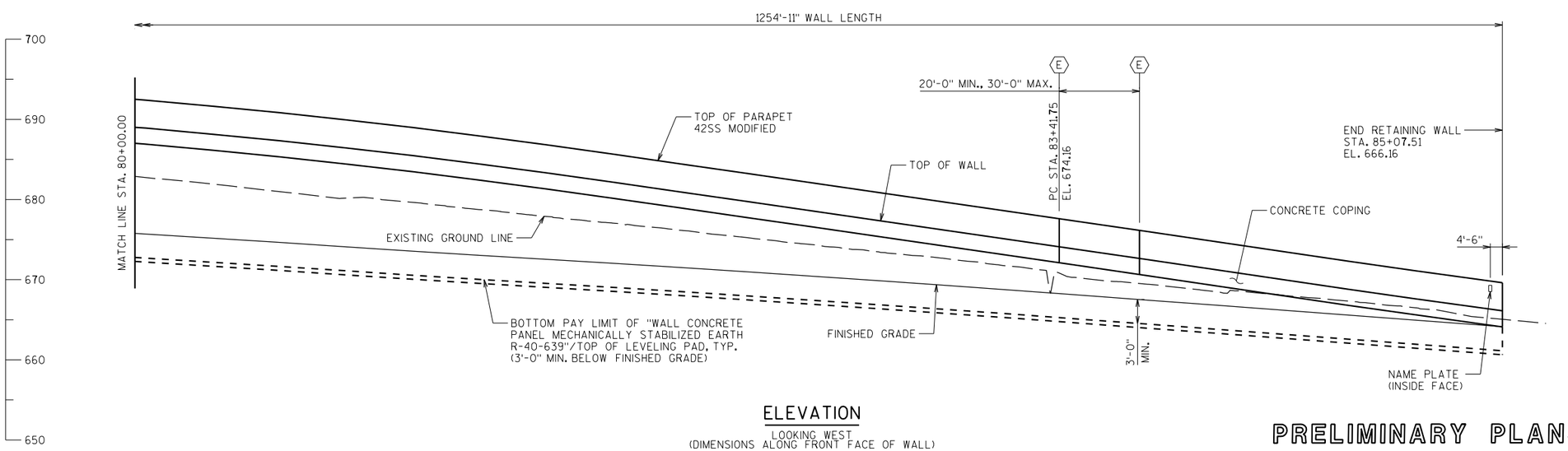
8

STATE PROJECT NUMBER
1229-04-71



PLAN

MSE RETAINING WALL



ELEVATION

LOOKING WEST
(DIMENSIONS ALONG FRONT FACE OF WALL)

NOTE

R-40-639 AND PORT WASHINGTON ROAD TO BE CONSTRUCTED UNDER THIS CONTRACT. IH 43 TO BE CONSTRUCTED LATER UNDER CONTRACT 1229-04-73.

LEGEND

→ DIRECTION OF TRAFFIC

(E) EXPANSION JOINT

PRELIMINARY PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-40-639

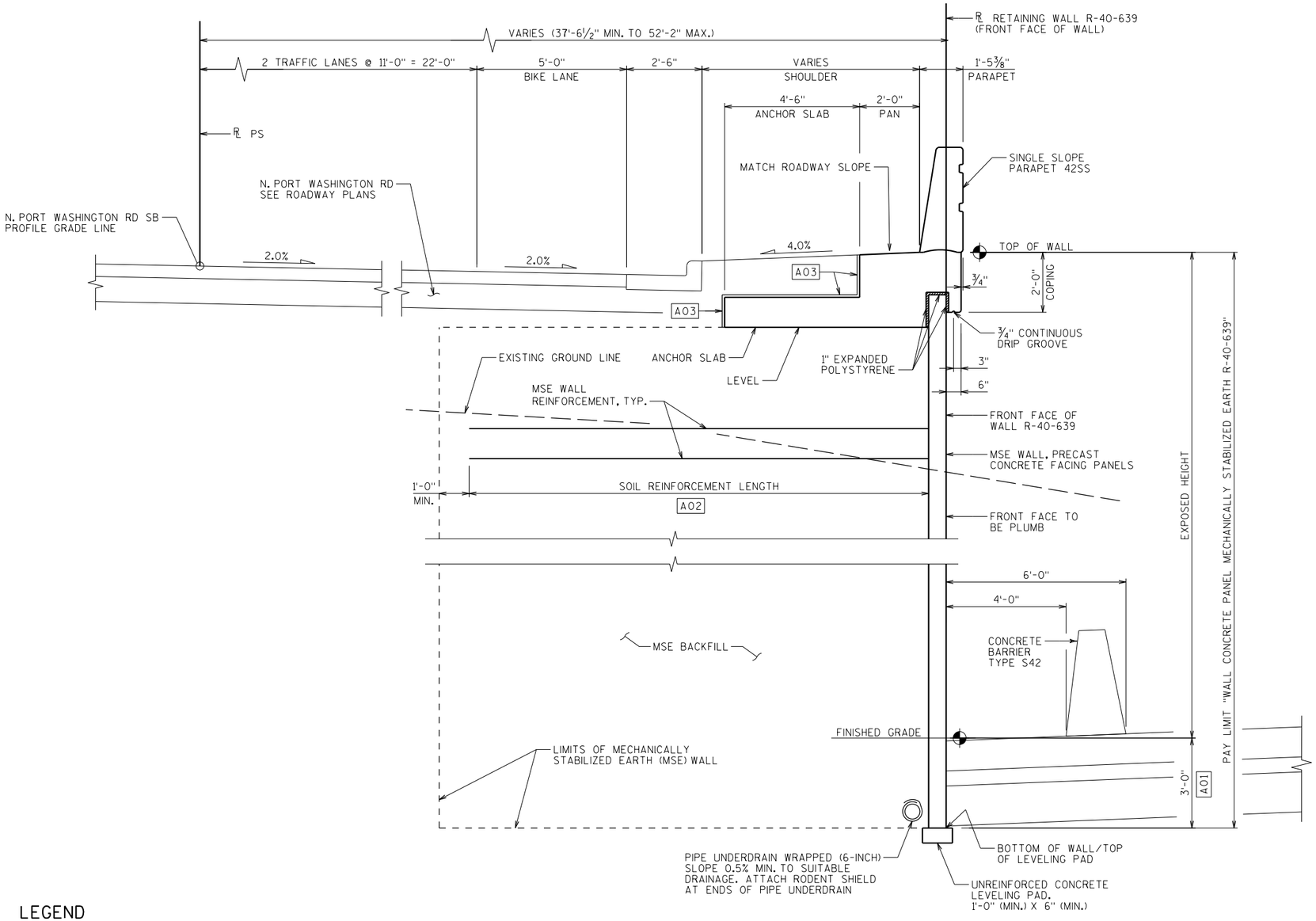
DRAWN BY MM | PLANS CK'D. MHZ

GENERAL PLAN & ELEVATION (3 OF 3)

SHEET 3 OF 8

8

STATE PROJECT NUMBER
1229-04-71



TYPICAL WALL SECTION

LOOKING SOUTH

LEGEND

A01 MINIMUM DIMENSION FROM FINISHED GRADE AT FRONT FACE OF WALL TO TOP OF LEVELING PAD AS SHOWN. PAY LIMITS BASED ON MINIMUM DIMENSION.

A02 SEE EXTERNAL STABILITY EVALUATION TABLE ON THE "PROFILE GRADE LINES & DESIGN DATA" SHEET FOR MINIMUM LENGTH OF MSE WALL REINFORCING STRIPS. SOIL REINFORCEMENT MUST EXTEND A MINIMUM OF 3.0 FEET BEYOND THE FAILURE PLANE FOR INTERNAL STABILITY AS DEFINED BY AASHTO SPECIFICATIONS.

A03 18" RUBBERIZED MEMBRANE WATERPROOFING TO BE PLACED ON THESE SURFACES AT EACH JOINT.

PRELIMINARY PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-40-639

DRAWN BY MM | PLANS CK'D. MHZ

TYPICAL SECTION

SHEET 4 OF 8

8

STATE PROJECT NUMBER
1229-04-71

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BEVEL EXPOSED EDGES OF CONCRETE ¾". UNLESS NOTED OTHERWISE.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), MILWAUKEE COUNTY ZONE, NAD 83 (2007). ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD 88 (2007).

THESE PLANS ARE FOR A PRECAST CONCRETE PANEL MECHANICALLY STABILIZED EARTH (MSE) RETAINING WALL.

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS IS INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-40-639".

THE COST OF FURNISHING AND PLACING MSE BACKFILL WITHIN THE REINFORCED SOIL ZONE IS TO BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-40-639".

THE COST OF FURNISHING AND PLACING THE UNREINFORCED CONCRETE LEVELING PAD UNDER THE MSE PRECAST WALL PANELS IS INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-40-639".

ALL STATIONS AND DIMENSIONS ARE ALONG THE FRONT FACE OF WALL, UNLESS SHOWN OTHERWISE.

ONLY WALL CONCRETE PANEL MSE WALL SYSTEMS THAT USE STRIP TYPE SOIL REINFORCEMENT THAT ARE HINGED AT THE PANEL CONNECTION CAN BE USED FOR THIS PROJECT.

SOIL REINFORCEMENT MAY BE PLACED UP TO A MAXIMUM OF 15° FROM PERPENDICULAR IF NECESSARY TO AVOID INTERFERENCE WITH ITEMS BEHIND THE WALL. ANGLES GREATER THAN 15° REQUIRE APPROVAL FROM THE BUREAU OF STRUCTURES DESIGN SECTION.

BAR STEEL REINFORCEMENT SHALL HAVE 2" CLEAR COVER, UNLESS SHOWN OTHERWISE.

ALL BAR STEEL REINFORCEMENT WITHIN CAST-IN-PLACE CONCRETE TO BE EPOXY COATED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE. BAR DIMENSIONS ARE OUT TO OUT OF BAR.

THE QUANTITIES AND REINFORCEMENT DETAILS ARE BASED ON AN ASSUMED CONCRETE WALL PANEL THICKNESS OF 7½ INCHES. FOR PANEL THICKNESSES DIFFERENT THAN 7½ INCHES, THE CONTRACTOR SHALL VERIFY REINFORCEMENT BAR DETAILS AND QUANTITIES AND WILL BE RESPONSIBLE FOR ANY QUANTITY VARIATIONS.

THE QUANTITIES OF CONCRETE MASONRY & BAR STEEL REINFORCEMENT FOR THE CAST-IN-PLACE ANCHOR SLAB ARE PAID FOR UNDER THE ITEMS "CONCRETE MASONRY RETAINING WALLS" & "BAR STEEL REINFORCEMENT HS COATED STRUCTURES", RESPECTIVELY.

THE PLAN QUANTITY FOR THE ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-40-639" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF THE LEVELING PAD TO THE TOP OF WALL AS SHOWN IN THE PLANS. THE TOP OF LEVELING PAD IS ASSUMED TO BE AT LEAST 3'-0" BELOW FINISHED GRADE.

PLANS, ELEVATIONS, AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.

THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATIONS AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE. UTILITIES LABELED AS PROPOSED MAY BE INSTALLED BY OTHERS PRIOR TO THIS CONTRACT.

APPLY PROTECTIVE SURFACE TREATMENT TO THE EXPOSED TOP SURFACE OF THE ANCHOR SLAB.

APPLY PIGMENTED SURFACE SEALER TO THE TOP AND INSIDE FACE OF THE PARAPET.

REFER TO S.D.D. "NAME PLATE (STRUCTURES)" FOR NAME PLATE DETAILS. NAME PLATE SHALL BE CONSIDERED INCIDENTAL TO BID ITEM "CONCRETE MASONRY RETAINING WALLS".

THE CONTRACTOR MUST COORDINATE THE CONSTRUCTION OF THE STORM SEWER COMPONENTS, INCLUDING INLETS, LATERALS AND STRUCTURES WITH THE CONSTRUCTION OF THE MSE WALL.

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEMS	UNIT	TOTAL
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-
502.3210	PIGMENTED SURFACE SEALER	SY	-
504.0500	CONCRETE MASONRY RETAINING WALLS	CY	-
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	-
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	-
612.0206	PIPE UNDERDRAIN UNPERFORATED 6-INCH	LF	-
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	-
SPV.0165.XXXX	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-40-639	SF	-
	NON-BID ITEMS		
	NAME PLATE	EACH	-
	PREFORMED JOINT FILLER	SIZE	-
	NON-BITUMINOUS JOINT SEALER	SIZE	-
	CORK FILLER	SIZE	-
	EXPANDED POLYSTYRENE	SIZE	-

ALL ITEMS ARE CATEGORY XXXX

8

8

PRELIMINARY PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-40-639

DRAWN BY MM | PLANS CK'D. MHZ

GENERAL NOTES & QUANTITIES

SHEET 5 OF 8

STATE PROJECT NUMBER
1229-04-71

WALL ELEVATIONS ◥

STATION & OFFSET	WALL STATION	TOP OF WALL ELEVATION	FINISHED GRADE ELEVATION
1109+50.00, 70.00' RT	72+52.59	683.68	681.91
1109+27.83, 70.00' RT	72+75.00	683.90	681.94
1109+03.09, 70.00' RT	73+00.00	684.16	681.98
1108+78.36, 70.00' RT	73+25.00	684.49	681.99
1108+53.63, 70.00' RT	73+50.00	684.87	682.00
1108+28.89, 70.00' RT	73+75.00	685.34	681.97
1108+04.16, 70.00' RT	74+00.00	685.82	681.95
1107+79.43, 70.00' RT	74+25.00	686.37	681.90
1107+54.70, 70.00' RT	74+50.00	686.96	681.84
1107+29.96, 70.00' RT	74+75.00	687.58	681.76
1107+05.23, 70.00' RT	75+00.00	688.19	681.67
1106+80.50, 70.00' RT	75+25.00	688.80	681.56
1106+55.77, 70.00' RT	75+50.00	689.42	681.45
1106+31.03, 70.00' RT	75+75.00	689.99	681.31
1106+06.30, 70.00' RT	76+00.00	690.56	681.16
1105+81.57, 70.00' RT	76+25.00	691.01	680.99
1105+56.84, 70.00' RT	76+50.00	691.42	680.81
1105+32.10, 70.00' RT	76+75.00	691.72	680.61
1105+07.37, 70.00' RT	77+00.00	691.97	680.40
1104+82.64, 70.00' RT	77+25.00	692.12	680.17
1104+57.91, 70.00' RT	77+50.00	692.22	679.93
1104+33.17, 70.00' RT	77+75.00	692.22	679.67
1104+08.44, 70.00' RT	78+00.00	692.18	679.41
1103+83.71, 70.00' RT	78+25.00	692.01	678.98
1103+58.98, 70.00' RT	78+50.00	691.80	678.53
1103+44.48, 70.00' RT	78+64.66	691.64	678.26

LEGEND

◥ LINEARLY INTERPOLATE WALL ELEVATIONS BETWEEN STATIONS.

WALL ELEVATIONS CONTINUED ◥

STATION & OFFSET	WALL STATION	TOP OF WALL ELEVATION	FINISHED GRADE ELEVATION
1103+34.13, 70.00' RT	78+75.00	691.52	678.07
1103+09.13, 70.00' RT	79+00.00	691.15	677.64
1102+84.13, 70.00' RT	79+25.00	690.70	677.18
1102+59.13, 70.00' RT	79+50.00	690.20	676.72
1102+34.13, 70.00' RT	79+75.00	689.61	676.24
1102+09.13, 70.00' RT	80+00.00	688.96	675.74
1101+84.13, 70.00' RT	80+25.00	688.19	675.22
1101+59.13, 70.00' RT	80+50.00	687.38	674.69
1101+34.13, 70.00' RT	80+75.00	686.48	674.15
1101+09.13, 70.00' RT	81+00.00	685.52	673.59
1100+84.13, 70.00' RT	81+25.00	684.47	673.08
1100+59.13, 70.00' RT	81+50.00	683.36	672.59
1100+34.13, 70.00' RT	81+75.00	682.20	672.08
1100+09.13, 70.00' RT	82+00.00	681.00	671.56
1099+84.13, 70.00' RT	82+25.00	679.80	671.02
1099+59.13, 70.00' RT	82+50.00	678.59	670.47
1099+34.13, 70.00' RT	82+75.00	677.39	669.90
1099+09.13, 70.00' RT	83+00.00	676.18	669.32
1098+84.13, 70.00' RT	83+25.00	674.97	668.73
1098+67.44, 70.00' RT	83+41.75	674.16	668.32
1098+59.23, 70.01' RT	83+50.00	673.76	668.11
1098+34.35, 70.03' RT	83+75.00	672.53	667.49
1098+09.48, 70.05' RT	84+00.00	671.30	666.87
1097+84.60, 70.07' RT	84+25.00	670.07	666.24
1097+59.72, 70.09' RT	84+50.00	668.84	665.62
1097+34.85, 70.11' RT	84+75.00	667.66	664.99
1097+09.97, 70.13' RT	85+00.00	666.51	664.37
1097+02.50, 70.14' RT	85+07.51	666.16	664.18

HORIZONTAL CURVE DATA

WALL CURVE 1

PI = STA. 74+32.96
Y = 335650.92
X = 604963.09
DELTA = 07°34'14"
D = 00°52'32"
T = 432.96'
L = 864.66'
R = 6544.00'
PC = STA. 70+00.00
Y = 336076.78
X = 604885.00
PT = STA. 78+64.66
Y = 335218.49
X = 604984.40

WALL CURVE 2

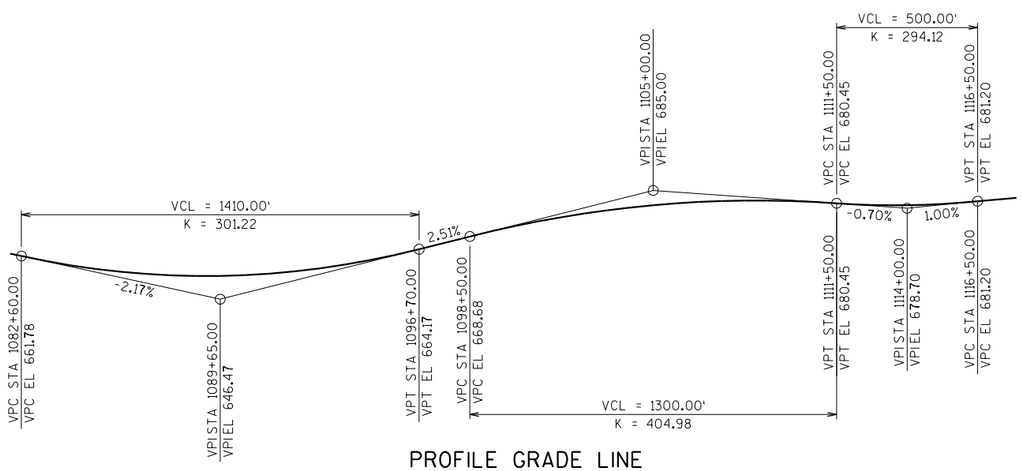
PI = STA. 84+24.63
Y = 334659.19
X = 605011.96
DELTA = 00°40'10"
D = 00°24'14"
T = 82.88'
L = 165.76'
R = 14186.00'
PC = STA. 83+41.75
Y = 334741.97
X = 605007.89
PT = STA. 85+07.51
Y = 334576.37
X = 605015.08

IH 43 CURVE 5

PI = STA. 1094+64.12
Y = 334335.51
X = 604957.83
DELTA = 03°21'56"
D = 00°24'21"
T = 414.71'
L = 829.17'
R = 14116.00'
PC = STA. 1090+49.41
Y = 333920.83
X = 604953.89
PT = STA. 1098+78.59
Y = 334749.72
X = 604937.42

IH 43 CURVE 6

PI = STA. 1107+67.39
Y = 335637.44
X = 604893.67
DELTA = 07°28'30"
D = 00°53'06"
T = 422.91'
L = 844.62'
R = 6474.00'
PC = STA. 1103+44.48
Y = 335215.04
X = 604914.49
PT = STA. 1111+89.10
Y = 336053.54
X = 604818.08



PROFILE GRADE LINE
MAINLINE IH 43 NB

WALL EXTERNAL & OVERALL STABILITY EVALUATION

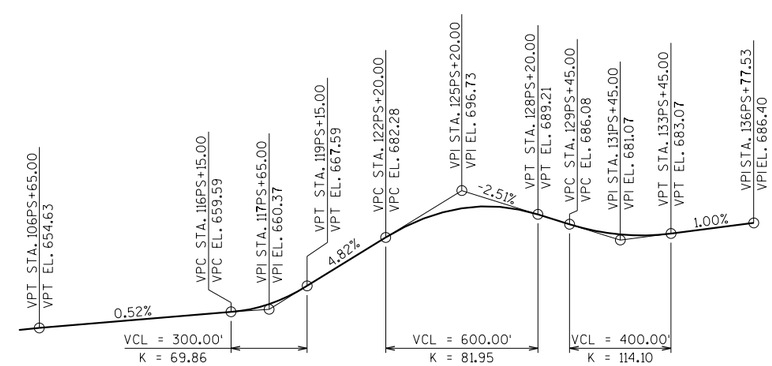
DIMENSIONS	EVALUATED LOCATIONS		
WALL HEIGHT (FEET)	-	-	-
EXPOSED WALL HEIGHT (FEET)	-	-	-
MINIMUM LENGTH OF REINFORCEMENT (FEET) ◪	-	-	-
WALL STATION	-	-	-
BORING USED	-	-	-
CAPACITY TO DEMAND RATIO (CDR)			
SLIDING (CDR>1.0)	-	-	-
ECCENTRICITY (CDR>1.0)	-	-	-
OVERALL STABILITY (CDR>1.0)	-	-	-
BEARING RESISTANCE (CDR>1.0)	-	-	-
FACTORED BEARING RESISTANCE (PSF)	-	-	-

◪ THE LENGTHS PROVIDED IN THE TABLE ARE THE MINIMUM REQUIRED REINFORCEMENT LENGTHS BASED UPON THE MINIMUM DESCRIBED IN THE WALL SYSTEM SPECIAL PROVISIONS OR EXTERNAL AND GLOBAL STABILITY AT THE DESIGNATED LOCATIONS. THESE DESIGNATED LOCATIONS REPRESENT TYPICAL AND CRITICAL WALL LOCATIONS, BUT SHALL NOT BE CONSIDERED ALL INCLUSIVE. THE CONTRACTOR DESIGNED LENGTHS SHALL MEET OR EXCEED THE MINIMUM VALUES REPRESENTED IN THE TABLE AT THESE DESIGNATED LOCATIONS.

SOIL PARAMETERS

STRATUM LOCATIONS & SOIL DESCRIPTIONS	UNIT WEIGHT (PCF)	SHORT-TERM (UNDRAINED)		LONG-TERM (DRAINED)	
		FRICTION ANGLE (DEGREES)	COHESION (PCF)	FRICTION ANGLE (DEGREES)	COHESION (PCF)
GRANULAR BACKFILL (REINFORCING ZONE OR BACKFILL)	-	-	-	-	-
(INSERT SOIL TYPE) RETAINED SOIL *	-	-	-	-	-
(INSERT SOIL TYPE) FILL EL. XXX.XX - EL. XXX.XX	-	-	-	-	-
(INSERT SOIL TYPE) FILL EL. XXX.XX - EL. XXX.XX	-	-	-	-	-
(INSERT SOIL TYPE) FILL EL. XXX.XX - EL. XXX.XX	-	-	-	-	-

* DESIGN WALL FOR THESE VALUES



PROFILE GRADE LINE
N PORT WASHINGTON RD SB

PRELIMINARY PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-40-639

DRAWN BY MM | PLANS CK'D. MHZ

PROFILE GRADE LINES & DESIGN DATA

SHEET 6 OF 8

8

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
NB110-04	APRIL 22, 2014	335474	604993
NB110-05	JULY 10, 2014	335675	604946
NB111-01	JULY 14, 2014	335869	604947

BORINGS COMPLETED BY: GESTRA ENGINEERING, INC.
REPORT COMPLETED BY: HNTB CORP.
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) MILWAUKEE COUNTY

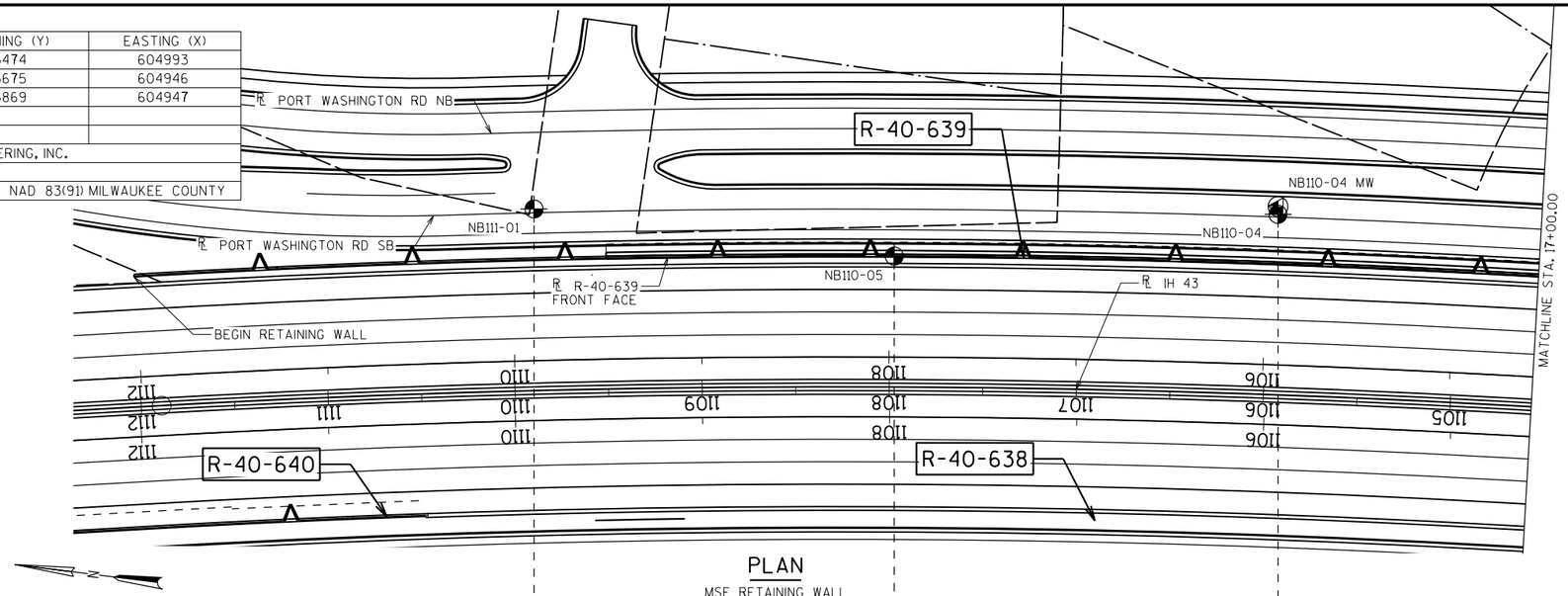
NOTE:

THE SUBSURFACE INFORMATION PRESENTED HEREIN IS AN ABBREVIATED VERSION OF THE INFORMATION PRESENTED IN THE GEOTECHNICAL ENGINEERING REPORT. REVIEW THE APPROPRIATE GEOTECHNICAL REPORT AND SOIL BORING LOGS FOR ADDITIONAL SUBSURFACE INFORMATION.

WATER LEVELS INDICATED MAY NOT BE REPRESENTATIVE OF HYDROSTATIC WATER LEVELS.

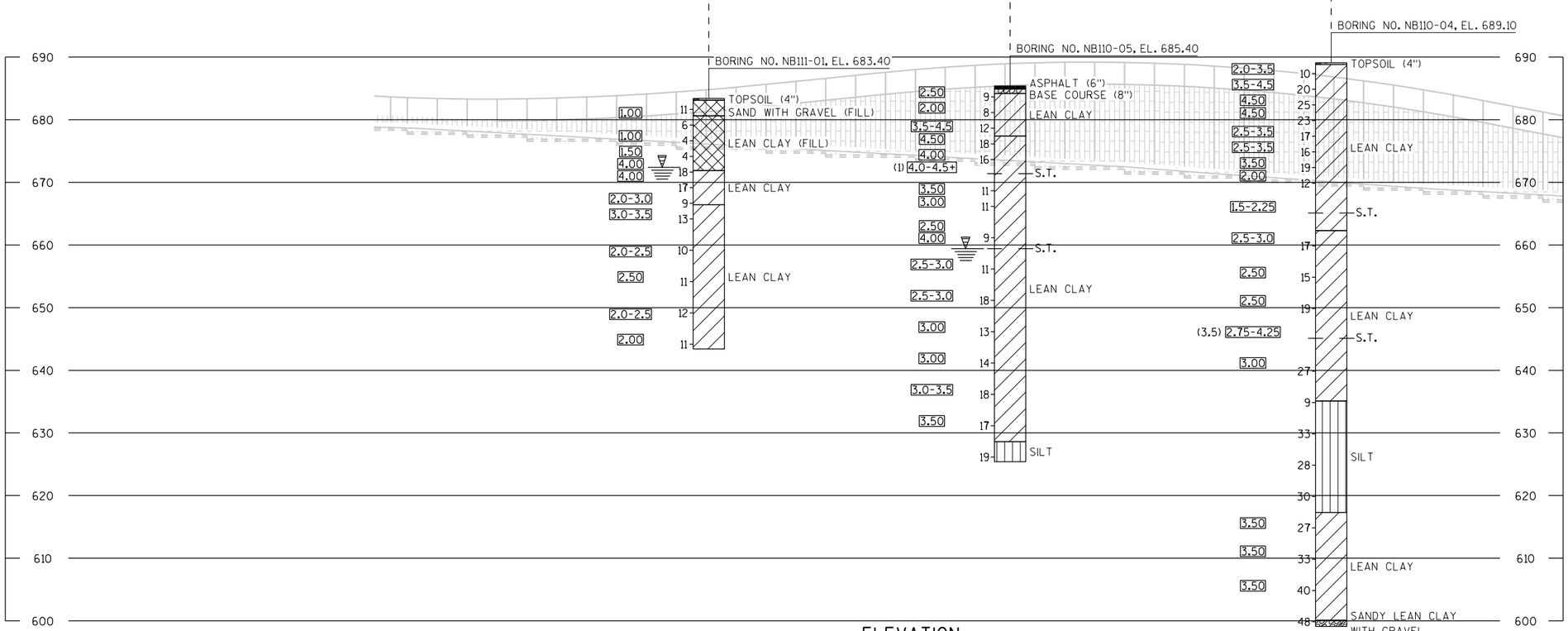
HISTORICAL BORING LOCATIONS ARE APPROXIMATE. ADDITIONAL INFORMATION IS AVAILABLE FROM THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DENOTES SOIL BORING LOCATION
DENOTES MONITORING WELL LOCATION
DENOTES HISTORICAL BORING



PLAN

MSE RETAINING WALL



ELEVATION

LOOKING EAST AT FRONT FACE OF WALL

PRELIMINARY

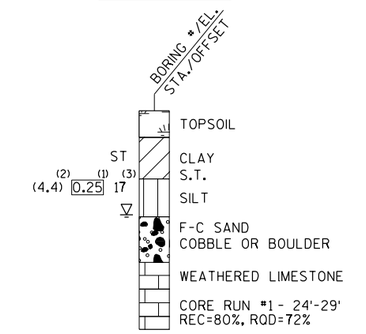
STATE PROJECT NUMBER

1229-04-71

MATERIAL SYMBOLS

ASPHALT, TOPSOIL, PEAT, CONCRETE, FILL, GRAVEL, SAND, CLAY, SILT, BOULDERS OR COBBLES, LIMESTONE, BEDROCK (UNKNOWN), SHALE, SANDSTONE, IGNEOUS/META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNCONFINED STRENGTH, AS DETERMINED BY UNCONFINED COMPRESSION TEST

(3) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

AT TIME OF DRILLING
END OF DRILLING
AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE S.T.-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-40-639

DRAWN BY NNM | PLANS CK'D. EAJ

SUBSURFACE EXPLORATION

SHEET 7 OF 8

8

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
NB109-01	JUNE 11, 2014	334693	605035
NB110-01	JULY 8, 2014	334876	605003
NB110-02	MAY 1, 2014	335063	604996
NB110-03	JULY 9, 2014	335324	605019
BORINGS COMPLETED BY: GESTRA ENGINEERING, INC.			
REPORT COMPLETED BY: HNTB CORP.			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) MILWAUKEE COUNTY			

NOTE:

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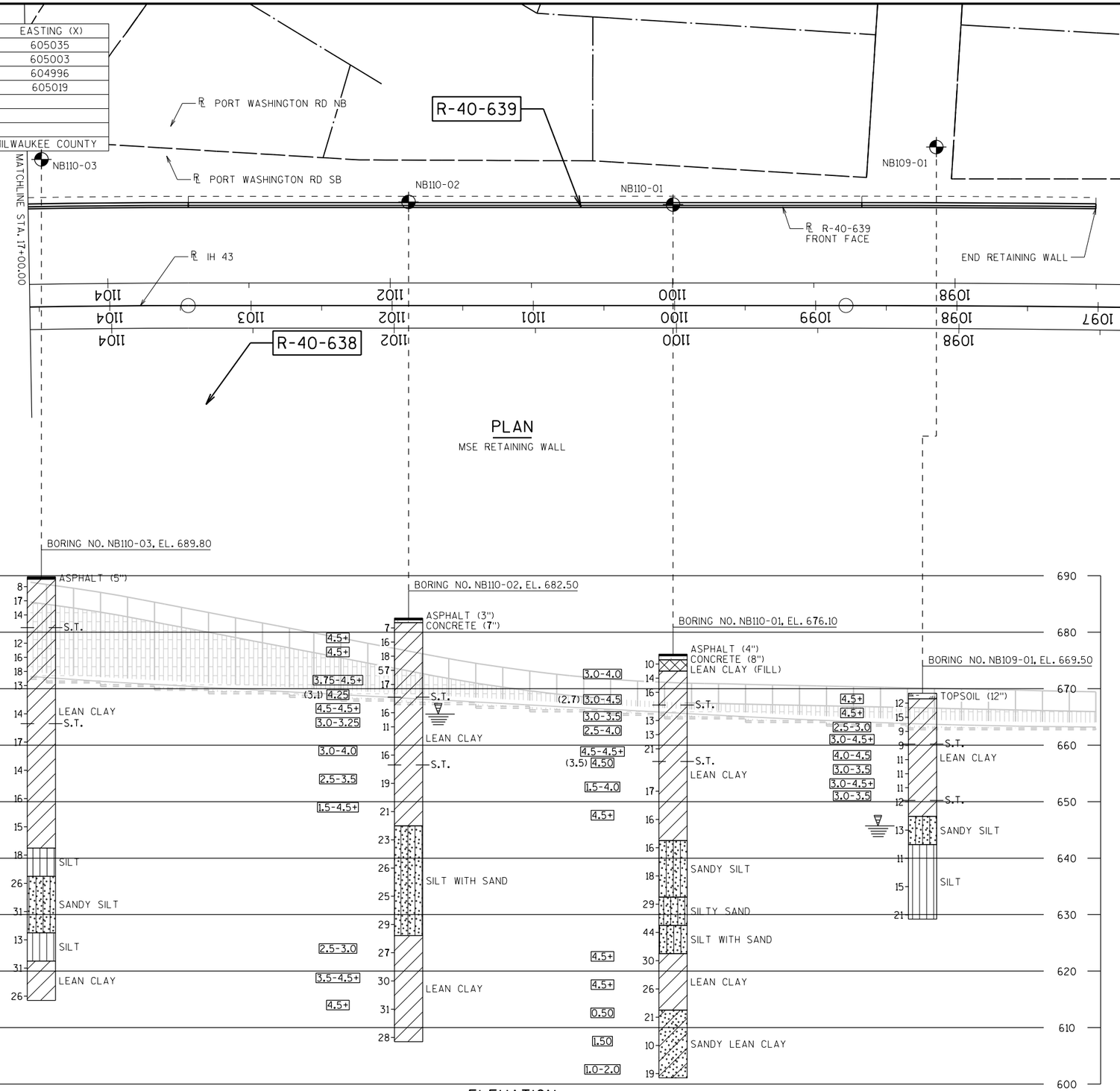
DENOTES SOIL BORING LOCATION

DENOTES MONITORING WELL LOCATION

DENOTES HISTORICAL BORING



PRELIMINARY

STATE PROJECT NUMBER

1229-04-71

MATERIAL SYMBOLS

ASPHALT, TOPSOIL, PEAT, CONCRETE, FILL, GRAVEL, SAND, CLAY, SILT, BOULDERS OR COBBLES, LIMESTONE, BEDROCK (UNKNOWN), SHALE, SANDSTONE, IGNEOUS/META

LEGEND OF BORING

BORING #/EL. STA./OFFSET

TOPSOIL
CLAY
S.T.
SILT
F-C SAND
COBBLE OR BOULDER
WEATHERED LIMESTONE
CORE RUN #1 - 24'-29' REC=80%, RQD=72%

ST (2) (1) (3) (4.4) 0.25 17

(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNCONFINED STRENGTH, AS DETERMINED BY UNCONFINED COMPRESSION TEST

(3) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

AT TIME OF DRILLING

END OF DRILLING

AFTER DRILLING

ABBREVIATIONS

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-40-639

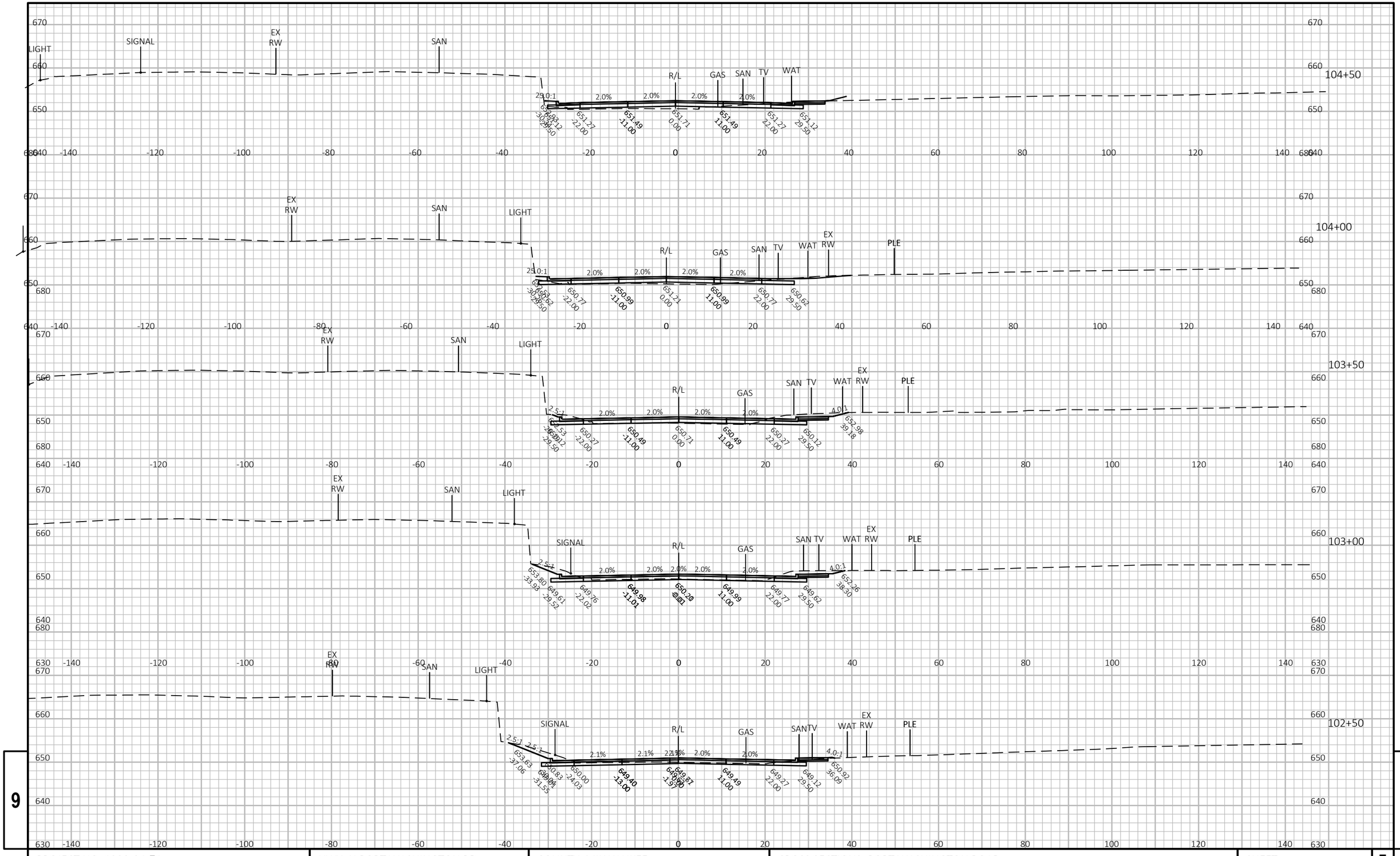
DRAWN BY NNM | PLANS CK'D. EAJ

SUBSURFACE EXPLORATION

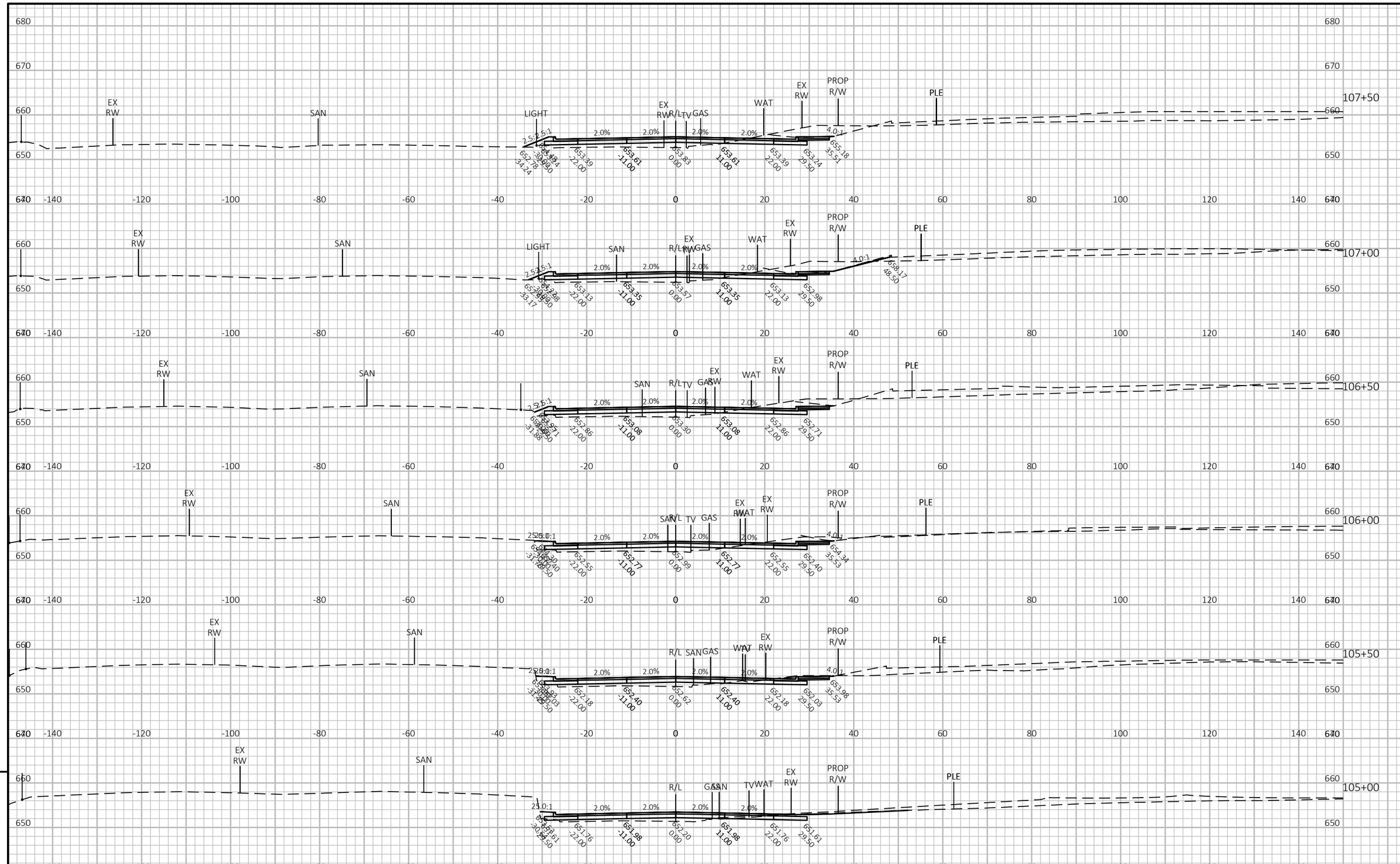
SHEET 8 OF 8

8

PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	CROSS SECTIONS: PORT WASHINGTON ROAD	SHEET	E



PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	CROSS SECTIONS: PORT WASHINGTON ROAD	SHEET	E



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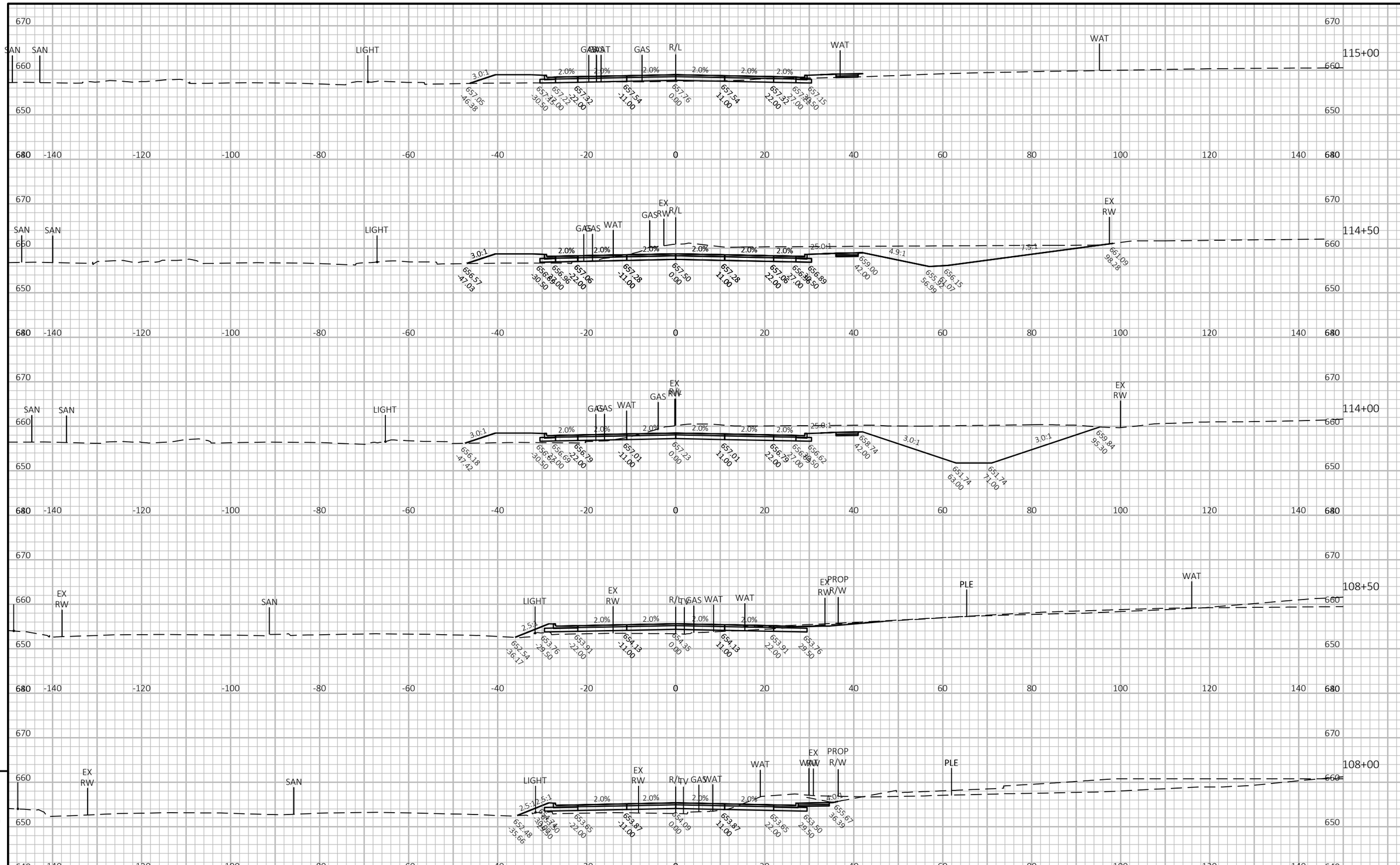
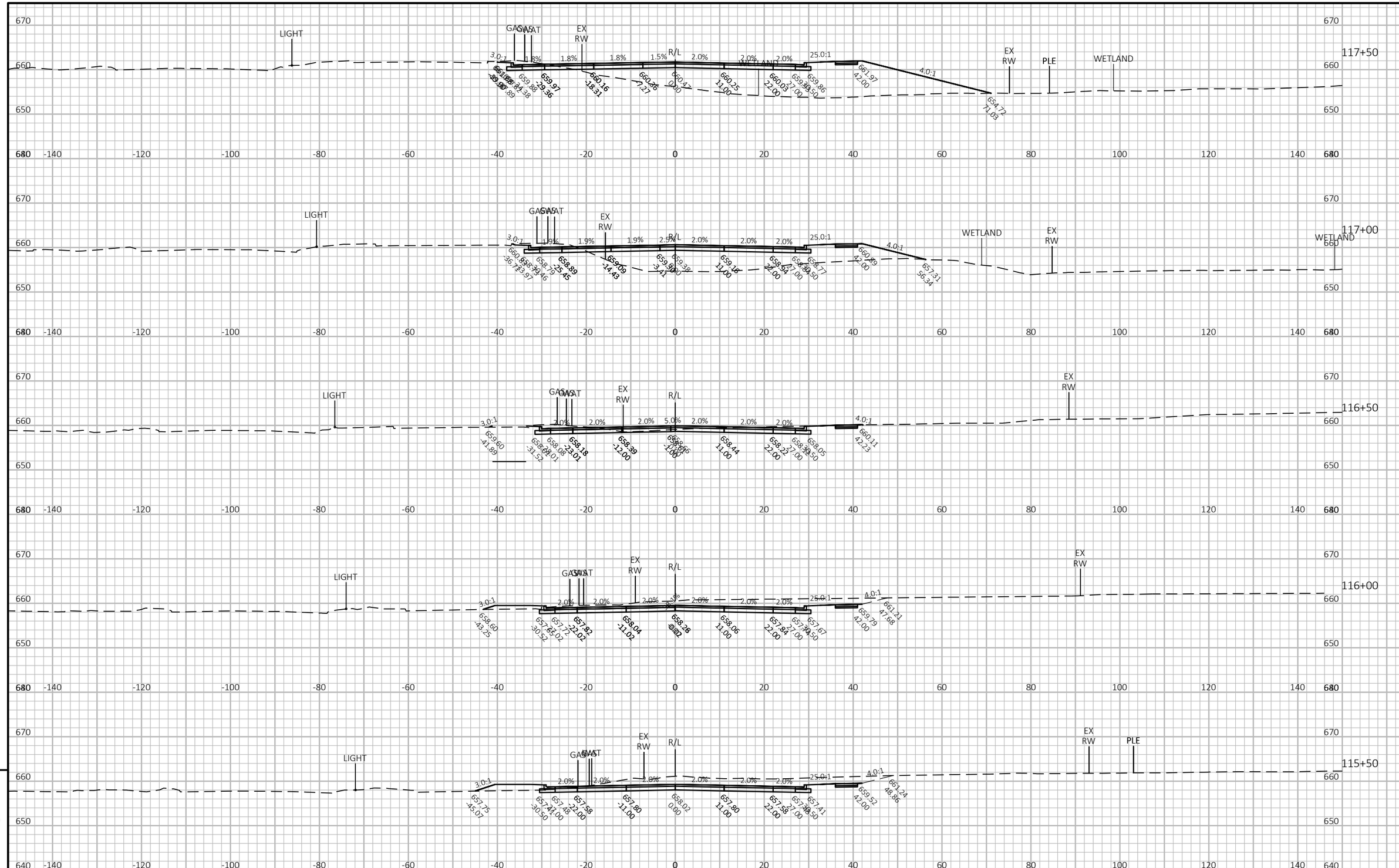
PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	CROSS SECTIONS: PORT WASHINGTON ROAD	SHEET	E



PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	CROSS SECTIONS: PORT WASHINGTON ROAD	SHEET	E

FILE NAME : C:\CADDLIB\PW\HNTB_DCARY\GREATLAKES\D0256197\090309-XS-PW-SOUTH.DWG PLOT DATE : 11/30/2020 2:02 PM PLOT BY : DAN CARY PLOT NAME :

WISDOT/CADDS SHEET 49



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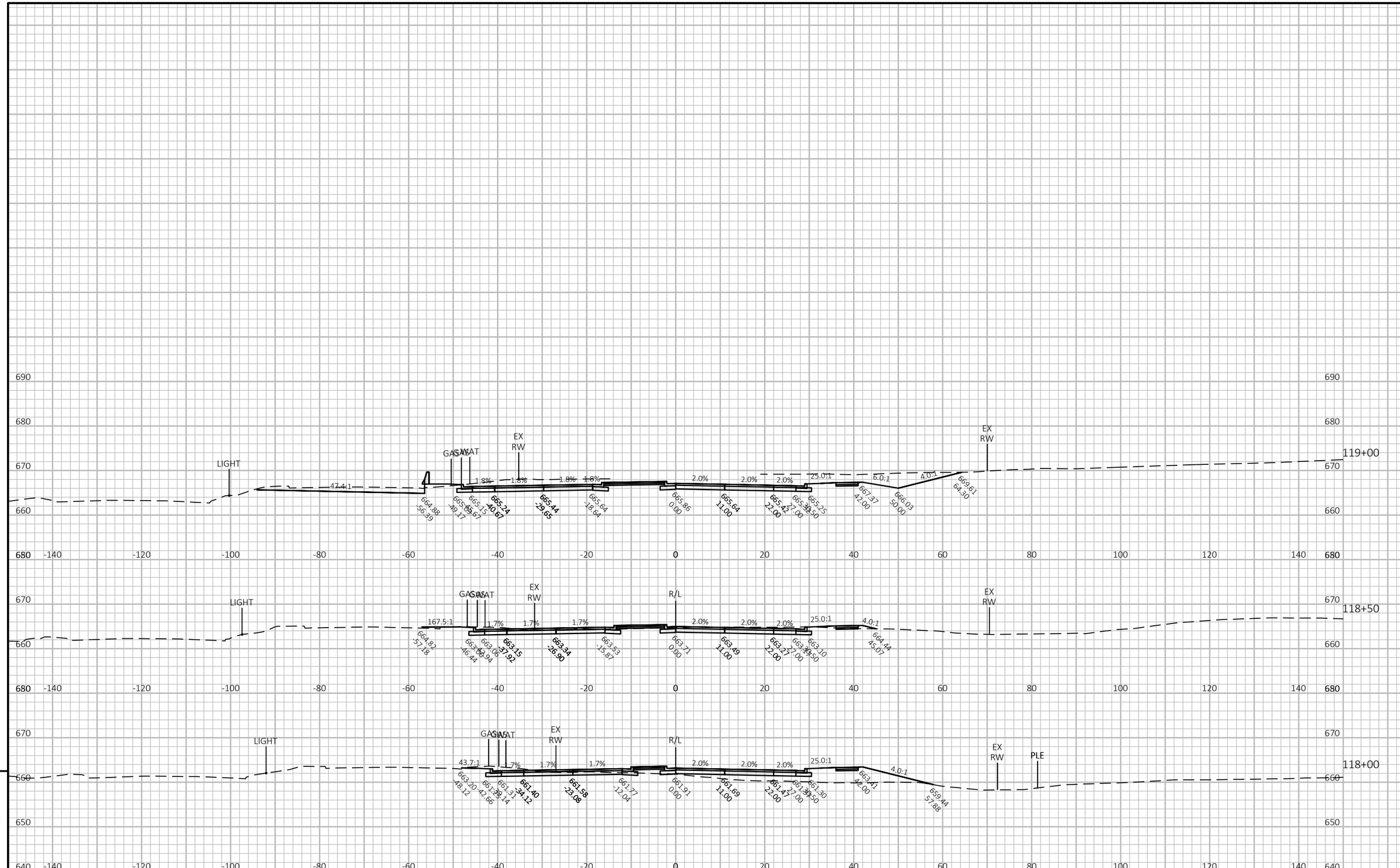
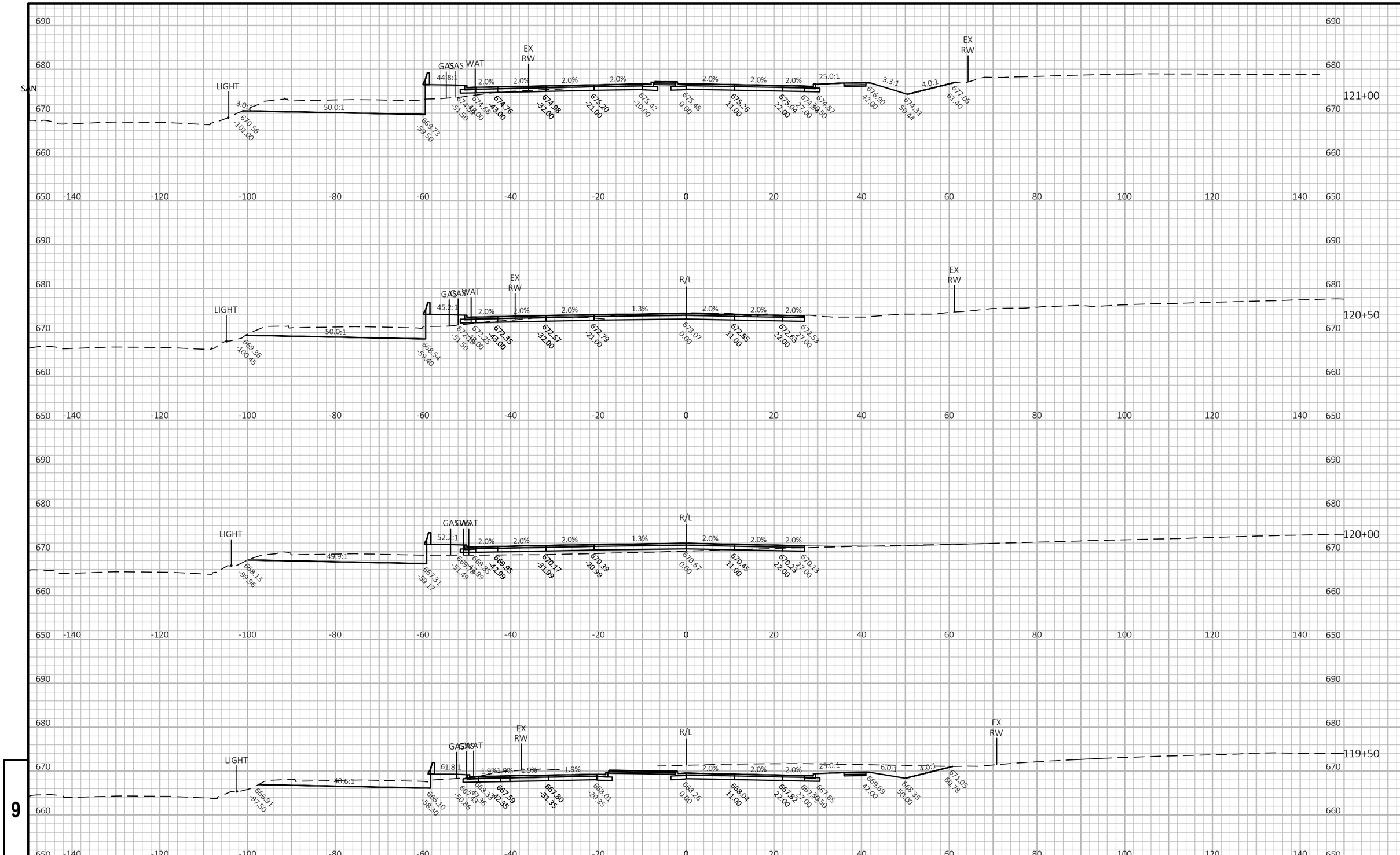
PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	CROSS SECTIONS: PORT WASHINGTON ROAD	SHEET	E

FILE NAME : C:\CADDLIB\PW\HNTB_DCARY\GREATLAKES\D0256197\090309-XS-PW-SOUTH.DWG PLOT DATE : 11/30/2020 2:02 PM PLOT BY : DAN CARY PLOT NAME :

WISDOT/CADDS SHEET 49



PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	CROSS SECTIONS: PORT WASHINGTON ROAD	SHEET	E



PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	CROSS SECTIONS: PORT WASHINGTON ROAD	SHEET	E

FILE NAME : C:\CADDLIB\PW\HNTB_DCARY\GREATLAKES\D0256197\090309-XS-PW-NORTH.DWG PLOT DATE : 11/30/2020 3:11 PM PLOT BY : DAN CARY PLOT NAME :

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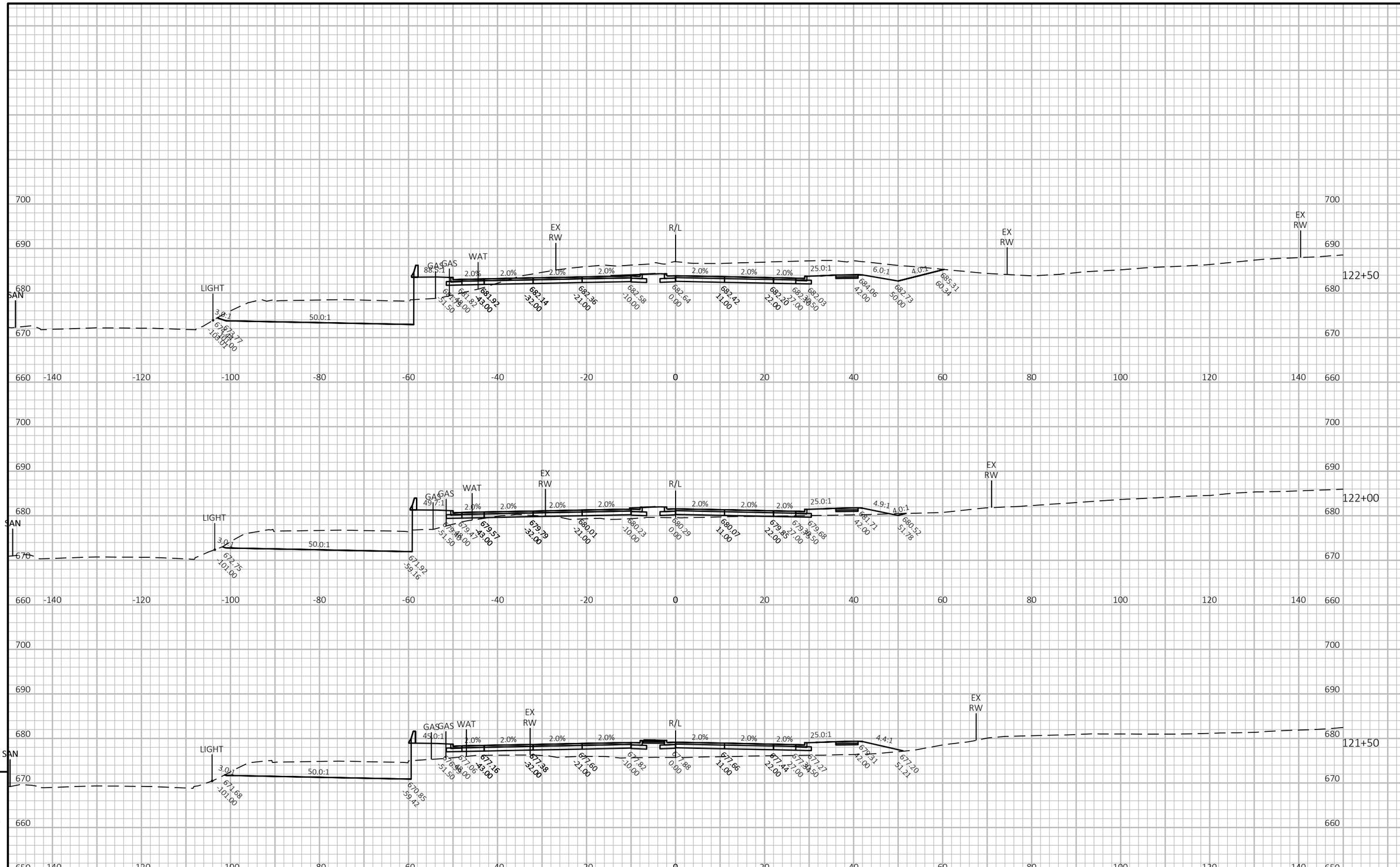

PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	CROSS SECTIONS: PORT WASHINGTON ROAD	SHEET	E

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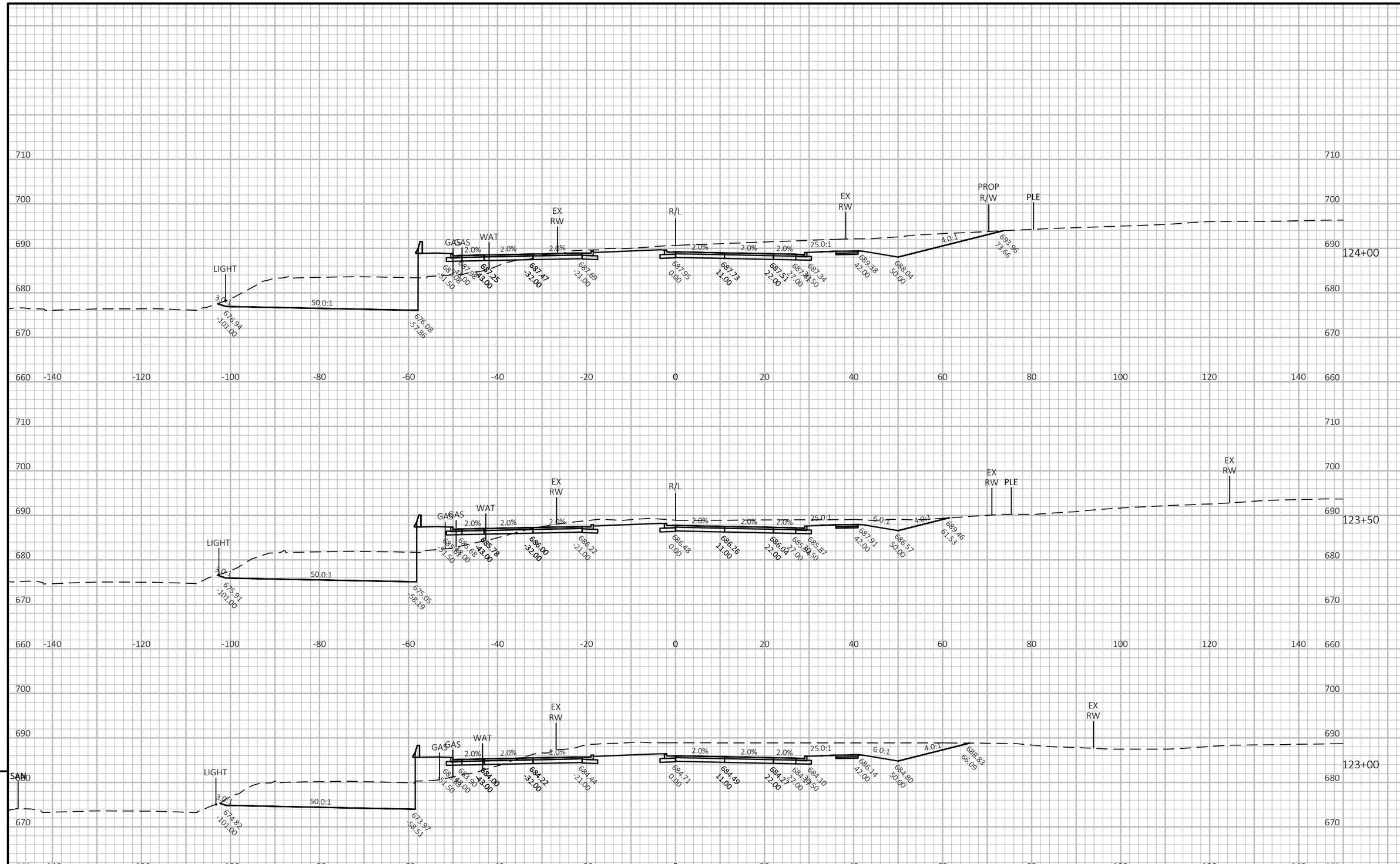
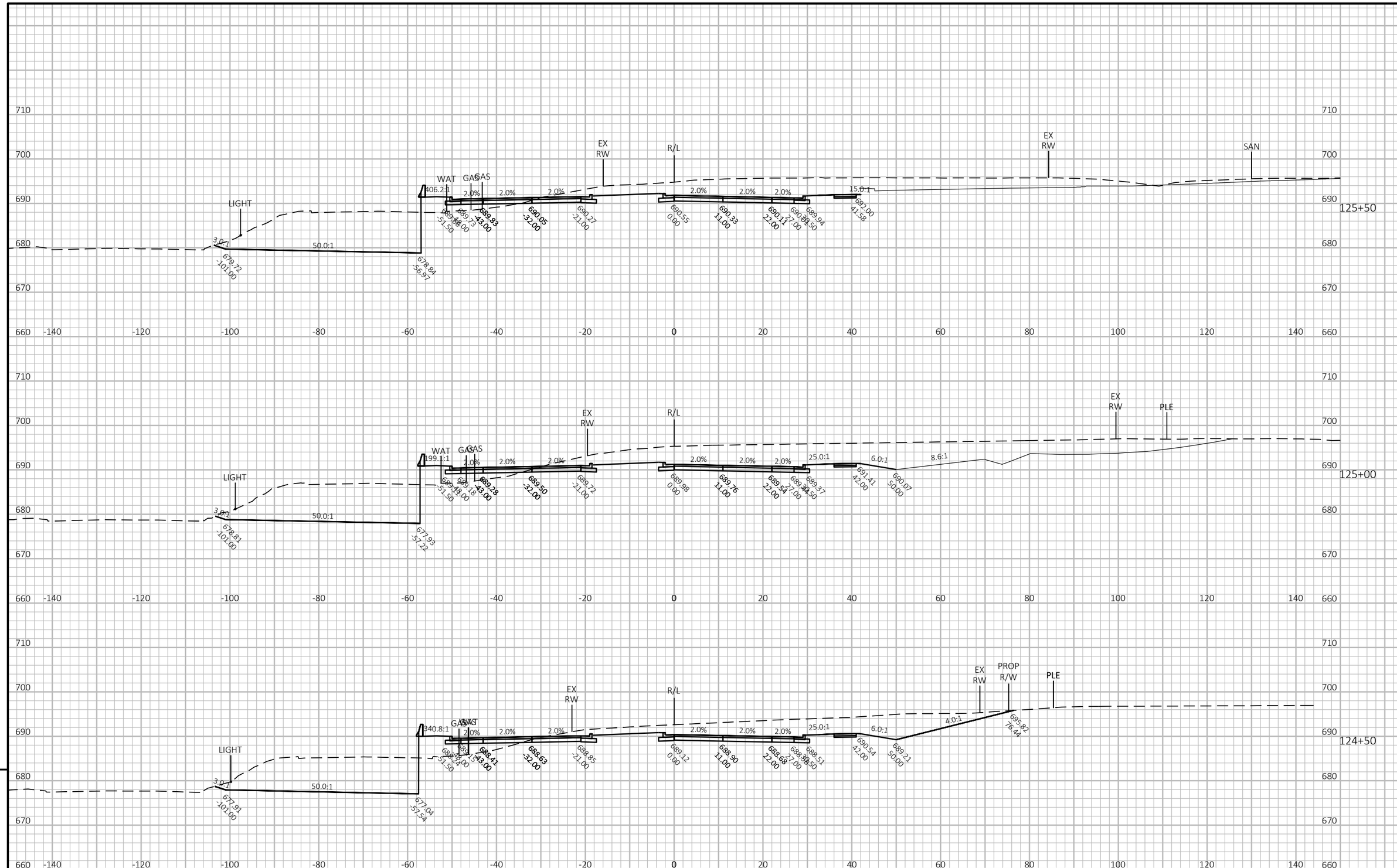


PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	CROSS SECTIONS: PORT WASHINGTON ROAD	SHEET	E



PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	CROSS SECTIONS: PORT WASHINGTON ROAD	SHEET	E

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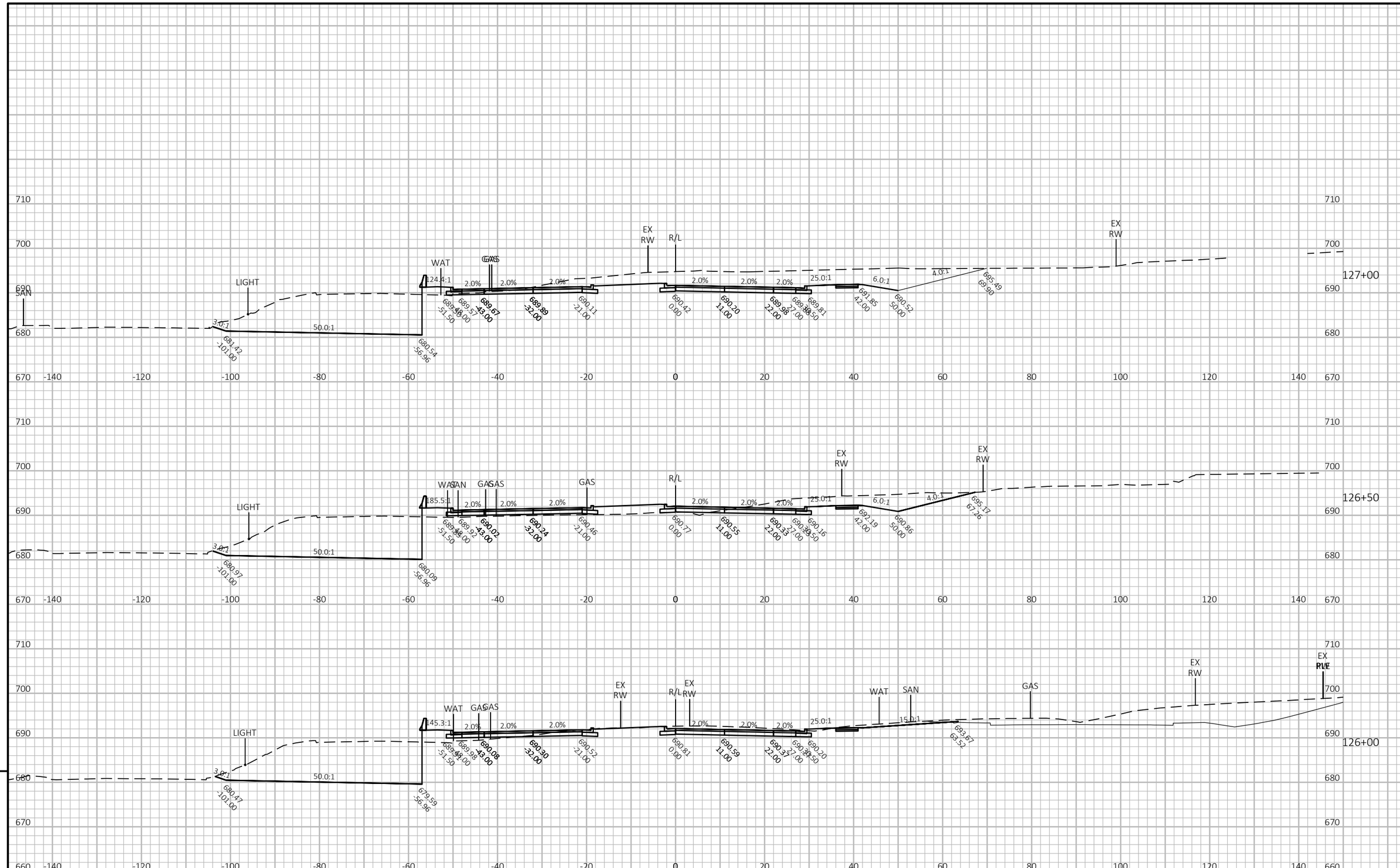

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PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	CROSS SECTIONS: PORT WASHINGTON ROAD	SHEET	E

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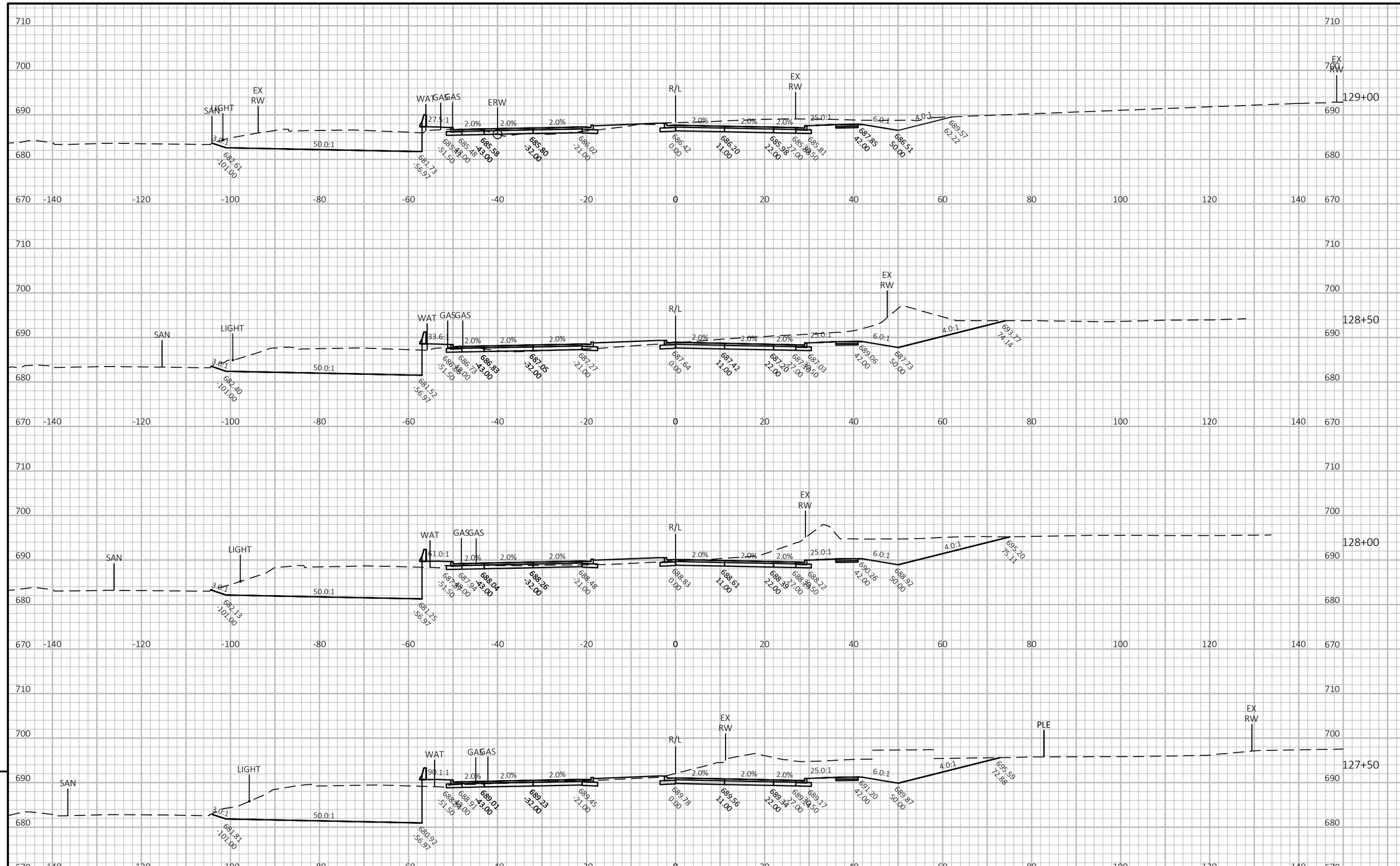
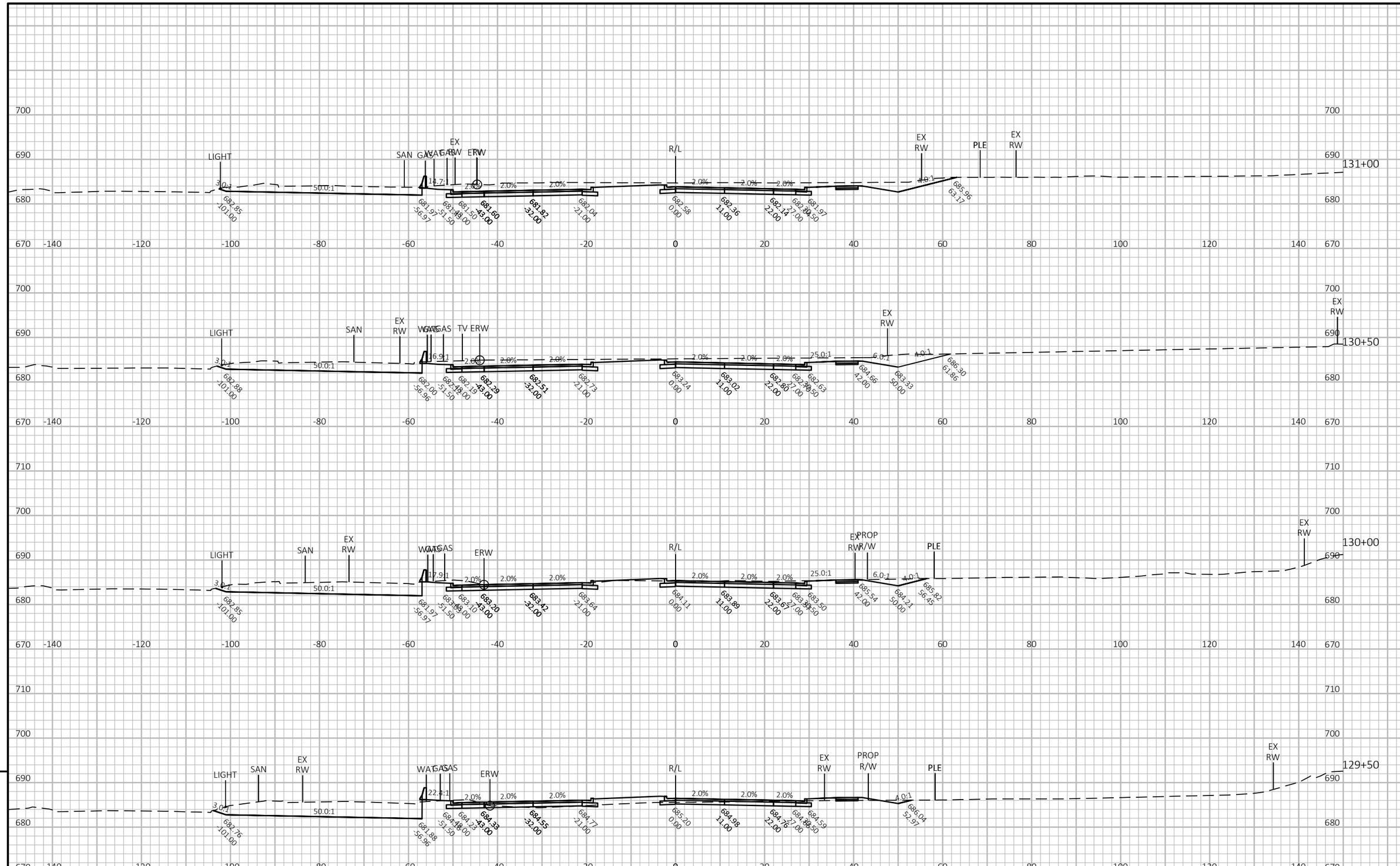
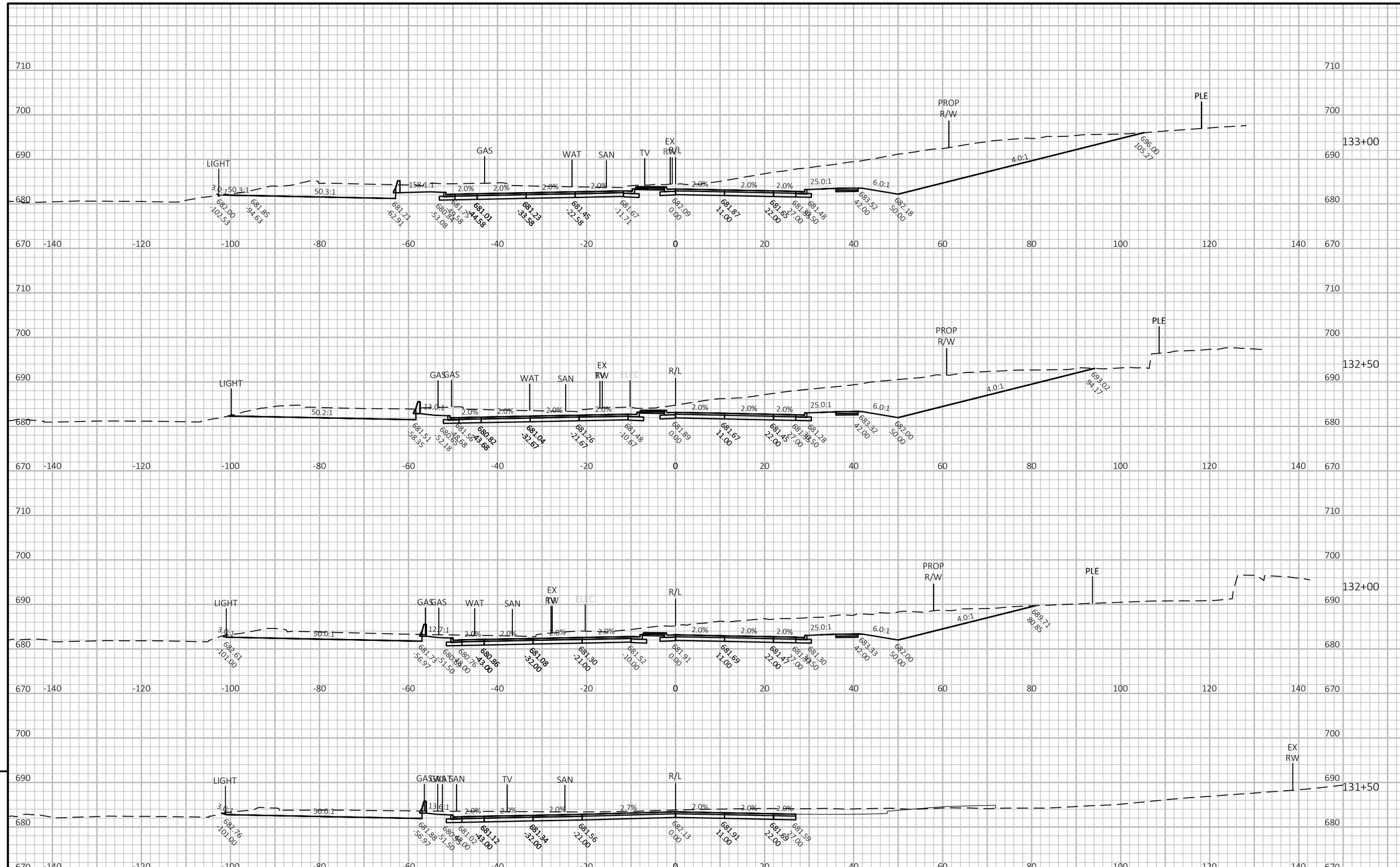
WISDOT/CADDS SHEET 49



PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	CROSS SECTIONS: PORT WASHINGTON ROAD	SHEET	E



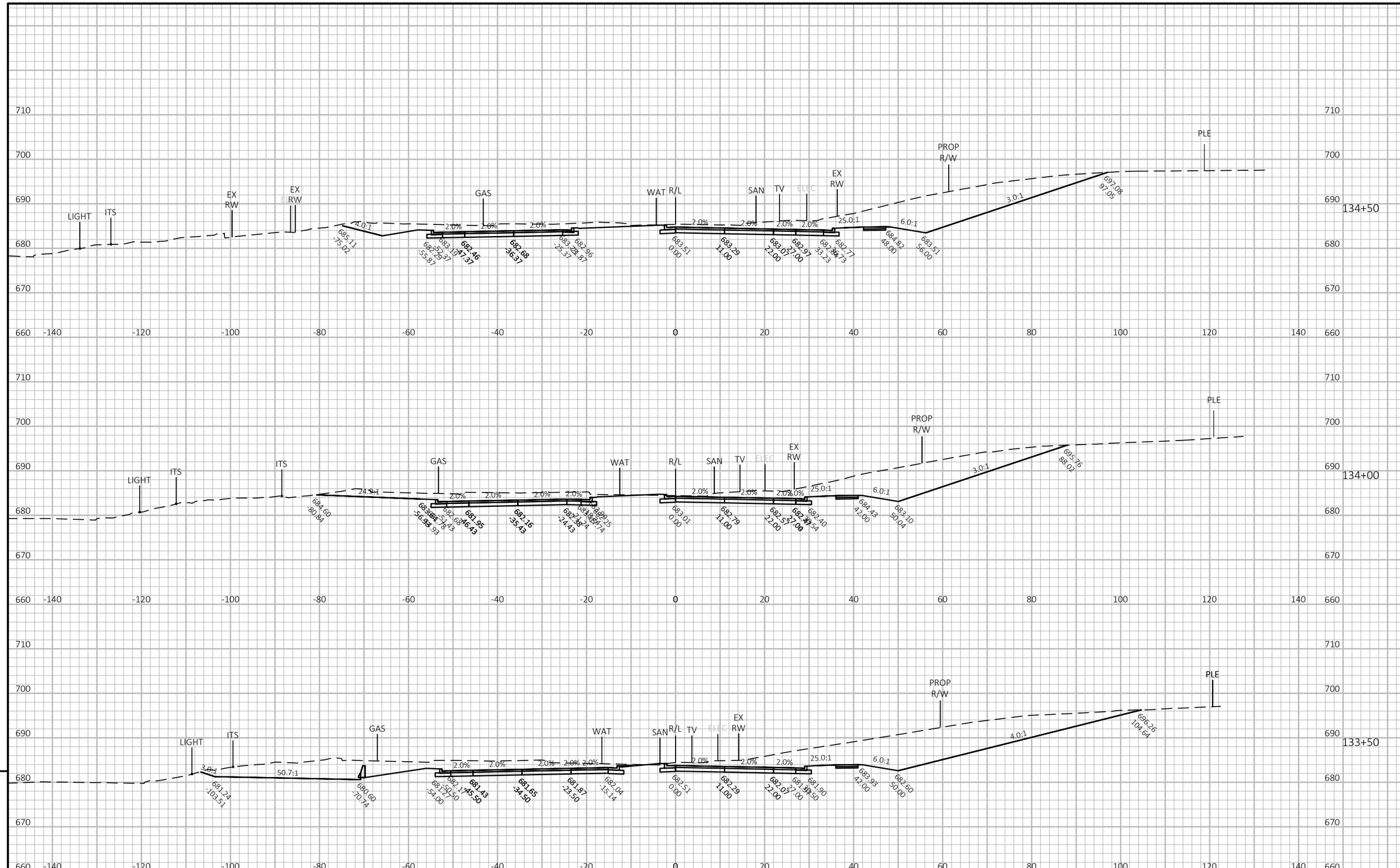
PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	CROSS SECTIONS: PORT WASHINGTON ROAD	SHEET	E



PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	CROSS SECTIONS: PORT WASHINGTON ROAD	SHEET	E

FILE NAME : C:\CADDLIB\PW\HNTB_DCARY\GREATLAKES\D0256197\090309-XS-PW-NORTH.DWG PLOT DATE : 11/30/2020 3:11 PM PLOT BY : DAN CARY PLOT NAME :

WISDOT/CADDS SHEET 49



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PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	CROSS SECTIONS: PORT WASHINGTON ROAD	SHEET	E

FILE NAME : C:\CADDLIB\PW\HNTB_DCARY\GREATLAKES\D0256197\090309-XS-PW-NORTH.DWG PLOT DATE : 11/30/2020 3:11 PM PLOT BY : DAN CARY PLOT NAME :

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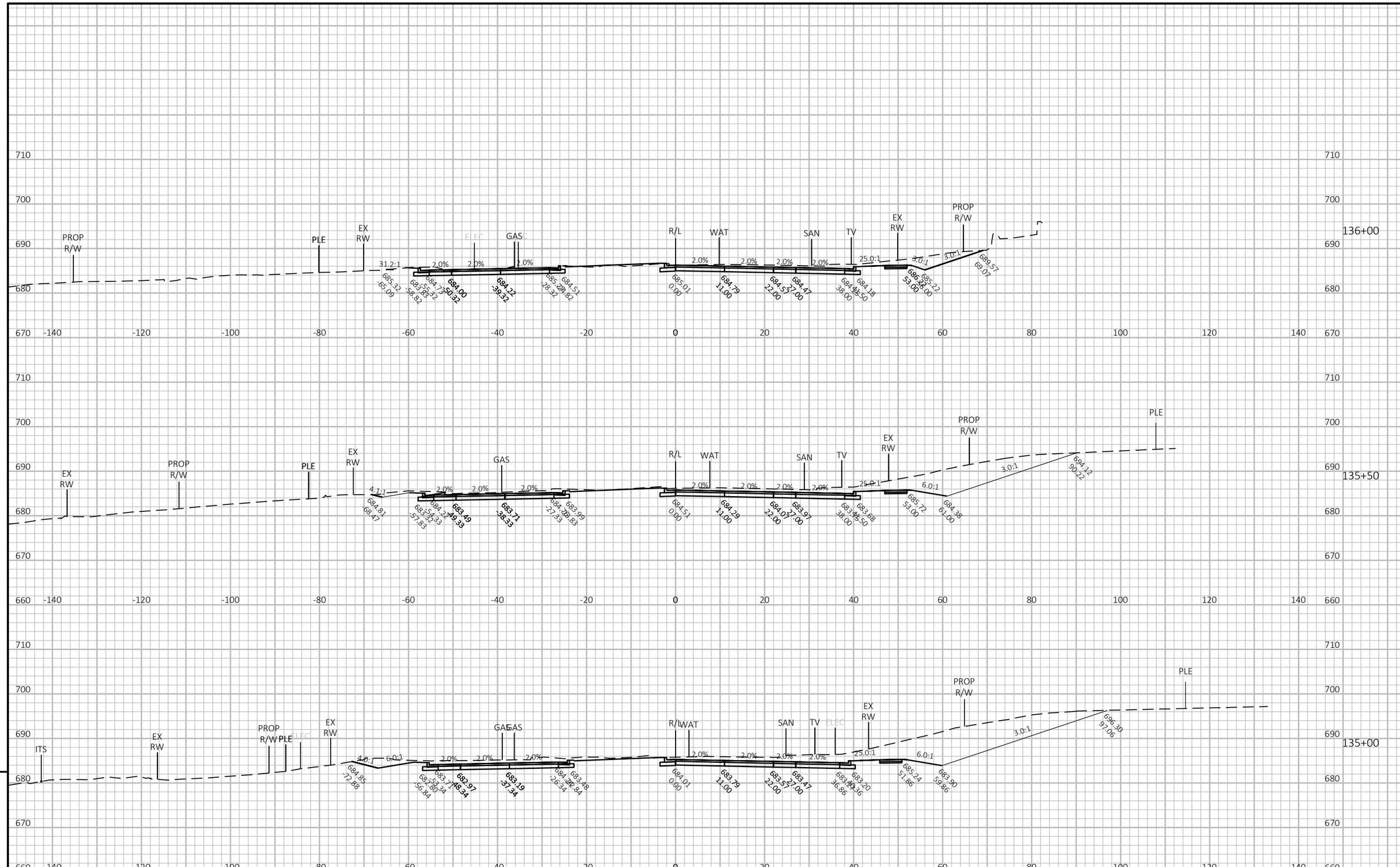

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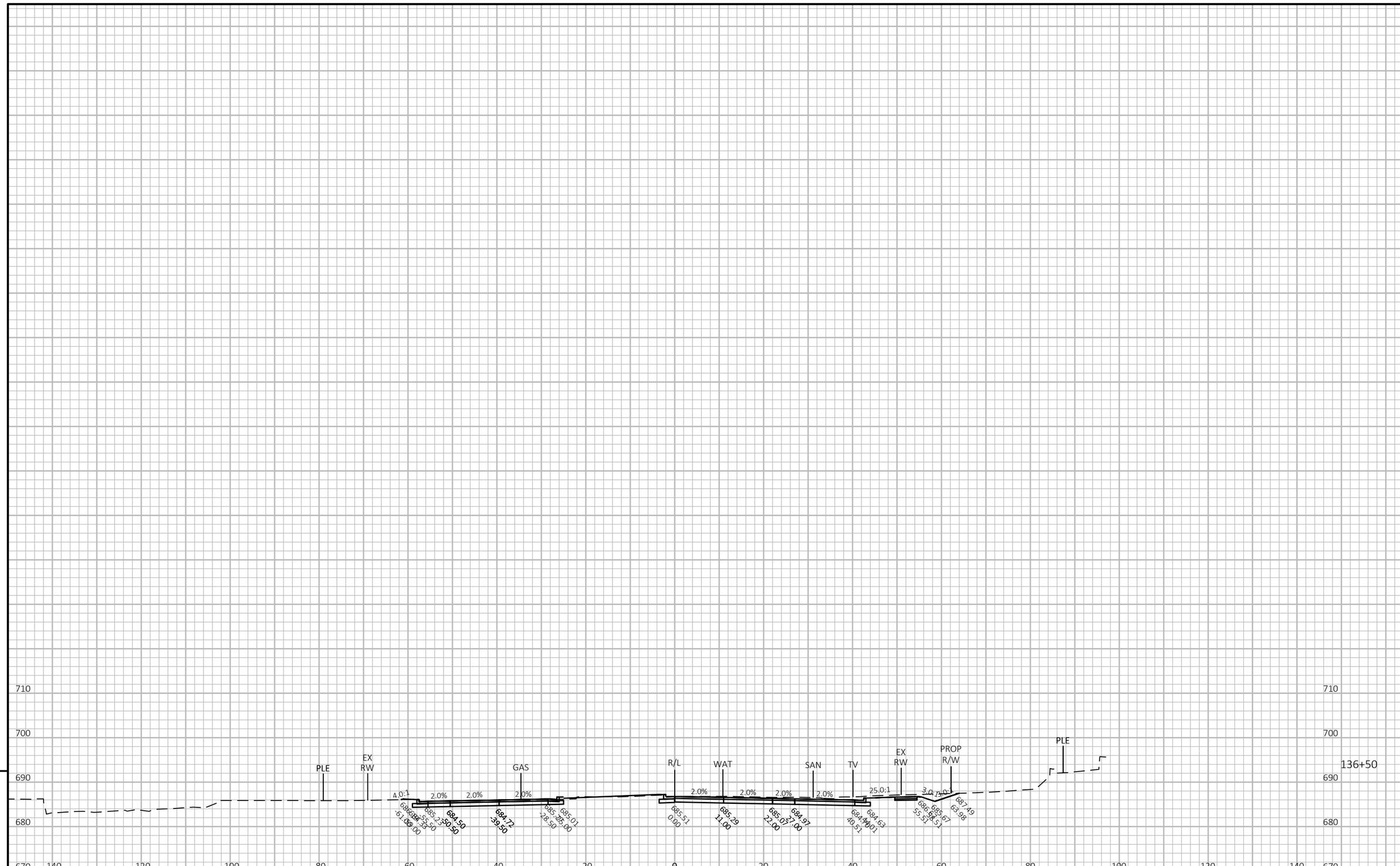
PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	CROSS SECTIONS: PORT WASHINGTON ROAD	SHEET	E

FILE NAME : C:\CADDLIB\PW\HNTB_DCARY\GREATLAKES\D0256197\090309-XS-PW-NORTH.DWG PLOT DATE : 11/30/2020 3:11 PM PLOT BY : DAN CARY PLOT NAME :

WISDOT/CADDS SHEET 49



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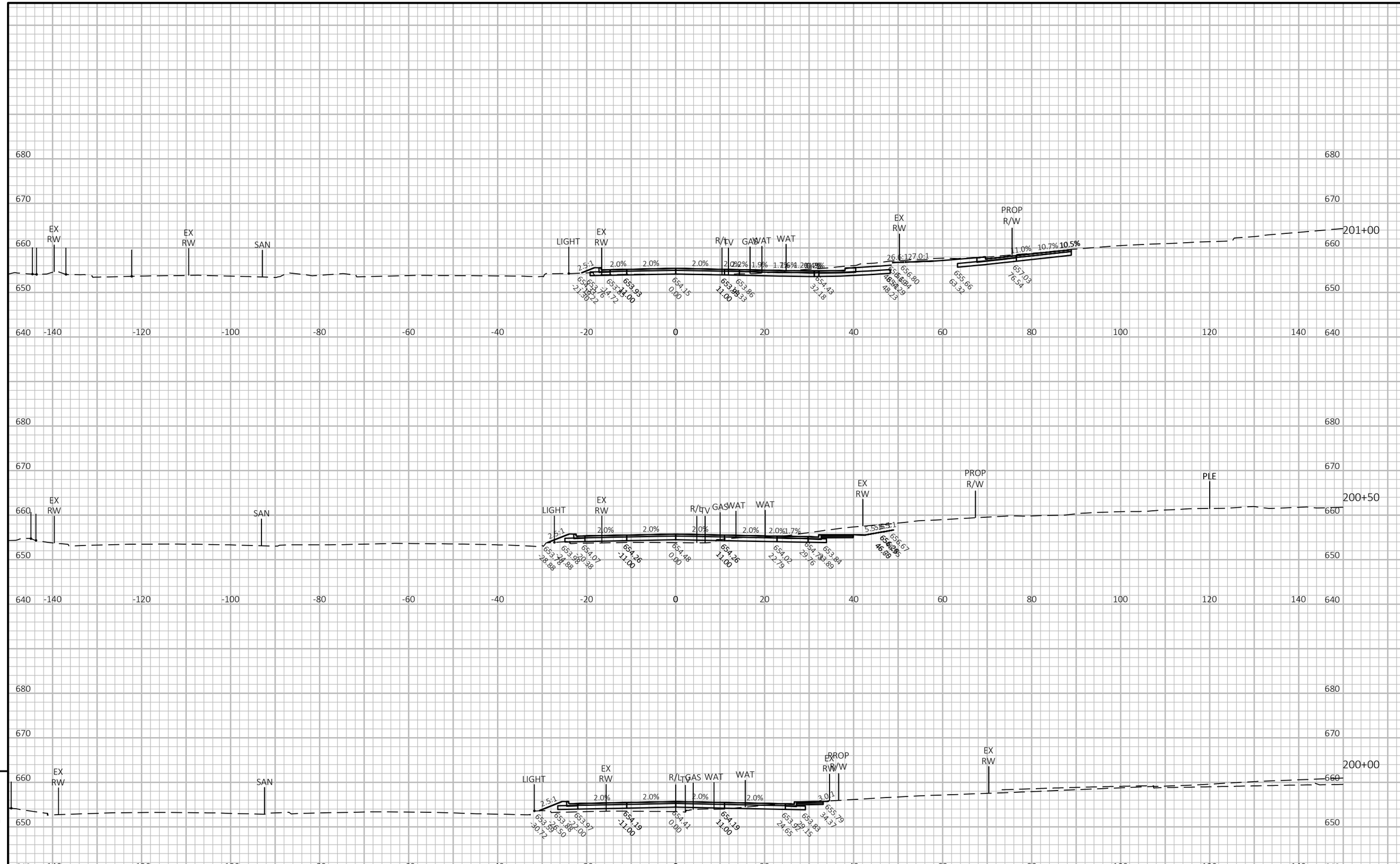
PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	CROSS SECTIONS: PORT WASHINGTON ROAD	SHEET	E



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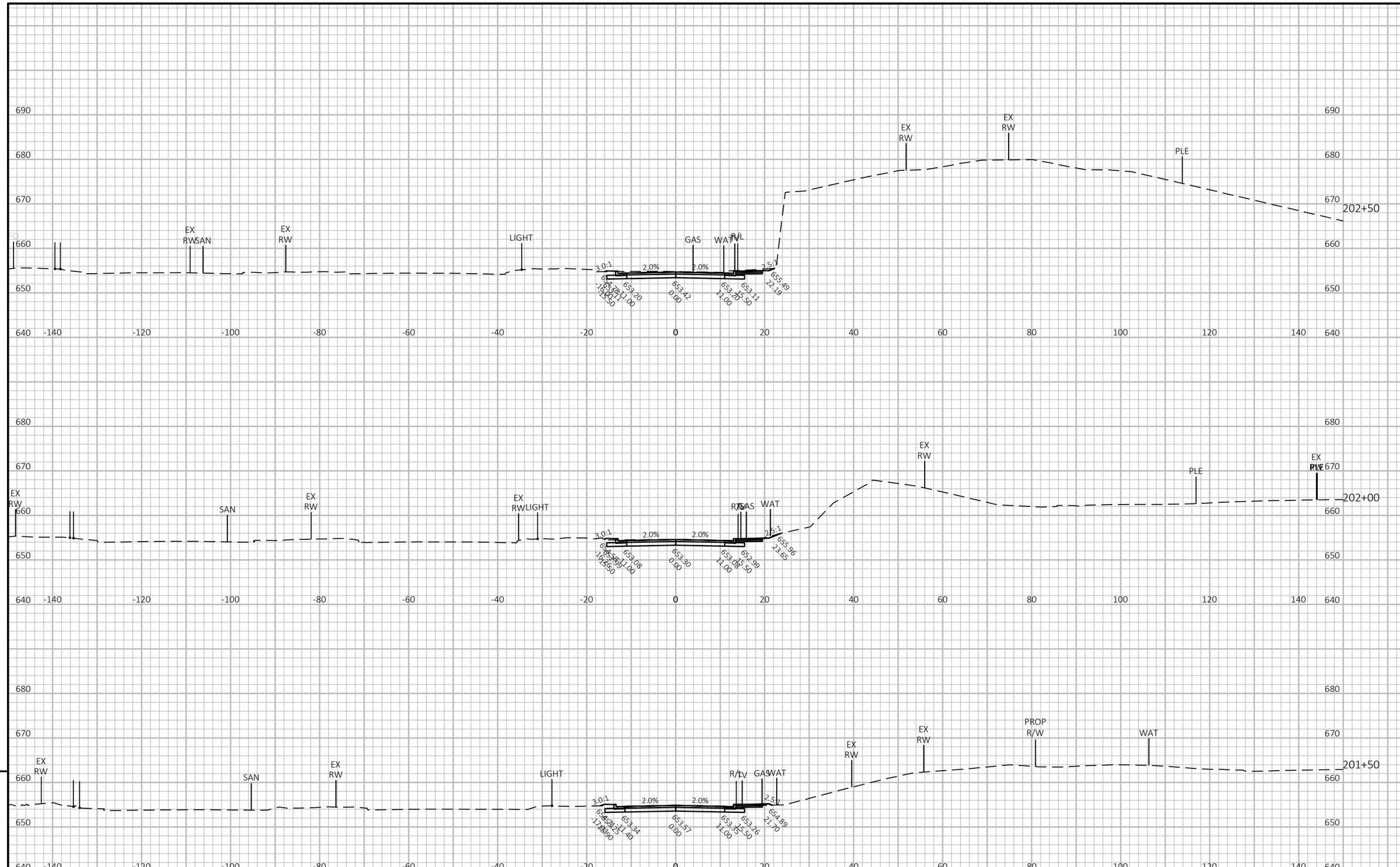
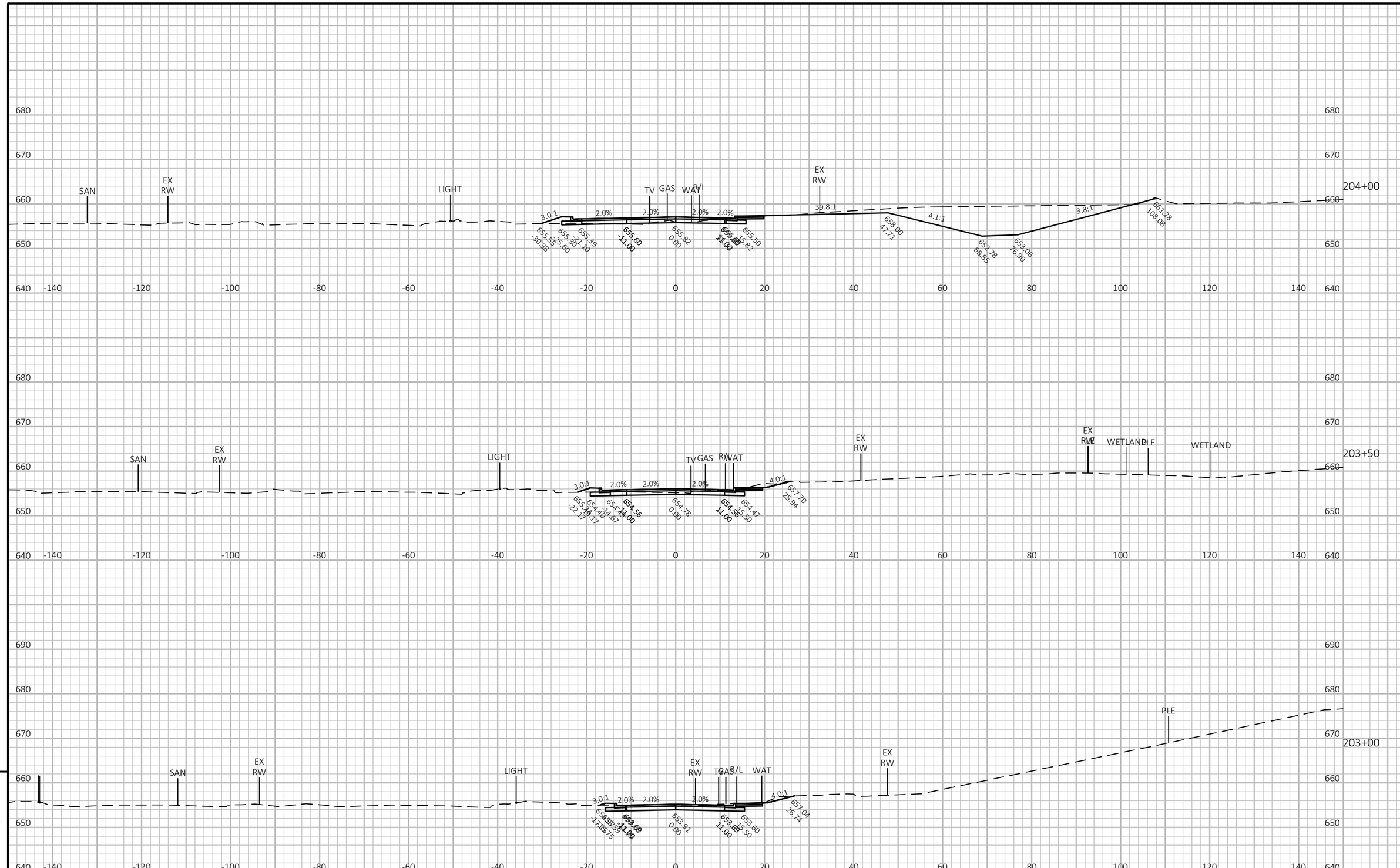
PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	CROSS SECTIONS: PORT WASHINGTON ROAD - TEMPORARY PAVEMENT	SHEET	E

FILE NAME : C:\CADDLIB\PW\HNTB_DCARY\GREATLAKES\D0256197\090309-XS-PN-TEMP.DWG PLOT DATE : 11/30/2020 2:11 PM PLOT BY : DAN CARY PLOT NAME :



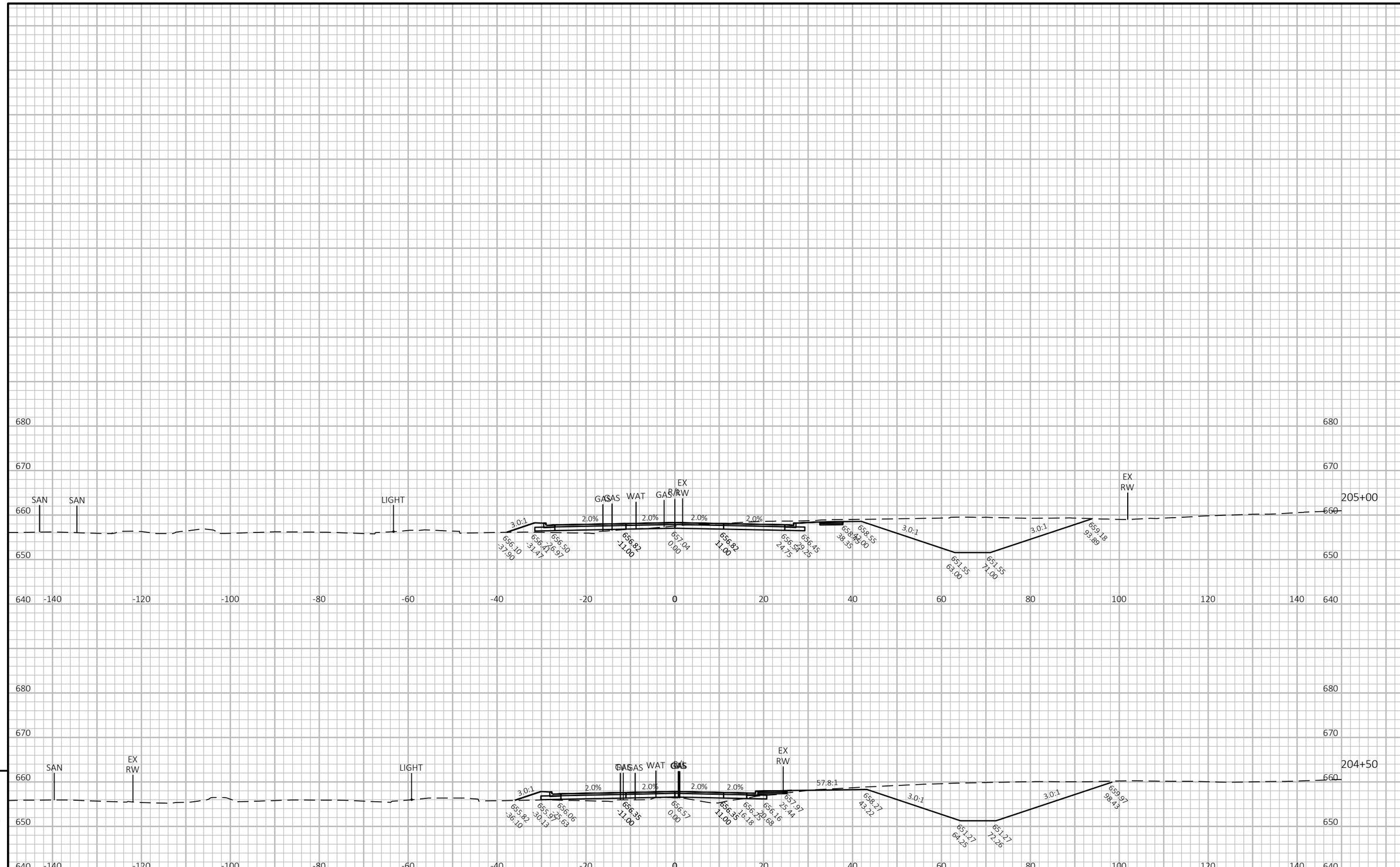
PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	CROSS SECTIONS: PORT WASHINGTON ROAD - TEMPORARY PAVEMENT	SHEET	E

FILE NAME : C:\CADDLIB\PW\HNTB_DCARY\GREATLAKES\D0256197\090309-XS-PN-TEMP.DWG PLOT DATE : 11/30/2020 2:11 PM PLOT BY : DAN CARY PLOT NAME :



PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	CROSS SECTIONS: PORT WASHINGTON ROAD - TEMPORARY PAVEMENT	SHEET	E

FILE NAME : C:\CADDLIB\PW\HNTB_DCARY\GREATLAKES\D0256197\090309-XS-PN-TEMP.DWG PLOT DATE : 11/30/2020 2:11 PM PLOT BY : DAN CARY PLOT NAME :



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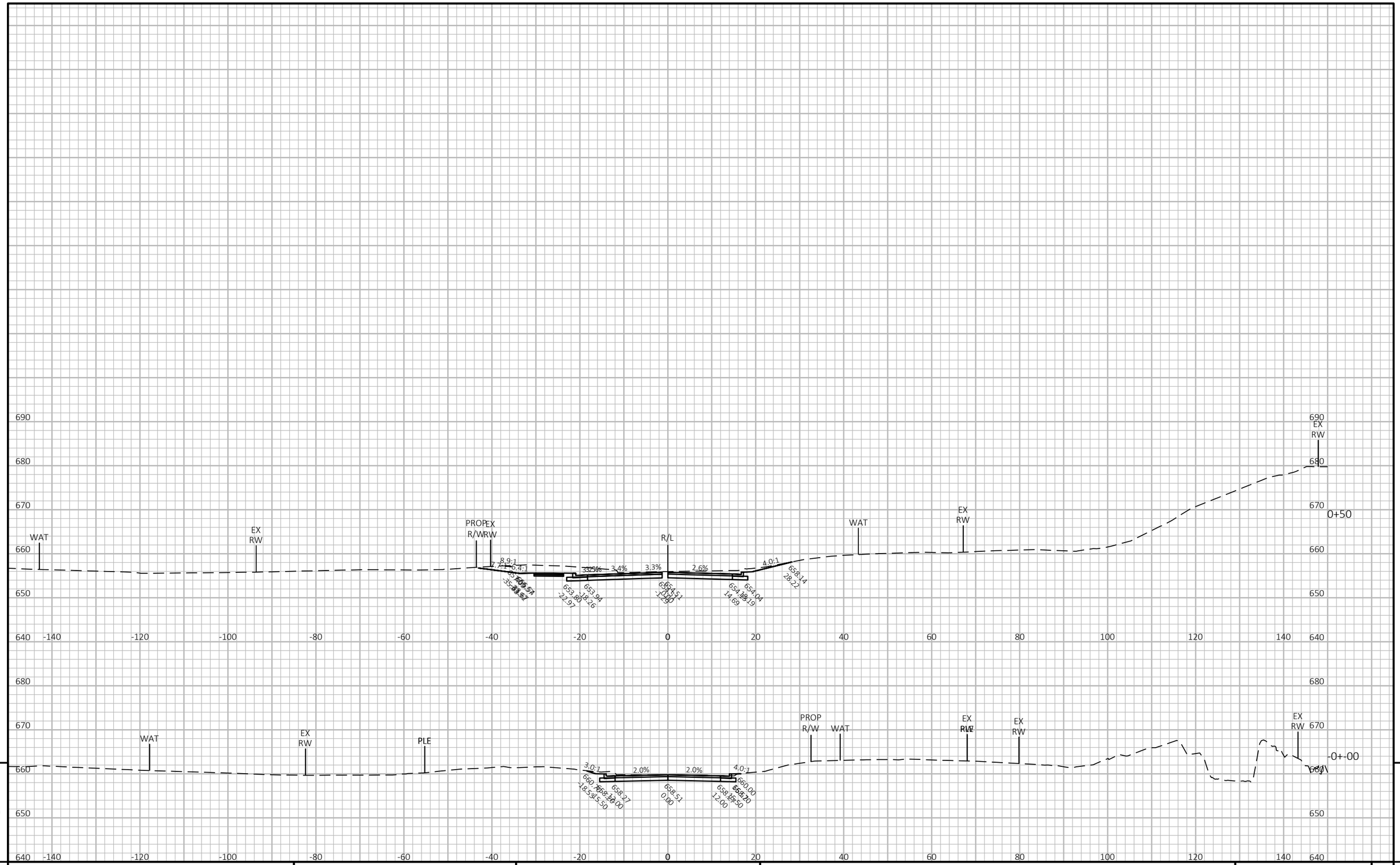
PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	CROSS SECTIONS: PORT WASHINGTON ROAD - TEMPORARY PAVEMENT	SHEET	E

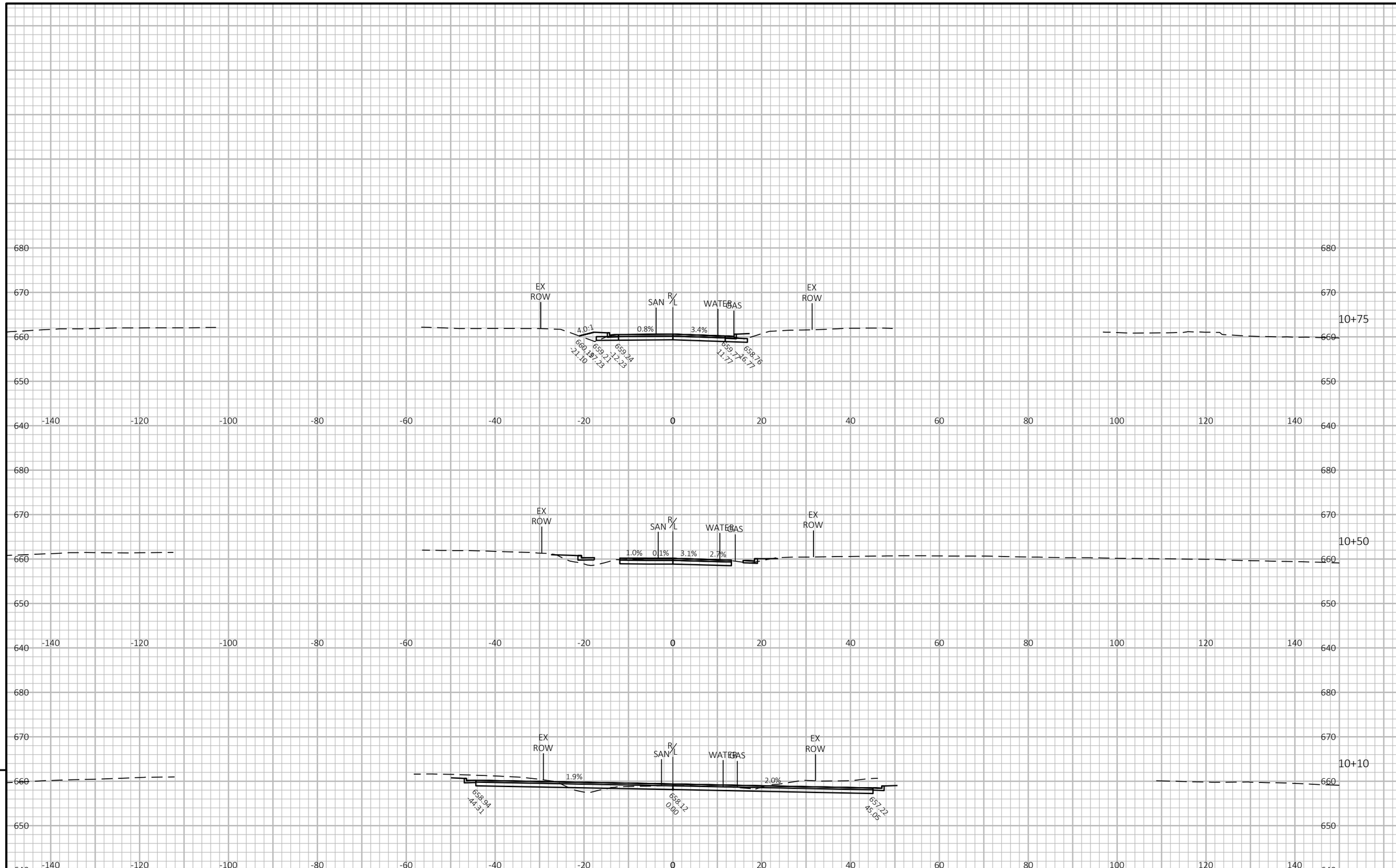
FILE NAME : C:\CADDLIB\PW\HNTB_DCARY\GREATLAKES\D0256197\090309-XS-PN-TEMP.DWG PLOT DATE : 11/30/2020 2:11 PM PLOT BY : DAN CARY PLOT NAME :

WISDOT/CADDS SHEET 49



PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE	CROSS SECTIONS: KARL CAMPUS DRIVE - TEMPORARY PAVEMENT	SHEET	E

FILE NAME : C:\CADDLIB\PW\HNTB_DCARY\GREATLAKES\D0256197\090309-XS-PN-TEMP.DWG PLOT DATE : 11/30/2020 2:13 PM PLOT BY : DAN CARY PLOT NAME :



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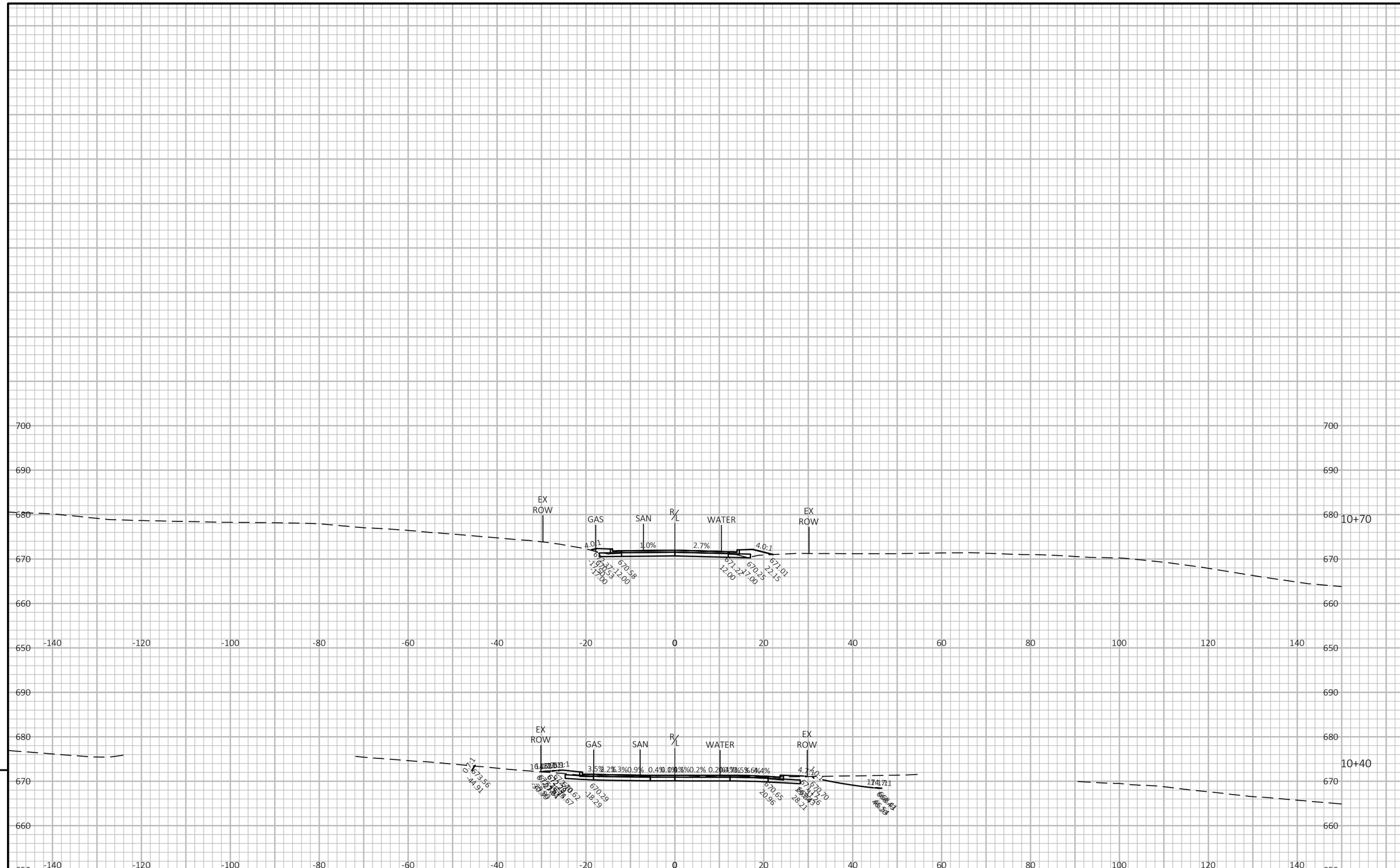
PROJECT NO: 1229-04-71	HWY: N PORT WASHINGTON RD	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: BRENTWOOD LANE	SHEET	E

FILE NAME : C:\CADDLIB\PW\HNTB_ARETRUM\GREATLAKES\D0256197\090320-XS-CROSSROADS.DWG PLOT DATE : 11/25/2020 11:49 AM PLOT BY : AMELIA RETRUM PLOT NAME :

WISDOT/CADDS SHEET 49



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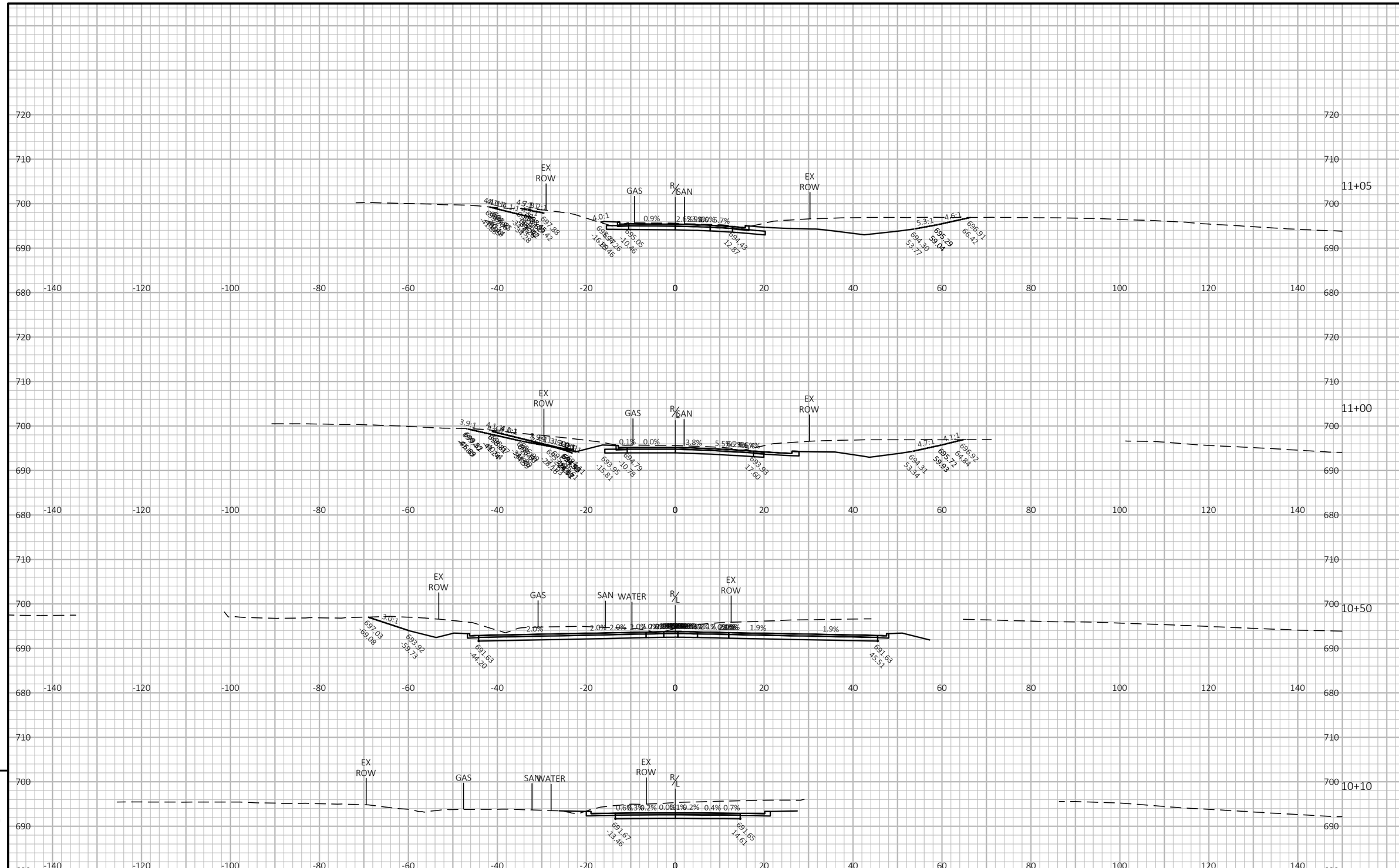
PROJECT NO: 1229-04-71	HWY: I 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: CLOVERNOOK LANE	SHEET	E

FILE NAME : C:\CADDLIB\PW\HNTB_ARETRUM\GREATLAKES\D0256197\090320-XS-CROSSROADS.DWG PLOT DATE : 11/25/2020 11:49 AM PLOT BY : AMELIA RETRUM PLOT NAME :

WISDOT/CADDS SHEET 49



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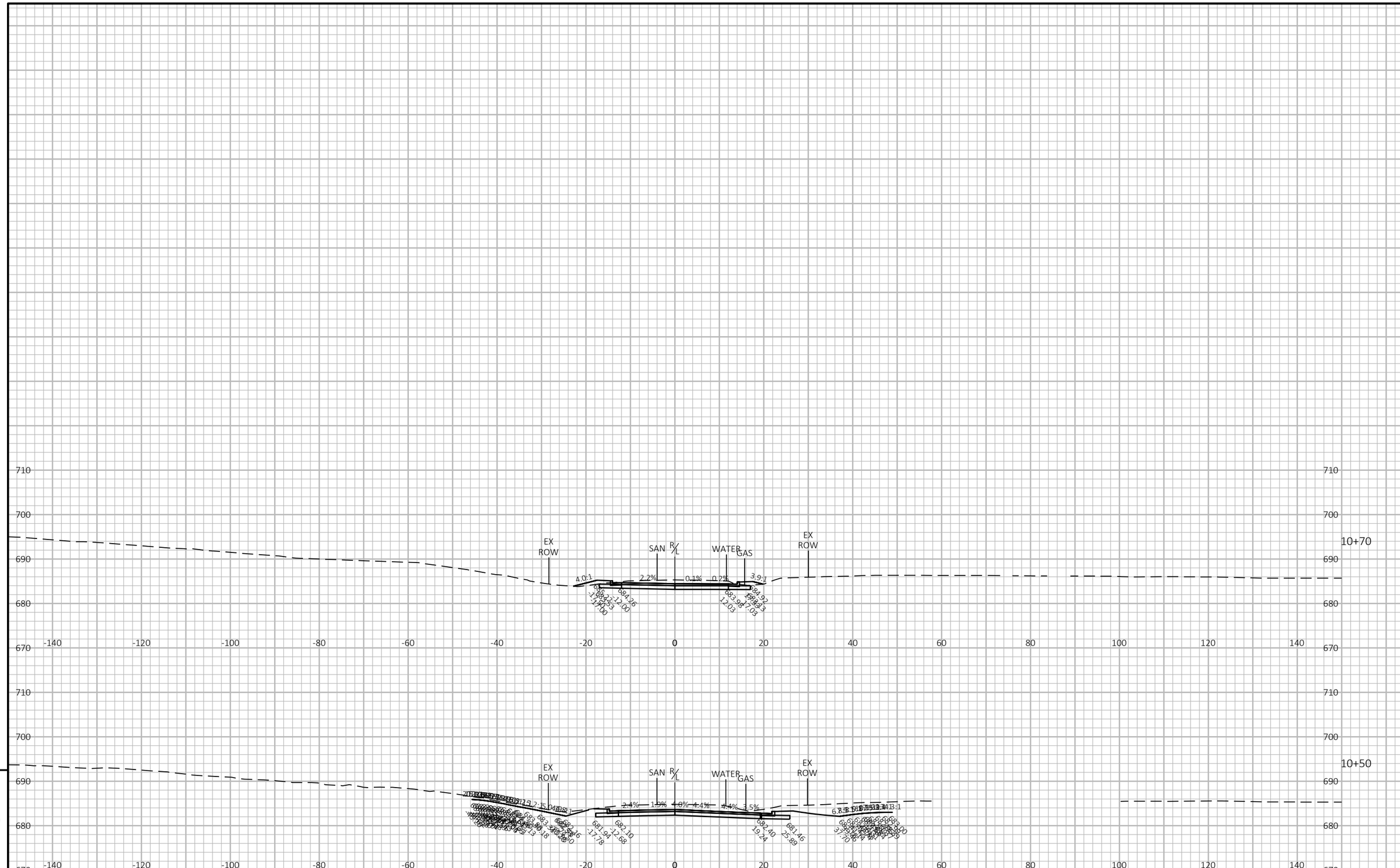
PROJECT NO: 1229-04-71	HWY: I 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: APPLETREE ROAD	SHEET	E

FILE NAME : C:\CADDLIB\PW\HNTB_ARETRUM\GREATLAKES\D0256197\090320-XS-CROSSROADS.DWG PLOT DATE : 11/25/2020 11:50 AM PLOT BY : AMELIA RETRUM PLOT NAME :

WISDOT/CADDS SHEET 49



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PROJECT NO: 1229-04-71	HWY: I 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: DAPHNE ROAD	SHEET	E

FILE NAME : C:\CADDLIB\PW\HNTB_ARETRUM\GREATLAKES\D0256197\090320-XS-CROSSROADS.DWG PLOT DATE : 11/25/2020 11:50 AM PLOT BY : AMELIA RETRUM PLOT NAME :

WISDOT/CADDS SHEET 49