

FOND DU LAC, CITY OF MILWAUKEE

107TH ST. BRIDGE

MILWAUKEE COUNTY

DESIGN STUDY REVIEW
2/22/2021

TOTAL SHEETS =

CONVENTIONAL SYMBOLS

PROFILE
 GRADE LINE
 ORIGINAL GROUND
 MARSH OR ROCK PROFILE
 (To be noted as such)
 SPECIAL DITCH

 GRADE ELEVATION

 CULVERT (Profile View)
UTILITIES
 ELECTRIC
 FIBER OPTIC
 GAS
 SANITARY SEWER
 STORM SEWER
 TELEPHONE
 WATER
 UTILITY PEDESTAL
 POWER POLE
 TELEPHONE POLE

PROFILE

GRADE LINE

ORIGINAL GROUND

MARSH OR ROCK PROFILE
(To be noted as such)

SPECIAL DITCH

GRADE ELEVATION

CULVERT (Profile View)

UTILITIES

ELECTRIC

FIBER OPTIC

GAS

SANITARY SEWER

STORM SEWER

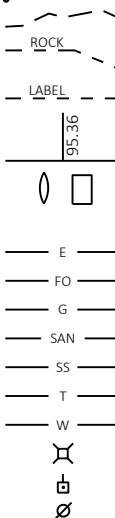
TELEPHONE

WATER

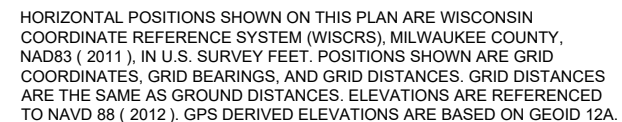
UTILITY PEDESTAL

POWER POLE

TELEPHONE POLE



The legend on the right side of the page defines the symbols used in the profile view. It includes a cross-section of a road with a dashed line for the original ground and a solid line for the grade line. Below this, a dashed line is labeled 'ROCK' and a solid line is labeled 'LABEL'. A vertical line with a horizontal tick at the bottom is labeled '95.36'. A cross-section of a culvert is shown with an oval and a rectangle. Below this, a series of horizontal lines are shown, each with a label: 'E', 'FO', 'G', 'SAN', 'SS', 'T', and 'W'. At the bottom, a symbol for a utility pedestal is shown, followed by a symbol for a power pole and a symbol for a telephone pole.



APPROVED FOR THE DEPARTMENT

DATE: _____ (Signature)

1

GENERAL NOTES

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WIHTIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.
2. THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPALITY OR PUBLIC AGENCY WHICH IS NOT A MEMBER OF DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.
3. ALL ELEVATIONS AND OFFSETS SHOWN IN THE PLAN SHALL BE VERIFIED IN THE FIELD.
4. NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.
5. THE COST OF GRADING, CONSTRUCTING, MAINTAINING, AND REMOVING TEMPORARY ACCESS IS INCIDENTAL TO THE CONTRACT.
6. HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 112 LB/SY-IN
7. THE CONTRACTOR’S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING OR TURNING LANE.

EROSION CONTROL GENERAL NOTES

1. RE-TOPSOIL DISTURBED AREAS, AS DESIGNATED BY THE ENGINEER. SEED AND E-MAT TOP-SOILED AREAS, AS DESIGNATED BY THE ENGINEER, WITHIN FIVE (5) CALENDAR DAYS AFTER PLACEMENT OF TOPSOIL. IF GRADED AREAS ARE LEFT EXPOSED FOR MORE THAN FOURTEEN (14) CALENDAR DAYS, SEED THOSE AREAS WITH TEMPORARY SEED.
2. 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.
3. QUANTITIES FOR EROSION CONTROL ITEMS HAVE BEEN INCLUDED IN THE PROJECT, BUT MAY NOT BE REPRESENTED ON THE PLAN. THE LOCATIONS AND TYPE OF EROSION CONTROL ITEMS WILL BE DETERMINED BY THE CONTRACTOR'S ECIP AND BY THE ENGINEER. EROSION CONTROL ITEMS SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE ITEMS IS NO LONGER REQUIRED.

UTILITIES

COMMUNICATIONS

AT&T WISCONSIN - COMMUNICATION LINE
JAY BULANEK
2005 PEWAUKEE RD
WAUKESHA, WI 53188-2443
PHONE: (262) 896-7669
EMAIL: JB5175@ATT.COM

ELECTRICITY

CITY OF MILWAUKEE - ELECTRICITY
SAMIR AMIN
841 N BROADWAY
MILWAUKEE, WI 53202
PHONE: (414) 286-3301
EMAIL: SAMIN@MILWAUKEE.GOV

SEWER

CITY OF MILWAUKEE - SEWER
SAMIR AMIN
841 N BROADWAY
MILWAUKEE, WI 53202
PHONE: (414) 286-3301
EMAIL: SAMIN@MILWAUKEE.GOV

WATER

CITY OF MILWAUKEE - WATER
SAMIR AMIN
841 N BROADWAY
MILWAUKEE, WI 53202
PHONE: (414) 286-3301
EMAIL: SAMIN@MILWAUKEE.GOV

COMMUNICATIONS

EVERSTREAM
TBD
324 E Wisconsin Ave, Suite 730
Milwaukee, WI 53202
PHONE: (414) 409 - 1709
EMAIL: WI-Relocations@everstream.net

COMMUNICATIONS

LEVEL 3
TBD
1025 Eldorado Blvd
Broomfield, CO 80021
PHONE:
EMAIL: relocations@lumen.com

COMMUNICATIONS

MIDWEST FIBER NETWORKS
Richard Trgovec
6070 North Flint Rd
Glendale, WI 53209
PHONE: (414) 459 - 3554
EMAIL: rtrgovec@midwestfibernetworks.com

COMMUNICATIONS

SPECTRUM
BEAU ABUYA
1320 N DR MARTIN LUTHER KIND JR DR
MILWAUKEE, WI 53212
PHONE: (414) 908-1343
EMAIL: WIS.ENGINEERING@CHARTER.COM

COMMUNICATIONS

VERIZON BUSINESS
RJ Cicatello Jr.
15725 West Ryerson Road
New Berlin, WI 53151
PHONE: (262) 782 - 9836
EMAIL: randy.cicatello@verizon.com

COMMUNICATIONS

WISDOT - ATR
Chad Bigler
3633 Pierstorff St
Madison, WI 53704
PHONE: (608) 535-7413
EMAIL: Chad.Bigler@dot.wi.gov

COMMUNICATIONS

WISDOT - COMMUNICATIONS
Jeff Madson
433 W. St. Paul Ave.
Milwaukee, WI 53203 -3007
PHONE: (414) 225 - 3723
EMAIL: Jeffrey.Madson@dot.wi.gov

ELECTRICITY

WISDOT - STREET LIGHTING
ERIC PEREA
141 NW BARSTOW STREET
WAUKESHA, WI 53188
PHONE: (262) 574-5422
ERICPEREA@DOT.WI.GOV

	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANCE (PERCENT)			SLOPE RANCE (PERCENT)			SLOPE RANCE (PERCENT)			SLOPE RANCE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	0.08 0.22	0.16 0.30	0.22 0.38	0.12 0.26	0.20 0.34	0.27 0.44	0.15 0.30	0.24 0.37	0.33 0.50	0.19 0.34	0.28 0.41	0.38 0.56
MEDIAN STRIP TURF	0.19 0.24	0.20 0.26	0.24 0.30	0.19 0.25	0.22 0.28	0.26 0.33	0.20 0.26	0.23 0.30	0.30 0.37	0.20 0.27	0.25 0.32	0.30 0.40
SIDE SLOPE TURF	0.25 0.34	0.27 0.36	0.25 0.32	0.30		0.27 0.34			0.28 0.36			0.30 0.38
PAVEMENT:												
ASPHALT	0.70 - 0.95											
CONCRETE	0.80 - 0.95											
BRICK	0.70 -0.80											
DRIVES, WALKS	0.75 - 0.85											
ROOFS	0.75 - 0.95											
GRAVEL ROADS, SHOULDERS	0.40 - 0.60											

TOTAL PROJECT AREA = x.xx ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = X.XX ACRES

DIGGERSHOTLINE

Dial 811 or (800)242-8511

www.DiggersHotline.com

WISDOT CONTACT

Southeast Region
Vida Shaffer
141 NW BARSTOW ST
WAUKESHA, WI 53188
PHONE: (414) 333-9116
EMAIL: VIDA.SHAFFER@dot.wi.gov

OTHER AGENCIES

DESIGN CONTACT

Alfred Benesch & Co
Bill Zippel
1300 W Canal St, Suite 150
Milwaukee, WI 53233
PHONE: (414) 308-1310
wzippe1@benesch.com

DNR CONTACT

DNR - Southeast Region
Kristina Betzold
2300 N Martin Luther King Jr Dr
Milwaukee, WI 53212
PHONE: (414) 507-4946
EMAIL: kristina.betzold@wisconsin.gov

SIGNALS

WISDOT - SIGNALS
DERRIN WOLFORD
141 NW BARSTOW STREET
WAUKESHA, WI 53188
PHONE: (262) 521-4409
derrin.wolford@dot.wi.gov

ELECTRICITY

WE ENERGIES - ELECTRICITY
WE ENERGIES UTILITY COORDINATOR
500 S 116TH STREET
WEST ALLIS, WI 53214
PHONE: (414) 221-2738
EMAIL: WE-UTILITY-RELOCATIONS@WE-ENERGIES.COM

GAS/PETROLEUM

WE ENERGIES - GAS
WE ENERGIES UTILITY COORDINATOR
500 S 116TH STREET
WEST ALLIS, WI 53214
PHONE: (414) 221-2738
EMAIL: WE-UTILITY-RELOCATIONS@WE-ENERGIES.COM

ORDER OF SECTION 2 SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
REMOVAL PLAN
PLAN DETAILS
STORM SEWER
CURB RAMP DETAILS
PAVEMENT MARKING
TRAFFIC CONTROL
ALIGNMENT PLAN

ABUT
AC
AGG
AADT
ASPH
AVG
ADT
BF
BL
BM
CB
C/L
CC
CE
CONC
CO
CTH
CY
CULV
C&G
DHV
DIA
DD
E
X
EB
ELEC
ELEV
ESALS
EXC
EBS
EXIST
FF
FE
FG
FL
FT
FTMS
HES
CWT

ABUTMENT
ACRE
AGGREGATE
ANNUAL AVERAGE DAILY TRAFFIC
ASPHALT
AVERAGE
AVERAGE DAILY TRAFFIC
BACK FACE
BASE LINE
BENCH MARK
CATCH BASIN
CENTERLINE
CENTER TO CENTER
COMMERCIAL ENTRANCE
CONCRETE
COUNTY
COUNTY TRUNK HIGHWAY
CUBIC YARD
CULVERT
CURB AND GUTTER
DESIGN HOUR VOLUME
DIAMETER
DIRECTIONAL DISTRIBUTION
EAST
EAST GRID COORDINATE
EASTBOUND
ELECTRIC
ELEVATION
EQUIVALENT SINGLE AXLE LOADS
EXCAVATION
EXCAVATION BELOW SUBGRADE
EXISTING
FACE TO FACE
FIELD ENTRANCE
FINISHED GRADE
FLOW LINE
FOOT
FREEWAY TRAFFIC MANAGEMENT SYSTEM
HIGH EARLY STRENGTH
HUNDREDWEIGHT

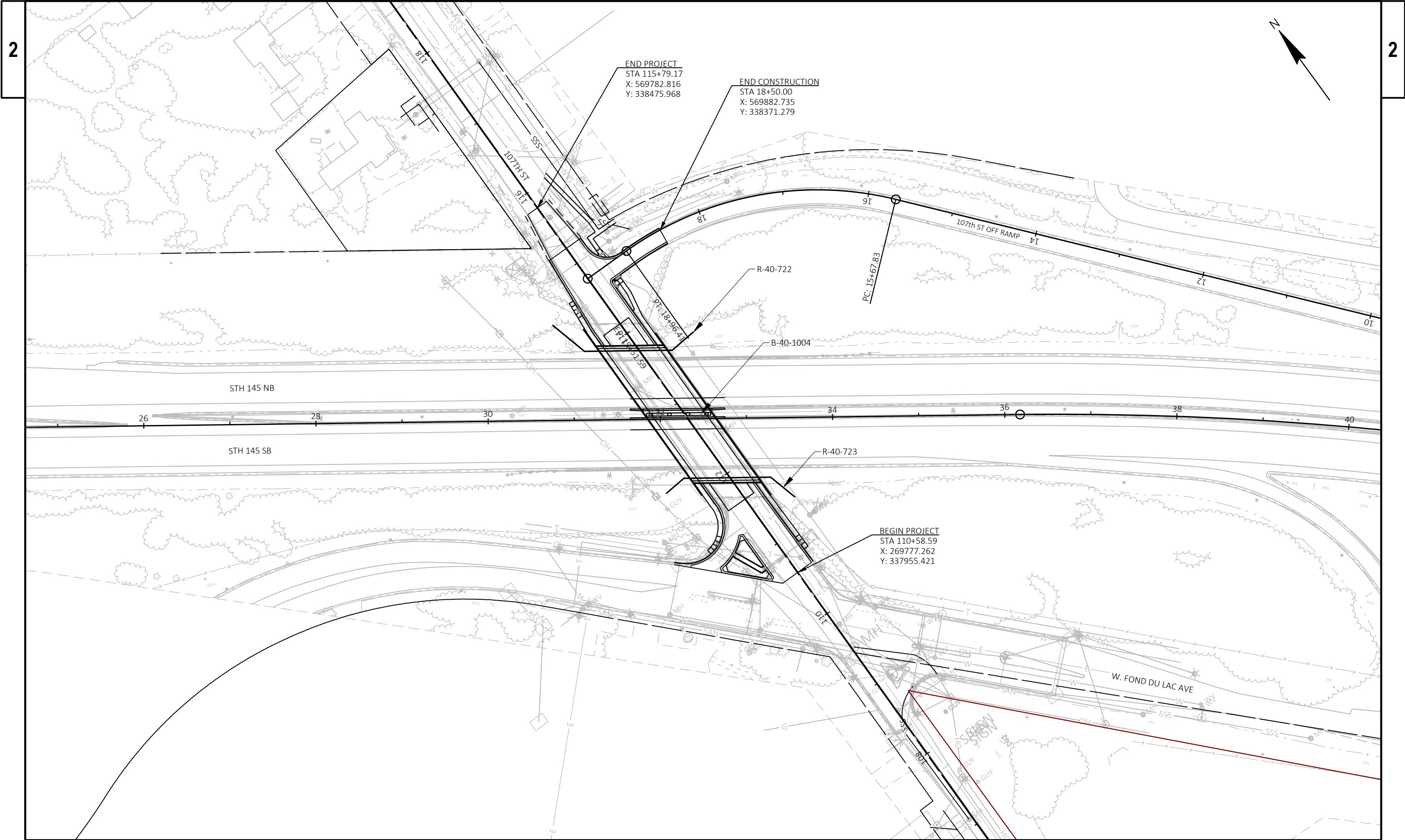
LIST OF STANDARD ABBREVIATIONS

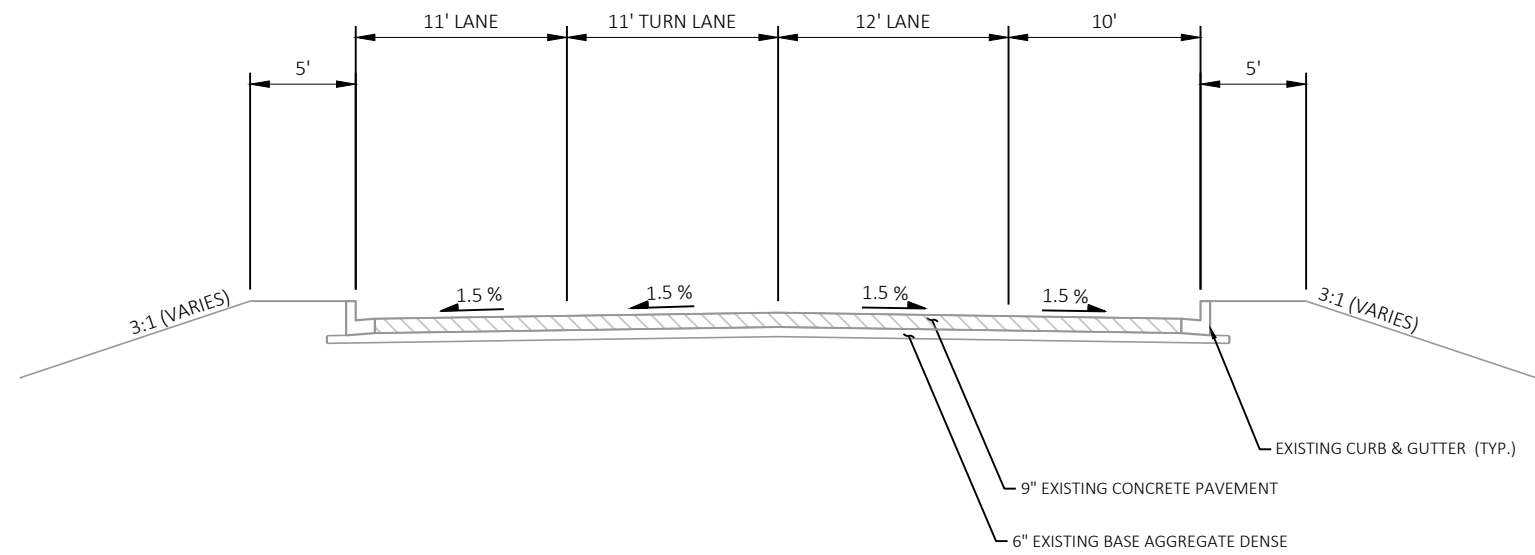
HYD
IN DIANCH
INL
ID
INV
IP
JT
JCT
LT
L
LHF
LF
L
LS
MH
MB
MLB
ML
NC
N
Y
NB
NO
OD
PAVT
PERM
PLE
PT
PVC
PCC
PE
PROJ
PL
R
R/L
RCCP
REQD
RT
RHF
R/W

HYDRANT
DIAMETER
INLET
INSIDE DIAMETER
INVERT
IRON PIPE
JOINT
JUNCTION
LEFT
LENGTH OF CURVE
LEFT-HAND FORWARD
LINEAR FOOT
LITER
LUMP SUM
MANHOLE
MESSAGE BOARD
MAILBOX
MATCH LINE
NORMAL CROWN
NORTH
NORTH GRID COORDINATE
NORTHBOUND
NUMBER
OUTSIDE DIAMETER
PAVEMENT
PERMANENT
PERMANENT LIMITED EASEMENT
POINT
POLYVINYL CHLORIDE
PORTLAND CEMENT CONCRETE
PRIVATE ENTRANCE
PROJECT
PROPERTY LINE
RADIUS
REFERENCE LINE
REINFORCED CONCRETE CULVERT PIPE
REQUIRED
RIGHT
RIGHT HAND FORWARD
RIGHT-OF-WAY

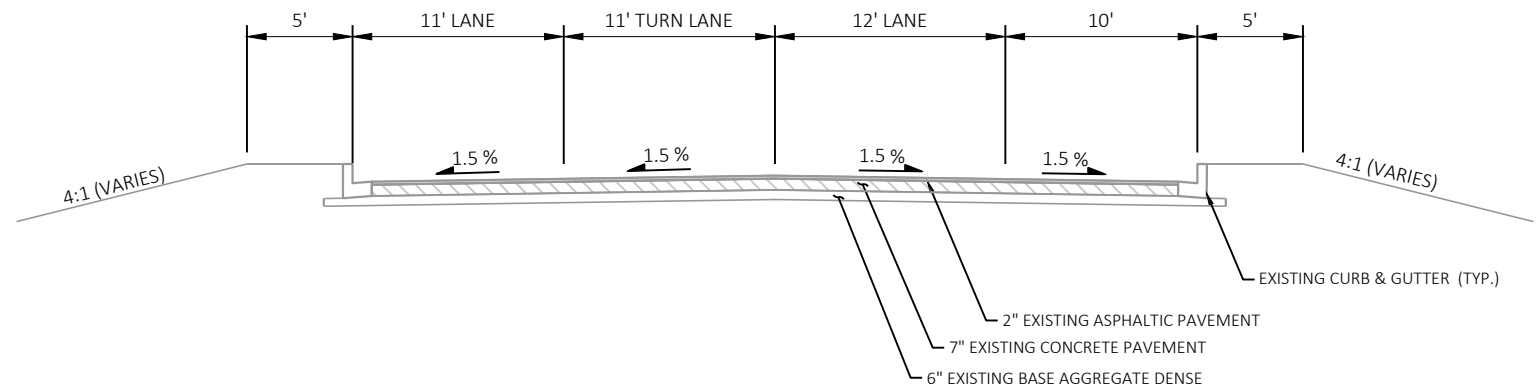
RD
RDWY
SALV
SSS
SAN S
SEC
SHLDR
SW
S
SB
SP
SPECSS
SQ
SF
SY
STD
SDD
STH
STA
SS
STR
SL
TEL
TEMP
TLE
T
TC
T
TYP
UG
USH
VAR
VERT
W
WM
WV
W
WB
YD

ROAD
ROADWAY
SALVAGED
SANITARY AND STORM SEWER
SANITARY SEWER
SECTION
SHOULDER
SIDEWALK
SOUTH
SOUTHBOUND
SPECIAL
SPECIFICATIONS
SQUARE
SQUARE FEET
SQUARE YARD
STANDARD
STANDARD DETAIL DRAWINGS
STATE TRUNK HIGHWAYS
STATION
STORM SEWER
STRUCTURE OR STRUCTURAL
SURVEY LINE
TELEPHONE
TEMPORARY
TEMPORARY LIMITED EASEMENT
TON
TOP OF CURB
TRUCKS (PERCENT OF)
TYPICAL
UNDERGROUND
UNITED STATES HIGHWAY
VARIABLE
VERTICAL
WATER
WATER MAIN
WATER VALVE
WEST
WESTBOUND
YARD

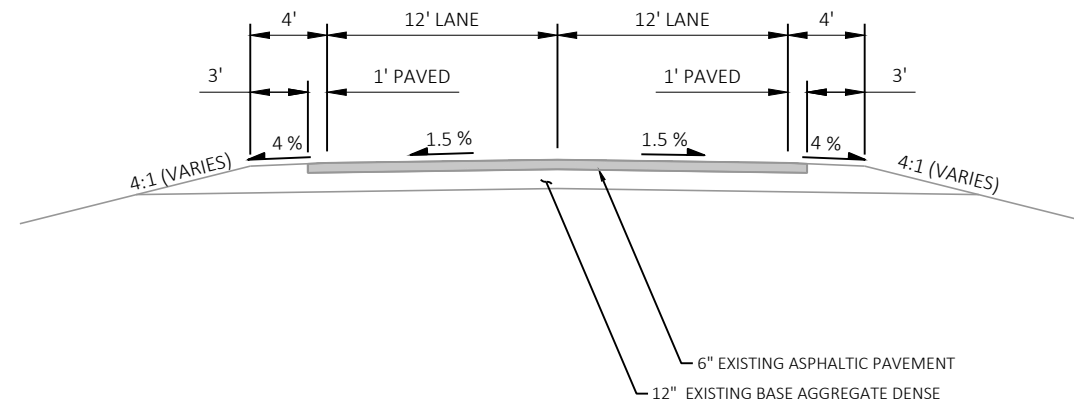




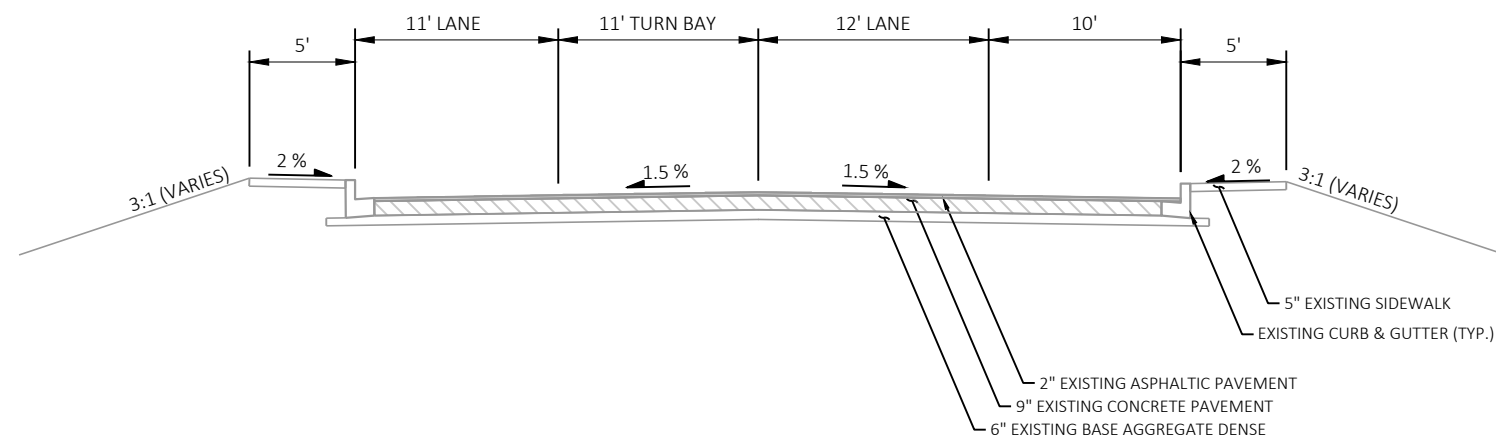
EXISTING TYPICAL SECTION
STA 111+36.24 - 111+65.12



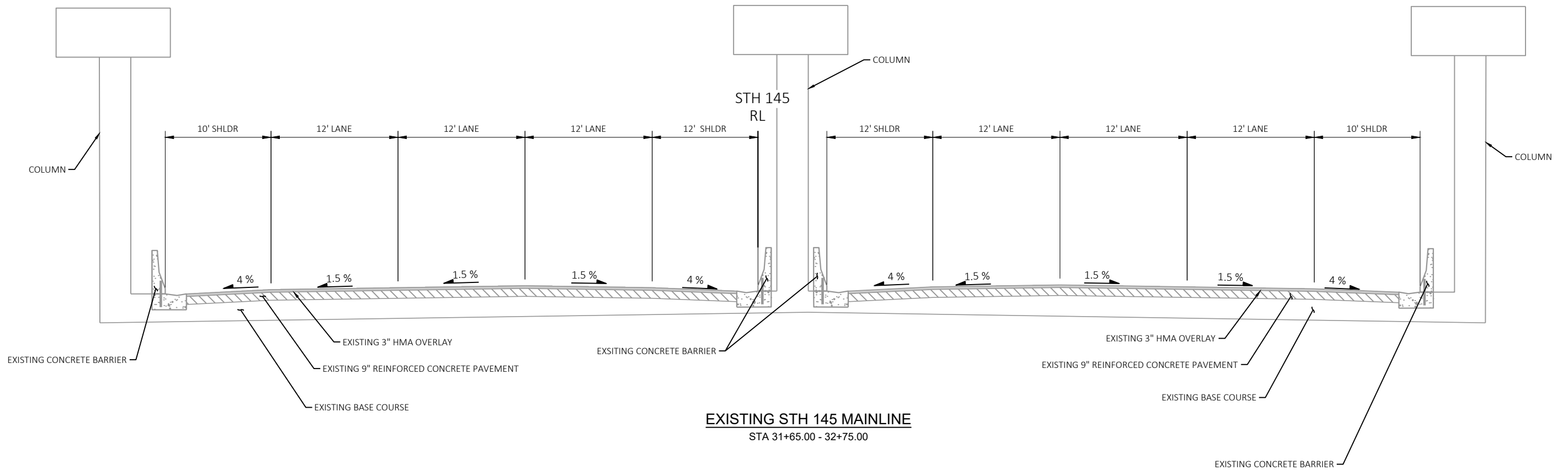
EXISTING TYPICAL SECTION
STA 110+58.59 - 111+36.24

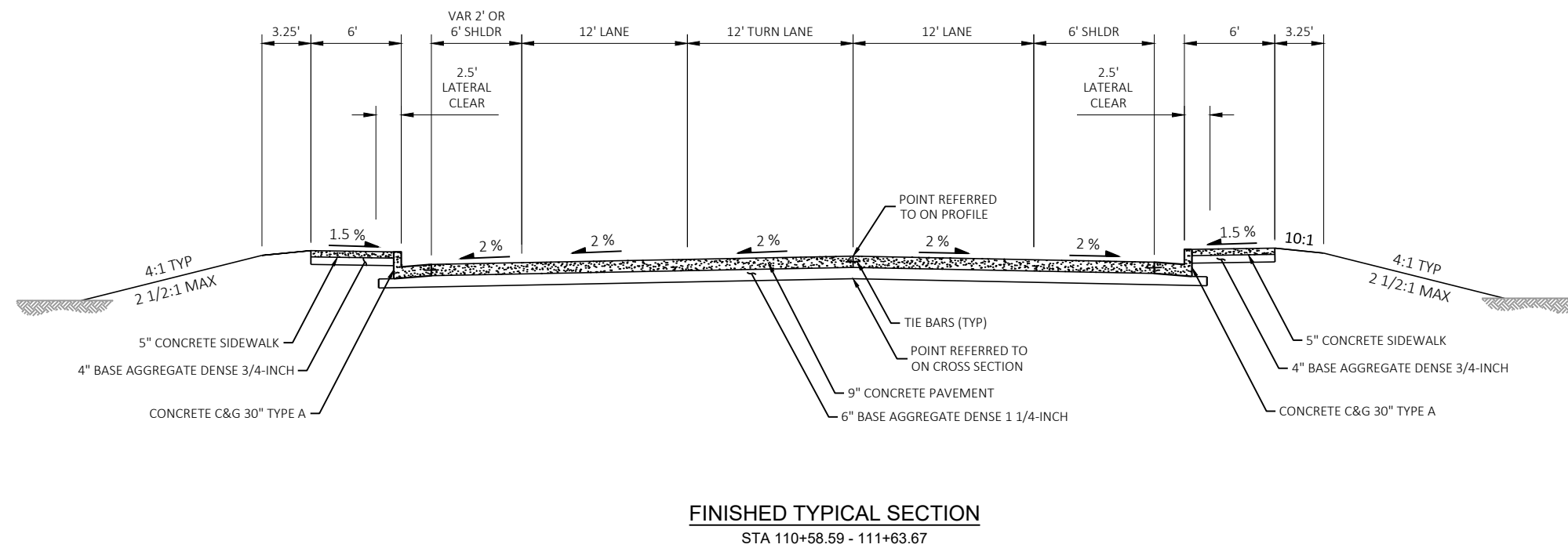
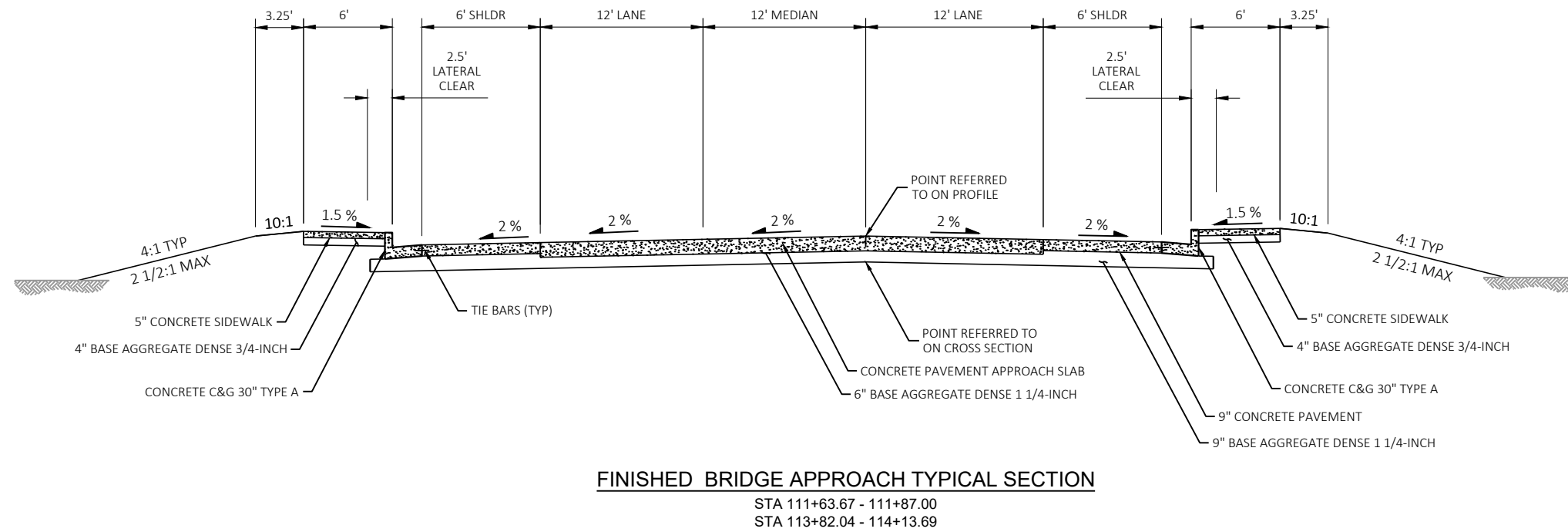


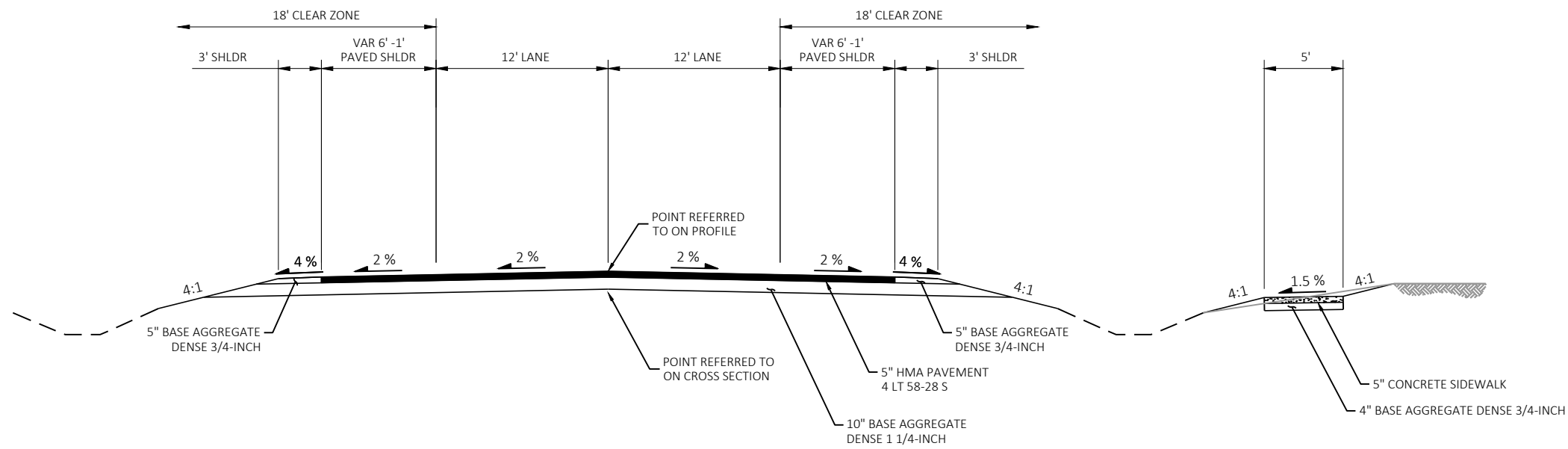
EXISTING TYPICAL SECTION
STA 114+59.36 - 115+79.17



EXISTING TYPICAL SECTION
STA 114+14.50 - 114+59.36

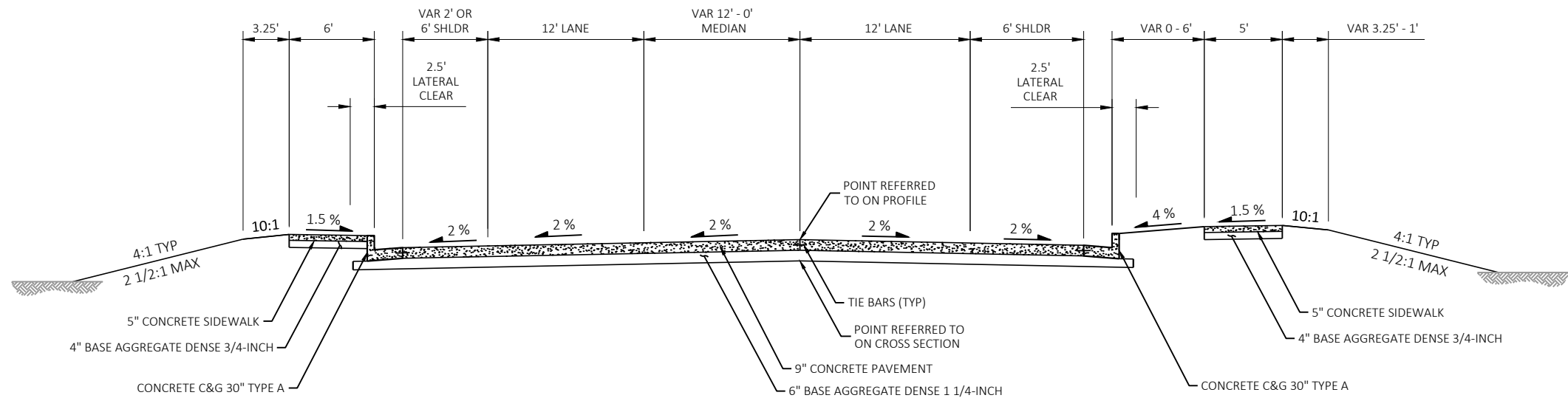




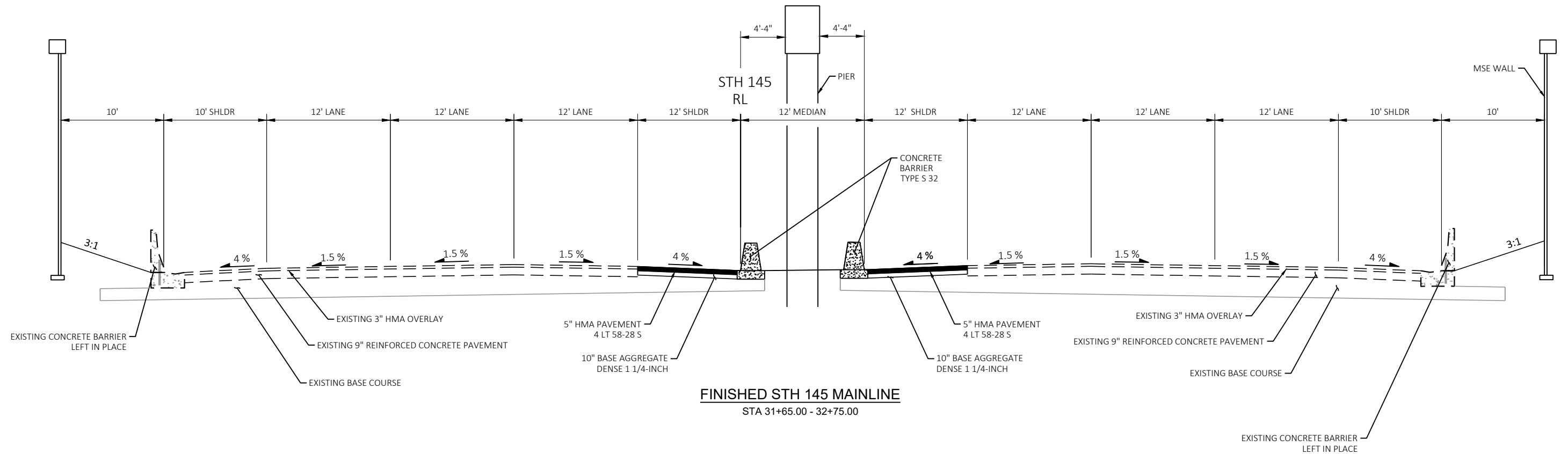


FINISHED TYPICAL SECTION
STA 115+21.32 - 115+79.17

PAVEMENT LOCATION	TOTAL PAVEMENT THICKNESS	LAYER	TYPE
107th ST	5"	1.75" UPPER 3.25" LOWER	4 LT 58-28 S



FINISHED TYPICAL SECTION
STA 114+13.69 - 115+21.32

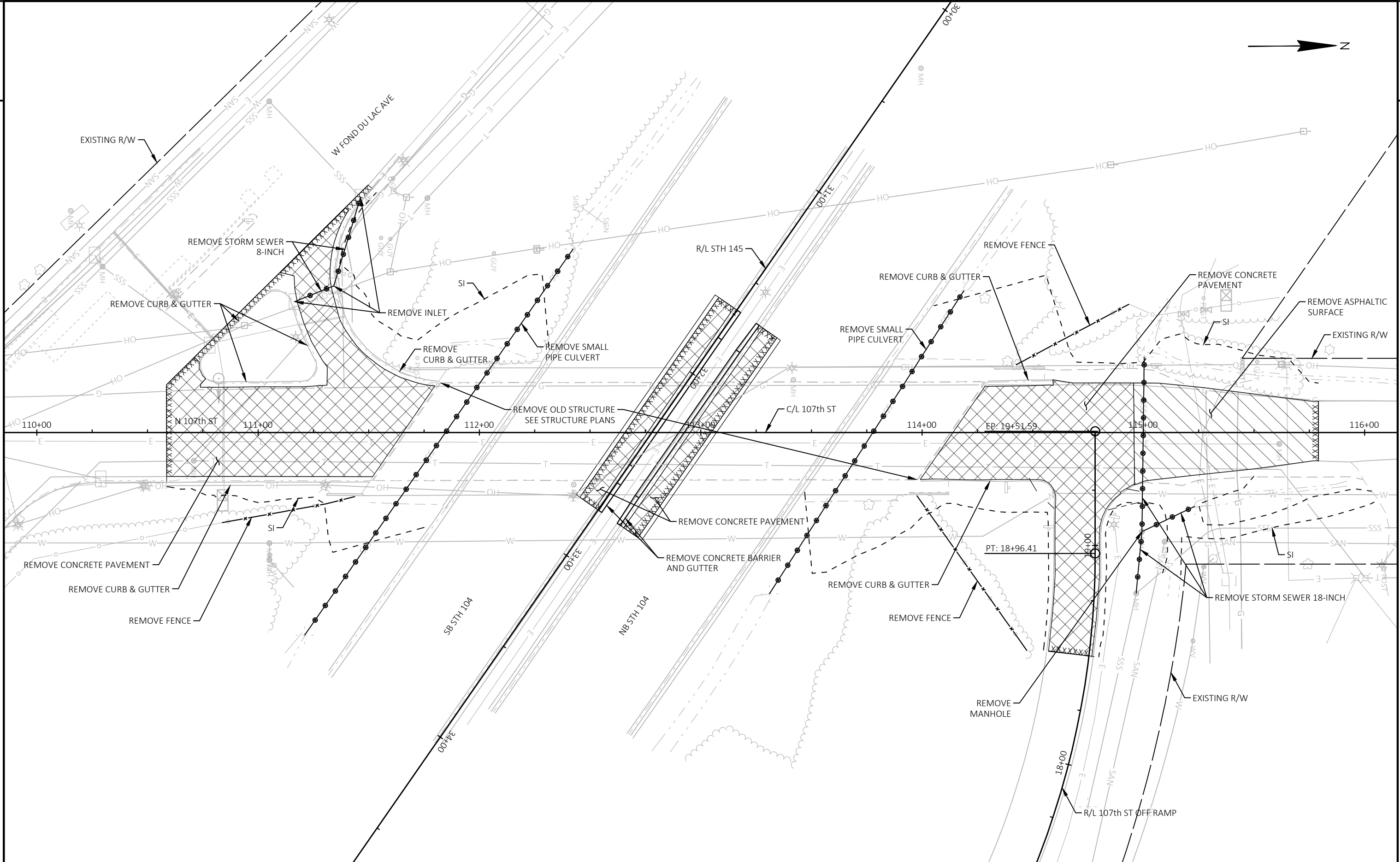


FINISHED STH 145 MAINLINE
STA 31+65.00 - 32+75.00

PAVEMENT LOCATION	TOTAL PAVEMENT THICKNESS	LAYER	TYPE
STH 145 SHOULDERS	5"	1.75" UPPER 3.25" LOWER	4 LT 58-28 S

2

2



PROJECT NO:	1360-12-70
-------------	------------

HWY: STH 145

COUNTY: MILWAUKEE

REMOVAL PLAN

SHEET	10	E
-------	----	---

E

FILE NAME : Y:\MILWAUKEE\202005\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601200\021051_CD.DWG
LAYOUT NAME - 01

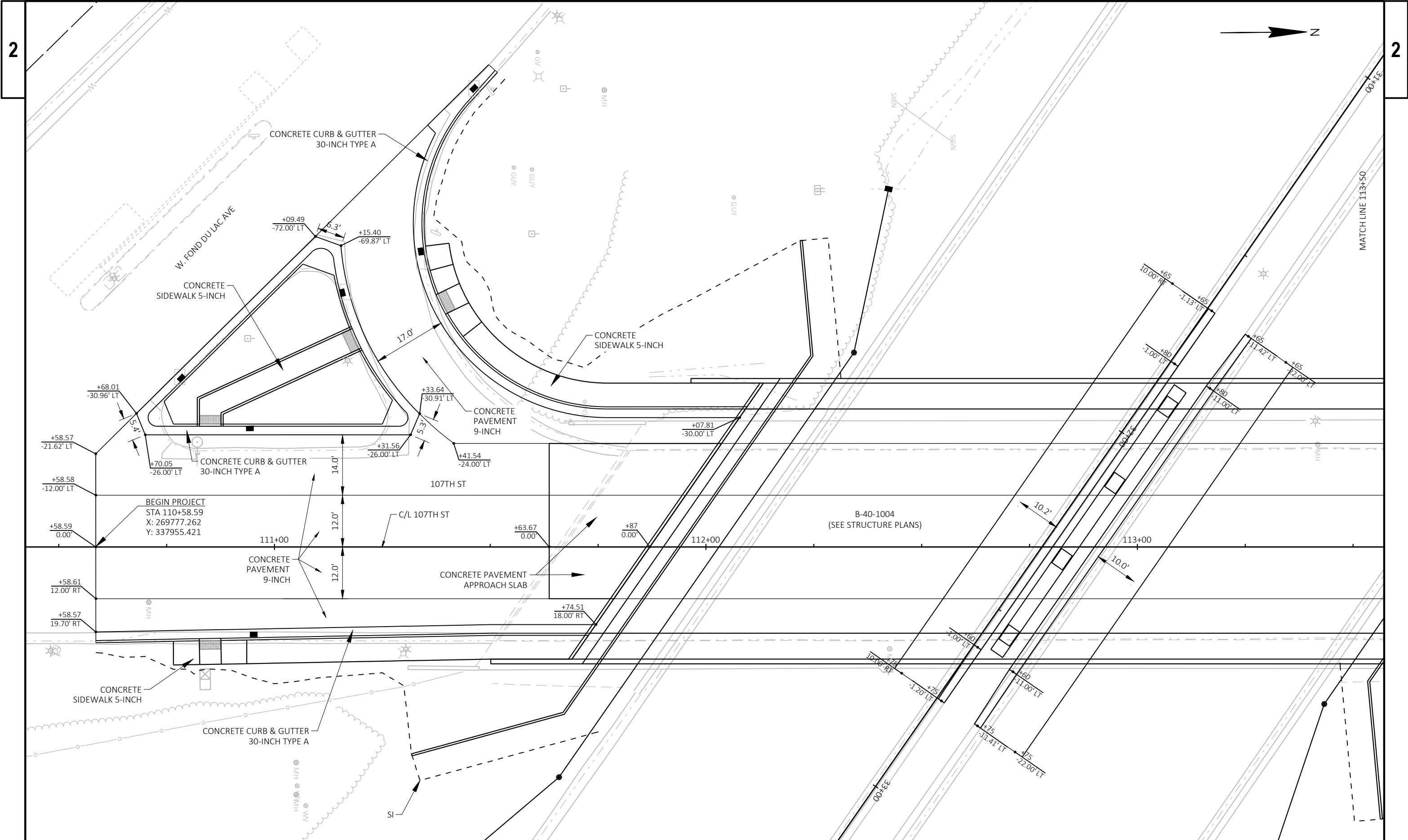
PLOT DATE : 2/18/2021 9:27 AM

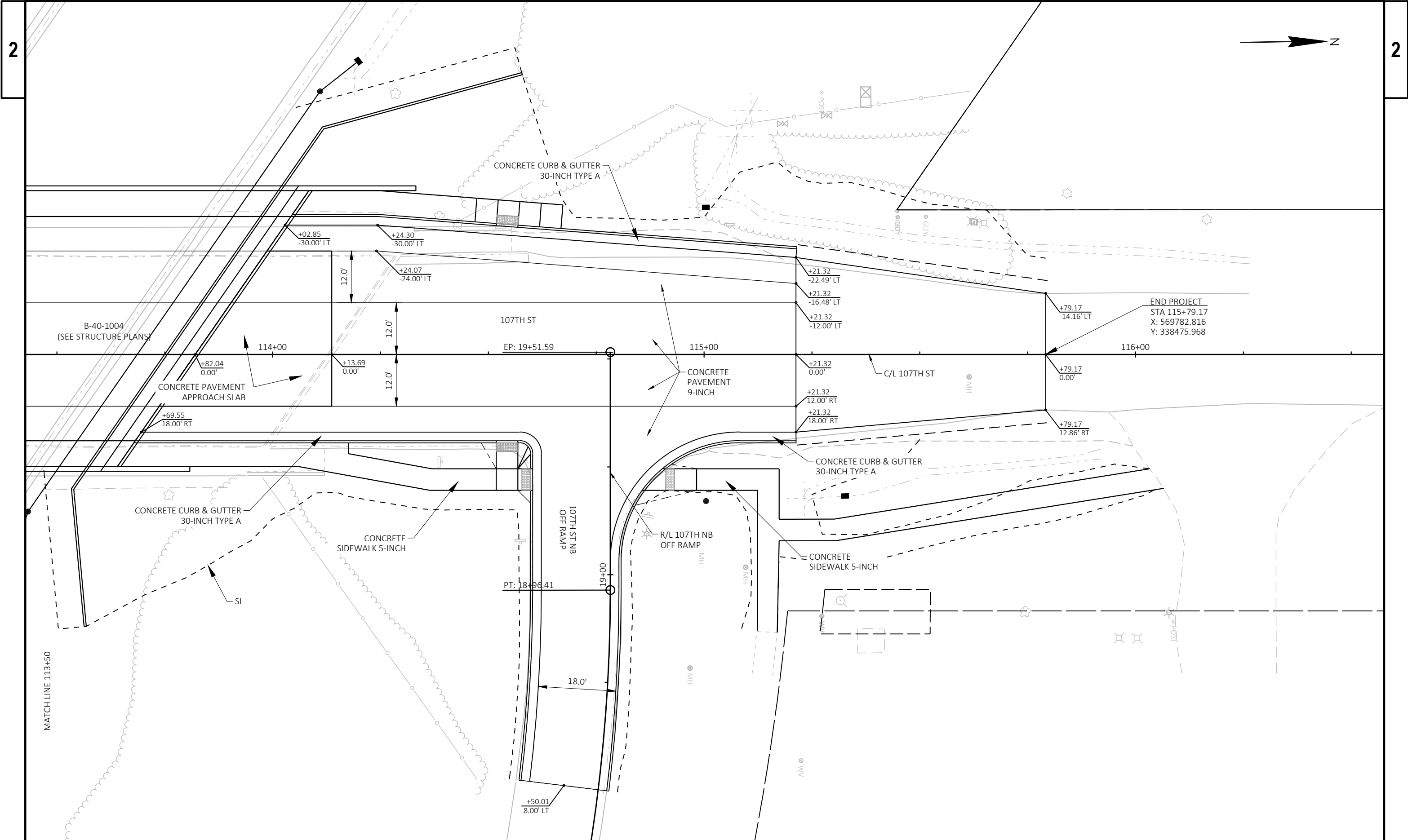
PLOT BY : WEIGAND, BEN

PLOT NAME : PLOT SCALE : 1 IN:40 FT

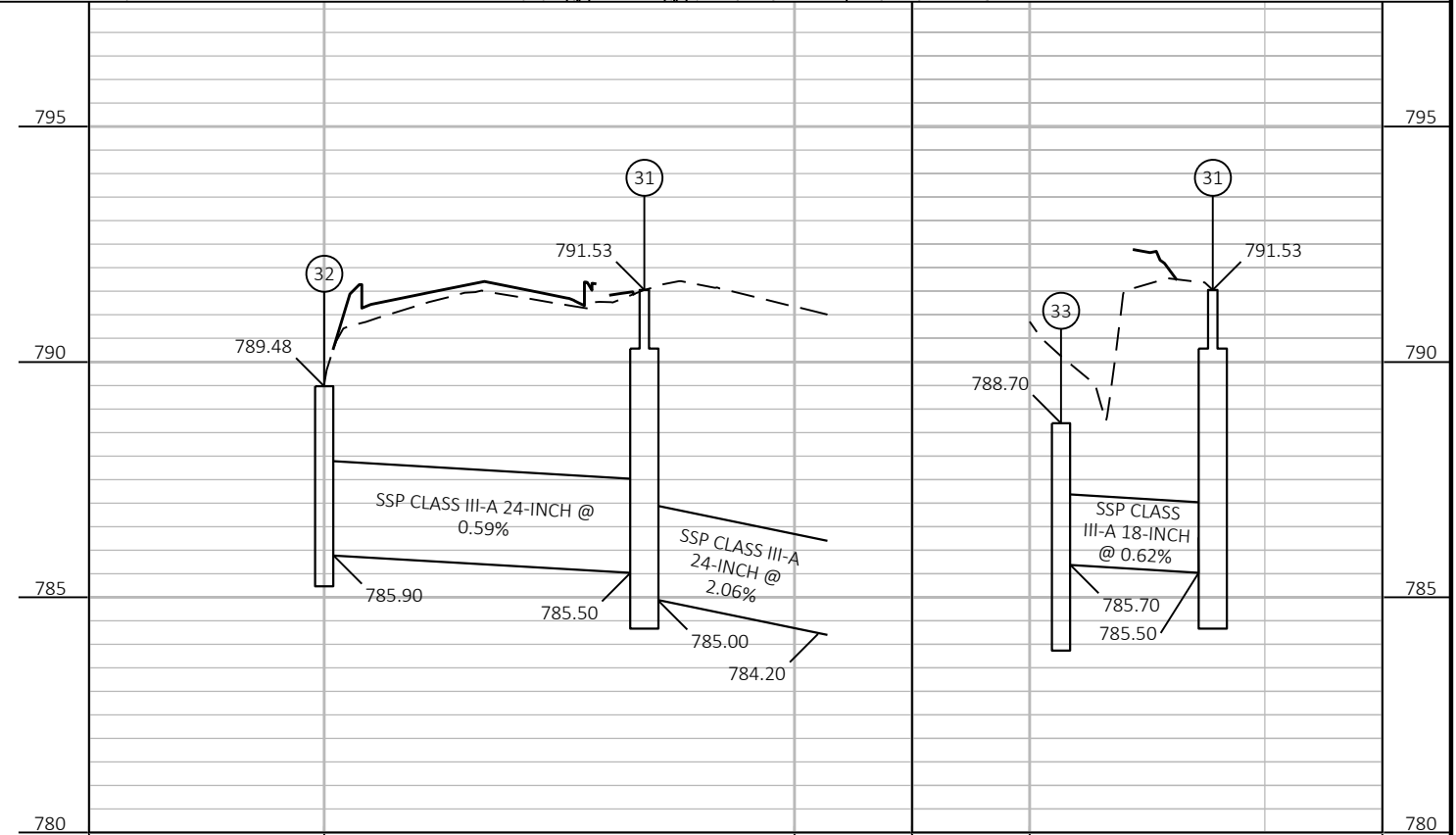
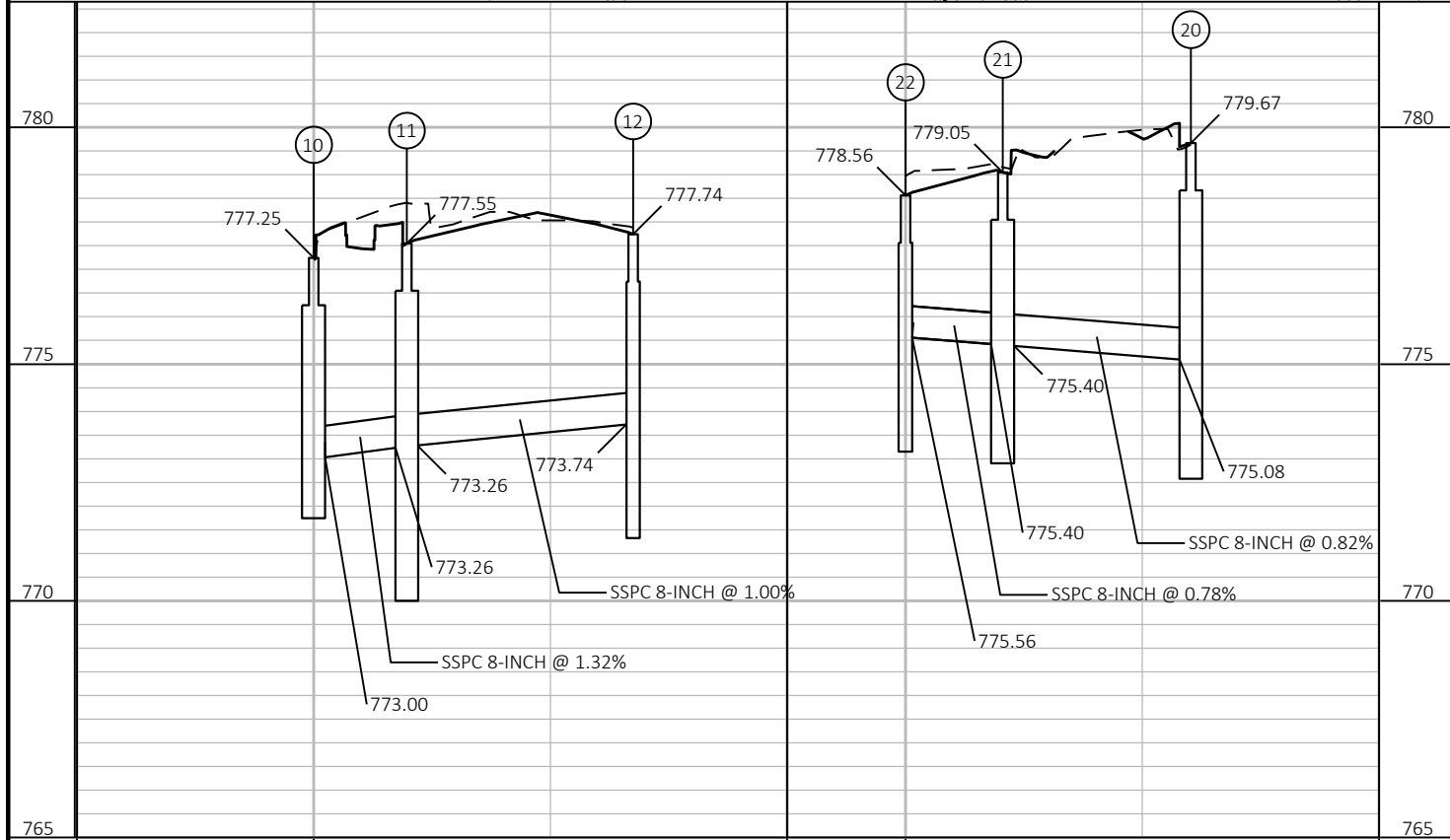
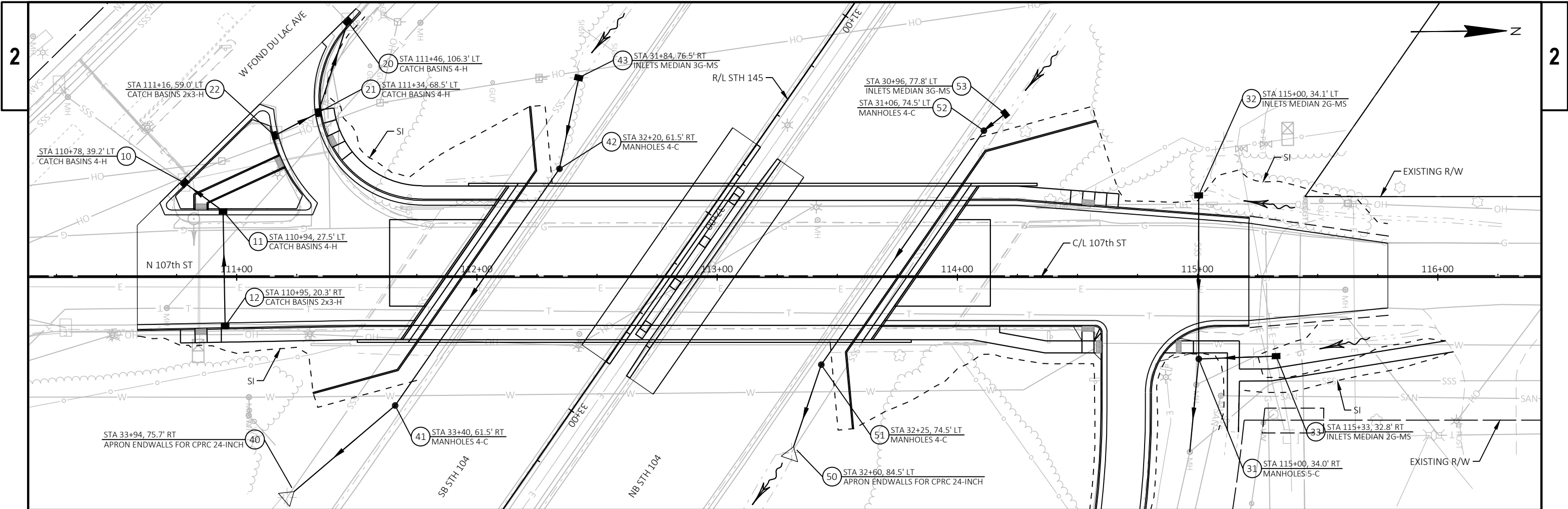
PLOT SCALE : 1 IN:40 FT WISDOT/CADD SHEET 42

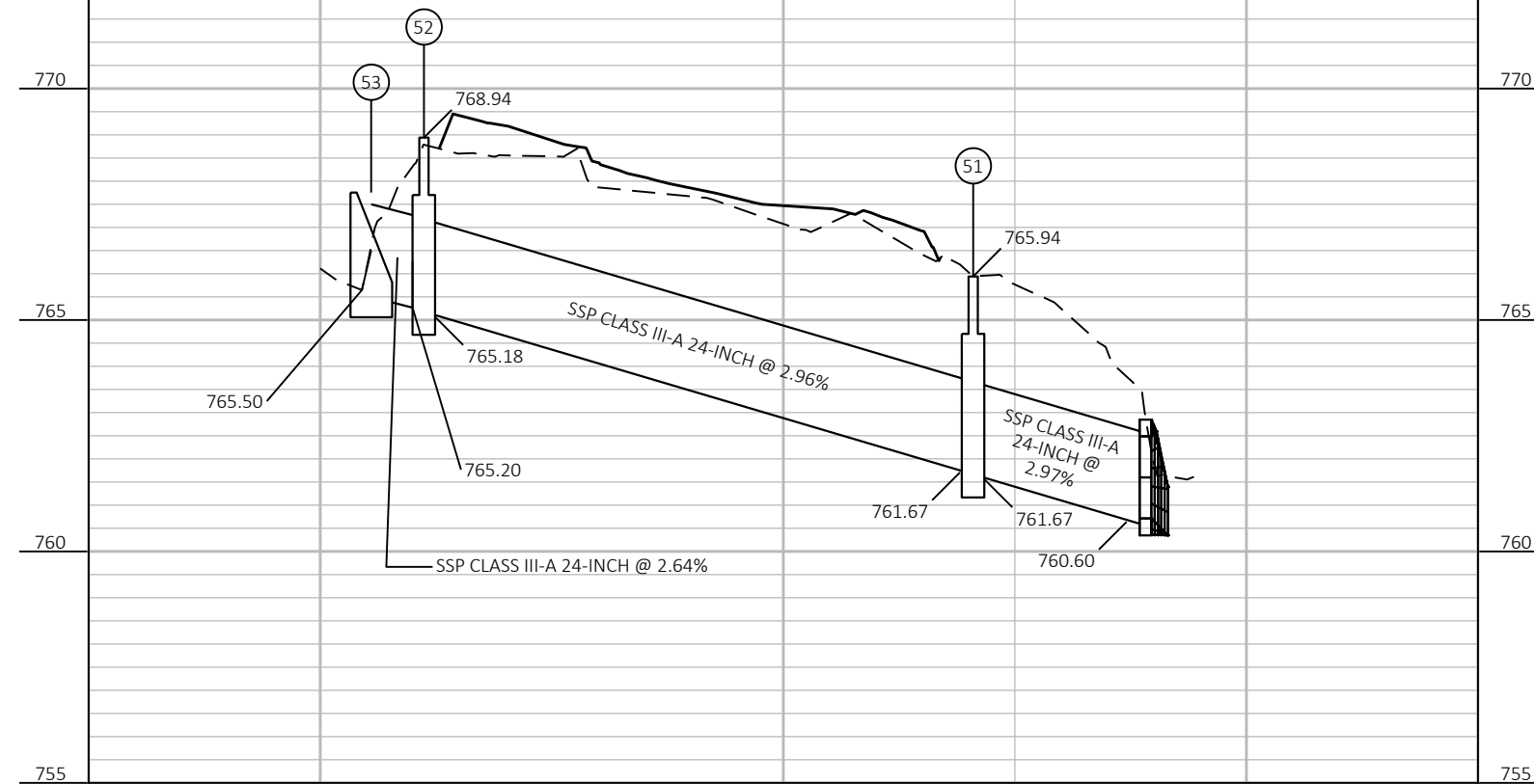
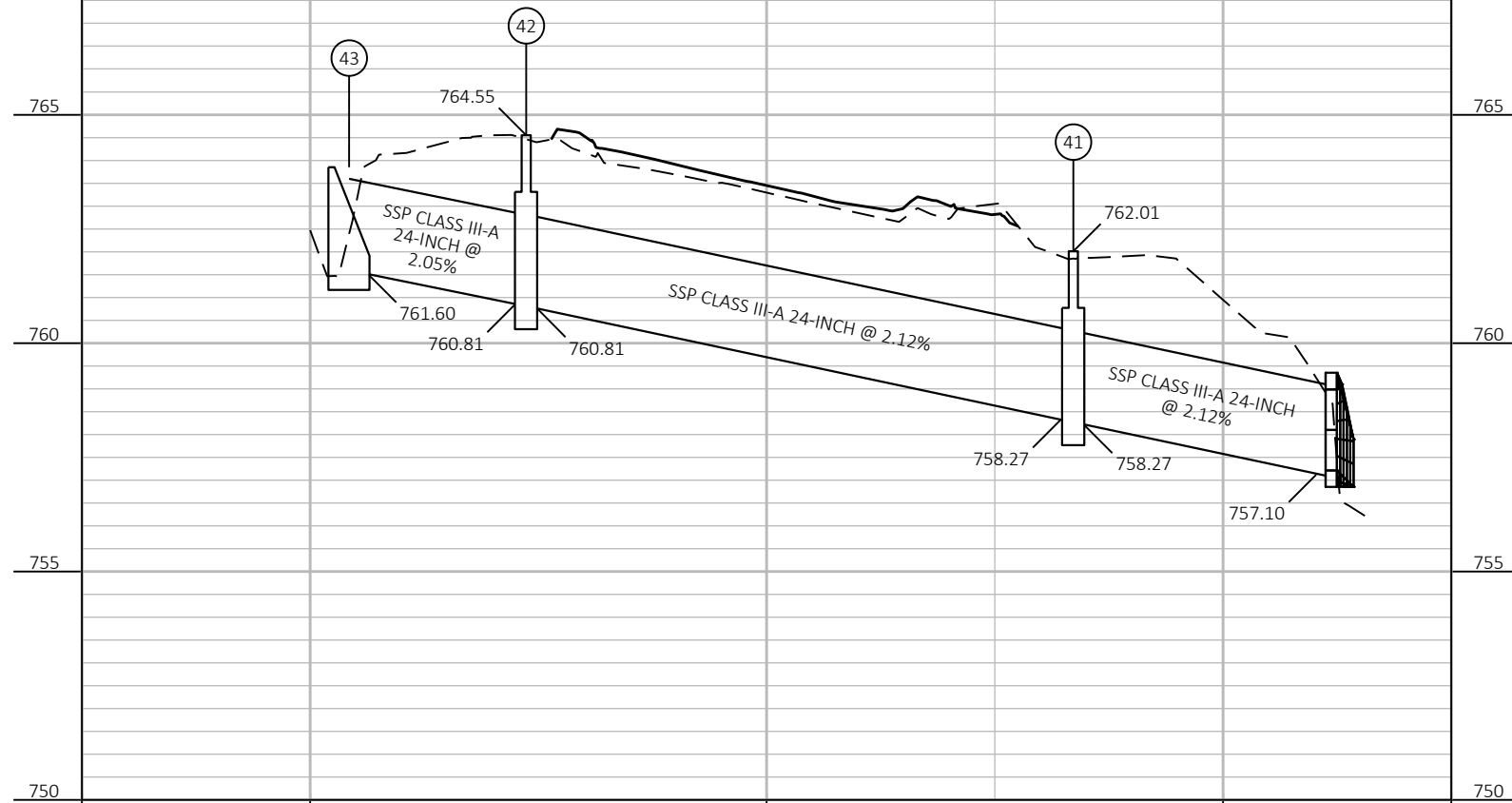
WISDOT/CADDS SHEET 42

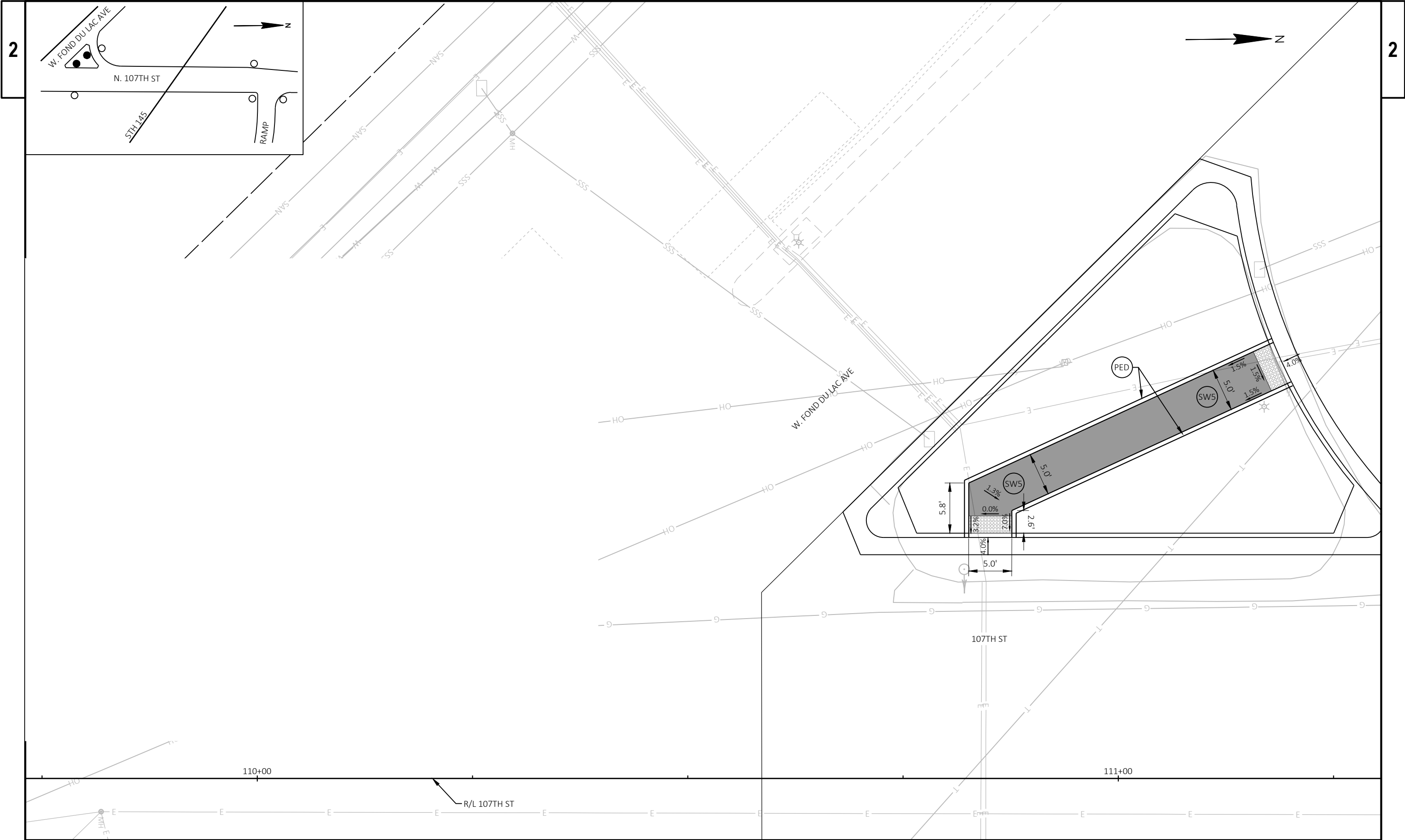




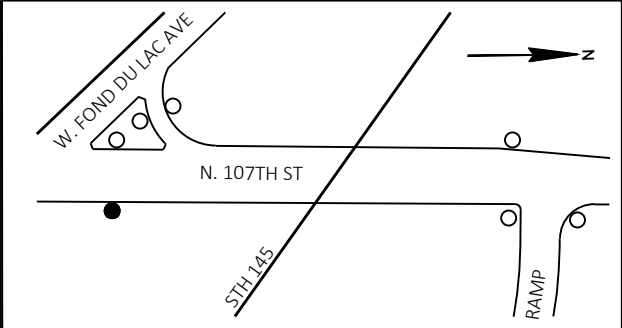
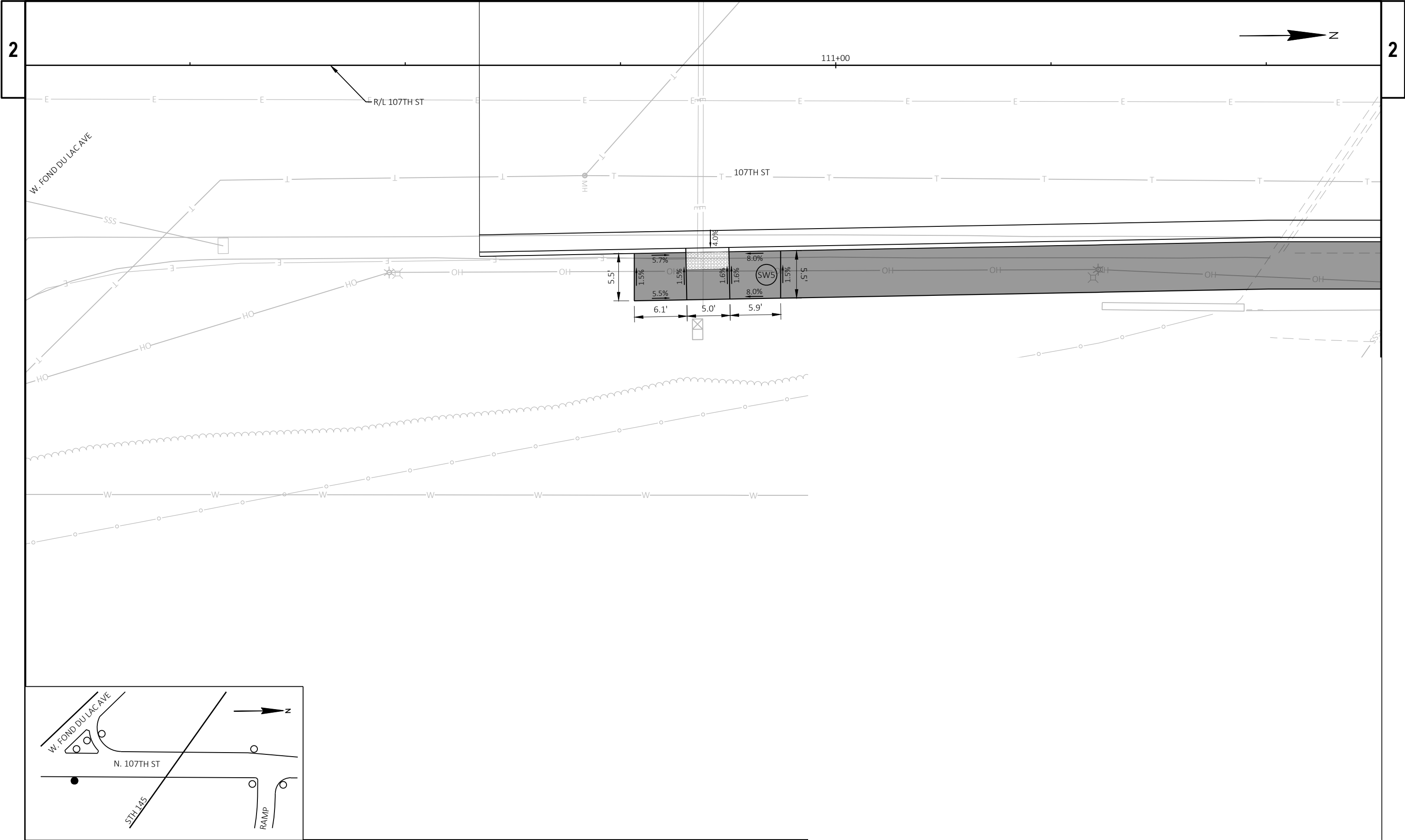
PROJECT NO: 1360-12-70	HWY: STH 145	COUNTY: MILWAUKEE	PLAN DETAILS - 107TH ST	SHEET 12	E
------------------------	--------------	-------------------	-------------------------	----------	---



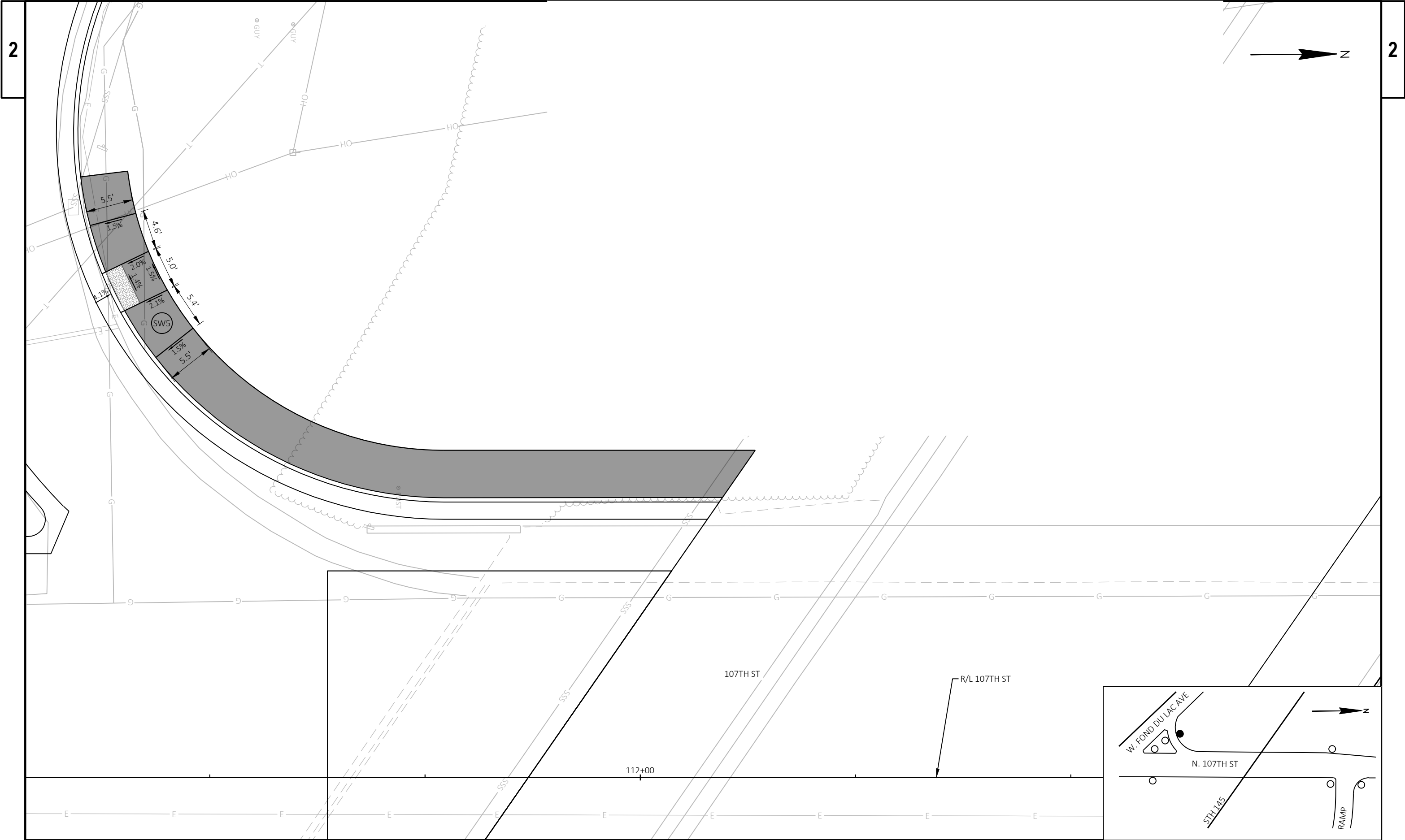




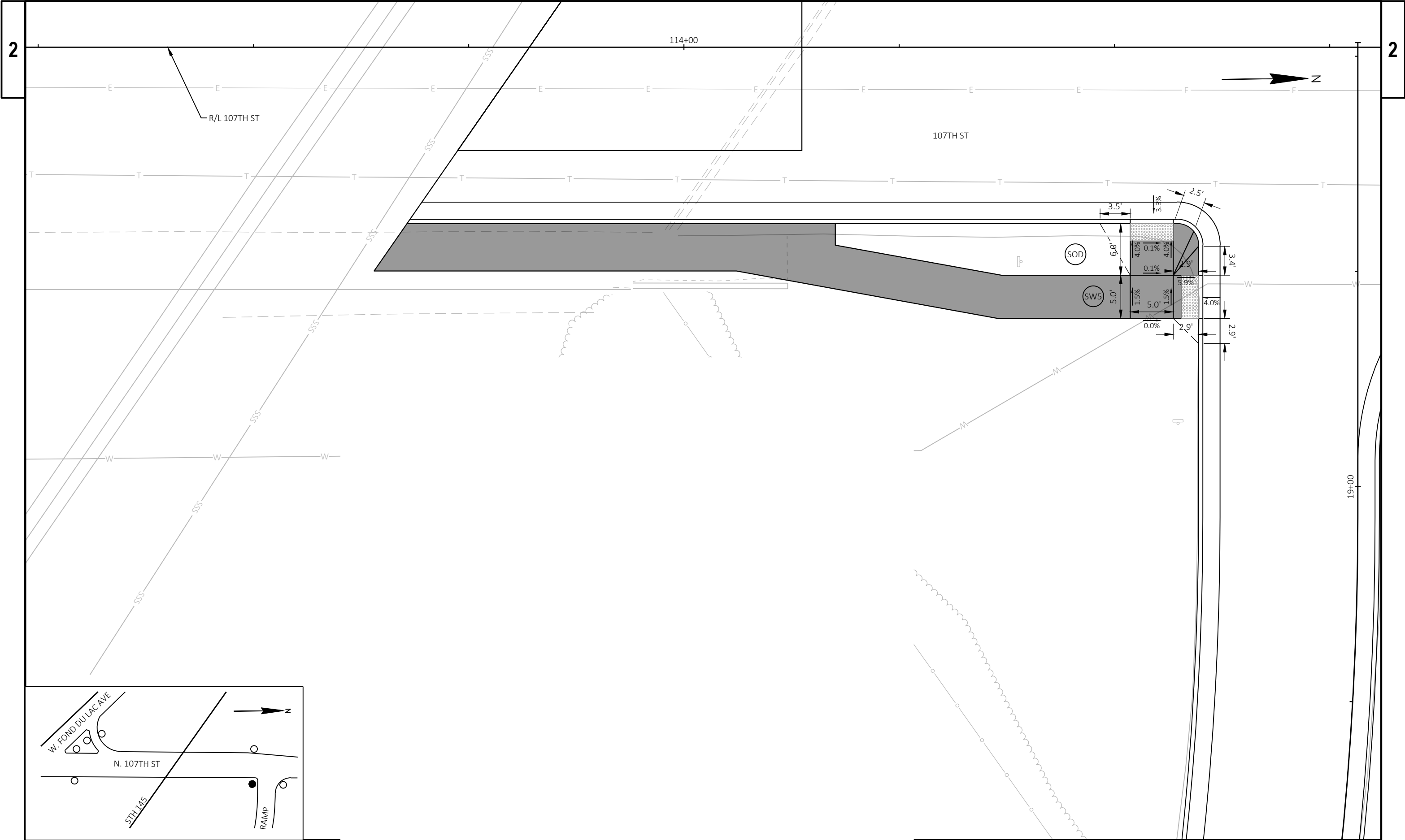
PROJECT NO: 1360-12-70	HWY: STH 145	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 15	E
------------------------	--------------	-------------------	-------------------	----------	---



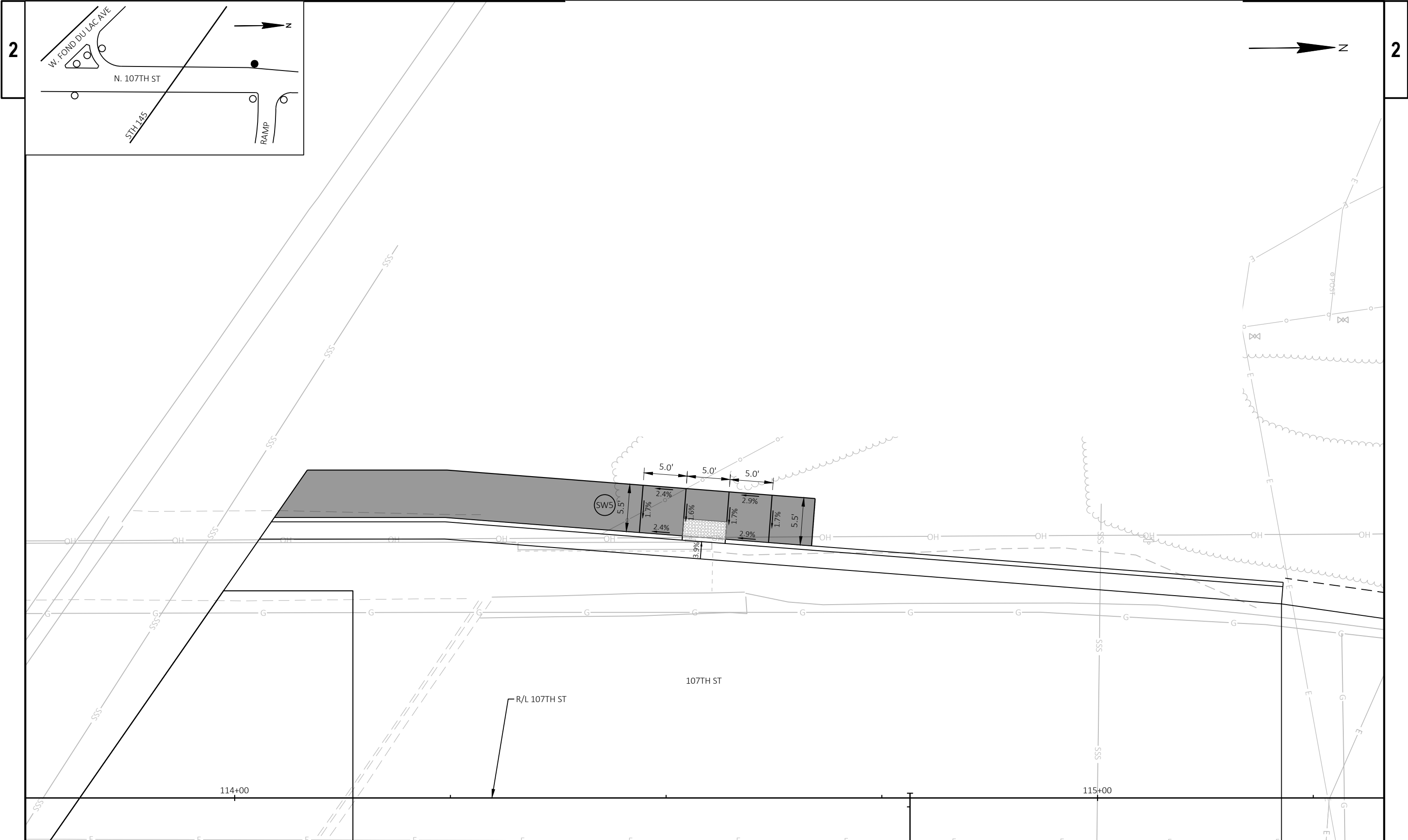
PROJECT NO: 1360-12-70	HWY: STH 145	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 16	E
------------------------	--------------	-------------------	-------------------	----------	---

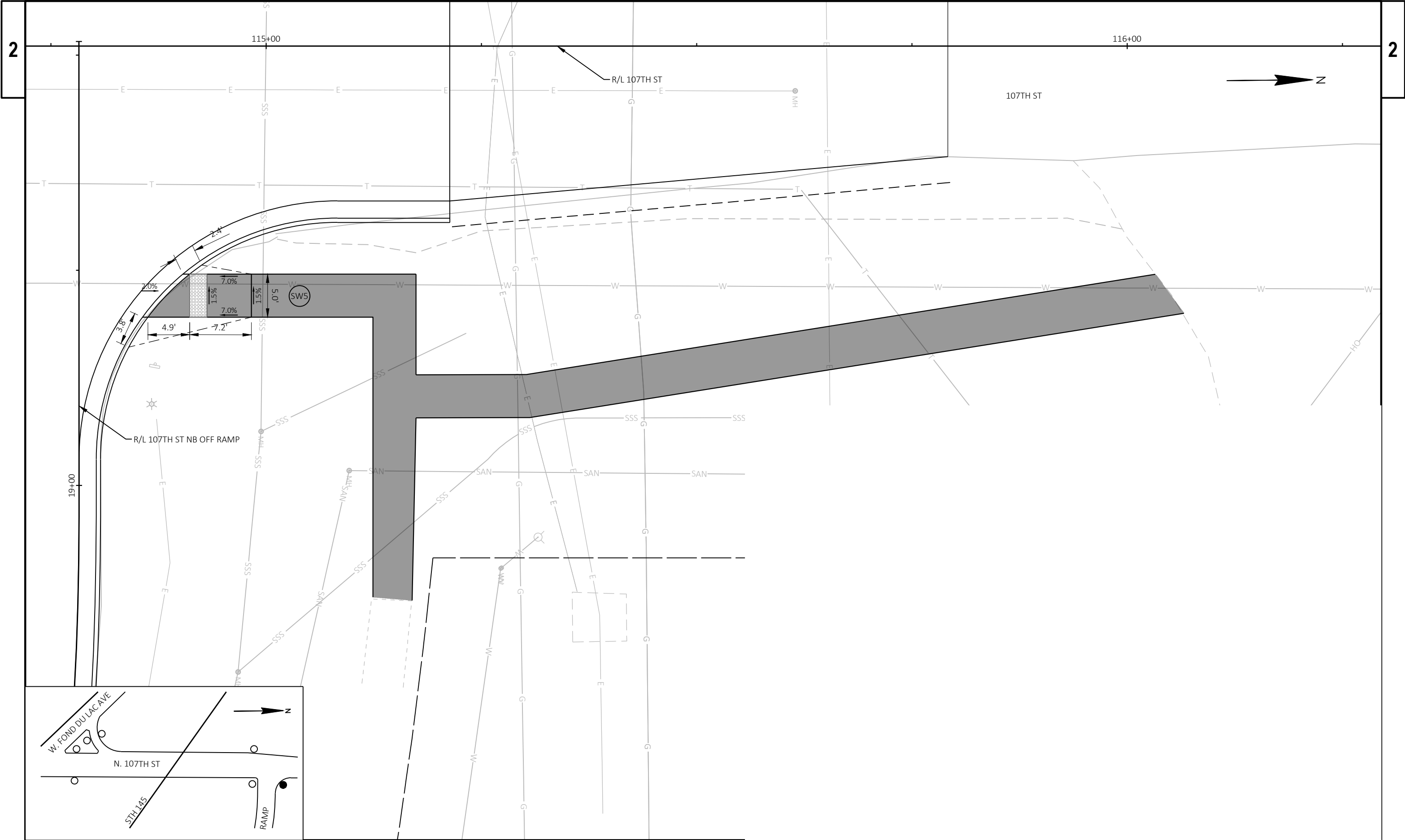


PROJECT NO: 1360-12-70	HWY: STH 145	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 17	E
------------------------	--------------	-------------------	-------------------	----------	---

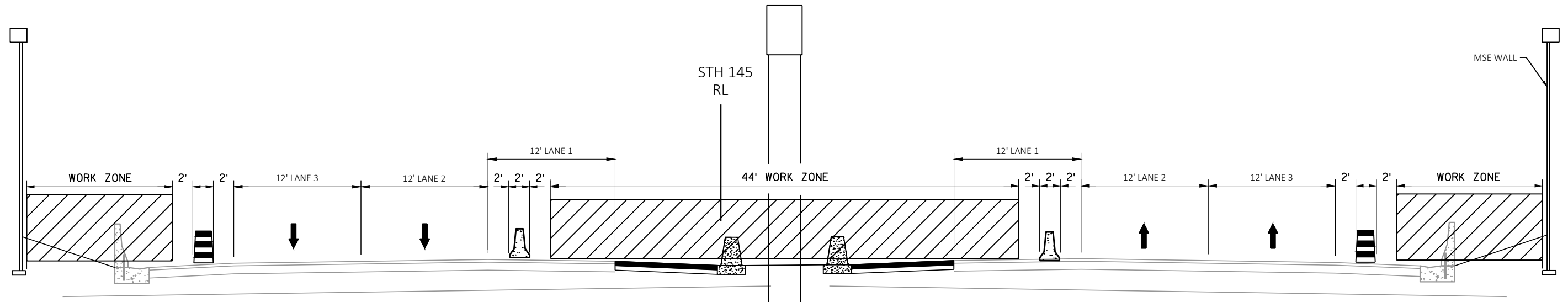


PROJECT NO: 1360-12-70	HWY: STH 145	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 18	E
------------------------	--------------	-------------------	-------------------	----------	---





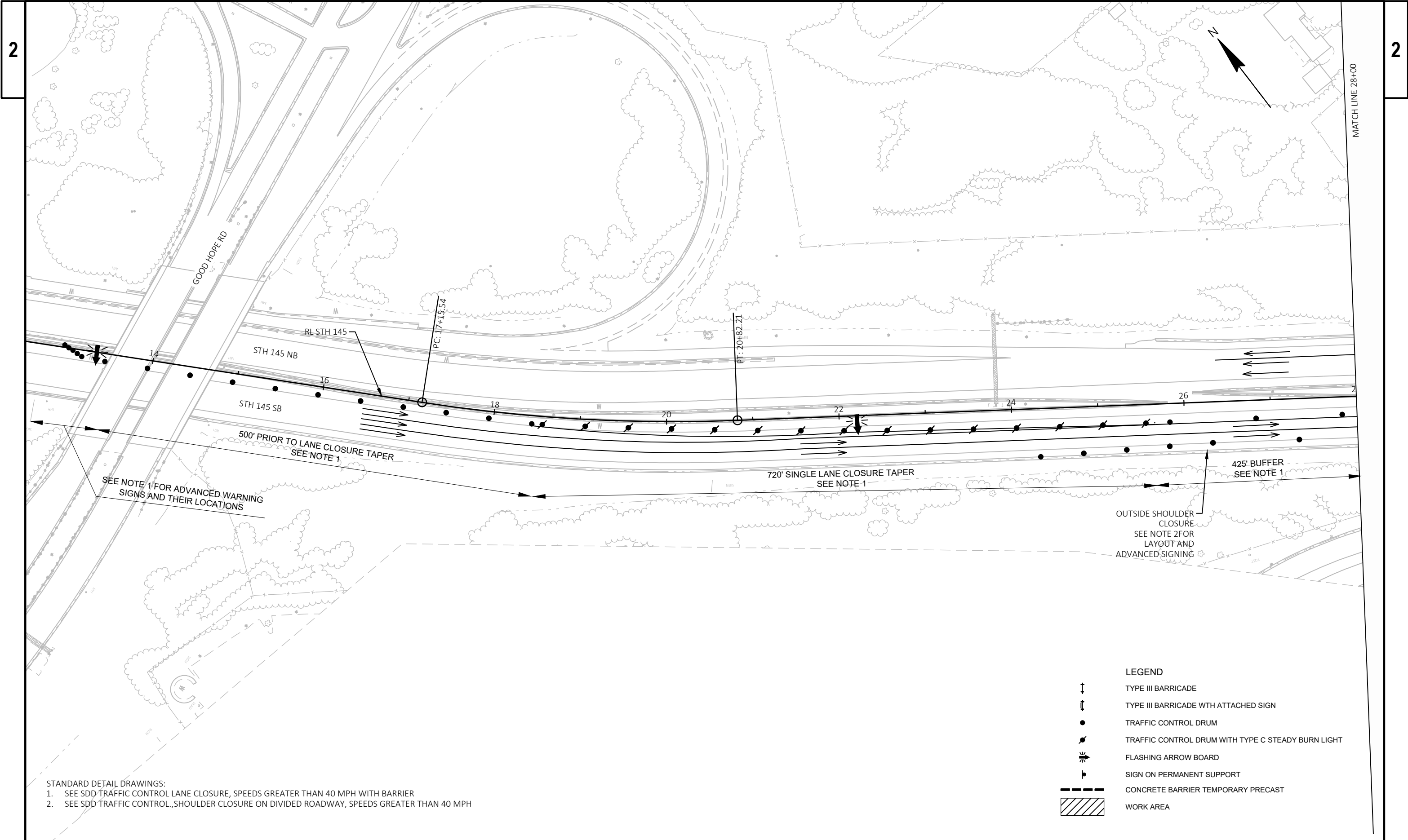
PROJECT NO: 1360-12-70	HWY: STH 145	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 20	E
------------------------	--------------	-------------------	-------------------	----------	---

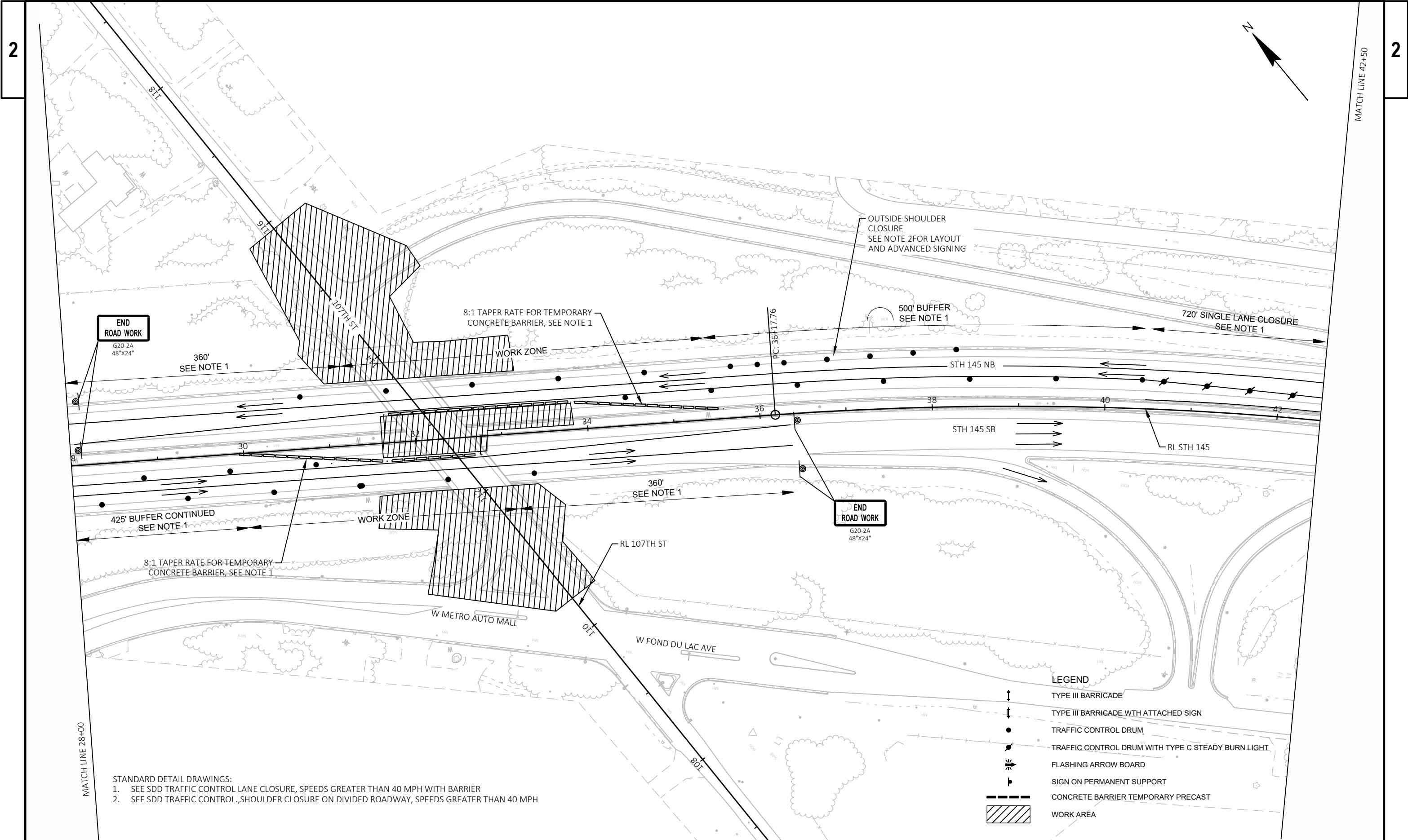
**WORK:**

1. COMPLETE WORK ON INSIDE BARRIER WALL, SHOULDERS AND PIERS UTILIZING INSIDE SINGLE LANE CLOSURES ON STH 145 IN BOTH DIRECTIONS
2. COMPLETE MSE WALL AND SLOPE PAVING ON OUTSIDE OF STH 145 UTILIZING OUTSIDE SHOULDER CLOSURES. THIS WORK WILL BE BEHIND AND PROTECTED BY THE EXISTING BARRIER WALL ON STH 145.
3. SEE TYPICAL SECTION ABOVE FOR TRAFFIC CONTROL CONFIGURATION ADJACENT TO WORK ZONE
4. SEE TRAFFIC CONTROL DETAIL SHEETS FOR TRAFFIC CONTROL LAYOUT PRIOR TO WORK ZONE

TRAFFIC CONTROL NOTES:

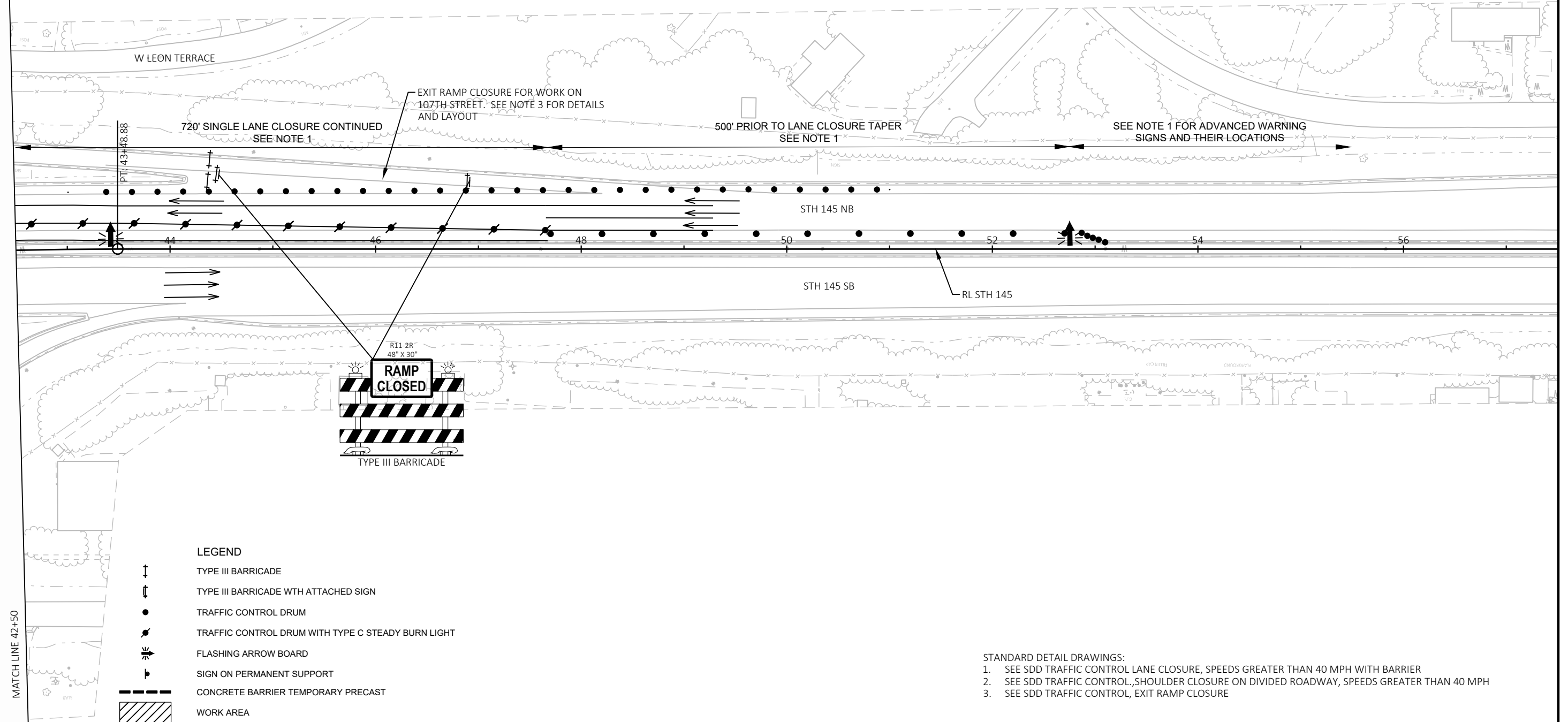
- A. UTILIZE SDD TRAFFIC CONTROL LANE CLOSURE, SPEEDS GREATER THAN 40 MPH WITH BARRIER FOR LANE 1 (INSIDE LANE) SINGLE LANE CLOSURES
- B. UTILIZE SDD TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH FOR OUTSIDE SHOULDER CLOSURES





STANDARD DETAIL DRAWINGS:
1. SEE SDD TRAFFIC CONTROL LANE CLOSURE, SPEEDS GREATER THAN 40 MPH WITH BARRIER
2. SEE SDD TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

- LEGEND
- TYPE III BARRICADE
 - TYPE III BARRICADE WITH ATTACHED SIGN
 - TRAFFIC CONTROL DRUM
 - TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
 - FLASHING ARROW BOARD
 - SIGN ON PERMANENT SUPPORT
 - CONCRETE BARRIER TEMPORARY PRECAST
 - WORK AREA



PROJECT NO: 1360-12-70

HWY: STH 145

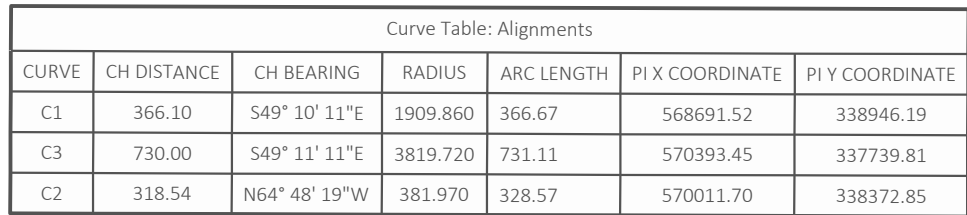
COUNTY: MILWAUKEE

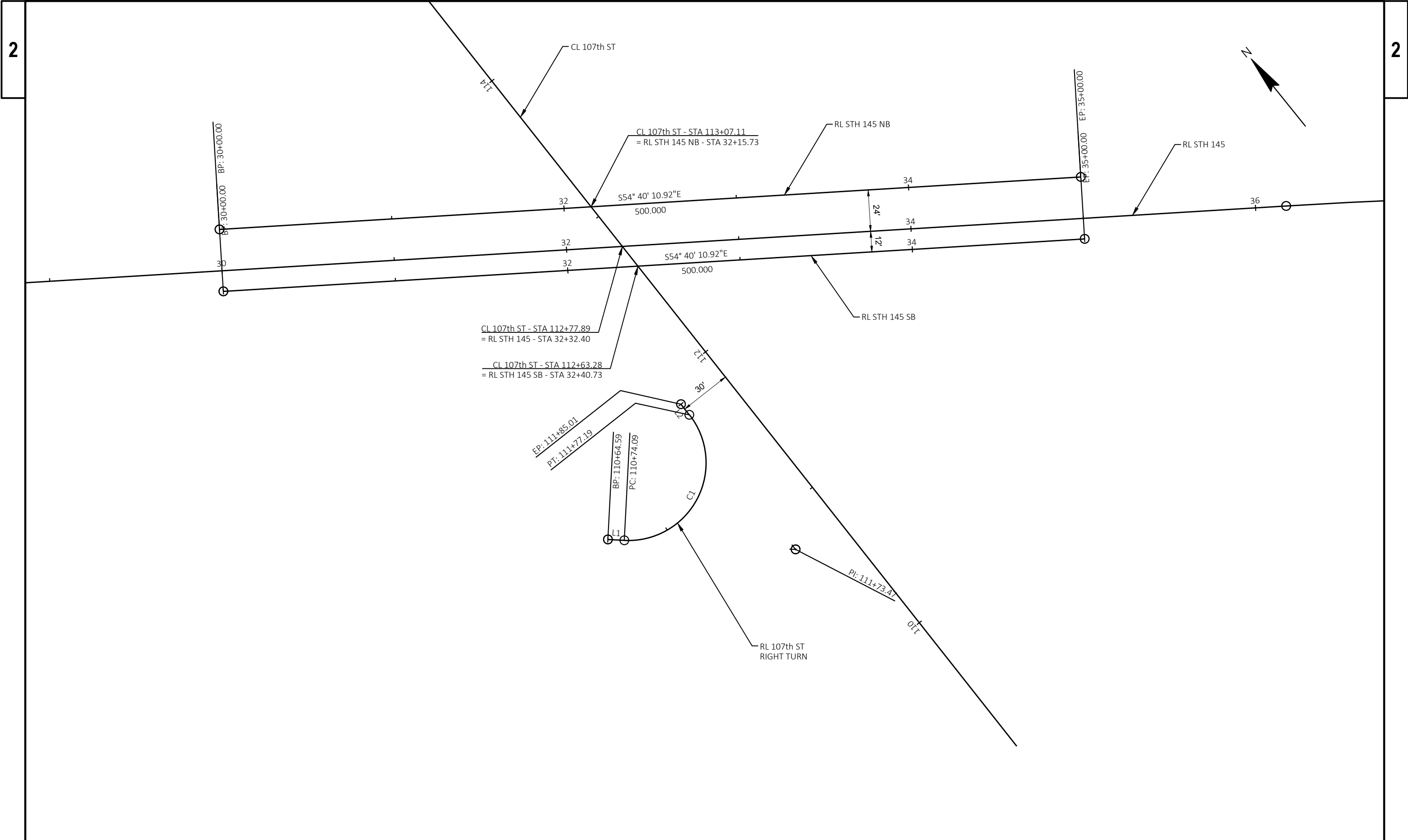
TRAFFIC CONTROL - 107TH ST & STH 145

SHEET

25

E





NOTES:
THIS EXHIBIT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSES ONLY. REFER TO THE CONVEYANCE DOCUMENT FOR PARCEL RELATED DETAILS.

THIS MAP PREPARED BY THE SIGMA GROUP FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

R/W PROJECT NUMBER: 1360-12-00	SHEET NUMBER: 1
TLE ACQUISITION EXHIBIT	
N. 107TH ST.	N 107TH STREET BRIDGE OVER STH 145 MILWAUKEE COUNTY
NE - NE SEC. 19, T8N, R21E, CITY OF MILWAUKEE MILWAUKEE COUNTY, WI	

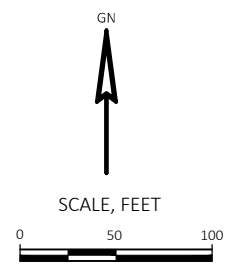
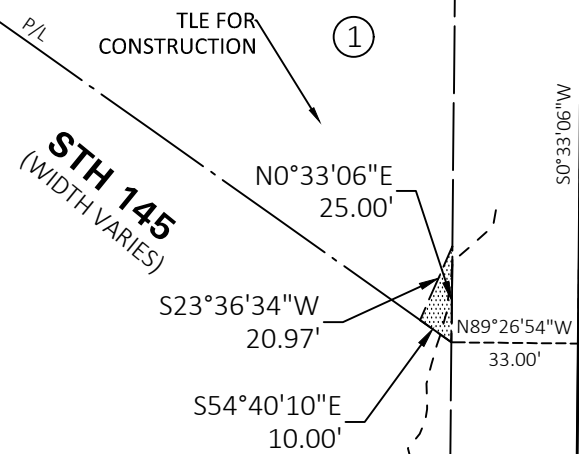
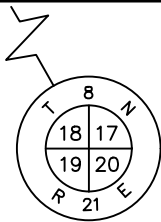
NE - NE
SECTION 19

CITY
OF
MILWAUKEE

PARCEL
#114-9985-110

N. 107TH STREET
(93' R/W)

BRASS CAP
Y = 569,793.375
X = 339,629.192



SCHEDULE OF LANDS & INTERESTS REQUIRED			
OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT			
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TLE S.F.
1	SAMUAL M WEBSTER & GENNISA MARY GEHLER	TLE	103

THIS MAP IS APPROVED FOR THE DEPARTMENT OF TRANSPORTATION
SOUTHEAST REGION OFFICE

SIGNATURE: _____ DATE: _____

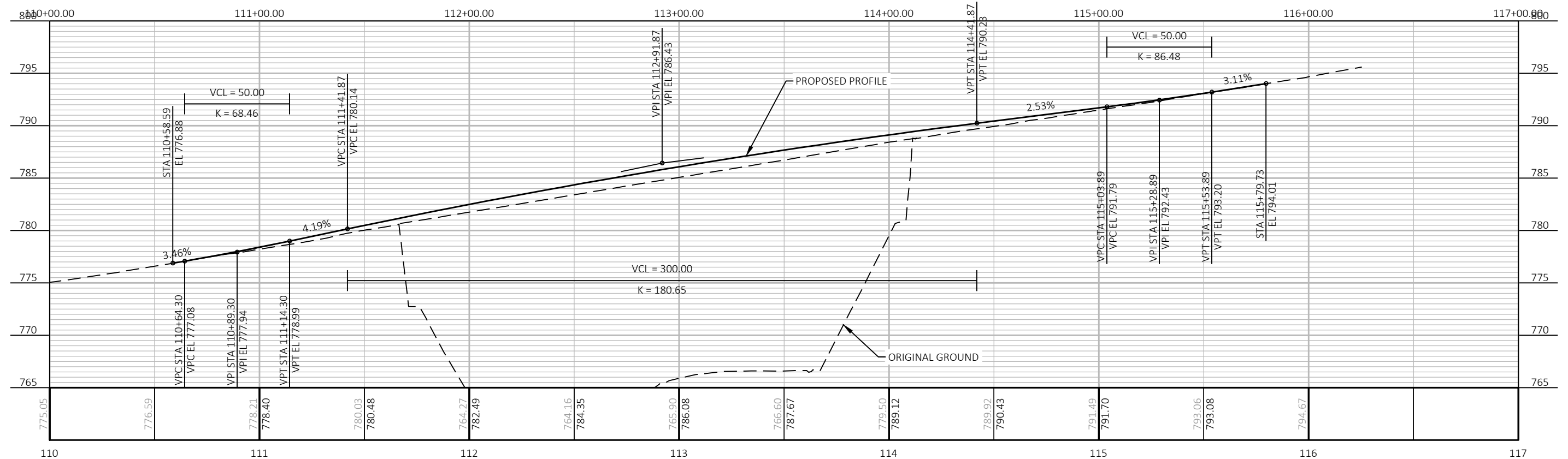
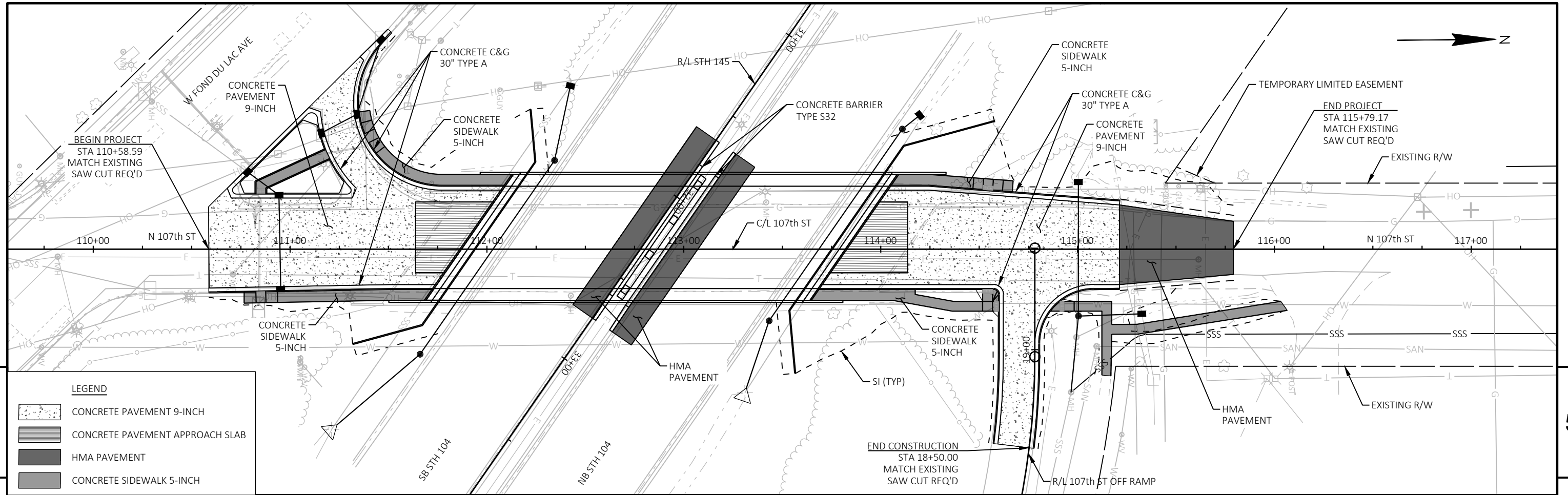
PRINT NAME: _____

4

28

4

FILE NAME : 1360-12-00TLE.DWG PLOT DATE : 2/17/2021 5:16 PM R/W PROJECT: R/W PROJ NO



5

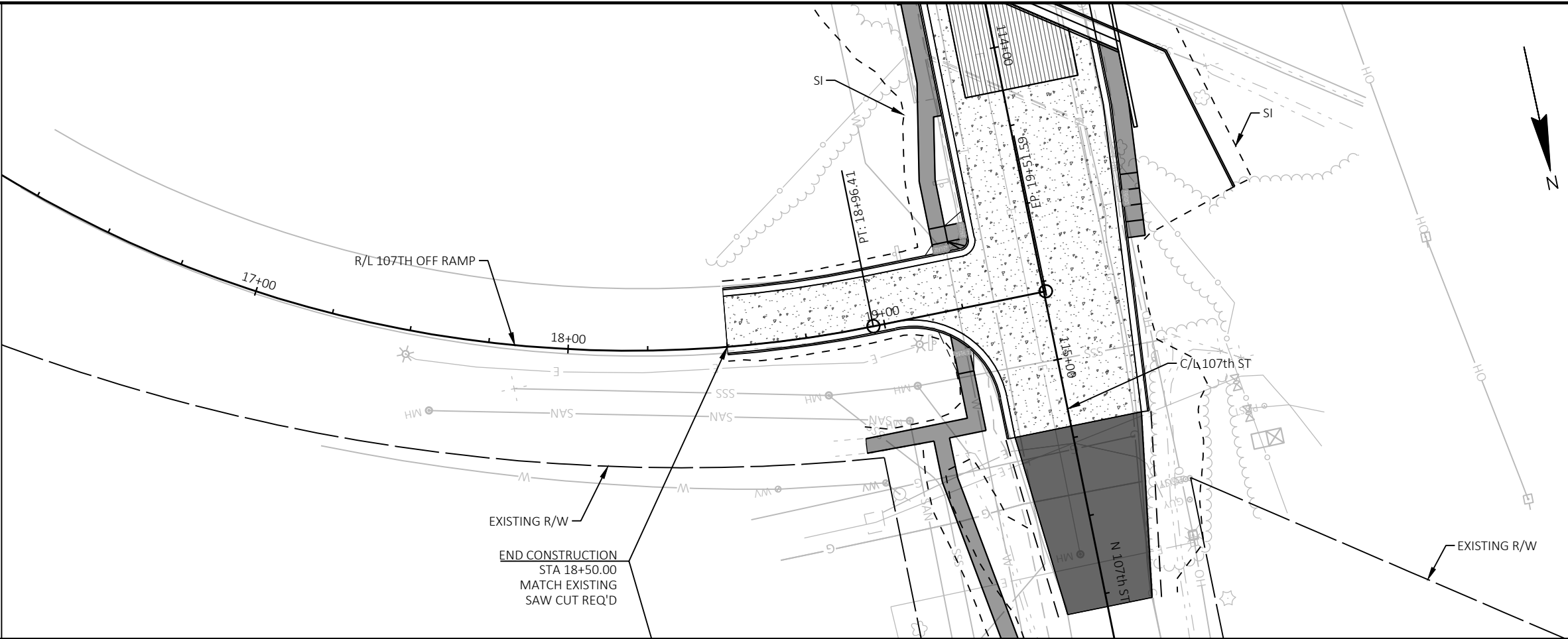
LEGEND

CONCRETE PAVEMENT 9-INCH

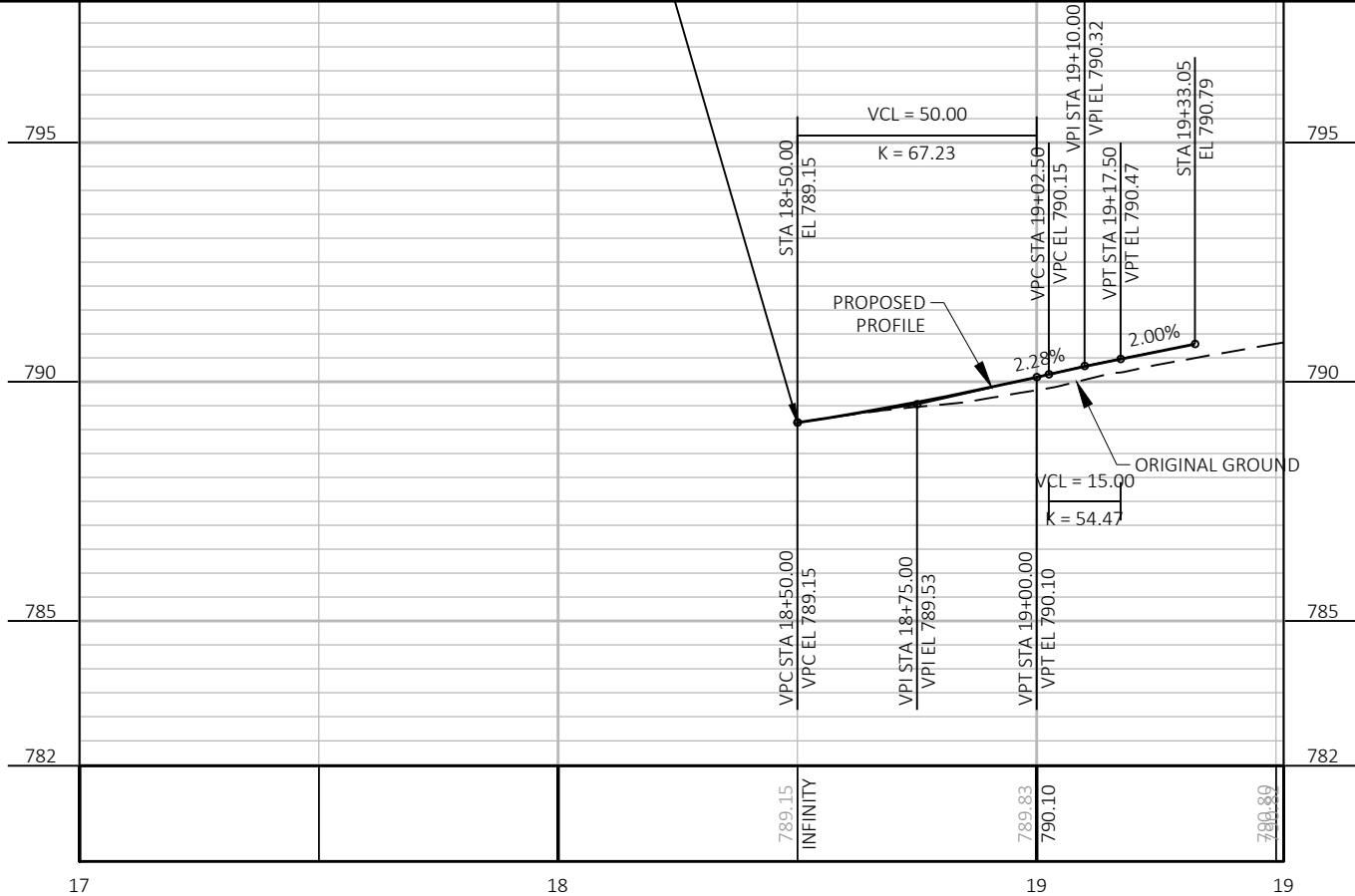
CONCRETE PAVEMENT APPROACH SLAB

HMA PAVEMENT

CONCRETE SIDEWALK 5-INCH



5

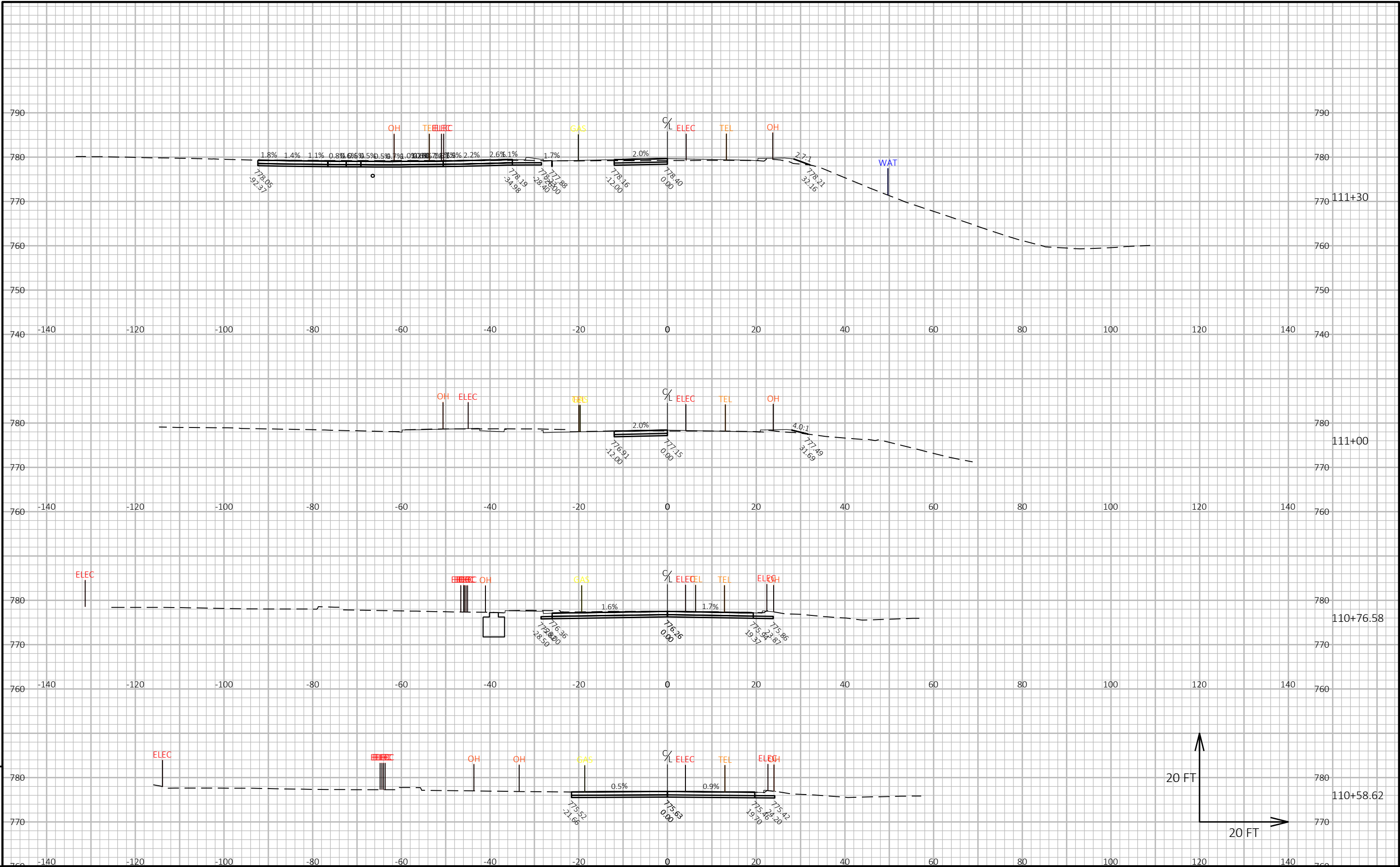


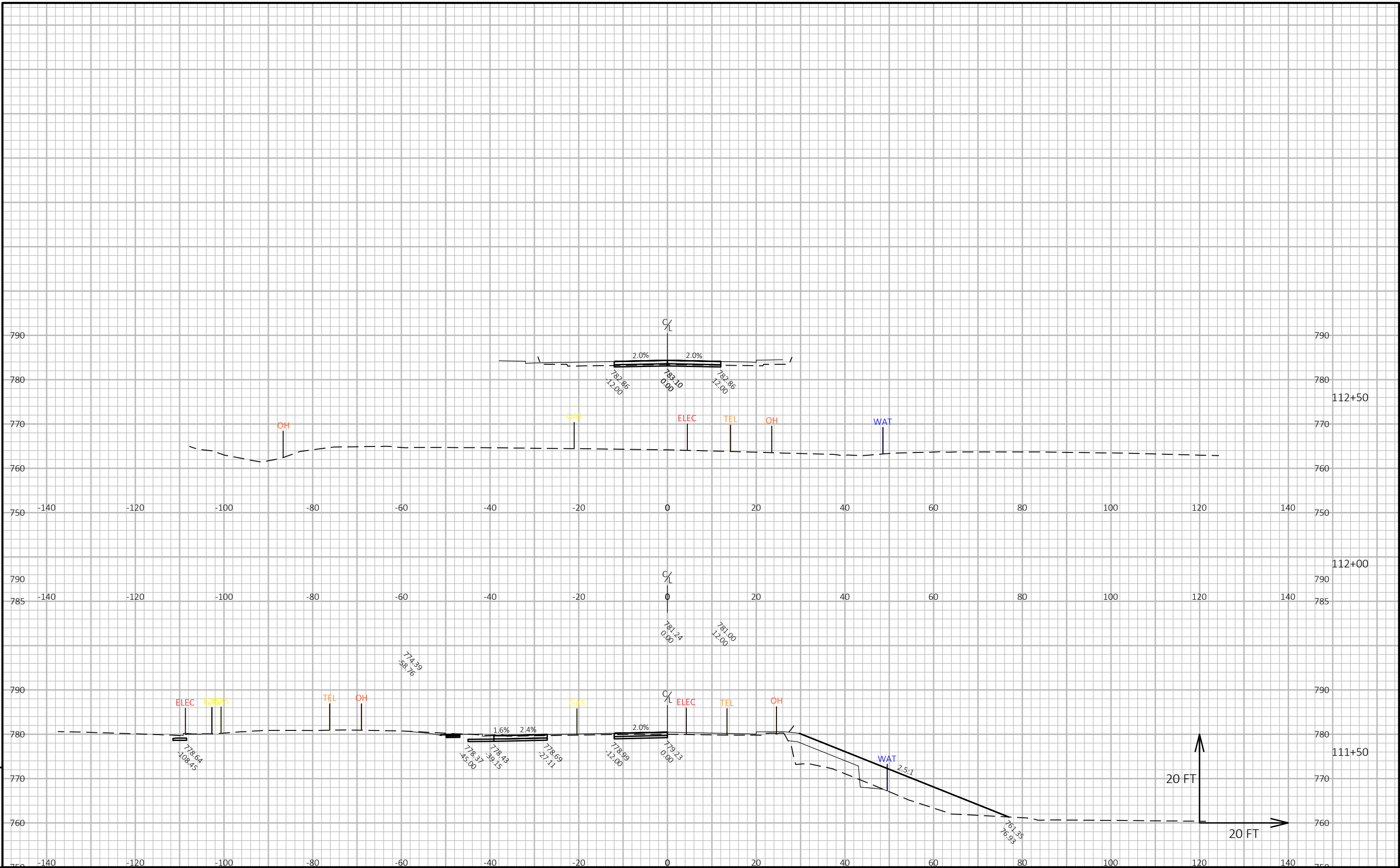
17

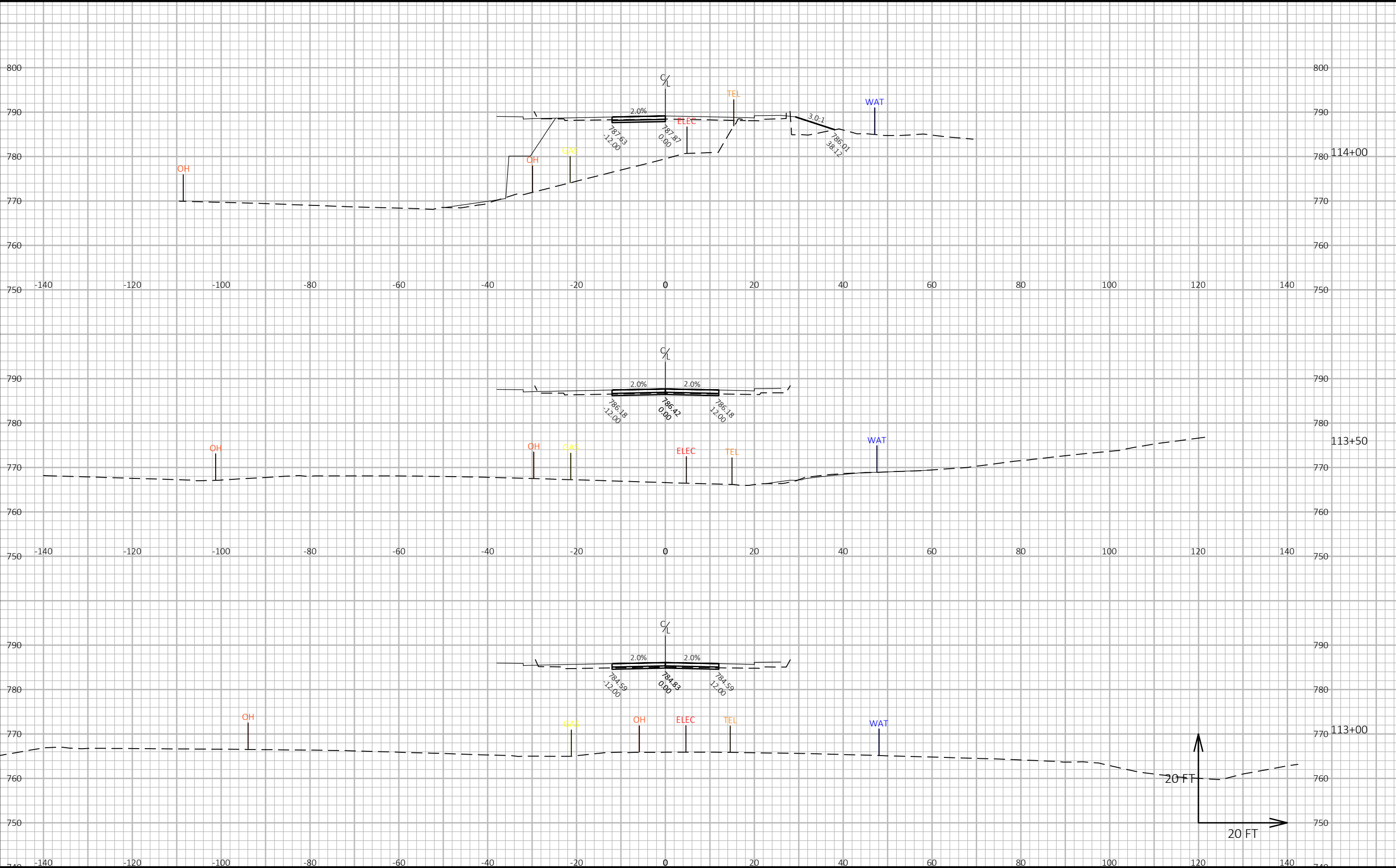
18

19

19

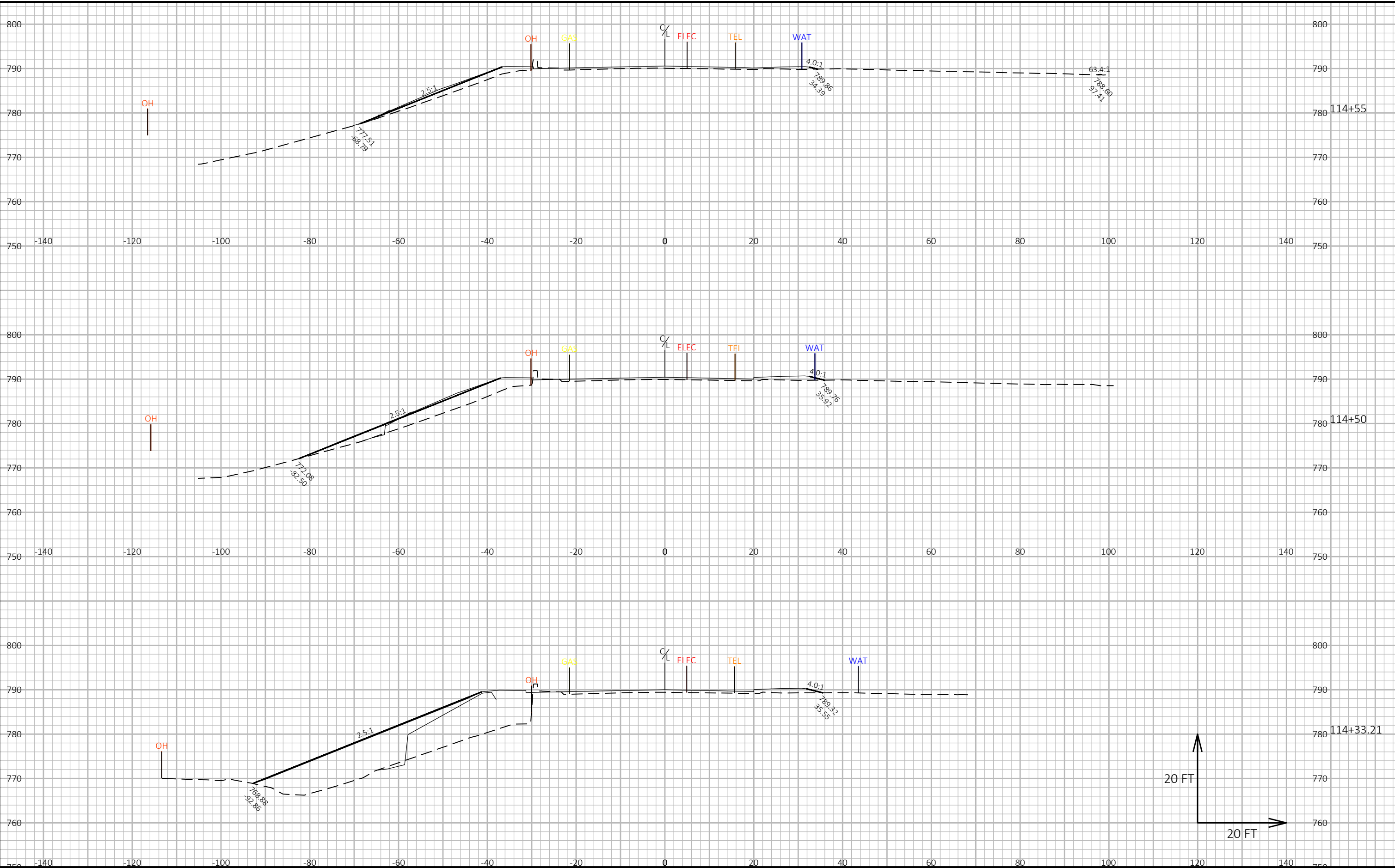






9

9



9

9

PROJECT NO:	1360-12-70	HWY:	STH 145	COUNTY:	MILWAUKEE	CROSS SECTIONS:	107TH ST	SHEET	34	E
-------------	------------	------	---------	---------	-----------	-----------------	----------	-------	----	---

