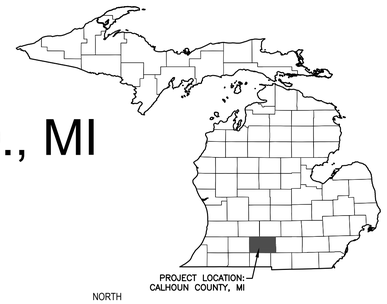
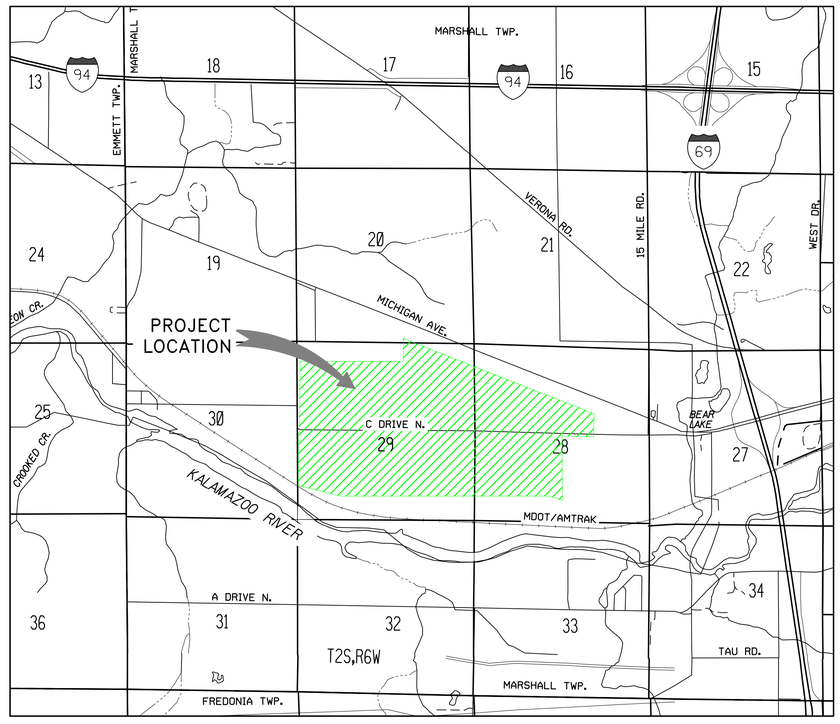
CONSTRUCTION PLANS
FOR
FORD - BLUEOVAL BATTERY PARK MICHIGAN
MARSHALL ECONOMIC DEVELOPMENT ALLIANCE (MAEDA)
BOBPM SITE & UTILITY PLANS

13700 WEST MICHIGAN AVENUE
SECTION 20,28,29, T2S, R6W, MARSHALL TWP., CALHOUN CO., MI



NORTH
COUNTY MAP
NOT TO SCALE

CONTACTS	
LAND OWNER	FORD MOTOR COMPANY 17000 ROTUNDA DR, 1ST FLOOR S. DEARBORN, MI 48120
OWNER	MAEDA
ARCHITECT	SSOE GROUP 1050 WILSHIRE DR. STE. 260, TROY, MI JOHN HEIDT JHEIDT@SSOE.COM
ELECTRIC	CONSUMERS ENERGY BRENDA BRACE BRENDA.BRACE@CMSENERGY.COM
SURFACE WATER MANAGEMENT	CITY OF MARSHALL – STORMWATER MARGUERITE DAVENPORT, PE 269–781–5183 MDAVENPORT@CITYOFMARSHALL.COM
SOIL EROSION CONTROL	CALHOUN COUNTY ROAD DEPARTMENT 13300 15 MILE RD., MARSHALL, MI 269–781–9841
MUNICIPALITY	CITY OF MARSHALL – PUBLIC SERVICES MARGUERITE DAVENPORT, PE 269–781–5183 MDAVENPORT@CITYOFMARSHALL.COM
RAILROAD	AMTRAK – UTILITIES DARRELL HORN & JOESEPH COMDEN 517–750–8547 DARRRELL.HORN@AMTRAK.COM JOSEPH.COMDEN@AMTRAK.COM



NORTH
LOCATION MAP
NOT TO SCALE

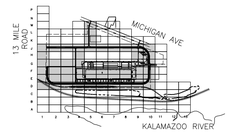
2023–08–29: SCOPE OF WORK FOR THIS RELEASE:

RING ROAD GRADING, DRAINAGE, AND DOMESTIC WATER LOOP – ISSUE FOR PERMIT.

DEEP STORM IFC UPDATES ARE INCLUDED FOR THE REVISED EAST RING ROAD ALIGNMENT.

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45687
LICENSED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION



KEY PLAN
SCALE: NO SCALE

811
Know what's below.
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USA
Ford

BLUE OVAL
BATTERY PARK
MICHIGAN
BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

A/E OF RECORD LOGO
WADE TRIM
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Taylor, MI 48180
734.947.9700
www.wadetrim.com

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DATE	ISSUED FOR
09/22/23	• BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT
08/31/23	• BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT

A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE
COVER SHEET

SHEET NUMBER
G-001

PLOT DATE: 9/22/2023 9:13:58 AM
SAVE DATE: 9/13/2023 5:36:43 PM
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C:\Users\piper.ADAM\Documents\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\2300060-G-PLTS-COVR-A02-ADAM.dwg

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CABLE TV

	EXISTING	PROPOSED
CABLE TV POLE		
CABLE TV PEDESTAL	CT	CT
OVERHEAD CABLE TELEVISION	CTV CTV	CTV CTV
UNDERGROUND CABLE TELEVISION	UCTV UCTV	UCTV

ELECTRICAL

	EXISTING	PROPOSED
CIRCUIT BREAKER PANEL	CBP	CBP
HANDHOLE	EH	EH
MANHOLE	E	E
OUTLET		
PEDESTAL	PP	PP
TRANSFORMER BOX	E	E
METER	EM	EM
POWER POLE		
TRANSFORMER TOWER		
OVERHEAD ELECTRIC	E E	E E
UNDERGROUND ELECTRIC	UE UE	UE UE

GAS

	EXISTING	PROPOSED
VENT	VT	VT
BLOW OFF	BO	BO
FILLER PIPE	R	R
MANHOLE	G	G
METER	GM	GM
STOP BOX		
SHUTOFF VALVE	GV	GV
GAS	G G	G G

MONUMENTS

IRON (FOUND)	IR
IRON (SET)	IR
BENCH MARK	BM
BRASS PLATE	
CONCRETE NAIL	CN
DRILL HOLE	CH
GOVERNMENT CORNER	
GPS MONUMENT	GPS
IRON PIPE	IP
MONUMENT BOX	BOX
MONUMENT	
MERE STONE	MS
NGS MONUMENT	NGS
NAIL & TAG	N&T
PINCH IRON	PI
PK NAIL	PK
RAILROAD SPIKE	RS
RIGHT-OF-WAY MARKER	R/W
SPIKE	SPK
SHIPS SPIKE	
T-IRON	IRON
USGS MONUMENT	USGS
CROSS CUT	
CROSS CUT IN MONUMENT	
WOOD STAKE	WS

OVERHEAD UTILITIES

	EXISTING	PROPOSED
DEADMAN ANCHOR	DA	DA
FLOOD LIGHT		
GUY WIRE ANCHOR	GA	GA
GUY POLE	GP	GP
LAMP POLE		
METAL LIGHT POLE		
ORNAMENTAL LIGHT		
POLE BOX		
POWER & LIGHT POLE		
POWER & TELEPHONE POLE		
TELE, CTV, PWR & LIGHT POLE	TCP	TCP
TELE, CTV, & POWER POLE	TCP	TCP
TELE, & CTV POLE		
TELE, CTV, & LIGHT POLE		
TELE,. & LIGHT POLE		
TELE, POWER, & LIGHT POLE		
UTILITY POLE		
OVERHEAD CABLE TV & TELEPHONE	CTV&T	
OVERHEAD ELECTRIC & CABLE TV	E&CTV	
OVERHEAD ELECTRIC, CABLE TV AND TELEPHONE	E&CTV&T	

SANITARY SEWER

	EXISTING	PROPOSED
CLEAN OUT	CO	CO
PUMPSTATION MANHOLE		
SANITARY MANHOLE	S	S
COMBINED SEWER MANHOLE		
SEPTIC TANK		
SEWER VENT	SV	SV
FORCEMAIN	FM FM	FM FM
SANITARY SEWER		
COMBINED SEWER		

Know what's **below.**
Call before you dig.

SITE (MISCELLANEOUS)

	EXISTING	PROPOSED
ABANDON ITEM		ABN
ACCESSIBLE SYMBOL		
ADJUST ITEM		ADJ
FINISH GRADE		1234.56 / 1234.56
FLOW ARROW		
PARKING COUNT		1
RECONSTRUCT ITEM		REC
RELOCATE ITEM		REL
REMOVE ITEM		REM
SLOPE LABEL		1.00%
SPOT GRADE		1234.56
FLOOD LIGHT		
LAMP POLE		
LIGHT POLE (SINGLE LAMP)		
LIGHT POLE (DOUBLE LAMP 180°)		
LIGHT POLE (DOUBLE LAMP 90°)		
LIGHT POLE (THREE LAMP)		
LIGHT POLE (FOUR LAMP)		
ORNAMENTAL LIGHT POLE		
METAL LIGHT POLE		
TEST "H" PILE		HP.
TEMP. SLOPE DRAIN		

STORM SEWER/DRAINAGE

	EXISTING	PROPOSED
CATCH BASIN (ROUND GRATE)	CB	CB
CATCH BASIN (SQUARE GRATE)	CB	CB
CISTERN	CT	CT
BOX CULVERT		
CULVERT HEADWALL		
CULVERT END SECTION		
DOWN SPOUT	DS	DS
ROUND INLET	I	I
SQUARE INLET	I	I
STORM MANHOLE	ST	ST
STORM SEWER STUB	STS	
CHECK DAM		
PERM./TEMP. DITCH CENTERLINE		
FLOOD PLAIN	FLP	FLP
STORM SEWER		
UNDERDRAIN		ST ST ST ST
DRAINAGE BOUNDARY		

TELEPHONE

	EXISTING	PROPOSED
TELEPHONE POLE		
TELEPHONE MANHOLE	T	T
TELEPHONE PEDESTAL	TP	TP
COMMUNICATIONS HANDHOLE	CH	CH
FIRE CALL	FC	FC
POLICE CALL	PC	PC
PHONE BOOTH		
OVERHEAD TELEPHONE	T T	T T
UNDERGROUND TELEPHONE	UT UT	UT UT

TOPOGRAPHIC FEATURES

AIR CONDITION UNIT UNIT	AC
ANTENNA	
FILL PORT	
FLAG POLE	FP
GAS PUMP	
GAS TANK (UNDERGROUND)	GT
LIGHT POLE BASE	
MONITORING WELL	WELL
POST (ROUND)	P
POST (SQUARE)	P
ROCK	ROCK
SIGN POST	S
SPRINKLER HEAD	SH
SPRINKLER JUNCTION BOX	JB
TRAFFIC SIGNAL	
UNDERGROUND MARKER	M
U/G MARKER CABLE	M-C
U/G MARKER ELECTRIC	M-E
U/G MARKER FIBER OPTIC	M-FO
U/G MARKER GAS	M-G
U/G MARKER TELEPHONE	M-T
1% ANNUAL CHANCE (ZONE A) FLOODPLAIN BOUNDARY	FLP

UNDERGROUND UTILITIES

UTILITY MANHOLE	U
FIBER OPTIC	FO FO
UNDERGROUND CTV & TELEPHONE	UCTV&T
UNDERGROUND ELEC. & CABLE TV	UE&CTV
UNDERGROUND ELEC. & TELEPHONE	UE&T
UNDERGROUND ELECTRIC, CABLE TV AND TELEPHONE	UE&CTV&T
UTILITY CROSSING	

VEGETATION

	EXISTING	PROPOSED
CONIFEROUS BUSH		
CONIFEROUS TREE		
DECIDUOUS BUSH		
DECIDUOUS TREE		
MULTI-STEM CONIFEROUS TREE	MS	
MULTI-STEM DECIDUOUS TREE	MS	
STUMP		
BRUSH LINE		
EDGE OF WOODS		
HEDGE		
TREE ROW		

WATER (DOMESTIC)

	EXISTING	PROPOSED
BACKFLOW PREVENTER		
BLOW-OFF VALVE		
FAUCET	WF	WF
FIRE DEPARTMENT CONNECTION		
FIRE HYDRANT		
VALVE & BOX		
VALVE & WELL		
INDICATOR VALVE POST		
METER	WM	WM
METER PIT	MP	MP
VALVE		
WATER LINE STUB	WLS	
WATER TOWER BASE	WATER TOWER	
WELL	WE	WE
SHUT OFF VALVE	WSO	WSO
DOMESTIC WATER	W W	W W
FIRE WATER	FW FW	FW FW

WATER (MISCELLANEOUS)

	EXISTING	PROPOSED
RECLAIM WATER GATE VALVE	REC	REC
SPRINKLER HEAD	SH	
SPRINKLER JUNCTION BOX	JB	
RECLAIM WATER	REC	REC

LINE WORK

	EXISTING	PROPOSED
BOUNDARY LINE		
LIMITS OF DISTURBANCE		
BUILDING		
BUILDING SETBACK		
CHAIN LINK FENCE		
FIELD	F F	
GARDEN	GD GD	
GRAVEL		
GUARDRAIL		
LANDSCAPE	LS LS	
ORNAMENTAL FENCE		
PROPERTY LINE		
RAILROAD TRACK CENTERLINE		
RIGHT OF WAY	R/W	
SECTION LINE		
SILT FENCE		
TO BE DEMOLISHED	XXXXXXXXXXXXXXX	
TOP OF BANK		
UTILITY/DRAINAGE EASEMENT		
WALL		
WETLAND		
WOOD FENCE		

PATTERNS

CONCRETE	
GRAVEL	
PAVEMENT	
HEAVY DUTY PAVEMENT	
EARTH (CROSS SECTION)	
ADA DETECTABLE WARNING	
ADA RAMP	
PULVERIZE PAVEMENT IN PLACE	
AGGREGATE REMOVAL	
EXISTING WETLANDS	
CRUSHED STONE STABILIZATION	

STANDARD ABBREVIATION

ABAN	ABANDON
ALI	ALIGNMENT
APPD	APPROVED
APPROX	APPROXIMATE
HMA	HOT MIX ASHPALT
B-B	BACK TO BACK
BDRY	BOUNDARY
BF	BARRIER FREE
BIT	BITUMINOUS
BM	BENCHMARK
BO	BY OTHERS
BOC	BACK OF CURB
BOW	FINISH GRAD AT BOTTOM OF WALL
CB	CATCH BASIN
℄	CENTERLINE
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
CONC	CONCRETE
CS	COMBINED SEWER
CW	COLD WATER
DA	DRAINAGE AREA
DEMO	DEMOLITION
DI	DUCTILE IRON
DS	DOWNSPOUT
DW	DOMESTIC WATER
DWG	DRAWING
E	EASTING
E-E	EDGE TO EDGE
EL	ELEVATION
EOP	EDGE OF PAVEMENT
ESMT	EASEMENT
EXC	EXCAVATE
FFE	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE
FO	FIBER OPTIC
FOC	FACE OF CURB
FOUE	FIBER OPTIC UNDERGROUND ELECTRIC
FW	FIRE WATER
GB	GRADE BREAK
GDR	GUARD RAIL
GPM	GALLONS PER MINUTE
GUT	GUTTER
GV	GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE
HP	HIGH POINT
HORZ.	HORIZONTAL
HYD	HYDRANT
INT	INTERSECTION
INV	INVERT
IW	IRRIGATION WATER
LF	LINEAL FEET
LP	LOW POINT
MATCH	MATCH EXISTING ELEVATION
MAX	MAXIMUM
MIN	MINIMUM
N	NORTHING
NG	NATURAL GAS
NTS	NOT TO SCALE
OH	OVERHEAD
PG	PLAN GRADE
PH	PHASE
PI	POINT OF INTERSECTION
PIV	POST INDICATOR VALVE
P.L.	PROPERTY LINE
PRV	PRESSURE REDUCING VALVE
PVI	POINT OF VERTICAL INTERSECTION
Q	RATE OF FLOW
R	RADIUS
REF	REFERENCE
ROW	RIGHT OF WAY
RCP	REINFORCED CONCRETE PIPE
RR	RAILROAD
SAN	SANITARY SEWER
STM	STORM SEWER
SW	SIDEWALK
T/C	TOP OF CURB
TOB	TOP OF BANK
TOC	TOP OF CONCRETE
TOE	TOE OF SLOPE
TOF	TOP OF FLANGE
TOW	TOP OF WALL
T/P	TOP OF PAVEMENT
TW	TOP OF WALK
U/G	UNDERGROUND
UE	UNDERGROUND ELECTRIC
UTIL	UTILITY
VC	VERTICAL CURVE
VERT.	VERTICAL
W	WATER
WT	WADE TRIM

UTILITY STRUCTURE IDENTIFICATION

STORM

GRID#-CB-01	STORM CATCH BASIN
GRID#-CO-01	STORM CLEANOUT
GRID#-ST-01	STORM MANHOLE
GRID#-OCS-01	OUTLET CONTROL STRUCTURE
GRID#-ES-01	STORM END SECTION
GRID#-HW-01	

SANITARY SEWER

GRID#-SS-01	SANITARY MANHOLE
GRID#-SS-CO-01	SANITARY CLEANOUT

DOMESTIC WATER

GRID#-DWV-01	DOMESTIC GROUND VALVE
GRID#-DPV-01	DOMESTIC PIV GATE VALVE
GRID#-DWH-01	DOMESTIC FIRE HYDRANT

FIRE WATER

GRID#-FWV-01	FIRE WATER VALVE
GRID#-FWH-01	FIRE WATER HYDRANT

ELECTRICAL

GRID#-EHH-01	ELECTRICAL HANDHOLE
GRID#-EMH-01	ELECTRICAL MANHOLE
GRID#-SLP-01	SINGLE LIGHT POLE
GRID#-DLP-01	DOUBLE LIGHT POLE

COMMUNICATIONS

GRID#-FHH-01	FIBER HANDHOLE
GRID#-FMH-01	FIBER MANHOLE

STATE OF MICHIGAN · ERICH VINCENT SMITH · ENGINEER · NO. 45687 · LICENSED PROFESSIONAL ENGINEER

FORD LAND
17000 ROTUNDA DR, 1ST FLOOR SOUTH
DEARBORN, MICHIGAN 48120-1168
USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

A/E OF RECORD LOGO

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09/22/23	BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT
08/31/23	BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT

A/E TEAM INFORMATION	
IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

LEGEND

SHEET NUMBER

G-002

PLOT DATE: 9/22/2023 9:14:10 AM
SAVE DATE: 9/21/2023 7:51:34 AM
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SHEET INDEX

GENERAL SHEETS	SHEET NO.
COVER SHEET	G-001
LEGEND SHEET	G-002
SHEET INDEX	G-003
SURVEY CONTROL PLAN	G-101
EXISTING SITE DATA PLAN	G-102
ROADWAY ALIGNMENT PLAN	G-103
TRUCK, EMPLOYEE, AND EMERGENCY VEHICLE TRAVEL PATHS	G-104
STORMWATER UTILITY ALIGNMENT PLAN	G-105
DOMESTIC WATER UTILITY ALIGNMENT PLAN	G-106
OVERALL SEEDING PLAN	L1.0
OVERALL PLANTING PLAN	L1.1
LANDSCAPE DETAILS 1	L1.2
LANDSCAPE DETAILS 2	L1.3
PARTIAL D01 SITE PLAN	C-D01-S
PARTIAL D02 GRADING PLAN	C-D02-G
PARTIAL D02 SITE PLAN	C-D02-S
PARTIAL D02 UTILITY PLAN	C-D02-U
PARTIAL D03 GRADING PLAN	C-D03-G
PARTIAL D03 SITE PLAN	C-D03-S
PARTIAL D03 UTILITY PLAN	C-D03-U
PARTIAL D04 GRADING PLAN	C-D04-G
PARTIAL D04 SITE PLAN	C-D04-S
PARTIAL D04 UTILITY PLAN	C-D04-U
PARTIAL D05 GRADING PLAN	C-D05-G
PARTIAL D05 SITE PLAN	C-D05-S
PARTIAL D05 UTILITY PLAN	C-D05-U
PARTIAL D06 GRADING PLAN	C-D06-G
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PARTIAL D06 UTILITY PLAN	C-D06-U
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PARTIAL D08 SITE PLAN	C-D08-S
PARTIAL D08 UTILITY PLAN	C-D08-U
PARTIAL D09 GRADING PLAN	C-D09-G
PARTIAL D09 SITE PLAN	C-D09-S
PARTIAL D09 UTILITY PLAN	C-D09-U
PARTIAL D10 GRADING PLAN	C-D10-G
PARTIAL D10 SITE PLAN	C-D10-S
PARTIAL D10 UTILITY PLAN	C-D10-U
PARTIAL E01 GRADING PLAN	C-E01-G
PARTIAL E01 SITE PLAN	C-E01-S
PARTIAL E01 UTILITY PLAN	C-E01-U
PARTIAL E02 GRADING PLAN	C-E02-G
PARTIAL E02 SITE PLAN	C-E02-S
PARTIAL E02 UTILITY PLAN	C-E02-U
PARTIAL E03 UTILITY PLAN	C-E03-U
PARTIAL E04 GRADING PLAN	C-E04-G
PARTIAL E04 SITE PLAN	C-E04-S
PARTIAL E04 UTILITY PLAN	C-E04-U
PARTIAL E05 UTILITY PLAN	C-E05-U
PARTIAL E06 UTILITY PLAN	C-E06-U
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PARTIAL E09 UTILITY PLAN	C-E09-U
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PARTIAL E10 SITE PLAN	C-E10-S
PARTIAL E10 UTILITY PLAN	C-E10-U
PARTIAL F01 GRADING PLAN	C-F01-G
PARTIAL F01 SITE PLAN	C-F01-S
PARTIAL F01 UTILITY PLAN	C-F01-U
PARTIAL F02 UTILITY PLAN	C-F02-U
PARTIAL F03 UTILITY PLAN	C-F03-U
PARTIAL F04 UTILITY PLAN	C-F04-U
PARTIAL F05 UTILITY PLAN	C-F05-U
PARTIAL F06 UTILITY PLAN	C-F06-U
PARTIAL F07 UTILITY PLAN	C-F07-U
PARTIAL F08 UTILITY PLAN	C-F08-U
PARTIAL F09 GRADING PLAN	C-F09-G
PARTIAL F09 SITE PLAN	C-F09-S
PARTIAL F09 UTILITY PLAN	C-F09-U
PARTIAL F10 GRADING PLAN	C-F10-G
PARTIAL F10 SITE PLAN	C-F10-S
PARTIAL F10 UTILITY PLAN	C-F10-U
PARTIAL G01 GRADING PLAN	C-G01-G
PARTIAL G01 SITE PLAN	C-G01-S
PARTIAL G01 UTILITY PLAN	C-G01-U
PARTIAL G02 GRADING PLAN	C-G02-G
PARTIAL G02 SITE PLAN	C-G02-S
PARTIAL G03 GRADING PLAN	C-G03-G
PARTIAL G03 SITE PLAN	C-G03-S
PARTIAL G04 GRADING PLAN	C-G04-G
PARTIAL G04 SITE PLAN	C-G04-S
PARTIAL G04 UTILITY PLAN	C-G04-U
PARTIAL G09 GRADING PLAN	C-G09-G
PARTIAL G09 UTILITY PLAN	C-G09-U
PARTIAL G10 GRADING PLAN	C-G10-G
PARTIAL G10 SITE PLAN	C-G10-S
PARTIAL G10 UTILITY PLAN	C-G10-U
PARTIAL H01 UTILITY PLAN	C-H01-U
PARTIAL H04 GRADING PLAN	C-H04-G
PARTIAL H04 SITE PLAN	C-H04-S
PARTIAL H10 GRADING PLAN	C-H10-G
PARTIAL H10 SITE PLAN	C-H10-S
PARTIAL H10 UTILITY PLAN	C-H10-U
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PARTIAL J01 SITE PLAN	C-J01-S
PARTIAL J01 UTILITY PLAN	C-J01-U
PARTIAL J02 GRADING PLAN	C-J02-G
PARTIAL J02 SITE PLAN	C-J02-S
PARTIAL J02 UTILITY PLAN	C-J02-U
PARTIAL J03 GRADING PLAN	C-J03-G
PARTIAL J03 SITE PLAN	C-J03-S
PARTIAL J03 UTILITY PLAN	C-J03-U
PARTIAL J04 GRADING PLAN	C-J04-G
PARTIAL J04 SITE PLAN	C-J04-S
PARTIAL J04 UTILITY PLAN	C-J04-U
PARTIAL J05 GRADING PLAN	C-J05-G
PARTIAL J05 SITE PLAN	C-J05-S
PARTIAL J05 UTILITY PLAN	C-J05-U
PARTIAL J06 GRADING PLAN	C-J06-G
PARTIAL J06 SITE PLAN	C-J06-S
PARTIAL J06 UTILITY PLAN	C-J06-U
PARTIAL J07 GRADING PLAN	C-J07-G
PARTIAL J07 SITE PLAN	C-J07-S
PARTIAL J07 UTILITY PLAN	C-J07-U
PARTIAL J08 GRADING PLAN	C-J08-G
PARTIAL J08 SITE PLAN	C-J08-S
PARTIAL J08 UTILITY PLAN	C-J08-U
PARTIAL J09 GRADING PLAN	C-J09-G
PARTIAL J09 SITE PLAN	C-J09-S
PARTIAL J09 UTILITY PLAN	C-J09-U
PARTIAL J10 GRADING PLAN	C-J10-G
PARTIAL J10 SITE PLAN	C-J10-S
PARTIAL J10 UTILITY PLAN	C-J10-U
PARTIAL K05 GRADING PLAN	C-K05-G
PARTIAL K05 SITE PLAN	C-K05-S
PARTIAL L05 GRADING PLAN	C-L05-G
PARTIAL L05 SITE PLAN	C-L05-S
PARTIAL M05 GRADING PLAN	C-M05-G
PARTIAL M05 SITE PLAN	C-M05-S
ROAD PROFILES - 1	C-201
ROAD PROFILES - 2	C-202
ROAD PROFILES - 3	C-203
ROAD PROFILES - 4	C-204
ROAD PROFILES - 5	C-205
ROAD PROFILES - 6	C-206
ROAD PROFILES - 7	C-207
ROAD PROFILES - 8	C-208
ROAD PROFILES - 9	C-209
ROAD PROFILES - 10	C-210
ROAD PROFILES - 11	C-211
ROAD PROFILES - 12	C-212
ROAD PROFILES - 13	C-213
ROAD PROFILES - 14	C-214
ROAD PROFILES - 15	C-215
ROAD PROFILES - 16	C-216
ROAD PROFILES - 17	C-217
ROAD PROFILES - 18	C-218
ROAD PROFILES - 19	C-219
ROAD PROFILES - 20	C-220
ROAD PROFILES - 21	C-221
ROAD PROFILES - 22	C-222
ROAD PROFILES - 23	C-223
ROAD PROFILES - 24	C-224
ROAD PROFILES - 25	C-225
ROAD PROFILES - 26	C-226
ROAD PROFILES - 27	C-227
UTILITY PROFILE 1	C-301-ST
UTILITY PROFILE 2	C-302-ST
UTILITY PROFILE 3	C-303-ST
UTILITY PROFILE 4	C-304-ST
UTILITY PROFILE 5	C-305-ST
UTILITY PROFILE 6	C-306-ST
UTILITY PROFILE 7	C-307-ST
UTILITY PROFILE 8	C-308-ST
DOMESTIC WATER PROFILE 1	C-301-DW
DOMESTIC WATER PROFILE 2	C-302-DW
DOMESTIC WATER PROFILE 3	C-303-DW
DOMESTIC WATER PROFILE 4	C-304-DW
DOMESTIC WATER PROFILE 5	C-305-DW
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DOMESTIC WATER PROFILES 10	C-310-DW
DOMESTIC WATER PROFILES 11	C-311-DW
DOMESTIC WATER PROFILES 12	C-312-DW
DOMESTIC WATER PROFILES 13	C-313-DW
ROAD TYPICALS 1	C-401
ROAD TYPICALS 2	C-402
STANDARD TRENCH DETAILS	C-501
STANDARD STORMWATER DETAILS 1	C-506
STANDARD STORMWATER NOTES	C-507
STANDARD DOMESTIC WATER DETAILS 1	C-516
STANDARD DOMESTIC WATER DETAILS 2	C-517
STRUCTURE TABLES	C-601
WT STORMWATER DETAILS 1	C-701
WT STORMWATER DETAILS 2	C-702
WT STORMWATER DETAILS 3	C-703
WT STORMWATER DETAILS 4	C-704
WT STORMWATER DETAILS 5	C-705
WT STORMWATER DETAILS 6	C-706
WT STORMWATER DETAILS 7	C-707
SCOPE DELINEATION PLAN 1	C-730
SCOPE DELINEATION PLAN 2	C-731

FORD LAND

17000 ROTUNDA DR, 1ST FLOOR SOUTH
DEARBORN, MICHIGAN 48120-1168
USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

A/E OF RECORD LOGO

WADE TRIM
25251 Northline Rd.
Taylor, MI 48180
734.947.9700
www.wadetrim.com

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08/31/23	• BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT

A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

SHEET INDEX

SHEET NUMBER

G-003

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

PLOT DATE: 9/22/2023 10:35:56 AM SAVE DATE: 9/20/2023 3:56:45 PM FIELD, JAKE C:\Users\jfield\DC\ACCDocs\Walbridge Trim\FERD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\20250000-CPLTS-NDM-A02YWGE.dwg

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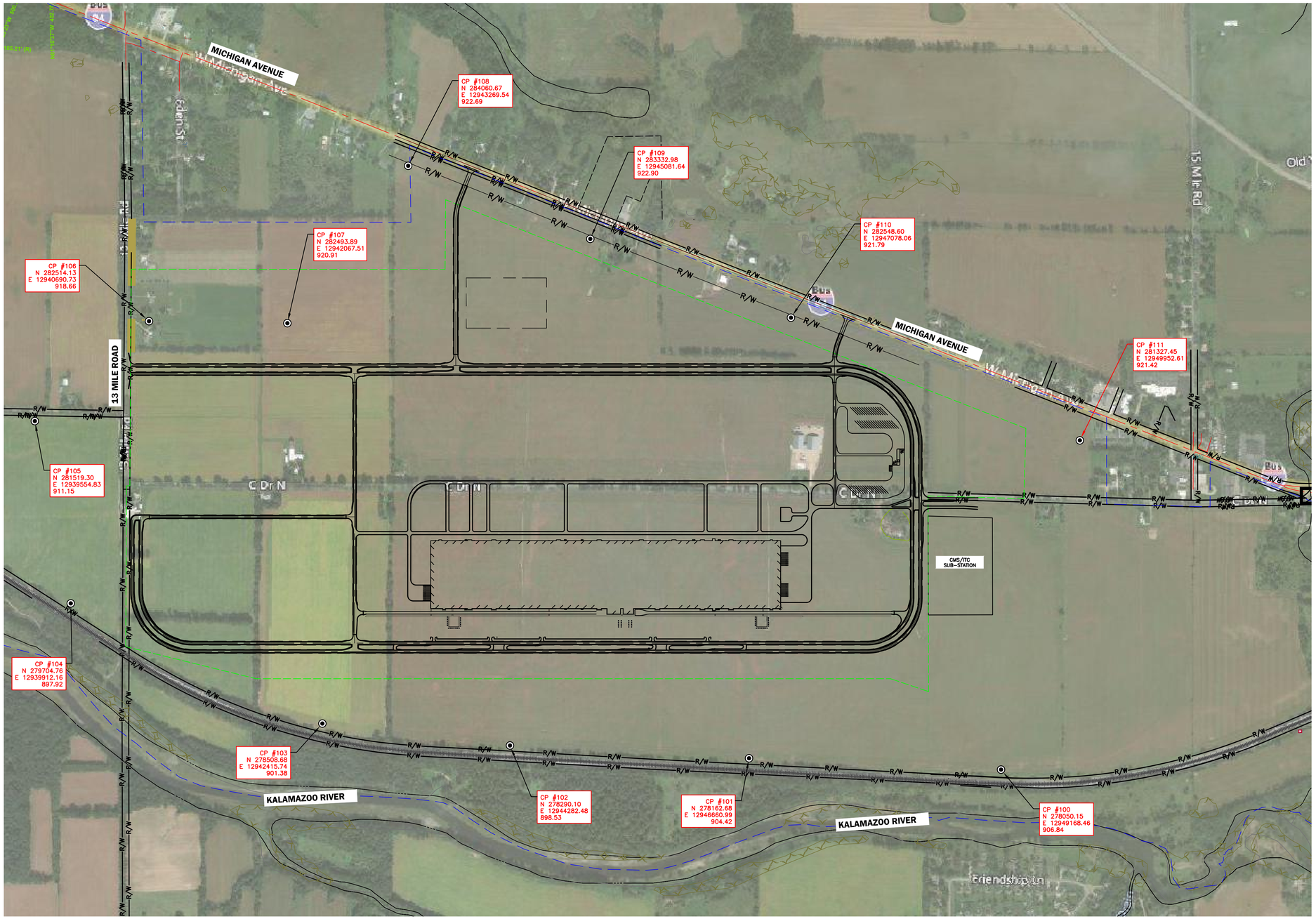
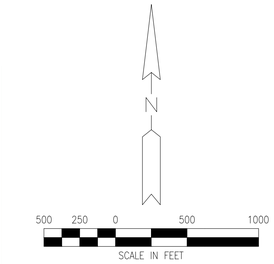




CONTROL INFORMATION:

HORIZONTAL DATUM:
NAD83, MI STATE PLANE COORDINATES, SOUTH ZONE, 2113 INTERNATIONAL FEET.

VERTICAL DATUM:
NAVD88 (2011)

NOTE:
COORDINATES SHOWN HEREON ARE GRID COORDINATES BASED ON THE ABOVE NOTED STATE PLANE COORDINATE SYSTEM.

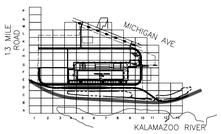
CONTROL POINTS CONSIST OF A 3 FOOT LONG BY 5/8" IRON ROD WITH RED TRAVERSE CAP SET FLUSH TO THE GROUND SURFACE.

PROPERTY BOUNDARY

Know what's **below.**
Call before you dig.

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45687
REGISTERED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION



KEY PLAN
SCALE: NO SCALE

FORD LAND
17000 ROTUNDA DR, 1ST FLOOR SOUTH
DEARBORN, MICHIGAN 48120-1168
USA

BLUE OVAL
BATTERY PARK
MICHIGAN
BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE
SURVEY SITE CONTROL PLAN

SHEET NUMBER
G-101

PLOT DATE: 9/22/2023 9:17:34 AM SAVE DATE: 9/22/2023 10:40:29 AM PIPER, ADAM C:\Users\apiper\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\2300090\001-SG-SURVEY SITE CONTROL-ADDWADE.dwg

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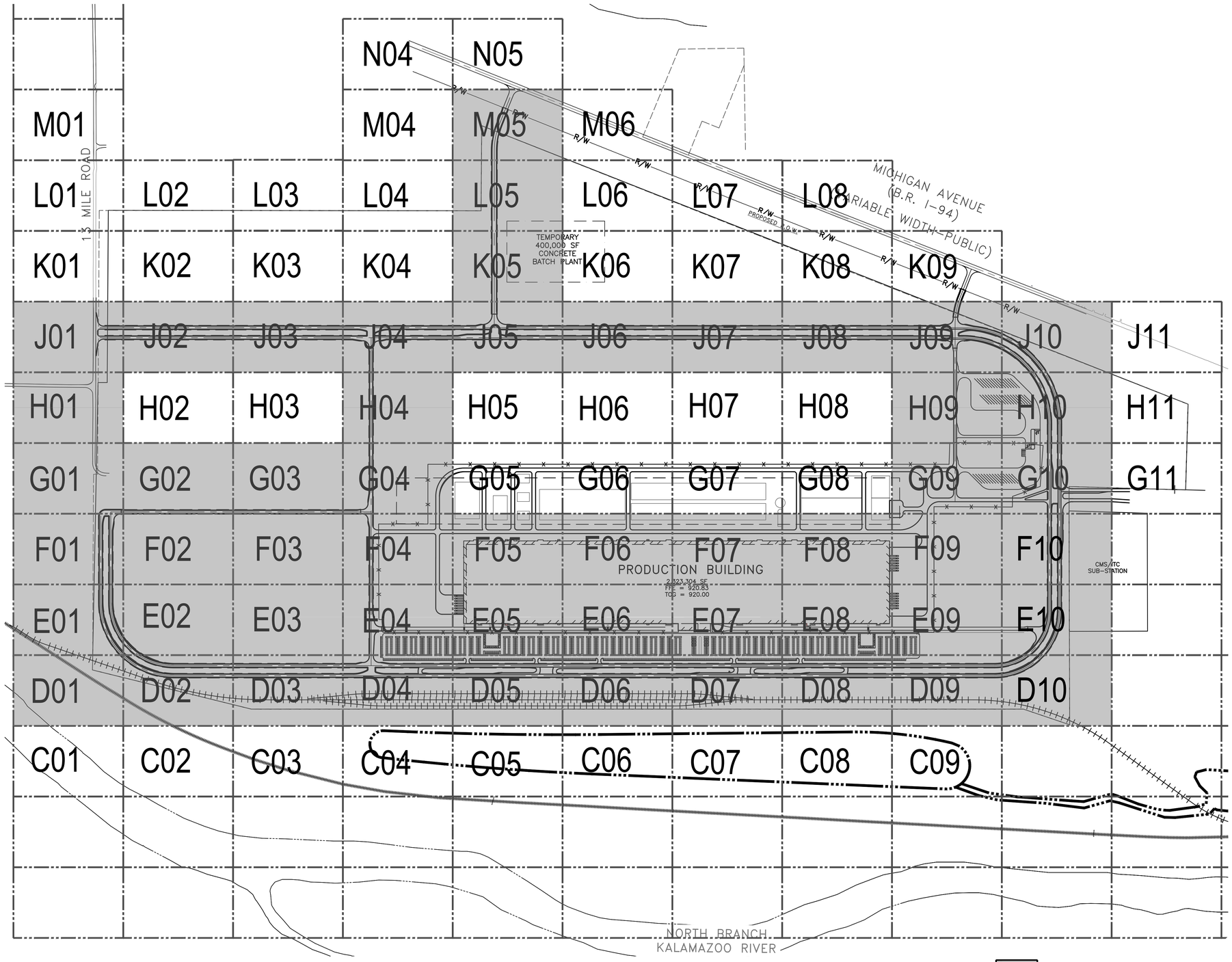

GRIDS USED IN THIS PROJECT.

Know what's **below.**
Call before you dig.

LEGAL DESCRIPTION:

FORD MOTOR COMPANY PARCEL, LEGAL DESCRIPTION OF LAND LOCATED IN SECTIONS 20, 28 & 29. T2S, R6W, MARSHALL TOWNSHIP, CALHOUN COUNTY, MICHIGAN.

BEGINNING AT THE W 1/4 CORNER SECTION 29, T2S, R6W MARSHALL TOWNSHIP, CALHOUN COUNTY, MICHIGAN,

THENCE S 89°58'17" E 33.00 FEET ALONG THE E–W 1/4 LINE OF SAID SECTION 29 TO THE EAST RIGHT–OF–WAY LINE OF 13 MILE ROAD: THENCE N 00°22'04" E 2157.32 FEET ALONG SAID EAST RIGHT–OF–WAY; THENCE S 89°55'40" E 3122.60 FEET; THENCE N 00°25'58" E 695.21 FEET; THENCE S 68°23'07" E 3245.71 FEET; THENCE S 68°35'27" E 2960.81 FEET; THENCE S 01°39'06" W 699.69 FEET; THENCE N 88°20'54" W 954.00 FEET ALONG THE E–W 1/4 LINE OF SECTION 28, T2S, R6W, MARSHALL TOWNSHIP, CALHOUN COUNTY, MICHIGAN & THE CENTERLINE OF C DRIVE NORTH (66.00 FEET WIDE) TO THE CENTER OF SAID SECTION 28; THENCE S 00°08'50" E 1947.49 FEET ALONG THE N–S 1/4 LINE OF SAID SECTION 28; THENCE N 71°18'28" W 397.60 FEET; THENCE N 90°00'00" W 6312.27 FEET; THENCE N 76°09'31" W 1337.71 FEET; THENCE N 00°16'51" E 1599.81 FEET ALONG THE WEST LINE OF SAID SECTION 29 TO THE POINT OF BEGINNING. BEING A PART SECTIONS 20, 28 & 29, T2S, R6W, MARSHALL TOWNSHIP, CALHOUN COUNTY, MICHIGAN AND CONTAINING 731.40 ACRES OF LAND, MORE OR LESS. BEING SUBJECT TO THE RIGHTS OF THE PUBLIC OVER THAT PORTION OF LAND AS OCCUPIED BY C DRIVE NORTH (66.00 FEET WIDE). BEING SUBJECT TO EASEMENTS AND RESTRICTIONS OF RECORD, IF ANY.

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

0 100 200 400 Feet
1" = 200'

NORTH

FORD LAND
17000 ROTUNDA DR, 1ST FLOOR SOUTH
DEARBORN, MICHIGAN 48120-1168
USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

EXISTING SITE
DATA PLAN

SHEET NUMBER

G-102

C:\Users\pipera\OCA\CDocs\Wade Trim\FRD\2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\G0000-ACTIVE-G-ALL-SHEET.dwg

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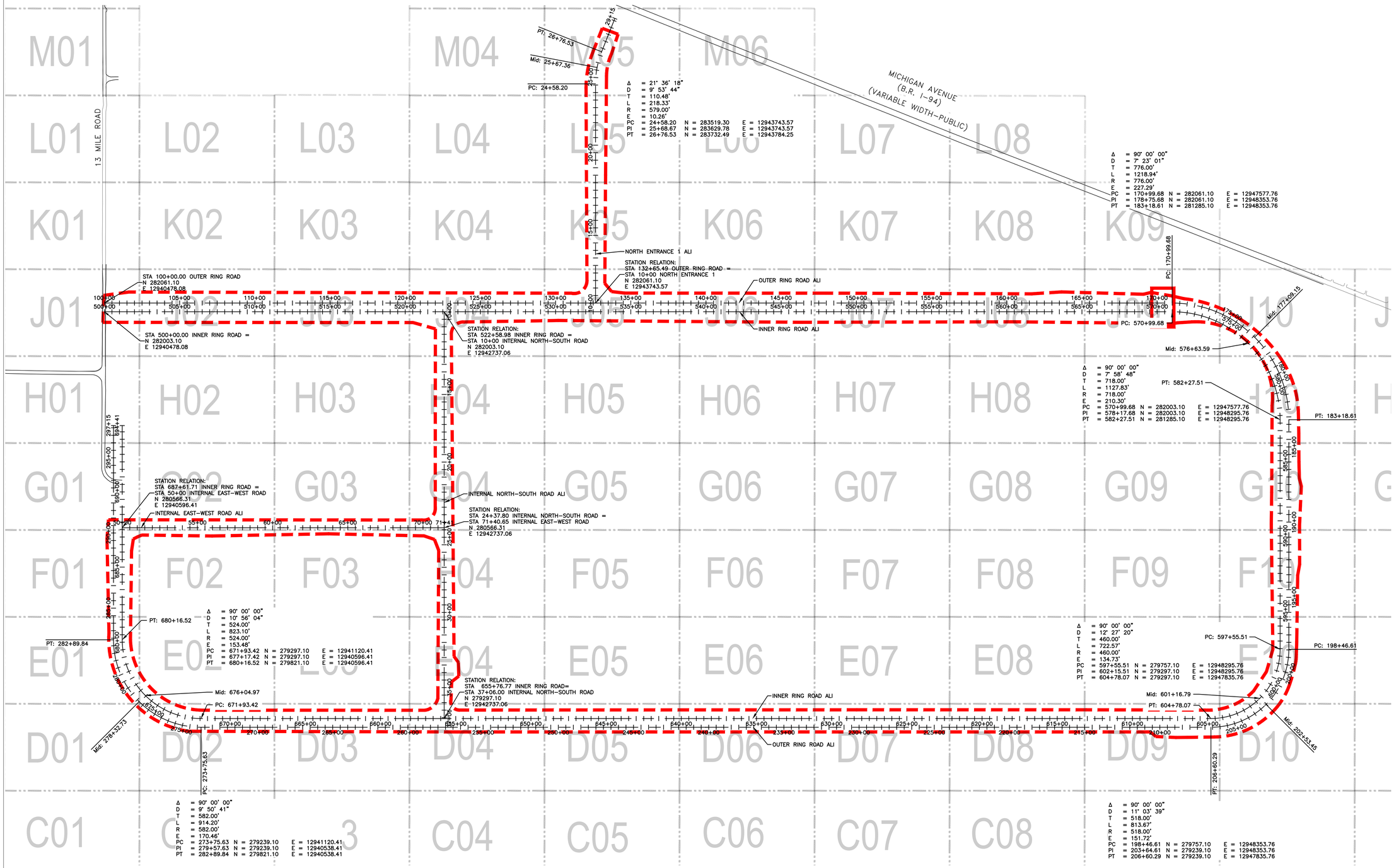

PROPOSED LEGEND

PROPOSED LIMITS OF GRADING

NOT FOR CONSTRUCTION

0 150 300 600 Feet 1" = 300'

NORTH

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
REGISTERED PROFESSIONAL ENGINEER

FORDLAND

17000 ROTUNDA DR, 1ST FLOOR SOUTH
DEARBORN, MICHIGAN 48120-1168
USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

ROADWAY ALIGNMENT PLAN

SHEET NUMBER

G-103

PLOT DATE: 9/22/2023 9:16:10 AM SAVE DATE: 9/21/2023 1:23:22 PM PIPER, ADAM C:\Users\apiper\DCACC\Docs\Wade Trim\FRD20111-05P Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\2000000-CPLTSHGNO-PLOW+ADW.dwg

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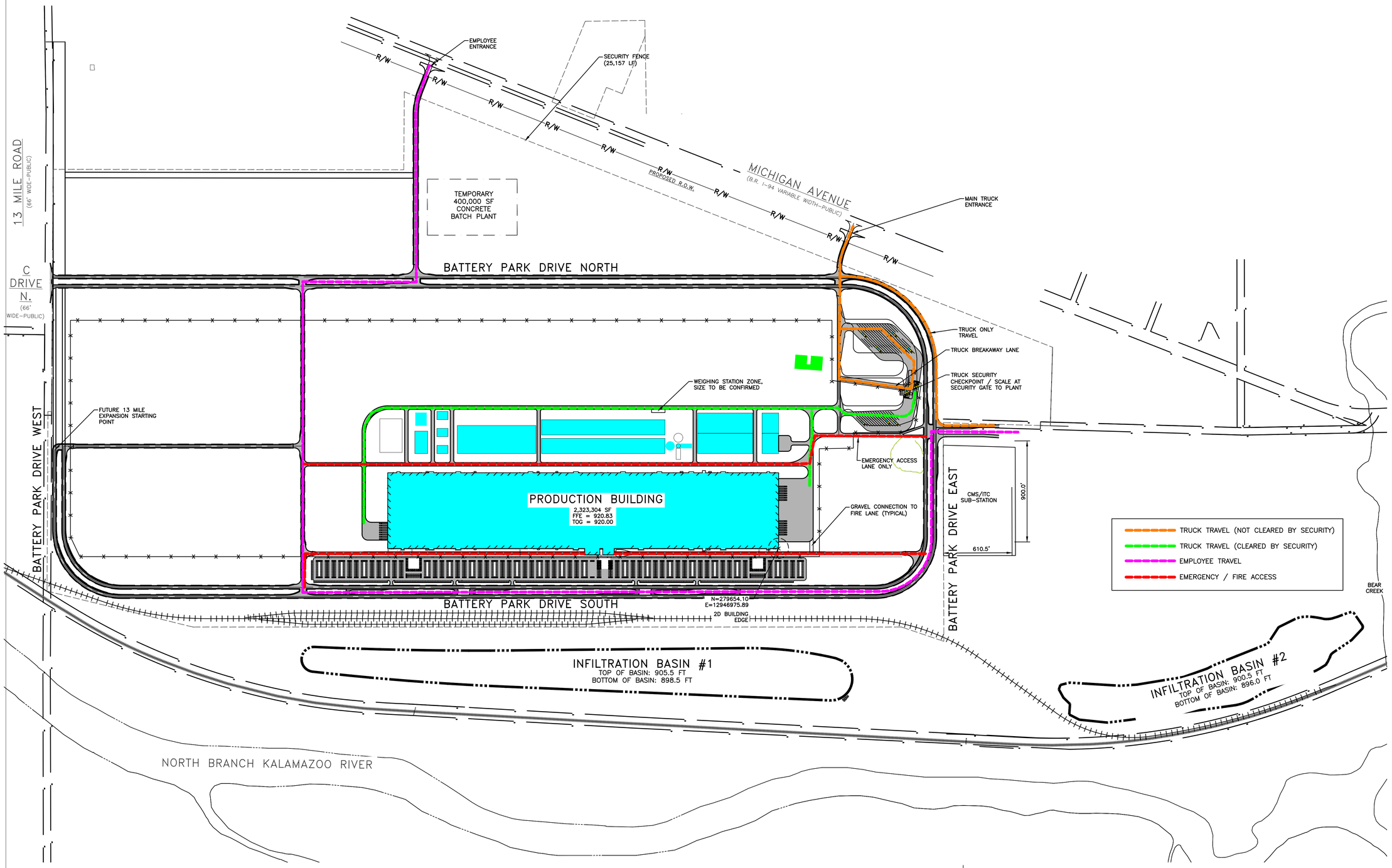


PROPOSED LEGEND

- PROPERTY LINE
- EXISTING STRUCTURE
- PROPOSED STRUCTURE
- PROPOSED ROADWAY (PAVEMENT/SURFACE)

Know what's **below.** **Call** before you dig.

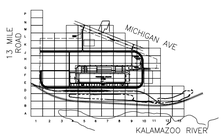
SITE LOGISTICS

PARCEL ID # 53-281-021-00
13700 WEST MICHIGAN AVE

400 200 0 400 800
SCALE IN FEET

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
REGISTERED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION



KEY PLAN
SCALE: NO SCALE

FORD LAND
17000 ROTUNDA DR, 1ST FLOOR SOUTH
DEARBORN, MICHIGAN 48120-1168
USA

BLUE OVAL
BATTERY PARK
MICHIGAN
BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

TRUCK, EMPLOYEE, AND EMERGENCY VEHICLE TRAVEL PATHS

SHEET NUMBER

G-104

PLOT DATE: 9/22/2023 9:18:43 AM
SAVE DATE: 9/21/2023 11:28:15 AM
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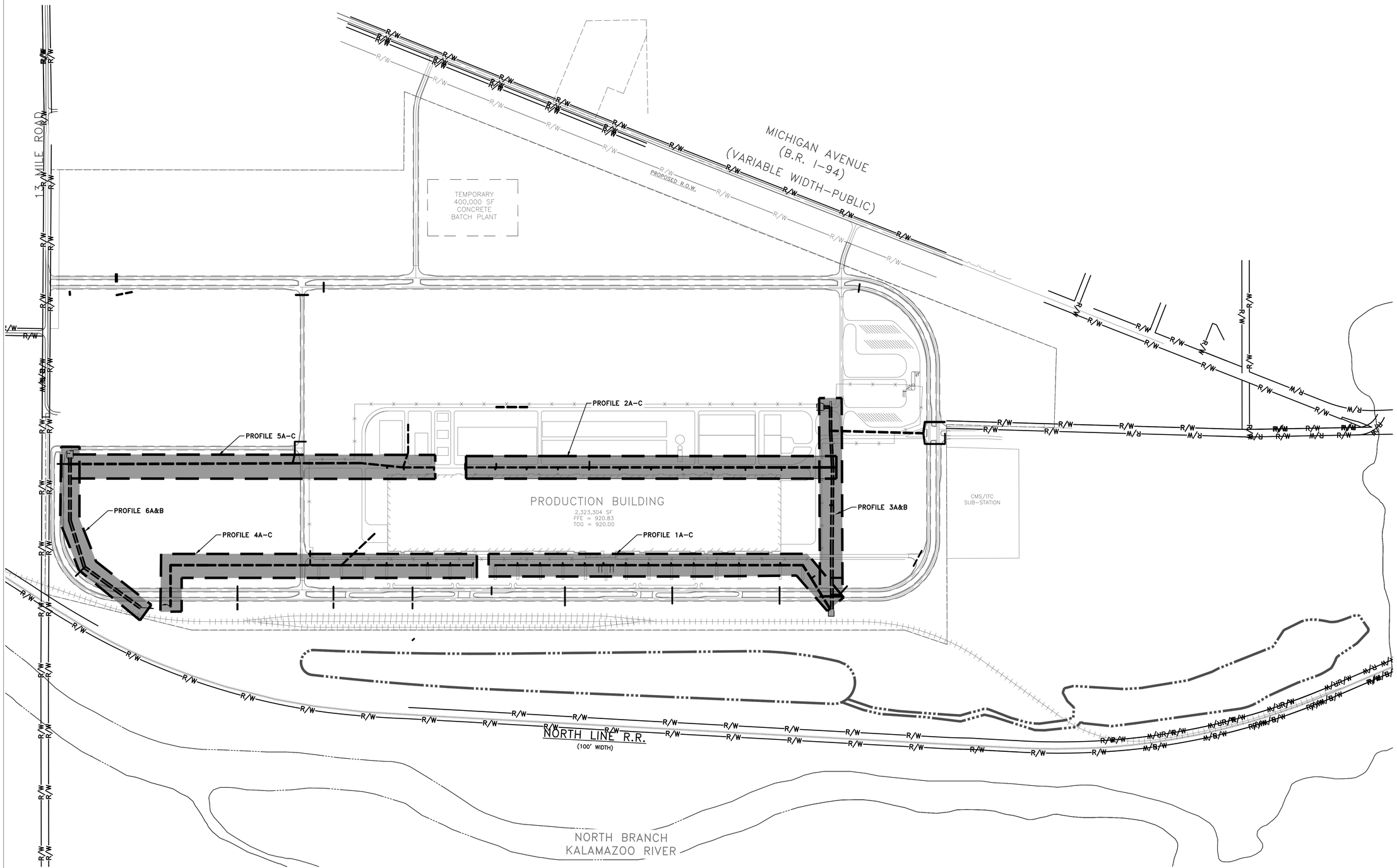

NOT FOR CONSTRUCTION

0 200 400 800 Feet — 1" = 400'

NORTH

FORD LAND

17000 ROTUNDA DR, 1ST FLOOR SOUTH
DEARBORN, MICHIGAN 48120-1168
USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

STORMWATER UTILITY ALIGNMENT PLAN

SHEET NUMBER

G-105

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PLOT DATE 9/22/2023 9:19:05 AM

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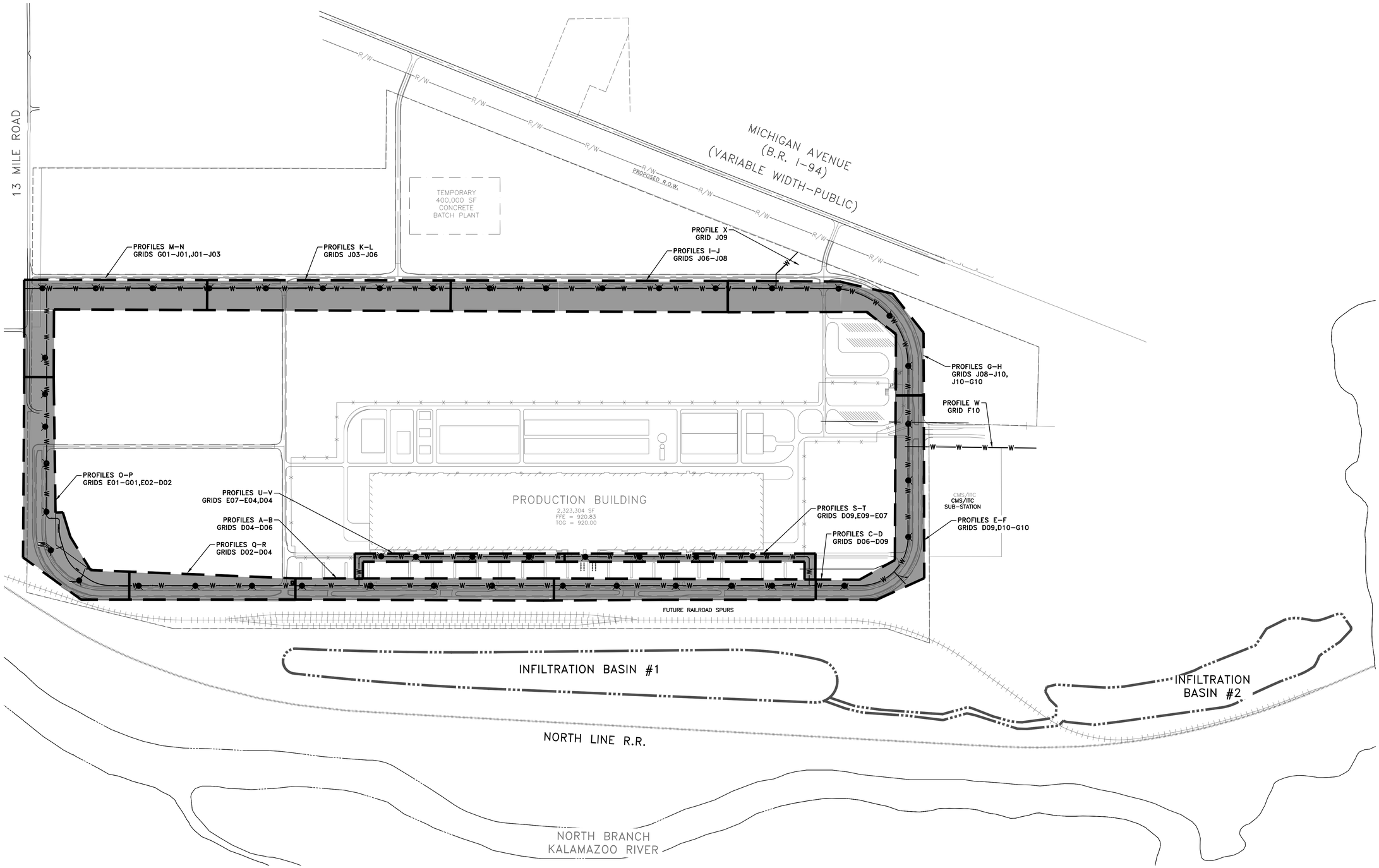

NOT FOR CONSTRUCTION

0 200 400 800 Feet 1" = 400'

FORDLAND

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USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

DOMESTIC WATER
UTILITY ALIGNMENT PLAN

SHEET NUMBER

G-106

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PIPER, ADAM

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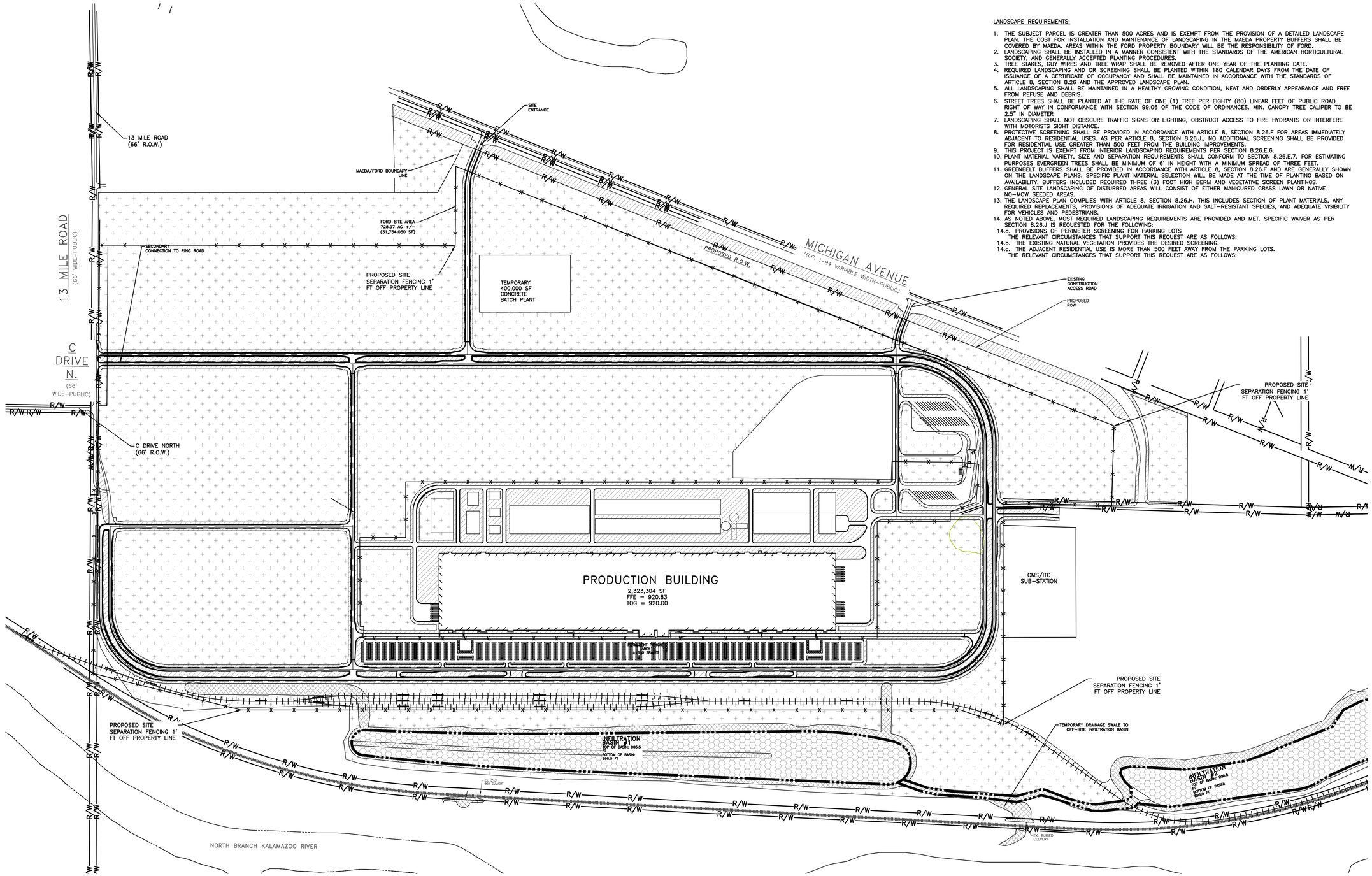

LANDSCAPE REQUIREMENTS:

1. THE SUBJECT PARCEL IS GREATER THAN 500 ACRES AND IS EXEMPT FROM THE PROVISION OF A DETAILED LANDSCAPE PLAN. THE COST FOR INSTALLATION AND MAINTENANCE OF LANDSCAPING IN THE MAEDA PROPERTY BUFFERS SHALL BE COVERED BY MAEDA. AREAS WITHIN THE FORD PROPERTY BOUNDARY WILL BE THE RESPONSIBILITY OF FORD.
2. LANDSCAPING SHALL BE INSTALLED IN A MANNER CONSISTENT WITH THE STANDARDS OF THE AMERICAN HORTICULTURAL SOCIETY, AND GENERALLY ACCEPTED PLANTING PROCEDURES.
3. TREE STAKES, GUY WIRES AND TREE WRAP SHALL BE REMOVED AFTER ONE YEAR OF THE PLANTING DATE.
4. REQUIRED LANDSCAPING AND OR SCREENING SHALL BE PLANTED WITHIN 180 CALENDAR DAYS FROM THE DATE OF ISSUANCE OF A CERTIFICATE OF OCCUPANCY AND SHALL BE MAINTAINED IN ACCORDANCE WITH THE STANDARDS OF ARTICLE 8, SECTION 8.26 AND THE APPROVED LANDSCAPE PLAN.
5. ALL LANDSCAPING SHALL BE MAINTAINED IN A HEALTHY GROWING CONDITION, NEAT AND ORDERLY APPEARANCE AND FREE FROM REFUSE AND DEBRIS.
6. STREET TREES SHALL BE PLANTED AT THE RATE OF ONE (1) TREE PER EIGHTY (80) LINEAR FEET OF PUBLIC ROAD RIGHT OF WAY IN CONFORMANCE WITH SECTION 99.06 OF THE CODE OF ORDINANCES. MIN. CANOPY TREE CALIPER TO BE 2.5" IN DIAMETER
7. LANDSCAPING SHALL NOT OBSCURE TRAFFIC SIGNS OR LIGHTING, OBSTRUCT ACCESS TO FIRE HYDRANTS OR INTERFERE WITH MOTORISTS SIGHT DISTANCE.
8. PROTECTIVE SCREENING SHALL BE PROVIDED IN ACCORDANCE WITH ARTICLE 8, SECTION 8.26.F FOR AREAS IMMEDIATELY ADJACENT TO RESIDENTIAL USES. AS PER ARTICLE 8, SECTION 8.26.J., NO ADDITIONAL SCREENING SHALL BE PROVIDED FOR RESIDENTIAL USE GREATER THAN 500 FEET FROM THE BUILDING IMPROVEMENTS.
9. THIS PROJECT IS EXEMPT FROM INTERIOR LANDSCAPING REQUIREMENTS PER SECTION 8.26.E.6.
10. PLANT MATERIAL VARIETY, SIZE AND SEPARATION REQUIREMENTS SHALL CONFORM TO SECTION 8.26.E.7. FOR ESTIMATING PURPOSES EVERGREEN TREES SHALL BE MINIMUM OF 6' IN HEIGHT WITH A MINIMUM SPREAD OF THREE FEET.
11. GREENBELT BUFFERS SHALL BE PROVIDED IN ACCORDANCE WITH ARTICLE 8, SECTION 8.26.F AND ARE GENERALLY SHOWN ON THE LANDSCAPE PLANS. SPECIFIC PLANT MATERIAL SELECTION WILL BE MADE AT THE TIME OF PLANTING BASED ON AVAILABILITY. BUFFERS INCLUDED REQUIRED THREE (3) FOOT HIGH BERM AND VEGETATIVE SCREEN PLANTINGS.
12. GENERAL SITE LANDSCAPING OF DISTURBED AREAS WILL CONSIST OF EITHER MANICURED GRASS LAWN OR NATIVE NO-MOW SEEDED AREAS.
13. THE LANDSCAPE PLAN COMPLIES WITH ARTICLE 8, SECTION 8.26.H. THIS INCLUDES SECTION OF PLANT MATERIALS, ANY REQUIRED REPLACEMENTS, PROVISIONS OF ADEQUATE IRRIGATION AND SALT-RESISTANT SPECIES, AND ADEQUATE VISIBILITY FOR VEHICLES AND PEDESTRIANS.
14. AS NOTED ABOVE, MOST REQUIRED LANDSCAPING REQUIREMENTS ARE PROVIDED AND MET. SPECIFIC WAIVER AS PER SECTION 8.26.J IS REQUESTED FOR THE FOLLOWING:
    - 14.a. PROVISIONS OF PERIMETER SCREENING FOR PARKING LOTS
      THE RELEVANT CIRCUMSTANCES THAT SUPPORT THIS REQUEST ARE AS FOLLOWS:
    - 14.b. THE EXISTING NATURAL VEGETATION PROVIDES THE DESIRED SCREENING.
    - 14.c. THE ADJACENT RESIDENTIAL USE IS MORE THAN 500 FEET AWAY FROM THE PARKING LOTS.
      THE RELEVANT CIRCUMSTANCES THAT SUPPORT THIS REQUEST ARE AS FOLLOWS:

LEGEND

- FESCUE LAWN LOW-MAINTENANCE MIX
- NATIVE NO-MOW MIX
- SLOPE STABILIZATION MIX
- INFILTRATION BASIN MIX

NOTES

1. FESCUE LAWN LOW-MAINTENANCE AND NATIVE NO-MOW MIXES TO RECEIVE 4" ON-SITE TOPSOIL.
2. INFILTRATION BASIN AND SLOPE STABILIZATION MIXES TO RECEIVE 4" OFF-SITE TOPSOIL OR PROGANICS AS AN ALTERNATE AS LONG AS IT MEETS PERFORMANCE SPECIFICATIONS FOR STANDARD SEEDING AND TOPSOIL APPLICATION.
3. SEE L1.3 FOR SEED MIX SCHEDULES.

NORTH

OVERALL SEEDING PLAN

SCALE: 1:400

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
REGISTERED PROFESSIONAL ENGINEER

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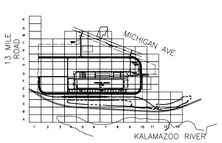

KEY PLAN

SCALE: NO SCALE

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FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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DATE	ISSUED FOR
04/14/23	• SITE PLAN PRE APPLICATION
04/25/23	• SITE PLAN APPROVAL
06/02/23	• BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT
08/31/23	• BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT

A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

OVERALL SEEDING PLAN

SHEET NUMBER

L1.0

PLOT DATE: 9/22/2023 9:20:10 AM
SAVE DATE: 9/22/2023 10:25:02 AM
PIPER, ADAM
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PLANT SCHEDULE OVERALL

TREES	QTY	BOTANICAL NAME	COMMON NAME	ROOT	CAL	HEIGHT	REMARKS
AL2	187	Amelanchier laevis	Allegheny Serviceberry	B&B		7-8` Ht.	Multi-stem
CE	93	Cercis canadensis	Eastern Redbud	B&B		7-8` Ht.	Multi-stem
LG	24	Liriodendron tulipifera 'Integrifolium'	Un-lobed Tulip Tree	B&B	2-2.5" Cal.		
PG	281	Picea glauca	White Spruce	B&B		7-8` Ht.	Unsheared
PS	276	Pinus strobus	White Pine	B&B		7-8` Ht.	Unsheared
PA2	116	Platanus x acerifolia	London Plane Tree	B&B	2-2.5" Cal.		
TP	20	Thuja plicata	Western Red Cedar	B&B		7-8` Ht.	Unsheared
UC	24	Ulmus x 'Frontier'	Frontier Elm	B&B	2-2.5" Cal.		

13 MILE ROAD (66' WIDE-PUBLIC)

C DRIVE N. (66' WIDE-PUBLIC)

13 MILE ROAD (66' R.O.W.)

EXISTING HEDGEROWS PROVIDES GREENBELT BUFFER AND STREET TREE REQUIREMENTS

MAEDA/FORD BOUNDARY LINE

FORD SITE AREA 728.97 AC +/- (31,754,050 SF)

SECONDARY CONNECTION TO RING ROAD

75' WIDE PLANTED GREENBELT BUFFER, TYP.

STREET TREES 80' O.C., TYP.

C DRIVE NORTH (66' R.O.W.)

ENTRANCE SIGN INTO SITE (MAX 60 SFT PER ORDINANCE), SEE DETAIL THIS SHEET.

SITE ENTRANCE

MICHIGAN AVENUE (B.R. I-94 VARIABLE WIDTH-PUBLIC)

PROPOSED R.O.W.

TEMPORARY 400,000 SF CONCRETE BATCH PLANT

EXISTING CONSTRUCTION ACCESS ROAD

PROPOSED ROW

75' WIDE PLANTED GREENBELT BUFFER, TYP. SEE BERM DETAIL SHEET C5.0

ENTRANCE SIGN INTO SITE (MAX 60 SFT PER ORDINANCE), SEE DETAIL THIS SHEET.

PRODUCTION BUILDING
2,323,304 SF
FFE = 920.83
TOG = 920.00

SNOW STORAGE WITHIN BIORETENTION AREAS, TYP.

75' WIDE PLANTED GREENBELT BUFFER ON BERM, TYP.

CMS/ITC SUB-STATION

INFILTRATION BASIN #1
TOP OF BASIN: 900.5 FT
BOTTOM OF BASIN: 896.5 FT

INFILTRATION BASIN #2
TOP OF BASIN: 900.5 FT
BOTTOM OF BASIN: 896.0 FT

TEMPORARY DRAINAGE SWALE TO OFF-SITE INFILTRATION BASIN

ALL EXISTING TREES AND VEGETATION TO REMAIN WITHIN FUTURE CONSERVATION EASEMENT AS A SCREENING BUFFER

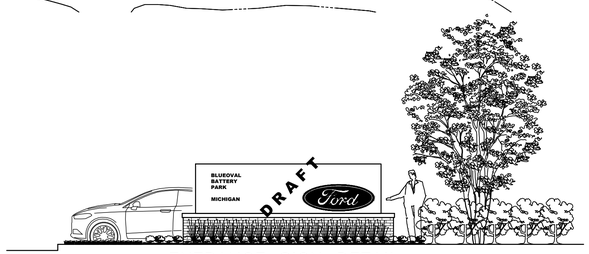
EX. 5'x7' BOX CULVERT

EX. BURIED CULVERT

NORTH BRANCH KALAMAZOO RIVER

NORTH

OVERALL PLANTING PLAN
SCALE: 1:400



ENTRANCE SIGN DETAIL
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STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45687
LICENSED PROFESSIONAL ENGINEER

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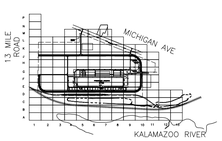

KEY PLAN
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MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

OVERALL PLANTING PLAN

SHEET NUMBER

L1.1

PLOT DATE: 9/22/2023 10:41:25 AM SAVE DATE: 9/11/2023 10:15:12 AM FIELD_JAKE

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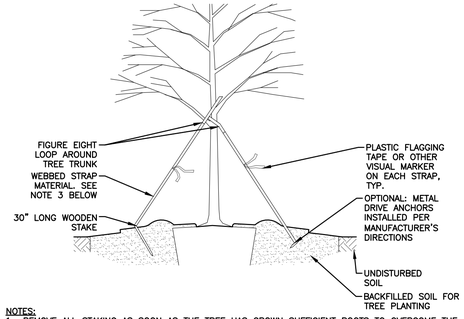
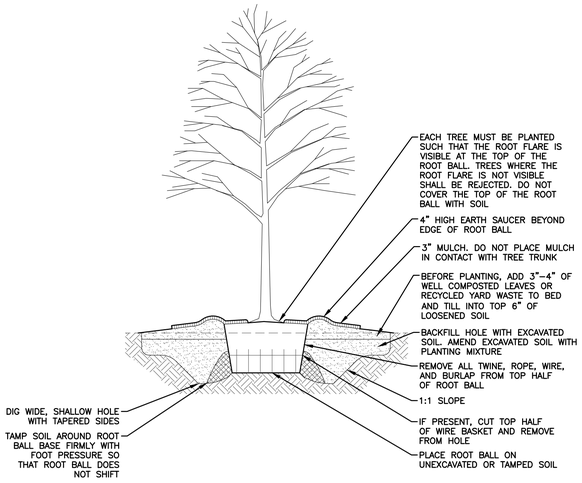


NOTES:

1. REMOVE ALL STAKING AS SOON AS THE TREE HAS GROWN SUFFICIENT ROOTS TO OVERCOME THE PROBLEM THAT REQUIRED THE TREE TO BE STAKED. STAKES SHALL BE REMOVED NO LATER THAN THE END OF THE FIRST GROWING SEASON AFTER PLANTING.
2. TIGHTEN WEBBED STRAP MATERIAL ONLY ENOUGH TO KEEP FROM SLIPPING. ALLOW FOR SOME TRUNK MOVEMENT. INSTALL THREE STRAPS PER TREE, SPACED EVENLY AROUND THE TRUNK. INSTALL AS LOW ON TRUNK AS POSSIBLE.
3. WEBBED STRAP TO BE ARBORTIE OR APPROVED EQUAL
4. TREES NORMALLY DO NOT NEED TO BE STAKED AND STAKING CAN BE HARMFUL TO THE TREE. STAKING SHOULD BE DONE ONLY WITH THE APPROVAL OF THE LANDSCAPE ARCHITECT IF IT IS EXPECTED THAT THE TREE WILL NOT BE ABLE TO SUPPORT ITSELF. THE FOLLOWING ARE REASONS WHY TREES DO NOT REMAIN STRAIGHT.
   - 4.1. TREES WITH POOR-QUALITY ROOT BALLS OR ROOT BALLS THAT HAVE BEEN CRACKED OR DAMAGED . REJECT RATHER THAN STAKE.
   - 4.2. TREES THAT HAVE GROWN TOO CLOSE TOGETHER IN THE NURSERY, RESULTING IN WEAK TRUNKS. REJECT RATHER THAN STAKE.
   - 4.3. PLANTING PROCEDURES THAT DO NOT ADEQUATELY TAMP SOILS ARE THE ROOT BALL. CORRECT THE PLANTING PROCEDURE.
   - 4.4. ROOT BALLS PLACED ON VERY SOFT SOIL. TAMP SOILS UNDER ROOT BALL PRIOR TO PLANTING.
   - 4.5. ROOT BALLS WITH VERY SANDY SOIL OR VERY WET SOIL. STAKING ADVISABLE.
   - 4.6. TREES LOCATED IN A PLACE OF EXTREMELY WINDY CONDITIONS. STAKING ADVISABLE.

TREE STAKING DETAIL

NOT TO SCALE



NOTES:

1. FOR CONTAINER-GROWN TREES, USE FINGERS OR SMALL HAND TOOLS TO PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL; THEN CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OR THE CONTAINER.
2. AFTER DIGGING HOLE, FILL WITH WATER TO CONFIRM THAT WATER DRAINS OUT OF THE SOIL. IF HOLE DOES NOT PERC, DO NOT PLANT TREE. NOTIFY LANDSCAPE ARCHITECT FOR DIRECTION.
3. THOROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL IMMEDIATELY AFTER PLANTING.
4. THE PLANTING PROCESS IS SIMILAR FOR DECIDUOUS AND EVERGREEN TREES.
5. PURCHASE TREE WITH ONE CENTRAL LEADER. DO NOT PRUNE TREE AT PLANTING EXCEPT AS DIRECTED BY LANDSCAPE ARCHITECT.
6. SET TREE PLUMB WITH VERTICAL TRUNK.
7. STAKE TREES ONLY UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT SEE DETAIL ON SHEET X.
8. WRAP TREES ONLY UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT.

TREE PLANTING DETAIL

NOT TO SCALE

NOTES:

STAKE ALL EVERGREEN TREES UNDER 12' HIGH

GUY ALL EVERGREEN TREES 12' HIGH AND OVER

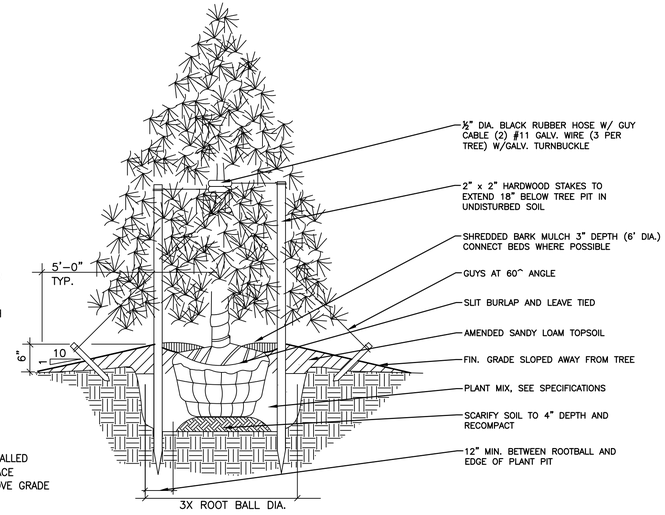
NEVER CUT CENTRAL LEADER

PRUNE ONLY TO REMOVE DEAD OR BROKEN BRANCHES

SET STAKES VERTICAL AND EVENLY SPACED

FIRST LATERAL ROOTS SHALL BE INSTALLED EVEN WITH SURROUNDING GRADE. PLACE ROOT BALL WITH ROOT FLARE 1" ABOVE GRADE

TREES WITH CIRCLING ROOTS SHALL BE REJECTED



EVERGREEN TREE DETAIL

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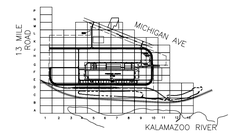

KEY PLAN

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IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

LANDSCAPE DETAILS 1

SHEET NUMBER

L1.2

PLOT DATE: 9/22/2023 10:41:31 AM SAVE DATE: 9/7/2023 10:15:12 AM FIELD. JAKE

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NATIVE NO-MOW MIX

Botanical Name	Common Name	PLS LBS/ACRE
GRASSES, SEDGES, & RUSHES		
Bouteloua curtipendula	Side-oats Grama	52.50
Carex bicknellii	Bicknell's Sedge	2
Carex brevior	Plains Oval Sedge	2
Juncus tenius	Path Rush	0.50
Koeleria cristata	June Grass	2
Sporobolus heterolepis	Prairie Dropseed	5
Juncus tenuis	Path Rush	1
Panicum virgatum	Switchgrass	4
Schizachyrium scoparium	Little Bluestem	16
PERENNIALS		
Achillea millefolium	Yarrow	0.50
Allium cernuum	Nodding Wild Onion	1
Asclepias tuberosa	Butterfly Milkweed	0.50
Aster azureus	Sky Blue Aster	0.50
Cassia fasciculata	Partridge Pea	12
Coreopsis lanceolata	Lance-leaf Coreopsis	8
Liatris aspera	Rough Blazingstar	0.25
Monarda punctata	Horsemint	0.50
Penstemon hirsutus	Hairy Beardtongue	0.50
Petalostemum purpureum	Purple Prairie Clover	4
Potentilla arguta	Prairie Cinquefoil	0.50
Rudbeckia hirta	Black-eyed Susan	5
Solidago nemoralis	Old-field Goldenrod	0.25
Verbena stricia	Hoary Vervain	1
ANNUALS		
Lolium multiforum	Annual Rye	80
Avena sativa	Seed Oats	320

TOTAL SEEDING RATE: 31.25 LBS PER ACRE
4 LBS GRASSES – 2.25 LBS FORBS – 25 LBS NURSE CROP
43 NATIVE SEEDS PER SQ FT

FESCUE LAWN LOW-MAINTENANCE MIX

Botanical Name	Common Name	PLS LBS/ACRE
GRASSES		
Festuca brevipila	Hard Fescue	40
Festuca ovina	Sheep Fescue	30
Festuca rubra commutata	Chewings Fescue	70
Festuca rubra arenaria	Creeping Red Fescue	60

RECOMMENDED SEEDING RATE: 200 LBS PER ACRE
4 VARIETIES OF NON-NATIVE TALL FESCUES
~2,500 SEEDS PER SQ FT

SLOPE STABILIZATION MIX

Botanical Name	Common Name	PLS LBS/ACRE
GRASSES, SEDGES & RUSHES		
Andropogon gerardii	Big Bluestem	12.00
Bouteloua curtipendula	Side-oats Grama	12
Carex molesta	Field Oval Sedge	1
Carex vulpinoidea	Fox Sedge	1
Deschampsia cespitosa	Tufted Hairgrass	4
Elymus canadensis	Canada Wild Rye	16.00
Elymus virginicus	Virginia Wild Rye	16
Juncus tenuis	Path Rush	5
Schizachyrium scoparium	Little Bluestem	1
Sorghastrum nutans	Indian Grass	4
Sporobolus cryptandrus	Sand Dropseed	4
TEMPORARY GRASS COVER		
Lolium multiflorum	Annual Ryegrass	128
Avena sativa	Seed Oats	512.00

TOTAL SEEDING RATE: 49.69 LBS PER ACRE
6.69 LBS GRASSES – 40 LBS NURSE CROP
71 NATIVE SEEDS PER SQ FT

INFILTRATION BASIN MIX

Botanical Name	Common Name	PLS LBS/ACRE
GRASSES		
Bouteloua hirsuta	Blue Grama Grass	1
Festuca ovina	Sheeps Fescue	1
Helictotrichon sempervirens	Blue Oat Grass	0.50
Schizachyrium scoparium	Little Bluestem	1.50
Sporobolus heterolepis	Prairie Dropseed	2

SOIL PREPARATION: ROUGH GRADED
DISTRIBUTION TYPE: BROADCAST SEEDING
COVER CROP: Avena sativa – COMMON OATS AT 30 LBS/ACRE

LANDSCAPE NOTES

1. ALL PLANTS TO BE INSTALLED IN ACCORDANCE WITH AMERICAN ASSOCIATION OF NURSERYMEN LANDSCAPE STANDARDS.
2. CONTRACTOR SHALL PROVIDE A PLANTING MIXTURE MEETING THE FOLLOWING REQUIREMENTS. IF THE ENGINEER HAS ANY CONCERNS WITH THE QUALITY OF THE PLANTING MIXTURE, THE ENGINEER SHALL BE ALLOWED TWO WEEKS TO OBTAIN SOIL TEST TO DETERMINE SPECIFICATION COMPLIANCE. NO PLANT MATERIAL SHALL BE PLANTED PRIOR TO ENGINEER APPROVAL OF PLANTING MIXTURE. ALL PLANT MATERIAL SHALL BE MAINTAINED BY THE CONTRACTOR IN A VIGOROUS GROWING CONDITION DURING THIS TIME AT NO ADDITIONAL COST.
3. SPACING OF PLANT MATERIALS SHALL BE AS SHOWN ON DRAWING OR ON PLANT LIST. THE ENGINEER SHALL REVIEW THE PLACEMENT OF PLANT MATERIAL PRIOR TO AND AFTER INSTALLATION, AND RESERVES THE RIGHT TO ADJUST LAYOUT TO ACCOMMODATE SITE CONDITIONS AND DESIGN INTENT.
4. ALL PLANT MATERIALS SHALL CONFORM TO PLANT SCHEDULES. SIZES SHALL BE THE MINIMUM STATED ON THE PLANT LIST OR LARGER. ALL MEASUREMENTS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "A.A.N. STANDARDS FOR NURSERY STOCK."
5. NO PLANT SHALL BE PUT INTO THE GROUND BEFORE ROUGH GRADING HAS BEEN FINISHED AND REVIEWED BY THE ENGINEER.
6. FINAL PLANT LOCATIONS SHALL BE MARKED BY CONTRACTOR THREE WORKING DAYS PRIOR TO PLANTING FOR ENGINEER REVIEW.
7. ALL PLANTED PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANTS ORIGINAL GRADE BEFORE DIGGING.
8. PLANT MATERIAL, ESPECIALLY EVERGREENS, TO BE PLANTED HIGHER THAN NORMAL WHEN HEAVY SOIL CONDITIONS (CLAY, ETC.) PREVAIL.
9. IF FOR ANY REASON ANY BALLED AND BURLAPED PLANT MATERIALS NEED TO BE STORED ON SITE LONGER THAN A 24-HOUR PERIOD, THEIR ROOT BALLS SHALL BE PROTECTED. ALL PLANTS SHALL BE THOROUGHLY WATERED EACH DAY THEY ARE STORED ON SITE. PLANTS MAY BE STORED ON SITE FOR A MAXIMUM OF TWO (2) WEEKS, OR 14 DAYS. ANY PLANTS ALLOWED TO DRY OUT AS DETERMINED BY THE ENGINEER WILL BE REJECTED.
10. NO CONTAINER GROWN STOCK WILL BE ACCEPTED IF IT IS ROOT BOUND. ALL WRAPPING MATERIALS MADE OF SYNTHETIC OR PLASTICS SHALL BE COMPLETELY REMOVED AT TIME OF PLANTING.
11. THE CONTRACTOR SHALL FILL PLANT PIT WITH PREPARED PLANT MIX TO ½ DEPTH OF ROOT BALL OR ROOT MASS, PACK FIRMLY, PUDDLE WITH WATER; THEN FOR BALLED AND BURLAPED MATERIAL, THE BURLAP AND ALL LACING (INCLUDING WIRE BASKET IF NECESSARY) SHALL BE REMOVED FROM THE UPPER 1/3 OF ROOTBALL, THEN FINISH BACKFILLING ADDING SOLID FERTILIZER TO THE PLANT MIX, PACK FIRMLY AND WATER. A SAUCER SHALL BE PLACED AROUND EVERY PLANT AND SHALL BE APPROVED PRIOR TO PLACEMENT OF ANY MULCH.
12. ALL DISTURBED LAWN AREAS SHALL BE RESTORED WITH 4-INCHES OF TOPSOIL, SPREAD, FINE GRADED, AND SEEDED/SODDED AS SPECIFIED. PRIOR TO INSTALLATION OF TOPSOIL, LOOSEN SUBGRADE TO A DEPTH OF 2 INCHES. THIS WORK SHALL BE INCIDENTAL TO THE PROJECT.
13. TOPSOIL SHALL CONSIST OF FRIABLE, SHREDDED, AND SCREENED SOIL REASONABLY FREE OF GRASS, ROOTS, WEEDS, STICKS, STONES OR OTHER FOREIGN MATERIALS. THE TOPSOIL MATERIAL SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT. SOIL COMPOSITION SHOULD CONTAIN AN ORGANIC CONTENT OF 2 TO 6 PERCENT AND BE CLASSIFIED AS A LOAM OR SANDY LOAM AS SPECIFIED IN THE "GUIDE FOR U.S.D.A. SOIL TEXTURAL CLASSIFICATION'.
14. ALL TREES AND SHRUBS ARE TO BE FERTILIZED ONCE ROOTS SYSTEM IS ESTABLISHED WITH AGRIFORM 21-GRAM FERTILIZER TABLETS AT RATES RECOMMENDED BY MANUFACTURER.
15. ALL PLANTS AND STAKES SHALL BE SET PLUMB UNLESS OTHERWISE SPECIFIED.
16. AT PLANTING TIME, ALL DEAD AND BROKEN BRANCHES SHALL BE PRUNED ON ALL DECIDUOUS TREES.
17. CONTRACTOR SHALL APPLY ENGINEER APPROVED PRE-EMERGENT HERBICIDE, "PREEN" OR EQUAL, TO SHRUB AND GROUND COVER PLANTING AREAS AT THE TIME OF PLANTING (IF SPRING PLANTED) OR THE FOLLOWING SPRING. CONTRACTOR SHALL ENSURE THE PLANT MATERIALS ARE RESISTANT TO THE HERBICIDES PROPERTIES. HERBICIDE SHALL BE APPLIED ACCORDING TO MANUFACTURERS SPECIFICATIONS AND IN ACCORDANCE WITH SOUND HORTICULTURAL PRACTICES.
18. ALL TREES, SHRUBS AND PERENNIAL GROUND COVER SHALL RECEIVE A MINIMUM DEPTH OF THREE INCHES DOUBLE SHREDDED HARDWOOD BARK MULCH. WHERE PLANT BEDS MEET PAVEMENTS, LAWN, OR STEEL EDGING CUT THE GRADE TO ALLOW FOR MULCH AND THREE-INCH DROP FROM ADJOINING FINISH GRADE.
19. ALL PLANT BEDS SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 8-INCHES AND BACKFILLED WITH SPECIFIED PLANT MIX AS PER PLANTING BED DETAILS. BEDS SHALL BE EDGED WITH METAL EDGING AROUND PERIMETER. ALL EDGING SHALL BE 4" WIDE – 12 GAUGE STEEL, COLOR BLACK. CONTRACTOR SHALL LAYOUT EDGING FOR APPROVAL AND INSTALL PER MANUFACTURERS RECOMMENDATIONS.
20. PLANTS SHALL BE WATERED BEFORE AND AFTER PLANTING IS COMPLETE. ALL TREES MUST BE STAKED, FERTILIZED AND MULCHED AND SHALL BE GUARANTEED TO EXHIBIT A NORMAL GROWTH CYCLE FOR AT LEAST ONE (1) FULL YEAR FOLLOWING PLANTING. ALL DISEASED, DAMAGED, OR DEAD MATERIAL SHOWN ON THE SITE PLAN SHALL BE REPLACED BY THE END OF THE FOLLOWING GROWING SEASON.
21. APPLICATIONS OF FERTILIZER BEYOND THE INITIAL TOPSOIL AND SEEDING SHALL BE A FERTILIZER WITH NO PHOSPHORUS.

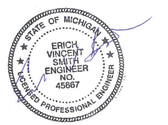
PLANTING MIXTURE NOTES

1. MIXTURE SHALL BE A MIXTURE OF 6 PARTS TOPSOIL, 4 PARTS MEDIUM-COARSE SAND, AND 1 PART COMPOST. ADD FERTILIZER AT THE QUANTITY AS RECOMMENDED BY THE MANUFACTURER. PLANTING MIXTURE SHALL BE FREE FROM, STICK, STONES, SOD CLODS, OR OTHER MATERIAL WHICH MIGHT LEAVE POCKETS AROUND THE ROOTS.

2. TOPSOIL
   2.1. TOPSOIL SHALL BE FERTILE, FRIABLE, SANDY CLAY LOAM WITHOUT ADMIXTURE OF SUBSOIL. TOPSOIL IS TO BE FREE OF GLASS, STONES GREATER THAN ONE (1) INCH IN ANY DIMENSION, WEEDS, UNDESIRABLE GRASSES AND OTHER EXTRANEOUS MATERIALS. TOPSOIL SHALL HAVE THE FOLLOWING RANGE OF VALUES:
   pH 5.0 TO 7.5
   SOLUBLE SALTS 500 PPM MAX
   ORGANIC CONTENT 5% TO 30%
   SILT CONTENT 35% TO 50%
   CLAY CONTENT 5% TO 10%
   DELETERIOUS MAT'L* 5% MAX
   *ROCK, GRAVEL, STONE, STICKS, ROOTS, SOD, ETC.
   2.2. TOPSOIL IS TO BE FINAL SCREENED THRU A 5/8" MAXIMUM MESH SCREEN PRIOR TO DELIVERY TO THE PROJECT SITE. ENGINEER SHALL REVIEW SOURCE AND FINAL SCREEN RESULTS PRIOR TO RELEASE OF TOPSOIL. CONTRACTOR SHALL SUBMIT A CERTIFIED ANALYSIS OF THE TOPSOIL FROM EACH SOURCE TO THE ENGINEER. TOPSOIL SHALL BE PLACED IN 4-INCH MINIMUM THICKNESS THROUGHOUT.

3. SAND FOR PLANTING MIXTURE SHALL BE CLEAN, MEDIUM-COARSE, UNGRADED SAND CONFORMING TO ASTM C3 FOR FINE AGGREGATES.

4. COMPOST SHALL BE COMPOSTED PINE BARK FINES OR OTHER HIGH-LIGNIN BARK FROM SPRUCE, FIR, OR OTHER CONIFERS.



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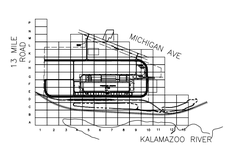

KEY PLAN
SCALE: NO SCALE

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BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

LANDSCAPE DETAILS 2

SHEET NUMBER

L1.3

PLOT DATE: 9/22/2023 10:41:35 AM SAVE DATE: 9/1/2023 10:15:12 AM FIELD_JAKE C:\Users\field\DOCS\DOCS\DWI\Wade Trim\FRD0011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 01\Plan Sheets\Mass Grading & SESC\2000000\001-C01-LAND-A22-WADE.dwg

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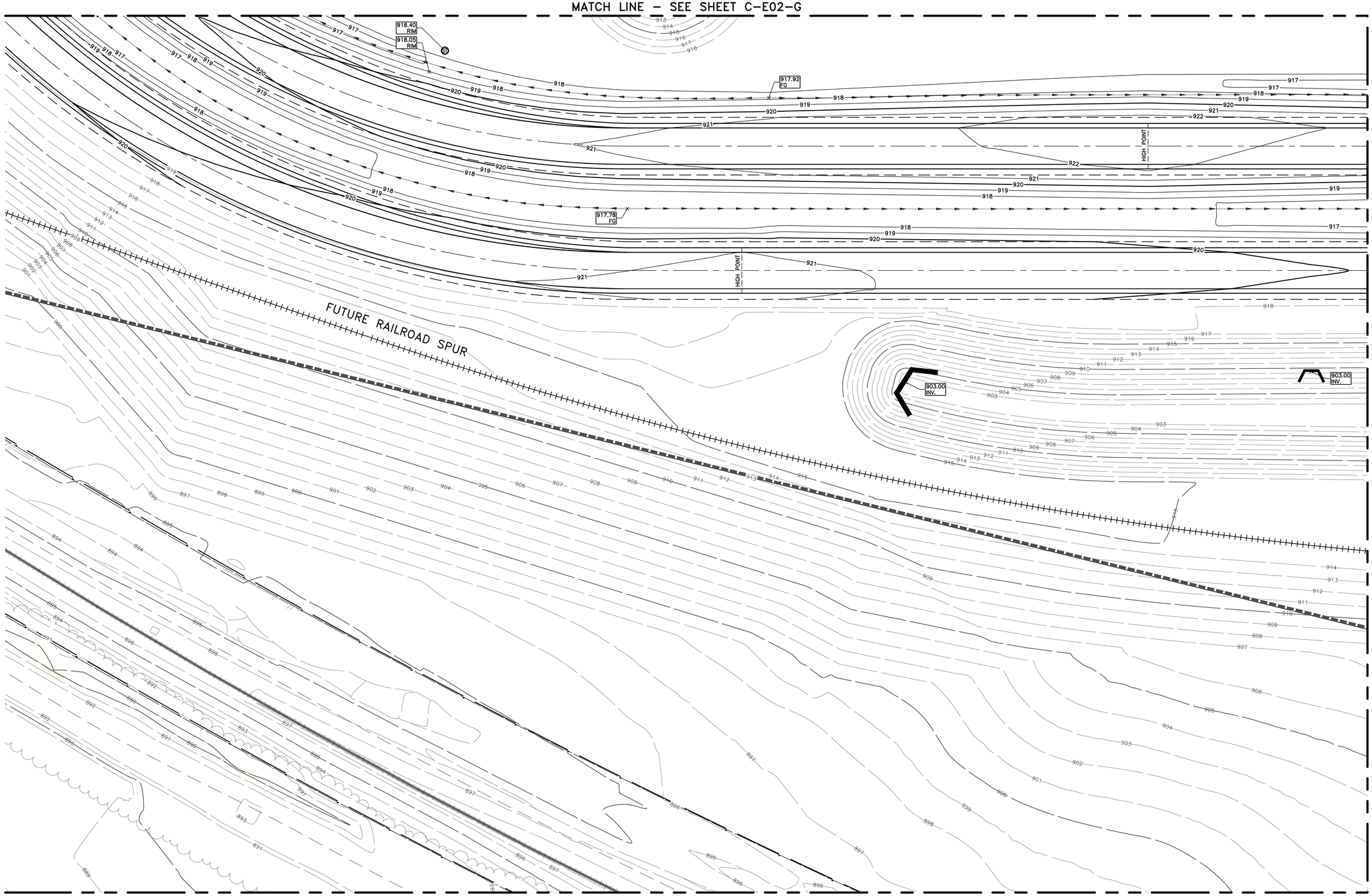

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NORTH

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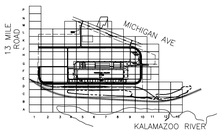

KEY PLAN

SCALE: NO SCALE

FORDLAND

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USA

Ford

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BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
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DESIGNED BY:	S. DODSON
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APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL D02 GRADING PLAN

SHEET NUMBER

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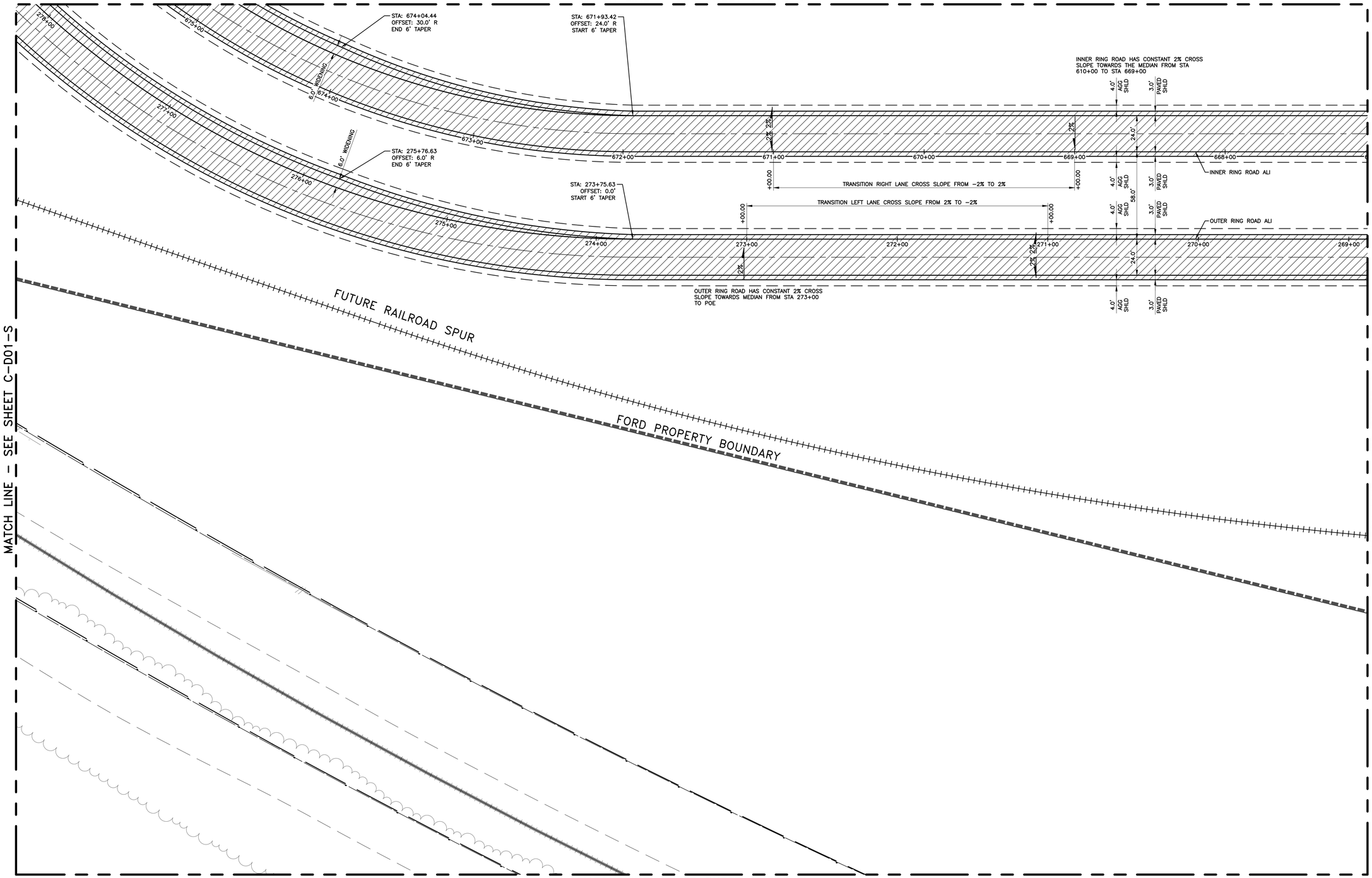

NORTH

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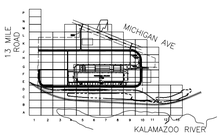

KEY PLAN

SCALE: NO SCALE

FORDLAND

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USA

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MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL D02
SITE PLAN

SHEET NUMBER

C-D02-S

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8" X 6" WATER REDUCER
N=279389.0450
E=12940928.5924

10 LFT 6" C900 WATER MAIN
TEE TO REDUCER

D02-DWH-02
N=279380.7259
E=12940922.5893
HYDRANT ASS'Y

REFER TO GRID SHEET
C-D02-U
FOR STORM LINE
INFORMATION.

17 LF OF 24"
RCP ST @ 2.87%
INV = 908.49.
INSTALL TEMPORARY PLUG
OR BULKHEAD.

STA: 181+66.63
N=279336.1117
E=12941194.3622
END WATER MAIN DELFECTION

15' OFF EOP

503 LFT 16" C900 WATER MAIN TEE TO VALVE

106 LFT 16" C900 WATER MAIN
TEE TO VALVE

HYD-D02-01
184+17.79
16"X6" TEE
N=279336.10
E=12941445.53
W/ P STYLE HYDRANT ASSEMBLY

367 LF OF 84"
RCP ST @ 0.10%

D02-DPV-01
16" VALVE IN WELL
RIM=919.87
N=279336.10
E=12941553.44

CLASS 1 RIPRAP, 2.85"
THICK, D50=17".
APRON LENGTH = 49 FT.
APPROX. VOLUME = 254 CY

HW-D02-01
NW 216" INV=903.00

HW-D02-02
N 84" INV=903.00

CLASS 1 RIPRAP 2.8"
THICK, D50=6".
APRON LENGTH = 28 FT.
APPROX. VOLUME = 78 CY.

FUTURE RAILROAD SPUR

FORD PROPERTY BOUNDARY

NORTH

PARTIAL D02 UTILITY PLAN
SCALE: 1"=30"

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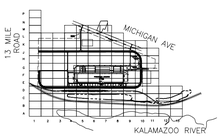

KEY PLAN
SCALE: NO SCALE

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DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL D02
UTILITY PLAN

SHEET NUMBER

C-D02-U

PLOT DATE: 9/22/2023 9:23:17 AM
SAVE DATE: 9/13/2023 5:06:14 PM
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916.60
INV.

915.69
RIM

908.57
INV.

LOW POINT

LOW POINT

FUTURE RAILROAD SPUR

FUTURE RAILROAD SPUR

FUTURE RAILROAD SPUR

FORD PROPERTY BOUNDARY

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NORTH

PARTIAL D03 GRADING PLAN

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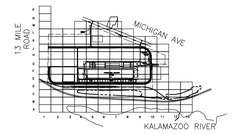

KEY PLAN

SCALE: NO SCALE

FORDLAND

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USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

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CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL D03
GRADING PLAN

SHEET NUMBER

C-D03-G

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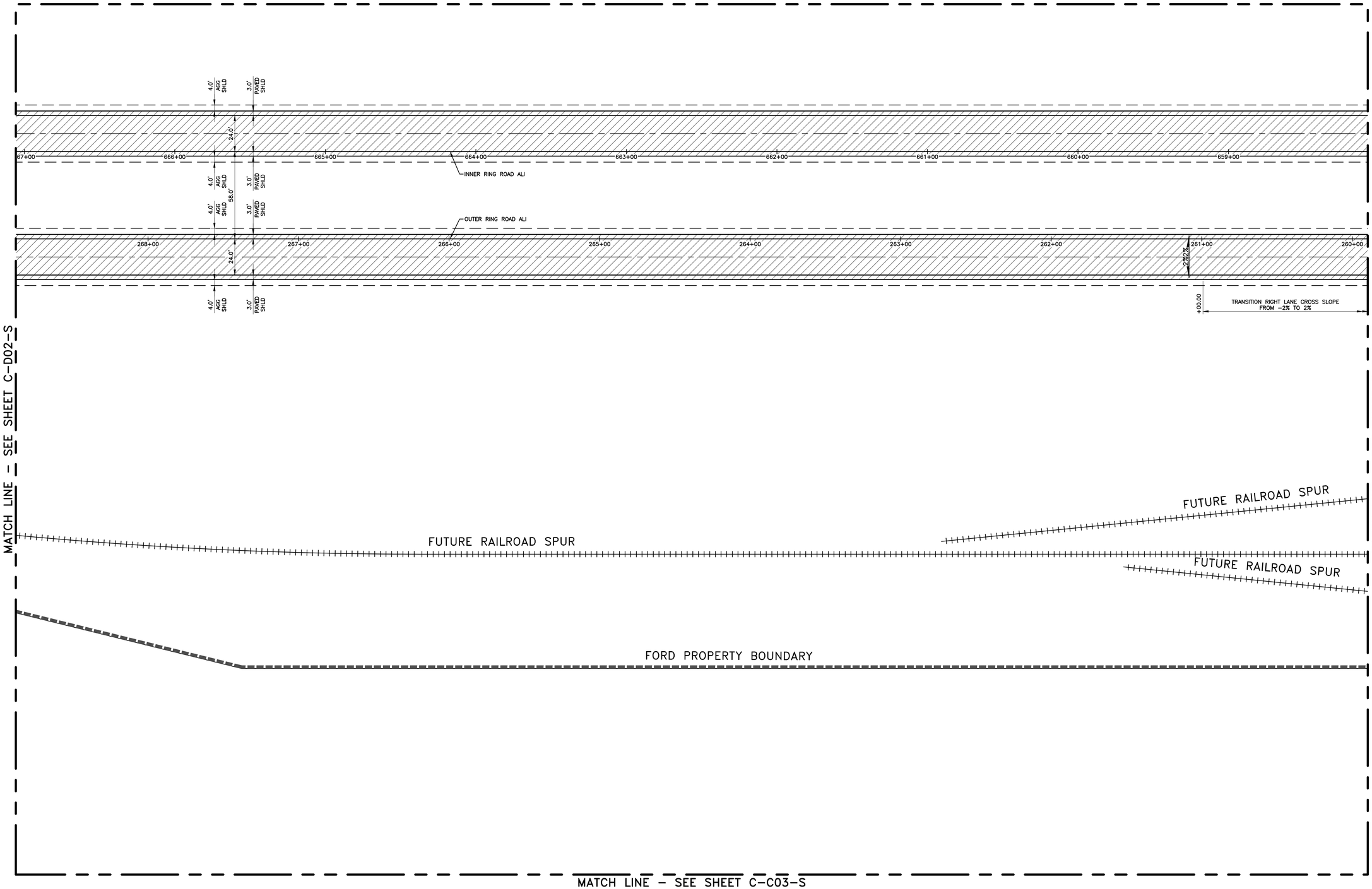

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MATCH LINE – SEE SHEET C-D04-S

MATCH LINE – SEE SHEET C-C03-S

NORTH

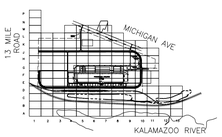
PARTIAL D03 SITE PLAN

SCALE: 1"=30"

Know what's below. Call before you dig.

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION



KEY PLAN

SCALE: NO SCALE

FORD LAND
17000 ROTUNDA DR, 1ST FLOOR SOUTH
DEARBORN, MICHIGAN 48120-1168
USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

A/E OF RECORD LOGO

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25251 Northline Rd.
Taylor, MI 48180
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www.wadetrim.com

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09/22/23	• BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT
08/31/23	• BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT

A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL D03
SITE PLAN

SHEET NUMBER

C-D03-S

PLOT DATE: 9/22/2023 9:27:59 AM SAVE DATE: 9/12/2023 2:41:25 PM PIPER, ADAM C:\Users\piperd\DCACDocs\Wade Trim\FRD2311-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid D2000000-CP-LTG-SCD-S-R22-WADE.dwg

Border version 2014.0

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MATCH LINE – SEE SHEET C-E03-U

D03-DWH-01
189+19.04
16"X6" TEE
N=279336.10
E=12941946.78
W/ P STYLE HYDRANT ASSEMBLY

D03-DPV-01
16" VALVE IN WELL
RIM=918.83
N=279336.10
E=12942252.94

FES-D03-01
S 18" INV=915.00

D03-DWH-02
194+20.29
16"X6" TEE
N=279336.10
E=12942448.03
W/ P STYLE HYDRANT ASSEMBLY

193 LFT 16" C900 WATER MAIN TEE TO VALVE

186+00 187+00 188+00 189+00 190+00 191+00 192+00 193+00 194+00

392 LFT 16" C900 WATER MAIN TEE TO VALVE

15' OFF EOP

305 LFT 16" C900 WATER MAIN TEE TO VALVE

74 LF OF 18" RCP
ST @ 4.70%

CB-D03-02
RIM=915.69
N INV=911.50
S INV=907.47

132 LF OF 24"
RCP ST @ 5.00%

FES-D03-03
N 24" INV=900.86

MATCH LINE – SEE SHEET C-D02-U

MATCH LINE – SEE SHEET C-D04-U

FUTURE RAILROAD SPUR

FUTURE RAILROAD SPUR

FUTURE RAILROAD SPUR

FORD PROPERTY BOUNDARY

MATCH LINE – SEE SHEET C-C03-U

NORTH

PARTIAL D03 UTILITY PLAN
SCALE: 1"=30"

811
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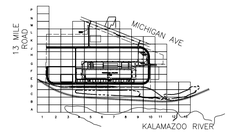
Call before you dig.

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45687
REGISTERED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION



KEY PLAN
SCALE: NO SCALE

FORDLAND

17000 ROTUNDA DR, 1ST FLOOR SOUTH
DEARBORN, MICHIGAN 48120-1168
USA

Ford

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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08/31/23	• BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT

A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL D03
UTILITY PLAN

SHEET NUMBER

C-D03-U

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PIPER, ADAM

SAVE DATE: 9/22/2023 3:44:14 PM

PLOT DATE: 9/22/2023 9:29:08 AM

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MATCH LINE – SEE SHEET C–E04–G

MATCH LINE – SEE SHEET C–D03–G

MATCH LINE – SEE SHEET C–D05–G

MATCH LINE – SEE SHEET C–C04–G

FUTURE PARKING LOT

FUTURE RAILROAD SPUR

FUTURE RAILROAD SPUR

FORD PROPERTY BOUNDARY

HIGH POINT

HIGH POINT

922.21 TOC, T/P
922.16 T 921.70 G
922.44 T 921.98 G
921.91 TOC, T/P
922.04 T/P
922.48 T 922.02 G
922.28 T 921.82 G
921.10 T 920.64 G
920.60 TOC, T/P
918.26 T/P
918.00 T/P
916.50 INV.
920.13 T/P
920.27 T/P
920.80 T/P
920.65 T/P
920.36 T/P
920.10 T/P
917.23 FG
920.25 T/P
920.04 T/P
920.11 T/P
916.78 FG
916.10 RIM
920.80 T 920.34 G
917.30 FG
920.93 T 920.47 G
920.63 T 920.17 G
920.08 TOC, T/P
920.37 TOC, T/P
920.53 T 920.07 G
919.23 T 918.77 G
920.39 T 919.93 G
917.50 FG
919.90 TOC, T/P
919.87 T/P
919.60 T/P
918.88 T/P
920.32 T/P
910.51 INV.

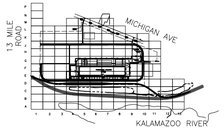
NORTH

PARTIAL D04 GRADING PLAN

SCALE: 1"=30"

NOT FOR CONSTRUCTION

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
REGISTERED PROFESSIONAL ENGINEER



KEY PLAN

SCALE: NO SCALE

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USA

Ford

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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DATE		ISSUED FOR

A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL D04
GRADING PLAN

SHEET NUMBER

C-D04-G

PLOT DATE: 9/22/2023 9:30:43 AM
SAVE DATE: 9/15/2023 3:55:52 PM
PIPER, ADAM
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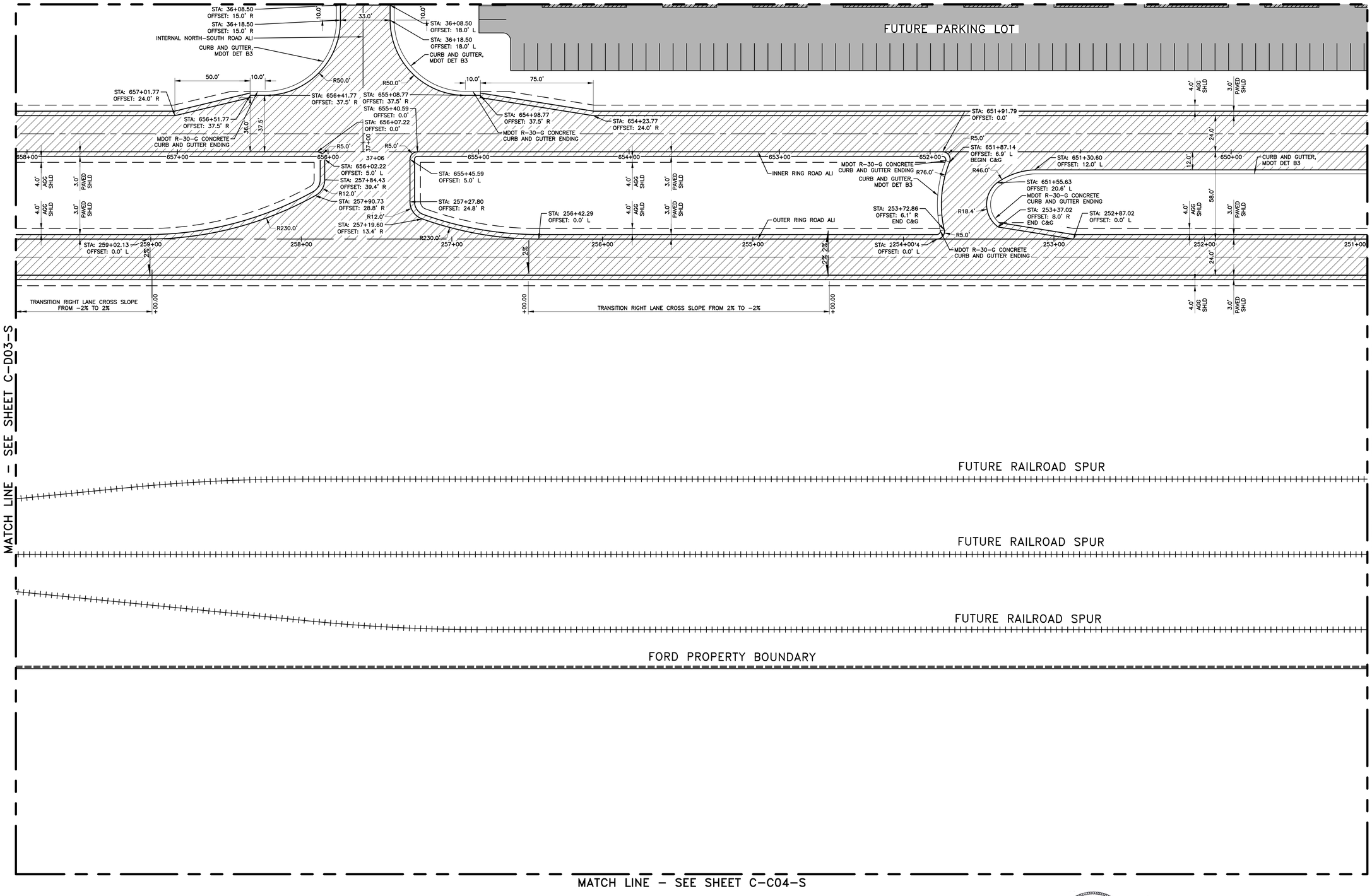
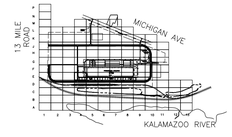


NORTH

PARTIAL D04 SITE PLAN

SCALE: 1"=30"

NOT FOR CONSTRUCTION



KEY PLAN

SCALE: NO SCALE

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USA

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BATTERY PARK
MICHIGAN
BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL D04
SITE PLAN

SHEET NUMBER

C-D04-S

PLOT DATE: 9/22/2023 9:31:44 AM
SAVE DATE: 9/7/2023 1:16:18 PM
PIPER, ADAM
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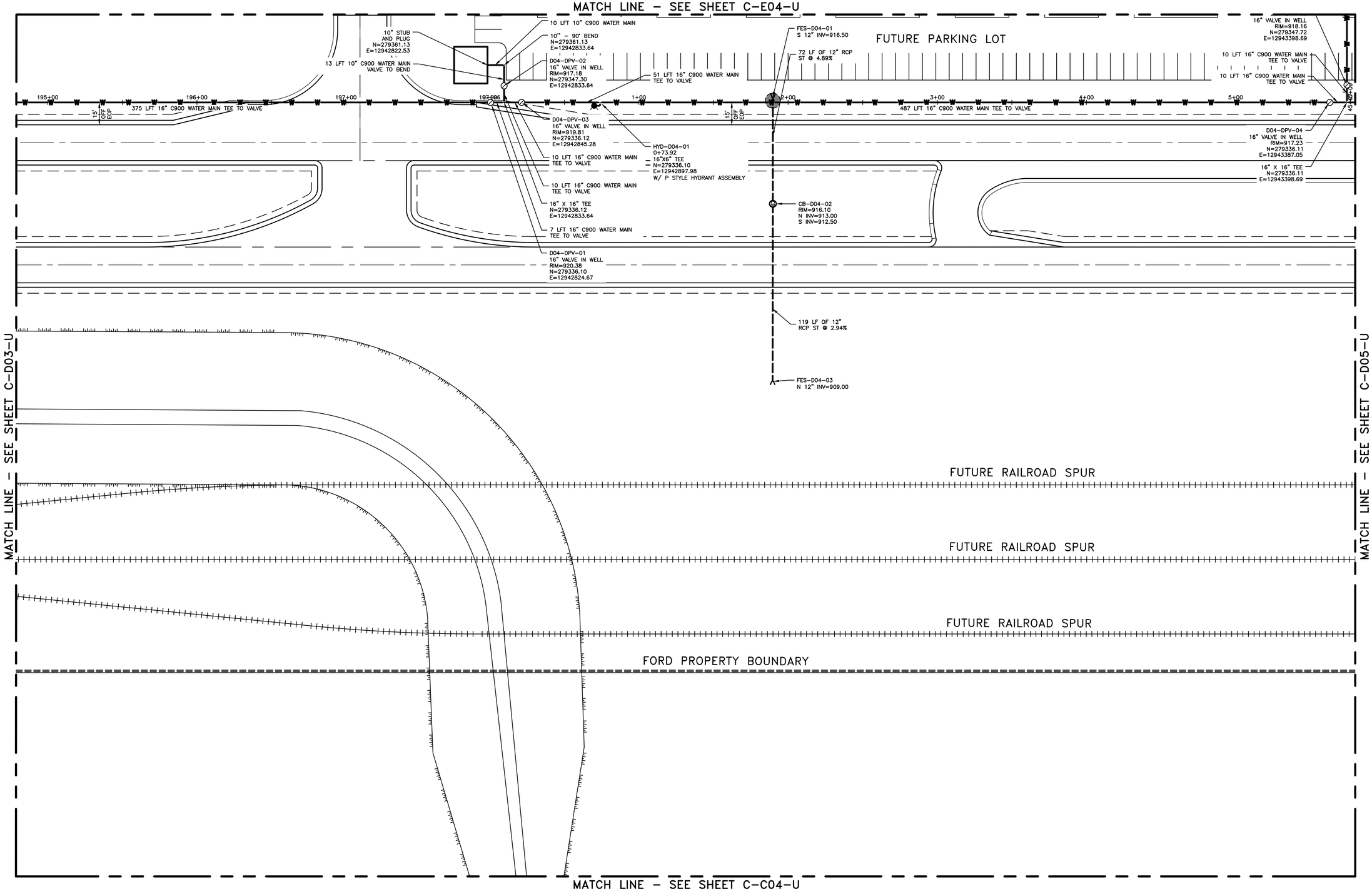


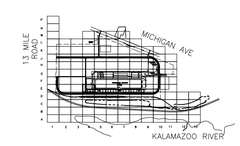
NORTH

PARTIAL D04 UTILITY PLAN

SCALE: 1"=30"

STATE OF MICHIGAN ERICH VINCENT SMITH ENGINEER NO. 45667 LICENSED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION



KEY PLAN

SCALE: NO SCALE

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DEARBORN, MICHIGAN 48120-1168
USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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08/31/23	BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT

A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL D04
UTILITY PLAN

SHEET NUMBER

C-D04-U

PLOT DATE: 9/22/2023 9:33:16 AM SAVE DATE: 9/22/2023 8:51:02 AM PIPER, ADAM

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MATCH LINE – SEE SHEET C–E05–G

FUTURE PARKING LOT

917.75 T/P
917.43 FG
919.41 T/P
916.99 FG
918.25 T/P
919.21 T/P
916.52 INV.
LOW POINT
918.60 T/P
917.49 FG
920.05 T/P
917.90 FG
918.60 T/P
920.30 T/P
HIGH POINT
919.38 T
918.92 G
919.02 TOC, T/P
919.01 T/P
919.59 T/P
919.90 TOC, T/P
920.27 T
919.81 G
920.46 T
920.00 G
920.93 T
920.47 G
920.63 T
920.17 G
920.50 T
920.04 G
920.61 T
920.15 G
920.71 T
920.25 G
920.93 T
920.47 G
920.54 T
920.08 G
920.39 T
919.93 G
920.43 T
919.97 G
920.58 T
920.12 G
920.00 TOC, T/P
920.19 T
919.73 G
917.49 FG
915.50 RIM
916.90 FG
920.58 T
920.12 G
918.79 T
918.33 G
920.34 T
919.88 G
918.40 TOC, T/P
919.96 T
919.50 G
LOW POINT
HIGH POINT
918.28 T/P
909.76 INV.

MATCH LINE – SEE SHEET C–D04–G

MATCH LINE – SEE SHEET C–D06–G

FUTURE RAILROAD SPUR

FUTURE RAILROAD SPUR

FUTURE RAILROAD SPUR

FORD PROPERTY BOUNDARY

MATCH LINE – SEE SHEET C–C05–G

NORTH

PARTIAL D05 GRADING PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
REGISTERED PROFESSIONAL ENGINEER

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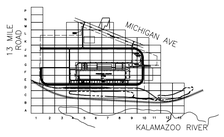

KEY PLAN

SCALE: NO SCALE

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USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

A/E OF RECORD LOGO

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A/E TEAM INFORMATION

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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL D05
GRADING PLAN

SHEET NUMBER

C-D05-G

PLOT DATE: 9/22/2023 9:34:51 AM
SAVE DATE: 9/15/2023 4:47:26 PM
PIPER, ADAM
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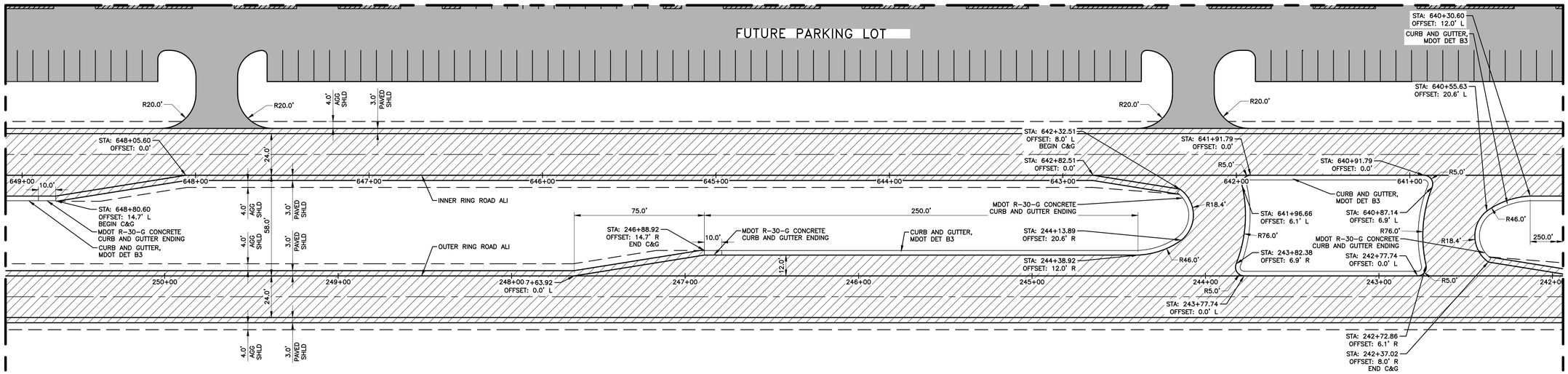
MATCH LINE – SEE SHEET C-E05-S



MATCH LINE – SEE SHEET C-D04-S

MATCH LINE – SEE SHEET C-D06-S

FUTURE RAILROAD SPUR

FUTURE RAILROAD SPUR

FUTURE RAILROAD SPUR

FORD PROPERTY BOUNDARY

MATCH LINE – SEE SHEET C-C05-S

NORTH

PARTIAL D05 SITE PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
REGISTERED PROFESSIONAL ENGINEER

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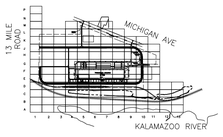

KEY PLAN

SCALE: NO SCALE

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USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

A/E OF RECORD LOGO

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A/E TEAM INFORMATION

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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL D05
SITE PLAN

SHEET NUMBER

C-D05-S

PLOT DATE: 9/22/2023 9:35:53 AM SAVE DATE: 8/31/2023 3:36:39 PM PIPER, ADAM

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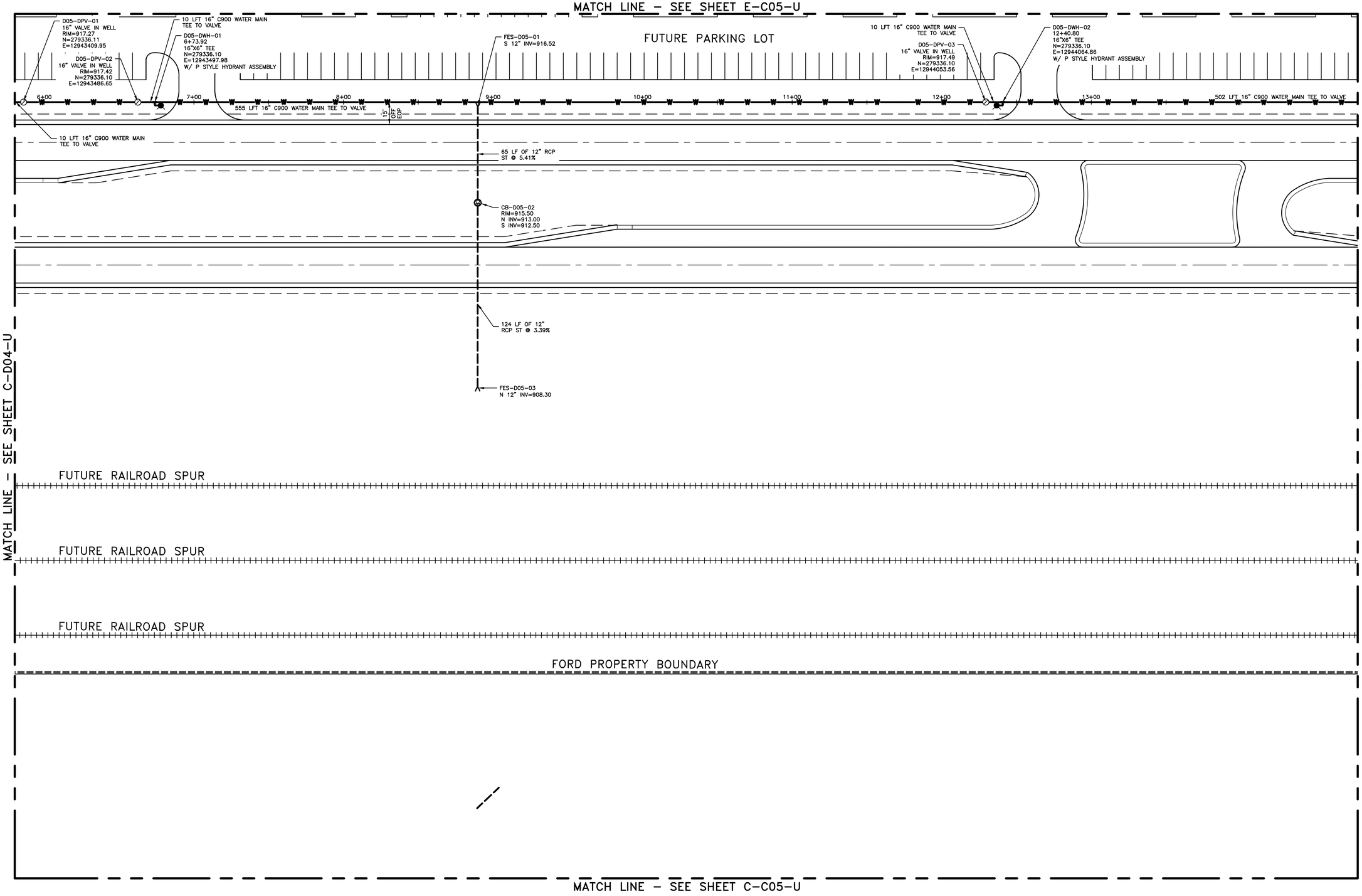

NORTH

PARTIAL D05 UTILITY PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

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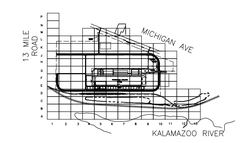

KEY PLAN

SCALE: NO SCALE

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08/31/23	BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT

A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL D05
UTILITY PLAN

SHEET NUMBER

C-D05-U

PLOT DATE: 9/22/2023 9:37:29 AM SAVE DATE: 15/2023 4:49:44 PM PIPER, ADAM C:\Users\apiper\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid D\2000000-C-PLTS-D05-U-A22-WADE.dwg

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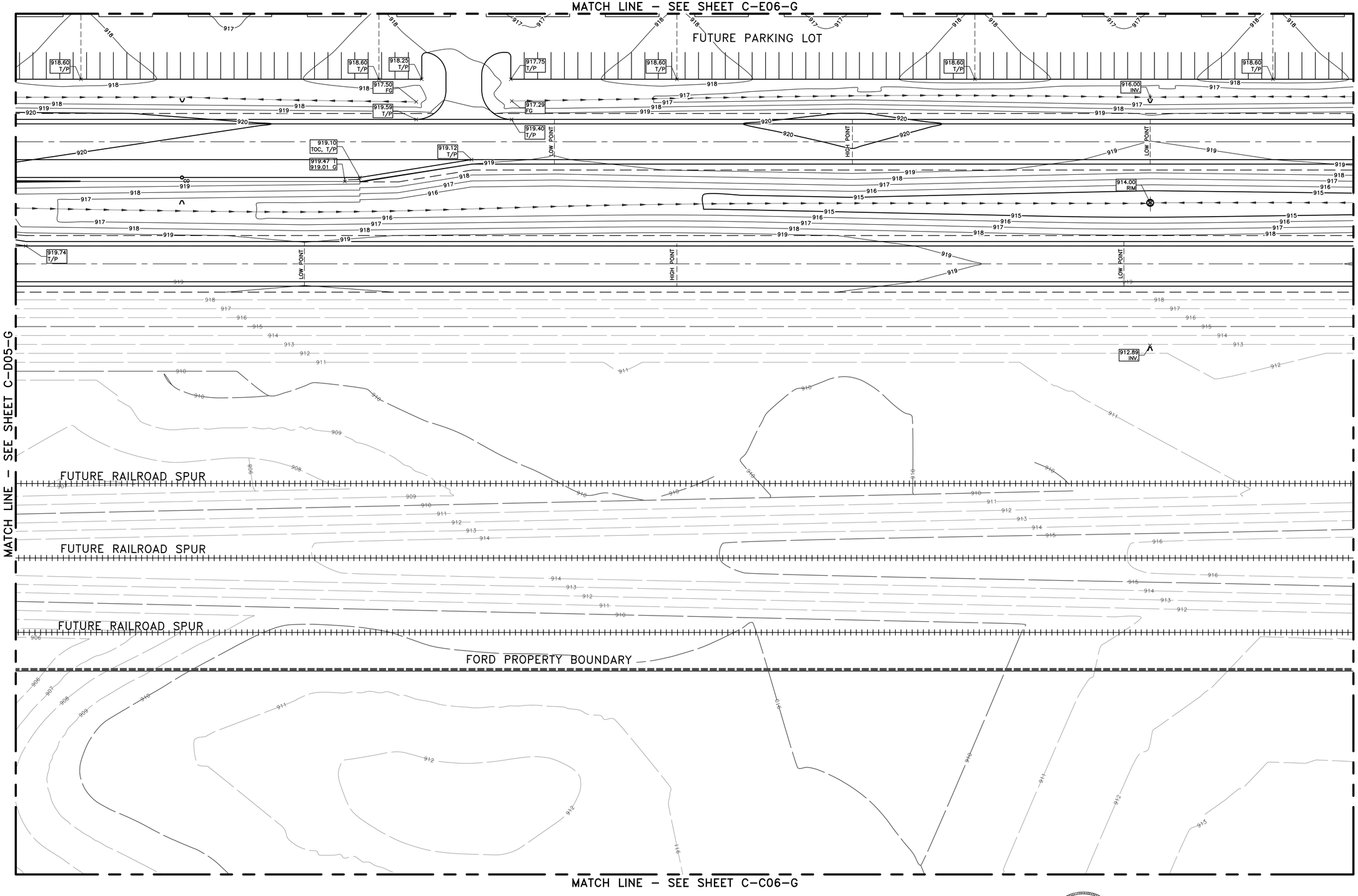

NORTH

PARTIAL D06 GRADING PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

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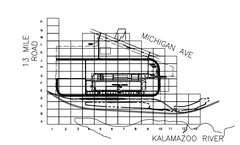

KEY PLAN

SCALE: NO SCALE

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FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL D06
GRADING PLAN

SHEET NUMBER

C-D06-G

PLOT DATE: 9/22/2023 9:39:02 AM SAVE DATE: 15/2023 5:05:07 PM PIPER, ADAM

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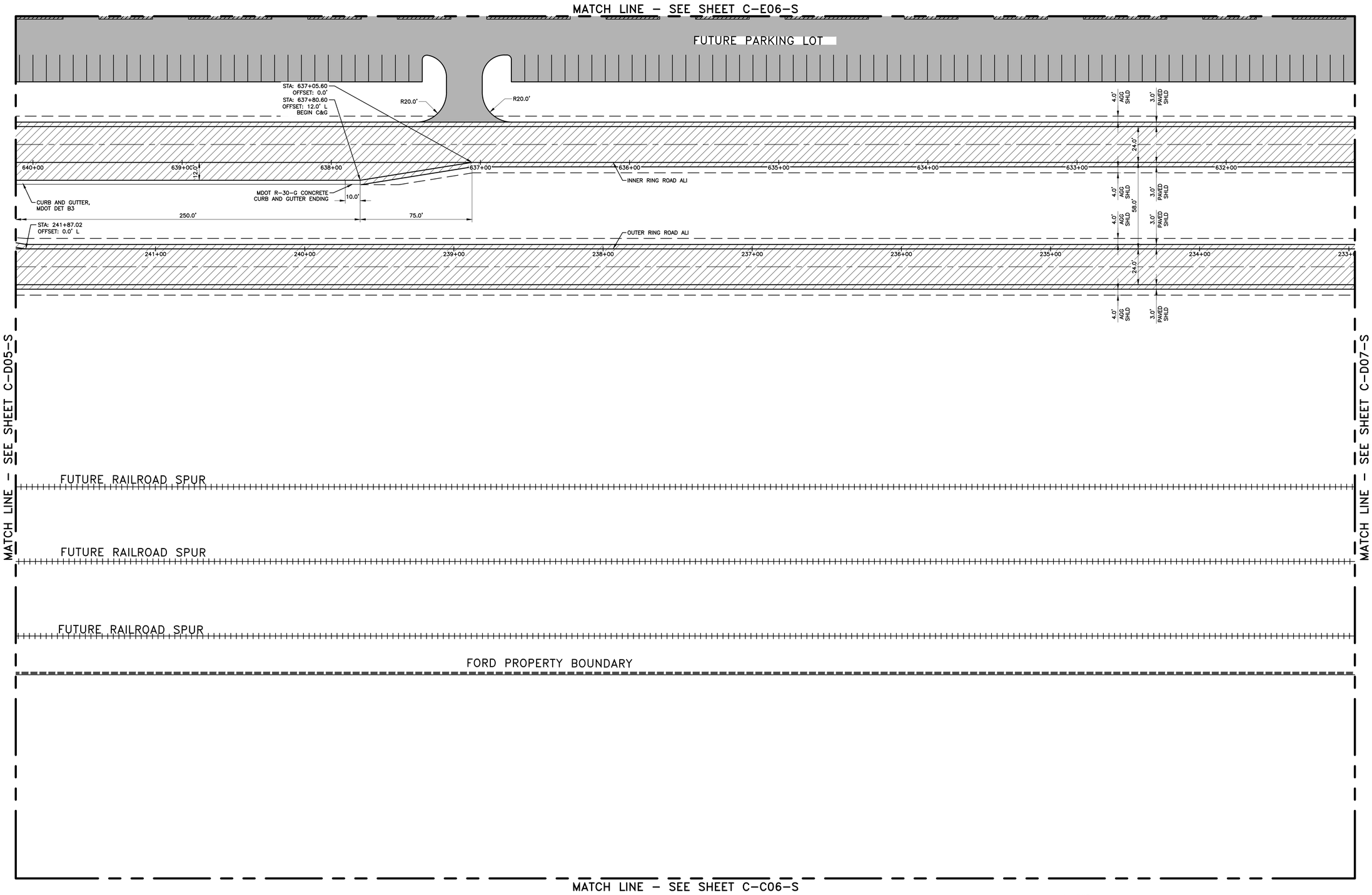

NORTH

PARTIAL D06 SITE PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

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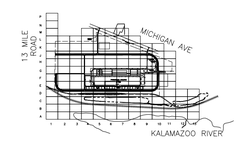

KEY PLAN

SCALE: NO SCALE

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BATTERY PLANT

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FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL D06
SITE PLAN

SHEET NUMBER

C-D06-S

PLOT DATE: 9/22/2023 9:39:45 AM SAVE DATE: 7/2023 1:12:10 PM PIPER, ADAM

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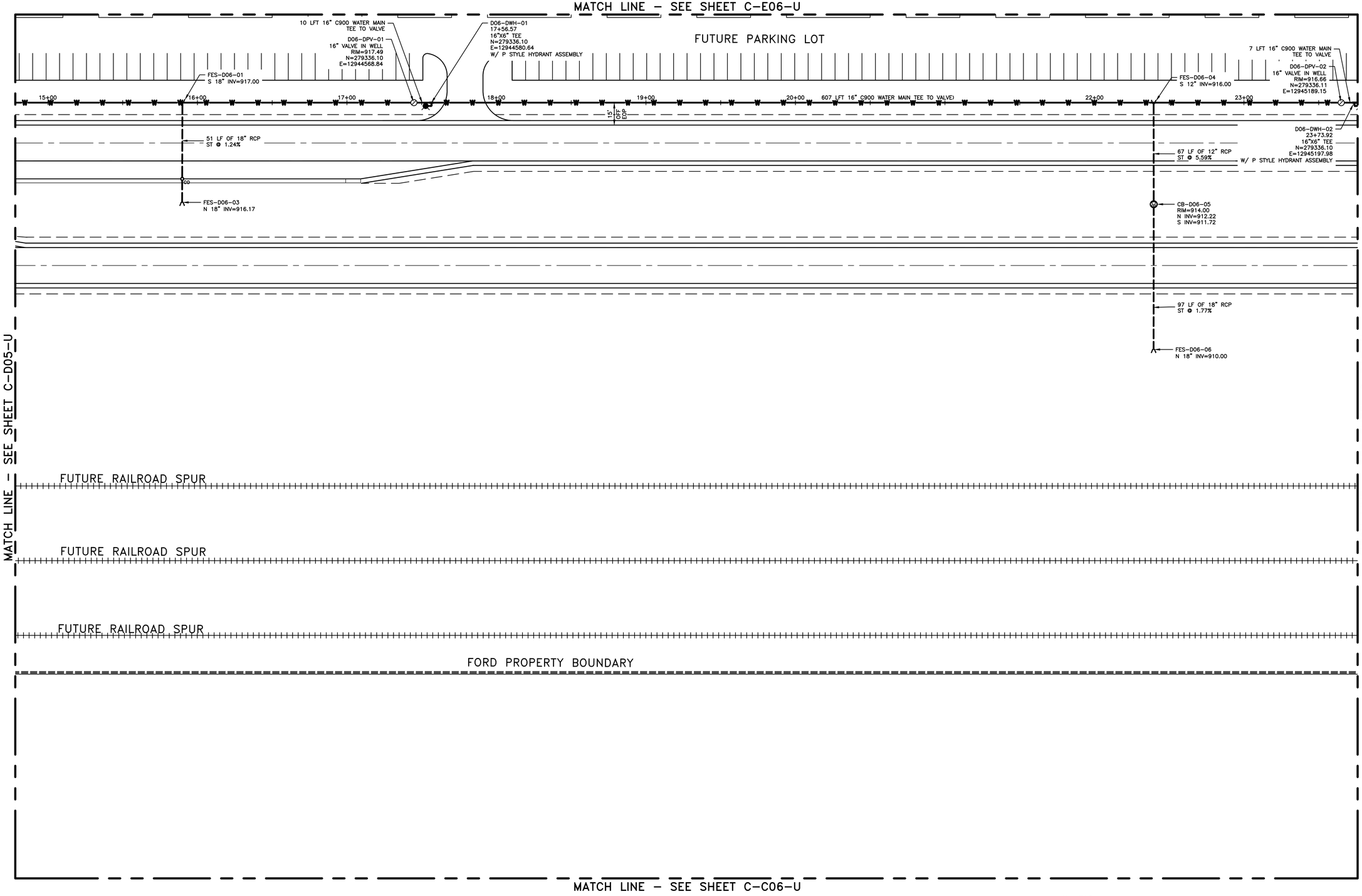

NORTH

PARTIAL D06 UTILITY PLAN

SCALE: 1"=30"

STATE OF MICHIGAN ERICH VINCENT SMITH ENGINEER NO. 45667 LICENSED PROFESSIONAL ENGINEER

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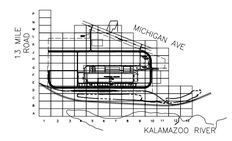

KEY PLAN

SCALE: NO SCALE

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MARSHALL CALHOUN CO. MI

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL D06
UTILITY PLAN

SHEET NUMBER

C-D06-U

PLOT DATE: 9/22/2023 9:41:38 AM SAVE DATE: 9/15/2023 5:06:39 PM PIPER, ADAM

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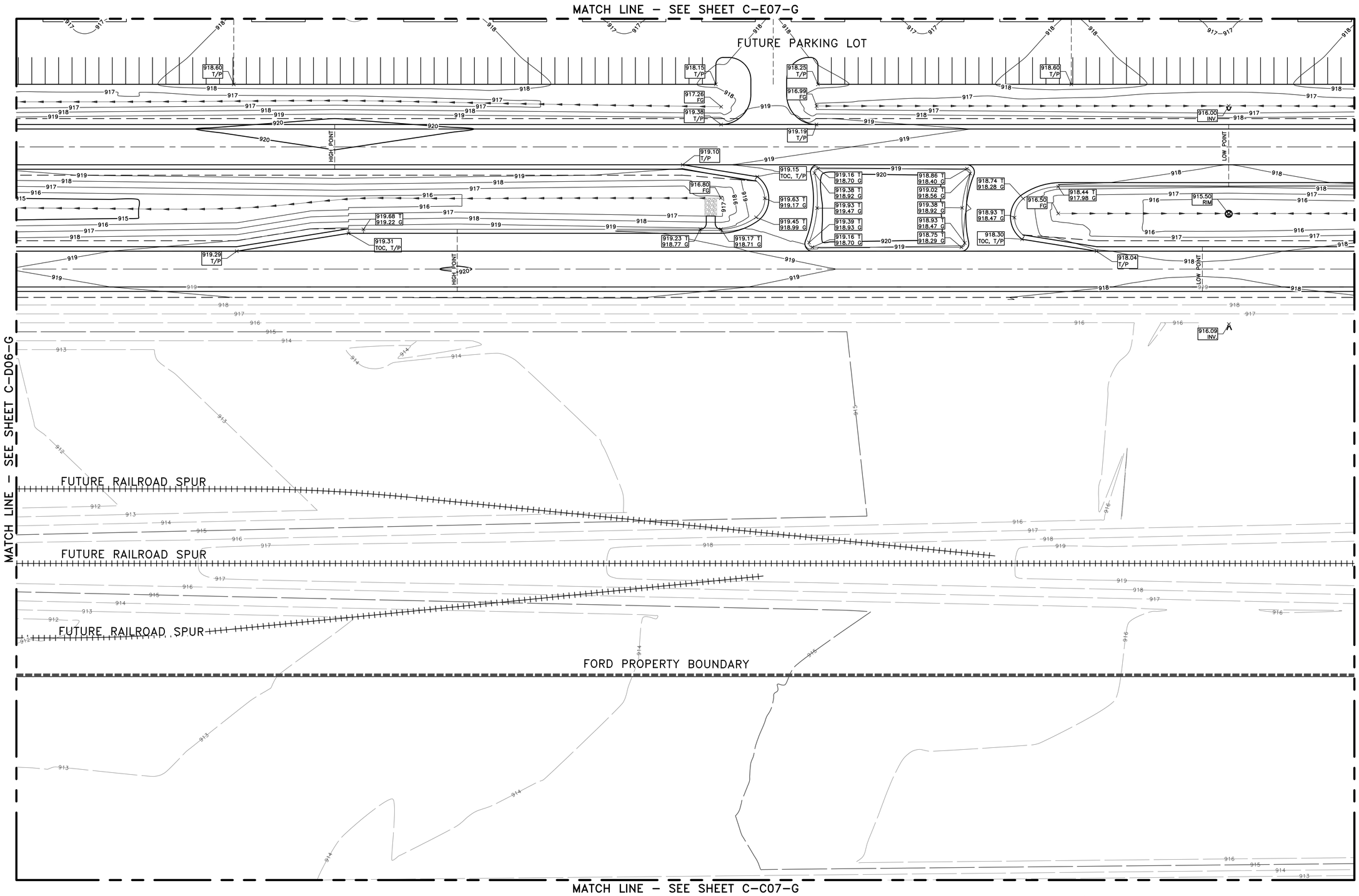

NORTH

PARTIAL D07 GRADING PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

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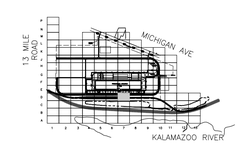

KEY PLAN

SCALE: NO SCALE

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL D07
GRADING PLAN

SHEET NUMBER

C-D07-G

PLOT DATE: 9/22/2023 9:43:32 AM SAVE DATE: 15/2023 5:34:01 PM PIPER, ADAM C:\Users\apiper\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid D\2000000-C-PLTS-D07-G-A22-WADE.dwg

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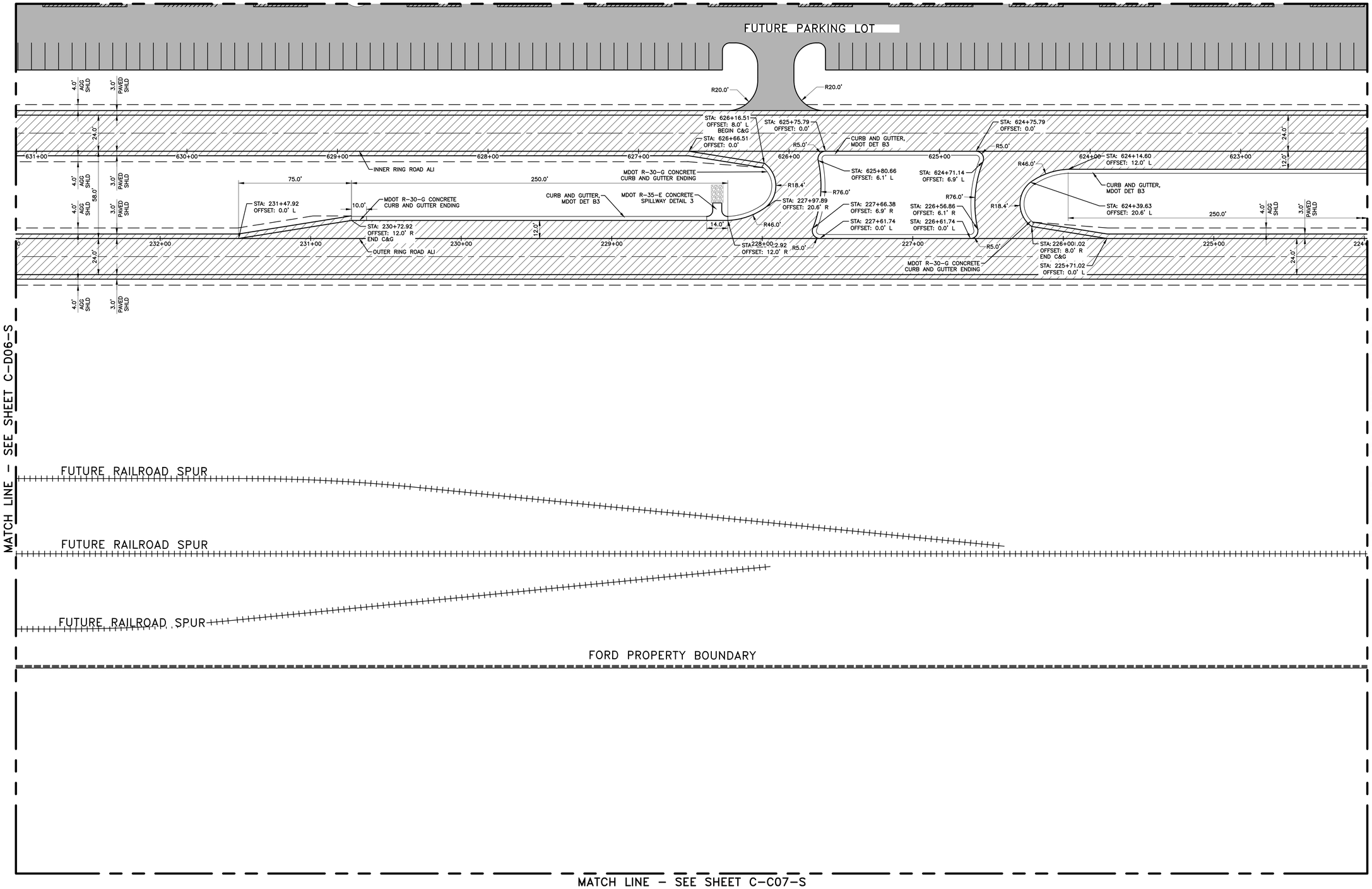

NORTH

PARTIAL D07 SITE PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
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ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

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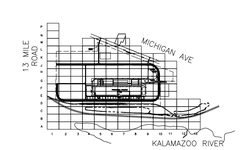

KEY PLAN

SCALE: NO SCALE

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MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL D07
SITE PLAN

SHEET NUMBER

C-D07-S

PLOT DATE: 9/22/2023 9:44:31 AM SAVE DATE: 9/31/2023 5:50:41 PM PIPER, ADAM C:\Users\apiper\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid D\2000000-C-PLTS-D07-S-A22-WADE.dwg

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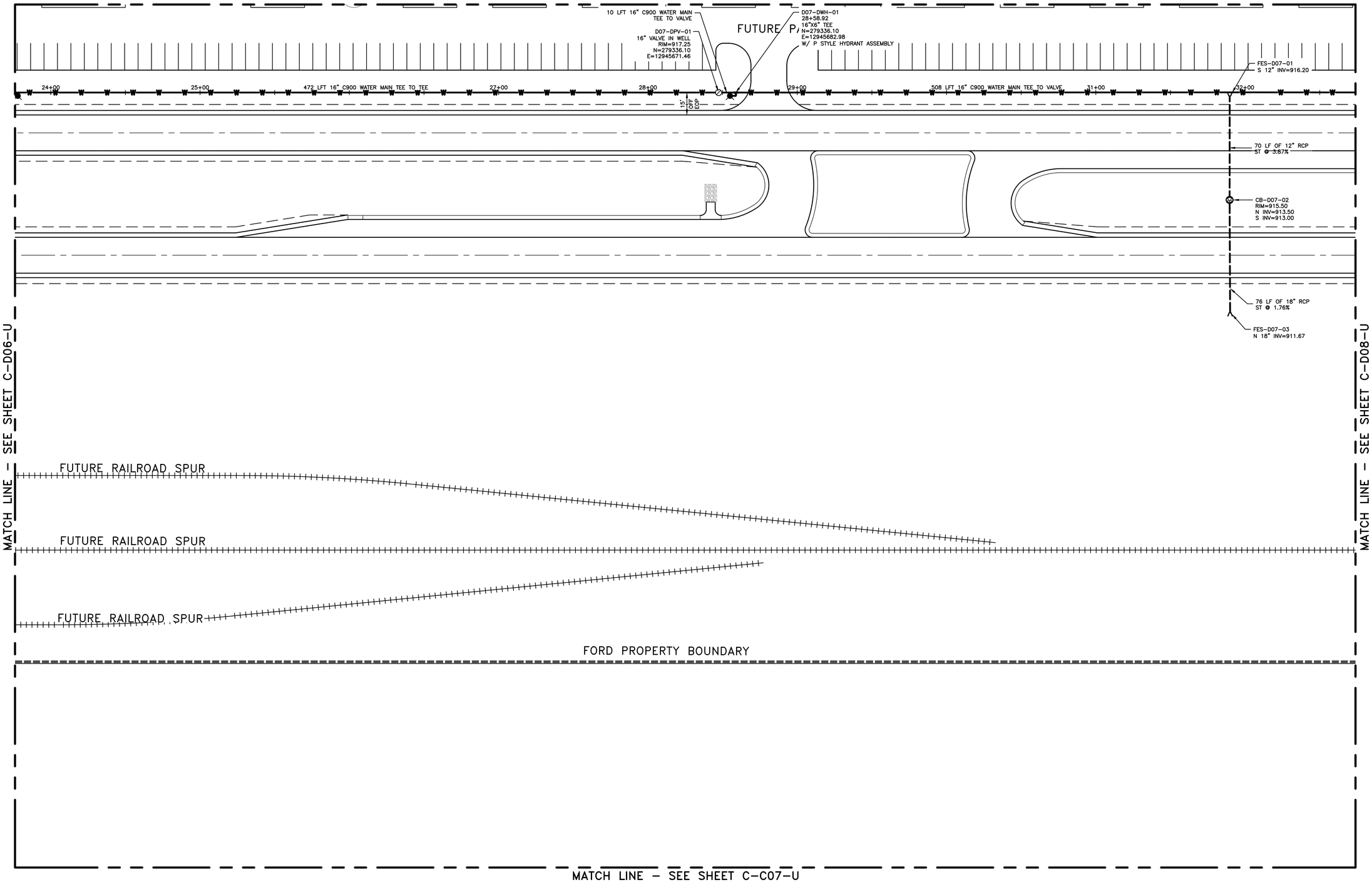

NORTH

PARTIAL D07 UTILITY PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

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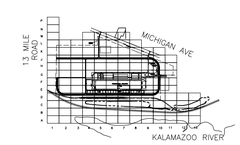

KEY PLAN

SCALE: NO SCALE

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BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL D07
UTILITY PLAN

SHEET NUMBER

C-D07-U

PLOT DATE: 9/22/2023 9:45:58 AM SAVE DATE: 9/15/2023 5:37:14 PM PIPER, ADAM C:\Users\apiper\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid D\2000000-C-PLTS-D07-U-A22-WADE.dwg

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FUTURE PARKING LOT

MATCH LINE – SEE SHEET C–D07–G

MATCH LINE – SEE SHEET C–D09–G

FUTURE RAILROAD SPUR

FORD PROPERTY BOUNDARY

MATCH LINE – SEE SHEET C–C08–G

NORTH

PARTIAL D08 GRADING PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
REGISTERED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION

13 MILE ROAD

MICHIGAN AVE

KALAMAZOO RIVER

KEY PLAN

SCALE: NO SCALE

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USA

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MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL D08
GRADING PLAN

SHEET NUMBER

C-D08-G

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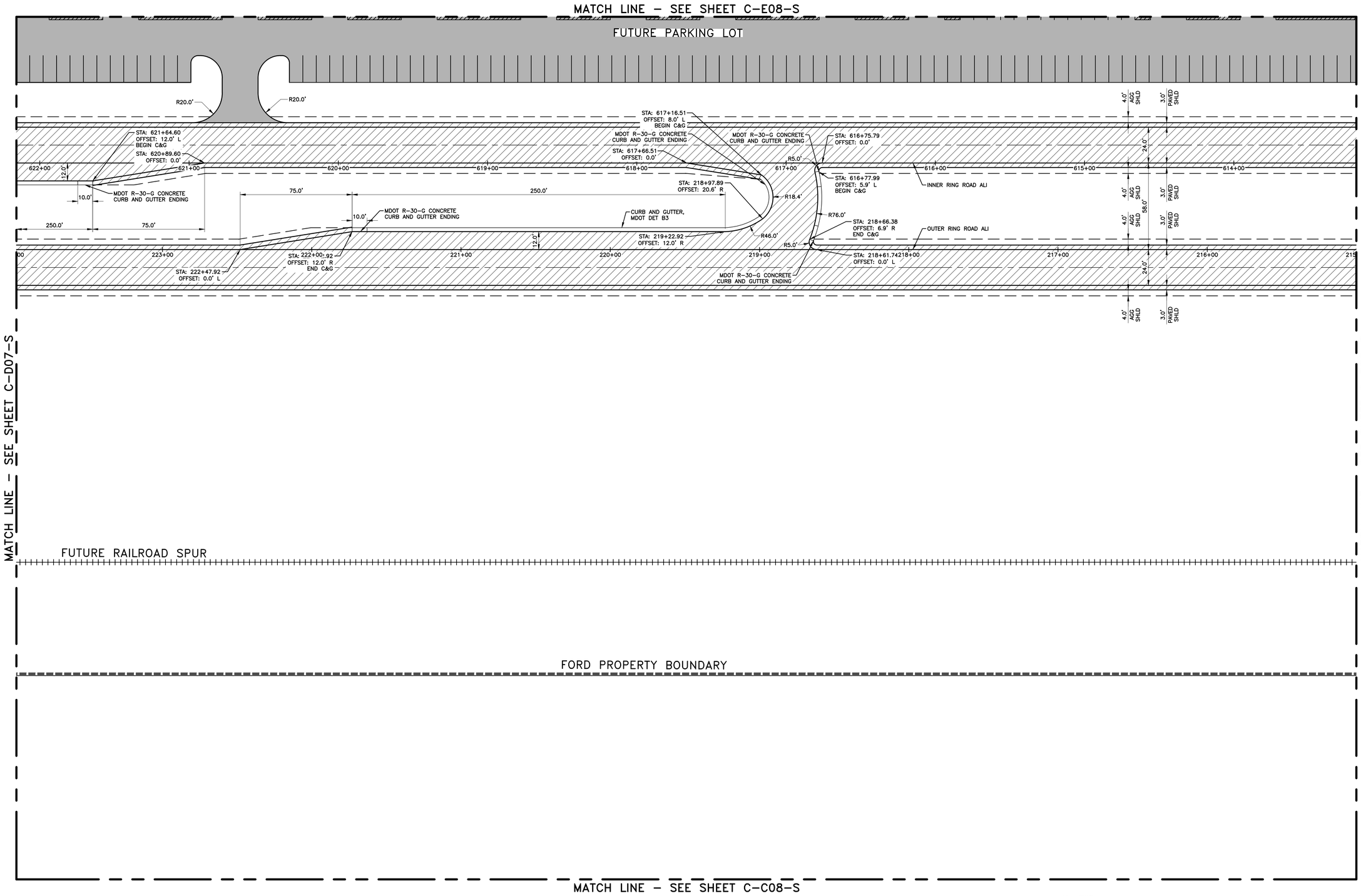

NORTH

PARTIAL D08 SITE PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
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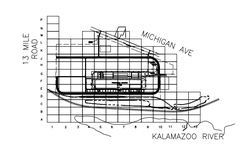

KEY PLAN

SCALE: NO SCALE

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL D08
SITE PLAN

SHEET NUMBER

C-D08-S

PLOT DATE: 9/22/2023 9:48:50 AM SAVE DATE: 7/7/2023 1:10:47 PM PIPER, ADAM

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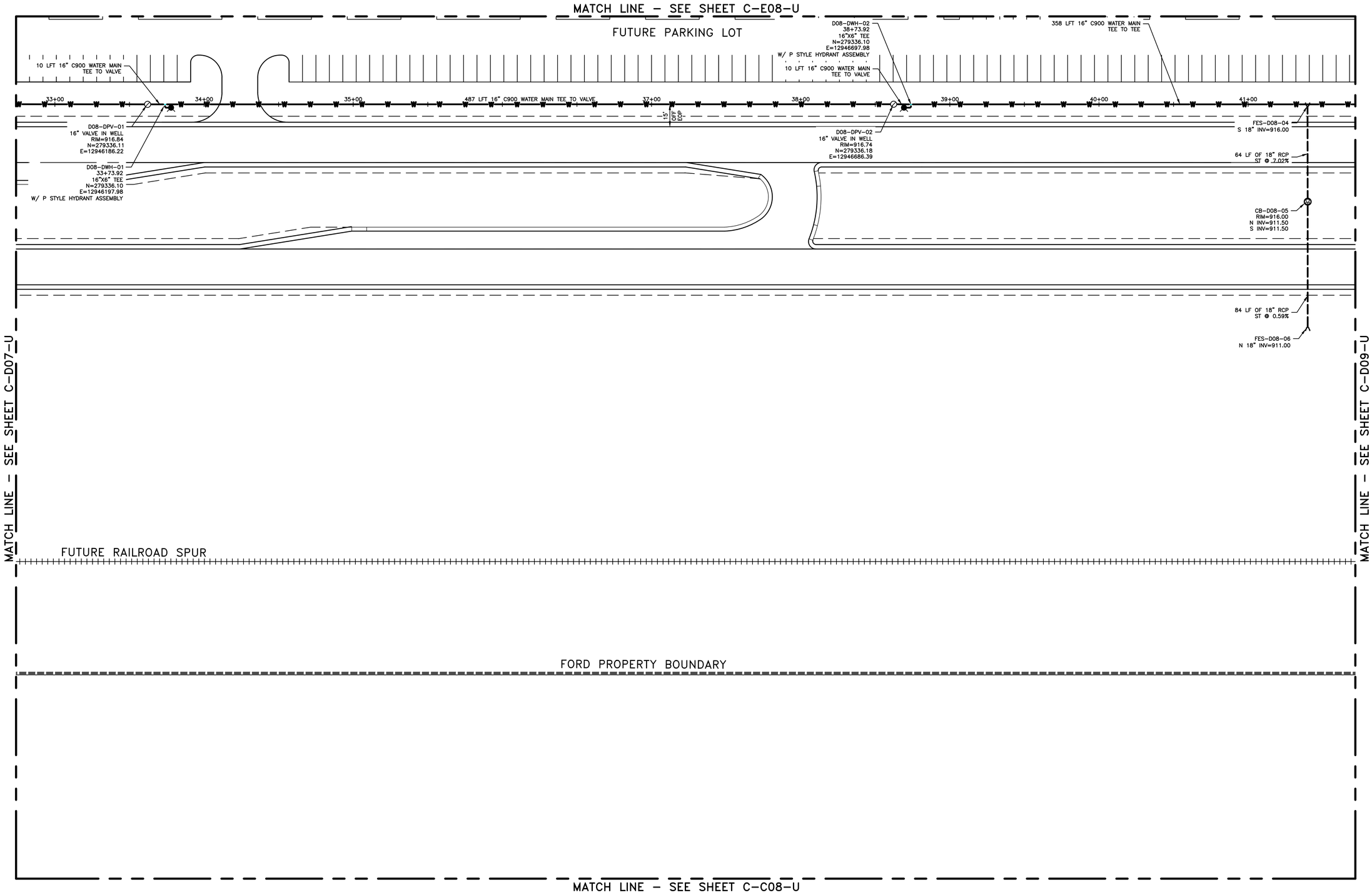

NORTH

PARTIAL D08 UTILITY PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
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ENGINEER
NO. 45667
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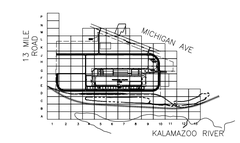

KEY PLAN

SCALE: NO SCALE

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A/E TEAM INFORMATION

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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL D08
UTILITY PLAN

SHEET NUMBER

C-D08-U

PLOT DATE: 9/22/2023 9:50:49 AM SAVE DATE: 9/21/2023 3:25:04 PM PIPER, ADAM C:\Users\apiper\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid D\2000000-C-PLTS-D08-U-A22-WADE.dwg

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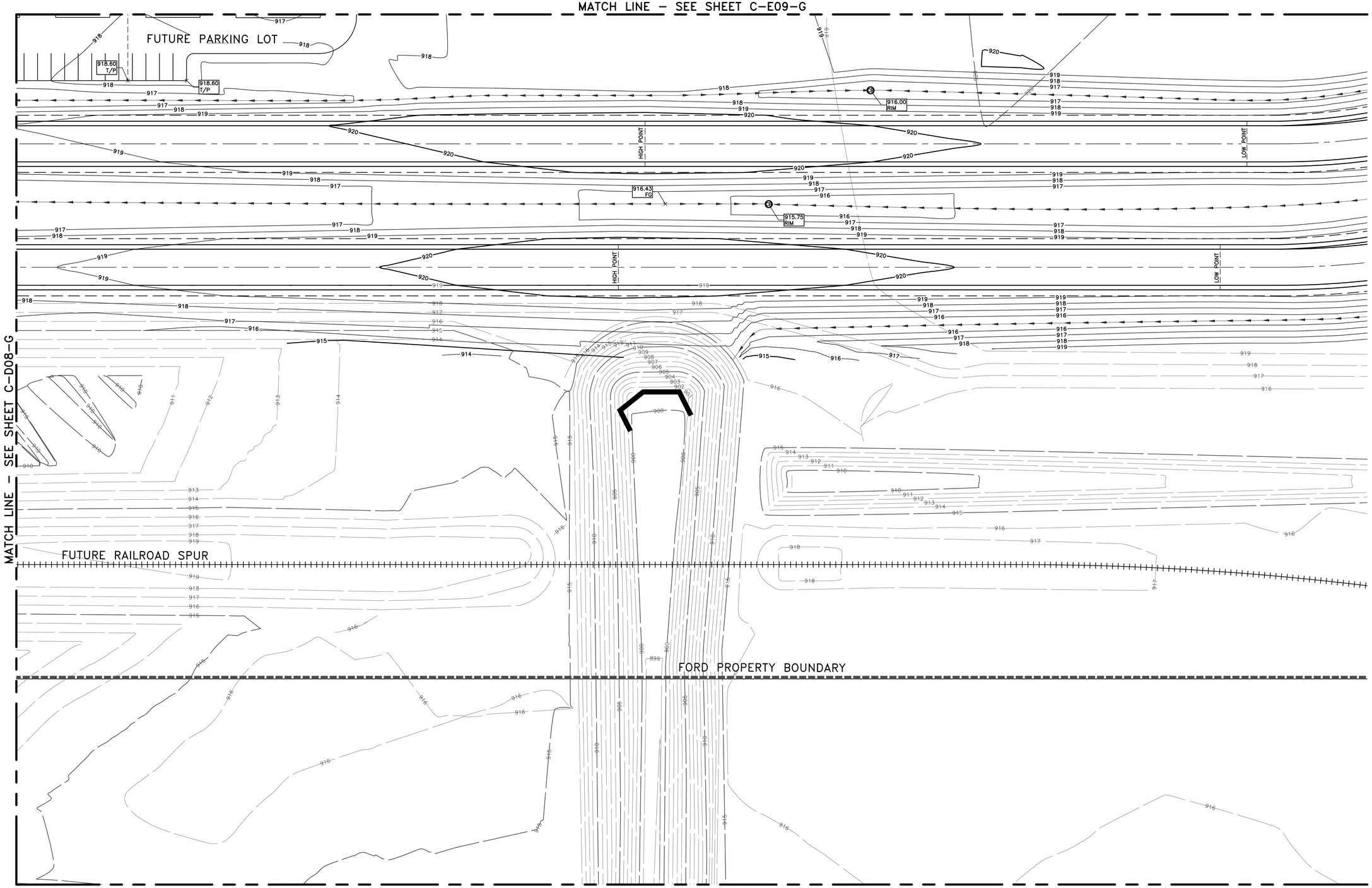

NORTH

PARTIAL D09 GRADING PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
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ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

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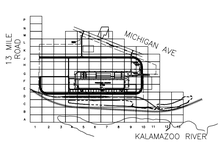

KEY PLAN

SCALE: NO SCALE

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL D09
GRADING PLAN

SHEET NUMBER

C-D09-G

PLOT DATE: 9/22/2023 9:52:22 AM SAVE DATE: 9/21/2023 10:57:22 AM PIPER, ADAM C:\Users\apiper\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid D\2000000-C-PLTS-DO9-G-A22-WADE.dwg

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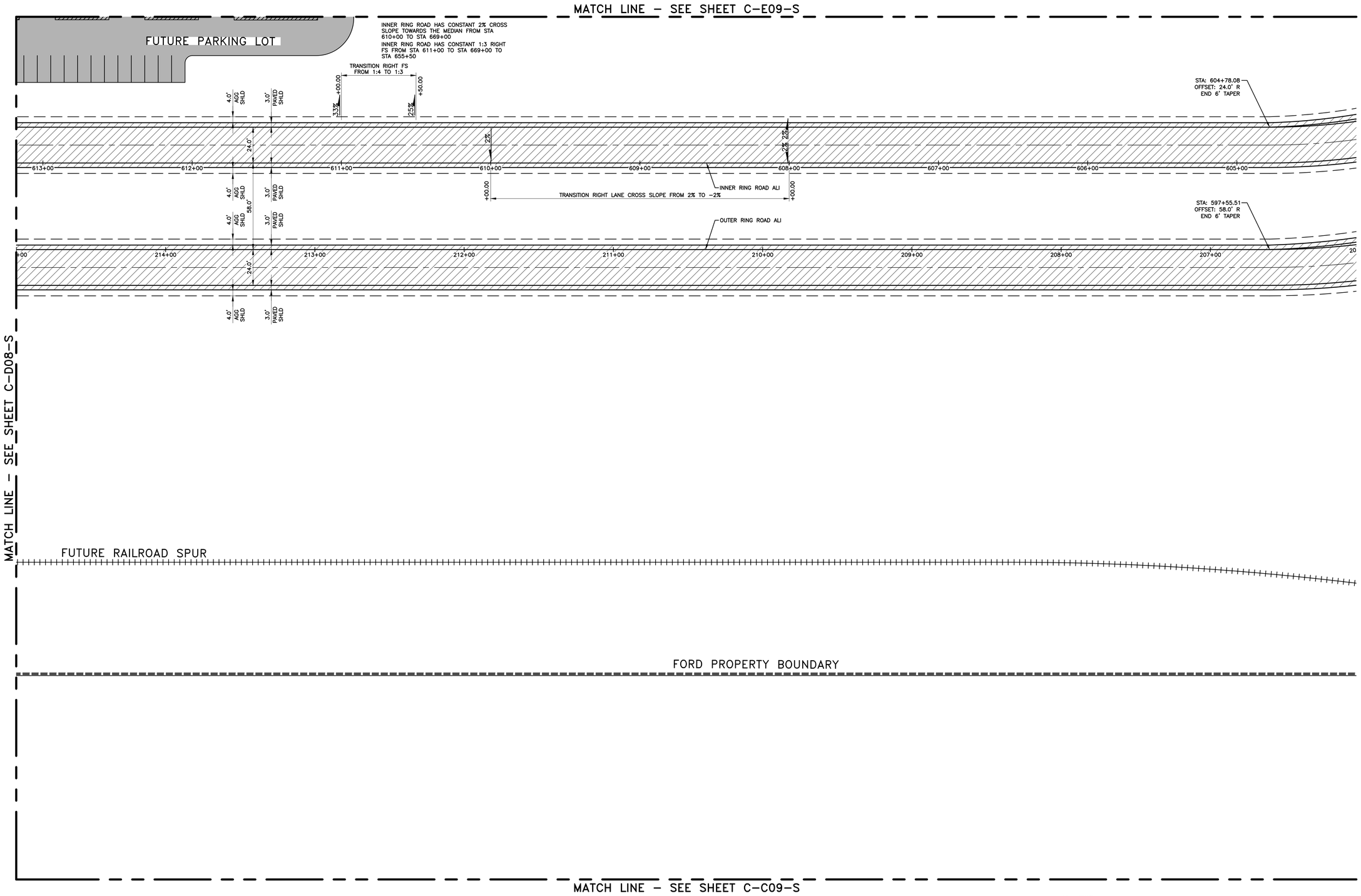
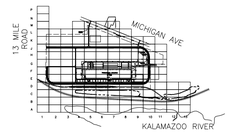


NORTH

PARTIAL D09 SITE PLAN

SCALE: 1"=30"

NOT FOR CONSTRUCTION



KEY PLAN

SCALE: NO SCALE

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IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL D09
SITE PLAN

SHEET NUMBER

C-D09-S

PLOT DATE: 9/22/2023 9:53:57 AM SAVE DATE: 8/31/2023 4:30:18 PM PIPER, ADAM C:\Users\apiper\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid D\2000000-C-PLTS-D09-S-AZ2-WADE.dwg

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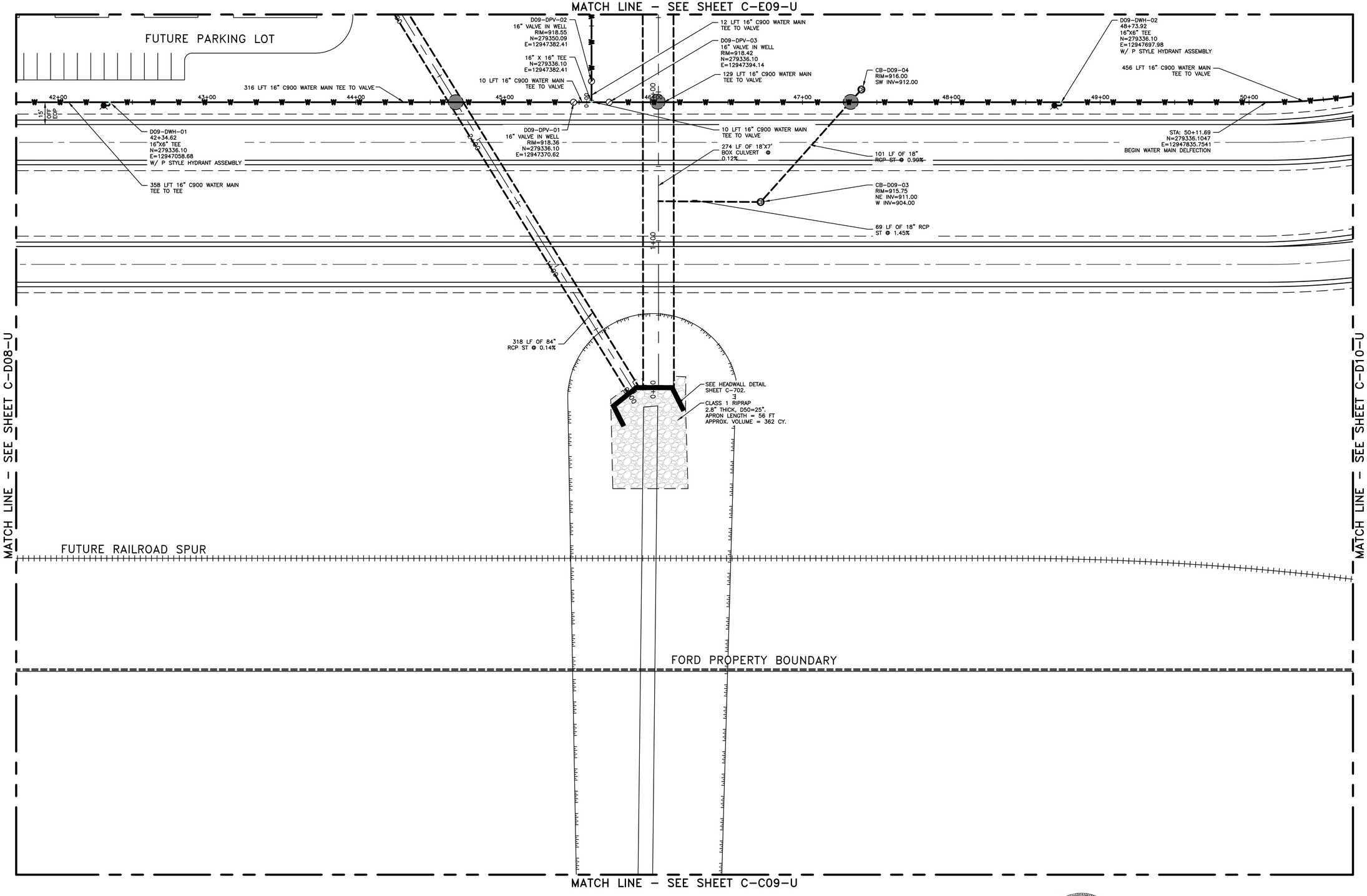

NORTH

PARTIAL D09 UTILITY PLAN

SCALE: 1"=30"

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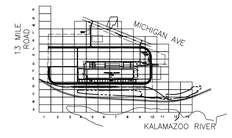

KEY PLAN

SCALE: NO SCALE

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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL D09
UTILITY PLAN

SHEET NUMBER

C-D09-U

PLOT DATE: 9/22/2023 9:55:21 AM
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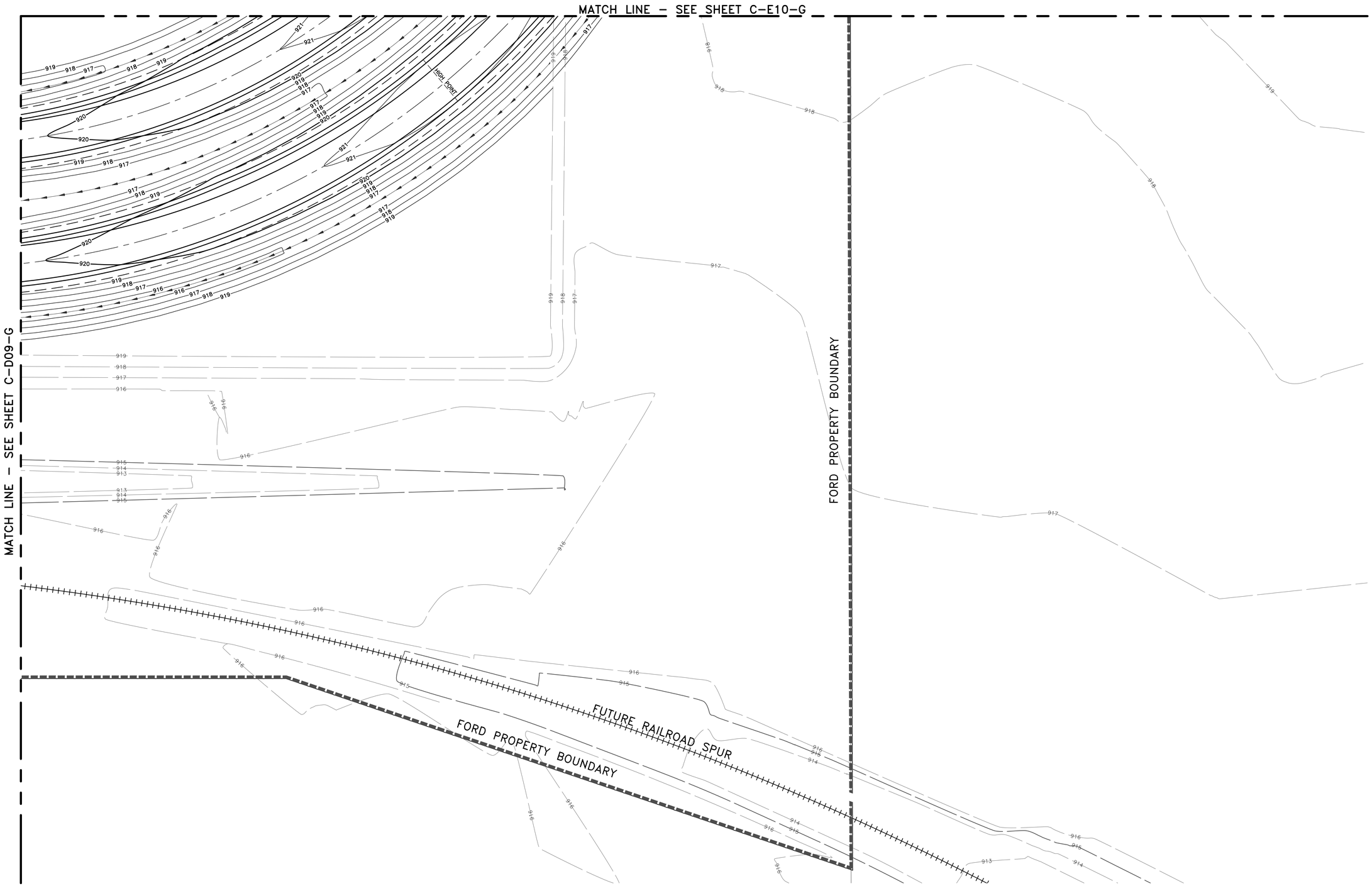

NORTH

PARTIAL D10 GRADING PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
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ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

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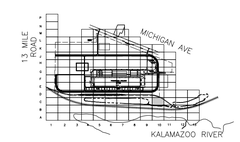

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SCALE: NO SCALE

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BATTERY PLANT

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IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL D10
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C-D10-G

PLOT DATE: 9/22/2023 9:56:49 AM SAVE DATE: 9/15/2023 9:48:31 PM PIPER, ADAM C:\Users\apiper\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid D\2000000-C-PLTS-D10-G-A22-WADE.dwg

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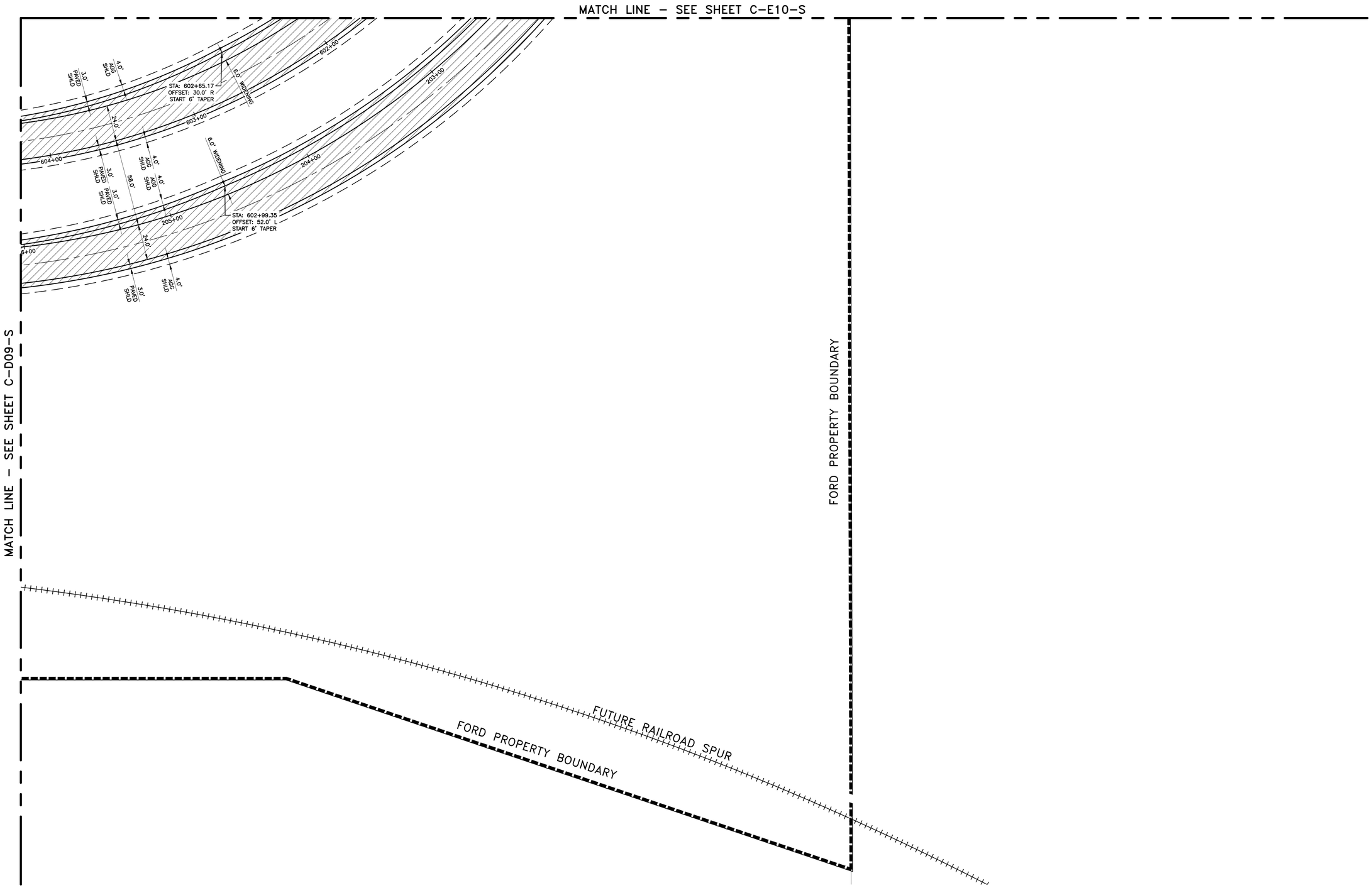

NORTH

SCALE: 1"=30"

PARTIAL D10 SITE PLAN

STATE OF MICHIGAN
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ENGINEER
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LICENSED PROFESSIONAL ENGINEER

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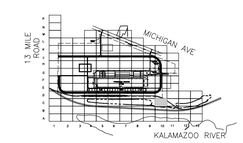

KEY PLAN

SCALE: NO SCALE

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BATTERY PLANT

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DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL D10
SITE PLAN

SHEET NUMBER

C-D10-S

PLOT DATE: 9/22/2023 9:57:50 AM SAVE DATE: 9/21/2023 4:30:10 PM PIPER, ADAM C:\Users\apiper\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid D\2000000-C-PLTS-D10-S-A22-WADE.dwg

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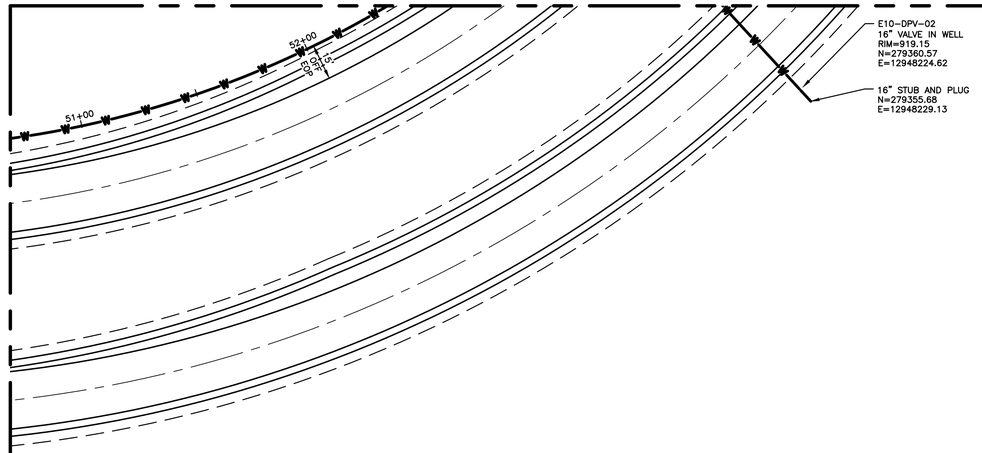

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FUTURE RAILROAD SPUR

NORTH

PARTIAL D10 UTILITY PLAN

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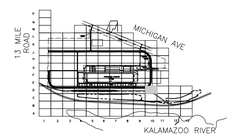

KEY PLAN

SCALE: NO SCALE

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USA

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BATTERY PARK
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BATTERY PLANT

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DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL D10
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SHEET NUMBER

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PLOT DATE: 9/22/2023 8:59:04 AM
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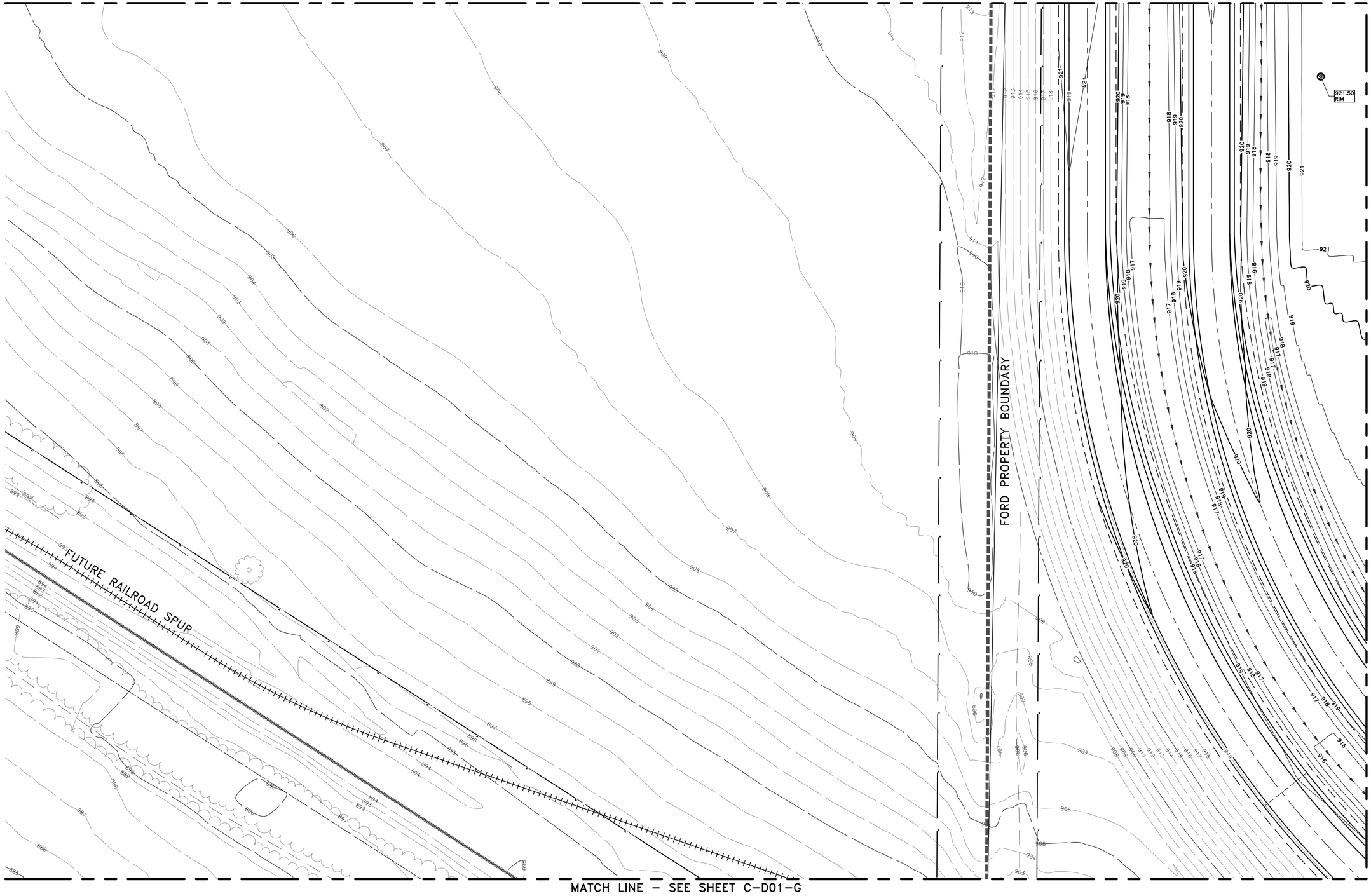

MATCH LINE – SEE SHEET C-E02-G

MATCH LINE – SEE SHEET C-D01-G

NORTH

PARTIAL E01 GRADING PLAN
SCALE: 1"=30"

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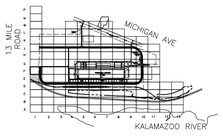

KEY PLAN
SCALE: NO SCALE

FORDLAND

17000 ROTUNDA DR, 1ST FLOOR SOUTH
DEARBORN, MICHIGAN 48120-1168
USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL E01
GRADING PLAN

SHEET NUMBER

C-E01-G

PLOT DATE: 9/22/2023 10:00:37 AM SAVE DATE: 9/20/2023 4:06:26 PM PIPER, ADAM C:\Users\apiper\DOCACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\GRE E02000000-CPLTE-EPI-GRAZE-WADE.dwg

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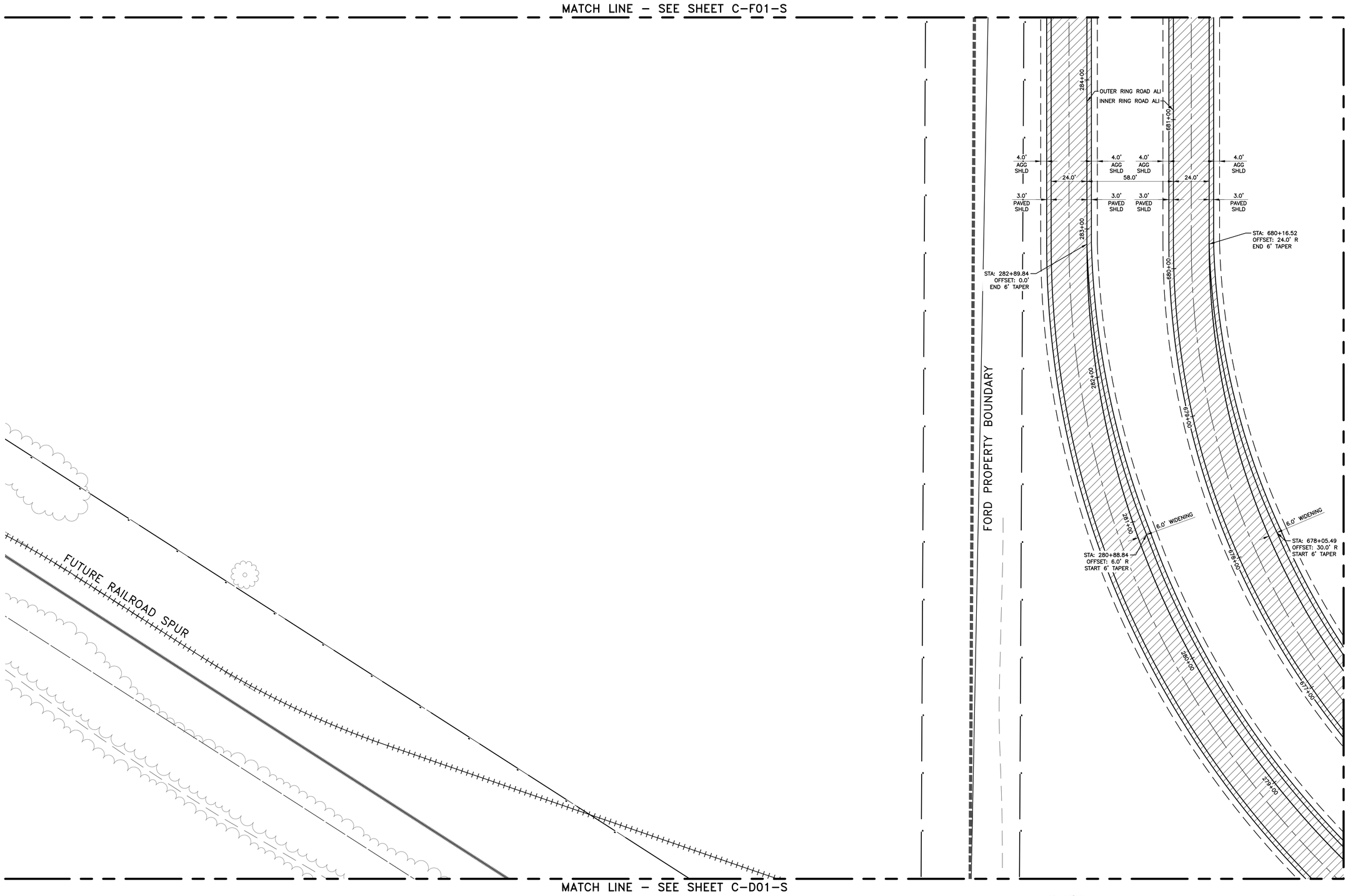


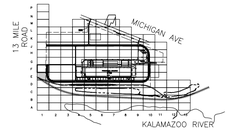
NORTH

PARTIAL E01 SITE PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION



KEY PLAN

SCALE: NO SCALE

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USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL E01
SITE PLAN

SHEET NUMBER

C-E01-S

PLOT DATE: 9/22/2023 10:01:38 AM SAVE DATE: 9/7/2023 1:01:47 PM PIPER, ADAM

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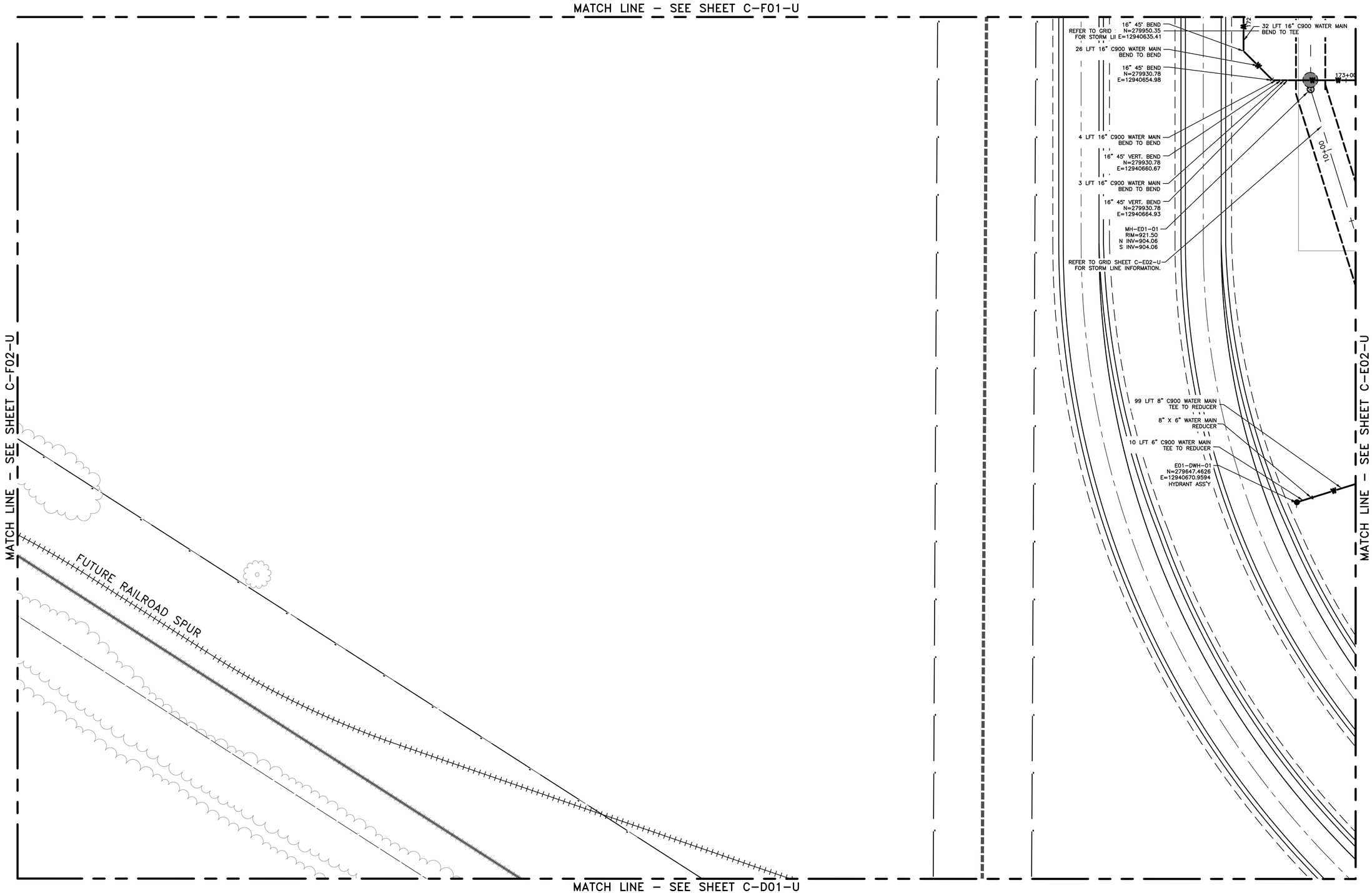

NORTH

PARTIAL E01 UTILITY PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

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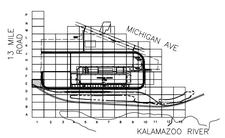

KEY PLAN

SCALE: NO SCALE

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USA

Ford

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MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL E01
UTILITY PLAN

SHEET NUMBER

C-E01-U

PLOT DATE: 9/22/2023 10:03:02 AM SAVE DATE: 9/20/2023 4:07:59 PM PIPER, ADAM

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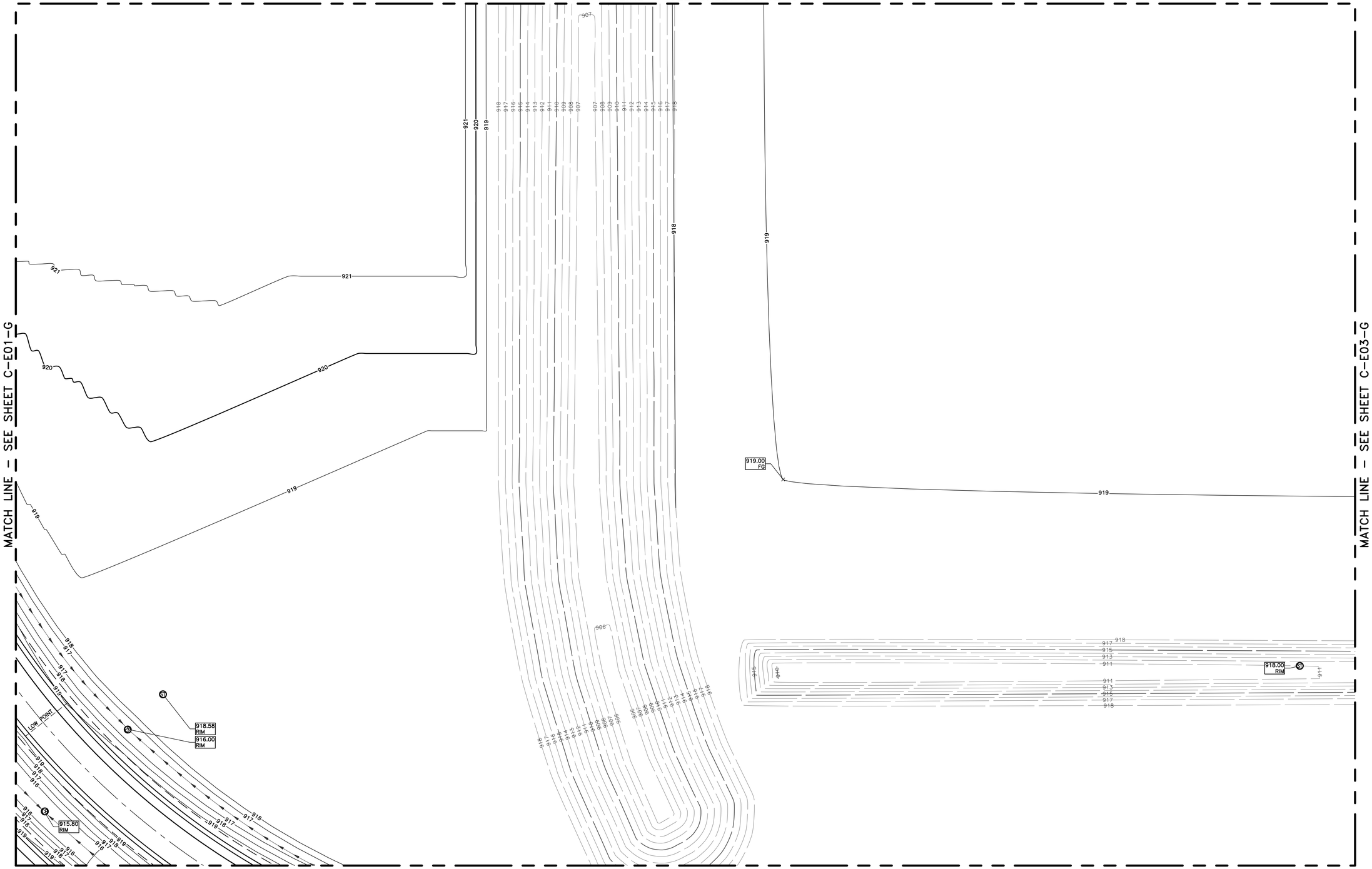
MATCH LINE – SEE SHEET C-E01-G

MATCH LINE – SEE SHEET C-E03-G

MATCH LINE – SEE SHEET C-D02-G



NORTH

PARTIAL E02 GRADING PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
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ENGINEER
NO. 45667
REGISTERED PROFESSIONAL ENGINEER

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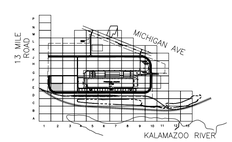

KEY PLAN

SCALE: NO SCALE

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USA

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BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL E02
GRADING PLAN

SHEET NUMBER

C-E02-G

PLOT DATE: 9/22/2023 10:04:37 AM SAVE DATE: 9/15/2023 11:30:55 PM PIPER, ADAM C:\Users\apiper\DCA\CCDocs\Wade Trim\FRD20111-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid E\2000000-C-PLTS-E02-S-A22-WADE.dwg

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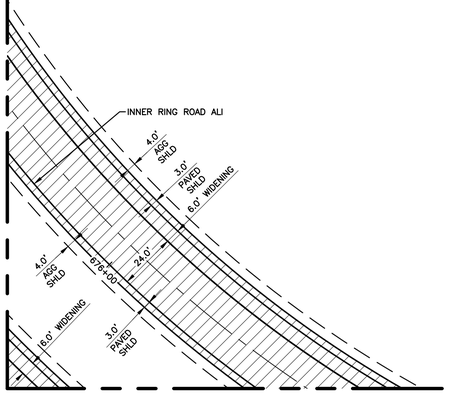

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NORTH

PARTIAL E02 SITE PLAN

SCALE: 1"=30"

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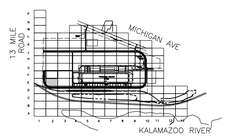

KEY PLAN

SCALE: NO SCALE

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USA

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BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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ENGINEER
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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL E02
SITE PLAN

SHEET NUMBER

C-E02-S

PLOT DATE: 9/22/2023 10:05:38 AM SAVE DATE: 9/12/2023 12:31:38 PM PIPER, ADAM C:\Users\apiper\DCA\CCDocs\Wade Trim\FRD20011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid E\2000080-C-PLTS-E02-S-A22-WADE.dwg

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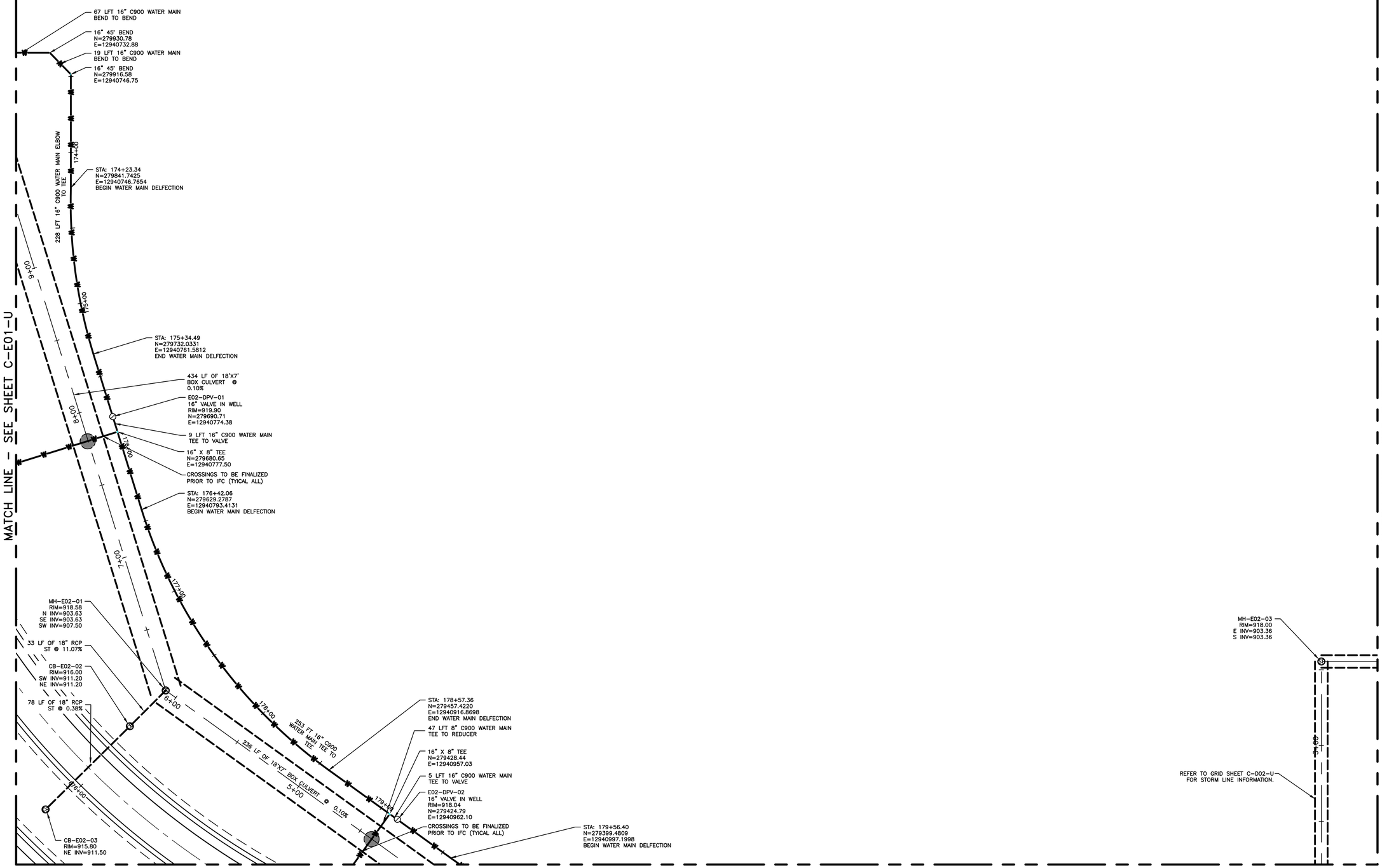

MATCH LINE – SEE SHEET C-E01-U

MATCH LINE – SEE SHEET C-E03-U

MATCH LINE – SEE SHEET C-D02-U

NORTH

PARTIAL E02 UTILITY PLAN

SCALE: 1"=30"

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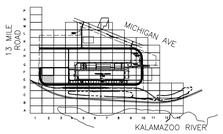

KEY PLAN

SCALE: NO SCALE

FORD LAND
17000 ROTUNDA DR, 1ST FLOOR SOUTH
DEARBORN, MICHIGAN 48120-1168
USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL E02
UTILITY PLAN

SHEET NUMBER

C-E02-U

PLOT DATE: 9/22/2023 10:07:25 AM SAVE DATE: 9/5/2023 2:01:47 PM PIPER, ADAM C:\Users\apiper\DOCACC\Docs\Wade Trim\FRD2001-06F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid E2000060-C-P-E1S-E02-UAC-24ABE.dwg

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MATCH LINE – SEE SHEET C-E02-G

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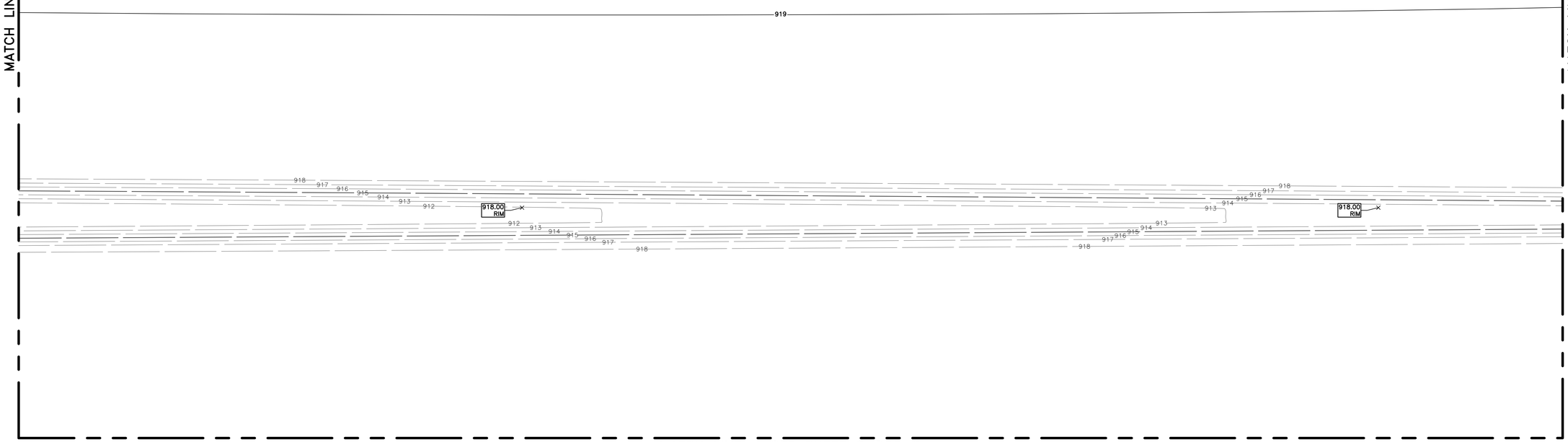

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NORTH

PARTIAL E03 GRADING PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
REGISTERED PROFESSIONAL ENGINEER

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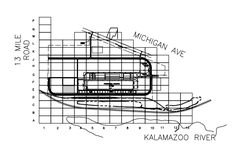

KEY PLAN

SCALE: NO SCALE

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USA

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BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL E03
GRADING PLAN

SHEET NUMBER

C-E03-G

PLOT DATE: 9/22/2023 10:09:10 AM SAVE DATE: 8/31/2023 10:45:23 AM PIPER, ADAM C:\Users\apiper\DCACCDocs\Wade Trim\FRD20111-06F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid E02000000-C-PLTS-E03-S-A22-WADE.dwg

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NORTH

PARTIAL E03 SITE PLAN

SCALE: 1"=30"

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ENGINEER
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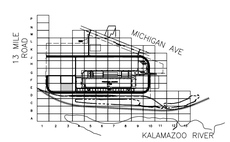

KEY PLAN

SCALE: NO SCALE

FORD LAND

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USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL E03
SITE PLAN

SHEET NUMBER

C-E03-S

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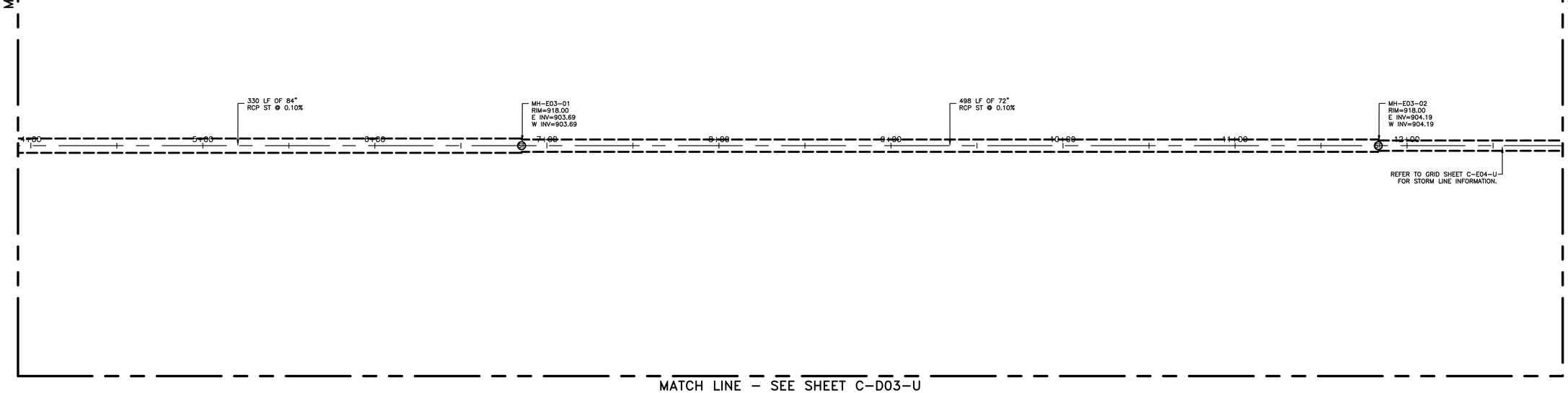
MATCH LINE – SEE SHEET C–E02–U

MATCH LINE – SEE SHEET C–E04–U



MATCH LINE – SEE SHEET C–D03–U

NORTH

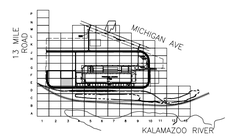
PARTIAL E03 UTILITY PLAN

SCALE: 1"=30"

Know what's below. Call before you dig.

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION



KEY PLAN

SCALE: NO SCALE

FORD LAND

17000 ROTUNDA DR, 1ST FLOOR SOUTH
DEARBORN, MICHIGAN 48120-1168
USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

A/E OF RECORD LOGO

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734.947.9700
www.wadetrim.com

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09/22/23	• BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT
08/31/23	• BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT

A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL E03
UTILITY PLAN

SHEET NUMBER

C-E03-U

PLOT DATE: 9/22/2023 10:11:12 AM SAVE DATE: 9/29/2023 1:51:21 PM PIPER, ADAM C:\Users\apiper\DOCACDocs\Wade Trim\FRD2301-06F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Sht E02000SC-CPLTG E03-U-A2C-HVAC.dwg

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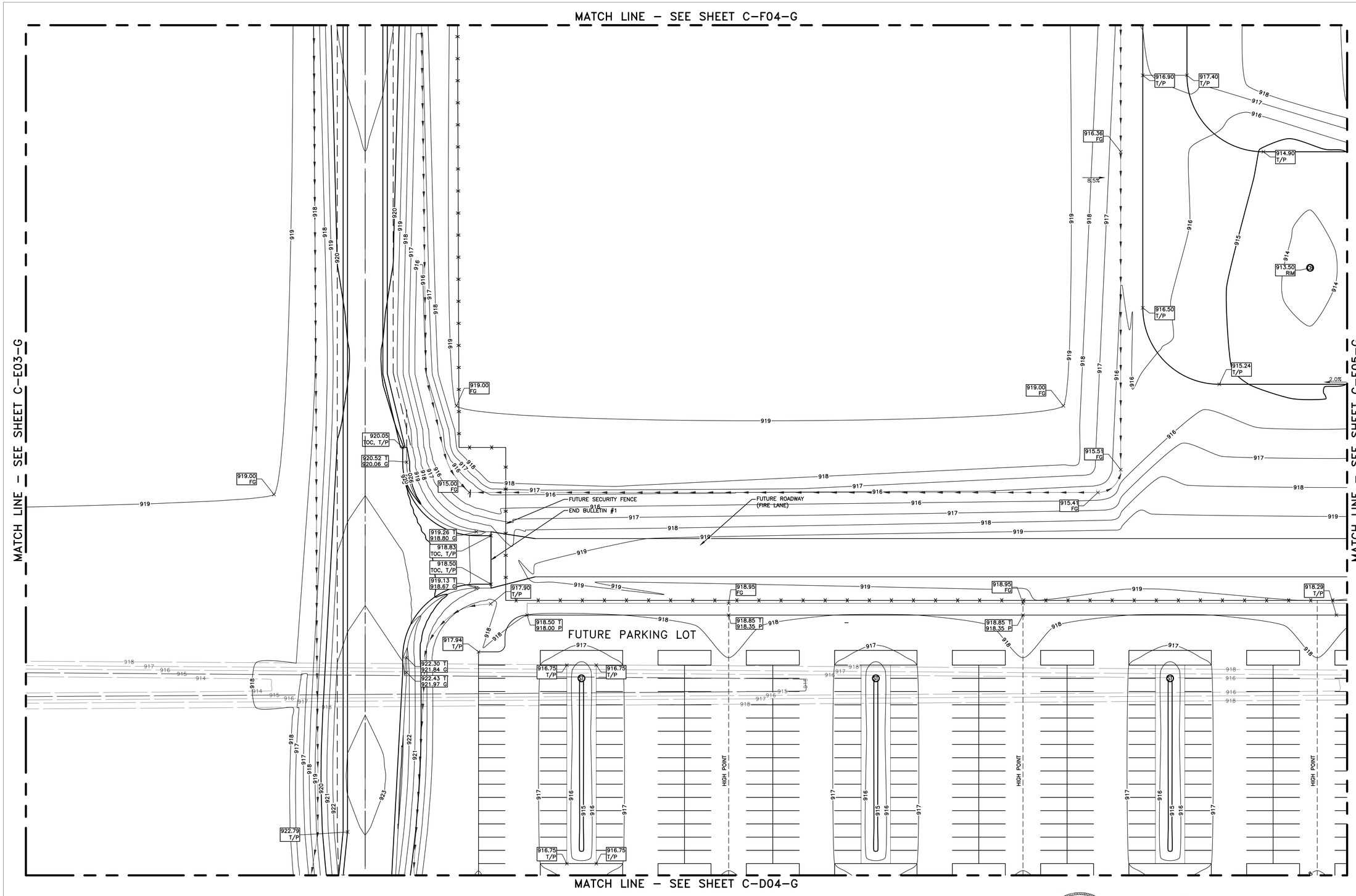


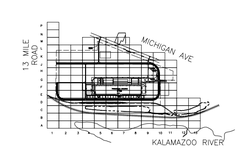
NORTH

PARTIAL E04 GRADING PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION



KEY PLAN

SCALE: NO SCALE

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DEARBORN, MICHIGAN 48120-1168
USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL E04
GRADING PLAN

SHEET NUMBER

C-E04-G

PLOT DATE: 9/22/2023 10:12:15 AM SAVE DATE: 9/21/2023 11:24:34 AM PIPER, ADAM

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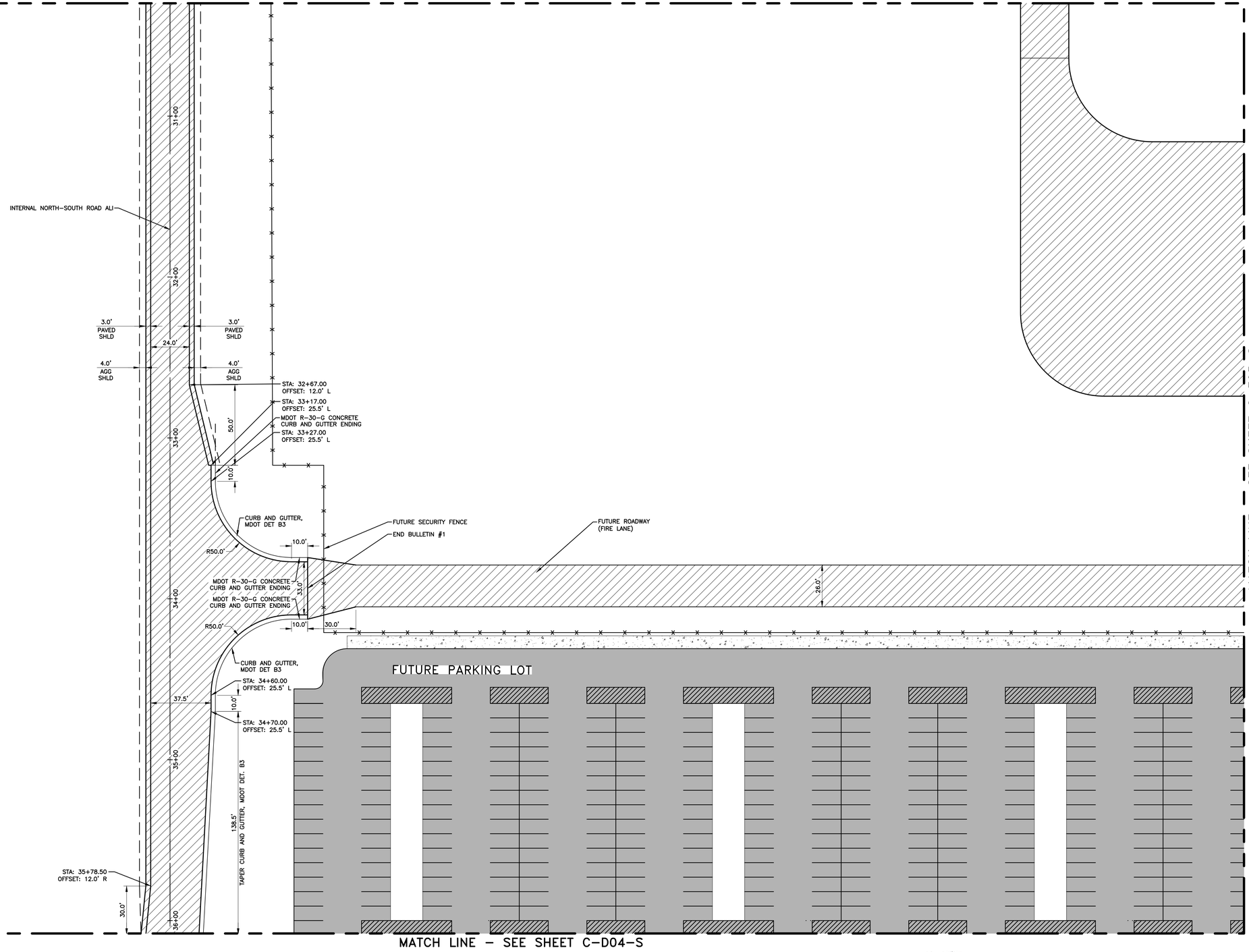
MATCH LINE – SEE SHEET C-F04-S

MATCH LINE – SEE SHEET C-E03-S

MATCH LINE – SEE SHEET C-E05-S

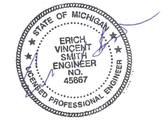


MATCH LINE – SEE SHEET C-D04-S

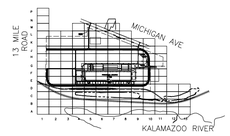
NORTH

PARTIAL E04 SITE PLAN

SCALE: 1"=30"



NOT FOR CONSTRUCTION



KEY PLAN

SCALE: NO SCALE

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DEARBORN, MICHIGAN 48120-1168
USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

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DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL E04
SITE PLAN

SHEET NUMBER

C-E04-S

PLOT DATE: 9/22/2023 10:13:00 AM SAVE DATE: 8/30/2023 9:42:24 AM PIPER, ADAM C:\Users\piper.ADAC\Documents\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid E2000080-GP-E15-E04-S-A2-WHADE.dwg

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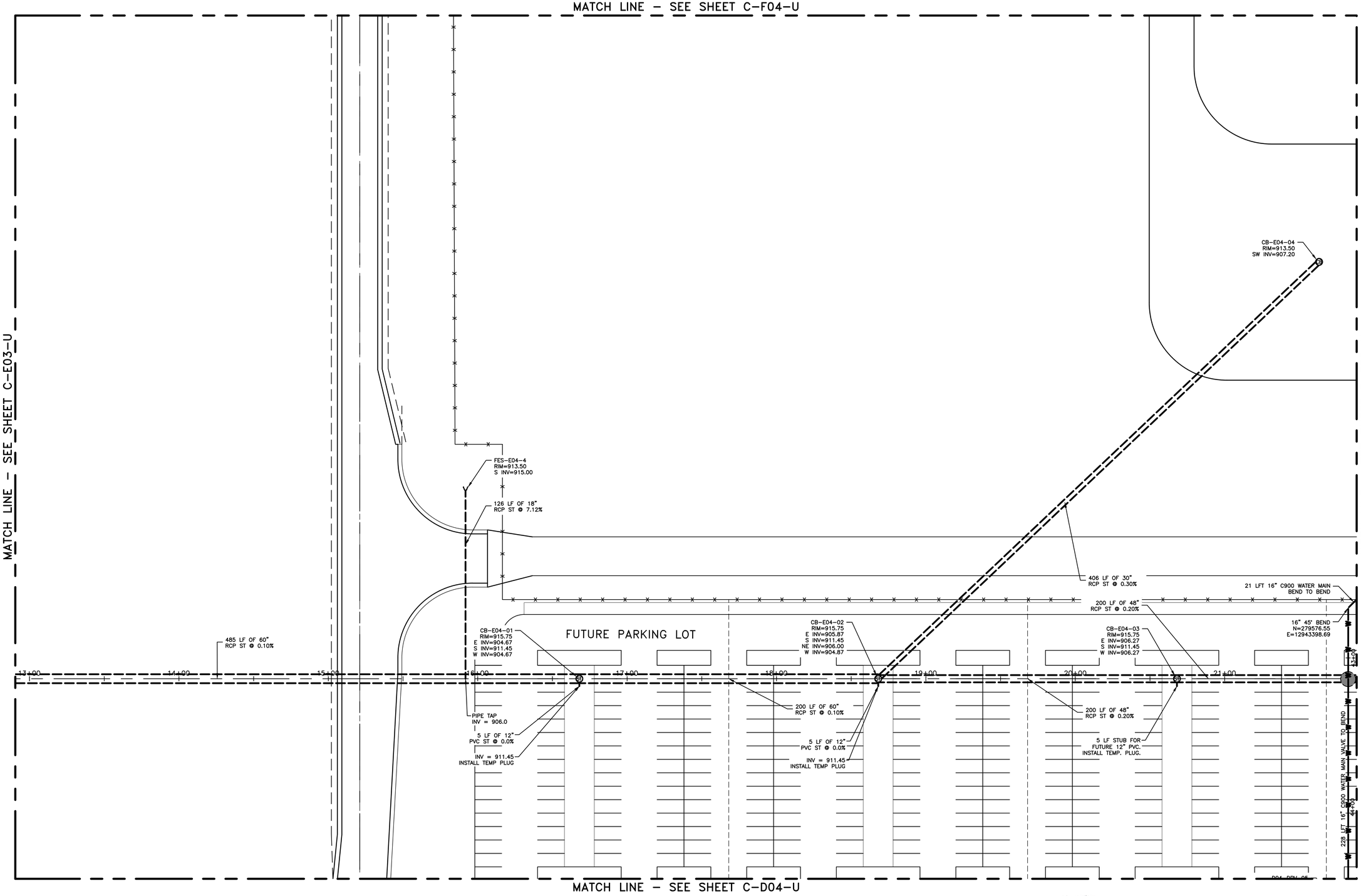
MATCH LINE – SEE SHEET C-E03-U

MATCH LINE – SEE SHEET C-E05-U



MATCH LINE – SEE SHEET C-D04-U

NORTH

PARTIAL E04 UTILITY PLAN

SCALE: 1"=30"

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STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

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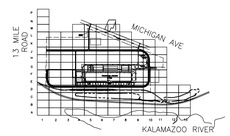

KEY PLAN

SCALE: NO SCALE

FORD LAND

17000 ROTUNDA DR, 1ST FLOOR SOUTH
DEARBORN, MICHIGAN 48120-1168
USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION	
IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL E04
UTILITY PLAN

SHEET NUMBER

C-E04-U

PLOT DATE: 9/22/2023 10:14:05 AM SAVE DATE: 9/12/2023 11:01:08 AM PIPER, ADAM C:\Users\apiper\DCAC\Docs\Wade Trim\FRD\2011-d5F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheetsford E2000809C-PLTS-ECM-UAD-WADE.dwg

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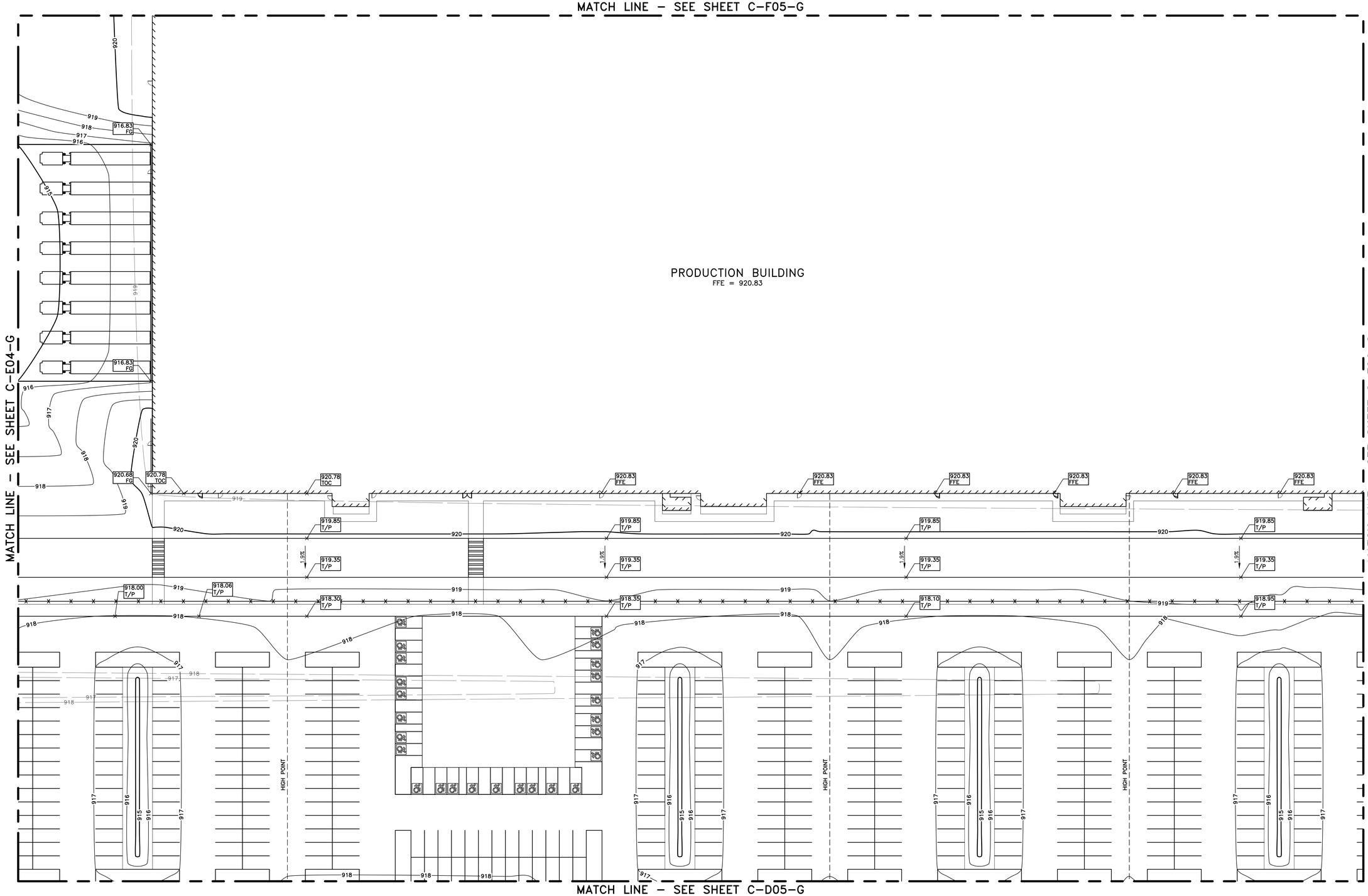
MATCH LINE – SEE SHEET C–E04–G

MATCH LINE – SEE SHEET C–E06–G

PRODUCTION BUILDING
FFE = 920.83



MATCH LINE – SEE SHEET C–D05–G

NORTH

PARTIAL E05 GRADING PLAN
SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

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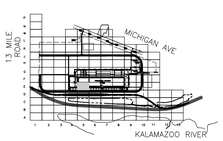

KEY PLAN
SCALE: NO SCALE

811
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DEARBORN, MICHIGAN 48120-1168
USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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www.wadetrim.com

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL E05
GRADING PLAN

SHEET NUMBER

C-E05-G

PLOT DATE: 9/22/2023 10:14:48 AM SAVE DATE: 9/22/2023 10:22:31 AM PIPER_A0.MM C:\Users\piper.ODCA\CCDocs\Wade Trim\FRD\2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid E\2005000-GP-E1S-E05-GA2-WADE.dwg

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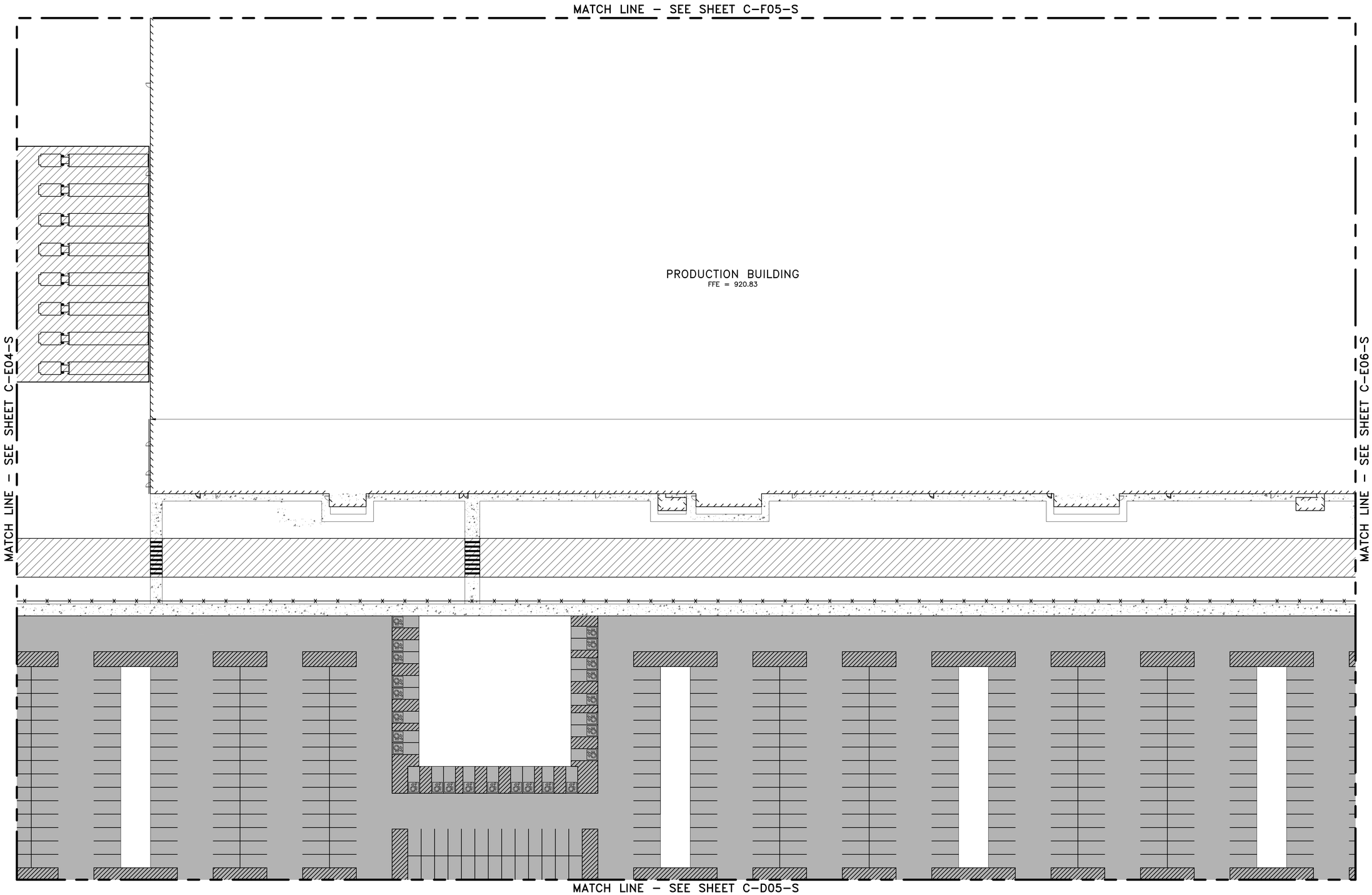
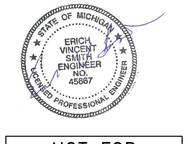


NORTH

PARTIAL E05 SITE PLAN

SCALE: 1"=30"



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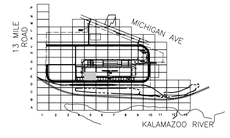

KEY PLAN

SCALE: NO SCALE

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FORDLAND

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DEARBORN, MICHIGAN 48120-1168
USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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08/31/23	BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT

A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL E05
SITE PLAN

SHEET NUMBER

C-E05-S

PLOT DATE: 9/22/2023 10:15:31 AM SAVE DATE: 30/2023 1:55:12 PM PIPER, ADAM

C:\Users\apiper\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid E\2000000-C-PLTS-E05-S-A22-WADE.dwg

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MATCH LINE – SEE SHEET C–F05–U

MATCH LINE – SEE SHEET C–E04–U

MATCH LINE – SEE SHEET C–E06–U

PRODUCTION BUILDING
FFE = 920.83

E05–DWH–02
10+90.62
16"X6" TEE
N=279592.10
E=12943914.69
W/ P STYLE HYDRANT ASSEMBLY

10 LFT 16" C900 WATER MAIN
TEE TO VALVE

E05–DPV–01
16" VALVE IN WELL
RIM=919.10
N=279592.10
E=12943926.39

21 LFT 16" C900 WATER MAIN
BEND TO BEND
16" 45° BEND
N=279592.10
E=12943414.25

E05–DWH–01
7+74.80
16"X6" TEE
N=279592.10
E=12943598.87
W/ P STYLE HYDRANT ASSEMBLY

183 LFT 16" C900 WATER MAIN BEND TO TEE

313 LFT 16" C900 WATER MAIN TEE TO TEE

487 LFT 16" C900 WATER MAIN TEE TO VALVE

42+00 41+00 40+00 39+00 38+00 37+00 36+00 35+00 34+00

INV = 909.66.
INSTALL TEMPORARY PLUG
OR BULKHEAD.

20 LF OF 24" RCP
ST @ 0.79%

CB–E05–01
RIM=915.75
E INV=906.67
N INV=909.50
S INV=911.45
W INV=906.67

362 LF OF 48"
RCP ST @ 0.20%

INV = 910.17.
INSTALL TEMPORARY PLUG
OR BULKHEAD.

20 LF OF 24" RCP
ST @ 0.83%

CB–E05–02
RIM=915.75
E INV=907.39
N INV=910.00
S INV=911.45
W INV=907.39

INV = 910.17.
INSTALL TEMPORARY PLUG
OR BULKHEAD.

20 LF OF 18" RCP
ST @ 0.83%

CB–E05–03
RIM=915.75
E INV=907.79
N INV=910.00
S INV=911.45
W INV=907.79

INV = 910.16.
INSTALL TEMPORARY PLUG
OR BULKHEAD.

20 LF OF 18" RCP
ST @ 0.80%

CB–E05–04
RIM=915.75
N INV=910.00
S INV=911.45
W INV=908.19

22+00 23+00 24+00 25+00 26+00 27+00 28+00 29+00 30+00 30+30

REFER TO GRID
SHEET C–E04–U
FOR STORM LINE
INFORMATION.

5 LF 12"
PVC. ST @ 0.0%

INV = 910.50
INSTALL TEMP PLUG

5 LF 12"
PVC ST @ 0.0%

INV = 911.45
INSTALL TEMP PLUG

200 LF OF 42"
RCP ST @ 0.20%

5 LF 12"
PVC ST @ 0.0%

INV = 911.45
INSTALL TEMP PLUG

200 LF OF 42"
RCP ST @ 0.20%

5 LF 12"
PVC ST @ 0.0%

INV = 911.45
INSTALL TEMP PLUG

MATCH LINE – SEE SHEET C–D05–U

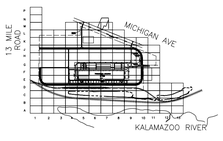
NORTH

PARTIAL E05 UTILITY PLAN
SCALE: 1"=30"

Know what's below.
Call before you dig.

NOT FOR CONSTRUCTION

KEY PLAN
SCALE: NO SCALE



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USA

BLUE OVAL
BATTERY PARK
MICHIGAN
BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE
PARTIAL E05
UTILITY PLAN

SHEET NUMBER
C-E05-U

PLOT DATE: 9/22/2023 10:16:25 AM
SAVE DATE: 9/21/2023 11:38:36 AM
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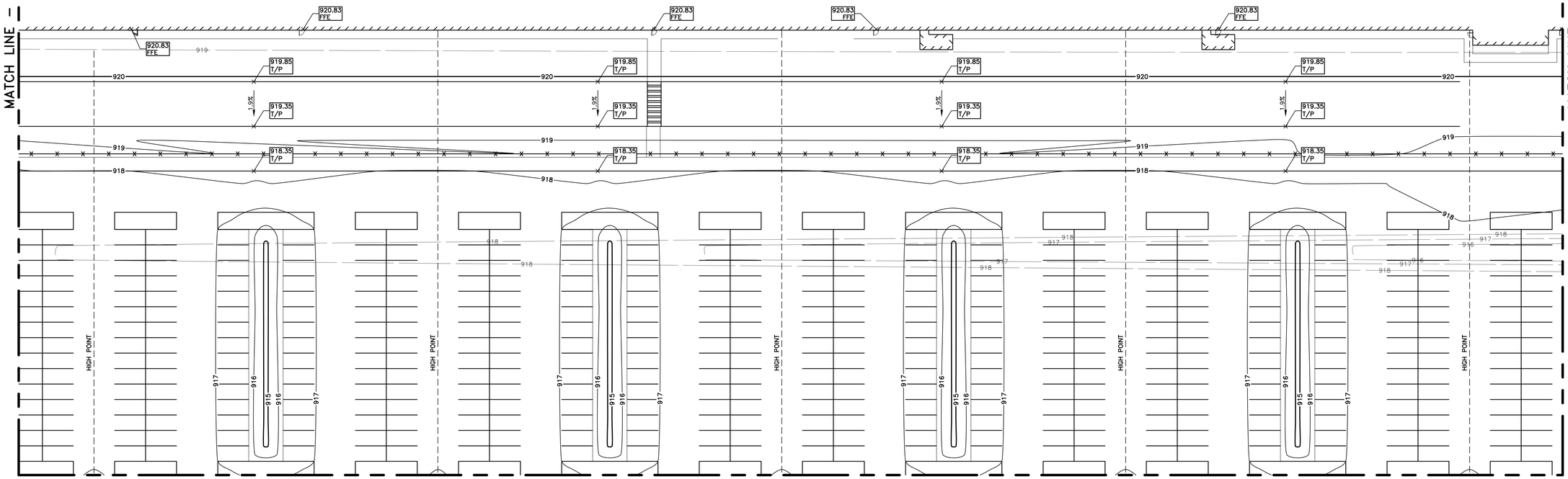
MATCH LINE – SEE SHEET C-F06-G

MATCH LINE – SEE SHEET C-E05-G

MATCH LINE – SEE SHEET C-E07-G

PRODUCTION BUILDING
FFE = 920.83



MATCH LINE – SEE SHEET C-D06-G

NORTH

PARTIAL E06 GRADING PLAN
SCALE: 1"=30"

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ENGINEER
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REGISTERED PROFESSIONAL ENGINEER

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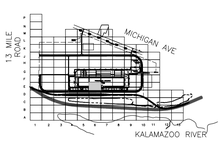

KEY PLAN
SCALE: NO SCALE

811
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BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL E06
GRADING PLAN

SHEET NUMBER

C-E06-G

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MATCH LINE – SEE SHEET C-E05-S

MATCH LINE – SEE SHEET C-E07-S

PRODUCTION BUILDING
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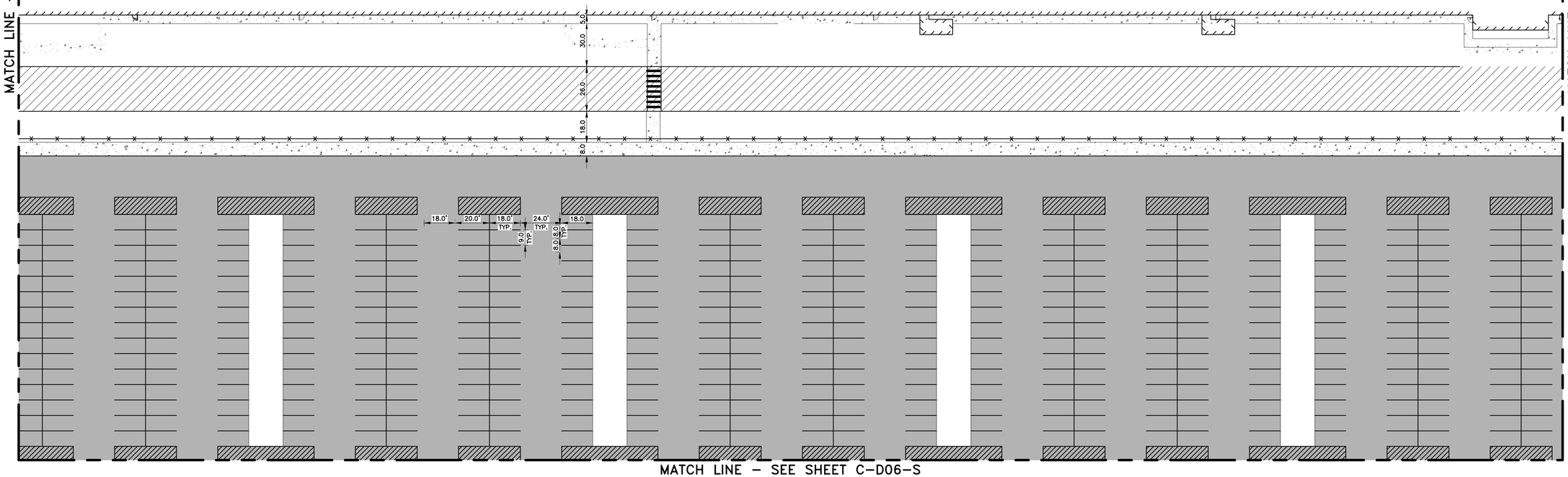

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SCALE: 1"=30"

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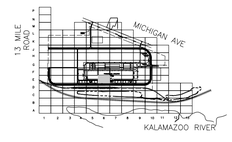

KEY PLAN
SCALE: NO SCALE

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL E06
SITE PLAN

SHEET NUMBER

C-E06-S

PLOT DATE: 9/22/2023 10:17:50 AM SAVE DATE: 9/20/2023 1:44:39 PM PIPER, ADAM C:\Users\piper\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid E2000000-C-PLTS-E06-S-AA22-WADE.dwg

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MATCH LINE – SEE SHEET C-E05-U

MATCH LINE – SEE SHEET C-E07-U

PRODUCTION BUILDING
FFE = 920.83

E06-DWH-01
20+90.64
16"X6" TEE
N=279592.09
E=12944914.70
W/ P STYLE HYDRANT ASSEMBLY

10 LFT 16" C900 WATER MAIN
TEE TO VALVE

E06-DPV-01
16" VALVE IN WELL
RIM=919.10
N=279592.09
E=12944926.38

51 LFT 16" C900 WATER MAIN
TEE TO VALVE

16" 45° BEND
N=279592.09
E=12945170.35

E06-DWH-02
15+90.62
16"X6" TEE
N=279592.10
E=12944414.69
W/ P STYLE HYDRANT ASSEMBLY

498 LFT 16" C900 WATER MAIN TEE TO TEE

243 LFT 16" C900 WATER MAIN VALVE TO BEND

33+00 32+00 31+00 30+00 29+00 28+00 27+00 26+00 25+00

INV = 910.17,
INSTALL TEMPORARY PLUG
OR BULKHEAD.

INV = 910.16,
INSTALL TEMPORARY PLUG
OR BULKHEAD.

INV = 909.72,
INSTALL TEMPORARY PLUG
OR BULKHEAD.

PERMANENT PARKING AREA
±1600 SPACES

CB-E06-01
RIM=915.75
S INV=911.45
E INV=909.47

5 LF 12"
PVC ST @ 0.0%

INV = 911.45
INSTALL TEMP PLUG

20 LF OF 18" RCP
ST @ 0.85%

CB-E06-02
RIM=915.75
W INV=909.07
N INV=910.00
S INV=911.45
E INV=908.07

200 LF OF 24"
RCP ST @ 0.20%

5 LF OF 12"
PVC ST @ 0.0%

INV = 911.45
INSTALL TEMP PLUG

200 LF OF 36"
RCP ST @ 0.20%

20 LF OF 18" RCP
ST @ 0.82%

CB-E06-03
RIM=915.75
W INV=907.67
N INV=910.00
S INV=911.45
E INV=907.67

5 LF OF 12"
PVC ST @ 0.0%

INV = 911.45
INSTALL TEMP PLUG

200 LF OF 42"
RCP ST @ 0.20%

20 LF OF 18" RCP
ST @ 2.26%

CB-E06-04
RIM=915.75
W INV=907.27
S INV=911.45
N INV=909.27
E INV=907.27

5 LF OF 12"
PVC ST @ 0.0%

INV = 911.45
INSTALL TEMP PLUG

200 LF OF 42"
RCP ST @ 0.20%

31+81 31+00 30+00 29+00 28+00 27+00 26+00 25+00

MATCH LINE – SEE SHEET C-D06-U

NORTH

PARTIAL E06 UTILITY PLAN
SCALE: 1"=30"

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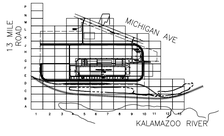

KEY PLAN
SCALE: NO SCALE

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IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL E06
UTILITY PLAN

SHEET NUMBER

C-E06-U

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SAVE DATE: 9/21/2023 11:46:40 AM

PLOT DATE: 9/22/2023 10:18:53 AM

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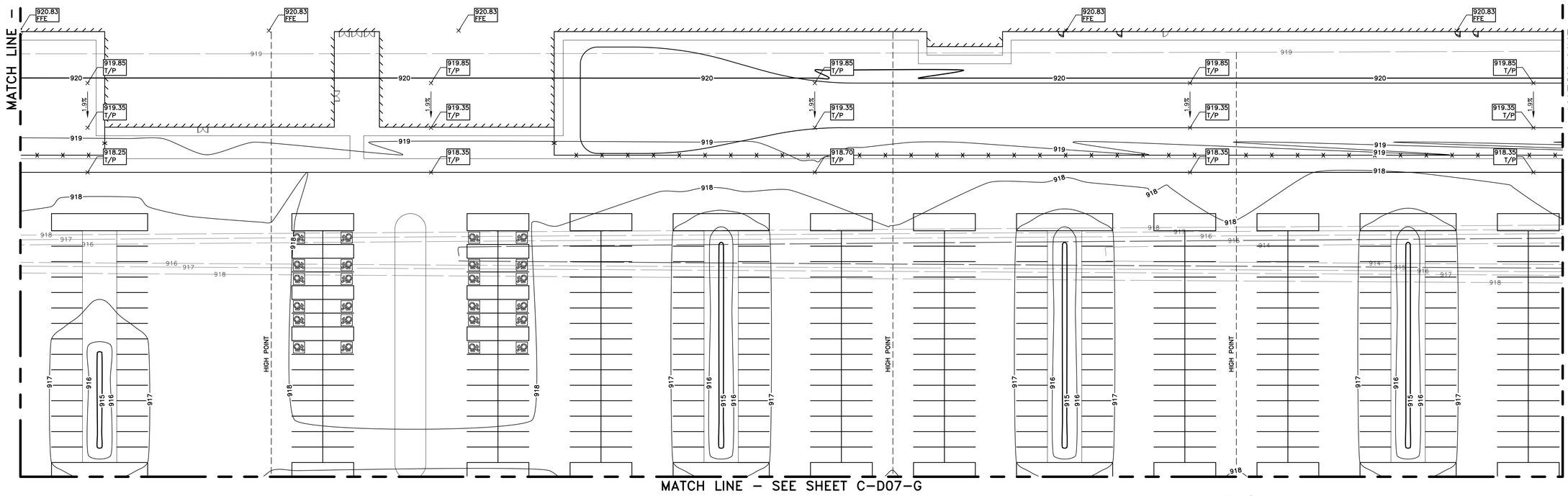
MATCH LINE – SEE SHEET C–F07–G

MATCH LINE – SEE SHEET C–E06–G

MATCH LINE – SEE SHEET C–E08–G

PRODUCTION BUILDING
FFE = 920.83

3478.0'



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NORTH

PARTIAL E07 GRADING PLAN
SCALE: 1"=30"

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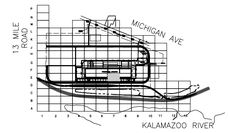

KEY PLAN
SCALE: NO SCALE

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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL E07
GRADING PLAN

SHEET NUMBER

C-E07-G

PLOT DATE: 9/22/2023 10:19:35 AM SAVE DATE: 9/22/2023 10:00:18 AM PIPER_ADAM C:\Users\piper\DCACDocs\Wade Trim\FRD\2014.05F Project Hilxuy\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid E\2400000-C-PLT-E07-G-A2E-WADE.dwg

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MATCH LINE – SEE SHEET C–E06–S

MATCH LINE – SEE SHEET C–E08–S

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NORTH

PARTIAL E07 SITE PLAN
SCALE: 1"=30"

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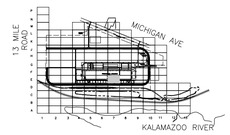

KEY PLAN
SCALE: NO SCALE

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USA

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BATTERY PARK
MICHIGAN

BATTERY PLANT

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A/E TEAM INFORMATION

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DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL E07
SITE PLAN

SHEET NUMBER

C-E07-S

PLOT DATE: 9/22/2023 10:20:30 AM SAVE DATE: 9/30/2023 1:40:36 PM PIPER_ADAM

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MATCH LINE – SEE SHEET C-E06-U

MATCH LINE – SEE SHEET C-E08-U

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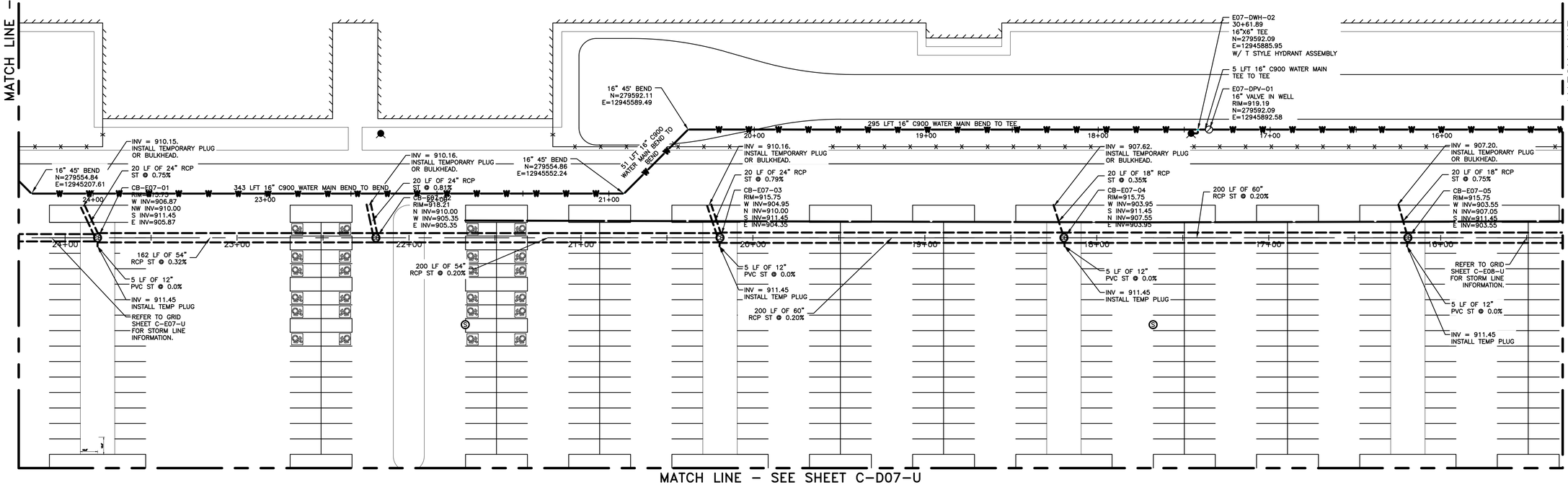

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SCALE: 1"=30"

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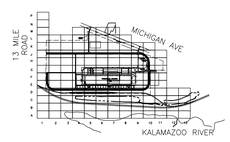

KEY PLAN
SCALE: NO SCALE

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A/E TEAM INFORMATION	
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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL E07
UTILITY PLAN

SHEET NUMBER

C-E07-U

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SAVE DATE: 9/21/2023 12:12:00 PM

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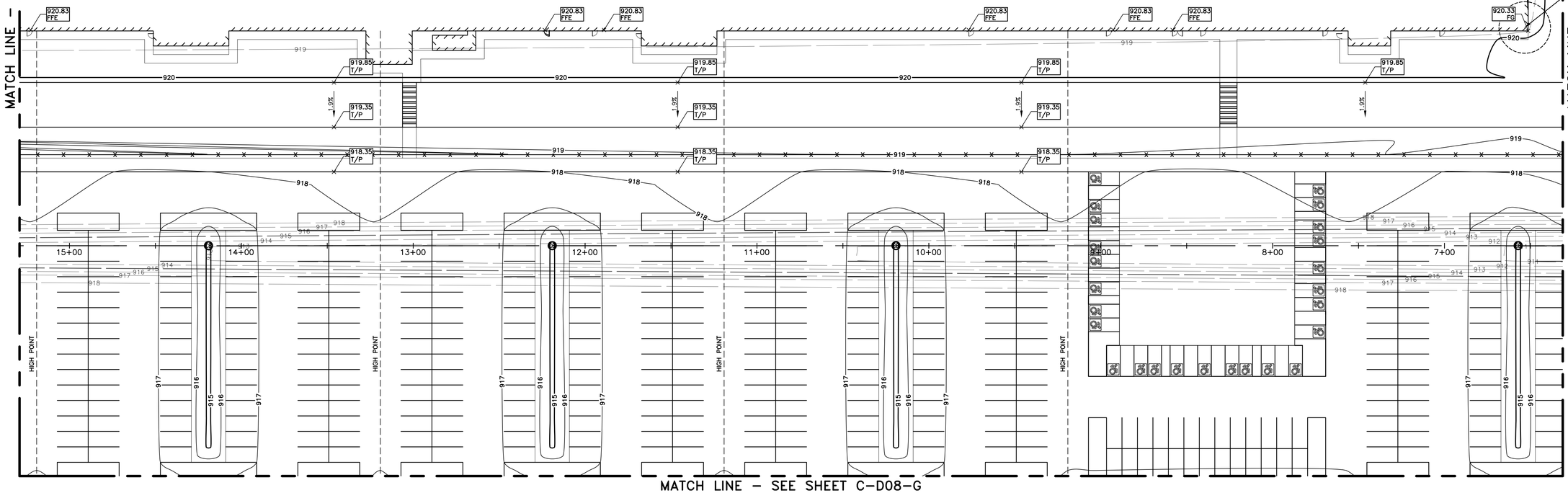
MATCH LINE – SEE SHEET C–F08–G

MATCH LINE – SEE SHEET C–E07–G

MATCH LINE – SEE SHEET C–E09–G

PRODUCTION BUILDING
FFE = 920.83



MATCH LINE – SEE SHEET C–D08–G

NORTH

PARTIAL E08 GRADING PLAN
SCALE: 1"=30"

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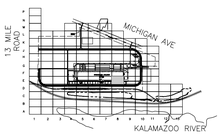

KEY PLAN
SCALE: NO SCALE

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL E08
GRADING PLAN

SHEET NUMBER

C-E08-G

PLOT DATE: 9/22/2023 10:22:30 AM SAVE DATE: 8/30/2023 2:26:28 PM PIPER, ADAM C:\Users\piperd\DOCACDocs\Wade Trim\FRD\2011-06F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid E\20080B-GP-E1SHEET-E08-G-A2-WADE.dwg

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MATCH LINE – SEE SHEET C-F08-S

MATCH LINE – SEE SHEET C-E07-S

MATCH LINE – SEE SHEET C-E09-S

MATCH LINE – SEE SHEET C-E09-G

PRODUCTION BUILDING
FFE = 920.83

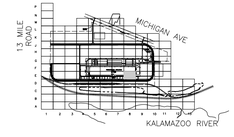
MATCH LINE – SEE SHEET C-D08-S

NORTH

PARTIAL E08 SITE PLAN
SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
REGISTERED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION



KEY PLAN
SCALE: NO SCALE

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USA

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BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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www.wadetrim.com

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL E08
SITE PLAN

SHEET NUMBER

C-E08-S

PLOT DATE: 9/22/2023 10:23:12 AM
SAVE DATE: 9/20/2023 2:31:18 PM
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MATCH LINE – SEE SHEET C-F08-U

MATCH LINE – SEE SHEET C-E07-U

MATCH LINE – SEE SHEET C-E09-U

PRODUCTION BUILDING
FFE = 920.83

E08-DWH-01
40+61.89
16"X6" TEE
N=279592.08
E=12946885.95
W/ T STYLE HYDRANT ASSEMBLY

E08-DPV-01
16" VALVE IN WELL
RIM=919.13
N=279592.09
E=12946895.94

E08-DWH-02
35+61.89
16"X6" TEE
N=279592.08
E=12946385.95
W/ T STYLE HYDRANT ASSEMBLY

477 LFT 16" C900 WATER MAIN TEE TO VALVE

497 LFT 16" C900 WATER MAIN TEE TO TEE

8 LFT 16" C900 WATER MAIN BEND TO TEE

INV = 906.74
INSTALL TEMPORARY PLUG OR BULKHEAD.

20 LF OF 18" RCP ST @ 0.44%

CB-E08-01
RIM=915.75
W INV=903.15
N INV=906.65
S INV=911.33
E INV=902.65

200 LF OF 60" RCP ST @ 0.20%

5 LF OF 12" PVC ST @ 0.0%

INV = 911.33
INSTALL TEMP PLUG

200 LF OF 66" RCP ST @ 0.20%

INV = 906.37.
INSTALL TEMPORARY PLUG OR BULKHEAD.

20 LF OF 18" RCP ST @ 0.61%

CB-E08-02
RIM=915.75
W INV=902.25
N INV=906.25
S INV=911.36
E INV=902.25

200 LF OF 66" RCP ST @ 0.20%

5 LF OF 12" PVC ST @ 0.0%

INV = 911.36
INSTALL TEMP PLUG

INV = 906.04.
INSTALL TEMPORARY PLUG OR BULKHEAD.

20 LF OF 18" RCP ST @ 0.94%

CB-E08-03
RIM=915.75
W INV=901.85
S INV=911.36
E INV=901.85

5 LF OF 12" PVC ST @ 0.0%

INV = 911.36
INSTALL TEMP PLUG

362 LF OF 66" RCP ST @ 0.20%

INV = 905.23.
INSTALL TEMPORARY PLUG OR BULKHEAD.

20 LF OF 24" RCP ST @ 0.50%

CB-E08-04
RIM=915.75
W INV=901.13
N INV=905.13
S INV=911.36
E INV=901.13

5 LF OF 12" PVC ST @ 0.0%

INV = 911.36
INSTALL TEMP PLUG

REFER TO GRID SHEET C-E09-U FOR STORM LINE INFORMATION.

15+00 14+00 13+00 12+00 11+00 10+00 9+00 8+00 7+00

MATCH LINE – SEE SHEET C-D08-U

NORTH

PARTIAL E08 UTILITY PLAN
SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
REGISTERED PROFESSIONAL ENGINEER

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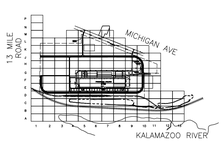

KEY PLAN
SCALE: NO SCALE

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USA

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MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

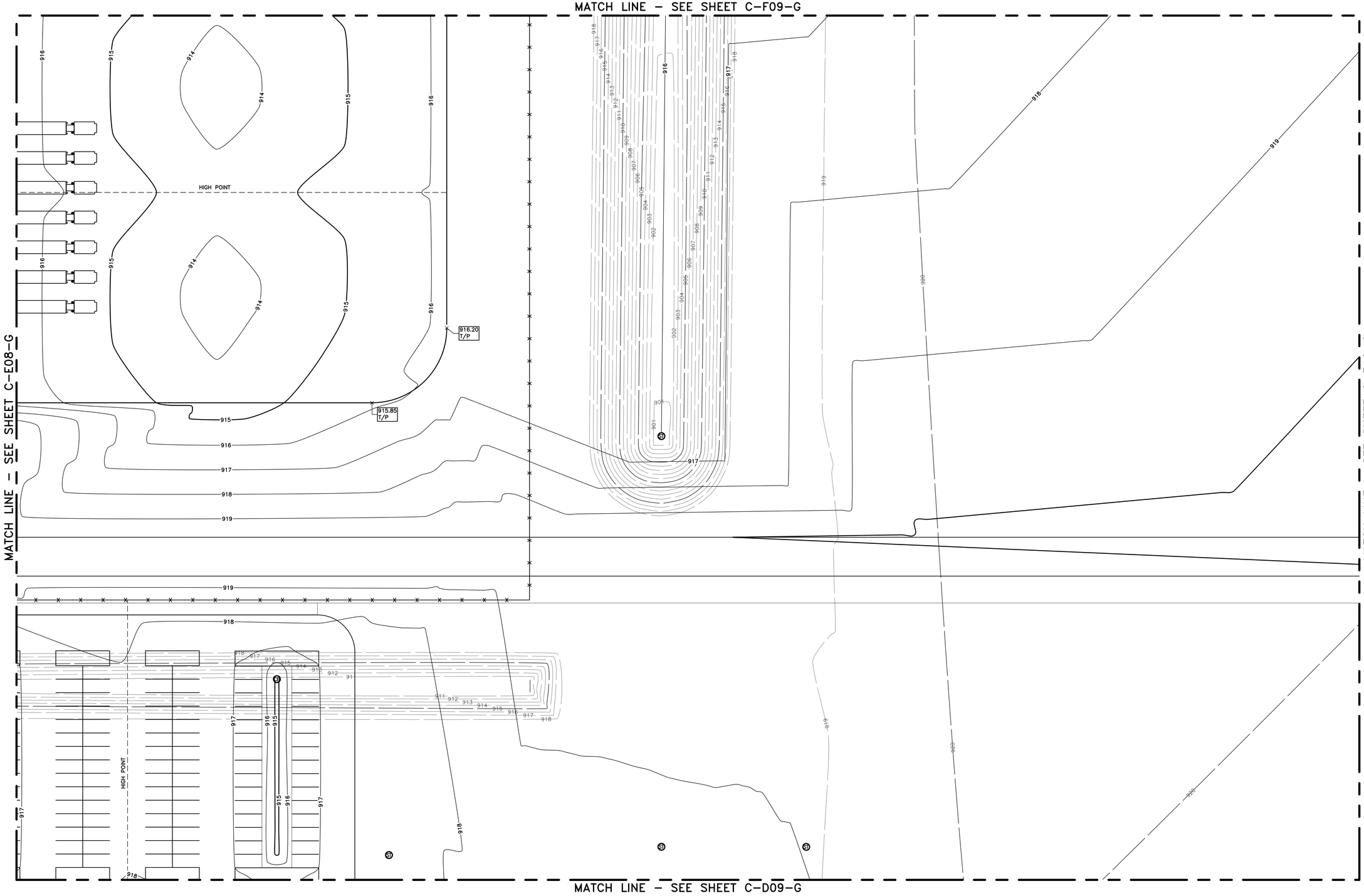
SHEET TITLE

PARTIAL E08
UTILITY PLAN

SHEET NUMBER

C-E08-U

PLOT DATE: 9/22/2023 10:24:14 AM SAVE DATE: 9/21/2023 2:14:40 PM PIPER, ADAM C:\Users\apiper\DCA\CCDocs\Wade Trim\FRD20011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid E\2000080-C-PLTS-E08-U-A22-WADE.dwg



NORTH

PARTIAL E09 GRADING PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH ENGINEER NO. 45667
LICENSED PROFESSIONAL ENGINEER

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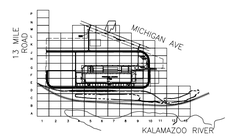

KEY PLAN

SCALE: NO SCALE

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MICHIGAN

BATTERY PLANT

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL E09
GRADING PLAN

SHEET NUMBER

C-E09-G

PLOT DATE: 9/22/2023 10:25:00 AM SAVE DATE: 9/29/2023 2:17:00 PM PIPER, ADAM C:\Users\apiper\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid E\2000000-C-PLTS-E09-G-A22-WADE.dwg

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MATCH LINE – SEE SHEET C–E08–S

MATCH LINE – SEE SHEET C–E10–S

26.0'

MATCH LINE – SEE SHEET C–D09–S

NORTH

PARTIAL E09 SITE PLAN

SCALE: 1"=30"

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ENGINEER
NO. 45687
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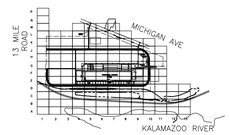

KEY PLAN

SCALE: NO SCALE

FORD LAND

17000 ROTUNDA DR, 1ST FLOOR SOUTH
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USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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08/31/23	• BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT

A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL E09
SITE PLAN

SHEET NUMBER

C-E09-S

PLOT DATE: 9/22/2023 10:26:08 AM SAVE DATE: 9/30/2023 9:56:49 AM PIPER, ADAM

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MATCH LINE – SEE SHEET C-E08-U

MATCH LINE – SEE SHEET C-E10-U

MATCH LINE – SEE SHEET C-D09-U

8+00

7+00

6+00

5+00

4+00

3+00

2+00

1+00

369 LF OF 18'X7' BOX CULVERT @ 0.20%

MH-E09-03
RIM=916.00
N INV=900.88
S INV=900.88

275 LF OF 18'X7' BOX CULVERT @ 0.20%

470 LFT 16" C900 WATER MAIN VALVE TO BEND

6+00 5+00 4+00 3+00

16" 45° BEND
N=279592.08
E=12947366.85

21 LFT 16" C900 WATER MAIN BEND TO BEND

16" 45° BEND
N=279576.52
E=12947382.41

200 LF OF 72" RCP ST @ 0.20%

CB-E09-01
RIM=915.75
S INV=911.33
W INV=900.73
SE INV=900.73

5 LF OF 12" PVC ST @ 0.0%

INV = 911.33
INSTALL TEMP PLUG

140 LF OF 84" RCP ST @ 0.20%

6+00 5+00

20 LF OF 18" RCP STM @ 0.73%

INV = 909.15
INSTALL TEMP PLUG

MH-E09-05
RIM=917.38
NW INV=900.45
NE INV=900.00
SE INV=900.45

REFER TO GRID SHEET C-D09-U FOR STORM LINE INFORMATION.

MH-E09-04
RIM=918.83
N INV=900.33
E INV=900.77
S INV=900.33

20 LF OF 36" RCP ST @ 0.95%.

INV = 900.96.
INSTALL TEMPORARY BULKHEAD.

97 LF OF 36" RCP ST @ 0.75%

CB-E09-07
RIM=919.05
W INV=901.50

REFER TO GRID SHEET C-D09-U FOR STORM LINE INFORMATION.

MATCH LINE – SEE SHEET C-D09-U

NORTH

PARTIAL E09 UTILITY PLAN

SCALE: 1"=30"

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STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
REGISTERED PROFESSIONAL ENGINEER

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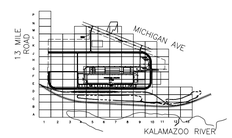

KEY PLAN

SCALE: NO SCALE

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BLUE OVAL
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MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

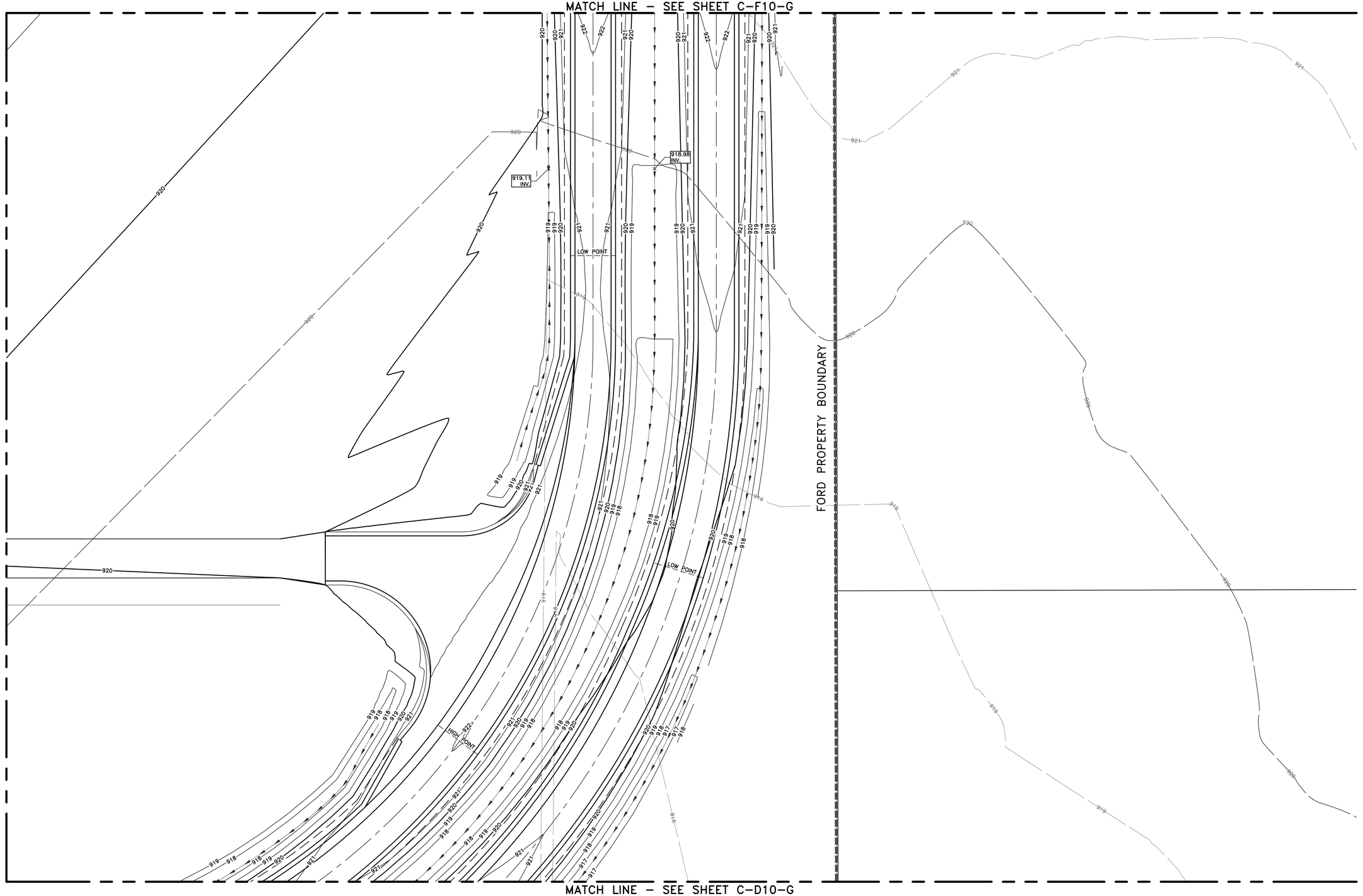
SHEET TITLE

PARTIAL E09
UTILITY PLAN

SHEET NUMBER

C-E09-U

PLOT DATE: 9/22/2023 10:27:15 AM SAVE DATE: 9/21/2023 12:33:42 PM PIPER, ADAM C:\Users\apiper\DCA\CCDocs\Wade Trim\FRD20011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid E2000000-C-PLTS-E09-U-A22-WADE.dwg



NORTH

PARTIAL E10 GRADING PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
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ENGINEER
NO. 45667
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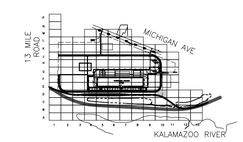

KEY PLAN

SCALE: NO SCALE

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BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

A/E OF RECORD LOGO

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A/E TEAM INFORMATION

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DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL E10
GRADING PLAN

SHEET NUMBER

C-E10-G

PLOT DATE: 9/22/2023 10:28:32 AM SAVE DATE: 9/20/2023 4:33:15 PM PIPER, ADAM C:\Users\sapiper\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid E\2000000-C-PLTS-E10-G-A22-WADE.dwg

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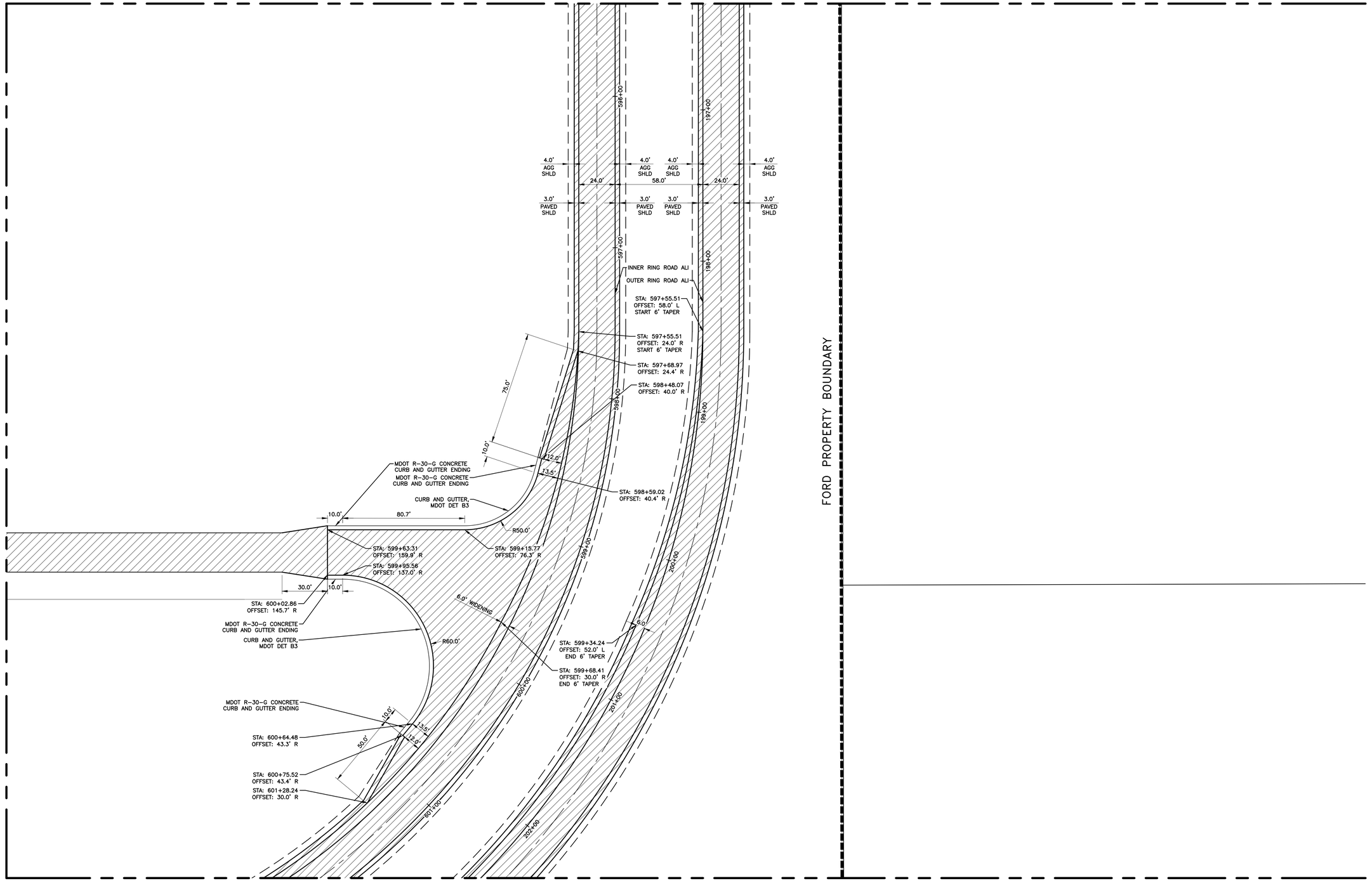


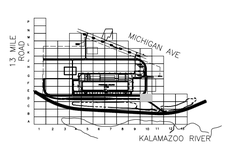
NORTH

SCALE: 1"=30"

PARTIAL E10 SITE PLAN

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION



KEY PLAN

SCALE: NO SCALE

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USA

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BATTERY PLANT

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FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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08/31/23	BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT

A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL E10
SITE PLAN

SHEET NUMBER

C-E10-S

C:\Users\apiper\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid E\2000000-C-PLTS-E10-S-A22-WADE.dwg

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9/22/2023 10:29:16 AM

PLOT DATE:

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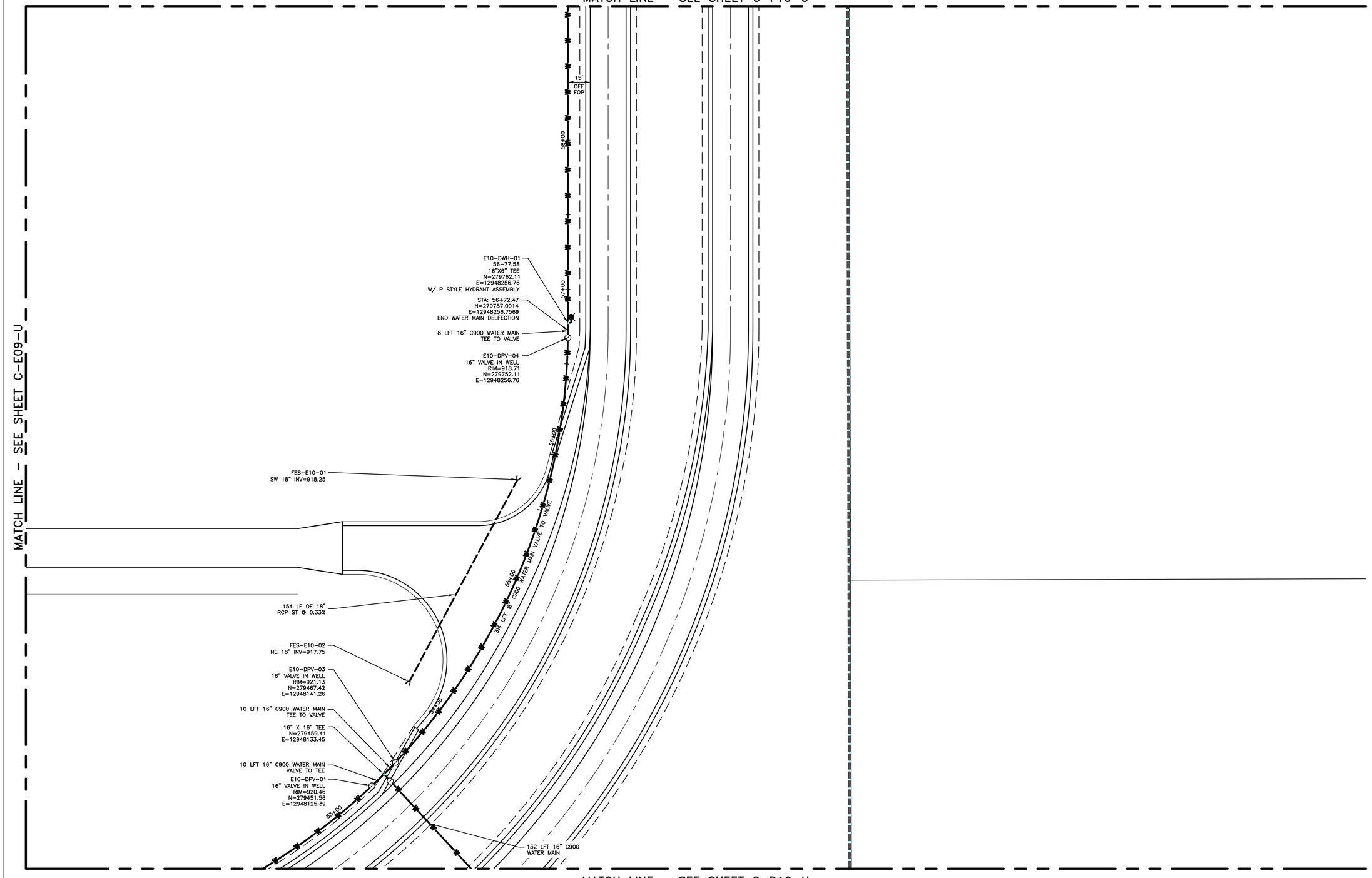


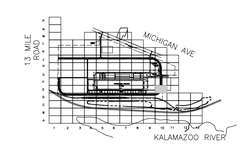
NORTH

PARTIAL E10 UTILITY PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION



KEY PLAN

SCALE: NO SCALE

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BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL E10
UTILITY PLAN

SHEET NUMBER

C-E10-U

PLOT DATE: 9/22/2023 10:30:08 AM SAVE DATE: 9/21/2023 12:51:09 PM PIPER, ADAM C:\Users\apiper\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid E\2000000-C-PLTS-E10-U-A22-WADE.dwg

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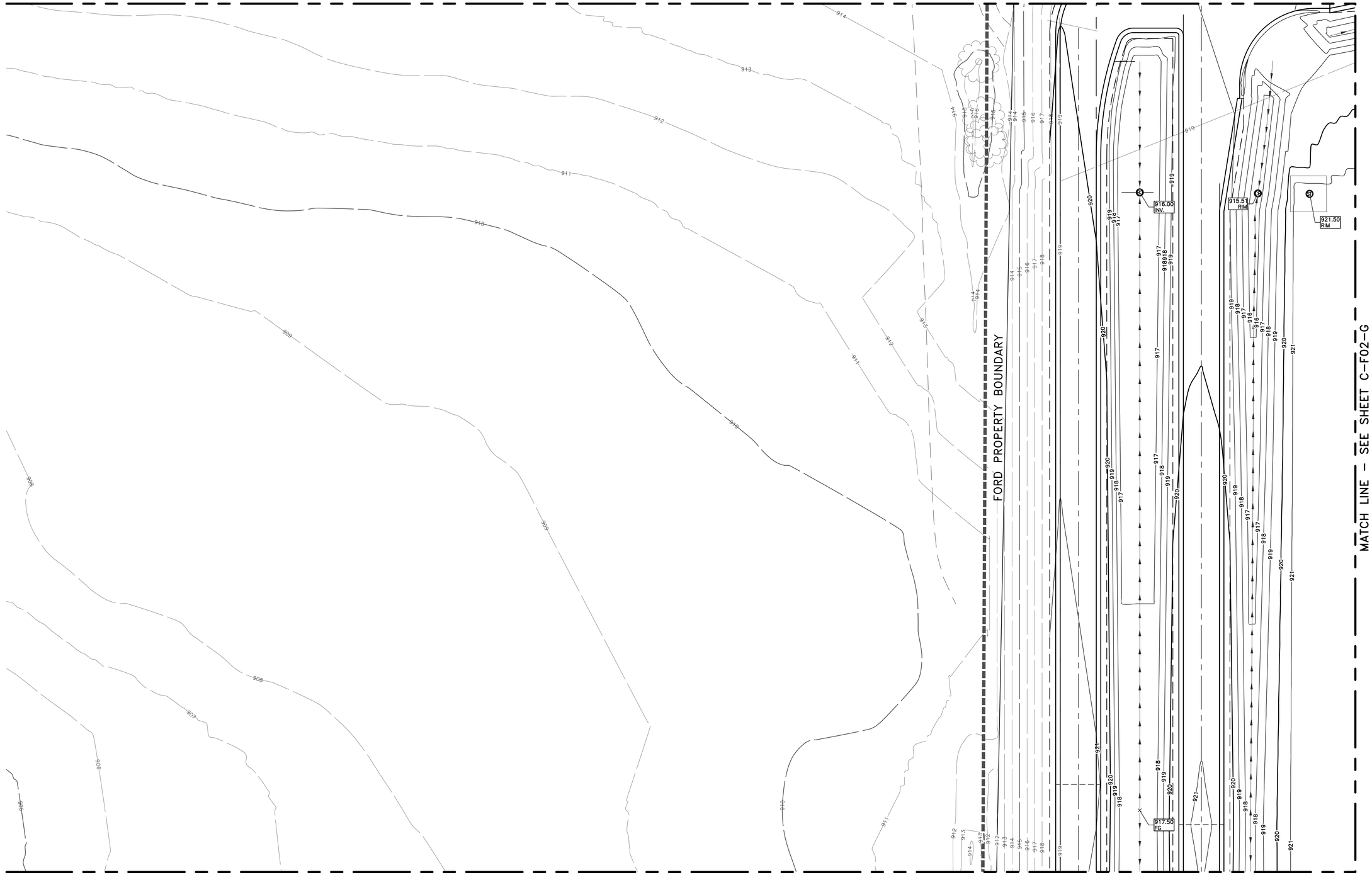

MATCH LINE – SEE SHEET C-F02-G

MATCH LINE – SEE SHEET C-E01-G

NORTH

PARTIAL F01 GRADING PLAN

SCALE: 1"=30"

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ENGINEER
NO. 45667
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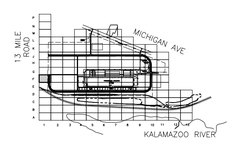

KEY PLAN

SCALE: NO SCALE

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USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL F01
GRADING PLAN

SHEET NUMBER

C-F01-G

PLOT DATE: 9/22/2023 9:04:39 AM
SAVE DATE: 9/20/2023 4:45:47 PM
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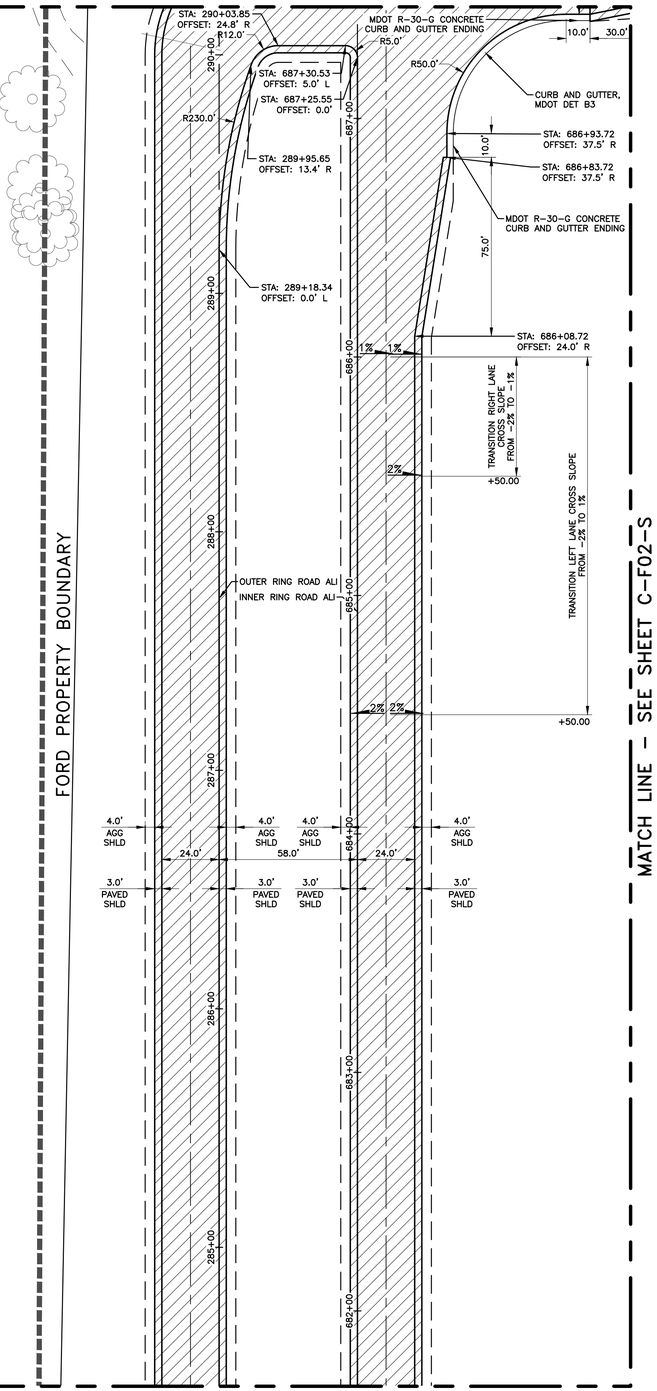

MATCH LINE – SEE SHEET C-F02-S

MATCH LINE – SEE SHEET C-E01-S

NORTH

PARTIAL F01 SITE PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

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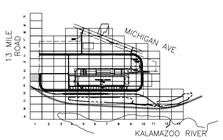

KEY PLAN

SCALE: NO SCALE

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MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL F01
SITE PLAN

SHEET NUMBER

C-F01-S

PLOT DATE: 9/22/2023 9:05:44 AM SAVE DATE: 9/7/2023 12:57:00 PM GLAZKO, PHOEBE C:\Users\glazkop\ADOCCDocs\Wade Trim\FRD\011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid P1200056-CPLTS-F01-S-C-E2-WADE.dwg

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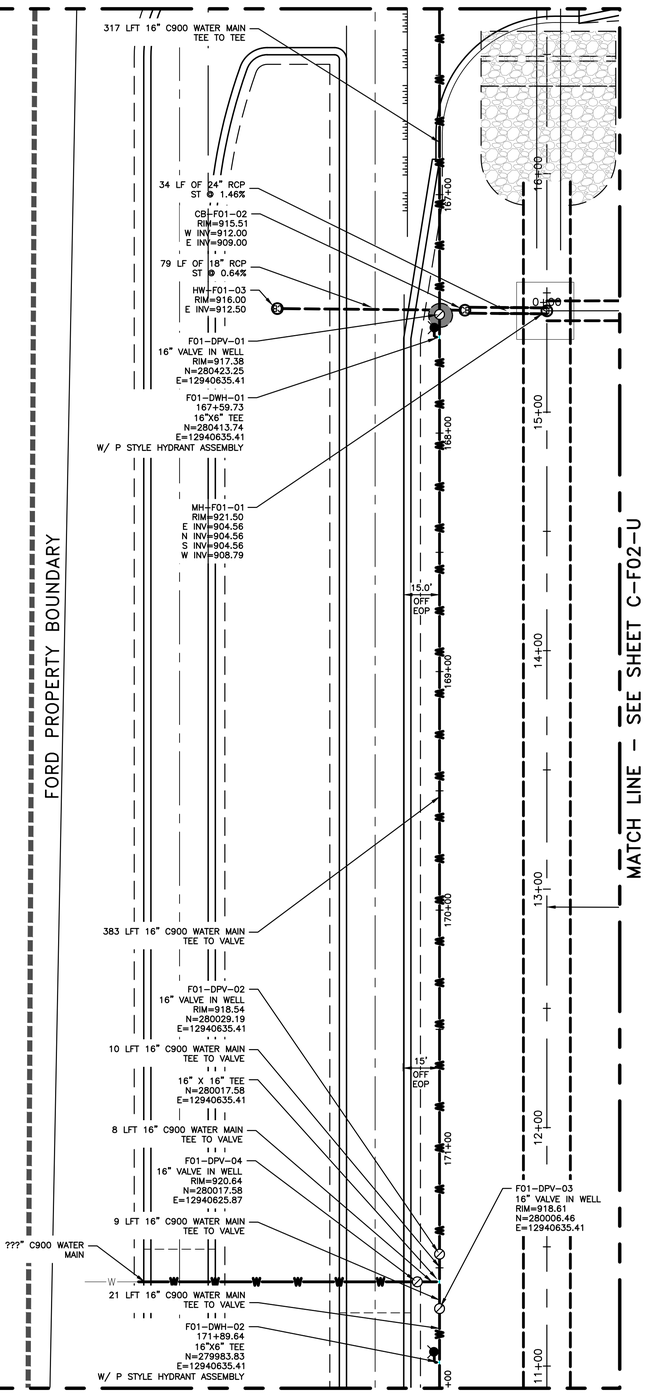

MATCH LINE – SEE SHEET C-E01-U

NORTH

PARTIAL F01 UTILITY PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
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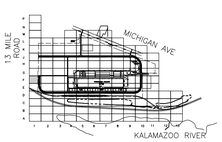

KEY PLAN

SCALE: NO SCALE

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MARSHALL CALHOUN CO. MI

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IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL F01
UTILITY PLAN

SHEET NUMBER

C-F01-U

PLOT DATE: 9/22/2023 9:05:58 AM SAVE DATE: 9/13/2023 9:15:54 PM GLAZKO, PHOEBE C:\Users\glazkop\ADOCDocs\Wade Trim\FID2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheetsfield P2000006-CPLTS-F01-U-A2-WADE.dwg

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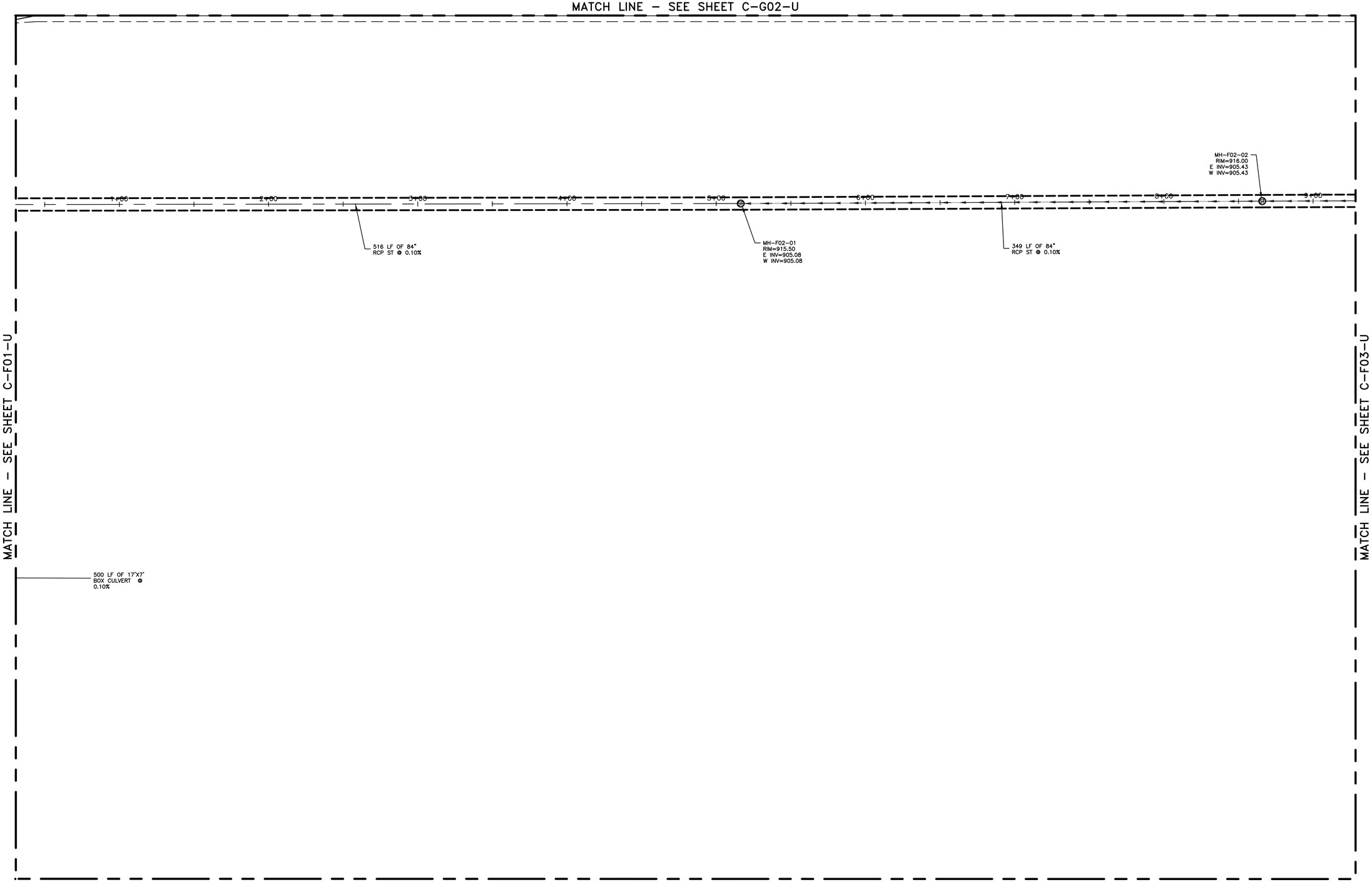

MATCH LINE – SEE SHEET C-F01-U

MATCH LINE – SEE SHEET C-F03-U

MATCH LINE – SEE SHEET C-E02-U

NORTH

PARTIAL F02 UTILITY PLAN

SCALE: 1"=30"

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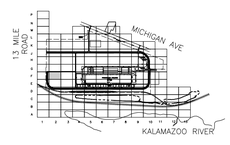

KEY PLAN

SCALE: NO SCALE

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MARSHALL CALHOUN CO. MI

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL F02
UTILITY PLAN

SHEET NUMBER

C-F02-U

PLOT DATE: 9/22/2023 9:08:04 AM
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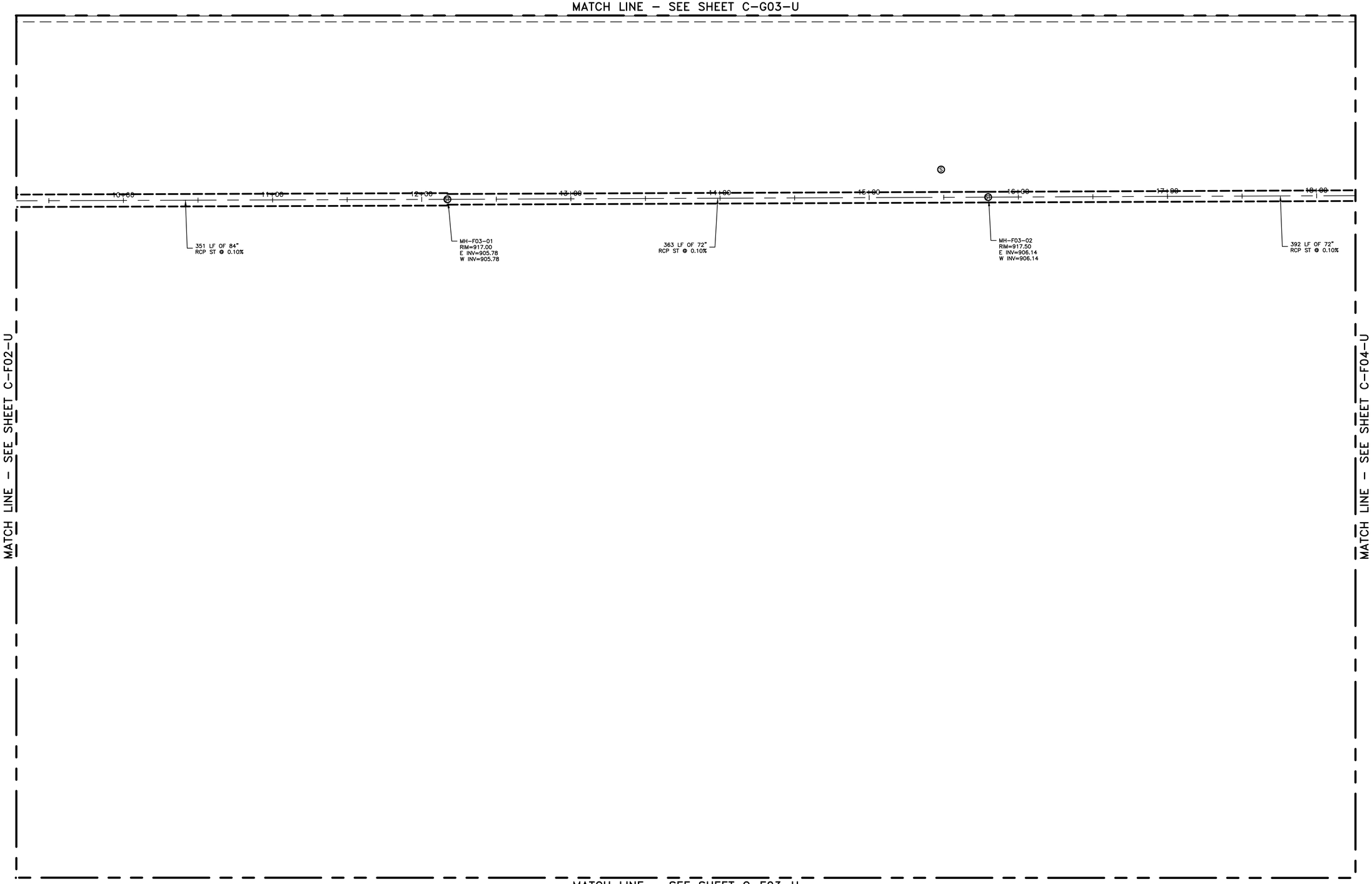

NORTH

PARTIAL F03 UTILITY PLAN

SCALE: 1"=30"

STATE OF MICHIGAN ERICH VINCENT SMITH ENGINEER NO. 45667 LICENSED PROFESSIONAL ENGINEER

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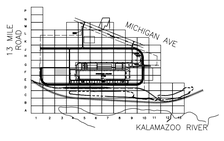

KEY PLAN

SCALE: NO SCALE

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FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL F03
UTILITY PLAN

SHEET NUMBER

C-F03-U

PLOT DATE: 9/22/2023 9:10:17 AM SAVE DATE: 9/21/2023 2:32:21 PM GLAZKO, PHOEBE C:\Users\pglazko\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid F\2000000-C-PLTS-F03-U-A22-WADE.dwg

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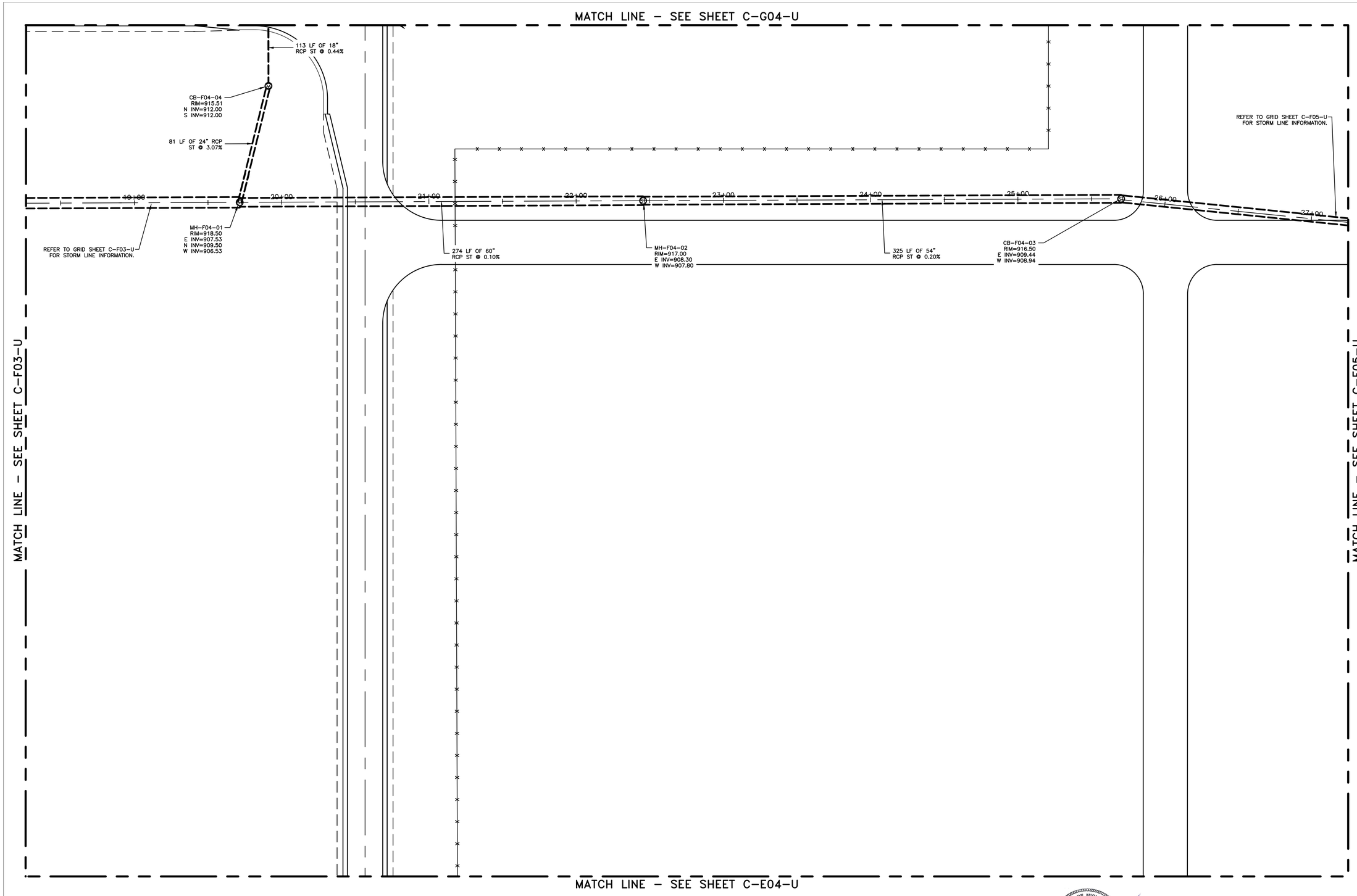


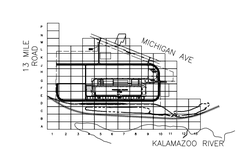
NORTH

PARTIAL F04 UTILITY PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION



KEY PLAN

SCALE: NO SCALE

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USA

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BATTERY PLANT

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FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL F04
UTILITY PLAN

SHEET NUMBER

C-F04-U

PLOT DATE: 9/22/2023 9:12:28 AM SAVE DATE: 11/2023 10:32:32 AM GLAZKO, PHOEBE C:\Users\gglazko\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid F\2000000-C-PLTS-F04-U-A22-WADE.dwg

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MATCH LINE – SEE SHEET C-G05-U

250 LF OF 30" RCP ST @ 0.20%

CB-F05-25
RIM=917.31
N INV=910.86
S INV=910.86

137 LF OF 30" RCP ST @ 0.20%

240 LF OF 48" RCP ST @ 0.20%

MH-F04-04
RIM=919.48
E INV=909.93
S INV=912.75
W INV=909.93

MH-F05-01
RIM=918.90
E INV=910.22
N INV=910.59
W INV=910.22

20 LF OF 30" RCP ST @ 0.51%

INV = 912.85,
INSTALL TEMPORARY PLUG OR BULKHEAD.

142 LF OF 48" RCP ST @ 0.20%

28+00

29+00

30+00

275 LF OF 42" RCP ST @ 0.19%

31+00

32+00

32+27

MH-F05-02
RIM=917.52
SE INV=912.25
W INV=910.75

20 LF OF 18" RCP ST @ 1.51%.

INV = 910.30,
INSTALL TEMPORARY PLUG OR BULKHEAD.

20 LF OF 24" RCP ST @ 0.41%.

INV = 910.83,
INSTALL TEMPORARY PLUG OR BULKHEAD.

CB-F05-26
RIM=917.24
S INV=911.45

32+88

35 LF OF 24" RCP ST @ 1.71%

REFER TO GRID SHEET C-F06-U FOR STORM LINE INFORMATION.

32+00

MH-F05-03
RIM=917.52
N INV=910.85
S INV=911.05
E INV=910.85

20 LF OF 24" RCP ST @ 1.97%

INV = 911.44,
INSTALL TEMPORARY PLUG OR BULKHEAD.

MATCH LINE – SEE SHEET C-F04-U

MATCH LINE – SEE SHEET C-F06-U

PRODUCTION BUILDING
FFE = 920.83

MATCH LINE – SEE SHEET C-E05-U

NORTH

PARTIAL F05 UTILITY PLAN

SCALE: 1"=30"

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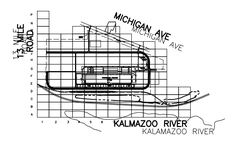

KEY PLAN
SCALE: NO SCALE

FORD LAND

17000 ROTUNDA DR, 1ST FLOOR SOUTH
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USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL F05
UTILITY PLAN

SHEET NUMBER

C-F05-U

PLOT DATE: 9/22/2023 9:14:54 AM SAVE DATE: 9/21/2023 2:12:25 PM GLAZKO, PHOEBE C:\Users\glazkop\AppData\Local\Autodesk\AutoCAD Electrical 2021\R23.1\enu\Support\Acade.dwt Sheet Set: F2000000-CPLT-SHT-SUA2-WABE.dwg

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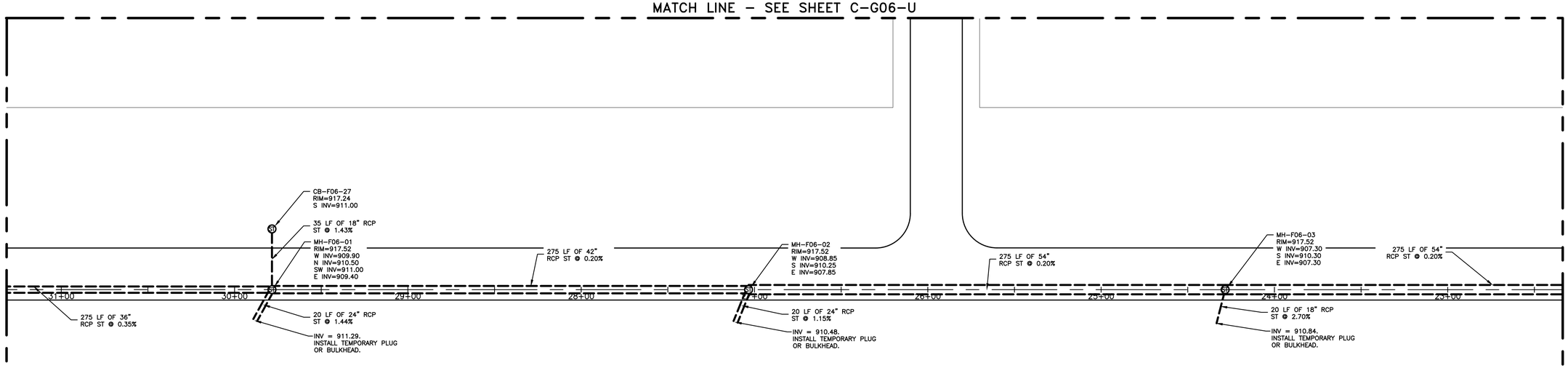
MATCH LINE – SEE SHEET C–G06–U



MATCH LINE – SEE SHEET C–F05–U

MATCH LINE – SEE SHEET C–F07–U

PRODUCTION BUILDING
FFE = 920.83

MATCH LINE – SEE SHEET C–E06–U

NORTH

PARTIAL F06 UTILITY PLAN
SCALE: 1"=30"

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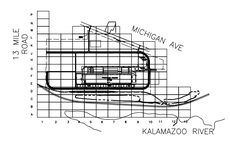

KEY PLAN
SCALE: NO SCALE

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CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL F06
UTILITY PLAN

SHEET NUMBER

C-F06-U

PLOT DATE: 9/22/2023 8:16:37 AM SAVE DATE: 9/21/2023 2:17:05 PM GLAZKO, PHOEBE C:\Users\glazkop\Documents\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid F1200000-CFCT-F06-U-A2-WADE.dwg

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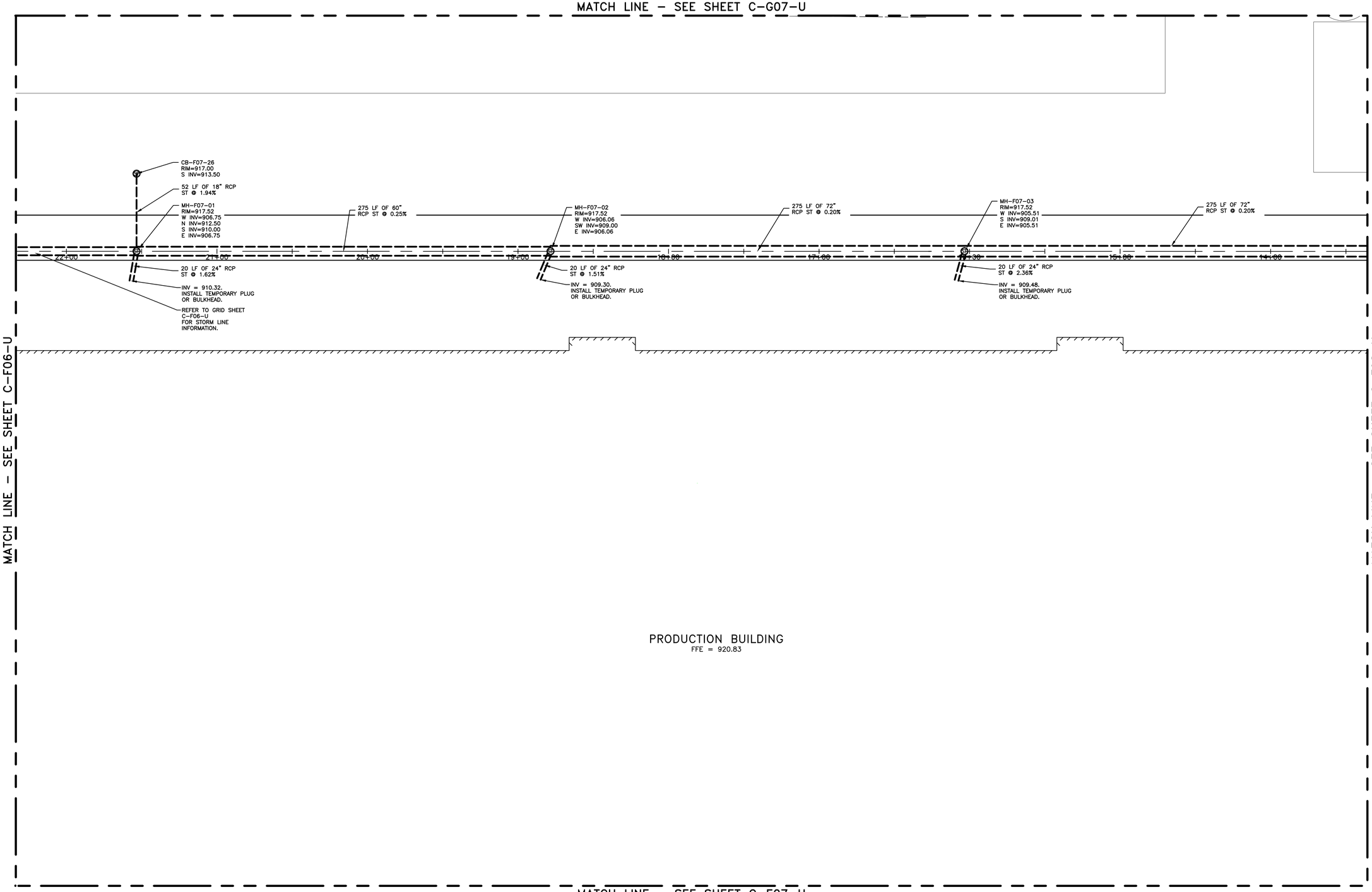
MATCH LINE – SEE SHEET C-G07-U



MATCH LINE – SEE SHEET C-F06-U

MATCH LINE – SEE SHEET C-F08-U

PRODUCTION BUILDING
FFE = 920.83

MATCH LINE – SEE SHEET C-E07-U

NORTH

PARTIAL F07 UTILITY PLAN
SCALE: 1"=30"

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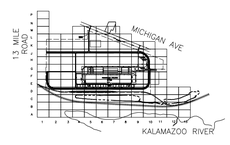

KEY PLAN
SCALE: NO SCALE

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APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL F07
UTILITY PLAN

SHEET NUMBER

C-F07-U

PLOT DATE: 9/22/2023 9:18:55 AM
SAVE DATE: 9/21/2023 2:56:15 PM
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MATCH LINE – SEE SHEET C-G08-U

MH-F08-01
RIM=917.52
W INV=904.96
S INV=908.96
E INV=904.96

275 LF OF 72" RCP ST @ 0.20%

MH-F08-02
RIM=917.52
W INV=904.41
S INV=909.41
E INV=904.41

275 LF OF 84" RCP ST @ 0.20%

MH-F08-03
RIM=917.52
W INV=903.85
E INV=903.85

MH-F08-04
RIM=917.45
W INV=903.29
E INV=903.29

278 LF OF 84" RCP ST @ 0.20%

13+00 12+00 11+00 10+00 9+00 8+00 7+00 6+00 5+00

20 LF OF 24" RCP ST @ 1.70%

20 LF OF 24" RCP ST @ 1.79%

MATCH LINE – SEE SHEET C-F07-U

MATCH LINE – SEE SHEET C-F09-U

PRODUCTION BUILDING
FFE = 920.83

MATCH LINE – SEE SHEET C-E08-U

NORTH

PARTIAL F08 UTILITY PLAN

SCALE: 1"=30"

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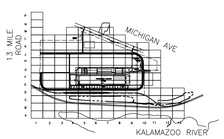

KEY PLAN
SCALE: NO SCALE

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DESIGNED BY:	S. DODSON
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APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL F08
UTILITY PLAN

SHEET NUMBER

C-F08-U

PLOT DATE: 9/22/2023 9:21:18 AM SAVE DATE: 9/21/2023 2:58:11 PM GLAZKO, PHOEBE C:\Users\pglazko\DCA\CCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid P-2000000-C-PLTS-108-U-A22-MADE.dwg

MATCH LINE – SEE SHEET C-G09-G

MATCH LINE – SEE SHEET C-F08-G

MATCH LINE – SEE SHEET C-E09-G

HIGH POINT

HIGH POINT

HIGH POINT

915.17
RIM

916.00
RIM

916.22
RIM

916.67
RIM

917.28
RIM

916.00
RIM

NORTH

PARTIAL F09 GRADING PLAN

SCALE: 1"=30"

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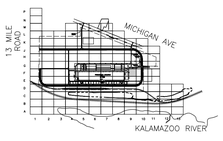

KEY PLAN
SCALE: NO SCALE

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USA

BLUE OVAL
BATTERY PARK
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BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL F09
GRADING PLAN

SHEET NUMBER

C-F09-G

PLOT DATE: 9/22/2023 9:23:05 AM SAVE DATE: 9/18/2023 12:28:34 PM GLAZKO, PHOEBE C:\Users\glazkop\OneDrive - Ford Motor Company\Documents\Desktop\Blue Oval\Civil 3D\Phase 02\General Grid Files\Plot Sheets\GNF P2000000-CPLTS-F09-G-C2V-WABE.dwg

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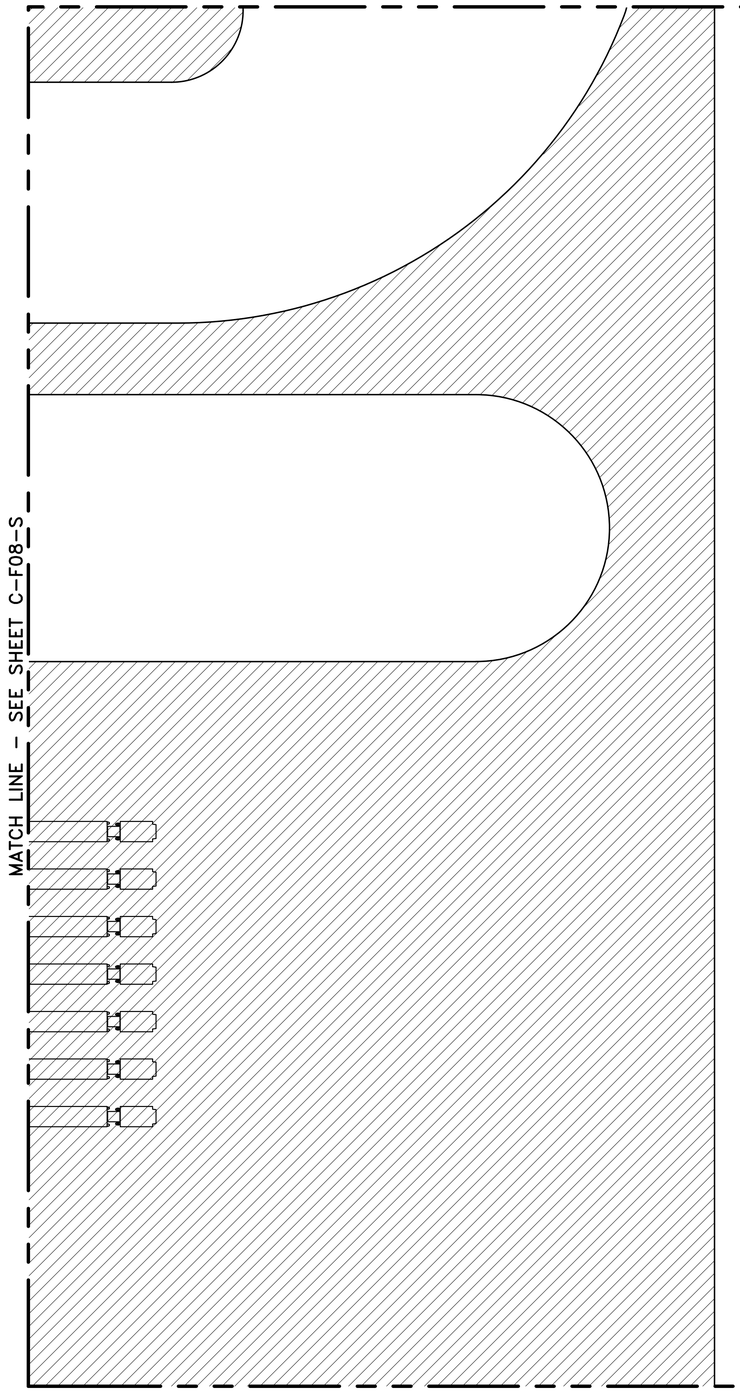
MATCH LINE – SEE SHEET C–F08–S



MATCH LINE – SEE SHEET C–E09–S

NORTH

PARTIAL F09 SITE PLAN

SCALE: 1"=30"

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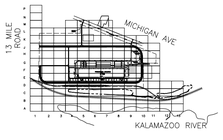

KEY PLAN

SCALE: NO SCALE

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DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL F09
SITE PLAN

SHEET NUMBER

C-F09-S

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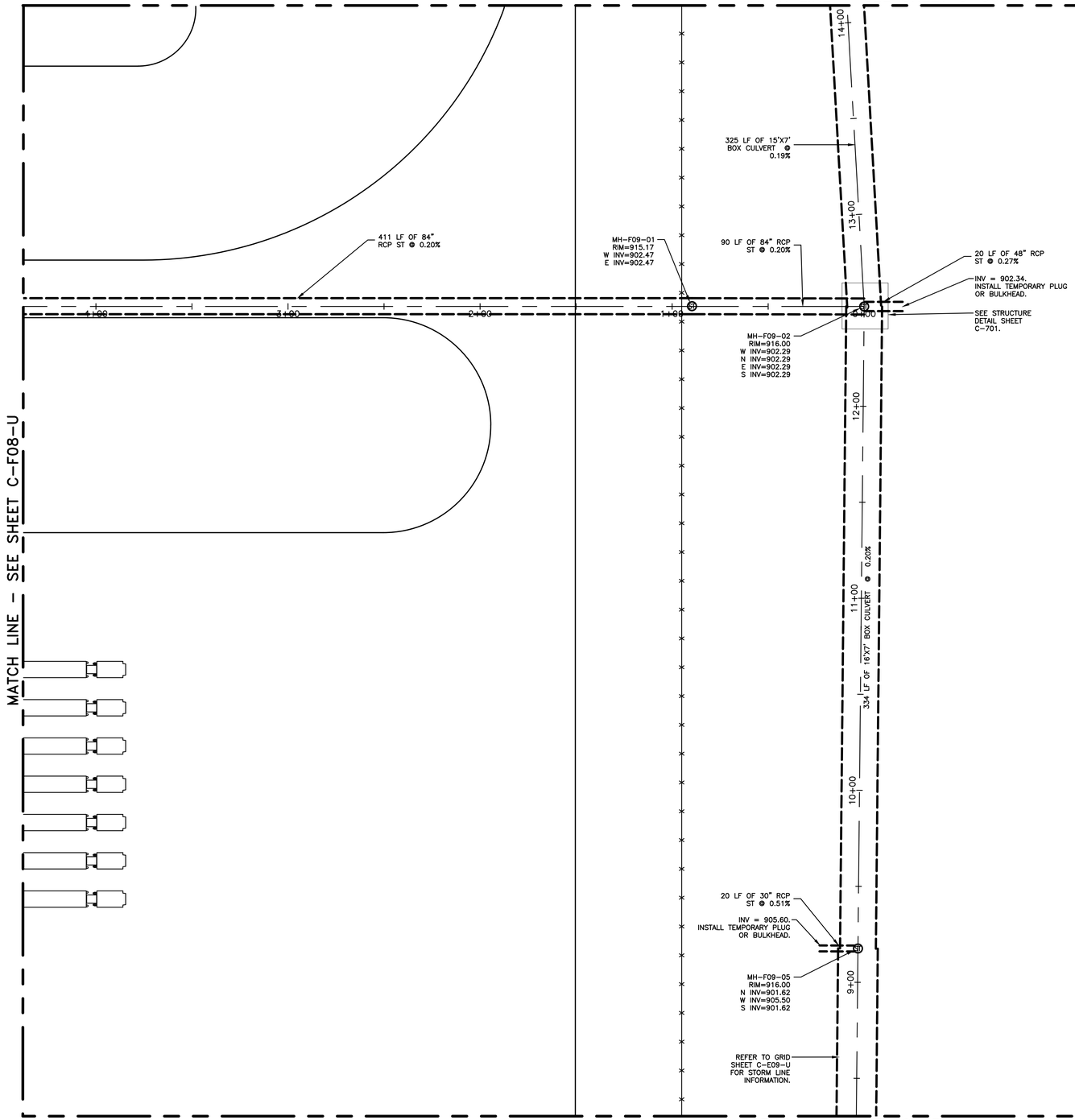
PLOT DATE: 9/22/2023 9:24:45 AM SAVE DATE: 9/20/2023 3:12:58 PM GLAZKO, PHOEBE

MATCH LINE – SEE SHEET C-G09-U

MATCH LINE – SEE SHEET C-F08-U



MATCH LINE – SEE SHEET C-E09-U

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PARTIAL F09 UTILITY PLAN

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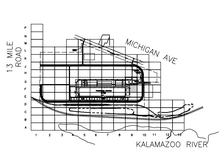

KEY PLAN

SCALE: NO SCALE

FORDLAND

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USA

BLUE OVAL
BATTERY PARK
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CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL F09
UTILITY PLAN

SHEET NUMBER

C-F09-U

PLOT DATE: 9/22/2023 9:26:39 AM SAVE DATE: 9/21/2023 3:03:31 PM GLAZKO, PHOEBE C:\Users\pglazko\DOCACCDocs\Wade Trim\F8D2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid P12000000-C-PLTS-F09-U-A22-WADE.dwg

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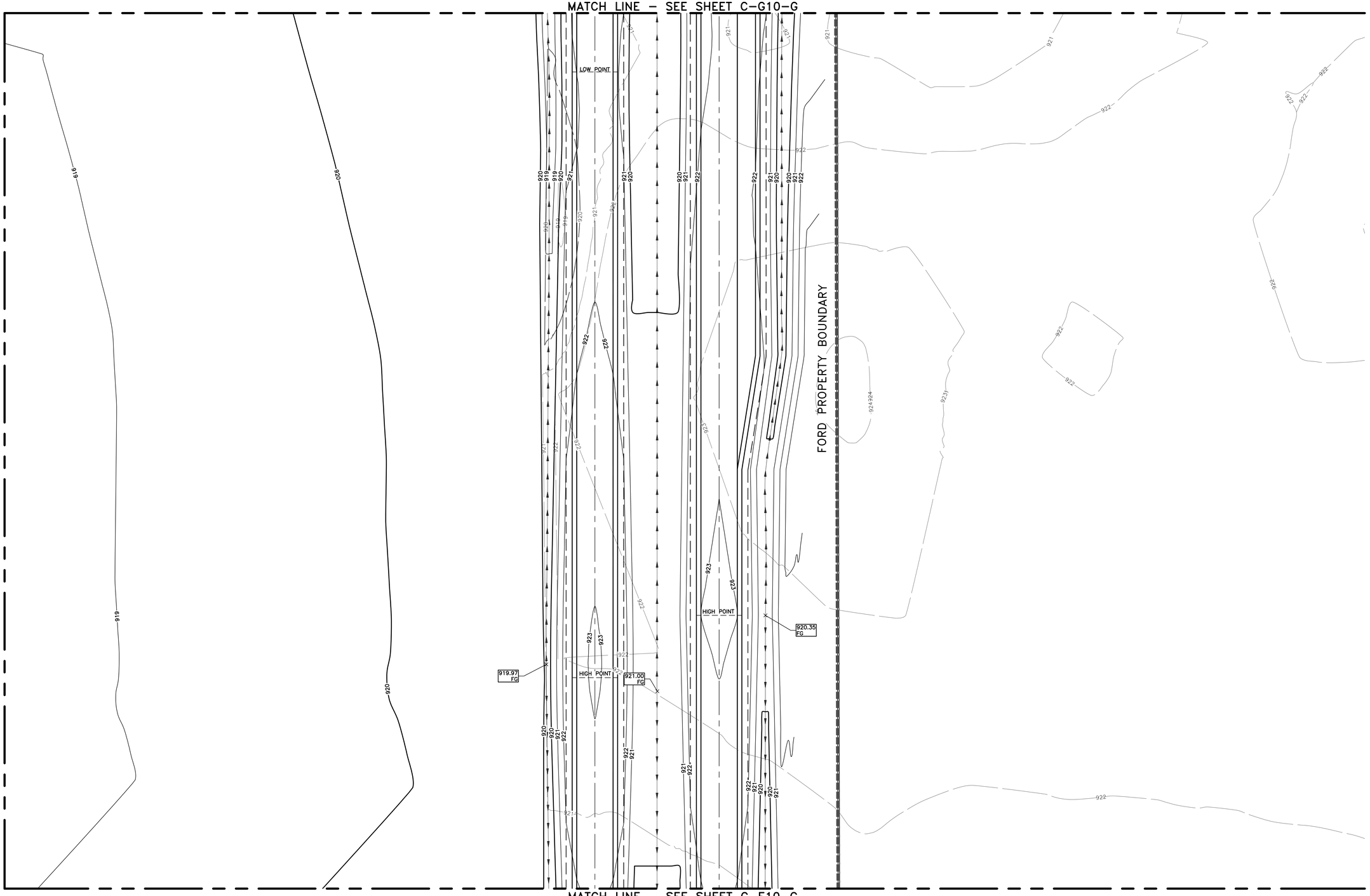

NORTH

PARTIAL F10 GRADING PLAN

SCALE: 1"=30"

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NO. 45667
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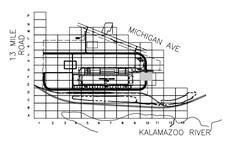

KEY PLAN

SCALE: NO SCALE

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BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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09/22/23	BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT
08/31/23	BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT

A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL F10
GRADING PLAN

SHEET NUMBER

C-F10-G

PLOT DATE: 9/22/2023 9:28:45 AM SAVE DATE: 8/18/2023 12:52:35 PM GLAZKO, PHOEBE C:\Users\pglazko\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid F\2000000-C-PLTS-F10-G-A02-WADE.dwg

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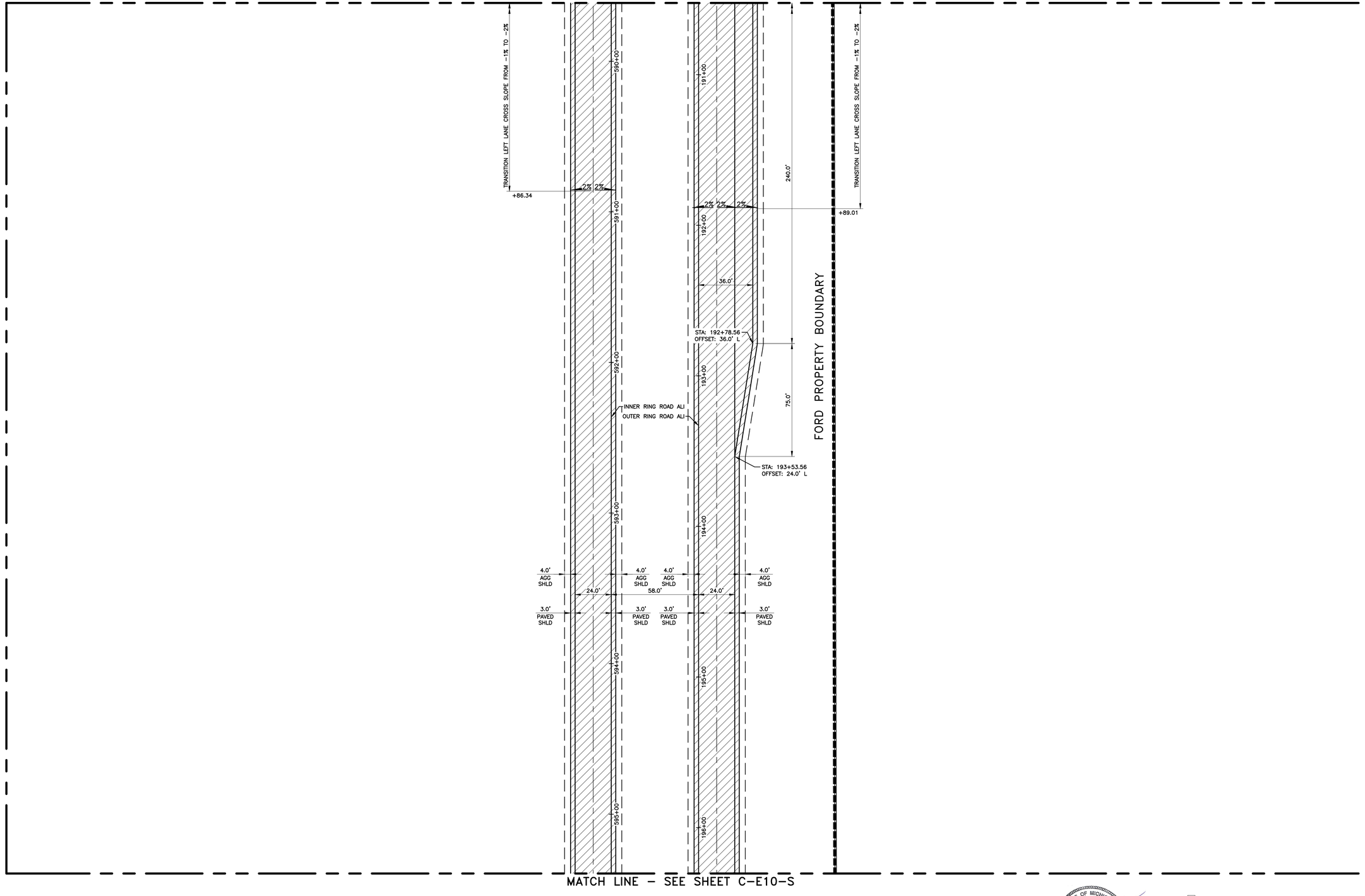


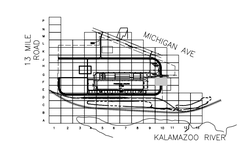
NORTH

PARTIAL F10 SITE PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION



KEY PLAN

SCALE: NO SCALE

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BATTERY PLANT

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FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL F10
SITE PLAN

SHEET NUMBER

C-F10-S

PLOT DATE: 9/22/2023 9:30:02 AM SAVE DATE: 8/18/2023 1:03:29 PM GLAZKO, PHOEBE C:\Users\pglazko\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid F\2000000-C-PLTS-F10-S-A22-WADE.dwg

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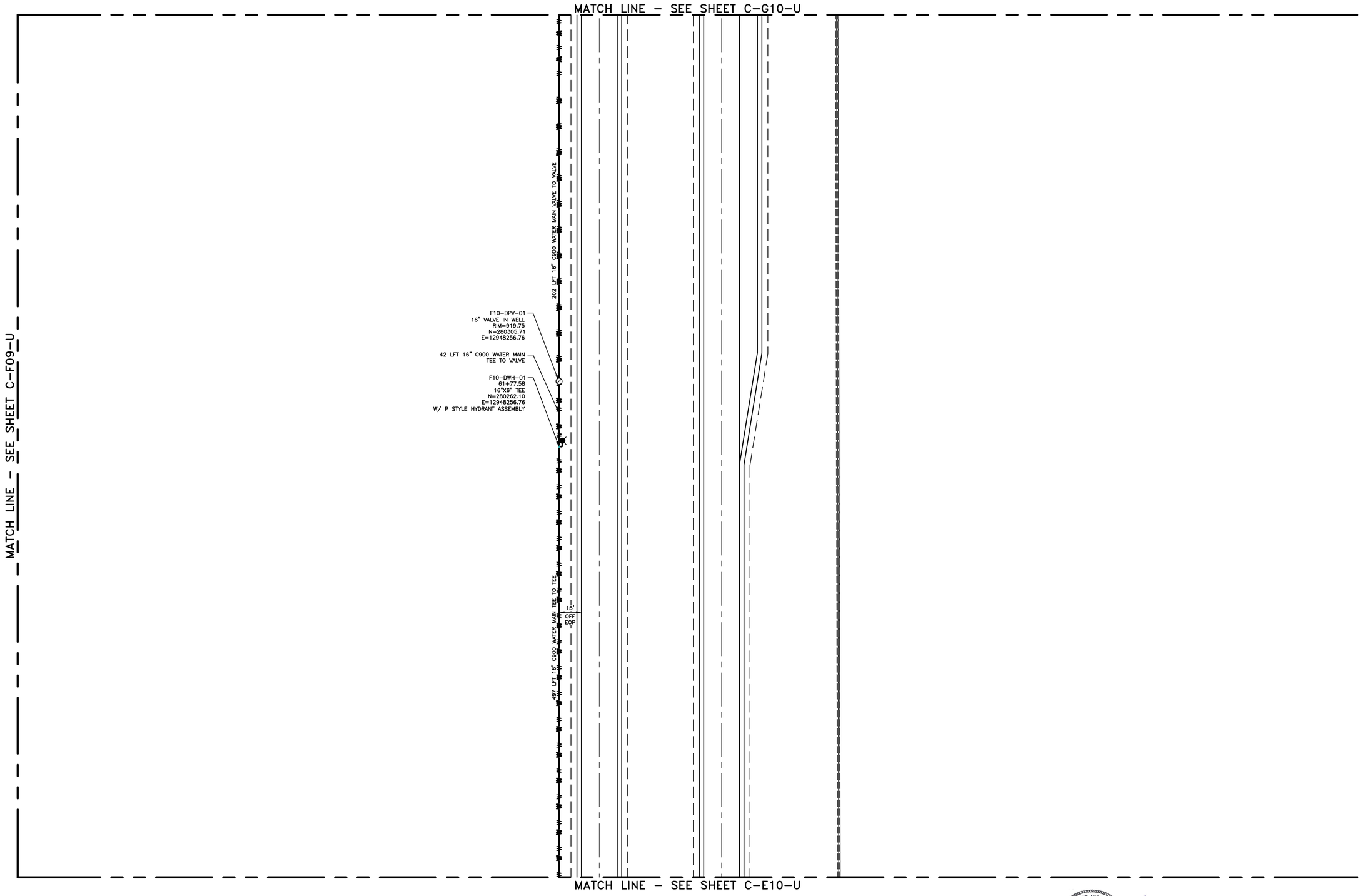
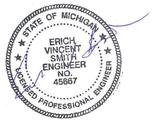


NORTH

PARTIAL F10 UTILITY PLAN

SCALE: 1"=30"



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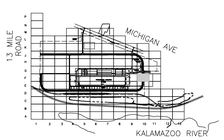

KEY PLAN

SCALE: NO SCALE

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MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

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A/E TEAM INFORMATION

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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL F10
UTILITY PLAN

SHEET NUMBER

C-F10-U

PLOT DATE: 9/22/2023 9:31:36 AM SAVE DATE: 9/21/2023 2:32:48 PM GLAZKO, PHOEBE C:\Users\pglazko\DCACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid F\2000000-C-PLTS-F10-U-A22-WADE.dwg

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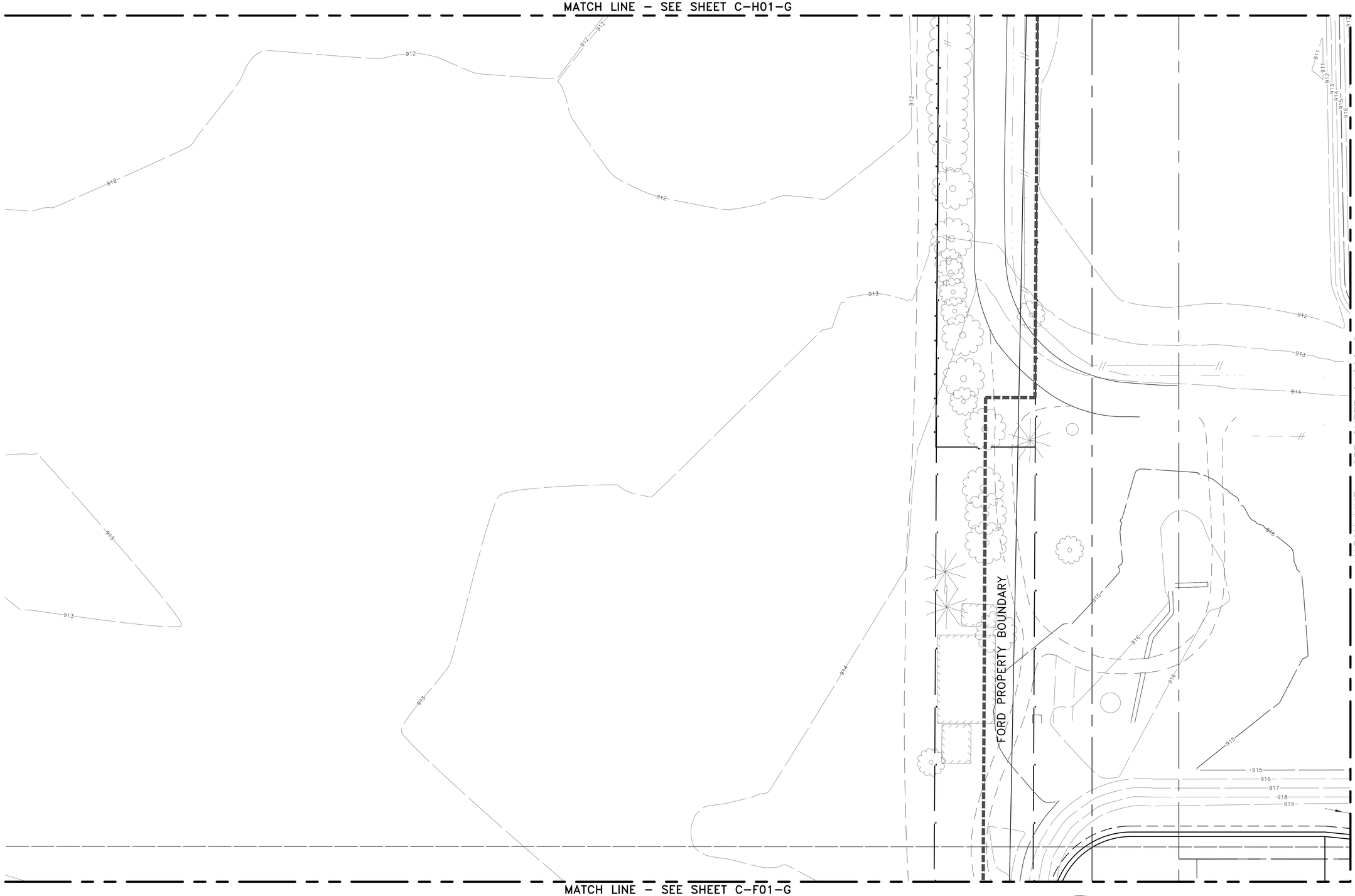

NORTH

PARTIAL G01 GRADING PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

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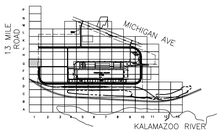

KEY PLAN

SCALE: NO SCALE

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MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL G01
GRADING PLAN

SHEET NUMBER

C-G01-G

PLOT DATE: 9/22/2023 9:36:42 AM SAVE DATE: 9/18/2023 1:25:22 PM GLAZKO, PHOEBE C:\Users\pglazko\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid G\2000000-C-PLTS-G01-G-A22-WADE.dwg

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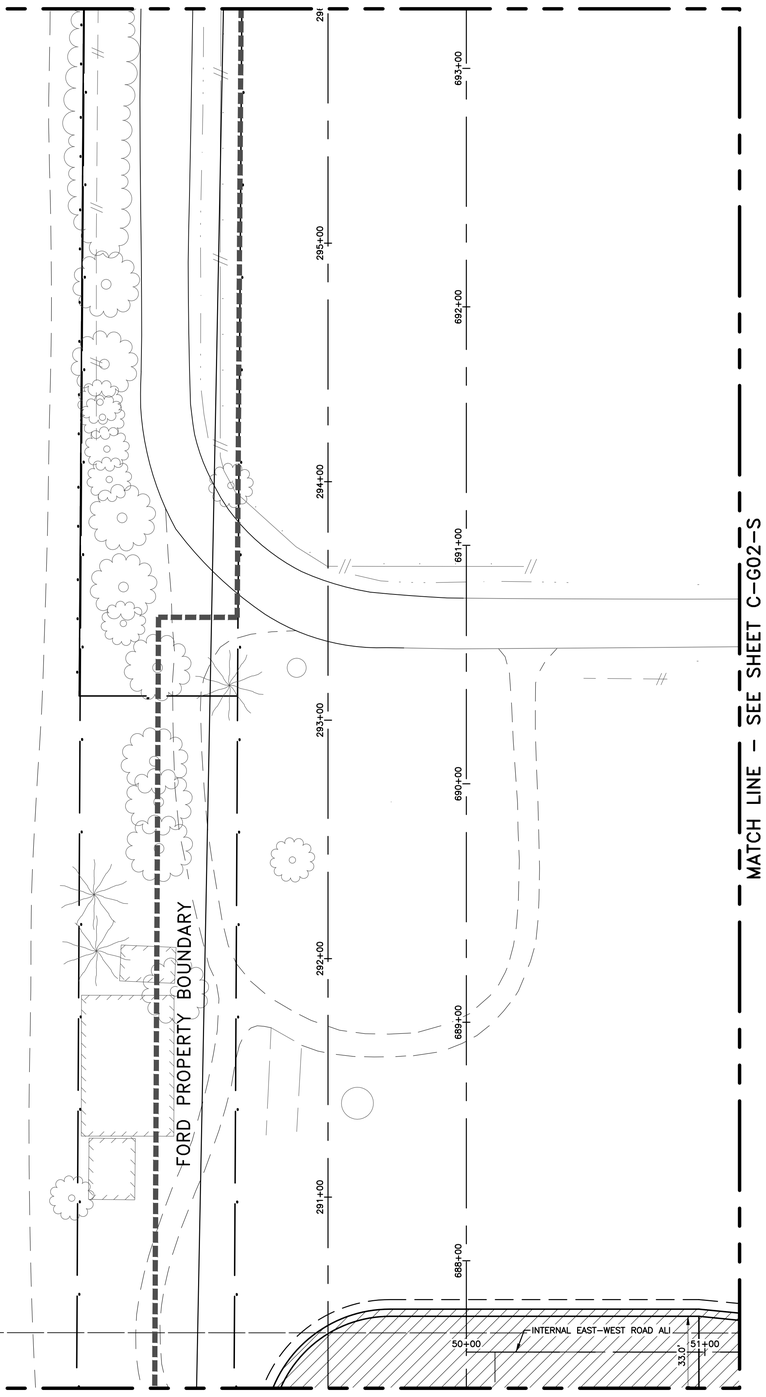

MATCH LINE – SEE SHEET C–G02–S

MATCH LINE – SEE SHEET C–F01–S

NORTH

PARTIAL G01 SITE PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

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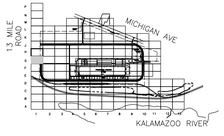

KEY PLAN

SCALE: NO SCALE

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MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL G01
SITE PLAN

SHEET NUMBER

C-G01-S

PLOT DATE: 9/22/2023 9:37:49 AM
SAVE DATE: 9/12/2023 12:44:03 PM
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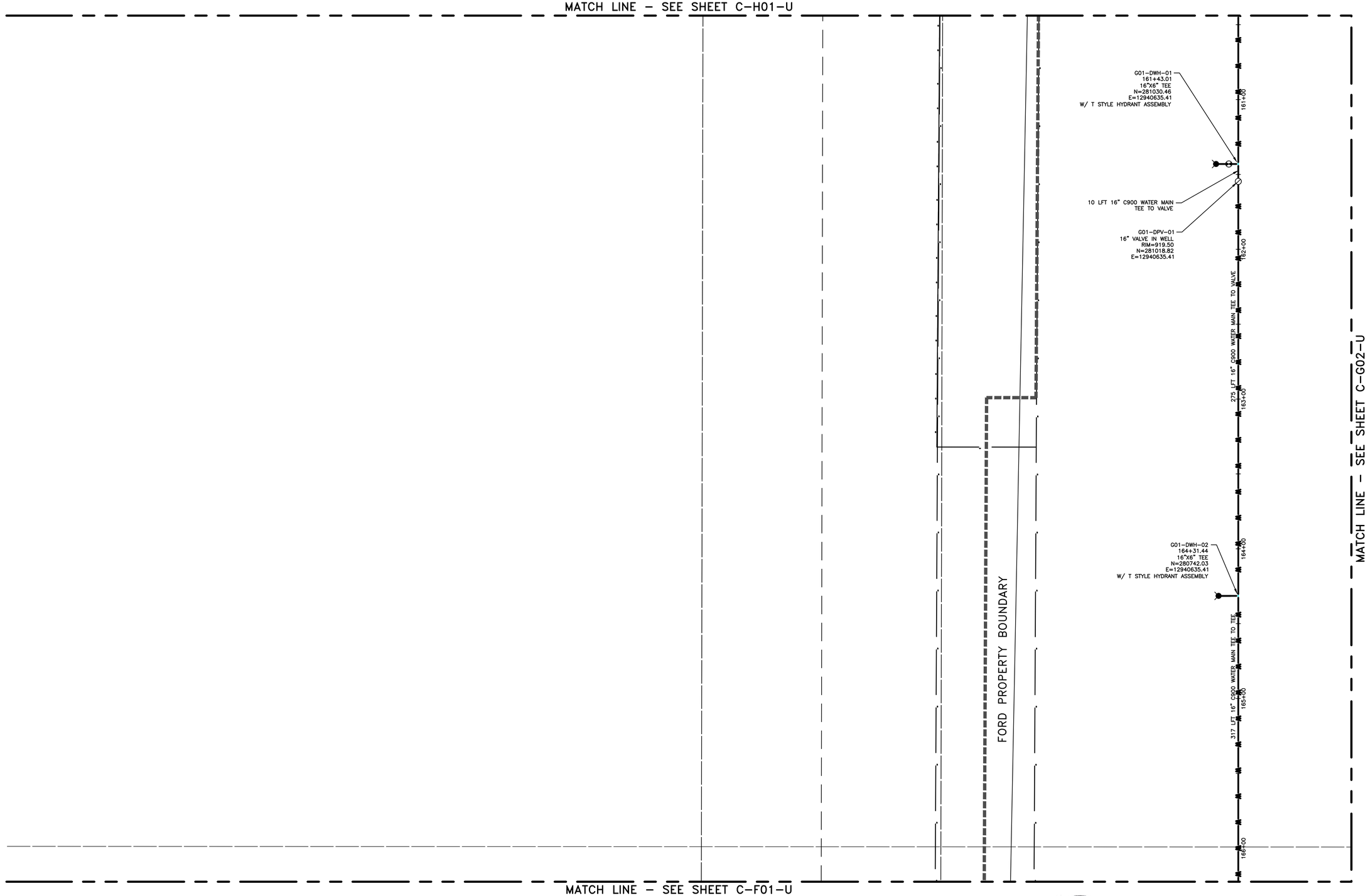

NORTH

PARTIAL G01 GRADING PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

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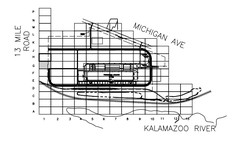

KEY PLAN

SCALE: NO SCALE

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BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL G01
UTILITY PLAN

SHEET NUMBER

C-G01-U

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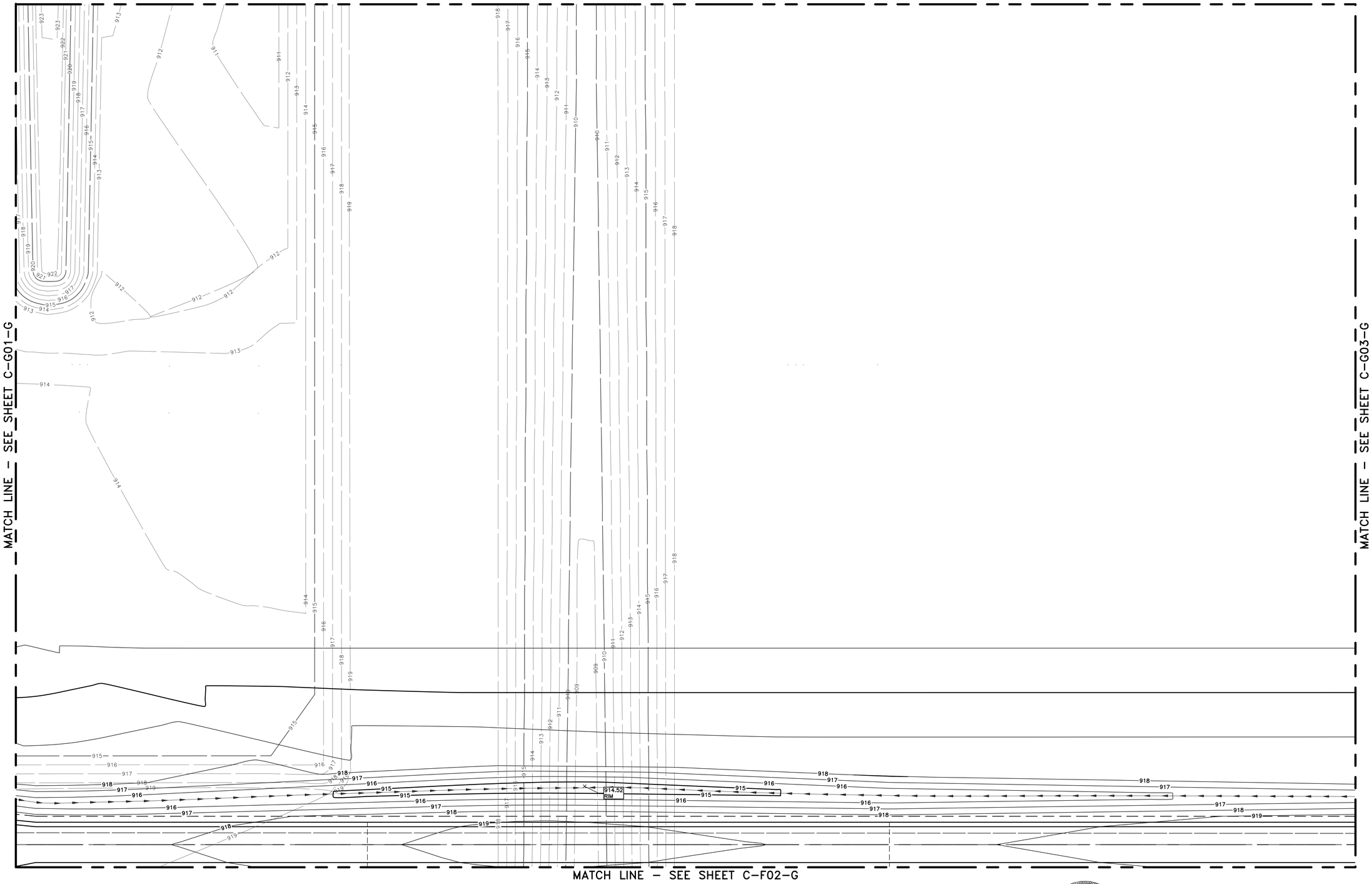

NORTH

PARTIAL G02 GRADING PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

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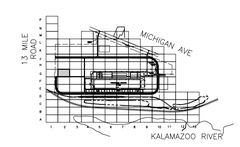

KEY PLAN

SCALE: NO SCALE

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BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL G02
GRADING PLAN

SHEET NUMBER

C-G02-G

PLOT DATE: 9/22/2023 9:42:03 AM SAVE DATE: 9/18/2023 1:47:34 PM GLAZKO, PHOEBE C:\Users\pglazko\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid G\2000000-C-PLTS-G02-G-A22-WADE.dwg

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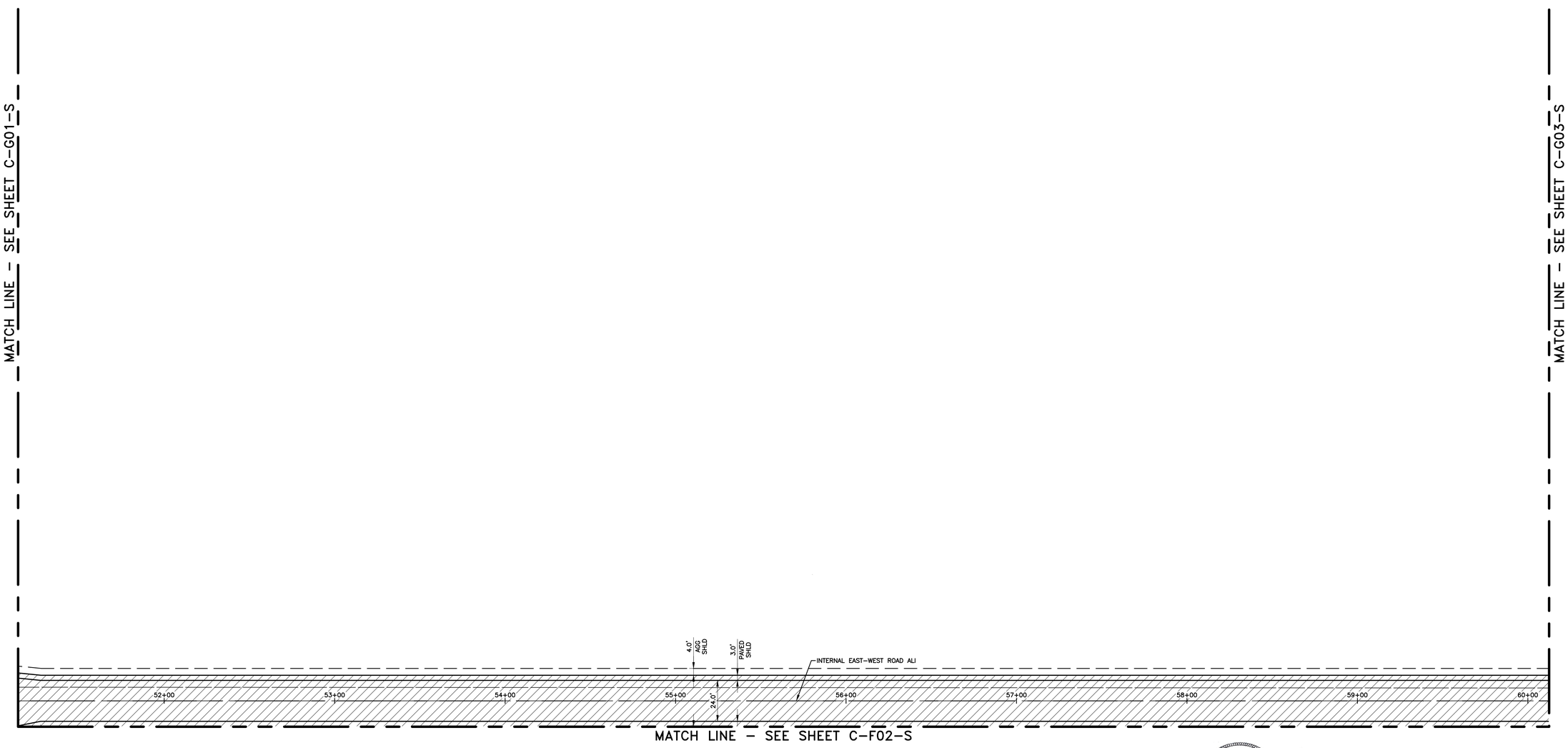
MATCH LINE – SEE SHEET C-G01-S

MATCH LINE – SEE SHEET C-G03-S



MATCH LINE – SEE SHEET C-F02-S

NORTH

PARTIAL G02 SITE PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
REGISTERED PROFESSIONAL ENGINEER

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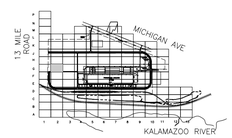

KEY PLAN

SCALE: NO SCALE

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BATTERY PLANT

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FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL G02
SITE PLAN

SHEET NUMBER

C-G02-S

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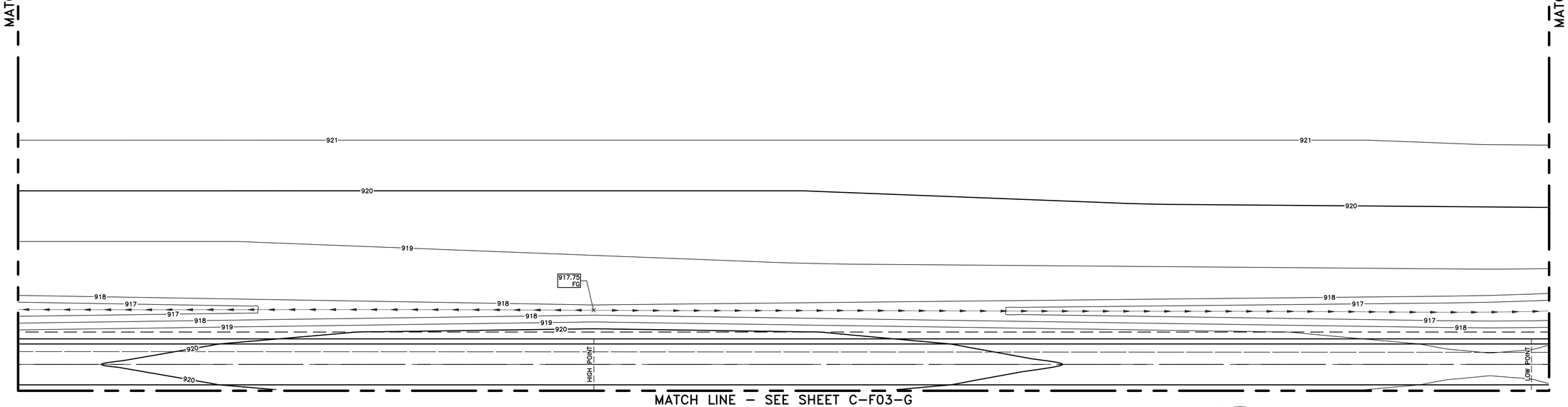
MATCH LINE – SEE SHEET C-H03-G

MATCH LINE – SEE SHEET C-G02-G

MATCH LINE – SEE SHEET C-G04-G



MATCH LINE – SEE SHEET C-F03-G

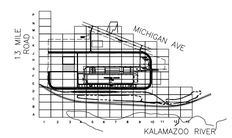
NORTH

PARTIAL G03 GRADING PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION



KEY PLAN

SCALE: NO SCALE

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USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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DATE	ISSUED FOR
09/22/23	• BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT
08/31/23	• BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT

A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL G03
GRADING PLAN

SHEET NUMBER

C-G03-G

PLOT DATE: 9/22/2023 9:45:45 AM SAVE DATE: 8/8/2023 1:03:40 PM GLAZKO, PHOEBE C:\Users\glazkop\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid G\2000000-C-PLTS-G03-C-A22-WADE.dwg

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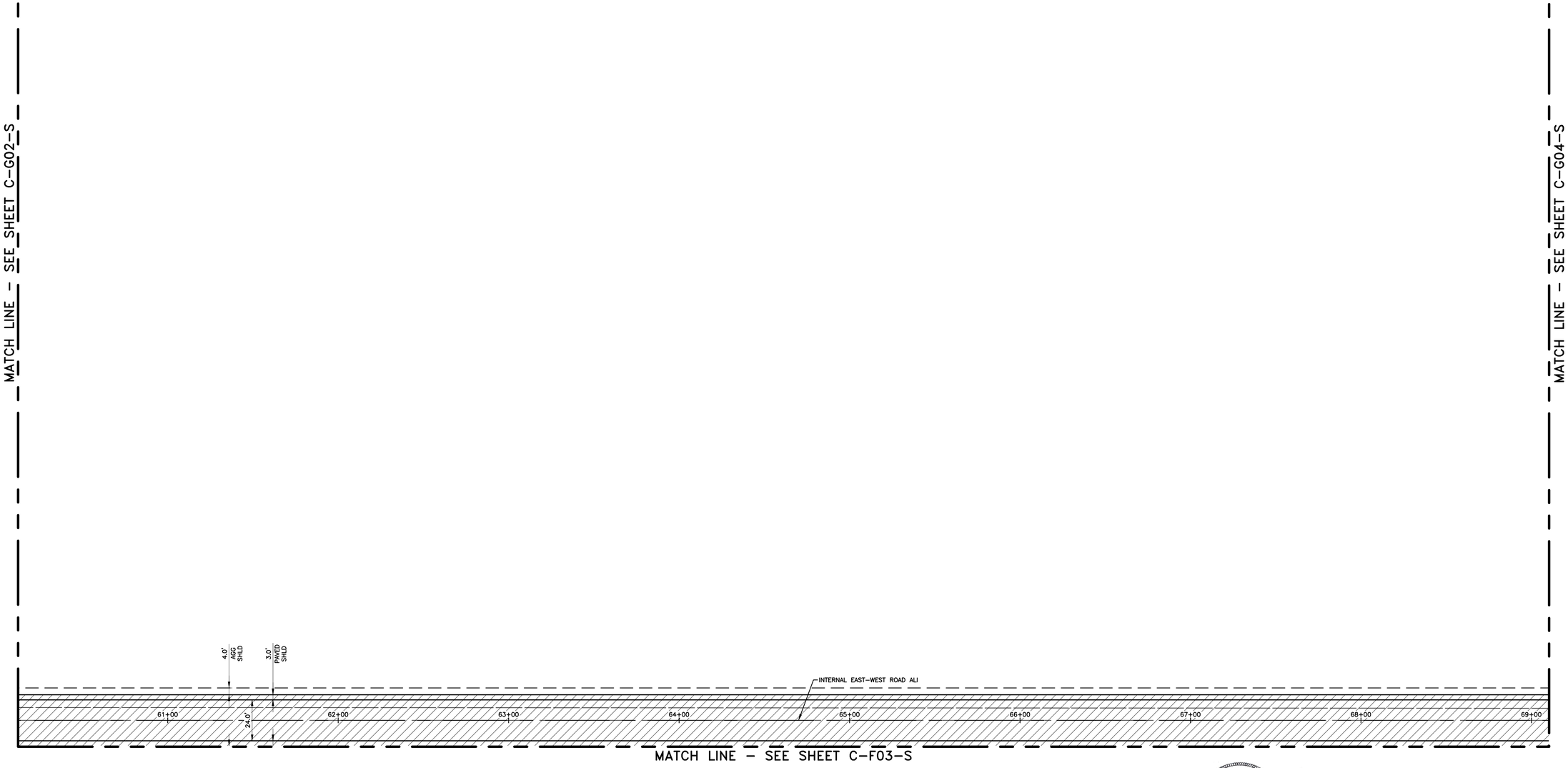
MATCH LINE – SEE SHEET C-H03-S

MATCH LINE – SEE SHEET C-G02-S

MATCH LINE – SEE SHEET C-G04-S



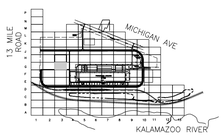
MATCH LINE – SEE SHEET C-F03-S

NORTH

PARTIAL G03 SITE PLAN

SCALE: 1"=30"

NOT FOR CONSTRUCTION



KEY PLAN

SCALE: NO SCALE

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USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL G03
SITE PLAN

SHEET NUMBER

C-G03-S

PLOT DATE: 9/22/2023 9:46:53 AM SAVE DATE: 9/7/2023 12:33:36 PM GLAZKO, PHOEBE C:\Users\glazkop\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid G\2000000-C-PLTS-G03-S-A22-1HADE.dwg

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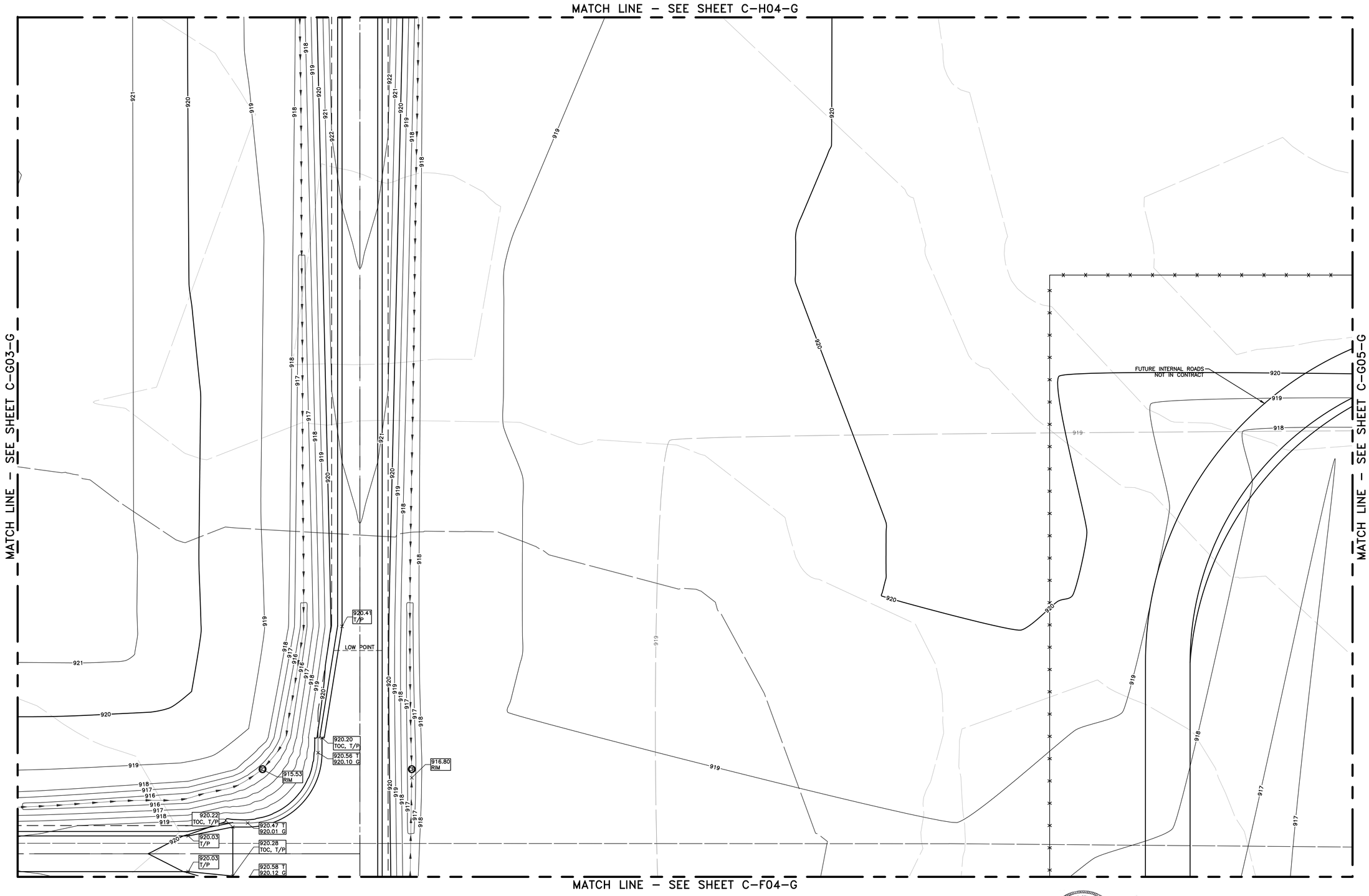

NORTH

PARTIAL G04 GRADING PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

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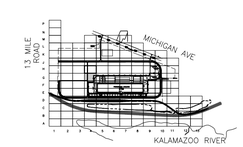

KEY PLAN

SCALE: NO SCALE

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USA

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MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL G04
GRADING PLAN

SHEET NUMBER

C-G04-G

PLOT DATE: 9/22/2023 9:49:21 AM SAVE DATE: 8/18/2023 3:18:25 PM GLAZKO, PHOEBE C:\Users\pglazko\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid G\2000000-C-PLTS-G04-G-A22-WADE.dwg

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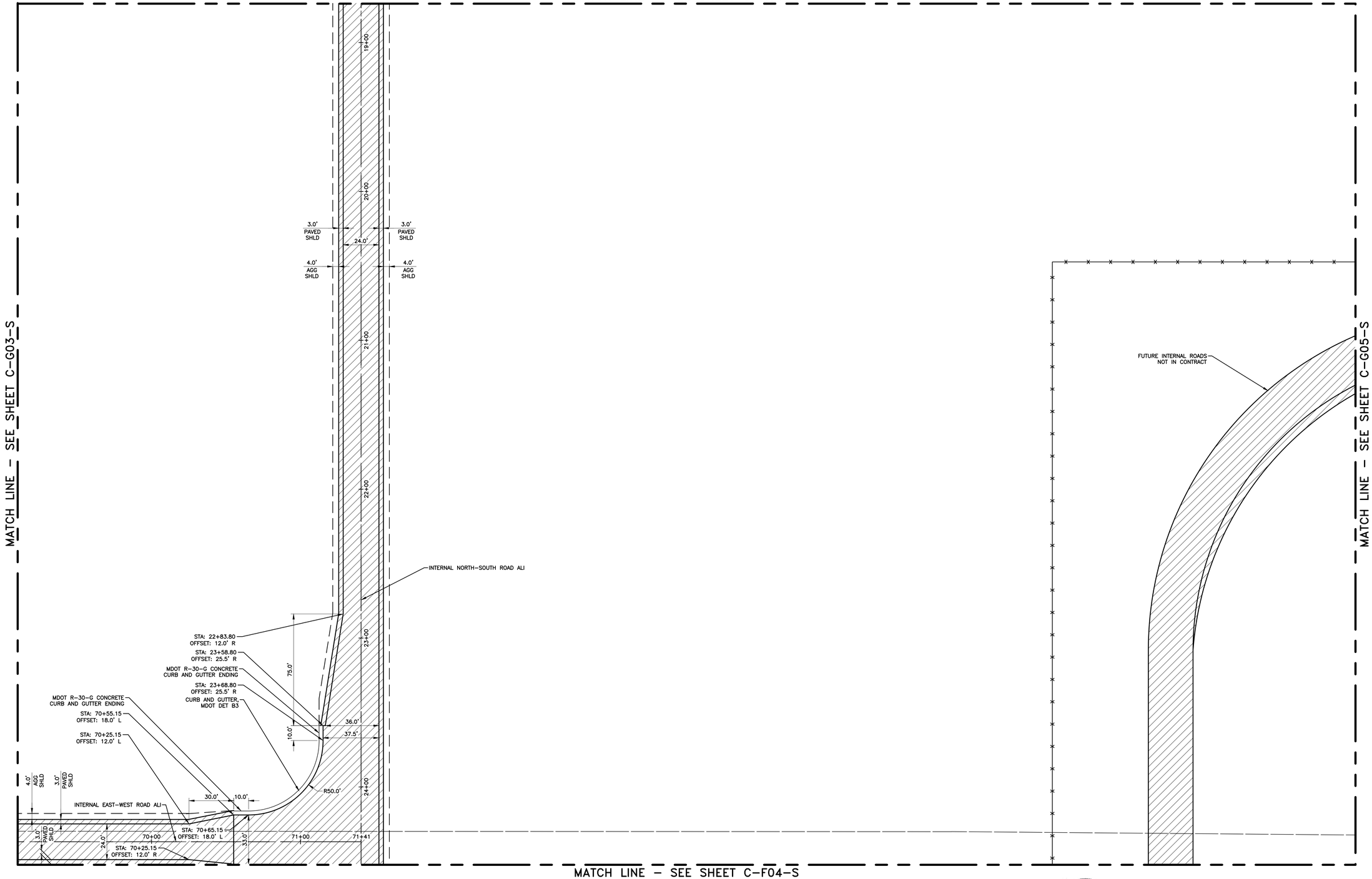
MATCH LINE – SEE SHEET C-G03-S

MATCH LINE – SEE SHEET C-G05-S



MATCH LINE – SEE SHEET C-F04-S

NORTH

PARTIAL G04 SITE PLAN

SCALE: 1"=30"

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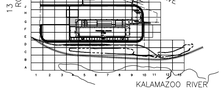

KEY PLAN

SCALE: NO SCALE

FORDLAND

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DEARBORN, MICHIGAN 48120-1168
USA

BLUE OVAL
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MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL G04
SITE PLAN

SHEET NUMBER

C-G04-S

PLOT DATE: 9/22/2023 9:50:29 AM

SAVE DATE: 9/7/2023 12:32:32 PM

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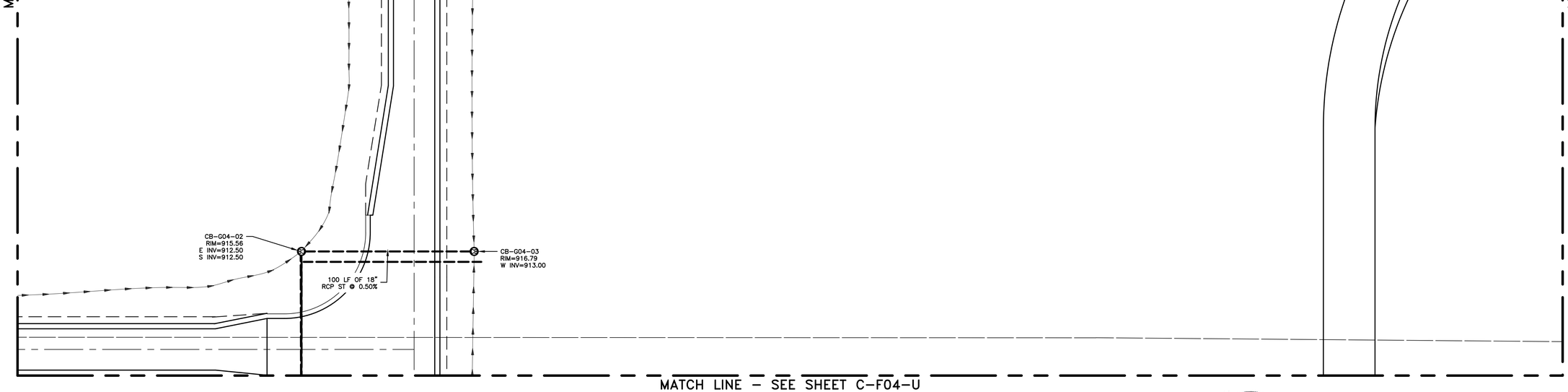
MATCH LINE – SEE SHEET C-H04-U

MATCH LINE – SEE SHEET C-G03-U

MATCH LINE – SEE SHEET C-G05-U



MATCH LINE – SEE SHEET C-F04-U

NORTH

PARTIAL G04 UTILITY PLAN

SCALE: 1"=30"

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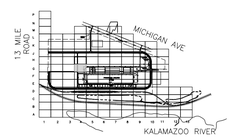
STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
REGISTERED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION



KEY PLAN

SCALE: NO SCALE

FORDLAND

17000 ROTUNDA DR, 1ST FLOOR SOUTH
DEARBORN, MICHIGAN 48120-1168
USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL G04
UTILITY PLAN

SHEET NUMBER

C-G04-U

PLOT DATE: 9/22/2023 9:52:13 AM
SAVE DATE: 8/20/2023 3:54:08 PM
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NORTH

PARTIAL G09 GRADING PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

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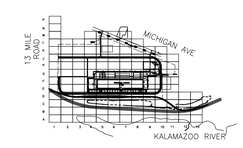

KEY PLAN

SCALE: NO SCALE

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USA

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BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL G09
GRADING PLAN

SHEET NUMBER

C-G09-G

PLOT DATE: 9/22/2023 9:54:38 AM SAVE DATE: 9/20/2023 4:59:19 PM GLAZKO, PHOEBE C:\Users\pglazko\DC\ACCDocs\Wade Trim\FRD2011-QSF Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid G\2000000-C-PLTS-G09-G-A22-WADE.dwg

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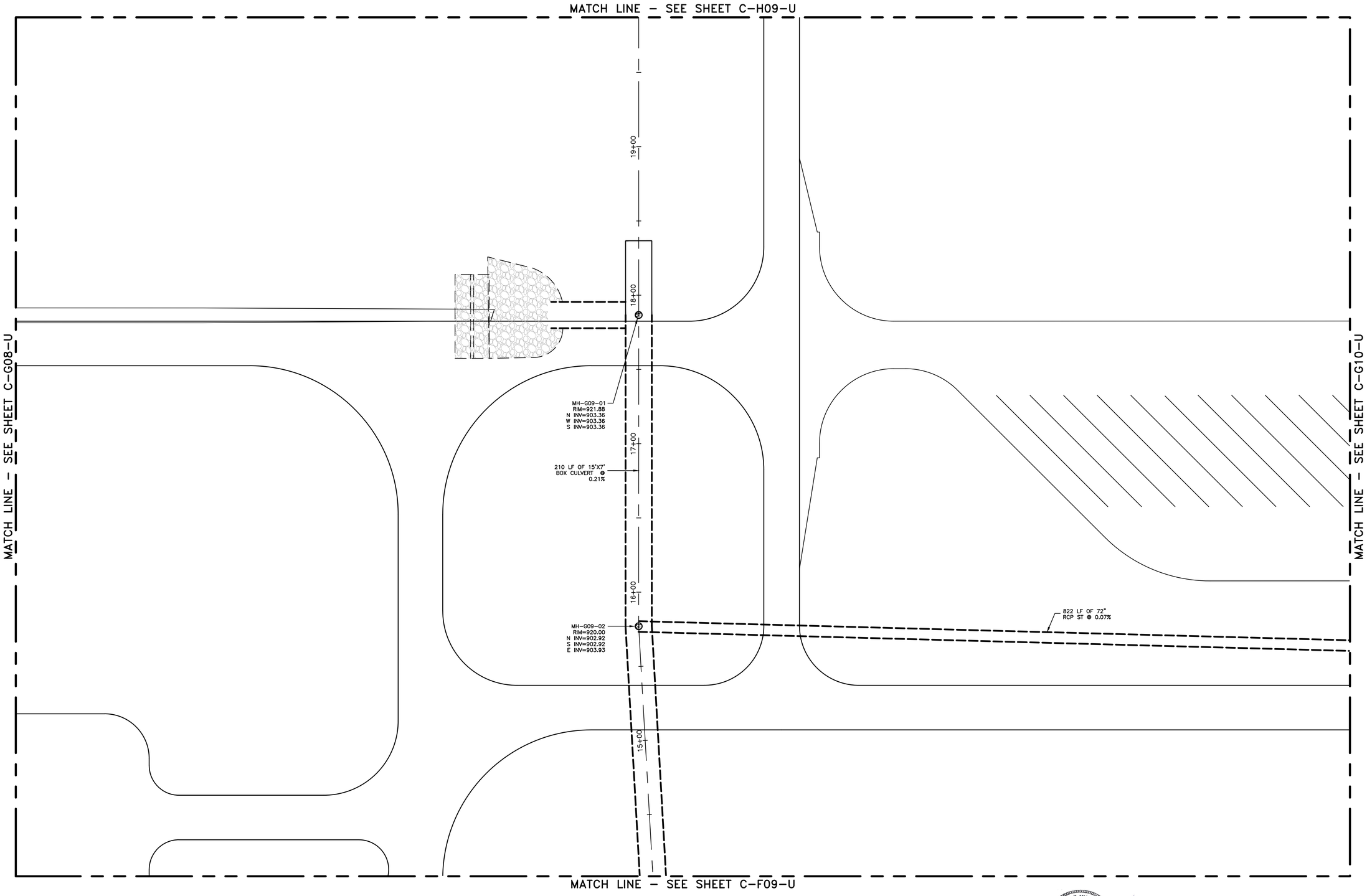


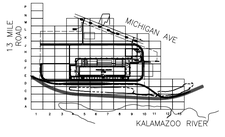
NORTH

PARTIAL G09 GRADING PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION



KEY PLAN

SCALE: NO SCALE

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USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL G09
UTILITY PLAN

SHEET NUMBER

C-G09-U

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MATCH LINE – SEE SHEET C-G09-G

FUTURE TRUCK STAGING NOT IN CONTRACT

919.76 FG

920.57 FG

921.61 FG

919.00 FG

FORD PROPERTY BOUNDARY

FORD PROPERTY BOUNDARY

LOW POINT

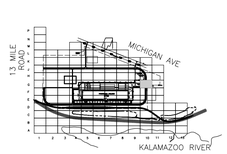
MATCH LINE – SEE SHEET C-F10-G

NORTH

PARTIAL G10 GRADING PLAN

SCALE: 1"=30"

NOT FOR CONSTRUCTION



KEY PLAN

SCALE: NO SCALE

Know what's below. Call before you dig.

Border version 2014.0

FORDLAND

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DEARBORN, MICHIGAN 48120-1168
USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL G10 GRADING PLAN

SHEET NUMBER

C-G10-G

PLOT DATE: 9/22/2023 9:59:59 AM
SAVE DATE/BY: 9/20/2023 10:22:09 AM GLAZKO, PHOEBE
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Border version 2014.0

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MATCH LINE – SEE SHEET C-H10-S

MATCH LINE – SEE SHEET C-G09-S

MATCH LINE – SEE SHEET C-F10-S

FUTURE TRUCK STAGING NOT IN CONTRACT

REFER TO GRID SHEET C-G09-U FOR STORM LINE INFORMATION.

u.p.

584+00 585+00 586+00 587+00 588+00 589+00

185+00 186+00 187+00 188+00 189+00 190+00

TRANSITION LEFT LANE CROSS SLOPE FROM -2% TO 2%

TRANSITION LEFT LANE CROSS SLOPE FROM -2% TO 1%

TRANSITION LEFT LANE CROSS SLOPE FROM -1% TO -2%

+50.00 +13.01 +63.01 +39.01

+86.68 +36.68 +36.34

4.0' AGG SHLD | 24.0' | 3.0' PAVED SHLD

4.0' AGG SHLD | 4.0' AGG SHLD | 58.0' | 3.0' PAVED SHLD | 3.0' PAVED SHLD

2% 2% 1% 1%

STA: 585+29.68
OFFSET: 0.0' L

75.0'

STA: 586+04.68
OFFSET: 12.0' L

INNER RING ROAD ALI
OUTER RING ROAD ALI

STA: 187+13.01
OFFSET: 24.0' L

50.0'

36.0' | 12.0' | 132.0' | 37.5' | 10.0'

STA: 187+63.01
OFFSET: 37.5' L

STA: 187+73.01
OFFSET: 37.5' L

MDOT R-30-G CONCRETE CURB AND GUTTER ENDING

CURB AND GUTTER, MDOT DET B3

R75.0'

FORD PROPERTY BOUNDARY

10.0'

MDOT R-30-G CONCRETE CURB AND GUTTER ENDING

STA: 587+36.68
OFFSET: 12.0' L

R20.0'

R5.0'

STA: 587+56.68
OFFSET: 32.0' L

STA: 188+47.79
OFFSET: 5.0' R

STA: 188+42.79
OFFSET: 0.0' L

STA: 188+84.01
OFFSET: 57.5' L

R20.0'

STA: 189+04.01
OFFSET: 37.5' L

65.0' | 37.5'

STA: 189+10.01
OFFSET: 37.5' L

STA: 189+30.01
OFFSET: 57.5' L

STA: 189+67.04
OFFSET: 5.0' R

STA: 588+75.93
OFFSET: 23.9' L

STA: 189+72.04
OFFSET: 0.0' L

STA: 588+92.09
OFFSET: 4.3' L

R230.0'

STA: 589+36.34
OFFSET: 0.0' L

STA: 190+29.01
OFFSET: 37.5' L

STA: 190+39.01
OFFSET: 37.5' L

36.0' | 240.0' | 10.0'

NORTH

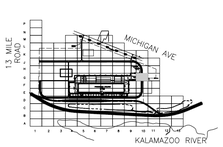
PARTIAL G10 SITE PLAN

SCALE: 1"=30"

NOT FOR CONSTRUCTION

KEY PLAN

SCALE: NO SCALE



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USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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Taylor, MI 48180
734.947.9700
www.wadetrim.com

A/E OF RECORD REGISTRATION SEAL

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45567
REGISTERED PROFESSIONAL ENGINEER

Walbridge

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08/31/23	• BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT

A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL G10 SITE PLAN

SHEET NUMBER

C-G10-S

PLOT DATE: 9/22/2023 10:00:49 AM
SAVE DATE: 9/22/2023 12:55:50 PM
GLAZKO, PHOEBE
C:\Users\glazko\DOCACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid G2000000-C-PLTS-G10-S-A22-WADE.dwg

MATCH LINE – SEE SHEET C-H10-U

MATCH LINE – SEE SHEET C-G09-U

425 LFT 16" C900 WATER MAIN VALVE TO BEND

16" 45° VERT. BEND
N=280837.19
E=12948256.76

2 LFT 16" C900 WATER MAIN
BEND TO BEND

16" 45° VERT. BEND
N=280834.83
E=12948256.76

20 LFT 16" C900 WATER MAIN
BEND TO BEND

16" 45° VERT. BEND
N=280813.50
E=12948256.76

2 LFT 16" C900 WATER MAIN
BEND TO BEND

16" 45° VERT. BEND
N=280810.61
E=12948256.76

CB-G10-06
RIM=919.76
E INV=906.50
S INV=906.50

100 LF OF 54"
RCP ST @ 0.50%

REFER TO GRID
SHEET C-G09-U
FOR STORM LINE
INFORMATION.

CB-G10-04
RIM=919.03
N INV=906.00
S INV=909.00
W INV=904.50

95 LF OF 30" RCP
ST @ 0.52%

CB-G10-01
RIM=918.28
E INV=910.00
N INV=909.50

8 LFT 16" C900 WATER MAIN
BEND TO BEND

17 LFT 16" C900 WATER MAIN
TEE TO VALVE

16" X 16" TEE
N=280565.18
E=12948256.77

G10-DPV-01
16" VALVE IN WELL
RIM=918.86
N=280553.65
E=12948256.76

16" STUB
AND PLUG
N=280565.18
E=12948232.39

33 LFT 16" C900 WATER MAIN
VALVE TO BEND

G10-DPV-02
16" VALVE IN WELL
RIM=921.22
N=280776.69
E=12948256.77

13 LFT 16" C900 WATER MAIN
TEE TO VALVE

G10-DWH-01
66+77.58
16"X6" TEE
N=280762.10
E=12948256.76
W/ P STYLE HYDRANT ASSEMBLY

16" 45° VERT. BEND
N=280633.58
E=12948256.77

19 LFT 16" C900 WATER MAIN
BEND TO BEND

16" 45° VERT. BEND
N=280613.18
E=12948256.77

18 LFT 16" C900 WATER MAIN
BEND TO BEND

74 LF OF 24" RCP
ST @ 0.67%

CB-G10-02
RIM=919.00
E INV=910.50
W INV=910.50

16" 45° VERT. BEND
N=280593.53
E=12948256.77

16" 45° VERT. BEND
N=280584.04
E=12948256.77

162 LFT 16" C900 WATER MAIN TEE TO VALVE

127 LFT 16" C900 WATER MAIN TEE TO BEND

79 LF OF 54" RCP
ST @ 0.63%

CB-G10-07
RIM=920.15
E INV=907.00
W INV=907.00

96 LF OF 54" RCP
ST @ 0.52%

CB-G10-08
RIM=919.00
W INV=907.50

CB-G10-05
RIM=919.00
S INV=912.00

94 LF OF 18" RCP
ST @ 0.53%

CB-G10-03
RIM=919.00
N INV=911.50
W INV=911.00

105 LF OF 24"
RCP ST @ 0.48%

Appurtenance – (136)
16" VALVE IN WELL
RIM=921.08
N=280563.34
E=12948420.55

16" DOMESTIC WATER
FEED FROM CITY

MATCH LINE – SEE SHEET C-F10-U

NORTH

PARTIAL G10 UTILITY PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

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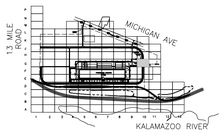

KEY PLAN

SCALE: NO SCALE

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MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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09/22/23	• BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT
08/31/23	• BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT

A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL G10
UTILITY PLAN

SHEET NUMBER

C-G10-U

PLOT DATE: 9/22/2023 10:02:21 AM SAVE DATE: 9/21/2023 2:49:14 PM GLAZKO, PHOEBE C:\Users\glazkop\ado\DCA\CCDocs\Wade Trim\FRD2001-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\SHT G02000000-C-PLTS-G10-U-A22-HADE.dwg

MATCH LINE – SEE SHEET C-J01-U

FORD PROPERTY BOUNDARY

155+00

156+00

550 LFT 16" C900 WATER MAIN TEE TO VALVE

157+00

H01-DPV-01
16" VALVE IN WELL
RIM=919.50
N=281363.60
E=12940635.41

10 LFT 16" C900 WATER MAIN
TEE TO VALVE

H01-DWH-01
158+21.43
16"X6" TEE
N=281352.04
E=12940635.41
W/ T STYLE HYDRANT ASSEMBLY

158+00

159+00

319 LFT 16" C900 WATER MAIN TEE TO TEE

160+00

MATCH LINE – SEE SHEET C-H02-U

MATCH LINE – SEE SHEET C-G01-U

NORTH

PARTIAL H01 UTILITY PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

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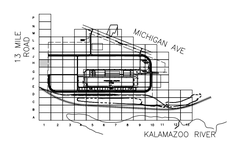

KEY PLAN

SCALE: NO SCALE

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BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL H01
UTILITY PLAN

SHEET NUMBER

C-H01-U

PLOT DATE: 9/22/2023 9:03:47 AM SAVE DATE: 9/21/2023 2:52:40 PM FIELD: JAKE C:\Users\jfield\DOCACDDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid H2000000-C-PLTS-H01-U-A22-WADE.dwg

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MATCH LINE – SEE SHEET C-J04-G

MATCH LINE – SEE SHEET C-H03-G

MATCH LINE – SEE SHEET C-H05-G

MATCH LINE – SEE SHEET C-G04-G

920.22 FG

920.22 FG

919.87 FG

919.87 FG

HIGH POINT

BATTERY DI

EXHAUST

NORTH

PARTIAL H04 GRADING PLAN

SCALE: 1"=30"

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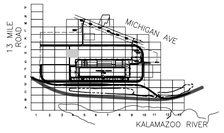
STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
REGISTERED PROFESSIONAL ENGINEER



KEY PLAN

SCALE: NO SCALE

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USA

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MICHIGAN
BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL H04 GRADING PLAN

SHEET NUMBER

C-H04-G

PLOT DATE: 9/22/2023 9:05:41 AM
SAVE DATE: 9/19/2023 10:31:36 AM
FIELD, JAKE
C:\Users\jfield\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid H2000000I-CPLTS-H04-G-A22-WADE.dwg

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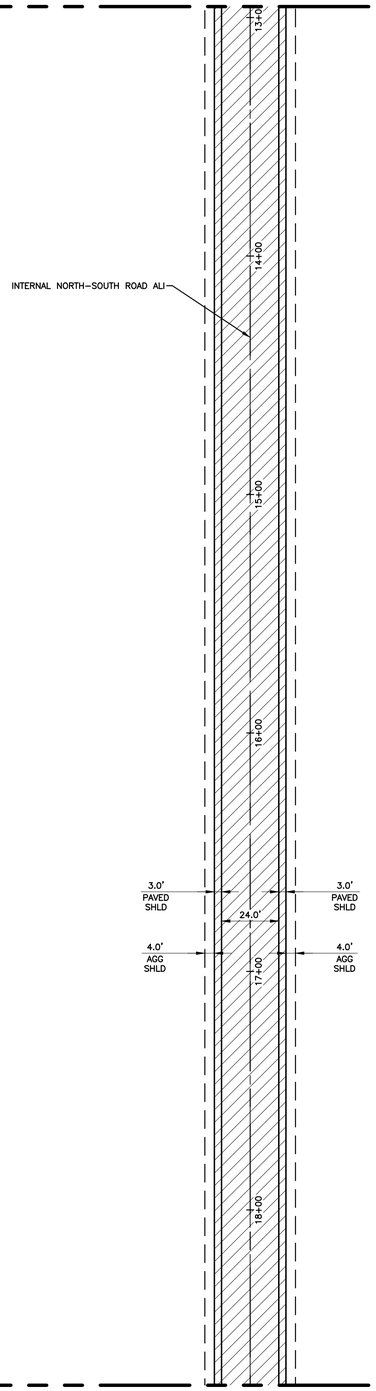
MATCH LINE – SEE SHEET C–H03–S



MATCH LINE – SEE SHEET C–H05–S

MATCH LINE – SEE SHEET C–G04–S

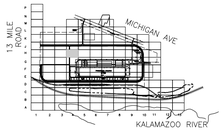
NORTH

PARTIAL H04 SITE PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION



KEY PLAN

SCALE: NO SCALE

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MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL H04
SITE PLAN

SHEET NUMBER

C-H04-S

C:\Users\jfield\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid H2000000-C-PLT-S-H04-S-A22-WADE.dwg

FIELD: JAKE

SAVE DATE: 9/19/2023 10:36:15 AM

PLOT DATE: 9/22/2023 9:06:39 AM

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MATCH LINE – SEE SHEET C-J10-G

MATCH LINE – SEE SHEET C-H09-G

MATCH LINE – SEE SHEET C-G10-G

FUTURE TRUCK STAGING NOT IN CONTRACT

HIGH POINT

924.24 FG

924.30 FG

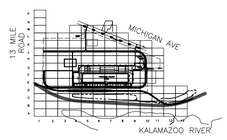
NORTH

PARTIAL H10 GRADING PLAN

SCALE: 1"=30"

NOT FOR CONSTRUCTION

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER



KEY PLAN

SCALE: NO SCALE

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BLUE OVAL
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MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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08/31/23	• BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT

A/E TEAM INFORMATION	
IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL H10 GRADING PLAN

SHEET NUMBER

C-H10-G

PLOT DATE: 9/22/2023 9:08:24 AM
SAVE DATE: 9/19/2023 11:02:30 AM
FIELD. JAKE
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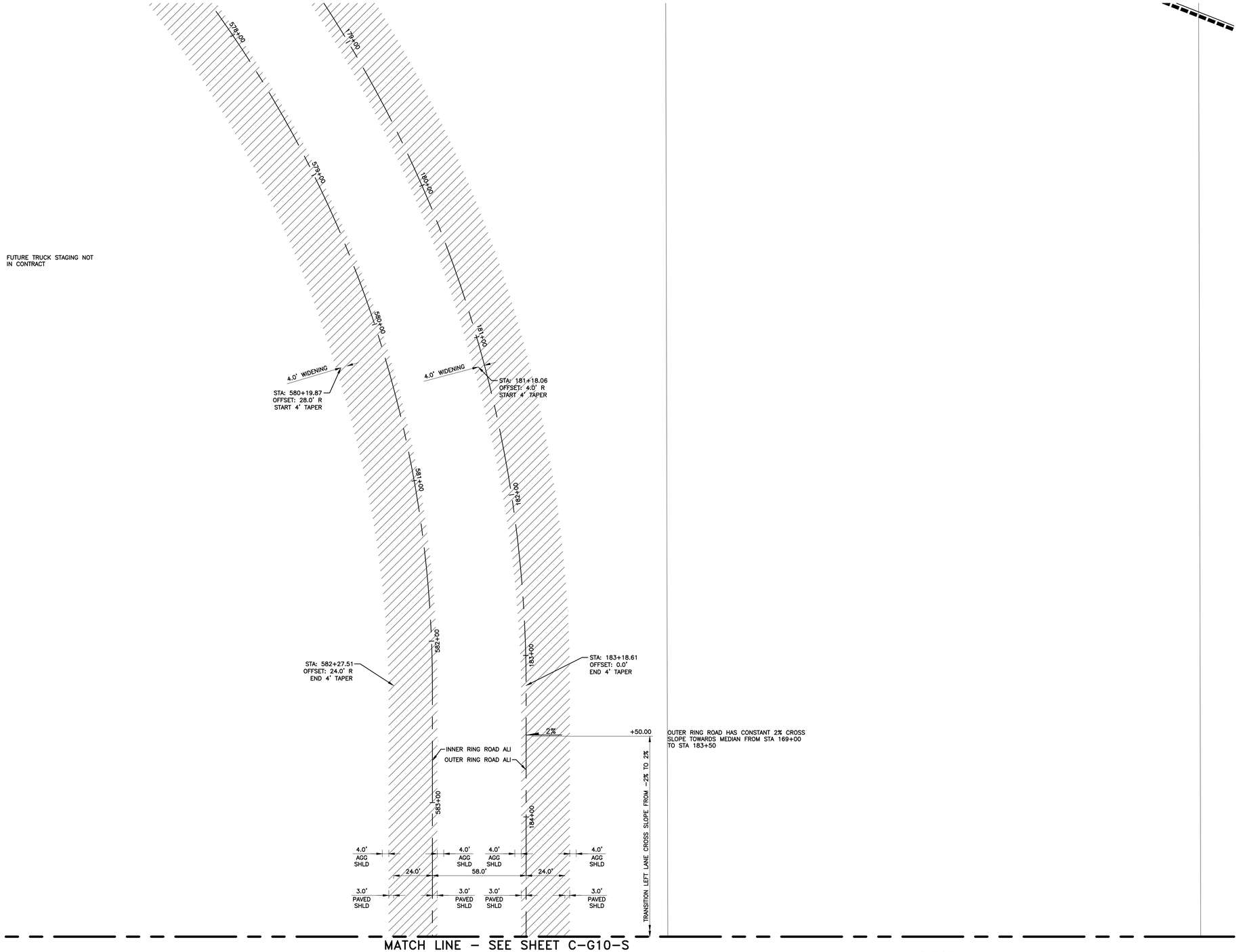


MATCH LINE – SEE SHEET C-G10-S

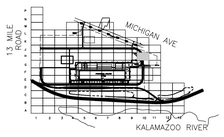
NORTH

PARTIAL H10 SITE PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITA
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION



KEY PLAN

SCALE: NO SCALE

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USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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09/22/23	• BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT
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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL H10
SITE PLAN

SHEET NUMBER

C-H10-S

PLOT DATE: 9/22/2023 9:09:21 AM SAVE DATE: 9/19/2023 11:04:09 AM FIELD, JAKE

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478 LFT 16" C900 WATER MAIN TEE TO VALVE

H10-DWH-01
71+90.58
16"X6" TEE
N=281275.10
E=12948256.76
W/ P STYLE HYDRANT ASSEMBLY

10 LFT 16" C900 WATER MAIN
TEE TO VALVE

H10-DPV-01
16" VALVE IN WELL
RIM=923.73
N=281263.49
E=12948256.76

MATCH LINE – SEE SHEET C-G10-U

NORTH

PARTIAL H10 UTILITY PLAN

SCALE: 1"=30"

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NO. 45667
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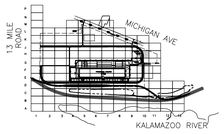

KEY PLAN

SCALE: NO SCALE

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BATTERY PLANT

MARSHALL CALHOUN CO. MI

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL H10
UTILITY PLAN

SHEET NUMBER

C-H10-U

PLOT DATE: 9/22/2023 9:10:26 AM
SAVE DATE: 9/21/2023 3:06:21 PM
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MATCH LINE – SEE SHEET C–J02–G

FORD PROPERTY BOUNDARY

LOW POINT

LOW POINT

MATCH LINE – SEE SHEET C–H01–G

NORTH

PARTIAL J01 GRADING PLAN

SCALE: 1"=30"

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ENGINEER
NO. 45667
REGISTERED PROFESSIONAL ENGINEER

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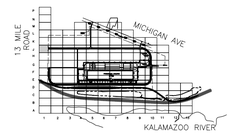

KEY PLAN

SCALE: NO SCALE

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BATTERY PLANT

MARSHALL CALHOUN CO. MI

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL J01 GRADING PLAN

SHEET NUMBER

C-J01-G

PLOT DATE: 9/22/2023 9:12:10 AM
SAVE DATE: 9/19/2023 12:03:05 PM
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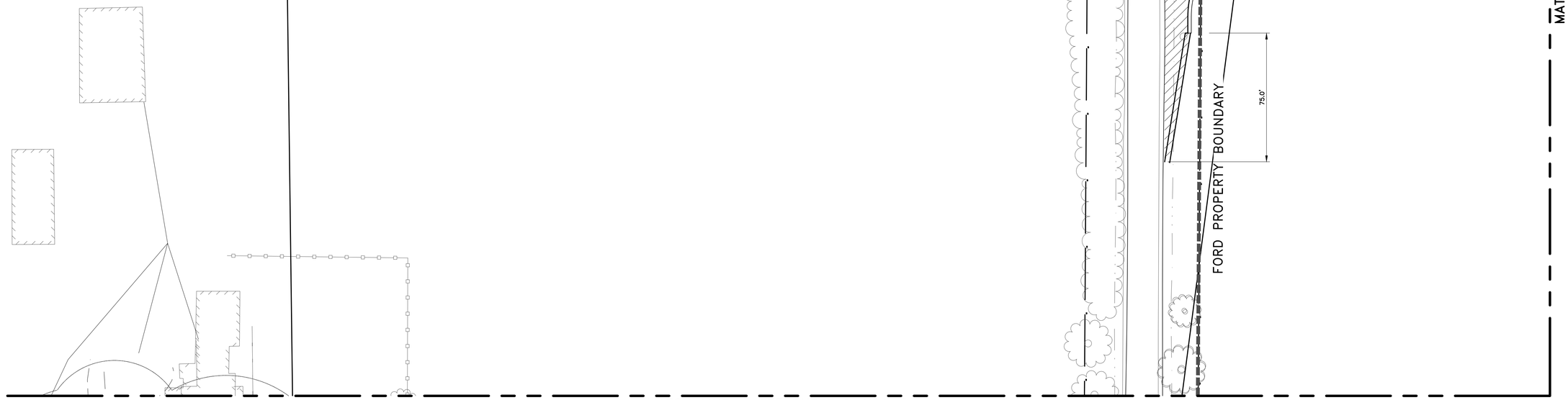

MATCH LINE – SEE SHEET C–J02–S

MATCH LINE – SEE SHEET C–H01–S

NORTH

PARTIAL J01 SITE PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
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ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

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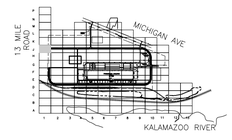

KEY PLAN

SCALE: NO SCALE

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BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL J01
SITE PLAN

SHEET NUMBER

C-J01-S

PLOT DATE: 9/22/2023 9:13:41 AM SAVE DATE: 9/7/2023 12:14:26 PM FIELD, JAKE

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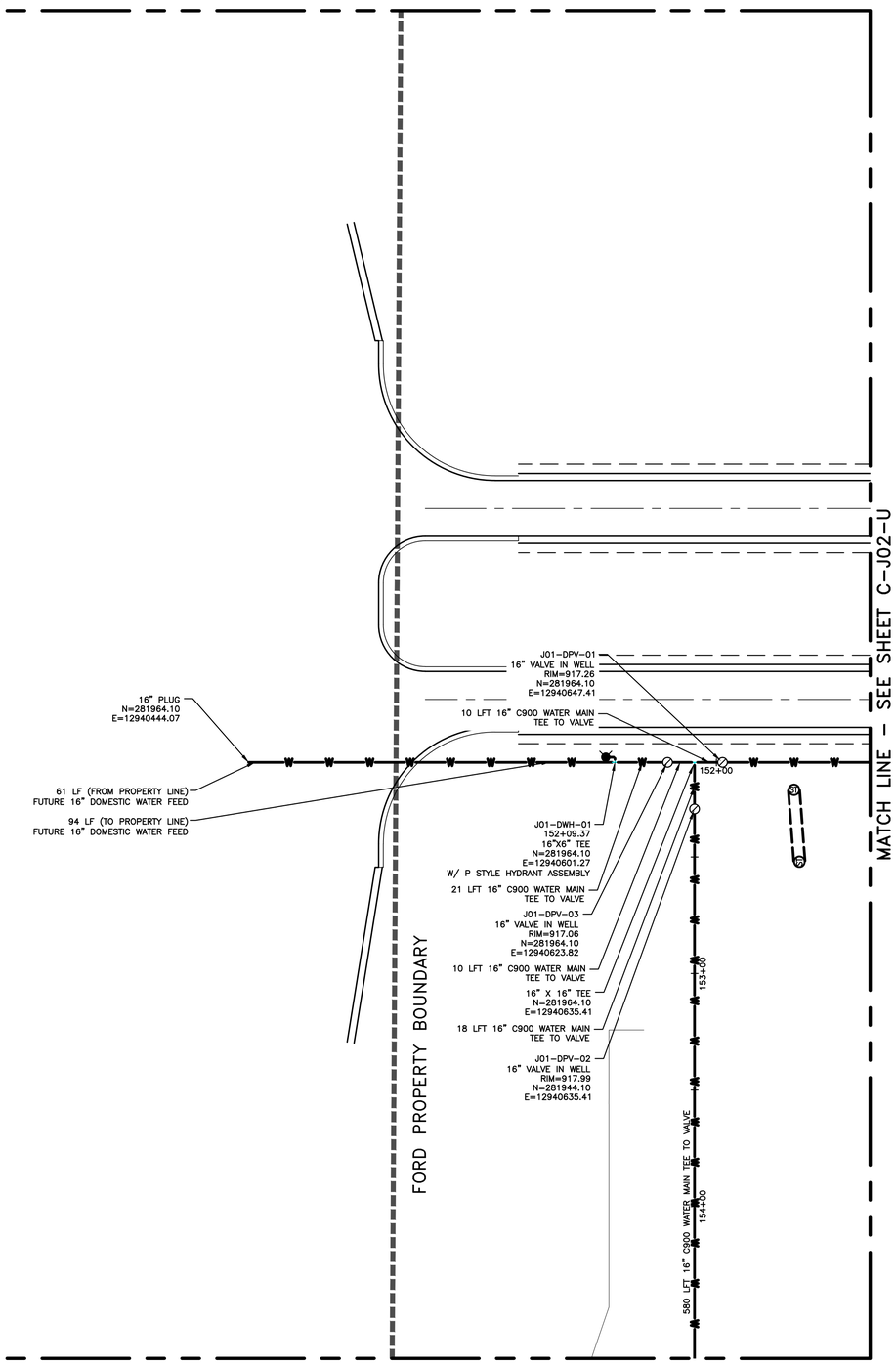

MATCH LINE – SEE SHEET C-H01-U

NORTH

PARTIAL J01 UTILITY PLAN

SCALE: 1"=30"

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ENGINEER
NO. 45667
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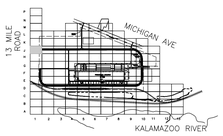

KEY PLAN

SCALE: NO SCALE

FORD LAND

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USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL J01
UTILITY PLAN

SHEET NUMBER

C-J01-U

PLOT DATE: 9/22/2023 9:14:44 AM SAVE DATE 9/12/2023 12:06:46 PM FIELD, JAKE C:\Users\fieldj\DCA\CADDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid J2000000-CPLTS-SAT-LOA2E-WADE.dwg

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MATCH LINE – SEE SHEET C-J01-G

MATCH LINE – SEE SHEET C-J03-G

MATCH LINE – SEE SHEET C-H02-G

HIGH POINT

LOW POINT

HIGH POINT

LOW POINT

915.33 RIM

917.42 RIM

919.05 RIM

NORTH

PARTIAL J02 GRADING PLAN

SCALE: 1"=30"

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ENGINEER
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LICENSED PROFESSIONAL ENGINEER

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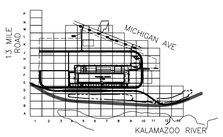

KEY PLAN

SCALE: NO SCALE

FORD LAND
17000 ROTUNDA DR, 1ST FLOOR SOUTH
DEARBORN, MICHIGAN 48120-1168
USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL J02
GRADING PLAN

SHEET NUMBER

C-J02-G

PLOT DATE: 9/22/2023 9:16:40 AM
SAVE DATE: 9/2023 12:40:13 PM
FIELD, JAKE
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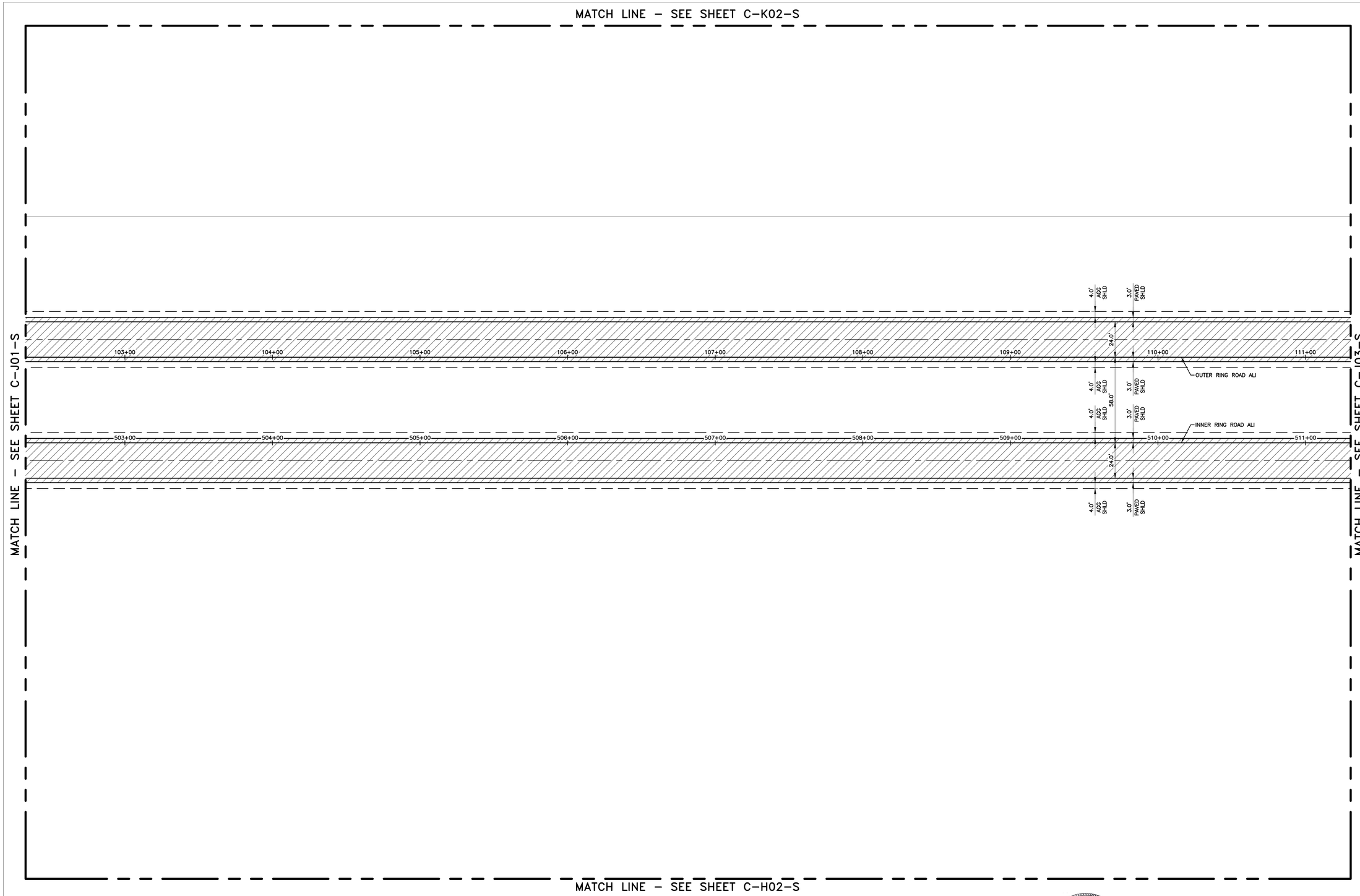

NORTH

PARTIAL J02 SITE PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
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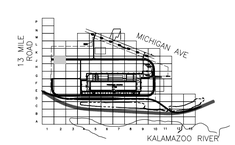

KEY PLAN

SCALE: NO SCALE

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FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL J02
SITE PLAN

SHEET NUMBER

C-J02-S

PLOT DATE: 9/22/2023 9:17:33 AM SAVE DATE: 9/12/2023 9:30:26 AM FIELD, JAKE

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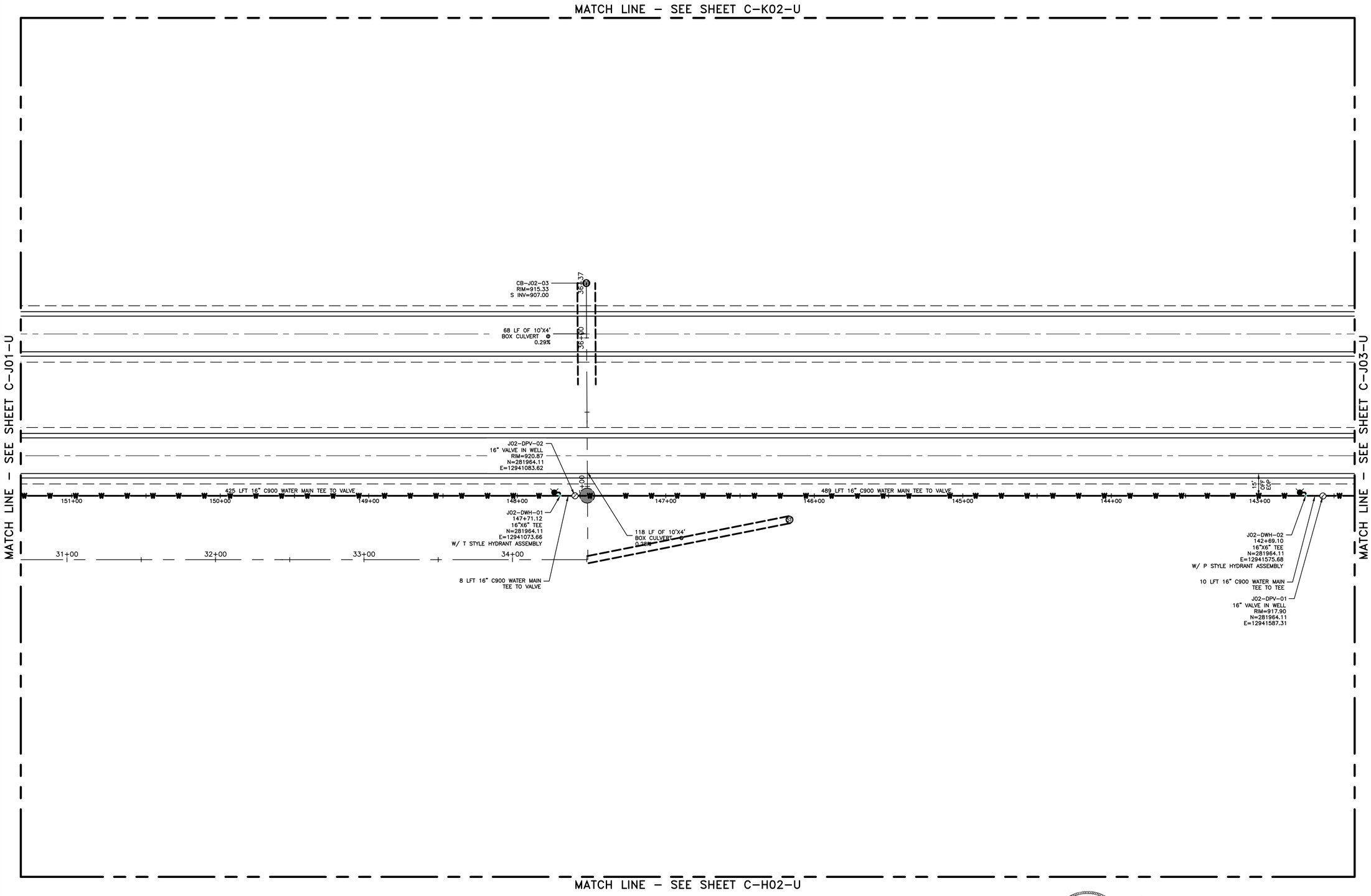

NORTH

PARTIAL J02 UTILITY PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

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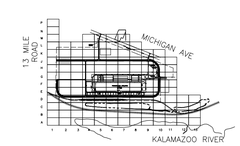

KEY PLAN

SCALE: NO SCALE

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BATTERY PARK
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BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL J02 UTILITY PLAN

SHEET NUMBER

C-J02-U

PLOT DATE: 9/22/2023 9:18:57 AM SAVE DATE: 9/13/2023 9:34:24 AM FIELD, JAKE

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MATCH LINE – SEE SHEET C-J02-G

MATCH LINE – SEE SHEET C-J04-G

HIGH POINT

MATCH LINE – SEE SHEET C-H03-G

NORTH

PARTIAL J03 GRADING PLAN

SCALE: 1"=30"

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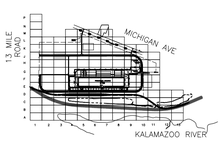

KEY PLAN

SCALE: NO SCALE

FORD LAND

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USA

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BATTERY PLANT

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL J03
GRADING PLAN

SHEET NUMBER

C-J03-G

PLOT DATE: 9/22/2023 9:20:59 AM
SAVE DATE: 9/19/2023 12:45:56 PM
FIELD, JAKE
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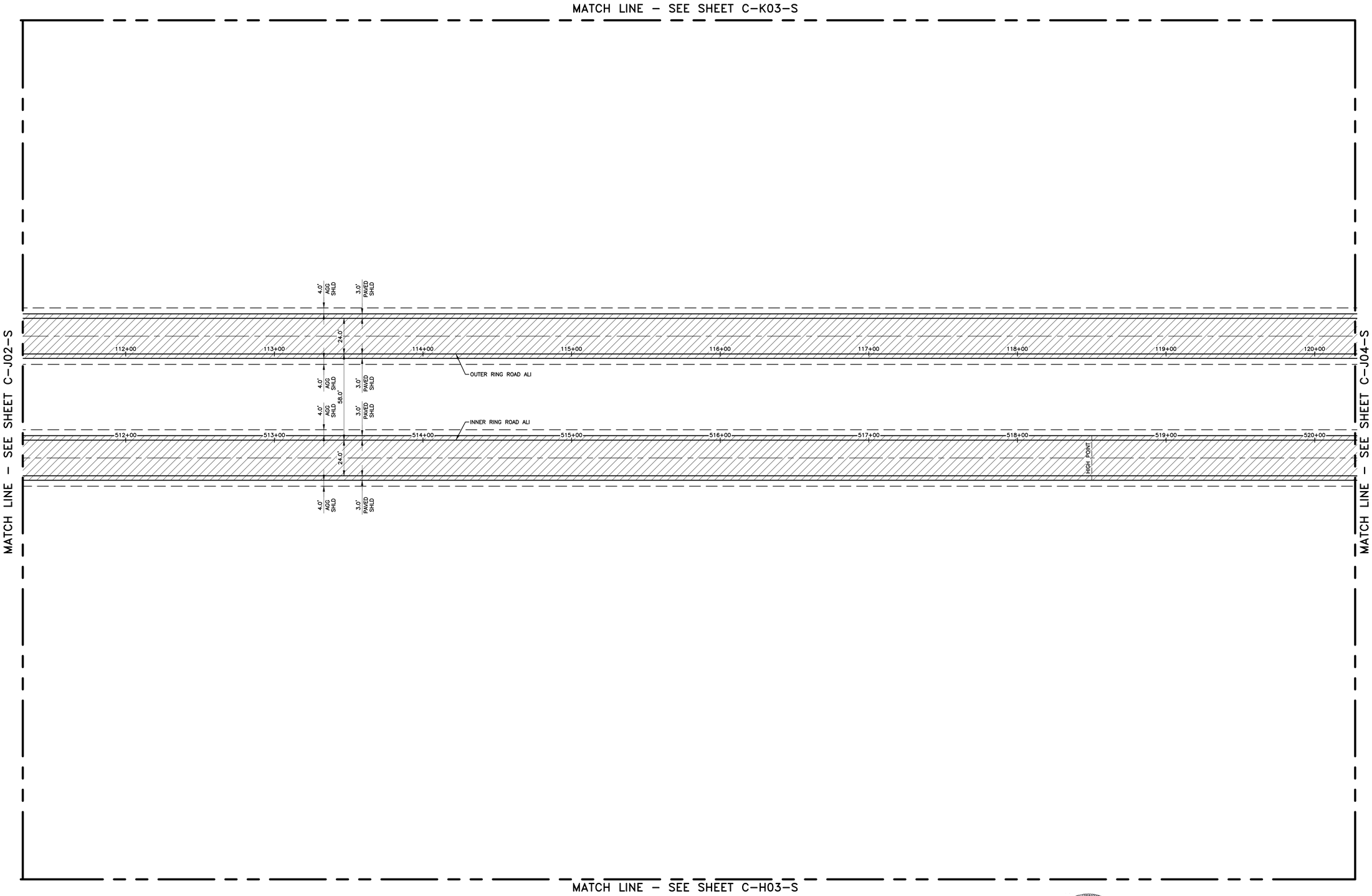


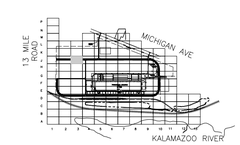
NORTH

PARTIAL J03 SITE PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION



KEY PLAN

SCALE: NO SCALE

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BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL J03
SITE PLAN

SHEET NUMBER

C-J03-S

PLOT DATE: 9/22/2023 9:21:58 AM SAVE DATE: 9/29/2023 2:56:33 PM FIELD, JAKE C:\Users\jfield\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid J\2000000-C-PLTS-J03-S-A22-WADE.dwg

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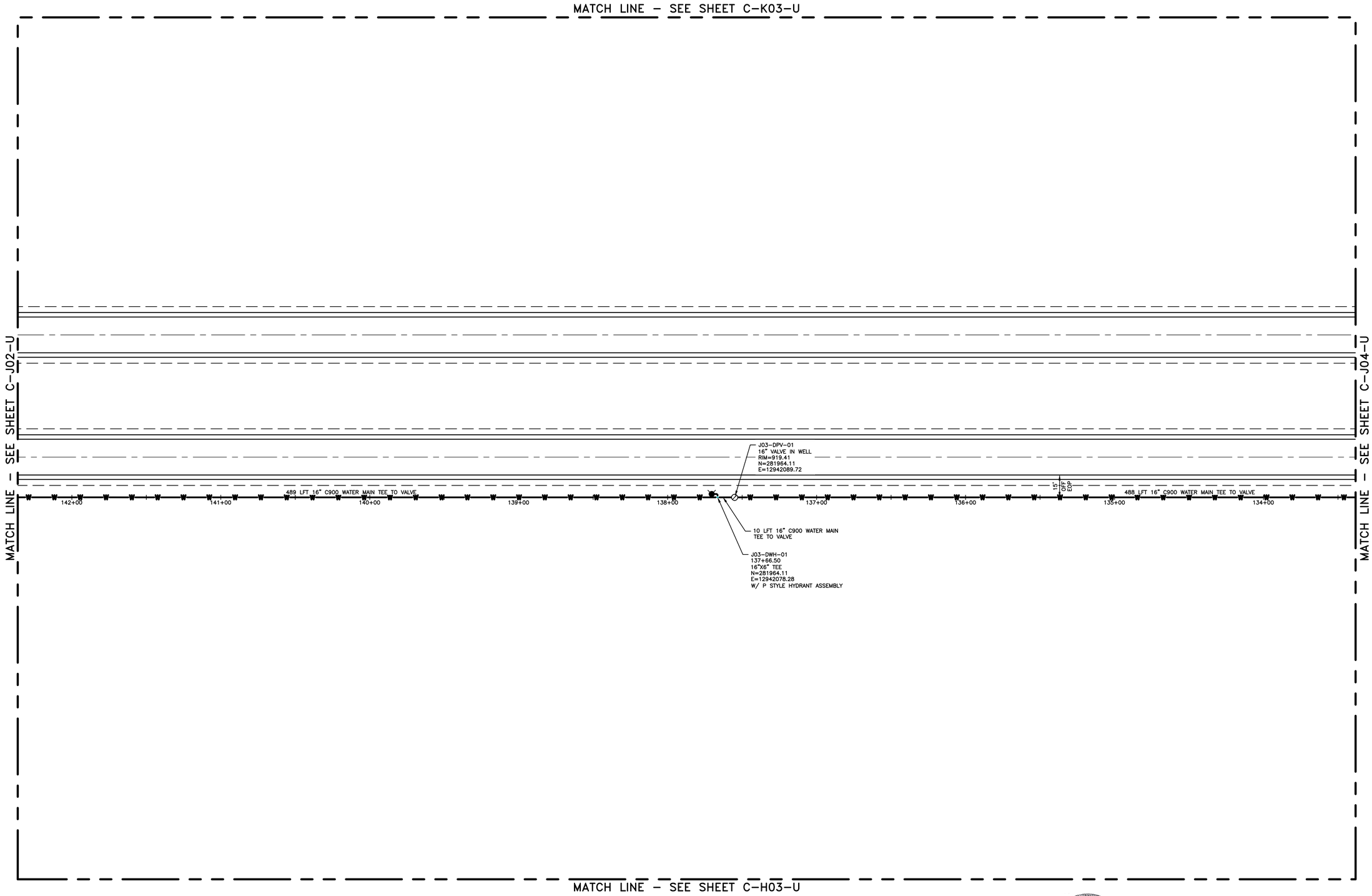

NORTH

PARTIAL J03 UTILITY PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

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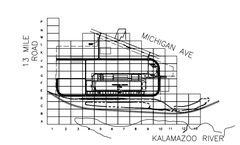

KEY PLAN

SCALE: NO SCALE

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MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL J03
UTILITY PLAN

SHEET NUMBER

C-J03-U

PLOT DATE: 9/22/2023 9:23:33 AM SAVE DATE: 9/22/2023 9:39:35 AM FIELD, JAKE C:\Users\jfield\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid J2000000-C-PLTS-J03-U-A22-WADE.dwg

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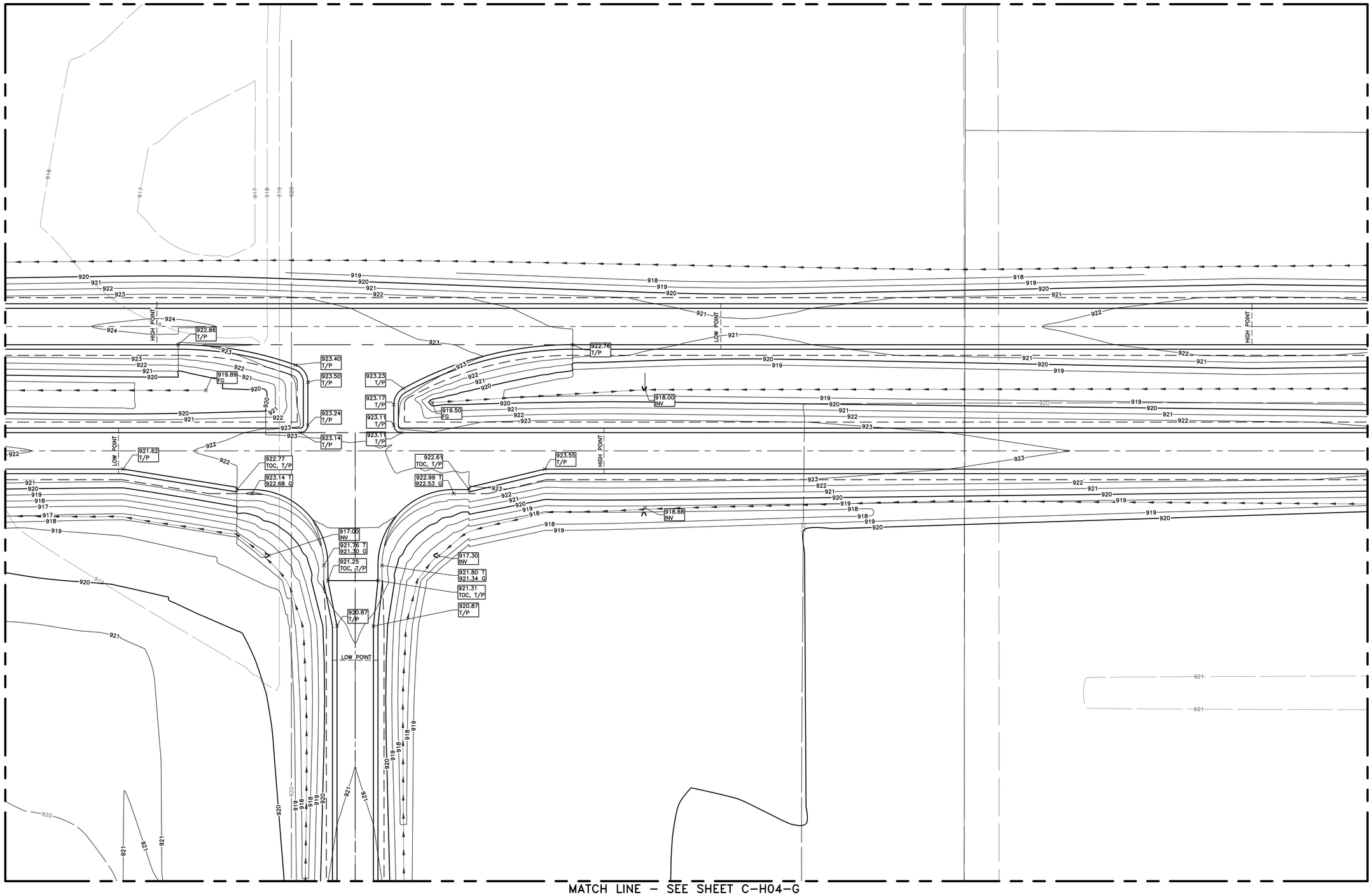
MATCH LINE – SEE SHEET C-J03-G

MATCH LINE – SEE SHEET C-J05-G

MATCH LINE – SEE SHEET C-H04-G



MATCH LINE – SEE SHEET C-H04-G

NORTH

PARTIAL J04 GRADING PLAN

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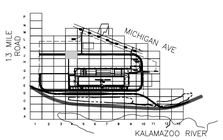

KEY PLAN

SCALE: NO SCALE

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BATTERY PLANT

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL J04
GRADING PLAN

SHEET NUMBER

C-J04-G

PLOT DATE 9/22/2023 9:25:29 AM
SAVE DATE 9/19/2023 2:01:10 PM
FIELD, JAKE
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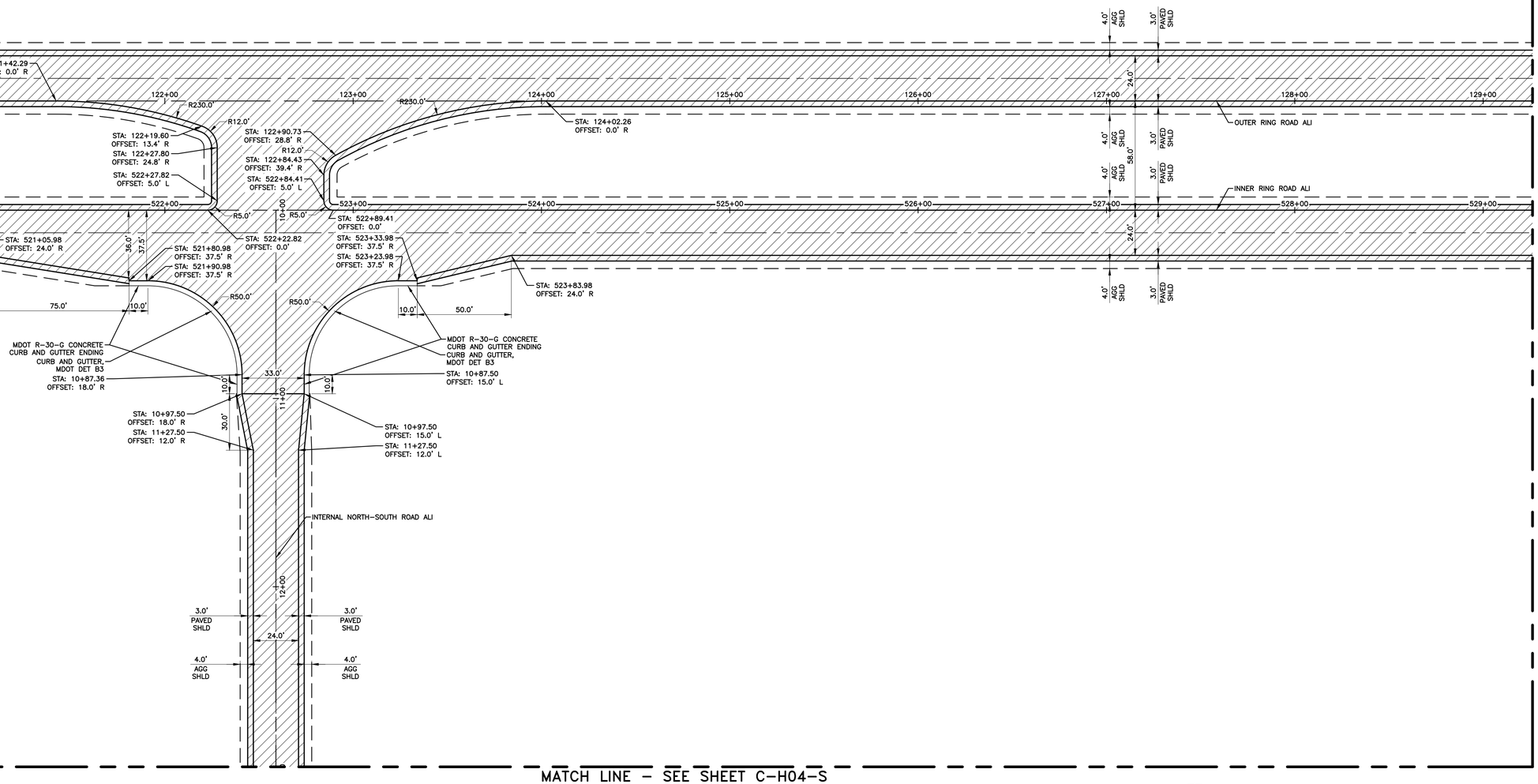
MATCH LINE – SEE SHEET C-J03-S

MATCH LINE – SEE SHEET C-J05-S



MATCH LINE – SEE SHEET C-H04-S

NORTH

PARTIAL J04 SITE PLAN

SCALE: 1"=30"

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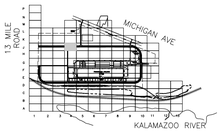

KEY PLAN

SCALE: NO SCALE

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DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL J04
SITE PLAN

SHEET NUMBER

C-J04-S

PLOT DATE: 9/22/2023 9:26:27 AM
SAVE DATE: 9/13/2023 9:47:53 AM
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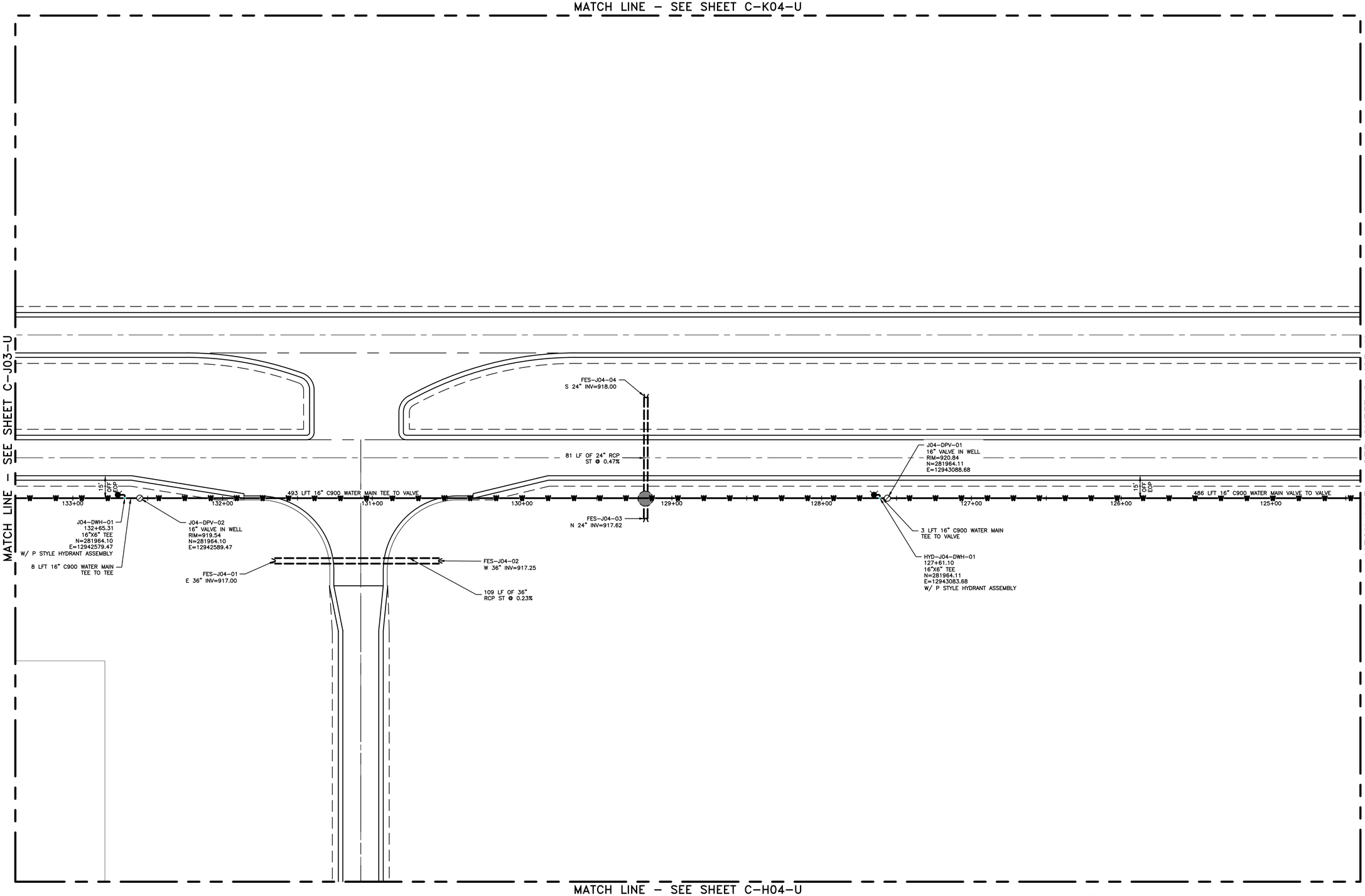
MATCH LINE – SEE SHEET C–J03–U

MATCH LINE – SEE SHEET C–J05–U



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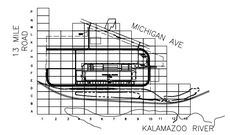

KEY PLAN

SCALE: NO SCALE

FORDLAND

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USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL J04
UTILITY PLAN

SHEET NUMBER

C-J04-U

PLOT DATE: 9/22/2023 9:27:59 AM SAVE DATE/15/2023 4:19:13 PM FIELD, JAKE C:\Users\field\DCACDocs\Wade Trim\FRD2011-05\Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid J2080000-CP-ETS-SHT-CV-E2-WHADE.dwg

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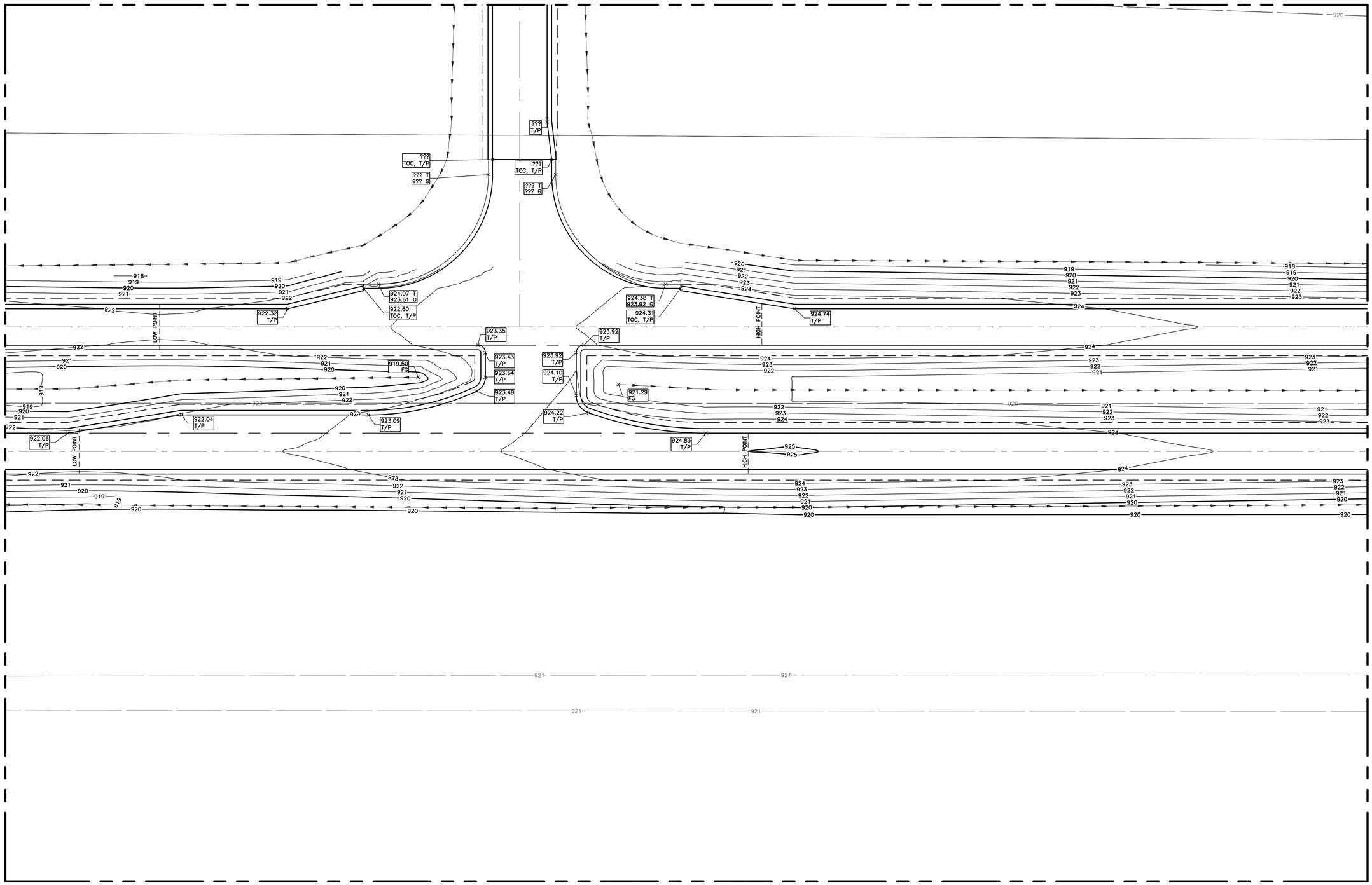

NORTH

PARTIAL J05 GRADING PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
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LICENSED PROFESSIONAL ENGINEER

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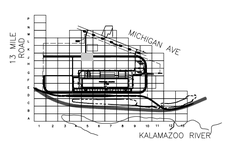

KEY PLAN

SCALE: NO SCALE

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A/E TEAM INFORMATION

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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL J05
GRADING PLAN

SHEET NUMBER

C-J05-G

PLOT DATE: 9/22/2023 9:29:55 AM SAVE DATE: 9/20/2023 9:34:02 AM FIELD, JAKE C:\Users\jfield\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid J\2000000-C-PLTS-J05-G-A22-WADE.dwg

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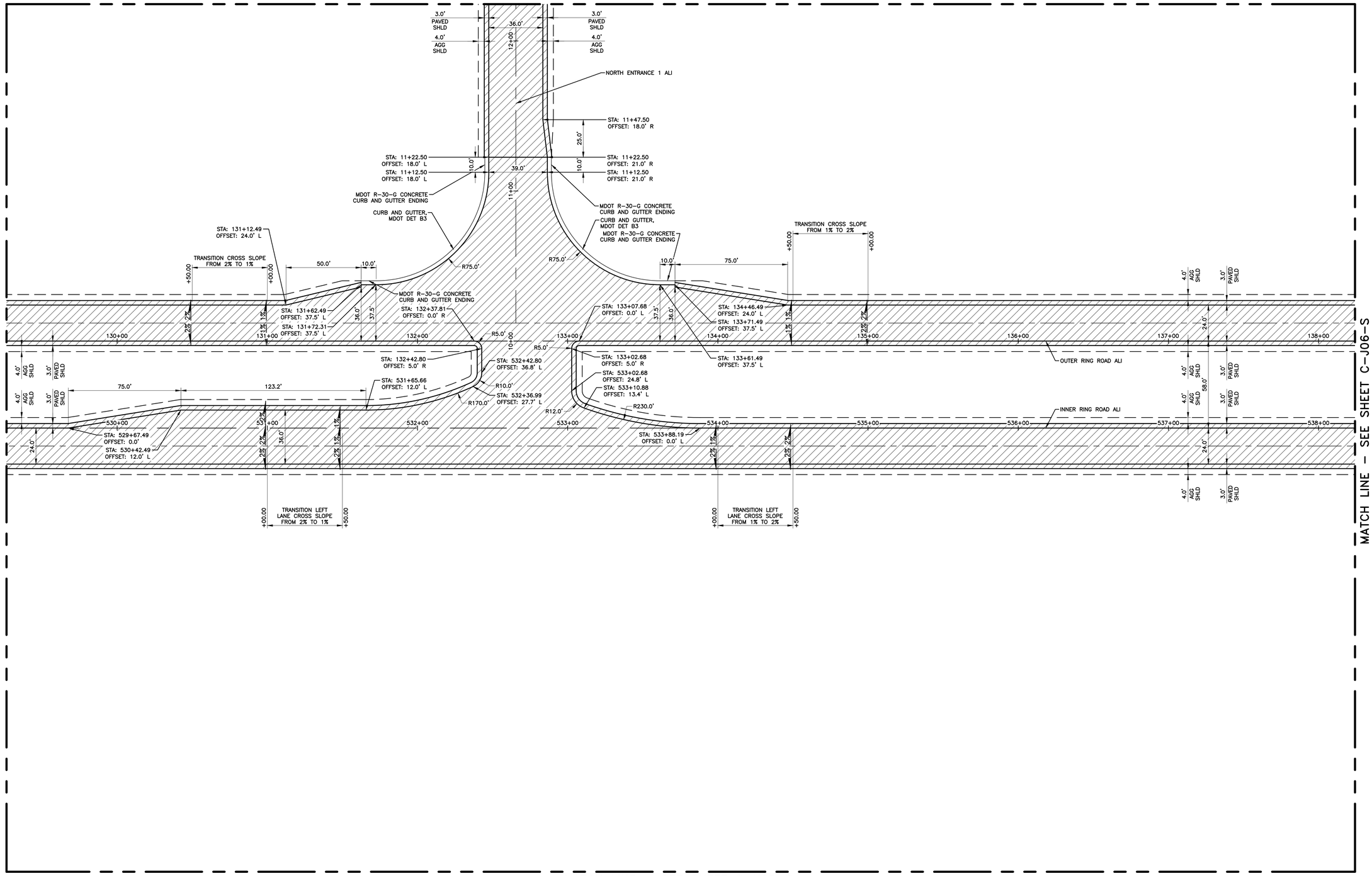
MATCH LINE – SEE SHEET C-J04-S

MATCH LINE – SEE SHEET C-J06-S

MATCH LINE – SEE SHEET C-H05-S



NORTH

PARTIAL J05 SITE PLAN

SCALE: 1"=30"

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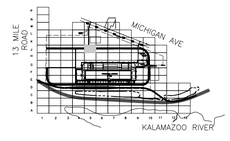

KEY PLAN

SCALE: NO SCALE

FORDLAND

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USA

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BATTERY PARK
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BATTERY PLANT

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A/E TEAM INFORMATION

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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL J05
SITE PLAN

SHEET NUMBER

C-J05-S

PLOT DATE: 9/22/2023 8:30:51 AM SAVE DATE: 9/13/2023 10:00:12 AM FIELD, JAKE

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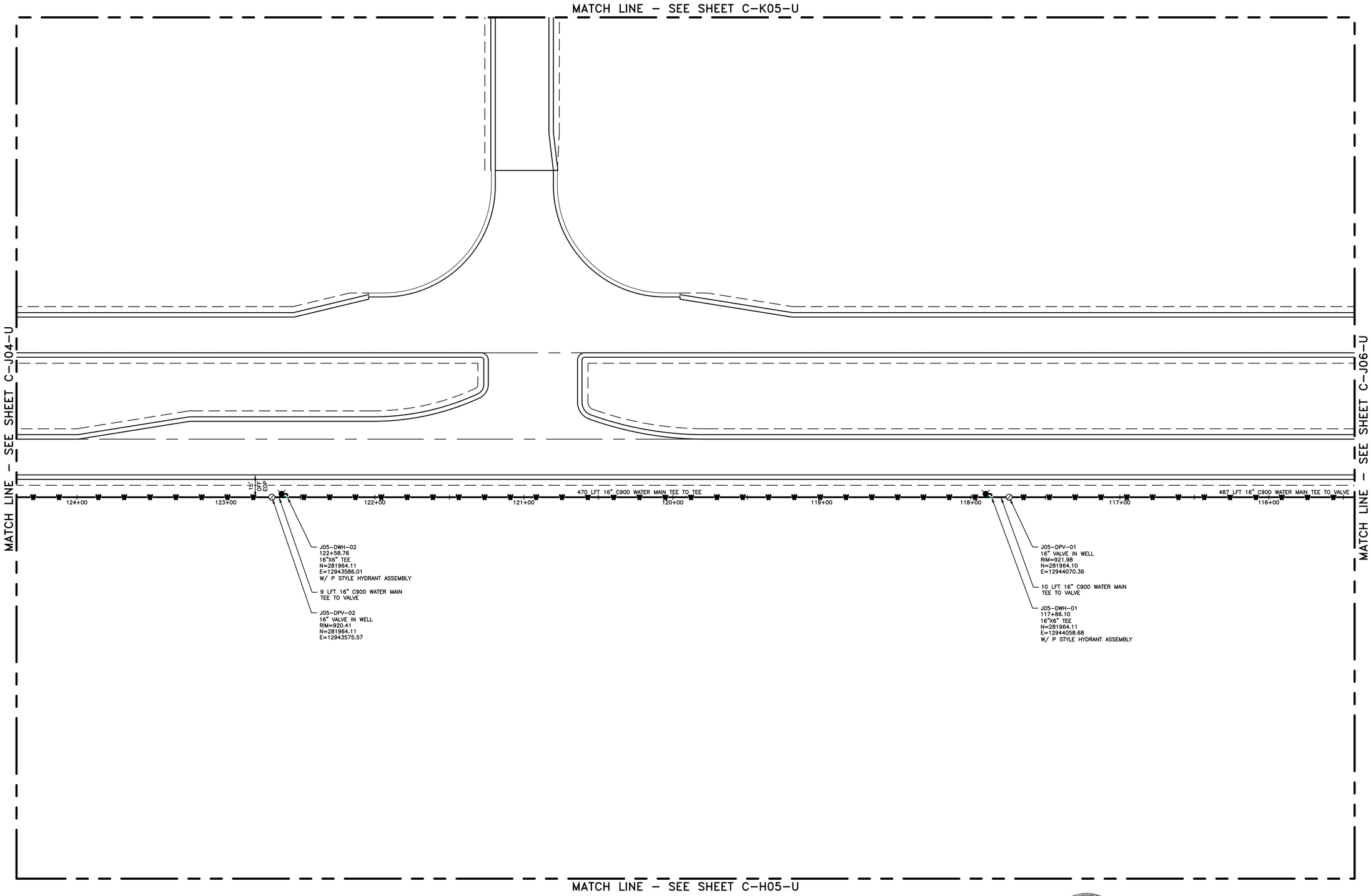
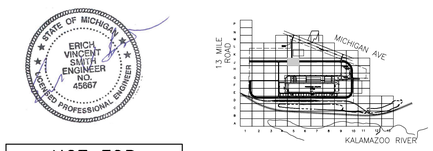


NORTH

PARTIAL J05 UTILITY PLAN

SCALE: 1"=30"



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KEY PLAN

SCALE: NO SCALE

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FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL J05
UTILITY PLAN

SHEET NUMBER

C-J05-U

PLOT DATE: 9/22/2023 9:32:26 AM SAVE DATE: 9/15/2023 3:51:00 PM FIELD, JAKE C:\Users\jfield\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid J2000000-C-PLTS-J05-U-A22-WADE.dwg

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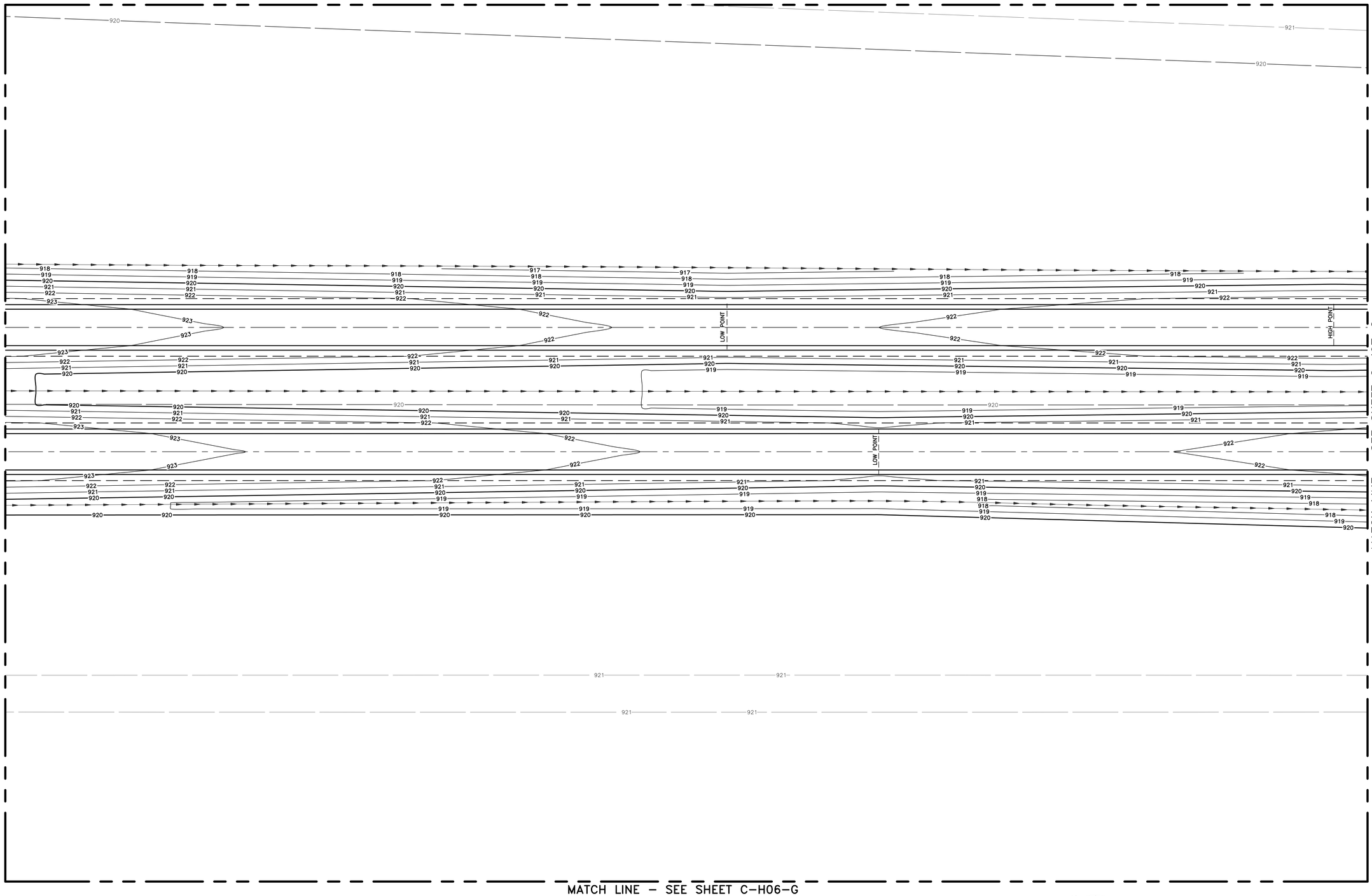


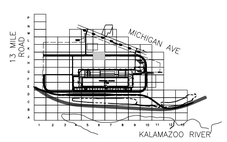
NORTH

PARTIAL J06 GRADING PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION



KEY PLAN

SCALE: NO SCALE

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MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL J06-G
GRADING PLAN

SHEET NUMBER

C-J06-G

PLOT DATE: 9/22/2023 9:34:22 AM SAVE DATE: 9/20/2023 9:38:36 AM FIELD, JAKE C:\Users\jfield\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid J\2000000-C-PLTS-J06-G-A22-WADE.dwg

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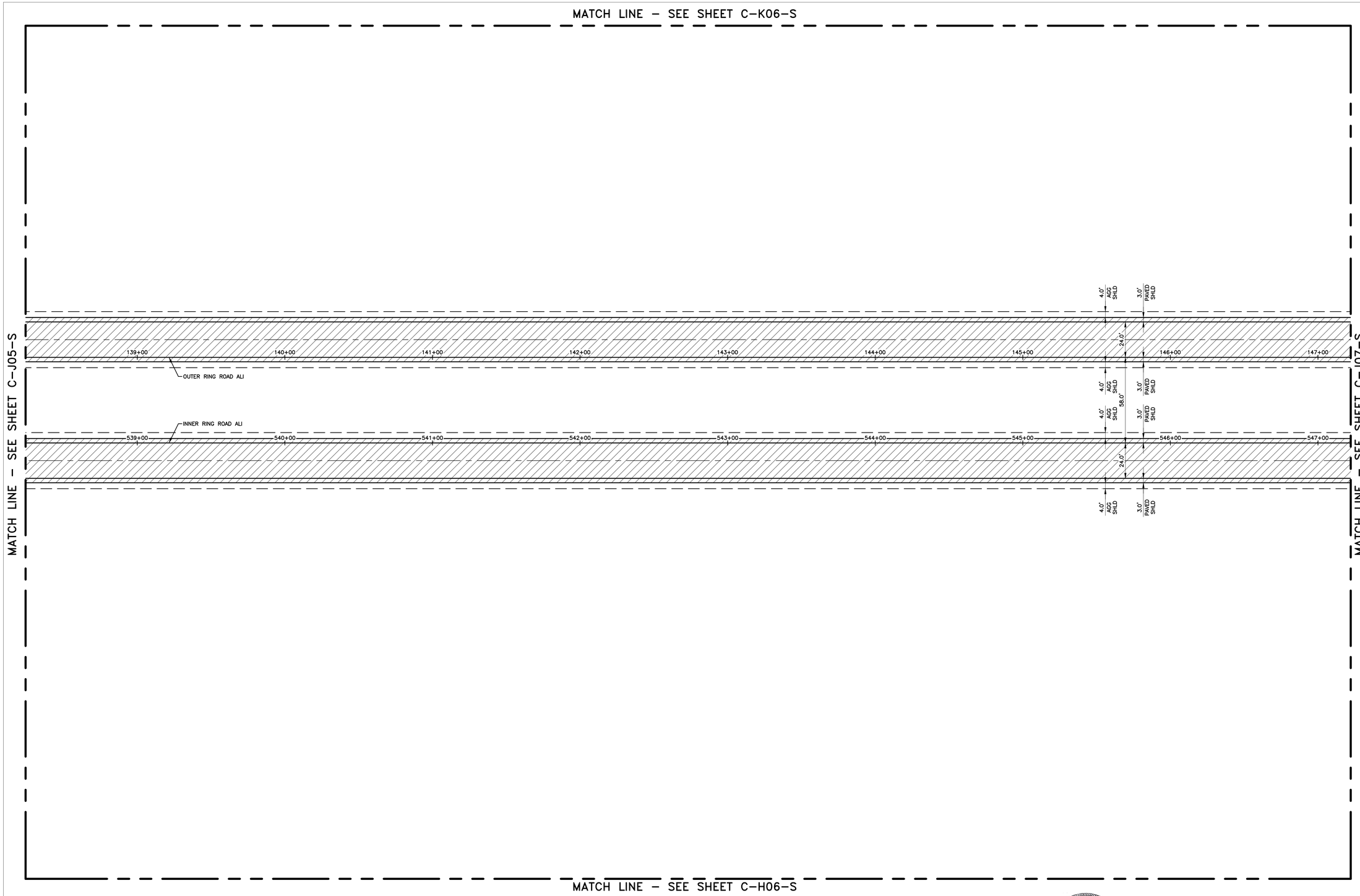

NORTH

PARTIAL J06 SITE PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

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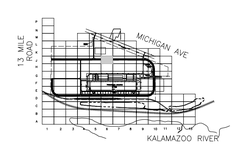

KEY PLAN

SCALE: NO SCALE

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MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL J06
SITE PLAN

SHEET NUMBER

C-J06-S

PLOT DATE: 9/22/2023 9:35:20 AM SAVE DATE: 7/2023 11:23:18 AM FIELD, JAKE

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MATCH LINE – SEE SHEET C–J05–U

MATCH LINE – SEE SHEET C–J07–U

115+00 114+00 113+00 112+00 111+00 110+00 109+00 108+00 107+00

15" CMP CSP

494 LFT 16" C900 WATER MAIN TEE TO VALVE

J06–DPV–02
16" VALVE IN WELL
RIM=920.06
N=281964.11
E=12944570.33

10 LFT 16" C900 WATER MAIN TEE TO VALVE

J06–DWH–02
112+86.10
16"X6" TEE
N=281964.11
E=12944558.68
W/ T STYLE HYDRANT ASSEMBLY

J06–DPV–01
16" VALVE IN WELL
RIM=919.47
N=281964.11
E=12945070.40

10 LFT 16" C900 WATER MAIN TEE TO VALVE

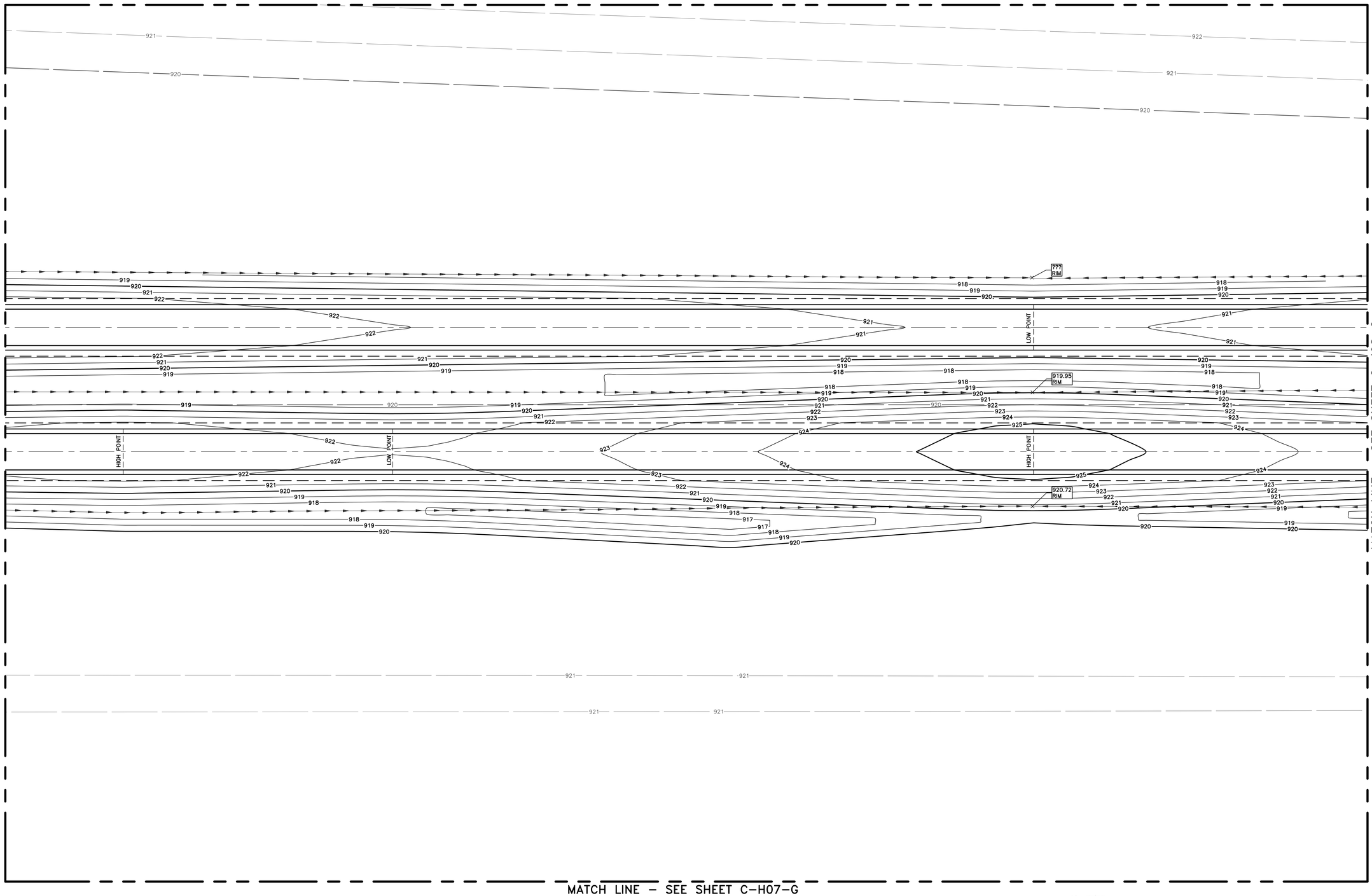
J06–DWH–01
107+86.10
16"X6" TEE
N=281964.11
E=12945058.68
W/ P STYLE HYDRANT ASSEMBLY

UE UE UE

MATCH LINE – SEE SHEET C–H07–G

MATCH LINE – SEE SHEET C–J06–G

MATCH LINE – SEE SHEET C–J08–G



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NORTH

PARTIAL J07 GRADING PLAN

SCALE: 1"=30"

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ENGINEER
NO. 45667
REGISTERED PROFESSIONAL ENGINEER

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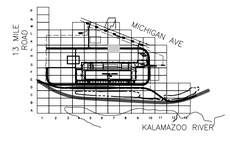

KEY PLAN

SCALE: NO SCALE

FORDLAND

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USA

BLUE OVAL
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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL J07
GRADING PLAN

SHEET NUMBER

C-J07-G

PLOT DATE: 9/22/2023 9:38:58 AM
SAVE DATE: 9/20/2023 9:42:54 AM
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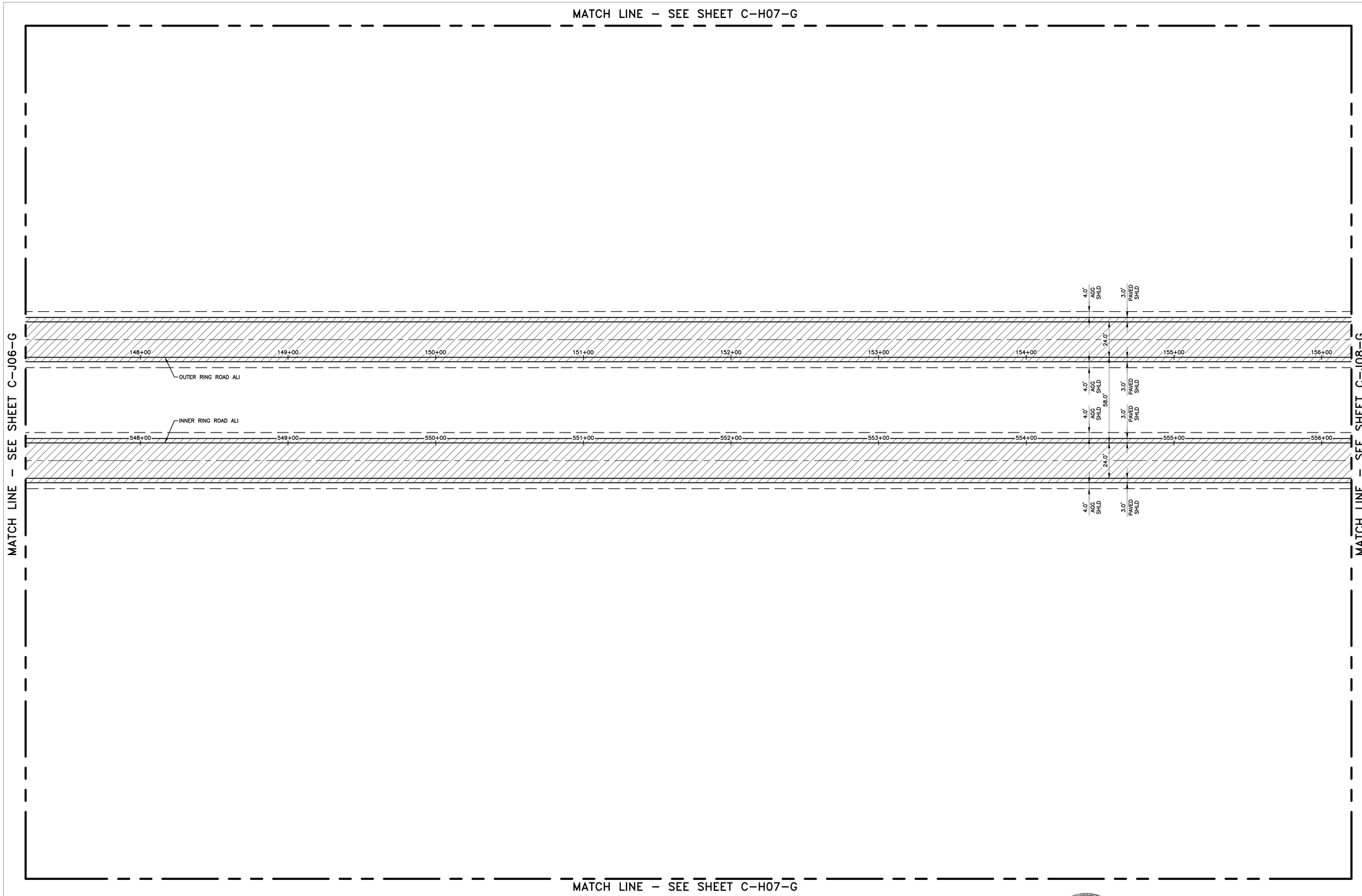

NORTH

PARTIAL J07 GRADING PLAN

SCALE: 1"=30"

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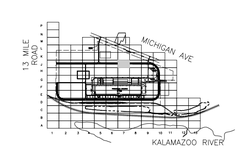

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SCALE: NO SCALE

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL J07
SITE PLAN

SHEET NUMBER

C-J07-S

PLOT DATE: 9/22/2023 9:40:04 AM SAVE DATE: 7/2023 11:23:07 AM FIELD, JAKE

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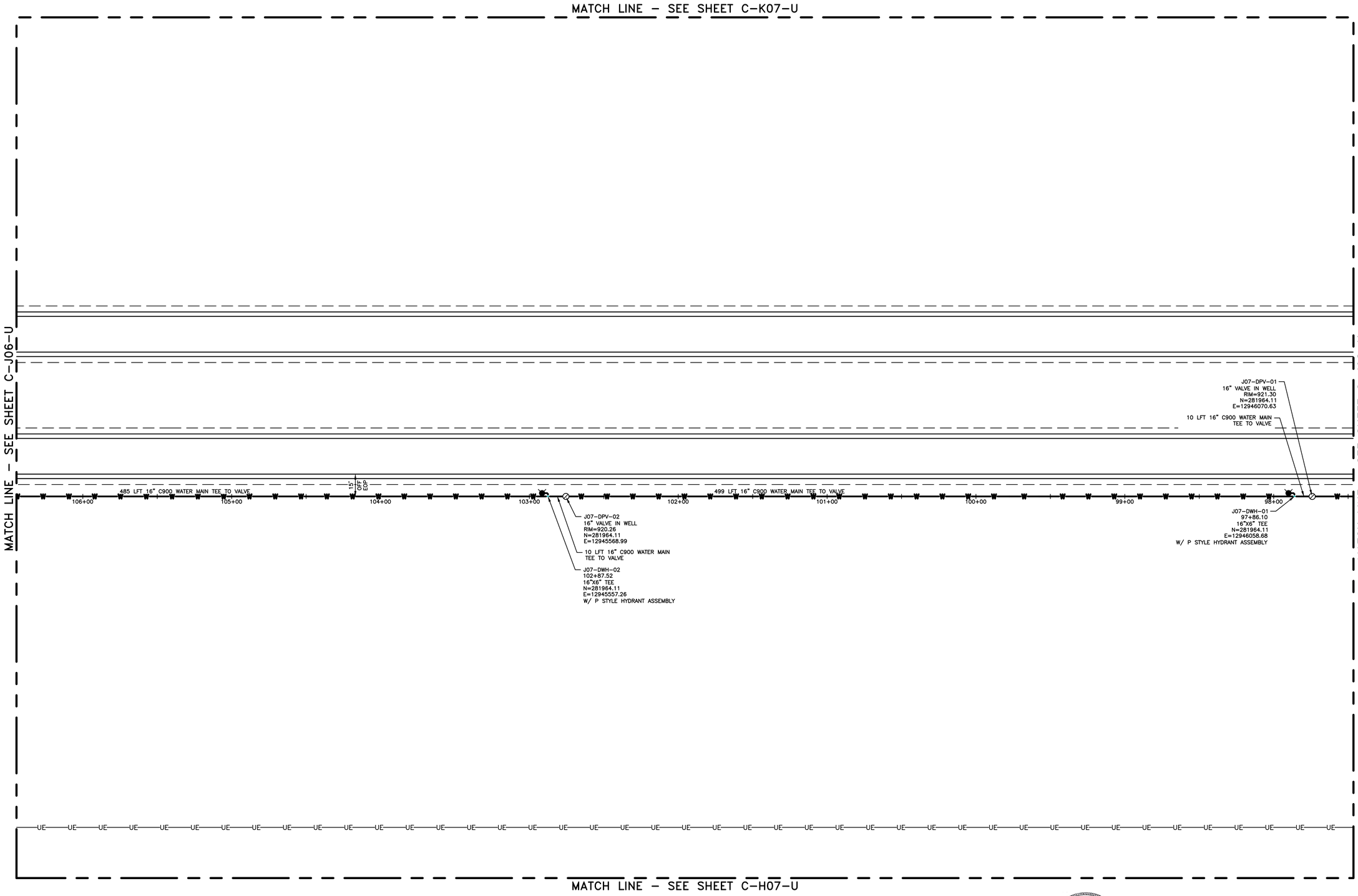

NORTH

PARTIAL J07 UTILITY PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
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ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

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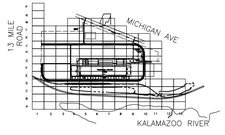

KEY PLAN

SCALE: NO SCALE

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BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL J07
UTILITY PLAN

SHEET NUMBER

C-J07-U

PLOT DATE: 9/22/2023 9:41:13 AM SAVE DATE: 9/15/2023 1:35:52 PM FIELD, JAKE

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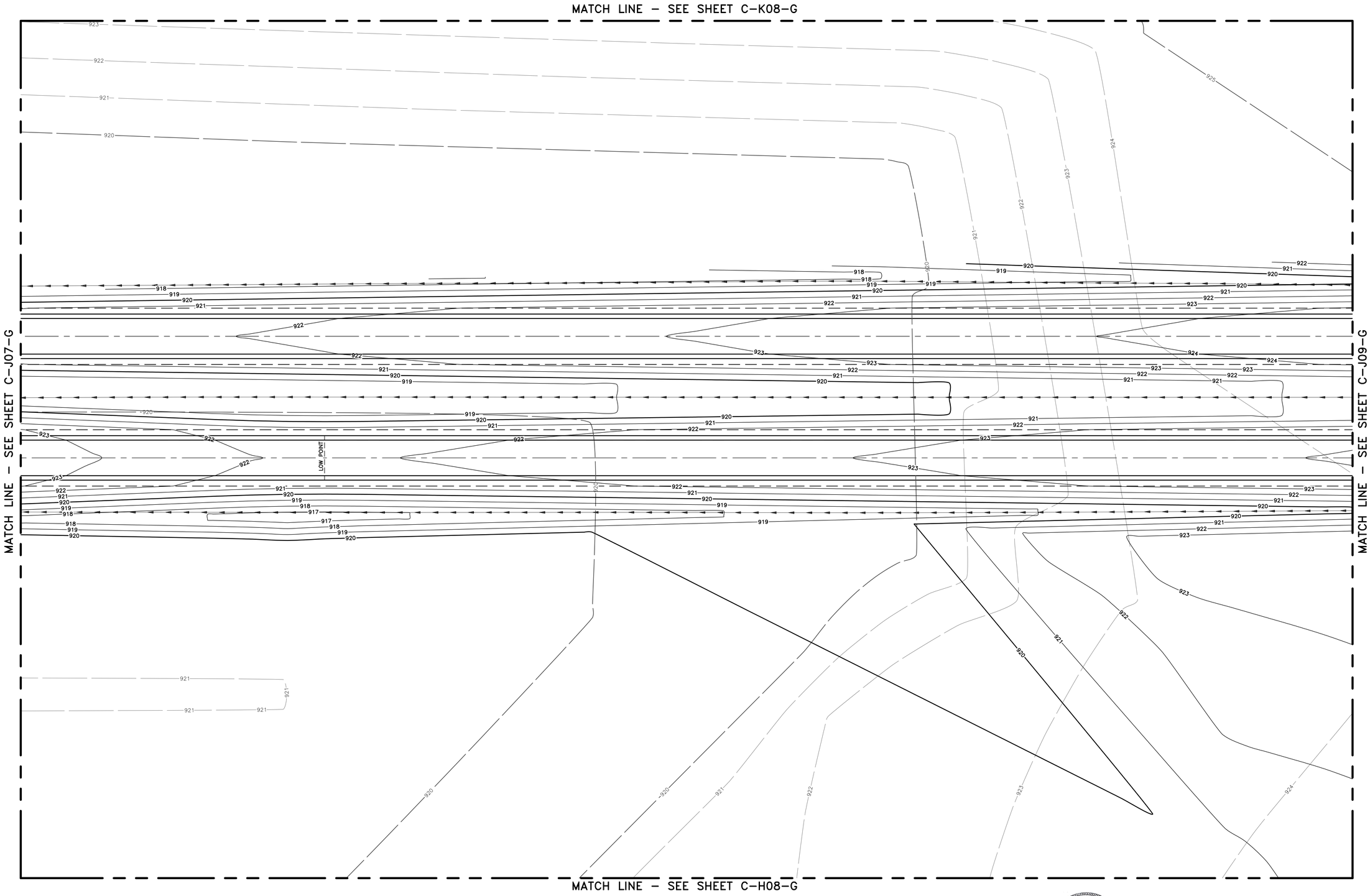

NORTH

PARTIAL J08 GRADING PLAN

SCALE: 1"=30"

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ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

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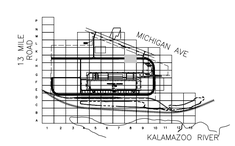

KEY PLAN

SCALE: NO SCALE

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FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL J08
GRADING PLAN

SHEET NUMBER

C-J08-G

PLOT DATE: 9/22/2023 9:43:07 AM SAVE DATE: 9/20/2023 9:44:58 AM FIELD, JAKE C:\Users\jfield\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid J\2000000-C-PLTS-J08-G-A22-WADE.dwg

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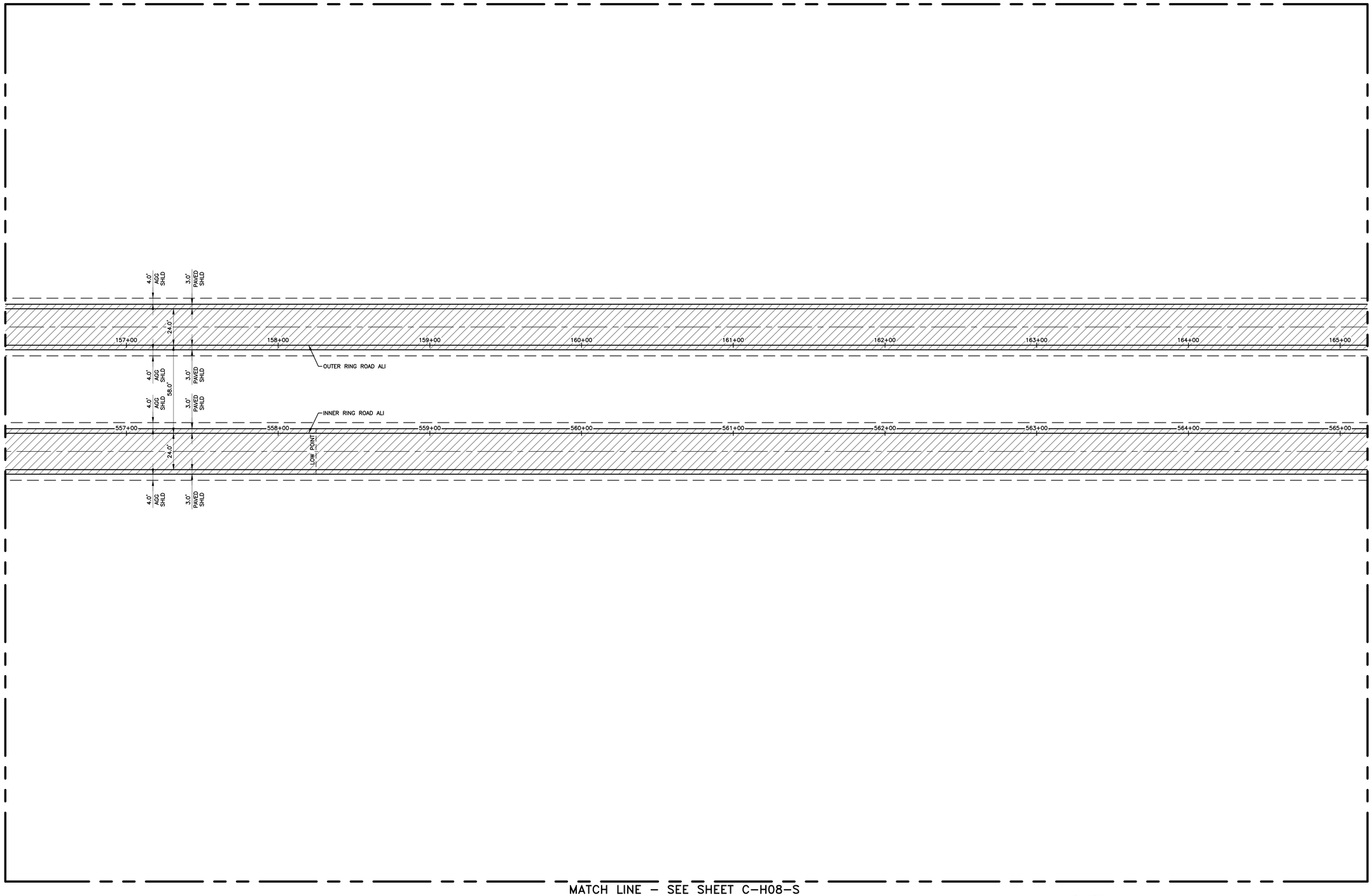


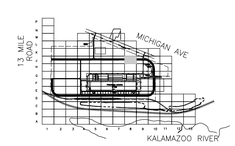
NORTH

PARTIAL J08 SITE PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION



KEY PLAN

SCALE: NO SCALE

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BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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08/31/23	BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT

A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL J08
SITE PLAN

SHEET NUMBER

C-J08-S

PLOT DATE: 9/22/2023 9:44:40 AM SAVE DATE: 9/29/2023 11:21:34 AM FIELD, JAKE C:\Users\jfield\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid J\2000000-C-PLTS-J08-S-A22-WADE.dwg

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MATCH LINE – SEE SHEET C–K08–U

MATCH LINE – SEE SHEET C–J07–U

MATCH LINE – SEE SHEET C–J09–U

J08–DPV–01
16" VALVE IN WELL
RIM=920.19
N=281964.11
E=12946570.43

10 LFT 16" C900 WATER MAIN
TEE TO TEE

492 LFT 16" C900 WATER MAIN TEE TO VALVE

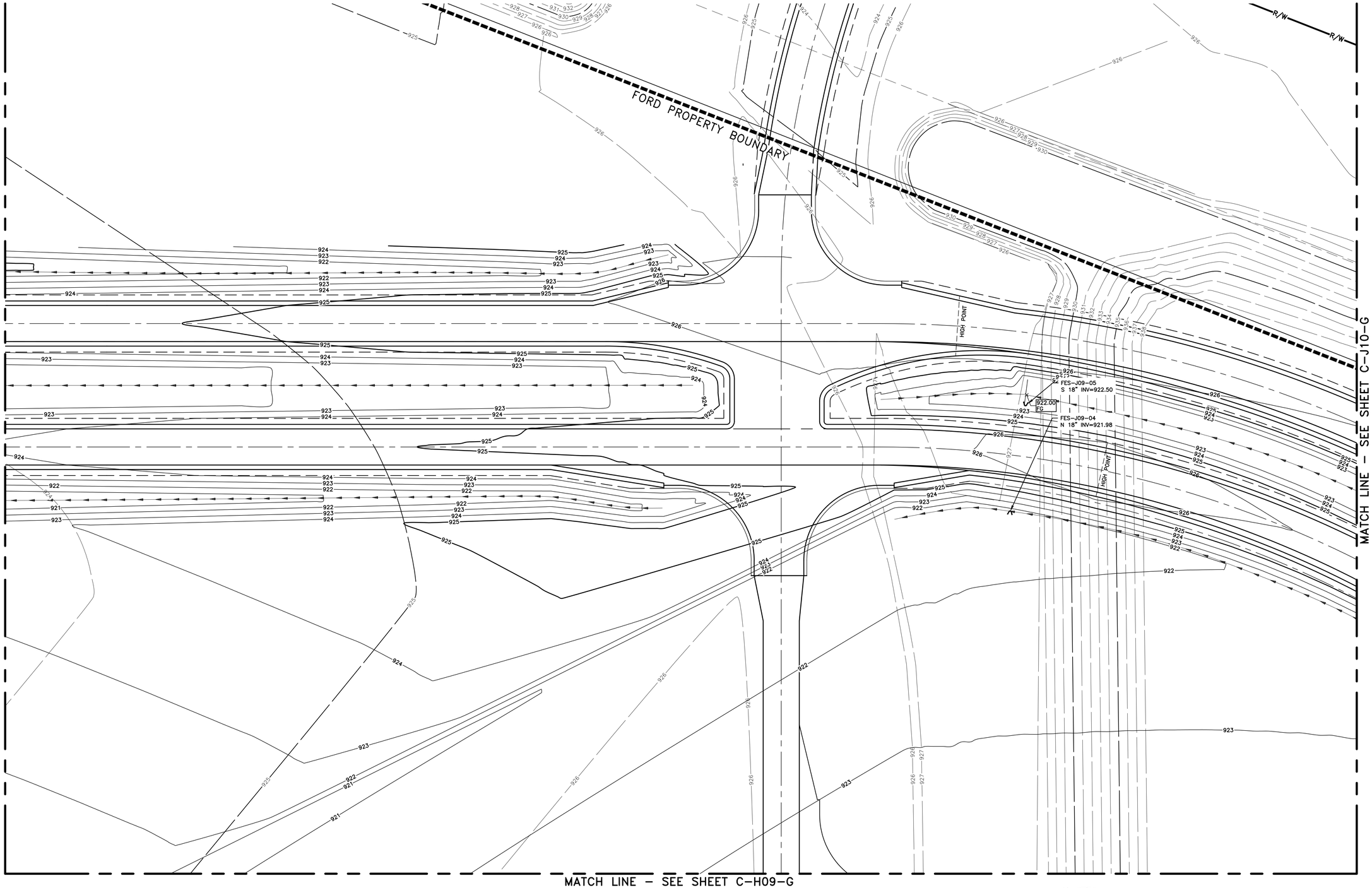
487 LFT 16" C900 WATER MAIN TEE TO VALVE

10' OFFSET

97+00 96+00 95+00 94+00 93+00 92+00 91+00 90+00 89+00

J08–DWH–01
92+86.10
16"X6" TEE
N=281964.11
E=12946558.68
W/ P STYLE HYDRANT ASSEMBLY

UE UE UE



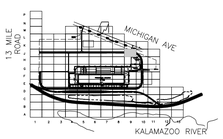
NORTH

PARTIAL J09 GRADING PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION



KEY PLAN

SCALE: NO SCALE

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BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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DATE	ISSUED FOR
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08/31/23	BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT

A/E TEAM INFORMATION

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DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL J09
GRADING PLAN

SHEET NUMBER

C-J09-G

PLOT DATE: 9/22/2023 9:48:04 AM SAVE DATE: 9/20/2023 9:47:42 AM FIELD, JAKE C:\Users\jfield\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid J\2000000-C-PLTS-J09-G-A22-WADE.dwg

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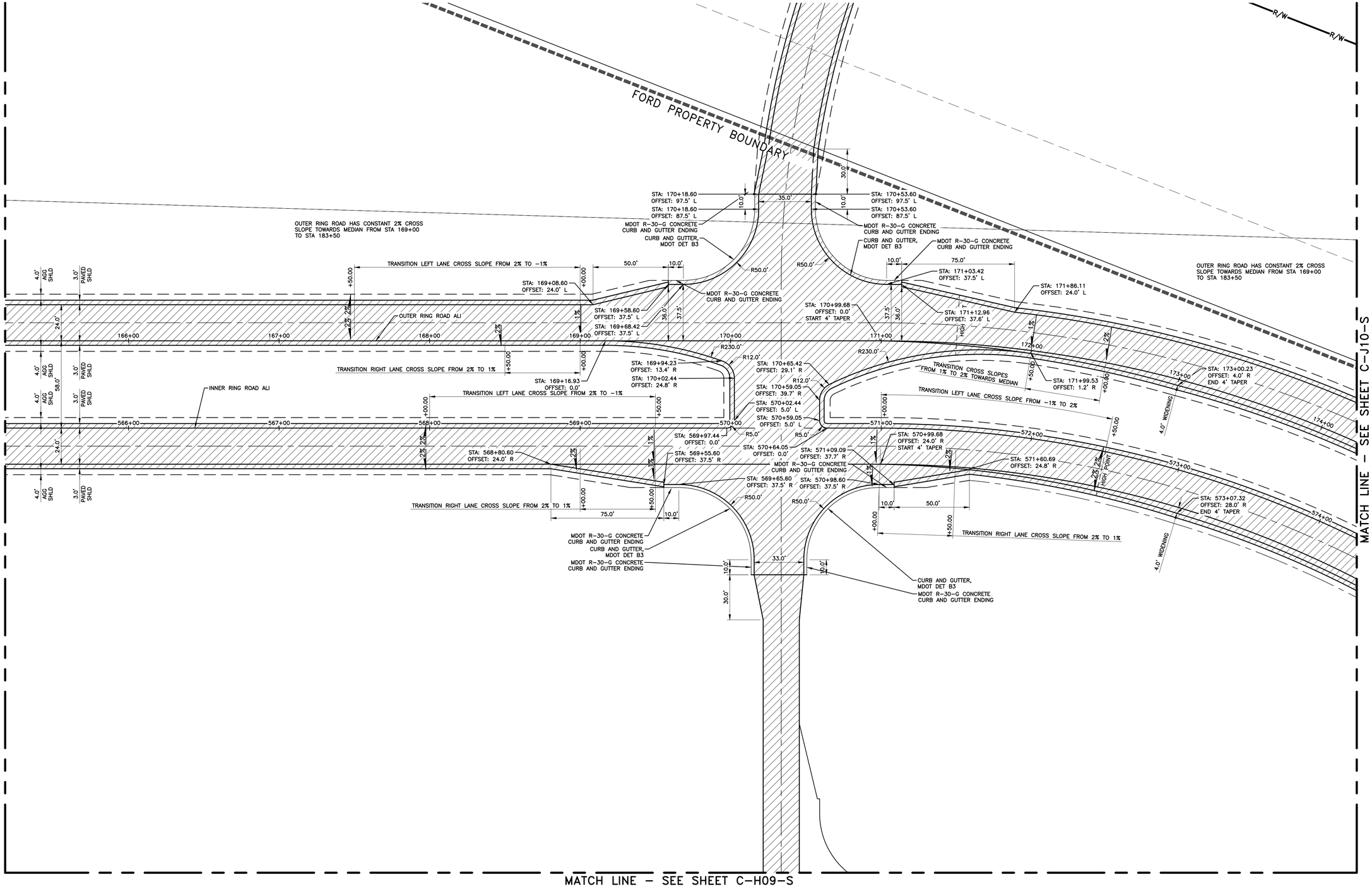
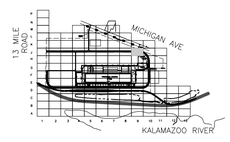


NORTH

PARTIAL J09 SITE PLAN

SCALE: 1"=30"

NOT FOR CONSTRUCTION



KEY PLAN

SCALE: NO SCALE

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BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL J09
SITE PLAN

SHEET NUMBER

C-J09-S

PLOT DATE: 9/22/2023 9:49:38 AM
SAVE DATE: 9/24/2023 2:00:51 PM
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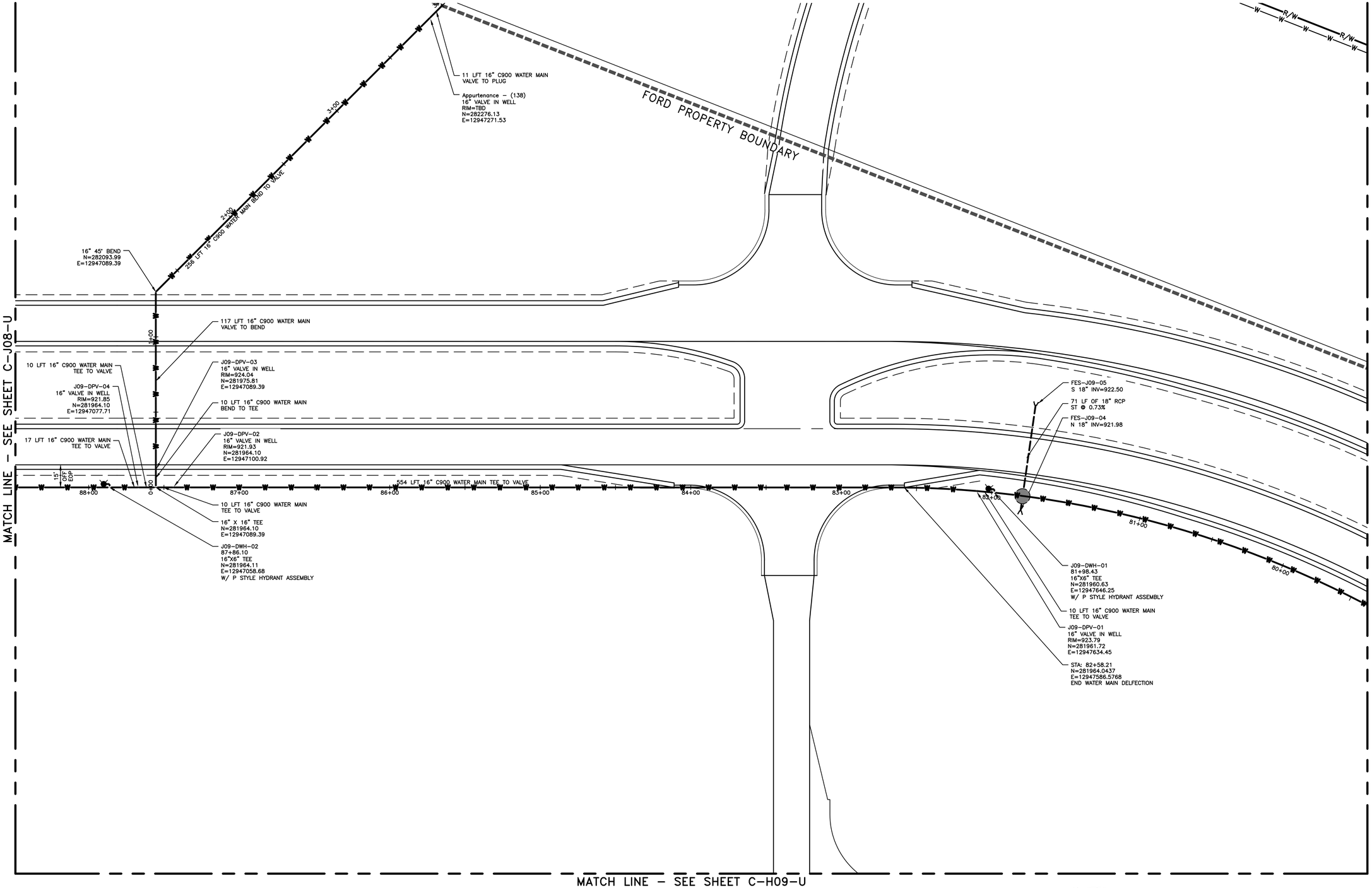

NORTH

PARTIAL J09 UTILITY PLAN

SCALE: 1"=30"

STATE OF MICHIGAN ERICH VINCENT SMITH ENGINEER NO. 45667 LICENSED PROFESSIONAL ENGINEER

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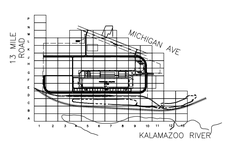

KEY PLAN

SCALE: NO SCALE

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A/E TEAM INFORMATION

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DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL J09 UTILITY PLAN

SHEET NUMBER

C-J09-U

PLOT DATE: 9/22/2023 9:51:11 AM SAVE DATE: 9/15/2023 1:08:44 PM FIELD, JAKE

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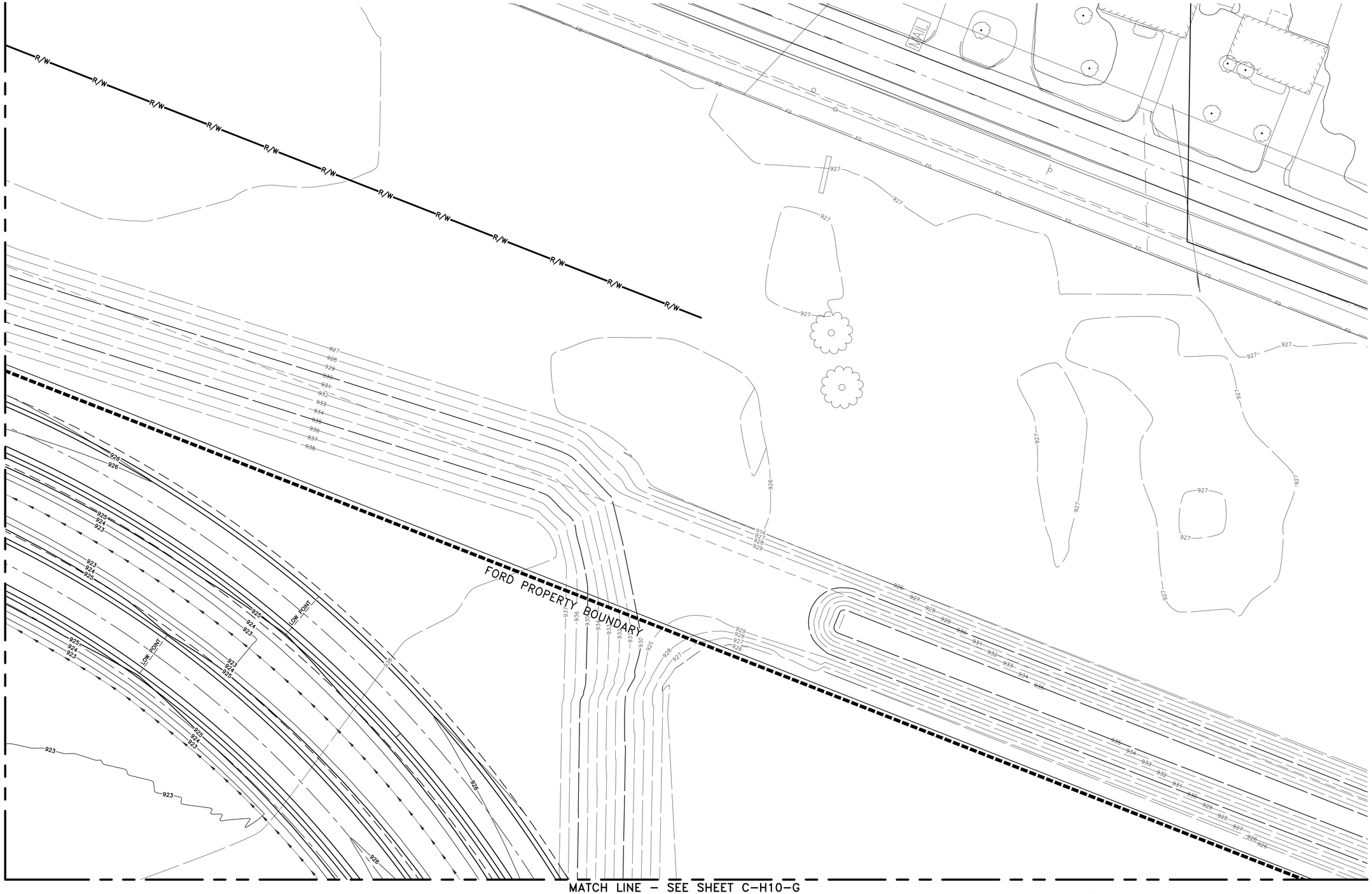

NORTH

PARTIAL J10 GRADING PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
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ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

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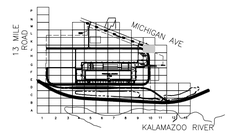

KEY PLAN

SCALE: NO SCALE

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09/22/23	BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT
08/31/23	BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT

A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL J10
GRADING PLAN

SHEET NUMBER

C-J10-G

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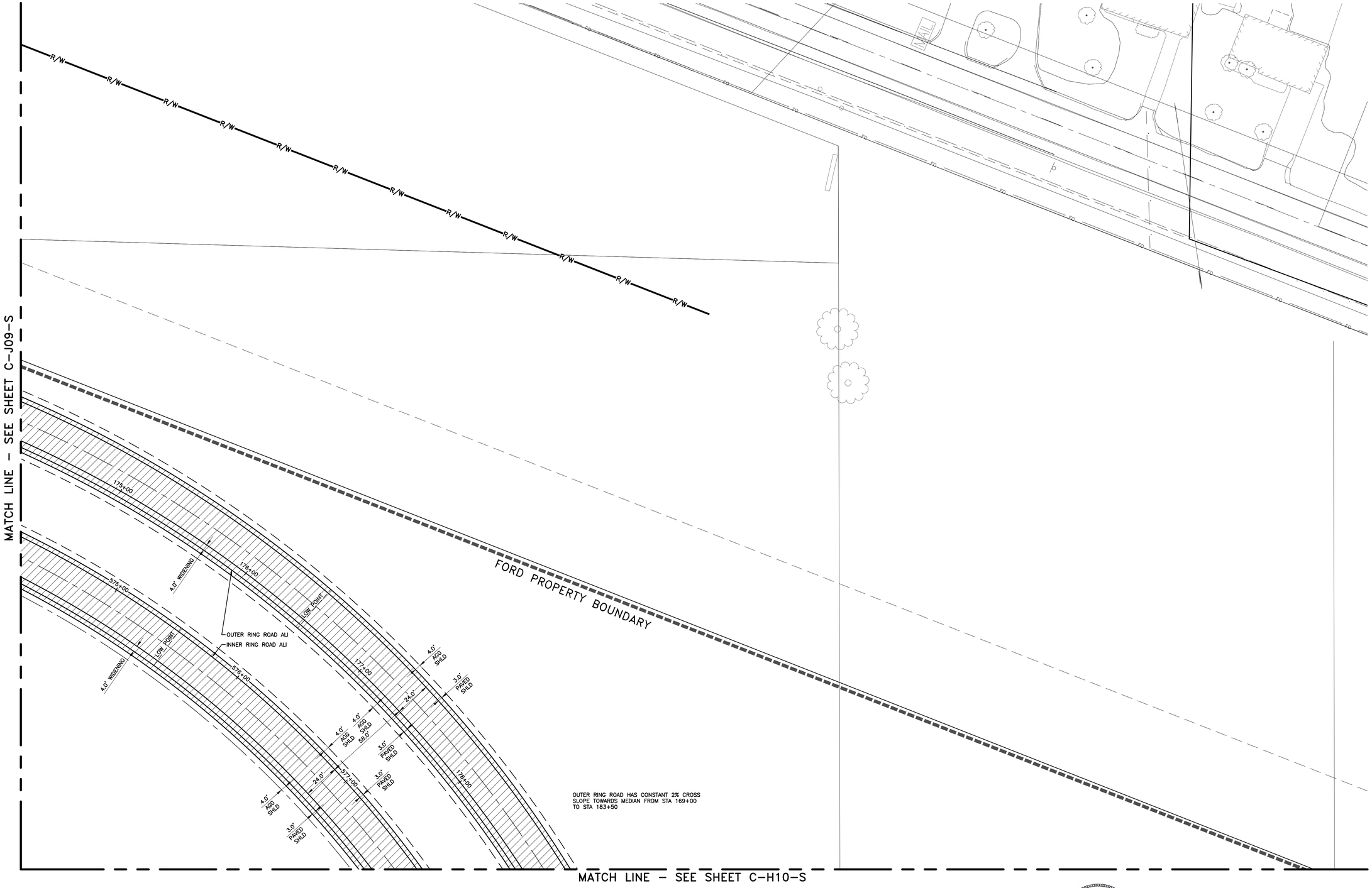

NORTH

PARTIAL J10 SITE PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
REGISTERED PROFESSIONAL ENGINEER

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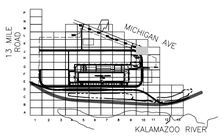

KEY PLAN

SCALE: NO SCALE

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL J10
SITE PLAN

SHEET NUMBER

C-J10-S

PLOT DATE: 9/22/2023 9:54:36 AM SAVE DATE: 9/13/2023 1:01:45 PM FIELD: JAKE C:\Users\field\DCACDbase\Wade Trim\FIld2021-GSF Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid J2000005-C-PLTS-1-J10-S-PA2-WADE.dwg

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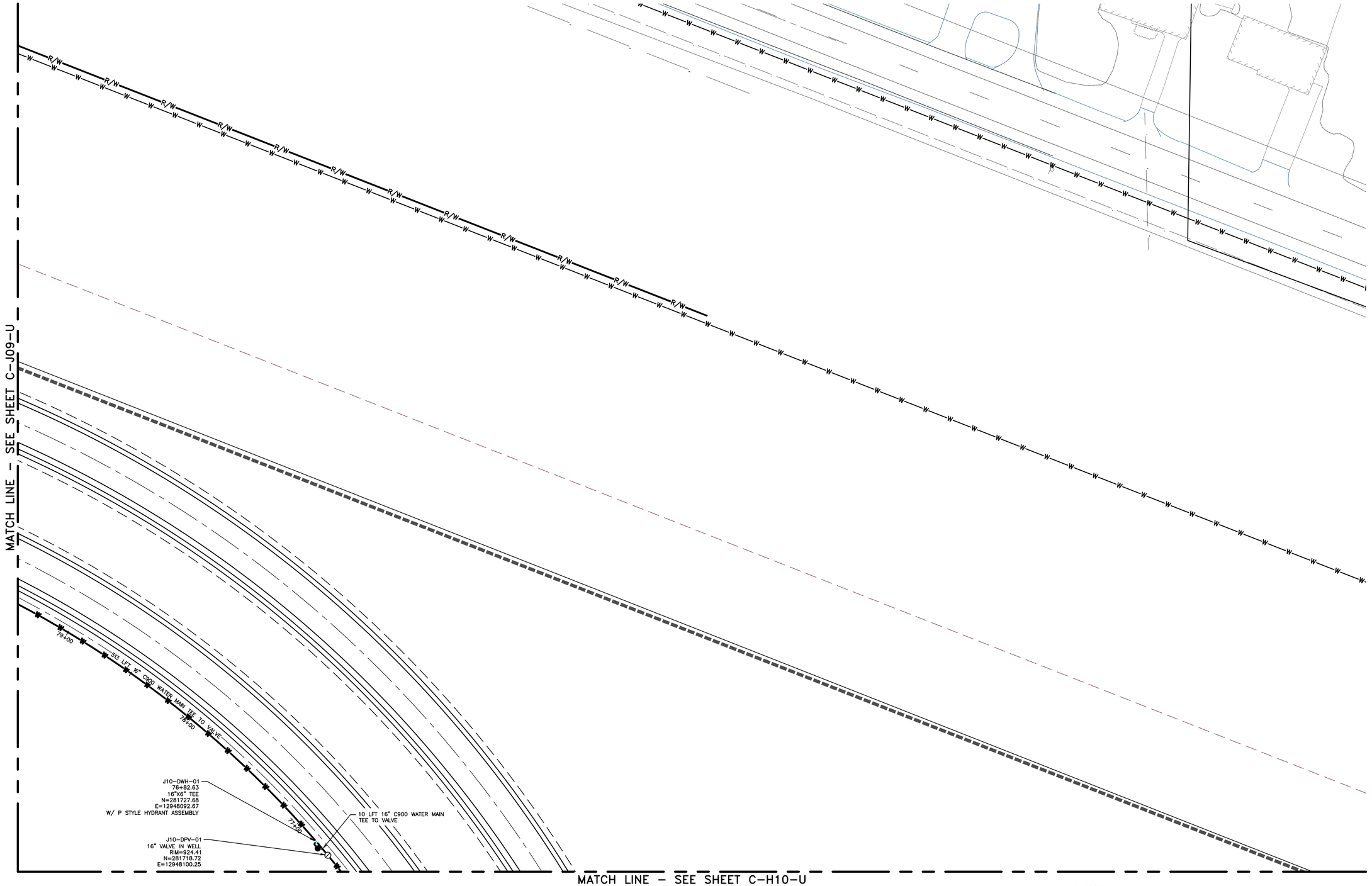

NORTH

PARTIAL J10 UTILITY PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
REGISTERED PROFESSIONAL ENGINEER

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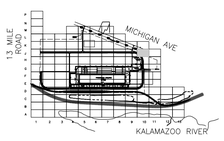

KEY PLAN

SCALE: NO SCALE

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08/31/23	•	BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT

A/E TEAM INFORMATION

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DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL J10
UTILITY PLAN

SHEET NUMBER

C-J10-U

PLOT DATE: 9/22/2023 9:55:52 AM SAVE DATE: 9/21/2023 3:36:14 PM FIELD, JAKE

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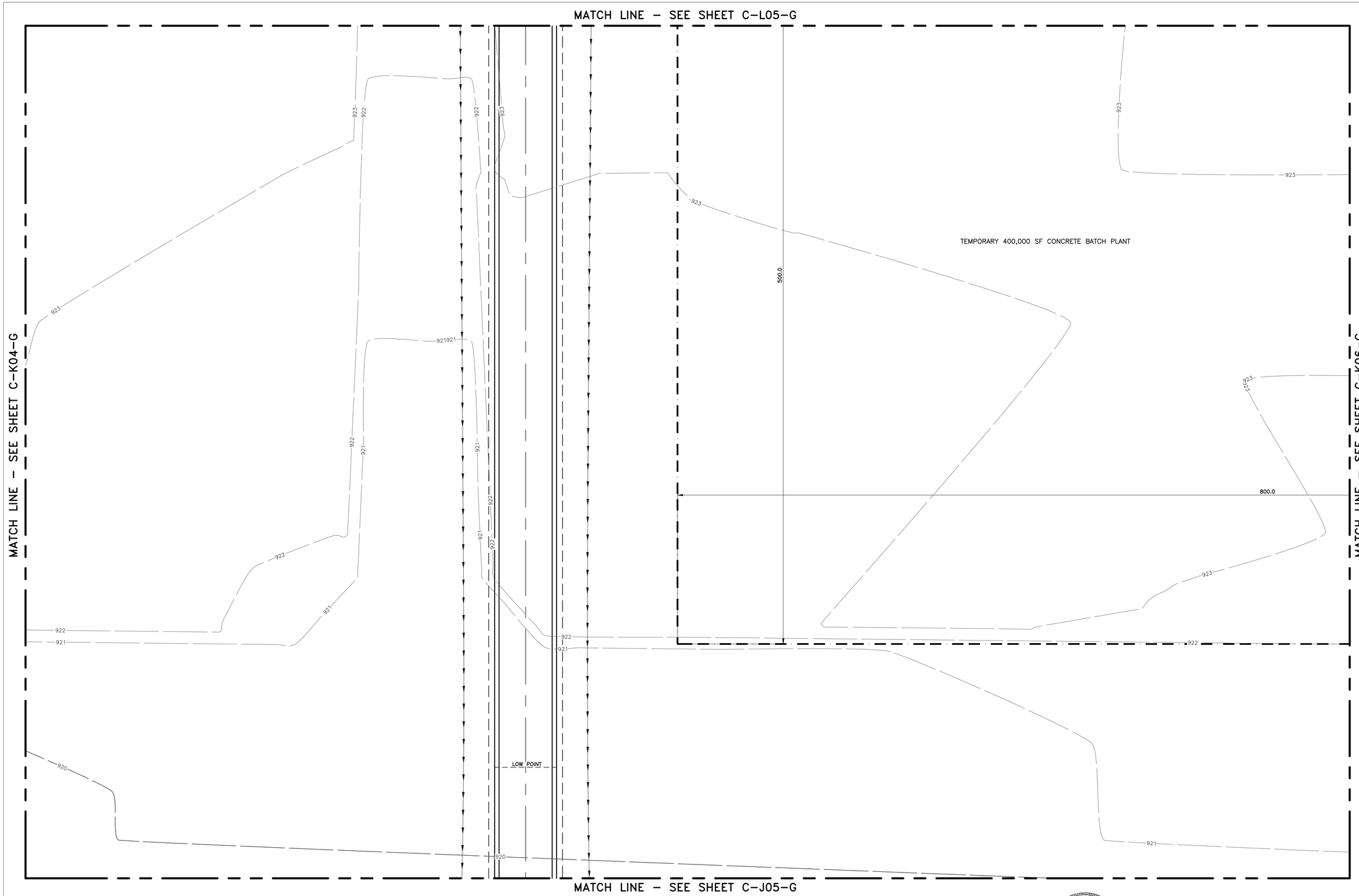

NORTH

PARTIAL K05 GRADING PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
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ENGINEER
NO. 45667
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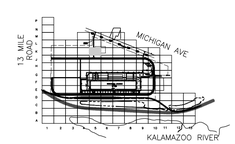

KEY PLAN

SCALE: NO SCALE

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MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL K05
GRADING PLAN

SHEET NUMBER

C-K05-G

PLOT DATE: 9/22/2023 10:10:25 AM SAVE DATE: 9/20/2023 11:25:40 AM FIELD, JAKE

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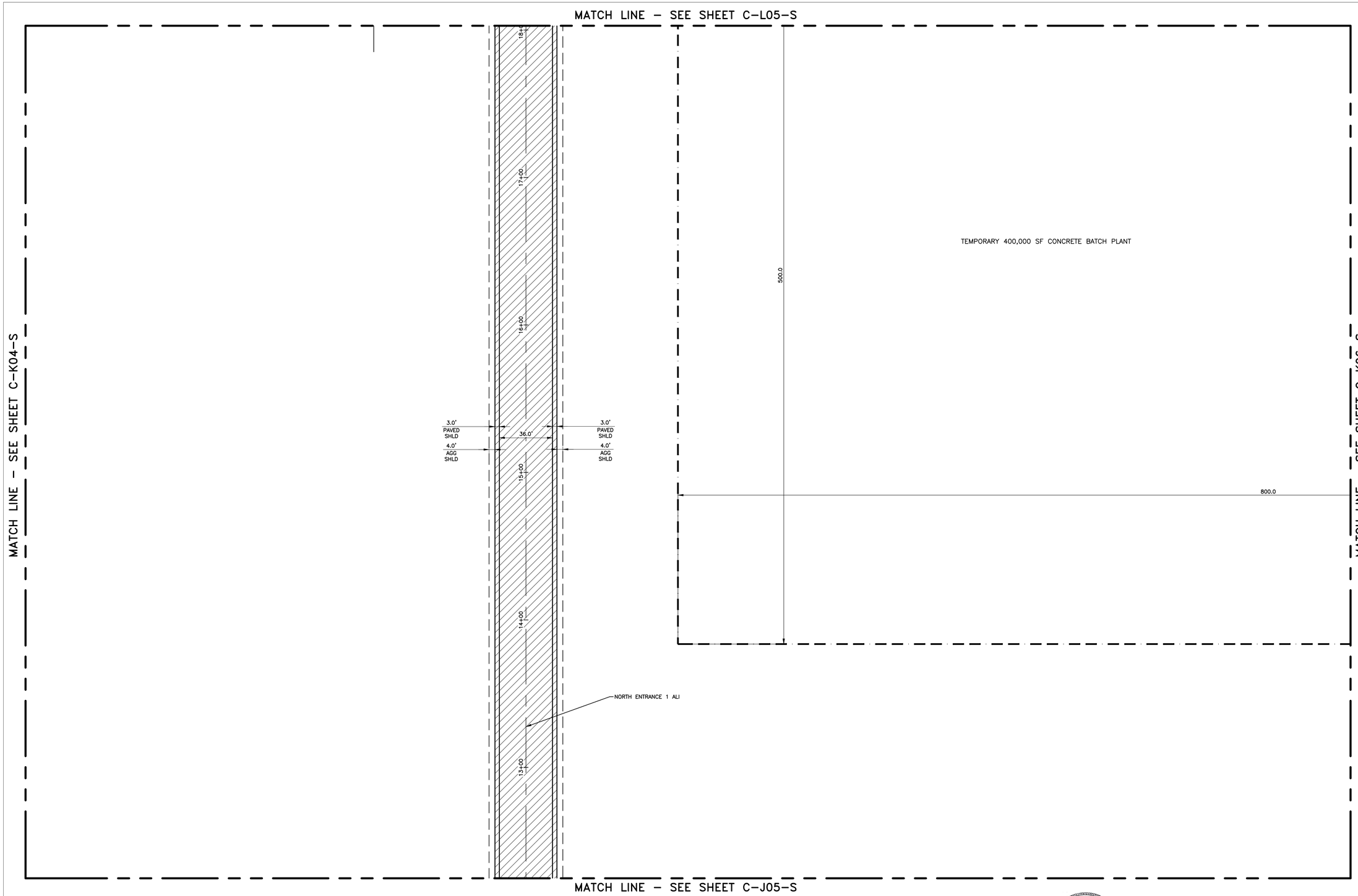

NORTH

PARTIAL K05 SITE PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
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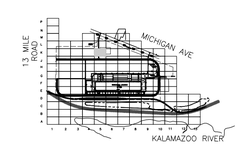

KEY PLAN

SCALE: NO SCALE

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FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL K05
SITE PLAN

SHEET NUMBER

C-K05-S

PLOT DATE: 9/22/2023 10:11:42 AM SAVE DATE: 9/22/2023 1:20:25 PM FIELD, JAKE

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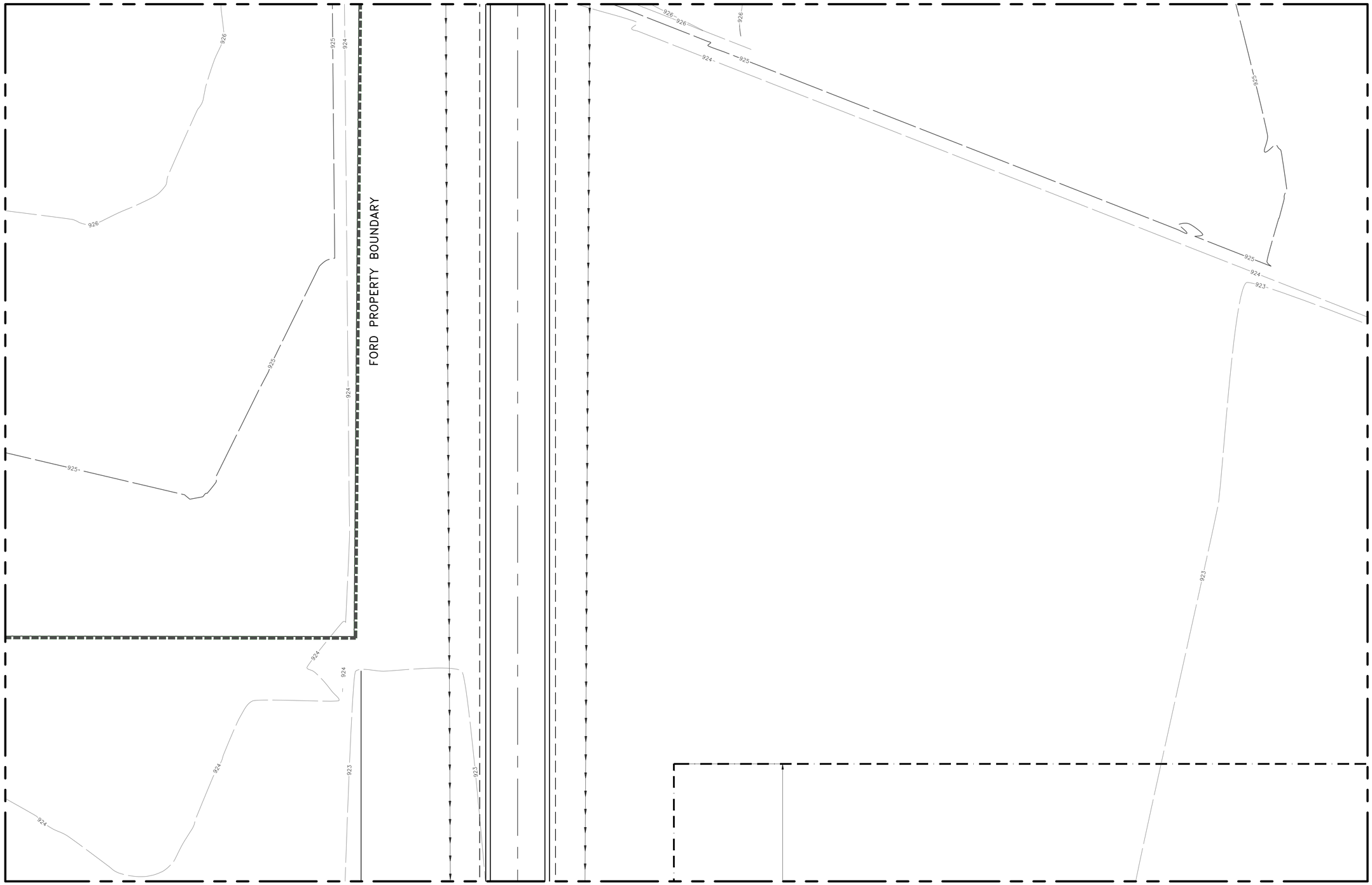
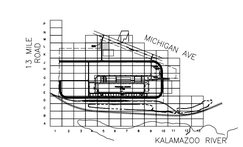


NORTH

PARTIAL J05 GRADING PLAN

SCALE: 1"=30"

NOT FOR CONSTRUCTION



KEY PLAN

SCALE: NO SCALE

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FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL L05
GRADING PLAN

SHEET NUMBER

C-L05-G

PLOT DATE: 9/22/2023 9:57:45 AM SAVE DATE: 9/20/2023 12:10:53 PM FIELD, JAKE C:\Users\jfield\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\Grid L\2000000-C-PLTS-L05-G-A22-WADE.dwg

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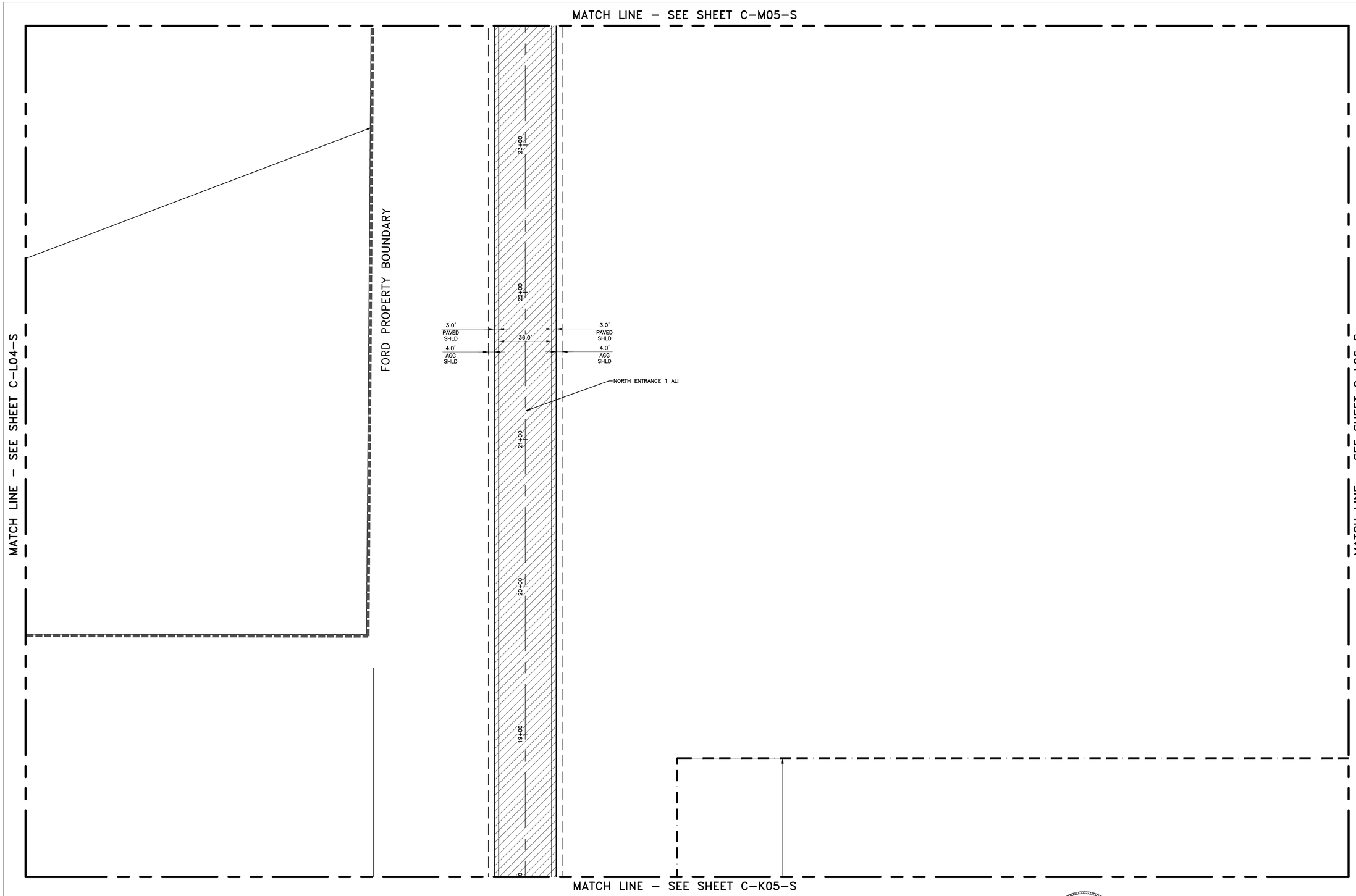
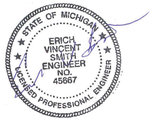


NORTH

PARTIAL L05 SITE PLAN

SCALE: 1"=30"



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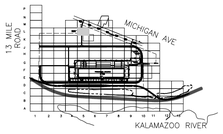

KEY PLAN

SCALE: NO SCALE

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL L05
SITE PLAN

SHEET NUMBER

C-L05-S

PLOT DATE: 9/22/2023 9:59:15 AM SAVE DATE: 9/13/2023 1:26:11 PM FIELD, JAKE

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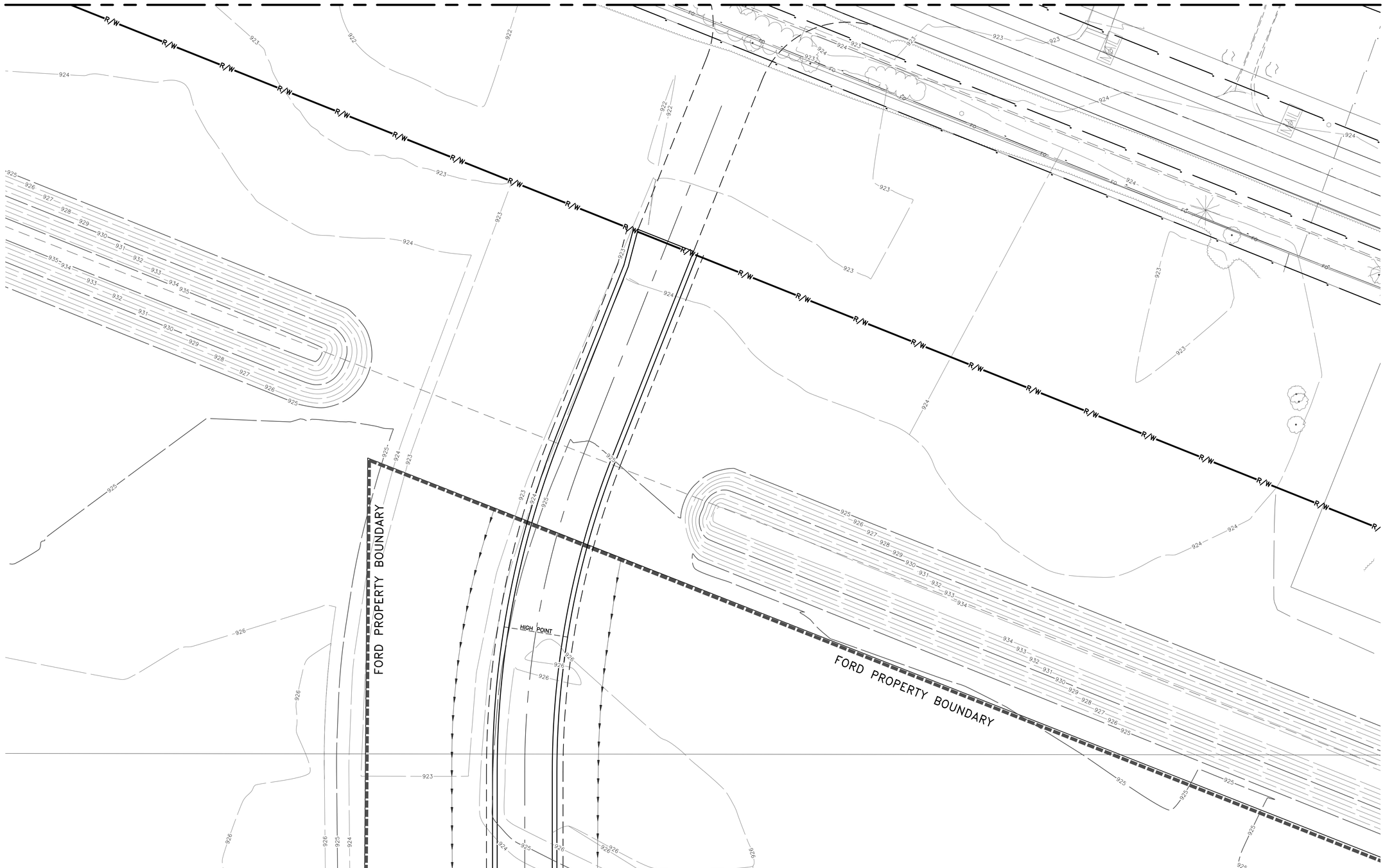

NORTH

PARTIAL M05 GRADING PLAN

SCALE: 1"=30"

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ENGINEER
NO. 45667
REGISTERED PROFESSIONAL ENGINEER

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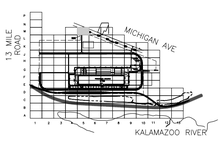

KEY PLAN

SCALE: NO SCALE

FORD LAND

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USA

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MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL M05
GRADING PLAN

SHEET NUMBER

C-M05-G

PLOT DATE: 9/22/2023 10:01:13 AM
SAVE DATE: 9/21/2023 3:31:12 PM
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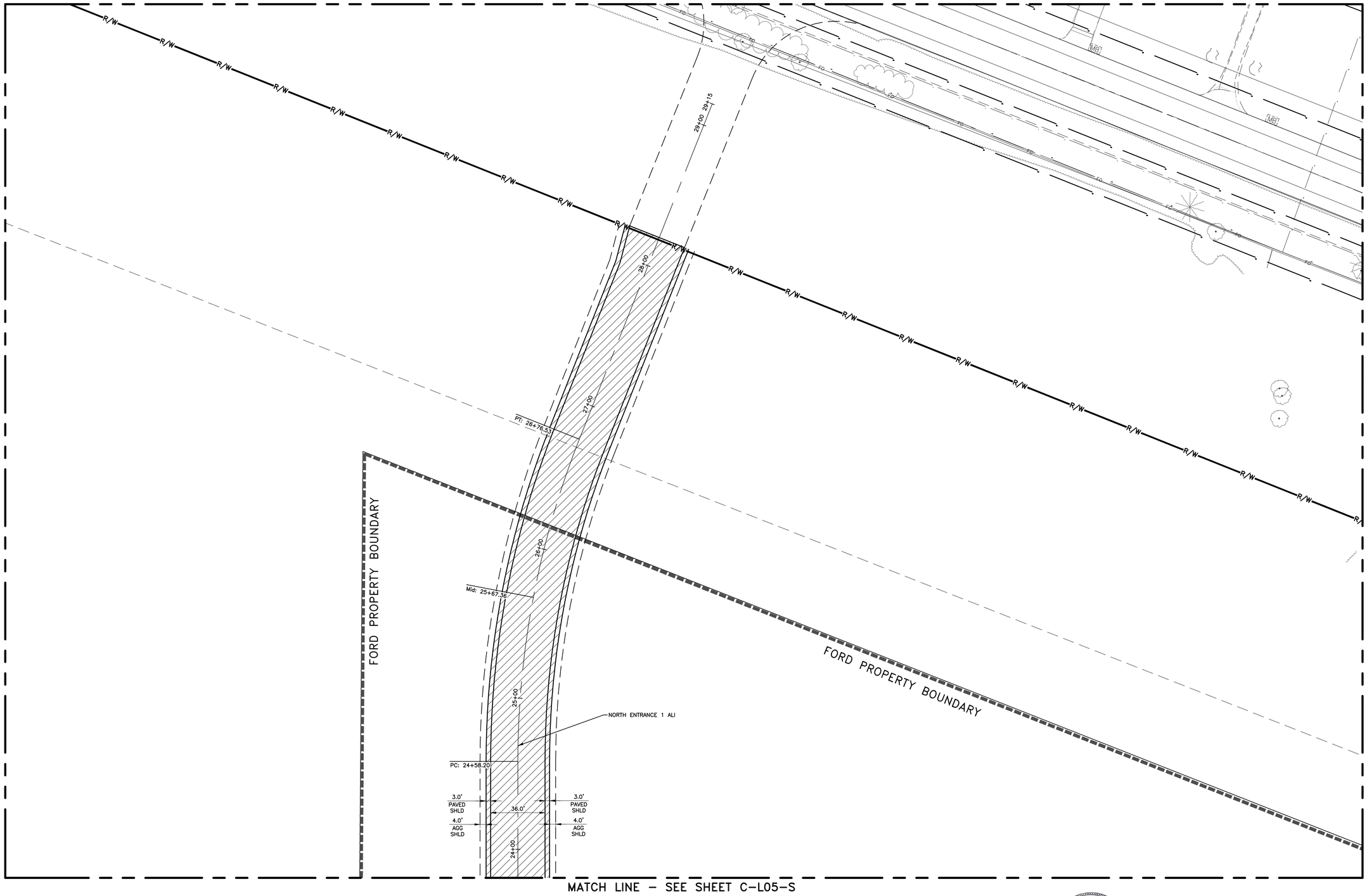

NORTH

PARTIAL M05 SITE PLAN

SCALE: 1"=30"

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

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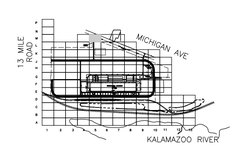

KEY PLAN

SCALE: NO SCALE

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MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PARTIAL M05
SITE PLAN

SHEET NUMBER

C-M05-S

PLOT DATE: 9/22/2023 10:07:08 AM SAVE DATE: 9/20/2023 12:24:09 PM FIELD, JAKE

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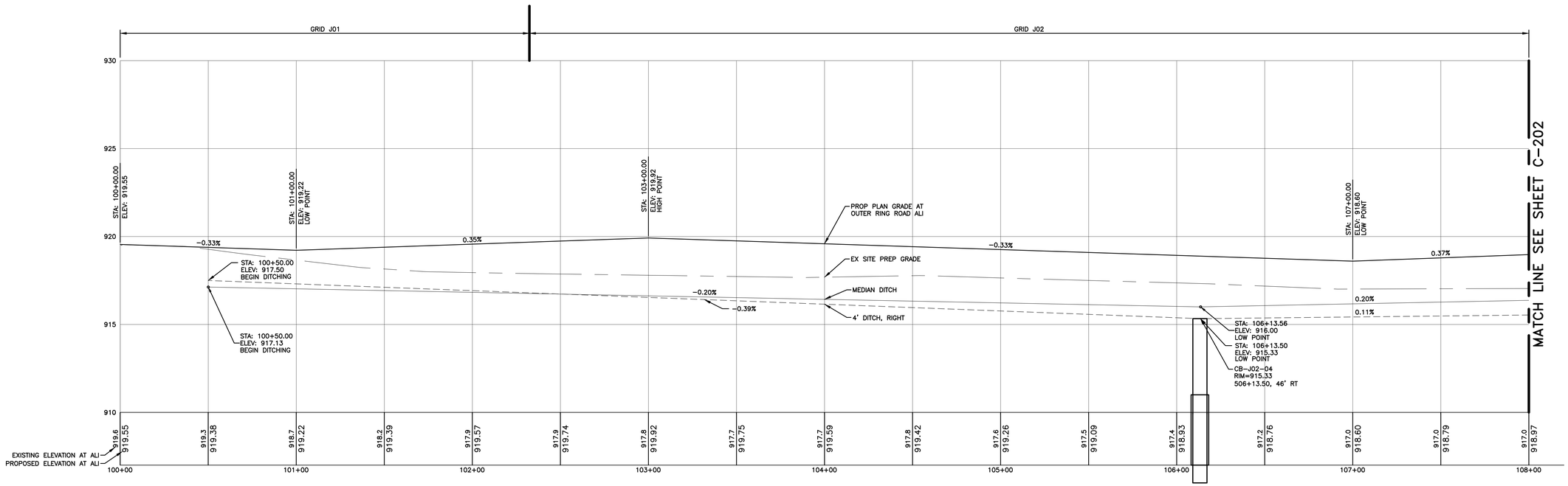

OUTER RING ROAD
ROAD PROFILE
STA 100+00 − 108+00

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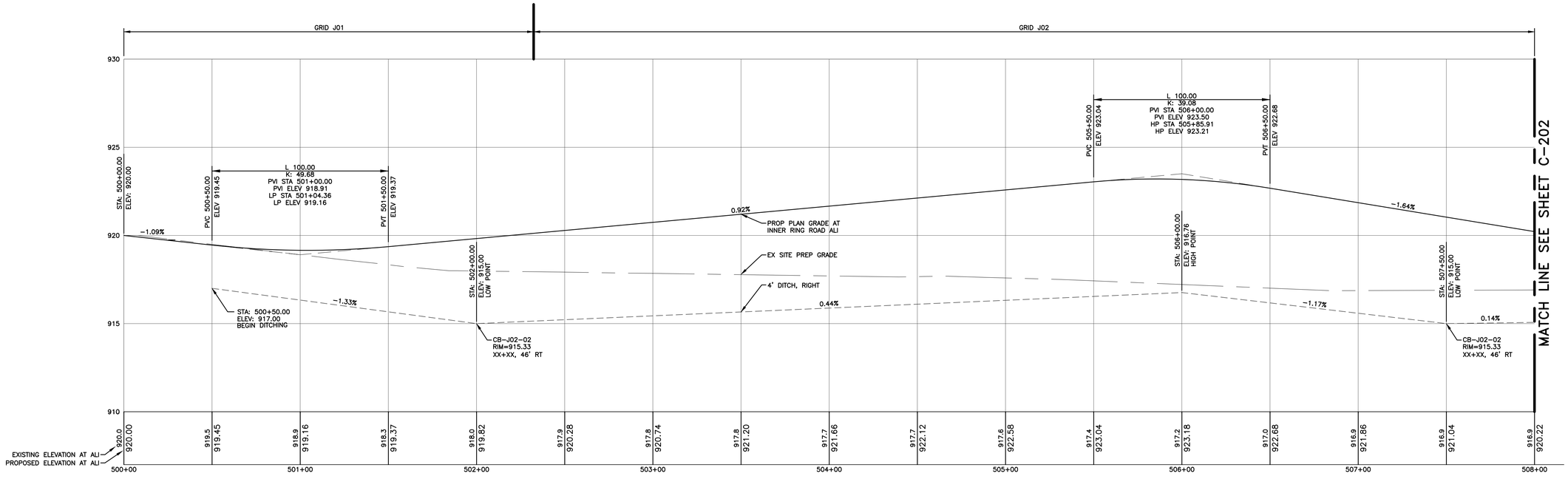
VERT. SCALE 1"=3'



INNER RING ROAD
ROAD PROFILE
STA 500+00 − 508+00

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USA

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IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

ROAD PROFILES
SHEET 1

SHEET NUMBER

C-201

PLOT DATE: 9/22/2023 7:47:07 AM SAVE DATE: 9/11/2023 7:26:58 AM DEVADASAN, MALU C:\Users\mdevadasan\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\2023000-C-PLTS-ROAD PROFILES-A2ZWADE.dwg

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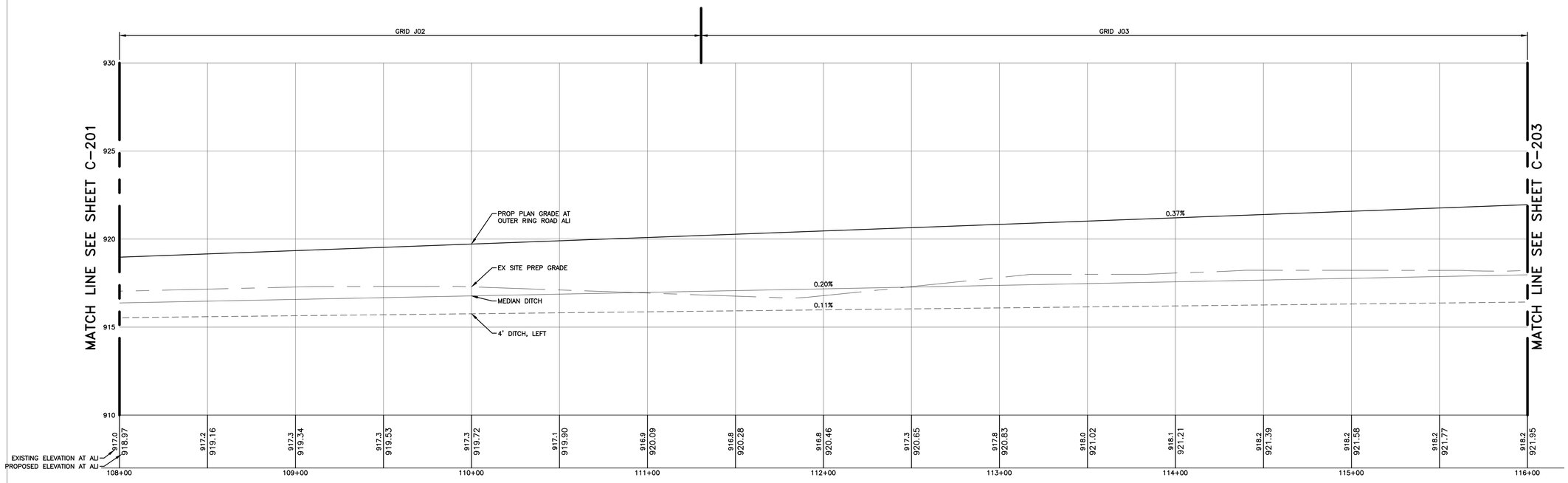

OUTER RING ROAD
ROAD PROFILE
STA 108+00 – 116+00

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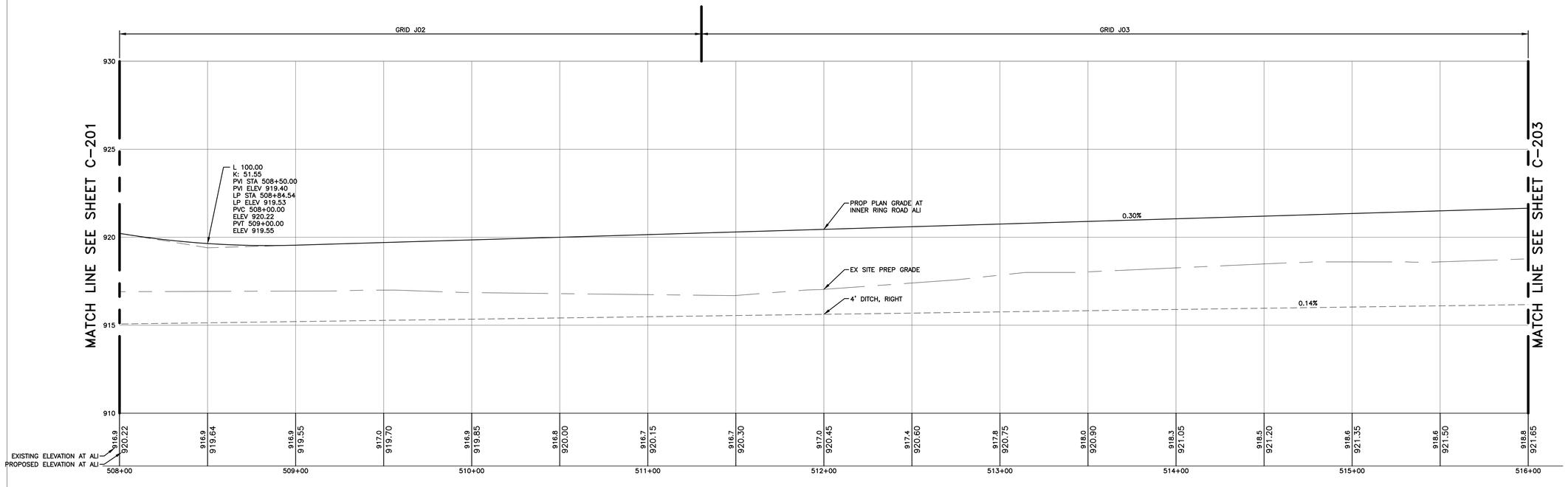
VERT. SCALE 1"=3'



INNER RING ROAD
ROAD PROFILE
STA 508+00 – 516+00

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VERT. SCALE 1"=3'

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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

ROAD PROFILES
SHEET 2

SHEET NUMBER

C-202

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

PLOT DATE: 9/22/2023 7:47:14 AM SAVE DATE: 9/22/2023 7:26:58 AM DEVADASAN, MALU C:\Users\mdevadasan\DCACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\2000006-C-FILTS-ROAD PROFILES-A22-WADE.dwg

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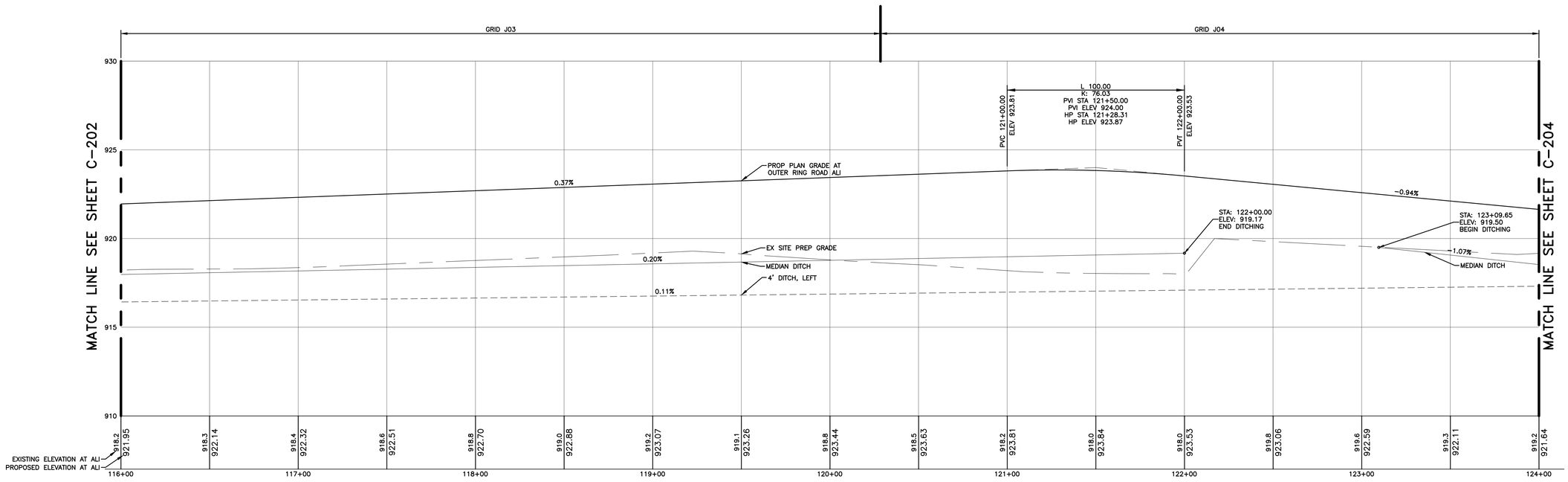
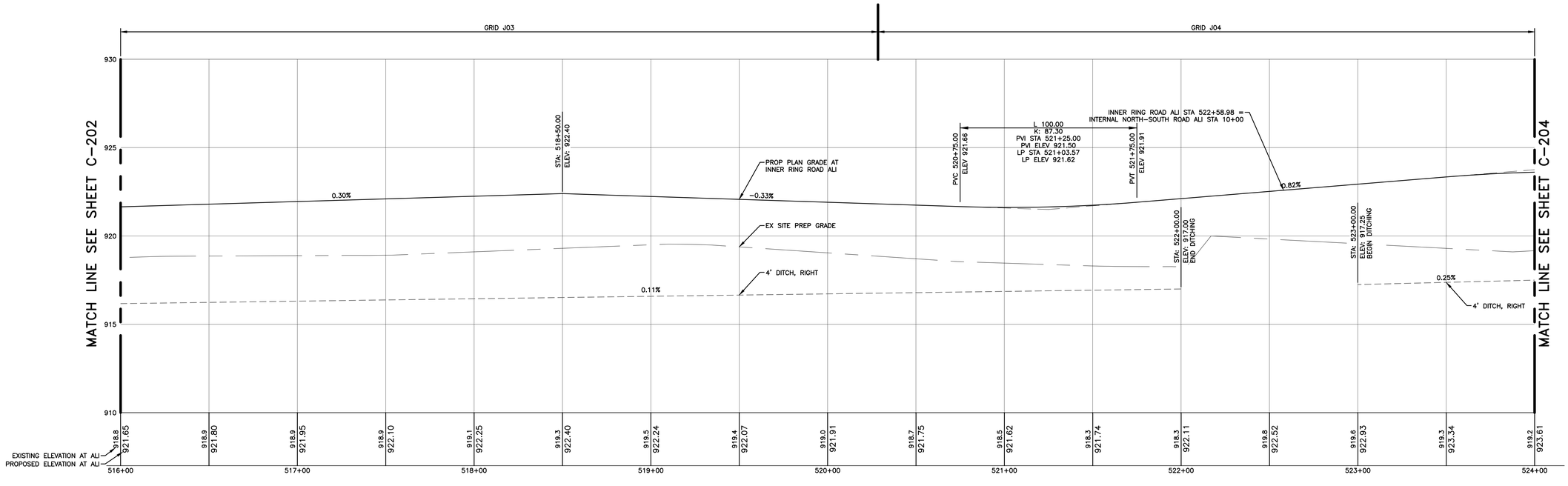


OUTER RING ROAD
ROAD PROFILE
STA 116+00 – 124+00

HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'



INNER RING ROAD
ROAD PROFILE
STA 516+00 – 524+00

HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'

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ENGINEER
NO. 45667
REGISTERED PROFESSIONAL ENGINEER

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DEARBORN, MICHIGAN 48120-1168
USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

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A/E TEAM INFORMATION	
IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

ROAD PROFILES
SHEET 3

SHEET NUMBER

C-203

PLOT DATE: 9/22/2023 7:47:22 AM
SAVE DATE: 9/11/2023 7:26:58 AM
DEVADASAN, MALU
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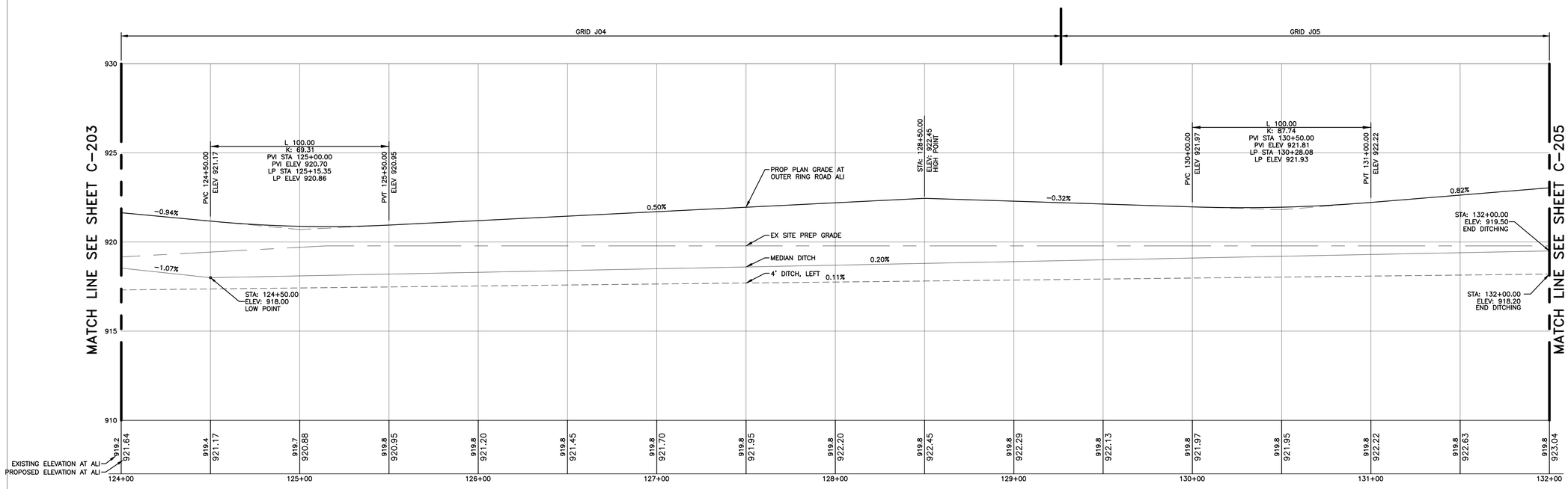
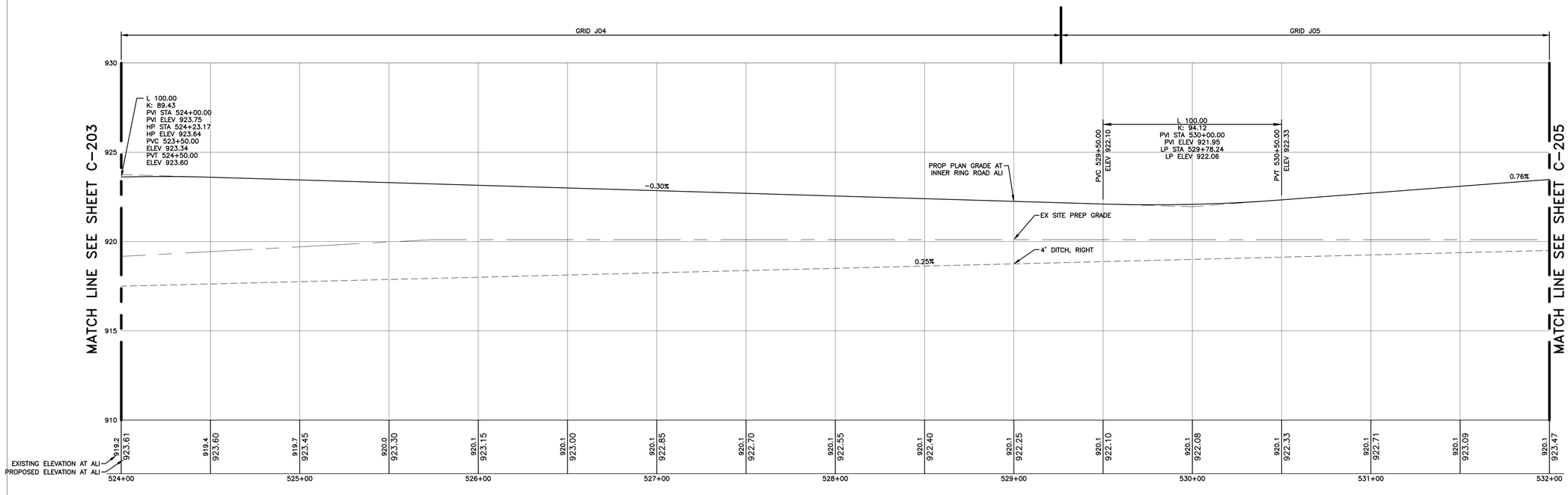


OUTER RING ROAD
ROAD PROFILE
STA 124+00 – 132+00

HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'



INNER RING ROAD
ROAD PROFILE
STA 524+00 – 532+00

HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'

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ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

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DEARBORN, MICHIGAN 48120-1168
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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

ROAD PROFILES
SHEET 4

SHEET NUMBER

C-204

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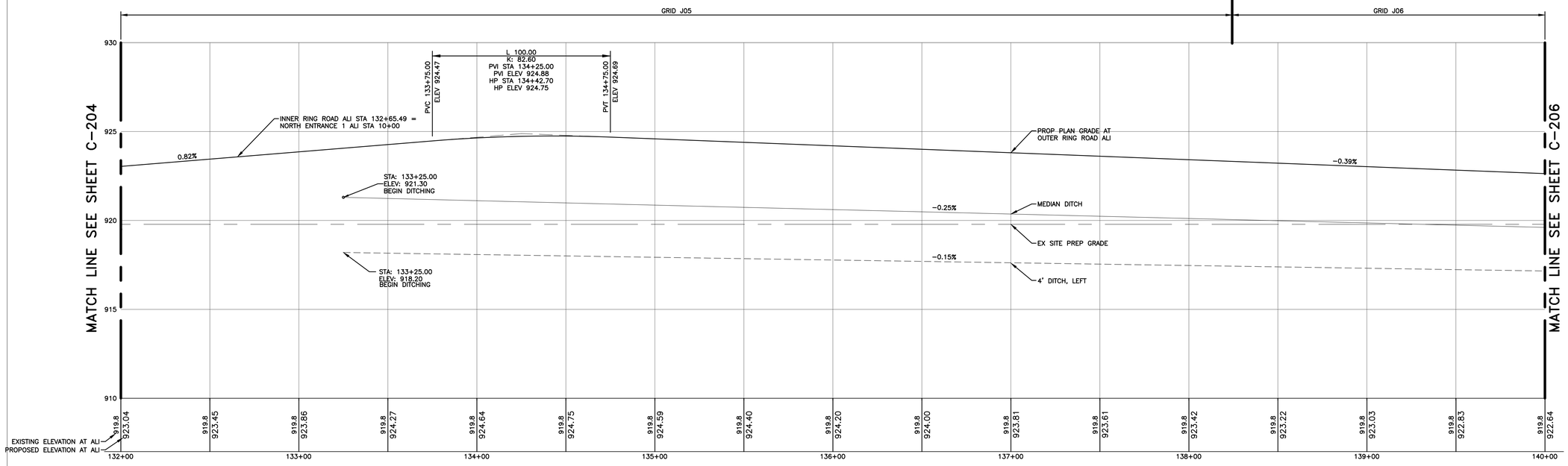
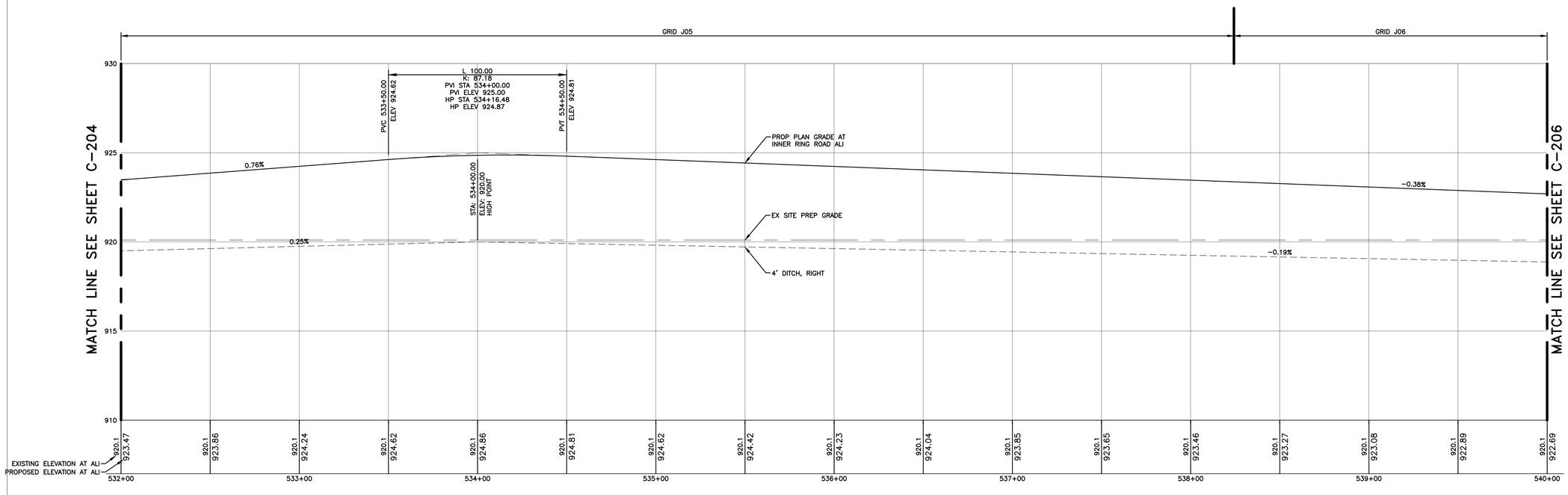


OUTER RING ROAD
ROAD PROFILE
STA 132+00 – 140+00

HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'



INNER RING ROAD
ROAD PROFILE
STA 532+00 – 540+00

HORZ. SCALE 1"=30'
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FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

ROAD PROFILES
SHEET 5

SHEET NUMBER

C-205

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

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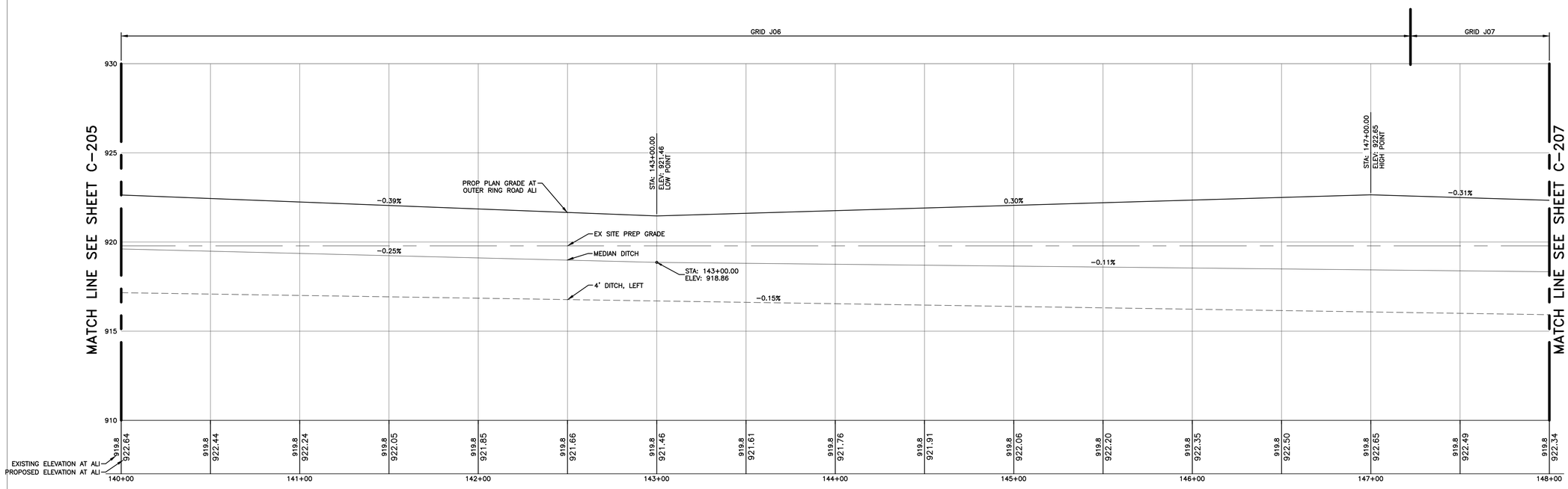
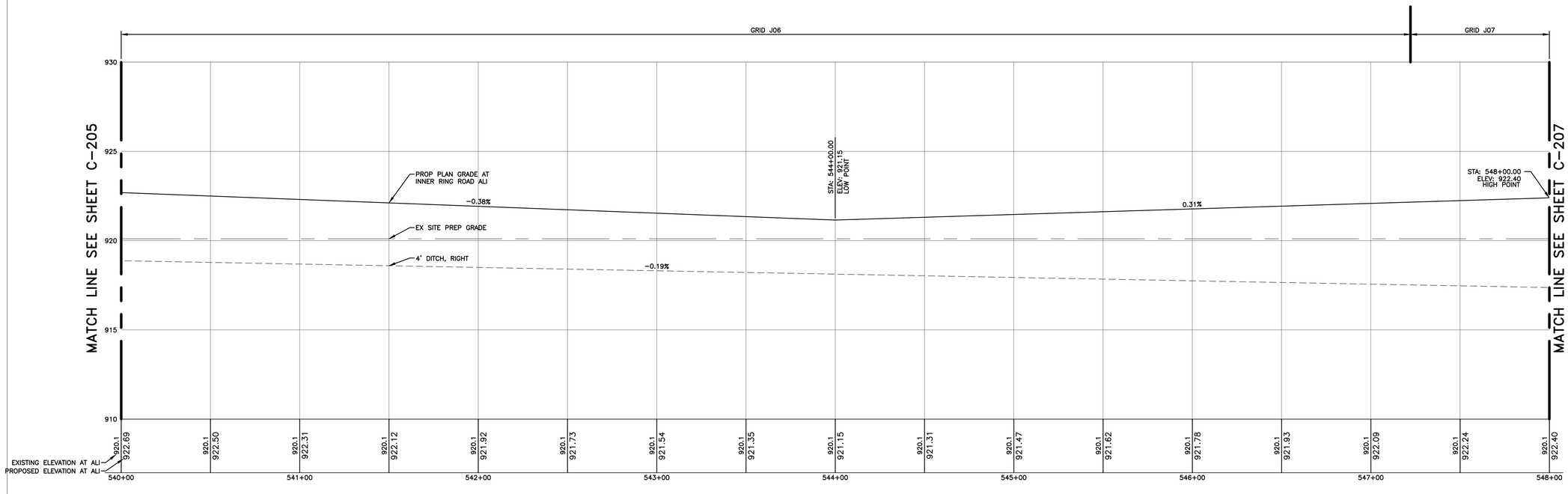


OUTER RING ROAD
ROAD PROFILE
STA 140+00 – 148+00

HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'



INNER RING ROAD
ROAD PROFILE
STA 540+00 – 548+00

HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'

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NO. 45667
LICENSED PROFESSIONAL ENGINEER

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USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

ROAD PROFILES
SHEET 6

SHEET NUMBER

C-206

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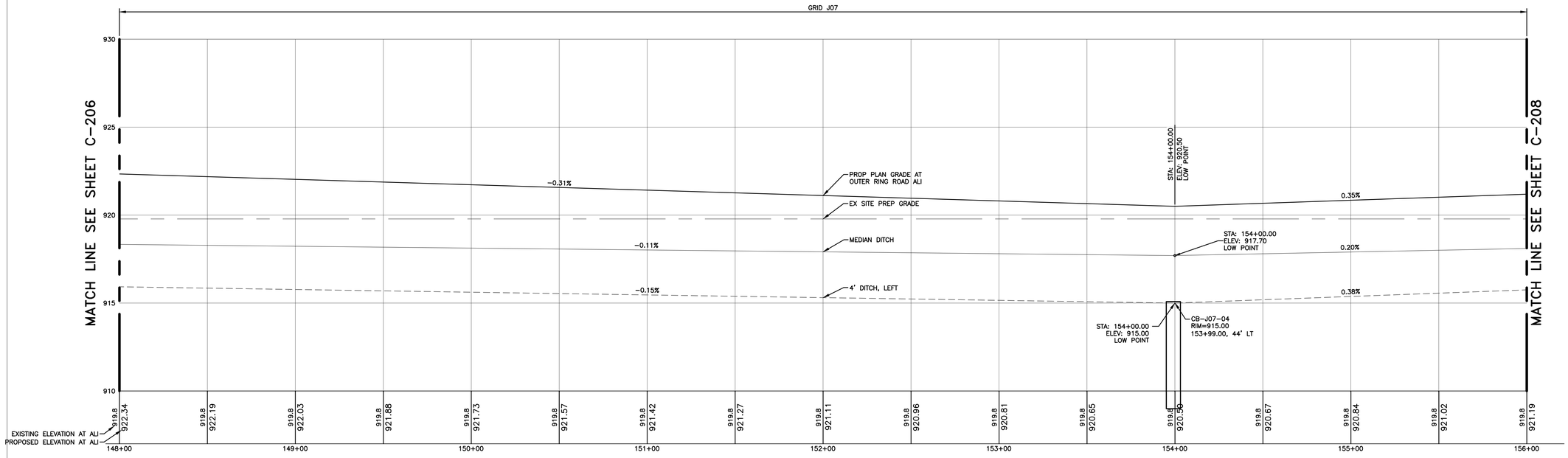
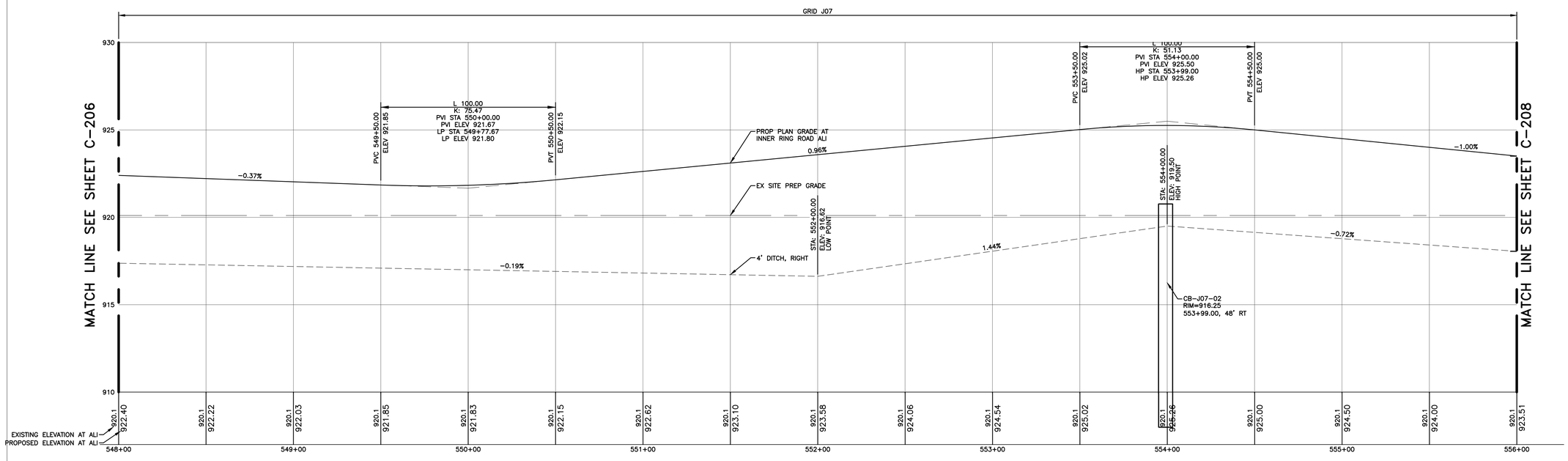


OUTER RING ROAD
ROAD PROFILE
STA 148+00 − 156+00

HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'



INNER RING ROAD
ROAD PROFILE
STA 548+00 − 556+00

HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'

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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE
ROAD PROFILES
SHEET 7

SHEET NUMBER
C-207

ERICH VINCENT SMITH JR. ENGINEER NO. 45667 LICENSED PROFESSIONAL ENGINEER
STATE OF MICHIGAN

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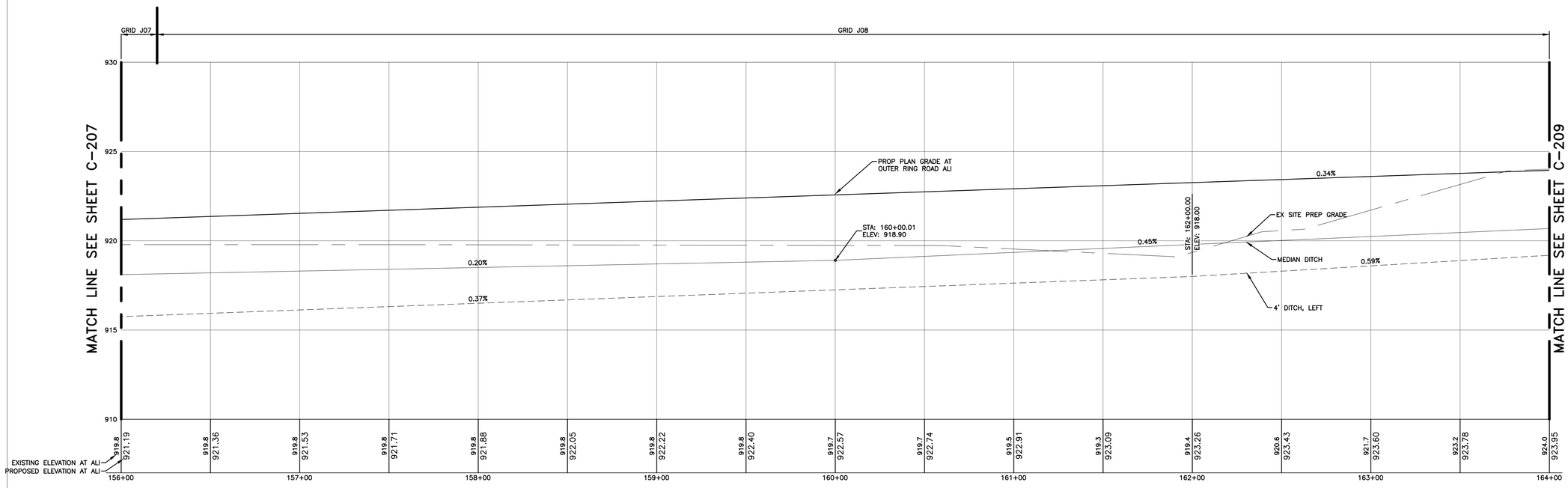
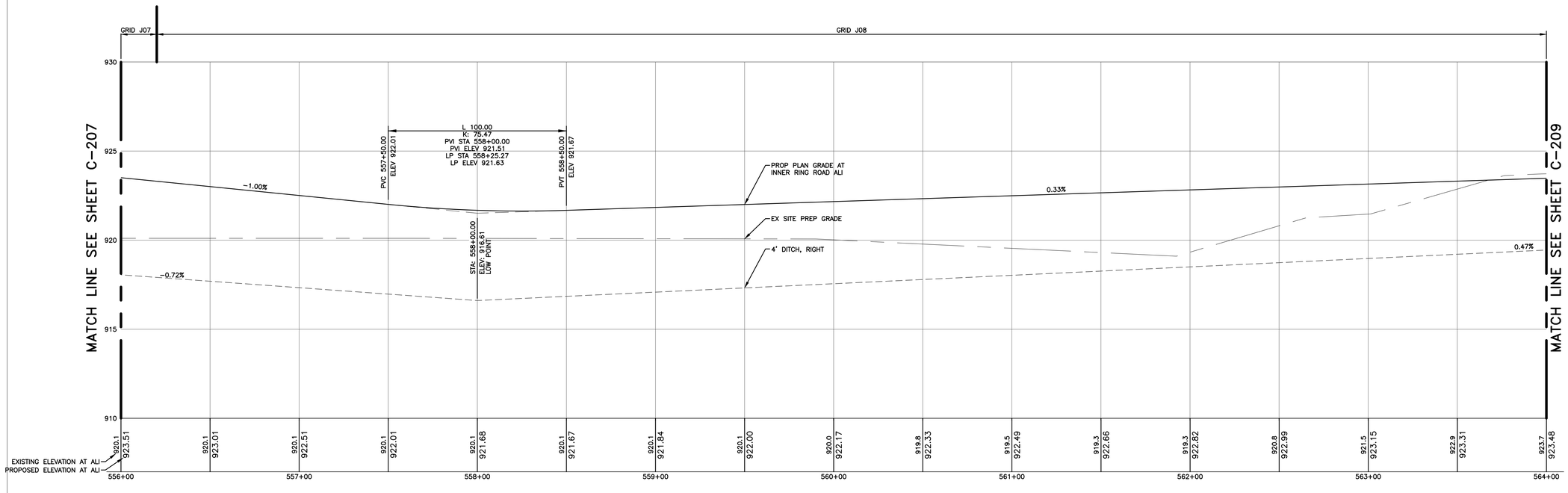


OUTER RING ROAD
ROAD PROFILE
STA 156+00 – 164+00
HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'



INNER RING ROAD
ROAD PROFILE
STA 556+00 – 564+00
HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'

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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE
ROAD PROFILES
SHEET 8

SHEET NUMBER
C-208

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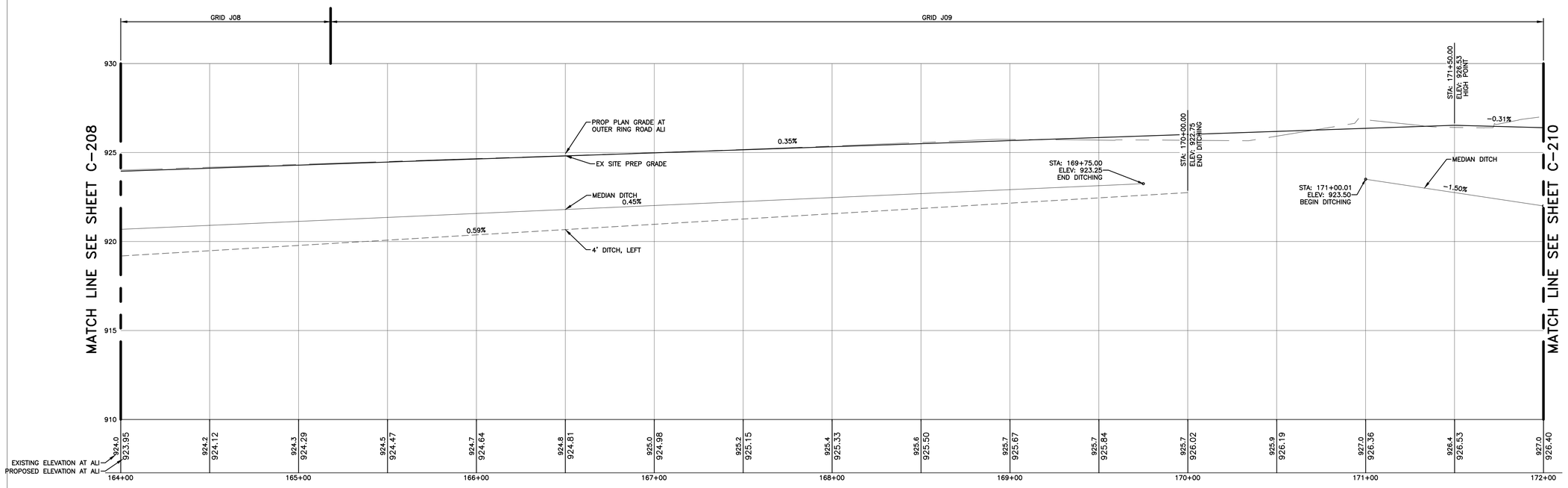
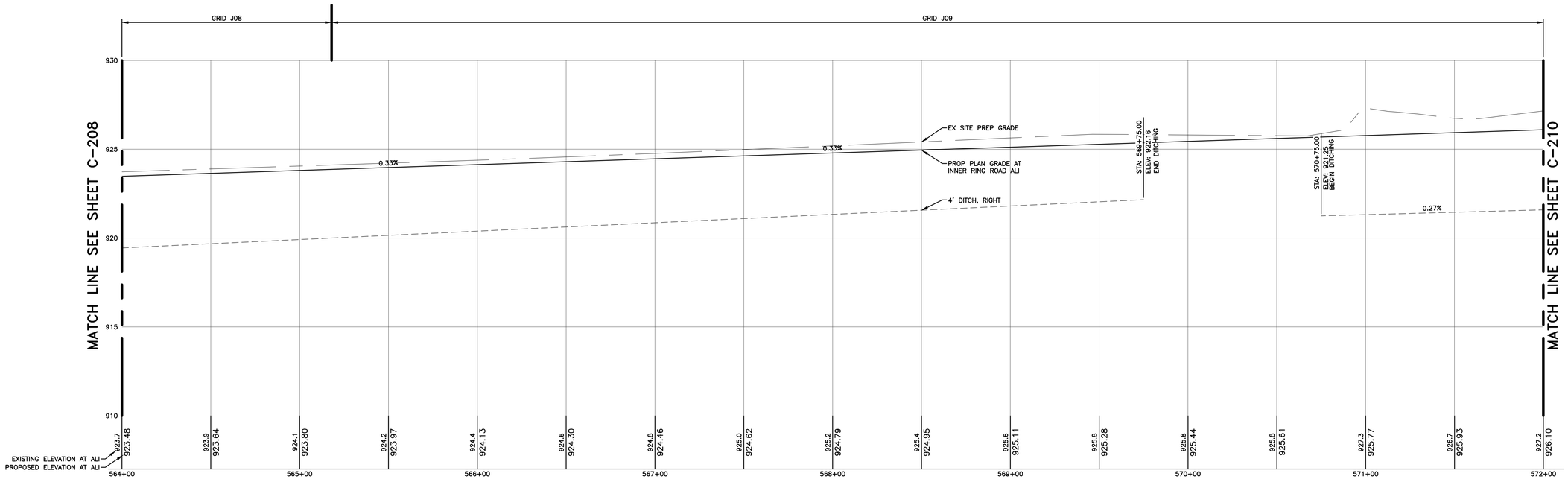


OUTER RING ROAD
ROAD PROFILE
STA 164+00 – 172+00

HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'



INNER RING ROAD
ROAD PROFILE
STA 564+00 – 572+00

HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'

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A/E TEAM INFORMATION

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DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

ROAD PROFILES
SHEET 9

SHEET NUMBER

C-209

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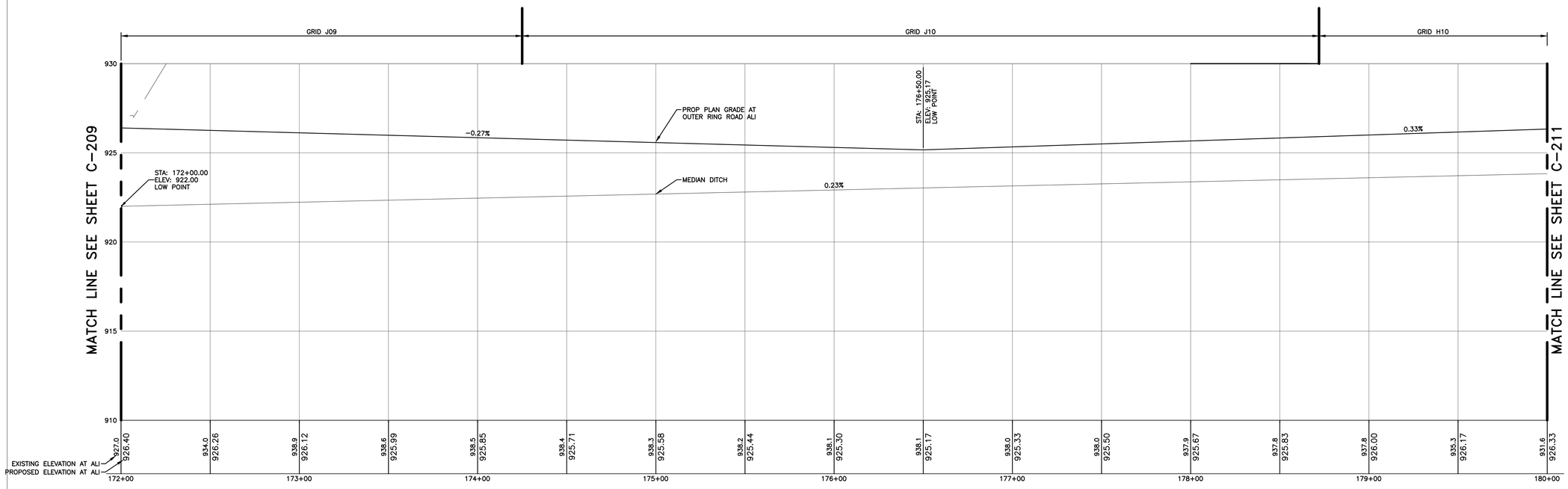
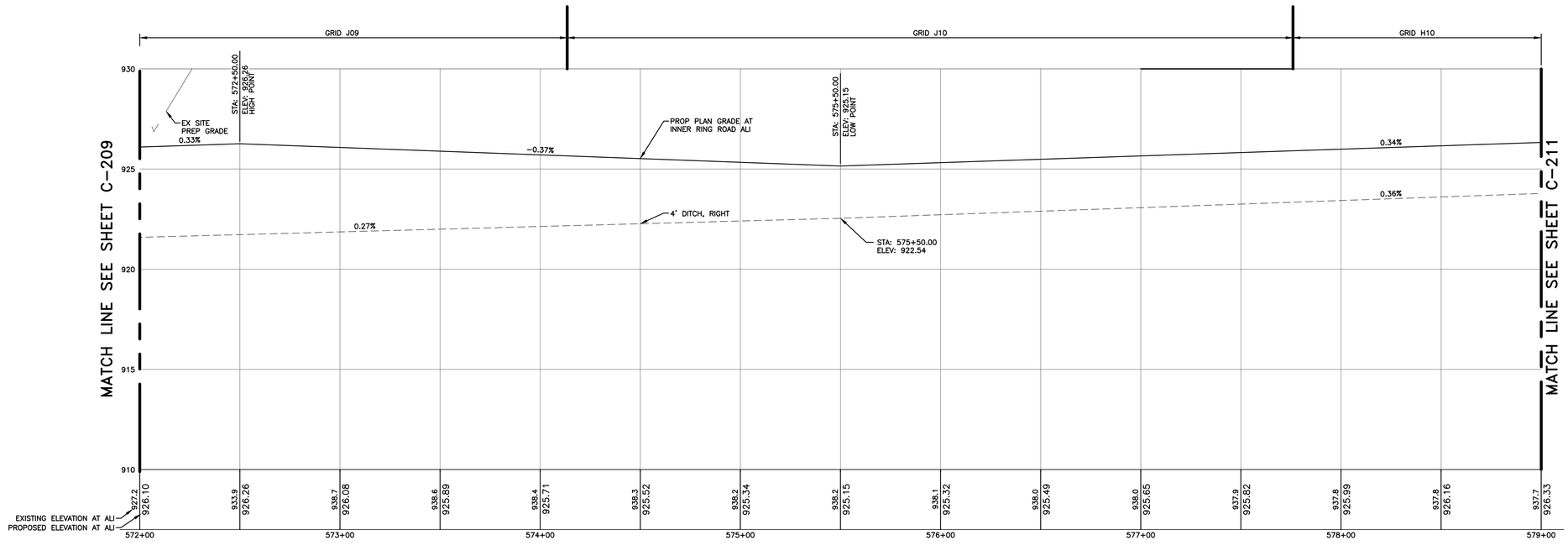


OUTER RING ROAD
ROAD PROFILE
STA 172+00 – 180+00
HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'



INNER RING ROAD
ROAD PROFILE
STA 572+00 – 579+00
HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'

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MICHIGAN

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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE
ROAD PROFILES
SHEET 10

SHEET NUMBER
C-210

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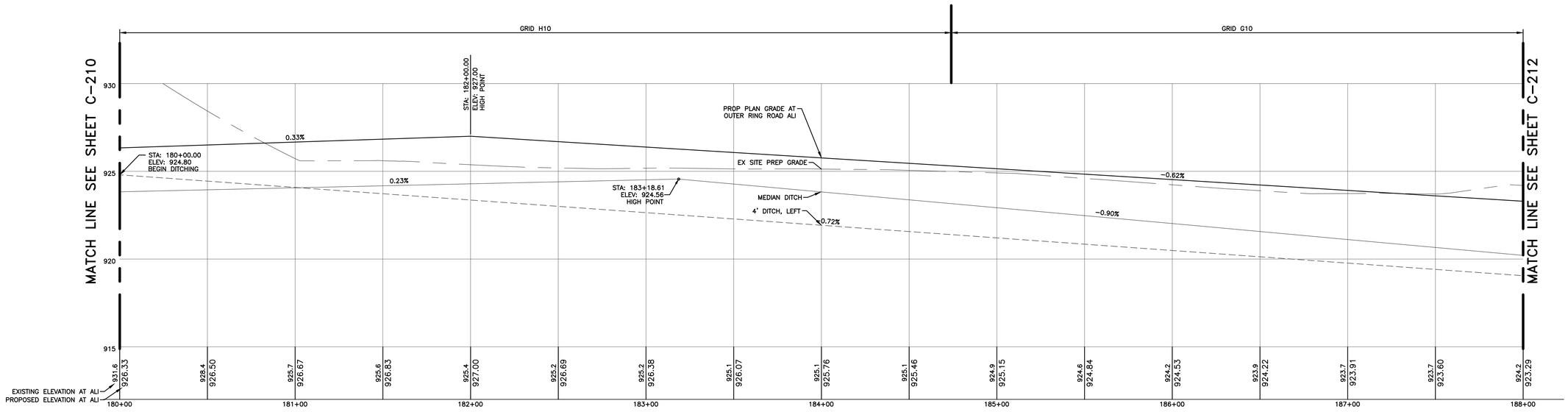
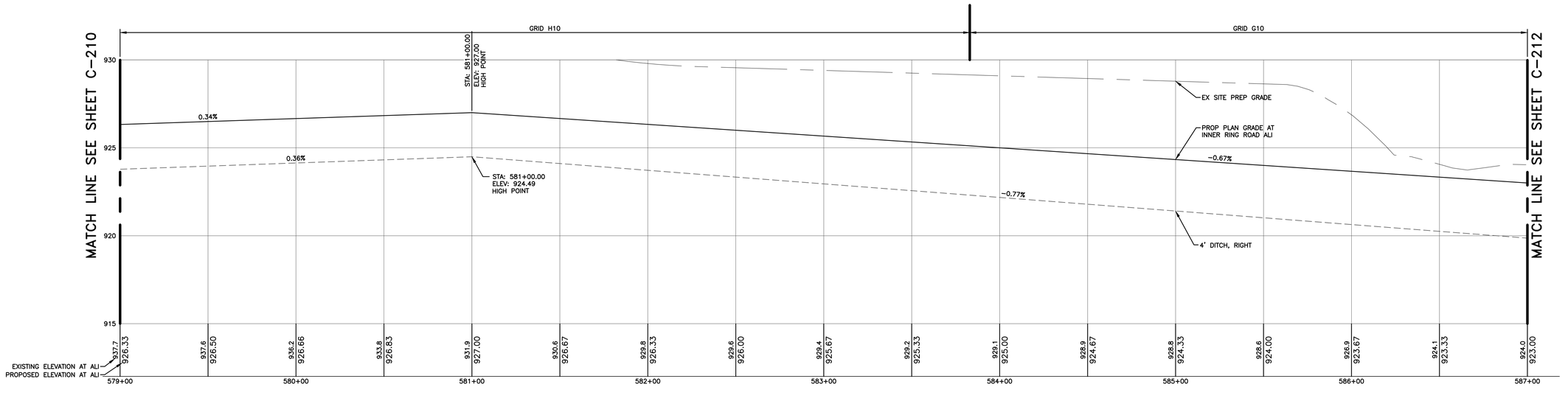


OUTER RING ROAD
ROAD PROFILE
STA 180+00 – 188+00
HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'



INNER RING ROAD
ROAD PROFILE
STA 579+00 – 587+00
HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'

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IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE
ROAD PROFILES
SHEET 11

SHEET NUMBER
C-211

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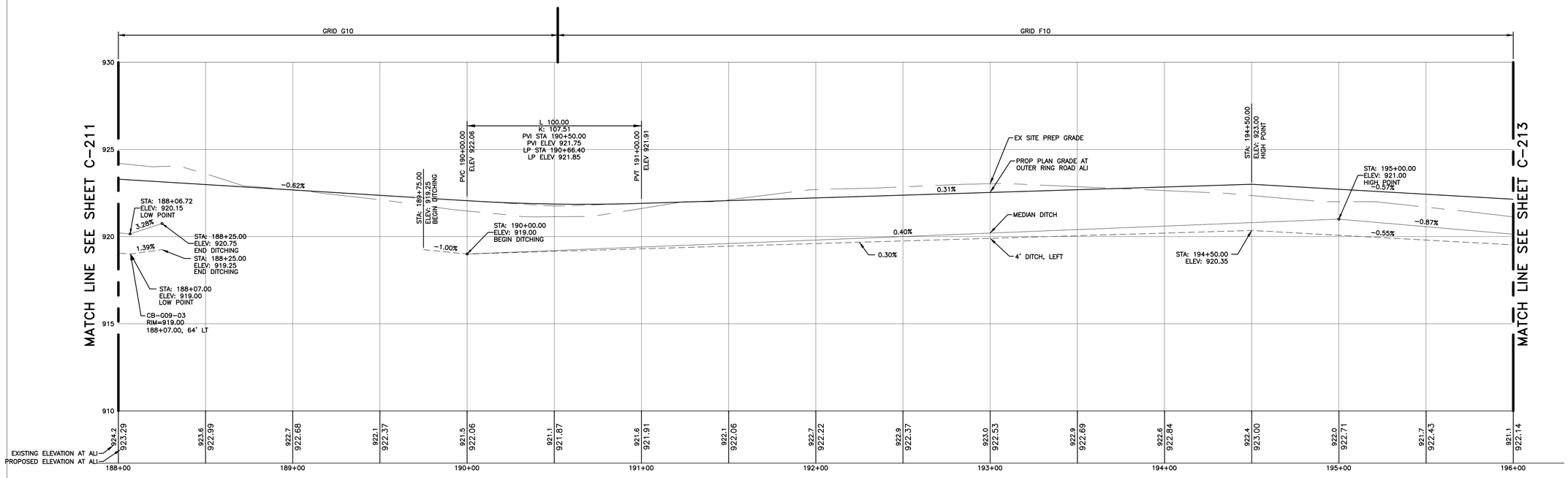

OUTER RING ROAD
ROAD PROFILE
STA 188+00 – 196+00

HORZ. SCALE 1"=30'
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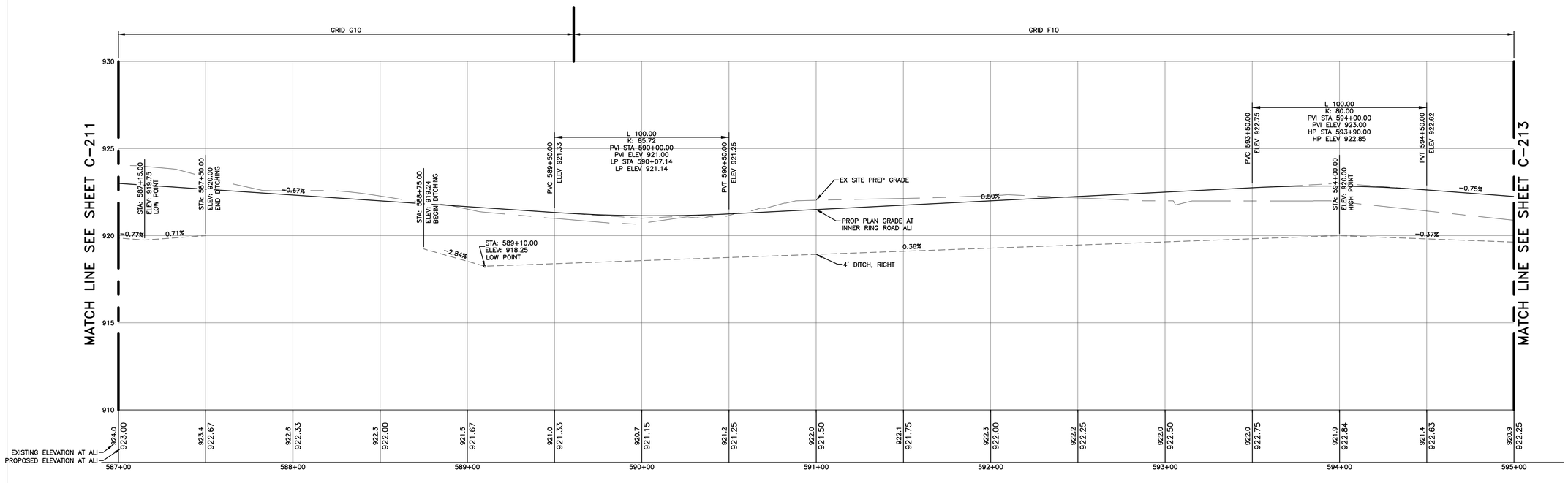

INNER RING ROAD
ROAD PROFILE
STA 587+00 – 595+00

HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'

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DEARBORN, MICHIGAN 48120-1168
USA

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DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

ROAD PROFILES
SHEET 12

SHEET NUMBER

C-212

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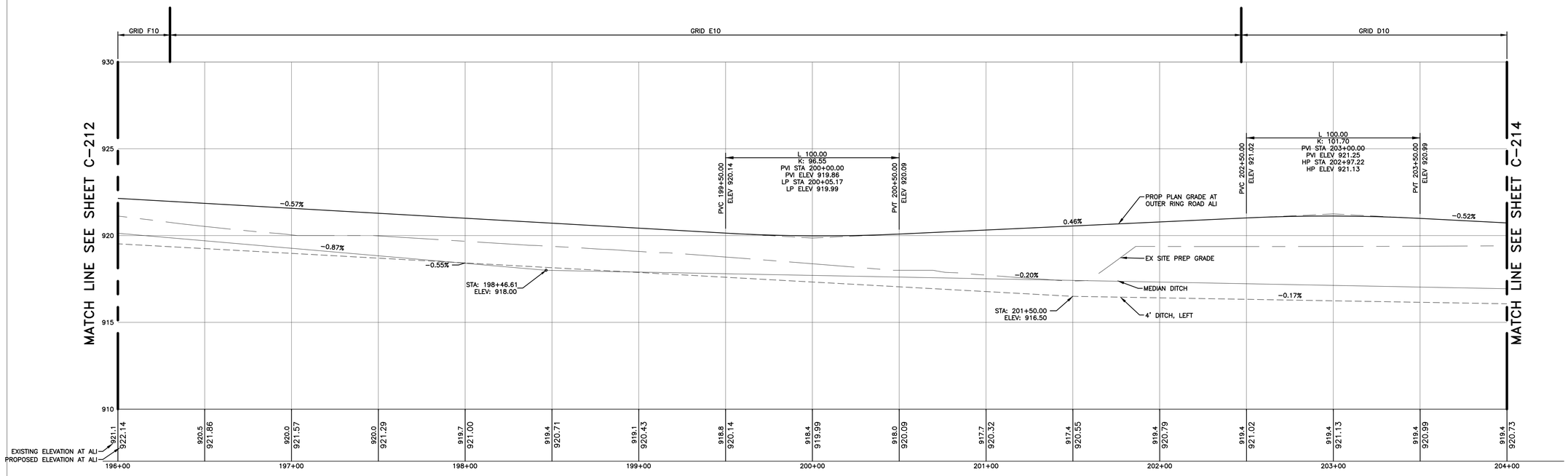
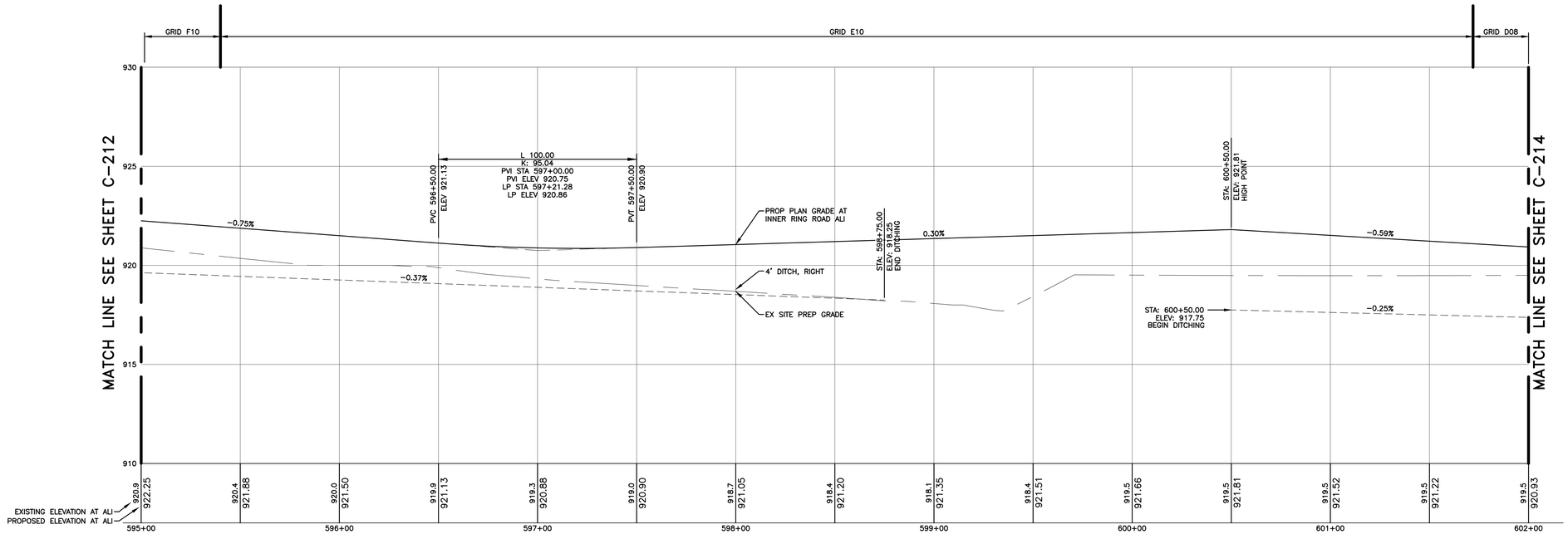


OUTER RING ROAD
ROAD PROFILE
STA 196+00 – 204+00

HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'



INNER RING ROAD
ROAD PROFILE
STA 595+00 – 602+00

HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'

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BATTERY PLANT

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DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

ROAD PROFILES
SHEET 13

SHEET NUMBER

C-213

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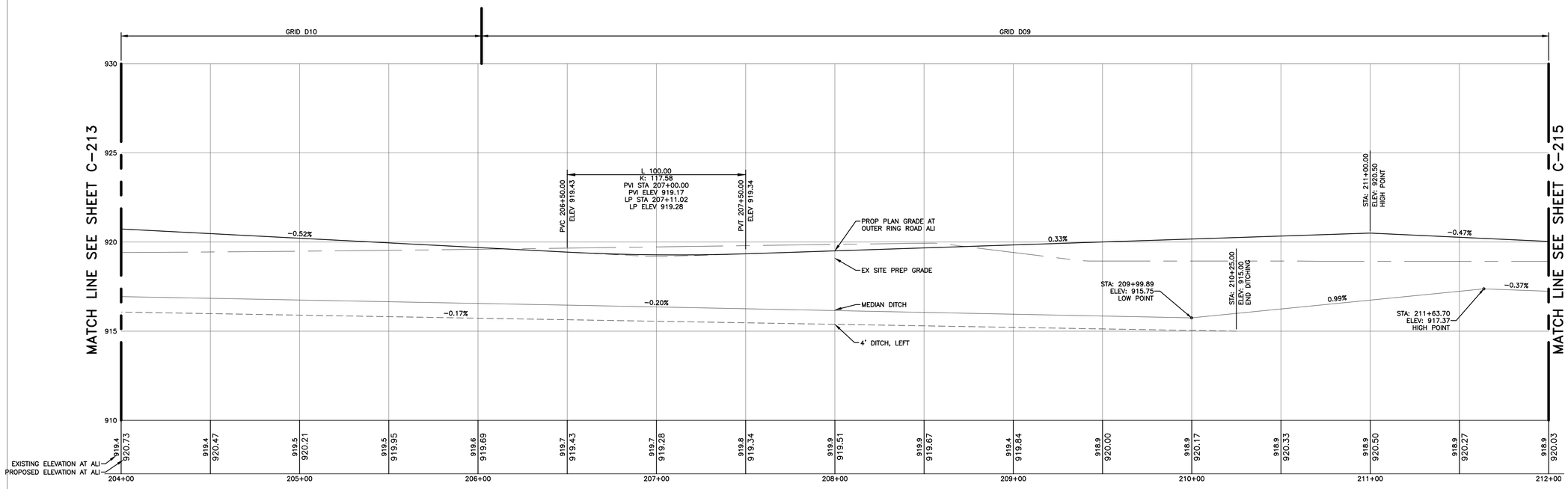
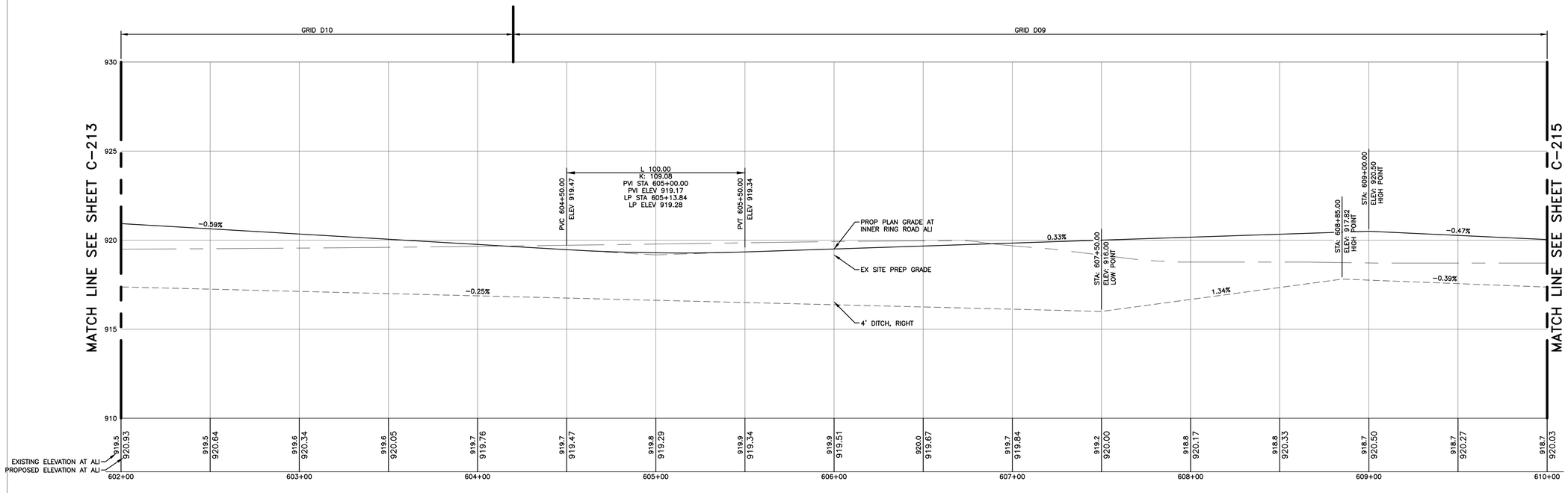


OUTER RING ROAD
ROAD PROFILE
STA 204+00 – 212+00

HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'



INNER RING ROAD
ROAD PROFILE
STA 602+00 – 610+00

HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'

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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

ROAD PROFILES
SHEET 14

SHEET NUMBER

C-214

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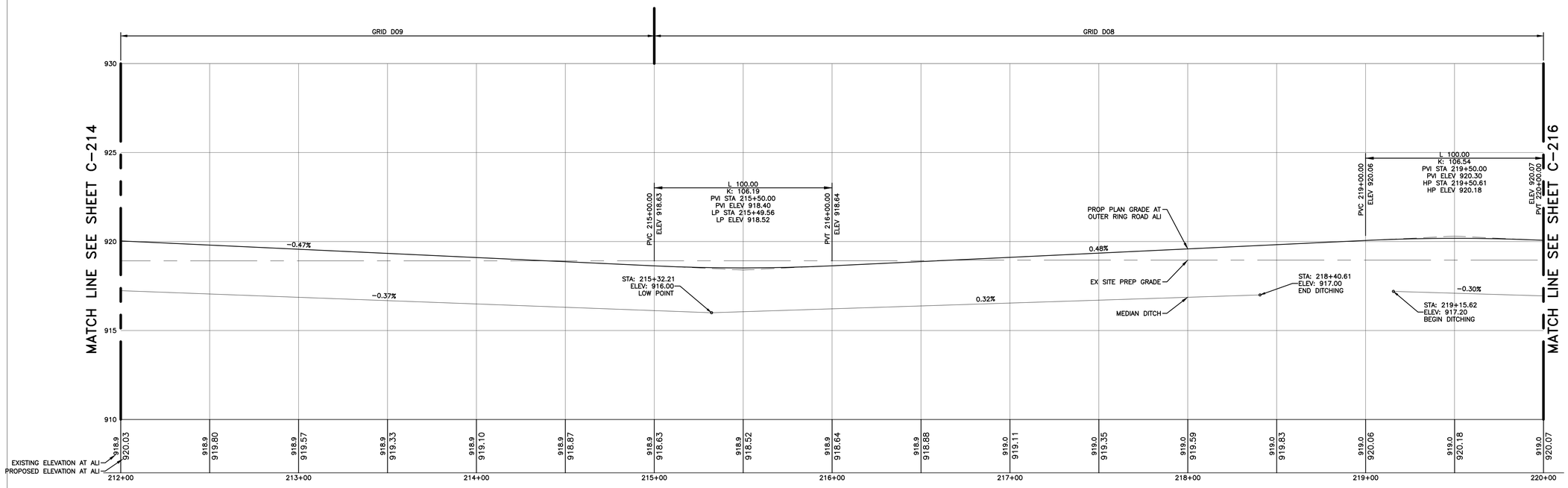
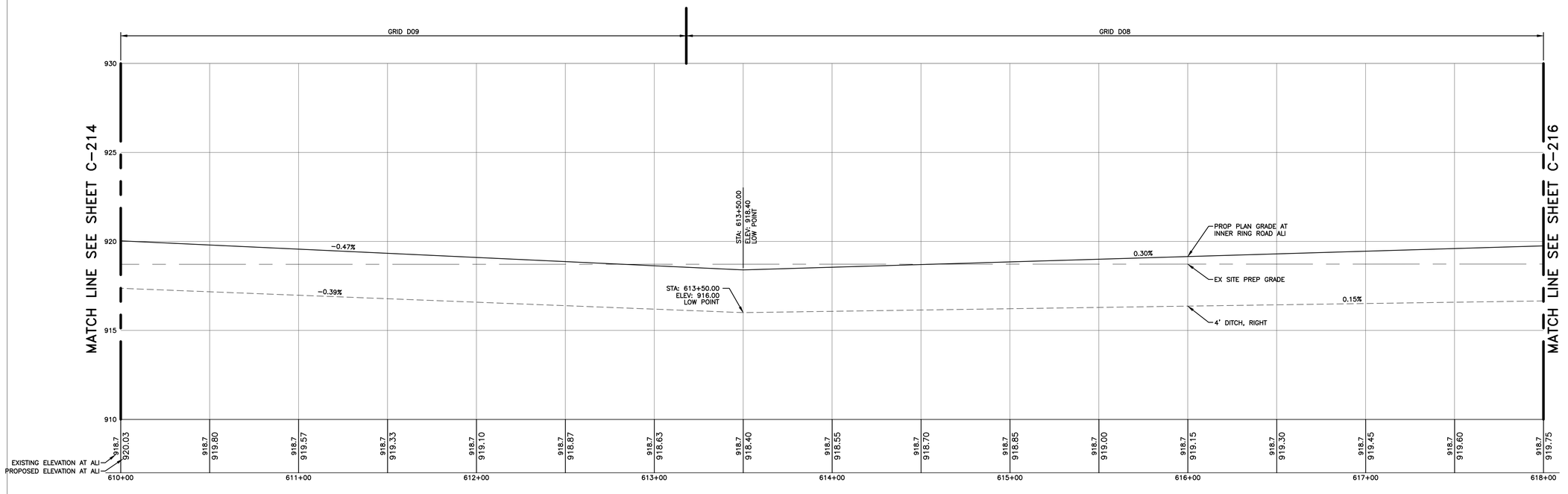


OUTER RING ROAD
ROAD PROFILE
STA 212+00 – 220+00

HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'



INNER RING ROAD
ROAD PROFILE
STA 610+00 – 618+00

HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'

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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

ROAD PROFILES
SHEET 15

SHEET NUMBER

C-215

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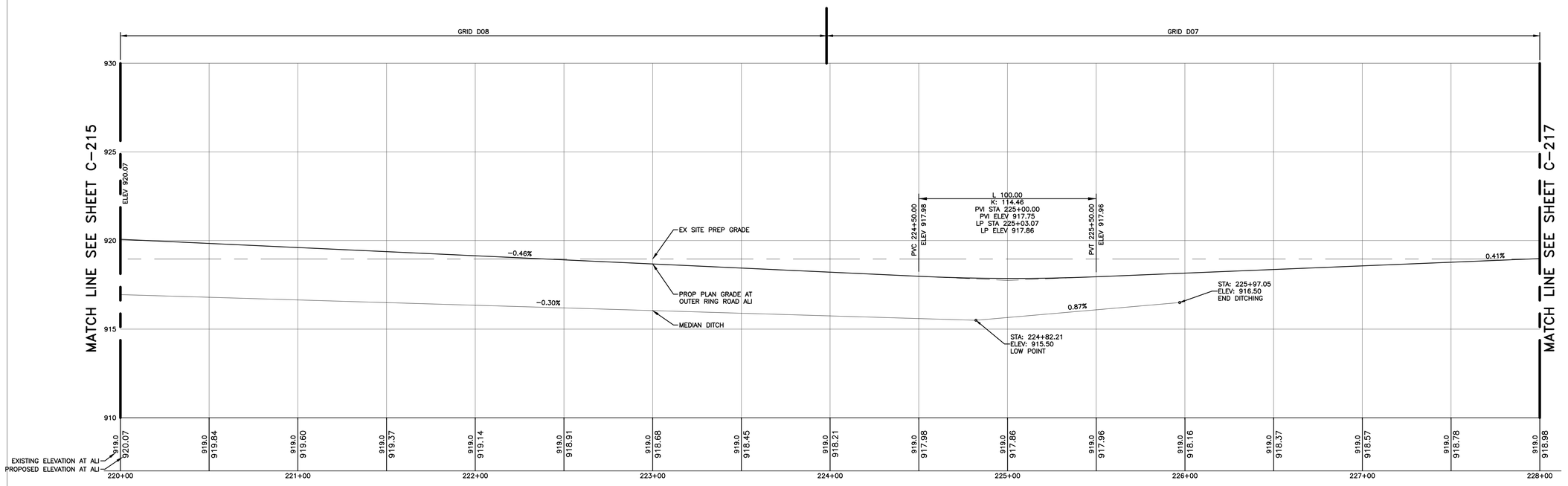
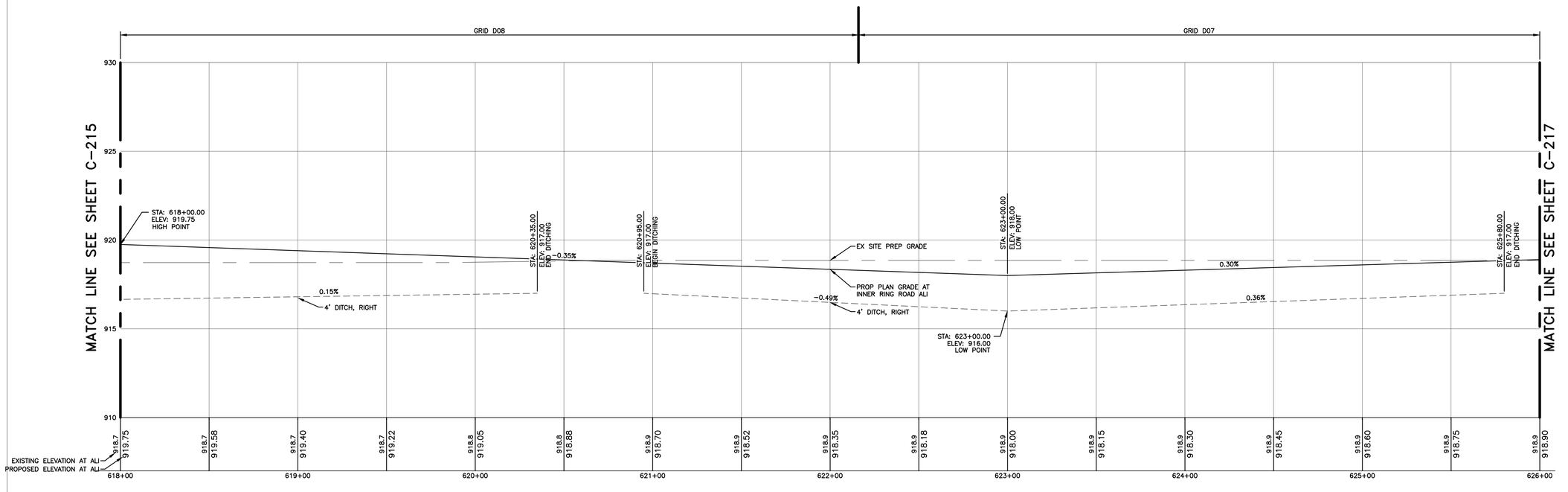


OUTER RING ROAD
ROAD PROFILE
STA 220+00 – 228+00

HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'



INNER RING ROAD
ROAD PROFILE
STA 618+00 – 626+00

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VERT. SCALE 1"=3'

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DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

ROAD PROFILES
SHEET 16

SHEET NUMBER

C-216

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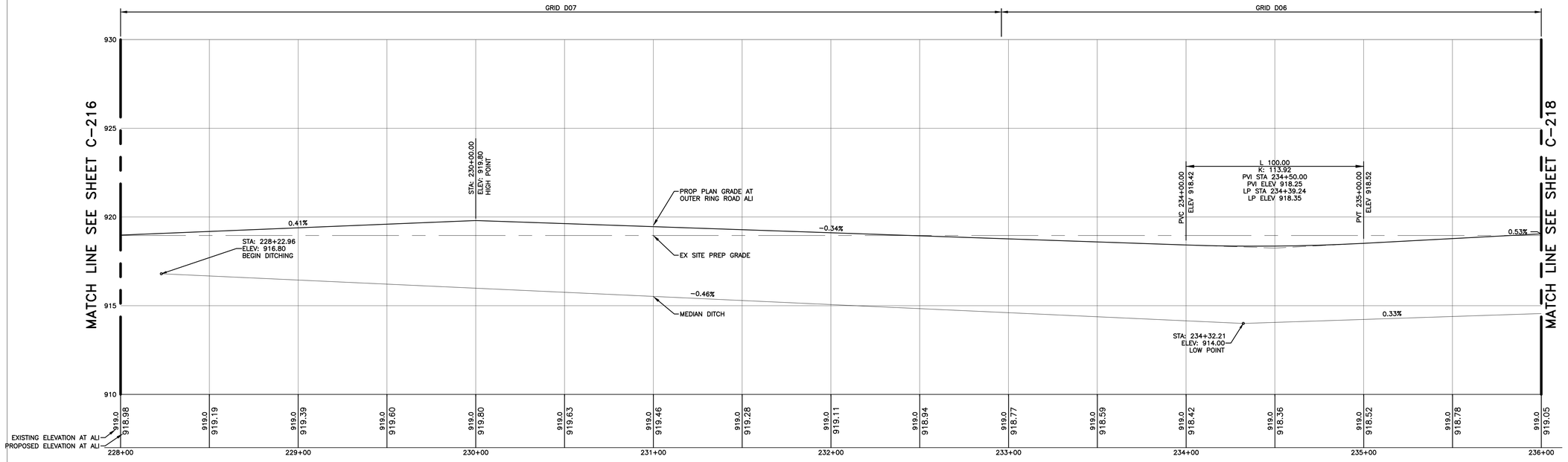
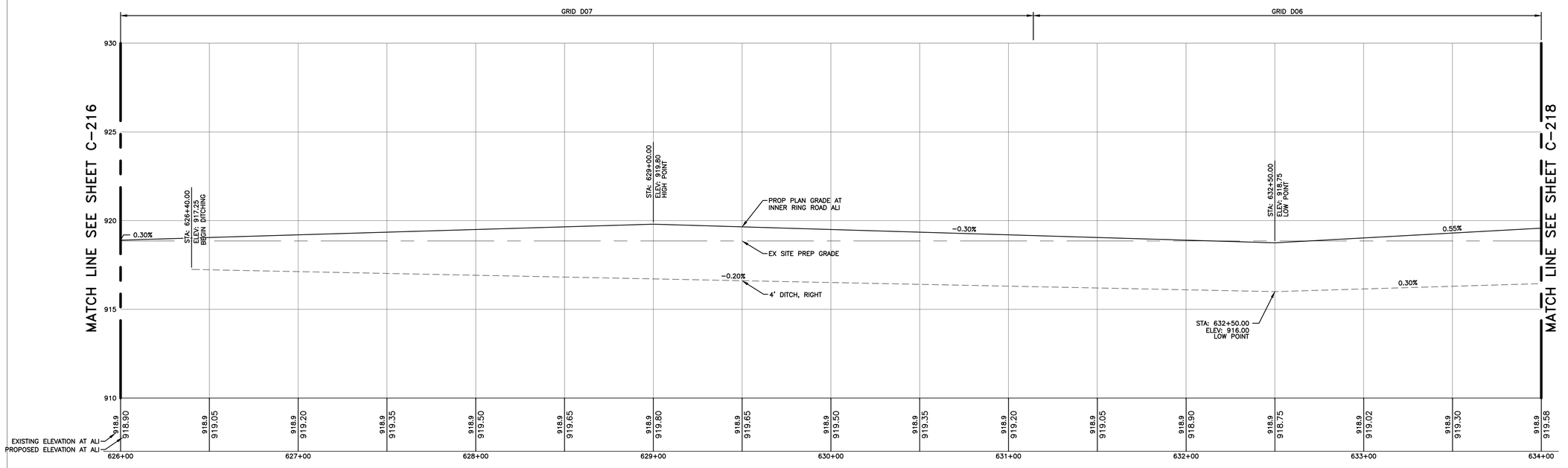


OUTER RING ROAD
ROAD PROFILE
STA 228+00 – 236+00
HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'



INNER RING ROAD
ROAD PROFILE
STA 626+00 – 634+00
HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'

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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE
ROAD PROFILES
SHEET 17

SHEET NUMBER
C-217

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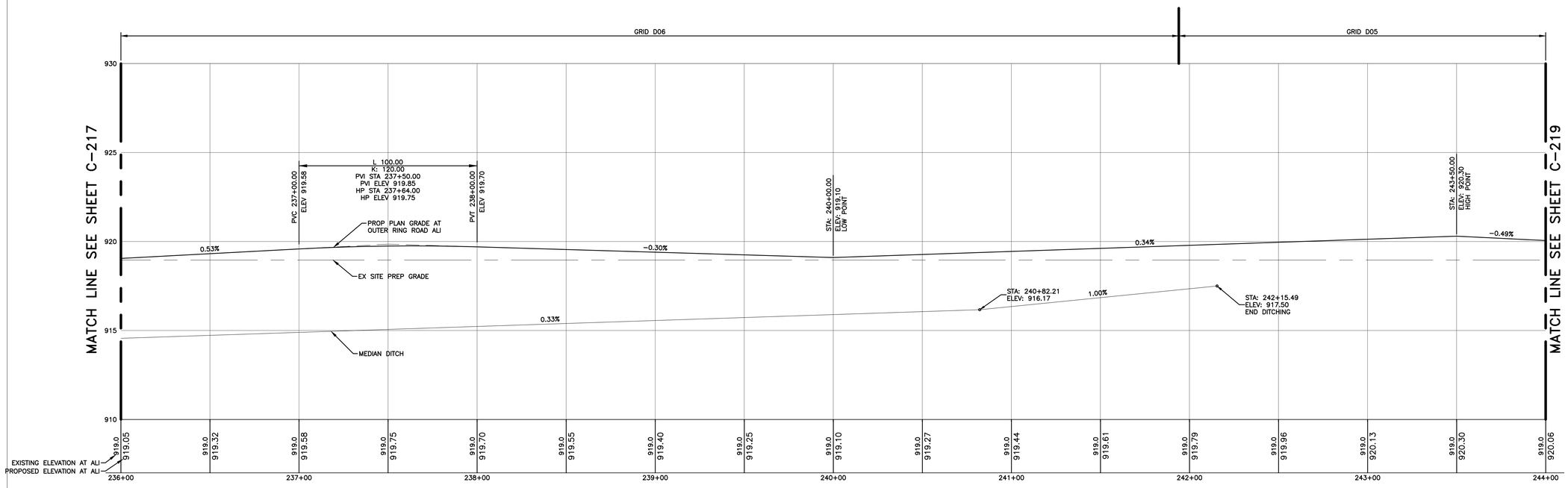
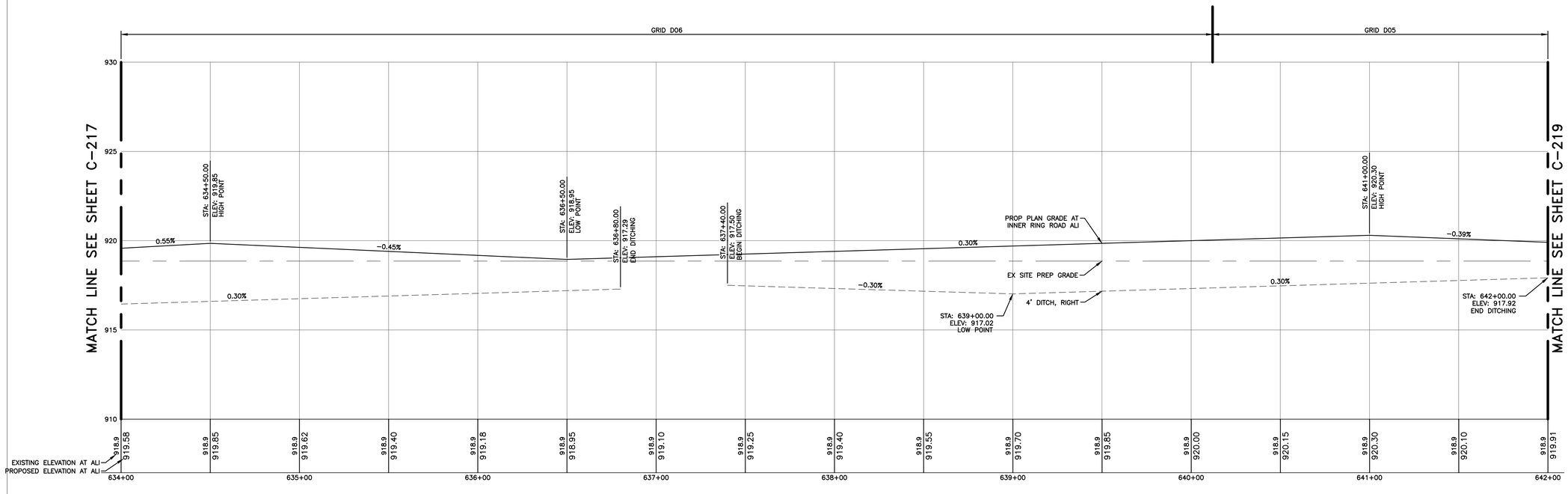


OUTER RING ROAD
ROAD PROFILE
STA 236+00 – 244+00

HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'



INNER RING ROAD
ROAD PROFILE
STA 634+00 – 642+00

HORZ. SCALE 1"=30'
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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

ROAD PROFILES
SHEET 18

SHEET NUMBER

C-218

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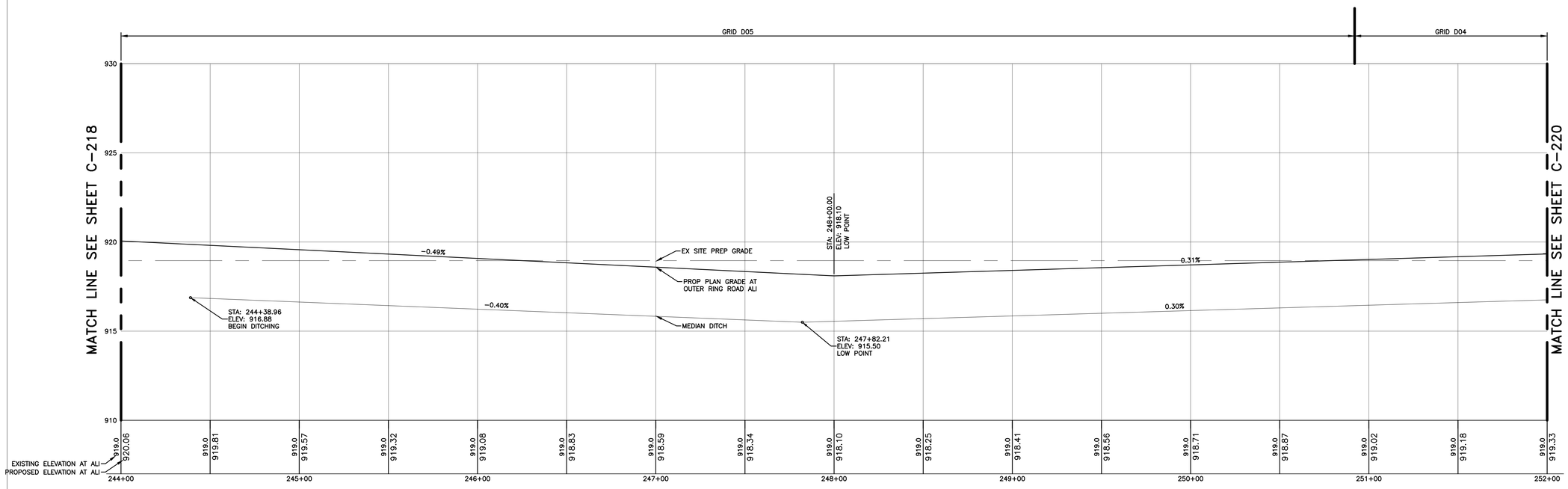
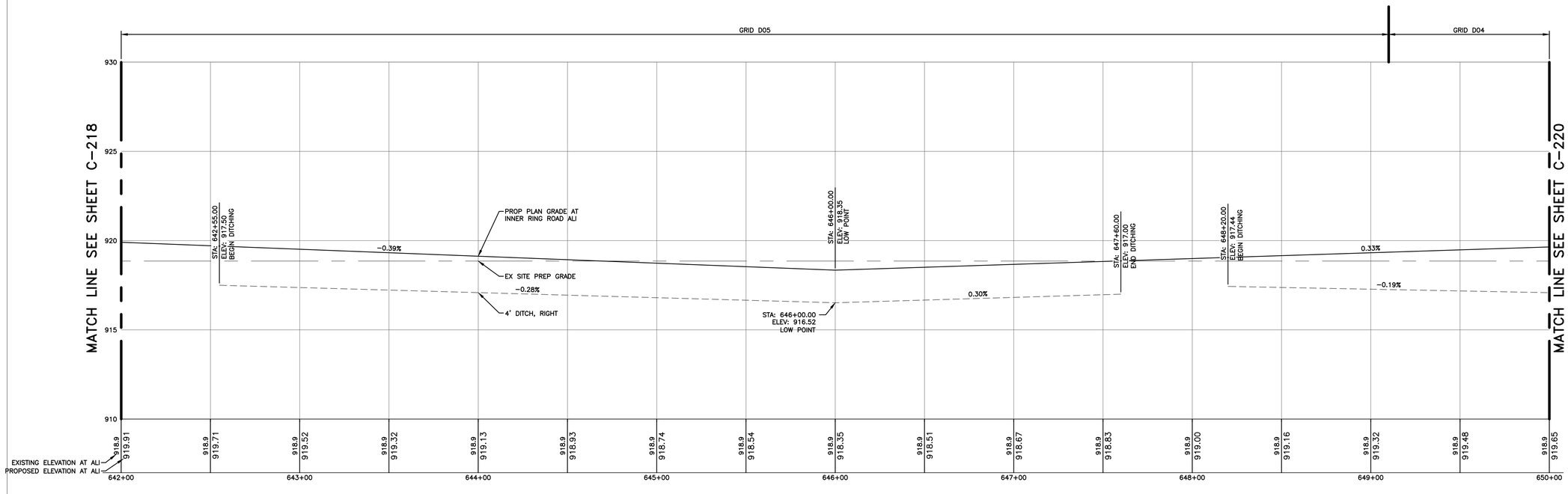


OUTER RING ROAD
ROAD PROFILE
STA 244+00 – 252+00
HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'



INNER RING ROAD
ROAD PROFILE
STA 642+00 – 650+00
HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'

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USA

BLUE OVAL
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MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE
ROAD PROFILES
SHEET 19

SHEET NUMBER
C-219

PLOT DATE: 9/22/2023 7:50:04 AM SAVE DATE: 8/2023 9:18:00 AM DEVADASAN, MALU C:\Users\mdevadasan\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\2000000-C-PLTS-ROAD PROFILES 2-A22-WADE.dwg

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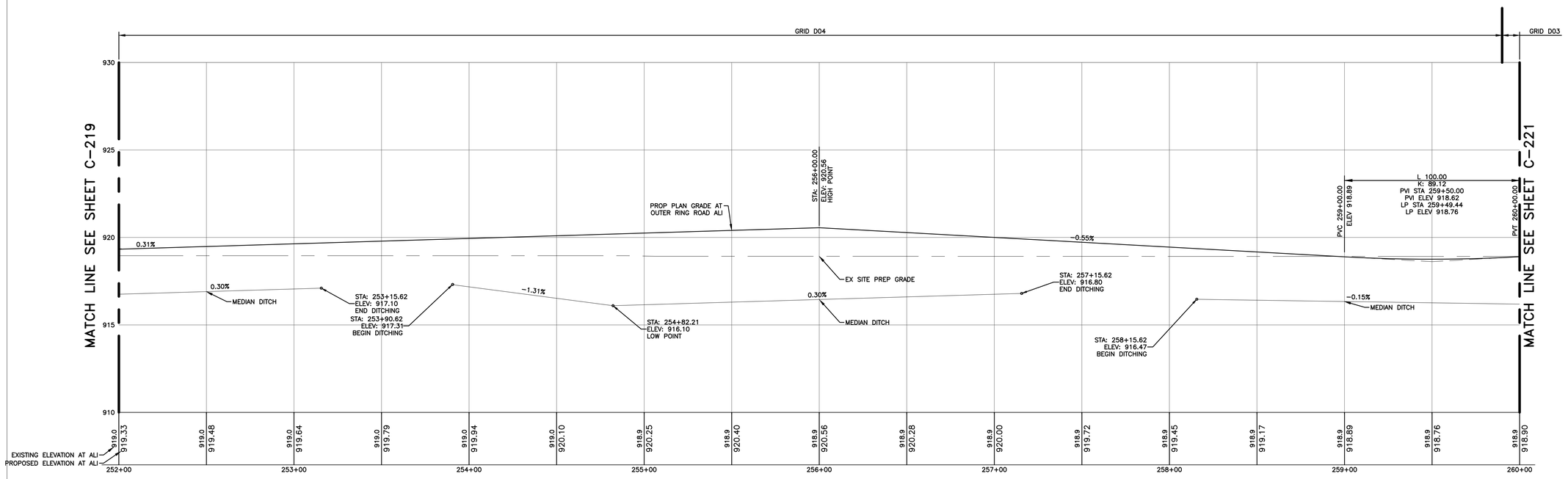
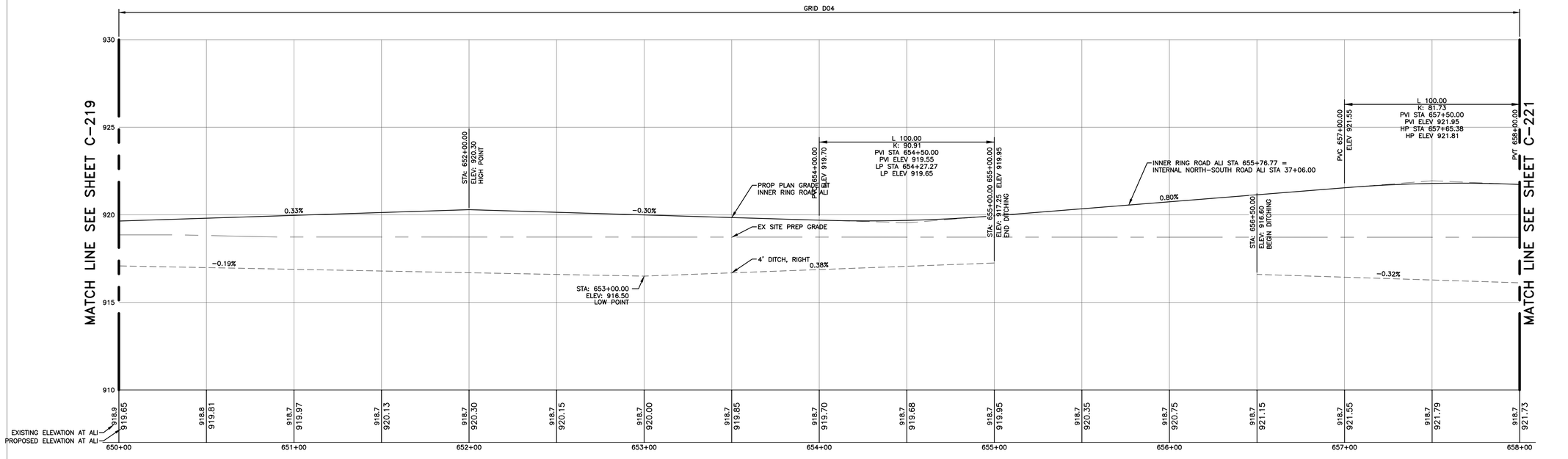


OUTER RING ROAD
ROAD PROFILE
STA 252+00 – 260+00

HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'



INNER RING ROAD
ROAD PROFILE
STA 650+00 – 658+00

HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'

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USA

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BATTERY PLANT

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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

ROAD PROFILES
SHEET 20

SHEET NUMBER

C-220

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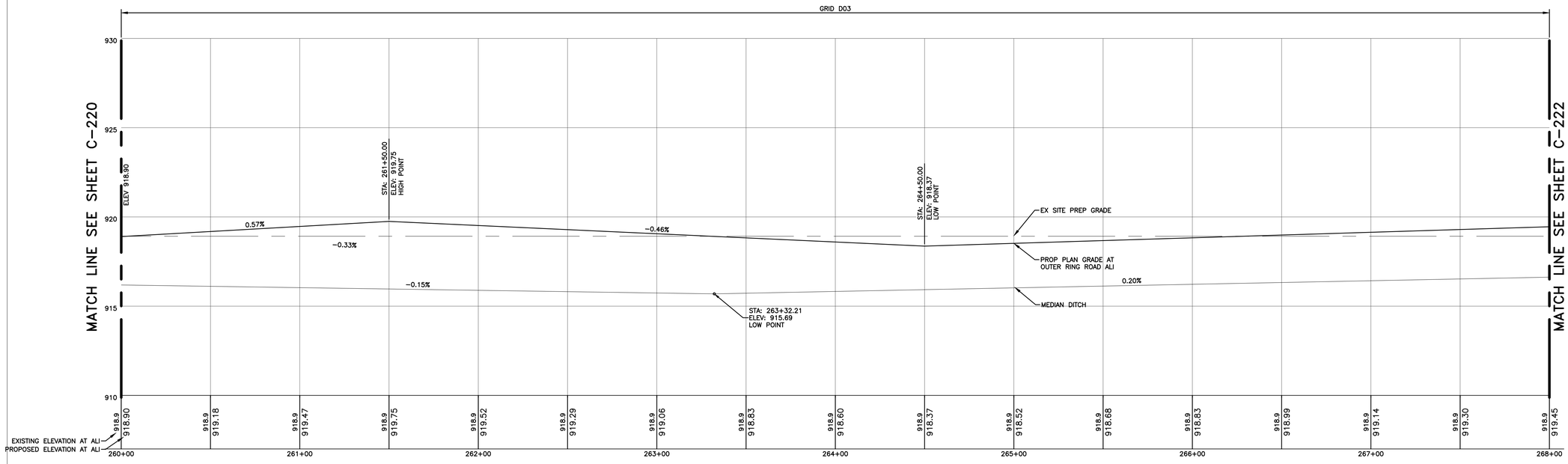
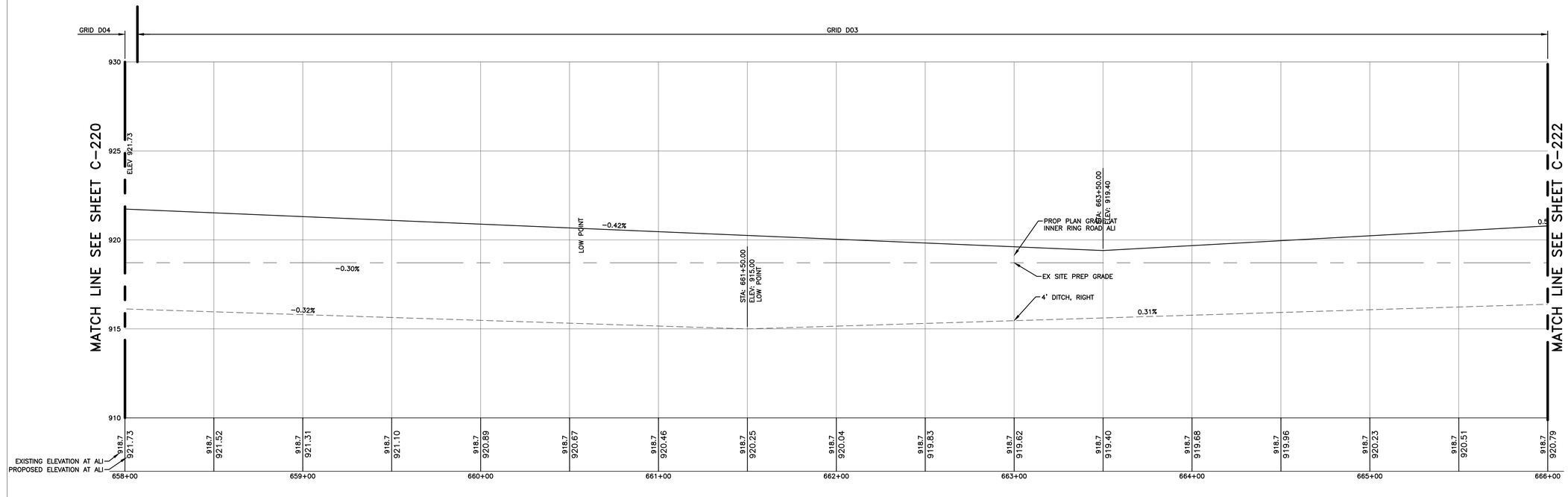


OUTER RING ROAD
ROAD PROFILE
STA 260+00 – 268+00
HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'



INNER RING ROAD
ROAD PROFILE
STA 658+00 – 666+00
HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'

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USA

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MICHIGAN

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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE
ROAD PROFILES
SHEET 21

SHEET NUMBER
C-221

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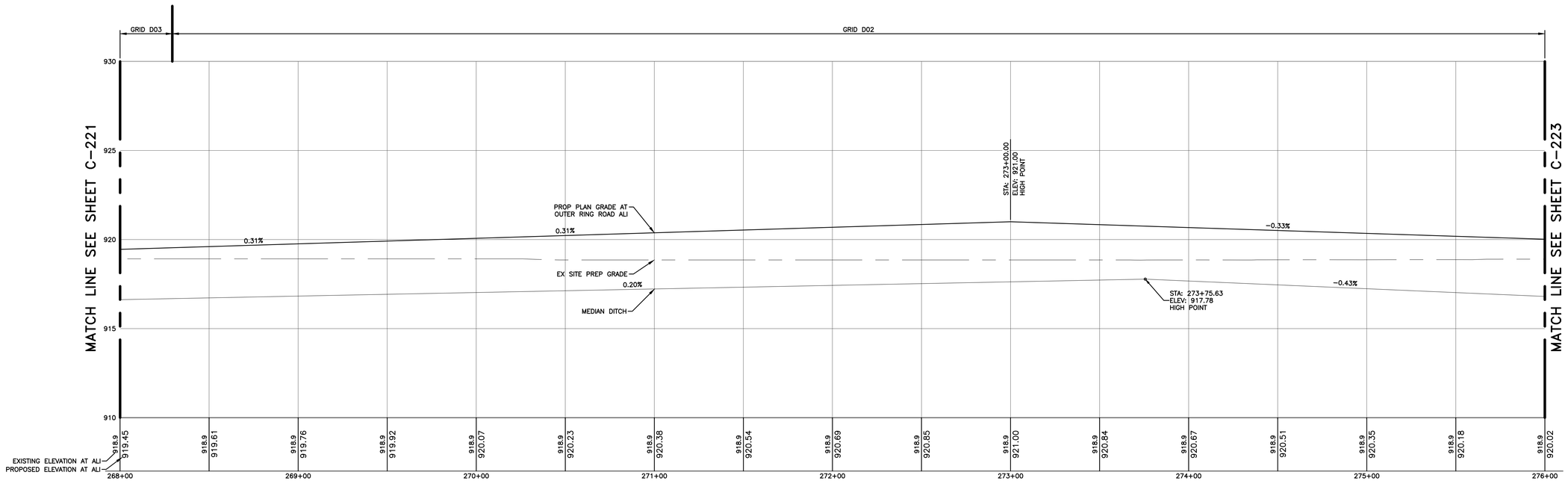
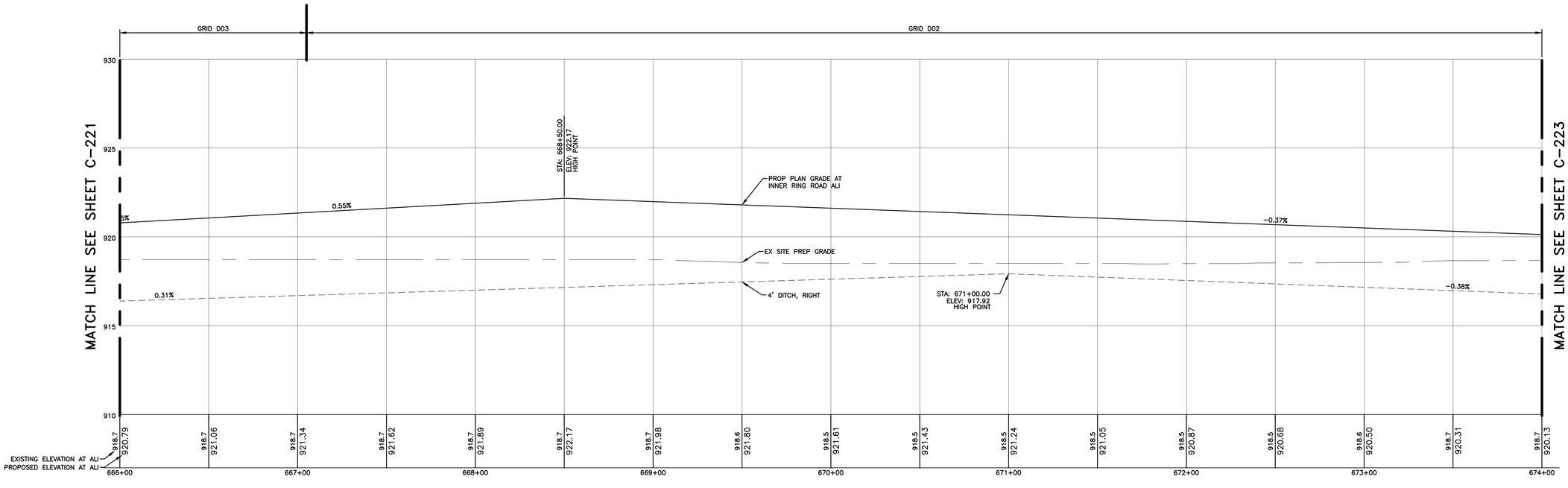


OUTER RING ROAD
ROAD PROFILE
STA 268+00 – 276+00

HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'



INNER RING ROAD
ROAD PROFILE
STA 666+00 – 674+00

HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'

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USA

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BATTERY PLANT

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FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

ROAD PROFILES
SHEET 22

SHEET NUMBER

C-222

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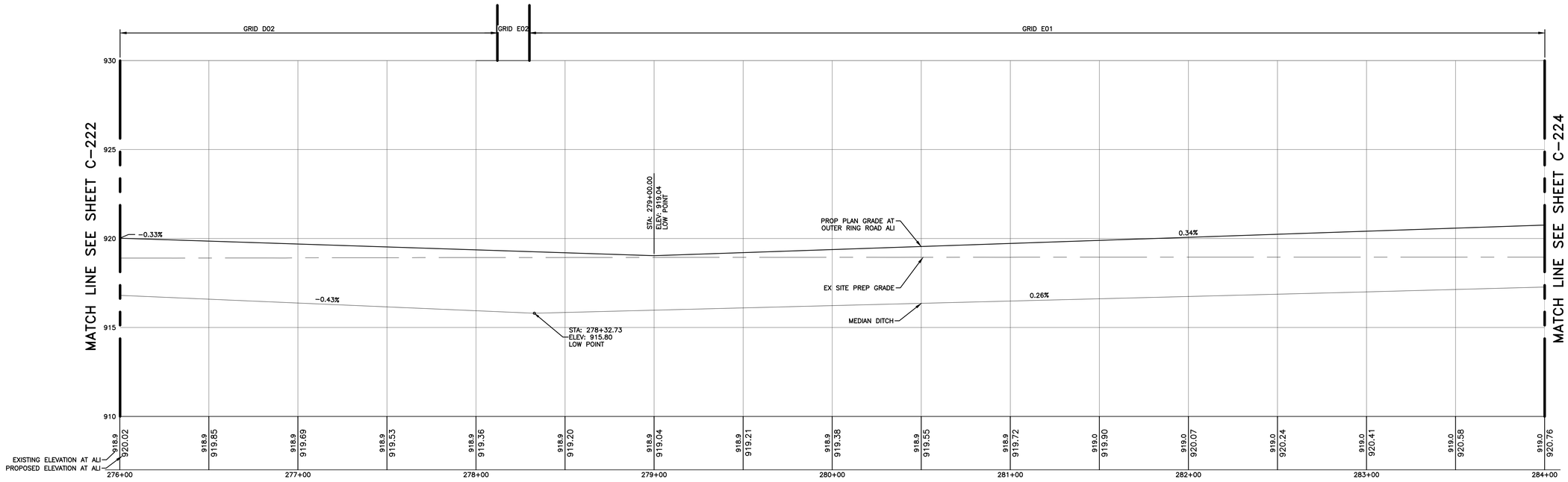
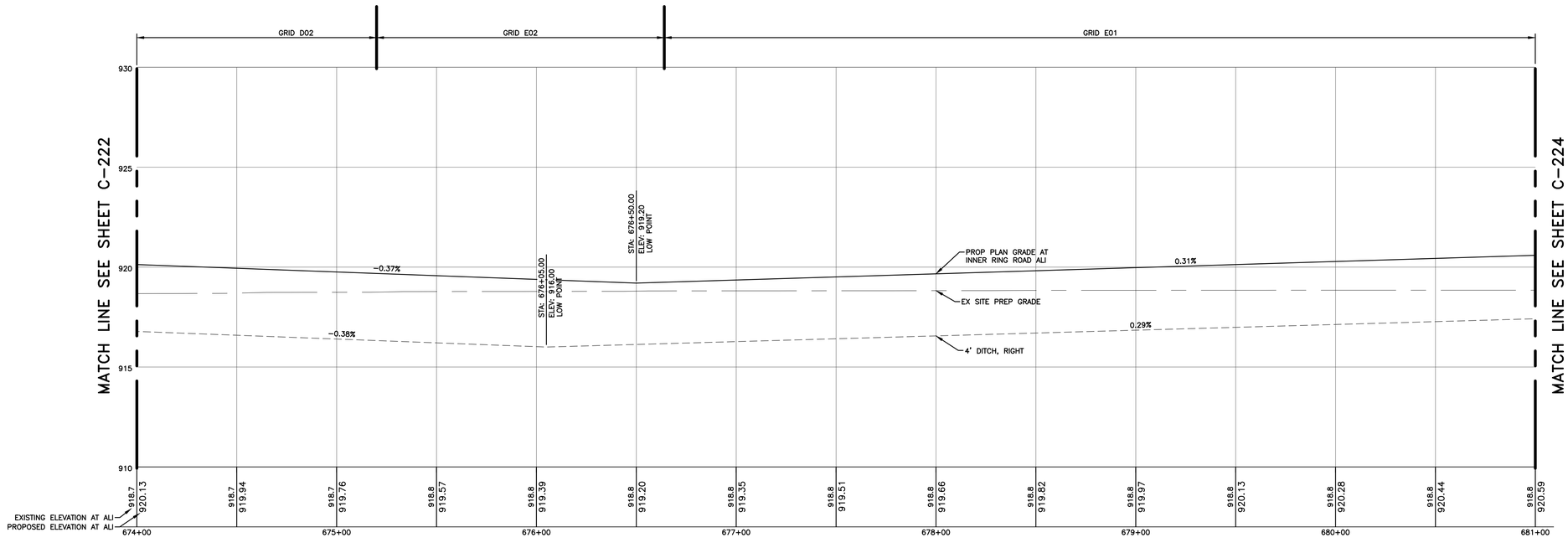


OUTER RING ROAD
ROAD PROFILE
STA 276+00 – 284+00
HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'



INNER RING ROAD
ROAD PROFILE
STA 674+00 – 681+00
HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'

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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE
ROAD PROFILES
SHEET 23

SHEET NUMBER
C-223

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ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

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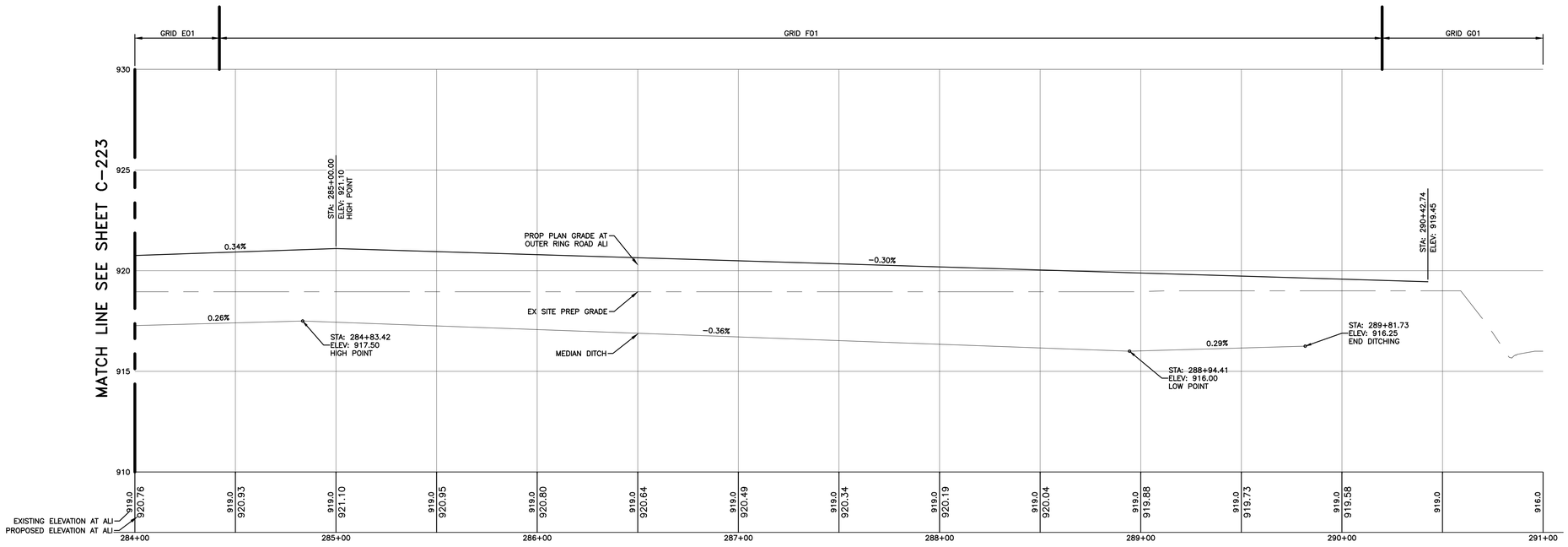
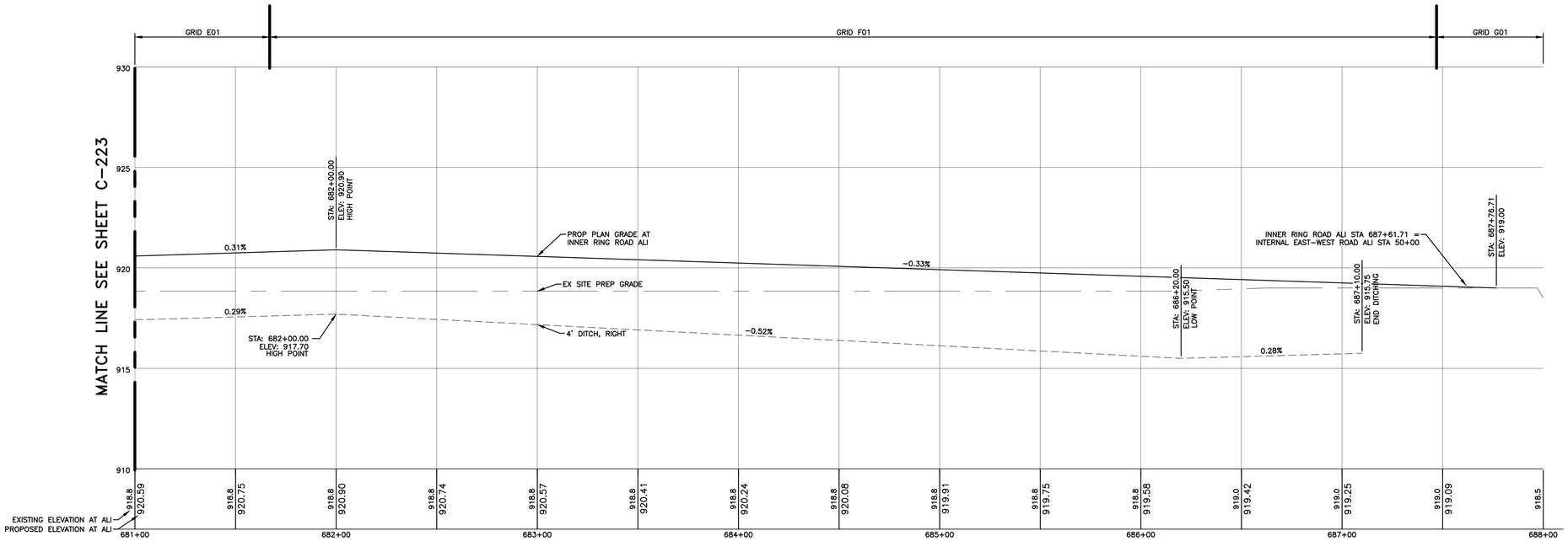


OUTER RING ROAD
ROAD PROFILE
STA 284+00 – 291+00

HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'



INNER RING ROAD
ROAD PROFILE
STA 681+00 – 688+00

HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'

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USA

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FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

ROAD PROFILES
SHEET 24

SHEET NUMBER

C-224

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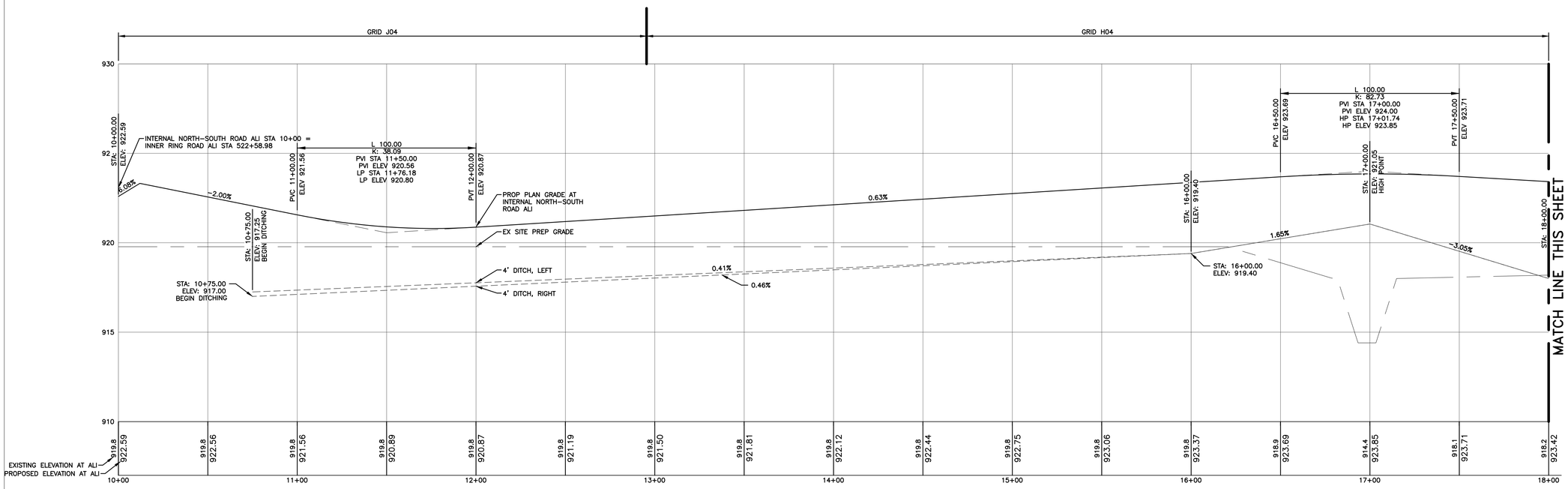
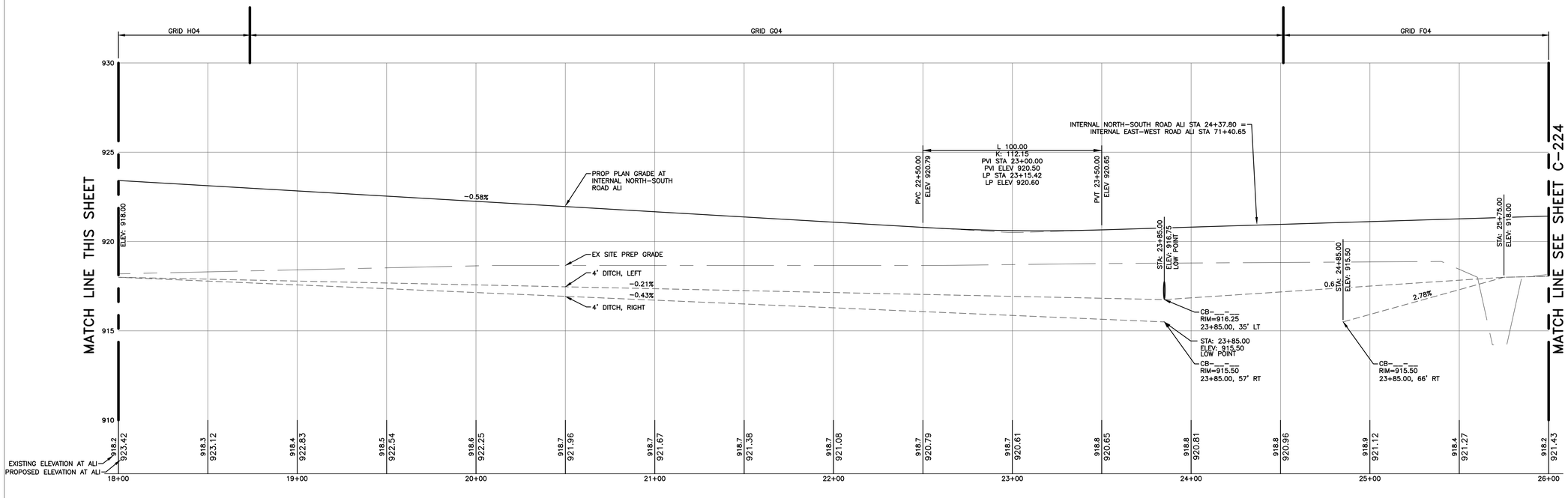


INTERNAL NORTH-SOUTH ROAD
ROAD PROFILE
STA 10+00 - 18+00

HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'



INTERNAL NORTH-SOUTH ROAD
ROAD PROFILE
STA 18+00 - 26+00

HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'

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LICENSED PROFESSIONAL ENGINEER

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USA

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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

ROAD PROFILES
SHEET 25

SHEET NUMBER

C-225

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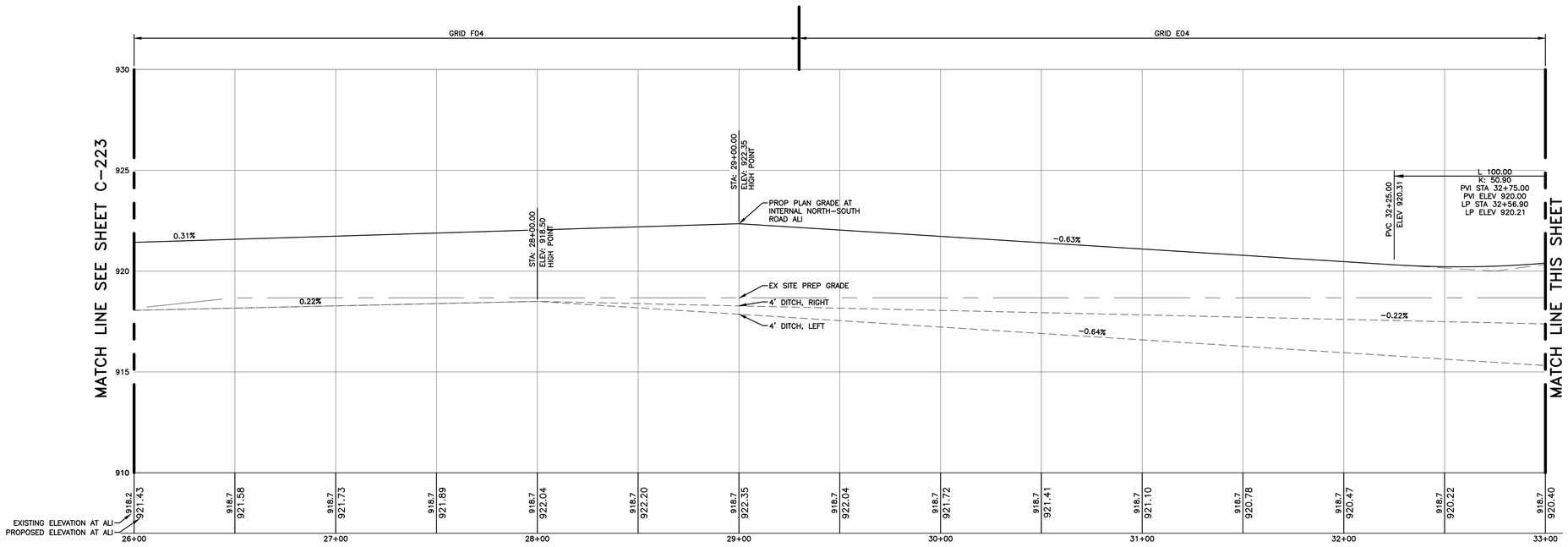
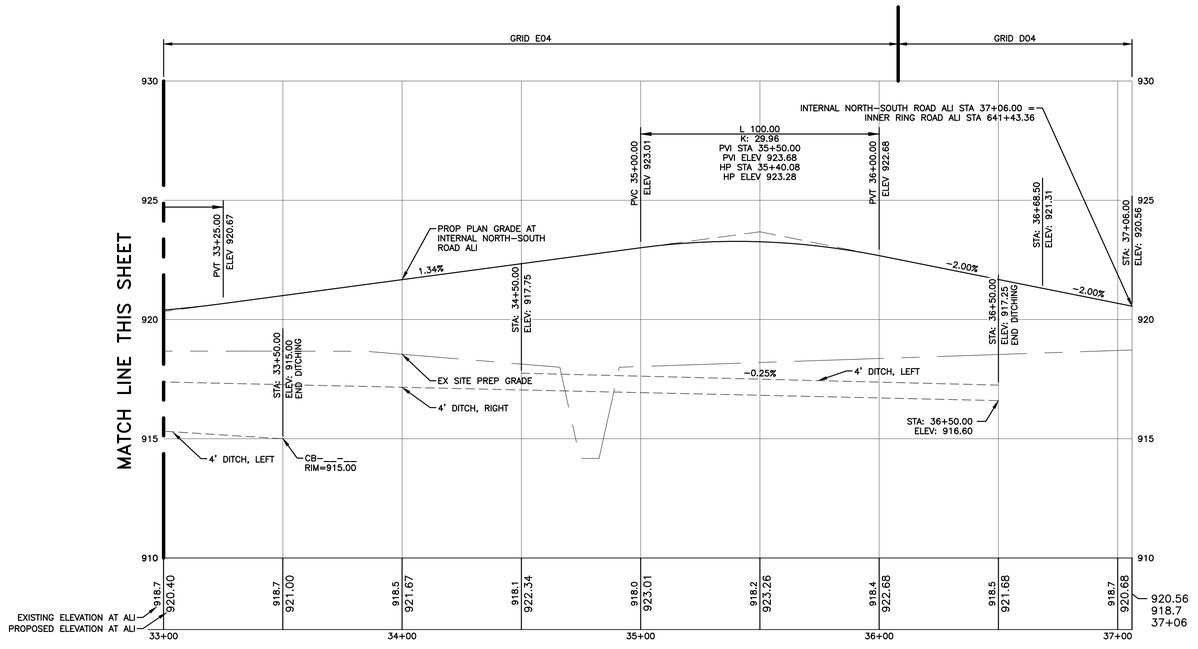


INTERNAL NORTH-SOUTH ROAD
ROAD PROFILE
STA 26+00 - 33+00

HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'



INTERNAL NORTH-SOUTH ROAD
ROAD PROFILE
STA 33+00 - 37+06

HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'

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BATTERY PLANT

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FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

ROAD PROFILES
SHEET 26

SHEET NUMBER

C-226

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

PLOT DATE: 9/22/2023 7:51:42 AM SAVE DATE: 9/8/2023 3:35:09 PM DEVADASAN, MALU
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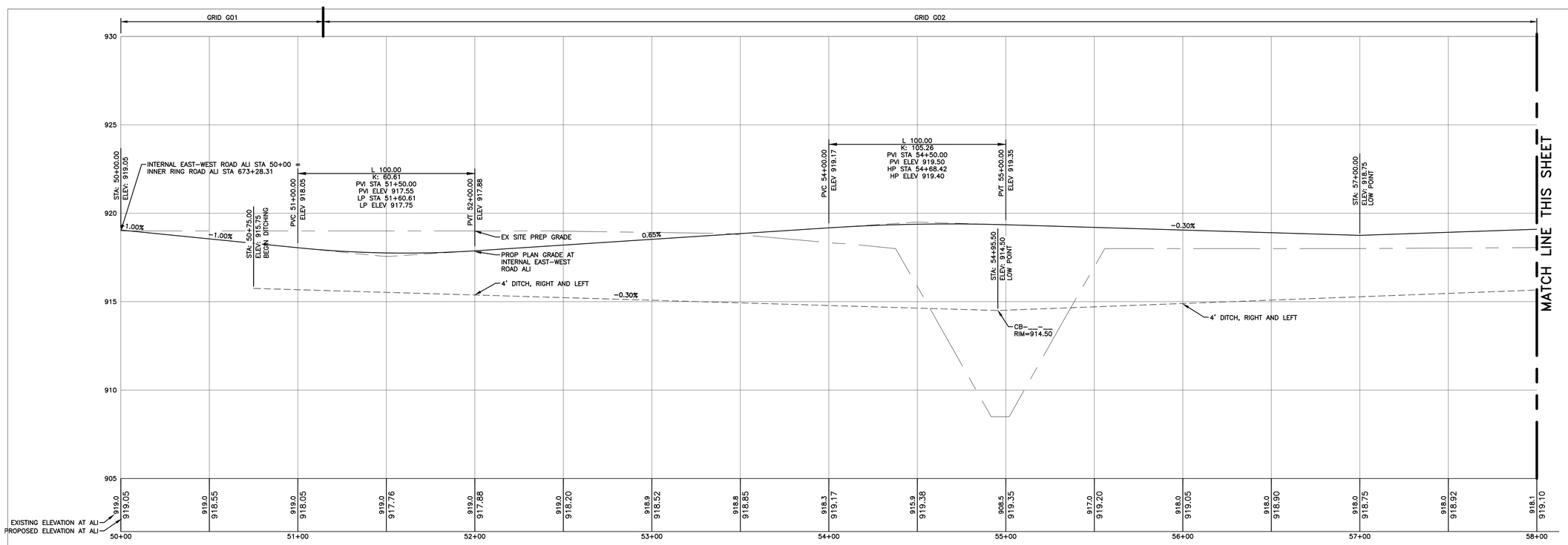
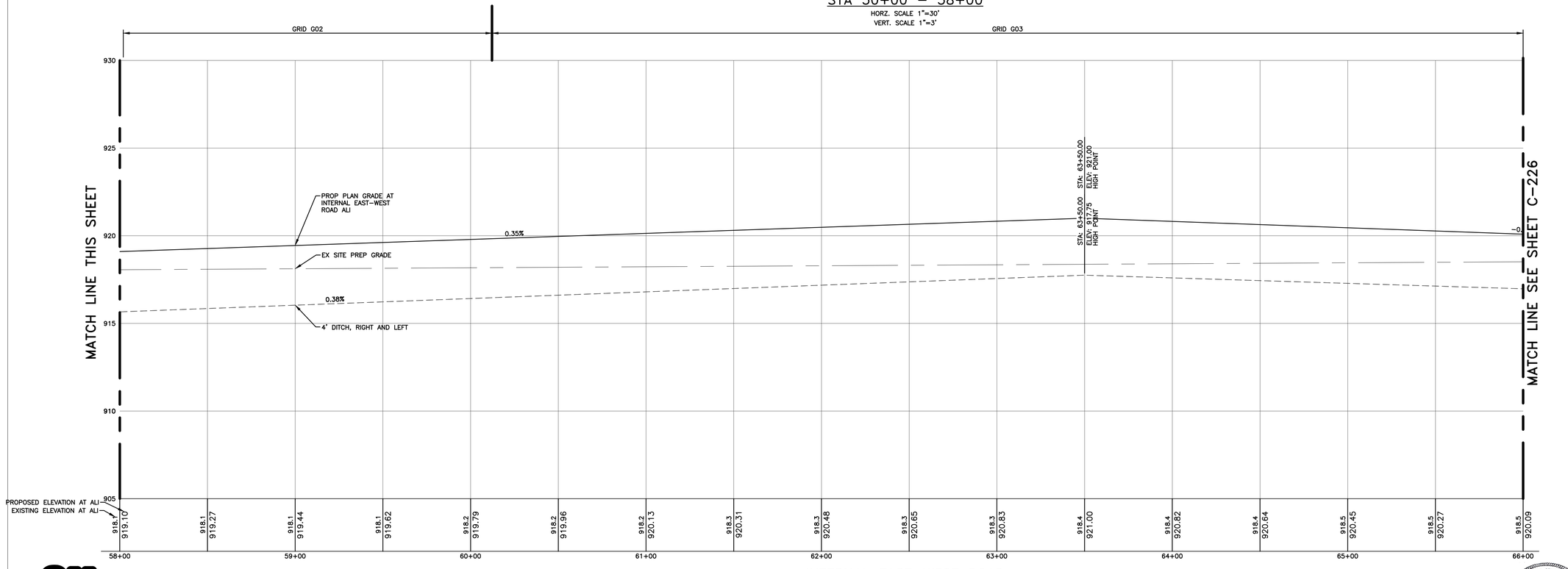


INTERNAL EAST-WEST ROAD
ROAD PROFILE
STA 50+00 - 58+00

HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'



INTERNAL EAST-WEST ROAD
ROAD PROFILE
STA 58+00 - 66+00

HORZ. SCALE 1"=30'
VERT. SCALE 1"=3'

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USA

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BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

ROAD PROFILES
SHEET 27

SHEET NUMBER

C-227

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

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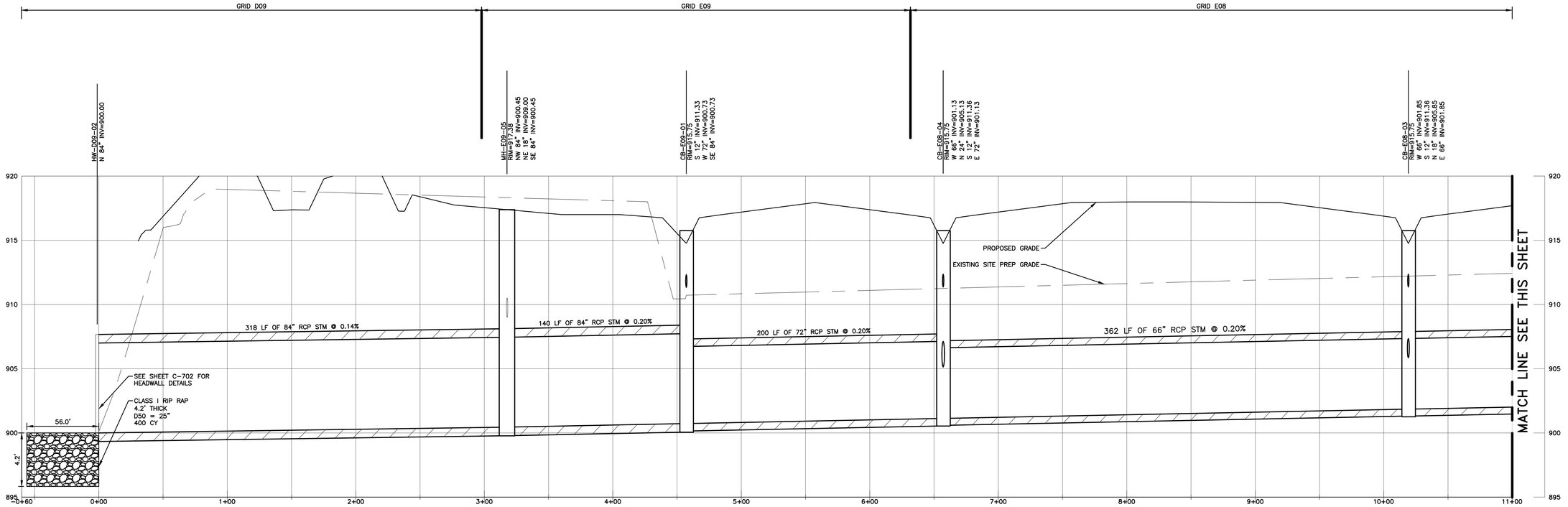
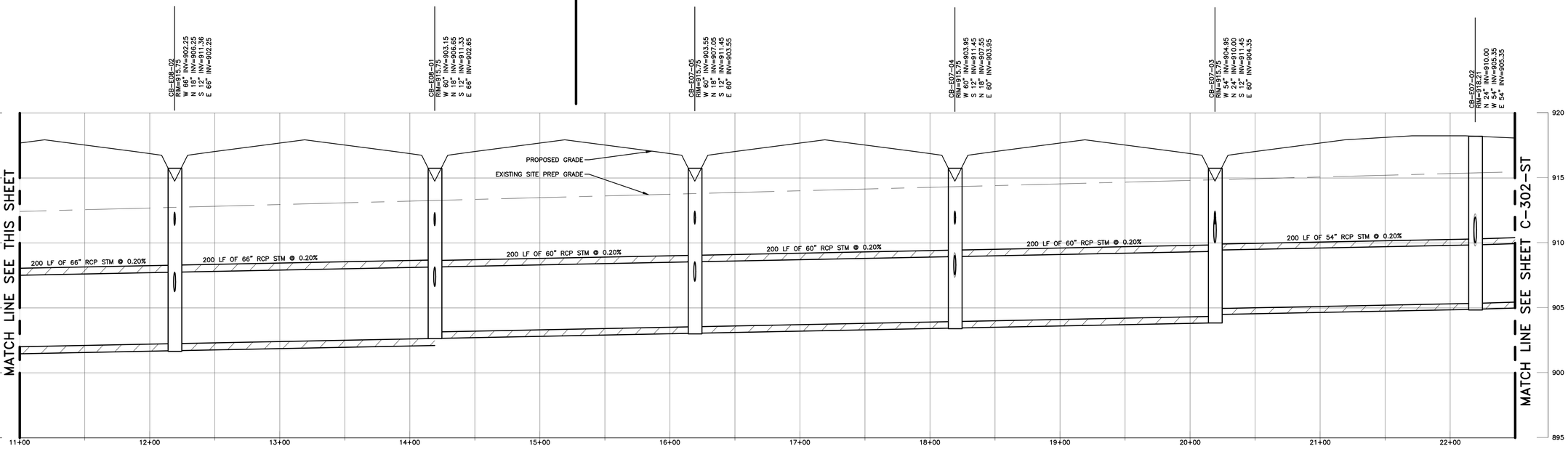


STORM PROFILE 1A
STA 0+00 – 11+00

HORZ. SCALE 1"=40'
VERT. SCALE 1"=4'



STORM PROFILE 1B
STA 11+00 – 22+50

HORZ. SCALE 1"=40'
VERT. SCALE 1"=4'

NOTE:
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STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

40 20 0 40 80
SCALE IN FEET

FORDLAND
17000 ROTUNDA DR, 1ST FLOOR SOUTH
DEARBORN, MICHIGAN 48120-1168
USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE
PROFILE SHEET 1
UTILITY

SHEET NUMBER
C-301-ST

PLOT DATE: 9/22/2023 7:54:36 AM SAVE DATE: 9/12/2023 3:26:31 PM DEVADASAN, MALU C:\Users\mdevadasan\DCACDocs\Wade Trim\FIDS011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\250000-C-PLT-STRM PROFILES-ANSI-B.dwg

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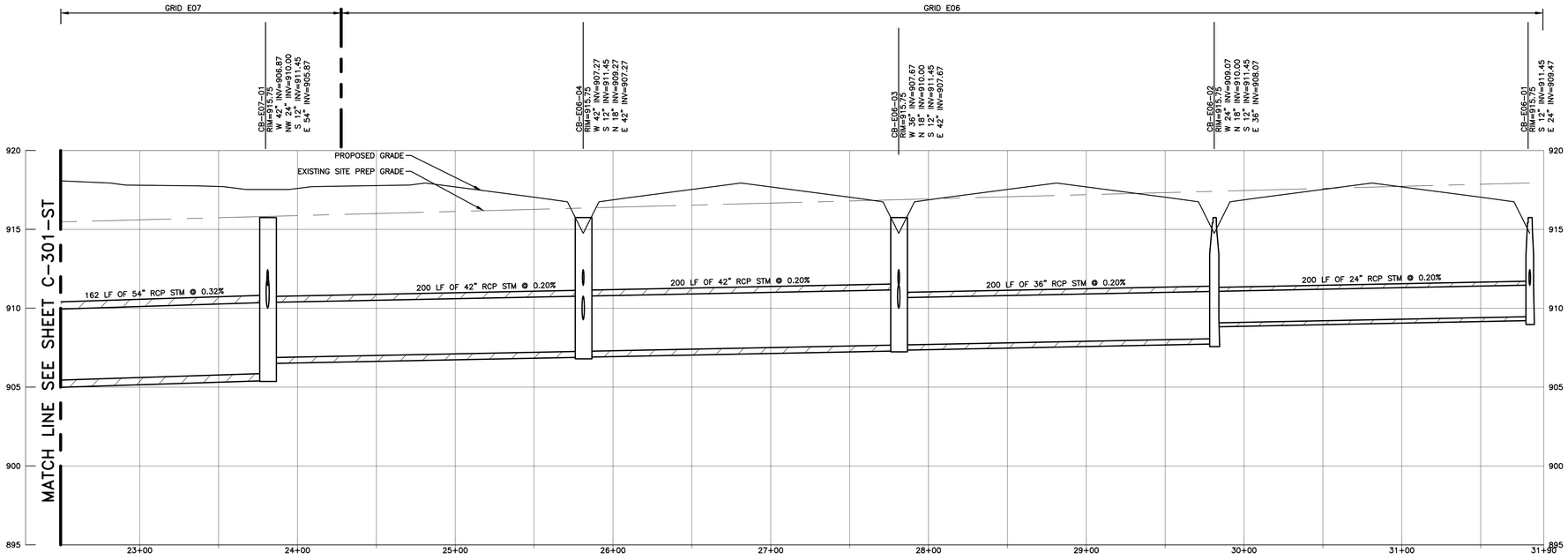
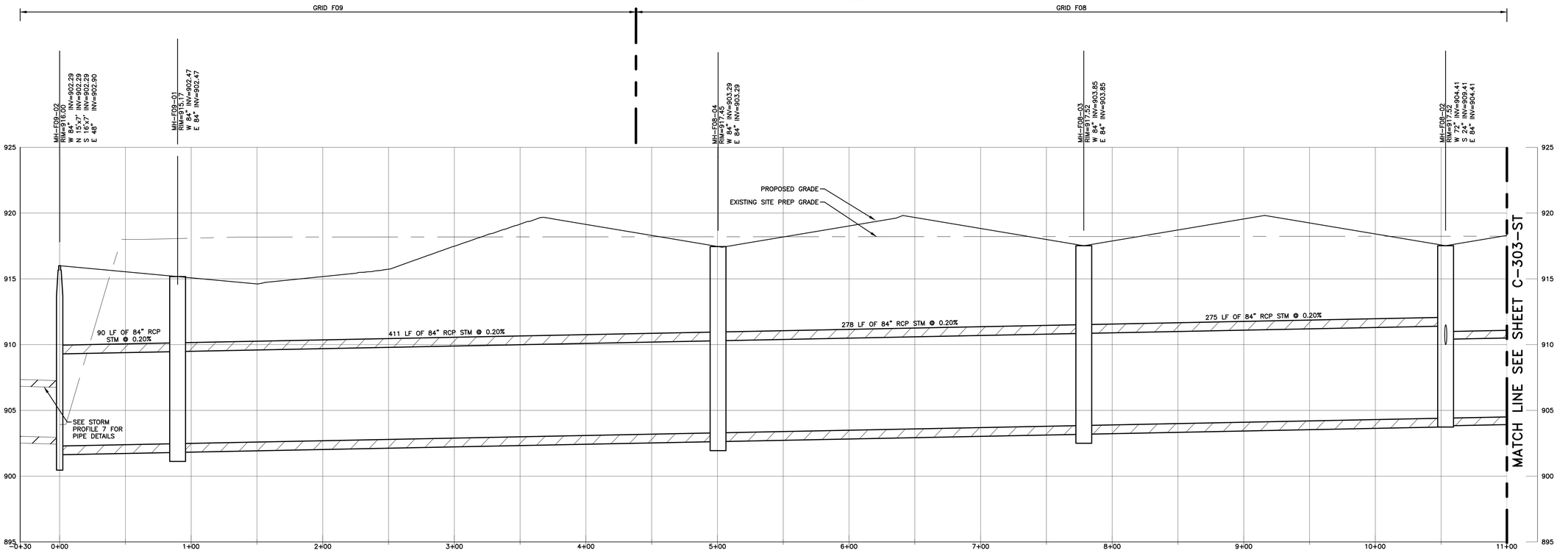


STORM PROFILE 1C
STA 22+50 – 31+90
HORZ. SCALE 1"=40'
VERT. SCALE 1"=4'



STORM PROFILE 2A
STA 0+00 – 11+00
HORZ. SCALE 1"=40'
VERT. SCALE 1"=4'

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STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
REGISTERED PROFESSIONAL ENGINEER

40 20 0 40 80
SCALE IN FEET

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USA

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
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DESIGNED BY:	S. DODSON
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APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE
PROFILE SHEET 2
UTILITY

SHEET NUMBER
C-302-ST

PLOT DATE: 9/22/2023 7:55:13 AM
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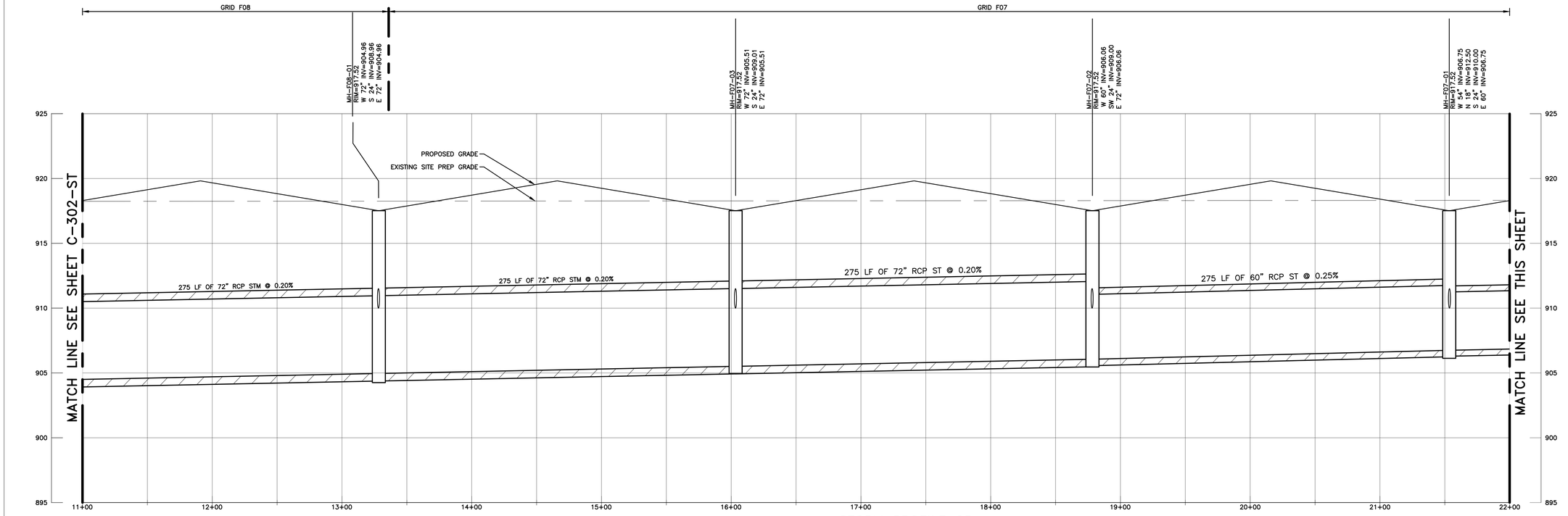
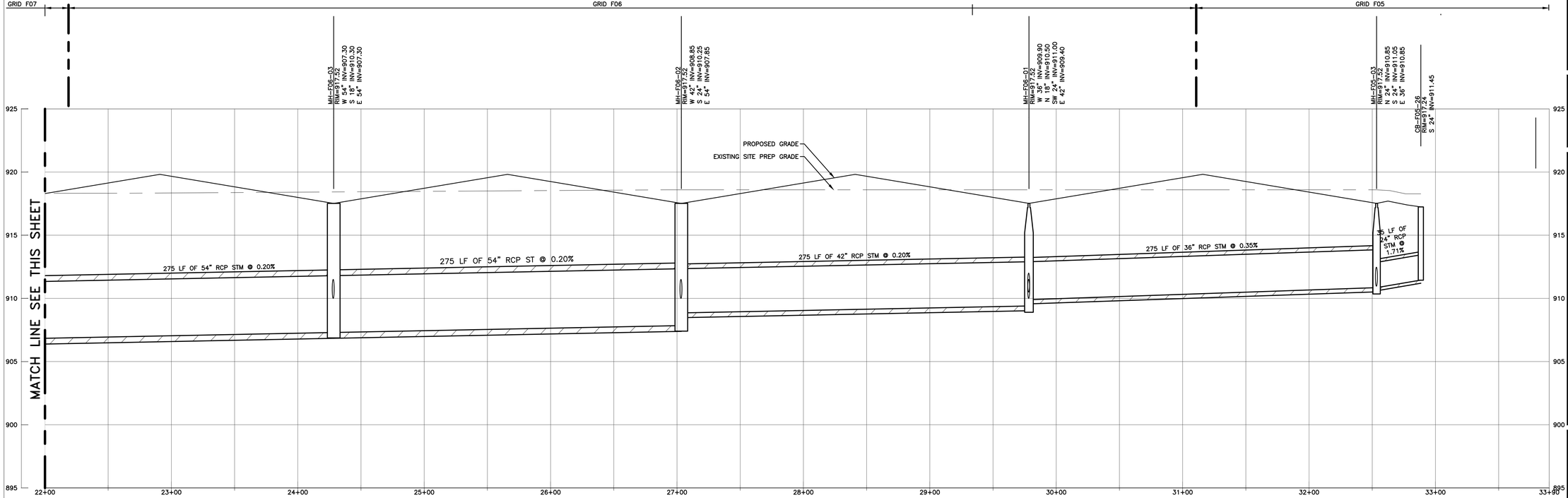


STORM PROFILE 2B
STA 11+00 – 22+00
HORZ. SCALE 1"=40'
VERT. SCALE 1"=4'



STORM PROFILE 2C
STA 22+00 – 32+90
HORZ. SCALE 1"=40'
VERT. SCALE 1"=4'

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NO. 45607
LICENSED PROFESSIONAL ENGINEER

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SCALE IN FEET

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USA

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MICHIGAN
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IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE
PROFILE SHEET 3
UTILITY

SHEET NUMBER
C-303-ST

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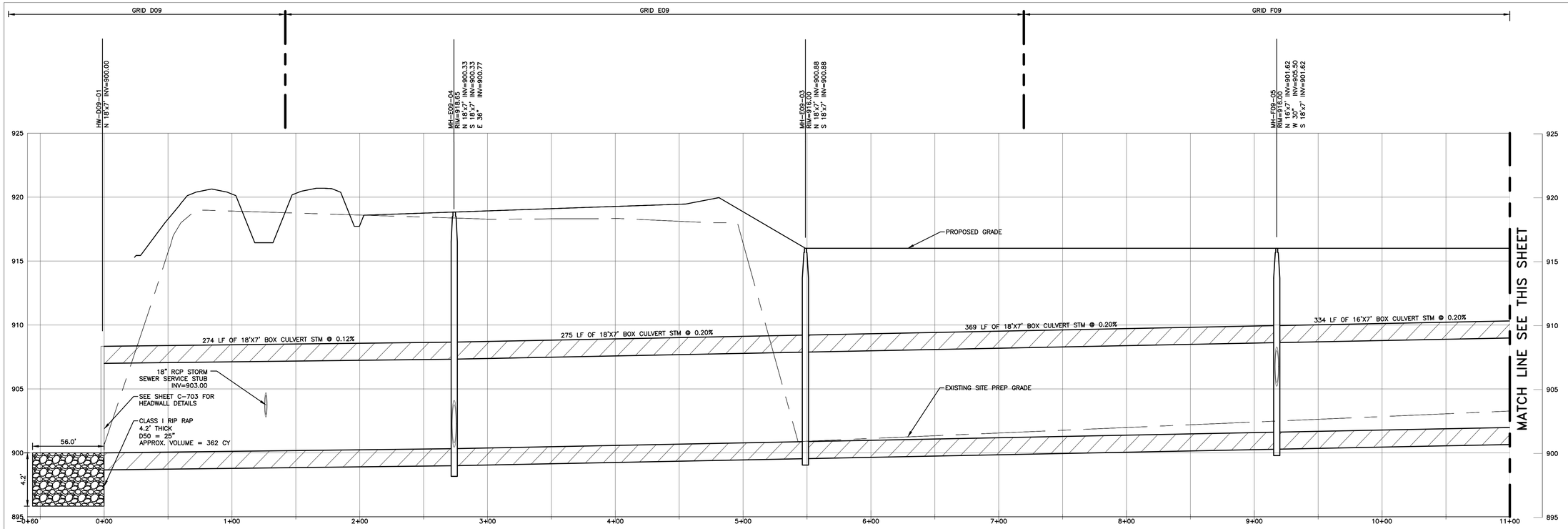
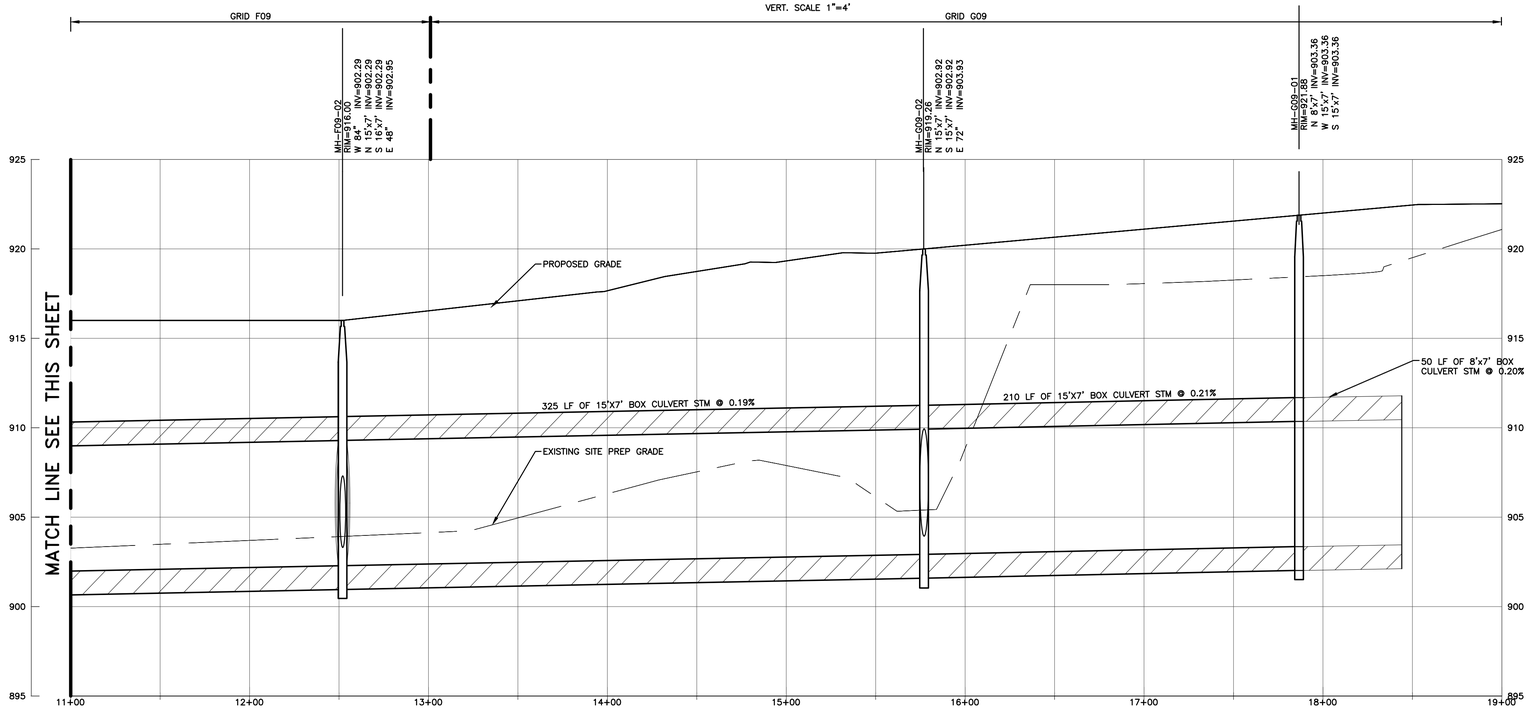


STORM PROFILE 3A
STA 0+00 – 11+00
HORZ. SCALE 1"=40'
VERT. SCALE 1"=4'



STORM PROFILE 3B
STA 10+00 – 19+00
HORZ. SCALE 1"=40'
VERT. SCALE 1"=4'

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ERICH VINCENT SMITH
ENGINEER
NO. 45667
REGISTERED PROFESSIONAL ENGINEER

40 20 0 40 80
SCALE IN FEET

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DEARBORN, MICHIGAN 48120-1168
USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE
PROFILE SHEET 4
UTILITY

SHEET NUMBER
C-304-ST

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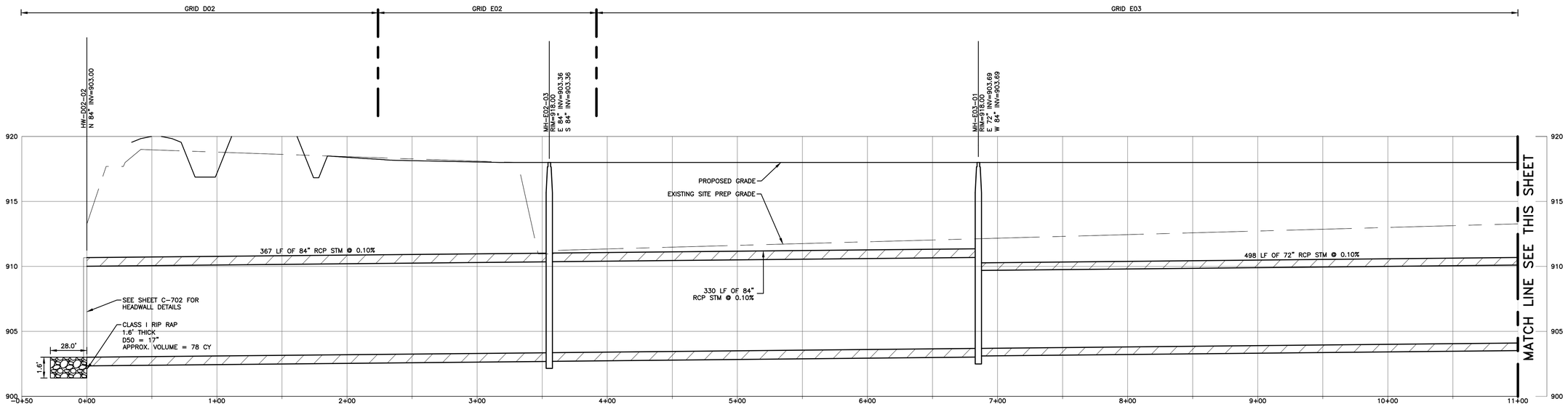
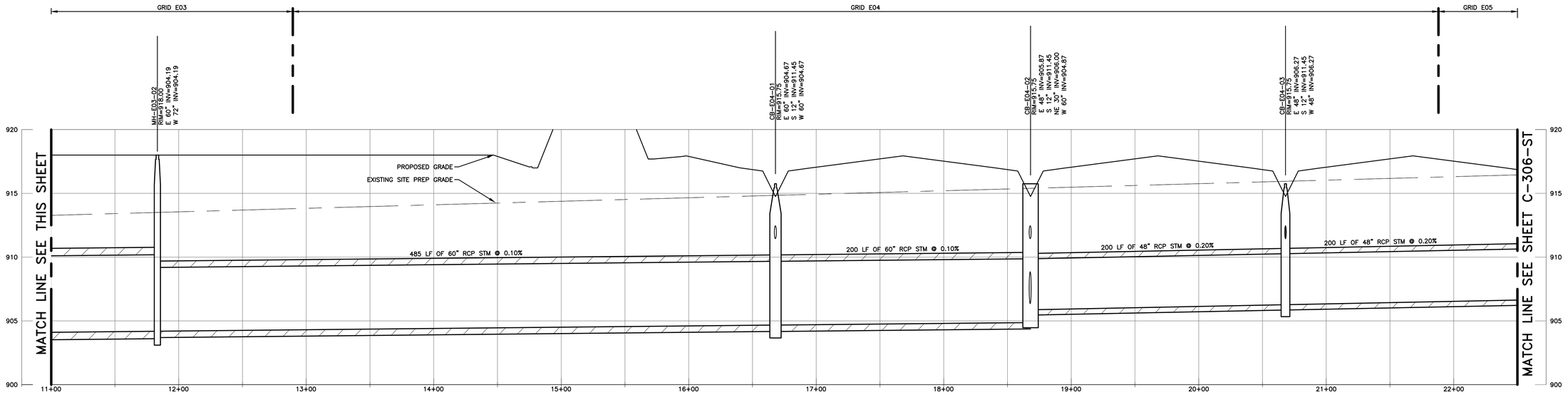


STORM PROFILE 4A
STA 0+00 – 11+00
HORZ. SCALE 1"=40'
VERT. SCALE 1"=4'



STORM PROFILE 4B
STA 11+00 – 22+50
HORZ. SCALE 1"=40'
VERT. SCALE 1"=4'

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STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

40 20 0 40 80
SCALE IN FEET

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17000 ROTUNDA DR, 1ST FLOOR SOUTH
DEARBORN, MICHIGAN 48120-1168
USA

BLUE OVAL
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MICHIGAN
BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE
PROFILE SHEET 5
UTILITY

SHEET NUMBER
C-305-ST

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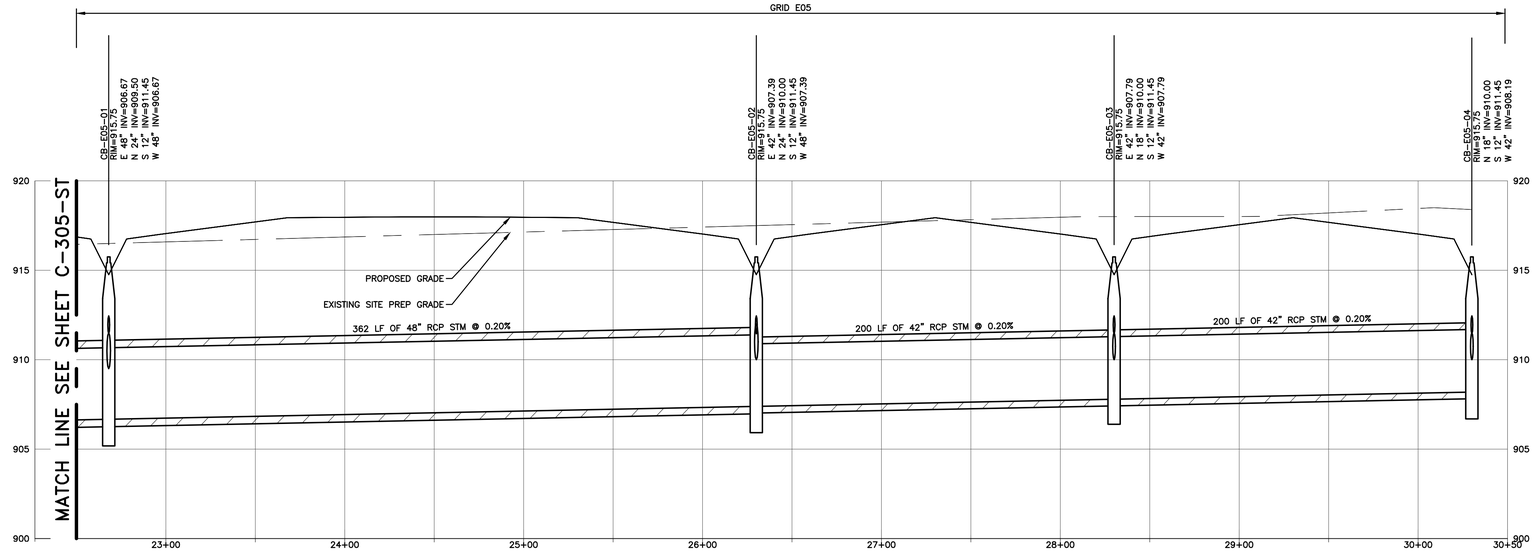
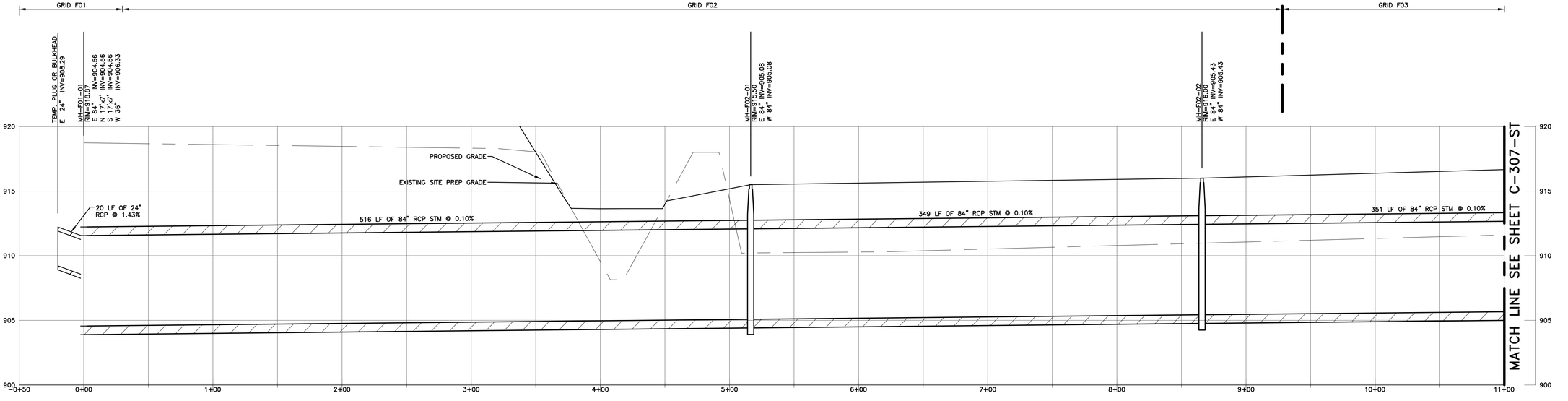


STORM PROFILE 4C
STA 22+50 – 30+50
HORZ. SCALE 1"=40'
VERT. SCALE 1"=4'



STORM PROFILE 5A
STA 0+00 – 11+00
HORZ. SCALE 1"=40'
VERT. SCALE 1"=4'

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NOTE:
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ERICH VINCENT SMITH
ENGINEER
NO. 45667
REGISTERED PROFESSIONAL ENGINEER

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SCALE IN FEET

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IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE
PROFILE SHEET 6
UTILITY

SHEET NUMBER
C-306-ST

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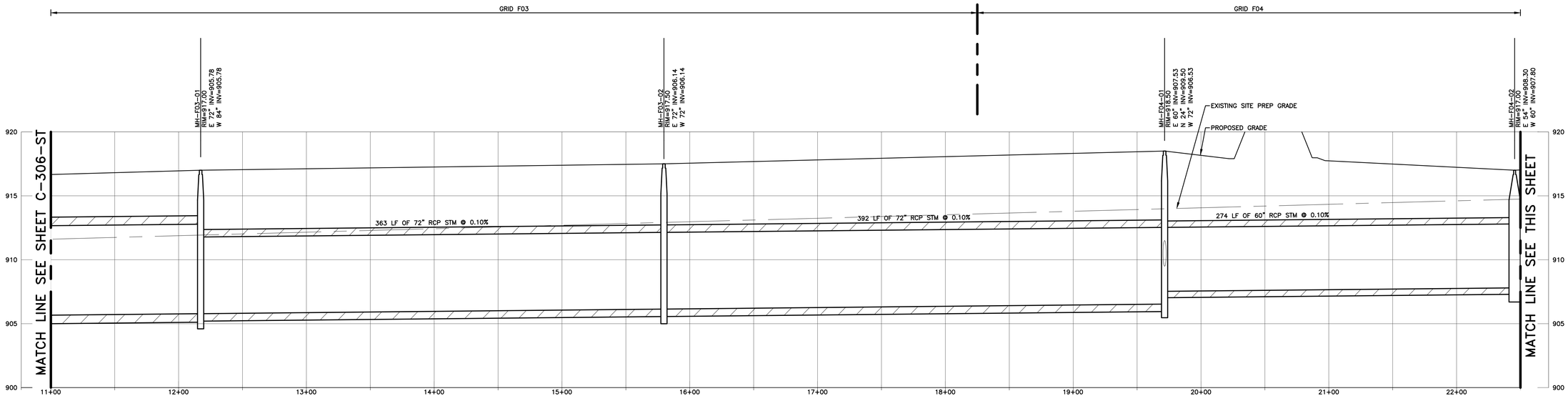
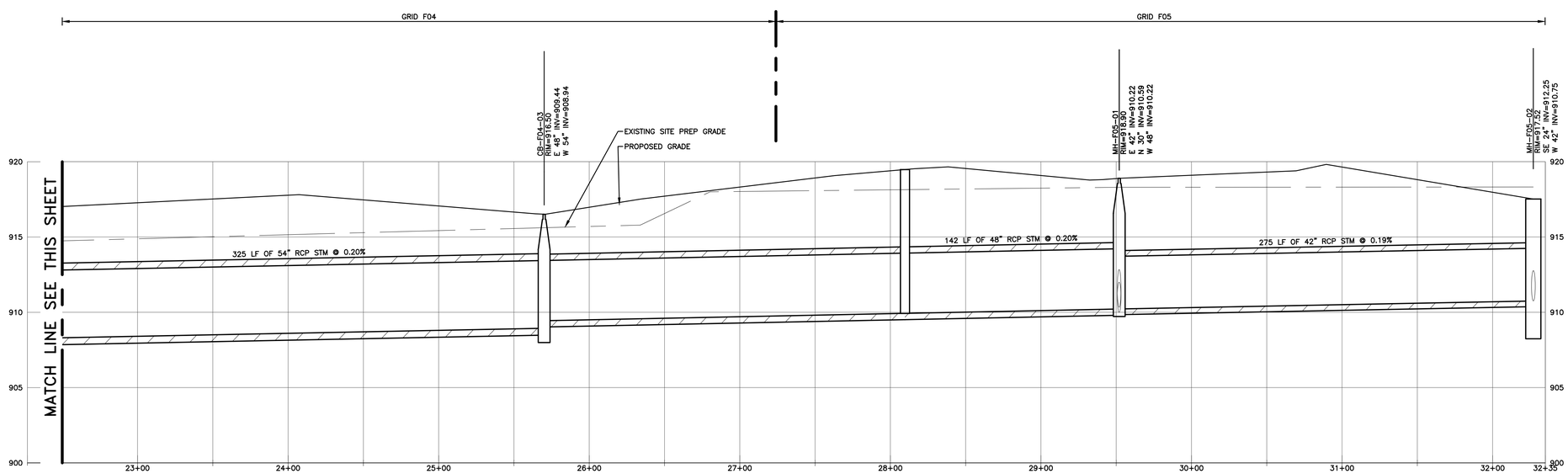


STORM PROFILE 5B
STA 11+00 – 22+50
HORZ. SCALE 1"=40'
VERT. SCALE 1"=4'



STORM PROFILE 5C
STA 22+50 – 32+35
HORZ. SCALE 1"=40'
VERT. SCALE 1"=4'

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DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE
PROFILE SHEET 7
UTILITY

SHEET NUMBER
C-307-ST

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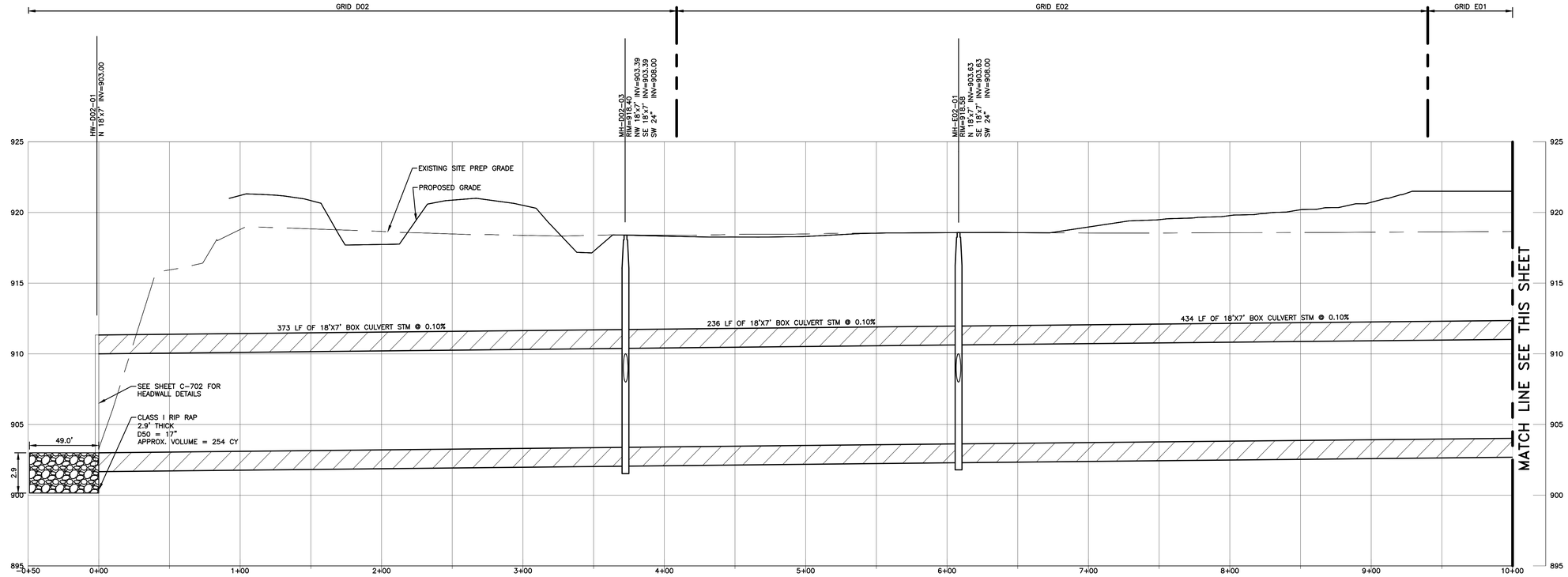
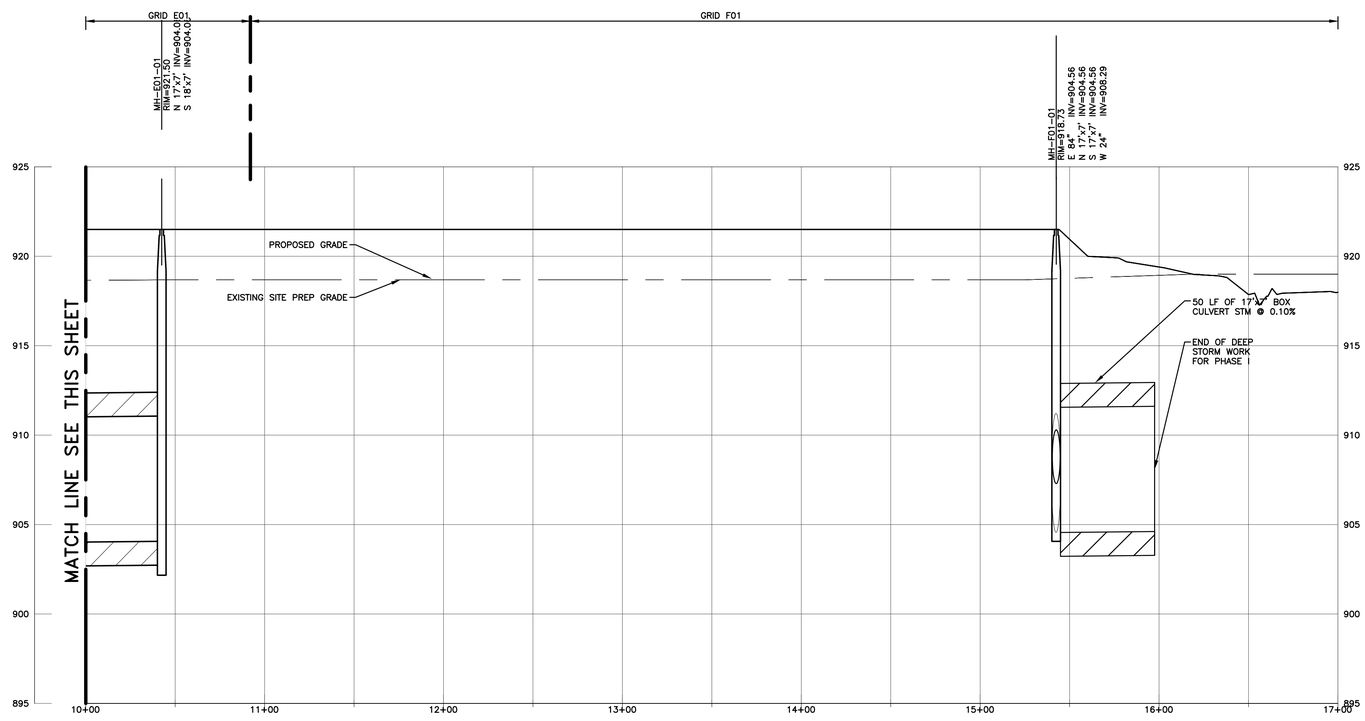


STORM PROFILE 6A
STA 0+00 – 10+00
HORZ. SCALE 1"=40'
VERT. SCALE 1"=4'



STORM PROFILE 6B
STA 10+00 – 17+00
HORZ. SCALE 1"=40'
VERT. SCALE 1"=4'

NOTE:
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DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE
PROFILE SHEET 8
UTILITY

SHEET NUMBER
C-308-ST

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

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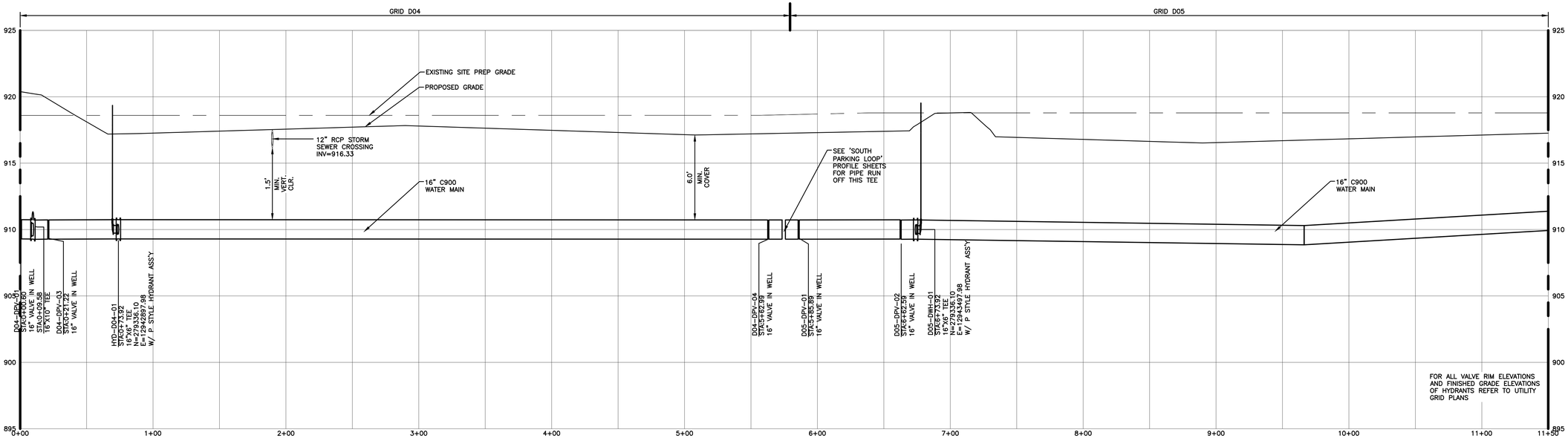
STA 0+00 = STA 198+04 MATCHLINE SEE SHEET C-309-DW

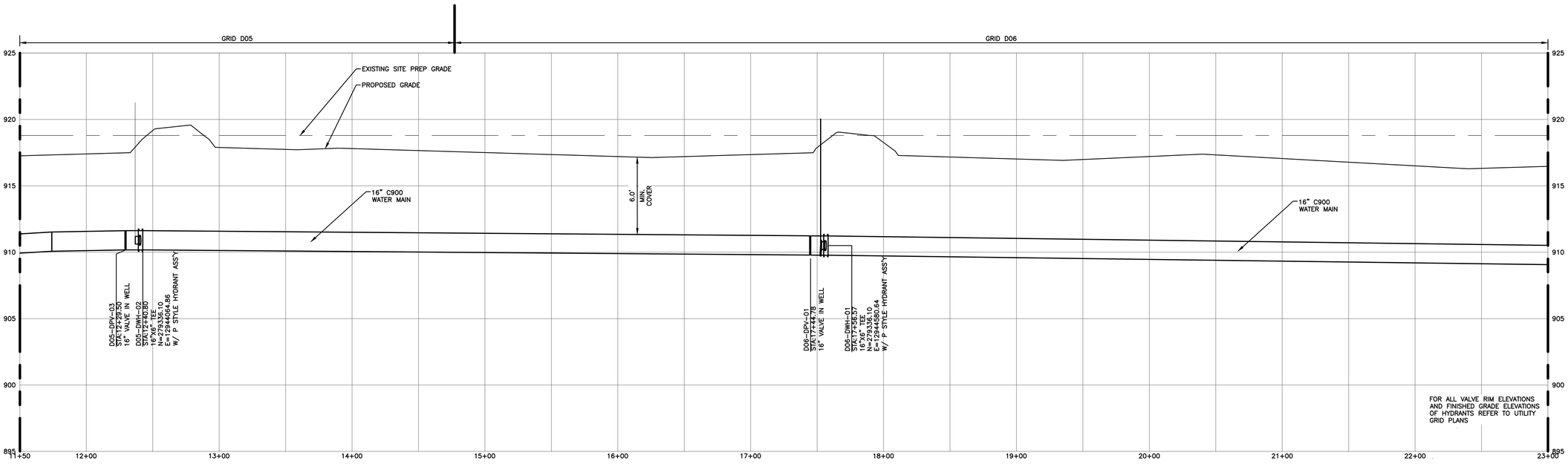


STA 11+50 MATCHLINE SEE SHEET C-301-DW

DOMESTIC WATER PROFILE "A"
STA 0+00 – STA 11+50

HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 4'

STA 11+50 MATCHLINE SEE SHEET C-301-DW



STA 23+00 MATCHLINE SEE SHEET C-302-DW

DOMESTIC WATER PROFILE "B"
STA 11+50 – STA 23+00

HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 4'

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NO. 45667
REGISTERED PROFESSIONAL ENGINEER

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DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PROFILE SHEET 1
DOMESTIC WATER MAIN

SHEET NUMBER

C-301-DW

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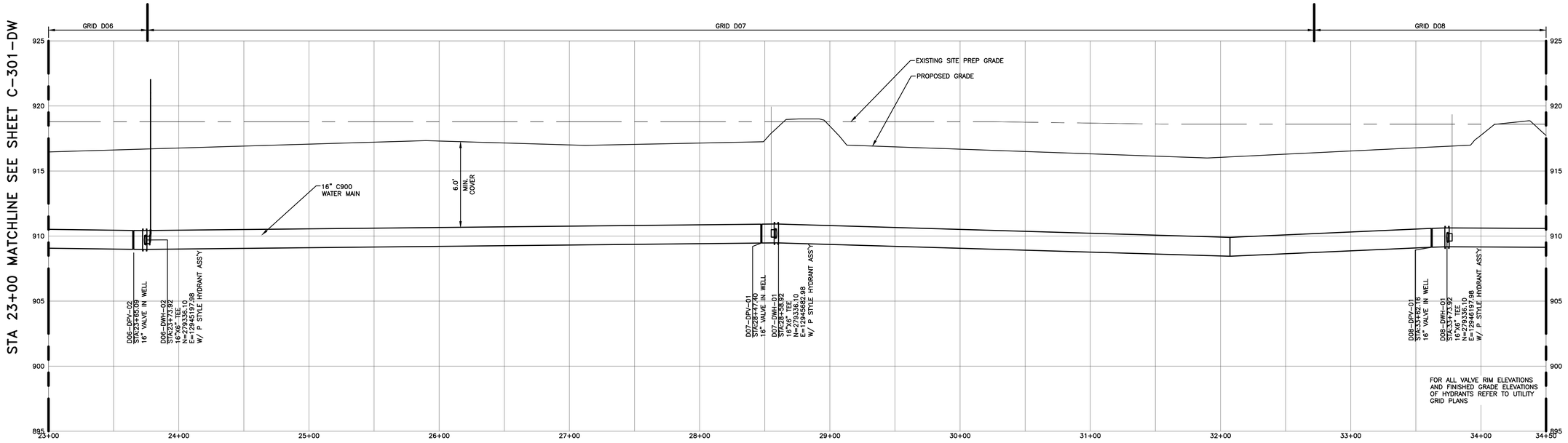
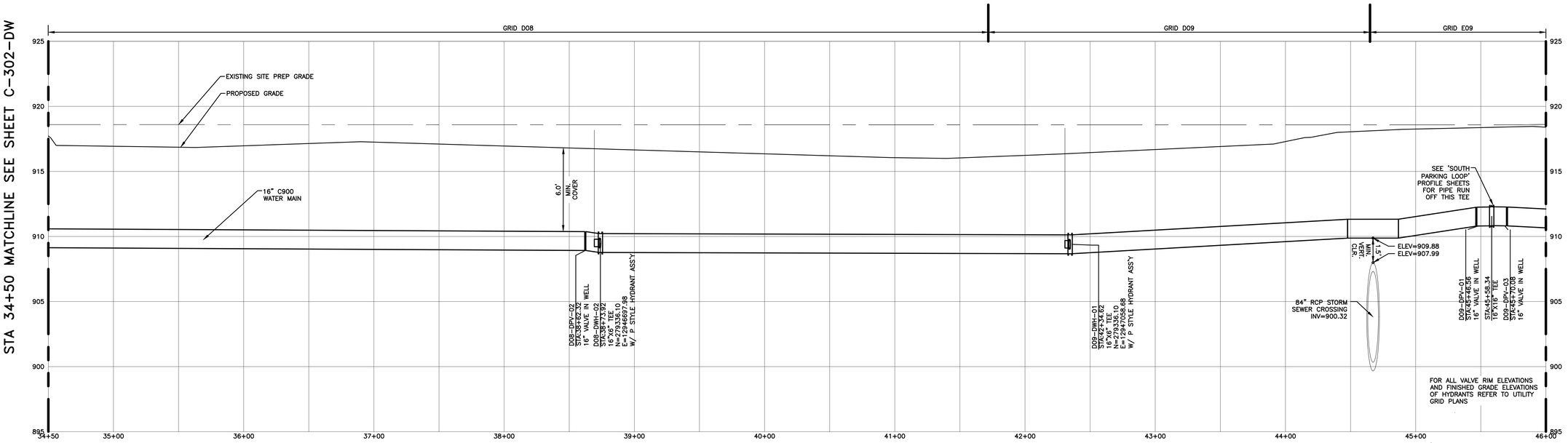


DOMESTIC WATER PROFILE "C"
STA 23+00 – STA 34+50
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 4'



DOMESTIC WATER PROFILE "D"
STA 34+50 – STA 46+00
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 4'

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REGISTERED PROFESSIONAL ENGINEER

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DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PROFILE SHEET 2
DOMESTIC WATER MAIN

SHEET NUMBER

C-302-DW

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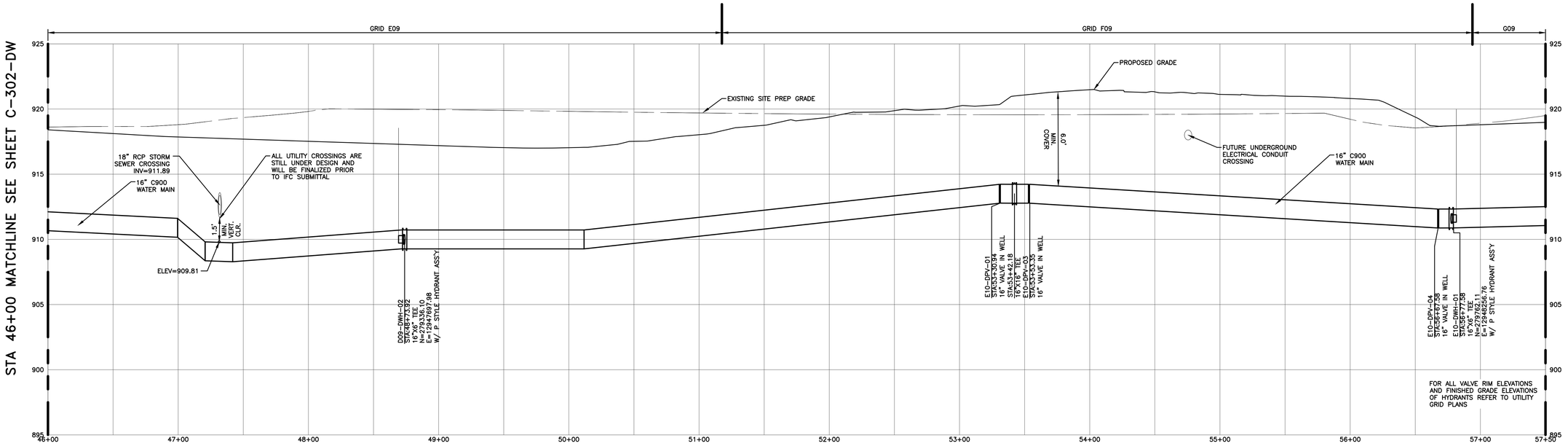
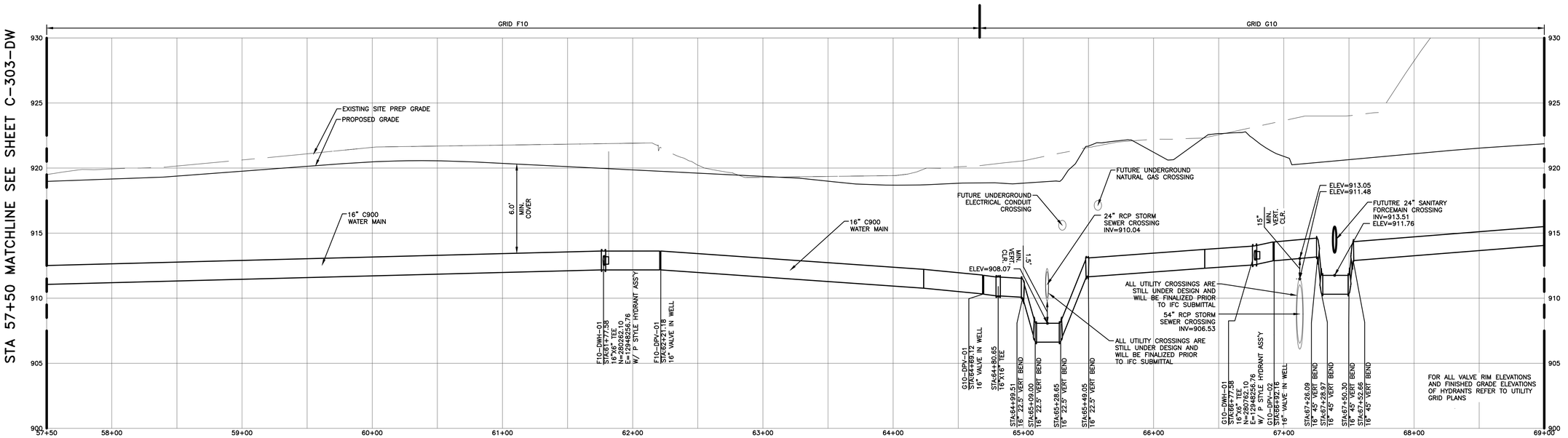


DOMESTIC WATER PROFILE "E"
STA 46+00 – STA 57+50

HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 4'



DOMESTIC WATER PROFILE "F"
STA 57+50 – STA 69+00

HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 4'

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ENGINEER NO. 45667
LICENSED PROFESSIONAL ENGINEER

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DESIGNED BY:	S. DODSON
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APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PROFILE SHEET 3
DOMESTIC WATER MAIN

SHEET NUMBER

C-303-DW

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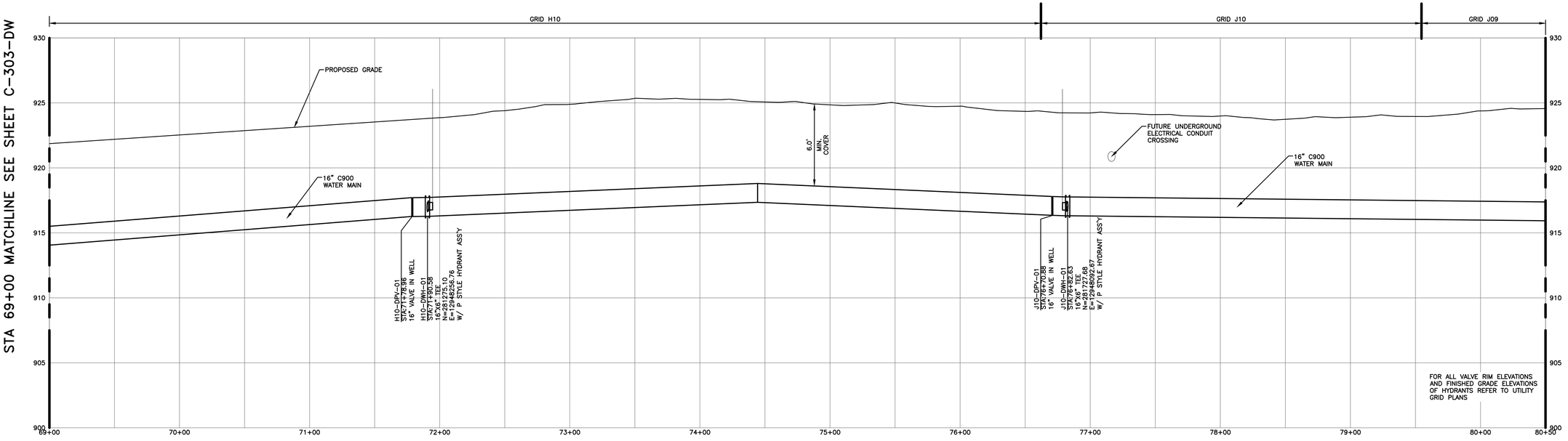
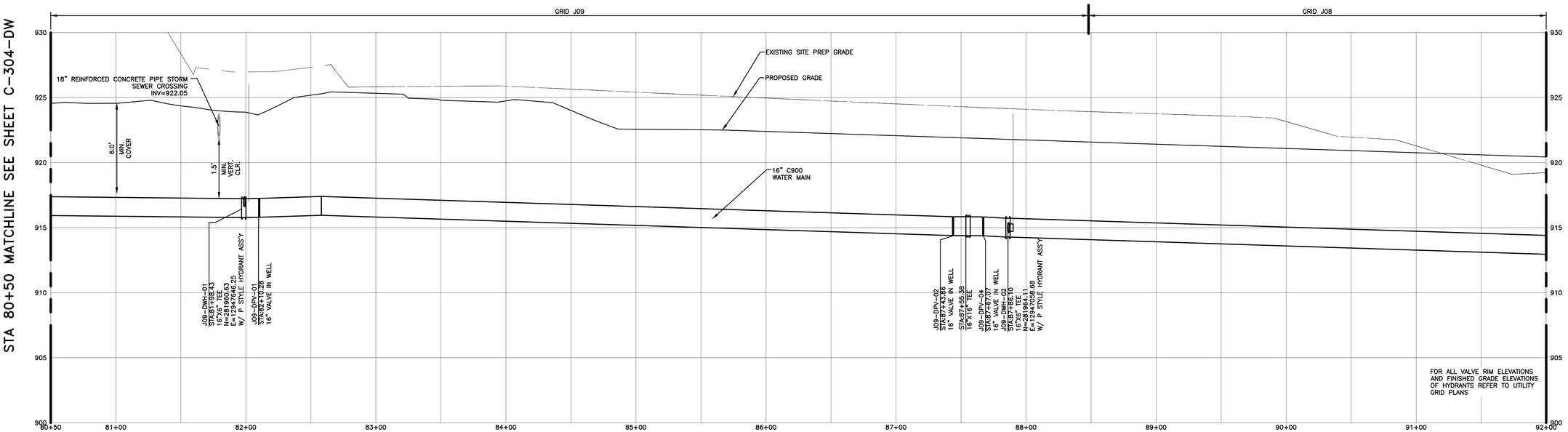
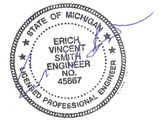


DOMESTIC WATER PROFILE "G"
STA 69+00 – STA 80+50
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 4'



DOMESTIC WATER PROFILE "H"
STA 80+50 – STA 92+00
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 4'



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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PROFILE SHEET 4
DOMESTIC WATER MAIN

SHEET NUMBER

C-304-DW

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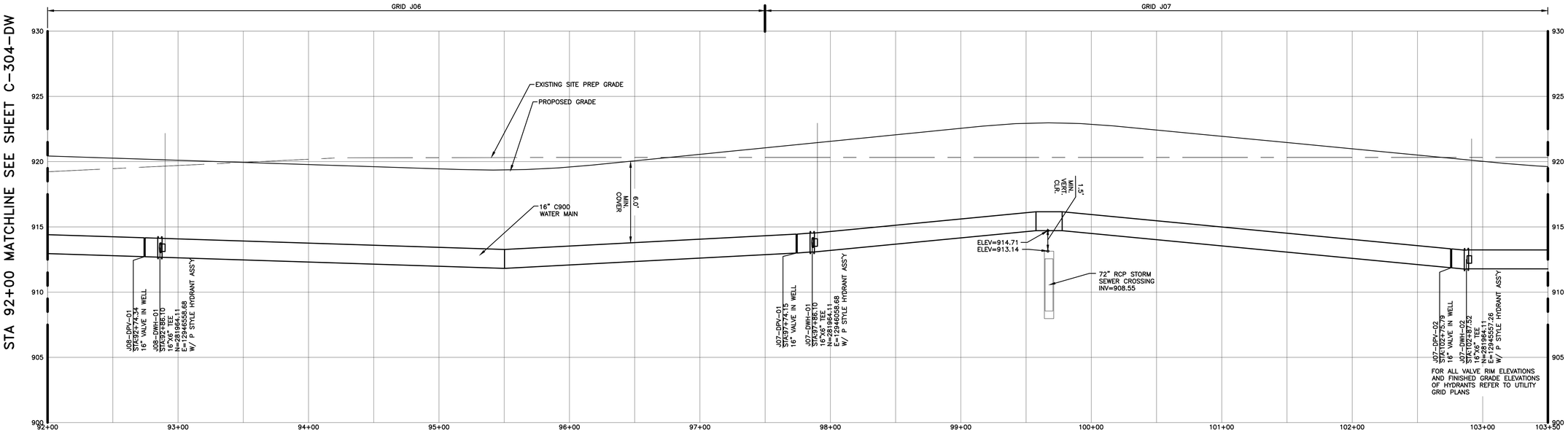
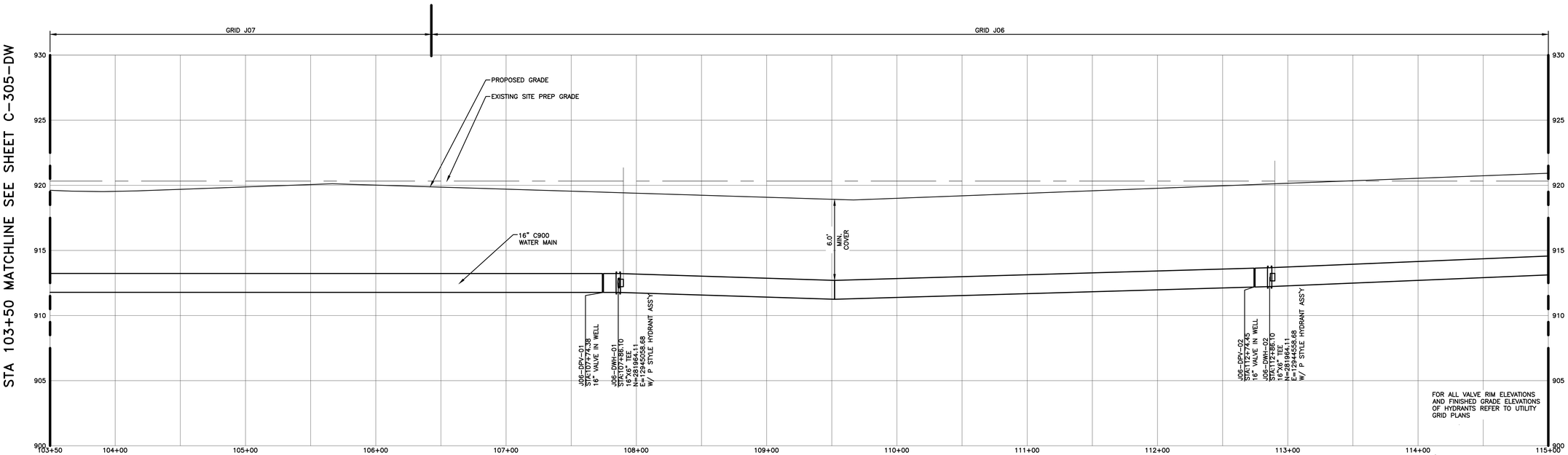


DOMESTIC WATER PROFILE "I"
STA 92+00 – STA 103+50

HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 4'



DOMESTIC WATER PROFILE "J"
STA 103+50 – STA 115+00

HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 4'

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A/E TEAM INFORMATION

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CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE
PROFILE SHEET 5
DOMESTIC WATER MAIN

SHEET NUMBER
C-305-DW

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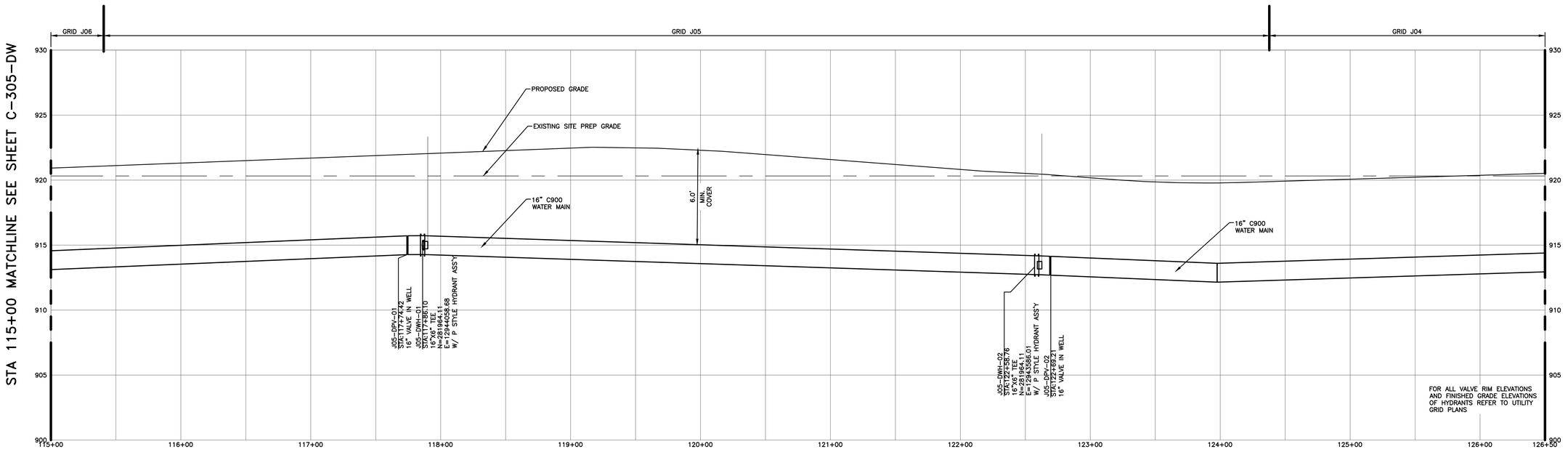

DOMESTIC WATER PROFILE "K"
STA 115+00 – STA 126+50

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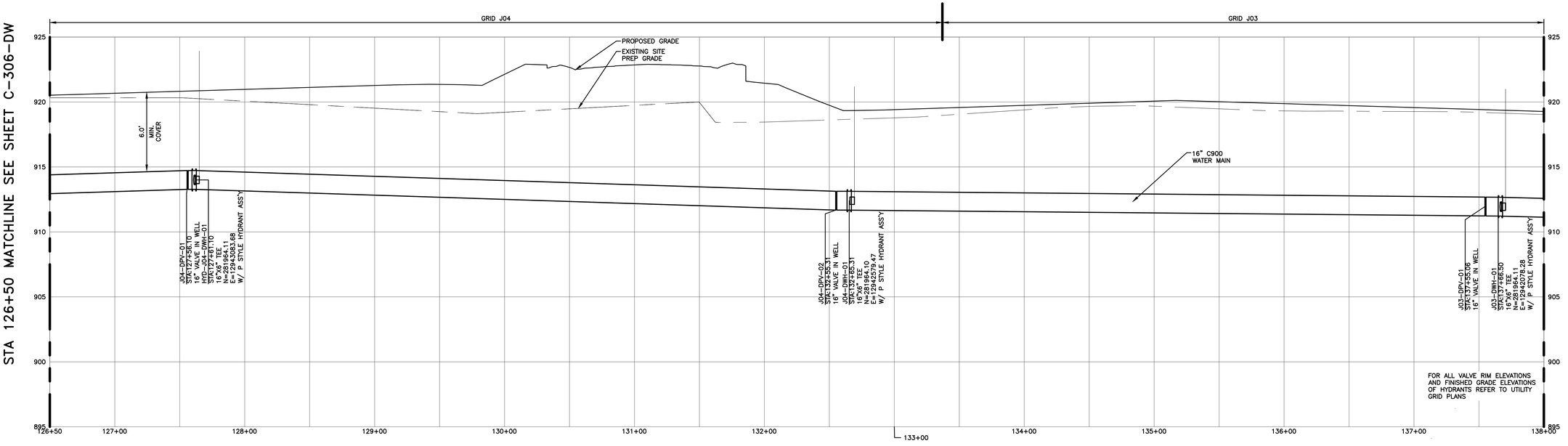
VERT. SCALE: 1" = 4'



DOMESTIC WATER PROFILE "L"
STA 126+50 – STA 138+00

HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 4'

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A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PROFILE SHEET 6
DOMESTIC WATER MAIN

SHEET NUMBER

C-306-DW

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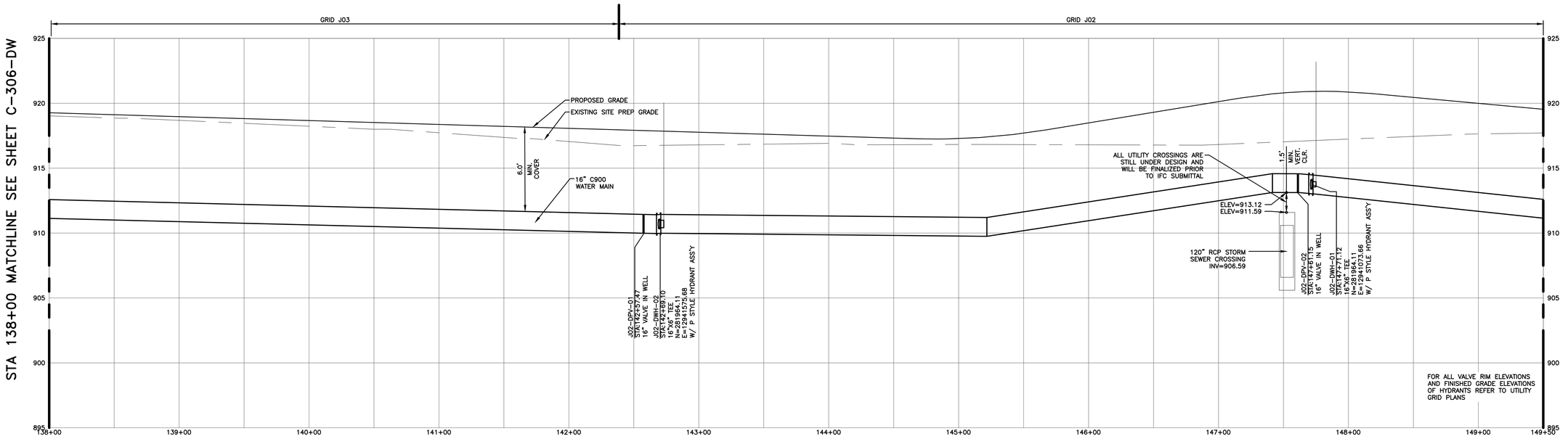

DOMESTIC WATER PROFILE "M"
STA 138+00 – STA 149+50

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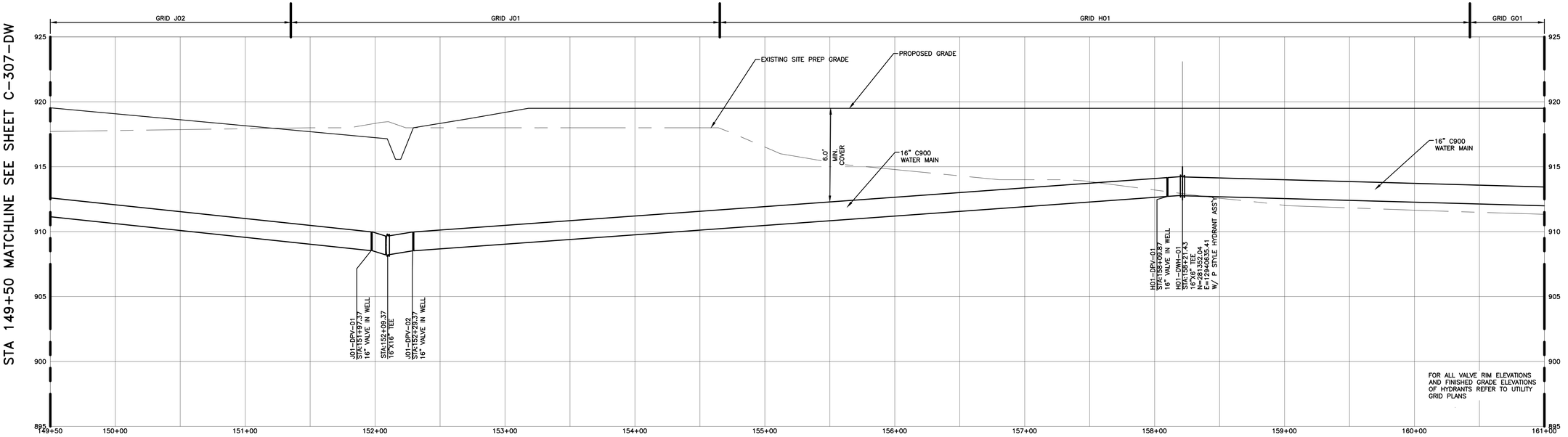
VERT. SCALE: 1" = 4'



DOMESTIC WATER PROFILE "N"
STA 149+50 – STA 161+00

HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 4'

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USA

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BATTERY PARK
MICHIGAN

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A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PROFILE SHEET 7
DOMESTIC WATER MAIN

SHEET NUMBER

C-307-DW

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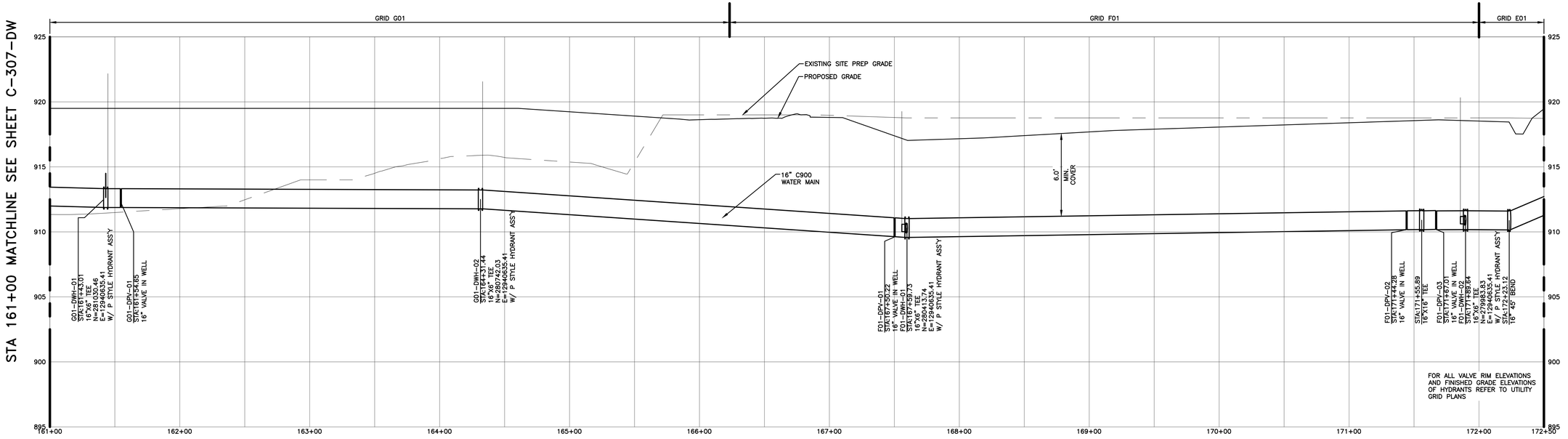

STA 161+00 MATCHLINE SEE SHEET C-307-DW

STA 172+50 MATCHLINE SEE SHEET C-308-DW

DOMESTIC WATER PROFILE "O"
STA 161+00 – STA 172+50

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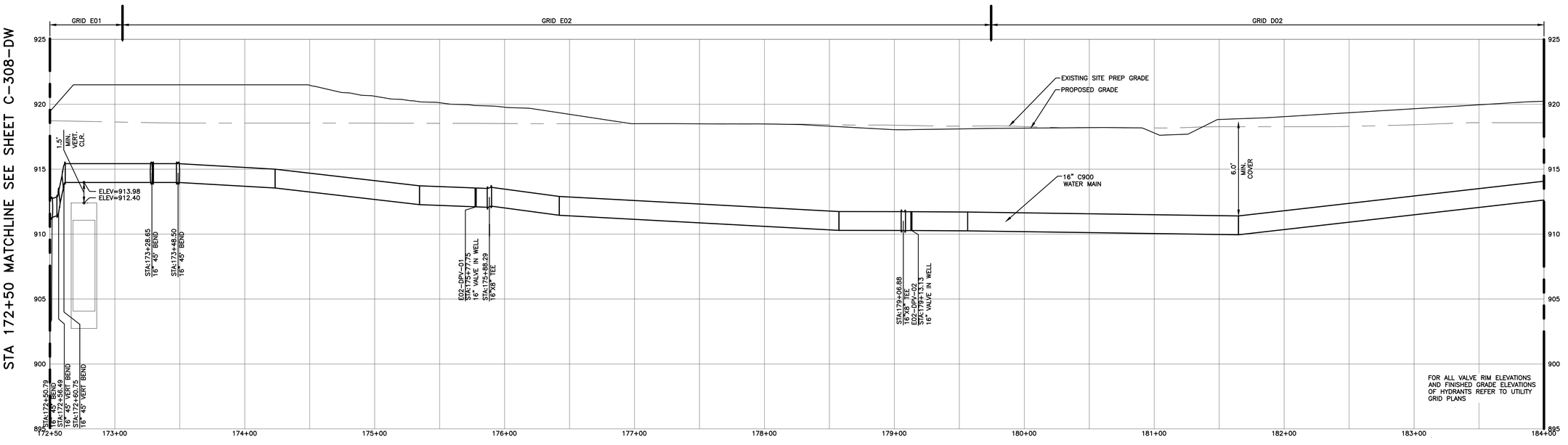
VERT. SCALE: 1" = 4'



STA 172+50 MATCHLINE SEE SHEET C-308-DW

STA 184+00 MATCHLINE SEE SHEET C-309-DW

DOMESTIC WATER PROFILE "P"
STA 172+50 – STA 184+00

HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 4'

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DESIGNED BY:	S. DODSON
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APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PROFILE SHEET 8
DOMESTIC WATER MAIN

SHEET NUMBER

C-308-DW

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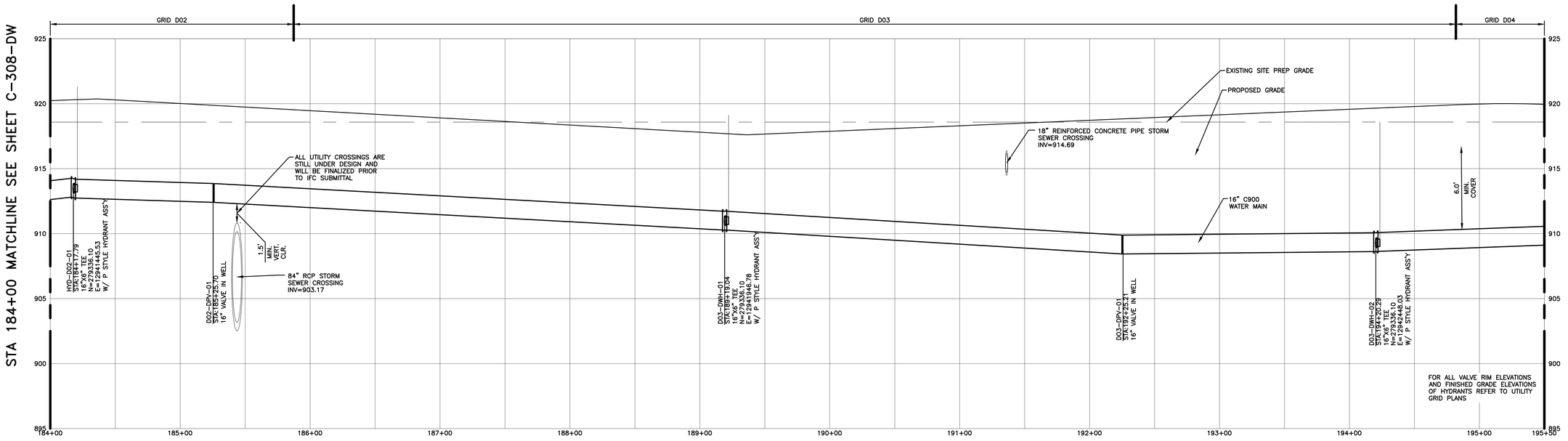
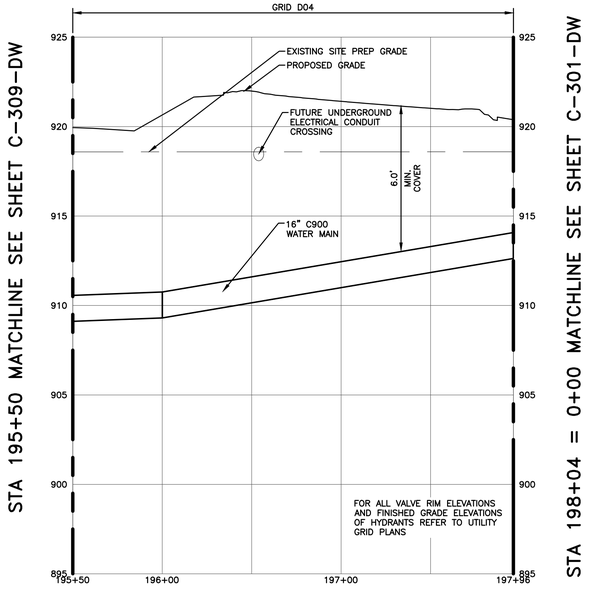


DOMESTIC WATER PROFILE "Q"
STA 184+00 – STA 195+50

HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 4'



DOMESTIC WATER PROFILE "R"
STA 195+50 – STA 197+96

HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 4'

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APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PROFILE SHEET 9
DOMESTIC WATER MAIN

SHEET NUMBER

C-309-DW

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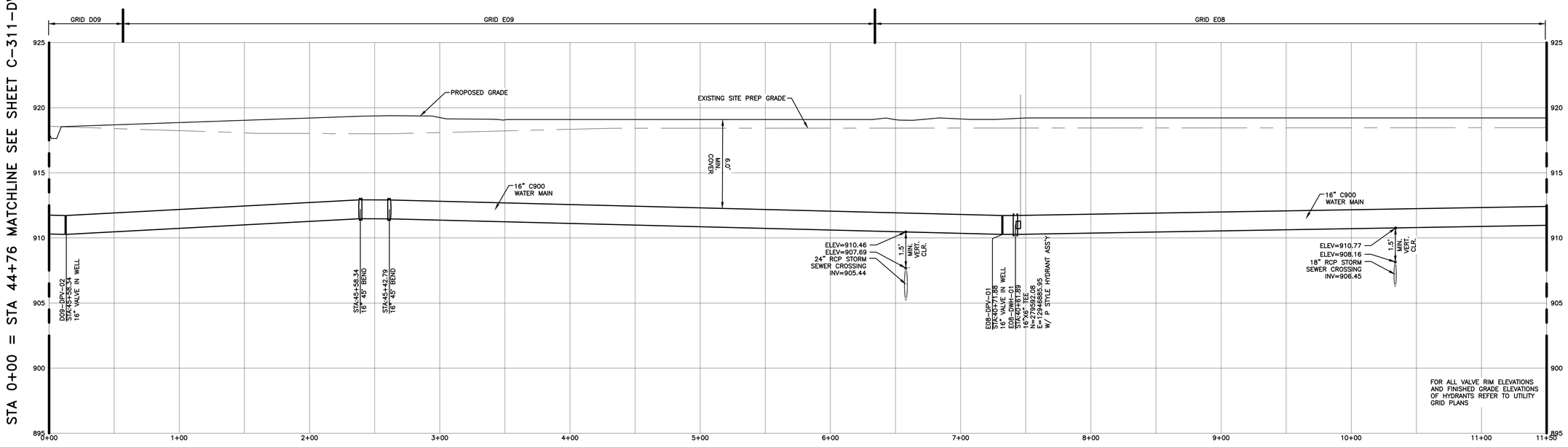

DOMESTIC WATER PROFILE "S"
STA 00+00 – STA 11+50

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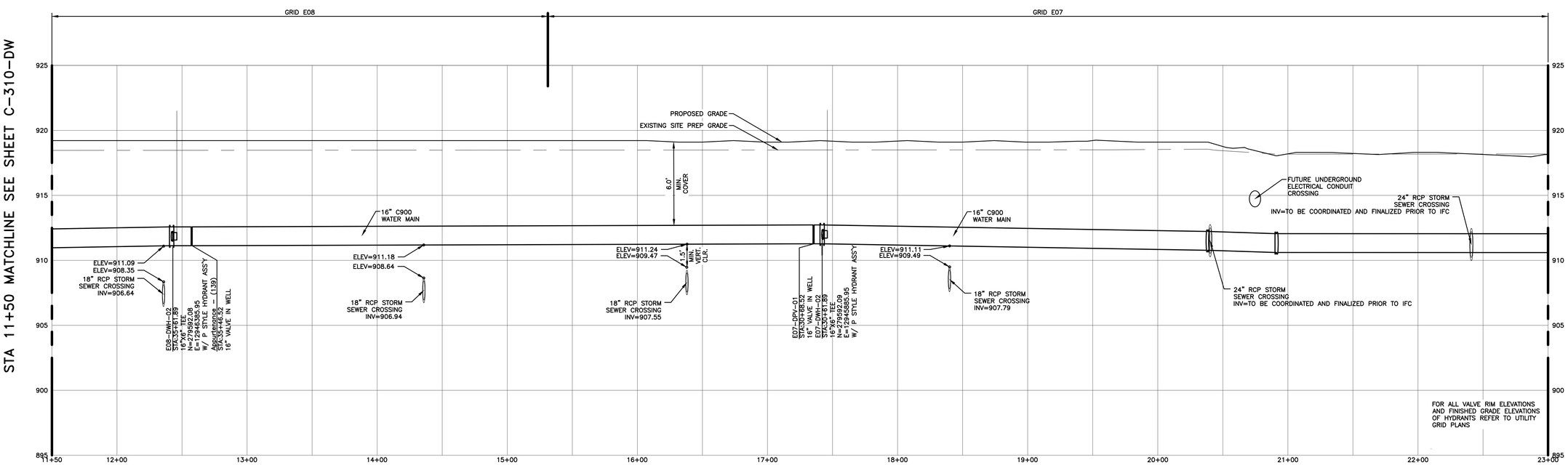

DOMESTIC WATER PROFILE "T"
STA 11+50 – STA 23+00

HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 4'

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DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PROFILE SHEET 10
DOMESTIC WATER MAIN

SHEET NUMBER

C-310-DW

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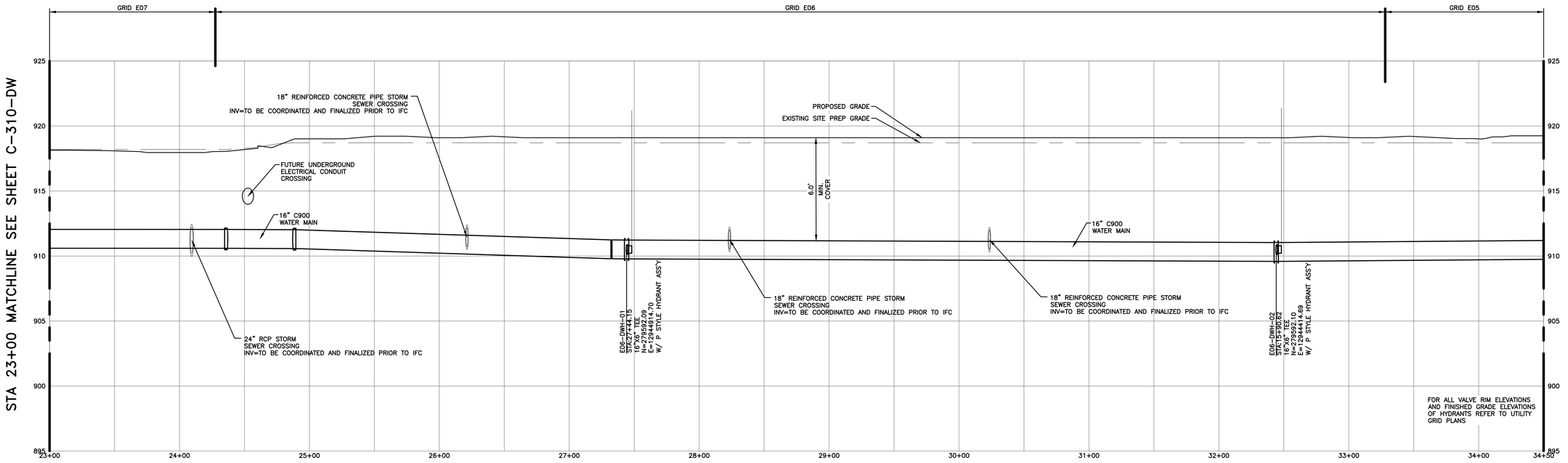

DOMESTIC WATER PROFILE "U"
STA 23+00 – STA 34+50

HORIZ. SCALE: 1" = 40'
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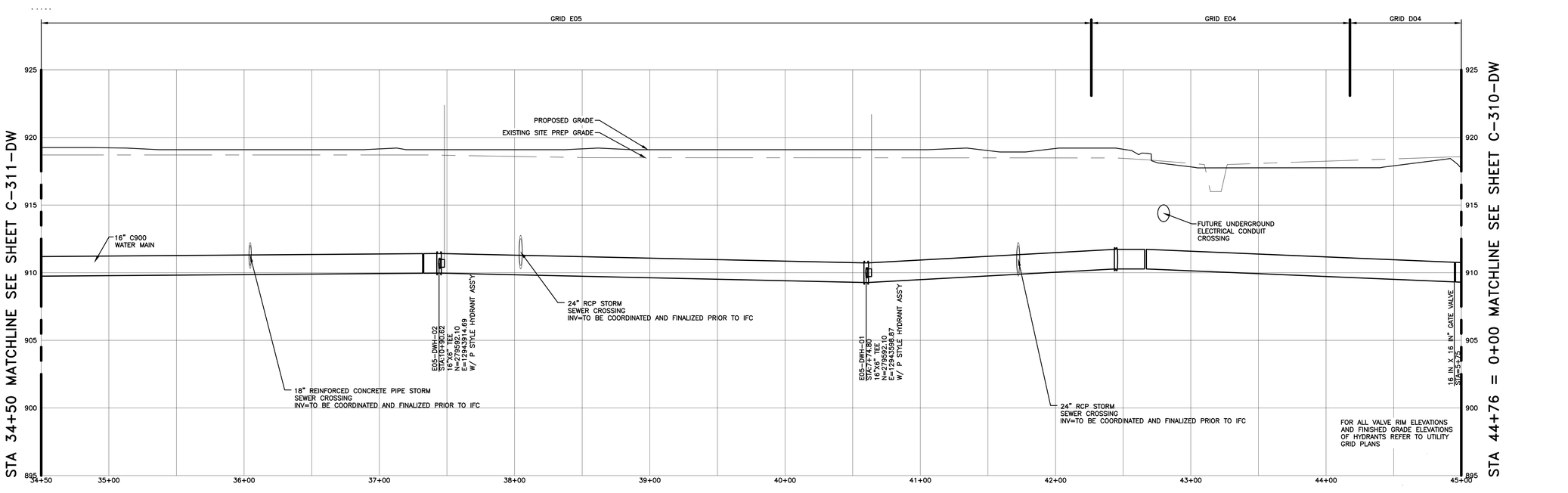

DOMESTIC WATER PROFILE "V"
STA 34+50 – STA 45+00

HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 4'

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USA

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MICHIGAN
BATTERY PLANT

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DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE
PROFILE SHEET 11
DOMESTIC WATER MAIN

SHEET NUMBER
C-311-DW

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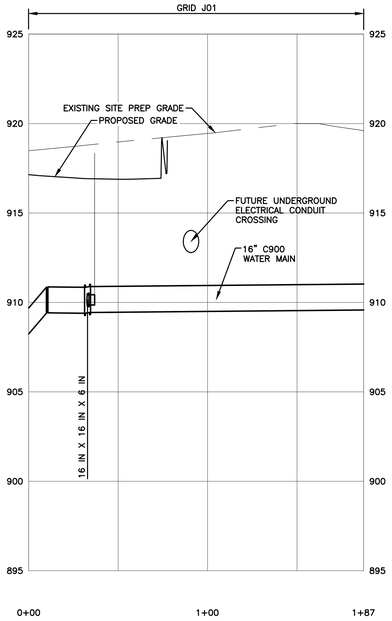

DOMESTIC WATER PROFILE "W"
STA 0+00 – STA 1+87

HORIZ. SCALE: 1" = 40'
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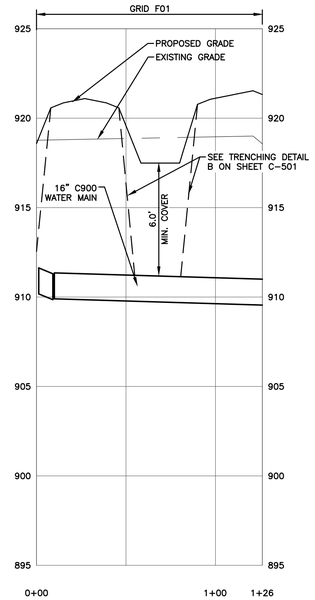
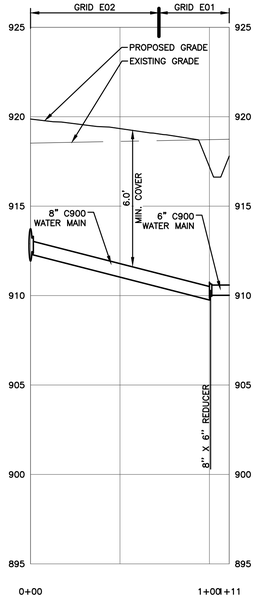
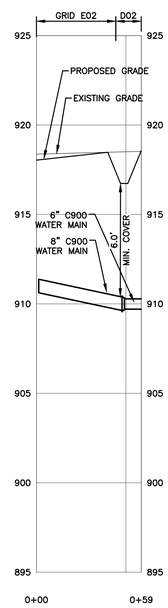


DOMESTIC WATER PROFILE "X"
STA 0+00 – STA 1+26

HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 4'





DOMESTIC WATER PROFILES "Y" & "Z"
STA 0+00 – STA 1+11 & STA 0+00 – STA 0+59

HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 4'

PRELIMINARY
NOT FOR CONSTRUCTION

40 20 0 40 80
SCALE IN FEET

FORD LAND

17000 ROTUNDA DR, 1ST FLOOR SOUTH
DEARBORN, MICHIGAN 48120-1168
USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PROFILE SHEET 12
DOMESTIC WATER MAIN

SHEET NUMBER

C-312-DW

PLOT DATE: 9/22/2023 8:02:48 AM
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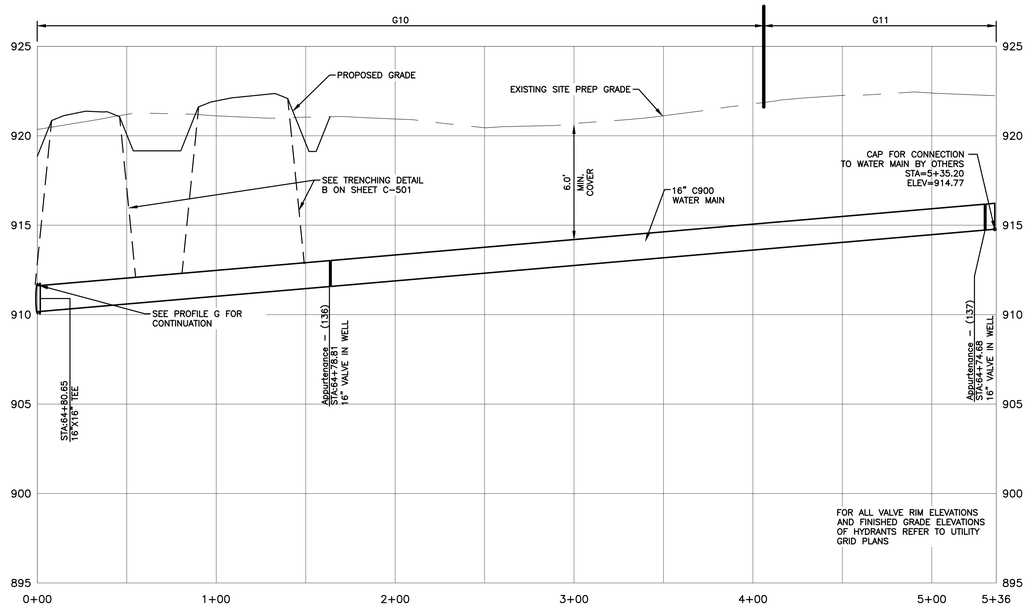

CITY WATER PROFILE "AA"
STA 0+00 – STA 5+36

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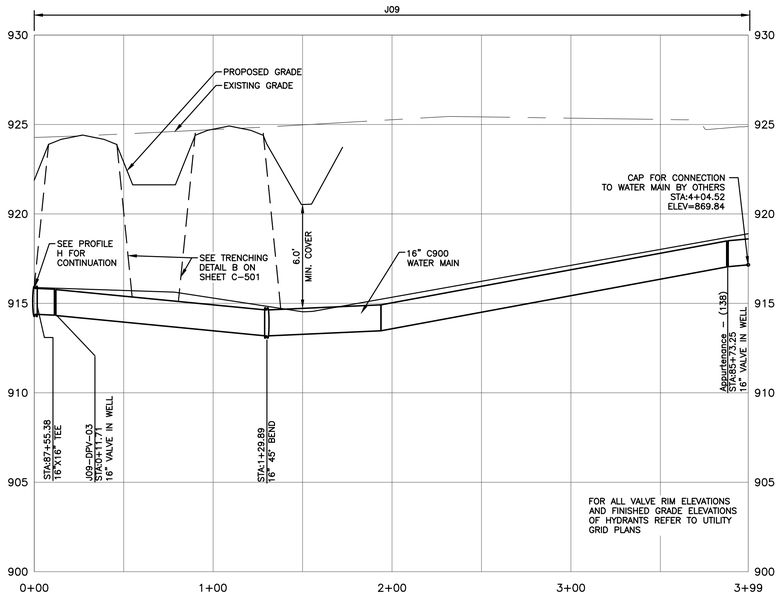
VERT. SCALE: 1" = 4'



CITY WATER PROFILE "BB"
STA 0+00 – STA 3+99

HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 4'

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45687
LICENSED PROFESSIONAL ENGINEER

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40 20 0 40 80
SCALE IN FEET

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

PROFILE SHEET 13
CITY DOMESTIC WATER MAIN

SHEET NUMBER

C-313-DW

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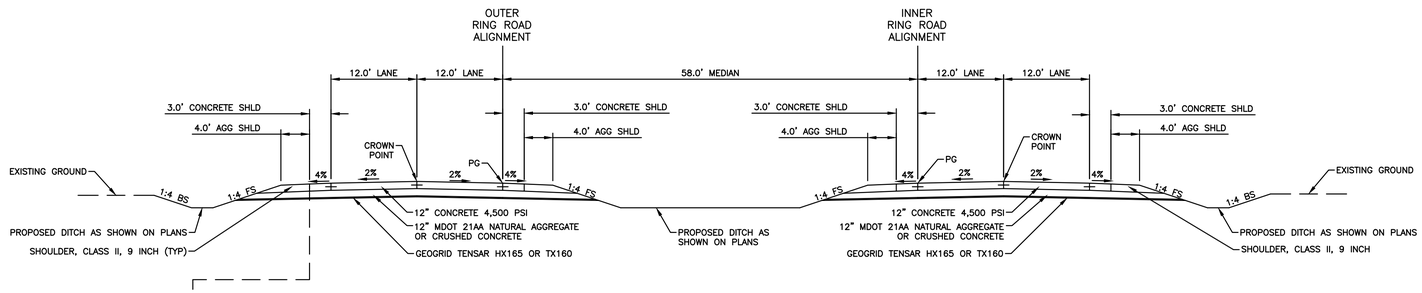
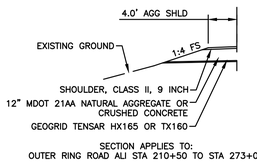




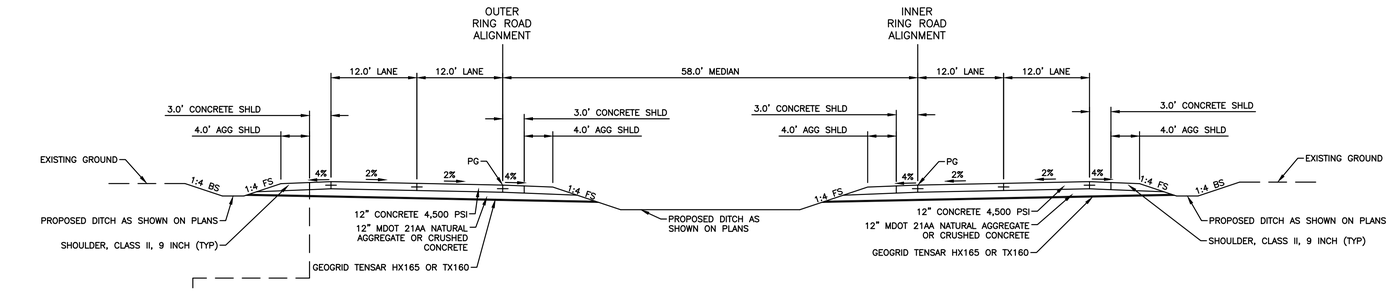
SECTION APPLIES TO:
OUTER RING ROAD ALI STA 210+50 TO STA 273+00

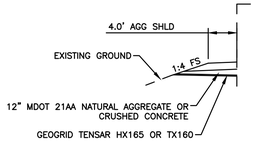
OUTER RING ROAD TYPICAL SECTION
NORMAL CROWN
CONCRETE OPTION

OUTER RING ROAD ALI STA 100+00 TO STA 169+00
OUTER RING ROAD ALI STA 183+50 TO STA 273+00

INNER RING ROAD TYPICAL SECTION
NORMAL CROWN
CONCRETE OPTION

INNER RING ROAD ALI STA 500+00 TO STA 610+00
INNER RING ROAD ALI STA 669+00 TO STA 687+77





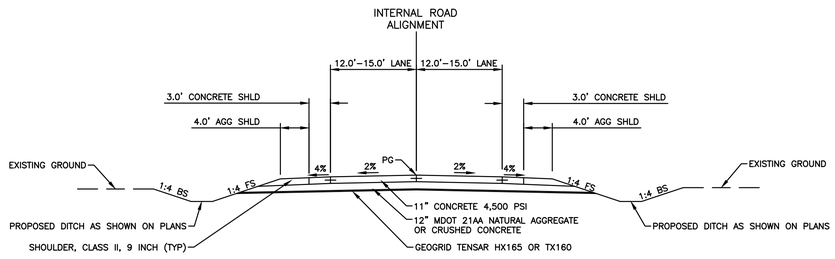
SECTION APPLIES TO:
OUTER RING ROAD ALI STA 170+50 TO 180+00
OUTER RING ROAD ALI STA 273+00 TO 290+43

OUTER RING ROAD TYPICAL SECTION
REVERSE CROWN
CONCRETE OPTION

OUTER RING ROAD ALI STA 169+00 TO STA 183+50
OUTER RING ROAD ALI STA 273+00 TO STA 290+43

INNER RING ROAD TYPICAL SECTION
REVERSE CROWN
CONCRETE OPTION

INNER RING ROAD ALI STA 610+00 TO STA 669+00



INTERNAL ROAD TYPICAL SECTION
CONCRETE OPTION

INTERNAL NORTH–SOUTH ROAD ALI STA 10+00 TO STA 37+06
INTERNAL EAST–WEST ROAD ALI STA 50+00 TO STA 71+41

NOTE: SEE LANDSCAPING PLANS FOR SLOPE RESTORATION AND TURF ESTABLISHMENT.

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FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

ROAD TYPICALS
SHEET 1

SHEET NUMBER

C-401

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

PLOT DATE: 9/22/2023 8:03:03 AM
SAVE DATE: 9/1/2023 8:01:50 AM
DEVADASAN, MALLU
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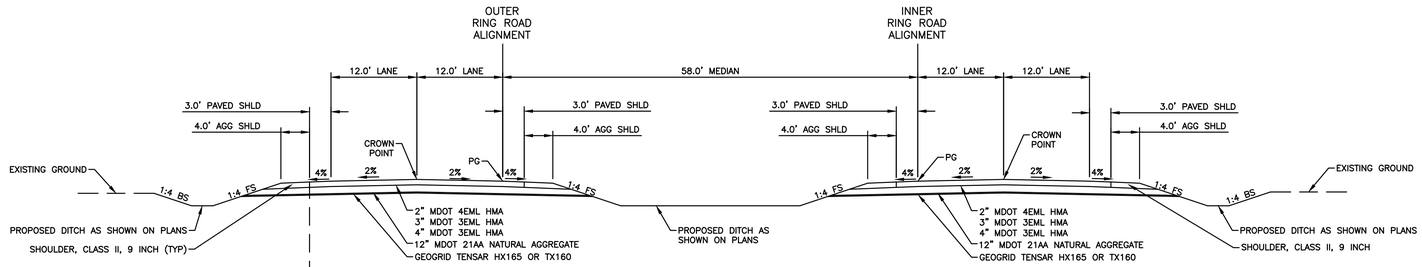
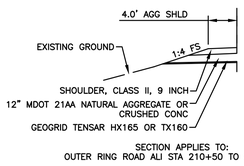




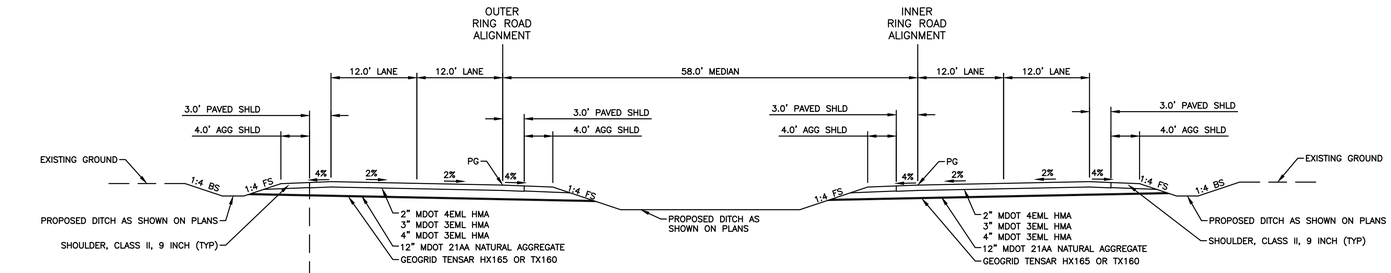
SECTION APPLIES TO:
OUTER RING ROAD ALI STA 210+50 TO STA 273+00

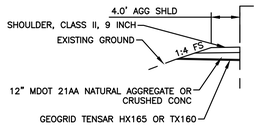
OUTER RING ROAD TYPICAL SECTION
NORMAL CROWN
ASPHALT OPTION

OUTER RING ROAD ALI STA 100+00 TO STA 169+00
OUTER RING ROAD ALI STA 183+50 TO STA 273+00

INNER RING ROAD TYPICAL SECTION
NORMAL CROWN
ASPHALT OPTION

INNER RING ROAD ALI STA 500+00 TO STA 610+00
INNER RING ROAD ALI STA 669+00 TO STA 687+77





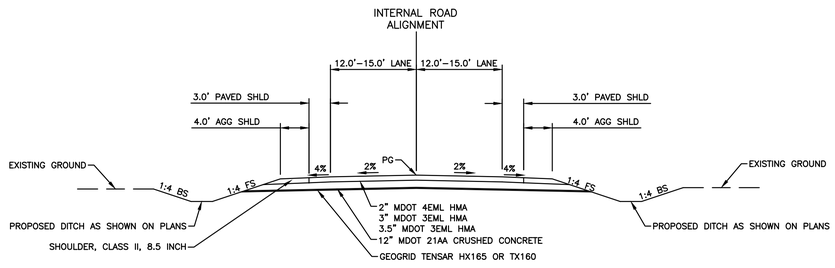
SECTION APPLIES TO:
OUTER RING ROAD ALI STA 170+50 TO 180+00
OUTER RING ROAD ALI STA 273+00 TO 290+43

OUTER RING ROAD TYPICAL SECTION
REVERSE CROWN
ASPHALT OPTION

OUTER RING ROAD ALI STA 169+00 TO STA 183+50
OUTER RING ROAD ALI STA 273+00 TO STA 290+43

INNER RING ROAD TYPICAL SECTION
REVERSE CROWN
ASPHALT OPTION

INNER RING ROAD ALI STA 610+00 TO STA 669+00



INTERNAL ROAD TYPICAL SECTION
ASPHALT OPTION

INTERNAL NORTH–SOUTH ROAD ALI STA 10+00 TO STA 37+06
INTERNAL EAST–WEST ROAD ALI STA 50+00 TO STA 71+41

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FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

ROAD TYPICALS
SHEET 2

SHEET NUMBER

C-402

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
REGISTERED PROFESSIONAL ENGINEER

PLOT DATE: 9/22/2023 8:03:05 AM
SAVE DATE: 9/11/2023 8:01:50 AM
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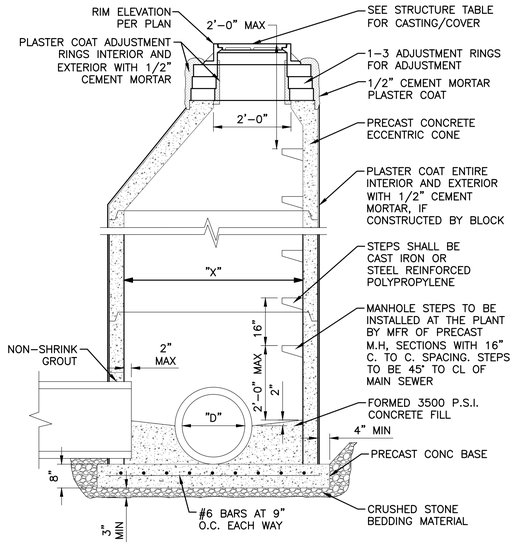
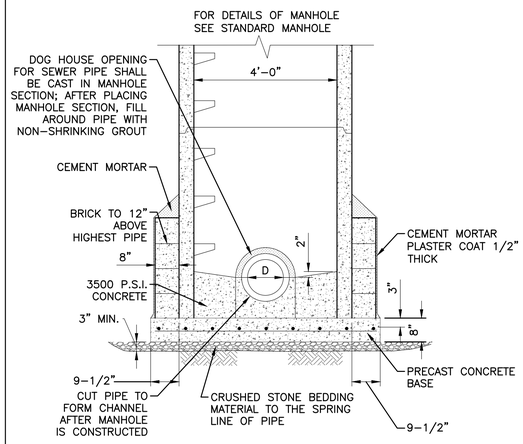
REQ'D MANHOLE DIAMETER		
"X"	MAX PIPE DIA. STRAIGHT THRU INSTALLATION	MAX PIPE DIA. RIGHT ANGLE INSTALLATION
4'	24"	18"
5'	36"	24"
6'	42"	36"
7'	60"	42"



STANDARD STORM MANHOLE DETAIL

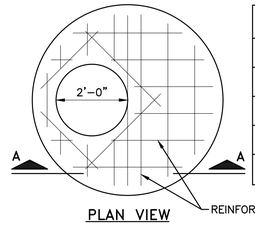
NTS

DOG HOUSE CUT OUT SIZES	
SEWER SIZE "D"	MAX CUT OUT SIZE
8" THRU 10"	17-1/2"
12" THRU 15"	20"



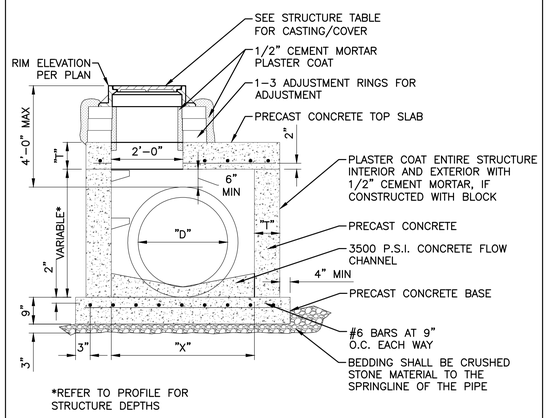
STANDARD STORM MANHOLE OVER EXISTING SEWERS 8" THROUGH 15" DETAIL

NTS



PLAN VIEW

OUTLET "D"	MH I.D. "X"	TOP SLAB "T"	WALLS "T"	REINF STEEL
24" OR LESS	4'-0"	9"	8"	#6@9" E.W.
30"	4'-0"	9"	8"	#6@9" E.W.
36"	5'-0"	9"	12"	#6@9" E.W.
42"	5'-0"	10"	12"	#6@9" E.W.
48", 54"	6'-0"	10"	12"	#6@9" E.W.

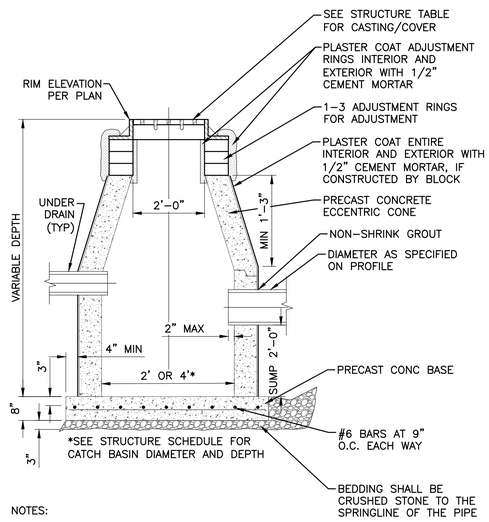


*REFER TO PROFILE FOR STRUCTURE DEPTHS

SECTION A-A

SHALLOW MANHOLE/CATCH BASIN "D" DETAIL

NTS



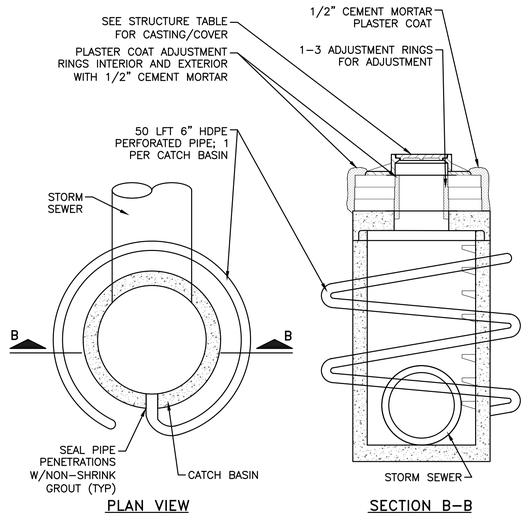
NOTES:

1. PERFORATED UNDERDRAIN PIPE WITH GEOTEXTILE FABRIC WRAP TO BE INSTALLED WITH EACH CATCH BASIN. SEE UNDERDRAIN DETAIL THIS SHEET.

2. TAP LONGITUDINAL ROADWAY UNDERDRAINS TO EXITING & PROPOSED STORM STRUCTURES AS THE UNDERDRAIN PASSES THE STRUCTURE. THIS CONNECTION IS IN ADDITION TO THE UNDERDRAIN FOR EACH CATCHBASIN.

2' AND 4' DIAMETER STANDARD CATCH BASIN DETAIL

NTS



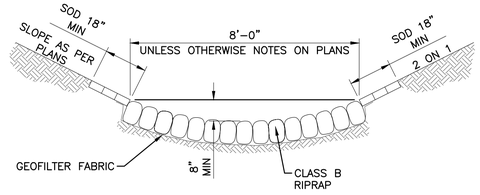
PLAN VIEW SECTION B-B

NOTES:

1. DETAIL TO BE UTILIZED WHEN STORM STRUCTURE DESIGNED TO ACCEPT SURFACE RUNOFF AND WHEN LOCATED IN PAVED AREA.
2. PERFORATED PIPE TO HAVE GEOTEXTILE FABRIC WRAP.
3. DO NOT USE WITHIN REMEDIATION SOIL LIMITS

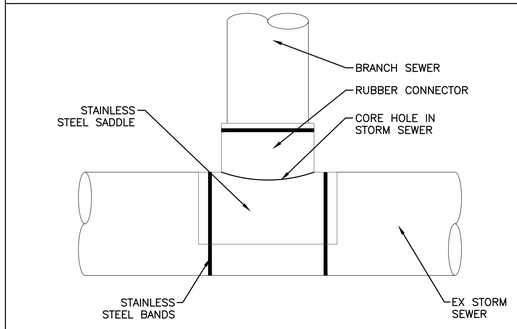
UNDERDRAIN DETAIL FOR STORM CATCH BASINS

NTS



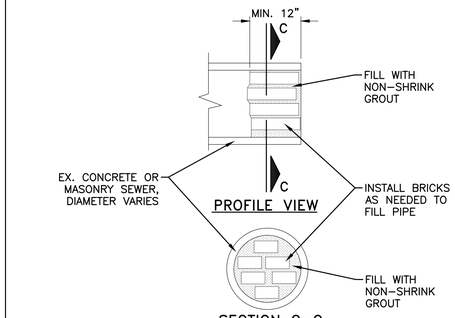
PLAIN COBBLE DITCH DETAIL

NTS



SADDLE CONNECTION DETAIL

NTS

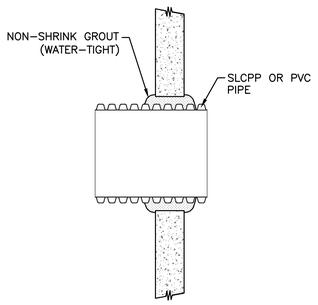


PROFILE VIEW

SECTION C-C

BULKHEAD DETAIL

NTS



WATER-TIGHT GROUTED MANHOLE CONNECTION DETAIL

NTS

STORM SEWER NOTES

1. MANHOLE DIAMETER SHOWN IN STANDARD STORM MANHOLE DETAIL ARE FOR STRUCTURES WITH NO MORE THAN TWO STORM SEWER PIPES. LARGER DIAMETER STRUCTURES MAY BE REQUIRED FOR DIFFERENT CONFIGURATIONS. SUBMIT SHOP DRAWINGS FOR ALL STRUCTURES.
2. ALL STRUCTURES REQUIRE A MINIMUM OF 6-INCHES OF WALL BETWEEN PIPE OPENINGS.
3. IF EXCAVATION DEPTH AROUND EXISTING MANHOLE EXCEEDS 6-FEET ON ANY SIDE, THE OPPOSING SIDE OF THE MANHOLE SHALL ALSO BE EXCAVATED TO A DEPTH SUCH THAT THE DIFFERENTIAL IN DEPTH AROUND THE MANHOLE AT NO TIME SHALL EXCEED 6-FEET.
4. PLACE SAND BACKFILL WITHIN THREE FEET OF ALL STRUCTURES. BACKFILL MORE THAN 3-FEET FROM STRUCTURE MAY BE IN-SITU SOIL OR SAND BACKFILL.
5. ALL MANHOLES AND CATCH BASINS SHALL BE PRECAST CONCRETE AND SHALL CONFORMING TO THE REQUIREMENTS OF ASTM C-478, UNLESS OTHERWISE APPROVED BY ENGINEER.
6. THE BOTTOM PRECAST SECTION SHALL, IN ALL CASES, BE CAST WITH THE BOTTOM END FLAT SO AS TO PROVIDE BEARING OF FULL WALL THICKNESS. BOTTOM SECTIONS SHALL BE SET IN 1:2 CEMENT MORTAR.
7. JOINTS ON PRECAST SECTIONS SHALL BE PREMIUM JOINTS.
8. REFER TO PROFILE FOR STRUCTURE DEPTH.
9. ALL STORM SEWER MANHOLE CASTINGS SHALL BE LABELED STORM

Know what's **below.**
Call before you dig.

NOT FOR CONSTRUCTION

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
REGISTERED PROFESSIONAL ENGINEER

FORD LAND
17000 ROTUNDA DR, 1ST FLOOR SOUTH
DEARBORN, MICHIGAN 48120-1168
USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

A/E OF RECORD LOGO

WADE TRIM
25251 Northline Rd.
Taylor, MI 48180
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www.wadetrim.com

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Walbridge

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09/22/23	• BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT
08/31/23	• BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT

A/E TEAM INFORMATION	
IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

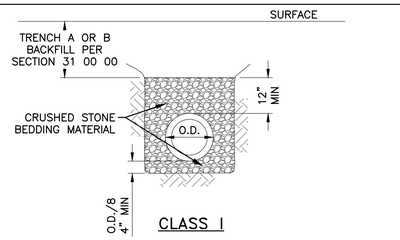
SHEET TITLE

STANDARD STORMWATER DETAILS

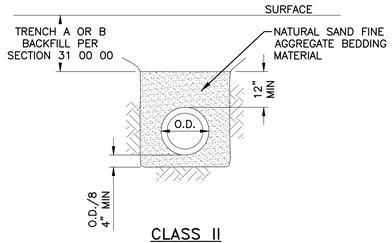
SHEET NUMBER

C-506

PLOT DATE: 9/22/2023 8:03:12 AM SAVE DATE: 9/20/2023 3:29:34 PM DEVADASAN, MALU C:\Users\mdevadasan\DCACC\Data\Wade Trim\FRD\2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\2000000-C-DTLS-GEN-WADE.dwg



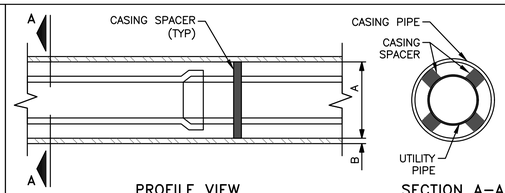
CLASS I



CLASS II

MAX WIDTH OF TRENCH FROM BOTTOM TO 12" ABOVE TOP OF PIPE
6" THRU 12" PIPE – 30" WIDE
15" THRU 36" PIPE – O.D. +16"
42" THRU 60" PIPE – O.D. +20"
OVER 60" PIPE – O.D OF PIPE +24"
MIN WIDTH OF TRENCH 12" ABOVE THE TOP OF PIPE SHALL BE 6" ON EACH SIDE OF PIPE

PIPE BEDDING DETAIL
NTS



PROFILE VIEW SECTION A–A

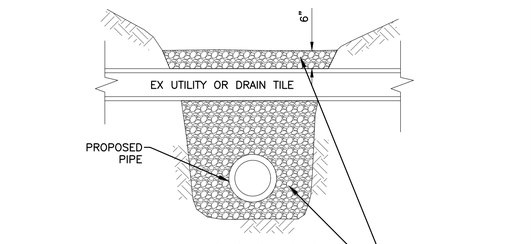
CASING SIZE	
MAX O.D. OF PIPE OR PIPE BUNDLE	MIN CASING SIZE "A"
<6"	O.D.+4"
6"–12"	O.D.+5"
12"–24"	O.D.+6"
24"–28"	O.D.+8"
>28"	O.D.+10"

CASING WALL THICKNESS		
CASING SIZE "A"	MIN WALL THICKNESS "B"	MIN WALL THICKNESS "B" (NOTE 6)
<18"	0.250"	0.3125"
20"	0.250"	0.344"
22"	0.250"	0.375"
24"	0.375"	0.406"
26"	0.375"	0.438"
28"–30"	0.375"	0.469"
32"	0.375"	0.500"
34"–36"	0.375"	0.532"
38"–42"	0.438"	0.562"
44"–48"	0.500"	
50"–54"	0.563"	

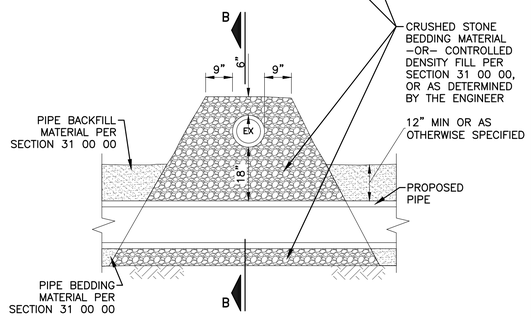
NOTES:

1. CASING SIZES FOR WORK IN ROAD RIGHT OF WAY SHALL BE AS SHOWN ON THE PLANS.
2. WHEN BORING, ALL VOIDS OUTSIDE OF CASING PIPE SHALL BE FILLED BY PRESSURE GROUTING WITH 1:3 CEMENT–SAND MORTAR.
3. BORING SHALL EXTEND A MINIMUM OF 10–FEET OUTSIDE EDGES OF ANY PAVED SURFACE CROSSED BY UTILITY.
4. CASING SPACER SPACING SHALL BE AS RECOMMENDED BY PIPE MANUFACTURER. SPACING SHALL NOT EXCEED THE LESSOR OF 6 FEET OR TWO PER PIPE JOINT.
5. THE ENDS OF THE CASING SHALL BE SUITABLY PROTECTED AGAINST THE ENTRANCE OF FOREIGN MATERIAL WITH A NEOPRENE END SEAL (CCI PIPELINE SYSTEMS OR APPROVED EQUAL
6. MINIMUM WALL THICKNESS FOR CASING PIPE IN WAYNE COUNTY ROAD RIGHT–OF–WAY.

STANDARD CASING DETAIL
NTS



SECTION B–B



PROFILE VIEW

NOTE:

1. CRUSHED STONE OR CONTROLLED DENSITY FILL SHALL EXTEND FOR 9" EACH SIDE OF EXISTING PIPE, 6" ABOVE EXISTING PIPE & SHALL SLOPE OUT AT 1:1 (45°) SLOPE TO THE BOTTOM OF THE TRENCH

STANDARD PIPE SUPPORT DETAIL
NTS

Know what's **below.** **Call** before you dig.

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FORDLAND

17000 ROTUNDA DR, 1ST FLOOR SOUTH
DEARBORN, MICHIGAN 48120-1168
USA

Ford

BLUE OVAL
BATTERY PARK
MICHIGAN

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CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

STANDARD TRENCH DETAILS

SHEET NUMBER

C-501

PLOT DATE: 9/22/2023 8:03:13 AM SAVE DATE: 9/20/2023 3:29:34 PM DEVADASAN, MALU C:\Users\mdevadasan\DC\ACCDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\2000000-C-DTLS-502-WADE.dwg

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GENERAL STRUCTURAL NOTES

GENERAL

1. THESE NOTES APPLY TO THE ENTIRE PROJECT EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE.

2. STRUCTURES HAVE BEEN DESIGNED FOR OPERATIONAL, HYDROSTATIC, AND BACKFILL LOADS ON THE COMPLETED STRUCTURES. THE STRUCTURES HAVE NOT BEEN DESIGNED TO RESIST THESE LOADS WHILE ONLY PARTIALLY CONSTRUCTED. DURING CONSTRUCTION, THE STRUCTURES SHALL BE PROTECTED FROM ALL CONSTRUCTION LOADS BY BRACING AND BALANCING UNTIL ALL STRUCTURAL ELEMENTS ARE IN PLACE, AND ALL CONCRETE HAS REACHED THE SPECIFIED 28 DAY COMPRESSIVE STRENGTH.

3. UNLESS OTHERWISE SHOWN, ON ALL STRUCTURAL DRAWINGS THE FINISHED GRADE AROUND STRUCTURES INDICATES EITHER GROUND SURFACE, TOP OF CONCRETE SLAB, OR PAVEMENT. FOR DETAILS OF FINISH SURFACES SEE CIVIL DRAWINGS.

4. WATERSTOPS SHALL BE PROVIDED AT ALL CONSTRUCTION JOINTS FOR UNDERGROUND STRUCTURES PER STANDARD DETAIL SHOWN ON TYPICAL DETAIL.

PRECAST CONCRETE

1. DESIGN OF PRECAST STRUCTURAL MEMBERS (EXCEPT FOR TUNNEL CONSTRUCTION) SHALL CONFORM TO THE LATEST EDITION OF ACI 350 AND PCI MNL 120 AND SHALL BE DESIGNED TO SUSTAIN THE SUPERIMPOSED LOADS INDICATED.

2. ALL PRECAST SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI AT 28 DAYS.

3. PRECAST MANUFACTURER SHALL DESIGN PRECAST STRUCTURAL SYSTEMS, INCLUDING ALL REQUIRED STEEL HANGERS WHICH SHALL BE HOT-DIPPED GALVANIZED STEEL ABOVE DRY AREAS, AND A316 STAINLESS STEEL ABOVE WET AREAS. DESIGN CALCULATIONS SHALL BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MICHIGAN, AND SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION.

SPECIAL INSPECTIONS

1. SPECIAL INSPECTIONS SHALL BE PERFORMED ACCORDING TO THE 2015 MICHIGAN BUILDING CODE AND AS SPECIFIED ELSEWHERE FOR TESTING AND INSPECTION OF CONSTRUCTION.

2. AN INDEPENDENT TESTING COMPANY RETAINED BY THE OWNER SHALL INSPECT ITEMS A AND B SHOWN BELOW. THE CONTRACTOR SHALL NOTIFY THE OWNER AND TESTING COMPANY FOR ALL INSPECTIONS. REGARDLESS OF WHETHER OR NOT THE INSPECTIONS ARE PERFORMED, THE CONTRACTOR REMAINS RESPONSIBLE FOR THE QUALITY OF THE INSTALLED WORK.

A. SOIL COMPACTION.

B. REINFORCING BAR, CONCRETE PLACEMENT AND TAKING OF CONCRETE TEST SPECIMENS.

CONCRETE (EXCEPT PRECAST CONCRETE)

1. THE DETAILING, BENDING AND PLACING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI STANDARD 350/350R CODE AND ACI DETAILING MANUAL, SP-66. FIELD BENDING WILL NOT BE PERMITTED UNLESS APPROVED BY OWNER.

2. ALL REINFORCING STEEL SHALL BE NEW BILLET STEEL DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60.

3. ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 5000 PSI AT 28 DAYS UNLESS OTHERWISE NOTED.

4. CONCRETE CONSTRUCTION SHALL CONFORM TO THE CODES, SPECIFICATIONS AND STANDARDS AS CONTAINED OR REFERENCED IN THE LATEST EDITION OF ACI STANDARD 350, CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES. CODES, SPECIFICATIONS OR STANDARDS REFERENCED THEREIN ARE INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS.

5. UNLESS OTHERWISE INDICATED, ASIDE FROM NORMAL ACCESSORIES USED TO HOLD REINFORCING BARS FIRMLY IN POSITION, THE FOLLOWING SHALL BE ADDED:

A. IN SLABS #5 RISER BARS AT 36 INCHES ON CENTER MAXIMUM TO SUPPORT TOP REINFORCING BARS.

B. IN WALLS WITH 2 CURTAINS #3 U OR Z SHAPE SPACERS AT 6 FEET ON CENTER EACH WAY.

6. METAL CLIPS OR SUPPORTS SHALL NOT BE PLACED IN CONTACT WITH THE FORMS OR THE SUBGRADE. CONCRETE BLOCKS (OR DOBIES) SUPPORTING BARS ON SUBGRADE SHALL BE IN SUFFICIENT NUMBERS TO SUPPORT THE BARS WITHOUT SETTLEMENT, BUT IN NO CASE SHALL SUCH SUPPORT BE CONTINUOUS.

7. DOWELS SHALL BE WIRED OR OTHERWISE HELD IN POSITION. THEY SHALL NOT BE SHOVED INTO FRESHLY PLACED CONCRETE.

8. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, LAPS OF REINFORCEMENT SHALL BE AS SHOWN ON TYPICAL DETAIL.

9. REINFORCING BARS AND ACCESSORIES SHALL NOT BE IN CONTACT WITH ANY PIPE, PIPE FLANGE OR METAL PARTS EMBEDDED IN CONCRETE, A MINIMUM OF 2 INCHES CLEARANCE SHALL BE PROVIDED AT ALL TIMES.

10. SLABS WITH SLOPING SURFACES SHALL HAVE THE INDICATED SLAB THICKNESS MAINTAINED AS THE MINIMUM. SLAB BOTTOMS MAY EITHER SLOPE WITH THE TOP SURFACE OR BE LEVELED. REINFORCING IN SLABS WITH SLOPING SURFACES SHALL BE PLACED AT THE REQUIRED CLEARANCE FROM THE SLAB SURFACES. 3" MINIMUM CLEAR COVER REQUIRED OVER REINFORCEMENT FOR ALL CONCRETE IN CONTACT WITH SEWAGE, WATER OR GROUND/SUPPORT OF EXCAVATION.

11. PRIOR TO PLACING FILLET CONCRETE, THE SURFACE SHALL BE ROUGHENED 1/16 INCHES DEEP, AND APPROVED BONDING COMPOUND SHALL BE APPLIED. FOR FILLETS THICKER THAN 12 INCHES, PROVIDE #5 DOWELS ON VERTICAL CONTACT SURFACE AT SPACING OF 18 INCHES IN EITHER DIRECTION. FILLET CONCRETE TO BE SLOPED TOWARDS FLOW CHANNEL AT 2% SLOPE UNLESS OTHERWISE NOTED ON DRAWINGS.

STRUCTURAL DEFERRED SUBMITTALS

1. THE FOLLOWING PORTIONS OF THE PROJECT ARE DEFERRED SUBMITTAL ITEMS AND HAVE NOT BEEN DESIGNED BY THE ENGINEER OF RECORD:

A. PRECAST MANHOLES

2. DEFERRED SUBMITTAL ITEMS WILL BE SUBMITTED TO THE OWNER FOR APPROVAL DURING THE CONSTRUCTION OF THE PROJECT. CONSTRUCTION OF DEFERRED SUBMITTAL ITEMS SHALL NOT COMMENCE UNTIL THE OWNER HAS APPROVED THE SUBMITTAL.

QUALITY ASSURANCE NOTES:

1. THE QUALITY OF THE WORKMANSHIP AND THE QUALITY OF THE MATERIALS OF CONSTRUCTION ARE GOVERNED BY THE INTERNATIONAL BUILDING CODE, 2015 EDITION (IBC) AND 2015 MICHIGAN BUILDING CODE.

2. ALL NEW STRUCTURES AND MODIFICATIONS TO EXISTING STRUCTURES TO BE CONSTRUCTED AS A PART OF THIS PROJECT ARE CLASSIFIED AS OCCUPANT CATEGORY III, WASTE WATER TREATMENT FACILITY, IN ACCORDANCE WITH THE IBC.

3. CONTRACTOR SHALL INCORPORATE ADDITIONAL CONSTRUCTION JOINTS INTO THE STRUCTURE WHERE REQUIRED FOR CONSTRUCTABILITY PURPOSES AND IN COORDINATION WITH THE SEQUENCE OF TEMPORARY SOE BRACING REMOVAL. SUCH CONSTRUCTION JOINTS MAY REQUIRE ADDITIONAL LAP SPLICES TO BE INCLUDED IN THE REINFORCEMENT. MECHANICAL COUPLERS SHALL BE PROVIDED WHERE LAP SPLICES ARE IMPRACTICAL.

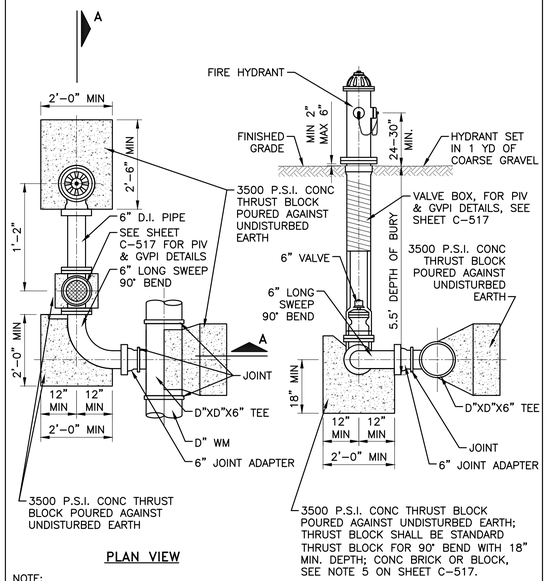
DESIGN CRITERIA

1. DESIGN IN ACCORDANCE WITH THE 2015 EDITION OF THE MICHIGAN BUILDING CODE (2015 INTERNATIONAL BUILDING CODE) AND THE LATEST EDITIONS OF CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES ACI 350 AND ASCE 7, EXCEPT WHERE OTHER APPLICABLE CODES OR THE FOLLOWING NOTES ARE MORE RESTRICTIVE. CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE 2015 MICHIGAN BUILDING CODE AND THE LATEST EDITION OF ASCE 7.

2. LOADINGS:

FLOOR LIVE LOADS:

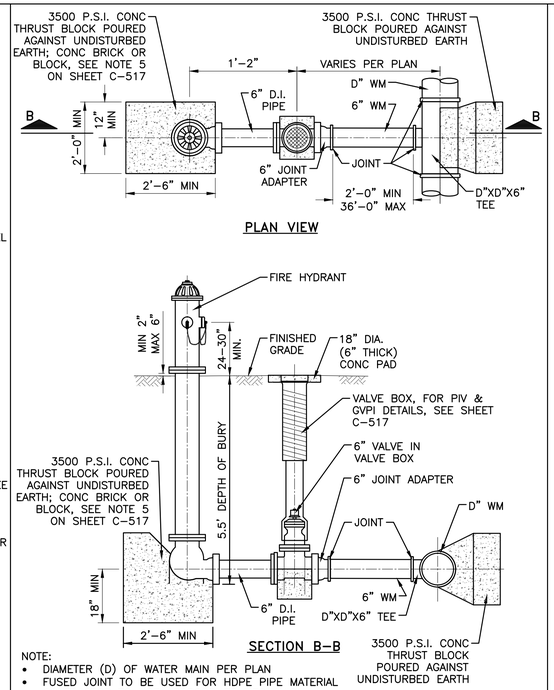
TOP SLAB LIVE LOAD, INACCESSIBLE TO VEHICULAR TRAFFIC (PSF):- - - - - - -300 PSF, UNO
TOP SLAB LIVE LOAD, ACCESSIBLE TO VEHICULAR TRAFFIC: - - - - - - - - - - - - - - -HL-93
PLATFORM AND STAIR LIVE LOAD (PSF): - - - - - - - - - - - - - -



NOTE:
- DIAMETER (D) OF WATER MAIN PER PLAN
- FUSED JOINT TO BE USED FOR HDPE PIPE MATERIAL
- CONTRACTOR TO USE APPROPRIATE MECHANICAL JOINT FOR PVC OR DUCTILE IRON PIPE MATERIAL

STANDARD FIRE HYDRANT ASSEMBLY "P" TYPE DETAIL

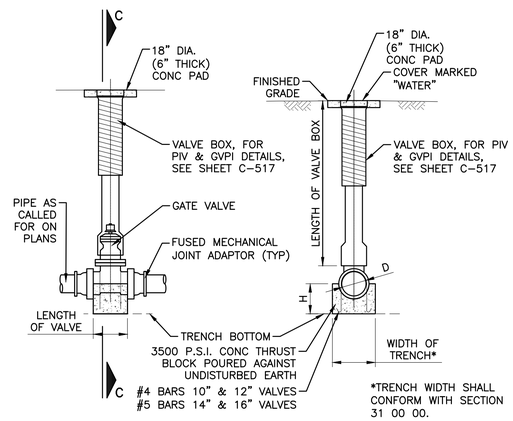
NTS



NOTE:
- DIAMETER (D) OF WATER MAIN PER PLAN
- FUSED JOINT TO BE USED FOR HDPE PIPE MATERIAL
- CONTRACTOR TO USE APPROPRIATE MECHANICAL JOINT FOR PVC OR DUCTILE IRON PIPE MATERIAL

STANDARD FIRE HYDRANT ASSEMBLY "T" TYPE DETAIL

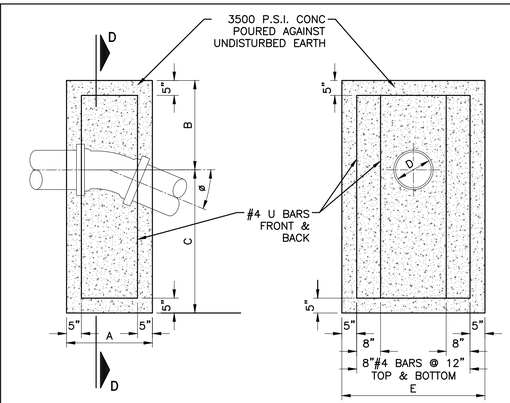
NTS



DIA OF WATER MAIN (D)	THRUST BLOCK DEPTH (H)
6"	6"
8"	8"
10"	10"
12"	12"
16"	16"-18"

VALVE BOX DETAIL

NTS



DIA OF WATER MAIN	ANGLE	THRUST BLOCK			
D	ø	A	B	C	E
6"	22-1/2°	1'-6"	1'-6"	1'-9"	3'-0"
	45°	1'-8"	1'-6"	2'-6"	4'-0"
8"	22-1/2°	2'-0"	1'-6"	2'-6"	4'-0"
	45°	2'-0"	2'-6"	3'-0"	4'-0"
10"	22-1/2°	2'-0"	2'-6"	3'-0"	4'-0"
	45°	2'-3"	2'-6"	4'-0"	5'-0"
12"	22-1/2°	2'-0"	2'-6"	4'-0"	4'-0"
	45°	2'-4"	3'-0"	4'-6"	5'-0"
16"	22-1/2°	2'-2"	3'-0"	4'-6"	5'-0"
	45°	*	*	*	*

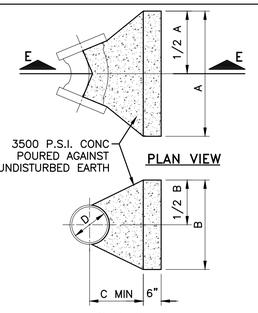
* CONTRACTOR SHALL SUBMIT DETAILS OF RESTRAINED JOINTS TO ENGINEER FOR APPROVAL PRIOR TO USE.

ANCHORAGE DETAILS FOR VERTICAL BENDS

NTS

DIA OF WATER MAIN	THRUST BLOCK		
D	A	B	C
6"	2'-0"	1'-6"	1'-0"
8"	2'-6"	2'-0"	1'-0"
10" & 12"	3'-6"	2'-6"	1'-6"
14" & 16"	5'-6"	3'-0"	1'-9"
18" & 20"	6'-6"	3'-0"	1'-9"
24"	7'-0"	5'-0"	2'-0"

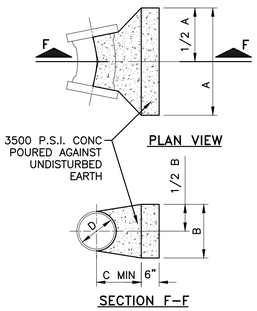
NOTE:
WHEN "A" DIMENSION IS 6'-6" OR GREATER, USE #4 BARS AT 12" CENTERS EACH WAY.



THRUST BLOCK AT 30° & 45° BEND DETAIL

NTS

DIA OF WATER MAIN	THRUST BLOCK		
D	A	B	C
6"	1'-6"	1'-0"	1'-0"
8"	1'-9"	1'-3"	1'-0"
10" & 12"	3'-0"	1'-6"	1'-3"
14" & 16"	4'-0"	2'-0"	1'-6"
18" & 20"	4'-0"	3'-0"	1'-9"
24"	4'-0"	4'-6"	2'-0"

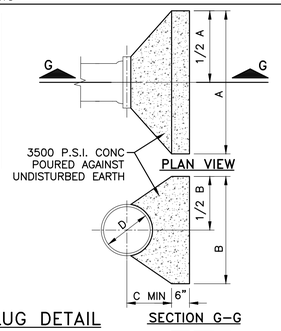


THRUST BLOCK AT 22 1/2° BEND DETAIL

NTS

DIA OF WATER MAIN	THRUST BLOCK		
D	A	B	C
6"	2'-0"	1'-6"	9"
8"	2'-6"	2'-0"	1'-0"
10" & 12"	4'-0"	3'-0"	1'-3"
14" & 16"	5'-0"	4'-0"	1'-6"
18" & 20"	8'-0"	4'-0"	1'-9"
24"	9'-0"	5'-0"	2'-0"

NOTE:
WHEN "A" DIMENSION IS 8'-0" OR GREATER, USE #4 BARS AT 12" CENTERS EACH WAY.

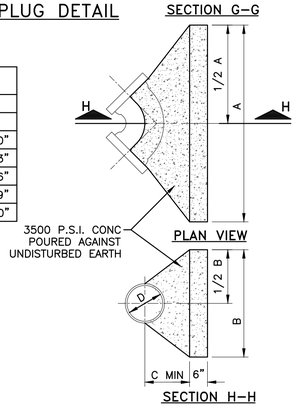


THRUST BLOCK AT PLUG DETAIL

NTS

DIA OF WATER MAIN	THRUST BLOCK		
D	A	B	C
6"	2'-9"	1'-6"	9"
8"	3'-0"	2'-6"	1'-0"
10" & 12"	5'-6"	3'-0"	1'-3"
14" & 16"	6'-0"	5'-0"	1'-6"
18" & 20"	9'-0"	5'-0"	1'-9"
24"	11'-0"	6'-0"	2'-0"

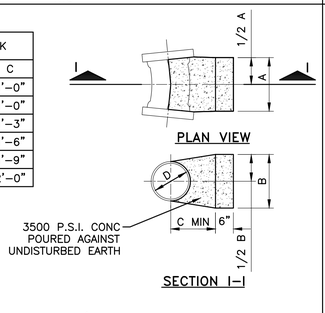
NOTE:
WHEN "A" DIMENSION IS 6'-0" OR GREATER, USE#4 BARS AT 12" CENTERS EACH WAY.



THRUST BLOCK AT 60° & 90° BEND DETAIL

NTS

DIA OF WATER MAIN	THRUST BLOCK		
D	A	B	C
6"	1'-0"	1'-0"	1'-0"
8"	1'-3"	1'-0"	1'-0"
10" & 12"	1'-6"	1'-0"	1'-3"
14" & 16"	2'-0"	2'-0"	1'-6"
18" & 20"	3'-1"	2'-0"	1'-9"
24"	3'-0"	3'-0"	2'-0"

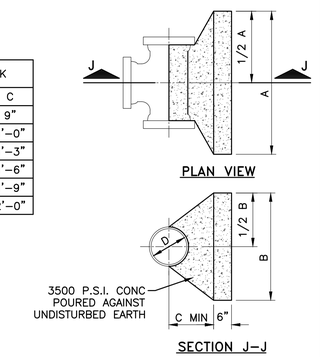


THRUST BLOCK AT 11 1/4° BEND DETAIL

NTS

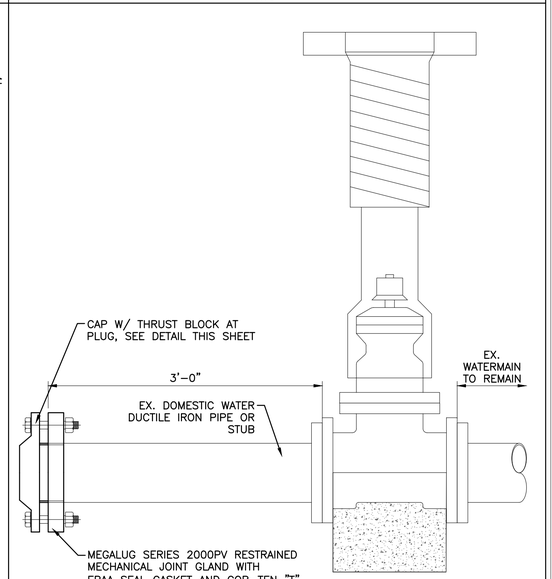
DIA OF WATER MAIN	THRUST BLOCK		
D	A	B	C
6"	2'-0"	1'-6"	9"
8"	2'-6"	2'-0"	1'-0"
10" & 12"	4'-0"	3'-0"	1'-3"
14" & 16"	5'-0"	4'-0"	1'-6"
18" & 20"	8'-0"	4'-0"	1'-9"
24"	9'-0"	5'-0"	2'-0"

NOTE:
WHEN "A" DIMENSION IS 8'-0" OR GREATER, USE #4 BARS AT 12" CENTERS EACH WAY.



THRUST BLOCK AT TEE DETAIL

NTS



NOTE:

THE CONTRACTOR MAY BE ALLOWED TO INSTALL AN INSERTION VALVE W/ VALVE BOX IF APPROVED BY THE OWNER OR OWNER'S REPRESENTATIVE.

RESTRAINED PLUG- DETAIL

NTS

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ERICH VINCENT SMITH
ENGINEER
NO. 45687
LICENSED PROFESSIONAL ENGINEER

FORDLAND

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DEARBORN, MICHIGAN 48120-1168
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MARSHALL CALHOUN CO. MI

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08/31/23	BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT

A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

STANDARD DOMESTIC WATER DETAILS 1

SHEET NUMBER

C-516

C:\Users\mdevadasan\DCACD\Docs\Wade Trim\FRD\2011-06F Project Hickory\Project Files\01 Design\Civil 3D\Phase 01\Plan Sheets\Shallow Utilities\Shallow Utilities\1000112-C-001-C-C516-ADETAILS.dwg

SAVE DATE 9/22/2023 11:42:38 AM DEVADASAN, MALU

PLOT DATE 9/22/2023 8:03:21 AM

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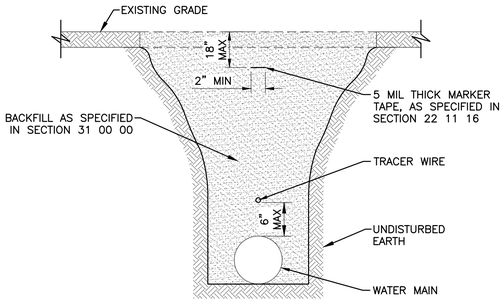
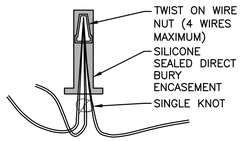


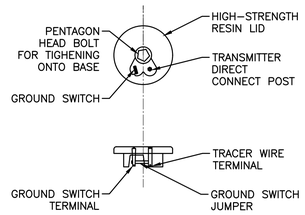
TRACER WIRE TRENCH PLACEMENT



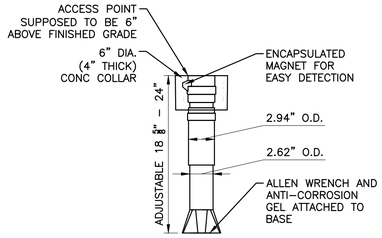
SPLICE CONNECTOR

NOTES:
1. TRACER WIRE TO BE CONTINUOUS FROM END TO END AND TO BE BROUGHT TO THE TOP OF EACH TRACER WIRE ACCESS POINT FOR EACH SECTION OF WATER MAIN.
2. WIRE SHALL BE CONTINUITY TESTED AFTER INSTALLATION. ANY WIRE WHICH FAILS THE CONTINUITY TEST SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.

TRACER WIRE DETAIL
NTS



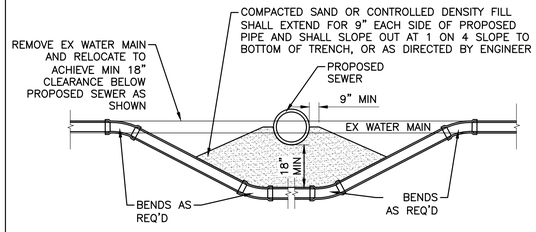
TRACER WIRE ACCESS POINT TWO-TERMINAL SWITCHABLE LID



TRACER WIRE ACCESS POINT BASE

NOTES:
1. IF TRACER WIRE ACCESS POINT IS BLOCKED BY GROUND VALVE INDICATOR COLLAR, TRACER WIRE ACCESS POINT TO BE EMBEDDED IN VALVE POSITION INDICATOR CONCRETE COLLAR.

TRACER WIRE ACCESS POINT DETAIL
NTS

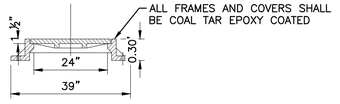


NOTE:
FOR ANCHORAGE DETAILS AT VERTICAL BENDS, SEE DETAIL ON SHEET C-516

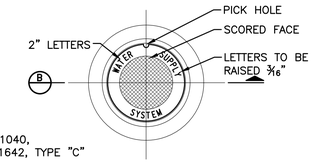
WATER MAIN RELOCATION DETAIL
NTS

WATER MAIN NOTES

1. PROVIDE 6-FOOT MINIMUM COVER BELOW EXISTING ROAD CENTERLINE OR GROUND AT WATER MAIN LOCATION, WHICHEVER IS LOWEST, UNLESS OTHERWISE NOTED.
2. PLACE NATURAL SAND FINE AGGREGATE BACKFILL WITHIN 3 FEET OF ALL STRUCTURES, INCLUDING VALVE BOXES, FIRE HYDRANTS, ETC.
3. ALL WATER MAIN PIPE SHALL HAVE CLASS II BEDDING UNLESS OTHERWISE NOTED ON THE PLANS.
4. ALL PRECAST PRODUCTS (THAT APPLY) SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-478.
5. THRUST BLOCK TABLES ARE BASED ON SOIL BEARING OF 1500 PSF. IN MUCK, PEAT OR OTHER UNSUITABLE SOILS HAVING A SOIL BEARING LESS THAN 1500 PSF, THE CONTRACTOR SHALL PROVIDE SUITABLE ADDITIONAL BLOCKING, ENCASEMENTS OR RESTRAINTS. BLOCKING IN BORE PIT EXCAVATIONS SHALL BE AGAINST UNDISTURBED SOIL OR SHALL BE PROVIDED WITH RESTRAINTS AS REQUIRED.
6. THRUST RESTRAINER REQUIRED AT HDPE CONNECTIONS TO ALL EXISTING DUCTILE IRON WATER MAINS. SEE HDPE THRUST RESTRAINER DETAIL THIS SHEET.
7. WHERE THERE IS A TRANSITION IN PIPE MATERIAL FROM HDPE TO EXISTING DUCTILE IRON, THE TRACER WIRE IS TO CONTINUE THROUGH TO THE NEXT APPURTENANCE INLINE.



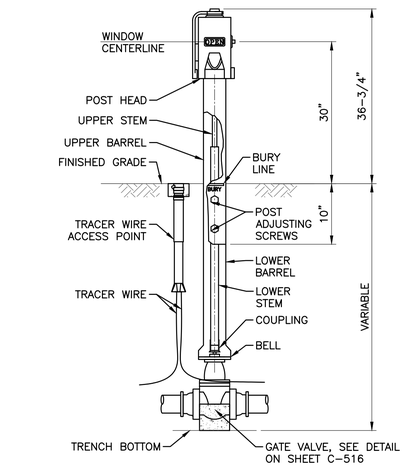
SECTION B



E.J.I.W. #1040,
NEENAH #R1642, TYPE "C"
OR EQUAL

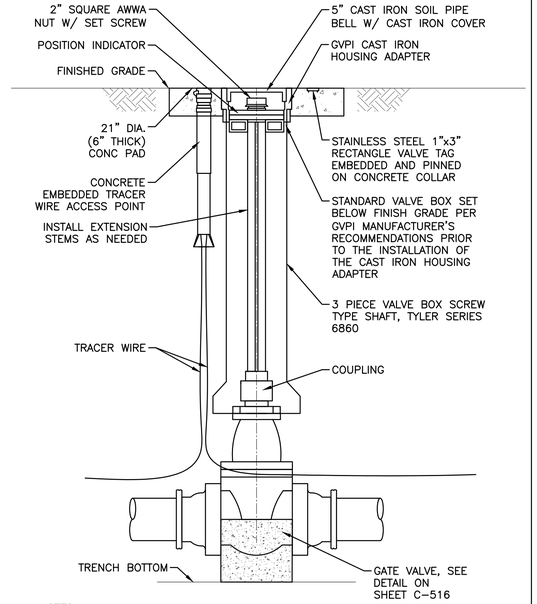
PLAN VIEW

VALVE WELL FRAME AND COVER DETAIL
NTS



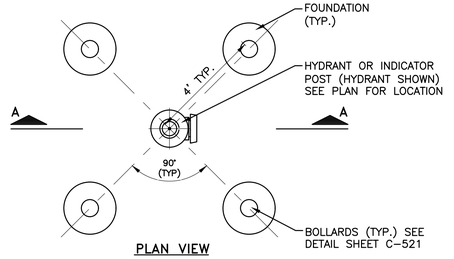
NOTE:
CLEARANCE OF SEVEN AND ONE HALF FEET IN FRONT OF AND TO THE SIDES OF FIRE HYDRANTS AND POST INDICATOR VALVES SHALL BE MAINTAINED. CLEARANCE OF FOUR FEET TO THE REAR OF FIRE HYDRANTS SHALL BE MAINTAINED.

PIV GATE VALVE DETAIL
N.T.S.



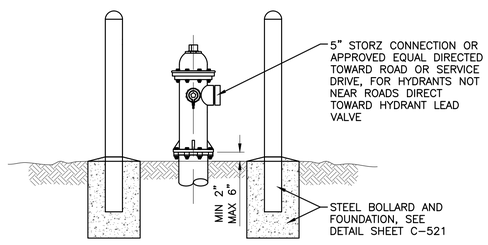
NOTES:
1. CLEARANCE OF SEVEN AND ONE HALF FEET IN FRONT OF AND TO THE SIDES OF FIRE HYDRANTS AND APPLIANCES SHALL BE MAINTAINED. CLEARANCE OF FOUR FEET TO THE REAR OF FIRE HYDRANTS SHALL BE MAINTAINED.
2. ALL DOMESTIC WATER VALVES SHALL BE GVPI, EXCEPT AT SERVICE LEADS. SERVICE LEADS SHALL BE PIV GATE VALVES, SEE DETAIL THIS SHEET

GROUND VALVE POSITION INDICATOR DETAIL
N.T.S.



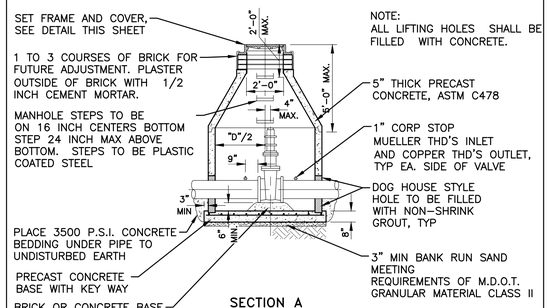
PLAN VIEW

NOTE:
GUARD POSTS SHALL BE PLACED IN ARRANGEMENT SHOWN ABOVE OR AS SHOWN ON PLANS, IF DIFFERENT FROM ABOVE, TO PROVIDE PROTECTION OF FIRE HYDRANTS

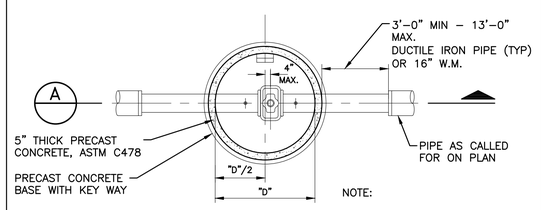


SECTION A-A

STANDARD GUARD POST PLACEMENT DETAIL FOR FIRE HYDRANTS & POST INDICATING VALVES (PIV)
NTS



SECTION A



PLAN VIEW

NOTE:
PRECAST CONCRETE WELL SECTIONS SHALL BE MANUFACTURED IN ACCORDANCE WITH A.S.T.M. C478 UNLESS OTHERWISE SPECIFIED

"D"= 6'-0" FOR 8"-12" W.M.
"D"= 7'-0" FOR 16" W.M.

STANDARD GATE WELL DETAIL
NTS

Know what's below. Call before you dig.

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

FORDLAND
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DEARBORN, MICHIGAN 48120-1168
USA
Ford

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FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE
STANDARD DOMESTIC WATER DETAILS 2

SHEET NUMBER
C-517

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STORM SEWER STRUCTURE TABLE

STR. #	SIZE	RIM	INVERTS	NORTHING	EASTING
CB–E04–01	84"	915.75	W 60" 904.67 E 60" 904.67 S 12" 911.45	279529.10	12942884.04
CB–E04–02	84"	915.75	W 60" 904.87 E 48" 905.87 S 12" 911.45 NE 30" 906.37	279529.10	12943084.09
CB–E04–03	72"	915.75	E 48" 906.27 W 48" 906.27 S 12" 911.45	279529.10	12943284.05
CB–E04–04	48"	913.50	SW 30" 907.20	279808.27	12943379.19
CB–E05–01	72"	915.75	W 48" 906.67 E 48" 906.67 N 18" 910.00 S 12" 910.50	279529.12	12943484.06
CB–E05–02	72"	915.75	E 42" 907.39 W 48" 907.39 N 18" 910.00 S 12" 911.45	279529.12	12943846.06
CB–E05–03	72"	915.75	E 42" 907.79 W 42" 907.79 N 18" 910.00 S 12" 911.45	279529.13	12944046.06
CB–E05–04	72"	915.75	W 42" 908.19 NE 18" 910.00 S 12" 910.50	279529.13	12944246.06
CB–E06–01	48"	915.75	E 24" 909.47 S 12" 911.45	279529.13	12944446.06
CB–E06–02	102"	915.75	W 24" 909.07 E 36" 908.07 N 18" 910.00 S 12" 911.45	279529.14	12944646.06
CB–E06–03	102"	915.75	E 42" 907.67 W 36" 907.67 N 18" 910.00 S 12" 911.45	279529.14	12944846.06
CB–E06–04	48"	915.75	E 42" 907.27 W 42" 907.27 S 12" 911.45	279529.15	12945046.06
CB–E07–01	48"	915.75	E 54" 905.87 W 42" 906.87 NW 18" 910.00	279529.15	12945246.06
CB–E07–02	48"	918.21	NW 18" 910.00 E 54" 905.35 W 54" 905.35	279529.15	12945407.93
CB–E07–03	48"	915.75	E 60" 904.35 W 54" 904.95 NW 18" 910.00 S 12" 911.45	279529.16	12945608.06
CB–E07–04	48"	915.75	E 60" 904.35 W 60" 903.95 S 12" 911.45 NW 18" 910.00	279529.16	12945808.06
CB–E07–05	48"	915.75	W 60" 903.95 E 60" 903.55 NW 18" 911.00 S 12" 911.40	279529.16	12946008.06
CB–E08–01	48"	915.75	E 66" 902.65 W 60" 903.15 NW 18" 910.00 S 12" 911.33	279529.17	12946208.06
CB–E08–02	48"	915.75	W 66" 902.25 E 66" 902.25 NW 18" 910.00 S 12" 911.36	279529.17	12946408.06
CB–E08–03	48"	915.75	W 66" 901.85 E 66" 901.85 NW 18" 910.00 S 12" 911.36	279529.18	12946608.06

STORM SEWER STRUCTURE TABLE

STR. #	SIZE	RIM	INVERTS	NORTHING	EASTING
CB–E08–04	48"	915.75	E 72" 901.13 W 66" 901.13 NW 18" 910.00 S 12" 911.36	279529.18	12946970.06
CB–E09–01	48"	915.75	S 12" 911.33 W 72" 900.73 SE 84" 900.73	279529.15	12947169.93
CB–E09–02	102"	915.06	SW 18" 910.00	279506.39	12947364.38
CB–F04–03	72"	916.50	W 54" 908.94 E 48" 909.44	280433.70	12943250.49
CB–F05–25	48"	917.31	N 30" 910.86 S 30" 910.86	280524.74	12943674.82
CB–F05–26	48"	919.48	SE 24" 911.45	280480.41	12944087.87
CB–F06–27	48"	919.76	SE 18" 911.00	280480.43	12944337.27
CB–F07–26	48"	917.73	S 18" 913.50	280480.68	12945263.28
CB–G04–11	48"	917.00	E 24" 911.93	280832.19	12943393.29
CB–G05–01	48"	917.31	S 30" 911.36 W 24" 911.36	280775.11	12943674.88
CB–G05–02	60"	918.00	E 54" 909.47	280929.10	12943905.44
CB–G05–03	60"	918.00	W 54" 908.92 E 60" 908.42	280929.10	12944180.46
CB–G06–01	96"	918.00	E 66" 907.87 W 60" 907.87	280929.10	12944455.49
CB–G06–02	48"	918.00	W 66" 907.60 E 72" 907.60	280929.10	12944730.30
CB–G06–03	48"	918.00	E 72" 907.32 W 72" 907.32	280928.88	12945005.48
CB–G07–01	48"	918.00	E 72" 907.05 W 72" 907.05	280929.10	12945280.28
CB–G07–02	48"	918.00	W 72" 906.21 E 84" 905.21	280929.10	12945555.33
CB–G07–03	48"	918.00	E 84" 904.93 W 84" 904.93	280929.10	12945830.47
CB–G08–01	48"	918.00	W 84" 904.66 E 84" 904.66	280929.10	12946105.08
CB–G08–02	48"	916.57	E 84" 904.38 W 84" 904.38	280929.10	12946380.80

STORM SEWER STRUCTURE TABLE

STR. #	SIZE	RIM	INVERTS	NORTHING	EASTING
CB–G08–03	48"	915.77	E 84" 904.11 W 84" 904.11	280929.10	12946655.51
CB–G08–04	48"	920.45	E 180" 903.84 W 84" 903.84	280929.10	12946930.51
CB–J02–02	48"	918.89	N 120" 906.60 S 120" 906.60	281976.31	12941092.24
CB–J02–03	96"	919.60	N 120" 906.80 S 120" 906.80	282031.70	12941092.20
CB–J02–04	96"	917.17	S 120" 907.00	282107.32	12941091.26
CB–J07–02	96"	916.25	N 72" 908.50 S 72" 908.50	281950.45	12945877.18
CB–J07–03	96"	915.15	N 72" 909.00 S 72" 909.00	282029.49	12945877.18
CB–J07–04	96"	914.12	S 72" 909.50	282105.21	12945877.18
HW–D02–02		911.08	N 84" 903.00	279161.68	12941571.42
HW–D02–01		911.82	NW 216" 903.00	279154.11	12941302.44
HW–D09–01		908.82	N 216" 900.00	279253.45	12947427.11
HW–D09–02		908.08	NW 84" 900.00	279247.45	12947402.61
MH–D02–03	48"	918.37	NW 216" 903.39 SE 216" 903.39 SW 24" 908.00	279372.12	12941000.33
MH–E01–01	48"	918.68	S 216" 904.06 N 204" 904.06	279924.75	12940680.41
MH–E02–01	48"	918.58	SE 216" 903.63 N 216" 903.63	279509.98	12940809.28
MH–E02–03	48"	918.00	S 84" 903.36 E 84" 903.36	279529.10	12941571.47
MH–E03–01	102"	918.00	W 84" 903.69 E 72" 903.69	279529.10	12941901.27
MH–E03–02	96"	918.00	W 72" 904.19 E 60" 904.19	279529.10	12942399.27
MH–E09–03	48"	914.00	S 216" 900.88 N 216" 900.88	279691.78	12947427.11
MH–E09–04	48"	917.65	N 216" 900.33 S 216" 900.33 E 36" 900.77	279416.96	12947427.11

STORM SEWER STRUCTURE TABLE

STR. #	SIZE	RIM	INVERTS	NORTHING	EASTING
MH–E09–05	48"	918.20	NW 84" 900.45 SE 84" 900.45 NE 18" 909.00	279420.27	12947258.71
MH–F01–01	48"	918.73	S 204" 904.56 E 84" 904.56 N 204" 904.56 W 36" 906.33	280424.75	12940680.41
MH–F02–01	48"	915.50	W 84" 905.08 E 84" 905.08	280425.45	12941196.84
MH–F02–02	48"	916.00	W 84" 905.43 E 84" 905.43	280427.07	12941546.31
MH–F03–01	102"	917.00	W 84" 905.78 E 72" 905.78	280428.25	12941897.62
MH–F03–02	48"	917.50	W 72" 906.14 E 72" 906.14	280429.72	12942260.17
MH–F04–01	102"	918.50	W 72" 906.53 E 60" 907.53	280431.31	12942651.94
MH–F04–02	84"	917.00	W 60" 907.80 E 54" 908.30	280432.42	12942925.86
MH–F05–01	84"	918.78	E 42" 910.22 W 48" 910.22 N 30" 910.59 SE 18" 910.00	280395.10	12943630.49
MH–F05–02	60"	917.52	W 42" 910.75 S 24" 910.75	280395.07	12943905.49
MH–F05–03	84"	917.52	E 36" 910.05 NW 24" 911.05 S 18" 910.00	280395.10	12944180.49
MH–F06–01	84"	917.52	W 36" 909.40 E 42" 908.90 NW 18" 910.50 S 18" 910.00	280395.10	12944455.49
MH–F06–02	84"	917.52	E 48" 907.85 W 42" 908.35 SW 18" 910.00	280395.10	12944730.49
MH–F06–03	84"	917.52	W 48" 907.30 E 54" 907.30 S 18" 910.00	280395.10	12945005.49
MH–F07–01	84"	917.52	E 54" 906.75 W 54" 906.75 N 18" 912.50 S 18" 910.00	280395.10	12945280.49
MH–F07–02	102"	917.52	E 60" 906.06 W 54" 906.20 S 18" 910.00	280395.10	12945555.49
MH–F07–03	48"	917.52	W 60" 905.51 E 66" 905.51 S 18" 910.00	280395.10	12945830.49
MH–F08–01	102"	917.52	E 72" 904.96 W 66" 904.96 S 18" 910.00	280395.10	12946105.49
MH–F08–02	48"	917.52	W 72" 904.41 E 72" 904.41 S 18" 910.00	280395.10	12946380.49
MH–F08–03	48"	917.52	E 84" 903.85 W 72" 903.85	280395.10	12946655.49

STORM SEWER STRUCTURE TABLE

STR. #	SIZE	RIM	INVERTS	NORTHING	EASTING
MH–F08–04	48"	917.56	E 84" 903.29 W 84" 903.29	280395.10	12946933.47
MH–F09–01	48"	913.45	E 84" 902.47 W 84" 902.47	280395.10	12947344.25
MH–F09–02	48"	914.00	S 192" 902.29 W 84" 902.29 N 180" 902.29 E 48" 902.95	280394.94	12947433.91
MH–F09–05	48"	914.00	S 216" 901.62 N 192" 901.62 W 30" 905.50	280060.58	12947430.68
MH–G09–01	48"	918.76	N 84" 903.36 W 180" 903.36 S 180" 903.36	280929.10	12947415.45
MH–G09–02	48"	918.60	S 180" 902.92 N 180" 902.92 NE 54" 903.00	280719.50	12947415.44

NOTE:
ANY SIZE OVER 84" IS THE SPAN
OF A BOX CULVERT. REFER TO
PLANS FOR SIZE OF BOX CULVERTS.

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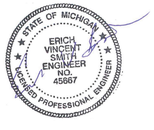

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08/31/23	• BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT

A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

STORM SEWER STRUCTURE TABLES

SHEET NUMBER

C-601

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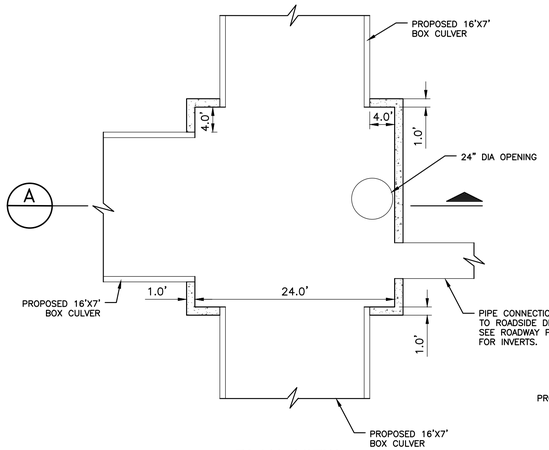
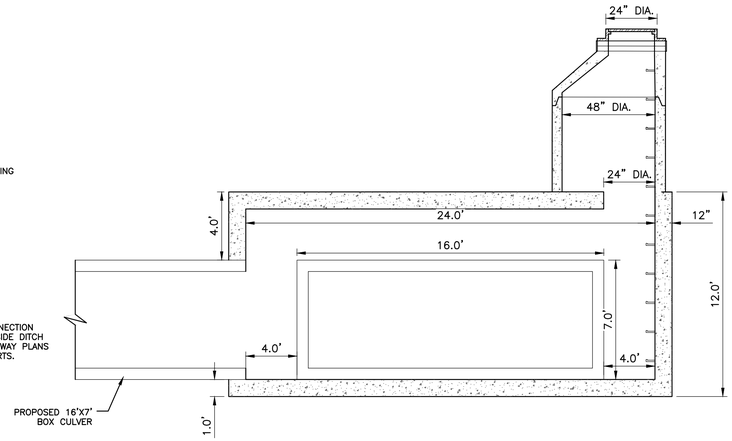


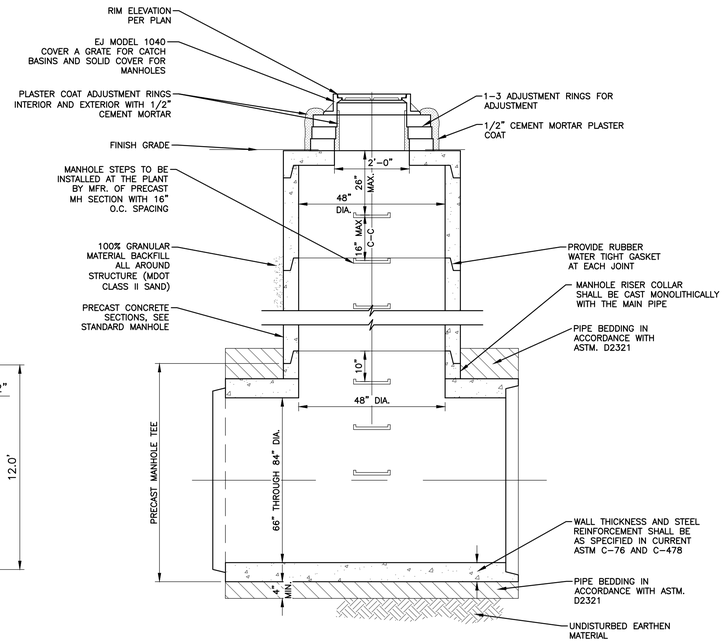
PLAN VIEW



SECTION A

STRUCTURE MH-F02-01 DETAIL

NOT TO SCALE



PRECAST STORM MANHOLE TEE

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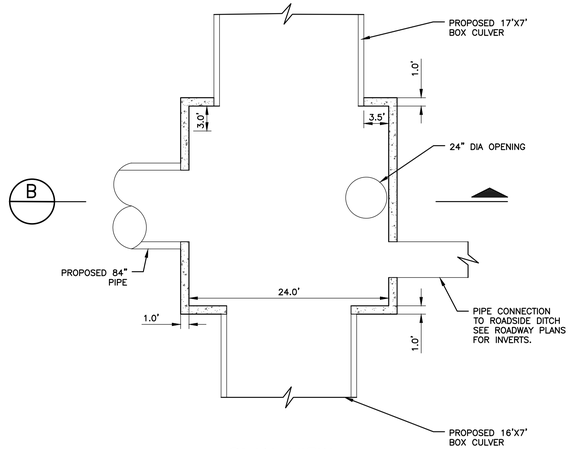
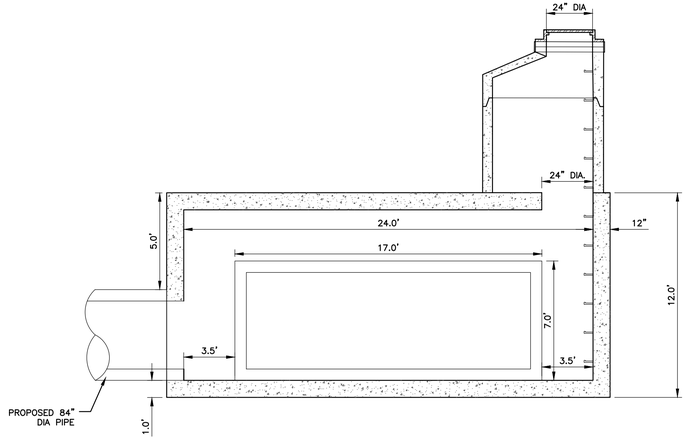


PLAN VIEW



SECTION B

STRUCTURE MH-F09-02 DETAIL

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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

WT
STORMWATER DETAILS

SHEET NUMBER

C-701

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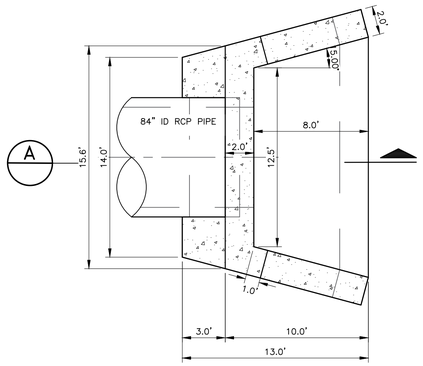

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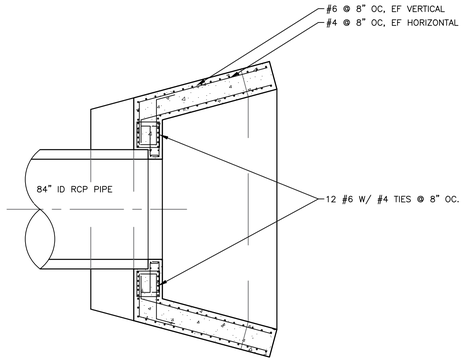
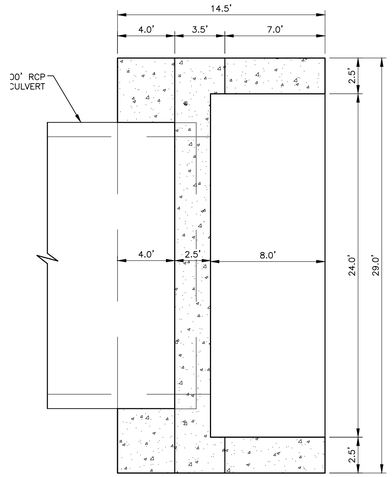


SECTION A



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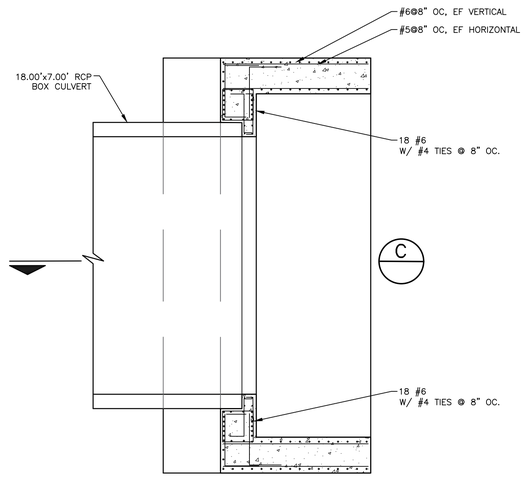

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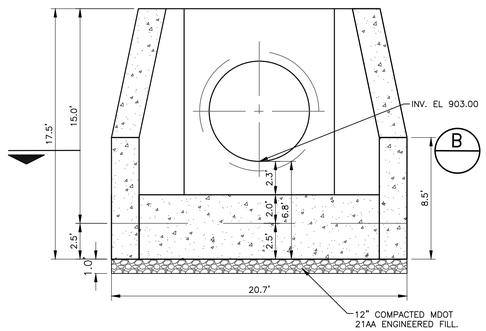
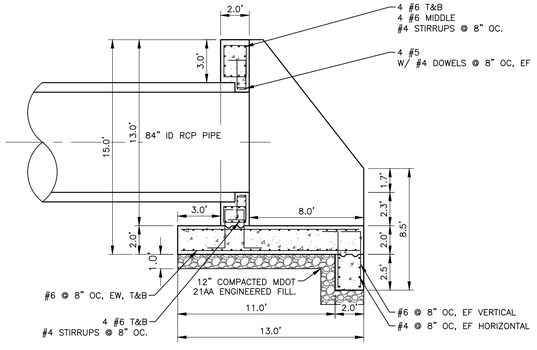
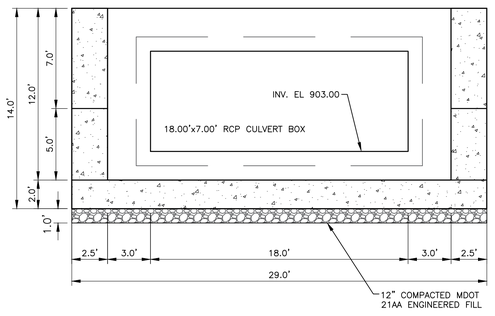


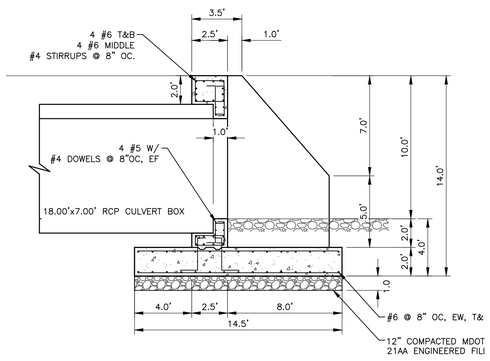
ELEVATION VIEW



SECTION B



ELEVATION VIEW



SECTION C

STRUCTURE HW-D02-02 DETAIL
NOT TO SCALE

STRUCTURE HW-D02-01 DETAIL
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NOTES:
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DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

WT
STORMWATER DETAILS

SHEET NUMBER

C-702

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
REGISTERED PROFESSIONAL ENGINEER

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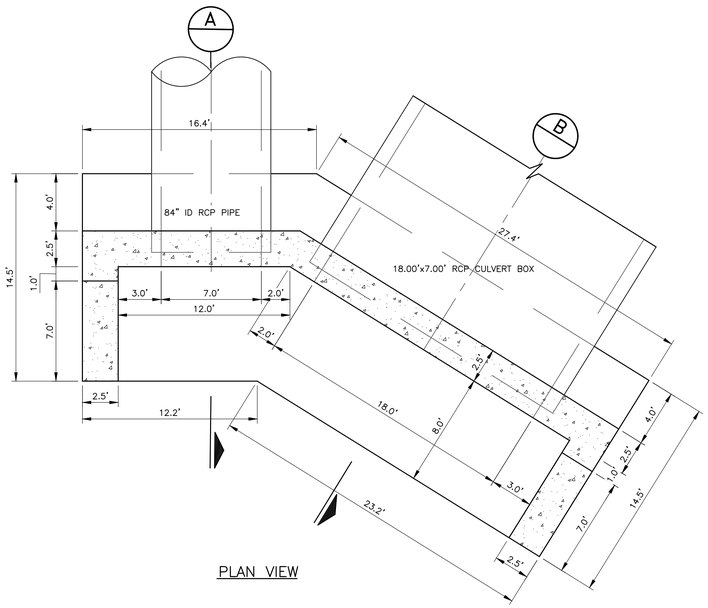
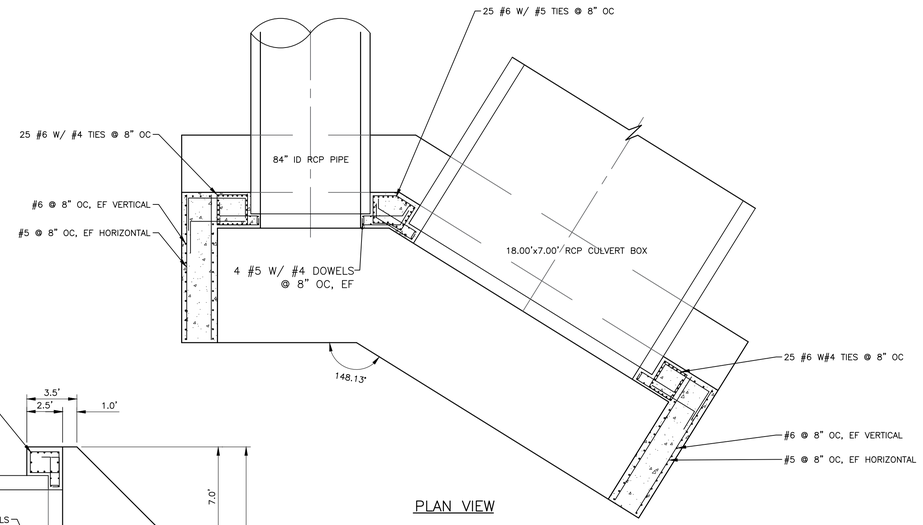


PLAN VIEW



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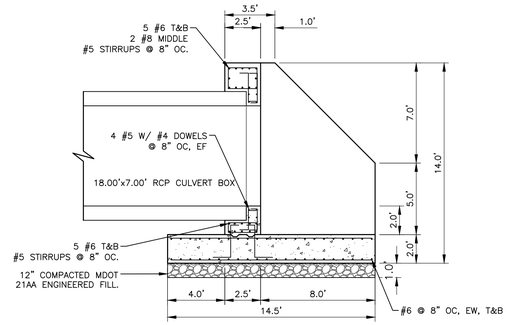
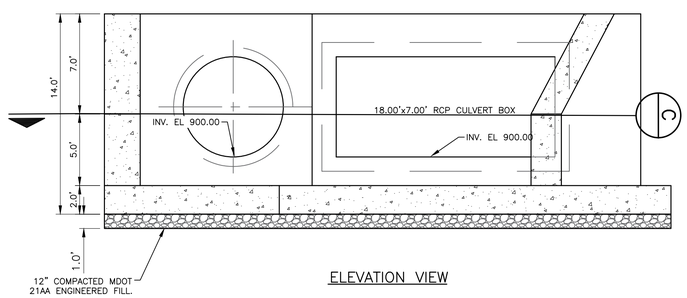
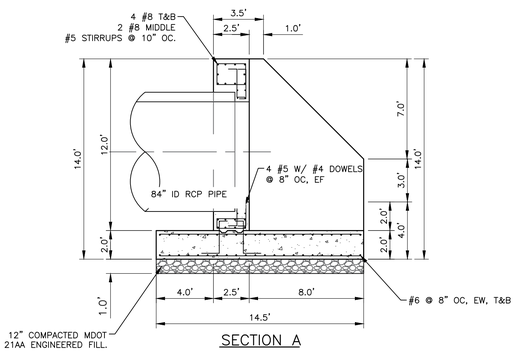


SECTION B



ELEVATION VIEW



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CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

WT
STORMWATER DETAILS 3

SHEET NUMBER

C-703

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
REGISTERED PROFESSIONAL ENGINEER

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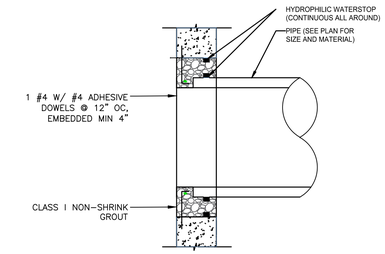

POST-INSTALLED PIPE PENETRATION DETAIL
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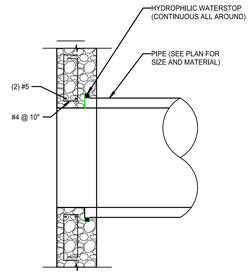

CAST-IN PIPE PENETRATION DETAIL
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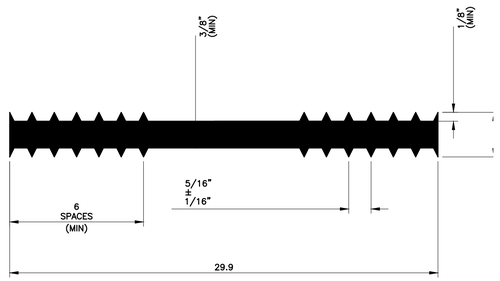
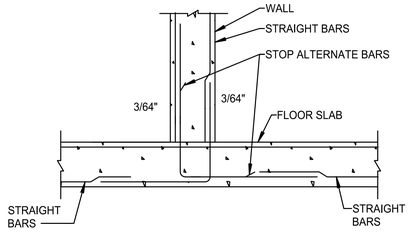
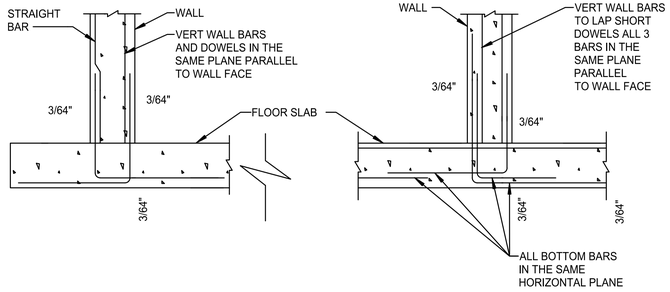
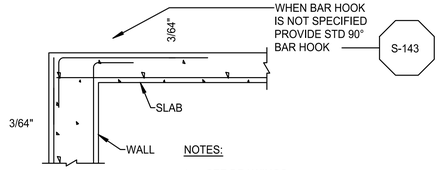


WATERSTOPS AT CONSTRUCTION JOINT DETAIL
NOT TO SCALE

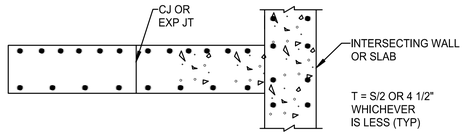






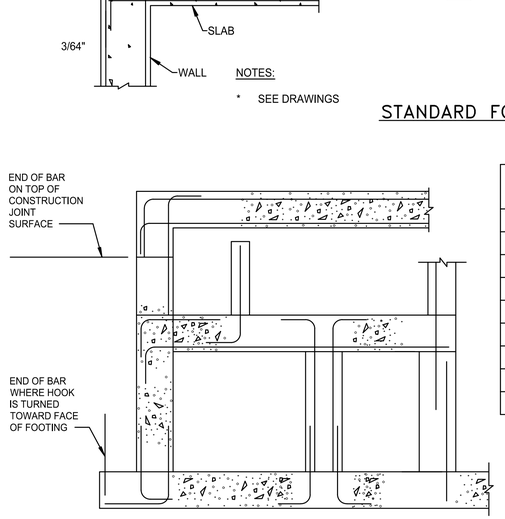
NOTES:

* SEE DRAWINGS



WALL OR SLAB DETAIL

STANDARD FOR REINFORCING BAR DETAILING
NOT TO SCALE

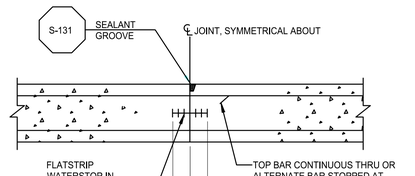


BAR SIZE	CLASS "B" LAP SPLICE		COMPRESSION LAP SPLICE	TENSION DEVELOPMENT		COMPRESSION DEVELOPMENT	HOOK DEVELOPMENT
	f'c=5,000PSI	f'c=6,000PSI	f'c=5,000PSI OR 6,000PSI	f'c=5,000PSI OR 6,000PSI		f'c=5,000PSI OR 6,000PSI	
#3	1'-5" (1'-10")	1'-3" (1'-8")	1'-0"	1'-1" (1'-5")	1'-0" (1'-3")	0'-8"	6"
#4	1'-10" (2'-5")	1'-8" (2'-2")	1'-3"	1'-5" (1'-10")	1'-3" (1'-8")	0'-9"	8"
#5	2'-4" (3'-0")	2'-1" (2'-9")	1'-7"	1'-9" (2'-4")	1'-7" (2'-1")	0'-11"	10"
#6	2'-9" (3'-7")	2'-6" (3'-3")	1'-11"	2'-1" (2'-9")	1'-11" (3'-8")	1'-2"	12"
#7	4'-1" (5'-3")	3'-8" (4'-9")	2'-2"	3'-1" (4'-0")	2'-10" (3'-8")	1'-4"	14"
#8	4'-8" (6'-0")	4'-2" (5'-5")	2'-6"	3'-6" (4'-7")	3'-3" (4'-2")	1'-6"	16"
#9	5'-3" (6'-9")	4'-9" (6'-2")	2'-10"	4'-0" (5'-2")	3'-8" (4'-9")	1'-8"	19"
#10	5'-10" (7'-7")	5'-4" (6'-11")	3'-2"	4'-6" (5'-10")	4'-1" (5'-4")	1'-11"	22"
#11	6'-6" (8'-5")	5'-11" (7'-8")	3'-6"	5'-0" (6'-6")	4'-7" (5'-11")	2'-1"	24"

NOTES:

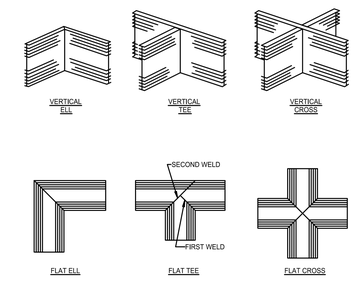
1. USE LAP LENGTHS AS DETERMINED FROM THESE TABLES UNLESS SHOWN OTHERWISE.
2. MULTIPLY THE LAP AND E SHOWN IN THESE TABLES BY 1.5 FOR EPOXY COATED REINFORCING.
3. WHEN BARS OF DIFFERENT SIZES ARE LAP SPLICED, LAP LENGTH SHALL BE THE LARGER OF:
   - EMBEDMENT LENGTH OF LARGER
   - BAR/LAP LENGTH OF SMALLER BAR
4. UNLESS NOTED OTHERWISE USE REBAR COUPLERS FOR SPLICES OF #11 BARS.
5. ALL DOWEL BARS SHALL EXTEND AN EMBEDMENT LENGTH INTO ANOTHER MEMBER OR ACROSS A CONSTRUCTION JOINT UNLESS SHOWN TO SPLICE WITH OTHER BARS OR TO EXTEND TO THE END WITH A STANDARD HOOK.
6. USE LENGTH IN PARENTHESIS FOR WALL HORIZONTAL REBARS AND SLAB BARS WITH 12" OR MORE OF FRESH CONCRETE UNDERNEATH

STANDARD 90 BAR HOOKS-EMBEDMENT DETAIL
NOT TO SCALE



* IN THE CASE SLAB IS UNDERGROUND IN DIRECT CONTACT WITH SOIL OR IF IT IS WATER RETAINING.

SUSPENDED SLAB CONSTRUCTION JOINT DETAIL
NOT TO SCALE



PREFABRICATED WATERSTOP JOINTS DETAIL
NOT TO SCALE

NOTES:
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A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

WT
STORMWATER DETAILS 4

SHEET NUMBER

C-704

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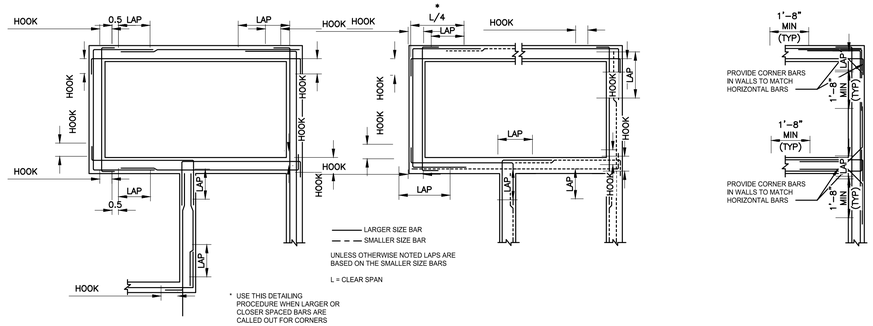
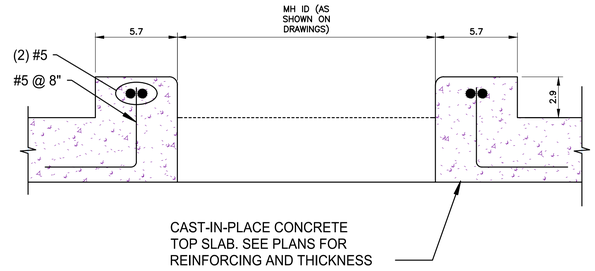
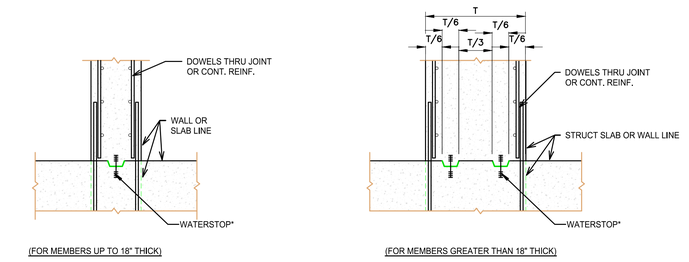
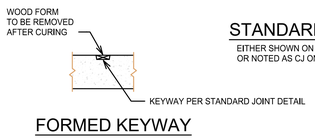


HORIZONTAL REINFORCEMENT AT WALL INTERSECTIONS
NOT TO SCALE



MANHOLE COVER AT GRADE DETAIL
NOT TO SCALE



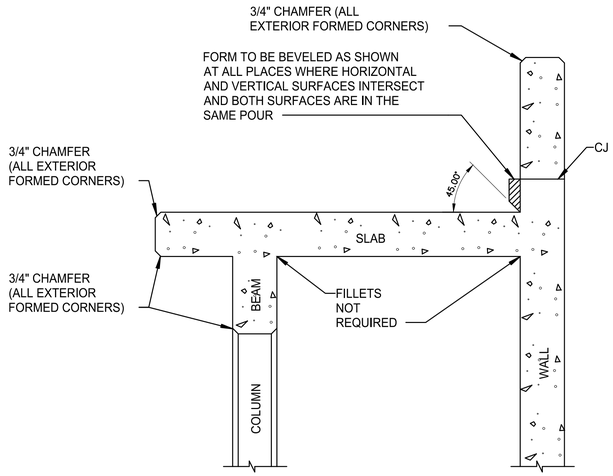


FORMED KEYWAY

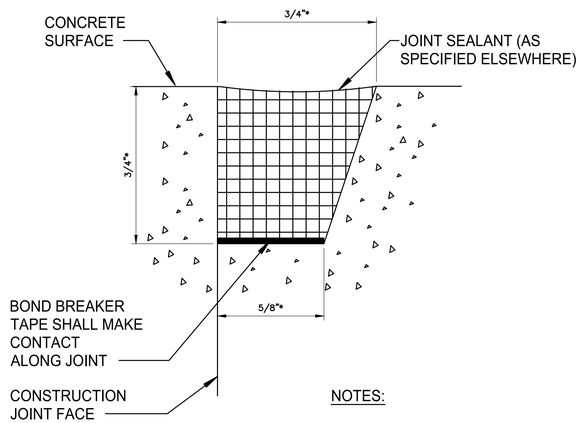
STANDARD JOINT
EITHER SHOWN ON SECTION OR NOTED AS CJ ON PLAN

NOTES*:
1. FLATSTRIP WATERSTOP SHALL BE USED IN ALL UNDERGROUND STRUCTURES IN THIS PROJECT.
2. BENTONITE WATERSTOP (NSF 61 CERTIFIED) MAY BE USED AT ALL OTHER JOINTS IN CAST-IN-PLACE CONCRETE CONSTRUCTION.
3. ALL UNFORMED SURFACES WHERE WATERSTOP IS TO BE ADHERED, SHALL HAVE A FLOATED FINISH.
4. ALL KEYWAYS SHALL BE CONSTRUCTED USING WOOD FORM EMBEDDED IN PLASTIC CONCRETE AND REMOVED AFTER CURING.

STANDARD JOINT
NOT TO SCALE



FORMING DETAILS
NOT TO SCALE



NOTES:
1. ALL FLOOR JOINTS OF HYDRAULIC STRUCTURES (MEMBERS COVERED WITH WATER) SHALL HAVE A SEALANT GROOVE
2. SANDBLASTING REQUIRED PRIOR TO APPLICATION OF PRIMER

SEALANT GROOVE DETAIL
NOT TO SCALE

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ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

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IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

WT
STORMWATER DETAILS 5

SHEET NUMBER

C-705

PLOT DATE: 9/22/2023 8:03:46 AM SAVE DATE: 9/20/2023 3:29:34 PM DEVADASAN, MALU C:\Users\mdevadasan\DCACC\Docs\Wade Trim\FRD\2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\250000v2-C-DTLS-WADE.dwg

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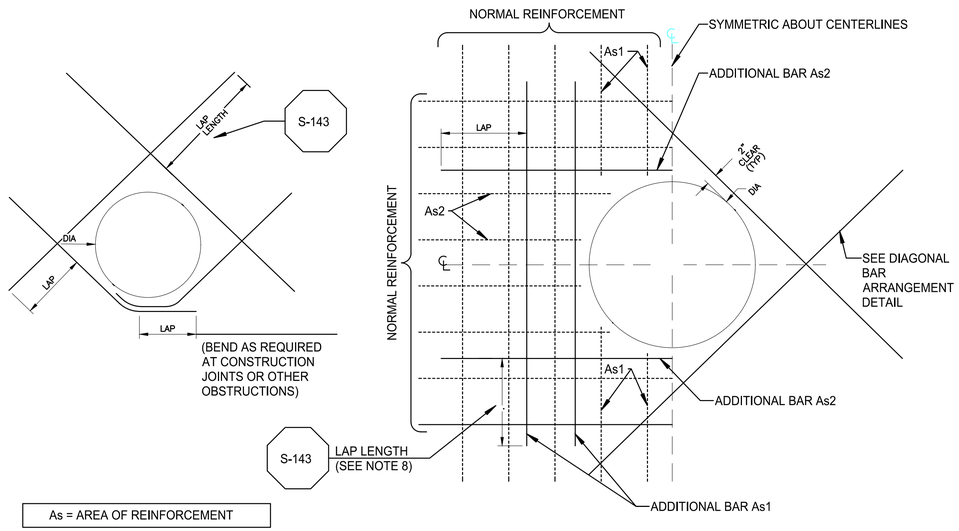
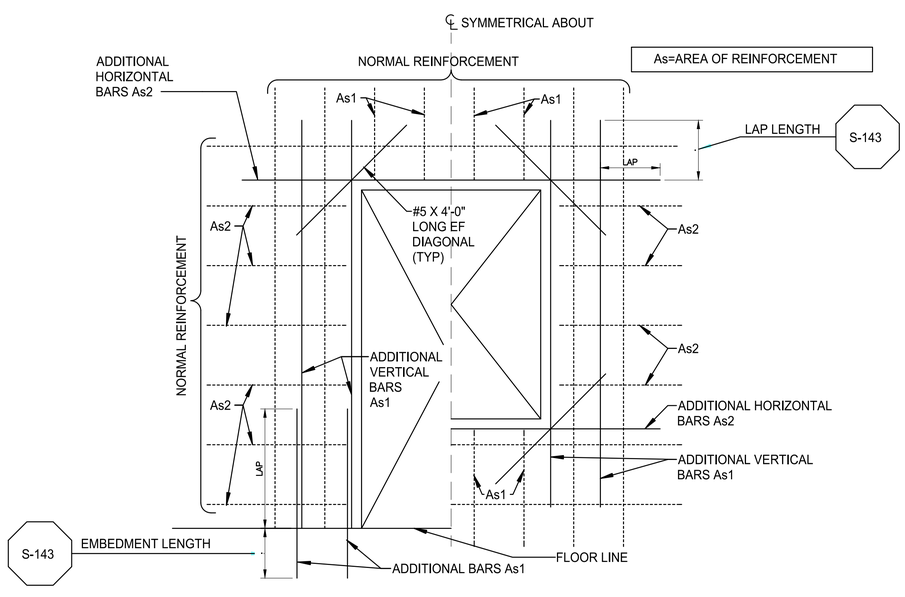


NOTES:

1. THIS DETAIL IS TO BE USED AT ALL CIRCULAR OPENINGS EXCEPT WHEN OTHER DETAILING IS INDICATED ON THE DRAWINGS.
2. CUT NORMAL REINFORCEMENT 2" CLEAR OF OPENING.
3. CUT NORMAL REINFORCEMENT AT OPENINGS:
   A. As1 AND As2 = 1/2 AREA OF TOTAL CUT BARS TO BE ADDED ON EACH SIDE OF OPENING.
4. DIAGONAL AND ADDITIONAL BARS As1 AND As2 TO BE PLACED.
   A. AT CENTERLINE OF WALLS OR SLABS WHERE ONE LAYER OF REINFORCEMENT IS PROVIDED.
   B. AT EACH FACE OF WALLS OR SLABS WHERE TWO LAYERS OF REINFORCEMENT ARE PROVIDED.
5. UNLESS OTHERWISE NOTED, SIZE OF DIAGONAL BARS SHALL BE THE SIZE OF THE LARGEST NORMAL REINFORCING BAR CUT.
6. INCREASE SIZE OF ADDITIONAL BARS AS NEEDED TO FIT WITHIN A DISTANCE OF 2 TIMES WALL/ SLAB THICKNESS FROM OPENING. PROVIDE 2" MIN CLEAR BETWEEN BARS.
7. WHERE A SLAB OR INTERSECTING WALL CONNECTS WITHIN ONE WALL THICKNESS OF THE OPENING, ADDITIONAL BARS ON THAT SIDE OF THE OPENING MAY BE OMITTED.
8. WHEN THE LAP LENGTH OF THE ADDITIONAL BARS CANNOT BE ACHIEVED DUE TO AN ADJACENT WALL OR SLAB, ADDITIONAL CORNER BARS OR SLAB DOWELS, RESPECTIVELY, MATCHING THE CUT BARS, ARE TO BE INCLUDED IN THE ADJACENT WALL OR SLAB TO LAP WITH THE ADDITIONAL BARS.

CIRCULAR OPENINGS



ADDITIONAL REINFORCEMENT AROUND OPENINGS
NOT TO SCALE

NOTES:

1. CUT NORMAL REINFORCEMENT AT OPENING:
   As1 AND As2 = 1/2 AREA OF CUT BARS TO BE ADDED ON EACH SIDE OF OPENING.
2. ADDITIONAL BARS As1 AND As2 TO BE PLACED.
   A) AT CENTERLINE OF WALLS OR SLABS WHERE ONE LAYER OF REINFORCEMENT IS PROVIDED.
   B) AT EACH FACE OF WALLS OR SLABS WHERE TWO LAYERS OF REINFORCEMENT ARE PROVIDED.
3. INCREASE SIZE OF ADDITIONAL BARS AS NEEDED TO FIT WITHIN A DISTANCE OF 2 TIMES WALL / SLAB THICKNESS FROM OPENING. PROVIDE 2" MIN CLEAR BETWEEN BARS.
4. THIS DETAIL TO BE USED ONLY WHEN NO OTHER DETAIL IS INDICATED ON THE DRAWINGS.
5. WHERE A SLAB OR INTERSECTING WALL CONNECTS WITHIN ONE WALL THICKNESS OF THE OPENINGS, ADDITIONAL BARS ON THAT SIDE MAY BE OMITTED.
6. THIS DETAIL APPLIES TO BELOW GRADE OPENINGS AND WHEN SPECIFICALLY REFERENCED.

RECTANGULAR OPENINGS

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APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE
WT
STORMWATER DETAILS 6

SHEET NUMBER
C-706

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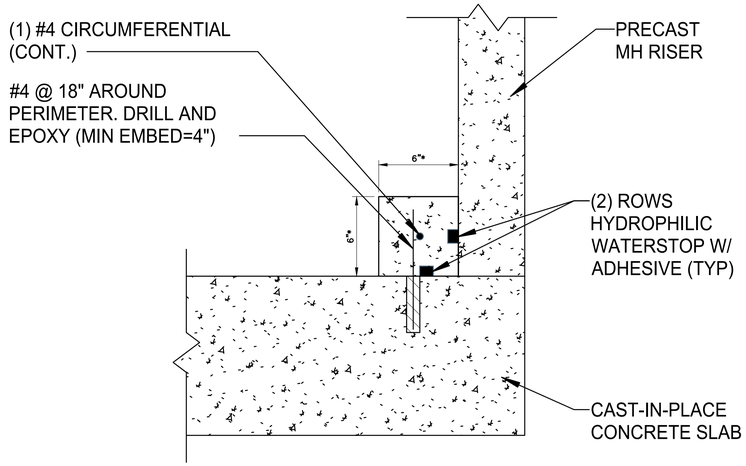
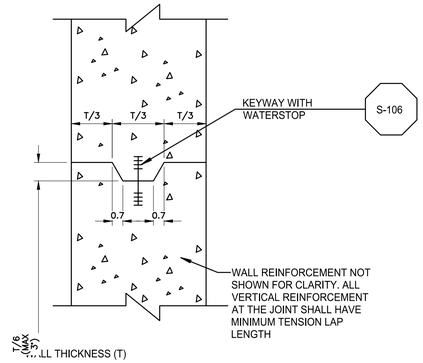


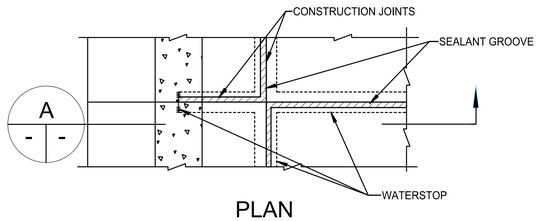
MANHOLE COLLAR CONCRETE SLAB CONNECTION
NOT TO SCALE



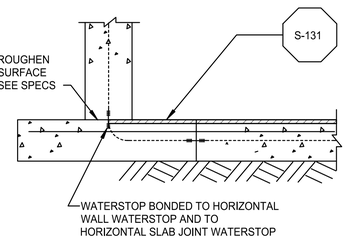
NOTES:

1. FOR HORIZONTAL WALL TO WALL CONSTRUCTION JOINTS IN SHAFT INTERNAL LININGS A ROUGHENED CONSTRUCTION JOINT WITH WATERSTOP IS AN ACCEPTABLE ALTERNATIVE TO THE KEYWAY WITH WATERSTOP. WALL TO SLAB CONSTRUCTION JOINTS SHALL HAVE KEYWAY WITH WATERSTOP.

WALL CONSTRUCTION JOINT
NOT TO SCALE



PLAN



SECTION A
NO SCALE

NOTES:

1. SEALANT GROOVE SHALL BE CONTINUED UNDER WALL AND SEALANT SHALL BOND WITH WALL WATERSTOP OCCURS.
2. SEALANT UNDER WALL SHALL BE IN PLACE AND FULLY CURED PRIOR TO PLACEMENT OF CONCRETE FOR WALL.
3. CONSTRUCTION JOINTS PASSING THROUGH VARIOUS MEMBERS OF A WATER RETAINING STRUCTURE SHALL BE SEALED WITH WATERSTOPS BONDED TOGETHER, SO AS TO PROVIDE A CONTINUOUS WATERTIGHT JOINT.

CONSTRUCTION JOINT WALL TO SLAB
NOT TO SCALE

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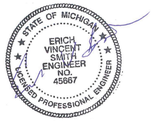

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09/22/23	• BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT
08/31/23	• BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT

A/E TEAM INFORMATION

IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE
WT
STORMWATER DETAILS 7

SHEET NUMBER
C-707

PLOT DATE: 9/22/2023 8:03:49 AM SAVE DATE: 9/20/2023 3:29:34 PM DEVADASAN, MALU C:\Users\mdevadasan\DCACC\Docs\Wade Trim\FRD\2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\P2500060-C-DTLS-ACE-WADE.dwg

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PROPOSED UTILITY LEGEND

SANITARY SEWER LINE		
STORM SEWER LINE		
DOMESTIC WATER LINE	W—W	DOMESTIC WATER VALVE
FORD DOMESTIC WATER LINE	W—W	FORD DOMESTIC WATER VALVE
FIREWATER LINE	FW—FW	FIREWATER VALVE
UNDERGROUND ELECTRIC	UE—UE	
NATURAL GAS	G—G	
OVERHEAD ELECTRIC	E—E	
FIBER OPTIC	FO	

NOTE:
NON-COLORED UTILITIES SHOWN FOR OFFSITE PROPOSED IMPROVEMENTS

SCOPE OWNERSHIP

FORD	
MAEDA	
OTHER	

13 MILE ROAD (66' WIDE-PUBLIC)

C DRIVE N. (66' WIDE-PUBLIC)

MICHIGAN AVENUE (D.R. I-94 VARIABLE WIDTH-PUBLIC)

R/W PROPOSED R.O.W.

TEMPORARY 400,000 SF CONCRETE BATCH PLANT

SEE DETAIL ABOVE FOR SCOPE DELINEATION

SEE DETAIL BELOW FOR SCOPE DELINEATION

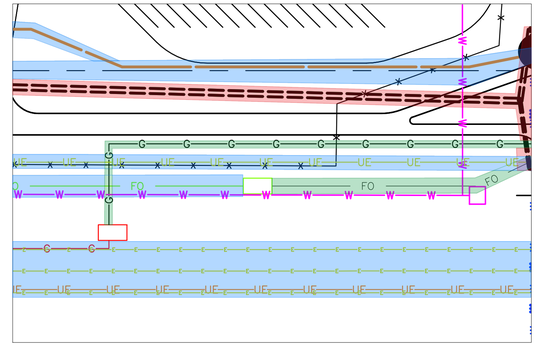
PRODUCTION BUILDING
2,323,304 SF
FFE = 920.83
TOG = 920.00

CMS/ITC SUB-STATION

INFILTRATION BASIN #1
TOP OF BASIN: 905.5 FT
BOTTOM OF BASIN: 898.5 FT

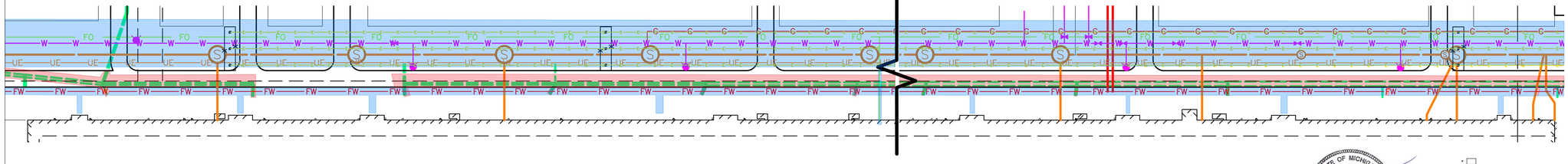
INFILTRATION BASIN #2
TOP OF BASIN: 900.5 FT
BOTTOM OF BASIN: 896.0 FT

BEAR CREEK



ZOOMED IN UTILITY CORRIDOR

OVERALL UTILITY SCOPE PLAN



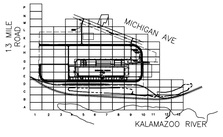
ZOOMED IN UTILITY CORRIDOR

Know what's below. Call before you dig.

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
REGISTERED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION

400 200 0 400 800
SCALE IN FEET



KEY PLAN
SCALE: NO SCALE

N

FORD LAND
17000 ROTUNDA DR, 1ST FLOOR SOUTH
DEARBORN, MICHIGAN 48120-1168
USA

BLUE OVAL
BATTERY PARK
MICHIGAN
BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

A/E OF RECORD LOGO

WADE TRIM
25251 Northline Rd.
Taylor, MI 48180
734.947.9700
www.wadetrim.com

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CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

OVERALL UTILITY SCOPE PLAN

SHEET NUMBER

C-730

C:\Users\mdevadasan\DCACDDocs\Wade Trim\FRD2011-05F Project Hickory\Project Files\01 Design\Civil 3D\Phase 02\General Grid Files\Plot Sheets\1000112-001-CU-OVRL-A22-WADE-SCOPE-DELINEATION.dwg

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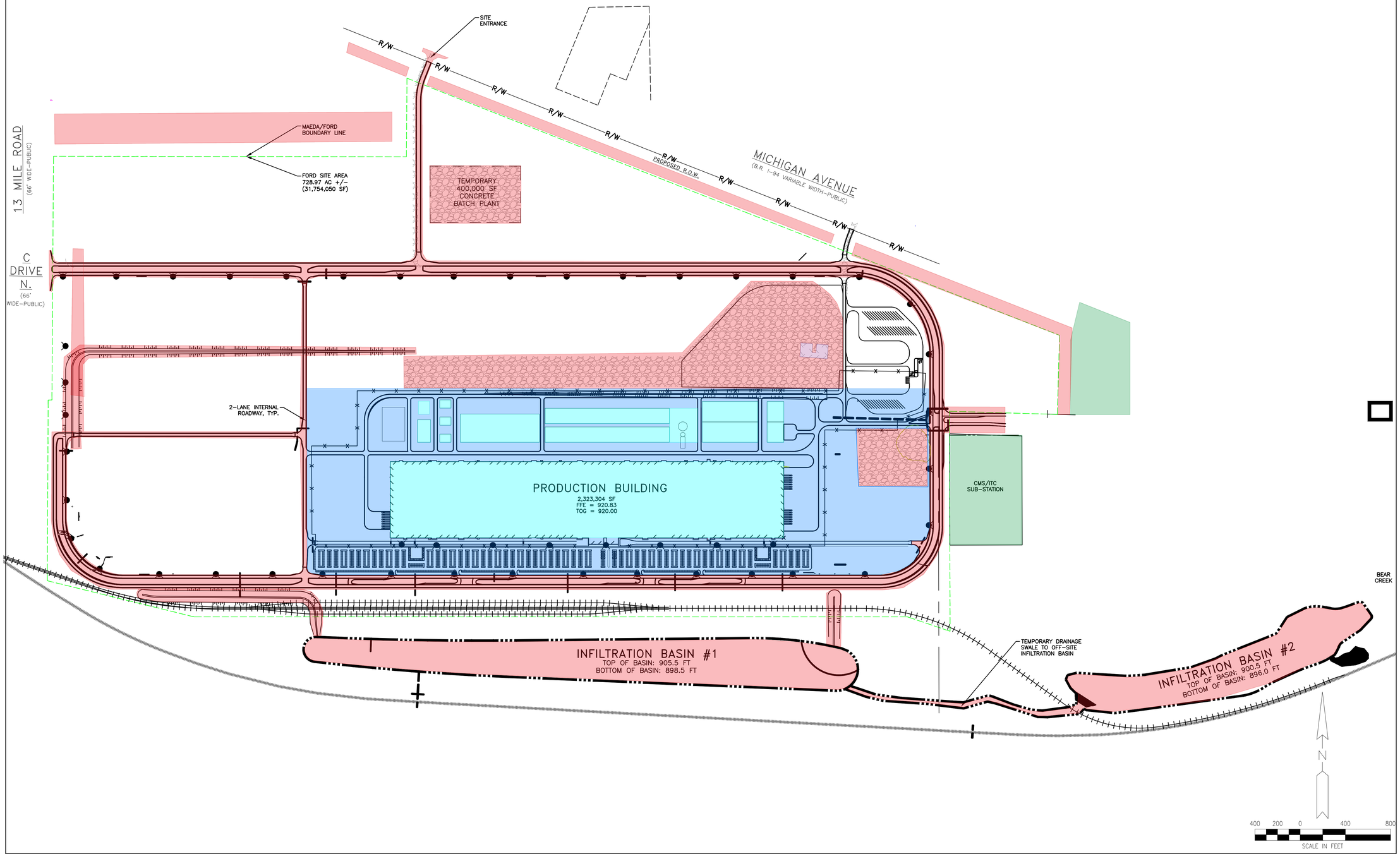


PROPOSED UTILITY LEGEND

PROPERTY LINE

EXISTING STRUCTURE

PROPOSED STRUCTURE

PROPOSED PAVEMENT/SURFACE

SCOPE OWNERSHIP

FORD

MAEDA

OTHER

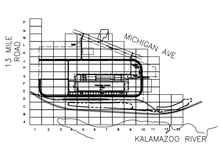
811 Know what's below. Call before you dig.

Know what's below. Call before you dig.

OVERALL SITE SCOPE PLAN

STATE OF MICHIGAN
ERICH VINCENT SMITH
ENGINEER
NO. 45667
LICENSED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION



KEY PLAN

SCALE: NO SCALE

FORD LAND

17000 ROTUNDA DR, 1ST FLOOR SOUTH
DEARBORN, MICHIGAN 48120-1168
USA

BLUE OVAL
BATTERY PARK
MICHIGAN

BATTERY PLANT

MARSHALL CALHOUN CO. MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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25251 Northline Rd.
Taylor, MI 48180
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CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01

SHEET TITLE

SCOPE DELINEATION PLAN 2

SHEET NUMBER

C-731

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