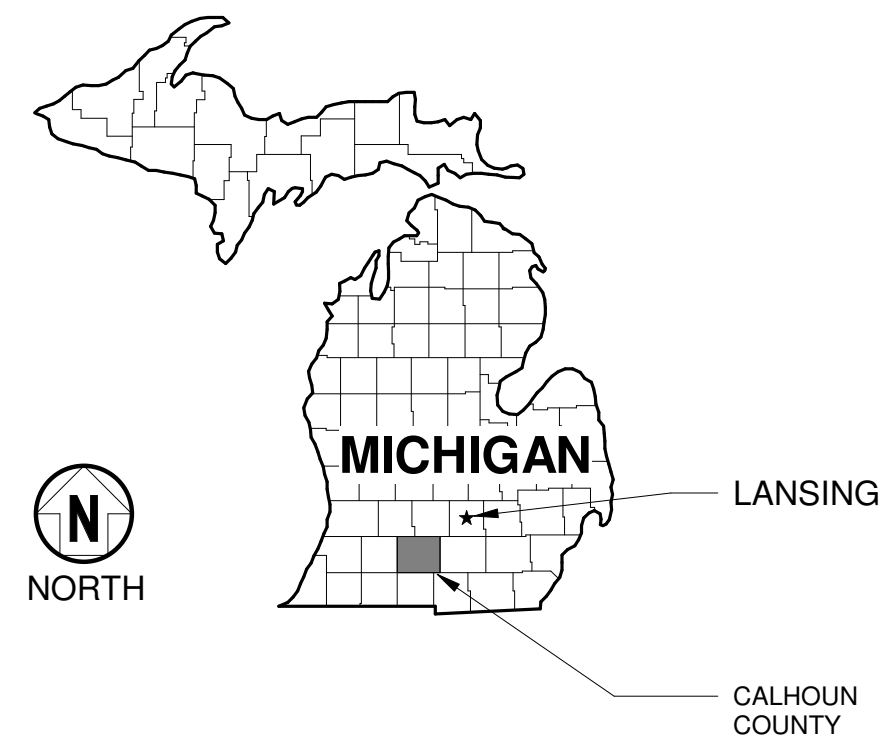


MICHIGAN AIR NATIONAL GUARD CONSTRUCT MAIN BASE ENTRANCE

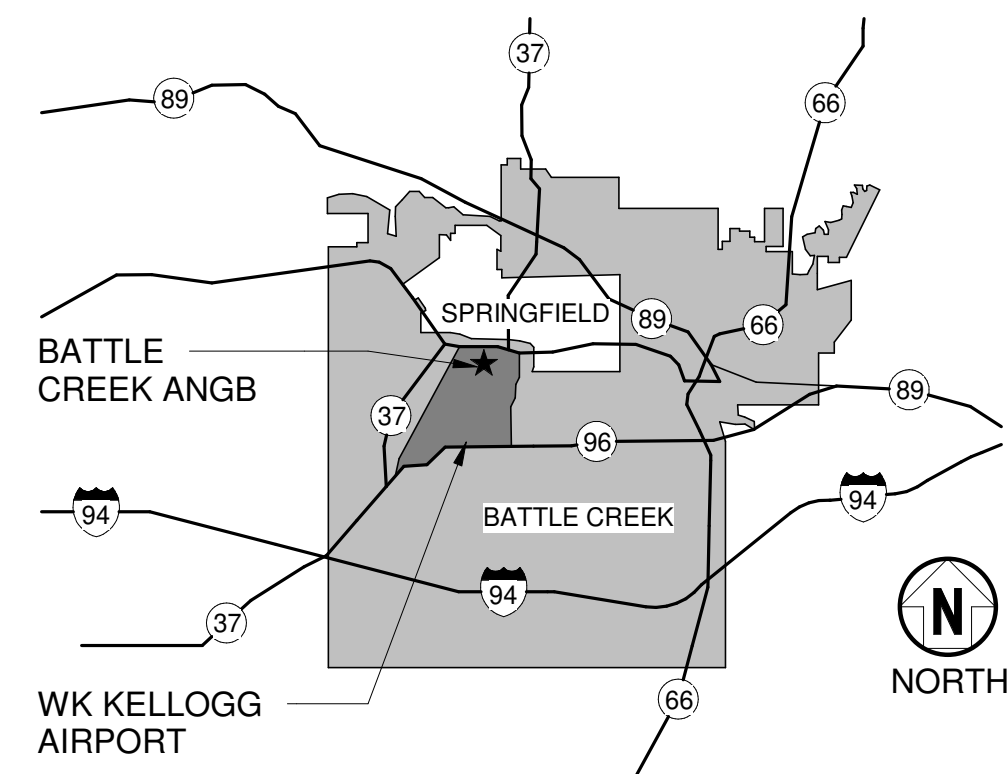


BATTLE CREEK ANGB BATTLE CREEK, MICHIGAN

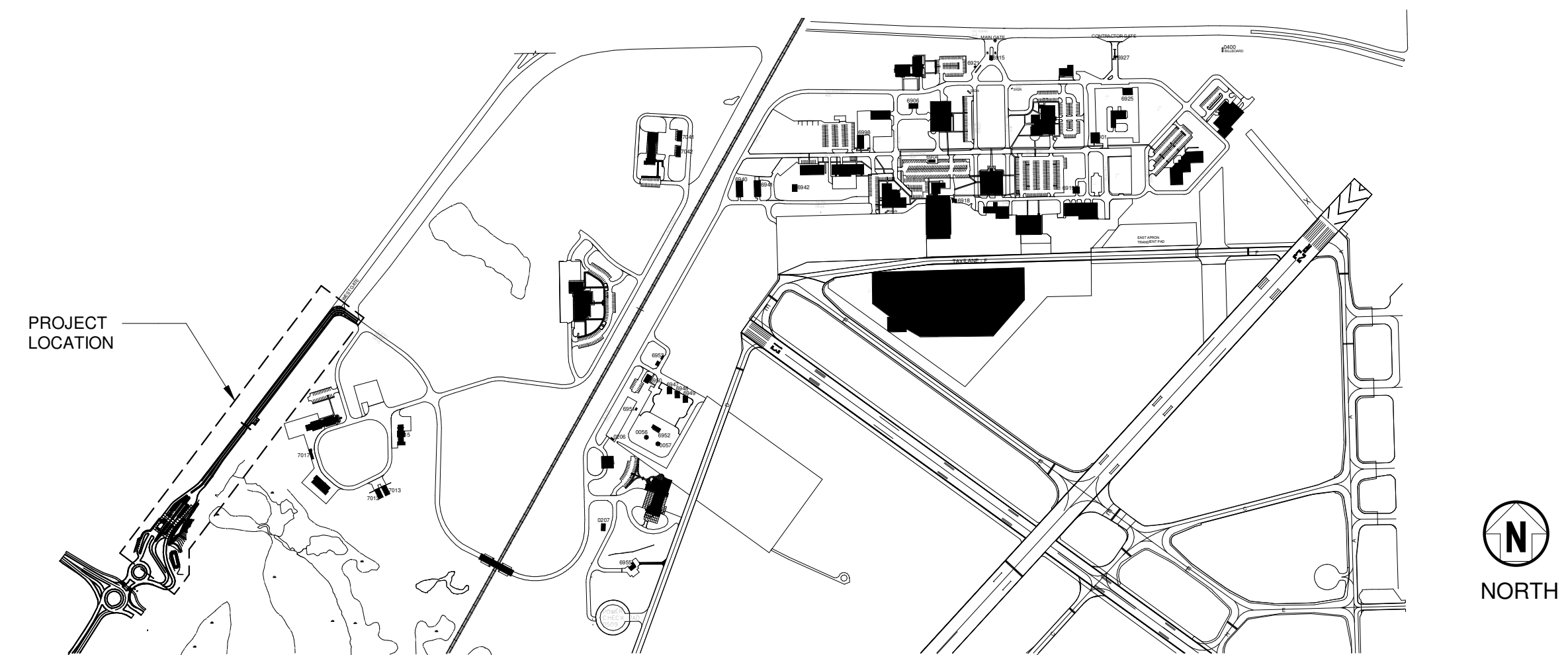
VICINITY MAP



LOCAL VICINITY MAP



PROJECT LOCATION



Mead & Hunt

Mead & Hunt, Inc.
2440 Deming Way
Middleton, WI 53562
phone: 608-273-6380
meadhunt.com



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**MICHIGAN AIR NATIONAL GUARD
CONSTRUCT MAIN BASE ENTRANCE**
 BATTLE CREEK ANGB
 BATTLE CREEK, MICHIGAN

ISSUED
02/17/21 B3 FINAL

M&H NO.: 3141900-113782.01
DATE: February 17, 2021
DESIGNED BY: PJC
DRAWN BY: MAB
CHECKED BY: GAM

DO NOT SCALE DRAWINGS
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SHEET NO.:

G-001

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Mead & Hunt, Inc.
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phone: 608-273-6380
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**MICHIGAN AIR NATIONAL GUARD
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**BATTLE CREEK ANGB
BATTLE CREEK, MICHIGAN**

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02/17/21 B3 FINAL

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SHEET NO.:

G-002



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SHEET CONTENTS
CODE ANALYSIS
PLAN AND
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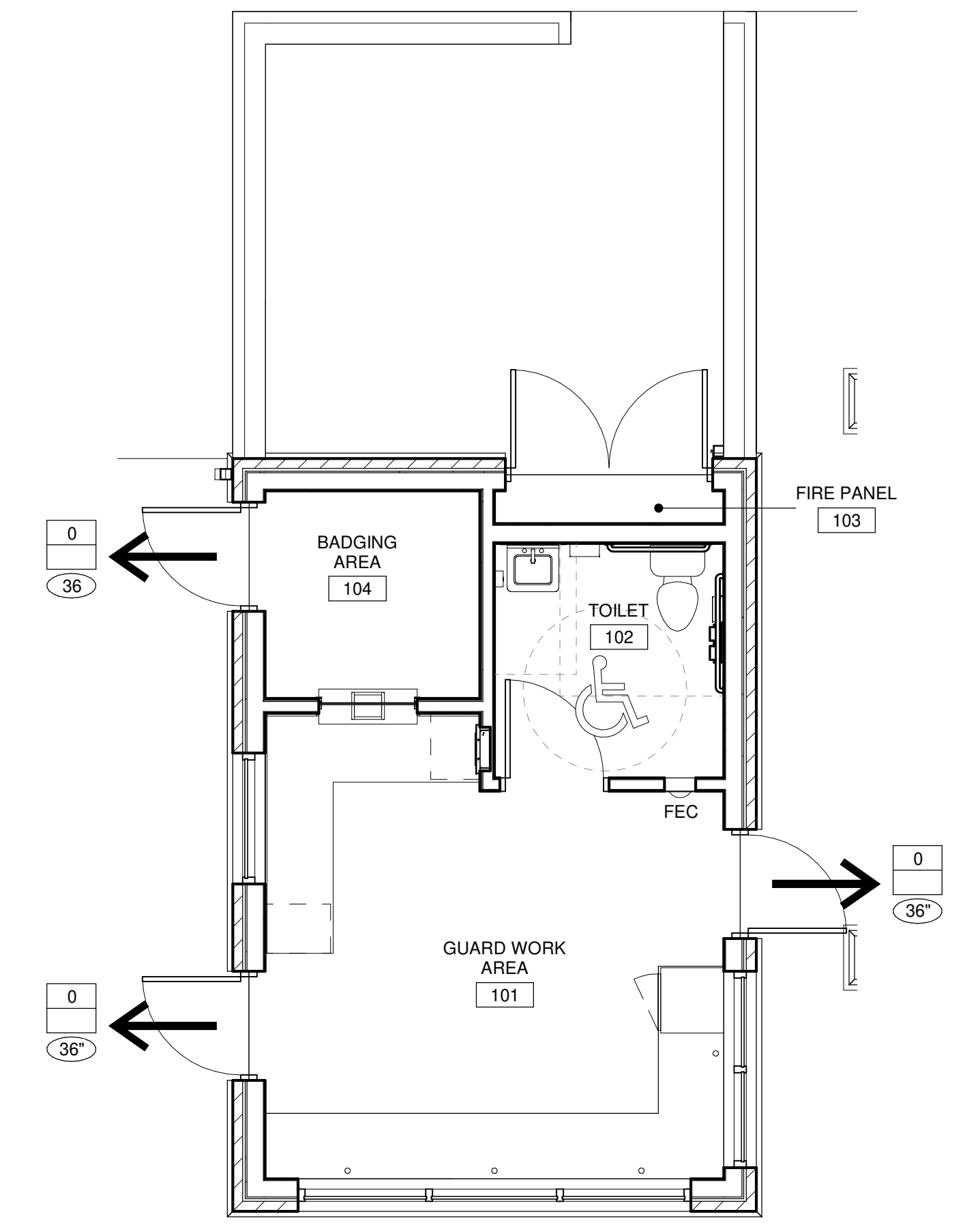
SHEET NO.:

G-011

APPLICABLE CODES AND DESIGN CRITERIA
Project Name and Location: Battle Creek ANGB Construct Main Base Entrance Battle Creek, MI
Applicable Design Criteria and Codes:
Department of Defense (DoD) Design Requirements: Unified Facilities Criteria (UFC) UFC 1-200-01: General Building Requirements - October 8, 2019 UFC 1-200-02: High Performance and Sustainable Building Requirements - Change 4, October 1, 2019 UFC 3-101-01: Architecture - Change 5, September 25, 2019 UFC 3-110-03: Roofing - Change 3, March 6, 2019 UFC 3-120-10: Interior Design - May 16, 2018 UFC 3-201-01: Civil Engineering - Change 2, March 19, 2019 UFC 3-201-02: Landscape Architecture - Change 1, November, 2009 UFC 3-210-10: Low Impact Development - Change 2, February 1, 2020 UFC 3-220-01: Geotechnical Engineering - November 1, 2012 UFC 3-250-01: Pavement Design for Roads and Parking Areas - November 14, 2016 UFC 3-301-01: Structural Engineering - October 1, 2019 UFC 3-400-02: Design: Engineering Weather Data - September 20, 2018 UFC 3-401-01: Mechanical Engineering - Change 1, October, 2015 UFC 3-410-01: Heating, Ventilating, and Air Conditioning - Change 5, November 1, 2019 UFC 3-420-01: Plumbing Systems - Change 10, October 26, 2015 UFC 3-430-01FA: Heating and Cooling Distribution Systems - July 25, 2003 UFC 3-501-01: Electrical Engineering - Change 1, November 1, 2019 UFC 3-520-01: Interior Electrical Systems - Change 1, March 20, 2019 UFC 3-530-01: Interior and Exterior Lighting Systems and Controls - Change 4, November 1, 2019 UFC 3-550-01: Exterior Electrical Power Distribution - Change 3, November 1, 2019 UFC 3-560-01: Electrical Safety, O&M - Change 2, October 31, 2019 UFC 3-580-01: Telecommunications Interior Infrastructure Planning and Design - Change 1, June 1, 2016 UFC 3-600-01: Fire Protection Engineering for Facilities - Change 4, February 7, 2020 UFC 4-010-01: DoD Minimum Antiterrorism Standards for Buildings - December 12, 2018 UFC 4-021-01: Design and O&M: Mass Notification Systems - Change 1, January 2010 UFC 4-022-01: Security Engineering Entry Control Facilities/ Access Control Points - July 27, 2017 UFC 4-022-05: Security Fences and Gates - October 1, 2013
Public Law: Energy Conservation: Public Law 1095-58: Energy Policy Act (EPAct of 2005), - August 8, 2005 Accessibility: Architectural Barriers Act (ABA) Standards (2015)
Air National Guard Design Requirements: Air National Guard Engineering Technical Letters (ANG-ETL) ANG-ETL 15-01, Air National Guard Design Policy - May 1, 2015 • Applicable current ANG-ETL's as listed in ANG-ETL 15-01
Public Codes: IBC v2018 as modified by Chapters 2 and 3 of UFC 1-200-01 in which certain sections of the IBC shall be superseded by UFC 3-600-01 and referenced public code NFPA 101
Fire/Life Safety Code: NFPA 1: Fire Code - 2018 NFPA 13: Standard for the Installation of Sprinkler Systems - 2019 NFPA 24: Standard for the Installation of Private Service Mains and Their Appurtenances - 2019 NFPA 70: National Electrical Code - 2020 NFPA 72: National Fire Alarm Code and Signaling Code - 2019 NFPA 90A: Standard for the Installation of Air Conditioning and Ventilating Systems - 2018 NFPA 101: Life Safety Code - 2018 NFPA 170: Standard for Fire Safety and Emergency Symbols - 2016
Mechanical/HVAC: ASHRAE Standard 55: Thermal Environmental Conditions for Human Occupancy - 2013 ASHRAE Standard 62.1: Ventilation for Acceptable Indoor Air Quality - 2013 ASHRAE Standard 90.1: Energy Standard for Buildings Except Low-Rise Residential Buildings - 2013

FIRE PROTECTION AND LIFE SAFETY ANALYSIS				
Building Occupancy Classifications: IBC Section 304.1: Business Group B (Offices and Training)				
Construction Type: IBC Table 601 Type VB, Non - Sprinklered				
Building Area: IBC Table 503: Group B / VB = 9,000 s.f. IBC Section 506.3: Automatic sprinkler system increase. (Is = 2) IBC Section 506.2.1: Width limits. (W = 2) IBC Section 506.2: Frontage increase If = [60/80 - 0.25]30/30 = 0.5 IBC Section 506.1: General - Total allowable area increase Aa = [9,000s.f + [9,000 x 0.5]] = 13,500 s.f.				
Group B Total Allowable Area and Actual Area	Allowable Area (S.F.) with Increase	Actual Area (S.F.)		
	13,500	368 SF		
Allowable Building Height and Number of Stories IBC Table 503: Group B / VB = 2 Stories Automatic Sprinkler Value Increase to Height and Number of Stories IBC Section 504.2: Maximum building height increase: 20 feet IBC Section 504.2: Maximum number of stories increase: 1-story				
Group B	Maximum Allowed		Actual	
	Height	Stories	Height	Stories
	40'	2	14'-6"	1
Fire Resistive Requirements for Building Elements: IBC Table 601 Structural Frame: 0 hr Bearing Walls Exterior: 0 hr Interior: 0 hr Interior Nonbearing Walls and Partitions: 0 hr Floor Construction: 0 hr Roof construction and secondary framing: 0 hr				
Fire Resistive Requirements for Exterior Walls Based on Separation Distance: IBC Table 602 Exterior Nonbearing Walls and Partitions where "x" is distance from fire separation Group B X < 5 ft 1 hr 5 ft ≤ 10 ft 1 hr 10 ft ≤ 30 ft 0 hr X ≥ 30 ft 0 hr				
Capacity of Means of Egress: Clear width of any doorway, corridor, or passageway 49 or less people per NFPA Section 7.3.4.1.2 36-inches minimum 50 or more people per NFPA Section 38.2.3.2 44-inches minimum				
Number of Exits: 1 Exit Only NFPA Section 38.2.4 including subsections: The building does meet the requirements for 1 exit per this section. 2 Exits The entire building meets the requirements for 1exit maximum per NFPA Section 38.2.4 and Section 38.2.5 with subsections included.				
Occupant Load: NFPA Table 7.3.1.2 Occupant Load Factor: Business Occupancy: 1 occupant / 100 gsf Accessory Storage, Mechanical: 1 occupant / 300 gsf				
	Area	Occupants		
Guardhouse	346	4		
Electrical / Comm room	22	1		
Total Occupants:		5		
Dead-end Corridor Distance: NFPA Section 38.2.5.2.2 New Business 20 feet				
Common Path of Travel: NFPA Section 38.2.5.3.2 New Business Occupancies 100 feet				
Travel Distance to Exits: NFPA Section 38.2.6.3 New Business Occupancies 200 feet				

FIRE PROTECTION AND LIFE SAFETY ANALYSIS, Cont'd	
Interior Finishes/Environment: NFPA Section 38.3.3 including subsections and Section 10.2 including subsections Interior Wall and Ceiling Finish for Exits and Exit Corridors: Class B (Minimum) Interior Wall and Ceiling Finish for other areas: Class C (Minimum) Interior Floor Finish in Exit Enclosures: Class II (Minimum) Interior Floor Finish: Carpet and carpet like interior floor finishes shall comply with ASTM D-2859 Interior Floor Finish: Floor coverings other than carpet shall have a minimum critical radiant flux of 01. W/cm² IBC Section 1203 Ventilation Buildings shall be provided with natural ventilation or mechanical ventilation. This project provides mechanical ventilation. IBC Section 1205 Lighting Every space intended for human occupancy shall be provided with natural light by means of exterior glazed openings or shall be provided with artificial light in accordance with 1205.3 This project provides artificial light to the restroom.	
Fire Extinguishers, General: NFPA Section 9.7.4.1 Portable fire extinguishers shall be selected, installed, inspected, and maintained in accordance with NFPA 10. The local Authority Having Jurisdiction (AHJ) shall coordinate the (1) size, (2) type, and (3) location of portable fire extinguishers for each room in the facility.	
Plumbing Fixtures: UFC 3-420-01, Section 403.1.D Minimum Number of Plumbing Fixtures Based on Actual # of Employees - 5 Water Closets - 1 to 15 employees: 1 Lavatories - 1 to 15 employees: 1 Drinking Fountains - 1 to 75 employees: 1 Service Sinks: 1 per floor	



CODE PLAN LEGEND:

- 6 OCCUPANT LOAD (OR MAX. CAPACITY)
- XX" OCCUPANT LOAD FACTOR REQ'D WIDTH
- XX" PROVIDED WIDTH
- EXIT DISCHARGE
- 1 HR RATED WALL
- F.E. FIRE EXTINGUISHER - WALL MOUNTED
- F.E.C. FIRE EXTINGUISHER - CABINET
- AREA EXIT
- EXIT PATHWAYS
- 1 HR RATED FLOOR SYSTEM

TRUE PLAN NORTH NORTH
1
LIFE SAFETY FLOOR PLAN
1/4" = 1'-0"

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ENCLOSED WITHIN THE CONTRACT DOCUMENTS ARE THE SPECIFICATIONS:

- SECTION 02 41 19 - SELECTED DEMOLITION
- SECTION 32 17 13 - PARKING BUMPERS
- SECTION 32 31 13.53 - HIGH SECURITY CHAIN LINK FENCES AND GATES
- SECTION 32 31 19.53 - DECORATIVE METAL SECURITY FENCES AND GATES
- SECTION 32 93 00 - PLANTS
- SECTION 33 11 16 - SITE WATER UTILITY DISTRIBUTION PIPING
- SECTION 33 31 00 - SANITARY UTILITY SEWERAGE PIPING
- SECTION 34 71 13 - CABLE BARRIERS, BOLLARDS & DROP ARM GATES

THE MAJORITY OF THE MATERIALS TO BE USED IN THE SITE WORK OF THIS PROJECT SHALL CONFORM TO THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION (2012 MDOT). THESE SPECIFICATIONS ARE NOT PROVIDED IN THE PROJECT DOCUMENTS AND ARE TO BE OBTAINED BY THE CONTRACTOR. SEE MODIFICATIONS TO THE INDIVIDUAL SPECIFICATIONS BELOW.

ALL MENTION OF MEASUREMENT AND PAYMENT WITHIN THE 2012 MDOT SPECIFICATIONS DO NOT APPLY TO THIS PROJECT AND SHALL BE IGNORED.

WITHIN THE 2012 MDOT SPECIFICATIONS, ANY TESTING MENTIONED TO BE PERFORMED BY THE "ENGINEER" OR "DEPARTMENT", SHALL BE REPLACED WITH THE "CONTRACTOR". THE CONTRACTOR SHALL PROVIDE ALL TESTING REQUIRED.

CLEARING

THIS ITEM SHALL CONFORM TO MDOT 201 AND SHALL CONSIST OF THE CLEARING AND GRUBBING OF VARIOUS DIAMETER INDIVIDUAL TREES.

ROADWAY EARTHWORK

THIS MATERIAL SHALL CONFORM TO MDOT SECTION 205 REFERENCED SECTIONS IN DIVISION 9 MATERIALS. SPECIAL COMPACTION SHALL APPLY UNDER ALL PAVEMENTS, WITH EACH LIFT COMPACTED TO 100 PERCENT OF ASTM D1557. IN-PLACE COMPACTION SHALL BE PERFORMED IN ACCORDANCE WITH ONE TEST PER 1,500 SQUARE FEET, OR FRACTION THEREOF, OF EACH LIFT OF FILL AREAS COMPACTED. IF ASTM D6938 IS USED, CHECK IN-PLACE DENSITIES BY ASTM D1556/D1556M AS FOLLOWS: ONE CHECK TEST PER LIFT FOR EACH 12,000 SQUARE FEET, OR FRACTION THEREOF, OF EACH LIFT OF FILL COMPACTED. MOISTURE CONTENT OF THE PLACED AND TESTED MATERIAL TO BE PLUS OR MINUS 2 PERCENT OF THE CONTRACTOR FURNISHED OPTIMUM MOISTURE. ALL TEST RESULTS ARE TO BE PROVIDED TO THE COR FOR APPROVAL, PRIOR TO THE PLACEMENT OF THE NEXT LIFT.

AGGREGATE BASES

THIS MATERIAL SHALL CONFORM TO MDOT SECTIONS 302, 306, 307, 308 AND REFERENCED SECTIONS IN DIVISION 9 MATERIALS. IN-PLACE COMPACTION SHALL BE PERFORMED IN ACCORDANCE WITH ONE TEST PER 1,500 SQUARE FEET, OR FRACTION THEREOF, OF EACH LIFT OF FILL AREAS COMPACTED. IF ASTM D6938 IS USED, CHECK IN-PLACE DENSITIES BY ASTM D1556/D1556M AS FOLLOWS: ONE CHECK TEST PER LIFT FOR EACH 12,000 SQUARE FEET, OR FRACTION THEREOF, OF EACH LIFT OF FILL COMPACTED. MOISTURE CONTENT OF THE PLACED AND TESTED MATERIAL TO BE PLUS OR MINUS 2 PERCENT OF THE CONTRACTOR FURNISHED OPTIMUM MOISTURE. ALL TEST RESULTS ARE TO BE PROVIDED TO THE COR FOR APPROVAL, PRIOR TO THE PLACEMENT OF THE NEXT LIFT.

DRAINAGE FEATURES

THIS ITEM SHALL CONFORM TO MDOT SECTIONS 401, 402, 403 AND REFERENCED SECTIONS IN DIVISION 9 MATERIALS, AND TO THE DIMENSIONS SHOWN IN THE PLAN SET.

HOT MIX ASPHALT (HMA) PAVEMENT

THIS MATERIAL SHALL CONFORM TO MDOT SECTION 501 AND REFERENCED SECTIONS IN DIVISION 9 MATERIALS. TESTING REQUIRED PER MDOT SECTION 501.03, M AND N SHALL APPLY. NO INCENTIVE PAY ADJUSTMENT WILL BE OBSERVED. IF THE PLACED MATERIAL DOES NOT MEET THE DENSITY REQUIREMENTS STATED WITHIN THE SPECIFICATION, THE MATERIAL SHALL BE REMOVED AND REPLACED AT NO COST TO THE GOVERNMENT.

CONCRETE PAVEMENT

THIS MATERIAL SHALL CONFORM TO MDOT SECTIONS 601, 602, 604 AND REFERENCED SECTIONS IN DIVISION 9 MATERIALS. NO INCENTIVE PAY ADJUSTMENT WILL BE PROVIDED. NON-CONFORMING MATERIALS SHALL BE REMOVED AND REPLACED AT NO COST TO THE GOVERNMENT.

CONCRETE CURB & GUTTER, CONCRETE

THIS ITEM SHALL CONFORM TO MDOT SECTIONS 802 AND REFERENCED SECTIONS IN DIVISION 9 MATERIALS, AND TO THE DIMENSIONS SHOWN IN THE PLAN SET.

CONCRETE SIDEWALK, RAMPS AND DETECTABLE WARNING SURFACES

THIS ITEM SHALL CONFORM TO MDOT 803, 901 AND REFERENCED SECTIONS IN DIVISION 9 MATERIALS.

PAVEMENT MARKING

THIS ITEM SHALL CONFORM TO MDOT SECTION 811 AND REFERENCED SECTIONS IN DIVISION 9 MATERIALS.

TEMPORARY TRAFFIC CONTROL

THIS ITEM SHALL CONFORM TO MDOT 812 AND REFERENCED SECTIONS IN DIVISION 9 MATERIALS, AND SHALL INCLUDE ALL PLACEMENT, MAINTENANCE, AND MOVING OF TRAFFIC CONTROL ITEMS REQUIRED AND AS STATED WITHIN THE PLAN SET FOR THE LIFE OF THE PROJECT.

PERMANENT TRAFFIC SIGNS AND SUPPORTS

THIS ITEM SHALL CONFORM TO MDOT 810 AND REFERENCED SECTIONS IN DIVISION 9 MATERIALS.

TURF ESTABLISHMENT

THIS ITEM SHALL CONFORM TO MDOT 816 AND REFERENCED SECTIONS IN DIVISION 9 MATERIALS.

CONTRACTOR STAKING

THIS ITEM SHALL CONFORM TO MDOT 824 AND SHALL INCLUDE ALL CONTROL, LAYOUT, AND SURVEYING REQUIRED TO LAY OUT AND CHECK ALL ITEMS OF WORK WITHIN THE PROJECT. LAYOUT AND CONTROL SHALL BE SUFFICIENT TO PROVIDE THE REQUIRED FINISHED GRADES AND LOCATIONS TO THAT SHOWN IN THE PLAN SET AND THE REQUIREMENTS STATED WITHIN EACH ITEM OF WORKS SPECIFICATION.

Mead & Hunt

Mead and Hunt, Inc.
2440 Deming Way
Middleton, WI 53562
phone: 608-273-6380
meadhunt.com



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MICHIGAN AIR NATIONAL GUARD
CONSTRUCT MAIN BASE ENTRANCE

BATTLE CREEK ANGB
BATTLE CREEK, MICHIGAN

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02/17/21 B3 FINAL

ANG Project No: MBMV099170
M&H NO.: 3141900-113782.01
DATE: FEBRUARY 17, 2021
DESIGNED BY: JAK
DRAWN BY: DAY
CHECKED BY: SAH
DO NOT SCALE DRAWINGS

SHEET CONTENTS
CIVIL SPECIFICATIONS

SHEET NO.

C-001

RESTRICTED AREAS

- A. OPEN-FLAME WELDING OR TORCH CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS ARE PROVIDED AS APPROVED BY THE COR.
- B. ALL VEHICLES ARE TO BE PARKED AND SERVICED IN THE CONTRACTOR STAGING/STORAGE AREA.
- C. THE CONTRACTORS' EQUIPMENT IS STRICTLY LIMITED TO THE CONSTRUCTION AREAS DURING CONSTRUCTION AND TO THE CONTRACTOR STAGING/STORAGE AREA DURING NON-CONSTRUCTION PERIODS, EXCEPT AS PROVIDED ON THE PLANS, IN THE CONTRACT SPECIAL PROVISIONS, OR AS MAY BE AUTHORIZED BY THE COR IN WRITING.

MARKING, LIGHTING, AND BARRICADES

NO CONSTRUCTION SHALL BEGIN UNTIL ALL BARRICADES, AND SAFETY MEASURES HAVE BEEN PLACED BY THE CONTRACTOR AND APPROVED BY THE COR.

- A. EXCAVATION/STOCKPILES:
IF THE CONTRACTOR WISHES TO STOCKPILE MATERIALS OR EQUIPMENT, HE/SHE MUST FIRST COORDINATE WITH THE COR TO ENSURE THAT APPROPRIATE LIGHTING AND BARRICADES ARE IN PLACE AND TO ENSURE THAT THE STOCKPILED MATERIALS DO NOT CREATE A HAZARD.

EXCAVATION AND RESULTANT STOCKPILES ADJACENT TO OTHER PAVED SURFACES MUST BE APPROPRIATELY MARKED WITH BARRICADES, AS DIRECTED BY THE COR.

BARRICADES SHALL MEET CURRENT MDOOT TRAFFIC CONTROL DEVICE STANDARDS.

- B. TRAFFIC CONTROL DEVICES:
ALL TRAFFIC CONTROL DEVICES SHALL MEET INDUSTRY AND MICHIGAN DOT STANDARDS.

- C. CONTRACTOR MUST PROVIDE AN EMERGENCY CONTACT AVAILABLE 24 HOURS FOR MAINTENANCE OF CONSTRUCTION SIGNING AND BARRICADING, OR ANY OTHER ISSUES THAT INTERFERE WITH THE OPERATIONS AT THE BASE.

FUEL SUPPORT

ANY TYPE OF FUELING SUPPORT FACILITY OR DEVICE USED TO REFUEL CONSTRUCTION EQUIPMENT IS SUBJECT TO LOCAL FIRE INSPECTION. LOCAL FIRE CODES AND SAFETY STANDARDS SHALL BE MET PRIOR TO COMMENCEMENT OF WORK.

SWEEPING / CLEAN-UP

- A. THE CONTRACTOR SHALL HAVE SWEEPING CAPABILITIES ON-SITE AT ALL TIMES IN ORDER TO REMOVE DEBRIS FROM ACTIVE OPERATIONAL AREAS (ENTRANCE ROADS, PARKING LOTS, ETC). MATERIAL TRACKED ONTO THESE AREAS MUST BE CONTINUOUSLY REMOVED DURING THE CONSTRUCTION PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE SITE, INCLUDING ADJACENT PAVEMENTS AND HAUL ROUTES, IS CLEAR OF ANY DEBRIS TO THE SATISFACTION OF THE COR. UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT THE SITE, INCLUDING ADJACENT PAVEMENTS AND HAUL ROUTES, IS RETURNED TO ORIGINAL CONDITION TO THE SATISFACTION OF THE COR.

- B. HAZARDOUS MATERIALS (HAZMAT) MANAGEMENT, CONTRACTOR MUST CONTAIN AND CLEAN-UP SPILLS RESULTING FROM FUEL OR HYDRAULIC FLUID LEAKS. ANY SPILLS OF HAZARDOUS MATERIAL MUST BE CLEANED UP IN ACCORDANCE WITH APPLICABLE REGULATIONS.

- C. CONTRACTOR SHALL USE ALL MEANS NECESSARY TO MINIMIZE DUST DURING CONSTRUCTION OPERATIONS. IF THE COR REQUESTS DUST CONTROL, IT SHALL BE APPLIED IMMEDIATELY.

HAUL ROUTES, PLANT SITES AND STAGING AREAS

CONTRACTOR IS RESPONSIBLE FOR RESTORING ALL HAUL ROADS, PLANT SITES AND STAGING AREAS TO ORIGINAL CONDITION. THIS WILL INCLUDE BUT NOT BE LIMITED TO GRADING (FILLING IF NECESSARY) AND SEEDING ALL TURF AREAS. ANY PAVEMENT AREAS USED BY THE CONTRACTOR AS A HAUL ROUTE WHICH ARE DAMAGED WILL BE REPAVED AND/OR REMARKED AS APPROVED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR IS RESPONSIBLE FOR INSPECTING ALL HAUL ROUTES PRIOR TO THE START OF CONSTRUCTION. THE CONDITION OF EXISTING HAUL ROUTES SHALL BE DOCUMENTED EITHER WITH PICTURES OR VIDEO AND PROVIDED TO THE ENGINEER PRIOR TO ANY HAULING ACTIVITIES. ANTICIPATED COSTS ASSOCIATED WITH DOCUMENTING EXISTING HAUL ROUTE CONDITION, OR RECONSTRUCTING OR RESTORING HAUL ROUTES AND STAGING AREAS SHALL BE INCIDENTAL TO THE PROJECT MOBILIZATION.

UNDERGROUND ELECTRICAL CIRCUITS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF EXISTING UTILITIES, AND ELECTRICAL CIRCUITS. LOCATIONS OF EXISTING UTILITIES SHOWN IN THE PLANS ARE BASED ON AVAILABLE AS-BUILT DATA AND ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ANY CROSSING OF UNDERGROUND ELECTRICAL CIRCUITS AND UTILITIES WITH THE COR, AND LOCAL UTILITIES PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES.

BASE SECURITY

ANY LENGTH OF SECURITY FENCE REMOVED BY THE CONTRACTOR WILL BE REQUIRED TO BE EITHER REINSTALLED OR REPLACED WITH TEMPORARY FENCE. DURATION OF SECURITY FENCE REMOVAL SHALL BE MINIMIZED TO NOT INTERFERE WITH BASE SECURITY. COORDINATE WITH THE COR PRIOR TO ANY KIND OF FENCE WORK. THE CONTRACTOR WILL PROVIDE A BADGED GATE GUARD AT ALL AREAS OF FENCE WORK.

MEETINGS AND CORRESPONDENCE

- A. CONTRACTOR IS REQUIRED TO ATTEND WEEKLY COORDINATION MEETINGS AT WHICH SAFETY ISSUES WILL BE DISCUSSED.

ENFORCEMENT

- A. VIOLATIONS TO BASE OPERATIONS OR THESE RULES AND REGULATIONS, DEPENDING UPON THE SEVERITY OF THE VIOLATION, MAY RESULT IN ONE OR MORE OF THE FOLLOWING:
 1. FINES
 2. A VERBAL AND/OR WRITTEN WARNING
 3. REVOCATION OF AOA BADGE AND/OR VEHICLE ACCESS PERMIT
 4. THE CONTRACT WORK BEING STOPPED UNTIL CORRECTIVE MEASURES ARE TAKEN TO PRECLUDE A RECURRENCE OF THE VIOLATIONS. NO TIME EXTENSION WILL BE ISSUED DUE TO A VIOLATION.
 5. REMOVAL FROM THE PROJECT
- B. THE CONTRACTOR IS RESPONSIBLE FOR ALL FINES LEVIED BY THE COR FOR VIOLATIONS OF SECURITY REGULATIONS.

PERMITS AND LOCAL INSPECTION FEES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS REQUIRED FOR THIS PROJECT. ALL COSTS ASSOCIATED WITH PERMITS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

OPERATIONS/PHASING/TRAFFIC CONTROL GENERAL NOTES:

1. ALL SCHEDULING TO BE COORDINATED THROUGH THE ENGINEER AND APPROVED BY THE COR.
2. ALL ROADS TO REMAIN OPEN TO VEHICLE TRAFFIC AT ALL TIMES.
3. CONTRACTOR SHALL SUPPLY ANY TEMPORARY STOP, SPEED LIMIT, OR ANY OTHER SIGN OR TRAFFIC CONTROL DEVICE REQUIRED TO PERFORM CONSTRUCTION.
4. CONTRACTOR SHALL NOT PARK OR TURN AROUND CONSTRUCTION VEHICLES IN ANY ACTIVE AREAS.
5. NO PERSONAL VEHICLES WILL BE ALLOWED THROUGH BASE GATES OR PERIMETER FENCING. PERSONAL VEHICLES ARE NOT ALLOWED IN ANY ACTIVE CONSTRUCTION ZONE AND SHALL NOT BE PARKED ON SURROUNDING LOCAL ROADS.
6. ANY SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED, AND AS APPROVED BY THE COR.
7. TRAFFIC CONTROL MEASURES SHOWN ON PHASING SHEETS ARE A MINIMUM AND THE CONTRACTOR IS TO SUPPLY ANY ADDITIONAL TRAFFIC CONTROL MEASURES TO PERFORM REQUIRED WORK AS REQUIRED BY THE COR.

SYMBOLS

LEGEND:

	BENCHMARK		SANITARY SEWER MANHOLE
	CONTROL POINT		SANITARY SEWER VALVE
	BARRIER, JERSEY		SANITARY SEWER WET WELL
	BOLLARD		SIGN (SINGLE POST)
	CLEANOUT, SANITARY OR STORM		SIGN (DOUBLE POST)
	ELECTRIC MANHOLE		SOIL BORING
	ELECTRIC METER		STORM INLET, CURB
	ELECTRIC PEDESTAL BOX		STORM INLET, ROUND
	ELECTRIC TRANSFORMER BOX		STORM INLET, SQUARE
	ELECTRIC SERVICE PANEL		STORM FLARED END SECTION
	ELECTRIC HANDHOLE (PULLBOX)		STORM SEWER MANHOLE
	FIBER OPTIC MANHOLE		STORM WATER QUALITY MANHOLE
	FIRE HYDRANT		TELECOMMUNICATIONS MANHOLE
	FLAGPOLE		TELECOMMUNICATIONS PEDESTAL BOX
	FUEL SHUT OFF VALVE		CTV PEDESTAL BOX
	FUEL VENT PIPE		TRAFFIC FLOW DIRECTION
	GAS MANHOLE		UTILITY CROSSING / CONFLICT or CAUTION
	GAS METER		UNDERDRAIN FLUSHER RISER
	GAS VALVE		UNDERDRAIN MANHOLE
	GAS VENT PIPE		VALVE MANHOLE
	GUY ANCHOR		WATER AIR RELIEF VALVE
	HANDHOLE, GENERIC		WATER BLOW OFF VALVE
	IRON PIN		WATER MANHOLE
	LIGHT BOLLARD		WATER METER
	LIGHT POLE (SINGLE)		WATER PRESSURE VALVE
	LIGHT POLE (DOUBLE)		WATER REDUCER
	MARKER, CABLE		WATER VALVE
	MARKER, DUCT		WATER SHUT OFF
	MONITORING WELL		WATER TANK
	PIEZOMETER		WETLAND DATAPPOINT
	POWER POLE		WATER SURFACE
	POWER POLE, DOUBLE		SECTION REFERENCE
	POWER POLE WITH LIGHT		ELEVATION REFERENCE
	SANITARY SEPTIC TANK VALVE		SHEET REFERENCE
	SANITARY SEWER LIFT STATION		DETAIL REFERENCE

LINES

LEGEND:

	BOUNDARY (PROJECT /CONSTRUCTION LIMITS)
	CHILLED WATER
	CONDUIT, GENERIC
	COUNTERPOISE AND GROUND RODS
	DIAMOND
	DUCT BANK
	GAS
	ELECTRIC, OVERHEAD
	ELECTRIC, UNDERGROUND
	EXISTING CONTOUR LINES
	PROPOSED CONTOUR LINES
	CHAIN LINK FENCE
	CHAIN LINK FENCE W/DBL CABLE BARRIER
	ORNAMENTAL FENCE
	GATE FENCE
	FIBER OPTIC CABLE
	FORCE MAIN
	FUEL LINE
	GRADE BREAK
	GRADING LIMITS
	GROUND
	GUARDRAIL
	HANDRAIL
	HAUL or TRAFFIC ROUTE
	PROPERTY LINE
	RIGHT-OF-WAY
	SANITARY SEWER
	SHEETPILE
	SENSOR CABLE
	SIGNAL CABLE, UNDERGROUND
	SILT FENCE
	SEDIMENT LOG
	STONE RETAINING WALL
	STORM SEWER / CULVERT
	SWALE
	SWALE
	TAPERED DASH
	TELEPHONE, OVERHEAD
	TELEPHONE, UNDERGROUND
	TV CABLE
	UNDERDRAIN
	WATER
	WETLAND BOUNDARY
	VEGETATION
	100YR (Q100) FLOOD LINE



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Middleton, WI 53562
phone: 608-273-6380
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MICHIGAN AIR NATIONAL GUARD
 CONSTRUCT MAIN BASE ENTRANCE
 BATTLE CREEK ANGB
 BATTLE CREEK, MICHIGAN

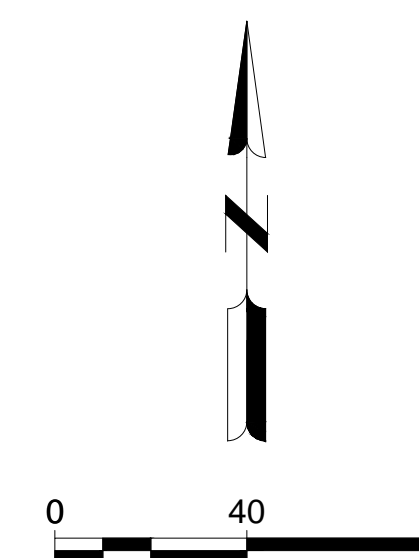
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02/17/21 B3 FINAL

ANG Project No: MBMV099170
 M&H No.: 3141900-113782.01
 DATE: FEBRUARY 17, 2021
 DESIGNED BY: JAK
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SHEET CONTENTS
 CIVIL NOTES

SHEET NO.

C-002



GENERAL NOTES

- DO NOT BEGIN EXCAVATION UNTIL ALL EXISTING UNDERGROUND FACILITIES WITHIN THE PROJECT AREA HAVE BEEN MARKED IN THE FIELD BY BASE PERSONNEL OR MISSDIG. ANY UNDERGROUND BASE UTILITIES WITHIN THE WORK AREAS WILL INITIALLY BE LOCATED AND IDENTIFIED WITH PAINT MARKINGS ON THE SURFACE BY BASE PERSONNEL. MAINTAIN BASE UTILITY MARKINGS AFTER BASE PERSONNEL HAVE LOCATED THEM. DO NOT BEGIN ANY GRADE WORK UNTIL AN APPROVED AIR FORCE FORM 103, 'BASE CIVIL ENGINEERING WORK CLEARANCE REQUEST' HAS BEEN OBTAINED.
- POTHOLE AND VERIFY THE DEPTH OF ALL UTILITIES WITHIN THE CONSTRUCTION ZONE BEFORE PROCEEDING WITH ANY TRENCHING OR EXCAVATION OPERATIONS. POTHOLES TO BE BACKFILLED OR BARRICADED IMMEDIATELY UPON UTILITY LOCATION. ANY ELEVATION CONFLICTS IDENTIFIED SHALL BE PROVIDED TO THE CONTRACTING OFFICER'S REPRESENTATIVE TO CONFIRM STATUS OF FACILITY PRIOR TO ACTIVITY.
- SHALL ADDITIONAL STRUCTURES BE ENCOUNTERED DURING CONSTRUCTION BEYOND THOSE IDENTIFIED THE CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER'S REPRESENTATIVE TO CONFIRM STATUS OF FACILITY PRIOR TO ACTIVITY.

DASHED LINES ARE PLANNED IMPROVEMENTS BY OTHERS

CITY OF BATTLE CREEK

CONSUMER ENERGY (ELECTRIC)

CONSUMER ENERGY (ELECTRIC)

CONSUMER ENERGY (ELECTRIC)

CITY OF BATTLE CREEK

CONSUMER ENERGY (ELECTRIC)

CONSUMER ENERGY (ELECTRIC)

SEMCO ENERGY (GAS)

SEMCO ENERGY (GAS)

BASE PERIMETER FENCE

6' CHAINLINK FENCE

CITY OF BATTLE CREEK

ASPHALT

SKYLINE DR. (VACATED)

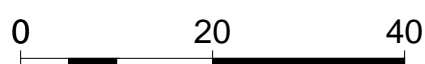
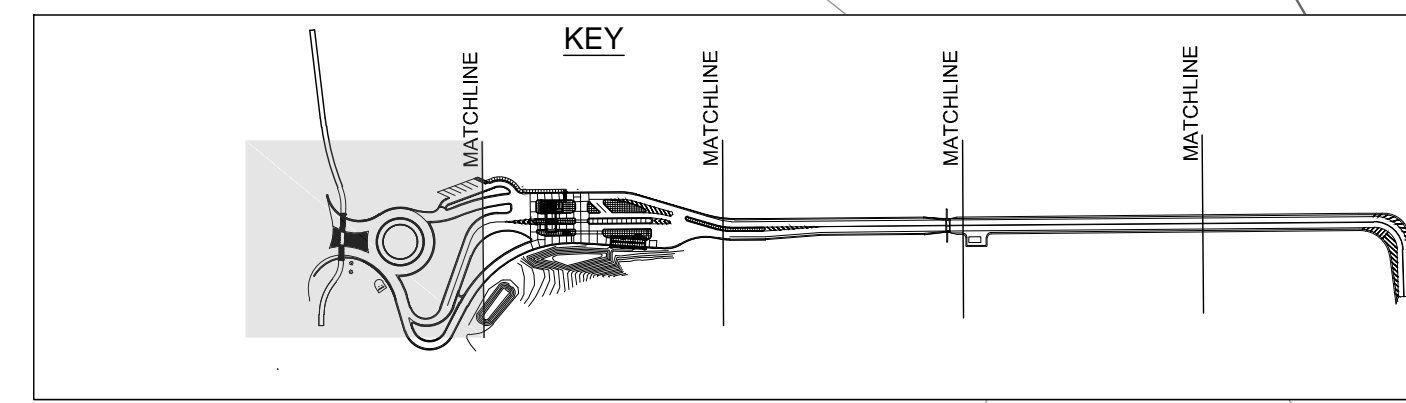
CONCRETE

ASPHALT

LOGISTICS DR.

HILL BRADY RD.

CUSTER INDUSTRIAL PARK



MATCH LINE SEE SHEET C-012

MICHIGAN AIR NATIONAL GUARD
 CONSTRUCT MAIN BASE ENTRANCE
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SHEET CONTENTS
 EXISTING TOPO & UTILITIES

SHEET NO.

C-011

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**MICHIGAN AIR NATIONAL GUARD
CONSTRUCT MAIN BASE ENTRANCE**

BATTLE CREEK ANGB
BATTLE CREEK, MICHIGAN

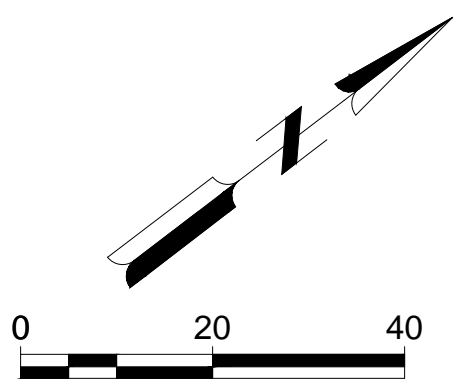
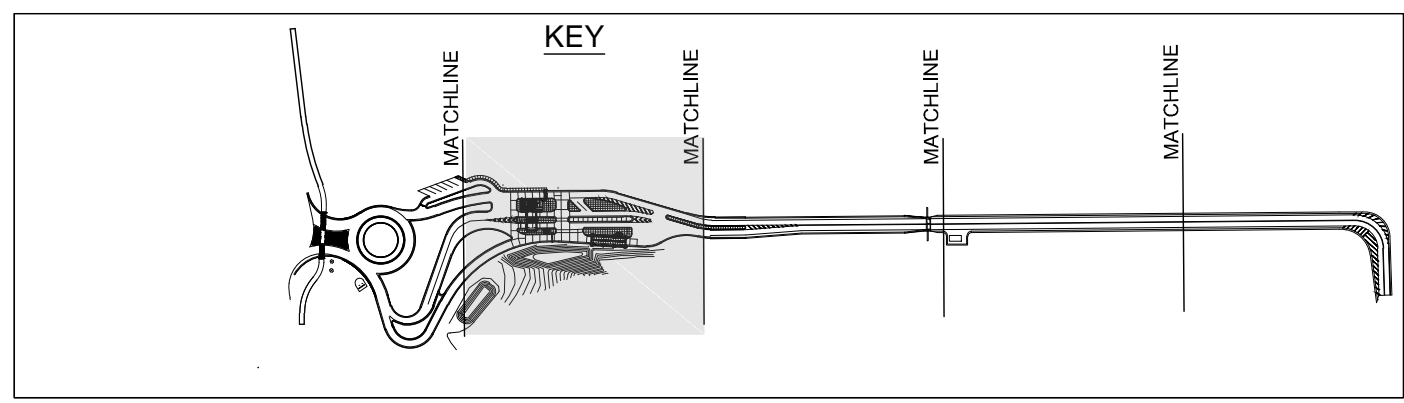
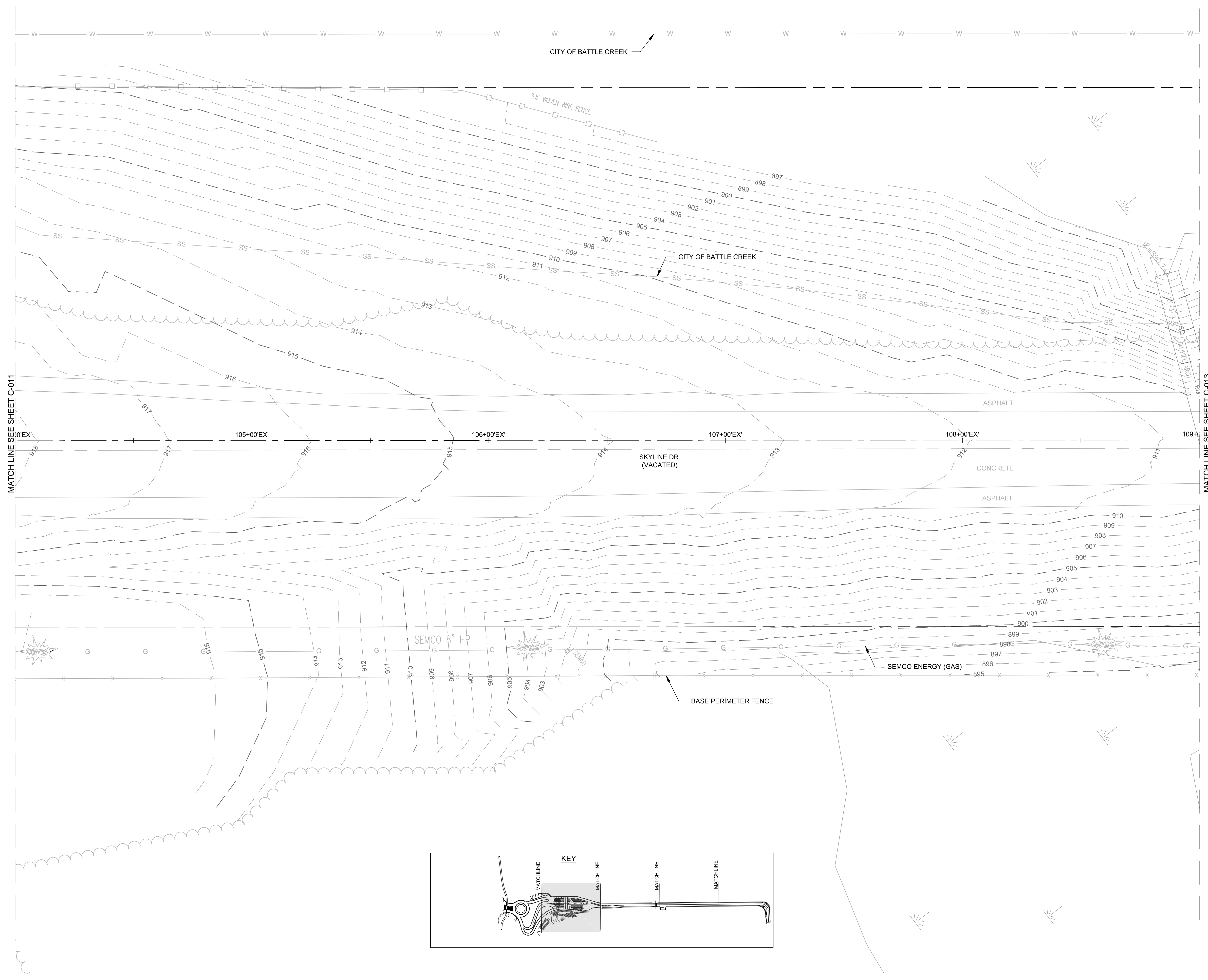
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BATTLE CREEK, MICHIGAN

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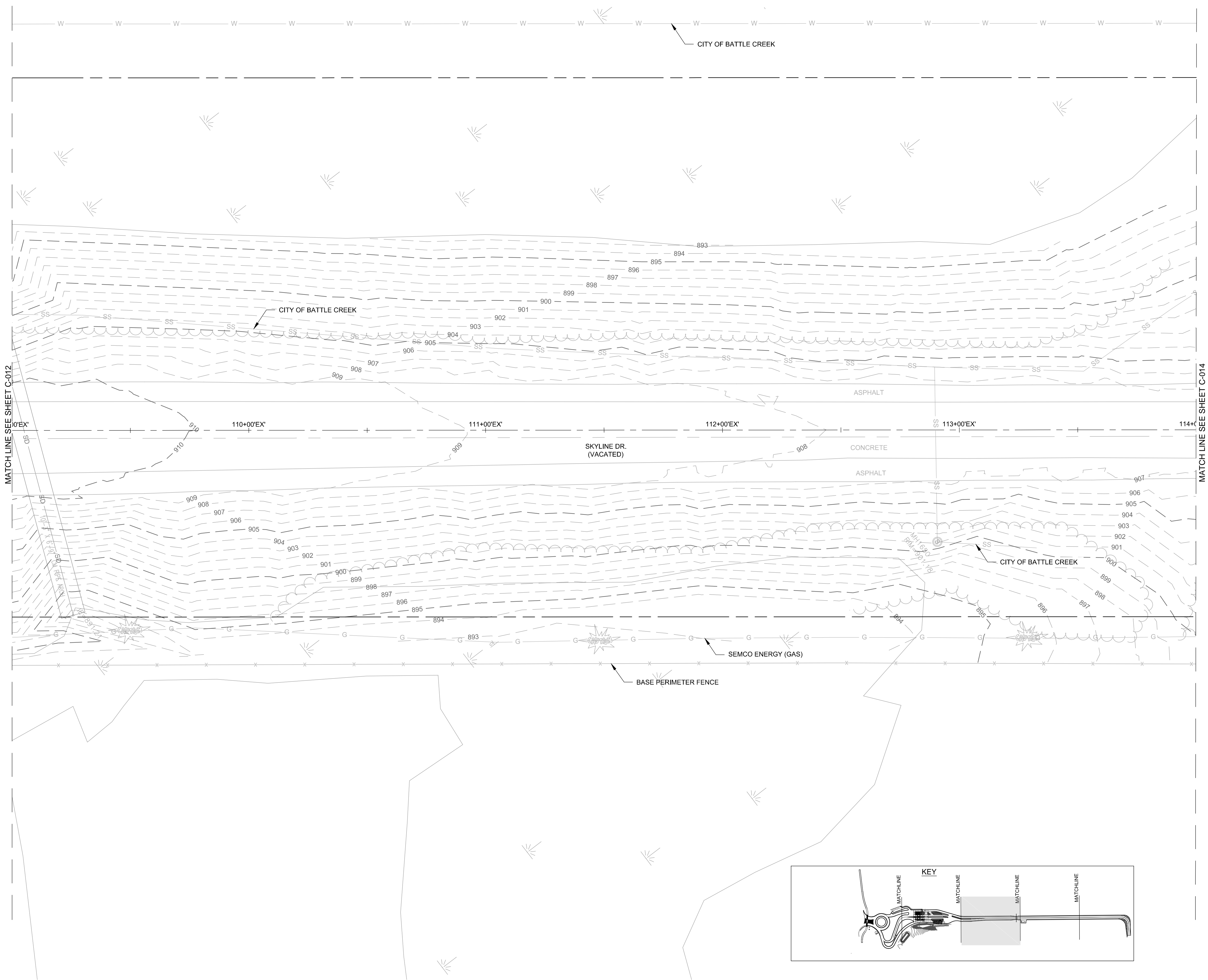
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SHEET CONTENTS
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SHEET NO.

C-013

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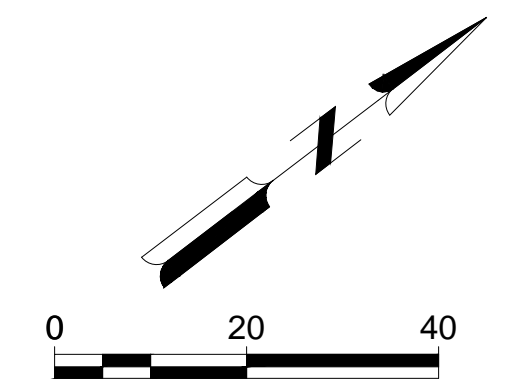
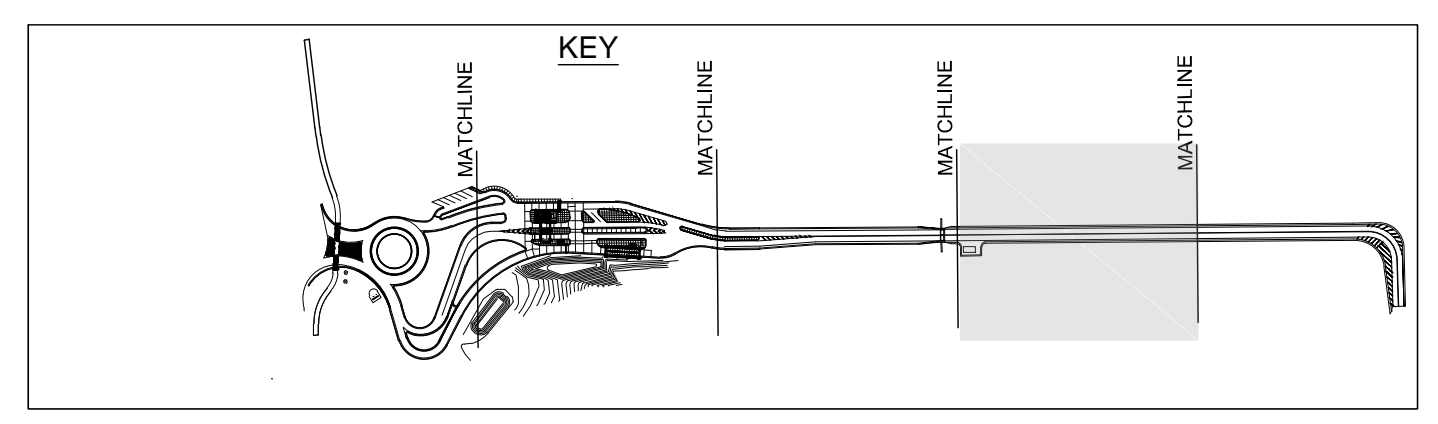
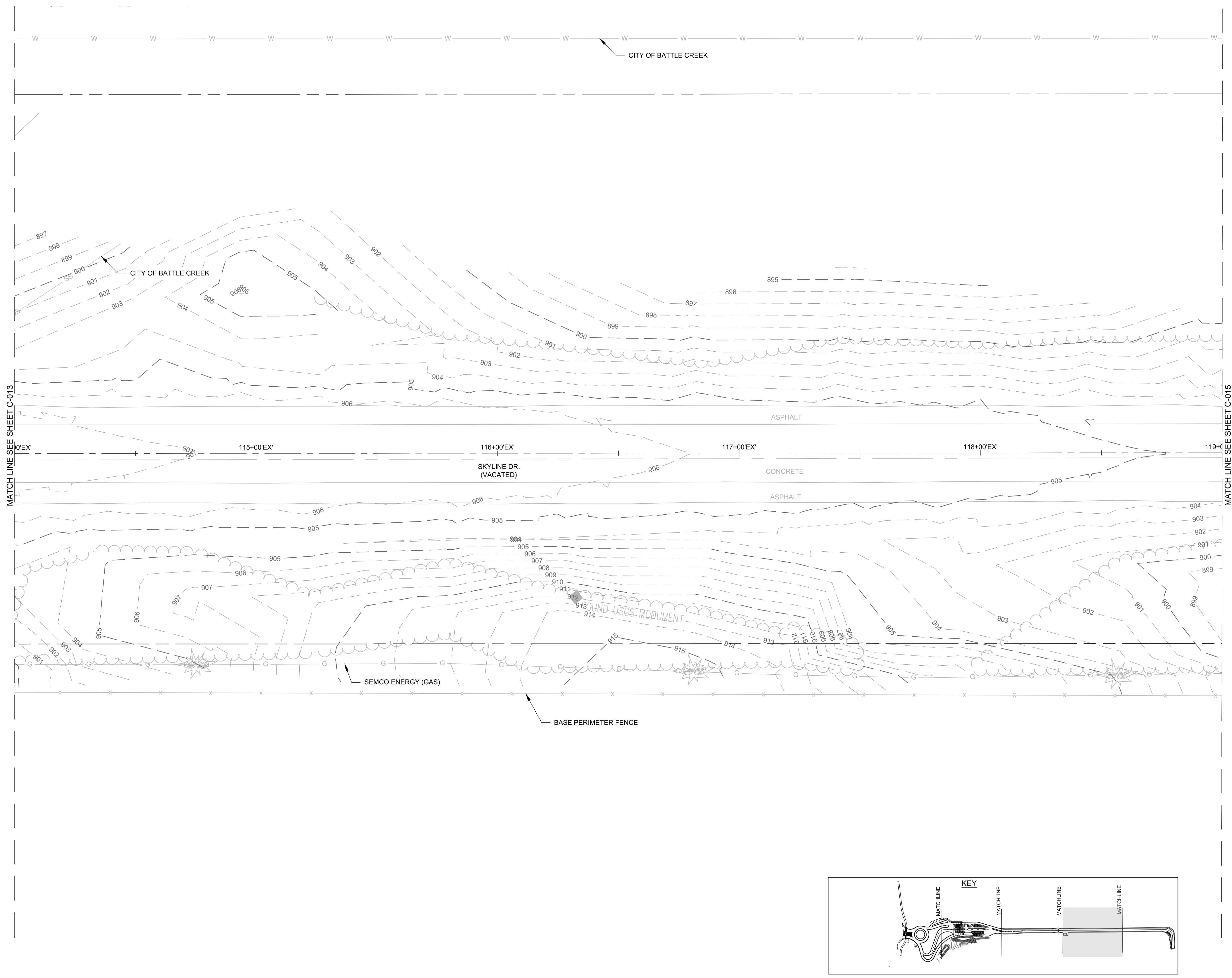
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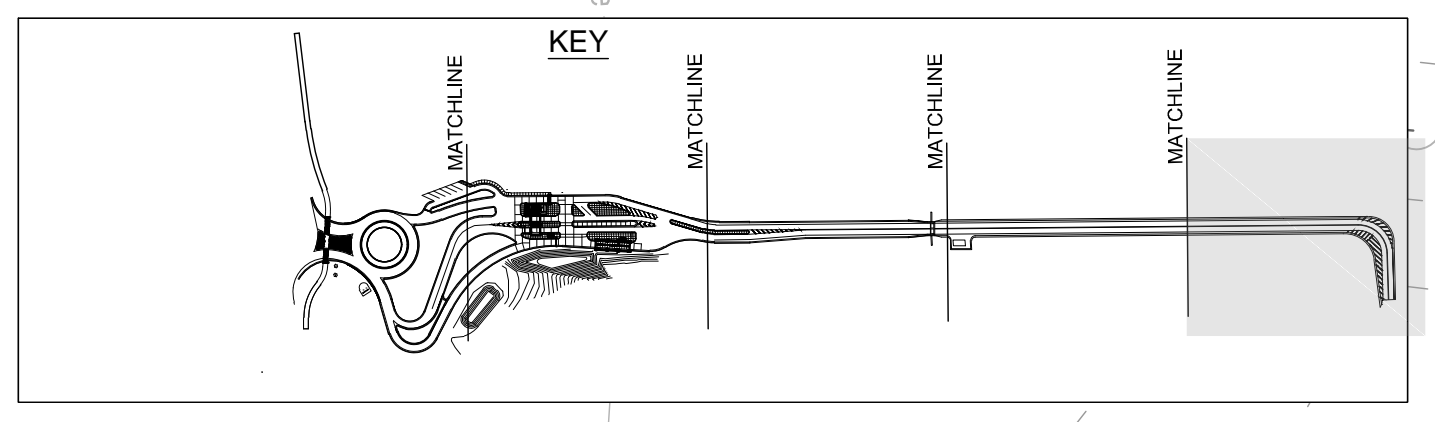
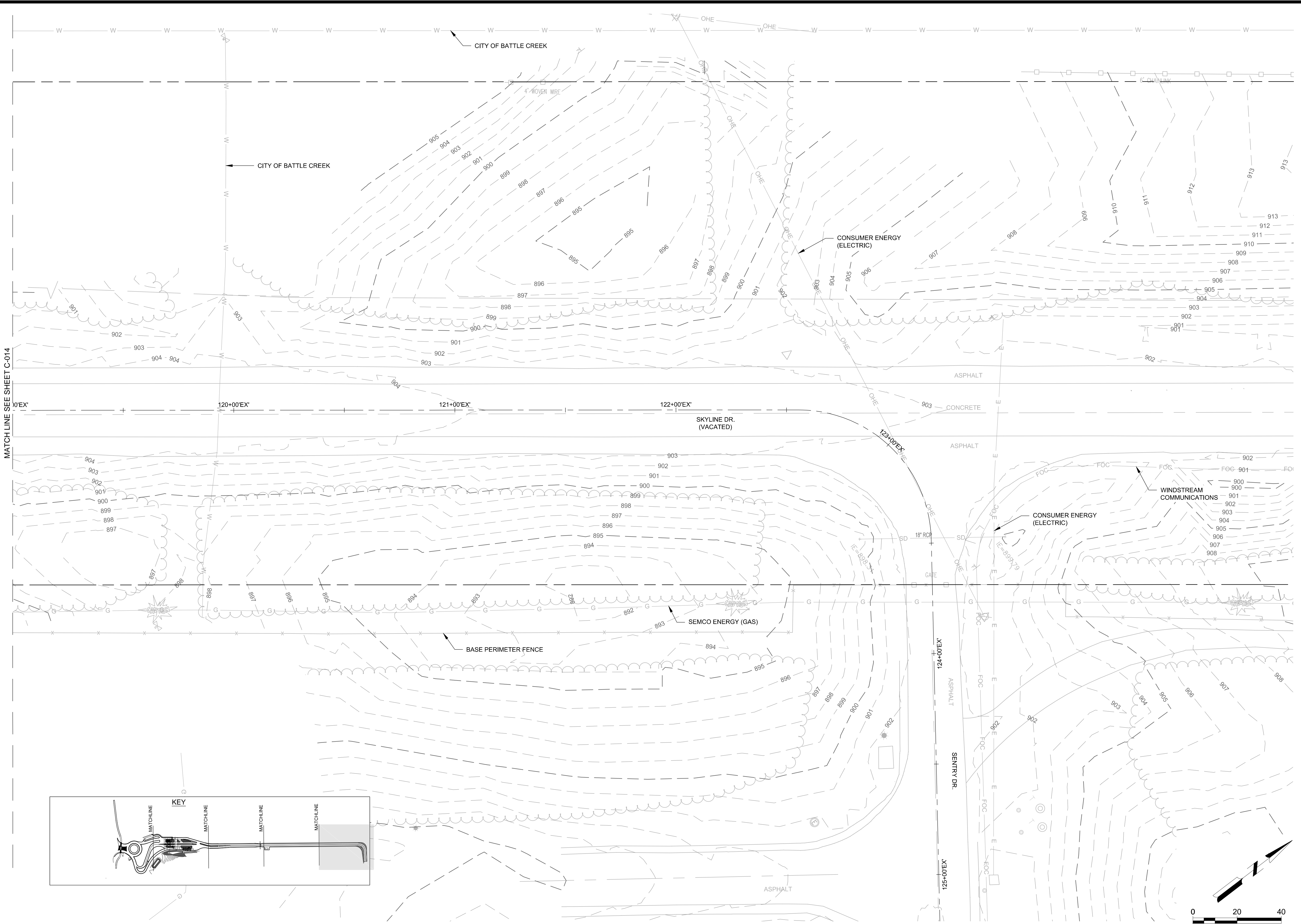
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SHEET NO.

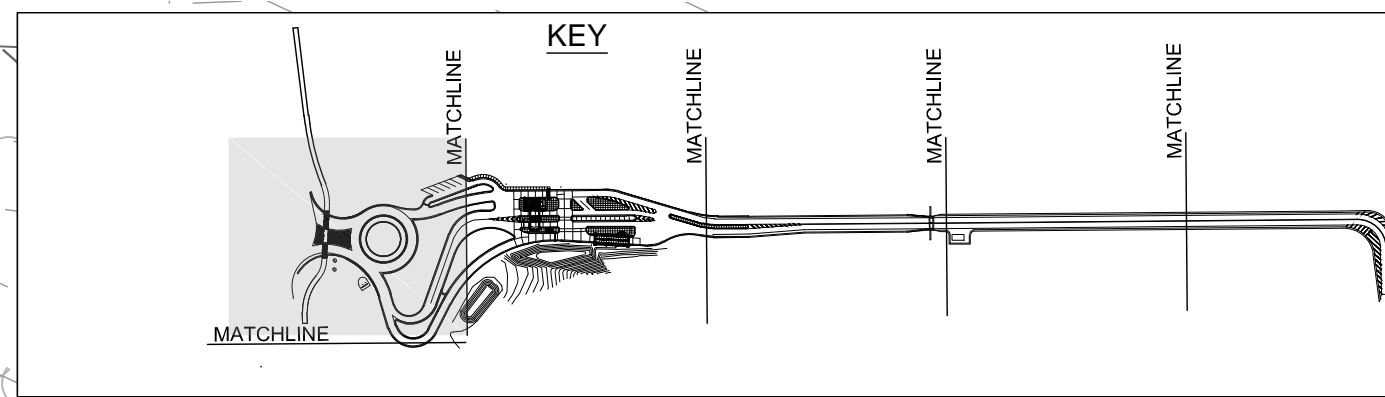
C-015



MATCH LINE SEE SHEET C-014

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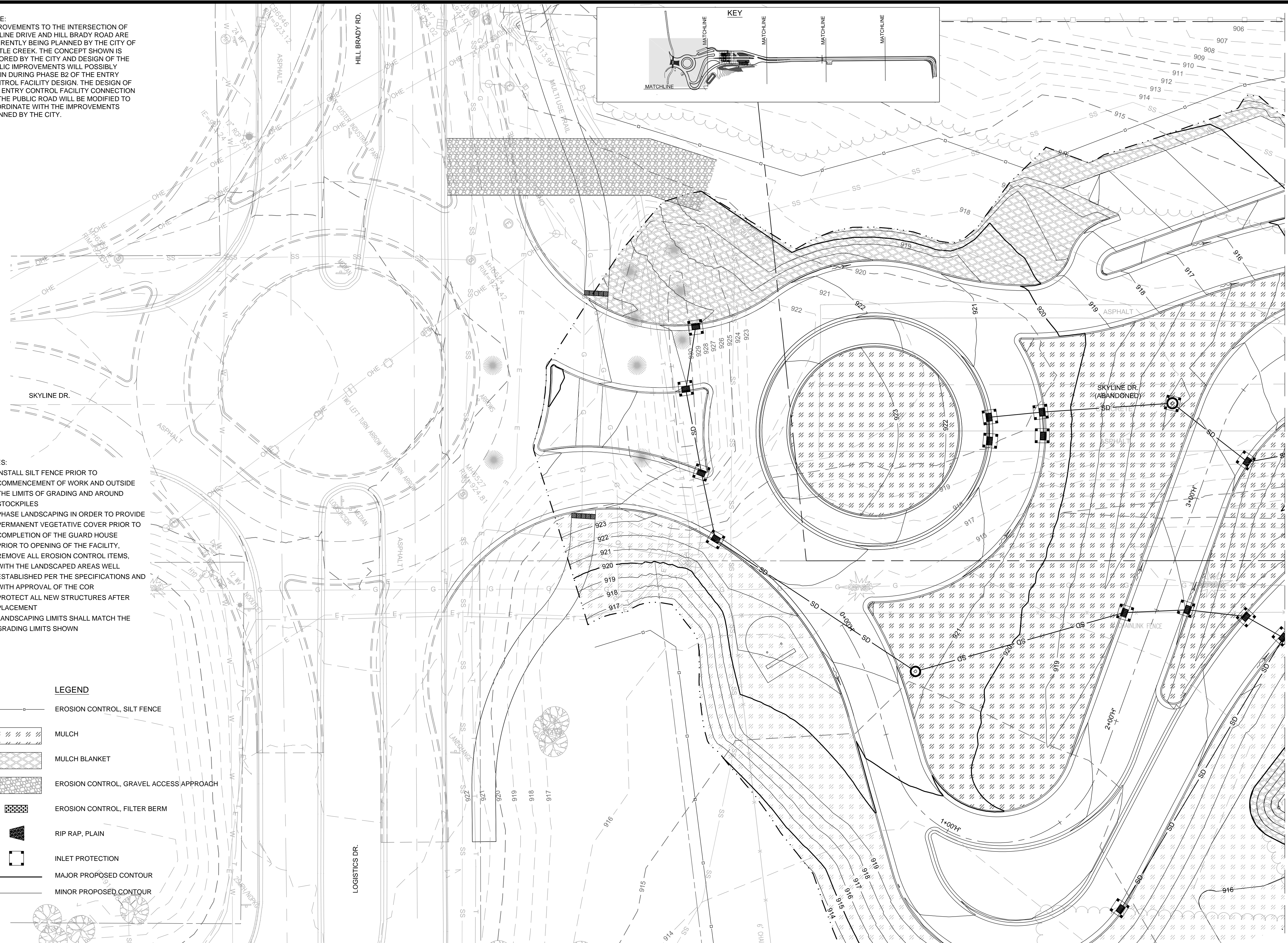
NOTE:
IMPROVEMENTS TO THE INTERSECTION OF SKYLINE DRIVE AND HILL BRADY ROAD ARE CURRENTLY BEING PLANNED BY THE CITY OF BATTLE CREEK. THE CONCEPT SHOWN IS FAVORED BY THE CITY AND DESIGN OF THE PUBLIC IMPROVEMENTS WILL POSSIBLY BEGIN DURING PHASE B2 OF THE ENTRY CONTROL FACILITY DESIGN. THE DESIGN OF THE ENTRY CONTROL FACILITY CONNECTION TO THE PUBLIC ROAD WILL BE MODIFIED TO COORDINATE WITH THE IMPROVEMENTS PLANNED BY THE CITY.



- NOTES:
1. INSTALL SILT FENCE PRIOR TO COMMENCEMENT OF WORK AND OUTSIDE THE LIMITS OF GRADING AND AROUND STOCKPILES
 2. PHASE LANDSCAPING IN ORDER TO PROVIDE PERMANENT VEGETATIVE COVER PRIOR TO COMPLETION OF THE GUARD HOUSE
 3. PRIOR TO OPENING OF THE FACILITY, REMOVE ALL EROSION CONTROL ITEMS, WITH THE LANDSCAPED AREAS WELL ESTABLISHED PER THE SPECIFICATIONS AND WITH APPROVAL OF THE COR
 4. PROTECT ALL NEW STRUCTURES AFTER PLACEMENT
 5. LANDSCAPING LIMITS SHALL MATCH THE GRADING LIMITS SHOWN

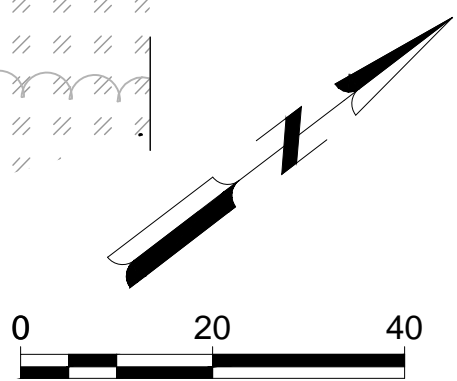
LEGEND

- EROSION CONTROL, SILT FENCE
- MULCH
- MULCH BLANKET
- EROSION CONTROL, GRAVEL ACCESS APPROACH
- EROSION CONTROL, FILTER BERM
- RIP RAP, PLAIN
- INLET PROTECTION
- MAJOR PROPOSED CONTOUR
- MINOR PROPOSED CONTOUR



MATCH LINE SEE SHEET C-022

MATCH LINE SEE SHEET C-023



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SHEET CONTENTS
EROSION CONTROL PLANS

SHEET NO.

C-021

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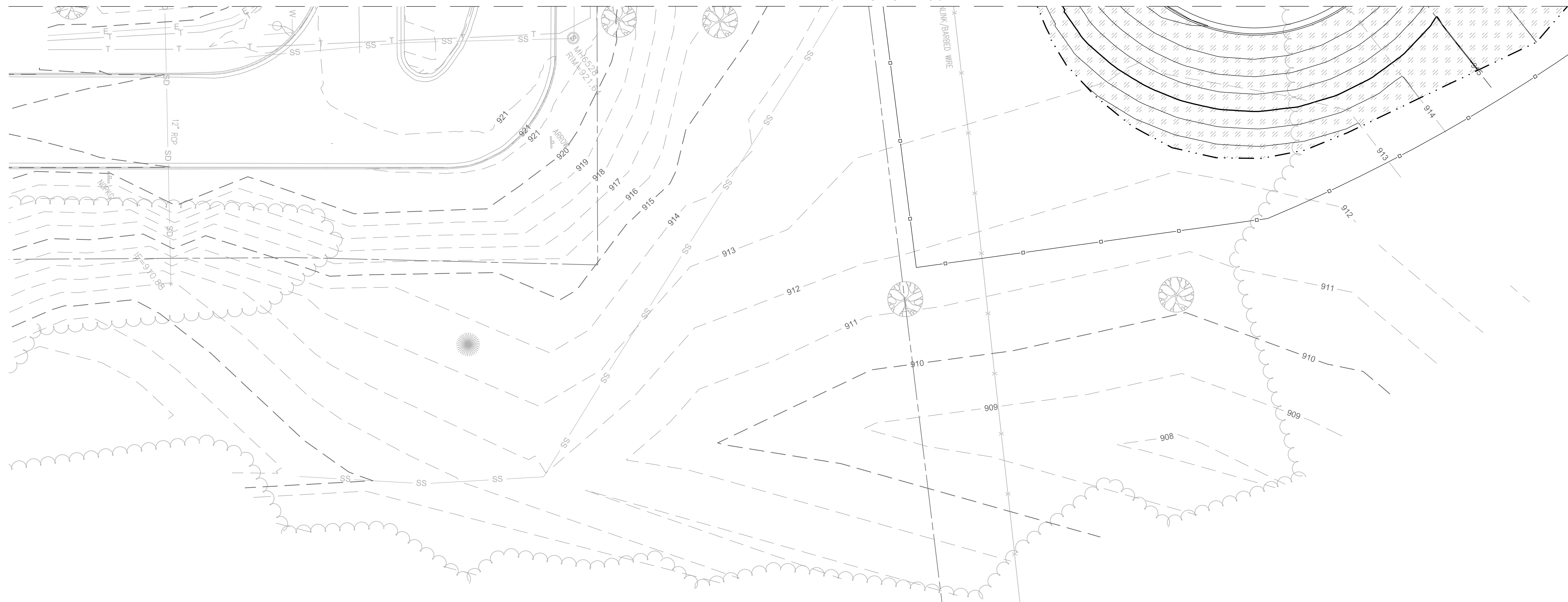
SHEET CONTENTS
EROSION CONTROL
PLANS

SHEET NO.

C-022

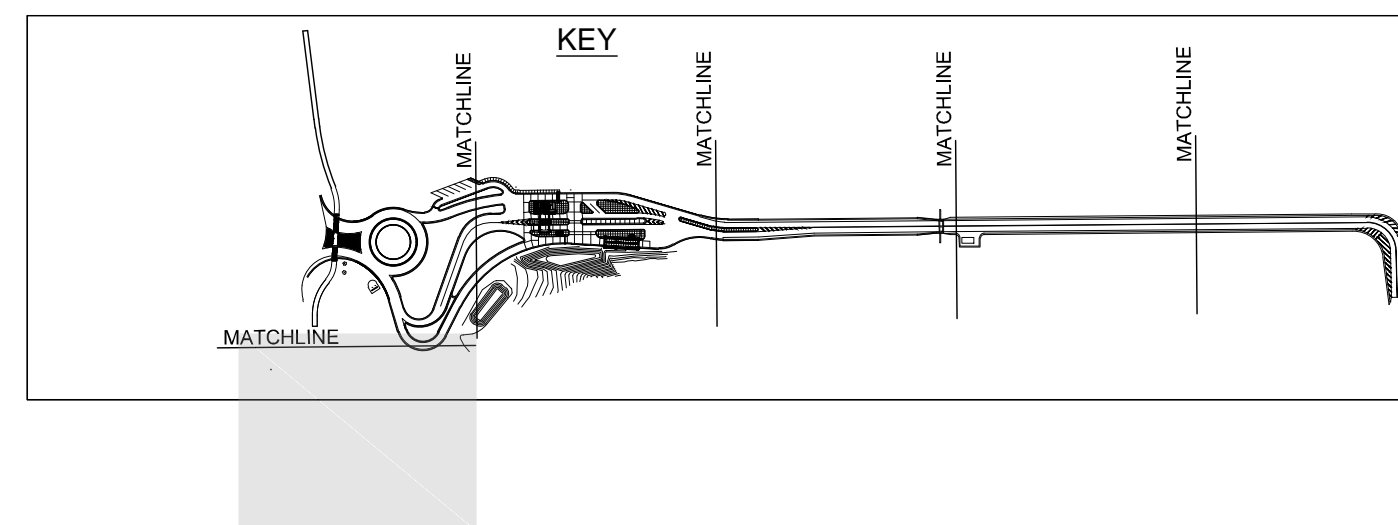
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MATCH LINE SEE SHEET C-023



LEGEND

- EROSION CONTROL, SILT FENCE
- MULCH
- MULCH BLANKET
- EROSION CONTROL, GRAVEL ACCESS APPROACH
- EROSION CONTROL, FILTER BERM
- RIP RAP, PLAIN
- INLET PROTECTION
- MAJOR PROPOSED CONTOUR
- MINOR PROPOSED CONTOUR





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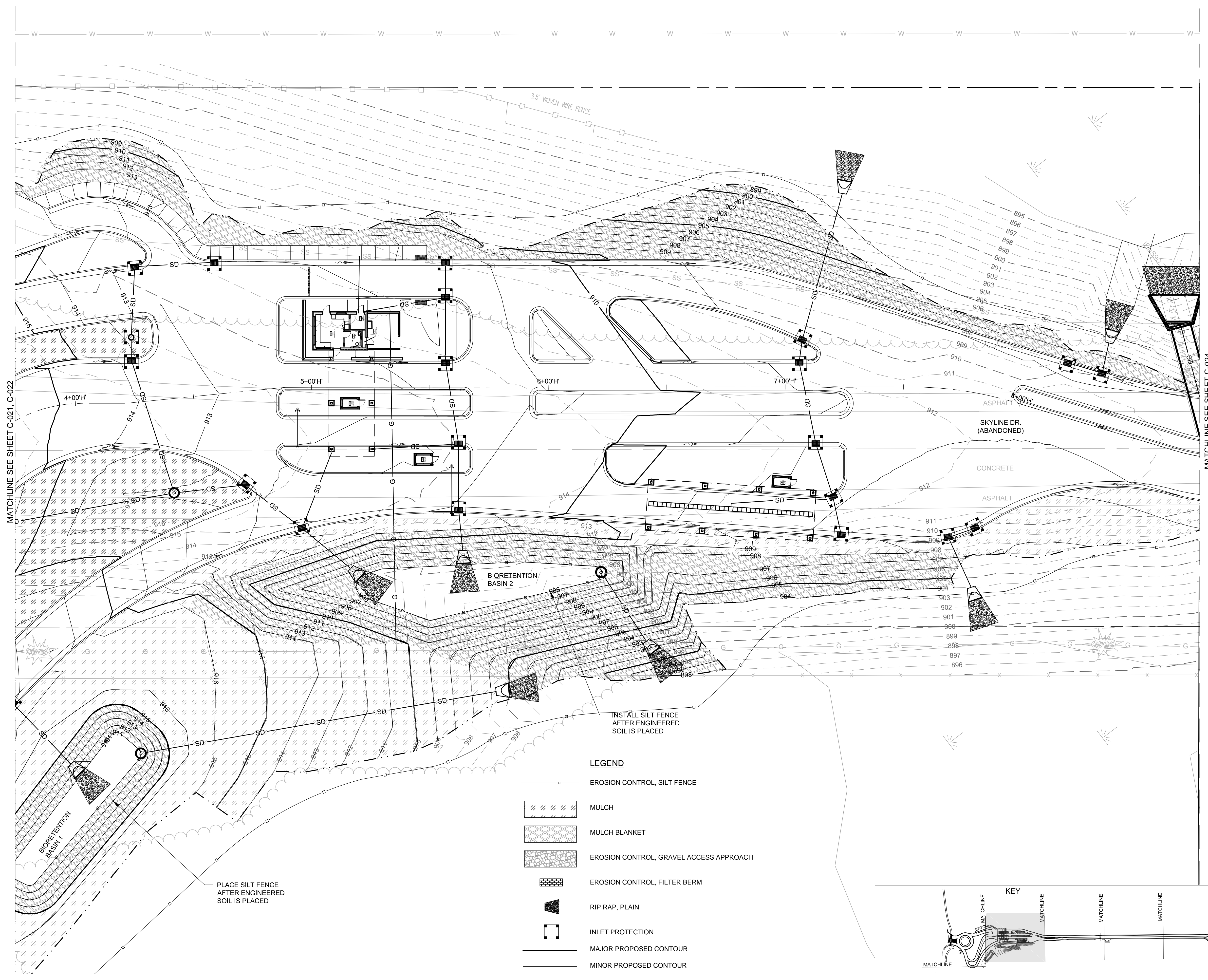
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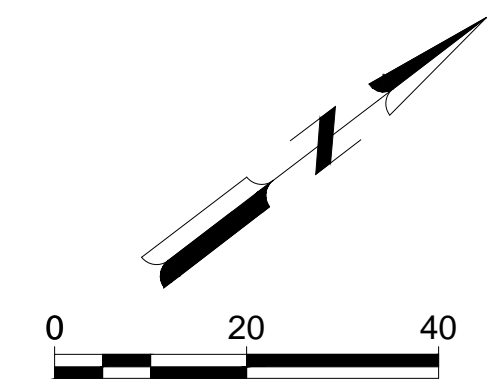
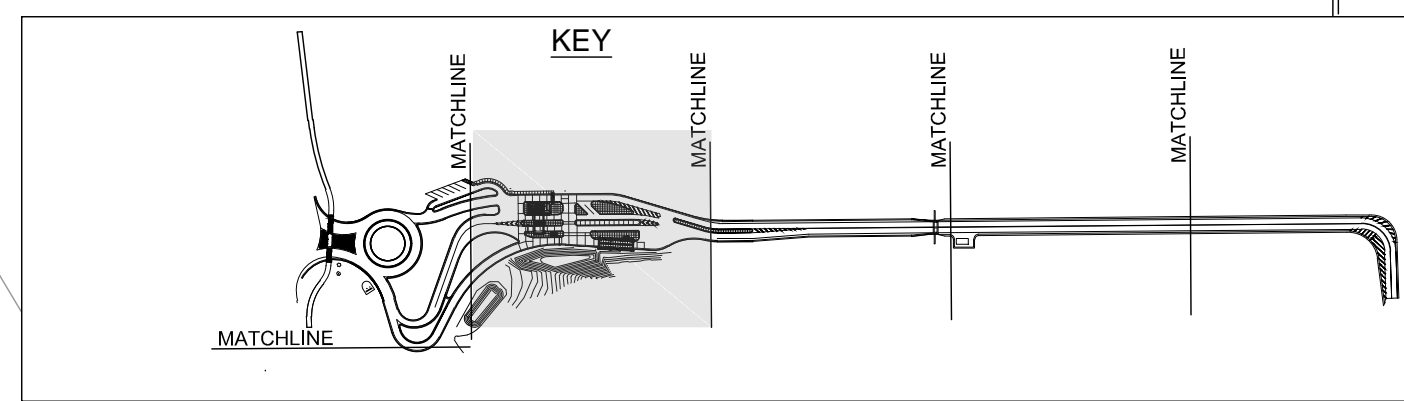
SHEET CONTENTS
EROSION CONTROL
PLANS

SHEET NO.

C-023



- LEGEND**
- EROSION CONTROL, SILT FENCE
 - MULCH
 - MULCH BLANKET
 - EROSION CONTROL, GRAVEL ACCESS APPROACH
 - EROSION CONTROL, FILTER BERM
 - RIP RAP, PLAIN
 - INLET PROTECTION
 - MAJOR PROPOSED CONTOUR
 - MINOR PROPOSED CONTOUR



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MATCHLINE SEE SHEET C-021, C-022

MATCHLINE SEE SHEET C-024

PLACE SILT FENCE
AFTER ENGINEERED
SOIL IS PLACED

INSTALL SILT FENCE
AFTER ENGINEERED
SOIL IS PLACED

SKYLINE DR.
(ABANDONED)

CONCRETE

ASPHALT

BIORETENTION
BASIN 2

BIORETENTION
BASIN 1



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CONSTRUCT MAIN BASE ENTRANCE**

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BATTLE CREEK, MICHIGAN

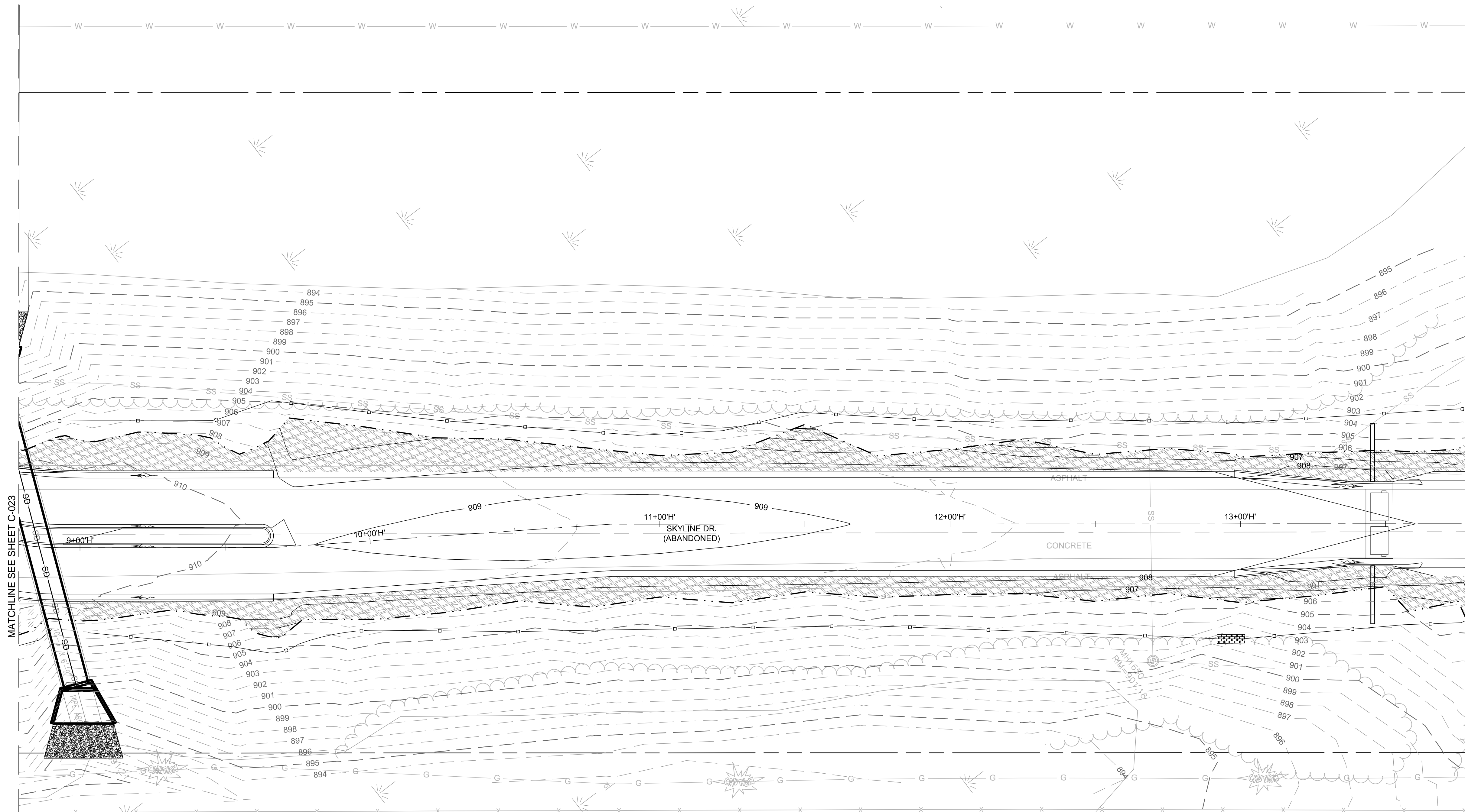
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M&H No: 3141900-113782.01
DATE: FEBRUARY 17, 2021
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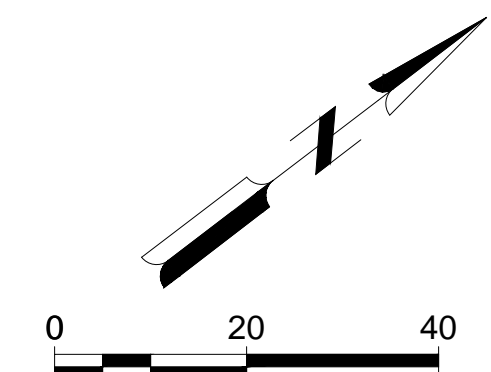
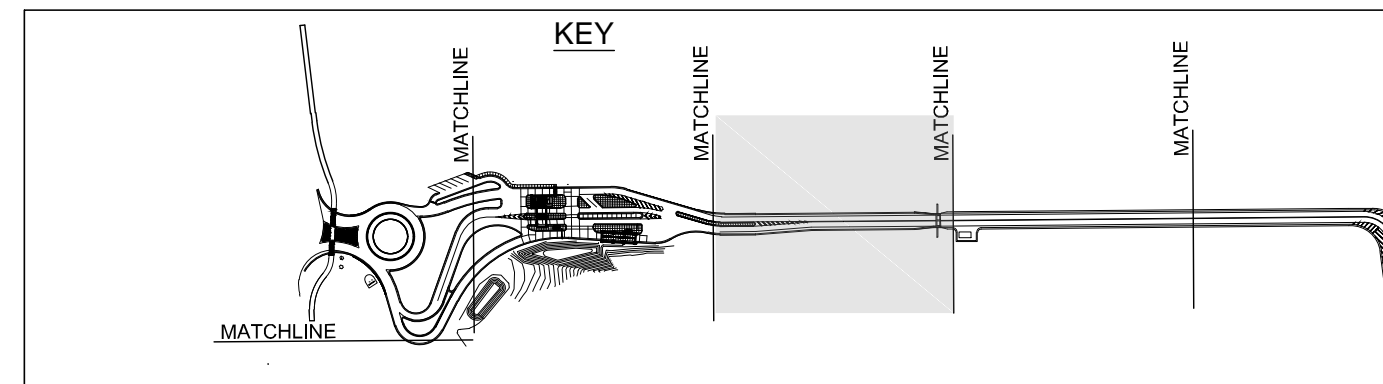
SHEET CONTENTS
EROSION CONTROL
PLANS

SHEET NO.

C-024



- LEGEND**
- EROSION CONTROL, SILT FENCE
 - MULCH
 - MULCH BLANKET
 - EROSION CONTROL, GRAVEL ACCESS APPROACH
 - EROSION CONTROL, FILTER BERM
 - RIP RAP, PLAIN
 - INLET PROTECTION
 - MAJOR PROPOSED CONTOUR
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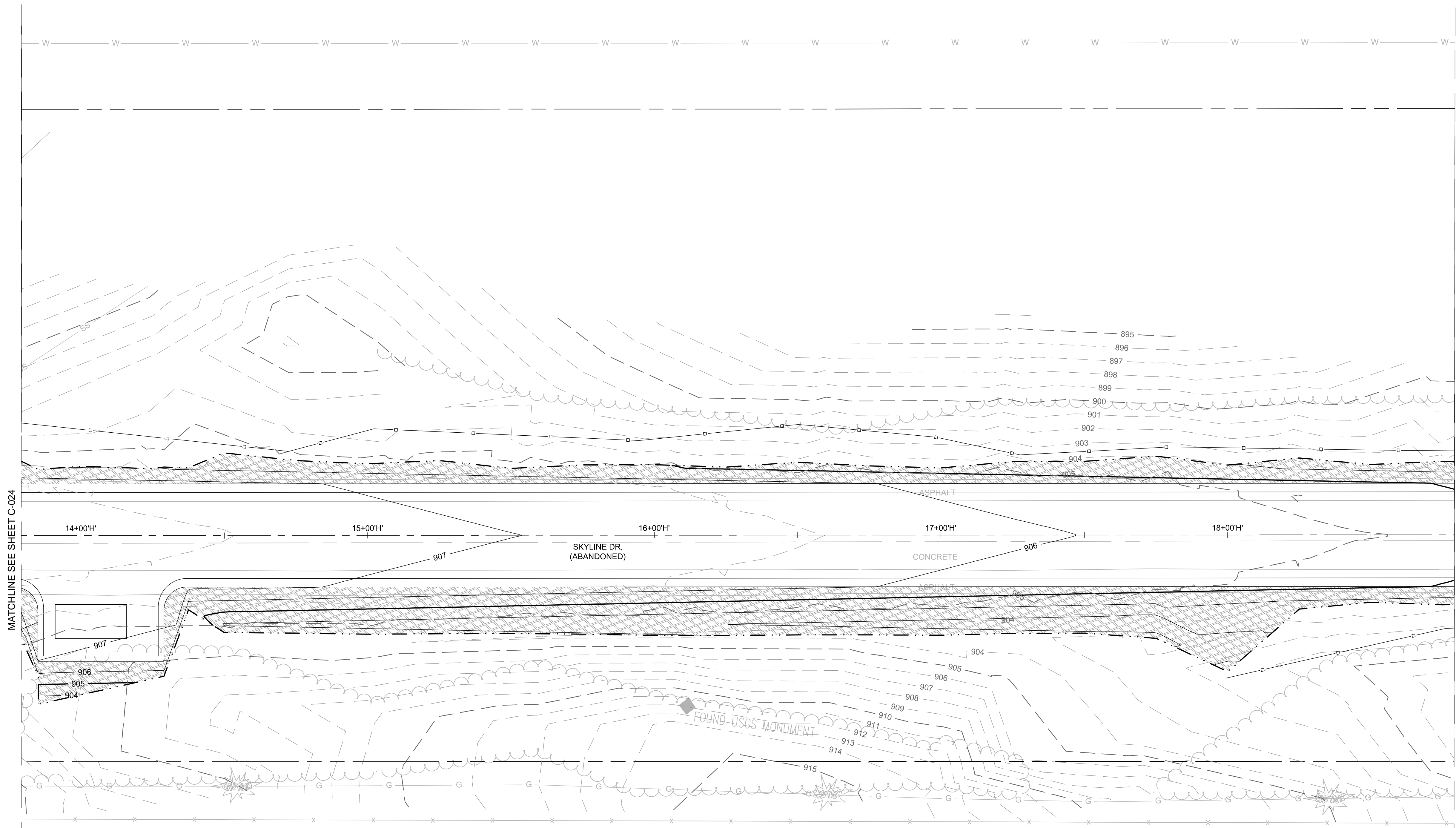
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SHEET CONTENTS
EROSION CONTROL
PLANS

SHEET NO.




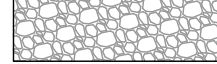
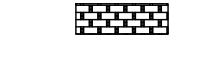




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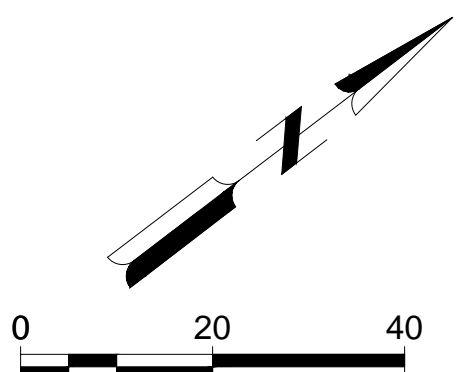
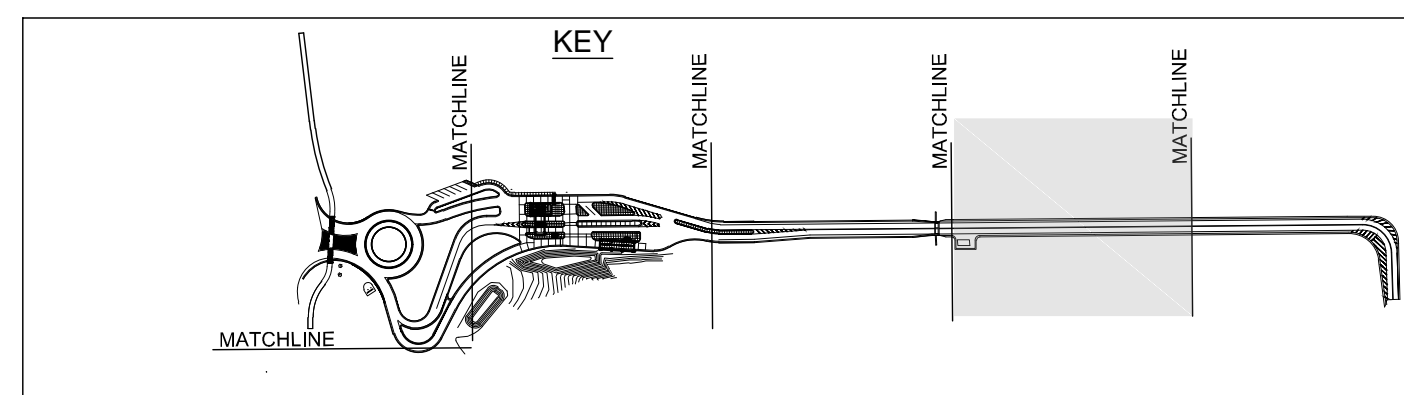


MATCHLINE SEE SHEET C-024

MATCHLINE SEE SHEET C-026

LEGEND

-  EROSION CONTROL, SILT FENCE
-  MULCH
-  MULCH BLANKET
-  EROSION CONTROL, GRAVEL ACCESS APPROACH
-  EROSION CONTROL, FILTER BERM
-  RIP RAP, PLAIN
-  INLET PROTECTION
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-  MINOR PROPOSED CONTOUR





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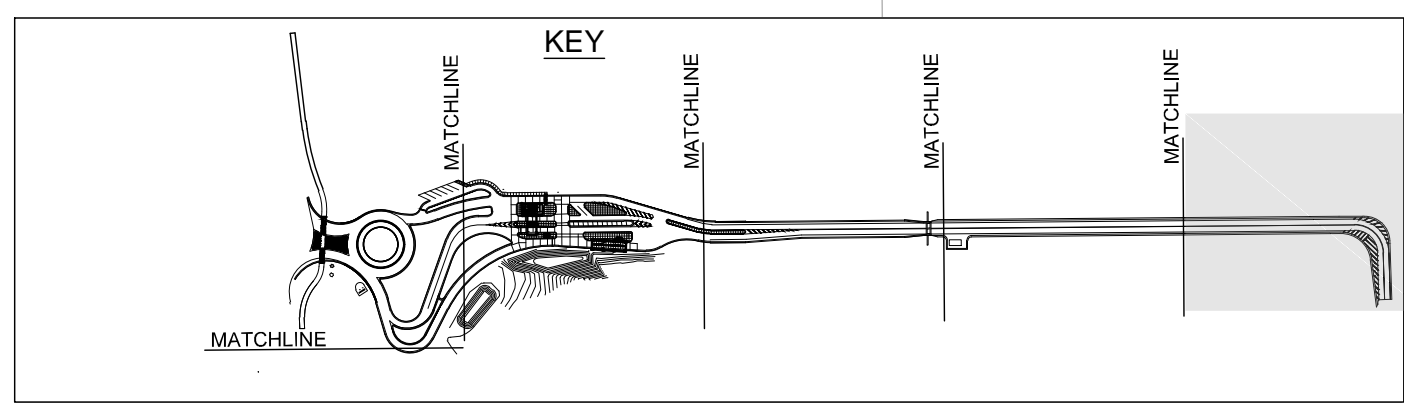
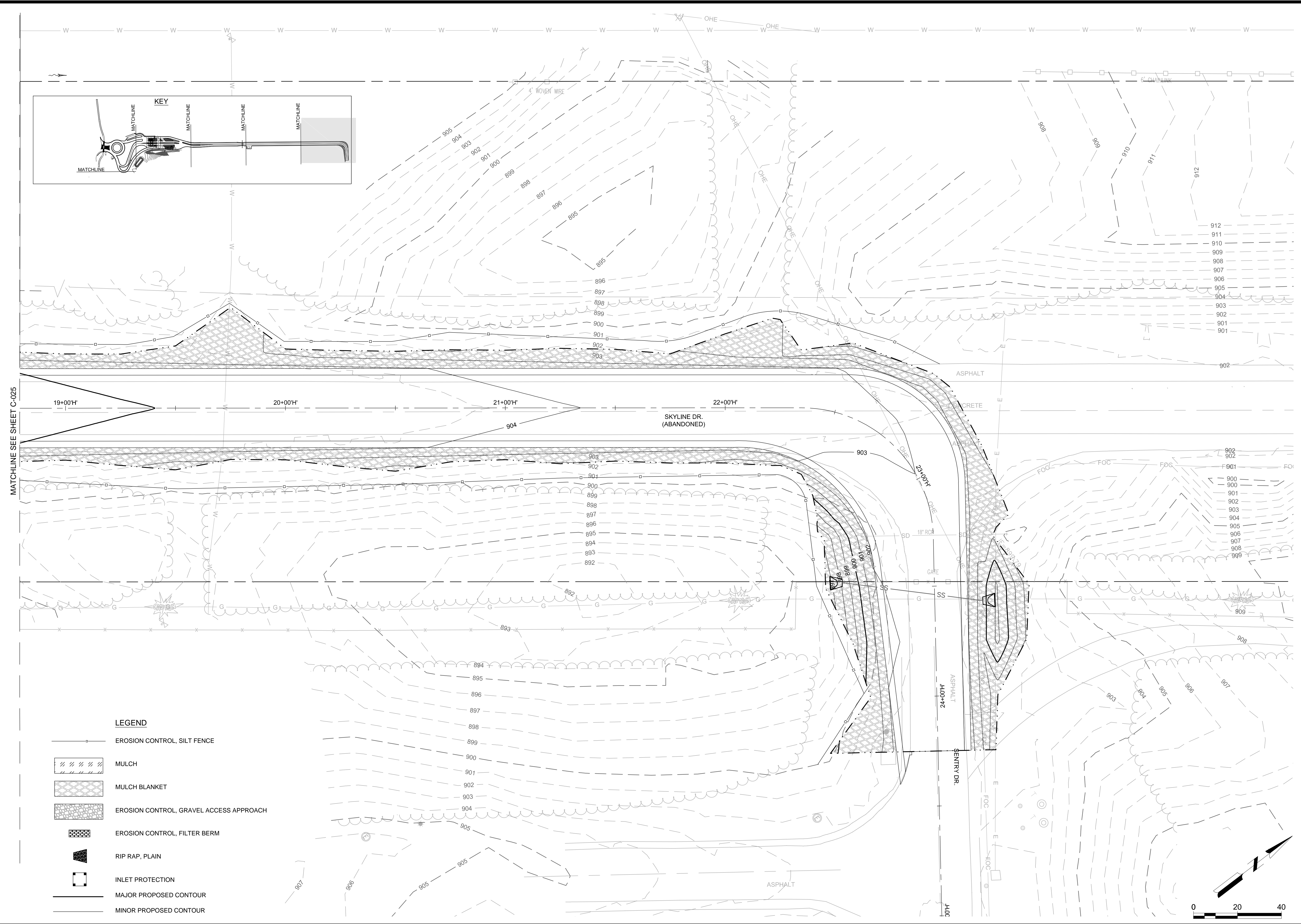
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SHEET CONTENTS
EROSION CONTROL
PLANS

SHEET NO.

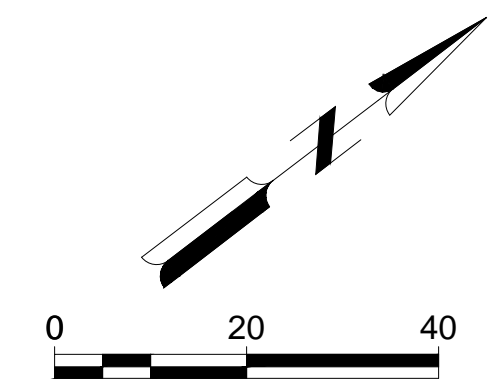
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




LEGEND

- EROSION CONTROL, SILT FENCE
- MULCH
- MULCH BLANKET
- EROSION CONTROL, GRAVEL ACCESS APPROACH
- EROSION CONTROL, FILTER BERM
- RIP RAP, PLAIN
- INLET PROTECTION
- MAJOR PROPOSED CONTOUR
- MINOR PROPOSED CONTOUR

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LEGEND

-  CLEARING
-  PAVEMENT REMOVAL
-  HMA SURFACE REMOVAL
-  FENCE REMOVAL
-  CURB AND GUTTER REMOVAL

DEMOLITION SPECIFICATIONS

3.2 CONCURRENT EARTH-MOVING OPERATIONS

DO NOT BEGIN EXCAVATION, FILLING, AND OTHER EARTH-MOVING OPERATIONS THAT ARE SEQUENTIAL TO DEMOLITION OR DECONSTRUCTION WORK IN AREAS OCCUPIED BY STRUCTURES TO BE DEMOLISHED OR DECONSTRUCTED UNTIL ALL DEMOLITION AND DECONSTRUCTION IN THE AREA HAS BEEN COMPLETED AND DEBRIS REMOVED. FILL HOLES, OPEN PITS AND OTHER HAZARDOUS OPENINGS.

3.3 DISPOSITION OF MATERIAL

EXCEPT FOR SALVAGED ITEMS SPECIFIED AND FOR MATERIALS OR EQUIPMENT SCHEDULED FOR SALVAGE, ALL MATERIALS AND EQUIPMENT REMOVED AND NOT REUSED OR SALVAGED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM GOVERNMENT PROPERTY. TITLE TO MATERIALS RESULTING FROM DEMOLITION AND DECONSTRUCTION, AND MATERIALS AND EQUIPMENT TO BE REMOVED, IS VESTED IN THE CONTRACTOR UPON APPROVAL BY THE CONTRACTING OFFICER'S REPRESENTATIVE OF THE CONTRACTOR'S DEMOLITION, DECONSTRUCTION, AND REMOVAL PROCEDURES, AND AUTHORIZATION BY THE CONTRACTING OFFICER'S REPRESENTATIVE TO BEGIN DEMOLITION AND DECONSTRUCTION. THE GOVERNMENT WILL NOT BE RESPONSIBLE FOR THE CONDITION OR LOSS OF, OR DAMAGE TO, SUCH PROPERTY AFTER CONTRACT AWARD. SHOWING FOR SALE OR SELLING MATERIALS AND EQUIPMENT ON SITE IS PROHIBITED.

3.3.3 SALVAGED MATERIALS AND EQUIPMENT

MATERIALS AND EQUIPMENT THAT ARE SHOWN TO BE REMOVED BY THE CONTRACTOR AND ARE TO REMAIN THE PROPERTY OF THE GOVERNMENT SHALL BE PLACED AT A STORAGE SITE DETERMINED BY THE CONTRACTING OFFICER'S REPRESENTATIVE.

A. SALVAGE ITEMS AND MATERIAL TO THE MAXIMUM EXTENT POSSIBLE.

B. STORE ALL MATERIALS SALVAGED FOR THE CONTRACTOR AS APPROVED BY THE CONTRACTING OFFICER AND REMOVE FROM GOVERNMENT PROPERTY BEFORE COMPLETION OF THE CONTRACT. ON SITE SALES OF SALVAGED MATERIAL IS PROHIBITED.

C. REMOVE SALVAGED ITEMS TO REMAIN THE PROPERTY OF THE GOVERNMENT IN A MANNER TO PREVENT DAMAGE, AND PACKED OR CRATED TO PROTECT THE ITEMS FROM DAMAGE WHILE IN STORAGE OR DURING SHIPMENT. ITEMS DAMAGED DURING REMOVAL OR STORAGE MUST BE REPAIRED OR REPLACED TO MATCH EXISTING ITEMS. PROPERLY IDENTIFY THE CONTENTS OF CONTAINERS. DELIVER THE FOLLOWING ITEMS RESERVED AS PROPERTY OF THE GOVERNMENT TO THE AREAS DESIGNATED BY THE CONTRACTING OFFICER.

3.5 DISPOSAL OF REMOVED MATERIALS

3.5.1 REGULATION OF REMOVED MATERIALS

DISPOSE OF DEBRIS, RUBBISH, SCRAP, AND OTHER NONSALVAGEABLE MATERIALS RESULTING FROM REMOVAL OPERATIONS PER ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS AS CONTRACTUALLY SPECIFIED. STORAGE OF REMOVED MATERIALS ON THE PROJECT SITE IS PROHIBITED.

3.5.2 BURNING ON GOVERNMENT PROPERTY

BURNING OF MATERIALS REMOVED FROM DEMOLISHED AND DECONSTRUCTED STRUCTURES WILL NOT BE PERMITTED ON GOVERNMENT PROPERTY.

3.5.3 REMOVAL FROM GOVERNMENT PROPERTY

TRANSPORT WASTE MATERIALS REMOVED FROM DEMOLISHED AND DECONSTRUCTED STRUCTURES, EXCEPT WASTE SOIL, FROM GOVERNMENT PROPERTY FOR LEGAL DISPOSAL.

3.5.4 REUSE OF SALVAGED ITEMS

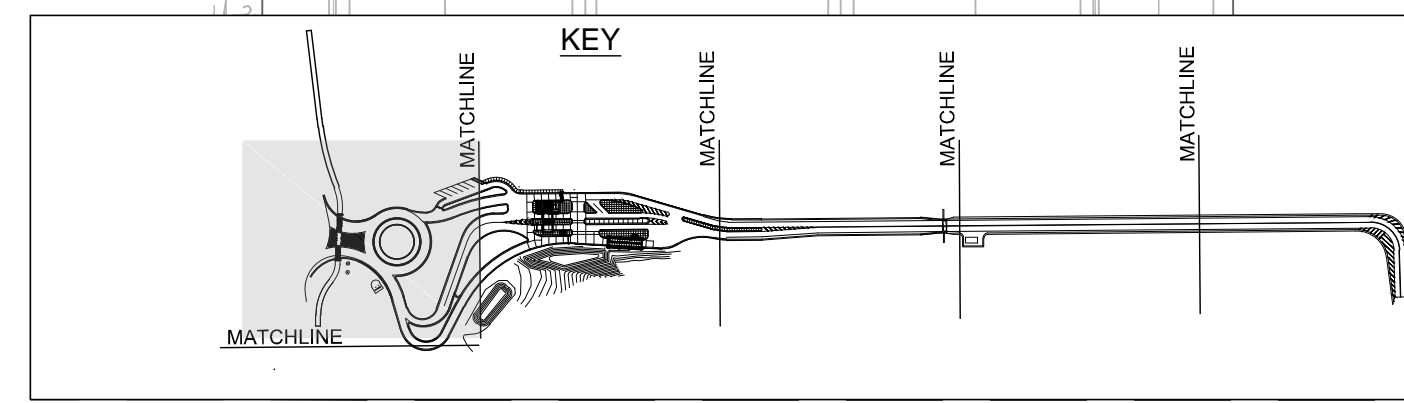
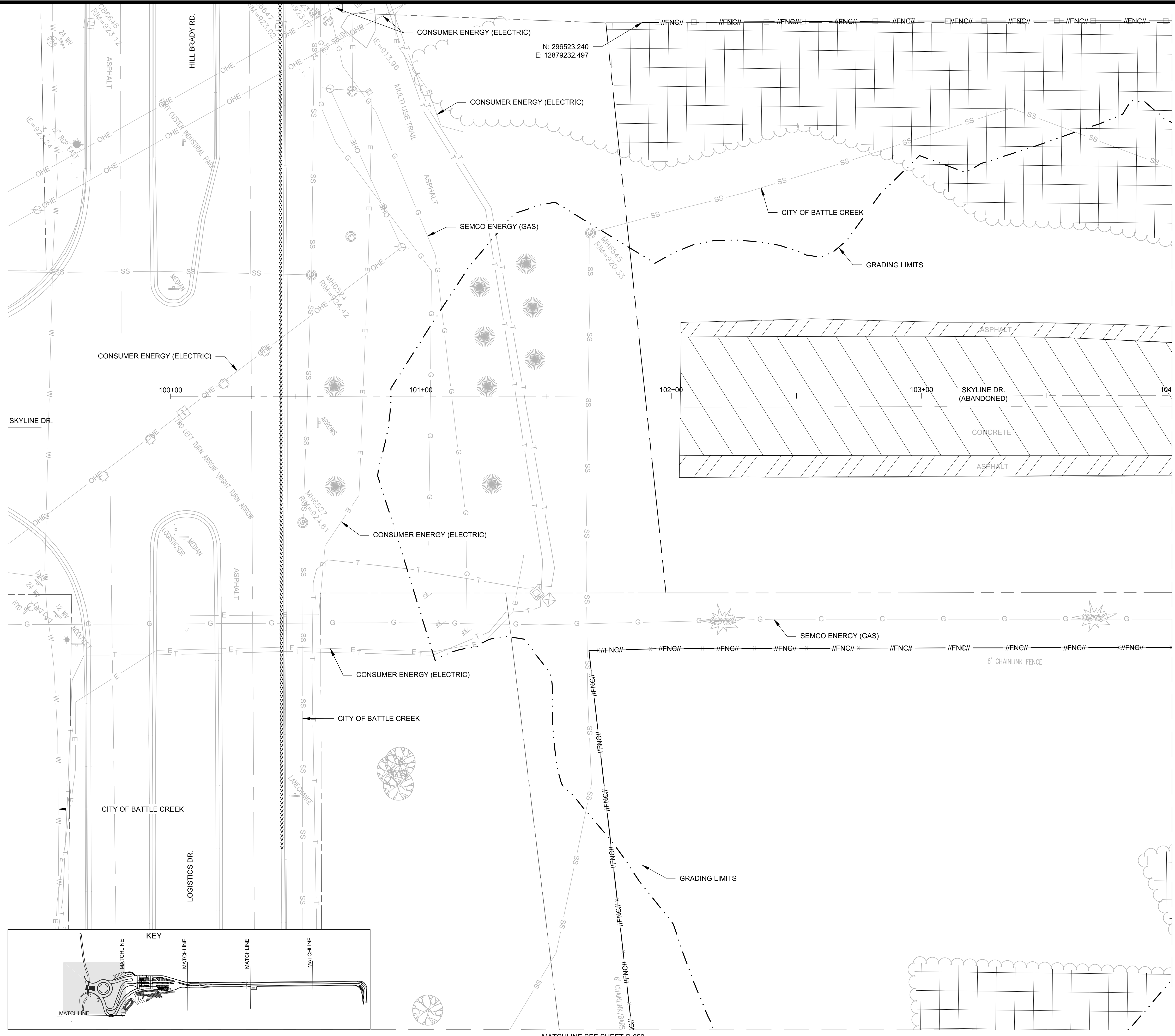
RECONDITION SALVAGED MATERIALS AND EQUIPMENT DESIGNATED FOR REUSE BEFORE INSTALLATION. REPLACE ITEMS DAMAGED DURING REMOVAL AND SALVAGE OPERATIONS OR RESTORE THEM AS NECESSARY TO USABLE CONDITION.

NOTE:

1. AFTER DEMOLITION AND REMOVAL OF BUILDINGS AND EQUIPMENT, AREAS SHALL BE BACKFILLED W/ SATISFACTORY MATERIAL.
2. PLACE MINIMUM 4" TOPSOIL, SEED, FERTILIZE, MULCH, AND STABILIZE ALL AREAS PER SPECIFICATIONS.
3. PLACE ORANGE CONSTRUCTION FENCE AROUND ALL EXCAVATIONS.

NOTE:

IMPROVEMENTS TO THE INTERSECTION OF SKYLINE DRIVE AND HILL BRADY ROAD ARE CURRENTLY BEING PLANNED BY THE CITY OF BATTLE CREEK. THE CONCEPT SHOWN IS FAVORED BY THE CITY AND DESIGN OF THE PUBLIC IMPROVEMENTS WILL POSSIBLY BEGIN DURING PHASE B2 OF THE ENTRY CONTROL FACILITY DESIGN. THE DESIGN OF THE ENTRY CONTROL FACILITY CONNECTION TO THE PUBLIC ROAD WILL BE MODIFIED TO COORDINATE WITH THE IMPROVEMENTS PLANNED BY THE CITY.



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CONSTRUCT MAIN BASE ENTRANCE**
BATTLE CREEK ANGB
BATTLE CREEK, MICHIGAN

ISSUED 02/17/21 B3 FINAL


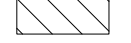


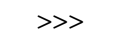
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M&H No.: 3141900-113782.01
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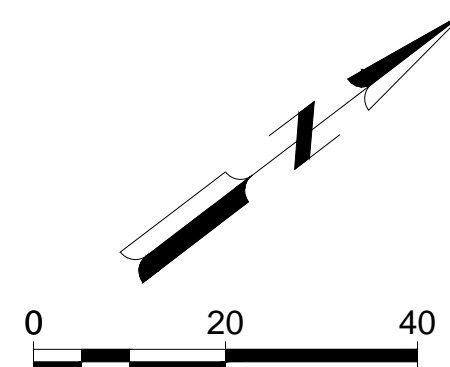
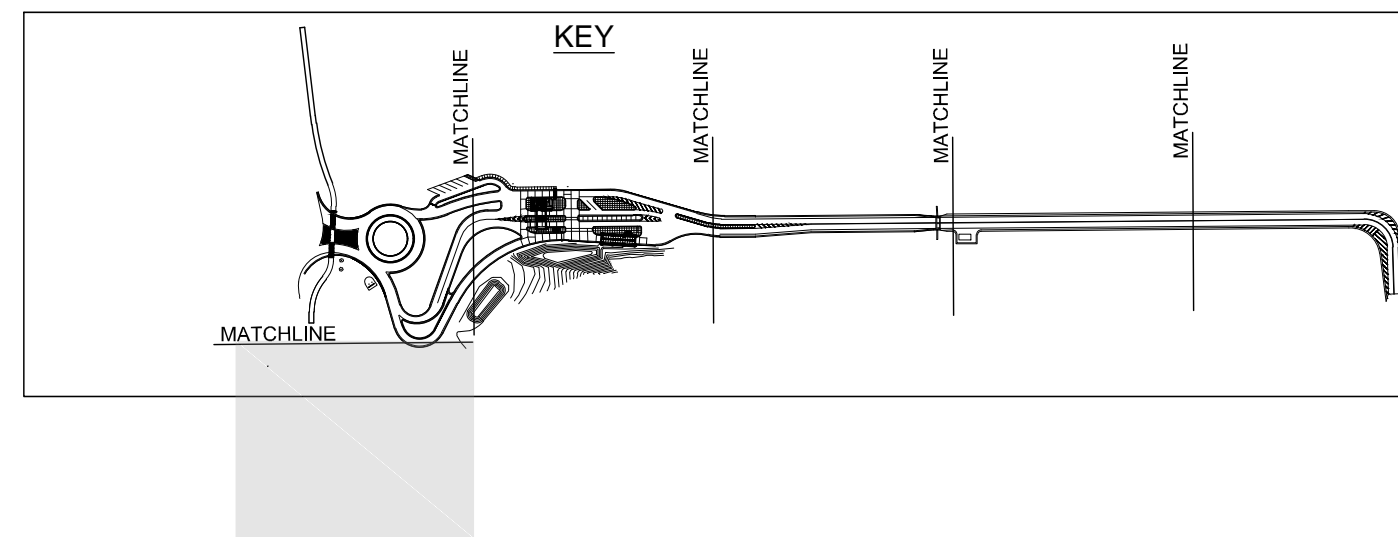
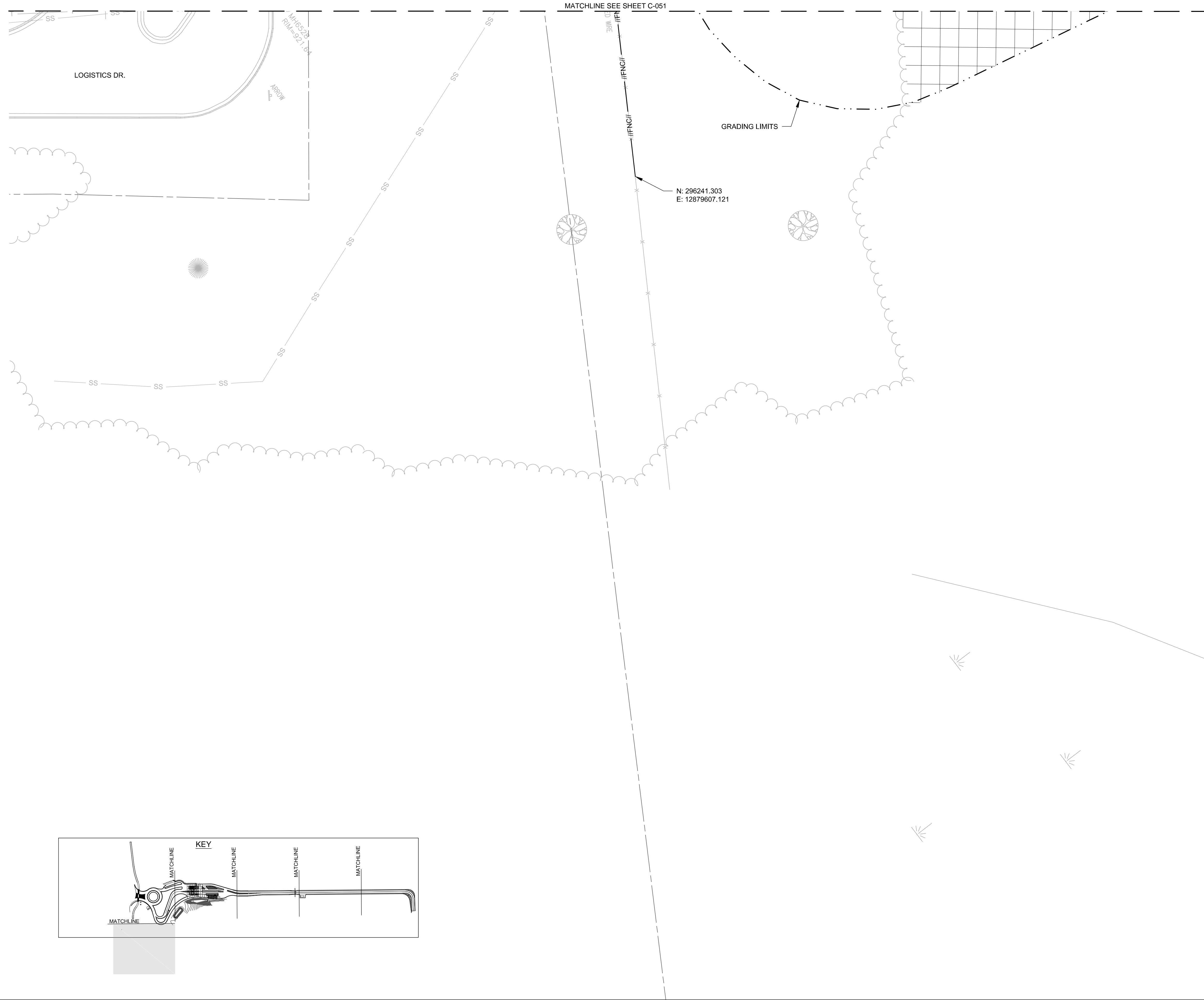
SHEET CONTENTS
DEMOLITION PLANS

SHEET NO.

C-051

LEGEND

-  CLEARING
-  PAVEMENT REMOVAL
-  HMA SURFACE REMOVAL
-  //FNC// FENCE REMOVAL
-  >>> CURB AND GUTTER REMOVAL



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BATTLE CREEK, MICHIGAN

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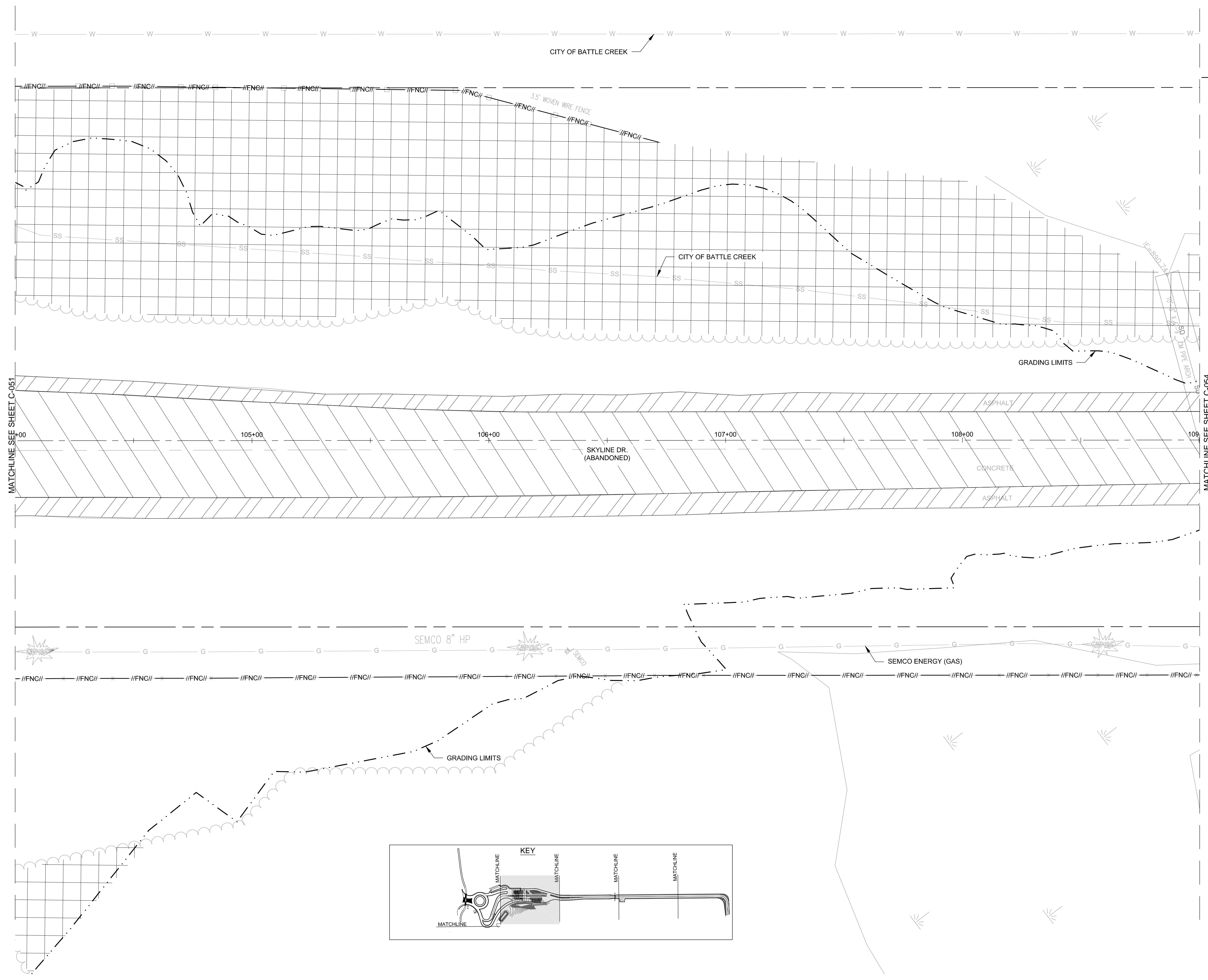
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SHEET CONTENTS
DEMOLITION PLANS

SHEET NO.

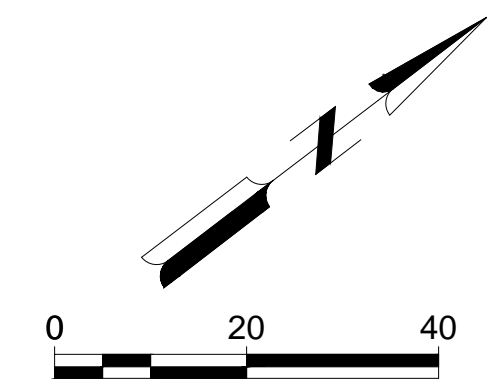
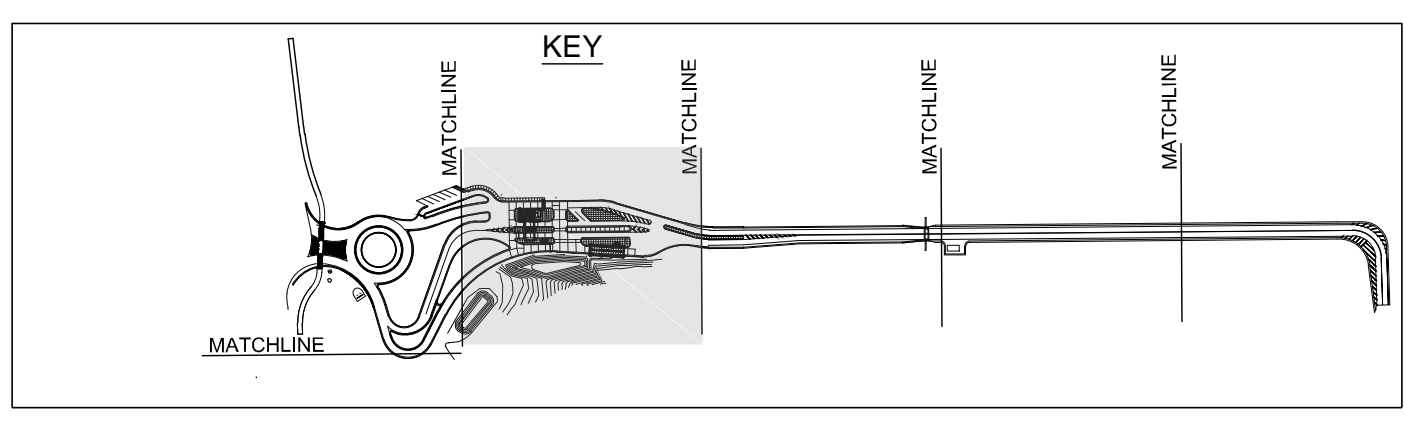
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LEGEND

	CLEARING
	PAVEMENT REMOVAL
	HMA SURFACE REMOVAL
	FENCE REMOVAL
	CURB AND GUTTER REMOVAL



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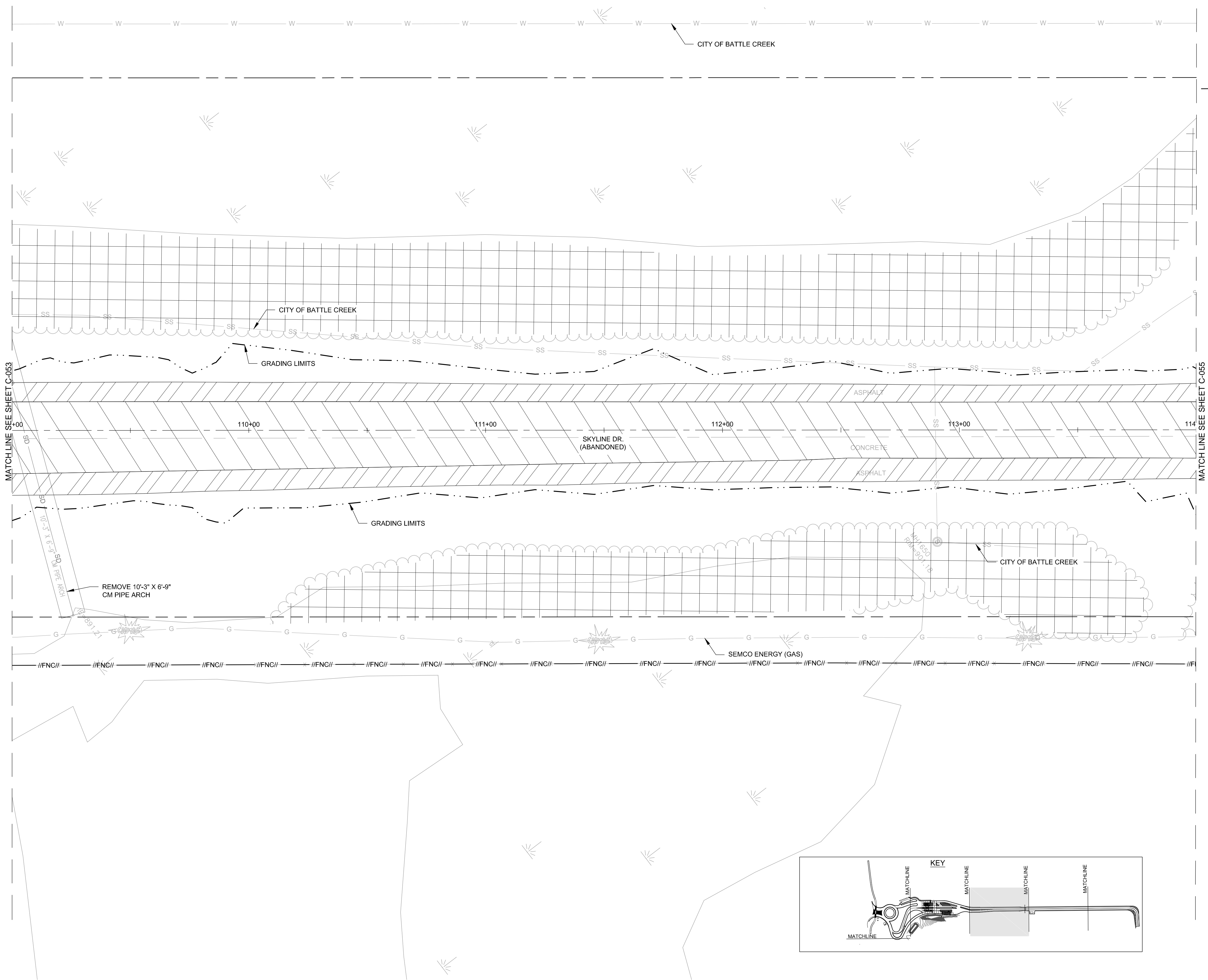
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SHEET CONTENTS
DEMOLITION PLANS

SHEET NO.

C-053

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LEGEND

	CLEARING
	PAVEMENT REMOVAL
	HMA SURFACE REMOVAL
	FENCE REMOVAL
	CURB AND GUTTER REMOVAL

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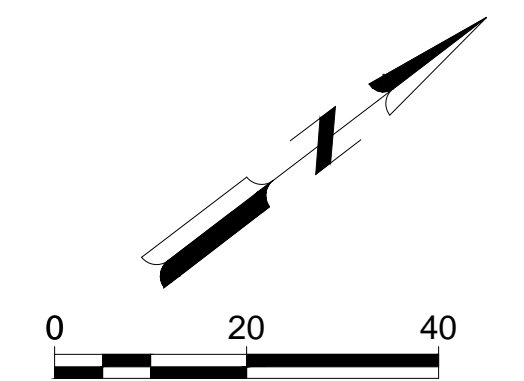
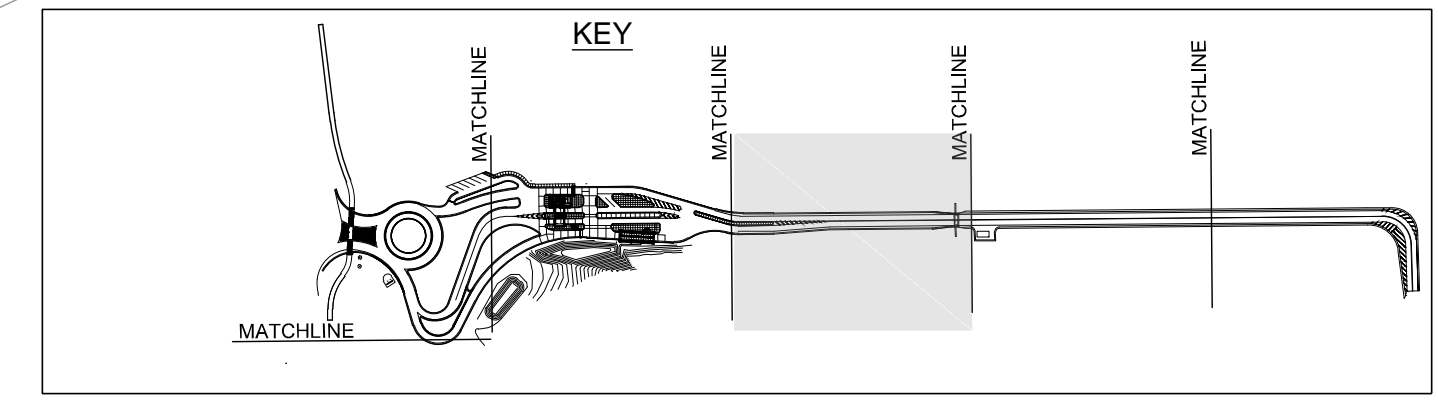
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SHEET CONTENTS
DEMOLITION PLANS

SHEET NO.

C-054





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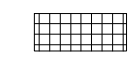
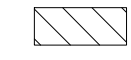

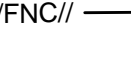
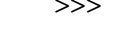
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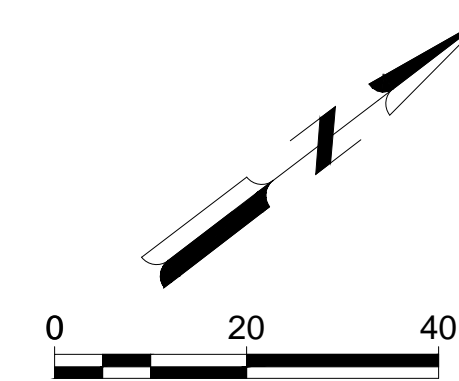
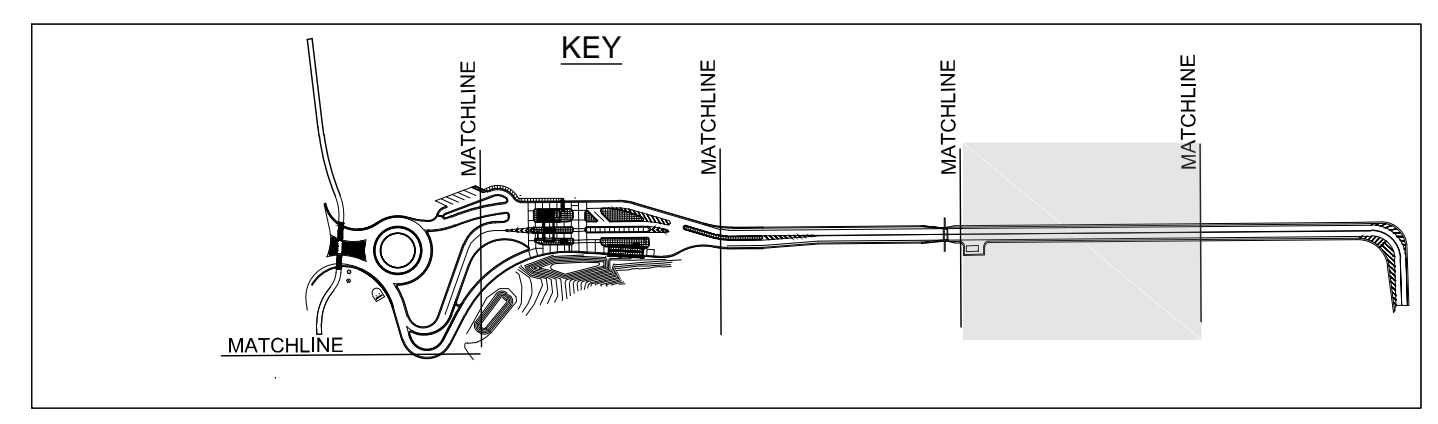
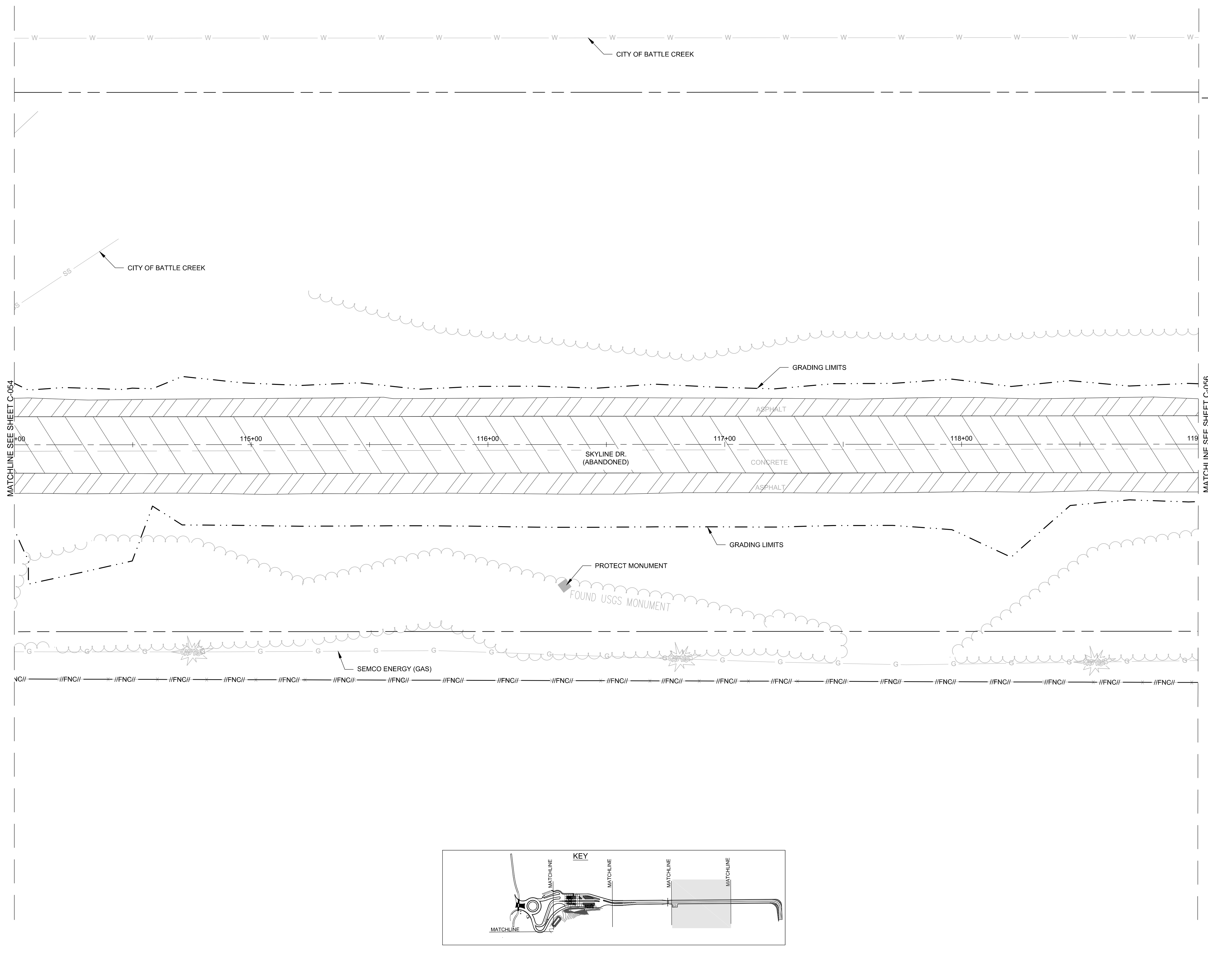
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SHEET CONTENTS
DEMOLITION PLANS

SHEET NO.
C-055

LEGEND

-  CLEARING
-  PAVEMENT REMOVAL
-  HMA SURFACE REMOVAL
-  FENCE REMOVAL
-  CURB AND GUTTER REMOVAL



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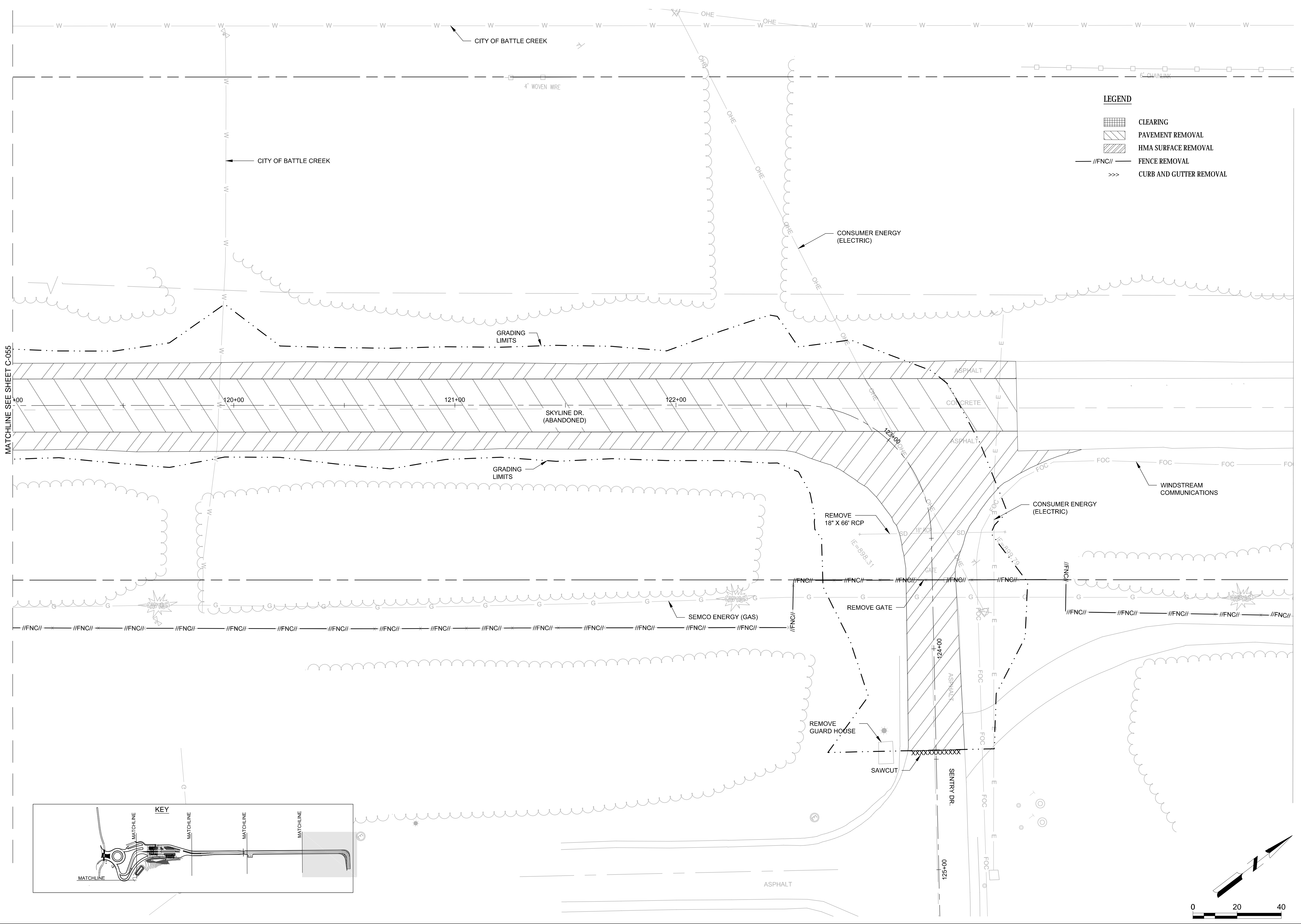
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DEMOLITION PLANS

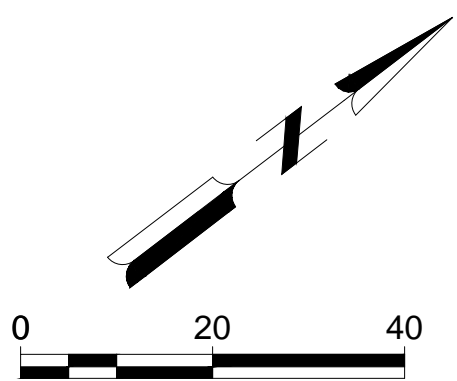
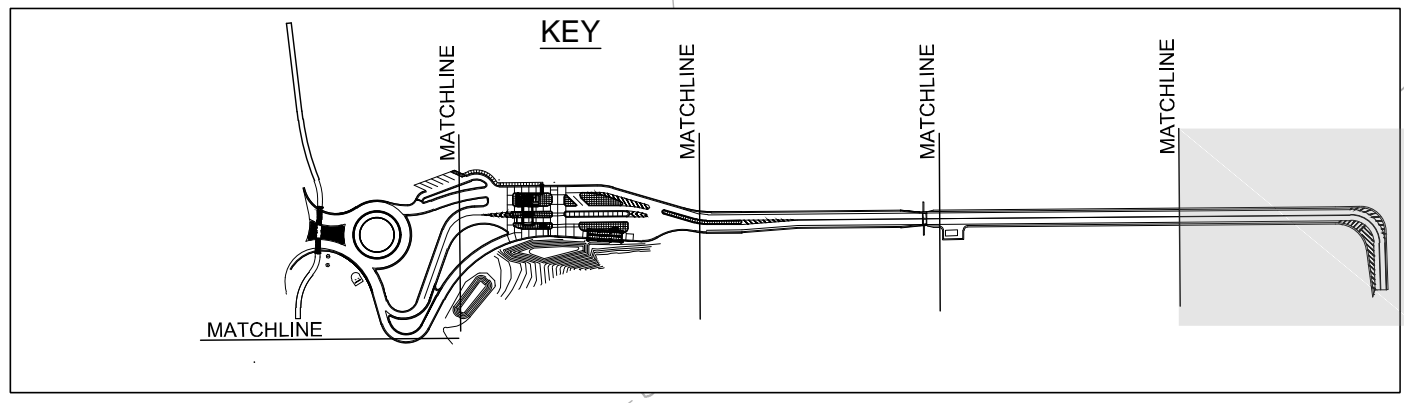
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C-056



LEGEND

[Hatched Box]	CLEARING
[Diagonal Lines Box]	PAVEMENT REMOVAL
[Cross-hatched Box]	HMA SURFACE REMOVAL
[Line with Dash]	FENCE REMOVAL
[Line with Arrow]	CURB AND GUTTER REMOVAL



X:\3141900\113782\01\TECH\CAD\BIC-065 DEMOLITION PLANS.DWG
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MICHIGAN AIR NATIONAL GUARD CONSTRUCT MAIN BASE ENTRANCE

BATTLE CREEK ANGB
BATTLE CREEK, MICHIGAN

ISSUED
02/17/21 B3 FINAL

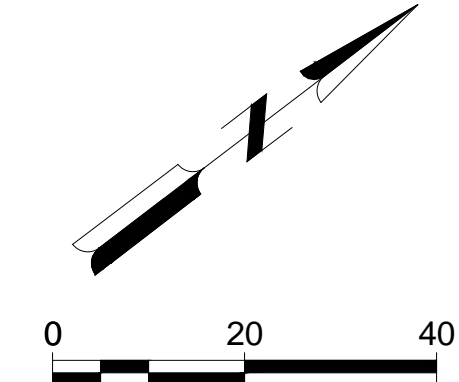
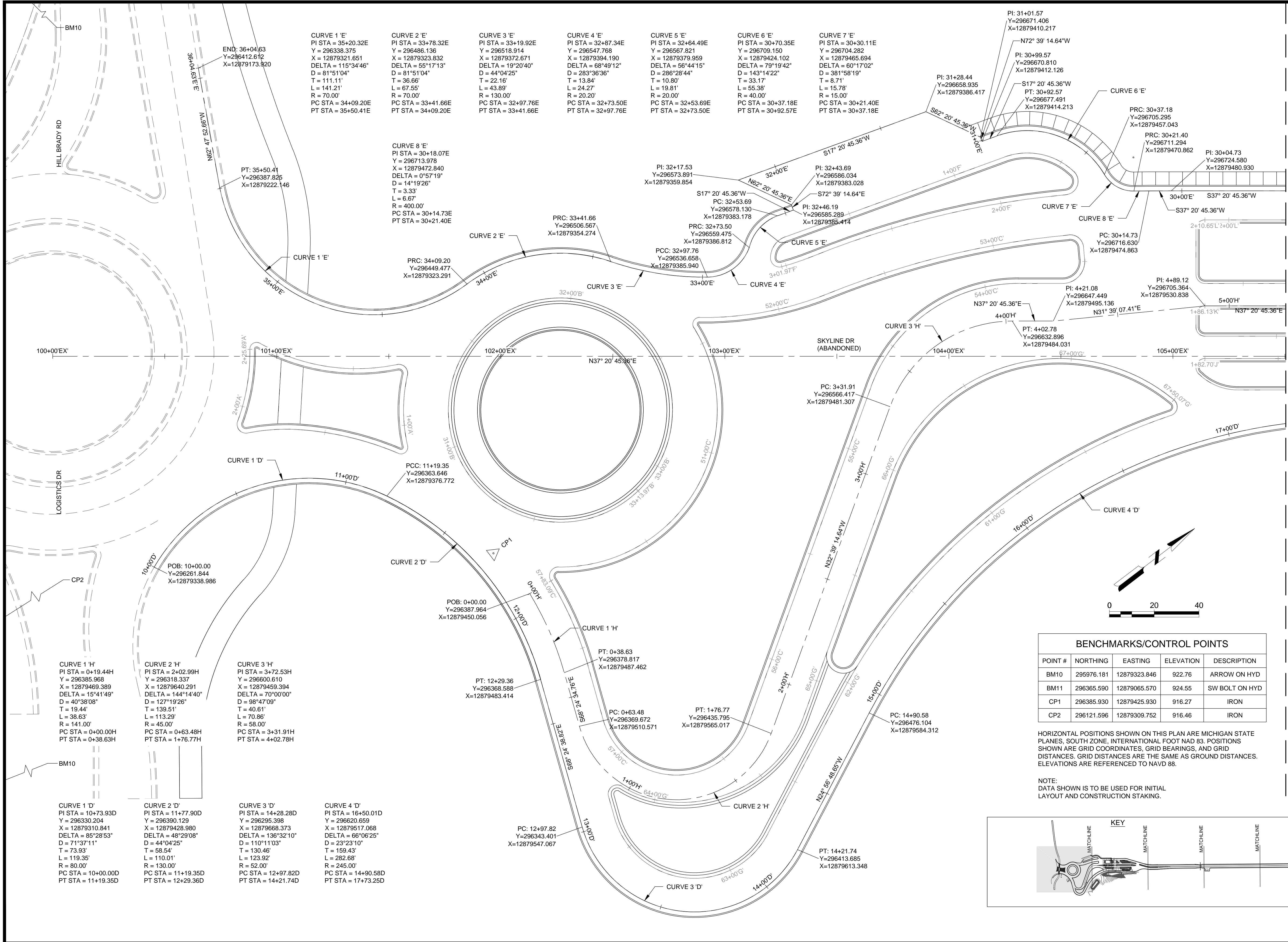
ANG Project No: MBMV099170
M&H No: 3141900-113782.01
DATE: FEBRUARY 17, 2021
DESIGNED BY: JAK
DRAWN BY: DAY
CHECKED BY: SAH
DO NOT SCALE DRAWINGS

SHEET CONTENTS
ALIGNMENT DETAILS
& SURVEY CONTROL

SHEET NO.

C-071

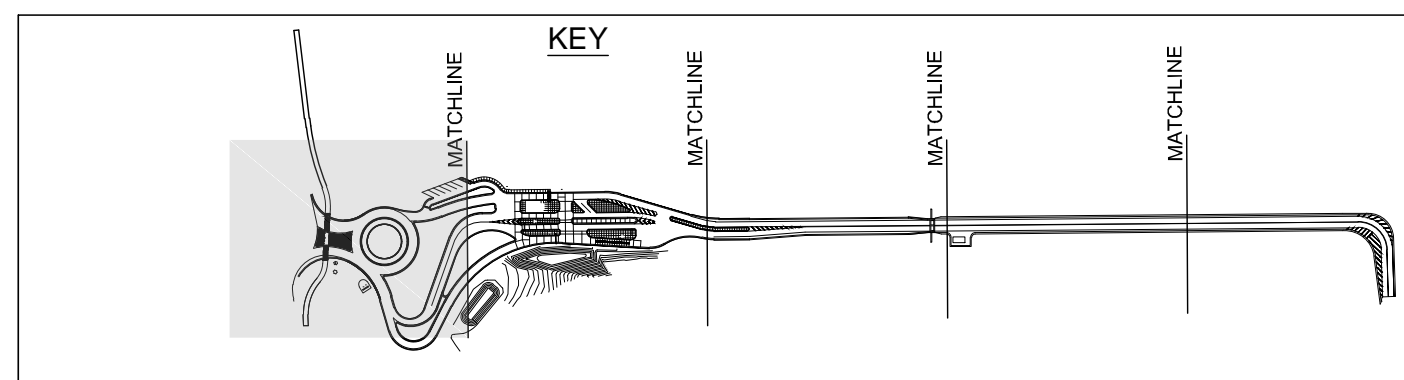
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BENCHMARKS/CONTROL POINTS				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM10	295976.181	12879323.846	922.76	ARROW ON HYD
BM11	296365.590	12879065.570	924.55	SW BOLT ON HYD
CP1	296385.930	12879425.930	916.27	IRON
CP2	296121.596	12879309.752	916.46	IRON

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE MICHIGAN STATE PLANES, SOUTH ZONE, INTERNATIONAL FOOT NAD 83. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD 88.

NOTE:
DATA SHOWN IS TO BE USED FOR INITIAL LAYOUT AND CONSTRUCTION STAKING.



CURVE 1 'E'
PI STA = 35+20.32E
Y = 296338.375
X = 12879321.651
DELTA = 115°34'46"
D = 81°51'04"
T = 111.11'
L = 141.21'
R = 70.00'
PC STA = 34+09.20E
PT STA = 35+50.41E

CURVE 2 'E'
PI STA = 33+78.32E
Y = 296486.136
X = 12879323.832
DELTA = 55°17'13"
D = 81°51'04"
T = 36.66'
L = 67.55'
R = 70.00'
PC STA = 33+41.66E
PT STA = 34+09.20E

CURVE 3 'E'
PI STA = 33+19.92E
Y = 296518.914
X = 12879372.671
DELTA = 19°20'40"
D = 44°04'25"
T = 22.16'
L = 43.89'
R = 130.00'
PC STA = 32+97.76E
PT STA = 33+41.66E

CURVE 4 'E'
PI STA = 32+87.34E
Y = 296547.768
X = 12879394.190
DELTA = 68°49'12"
D = 283°36'36"
T = 13.84'
L = 24.27'
R = 20.20'
PC STA = 32+73.50E
PT STA = 32+97.76E

CURVE 5 'E'
PI STA = 32+64.49E
Y = 296567.821
X = 12879379.959
DELTA = 56°44'15"
D = 286°28'44"
T = 10.80'
L = 19.81'
R = 20.00'
PC STA = 32+53.69E
PT STA = 32+73.50E

CURVE 6 'E'
PI STA = 30+70.35E
Y = 296709.150
X = 12879424.102
DELTA = 79°19'42"
D = 143°14'22"
T = 33.17'
L = 55.38'
R = 40.00'
PC STA = 30+37.18E
PT STA = 30+92.57E

CURVE 7 'E'
PI STA = 30+30.11E
Y = 296704.282
X = 12879465.694
DELTA = 60°17'02"
D = 381°58'19"
T = 8.71'
L = 15.78'
R = 15.00'
PC STA = 30+21.40E
PT STA = 30+37.18E

CURVE 8 'E'
PI STA = 30+18.07E
Y = 296713.978
X = 12879472.840
DELTA = 0°57'19"
D = 14°19'26"
T = 3.33'
L = 6.67'
R = 400.00'
PC STA = 30+14.73E
PT STA = 30+21.40E

CURVE 1 'D'
PI STA = 10+73.93D
Y = 296330.204
X = 12879310.841
DELTA = 85°28'53"
D = 71°37'11"
T = 73.93'
L = 119.35'
R = 60.00'
PC STA = 10+00.00D
PT STA = 11+19.35D

CURVE 2 'D'
PI STA = 11+77.90D
Y = 296390.129
X = 12879428.980
DELTA = 48°29'08"
D = 44°04'25"
T = 58.54'
L = 110.01'
R = 130.00'
PC STA = 11+19.35D
PT STA = 12+29.36D

CURVE 3 'D'
PI STA = 14+28.28D
Y = 296620.659
X = 12879668.373
DELTA = 136°32'10"
D = 110°11'03"
T = 159.43'
L = 123.92'
R = 52.00'
PC STA = 12+97.82D
PT STA = 14+21.74D

CURVE 4 'D'
PI STA = 16+50.01D
Y = 296620.659
X = 12879517.068
DELTA = 66°06'25"
D = 23°23'10"
T = 282.68'
L = 245.00'
R = 245.00'
PC STA = 14+90.58D
PT STA = 17+73.25D

CURVE 1 'H'
PI STA = 0+19.44H
Y = 296385.968
X = 12879469.389
DELTA = 15°41'49"
D = 40°38'08"
T = 19.44'
L = 38.83'
R = 141.00'
PC STA = 0+00.00H
PT STA = 0+38.63H

CURVE 2 'H'
PI STA = 2+02.99H
Y = 296318.337
X = 12879640.291
DELTA = 144°14'40"
D = 127°19'26"
T = 139.51'
L = 113.29'
R = 45.00'
PC STA = 0+63.48H
PT STA = 1+76.77H

CURVE 3 'H'
PI STA = 3+72.53H
Y = 296600.610
X = 12879459.394
DELTA = 70°00'00"
D = 98°47'09"
T = 40.61'
L = 70.86'
R = 58.00'
PC STA = 3+31.91H
PT STA = 4+02.78H

CURVE 1 'H'
PI STA = 0+38.63H
Y = 296378.817
X = 12879487.462

CURVE 2 'H'
PI STA = 1+76.77H
Y = 296435.795
X = 12879565.017

CURVE 3 'H'
PI STA = 3+31.91H
Y = 296566.417
X = 12879481.307

CURVE 1 'H'
PI STA = 0+38.63H
Y = 296378.817
X = 12879487.462

CURVE 2 'H'
PI STA = 1+76.77H
Y = 296435.795
X = 12879565.017

CURVE 3 'H'
PI STA = 3+31.91H
Y = 296566.417
X = 12879481.307

CURVE 1 'H'
PI STA = 0+38.63H
Y = 296378.817
X = 12879487.462

CURVE 2 'H'
PI STA = 1+76.77H
Y = 296435.795
X = 12879565.017

CURVE 3 'H'
PI STA = 3+31.91H
Y = 296566.417
X = 12879481.307

CURVE 1 'H'
PI STA = 0+38.63H
Y = 296378.817
X = 12879487.462

CURVE 2 'H'
PI STA = 1+76.77H
Y = 296435.795
X = 12879565.017

CURVE 3 'H'
PI STA = 3+31.91H
Y = 296566.417
X = 12879481.307

CURVE 1 'H'
PI STA = 0+38.63H
Y = 296378.817
X = 12879487.462

CURVE 2 'H'
PI STA = 1+76.77H
Y = 296435.795
X = 12879565.017

CURVE 3 'H'
PI STA = 3+31.91H
Y = 296566.417
X = 12879481.307



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BATTLE CREEK ANGB
BATTLE CREEK, MICHIGAN

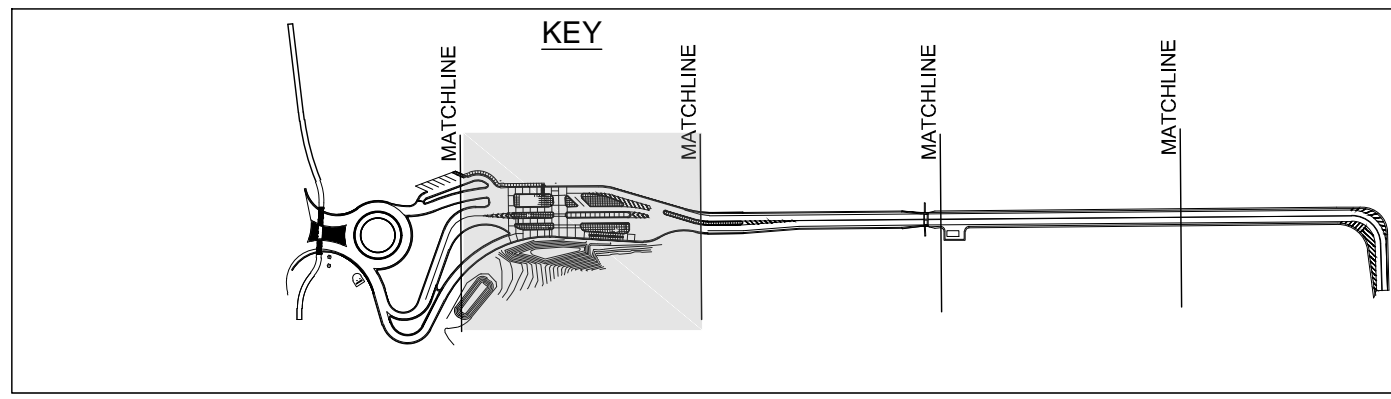
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02/17/21 B3 FINAL

ANG Project No: MBMV099170
M&H No: 3141900-113782.01
DATE: FEBRUARY 17, 2021
DESIGNED BY: JAK
DRAWN BY: DAY
CHECKED BY: SAH
DO NOT SCALE DRAWINGS

SHEET CONTENTS
ALIGNMENT DETAILS
& SURVEY CONTROL

SHEET NO.

C-072



CURVE 9 'E'
PI STA = 28+00.86E
Y = 296886.843
X = 12879604.747
DELTA = 16°49'55"
D = 50°42'15"
T = 16.72'
L = 33.20'
R = 113.00'
PC STA = 27+84.15E
PT STA = 28+17.34E

CURVE 10 'E'
PI STA = 26+01.57E
Y = 297003.735
X = 12879766.690
DELTA = 16°49'55"
D = 28°38'52"
T = 29.59'
L = 58.75'
R = 200.00'
PC STA = 25+71.98E
PT STA = 26+30.73E

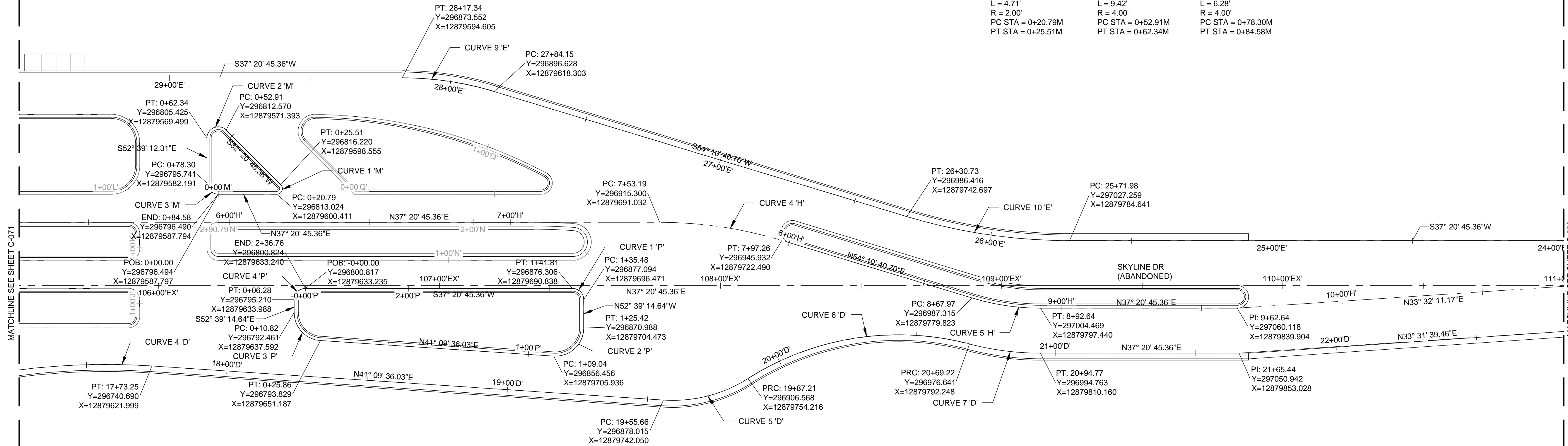
CURVE 4 'H'
PI STA = 7+75.38H
Y = 296932.943
X = 12879704.495
DELTA = 16°49'55"
D = 38°11'50"
T = 22.19'
L = 44.07'
R = 150.00'
PC STA = 7+53.19H
PT STA = 7+97.26H

CURVE 5 'H'
PI STA = 8+80.39H
Y = 296994.589
X = 12879789.901
DELTA = 16°49'55"
D = 68°12'33"
T = 12.43'
L = 24.68'
R = 84.00'
PC STA = 8+67.97H
PT STA = 8+92.64H

CURVE 1 'M'
PI STA = 0+25.62M
Y = 296816.863
X = 12879603.340
DELTA = 135°00'00"
D = 2864°47'20"
T = 4.83'
L = 4.71'
R = 2.00'
PC STA = 0+20.79M
PT STA = 0+25.51M

CURVE 2 'M'
PI STA = 0+62.57M
Y = 296811.283
X = 12879561.822
DELTA = 134°59'58"
D = 1432°23'40"
T = 9.66'
L = 9.42'
R = 4.00'
PC STA = 0+52.91M
PT STA = 0+62.34M

CURVE 3 'M'
PI STA = 0+82.30M
Y = 296793.317
X = 12879585.367
DELTA = 89°55'52"
D = 1432°23'40"
T = 4.00'
L = 6.28'
R = 4.00'
PC STA = 0+78.30M
PT STA = 0+84.58M



CURVE 1 'P'
PI STA = 1+39.53P
Y = 296879.547
X = 12879693.256
DELTA = 90°36'48"
D = 1432°15'42"
T = 4.04'
L = 6.33'
R = 4.00'
PC STA = 1+35.48P
PT STA = 1+41.81P

CURVE 2 'P'
PI STA = 1+19.73P
Y = 296864.504
X = 12879712.971
DELTA = 93°48'51"
D = 572°57'28"
T = 10.69'
L = 16.37'
R = 10.00'
PC STA = 1+09.04P
PT STA = 1+25.42P

CURVE 3 'P'
PI STA = 0+20.17P
Y = 296786.786
X = 12879645.029
DELTA = 86°11'07"
D = 572°57'28"
T = 9.36'
L = 15.04'
R = 10.00'
PC STA = 0+10.82P
PT STA = 0+25.86P

CURVE 4 'P'
PI STA = 0+04.00P
Y = 296797.637
X = 12879630.808
DELTA = 90°00'00"
D = 1432°23'40"
T = 4.00'
L = 6.28'
R = 4.00'
PC STA = -0+00.00P
PT STA = 0+06.28P

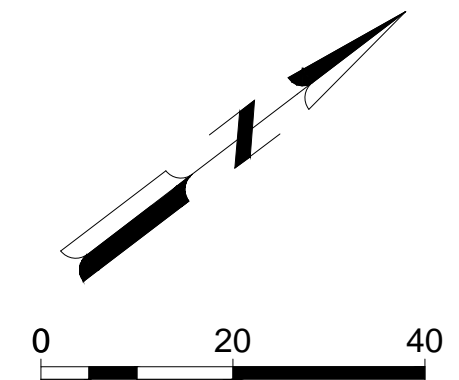
CURVE 4 'D'
PI STA = 16+50.01D
Y = 296820.659
X = 12879517.068
DELTA = 65°06'25"
D = 23°23'10"
T = 159.43'
L = 282.68'
R = 245.00'
PC STA = 14+90.58D
PT STA = 17+73.25D

CURVE 5 'D'
PI STA = 19+71.98D
Y = 296890.305
X = 12879752.794
DELTA = 36°09'45"
D = 114°35'30"
T = 16.32'
L = 31.56'
R = 50.00'
PC STA = 19+55.66D
PT STA = 19+87.21D

CURVE 6 'D'
PI STA = 20+30.68D
Y = 296949.871
X = 12879758.002
DELTA = 46°59'14"
D = 57°17'45"
T = 43.47'
L = 82.01'
R = 100.00'
PC STA = 19+87.21D
PT STA = 20+69.22D

CURVE 7 'D'
PI STA = 20+82.07D
Y = 296984.552
X = 12879802.368
DELTA = 14°38'19"
D = 57°17'45"
T = 12.84'
L = 25.55'
R = 100.00'
PC STA = 20+69.22D
PT STA = 20+94.77D

NOTE:
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MICHIGAN AIR NATIONAL GUARD CONSTRUCT MAIN BASE ENTRANCE

BATTLE CREEK ANGB
BATTLE CREEK, MICHIGAN

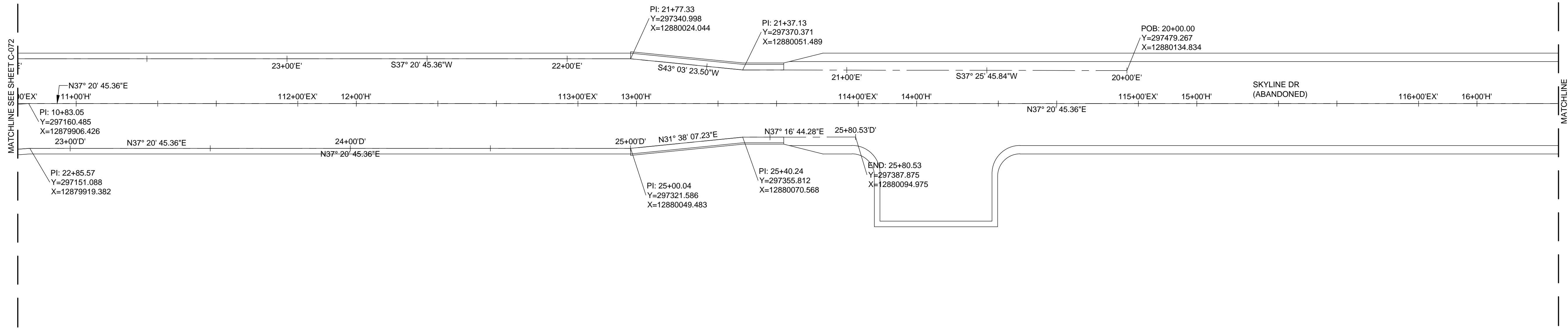
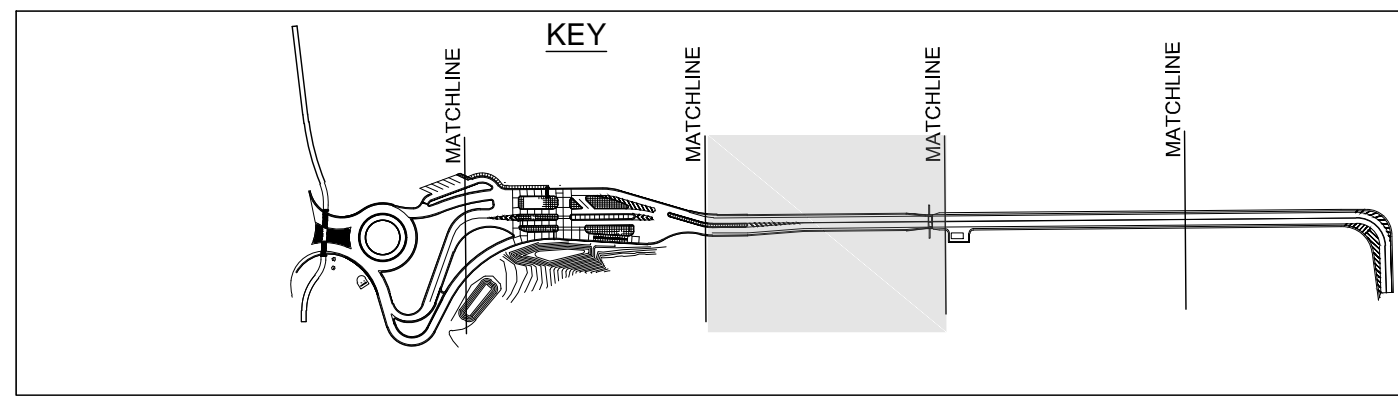
ISSUED
02/17/21 B3 FINAL

ANG Project No: MBMV099170
MMH No: 3141900-113782.01
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DESIGNED BY: JAK
DRAWN BY: DAY
CHECKED BY: SAH
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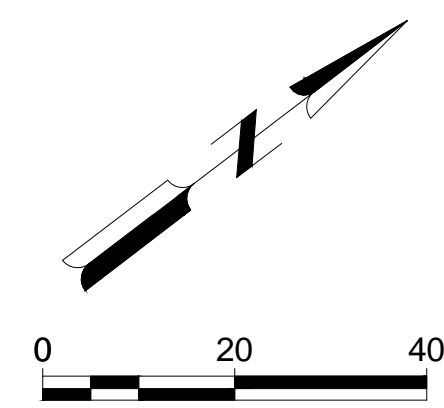
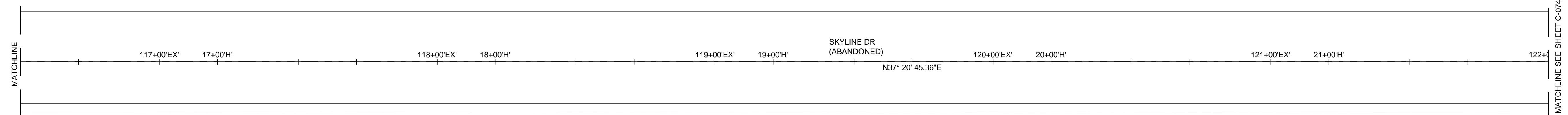
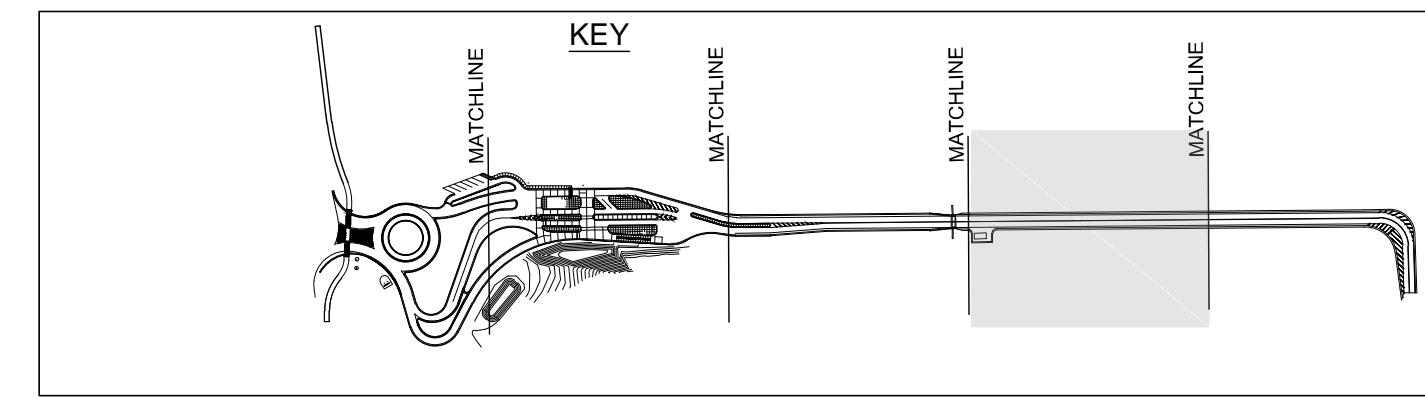
SHEET CONTENTS
ALIGNMENT DETAILS
& SURVEY CONTROL

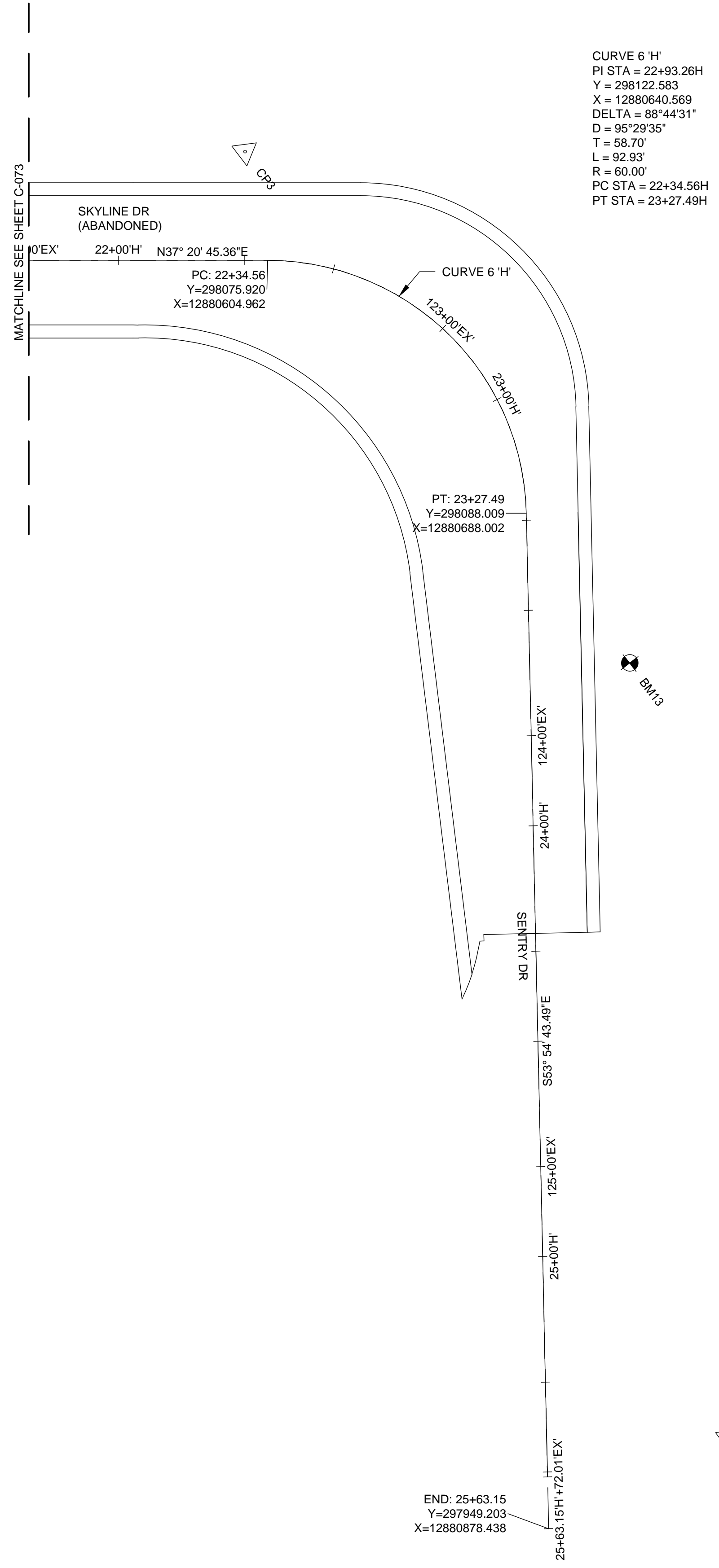
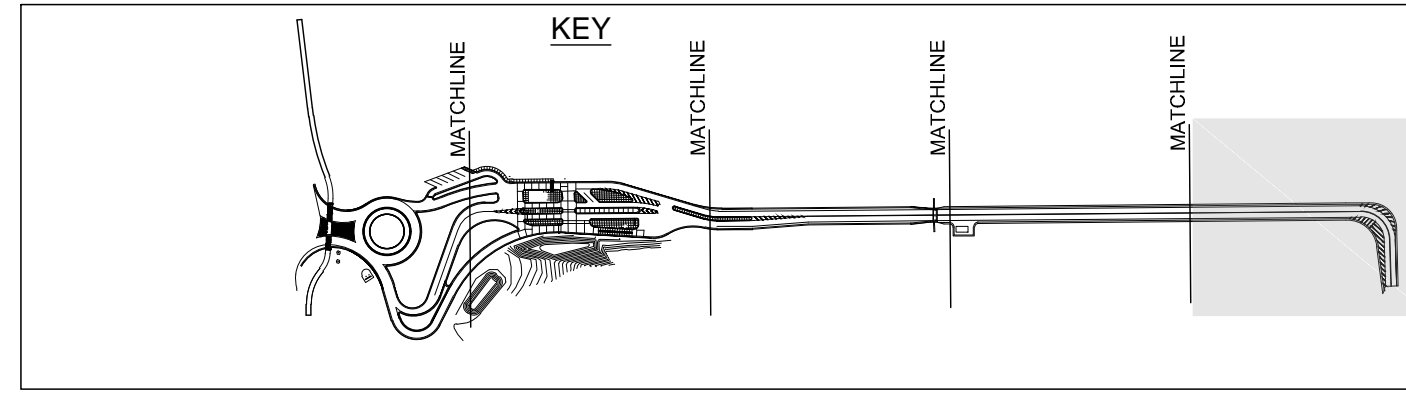
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C-073



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BENCHMARKS/CONTROL POINTS				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM13	298085.983	12880730.167	902.43	SPIKE SW FACE PP
CP3	298087.062	12880581.710	903.00	IRON
CP4	297995.158	12880887.099	901.26	IRON

NOTE:
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Mead & Hunt

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2440 Deming Way
Middleton, WI 53562
phone: 608-273-6380
meadhunt.com



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**MICHIGAN AIR NATIONAL GUARD
CONSTRUCT MAIN BASE ENTRANCE**

BATTLE CREEK ANGB
BATTLE CREEK, MICHIGAN

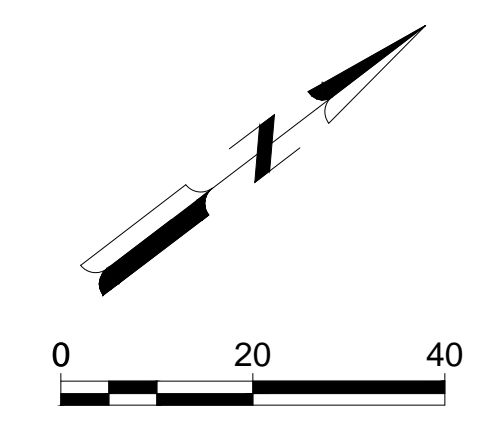
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C-074





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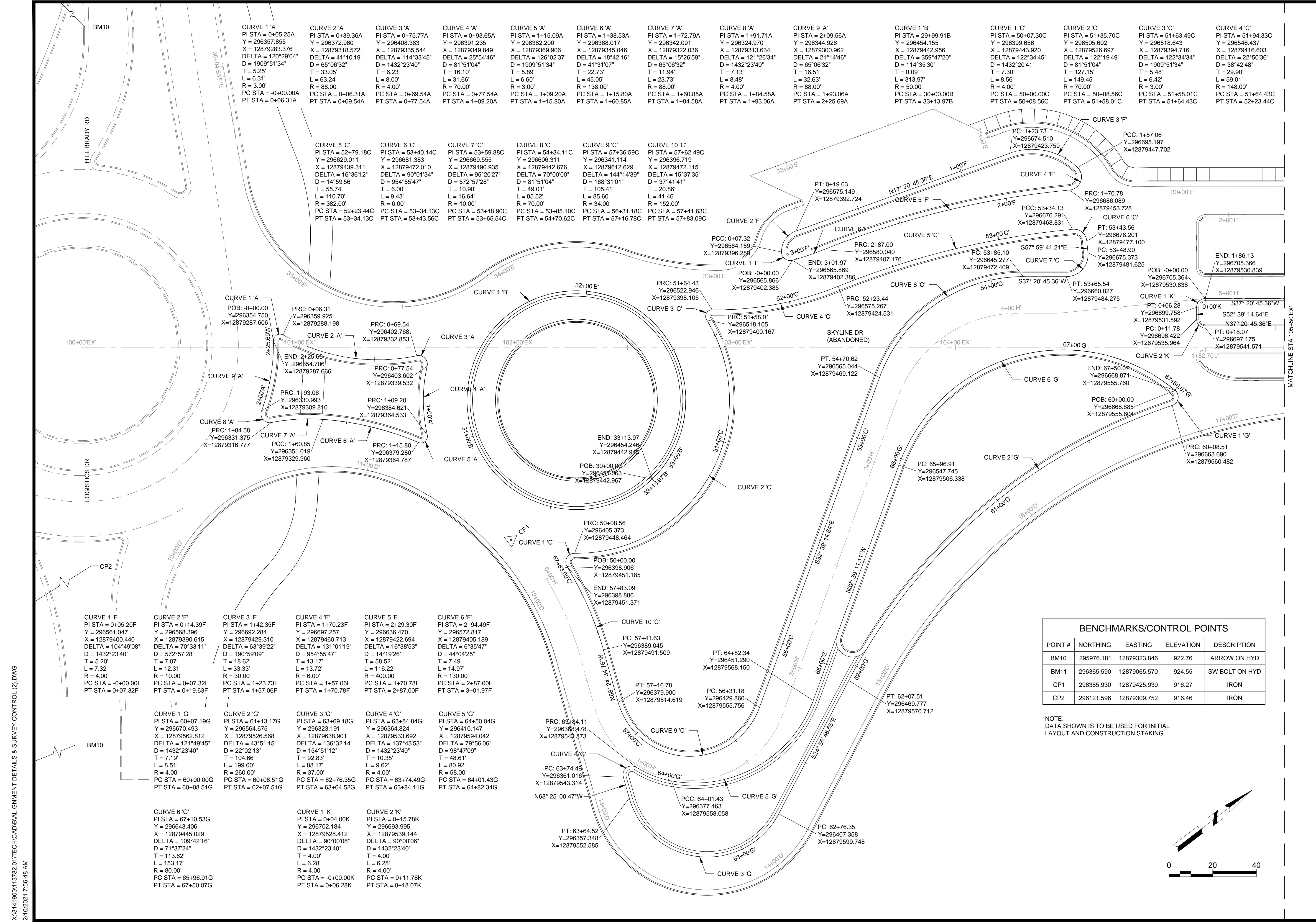
MICHIGAN AIR NATIONAL GUARD CONSTRUCT MAIN BASE ENTRANCE BATTLE CREEK ANGB BATTLE CREEK, MICHIGAN

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SHEET NO.



BENCHMARKS/CONTROL POINTS				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM10	295976.181	12879323.846	922.76	ARROW ON HYD
BM11	296365.590	12879065.570	924.55	SW BOLT ON HYD
CP1	296385.930	12879425.930	916.27	IRON
CP2	296121.596	12879309.752	916.46	IRON

NOTE:
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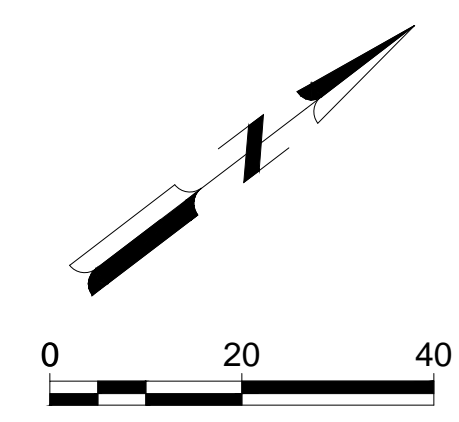
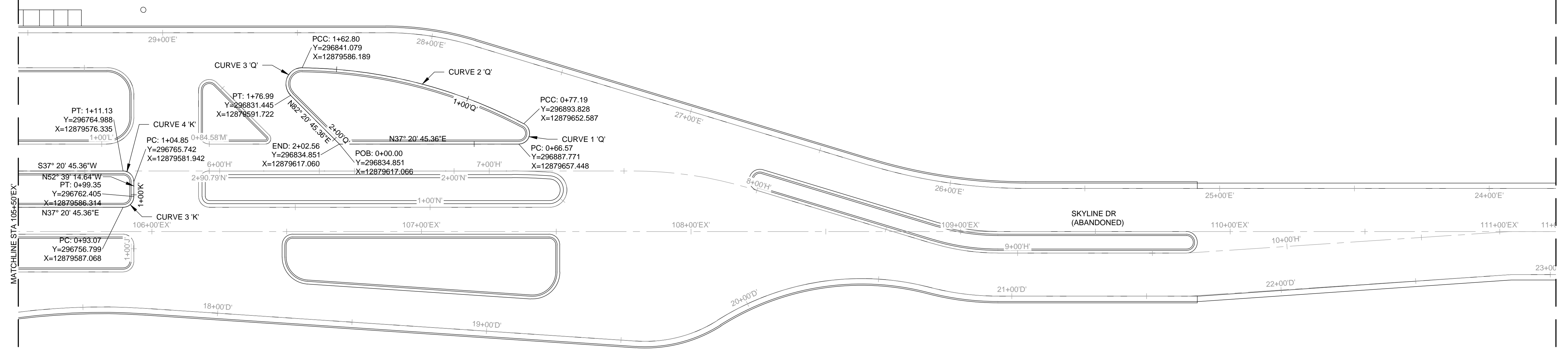
SHEET CONTENTS
ALIGNMENT DETAILS
& SURVEY CONTROL

SHEET NO.

C-076

CURVE 3 'K'	CURVE 4 'K'	CURVE 1 'Q'	CURVE 2 'Q'	CURVE 3 'Q'
PI STA = 0+97.07K	PI STA = 1+08.85K	PI STA = 0+82.72Q	PI STA = 1+20.82Q	PI STA = 1+77.49Q
Y = 296759.979	Y = 296768.168	Y = 296900.614	Y = 296875.500	Y = 296829.489
X = 12879589.494	X = 12879578.762	X = 12879667.248	X = 12879612.996	X = 12879577.163
DELTA = 90°00'06"	DELTA = 90°00'08"	DELTA = 152°11'11"	DELTA = 27°14'56"	DELTA = 135°33'53"
D = 1432°23'40"	D = 1432°23'40"	D = 1432°23'40"	D = 31°49'52"	D = 954°55'47"
T = 4.00'	T = 4.00'	T = 16.16'	T = 43.63'	T = 14.69'
L = 6.28'	L = 6.28'	L = 10.62'	L = 85.61'	L = 14.20'
R = 4.00'	R = 4.00'	R = 4.00'	R = 180.00'	R = 6.00'
PC STA = 0+93.07K	PC STA = 1+04.85K	PC STA = 0+66.57Q	PC STA = 0+77.19Q	PC STA = 1+62.80Q
PT STA = 0+99.35K	PT STA = 1+11.13K	PT STA = 0+77.19Q	PT STA = 1+62.80Q	PT STA = 1+76.99Q

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MICHIGAN AIR NATIONAL GUARD CONSTRUCT MAIN BASE ENTRANCE

BATTLE CREEK ANGB
BATTLE CREEK, MICHIGAN

ISSUED
02/17/21 B3 FINAL

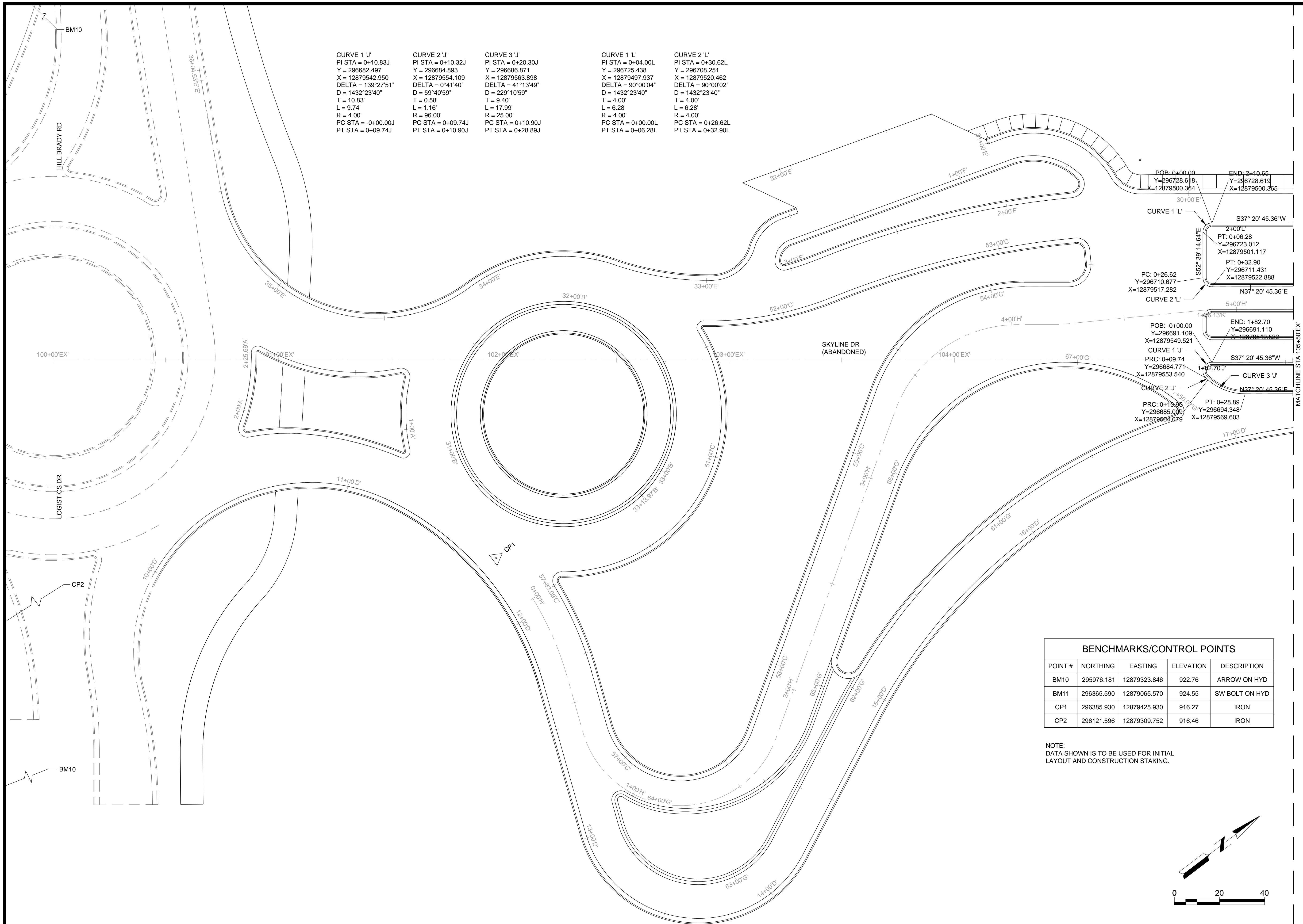
ANG Project No: MBMV099170
M&H NO.: 3141900-113782.01
DATE: FEBRUARY 17, 2021
DESIGNED BY: JAK
DRAWN BY: DAY
CHECKED BY: SAH
DO NOT SCALE DRAWINGS

SHEET CONTENTS
ALIGNMENT DETAILS
& SURVEY CONTROL

SHEET NO.

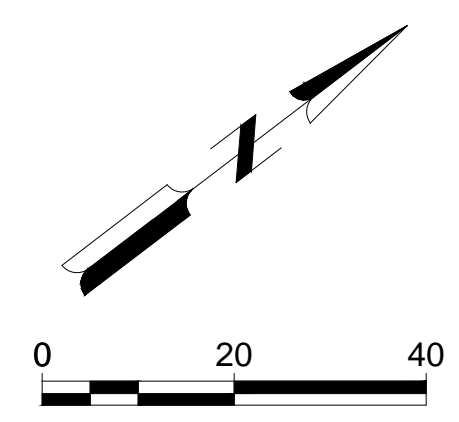
C-077

CURVE 1 'J'	CURVE 2 'J'	CURVE 3 'J'	CURVE 1 'L'	CURVE 2 'L'
PI STA = 0+10.83J	PI STA = 0+10.32J	PI STA = 0+20.30J	PI STA = 0+04.00L	PI STA = 0+30.62L
Y = 296682.497	Y = 296684.893	Y = 296686.871	Y = 296725.438	Y = 296708.251
X = 12879542.950	X = 12879554.109	X = 12879563.898	X = 12879497.937	X = 12879520.462
DELTA = 139°27'51"	DELTA = 0°41'40"	DELTA = 41°13'49"	DELTA = 90°00'04"	DELTA = 90°00'02"
D = 1432°23'40"	D = 59°40'59"	D = 229°10'59"	D = 1432°23'40"	D = 1432°23'40"
T = 10.83'	T = 0.58'	T = 9.40'	T = 4.00'	T = 4.00'
L = 9.74'	L = 1.16'	L = 17.99'	L = 6.28'	L = 6.28'
R = 4.00'	R = 96.00'	R = 25.00'	R = 4.00'	R = 4.00'
PC STA = -0+00.00J	PC STA = 0+09.74J	PC STA = 0+10.90J	PC STA = 0+00.00L	PC STA = 0+26.62L
PT STA = 0+09.74J	PT STA = 0+10.90J	PT STA = 0+28.89J	PT STA = 0+06.28L	PT STA = 0+32.90L



BENCHMARKS/CONTROL POINTS				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM10	295976.181	12879323.846	922.76	ARROW ON HYD
BM11	296365.590	12879065.570	924.55	SW BOLT ON HYD
CP1	296385.930	12879425.930	916.27	IRON
CP2	296121.596	12879309.752	916.46	IRON

NOTE:
DATA SHOWN IS TO BE USED FOR INITIAL
LAYOUT AND CONSTRUCTION STAKING.



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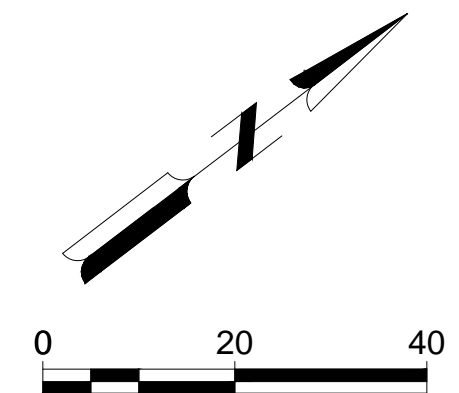
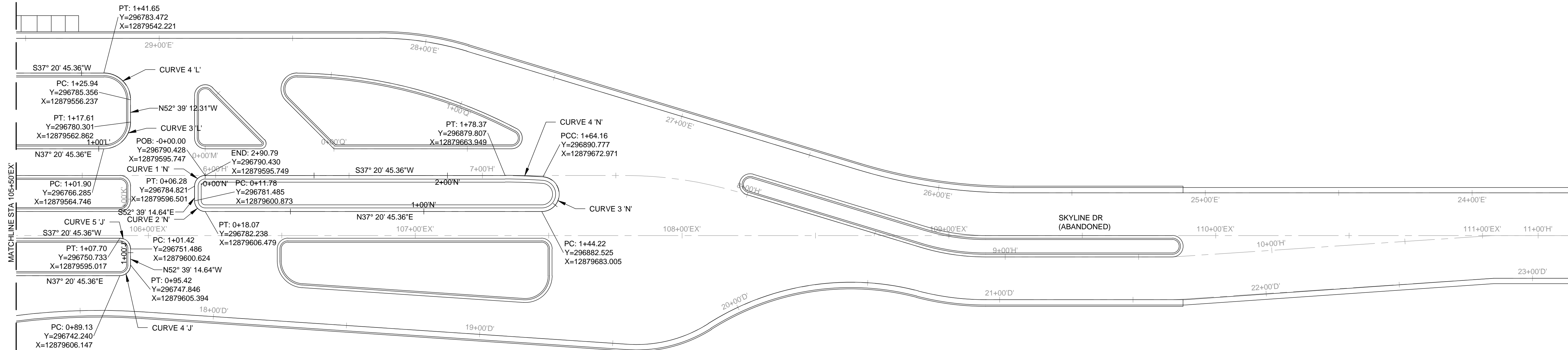
SHEET CONTENTS
ALIGNMENT DETAILS
& SURVEY CONTROL

SHEET NO.

C-078

CURVE 4 'J' PI STA = 0+89.13J Y = 296745.420 X = 12879608.574 DELTA = 90°00'06" D = 1432°23'40" T = 4.00' L = 6.28' R = 4.00' PC STA = 0+89.13J PT STA = 0+95.42J	CURVE 5 'J' PI STA = 1+05.42J Y = 296753.913 X = 12879597.444 DELTA = 90°00'08" D = 1432°23'40" T = 4.00' L = 6.28' R = 4.00' PC STA = 1+01.42J PT STA = 1+07.70J	CURVE 3 'L' PI STA = 1+11.90L Y = 296774.234 X = 12879570.812 DELTA = 89°59'58" D = 572°57'28" T = 10.00' L = 15.71' R = 10.00' PC STA = 1+01.90L PT STA = 1+17.61L	CURVE 4 'L' PI STA = 1+35.94L Y = 296791.422 X = 12879548.287 DELTA = 90°00'02" D = 572°57'28" T = 10.00' L = 15.71' R = 10.00' PC STA = 1+25.94L PT STA = 1+41.65L	CURVE 1 'N' PI STA = 0+04.00N Y = 296787.248 X = 12879593.321 DELTA = 90°00'00" D = 1432°23'40" T = 4.00' L = 6.28' R = 4.00' PC STA = -0+00.00N PT STA = 0+06.28N	CURVE 2 'N' PI STA = 0+15.78N Y = 296779.058 X = 12879604.053 DELTA = 90°00'00" D = 1432°23'40" T = 4.00' L = 6.28' R = 4.00' PC STA = 0+11.78N PT STA = 0+18.07N	CURVE 3 'N' PI STA = 3+22.58N Y = 297024.323 X = 12879791.206 DELTA = 175°49'33" D = 881°28'25" T = 178.37' L = 19.95' R = 6.50' PC STA = 1+44.22N PT STA = 1+64.16N	CURVE 4 'N' PI STA = 1+71.27N Y = 296885.456 X = 12879668.260 DELTA = 4°10'27" D = 29°22'57" T = 7.11' L = 14.21' R = 195.00' PC STA = 1+64.16N PT STA = 1+78.37N
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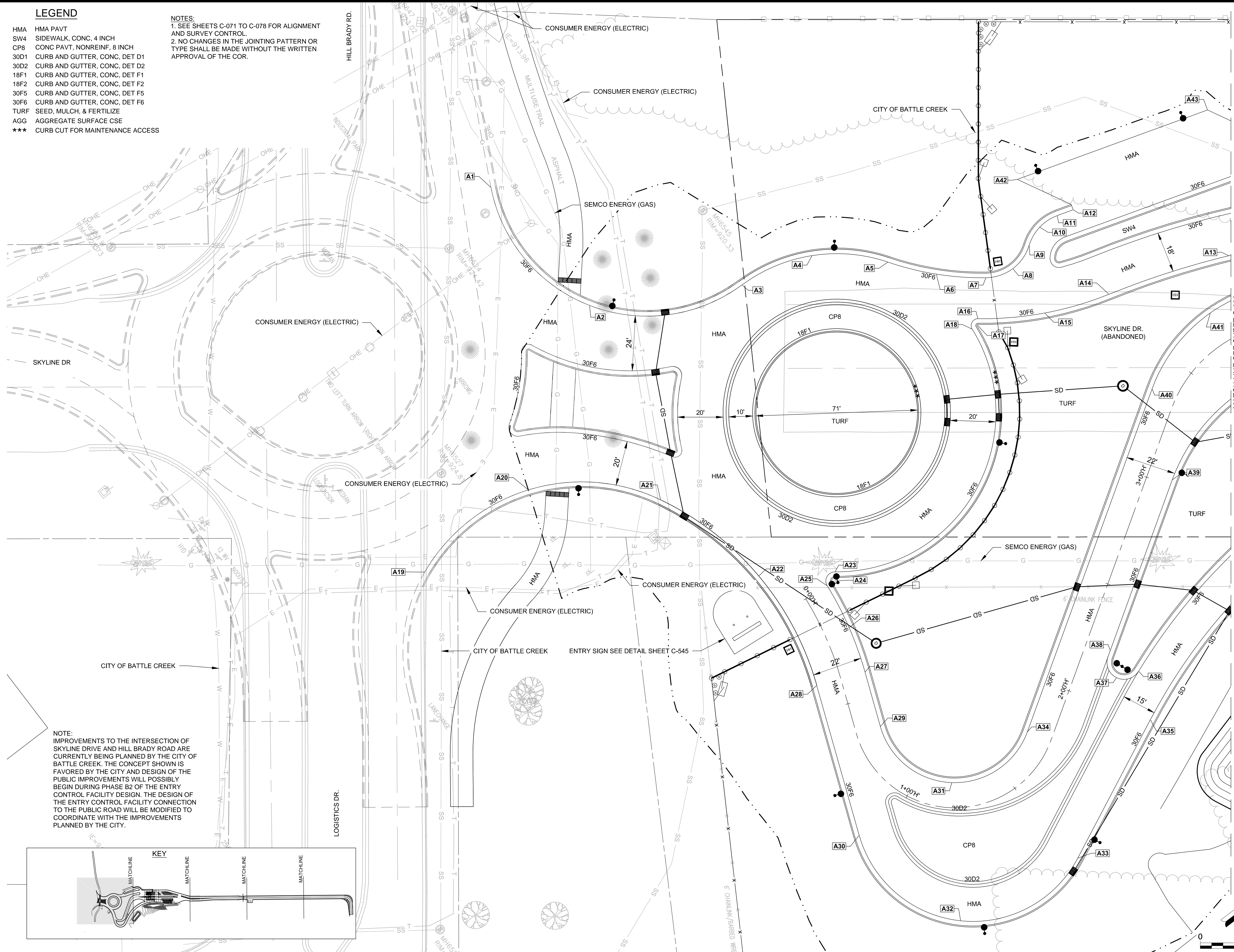
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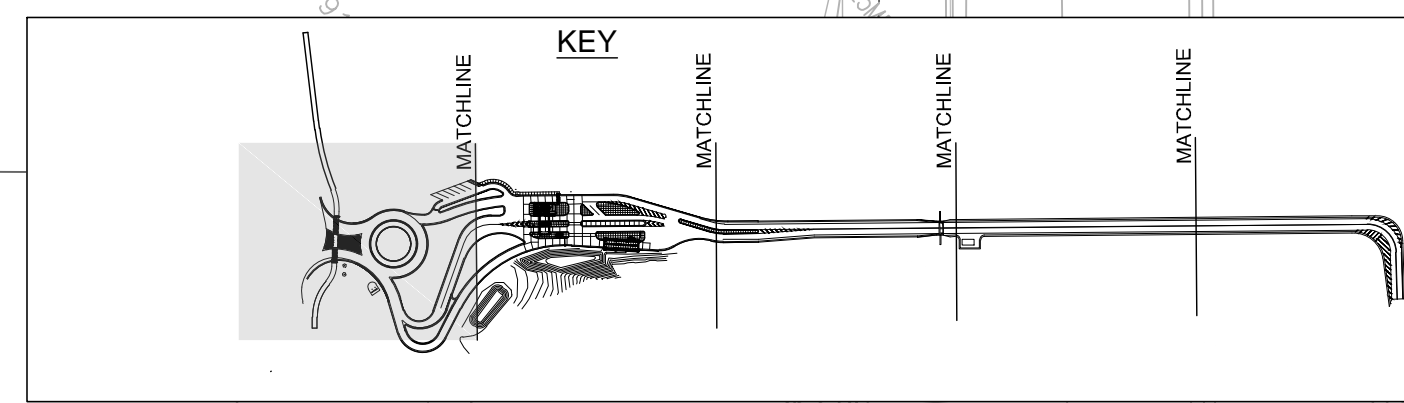
LEGEND

- HMA HMA PAVT
- SW4 SIDEWALK, CONC, 4 INCH
- CP8 CONC PAVT, NONREINF, 8 INCH
- 30D1 CURB AND GUTTER, CONC, DET D1
- 30D2 CURB AND GUTTER, CONC, DET D2
- 18F1 CURB AND GUTTER, CONC, DET F1
- 18F2 CURB AND GUTTER, CONC, DET F2
- 30F5 CURB AND GUTTER, CONC, DET F5
- 30F6 CURB AND GUTTER, CONC, DET F6
- TURF SEED, MULCH, & FERTILIZE
- AGG AGGREGATE SURFACE CSE
- *** CURB CUT FOR MAINTENANCE ACCESS

- NOTES:**
1. SEE SHEETS C-071 TO C-078 FOR ALIGNMENT AND SURVEY CONTROL.
 2. NO CHANGES IN THE JOINTING PATTERN OR TYPE SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE COR.



NOTE:
IMPROVEMENTS TO THE INTERSECTION OF SKYLINE DRIVE AND HILL BRADY ROAD ARE CURRENTLY BEING PLANNED BY THE CITY OF BATTLE CREEK. THE CONCEPT SHOWN IS FAVORED BY THE CITY AND DESIGN OF THE PUBLIC IMPROVEMENTS WILL POSSIBLY BEGIN DURING PHASE B2 OF THE ENTRY CONTROL FACILITY DESIGN. THE DESIGN OF THE ENTRY CONTROL FACILITY CONNECTION TO THE PUBLIC ROAD WILL BE MODIFIED TO COORDINATE WITH THE IMPROVEMENTS PLANNED BY THE CITY.



Mead & Hunt
 Mead and Hunt, Inc.
 2440 Deming Way
 Middleton, WI 53562
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SHEET CONTENTS
 PROJECT GEOMETRICS

SHEET NO.

C-081

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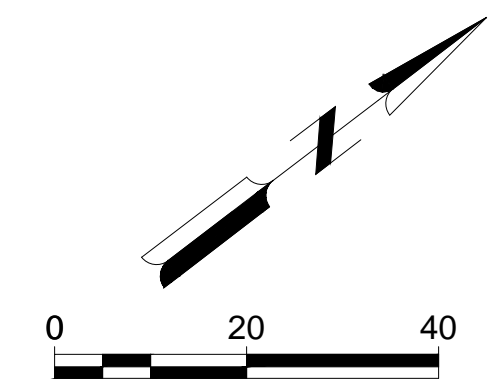
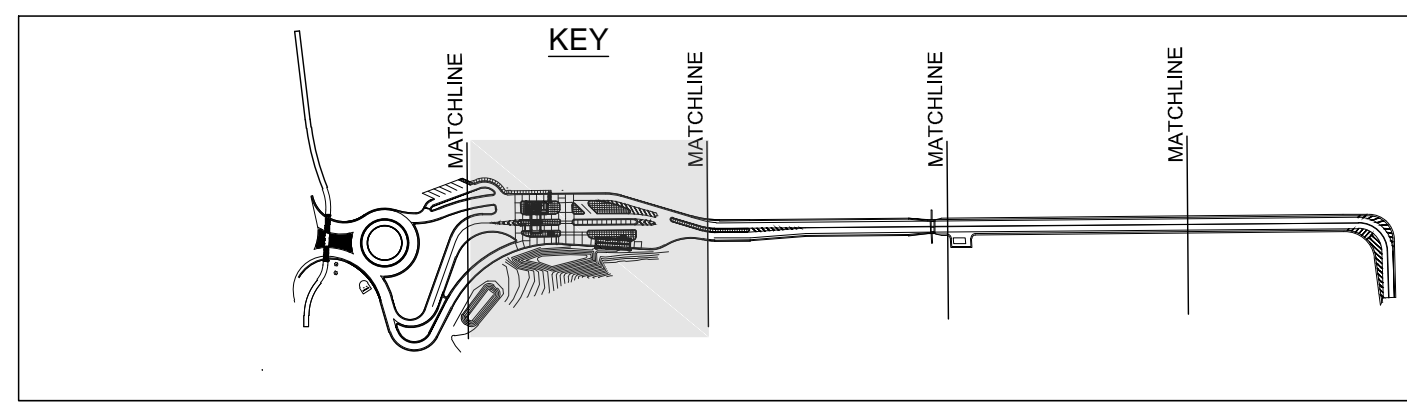
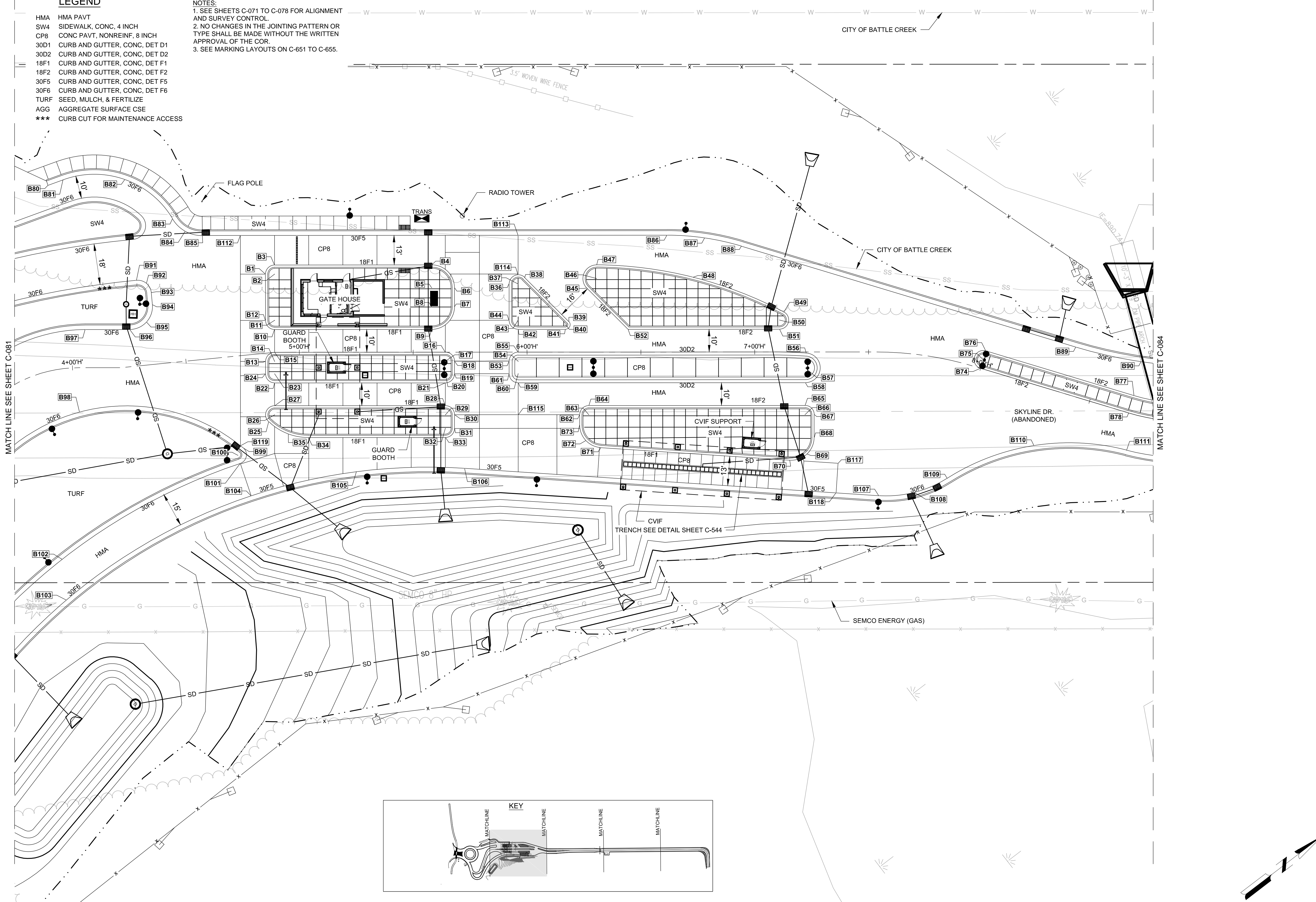
SHEET NO.

C-082

LEGEND

- HMA HMA PAVT
- SW4 SIDEWALK, CONC, 4 INCH
- CP8 CONC PAVT, NONREINF, 8 INCH
- 30D1 CURB AND GUTTER, CONC, DET D1
- 30D2 CURB AND GUTTER, CONC, DET D2
- 18F1 CURB AND GUTTER, CONC, DET F1
- 18F2 CURB AND GUTTER, CONC, DET F2
- 30F5 CURB AND GUTTER, CONC, DET F5
- 30F6 CURB AND GUTTER, CONC, DET F6
- TURF SEED, MULCH, & FERTILIZE
- AGG AGGREGATE SURFACE CSE
- *** CURB CUT FOR MAINTENANCE ACCESS

- NOTES:
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 2. NO CHANGES IN THE JOINTING PATTERN OR TYPE SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE COR.
 3. SEE MARKING LAYOUTS ON C-651 TO C-655.

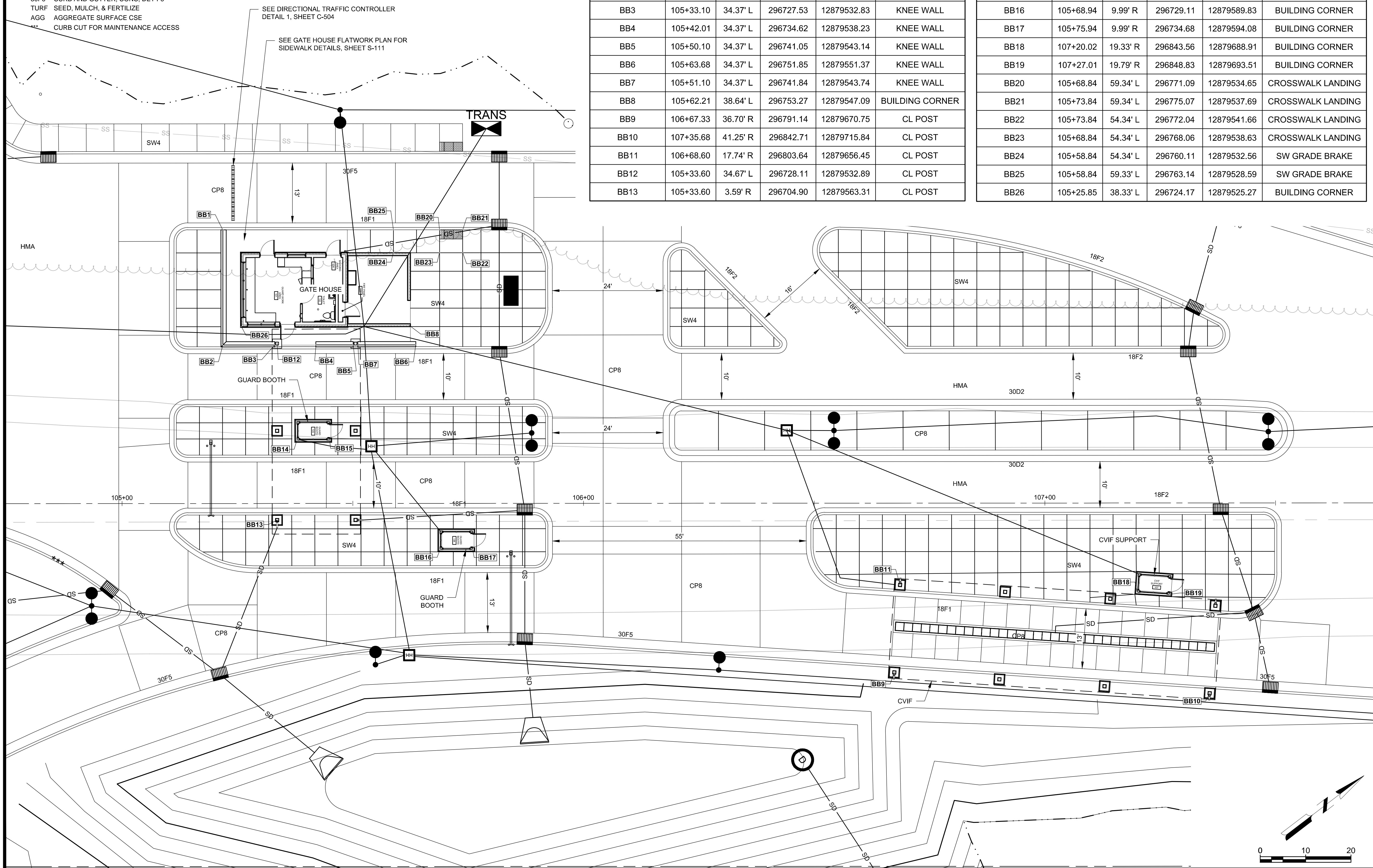


LEGEND

- HMA HMA PAVT
- SW4 SIDEWALK, CONC, 4 INCH
- CP8 CONC PAVT, NONREINF, 8 INCH
- 30D1 CURB AND GUTTER, CONC, DET D1
- 30D2 CURB AND GUTTER, CONC, DET D2
- 18F1 CURB AND GUTTER, CONC, DET F1
- 18F2 CURB AND GUTTER, CONC, DET F2
- 30F5 CURB AND GUTTER, CONC, DET F5
- 30F6 CURB AND GUTTER, CONC, DET F6
- TURF SEED, MULCH, & FERTILIZE
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- ** CURB CUT FOR MAINTENANCE ACCESS

NOTES:

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POINT TABLE					
POINT NUMBER	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION
BB1	105+21.86	59.33' L	296733.75	12879506.16	KNEE WALL
BB2	105+21.87	34.36' L	296718.60	12879526.01	KNEE WALL
BB3	105+33.10	34.37' L	296727.53	12879532.83	KNEE WALL
BB4	105+42.01	34.37' L	296734.62	12879538.23	KNEE WALL
BB5	105+50.10	34.37' L	296741.05	12879543.14	KNEE WALL
BB6	105+63.68	34.37' L	296751.85	12879551.37	KNEE WALL
BB7	105+51.10	34.37' L	296741.84	12879543.74	KNEE WALL
BB8	105+62.21	38.64' L	296753.27	12879547.09	BUILDING CORNER
BB9	106+67.33	36.70' R	296791.14	12879670.75	CL POST
BB10	107+35.68	41.25' R	296842.71	12879715.84	CL POST
BB11	106+68.60	17.74' R	296803.64	12879656.45	CL POST
BB12	105+33.60	34.67' L	296728.11	12879532.89	CL POST
BB13	105+33.60	3.59' R	296704.90	12879563.31	CL POST

POINT TABLE					
POINT NUMBER	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION
BB14	105+37.93	13.75' L	296718.87	12879552.15	CL POST
BB15	105+44.93	13.75' L	296724.43	12879556.39	CL POST
BB16	105+68.94	9.99' R	296729.11	12879589.83	BUILDING CORNER
BB17	105+75.94	9.99' R	296734.68	12879594.08	BUILDING CORNER
BB18	107+20.02	19.33' R	296843.56	12879688.91	BUILDING CORNER
BB19	107+27.01	19.79' R	296848.83	12879693.51	BUILDING CORNER
BB20	105+68.84	59.34' L	296771.09	12879534.65	CROSSWALK LANDING
BB21	105+73.84	59.34' L	296775.07	12879537.69	CROSSWALK LANDING
BB22	105+73.84	54.34' L	296772.04	12879541.66	CROSSWALK LANDING
BB23	105+68.84	54.34' L	296768.06	12879538.63	CROSSWALK LANDING
BB24	105+58.84	54.34' L	296760.11	12879532.56	SW GRADE BRAKE
BB25	105+58.84	59.33' L	296763.14	12879528.59	SW GRADE BRAKE
BB26	105+25.85	38.33' L	296724.17	12879525.27	BUILDING CORNER



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 BATTLE CREEK, MICHIGAN

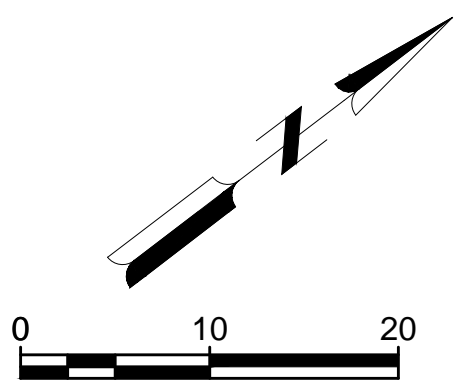
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SHEET CONTENTS
 PROJECT GEOMETRICS

SHEET NO.

C-083



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**MICHIGAN AIR NATIONAL GUARD
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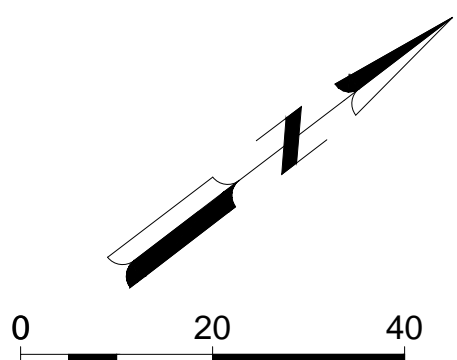
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PROJECT
GEOMETRICS

SHEET NO.

C-084

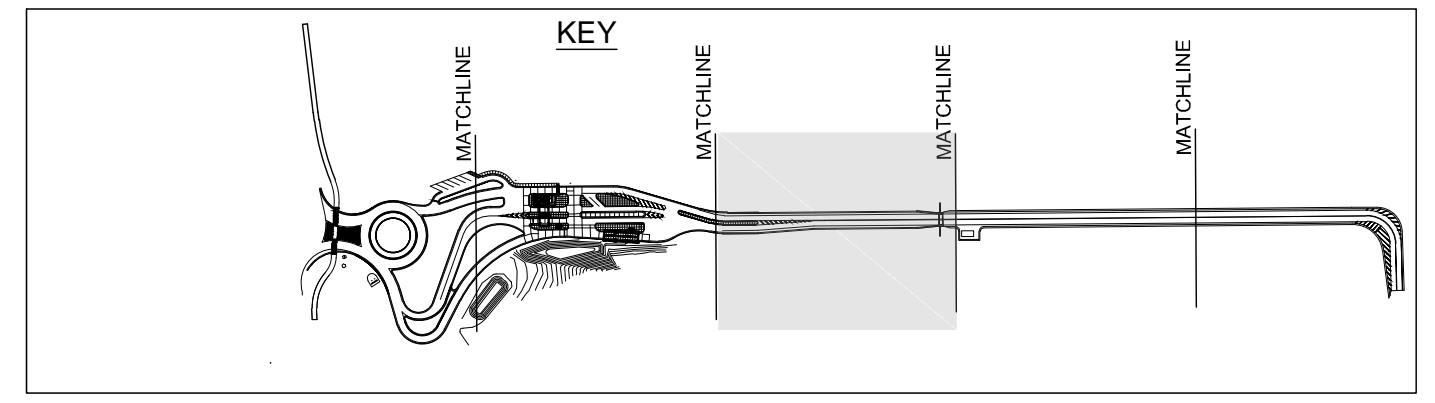
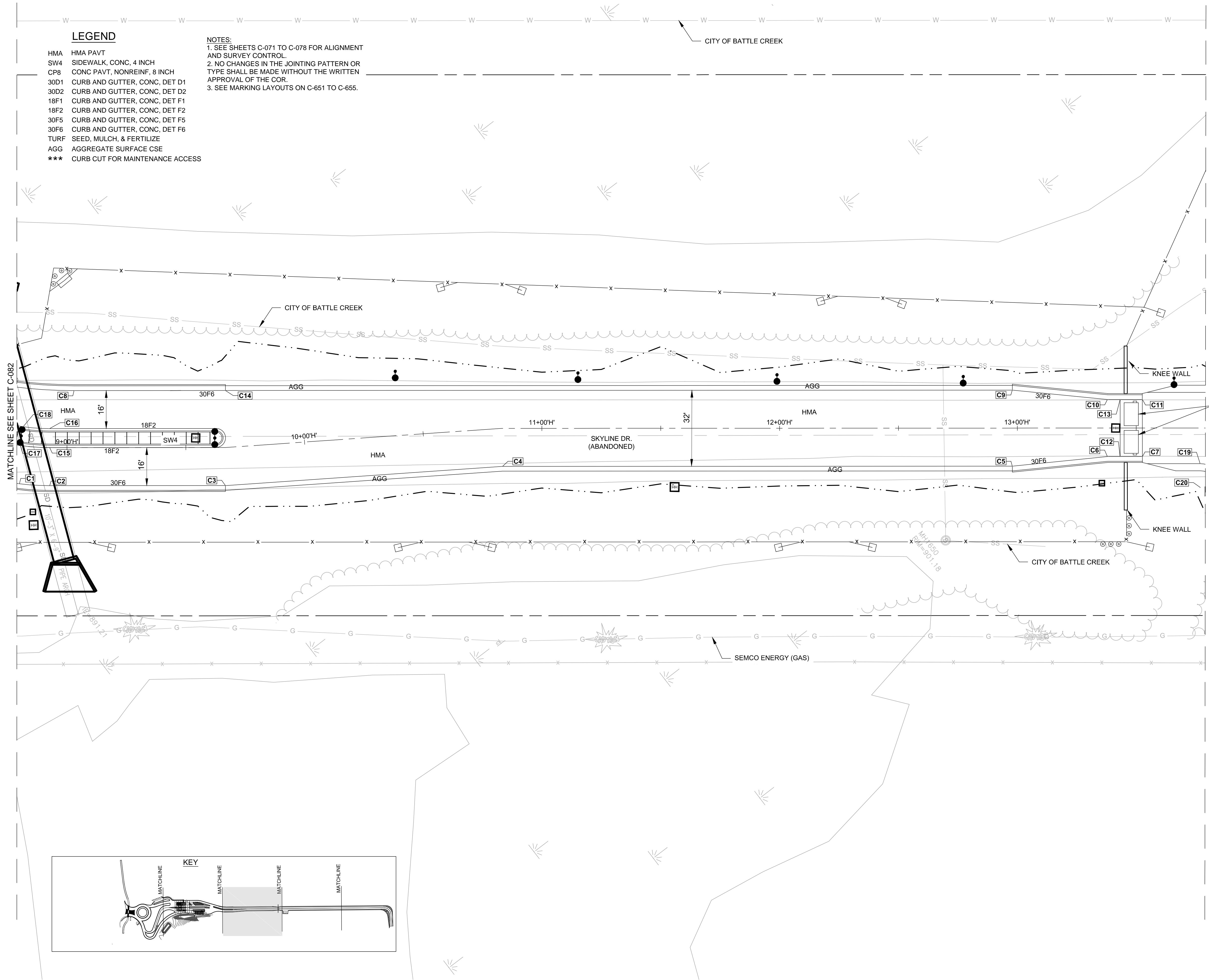


LEGEND

- HMA HMA PAVT
- SW4 SIDEWALK, CONC, 4 INCH
- CP8 CONC PAVT, NONREINF, 8 INCH
- 30D1 CURB AND GUTTER, CONC, DET D1
- 30D2 CURB AND GUTTER, CONC, DET D2
- 18F1 CURB AND GUTTER, CONC, DET F1
- 18F2 CURB AND GUTTER, CONC, DET F2
- 30F5 CURB AND GUTTER, CONC, DET F5
- 30F6 CURB AND GUTTER, CONC, DET F6
- TURF SEED, MULCH, & FERTILIZE
- AGG AGGREGATE SURFACE CSE
- *** CURB CUT FOR MAINTENANCE ACCESS

NOTES:

1. SEE SHEETS C-071 TO C-078 FOR ALIGNMENT AND SURVEY CONTROL.
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3. SEE MARKING LAYOUTS ON C-651 TO C-655.





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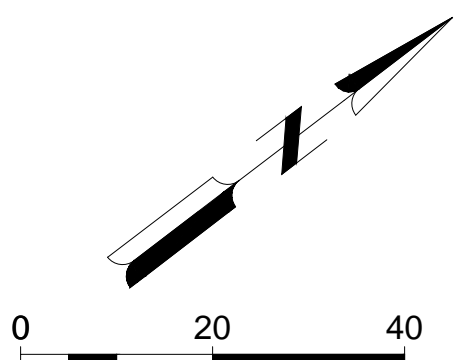
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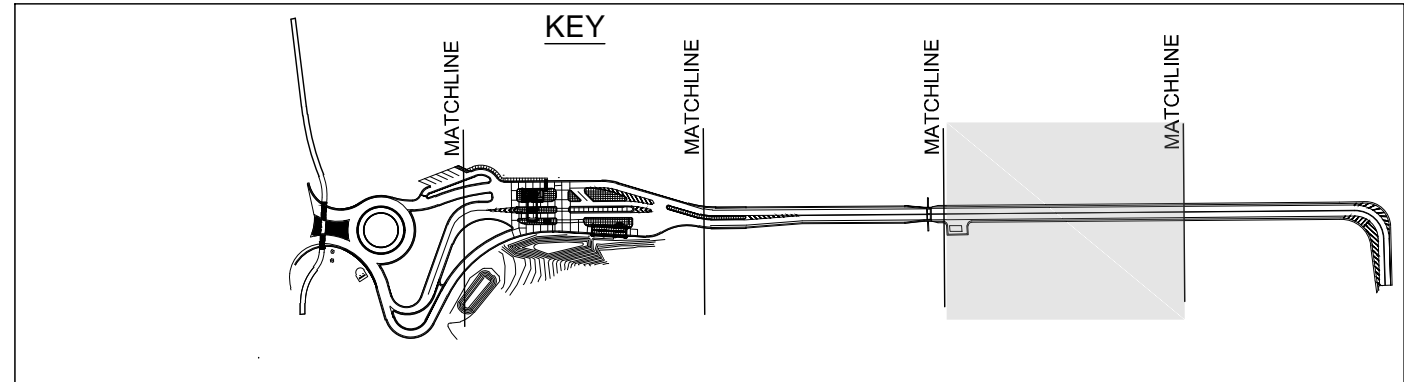
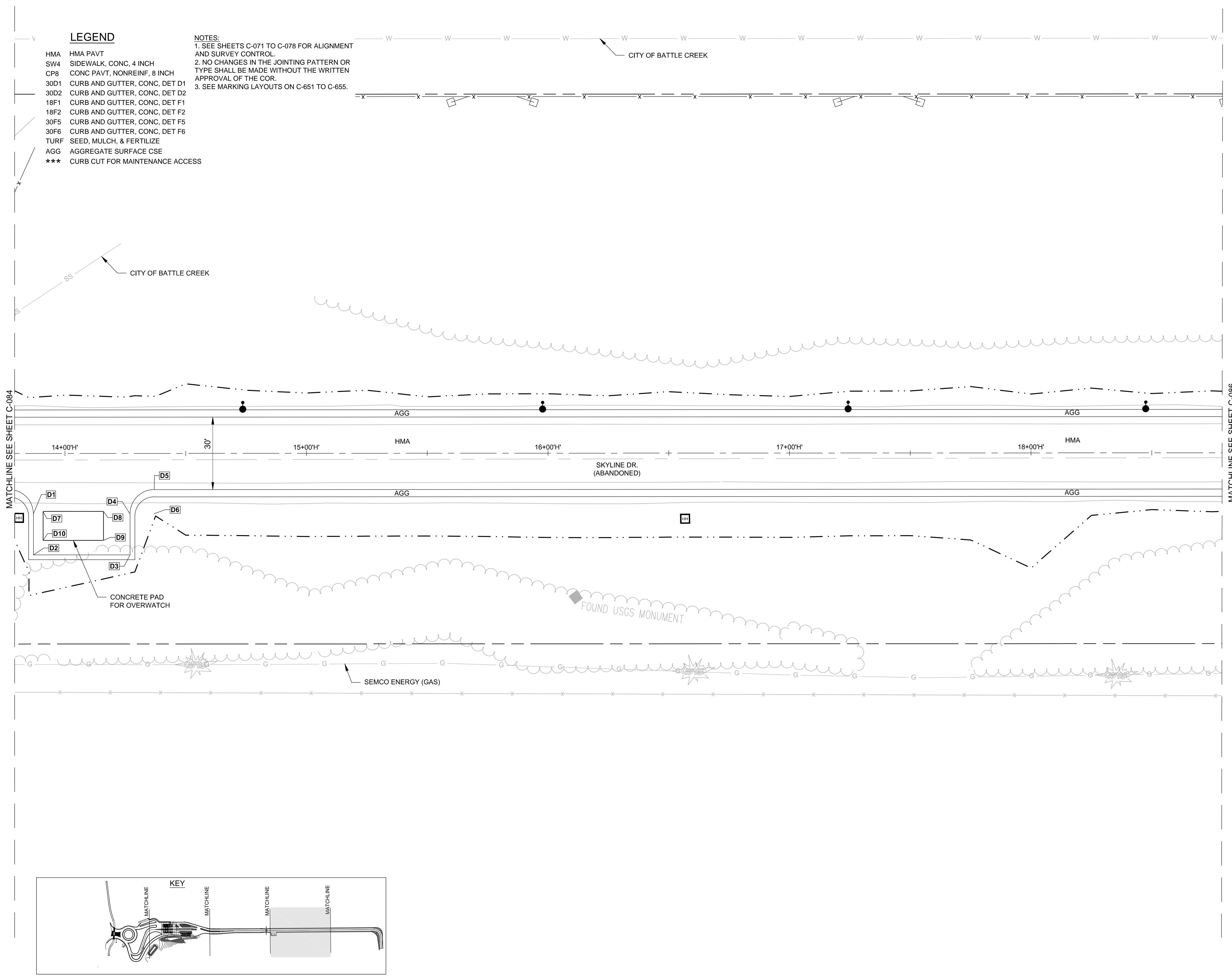
SHEET NO.

C-085



- LEGEND**
- HMA HMA PAVT
 - SW4 SIDEWALK, CONC, 4 INCH
 - CP8 CONC PAVT, NONREINF, 8 INCH
 - 30D1 CURB AND GUTTER, CONC, DET D1
 - 30D2 CURB AND GUTTER, CONC, DET D2
 - 18F1 CURB AND GUTTER, CONC, DET F1
 - 18F2 CURB AND GUTTER, CONC, DET F2
 - 30F5 CURB AND GUTTER, CONC, DET F5
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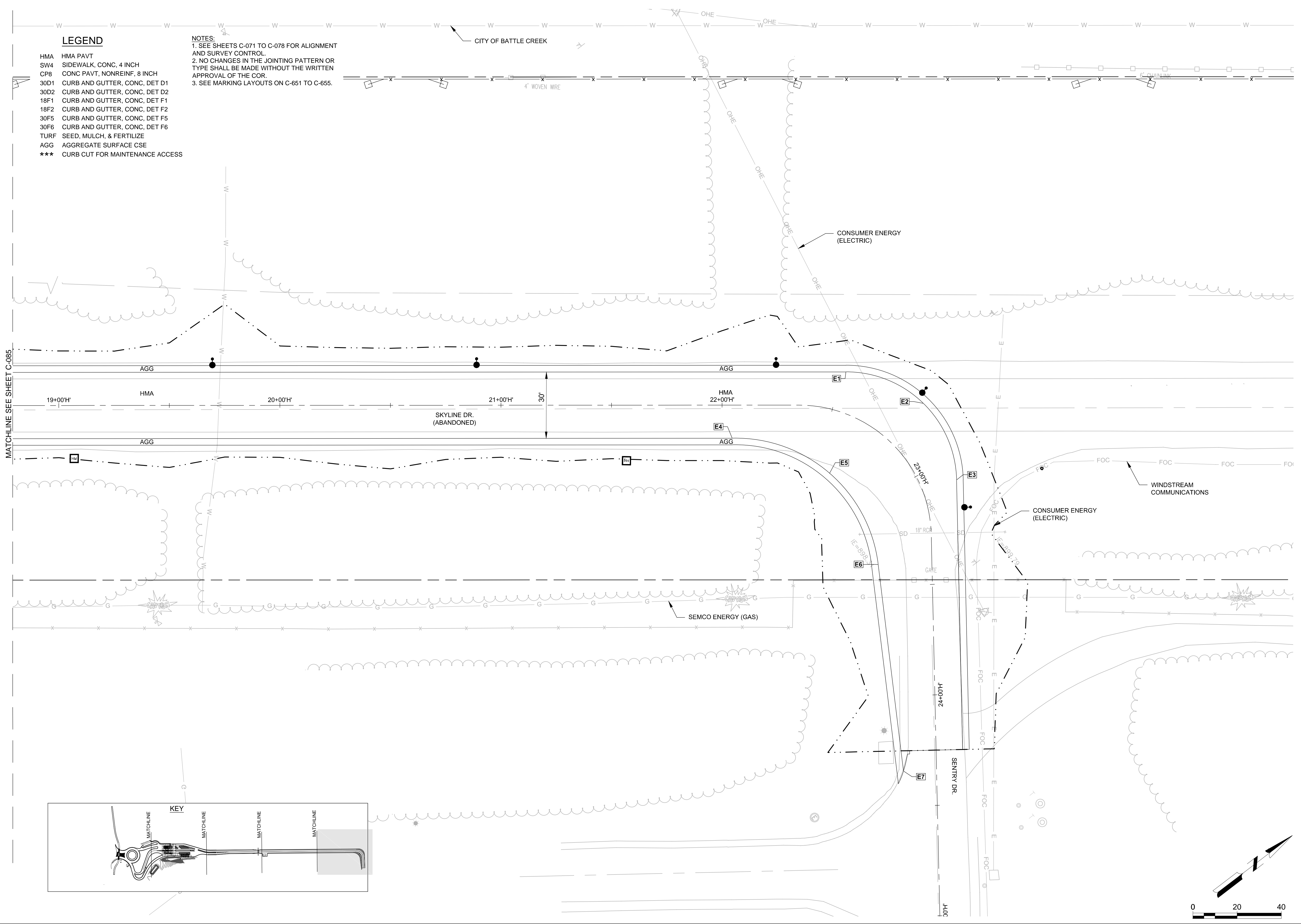
C-086

LEGEND

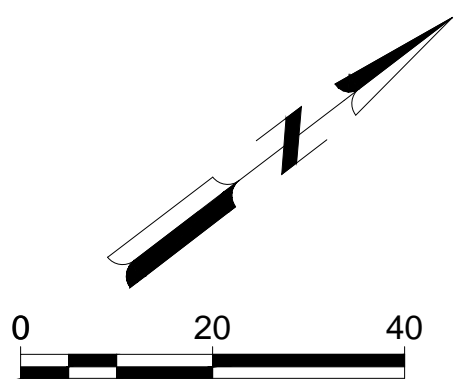
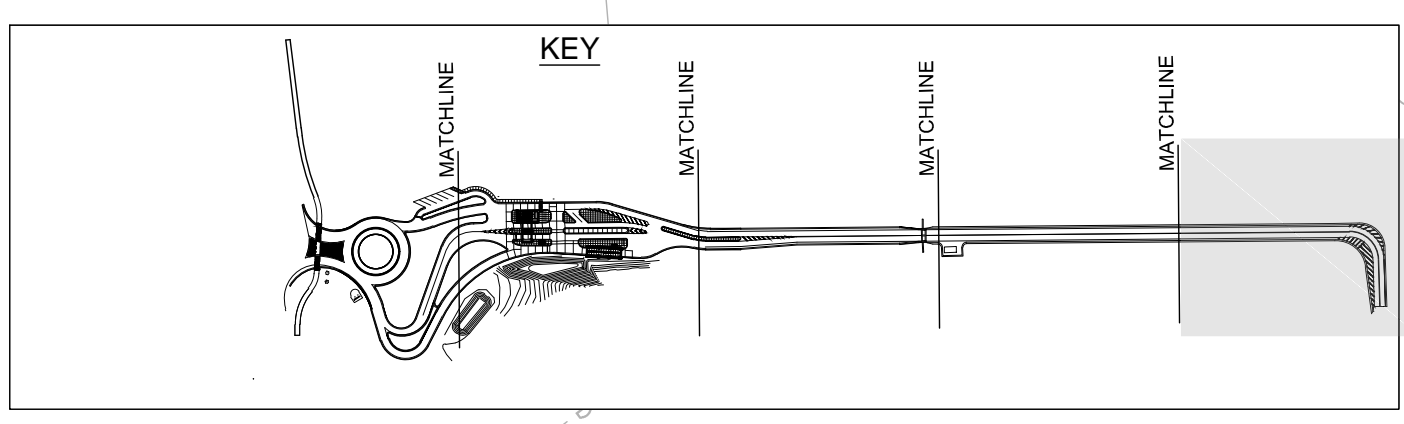
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MATCHLINE SEE SHEET C-085





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**MICHIGAN AIR NATIONAL GUARD
CONSTRUCT MAIN BASE ENTRANCE**

BATTLE CREEK ANGB
BATTLE CREEK, MICHIGAN

ISSUED
02/17/21 B3 FINAL

ANG Project No: MBMV099170
MH No: 3141900-113782.01
DATE: FEBRUARY 17, 2021
DESIGNED BY: JAK
DRAWN BY: DAY
CHECKED BY: SAH
DO NOT SCALE DRAWINGS

SHEET CONTENTS
PROJECT
GEOMETRICS

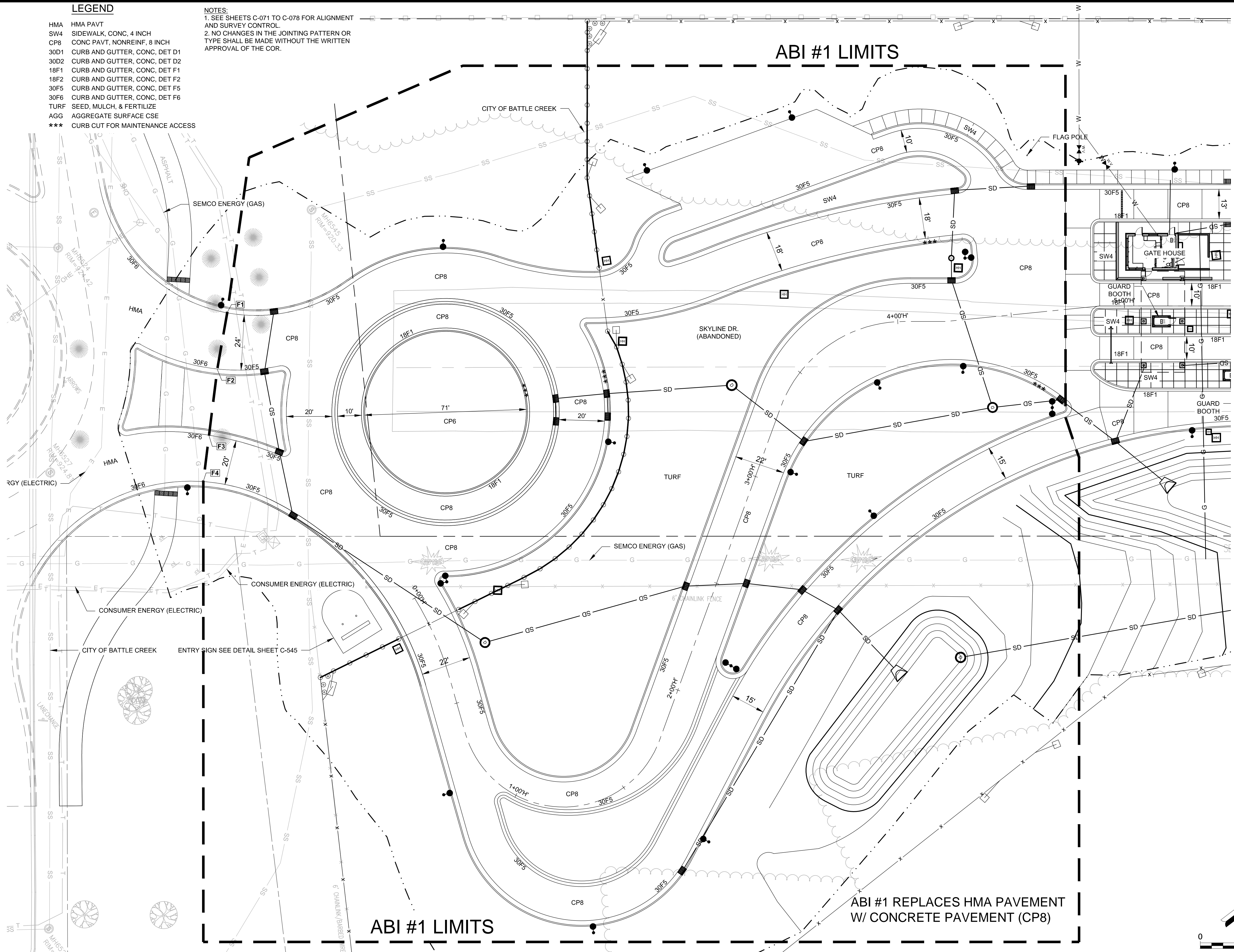
SHEET NO.

C-087

LEGEND

- HMA HMA PAVT
- SW4 SIDEWALK, CONC, 4 INCH
- CP8 CONC PAVT, NONREINF, 8 INCH
- 30D1 CURB AND GUTTER, CONC, DET D1
- 30D2 CURB AND GUTTER, CONC, DET D2
- 18F1 CURB AND GUTTER, CONC, DET F1
- 18F2 CURB AND GUTTER, CONC, DET F2
- 30F5 CURB AND GUTTER, CONC, DET F5
- 30F6 CURB AND GUTTER, CONC, DET F6
- TURF SEED, MULCH, & FERTILIZE
- AGG AGGREGATE SURFACE CSE
- *** CURB CUT FOR MAINTENANCE ACCESS

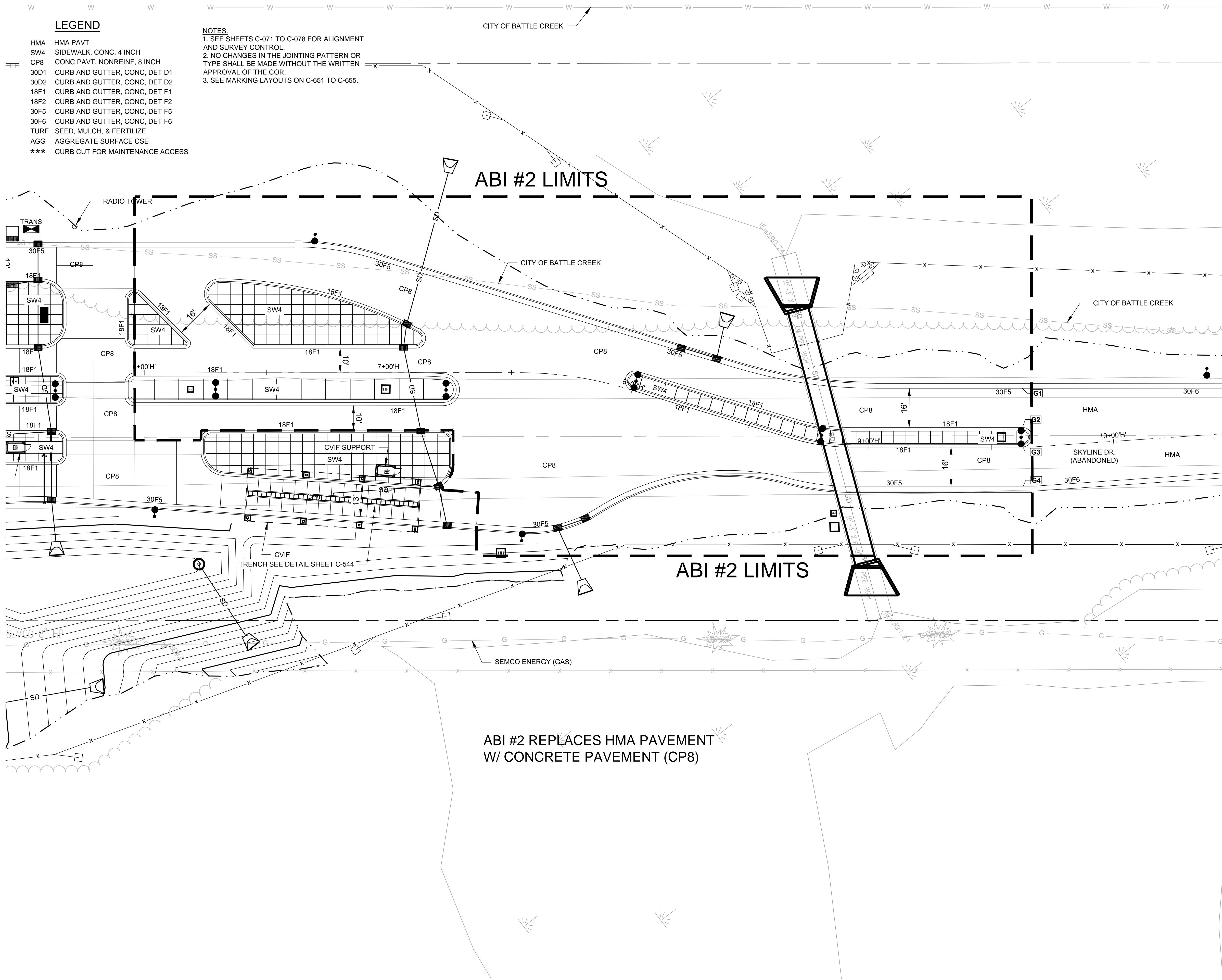
NOTES:
1. SEE SHEETS C-071 TO C-078 FOR ALIGNMENT AND SURVEY CONTROL.
2. NO CHANGES IN THE JOINTING PATTERN OR TYPE SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE COR.



LEGEND

- HMA HMA PAVT
- SW4 SIDEWALK, CONC, 4 INCH
- CP8 CONC PAVT, NONREINF, 8 INCH
- 30D1 CURB AND GUTTER, CONC, DET D1
- 30D2 CURB AND GUTTER, CONC, DET D2
- 18F1 CURB AND GUTTER, CONC, DET F1
- 18F2 CURB AND GUTTER, CONC, DET F2
- 30F5 CURB AND GUTTER, CONC, DET F5
- 30F6 CURB AND GUTTER, CONC, DET F6
- TURF SEED, MULCH, & FERTILIZE
- AGG AGGREGATE SURFACE CSE
- *** CURB CUT FOR MAINTENANCE ACCESS

- NOTES:**
1. SEE SHEETS C-071 TO C-078 FOR ALIGNMENT AND SURVEY CONTROL.
 2. NO CHANGES IN THE JOINTING PATTERN OR TYPE SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE COR.
 3. SEE MARKING LAYOUTS ON C-651 TO C-655.



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BATTLE CREEK ANGB
BATTLE CREEK, MICHIGAN

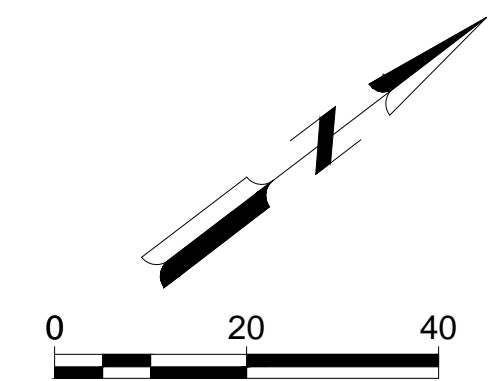
ISSUED
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ANG Project No: MBMV099170
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DATE: FEBRUARY 17, 2021
DESIGNED BY: JAK
DRAWN BY: DAY
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DO NOT SCALE DRAWINGS

SHEET CONTENTS
PROJECT
GEOMETRICS

SHEET NO.

C-088



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2/10/2021 7:58:39 AM

POINT TABLE					
POINT NUMBER	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION
A1	100+74.57	75.28' L	296387.82	12879222.15	
A2	101+17.89	23.32' L	296390.74	12879289.73	RADIUS = 70'
A3	101+84.94	32.27' L	296449.48	12879323.29	
A4	102+15.80	45.17' L	296481.83	12879331.76	RADIUS = 70'
A5	102+49.12	42.27' L	296506.57	12879354.27	
A6	102+70.39	36.99' L	296520.27	12879371.38	RADIUS = 130'
A7	102+92.25	35.35' L	296536.66	12879385.94	
A8	103+04.09	39.37' L	296548.50	12879389.92	RADIUS = 20'
A9	103+11.22	49.63' L	296560.40	12879386.10	
A10	103+15.83	57.63' L	296568.92	12879382.53	RADIUS = 20'
A11	103+23.55	62.70' L	296578.13	12879383.18	
A12	103+30.59	65.27' L	296585.29	12879385.41	
A13	103+99.00	45.02' L	296627.39	12879443.02	RADIUS = 382'
A14	103+46.36	28.09' L	296575.27	12879424.53	
A15	103+18.08	19.85' L	296547.79	12879413.93	RADIUS = 148'
A16	102+88.73	17.36' L	296522.95	12879398.10	
A17	102+88.68	14.36' L	296521.09	12879400.46	RADIUS = 3'
A18	102+86.13	12.79' L	296518.10	12879400.17	
A19	100+45.29	94.03' R	296261.84	12879338.99	
A20	100+91.02	57.85' R	296320.14	12879337.96	RADIUS = 80'
A21	101+49.15	62.31' R	296363.65	12879376.77	
A22	101+92.24	95.84' R	296377.57	12879429.56	RADIUS = 130'
A23	102+25.78	94.00' R	296405.35	12879448.44	
A24	102+25.73	98.00' R	296402.88	12879451.60	RADIUS = 4'
A25	102+22.32	100.08' R	296398.91	12879451.18	
A26	102+31.94	118.53' R	296395.36	12879471.69	RADIUS = 152'
A27	102+38.94	138.12' R	296389.05	12879491.51	
A28	102+17.73	143.96' R	296368.64	12879483.28	
A29	102+45.69	162.04' R	296379.90	12879514.62	
A30	102+36.36	209.98' R	296343.40	12879547.07	
A31	102+77.15	186.79' R	296389.90	12879553.38	RADIUS = 34'
A32	102+80.99	247.57' R	296356.08	12879604.03	RADIUS = 52'
A33	103+32.44	220.03' R	296413.69	12879613.35	
A34	103+10.36	164.44' R	296429.86	12879555.76	
A35	103+64.45	159.09' R	296476.10	12879584.31	
A36	103+59.28	137.79' R	296484.92	12879564.24	
A37	103+49.63	140.65' R	296475.51	12879560.66	RADIUS = 9'
A38	103+46.83	128.56' R	296480.62	12879549.36	
A39	103+74.10	53.64' R	296547.75	12879506.34	
A40	103+65.28	13.56' R	296565.04	12879469.12	
A41	103+90.91	19.84' L	296605.68	12879458.12	RADIUS = 70'
A42	103+06.03	78.68' L	296573.89	12879359.85	
A43	103+89.75	109.15' L	296658.93	12879386.42	

POINT TABLE					
POINT NUMBER	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION
C1	109+01.04	23.19' R	296985.13	12879801.78	RADIUS = 100'
C2	109+13.78	24.00' R	296994.76	12879810.16	
C3	109+87.78	24.00' R	297053.59	12879855.05	
C4	111+04.32	16.00' R	297151.09	12879919.38	
C5	113+18.78	16.00' R	297321.59	12880049.48	END OF CURB
C6	113+58.78	12.00' R	297355.81	12880070.57	
C7	113+73.44	11.98' R	297367.48	12880079.44	END OF CURB
C8	109+24.14	16.00' L	297027.26	12879784.64	
C9	113+18.78	16.00' L	297341.00	12880024.04	END OF CURB
C10	113+58.78	12.00' L	297370.37	12880051.49	
C11	113+73.44	12.00' L	297382.03	12880060.38	END OF CURB
C12	113+64.11	12.00' R	297360.05	12880073.80	
C13	113+64.11	12.00' L	297374.61	12880054.72	
C14	109+87.78	16.00' L	297077.86	12879823.25	END OF CURB
C15	109+13.78	8.00' R	297004.47	12879797.44	
C16	109+13.78	0.00' R	297009.32	12879791.08	
C17	109+01.49	7.10' R	296995.24	12879789.26	
C18	109+02.66	0.82' L	297000.98	12879783.68	
C19	113+97.78	15.00' R	297385.00	12880096.61	
C20	113+97.78	25.00' R	297378.93	12880104.56	RADIUS = 10'

POINT TABLE					
POINT NUMBER	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION
D1	114+07.78	25.00' R	297386.88	12880110.63	
D2	114+07.78	42.00' R	297376.57	12880124.14	
D3	114+47.78	42.00' R	297408.37	12880148.41	
D4	114+47.78	25.00' R	297418.68	12880134.89	
D5	114+57.78	15.00' R	297432.70	12880133.01	
D6	114+57.78	25.00' R	297426.63	12880140.96	RADIUS = 10'
D7	114+11.78	24.00' R	297390.67	12880112.26	
D8	114+36.78	24.00' R	297410.54	12880127.43	
D9	114+36.78	36.00' R	297403.26	12880136.96	
D10	114+11.78	36.00' R	297383.39	12880121.80	

POINT TABLE					
POINT NUMBER	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION
E1	122+72.15	18.01' L	298102.08	12880606.05	
E2	123+00.35	22.90' L	298121.22	12880638.60	
E3	123+28.67	16.06' L	298112.15	12880675.25	
E4	122+25.44	15.02' R	298042.97	12880598.70	
E5	122+82.27	27.68' R	298068.31	12880637.97	
E6	123+61.27	24.32' R	298060.76	12880684.10	
E7	124+55.01	14.95' R	298013.11	12880765.38	

POINT TABLE					
POINT NUMBER	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION
F1	101+30.47	19.73' L	296398.56	12879300.22	ASPHALT/CONCRETE TRANSITION
F2	101+26.13	4.99' R	296380.12	12879317.23	ASPHALT/CONCRETE TRANSITION
F3	101+22.45	34.14' R	296359.52	12879338.18	ASPHALT/CONCRETE TRANSITION
F4	101+19.97	54.56' R	296345.15	12879352.91	ASPHALT/CONCRETE TRANSITION

POINT TABLE					
POINT NUMBER	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION
G1	109+83.78	16.00' L	297074.68	12879820.82	ASPHALT/CONCRETE TRANSITION
G2	109+83.83	0.00' R	297065.01	12879833.57	ASPHALT/CONCRETE TRANSITION
G3	109+84.05	7.99' R	297060.34	12879840.06	ASPHALT/CONCRETE TRANSITION
G4	109+84.05	24.00' R	297050.62	12879852.78	ASPHALT/CONCRETE TRANSITION

Mead & Hunt

Mead and Hunt, Inc.
2440 Deming Way
Middleton, WI 53562
phone: 608-273-6380
meadhunt.com



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 DRAWN BY: DAY
 CHECKED BY: SAH
DO NOT SCALE DRAWINGS

SHEET CONTENTS
 PROJECT
 GEOMETRICS

SHEET NO.

C-089

POINT TABLE

POINT NUMBER	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION
B1	105+10.27	56.83' L	296723.01	12879501.12	
B2	105+14.27	56.83' L	296726.19	12879503.54	RADIUS = 4'
B3	105+14.27	60.83' L	296728.62	12879500.36	
B4	105+83.27	60.83' L	296783.47	12879542.22	
B5	105+83.27	50.83' L	296777.41	12879550.17	RADIUS = 10'
B6	105+93.27	50.83' L	296785.36	12879556.24	
B7	105+93.27	42.50' L	296780.30	12879562.86	
B8	105+83.27	42.50' L	296772.35	12879556.80	RADIUS = 10'
B9	105+83.27	32.50' L	296766.28	12879564.75	
B10	105+14.27	32.50' L	296711.43	12879522.89	
B11	105+14.27	36.50' L	296713.86	12879519.71	RADIUS = 4'
B12	105+10.27	36.50' L	296710.68	12879517.28	
B13	105+10.27	18.50' L	296699.76	12879531.59	
B14	105+14.27	18.50' L	296702.94	12879534.02	RADIUS = 4'
B15	105+14.27	22.50' L	296705.36	12879530.84	
B16	105+89.27	22.50' L	296764.99	12879576.34	
B17	105+89.27	18.50' L	296762.56	12879579.52	RADIUS = 4'
B18	105+93.27	18.50' L	296765.74	12879581.94	
B19	105+93.27	13.00' L	296762.41	12879586.31	
B20	105+89.27	13.00' L	296759.23	12879583.89	RADIUS = 4'
B21	105+89.27	9.00' L	296756.80	12879587.07	
B22	105+14.27	9.00' L	296697.17	12879541.57	
B23	105+14.27	13.00' L	296699.60	12879538.39	RADIUS = 4'
B24	105+10.27	13.00' L	296696.42	12879535.96	
B25	105+11.67	8.04' R	296684.77	12879553.54	
B26	105+14.27	5.00' R	296688.68	12879552.70	RADIUS = 4'
B27	105+14.27	1.00' R	296691.11	12879549.52	
B28	105+89.27	1.00' R	296750.73	12879595.02	
B29	105+89.27	5.00' R	296748.31	12879598.20	RADIUS = 4'
B30	105+93.27	5.00' R	296751.49	12879600.62	
B31	105+93.27	11.00' R	296747.85	12879605.39	
B32	105+89.27	11.00' R	296744.67	12879602.97	RADIUS = 4'
B33	105+89.27	15.00' R	296742.24	12879606.15	
B34	105+29.03	15.00' R	296694.35	12879569.60	
B35	105+20.23	13.40' R	296688.32	12879562.99	RADIUS = 25'
B36	106+17.27	52.46' L	296805.43	12879569.50	
B37	106+21.27	52.46' L	296808.61	12879571.93	RADIUS = 4'
B38	106+24.10	55.29' L	296812.57	12879571.39	
B39	106+43.48	35.91' L	296816.22	12879598.55	
B40	106+42.06	34.50' L	296814.24	12879598.82	RADIUS = 2'
B41	106+42.06	32.50' L	296813.02	12879600.41	
B42	106+21.27	32.50' L	296796.49	12879587.80	ASPHALT/CONCRETE TRANSITION
B43	106+21.27	36.50' L	296798.92	12879584.62	RADIUS = 4'
B44	106+17.27	36.50' L	296795.74	12879582.19	
B45	106+51.44	50.58' L	296831.45	12879591.72	
B46	106+55.68	54.82' L	296837.39	12879590.92	RADIUS = 6'
B47	106+55.74	60.82' L	296841.08	12879586.19	
B48	106+98.09	55.34' L	296871.42	12879616.24	RADIUS = 180'
B49	107+37.95	40.04' L	296893.83	12879652.59	
B50	107+36.09	36.50' L	296890.20	12879654.27	RADIUS = 4'

POINT TABLE

POINT NUMBER	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION
B51	107+36.09	32.50' L	296887.77	12879657.45	
B52	106+69.52	32.50' L	296834.85	12879617.07	
B53	106+17.27	18.50' L	296784.82	12879596.50	
B54	106+21.27	18.50' L	296788.00	12879598.93	RADIUS = 4'
B55	106+21.27	22.50' L	296790.43	12879595.75	ASPHALT/CONCRETE TRANSITION
B56	107+47.89	21.98' L	296890.78	12879672.97	
B57	107+47.42	15.50' L	296886.47	12879677.84	RADIUS = 6.5'
B58	107+47.42	9.00' L	296882.53	12879683.00	
B59	106+21.27	9.00' L	296782.24	12879606.48	ASPHALT/CONCRETE TRANSITION
B60	106+21.27	13.00' L	296784.66	12879603.30	RADIUS = 4'
B61	106+17.27	13.00' L	296781.48	12879600.87	
B62	106+48.27	5.00' R	296795.21	12879633.99	ASPHALT/CONCRETE TRANSITION
B63	106+52.27	5.00' R	296798.39	12879636.41	RADIUS = 4'
B64	106+52.27	1.00' R	296800.82	12879633.23	
B65	107+47.27	1.00' R	296876.34	12879690.86	
B66	107+47.27	5.00' R	296873.91	12879694.04	RADIUS = 4'
B67	107+51.27	5.00' R	296877.09	12879696.47	
B68	107+51.27	15.07' R	296870.99	12879704.47	
B69	107+48.10	22.37' R	296864.04	12879708.36	RADIUS = 10'
B70	107+40.61	25.04' R	296856.46	12879705.94	
B71	106+57.61	19.51' R	296793.83	12879651.19	
B72	106+50.97	16.36' R	296790.46	12879644.66	RADIUS = 10'
B73	106+48.27	9.53' R	296792.46	12879637.59	
B74	108+24.37	15.29' L	296947.52	12879724.69	
B75	108+25.53	19.12' L	296950.76	12879722.35	
B76	108+26.69	22.95' L	296954.00	12879720.00	
B77	108+91.78	3.26' L	296993.80	12879775.14	
B78	108+89.46	4.40' R	296987.32	12879779.82	
B80	104+14.79	95.91' L	296670.81	12879412.13	
B81	104+21.36	98.31' L	296677.49	12879414.21	
B82	104+48.51	98.39' L	296699.12	12879430.61	RADIUS = 40'
B83	104+69.45	81.12' L	296705.29	12879457.04	
B84	104+75.04	75.68' L	296706.43	12879464.76	RADIUS = 15'
B85	104+82.60	73.78' L	296711.29	12879470.86	
B86	106+86.66	73.83' L	296873.55	12879594.60	
B87	107+03.20	72.62' L	296885.96	12879605.60	RADIUS = 113'
B88	107+19.38	68.99' L	296896.63	12879618.30	
B89	108+66.22	24.57' L	296986.42	12879742.70	
B90	108+94.86	18.15' L	297005.29	12879765.17	RADIUS = 200'
B91	104+53.54	54.16' L	296676.29	12879468.83	
B92	104+57.93	52.81' L	296678.96	12879472.57	
B93	104+60.08	48.74' L	296678.20	12879477.10	
B94	104+60.57	43.43' L	296675.37	12879481.62	
B95	104+58.01	35.77' L	296668.69	12879486.16	
B96	104+50.62	32.50' L	296660.83	12879484.27	
B97	104+31.06	32.50' L	296645.28	12879472.41	
B98	104+28.55	3.73' R	296621.30	12879499.69	RADIUS = 80'
B99	105+00.66	19.68' R	296668.96	12879556.12	
B100	104+98.09	22.75' R	296665.05	12879557.00	RADIUS = 4'
B101	104+99.12	26.35' R	296663.69	12879560.48	ASPHALT/CONCRETE TRANSITION

POINT TABLE

POINT NUMBER	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION
B102	104+20.74	68.32' R	296575.91	12879546.30	RADIUS = 237'
B103	104+22.71	86.31' R	296566.57	12879561.79	RADIUS = 245'
B104	105+03.93	40.56' R	296658.90	12879574.70	ASPHALT/CONCRETE TRANSITION
B105	105+50.21	29.99' R	296702.09	12879594.37	RADIUS = 245'
B106	105+97.65	28.54' R	296740.69	12879622.00	
B107	107+79.65	40.68' R	296878.02	12879742.05	
B108	107+95.30	39.24' R	296891.32	12879750.40	RADIUS = 50'
B109	108+09.73	33.03' R	296906.57	12879754.22	
B110	108+47.84	18.70' R	296945.56	12879765.95	RADIUS = 100'
B111	108+88.51	20.75' R	296976.64	12879792.25	
B112	104+99.27	73.83' L	296724.58	12879480.93	ASPHALT/CONCRETE TRANSITION
B113	106+21.27	73.83' L	296821.57	12879554.94	ASPHALT/CONCRETE TRANSITION
B114	106+21.27	56.46' L	296811.03	12879568.75	ASPHALT/CONCRETE TRANSITION
B115	106+21.27	5.00' R	296773.75	12879617.61	ASPHALT/CONCRETE TRANSITION
B117	107+61.74	26.43' R	296872.41	12879719.86	ASPHALT/CONCRETE TRANSITION
B118	107+60.87	39.42' R	296863.84	12879729.66	ASPHALT/CONCRETE TRANSITION
B119	104+99.27	18.54' R	296668.54	12879554.37	ASPHALT/CONCRETE TRANSITION

Mead & Hunt

Mead and Hunt, Inc.
2440 Deming Way
Middleton, WI 53562
phone: 608-273-6380
meadhunt.com



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**MICHIGAN AIR NATIONAL GUARD
CONSTRUCT MAIN BASE ENTRANCE**
 BATTLE CREEK ANGB
 BATTLE CREEK, MICHIGAN

ISSUED
02/17/21 B3 FINAL

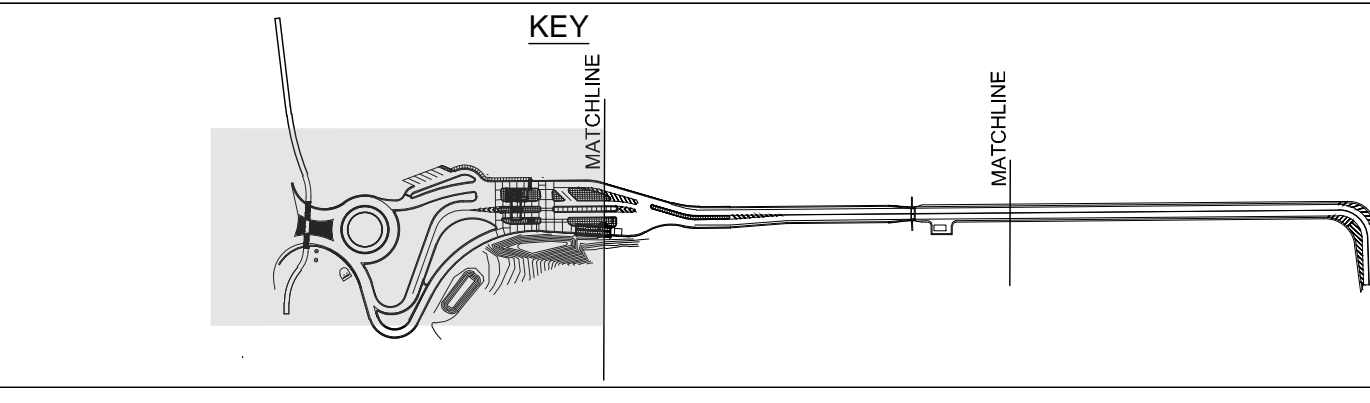
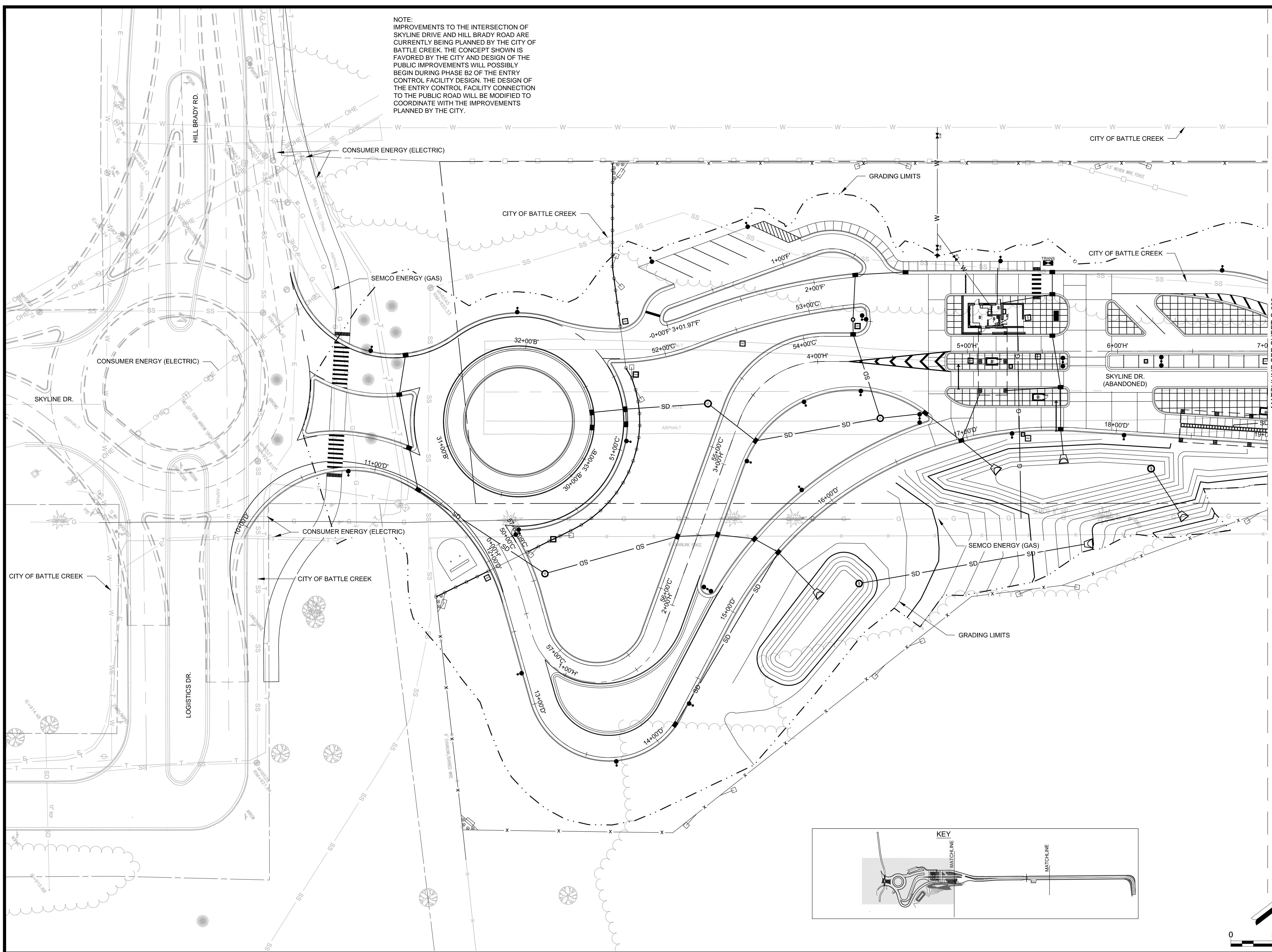
ANG Project No: MBMV099170
 MH No: 3141900-113782.01
 DATE: FEBRUARY 17, 2021
 DESIGNED BY: JAK
 DRAWN BY: DAY
 CHECKED BY: SAH
DO NOT SCALE DRAWINGS

SHEET CONTENTS
 PROJECT
 GEOMETRICS

SHEET NO.

C-090

NOTE:
 IMPROVEMENTS TO THE INTERSECTION OF
 SKYLINE DRIVE AND HILL BRADY ROAD ARE
 CURRENTLY BEING PLANNED BY THE CITY OF
 BATTLE CREEK. THE CONCEPT SHOWN IS
 FAVORED BY THE CITY AND DESIGN OF THE
 PUBLIC IMPROVEMENTS WILL POSSIBLY
 BEGIN DURING PHASE B2 OF THE ENTRY
 CONTROL FACILITY DESIGN. THE DESIGN OF
 THE ENTRY CONTROL FACILITY CONNECTION
 TO THE PUBLIC ROAD WILL BE MODIFIED TO
 COORDINATE WITH THE IMPROVEMENTS
 PLANNED BY THE CITY.



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**MICHIGAN AIR NATIONAL GUARD
 CONSTRUCT MAIN BASE ENTRANCE**
 BATTLE CREEK ANGB
 BATTLE CREEK, MICHIGAN

ISSUED
 02/17/21 B3 FINAL

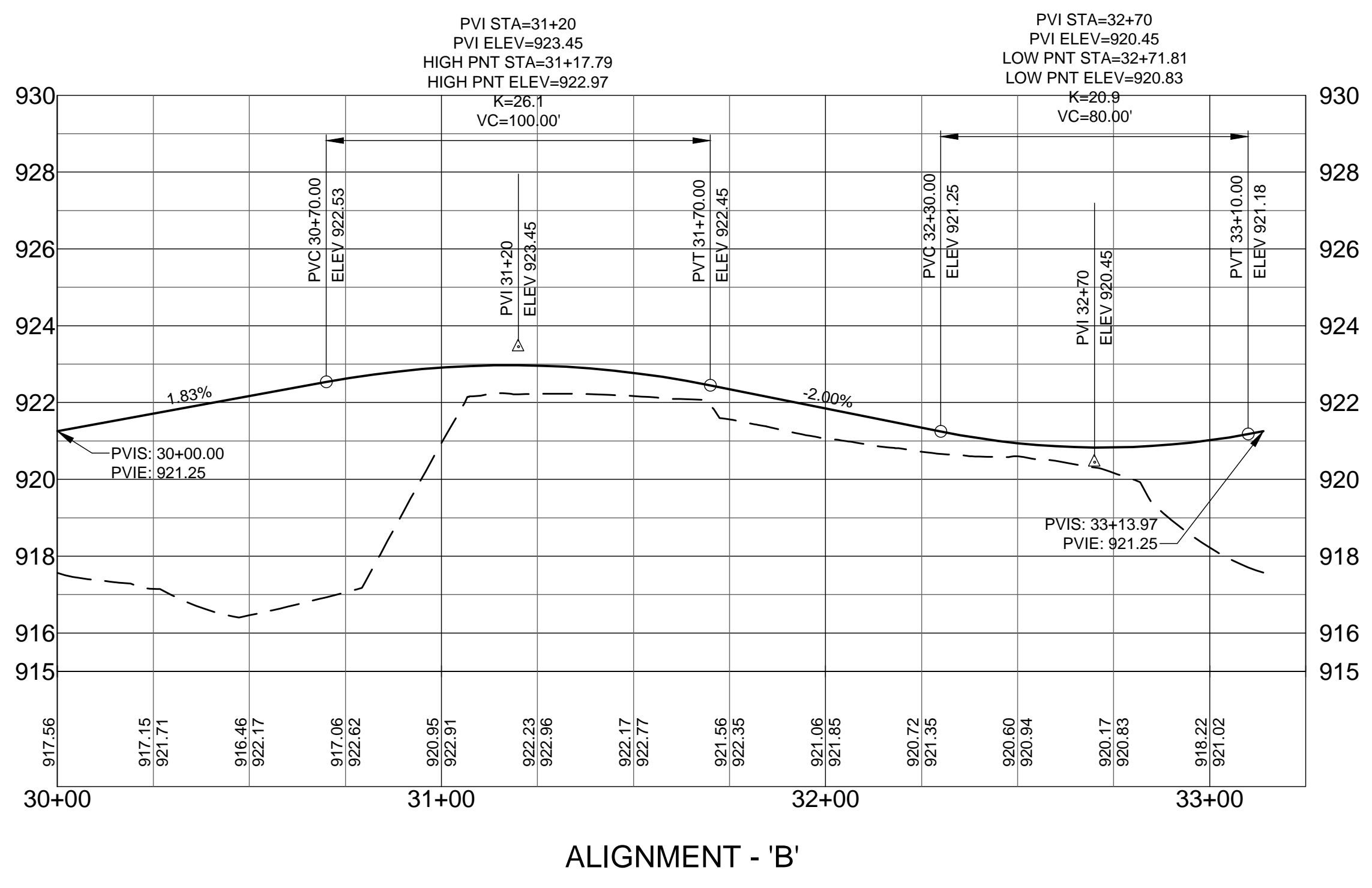
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 MH No: 3141900-113782.01
 DATE: FEBRUARY 17, 2021
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SHEET CONTENTS
 PLAN & PROFILES

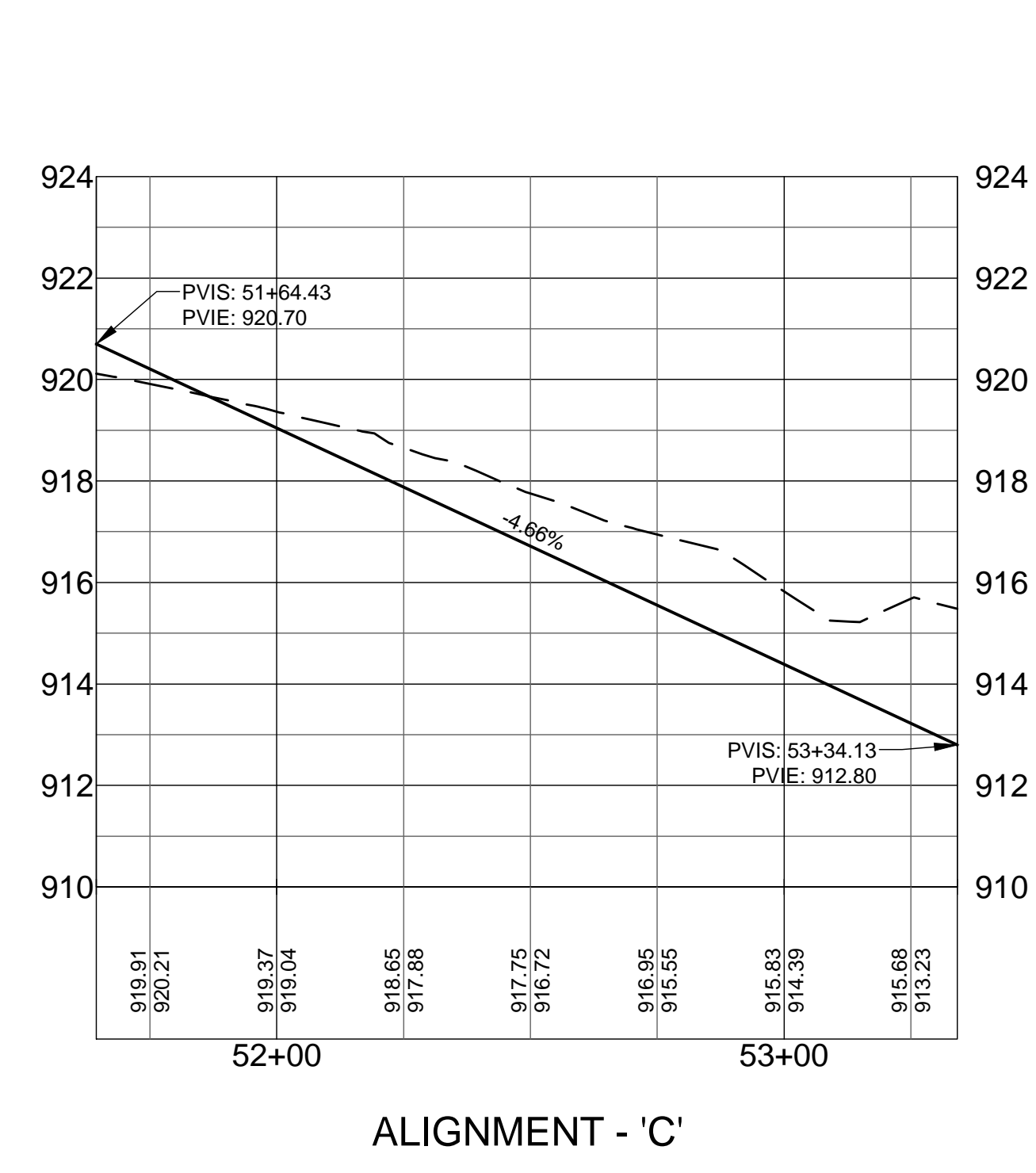
SHEET NO.

C-201

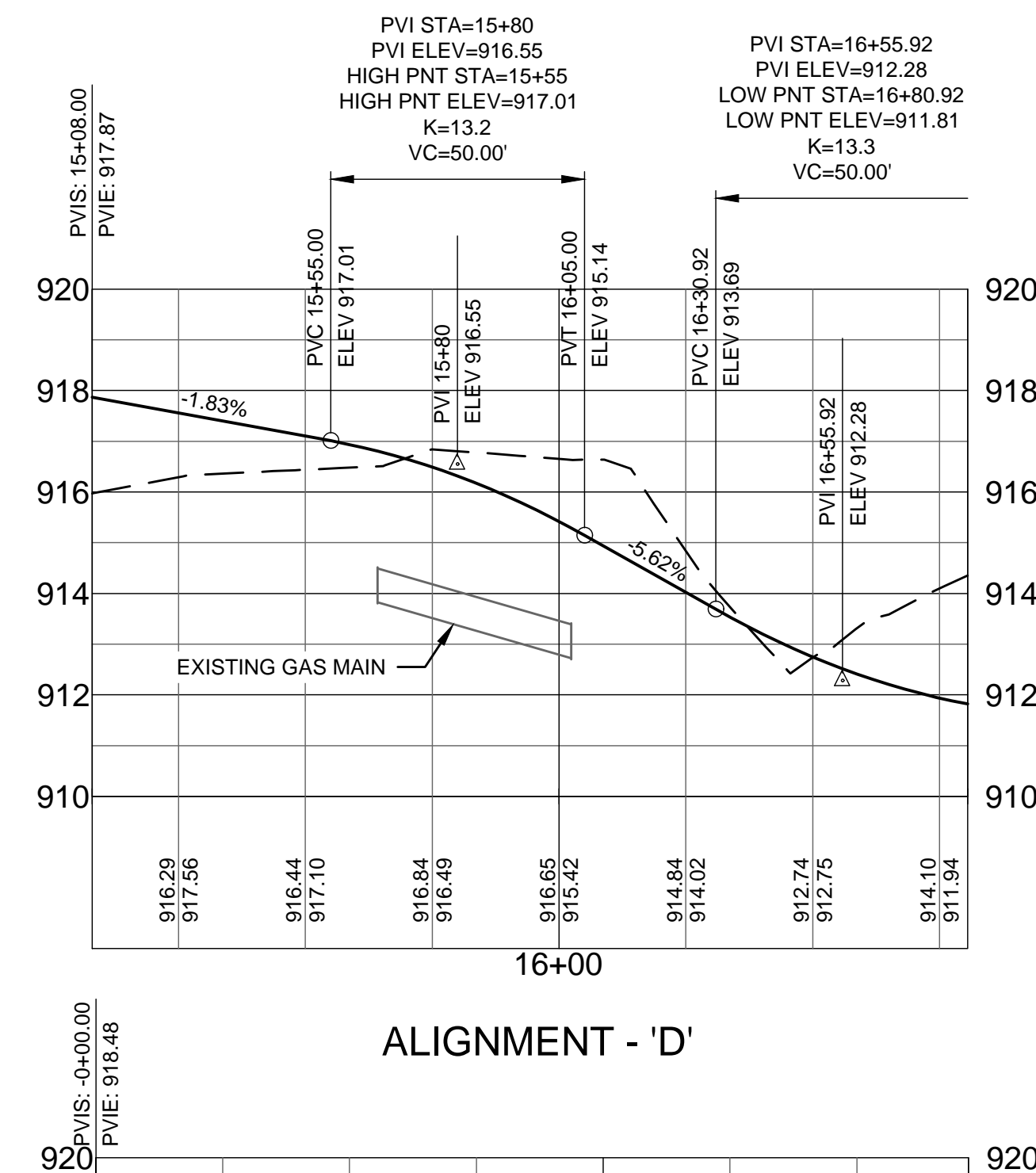
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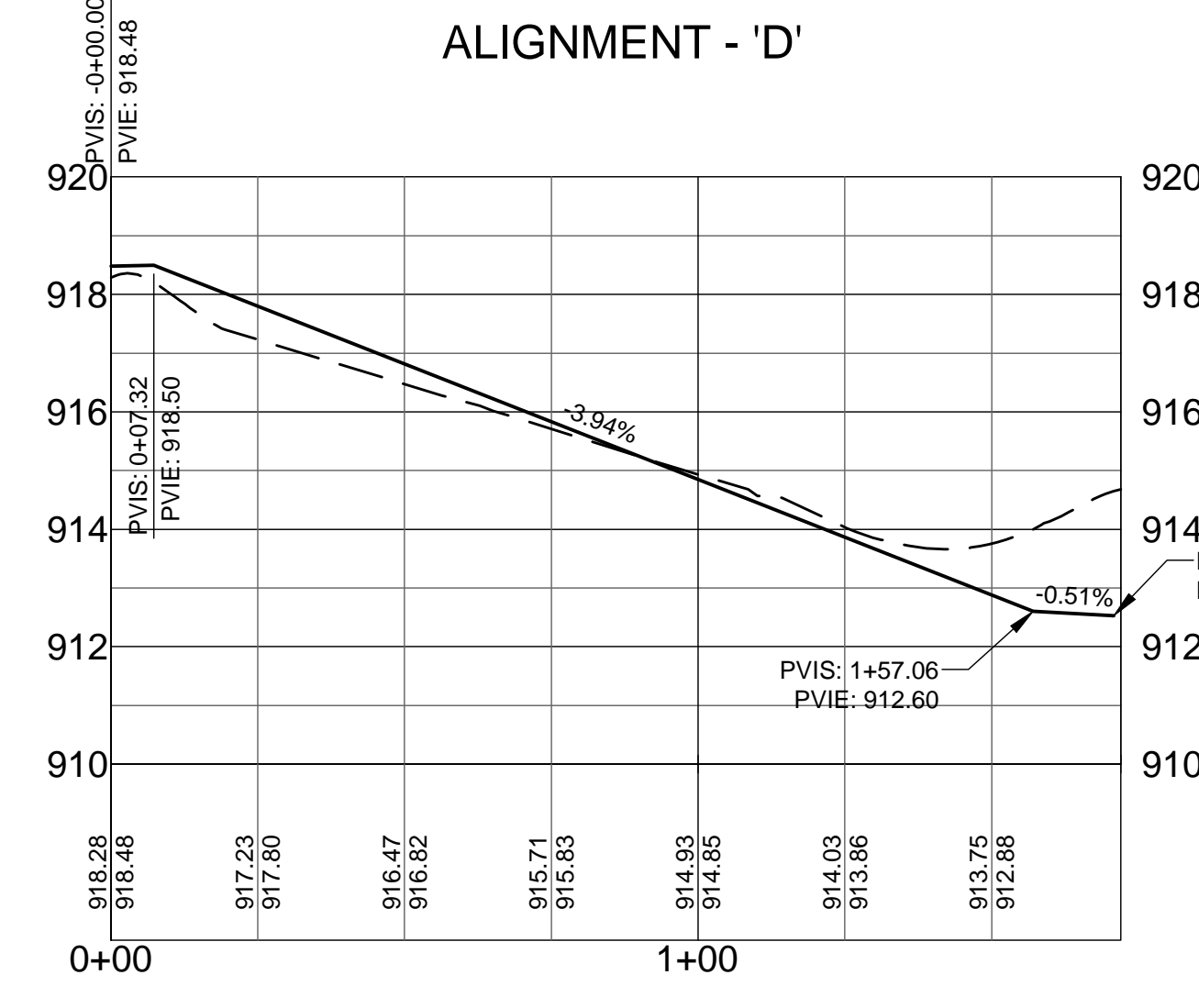
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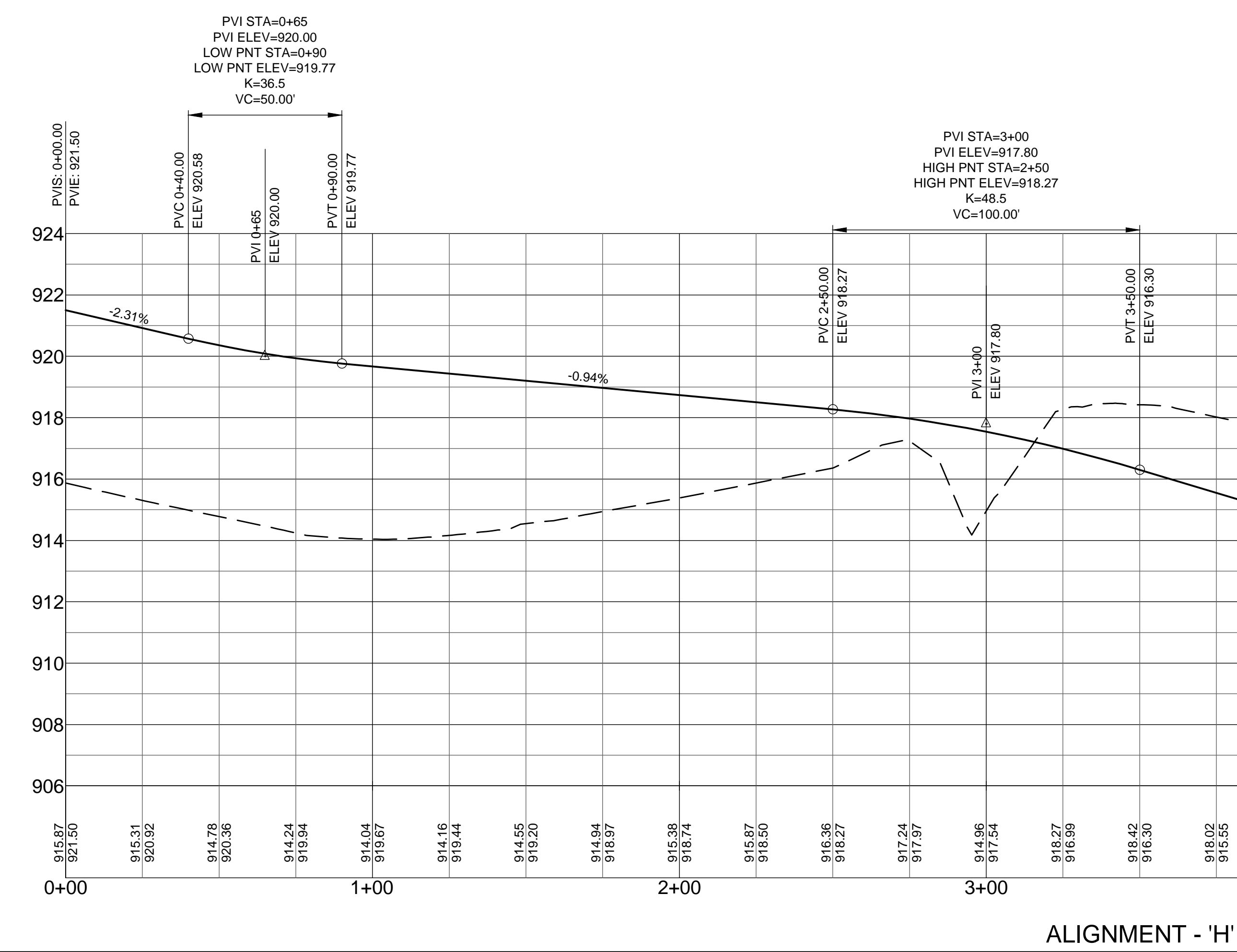
ALIGNMENT - 'C'



ALIGNMENT - 'D'



ALIGNMENT - 'F'



ALIGNMENT - 'H'



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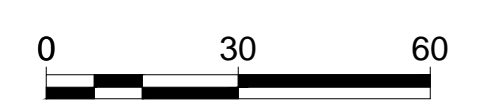
MICHIGAN AIR NATIONAL GUARD
CONSTRUCT MAIN BASE ENTRANCE
BATTLE CREEK ANGB
BATTLE CREEK, MICHIGAN

ISSUED 02/17/21 B3 FINAL

ANG Project No: MBMV099170
M&H No: 3141900-113782.01
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SHEET CONTENTS
PLAN & PROFILES

SHEET NO.



C-202

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MICHIGAN AIR NATIONAL GUARD CONSTRUCT MAIN BASE ENTRANCE

BATTLE CREEK ANGB
BATTLE CREEK, MICHIGAN

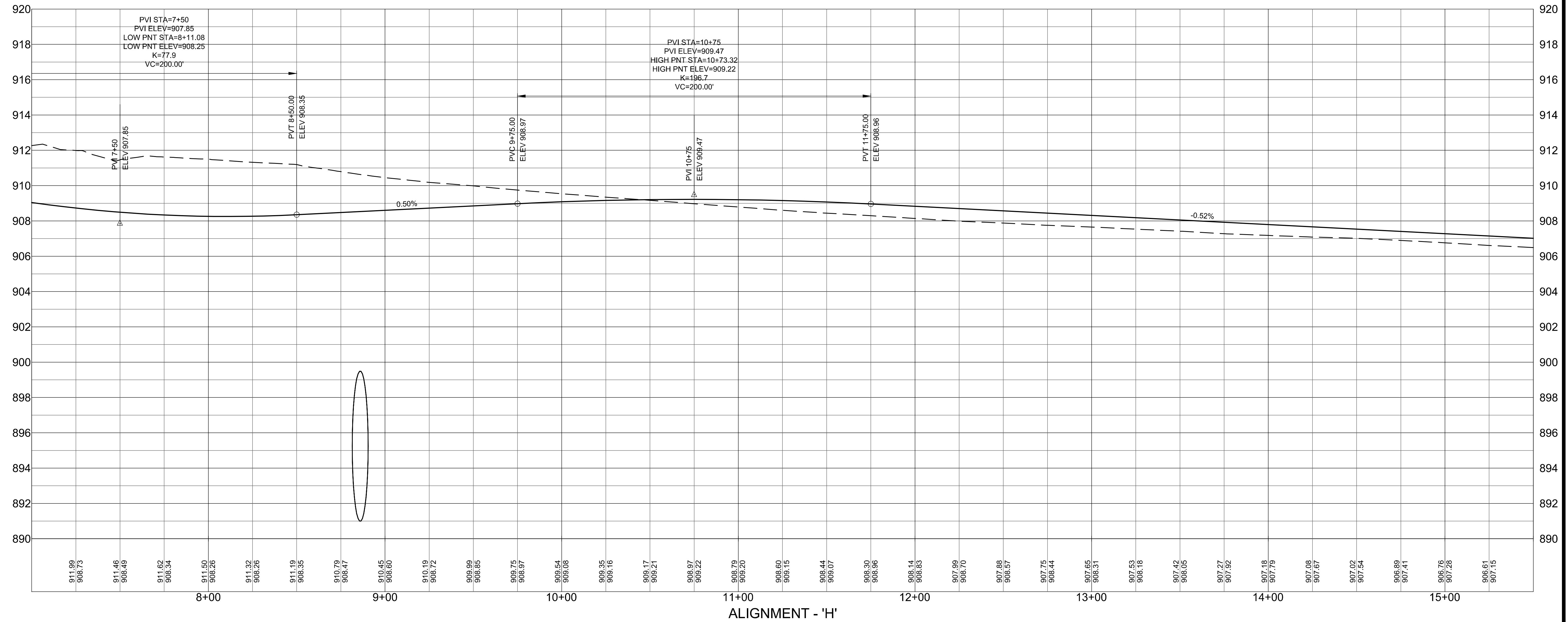
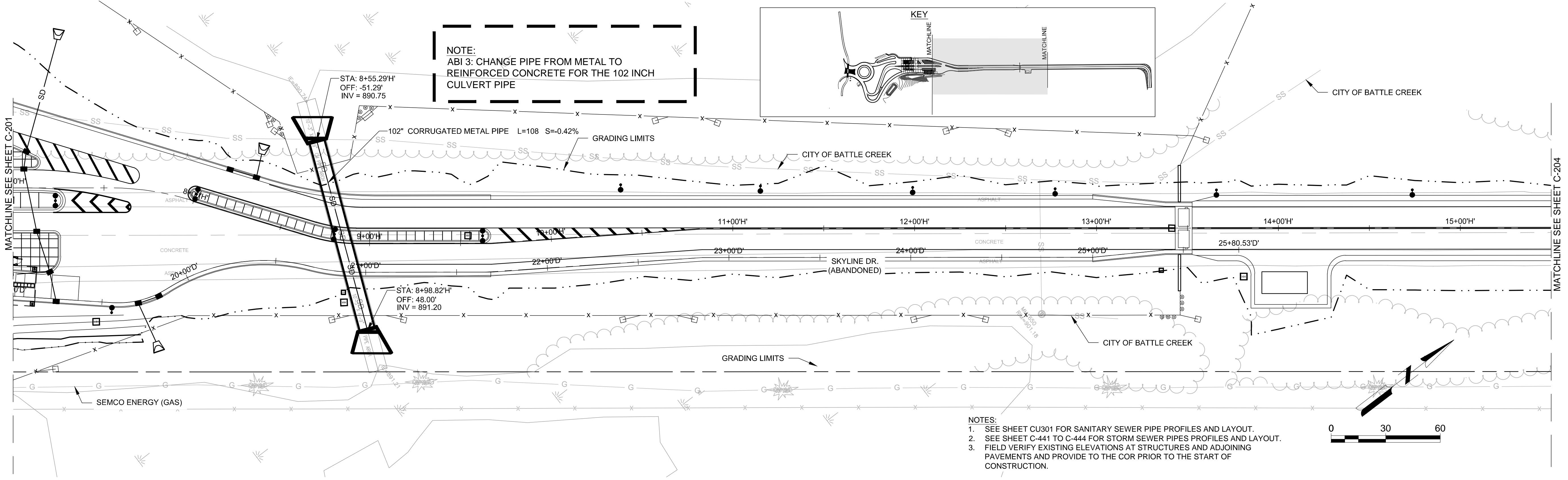
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ANG Project No: MBMV099170
MH No: 3141900-113782.01
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SHEET CONTENTS
PLAN & PROFILES

SHEET NO.

C-203





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MICHIGAN AIR NATIONAL GUARD CONSTRUCT MAIN BASE ENTRANCE

BATTLE CREEK ANGB
BATTLE CREEK, MICHIGAN

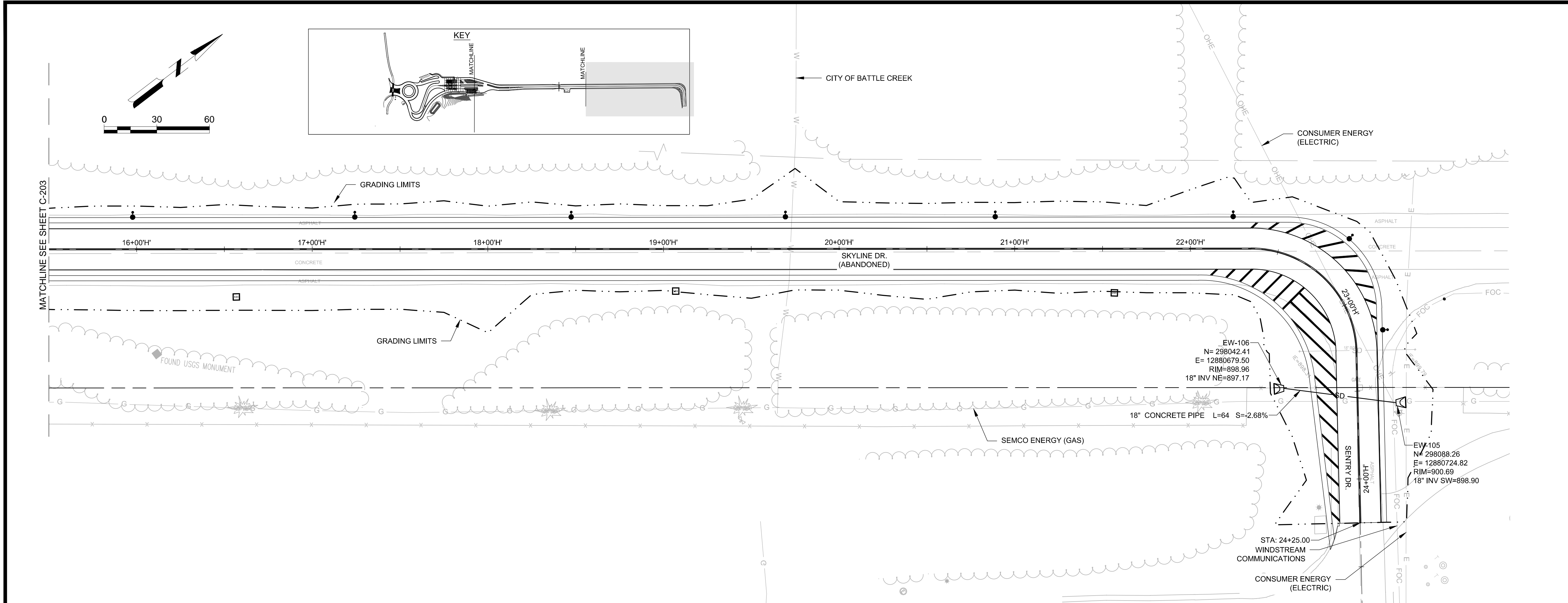
ISSUED 02/17/21 B3 FINAL

ANG Project No: MBMV099170
M&H No: 3141900-113782.01
DATE: FEBRUARY 17, 2021
DESIGNED BY: JAK
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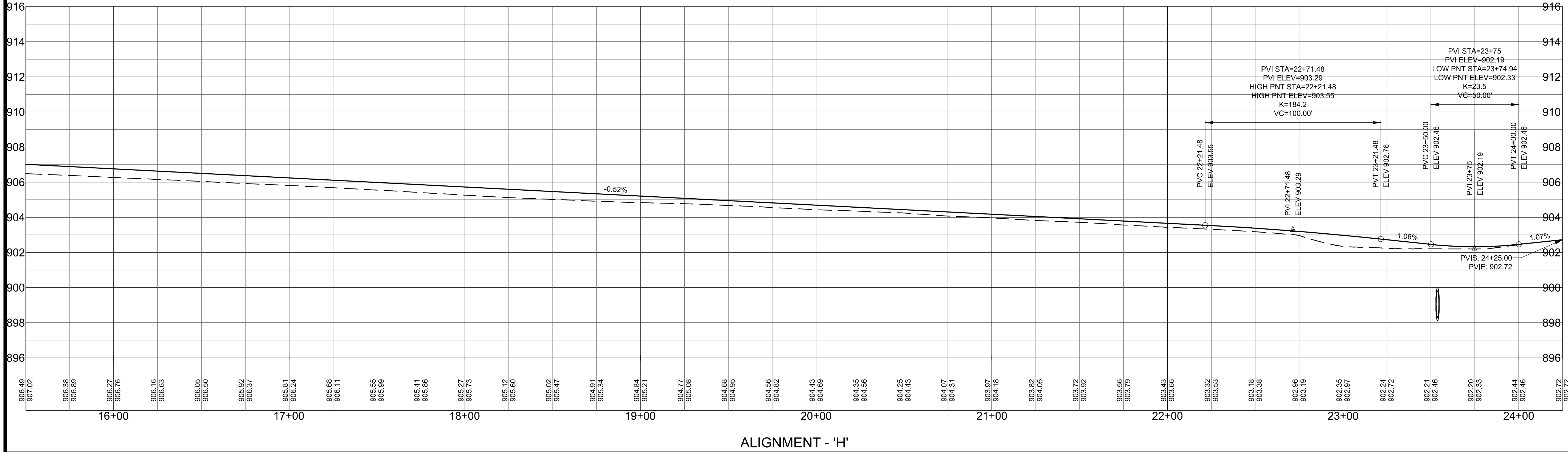
SHEET CONTENTS
PLAN & PROFILES

SHEET NO.

C-204



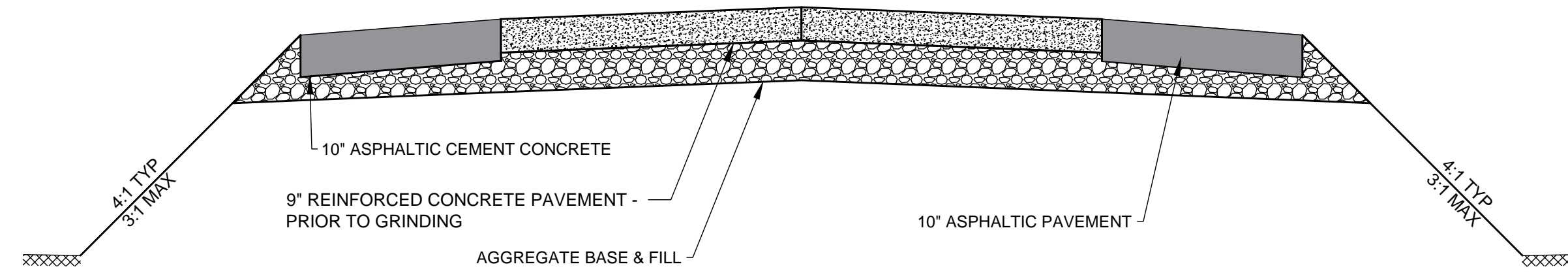
- NOTES:**
- SEE SHEET CU301 FOR SANITARY SEWER PIPE PROFILES AND LAYOUT.
 - SEE SHEET C-441 TO C-444 FOR STORM SEWER PIPES PROFILES AND LAYOUT.
 - FIELD VERIFY EXISTING ELEVATIONS AT ADJOINING PAVEMENTS AND PROVIDE TO THE COR PRIOR TO THE START OF CONSTRUCTION.



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1 ROAD EXISTING SECTION - STA. 102+00'EX' - 123+00'EX'
NOT TO SCALE ALIGNMENT CL

**MICHIGAN AIR NATIONAL GUARD
CONSTRUCT MAIN BASE ENTRANCE**

BATTLE CREEK ANGB
BATTLE CREEK, MICHIGAN

ISSUED
02/17/21 B3 FINAL

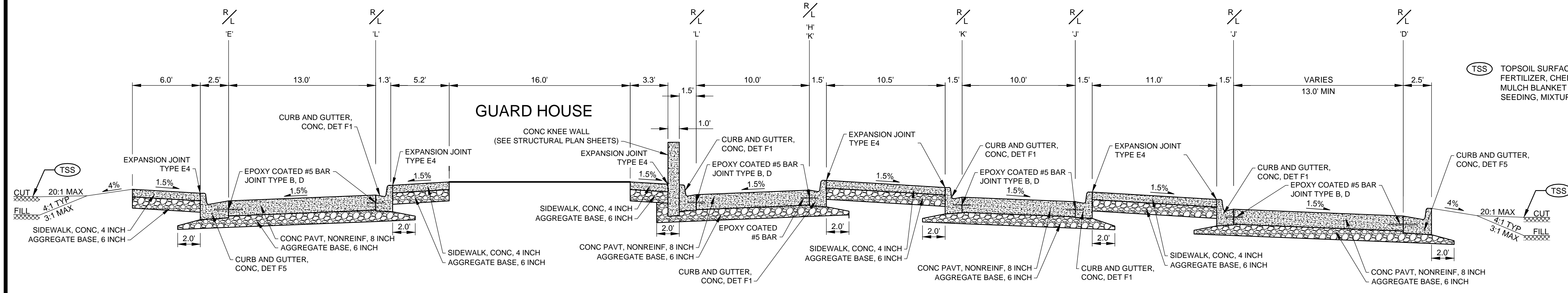
ANG Project No: MBMV099170
MMH No: 3141900-113782.01
DATE: FEBRUARY 17, 2021
DESIGNED BY: JAK
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SHEET CONTENTS
EXISTING TYPICAL
SECTIONS

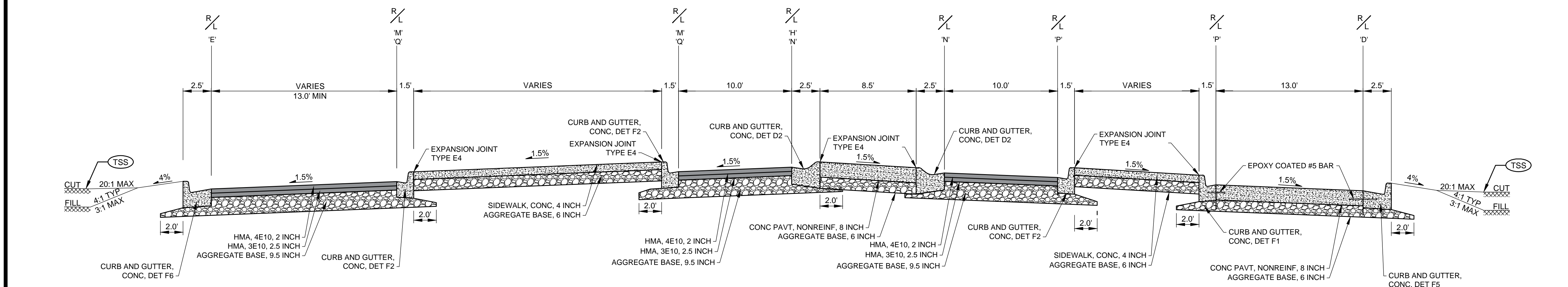
SHEET NO.

C-301

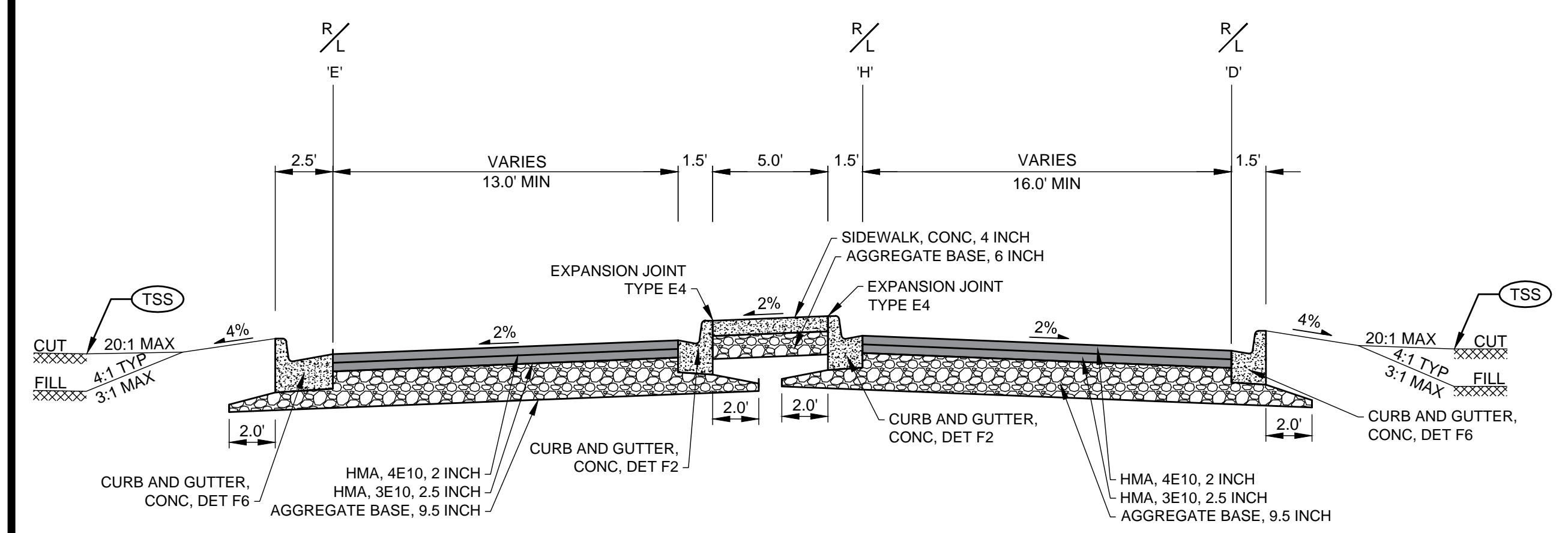
NOTES:
 1. SEE STANDARD DRAWINGS FOR CURB DIMENSIONS
 2. REMOVE EXISTING TOPSOIL UNDER NEW PAVEMENT SECTIONS TO OBTAIN REQUIRED SUBGRADE ELEVATION



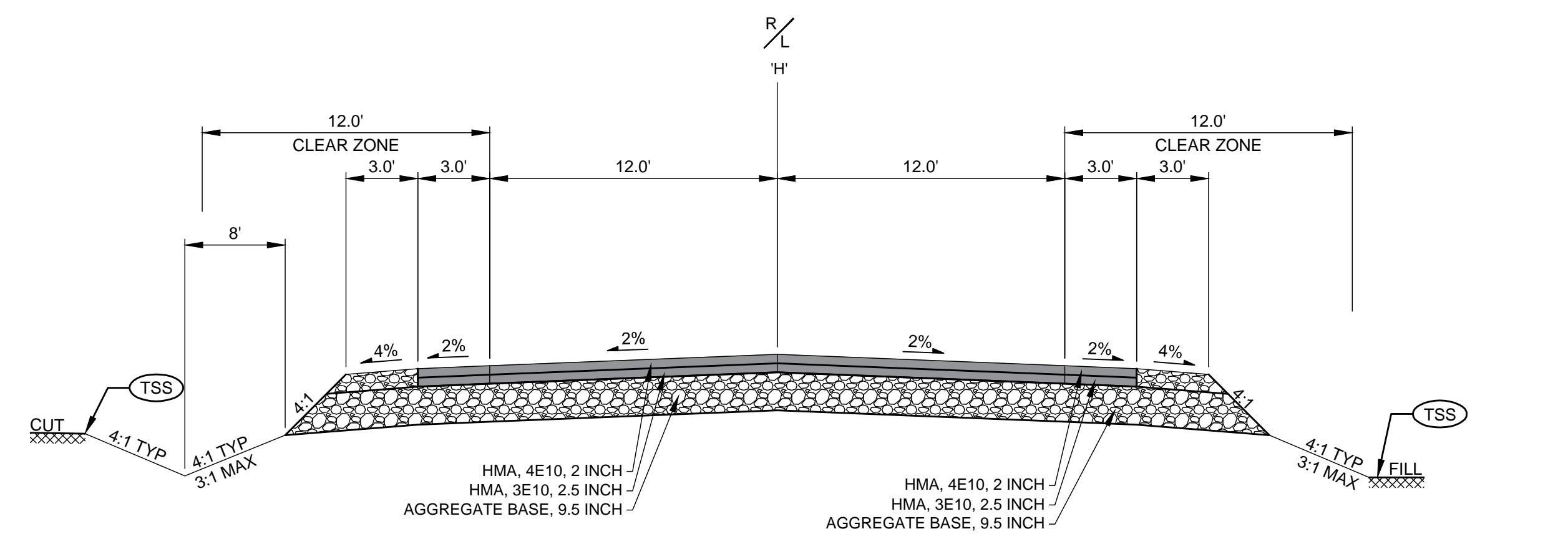
1 ROAD PROPOSED SECTION - STA. 105+10'EX' - 105+95'EX'
 NOT TO SCALE ALIGNMENT CL



2 ROAD PROPOSED SECTION - STA. 106+50'EX' - 107+50'EX'
 NOT TO SCALE ALIGNMENT CL



3 ROAD PROPOSED SECTION - STA. 8+00 - 9+70
 NOT TO SCALE ALIGNMENT H



4 ROAD PROPOSED SECTION - STA. 113+75 - 122+50
 NOT TO SCALE ALIGNMENT CL

(TSS) TOPSOIL SURFACE, SALV. 4 INCH FERTILIZER, CHEMICAL NUTRIENT CI A MULCH BLANKET SEEDING, MIXTURE THM



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**MICHIGAN AIR NATIONAL GUARD
 CONSTRUCT MAIN BASE ENTRANCE**
 BATTLE CREEK ANGB
 BATTLE CREEK, MICHIGAN

ISSUED 02/17/21 B3 FINAL

ANG Project No: MBMV099170
 M&H No.: 3141900-113782.01
 DATE: FEBRUARY 17, 2021
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SHEET CONTENTS
 TYPICAL SECTION

SHEET NO.

C-302

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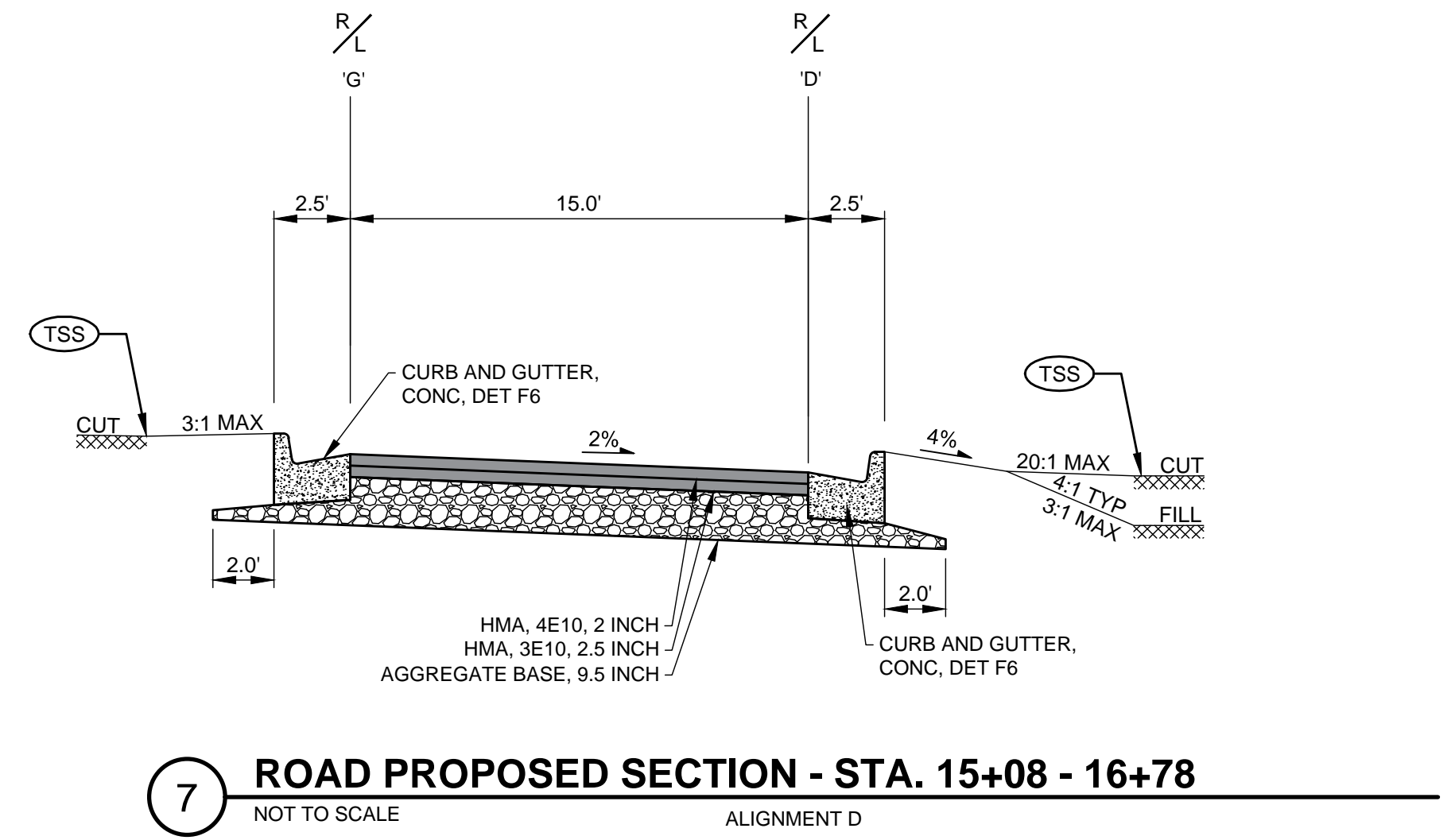
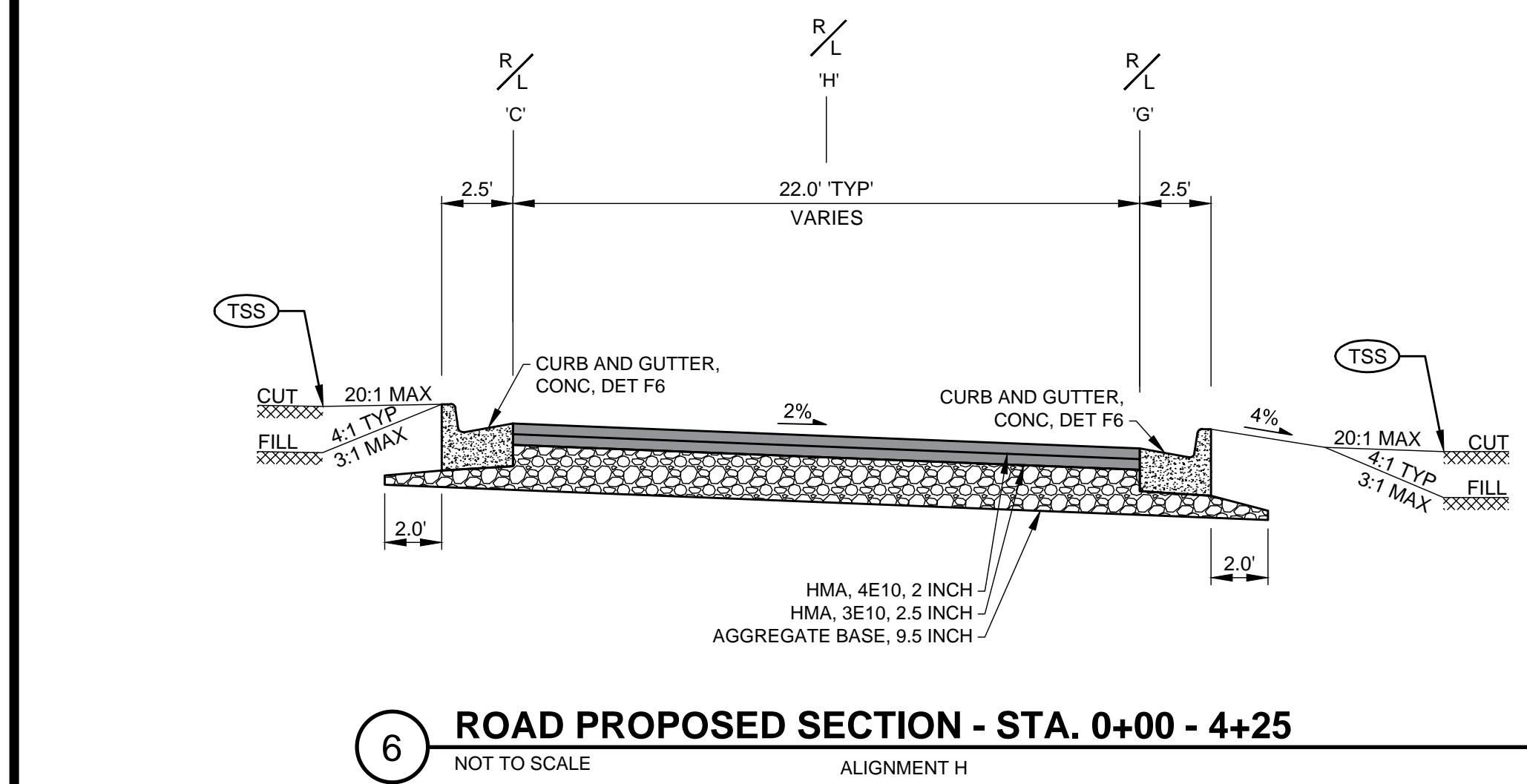
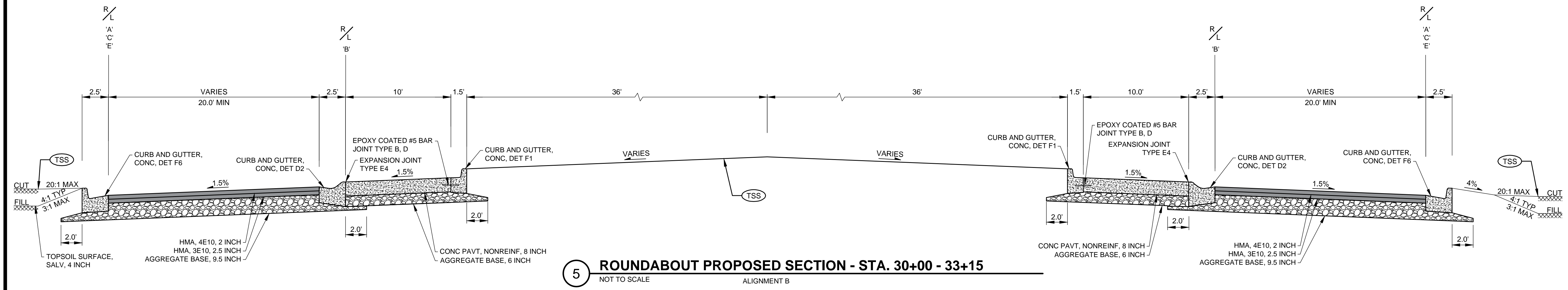
**MICHIGAN AIR NATIONAL GUARD
CONSTRUCT MAIN BASE ENTRANCE**
 BATTLE CREEK ANGB
 BATTLE CREEK, MICHIGAN

ISSUED
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ANG Project No: MBMV099170
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SHEET CONTENTS
TYPICAL SECTIONS

SHEET NO.



(TSS) TOPSOIL SURFACE, SALV, 4 INCH
 FERTILIZER, CHEMICAL NUTRIENT CI A
 MULCH BLANKET
 SEEDING, MIXTURE THM

- NOTES:
- SEE STANDARD DRAWINGS FOR CURB DIMENSIONS
 - REMOVE EXISTING TOPSOIL UNDER NEW PAVEMENT SECTIONS TO OBTAIN REQUIRED SUBGRADE ELEVATION

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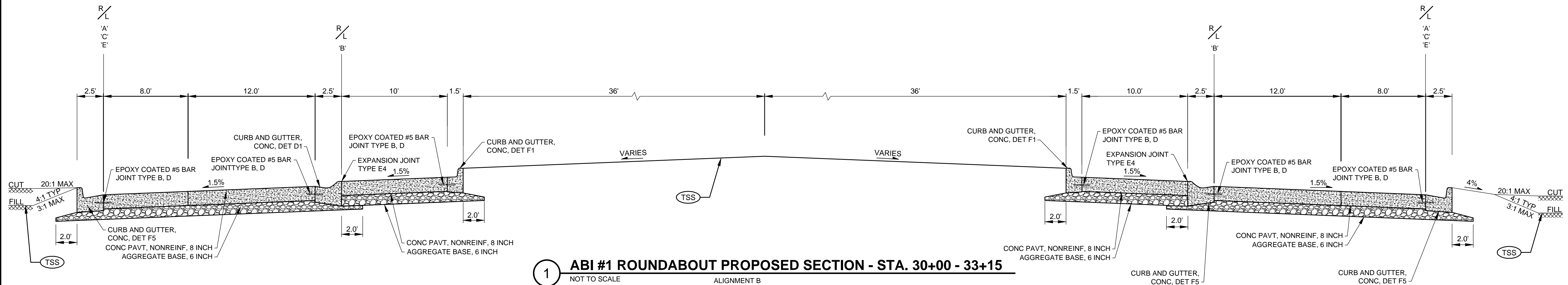
**MICHIGAN AIR NATIONAL GUARD
CONSTRUCT MAIN BASE ENTRANCE**
 BATTLE CREEK ANGB
 BATTLE CREEK, MICHIGAN

ISSUED 02/17/21 B3 FINAL

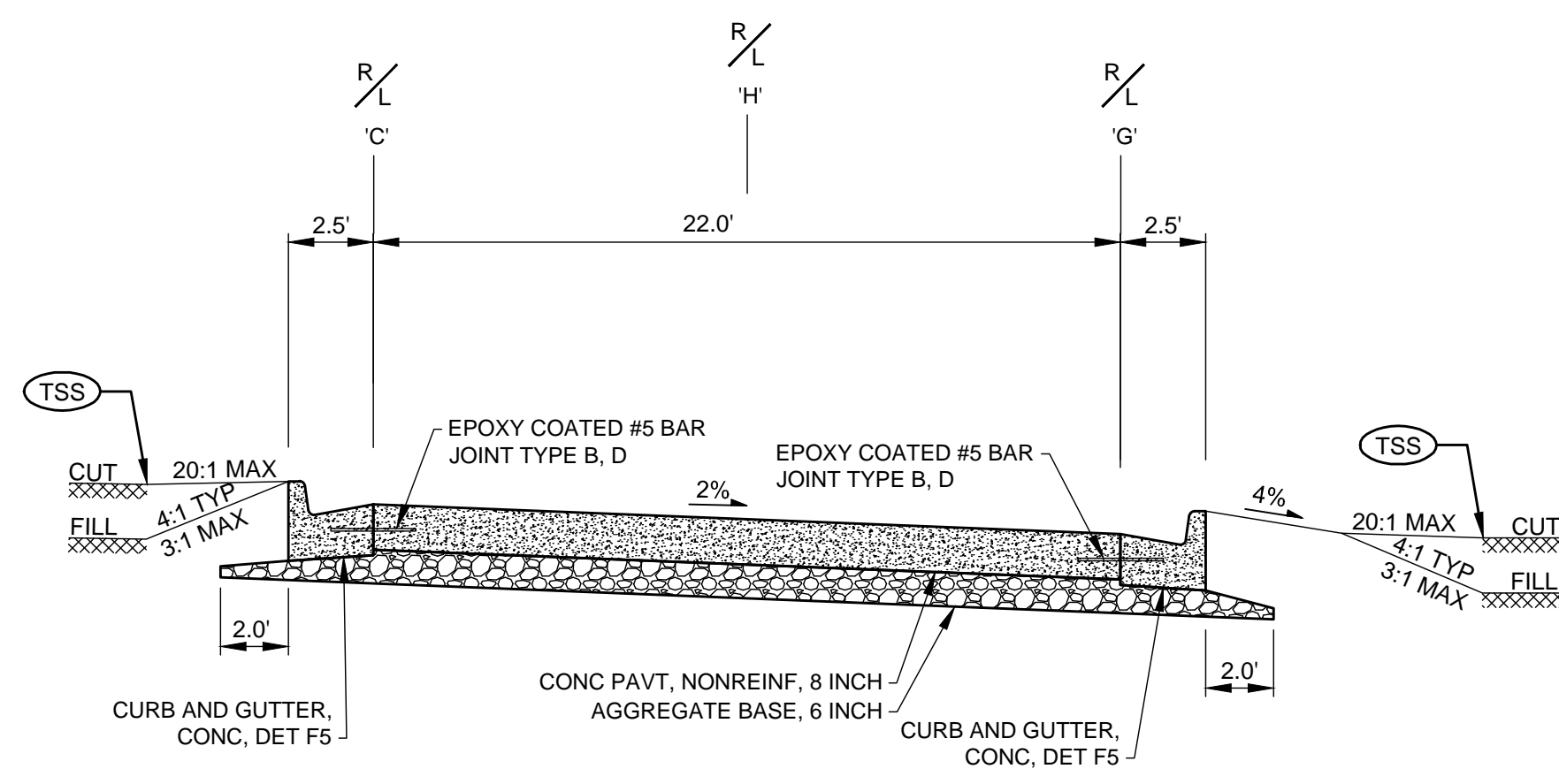
ANG Project No: MBMV099170
 M&H No: 3141900-113782.01
 DATE: FEBRUARY 17, 2021
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 DRAWN BY: DAY
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SHEET CONTENTS
 TYPICAL SECTIONS
 ABI #1

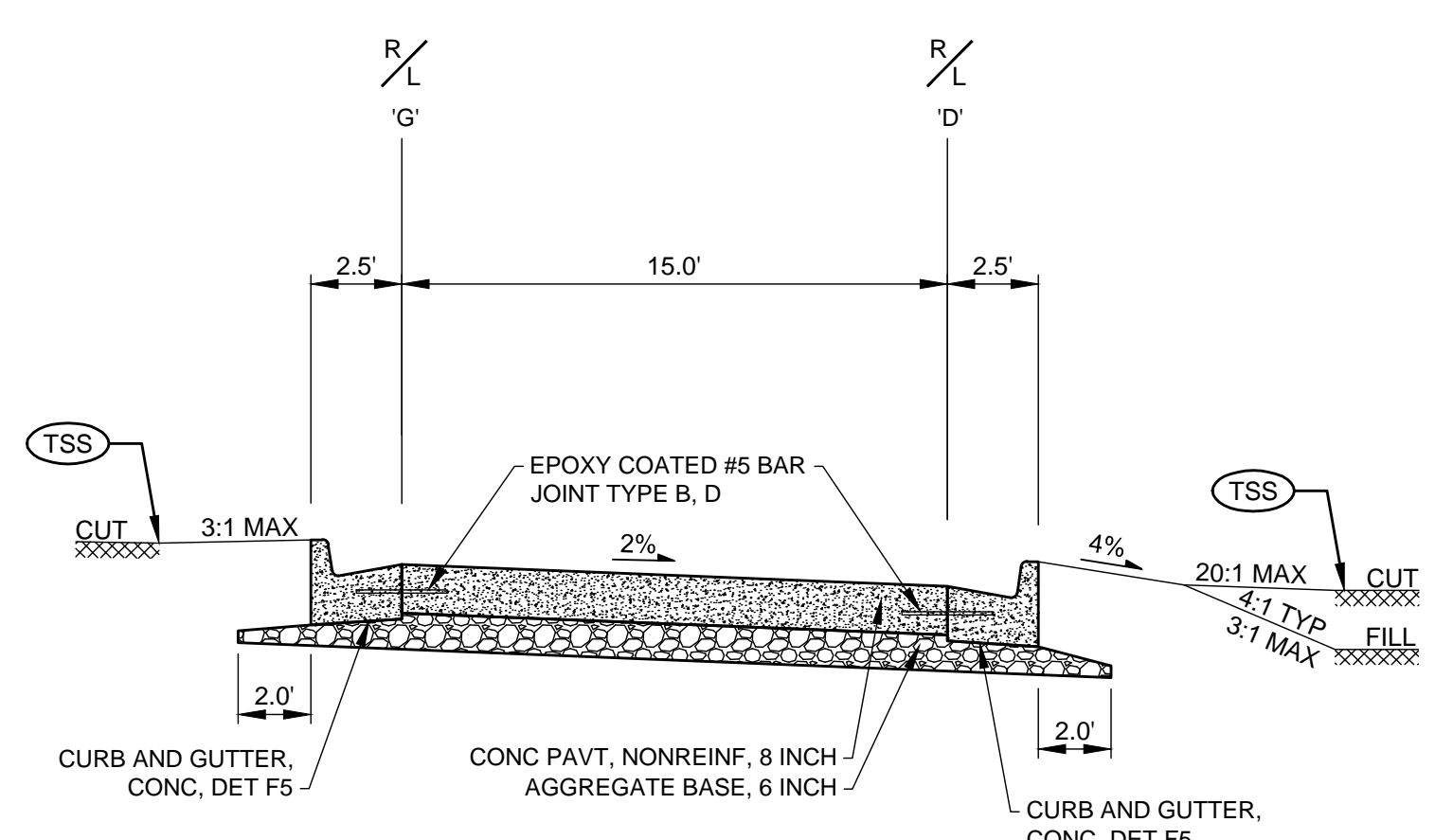
SHEET NO.



1 ABI #1 ROUNDABOUT PROPOSED SECTION - STA. 30+00 - 33+15
 NOT TO SCALE ALIGNMENT B



2 ABI #1 ROAD PROPOSED SECTION - STA. 0+00 - 4+25
 NOT TO SCALE ALIGNMENT H



3 ABI #1 ROAD PROPOSED SECTION - STA. 15+08 - 16+78
 NOT TO SCALE ALIGNMENT H

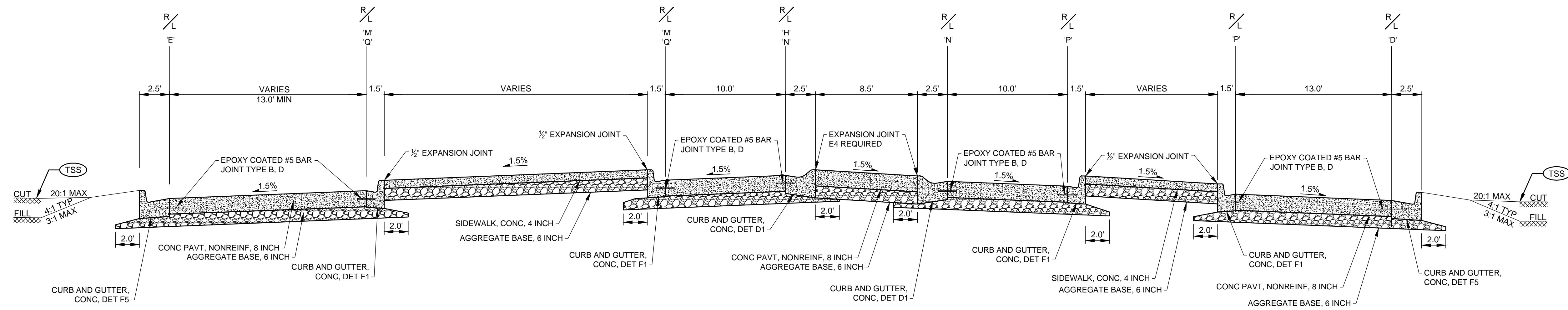
(TSS) TOPSOIL SURFACE, SALV. 4 INCH FERTILIZER, CHEMICAL NUTRIENT CI A MULCH BLANKET SEEDING, MIXTURE THM

NOTES:
 1. SEE STANDARD DRAWINGS FOR CURB DIMENSIONS
 2. REMOVE EXISTING TOPSOIL UNDER NEW PAVEMENT SECTIONS TO OBTAIN REQUIRED SUBGRADE ELEVATION

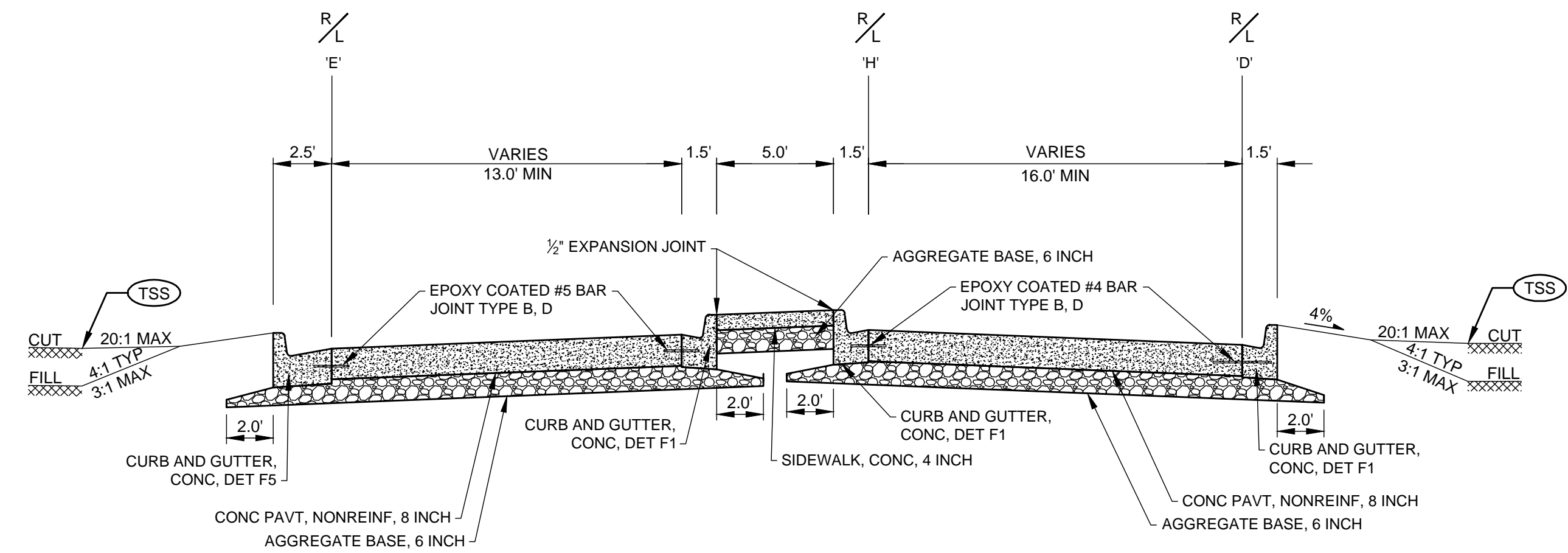
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1 ABI #2 ROAD PROPOSED SECTION - STA. 106+50 - 107+50
NOT TO SCALE ALIGNMENT CL



2 ABI #2 ROAD PROPOSED SECTION - STA. 8+00 - 9+70
NOT TO SCALE ALIGNMENT H

(TSS) TOPSOIL SURFACE, SALV, 4 INCH FERTILIZER, CHEMICAL NUTRIENT C1 A MULCH BLANKET SEEDING, MIXTURE THM

- NOTES:**
1. SEE STANDARD DRAWINGS FOR CURB DIMENSIONS
 2. REMOVE EXISTING TOPSOIL UNDER NEW PAVEMENT SECTIONS TO OBTAIN REQUIRED SUBGRADE ELEVATION

MICHIGAN AIR NATIONAL GUARD
CONSTRUCT MAIN BASE ENTRANCE
 BATTLE CREEK ANGB
 BATTLE CREEK, MICHIGAN

ISSUED 02/17/21 B3 FINAL

ANG Project No: MBMV099170
 M&H No: 3141900-113782.01
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SHEET CONTENTS
 TYPICAL SECTIONS
 ABI #2

SHEET NO.

C-305

NOTES:
 ALL POINTS ARE TO EDGE OF PAVEMENT, EDGE OF LANE OR FLANGE LINE OF CURB, GUTTER, AND CURB AND GUTTER UNLESS OTHERWISE NOTED. POINTS ARE LOCATED AT 25' INTERVALS RELATIVE TO STATION POINTS. SEE CROSS SECTIONS AND ALIGNMENT DETAILS FOR MORE INFORMATION. POINTS AT CURVES ARE AT THE PC, MID AND PT.

THE CONTRACTOR WILL PROVIDE A COMPREHENSIVE PAVING & JOINTING LAYOUT. LONGITUDINAL JOINTS WILL BE AS SHOWN IN THE TYPICAL SECTION & STANDARD DETAIL R-41-H AND HAVE A DESIGNATION OF CP OR EZ. EXPANSION JOINT (E4) WILL BE USED BETWEEN CURB & GUTTER AND MOUNTABLE PAVED ISLANDS AS SHOWN IN TYPICAL SECTIONS.

IMPROVEMENTS TO THE INTERSECTION OF SKYLINE DRIVE AND HILL BRADY ROAD ARE CURRENTLY BEING PLANNED BY THE CITY OF BATTLE CREEK. THE CONCEPT SHOWN IS FAVORED BY THE CITY AND DESIGN OF THE PUBLIC IMPROVEMENTS WILL POSSIBLY BEGIN DURING PHASE B2 OF THE ENTRY CONTROL FACILITY DESIGN. THE DESIGN OF THE ENTRY CONTROL FACILITY CONNECTION TO THE PUBLIC ROAD WILL BE MODIFIED TO COORDINATE WITH THE IMPROVEMENTS PLANNED BY THE CITY.

HILL BRADY RD.

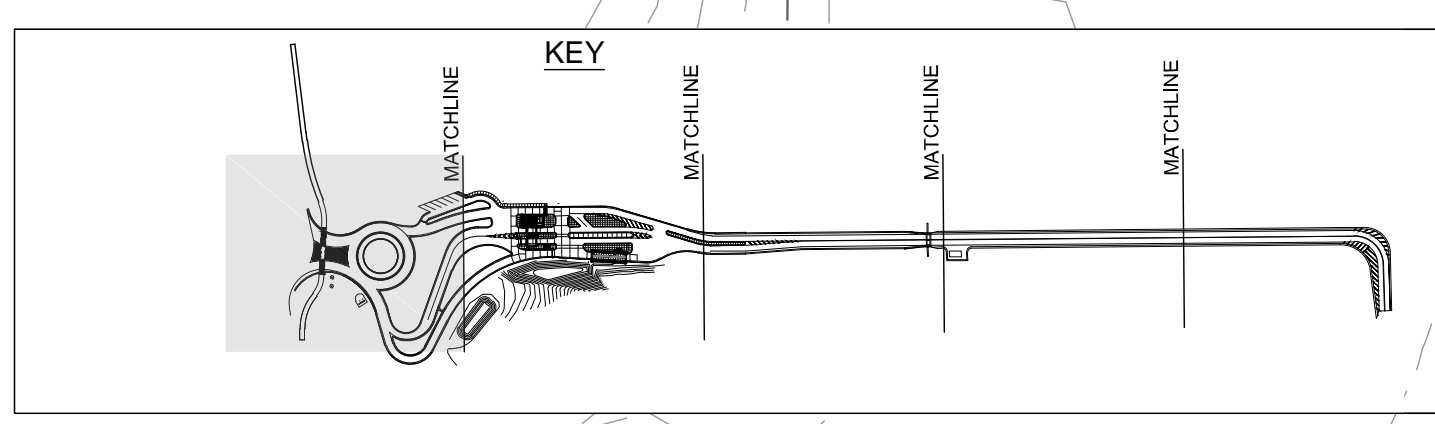
SKYLINE DR.

LOGISTICS DR.

MATCHLINE SEE SHEET C-313

- LEGEND
- + A867 SPOT ELEVATION
 - 1.50% SURFACE GRADE
 - FLOW ARROW

SEE SHEETS C-312 FOR POINT INFORMATION



Mead & Hunt

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**MICHIGAN AIR NATIONAL GUARD
 CONSTRUCT MAIN BASE ENTRANCE**

BATTLE CREEK ANGB
 BATTLE CREEK, MICHIGAN

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SHEET CONTENTS
 PAVING DETAILS

SHEET NO.

C-311

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