



Letter of Transmittal

Date: 6-02-2026
Petition Map: 26-42

Type of Petition

- | | | |
|---|--|--|
| ☐ Outright Vacation | ☐ Dedication | ☐ Berm Use |
| ☐ Conversion to Easement | ☒ Encroachment | ☐ Temporary Closing |

Review Status

The above petition has been received and reviewed by this office. Please see below for the review status as marked.

- | | |
|--|--|
| ☒ Approved Subject to
Attached Provisions | ☐ Revise and Resubmit |
| ☐ Not Approved | |

Additional Comments (if applicable):

DWSD records indicate there is DWSD assets in the public right-of-way requested for encroachment. DWSD has no objections to the requested encroachment subject to the attached provision for encroachment is followed.
--

Attached is the DWSD provision related to the petition.

	Name	Title	Signature	Date
Reviewed by:	Mohammad Siddique	Engineer	<i>Mohammad Siddique</i>	6-02-2026
Approved by:	Syed Ali	Engineering Manager	<i>Mohammad Siddique</i> For Syed Ali	6-02-2026

PROVISIONS FOR ENCROACHMENT

1. By approval of this petition the Detroit Water and Sewerage Department (DWSD) does not waive any of its rights to its facilities located in the right of way, and at all time, DWSD, its agents or employees, shall have the right to enter upon the right of way to maintain, repair, alter, service, inspect, or install its facilities. All costs incident to the damaging, dismantling, demolishing, removal and replacement of structures or other improvements herein permitted and incurred in gaining access to DWSD's facilities for maintenance, repairing, alteration, servicing, or inspection by DWSD shall be borne by the petitioner. All costs associated with gaining access to DWSD's facilities, which could normally be expected had the petitioner not encroached into the right of way shall be borne by DWSD.
2. All construction performed under this petition shall not be commenced until after five (5) days written notice to DWSD. Seventy-two (72) hour notice shall also be provided in accordance with P.A. 53 1974, as amended, utilizing the MISS DIG one call system.
3. Construction under this petition is subject to inspection and approval by DWSD. The cost of such inspection shall, at the discretion of DWSD, be borne by the petitioner.
4. DWSD prohibits the use of heavy construction equipment or the storage of building material directly over or near DWSD facilities. DWSD also prohibits the use of cranes and balls or hydraulic rams for pavement removal where DWSD facilities are involved. If the water main or sewer facilities are broken or damaged as a result of any action on the part of the contractor, the contractor shall be liable for all costs incidental to the repair of such broken or damaged water main or sewer facilities. If DWSD facilities located within the street shall break or be damaged as the result of any action on the part of the petitioner, then in such event the petitioner agrees to be liable for all costs incident to the repair, replacement or relocation of such broken or damaged DWSD facilities.
5. The petitioner shall hold DWSD harmless for any damage to the encroaching device constructed or installed under this petition, which may be caused by the failure of DWSD's facilities.
6. If at any time in the future the petitioner shall request removal and / or relocation of DWSD's facilities in the street being encroached upon, the petitioner agrees to pay all costs for such removal and/or relocation.
7. Prior to construction, Easement Encroachment Permit (EEP) should be obtained and the insurance required by the EEP should not expire until after completion of the construction.
8. For any proposed work that involves DWSD water mains and/or sewers, an approval and a permit is required from DWSD before commencement of work.
9. It is DWSD's requirement that any proposed utility crossing DWSD water mains and/or sewers perpendicularly must maintain a minimum of 18 inches vertical clearance. Any proposed utility running adjacent to DWSD water mains and/or sewers must maintain a minimum of 10 feet lateral clearance including any conduit and/or manholes walls. No utility is allowed to run along the top of the water main or/or sewer.
10. It is DWSD's requirement that no encroachment has a vertical clearance of less than 16 feet from the ground surface over DWSD water mains and/or sewers.

Cover Letter

6 May 2026

City of Detroit Right-of-Way Management,

Metronet would like to place a fiber optic cabinet in the Right-of-Way along Rosa Parks Blvd. in Detroit. This cabinet will be used to regenerate the light signal within the transport fiber.

Thank you.

Eugene Hunton
Sr. Facility Manager & General Contractor
812-916-1452
eugene.hunton@metronet.com

1400 Rosa Parks Blvd



5/14/2026

Wastewater Mains - GLWA

GLWA Gravity Main

Transmission System Mains - GLWA

Active Water Main

Transmission System Valves - GLWA

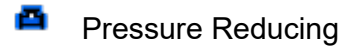
Blowoff



Gate



Manual Air



Pressure Reducing



Tapping Sleeve

Distribution System Main

Active

Abandoned

Wastewater Catch Basin

Wastewater Manhole

Wastewater Fitting

Bend/Slope Change

Blind Connection

Bulkhead/Cap

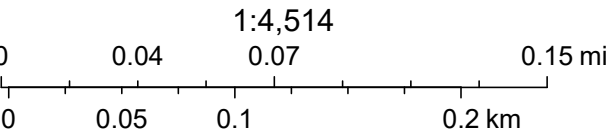
Material/Size Change

Crown/Main Point

Wastewater GravityMain

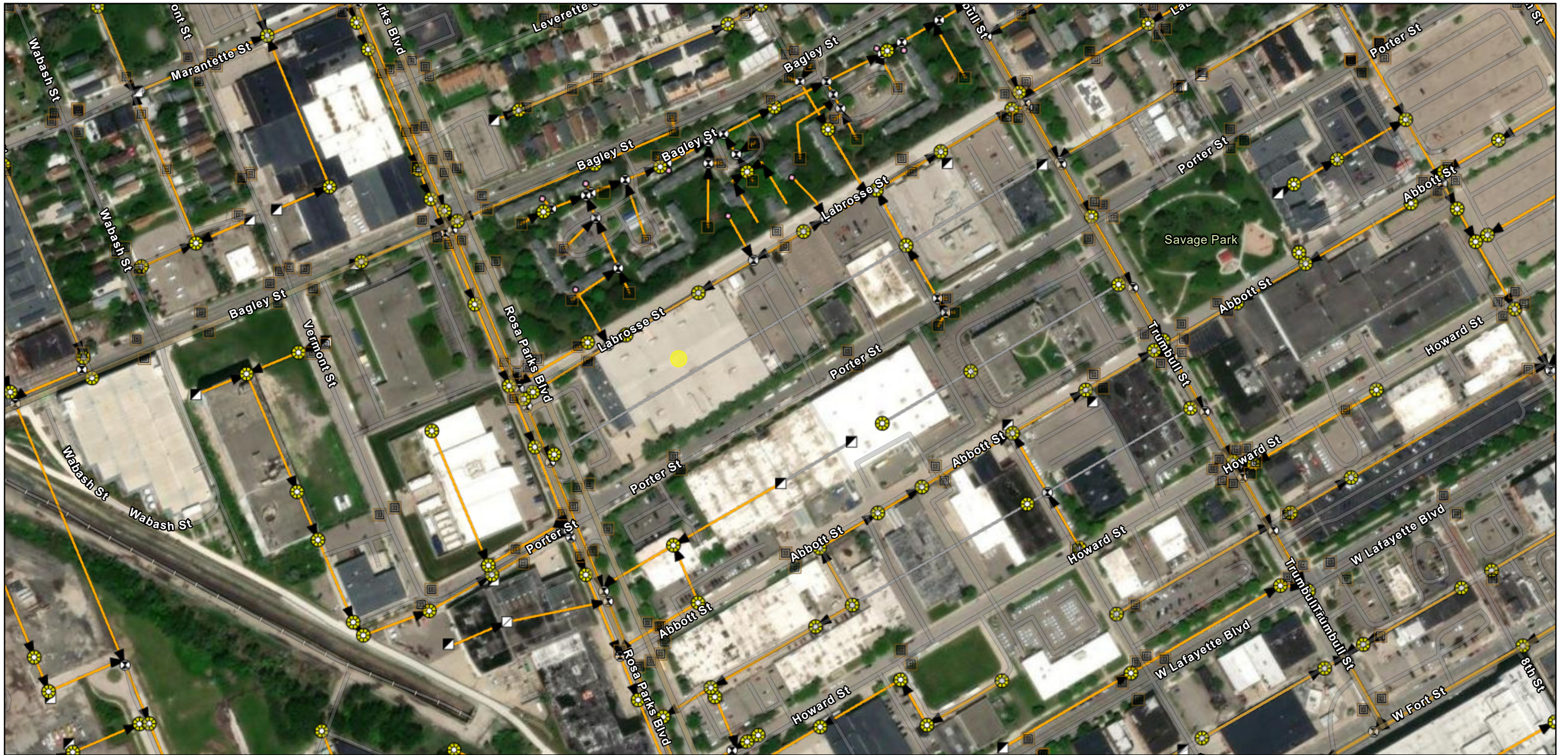
Active

Abandoned/Inactive/Retired



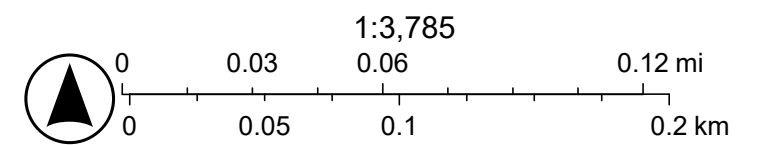
Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, GLWA, DWSD, Vantor

1400 Rosa Parks Blvd



5/14/2026, 11:19:09 AM

-  CoD Base Units Geocoder
  Wastewater Catch Basin
  Wastewater Manhole
  Wastewater Fitting
  Blind Connection
  Bulkhead/Cap
  Material/Size Change
  Crown/Main Point
  Wastewater Flow Direction
  Wastewater Gravity Main
  Active
  Abandoned/Inactive/Retired
  Wastewater Sensors (GLWA)
  Precipitation Gauge



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Vantor

1400 Rosa Parks Blvd



5/14/2026, 11:19:25 AM

CoD Base Units Geocoder

Transmission System Fitting (GLWA)



Cross



Horizontal Bend



Reducer



Tap



Tee

Transmission System Valve (GLWA)



Blowoff



Gate



Tapping Sleeve

Transmission System Main (GLWA)



Active Water Main

Distribution System Hydrant (DWSD)



DWSD

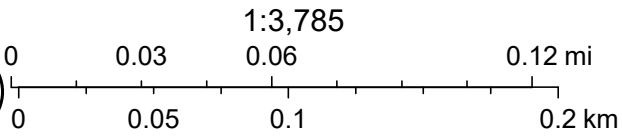
Distribution System Main (DWSD)



Active



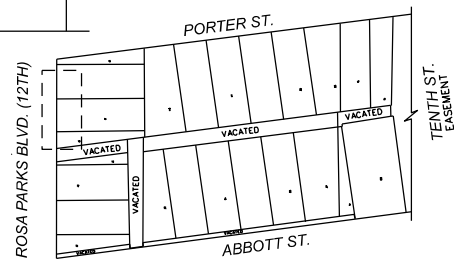
Abandoned



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, DWSD, Vantor







DRAWN BY	LC	REQUEST ENCROACHMENTS INTO ROSA PARKS BLVD. (12TH) BETWEEN PORTER ST. AND ABBOTT ST. ON THE WEST SIDE OF 1661 PORTER ST.	CITY OF DETROIT
DATE	05/18/2026		CITY ENGINEERING DIVISION
CHECKED	AP		MAPS & RECORDS BUREAU
APPROVED	GE		JOB NO. 26-42 DRWG.NO.

METRONET NETWORK CABINET CONSTRUCTION DRAWINGS

metronet

3701 COMMUNICATIONS WAY
EVANSVILLE, IN 47715
812-213-1095

THIS PRINT AND DESIGN ARE THE SOLE PROPERTY OF METRONET TECHNOLOGIES L.C. AND SHALL BE CONSIDERED CONFIDENTIAL. THIS PRINT MAY NOT BE REPRODUCED IN ANY WAY WITHOUT THE WRITTEN CONSENT OF METRONET TECHNOLOGIES L.C. AND SHALL BE RETURNED UPON REQUEST.

4-BAY NETWORK
CABINET
DETROIT, MI

DESIGN ENG: LWW

DRAWN BY: JDF

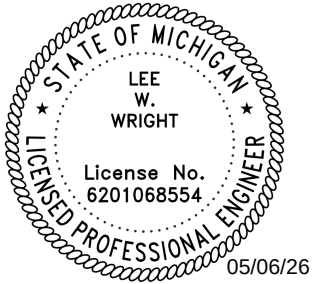
REVIEWED BY: LWW

SUBMITTALS

DATE	DESCRIPTION	REV
5/5/26	PERMITTING	A

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CABINET DETAILS	04-06
ELECTRICAL DETAILS/ GROUNDING PLAN	07
TRAFFIC CONTROL PLANS	08



SCALE: NTS

SITE ADDRESS:
42.325833, -83.068467

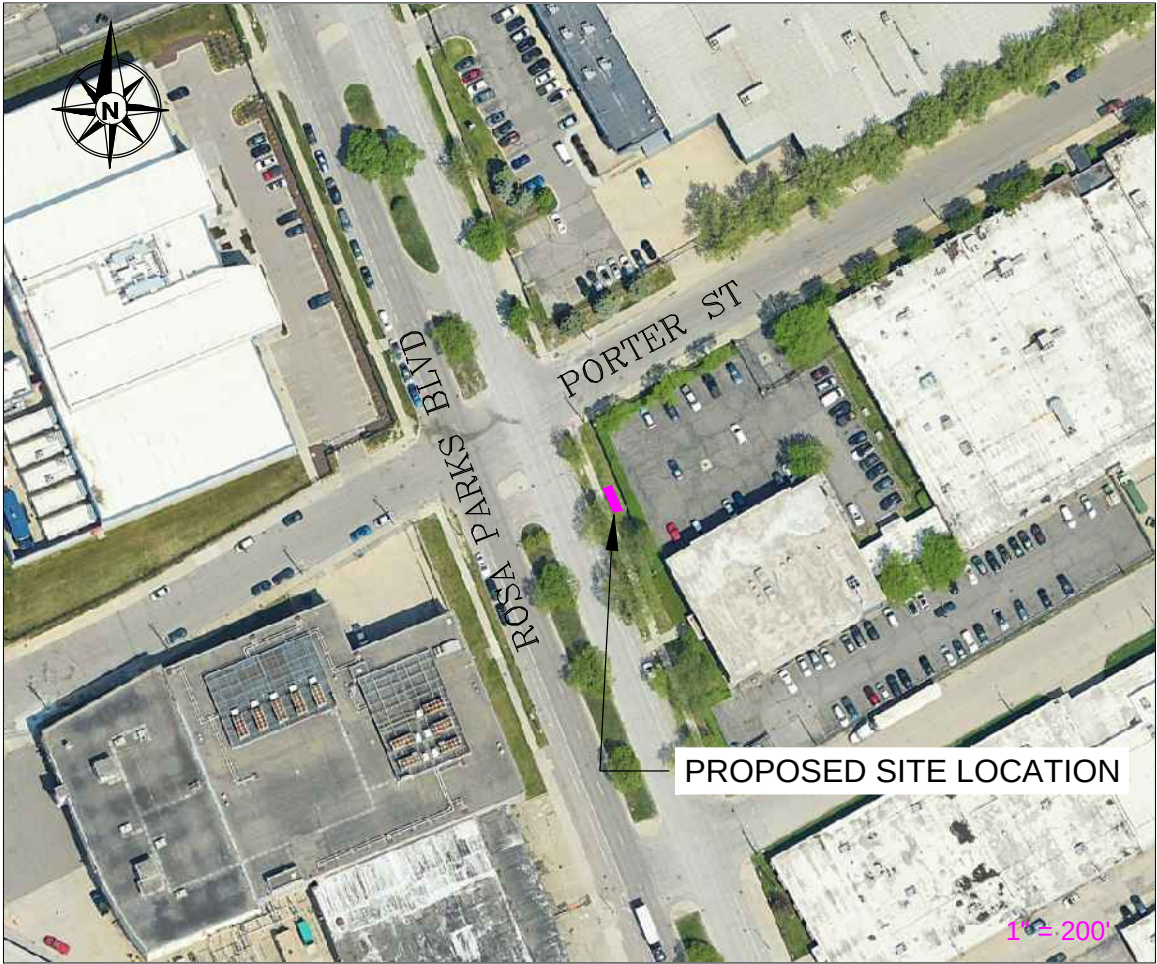
SITE NAME:
DETROIT CABINET

SHEET NAME:
COVER SHEET

SHEET NUMBER:
1

SITE LOCATION MAP

LAT/LONG: 42. 325833, -83.068467



CALL 48 HOURS
BEFORE DIGGING



Know what's below.
Call before you dig.

METRONET CONTACTS:

PROJECT DIRECTOR:

CHRIS DEER
334-805-7607
CHRISTOPHER.DEER@METRONET.COM

ENGINEER:

LEE W. WRIGHT, P.E.
METRONET
11880 COLLEGE BLVD
SUITE 100
OVERLAND PARK, KS 66210
(810)-333-2303
LEE.WRIGHT@METRONET.COM



NOTE: CONTRACTOR TO LOCATE/VERIFY ALL UTILITIES IN THE CABINET AREA BEFORE CONSTRUCTION CAN BEGIN

EXISTING UTILITY POLE

PROPOSED 3" DIAMETER CONDUIT FOR POWER FROM PROPOSED METER TO EXISTING UTILITY POLE, TO BE LOCATED 36" BELOW GRADE.

SEE SHEET 4 FOR DETAILS

EXISTING FENCE

LEGEND

PROPERTY LINE	
EDGE OF PAVEMENT	
CENTERLINE	
SEWER LINE	
FIBER CONDUIT	
ELECTRICAL CONDUIT	
WATER LINE	
GAS LINE	

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4-BAY NETWORK
CABINET
DETROIT, MI

DESIGN ENG: LWW

DRAWN BY: JDF

REVIEWED BY: LWW

SUBMITTALS		
DATE	DESCRIPTION	REV
5/5/26	PERMITTING	A



SCALE:	1" = 32'
SITE ADDRESS:	42.325833, -83.068467
SITE NAME:	DETROIT CABINET
SHEET NAME:	SITE PLAN
SHEET NUMBER:	2



DIMENSIONS FOR CABINET

SEE SHEET 4
FOR DETAILS

NOTE: CONTRACTOR TO LOCATE/VERIFY
ALL UTILITIES IN THE CABINET AREA
BEFORE CONSTRUCTION CAN BEGIN

HEIGHT OF 5'-2.5"

DEPTH OF 8"
CONCRETE
AND 12"
DEPTH
GRAVEL BASE

DEPTH OF 3' BELOW GRADE
WITH 40" CONCRETE DEPTH
AND SURROUNDING THE
BOLLARD WITH CONCRETE
(SEE SHEET 5)

HEIGHT OF 4'-1"

DIMENSIONS FOR BOLLARDS

LEGEND

PROPERTY LINE		P/L
EDGE OF PAVEMENT		E.O.P
CENTERLINE		
SEWER LINE		
FIBER CONDUIT		
ELECTRICAL CONDUIT		
WATER LINE		
GAS LINE		

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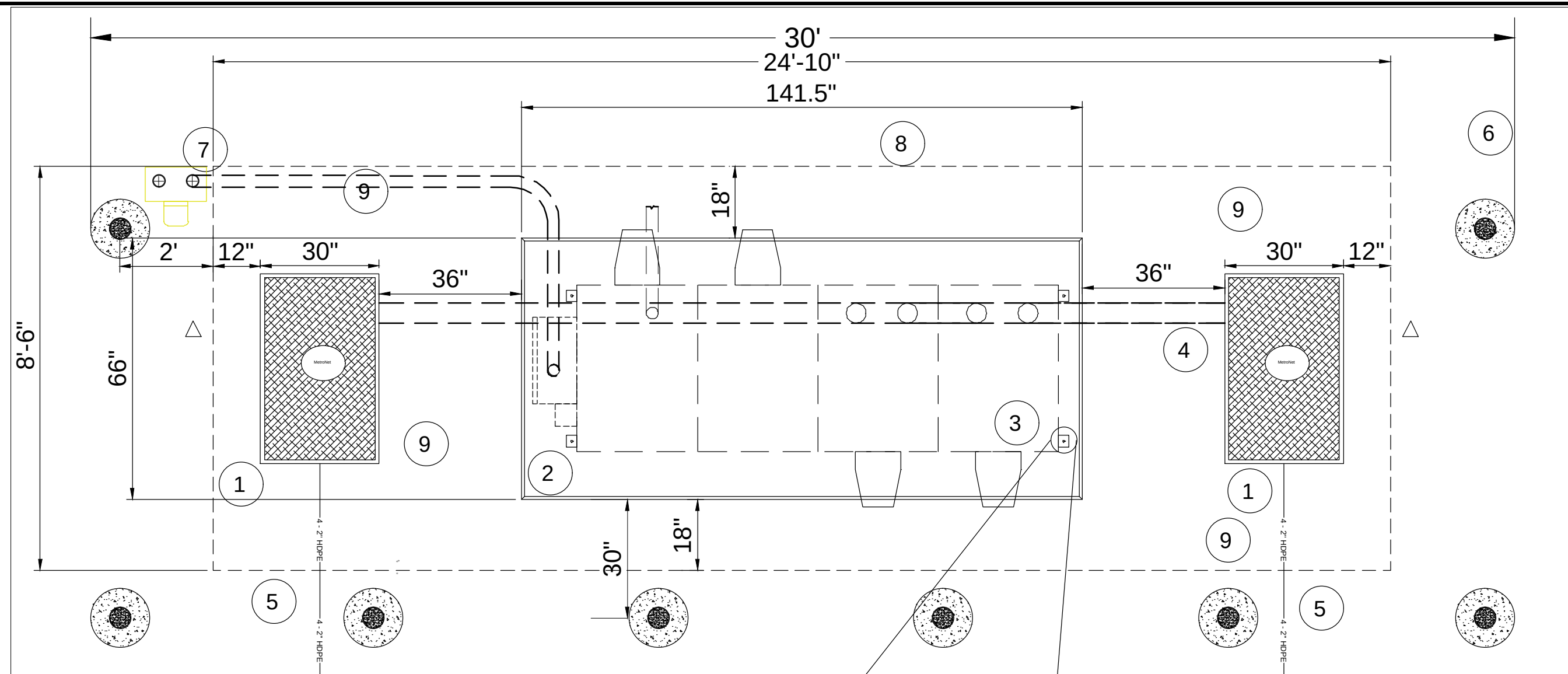
4-BAY NETWORK
CABINET
DETROIT, MI

DESIGN ENG:	LWW
DRAWN BY:	JDF
REVIEWED BY:	LWW

SUBMITTALS		
DATE	DESCRIPTION	REV
5/5/26	PERMITTING	A

STATE OF MICHIGAN
LEE W. WRIGHT
License No. 620106554
REGISTERED PROFESSIONAL ENGINEER
05/06/26

SCALE:	3" = 32'
SITE ADDRESS:	42.325833, -83.068467
SITE NAME:	DETROIT CABINET
SHEET NAME:	SITE PLAN
SHEET NUMBER:	3



NOTES:

1. 30"W X 48"L X 36"D Handhole
2. Cabinet Concrete Pad 141.5"L X 66"W
3. Cabinet Footprint 121"L X 42"W X 62.5"H
4. 4" SCH 40 PVC Conduit
5. 4 Ea. 2" HDPE Duct
6. Meter Pedestal (ELECTRICAL)
7. 2" SCH 40 PVC Elect. Conduit-UL Listed
8. Ground Field Extents
9. 6" ID DIA x 7'L Steel Pipe Bollard, Concrete Filled. (As Required, Site Specific)

INSTALLATION NOTE:
DRILL AND INSTALL WEDGE ANCHORS
DURING PLACEMENT OF THE CABINET
ONTO THE PAD TO INSURE
PLACEMENT ACCURACY.

CONCRETE FASTENING TYPICAL
1/2" STAINLESS STEEL DROP IN
ANCHOR - 1/2" NUT & FLAT WASHER

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4-BAY NETWORK CABINET DETROIT, MI

DESIGN ENG: LWW

DRAWN BY: JDF

REVIEWED BY: LWW

SUBMITTALS		
DATE	DESCRIPTION	REV
5/5/26	PERMITTING	A



SCALE: NTS

SITE ADDRESS:
42.325833, -83.068467

SITE NAME:
DETROIT CABINET

SHEET NAME:
CABINET DETAILS

SHEET NUMBER:

3

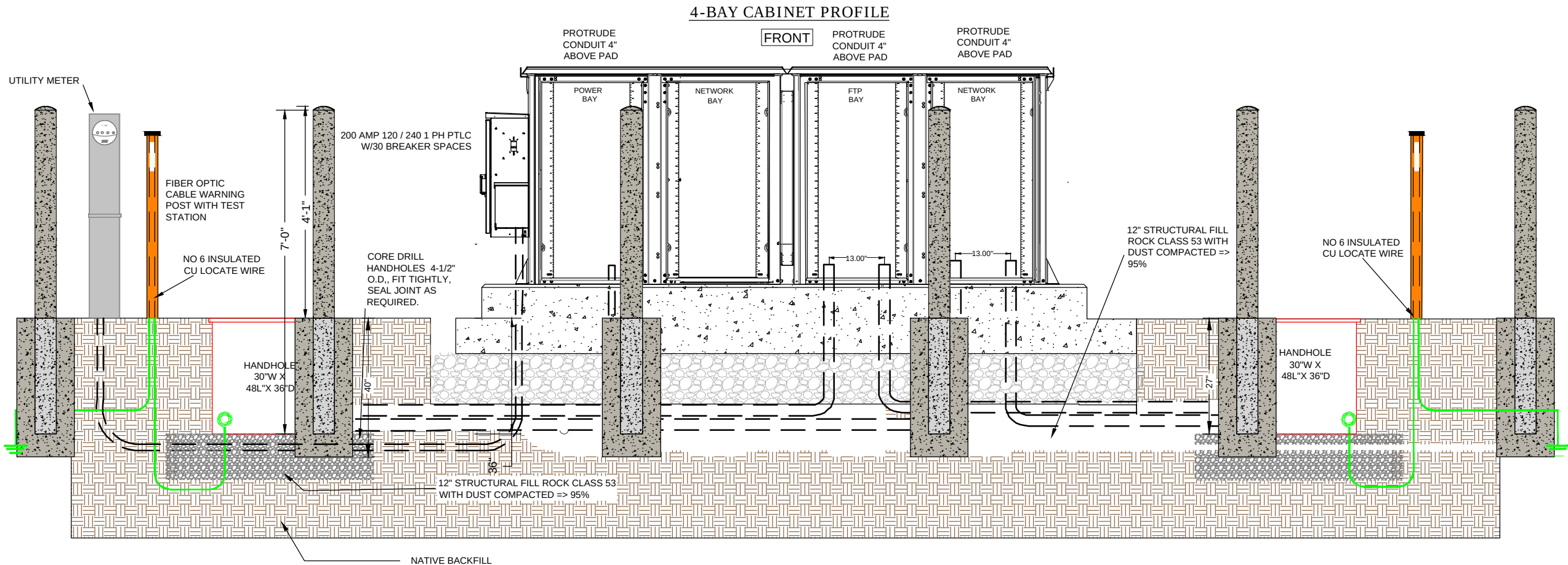
BOLLARDS - OPTIONAL AS SITE DICTATES
PIPE BOLLARD SPECIFICATIONS:

CARBON STEEL PIPE SHALL BE 6"ID DIA X 7'L, CONFORMING TO SCHEDULE 40 ASTM A 53 GRADES A AND B.

- 1. PIPE SHALL BE FILLED WITH A MIN 3,000 PSI CONCRETE. A DOMED CAP 1" HIGH SHALL BE HAND FORMED TO PROVIDE WATER RUNOFF. PIPE WILL BE 4' ABOVE GRAD AND 3' BELOW GRADE.
- 2. CONCRETE FOOTER SHALL BE A MIN 3,000 PSI CONCRETE, 40"D X 15" DIA.
- 3. PIPE SHALL BE PROVIDED FACTORY PAINTED WITH RUST INHIBITOR PRIMER FINISH. THE FINAL FINISH SHALL BE PAINTED YELLOW.

GENERAL NOTE:

- A.) A FINAL INSPECTION OF THE SITE CONFIRMING THE SITE IS RESTORED AND CLEANED UP SHALL BE COMPLETED BY THE PROJECT MANAGER PRIOR TO FINAL METRONET ACCEPTANCE OF THE WORK.



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4-BAY NETWORK
CABINET
DETROIT, MI

DESIGN ENG: LWW

DRAWN BY: JDF

REVIEWED BY: LWW

SUBMITTALS		
DATE	DESCRIPTION	REV
5/5/26	PERMITTING	A



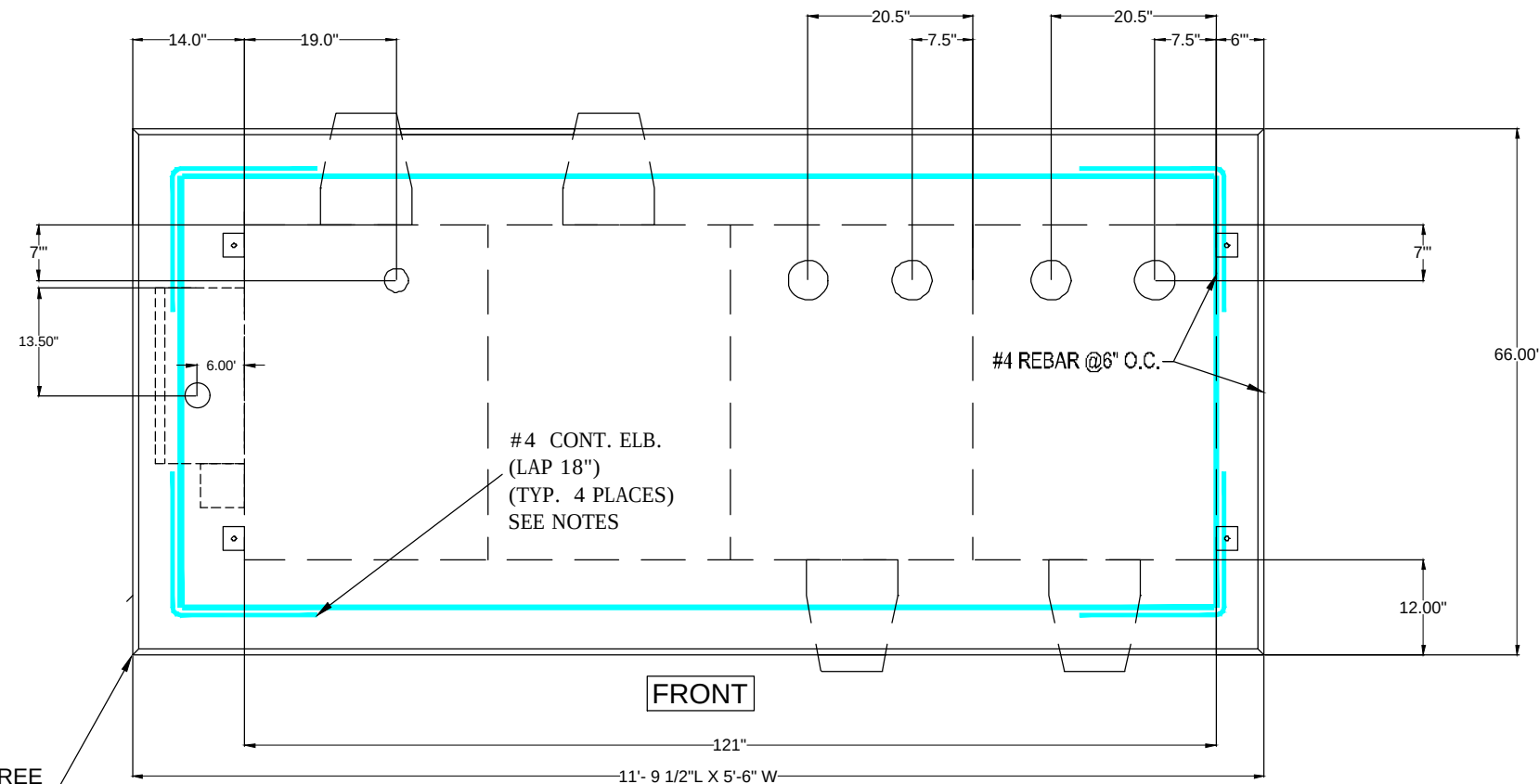
SCALE: NTS

SITE ADDRESS:
42.325833, -83.068467

SITE NAME:
DETROIT CABINET

SHEET NAME:
CABINET DETAILS

SHEET NUMBER:
5



3/4" 45 DEGREE
CHAMFER
EDGE ALL SIDES

12" DEPTH CLASS 53
CRUSHED ROCK, WITH
DUST COMPACTED => 95%

8" REVEAL
ABOVE
FINAL
GRADE

NETWORK 4-BAY CABINET CONCRETE PAD CONSTRUCTION

SPECIFICATIONS AND NOTES

SITE:

STRUCTURAL FILL SHALL BE MECHANICALLY COMPACTED IN 6" LIFTS TO 95% OR GREATER PROCTOR (ASTM D-698). WITH A COMPACTION TEST RUN ON EACH LIFT (1 TEST PER 248 SF). STRUCTURAL FILL SHALL EXTEND A MINIMUM OF 12" BEYOND THE PAD PERIMETER. ALL SUBGRADE WITHIN THE SLAB AREA SHALL BE COMPACTED TO 95% STANDARD PROCTOR. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE ON THE SITE AT ALL TIMES. ALL EXCAVATION SHALL BE FREE OF WATER BEFORE PLACING CONCRETE.

CONCRETE CODE:

ALL CONCRETE SHALL BE MIXED, FORMED, FINISHED, CURED, AND PROTECTED IN CONFORMANCE WITH THE RECOMMENDATIONS OF THE PORTLAND CEMENT ASSOCIATION (PCA) AND THE AMERICAN CONCRETE INSTITUTE (ACI)

MIX:

PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE II. MIX SHALL HAVE 20% (BY CEMENTITIOUS MATERIAL WEIGHT) FLY ASH CONFORMING TO ASTM C618, CLASS F. MIX SHALL BE FIBER REINFORCED CONFORMING TO ASTM A820-06 - STANDARD SPECIFICATIONS FOR COMMERCIAL FIBER-REINFORCED CONCRETE. AGGREGATE SIZE SHALL BE 1/2" NOMINAL AND SHALL CONFORM TO ASTM C33. MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 4000 PSI. MAXIMUM SLUMP SHALL BE 5.5 INCHES. NO STRENGTH ACCELERATING ADDITIVES WITHOUT APPROVAL OF ENGINEER.

REINFORCEMENT STEEL:

REINFORCING SHALL BE DEFORMED BILLET-STEEL BARS CONFORMING TO ASTM A615, GRADE 60. REINFORCEMENT SHALL BE COLD BENT AND SHALL NOT BE WELDED. REINFORCEMENT SHALL BE CLEANED SO AS TO BE FREE OF OIL, DIRT, LOOSE MILL SCALE, AND LOOSE RUST OR OTHER COATINGS THAT WOULD DESTROY OR REDUCE THE BOND.

REINFORCEMENT CONTINUITY:

UNLESS SHOWN OTHERWISE ON THE DESIGN DRAWINGS, ALL REINFORCEMENT SHALL BE PLACED CONTINUOUS BY LAP SPlicing, UNLESS DETAILED OTHERWISE ON DESIGN DRAWINGS. REINFORCEMENT SHALL BE ACCURATELY PLACED AS PER ACI 301 AND SECURELY TIGHTLY TIED INTO POSITION WITH NO. 16 GA. ANNEALED WIRE NO GREATER THAN 2" INTERVALS ALONG THE LAP SPlicing.

PLACEMENT AND CURE:

PRODUCTION OF CONCRETE SHALL COMPLY WITH CHAPTER 7 OF ACI 301. PLACEMENT OF CONCRETE SHALL BE IN ACCORDANCE WITH CHAPTER 8 OF ACI 301. DURING HOT WEATHER, THE TEMPERATURE OF THE CONCRETE, AS PLACED, SHALL NOT EXCEED 90° F. DURING COLD WEATHER, CONCRETE SHALL BE MAINTAINED ABOVE 50° F FOR AT LEAST 7 DAYS AFTER PLACEMENT. HOT AND COLD WEATHER CONCRETE PLACEMENT SHALL BE IN ACCORDANCE WITH ACI 305 AND ACI 306. FRESHLY DEPOSITED CONCRETE SHALL BE PROTECTED FROM PREMATURE DRYING AND EXCESSIVELY HOT OR COLD TEMPERATURES AND SHALL BE MAINTAINED WITH MINIMAL MOISTURE LOSS AT A RELATIVELY CONSTANT TEMPERATURE FOR THE PERIOD OF TIME NECESSARY FOR THE HYDRATION OF THE CEMENT AND PROPER HARDENING OF THE CONCRETE. ALL NEWLY PLACED CONCRETE SHALL BE KEPT MOIST FOR A MINIMUM OF 7 DAYS. CURING SHALL CONFORM TO THE REQUIREMENTS IN CHAPTER 12, ACI 301.

FINISHING:

TIE HOLES, HONEYCOMBS, AND OTHER CONCRETE SURFACE DEFECTS SHALL BE REPAIRED IN ACCORDANCE WITH CHAPTER 9 OF ACI 301 AS SOON AS PRACTICABLE AFTER FORM REMOVAL. THE REPAIR SHALL BE PERFORMED IN SUCH A MANNER AS TO NOT DELAY, INTERFERE WITH, OR IMPAIR THE PROPER CURING OF THE FRESH CONCRETE. THE ENGINEER SHALL BE NOTIFIED BEFORE PROCEEDING WITH REPAIR IF THE DEFECT IS GREATER THAN 5 INCHES DEEP AND LARGER THAN 200 SQUARE INCHES IN SURFACE AREA, OR IF THE DEPTH IS OVER 1/3 THE THICKNESS OF THE MEMBER AND GREATER THAN 6 INCHES IN ANY OTHER DIRECTION.

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4-BAY NETWORK CABINET DETROIT, MI

DESIGN ENG: LWW

DRAWN BY: JDF

REVIEWED BY: LWW

SUBMITTALS

DATE	DESCRIPTION	REV
5/5/26	PERMITTING	A



SCALE: NTS

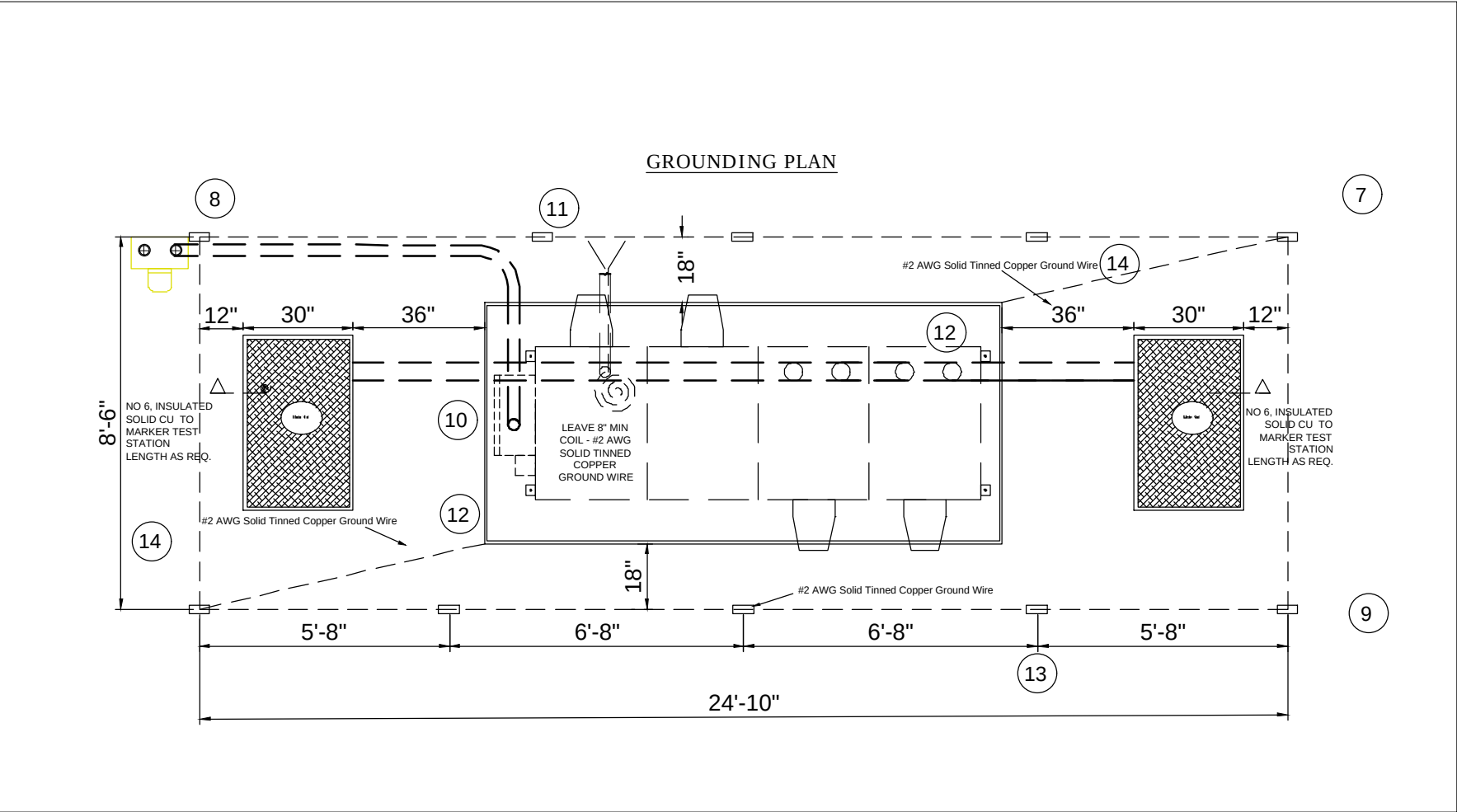
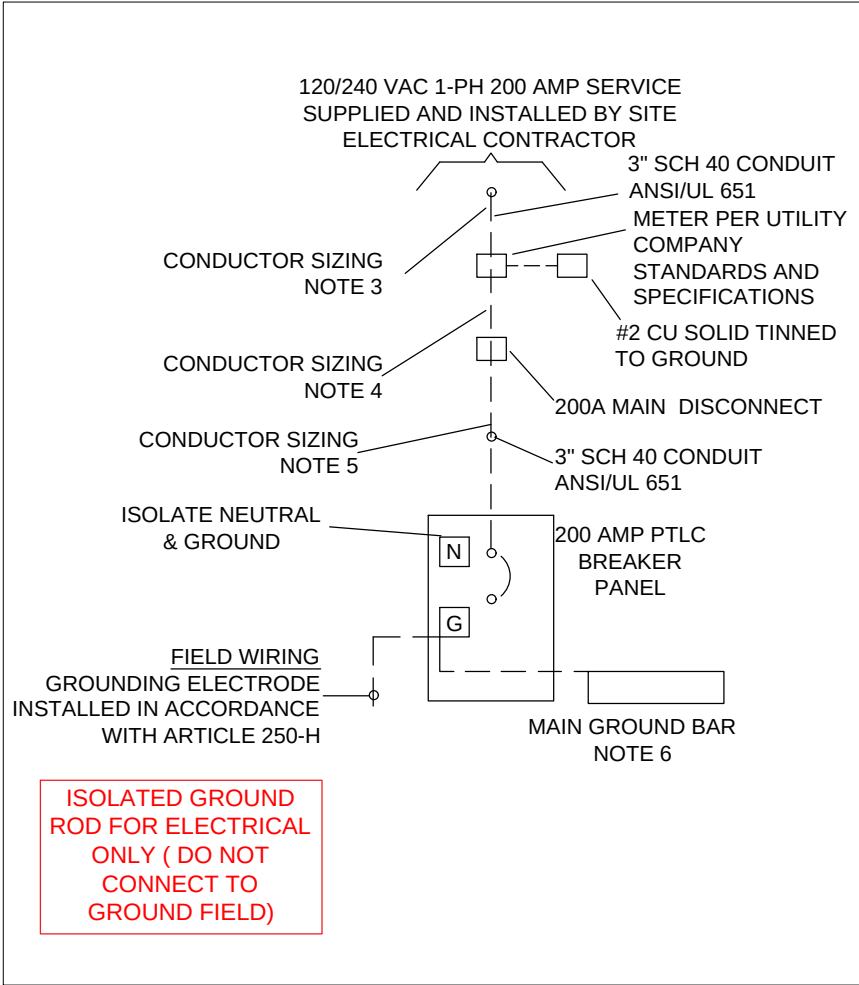
SITE ADDRESS:
42.325833, -83.068467

SITE NAME:
DETROIT CABINET

SHEET NAME:
CABINET DETAILS

SHEET NUMBER:

6



NOTES:

1. ----- DASHED LINES DENOTE FIELD WORK.
2. ISOLATE NEUTRAL & GROUND
3. FEEDER CONDUCTORS (2) 3/0 CU THHN AND (1) 2/0 CU THHN NEUTRAL IN ACCORDANCE WITH NEC (ARTICLE 215.2)
4. FEEDER CONDUCTORS (2) 3/0 CU THHN AND (1) 2/0 CU THHN NEUTRAL IN ACCORDANCE WITH NEC (ARTICLE 215.2).
5. FEEDER CONDUCTORS (2) 3/0 CU THHN, (1) 2/0 CU THHN NEUTRAL AND #4 CU THHN GROUND IN ACCORDANCE WITH NEC (ARTICLE 215.2)
6. #2 THHN BOND BETWEEN BREAKER GROUND AND MAIN GROUND BAR
7. ALL LUGS THAT HOLD MORE THAN ONE WIRE SHALL BE LISTED FOR MULTI-BARRELL CONNECTIONS.
8. ALL CONDUCTORS SHALL BE COPPER.

9. 120/240 VAC, 200AMP, SINGLE PHASE PEDESTAL COORDINATE INSTALLATION WITH LOCAL ELECTRIC UTILITY.
10. 3" SCHEDULE 40 CONDUIT, ANSI/UL 651. MEETING OR OR EXCEEDING THE REQUIREMENTS OF NEMA TC-2
11. COPPER CLAD STEEL GROUND RODS, 5/8" X 8', 10 EA.
12. INTERSECT 200 AMP 120/240 SINGLE PHASE POWER TRANSFER LOAD CENTER (PTLC)
13. ALL GROUND RING CONDUCTORS AND GROUND ROD CONNECTIONS SHALL BE EXOTHERMIC WELDED.
14. UFER GROUND-EXOTHERMIC WELD TO NO 4 REBAR, COORDINATE WITH CONCRETE CONTRACTOR.
15. GROUND RING CONDUCTORS AND TOP OF GROUND RODS SHALL BE BURIED A MINIMUM DEPTH OF 18".
16. HANDHOLE GROUND ROD ISOLATED FROM GROUND FIELD

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4-BAY NETWORK
CABINET
DETROIT, MI

DESIGN ENG: LWW

DRAWN BY: JDF

REVIEWED BY: LWW

SUBMITTALS		
DATE	DESCRIPTION	REV
5/5/26	PERMITTING	A



SCALE:	NTS
SITE ADDRESS:	42.325833, -83.068467
SITE NAME:	DETROIT CABINET
SHEET NAME:	CABINET ELECTRICAL DETAILS/ GROUNDING PLAN
SHEET NUMBER:	7

DESIGN ENG: LWW

DRAWN BY: JDF

REVIEWED BY: LWW

SUBMITTALS

DATE	DESCRIPTION	REV
5/5/26	PERMITTING	A



SCALE: NTS

SITE ADDRESS:
42.325833, -83.068467

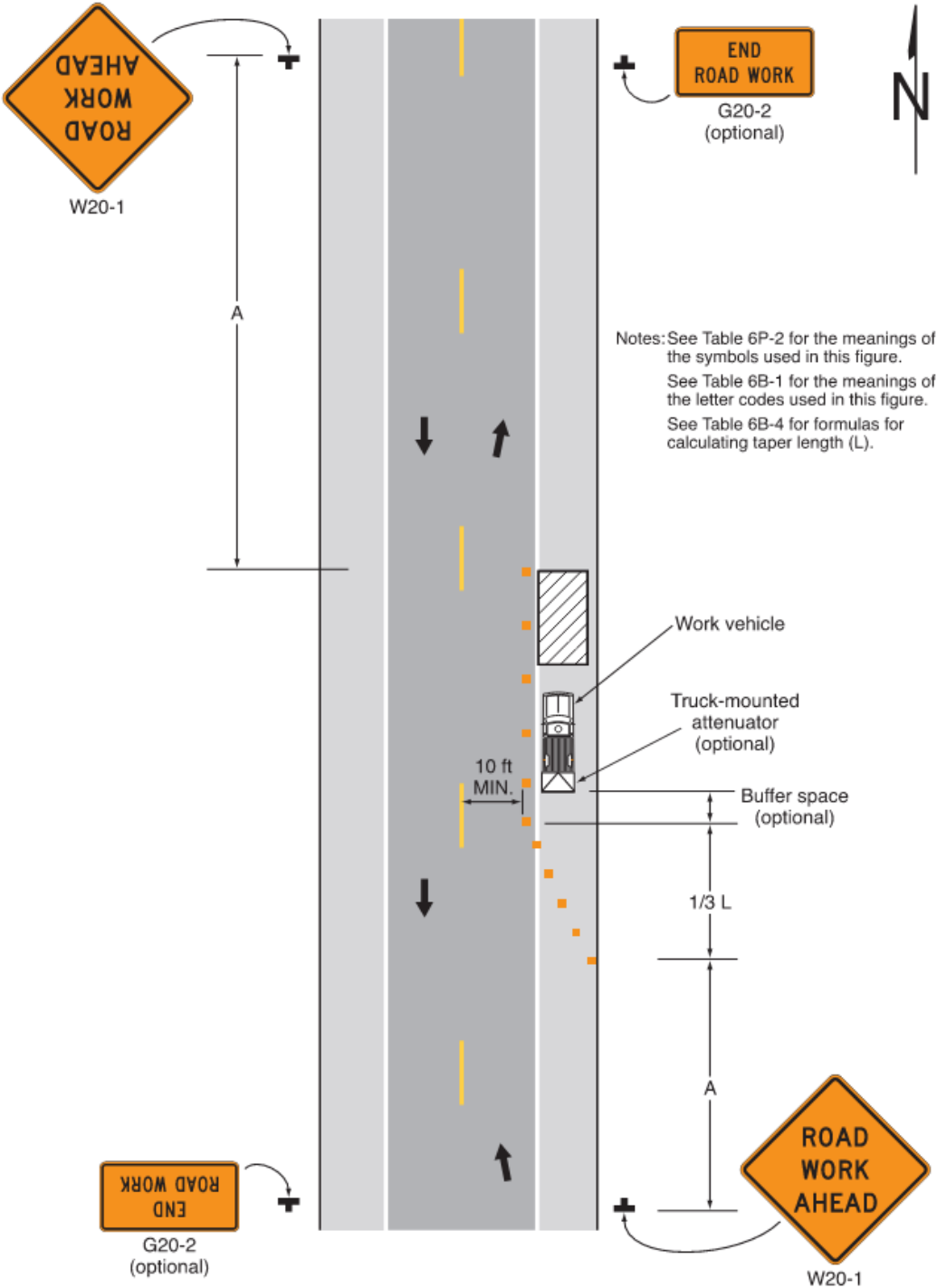
SITE NAME:
DETROIT CABINET

SHEET NAME:
TRAFFIC CONTROL PLANS

SHEET NUMBER:

8

Figure 6P-6. Shoulder Work with Minor Encroachment (TA-6)



Typical Application 6

Notes for Figure 6P-7—Typical Application 7
Road Closure with a Diversion

Support:

1. Signs and object markers are shown for one direction of travel only.

Standard:

2. Devices similar to those depicted shall be placed for the opposite direction of travel.
3. Pavement markings no longer applicable to the traffic pattern of the roadway shall be removed or obliterated before any new traffic patterns are open to traffic.
4. Temporary traffic barriers and end treatments shall be crashworthy.

Guidance:

5. If the tangent distance along the temporary diversion is more than 600 feet, a Reverse Curve sign, left first, should be used instead of the Double Reverse Curve sign, and a second Reverse Curve sign, right first, should be placed in advance of the second reverse curve back to the original alignment.
6. When the tangent section of the diversion is more than 600 feet, and the diversion has sharp curves with recommended speeds of 30 mph or less, Reverse Turn signs should be used.
7. Where the temporary pavement and old pavement are different colors, the temporary pavement should start on the tangent of the existing pavement and end on the tangent of the existing pavement.
8. Delineators or channelizing devices should be used along the diversion.

Option:

9. Flashing warning lights and/or flags may be used to call attention to the warning signs.
10. On sharp curves, large arrow signs may be used in addition to other advance warning signs.

METRONET NETWORK CABINET CONSTRUCTION DRAWINGS

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4-BAY NETWORK
CABINET
DETROIT, MI

DESIGN ENG: LWW

DRAWN BY: JDF

REVIEWED BY: LWW

SUBMITTALS		
DATE	DESCRIPTION	REV
5/5/26	PERMITTING	A



SCALE: NTS

SITE ADDRESS:
42.325833, -83.068467

SITE NAME:
DETROIT CABINET

SHEET NAME:
COVER SHEET

SHEET NUMBER:
1

SITE LOCATION MAP
LAT/LONG: 42. 325833, -83.068467

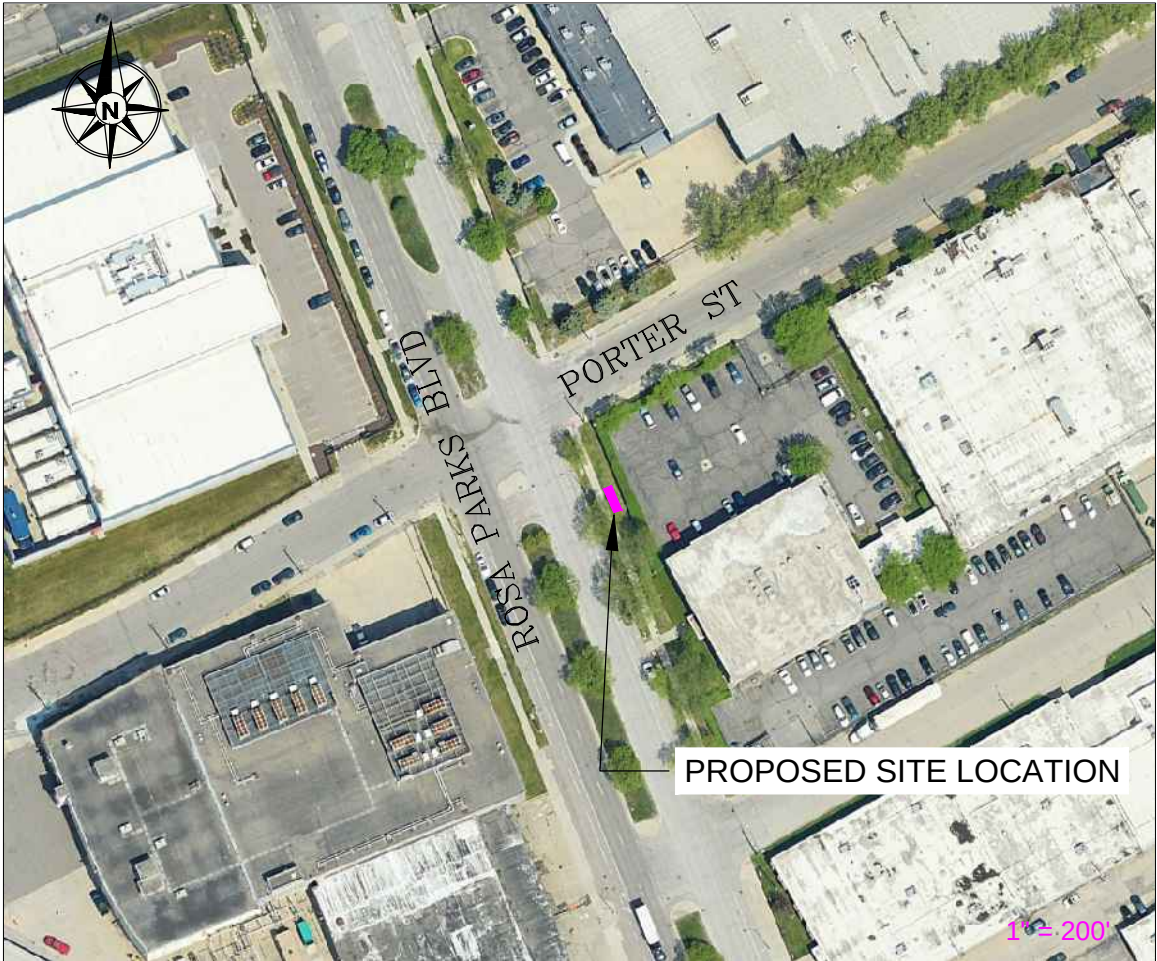


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TRAFFIC CONTROL PLANS	08

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BEFORE DIGGING



Know what's below.
Call before you dig.

METRONET CONTACTS:

PROJECT DIRECTOR:

CHRIS DEER
334-805-7607
CHRISTOPHER.DEER@METRONET.COM

ENGINEER:

LEE W. WRIGHT, P.E.
METRONET
11880 COLLEGE BLVD
SUITE 100
OVERLAND PARK, KS 66210
(810)-333-2303
LEE.WRIGHT@METRONET.COM



NOTE: CONTRACTOR TO LOCATE/VERIFY ALL UTILITIES IN THE CABINET AREA BEFORE CONSTRUCTION CAN BEGIN

EXISTING UTILITY POLE

PROPOSED 3" DIAMETER CONDUIT FOR POWER FROM PROPOSED METER TO EXISTING UTILITY POLE, TO BE LOCATED 36" BELOW GRADE.

SEE SHEET 4 FOR DETAILS

EXISTING FENCE

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DETROIT, MI

DESIGN ENG: LWW

DRAWN BY: JDF

REVIEWED BY: LWW

SUBMITTALS		
DATE	DESCRIPTION	REV
5/5/26	PERMITTING	A



LEGEND

PROPERTY LINE	P/L
EDGE OF PAVEMENT	E.O.P
CENTERLINE	- - -
SEWER LINE	- - - - -
FIBER CONDUIT	- - - - -
ELECTRICAL CONDUIT	- - - - -
WATER LINE	- - - - -
GAS LINE	- - - - -

SCALE:	1" = 32'
SITE ADDRESS:	42.325833, -83.068467
SITE NAME:	DETROIT CABINET
SHEET NAME:	SITE PLAN
SHEET NUMBER:	2



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4-BAY NETWORK
CABINET
DETROIT, MI

DESIGN ENG: LWW

DRAWN BY: JDF

REVIEWED BY: LWW

SUBMITTALS		
DATE	DESCRIPTION	REV
5/5/26	PERMITTING	A

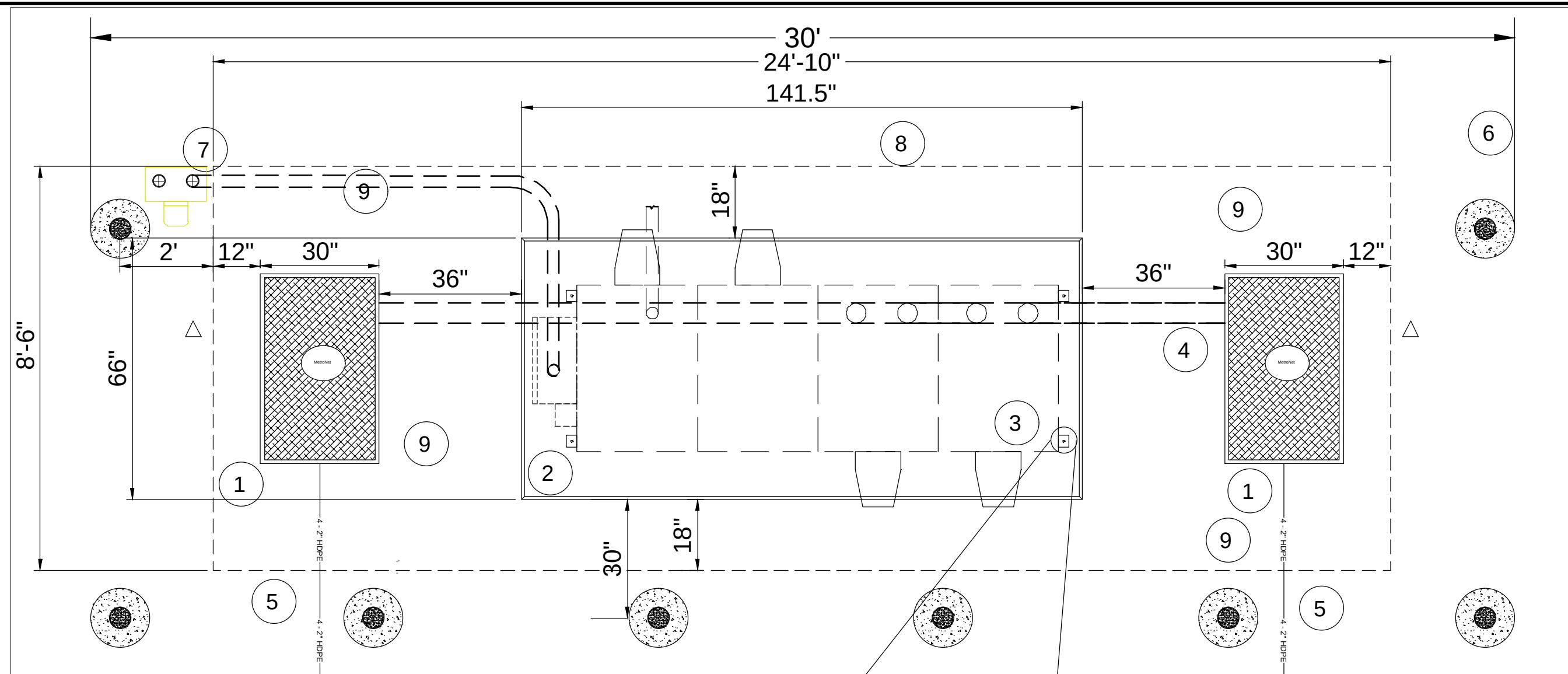
SCALE: 3" = 32'

SITE ADDRESS: 42.325833, -83.068467

SITE NAME: DETROIT CABINET

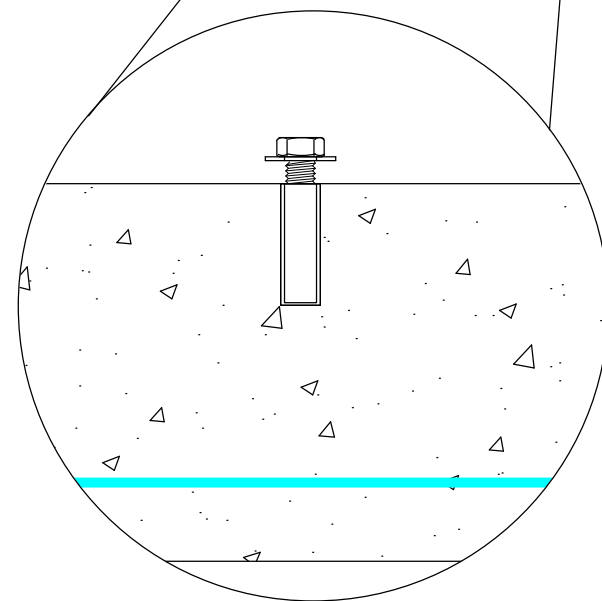
SHEET NAME: SITE PLAN

SHEET NUMBER: 3



NOTES:

1. 30"W X 48"L X 36"D Handhole
2. Cabinet Concrete Pad 141.5"L X 66"W
3. Cabinet Footprint 121"L X 42"W X 62.5"H
4. 4" SCH 40 PVC Conduit
5. 4 Ea. 2" HDPE Duct
6. Meter Pedestal (ELECTRICAL)
7. 2" SCH 40 PVC Elect. Conduit-UL Listed
8. Ground Field Extents
9. 6" ID DIA x 7'L Steel Pipe Bollard, Concrete Filled. (As Required, Site Specific)



CONCRETE FASTENING TYPICAL
1/2" STAINLESS STEEL DROP IN
ANCHOR - 1/2" NUT & FLAT WASHER

INSTALLATION NOTE:

DRILL AND INSTALL WEDGE ANCHORS
DURING PLACEMENT OF THE CABINET
ONTO THE PAD TO INSURE
PLACEMENT ACCURACY.

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4-BAY NETWORK CABINET DETROIT, MI

DESIGN ENG: LWW

DRAWN BY: JDF

REVIEWED BY: LWW

SUBMITTALS		
DATE	DESCRIPTION	REV
5/5/26	PERMITTING	A



SCALE: NTS

SITE ADDRESS:
42.325833, -83.068467

SITE NAME:
DETROIT CABINET

SHEET NAME:
CABINET DETAILS

SHEET NUMBER:

3

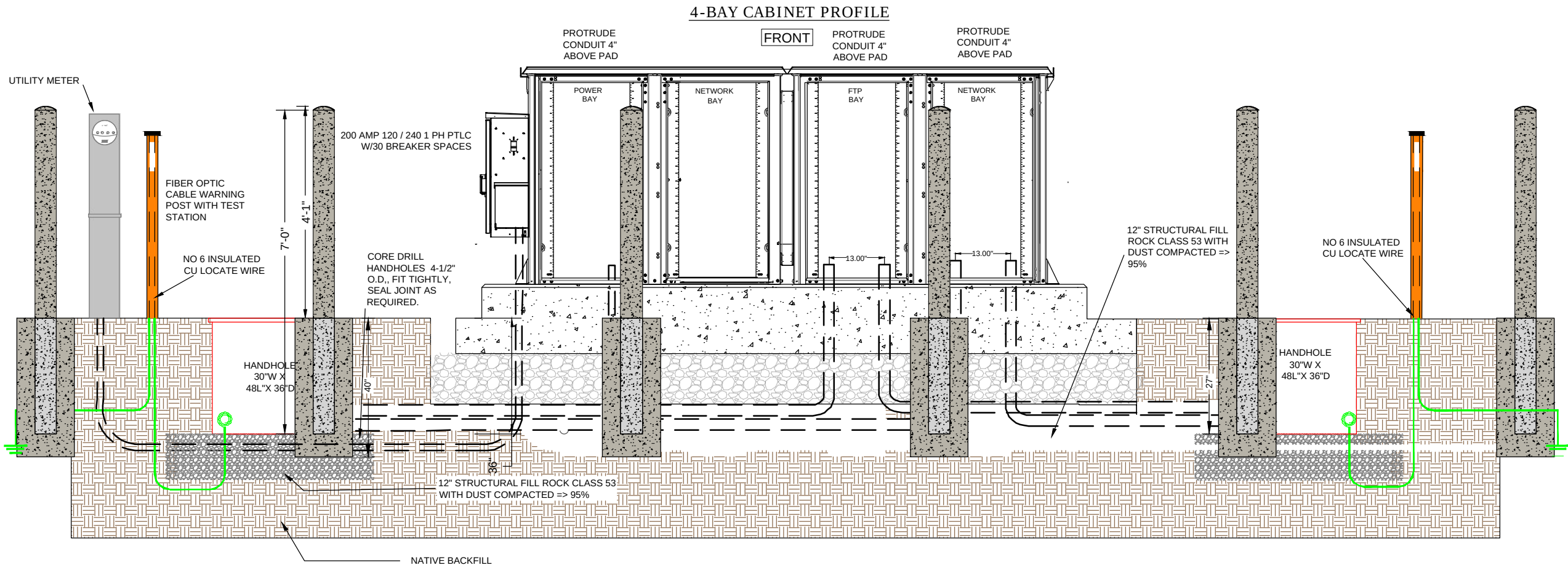
BOLLARDS - OPTIONAL AS SITE DICTATES
PIPE BOLLARD SPECIFICATIONS:

CARBON STEEL PIPE SHALL BE 6"ID DIA X 7'L, CONFORMING TO SCHEDULE 40 ASTM A 53 GRADES A AND B.

- 1. PIPE SHALL BE FILLED WITH A MIN 3,000 PSI CONCRETE. A DOMED CAP 1" HIGH SHALL BE HAND FORMED TO PROVIDE WATER RUNOFF. PIPE WILL BE 4' ABOVE GRAD AND 3' BELOW GRADE.
- 2. CONCRETE FOOTER SHALL BE A MIN 3,000 PSI CONCRETE, 40"D X 15" DIA.
- 3. PIPE SHALL BE PROVIDED FACTORY PAINTED WITH RUST INHIBITOR PRIMER FINISH. THE FINAL FINISH SHALL BE PAINTED YELLOW.

GENERAL NOTE:

- A.) A FINAL INSPECTION OF THE SITE CONFIRMING THE SITE IS RESTORED AND CLEANED UP SHALL BE COMPLETED BY THE PROJECT MANAGER PRIOR TO FINAL METRONET ACCEPTANCE OF THE WORK.



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4-BAY NETWORK
CABINET
DETROIT, MI

DESIGN ENG: LWW

DRAWN BY: JDF

REVIEWED BY: LWW

SUBMITTALS		
DATE	DESCRIPTION	REV
5/5/26	PERMITTING	A



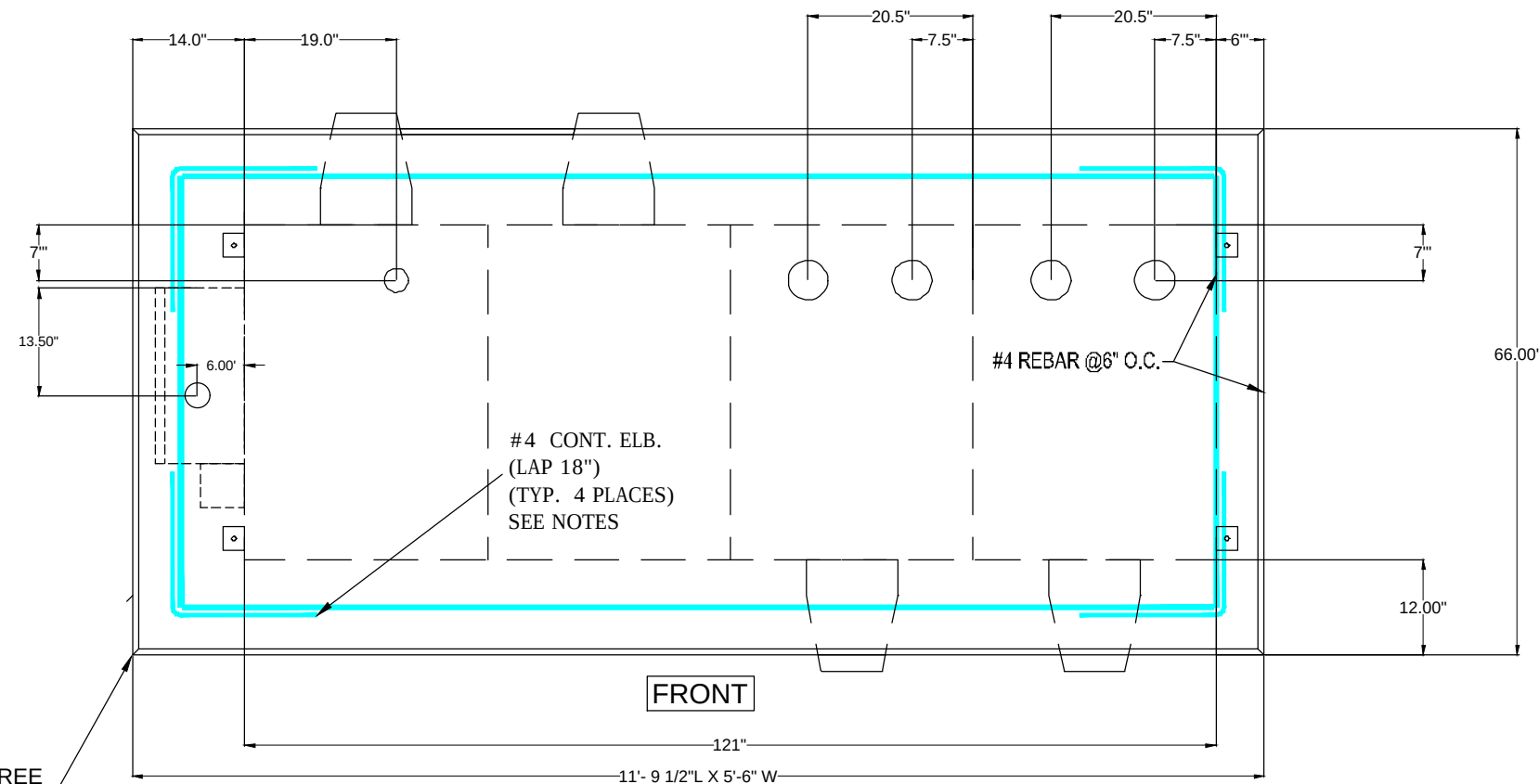
SCALE: NTS

SITE ADDRESS:
42.325833, -83.068467

SITE NAME:
DETROIT CABINET

SHEET NAME:
CABINET DETAILS

SHEET NUMBER:



3/4" 45 DEGREE
CHAMFER
EDGE ALL SIDES

12" DEPTH CLASS 53
CRUSHED ROCK, WITH
DUST COMPACTED => 95%

8" REVEAL
ABOVE
FINAL
GRADE

NETWORK 4-BAY CABINET CONCRETE PAD CONSTRUCTION

SPECIFICATIONS AND NOTES

SITE:

STRUCTURAL FILL SHALL BE MECHANICALLY COMPACTED IN 6" LIFTS TO 95% OR GREATER PROCTOR (ASTM D-698). WITH A COMPACTION TEST RUN ON EACH LIFT (1 TEST PER 248 SF). STRUCTURAL FILL SHALL EXTEND A MINIMUM OF 12" BEYOND THE PAD PERIMETER. ALL SUBGRADE WITHIN THE SLAB AREA SHALL BE COMPACTED TO 95% STANDARD PROCTOR. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE ON THE SITE AT ALL TIMES. ALL EXCAVATION SHALL BE FREE OF WATER BEFORE PLACING CONCRETE.

CONCRETE CODE:

ALL CONCRETE SHALL BE MIXED, FORMED, FINISHED, CURED, AND PROTECTED IN CONFORMANCE WITH THE RECOMMENDATIONS OF THE PORTLAND CEMENT ASSOCIATION (PCA) AND THE AMERICAN CONCRETE INSTITUTE (ACI)

MIX:

PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE II. MIX SHALL HAVE 20% (BY CEMENTITIOUS MATERIAL WEIGHT) FLY ASH CONFORMING TO ASTM C618, CLASS F. MIX SHALL BE FIBER REINFORCED CONFORMING TO ASTM A820-06 - STANDARD SPECIFICATIONS FOR COMMERCIAL FIBER-REINFORCED CONCRETE. AGGREGATE SIZE SHALL BE 1/2" NOMINAL AND SHALL CONFORM TO ASTM C33. MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 4000 PSI. MAXIMUM SLUMP SHALL BE 5.5 INCHES. NO STRENGTH ACCELERATING ADDITIVES WITHOUT APPROVAL OF ENGINEER.

REINFORCEMENT STEEL:

REINFORCING SHALL BE DEFORMED BILLET-STEEL BARS CONFORMING TO ASTM A615, GRADE 60. REINFORCEMENT SHALL BE COLD BENT AND SHALL NOT BE WELDED. REINFORCEMENT SHALL BE CLEANED SO AS TO BE FREE OF OIL, DIRT, LOOSE MILL SCALE, AND LOOSE RUST OR OTHER COATINGS THAT WOULD DESTROY OR REDUCE THE BOND.

REINFORCEMENT CONTINUITY:

UNLESS SHOWN OTHERWISE ON THE DESIGN DRAWINGS, ALL REINFORCEMENT SHALL BE PLACED CONTINUOUS BY LAP SPlicing, UNLESS DETAILED OTHERWISE ON DESIGN DRAWINGS. REINFORCEMENT SHALL BE ACCURATELY PLACED AS PER ACI 301 AND SECURELY TIGHTLY TIED INTO POSITION WITH NO. 16 GA. ANNEALED WIRE NO GREATER THAN 2" INTERVALS ALONG THE LAP SPlicing.

PLACEMENT AND CURE:

PRODUCTION OF CONCRETE SHALL COMPLY WITH CHAPTER 7 OF ACI 301. PLACEMENT OF CONCRETE SHALL BE IN ACCORDANCE WITH CHAPTER 8 OF ACI 301. DURING HOT WEATHER, THE TEMPERATURE OF THE CONCRETE, AS PLACED, SHALL NOT EXCEED 90° F. DURING COLD WEATHER, CONCRETE SHALL BE MAINTAINED ABOVE 50° F FOR AT LEAST 7 DAYS AFTER PLACEMENT. HOT AND COLD WEATHER CONCRETE PLACEMENT SHALL BE IN ACCORDANCE WITH ACI 305 AND ACI 306. FRESHLY DEPOSITED CONCRETE SHALL BE PROTECTED FROM PREMATURE DRYING AND EXCESSIVELY HOT OR COLD TEMPERATURES AND SHALL BE MAINTAINED WITH MINIMAL MOISTURE LOSS AT A RELATIVELY CONSTANT TEMPERATURE FOR THE PERIOD OF TIME NECESSARY FOR THE HYDRATION OF THE CEMENT AND PROPER HARDENING OF THE CONCRETE. ALL NEWLY PLACED CONCRETE SHALL BE KEPT MOIST FOR A MINIMUM OF 7 DAYS. CURING SHALL CONFORM TO THE REQUIREMENTS IN CHAPTER 12, ACI 301.

FINISHING:

TIE HOLES, HONEYCOMBS, AND OTHER CONCRETE SURFACE DEFECTS SHALL BE REPAIRED IN ACCORDANCE WITH CHAPTER 9 OF ACI 301 AS SOON AS PRACTICABLE AFTER FORM REMOVAL. THE REPAIR SHALL BE PERFORMED IN SUCH A MANNER AS TO NOT DELAY, INTERFERE WITH, OR IMPAIR THE PROPER CURING OF THE FRESH CONCRETE. THE ENGINEER SHALL BE NOTIFIED BEFORE PROCEEDING WITH REPAIR IF THE DEFECT IS GREATER THAN 5 INCHES DEEP AND LARGER THAN 200 SQUARE INCHES IN SURFACE AREA, OR IF THE DEPTH IS OVER 1/3 THE THICKNESS OF THE MEMBER AND GREATER THAN 6 INCHES IN ANY OTHER DIRECTION.

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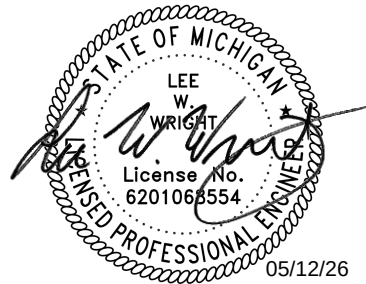
4-BAY NETWORK CABINET DETROIT, MI

DESIGN ENG: LWW

DRAWN BY: JDF

REVIEWED BY: LWW

SUBMITTALS		
DATE	DESCRIPTION	REV
5/5/26	PERMITTING	A



SCALE: NTS

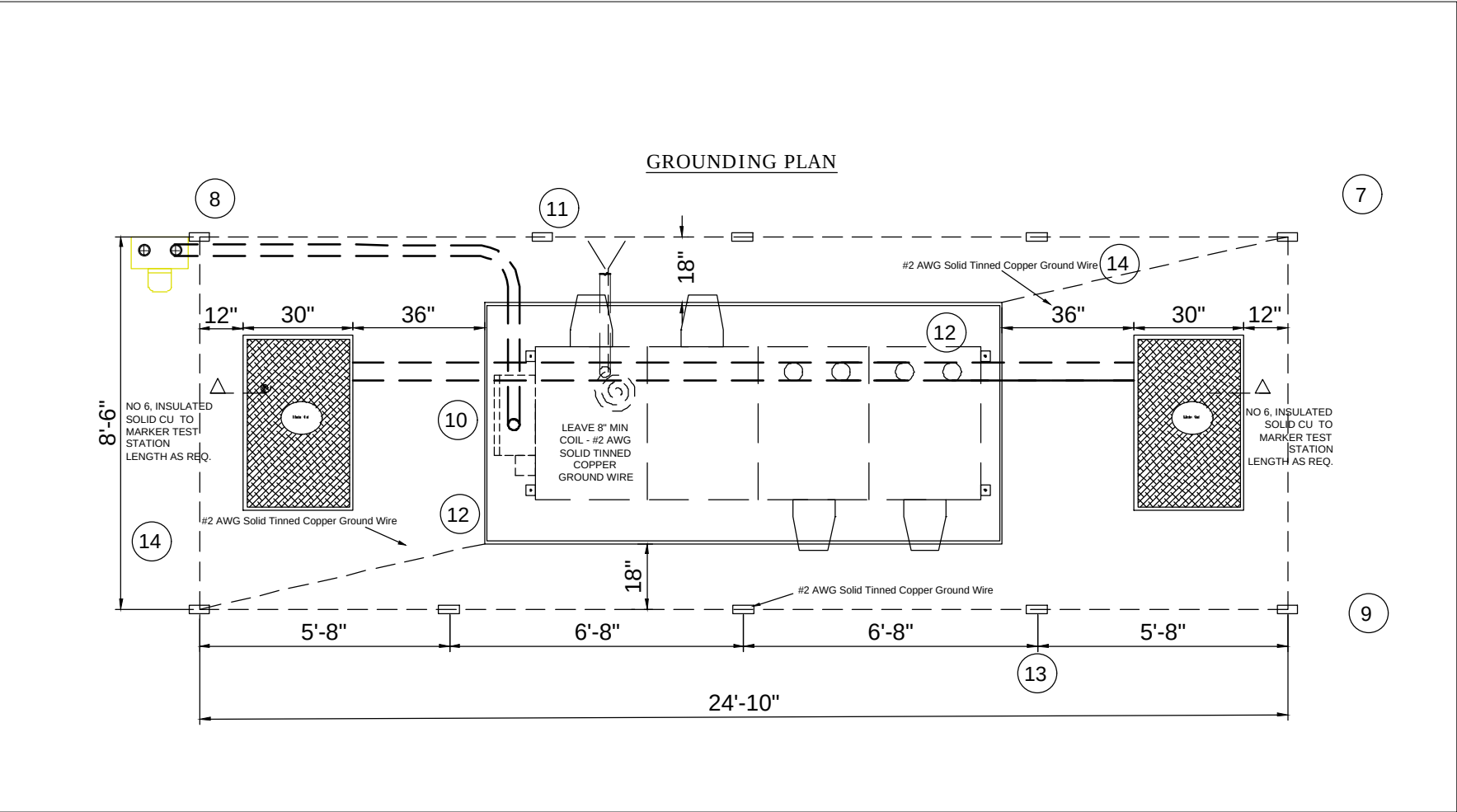
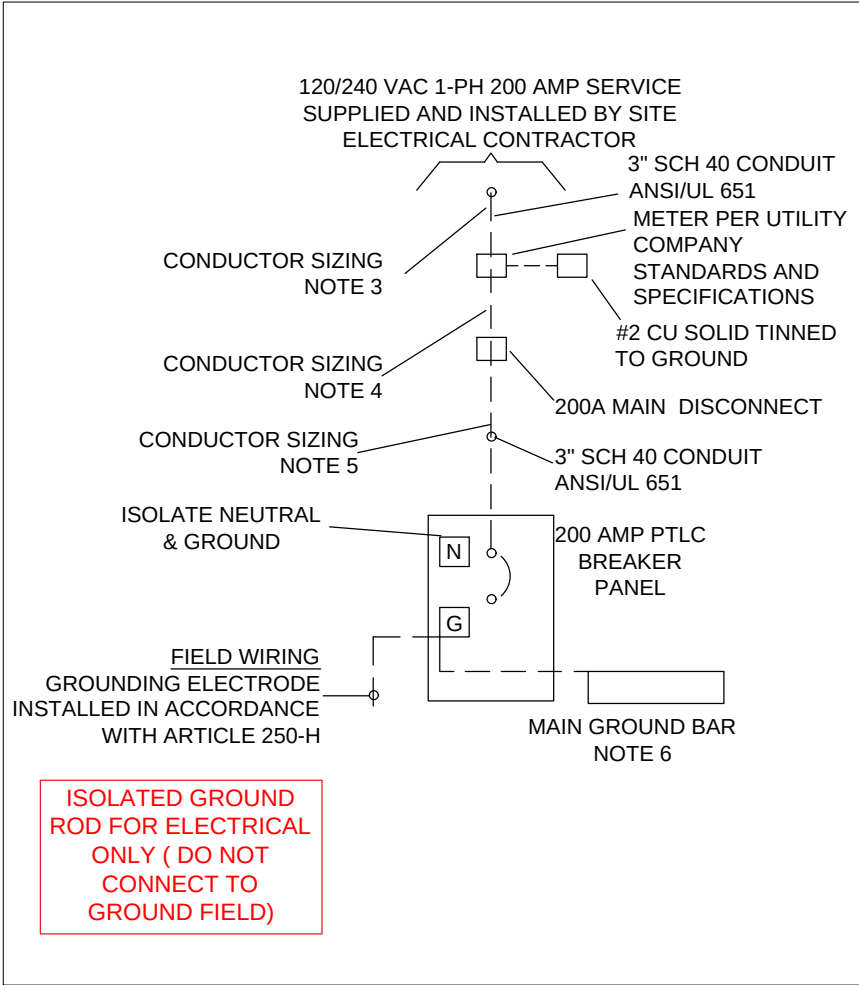
SITE ADDRESS:
42.325833, -83.068467

SITE NAME:
DETROIT CABINET

SHEET NAME:
CABINET DETAILS

SHEET NUMBER:

6



NOTES:

1. ----- DASHED LINES DENOTE FIELD WORK.
2. ISOLATE NEUTRAL & GROUND
3. FEEDER CONDUCTORS (2) 3/0 CU THHN AND (1) 2/0 CU THHN NEUTRAL IN ACCORDANCE WITH NEC (ARTICLE 215.2)
4. FEEDER CONDUCTORS (2) 3/0 CU THHN AND (1) 2/0 CU THHN NEUTRAL IN ACCORDANCE WITH NEC (ARTICLE 215.2).
5. FEEDER CONDUCTORS (2) 3/0 CU THHN, (1) 2/0 CU THHN NEUTRAL AND #4 CU THHN GROUND IN ACCORDANCE WITH NEC (ARTICLE 215.2)
6. #2 THHN BOND BETWEEN BREAKER GROUND AND MAIN GROUND BAR
7. ALL LUGS THAT HOLD MORE THAN ONE WIRE SHALL BE LISTED FOR MULTI-BARRELL CONNECTIONS.
8. ALL CONDUCTORS SHALL BE COPPER.

9. 120/240 VAC, 200AMP, SINGLE PHASE PEDESTAL COORDINATE INSTALLATION WITH LOCAL ELECTRIC UTILITY.
10. 3" SCHEDULE 40 CONDUIT, ANSI/UL 651. MEETING OR OR EXCEEDING THE REQUIREMENTS OF NEMA TC-2
11. COPPER CLAD STEEL GROUND RODS, 5/8" X 8', 10 EA.
12. INTERSECT 200 AMP 120/240 SINGLE PHASE POWER TRANSFER LOAD CENTER (PTLC)
13. ALL GROUND RING CONDUCTORS AND GROUND ROD CONNECTIONS SHALL BE EXOTHERMIC WELDED.
14. UFER GROUND-EXOTHERMIC WELD TO NO 4 REBAR, COORDINATE WITH CONCRETE CONTRACTOR.
15. GROUND RING CONDUCTORS AND TOP OF GROUND RODS SHALL BE BURIED A MINIMUM DEPTH OF 18".
16. HANDHOLE GROUND ROD ISOLATED FROM GROUND FIELD

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4-BAY NETWORK
CABINET
DETROIT, MI

DESIGN ENG: LWW

DRAWN BY: JDF

REVIEWED BY: LWW

SUBMITTALS		
DATE	DESCRIPTION	REV
5/5/26	PERMITTING	A



SCALE:	NTS
SITE ADDRESS:	42.325833, -83.068467
SITE NAME:	DETROIT CABINET
SHEET NAME:	CABINET ELECTRICAL DETAILS/ GROUNDING PLAN
SHEET NUMBER:	7

SUBMITTALS		
DATE	DESCRIPTION	REV
5/5/26	PERMITTING	A



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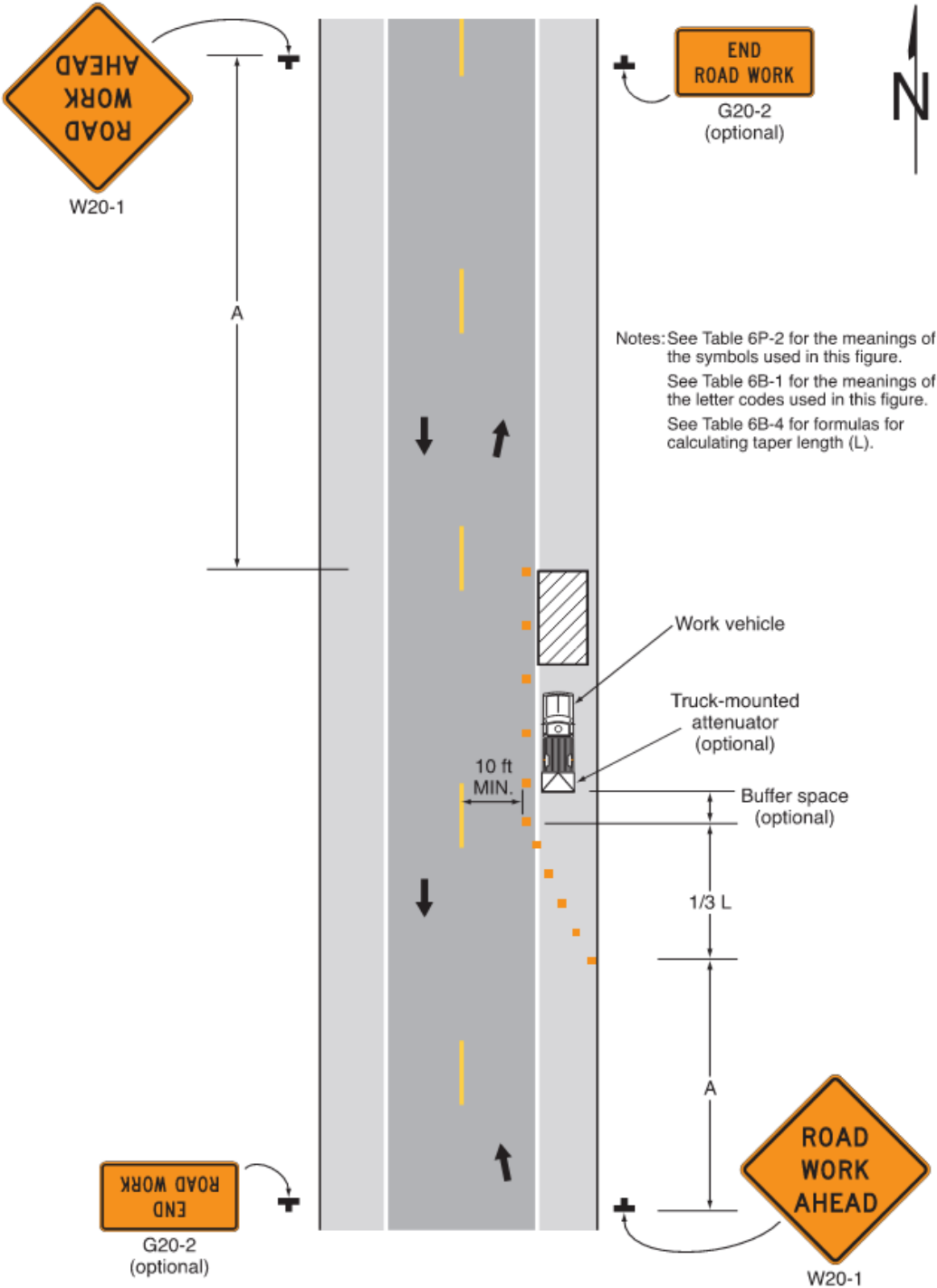
SITE ADDRESS:
42.325833, -83.068467

SITE NAME:
DETROIT CABINET

SHEET NAME:
TRAFFIC CONTROL PLANS

SHEET NUMBER:
8

Figure 6P-6. Shoulder Work with Minor Encroachment (TA-6)



Typical Application 6

Notes for Figure 6P-7—Typical Application 7
Road Closure with a Diversion

- Support:
1. Signs and object markers are shown for one direction of travel only.
- Standard:
2. Devices similar to those depicted shall be placed for the opposite direction of travel.
 3. Pavement markings no longer applicable to the traffic pattern of the roadway shall be removed or obliterated before any new traffic patterns are open to traffic.
 4. Temporary traffic barriers and end treatments shall be crashworthy.
- Guidance:
5. If the tangent distance along the temporary diversion is more than 600 feet, a Reverse Curve sign, left first, should be used instead of the Double Reverse Curve sign, and a second Reverse Curve sign, right first, should be placed in advance of the second reverse curve back to the original alignment.
 6. When the tangent section of the diversion is more than 600 feet, and the diversion has sharp curves with recommended speeds of 30 mph or less, Reverse Turn signs should be used.
 7. Where the temporary pavement and old pavement are different colors, the temporary pavement should start on the tangent of the existing pavement and end on the tangent of the existing pavement.
 8. Delineators or channelizing devices should be used along the diversion.
- Option:
9. Flashing warning lights and/or flags may be used to call attention to the warning signs.
 10. On sharp curves, large arrow signs may be used in addition to other advance warning signs.

METRONET NETWORK CABINET CONSTRUCTION DRAWINGS

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CABINET
DETROIT, MI

DESIGN ENG: LWW

DRAWN BY: JDF

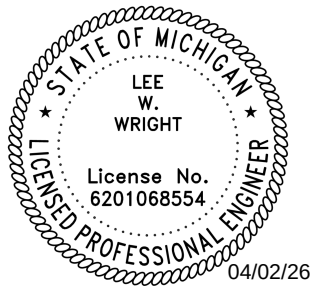
REVIEWED BY: LWW

SUBMITTALS

DATE	DESCRIPTION	REV
4/2/26	PERMITTING	A

TABLE OF CONTENTS

COVER PAGE	01
SITE PLAN	02
CABINET DETAILS	03-05
ELECTRICAL DETAILS/ GROUNDING PLAN	06
TRAFFIC CONTROL PLANS	07



SCALE: NTS

SITE ADDRESS:
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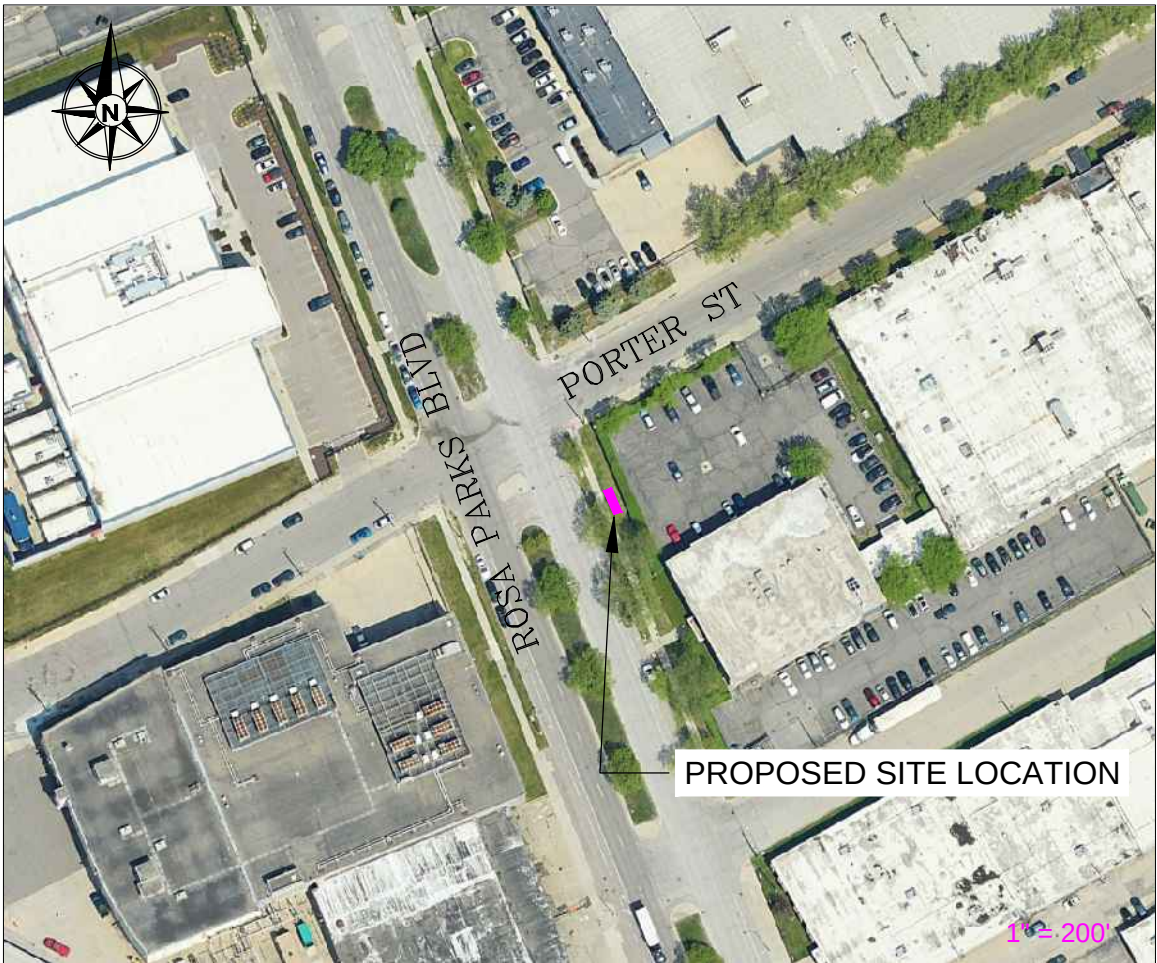
SITE NAME:
DETROIT CABINET

SHEET NAME:
COVER SHEET

SHEET NUMBER:

1

SITE LOCATION MAP
LAT/LONG: 42. 325833, -83.068467



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Call before you dig.

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334-805-7607
CHRISTOPHER.DEER@METRONET.COM

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LEE W. WRIGHT, P.E.
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11880 COLLEGE BLVD
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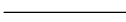
4-BAY NETWORK
CABINET
DETROIT, MI

DESIGN ENG: LWW
DRAWN BY: JDF
REVIEWED BY: LWW

SUBMITTALS		
DATE	DESCRIPTION	REV
4/2/26	PERMITTING	A



LEGEND

PROPERTY LINE	
EDGE OF PAVEMENT	
CENTERLINE	
SEWER LINE	
FIBER CONDUIT	
ELECTRICAL CONDUIT	
WATER LINE	
GAS LINE	

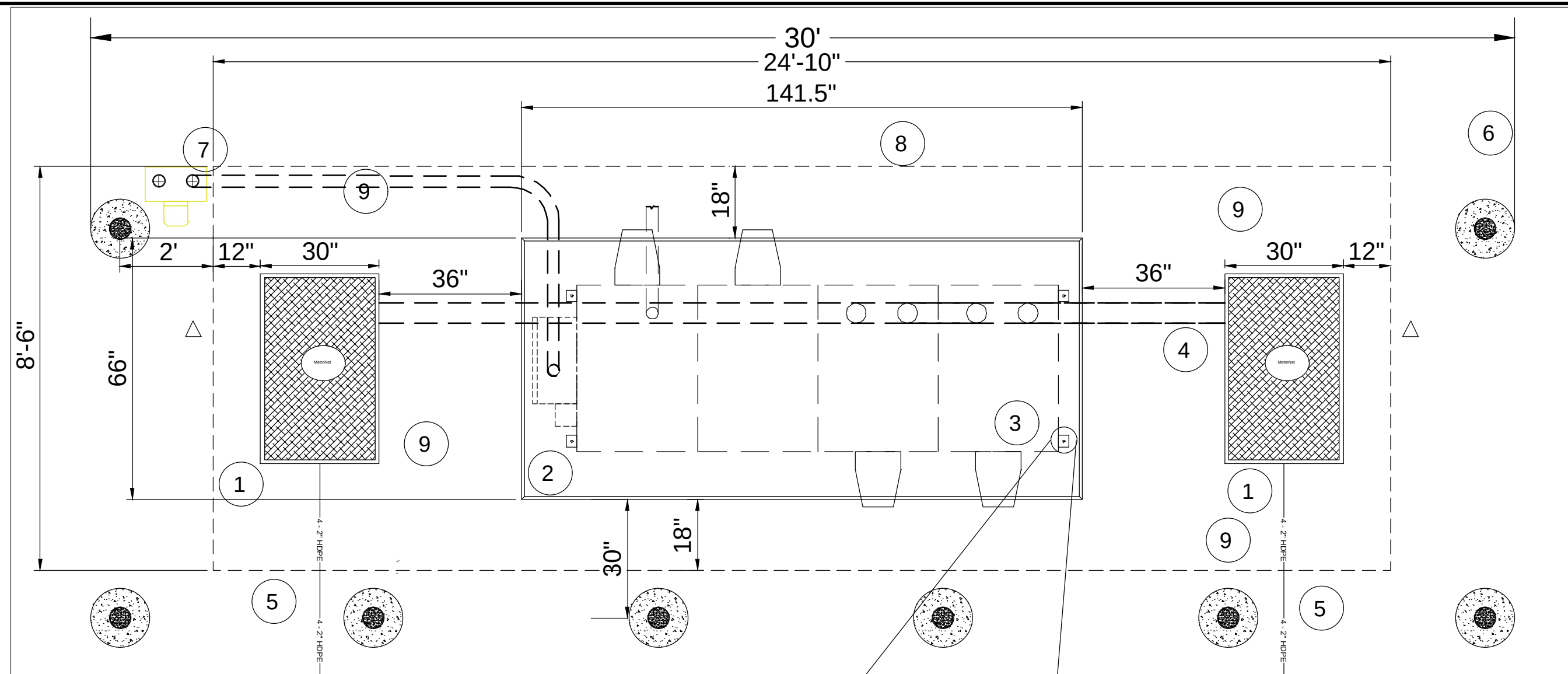
SCALE: 1" = 32'

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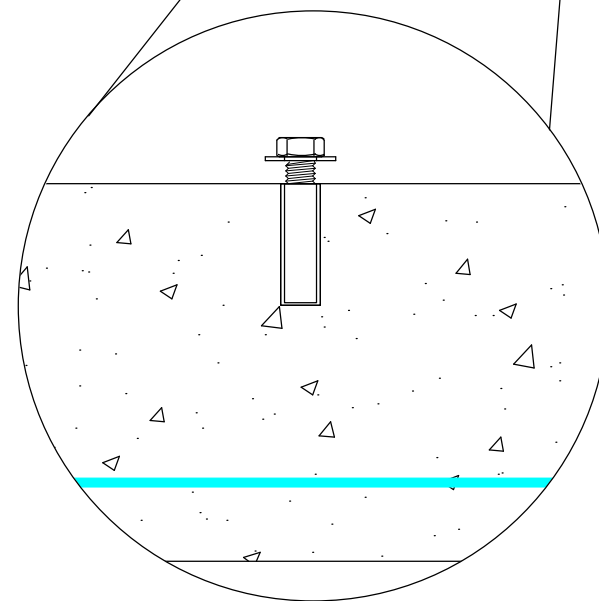
SHEET NAME: SITE PLAN

SHEET NUMBER: 2



NOTES:

1. 30"W X 48"L X 36"D Handhole
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3. Cabinet Footprint 121"L X 42"W X 62.5"H
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7. 2" SCH 40 PVC Elect. Conduit-UL Listed
8. Ground Field Extents
9. 6" ID DIA x 7'L Steel Pipe Bollard, Concrete Filled. (As Required, Site Specific)



CONCRETE FASTENING TYPICAL
1/2" STAINLESS STEEL DROP IN
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INSTALLATION NOTE:

DRILL AND INSTALL WEDGE ANCHORS
DURING PLACEMENT OF THE CABINET
ONTO THE PAD TO INSURE
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4-BAY NETWORK CABINET DETROIT, MI

DESIGN ENG: LWW

DRAWN BY: JDF

REVIEWED BY: LWW

SUBMITTALS		
DATE	DESCRIPTION	REV
4/2/26	PERMITTING	A



SCALE: NTS

SITE ADDRESS:
42.325833, -83.068467

SITE NAME:
DETROIT CABINET

SHEET NAME:
CABINET DETAILS

SHEET NUMBER:

3

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PIPE BOLLARD SPECIFICATIONS:

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- 2. CONCRETE FOOTER SHALL BE A MIN 3,000 PSI CONCRETE, 40"D X 15" DIA.
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4-BAY NETWORK
CABINET
DETROIT, MI

DESIGN ENG: LWW

DRAWN BY: JDF

REVIEWED BY: LWW

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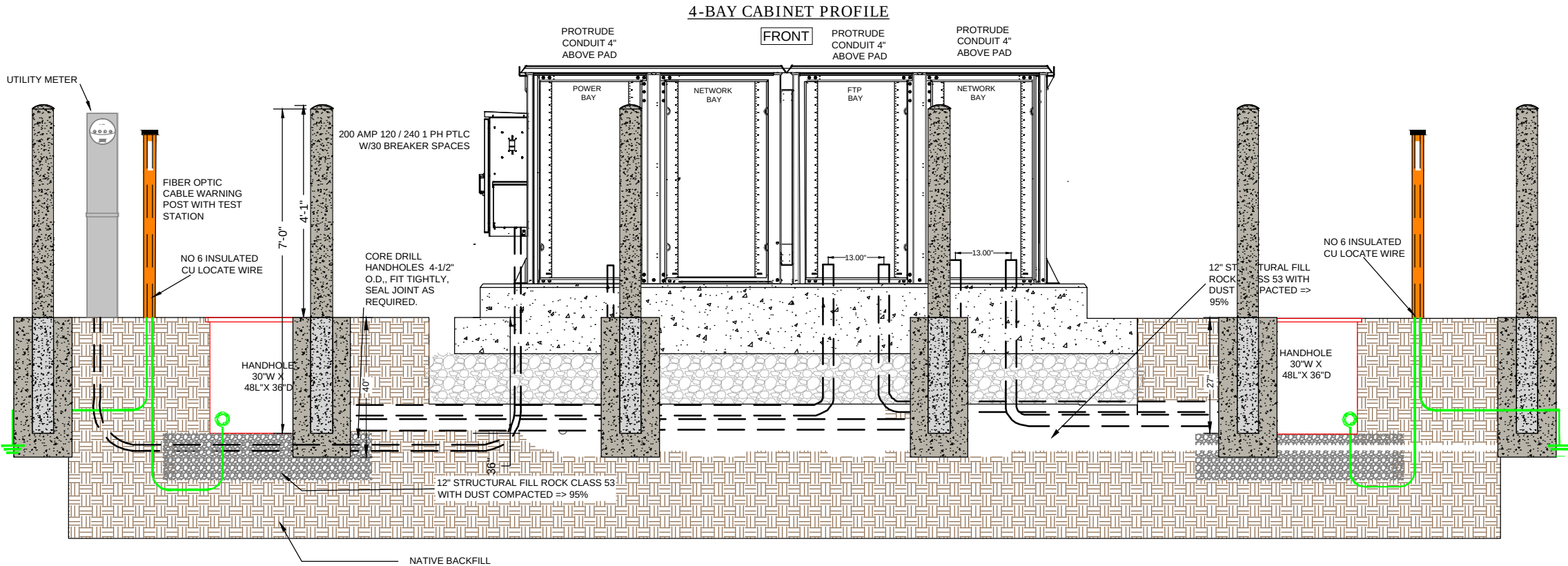
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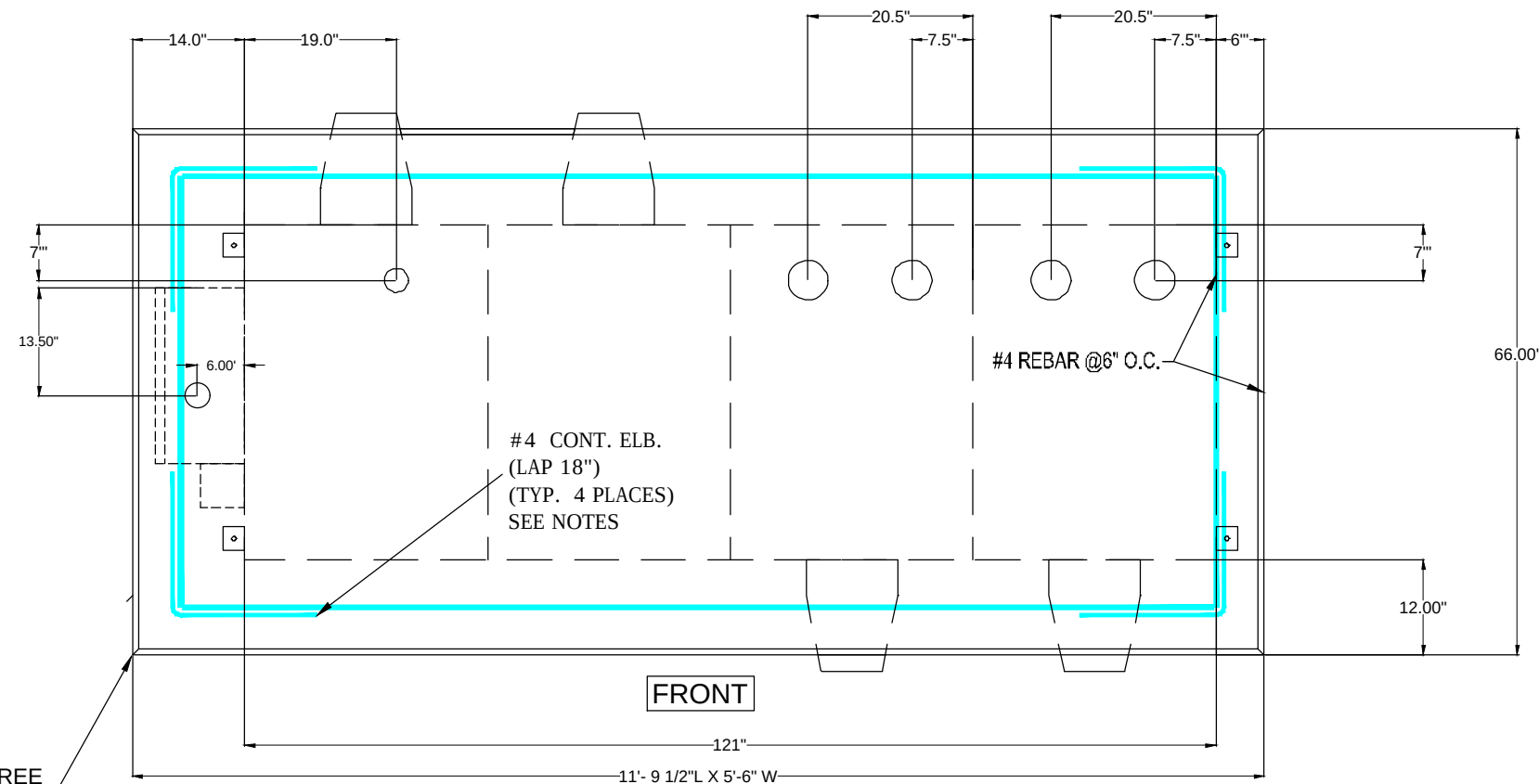
SITE ADDRESS:
42.325833, -83.068467

SITE NAME:
DETROIT CABINET

SHEET NAME:
CABINET DETAILS

SHEET NUMBER:





3/4" 45 DEGREE
CHAMFER
EDGE ALL SIDES

12" DEPTH CLASS 53
CRUSHED ROCK, WITH
DUST COMPACTED => 95%

8" REVEAL
ABOVE
FINAL
GRADE

NETWORK 4-BAY CABINET CONCRETE PAD CONSTRUCTION

SPECIFICATIONS AND NOTES

SITE:

STRUCTURAL FILL SHALL BE MECHANICALLY COMPACTED IN 6" LIFTS TO 95% OR GREATER PROCTOR (ASTM D-698). WITH A COMPACTION TEST RUN ON EACH LIFT (1 TEST PER 248 SF). STRUCTURAL FILL SHALL EXTEND A MINIMUM OF 12" BEYOND THE PAD PERIMETER. ALL SUBGRADE WITHIN THE SLAB AREA SHALL BE COMPACTED TO 95% STANDARD PROCTOR. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE ON THE SITE AT ALL TIMES. ALL EXCAVATION SHALL BE FREE OF WATER BEFORE PLACING CONCRETE.

CONCRETE CODE:

ALL CONCRETE SHALL BE MIXED, FORMED, FINISHED, CURED, AND PROTECTED IN CONFORMANCE WITH THE RECOMMENDATIONS OF THE PORTLAND CEMENT ASSOCIATION (PCA) AND THE AMERICAN CONCRETE INSTITUTE (ACI)

MIX:

PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE II. MIX SHALL HAVE 20% (BY CEMENTITIOUS MATERIAL WEIGHT) FLY ASH CONFORMING TO ASTM C618, CLASS F. MIX SHALL BE FIBER REINFORCED CONFORMING TO ASTM A820-06 - STANDARD SPECIFICATIONS FOR COMMERCIAL FIBER-REINFORCED CONCRETE. AGGREGATE SIZE SHALL BE 1/2" NOMINAL AND SHALL CONFORM TO ASTM C33. MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 4000 PSI. MAXIMUM SLUMP SHALL BE 5.5 INCHES. NO STRENGTH ACCELERATING ADDITIVES WITHOUT APPROVAL OF ENGINEER.

REINFORCEMENT STEEL:

REINFORCING SHALL BE DEFORMED BILLET-STEEL BARS CONFORMING TO ASTM A615, GRADE 60. REINFORCEMENT SHALL BE COLD BENT AND SHALL NOT BE WELDED. REINFORCEMENT SHALL BE CLEANED SO AS TO BE FREE OF OIL, DIRT, LOOSE MILL SCALE, AND LOOSE RUST OR OTHER COATINGS THAT WOULD DESTROY OR REDUCE THE BOND.

REINFORCEMENT CONTINUITY:

UNLESS SHOWN OTHERWISE ON THE DESIGN DRAWINGS, ALL REINFORCEMENT SHALL BE PLACED CONTINUOUS BY LAP SPlicing, UNLESS DETAILED OTHERWISE ON DESIGN DRAWINGS. REINFORCEMENT SHALL BE ACCURATELY PLACED AS PER ACI 301 AND SECURELY TIGHTLY TIED INTO POSITION WITH NO. 16 GA. ANNEALED WIRE NO GREATER THAN 2" INTERVALS ALONG THE LAP SPlicing.

PLACEMENT AND CURE:

PRODUCTION OF CONCRETE SHALL COMPLY WITH CHAPTER 7 OF ACI 301. PLACEMENT OF CONCRETE SHALL BE IN ACCORDANCE WITH CHAPTER 8 OF ACI 301. DURING HOT WEATHER, THE TEMPERATURE OF THE CONCRETE, AS PLACED, SHALL NOT EXCEED 90° F. DURING COLD WEATHER, CONCRETE SHALL BE MAINTAINED ABOVE 50° F FOR AT LEAST 7 DAYS AFTER PLACEMENT. HOT AND COLD WEATHER CONCRETE PLACEMENT SHALL BE IN ACCORDANCE WITH ACI 305 AND ACI 306. FRESHLY DEPOSITED CONCRETE SHALL BE PROTECTED FROM PREMATURE DRYING AND EXCESSIVELY HOT OR COLD TEMPERATURES AND SHALL BE MAINTAINED WITH MINIMAL MOISTURE LOSS AT A RELATIVELY CONSTANT TEMPERATURE FOR THE PERIOD OF TIME NECESSARY FOR THE HYDRATION OF THE CEMENT AND PROPER HARDENING OF THE CONCRETE. ALL NEWLY PLACED CONCRETE SHALL BE KEPT MOIST FOR A MINIMUM OF 7 DAYS. CURING SHALL CONFORM TO THE REQUIREMENTS IN CHAPTER 12, ACI 301.

FINISHING:

TIE HOLES, HONEYCOMBS, AND OTHER CONCRETE SURFACE DEFECTS SHALL BE REPAIRED IN ACCORDANCE WITH CHAPTER 9 OF ACI 301 AS SOON AS PRACTICABLE AFTER FORM REMOVAL. THE REPAIR SHALL BE PERFORMED IN SUCH A MANNER AS TO NOT DELAY, INTERFERE WITH, OR IMPAIR THE PROPER CURING OF THE FRESH CONCRETE. THE ENGINEER SHALL BE NOTIFIED BEFORE PROCEEDING WITH REPAIR IF THE DEFECT IS GREATER THAN 5 INCHES DEEP AND LARGER THAN 200 SQUARE INCHES IN SURFACE AREA, OR IF THE DEPTH IS OVER 1/3 THE THICKNESS OF THE MEMBER AND GREATER THAN 6 INCHES IN ANY OTHER DIRECTION.

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4-BAY NETWORK CABINET DETROIT, MI

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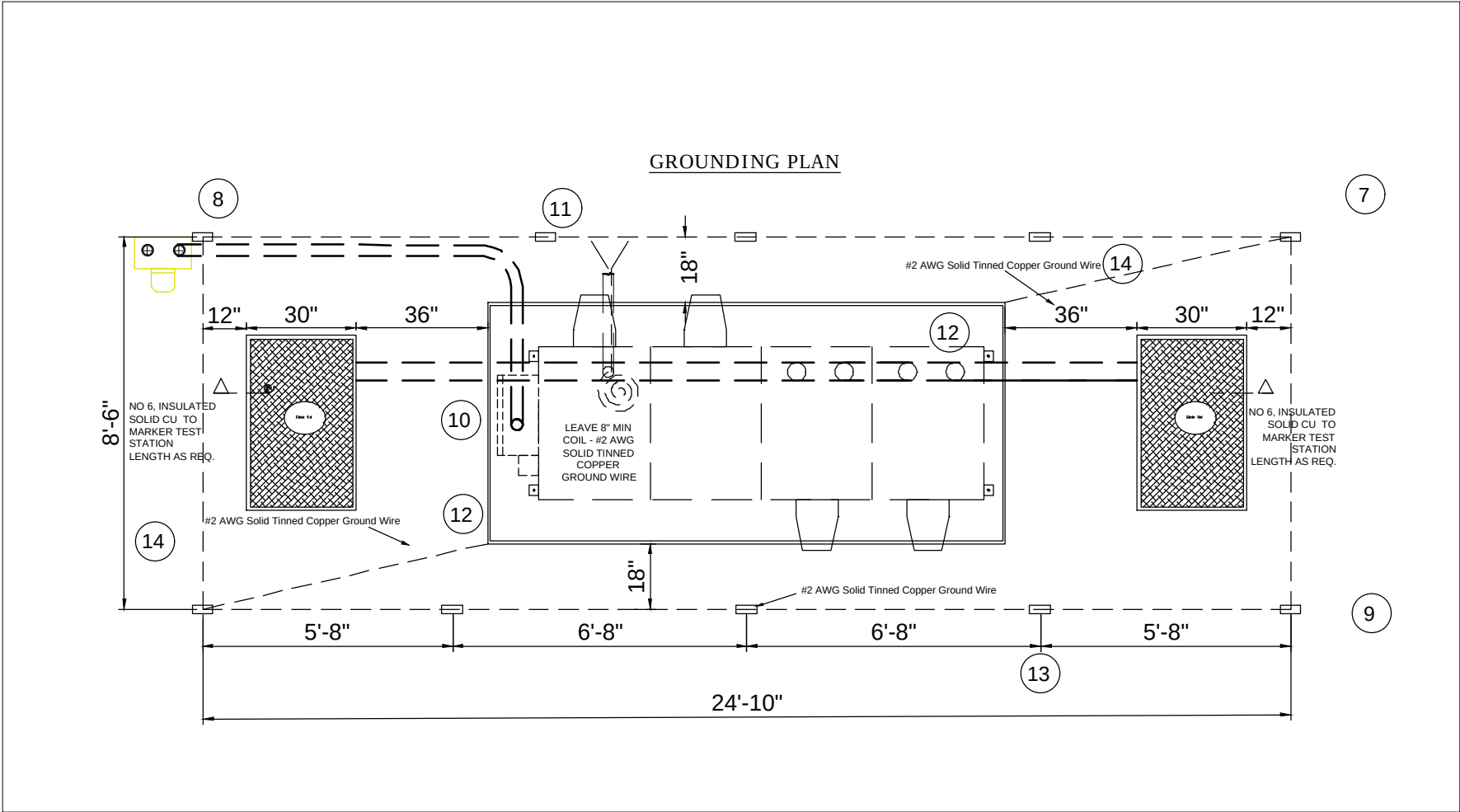
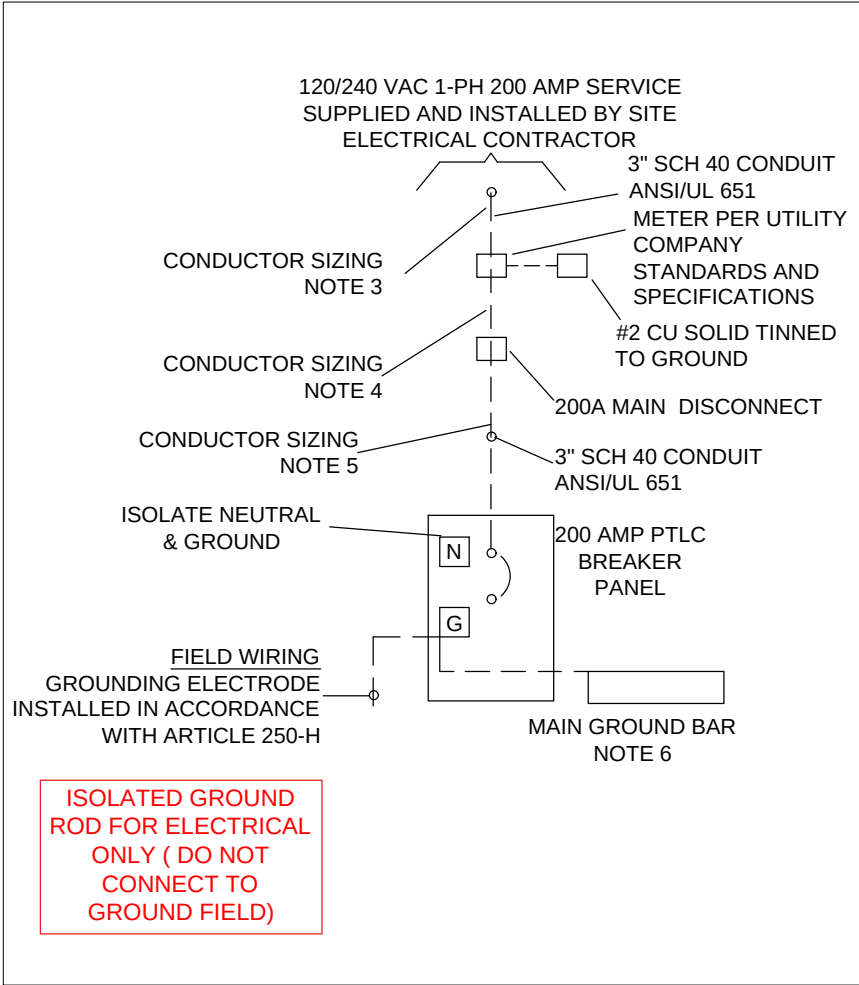
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SITE NAME:
DETROIT CABINET

SHEET NAME:
CABINET DETAILS

SHEET NUMBER:

5



NOTES:

1. ----- DASHED LINES DENOTE FIELD WORK.
2. ISOLATE NEUTRAL & GROUND
3. FEEDER CONDUCTORS (2) 3/0 CU THHN AND (1) 2/0 CU THHN NEUTRAL IN ACCORDANCE WITH NEC (ARTICLE 215.2)
4. FEEDER CONDUCTORS (2) 3/0 CU THHN AND (1) 2/0 CU THHN NEUTRAL IN ACCORDANCE WITH NEC (ARTICLE 215.2).
5. FEEDER CONDUCTORS (2) 3/0 CU THHN, (1) 2/0 CU THHN NEUTRAL AND #4 CU THHN GROUND IN ACCORDANCE WITH NEC (ARTICLE 215.2)
6. #2 THHN BOND BETWEEN BREAKER GROUND AND MAIN GROUND BAR
7. ALL LUGS THAT HOLD MORE THAN ONE WIRE SHALL BE LISTED FOR MULTI-BARRELL CONNECTIONS.
8. ALL CONDUCTORS SHALL BE COPPER.

9. 120/240 VAC, 200AMP, SINGLE PHASE PEDESTAL COORDINATE INSTALLATION WITH LOCAL ELECTRIC UTILITY.
10. 3" SCHEDULE 40 CONDUIT, ANSI/UL 651. MEETING OR OR EXCEEDING THE REQUIREMENTS OF NEMA TC-2
11. COPPER CLAD STEEL GROUND RODS, 5/8" X 8', 10 EA.
12. INTERSECT 200 AMP 120/240 SINGLE PHASE POWER TRANSFER LOAD CENTER (PTLC)
13. ALL GROUND RING CONDUCTORS AND GROUND ROD CONNECTIONS SHALL BE EXOTHERMIC WELDED.
14. UFER GROUND-EXOTHERMIC WELD TO NO 4 REBAR, COORDINATE WITH CONCRETE CONTRACTOR.
15. GROUND RING CONDUCTORS AND TOP OF GROUND RODS SHALL BE BURIED A MINIMUM DEPTH OF 18".
16. HANDHOLE GROUND ROD ISOLATED FROM GROUND FIELD

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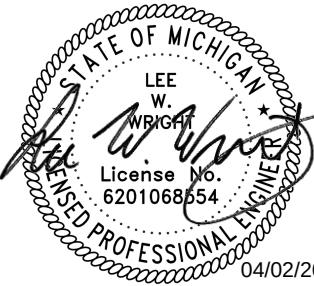
4-BAY NETWORK
CABINET
DETROIT, MI

DESIGN ENG: LWW

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SCALE:	NTS
SITE ADDRESS:	42.325833, -83.068467
SITE NAME:	DETROIT CABINET
SHEET NAME:	CABINET ELECTRICAL DETAILS/ GROUNDING PLAN
SHEET NUMBER:	6

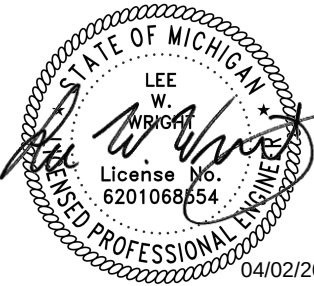
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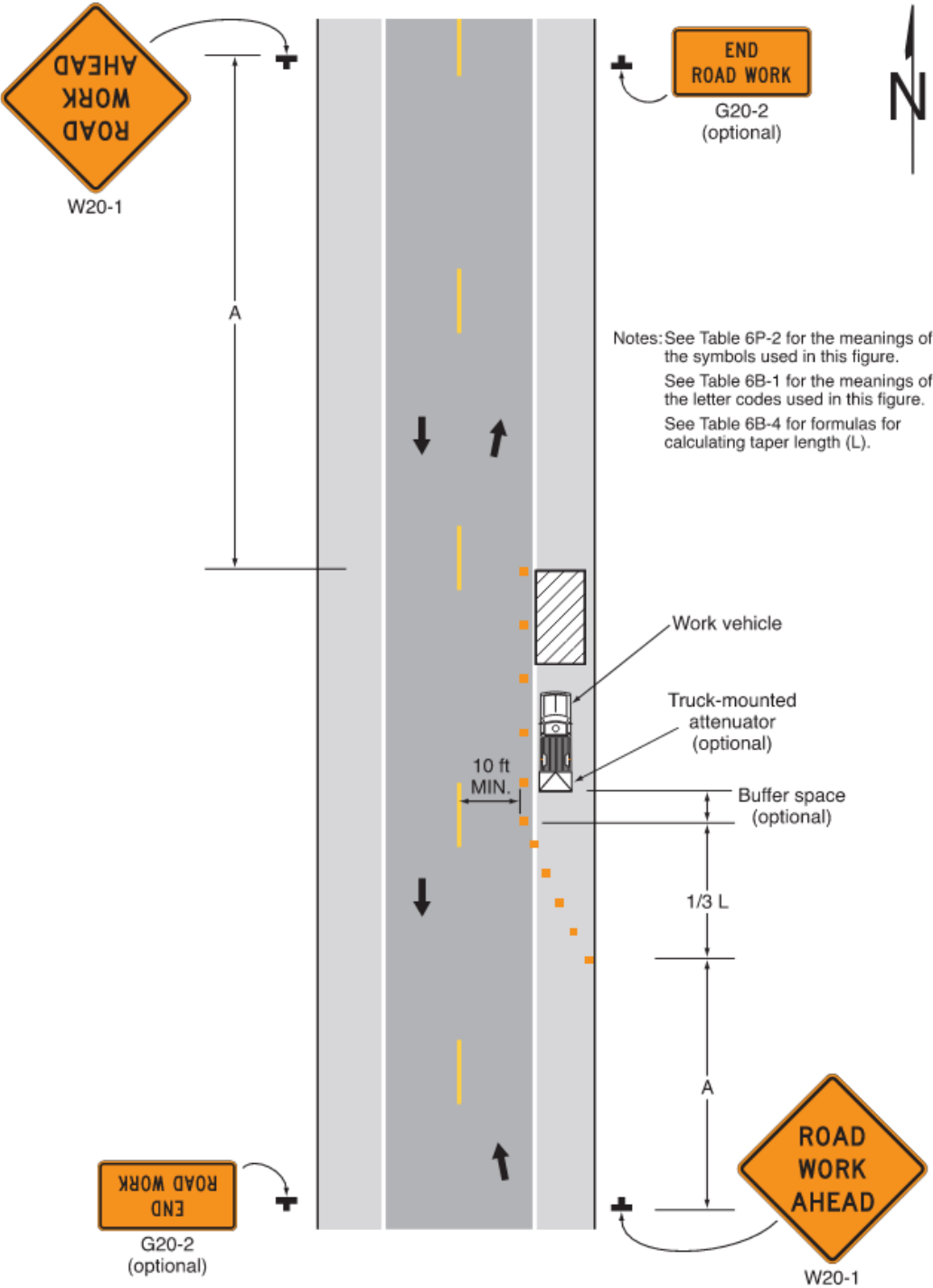
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SITE NAME:
DETROIT CABINET

SHEET NAME:
TRAFFIC CONTROL PLANS

SHEET NUMBER:
7

Figure 6P-6. Shoulder Work with Minor Encroachment (TA-6)

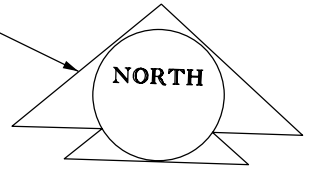


Typical Application 6

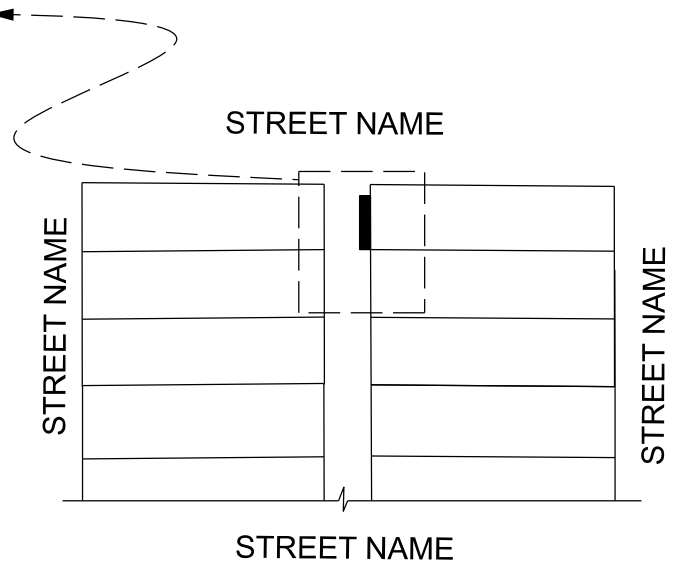
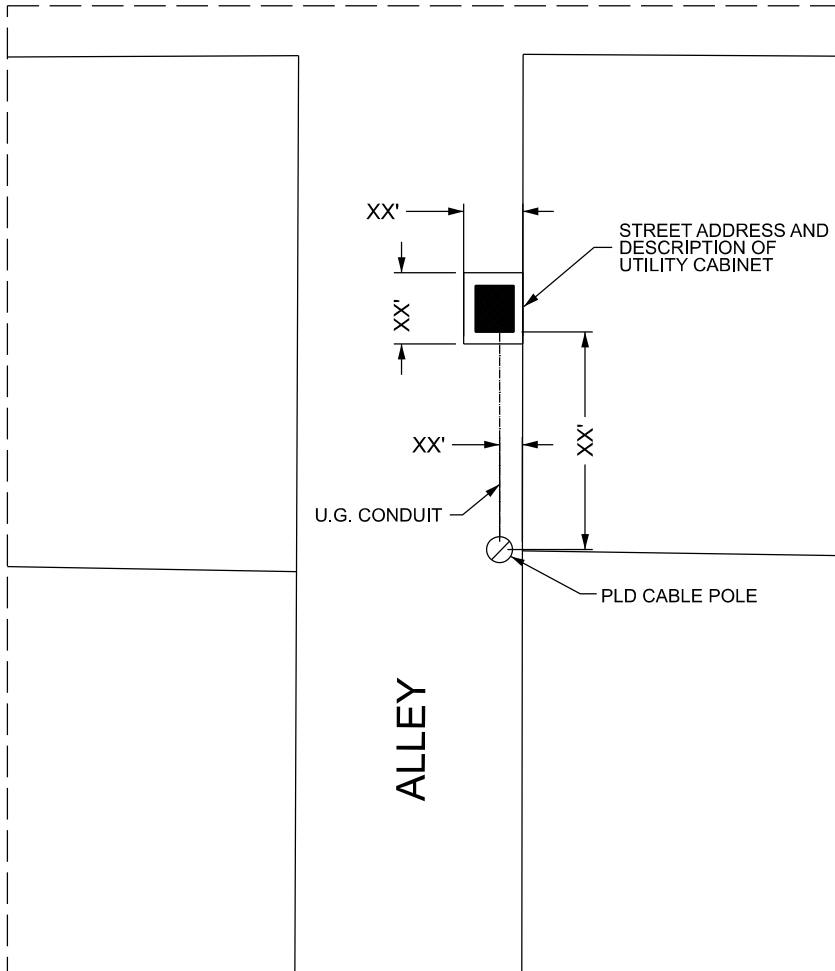
Notes for Figure 6P-7—Typical Application 7
Road Closure with a Diversion

- Support:
1. Signs and object markers are shown for one direction of travel only.
- Standard:
2. Devices similar to those depicted shall be placed for the opposite direction of travel.
 3. Pavement markings no longer applicable to the traffic pattern of the roadway shall be removed or obliterated before any new traffic patterns are open to traffic.
 4. Temporary traffic barriers and end treatments shall be crashworthy.
- Guidance:
5. If the tangent distance along the temporary diversion is more than 600 feet, a Reverse Curve sign, left first, should be used instead of the Double Reverse Curve sign, and a second Reverse Curve sign, right first, should be placed in advance of the second reverse curve back to the original alignment.
 6. When the tangent section of the diversion is more than 600 feet, and the diversion has sharp curves with recommended speeds of 30 mph or less, Reverse Turn signs should be used.
 7. Where the temporary pavement and old pavement are different colors, the temporary pavement should start on the tangent of the existing pavement and end on the tangent of the existing pavement.
 8. Delineators or channelizing devices should be used along the diversion.
- Option:
9. Flashing warning lights and/or flags may be used to call attention to the warning signs.
 10. On sharp curves, large arrow signs may be used in addition to other advance warning signs.

ARROW SHOWING
NORTH DIRECTION



STREET NAME



NOTE: Describe utility box (X' Length, X' Width, X' Height, Incl. Base and/or Other Features).
Describe conduit (X' Length, X' Width/Diameter, X' Below Grade).
Show distances from property lines and other on-street features such as street signs,
light poles, sewers, fire hydrants, etc. that are located in the proposed encroachment area.



- REQUEST ENCROACHMENT
(For Utility Cabinet and Underground Conduit)

SAMPLE UTILITY CABINET SKETCH