ASHWAUBENON
SCHOOL DISTRICT

Ashwaubenon School Board

Action Item 1

MEETING DATE: July 27, 2026

ISSUE: Fiber Optic Cable Replacement Between HS and PV

REQUESTED BY: Scott Truskowski

ATTACHMENTS: Holtger Brothers Bid, Bid Comparison, Bid Documents

FINANCIAL AND/OR STAFFING IMPLICATIONS: Total Cost Labor & Material: $33,570.00

FUNDING SOURCE: Currently unfunded, but working with Janelle. The technology budget will be used in the interim and may require a future budget adjustment

EXPLANATION:
Last winter, the fiber optic cable running from HS to PV was damaged. We are currently using an interim solution, but it's slow and unreliable. This has a significant impact on teaching and learning, regular operations, and testing.

I have worked with our fiber optic engineer to come with the best solution and to solicit bids.

RECOMMENDATION: Recommend the Board approve the bid of 33,570.00 from Holtger Brothers.

Ashwaubenon HS to Parkview Bid Response Tabulation

Budget $ 36,203.00

Bidder	**Amount**	**Above/Below Budget**
HBI	$ 33,570.00	$ (2,633.00)
CableCom	$ 68,633.00	$ 32,430.00
Deluca Tobin	$ 36,688.90	$ 485.90
H&H	$ 54,500.00	$ 18,297.00
Elexco	$ 35,770.00	$ (433.00)
AJ	No Bid	

Fiber Optic Specialists

ASHWAUBENON SCHOOL DISTRICT
HIGH SCHOOL TO PARKVIEW MIDDLE SCHOOL FIBER OPTIC CONNECTION SCOPE OF WORK

July 16, 2026

Dear Contractor,

MCE is soliciting bids on behalf of the Ashwaubenon School District for placement of a single 1.25" HDPE duct and 24 strand fiber optic cable to connect the Ashwaubenon High School to Parkview Middle School. Bid Units and Quantities are included in this Scope of Work; route and placement details are shown in the accompanying CAD Plans.

The District would like this work to be completed prior to the start of the 2026-2027 school year which begins on September 1st. Ideally the work will take place between August 4th and August 14th.

Please review the units in this Scope of Work and routes on the accompanying CAD plans and prepare pricing for this work no later than **11AM Thursday July 23rd**. All pricing can be sent on company letterhead to dbecker@mcewi.com. Please address your quote to:

Ashwaubenon School District
Scott Truskowski
Information Technology Coordinator
1055 Griffiths Lane
Ashwaubenon, WI 54304

All pricing will be held in confidence and forwarded to the District at 12PM on Thursday July 23rd.

Feel free to contact me with any questions. Thank you for your interest in this project, I look forward to receiving your pricing.

Sincerely,

Dan Becker
President
Office: 920-314-0980
www.mcewi.com
dbecker@mcewi.com

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Project Description:

Contractors are being asked to place a single 1.25" HDPE duct from an existing entry point at the Ashwaubenon High School approximately 1,255 feet south to an existing duct pack at the Athletic Fields Press Box. At this point approximately 625 feet of existing empty duct will be utilized to complete the 24 strand cable placement into Parkview Middle School.

Inside the High School, an existing 2" Innerduct will be used to route the 24 strand cable to the Termination Closet. Inside Parkview the new 24 strand cable will be spliced into an existing 12 strand fiber optic cable that runs to the Main Telecom Closet.

Unit Quantities:

Unit	Description	Quantity	Unit of Measure
OSP 1	Provide and install new single 1.25" SDR-11 HDPE duct with 12 awg tracer wire between HS and Press Box. Non-Manufacturer Specific. Include all necessary couplers. • Include 1,800 Mule Tape for pulling, and one for future.	1,255	Feet
OSP 2	Provide and install new polymer-concrete 24x36x36 Tier 22 rated handhole with Tier 15 rated cover. Quazite or Equivalent. • Include two (2) 5'x1/2" Copper Clad Ground Rod (one in each handhole). Non manufacturer specific. To be installed in each handhole for grounding purposes. • Include eight (4) 1.25 " duct plugs with port to support diameter of cable. • Include two (2) Self-Lam Fiber Optic Marker Tags labeled "Caution Fiber" to be included on slack coil in handhole.	2	Each
OSP 3	Provide and install new Flush Mount Locate Station adjacent to each new Handhole. Handley Industries T2IC5F1LMQ or equivalent.	2	Each
OSP 4	Provide and install 1.25" Schedule 40 PVC from below grade HDPE into existing NEMA 3R entry box at Athletic Field Press Box (3'). Non-Manufacturer Specific. Provide and install 1.25" Schedule 40 PVC from below grade HDPE into existing NEMA 3R entry box at Ashwaubenon High School (12'). Non-Manufacturer Specific.	15	Feet

OSP 5	Provide and install 24 strand OS2 Singlemode indoor-outdoor rated fiber optic cable from the High school Termination closet to the Parkview Splice point. Quantity includes interior routes, OSP routes, handhole slack, termination room slack, and 10% additional reserve. CommScope or equivalent.	3,000	Feet
ISP 1	Provide and install 1.25" innerduct inside Parkview Middle School Mechanical Room. Non-Manufacturer Specific.	20	Feet
ISP 2	Provide and Install new 24 capacity rack mount termination panel inside High school termination closet - include 24 LC/UPC pigtails and bulkhead adapters. LYNN Electronics or equivalent	1	Each
ISP 3	Provide and Install new 24 capacity wall mount splice enclosure inside Parkview Mechanical Room. LYNN Electronics or equivalent.	1	Each
ISP 4	Splice 24 stand cable to 24 pigtails inside High School termination Panel.	24	Each
ISP 5	Splice existing 12 strand cable to new 24 strand cable inside Parkview Middle School wall mount splice panel.	12	Each
ISP 6	Test 24 strand fiber optic cable bidirectionally between High School and Middle School with Power Meter Light Source at 1310 and 1550 nm wavelengths.	12	Each
ISP 7	Test 24 strand fiber optic cable bidirectionally between Middle School and High School with OTDR at 1310 and 1550 nm wavelengths.	12	Each
ISP 8	Test remaining unused strands of 24 strand fiber optic cable from High School to Middle School with OTDR at 1310 and 1550 nm wavelengths.	12	Each

Duct Placement Guidelines

All ducts will be placed on the routes identified in the attached CAD Plans. All ducts must maintain a minimum horizontal clearance zone of 18" when paralleling other underground utilities with the exception of water and sewer (storm and sanitary) mains where parallel runs must maintain 60" horizontal clearance.

All underground ducts must be placed a minimum of 36" below finished grade wherever possible. Instances where the duct must be placed at a shallower or drastically deeper depth must be brought to the attention of the Project Manager prior to installation.

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The Owner's Project Manager will be on site to coordinate actual placement. Routes will be marked with the use of paint and flags when necessary. The Contractor must not place duct along the route without first reviewing the individual areas with the Project Manager. This measure is designed to avoid instances where the new duct may encroach the restricted clearance zones of other utilities or extend into the Right-of-Way. Contractor must ensure that route and right-of-way markings remain visible to avoid unnecessary re-marking trips/additional costs.

All exposed duct ends must be covered with a temporary plug or adequately sealed with duct tape to prevent the ingress of dirt, water, and debris prior to the installation of the cable, locate wire, and mule tape.

Handhole Placement Guidelines

The Contractor may be required to place new handholes along the route shown on the CAD plans. See the attached CAD drawings for placement location of the handholes.

The handholes must sit parallel with adjacent streets, buildings, or other structures and must be flush with all surrounding surfaces, and if installed on a slope or grade the handhole must follow the contour of the grade as much as possible.

The installed handholes must sit atop a 12" bed of ¾" washed, crushed stone for drainage – pea gravel or other stone smaller than ¾" is not an acceptable base for drainage. All fill around the Handhole must be mechanically compacted in 12" layers to within 8" from the top to prevent settling.

Locate Post Placement Guidelines

The Contractor may be required to install Locate Stations adjacent to handholes identified on the CAD Drawings. The Locate Stations will be used to access the locate wires for future locating purposes.

Between the handhole and locate station the contractor must install a short length of 1-1/4" underground plowduct. This will facilitate the installation of the locate wires into the post from the handhole.

At no time will a locate post or station be installed in a location where it impedes or can be damaged by the removal of the handhole lid.

Locate Wire Installation Guidelines

All locate wires will be installed inside the duct with the fiber optic cable then routed into the locate stations at the new handhole locations. The locate wire must be secured to the locate station's insulating lugs via a crimp-on spade connector.

Following the installation of the locate wires into the flush mount locate station all wires must be labelled with either their direction of travel.

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Fiber Optic Cable Installation Guidelines

The Contractor can install the fiber optic cable by hand or with the use of pneumatic/hydraulic installation equipment. The Contractor must take care not to exceed the cable's maximum pulling tension (typically 600lbs). At each handhole the Contractor must store a minimum of 150 feet of cable slack (unless otherwise noted on the CAD Plans) neatly coiled and stored upright in the handhole and labeled at each end with a permanent label, identifying the Cable's owner and identifying the specific cable strand count. Suitable labels for this purpose are Panduit #PST-FO.

Following cable installation, all occupied ducts must be plugged using a split plug appropriately sized to accommodate the cable diameter – do not use foam, putty, or tape to permanently plug any duct. All spare ducts must only contain mule tape for future installations and be sealed using properly sized duct plugs.

Indoor Fiber Termination

All cable terminations will be performed by splicing factory terminated single strand fiber optic cable pigtails to the ends of the outdoor fiber optic cables. The Contractor will be required to install all Owner-provided Termination and Splice equipment as well as route all pre-terminated pigtails between devices.

Cable Testing

Following the splicing and termination procedures the Contractor will be required to test each strand using an OTDR and Power Meter Light Source (PMLS) at 1310nm and 1550nm. Each terminated strand will be tested between the sites along the ring with both devices at both wavelengths. All OTDR tests must be performed using a launch cable that is at least 150 meters in length and with an event threshold setting of equal to or less than 0.01db per event. This will allow the inspector to review the initial connector interface and all splices or anomalies that register greater than 0.01 along the trace.

End of Specifications.

HOLTGER BROS., INC.

MC&E

Name Dan Becker

Address 3091 Voyager Dr

City, State ZIP Green Bay, WI 54311

Phone (920) 676-3496

Email dbecker@mcewi.com

HOLTGER BROS., INC.

Name Unique VandenAvond

Address 950 West Main Ave

City, State ZIP De Pere, WI 54115

Phone 920-337-0516

Email bidspecialist@holtger.com

Project Name **Ashwaubenon High School to Parkview Middle School- Fiber Optic Connection**

SCOPE OF WORK

Unit	Description	Quantity	Unit of Measure
OSP 1	Provide and install new single 1.25" SDR-11 HDPE duct with 12 awg tracer wire between HS and Press Box. Non-Manufacturer Specific. Include all necessary couplers. Include 1,800 Mule Tape for pulling, and one for future.	1,255	Feet
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NOT INCLUDED

Price is for dirt conditions. Price does not include any rock, heavy cobble, gravel, buried concrete, or fill

All private facilities to be located by others

Price does not include any permitting or permit fees

Total Cost Labor & Material: $33,570.00

If you have any questions please contact Bryan Holtger, (920) 621-5684
bryan.holtger@holtger.com

Unique VandenAvond

Submitted by Unique VandenAvond

7/22/2026

Date

OWNER ACCEPTANCE

I, MC&E accept the above scope of work, proposed on 07/22/2026 for the amount of $33,570.00

Signature

Date

Customer P.O Number

Ashwaubenon HS to Parkview MS

PROJECT OWNER:
Ashwaubenon School District
2391 S Ridge Rd,
Green Bay, WI 54304

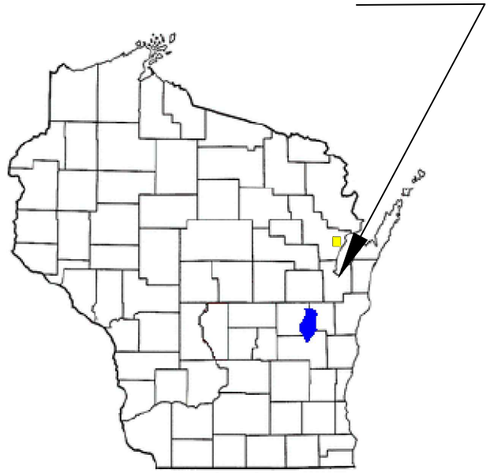
DESIGNED BY:
MULTIMEDIA COMMUNICATIONS & ENGINEERING, INC.
PH. 920-314-0979
EMAIL: dbecker@mcewi.com

PERMITS REQUIRED:
CITY OF ASHWAUBENON OBSTRUCTION PERMIT

TABLE OF CONTENTS:
TITLE PAGE
OVERVIEW PAGE
EROSION CONTROL BMP LOGICAL DIAGRAM
SCALED 1:50 SHEETS (3 PAGES)
INTERIOR DIAGRAMS (2 PAGES)

Project Location

City of Ashwaubenon, WI



COORDINATE SYSTEM: Brown County Coordinate System

Legend

- = Telco
- = Cable TV
- = Electric
- = Gas
- = Water
- = Sanitary Sewer
- = Storm Sewer
- = Private Fiber Optic
- = New Underground Fiber
- = Existing Underground Fiber
- = New Handhole
- = Existing Handhole
- = Locate Station
- = Fiber Ped
- = Electric Ped
- = Telco Ped
- = Cable TV Ped
- = Traffic Control Box
- = Electric Transformer
- = Gas Valve
- = Water Valve
- = Fire Hydrant
- = Catch Basin
- = Round Catch Basin
- = Manhole
- = Utility Pole
- = Power Pole
- = Power Transformer Pole
- = Street Light
- = Pole Anchor
- = Aerial Fiber
- = Overhead Guy
- = Aerial Expansion Loop
- = Aerial Splice
- = Standoff
- = Culvert
- = Railroad Light
- = Traffic Light
- = Pull Box
- = Tree

Typical Install Depth is 36"

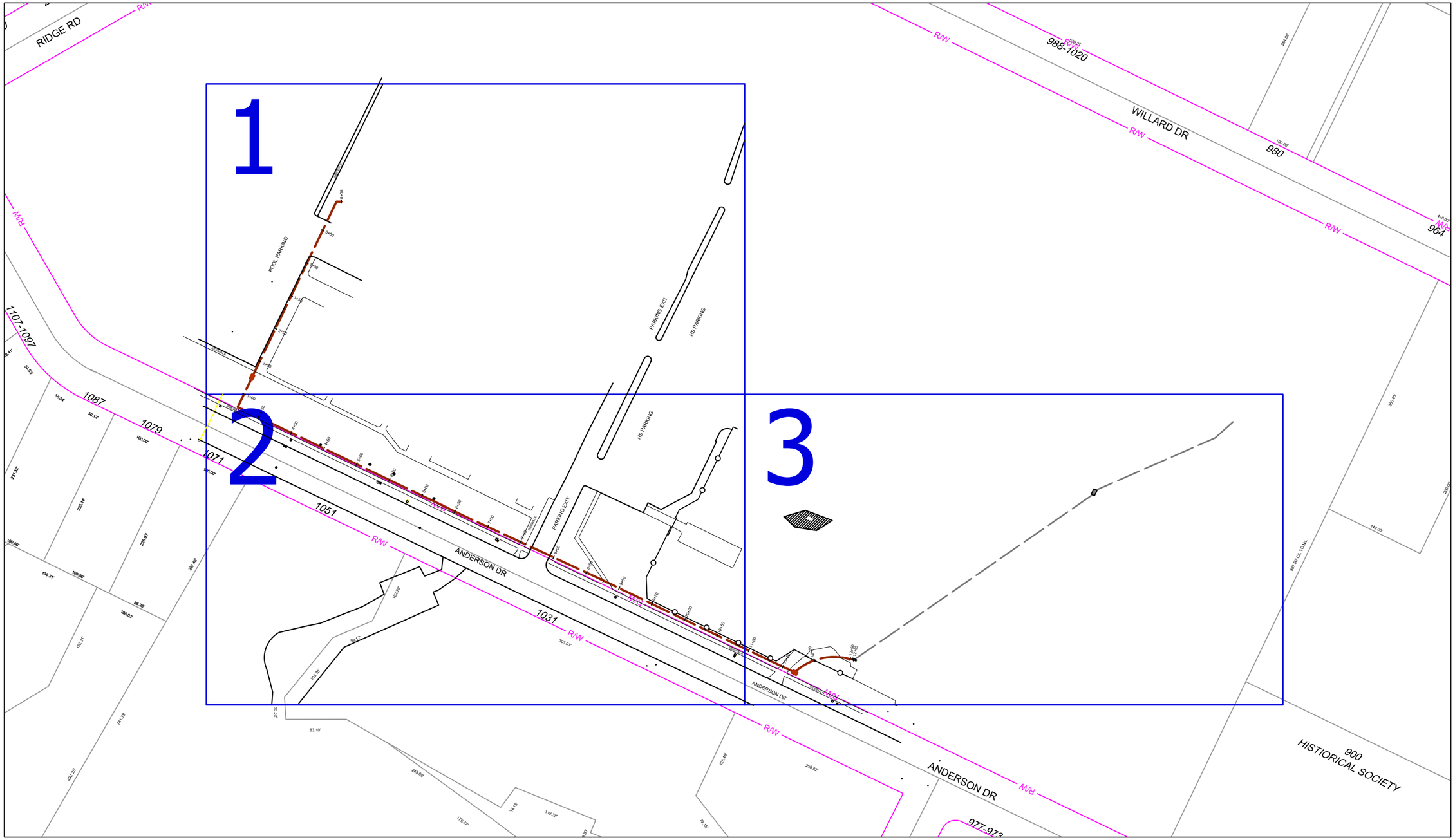
DIGGERS HOTLINE

CALL DIGGERS HOTLINE 3 DAYS BEFORE DIGGING:
AT 811 OR (800) 242-8511
EMERGENCY ONLY: (262) 432-7910

ALL UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE. UTILITY INFORMATION WAS PROVIDED IN RESPONSE TO PLANNING LOCATE REQUESTS. CONSTRUCTION CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF MUNICIPAL AND PRIVATE UTILITIES; COMPLETE REPAIR OF ANY AND ALL DAMAGES & RESTORATION INCURRED SHALL BE AT THE EXPENSE OF THE CONTRACTOR. FACILITY PLACEMENT SUBJECT TO CHANGE UPON FIELD LOCATE COMPLETION.

RIGHTS-OF-WAY ARE DEPICTED BASED ON FIELD OBSERVATIONS AND THE LATEST STATE AND COUNTY RECORDS AVAILABLE.

DISCLAIMER:
Locations are approximate. This data has been prepared, in part, based upon information furnished by others. While this information is believed to be reliable, Multimedia Communications & Engineering, Inc. (MC&E) assumes no responsibility for the accuracy of this data or for any errors or omissions that may have been incorporated into it as a result of incorrect information provided to MC&E. Those relying on this data are advised to obtain independent verification of its accuracy.
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ASHWAUBENON SD
HS TO PARKVIEW

SHEET GROUP:
OVERVIEW

SHEET ID:
OV1

Print Date: 7.16.2026

EXCAVATIONS

Excavations shall not remain open in excess of 24 hours unless specific permission is obtained from the City Engineer.

All excavations and trenches shall be covered and/or properly barricaded after working hours and over the weekend.

In all streets, alleys, sidewalks or other public ways, whether improved or unimproved, all excavated material shall be removed and the trench shall be backfilled with flow-able filled slurry mix.

At no time can spoils or other debris be stored or piled in the street gutter.

Excavation stock piling must remain within the public right of way and cannot be placed on or impede any roadways, driveways, sidewalks, or fire hydrants. Any areas that have minimal public right of way available must stock pile the excavated material on a truck bed or trailer. No stock piling of excavated material will be allowed on private property.

Excavations are to remain outside of wetland areas. All excavations must have proper erosion control practices to prevent stock piled materials from entering wetland areas.

Excavations are to remain 75' from the high-water mark of and waterway. Any excavations must have proper erosion control practices to prevent stock piled materials from entering waterways.

All excavations and trenches shall be covered and/or properly barricaded after working hours and over the weekends.

EROSION CONTROL PLAN

Any open excavations, construction areas or standing debris piles that pose the threat debris runoff will require erosion control practices such as placing silt socks, placing hay bales, or placing silt fencing downill of the area.

The Contractor must employ the following good housekeeping practices that will prevent the ingress of any excavated materials into the Municipal storm water system:

1) Cover Storm Sewer Inlet with DOT Filter Fabric (DOT Type FF, not felt or silt fence material) near areas where excavation and directional drilling operations occur. DOT Type C Inlet protection standards apply (2x4 across back of inlet with DOT Filter Fabric over inlet held in place by inlet cover). Type D Inlet Protection including waddles (fiber filled filter socks) around drains to prevent debris from entering the storm sewer system are required at any low area inlets.

2) Place Silt Fence Barrier around excavation per below typical specification Diagram. Silt Fence to be inspected prior to excavation.

3) Place silt sock Barrier around Spoils to prevent runoff ingress into Storm Water Management System.

4) Protect graded restoration area using fibrous matting to prevent erosion into Storm Water Management System

5) Place temporary soil stabilization materials to prevent erosion into Storm Water Management System.

All erosion control measures shall be inspected on a weekly basis and/or after ½" or more of rainfall to ensure the effectiveness of the erosion control measures.

DEWATERING

Dewatering of pits, trenches, handholes, or manholes must be done with the use of a sediment bag, a straw bale dewatering basin, or approved equivalent. All dewatering procedures must meet or exceed state standards. All Vacuum Excavation spoils are to be transported and disposed of offsite at an approved dumping station. Dewatering is expected to be negligible given the depth of installation and the nature of the directional boring operations for this project.

FRAC-OUT CONTINGENCY PLAN

Boring activities and bore path are to be continually monitored to observe potential frac-outs. Erosion control materials are to be accessible and onsite should a frac-out occur. Acceptable materials include silt fence, straw bales, and sand bags. As soon as a frac-out is discovered, erosion control must immediately be implemented around the frac-out material (bentonite-water mixture). A vacuum excavation machine is to be accessible on short notice to clean any frac-out material should it occur.

RESTORATION

The Contractor may be allowed to mechanically core through hard surface streets to locate existing utilities provided that the restoration of the core be performed per the specific requirements of the Municipality or Agency having jurisdiction. Core holes must be backfilled with a slurry mixture as specified by the DOT per permitting requirements. The original Concrete or Asphalt core can then be replaced using Plug and Epoxy method.

Potholing is not allowed in ADA compliant or non-compliant pedestrian ramps. Any hard surface excavations within any pedestrian ramp panels will result in the Contractor's replacement of the entire ADA Compliant panel, along with adjacent panels at the Contractor's expense.

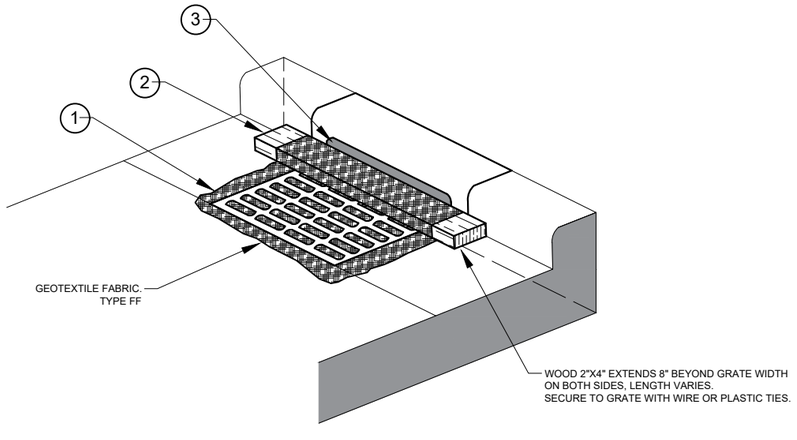
At no time can the Contractor perform any excavation that undermines the adjacent in-tact surfaces, thereby making vertical mechanical compaction impossible and creating future potential for subsurface failure. This scenario will result in the replacement of the effected hard-surface to the permitting authority's specifications.

All disturbed lawns, vegetation, flowers, shrubbery, trees, landscaping, etc. must be replaced or restored to its previous condition or better. Lawn repair will require a minimum of 4" of black dirt and municipal approved grass blends are to be applied.

All areas of restoration using Black Dirt and Seed must be protected with biodegradable net-free fibrous matting. Placement of loose straw or other materials that can be easily blown away or otherwise eroded/removed from the restored area will not be permitted. Fibrous matting materials will must be included in the Contractor Cut Sheets and approved by the Owner for use prior to placement.

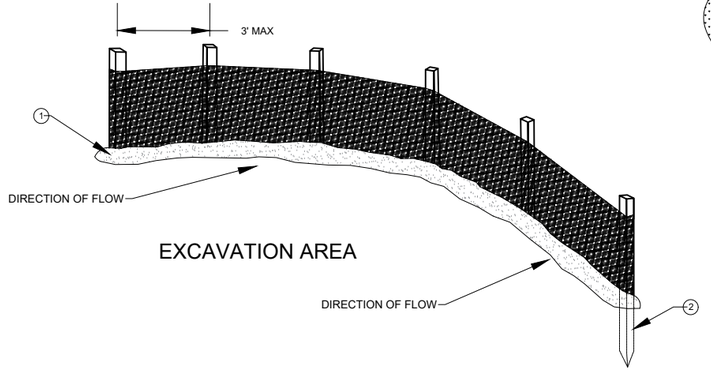
INLET PROTECTION

1. FINISHED SIZE INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
2. FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES.
3. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING TO FACILITATE OVERFLOW DRAINAGE DURING HIGH WATER EVENTS.



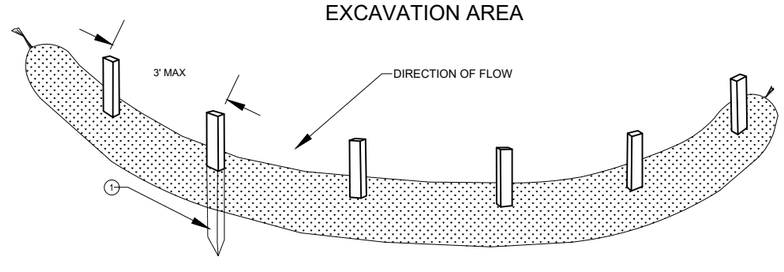
SILT FENCE

1. MOUND BLACK DIRT OVER BOTTOM 6" OF SILT FENCE TO PREVENT SEDIMENT EGRESS FROM EXCAVATION AREA
2. STAKE 12" MINIMUM DEPTH INTO GROUND



SILT SOCK

1. STAKE 12" MINIMUM DEPTH INTO GROUND





SEE SHEET 2

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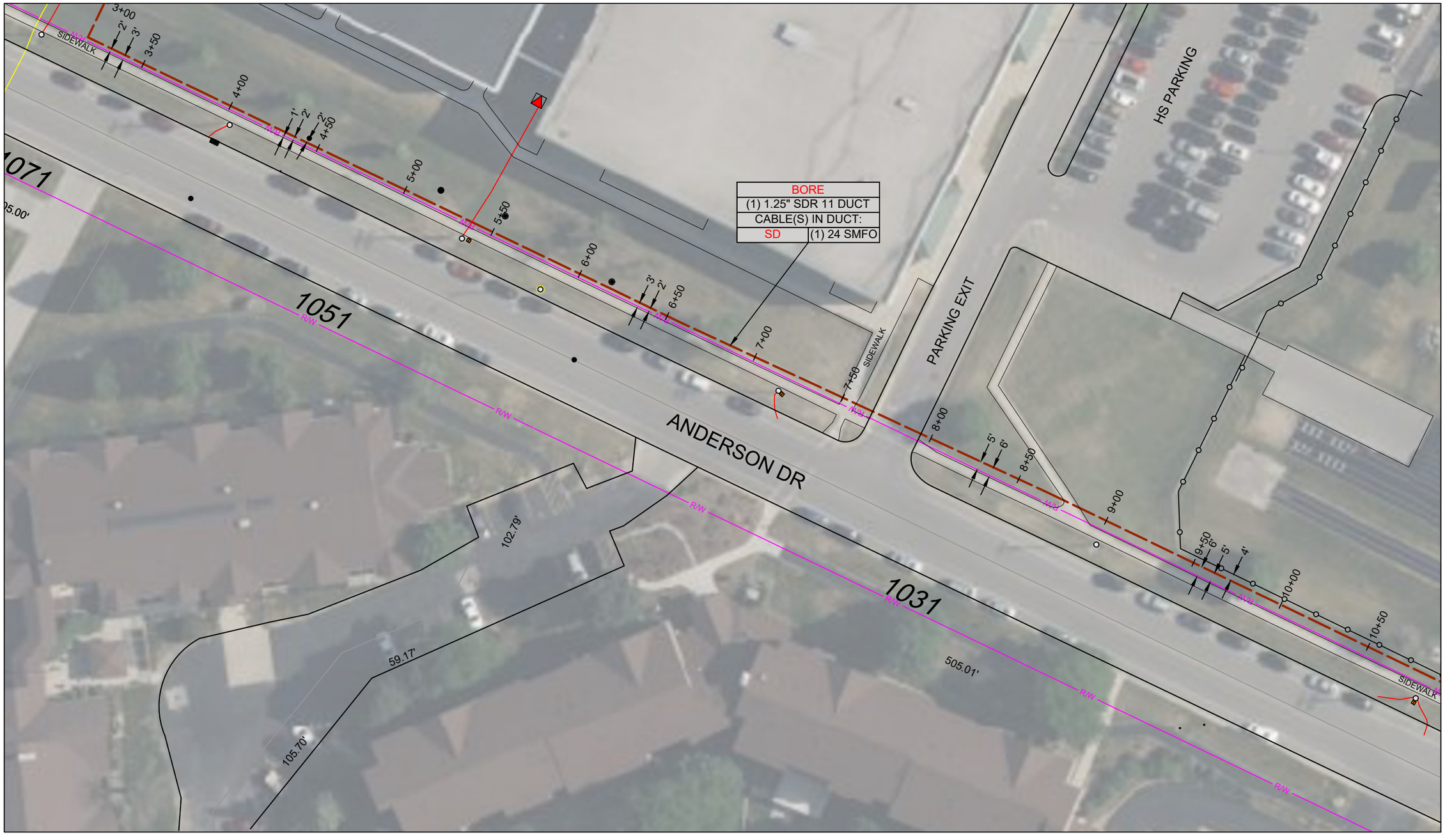
SHEET GROUP:
1:50 Scaled Plans

SHEET ID:
01

Print Date: 7.16.2026

PERMITS REQUIRED ON THIS SHEET: NO PERMITS REQUIRED

SEE SHEET 1



SEE SHEET 3

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0 50' 100' N

Scale: 1" = 50' ANSI B/Tabloid

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SHEET GROUP:
1:50 Scaled Plans

SHEET ID:
02

Print Date: 7.16.2026

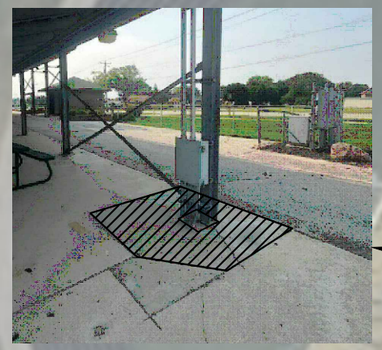
PERMITS REQUIRED ON THIS SHEET: NO PERMITS REQUIRED

EXISTING DUCT ENTRY



EXISTING HANDHOLE	
HANDHOLE #	03-02
DIMENSIONS:	24X36X36
LOOP FOOTAGE	150
SPLICE CASE	NO
LOCATE STATION	NA
DISTANCE TO NEXT BUILDING	215'

Pull Thru Existing Duct Approx. 220'	
EXISTING DUCT	
CABLE(S) IN DUCT:	
SD	(1) 24 SMFO



36sq ft Concrete Restoration around NEMA Box

EXISTING NEMA 3R BOX	
DIMENSIONS:	24X16X6
LOOP FOOTAGE	0'
SPLICE CASE	NO
LOCATE STATION	NA
DISTANCE TO NEXT HANDHOLE	400'
Transition from HDPE to PVC into NEMA Box	

Pull Thru Existing Duct Approx 405'	
EXISTING DUCT	
CABLE(S) IN DUCT:	
SD	(1) 24 SMFO

BORE	
(1) 1.25" SDR 11 DUCT	
CABLE(S) IN DUCT:	
SD	(1) 24 SMFO

SEE SHEET 2

11+00 6' 6' 3' 11+50 12+00 12+50 12+55 5' 4' SIDEWALK ANDERSON DR

36sq ft Concrete Restoration around NEMA Box

NEW HANDHOLE	
HANDHOLE #	03-01
DIMENSIONS:	24X36X36
LOOP FOOTAGE	150
SPLICE CASE	NO
LOCATE STATION	FLUSH MT
DISTANCE TO NEMA BOX	90'

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0 50' 100' N

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SHEET GROUP:
1:50 Scaled Plans

SHEET ID:
03

Print Date: 7.16.2026

PERMITS REQUIRED ON THIS SHEET:NO PERMITS REQUIRED

Existing 2" Innerduct 440' total

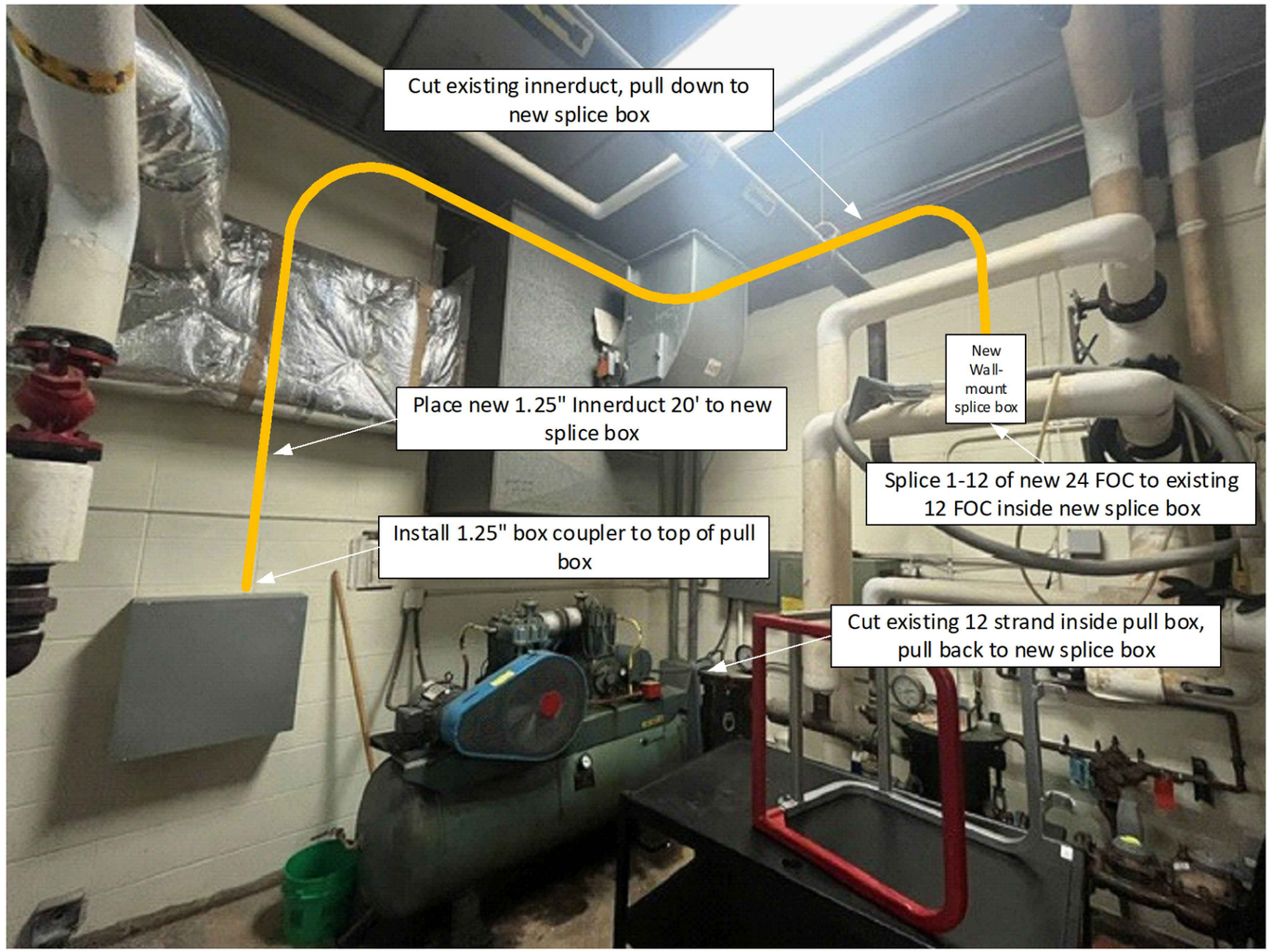
Existing 12"x12" Type I Pull Box



Multimedia Communications & Engineering, Inc. PO Box 11064 Green Bay, WI 54307 P: 877.870.6968	0 50' 100' N *Scale: 1" = 50' ANSI B/Tabloid*	ASHWAUBENON SD HS TO PARKVIEW	SHEET GROUP: High School Plans	SHEET ID: ISP

Print Date: 7.16.2026

PERMITS REQUIRED ON THIS SHEET:



Multimedia Communications & Engineering, Inc.
PO Box 11064 Green Bay, WI 54307
P: 877.870.6968

0 50' 100' N

Scale: 1" = 50' ANSI B/Tabloid

ASHWAUBENON SD
HS TO PARKVIEW

SHEET GROUP:
Parkview Plans

SHEET ID:
ISP 2

Print Date: 7.16.2026

PERMITS REQUIRED ON THIS SHEET:

Ashwaubenon HS to Parkview MS

PROJECT OWNER:
Ashwaubenon School District
2391 S Ridge Rd,
Green Bay, WI 54304

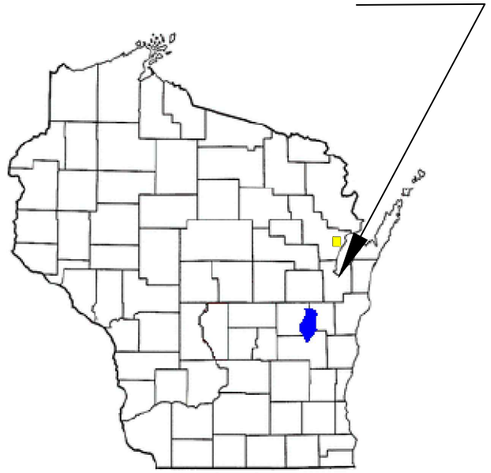
DESIGNED BY:
MULTIMEDIA COMMUNICATIONS & ENGINEERING, INC.
PH. 920-314-0979
EMAIL: dbecker@mcewi.com

PERMITS REQUIRED:
CITY OF ASHWAUBENON OBSTRUCTION PERMIT

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TITLE PAGE
OVERVIEW PAGE
EROSION CONTROL BMP LOGICAL DIAGRAM
SCALED 1:50 SHEETS (3 PAGES)
INTERIOR DIAGRAMS (2 PAGES)

Project Location

City of Ashwaubenon, WI



COORDINATE SYSTEM: Brown County Coordinate System

Legend

- = Telco
- = Cable TV
- = Electric
- = Gas
- = Water
- = Sanitary Sewer
- = Storm Sewer
- = Private Fiber Optic
- = New Underground Fiber
- = Existing Underground Fiber
- = New Handhole
- = Existing Handhole
- = Locate Station
- = Fiber Ped
- = Electric Ped
- = Telco Ped
- = Cable TV Ped
- = Traffic Control Box
- = Electric Transformer
- = Gas Valve
- = Water Valve
- = Fire Hydrant
- = Catch Basin
- = Round Catch Basin
- = Manhole
- = Utility Pole
- = Power Pole
- = Power Transformer Pole
- = Street Light
- = Pole Anchor
- = Aerial Fiber
- = Overhead Guy
- = Aerial Expansion Loop
- = Aerial Splice
- = Standoff
- = Culvert
- = Railroad Light
- = Traffic Light
- = Pull Box
- = Tree

Typical Install Depth is 36"

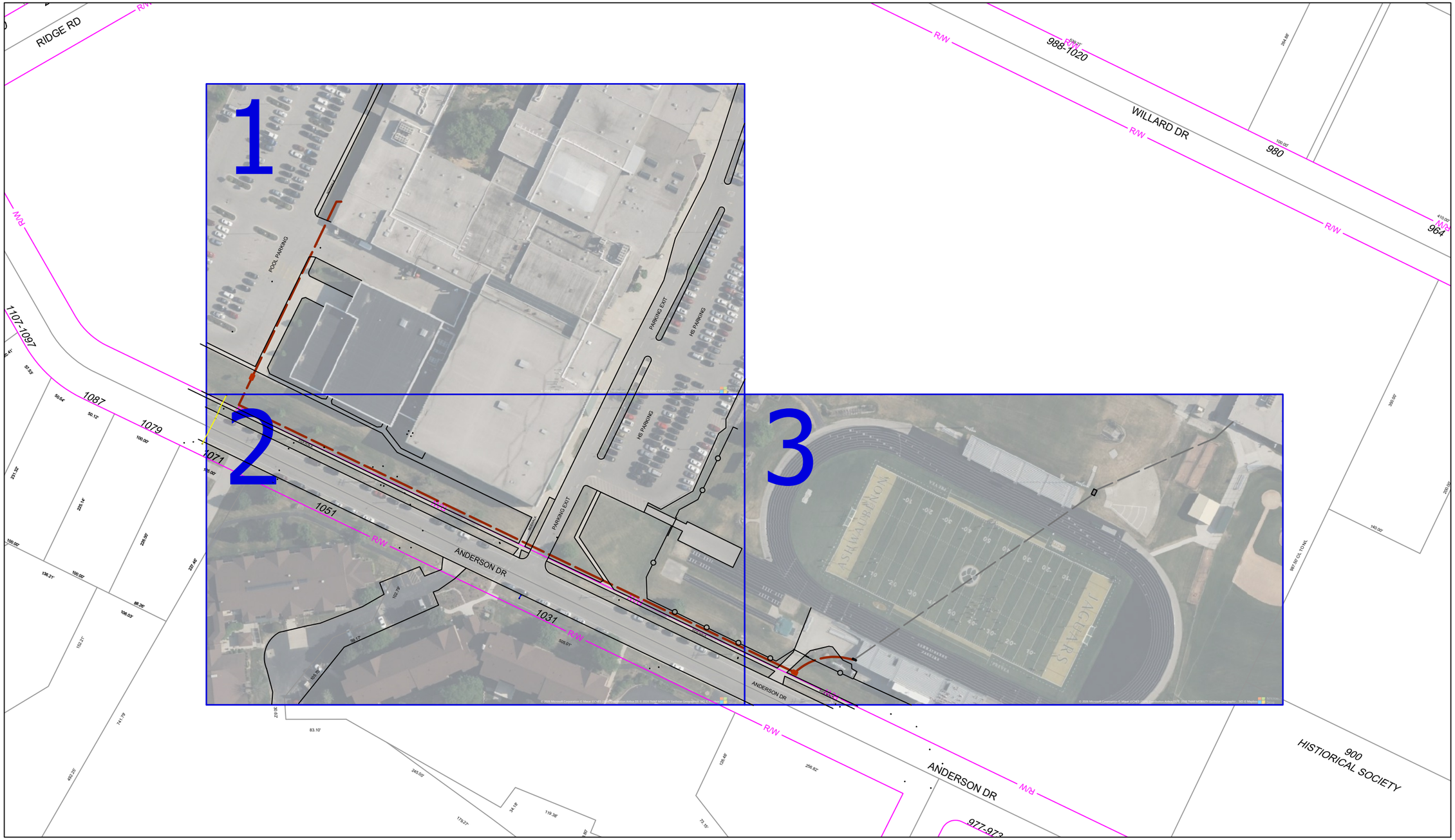
DIGGERS HOTLINE

CALL DIGGERS HOTLINE 3 DAYS BEFORE DIGGING:
AT 811 OR (800) 242-8511
EMERGENCY ONLY: (262) 432-7910

ALL UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE. UTILITY INFORMATION WAS PROVIDED IN RESPONSE TO PLANNING LOCATE REQUESTS. CONSTRUCTION CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF MUNICIPAL AND PRIVATE UTILITIES; COMPLETE REPAIR OF ANY AND ALL DAMAGES & RESTORATION INCURRED SHALL BE AT THE EXPENSE OF THE CONTRACTOR. FACILITY PLACEMENT SUBJECT TO CHANGE UPON FIELD LOCATE COMPLETION.

RIGHTS-OF-WAY ARE DEPICTED BASED ON FIELD OBSERVATIONS AND THE LATEST STATE AND COUNTY RECORDS AVAILABLE.

DISCLAIMER:
Locations are approximate. This data has been prepared, in part, based upon information furnished by others. While this information is believed to be reliable, Multimedia Communications & Engineering, Inc. (MC&E) assumes no responsibility for the accuracy of this data or for any errors or omissions that may have been incorporated into it as a result of incorrect information provided to MC&E. Those relying on this data are advised to obtain independent verification of its accuracy.
Tickets -



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Print Date: 7.15.2026

EXCAVATIONS

Excavations shall not remain open in excess of 24 hours unless specific permission is obtained from the City Engineer.

All excavations and trenches shall be covered and/or properly barricaded after working hours and over the weekend.

In all streets, alleys, sidewalks or other public ways, whether improved or unimproved, all excavated material shall be removed and the trench shall be backfilled with flow-able filled slurry mix.

At no time can spoils or other debris be stored or piled in the street gutter.

Excavation stock piling must remain within the public right of way and cannot be placed on or impede any roadways, driveways, sidewalks, or fire hydrants. Any areas that have minimal public right of way available must stock pile the excavated material on a truck bed or trailer. No stock piling of excavated material will be allowed on private property.

Excavations are to remain outside of wetland areas. All excavations must have proper erosion control practices to prevent stock piled materials from entering wetland areas.

Excavations are to remain 75' from the high-water mark of and waterway. Any excavations must have proper erosion control practices to prevent stock piled materials from entering waterways.

All excavations and trenches shall be covered and/or properly barricaded after working hours and over the weekends.

EROSION CONTROL PLAN

Any open excavations, construction areas or standing debris piles that pose the threat debris runoff will require erosion control practices such as placing silt socks, placing hay bales, or placing silt fencing downill of the area.

The Contractor must employ the following good housekeeping practices that will prevent the ingress of any excavated materials into the Municipal storm water system:

1) Cover Storm Sewer Inlet with DOT Filter Fabric (DOT Type FF, not felt or silt fence material) near areas where excavation and directional drilling operations occur. DOT Type C Inlet protection standards apply (2x4 across back of inlet with DOT Filter Fabric over inlet held in place by inlet cover). Type D Inlet Protection including waddles (fiber filled filter socks) around drains to prevent debris from entering the storm sewer system are required at any low area inlets.

2) Place Silt Fence Barrier around excavation per below typical specification Diagram. Silt Fence to be inspected prior to excavation.

3) Place silt sock Barrier around Spoils to prevent runoff ingress into Storm Water Management System.

4) Protect graded restoration area using fibrous matting to prevent erosion into Storm Water Management System

5) Place temporary soil stabilization materials to prevent erosion into Storm Water Management System.

All erosion control measures shall be inspected on a weekly basis and/or after ½" or more of rainfall to ensure the effectiveness of the erosion control measures.

DEWATERING

Dewatering of pits, trenches, handholes, or manholes must be done with the use of a sediment bag, a straw bale dewatering basin, or approved equivalent. All dewatering procedures must meet or exceed state standards. All Vacuum Excavation spoils are to be transported and disposed of offsite at an approved dumping station. Dewatering is expected to be negligible given the depth of installation and the nature of the directional boring operations for this project.

FRAC-OUT CONTINGENCY PLAN

Boring activities and bore path are to be continually monitored to observe potential frac-outs. Erosion control materials are to be accessible and onsite should a frac-out occur. Acceptable materials include silt fence, straw bales, and sand bags. As soon as a frac-out is discovered, erosion control must immediately be implemented around the frac-out material (bentonite-water mixture). A vacuum excavation machine is to be accessible on short notice to clean any frac-out material should it occur.

RESTORATION

The Contractor may be allowed to mechanically core through hard surface streets to locate existing utilities provided that the restoration of the core be performed per the specific requirements of the Municipality or Agency having jurisdiction. Core holes must be backfilled with a slurry mixture as specified by the DOT per permitting requirements. The original Concrete or Asphalt core can then be replaced using Plug and Epoxy method.

Potholing is not allowed in ADA compliant or non-compliant pedestrian ramps. Any hard surface excavations within any pedestrian ramp panels will result in the Contractor's replacement of the entire ADA Compliant panel, along with adjacent panels at the Contractor's expense.

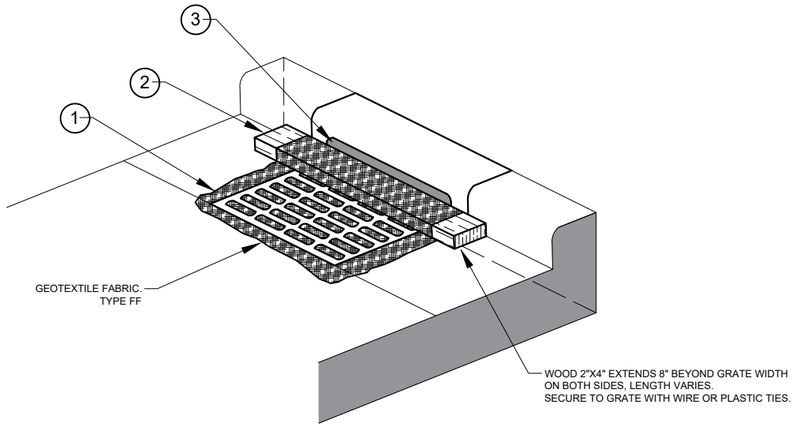
At no time can the Contractor perform any excavation that undermines the adjacent in-tact surfaces, thereby making vertical mechanical compaction impossible and creating future potential for subsurface failure. This scenario will result in the replacement of the effected hard-surface to the permitting authority's specifications.

All disturbed lawns, vegetation, flowers, shrubbery, trees, landscaping, etc. must be replaced or restored to its previous condition or better. Lawn repair will require a minimum of 4" of black dirt and municipal approved grass blends are to be applied.

All areas of restoration using Black Dirt and Seed must be protected with biodegradable net-free fibrous matting. Placement of loose straw or other materials that can be easily blown away or otherwise eroded/removed from the restored area will not be permitted. Fibrous matting materials will must be included in the Contractor Cut Sheets and approved by the Owner for use prior to placement.

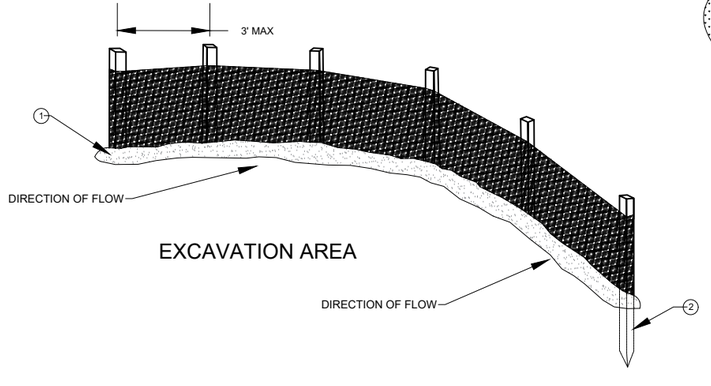
INLET PROTECTION

1. FINISHED SIZE INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
2. FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES.
3. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING TO FACILITATE OVERFLOW DRAINAGE DURING HIGH WATER EVENTS.



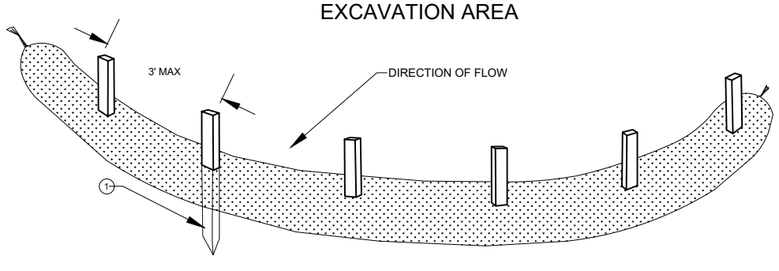
SILT FENCE

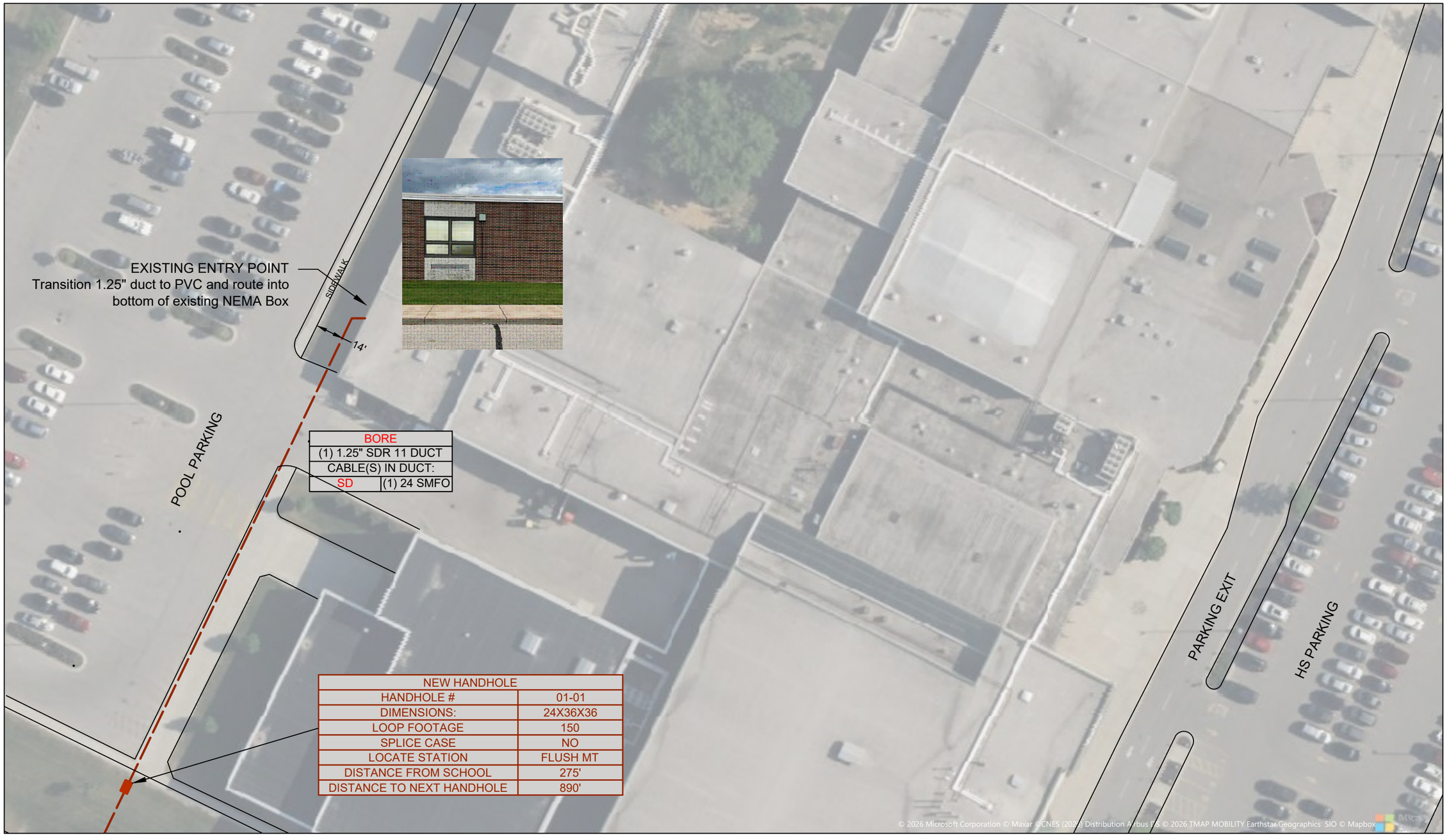
1. MOUND BLACK DIRT OVER BOTTOM 6" OF SILT FENCE TO PREVENT SEDIMENT EGRESS FROM EXCAVATION AREA
2. STAKE 12" MINIMUM DEPTH INTO GROUND



SILT SOCK

1. STAKE 12" MINIMUM DEPTH INTO GROUND





SEE SHEET 2

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ASHWAUBENON SD
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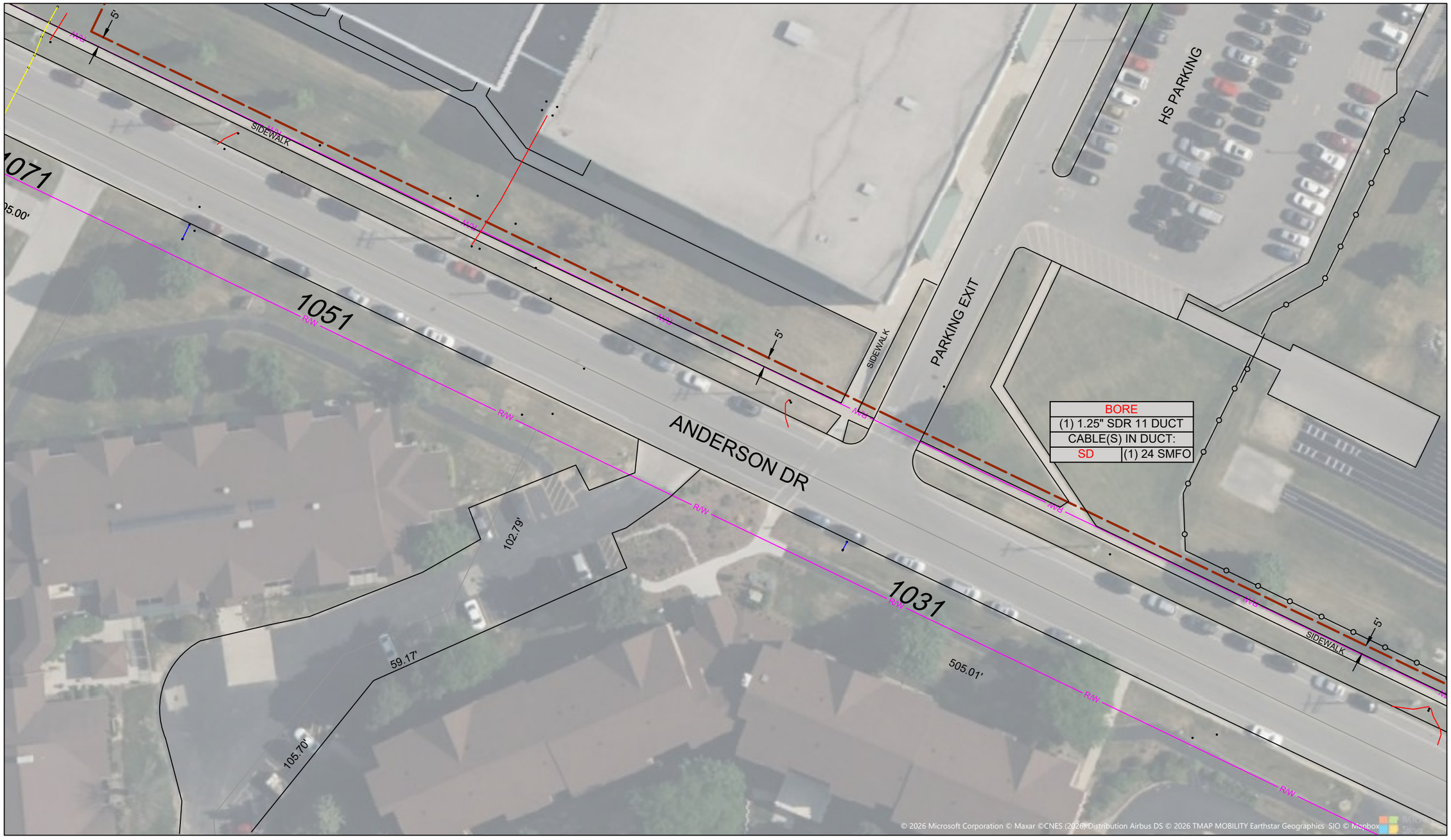
SHEET GROUP: 1:50 Scaled Plans

SHEET ID: 01

Print Date: 7.15.2026

PERMITS REQUIRED ON THIS SHEET:

SEE SHEET 1



SEE SHEET 3

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SHEET GROUP:
1:50 Scaled Plans

SHEET ID:
02

Print Date: 7.15.2026

PERMITS REQUIRED ON THIS SHEET:

EXISTING DUCT ENTRY



EXISTING HANDHOLE	
HANDHOLE #	03-02
DIMENSIONS:	24X36X36
LOOP FOOTAGE	150
SPLICE CASE	NO
LOCATE STATION	NA
DISTANCE TO NEXT BUILDING	215'



36sq ft Concrete Restoration around NEMA Box

EXISTING NEMA 3R BOX	
DIMENSIONS:	24X16X6
LOOP FOOTAGE	0'
SPLICE CASE	NO
LOCATE STATION	NA
DISTANCE TO NEXT HANDHOLE	400'
Transition from HDPE to PVC into NEMA Box	

Pull Thru Existing Duct	
EXISTING DUCT	
CABLE(S) IN DUCT:	
SD	(1) 24 SMFO

BORE	
(1) 1.25" SDR 11 DUCT	
CABLE(S) IN DUCT:	
SD	(1) 24 SMFO

36sq ft Concrete Restoration around NEMA Box

NEW HANDHOLE	
HANDHOLE #	03-01
DIMENSIONS:	24X36X36
LOOP FOOTAGE	150
SPLICE CASE	NO
LOCATE STATION	FLUSH MT
DISTANCE TO NEMA BOX	90'

5'

ANDERSON DR

SIDEWALK

JAGUARS

SEE SHEET 2

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SHEET GROUP:
1:50 Scaled Plans

SHEET ID:
03

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PERMITS REQUIRED ON THIS SHEET:

Existing 2" Innerduct 440' total

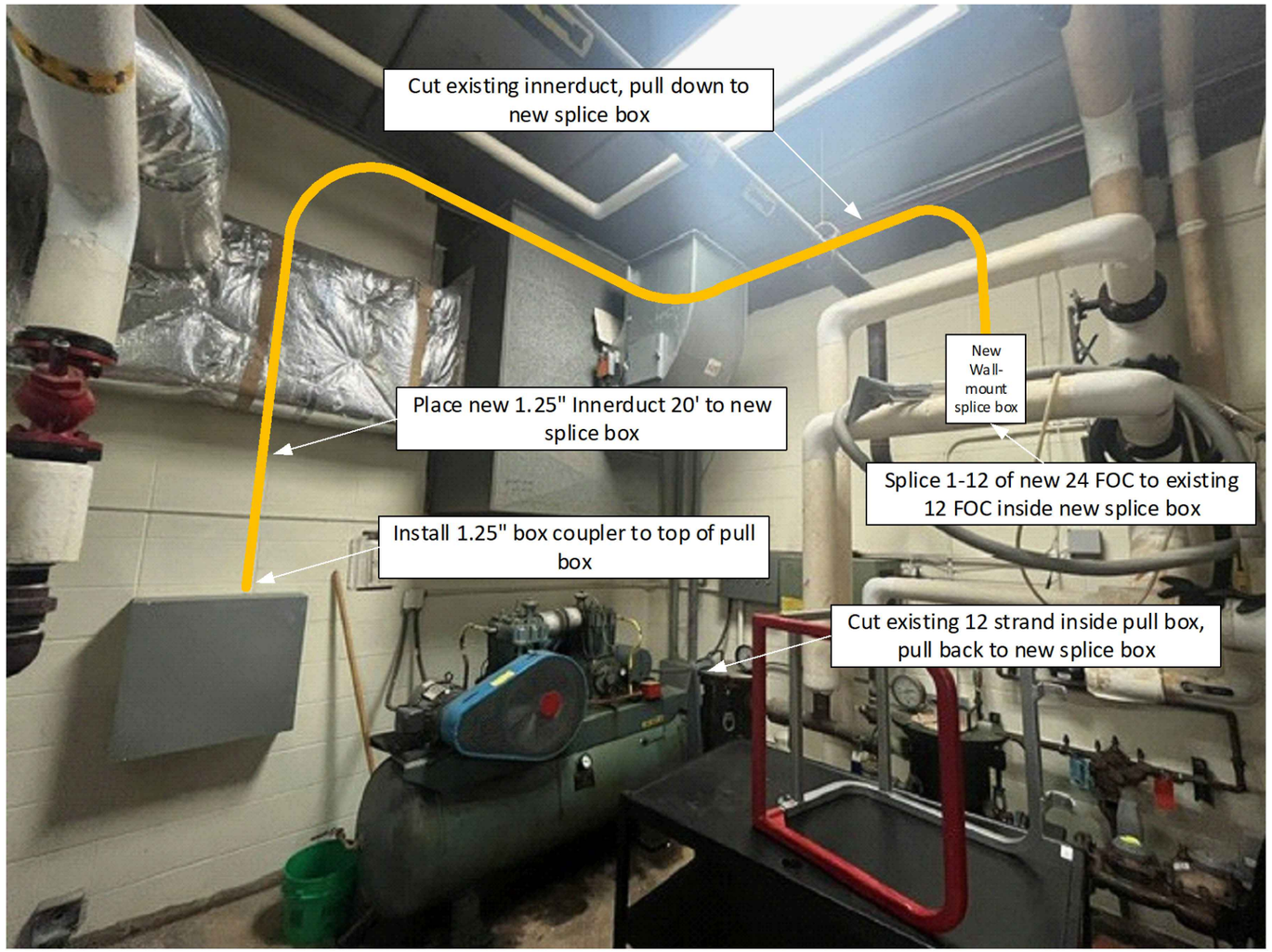
Existing 12"x12" Type I Pull Box



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Print Date: 7.15.2026

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SHEET GROUP:
Parkview Plans

SHEET ID:
ISP 2

Print Date: 7.15.2026

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