AGENDA

- 1. CALL TO ORDER AT 7:00 P.M.
- 2. PLEDGE OF ALLEGIANCE
- 3. ATTENDANCE
- 4. WELCOME TO THE PUBLIC
- 5. ANNOUNCEMENT OF MEETING BEING RECORDED
- 6. ADDITIONS TO THE AGENDA
- 7. APPROVAL OF THE AGENDA
- 8. LIMITED PUBLIC COMMENT ON ANY AGENDA ITEM
- 9. OLD BUSINESS
 - A. DISCUSSION & DECISION ON VARIANCE REQUEST SUBMITTED BY EDWARD AND FLORENCE KUCINICH TRUST
- 10. NEW BUSINESS
- 11. PUBLIC COMMENT
- 12. COMMENTS FROM VISITORS
- 13. COMMENTS FROM MEMBERS
- 14. ADJOURNMENT @

From:

Megan Yankee <megancyankee@gmail.com>

Sent:

Wednesday, August 20, 2025 9:29 PM

To:

offices

Subject:

Gas Station on McGillen

CAUTION: This email originated from outside the Village of Mattawan. Maintain caution when opening external links/attachments

Hello,

I'm writing as a resident if the Village of Mattawan. I'm not able to attend the village meeting on Monday, but I want to take a moment and voice my opposition to the proposed gas station. We love our small town and would hope for more development that considers the needs of the people that live here. This is not it!

We have 4 gas stations within the village. Another in our city center is not needed and adds problems to traffic and will be an eye sore.

Please reach out to me if you need anything else or have any questions.

Megan

Megan Yankee

she/her/hers Phone:

Email: MeganCYankee@gmail.com

From:

Cameo Phelps <clisport@yahoo.com>

Sent:

Wednesday, August 20, 2025 9:31 PM

To:

offices

Subject:

Gas station meeting

CAUTION: This email originated from outside the Village of Mattawan. Maintain caution when opening external links/attachments

To whom it may concern,

I am writing about the upcoming meeting for the potential gas station to be put on the corner of McGillen. I am highly NOT in favor, nor is my family. Does Mattawan need 5 gas stations? No. It absolutely does not. Can we not see a plot of land and leave it alone? Do we always have to build and pollute? I know it will eventually be turned into something, but I/we are abhorrently against it being a gas station.

We hope you take all the voices and votes into consideration and not make it just about money. Thank you for your time!

Most sincerely, Cameo & Matt Phelps

Sent from my iPhone

From:

Patrick Yankee <patrickjyankee@gmail.com>

Sent:

Wednesday, August 20, 2025 9:36 PM

To:

offices

Subject:

NO TO A NEW GAS STATION

CAUTION: This email originated from outside the Village of Mattawan. Maintain caution when opening external links/attachments

No thank you to adding an unwanted, unnecessary traffic causing smelly eyesore to our landscape. There's already 3 gas stations within walking distance of the proposed site. Please come up with a better idea.

Patrick Yankee Mattawan Resident

From:

Sent: Wednesday, August 20, 2025 8:58 PM

To:

offices

Subject:

Re: Public comment for Aug. 11 meeting

CAUTION: This email originated from outside the Village of Mattawan. Maintain caution when opening external links/attachments

Dear Members of the Village Council and Planning Commission,

I was not able to attend the last meeting; however, I was informed by another community member that you did not read my statement due to not addressing the variance with the building size? I need to advise you that I am not in opposition to the size of the building - it could be 5000 sq. feet for all I care - my opposition is to the nature of the business, as is very clearly communicated in my message. I would very much appreciate a form or something explaining, in exact detail, what you need in order to have my opposition shared, because we do not all work in government, and we do not all understand every minute detail of how to participate in this civic process. I am sharing my opinion with you here, as a local business owner who brings in literally hundreds of people at a time to my company that is in town, which also brings in customers to the surrounding businesses in town, and I deserve to have a voice. I am not able to attend this coming meeting, because as per usual, I am working and providing a valuable service for our community and its children and families.

I also HIGHLY, HIGHLY recommend that on Monday, 8/25/25, all of you sit in the Wagoner's parking lot, and you see for yourselves the amount of children that walk into the Village on half days of school. I am going to say that I am extremely, extremely uncomfortable with a franchise gas station going in that close to the school, where any random person could be coming into town, and it doesn't seem to be in anyone's consideration the safety aspect of our community with the kids walking to down on every half day, the fact that this would directly impede safety for our Fire Department, and everything I have previously stated below:

••••••

I am writing to express my strong concern about the proposed Casey's gas station development at the corner of McGillen Avenue and Main Street, directly across from Wagoner's grocery store. I am unable to attend tonight's meeting, but I did want to have my voice heard on this matter.

This project appears to be in direct conflict with the direction our community is growing. With new residential neighborhoods being developed and more families choosing to settle here, Mattawan has an opportunity to encourage projects that reflect and reinforce its values: safety, family-centered spaces, and a vibrant small-town atmosphere. One of the main reasons people

choose Mattawan over larger surrounding cities is its rural charm and small-town feel. The addition of another large, franchise-style gas station does not support or enhance that character. If anything, it detracts from the unique identity that makes this area so attractive to residents. A Casey's may be convenient to the landowners of the estate, but it does not contribute to the sense of place, connection, or community that defines Mattawan.

We already have two well-established gas stations, Shell and Speedway, located nearby, both fully capable of meeting the town's fueling needs. The Speedway was recently remodeled, yet its attached restaurant remains unused, clearly indicating that current demand is already being met. Adding a third gas station will not create new value; it will simply add redundancy, increase traffic congestion, and take up valuable land that could be used for something more beneficial. I have many environmental concerns about having so many gas stations in such a small radius.

The stations we already have to service this area:

- 1. Speedway 24118 Cole Ave
- 2. Shell 54312 N Main St
- 3. Citgo 24039 Red Arrow Hwy
- 4. Marathon (Mattawan Party Store) 24182 Red Arrow Hwy

According to data from the U.S. Census Bureau and NACS (National Association of Convenience Stores): National average: 1 gas station per 2,500 to 3,000 people. According to the latest census estimates, the population of Mattawan, MI (2024 estimate) is 2,700 residents.

Let's not also forget that we have Halftime located in the Historic district, offering another convenience store in town. We already have almost 4.5 times more gas stations per person than the national average; with the Casey's added, it would reach 5.5 times more than the national norm! The local demand does not appear to justify an additional gas station.

This level of fuel service saturation is very high for a town of this size, especially when considering:

Two stations (Shell and Speedway) are recently updated and serve interstate traffic;

- One station includes a convenience store, restaurant, and fuel (Speedway);
- One station also serves dual purposes as a liquor/party store (Marathon)

The Mattawan Fire Department is located directly adjacent to the proposed site. It is difficult to understand how our emergency responders would be expected to safely conduct fire training exercises or manage daily operations with a gas station and fuel storage tanks next door. This presents a real and avoidable conflict between public safety needs and private development interests. Adding a fifth gas station in Mattawan would result in one station for every 540 people, a highly disproportionate number compared to both national trends and the size of the local population. This suggests that another gas station is not needed, and would likely cannibalize existing business while occupying land that could be used for much more community-beneficial development (parks, local shops, public spaces, etc.).

The intersection of McGillen Avenue and Main Street is already congested during school dismissal, business closing hours, and seasonal traffic spikes. A new gas station would only worsen the existing problems at this high-traffic intersection, making it more dangerous and less accessible for residents, emergency vehicles, and local businesses. I have many concerns about the impact on half days of school, where many of the kids walk into town to go to Happy Days, Subway, and Pizza Hut. Development of that area would be amazing for family-friendly businesses, park development, or anything where the hundreds of new families who have moved into town have walkable places to go. This is not the type of development the residents want or need.

If you look just a few miles away to Texas Corners, you will see the kind of development that serves both residents and the economy. They have invested in a farmers market, splash pad, walkable retail, and locally owned restaurants. These are the types of investments that bring communities together, promote small business growth, and increase quality of life. Mattawan has the same potential. We just need to make the right choices now, before available land is gone.

This development is not just about adding another place to buy gas. It is about deciding what kind of town we want to become. Do we want to remain a family-friendly, small-town community with a clear identity and vibrant local spaces? Or do we want to give that up for short-term, corporate convenience?

I respectfully urge the Village Council and Planning Commission to reconsider the approval of this gas station and instead encourage development that supports Mattawan's long-term character, public safety, and community well-being. I am a local business owner in town in the historic district, and my business is serving families with children. In all of the discussions about

this proposal, I have not heard a single positive remark from the public; on the contrary, people are upset that this is what is being proposed for our small town. We have Shell, Speedway, Citgo, and Marathon. We want the land developed for our town's needs, not just developed for the sake of someone making money on our town without consideration for those of us who actually live and work here.

I do not want my name attached to my comments publicly as I do not want my business negatively impacted by speaking out. I feel very passionately about this, however, and I hope that my comments are taken into considation because I deeply value and care for the Mattawan community as a whole. I do want the family who is selling the land to succeed, but not at the expense of the rest of us.

Thank you for your time and consideration.

Sincerely,

Mattawan, MI

From:

Sent: Monday, August 11, 2025 10:49 AM

To: offices@mattawanmi.com <offices@mattawanmi.com>

Subject: Public comment for Aug. 11 meeting

Dear Members of the Village Council and Planning Commission,

I am writing to express my strong concern about the proposed Casey's gas station development at the corner of McGillen Avenue and Main Street, directly across from Wagoner's grocery store. I am unable to attend tonight's meeting, but I did want to have my voice heard on this matter.

This project appears to be in direct conflict with the direction our community is growing. With new residential neighborhoods being developed and more families choosing to settle here, Mattawan has an opportunity to encourage projects that reflect and reinforce its values: safety, family-centered spaces, and a vibrant small-town atmosphere. One of the main reasons people choose Mattawan over larger surrounding cities is its rural charm and small-town feel. The addition of another large, franchise-style gas station does not support or enhance that character. If anything, it detracts from the unique identity that makes this area so attractive to residents. A Casey's may be convenient to the landowners of the estate, but it does not contribute to the sense of place, connection, or community that defines Mattawan.

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met. Adding a third gas station will not create new value; it will simply add redundancy, increase traffic congestion, and take up valuable land that could be used for something more beneficial. I have many environmental concerns about having so many gas stations in such a small radius.

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that my comments are taken into considation because I deeply value and care for the Mattawan community as a whole. I do want the family who is selling the land to succeed, but not at the expense of the rest of us.

Thank you for your time and consideration.

Sincerely,

Mattawan, MI

PERMIT FEE: COMMERCIAL - \$450

VARIANCE REQUEST APPLICATION

RESIDENTIAL - \$400

Date Fee Paid 7/10 25 Check no. 80887
The Variance Request Application will be presented to the Zoning Board of Appeals who will schedule a public hearing. After the public hearing the Zoning Board of Appeals will make a decision on the request without unreasonable delay. Consideration of the Variance Request will be based on the criteria outlined in Sections 23.45 and 23.50 of Ordinance no. 214, Zoning Ordinance, a copy of which is attached.
GENERAL INFORMATION Edward Kucinich & Florence J. Kucinich Trustees of Living Trust Name of Property Ownerof Edward Kucinich & Florence Kucinich
Address of Property Owner1398 Palmetto Drive Portage, MI 49002
Day time Phone number269-599-2805
SPECIFIC VARIANCE INFORMATION Address of property for which Variance is being requested 23449E. McGillen Street Mattawan, MI
Property tax ID number PID: 80-46-700-057-01 Current zoning of property Village General Business District (VGBD)
Description of Variance (Specify which section of the Zoning Ordinance requires a Variance) We are requesting a variance from Section 10.30E of the Village of Mattawan Zoning Ordinance to allow the construction of a gas station convenience store exceeding 1,000 square feet. While buildings over 1,000 sq ft are permitted under special land use in the VGBD, the proposed use includes fueling stations, which are not explicitly addressed in the VGBD as they are in the Highway Business District.
What practical difficulties or unnecessary hardships are present? The proposed development requires a building size that exceeds the 1,000 sq ft threshold to meet modern operational standards for a gas station and convenience store, including safety, accessibility, and customer service needs.
Will the granting of this Variance be detrimental to adjacent property and the surrounding neighborhood? The project will be designed to align with the character of the surrounding area and will not negatively impact adjacent properties or the neighborhood.

other similarly zoned properties?
The property's location and intended use as a fueling station create unique conditions not generally applicable to other VGBD parcels.
application of the VCCB pariotics.
Is the condition or situation of the property unique compared to surrounding properties? The site's proximity to major roads and its suitability for a fueling station make it distinct from other properties in the district.
Is a Variance necessary to allow you to enjoy your property to the same extent as other property owners in the same zoning district and in the vicinity? A variance is necessary to utilize the property in a manner consistent with its location and potential, similar to other commercial properties in the vicinity.
Any other information you would like to add?
I acknowledge that I have been notified that this request will be considered at a public hearing to be held on ato'clock. I certify that all requirements of Article 23 of Ordinance 214 pertaining to Variances will be met.
I understand that no order of the Zoning Board of Appeals permitting the erection or alteration of a building, an open air land use, or a parking lot shall be valid for longer than twelve (12) months, unless such use is established within such period or a permit for such erection or alteration is obtained within such period and such erection or alteration is commenced and proceeds to a completion in accordance with the terms of the permit.
Owner's signature acquely Milais Date 7-10-2024 Owner's signature acquely Milais Date 7-10-2024
Payment not received at time of Application Paid 7/10/25
FOR OFFICE USE ONLY Application approved? TYES NO
Additional comments:
Signature Date

ARTICLE 10 VILLAGE GENERAL BUSINESS DISTRICT (VGBD) -

Section 10.10	Purpose (pg. 88)
Section 10.20	Principal Permitted Uses (pg. 89)
Section 10.30	Special Uses (pg. 91)
Section 10.40	Development Requirements (pg. 93)

Section 10.10 Purpose

The purpose of this district is to permit a wide range of business, retail, and service uses, which are needed to serve the nearby residential areas. It is further the intent of this district to encourage a concentration of uses and high quality site development standards for the mutual advantage of both merchants and consumers to avoid conventional strip commercial development along major streets located within the Village.

Further objectives of this Article include:

- A. To accommodate patrons arriving primarily in personal vehicles
- B. To avoid development that would result in hazards, offensive and loud noises, vibration, smoke, glare, heavy traffic, and late hours of operation.
- C. To serve as a buffer between the Historic Central Business District, Highway Business District, and residential areas within the Village.

Section 10.20 Principal Permitted Uses

No building or land shall be used and no building shall be erected except for one (1) or more of the following specified uses, unless otherwise provided in this Ordinance.

- A. Adult day care and foster care facilities
- B. Art galleries

- C. Bed and breakfast inns
- D. Business service establishments, such as office machine sales and repair, printing, blueprinting; provided that each occupies a total useable floor area of not more than tenthousand (10,000) square feet
- E. Business establishments that perform services on premises such as, but not limited to: banks, savings and loans, and credit unions (including drive-through facilities); brokerage houses; insurance, real estate, and travel agencies
- F. Catering Establishments
- G. Data processing and computing centers with up to ten thousand (10,000) square feet gross floor area
- H. Essential public services when conducted within a completely enclosed building, excluding storage yards
- I. Medical offices with up to ten thousand (10,000) square feet gross floor area
- J. Mixed-use buildings with business, commercial, or service uses on the ground floor and residential, office, or warehouse uses on upper floors
- K. Offices of an executive, administrative, or professional nature with up to ten thousand (10,000) square feet gross floor area
- L. Outdoor cafes and outdoor eating areas
- M. Personal fitness centers up to ten thousand (10,000) square feet gross floor area
- N. Personal service establishments within a completely enclosed building, including but not limited to such uses as: repair shops (watches, radio, television, shoes, etc), tailor and dressmaking shops, beauty parlors and styling salons, barber shops, dry cleaners, photographic studios, film processing outlets, copy centers, interior decorators, and postal

center; provided that each occupies a total usable floor area of not more than ten-thousand (10,000) square feet

- O. Public, quasi-public, and institutional uses such as, but not limited to, municipal buildings and offices, courthouses, public off-street parking facilities, libraries, museums, public safety facilities, parks and playgrounds, post offices, and civic center, but excluding storage yards for any use
- P. Restaurants (excluding drive-in restaurants or those with predominately drive-through facilities), where the patrons are served while seated within the buildings occupied by such establishments
- Q. Retail businesses which supply commodities on the premise of up to ten-thousand (10,000) square feet of gross floor area, such as but not limited to groceries, meats, fruits and produce, dairy products, baked goods, candies, specialty wines, and other specialty food products; and stores selling drugs, dry goods, flowers, clothing, notions, books and magazines, toys, sporting goods, shoes, tobacco products, musical instruments, recorded music, video rentals and sales, gifts and souvenirs, antiques furniture, and hardware
- R. Retail sales in which both a workshop and retail outlet or showroom are required, such as but not limited to, plumbing, electrician, interior decorating, upholstering, printing, photographic-reproducing, radio, and home appliance and similar establishments of similar character, subject to the provision that not more than eighty percent (80%) of the total useable floor area of the establishment shall be used for servicing, repairing, or processing activities and further provided that such retail outlet or showroom activities shall be provided in that portion of the building where the customer entrance is located
- S. Studios for art, music, dance, or theatrical instruction

- T. Veterinary clinics and animal grooming, provided that all activities are conducted within an enclosed building, with up to ten-thousand (10,000) square feet gross floor area
- U. Public utility buildings, telephone exchange buildings, electric transformer stations and substations, and gas regulator stations when operating requirements necessitate the locating within the district in order to serve the immediate vicinity, but not including service or storage yards
- V. Retail establishments whose principal activity is the sale or rental of merchandise within a completely enclosed building of less than sixty-thousand (60,000) square feet of gross floor area, including supermarkets and commercial centers
- W. Theaters, cinemas, assembly halls, community centers, or similar places of assembly, when conducted completely within enclosed buildings
- X. Churches and other facilities normally incidental thereto
- Y. Mortuaries and funeral homes
- Z. Accessory structures and uses customarily incidental to the above permitted uses, including drive-thru service windows, except as otherwise noted in this Article

Section 10.30 Special Uses

The following uses shall be considered conditional and shall require a special use approval, and shall comply with any applicable special use requirements of Article 21:

- A. Automobile and other vehicle wash facilities
- B. Bars, taverns, pubs and brewpubs, cocktail lounges, and nightclubs
- C. Business schools, colleges, universities, or private schools operated for a profit

- D. Commercial parking lots and structures
- E. Commercial greenhouses, nurseries, and garden centers less than one-thousand (1,000) square feet
- F. Commercial parking lots and structures
- G. Hospitals
- H. Indoor recreational centers such as, but not limited to bowling alleys, roller and ice skating rinks, pool or billiard halls, pinball and mechanical device arcades, and other general indoor recreation facilities
- I. Open air business uses, such as but not limited to retail sales of trees, shrubs, plants, flowers, topsoil, fruit, vegetables, and miniature golf
- J. Party Stores
- K. Rental facilities
- L. Veterinary hospitals and clinics, boarding, or other similar uses, with outdoor pens
- M. Automotive fueling stations including those combined with convenience stores of less than one-thousand (1,000) square feet, or automotive fueling stations and automobile service centers/stations, without accessory or combined convenience stores
- N. Other commercial uses not specifically stated or implied elsewhere which, in the determination of the Planning Commission, are similar to the principal permitted uses provided herein, and in harmony with the character of the District and the purpose and intent of this Article and the Village of Mattawan Master Plan

Section 10.40 Development Requirements

The following requirements shall be met within a Village General Business District (VGBD):

- 1. Site plan approval for all permitted and conditional uses as specified in Article 15 of this Ordinance.
- 2. Off-street parking, loading, and access management standards for all uses as specified in Article 20 of this Ordinance.
- 3. Signs for all uses as specified in Article 19 of this Ordinance.
- 4. Height, area, lot coverage, yard regulations, building mass, and yard regulations as specified in Article 16 of this Ordinance.
- 5. Landscaping requirements as specified in Article 18 of this Ordinance.
- 6. Design, architectural, and building material standards as specified in Article 17 of this Ordinance.

ARTICLE 23 ZONING BOARD OF APPEALS

Section 23.05	Purpose (pg. 305)
Section 23.10	Creation; Membership; Terms of Office (pg. 305)
Section 23.15	Legal Counsel (pg. 306)
Section 23.20	Rules of Procedure (pg. 306)
Section 23.25	Appeals (pg. 306)
Section 23.30	General Powers and Duties (pg. 307)
Section 23.35	Administrative Reviews (pg. 307)
Section 23.40	Interpretation of District Boundaries (pg. 308)
Section 23.45	Variances (pg. 308)
Section 23.50	Standards for Judging Appeals and Variances (pg. 309)
Section 23.55	Conditions of Appeals and Variances (pg. 310)
Section 23.60	Effective Period of Orders (pg. 310)
Section 23.65	Appeals to Circuit Court (pg. 311)
Section 23.70	Stay of Proceedings (pg. 311)
Section 23.75	Fees (pg. 311)

Section 23.05 Purpose.

In order that the objectives of this Ordinance may be fully and equitably achieved, that a means shall be provided for the competent interpretation of the Ordinance, that adequate but controlled flexibility be provided in the application of this Ordinance, that the health, safety, and welfare of the public is secured, and that justice be done, there is hereby established a Zoning Board of Appeals.

Section 23.10 Creation; Membership; Terms of Office.

There is hereby established in and for the Village of Mattawan, a Zoning Board of Appeals, which shall perform its duties and exercise its powers as provided in Section 5 of Act 207 of the Public Acts of 1921, as amended (MCLA 125.585), in such a way that the objectives of this Ordinance shall be observed, public safety secured and substantial justice done.

The Village Council shall serve as the Zoning Board of Appeals and shall consist of these individuals then serving on the Village Council and the terms of the members of the Board of Zoning Appeals shall coincide with their terms as Council members. The Village President shall serve as the Chairperson, the Village President Pro-Tem shall serve as the Vice-Chairperson, and the Village Clerk shall serve as the Secretary of the Zoning Board of Appeals.

Section 23.15 Legal Counsel.

The Village Attorney or his or her representative shall act as legal counsel for the Board and, subject to prior approval of the Village Council, shall be present at meetings of the Board upon request.

Section 23.20 Rules of Procedure.

- A. Hearings shall be public and minutes, including action taken by the members, shall be kept for public record by its designated Secretary, and submitted to the Village Clerk for filing.
- B. A quorum will consist of a majority of members present.
- C. A two-thirds (2/3) majority of the members present affirmative vote shall be required to reverse any order, requirement, decision, or determination of any administrative official in the use of this Ordinance and to grant any variances from uses of land which may be permitted by this Ordinance.
- D. Records and minutes shall be recorded of all proceedings which shall contain evidence and data relevant to every case considered together with the votes of the members and the final disposition of such case. The grounds of every determination shall be stated. Such minutes shall accompany and be attached to the standard forms required to persons appealing as part of the Zoning Board of Appeals= permanent records.

Section 23.25 Appeals.

A. An appeal may be taken to the Zoning Board of Appeals by any person, officer, department, board or bureau affected by a decision of the Village concerning this Ordinance. Such appeal shall be taken within thirty (30) days from the decision by filing with the Zoning Official and with the Board a notice of appeal specifying the grounds thereof. The Zoning Official shall forthwith transmit to the Board all of the papers constituting the record upon which the action appealed from was taken.

B. The Board shall select a reasonable time and place for the hearing of the appeal, shall give due notice thereof to the parties, and shall render a decision on the appeal without

unreasonable delay. Any person may appear and testify at the hearing either in person or by

duly authorized agent or attorney.

C. The Board, in conducting any public hearing, shall fix a reasonable time for the hearing of

the appeal and shall give due notice to the parties concerned, including all owners of record

of property and occupants of single and two-family dwellings thereof, if not the owner of

record, within three hundred (300) feet of the premises in question. For structures containing

more than four (4) dwelling units owned or leased by different individuals, partnerships,

businesses, or organizations, notice shall be given to the manager or owner of the structure

who shall be requested to post the notice at the primary entrance to the structure.

Such notice shall be delivered at least five (5) days before the date set for the hearing. The

board shall decide the appeal within a reasonable period of time.

Section 23.30 General Powers and Duties.

The Board shall have the specific powers and duties as set forth in this Article, all jurisdiction and

powers prescribed in other chapters of this Ordinance or the Code of Ordinances, and all jurisdiction

and powers granted by Act 207 of the Public Acts of 1921, as amended (MCLA 125.581 et seq.)

The power or authority to alter or change this Ordinance or the Zoning Map remains reserved to the

Village Council in the manner provided by law.

Section 23.35 Administrative Review.

The Zoning Board of Appeals may hear and decide appeals when it is alleged by the appellant that

there is an error of law in any order, requirement, permit, decision, determination, or refusal made by

any administrative official in carrying out or enforcing this Ordinance.

Village of Mattawan Zoning Board of Appeals Article 23

307

Section 23.40 Interpretation of District Boundaries.

The Zoning Board of Appeals shall interpret the official Zoning Map of the Village of Mattawan, including the interpretation of the specific locations of zoning district boundaries when in doubt.

Section 23.45 Variances.

- A. The Zoning Board of Appeals may authorize, upon an appeal, a variance from the strict application of any provision of this Ordinance, where, by reason of exceptional irregularity, narrowness, shallowness, shape, or area of a specific piece of property at the effective date of this Ordinance, or by reason of exceptional topographic conditions or other extraordinary or exceptional conditions of such property, the strict application of this Ordinance would result in peculiar or exceptional practical difficulties to or unnecessary undue hardship upon the owner of such property.
- B. In hearing and deciding appeals for variances, the Board shall adhere to the following criteria in determining whether or not practical difficulties and/or unnecessary hardships exist:
 - 1. That if the property owner complies with this Ordinance, he or she can secure no reasonable return from or make no reasonable use of his or her property;
 - 2. That the hardship results from the application of this Ordinance to his or her property, rather than from some other factor;
 - 3. That the hardship of which he or she complains is suffered merely by his or her property directly and not by others;
 - 4. That the hardship is not the result of his or her own actions; and
 - 5. That the hardship is peculiar to the property of the applicant.

The Board shall grant no variance, if it finds an applicant does not meet all of the above listed criteria for determining whether or not a practical difficulty and/or unnecessary hardship exists.

Section 23.50 Standards for Judging Appeals and Variances.

In consideration of all appeals and proposed variations of this Ordinance, the Zoning Board of Appeals shall, before making any variation from this Ordinance, in a specific case, first determine that the proposed variation affirmatively meets all of the following general standards:

- A. A practical difficulty and/or unnecessary hardship exists according to the standards of this Article.
- B. The proposed variation involves exceptional circumstances not found in other areas of the same zoning district.
- C. The proposed variation will be in harmony with the general purposes and intent of this Ordinance.
- D. The proposed variation will not in any respect impair the public health, safety, comfort, or welfare of the inhabitants of the Village.
- E. The proposed use will be of such location, size, and character that it will be in harmony with the appropriate and orderly development of the surrounding neighborhood.
- F. The proposed use will be of a nature that will make vehicular and pedestrian traffic no more hazardous than is normal for the distance involved, taking into consideration vehicular turning movements in relation to routes of traffic flow, proximity and relationship to intersections, adequacy of sight distances, location and access of off-street parking and provisions for pedestrian traffic, with particular attention to minimizing child-vehicle contact.

- G. The location, size, intensity, site layout and periods of operation of such proposed use will be designed to eliminate any possible nuisances emanating therefrom, which nuisance might be noxious to the occupants of any other nearby permitted uses, whether by reason of dust, noise, fumes, vibration, smoke, or lights.
- H. The location and height of buildings or structures and the location, nature, and height of walls and fences will be such that the proposed use will not interfere with or discourage the appropriate development and use of adjacent land and buildings or unreasonably affect their value.

Section 23.55 Conditions of Appeals and Variances.

- A. The Zoning Board of Appeals, in acting favorably on any appeal in connection with a request for a variance may attach any conditions to its approval which it finds necessary to accomplish the reasonable application of the standards set forth in this Article. In addition, the Board may require some form of guarantee that the conditions will be adhered to.
- B. In exercising the powers described in this chapter, the Board may reverse or affirm, wholly or partly, or modify, the order, requirement, decision, or determination appealed from and may make such order, requirement, decision, or determination as ought to be made.

Section 23.60 Effective Period of Orders.

No order of the Zoning Board of Appeals permitting the erection or alteration of a building, an open air land use, or a parking lot shall be valid for longer than twelve (12) months, unless such use is established within such period or a permit for such erection or alteration is obtained within such period and such erection or alteration is commenced and proceeds to a completion in accordance with the terms of the permit.

Section 23.65 Appeals to Circuit Court.

The decision of the Zoning Board of Appeals shall be final. However, a person having an interest

affected by this Ordinance may appeal such decision to the Circuit Court.

Section 23.70 Stay of Proceedings.

An appeal stays all proceedings in furtherance of the action appealed from unless the Zoning Official

certifies to the Zoning Board of Appeals after the notice of the appeal shall have been filed with him

that, for reasons of facts stated in the certificate, a stay would, in his opinion, cause imminent peril to

life or property, in which case proceeding shall not be stayed otherwise than by a restraining order,

which may be granted by the Zoning Board of Appeals or by Circuit Court, upon application.

Section 23.75 Fees.

The Village Council, may from time to time, prescribe and amend, a reasonable schedule of fees to

be charged to the applicants for appeals to the Zoning Board of Appeals. At the time the notice of

appeal is filed, said fee shall be paid to the Village.

Village of Mattawan Zoning Board of Appeals Article 23

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ENGINEER:
CESO, INC.
2800 CORPORATE EXCHANGE DR, SUITE 400
COLUMBUS, OH 42321
PHONE: (440) 773-3461
CONTACT: JEFF LONGHOR, P.E.
EMAIL: LONCHOR@CESOINC.COM
EOR: ZACHARY FRESHNER, P.E.

GOVERNING AGENCIES AND UTILITY COMPANIES:

SEWER: VILLAGE OF MATTAWAN PUBLIC WORKS PHONE: 269-668-2128 CONTACT: TOM ANTHONY EMAIL: TOM@MATTAWANMI,COM

WATER:
VILLAGE OF MATTAWAN PUBLIC WORKS
PHONE: 289-668-2128
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COMMUNICATIONS: SPECTRUM PHONE: 866-874-2389

STORMWATER: VILLAGE OF MATTAWAN PUBLIC WORKS PHONE: 269-688-2128 CONTACT: TOM ANTHONY EMAIL: TOM@MATTAWANMLCOM

PHONE: 269-668-2128 CONTACT: TERRI MCLEAN

PROPERTY DATA:

PARCEL OWNER

KUCINICH EDWARD & FLORENCE

PARCEL ID:

16 262 ACRES

23968 MCGILLEN AVENUE

EXISTING PROPERTY AREA:

EXISTING ZONING:

AG - AGRICULTURE

REQUIRED

10' - PROPERTY

15' - SIDE

PROPOSED ZONING:

VGB - VILLAGE GENERAL BUSINESS C-STORE & GAS STATION

PROPOSED

PROPOSED USE:

BUILDING SETBACKS FRONTAGE ALONG STREET:

PARKING AREA SETBACKS

SIGN SETBACKS:

MAXIMUM BUILDING HEIGHT

TOTAL PARKING SPACES:

PARCEL IS LOCATED WITHIN "ZONE X" AS INDICATED BY THE FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL NUMBER 26198C0375C, EFFECTIVE DATE: 12/03/2009; PUBLISHED BY THE FEDERAL EMERGENCY LEGEND

EXISTING FEATURES LEGEND

BENCHMARK

SIGNAL POLE

SET 5/8" x 30" IRON REBAR WITH SANITARY MANHOLE TELEPHONE BOX CLEANOUT GUY WIRE ANCHOR CATCH BASIN 35. 39 ELECTRIC METER OVHD ELECTRIC LINE ELECTRIC BOX WATER VALVE FIRE HYDRANI

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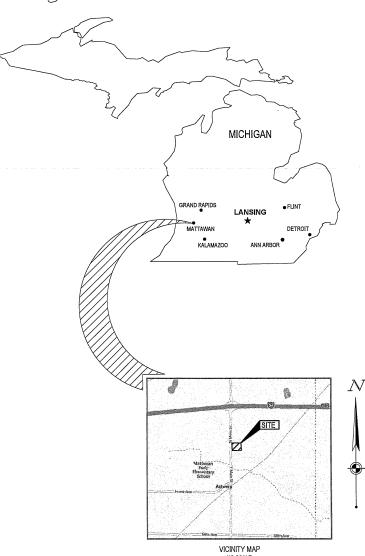
VILLAGE OF MATTAWAN, VAN BUREN COUNTY, MICHIGAN SITE IMPROVEMENTS

CASEY'S #4605

23968 MCGILLEN AVENUE **MATTAWAN, MICHIGAN 49071**



SHEET	LIST TABLE
SHEET NUMBER	SHEET TITLE
C-001	COVER SHEET
C-002	GENERAL NOTES
C-003	ALTA NSPS LAND TITLE SURVE
C-004	ALTA NSPS LAND TITLE SURVE
C-100	DEMOLITION PLAN
C-101	SITE PLAN
C-101A	ALTERNATIVE PAVEMENT PLAN
C-201	GRADING PLAN
C-301	UTILITY PLAN
C-401	SWPPP
C-402	SWPPP DETAILS
C-500	PHOTOMETRIC PLAN
C-601	CONSTRUCTION DETAILS
C-602	CONSTRUCTION DETAILS
C-603	CONSTRUCTION DETAILS
C-604	CONSTRUCTION DETAILS
C-701	LANDSCAPE PLAN
C-702	LANDSCAPE DETAILS











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MATTAWAN,

CASEY'S #4605

@ 2024 CESO, INC.

Project Number: 764183 NO SCALE Drawn By: BTD Checked By: JMS 12/12/2024 PERMIT SET

BEFORE DIGGING IS TO COMMENCE, THE CONTRACTORS

800-482-7171 AND ALL OTHER AGENCIES WHICH MIGHT HAVE

INVOLVING THIS PROJECT AND

COVER SHEET

C-001

BENCHMARK

Vertical Datum: NAVD88 derived from GPS Observation

Benchnail set west side of power pole, next to green cable box, east side of Main Street, southwest corner of Mattawan Fire Station property. Elevation = 840.27

Chiseled "X" on southeast bolt of signal pole base, behind sidewalk on northwest corner of Main Street and West McGillen Avenue Elevation = 841.61'

Benchnail set north side of power pole # V524-165, between sidewalk and south side of West McGillen Avenue, next to green telephone riser, east from entrance to McGillen's Crossing. Elevation = 843.27'

NOTE: REFER TO ALTA SURVEY, SHEET C-004, FOR BENCHMARK LOCATIONS



GENERAL NOTES

DEMOLITION NOTES

- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL. THE DEMOLITION REMOVAL AND THE VOLUNTATION IS RESPONSIBLE FOR DETAINING ALL PERMITS REQUIRED FOR DEMOCITION AND DISPOSAL. THE DEMOCITION, DESPONSED TO BE APPROVED BY ALL GOVERNING AUTHORITIES, OF ALL FACILITIES SUCH AS: STRUCTURES, PADS, MALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE, STRUCTURES, UTILITIES, WELLS, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL AS SPECIFIED BY A QUALIFIED PROFESSIONAL GEOTECHNICAL ENGINEER. IF UNDOCUMENTED FACILITIES ARE FOUND ON SITE, CONTRACTOR SHALL CONTACT THE OWNER AND UTILITY COMPANY PRIOR TO REMOVAL ALL FACILITIES SHALL BE PLUGGED, ABANDONED, OR REMOVED
- FEDERAL, STATE AND LOCAL CODE REQUIREMENTS SHALL GOVERN THE DISPOSAL OF DEBRIS INCLUDING ANY POTENTIALLY HAZARDOUS AND TOXIC MATERIALS. ALL MATERIALS AND STRUCTURES DESIGNATED AS "TO BE REMOVED" SHALL BE DISPOSED OF OFF SITE AND AT THE COST OF THE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING JOB SITE SAFETY PER OSHA REQUIREMENTS AT ALL TIMES.
- PRIOR TO DEMOLITION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALL THE STATE \$11 AND NOTIFY ALL UTILITY COMPANIES TO SCHEDULE UTILITY SERVICE REMOVAL ANDIOR ABANDONMENT. ALL UTILITIES SHALL BE REMOVED/RELOCATED PER THE SPECIFICATIONS OF THE UTILITY COMPANIES. THE CONTRACTOR RESPONSIBLE TO PAY ALL FEES AND CHARGES ASSOCIATED WITH THIS WORK.
- CONTRACTOR SHALL MAINTAIN ALL UTILITY SERVICES TO INHABITED BUILDINGS ON SITE AND ADJACENT PROPERTIES AT ALL TIMES. INTERRUPTIONS SHALL BE APPROVED BY THE OWNERS OF THE BUILDINGS/PROPERTIES.
- THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR, THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY, PRIOR TO THE START OF ANY DEMOLITION ACTIVITY. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ONSITE LOCATIONS OF EXISTING UTILITIES. IF THE LOCATION OR ELEVATION OF THE EXISTING UTILITIES ARE FOUND TO BE DIFFERENT FROM THE PLANS, CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
- CONTRACTOR SHALL PROTECT EXISTING SITE FEATURES TO REMAIN INSIDE AND OUTSIDE CONSTRUCTION LIMITS. CONTRACTOR IS RESPONSIBLE TO COMMING A PRILLEY FOR THEY DESCRIBED STEEPEN THE STOP AND THE STEEPEN THE STEEPEN STEEPEN THE STEEPEN STEEPEN THE STEEPEN STEE DAMAGE TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST
- CONTINUOUS ACCESS SHALL BE MAINTAINED TO THE SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF THE EXISTING FACILITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL. ALL TRAFFIC CONTROL MEASURES SHALL BE IN ACCORDANCE WITH STATE DEPARTMENT OF TRANSPORTATION REGULATIONS AND LOCAL REGULATIONS.
- 10. THE CONTRACTOR IS RESPONSIBLE FOR PLACING AND MAINTAINING CONSTRUCTION FENCE, SIGNS, ETC. TO WARN AND KEEP UNAUTHORIZED PEOPLE OFF SITE FOR THE DURATION OF THE PROJECT.
- 11. PRIOR TO DEMOLITION, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED PER THE GOVERNING AGENCIES GUIDELINES AND STANDARDS. DUST CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR
- 12. SAWCUT LINE PROVIDED IS FOR REFERENCE ONLY, CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING THE EXTENT OF THE SAWCUT THAT WILL BE REQUIRED AS WELL AS PAVEMENT REPAIRS TO INSTALL UTILITY TRENCHING. IF ANY DAMAGE OCCURS ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THAT WHICH IS NECESSARY TO COMPLETE THE INTENT OF THE PROPOSED IMPROVEMENTS, SAWCUT EXISTING PAVEMENT TO FULL DEPTH, USING CARE TO CUT NEAT,
- 13. THE CONTRACTOR SHALL MAINTAIN A WELL-DRAINED SITE. FREE OF STANDING WATER DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY DRAINAGE MEASURES DURING CONSTRUCTION
- 14. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO STUDY THE PLANS AND VISIT THE SITE TO DETERMINE THE ITEMS THAT MUST BE REMOVED TO COMPLY WITH THE SITE DEVELOPMENT PLANS, NO EXTRA FEE WILL BE PAID FOR THE REMOVAL OF ANY ITEM NOT LISTED THAT IS WISIES UPON A S VISIT. THE DEMOLITION PLAN IS INTENDED TO PRESENT THE SCOPE OF THE DEMOLITION, AND DOES NOT SURPARIATE THAT ALL THAT ALL PROPERTY OF THE DEMOLITION, AND DOES NOT SURPARIATE THAT ALL THAT ALL PROPERTY OF THE DEMOLITION, AND DOES NOT SURPARIATE THAT ALL THAT ALL PROPERTY OF THE DEMOLITION, AND DOES NOT SURPARIATE THAT ALL THAT ALL PROPERTY OF THE DEMOLITION, AND DOES NOT SURPARIATE THAT ALL THAT ALL PROPERTY OF THE DEMOLITION.
- 15. THE CONTRACTOR SHALL OBTAIN ALL PERMITS FOR ALL SITE DEVELOPMENT WORK, PAY ALL FEES FOR PERMITS AND CHECK ALL GOVERNING AUTHORITIES PROFIDED AND THE PROPERTY OF BUT NOT LIMITED TO, GUITTERS, SIDEWALKS, POLES, AND OTHER STRUCTURES, INCLUDING THE REMOVAL OR RELOCATION OF EXISTING UTILITIES OR OTHER PHYSICAL OBJECTS SHOWN ON PLANS OR NOTED OTHER
- 16. THE CONTRACTOR SHALL CREATE AND IMPLEMENT AN EROSION AND SEDIMENTATION CONTROL PLAN FOR ALL SITE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE PROJECT. THE PLAN MUST CONFORM TO THE EROSION AND SEDIMENTATION REQUIREMENTS OF THE CONSTRUCTION GENERAL PERMIT OR LOCAL STANDARDS AND CODES, WHICHEVER IS MORE STRINGER.
- 17. ALL COSTS FOR INSPECTIONS AND/OR TESTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNLESS NOTED OTHERWISE.

SITE NOTES

- ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY/COUNTY REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
- 2. ALL MATERIAL NOTED ON DRAWINGS WILL BE SUPPLIED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
- RACTOR SHALL REFER TO THE ARCHITECTURAL PLANS TO COORDINATE ACCESS POINTS AND ELEVATIONS, REFER TO ARCHITECTURAL PLANS, FOR EXACT LOCATIONS AND DIMENSIONS OF DOORS, ENTRY RAMP, AND CANOPY,
- THE CONTRACTOR SHALL OBTAIN ALL PERMITS FOR ALL SITE DEVELOPMENT WORK, PAY ALL FEES FOR PERMITS AND CHECK ALL GOVERNIN. AUTHORITIES' SPECIFICATIONS FOR BUT NOT LIMITED TO, GUTTERS, SIDEWALKS, POLES, AND OTHER STRUCTURES, INCLUDING THE REMOVAL OR RELOCATION OF EXISTING UTILITIES OR OTHER PHYSICAL OBJECTS SHOWN ON PLANS OR NOTED OTHERWISE.
- THE CONTRACTOR SHALL CREATE AND IMPLEMENT AN EROSION AND SEDIMENTATION CONTROL PLAN FOR ALL SITE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE PROJECT. THE PLAN MUST CONFORM TO THE EROSION AND SEDIMENTATION REQUIREMENTS OF THE CONSTRUCTION GENERAL PERMIT OR LOCAL STANDARDS AND CODES, WHICHEVER IS MORE STRINGENT
- ALL COSTS FOR INSPECTIONS AND/OR TESTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNLESS NOTED OTHERWISE
- ACCESSIBILITY STANDARDS SHALL BE IN ACCORDANCE WITH FEDERAL AND LOCAL REQUIREMENTS FOR HANDICAP ACCESSIBILITY, INCLUDING BUT NOT LIMITED TO THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES. ADA PARKING STALLS SHALL MEET ADA GRADE GUIDELINES. CONTRACTOR SHALL FIELD VERIFY EXISTING GRADES AT ACCESS POINTS, ACCESSIBLE ROUTES, AND EXISTING PARKING TO REMAIN TO DETERMINE CAUDELINES.
- ALL DISTURBED AREAS ARE TO RECEIVE 6" OF TOPSOIL, SEED, MULCH AND WATER UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED,
- ALL DIMENSIONS AND RADII ARE TO THE FACE OF THE CURB OR EDGE OF PAVEMENT, AS APPLICABLE, UNLESS OTHERWISE NOTED.
- ALL CURB RADII ARE 5 FEET UNLESS OTHERWISE NOTED.
- PROVIDE SIGNAGE AND STRIPING AS SHOWN. ALL SIGNAGE AND PAVEMENT MARKINGS SHALL COMPLY WITH THE GOVERNING MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.). PAVEMENT MARKINGS ON ASPHALT SHALL BE WHITE. PAVEMENT MARKINGS ON CONCRETE SHALL BE YELLOW.
- 12. REFER TO ARCHITECTURAL PLANS FOR PROPOSED BUILDING SIGNAGE.

STRAIGHT LINES, CUT AT EXISTING JOINTS WHERE POSSIBLE.

- 13. REFER TO MECHANICAL PLANS FOR EQUIPMENT LAYOUT
- 14. REFER TO ELECTRICAL PLANS FOR ELECTRICAL WORK.
- REFER TO GEOTECHNICAL ENGINEERING REPORT PREPARED BY TERRACON, DATED 8/13/2024 FOR SITE WORK PREPARATION/RECOMMENDATIONS AND
- REFER TO ORIGINAL SURVEY PROVIDED BY CESO, DATED 5/14/2024.
- ALL LIGHT POLES TO BE LOCATED 3' FROM THE BACK OF CURB, AS MEASURED FROM THE FACE OF POLE FOUNDATION, UNLESS OTHERWISE DENOTED ON
- THE CONTRACTOR SHALL FOLLOW ALL LOCAL REQUIREMENTS AND REGULATIONS FOR FILLING AND DISPOSING OF TANK BALLAST WATER.

GRADING NOTES

- THE CONTRACTOR IS SPECIFICALLY CALITIONED THAT THE LOCATION AND/OR FLEVATION OF EXISTING LITH ITIES AS SHOWN ON THESE THE CONTRICTION SPECIFICALLY CASTONED THAT THE LOCATION MONOTE RELEVANT OF EAST INSUREDINES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST ZE HOUSE SEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES, IT SALE THE THE PROPRIATE UTILITY.
- THE TOPOGRAPHIC SURVEY WAS PERFORMED BY A REGISTERED LAND SURVEYOR, IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, HE SHALL HAVE MADE, AT HIS EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEY FAN AND SUBMIT IT TO THE OWNER FOR REVIEW.
- 3. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
- 4. THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE EPA OR APPLICABLE STATE GENERAL N.P.D.E.S. PERMIT FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- 5. EXISTING AND PROPOSED GRADE CONTOUR INTERVALS ARE SHOWN AT 1 FOOT INTERVALS.
- ALL SPOT ELEVATIONS REFER TO FINISHED PAVEMENT ELEVATIONS UNLESS OTHERWISE NOTED.
- ALL ADA ACCESSIBLE PARKING SPACES AND LOADING AREAS SHALL BE GRADED WITH A 2.0% MAXIMUM SLOPE IN ALL DIRECTIONS, ALL ADA ACCESSIBLE ROUTES SHALL BE GRADED WITH A 2.0% MAXIMUM CROSS SLOPE AND 5.0% MAXIMUM RUNNING SLOP
- 8. MAINTAIN EXISTING DRAINAGE PATTERN THROUGHOUT THE SITE, EXCEPT WITHIN THE LIMITS OF DISTURBANCE (LOD),
- 9. COORDINATE GRADES AT BUILDING ENTRIES WITH ARCHITECTURAL PLANS.
- 10. EXISTING DRAINAGE STRUCTURES SHALL BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES ARE TO BE CLEANED TO REMOVE
- 11. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO A CONDITION EQUAL TO OR BETTER THAN IT'S CONDITION PRIOR TO DAMAGE.
- CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDING AND WITHIN PAVED AREAS
- 13. ALL TOPSOIL MUST BE REMOVED BEFORE FILL MATERIAL IS PLACED.
- 14. ALL WET, OR OTHERWISE UNSUITABLE SOILS MUST BE STABILIZED. THIS MAY BE ACCOMPLISHED BY DRYING, REMOVAL & REPLACEMENT REMOVAL & DRYING & RECOMPACTION, OR SOIL TREATMENT (LIME/CEMENT) UNDER THE SUPERVISION OF A QUALIFIED PROFESSIONAL
- 15. ALL UNSURFACED AREAS, DISTURBED BY GRADING, OPERATION SHALL RECEIVE 6" OF TOPSOIL, CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER AND SEED WITH LOW MAINTENANCE GRASS SEED MIX. CONTRACTOR SHALL SEED DISTUI AREAS IN ACCORDANCE WITH SPECIFICATIONS UNTIL A HEALTHY STAND OF GRASS IS OBTAINED. ALL EXPOSED SURFACE AREAS SHALL BE STABILIZED PER THE SWPPP AND LANDSCAPE REQUIREMENTS AS PART OF THIS PLAN SET.
- 16. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS SOIL TIGHT
- 17. ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR INVERT FROM INVERT IN TO INVERT OUT
- 18. STORM PIPE SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:

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MATERIAL	TYPE	PIPE SPEC	JOINT SPEC	INSTALLATION	ACCEPTABLE AREAS OF USE
REINFORCED CONCRETE PIPE (RCP)	CLASS III, IV, V	ASTM C-76	ASTM C443	ASTM C1479	WITHIN R/W, COVER VARIES WITH PIPE CLASS
HIGH DENSITY POLY-ETHYLENE (HDPE)	SMOOTH-WALLED CORRUGATED ADS-N12 OR EQUAL	AASHTO M294 (TYPE S)	ASTM F477	ASTM D2321	ON SITE, 12" TO 60" DIA.
POLY VINYL CHLORIDE (PVC)	SDR 35	ASTM D3034	ASTM D3212	ASTM D2321	ON SITE, 4" TO 10"

- 19. ALL STORM SEWER STRUCTURE GRATES AND FRAMES WITHIN PAVEMENT SHALL BE HEAVY DUTY.
- 20. ALL STORM DRAINAGE SHALL BE PERFORMED IN ACCORDANCE WITH ALL LOCAL COUNTY AND MOOT STANDARDS
- 21. ALL DOWNSPOUT DRAIN LINES OR ROOF LEADERS SHALL HAVE A 1,0% MINIMUM SLOPE, UNLESS OTHERWISE NOTED, CONNECT ALI DOWNSPOUTS AND ROOF LEADERS TO THE STORM SEWER SYSTEM, REFER TO ARCHITECTURAL PLANS FOR DOWNSPOUT AND ROOF LEADER LOCATIONS, PROVIDE POSITIVE DRAINAGE AND PAVEMENT REPAIR AS NEEDED.
- 22. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED. 23. THE STORM SEWER GRADE WILL BE SUCH THAT A MINIMUM COVER IS MAINTAINED TO WITHSTAND AASHTO HS-25 LOADING ON THE PIPE
- PROVIDE MINIMUM 2.0 FEET OF COVER FOR ALL STORM SEWERS UNLESS OTHERWISE NOTED
- WHEN A SANITARY SEWER MAIN LIES ABOVE A STORM SEWER, OR WITHIN 18 INCHES BELOW. THE SANITARY SEWER WILL HAVE AN VIOUS ENCASEMENT OR BE CONSTRUCTED OF STRUCTURAL SEWER PIPE FOR A MINIMUM OF 10 FEET ON EACH SIDE OF WHERE THE
- 25. IF EXISTING FIELD TILES ARE ENCOUNTERED DURING CONSTRUCTION THEY SHALL BE REPAIRED AND/OR TIED INTO A STORM SEWER SYSTEM AS NEEDED TO MAINTAIN POSITIVE DRAINAGE.

UTILITY NOTES

- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE.
- THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARDS OF O.S.H.A. DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, AND OTHER MEANS OF PROTECTION, THIS TO INCLUDE BUT NOT LIMITED FOR ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA FOR O.S.H.A.
- 4. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING UTILITY DURING CONSTRUCTION AT NO COST TO THE OWNER.
- 5. ALL FILL MATERIAL IS TO BE IN PLACE AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES,
- CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS. THE CONTRACTOR SHALL CONDUCT ALL REQUIRED TESTS TO THE SATISFACTION OF THE RESPECTIVE UTILITY REGULATIONS AND THE OWNER'S INSPECTION
- 7. CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITY'S INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
- 8. WATER AND SANITARY UTILITIES SHALL HAVE TEN (10) FEET OF HORIZONTAL CLEARANCE WHEN PARALLEL OR 18" VERTICAL CLEARANCE WHEN OROSSING, ALL CLEARANCE DISTANCES SHALL BE MEASURE FROM OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE. THE CROSSING SHALL BE ARRANGED SO THAT THE SANITARY SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER LINE JOINTS.
- IF A WATER LINE PASSES UNDER THE SANITARY SEWER LINE, THE SEWER LINE SHOULD BE CONSTRUCTED OF A WATERTIGHT MATERIAL APPROVED BY THE REGULATORY AGENCY FOR USE IN WATER MAIN CONSTRUCTION AND SHALL EXTEND TEN (10) FEET ON BOTH SIDES OF THE CROSSING, AS MEASURED PERPENDICULAR TO THE WATER LINES, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO
- 10. UNDERGROUND LINES SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING,
- 11. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS. THE CONTRACTOR SHALL CONDUCT ALL REQUIRED TESTS TO THE SATISFACTION OF THE RESPECTIVE UTILITY REGULATIONS AND THE OWNER'S INSPECTION
- 12. UTILITY TRENCHES WITHIN PAVED AREAS TO BE BACKFILLED PER UTILITY TRENCH DETAIL PROVIDED WITHIN THE CONSTRUCTION DETAILS SHEET.
- 13. ALL WATER LINE WORK SHALL BE PERFORMED IN ACCORDANCE WITH VILLAGE OF MATTAWAN CONSTRUCTION STANDARDS AND STATE
- 14. INSTALL ALL WATER LINES WITH A MINIMUM COVER OF 4'-0".
- 15 ON-SITE WATER LINE MATERIAL SHALL BE AS FOLLOWS:

MATERIAL	PRESSURE RATING	PIPE SPEC	FITTINGS	INSTALLATION	ACCEPTABLE AREAS OF USE
HIGH-DENSITY POLY-ETHYLENE (HPDE TUBING)	SDR 9 P.C. = 250 PSI	ASTM D2239 AWWA C901 ASTM F714	ASTM D3350 ASTM D3261	ASTM D2774	ON SITE, < 3" DIA.
COPPER 1"-3"	TYPE "K"	ASTM B88	AWWA C800	AWWA C800	DOMESTIC WATERLINES 1"-3"
PE 4710 POLY-ETHYLENE PLASTIC (IPS)	SDR 11 P.C. = 200 PSI	ASTM D3035 AWWA C901	ASTM D3350 ASTM D3261	ASTM D2774	ON SITE, 2" TO 3" DIA.
P.V.C. POLY VINYL CHLORIDE 4"- 8" C900	C900	AWWA C901 (RATED DR 14)	ASTM F-477 ASTM D3139	AWWA C900 C651	ON SITE, 4"-8" WATER LINES & FIRE LINES INSTALL W/ TRACER & TAPE #12 COPPER
DUCTILE IRON PIPE 4"-12"	CLASS 52 P.C. = 350PSI	AWWA C104, C110, C151, C500	AWWA C111	AWWA C600, C651	6" FIRE HYDRANT LEADS
PE 4710 POLY-ETHYLENE PLASTIC (DIPS)	SDR 9 P.C. = 250 PSI	ASTM D2239 ASTM F714 AWWA C906	ASTM D3350 ASTM D3261	ASTM D2774	ON SITE, 4" DIA. AND LARGER

16. ON-SITE SANITARY SEWER LINE MATERIAL SHALL BE AS FOLLOWS:

MATERIAL	PRESSURE RATING	PIPE SPEC	FITTINGS	INSTALLATION	ACCEPTABLE AREAS OF USE
POLY VINYL CHLORIDE (PVC)	SDR 35	ASTM D3034	ASTM D3212	ASTM D2321 WITH TYPE 1 BEDDING	ON SITE, 6" TO 8" DIA., LESS THAN 8.5' OF COVER
POLY VINYL CHLORIDE (PVC)	SDR 26	ASTM 3034	ASTM D3212	ASTM 2321 WITH TYPE 1 BEDDING	ON SITE, 6" TO 8" DIA., GREATER THAN OR EQUAL TO 8.5" OF COVER

- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT BUILDING UTILITY CONNECTION LOCATIONS, SERVICE SIZES TO BE DETERMINED BY
- 18. CLEAN OUTS AND CURB BOXES WITHIN THE PAVED AREAS MUST HAVE TRAFFIC LOADING FRAMES AND COVERS.

	QU	ANTITIE	S	SUMMARY		
ITEM	QUANTITY	UNIT		ITEM	QUANTITY	UNIT
X" CONCRETE PAVEMENT		SQ. FT.		WATER QUALITY DEVICE		EACH
X" CONCRETE PAVEMENT		SQ, FT,	1	EARTHWORK CUT & HAUL		CU. YD.
CONCRETE CURB, ON-SITE/APPROACHES		LIN. FT.	1	EARTHWORK CUT & RESPREAD		CU. YD.
SIDEWALK, NOT ADJACENT TO STORE		SQ. FT.]	EARTHWORK IMPORT & PLACE		CU, YD.
DETENTION SYSTEM		CU. FT.	1	6' TALL CHAIN LINK FENCE		LIN, FT.
WATER MAIN		LIN. FT.		SOD AREA		SQ. FT.
SEWER SERVICE - SDR 35 (DIRECT BURY)		LIN. FT.	1	SEED AREA		SQ. FT.
WATER SERVICE - TYPE K SOFT COPPER (DIRECT BURY)		LIN. FT.		ASPHALT PAVEMENT DEMOLITION, ON-SITE		SQ, FT,
STORM PIPING - NOTE MATERIAL		LIN. FT.	1	CONCRETE PAVEMENT DEMOLITION, ON-SITE		SQ. FT.
SANITARY SEWER CLEANOUT		EACH	1	GRAVEL DEMOLITION, ON-SITE		SQ. FT.
STORM SEWER CLEANOUT		EACH]	BUILDING DEMOLITION - FRAME GARAGE		SQ, FT.
GREASE TRAP		EACH	1	BUILDING DEMOLITION - ONE AND ONE-HALF STORY HOME		SQ. FT.
STORM STRUCTURES		EACH	1	BUILDING DEMOLITION - ONE-STORY FRAME COMMERCIAL		SQ, FT.
NYLOPLAST 30" MANHOLE		EACH	1	BUILDING DEMOLITION - TWO-STORY FRAME COMMERCIAL		SQ. FT.
STORMWATER MANAGEMENT BASIN		CU. FT.	1			
			Г			

*CONTRACTOR TO PROVIDE A COMPLETE QUANTITIES TABLE PER THE CONSTRUCTION DOCUMENTS, QUANTITIES PROVIDED AS PART OF THIS SUMMARY ARE FOR REFERENCE PURPOSES ONLY AND ARE NOT A BASIS FOR CHANGE ORDER IF ADDITIONAL QUANTITY IS INSTALLED AS PART OF THE ORIGINAL BID DOCUMENTS.







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TTAWAN 4 Ž

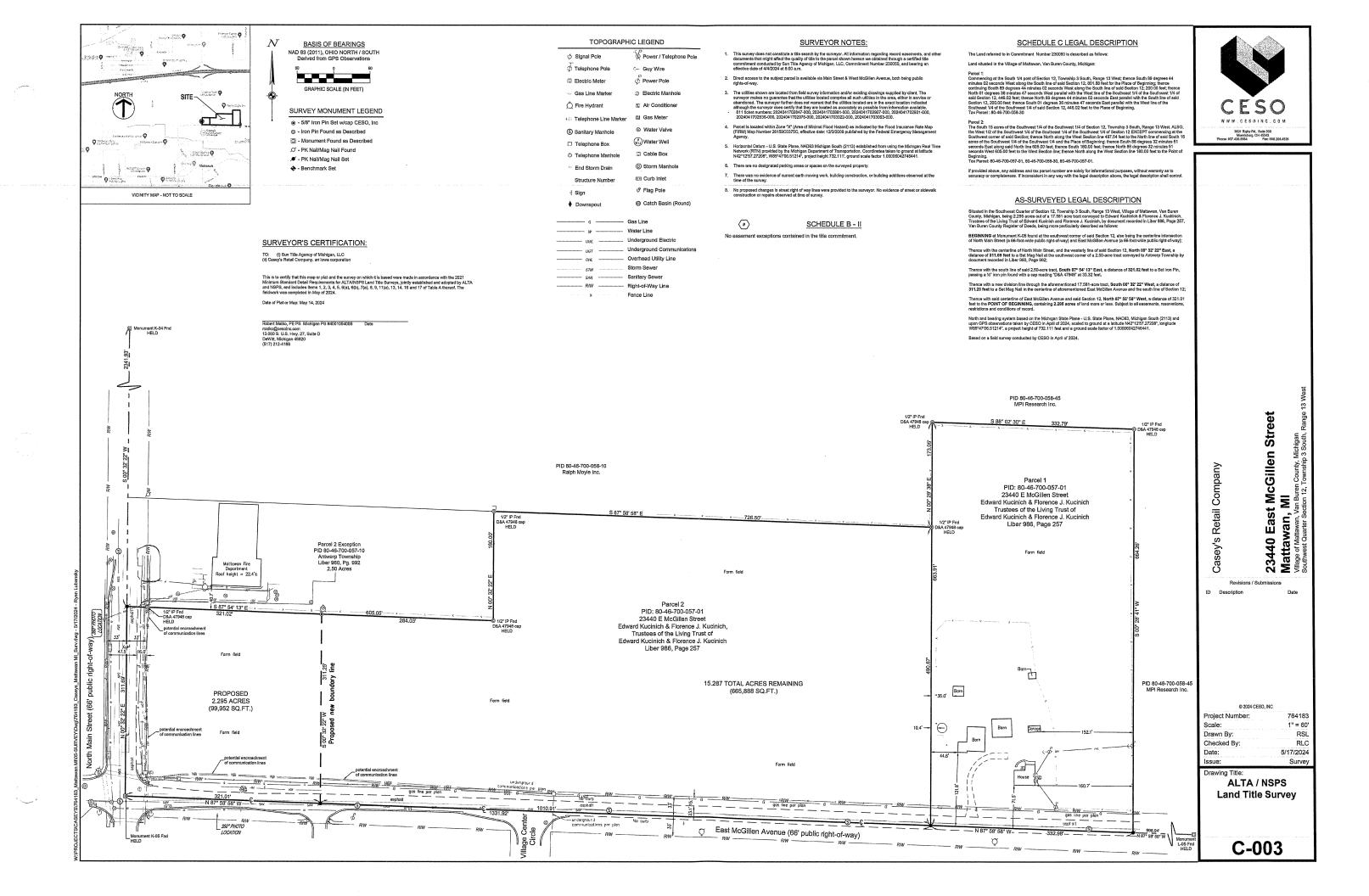
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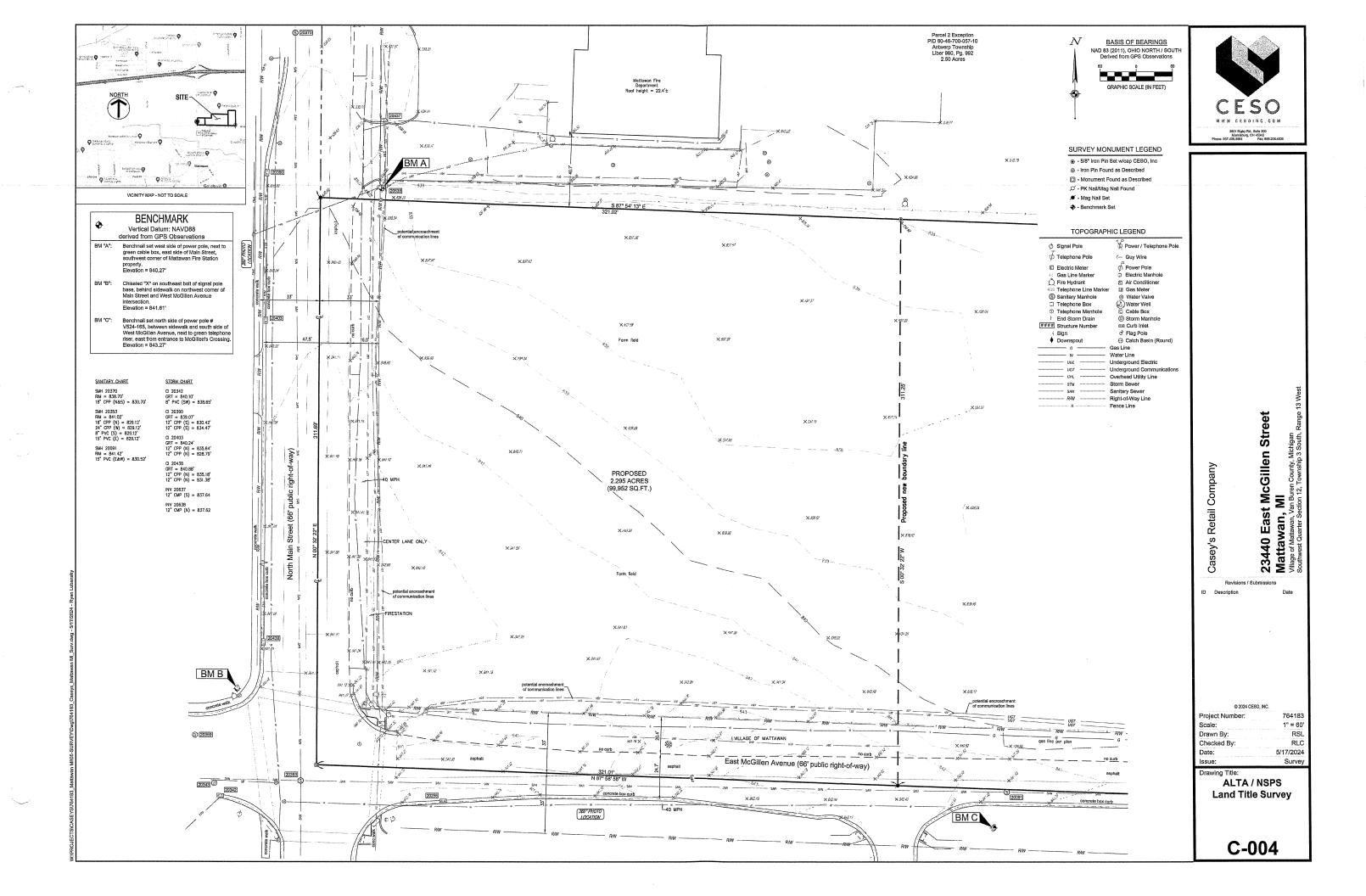
CASEY'S

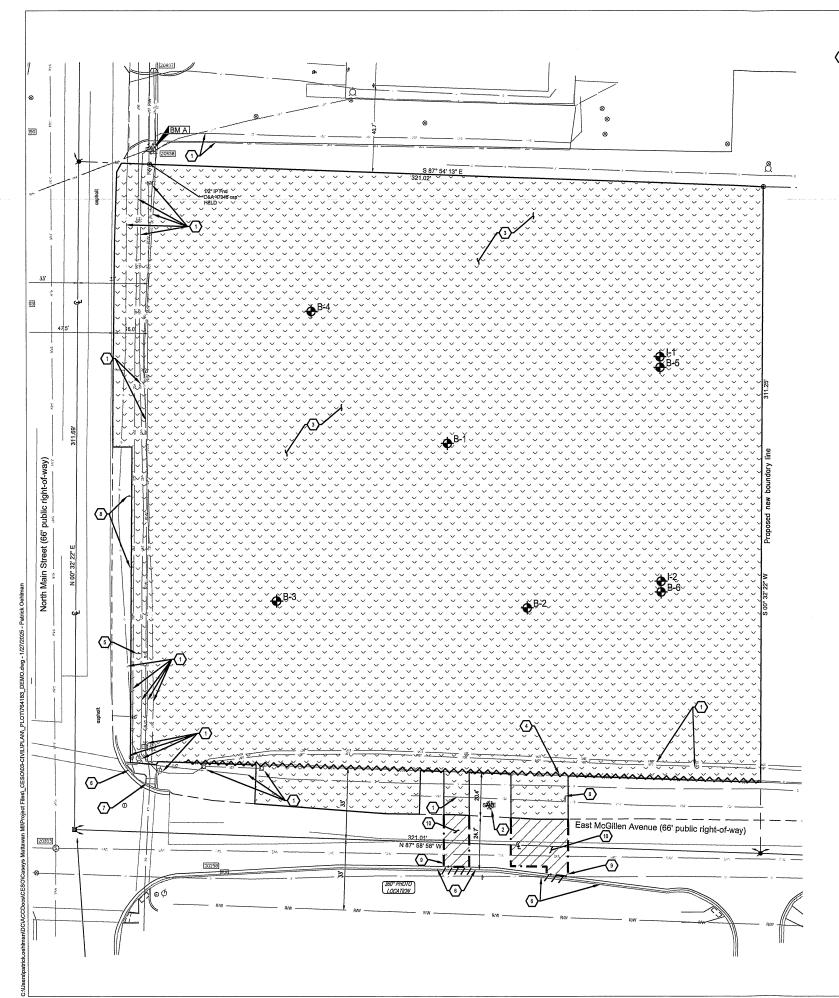
Revisions / Submissions

@ 2024 CESO, INC. Project Number: 764183 NO SCALE BTD Drawn By JMS Checked By: 12/12/2024 PERMIT SE

Drawing Title **GENERAL NOTES**







CONTRACTOR NOTE:

1. CONTRACTOR SHALL VERIFY ALL LOCATIONS AND DEPTHS OF EXISTING UTILITIES.

CODED NOTES:

- 1. PROTECT EXISTING UTILITY LINE/STRUCTURE TO REMAIN, CONTRACTOR TO PROTECT IN PLACE.
- PROTECT ALL EXISTING TREES WITH CALIPER OF 2" OR LARGER TO REMAIN. TREES SHALL BE PROTECTED IN PLACE.
- 3. EXISTING VEGETATIVE COVER/SHRUBS SHALL BE REMOVED AT DISCRETION OF OWNER.
- 4. REMOVE EXISTING FENCE,
- 5. EXISTING SIGN TO BE RELOCATED. REFER TO SHEET C-101. CONTRACTOR TO COORDINATE WITH THE VILLAGE OF MATTAWAN FOR FINAL LOCATION.
- 6. PROTECT EXISTING CURB TO REMAIN.
- 7. PROTECT EXISTING SIDEWALK TO REMAIN.
- 8. PROTECT EXISTING SIGN TO REMAIN.
- 9. SAWCUT SIDEWALK, CURB OR PAVEMENT TO FULL DEPTH.
- 10. REMOVE EXISTING PAVEMENT/GRAVEL

EXISTING

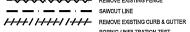
REFER TO C-001 FOR EXISTING FEATURES LEGEND PROPOSED

DEMOLITION LEGEND

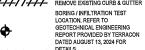


SITE CLEARING LIMITS

REMOVE EXISTING ASPHALT PAVEMENT (OR AS NOTED ON THE PLANS)



REMOVE EXISTING FENCE



DETAILS.



PROTECT EXISTING TREE TO REMAIN







MATTAWAN, MI

CASEY'S #4605

© 2024 CESO, INC.				
roject Number:	764183			
cale:	1" = 20'			
rawn By:	BTD			
hecked By:	JMS			
ate:	12/12/2024			
sue:	PERMIT SET			

DEMOLITION PLAN

C-100

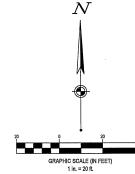
BENCHMARK Vertical Datum: NAVD88 derived from GPS Observations

Benchnail set west side of power pole, next to green cable box, east side of Main Street, southwest corner of Mattawan Fire Station property. Elevation = 840.27'

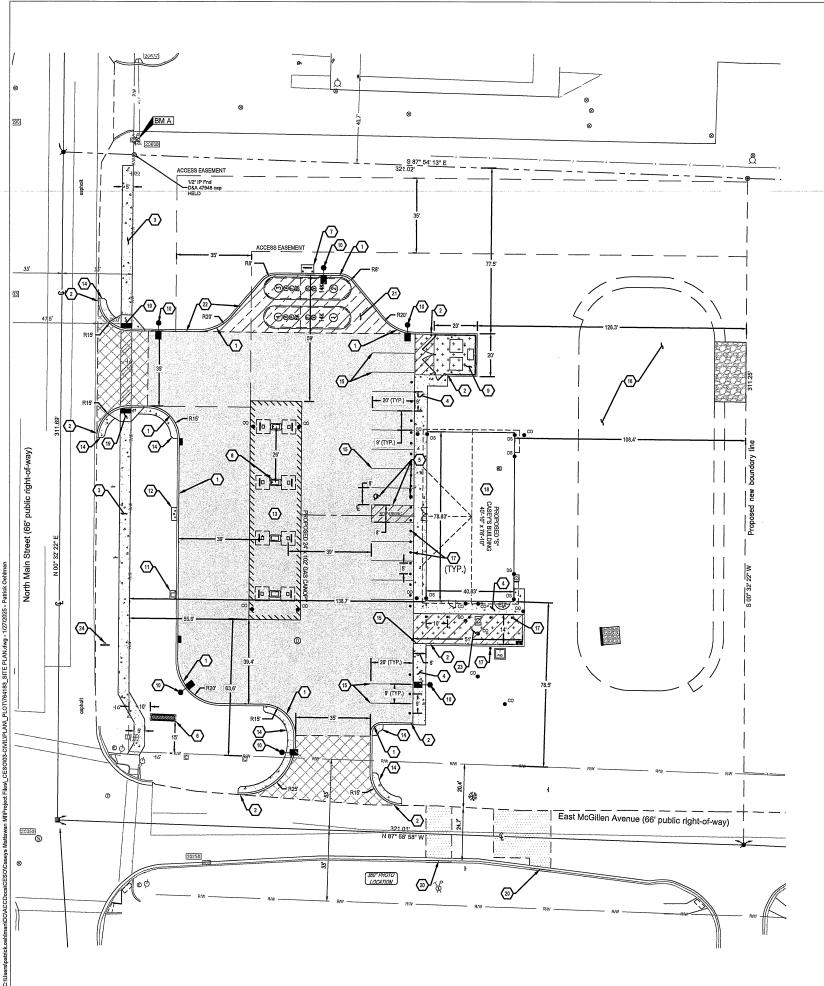
Chiseled "X" on southeast bolt of signal pole base, behind sidewalk on northwest corner of Main Street and West McGillen Avenue

Benchnail set north side of power pole # V524-165, between sidewalk and south side of West McGillen Avenue, next to green telephone riser, east from entrance to McGillen's Crossing Elevation = 843.27'

NOTE: REFER TO ALTA SURVEY, SHEET C-003, FOR BENCHMARK LOCATIONS







CODED NOTES:

- 1. PROPOSED INTEGRAL CURB. SEE DETAIL 2 ON SHEET C-601.
- 2. CURB TAPER, SEE DETAIL ON SHEET C-602.
- 3. PROPOSED 5' WIDE SIDEWALK WITHIN RIGHT-OF-WAY PER VILLAGE OF MATTAWAN STANDARDS.
- 4. PROPOSED SIDEWALK, SEE DETAIL 1 ON SHEET C-601.
- 5. CONTRACTOR TO CONSTRUCT ADA PARKING SPACE PER DETAILS 6 & 7 ON SHEET C-601 AND ACCORDING TO ALL LOCAL, STATE AND FEDERAL REGULATIONS.
- 6. CASEY'S MONUMENT SIGN, PER SIGNAGE PLAN,
- 7. PROPOSED FUEL TANK VENTS AND PAD, SEE DETAIL 5 ON SHEET C-602.
- 8. PROPOSED GAS TAPERED FUEL ISLAND, SEE DETAIL 1 ON SHEET C-602.
- 9. PROPOSED 20' X 20' DUMPSTER ENCLOSURE AND PAD, SEE ARCHITECTURAL PLANS FOR DETAILS,
- 10. PROPOSED SITE LIGHT POLE AND FOUNDATION, SEE DETAIL 8 ON C-602 FOR DETAILS.
- 12. EMERGENCY SHUTOFF FOR GASOLINE DISPENSERS. ALL DISPENSERS FALL WITHIN A 100-FOOT RADIUS OF SHUTOFF. SEE DETAIL 8 ON SHEET C-801.
- PROPOSED 24" X 102" DISPENSER AUTO FUEL CANOPY, REFER TO ARCHITECTURAL PLANS FOR DETAILS.
- 14. PROPOSED LANDSCAPE PROTECTOR, SEE DETAIL 4 ON SHEET C-601.
- 15. PROPOSED PAVEMENT MARKINGS.
- 16. PROPOSED STORM WATER MANAGEMENT BASIN. REFER TO GRADING PLAN FOR DETAILS.
- 17. CASEY'S TYPICAL BOLLARD, SEE DETAIL 1 ON SHEET C-601,
- 18. PROPOSED 3,219 SF BUILDING, REFER TO ARCHITECTURAL PLANS FOR DETAILS.
- 19. PROPOSED MDOT CURB RAMP TYPE F PER STD, DWG, R-28-J, SEE DETAIL ON SHEET C-604.
- 20. PROPOSED CURB AND GUTTER PER VILLAGE OF MATTAWAN STANDARDS.
- PROPOSED FUEL TANK AREA CONCRETE PAD. SEE DETAIL 2 ON SHEET C-801 AND DETAIL 2 ON SHEET C-602.
- 22. PROPOSED 2" MOUNTABLE CURB. SEE DETAIL ON SHEET C-603.
- 23. PROPOSED 14' X 51' LOADING ZONE.
- 24. APPROXIMATE LOCATION OF RELOCATED SIGN, CONTRACTOR TO COORDINATE WITH THE VILLAGE OF MATTAWAN FOR FINAL LOCATION.

EXISTING

REFER TO C-001 FOR EXISTING FEATURES LEGEND

SITE LEGEND

PROPOSED

PROPOSED STANDARD DUTY CONCRETE PAVEMENT. SEE DETAIL 2 ON SHEET C-601 PROPOSED FUEL TANK CONCRETE PAVEMENT, SEE DETAIL 2 ON SHEET C-801 AND DETAIL 2 ON SHEET C-602



PAVEMENT, SEE DETAIL 2 ON SHEET



PROPOSED APPROACH CONCRETE PAVEMENT. SEE DETAIL 2 ON SHEET C-601 PROPOSED ASPHALT REPAIR.

CONTRACTOR TO MATCH EXISTING SECTION IN KIND SETBACK

BUILDING

//////// CANOPY CONCRETE CURB

CLEANOUT

7 PARKING SPACE COUNT SIGN DETECTABLE WARNING MAT. CATCH BASIN

STORM MANHOLE SANITARY MANHOLE CURB INLET

DOWN SPOUT FIRE HYDRANT LIGHT POLE BOLLARD







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CASEY'S #4605

MATTAWAN,

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Project Number: 764183 Scale: 1" = 20 Drawn By: BTD JMS Checked By: 12/12/2024

PERMIT SET

Drawing Title:

SITE PLAN

C-101

BENCHMARK Vertical Datum: NAVD88

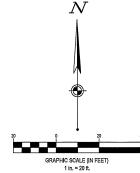
derived from GPS Observations Benchnail set west side of power pole, next to green cable box, east side of Main Street, southwest corner of Mattawan Fire Station property. Elevation = 840.27'

Chiseled "X" on southeast bolt of signal pole base, behind sidewalk on northwest corner of Main Street and West McGillen Avenue

intersection. Elevation = 841.61'

Benchnall set north side of power pole # V524-165, between sidewalk and south side of West McGillen Avenue, next to green telephon riser, east from entrance to McGillen's Crossing Elevation = 843.27'

NOTE: REFER TO ALTA SURVEY, SHEET C-003, FOR BENCHMARK LOCATIONS





ASPHALT PAVING SPECIFICATIONS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. AGGREGATE BASE COURSE.
- B. SINGLE COURSE BITUMINOUS CONCRETE PAVING.
- C. DOUBLE COURSE BITUMINOUS CONCRETE PAVING.

1.02 REFERENCE STANDARDS

- A. AASHTO M 147 STANDARD SPECIFICATION FOR MATERIALS FOR AGGREGATE AND SOIL-AGGREGATE SUBBASE. BASE AND SURFACE COURSES: 2017
- B. AI MS-2 ASPHALT MIX DESIGN METHODS: 2015.
- C. AI MS-19 BASIC ASPHALT EMULSION MANUAL; 2008.
- D. ASTM C138/C136M STANDARD TEST METHOD FOR SIEVE ANALYSIS OF FINE AND COARSE AGGREGATES; 2019.
- E. ASTM D946 STANDARD SPECIFICATION FOR PENETRATION-GRADED ASPHALT CEMENT
- FOR USE IN PAVEMENT CONSTRUCTION; 2009A. F. ASTM D2487 - STANDARD PRACTICE FOR CLASSIFICATION OF SOILS FOR ENGINEERING
- PURPOSES (UNIFIED SOIL CLASSIFICATION SYSTEM): 2017, WITH EDITORIAL REVISION. G. ASTM D4318 - STANDARD TEST METHODS FOR LIQUID LIMIT, PLASTIC LIMIT, AND

1.03 PERFORMANCE REQUIREMENTS

- A. DESIGN PAVING AND SUBBASE AT HEAVY-DUTY AREAS FOR MOVEMENT OF TRUCKS. B. DESIGN PAVING AND SUBBASE AT STANDARD-DUTY AREAS FOR LIGHT DUTY
- COMMERCIAL VEHICLE AND PASSENGER VEHICLE TRAFFIC.

1.04 QUALITY ASSURANCE

D. PERFORM WORK IN ACCORDANCE WITH STATE DOT HIGHWAYS STANDARDS.

PLASTICITY INDEX OF SOILS; 2017, WITH EDITORIAL REVISION (2018).

- E. MIXING PLANT: COMPLYING WITH STATE DOT HIGHWAYS STANDARDS.
- F. OBTAIN MATERIALS FROM SAME SOURCE THROUGHOUT.

1.05 FIELD CONDITIONS

- A. DO NOT PLACE ASPHALT WHEN AMBIENT AIR OR BASE SURFACE TEMPERATURE IS LESS THAN 40 DEGREES F (4 DEGREES C), OR SURFACE IS WET OR FROZEN.
- B. PLACE BITUMEN MIXTURE WHEN TEMPERATURE IS NOT MORE THAN 15 F DEGREES (8 C DEGREES) BELOW BITUMEN SUPPLIER'S BILL OF LADING AND NOT MORE THAN MAXIMUM SPECIFIED TEMPERATURE.

PART 2 PRODUCTS 2.01 REGULATORY REQUIREMENTS

A. COMPLY WITH APPLICABLE CODE FOR PAVING WORK ON PUBLIC PROPERTY.

2.02 MATERIALS

- A, ASPHALT CEMENT: ASTM D946.
- B. AGGREGATE FOR BASE COURSE: IN ACCORDANCE WITH STATE DOT HIGHWAYS STANDARDS, SHOWN BELOW IN SPECIFICATIONS TABLE. C. AGGREGATE FOR BINDER COURSE: IN ACCORDANCE WITH STATE DOT HIGHWAYS
- STANDARDS, SHOWN IN SPECIFICATIONS TABLE.
- D. AGGREGATE FOR WEARING COURSE: IN ACCORDANCE WITH STATE DOT HIGHWAYS STANDARDS, SHOWN IN SPECIFICATIONS TABLE.
- E. FINE AGGREGATE: IN ACCORDANCE WITH STATE DOT HIGHWAYS STANDARDS.
- F. MINERAL FILLER: FINELY GROUND PARTICLES OF LIMESTONE, HYDRATED LIME OR OTHER MINERAL DUST, FREE OF FOREIGN MATTER.
- G, PRIMER: IN ACCORDANCE WITH STATE DOT HIGHWAYS STANDARDS.
- H. TACK COAT: HOMOGENEOUS, MEDIUM CURING, LIQUID ASPHALT.
- I. SEAL COAT: AI MS-19, SAND TYPE.

2,03 ASPHALT PAVING MIXES AND MIX DESIGN

- A. USE DRY MATERIAL TO AVOID FOAMING. MIX UNIFORMLY.
- B. BASE COURSE: AGGREGATE PLACED AND COMPACTED IN ACCORDANCE WITH STATE
- C. BINDER COURSE: 4.5 TO 6 PERCENT OF ASPHALT CEMENT BY WEIGHT IN MIXTURE IN ACCORDANCE WITH STATE DOT SPECIFICATIONS.
- D. WEARING COURSE: 5 TO 7 PERCENT OF ASPHALT CEMENT BY WEIGHT IN MIXTURE IN ACCORDANCE WITH STATE DOT SPECIFICATIONS.
- E. SUBMIT PROPOSED MIX DESIGN OF EACH CLASS OF MIX FOR REVIEW PRIOR TO BEGINNING OF WORK.

2.04 SOURCE QUALITY CONTROL

A. TEST MIX DESIGN AND SAMPLES IN ACCORDANCE WITH STATE DOT SPECIFICATIONS. PART 3 EXECUTION

- A. VERIFY THAT COMPACTED SUBGRADE IS DRY AND READY TO SUPPORT PAVING AND
- B. VERIFY GRADIENTS AND ELEVATIONS OF BASE ARE CORRECT.

3.02 AGGREGATE BASE COURSE

A. PLACE AND COMPACT AGGREGATE BASE COURSE

3.03 PREPARATION - PRIMER

- A APPLY PRIMER IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS
- B. APPLY PRIMER ON AGGREGATE BASE OR SUBBASE AT UNIFORM RATE OF 1/3 GAL/SQ YD (1.5 L/SQ M).
- C. APPLY PRIMER TO CONTACT SURFACES OF CURBS, AND GUTTERS, D. USE CLEAN SAND TO BLOT EXCESS PRIMER.

3.04 PREPARATION - TACK COAT

- A. APPLY TACK COAT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- B. APPLY TACK COAT ON ASPHALT OR CONCRETE SURFACES OVER SUBGRADE SURFACE AT UNIFORM RATE OF 1/3 GAUSQ YD (1.5 USQ M).
- C. APPLY TACK COAT TO CONTACT SURFACES OF CURBS, AND GUTTERS D. COAT SURFACES OF MANHOLE FRAMES WITH OIL TO PREVENT BOND WITH ASPHALT PAVEMENT. DO NOT TACK COAT THESE SURFACES.

3.05 PLACING ASPHALT PAVEMENT - SINGLE COURSE

- A. INSTALL WORK IN ACCORDANCE WITH STATE DOT HIGHWAYS STANDARDS.
- B. PLACE ASPHALT WITHIN 24 HOURS OF APPLYING PRIMER OR TACK COAT.
- C. INSTALL GUTTER DRAINAGE GRILLES AND FRAMES IN CORRECT POSITION AND ELEVATION. D. COMPACT PAVEMENT BY ROLLING TO SPECIFIED DENSITY. DO NOT DISPLACE OR EXTRUDE PAVEMENT FROM POSITION. HAND COMPACT IN AREAS INACCESSIBLE TO ROLLING EQUIPMENT.
- E. PERFORM ROLLING WITH CONSECUTIVE PASSES TO ACHIEVE EVEN AND SMOOTH FINISH WITHOUT ROLLER MARKS.

3.06 PLACING ASPHALT PAVEMENT - DOUBLE COURSE

- A. PLACE ASPHALT BINDER COURSE WITHIN 24 HOURS OF APPLYING PRIMER OR TACK
- B. PLACE WEARING COURSE WITHIN TWO HOURS OF PLACING AND COMPACTING BINDER COURSE,
- C. INSTALL GUTTER DRAINAGE GRILLES AND FRAMES IN CORRECT POSITION AND ELEVATION
- D. COMPACT PAVEMENT BY ROLLING TO SPECIFIED DENSITY. DO NOT DISPLACE OR EXTRUDE PAVEMENT FROM POSITION. HAND COMPACT IN AREAS INACCESSIBLE TO
- ROLLING FOURMENT E. PERFORM ROLLING WITH CONSECUTIVE PASSES TO ACHIEVE EVEN AND SMOOTH FINISH WITHOUT ROLLER MARKS.

3.07 PLACING ASPHALT PAVEMENT - ADJACENT TO CONCRETE

- A. CONCRETE PAVEMENT TO BE PLACED FIRST OR ASPHALT IS TO BE LAID BEYOND THE CONCRETE EDGE AND SAWCUT PRIOR TO CONCRETE PLACEMENT FOR A CLEAN LINE AND VERTICAL EDGE. 3 08 TOLERANCES
- A. FLATNESS: MAXIMUM VARIATION OF 1/4 INCH (6 MM) MEASURED WITH 10 FOOT (3 M)
- B. COMPACTED THICKNESS: WITHIN 1/4 INCH (6 MM) OF SPECIFIED OR INDICATED THICKNESS.
- C. VARIATION FROM TRUE ELEVATION: WITHIN 1/2 INCH (12 MM).

3.09 FIELD QUALITY CONTROL A. PROVIDE FIELD INSPECTION AND TESTING, TAKE SAMPLES AND PERFORM TESTS IN

ACCORDANCE WITH STATE DOT SPECIFICATIONS. 3.10 PROTECTION

A. IMMEDIATELY AFTER PLACEMENT, PROTECT PAVEMENT FROM MECHANICAL INJURY UNTIL SURFACE TEMPERATURE IS LESS THAN 140 DEGREES F (60 DEGREES C).

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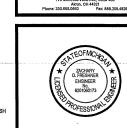
GRAPHIC SCALE (IN FEET)

SEVENTY-TWO (72) HOURS

SEVENTY-TWO (72) HOURS
BEFORE DIGGING IS TO
COMMENCE, THE CONTRACTORS
SHALL NOTIFY THE FOLLOWING
AGENCIES: MICHIGAN UTILITIES
PROTECTION SERVICE AT 811 OR
800482-7171 AND ALL OTHER
AGENCIES WHICH MIGHT HAVE

AGENCIES WHICH MIGHT HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND

ARE NONMEMBERS OF STATE UTILITIES PROTECTION SERVICE



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TTAWAN, ΔA

CASEY'S #4605

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Project Number: 764183 Scale: 1" = 30 BTD Drawn By Checked By: JMS 12/12/2024 PERMIT SET

Drawing Title:

ALTERNATIVE PAVEMENT PLAN

C-101A

- **GENERAL NOTES** CONTRACTOR SHALL FULLY COMPLY WITH AHJ RULES AND REGULATIONS, AND ALL CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITION.
- 2. ALL WORK AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE URRENT AHJ / DOT CONSTRUCTION AND MATERIAL SPECIFICATION.
- 3. CONTRACTOR TO REFER TO GEOTECHNICAL REPORT FOR SUBGRADE COMPACTION
- A ASPHALT PAVEMENT SPECIFICATIONS SHALL BE PER DOT SPECIFICATIONS SHOWN IN TABLE BELOW, OR MOST CURRENT DOT SPECIFICATION MANUAL

DOT ASPH

STATE SECTION 501, MATERIAL | SECTION 501, MATERIAL | SECTION 302, MATERIAL | 501.02 | 302.02 - CLASS 22A

			1	southwest corner of Mattawa property.
HALT PAV	EMENT SPEC	IFICATIONS		Elevation = 840.27'
			BM "B":	Chiseled "X" on southeast be
SURFACE	BINDER	AGGREGATE		base, behind sidewalk on no Main Street and West McGill
COURSE	COURSE	COURSE		intersection.

ΙΔΙ Τ ΡΔΝ	EMENT SPEC	PIFICATIONS		southwest corner of Mattawan F property. Elevation = 840.27'
IALIFAV	LIVILIA OI LO	MICATIONS	ВМ "В":	Chiseled "X" on southeast bolt of
URFACE COURSE	BINDER COURSE	AGGREGATE COURSE		base, behind sidewalk on northw Main Street and West McGillen a intersection.

BENCHMARK Vertical Datum: NAVD88

derived from GPS Observation

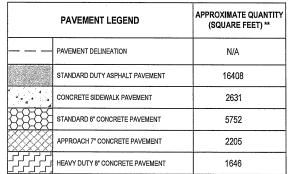
BM "A":	Benchnail set west side of power pole, nex green cable box, east side of Main Street, southwest corner of Mattawan Fire Station
	property.
	Elevation = 840.27'

of signal pole west corner of Avenue Elevation = 841.61'

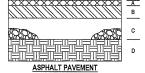
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NOTE: REFER TO ALTA SURVEY, SHEET C-003, FOR BENCHMARK LOCATIONS





** MEASURED FROM EDGE OF CURB GUTTER



PAVEMENT LAYER DEPTHS ASPHALT A B STANDARD DUTY 2" 4"

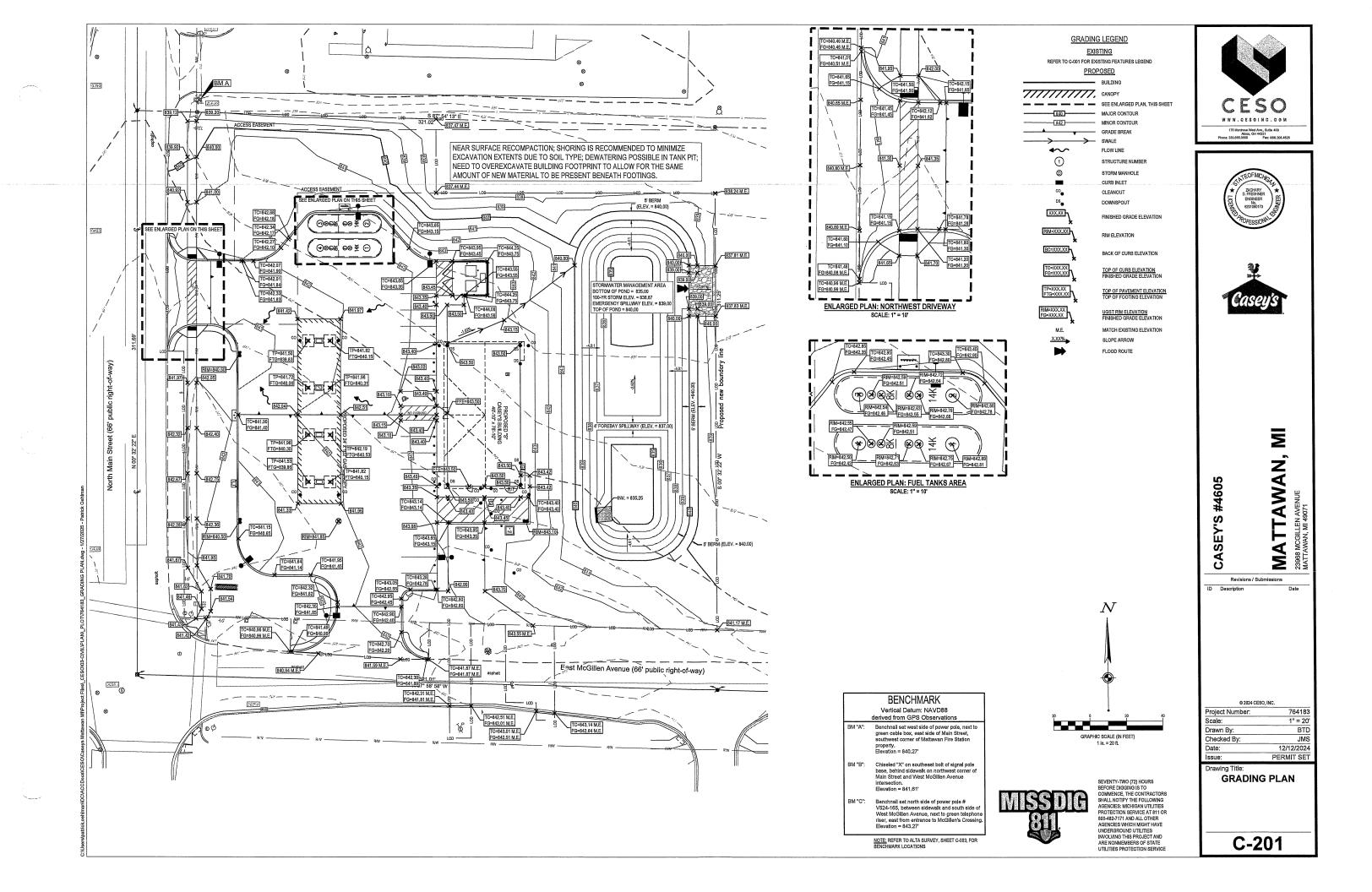
A. ASPHALT PAVEMENT SURFACE COURSE

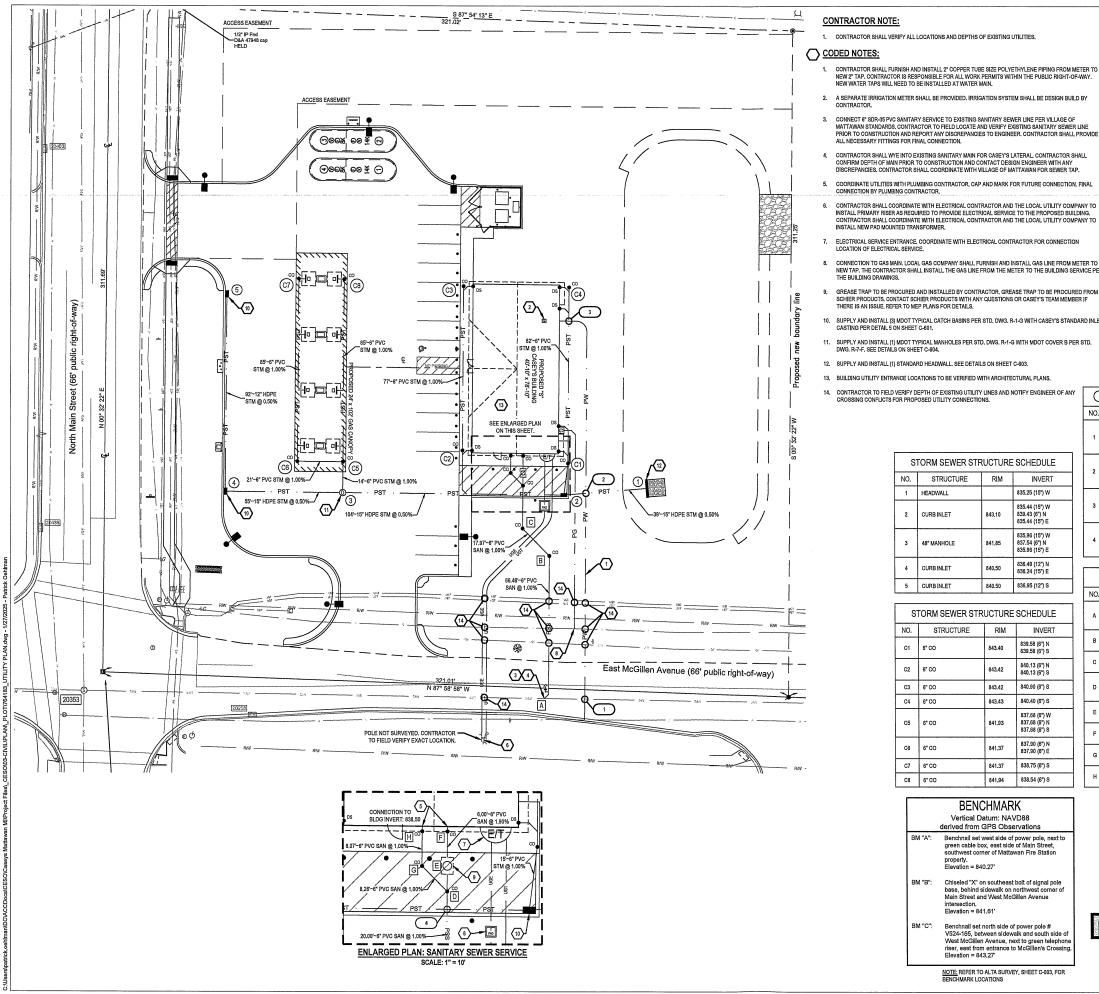
B. ASPHALT PAVEMENT BINDER COURSE

C. AGGREGATE BASE MATERIAL

D. SUBGRADE-COMPACT PER

ASPHALT PAVEMENT SECTION





CONTRACTOR NOTE:

1. CONTRACTOR SHALL VERIFY ALL LOCATIONS AND DEPTHS OF EXISTING UTILITIES.

- CONTRACTOR SHALL FURNISH AND INSTALL 2" COPPER TUBE SIZE POLYETHYLENE PIPING FROM METER TO NEW 2"TAR: CONTRACTOR IS RESPONSIBLE FOR ALL WORK PERMITS WITHIN THE PUBLIC RIGHT-OF-WAY. NEW WATER TAPS WILL NEED TO BE INSTALLED AT WATER MAN.
- 2. A SEPARATE IRRIGATION METER SHALL BE PROVIDED, IRRIGATION SYSTEM SHALL BE DESIGN BUILD BY
- CONNECT 6" SDR-35 PVC SANITARY SERVICE TO EXISTING SANITARY SEWER LINE PER VILLAGE OF MATTAWAN STANDARDS, CONTRACTOR TO FIELD LOCATE AND VERIFY EXISTING SANITARY SEWER LINE PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO ENSINEER. CONTRACTOR SHALL PROVIDE ALL NECESSARY FITTINGS FOR FINAL CONNECTION.
- CONTRACTOR SHALL WYE INTO EXISTING SANITARY MAIN FOR CASEY'S LATERAL, CONTRACTOR SHALL CONFIRM DEPTH OF MAIN PRIOR TO CONSTRUCTION AND CONTACT DESIGN ENGINEER WITH ANY DISCREPANCIES. CONTRACTOR SHALL COORDINATE WITH VILLAGE OF MATTAWAN FOR SEWER TAP.
- COORDINATE UTILITIES WITH PLUMBING CONTRACTOR, CAP AND MARK FOR FUTURE CONNECTION, FINAL CONNECTION BY PLUMBING CONTRACTOR.
- CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR AND THE LOCAL UTILITY COMPANY TO INSTALL PRIMARY RISER AS REQUIRED TO PROVIDE ELECTRICAL SERVICE TO THE PROPOSED BUILDING, CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR AND THE LOCAL UTILITY COMPANY TO INSTALL NEW PAD MOUNTED TRANSFORMER.
- ELECTRICAL SERVICE ENTRANCE. COORDINATE WITH ELECTRICAL CONTRACTOR FOR CONNECTION LOCATION OF ELECTRICAL SERVICE.
- CONNECTION TO GAS MAIN. LOCAL GAS COMPANY SHALL FURNISH AND INSTALL GAS LINE FROM METER TO NEW TAP. THE CONTRACTOR SHALL INSTALL THE GAS LINE FROM THE METER TO THE BUILDING SERVICE PER
- SCHIER PRODUCTS, CONTACT SCHIER PRODUCTS WITH ANY QUESTIONS OR CASEY'S TEAM MEMBER IF THERE IS AN ISSUE, REFER TO MEP PLANS FOR DETAILS.
- 10. SUPPLY AND INSTALL (3) MDOT TYPICAL CATCH BASINS PER STD, DWG, R-1-G WITH CASEY'S STANDARD INLET
- SUPPLY AND INSTALL (1) MDOT TYPICAL MANHOLES PER STD. DWG. R-1-G WITH MDOT COVER B PER STD. DWG. R-7-F. SEE DETAILS ON SHEET C-804.
- 12. SUPPLY AND INSTALL (1) STANDARD HEADWALL. SEE DETAILS ON SHEET C-603.
- 13. BUILDING UTILITY ENTRANCE LOCATIONS TO BE VERIFIED WITH ARCHITECTURAL PLANS
- 14. CONTRACTOR TO FIELD VERIFY DEPTH OF EXISTING UTILITY LINES AND NOTIFY ENGINEER OF ANY CROSSING CONFLICTS FOR PROPOSED UTILITY CONNECTIONS.

-				
Ī	SCHEDULE	RUCTURE	TORM SEWER STR	S
١	INVERT	RIM	STRUCTURE	NO,
T	835.25 (15") W		HEADWALL	1
	835.44 (15") W 839.43 (6") N 835.44 (15") E	843,10	CURB INLET	2
	835.96 (15") W 837.54 (6") N 835.96 (15") E	841.85	48" MANHOLE	3
Γ	836.49 (12") N 836.24 (15") E	840.50	CURB INLET	4
ŀ	836,95 (12") S	840.50	CURB INLET	5

ST	STORM SEWER STRUCTURE SCHEDULE		
NO.	STRUCTURE	RIM	INVERT
C1	6" CO	843.40	839.58 (6") N 839.58 (6") S
C2	6" CO	843,42	840.13 (6") N 840.13 (6") S
СЗ	6" CO	843.42	840.90 (6") S
C4	6" CO	843,43	840.40 (6") S
C5	6" CO	841,93	837.68 (6") W 837.68 (6") N 837.68 (6") S
C6	6" CO	841.37	837,90 (6") N 837,90 (6") E
C7	6" CO	841.37	838.75 (6") S
C8	6" CO	841.94	838.54 (6") S

	Vertical Datum: NAVD88 derived from GPS Observations
BM "A":	Benchnail set west side of power pole, next green cable box, east side of Main Street, southwest corner of Mattawan Fire Station property. Elevation = 840.27'
BM "B":	Chiseled "X" on southeast bolt of signal pole base, behind sidewalk on northwest corner of Main Street and West McGillen Avenue intersection. Elevation = 841.61'
BM "C":	Benchnail set north side of power pole # V524-165, between sidewalk and south side

BENCHMARK

West McGillen Avenue, next to green teleph riser, east from entrance to McGillen's Cross

NOTE: REFER TO ALTA SURVEY, SHEET C-003, FOR BENCHMARK LOCATIONS

UTILITY LEGEND

EXISTING

REFER TO C-001 FOR EXISTING FEATURES LEGEND DDODOSED

FROM	OSED
	BUILDING
7///////.	CANOPY
	SEE ENLARGED PLAN, THIS
	CONCRETE CURB
	PAVEMENT/WALK
· PST ·	STORM SEWER LNE
· PSS ·	SANITARY SEWER LINE
$-\!\!\!-\!\!\!-\!\!\!\!-\!\!\!\!-\!\!\!\!-\!\!\!\!\!-\!\!\!\!\!\!\!\!$	DOMESTIC WATER LINE
PG	CAS SERVICE LINE

UNDERGROUND ELECTRIC LINE UNDERGROUND TELEPHONE LINE SANITARY SEWER CURB INLET CLEANOUT DOWNSPOUT

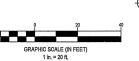
(E/T) ELECTRICAL SERVICE ENTRANCE T PAD FLECTRICAL TRANSFORMER PAD W WATER METER G GAS METER

HEADWALL WITH SCOUR MAT



(x)UTILITY CROSSING SCHEDULE ELEVATIONS B/PIPE = 837.86 2" WAT EX. 15" SAN T/PIPE = 831.21 B/PIPE = 836.19 2" WAT T/PIPE = 834.69 6" STM B/PIPE = 840.24 2" WAT T/PIPE = 838.43 6" SAN B/PIPE = 838.32 15" STM T/PIPE = 836,79

S	SANITARY SEWER STRUCTURE SCHEDULE		
NO.	STRUCTURE	RIM	INVERT
А	WYE CONNECTION		837,32 (6") N PR. 829,90 (15") E EX. 829,90 (15") W EX.
В	6" CO	842.66	837.98 (6") NW 837.98 (6") S
С	6" CO	843.55	838.16 (6") N 838.16 (6") SE
D	6" CO	843,34	838,32 (6") NW 838,32 (6") N 838,36 (6") S
E	GREASE INTERCEPTOR	843,38	838.36 (6") N 838.36 (6") S
F	6° CO	843.49	838.48 (6") N 838.48 (6") S
G	6" CO	843.40	838.41 (6") N 838.41 (6") SE
Н	6" CO	843.49	838.49 (6") N 838.49 (6") S



N

Scale:

SEVENTY-TWO (72) HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTORS SHALL NOTIFY THE FOLLOWING AGENCIES: MICHIGAN UTILITIES PROTECTION SERVICE AT 811 OR 800-482-7171 AND ALL OTHER AGENCIES WHICH MIGHT HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NONMEMBERS OF STATE UTILITIES PROTECTION SERVICE







Ξ

MATTAWAN,

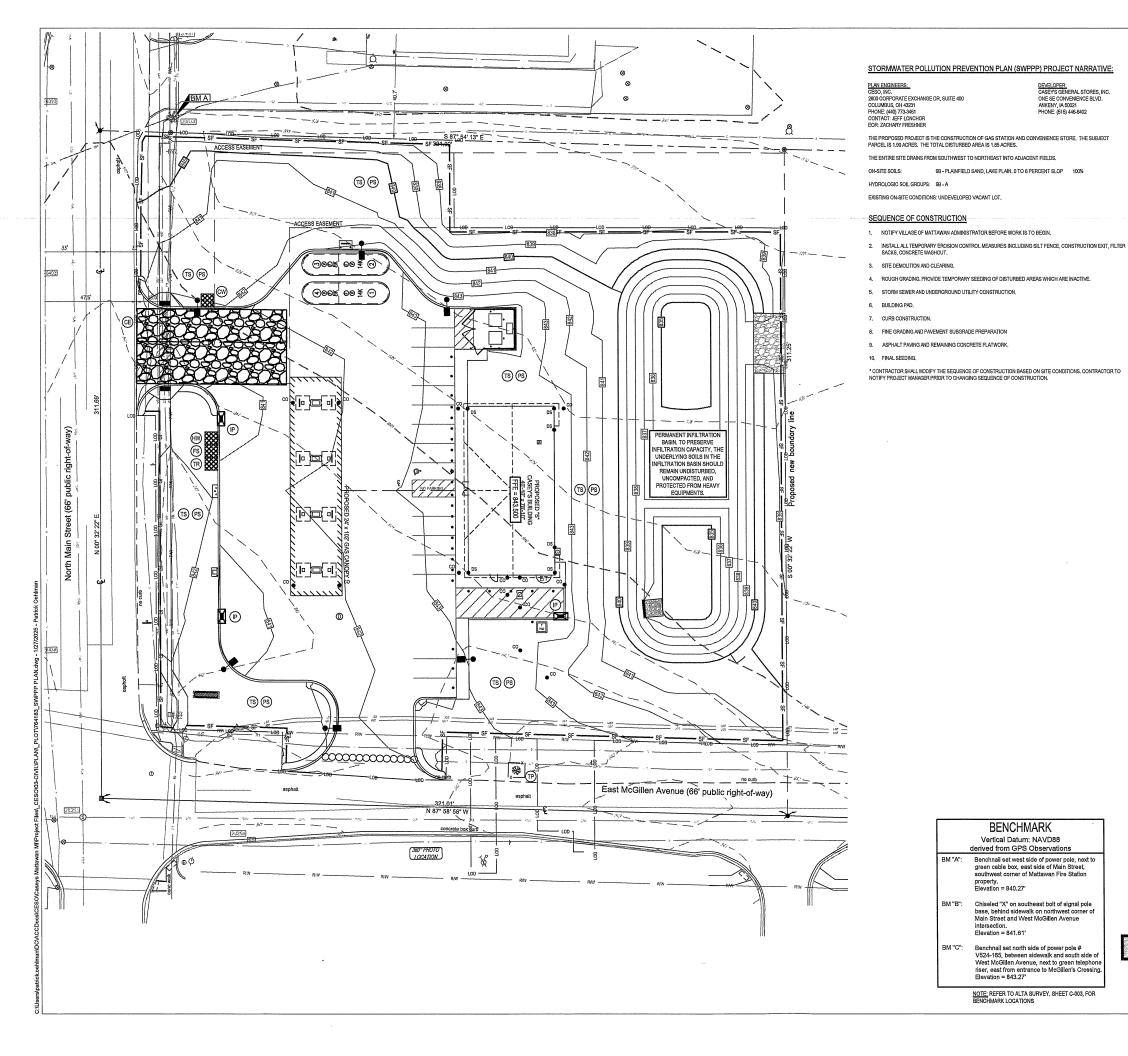
CASEY'S #4605

@ 2024 CESO, INC. Project Number: 764183 1" = 20' Drawn By BTD Checked By: JMS

12/12/2024

PERMIT SET Drawing Title:

UTILITY PLAN



SWPPP LEGEND

REFER TO C-001 FOR EXISTING FEATURES LEGENI PROPOSED

----- MAJOR CONTOUR 962 ----- MINOR CONTOUR PAVEMENT/WALK - SILT FENCE

· COCCOCCOCCOCOO STRAW WATTLE GRADING/SEEDING LIMITS

- LIMIT OF DISTURBANCE

STABILIZED CONSTRUCTION

CONCRETE WASHOUT

CONCRETE WASHOUT AREA

 \boxtimes BASIN SEDIMENT FILTER STORM MANHOLE CATCH BASIN CURB INLET

STABILIZED CONSTRUCTION TS TEMPORARY SEEDING PS PERMANENT SOD

(HW) HAZARDOUS WASTE STORAGE AREA FS FUEL STORAGE AREA

(CW)

(P) INLET PROTECTION TR TRASH AREA (TP) TREE PROTECTION

N

GRAPHIC SCALE (IN FEET)

1 in. = 20 ft.

SEVENTY-TWO (72) HOURS

SEVENTY-TWO (72) HOURS
BEFORE DIGGING IS TO
COMMENCE, THE CONTRACTORS
SHALL NOTIFY THE FOLLOWING
ACEVICIES MICHICAN UTILITIES
PROTECTION SERVICE AT 811 OR
800-482-711 AND ALL OTHER
AGENCIES WHICH MIGHT HAVE
UNDERGROUND UTILITIES
INVOLVING THIS PROJECT AND
ARE NONMEMBERS OF STATE
UTILITIES PROTECTION SERVICE

CESO W W W . CESOINC . COM 175 Montrose West Ave., Suite 400 Akron, OH 44321 Phone: 330.685.0680 Fax: 888.208.4826





Ξ MATTAWAN,

CASEY'S #4605

Revisions / Submissions

Project Number: 764183 1" = 20 Drawn By BTD JMS Checked By 12/12/2024 Date: PERMIT SET Issue:

Drawing Title

SWPPP

C-401

BENCHMARK

Vertical Datum: NAVD88 derived from GPS Observations

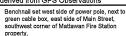
property. Elevation = 840.27'

Chiseled "X" on southeast bolt of signal pole base, behind sidewalk on northwest corner of Main Street and West McGillen Avenue Elevation = 841.61

Benchnall set north side of power pole # V524-165, between sidewalk and south side of West McGillen Avenue, next to green telephon-riser, east from entrance to McGillen's Crossing Elevation = 843.27'

NOTE: REFER TO ALTA SURVEY, SHEET C-003, FOR BENCHMARK LOCATIONS







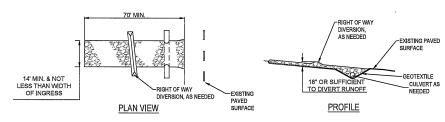
NOTES:

1, ACTUAL LAYOUT DETERMINED IN THE FIELD.

2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

3, THE WASHOUT MUST HAVE SUFFICIENT VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS INCLUDING BUT NOT LIMITED TO OPERATIONS ASSOCIATED WITH GROUT AND MORTAR.

CONCRETE WASHOUT



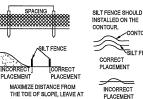
NOTES:

- STONE SIZE (1.5-2.5 INCH) STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
 LENGTH THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT
 LESS THAN TO T. (EXCEPTION: APPLY 30 FT. MINIMUM TO SINGLE RESIDENCE LOTS.
 THICKNESS THE STONE LAYER SHALL BE AT LEAST 8 INCHES THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST 10 INCHES
- FOR HEAVY DUTY USE. WIDTH - THE ENTRANCE SHALL E AT LEAST 14 FEET WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS
- OR EGRESS OCCURS. GEOTEXTILE - A GEOTEXTILE SHALL BE LAID OVER THE ENTIRE AREA PRIOR TO PLACING STONE IT SHALL BE COMPOSED OF
- STRONG ROT-PROOF POLYMERIC PIBERS AND MEET THE FOLLOWING SPECIFICATIONS:
 TIMING THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICAL BEFORE MAJOR GRADING
 ACTIVITIES.

7.	CULVERT - A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER
	FROM FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
8.	WATER BAR - A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT
S	SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
9.	MAINTENANCE - TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND, MUD SPILLED,
SS	DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, ORA ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT
	CONTROLS, SHALL BE REMOVED IMMEDIATELY, REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
OF 10.	CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE
	TRACKING, VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION-SITE SHALL BE RESTRICTED FROM MUDDY AREAS.
11.	REMOVAL - THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A
	PERMANENT ROADWAY OR ENTRANCE.

GEOTEXTILE SPECIFICATION FOR CONSTRUCTION ENTRANCE MINIMUM TENSILE STRENGTH 200 lbs. MINIMUM PUNCTURE STRENGTH 80 psi. MINIMUM TEAR STRENGTH 50 lbs. MINIMUM BURST STRENGTH 320 psi. MINIMUM ELONGATION 20% EQUIVALENT OPENING SIZE EOS < 0.6 mm PERMITTIVITY 1x10-3 cm/sec

STABILIZED CONSTRUCTION ENTRANCE



NCE SHOULD BE ED ON THE	di Edil Idittidita i ditale i ende		
JR. CONTOUR LINES	FABRIC PROPERTIES	VALUES	TEST METHODS
<i>>=</i>	GRAB TENSILE STRENGTH	90 LB, MINIMUM	ASTM D-1682
SILT FENCE	MULEN BURST STRENGTH	190 PSI MINIMUM	ASTM D-3786
EMENT	SLURRY FLOW RATE	0.3 GAL/MIN/FT. MAX.	
~	EQUIVALENT OPENING SIZE	40-80	US STD. SIEVE CW 02215
ORRECT	ULTRAVIOLET RADIATION STABILITY	90% MINIMUM	ASTM - G 26
CEMENT			

SPECIFICATIONS FOR SILT FENCE

NOTES:

TRENCH TO BE BACKFILLED AND

- 1. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND
- ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR. AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS WHICH MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.

- TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.

 3. TO PREVENT WATER PONDED BY THE SILT FENCE FROM FLOWING AROUND THE ENDS, EACH END SHALL BE CONSTRUCTED UPONDED SO THAT THE ENDS ARE TA HIGHER ELEVATION.

 4. WHERE POSSIBLE, SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.

 5. WHERE POSSIBLE, SILT SHORE SHALL BE PRESERVED FOR 5 FT. (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE ESTABLISHED WITHIN 7 DAYS FROM THE RISTALLATION, OF THE SILT FENCE.

 6. THE HEIGHT OF THE SILT FENCE SHALL BE A MIMMIM OF 18 IN.
- THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 IN.
 ABOVE THE ORIGINAL GROUND SURFACE.
- 7. THE SILT FENCE SHALL BE PLACED IN A TRENCH CUT A MINIMUM F 6 IN, DEEP, THE TRENCH SHALL BE CUT WITH A TRENCHER. CABLE LAYING MACHINE, OR OTHER SUITABLE DEVICES WHICH
- WILL ENSURE ADEQUATE UNIFORM TRENCH, DEPTH.
- WILL ENSURE ADEQUATE UNIFORM TRENCH DEPTH.

 8. THE BILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE AND SO THAT THE 8 INCHES OF CLOTH ARE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 8 IN. DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED.

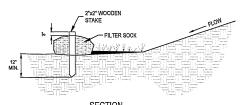
 9. SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE OVERLAPPED WITH THE END STAKES OF EACH SECTION WARAPPED TOGETHER BEFORE DRIVING INTO THE GROUND.

 10. MAINTENANCE SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTLE. IF RUNOFF OVERTORS SILT FENCE, FLOW SUNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY SECOMES A CONCENTRATED FLOW, ONLY OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE:
 - 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED 2) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 3) OTHER PRACTICES SHALL BE INSTALLED.

SILT FENCE DETAIL

CRITERIA FOR SILT FENCE MATERIALS

- 1. FENCE POSTS THE LENGTH SHALL BE A MINIMUM OF 32 INCHES LONG, WOOD POSTS WILL BE 2 IN, X 2 IN, HARDWOOD OF SOUND QUALITY. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT.
- 2. SILT FENCE FABRIC (SEE CHART BELOW)



NOTES:

- 1. MATERIALS COMPOST USED FOR FILTER SOCKS SHALL BE WEED. PATHOGEN AND INSECT FREE AND FREE OF ANY
- 1. MAY LIGHT ON THE WATER MATERIALS TOXIC TO PLANT GROWTH. THEY SHALL BE DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER AND CONSIST OF A PARTICLES RANGING FROM 30° TO 2°.

 2. FILTER SOCKS SHALL BE 5 MIL, CONTINUOUS, TUBULAR, HOPS 30° KINITED MESH NETTING MATERIAL, FILLED WITH COMPOST PASSING THE ABOVE SPECIFICATIONS FOR COMPOST PRODUCTS.
- NOTIFIED THE ABOVE SPECIFICATIONS FOR COMPOST PRODUCTS.

 S. FILTER SOCKS WILL BE PLACED ON A LEVEL LINE ACROSS SLOPES, GENERALLY PARALLEL TO THE BASE OF THE SLOPE OR OTHER AFFECTED AREA. ON SLOPES APPROACHING 2:1, ADDITIONAL SOCKS SHALL BE PROVIDED AT THE TOP AND AS NEEDED MIDSLOPE.

 4. FILTER SOCKS INTENDED TO BE LEFT AS A PERMANENT FILTER OR PART OF THE NATURAL LANDSCAPE, SHALL BE SEEDED AT THE TIME OF INSTALLATION FOR ESTRAUSHMENT OF PERMANENT VECETATION.

 5. FILTER SOCKS ARE NOT TO BE USED IN CONCENTRATED FLOW SITUATIONS OR IN RUNOFF CHANNELS.

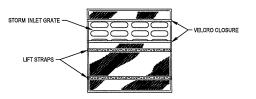
- <u>MAINTENANCE:</u>

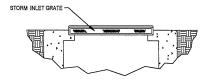
 6. ROUTINELY INSPECT FILTER SOCKS AFTER EACH SIGNIFICANT RAIN, MAINTAINING FILTER SOCKS IN A FUNCTIONAL
- CONDITION AT ALL TIMES.
 7. REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE FILTER SOCKS WHEN THEY REACH 1/3 OF THE EXPOSED HEIGHT OF
- THE PRACTICE.

 8. WHERE THE FILTER SOCK DETERIORATES OR FAILS, IT WILL BE REPAIRED OR REPLACED WITH A MORE EFFECTIVE ALTERNATIVE.

 9. REMOVAL FILTER SOCKS WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED IN SUCH AS WAY AS TO FACILITATE.
- AND NOT OBSTRUCT SEEDINGS

FILTER SOCK

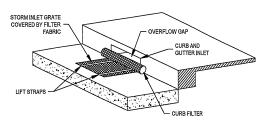




NOTE:

INLET PROTECTION SHALL BE DANDY BAG OR APPROVED OTHER.

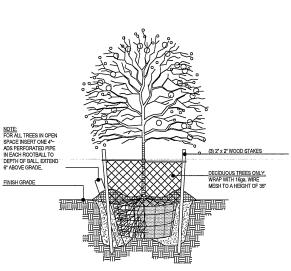
INLET PROTECTION



NOTE:

INLET PROTECTION SHALL BE DANDY CURB BAG OR APPROVED OTHER.

CURB INLET PROTECTION



TREE PROTECTION







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TTAWAN,

#4605

CASEY'S

MA

Revisions / Submissions

Project Number AS SHOWN Drawn By BTC JMS Checked By: 12/12/2024 Date: PERMIT SET Issue:

rawing Title:

SWPPP DETAILS

NOT FER CONSTRUCTION

PHOTOMETRIC PLAN

ENLARGED FOR CLARIT

TYPICAL BUILDING SIDEWALK AND BOLLARD NOT TO SCALE

NON-REINFORCED CONCRETE PAVEMENT

- 6" STANDARD/PARKING

* APPROACHES

PAVING SAW-CUT

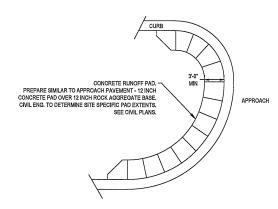
LANDSCAPE PROTECTOR

NOT TO SCALE

TAPER CURB FACE

BACK TO MATCH CURB BOX OVER 24"

5 CURB INLET



PREP AND APPLY TWO COATS BLACK

LIGHT BROOM FINISH

CONTROL JOINTS: 100 FFT - 125 FFT, 25% DEEP

CONSTRUCTION JOINTS: PINISD 4 O.C. 12" EACH WAY WI #4 REBAR
ALL JOINTS TO BE SEALED WITH BACKER RODS AND CAULKED

APPLY CURING AGENT TO ALL EXTERIOR CONGRETE; SES EGENERAL NOTES

UBGRADE AGGREGATE SECTION TO BE DESIGNED BASED ON SITE SOILS AND USE***

U.G.S.T AREA

CONCRETE PAVEMENT REINFORCED W/#4 BARS

CONCRETE PAVING AND CURB
NOT TO SCALE

GENERAL NOTES

CONCRETE:

ALL CONCRETE AND REINFORCING WORK SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE'S "STANDARD BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," (ACI 318) AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS," (ACI 301).

2. CONCRETE SHALL USE TYPE II CEMENT, CONCRETE MIX DESIGNS SHALL MEET THE FOLLOWING REQUIREMENTS:

EXTERIOR EXPOSED CONCRETE

IF CONTRACTOR DESIRES TO INCREASE SLUMP ABOVE ALLOWABLE LIMITS TO FACILITATE PLACEMENT OR PUMPING, THIS SHALL BE DONE UTILIZING A SUPERPLASTICIZER APPROVED BY THE READY MIX DESIGNER AT A

- DOSAGE RATE PROVIDED BY READY MIX DESIGNER.

 3. THE CONTRACTOR SHALL REJECT ANY CONCRETE THAT EXCEEDS THE SLUMP LIMITS NOTED ABOVE (PRIOR TO ADDING SUPERPLASTICIZER) OR CONCRETE THAT CANNOT BE PLACED WITHIN NINETY (90) MINUTES OF BATCH
- NO ALUMINUM SHALL BE PLACED IN CONCRETE.
- 5. ALL CONCRETE IS REINFORCED UNLESS SPECIFICALLY NOTED AS UNREINFORCED, REINFORCE ALL CONCRETE
 NOT OTHERWISE SHOWN WITH THE SAME REINFORCING AS IN SIMILAR SECTIONS OR AREAS,
- 6. DURING HOT WEATHER (80 DEGREES F AND ABOVE), THE CONTRACTOR SHALL COMPLY WITH THE
- RECOMMENDATIONS ACISOS THOT WEATHER CONCRETE; DURING COLD WEATHER (40 DEGREES AND BELOW),
 THE CONTRACTOR SHALL COMPLY WITH THE RECOMMENDATIONS OF ACISOS "COLD WEATHER CONCRETING".
 THE CONCRETE MIX DESIGNS ARE TO BE SUBMITTED AS A FORMAL SUBMITTAL TO THE OWNER FOR
 ACCEPTANCE PRIOR TO CONCRETE BEING DELIVERED TO THE SITE.
- 8. VERIFY WITH LOCAL AUTHORITIES THE REQUIRED THICKNESS OF POURED CONCRETE FOR APPROACHES AND
- PARAINGLOT,

 OCONTRACTOR TO SPRAY APPLY 'SPECCHEM CURE SHIELD' OR CERTI-VEX GUARD CLEAR AIM' TO ALL EXTERIOR
 CONCRETE SURFACES PER MANUFACTURER INSTRUCTIONS, USE SWISSMEX DS-3350 ACETONE SPRAYER, OR
 EQUIVALENT. CASEY'S RECOMMENDED APPLICATION RATE IS 200 SQ.FT, PER GALLON. CONTRACTOR TO ENSURE SITE INSTALL IS APPROPRIATE, SUBSTITUTE PRODUCTS MUST BE PRE-APPROVED BY CASEY'S.

- SUB-BASE AND AGGREGATE:

 1. SUB-BASE COURSE UNDER EXTERIOR CONCRETE PAVED SURFACES: SPREAD AND COMPACT SUB-BASE IN 6*-9*
 LIFTS COMPACTED TO 98% STANDARD PROCTOR.

 2. AGGREGATE BACKFILL AS FOLLOWS OR APPROVED EQUAL BY CASEY'S:
- BUILDING SLAB 3/4" TO 1-1/2" MAX. CLEAN STONE
- 2.1. 2.2. 2.3. 2.4. 2.5. BUILDING SIDEWALK - 3/4" TO 1-1/2" MAX. CLEAN STONE PAVEMENT - 1" TO 1-1/2" MAX. STONE WITH FINES
- SIDEWALK NOT ADJACENT TO BUILDING SAME AS PAVEMENT
- TANK PIT SEE QF SHEETS



GRATE AND MOUNTABLE CURB BOX, OR EQUAL.

GRATE

CURB TOP

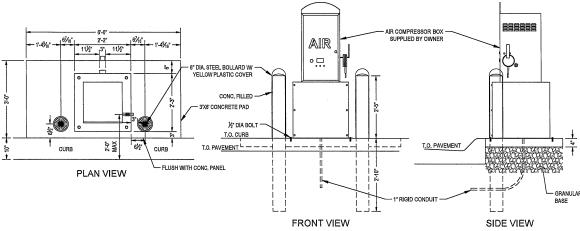
CURB FACE

ADA PARKING SPACES 6 NOT TO SCALE

ALTERNATE CONFIGURATION: ACCESS -

ADA PARKING SIGN

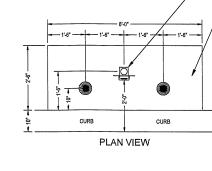
NOT TO SCALE



NO PARKING STRIPING: PAINT ACCESS AISLE AND AREA BEHIND PARKING SPACE ADJACENT TO BUILDING ENTRY SIDEWALK WITH ANGLED STRIPING AS INDICATED; PARKING STRIPES ARE TO BE

UNIVERSAL DISABLED SYMBOL: NOT TO BE PAINTED ON DRIVE UNLESS REQUIRED BY CITY/STATE OFFICIAL

8 AIR COMPRESSOR



-- 48" TALL, 4" SQUARE METAL --POST WICAP PAINTED YELLOW BOLTED TO CONCRETE SLAB SUPPLIED BY OWNER EMERGENCY FUEL SHUT-OFF SIGNAGE EMERGENCY FUEL SHUT-OFF SWITCH W/ CLEAR COVER SWITCH W/ CLEAR COVER 2'-6"X6' CONCRETE PAD 6" DIA, STEEL BOLLARD FIELD PAINT PRIMER -CONC. FILLED ANCHOR BOLT T.O. CURB T.O. PAVEMENT L ----RIGID CONDUIT

FRONT VIEW

9 EMERGENCY STOP NOT TO SCALE

WALL ONLY). SUPPLY STAINLESS FASTENERS: 6 FASTENERS 5/16"-18 x 3/8" CESO (BUTTON HEAD, ALAN DRIVE) AND 1 FASTENER 5/16*-18 HEX BOLT AND NUT. POST TOPS TO BE CAPPED/SEALED, 1-5/8" ROUND, 3/16" WALL POST IS POWDER www.cesoinc.com COA IED YELLOW.

— ADA SIGN WITH REQUIRED UNIVERSAL
SYMBOL OF ACCESSIBILITY, INCLUDE
APPROPRIATE WORDING TO CLEARLY
INDICATE THE SPACE IS RESERVED FOR THE
EXCLUSIVE USE OF VEHICLES WHICH DISPLAY
A DISTINGUISHING LICENSE PLATE OR CARD. SIGN INDICATING THIS SPACE IS A 'VAN

- 6 HOLES, TAPPED 5/16*-18 (THROUGH 1

COATED YELLOW.

ACCESSIBLE SPACE

TWO PIECE CONSTRUCTION

ACCESSIBLE SPACE

- A SIGN STATING "\$XXX FINE", IF REQUIRED BY AUTHORITY HAVING JURISDICTION. FINE AMOUNT PER LOCAL REQUIREMENT.

NOTE: VERIFY HEIGHT OF H.C. SIGN FROM TOP

SIGNAGE AND POST PROVIDED BY OWNER

OF GRADE WITH LOCAL AUTHORITY

SIDE VIEW





Ξ TTAWAN, ·ΔΜ

#4605

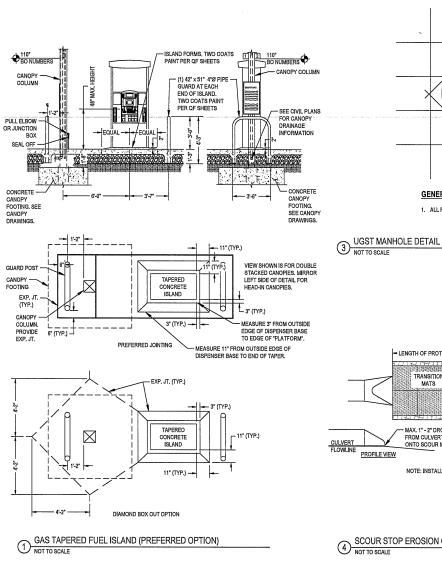
CASEY'S

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Project Number: 764183 NO SCALE Scale: Drawn By: BTE JMS Checked By: Date: 12/12/2024 Issue: PERMIT SET

Drawing Title:

CONSTRUCTION **DETAILS**



- ADD "CRICKET" IF GRADE IS PERPENDICULAR

- THICKNESS TAPER DRAWN AS THOUGH PAVEMENT IS SLOPING LEFT TO RIGHT < 3%

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DRAWN AS THOUGH PAVEMENT IS SLOPING LEFT TO RIGHT < 3%

TO THIS FACE (TYP.)

00

2" ABOVE PAVEMEN

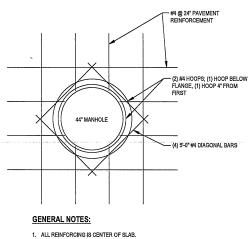
SECTION B

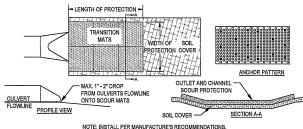
2" ABOVE PAVEMENT

2'-0" (TYP.) -

2" ABOVE PAVEMENT -

UGST PAVING FOR PAVEMENT SLOPE <3%

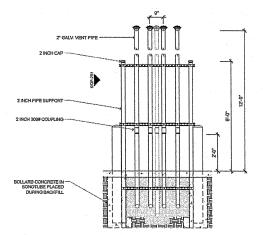




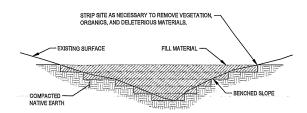
SCOUR STOP EROSION CONTROL NOT TO SCALE

18" MONITORING WELL CASTING, NO CROWN REQ'D

- TRANSITION TO PARKING PAVEMENT, TAPER BOTTOM OF SLAB



Tank Vent Detail - Front 1/2" = 1'-0"



- NOTES:

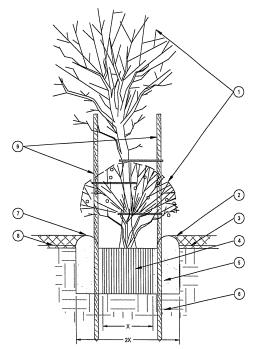
 1. BENCH SLOPES TO MAINTAIN VERTICAL SIDE SLOPES AT FILL LIMITS +4-3' VERTICAL TO +4-8' HORIZONTAL.

 2. COMPACTION SHALL BE IN 8' LETS TO 95% STANDARD PROCTOR OR OTHERWISE SPECIFIED IN GEOTECHNICAL REPORT.

 3. SCARIEY ORIGINAL GROUND AND BLEND WITH FIRST LIFT ON EACH BENCH.

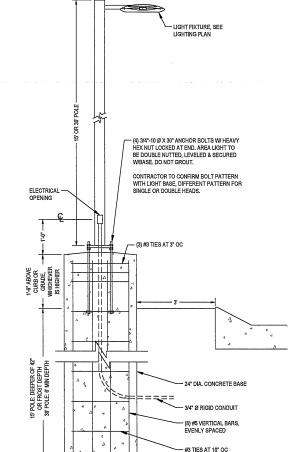
 4. ALL FILL MATERIALS, INCUDING RILL GENERATED ONSITE. SHALL BE OF SUITABLE MATERIAL. UNSUITABLE FILL MATERIAL INCUDING RILL GENERATED ONSITE. SHALL BE OF SUITABLE CONTAINS LARGE ROCKS, TREE AND PLANT ROOTS, CONCRETE, TRASH, ETC.

6 TYPICAL FILL SECTION
NOT TO SCALE

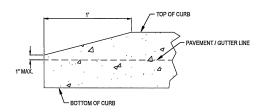


- 1 TREE/SHRUB, PERENNIAL, OR ORNAMENTAL GRASS.
- GROUNDCOVER: 3" DEPTH OF 1"-2" LANDSCAPING STONE AS INDICATED IN LANDSCAPING PLAN.
- 3 FINISH GRADE.
- 4 ROOT BALL.
- BACKFILL. AMEND AND FERTILIZE AS RECOMMENDED BY LOCAL SUPPLIER.
- 6 UNDISTURBED NATIVE SOIL.
- 7 3" HIGH EARTHEN WATERING BASIN.
- 8 HEAVY WEED FABRIC UNDER GROUNDCOVER
- 9 FOR TREES, 2 STAKES/GUIDEPOSTS MIN; 3 REQ ON SLOPES WITH TIES

PLANT/TREE INSTALLATION
NOT TO SCALE



AREA LIGHTING
NOT TO SCALE



CURB TAPER







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CASEY'S #4605

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Project Number: 764183 NO SCALE Scale: Drawn By: BTD JMS Checked By 12/12/2024 PERMIT SET

Drawing Title:

CONSTRUCTION **DETAILS**

STAINLESS STEEL HOSE CLAMP TO

SCHEDULE FOR SIZE

SCHEDULE

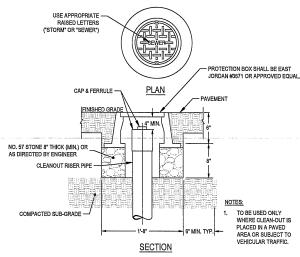
4"x6" 6"x6" (6" DIA.) 8"x8" (8" DIA.) 10"x10"

DOWNSPOUT PVC PIPE

8" DIA. 10" DIA.

SCH, 40 PVC PIPE WITH BELL FITTING, RE:

FINISH FLOOR



CLEANOUT PROTECTION BOX

NEW PAVEMENT OR
"PATCHING" TO MATCH
EXISTING PAVEMENT
SECTION. SAWCUT JOINT
WITH EMULSION APPLIED

COMPACTED

GRAVEI

HAUNCHING -

CLASSI

CLASS II

CLASS III

CLASS IV

CLASS V

CATEGORYI

CATEGORY II

CATEGORY III

CONTRACTOR TO MANDATE DEWATERING IN TRENCHES DURING CONSTRUCTION.

TRENCHING OPERATIONS SHALL CONFORM TO ALL OSHA REQUIREMENTS.

NOTES:

BACKFILL.

DESIGNER NOTES:

PAVED UNPAVED

TABLE 1: BACKFILL AND EMBEDMENT MATERIALS

CRUSHED ROCK ANGULAR (CLEAN).

GRAVEL AND/OR SANDS, WITH LITTLE OR NO FINES.

SAND/SILT AND SAND/CLAY MIXTURES.

INORGANIC CLAYS

ORGANIC SILTS, CLAYS, AND PEATS.

GRAVELLY SAND

SANDY SILT

SILTY CLAY

SOIL CLASSIFICATIONS (AS DEFINED IN ASTM D2487 AND D2321)

SOIL CLASSIFICATIONS (AS DEFINED IN ASCE 15-98)

1. IN THE CASE OF TRENCH BOTTOM BEING UNSTABLE, THE CONTRACTOR SHALL REPLACE FOUNDATION WITH SUITABLE MATERIAL AS SPECIFIED BY GEOTECHNICAL ENGINEER.
COMPACTION PERCENTAGES SPECIFIED REFER TO STANDARD PROCTOR PERCENT COMPACTION.

FOR HDPE AND PVC WATERLINES AND LONG SEWER LATERALS, INSTALL METALLIC LOCATOR TAPE 12" (MIN) AND 18" (MAX)

BELOW FINISHED SUBGRADE ELEVATION, INSTALL TRACER WIRE LOCATED AT THE TOP OF THE PIPE WITHIN THE INITIAL

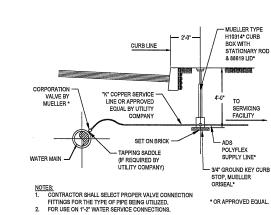
--- 12" MIN.

BACKFILL 6" ±

MINIMUM BURIAL DEPTH (FINISHED GRADE TO TOP OF PIPE)

SUITABLE FOUNDATION

PIPE DIAMETER, D



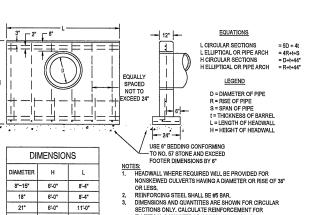
DOWNSPOUT COLLECTOR DETAIL

CONNECT

24" 6'-0" 11'-0"

30" 7'-0" 13'-8"

36" 7'-0" 16'-4"



PRECAST PIPE CULVERT HEADWALL (8" TO 36" DIAMETER)

NTS

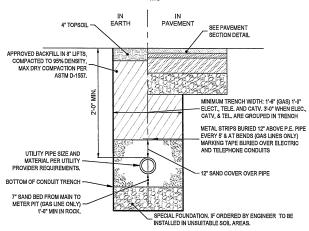
ELLIPTICAL CONCRETE OR CORRUGATED PIPE IN

ACCORDANCE WITH EQUATIONS LISTED BELOW.

THE SOIL MUST HAVE A BEARING CAPACITY OF 2500 PSF

CONCRETE SHALL BE CLASS "C".

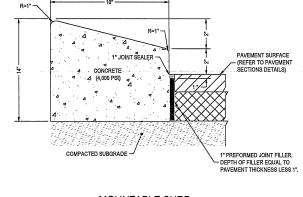
WATER SERVICE CONNECTION



CONTRACTOR TO VERIFY SPECIFIC REQUIREMENTS WITH UTILITY PROVIDERS PRIOR TO BEGINNING CONSTRUCTION.

DRY UTILITY TRENCH

NTS



MOUNTABLE CURB

	PVC PIPE
ZONE	DEPTH / SOIL MATERIAL
FINAL BACKFILL	CLASS I-V*
INITIAL BACKFILL	MINIMUM DEPTH = D/2 (12" COMMON)** CLASS I, II, AND III*
HAUNCHING	DEPTH = D/2** CLASS I, II, AND III COMPACTED*
BEDDING	DEPTH = 4-6* CLASS I, II, AND III COMPACTED*

INITIAL AND FINAL BACKFILLS TO PREVENT PIPE DEFLECTION

	HDPE PIPE
ZONE	DEPTH / SOIL MATERIAL
FINAL BACKFILL	MINIMUM COVER UNPAYED AREAS = 12* MINIMUM COVER PAYED AREAS (D <=48*) = 12****** MINIMUM COVER PAYED AREAS (D <=48*) = 12****** MINIMUM COVER PAYED AREAS (D <=48*) = 24***** CLASSI AND II (COMPACTED 99% SPD) AND CLASS III (COMPACTED 99% SPD) 99% SPD):
INITIAL BACKFILL	MINIMUM DEPTH = D/2 (CAN EXTEND TO THE CROWN OF THE PIPE)** CLASS I, II, AND III (TYPE IV CAN BE USED WITH THE APPROVAL OF GEOTECHNICAL ENGINEER)*
HAUNCHING	DEPTH = DI2** CLASS I, II, AND III (TYPE IV CAN BE USED WITH THE APPROVAL OF GEOTECHNICAL ENGINEER)*
BEDDING	DEPTH (D <= 24") = 4"** DEPTH (D > 24") = 6"** CLASS I, I, AND III (TYPE IV CAN BE USED WITH THE APPROVAL OF GEOTECHNICAL ENGINEER)*

NOTE: THE MIDDLE & BENEATH THE PIPE INVERT IN THE BEDDING ZONE SHALL BE LOOSELY

	RC PIPE
ZONE	DEPTH / SOIL MATERIAL
FINAL BACKFILL	CATEGORY I, II, III*
INITIAL BACKFILL	DEPTH = D/2** CATEGORY I (85-95% COMPACTION), CATEGORY II (90-95% COMPACTION), OR CATEGORY III (85-95% COMPACTION)*
HAUNCHING	DEPTH = DIZ** CATEGORY I (85-95% COMPACTION), CATEGORY II (90-95% COMPACTION), OR CATEGORY III (85-95% COMPACTION)*
BEDDING	MINIMUM DEPTH = DI24 (NOT LESS THAN 3")** IF ROCK FOUNDATION, MINIMUM DEPTH = DI21 (NOT LESS THAN 6")** CATEGORY (65-95% COMPACTION), CATEGORY II (90-95% COMPACTION), OR CATEGORY III (95-95% COMPACTION)*

NOTE: FOR ELLIPTICAL AND ARCH PIPE, D SHALL REPRESENT HORIZONTAL SPAN OF PIPE.

	DI PIPE
ZONE	DEPTH / SOIL MATERIAL
FINAL BACKFILL	CLASS I-V*
INITIAL BACKFILL	DEPTH = D/2** CLASS I, II, AND III (APPROX. 90% STANDARD PROCTOR PER AASHTO T-99)*
HAUNCHING	DEPTH = D/2** CLASS I, II, AND III*
BEDDING	MINIMUM DEPTH = 4" CLASS I, II, AND III*
** D = PIPE DIAMETER	CIFICATIONS ON SOIL MATERIALS OP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID

REPLACE TRENCH DETAILS / SECTIONS OF THIS DETAIL WITH AHJ STANDARD DETAILS FOR WATERLINES, SEWER TRENCHES, ETC.
CERTAIN SECTIONS OR TABLES MAY BE REMOVED AS LOCAL DETAILS WILL SUPERCEDE THESE REQUIREMENTS.
REVIEW PIL HEIGHTS AND PIEM ATERIALS (PIPE CLASS, SOR, DR, ETC.) UNDER GENERAL NOTES FOR SHALLOW AND DEEP PIPE
INSTALLATIONS. ADDITIONAL MEASURES MAY NEED TO BE SPECIFIED ON THE PLANS SUCH AS CONCRETE ENCASEMENT
REFER TO WAN CONCRETEPIPE ORG FOR CONCRETE PIPE DESIGN MANUAL INCLUDING CLASS OF PIPE AND LOAD TABLES, SEE
ALSO ELLIPTICAL PIPE TRENCH RECOMMENDATIONS FROM CONCRETEPIPE.ORG

UTILITY PIPE TRENCH AND BEDDING

NTS







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MATTAWAN,

Revisions / Submissions

SEY'S #4605

Drawn By

Date:

Issue:

Checked By

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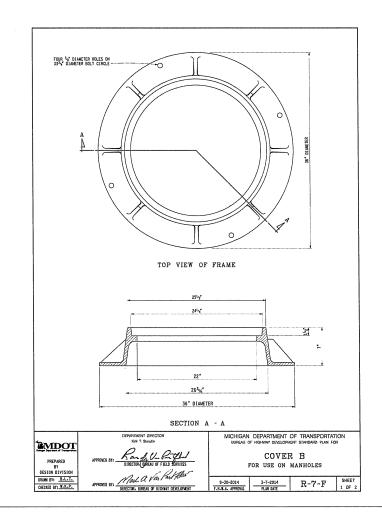
BTD

JMS

12/12/2024

PERMIT SET

Drawing Title CONSTRUCTION **DETAILS**



2'-3" DIA. '-5" MAXIMUM 9" 2'-0" DIA. MINIMUM

5" 3'-0" DIA.

4'-0" DIA.

ELET-PIN-HOLE 3'-5"

TONGUE AND GROUVE JOINT SHALL BE MODIFIED TO FIT RISER SECTION OPENING SIZE AS REQUIRED

MICHIGAN DEPARTMENT OF TRANSPORTATION BURIER: OF DEVELOPMENT STANDARD PLAN FOR

DRAINAGE STRUCTURES

5-18-2020 9-19-2019 R-1-G SHEET 1 OF 9

----ELBOW AS REQUIRED

STEP (SEE NOTES) 93 E

SECTION A - A
TYPICAL MANHOLE

Grogg Brunner, P.E. Grogg Brunter Sep 19 2019 2:17 Pt

Broadley C. Wieferich Brailey C. Wednich

APPROVED BY: DIRECTOR+ BUREAU OF FIELD SERVICES

APPROVED BY: DIRECTOR, BUREAU OF DEVELOPMENT

PRECAST REINFORCED CONCRETE SHOWN
OTHER OPTIONS INCLUDE CONCRETE BLOCK, BRICK, OR CAST-IN-PLACE WALL SECTION
SEE TYPICAL WALL SECTIONS FOR WALL THICKNESS

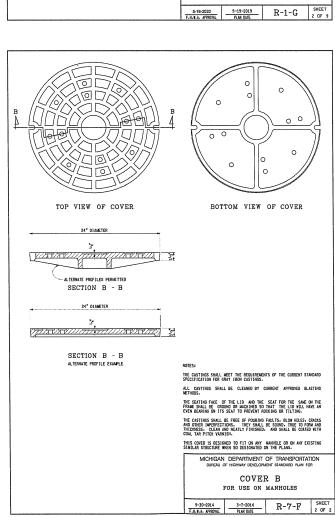
MIDOT

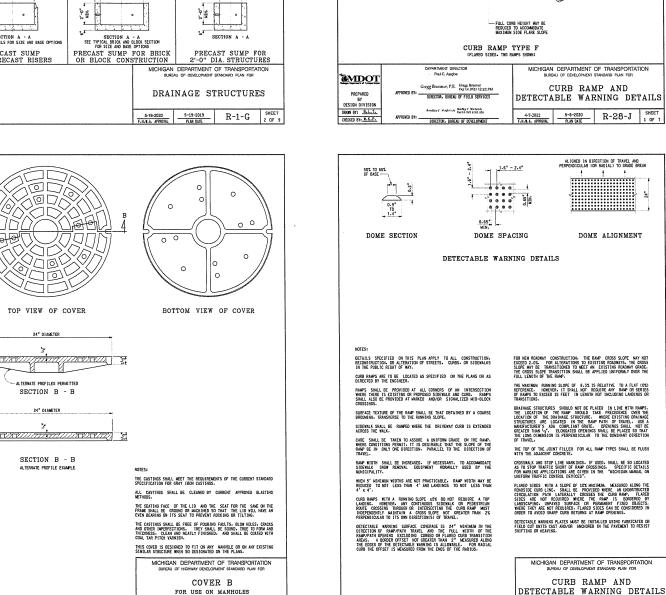
PREPARED BY DESIGN DIVISI

TOP OF MASONRY STRUCTURE 8" 8"

DETAIL FOR 1'-4" & 2'-0" TOP SECTIONS

SHAPE MAY YARY FROM DETAIL SHOWN BUT MUST COMPLY MITH ASTM C-478 AND JOINTS SHALL BE COMPATIBLE WITH THE RISER





PLACE CASTING ON LEACHING BASIN AS SPECIFIED ON PLANS

4" 3'-4" 4" DIA. = 4'-8" + (2 x WALL THICKNESS)

SEE MANHOLE DETAILS FOR BASE OPTIC SECTION B - B LEACHING BASIN

1 4

6" 2'-0" DIA. 6"

GRANULAR Z

TOP OF WASONRY PLACE CASTING ON CATCH TOP OF MASONRY STRUCTURE OR BOTTOM OF CASTING PLANS PLANS BOTTOM OF CASTING

d"

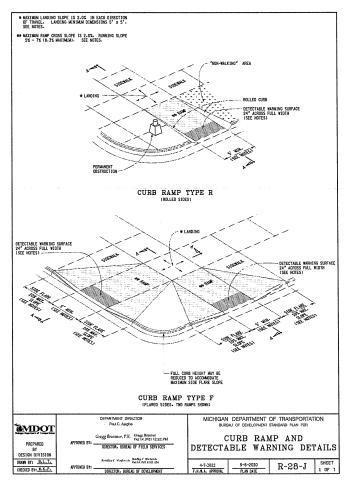
SEE MANHOLE DETAILS FOR SIZE AND BASE OPTION
SECTION B - B
CATCH BASIN

* 6" OR 8" STRUCTURE DIA. * 6" OR 8

-- LIFT PIN HOLE

STRUCTURE DIA.

EE MANHOLE DETAILS FOR SIZE AND BASE OPTIONS SECTION B - B INLET











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Revisions / Submissions

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CONSTRUCTION

DETAILS

C-604

Drawn By:

Issue:

Checked By

764183

BTD

JMS 12/12/2024

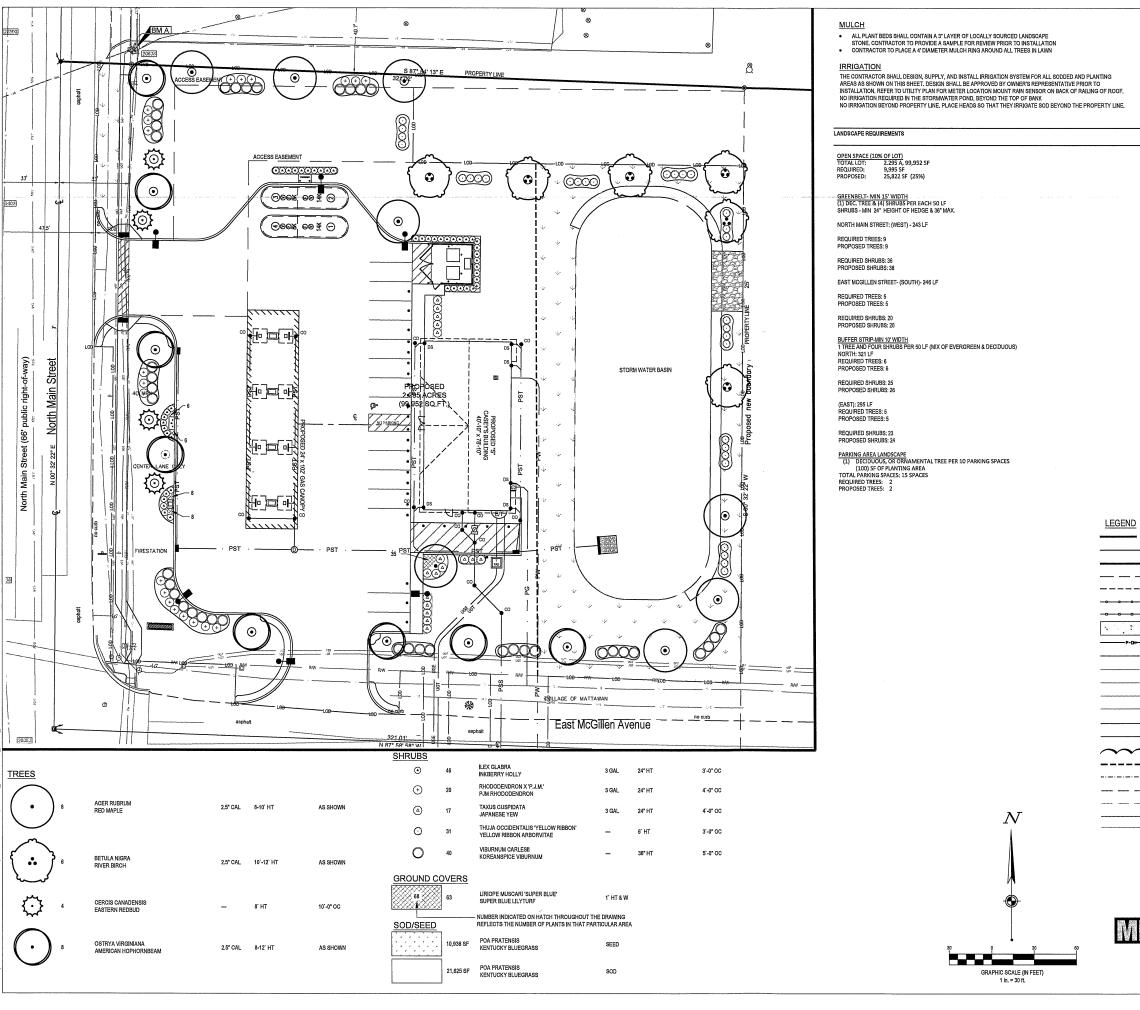
NO SCALE

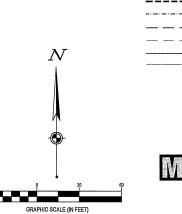
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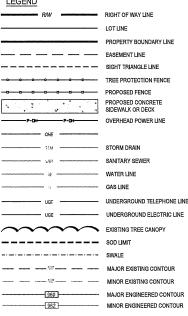
CASEY'S #4605

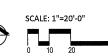
DOME ALIGNMENT

4-7-2022 5-8-2020 R-28-J SHEET 7 OF 7









SEVENTY-TWO (72) HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTORS SHALL NOTIFY THE FOLLOWING AGENCIES: MICHIGAN UTILITIES PROTECTION SERVICE AT 811 OR 800-482-711 AND ALL OTHER AGENCIES WHICH MIGHT HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NONMEMBERS OF STATE UTILITIES PROTECTION SERVICE SEVENTY-TWO (72) HOURS







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#4605

CASEY'S

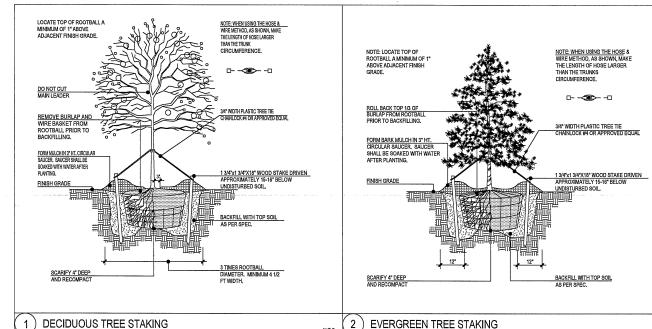
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@ 2024 CESO, INC. Project Number: 764183 1"=20 Drawn By: JC EAB

Date: 12/06/2024 Issue: Drawing Title:

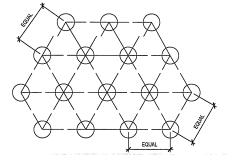
LANDSCAPE PLAN



SHALL BE SOAKED WITH WATER AFTER PLANTING.

4) EVERGREEN / DECIDUOUS SHRUB

FINISH GRADE



ALL GROUND COVER SHALL BE PLANTED AT EQUAL TRIANGULAR SPACING PER ON CENTER SPACING AS SPECIFIED ON PLANTING PLAN.

3) GROUND COVER SPACING

OTHER HARD SURFACE, UNLESS OTHERWISE NOTED.

 CONTRACTOR TO VERIFY WITH OWNER AND UTILITY COMPANIES THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION, TO DETERMINE IN THE FIELD THE ACTUAL LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL CALL UTILITY LOCATE SERVICE 72 HOURS PRIOR AS CONSTRUCTION. SITE CONDITIONS BASED UPON SURVEY PROVIDED BY OWNER. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS BY DETAILED INSPECTION PRIOR TO SUBMITTING BID AND BEGINNING CONSTRUCTION. 3. REFER TO SITE CIVIL DRAWINGS FOR ADDITIONAL REQUIREMENTS AND COORDINATE WORK WITH OTHER SITE RELATED DEVELOPMENT DRAWING AS NEEDED. 4. REESTABLISH EXISTING TURF IN AREAS DISTURBED BY GRADING OR UTILITY TRENCHING, INCLUDING AREAS IN RIGHT-OF-WAY, TO MATCH EXISTING SPECIES,

LOCATE GROUND COVER ONE HALF OF SPECIFIED SPACING DISTANCE FROM ANY CURB, SIDEWALK, OR CONTRACTOR TO FINE GRADE AND ROCK-HOUND ALL TURF AREAS PRIOR TO SEEDING, TO PROVIDE A SMOOTH AND CONTINUAL SURFACE, FREE OF IRREGULARITIES (BUMPS OR DEPRESSIONS) & EXTRANEOUS MATERIAL OR DEBRIS.

GENERAL NOTES: LANDSCAPE PLAN

REMOVE EXISTING WEEDS FROM PROJECT SITE PRIOR TO THE ADDITION OF ORGANIC AMENDMENTS AND FERTILIZER APPLY AMENDMENTS AND FERTILIZER AS NEEDED.

UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. VERIFY LIMITS OF WORK BEFORE STARTING.

6. CONTRACTOR TO REPORT ALL DAMAGES TO EXISTING CONDITIONS AND INCONSISTENCIES WITH PLANS TO

7. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE IN ALL LANDSCAPE BEDS AND ALL LAWN AREAS.

10. QUANTITIES SHOWN ARE INTENDED TO ASSIST CONTRACTOR IN EVALUATING THEIR OWN TAKE OFFS AND ARE NOT GUARANTEED AS ACQUARTE REPRESENTATIONS OF REQUIRED MATERIALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS BIO QUANTITIES AS REQUIRED BY THE PLANS AND SPECIFICATIONS. IF THERE IS A DISCREPANCY BETWEEN THE NUMBER LABELED ON THE PLANT LEGEND AND THE QUANTITY OF GRAPHIC SYMBOLS SHOWN, THE GREATER QUANTITY SHALL GOVERN.

11. COORDINATE LANDSCAPE INSTALLATION WITH INSTALLATION OF UNDERGROUND SPRINKLER AND DRAINAGE

12. ALL SIZES AND QUALITY OF PLANT MATERIAL SHALL MEET THE MINIMUM SPECIFICATIONS OF THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI 280.1-2014). THE LANDSCAPE CONTRACTOR SHALL INSTALL ALL PLANT MATERIAL IN SIZE AS INDICATED IN THE PLANT SCHEDULE UNLESS OTHERWISE SPECIFIED ON THE PLAN ET. ALL PLANTS THAT DO NOT MEET THE SIZE AND SPECIFICATIONS SET FORTH BY THE AMERICAN STANDARD FOR NURSER STOCK WILL BE REJECTED BY LANDSCAPE ARCHITECT AT NO COST TO OWNER.

13 ONCE PROJECT IS AWARDED THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE TO SECURE ALL PLANT WATERIAL IN THE SIZE SPECIFIED ON PLAN PRIOR TO INSTALLATION, IN THE EVENT THE PLANT MATERIAL IS NOT AVAILABLE IN THE SIZE SPECIFIED, THE CONTRACTOR SHALL INSTALL LARGER AT NO COST TO OWNER.

14. THE LANDSCAPE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FOR ALL PLANT MATERIAL SUBSTITUTIONS FROM THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. PLANT SUBSTITUTIONS WITHOUT PRIOR WRITTEN APPROVAL THAT DO NOT COMPLY WITH THE DRAWINGS AND SPECIFICATIONS MAY BE REJECTED BY THE LANDSCAPE ARCHITECT AND REPLACED BY CONTRACTOR AT NO COST TO THE OWNER.

15. PRIOR TO MOBILIZATION THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT, IN WRITING, IF HE/SHE BELIEVES ANY OF THE PLANT MATERIAL IDENTIFIED ON THE PLAN MAY NOT BE SUITABLE FOR THE SITE OR MAY DIE. SUBSTITUTION REQUESTS WILL BE GRANTED BY THE LANDSCAPE ARCHITECT PRIOR TO THE START OF CONSTRUCTION ACTIVITIES, IF NOTIFICATION IS NOT GIVEN TO THE LANDSCAPE ARCHITECT ALL PLANTING WHICH FAILS TO GROW (EXCEPT FOR DEFECTS RESULTING FROM LACK OF ADEQUATE MAINTENANCE AS DETERMINED BY THE OWNER, NEGLECT, OR VANDALISM) SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENS

16. WHERE PROPOSED TREE LOCATIONS OCCUR UNDER EXISTING OVERHEAD UTILITIES OR CROWD EXISTING TREES, NOTIFY LANDSCAPE ARCHITECT TO ADJUST TREE LOCATIONS.

17. ALL PLANT MASSES TO BE TOP DRESSED WITH MULCH AS SPECIFIED IN PLANT SCHEDULE. SPREAD UNIFORMLY IN DEPTH OVER THE PLANTING BEDS AS DELINEATED ON THE PLANS UNLESS OTHERWISE NOTED

18. BED EDGE TO BE NO LESS THAN 12" AND NO MORE THAN 18" FROM OUTER EDGE OF PLANT MATERIAL BRANCHING. WHERE GROUND-COVER OCCURS, PLANT TO LIMITS OF AREA AS SHOWN

19. INITIAL LANDSCAPE MAINTENANCE IS THE LANDSCAPE CONTRACTORS RESPONSIBILITY UNTIL FINAL ACCEPTANCE BY THE OWNER. MAINTAIN TREES, SHRUBS, LAWNS, AND OTHER PLANTS AS PER THE PROJECT MANUAL AND/OR WRITTEN SPECIFICATIONS, IF APPLICABLE. EXTENDED LANDSCAPE MAINTENANCE PERIOD BEGINS IMMEDIATELY AFTER THE COMPLETION OF ALL PLANTING OPERATIONS AND WRITTEN ACCEPTANCE FROM THE OWNER AND/OR LANDSCAPE ARCHITECT.

ALL LANDSCAPE MAINTENANCE SHALL BE IN ACCORDANCE WITH LOCAL GOVERNING STANDARDS, IN ADDITION TO OWNER REQUIREMENTS.

ALL PLANTS SHALL COME WITH A 1 YEAR WARRANTY, WARRANTY BEGINS AFTER SUBSTANTIAL COMPLETION OCCURS
AND FINAL ACCEPTANCE BY OWNER. WARRANTY ASSUMES PLANTINGS ARE MAINTAINED AND IRRIGATED (VIA
SYSTEM OR HAND) EITHER BY INSTALLING CONTRACTOR OR MAINTENANCE CONTRACTOR.

22. REFER TO PROJECT MANUAL OR WRITTEN SPECIFICATIONS, IF AVAILABLE, FOR ADDITIONAL REQUIREMENTS.

SOIL PLANTING MIXTURE (MIX ONSITE)

THE LANDSCAPE CONTRACTOR SHALL FURNISH FROM THEIR SOURCE A GOOD CLEAN, NATIVE SOIL WHICH SHALL
MEET THE APPROVAL OF THE OWNER'S REPRESENTATIVE. THIS SOIL SHALL BE USED FOR THE PLANTING MIXTURE

ONE PART COMPOST/MANURE PLANTING MIX, TOPSOIL OR APPROVED EQUAL

1.B. ONE PART NATIVE SOIL

2. SOILS WITHIN PLANTING AREAS MUST BE SUITABLE FOR PROPOSED PLANTED MATERIAL & SOD WITH REGARD TO: pH, SOIL TEXTURE, SOIL STRUCTURE, AND SEASONAL HIGH WATER TABLE. THE CONTRACTOR SHALL ANALYZE EXISTING SOILS LOCATED IN PROXIMITY TO PROPOSED PLANT MATERIAL. AND BE RESPONSIBLE TO AMEND THE SOIL TO GRITH RESENTIAL REQUIREMENTS NECESSARY FOR THE ESTRALISHMENT AND GROWTH OF PLANT LIFE. LANDSCAPE CONTRACTOR TO PROVIDE SOILS REPORT AND APPROPRIATE RECOMMENDATIONS PRIOR TO MERCHAN AND ADMINISTRACTOR ADMINISTRACTOR AND ADMINISTRACTOR AND ADMINISTRACTOR AND ADMINISTRACTOR ADMINISTRACTOR AND ADMINISTRACTOR ADMINISTRACTOR ADMINISTRACTOR AND ADMINISTRACTOR ADMINISTRACTO INSTALLATION TO OWNER'S REPRESENTATIVE FOR REVIEW. FAILURE TO PROVIDE REPORT MAY RESULT IN PLANT MATERIAL BEING REJECTED BY OWNER'S REPRESENTATIVE AND REPLACED AT NO COST TO OWNER.

THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE IN WRITING PRIOR TO PLANTING,
WHEN CONDITIONS DETRIMENTAL TO PLANT GROWTH ARE ENCOUNTERED, SUCH AS RUBBLE FILL, POOR PLANTING
SOIL, ADVERSE DRAINAGE CONDITIONS, OR OBSTRUCTIONS.







Σ MATTAWAN,

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Project Number:	76418
Scale:	1"=2
Drawn By:	J
Checked By:	EA
Date:	12/06/202
Issue:	

LANDSCAPE DETAILS

