



AGENDA
ZONING BOARD OF APPEALS MEETING
Wednesday, June 24, 2020

- I. CALL TO ORDER
- II. ROLL CALL:
- III. MINUTES OF PREVIOUS MEETING: JANUARY 9, 2020
- IV. ADDITIONS OR CHANGES TO AGENDA:
- V. COMMUNICATIONS:
- VI. PUBLIC COMMENT:
- VII. NEW BUSINESS:
 - 1. Public Hearing - Variances - 4323 W Vienna
- VIII. ADJOURNMENT:



Charter Township of Vienna Zoning Board of Appeals Meeting

Meeting Date:	Thursday, January 9, 2020	Location:	3400 W Vienna Rd, Clio, MI 48420	Time:	5:30 PM
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Meeting Attendees

Name	Role	P=Present A=Absent,	Name	Role	P=Present A=Absent,
Gregg Carrier	Chairman	P	Karen Mason	Member	P
Marie Canterbury	Vice Chair	P	Mary Johnson	Secretary	P
Cindy Bryan	Board Rep	P	Dennis McDonagh	Recording Secretary	P

Call to Order: 5:30 PM, Pledge was spoken

Roll Call: All present.

Meeting Minutes from 12/4/2019: Motion to Approve by Canterbury
Support by Mason
All in favor – Minutes Approved

Additions or Changes to Agenda: None

Communications: None

Public Comment: None

New Business: Election of Officers:
Annual Activities Chair – Motion by Bryan to nominate Carrier as Chair.
Support by Canterbury.
All are in favor, motion carried.
Vice Chair – Motion by Bryan to nominate Johnson as Vice Chair.
Support by Canterbury.
All are in favor, motion carried.
Secretary – Motion by Bryan to nominate Canterbury as Secretary.
Support by Mason.
All are in favor, motion carried.

ZBA Schedule for 2020:

Carrier asked if Wednesdays still worked for everyone. The consensus agreed. The schedule will remain as Wednesdays at 5:30 PM as needed.

New Business: Vernon Curtis – 5379 W Vienna – Property Owner of 5347 W Vienna representing.
Public Hearing – Motion by Johnson to open the public hearing.
Variance – Have 2 Support by Bryan.
homes on 1 lot with Public hearing opened at 5:35 PM.
the ability to rebuild Carrier reviewed the history of this property as a lot has happened. In 1997 there was
both – 5347 W Vienna a variance granted to have a second home on the lot. In 2009 a variance was granted to split the lot and the homes separated onto their own lots. In 2015 a variance was granted to recombine the lots. Now in 2020, we have a request for a variance to allow 2 homes on a single lot to be rebuilt should anything happen to one or both.
Carrier then made the first call for public comment.
Curtis explained the situation that he tried to get financing on the property to help his son out which was denied due to it being out of compliance and would like to have the variance to bring things into compliance. Property is being used as a rental and both houses are rented out. He is not affecting the neighbors or the community in any way. This is an existing problem that started in 1997 before he owned it that never got resolved all the way. He is hoping to sell the property someday.

Second call for public comment from Carrier.
 Third and final call for public comment to which there was none.
 Public hearing closed at 5:40 PM.
 Bryan asked why not just split the property.
 Curtis replied he can't as the bank won't allow it.
 Bryan stated it was split in 2009 and that was ok.
 Curtis stated it was split in 2009 to put gas lines in. It is a viable solution, but Chemical Bank is not willing to do that. It was recombined because the bank told him to get it back together or pay it off.
 Carrier stated there was some confusion as he felt from the application the request was for insurance purposes, not financing.
 Curtis said there was some concern for insurance as being only 1 home can be rebuilt, would the home be covered. He hadn't had a chance to look into that too much.
 Carrier asked if he has ever heard of the ordinance in law. He reached out to local insurance people to discuss this. What he found is that Mr. Curtis can amend his policy so that he would get fair value for a home that is destroyed. The only thing different is you would have to rebuild that home at another location.
 Curtis stated that the main reason was for refinancing.
 Canterbury stated her understanding was that he wanted a variance that would allow him to rebuild 1 or both homes if burned more than 50% because right now he is noncompliant with houses on a single parcel.
 Curtis stated he feels the appraisal could be completed if he had this variance.
 Johnson questioned whether or not the ZBA could grant a variance on this.
 The question was then posed to McDonagh.
 McDonagh explained that this was part of the zoning ordinance which makes it something that a variance could be granted for and both the Assessor and Building Official were aware of this and stated this was the only way it could be done.
 Carrier brought up that the reason on the application for this was for insurance purposes.
 Johnson stated on the application the reason given was variance needed so Township would allow rebuilding for any loss.
 Mason stated and that would even be over 50%. If this is granted, then anyone who owns it would be able to keep 2 houses on the property as a variance stays with the property not the owner.
 Johnson asked if this would be the last time he would be trying to change this.
 Curtis stated he didn't want to do it this time but he was a little nervous about whether or not the appraiser would accept the decision with the path the Board was going.
 Bryan stated she felt splitting the property is the right thing to do and asked if he had tried another bank.
 Curtis explained that Chemical Bank was the only one who would work with him on this property and he had talked to other people and keeps getting various opinions.
 Mason asked if there was any way to do this so the variance was for him personally so it didn't stay with the property.
 Johnson stated a variance has to stay with the property.
 Motion by Canterbury to allow rebuilding of either home on the property in the event of any loss.
 Support by Johnson.
 Roll Call Vote: Mason – No, Bryan – No, Canterbury – No, Johnson – Yes, Carrier – No. Vote is 4 to 1, motion is denied.

Adjournment:

Motion by Canterbury
 Support Mason
 Adjourned – 5:51 PM

VIENNA TOWNSHIP ZONING BOARD OF APPEALS APPLICATION

I. PROPERTY INFORMATION			
Address or Parcel Number: A323 W VIENNA ROAD		Site Plan Included: ☒ Y ☐ N (Please Include some form of site plan)	
Description of General Location: S SIDE OF M-57 BETWEEN TACO BELL & MCDONALDS			
Current Zoning: C-4	Lot Size: .89A	Current Use: GAS STATION (CLOSED)	
Requesting: ☒ Variance ☐ Interpretation ☐ Administrative Appeal			
Type of Variance(s): ☒ Setbacks ☐ Signage ☐ Parking ☐ Other (Describe Below) FRONT (41.75') EAST SIDE (14')			
Reason / Description of Request: IRREGULAR / SMALL SITE RENDERS TINY BLDG ENVELOPE			
II. APPLICANT INFORMATION			
Name: L&M INVESTORS #1 LLC		Phone: 248 660-3322	
Mailing Address: 48155 WEST RD SUITE 1	City: WIXOM	State: MI	Zip: 48393
III. PROPERTY OWNER INFORMATION (if different from applicant)			
Owner Name: L&M INVESTORS #1 LLC		Owner Phone: 248 660-3322	
Owner Address: 48155 WEST RD SUITE 1	City: WIXOM	State: MI	Zip: 48393
IV. CHECKLIST (Please answer each question to the best of your ability & explain your answer on next page)			
1. Special or unique conditions and circumstances exist which are not generally applicable to other lands, structures, or buildings in the same district.			☒ Yes ☐ No
2. The provisions of this ordinance would deprive the applicant of rights commonly enjoyed by other properties in the same district; and that the variance is the minimum necessary.			☒ Yes ☐ No
3. The special conditions and circumstances do not result from the actions of the applicant.			☒ Yes ☐ No
4. The granting of the variance will be in harmony with the general purpose and intent of this ordinance.			☒ Yes ☐ No
5. The variance will not be injurious to the neighborhood or otherwise detrimental to the general welfare.			☐ Yes ☒ No
6. The spirit of this ordinance shall be observed, public safety secured and substantial justice done.			☒ Yes ☐ No
I hereby affirm that the information provided for this hearing is accurate to the best of my knowledge.			
Applicant Signature 		Date 3/9/20	Applicant Name Printed LUK JOSEPH
Owner Signature 		Date 3/9/20	Owner Name Printed LUK JOSEPH
OPTIONAL: By signing below, I hereby grant permission for Vienna Township Officials and/or Zoning Board of Appeals Members to enter my property for on-site inspection related to this application. (Failure to grant permission will not affect any decision on your application)			
Owner Signature 		Date 3/9/2020	
Office Use Only: Fees Paid: ☐ Y ☒ N Amount Paid: _____ Date Paid: _____ Hearing Date: _____ Decision: ☐ Approved ☐ Denied Determination: _____ _____ Vienna Township ZBA Signature Date Vienna Township ZBA Name Printed			

V. PLEASE EXPLAIN YOUR ANSWERS FROM THE CHECKLIST IN SECTION IV. (NON-USE / DIMENSIONAL)

1. Special or unique conditions and circumstances exist which are not generally applicable to other lands, structures, or buildings in the same district.

ODD SHAPED & EXCEPTIONALY SMALL
PECE OF PROPERTY

2. The provisions of this ordinance would deprive the applicant of rights commonly enjoyed by other properties in the same district; and that the variance is the minimum necessary.

THE SETBACK REQUIREMENTS RENDER
THE SITE UNBUILDABLE

3. The special conditions and circumstances do not result from the actions of the applicant.

SEE ANSWER #1 - BUILDABLE AREA
IS TOO SMALL FOR ANY BUILDING

4. The granting of the variance will be in harmony with the general purpose and intent of this ordinance.

ABSOLUTELY AS WE WILL BE VISUALLY
ENHANCING THE SITE

5. The variance will not be injurious to the neighborhood or otherwise detrimental to the general welfare.

NO, WILL IMPROVE A CURRENTY
DILAPIDATED & RUN DOWN ABANDONED
SITE

6. The spirit of this ordinance shall be observed, public safety secured and substantial justice done.

WITHOUT QUESTION

A drawing of the site/property must be included with the application showing any pertinent details and dimensions necessary.

Vienna Township
Attn: Members of Board of Appeals
3400 W. Vienna Road
Clio Michigan 48420

3.9.2020

Dear Members of the Board of Appeals

My name is David McDade and I am President/CEO of Roark Galt Architects located here in Clio.

I have recently designed the Vienna Centre located across from Walmart on Linden Rd. and my client was to construct a Jimmy John's Sub shop within the facility but was turned down by corporate due to the location. They would rather be on M-57 and east of I-75.

The current closed Gas Station located at 4323 W. Vienna Road is an ideal location and corporate agrees.

The site has several concerns due to an irregular shape and considerably small area at only .89 acres. To make things more difficult, the service drive (Old Vienna Road) cuts into the site and with the MDOT ROW almost half of the available land has been reduced.

The existing facility and grounds are in very poor condition and the current topography on the site enables surface water to run onto both McDonald's to the east and Taco Bell to the south. In addition, the current Gas Canopy is located almost to the edge of the ROW.

The Vienna Township Zoning Ordinance calls for a 100' Front Yard Setback, 42' Side Yard Setbacks, and a 52' Rear Yard Setback. Due to the size of the site along with the irregular configuration and the site reduction with the service drive it creates a building envelope so small that it renders the site virtually unbuildable. The only solution would be to utilize the existing building and grounds, and this would be most unfortunate and aesthetically repulsive.

My Client, L& M Investors#1 LLC wishes to construct (2) small buildings with one being a Jimmy John's Sub and the other a new franchise; 1111 Burgers and Fries. Due to the nature of the site however there is no way to construct either of these buildings without violating the setback requirements per Vienna Township Ordinance.

If we are granted this ordinance the new site will provide the following improvements:

- 1) New buildings total 2,484 S.f. – reducing the total building area of existing 3,184 s.f. building by 700 s.f.
- 2) Removal of existing gas canopy reduces the current front setback violation by almost 40'.
- 3) New buildings are in alignment with the Taco Bell front building line to the west and setback from McDonalds front building line by 20.5'.
- 4) We will be creating new drainage that will prevent water runoff onto adjacent properties.
- 5) We will be adding landscaping per Vienna Township ordinances and improving the site aesthetically.
- 6) Removing the existing building and providing a fresh architectural design will enhance the area.
- 7) Two new businesses will take the place of one non functioning business.
- 8) We believe a gas station on this site is not a good location, but due to the additional fast food restaurants it is ideal for this project.

We sincerely hope that the Board of Appeals grant us these (2) variances by recognizing the benefit this project will have on the community.

Yours Sincerely,

David J. McDade
President/CEO
Roark Galt Architects



Summary of Request

Location: 4323 W Vienna

Zoning: C-4 (Commercial Highway)

Request: Variance for front, east side & parking lot setback, number of parking spaces

Description: Will be tearing down current gas station between McDonalds and Taco Bell and putting up 2 small drive thru restaurants. The site plan was reviewed by Rowe Professional Services and the Planning Commission. The Planning Commission approved the site plan on the condition of getting variances for building and parking lot setbacks as well as the number of parking spaces. The size and shape of this lot makes it very difficult to build a new commercial building under today's zoning requirements. The current building, if built today, would not be allowed without a variance under the current zoning requirements.

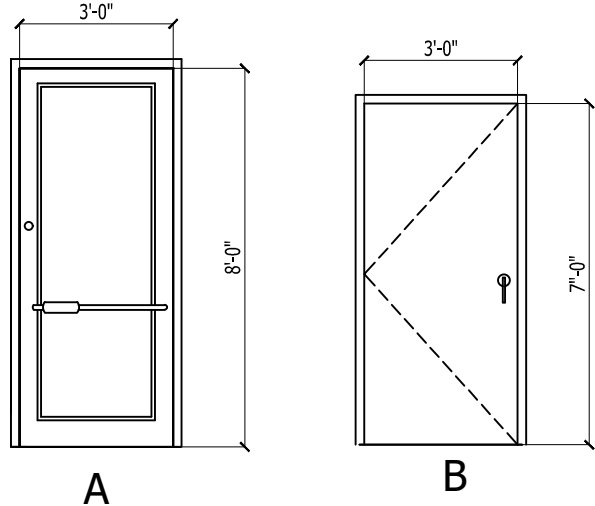
Article 18 Setbacks Variances (shown on pages S3 & S4 in site plan):

- Front = 53 ft. 8 in, 100 feet Required – Variance Needed
- West = 53 ft. 2 in, 42 feet Required
- Rear = 65 ft. 11.4 in, 52 feet Required
- East = 30 ft. 8.8 in, 42 feet Required – Variance Needed
- Parking Lot Setback – 0 feet to Right-of-Way, 12 ft. setback required – Variance Required?
 - From footnote i, Article 18 – The required front yard setback may be reduced to not fewer than 25 feet, provided that there are no off-street parking spaces within the front yard. Otherwise, parking may be permitted within the required front yard setback provided that the parking setback is not fewer than twelve (12) feet and an area within the front yard, including the twelve (12) feet remains as lawn or landscaped area which is equal to the percentage of specified area of the required front yard setback.
 - Should this setback be from the road or from the right-of-way?

Parking: Applicant calculated need for 16 parking spaces, Rowe calculated 19 required which the Planning Commission agreed with. Looking for a variance on 3 spaces

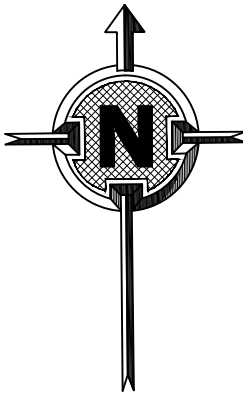
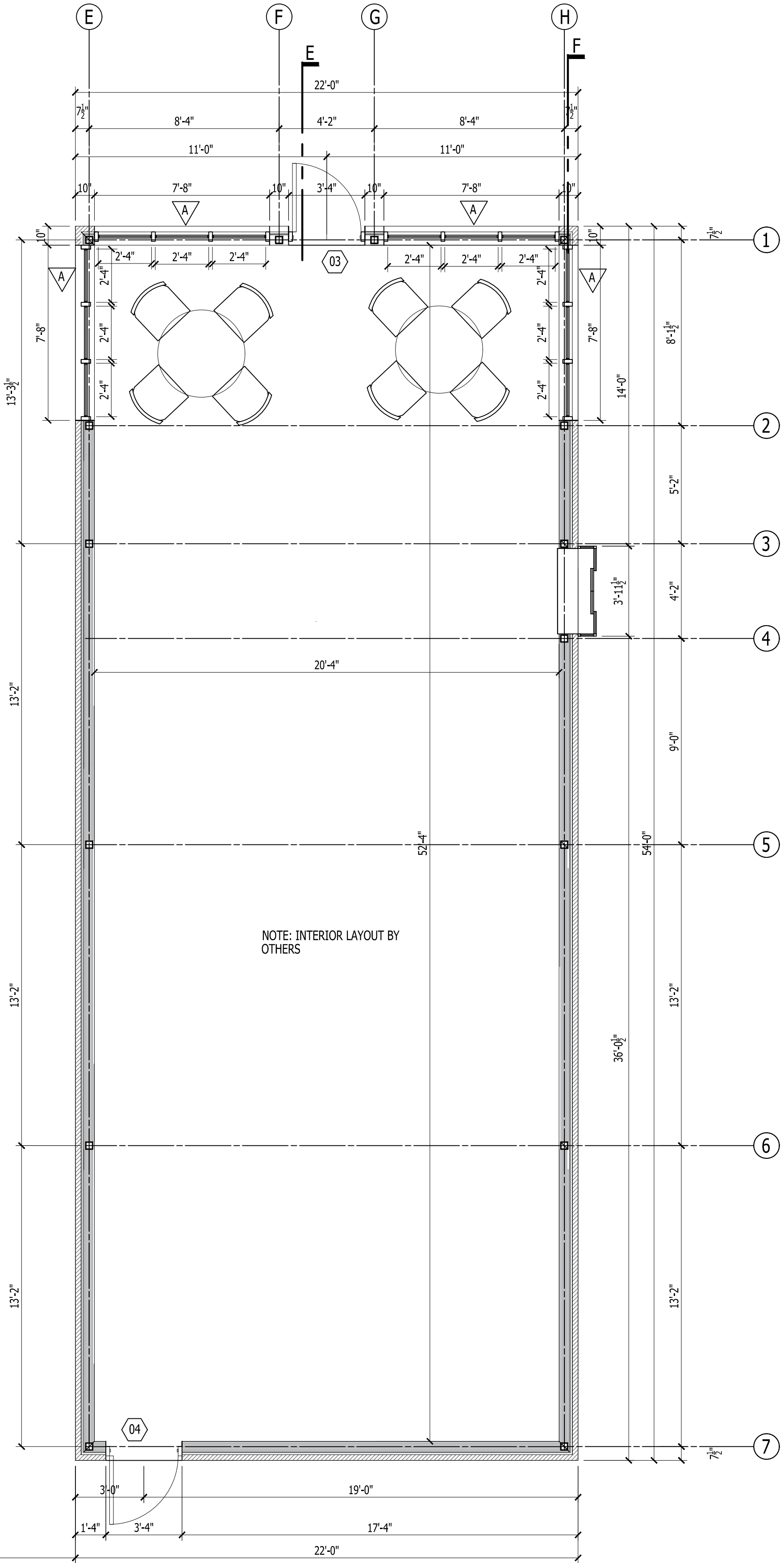
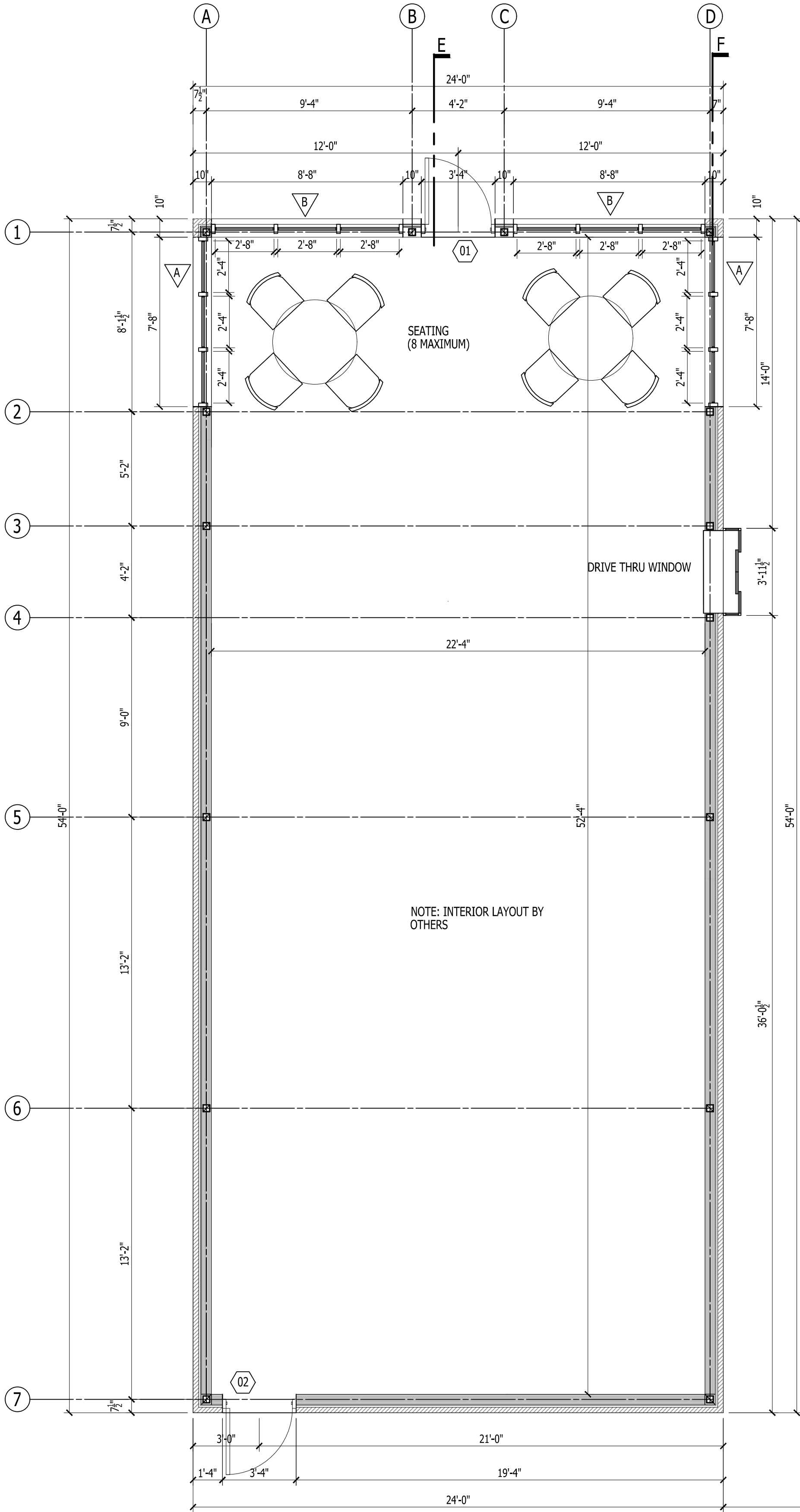


DOOR SCHEDULE															FIRE RATING	HARDWARE AND ACCESSORIES INFORMATION	ADDITIONAL REMARKS
DOOR OPENING	DOOR TYPE	SIZE	MATERIAL	FRAME INFORMATION	MATERIAL	FINISH	GLASS TYPE	GLASS THICKNESS	GLASS FINISH	GLASS TREATMENT	GLASS COLOR	GLASS PATTERN	GLASS MARKING	GLASS LOCATION			
1	1	7'-0" X 8'-0"	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	1" INSUL LOW E GLASS, ARGON GAS FILLED / TEMPERED	1/2"	1" INSUL LOW E GLASS, ARGON GAS FILLED / TEMPERED	1" INSUL LOW E GLASS, ARGON GAS FILLED / TEMPERED	1" INSUL LOW E GLASS, ARGON GAS FILLED / TEMPERED	1" INSUL LOW E GLASS, ARGON GAS FILLED / TEMPERED	1" INSUL LOW E GLASS, ARGON GAS FILLED / TEMPERED	1" INSUL LOW E GLASS, ARGON GAS FILLED / TEMPERED			SAFETY GLASS IN DOOR/TRANSOM AND WITH SIDELITES
2	2	7'-0" X 8'-0"	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	1" INSUL LOW E GLASS, ARGON GAS FILLED / TEMPERED	1/2"	1" INSUL LOW E GLASS, ARGON GAS FILLED / TEMPERED	1" INSUL LOW E GLASS, ARGON GAS FILLED / TEMPERED	1" INSUL LOW E GLASS, ARGON GAS FILLED / TEMPERED	1" INSUL LOW E GLASS, ARGON GAS FILLED / TEMPERED	1" INSUL LOW E GLASS, ARGON GAS FILLED / TEMPERED	1" INSUL LOW E GLASS, ARGON GAS FILLED / TEMPERED			SAFETY GLASS IN DOOR/TRANSOM AND WITH SIDELITES
3	3	7'-0" X 8'-0"	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	1" INSUL LOW E GLASS, ARGON GAS FILLED / TEMPERED	1/2"	1" INSUL LOW E GLASS, ARGON GAS FILLED / TEMPERED	1" INSUL LOW E GLASS, ARGON GAS FILLED / TEMPERED	1" INSUL LOW E GLASS, ARGON GAS FILLED / TEMPERED	1" INSUL LOW E GLASS, ARGON GAS FILLED / TEMPERED	1" INSUL LOW E GLASS, ARGON GAS FILLED / TEMPERED	1" INSUL LOW E GLASS, ARGON GAS FILLED / TEMPERED			SAFETY GLASS IN DOOR/TRANSOM AND WITH SIDELITES
4	4	7'-0" X 8'-0"	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	1" INSUL LOW E GLASS, ARGON GAS FILLED / TEMPERED	1/2"	1" INSUL LOW E GLASS, ARGON GAS FILLED / TEMPERED	1" INSUL LOW E GLASS, ARGON GAS FILLED / TEMPERED	1" INSUL LOW E GLASS, ARGON GAS FILLED / TEMPERED	1" INSUL LOW E GLASS, ARGON GAS FILLED / TEMPERED	1" INSUL LOW E GLASS, ARGON GAS FILLED / TEMPERED	1" INSUL LOW E GLASS, ARGON GAS FILLED / TEMPERED			SAFETY GLASS IN DOOR/TRANSOM AND WITH SIDELITES



WINDOW SCHEDULE					
SYM.	QUAN.	ROUGH OPENING SIZE	MATERIAL	WINDOW TYPE	REMARKS
A	6	7'-8" X 8'-3 1/2"	ALUMINUM	FIXED	1" INSUL LOW E GLASS, ARGON GAS FILLED / TEMPERED
B	2	8'-8" X 8'-3 1/2"	ALUMINUM	FIXED	1" INSUL LOW E GLASS, ARGON GAS FILLED / TEMPERED

NOTE: CONTRACTOR TO VERIFY SIZES PRIOR TO FINALIZING ROUGH OPENING SIZES.
SEE BUILDING ELEVATIONS FOR WINDOW SASH CONFIGURATION



FLOOR PLANS

SCALE: 1" = 20'-0"

ISSUED FOR

DATE

APPROVALS

3.26.20

PROJECT DESCRIPTION:

SITE PLAN FOR
JIMMY JOHN'S 1111 burgers and fries

ADDRESS:

4323 W VIENNA ROAD
CLIO, MICHIGAN 48420

DRAWN BY:

DJM

CHECKED:

DJM

SCALE:

3/16" = 1'-0"

DATE:

3.26.20

JOB NUMBER:

20200011

TITLE:

FLOOR PLANS

SHEET NUMBER

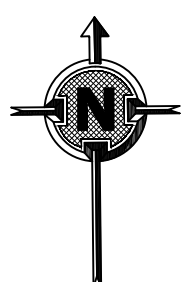
A1
OF
3

I, THE ARCHITECT, HEREBY CERTIFY THAT THIS DRAWING IS THE PROPERTY OF ROBERTSON & ASSOCIATES, INC. AND THAT IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF ROBERTSON & ASSOCIATES, INC. THE ARCHITECT'S LIABILITY FOR NEGLIGENCE OR FOR ANY OTHER CAUSE OF ACTION SHALL BE LIMITED TO THE AMOUNT OF THE FEE FOR THE SERVICES PROVIDED BY THE ARCHITECT.



ARCHITECT SIGNATURE:

11



SCALE: 1" = 20'-0"

NOTE: ALL UTILITIES AS SHOWN ARE TAKEN FROM EXISTING RECORDS
CONTRACTOR IS TO VERIFY ALL UTILITIES AND LOCATIONS PRIOR TO COMMENCING WORK.

2.0 Excavate as required to install footings shown on drawings. All footings shall bear on firm and undisturbed soil regardless of depth shown on drawings. All exterior footings shall extend a minimum of 3'6" below finished grade. All interior footings shall extend a minimum 3'6" below existing grade

2.1 Soil capacity - Test borings where not made available for footing design. All footing designed with the assumed soil bearing pressure of 1,500 psf unless noted otherwise on plans. If soil of this capacity is not found at elevation indicated, lower or enlarge footing at the direction of the Architect and at the owners expense.

2.2 Back filling operations are the responsibility of the contractor. Foundation walls shall be adequately braced before back filling all back fill materials shall be approved granular materials compacted to 95% maximum density, at optimum moisture content over entire area.

2.3 Strip top soil from entire area of construction, and stockpile where directed by owner, for reuse in final grading. All excavated fill material shall be removed from the site, at the contractors expense

2.4 Demolition - All demolition materials shall be removed from the site and legally disposed of

2.5 The contractor shall visit the site to obtain first hand knowledge of his specific requirements.

2.6 Care shall be taken to protect adjacent undisturbed areas and to minimize disruption to owner's normal activity. protection of existing structures shall be the contractors responsibility.

2.7 Properly cap, plug or seal all water, sewer, gas and electric, as required. Coordinate with utility company.

2.8 No cutting of structural members without specific direction of the Architect.

2.9 The premises shall be left neat, clean and orderly ready for the construction trades.

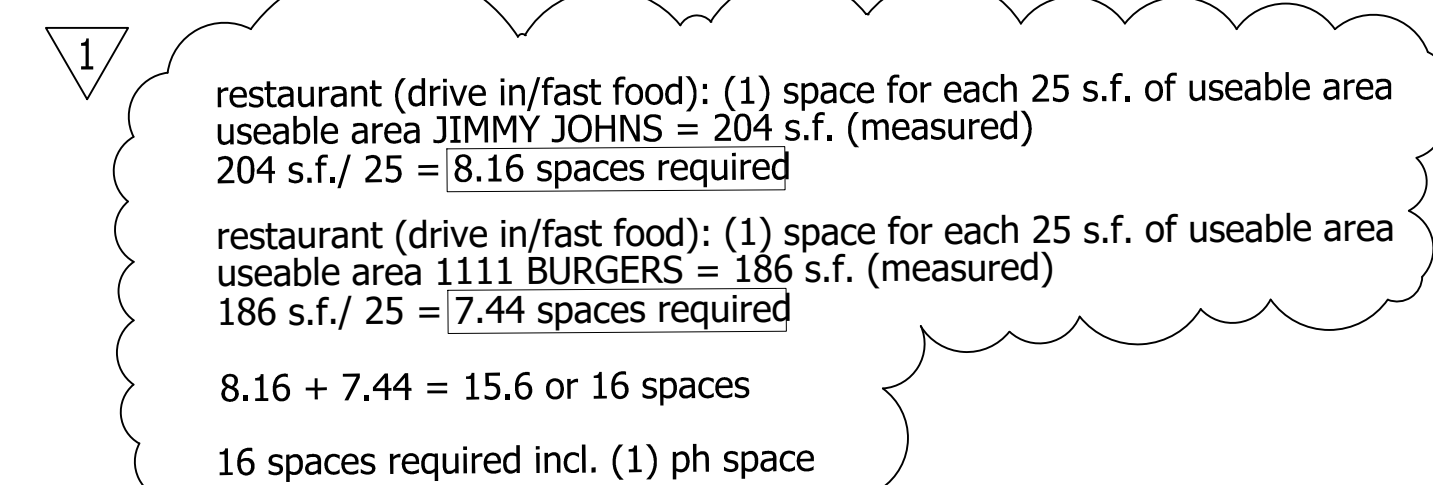
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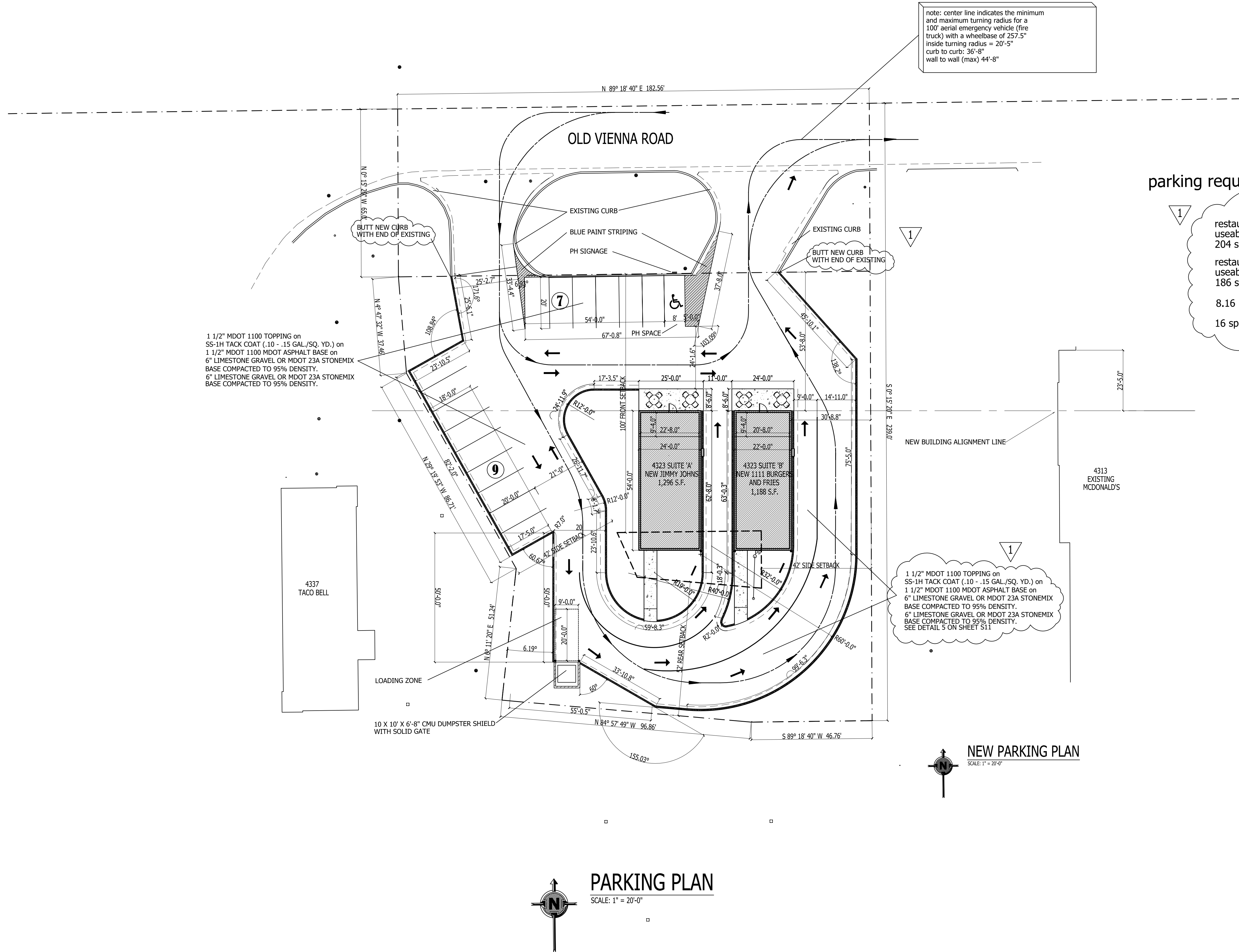
PROJECT DESCRIPTION:

12





ISSUED FOR	DATE
SITE APPR.	4.30.20
REVISION 1	5.18.20
A CHECK OF ALL THE DRAWINGS IN THE SET OF PLANS FOR ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CLIENT LISTED AND THEIR LEGAL ADDRESS OR RESIDENCES, AND THE PROJECT LOCATION, HAS BEEN MADE BY THE ARCHITECT. THE ARCHITECT UNDERTAKES NO RESPONSIBILITY FOR THE ACCURACY OF THE INFORMATION PROVIDED HEREIN. THE ARCHITECT SHALL BE LIABLE TO THE CLIENT FOR ANY ERRORS OR OMISSIONS IN THE DRAWINGS. THE ARCHITECT'S LIABILITY FOR ANY ERRORS OR OMISSIONS IN THE DRAWINGS SHALL BE LIMITED TO THE AMOUNT OF THE FEE FOR THE SERVICES PROVIDED. THE ARCHITECT'S LIABILITY FOR ANY ERRORS OR OMISSIONS IN THE DRAWINGS SHALL BE LIMITED TO THE AMOUNT OF THE FEE FOR THE SERVICES PROVIDED.	
	15500 N. LINCOLN ROAD OLD MICHIGAN SUITE 100 SHALL: SHARPSIGNATURE.COM
PROJECT DESCRIPTION: SITE DESIGN FOR JIMMY JOHN'S 1111 burgers and fries	
ADDRESS: 4323 W VIENNA ROAD CLIO, MICHIGAN 48420	
DRAWN BY: DJM	
CHECKED: DJM	
SCALE: 1" = 20'	
DATE: 4.30.20	
JOB NUMBER: 20200009	
TITLE: NEW SITE	
SHEET NUMBER S3 OF 12	
ARCHITECT SIGNATURE:	

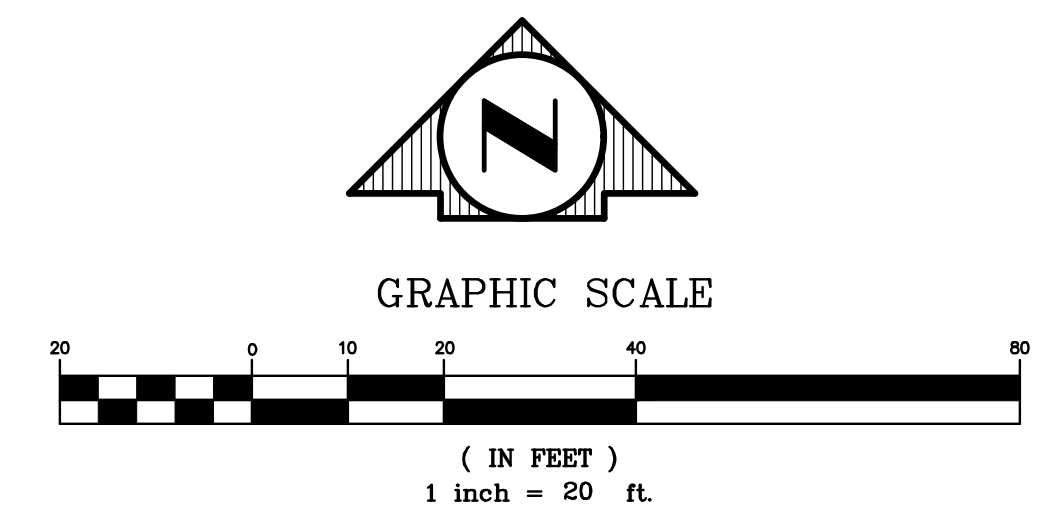
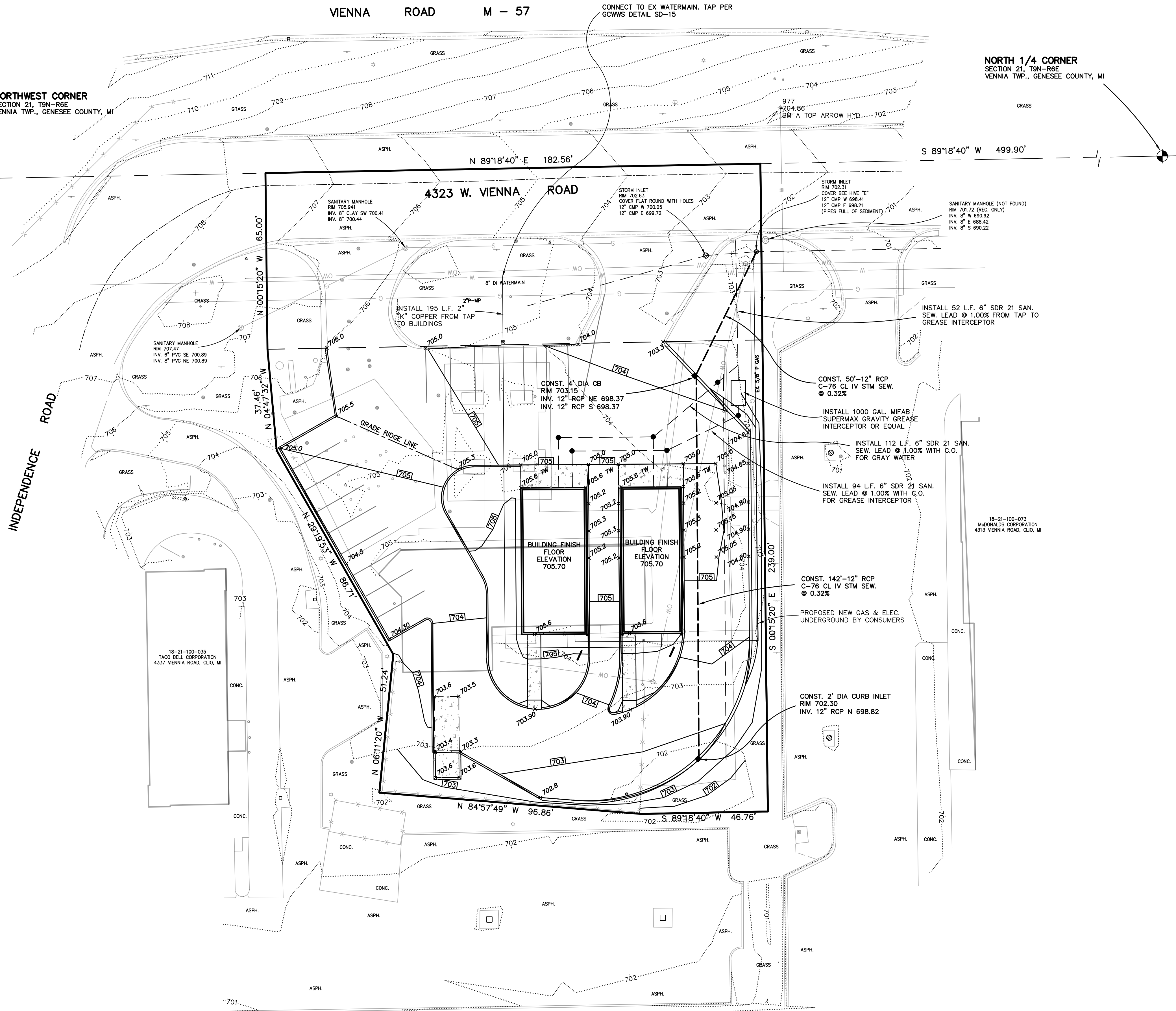


ISSUED FOR	DATE
SITE APPR	4.30.20
REVISION 1	5.18.20
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ROBERT L. C. COMPANY 1000 N. LINCOLN ROAD, CLIO, MI 48420 TEL: 517.357.1800 EMAIL: RLC@RLCCOMPA.COM	
ARCHITECT SIGNATURE:	

PROJECT DESCRIPTION:
SITE DESIGN FOR
JIMMY JOHN'S 1111 burgers and fries

ADDRESS:
4323 W VIENNA ROAD
CLIO, MICHIGAN 48420

DRAWN BY: DJM
CHECKED: DJM
SCALE: 1" = 20'
DATE: 4.30.20
JOB NUMBER: 20200009
TITLE: PARKING PLAN
SHEET NUMBER S4 OF 12



LEGEND	
PROPOSED	EXISTING
PROPOSED SANITARY SEWER	SANITARY SEWER & MANHOLE
PROPOSED WATERMAIN	WATERMAIN, HYDRANT, & GATE VALVE
PROPOSED STORM SEWER	STORM SEWER & MANHOLE
PROPOSED SANITARY MANHOLE	GAS MAIN & VALVE
PROPOSED FIRE HYDRANT	BURIED TELEPHONE & MANHOLE
PROPOSED VALVE & BOX	UNDER GROUND ELECTRIC & PEDESTAL
PROPOSED STORM MANHOLE	OVERHEAD ELECTRIC, POLE, & GUY WIRE
PROPOSED STORM CATCH BASIN	CATCH BASIN (CURB & ROUND)
PROPOSED STORM INLET	CONTOUR LINE
PROPOSED SAND BACKFILL C.I.P. SEE NOTE THIS SHEET	FENCE
	GUARD RAIL
	WELL
	LIGHT POLE
	METAL POLE
	SIGN
	STREET SIGN
	MAILBOX

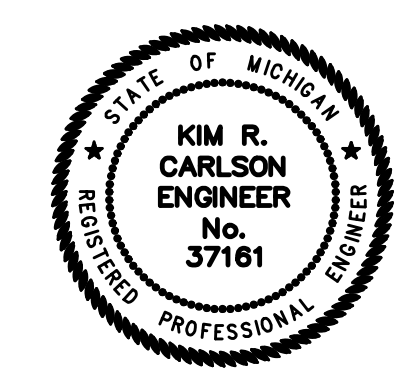
- NOTES:
1. ALL UNDERGROUND UTILITIES UNDER THE INFLUENCE OF PAVEMENT SHALL HAVE THEIR TRENCH BACKFILLED WITH COMPACTED CLASS II SAND TO 95% MODIFIED PROCTOR.
 2. PROPOSED CURB GUTTER PAN SLOPE IS TO MATCH SLOPE OF ADJOINING PAVEMENT.
 3. ALL PROPOSED GRADE ELEVATIONS SHOWN ARE FOR TOP OF PAVEMENT SURFACE UNLESS OTHERWISE NOTED. ADD CURB HEIGHT TO TOP OF SURFACE GRADE TO OBTAIN TOP OF CURB GRADE.
 4. STORM WATER DETENTION IS NOT REQUIRED FOR THIS SITE BECAUSE THE IMPERVIOUS AREA IS REDUCED BY THE PROPOSED DEVELOPMENT AS COMPARED TO THE EXISTING IMPERVIOUS AREA CONDITION.
 5. GAS AND ELECTRIC ARE PROPOSED TO BE SERVED UNDERGROUND AS DESIGNED BY CONSUMERS ENERGY.

DRAINAGE AREA CALCULATIONS, EXISTING/PROPOSED:

TOTAL AREA: 34,154 S.F.

EXISTING IMPERVIOUS AREA: 28,815 S.F.
EXISTING PERVIOUS AREA: 5,339 S.F.

PROPOSED IMPERVIOUS AREA: 27,577 S.F.
PROPOSED PERVIOUS AREA: 6,577 S.F.



Revisions

5-15-20

GRADING & UTILITY PLAN

JIMMY JOHNS & 1111 BUGER & FRIES
SECTION 21, VIENNA TOWNSHIP
GENESEE COUNTY, MICHIGAN

F.S.E
Surveying & Engineering
Since 1957
5370 MILLER ROAD, SUITE A3 • SWARTZ CREEK, MI 48473
PHONE: (810) 230-1333 FAX: (810) 230-7844

Date : 3-27-20

Drawn by: S.V.C.

Designed by: K.R.C.

Sheet No. S5 OF 12

Job No. 26040

DEMOLITION NOTES

- a.Prior to beginning any of this work the contractor shall notify GCDC–WWS at (810) 732–7870 and fill out the necessary forms or permits. The contractor shall cut and seal the existing sanitary lead at the property line and shall disconnect the existing water service lead at the curb box shut–off valve on the house side of the valve.
- b.All demolition work shall conform to all local codes and ordinances. All demolition operations shall comply with MIOSHA regulations insofar as they apply to the required work. A Soil Erosion and Sedimentation Control Permit will be required prior to demolition.
- c.The contractor shall remove and clear all trees, brush, fences, buildings, curb, and asphalt as shown on the plans or as directed by the Engineer.
- d.All demolition material shall be properly removed from the site and disposed of in a legally designated disposal area. No on–site burning will be allowed without proper permission. Permits and fees for disposal of demolition material shall be obtained and paid for by the contractor.
- e.The contractor shall demolish and remove any items remaining from the existing building, in its entirety, including walls, foundations and footings. All building drains and utility leads shall be located and properly plugged. Utility lead work shall be coordinated with the appropriate utility company.
- f.Backfill excavated areas with clean granular fill compacted to 95% of the material unit weight by modified proctor.
- g.At the conclusion of the demolition operations, the entire work area shall be left in a clean condition. All protective devices and barriers shall be removed.

10 STANDARD NOTES FOR PRELIMINARY PLATS & SITE PLANS

To obtain preliminary plat or site plan approval from GCDC–WWS, the following 10 Standard Notes must be shown. A listing of these notes will not meet the GCDCWWS conditions for approval; the application of each note must be explained on the site plan.

- 1.EXTENSION OF PUBLIC UTILITIES: All public sanitary sewer and/or watermain SHALL be extended to the furthest limits of the property, including corner lots, with the pipe size and material approved by GCDCWWS. This is necessary for plan approval. For water service of 1" or less or a building on a corner lot, the requirements to extend the public watermain and/or sanitary sewer along both property lines will be reviewed. Final determination shall be made by GCDC–WWS.
- 2.WATERMAIN LOOPING: All public watermain shall be looped whenever possible. The pipe sizing shall be approved by GCDC–WWS.
- 3.INDUSTRIAL PRETREATMENT PROGRAM (IPP): This permit is required for all commercial and industrial discharges. The OWNER shall obtain an Industrial Pretreatment Discharge Permit prior to the issuance of a Sewer Connection Permit. Industrial Discharge Permits are non–transferable. Changes in facility use will require a new Industrial Discharge Permit.
- 4.SOIL EROSION: The DEVELOPER shall submit a detailed Soil Erosion and Sedimentation Control plan and obtain an Act 451 Part 91, Soil Erosion and Sedimentation Control permit. This includes the payment of fees and the providing of necessary bonds. No earth changes or excavation shall be started prior to the issuance of this permit. The DEVELOPER shall protect all existing and proposed storm sewer facilities on and adjacent to the site during excavation and construction. All sediment shall be contained on site. Any silt in county drains, storm sewer, culverts, etc. as a result of this project, shall be removed by the DEVELOPER at the cost of the DEVELOPER.
- 5.FLOOD PLAIN OR WETLAND CONSTRUCTION: The DEVELOPER shall apply to the Michigan Department of Environmental Quality for a permit for the alteration and/or occupation of a flood plain or floodway, as required under PA 451. Evidence of this permit may be required prior to plan approval by GCDC–WWS.
- 6.NPDES STORM WATER DISCHARGE PERMIT: The owner of the property shall obtain a NPDES Storm Water Discharge permit for construction activities from MDEQ as required under Public Act 451. The notice of coverage form shall be submitted through GCDC–WWS with the Soil Erosion Control permit application. All MDEQ fees shall accompany the Notice of Coverage. Evidence of this permit may be required prior to plan approval by GCDC–WWS.
- 7.GENESEE COUNTY PERMIT TO CONSTRUCT A PUBLIC UTILITY: After the approval of this preliminary plat or site plan, the DEVELOPER shall submit a detailed plan for construction of all public sanitary sewer and watermain. The plans must have GCDC–WWS approval, a S–permit issued, and approval from the MDEQ prior to beginning construction.
- 8.GENESEE COUNTY ROAD COMMISSION PERMIT: The DEVELOPER shall obtain a permit from the Genesee County Road Commission to perform work within the Genesee County Road Commission Right–of–Way. All fees for the permit, bonds and insurances are the responsibility of the developer.
- 9.MUNICIPALITY SANITARY SEWER AND WATER PERMIT: Prior to the issuance of a building permit by the local municipality, the developer shall be required to obtain a sanitary sewer and/or water tap–in permit from the local municipality, if authorized, or GCDC–WWS.
- 10.STATE CONSTRUCTION PERMITS: The sanitary sewer and watermain construction permit application from the Michigan Department of Environmental Quality (MDEQ) shall be submitted to the MDEQ after receiving approval from GCDC–WWS. Construction shall not begin until these state permits are issued.

**SUPER-1000**

SUPERMAX® GRAVITY GREASE INTERCEPTOR - 1000 GALLONS LIQUID HOLDING CAPACITY

Specification: MIFAB® SUPER-1000 gravity grease interceptor with 1000 U.S. gallons of liquid holding capacity has a limited lifetime warranty and is made in the U.S.A. out of seamless, rotationally molded High Density Polyethylene with 3/8" uniform wall thickness. Interceptor is designed for above or below ground installation and includes extension pipe gasket for ADS 24N12 (pipe not included) for the adjustable lid system, sample port access, internal baffle, deep seal trap covered by lid, internal air relief by-pass, stainless steel calibrated orifice plate (internal flow control), base for support and floor level installation and 4" no hub inlet and outlet connections. Steel encased composite lids provide a water / gas tight seal and have a minimum of 20,000 L.B. load capacity - in accordance with the loading requirements of AASHTO H20. The high density polyethylene material is PE 3135 from Dow 9.39 with a density of 0.939 g/cm3. Note that the interceptor is tested and certified to the ASME A112.14.3, CSA B481 and ANSI Z1001 Standards and listed with I.A.P.M.O. For indoor/outdoor use.

Function: Used in restaurants, kitchens, institutions, industrial facilities such as food processing and packaging plants and other types of food processing areas where fat, oil and grease (FOG) drains with the waste water. All SuperMax gravity interceptors can withstand a temperature of up to and including 180 degrees Fahrenheit.

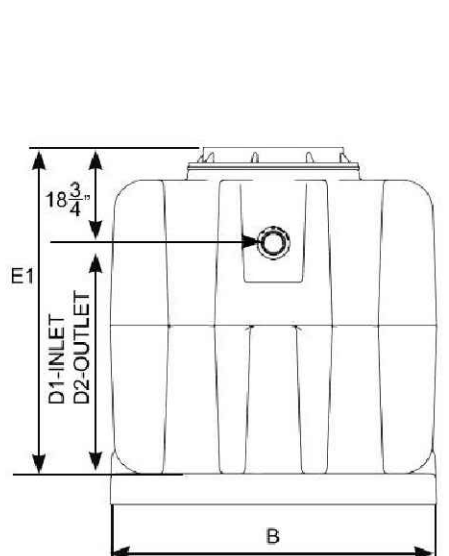


U.S. Patent # 9,551,142

Illustrated with 24" Dia. ADS pipe (ADS model #24N12)

Illustrated with standard direct connect lid

ANSI ASME



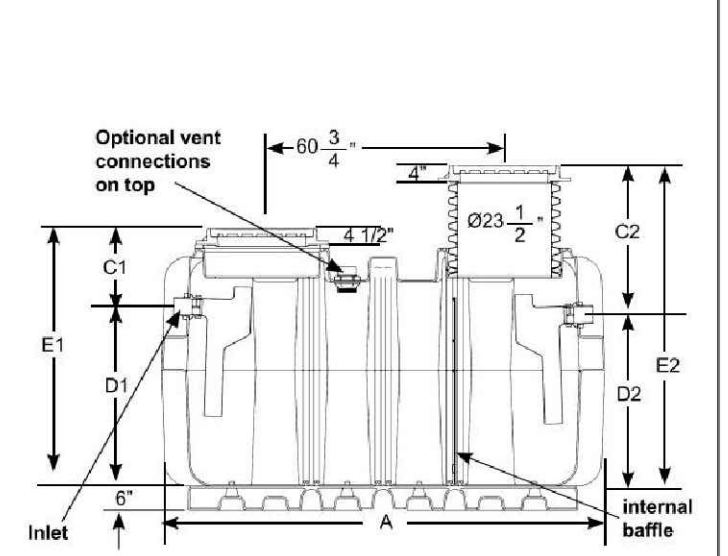
18 3/4"

E1

D1-INLET

D2-OUTLET

B



Optional vent connections on top

60 3/4"

C1

D1

E1

4 1/2"

Ø23 1/2"

C2

E2

Inlet

6"

A

Internal baffle

Model	Liquid Holding Capacity (Gallons / Cu. Ft.)	Grease Retention Capacity	Sediment Capacity (Gallons)	Flow Rate (GPM)	A	Width B	C' Dim.	C" Dim.	D' Dim.	D" Dim.	E' Dim.	E" Dim.	F Connection Size	Shipping Weight (Lbs.)
 SUPER-1000	1,015 / 135	6,577 lbs.	102	250	111"	64"	18.75"	37.25"	45.25"	43.25"	64"	80.50"	4"	1,075
					2820mm	1630mm	476mm	946mm	1149mm	1099mm	1626mm	2045mm	102mm	

PROPOSED GREASE INTERCEPTOR
NO SCALE

EASEMENT STATEMENT

ALL PUBLIC SANITARY SEWER AND PUBLIC WATERMAINS SHALL HAVE AN EASEMENT GRANTED TO GCDC–WWS AND/OR LOCAL MUNICIPALITY FOR MAINTENANCE, REPAIR AND/OR REPLACEMENT. FOR CONDOMINIUMS, THE EASEMENT SHALL BE RECORDED ON THE MASTER DEED DOCUMENT AND FOR A SUBDIVISION, THE EASEMENT SHALL BE NOTED ON THE FINAL RECORDED PLAT. ALL OTHERS SHALL BE RECORDED ON THE NEW STANDARD GCDC–WWS EASEMENT FORM.

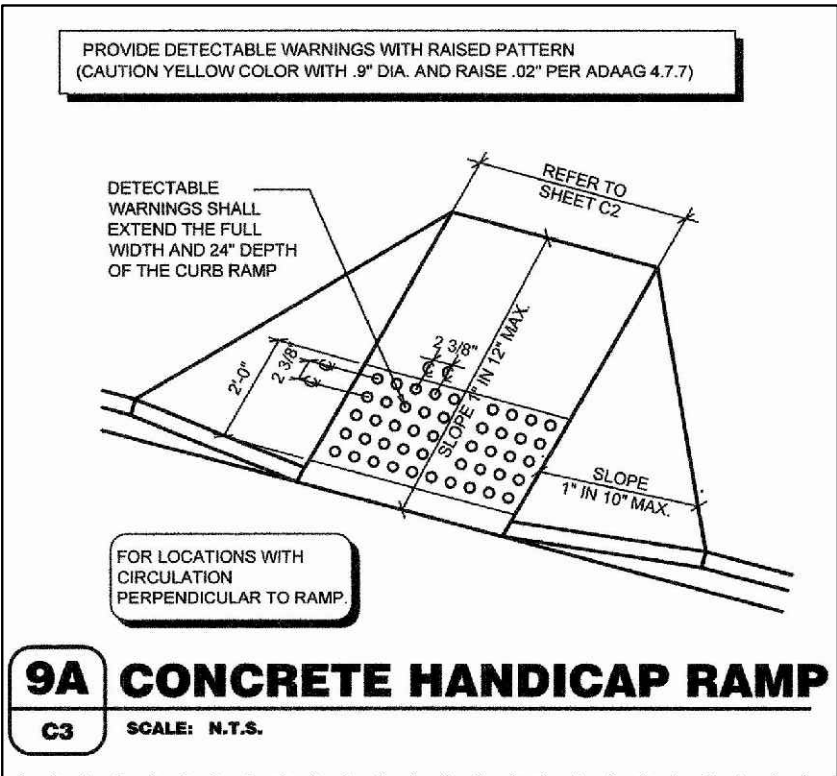
N.P.D.E.S. STATEMENT

THERE WILL BE 0.56 ± ACRES DISTURBED BY THIS PROJECT. A N.P.D.E.S. PERMIT IS NOT REQUIRED.

UTILITY LOCATION AND ELEVATION STATEMENT

PRIOR TO CONSTRUCTION, THE CONTRACTOR IS TO EXPOSE EXISTING UTILITIES TO VERIFY THEIR LOCATION AND ELEVATION.

UNDERGROUND UTILITY LINES SHOWN HEREIN ARE BASED ON VISUAL INSPECTION OF PIPE INVERTS AT MANHOLES AND CATCH BASINS, AND/OR FROM RECORDS OBTAINED FROM UTILITY AGENCIES. NO EXPOSURE, T.V. INSPECTION OR CLEANING OF THE UTILITY LINES HAS BEEN COMPLETED. THEREFORE, THE LOCATION OF UTILITIES SHOWN HEREIN AND THE INTERCONNECTIONS BETWEEN STRUCTURES IS BASED ON OUR BEST ESTIMATION AS TO THEIR RELATIONSHIP TO ONE ANOTHER. THE LOCATION, DIRECTION, INTERCONNECTION AND CONDITION OF UNDERGROUND UTILITIES MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR BEFORE COMMENCING ANY CONSTRUCTION. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY OF INFORMATION PROVIDED BY OTHERS. CONTRACTOR IS RESPONSIBLE FOR CALLING MISS DIG PRIOR TO START OF CONSTRUCTION.



PLAN DISTRIBUTION

AGENCY (UTILITY)

GENESEE COUNTY DRAIN COMM. - WWS
G-4610 BEECHER ROAD
FLINT, MI 48532

GENESEE COUNTY DRAIN COMM. - SESC
G-4610 BEECHER ROAD
FLINT, MI 48532
COUNTY ENFORCING AGENT FOR:
Soil Erosion/Sediment Control,
Part 91 of Act 451 of 1994

GENESEE COUNTY DRAIN COMM. - SWM
G-4610 BEECHER ROAD
FLINT, MI 48532

CONSUMERS ENERGY COMPANY (GAS)
3201 E. COURT STREET
FLINT, MI 48506

CONSUMERS ENERGY COMPANY (ELECTRIC)
1801 W. MAIN STREET
OWOSSO, MI 48867

COMCAST (CABLE TELEVISION)
6095 WALL STREET
STERLING HTS, MI 48312

FRONTIER (TELEPHONE)
224 W. EXCHANGE
OWOSSO, MI 48867

CONTACT PERSON
DATE SUBMITTED
DATE APPROVED

LYNNETTE MEINZ
(810) 732-7870

MARK STEPHENS
(810) 732-7870

TOM JONES
(810) 732-1590

TONNA WILCOX
(810) 760-3486

TRACY MAHARN
(989) 729-3250

CHRIS CYR
(586) 883-7254

MARK STEVENS
(989) 723-0373

WETLANDS NOTE:
NO WETLANDS ARE LOCATED WITHIN THIS SITE.
FLOODPLAIN
THERE IS NO FLOODPLAIN LOCATED ON THIS SITE

CONTRACTOR ALERT STATEMENT:

THIS PROJECT HAS BEEN DESIGNED IMPLEMENTING THE LATEST GCDC–WWS DESIGN SPECIFICATIONS. CAREFULLY REVIEW THE NOTES, DETAILS, AND DESIGN PRIOR TO SUBMITTING A BID. FULL COMPLIANCE WITH THE NEW STANDARDS WILL BE REQUIRED.



Know what's below
Call before you dig.

NOTES & DETAILS

Revisions

5-15-20

NOTES AND DETAILS

**JIMMY JOHNS &
1111 BUGER & FRIES**
SECTION 21, VIENNA TOWNSHIP
GENESEE COUNTY, MICHIGAN

F.S.E
Surveying & Engineering
Since 1957
5370 MILLER ROAD, SUITE A3 • SWARTZ CREEK, MI 48473
PHONE: (810) 230-1533 FAX: (810) 230-7844

Date :
4–29–20

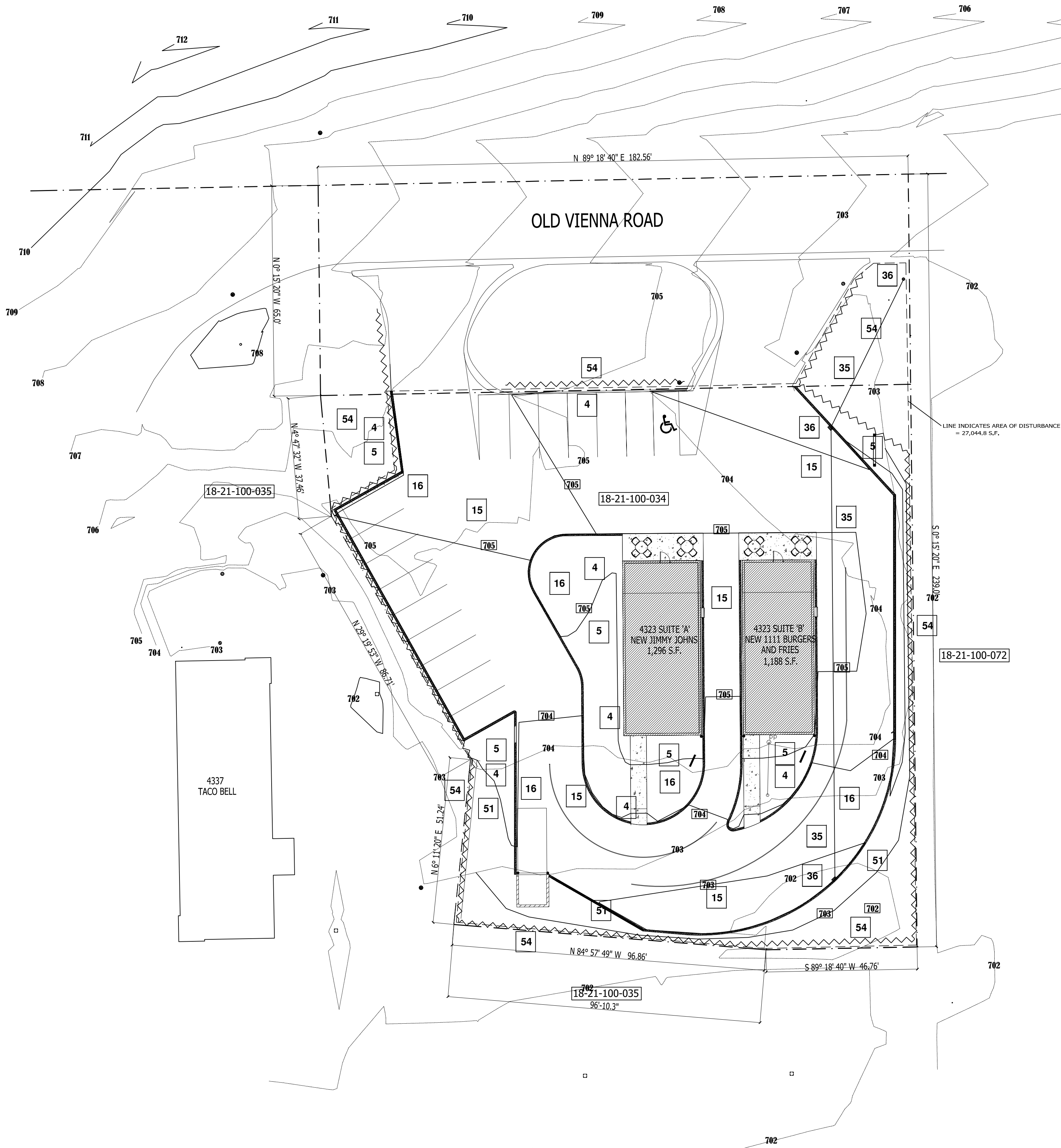
Drawn by:
S.V.C.

Designed by:
K.R.C.

Sheet No.

S6 OF 12

Job No.
26040



SOIL EROSION PLAN

SCALE: 1" = 20'-0"

LAND OWNER INFORMATION:
L&M INVESTORS #1 LLC
48155 WEST ROAD #1
WIXOM, MI 48393
248-615-1111

STANDARD NOTES

1. ALL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM TO STANDARDS AND SPECIFICATIONS.
2. DAILY INSPECTIONS SHALL BE MADE BY THE CONTRACTOR TO DETERMINE EFFECTIVENESS OF EROSION AND SEDIMENT CONTROL MEASURES, AND ANY NECESSARY REPAIRS SHALL BE PERFORMED WITHOUT DELAY.
3. EROSION AND ANY SEDIMENTATION FROM WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT ON ANY OFFSITE AREAS OR IN WATERWAYS. WATERWAYS INCLUDE BOTH NATURAL AND MAN-MADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES AND POND.
4. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN, CONSTRUCTION. SEDIMENT CONTROL PRACTICES WILL BE APPLIED AS A PERIMETER DEFENSE AGAINST ANY TRANSPORTING OR SILT OFF THE SITE.
5. CONTRACTOR SHALL APPLY TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED AND AS DIRECTED ON THESE PLANS. HE SHALL REMOVE TEMPORARY MEASURES AS SOON AS PERMANENT STABILIZATION OF SLOPES, DITCHES, AND OTHER EARTH CHANGES HAS BEEN ACCOMPLISHED.
6. PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND ARE SHALL BE COMPLETE WITH IN 15 CALENDAR DAYS AFTER FINAL GRADING OR THE FINAL EARTH CHANGES HAS BEEN COMPLETED. WHEN IT IS NOT POSSIBLE TO PERMANENTLY STABILIZE A DISTURBED AREA AFTER AN EARTH CHANGE HAS BEEN COMPLETED OR WHERE SIGNIFICANT EARTH CHANGE ACTIVITY CEASES, TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED WITHIN 30 CALENDAR DAYS. ALL TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURE ARE IMPLEMENTED. ALL PERMANENT SOIL EROSION CONTROL MEASURES WILL BE IMPLEMENTED AND ESTABLISHED BEFORE A CERTIFICATE OF COMPLIANCE IS ISSUED.
7. ALL MUD/DIRT TRACKED ONTO EXISTING CITY/COUNTY ROADS FROM THIS SITE, DUE TO CONSTRUCTION, SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR/BUILDER. ALL MUD/DIRT TRACKED OR SPILLED ON PAVED SURFACES WITHIN THIS SITE SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR/BUILDER.

SOIL EROSION & SEDIMENTATION CONTROL

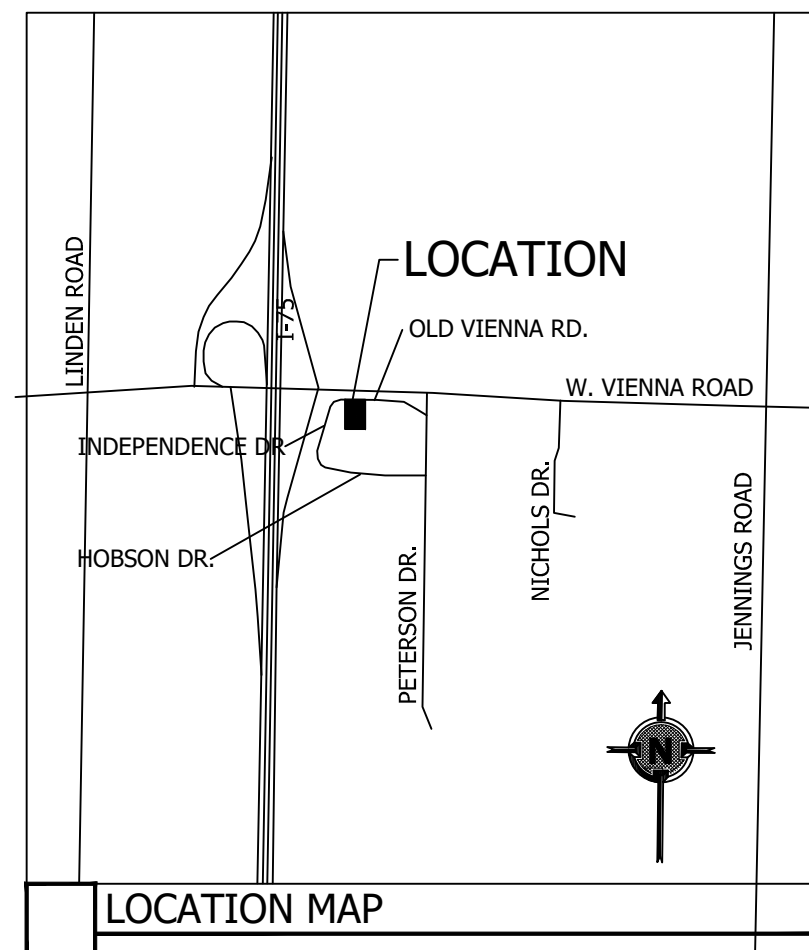
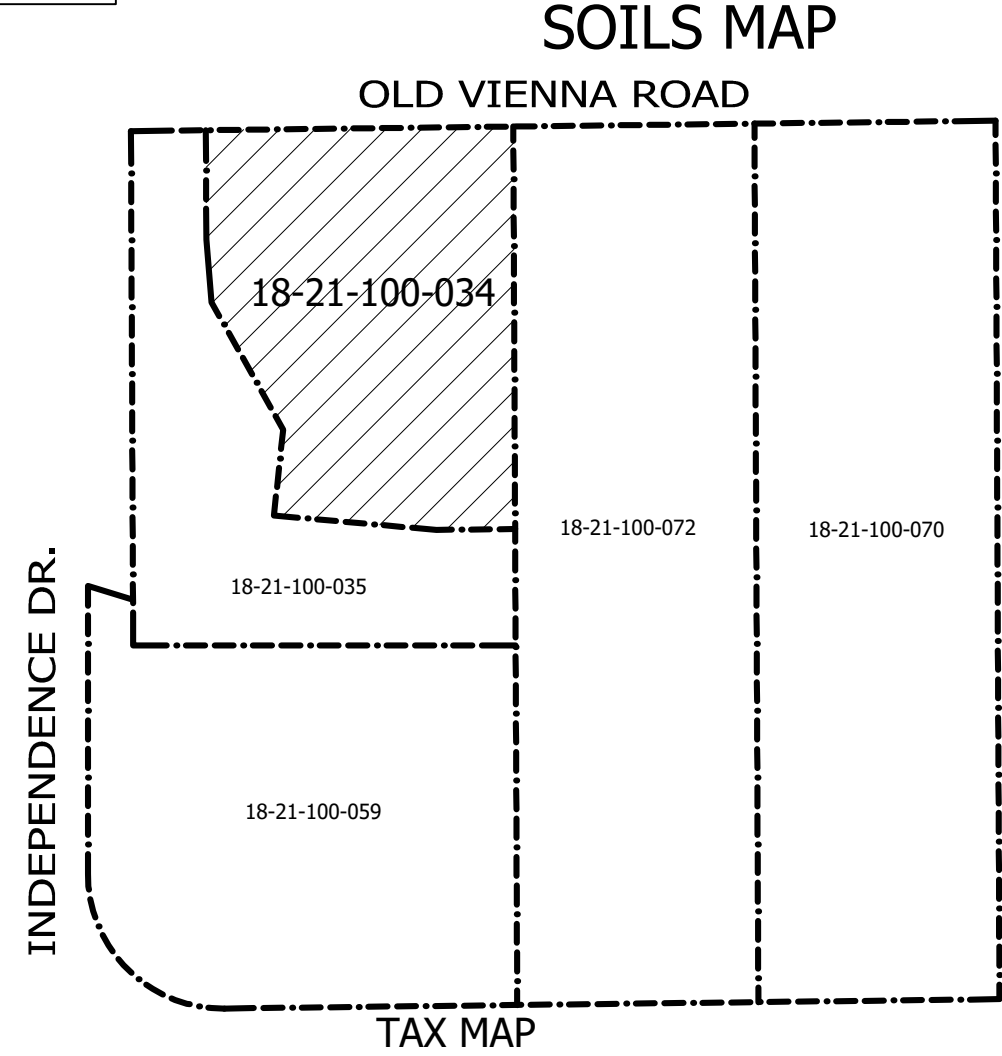
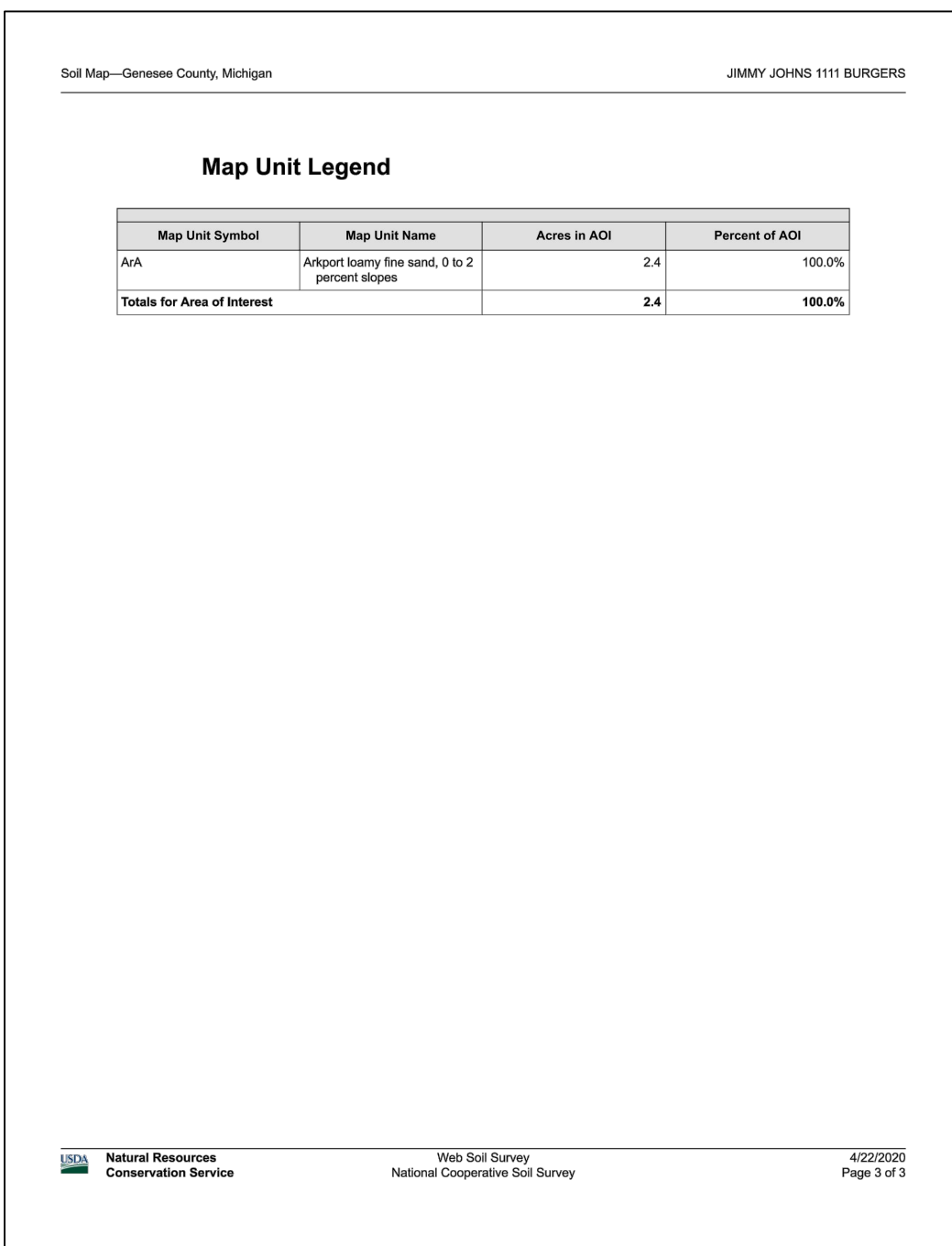
1. DEVELOPER/PROPERTY OWNER SHALL SUBMIT A DETAILED EROSION CONTROL PLAN AND OBTAIN A SOIL EROSION & SEDIMENTATION CONTROL PERMIT PRIOR TO ANY EARTH CHANGES.
2. CONSTRUCTION OPERATIONS SHALL BE SCHEDULED AND PERFORMED SO THAT PREVENTATIVE EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO EXCAVATION AND TEMPORARY STABILIZATION MEASURES ARE IN PLACE IMMEDIATELY FOLLOWING BACKFILLING AND/OR GRADING OPERATIONS.
3. BORROW AND FILL DISPOSAL AREAS WILL BE SELECTED AND APPROVED AT TIME OF PLAN REVIEW.
4. SPECIAL PRECAUTIONS WILL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT SITUATIONS THAT PROMOTE EROSION.
5. CLEANUP WILL BE DONE IN A MANNER TO INSURE THAT EROSION CONTROL MEASURES ARE NOT DISTURBED.
6. THE PROJECT WILL CONTINUALLY BE INSPECTED FOR SOIL EROSION AND SEDIMENT CONTROL COMPLIANCE. DEFICIENCIES WILL BE CORRECTED BY THE DEVELOPER WITHIN 24 HOURS.
7. TEMPORARY EROSION CONTROL MEASURES SHALL BE COMPLETELY REMOVED BY THE DEVELOPER UPON ESTABLISHMENT OF PERMANENT CONTROL MEASURES.

CONSTRUCTION SEQUENCE

1. EXCAVATION AND STOCKPILING OF SOIL.
2. IMPLEMENTATION OF TEMPORARY EROSION CONTROL MEASURES; SELECTIVE GRADING; DIVERSIONS AS REQUIRED IN FIELD, PROTECTION OF STORM SEWER FACILITIES.
3. PERIODIC MAINTENANCE OF AFFECTED EROSION CONTROL MEASURES.
4. PERMANENT MEASURES; FINAL GRADING, SEEDING AND MULCHING.
5. SEE UNIFIED KEYING SYSTEM FOR EROSION CONTROL KEY NUMBERS.

SOIL EROSION/SEDIMENTATION CONTROL OPERATION TIME SCHEDULE

	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
STRIP AND STOCKPILE TOPSOIL																						
ROUGH GRADE/SEDIMENT CONTROL																						
TEMPORARY CONTROL MEASURES																						
STORM FACILITIES																						
TEMPORARY CONSTRUCTION OF ROADS																						
FOUNDATION/BUILDING CONSTRUCTION																						
SITE CONSTRUCTION																						
PERMANENT CONTROL MEASURES																						
FINAL GRADING																						
LANDSCAPING																						



1	Stripping & Stockpiling Topsoil	Topsoil may be stockpiled above borrow area to act as down-slope.
2	Selective Grading & Shoring	Water can be diverted to minimize erosion. Filter slope away erosion problems.
4	Vegetative Stabilization	May utilize a variety of plant materials. Stabilize soil. Slow runoff velocity. Filter sediment from runoff.
5	Seeding	Inexpensive and very effective. Stabilize soil. Slow runoff velocity. Filter sediment from runoff.
13	Flap, Rubble Outlets	Effective where high velocities of flow concentrations. Permit runoff to infiltrate soil reducing runoff volume. Should include prepared spillout bed.
14	Aggregate Cover	Stabilize soil surface, thus minimizing erosion. Permits construction traffic in adverse weather. May be used as part of permanent base construction of paved areas.
15	Rolling	Protects areas which cannot otherwise be protected. Soil increases runoff volume and velocity. Irregular surface will help slow velocity.
16	Curb & Gutter	Keeps high velocity runoff on paved areas from leaving paved surface. Collects and conducts runoff to enclosed drainage system or prepared driveway.
35	Storm Drain	Keeps runoff collected runoff from site, particularly on steep slopes. Conducts runoff to municipal sewer system or stabilized infiltration basin to collect sediment.
36	Catch Basin, Drain Inlet	Collects high velocity concentrated runoff. May use filter cloth and grate.
54	Geotextile	Geotextile fabric and posts and/or poles. Easy to construct and locate as necessary.

ISSUED FOR

VARIANCE

DATE

4.30.20

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ROBERT G. LUTHE, P.E.

REGISTERED PROFESSIONAL ENGINEER

STATE OF MICHIGAN

EXPIRATION DATE 12/31/2024

EMAIL: RGLUTHE@GMAIL.COM

ARCHITECT SIGNATURE:

PROJECT DESCRIPTION:

SITE DESIGN FOR

JIMMY JOHN'S 1111 burgers and fries

DRAWN BY:

DJM

CHECKED:

DJM

SCALE:

1" = 20'

DATE:

4.30.20

JOB NUMBER:

20200009

TITLE:

SOIL EROSION

SHEET NUMBER

S7

OF

12

LAND OWNER INFORMATION:

L&M INVESTORS #1 LLC

48155 WEST ROAD #1

WIXOM, MI 48393

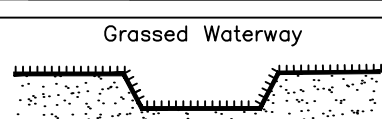
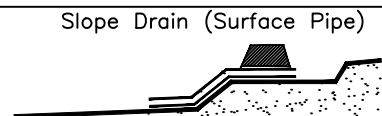
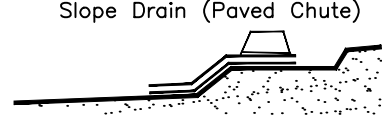
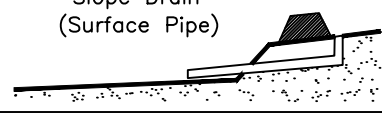
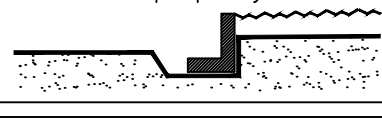
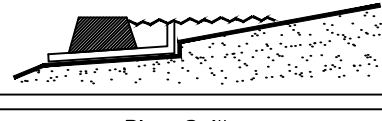
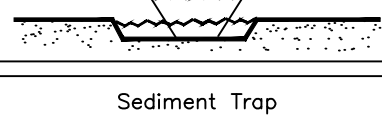
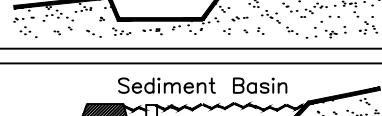
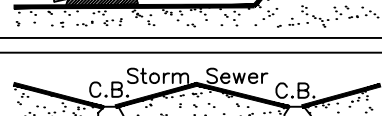
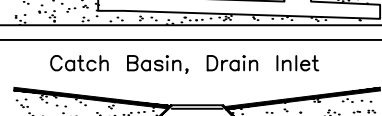
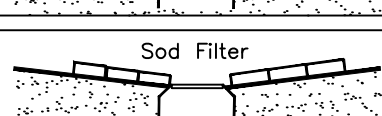
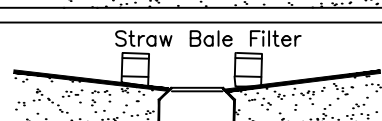
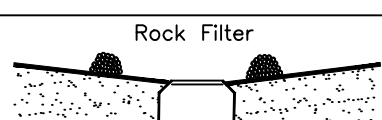
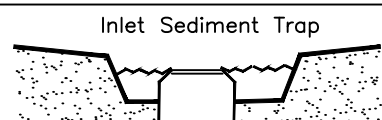
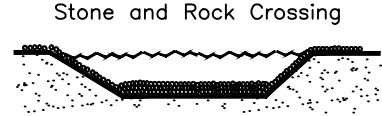
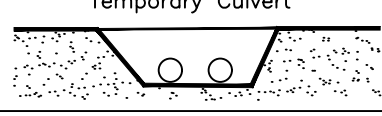
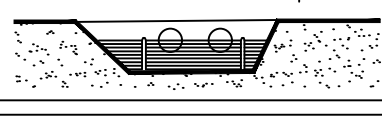
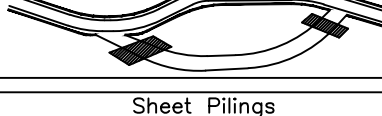
248-615-1111

ADDRESS:

4323 W VIENNA ROAD

CLIO, MICHIGAN 48420

KEY	DETAILS	CHARACTERISTICS							
			A	B	C	D	E	F	G
1	Stripping & Stockpiling Topsoil	Topsoil may be stockpiled above borrow area to act as diversion. Stockpile should be temporarily seeded.	*					*	*
2	Selective Grading & Stripping	Water can be diverted to minimize erosion. Flatter slopes ease erosion problems.	*					*	*
3	Grubbing Omitted	Saves cost of grubbing, provides new sprouts Retains existing root mat system, reduces wind fall at New forest edge. Discourages equipment entrance	*					*	*
4	Vegetative Stabilization	May utilize a variety of plant material. Stabilizes soil. Slows runoff velocity. Filters sediment from runoff.	*	*	*			*	*
5	Seeding	Inexpensive and very effective. Stabilizes soil, thus minimizing erosion. Permits runoff to infiltrate soil reducing runoff volume. Should include prepared topsoil bed.	*		*			*	*
6	Seeding with mulch and/or Matting	Facilitates establishment of vegetative cover. Effective for drainageways with low velocity. Easily placed in small quantities by inexperienced personnel. Should include prepared topsoil bed.	*		*			*	*
7	Hydro Seeding	Effective on large areas. Mulch tacking agent used to provide immediate protection until grass is rooted. Should include prepared topsoil bed.	*					*	*
8	Sodding	Provides immediate protection. Can be used on steep slopes where seed may be difficult to establish. Easy to place, may be repaired if damaged. Should include prepared topsoil bed.	*		*			*	*
9	Vegetative Buffer Strip	Slows runoff velocity. Filters sediment from runoff. Reduces volume of runoff on slopes.	*	*					*
10	Mulching	Used alone to protect exposed areas for short periods. Protects soil from impact of falling rain. Preserves soil moisture and protects germinating seed from temperature extremes.	*					*	*
11	Roughened Surface	Reduces velocity and increases infiltration rates. Collects sediment. Holds water, seed and mulch better than smooth surface.	*					*	
12	Compaction	Helps hold soil in place, making exposed areas less vulnerable to erosion.	*					*	
13	Riprap, Rubble Gabions	Used where vegetation is not easily established. Effective for high velocities of high concentrations. Permits runoff to infiltrate soil. Dissipates energy flow at system outlets.	*	*	*				
14	Aggregate Cover	Stabilizes soil surface, thus minimizing erosion. Permits construction traffic in adverse weather. May be used as part of permanent base construction of paved areas.						*	
15	Paving	Protects areas which cannot otherwise be protected, but increases runoff volume and velocity. Irregular surface will help slow velocity.	*					*	
16	Curb & Gutter	Keeps high velocity runoff on paved areas from leaving paved surface. Collects and conducts runoff to enclosed drainage system or prepared drainageway.						*	*
17	Benches	Reduces runoff velocity by reducing effective slope length. Collects sediment. Provides access to slopes for seeding, mulching and maintenance.	*						*
18	Diversion Berm	Diverts water from vulnerable areas. Collects and directs water to prepared drainageways. May be placed as part of normal construction operation.	*						*
19	Diversion Ditch	Collects and diverts water to reduce erosion potential May be incorporated in project permanent drainage	*						*
20	Berm & Ditch	Diverts water to prepared drainageway. May be used at intervals across slope face to reduce effective slope length.	*						*
21	Filter Berm	Constructed of gravel or stone. Intercepts and diverts runoff to stabilized areas or prepared drainage systems. Slows runoff and collects sediment.	*	*					*
22	Bush Filter	Uses slash and logs from clearing operations. Can be covered and seeded rather than removed. Eliminates need for burying or removal of material from site.							*
23	Bare Channel	Least expensive form of drainage. May be used only where gradient is very low and with soils of minimum erosion potential.			*				

KEY	DETAILS	CHARACTERISTICS	SLOPE STABILIZATION TECHNIQUES						
			A	B	C	D	E	F	G
24		Much more stable form of drainageway than bare channel Grass tends to slow runoff and filter out sediment. Used where bare channel would be eroded.		*					
25		Prevents erosion on slopes when runoff cannot be diverted to edge of slope area Usually temporary Can be constructed or extended as grading progresses	*						
26		Prevents erosion on slopes when runoff cannot be diverted to edge of slope area Usually permanent Can be constructed or extended as grading progresses	*						
27		Prevents erosion on slopes when runoff cannot be diverted to edge of slope area. Usually permanent. Can be constructed or extended as grading progresses.	*						
28		Slows velocity of flow, reduces erosive capacity.		*	*				
29		Reduces runoff velocity. Removes sediment and turbidity. Can be designed to handle large volumes of flow.			*				
30		Removes sediment and turbidity from runoff. May be part of permanent control plan.			*				
31		Slows runoff velocity to non-erosive level. Permits sediment collection from runoff.	*		*	*			
32		Converts collected channel or pipe flow back to sheet flow. Avoids channel easements and construction off project site. Simple to construct.			*				
33		May be constructed of variety of materials. Traps sediment and reduces velocity of flow. Can be cleaned and expanded as needed.		*	*				
34		Traps sediment. Releases runoff at non-erosive rates. Controls runoff at system outlets. Can be visual amenities.		*	*	*			
35		System removes collected runoff from site, particularly from paved areas. Can accept large concentrations of runoff. Conducts runoff to municipal sewer system or stabilized location. Uses catch basins to collect sediment.					*		*
36		Collects high velocity concentrated runoff. May use filter cloth over inlet. May use filter cloth and stone.					*		*
37		Inexpensive and easy to construct. Provides immediate protection. Protects areas around inlets from erosion.				*			
38		Inexpensive and easy to construct. Can be located as necessary to collect sediment. May be used in conjunction with snow fence for added stability.				*			*
39		Can utilize material found on site. Easy to construct. Filters sediment from runoff.				*			*
40		Easy to shape Collects sediment May be cleaned and expanded as needed.				*			
41		May be rock or clean rubble. Minimizes stream turbidity. Inexpensive. May also serve as ditch check or sediment trap.		*					
42		Eliminates stream turbulence and turbidity. Provides unobstructed passage for fish and other water life. Capacity for normal flow can be provided with storm water flowing over roadway.		*					
43		Easy to install at inlet. Keeps culvert clean and free flowing. May be constructed of lumber or logs.		*					*
44		Deflects currents away from streambank areas.		*					
45		New channel keeps normal flows away from construction. Requires State Permit.		*					
46		Protects erodible bank areas from stream currents during construction. Minimal disruption when removed.		*					

		SLOPES		STREAMS AND WATERWAYS		SURFACE DRAINAGE		ENCLOSED DRAINAGE (Inlet & Outfall Control)		LARGE FLAT SURFACE AREAS		BORROW AND STOCKPILE AREAS		ADJACENT PROPERTIES	
KEY	DETAILS	CHARACTERISTICS	A	B	C	D	E	F	G	H	I	J	K	L	M
47	Cofferdam	Work can be continued during most anticipated stream conditions. Clear water can be pumped directly back into stream.		*											
48	Construction Dam	Permits work to continue during normal stream stages. Controlled flooding can be accomplished during periods of inactivity.		*											
49	Check Dams	Reduces flow velocity. Catches sediment. Can be constructed of logs, straw, hay, rock, lumber, masonry or sand bags.		*	*										
50	Weir	Controls sedimentation in large streams. Causes minimal turbidity.		*	*										
51	Retaining Wall	Reduces gradient where slopes are extremely steep. Permits retention of existing vegetation, keeping soil stable in critical areas. Minimal maintenance.	*												*
52	Seepage Control	Prevents piping and soil slippage on cut slopes.	*												*
53	Windbreak	Minimizes wind erosion. May be a snow fence.							*						
54	Silt Fence	Geotextile fabric and posts and/or poles. Easy to construct and locate as necessary.	*		*				*					*	

[illegible]

- SOIL EROSION & SEDIMENTATION CONTROL PERMIT
1. DEVELOPER/PROPERTY OWNER SHALL SUBMIT A DETAILED EROSION CONTROL PLAN AND OBTAIN A SOIL EROSION & SEDIMENTATION CONTROL PERMIT PRIOR TO ANY EARTH CHANGES.
 2. CONSTRUCTION OPERATIONS SHALL BE SCHEDULED AND PERFORMED SO THAT PREVENTATIVE EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO EXCAVATION AND TEMPORARY STABILIZATION MEASURES ARE IN PLACE IMMEDIATELY FOLLOWING BACKFILLING AND/OR GRADING OPERATIONS.
 3. BORROW AND FILL DISPOSAL AREAS WILL BE SELECTED AND APPROVED AT TIME OF PLAN REVIEW.
 4. SPECIAL PRECAUTIONS SHALL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT SITUATIONS THAT PROMOTE EROSION.
 5. CLEANUP WILL BE DONE IN A MANNER TO INSURE THAT EROSION CONTROL MEASURES ARE NOT DISTURBED.
 6. THE PROJECT WILL CONTINUALLY BE INSPECTED FOR SOIL EROSION AND SEDIMENT CONTROL COMPLIANCE. DEFICIENCIES WILL BE CORRECTED BY THE DEVELOPER WITHIN 24 HOURS.
 7. EXCESSIVE EROSION AND SEDIMENTATION SHALL BE IMMEDIATELY REMOVED BY THE DEVELOPER.
 8. VEGETATION ESTABLISHMENT OF PERMANENT CONTROL MEASURES.

- CONSTRUCTION SEQUENCE
1. EXCAVATION AND STOCKPILING OF SOIL.
 2. IMPLEMENTATION OF TEMPORARY EROSION CONTROL MEASURES; SELECTIVE GRADING, DIVERSIONS AS REQUIRED IN FIELD, PROTECTION OF STORM SEWER FACILITIES.
 3. PERIODIC MAINTENANCE OF AFFECTED EROSION CONTROL MEASURES.
 4. PERMANENT MEASURES; FINAL GRADING, SEEDING AND MULCHING.
- SEE UNIFIED KEYING SYSTEM FOR EROSION CONTROL KEY NUMBERS.

DNR STREAM CROSSING NOTES

CONSTRUCTION OF STREAM CROSSINGS SHALL BE SUBJECT TO THE SPECIFICATIONS FOR PROTECTION OF NATURAL RESOURCES AT UTILITY CROSSINGS AS GIVEN IN THE ADMINISTRATIVE RULES FOR ACT 346 (RULES 26.01 THROUGH 29.01).

A SITUATION BARRIER SHALL BE CONSTRUCTED IMMEDIATELY DOWNSTREAM OF THE CONSTRUCTION SITE PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. (SEE MICHIGAN UNIFIED KEYING SYSTEM FOR SPECIFIED BARRIER TYPES). THE BARRIER SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD DURATION OF THE PROJECT.

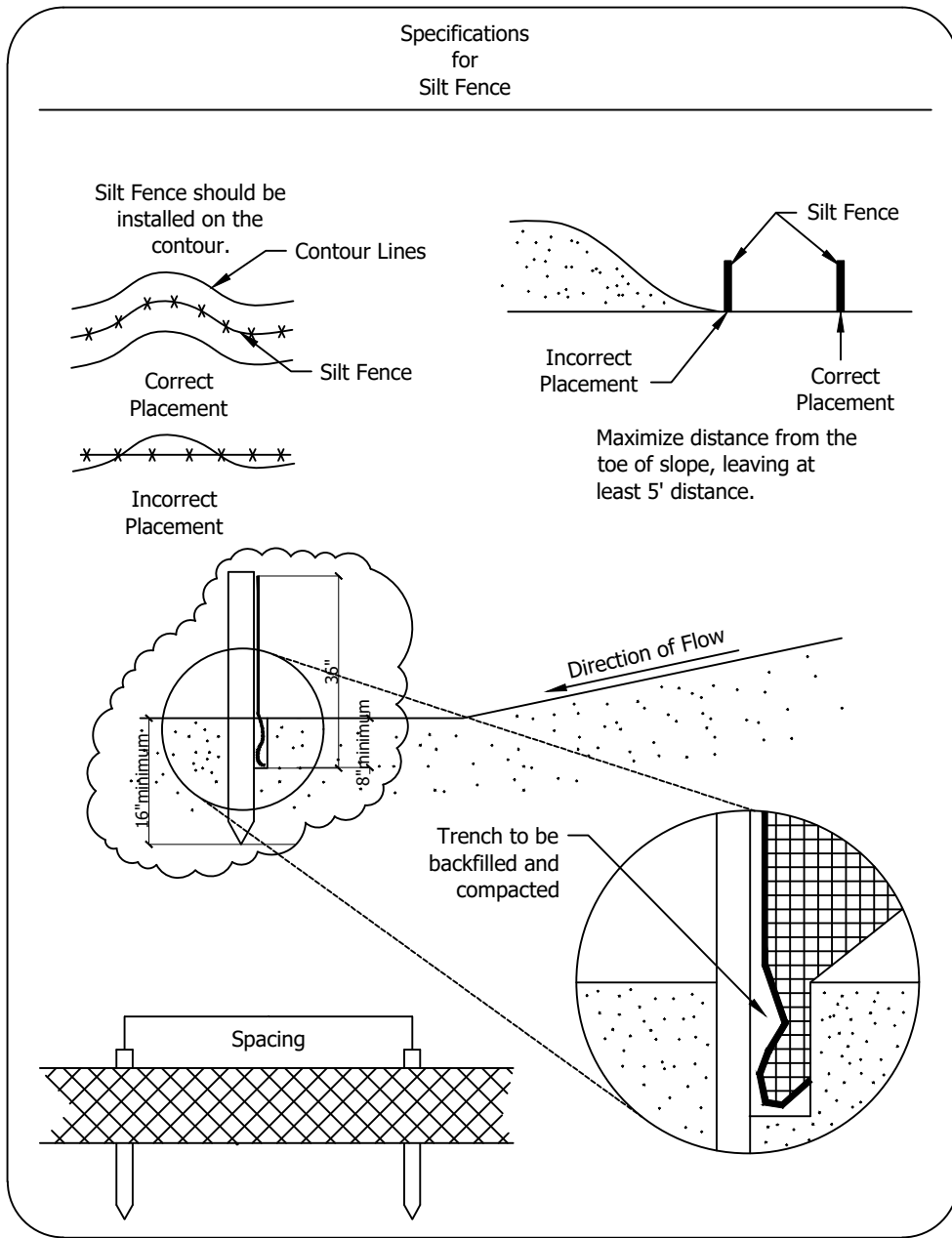
ALL MATERIALS SHALL CONTAIN NO INERT MATERIALS WHICH WILL NOT CAUSE SILTATION NOR CONTAIN SOLUBLE CHEMICALS OF ORGANIC MATTER WHICH IS BIODEGRADABLE. ALL FILL SHALL BE CONTAINED IN SUCH A MANNER SO AS NOT TO ERODE INTO ANY WATERCOURSE.

ALL RAW BANKS SHALL BE STABILIZED WITH VEGETATION TO THREE FEET ABOVE THE ORDINARY HIGH WATER MARK, THEN SEEDED, FERTILIZED AND MULCHED, OR SODDED TO PREVENT EROSION.

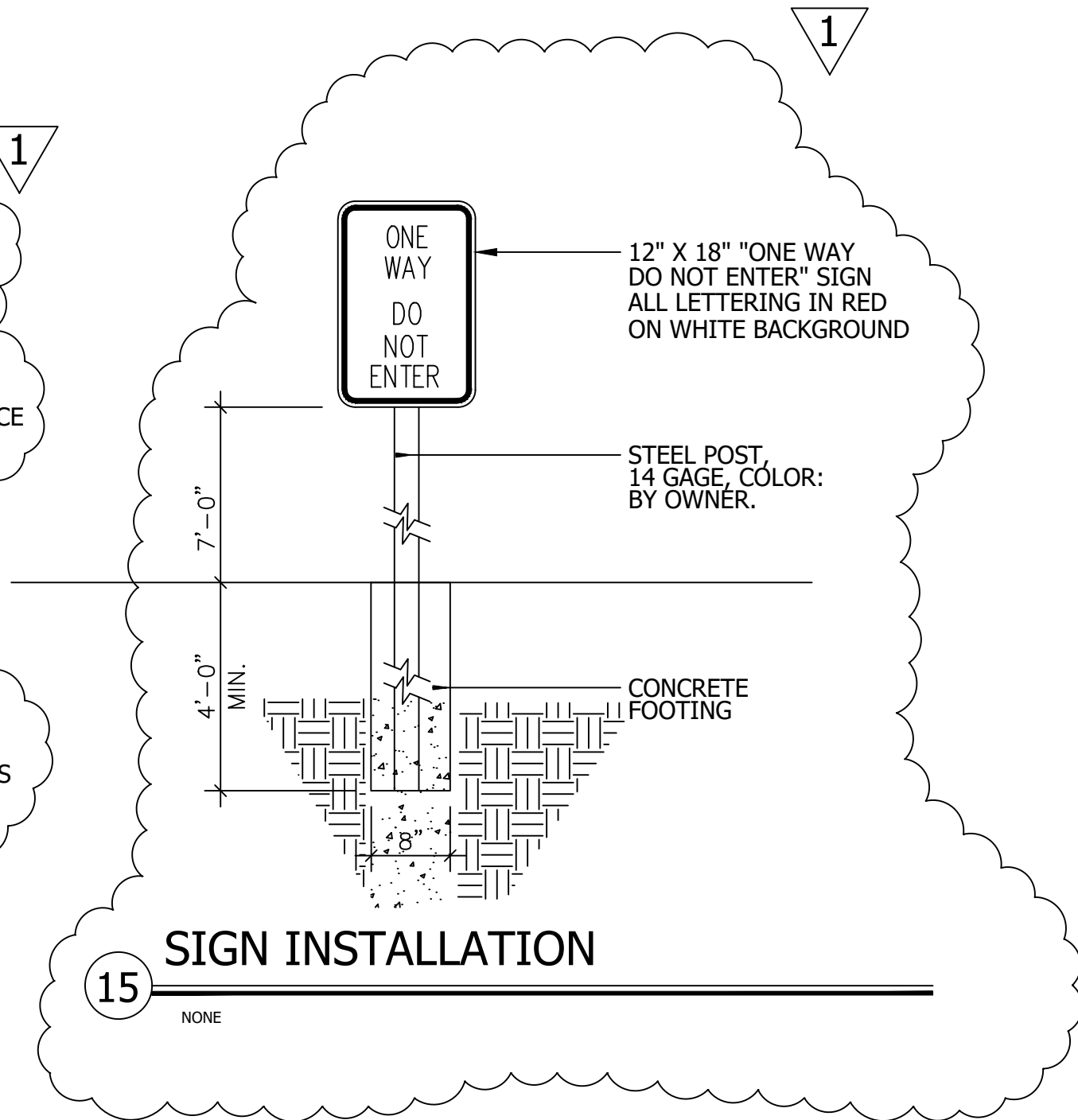
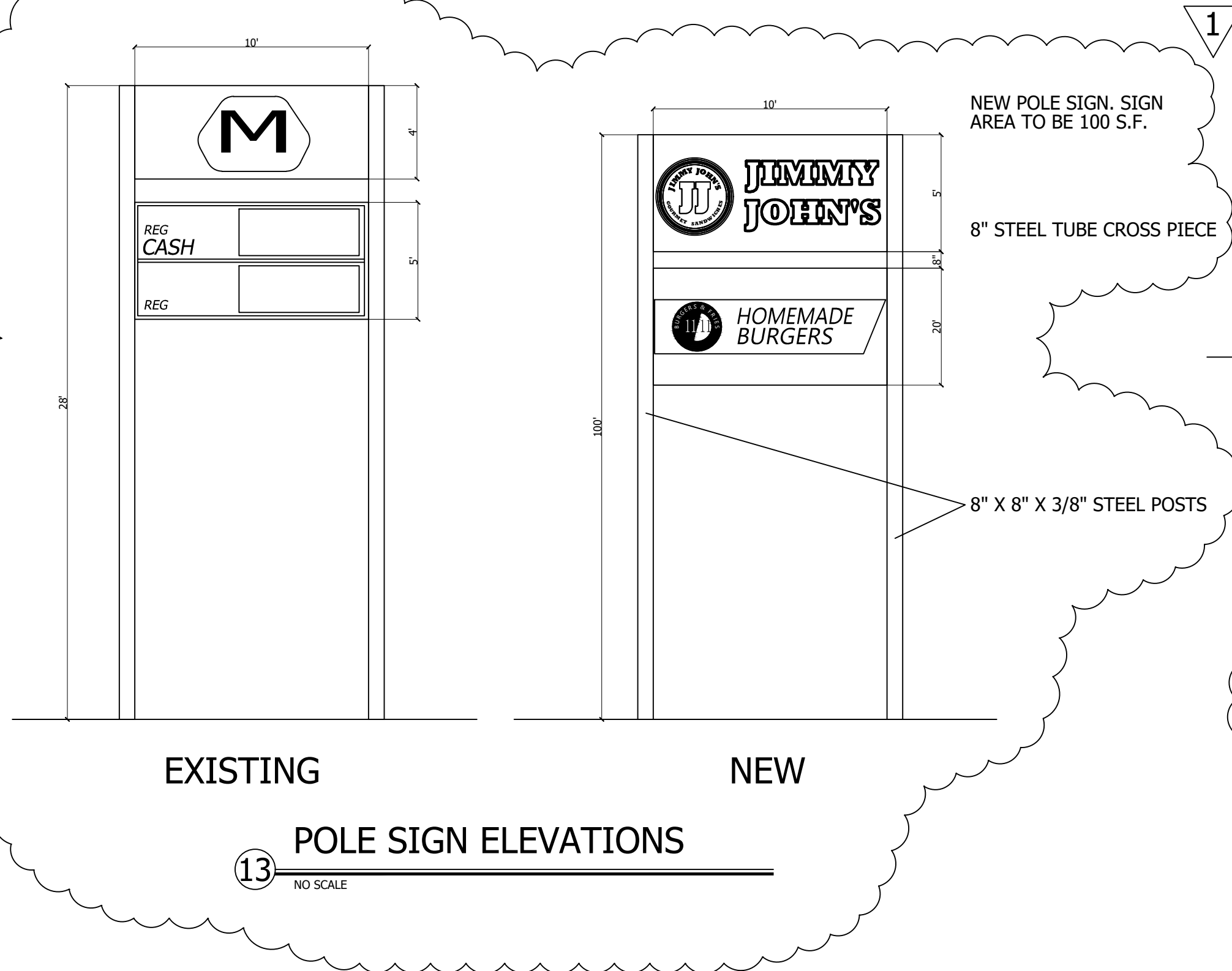
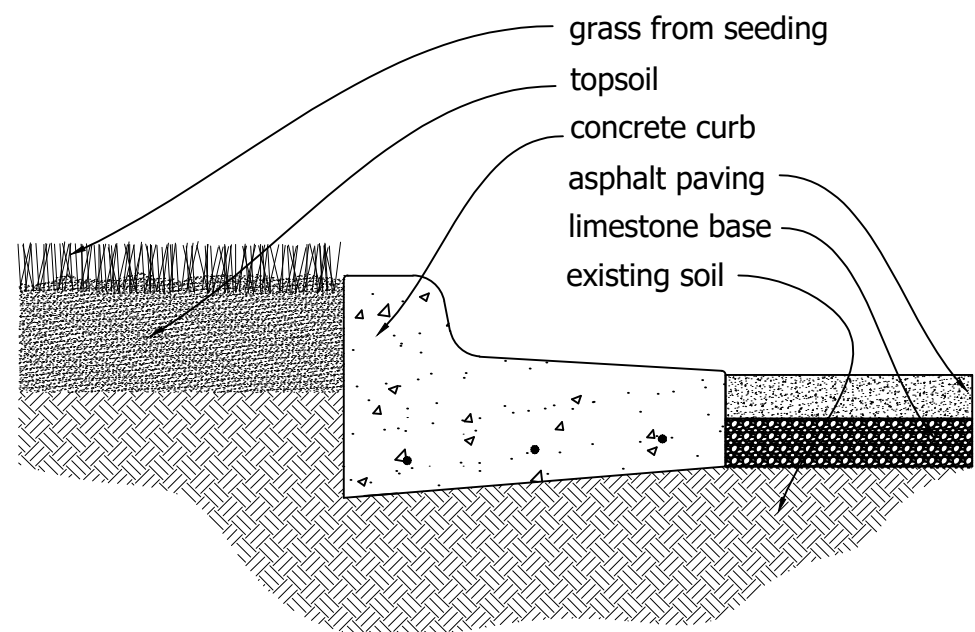
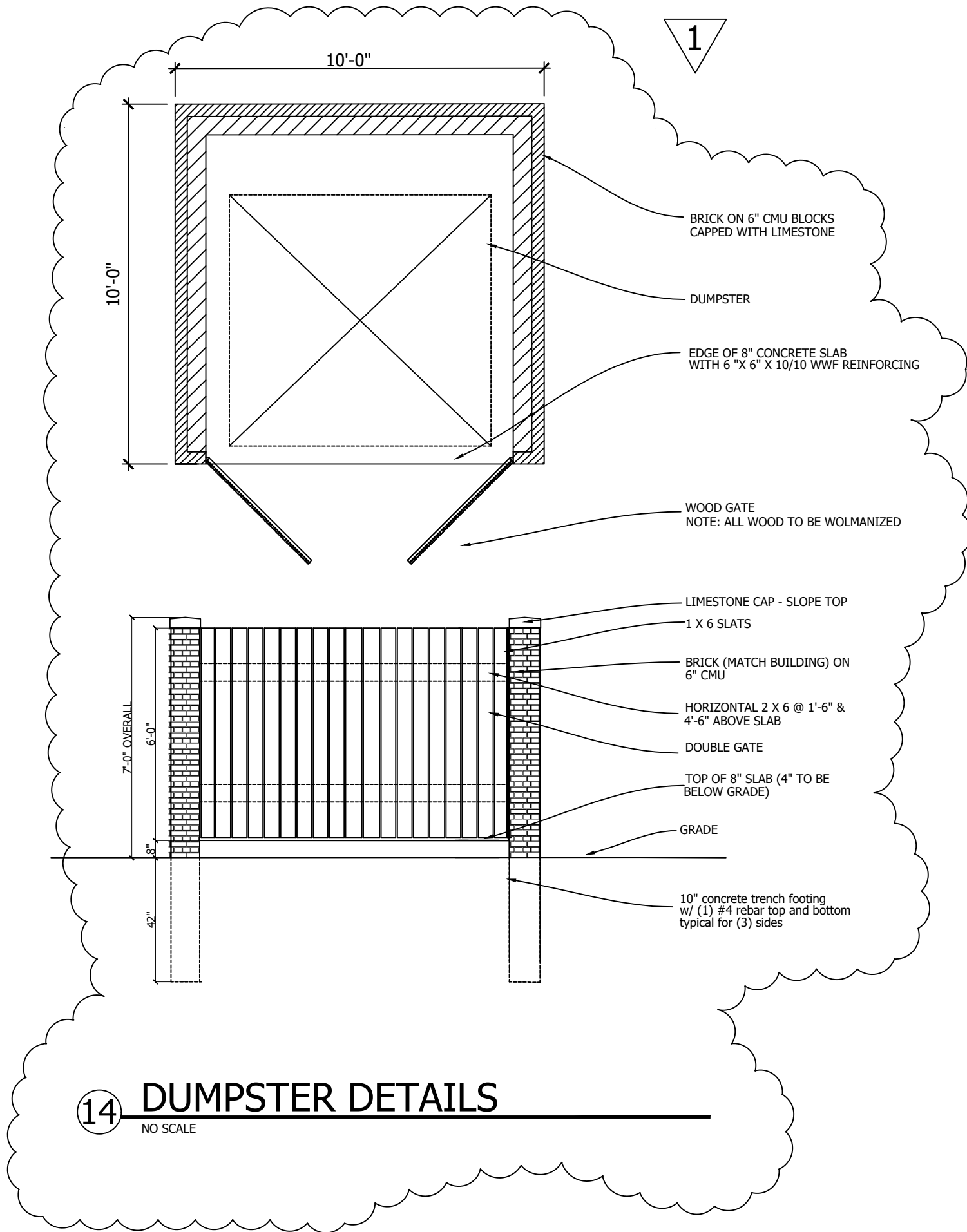
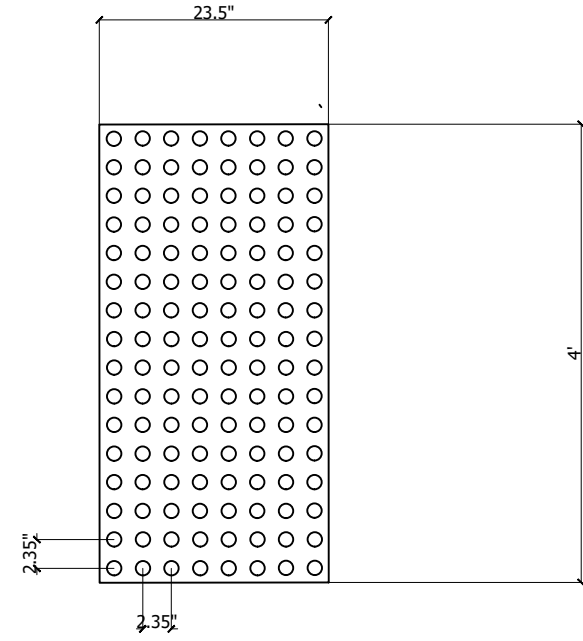
UPON PROJECT COMPLETION THE EXCESS SPOILS SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED UPLAND SITE.

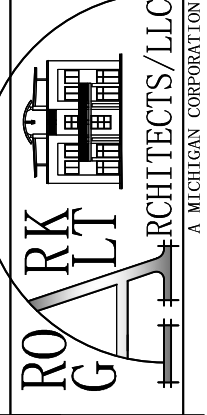
SITUATION BARRIER MAY BE REMOVED UPON PLACEMENT OF PERMANENT EROSION CONTROL MEASURES.

[illegible]



- Specifications for 36" Silt Fence
- Silt fence shall be constructed before upslope land disturbance begins.
 - 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 prevent water ponded by the silt fence from flowing around the ends, each end shall be constructed upslope so that the ends are at a higher elevation.
 - Where possible, silt fence shall be placed on the flattest area available.
 - Where possible, vegetation shall be preserved for 5 ft. (or as much as possible) upslope from the silt fence. If vegetation is removed, it shall be reestablished within 7 days from the installation of the silt fence.
 - The silt fence shall be placed in a trench cut a minimum of 6 in. deep. The trench shall be cut with a trencher, cable laying machine, or other suitable device which will ensure adequate uniform trench depth.
 - The silt fence shall be placed with the stakes on the downslope side of the geotextile and so that the 8 in. of cloth are below the ground surface. Excess material shall lay on the bottom of the 6-in. deep trench. The trench shall be backfilled and compacted.
 - Seams between sections of silt fence shall be overlapped with the end stakes of each section wrapped together before driving into the ground.
 - Maintenance - Silt fence shall allow runoff to pass only as diffuse flow through the geotextile. If runoff overtops the silt fence, flows under or around the ends, or in any other way becomes a concentrated flow, one 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.
- Criteria for Silt Fence Materials
- Fence Posts - The length shall be a minimum of 44 in. long. Wood posts will be cut with a trencher, cable laying machine, or other suitable device which will ensure adequate uniform trench depth. The maximum spacing between posts shall be 10 ft.
 - Silt Fence Fabric (See chart below)

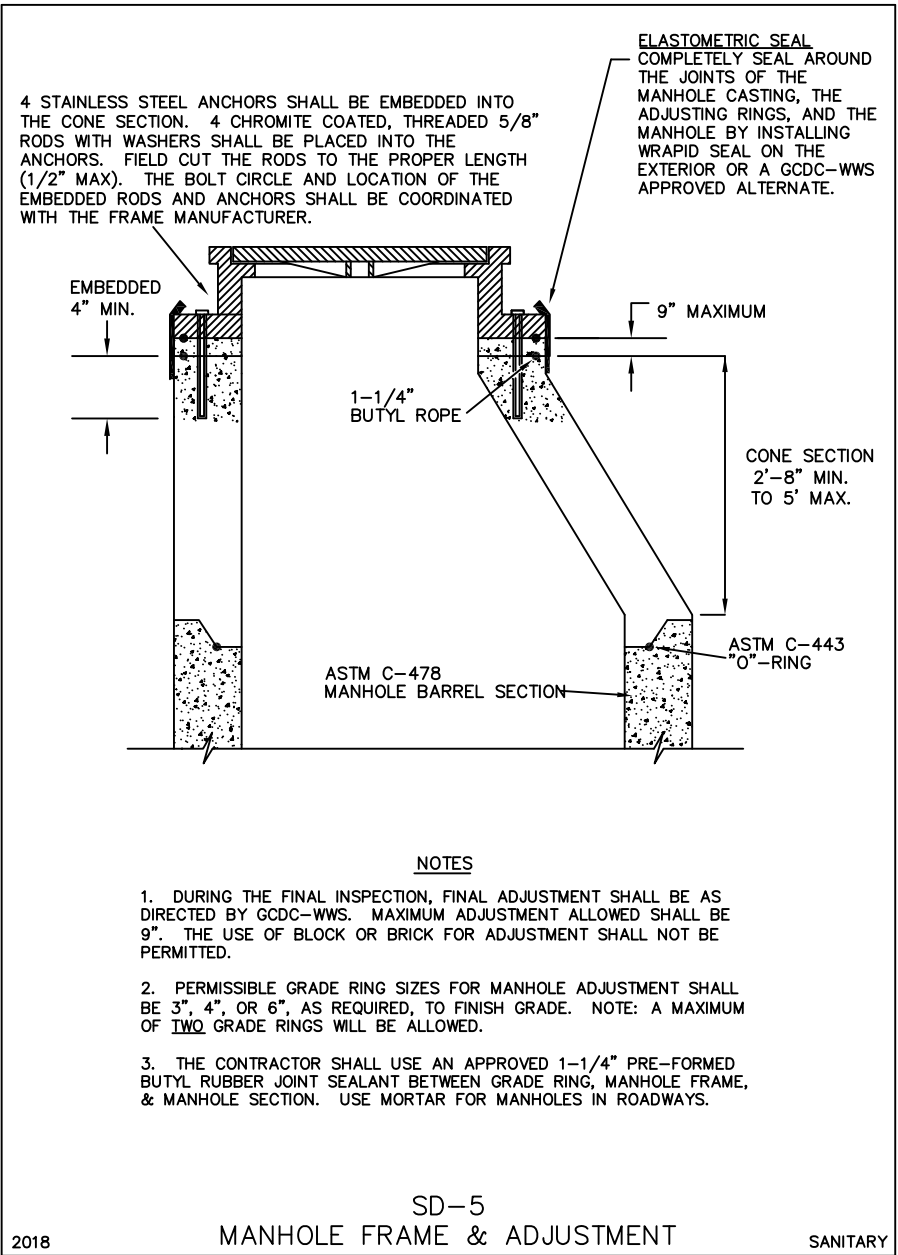
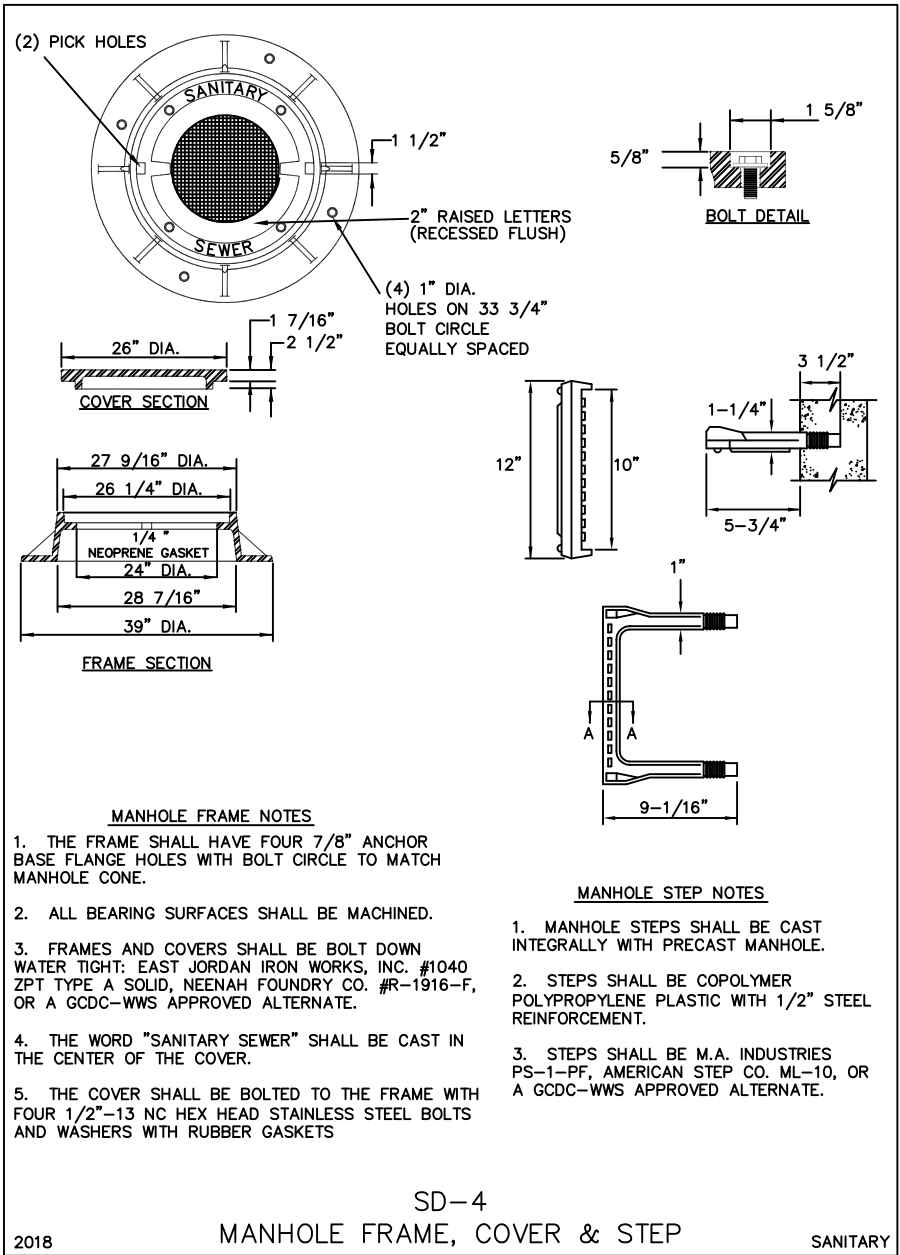
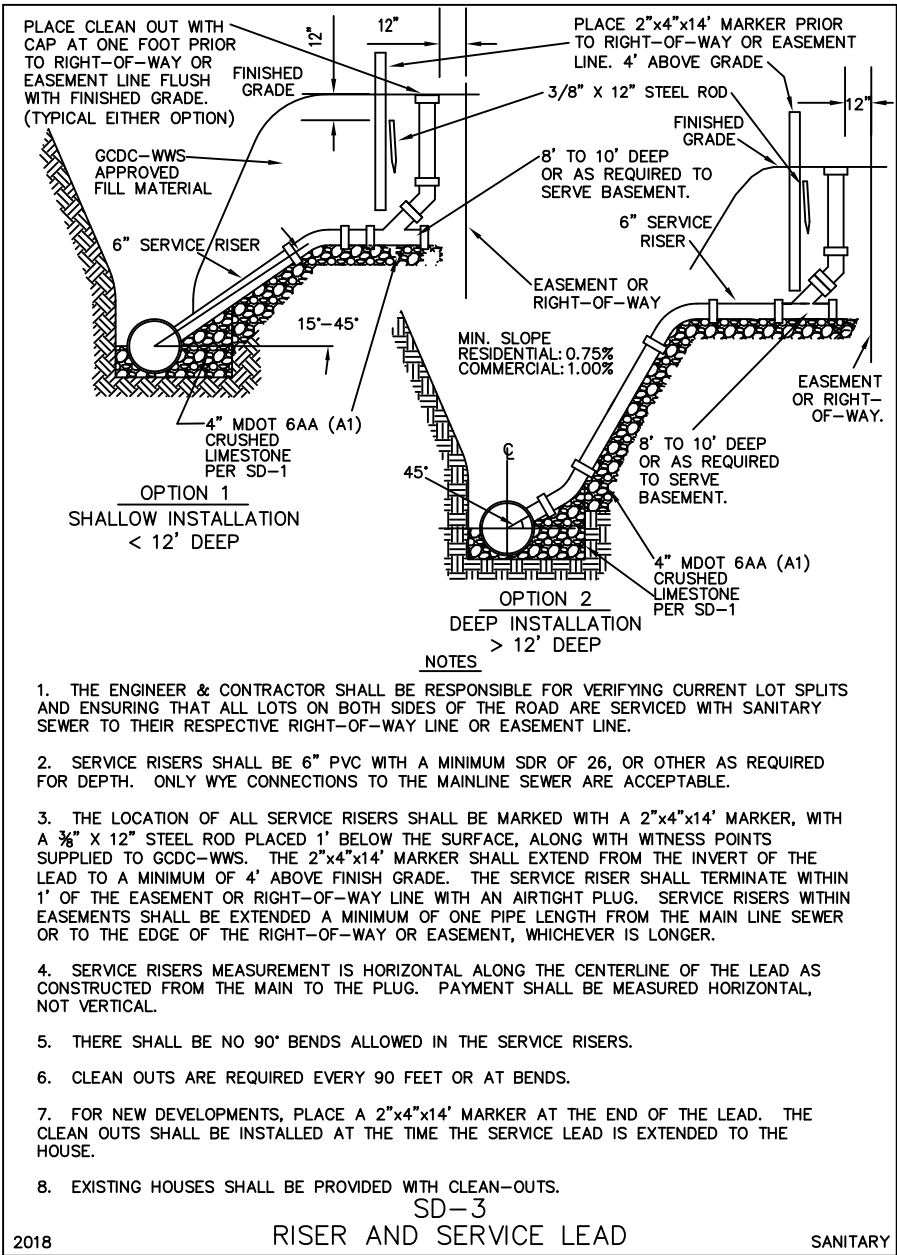
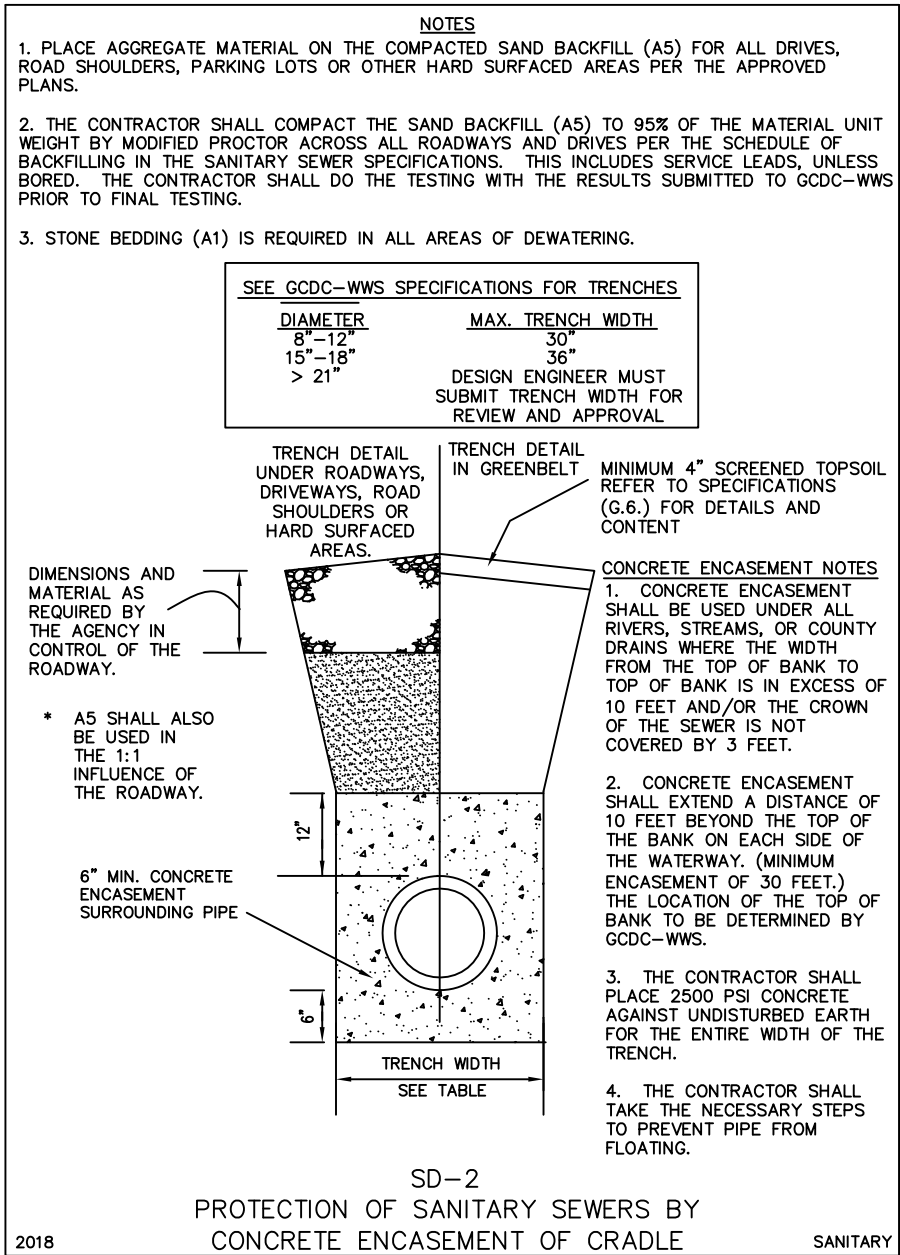
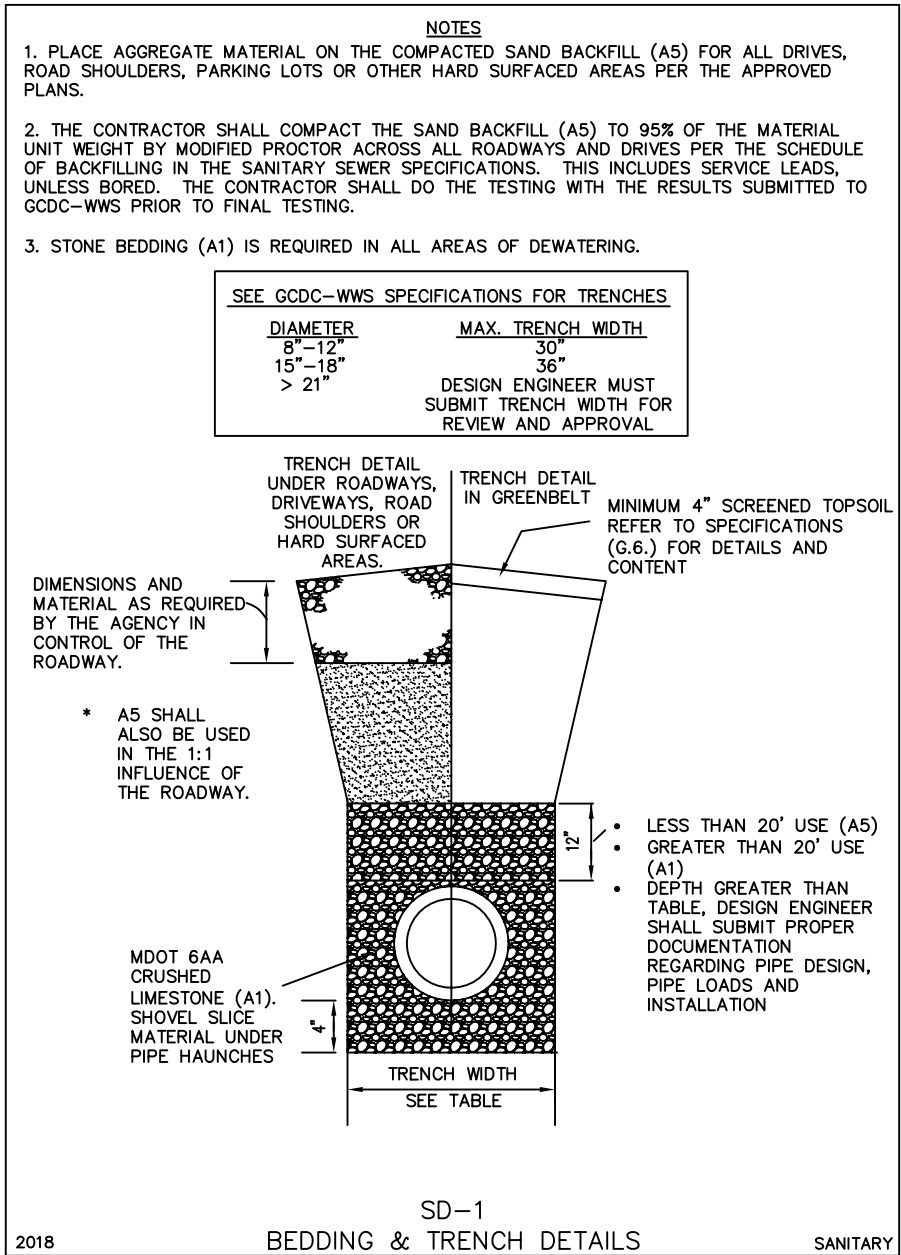


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REVISION 1	5.14.20
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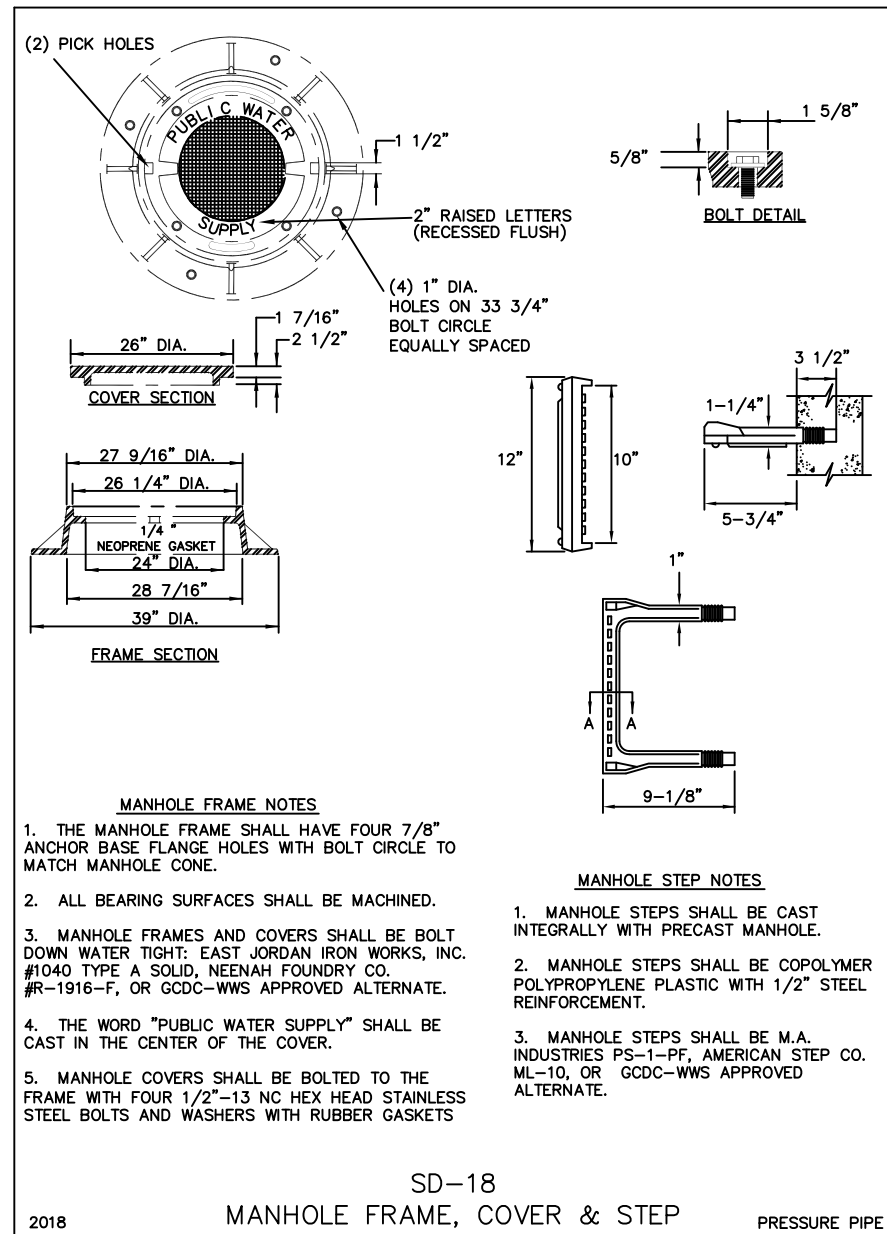
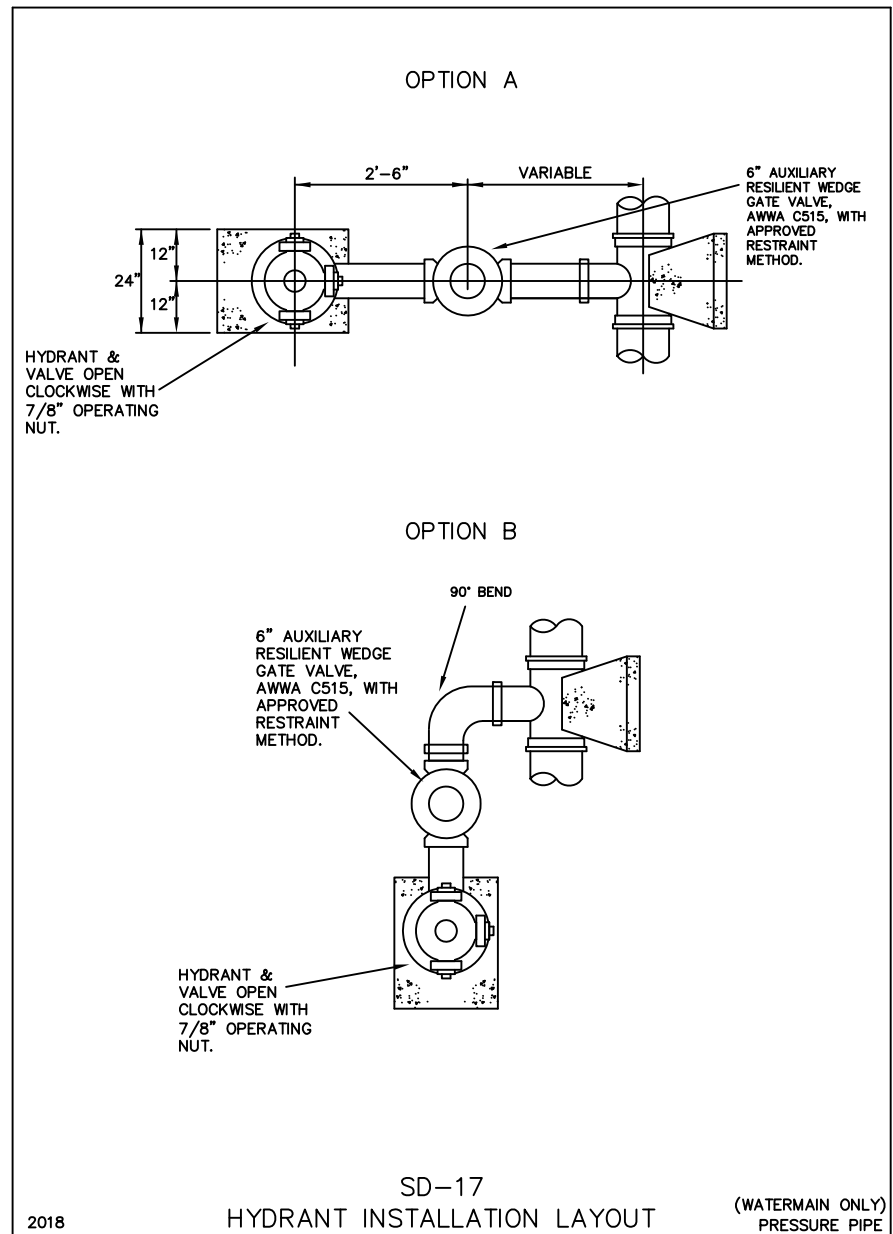
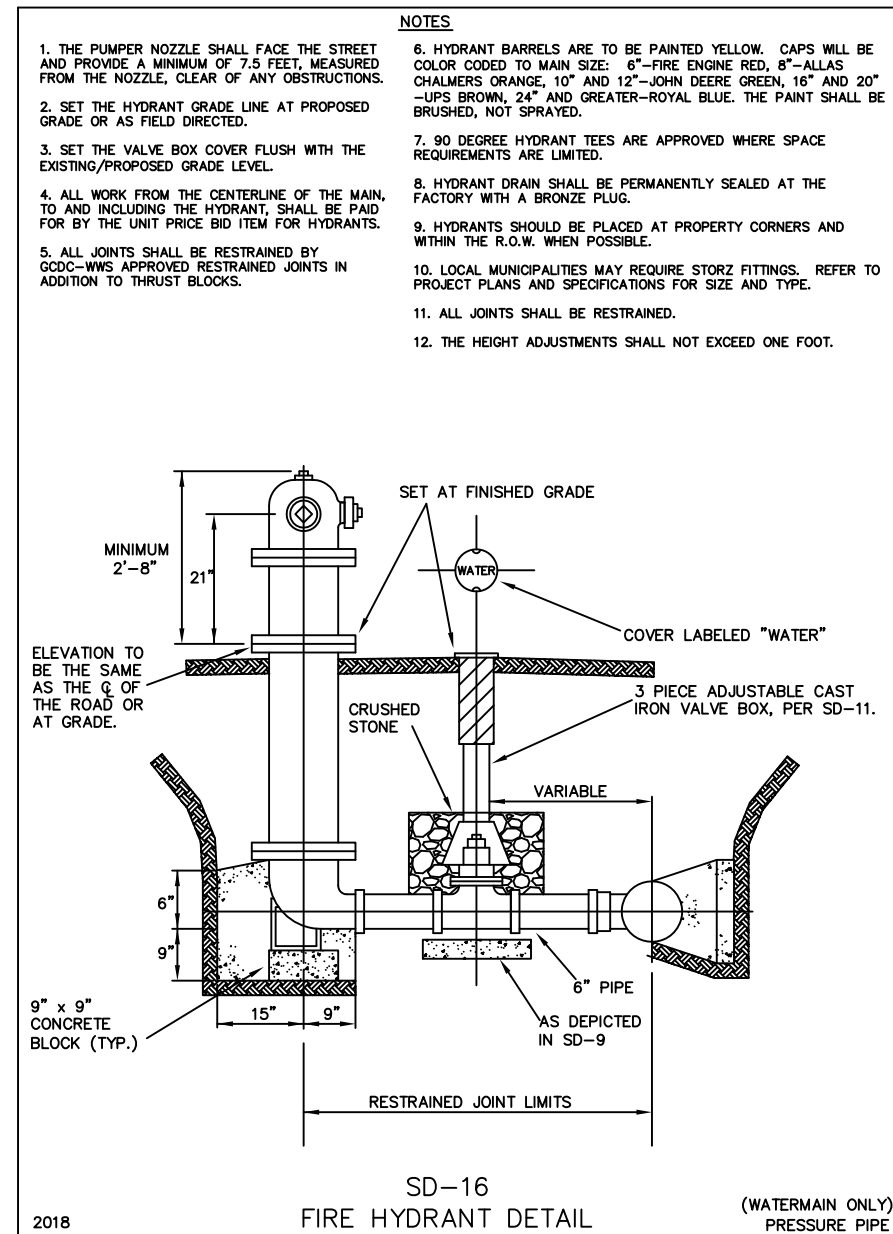
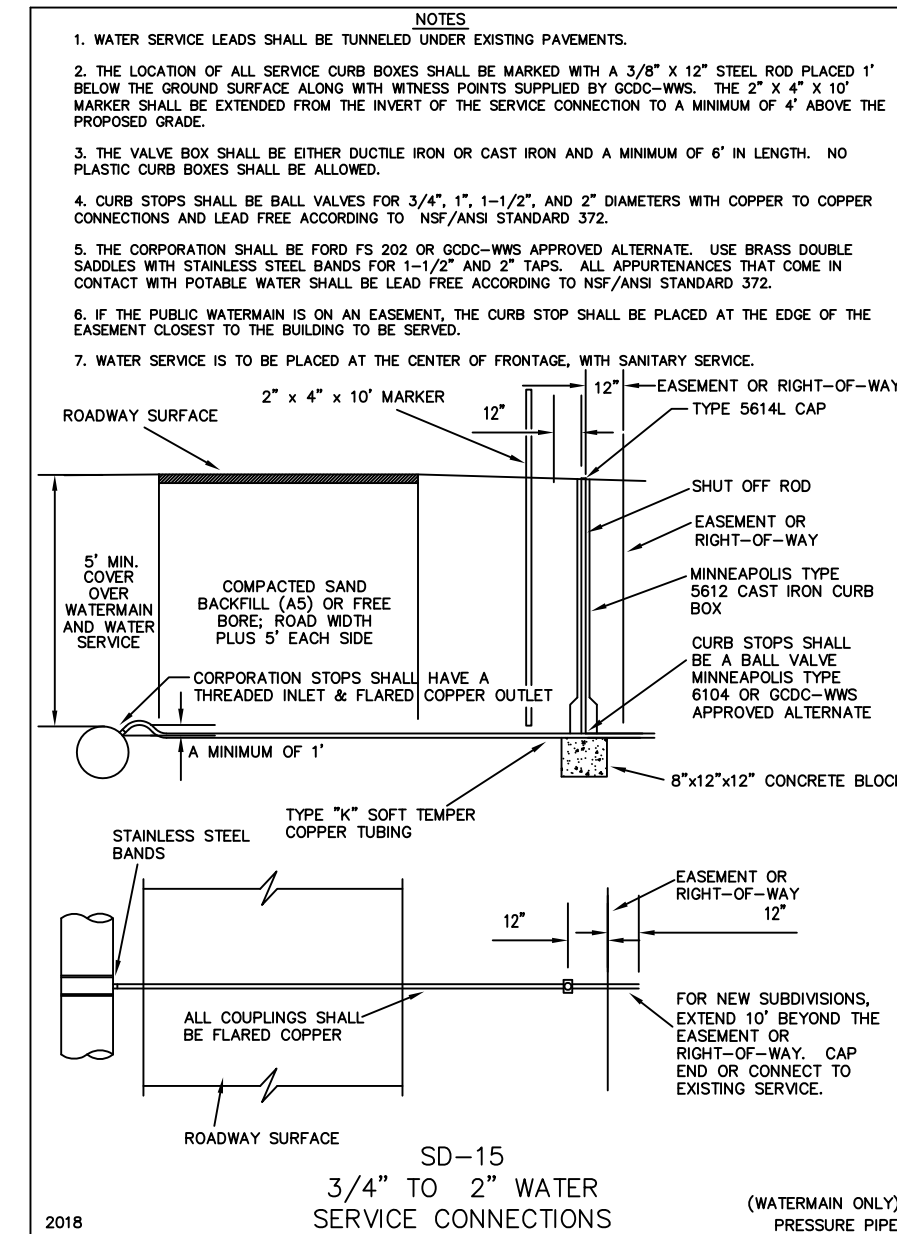
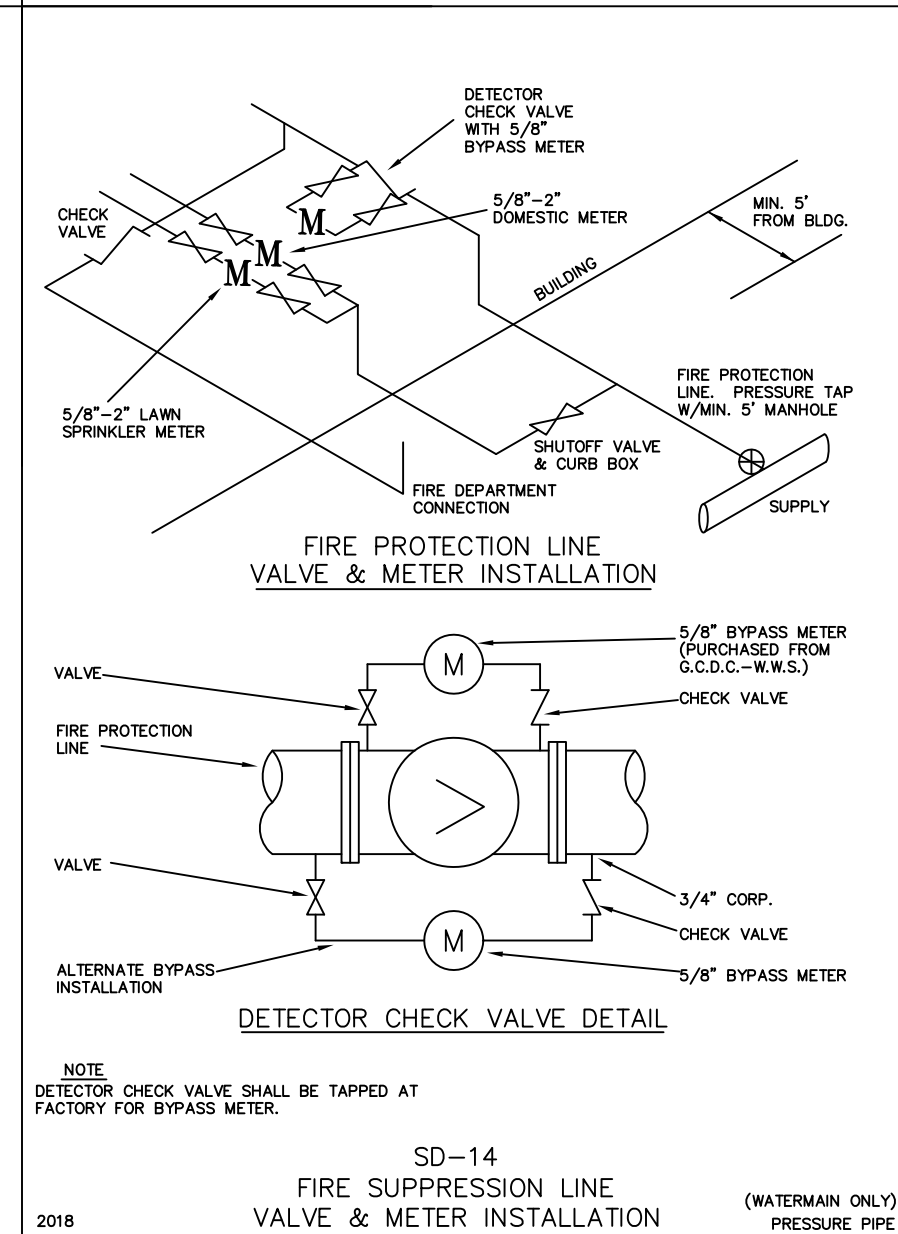
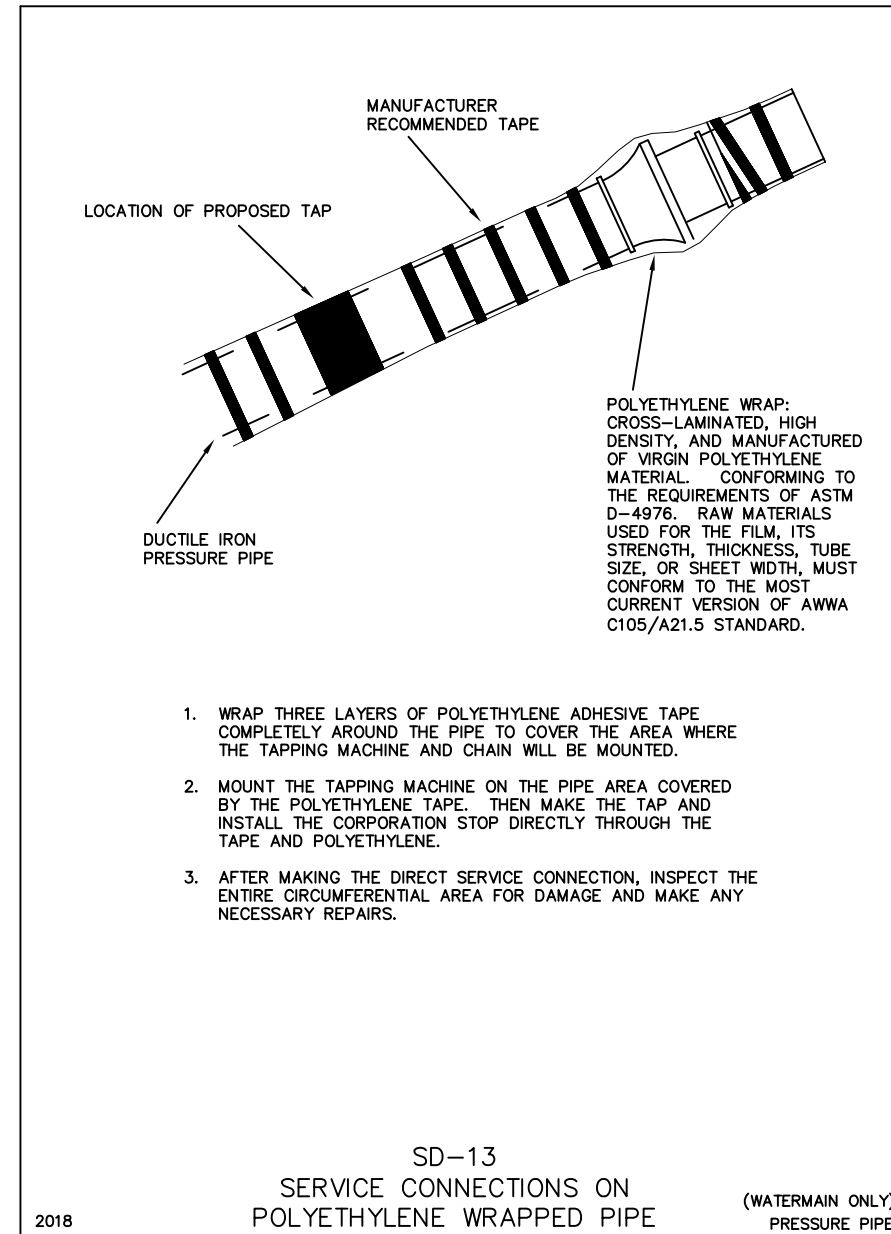
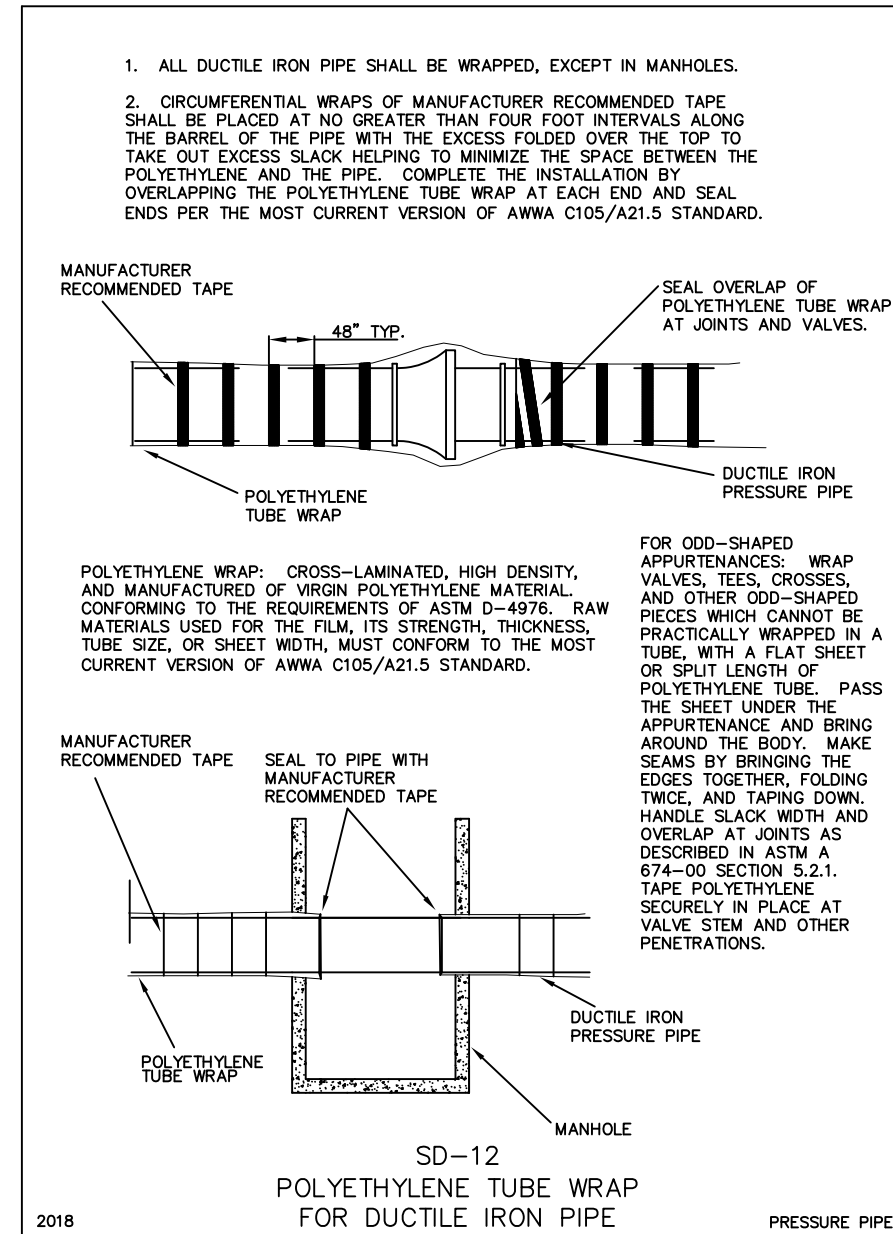
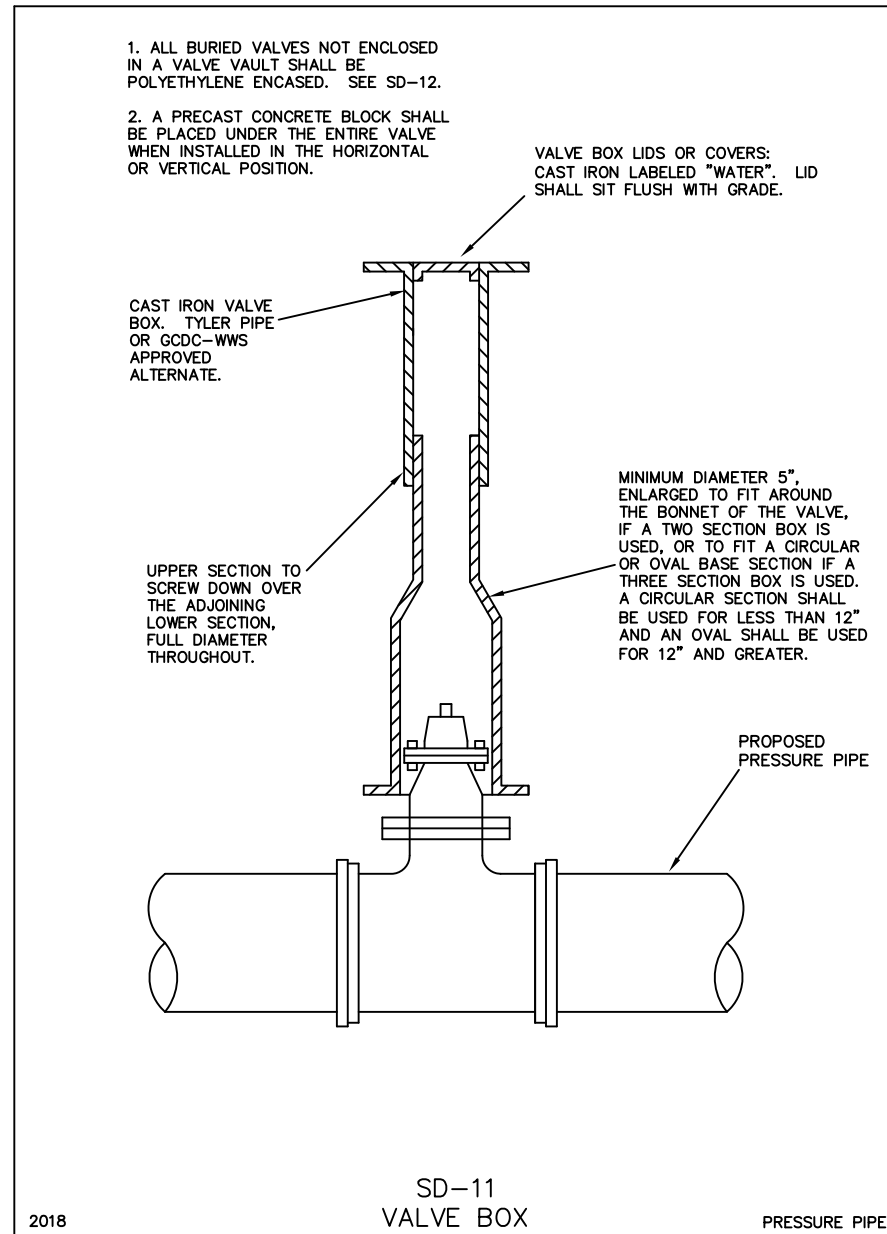
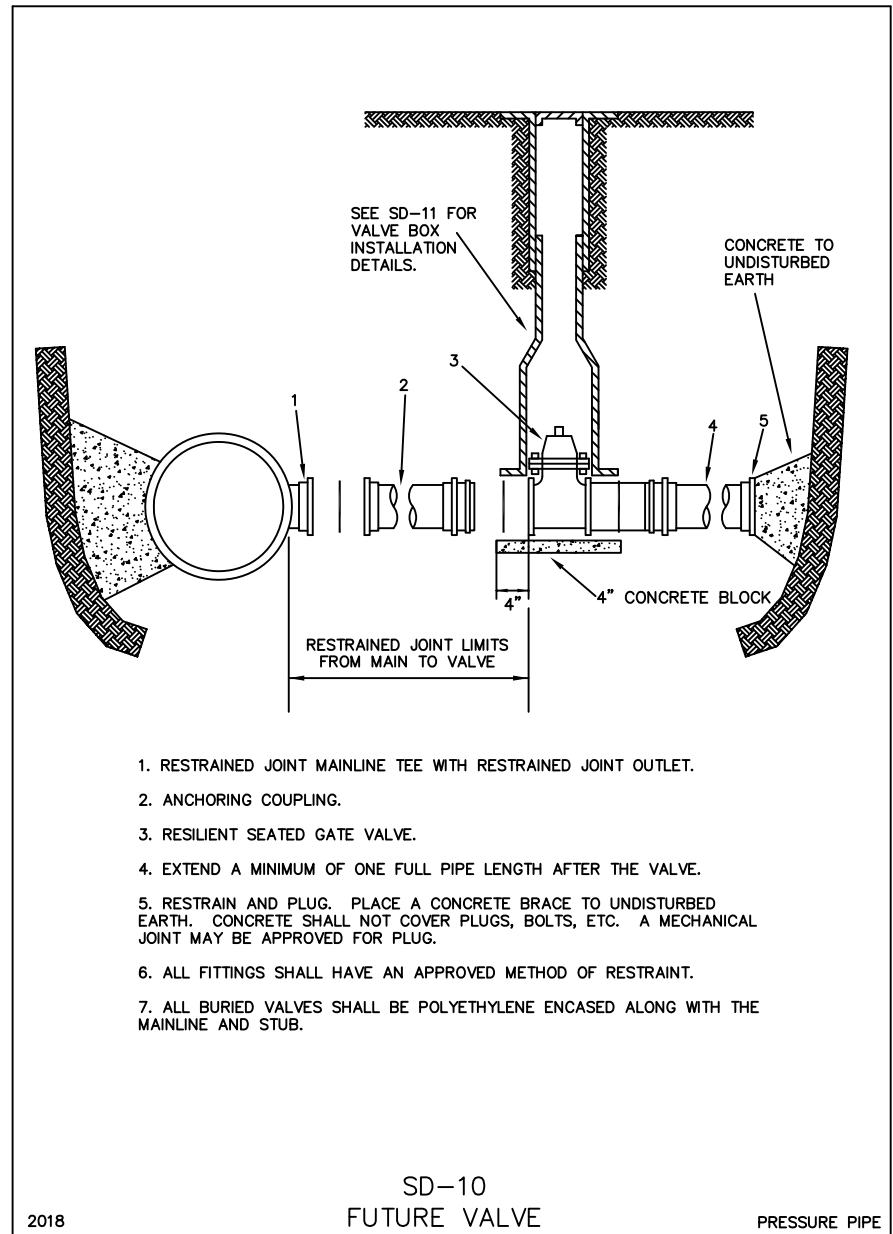
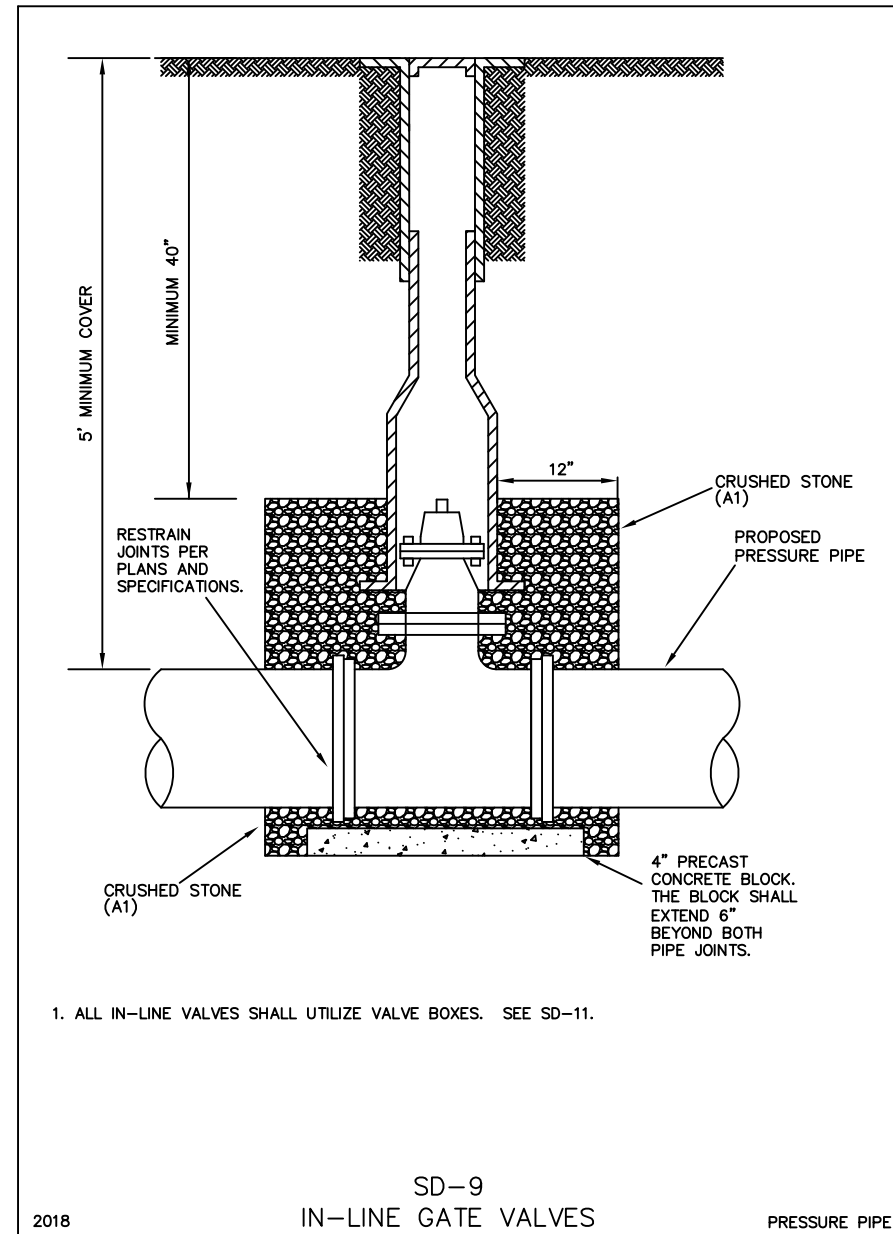
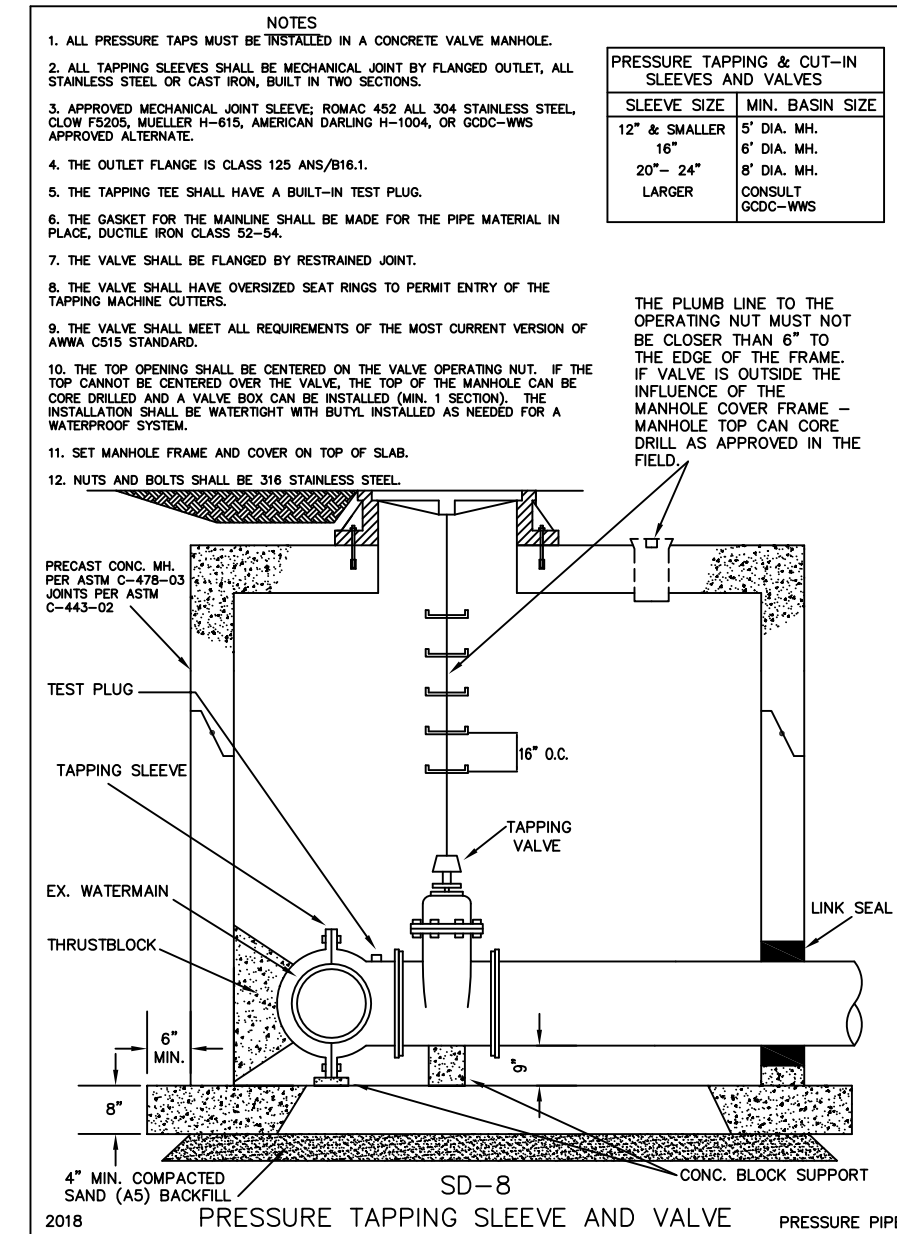
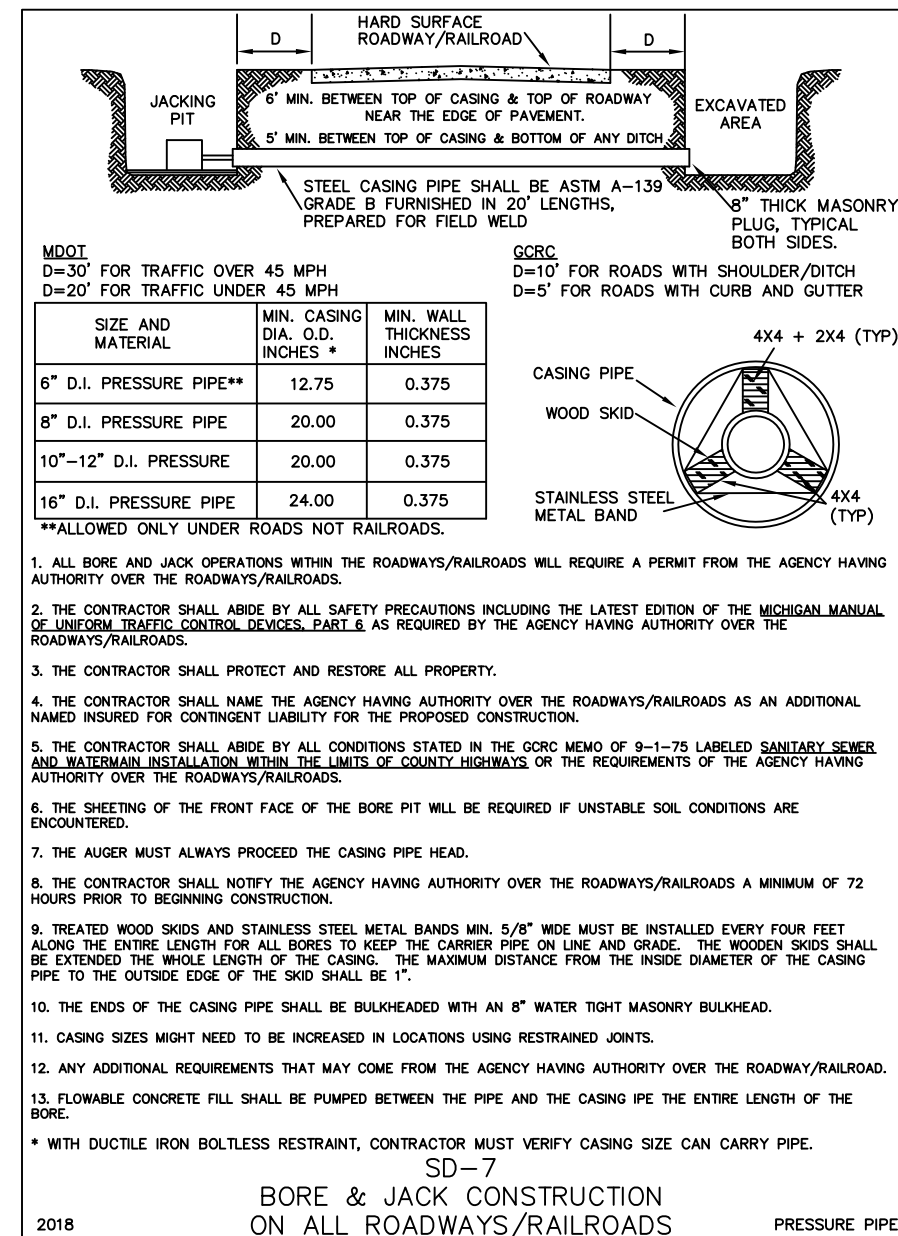
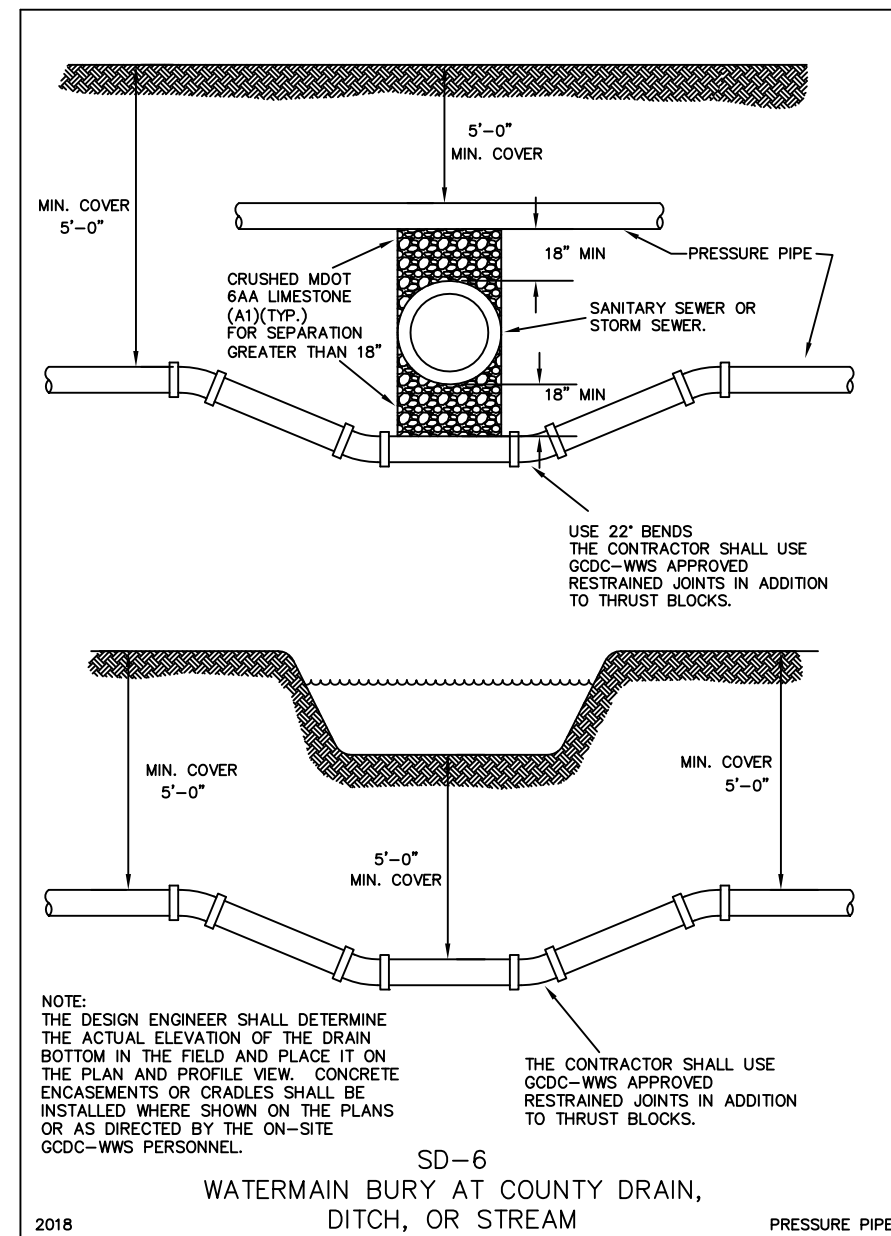
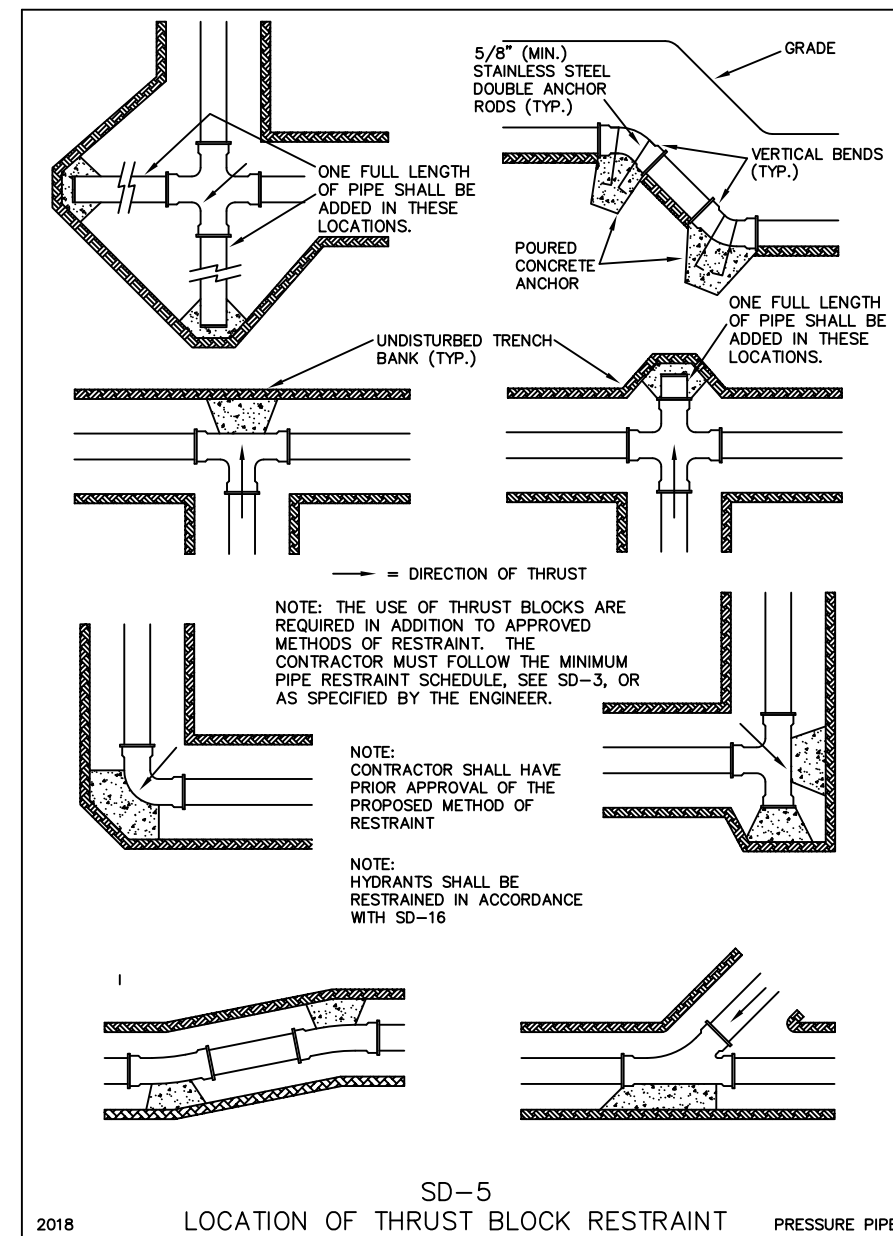
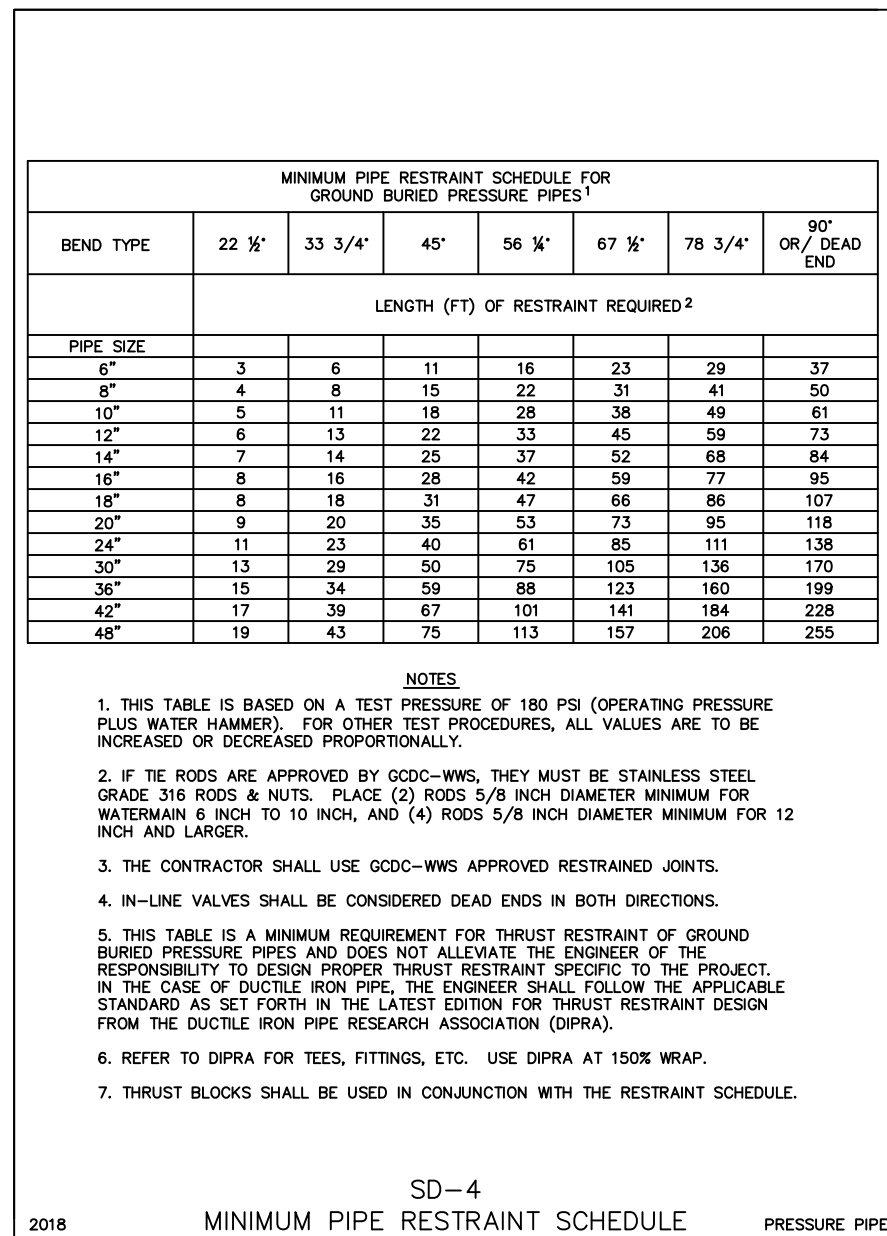
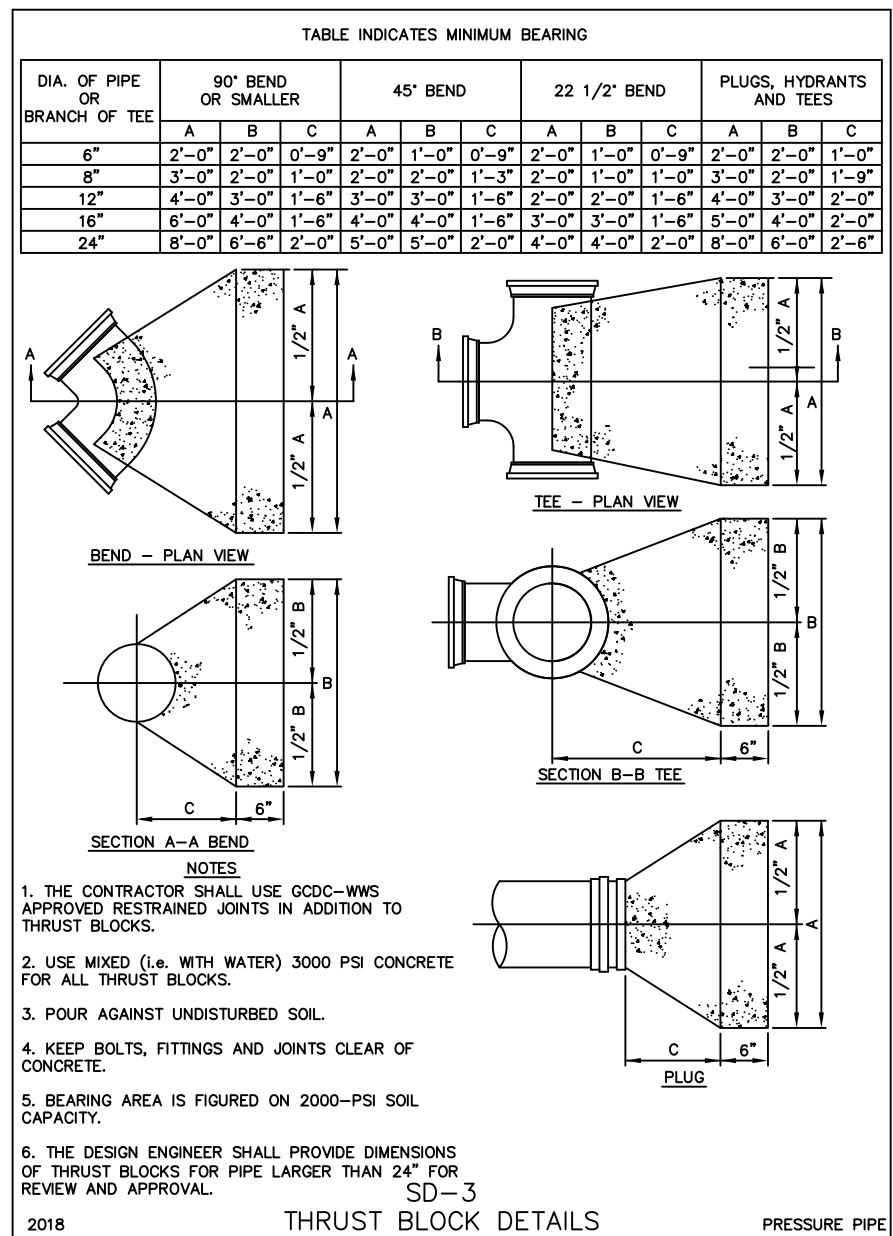
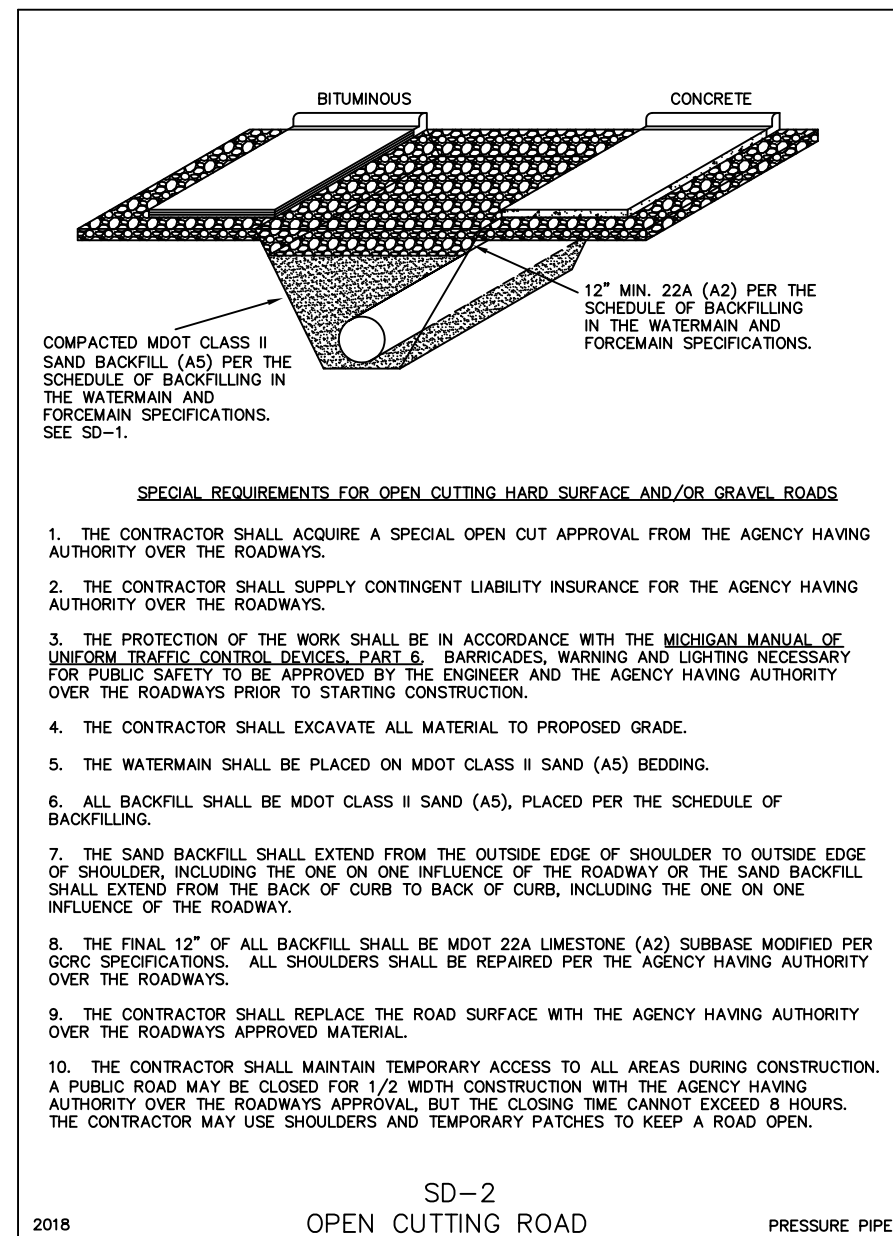
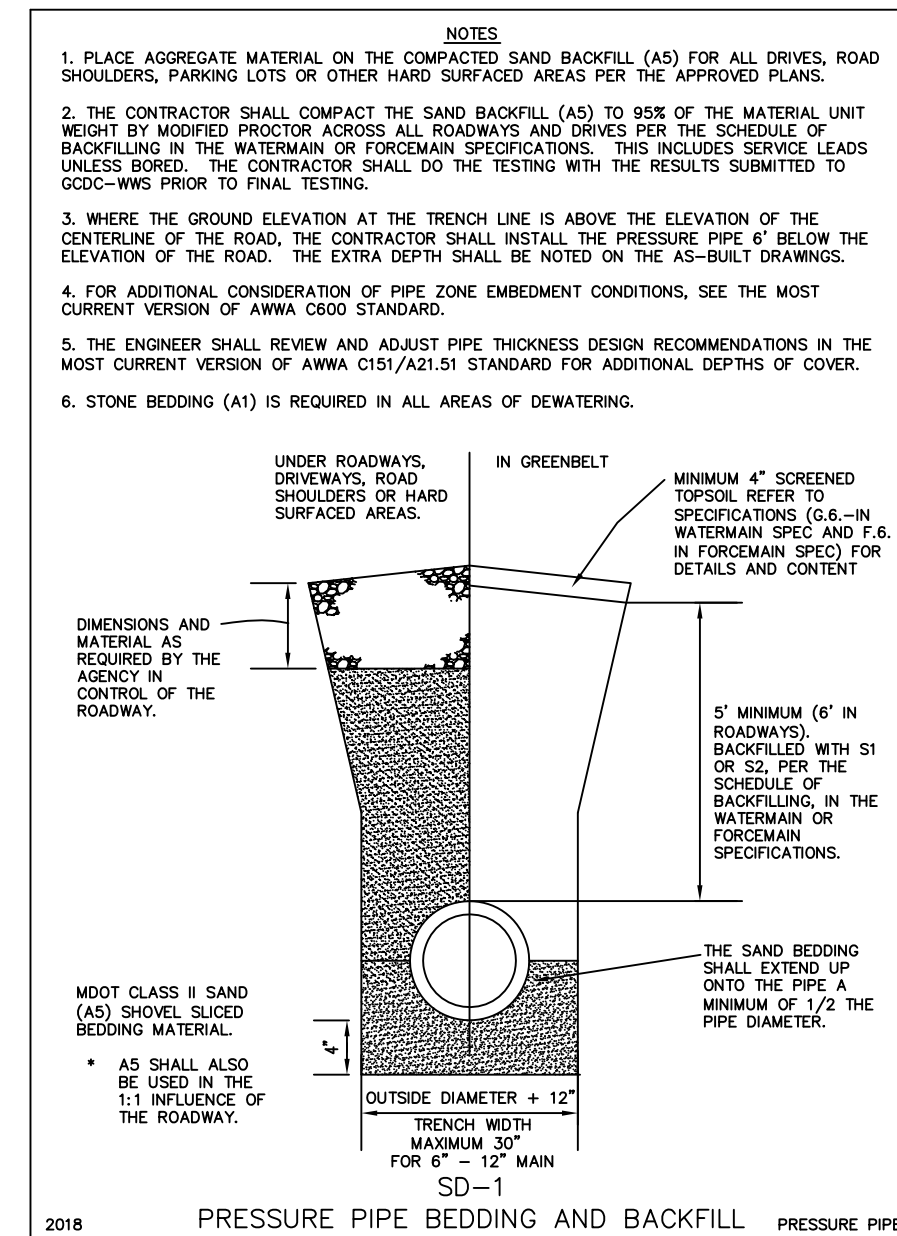
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SITE DESIGN FOR
JIMMY JOHN'S 1111 burgers and fries
ADDRESS:
4323 W VIENNA ROAD
CLIO, MICHIGAN 48420

DRAWN BY:	DJM
CHECKED:	DJM
SCALE:	NONE
DATE:	5.14.20
JOB NUMBER:	20200009
TITLE:	SITE DETAILS
SHEET NUMBER	

S12
OF
12



GENERAL CONSTRUCTION NOTES			SANITARY CONSTRUCTION NOTES			PRESSURE PIPE CONSTRUCTION NOTES					
1. STANDARD SPECIFICATIONS & DETAILS ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE LATEST GENESSEE COUNTY STANDARD SPECIFICATIONS AND STANDARD DETAILS FOR SANITARY SEWER, PRESSURE PIPE, AND PUMP STATION CONSTRUCTION. ANY DEVIATIONS FROM THE GDCC–WWS APPROVED PLANS WILL NOT BE PERMITTED. IF IT BECOMES NECESSARY TO REVISE THE PLAN, THEY SHALL BE RESUBMITTED TO GDCC–WWS FOR APPROVAL. 2. PRE–CONSTRUCTION MEETING A PRE–CONSTRUCTION MEETING SHALL BE HELD AT THE GDCC–WWS OFFICE PRIOR TO BEGINNING THE WORK. NO PRE–CONSTRUCTION MEETING SHALL BE HELD PRIOR TO OBTAINING THE STATE CONSTRUCTION PERMITS. THE MEETING'S TIME, PLACE, AND ATTENDEES SHALL BE ARRANGED BY THE ENGINEER FOR THE PROJECT. GDCC–WWS, GDCC–SWM, THE MUNICIPALITY, THE AGENCY HAVING AUTHORITY OVER THE ROADWAYS, PROJECT OWNER, CONTRACTOR, AND ANY AFFECTED UTILITIES SHALL BE INVITED, AS A MINIMUM, TO THE PRE–CONSTRUCTION MEETING. 3. MISS DIG 811 UTILITY ALERT THREE (3) WORKING DAYS PRIOR TO BEGINNING THE WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT MISS DIG 811 UTILITY PROTECTION SERVICE (1–800–482–7171 OR 811) TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. ALL UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE PROPERLY REPAIRED IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS. 4. FIELD LOCATION OF UTILITIES PRIOR TO BEGINNING THE WORK, THE CONTRACTOR SHALL BE REQUIRED TO EXPOSE ALL EXISTING UTILITIES THAT CROSS THE PROPOSED CONSTRUCTION, SO THE ENGINEER MAY DETERMINE IF A VERTICAL CONFLICT EXISTS BETWEEN AN EXISTING UTILITY AND THE PROPOSED WORK. ALL LABOR REQUIRED TO UNCOVER THE EXISTING UTILITY SHALL BE CONSIDERED INCLUDED IN THE LINEAL FEET OF PRESSURE PIPE OR SANITARY SEWER PIPE INSTALLED. THE CONTRACTOR SHALL VERIFY THE DEPTH AND HORIZONTAL LOCATIONS OF ALL UTILITIES IN SUFFICIENT TIME SUCH THAT ANY CONFLICTS CAN BE RESOLVED BEFORE WORK IS STARTED IN THAT PORTION OF THE PROJECT. THE CONTRACTOR SHALL ARRANGE FOR THE VARIOUS UTILITY OWNERS TO LOCATE, REMOVE AND REPLACE, OR RELOCATE THEIR FACILITIES. ALL COSTS FOR THIS SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PROJECT. 5. SUBSURFACE SOIL CONDITIONS PRIOR TO BIDDING, THE CONTRACTOR AND SUBCONTRACTORS SHALL MAKE A PERSONAL INVESTIGATION OF THE SITE AND EXISTING SURFACE AND SUBSURFACE CONDITIONS. THE CONTRACTOR SHALL ACQUAINT ITSELF WITH CONDITIONS OF THE WORK AREA. THE CONTRACTOR IS ADVISED TO DETERMINE THE SUBSURFACE SOIL AND GROUND WATER CONDITIONS. DEWATERING, IF DETERMINED NECESSARY BY THE CONTRACTOR AND IF NOT SPECIFICALLY REQUIRED BY THE CONTRACT DOCUMENTS, WILL BE INCIDENTAL TO THE COST OF INSTALLATION. 6. PERMITS AND FEES THE CONTRACTOR/DEVELOPER SHALL OBTAIN ALL PERMITS, INCLUDING THE PAYMENT OF ANY FEES OR BONDS, REQUIRED BY ANY FEDERAL, STATE, COUNTY, LOCAL, OR PRIVATE ORGANIZATIONS PRIOR TO COMMENCING WORK. 7. GDCC–WWS INSPECTION FEES THE DEVELOPER SHALL PAY FOR ALL SANITARY SEWER AND PRESSURE PIPE INSPECTION FEES AND WATER USAGE FEES PRIOR TO THE PRE–CONSTRUCTION MEETING. 8. SOIL EROSION CONTROL, PART 91 OF P.A. 451 OF 1994 THE CONTRACTOR/DEVELOPER SHALL COMPLY WITH ALL PROVISIONS OF PART 91, ACT 451 OF P.A. 1994 FOR SOIL EROSION AND SEDIMENTATION CONTROL AND WILL BE RESPONSIBLE FOR ALL MAINTENANCE UNTIL THE FINAL ACCEPTANCE OF THE PERMANENT CONTROL MEASURES BY GDCC–WWS. THE CONTRACTOR/DEVELOPER IS REQUIRED BY GDCC–WWS TO PREPARE AND SUBMIT A SOIL EROSION AND SEDIMENTATION CONTROL PLAN IN ORDER TO OBTAIN THE SOIL EROSION AND SEDIMENTATION CONTROL PERMIT AND TO PAY ANY APPLICATION FEES AND BOND FEES NECESSARY TO OBTAIN THE PERMIT. 9. STATE CONSTRUCTIONS PERMITS THE CONSTRUCTION OF PUBLIC SANITARY SEWERS OR PRESSURE PIPES SHALL NOT BEGIN UNTIL THE REQUIRED STATE CONSTRUCTION PERMITS HAVE BEEN OBTAINED. NOTE: SOIL EROSION AND CONSTRUCTION PLAN APPROVAL ARE SEPARATE APPROVALS AT GDCC–WWS. 10. ROADWAY PERMITS A PERMIT FROM THE AGENCY HAVING AUTHORITY OVER THE ROADWAYS IS REQUIRED FOR ALL CONSTRUCTION WITHIN ANY ROAD RIGHT–OF–WAY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE ALL NECESSARY PERMITS, POST ALL NECESSARY BONDS, PAY ALL FEES, AND OBTAIN ANY REQUIRED INSURANCES IN CONNECTION THERE WITH. 11. WORK OBSERVATION ALL WORK SHALL BE PERFORMED UNDER THE OBSERVATION OF A CONSTRUCTION OBSERVER FROM GDCC–WWS OR LOCAL MUNICIPALITY HAVING JURISDICTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OBSERVING AGENCIES THREE (3) WORKING DAYS OR 72 HOURS PRIOR TO STARTING CONSTRUCTION TO ARRANGE FOR ON–SITE OBSERVATION AND TESTING. CUT SHEETS FOR ALL PIPE INSTALLATION AND REDITCHING SHALL BE PROVIDED TO THE GDCC–WWS CONSTRUCTION OPERATION'S SUPERVISOR A MINIMUM OF 24 HOURS PRIOR TO STARTING THE WORK WITH RESPECT TO THAT UTILITY. GDCC–WWS OR THE LOCAL MUNICIPALITY HAVING JURISDICTION SHALL BE NOTIFIED FOR A FINAL INSPECTION. 12. CONTRACTOR'S MINIMUM WAGE & USE OF IN–COUNTY LABOR THE CONTRACTOR SHALL EMPLOY COMPETENT AND SKILLED WORKERS THROUGHOUT THE COURSE OF THE PROJECT. THE CONTRACTOR SHALL STRIVE TO USE GENESSEE COUNTY RESIDENTS WHEN FEASIBLE. THE CONTRACTOR SHALL BE REQUIRED TO PAY THE PREVAILING WAGE RATES AS ESTABLISHED BY THE BUILDING AND CONSTRUCTION TRADES DEPARTMENT OF THE AMERICAN FEDERATION OF LABOR WHICH APPLIES TO THE COUNTY OF GENESSEE. THESE RATES CAN BE OBTAINED BY CONTACTING THE MICHIGAN DEPARTMENT OF CONSUMER AND INDUSTRIAL SERVICES. 13. MIOSHA SAFETY REQUIREMENTS ALL WORK, WORK PRACTICE, AND MATERIALS SHALL COMPLY WITH ALL APPLICABLE STATE AND FEDERAL SAFETY GUIDELINES, OCCUPATION, HEALTH AND ENVIRONMENTAL REGULATIONS, AND ALSO NFPA AND ANSI CODES AS APPLICABLE. ALL WORK INSIDE A CONFINED SPACE, SUCH AS MANHOLES OR OTHER UNDERGROUND STRUCTURES, SHALL BE COORDINATED WITH THE UTILITY OWNER, AND ALL WORKER SAFETY REQUIREMENTS STRICTLY ENFORCED. THE CONTRACTOR SHALL HAVE ITS SAFETY PLAN ON FILE WITH GDCC–WWS AND ONE COPY ON SITE AT ALL TIMES. 14. ROADWAY REQUIREMENTS FOR UTILITY CONSTRUCTION THE CONTRACTOR SHALL COMPLY WITH ALL OF THE REQUIREMENTS OF THE GCRS OR LOCAL MUNICIPALITY REGARDING THE CONSTRUCTION OF PRESSURE PIPE AND SEWER MAINS, MAINTAINING TRAFFIC, BARRICADING, BORING, BACKFILLING AND RESTORATION WITHIN THE ROAD RIGHT–OF–WAY. 15. OPEN CUTTING OF COUNTY/LOCAL ROADS WHEN OPEN CUTTING OF GRAVEL OR HARD SURFACED ROADS ARE INCORPORATED INTO THE PROJECT, THE CONTRACTOR SHALL OBTAIN THE APPROVAL AND COMPLY WITH ALL OF THE REQUIREMENTS OF THE AGENCY HAVING AUTHORITY OVER THE ROADWAYS, AND BY THE SPECIFICATIONS OF GDCC–WWS.			IN ADDITION TO THE AS–BUILT MYLARS, THE OWNER/DEVELOPER SHALL PROVIDE TO GDCC–WWS AN ELECTRONIC DATA SET IN A MICROSOFT EXCEL SPREADSHEET DETAILING THE FOLLOWING ITEMS IN THEIR AS–BUILT LOCATIONS DEPICTED IN MICHIGAN STATE PLANE SOUTH COORDINATES (NAD83) AND ELEVATIONS (USGS/NGVD): ALL MANHOLES (WATER AND SANITARY), ALL HYDRANTS, ALL VALVES, AND ALL SERVICE RISERS (WATER AND SANITARY) AT THEIR TERMINUS, ALL METER PITS, AND ALL PUMP STATIONS. 33. 2–YEAR MAINTENANCE AND GUARANTEE BOND UPON COMPLETION OF THE WORK AND PRIOR TO FINAL APPROVAL, THE CONTRACTOR SHALL FURNISH THE GDCC–WWS WITH A 2–YEAR MAINTENANCE AND GUARANTEE BOND. 34. SOIL EROSION AND SEDIMENTATION CONTROL RELEASE PRIOR TO FINAL ACCEPTANCE BY GDCC–WWS, THE CONTRACTOR SHALL REQUEST A FINAL INSPECTION OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND RECEIVE WRITTEN APPROVAL FROM GDCC–WWS. THE SOIL EROSION AND SEDIMENTATION CONTROL BOND WILL BE RELEASED UPON GDCC–WWS FINAL APPROVAL. 35. ORDER OF PRECEDENCE IN RESOLVING INCONSISTENCIES BETWEEN TWO OR MORE SECTIONS OF THE CONTRACT DOCUMENTS, PRECEDENCE SHALL BE GIVEN IN THE FOLLOWING ORDER FROM (A) THROUGH (G): - AGREEMENT AND ANY CONTRACT MODIFICATIONS (WITH GDCC–WWS) - BID - SUPPLEMENTARY CONDITIONS - INSTRUCTION TO BIDDERS - GENERAL CONDITIONS OF THE CONTRACT - SPECIFICATIONS - DRAWINGS			1. ALL MATERIAL AND WORK SHALL COMPLY WITH THE LATEST GDCC–WWS SPECIFICATIONS AND STANDARD DETAILS. 2. NO CONNECTION TO AN EXISTING SANITARY SEWER SHALL BE MADE WITHOUT THE PRIOR APPROVAL OF GDCC–WWS. GDCC–WWS SHALL HAVE FINAL INSPECTION AUTHORITY AND APPROVAL FOR UNDERGROUND SANITARY SEWER FACILITIES. 3. THE MATERIAL FOR THE SANITARY SEWER SHALL BE SPECIFIED ON THE CONSTRUCTION DRAWINGS. THE FOLLOWING MATERIALS ARE ACCEPTABLE TO GDCC–WWS: 8" TO 15" PVC WITH A MINIMUM SDR OF 26 CONFORMING TO ASTM D–3034–00 GASKETED SEWER PIPE. - LARGER THAN 15" REINFORCED CONCRETE PIPE CONFORMING TO ASTM C–76–03. JOINTS SHALL BE MODIFIED TONGUE & GROOVE TYPE WITH SOLID RUBBER GASKETS CONFORMING TO ASTM C–443–02. MINIMUM SIZE SHALL BE CLASS III, WALL B AS RECOMMENDED BY THE ENGINEER. 4. ALL SANITARY SEWER SERVICE RISERS SHALL BE 6" INTERNAL DIAMETER SDR–26 PVC OR LOWER CONFORMING TO ASTM D–3034–00. JOINTS SHALL BE RUBBER GASKET JOINTS OR SOLVENT WELD BELL JOINTS. RISERS SHALL BE LEFT AT 8–10' DEEP AT THE RIGHT–OF–WAY OR EASEMENT LINE, OR AS DEEP TO SERVICE BASEMENTS. SERVICE RISERS WITHIN EASEMENTS SHALL BE EXTENDED A MINIMUM OF ONE PIPE LENGTH FROM THE MAINLINE SEWER OR TO THE EDGE OF THE EASEMENT, WHICH EVER IS LONGER. WEEP TILE, PERIMETER DRAINS, DOWN SPOUTS, OR ANY OTHER SOURCE OF WATER, SHALL NOT BE CONNECTED TO THE SANITARY SEWER. 5. PRECAST CONCRETE MANHOLES SHALL CONFORM TO ASTM C–478–03 WITH RUBBER JOINTS CONFORMING TO ASTM C–443–02. ALL FINAL ELEVATIONS OF MANHOLE CASTINGS SHALL BE DETERMINED BY GDCC–WWS. MANHOLE FRAMES AND COVERS SHALL BE BOLT–DOWN, WATERTIGHT EAST JORDAN 1040 2PI, NEEVAH FOUNDRY COMPANY R–1916F, OR GDCC–WWS APPROVED ALTERNATE. STEPS SHALL BE M.A. INDUSTRIES PS–1–PF, AMERICAN STEP CO. ML–10, OR A GDCC–WWS APPROVED ALTERNATE. 6. ALL SANITARY SEWERS SHALL BE INSTALLED PURSUANT TO THE SANITARY SEWER STANDARD DETAILS. DEEPER SEWERS, EXCESSIVE TRENCH WIDTH, AND WHERE NOTED, THE CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS SPECIFIED. 7. WHERE MANHOLE ADJUSTMENT IS REQUIRED, THE MAXIMUM AMOUNT OF ADJUSTMENT BETWEEN THE CASTING AND THE CONE SHALL BE 9". A MAXIMUM OF TWO ADJUSTMENT RINGS ARE ALLOWED. ONLY 3", 4", OR 6" CONCRETE ADJUSTMENT RINGS SHALL BE USED. THE MANHOLE SHALL BE WRAPPED PER SD–5 OF THE SANITARY SEWER DETAILS. 8. ALL SANITARY SEWERS 8" THROUGH 21" DIAMETER, INCLUDING SERVICE LEADS CONSTRUCTED AS PART OF WORK, SHALL UNDERGO A LOW PRESSURE AIR TEST AND AN INFILTRATION TEST, IN CONFORMANCE WITH ASTM C–924–02 OR C–969–02, PRIOR TO FINAL ACCEPTANCE. SANITARY SEWER SYSTEMS LARGER THAN 21" SHALL UNDERGO AN INFILTRATION TEST. THE MAXIMUM ALLOWABLE INFILTRATION FOR PVC SYSTEMS SHALL BE 0 GALLONS PER INCH DIAMETER, PER MILE, PER 24 HOURS, AND CONCRETE SYSTEMS SHALL BE 100 GALLONS PER INCH DIAMETER, PER MILE. 9. ALL PUBLIC SANITARY SEWERS 8" OR LARGER SHALL BE INTERNALLY TELEVIEWED (PAN/TILT) BY THE CONTRACTOR. THE TELEVIEWED REPORT, INCLUDING THE DVD, SHALL BE GIVEN TO GDCC–WWS PRIOR TO A REQUEST FOR FINAL INSPECTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING (JET/VAC) THE LINE AND ASSURING ALL DIRT AND DEBRIS HAS BEEN REMOVED PRIOR TO TELEVIEWING. PRIOR TO TELEVIEWING THE LINE, WATER SHALL BE PLACED IN THE MAIN FROM THE UPSTREAM MANHOLE UNTIL IT COMES OUT OF THE DOWNSTREAM MANHOLE. THE TELEVIEWED REPORT SHALL LIST THE DISTANCE A HOUSE LEAD IS LOCATED FROM A MANHOLE, ALL SHEAR BREAKS IN THE MAIN OR SERVICE LEADS, ALL LONGITUDINAL CRACKS, BROKEN PIPE, DIPS, OR HIGH POINTS IN THE LINE, ETC. THE CONTRACTOR SHALL REPAIR DAMAGED PIPE BY EXCAVATING THE PIPE AND REPLACING THE LENGTH OF PIPE IN AN APPROVED METHOD. LEAKING JOINTS SHALL BE REPAIRED BY THE CONTRACTOR BY GROUTING. A LEAKING JOINT IS DEFINED AS HAVING SUFFICIENT INFILTRATION TO WET THE INTERIOR OF THE JOINT. GDCC–WWS SHALL BE NOTIFIED WHEN THE LINE IS TO BE TELEVIEWED AND SHALL BE PRESENT TO INSPECT REPAIRS. 10. SANITARY MANHOLES SHALL BE PLACED CLOSEST TO PROPERTY CORNERS WHEN FEASIBLE. 11. PRIOR TO PERFORMING ANY TESTING, THE CONTRACTOR SHALL BE REQUIRED TO DO THE FOLLOWING: - CONDUCT PRELIMINARY TESTS ON THE SYSTEM. - PROVIDE THE RESULTS FROM THE PRELIMINARY TESTS ON THE SYSTEM. - PROVIDE RESULTS OF DENSITY CHECKS ON COMPACTED SAND BACKFILL FROM A CERTIFIED TESTING AGENCY. - FURNISH A COMPLETED TWO–YEAR MAINTENANCE & GUARANTEE BOND. - COMPLETE FINAL ADJUSTMENTS ON ANY SANITARY SEWER STRUCTURES. 12. PRIOR TO FINAL APPROVAL, THE FOLLOWING ITEMS MUST BE COMPLETED BY THE CONTRACTOR: - THE FINAL TESTING SHALL CONSIST OF VISUAL INSPECTION OF MANHOLES, TELEVIEWING OF SANITARY MAIN, LOW PRESSURE AIR TEST, AND/OR INFILTRATION TEST DEPENDENT ON THE SIZE OF THE SANITARY MAIN (SEE #9 ABOVE), AND PASSING AN APPROPRIATE SIZED MANDREL 30 DAYS AFTER THE MAIN HAS BEEN INSTALLED. - PROVIDE MATERIAL CERTIFICATES. - PROVIDE RECORDED COPIES OF ALL EASEMENTS FOR THE MASTER DEED REFLECTING FINAL PROJECT RECORD DOCUMENT LOCATIONS.			1. ALL MATERIAL AND WORK SHALL COMPLY WITH THE LATEST GDCC–WWS SPECIFICATIONS AND STANDARD DETAILS. 2. ALL PUBLIC PRESSURE PIPE SHALL BE DUCTILE IRON. THE PIPE SHALL BE BELL AND SPIGOT OR RESTRAINED JOINT FITTINGS FITTED WITH A RUBBER GASKET. FITTINGS MAY BE GRAY IRON OR DUCTILE IRON MEETING CLASS 350 PSI RATING. FOR 3" OR SMALLER SANITARY SEWER FORCEMAIN, SDR–21 PVC MAY BE UTILIZED. 3. ALL PIPES, VALVES, AND FITTINGS SHALL BE POLYWRAPPED, EXCEPT IN MANHOLES. CIRCUMFERENTIAL WRAPS OF MANUFACTURER RECOMMENDED TAPE SHALL BE PLACED AT NO GREATER THAN 4' INTERVALS ALONG THE BARREL OF THE PIPE, WITH THE EXCESS FOLDED OVER THE TOP TO TAKE OUT EXCESS SLACK, HELPING TO MINIMIZE THE SPACE BETWEEN THE POLYETHYLENE AND THE PIPE. COMPLETE THE INSTALLATION BY OVERLAPPING THE POLYETHYLENE TUBE WRAP AT EACH END AND SEAL ENDS PER THE MOST CURRENT VERSION OF AWWA C105/A21.5 STANDARD. WRAPPING PVC PIPE IS NOT REQUIRED. 4. WHERE SANITARY SERVICE LEADS OR OTHER UTILITIES ARE ENCOUNTERED, THE CONTRACTOR SHALL MAKE ADJUSTMENTS TO PROVIDE CONTINUOUS SERVICE TO PROPERTIES ALONG THE ROUTE OF CONSTRUCTION. ALL WORK, INCLUDING THE REBORING OF SANITARY SEWER SERVICE RISERS TO ACCOMMODATE CONSTRUCTION, OR ADJUSTING PRESSURE PIPE INSTALLATION TO CLEAR EXISTING SERVICES, SHALL BE INCLUSIVE TO CONSTRUCTION. 5. ALL PRESSURE PIPES SHALL HAVE A MINIMUM COVER OVER THE TOP OF THE PIPE OF 5' FROM FINISHED GRADE, 5' CLEARANCE UNDER DRAINS, 5' CLEARANCE BELOW EXISTING DITCHES, AND/OR A MINIMUM 5' BELOW THE EXISTING ROAD. THE STANDARD LAYING CONDITIONS FOR PRESSURE PIPE SHALL BE A 30" TRENCH WIDTH, OR PIPE DIAMETER PLUS 12". THE PIPE SHALL BE LAID ON MDOT CLASS II SAND (A5) A MINIMUM OF 4" WITH RECESSES TO ACCOMMODATE PIPE BELLS OR AS SHOWN ON THE PLANS. 6. ALL TRENCH EXCAVATION, UNDER OR WITHIN THE ONE–ON–ONE INFLUENCE OF THE EXISTING OR PROPOSED PAVING, SHALL BE BACK FILLED WITH COMPACTED MDOT CLASS II SAND (A5). 7. THE CONTRACTOR SHALL RESTRAIN ALL THRUST IN THE SYSTEM BY THE USE OF GDCC–WWS APPROVED RESTRAINED JOINTS AND THRUST BLOCKS. DURING THE INSTALLATION OF WATERMAIN, ALL HYDRANTS, TEES, VERTICAL OR HORIZONTAL BENDS AND FUTURE VALVE CONNECTIONS SHALL BE RESTRAINED. THE RESTRAINT SYSTEM AND LOCATION IN THE FIELD SHALL BE DESIGNATED ON THE PLANS. 8. THE CONTRACTOR SHALL ENCASE THE PRESSURE PIPE IN CONCRETE WHERE THE VERTICAL SEPARATION BETWEEN THE SANITARY SEWER OR STORM SEWER AND THE WATERMAIN IS LESS THAN 18" INCHES. 9. GATE VALVES SHALL BE RESILIENT SEATED CONFORMING TO THE MOST CURRENT VERSION OF AWWA C509 OR C515 STANDARDS. VALVES SHALL HAVE A VERTICAL, NON–RISING STEM, AND OPEN CLOCKWISE, OR AS SPECIFIED BY LOCAL MUNICIPALITY HAVING JURISDICTION. 10. FIRE HYDRANTS SHALL CONFORM TO THE MOST CURRENT VERSION OF AWWA C502 STANDARD. ALL HYDRANTS SHALL BE TRAFFIC MODELS WITH BREAKAWAY FLANGES, AND SHALL HAVE THE DRAIN HOLES FACTORY PLUGGED. ALL THE FIRE HYDRANT ASSEMBLIES FROM THE TEE THROUGH THE HYDRANT, SHALL BE RESTRAINED BY A GDCC–WWS APPROVED METHOD. FIRE HYDRANTS SHALL BE PLACED AT PROPERTY CORNERS AND WITHIN THE RIGHT–OF–WAY WHEN POSSIBLE AND SHALL BE PAINTED YELLOW WITH THE CAP COLOR CODED IN ACCORDANCE WITH THE STANDARD DETAILS. FINAL ELEVATIONS AND ADJUSTMENTS TO GRADE, USING EXTENSION PIECES IF REQUIRED, SHALL BE ACCOMPLISHED BY THE CONTRACTOR AT THE CONTRACTOR'S SOLE EXPENSE. FIRE HYDRANTS SHALL HAVE A 5 1/4" VALVE OPENING. FIRE HYDRANTS SHALL BE EAST JORDAN 5BR 250, AMERICAN FLOW CONTROL WATEROUS PACER W667–250, OR A GDCC–WWS APPROVED ALTERNATE. 11. PRESSURE TAPS TO EXISTING WATERMAIN, AND CONNECTIONS TO EXISTING VALVES, SHALL BE MADE ONLY UNDER GDCC–WWS OR THE LOCAL MUNICIPALITY HAVING JURISDICTION. ALL VALVE OPENING AND CLOSING SHALL BE BY THE OPERATIONAL AUTHORITY. (ONLY A GDCC–WWS APPROVED TAPPING SLEEVE IS ALLOWED FOR ALL PRESSURE TAPS.) A CONCRETE MANHOLE SHALL BE REQUIRED AROUND ALL PRESSURE TAPS. SEE PRESSURE PIPE DETAILS. 12. THE CONTRACTOR SHALL HAVE THE OPTION OF PRESSURE TESTING THE WATERMAIN AGAINST THE EXISTING VALVE AT THE POINT OF BEGINNING OF THE PROJECT OR PLACING A CAP WITHIN 10' OF THE EXISTING VALVE AND STUB. IF TESTING AGAINST THE EXISTING VALVE AND IT LEAKS, THE CONTRACTOR SHALL MAKE REPAIRS AND REPEAT THE PRESSURE TEST AGAINST THE EXISTING VALVE, AT THE CONTRACTOR'S SOLE EXPENSE. IF A CAP HAS BEEN PLACED, THEN THE CONTRACTOR SHALL PERFORM THE SYSTEM TEST, AND IF THE TESTS ARE SATISFACTORY TO GDCC–WWS, THEN THE FINAL CONNECTION SHALL BE MADE. 13. WATERMAIN SHALL BE TESTED IN ACCORDANCE WITH MOST CURRENT VERSION OF AWWA C600 STANDARD, AND CHLORINATED IN ACCORDANCE WITH THE LATEST GENESSEE COUNTY STANDARD SPECIFICATIONS. WATERMAIN SHALL BE TESTED TO 150 PSI AS MEASURED AT THE HIGH POINT IN THE WATER LINE. WATERMAIN CHLORINATION SHALL BE OBSERVED AND MONITORED BY GDCC–WWS OR THE LOCAL MUNICIPALITY HAVING JURISDICTION. CHLORINATION AND TESTING SHALL BE AT THE CONTRACTOR'S SOLE EXPENSE. A LETTER OF APPROVAL FROM THE AGENCY HAVING AUTHORITY SHALL BE ISSUED PRIOR TO THE WATER BEING USED FOR HUMAN CONSUMPTION. 14. WHEN SPECIFIED BY THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL SUPPLY ALL WATER SERVICE LEADS. THESE LEADS SHALL BE "K" COPPER AND SHALL BE A MINIMUM OF 3/4" IN DIAMETER. THEY SHALL BE INSTALLED IN ACCORDANCE WITH THE WATERMAIN STANDARD DETAIL. ALL CORPORATIONS SHALL BE BRONZE. ALL APPURTENANCES THAT COME IN CONTACT WITH PORTABLE WATER SHALL BE LEAD FREE ACCORDING TO NSF/ANSI STANDARD 372. 15. THE CONTRACTOR SHALL INSTALL, AS A MINIMUM, 2" CORPORATIONS ON THE PRESSURE PIPE FOR PRESSURE TESTING, CHLORINE ADDITION, AND FOR BLOW–OFF PURPOSES. THE CORPORATIONS SHALL HAVE COPPER PIPE EXTENDING TO THE GROUND SURFACE. THE CONTRACTOR SHALL REMOVE THE CORPORATIONS AND COPPER LINES UPON A SATISFACTORY TEST AND INSTALL BRONZE PLUGS PRIOR TO FINAL ACCEPTANCE. 16. PRIOR TO REQUESTING ANY FINAL PRESSURE TESTING AND GATHERING THE REQUIRED BACTERIA SAMPLES (FOR WATERMAIN ONLY), THE CONTRACTOR SHALL PERFORM THE FOLLOWING ITEMS: - CONDUCT A PRELIMINARY PRESSURE TEST ON THE SYSTEM. - PROVIDE THE RESULTS FROM THE PRELIMINARY TESTS ON THE SYSTEM. - PROVIDE PROPER CAP COLOR ON THE FIRE HYDRANTS (FOR WATERMAIN ONLY). 17. PRIOR TO FINAL APPROVAL, THE FOLLOWING ITEMS SHALL BE COMPLETED BY THE CONTRACTOR: - FURNISH A COMPLETED TWO–YEAR MAINTENANCE & GUARANTEE BOND. - PROVIDE MATERIAL CERTIFICATES. - COMPLETE FINAL ADJUSTMENTS OF FIRE HYDRANTS (FOR WATERMAIN ONLY), VALVES, AND MANHOLES. - PROVIDE RESULTS OF DENSITY CHECKS ON COMPACTED SAND BACKFILL FROM A CERTIFIED TESTING AGENCY. - PROVIDE RECORDED COPIES OF ALL EASEMENTS FOR THE MASTER DEED REFLECTING FINAL PROJECT RECORD DOCUMENT LOCATIONS.		
NO.	DATE	DESCRIPTION	DIVISION OF WATER & WASTE SERVICES			STANDARD CONSTRUCTION NOTES					
1	2018	SEVENTH EDITION				STANDARD DETAILS					
						For the Construction of Sanitary Sewers & Watermain in Genessee County					
						GENESEE COUNTY WWS DRAIN COMMISSIONER					



NOTICE OF PUBLIC HEARING

A public hearing will be held by the Vienna Township Zoning Board of Appeals on **Wednesday June 24, 2020 at 5:30 p.m.** The hearing will take place virtually via Zoom in accordance with Executive Order No. 2020-48 on April 14, 2020 allowing remote participation in public meetings and hearings for public bodies subject to the Open Meetings Act

The Zoning Board of Appeals will be hearing an appeal for a zoning variances on the property located at 4323 W Vienna Rd, to build a Jimmy Johns and 1111 Burgers and Fries on the lot.

To attend the meeting:

<https://zoom.us/j/92477237226?pwd=cnQ5TUpaSEtqZHMvM3hWbXhoZC85UT09>

Meeting ID: 924 7723 7226

Password: 0rxtT6

Or go to: <https://zoom.us/join> Then enter the meeting ID and password

Legal Description:

A PARCEL OF LAND BEG S 89 DEG 18 MIN 40 SEC W 499.90 FT FROM N 1/4 COR OF SEC TH S 0 DEG 15 MIN 20 SEC E 239 FT TH S 89 DEG 18 MIN 40 SEC W 46.76 FT TH N 84 DEG 57 MIN 49 SEC W 96.86 FT TH N 6 DEG 11 MIN 20 SEC E 51.24 FT TH N 29 DEG 19 MIN 53 SEC W 86.71 FT TH N 4 DEG 47 MIN 32 SEC W 37.46 FT TH N 0 DEG 15 MIN 20 SEC W 65 FT TH N 89 DEG 18 MIN 40 SEC E 182.56 FT TO PL OF BEG SEC 21 T9N R6E .89 A (91) FR 1800012532

Parcel #: 18-21-100-034

This meeting is open to the public. Interested parties can examine the application and plans on the Vienna Township website located at www.viennatwp.com, or by calling the building department at 810-686-7676 to arrange a time to see them. Written comments will be received at the Vienna Township Office until 5:00 p.m. on the hearing date and can be emailed to dmcdonagh@viennatwp.com.

Dated: June 4, 2020

Publish: June 10, 2020

Vienna Township Zoning Board of Appeals

Individuals with disabilities requiring auxiliary aids or services shall contact Vienna Township by writing or calling, 7 business days before the Public Hearing, Cynthia J. Bryan, 3400 W Vienna, Clio, MI 48420, 810-686-7580

Parcel ID	Property Address	Name	street	City	state	ZIP
18-21-100-035	4337 W VIENNA RD	TACO BELL CORP #003386	PO BOX 80615	INDIANAPOLIS	IN	46280
18-21-100-059	W VIENNA RD	TTC CO., LLC	7145 S DIVISION AVE	GRAND RAPIDS	MI	49548
18-21-100-072	4313 W VIENNA RD	MCDONALD'S CORP (021-0322)	PO BOX 182571	COLUMBUS	OH	43218-2571
18-16-300-045	4280 W VIENNA RD	WENDYS RESTAURANT #9201	PO BOX 128	SALINE	MI	48176
18-21-100-070	4295 W VIENNA RD	JALINDE II, LLC	2200 RIVEREDGE PKWY, STE 851	ATLANTA	GA	30328
18-21-100-072	4313 W VIENNA RD	MCDONALD'S CORP (021-0322)	4313 W VIENNA RD	CLIO	MI	48420
18-21-100-035	4337 W VIENNA RD	TACO BELL CORP #003386	4337 W VIENNA RD	CLIO	MI	48420
18-21-100-070	4295 W VIENNA RD	BURGER KING	4295 W VIENNA	CLIO	MI	48420
18-16-300-045	4280 W VIENNA RD	WENDYS RESTAURANT	4280 W VIENNA	CLIO	MI	48420
18-21-100-059	4325 W VIENNA RD	TRADEWINDS RV	4325 W VIENNA	CLIO	MI	48420

