OWOSSO Planning Commission



Regular Meeting 7:00pm, Monday, May 23, 2016 Owosso City Council Chambers



MEMORANDUM

301 W. MAIN • OWOSSO, MICHIGAN 48867-2958 • WWW.CI.OWOSSO.MI.US

- DATE: May 19, 2016
- TO: Chairman Wascher and the Owosso Planning Commission
- FROM: Susan Montenegro, asst. city manager/director of community development
- RE: Regular Planning Commission Meeting: May 23, 2016

The planning commission shall convene at 7:00pm on Monday, May 23, 2016 in the city council chambers of city hall.

The purpose of the meeting will be to hear the rezoning petition for S. Park Street (parking lot attached to 1007 S. Washington) and site plan review for 123 S. Shiawassee Street (Advanced Eye Care).

At this time I am asking to move further review of the sign ordinance to the June meeting as I have not had enough time to devote to research and cannot make recommendations at this time. Tyler has been working on charts to put into the sign ordinance that will be presented at the June meeting as well.

Please **RSVP for the meeting.** Feel free to contact me at 989.725.0544 if you have questions.

Sue

AGENDA Owosso Planning Commission Regular Meeting

Monday, May 23, 2016 at 7:00 p.m. Council Chambers – Owosso City Hall Owosso, MI 48867

CALL MEETING TO ORDER:

PLEDGE OF ALLEGIANCE:

ROLL CALL:

APPROVAL OF AGENDA: May 23, 2016

APPROVAL OF MINUTES: April 25, 2016

COMMUNICATIONS:

- 1. Staff memorandum.
- 2. PC minutes from April 25, 2016.
- 3. Rezoning application packet 1007 S. Washington.
- 4. Site Plan application packet for 123 S. Shiawassee
- 5. Sign ordinances from: Owosso, Grand Haven, Greenville, Holland and Traverse City.

COMMISSIONER/PUBLIC COMMENTS:

PUBLIC HEARINGS:

1. Rezoning of S. Park Street, Parcel 050-652-011-006-00 from R-1 to B-4.

SITE PLAN REVIEW:

1. 123 S. Shiawassee – Advanced Eye Care.

BUSINESS ITEMS:

None.

ITEMS OF DISCUSSION:

1. Sign ordinance updating.

COMMISSIONER/PUBLIC COMMENTS:

ADJOURNMENT: Next meeting will be Monday, June 27, 2016

<u>Commissioners, please call Sue at 725-0544 if you will be unable to attend the meeting on Monday,</u> <u>May 23, 2016.</u>

[The City of Owosso will provide necessary reasonable auxiliary aids and services, such as signers for the hearing impaired and audiotapes of printed materials being considered at the meeting, to individuals with disabilities at the meeting/hearing upon seventy-two (72) hours notice to the City of Owosso. Individuals with disabilities requiring auxiliary aids or services should contact the City of Owosso by writing or calling the following: Amy Kirkland, City Clerk, 301 W. Main St, Owosso, MI 48867 (989) 725-0500]. The City of Owosso website is: www.ci.owosso.mi.us

Affirmative Resolutions Owosso Planning Commission Regular Meeting Monday, May 23, 2016 at 7:00 p.m. Council Chambers – Owosso City Hall Owosso, MI 48867

Resolu	ution 160523-01		
Motion	:		
	rt:		
	The Owosso Planning	commission hereby approves the agenda of May 23, 2016	as presented.
	Ayes:		
	Approved:	Denied:	
Resolu	ution 160523-02		
Motion	:		
	rt:		
	The Owosso Planning	commission hereby approves the minutes of April 25, 2016	as presented.
	Ayes:		
	Nays:		
	Approved:	Denied:	
Resolu	ution 160523-03		
Motion	:		
	rt:		
	The Owosso Plannin 050-652-011-006-00	Commission hereby approves the zoning changes for S. Pa m R-1 to B-4. OR	ark Street, parcel
		commission rejects the zoning changes for S. Park Street, p B-4 based on the following:	barcel 050-652-
	Nays:		
	Approved:	Denied:	

Resolution 160523-04

Motion:	
Support:	

The Owosso Planning Commission hereby approves the application for site plan review for 123 S. Shiawassee Street as applied and attached hereto in plans dated April 28, 2016.

OR

The Owosso Planning Commission hereby denies the application for site plan review for 123 S. Shiawassee Street as applied and attached hereto in plans dated April 28, 2016 based on the following criteria:

	Ayes: Nays:							
	Approved:	Denied:						
Resolu	tion 160523-05							
Motion:								
Support	t:							
	The Owosso Planningpm.	Commission hereby	/ adjourns th	e May 23	2016	meeting,	effective at	t
	Ayes:							
	Nays:							
	Approved:	Denied:						

MINUTES REGULAR MEETING OF THE OWOSSO PLANNING COMMISSION COUNCIL CHAMBERS, CITY HALL MONDAY, APRIL 25, 2016 – 7:00 P.M.

<u>CALL TO ORDER:</u> Chairperson Bill Wascher called the meeting to order at 7:00 p.m.

PLEDGE OF ALLEGIANCE: Was recited.

ROLL CALL: Roll call was taken by Recording Secretary Roxane Cramer.

- **MEMBERS PRESENT:** Chairman Bill Wascher, Vice-Chair Craig Weaver, Commissioners Tom Taylor, Michelle Collison, Janae Fear, Frank Livingston and Garfield Warren.
- **MEMBERS ABSENT:** Commissioners Frank Livingston, Mike O'Leary and Brent Smith.
- OTHERS PRESENT: Troy Crowe, Sheridan Auction Service, Tyler Lepannen, Housing Program Manager, Susan Montenegro, Assistant City Manager /Director of Community Development.

APPROVAL OF AGENDA:

MOTION BY COMMISSIONER TAYLOR, SUPPORTED BY VICE CHAIR WEAVER TO APPROVE THE AGENDA FOR MARCH 28, 2016. YEAS ALL. MOTION CARRIED.

<u>APPROVAL OF MINUTES:</u> MOTION BY COMMISSIONER TAYLOR, SUPPORTED BY VICE CHAIR WEAVER TO APPROVE THE MINUTES FOR MARCH 28, 2016. YEAS ALL. MOTION CARRIED.

COMMUNICATIONS:

- 1. Staff memorandum
- 2. PC minutes for March 28, 2016
- 3. Rezoning application packet 1007 S. Washington St.
- 4. Sign ordinances from: Owosso, Grand haven, Greenville, Holland and Traverse City

COMMISSIONER/PUBLIC COMMENTS

Ms. Montenegro introduced Tyler Leppanen. Ms. Montenegro stated that Tyler has been doing housing and he will continue to work on local housing issues but will be stepping into the role of code enforcement and community development. Ms. Montenegro stated she asked him to come and start participating in the meetings as another staff person.

PUBLIC HEARINGS:

1. 1007 S. Washington Street – rezoning

Troy Crowe, from Sheridan Auction Service, explained that the State of Michigan now requires them to have a dealer's license because they sell so many cars during the year. He is asking the planning commission to change the business from a B-1 to a B-4. Sheridan takes consignments on the inside and outside of the building. They own everything that is paved. Commissioners inquired about how long the cars would be located at the Owosso location.

MOTION BY COMMISSIONER TAYLOR, SUPPORTED BY COMMISSIONER WARREN THAT THE OWOSSO PLANNING COMMISSION HEREBY APPROVES REZONING OF THE PROPERTY LOCATED AT 1007 SOUTH WASHINGTON STREET, LOTS, 22, 23 AND 24 BE REZONED FROM B-1 TO B-4.

Roll Call Vote.

- AYES: Vice-Chair Weaver, Commissioners Fear, Warren, Taylor, Collison, and Chairman Wascher
- NAYS: None
- ABSENT: Commissioners Livingston, O'Leary and Smith.

SITE PLAN REVIEW:

None.

BUSINESS ITEMS:

None.

ITEMS OF DISCUSSION:

1. Sign Ordinance Updating.

Ms. Montenegro supplied the commissioners with several different sign ordinances for comparison with the current City of Owosso sign ordinance. Commissioners had a lengthy discussion regarding changes in the sign ordinance. Discussions centered on the like and dislikes of each sign ordinance they reviewed. Currently Ms. Montenegro is working on a new application for the sign ordinance. The previous application was a basically a building permit and the fee structure for signs is based on a building permit. Ms. Montenegro feels that this fee structure doesn't work. The definitions need to be clear and not confusing. Commissioners Taylor guestioned if commissioners should start going through the sign ordinance to redo it. Chairman Wascher pointed out that the language needed to be updated. He noted the example in the sign ordinance the term "blueprints" was used, he pointed out no one does blue prints any longer. Drawing or Sketch would be the correct language. Ms. Montenegro shared that maybe it would be a good idea to check with sign companies to see what types of signs they use and if the current list of definitions is relevant. She also stated that the last time the City of Owosso updated the sign code was the "Uniformed Sign Code of 1991". She said the latest one is the "Uniform Sign Code of 1997". Tyler Leppanen stated it would be easier for him to have one chart by zoning district. Commissioner Garfield suggested using pictures would be helpful. Chairman Wascher stated that he thought it would be a good idea for the commissioners to take the information home and study it more. Ms. Montenegro summarized that she is going to do the following: email the sign application to the commissioner along with the land use permit for Grand Haven. She is going to check with sign companies to see if they would take a look at the definitions in the City of Owosso ordinance to see if the language is current. She will find out why the "free standing sign and structure sign" were repealed. She will verify that there isn't a newer "Uniformed Sign Code".

COMMISSIONER/PUBLIC COMMENTS:

Commissioner Taylor asked Ms. Montenegro if the medical marijuana dispensary had been closed down. Ms. Montenegro explained that she only knows what he knows. As the zoning administrator, Ms. Montenegro explained to the owner that the location of the facility is in compliance with the City of Owosso ordinance. She also explained to the owner that the facility could be open for a day, six months or years before they could possibly shut it down and by that time the law may have changed. ADJOURNMENT:

MOTION BY COMMISSIONER TAYLOR, SUPPORTED BY COMMISSIONER FEAR TO ADJOURN AT 8:19 P.M. UNTIL THE NEXT MEETING ON MAY 24, 2016. YEAS ALL, MOTION CARRIED.

Janae Fear, Secretary

APPLICATION FOR REZONING

CITY OF OWOSSO

301 W. Main Street, Owosso, Michigan 48867, TX 989-725-0540, FX 989-723-8854

Note to Applicants:

- 1. In order that this application may be processed, the applicant must completely fill in the application and make a non-refundable payment of <u>Three Hundred Dollars (\$300) to the Trea</u>surer's Office, to cover costs associated with the processing.
- The applicant or his/her representative must be present at the Planning Commission and City Council public hearings for action to the taken on this request.

TO THE OWOSSO CITY COUNCIL:

I, (we), the undersigned, do hereby respectfully make application and petition the City Council to amend the Zoning Ordinance and change the Zoning Map as hereinafter requested,

	eet Address 1007 S. WASHINGTON ST OWOSSO
Description: (lot, block or metes and b	ounds) hors 22,23,24,89,10,11,12,13
Frontage in Feet 80'	_ Depth in Feet _ 264'
2. <u>PROPERTY OWNERSHIP</u> : (Name,) <u>CROWE PROPERTIES LLC</u>	Address, and Phone Number) <u>POBOX 1627 OWOSSO MI 989-666-633</u>
	ng <u>B- </u> Requested Zoning <u>B-4</u>
Proposed Use of the Property	
the public health safety neace morals comfo	hange is consistent with the Ordinance in prompting and protecting ort, convenience and general welfare of the inhabitants of the City of
OWOSSO: OUR AUCTION BUSINESS &	LEQUIRES US TO HAVE A DEALERS LICENSE TO
SELL VEHICES BY AUCTION	J, SJ WE NEED TO HAVE THE LILENSE.
setter market	
The above information has been submitted in	support of the rezoning and is accurate and truthful to the best of our
knowledge.	
	PO BOX 1627 OLUSSO MI
(Signature of Applicant)	(Address) (89 - 666 - 6339)
(Signature of Co-Applicant)	(Phone)
Legal Representative	
Owner	
Option to Purchase	
FOR OFFICIAL USE ONLY	
Case #	Planning Commission Hearing Date
Case # Receipt #	Action Taken
Date Filed	
Description Checked	Action Taken

City of Owosso

Parcel 050-652-011-006-00

S. Park Street



May 2, 2016

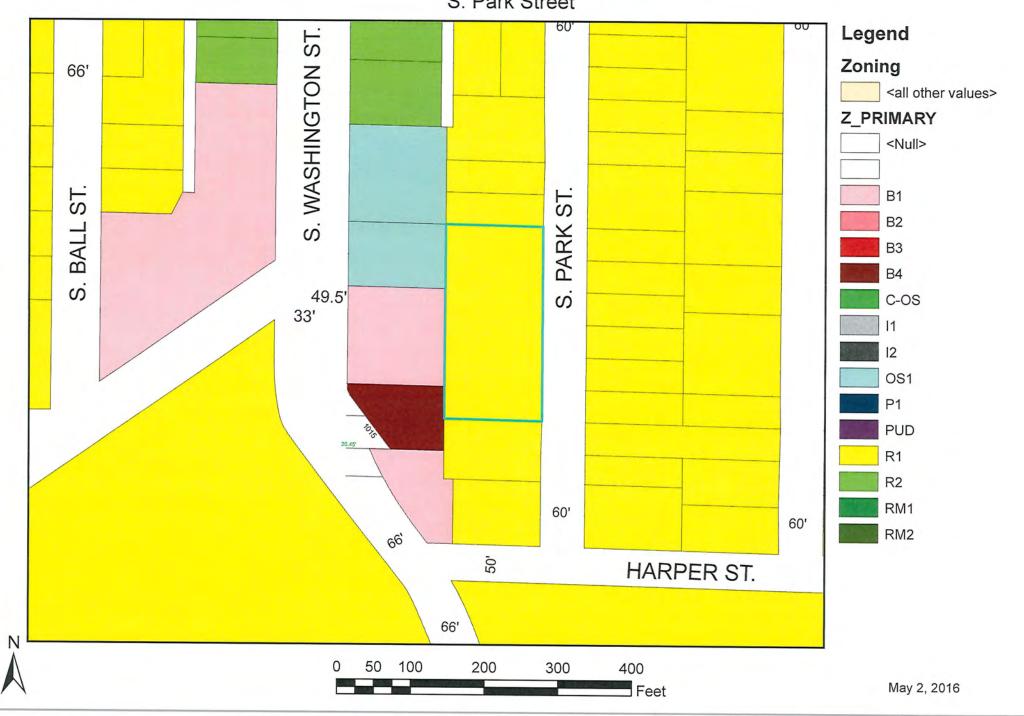
City of Owosso

Parcel 050-652-011-006-00 S. Park Street



City of Owosso

Parcel 050-652-011-006-00 S. Park Street



OFFICIAL NOTICE OF PROPOSED REZONING

A Public Hearing will be held on a proposal to rezone the properties described below at the Owosso City Planning Commission Regular Meeting on Monday, May 23, 2016. Proposed use of the property would be for business. Owner needs correct zoning to obtain a dealer's license to sell cars at auction.

APPLICANT: #2016-01	Crowe Properties, LLC PO Box 1627 Owosso, MI 48867
PROPERTY ADDRESS:	S. Park Street
PROPOSED REZONING:	FROM: R-1 Single Family Residential District TO: B-4 General Business District
PROPERTY DESCRIPTION:	Parcel number 050-652-011-006-00 LOTS 8 THRU 13 BLK 11 A L WILLIAMS 2ND ADD INCLDG 1/2 CLSD ALLEY
LOT SIZE:	Frontage 264' Depth 132'
MEETING INFORMATION:	Owosso City Planning Commission regular meeting on Monday, May 23, 2016. The meeting will be held in the lower level of the Owosso City Hall at or soon after 7:00 p.m.
WRITTEN COMMENTS:	Written comments may be submitted to the clerk's office at city hall or to Susan Montenegro at <u>susan.montenegro@ci.owosso.mi.us</u> any time prior to the meeting.

Further information on this case is on file in the Community Development Office for your review.

Susan Montenegro Assistant City Manager/Director of Community Development 989.725.0544 susan.montenegro@ci.owosso.mi.us

[The City of Owosso will provide necessary reasonable auxiliary aids and services, such as signers for the hearing impaired and audio tapes of printed materials being considered at the meeting, to individuals with disabilities at the meeting/hearing upon seventy-two (72) hours notice to the City of Owosso. Individuals with disabilities requiring auxiliary aids or services should contact the City of Owosso by writing or calling the following: Amy Kirkland, City Clerk, 301 W. Main St, Owosso, MI 48867 (989) 725-0500. Website address is www.ci.owosso.mi.us.]

CITY OF OWOSSO, MICHIGAN

SITE PLAN REVIEW APPLICATION AND CHECKLIST

Approval of the site plan is hereby requested for the following parcel(s) of land in the City of Owosso. This application is submitted with three (3) copies of the complete site plan and payment of the appropriate review fees. Applicant shall also submit a digital version of the site plan to the community development director. Application must be filed least 25 days prior to a scheduled planning commission meeting for staff review and proper notices.

Accompanying any site plan required hereunder, the applicant shall provide from a licensed engineer soil borings at the proposed construction site to ascertain bearing capacity of foundations soils at the time of footing excavation to certify such soil conditions meet or exceed design capacity of the foundation to support the proposed structure. These requirements shall comply with policies of the City of Owosso, copies of which can be obtained from the Building Department.

The attached checklist has been completed to certify the data contained on the site plan. If the required data has not been provided, the appropriate box has been checked with a statement of explanation on why the data has not been provided. I understand that if my site plan is deemed to be incomplete, it may be returned by the City for revisions without being forwarded to the Planning Commission for consideration, until such time as the requirements have been adequately met. By signing this application, the applicant hereby grants full authority to the City of Owosso, its agents, employees, representatives and/or appointees to enter upon the undersigned lands/parcel(s) for the purposes of inspection and examination.

Application Filed On: April 28, 2016

Application Transmitted by City On:

Property Details:

- 1. Name of Proposed Development: <u>Advanced Eye Care & Contact Lens Center</u>
- 2. Property Street Address: <u>123 S. Shiawassee St.</u>
- Location of Property: On the (north, south, east, west side) of <u>Shiawassee St.</u>
 Street, between <u>Main St.</u> and <u>Clinton St.</u>
 Streets.

- 4. Legal Description of Property: See Site Plan
- 5. Site Area (in acres and square feet): 0.485 acres, 21,126 sf
- 6. Zoning Designation of Property: B-1 Commercial

Ownership:

- 1. Name of Title/Deed Holder: St. Charles Enterprises, LLC/ David E. Duryea
- 2. Address: 1555 W. Brady Rd.
- 3. Telephone No: (989) 845-7050
- 4. Fax No: _____
- 5. Email address:

Applicant:

- 1. Applicant (If different from owner above): Same as Owner above
- 2. Address:_____
- 3. Telephone No: _____
- 4. Fax No: _____

5. Email a Idress:

6. Interest in Property (potential buyer/lease holder/potential lessee/other):

Architect/Sun evor/Engineer preparing site plan:

- 1. Name (f Individual: RICHARD D. KEITH, ARCHITECT
- 2. Addres :: WOLGAST DESIGN GROUP, LLC 1494 N. GRAHAM ROAD FREELAND, MI 48623
- 3. Telephone No: (969) 790-9120
- 4. Fax No (989) 781-1394
- 5. Email address: RICK@WOLGAST.COM

PLEASE NOT

LLC establishments must have a current plan of operation.

Review Fees:

Paid: Yes/No

*Site Plan Review Fees: \$150.00 (may be more if it requires review from outside firm)

Total Fees: \$ 50.00

4-27-16 Signature of Applican

Signature of Deed Title Holder Date

Please provice an overview of the project:

CONSTRUCTION OF A ONE STORY 4,325 GROSS S.F. PROFESSIONAL OFFICE BUILDING WITH A 1,382 S.F.

BASEMENT, PARKING LOT AND RELATED SITE AND UTILITY IMPROVEMENTS

SITE PLAN REVIEW CHECKLIST

Check the appropriate line. If item is marked as 'not provided', attach detailed explanation.

-

a

		Not
Item	Provided	Provided
1. Site location Map.	<u>x</u>	
2. North arrow, scale (one (1) inch equals fifty (50) feet if the subject		
property is less than three (3) acres and one (1) inch equals one hundred		
(100) feet if three (3) acres or more.	<u> </u>	
3. Revision dates.	<u> </u>	
Signature and Seal of Architect/Surveyor/Engineer.	<u>×</u>	
5. Area of site (in acres and square feet).	X	
6. Boundary of the property outlined in solid line.	<u>X</u>	<u> </u>
Names, centerline and right-of-way widths of adjacent streets.	<u>x</u>	
8. Zoning designation of property.	<u>_X</u>	
9. Zoning designation and use of adjacent properties.	Х	
10. Existing and proposed elevations for building(s) parking lot areas and		
drives.	<u>x</u>	
11. Direction of surface water drainage and grading plan and any plans for		
storm water retention/detention on site.	х	
12. Required setbacks from property lines and adjacent parcels.	x	
13. Location and height of existing structures on site and within 100 feet of		
the property.	х	
14. Location and width of existing easements, alleys and drives.	X X	
15. Location and width of all public sidewalks along the fronting street		
right-of-way and on the site, with details.	х	
16. Layout of existing/proposed parking lot, with space and aisle dimensions.	x	
17. Parking calculations per ordinance.	x	
18. Location of all utilities, including but not limited to gas, water, sanitary		
sewer, electricity, telephone.	х	
19. Soil erosion and sedimentation control measures during construction.		Deferred
20. Location and height of all exiting/proposed fences, screens, walls or		
other barriers.	х	
21. Location and details of dumpster enclosure and trash removal plan.	x	<u></u>
22. Landscape plan indicating existing/proposed trees and plantings along		
frontage and on the site.	x	
23. Notation of landscape maintenance agreement.		x
24. Notation of method of irrigation.	x	
25. Lighting plan indicating existing/proposed light poles on site, along site's	·	
frontage and any wall mounted lights.	х	
-	x	
a. Cut-sheet detail of all proposed light fixtures.	<u> </u>	
26. Architectural elevations of building (all facades). Identifying height,	х	
Materials used and colors.	<u>×</u>	
27. Existing/proposed floor plans.	×	
28. Roof mounted equipment and screening.	<u>×</u>	
29. Location and type of existing/proposed on-site signage.	<u> </u>	N/A
30. Notation of prior variances, if any.	·	
31. Notation of required local, state and federal permits, if any.	<u> </u>	N/A

32. Additional information or special data (for some sites only)		
a. Environmental Assessment Study.	N/A	
b. Traffic Study. Trip Generation.	N/A	
c. Hazardous Waste Management Plan.	N/A	
33. For residential development: a schedule indicating number of dwelling		
units, number of bedrooms, gross and usable floor area, parking provid	lea, N/A	
total area of paved and unpaved surfaces.	<u></u>	
34. LLC establishments must have a current Plan of Operation.		
35. Is property in the floodplain?		
36. Will this require MDEQ permitting? 37. Performance Bond – when required.		

1 1

*Additional data deemed necessary to enable to completion of an adequate review may be required by the Planning Commission, City and/or its consultants.

City of Owosso Planning Commission Staff Report – Site Plan

MEETING DATE: May 23, 2015

TO: Planning commission

FROM: Susan Montenegro, asst. city manager/director of community development

SUBJECT: Site plan approval request for Advanced Eye Care

PETITIONER'S REQUEST AND BACKGROUND MATERIALS

Location 123 S. Shiawassee Street – Parcel 050-700-001-014-00 117 S. Shiawassee Street – Parcel 050-700-001-013-00

Surrounding land uses and zoning

	LAND USE	ZONING
North	Business – Former Marathon Station	B-4
East	Residential	RM-2
South	Residential	RM-2
West	Business – Carwash	B-4

Comparison chart

	EXISTING	PROPOSED
Zoning	B-1	B-1
Gross lot area	132' x 120' = 15,840 square feet	No change
Setbacks- Front Side Rear	15' (k) 10' (l) 10' (m, n) * <i>see below</i>	Parking will be in front yard setback
Height allowed	35'	< 35'

* Notes to schedule

(k) Off-street parking shall be permitted within the front yard.

(I) No side yards are required along the interior side lot lines of the district, except as otherwise specified in the building code. On a corner lot which borders on a residential district to the rear, there shall be provided a setback of twenty (20) feet on the side or residential street. On an exterior side yard abutting a residential district or abutting a street, there shall be provided a setback of ten (10) feet in width.

(m) Loading space shall be provided in the rear yard in the ratio of at least ten (10) square feet per front foot of building and shall be computed separately from the off-street parking requirements; except in the instance of O-1 districts, loading space shall be provided in the ratio of five (5) square feet per front foot of building. Where an alley exists or is provided at the rear of buildings, the rear building setback and loading requirements may be computed from the center of said alley.

(n) When adjacent to an R-1, R-2 or RT-1 district, the minimum rear yard setback shall be ten (10) feet or ten (10) percent of the depth of the lot, whichever is greater, provided that the maximum setback so required shall be sixty (60) feet.

Planning background

Sheet L1.00: Tree and shrub plan adjacent to entry/exit driveway should be evaluated for proper sight distance for exiting vehicles. Proposed shrub and tree must take into consideration line-of-sight for exiting drivers. Evergreen tree should not be allowed here. Shrubbery and deciduous tree satisfactory for this location provided they are properly trimmed and maintained. Shrubbery in an entrance/exit drive area shall not exceed a height of 36".

Utilities and Engineering

Storm Sewer:

- Sheet 6: Storm sewer size and inverts shown on plan. CB's 531 and #1 both shallow due to field conditions. City will provide 6" SDR-26 PVC connection to ROW line, where contractor will make proper fitting with proposed private storm sewer. Drawing shows all site drainage to be drained to proposed catch basins per city code. Eight-inch (8") storm drain questionable until I can review calculations.
- Proposed 1-inch type K-copper water service and a 5 / 8 inch meter is OK. Tap in location on Clinton Street is OK.

Sanitary Sewer:

- Service lead material should be SDR-26 PVC ASTM D3034, and not SDR-35.
- Connection to 8-inch sanitary sewer (on Clinton Street) is approximately 165 ft east of sewer main located on M-52. This tap point should have plenty of grade/fall to meet the minimum 1% grade from the building to the main.
- Sanitary sewer service lateral shall be connected to the sewer main by means of a sewer pipe wye.

Sidewalk/Drives/Parking Lot:

- Sheet 6: Proposed public sidewalk appears satisfactory and barrier free across drive approaches.
- Valve box shown in drive approach should be properly boxed out during concrete construction, for future expansion.
- Sheets 4-7: Appears some proposed work may encroach inside MDOT ROW. Developer advised to contact MDOT about this and whether they will require a ROW permit.
- Sheet 5: Proposed parking layout given. Number of ADA spaces and layout dimensions appear to meet city code. One stall must be signed 'Van Accessible'. Location of proposed ADA spaces questionable. Current location will force a handicapped motorist to back into and across entry lane from street. Advise developer to consider moving spaces away from entry point and closer to building doors.
- Sheet 8: Detail for curb and gutter shows use of reinforcement bar. Although the city normally does not use reinforcement bar, I recommend it be used across commercial driveways.

 Sheet 1: Note 1 of Concrete Construction note should be modified. All concrete constructed inside public ROW should be proportioned with 564 #/cyd of cement. All concrete mixes shall have cement content meeting or exceeding six-full sack mix per cubic yard. Note 6 of Concrete Construction note should be modified so that longitudinal grade shall not exceed 5% (1:20) for sidewalk outside of ramp locations. In ramp locations the longitudinal slope can be increased to 7% (1:14) with max allowed of 8.3%(1:12) with city approval, per MDOT typical details R-28 series.

Soil Erosion Sedimentation Control:

• Sheet 7: SESC Plan. Will need to go to Shiawassee County Health Department for review and approval.

Site Lighting Plan:

• Sheet ES1.00: appears satisfactory. The lighting effect of proposed device next to entry/exit drive is optimistic as to lighting effect through tree and towards building. That lighting effect will most likely diminish as the tree grows.

Building

No changes requested at this time. Full building plan review will be performed when construction documents are received.

	_	≣ 2∭	Next Day	y Next Day A.M.	U.P.S	
	JG	<u>اااا کرط</u>	 Courier	Pick Up	U.S.P.S	
		WN	LETT	'er of tf	RANSMITTAL	
DESIGN (GR	DUP, LLC	DATE:	4/28/2016 Ja	BNO. A15737	
		REELAND, MI 48623	ATTENTION:	Susan Montenegi		
		FAX (989) 781-1394	RE:	Proposed New O	ffice Building for	
				Advanced Eye Ca	re ¢ Contact Lens Ce	
TO City of Owosso			_	123 S. Shiawass	ee	
Community Develop						
301 W. Main Stree			_		<u> </u>	
Owosso, MI 4886	/				<u> </u>	
GENTLEMEN:						
WE ARE SENDING YOU	I	X Attached	Under sepa	arate cover via	the following items:	
Shop drawings		X Prints	Plans	Samples	Specifications	
Copy of letter		Change order				
OPIES DATE	NO.	DESCRIPTION				
3	_				Plan, Floor Plans & Elevations	
		Site Plan Review App		klist		
		DOT Detention Calcu				
		Check #241589 (\$1	50 tee)			
					······································	
					·	
HESE ARE TRANSMIT	TED as (checked below:				
X For approval		Reviewed a	as noted	Rejected		
For your use		Revise and	l Resubmit	Furnish	copies as corrected	
As requested Prints Returned After Loan To Us						
For review and e	comme	nt 🔲			·	
FOR BIDS DUE		2	0			
EMARKS						
					<u></u>	

FLOODPLAIN INFORMATION

CITY OF OWOSSO SAGINAW COUNTY, MICHIGAN PANEL 0231C COMMUNITY NUMBER: 260596 MAP NUMBER: 26155C0231C EFFECTIVE DATE: SEPTEMBER 29, 2011 ZONE: X - 726.90

ZONING

ZONED:	B-1	(COMMERCIAL)

SETBACKS: FRONT – 15' (ON BOTH FRONTAGES FOR CORNER LOT) SIDE – 10' (ABUTTING RESIDENTIAL) REAR – 10'

MINIMUM LOT AREA:	N/A
MINIMUM LOT WIDTH:	N/A
MINIMUM LOT DEPTH:	N/A
MAXIMUM BUILDING HEIGHT:	35' (3.5 STORIES
MAXIMUM COVERAGE:	N/A

PARKING

PARKING REQUIREMENT: PROFESSIONAL OFFICE

9' x 18'-4" SPACE WITH MINIMUM 24' DRIVE LANE FOR TWO-WAY TRAFFIC

1 SPACE PER 100 S.F. OF USABLE FLOOR AREA

2,531 SQ. FT. USABLE FLOOR AREA

2,531 SQ. FT. / 100 = 25 SPACES REQUIRED

PROPOSED SPACE COUNT BARRIER FREE SPACES - 2 SPACES STANDARD SPACES - 26 SPACES TOTAL PROPOSED SPACES – 28 SPACES

UTILITIES

THE FOLLOWING UTILITY COMPANIES HAVE FACILITIES WITHIN THE PROJECT LIMITS:

- 1. FOR WATER AND SEWER OWOSSO CITY UTILITIES 301 WEST MAIN STREET OWOSSO, MI 48867 PH: 989-725-0555
- 2. FOR GAS AND ELECTRIC CONSUMERS ENERGY 530 WILLOW STREET LANSING, MI 48937 PH: 517-373-6100
- 3. FOR TELEPHONE FRONTIER COMMUNICATIONS 311 SOUTH CEDAR IMLAY CITY, MI 48444 PH: 810-724-3127
- 4. FOR ZONING PLANNING, ZONING & COMMUNITY DEVELOPMENT 301 WEST MAIN STREET OWOSSO, MI 48867 PH: 989-725-0540

PARCEL DESCRIPTION (050-700-001-014-00)

(PER HOMELAND TITLE SERVICES, SEARCH NO. 15–9540, DATED: SEPTEMBER 22, 2015)

A PARCEL OF LAND SITUATED IN THE NE 1/4 OF SECTION 24, TOWN 7 NORTH, RANGE 2 EAST, OWOSSO TOWNSHIP, SHIAWASSEE COUNTY, MICHIGAN, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

LOTS 13. 14 AND 15. "WOODARDS SUBDIVISION OF BLOCK NO. 1 OF A.L. WILLIAMS ADDITION TO THE VILLAGE OF OWOSSO", SHIAWASSEE COUNTY, MICHIGAN.

CONTAINS 0.485 ACRES OF LAND. SUBJECT TO ALL EASEMENTS AND RECORDS, IF ANY.

UTILITY NOTE

THE UTILITY LOCATIONS ARE BASED ON FIELD OBSERVATIONS AND A CAREFUL REVIEW OF MUNICIPAL AND UTILITY RECORDS. HOWEVER, IT IS NOT POSSIBLE TO DETERMINE THE PRECISE SIZE, LOCATION, DEPTH, PRESSURE, OR ANY OTHER CHARACTERISTICS OF UNDERGROUND UTILITIES, TANKS OR SEPTIC FIELDS WITHOUT EXCAVATION. THEREFORE, WE CANNOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE BURIED UTILITY INFORMATION HEREON SHOWN. THE CONTRACTOR SHALL CALL MISS DIG (811) A MINIMUM OF THREE WORKING DAYS PRIOR TO ANY EXCAVATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THESE UTILITY LOCATIONS PRIOR TO CONSTRUCTION AND MAKE EVERY EFFORT TO PROTECT AND/OR RELOCATE THEM AS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER / SURVEYOR AS SOON AS POSSIBLE IN THE EVENT A DISCREPANCY IS FOUND.

GENERAL NOTES

- 1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE ALL PERMITS AND POST ALL BONDS PRIOR TO CONSTRUCTION, OR ENSURE THAT ALL REQUIRED PERMITS AND BONDS HAVE BEEN OBTAINED PRIOR TO CONSTRUCTION.
- 2. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING MISS-DIG (811) AT LEAST 3 WORKING DAYS PRIOR TO EXCAVATION.
- 3. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. ALL UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED WITH LIKE MATERIAL. THE EXACT LOCATION OF EXISTING UTILITIES SHALL BE LOCATED BY HAND DIGGING.
- 4. ALL TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES ARE TO BE IN PLACE PRIOR TO STARTING REMOVALS.
- 5. THE CONTRACTOR SHALL BE LIABLE FOR ANY DAMAGE TO STREETS, SIDEWALKS OTHER STRUCTURES AND ADJACENT AREAS CAUSED BY DEMOLITION OR HAULING OPERATIONS.
- 6. THE CONTRACTOR SHALL TAKE ALL NECESSARY ACTIONS TO ENSURE WORKER SAFETY AND COMPLIANCE WITH MI-OSHA GUIDELINES.
- 7. DIMENSIONS ARE TO FACE OF CURB, OUTSIDE FACE OF BUILDING, EDGE OF PAVEMENT, CENTER OF STRUCTURE OR OTHERWISE INDICATED. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL DIMENSIONS PRIOR TO CONSTRUCTION. ADJUST WORK AS REQUIRED TO MEET FIELD DIMENSIONS AT NO ADDITIONAL COST TO THE OWNER.
- 8. REFER TO ARCHITECTURAL PLANS FOR ACCURATE BUILDING DIMENSIONS AND LAYOUT.
- 9. CONTRACTOR SHALL COORDINATE CONSTRUCTION STAGING AND ACCESSIBILITY WITH OWNER.
- 10. THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE PROPOSAL AND ACCOMPANYING SPECIFICATIONS FOR THIS PROJECT INCLUDING THE 2012 MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, AASHTO'S 2011 POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS, THE 2011 MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND THE CITY OF OWOSSO.
- 11. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER AS TO COMPLY WITH ALL FEDERAL, STATE, AND LOCAL CODES FOR NOISE LEVELS, HOURS OF OPERATION FOR CONSTRUCTION ACTIVITY, VIBRATIONS, OR ANY OTHER RESTRICTIONS.
- 12. COORDINATION BY THE CONTRACTOR; NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR ANY DELAY OR INCONVENIENCE DUE TO MATERIAL SHORTAGES OR DELAYS DUE TO THE OPERATIONS OF SUCH OTHER PARTIES DOING WORK INDICATED OF SHOWN ON THE PLANS OR IN THE PROPOSAL OR FOR ANY DELAYS IN CONSTRUCTION DUE TO THE ENCOUNTERING OF EXISTING UTILITIES THAT MAY OR MAY NOT BE SHOWN ON THE PLANS.
- 13. ANY QUANTITIES AND DIMENSIONS SHOWN IN PLANS ARE PROVIDED FOR INFORMATION ONLY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO CONSTRUCTION.

REMOVAL

- 1. REMOVALS SHALL BE DONE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- 2. SAW CUTTING FOR PAVEMENT REMOVAL AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER SHALL BE TO THE DEPTH REQUIRED FOR NEAT REMOVAL OF PAVEMENT OR CONCRETE.
- 3. SAW CUTTING DEPTH SHALL BE ADEQUATE TO PREVENT SPALLING, CHIPPING, OR DAMAGE TO EXISTING PAVEMENT EDGES LEFT IN PLACE AS DIRECTED.
- 4. ANY ADDITIONAL TREE REMOVALS, CLEARING, GRADING, ETC. NEEDED FOR THE CONTRACTOR'S STAGING AND/OR WORK OPERATIONS SHALL BE COMPLETED AND AREA RESTORED TO THE SATISFACTION OF THE OWNER WITHOUT ADDITIONAL COMPENSATION.
- 5. ADDITIONAL WORK OUTSIDE OF THE LIMITS AS SHOWN ON THE PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO STARTING THE ADDITIONAL WORK.
- 6. MATERIALS REMOVED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND BE PROPERLY DISPOSED OF AT AN OFF SITE LOCATION.

AGGREGATE CONSTRUCTION

- 1. AGGREGATE USED FOR PAVEMENT BASE SHALL MEET THE REQUIREMENTS OF SECTION 902 OF THE 2012 MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND SHALL BE MDOT CLASS 22A OR 21AA OR AS APPROVED BY THE ENGINEER.
- 2. AGGREGATE BASE CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH SECTION 302 OF THE 2012 MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.

HMA CONSTRICTION

- 1. HMA USED FOR PAVEMENT SHALL MEET THE REQUIREMENTS OF SECTION 501 OF THE 2012 MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND GRADE SHALL BE AS NOTED PER PLANS AND DETAILS OR AS APPROVED BY THE ENGINEER.
- 2. HMA PAVEMENT CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH SECTION 501 OF THE MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.
- 3. HMA BOND COAT WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF HMA PAVING.

MAINTENANCE OF TRAFFIC

- 1. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE 2011 MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND MDOT MAINTAINING TRAFFIC TYPICAL PLANS.
- 2. CONTRACTOR TO PROVIDE NECESSARY SIGNAGE, BARRICADES, AND OTHER DEVICES FOR PROTECTION OF THE PUBLIC AND CONSTRUCTION WORKERS PRIOR TO PERFORMING ANY WORK.

4. PARKING STALL SPACES TO BE 4" SOLID YELLOW PAINT STRIPES, HANDICAP PARKING TO BE 4' SOLID BLUE PAINT STRIPES W/ BARRIER FREE STRIPING OF 4" SOLID BLUE @ 2' O.C. ON 45' ANGLE.

CONCRETE CONSTRUCTION

- SERIES.

RESTORATION

PAVEMENT MARKING AND SIGNAGE

1. ACCESSIBLE PARKING SIGNS (R7-8 AND R7-8B) SHALL BE INSTALLED ON A 3 LB STEEL POST IN ACCORDANCE WITH MOOT SIGNING SPECIAL DÉTAIL SIGN-200-A AND SECTION 810 OF THE MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.

2. WATERBORNE PAVEMENT MARKINGS SHALL MEET THE REQUIREMENTS OF SECTION 920 AND BE APPLIED IN ACCORDANCE WITH SECTION 811 OF THE MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.

3. ACCESSIBLE PARKING PAVEMENT MARKING SYMBOLS SHALL BE IN ACCORDANCE WITH MDOT STANDARD PAVEMENT MARKING STANDARD PLAN PAVE-956-A.

1. CONCRETE USED FOR CURB AND SIDEWALK SHALL MEET THE REQUIREMENTS OF SECTION 601 OF THE 2012 MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND SHALL BE MDOT GRADE P1 WITH A MINIMUM CEMENT CONTENT OF 526 LB/CYD OR AS APPROVED BY THE ENGINEER.

2. CONCRETE PAVEMENT CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH SECTION 602 OF THE 2012 MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.

3. CONCRETE SIDEWALKS SHALL BE CONSTRUCTED ACCORDING TO MDOT STANDARD DETAIL R-29

4. EXPANSION JOINTS WITH EXPANSION FILLER SHALL BE PLACED WHERE THE CONCRETE PAVEMENT ABUTS AN EXISTING PAVED SURFACE OR BUILDING OR AS DIRECTED BY THE ENGINEER.

5. PROPOSED SIDEWALK CUT JOINTS SHALL BE CONSTRUCTED TO DIVIDE THE SIDEWALK INTO APPROXIMATELY 25 SQUARE FOOT AREAS OR AS DIRECTED BY THE ENGINEER.

6. ALL SIDEWALKS AND BARRIER FREE RAMPS SHALL BE CONSTRUCTED WITH A MAXIMUM 1:48 CROSS-SLOPE AND A MAXIMUM 1:12 LONGITUDINAL SLOPE.

7. ALL SIDEWALKS EXCEEDING THE MAXIMUM LONGITUDINAL SLOPE SHALL BE PROVIDED WITH HAND RAILS ON BOTH SIDES AS DIRECTED BY THE ENGINEER.

8. SIDEWALK CURB RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH MDOT STANDARD PLAN R-28 SERIES.

1. THE CONTRACTOR SHALL RESTORE ALL DISTRUBED AREAS UPON COMPLETION OF THE PROJECT.

2. ALL DISTURBED AREAS SHALL BE BROUGHT TO FINAL GRADE AND STABILIZED AS SOON AS POSSIBLE AFTER BEING DISTURBED. PERMANENT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED WITHIN FIVE CALENDAR DAYS OF COMPLETING FINAL GRADING.

3. ALL PERMANENT SLOPES STEEPER THAN 4:1 SHALL BE STABILIZED USING MULCH BLANKETS AS LISTED ON THE PLANS.

4. CONTRACTOR SHALL PLACE 3" OF TOPSOIL, SEED AND MULCH AS INDICATED ON ALL DISTURBED AREAS NOT UNDER PAVEMENT OR OTHERWISE LABELED.

5. ALL FILL SHALL BE CLEAN INERT MATERIAL.





ARCHITECTS ENGINEERS PLANNERS

929 Bridgeview South Saginaw, Michigan 48604 P (989) 393-4200 | F (734) 522-6427

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WATER & SEWER UTILITY SYMBOLS

<u>EXISTING</u>

Ost	STORM MANHOLE
	SQUARE CATCH BASIN
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Os	SANITARY MANHOLE
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⊗ GW	GATE VALVE & WELL
\bigcirc	GATE VALVE & BOX
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\bullet	STORM MANHOLE

	STORM MANHOLE
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GV&W	GATE VALVE & WELL
GV&B	GATE VALVE & BOX
TSV&W	TAPPING SLEEVE VALVE & WELL
TSV&B	TAPPING SLEEVE VALVE & BOX
۲	FIRE HYDRANT
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REAL ESTATE SYMBOLS



CONTIGUOUS PROPERTY SYMBOL



- XXXX PARCEL NUMBER BOX
 - NO ROW IMPACTS

MISCELLANEOUS UTILITY SYMBOLS

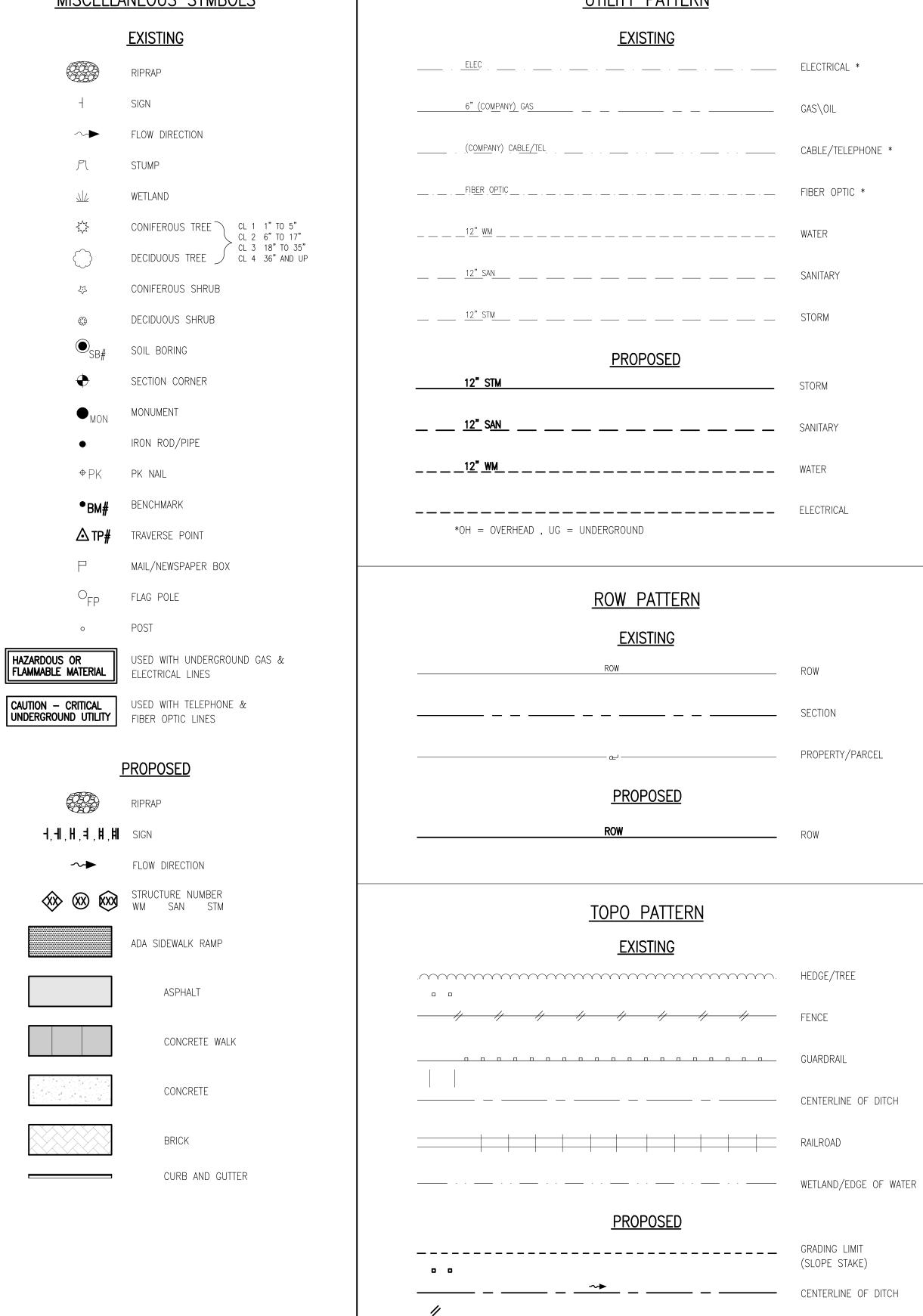
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\rightarrow	TRAFFIC SIGNAL
P-	PEDESTRIAN RISER
Ð	TRANSFORMER PAD
U	PRIVATE UTILITY MANHOLE
₩ R	RAILROAD CROSSING
E	ELECTRIC METER
ЪВ	PHONE BOOTH
TS	TRAFFIC SIGNAL CONTROLLER
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Ţ	TELEPHONE RISER
Ĉ	CABLE TV RISER
\mathbb{W}	MONITORING WELL

UNDERGROUND MARKER

MISCELLANEOUS SYMBOLS

<u>UTILITY PATTERN</u>



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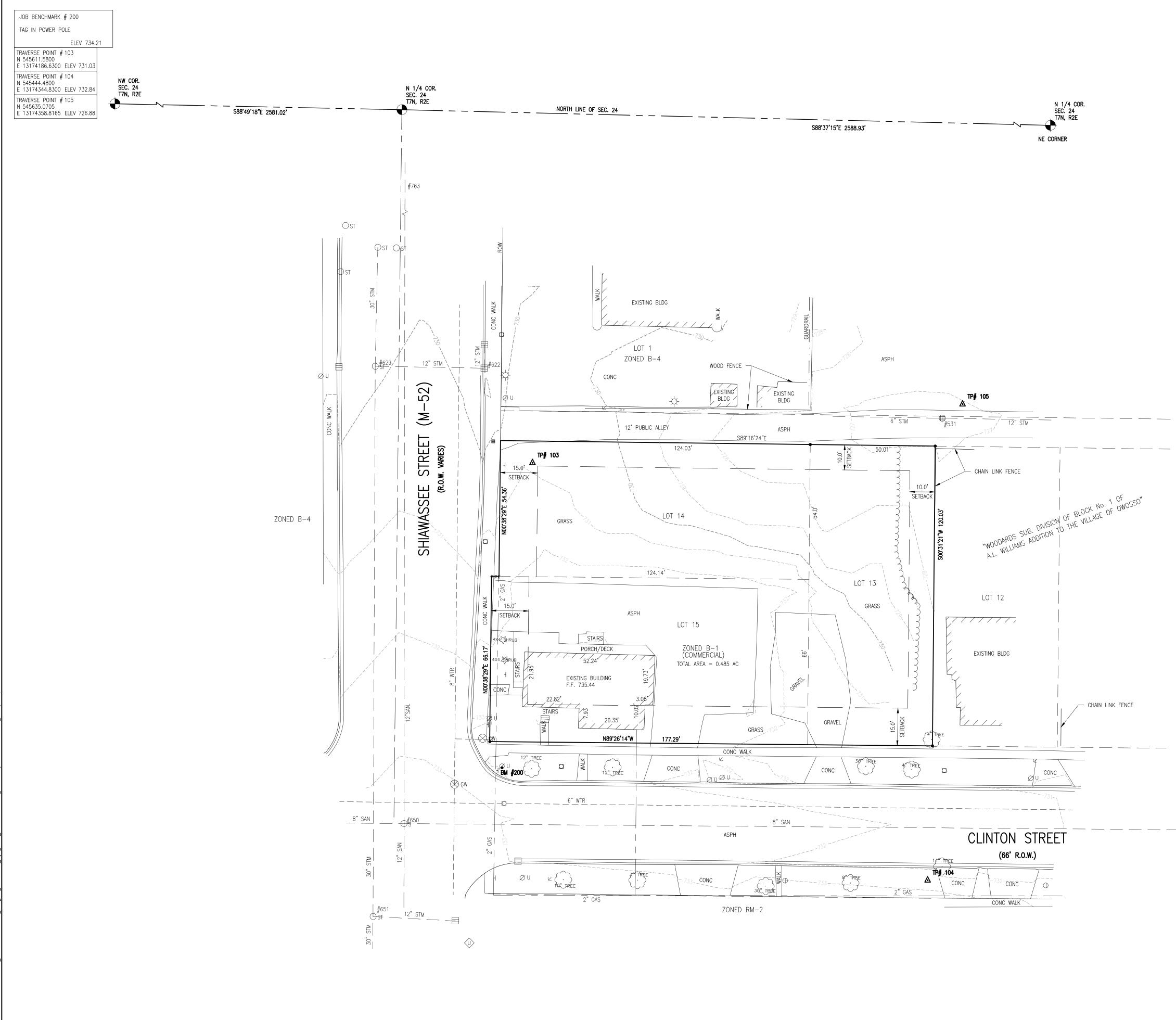
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SIDEWALK REMOVAL
HMA SURFACE REMOVAL
PAVEMENT REMOVAL
COLD MILLING HMA SURFACE
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CURB AND GUTTER, REM
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ADJUST BY OTHERS

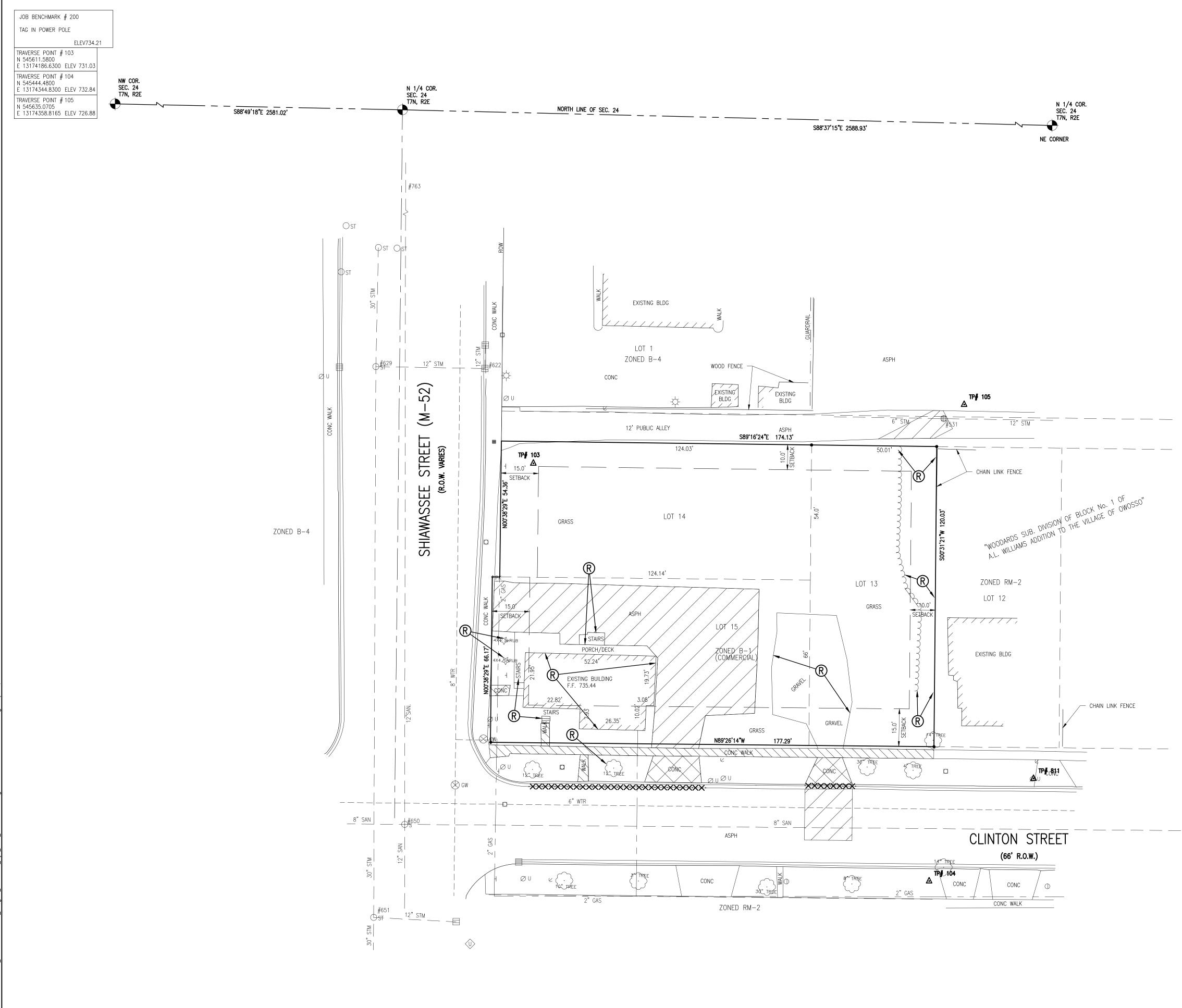
_	ARC	929 Bri Saginaw, 9) 393-42	dgeview \$ Michigar	South 1 48604 34) 522-6427
REVISIONS:		04-28-16 PLAN REVIEW AND PERMITTING		
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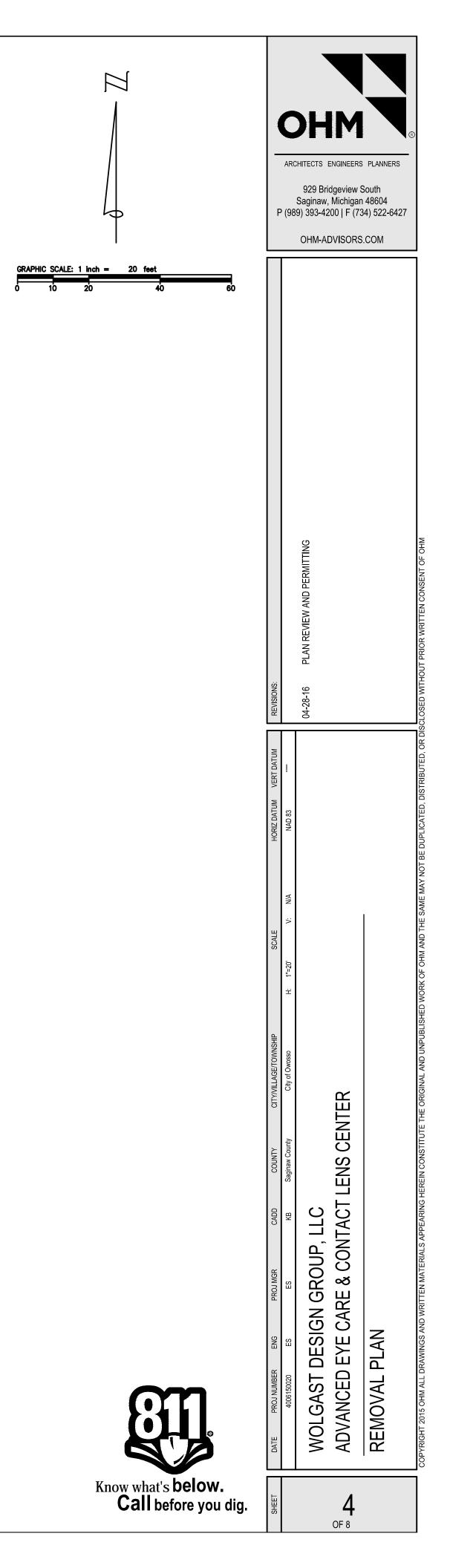
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EXISTING STORM SEWER ROUND CATCH BASIN #531 RIM = 726.50 12" PVC E INV 723.85 6" PVC W INV 724.20 STORM MH #622 RIM = 729.58 12" RCP N INV 724.43 12" RCP W INV 724.53 STORM MH #629 RIM = 729.83 12" RCP E INV 724.08 30" RCP N INV 726.40 30" RCP N INV 726.40 30" RCP S INV 726.40 12" RCP E INV 727.80	EXISTING SANITARY SEWER SANITARY MH. #650 RIM = 733.48 12" N INV 720.38 12" S INV 720.43 12" W INV 720.33 8" E INV 721.38 SANITARY MH. #763 RIM = 729.03 12" N INV 714.83 12" S INV 715.83 SANITARY MH. #764 RIM = 731.05 8" W INV 724.65 (FULL OF DEBRIS	ENG PROJ MGR	ES ES KB Saginaw County	WOLGAST DESIGN GROUP, LLC ADVANCED EYE CARE & CONTACT LENS CENTER	TOPOGRAPHIC SURVEY	ער מעניים און אינטער אין אין אינטער אין אינערע אין אינער אינער אינער אינער אינער אינער אינערערער אין אינערערער
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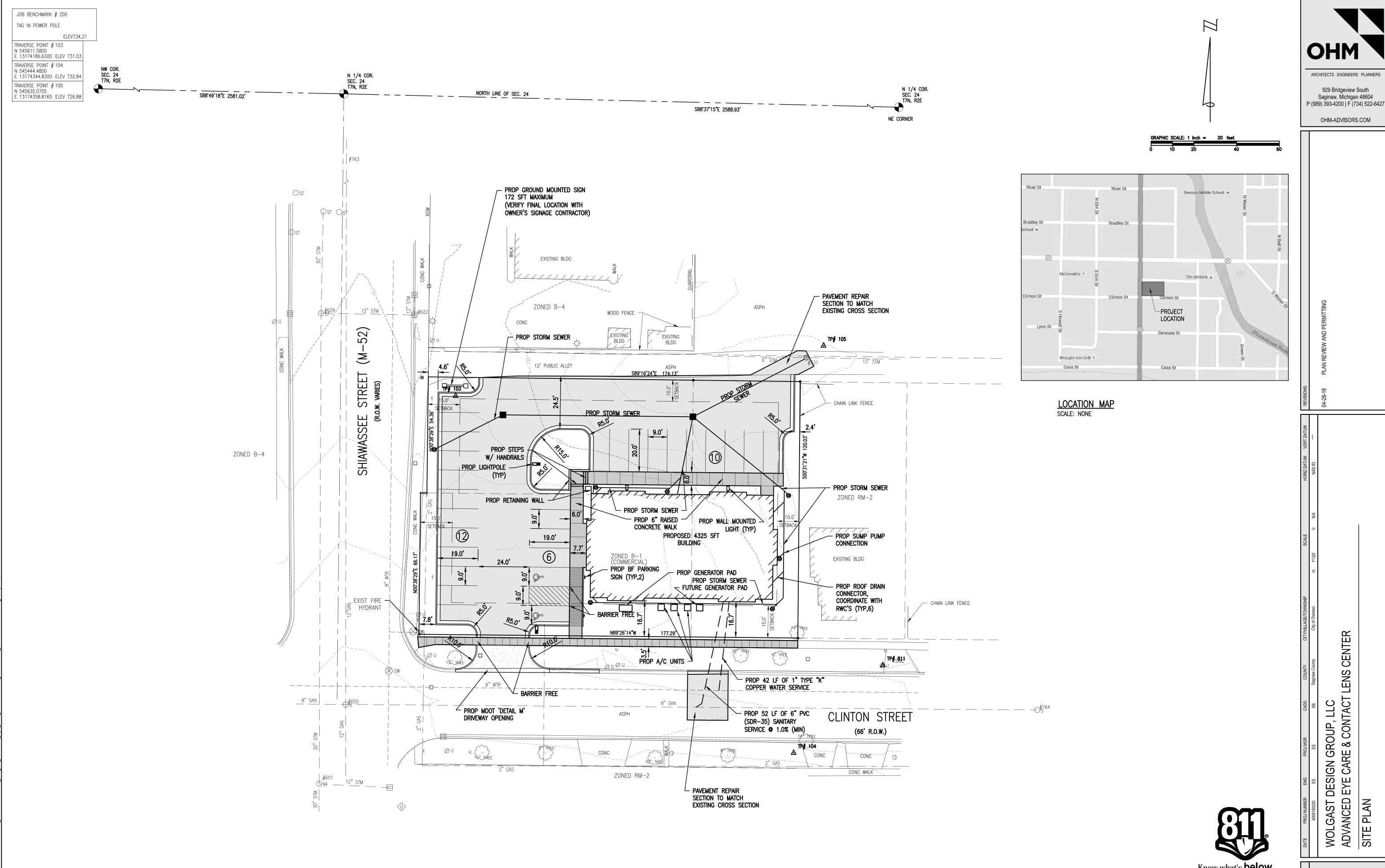
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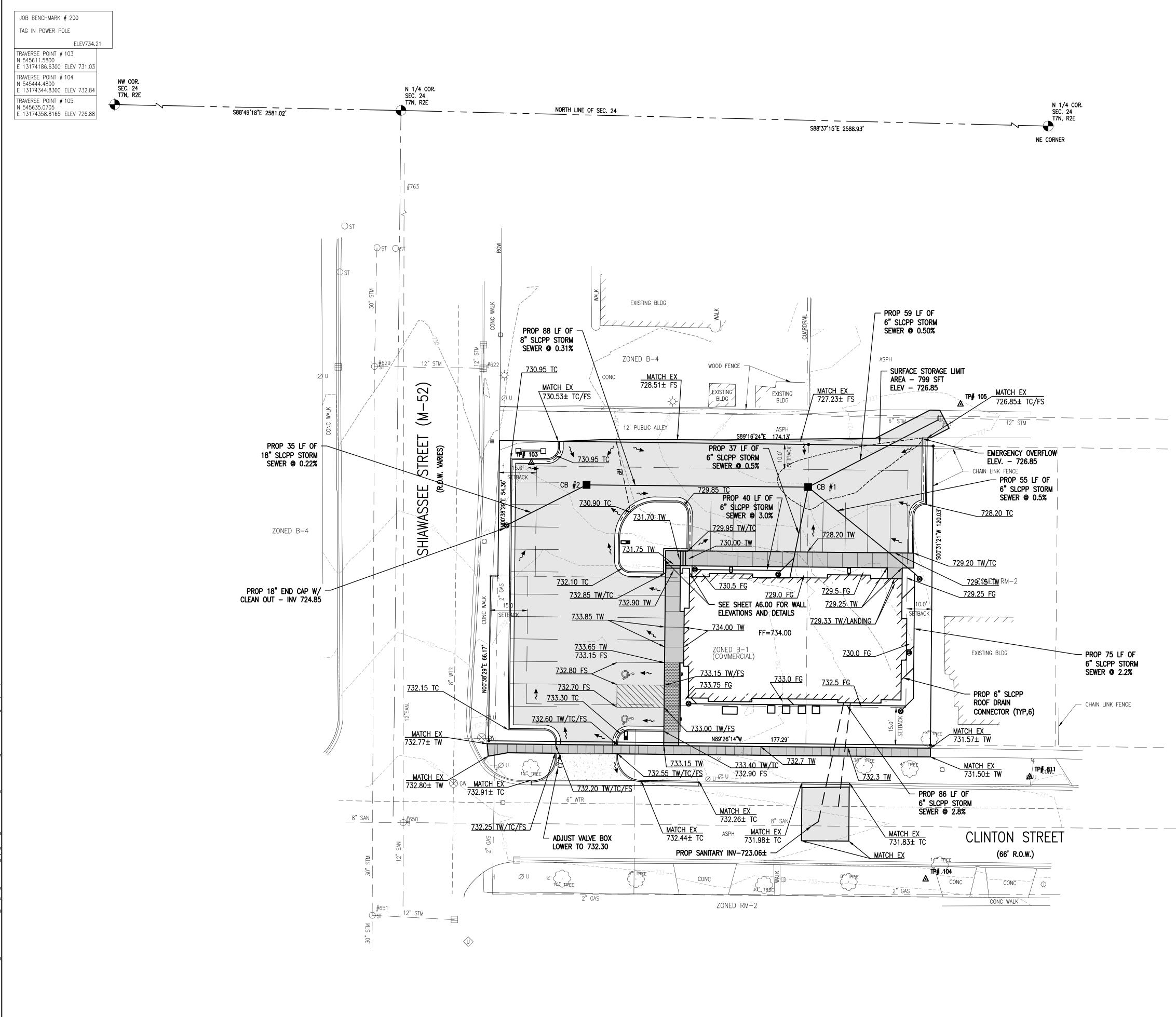
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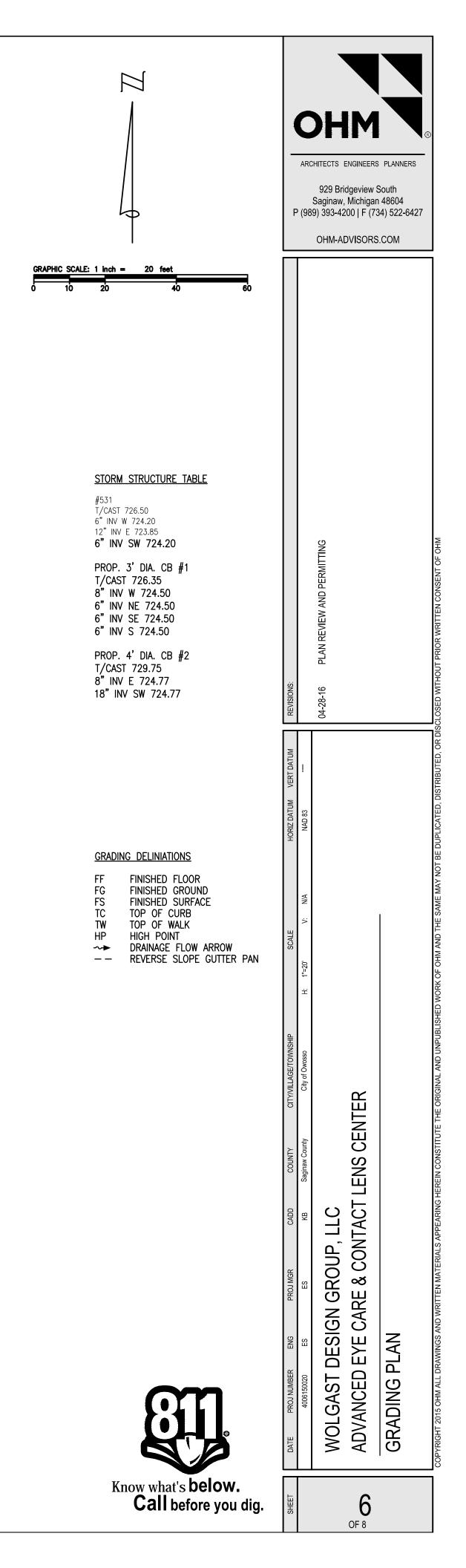
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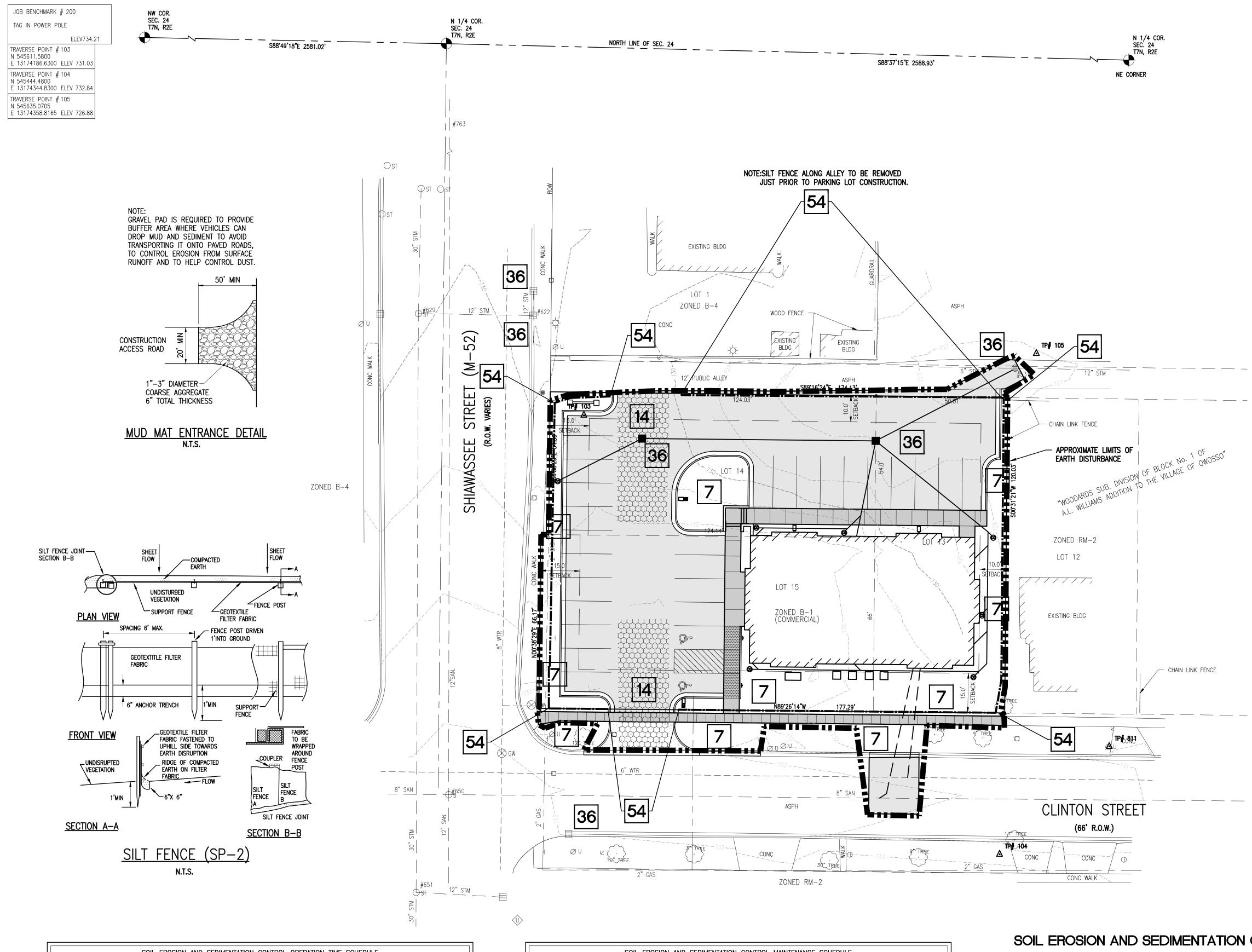
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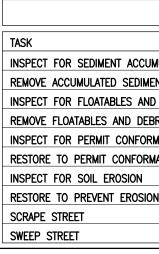
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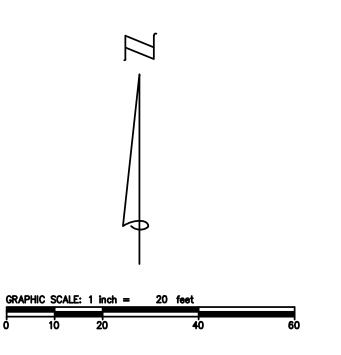
CONSTRUCTION SEQUENCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DE
TEMPORARY EROSION CONTROL MEASURES												
SITE DEMOLITION												
STRIP ANY TOPSOIL / ROUGH GRADE												
INSTALL STORM SEWER SYSTEM												
BUILDING CONSTRUCTION												
SITE CONSTRUCTION & PAVEMENT												
PERMANENT EROSION CONTROL MEASURES												
LANDSCAPING/FINISH GRADING												



	FREQUENCY	TRACKING MAT	SILT FENCE	INLET FILTERS	STORM SEWER	CB SUMPS	VEGETATION
MULATION	WEEKLY	x	X	X	x	X	
ENT	AS NEEDED		X	X	x	Х	
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SOIL EROSION AND SEDIMENTATION CONTROL MEASURES

7	Hydro seeding	Effective on large areas. Mulch tacking agent used to provide immediat Should include prepared topsoil bed.
14	Aggregate Cover	Tracking Mat — replenish stone as required due 1" 1"—3" crushed concrete 8" thick on geo—fabric. Temporary measure, remove after completion of
36	Catch Basin, Drain Inlet	Collects high velocity concentrated runoff. Use filter cloth over inlet. (Alt. Silt-Sak tm.)
54	Silt Fence	Filters and detains runoff. Shown on plan as



SESC GENERAL NOTES

- 1. REFER TO LANDSCAPE PLAN FOR DETAILED INFORMATION ON VEGETATIVE STABILIZATION AND MULCHING.
- 2. SOIL CONDITIONS : CROSIER-WILLIAMSTOWN LOAMS, 2 TO 6 PERCENT SLOPES SOURCE: websoilsurvey.nrcs.usda.gov
- 3. AREA OF DISTURBED EARTH IS APPROXIMATELY 0.55 ACRES.
- 4. NEAREST OPEN WATER IS THE SHIAWASSEE RIVER APPROXIMATELY 560 FEET EAST OF THE SITE.

MAINTENANCE NOTES

- 1. GRAVEL ACCESS DRIVE
- PROPER MAINTENANCE MAY INCLUDE ADDING ADDITIONAL LAYERS OF STONE WHEN THE ORIGINAL STONE BECOMES COVERED WITH MUD. AFTER EACH STORM EVENT, INSPECT THE ROAD FOR EROSION AND MAKE ANY NECESSARY REPAIRS. ALL SEDIMENT DROPPED OR ERODED ONTO PUBLIC RIGHT-OF-WAY SHOULD BE REMOVED IMMEDIATELY BY SWEEPING.
- 2. SOIL STOCKPILES PERIODIC INSPECTIONS SHOULD BE DONE TO ENSURE EXCESSIVE EROSION HAS NOT OCCURRED. IF RUNOFF OR WIND EROSION HAS OCCURRED, REDUCE THE SIDE SLOPES OF THE SPOIL PILE, OR RE-STABILIZE THE STOCKPILE BY PROVIDING TEMPORARY SEEDING. WHEN FILTER FENCING IS USED AROUND A SPOIL PILE, PERIODIC CHECKS SHOULD BE MADE TO ENSURE THAT PIPING HAS NOT OCCURRED UNDER THE FENCING, AND TO ENSURE THE FENCE HAS NOT COLLAPSED DUE TO SOIL SLIPPAGE OR ACCESS BY CONSTRUCTION EQUIPMENT. REPAIR ANY DAMAGED FENCING IMMEDIATELY. BERMS AT THE BASE OF THE SPOIL PILE WHICH BECOME DAMAGED SHOULD BE REPLACED.
- 3. DUST CONTROL TO PREVENT DUST FROM BECOMING A PUBLIC NUISANCE AND CAUSING OFF-SITE DAMAGES, DUST CONTROL SHOULD BE ONGOING DURING EARTH CHANGE ACTIVITIES.
- 4. SILT FENCE

SILT FENCE SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. SILT FENCES SHOULD BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND SEVERAL TIMES DURING PROLONGED RAINFALLS. IF THE FENCE IS SAGGING OR THE SOIL HAS REACHED ONE HALF (1/2) THE HEIGHT OF THE FABRIC, THE SOIL BEHIND THE FABRIC MUST BE REMOVED AND DISPOSED OF IN A STABLE UPLAND SITE. THE SOIL CAN BE ADDED TO THE SOIL STOCKPILE. IF THE FABRIC IS BEING UNDERCUT (I.E. IF WATER IS SEEPING UNDER THE FENCE), THE FENCE SHOULD BE REMOVED AND REINSTALLED FOLLOWING THE PROCEDURES GIVEN ABOVE. FABRIC WHICH DECOMPOSES OR OTHERWISE BECOMES INEFFECTIVE SHOULD BE REMOVED AND REPLACED WITH NEW FILTER FABRIC IMMEDIATELY. SILT FENCES SHOULD BE REMOVED ONCE VEGETATION IS WELL ESTABLISHED AND THE UP-SLOPE AREA IS FULLY STABILIZED.

5. INLET FILTERS

PERIODIC INSPECTIONS SHOULD BE DONE TO ENSURE THAT THE INTEGRITY OF THE GEOTEXTILE FILTER IS MAINTAINED. THE FABRIC SHALL BE REMOVED AND REPLACED SHOULD IT BECOME SEDIMENT LADEN. THE INLET GEOTEXTILE FILTER SHALL BE REMOVED AFTER THE ESTABLISHMENT OF FINAL GRADE AND PRIOR TO PAVEMENT INSTALLATION.

- 6. SEEDING NEWLY SEEDED AREAS NEED TO BE INSPECTED FREQUENTLY FOR THE FIRST FEW MONTHS TO ENSURE THE GRASS IS GROWING. IF THE SEEDED AREA IS DAMAGED DUE TO RUNOFF, ADDITIONAL STORMWATER MEASURES MAY BE NEEDED. SPOT SEEDED CAN BE DONE ON SMALL AREAS TO FILL IN BARE SPOTS WHERE GRASS DIDN'T GROW PROPERLY.
- 7. MULCHING MULCHED AREAS SHOULD BE CHECKED FOLLOWING EACH RAIN TO ENSURE THE MULCH IS STAYING IN PLACE. ADDITIONAL TACKING MATERIALS OR NETTING MAY NEED TO BE APPLIED TO HOLD THE MULCH IN PLACE.
- 8. STREET MAINTENANCE

CONTRACTOR SHALL SCRAPE ALL PUBLIC ROADS AT LEAST ON A DAILY BASIS. IN ADDITION, CONTRACTOR SHALL PROVIDE SWEEPING OF PUBLIC ROADS AT LEAST ON A WEEKLY BASIS.

CONSTRUCTION SEQUENCE

1. PROVIDE EROSION CONTROL MEASURES THAT WILL BE USED AS PART OF THIS WORK. INSTALL ADDITIONAL MEASURES AS REQUIRED BY THESE DRAWINGS AND AS FIELD CONDITIONS DICTATE IN ACCORDANCE WITH CITY OF OWOSSO REQUIREMENTS.

- 2. SITE DEMOLITION.
- 3. IMPLEMENT TEMPORARY SOIL EROSION CONTROL MEASURES, INCLUDING SILT FENCE INSTALLATION AND GRAVEL ACCESS DRIVE.
- 4. STRIP TOPSOIL AND ROUGH SITE.
- 5. CONSTRUCT STORM SEWER SYSTEM COMPLETE. IMMEDIATELY INSTALL INLET FILTERS ON ALL CATCH BASINS.
- 6. BEGIN BUILDING CONSTRUCTION.
- 7. INSTALL ALL OTHER UTILITIES.
- 8. INSTALL PAVEMENT SECTION.
- 9. BEGIN PERMANENT AND TEMPORARY SEEDING AND MULCHING. ALL CUT AND FILL SLOPES SHALL HAVE PERMANENT STABILIZATION COMPLETED WITHIN 5 DAYS OF FINAL GRADE.
- 10. DAILY, OR AS REQUIRED, CONSTRUCT AND MAINTAIN TEMPORARY BERMS, DRAINS, SILT FENCE, SEDIMENT TRAPS, ETC. MULCH AND SEED AS REQUIRED.
- 11.FINISH GRADE, REDISTRIBUTE TOPSOIL AND ESTABLISH VEGETATION ON ALL DISTURBED GROUND AREAS.
- 12. CLEAN PAVEMENT AND STORM SEWERS OF ALL SEDIMENT.
- 13. REMOVE SOIL EROSION CONTROL MEASURES AFTER PERMANENT VEGETATION HAS BEEN ESTABLISHED. 14. INSTALL LANDSCAPING MATERIALS.
- 15.IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL SOIL EROSION CONTROL MEASURES ARE INSTALLED AND MAINTAINED.

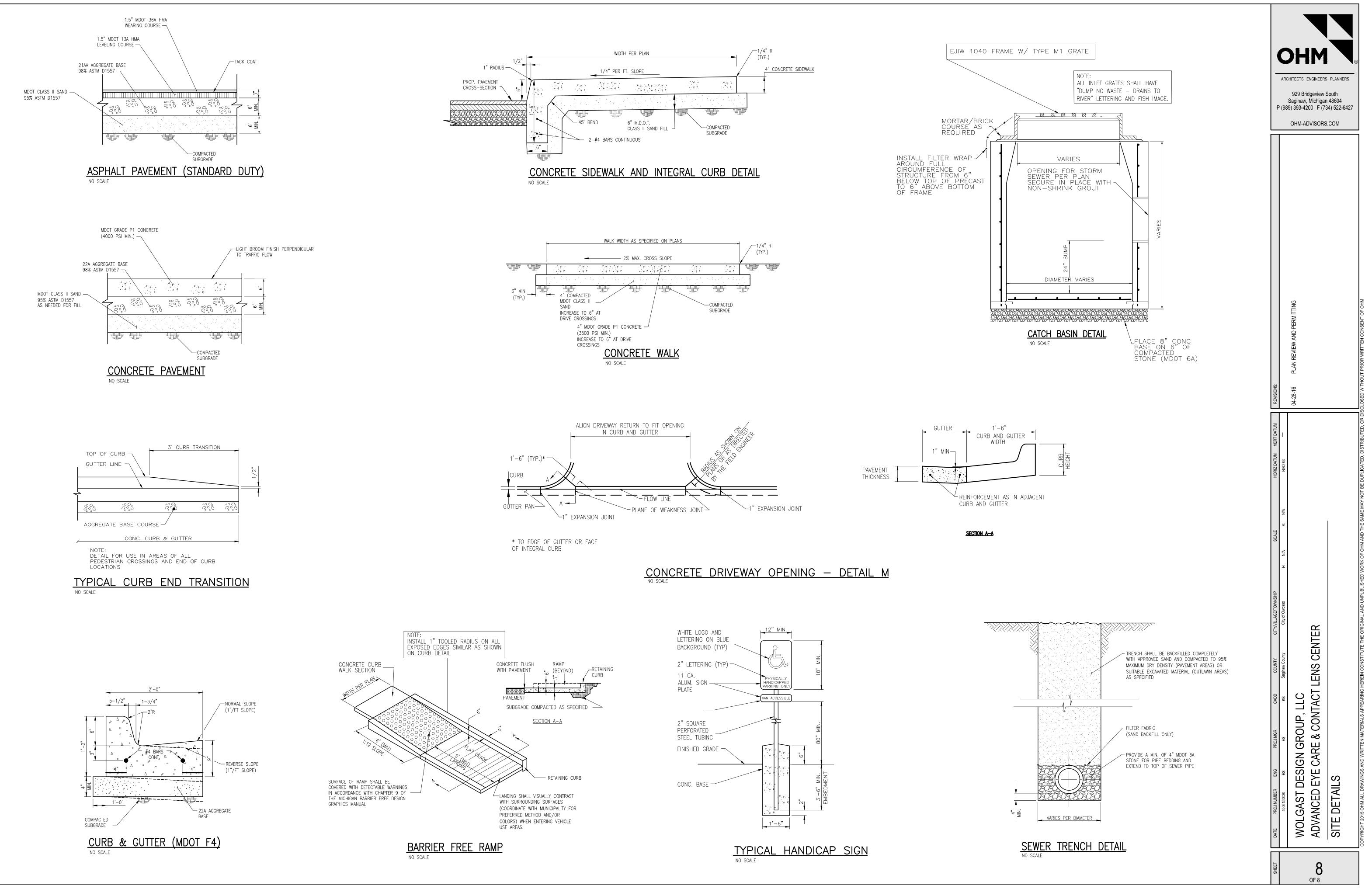
ate protection until gra	ss is rooted. PERMANENT MEASURE
e to rutting. c. 30' wide by 50' long. f construction.	Temporary measure
	TEMPORARY MEASURE
	TEMPORARY MEASURE

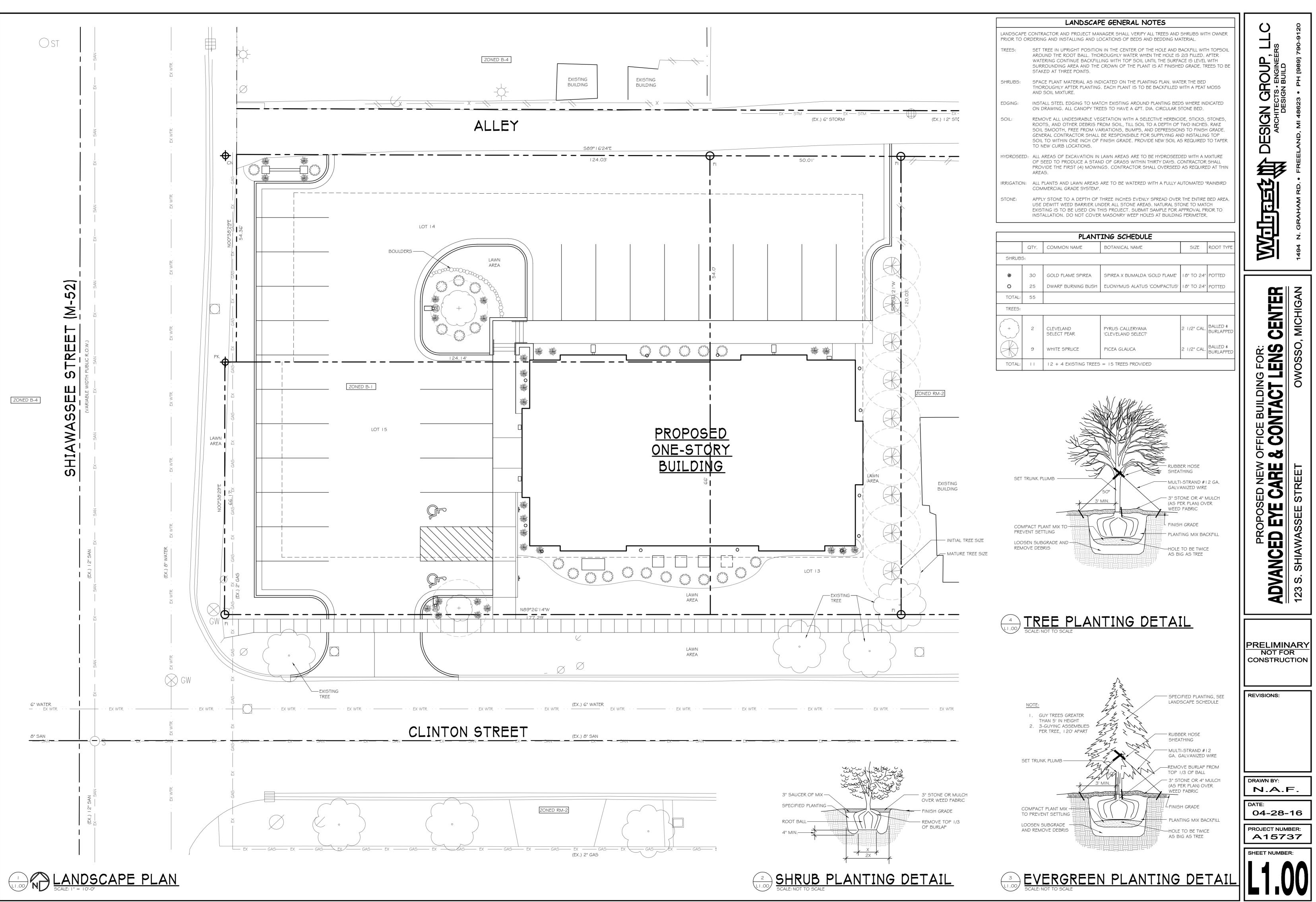


Know what's **below. Call before you dig**.

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		PLAN REVIEW AND PERMITTING			IT PPIOD WPITTEN CONSENT OF OLM
REVISIONS:		04-28-16			
HORIZ DATUM VERT DATUM	NAD 83				
SCALE	H: 1"=20' V: N/A				I DRAWINGS AND WRITTEN MATERIALS ABRARING HEREIN CONSTITUTE THE ORIGINAL AND INRURI READ WORK OF OHM AND THE SAME MAY NOT BE PLIRE FOR DRIVEN OF OHM AND THE SAME MAY NOT BE PLIRE FOR DRIVEN OF OHM AND THE READ REPORTED FOR THE OFFICE OF OHM AND THE SAME MAY NOT BE PLIRE FOR DRIVEN OF OHM
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COUNTY	Saginaw County		LENS CEN	ION CON	
CADD	KB	, LLC	VTACT	ENTAT	
PROJ MGR	ES	WOLGAST DESIGN GROUP, LLC	ADVANCED EYE CARE & CONTACT LENS CENTER	ND SEDIM	
SNE ENG	ES	DESIG	EYEC		
PROJ NUMBER	4006150020	_GAST	ANCED	- EROS	
DATE		MOL	ADV,	SOIL	

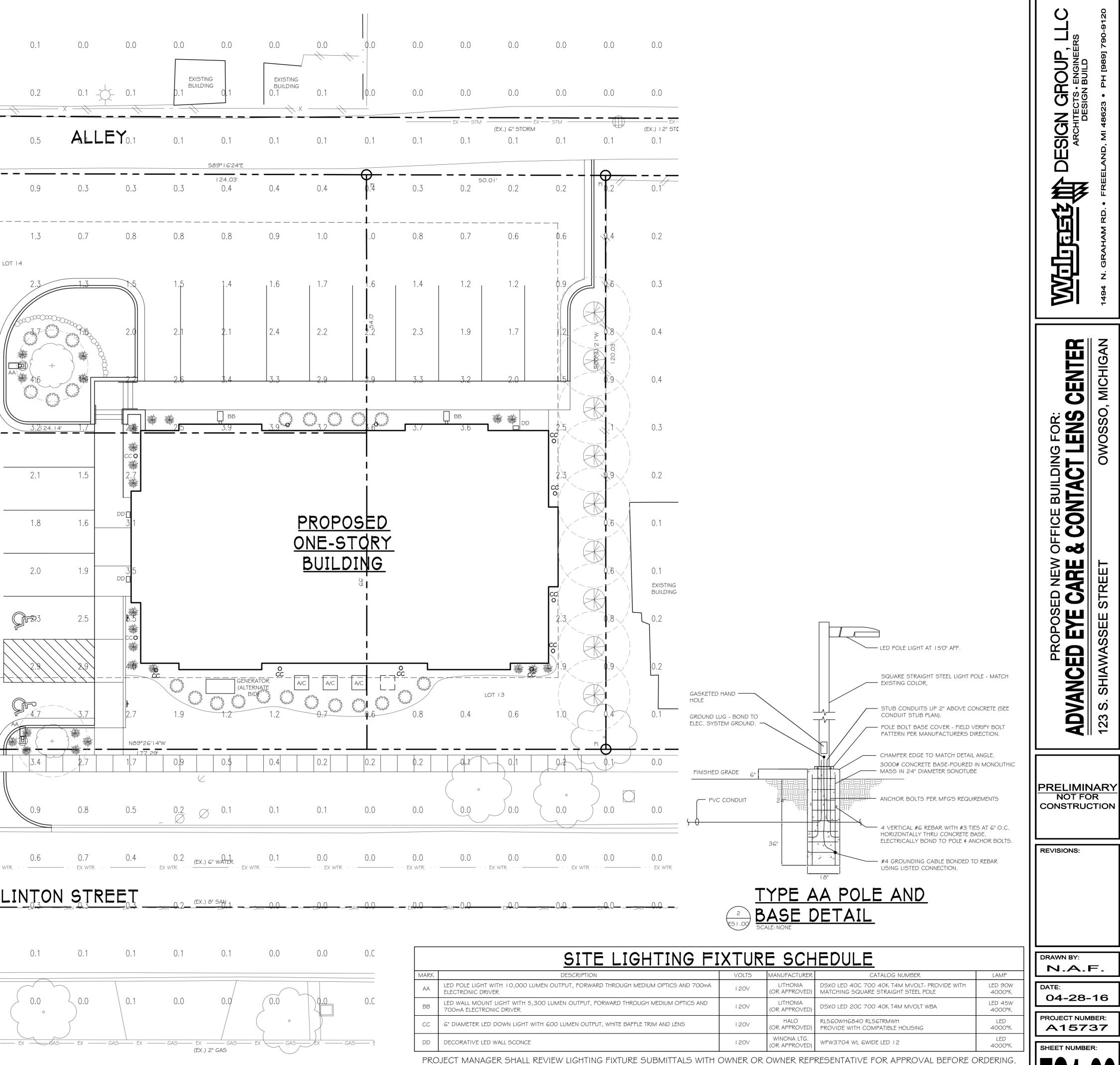
OF 8





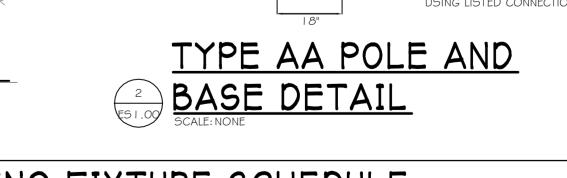
SITE ELECTRICAL/PHOTOMETRIC PLAN
SCALE: = O'-O''

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COPYRIGHT 2016	WOLGAST DESIGN GROUP, LL

<u>LIGHTING FI</u>			EDULE	
	VOLTS	MANUFACTURER	CATALOG NUMBER	LAMP
THROUGH MEDIUM OPTICS AND 700mA	120V	LITHONIA (OR APPROVED)	DSXO LED 40C 700 40K T4M MVOLT- PROVIDE WITH MATCHING SQUARE STRAIGHT STEEL POLE	LED 90W 4000°K
WARD THROUGH MEDIUM OPTICS AND	120V	LITHONIA (OR APPROVED)	DSXO LED 20C 700 40K T4M MVOLT WBA	LED 45W 4000°K
WHITE BAFFLE TRIM AND LENS	120V	HALO (OR APPROVED)	RL560WH6840 RL56TRMWH PROVIDE WITH COMPATIBLE HOUSING	LED 4000°K
	1 20V	WINONA LTG. (OR APPROVED)	WFW3704 WL GWIDE LED 12	LED 4000°K

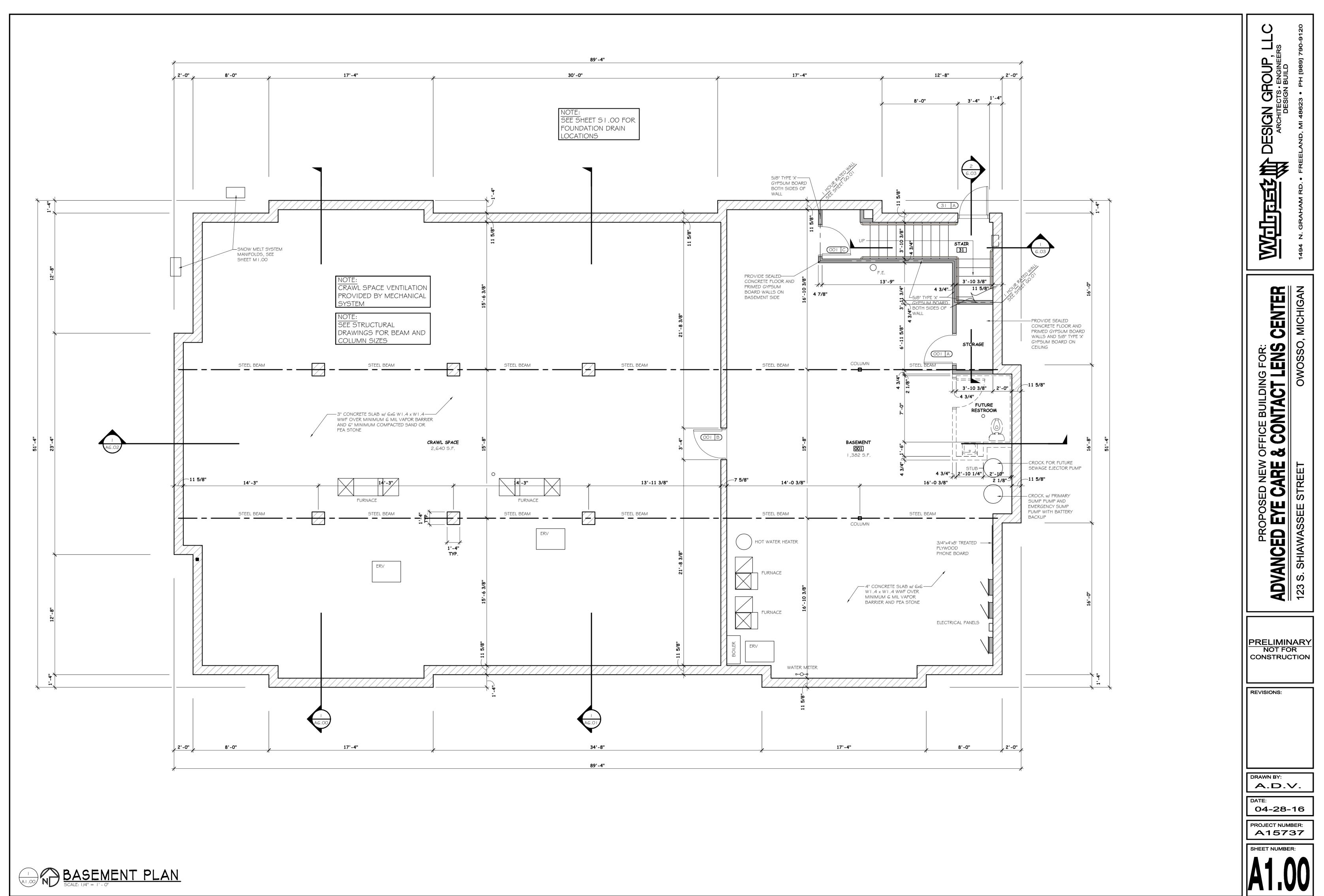


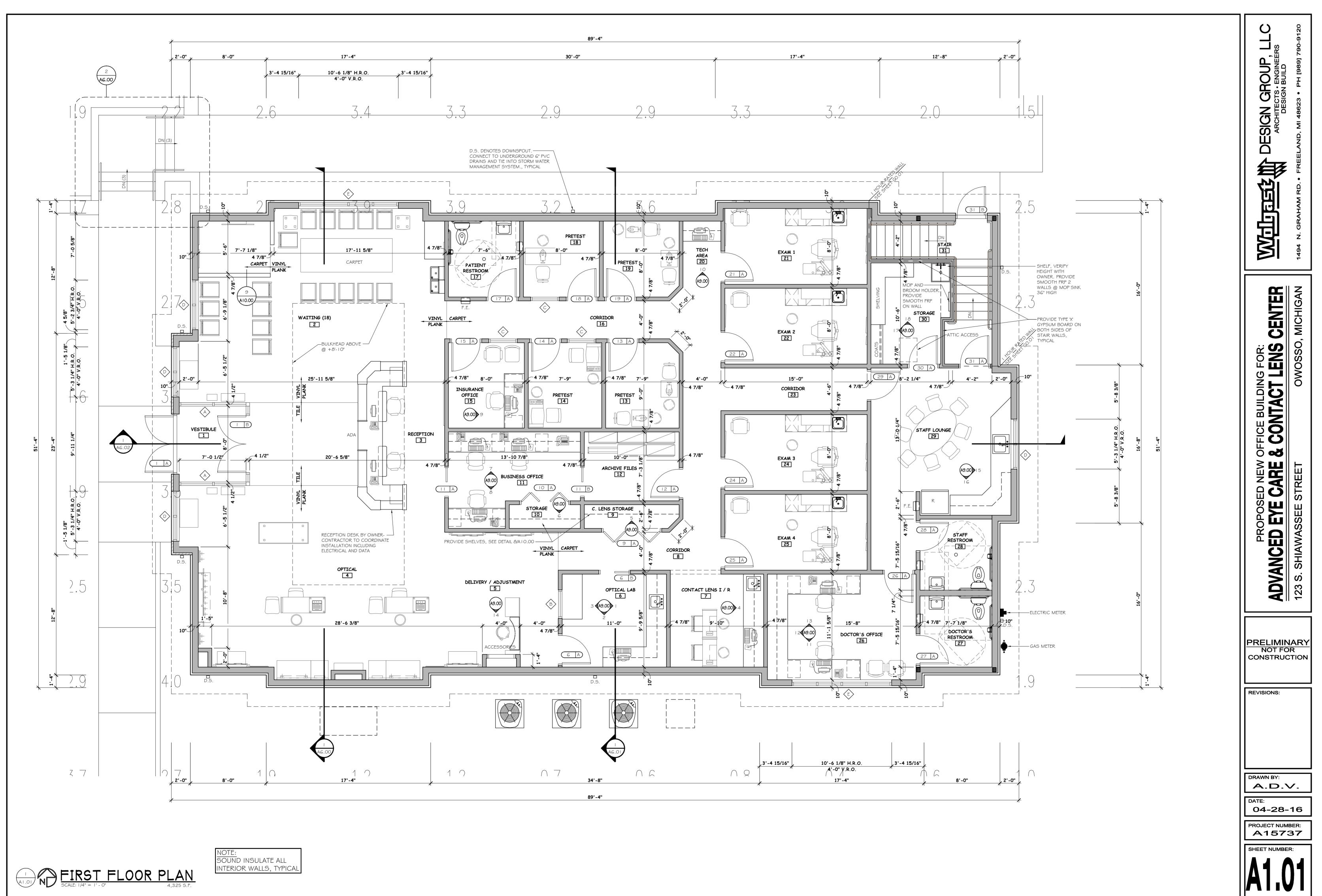
PPOSED NEW OFFICE BUILDING FOR: EYE CARE & CONTACT LENS

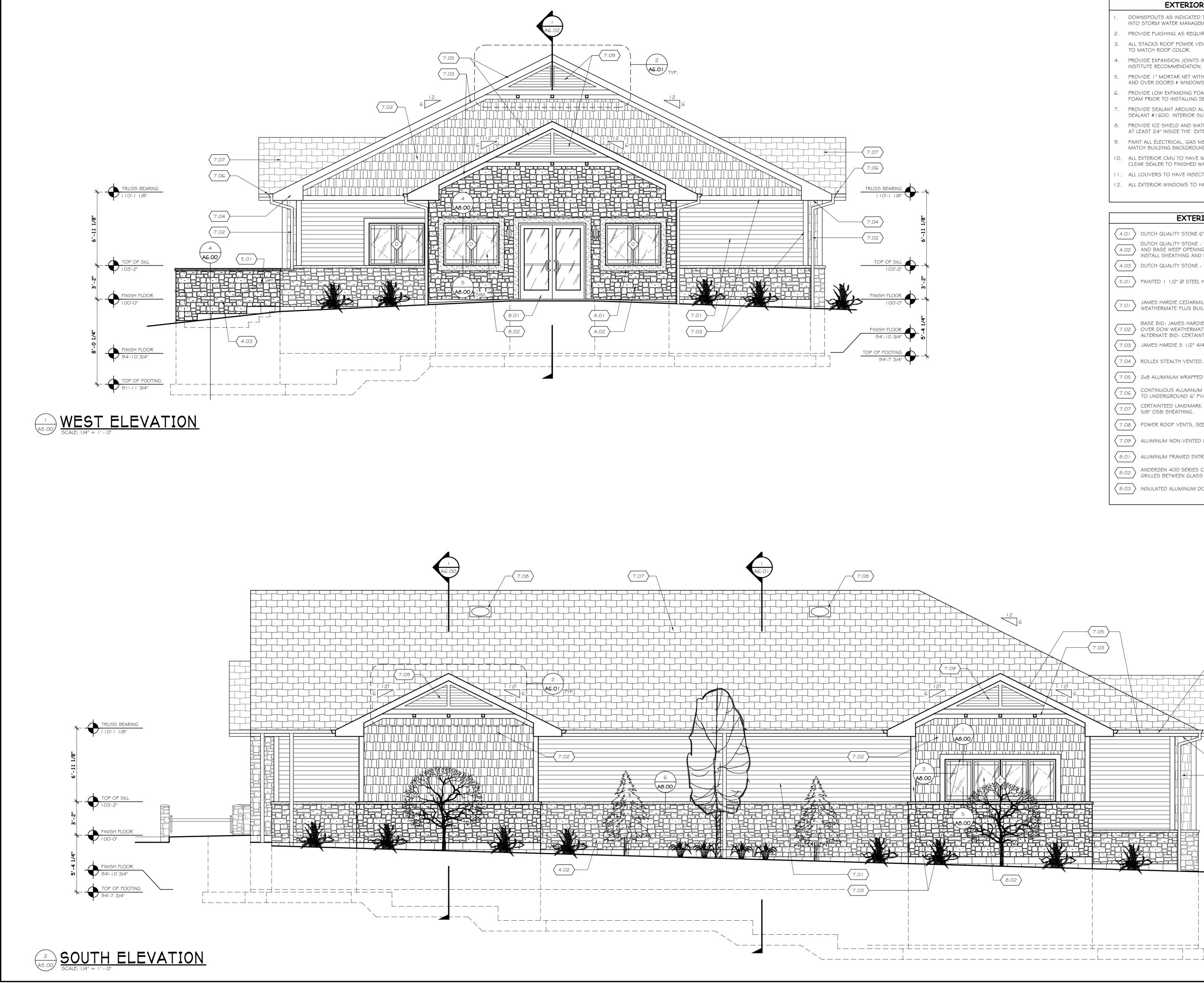
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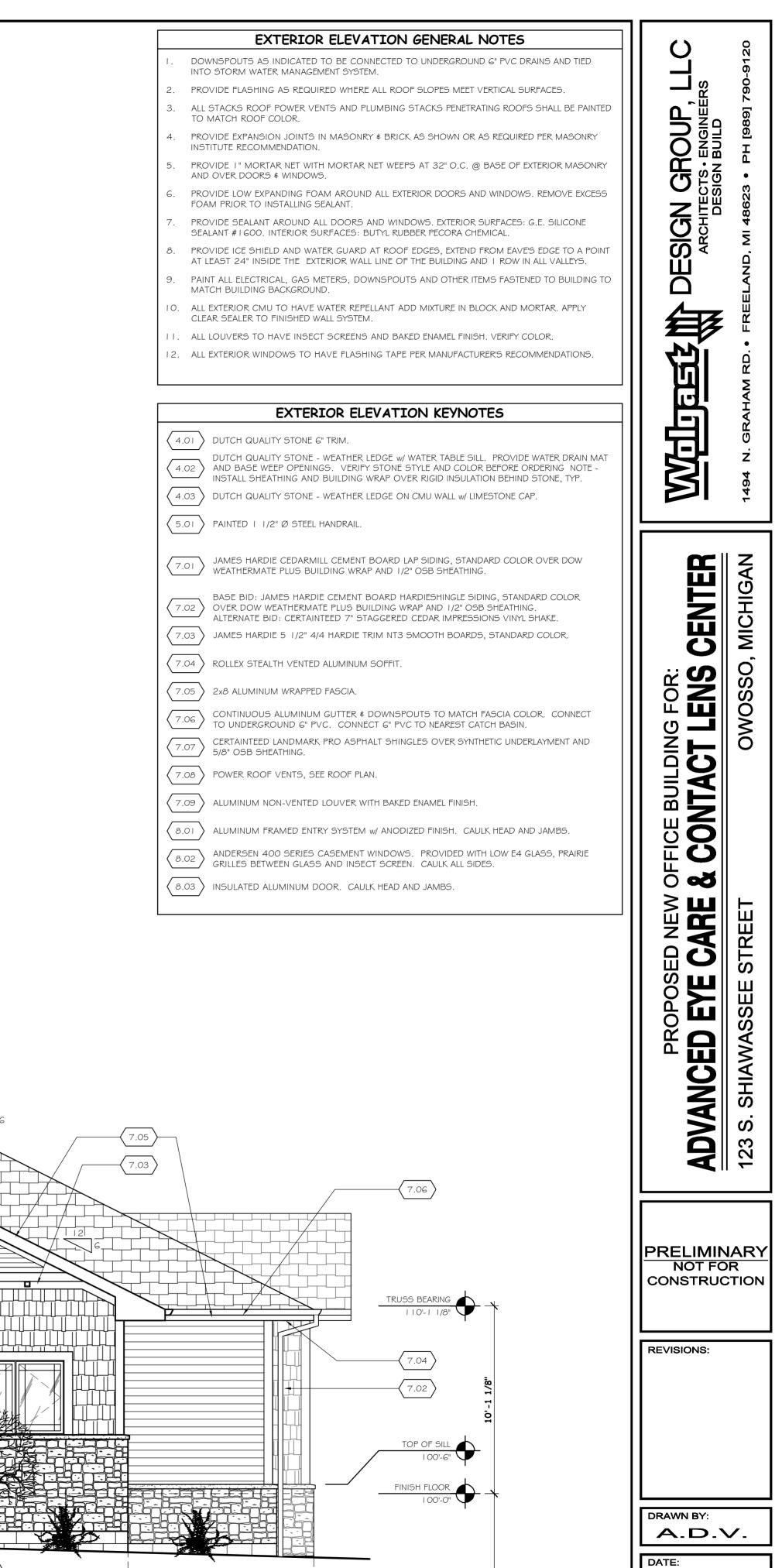
SHIAWASSEE

ADVANCED | 123 S. SHIAWAS









FINISH FLOOR 89'-7 3/4

89'-3 3/4

TOP OF FOOTING

- 8.02

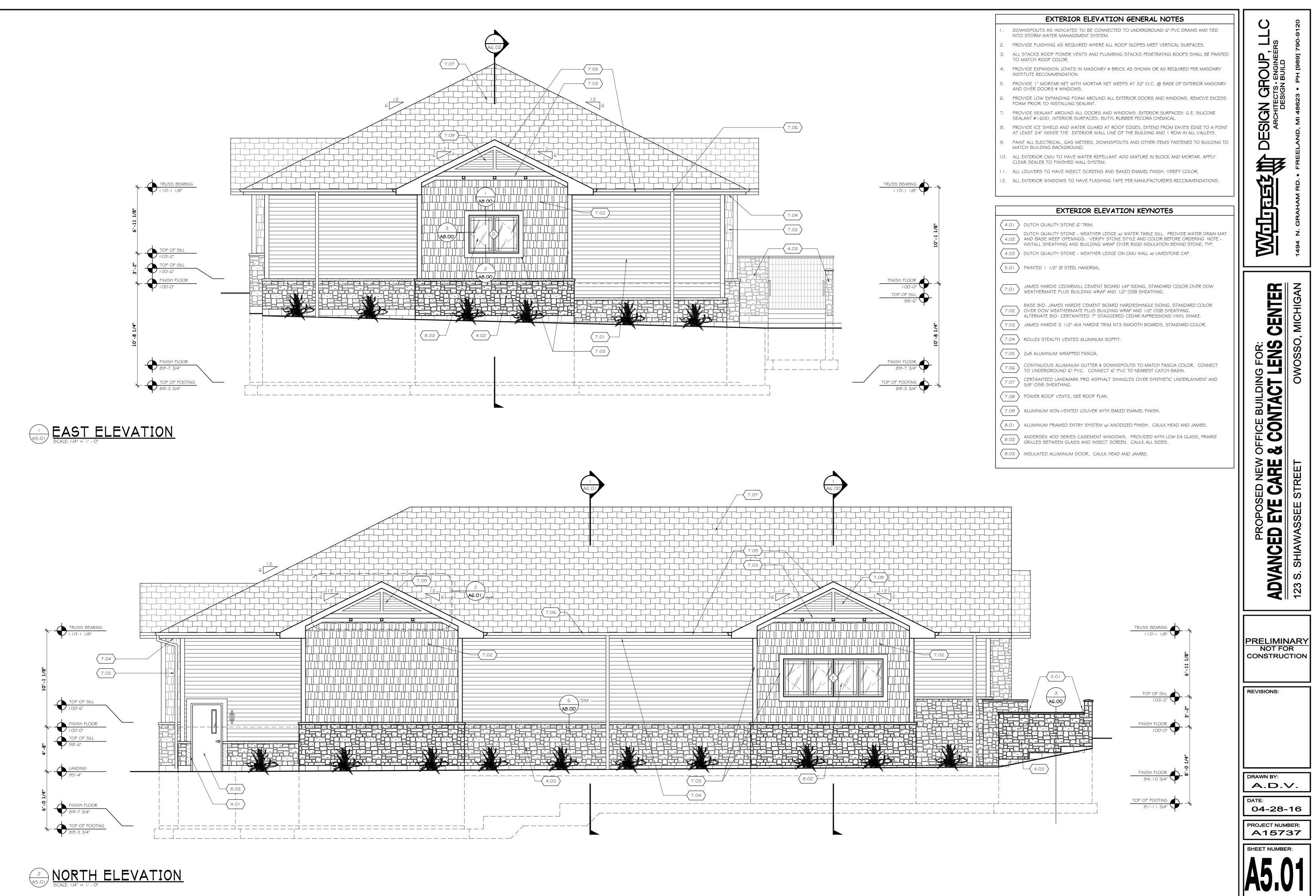
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04-28-16

PROJECT NUMBER:

A15737

SHEET NUMBER:



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OHM	

Project:	Advanced Eye Care-Owosso		
Project #:	4006-15-0020		
Project Location:	City of Owosso		
Date:	4/6/2016		
Calculated By:	ERS		
Checked By:			

DOT DETENTION CALCULATIONS

Trunkline	Inkline Permit No Location Description		
		NE Corner of M-52 & Clinton St.	-
Calculations done by (signature)		Date	
1.1.2		4/6/2016	

1. Determination of EXISTING runoff into right of way (Rational Method)

Gross Area o	of Development		21144 S.F.
Total Existing	g area draining int	o ROW	21144 S.F.
Grass (S.F	.*0.20 = CA)		and the second se
S.F.	14240 CA	2848	
Pavement	(S.F.*0.80 = CA)		
S.F.	4186 CA	3348.8	
Building (S	6.F.*0.80 = CA)		
S.F.	1349 CA	1079.2	
Other (S.F.	*0.70 = CA)		
S.F.	1369 CA	958.3	
Total Area	Total	CA	
S.F.	21144 CA	8234.30	
Wt. C) = CA	/ Total Area	0.39	
Qallow = CA	I Use 10 year st	torm to determine	from charts for Tc = ((2Ln)/(3√S))^0.467
vhere L =	140 FT. (le	ength of flow)	where n = 0.2 for grass
where S =	0.0507 FT./F	T. (slope of parcel)	
Tc =	7.87	I ₁₀ = 4,4	from charts

P:\4000_4100\4006150020_Wolgast_Advanced_Eye_Care_Owosso_Civil\Dot-deten1.xlsx Sheet - Detention

2. Determination of PROPOSED runoff area into right of way

Total propo	sed area drai	ning into rig	ht of way =
Grass (S.	F.*0.20 = CA)		엄마카요니 팬
S.F.	4689	CA	937.8
Pavement	(S.F.*0.80 =	CA)	
S.F.	12130	CA	9704
Building ((S.F.*0.80 = C	A)	
S.F.	4325	CA	3460
Other (S.I	*Impervious	s Factor =	CA)
S.F.	protector of	CA	
Total Area	1111	Total CA	
S.F.	21144	CA	14101.80
(Wt. C) = C	A/ Total Area		0.67

3. Determination of Metering Line

Overflow evevation in parking lot minus 1/3 depth of retention =	, i i	726.85
Storm sewer main top elevation at retention outlet (closed system) =		724.85
Discharge pipe top elevation at outlet (open ditch) =		N/A
Length of metering line =	F.T.	59
Manning's formula for nine disbarge $\Omega = CE(S^{1/2})$	· · · · ·	

21144

S.F.

Manning's formula for pipe disharge, $Q = CF(S^{1/2})$

Hydraulic Gradient = S = (Overflow elev. - Outlet elev.)/ length of meter line

Closed system 0.034

	Conveyance Factors (CF) = 1.486/n * A(R^(2/3))							
	Diameter (inches)	Smooth PVC	Concrete	Cast Iron	Corrugated Steel			
	Manning' Coeff. "n'	1111111	0.013	0.015	0.021			
	4		1.9	1.65	1.18			
	6	7.3	5.61	4.86	3.47			
	8	15.8	12.09	9.82	7.48			
	10	28.4	21.88	16.75	13.55			
	12	46.4	25.64	25.73	22.06			
	15	84.1	64.7	46.65	40.05			
Metering Pipe Size & Type		_6" PVC	CF = 7.3					
Qdischarge = CF * S^.5 1.28		^.5 1.28	CFS	Per City: Site to be restricted to 6" Outlet				

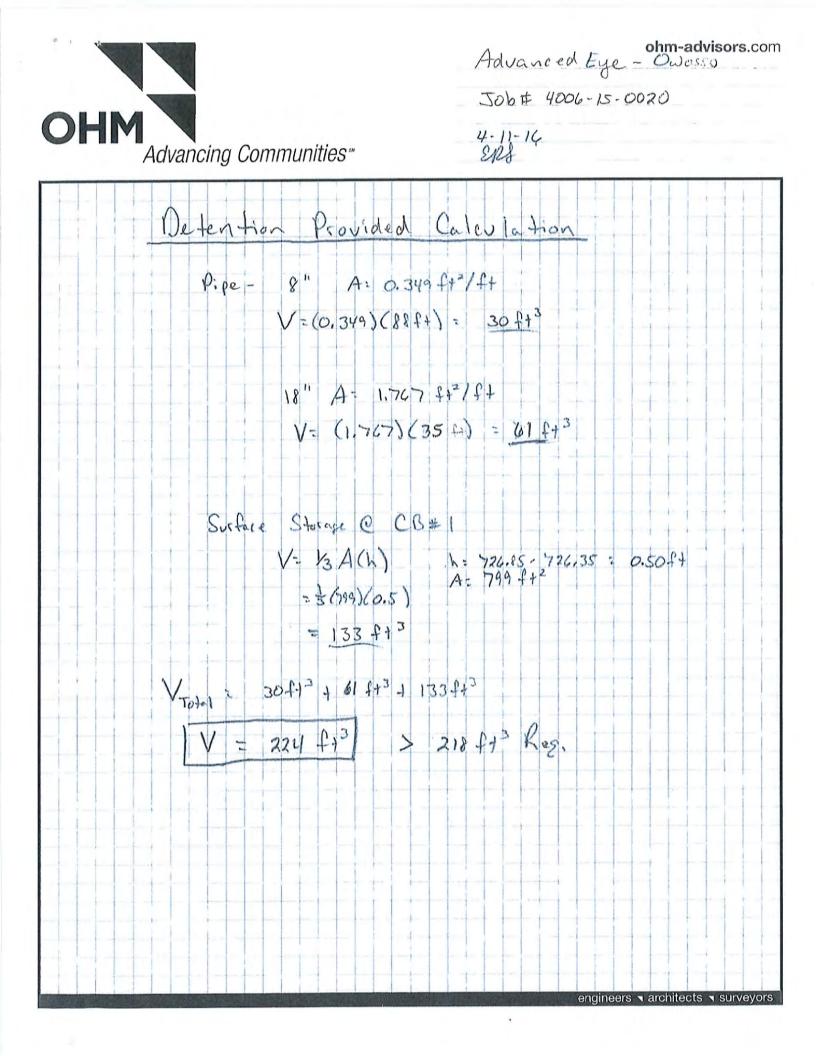
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TC (min)	i ₂₅ (in/hr)	C _w A (A in acres)	Q _{in}	Q _{out} = Q _{allow}	Q _{in} - Q _{out}	$(Q_{in} - Q_{out}) \times TC \times 60$ (ft ³)
10	5.16	0.33	1.70	1.34	0.36	218
20	3.72	0.33	1.23	1.28	-0.05	-63
30	3.02	0.33	1.00	1.34	-0.34	-618
40	2.48	0.33	0.82	1.34	-0.52	-1252
50	2.15	0.33	0.71	1.34	-0.63	-1892
60	1.92	0.33	0.63	1.34	-0.71	-2543
90	1.43	0.33	0.47	1.34	-0.87	-4688
120	1.19	0.33	0.39	1.34	-0.95	-6821
180	0.87	0.33	0.29	1.34	-1.05	-11371
360	0.51	0.33	0.17	1.34	-1.17	-25309
720	0.30	0.33	0.10	1.34	-1.24	-53611
1080	0.21	0.33	0.07	1.34	-1.27	-82341

DESIGN RETENTION VOLUME =

VOLUME OF PROPOSED RETENTION BASIN =

218 Cu.Ft. 224 Cu.Ft.



CITY OF OWOSSO 301 W MAIN ST OWOSSO, MI 48867 Phone : (989) 725-0599

Received From: WOLGAST

Date: 04/29/2016 Time: 9:10:45 AM Receipt: 386209 *** REPRINT *** Cashier: AKSmith Workstation: 02 Drawer: 1

SITE PLAN REVIEW

٩,

ITEM REFERENCE	AMOUNT
ZONING ZONING VARIANCE, APPLICATIO	DN FEE,MA
	\$150.00
TOTAL	\$150.00
CHECKS 241589 Total Tendered:	\$150.00 \$150.00
Change:	\$0.00