### GENOA CHARTER TOWNSHIP PLANNING COMMISSION PUBLIC HEARING MONDAY, JUNE 13, 2016 6:30 P.M. AGENDA

### **CALL TO ORDER:**

### PLEDGE OF ALLEGIANCE:

### **APPROVAL OF AGENDA:**

### **CALL TO THE PUBLIC:**

(Note: The Board reserves the right to not begin new business after 10:00 p.m.)

**OPEN PUBLIC HEARING #1...** Review of special use applications, impact assessment and site plan for proposed 9,200 square feet contractor's office, warehouse and storage yard. Special land use approvals are requested for outdoor storage, storage of hazardous materials, and grading activities within 25-foot natural features setback. The property is located on the east side of Victory Drive, south of Grand River Avenue on vacant parcel# 11-05-303-025. The request is petitioned by Seaside Seawalls.

### Planning Commission disposition of petition:

- A. Recommendation of Special Use Application
- B. Recommendation of Impact Assessment (5-25-16)
- C. Recommendation of Site Plan (5-25-16)

**OPEN PUBLIC HEARING #2...**Review of site plan and impact assessment for a proposed 16,053 sq. ft. addition to an existing industrial building known as Michigan Rod Products, Inc. which is located at 1326 Grand Oaks Drive, Howell. The request is petitioned by Asselin, McLane Architectural Group, LLC.

### Planning Commission disposition of petition:

- A. Recommendation of Impact Assessment (3-29-16)
- B. Disposition of Site Plan (5-25-16)

### **ADMINISTRATIVE BUSINESS:**

- Staff Report
- Approval of May 9, 2016 Planning Commission meeting minutes
- Member discussion
- Adjournment



# **GENOA CHARTER TOWNSHIP Application for Site Plan Review**

### TO THE GENOA TOWNSHIP PLANNING COMMISSION AND TOWNSHIP BOARD:

APPLICANT NAME & ADDRESS: Seaside Seawalls, LLC
If applicant is not the owner, a letter of Authorization from Property Owner is needed
OWNER'S NAME & ADDRESS: Aaron Wallace, 9868 East Grand River, Suites 110-225, Brighton, MI 48116
SITE ADDRESS: Victory Drive, Howell, MI 48843 PARCEL #(s): 4711-05-303-025
APPLICANT PHONE: ( 248 ) 207-1984 OWNER PHONE: ( 248 ) 207-1984
APPLICANT PHONE: ( 248 ) 207-1984  OWNER EMAIL:  AARON@SEASIDESEAWALLS.COM
LOCATION AND BRIEF DESCRIPTION OF SITE:  The site is located on the east side of Vicotry Drive, approximately
1,625 feet southwest of the E. Grand River Ave. intersection. The property has a total area of 5.85 AC and is currently undeveloped.
The subject property and adjacent properties are all zoned within the Industrial district, with the subject property having
approximately 660 feet of frontage along Victory Dr.
BRIEF STATEMENT OF PROPOSED USE:  The proposed use for the property is to store and maintain
construction equipment.
THE FOLLOWING BUILDINGS ARE PROPOSED: Seaside Seawalls, LLC - 9,200 SF
I HEREBY CERTIFY THAT ALL INFORMATION AND DATA ATTACHED TO AND MADE PART OF THIS APPLICATION IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF.
BY:
ADDRESS:  AARON WALLACE, 9868 E. GRAND RIVER, SUITES 110-225, BRIGHTON, MI 48116

Contact Information - Review Letters and Correspondence shall be forwarded to the following:							
1.) Brent LaVanway of Boss Engineering at brentl@bosseng.com  Business Affiliation E-mail Address							
FEE EXCEEDANCE AGREEMENT							

# As stated on the site plan review fee schedule, all site plans are allocated two (2) consultant reviews and one (1) Planning Commission meeting. If additional reviews or meetings are necessary, the applicant will be required to pay the actual incurred costs for the additional reviews. If applicable, additional review fee payment will be required concurrent with submittal to the Township Board. By signing below, applicant indicates agreement and full understanding of this policy. SIGNATURE: DATE: 4-24-/6 PRINT NAME: AARON WALLACE PHONE: (248) 207-1984 ADDRESS: 9868 East Grand River, Suites 110-225, Brighton, MI 48116

Page 2 of 9



# **GENOA CHARTER TOWNSHIP Special Land Use Application**

GENOA TOWNSHIP
MAY 1 9 2016
RECEIVED

This application must be accompanied by a site plan review application and the associated submittal requirements. (The Zoning Official may allow a less detailed sketch plan for a change in use.)

APPLICANT NAME & ADDRESS: Seaside Seawalls, LLC					
Submit a letter of Authorization from Property Owner if application is signed by Acting Agent.					
APPLICANT PHONE: ( 248 ) 207-1984 EMAIL: aaron@seasideseawalls.com					
OWNER NAME & ADDRESS: Aaron Wallace, 9868 E. Grand River, Suites 110-225, Brighton, MI 48116					
SITE ADDRESS: Victory Drive, Howell, MI 48843 PARCEL #(s): 4711-05-303-025					
OWNER PHONE: ( 248 ) 207-1984 EMAIL: aaron@seasideseawalls.com					
Location and brief description of site and surroundings:  The site is located on the east side of Victory Drive, approximately 1,625 feet southwest of the E. Grand River Ave. intersection					
The property has a total area of 5.85 acres and is currently undeveloped. The subject property and adjacent properties are all					
zoned within the industrial district, with the subject property having approximately 660 feet of frontage along Victory Drive.					
Proposed Use: The proposed use for the property is to store and maintain construction equipment.					
Special Use: Fuel Storage Tanks					
Describe how your request meets the Zoning Ordinance General Review Standards (section 19.03):					
a. Describe how the use will be compatible and in accordance with the goals, objectives, and policies of the Genoa Township Comprehensive Plan and subarea plans, and will promote the Statement of Purpose of the zoning district in which the use is proposed.					
The special land use application is for fuel storage tanks. The site will contain two 300 gallon fuel tanks on a concrete pad					
with a built in containment curb. The use is consistant with the zoning district.					
b. Describe how the use will be designed, constructed, operated, and maintained to be compatible with, and not significantly alter, the existing or intended character of the general vicinity.					
The proposed tanks will be designed and constructed to comply with all standards and regulations of the Genoa Township					
ordinance, section 13.07 and will be in accordance with state and federal requirements.					
c. How will the use be served adequately by essential public facilities and services such as highways, streets, police and fire protection, drainage structures, water and sewage facilities, refuse disposal and schools? The site will be able to be served adequately by all public facilities and services. The subject property will be located and accessible from Victory Drive for police and fire protection. The site will be service by public sanitary sewer and connect to the					
existing sanitary lead on site. The development lies outside of the municipal water main district and will be serviced by well.					

Stormwater management will meet all local, county and state stormwater and erosion control requirements.

d. Will the use involve any uses, activities, processes, or materials potentially detrimental to the natural environment, public health, safety, or welfare by reason of excessive production of traffic, noise, vibration, smoke, fumes, odors, glare, or other such nuisance? If so, how will the impacts be mitigated?						
No, the site will not	have any potentially determenta	ıl uses, activities, proc	esses, or materia	ls to either the natural envi	iomment.	
	ty, or welfare. Fuel storage will b					
e. Does the use I	have specific criteria as listed how the criteria are met.	d in the Zoning Or	dinance (section	ns 3.03.02, 7.02.02, & 8	3.02.02)?	
No, the special us	e does not have specific criteria	as listed in sextion 8.	02.02 of the zonin	g ordinance. The fuel tanks	s however wil	
comply with all sta	ndards set forth in section 13.07	of the zoning ordinar	nce. The tanks will	be 300 gallon capacity, lo	cated more	
	my occupied building or lot line a					
THIS APPLICA' I AGREE TO DI BUILDINGS, ST ACCORDANCE ORDINANCE, A THIS PERMIT.  THE UNDERSIG	I HEREBY CERTIFY THAT ALL INFORMATION AND DATA ATTACHED TO AND MADE PART OF THIS APPLICATION ARE TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF. I AGREE TO DESIGN, CONSTRUCT AND OPERATE, AND MAINTAIN THESE PREMISES AND THE BUILDINGS, STRUCTURES, AND FACILITIES WHICH ARE GOVERNED BY THIS PERMIT IN ACCORDANCE WITH THE STATED REQUIREMENTS OF THE GENOA TOWNSHIP ZONING ORDINANCE, AND SUCH ADDITIONAL LIMITS AND SAFEGUARDS AS MAY BE MADE A PART OF THIS PERMIT.  THE UNDERSIGNED ABOVE AND MAKES  STATES THAT THEY ARE THE FREE OWNER OF THE PROPERTY OF PROPERTIES DESCRIBED ABOVE AND MAKES					
APPLICATION	FOR THIS SPECIAL LAND	D USE PERMIT.	(100 )	DIAND WINES		
BY:						
					<del></del>	
Contact Information	on - Review Letters and Corr	respondence shall t	pe forwarded to	the following:		
Brent LaVanway	of Boss Engine	enina	at RDEN	ITI @BOSSENC COM	il	
Name	Business Af		Email	ITL@BOSSENG.COM		
	FEE EXCER	EDANCE AGREE	MENT			
<ol> <li>Planning Committee equired to pay the appropriate to payment will be required.</li> </ol>	plan review fee schedule, al ission meeting. If additional actual incurred costs for the a uired concurrent with submit and full understanding of this	Il site plans are allo reviews or meeting additional reviews. ttal to the Townshi	cated two (2) cogs are necessary	, the applicant will be	ne	
IGNATURE:	and		DATE:	5-19-16		
RINT NAME:	Auron Wallace		248-207			

# SENOA Stawnship

# **GENOA CHARTER TOWNSHIP Special Land Use Application**

MAY 1 9 2016

RECEIVED

This application must be accompanied by a site plan review application and the associated submittal requirements. (The Zoning Official may allow a less detailed sketch plan for a change in use.)

APPLICANT NAME & ADDRESS: Seaside Seawalls, LLC
Submit a letter of Authorization from Property Owner if application is signed by Acting Agent.
APPLICANT PHONE: ( 248 ) 207-1984 EMAIL: aaron@seasideseawalls.com
OWNER NAME & ADDRESS: Aaron Wallace, 9868 E. Grand River, Suites 110-225, Brighton, MI 48116
SITE ADDRESS: Victory Drive, Howell, MI 48843 PARCEL #(s): 4711-05-303-025
OWNER PHONE: ( 248 ) 207-1984 EMAIL: aaron@seasideseawalls.com
Location and brief description of site and surroundings:  The site is located on the east side of Victory Drive, approximately 1,625 feet southwest of the E. Grand River Ave. intersection
The property has a total area of 5.85 acres and is currently undeveloped. The subject property and adjacent properties are all
zoned within the industrial district, with the subject property having approximately 660 feet of frontage along Victory Drive.
Proposed Use: The proposed use for the property is to store and maintain construction equipment.
Special Use: Grading within 25-feet of a wetland
Describe how your request meets the Zoning Ordinance General Review Standards (section 19.03):
a. Describe how the use will be compatible and in accordance with the goals, objectives, and policies of the Genoa Township Comprehensive Plan and subarea plans, and will promote the Statement of Purpose of the zoning district in which the use is proposed.
The special land use application is for grading within 25-feet of a wetland. No permanent structure will be within the required 25' wetla setback. The minimal grading being done within this 25' setback will not negatively impact the wetland and is to ensure proper
stormwater management with the use of sedimentation basins. The sedimentation basins will allow for stormwater to be treated
and outlet into existing wetlands at a controlled rate. The use will confrom with all requirements set forth by Genoa Township.
<ul> <li>Describe how the use will be designed, constructed, operated, and maintained to be compatible with, and not significantly alter, the existing or intended character of the general vicinity.</li> </ul>
The proposed grading will be designed and constructed to comply with all grading standards and regulations of Genoa Township.
The site is 5.85 acres, however the majority of this acerage consists of wetlands which limits upland area.
c. How will the use be served adequately by essential public facilities and services such as highways, streets,

police and fire protection, drainage structures, water and sewage facilities, refuse disposal and schools?

The site will be able to be served adequately by all essential public facilities and services. The subject property will be located and accessible from Victory Drive for police and fire protection. The site will be service by public sanitary sewer and connect to the existing sanitary lead on site. The development lies outside of the municipal water main district and will be serviced by well.

Stormwater management will meet all local, county and state stormwater and erosion control requirements.

d. Will the use involve any uses, activities, processes, or materials potentially detrimental to the natural environment, public health, safety, or welfare by reason of excessive production of traffic, noise, vibration, smoke, fumes, odors, glare, or other such nuisance? If so, how will the impacts be mitigated?					
No, the site will not have ar	y potentially determental uses, activities	s, processes, or materials to either	r the natural enviornment,		
public health, safety, or we	lfare. A special use permit for fuel storage	ge has been applied for.			
e. Does the use have sp If so, describe how t	pecific criteria as listed in the Zonin he criteria are met.	g Ordinance (sections 3.03.02	2, 7.02.02, & 8.02.02)?		
The special use grading do	es not have specific criteria as listed in	section 8.02.02 of the zoning ordi	nance. However the grading		
follow all standards and reg	gulations set forth by Genoa Township. (	Once the setback area is graded i	t will be seeded and mulche		
and remain lawn.					
THIS APPLICATION I I AGREE TO DESIGN BUILDINGS, STRUCT ACCORDANCE WITH	THAT ALL INFORMATION AND ARE TRUE AND ACCURATE TO, CONSTRUCT AND OPERATE, TURES, AND FACILITIES WHICH THE STATED REQUIREMENT UCH ADDITIONAL LIMITS ANI	O THE BEST OF MY KNOW AND MAINTAIN THESE P TH ARE GOVERNED BY TH S OF THE GENOA TOWNS	LEDGE AND BELIEF. REMISES AND THE REMISES FERMIT IN REMISES FOR THE REMISES FO		
FREE OWNER OF TH APPLICATION FOR 1	<u>Aaron Wallace</u> E PROPERTY OF PROPERTIES I THIS SPECIAL LAND USE PERM	DESCRIBED ABOVE AND 11T.			
ы					
ADDRESS:					
Contact Information - Re	eview Letters and Correspondence s	shall be forwarded to the follo	owing:		
Brent LaVanway	of Boss Engineering	at BRENTL@BOS	SSENG.COM		
Name	Business Affiliation	Email			
	FEE EXCEEDANCE AG	GREEMENT			
(1) Planning Commission required to pay the actual payment will be required of	review fee schedule, all site plans ar meeting. If additional reviews or m incurred costs for the additional rev concurrent with submittal to the Tov all understanding of this policy.	neetings are necessary, the apviews. If applicable, additiona	plicant will be il review fee		
SIGNATURE:	2nl	DATE:	1-16		
PRINT NAME: A	run Wallace PHO	ONE: <u>248-207-1984</u>	<u>/</u>		

TRAINING MOTION



## **GENOA CHARTER TOWNSHIP Special Land Use Application**

GENOA TOWNSHIP MAY 19 2010 RECEIVED

This application must be accompanied by a site plan review application and the associated submittal requirements. (The Zoning Official may allow a less detailed sketch plan for a change in use.)

APPLICANT NAME & ADDRESS: Seaside Seawalls, LLC				
Submit a letter of Authorization from Property Owner if application is signed by Acting Agent.				
APPLICANT PHONE: ( 248 ) 207-1984 EMAIL: aaron@seasideseawalls.com				
OWNER NAME & ADDRESS: Aaron Wallace, 9868 E. Grand River, Suites 110-225, Brighton, MI 48116				
SITE ADDRESS: Victory Drive, Howell, MI 48843 PARCEL #(s): 4711-05-303-025				
OWNER PHONE: ( 248 ) 207-1984 EMAIL: aaron@seasideseawalls.com				
Location and brief description of site and surroundings:  The site is located on the east side of Victory Drive, approximately 1,625 feet southwest of the E. Grand River Ave. intersection				
The property has a total area of 5.85 acres and is currently undeveloped. The subject property and adjacent properties are all				
zoned within the industrial district, with the subject property having approximately 660 feet of frontage along Victory Drive.				
Proposed Use: The proposed use for the property is to store and maintain construction equipment.				
Special Use: Outdoor Storage				
Describe how your request meets the Zoning Ordinance General Review Standards (section 19.03):				
a. Describe how the use will be compatible and in accordance with the goals, objectives, and policies of the Genoa Township Comprehensive Plan and subarea plans, and will promote the Statement of Purpose of the zoning district in which the use is proposed.				
The outdoor storage use will comply with all requirements set forth by Genoa Township. This is a common use within the				
industrial zoning district.				
<ul> <li>Describe how the use will be designed, constructed, operated, and maintained to be compatible with, and not significantly alter, the existing or intended character of the general vicinity.</li> </ul>				

The proposed use of the site is for storage purposes, with hours of operation between 7am and 7pm. The subject site confroms with current surrounding land being zoned in the industrial district. The increase in light, noise or air pollution will be minimal with what is typically associated with an industrial development.

c. How will the use be served adequately by essential public facilities and services such as highways, streets, police and fire protection, drainage structures, water and sewage facilities, refuse disposal and schools? The site will be able to be served adequately by all essential public facilities and services. The subject property will be located and accessible from Victory Drive for police and fire protection. The site will be service by public sanitary sewer and connect to the existing sanitary lead on site. The development lies outside of the municipal water main district and will be serviced by well. Stormwater management will meet all local, county and state stormwater and erosion control requirements.

d. Will the use involve any uses, activities, processes, or materials potentially detrimental to the natural environment, public health, safety, or welfare by reason of excessive production of traffic, noise, vibration, smoke, fumes, odors, glare, or other such nuisance? If so, how will the impacts be mitigated?						
No, the site will not have any potentially determental uses, activities, processes, or materials to either the natural environment,						
public health, safety, or welfare. A special use permit for fuel storage has been applied for.						
e. Does the use have specific criteria as listed in the Zoning Ordinance (sections 3.03.02, 7.02.02, & 8.02.02)? If so, describe how the criteria are met.						
The special use of outdoor storage for the site will comply with all of the criteria listed in 8.02.02 section "b".						
I HEREBY CERTIFY THAT ALL INFORMATION AND DATA ATTACHED TO AND MADE PART OF THIS APPLICATION ARE TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEI I AGREE TO DESIGN, CONSTRUCT AND OPERATE, AND MAINTAIN THESE PREMISES AND THE BUILDINGS, STRUCTURES, AND FACILITIES WHICH ARE GOVERNED BY THIS PERMIT IN ACCORDANCE WITH THE STATED REQUIREMENTS OF THE GENOA TOWNSHIP ZONING ORDINANCE, AND SUCH ADDITIONAL LIMITS AND SAFEGUARDS AS MAY BE MADE A PART OTHIS PERMIT.						
THE UNDERSIGNED Aaron Wallace STATES THAT THEY ARE THE FREE OWNER OF THE PROPERTY OF PROPERTIES DESCRIBED ABOVE AND MAKES APPLICATION FOR THIS SPECIAL LAND USE PERMIT.  BY:						
ADDRESS:						
Contact Information - Review Letters and Correspondence shall be forwarded to the following:						
Brent LaVanway of Boss Engineering at BRENTL@BOSSENG.COM						
Name Business Affiliation Email						
FEE EXCEEDANCE AGREEMENT						
As stated on the site plan review fee schedule, all site plans are allocated two (2) consultant reviews and one (1) Planning Commission meeting. If additional reviews or meetings are necessary, the applicant will be required to pay the actual incurred costs for the additional reviews. If applicable, additional review fee payment will be required concurrent with submittal to the Township Board. By signing below, applicant indicates agreement and full understanding of this policy.						
SIGNATURE: (16)						
PRINT NAME: Aaron Wallace PHONE: 248-207-1984						



June 7, 2016

Planning Commission Genoa Township 2911 Dorr Road Brighton, Michigan 48116

<b>Attention:</b>	Kelly Van Marter, AICP
	Planning Director and Assistant Township Manager
Subject:	Seaside Seawalls – Special Land Use and Site Plan Review #2
<b>Location:</b>	Victory Drive – east side of Victory Drive, south of Grand River Avenue
<b>Zoning:</b>	IND Industrial District

### Dear Commissioners:

At the Township's request, we have reviewed the revised site plan (dated 5/25/16) proposing a new industrial building on a vacant 5.85-acre lot on Victory Drive. The project also includes outdoor storage, fuel storage tanks and grading within 25 feet of a wetland, each of which requires special land use approval. We have reviewed the proposal in accordance with the applicable provisions of the Genoa Township Master Plan and Zoning Ordinance.

### A. Summary

- 1. Provided the applicant complies with the specific use requirements (items 2-5 below) and any issues identified by Engineering and Fire are addressed, the project is expected to comply with the general special land use criteria.
- 2. Additional details and screening are needed for full compliance with the outdoor storage requirements.
- 3. Additional information is needed for full compliance with the fuel storage requirements.
- 4. Planning Commission approval is required for the sedimentation basin outlets, which encroach to the edge of the wetland.
- 5. A variance from ZBA is required to extend fencing to the edge of the wetland. We encourage the applicant to stop the fence at the 25-foot wetland setback, as opposed to seeking a variance.
- 6. The proposed elevations, including colors and materials, are subject to review and approval by the Planning Commission. We request the applicant present a material and color sample board.
- 7. We recommend the applicant consider some additional architectural treatments to help break up the wall surface and provide a more aesthetic elevation along the street frontage.
- 8. The waste receptacle must be screened in accordance with Section 12.04.
- 9. A sign permit will be required prior to installation.

### B. Proposal

The applicant has applied for site plan review and approval of a 9,200 square foot building on a vacant 5.85-acre site. The application indicates that the proposed use is to store and maintain construction equipment.

Based on our understanding of the proposal, it best fits a contractor's office and building with indoor storage of equipment and machinery, which is a permitted use. The submittal also includes outdoor storage, fuel storage tanks and grading within 25 feet of a wetland, each of which requires a separate special land use approval.

Given the need for special land use approval, Planning Commission is to make a recommendation on the special land uses, site plan and Impact Assessment for consideration by the Township Board.



Aerial view of site and surroundings (looking north)

### C. Special Land Use Review

Section 19.03 of the Zoning Ordinance identifies the review criteria for Special Land Use applications as follows:

- 1. Master Plan. The Township Master Plan and Future Land Use map identify the site and surrounding properties as Industrial. This category is intended for "industrial uses such as research, wholesale and warehouse activities and light industrial operations which manufacture, compounding, process, package, assemble and/or treat finished or semi-finished products from previously prepared material." Provided the specific use requirements are met, the location and nature of the site are generally consistent with this category and description.
- **2. Compatibility.** Surrounding properties are generally developed with industrial uses or are undeveloped. Review of aerial photos indicates existing outdoor storage that is accessory to other industrial operations in the vicinity.

As described in Paragraphs D-F below, the host of uses are subject to specific requirements of Section 8.02.02(b) and Article 13, which are intended to protect surrounding properties and the environment from potential adverse impacts. Additional information and/or modifications are needed to fully comply with these requirements.

- **3. Public Facilities and Services.** We defer to the Township Engineer and Fire Department for any specific comments/concerns they may have.
- **4. Impacts.** The site contains a large amount of wetland area approximately 3 acres of the 5.85-acre site. The Impact Assessment states that the wetland areas are of low quality. As such, it is unclear whether any permits/approvals from MDEQ are necessary.

Our primary concern under this criterion is the fact that the northerly fence line extends to the edge of the wetland, which is not permitted under the Township's wetland protection regulations (described further in Paragraph F below). As noted below, we recommend the applicant end the fence line at the 25-foot wetland setback.

**5. Mitigation.** The Township may deem mitigation necessary to limit or alleviate any potential adverse impacts as a result of the proposed project.

### D. Outdoor Storage Standards

Section 8.02.02(b) identifies the specific requirements for commercial outdoor display sales or storage as follows:

1. Minimum lot area shall be one (1) acre.

The submittal identifies a lot area of 5.85 acres. This standard is met.

2. Any stockpiles of soils, fertilizer or similar loosely packaged materials shall be sufficiently covered or contained to prevent dust or blowing of materials.

The submittal does not identify what exactly will be stored outdoors. We request the applicant confirm that this standard will be met.

3. All outdoor storage areas shall be paved with a permanent, durable and dustless surface and shall be graded and drained to dispose stormwater without negatively impact adjacent property. The Township Board, following a recommendation of the Planning Commission and the Township Engineer, may approve a gravel surface for all or part of the display or storage area for low intensity activities, upon a finding that neighboring properties and the environment will not be negatively impacted.

The site plan includes a 20' x 52' concrete pad for storage and waste receptacles. The larger area to the west is proposed as gravel. Given the proximity of wetland areas to the site, the use of gravel is likely to reduce stormwater run-off, which could be a benefit; however, we defer to the Township Engineer for specific comments on this aspect of the proposal.

4. No outdoor storage shall be permitted in any required yard (setback) of buildings for the district in which the outdoor display, sales or storage use is located. Any approved outdoor sales or display within a parking lot shall meet the required parking lot setback; provided the Planning Commission may require additional landscaping screening or ornamental fencing.

Section 8.03 requires setbacks of 40 feet (rear) and 25 feet (side). This standard is met.

5. The site shall include a building of at least five hundred (500) feet of gross floor area for office use in conjunction with the use.

The proposed building contains 9,200 square feet of gross floor area. This standard is met.

6. All loading and truck maneuvering shall be accommodated on-site.

The site plan provides access to/from Victory Drive, with sufficient area for truck maneuvering. This standard is met.

7. All outdoor storage area property lines adjacent to a residential district shall provide a buffer zone A as described in Section 12.02. A buffer zone B shall be provided on all other sides. The Planning Commission may approve a six (6) foot high screen wall or fence, or a four (4) foot high landscaped berm as an alternative.

The site is surrounded by Industrial zoning; therefore, a Buffer Zone B is required around the outdoor storage area.

The spacing standards on all sides and planting requirements on the south side are met; however, the planting requirements for the north and east side are not met and there is no screen wall/fence or berm.

8. The height of all material and equipment stored in an outdoor storage area shall not exceed the height of any landscape screening, wall or fence. Boats and recreational vehicles may exceed the height of the fence provided that they are setback from the fence a distance equal to their height. Storage of materials up to the height of the adjacent building wall may be permitted in the rear yard if it is illustrated on the site plan, the rear yard does not abut a residential district or face an expressway, and such storage is confined to within twenty (20) feet of the building.

The submittal does not describe the height of materials to be stored outdoors. The applicant needs to provide this information.

### E. Fuel Storage Standards

Section 13.07 identifies the specific requirements for fuel storage as follows:

- 1. Above Ground Storage Tanks. The project includes 2 above ground storage tanks, each with 300 gallon capacity. The tanks will be mounted on a concrete base pad that is located well away from the building and property lines. These standards are met.
- **2. Below Ground Storage Tanks.** The project entails above ground storage; therefore, these standards are not applicable.
- **3. Secondary Containment.** The application form notes the use of a containment curb on the concrete base pad. This standard also requires "documentation of compliance with state and federal regulations, as required." The applicant must provide such documentation.
- **4. Pollution Incident Prevention Plan.** Section 13.07.04 lists all of the information required for a PIP Plan. The applicant has indicated that this document will be provided at a later date.
- **5. Permits.** Given the nature of the proposed use, the applicant may be required to obtain additional permits.

### F. Wetland Protection Standards

Grading is allowed within 25 feet of a regulated wetland with special land use approval; however, no activities are allowed within 10 feet of a regulated wetland, unless otherwise approved by the Planning Commission.

The outlet for both sedimentation basins encroach to the edge of the wetland. As such, Commission approval is required. The remainder of the grading is more than 10 feet away from the wetland; however, the northerly fence line extends all the way to the edge of the wetland.

The applicant would need to obtain a variance from ZBA for a structure within the 25-foot setback, per Section 13.02.05. Alternatively, we encourage the applicant to stop the fence at the setback line, similar to the southerly fence.

Lastly, the Commission should consider any comments from the Township Engineer related to these activities.

### G. Site Plan Review

**1. Dimensional Requirements.** As shown in the table below, the proposal has been reviewed for compliance with the dimensional standards of the IND:

	Lot Size		Minimum Setbacks (feet)				Mov	
District	Lot Area	Width	Front	Side	Rear	Parking	Max. Height	Lot Coverage
	(acres)	(feet)	Yard	Yard	Yard	Tarking	Height	
IND	1	150	50 50	25	40	20 front	30' / 2	40% building
IND		130				10 side/rear	stories	85% impervious
				336 (N)		50.3 front	24.67' / 1	3.29% building
Proposal	5.85	85   497   50.3	143 (S)	293	267 side		18.79% impervious	
				143 (3)		180 rear	story	18.79% impervious

2. Building Materials and Design. The proposed elevations, including colors and materials, are subject to review and approval by the Planning Commission. We request the applicant present the Commission with material and color samples.

The proposed building consists of concrete block with different color treatments and a metal roof. Overhead doors are proposed on the rear and side of the building, as required.

Lastly, the front of the building is mostly a blank surface. We recommend the applicant consider some additional architectural treatments to help break up the wall surface and provide a more aesthetic elevation along the street frontage.

- **3. Parking.** The proposed project results in the need for 18 parking spaces, which are provided. The one required barrier free space is also provided and spaces are designed with looped striping, per Ordinance standards. Parking space and drive aisle dimensions also comply with Ordinance standards.
- **4. Pedestrian Circulation.** A 7-foot wide sidewalk is proposed between the main parking lot and building entrance. Because this is an industrial site, a public sidewalk is not required.
- **5. Vehicular Circulation.** The site plan proposes two driveways that align with the existing drives across Victory Drive. We see no issues with internal circulation, as drive aisle widths are compliant and there is ample maneuvering space behind the building for large vehicles/equipment.
- **6.** Landscaping. As shown in the table below, the plan complies with the standards of Section 12.02:

Location	Requirements	Proposed	Comments
Front yard 17 canopy trees		17 canopy trees	Requirements met
greenbelt 20' width		50' width	
Parking lot 2 canopy trees		2 canopy trees	Requirements met
	180 SF landscaped area	190 SF landscaped area	

7. Waste Receptacle and Enclosure. The site plan identifies a concrete pad in the rear yard with a note that it is intended for storage bins and a dumpster. However, the note also states that screening is not proposed due to limited visibility.

In our opinion, the requirement for screening around dumpsters still must be met, as we do not see any Township discretion within Section 12.04. The standard is intended not only to protect views, but also to establish a proper containment area for waste receptacles.

- **8. Exterior Lighting.** The lighting plan proposes 2 pole-mounted and 4 wall-mounted light fixtures. Intensities on-site and at the property lines, as well as pole heights, are all compliant.
- **9. Signs.** The site plan does not identify a ground sign; however, the elevation drawings show an approximately 100 square foot wall sign. The proposed sign complies with the standards of Article 16, although the applicant will be required to obtain a sign permit prior to its installation.
- **10. Fencing.** The rear yard is enclosed by security fencing, including gates at the two driveways. The revised plan includes a detail showing a 6-foot tall chain link fence with 1-foot of barbed wire across the top. The proposed fencing, including the barbed wire, complies with the standards of Section 11.04.04. As a side note, the northerly fence line runs all the way to the edge of the wetland, thus encroaching into the 25-foot wetland setback.
- **11. Impact Assessment.** The submittal includes a revised Impact Assessment (dated 5/25/16). In summary, the Assessment notes that the project is not anticipated to adversely impact natural features, public services/utilities, surrounding land uses or traffic.

Should you have any questions concerning this matter, please do not hesitate to contact our office. We can be reached by phone at (248) 586-0505, or via e-mail at <a href="mailto:borden@lslplanning.com">borden@lslplanning.com</a> and penn@lslplanning.com.

Respectfully,

LSL PLANNING, A SAFEBUILT LLC COMPANY

Brian V. Borden, AICP

Planning Manager

Josh Penn

Project Planner I



June 8, 2016

Ms. Kelly Van Marter Genoa Township 2911 Dorr Road Brighton, MI 48116

Re: Seaside Seawalls Site Plan Review 2

Dear Ms. Van Marter:

We have reviewed the resubmitted impact assessment and site plan documents prepared by Boss Engineering for an approximate 9,200 square-foot building and storage yard located on east side of Victory Drive, south of Grand River Avenue. Tetra Tech has reviewed the updated documents and see that they have acknowledged the previous comments and recommend the site plan for approval.

Please call if you have any questions.

Sincerely,

Gary J. Markstrom, P.E. Unit Vice President

copy: Brent LaVanway, P.E. Boss Engineering

Joseph C. Siwek, P.E. Project Engineer

### **BRIGHTON AREA FIRE AUTHORITY**



615 W. Grand River Ave. Brighton, MI 48116 o: 810-229-6640 f: 810-229-1619

June 3, 2016

Kelly VanMarter Genoa Township 2911 Dorr Road Brighton, MI 48116

RE: Seaside Seawalls, LLC

Victory Drive (SW of E. Grand River)

Genoa Twp., MI

Dear Kelly:

The Brighton Area Fire Department has reviewed the above mentioned site plan. The plans were received for review on May 6, 2016 and the drawings are dated May 4, 2016. The project is for the proposed construction of a new 9,200 square foot B/S-1 mixed-use Occupancy that appears to be Type IIIB construction. The plan review is based on the requirements of the International Fire Code (IFC) 2015 edition.

- 1. The proposed diesel fuel containment area must be provided with impact protection in accordance with IFC 312.
- The water main location is not indicated on the submittal. Provide the location of the water main and the nearest hydrants to the site. (Noted that site is not serviced by municipal water, although the nearest hydrant to the site approximately 1,000 feet to the North)

IFC 912.2

3. Once issued, future project submittals shall include the address and street name of the project in the title block. (Noted on plan response)

IFC 105.4.2

4. The building shall include the building address on the building. The address shall be a <u>minimum of 6"</u> high letters of contrasting colors and be clearly visible from the street. The location and size shall be verified prior to installation. (Noted on plan response to be added to building when issued)

IFC 505.1

5. The access road at the rear of the building needs to be widened to 26' to ensure clear access around to building. With a width of 26' wide, the building side of the drive shall be marked as a fire lane. Include the location of the proposed fire lane signage and include a detail of the fire lane sign in the submittal. Access roads to site shall be provided and maintained during construction. Access roads shall be constructed to be capable of supporting the imposed load of fire apparatus weighing at least 75,000 pounds. (Construction noted on response)

IEC 503

- 6. Access around building shall provide emergency vehicles with a turning radius of 30' inside and 50' outside and maintain a minimum vertical clearance of 13 ½ feet. (Vehicle circulation shown to meet radius)
- 7. The location of a key box (Knox Box) shall be indicated on future submittals. The Knox box will be located adjacent to the front door of the structure. In addition, the access gate shall



### **BRIGHTON AREA FIRE AUTHORITY**

June 3, 2016 Page 2 Seaside Seawalls, LLC Victory Drive (SW of E. Grand River) Site Plan Review

be provided with a knox padlock or key switch in conjunction with the owners locking arrangement. (Noted that gates and building to be provided with Knox box and locks)

IFC 506.1

8. Provide names, addresses, phone numbers, emails of owner or owner's agent, contractor, architect, on-site project supervisor. (Noted on response)

Additional comments will be given during the building plan review process (specific to the building plans and occupancy). The applicant is reminded that the fire authority must review the fire protection systems submittals (sprinkler & alarm) prior to permit issuance by the Building Department and that the authority will also review the building plans for life safety requirements in conjunction with the Building Department.

If you have any questions about the comments on this plan review please contact me at 810-229-6640.

Cordially,

Capt. Rick Boisvert, CFPS Fire Inspector

### **Livingston County Road Commission**

3535 Grand Oaks Drive • Howell, Michigan 48843-8575 Telephone: (517) 546-4250 • Facsimile: (517) 546-9628 Internet Address: www.livingstonroads.org

nternet Address: www.iivingstonroads.org

May 6, 2016

Brent LaVanway, P.E. Boss Engineering 3121 E. Grand River Ave Howell, MI 48843

Re:

Seaside Seawalls LLC, Genoa Township, Section 5/6

LCRC# C-16-06

Dear Mr. LaVanway:

I have completed the review of the plans, dated May 4, 2016, for the above-referenced project and offer the following comments.

- 1. A contractor must be selected and the contractor must submit a certificate of insurance to the LCRC with the following language: "The Board of Livingston County Road Commissioners, the Livingston County Road Commission, and their officers, agents, and employees are listed additional insured parties with respects to General Liability." Please note that this item is not required for plan approval but will be needed prior to the issuance of an approach permit.
- Since Victory Drive is not a curb and gutter road, the proposed concrete curb at the approach shall terminate at least 5 feet from the edge of the Victory Drive pavement.
- 3. Proposed approach grades at the connection to Victory Drive and around the radii need to be provided on the plan to verify that no portion of the approach exceeds a grade of 5% and to verify that there is sufficient cover over top of the proposed approach culverts.

Please submit two (2) copies of revised plans for review. If you have any questions, please do not hesitate to contact me.

Sincerely,

Kim Hiller, P.E.

**Utilities and Permits Engineer** 

Cc: File

Kelly VanMarter, Genoa Township (via email)

Ken Recker, Livingston County Drain Commissioner's office (via email)

### **Amy Ruthig**

From: Michael Bartlett <b-bartlett@sbcglobal.net>

**Sent:** Monday, June 06, 2016 2:21 PM

To: Amy Ruthig
Cc: Christine Bartlett

Subject: June 13, 2016 Public Hearing - Seaside Seawalls

We are unable to attend the June 13, 2016 public hearing, so these are our written comments submitted to the Genoa Township Planning Commission.

In regarding to the Special Land Use Permit for parcel #11-05-303-025 requested by Seaside Seawalls. We own parcel #11-05-300-021, and 11-05-303-026, and 11-05-300-051 which are adjacent to the subject property.

We do not object to the outside storage requested, except we feel strongly that the entire outside storage area should be enclosed with a fence by adding fencing along the East side of the outside storage area, as is proposed for the North and South side of the outside storage.

We also have concerns and question regarding the storage of hazardous materials. Are all state, county and municipal requirements being complied with in regard to storage of hazardous materials and what measures are proposed to contain any leaks or spills?

Sincerely, Christine Bartlett Managing Partner - DeChris Limited Pertnership

# IMPACT ASSESSMENT FOR SITE PLAN PETITION "SEASIDE SEAWALLS, LLC" GENOA TOWNSHIP, LIVINGSTON COUNTY MICHIGAN

Prepared for:

SEASIDE SEAWALLS, LLC 9868 EAST GRAND RIVER SUITES 110-225 BRIGHTON, MI 48116 (248) 207-1984

Prepared by:

BOSS ENGINEERING COMPANY 3121 E. GRAND RIVER HOWELL, MI 48843 (517) 546-4836

> MAY 04, 2016 Revised: 05/25/2016

> > 16-049 EIA

### INTRODUCTION

The purpose of this Impact Assessment (IA) report is to show the effect that this proposed development may have on various factors in the general vicinity of the project. The format used for presentation of this report conforms to the *Submittal Requirements for Impact Assessment* guidelines in accordance with Section 18.07 of the published Zoning Ordinance for Genoa Township, Livingston County, Michigan.

### **DISCUSSION ITEMS**

A. Name(s) and address(es) of person(s) responsible for preparation of the impact assessment and a brief statement of their qualifications.

Prepared For: SEASIDE SEAWALLS, LLC 9868 East Grand River Suites 110-225 Brighton, MI 48116 (248) 207-1984

Prepared By: BOSS ENGINEERING COMPANY Civil Engineers, Land Surveyors, Landscape Architects and Planners 3121 E. Grand River Howell, MI 48843 (517) 546-4836

Boss Engineering has been successfully providing engineering, surveying, planning and landscape architecture services on land development projects since 1969. Since its beginning, Boss Engineering has strived to provide unparalleled professional services with integrity and respect to every client. Today, Boss provides a complete lineup of consulting services for each project, ranging from conceptual design through final construction. The company currently employs a variety of professions including civil engineers, surveyors, landscape architects and sanitarians.

B. Map(s) and written description / analysis of the project site including all existing structures, manmade facilities, and natural features. The analysis shall also include information for areas within 10 feet of the property. An aerial photograph or drawing may be used to delineate these areas.

The site is located on the east side of Victory Drive approximately 1,625 feet southwest of the E. Grand River Ave intersection. The property has a total area of 5.85 AC and is currently undeveloped. The subject property and adjacent properties are all zoned within the Industrial District (IND), with the subject property having approximately 660 feet of frontage along Victory Drive.

C. Impact on natural features: A written description of the environmental characteristics of the site prior to development and following development, i.e., topography, soils, wildlife, woodlands, mature trees (eight inch caliper or greater), wetlands, drainage, lakes, streams, creeks or ponds. Documentation by a qualified wetland specialist shall be required wherever the Township determines that there is a potential regulated wetland. Reduced copies of the Existing Conditions Map(s) or aerial photographs may accompany written material.

The total site area is 5.85 acres. Approximately 3.03 acers of the site are designated as wetland, that surround the site along the north and east property lines. The wetland is considered low quality and part of the county drain system with excavated ditches being connected by culverts and draining into the wetland. The woodlands on site contain dogwood (scrub), cottonwood (1+20+), boxelder (1+8+), and silver maple (1+8+). The common wetland vegetation consists of reed canary grass with cattails and common reed grass within open water.

The site gradually drains towards the wetlands with the buildable area consisting of slopes of up to approximately 5.0% The USDA Soil Conservation Service soil classification for the site with Bronson Loamy Sand, Brookston Loam, Carlisle Muck, and Miami Loam.

The proposed development will not have any negative impact on the surrounding wetlands or vegetation and will help clean the site of significant debris. All storm water will be collected in two separate sedimentation basins and outlet at a controlled rate into the wetlands.

D. Impact on storm water management: Description of measures to control soil erosion and sedimentation during grading and construction operations and until a permanent ground cover is Recommendations for such measures may be obtained from County Soil Conservation Service.

Surface runoff during periods of construction will be controlled by proper methods set forth by the Livingston County Drain Commissioner, including silt fence, inlet protection devices, and seed and mulch.

At the time of construction, there may be some temporary dust, noise, vibration and smoke, but these conditions will be of relatively short duration and shall be controlled by applying appropriate procedures to minimize the effects, such as watering if necessary for dust control.

The Site Plan documents show the proposed locations of all site improvements along with detailed soil erosion control information. The plans will be reviewed by the Livingston County Drain Commissioners office for compliance with their regulations prior to issuance of a Soil Erosion Control permit.

E. Impact on surrounding land use: Description of the types of proposed uses and other man made facilities, including any project phasing, and an indication of how the proposed use conforms or conflicts with existing and potential development patterns. A description shall be provided of any increases of light, noise or air pollution which could negatively impact adjacent properties.

The proposed primary use of the site is for storage purposes, with hours of operations between 7am and 7pm Monday through Friday. The subject site conforms with current surrounding land being zoned in the industrial district. The increase in light, noise or air pollution will be minimal with what is typically associated with an industrial development.

F. Impact on public facilities and services: Description of number of expected residents, employees, visitors, or patrons, and the anticipated impact on public schools, police protection and fire protection.

Letters from the appropriate agencies may be provided, as appropriate.

The anticipated occupancy of approximately 6 employees, will have very little impact to nearby properties.

There is no expected impact on Howell Area Schools and very minimal impact on the police and fire departments.

G. Impact on public utilities: Description of the method to be used to service the development with water and sanitary sewer facilities, the method to be used to control drainage on the site and from the site, including runoff control during periods of construction. For sites service with sanitary sewer, calculations for pre- and post development flows shall be provided in equivalents to a single family home. Where septic systems are proposed, documentation or permits from the Livingston County Health Department shall be provided.

For sanitary, the development is to be served by public sanitary sewer and connect to the existing sanitary lead on site. The development lies outside of the municipal water main district and will be serviced by well.

The pre-development sanitary flow from this site is zero. Post-development flows based on MHOG sewer standards for industrial buildings is equivalent to 0.46 REUcs.

Warehouse & Storage: Unit factor = 0.05 per 1,000 sq ft

REU $\sigma$ s = (9,200 sq ft / 1,000 sq ft) x 0.05 = 0.46 REU $\sigma$ s

With regards to storm water management, the project will be required to meet all local, county and state storm water and erosion control requirements. All of the required information is included in the Site Plan documents. All storm water will be directed towards either the proposed north or south sedimentation basins and outlet at a controlled rate into the onsite wetland.

H. Storage or handling of any hazardous materials: Description of any hazardous substances expected to be used, stored or disposed of on the site. The information shall describe the type of materials, location within the site and method of containment. Documentation of compliance with federal and state requirements, and a Pollution Incident Prevention Plan (PIPP) shall be submitted, as appropriate.

There will be two 300-gallon diesel tanks on site both residing on concrete pads within a secondary containment structure. A pollution incident prevention plan is currently in process and will be submitted once it is completed. No hazardous materials will be disposed of on this site.

I. Impact on traffic and pedestrians: A description of the traffic volumes to be generated based on national reference documents, such as the most recent edition of the Institute of Transportation Engineers Trip Generation Manual, other published studies or actual counts of similar uses in Michigan.

The anticipated number of trips that will be generated based on the number of employees will be 6 trips between 7 AM - 9 AM and 6 trips between 5 PM - 7 PM.

J. A detailed traffic impact study shall be submitted for any site over ten (10) acres in size which would be expected to generate 100 directional vehicle trips (i.e. 100 inbound or 100 outbound trips) during the peak hour of traffic of the generator or on the adjacent streets.

The site is under 10 acres and therefore a detailed traffic impact study is not necessary.

K. Special Provisions: General description of any deed restrictions, protective covenants, master deed or association bylaws.

None at this time.

L. A list of all sources shall be provided.

Genoa Townships Submittal Requirements for Impact Assessment

Genoa Township Zoning Ordinances

Soil Survey of Livingston County, Michigan, U.S.D.A. Soil Conservation Service

National Wetland Inventory Plan, United States Department of the Interior, Fish and Wildlife Service

Trip Generation manual, 6<sup>th</sup> edition, Institute of Transportation Engineers

# SITE PLAN FOR SEASIDE SEAWALLS, LLC

PART OF THE SW. 1/4 SEC. 5 & THE SE. 1/4 SEC 6, T2N-R5E GENOA TOWNSHIP, LIVINGSTON COUNTY, MI

LOCATION MAP NO SCALE

SHEET INDEX

GRADING, DRAINAGE & SOIL EROSION CONTROL PLAN

DESCRIPTION

DRAINAGE AREA & UTILITY PLAN STORM SEWER CALCULATIONS

DRAWINGS PREPARED BY ARCHITECT

COVER SHEET

EXISTING CONDITIONS

LANDSCAPE PLAN

SANITARY SEWER DETAILS

CONSTRUCTION DETAILS

EXTERIOR ELEVATIONS

PROPOSED FLOOR PLAN

LIGHTING PLAN

SEASIDE SEAWALLS, LLC

# PROPERTY DESCRIPTION:

Part of Lot 18 and part of Lot 19 of "GRAND OAKS WEST INDUSTRIAL PARK", as recorded in Liber 30 of Plats, Pages 1-5, Livingston County Records and being a part of the Southwest 1/4 of Section 5 and part of the Southeast 1/4 of Section 6, T2N-R5E Genoa Township, Livingston County, Michigan, more particularly described as follows: Beginning at the Northwest Corner of said Lot 19 of "GRAND OAKS WEST INDUSTRIAL PARK"; thence along the North line of said Lot 19, S 80°36'27" E, 435.57 feet; thence S 02°07'51" W, 581.16 feet; thence S 88°58'54" W, 379.75 feet; thence along the East line of Victory Drive (66 foot wide Right of Way) on the following three (3) courses:

1) Northerly on an arc left, having a length of 62.39 feet, a radius of 650.15 feet, a central angle of 05°29'55", and a long chord which bears N 08°06'52" W, 62.37 feet; 2) Northerly on an arc right, having a length of 99.88 feet, a radius of 584.15 feet, a

central angle of 09°47'49", and a long chord which bears N 05°57'55" W, 99.76 feet; 3) N 01°04'01" W, 497.72 feet, to the POINT OF BEGINNING, containing 5.85 acres, more or less, and subject to the rights of the public over the existing said Victory Drive. Also subject to any other easements or restrictions of record.

### CONSTRUCTION NOTES

THE CONTRACTOR SHALL COMPLY WITH THE FOLLOWING NOTES AND ANY WORK INVOLVED SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. 1. THE CONTRACTOR SHALL HOLD HARMLESS THE DESIGN PROFESSIONAL, MUNICIPALITY, COUNTY, STATE AND ALL OF ITS SUB CONSULTANTS, PUBLIC AND COMPANIES, AND LANDOWNERS FOR DAMAGES TO INDIVIDUALS AND PROPERTY, REAL OR OTHERWISE, DUE TO THE OPERATIONS OF THE CONTRACTOR AND/OR THEIR SUBCONTRACTORS.

2. DO NOT SCALE THESE DRAWINGS AS IT IS A REPRODUCTION AND SUBJECT TO DISTORTION.

CONSTRUCTION.

5. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH LOCAL MUNICIPAL STANDARDS AND SPECIFICATIONS.

6. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED TOWNSHIP, COUNTY, AND STATE OF MICHIGAN PERMITS

7. PAVED SURFACES, WALKWAYS, SIGNS, LIGHTING AND OTHER STRUCTURES SHALL BE MAINTAINED IN A SAFE, ATTRACTIVE CONDITION AS ORIGINALLY

8. ALL BARRIER-FREE FEATURES SHALL BE CONSTRUCTED TO MEET ALL LOCAL, STATE AND A.D.A. REQUIREMENTS

9. ANY DISCREPANCY IN THIS PLAN AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE DESIGN ENGINEER PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL SETBACKS, EASEMENTS AND DIMENSIONS SHOWN

HEREON BEFORE BEGINNING 10. THE CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES AND RIGHTS-OF-WAY, PUBLIC OR PRIVATE, PRIOR TO THE START OF

CONSTRUCTION.

11. THE CONTRACTOR SHALL COORDINATE WITH ALL OWNERS TO DETERMINE THE LOCATION OF EXISTING LANDSCAPING, IRRIGATION LINES & PRIVATE THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING LANDSCAPING, IRRIGATION LINES, AND PRIVATE UTILITY LINES.

12. THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE UPON COMPLETION OF THE PROJECT.

13. THE CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND PUBLIC SHALL BE PROTECTED FROM INJURY, AND ADJOINING

FROM DAMAGE. 14. THE CONTRACTOR SHALL KEEP THE AREA OUTSIDE THE "CONSTRUCTION LIMITS" BROOM CLEAN AT ALL TIMES.

15. THE CONTRACTOR SHALL CALL MISS DIG A MINIMUM OF 72 HOURS PRIOR TO THE START OF CONSTRUCTION.

16. ALL EXCAVATION UNDER OR WITHIN 3 FEET OF PUBLIC PAVEMENT, EXISTING OR PROPOSED SHALL BE BACKFILLED AND COMPACTED WITH SAND (MDOT

17. ALL PAVEMENT REPLACEMENT AND OTHER WORKS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE

TOWNSHIP, INCLUDING THE LATEST MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

18. THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE TO EXISTING UTILITIES.

19. NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR ANY DELAY OR INCONVENIENCE DUE TO THE MATERIAL SHORTAGES OR DUE TO THE OPERATIONS OF SUCH OTHER PARTIES DOING WORK INDICATED OR SHOWN ON THE PLANS OR IN THE SPECIFICATION OR FOR ANY REASONABLE DELAYS IN CONSTRUCTION DUE TO THE ENCOUNTERING OR EXISTING UTILITIES THAT MAY OR MAY NOT BE

20. DURING THE CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL NOT PERFORM WORK BY PRIVATE AGREEMENT WITH PROPERTY OWNERS

21. IF WORK EXTENDS BEYOND NOVEMBER 15, NO COMPENSATION WILL BE DUE TO THE CONTRACTOR FOR ANY WINTER PROTECTION MEASURES THAT MAY

BY THE ENGINEER. 22. NO TREES ARE TO BE REMOVED UNTIL MARKED IN THE FIELD BY THE ENGINEER.

23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PROPERTY BEYOND THE CONSTRUCTION LIMITS INCLUDING BUT NOT LIMITED TO

EXISTING FENCE, LAWN, TREES AND SHRUBBERY. 24. ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND THE NORMAL CONSTRUCTION LIMITS OF THE PROJECT SHALL BE SODDED OR SEEDED AS

BY THE ENGINEER.

25. ALL ROOTS, STUMPS AND OTHER OBJECTIONABLE MATERIALS SHALL BE REMOVED AND THE HOLE BACKFILLED WITH SUITABLE MATERIAL. WHERE GRADE S REQUIRED, THE SUBGRADE SHALL BE CUT TO CONFORM TO THE CROSS-SECTION AS SHOWN IN THE PLANS. 26. TRAFFIC SHALL BE MAINTAINED DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL SIGNS AND TRAFFIC CONTROL

PERSONS SHALL BE PROVIDED BY THE CONTRACTOR IF DETERMINED NECESSARY BY THE ENGINEER. ALL SIGNS SHALL CONFORM TO THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AT NO COST TO THE TOWNSHIP. NO WORK SHALL BE DONE UNLESS THE

APPROPRIATE TRAFFIC CONTROL DEVICES ARE IN PLACE. 27. ALL DEMOLISHED MATERIALS AND SOIL SPOILS SHALL BE REMOVED FROM THE SITE AT NO ADDITIONAL COST, AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

28. AFTER REMOVAL OF TOPSOIL, THE SUBGRADE SHALL BE COMPACTED TO 95% OF ITS UNIT WEIGHT.

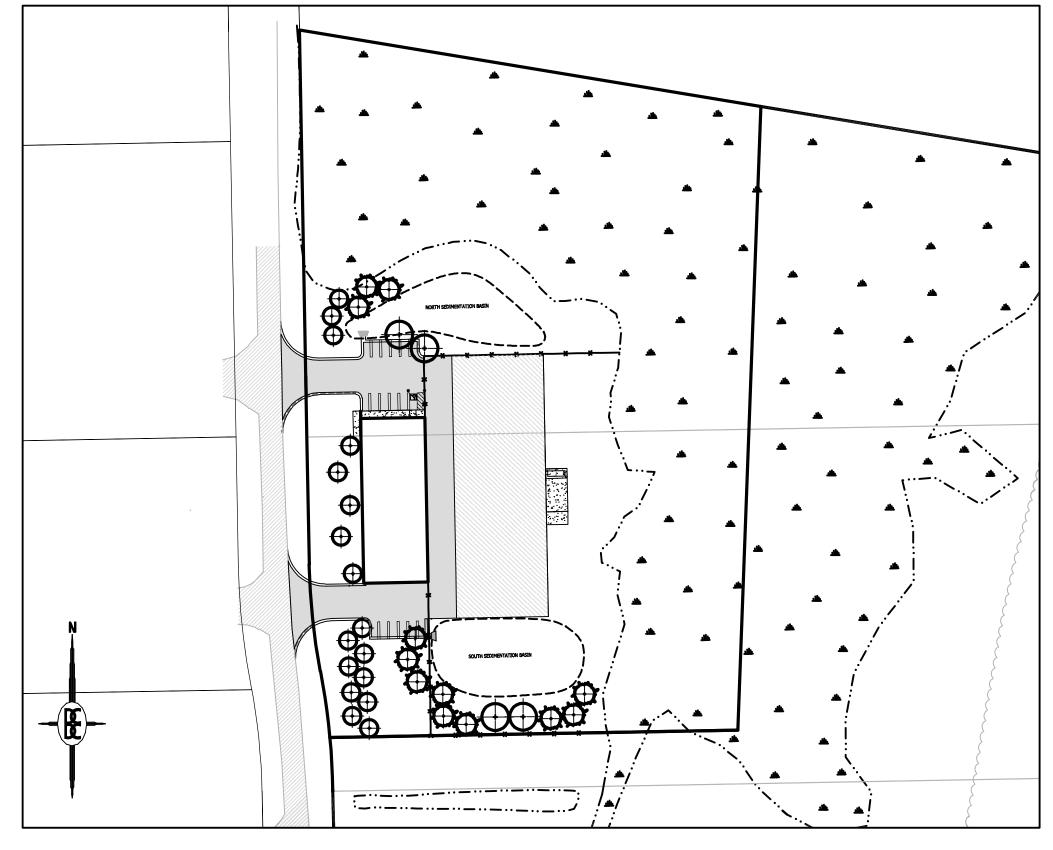
29. ALL GRADING IN THE PLANS SHALL BE DONE AS PART OF THIS CONTRACT. ALL DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE SUBGRADE PRIOR

30. NO SEEDING SHALL BE DONE AFTER OCTOBER 15 WITHOUT APPROVAL OF THE ENGINEER.

31. ANY EXISTING APPURTENANCES SUCH AS MANHOLES, GATE VALVES, ETC. SHALL BE ADJUSTED TO THE PROPOSED GRADE AND SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

32. SOIL EROSION MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL VEGETATION HAS BEEN RE-ESTABLISHED.

33. ALL PERMANENT SIGNS AND PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST REVISION OF THE MICHIGAN MUTCD MANUAL AND SHALL BE INCIDENTAL TO THE CONTRACT. 34. ACCESS ROADS TO SITE SHALL BE MAINTAINED DURING CONSTRUCTION.



OVERALL SITE MAP NO SCALE

ARCHITECT:

CONTACT: KARL VOLLMAR
PHONE: (810) 225-2930
E-MAIL: KARL@PV-ARCHITECTS.COM
PHONE: (248) 207-1984 CONTACT: KARL VOLLMAR

# PREPARED FOR OWNER:

PUCCI & VOLLMAR ARCHITECTS, PC SEASIDE SEAWALLS, LLC 508 E. GRAND RIVER AVE #100B 9868 EAST GRAND RIVER SUITES 110-225

E-MAIL: AARON@SEASIDESEAWALLS.COM

PREPARED BY:



3121 E. GRAND RIVER AVE. HOWELL, MI. 48843 800.246.6735 FAX 517.548.1670

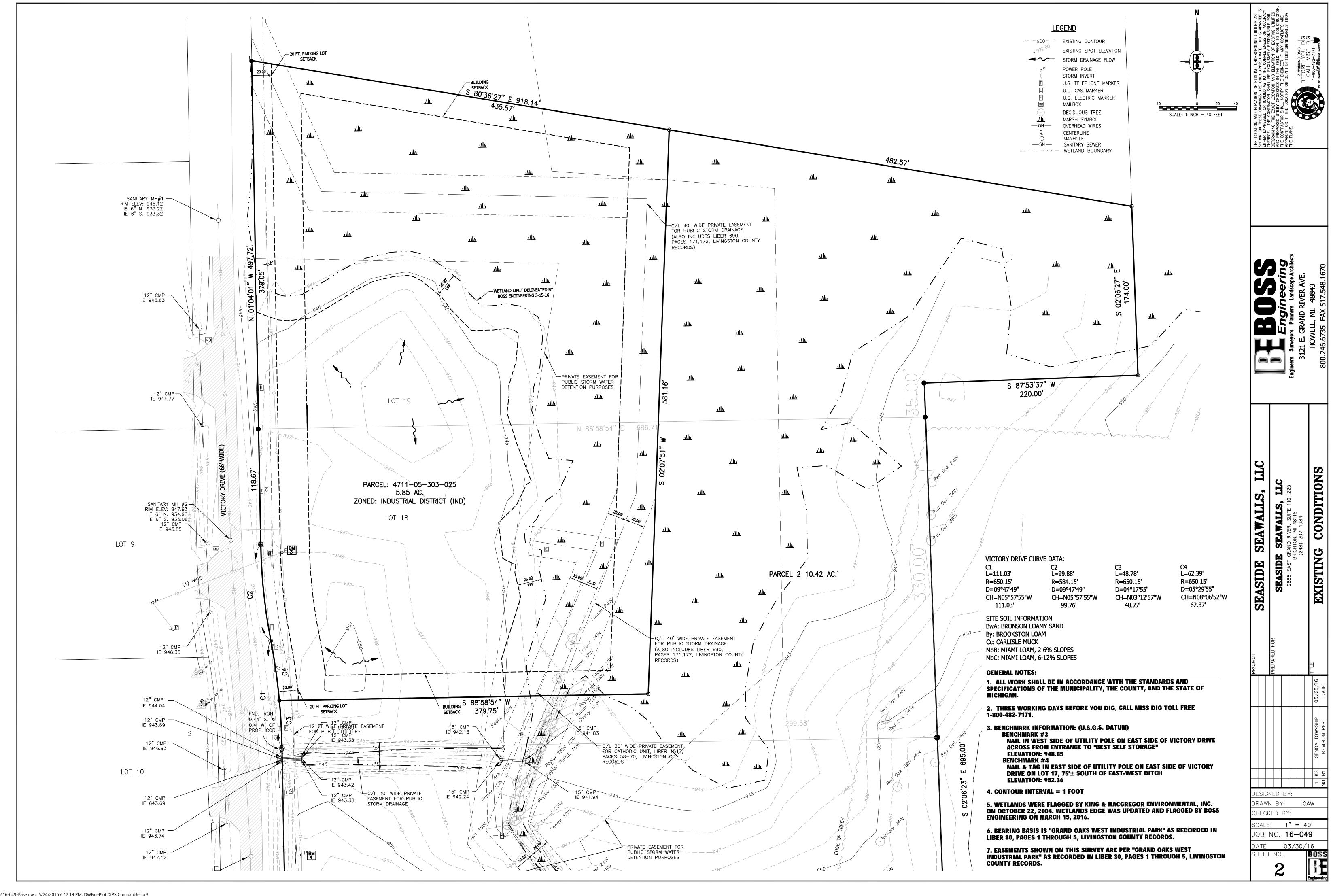
FOR SITE PLAN APPROVAL ONLY! NOT FOR CONSTRUCTION

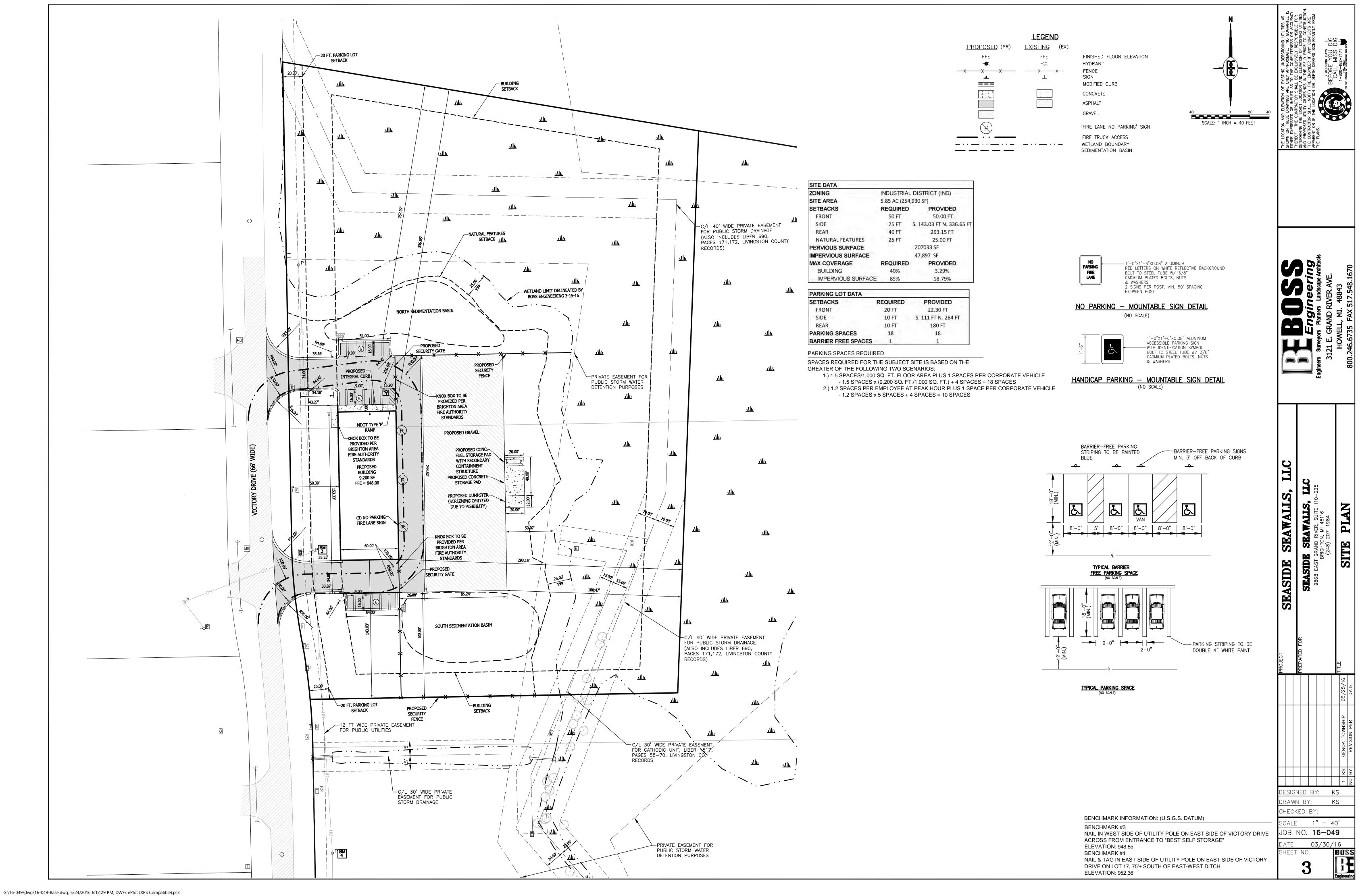
					1
					_
1	KS		GENOA TOWNSHIP	05/25/16	ISSUE DATE: 5/4/2016
N0	BY	CK	REVISION	DATE	JOB NO. 16-049

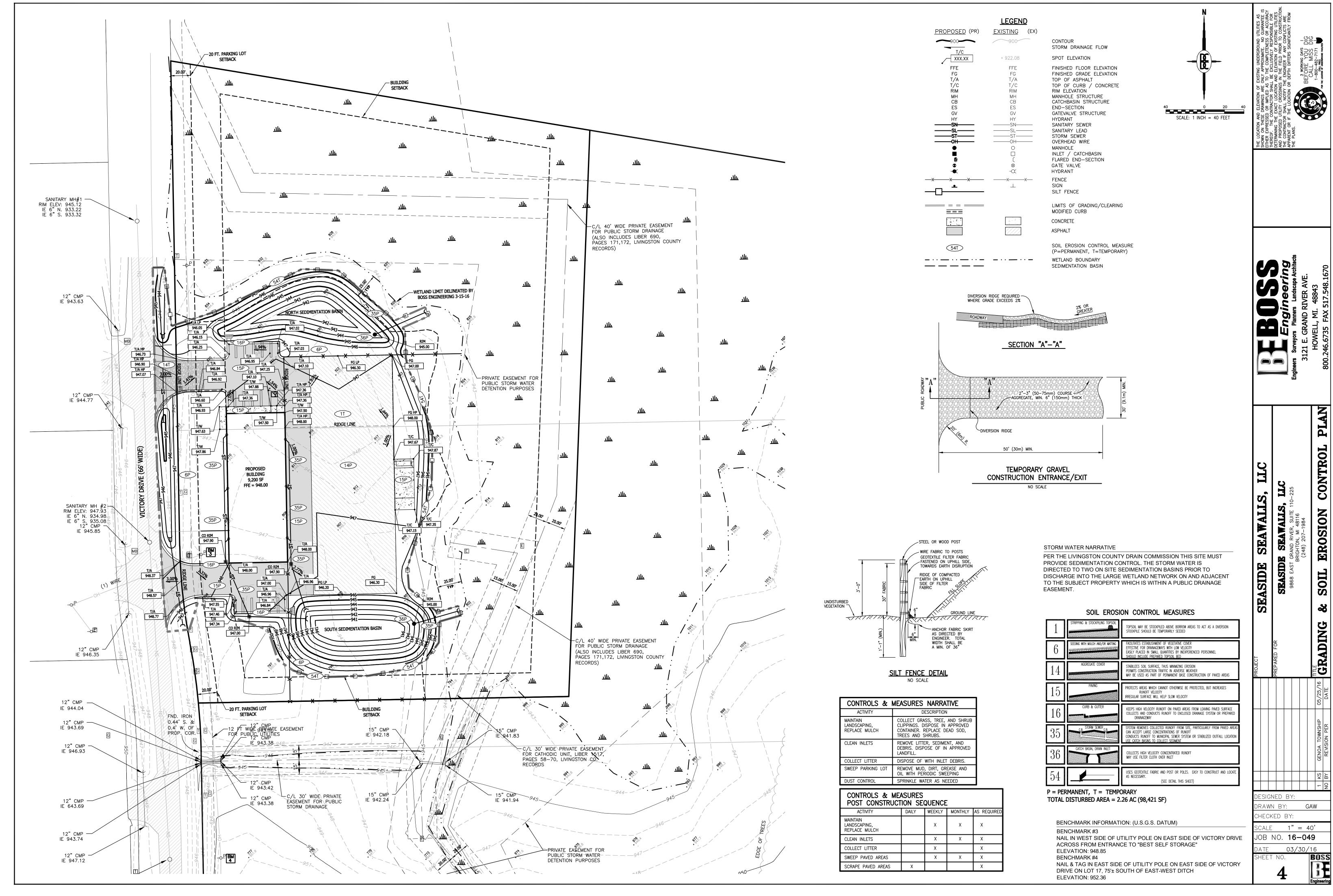
## INDEMNIFICATION STATEMENT

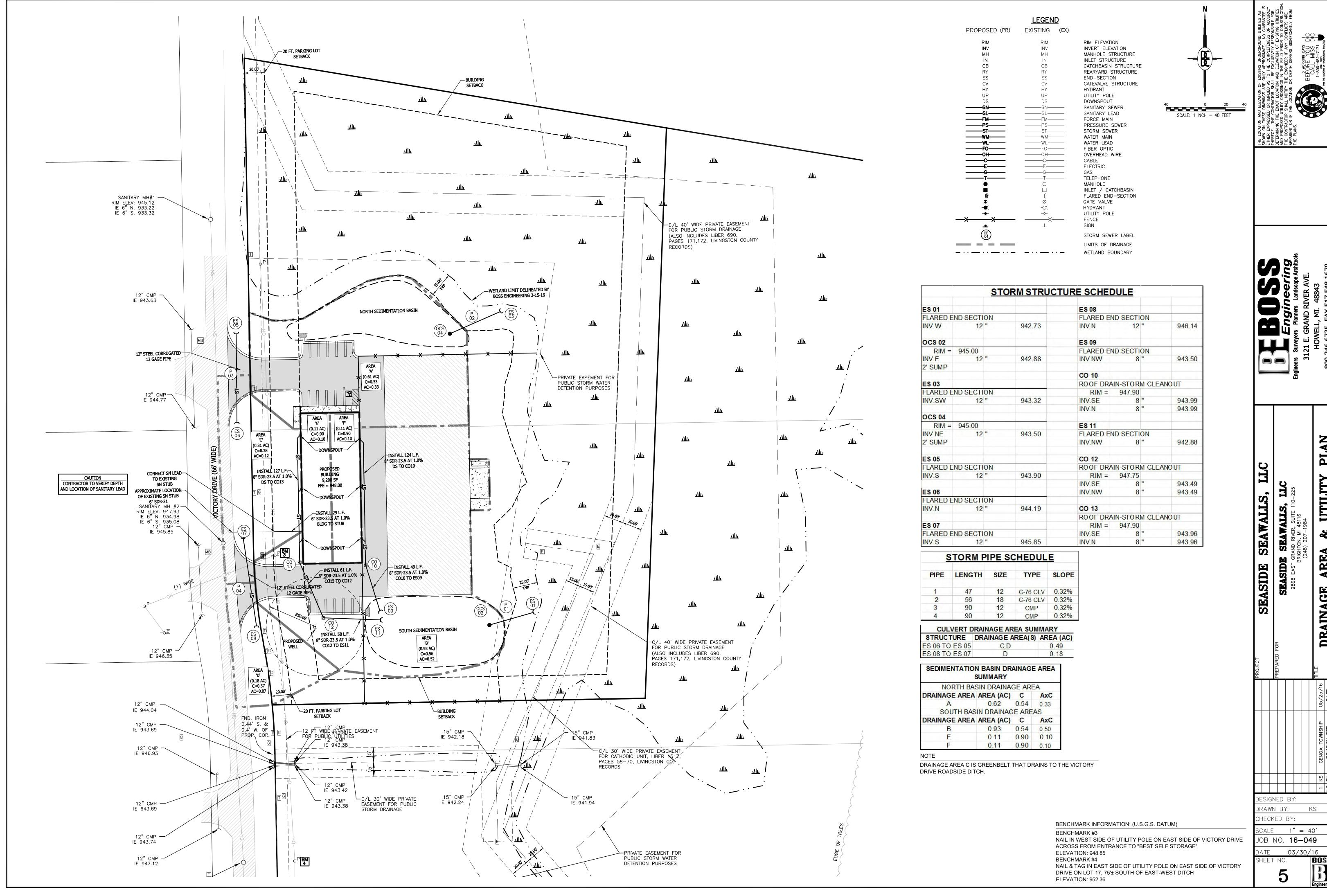
THE CONTRACTOR SHALL HOLD HARMLESS THE DESIGN PROFESSIONAL, MUNICIPALITY, COUNTY, STATE AND ALL OF ITS SUB CONSULTANTS, PUBLIC AND PRIVATE UTILITY COMPANIES. AND LANDOWNERS FOR DAMAGES TO INDIVIDUALS AND PROPERTY, REAL OR OTHERWISE, DUE TO THE OPERATIONS OF THE CONTRACTOR AND/OR THEIR SUBCONTRACTORS.

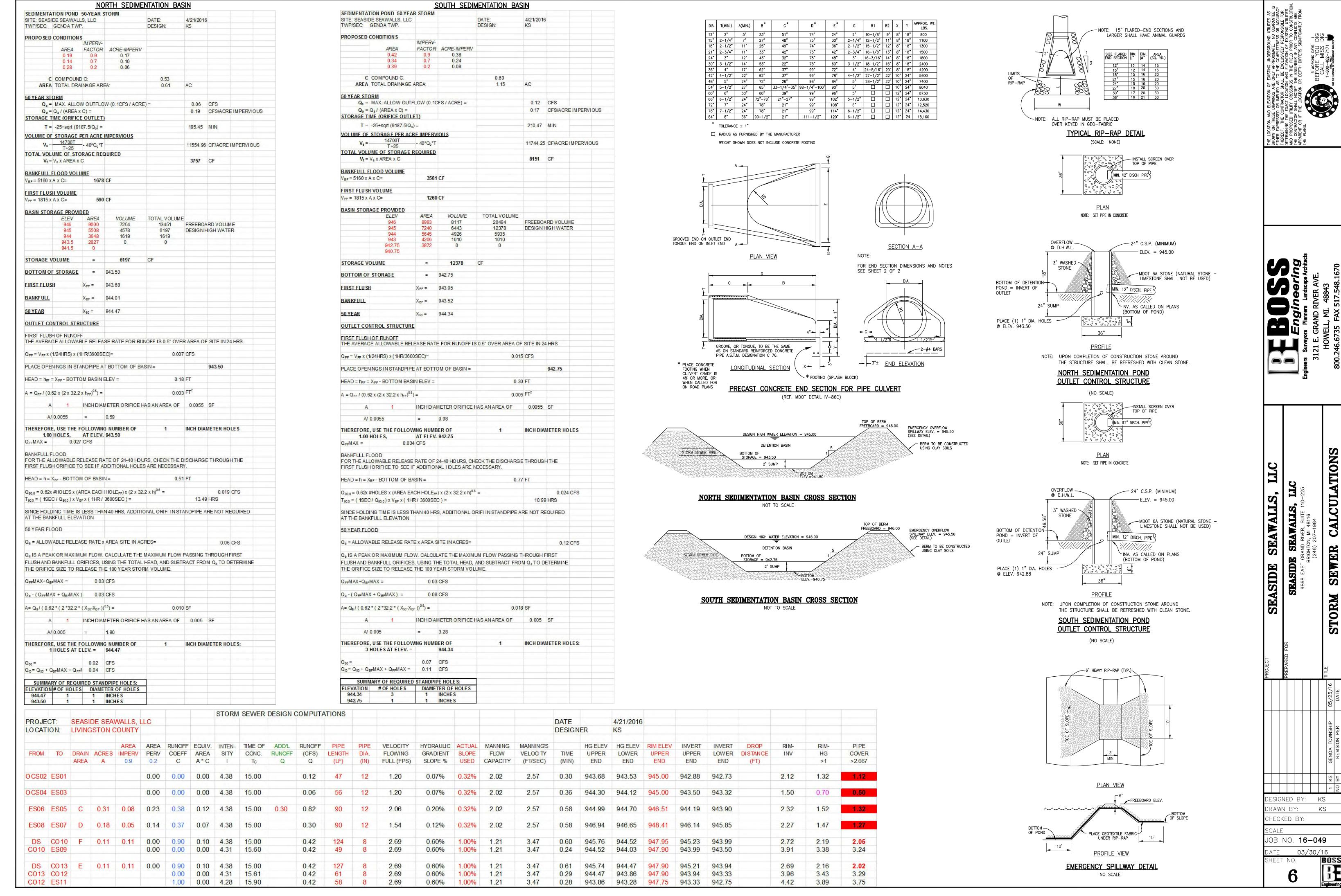
SHOWN ON THE PLANS.

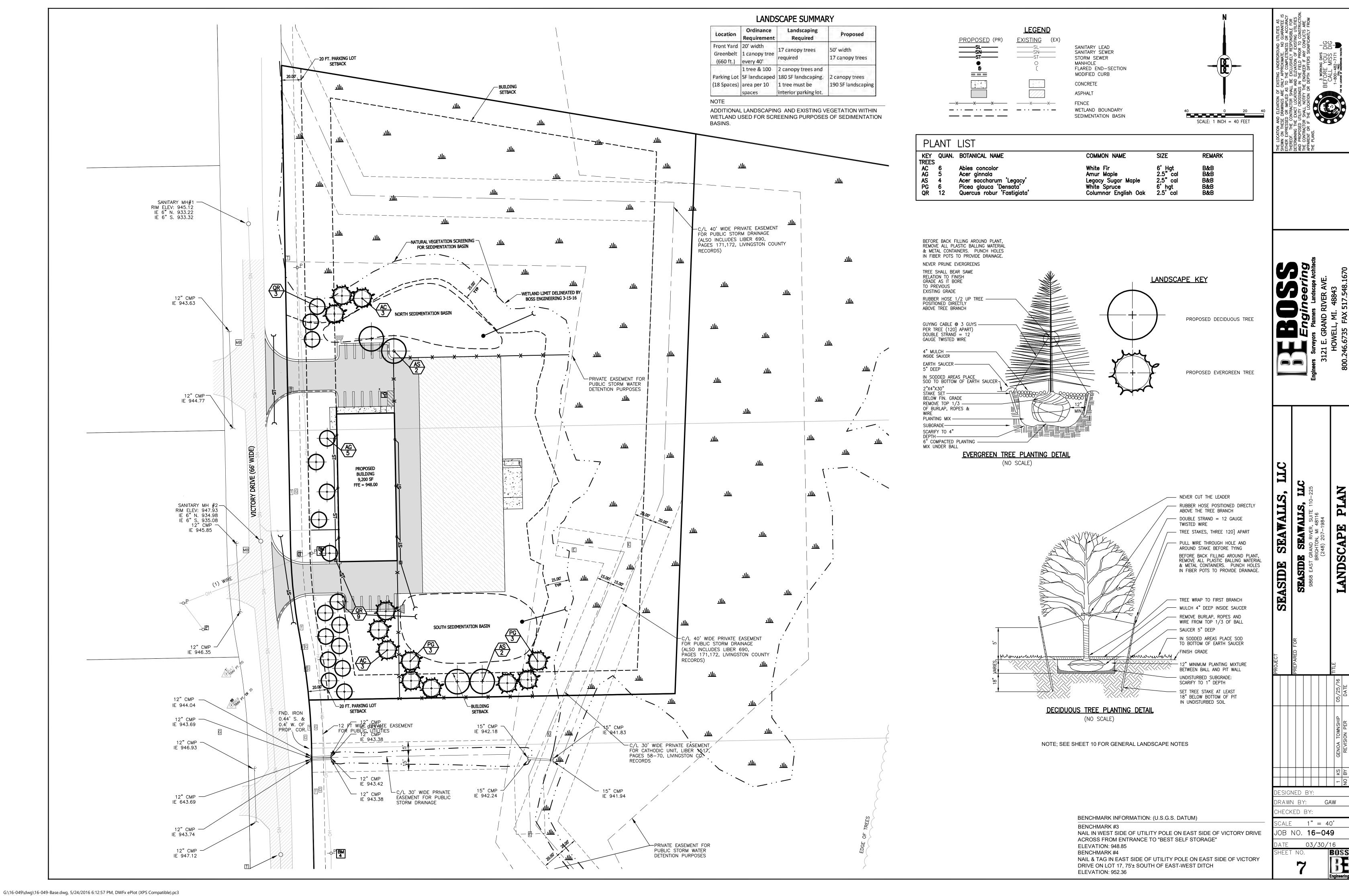


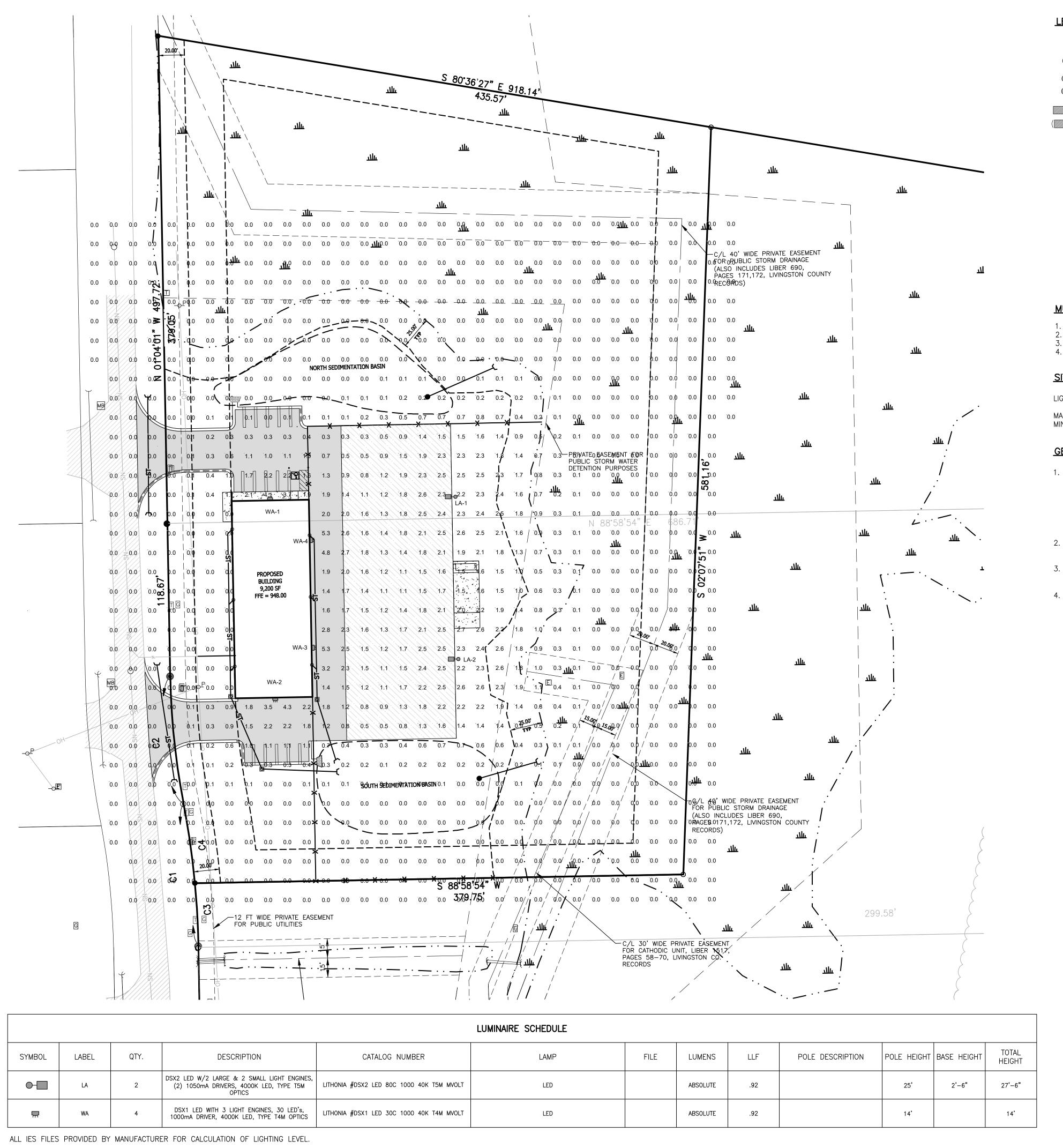


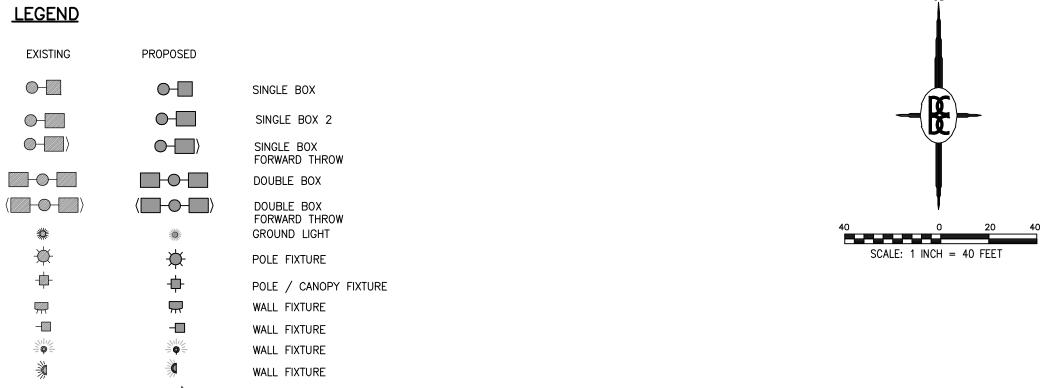












### MUNICIPAL REQUIREMENTS

MAXIMUM 0.5 FOOTCANDLE AT RESIDENTIAL LOT LINE.
 MAXIMUM 1.0 FOOTCANDLE AT NON-RESIDENTIAL LOT LINE.

FOOT CANDLES ON SITE

MAXIMUM 20 FT. HT. ADJACENT TO RESIDENTIAL
 MAXIMUM 30 FT. HT. ADJACENT TO NON-RESIDENTIAL

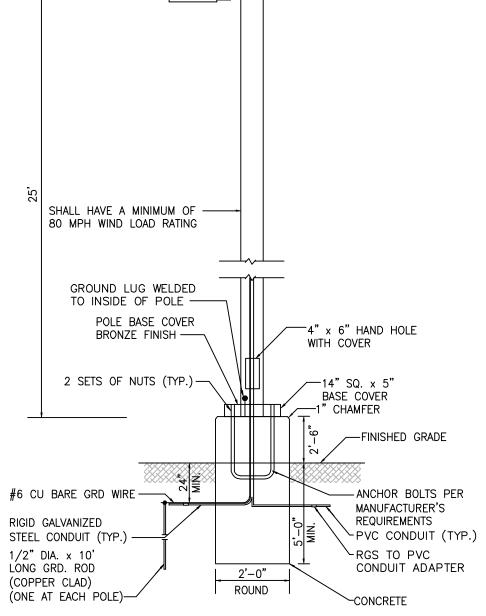
### SITE LIGHTING SUMMARY

LIGHTING LEVELS ARE SHOWN IN FOOTCANDLES AT GRADE

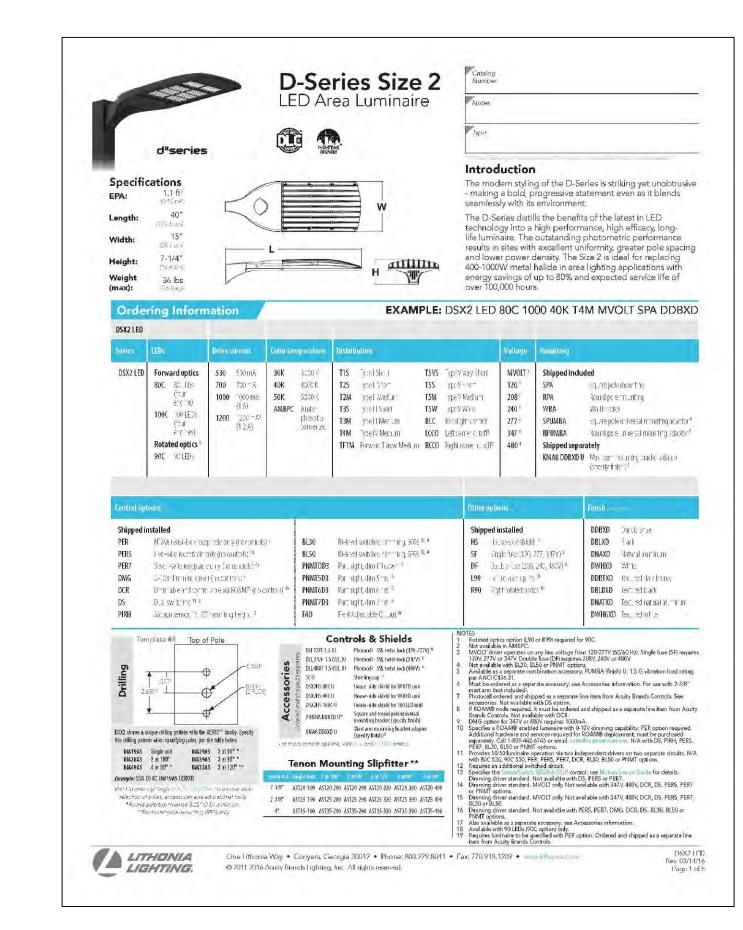
MAX. LIGHT LEVEL AT THE PROPERTY LINE: 0.00 FC. MIN. LIGHT LEVEL AT THE PROPERTY LINE: 0.00 FC.

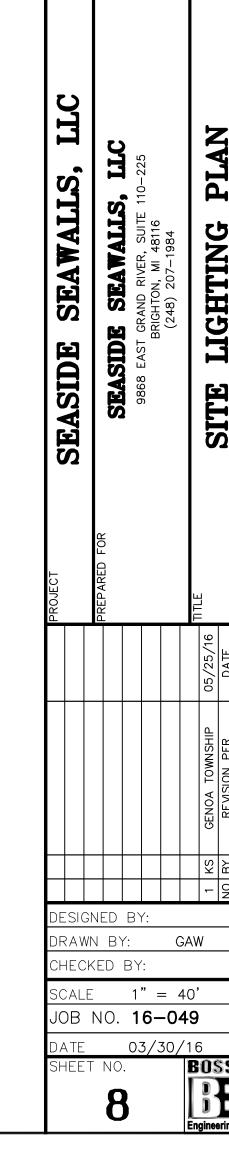
### GENERAL LIGHTING NOTES

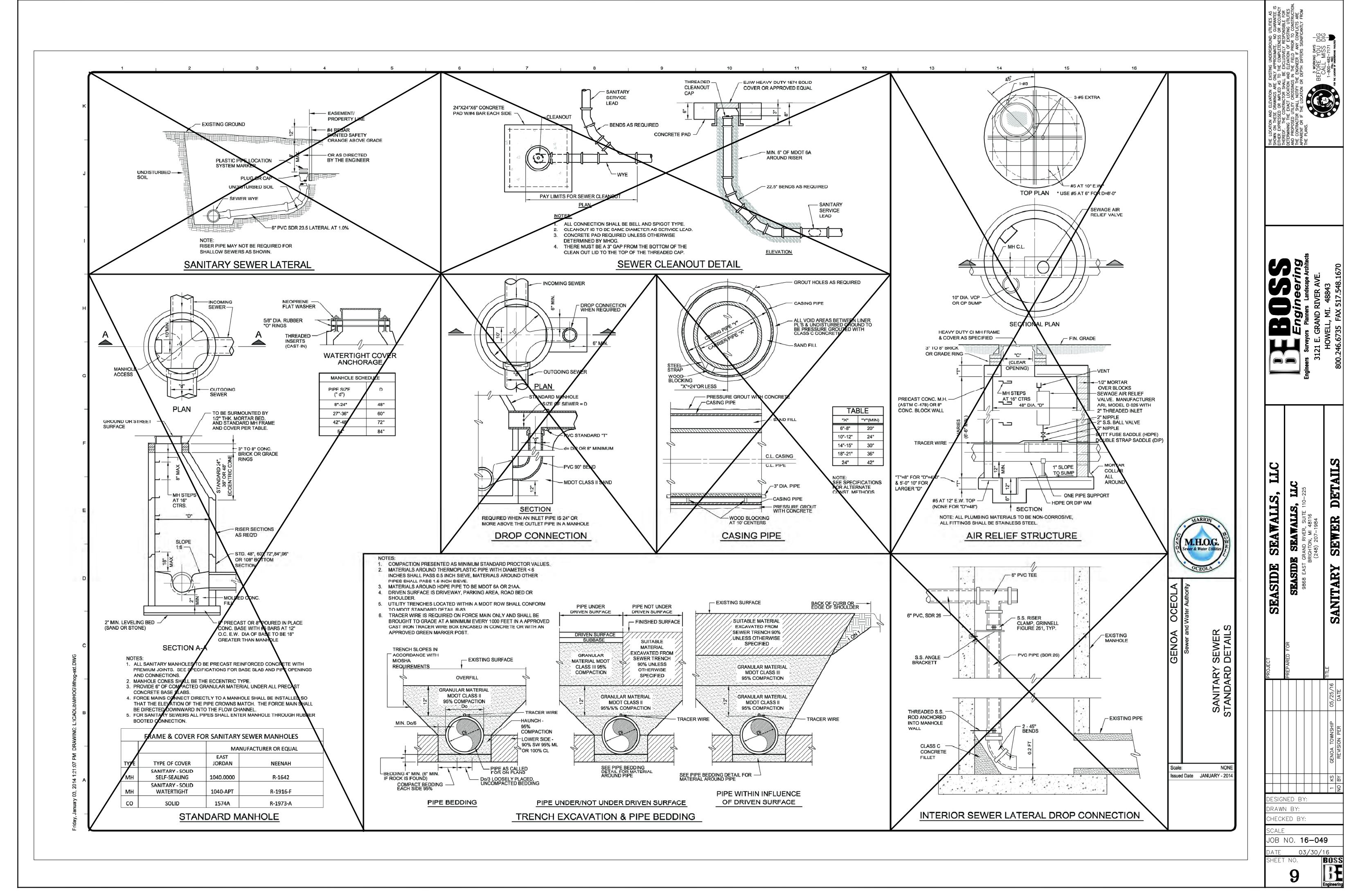
- 1. THE LIGHTING PATTERN REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY APPROVED METHODS. ACTUAL PERFORMANCE OF ANY MANUFACTURER'S LUMINAIRE MAY VARY DUE TO VARIATION IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER VARIABLE FIELD CONDITIONS.
- 2. ALL POLES ARE TO BE MOUNTED ON CONCRETE PEDESTALS 2' ABOVE GRADE IN PARKING LOTS AS SHOWN IN DETAIL.
- 3. ALL POLES LOCATED OUTSIDE OF THE PARKING AREA SHALL BE LOCATED 3' FROM BACK OF CURB OR EDGE OF SIDEWALKS.
- 4. SHOP DRAWINGS FOR THE ELECTRICAL WIRING OF THE POLES NEED TO BE SUBMITTED TO THE ENGINEER FOR COORDINATION OF UNDERGROUND CONDUIT AND APPROVAL OF LAYOUT.



BOX LIGHT FIXTURE DETAIL (TYP.)
(NO SCALE)







# LIVINGSTON COUNTY SOIL EROSION PERMIT TEMPLATE TEMPORARY CONTROLS AND SEQUENCE

1. NOTIFY LIVINGSTON COUNTY DRAIN COMMISSIONER'S OFFICE 24 HOURS PRIOR TO START OF GRADE WORK.

2. IN ACCORDANCE WITH PUBLIC ACT NO. 53, OF 1974 THE PERMIT HOLDER SHALL CALL MISS DIG FOR STAKING AND LOCATING OF UTILITIES, AT LEAST 72 HOURS IN ADVANCE OF THE START OF ANY WORK.

### PERMITTING STANDARDS

3. 36" M.D.O.T SPECIFICATION TYPE SILT FABRIC FENCE AS SHOWN ON PLANS SHALL BE PLACED AND MAINTAINED ALONG PERIMETER ON ALL LOW LYING AREAS OF THE CONSTRUCTION SITE TO FILTER RUNOFF BEFORE LEAVING PROJECT SITE.

4. ALL TEMPORARY EROSION CONTROL DEVICES AS NOTED ON PLANS SHALL BE INSTALLED PRIOR TO THE START OF MASSIVE EARTH DISTRIBUTION.

5. PLAN DOES DENOTE A DETAILED EROSION CONTROL DEVICE TO RESTRICT TRACKING OF MATERIAL ONTO THE HIGHWAY. STONE DIAPERS SHALL BE INSTALLED AT ALL INGRESS/EGRESS AREAS OF THE SITE PRIOR TO THE START OF MASSIVE EARTH DISRUPTION. DIAPERS SHALL BE OF CRUSHED STONE AND SHALL HAVE A MINIMUM LENGTH OF 100' LINEAL FEET.

### SLOPES

6. SLOPES IN EXCESS OF 3 HORIZONTAL TO 1 VERTICAL SHALL NOT BE USED EXCEPT WITH A MECHANICAL DEVICE SUCH AS A RETAINING WALL, TERRACING, OR OTHER PRIOR APPROVED DEVICE.

### STORM DRAINS

7. ALL STORM WATER STRUCTURES, CATCH BASINS AND/OR MANHOLES, IF BLOCK, SHALL BE PLASTERED ON BOTH THE INSIDE AND OUTSIDE OF THE STRUCTURES. GROUTING AND POINTING WILL BE NECESSARY AT THE CASTING AND STRUCTURE JOINT TO PREVENT LEAKAGE AND THE RESULTING SOIL MOVEMENT, AROUND THE STRUCTURE.

8. STORM WATER INLETS SHALL HAVE AS A TEMPORARY CONTROL A STRAW BALE BARRIER AND STONE FILTER INSTALLED AROUND THE INLET DURING CONSTRUCTION. AS AN ALTERNATIVE TO THE STRAW BALE BARRIER, A BURLAP AND PEA STONE FILTER MAY BE USED. THREE LAYERS OF BURLAP FIBER AND A FILTER OF PEA STONE MINIMUM 1 FT. IN DEPTH CAN BE USED. DUE TO THE POROSITY OF THE BURLAP FILTER THE MINIMUM OF 1 FT. OF STONE IS VERY IMPORTANT. THE CONTROL SHALL BE INSTALLED AS SOON AS THE STRUCTURE IS BUILT AND INSPECTED DAILY.

9. BURLAP AND PEA STONE FILTERS WILL NEED TO BE CHANGED AFTER EACH RAINFALL.

10. COUNTY CODE REQUIRES A MINIMUM PIPE SIZE OF 12" IN DIAMETER. IF SMALLER PIPE IS NEEDED FOR OUTLET PURPOSES THE 12" CAN BE BAFFLED TO THE CORRECT SIZE. ALL PIPE SHALL MEET THE 12" DIAMETER CODE SIZE.

11. ALL STORM DRAINAGE PIPE 30" IN DIAMETER OR LARGER SHALL BE POINTED, AT THE JOINTS ON THE INSIDE WITH MORTAR, AFTER BACKFILLING.

12. IT WILL BE NECESSARY FOR THE DEVELOPER TO HAVE THE STORM DRAINAGE LINES CLEANED PRIOR TO FINAL INSPECTION BY THE LIVINGSTON COUNTY DRAIN COMMISSIONER'S OFFICE. IF REQUIRED, THIS WORK SHALL BE DONE BY A PROFESSIONAL SEWER CLEANING FIRM AND CERTIFIED IN WRITING BY THE PROJECT ENGINEER. ALL SUMPS AND TEMPORARY SILT TRAPS SHALL ALSO BE CLEANED AT THIS TIME.

13. ALL UNIMPROVED DISTURBED AREAS SHALL BE RE—TOP SOILED, WITH A MINIMUM OF 3" OF MATERIAL, SEEDED, MULCHED AND TACKED WITHIN 15 DAYS OF THE COMPLETION OF THE MASSIVE EARTH DISRUPTION. IN THE NON—GROWING SEASON STRAW MATTING WILL SUFFICE. HYDROSEEDING WILL BE AN ACCEPTABLE ALTERNATE FOR MULCHING. EXTREME CARE SHOULD BE EXERCISED IN SPRING AND FALL PERIODS AS A FROST WILL BREAK THE BIND OF THE HYDROSEEDING, WHICH WILL AFFECT THE

EFFECTIVENESS OF THIS PROCEDURE.

14. IN THE NON-GROWING SEASON, TEMPORARY STABILIZATION OF MASSIVELY EXPOSED AREAS FOR WINTER STABILIZATION SHALL BE DONE WITH STRAW MATTING.

15. PERMIT FEES DURING THE WINTER PERIOD OF NON-CONSTRUCTION, (DECEMBER 1 THROUGH MARCH 31), SHALL NOT BE IMPOSED IF THE PERMIT HOLDER TEMPORARILY STABILIZES THE EXPOSED AREAS WITH STRAW MATTING, AND OTHER APPROVED CONTROLS, AND OBTAINS A WINTER STABILIZATION CERTIFICATE FROM THIS OFFICE.

16. PERIODIC INSPECTIONS WILL BE MADE THROUGHOUT THE COURSE OF THE PROJECT. IT WILL BE THE RESPONSIBILITY OF THE MANAGERS OF THE PROJECT TO CONTACT THIS OFFICE FOR THE FINAL INSPECTION AT THE END OF THE PROJECT.

17. THIS COMMERCIAL PERMIT IS VALID FOR THE MASS EARTH MOVEMENT, THE INSTALLATION OF ROADS, DRAINS, AND UTILITIES AND IS NOT FOR ANY SINGLE FAMILY RESIDENCE. ALL RESIDENTIAL BUILDERS WILL NEED TO SECURE WAIVERS AND OR PERMITS AS NECESSARY FOR EACH LOT IN THIS DEVELOPMENT AT THE TIME APPLICATION FOR SINGLE FAMILY RESIDENCE IS MADE.

18. THE ISSUING BUILDING DEPARTMENT SHALL NOT ISSUE THE CERTIFICATE OF OCCUPANCY UNTIL THE FINAL INSPECTION LETTER FROM THE LIVINGSTON COUNTY DRAIN COMMISSIONER'S OFFICE HAS BEEN OBTAINED.

19. PER THE LIVINGSTON COUNTY DRAIN COMMISSIONER THE SEEDING, FERTILIZER AND MULCH MINIMUM QUANTITIES SHALL BE AS FOLLOWS:

TOP-SOIL 3" IN DEPTH

GRASS SEED 210 LBS. PER ACRE

FERTILIZER 150 LBS. PER ACRE
STRAW MULCH
3" IN DEPTH 1.5 TO 2 TONS PER ACRE (ALL
MULCHING MUST HAVE A TIE DOWN, SUCH AS TACKIFIER,

NET BINDING, ETC.)

HYDRO-SEEDING HYDRO-SEEDING IS NOT ACCEPTABLE FOR SLOPES
EXCEEDING 1%, IN SUCH CASES STABILIZATION SHALL
BE DONE WITH SEED AND STRAW MULCH WITH A

# TACKIFIER. SANITARY SEWERS

SAFETY.

20. SANITARY SEWER TAP TO THE LIVINGSTON SANITARY COUNTY DRAIN, SHALL ONLY BE MADE AFTER SECURING IN WRITING CLEARANCE FROM GENOA TOWNSHIP AND A SEWER TAP PERMIT FROM THE LIVINGSTON COUNTY DEPARTMENT OF BUILDING &

21. A TAP PERMIT WILL BE NEEDED BY THE OWNER/DEVELOPER OF THIS PROJECT TO TAP TO THE LEGALLY ESTABLISHED COUNTY STORM DRAIN. THE OWNER/DEVELOPER SHALL MAKE A WRITTEN REQUEST TO THE DRAIN COMMISSIONER TO REQUEST THE TAP TO THE STORM SEWER. THE FEES FOR SUCH TAP ARE AS FOLLOWS:

A. NON REFUNDABLE ADMINISTRATIVE FEE OF \$50.00, TO BE PAID AT THE TIME OF APPLICATION.

B. INSPECTION FEES ARE BASED ON TIME AND MATERIAL BASIS FROM PORT TO PORT FOR THE ON—SITE INSPECTOR. INSPECTORS RATE, VEHICLE MILEAGE, AND 0.5 HOURS OF REPORT PREPARATION TIME WILL BE CHARGED, AS WELL AS ANY NECESSARY MATERIALS. TIME AND MATERIAL FEES ARE PAID AT THE COMPLETION OF THE TAP INSTALLATION.

### **GENERAL LANDSCAPE NOTES:**

1. ALL PLANT MATERIAL SHALL CONFORM TO THE REQUIREMENTS AND SPECIFICATIONS OF THE GOVERNING MUNICIPALITY AND SHALL BE NURSERY GROWN. ALL SIZES AND MEASUREMENTS SHALL CONFORM TO THE AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS. ALL PLANT MATERIAL SHALL BE OF SELECTED SPECIMEN QUALITY AND HAVE A NORMAL HABIT OF GROWTH. ALL PLANT MATERIAL IS SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT.

2. ALL PLANT MATERIALS SHALL BE BALLED AND BURLAPPED STOCK OR CONTAINER STOCK. NO BARE ROOT STOCK IS PERMITTED. ALL PLANT BALLS SHALL BE FIRM, INTACT AND SECURELY WRAPPED AND BOUND.

3. ALL PLANT BEDS SHALL BE EXCAVATED OF ALL BUILDING MATERIALS AND OTHER EXTRANEOUS OBJECTS AND POOR SOILS TO A MINIMUM DEPTH OF 12 INCHES AND BACKFILLED TO GRADE WITH PLANTING MIX (SEE BELOW).

4. PLANTING MIXTURE SHALL CONSIST OF 4 PARTS TOPSOIL FROM ON SITE,
1 PART PEAT, AND 5 POUNDS OF SUPERPHOSPHATE PER CUBIC YARD OF MIX.
INGREDIENTS SHALL BE THOROUGHLY BLENDED TO A UNIFORM CONSISTENCY.

5. ALL PLANT BEDS AND INDIVIDUAL PLANTS SHALL BE MULCHED WITH A 4 INCH LAYER OF SHREDDED BARK MULCH.

6. ALL PLANTS AND PLANT BEDS SHALL BE THOROUGHLY WATERED UPON COMPLETION OF PLANTING AND STAKING OPERATIONS.

7. THE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIALS FOR A PERIOD OF 1 YEAR FROM THE DATE THE WORK IS ACCEPTED, IN WRITING, BY THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL REPLACE, WITHOUT COST TO THE OWNER, WITHIN A SPECIFIED PERIOD TIME, ALL DEAD PLANTS, AND ALL PLANTS NOT IN A VIGOROUS, THRIVING CONDITION, AS DETERMINED BY THE LANDSCAPE ARCHITECT DURING AND AT THE END OF THE GUARANTEE PERIOD. REPLACEMENT STOCK SHALL CONFORM TO THE ORIGINAL REQUIREMENTS.

8. EDGING, WHERE NOTED ON THE PLANS, SHALL BE BLACK ALUMINUM EDGING, 3/16" X 4". INSTALL PER MANUFACTURER'S INSTRUCTIONS. ALL EDGING SHALL BE INSTALLED IN STRAIGHT LINES OR SMOOTH CURVES WITHOUT IRREGULARITIES.

9. SOD SHALL BE DENSE, WELL ROOTED TURF, FREE OF WEEDS. IT SHALL BE COMPRISED OF A BLEND OF AT LEAST TWO KENTUCKY BLUEGRASSES AND ONE FESCUE. IT SHALL HAVE A UNIFORM THICKNESS OF 3/4 INCH, AND CUT IN UNIFORM STRIPS NOT LESS THAN 10 INCHES BY 18 INCHES. SOD SHALL BE KEPT MOIST AND LAID WITHIN 36 HOURS AFTER CUTTING.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH A
DENSE LAWN OF PERMANENT GRASSES, FREE OF LUMPS AND DEPRESSIONS.
ALL SODDED AREAS THAT BROWN OUT OR HAVE NOT FIRMLY KNITTED TO
THE SOIL BASE WITHIN A PERIOD OF ONE MONTH SHALL BE REPLACED BY
THE CONTRACTOR, AT NO COST TO THE OWNER.

10. ALL AREAS OF THE SITE THAT BECOME DISTURBED DURING CONSTRUCTION AND ARE NOT TO BE PAVED, STONED, LANDSCAPED, OR SODDED SHALL BE SEEDED AND MULCHED.

SEED MIXTURE SHALL BE AS FOLLOWS:

KENTUCKY BLUEGRASS (CHOOSE 3 VARIETIES: ADELPHI, RUGBY, GLADE OR PARADE)
RUBY RED OR DAWSON RED FINE FESCUE

IRRIGATION SYSTEM.

ATLANTA RED FESCUE

ANALYSIS:

PENNFINE PERENNIAL RYE

20%

THE ABOVE SEED MIXTURE SHALL BE SOWN AT A RATE OF 250 POUNDS PER ACRE. PRIOR TO SEEDING, THE TOPSOIL LAYER SHALL BE FERTILIZED WITH A COMMERCIAL FERTILIZER WITH A 10-0-10

30%

30%

20%

10% NITROGEN: A MINIMUM OF 25% FROM A UREAFORMALDEHYDE SOURCE 0% PHOSPHATE 10% POTASSI TO BE POTASSIUM SULFATE OR POTASSIUM NITRATE.

THE FIRST FERTILIZER APPLICATION SHALL BE AT A RATE OF 10 POUNDS OF BULK FERTILIZER PER 1000 SQUARE FEET.

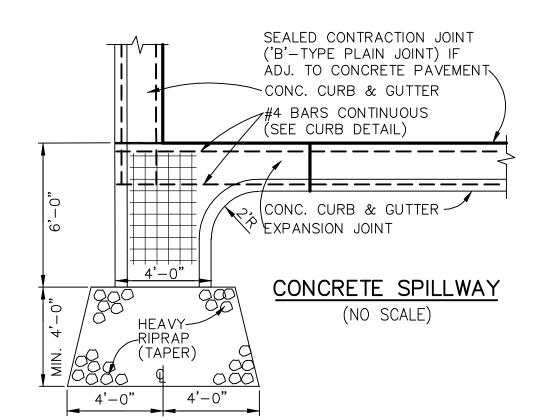
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH A
DENSE LAWN OF PERMANENT GRASSES, FREE OF LUMPS AND DEPRESSIONS.
ANY PART OF THE AREA THAT FAILS TO SHOW A UNIFORM GERMINATION
SHALL BE RESEEDED AND SUCH RESEEDING SHALL CONTINUE UNTIL A
DENSE LAWN IS ESTABLISHED. DAMAGE TO SEEDED AREAS RESULTING FROM
EROSION SHALL BE REPAIRED BY THE CONTRACTOR.

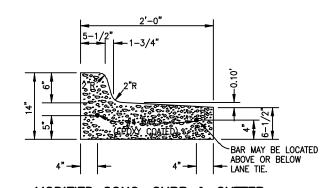
11. ALL AREAS OF THE SITE SCHEDULED FOR SEEDING OR SODDING
SHALL FIRST RECEIVE A 4 INCH LAYER OF CLEAN, FRIABLE TOPSOIL.
THIS SOIL SHALL BE DISCED AND SHALL BE GRADED IN CONFORMANCE
WITH THE GRADING PLAN.

12. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL UTILITIES AND TO INFORM THE LANDSCAPE ARCHITECT OF ANY CONFLICTS PRIOR TO COMMENCING LANDSCAPING.

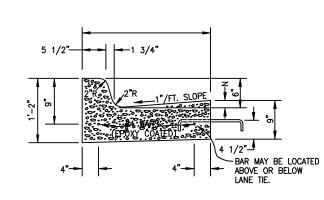
13. ALL PLANT MATERIALS SHALL BE FREE OF WEEDS, INSECTS AND DISEASE.

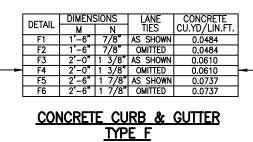
14. ALL LANDSCAPE AREAS ARE TO IRRIGATED WITH AN AUTOMATIC UNDERGROUND



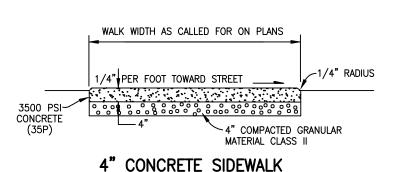


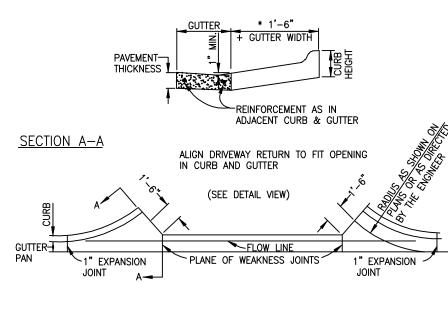
(NO SCALE)





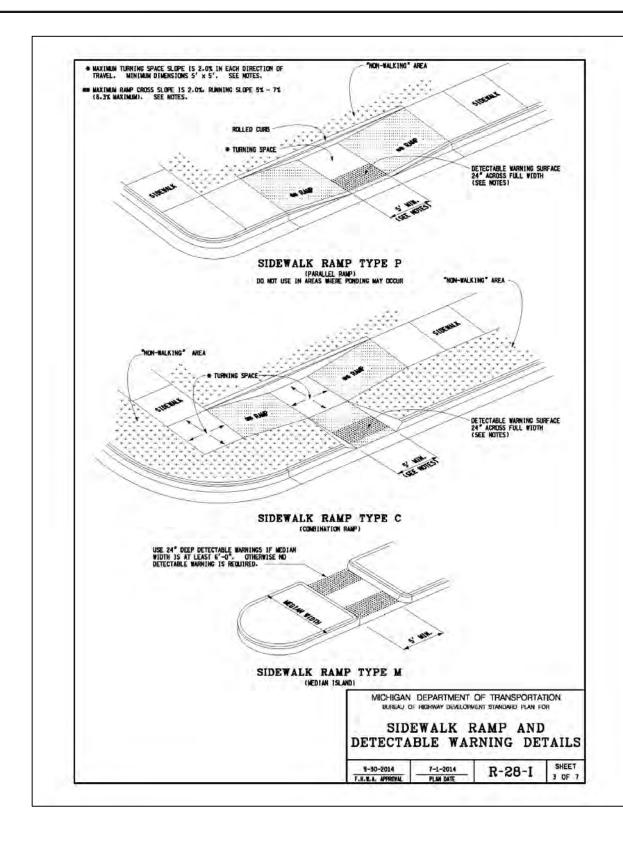
(NO SCALE)

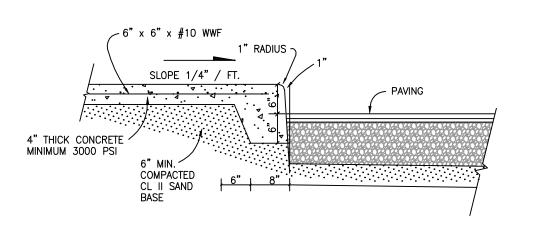




\* TO EDGE OF GUTTER OR FACE
OF INTEGRAL CURB.

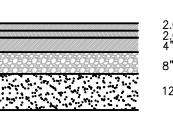
CONCRETE DRIVEWAY OPENING —
MDOT STANDARD II—42, DETAIL M"





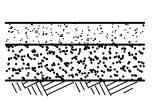
INTEGRAL CONCRETE WALK / CURB DETAIL

(NO SCALE)



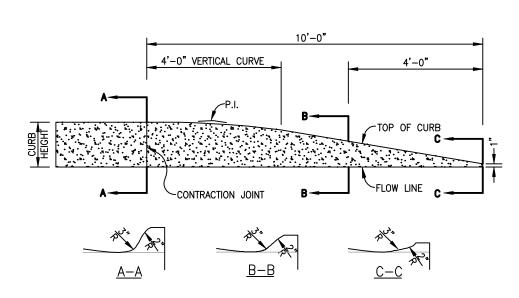
2.0" MDOT 1500T 2.0" MDOT 1500L 4" BITUMINOUS BASE 8" 21AA GRAVEL 12" MDOT CLASS II SAND SUBBASE

HEAVY DUTY ASPHALT SECTION
(NO SCALE)

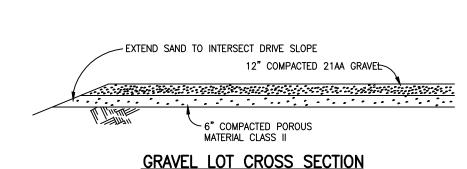


8" CONCRETE - 3500 PSI
8" 21AA GRAVEL
COMPACTED SUBBASE

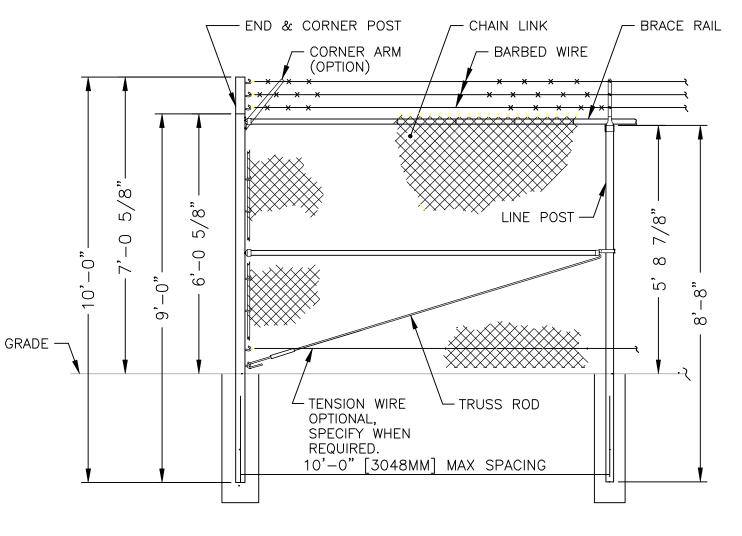
CONCRETE PAVEMENT CROSS SECTION
(NO SCALE)



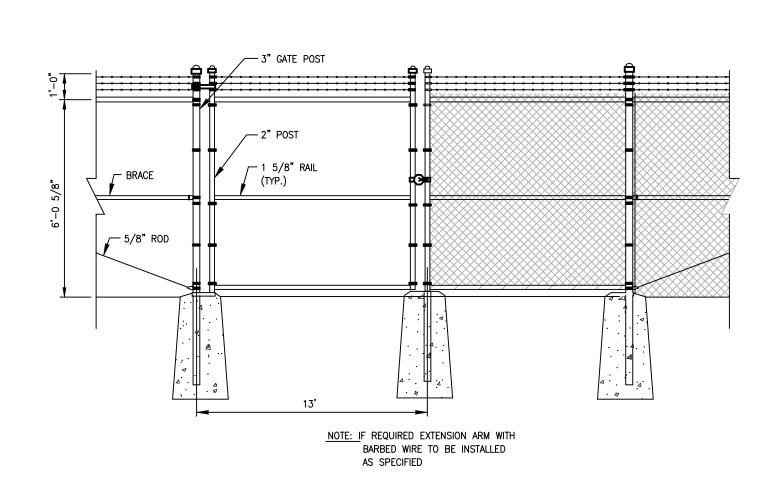
CONCRETE CURB AND GUTTER ENDINGS



(NO SCALE)



FENCE SECTION ELEVATION
WITH TOP RAIL & WITH BARBED WIRE



CHAINLINK FENCE (SINGLE) SWING GATE DETAIL

SCALE: NONE

| SEASIDE SEAWALLS, LLC |
| SEASIDE SEAVING |
| SEASIDE SEAWALLS, LLC |
| SEAS SEAWA

03/30/16

# 2012 MICHIGAN BUILDING CODE NOTES:

NON-SEPARATED MIXED USE GROUPS (508.3) OF: BUSINESS = B (304) AND WAREHOUSING = S-I (311.2)

ALLOWABLE HEIGHT AND AREA (TABLE 503)

WORST CASE SCENARIO (508.3.2) OF USE GROUPS (B) AND (S-I)

AND A CONSTRUCTION TYPE = 5B (602.5)

ALLOWABLE HEIGHT = I STORY / 40' MAX.

PROPOSED HEIGHT = I STORY / 23'-4" (COMPLIES)

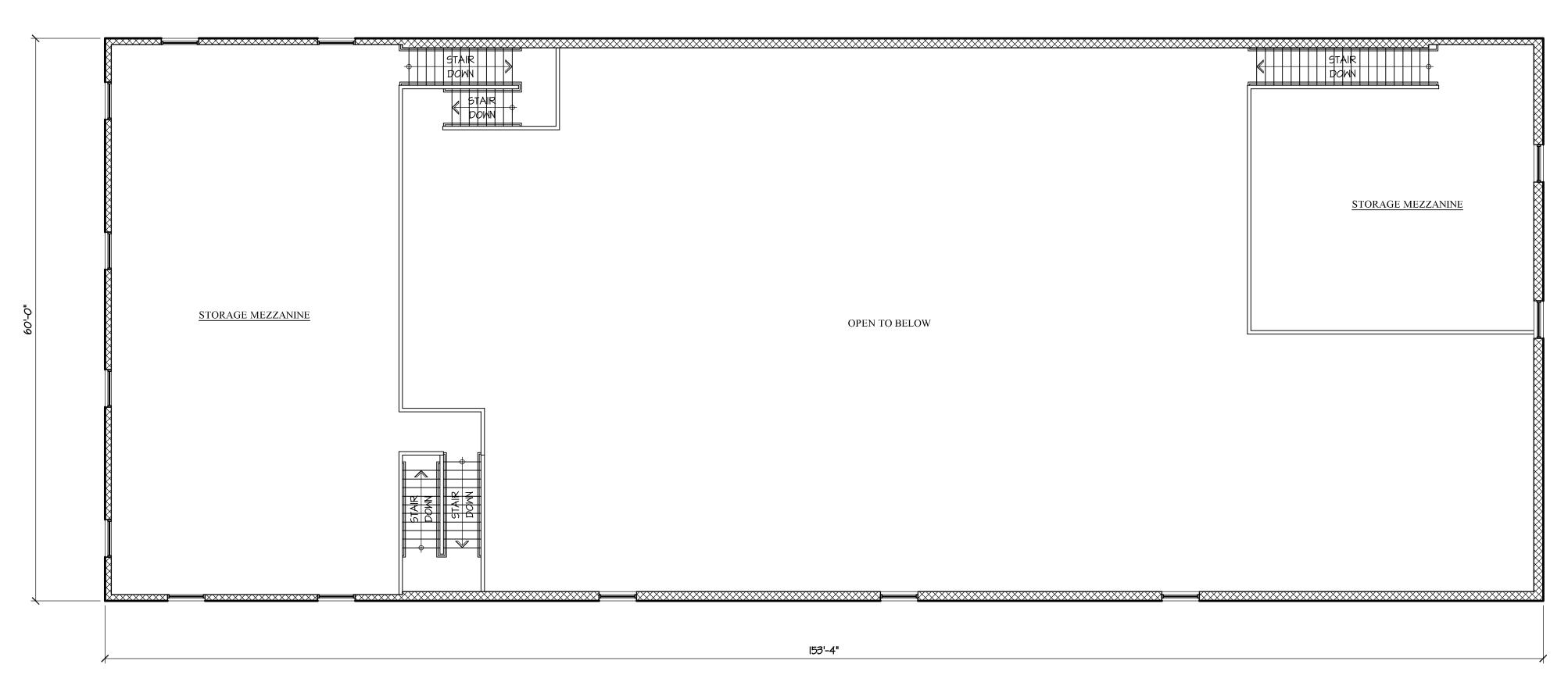
ALLOWABLE AREA = 9,000 GSF

PROPOSED AREA = 8,777 GSF (PER THE BLDG. CODE - COMPLIES)

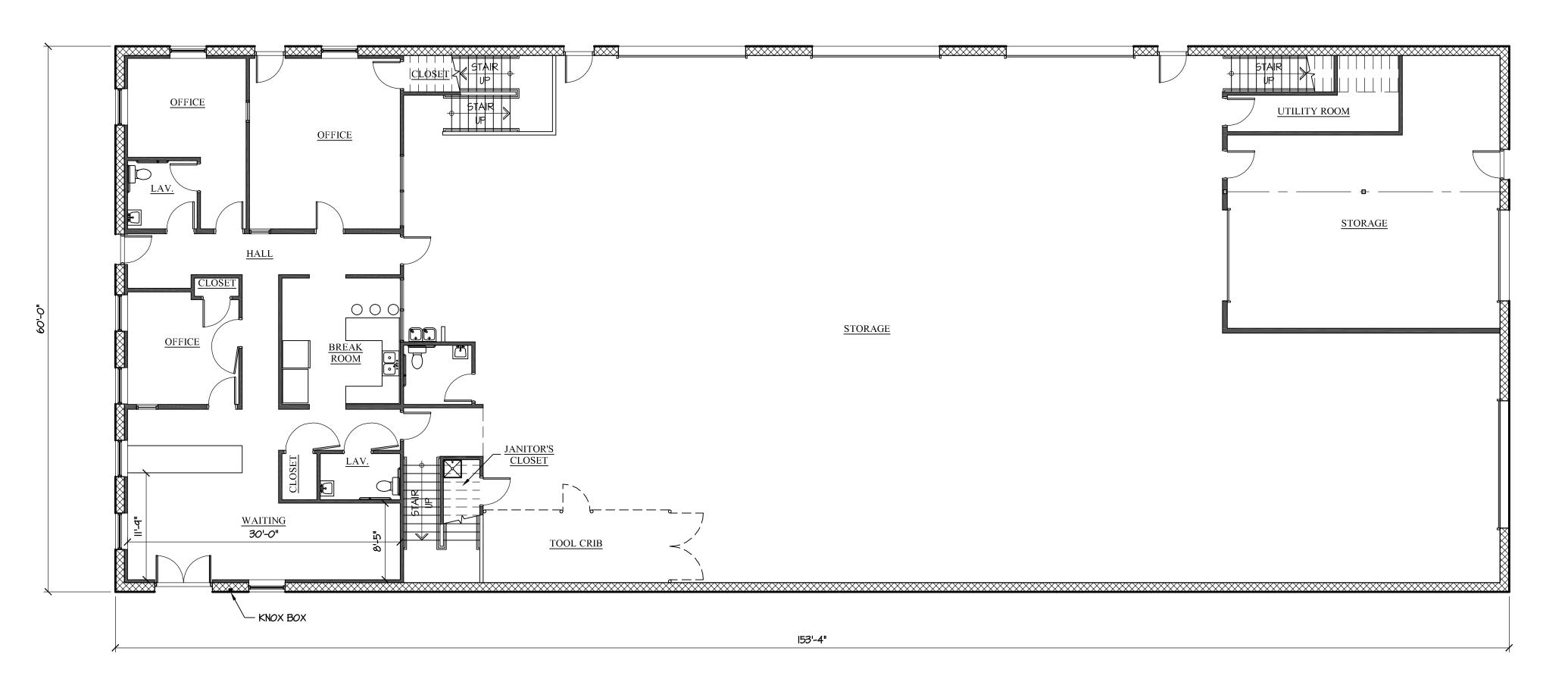
THE BUILDING IS <u>NOT</u> REQUIRED TO BE EQUIPPED WITH AN NFPA-13 FIRE SUPPRESSION SYSTEM PER: 403.2 FOR USE GROUP (B), 903.2 FOR USE GROUP (S-I)

ALL STORAGE SHALL BE LIMITED TO 12' HIGH MAX.

A FIRE ALARM SYSTEM IS <u>NOT</u> REQUIRED PER: 907.2.2 FOR USE GROUP (B) AND 907.2 FOR USE GROUP (S-I)





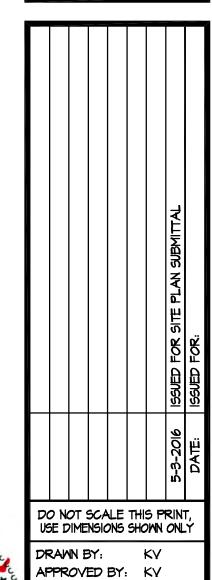




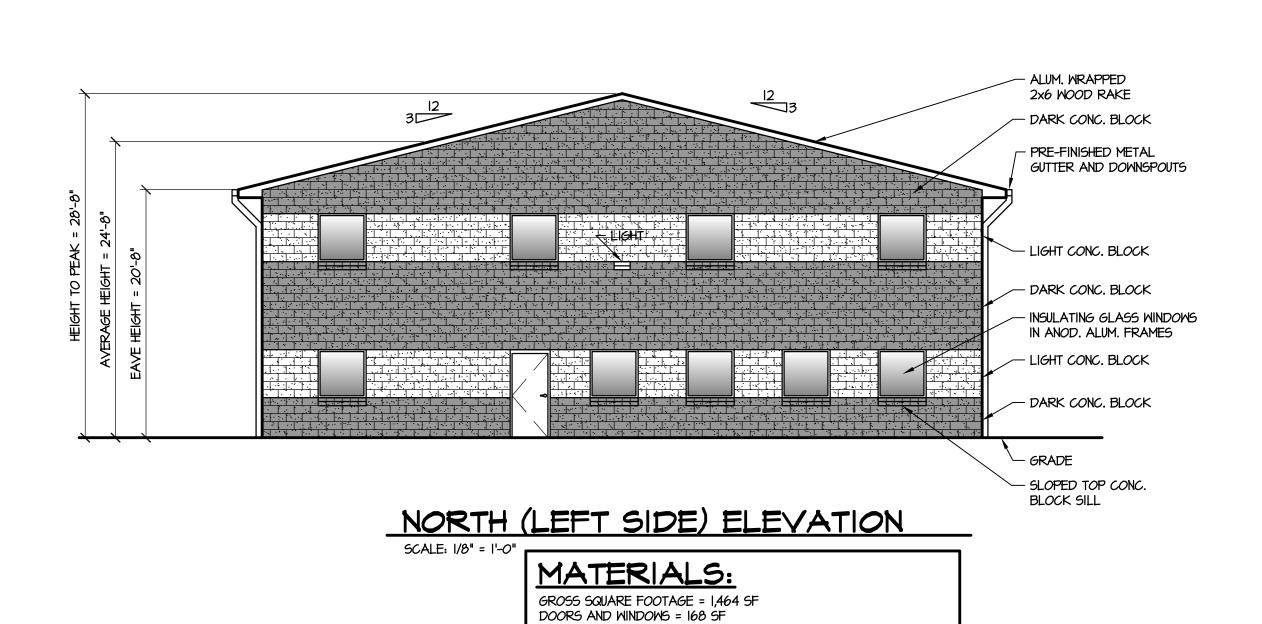


ARCHITECTURE + DESIGN + PLANNING









NET SQUARE FOOTAGE = 1,464 SF - 168 SF = 1,296 SF

SPLIT FACED CONC. BLOCK = 1,287 SF / 1,296 = 99% (COMPLIES)

## MATERIALS:

- DARK CONCRETE BLOCK = GRAND BLANC CEMENT PRODUCTS SPLIT-FACED CONCRETE BLOCK INTEGRAL COLOR = CHARCOAL (WITH SEALANT)

- LIGHT CONCRETE BLOCK = GRAND BLANC CEMENT PRODUCTS SPLIT-FACED AND SMOOTH-FACED CONCRETE BLOCK (SEE ELEVATIONS) INTEGRAL COLOR = LIGHT GREY (WITH SEALANT)

- SLOPED TOP CONCRETE BLOCK SILL = GRAND BLANC CEMENT PRODUCTS SPLIT-FACED CONCRETE BLOCK FACE WITH SMOOTH SLOPED TOP INTEGRAL COLOR TO MATCH SURROUNDING BLOCK (WITH SEALANT)

- WINDOWS = I" LOW-E INSULATING GLASS W/ GREY TINT IN CLEAR ANODIZED ALUMINUM FRAMES

- PRE-FINISHED METAL ROOFING, GUTTERS, FASCIAS, AND RAKES = "ATAS"; COLOR = DOVE GREY

- PRE-FINISHED METAL DOWNSPOUTS = COLOR TO MATCH DARK BLOCK

- HOLLOW METAL DOORS = PAINTED TO MATCH LIGHT BLOCK

- PRE-FINISHED INSULATED METAL OVERHEAD DOORS = COLOR TO MATCH LIGHT BLOCK

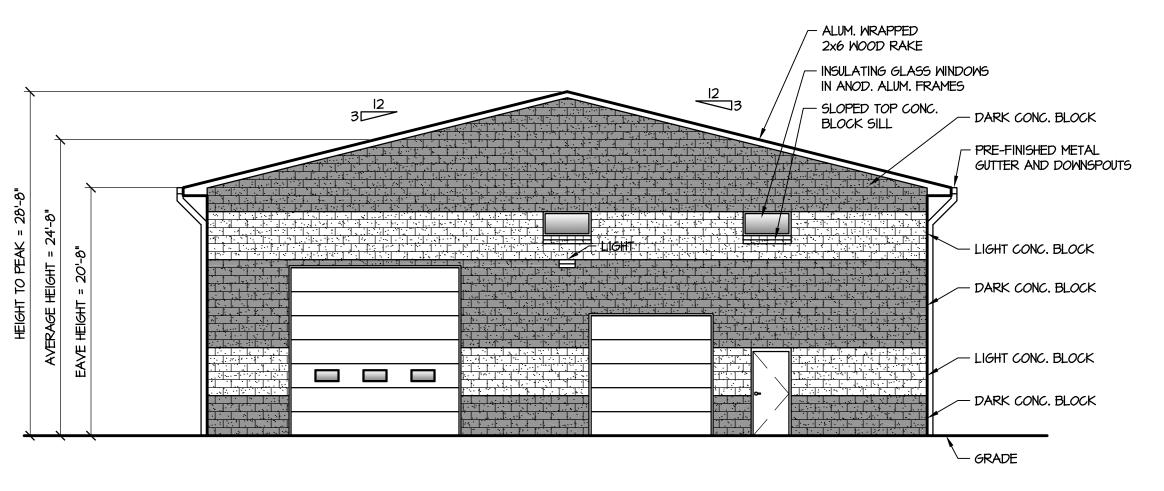
## TOWNSHIP REGULATIONS:

HEIGHT: 30 FT. / 2 STORIES MAX.

WALL SIGNS: AREA = 10% OF BUILDING FACADE OR 100 S.F. (WHICHEVER IS LESS) WEST FACADE = 3,067 S.F. x 0.10 = <del>306 S.F.</del> = 100 S.F. MAX. WALL SIGNS SHALL NOT PROJECT MORE THAN 12" FROM THE WALL

NOTE: A MONUMENT SIGN IS <u>NOT</u> PROPOSED.

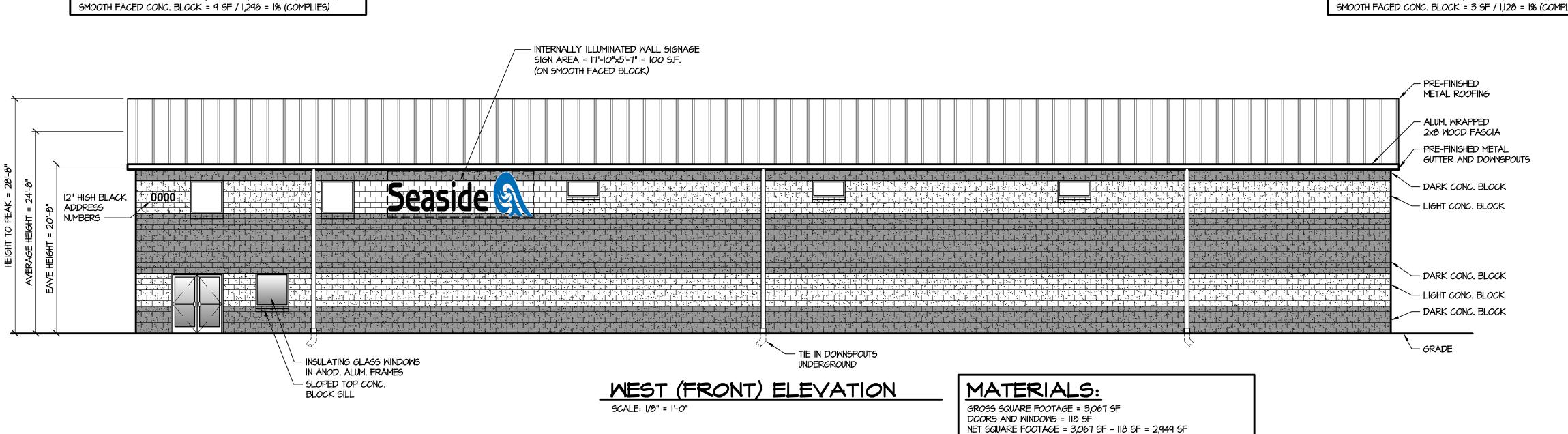
MATERIALS: SPLIT FACED CONCRETE BLOCK = 100% ALLOWABLE (ZONED: IND)

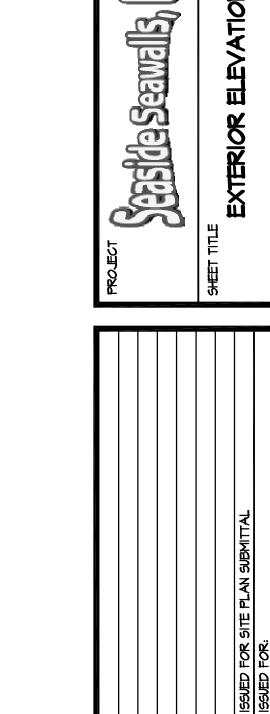


## SOUTH (RIGHT SIDE) ELEVATION

SPLIT FACED CONC. BLOCK = 2,837 SF / 2,949 = 96% (COMPLIES) SMOOTH FACED CONC. BLOCK = II2 SF / 2,949 = 4% (COMPLIES)

MATERIALS: GROSS SQUARE FOOTAGE = 1,464 SF DOORS AND WINDOWS = 336 SF NET SQUARE FOOTAGE = 1,464 SF - 336 SF = 1,128 SF SPLIT FACED CONC. BLOCK = 1,125 SF / 1,128 = 99% (COMPLIES) SMOOTH FACED CONC. BLOCK = 3 SF / 1,128 = 1% (COMPLIES)





DO NOT SCALE THIS PRINT, USE DIMENSIONS SHOWN ONLY DRAWN BY: APPROVED BY: KY PROJECT:



# **GENOA CHARTER TOWNSHIP Application for Site Plan Review**

TO THE GENOA TOWNSHIP PLANNING COMMISSION AND TOWNSHIP BOARD:
Asselin, McLane Architectural Group, LLC
ARRIVGANT NAME & ADDRESS, 4488 W. Bristol Rd. Flint MI 48507

APPLICANT NAME & ADDRESS: 4488 VV. Bristol Rd., Filmt, Wil 48907  If applicant is not the owner, a letter of Authorization from Property Owner is needed.  Michigan Rod Products, Inc
DWNER'S NAME & ADDRESS: 1326 Grand Oaks Dr., Howell, MI 48843
SITE ADDRESS: 1326 Grand Oaks Dr., Howell, MI 48843 PARCEL #(s): 4711-08-100-011
APPLICANT PHONE: (810 )230-9311 OWNER PHONE: (517 )552-9812
OWNER EMAIL:
LOCATION AND BRIEF DESCRIPTION OF SITE:
West side of Grand Oaks Drive wooded 20 acre parcel with existing building, between Grand River Avenue
and I-96.
BRIEF STATEMENT OF PROPOSED USE:
Fabrication of steel components for automotive industry (manufacturing)
THE FOLLOWING BUILDINGS ARE PROPOSED:
16,053 sq ft addition
HEREBY CERTIFY THAT ALL INFORMATION AND DATA ATTACHED TO AND MADE PART OF THIS APPLICATION IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF.
BY:
ADDRESS: 4488 W. Bristol Rd., Flint, MI 48507

Contact Information - Revi	ew Letters and Correspondence shall be fo Of Asselin, McLane Arcitectural Gr Business Affiliation	orwarded to the following:  oup, LLC at jasselin@amarchitecturalgroup.con  E-mail Address
one (1) Planning Commissio will be required to pay the ac fee payment will be required	FEE EXCEEDANCE AGREEM riew fee schedule, all site plans are allocate n meeting. If additional reviews or meeting tual incurred costs for the additional revie concurrent with submittal to the Township at and full understanding of this policy.	ed two (2) consultant reviews and gs are necessary, the applicant ws. If applicable, additional review
SIGNATURE: Land	DATE:	5-2-16

Raymond Embach IV

ADDRESS: 4488 W. Bristol Road, Flint, MI 48507

PRINT NAME:

PHONE:\_

810.230.9311



Planning Commission Genoa Township 2911 Dorr Road Brighton, Michigan 48116

Attention:	Kelly Van Marter, AICP
	Planning Director and Assistant Township Manager
Subject:	Michigan Rod Products – Site Plan Review #2
<b>Location:</b>	1326 Grand Oaks Drive – west side of Grand Oaks Drive, south of Cleary Drive
<b>Zoning:</b>	IND Industrial District

#### Dear Commissioners:

At the Township's request, we have reviewed the revised site plan (dated 5/25/16) proposing expansion of the existing industrial building at 1326 Grand Oaks Drive. We have reviewed the proposal in accordance with the applicable provisions of the Genoa Township Zoning Ordinance.

#### A. Summary

- 1. The proposed elevations, including colors and materials, are subject to review and approval by the Planning Commission. We request the applicant present a material and color sample board at the upcoming meeting.
- 2. The applicant proposes to land-bank 143 parking spaces based on the fact that they have only 75 employees across 3 shifts.
- 3. The Township may wish to require a written agreement to land-bank parking. Alternatively, they may attach a condition to site plan approval (if granted).
- 4. If there are deficiencies in existing landscaping, the Commission may wish to require additional plantings.

#### B. Proposal

The applicant requests site plan review and approval for a 16,053 square foot addition to an existing industrial building. The application indicates that the business manufactures steel components for the automotive industry. General manufacturing uses are permitted by right in the IND; therefore, the applicant only needs site plan review/approval.

Procedurally, the Planning Commission has approval authority over the site plan; however, the Township Board has approval authority over the Impact Assessment (with a recommendation provided by the Planning Commission).



*Aerial view of site and surroundings (looking north)* 

#### C. Site Plan Review

**1. Dimensional Requirements.** As described in the table below, the project complies with the dimensional standards of the IND District:

	Lot Size			Minimum Setba	Max.				
District	Lot Area	Width	Front	Side	Rear	Parking	Height	Lot Coverage	
	(acres)	(feet)	Yard	Yard	Yard	rarking	neight		
IND	1	150	85	25	40	20 front	30' / 2	40% building	
IND			65			10 side/rear	stories	85% impervious	
Duomosal	20	650	195	320 (N)(existing)	90	105 front	22' / 1	19% building	
Proposal			(existing)	50 (S)	90	45 side/rear	story	31% impervious	

**2. Building Materials and Design.** The proposed elevations, including colors and materials, are subject to review and approval by the Planning Commission.

The proposed addition will match the existing building in terms of materials and design. We request the applicant present the Commission with material and color samples at the upcoming meeting.

**3. Parking.** In accordance with Section 14.04, the proposed site plan results in the need for 265 parking spaces. The applicant proposes to utilize the 131 existing parking spaces and to land-bank an additional 143 spaces.

Section 14.02.05 allows the Planning Commission to grant banked parking where an applicant demonstrates that the minimum requirement is excessive. In this instance, the applicant has indicated they have a total of 75 employees across 3 shifts.

Genoa Township Planning Commission **Michigan Rod Products** Site Plan Review #2 Page 3

> The plan includes a layout for the banked parking as an extension west of the existing parking lot. The applicant should be aware that the Township may require the construction of additional parking based on observed usage. The Township may wish to require an agreement documenting such, or simply attach a condition to site plan approval (should it be granted).

- 4. Pedestrian Circulation. No changes are proposed to existing pedestrian circulation.
- 5. Vehicular Circulation. With the exception of a new fire lane near the proposed building addition, no changes are proposed to existing vehicular circulation.
- **6.** Landscaping. The applicant does not propose any new landscaping as part of this project. If there are deficiencies in existing plantings, the Commission may wish to require improvements.
- 7. Waste Receptacle and Enclosure. There are existing waste receptacles east and west of the office building and no changes are proposed as part of this project.
- **8.** Exterior Lighting. The submittal includes a lighting plan showing existing site lighting and 3 new wall mounted fixtures for the proposed addition. The light intensities noted comply with Ordinance limitations and the proposed fixtures are downward directed, as required.
- 9. Signs. The submittal indicates that no new signage is proposed as part of this project.
- 10. Impact Assessment. The submittal includes an Impact Assessment (March 29, 2016). In summary, the Assessment notes that the proposed building addition is not anticipated to adversely impact natural features, public services/utilities, surrounding land uses or traffic.

Should you have any questions concerning this matter, please do not hesitate to contact our office. We can be reached by phone at (248) 586-0505, or via e-mail at borden@lslplanning.com and penn@lslplanning.com.

Respectfully,

LSL PLANNING, A SAFEBUILT LLC COMPANY

Brian V. Borden, AICP

Planning Manager



June 8, 2016

Ms. Kelly Van Marter Genoa Township 2911 Dorr Road Brighton, MI 48116

Re: Michigan Rod Addition Site Plan Review #2

Dear Ms. Van Marter:

We have reviewed the resubmitted impact assessment and site plan documents prepared by Asselin, McLane Architectural Group LLC. for an approximate 16,053 square-foot addition to an existing manufacturing building located on west side of Grand Oaks Drive, south of Grand River Avenue. Tetra Tech has reviewed the updated documents and site plan and found that the petitioner has satisfied all of the previous comments and recommend approval.

Additionally, in their response letter the petitioner has indicated they will pay any updated tap fee as necessary due to the expansion of their facility, which was estimated to be approximately 2 REUs.

Please call if you have any questions.

Sincerely,

copy:

Gary J. Markstrom, P.E. Unit Vice President

John Asselin Jr., Asselin, McLane Architectural Group

Joseph C. Siwek, P.E. Project Engineer

# BRIGHTON DE P

# BRIGHTON AREA FIRE AUTHORITY

615 W. Grand River Ave. Brighton, MI 48116 o: 810-229-6640 f: 810-229-1619

June 3, 2016

Kelly VanMarter Genoa Township 2911 Dorr Road Brighton, MI 48116

RE: Michigan Rod Products Addition

1326 Grand Oaks Drive

Genoa Twp., MI

Dear Kelly:

The Brighton Area Fire Department has reviewed the above mentioned site plan. The plans were received for review on May 26, 2016 and the drawings are dated May 25, 2016. The project is for a 16,053 square foot addition to an existing 128,000 square foot manufacturing/storage facility. The plan review is based on the requirements of the International Fire Code (IFC) 2015 edition.

1. The existing building is provided with and automatic fire suppression system. The system shall be evaluated by a fire suppression designer for compliance with NFPA 13 as it relates to square footage and design density. (Noted to be evaluated prior to construction)

IFC 903

- 2. The 20' secondary access road to West end of the building shall be constructed of a maintainable surface and be installed prior to construction. Access roads shall be capable of supporting the imposed load of fire apparatus weighing at least 75,000 pounds. (Noted to be compliant when constructed)
- 3. Egress door location and configuration along the exterior walls shall be revised to meet the High Pile Storage requirements of Chapter 32. Three additional doors need to be added and the two existing proposed doors relocated to meet the spacing requirement of 100 lineal feet between. Door locations shall be measured from the nearest existing doors. (Locations revised and additional doors added on floor plan drawings)
- 4. Provide names, addresses, phone numbers, emails of owner or owner's agent, contractor, architect, on-site project supervisor. (Provided on response sheet)

Additional comments will be given during the building plan review process (specific to the building plans and occupancy). The applicant is reminded that the fire authority must review the fire protection systems submittals (sprinkler & alarm) prior to permit issuance by the Building Department and that the authority will also review the building plans for life safety requirements in conjunction with the Building Department.

If you have any questions about the comments on this plan review please contact me at 810-229-6640.

Cordially,

Capt. Rick Boisvert, CFPS Fire Inspector

## IMPACT ASSESSMENT MICHGAN ROD PRODUCTS MARCH 29, 2016

#### INTRODUCTION

The proposed development is a 16,053 sq. ft. addition to the West side of the existing manufacturing facility of Michigan Rod Products at 1326 Grand Oaks Drive. Potential areas of concern are noted along with the proposed methods of addressing each tem. The format conforms to the impact assessment requirements as outlined in Section 18.07 of the published Zoning Ordinance for Genoa Township.

A. Name(s) and address(es) of person(s) responsible for preparation of the impact assessment and a brief statement of their qualifications.

Prepared by:
Asselin, McLane Architectural Group, LLC
Commercial/Industrial Architecture
4488 West Bristol Road
Flint, Michigan 48507
(810) 230-9311
(810) 230-2831 Fax

Prepared for: Michigan Rod Products 1326 Grand Oaks Drive Howell, Michigan 48843

B. Map(s) and written description/analysis of the project site including all existing structures, manmade facilities, and natural features. The analysis shall also included information for areas within 10 feet of the property. An aerial photograph or drawing may be used to delineate these areas.

The site is located on the west side of Grand Oaks Drive (2100 feet R.O.W.) approximately 2,000 feet south of Grand River Avenue, in the Southwest ¼ of Section 5, T2N-R5E, Genoa Township, Livingston County, Michigan. The approximate gross area of the parcel is 20 acres. The site slopes generally from the Southeast toward the Northwest. The site ultimately drains toward the Northwest and thence West into an unnamed drain that flows to the West for approximately 1.5 miles into the Marion and Genoa drain. An existing detention basin was designed in a previous project in the northwest corner of the site. A site plan has been prepared which provides a more detailed description of the site. There is significant existing vegetation on the site and is shown on the Site Plan. All significant vegetation lies outside the construction boundary. It is

intended to have little grading done on the site except in the building footprint and a fire land extension to serve the addition. All of the surrounding property is part of the Grand Oaks Industrial Park and is zoned Industrial (IND).

C. Impact on natural features: A written description of the environmental characteristics of the site prior to development and following development, i.e., topography, soils, wildlife, woodlands, mature trees (eight-inch caliper or greater), wetlands, drainage, lakes, streams, creeks or ponds. Documentation by a qualified wetland specialist shall be required wherever the Township determines that there is a potential regulated wetland. Reduced copies of the Existing Conditions Map(s) or aerial photographs may accompany written material.

As shown on the Site Plan, there will be little or no impact on the vegetation. The topography will be raised at the footprint of the building. After a short, smooth transition from the building, the existing topography will remain as presently exiting.

D. Impact on stormwater management: Description of measures to control soil erosion and sedimentation during grading and construction operations and until a permanent ground cover is established. Recommendations for such measures may be obtained from the Livingston County Drain Commission at (517) 546-0040.

There will be a minimal increase of impervious surface of 16,053 square feet for this addition which will result in a increase of the weighted runoff coefficient (Cw) from 0.39 to 0.42. The existing detention basin enlarged during the last construction project (2013/2015) to accommodate the site.

Surface runoff during periods of construction will be controlled by proper methods set by the Livingston County Soil Erosion Control and Drain Commissioner, including silt fence, pea stone filters, seed, and mulch.

E. Impact on surrounding land used: Description of the types of proposed uses and other man-made facilities, including any project phasing, and an indication of how the proposed use conforms or conflicts with existing and potential development patterns. A description shall be provided of any increases of light, noise or air pollution which could negatively impact adjacent properties.

The applicant is proposing to construct a 16,053 square foot building addition. The site is located in the Industrial District (IND). The purposed use is compatible with surrounding zonings, as the site is located in an industrial part and is surrounded by Industrial zoning and uses. The expected impact due to construction of the building will be minimized because of the following:

- There are no woodlands or other significant features on the site to be disturbed to facilitate construction of the site improvements. The existing detention basin was enlarged during the last construction project and approved by the Livingston County Drain Commission.
- 2. The site plan was prepared taking into account existing topography to minimize the amount of earthwork required for the building and parking areas. Current, well-developed landscaping to remain and is in accordance with Genoa Township standards.
- 3. Soil erosion control measures such as silt fence, straw bale filters, and pea stone filters at catch basins will be utilized during construction to control siltation and sedimentation from entering the detention areas.
- 4. An existing dumpster is on the site that is screened using an eight (8) foot masonry enclosure.
- 5. Existing Outdoor storage of steel coils screened by existing, well-developed vegetation.

There is no significant noise or air pollutant increases anticipated for the proposed use on this site. The only pollution and noise will come from car and truck traffic into and out of the site, which will be minimal for an industrial storage use such as this. No additional site lighting is proposed.

F. Impact on public facilities and services: Describe the number of expected residents, employees, visitors, or patrons, and the anticipated impact on public schools, police protection and fire protection. Letters from the appropriate agencies may be provided, as appropriate.

The facility is anticipated to employ the same number of people as existing.

G. Impact on public utilities: Describe the method to be used to service the development with water and sanitary sewer facilities, the method to be used to control drainage on the site and from the site, including runoff control during periods of construction. For sites serviced with sanitary sewer, calculations for pre- and post development flows shall be provided in comparison with sewer line capacity. Expected sewage rates shall be provided in equivalents to a single family home. Where septic systems are proposed, documentation or permits from the Livingston County Health Department shall be provided.

No additional service requirements are proposed for this parcel. Water service is provided via connection to as 12" DI extension of the water main currently within the Grand Oaks Drive right-of-way. Sanitary sewer will not be used in the proposed addition. Storm water runoff from the proposed onsite detention basin will be restricted to an agricultural runoff rate from all developed areas. Underground gas, electric, and telephone are also available.

H. Storage and handling of any hazardous materials: A description of any hazardous substances expected to be used, stored or disposed of on the site. The information shall describe the type of materials, location within the site and method of containment. Documentation of compliance with federal and state requirements, and a Pollution Incident Prevention Plan (PIPP) shall be submitted, as appropriate.

No hazardous materials will be used, stored, or disposed of on-site.

I. Impact on Traffic and Pedestrians: A description of the traffic volumes to be generated based on national reference documents, such as the most recent edition of the Institute of Transportation Engineers Trip Generation Manual, other published studies or actual counts of similar uses in Michigan. A detailed traffic impact study shall be submitted for any site over ten (10) acres in size which would be expected to generate 100 directional vehicle trips (i.e. 100 inbound or 100 outbound trips) during the peak hour of traffic of the generator or on the adjacent streets. The contents of the detailed study shall include:

The impact on traffic and pedestrians from this use will be minimal due to the location and nature of the use. The site is located within an industrial park, which will not be a primary location for pedestrian traffic. The use of automobile storage will constitute a minimal amount of additional vehicular traffic for the area on a daily basis.

No new access to Grand Oaks Drive is needed.

J. Special Provisions: General description of any deed restrictions, protective covenants, master deed or association bylaws.

None. Current easements for a gas well on the Northwest side of the property will remain.

K. A list of all sources shall be provided.

A list of all sources will be provided.

Proposed Addition for:

# Michigan Rod Products

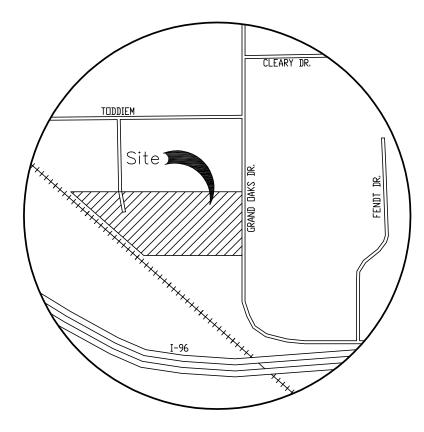
1326 Grand Oaks Drive, Genoa Township, Livingston Co. MI



# ASSELIN MCLANE ARCHITECTURAL GROUP

4488 WEST BRISTOL ROAD | FLINT | MI | 48507 | PHONE: [810] 230-9311 FAX: [230]-2831 WWW.AMARCHITECTURALGROUP.COM







# LEGAL DESCRIPTION

967.88 FT, TH N 89\*08'E 1702.61 FT TO POB 20 AC M/L 1984 SPLIT FR 001

Issued For Revised Site Plan Approval 05-25-16

	Schedule of Drawings	S
	Sheet Name	Revision Date
	COVER SHEET	05-25-16
	OOVER SHEET	00 20 10
C1.1	OVERALL & ENLARGED SITE PLAN	05-25-16
C1.2	ENLARGED GRADING PLAN	05-25-16
C1.3	FIRE SAFETY SITE PLAN	05-25-16
C1.4	SOIL EROSION PLAN	05-25-16
CE1.1	PHOTOMETRIC LAYOUT	05-25-16
A1.1	FLOOR PLAN & ELEVATIONS	05-25-16



Rhoads & & W w . r h o a d s j o h n s o n . c o m

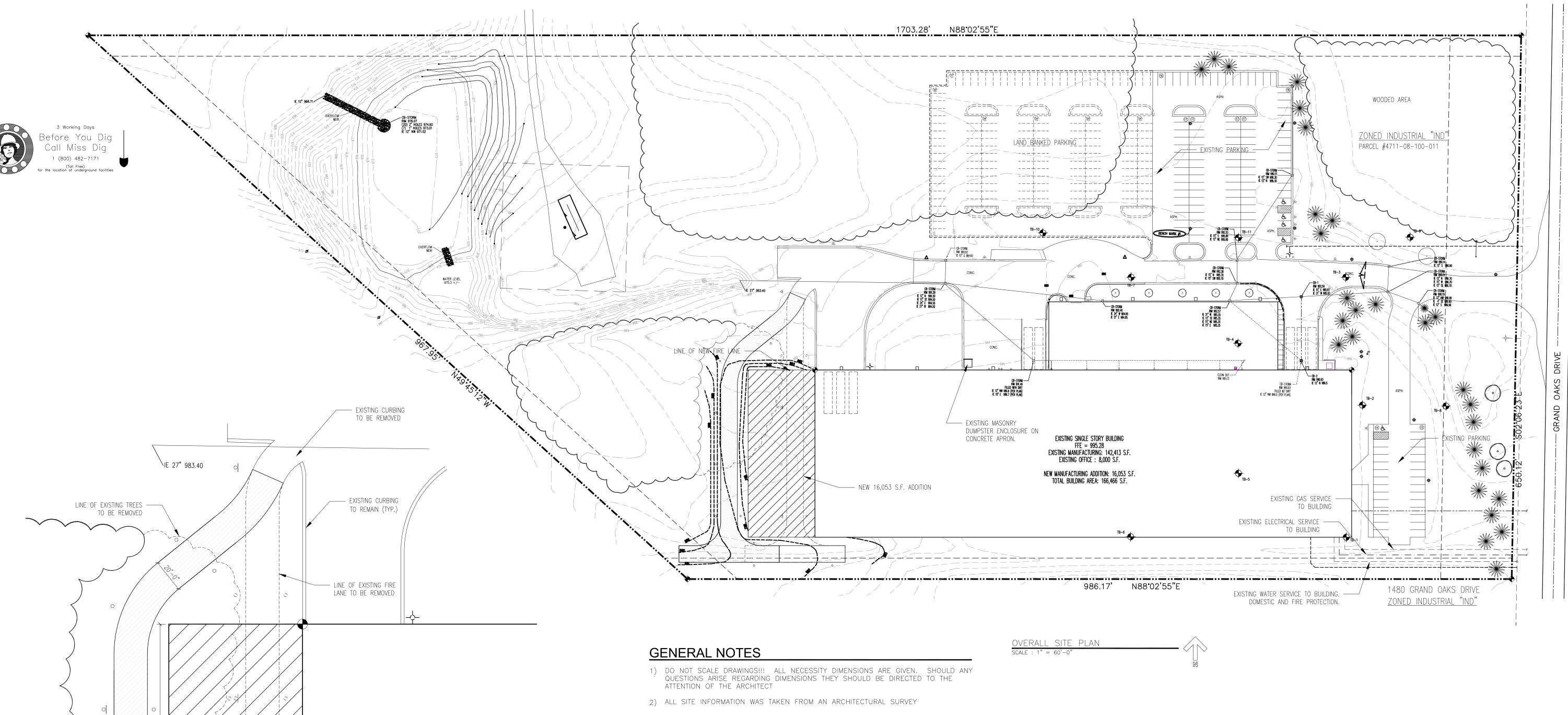
Michigan Rod Products
1326 Grand Oaks drive, Genoa Township,

DescriptionDateREVISED FOR PRICING04-18-16SITE PLAN REVIEW05-02-16REV. FOR SITE PLAN REVIEW05-25-16

SITE PLAN

Project number 16031

C1.1
Scale 1" = 60'



- 3) ALL WORK TO BE DONE ACCORDING TO ALL APPLICABLE CODES AND ORDINANCES AS WELL AS THE BEST PRACTICE AND STANDARDS OF THE TRADE. ALL SUBCONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING PROPER PERMITS AND PAYING ALL APPLICABLE FEES.
- 4) WATER SERVICE IS EXISTING TO REMAIN
- 5) SANITARY SERVICE IS EXITING TO REMAIN
- 6) AREA OF PARCEL: 20.06 ACRES
- 7) BUILDING AREA:
  - EXISTING OFFICE = 8,000 S.F.
    EXISTING MANUFACTURING = 142,413 S.F.
    PROPOSED MANUFACTURING = 16,053 S.F.
    TOTAL BUILDING AREA = 166,466 S.F.
- 8) EXISTING LAND USE: <u>LIGHT MANUFACTURING</u>
  PROPOSED LAND USE: <u>LIGHT MANUFACTURING</u>

# 9) PARKING:

- 1.5 SPACE PER 1000 G.S.F. (IND)(238) + 1/300 OFFICE (27)
  PARKING REQUIRED = 265 SPACES (PER ORDINANCE)
  EXISTING PARKING PROVIDED = 131 SPACES
- TOTAL EMPLOYEE COUNT = 75 ((46) 1ST SHFT, (27) 2ND SHFT AND (2) 3RD SHFT).

  TO MINIMIZE WATER RUNOFF LAND BANKING OF UNNECESSARY PAVING IS PROPOSED.

  LAND BANKED SPACES PROVIDED = 143

  TOTAL PARKING SPACES SHOWN = 274

# 10) LOT COVERAGE

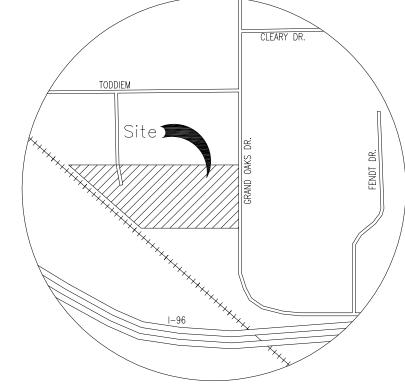
BUILDING COVERAGE ALLOWED = 40% BUILDING COVERAGE PROVIDED = 19% (NEW & EXISTING)

TOTAL IMPERVIOUS COVERAGE ALLOWED = 85%

- TOTAL IMPERVIOUS COVERAGE PROVIDED = 31% (NEW & EXISTING)
- 11) BUILIDNG HEIGHT
  - HEIGHT ALLOWED = 30' HEIGHT PROVIDED = 22'
- 12) ADDITIONAL PAVEMENT/IMPERVIOUS = 16,053± S.F. (6.3% INCREASE)
- 13) SITE IS ZONED: INDUSTIRAL "IND"
- 14) ALL LANDSCAPE AND GREEN BELTS ARE EXISTING TO REMAIN
- 15) NO NEW SIGNAGE OTHER THAN THE REQUIRED BUILDING ADDRESS
  AND FIRE LANE SIGNS ARE PROPOSED AS PART OF THIS PROJECT

# **DEMOLITION NOTES**

- \*\* NOTE: THIS IS SELECTIVE DEMOLITION!
- 1. ALL DEMOLITION WORK SHALL CONFORM TO ALL LOCAL CODES AND ORDINANCES
- 2. THE GENERAL CONTRACTOR SHALL DISCUSS WITH THE OWNER PRIOR TO CONSTRUCTION, THE USAGE OF ALL UTILITIES TO COMMENCE WORK. THE CONTRACTOR SHALL PROVIDE A SAFE AREA WITH UTILITIES. ALL TURNOFF OF UTILITIES SHALL BE NOTIFIED TO THE OWNER, PRIOR TO NEW CONSTRUCTION.
- 3. ALL DEMOLITION MATERIAL SHALL BE PROPERLY REMOVED FROM THE SITE AND DISPOSED OF IN A LEGALLY DESIGNATED DISPOSAL AREA. NO ON—SITE BURRING WILL BE PERMITTED. PERMITS AND FEES FOR DISPOSAL OF DEMOTION MATERIAL SHALL BE OBTAINED AND PAID FOR BY THE GENERAL CONTRACTOR.
- 4. THE GENERAL CONTRACTOR IS RESPONSIBLE IN NOTIFYING ALL PROPER DEPARTMENTS PRIOR TO COMMENCEMENT OF ALL WORK, AND OBTAIN ALL NECESSARY PERMITS FOR ALL WORK.
- 5. AT THE CONCLUSION OF THE DEMOLITION OPERATIONS, THE ENTIRE WORK AREA SHALL BE LEFT IN A CLEAN CONDITION WITH PROTECTIVE DEVICES AND BARRIERS REMOVED.



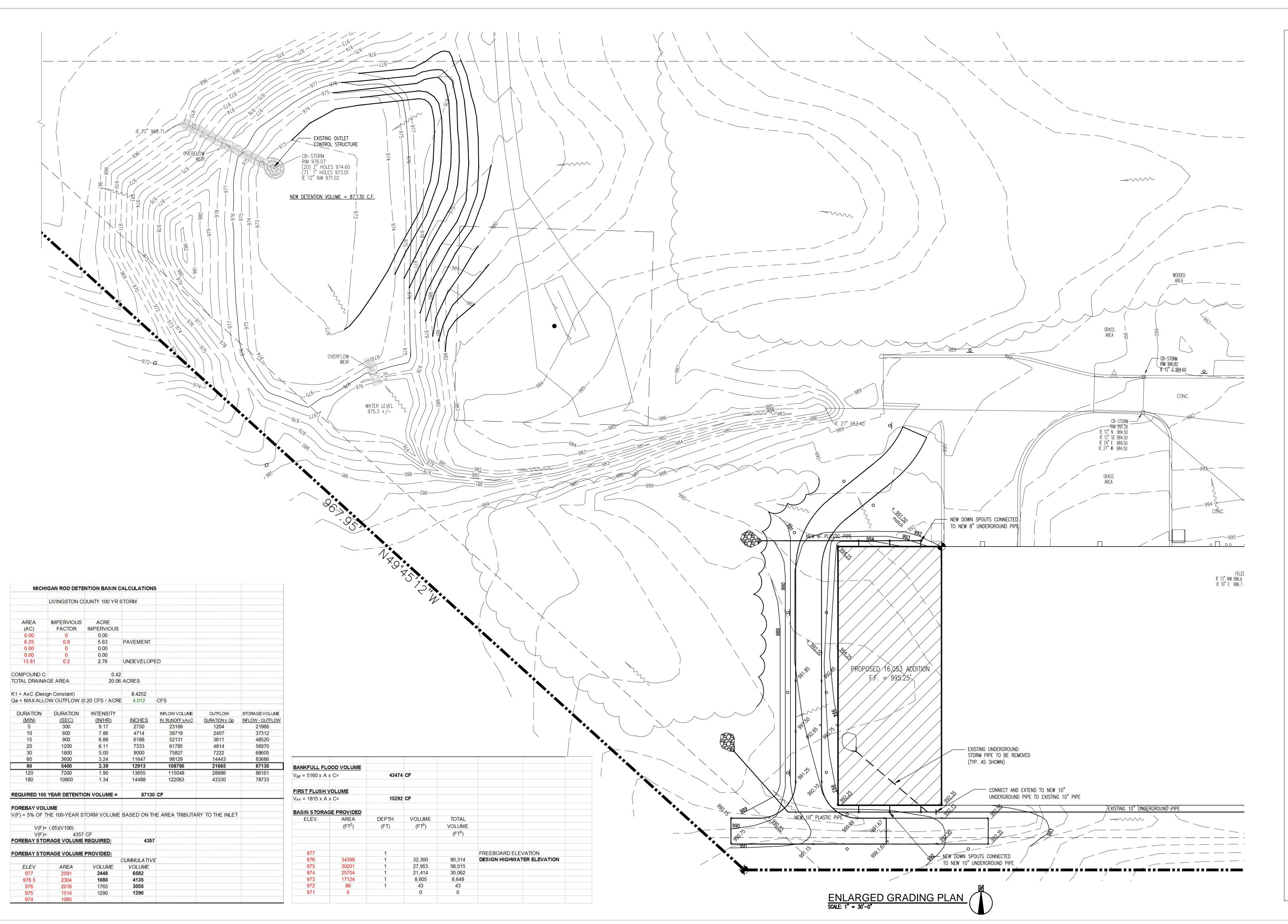


# LEGAL DESCRIPTION

SEC 8 T2N R5E, COMM N 1/4 COR, TH S 87\*12'58"W 496.99 FT, TH S 02\* 06'23"E 739.81 FT TO POB, TH S 02\*06'23"E 650.12 FT, TH S 88\*02' 55"W 989 FT, TH N 49\*45'12"W 967.88 FT, TH N 89\*08'E 1702.61 FT TO POB 20 AC M/L 1984 SPLIT FR 001

ENLARGED SITE PLAN

SCALE: 1" = 30'-0"



ELIN MCLANE

HITECTURAL GROUP

OL ROAD | ELINT | MI 48507 | PHONE: [810] 230-9311 FAX: [230]-2831

Rhoads & www.rhoads johnson.com

Michigan Rod Products
1326 Grand Oaks drive, Genoa Township,
Livingston Co. MI

No.DescriptionDate1REVISED FOR PRICING04-18-162SITE PLAN REVIEW05-02-163REV. FOR SITE PLAN REVIEW05-25-16

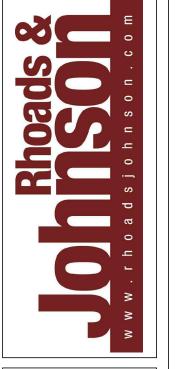
ENLARGED SITE GRADING PLAN

Project number 16031

C1.2

Scale 1" = 30'





**Products** po Michigan Ro

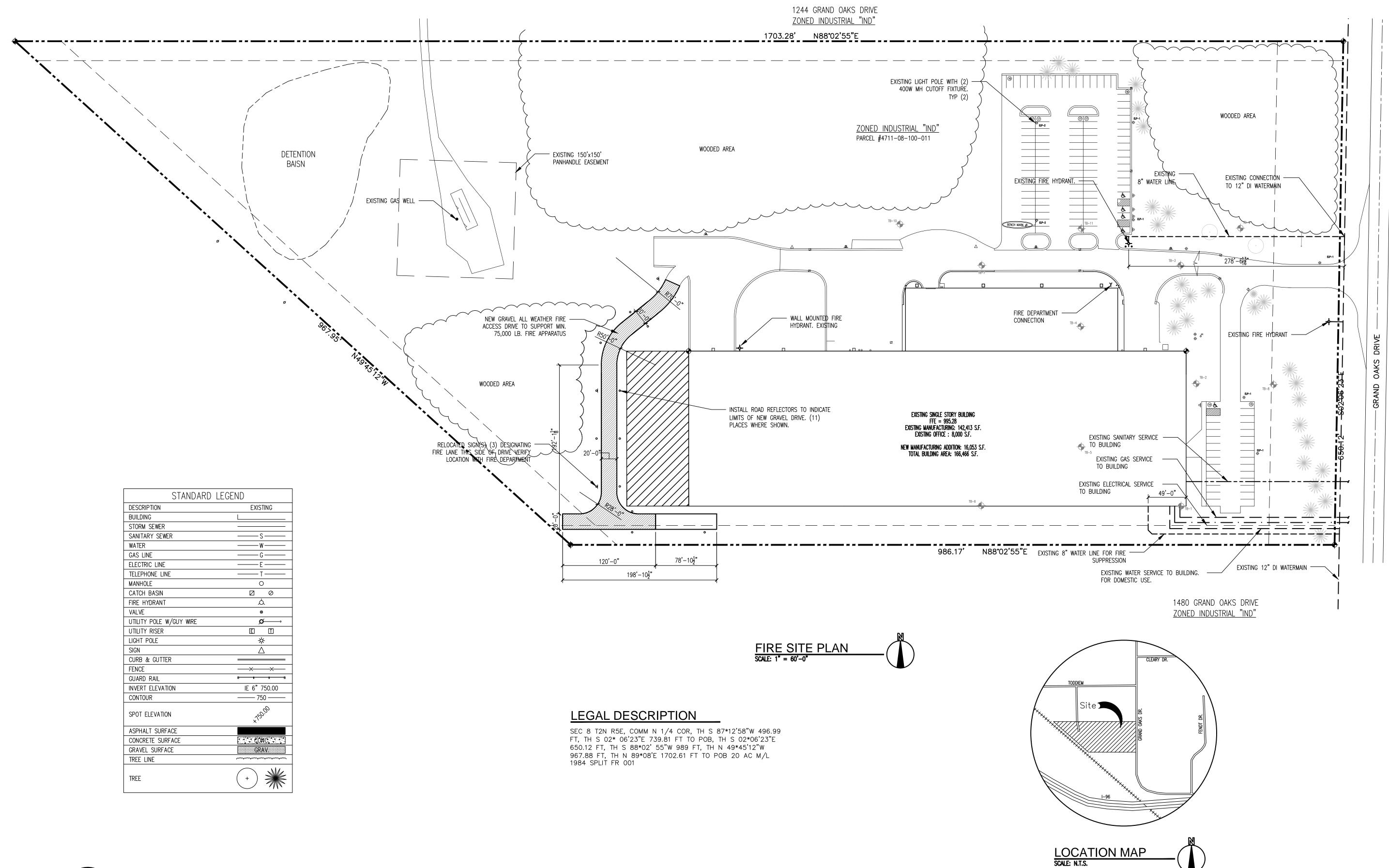
Date 04-18-16 05-02-16 05-25-16

0 L U W SITE

Project number 16031

1" = 60'

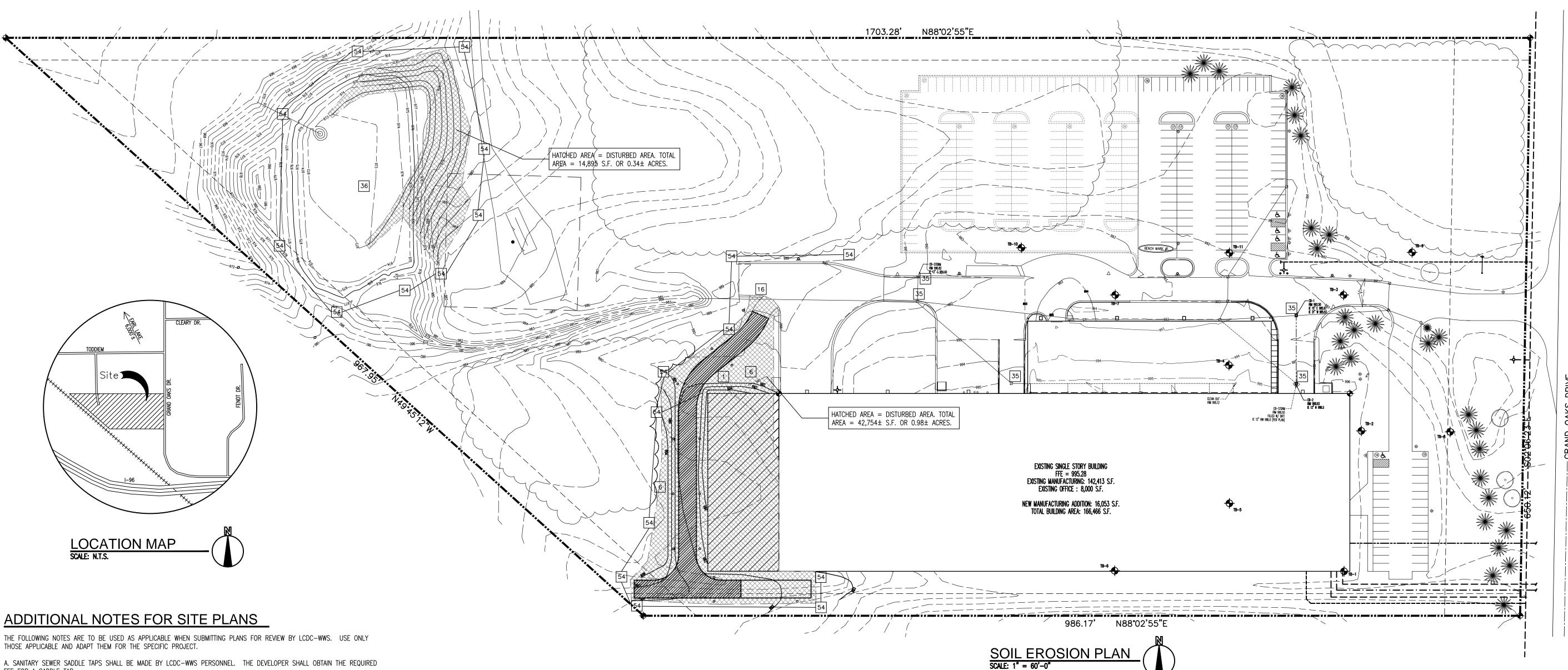
Scale



Before You Dig Call Miss Dig 1 (800) 482-7171

Project number 1603

1" = 60'



THOSE APPLICABLE AND ADAPT THEM FOR THE SPECIFIC PROJECT.

FEE FOR A SADDLE TAP.

B. THE CONTRACTOR SHALL VERIFY THE SANITARY SWER DEPTH AND BE RESPONSIBLE FOR PROVIDING ADEQUATE SLOPE OF SEWER TOWARD THE MAINLINE SEWER IN STRICT ACCORDANCE WITH LCDC-WWS STANDARD DETAILS AND SPECIFICATIONS. C. SANITARY SERVICE LEADS SHALL BE ENCASED IN 6AA CRUSHED LIMESTONE (A1) IN ACCORDANCE WITH LCDC-WWS STANDARD DETAILS AND SPECIFICATIONS.

D. WATER SERVICE CONNECTION AND CURB BOX SHALL BE INSTALLED IN ACCORDANCE WITH LCDC-WWS STANDARD DETAILS AND SPECIFICATIONS.

E. ALL WATER SERVICE LEADS SHALL BE "K"COPPER. THE MINIMUM SIZE SHALL BE 3/4".

F. ALL WATERMAIN PRESSURE TAPS AND CUT IN VALVES 4" AND LARGER SHALL BE CONSTRUCTED WITH A CAST IRON OR STAINLESS STEEL TAPPING SLEEVES AND WITHIN A MANHOLE PER LCDC-WWS STANDARD DETAILS AND SPECIFICATIONS.

THE SAND SHALL BE COMPACTED 95% OF MATERIAL THE UNIT WEIGHT BY MODIFIED PROCTOR.

G. SAND FILL UNDER ANY FLOOR SLAB, WALKS, PAVED AREAS, ETC. SHALL BE A MINIMUM MDOT CLASS II SAND BACKFILL (A5).

H. ALL EXISTING UTLITIES SERVING THE PROPERTY SHALL BE PROPERLY TERMINATED IN COMPLIANCE WITH LOCAL AND/OR COUNTY REGULATIONS. REMOVE ALL TREES, INCUDING ROOT STRUCTURES, EXCEPT THOSE SPECIFICALLY NOTED TO REMAIN AND THOSE ON PROPERTY LINES. DO NOT CLEAR SITE PRIOR TO COORDINATING WITH THE OWNER AND THE LANDSCAPING PLAN TO DETERMINE WHICH TREES ARE TO REMAIN.

I. FOR ANY DEMOLITION WORK. PLEASE SEE DEMOLITION NOTES ATTACHED HEREWITH. J. VERIFY EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION.

K. CONTRACTOR IS TO ADJUST ANY UTILITY ELEMENT MEANS TO FLUSH WITH GRADE (CLEAN OUT, VALVE BOXES, MANHOLES, CATCH BASINS, INLETS, ETC.) THAT IS AFFECTED BY SITE WORK OR GRADE CHANGES, WHETHERE SPECIFICALLY NOTED ON PLANS OR NOT. THE CONTRACTOR SHALL OBTAIN ANY NECESSARY PERMITS FOR ADJUSTMENT AT THE CONTRACTOR'S EXPENSE.

L. THE WATER SUPPLY FOR ALL COMMERCIAL AND INDUSTRIAL BUILDINGS SHALL BE EQUIPPED WITH A BACKFLOW PREVENTION DEVICE IN ACCORDANCE WITH BUILDING CODES.

M. ALL ON SITE WATER SERVICE SHALL MEET THE REQUIREMENT OF LCDC-WWS STANDARD DETAILS AND SPECIFICATIONS. N. THE CONTRACTOR SHALL NOTIFY MISS DIG (1-800-482-7171) THREE (3) WORKING DAYS PRIOR TO STARTING ANY

O. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, COUNTY, AND STATE REGULATIONS FOR ALL WORK THAT TAKES PLACE ON THE SITE.

P. THE CONTRACTOR/DEVELOPER SHALL PAY FOR AND OBTAIN ALL PERMITS REQUIRED BY FEDERAL, STATE, LOCAL, OR PRIVATE AGENCIES AND PAY ALL CHARGES FOR INSPECTION AND TESTING.

Q. THE CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION LINES AND GRADE FOR THEIR WORK.

R. THE CONTRACTOR SHALL BE REPSONSIBLE FOR CLEANING UP THE PREMISES, AND UPON COMPLETION OF THE PROJECT, LEAVE THE SITE IN AN ACCEPTABLE CONDITION AS DETERMINED BY LCDC-WWS.

S. COMMERICAL BUILDINGS SHALL USE A 6" SANITARY RISER FROM THE MAIN TO THE STRUCTURE. THE SERVICE RISER SHALL CONNECT TO THE MAINLINE AND NOT AT A MANHOLE. T. FOR COMMERCIAL ESTABLISHMENTS THAT GENERATE GRIT OR GREASE, AN EXTERNAL GREASE/GRIT TRAP SHALL BE PROVIDED.

SHOW THE DETAIL ON THE PLANS WITH APPROPRIATE NOTES. THE DOMESTIC SEWAGE SHALL BE DESIGNED TO BYPASS THE GREASE/GRIT TRAP.

U. THE MINIMUM SLOPE FOR A COMMERICAL LEAD IS 1' OF FALL PER 100 FEET OF PIPE. SHOW THE INVERT AT THE STRUCTURE AND THE SLOPE TO THE PROPERTY LINE.

V. ALL SANITARY SEWER RISERS SHALL BE SDR-26 PVC.

W. EACH PARCEL OF LAND SHALL HAVE AN INDIVIDUAL RISER.

EXCAVATION WITH POWER EQUIPMENT.

LIVINGSTON COUNTY STANDARD NOTES FOR SITE PLAN REVIEW

1. ALL PUBLIC SANITARY SEWER AND/OR WATER MAIN SHALL BE EXTENDED TO THE FURTHEST LIMITS OF THE PROPERTY, INCLUDING CORNER LOTS, WITH THE PIPE SIZE AND MATERIAL APPROVED BY LCDC-WWS. 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 WATER MAIN AND/OR SANITARY SEWER ALONG BOTH PROPERTY LINES WILL BE REVIEWED. FINAL DETERMINATION SHALL BE MADE BY LIVINGSTON COUNTY 2. ALL PUBLIC WATER MAINS SHALL BE LOOPED WHENEVER POSSIBLE. THE PIPE SIZING SHALL BE APPROVED BY LIVINGSTON COUNTY

3. A INDUSTRIAL PRETREATMENT PERMIT 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

4. THE DEVELOPER SHALL SUBMIT A DETAILED SOIL EROSION AND SEDIMENTATION CONTROL PLAN AND OBTAIN AN ACT 451 PART 91, SOIL EROSION AND SEDIMENTATION 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 SHALI 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. THE DEVELOPER SHALL APPLY TO THE STATE OF MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY FOR A PERMIT FOR THE ALTERATION AND/OR OCCUPATION OF A FLOOD PLAIN OR FLOOD WAY, AS REQUIRED UNDER PA 451. EVIDENCE OF THIS PERMIT MAY BE REQUIRED PRIOR TO PLAN APPROVAL BY LIVINGSTON COUNTY

6. 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 LIVINGSTON COUNTY 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 LIVINGSTON COUNTY

7. 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 LIVINGSTON COUNTY APPROVAL, A S-PERMIT ISSUED, AND APPROVAL FROM THE MDEQ PRIOR TO BEGINNING CONSTRUCTION

8. THE DEVELOPER SHALL OBTAIN A PERMIT FROM THE LIVINGSTON COUNTY ROAD COMMISSION TO PERFORM WORK WITHIN THE LIVINGSTON COUNTY READ COMMISSION RIGHT-OF-WAY. ALL FEES FOR THE PERMIT, BINDS AND INSURANCE ARE THE RESPONSIBILITY OF THE DEVELOPER

9. 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 LIVINGSTON COUNTY

10. THE SANITARY SEWER AND WATERMAIN CONSTRUCTION PERMIT APPLICATION FROM THE MICHIGAN DEPARTMENT OF ENVROMETAL QUALITY (MDEQ) SHALL BE SUBMITTED TO THE MDEQ AFTER RECEIVING APPROVAL FROM LIVINGSTON COUNTY. CONSTRUCTION SHALL NOT BEGIN UNTIL THESE STATE PERMITS ARE ISSUED

TOTAL DISTURBED AREA = 57,649 S.F. OR 1.32± ACRES

STONE CONSTRUCTION ACCESS 20'x50' MIN. OVER GEOTEXTILE

35 CATCH BASIN W/ FILTER

36 STORMWATER COLLECTION SYSTEM

CONTRACTOR SHALL CHECK AND MAINTAIN ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES, INCLUDING INSPECTING SILT FENCE DAILY AND REPAIRING AND RIPS AND TEARS, CHECKING STRAW BAIL FILTERS AND REPLACING IF NECESSARY. ALSO AFTER A HARD RAIN ALL CONTROL MEASURES WILL BE CHECKED AND REPAIRED IF NECESSARY INCLUDING ALL SLOPES ON SITE

# MICHIGAN UNIFIED KEYING SYSTEM

1 STRIPPING AND STOCKPILEING TOPSOIL

2 GRADING & SHAPING (TYP. ENTIRE SITE)

6 SEED & MULCH

8 SOD (TYP. ALL EXPOSED AREAS)

13 RIP-RAP

15 HARD SURFACE PAVING

16 CURB & GUTTER

54 SILT FENCE

**FRONT VIEW** GEOTEXTILE FABRIC - COMPACTED EARTH GEOTEXTILE FILTER SECTION B UNDISTURBED VEGETATION FENCE POST --SUPPORT FENCE **PLAN VIEW** 

K) LANDSCAPING

GEOTEXTILE FILTER FABRIC

6" ANCHOR TRENCH

SILT FENCE DETAILS SCALE: 1/2" = 1'-0"

GEOTEXTILE FILTER FABRIC
FASTENED ON UPHILL SIDE,
TOWARDS EARTH DISRUPTION

RIDGE OF COMPACTED EARTH

-ON UPHILL SIDE OF FILTER

- 6"x6" ANCHOR TRENCH

SILT FENCE A

FABRIC TO BE

-WRAPPED AROUND

**SECTION "A"** 

**SECTION "B"** 

SILT FENCE B

..09-1 THRU 09-15

UNDISTURBED VEGETATION

# SOIL EROSION IMPLEMENTATION SCHEDULE

FENCE POSTS DRIVEN INTO GROUND 1'-0" MIN.

SOIL EROSION AND SEDIMENTATION CONTROL MEASURES ARE TO TAKE PLACE IN THE FOLLOWING ORDER
A) INSTALLATION OF SILT FENCE
B) ROUGH GRADE / SEDIMENTATION CONTROL 07-16 THRU 07-22
C) TEM. CONSTRUCTION ROADSN/A
D) STRIP AND STOCKPILE TOPSOIL07-16 THRU 07-22
E) STORM FACILITIESN/A
F) TEMP. CONTROL MEASURES07-22 THRU 08-8
G) FOUNDATION / BUILDING RENOVATION07-15 THRU 09-21
H) SITE IMPROVEMENTS07-16 THRU 09-22
I) FINISH GRADING08-15 THRU 09-21
J) PERMANENT CONTROL MEASURES09-10 THRU 09-25

LITHONIA LIGHTING® FEATURES & SPECIFICATIONS INTENDED USE — Ideal for parking areas, street lighting, walkways and car lots. CONSTRUCTION — Rugged, die-cast, soft comer aluminum housing with 0.12" nominal wall thickness, Die-cast door frame has impact-resistant, tempered, glass lens that is fully gasketed with one-piece tubular silicone. Finish: Standard finish is dark bronze (DDB) polyester powder finish, with other architectural colors available. CONTOUR OPTICS - Anodized, aluminum reflectors: IES full cutoff distributions R2 (asymmetric), R3 (asymmetric), R4 (forward throw) and RSS (square) are interchangeable. High-performance anodized, segmented aluminum Soft Square Lighting

NOTE: EXCEPT WHERE NOTED AT NEW

EXISTING TO REMAIN

ADDITION, ALL EXTERIOR LIGHTING IS



All dimensions are inches (centimeters) Note: Specifications subject to change without notice. unless otherwise specified. \*Weight as configured in example below. Example: KAD 400M R3 TB SCWA SPD04 LPI ORDERINGINFORMATION For shortest lead times, configure product using **bolded options**. <u>Arm length</u> Standard reflectors R2 | IES type II 04 4" arm asymmetric<sup>7</sup> 06 6" arm R3 IES type III asymmetric<sup>7</sup> **09** 9"arm WBD\_\_\_ Wall bracket 100MHC' 150MHC SR3 IES type III asymmetric 347 R4 IES type IV forward throw 1 WWD\_\_\_ Wood or pole wall 12 12" arm SR45C IES type IV forward throw paners in the same in Ships separately 13,14 250S 400S SCWA Super CWA pulse-start ballast DAD12P Degree arm (pole) R5S IES type V square DAD12WB Degree arm (wall)

Length: 17-1/2 (44.5)

Width: 17-1/2" (44.5)

Depth: 7-1/8 (18.1)

							territori	or snipments to 0.5. les, SCWA must be d to comply with EISA.		Mast arm external fitter Twin mounting bar	
Option	s						Fi <b>nish</b> <sup>20</sup>				Lamp <sup>21</sup>
Shippe SF DF PD PER QRS QRSTD WTB	d installed in fixture  Single fuse (120, 277, 347V) <sup>16</sup> Double fuse (208, 240, 480V) <sup>16</sup> Power tray <sup>17</sup> NEMA twist-lock receptacle only (no photocontrol)  Quartz restrike system <sup>18</sup> QRS time delay <sup>18</sup> Terminal wiring block <sup>17</sup>	INTL  REGC1  Shipped: HS PE1	CSA Certified Available MH for probe start shipping outside the U.S. California Title 20, effective 1/1/2010 separately <sup>13</sup> House side shield NEMA twist-lock PE (120, 208, 240V)	PE3 PE4 PE7 SC VG WG	NEMA twist-lock PE (34 NEMA twist-lock PE (48 NEMA twist-lock PE (27 Soption Vandal guard <sup>19</sup> Wire guard <sup>19</sup>	80V) 77V)	(blank) DWH DBL DMB DNA Super Dur DDBXD DBLXD	Dark bronze White Black Medium bronze Natural aluminun <u>able Finishes</u> Dark bronze Black	DNAXD DWHXD DDBTXD DBLBXD DNATXD DWHGX	Textured dark bronze Textured black Textured natural aluminum	L/LP

WID	erminai wi	und block					
	Notes 1 Not available 2 Not available 3 These wattag						
				<b>ipfitter</b> (RPx ist be used with			California Titl
			Number of fix	xtures			4 Must be orde 5 These wattag
Tenon O.D. 2-3/8"	One T20-190	Two@180° T20-280	Two@90° T20-29022	Three@120° T20-320 <sup>22</sup>	Three@90° T20-390 <sup>22</sup>	Four@90° T20-49022	option to be a California for REGC1 in not

reflectors IES full cutoff distributions SR2 (asymmetric), SR3 (asymmetric) and SR4SC (forward throw, sharp cutoff). High-performance reflectors attach with tool-less fasteners and are rotatable and interchangeable. ELECTRICAL — Ballast: High pressure sodium: 70-150W is high reactance, high power factor. Constant

wattage autotransformer for 200-400W. Metal halide: 70-150W is high reactance, high power factor and is standard with pulse-start ignitor technology. "SCWA" not required. Constant wattage autotransformer for 175-400W. Super CWA (pulse start ballast), 88% efficient and EISA legislation compliant, is required for metal halide 151-400W (SCWA option) for US shipments only. CSA, NOM or INTL required for probe start shipments outside of the US. Pulse-start ballast (SCWA) required for 200W, 320W, or 350W. Ballast

LISTINGS — UL Listed (standard). CSA Certified (see Options). UL listed for 25°C ambient and wet locations.

WARRANTY — 1-year limited warranty, Complete warranty terms located at

www.acuitybrands.com/CustomerResources/Terms and conditions.aspx

Socket: Porcelain, horizontally oriented medium base socket for 70-150M. Mogul base socket for 175M and EPA: 1.2 ft.<sup>2</sup>

above, and 70-4005, with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V.

\*Weight: 35.9 lbs (16.28 kg)

is 100% factory-tested.

IP65 rated in accordance with standard IEC 529.

lable with SCWA. ilable with 480V. attages do not comply with tages require the REGC1 be chosen for shipments into 2-3/8" | T20-190 | T20-280 | T20-290<sup>22</sup> | T20-320<sup>22</sup> | T20-390<sup>22</sup> | T20-390<sup>22</sup> | T20-490<sup>22</sup> | T20-390<sup>22</sup> | T 4 T35-190 T35-280 T35-290<sup>22</sup> T35-320 T35-390<sup>22</sup> T35-490<sup>22</sup>

8 High performance reflectors not avail- 15 Available with SPD04 and SPD09. 270, 2717; In Canada: 120, 277, 347V),
11 Consult factory for available wattages.
12 9" arm is required when two or more luminaires are priented on a 200 4 mile. luminaires are oriented on a 90° drilling 20 See www.lithonia.com/archcolors for

Project number 16031

**O** 0

Michiç 1326 Grand

OUTDOOR

KAD-M-S

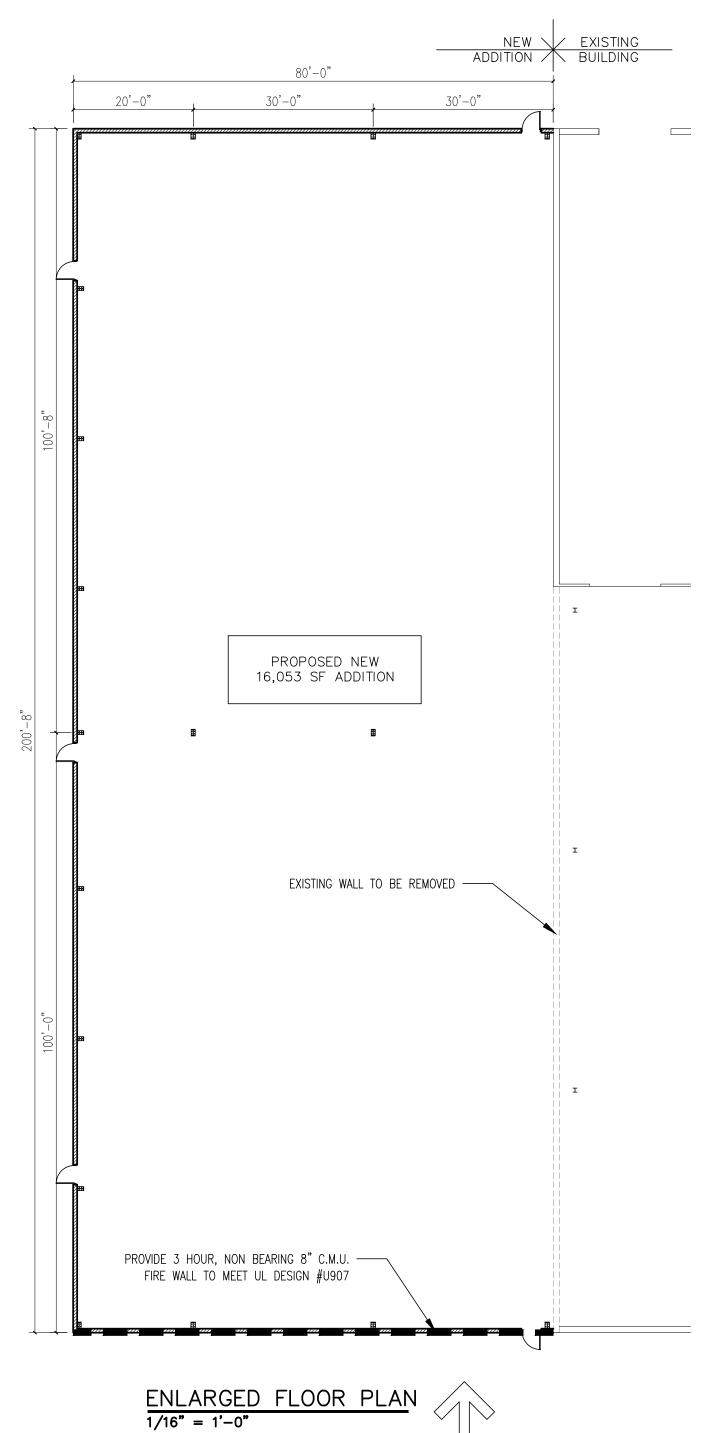
KAD

METAL HALIDE: 70-400W

20'TO 35' MOUNTING

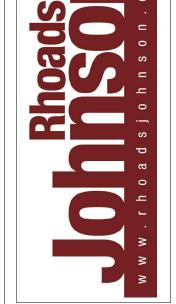
HIGH PRESSURE SODIUM: 70-400W

16 Must specicy voltage. N/A with TB. 17 Only available with SR2, SR3 and



ASSELIN MCLA
ARCHITECTURAL GRO
4488 WEST BRISTOL ROAD FLINT [MI] 48507 [PHONE: [810] 230-9311 FAX:

WWW.AMARCHITECTURALGROUP.COM



Michigan Rod Products
1326 Grand Oaks drive, Genoa Township,
Livingston Co. MI

No.DescriptionDate1REVISED FOR PRICING04-18-162SITE PLAN REVIEW05-02-163REV. FOR SITE PLAN REVIEW05-25-16

FLOOR PLANS & ELEVATIONS

Project number 16031

GENOA CHARTER TOWNSHIP PLANNING COMMISSION PUBLIC HEARING May 9, 2016 6:30 P.M. MINUTES

<u>CALL TO ORDER:</u> The meeting of the Genoa Charter Township Planning Commission was called to order at 6:30 p.m. Present were Chairman Doug Brown, Barbara Figurski, Diana Lowe, James Mortensen, Chris Grajek, John McManus, and Eric Rauch. Also present was Kelly VanMarter, Community Development Director/Assistant Township Manager, Brian Borden of LSL Planning, and an audience of six.

<u>PLEDGE OF ALLEGIANCE:</u> The pledge of allegiance was recited.

<u>APPROVAL OF AGENDA:</u> **Moved** by Commissioner McManus, seconded by Commissioner Grajek, to approve the agenda as presented. **The motion carried unanimously.** 

CALL TO THE PUBLIC: The call to the public was made at 6:32 pm.

Mr. Dan Wholihan of PO Box 182, Brighton is concerned about Item #1 on tonight's agenda. He is not sure there is room for 16 units to be developed in this area as most of it is swamp land. Ms. VanMarter showed Mr. Wholihan where the property is located. He is satisfied as he believed it was in a different location.

The call to the public was closed at 6:35 pm.

**OPEN PUBLIC HEARING #1...**Review of a request for an extension to the Mountain Top Estates Site Plan dated 3-17-06 and Impact Assessment dated 4-20-06 for a proposed 16-unit, single-family site condominium located north of Cunningham Lake Road and east of Sundance Trail, known as Mountain Top Estates. The request is petitioned by Robert Moore. This project has been granted extensions by the Planning Commission on 5-14-07, 4-13-09, 4-12-10, and 3-25-13.

## Planning Commission disposition of petition:

A. Disposition of Site Plan Extension

Chairman Brown noted that in addition to the extensions stated on the agenda, other administrative extensions have been granted for this project.

Mr. Moore stated he has owned this property for 30 years and it was purchased by Doyle Homes, who was going to develop the proposed site plan. Because the economy went down in 2008, it was not done. Mr. Moore has since purchased the property and taken on the project. Now that the economy has turned around, he would like to once

again sell the property to someone who will develop it. Mr. Moore addressed the concerns of the planner, engineer and the Brighton Area Fire Authority's review letters.

Mr. Borden stated he is recommending approval of the extension; however, he wants the applicant to be aware that if any changes to the ordinance are made in the future, they will need to be addressed and the site plan will need to be amended.

Commissioner Mortensen asked Mr. Moore if he is agreeable of not allowing parking on any street. He stated he is and it will become part of the master deed.

Commissioner Mortensen stated that the item noted in the Brighton Area Fire Authority's letter regarding the on-site water needs and the suggestion of the Township requiring well-filled cisterns should be determined by the developer and property owners and not part of the site plan approval.

The call to the public was made at 6:46 pm with no response.

**Moved** by Commissioner Mortensen, seconded by Commissioner Figurski, to approve the Site Plan Extension for Mountain Top Estates with the following conditions:

- The master deed will be amended to prohibit on-street parking.
- The letter from Ace Civil Engineering, Inc. shall be reviewed by the Township engineer to ensure it meets their requirements.
- The requirement for on-site water, such as cisterns, will be optional and be considered by the developer and home owners.

## The motion carried unanimously

**OPEN PUBLIC HEARING #2...**Review of an Impact Assessment and Site Plan and for the proposed Misty Meadows Drive private road located on the west side of S. Latson Road, south of Crooked Lake Road. The private road will serve nine lots. The request is petitioned by GFG Investments Properties.

### Planning Commission disposition of petition:

- A. Recommendation of Environmental Impact Assessment (3-23-16)
- B. Disposition of Site Plan (4-20-16)

Chairman Brown stated that the Site Plan does not need to be approved by the Planning Commission as it meets the requirements of the Subdivision Act. The private road needs to be approved.

Mr. Brent LaVanway of Boss Engineering and Mr. Guy Genzel, the property owner, were present.

Mr. LaVanway gave a brief history and description of the property and project. He stated the Livingston County Road Commission has approved the location of the road. He addressed the cistern requirement in the Brighton Area Fire Authority's letter. He would like to address this at a later date to determine if the demand is there, and if so, then it can be installed. They will install evergreen trees as a buffer between the road and the property to the south as requested by Mr. Borden. They can submit a plan to staff for their review.

Mr. Borden feels the conditions are present that warrant consideration of a private road not built to Road Commission standards. He also recommended that a "Private Road Maintenance Agreement" be provided. He noted that this was given to the Commissioners by the applicant this evening.

Commissioner Grajek questioned the need for cisterns for homes greater than 3,600 square feet as recommended by the Brighton Area Fire Authority. Commissioner Mortensen stated he has been on the Planning Commission for 20 years and the Township has never required a cistern. He would recommend making this optional for consideration by the developer and future homeowners. Commissioner Grajek wants to ensure that the Township is in compliance with the BAFA. Commissioner Mortensen stated the Fire Authority is making a recommendation.

Ms. VanMarter stated that this comment on the letters from the BAFA for both items on tonight's agenda were a surprise to staff. She has set up a meeting with them to discuss these new requirements and to determine who has jurisdiction and how they should be addressed. She noted that adding municipal water and sewer to these developments could change the rural nature of the Township.

Chairman Brown suggested that the applicant strike the second sentence to the response in Item "F" of the Environmental Impact Assessment. Mr. LaVanway agrees.

**Moved** by Commissioner McManus, seconded by Commissioner Figurski, to recommend to the Township Board approval of the Environmental Impact Assessment dated March 23, 2016 with the removal of the second sentence of the response to Item "F". **The motion carried unanimously**.

**Moved** by Commissioner Mortensen, seconded by Commissioner Lowe, to approve the Site Plan for Misty Meadows dated April 20, 2016 with the following conditions:

- The Private Road Maintenance Agreement provided this evening shall be reviewed and approved by the Township Attorney.
- Evergreen plantings shall be provided along the roadway adjacent to the road at the southeast corner of the property and reviewed and approved by Township Staff.
- The requirement in the Brighton Area Fire Authority's letter dated May 14, 2016, Paragraph 1, regarding the water related fire suppression issues are to be regarded as optional by the Township, subject to review by Township Staff and the Township Attorney.

The motion carried unanimously.

#### **Administrative Business:**

Staff Report

Mr. VanMarter stated there will be two items on next month's agenda.

• Approval of the April 11, 2016 Planning Commission meeting minutes:

It was noted that Commission McManus was present at the meeting.

**Moved** by Commissioner McManus, seconded by Commissioner Lowe, to approve the minutes of the April 11, 2016 Planning Commission Meeting as amended. **The motion carried unanimously.** 

Member Discussion:

Chairman Brown stated there is a possibility that Commissioner Mortensen will not be on the Planning Commission after November. He may not be re-elected as a Trustee or the new Township Supervisor may not appoint him as the liaison to the Planning Commission. Commissioner Mortensen makes a lot of the motions for the Commission so he would like others to begin making motions, specifically for site plan dispositions.

Commissioner Lowe feels all Commissioners are able to make the motions.

Ms. VanMarter suggested that if a Commissioner feels he or she would like to make a motion on an item, they could alert the Commission during the discussion.

Commissioners McManus and Lowe will not be at the July meeting.

Adjournment

**Moved** by Commissioner Lowe, seconded by Commissioner Figurski, to adjourn the meeting at 7:22 pm. **The motion carried unanimously.**