Director's Report

Proj	ect Nan	ne: '	910	ı1 Hiç	ghland					
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Description: Revised special land use approval and final site plan approval

Date on Agenda this packet pertains to: September 18, 2025

⊠Public Hearing	⊠Special Land Use
□ Initial Submittal	□Rezoning
⊠Revised Plans	□Other:
□Preliminary Approval	
⊠Final Approval	

Contact	Consultants & Departments	Approval	Denial	Approved w/Conditions	Other	Comments
Sean O'Neil	Community Development Director					Based on comments from staff & consultants
Mike Leuffgen	DLZ			\boxtimes		See letter dated 09/05/2025
Matteo Passalacqua	Carlisle Wortman Associates, Inc					See letter dated 08/27/2025
Jason Hanifen	WLT Fire Marshal			\boxtimes		See letter dated 08/19/2025



September 5, 2025

Sean O' Neil, Director Community Development Department Charter Township of White Lake 7525 Highland Road White Lake, Michigan 48383

RE: 9101 Highland Road-Proposed Commercial Development- Final Site Plan/Final Engineering Plan

Review – 3rd Review

DLZ No. 2445-7696-06 Ref: Design Professional: Stonefield Engineering & Design

Dear Mr. O' Neil,

Our office has reviewed the above-mentioned revised plan prepared by Stonefield Engineering & Design and dated August 12, 2025. These plans were reviewed for conformance with the Township Engineering Design Standards. We offer the following comments for your consideration:

In addition, the following remaining comments from our Preliminary Site Plan review letter dated January 7, 2025 are listed below:

- a) Any work within the existing two (2) watermain easements that run parallel to M-59 shall require permission from the Township. Comment remains as a notation. Design engineer notes that they will coordinate with WLT DPW for all work proposed in the watermain easements and that plans have been submitted directly to WLT DPW for permission/approval. Per WLT DPW, approval for work to begin in the two easements will be granted at the time of preconstruction meeting.
- b) ADA parking spaces will need to meet ADA standards in terms of slopes and dimensions; further details will be required at the time of Final Site Plan/Final Engineering Plan submittal/review. Comment partially addressed. Although grades at ADA spaces and loading areas are shown on FEP, please provide a blown-up grading detail of all ADA spaces showing proposed grades and % slopes. We note that slopes will need to conform to ADA standards. Comment partially addressed. ADA grading details for spaces for both buildings plus the loading zone detail have been provided; however, there are several areas where proposed grades on details, as well as other grading items that will require revision, do not match those shown on grading plan. Please see attached marked up plan Sheet C-4. Comment addressed. Proposed grades on grading details now match grading plan.

INNOVATIVE IDEAS EXCEPTIONAL DESIGN UNMATCHED CLIENT SERVICE

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c) Sheet C-3-The existing sidewalk along M-59 appears to be in disrepair. In addition, the sidewalk does not meet the requirements of the current Township Zoning Ordinance Sections 5.20 and 5.21 in terms of required clear zones. We defer to the Township as to whether a new sidewalk meeting the Zoning Ordinance shall be required. Comment partially addressed and remains. A new 8' wide asphalt pathway is now proposed. The proposed pathway location continues to not meet the required clear zone dimensions. We continue to defer to the Township regarding the inadequacy of the required clear zones. In addition, a portion of the proposed pathway is now shown in a proposed sidewalk easement. The sidewalk easement exhibit(s) will be required to be reviewed by our office prior to execution and recording of the easement. The proposed pathway now appears to conform with the required clear zone dimensions as outlined in Township Zoning Ordinance 5.20. We consider the portion of the above comment regarding this to be addressed. The portion of the above comment referencing the sidewalk easement remains. Comment addressed. Revised sidewalk easement exhibit has been received. Review comments from our office will be sent under separate cover.

Comment addressed. Per our review letter dated July 31, 2025, the sidewalk easement exhibit document was acceptable and recommended for execution and recording.

- d) Sheet C-3-There is a recorded temporary construction easement shown. Please indicate if this easement has been vacated. If the easement has not been vacated, it shall be required to be vacated prior to FSP/FEP approval. Comment remains. Design engineer states that they will coordinate vacation of the easement with the Township prior to FSP/FEP submittal. Comment addressed. Design engineer states "Per Liber 19187 Page 333, the temporary easement shall terminate upon completion date of construction. This in regard to the water main within the site frontage and therefore the easement is terminated. The temporary construction easement has been removed from the survey and plans." Comment remains as a notation.
- e) There is a recorded 20' wide easement for ingress and egress that runs semi parallel to Highland Road; this will be required to be vacated prior to FSP/FEP approval. Comment remains. Design engineer states that they will coordinate vacation of the easement with the Township prior to FSP/FEP submittal. Comment remains. Design engineer notes that application for vacation of existing easement has been requested from the Township and that the engineer is awaiting further direction from the Township. Per design engineer, the applicant's attorney is in process of vacating the existing access easement.
- f) Sheet C-4- What is the grading intent for the northeastern greenspace area of the site? We note that there is an existing storm sewer end section which connects to the existing 12" diameter storm sewer that crosses M-59. It is assumed that this end section is to collect the drainage at the low point of approximately 966' and route the drainage to the north under M-59; however, the existing CB to the north (#70140) shows a higher invert elevation than the existing ES elevation to the south. Please clarify. We also note that the site post- development runoff to this end section shall be < or = to the current runoff (Q) to this area. Comment addressed at preliminary level and remains. The existing pipe shall be removed, and the area regraded such that the depression shall be filled. Per the design engineer, calculations are intended to be provided on the FSP/FEP to demonstrate post development runoff to the M-59 right of way be < or = to the current runoff. Comment partially addressed. The

INNOVATIVE IDEAS EXCEPTIONAL DESIGN UNMATCHED CLIENT SERVICE

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existing pipe has been demolished, and the depression will be filled and the area graded out as shown on the grading plan. Comment regarding calculation for pre-versus post development runoff for this area is outstanding. Comment addressed. Per the post development drainage map provided, it now shows that the drainage that originally flowed to the M-59 ROW via the 12" ES to the south of existing storm CB #70140, now flows south and is collected in the proposed on site CB D-204.

Comment remains as a notation.

- g) Sheet C-5- Provide/show retention basin spillway and pathway of overland flow. In addition, 1' of freeboard is required for the basin. Comment addressed at the PSP level and remains. A spillway and a general pathway of the overland flow are now shown. 1' of freeboard for basin is now shown. It will be required to be shown/demonstrated on the Final Engineering Plan that an overflow event from the retention basin shall not impact adjacent properties. Comment outstanding regarding basin overflow routing. Although the design engineer notes that the basin overflow will flow to the southeast to an existing low point at the southern property line and will not impact the adjacent properties, this is not clear as shown on the Stormwater Management Plan Sheet C-5. Additional offsite grades beyond the southern property line shall be required in order to clearly show where the basin overflow would go relative to the existing residential homes that are to the east and south of the 9101 property. Comment partially addressed. Two additional catch basins will collect storm water runoff at the SW corner of the site and on the western side of the site/retention basin. The emergency overflow for the proposed basin has now been moved from the south side of the basin to the west side of the basin. The basin overflow drainage is shown to be routed to an existing CB beehive structure just to the west of the property line. Does this existing structure have the capacity to accommodate overflow from the retention basin? What is the condition of this existing basin? Is the adjacent property owner willing to grant an easement for storm drainage to this structure? **Per** design engineer, this was discussed with our office on August 11, 2025. The engineer states the following: "the proposed site development eliminates off-site stormwater drainage by catching stormwater onsite within storm structures and conveying it to the on-site retention basin. This is an improvement compared to existing conditions. Additionally, the retention basin is sized for the back-to-back 100-year storm and site soils provide 40 in/hr of infiltration. The emergency spillway will not be utilized under normal conditions-only in a very sever stormwater event. Therefore, is has been determined that the emergency spillway design is adequate and no easement is required with the adjacent property owner."
- h) We note that this property falls within a wellhead protection area. We defer to Township DPS regarding special requirements. Comment remains as a notation.
- i) We defer to the Township Fire Department regarding hydrant coverage. **Comment remains as a notation.**

FSP/FEP Comments

We note that comments from our July 18, 2025 review letter are in *italics*. Responses to those comments are in **bold**. New comments are in standard font. We also note that a response letter from the design engineer dated August 12, 2025 was received by our office.

General

- 1. ALTA/NSPS Survey Sheet-Site BM #2- Arrow for BM label is shown as pointing to hydrant while BM description references traffic signal post. Please correct and update all relevant sheets (C-2, C-4 to C-6). Comment outstanding. Correction has not been made. We note that Site BM #2 on Sheet C-2 and all subsequent sheets now shows and lists the hydrant as BM #2; the ALTA/NSPS Survey sheet lists the traffic signal as BM#2 but is shown as pointing to the hydrant. Please go through all plan sheets and ALTA survey and assure that the benchmarks listed and what they are pointing to is consistent.
 - Comment addressed. All sheets, including the ALTA/NSPS survey sheet now match regarding BM#2.
- 2. Cover Sheet C-1- Sheet Index-Sheet C-7 in the Index should read as <u>POST-Development</u>. Comment addressed. Revision has been made.
- 3. Site Plan- Sheet C-3- We note that the architectural plans dated 05/29/2025 (Sheets A-100 and A-101) show four (4) suites for the western building and three (3) suites for the eastern building. This does not match what is shown on the engineering plan. Comment addressed. The engineering plan and the architectural plans (dated 08/12/2025) now match regarding the number of suites per building.
- 4. Cover Sheet C-1- Plan Reference Materials- Bullet point 1-ALTA/NSPS Survey- Latest date is 08/25/2025.

Sanitary Sewer

1. Sheet C-8- Provide top of pipe and bottom of pipe elevations for all areas where lead crosses other utilities. Comment partially addressed. There are a few areas where top of pipe and bottom of pipe elevations have not been provided: 1) Western building – Where sanitary lead crosses water lead for the sanitary lead that goes to the grease interceptor; 2) Western building – Sanitary lead out from



- grease interceptor crosses watermain. Comment rescinded. Water and sanitary layouts have changed so this comment is no longer applicable.
- 2. Architectural Sheet A-100- We recommend showing the location of the grease interceptor on this sheet per engineering plan. Comment addressed. Grease interceptor locations are now shown on architectural plan Sheets A-100 and A-101.
- 3. Architectural Sheet A-101- Update location of grease interceptor per engineering plan. Also show location of second grease interceptor on this sheet. Comment addressed. Grease interceptor locations are now shown on architectural plan Sheets A-100 and A-101.
- 4. Sheet C-8-Show grease interceptors accurately on this sheet. There are 3 covers on these structures; only two covers are shown for the interceptors on this sheet. Comment addressed. Grease interceptor manholes are now shown correctly on this plan sheet.
- 5. Sheet C-8- Move sanitary line for the eastern building (north side) away from the knee wall base influence. Comment addressed. Sanitary line has been relocated away from knee wall base.
- 6. Sheet C-8- Lead segment for eastern building near knee wall shall require a cleanout as the proposed current length is 97'. Cleanouts are required every 75' for leads. Comment addressed. Cleanouts have now been provided at a minimum of every 75'.
- 7. Sheet C-8- The 95' of lead between the two buildings requires a cleanout. Cleanouts are required every 75' for leads. Comment rescinded. The sanitary layout has been revised and cleanouts are now shown at a minimum of every 75'.
- 8. Sheet C-8- Shift sanitary lead at storm CB D-203 such that there is a minimum of 10' horizontal separation between storm and sanitary. Comment addressed. There is now a minimum of 10' horizontal separation between storm and sanitary.
- 9. Sheet C-8- Add a cleanout where the sanitary lead from the western building intersects with the sanitary lead from the eastern building. Provide cleanout invert. Comment rescinded The sanitary layout has been revised; cleanouts are shown at all wye connections and directional changes.
- 10. Sheet C-8- Remove the grease interceptor that is right against the eastern building on the south side.

 This is the interceptor just to the east of the proposed 1,500-gallon interceptor. Comment addressed.

 Per the design engineer this is not a grease interceptor. The tank is a grease tank for the fryers.
- 11. Sheet C-8- See red-lined profile sheet for snippet of western building grease interceptor. Provide specified lead footage and wye invert. Comment rescinded. The sanitary sewer layout has been revised; all lead footage and invert information has been provided.
- 12. Sheet C-8- It is required that there is a minimum 12" drop and maximum 15" drop at the monitoring MH per OCWRC requirements. We note that these criteria were previously met but due to the new sanitary sewer layout, these criteria have now not been met.

13. Sheet C-8- There are a few items that will require additional notes or clarification. Please reference red-lined sheet we have provided with this review.

Watermain

- 1. Sheet C-8- Provide top of pipe and bottom of pipe invert elevations for all areas where lead crosses other utilities. Comment outstanding. Provide above requested information where lead for eastern building heads West and crosses over proposed storm sewer on Sheet C-8 and for western building water service lead where it crosses sanitary lead for western building. Comment addressed. Per the design engineer, all lead crossings for storm and watermain are shown on the storm sewer profiles. The sanitary and water lead crossing mentioned in the above comment has now been eliminated.
- Sheet C-8-Westernmost building-Move water service line main away from building and outside of foundation influence as it is too close to the proposed foundation, in particular at drive thru window.
 Comment addressed. The proposed watermain has been relocated away from the influence of the proposed foundation and drive thru window.
- 3. Sheet C-8-Specify/show TSV&W at proposed connection to existing watermain. Comment partially addressed. The TSV&W is now specified at the watermain connection. Please correct spelling of 'ALKE' to 'LAKE" in connection note on this sheet.
- 4. Sheet C-8- Provide/show watermain stationing on this sheet. Comment addressed. Stationing has now been provided.
- 5. Sheet C-8- Call out hydrant on this sheet. Comment addressed. Hydrant has been called out on this sheet.
- 6. Sheet C-8- Call out sanitary/watermain crossing where sanitary crosses watermain just to the east of the grease interceptor for the western building. Provide TP/BP elevations and demonstrate a minimum 18" vertical separation with the watermain above sanitary. Comment rescinded. This crossing has been eliminated due to reconfiguration of the watermain and sanitary sewer on site.
- 7. Sheet C-8- Move proposed sign near M-59 such that there is a minimum of 10' horizontal separation between it and the watermain. Currently, 5' of separation is shown. Comment addressed. Sign has been relocated to provide 10' horizontal separation between it and watermain.
- 8. Sheet C-8- Currently a 10' wide easement is proposed for the watermain. A 20' easement with the watermain centered in the easement is required. Comment partially addressed. A 20' wide easement is now shown. Please extend easement at hydrant at least 10' to the west of hydrant. The watermain easement exhibit document shall be updated to reflect this change.

INNOVATIVE IDEAS EXCEPTIONAL DESIGN UNMATCHED CLIENT SERVICE

- 9. Sheet C-8- Specify the Ductile Iron pipe as Class 54. Comment addressed. Material has been specified.
- 10. Sheet C-8- The watermain is too close to the drive thru window for the western building. Move watermain such that there is a minimum of 10' horizontal separation between it and the drive thru. Comment addressed. Watermain has been relocated to provide proper clearance.
- 11. Sheet C-8-Western building- Water lead and sanitary lead-Where these two leads cross right where they exit the building-Provide crossing information. The water service lead shall be located above the sanitary lead with a vertical separation of 18". Comment rescinded. This crossing has been eliminated due to reconfiguration of the watermain and sanitary sewer on site.
- 12. Sheet C-8- Western building- There shall be a minimum of 10' horizontal separation between the hydrant and grease interceptor. **Comment addressed. Minimum 10' separation is now shown.**
- 13. Sheet C-8- Change 90-degree bend at hydrant to 2–45-degree bends. Comment addressed. 45-degree bends are now shown.

Grading/Paving

- 1. Provide a Soil Erosion plan and also reference this in the Sheet Index on Sheet C-1. Comment partially addressed. A SESC plan sheet has now been provided; however, please provide the following revisions to this sheet: 1) Sequence of Construction-NOTE-Line 2-Correct spelling of 'guile' to 'guide'; 2) Large bold note regarding trees-Line 2- Correct spelling of 'construction' to 'construction.'; 3) The location of the silt fencing line is not clear. Provide adequate separation on plan between the lines for Limit of Disturbance and Silt Fencing; 4) Sequence of Construction- NOTE-Line 4-Change 'City' to 'Township.' Comment addressed. All corrections have been made.
- 2. Sheet C-4-Please reference red lined plan sheet for a few concerns. Comment partially addressed. The majority of comments have been addressed; however, there are additional items on the grading plan sheet (due to the addition of ADA grading details) that shall require revision. The marked up grading plan red-lined sheet has been attached for the design engineer's use. Comment partially addressed. The rim elevation of 970.85 for storm structure D-201 does not match the rim elevation of 970.90 on Sheets C-8 and C-19.
- 3. Architectural Sheet A-101-The ADA spaces and loading locations are incorrect. Please revise locations on this sheet. Please reference engineering plan for correct locations.



Stormwater Management

- 1. Provide storm sewer profiles (including ES and partial profile of the basin) showing the following: 1) Pipe crossings (minimum 18" vertical separation); 2) Compacted sand backfill where needed; 3) Rim elevations; 4) Pipe length, slope, type of pipe, and diameter: 5) Invert elevations; 6) HGL 7) Diameter of all CBs and/or MHs-Note that minimum 48" diameter is required except for inlets where stormwater is discharged directly into a CB(these may be 24" diameter). Please check that plan and profiles match in terms of rim elevations, pipe lengths, slopes, etc.... Comment partially addressed. The majority of information requested has now been provided; however, there are some revisions required to the profiles. Please see attached red lined Sheet C-19.
- 2. Provide water quality unit detail and demonstrate that size is adequate for 80% TSS removal. Comment partially addressed. A water quality unit detail(Contech Cascade) has now been provided; however, please provide the Contech table showing this unit is of adequate size to remove 80% TSS. Comment partially addressed. Contech table demonstrating unit is of adequate size to remove at least 80% TSS has now been provided. Please update project address (currently shown as 9191 Highland Road) to 9101 Highland Road on Pages 1-4 of Contech report.
- 3. Provide drainage area map. Comment partially addressed. Drainage area map has been provided; however, please adjust C factor for the basin surface area to 1.00. See 'Sheet flow to Basin' on Sheet C-7- A portion of the 'Grass, Good' for the basin area shall be C=1.00. Comment partially addressed. A C-factor =1.00 has now been shown for the basin. This change of C (from 0.202 to 0.546) to the "Sheet Flow to Basin Areas" shall be factored into the 'Composite C Value' for the Stormwater Management Calculations on Sheet C-18.
- 4. Sheet C-5-Revise note: 'See Sheet C-17 for Stormwater Management Calculations' to 'See Sheet C-15...' Comment outstanding. Note was updated to Sheet C-17, but the plan sheets have been renumbered. Please update this note to reference Sheet C-18. Comment addressed. Sheet references have now been updated.
- 5. Sheet C-5-Provide basin spillway detail. Note that spillway shall be an armored spillway. Comment partially addressed. Spillway detail has now been provided. Please add a note to sheets C-4 and C-5 to reference Sheet C-17 for spillway detail. Comment addressed. A note has been added to both sheets.
- 12. Sheet C-8- Shift storm sewer that runs adjacent to grease interceptor on east side of eastern building such that there will be a minimum of 10' horizontal separation between the interceptor and storm sewer. Comment addressed. Storm sewer has been shifted such that there is 10' minimum horizontal separation between it and watermain or sanitary sewer.

- 13. Sheet C-8- Provide crossing information where the storm sewer and water line cross just north of storm MH D-201. Comment outstanding. Watermain crossing is shown on storm sewer profile; however, it is in incorrect location. Currently, it is shown on profile between Structures D-101 and D-201. The main should be between Structures D-201 and D-202.
- 14. Sheet C-18- HydroCAD Model- Correct 'Detention' to 'Retention.' This shall be corrected in two places. Comment outstanding.
- 15. Sheet C-18- Stormwater System Design (10-Year Storm)- There are several items on here which shall require revision. Please see snippet on red lined profiles sheet for comments. **Comment outstanding.**

Landscape Plan

 Sheet C-10- Shift the Serbian Spruce and White Fir trees at least 10' horizontal separation from the proposed storm sewer pipe that enters the retention basin from the south. Comment addressed.
 Trees are now located a 10' minimum horizontal separation from storm sewer.

Required Permits and Approvals

The following permits and approvals will be required:

- 1. Permit from MDOT for all work within the M-59 Road right of way. Plans have been resubmitted to MDOT for final approval on 08/12/2025.
- 2. SESC permit from OCWRC. Plans have been submitted to OCWRC on 08/12/2025.
- 3. Permission from White Lake Township for work within the two (2) existing watermain easements that run parallel to M-59. *Plans have been submitted to WLT DPW for permission/approval.* **Per WLT DPW, approval for work to begin within the two easements will be granted at the preconstruction meeting.**
- 4. Executed Stormwater Maintenance Agreement and exhibit. Agreement without exhibits has been received. Comments from our office shall be forthcoming under separate cover. Please reference Agreement comments in our review letter dated July 31,2025. Stormwater Access easement exhibit and Stormwater Pipe easement exhibit have been received with the current submittal. Review comments are forthcoming under separate cover.
- 5. Sidewalk easement for the portion of sidewalk that is outside of M-59 Road ROW. Exhibit received by our office with the current submittal; comments will be sent under separate cover. Revised easement exhibit has been resubmitted. Comments from our office shall be forthcoming under

- separate cover. Please reference our review letter dated July 31, 2025. Our office recommended execution and recording of the sidewalk easement exhibit.
- 6. Access easement to the property to the west. Exhibit received by our office with the current submittal; comments will be sent under separate cover. Revised easement exhibit has been resubmitted. Comments from our office shall be forthcoming under separate cover. Please reference our review letter dated July 31, 2025. Our office recommended execution and recording of the access easement exhibit.
- 7. A permit from EGLE for the proposed watermain extension. **Per the design engineer, the EGLE** permit application will be submitted by WLT DPW. This was requested on 08/12/2025.

Recommendation

While the majority of the above comments have been addressed, we are not recommending approval of the plan at this time. We note that additional comments have been generated due to changes in the layout of the watermain and sanitary sewer. The above comments are required to be addressed and revised plans submitted for our review. *In order to streamline the review process, we request a response letter to the above comments be provided by the engineer upon revised plan resubmittal.*

Please contact our office should you have any questions.

Sincerely,

DLZ Michigan

Michael Leuffgen, P.E.

Department Manager

Victoria Loemker, P.E.

Senior Engineer

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Attachments: Sheet C-8- Utility Plan- Red lined

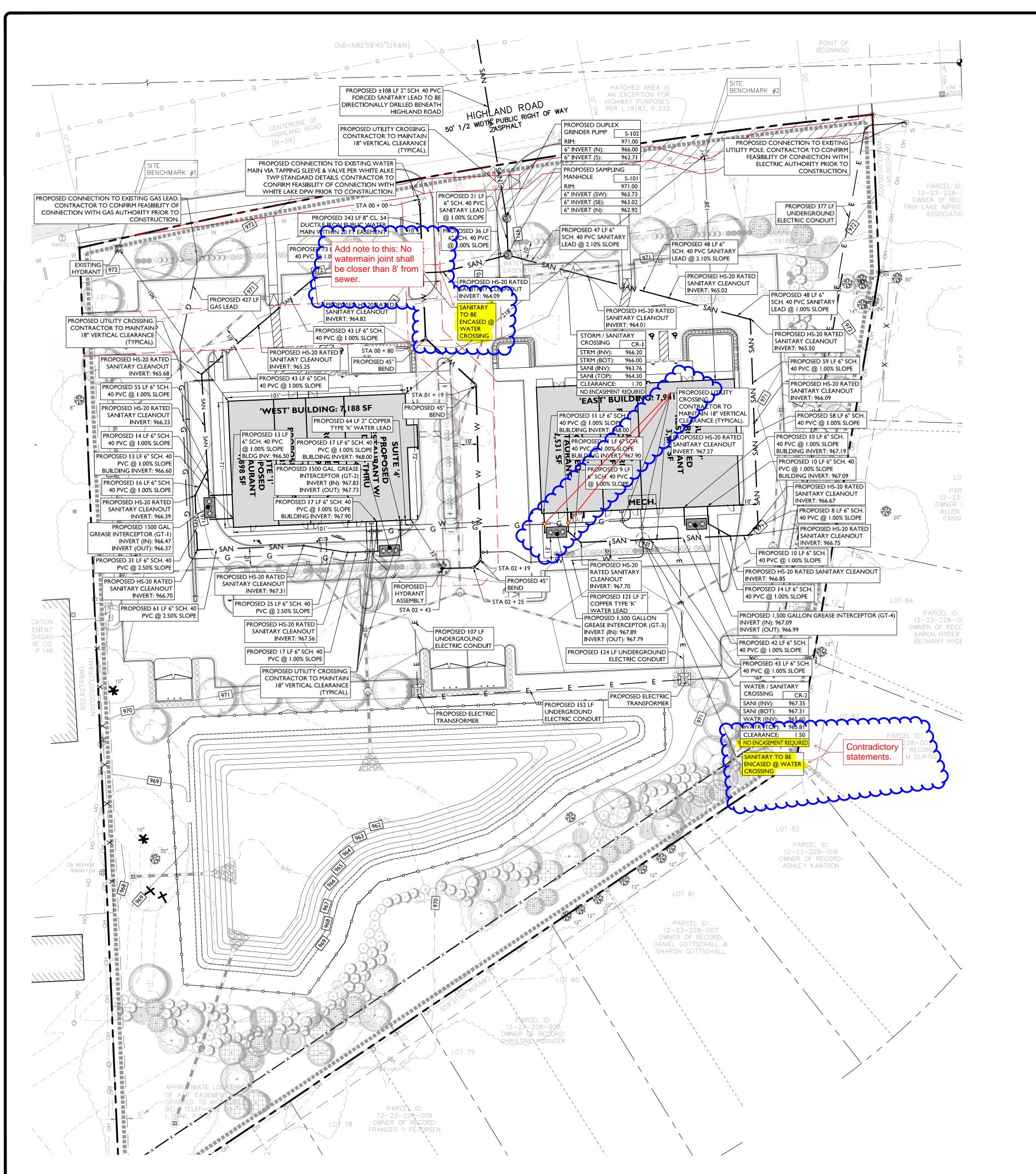
Sheet C-18-Construction Details-Red lined

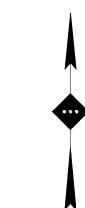
Sheet C-19-Utility & Stormwater Profiles-Red lined

Cc: Matteo Passalacqua, Carlisle Wortman, via email

Hannah Kennedy- Galley, Community Development, via email Aaron Potter, DPS Director, White Lake Township, via email Nick Spencer, Building Official, White Lake Township via email Jason Hanifen, Fire Marshall, White Lake Township, via email

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SYMBOL DESCRIPTION PROPERTY LINE PROPOSED SANITARY LATERAL PROPOSED DOMESTIC WATER SERVICE PROPOSED ELECTRIC CONDUITS PROPOSED GAS LINE PROPOSED VALVE PROPOSED CLEANOUT PROPOSED TRANSFORMER ON CONCRETE PAD WITH BOLLARDS

SEE SHEET C-19 FOR UTILITY PROFILES / UTILITY CROSSING INFORMATION.

CONTRACTOR TO PROVIDE MINIMUM 18" VERTICAL **CLEARANCE AT ALL UTILITY CROSSINGS.**

ALL SANITARY LEADS SHALL BE ENCASED AT WATER MAIN / LEAD CROSSINGS PER WHITE LAKE TOWNSHIP STANDARDS

COMPACTED BACKFILL SHALL BE PROVIDED FOR ALL SANITARY & WATER LEADS UNDER PAVED AREAS PER WHITE LAKE TOWNSHIP STANDARD DETAILS

MANHOLE SCHEDUL

NUM	TYPE	RIM (FT)	SIZE (IN)	DIR	INV ELEV (FT)	
70065	CATCH BASIN	971.68	12	N	968.03	
70131	CATCH BASIN	970.71	12	E	966.71	
70140	CATCH BASIN	970.70	12	W	966.50	
		970.70	12	N	966.45	
		970.70	12	S	966.55	
70157	CATCH BASIN	971.02	18	N	964.12	

BENCHMARK

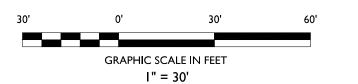
SITE BENCHMARK #I
ARROW ON HYDRANT, WEST SIDE OF ASPHALT ENTRANCE.

ELEVATION = 975.36' (NAVD 88)

SITE BENCHMARK #2
ARROW ON HYDRANT, S. SIDE OF HIGHLAND ROAD, EAST SIDE OF PROPERTY. ELEVATION = 974.20' (NAVD 88)

DRAINAGE AND UTILITY NOTES

- I. THE CONTRACTOR IS REQUIRED TO CALL THE APPROPRIATE AUTHORITY FOR NOTICE OF CONSTRUCTION/EXCAVATION AND UTILITY MARK OUT PRIOR TO THE START OF CONSTRUCTION IN ACCORDANCE WITH STATE LAW. CONTRACTOR IS REQUIRED TO CONFIRM THE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES IN THE FIELD. SHOULD A DISCREPANCY EXIST BETWEEN THE FIELD LOCATION OF A UTILITY AND THE LOCATION SHOWN ON THE PLAN SET OR SURVEY, THE CONTRACTOR SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. IMMEDIATELY IN WRITING.
- 2. THE CONTRACTOR IS RESPONSIBLE TO PROTECT AND MAINTAIN IN OPERATION ALL UTILITIES NOT DESIGNATED TO BE REMOVED.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO ANY EXISTING UTILITY IDENTIFIED TO REMAIN WITHIN THE LIMITS OF THE PROPOSED WORK DURING CONSTRUCTION. 4. A MINIMUM HORIZONTAL SEPARATION OF 10 FEET IS REQUIRED BETWEEN ANY SANITARY SEWER SERVICE AND ANY WATER LINES. IF
- THIS SEPARATION CANNOT BE PROVIDED, A CONCRETE ENCASEMENT SHALL BE UTILIZED FOR THE SANITARY SEWER SERVICE AS APPROVED BY STONEFIELD ENGINEERING & DESIGN, LLC. 5. ALL WATER LINES SHALL BE VERTICALLY SEPARATED ABOVE SANITARY SEWER LINES BY A MINIMUM DISTANCE OF 18 INCHES. IF THIS SEPARATION CANNOT BE PROVIDED, A CONCRETE ENCASEMENT SHALL BE UTILIZED FOR THE SANITARY SEWER SERVICE AS APPROVED
- BY STONEFIELD ENGINEERING & DESIGN, LLC. 6. THE CONTRACTOR TO PERFORM A TEST PIT PRIOR TO CONSTRUCTION (RECOMMEND 30 DAYS PRIOR) AT LOCATIONS OF EXISTING UTILITY CROSSINGS FOR WATER AND SANITARY SEWER CONNECTION IMPROVEMENTS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY STONEFIELD
- ENGINEERING & DESIGN, LLC. IN WRITING. 7. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING GAS, ELECTRIC AND TELECOMMUNICATION CONNECTIONS WITH THE
- APPROPRIATE GOVERNING AUTHORITY. 8. CONTRACTOR SHALL START CONSTRUCTION OF ANY GRAVITY SEWER AT THE LOWEST INVERT AND WORK UP-GRADIENT.
- THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN A RECORD SET OF PLANS REFLECTING THE LOCATION OF EXISTING UTILITIES THAT HAVE BEEN CAPPED, ABANDONED, OR RELOCATED BASED ON THE DEMOLITION/REMOVAL ACTIVITIES REQUIRED IN THIS PLAN SET. THIS DOCUMENT SHALL BE PROVIDED TO THE OWNER FOLLOWING
- COMPLETION OF WORK. 10. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN A RECORD OF THE AS-BUILT LOCATIONS OF ALL PROPOSED UNDERGROUND INFRASTRUCTURE. THE CONTRACTOR SHALL NOTE ANY DISCREPANCIES BETWEEN THE AS-BUILT LOCATIONS AND THE LOCATIONS DEPICTED WITHIN THE PLAN SET. THIS RECORD SHALL BE PROVIDED TO THE OWNER FOLLOWING COMPLETION OF WORK.



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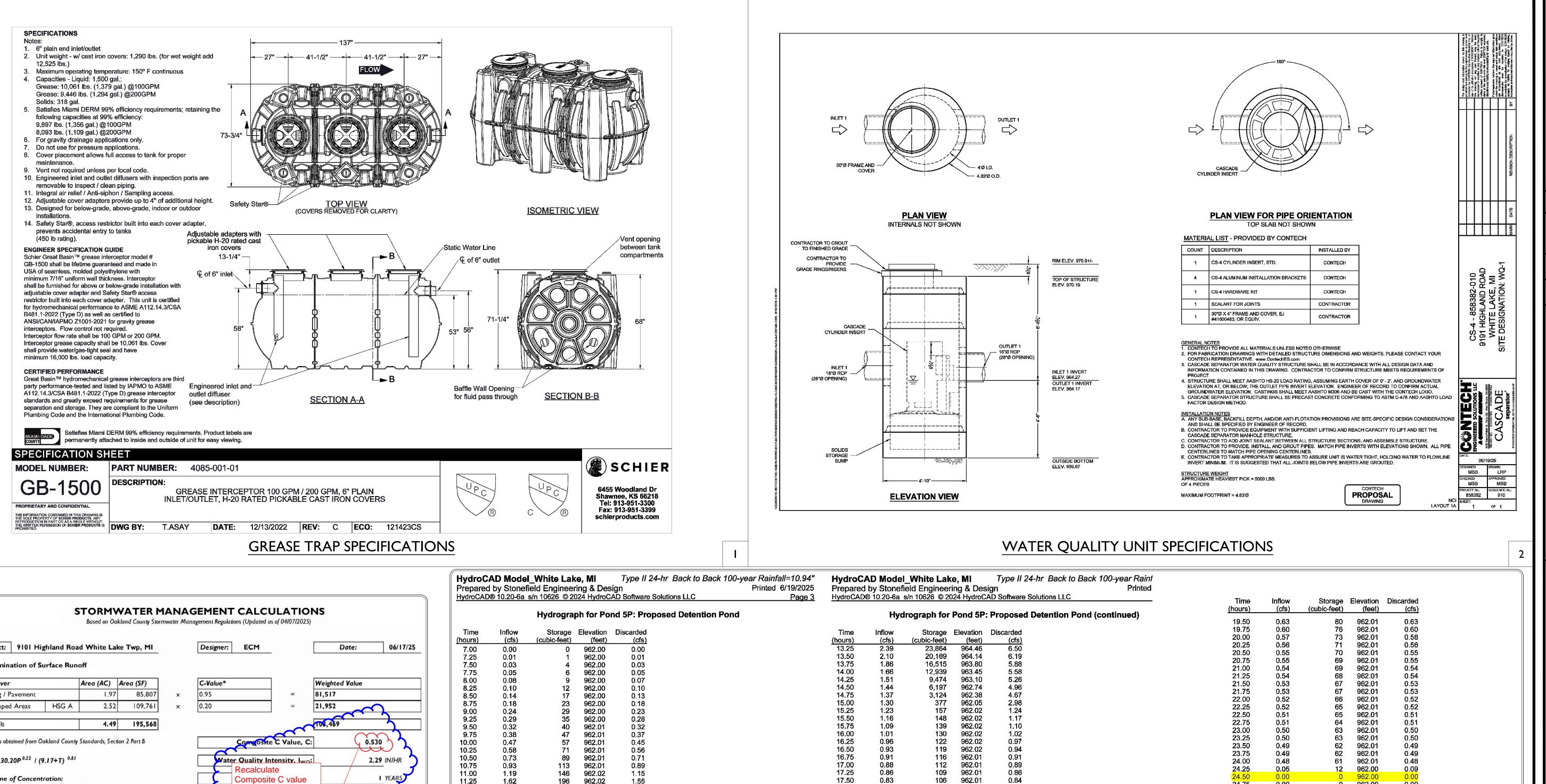


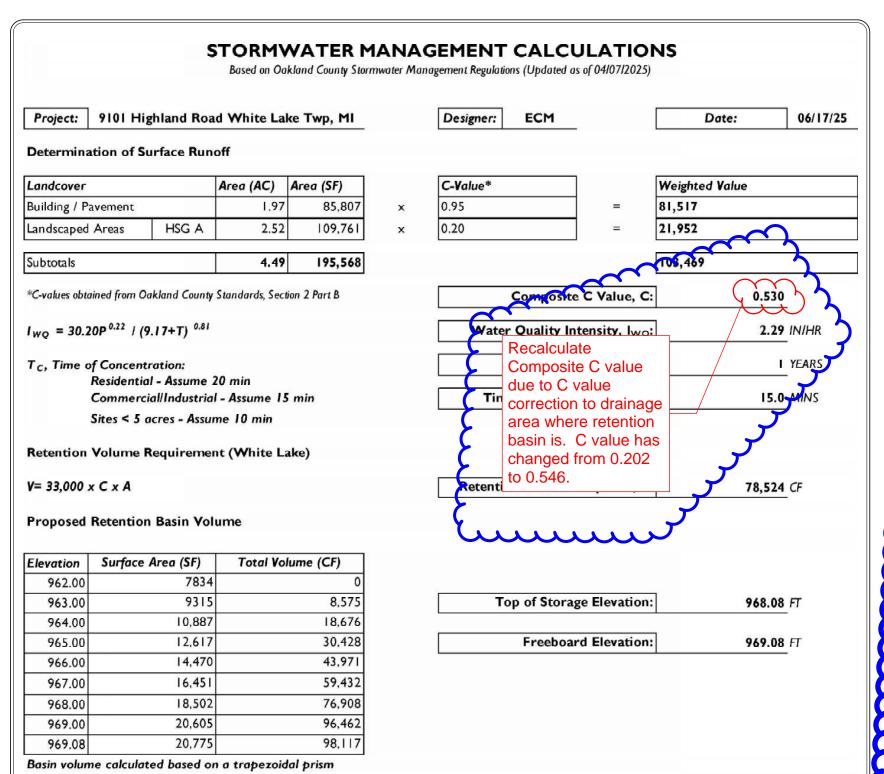


engineering & design I" = 30' PROJECT ID: DET-230229

UTILITY PLAN

DRAWING:





1.62

2.31

9.36

42.75

9.58

11.25

11.50

11.75

12.00

196

280

1,310

17,777 **34,602**

962.02

962.04

962.16

963.92

965.32

2.21

7.36

SYSTEM MOL	DELED USING HYDROCAD, BA	CK TO BACK 100-)	FAR STORMS (10	47" RAINFALL EV	ENT)		DE	WATERII	NG CAL	CULATIO	ONS			100	iabliabled C	values	
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		profiles She			S	TORMV	ATER SY	STEM DES	SIGN (10-	EAR STO	RM)				nown on Shee		
Line #	Line ID	Rim Elevation Downstream (FT)	Rim Elevation Upstream (FT)	Invert Downstream (FT)	Invert Upstream (FT)	Pipe Size (IN)	Pipe Length (FT)	Pipe Slope (%)	Flow Rate (CFS)	Pipe Capacity (CFS)	Velocity Downstream (ft/s)	HGL Downstream (FT)	HGL Upstream (FT)	Drainage Area (AC)	Runoff Coefficient	Time of Concentration (MIN)	Rainfall Intensity (IN/HR)
1	EW-I TO WQ-I	964.00	970.90	964.02	964.17	18	30	0.50	6.65	7.42	3.76	965.52	965.63	0.00	0.00	20.30	3.90
2	WQ-I TO D-101	970.90	969.30	964.27	964.44	18	40	0.42	6.68	6.85	3.90	965.66	965.80	0.31	0.86	20.10	3.90
3	D-101 TO D-102	969.30	970.50	964.54	964.80	12	50	0.52	2.26	2.57	2.87	966.10	966.30	0.24	0.91	18.10	3.90
4	D-102 TO D-103	970.50	969.70	964.90	965.43	12	106	0.50	1.53	2.52	1.95	966.46	966.65	0.18	0.67	17.10	3.90
5	D-103 TO D-104	969.70	969.70	965.53	965.96	12	86	0.50	1.12	2.52	1.43	966.74	966.82	0.25	0.68	16.20	3.90
6	D-104 TO D-105	969.70	970.75	966.06	966.61	12	110	0.50	0.51	2.52	0.75	966.86	966.97	0.20	0.65	15.00	3.90
7	D-101 TO D-201	969.30	971.10	964.54	964.85	15	63	0.49	3.70	4.53	3.02	966.10	966.30	0.00	0.00	19.70	3.90
8	D-201 TO D-202	971.10	970.40	964.95	965.30	12	71	0.49	2.21	2.50	2.81	966.44	966.71	0.13	0.83	16.80	3.90
9	D-202 TO D-203	970.40	969.70	965.40	965.89	12	98	0.50	1.85	2.52	2.36	966.77	967.04	0.38	0.69	16.10	3.90
10	D-203 TO D-204	969.70	970.40	965.99	966.45	12	93	0.49	0.90	2.50	1.14	967.16	967.21	0.48	0.48	15.00	3.90
Ш	D-201 TO D-301	971.10	969.60	965.05	965.54	12	99	0.49	1.72	2.5	2.19	966.44	966.67	0.55	0.77	18.90	3.90
12	D-301 TO D-302	969.60	971.00	965.64	966.10	12	91	0.51	0.29	2.53	0.36	966.77	966.78	0.00	0.00	15.80	3.90
13	D-302 TO D-303	971.00	970.40	966.20	966.59	12	79	0.49	0.29	2.50	0.62	966.78	966.86	0.18	0.42	15.00	3.90
14	EW-2 TO D-501	964.83	968.08	964.75	965.80	12	105	1.00	0.24	3.56	0.31	965.75	966.00 j	0.31	0.20	15.00	3.90
15	EW-3 TO D-601	965.45	968.08	965.38	965.80	12	42	1.00	0.14	3.56	0.18	966.38	966.38	0.18	0.20	15.00	3.90

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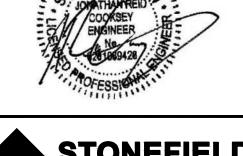
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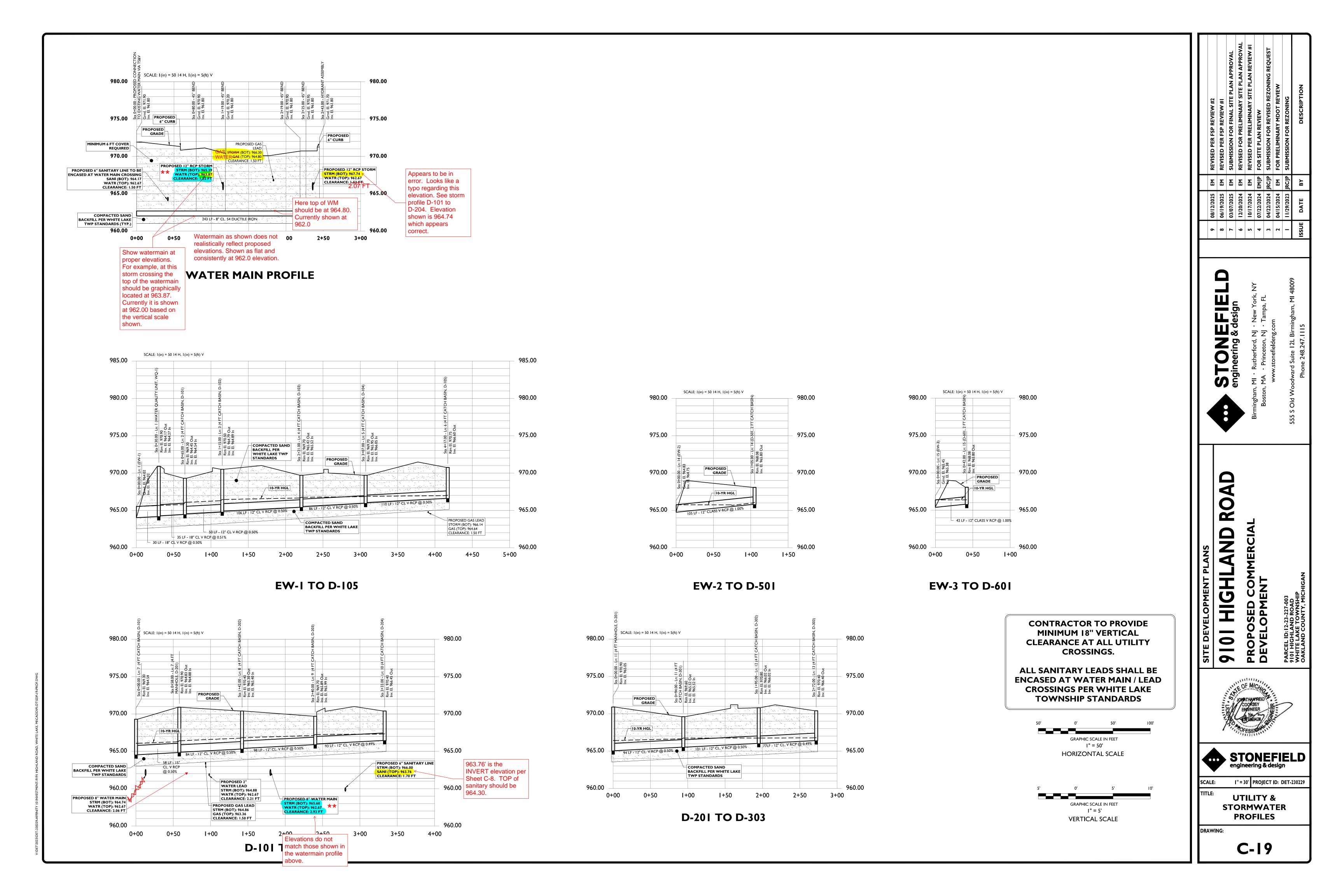
CONSTRUCTION

DETAILS

DRAWING:

C-18

STORMWATER CALCULATIONS





117 NORTH FIRST STREET SUITE 70 ANN ARBOR, MI 48104 734.662.2200 734.662.1935 FAX

August 27, 2025

Final Site Plan / Special Land Use Review for White Lake Charter Township, Michigan

Applicant:	Affinity 10 Investment, LLC
Project Name:	9101 Highland Road
Plan Date:	March 7, 2025
Revised Date:	June 19, 2025
Second Revision:	August 8, 2025
Location:	South side of Highland Road (M-59), West of Sunny Beach Boulevard. Parcel ID: 12-23-227-003
Action Requested:	Final Site Plan / Amend Special Lane Use

PROJECT NARRATIVE

The applicant is requesting to construct two (2) multi-tenant retail and restaurant buildings on a 4.5-acre parcel along Highland Road (M-59). The site was recently rezoned from R1-C, Single Family Residential to RB, Restricted Business. The special land use and preliminary site plan were reviewed by the Planning Commission during the December 5th, 2024, regular meeting. Several nearby residents voiced concerns regarding the proposal citing apprehensions about traffic generated from the dual drive thrus and general noise production. The applicant was amenable to working with the Township on hours of operation for tenants as well as site lighting being turned off within an hour of tenants closing for business.

The Planning Commission voiced concerns with traffic generated by the drive thrus as well as site layout and circulation. After discussion, the following motions were made:

MOTION by Commissioner, seconded by Commissioner Meagher, to approve the special land use for 9101 Highland, identified as parcel number 12-23-227-003, accepting all the concessions made by the applicant concerning lighting, sidewalk, hours of operations, idling trucks, and the sewer stub and all comments from staff and consultants, including the two outdoor seating areas and the drive through and pick up windows. The motion failed with a voice vote: (5 no votes).

MOTION by Commissioner Carlock, seconded by Commissioner Seward, to approve the special land

Final Site Plan and Special Land Use Review (Second Revision) August 27, 2025

use for 9101 Highland, identified as parcel number 12-23-227-003, accepting all the concessions made by the applicant concerning lighting, sidewalk, hours of operations, idling trucks, and the sewer stub and all comments from staff and consultants, including the two outdoor seating areas and one drive-thru. The motion carried with a roll call vote: (8 yes votes).

MOTION by Commissioner Meagher, seconded by Commissioner Seeley to recommend the Township Board approve the preliminary site plan for 9101 Highland, identified as parcel number 12-23-227-003 subject to the specifications outlined in the special land use approval. The motion failed with a roll call vote: (5 no votes).

Via the motions, the Planning Commission conditionally approved the special land use but denied the preliminary site plan. Per these actions, the applicant was given an opportunity to revise the site plan to better meet the criteria of the special land use and modify site layout and specifications to address the community and commission concerns.

During the January 16th, 2025 regular meeting, the Planning Commission granted conditional approval to the preliminary site plan. The Township Board granted preliminary site plan approval at their January 21st, 2025 regular meeting.

Both structures will retain outdoor patios, however the drive thru pickup window on the east building has been removed. Restaurants with drive thru's and outdoor dining areas are a special land use and subject to the standards set forth in Sections 4.17, 4.18 and 6.10 of the zoning ordinance. Since preliminary site plan approval, the applicant has increased the outdoor patio size and count. Per these changes, an amended special land use permit is required. The Planning Commission shall consider the amendment special land use at a public hearing.

The proposed retail buildings were modified in size and tenant count. The west building has been modified from seven thousand ninety four (7,094) sqft to seven thousand one hundred eighty eight (7,188) sqft and setup to accommodate four tenants instead of the originally proposed three (3). The east building has been modified from seven thousand eight hundred sixty five (7,865) to seven thousand nine hundred forty one (7,941) sqft and setup to accommodate three (3) tenants instead of the originally proposed four (4).

The site currently contains one principal building and one accessory structure as well as a parking lot and fenced side yard. The principal structure is the Calvary Lutheran Church of White Lake. The current plan calls for the razing of all existing structures and improvements to accommodate the new use and proposed buildings. Most existing utilities as well as some periphery trees are to remain and be protected during construction.

Notable changes from preliminary approval have been:

- Slight modification of landscaping layout and counts.
- East and West building patio modifications in location, size and count.
- East and West building modification in size and tenant count.
- Additional mobile order parking space.
- Removal of one standard parking space.

Preliminary site plans are reviewed by the Planning Commission with recommendations then provided to the Township Board for approval, approval with conditions or denial. Final site plan review and approval

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is conducted solely by the Planning Commission. The Planning Commission is the review and approval authority for special land uses.

Items to be Address: The modification of the outdoor seating patio special land use count and size require a public hearing for Planning Commission review.

SITE DESCRIPTION

Lot Area:	4.5 gross acres
Frontage:	Approx. 458 feet along Highland Road (M-59).
Address:	9101 Highland Road
Current Use:	Institutional (Place of Worship)

Aerial image of the site



Source: NearMap June 8, 2024

	North	East	South	West
Surrounding Zoning	PD, Planned Business	R1-C, Single Family Residential	R1-C, Single Family Residential	LB, Local Business
Surrounding Land Uses	Big Box Retail	Single Family Homes	Single Family Homes	Child Daycare
Future Land-Use Map	Commercial Corridor	Neighborhood Residential	Neighborhood Residential	Commercial Corridor

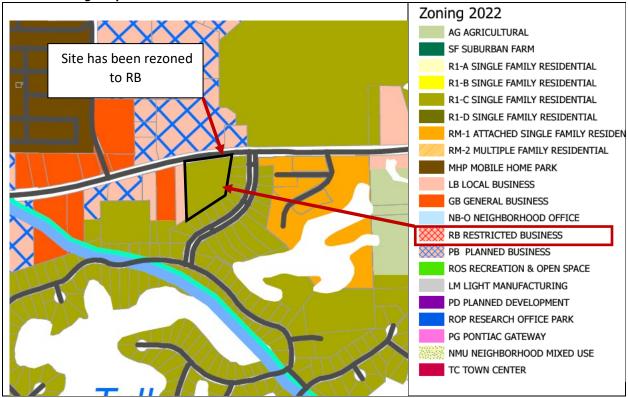
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Current Zoning

RB, Restricted Business

The intent of the Restricted Business District is to provide a uniform set of regulations that will provide for and encourage retail and office development in accordance with the unique character of White Lake Township, with emphasis on preservation and enhancement of landscaping and natural areas. The Restricted Business District should contain diverse types of retail and office business, but it is not intended that the district become an intensive, high-volume commercial strip.

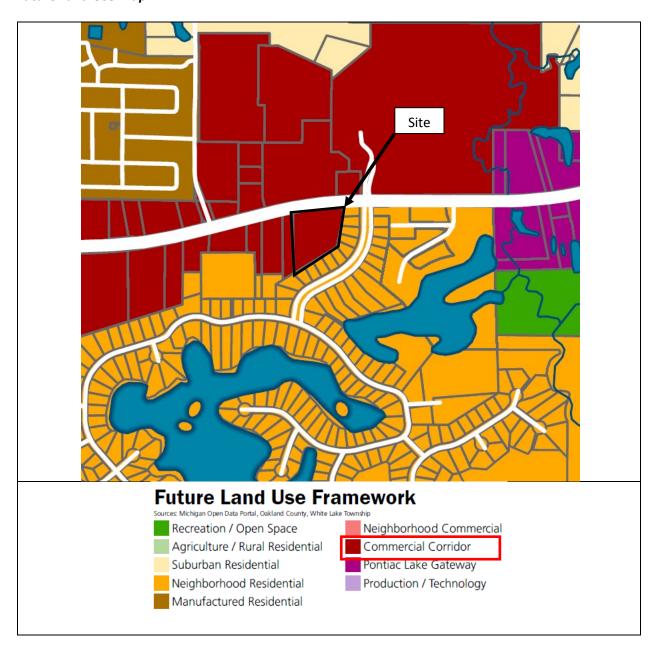
Current Zoning Map



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Future Land Use	Commercial Corridor						
	Commercial Corridor: Provides regional goods and services to residents and non-						
	residents. Includes large box stores and drive thrus.						

Future Land Use Map



Item to be Addressed: None

NATURAL RESOURCES

Topography: Sheet C-4 show existing site topography as well as the proposed grading. With the

exception of a natural depression along Highland Road (M-59) on the east side of the site, the lot is predominantly flat. Minor grading will be required to support proposed structures and site improvements with more extensive excavation required for the

proposed detention pond south of the development.

We defer to Township Engineering for any concerns with the proposed grading plans as well as any issues cited regarding stormwater management and natural

environment protection.

Wetlands: Per the Department of Environment, Great Lakes and Energy (EGLE), no wetlands are

present onsite.

Woodland: The site is relatively clear of mature tree clusters. Individual mature trees are located

along the periphery. It appears that approximately fifteen (15) of these trees are

slated to be preserved and protected during construction.

Soils: Oshtemo, Boyer, Urban Land and Spinks soils are all present onsite and suitable for

development.

Water: No waterbodies are present onsite.

General Notes: None.

Items to be Addressed: Any concerns cited by Township Engineering.

AREA, WIDTH, HEIGHT, SETBACKS

Proposed building envelopes and setback standards are shown on Sheet C-3 as well as district bulk and lot regulations. Standard bulk and lot regulations for the RB zoning district are set forth in Section 3.1.14.

RB Restricted Business District Developmental Standards

RB , Restricted Business	Required:	Proposed:	Complies
Building Setbacks			
Front (Sec. 4.17.A)	60 foot minimum	103.8 feet	Yes
Side	15 feet on one side / 30 foot total of two sides	81 feet to the west / 56 feet to the east / 137 feet combined	Yes
Rear	20 feet	149.1 feet	Yes
Wetland	25 feet	N/A	N/A

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Building Height			
	35 feet or 2 stories (whichever is less)	20 feet / 1 story	Yes
Lot Standards			
Minimum Lot Area	1 acre	4.5 gross and net acres	Yes
Minimum Lot Width	120 feet	458.4 feet	Yes
Maximum Lot Coverage	TBD	6.75%	TBD
Depth to Width	4 to 1	Approx. 1 to 1	Yes

Items to be Addressed: None.

ACCESS & CIRCULATION

Vehicle Access & Circulation

Section 6.4 outlines site access requirements. The site's sole access is from Highland Road (M-59) which is under jurisdiction of the Michigan Department of Transportation (MDOT). The response letter from Stonefield dated August 12, 2025 states plans were resubmitted to MDOT for final approval August 12, 2025.

Sheet C-3 shows a proposed stub access drive at the west end of the property. A note indicates the drive is a proposed twenty four (24) foot access drive and easement to be stubbed at the property line. Also included in the final site plan application is an exhibit showing the location and dimensions of the proposed access easement.

The aerial image on the next page shows the neighboring site to the west does not currently have a stub to the subject property. The neighboring property does share an internal drive with the adjacent property to the west. The applicant indicates the stub road will be connected to the neighboring site when that site is redeveloped. Concrete parking blocks are shown to detour vehicles from entering the temporary stub.

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Source: NearMap June 8, 2024

Page 8 of the traffic impact study (TIS) dated May 3, 2025 indicates the site's proposed driveway distance from existing driveways and/or intersections. The only distance requirement that is met via MDOT standards relates to the Ross Drive entrance way to the shopping center opposite Highland Road (M-59). We defer to Engineering on their assessment of this deficiency but note the applicant has incorporated a dedicated left hand turn egress lane and deceleration lane to the site plan per MDOT requirements. The TIS also recommends optimizing the PM peak hour signal timing at Highland Road (M-59) and Fisk Road.

Sheet C-12 provides circulation information for fire trucks. We defer to Township Public Safety on concerns with emergency vehicle maneuverability.

Non-Motorized Access and Circulation

Sections 5.20 and 5.21 provide requirements for site sidewalks and pathways. A sidewalk is present across the Highland Road (M-59) frontage of the site. The applicant is proposing to demolish the sidewalk and install an eight (8) foot wide asphalt pathway mostly outside of the ROW. Pathways along the corridor are required to be eight (8) feet wide with two (2) foot clear zones on each side and at least six (6) feet from the curb of the adjacent road. Dimensions on Sheet C-3 indicate the pathway will be no closer than eight (8) feet to Highland Road (M-59) which is complaint.

A draft easement has been provided for the portion of the pathway that occupies the applicant's property. Pedestrian access from the proposed pathway to the site is provided via a walkway in front of the east and west building. Both crosswalks extend across the drive aisle to connect with the west and east building.

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Public Transit

Public Transit access is available via the SMART Bus Highland Road Route 759. The line runs east/west between Oakland University and Bogie Lake Road along Highland Road (M-59). The accessible Westbound stop is located at the Highland Road (M-59) and Sunny Beach Boulevard intersection. The accessible eastbound stop is located along Highland Road (M-59) at the White Lake Marketplace development. The route operates from approximately 6:00am until 11:00pm on weekdays and 9:00am until 6:00pm on Saturdays.

White Lake Township is also served by the Western Oakland Transportation Authority which provides schedule transportation for Township residents with specific needs.

Items to be Addressed: 1.) Any concerns cited by Public Safety 2.) Any concerns cited by Engineering. 3.) MDOT will need to approve the pathway along Highland Road (M-59) and site access.

PARKING & LOADING

Section 5.11 outlines requirements for off-street parking. Sheet C-3 provides parking locations and calculations for the various retail and restaurant functions anticipated for the site. Parking is placed predominantly around the periphery of the two buildings with a limited number of spaces located between the structures. Parking lot and drive aisles will be constructed of asphalt. Concrete is proposed for limited portions of the drive thru and dumpster pads.

Only the west building offers drive thru facilities which wrap around the entire building. The stacking lane has two bailout drives. A loading zone is located behind the west building at the end of the central drive aisle. One loading zone is provided and meets the dimensional requirements of the ordinance. Refuse and Delivery truck circulation is provided on Sheet C-13. Two pedestrian crosswalks are shown with dashed markings to allow delivery personnel to access the rear of each building.

The site plan indicates there will be seven (7) total tenants between both buildings. Of the seven (7), two (2) are identified as retail totaling four thousand eight hundred six (4,806) sqft. The remaining five (5) are identified as restaurants (one with drive thru amenities). Total restaurant square footage is ten thousand three hundred thirty eight (10,338). Based on these uses, one hundred thirty six (136) parking spaces are required.

Parking has been reconfigured to allow for larger proposed patio areas in front of both buildings. One additional mobile order pickup space has been added and one standard space has been removed since preliminary approval. The site layout indicates one hundred twenty one (121) spaces are provided. The Off-Street Parking Requirements table on Sheet C-3, as well as the landscape plan on Sheet C-10, state one hundred nineteen (119) parking spaces are provided. The math computing the total required parking in the "Off-Street Parking Requirements" table states one hundred forty six (146) spaces are required. These errors do not affect compliance with parking requirements, however the correct amount of provided parking should be reflected in all calculations and site layouts.

All spaces and dimensions for stacking lanes meet ordinance requirements.

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Included in the parking are six (6) handicap accessible spaces. Count and dimension requirements for accessible spaces, as well as van accessibility space requirements, have been met.

We note that the site plan does not show dual white striped parking space paint however details on Sheet C-15 specify dual striped paint.

Items to be Addressed: The correct amount of parking should be reflected in all calculations, tables and site layouts

ESSENTIAL SERVICES & UTILITIES

Sheet C-5 and C-8 provide information on existing and proposed utilities. Stormwater management is proposed to be directed into a ground infiltration detention pond. Gas, water, sewer and electric services are proposed underground. We defer to Township Engineering for any concerns with utility layouts and calculations.

We note underground electric routes along the eastern property line conflict with proposed landscaping. Over time, large tree roots can cause problems for underground utilities.

Fire lane locations are shown on Sheet C-12. We defer to Township Public Safety for any utility capacity or locations concerns.

Items to be Addressed: 1.) Any cited concerns of Township Engineering. 2.) Any cited concerns of Township Public Safety.

LANDSCAPING & SCREENING

The applicant provided full landscaping specifications during the preliminary site plan review. With the exception of items relating to dimensional and screening information, the plan was complaint with ordinance standards. Between preliminary and final, the landscaping layout and material count has been modified per Sheet C-10. Changes to the landscape plan include:

- Plant layout along M-59 is more uniform.
- Tree count between the trash enclosures has been increased.
- Landscaping behind the east building has been relocated.
- Landscaping around the west building drive thru has been increased.
- Landscaping along the lot lines abutting residential has slightly increased.

Section 5.19.B outlines general provisions for site landscaping. We note that no trees are to be planted closer than four (4) feet from any property line. Three (3) existing trees are within this setback however their presence aids in the screening intent of the ordinance.

Section 5.19.D provides requirements for screening along property lines as it relates to adjacent districts. Those standards are reviewed below:

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Greenbelts

Property Line	Required	Provided	Complaint
North (ROW)	Depth: 20 feet	Depth: 25.4 feet	Yes
	14 large deciduous or evergreen trees	14 large deciduous trees	
	AND	AND	
	107 shrubs	107 shrubs	
East & South (R1-C)	Depth: 20 feet	Depth: 30 feet	Yes
	56 large deciduous or evergreen trees	56 large deciduous trees (49 new / 7 existing)	
	AND	AND	
	223 shrubs	223 shrubs	
	5 foot visual barrier	8 foot obscuring fence	
West (LB)	None	N/A	N/A

Several areas along the perimeter of the site show existing tree canopies and cite that they will remain. An aerial of the site is provided below for reference.



Source: NearMap June 8, 2024

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Interior Landscaping

Interior landscaping areas are required to equal at least fifteen (15) percent of the total lot area. One (1) large deciduous, small ornamental deciduous, or evergreen tree and five (5) shrubs shall be planted for every three hundred (300) square feet of required interior landscaping area.

Standard	Required	Provided	Complaint
Lot Area	29,335 sqft (15%)	105,080 sqft (54%)	Yes
Deciduous Trees	97 trees	97 trees (83 new / 14 existing)	Yes
Shrubs	489 shrubs	489 shrubs	Yes

Parking Lot Landscaping

Any off-street parking areas containing ten (10) or more parking spaces shall have parking lot landscaping as prescribed in the table provided in Section 5.19.G. Additional standards require:

- 1. One (1) large deciduous tree or small deciduous ornamental tree and three (3) shrubs for every one hundred (100) square feet of required parking lot landscaping area.
- 2. Parking lot landscaping areas shall be curbed with 6-inch concrete curbing. Planting islands containing trees shall not be less than fifty (50) square feet in area and not have any dimension across the island of less than five (5) feet.

Commercial Use	Required	Provided	Complaint
Lot Area	2,420 sqft	4,879 sqft	Yes
Deciduous or	24 trees	24 trees	Yes
Ornamental Trees			
Shrubs	72 shrubs	72 shrubs	Yes
Curbs	6 inch concrete	2'	Yes
Lot Islands	50 sqft area minimum	4 Islands	Yes
	and at least 5 feet wide		

While compliant, the landscaping and buffer requirement table on Sheet C-10 should be corrected to account for the correct parking space count. A note in the Stonefield response letter dated June 20, 2025 indicates the original parking lot landscaping area calculations were incorrect. Revised square footages are provided and compliant.

Minimum Plant Size

All tree and plant material meet size requirements.

Trash Receptacles

Trash enclosures are to be constructed of similar materials as the principal structure on the site. Brickform

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concrete or stained, decorative CMU block may be permitted where the principal building is not masonry, however, plain CMU block is not allowed. Sheet A-302 provides enclosure details that reference enclosure walls as CMU with brick veneer and wood stained gates with a metal frame.

Mechanical Equipment Screening

Sheets A-300 and A-301 provide elevations showing the rooftop mechanical equipment and the parapet dimensions which provide screening. Other onsite mechanical equipment is screened via landscaping.

Fencing

Sheet C-3 shows a six (6) foot high vinyl fence around the detention basin. Per landscaping buffer requirements between specific zones, an eight (8) foot obscuring fence is proposed parallel to the eastern and southern lot lines where the property abuts residential districts. The fence is located 20 feet in from the site's property line. Sheet A-302 shows the fence will be an eight (8) foot tall white vinyl fence.

Items to be Addressed: None.

LIGHTING & NOISE

Lighting Requirements

The applicant has provided site lighting information on Sheets C-9 and C-17. Lighting standards are provided in Section 5.18.G and required at final site plan review.

Given the site will have multiple tenants, Sheet C-9 contains a note stating that there shall be no flashing, oscillating, moving or intermittent type of lighting or illumination on the site.

All site lighting is provided via LED fixtures mounted to twenty (20) foot poles. Footcandle requirements at the property lines and fixture height requirements are met. No building wall pack lighting is proposed at this time. Section 5.18.G.viii outlines footcandle maximums for specific areas of the site. The site plan offers footcandle measurements for the overall site and property lines as well as driveway, parking, walkways, and loading areas. All areas are below or at maximum footcandle allowances.

Noise Requirements

Noise standards are provided in Section 5.18.A and required at final site plan review. No noise information was provided. Normal operations of the site are not anticipated to generate noise beyond permitted levels. The applicant will be required to ensure tenants are aware of standards which will include the use of outdoor patio space and drive thru speakers.

Items to be Addressed: None

SIGNAGE

Sheets C-3 and SP-100 provide the basic location and construction materials of a proposed monument sign at the development's entrance. Basic dimension parameters are provided in the "Signage

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Requirements" table. We note the sign complements both the design and construction materials of the principal structures on-site. Signs are approved administratively but complete sign information outlined in Section 5.9 is required at final site plan review.

Items to be Addressed: None.

ARCHITECTURE & LAYOUT

Sheets A100 through A301 provide general floorplans and elevations of the buildings.

Architectural information required at final site plan review includes the types of facing materials to be used on structures. Interior layouts are open to allow flexibility for potential user interior design but will be required to meet building codes during the permitting process.

Section 6.8.E provides architectural requirements for developments along the Highland Road (M-59) corridor. Proposed exterior materials for the buildings are fiber cement planes, metal coping, EFIS, brick veneer, prefinished aluminum and metal awnings. Window coverage along front facades must be at least 30%. The west building provides 33% window coverage and the east building provides 40% window coverage.

Exterior construction material boards will be required for Planning Commission review during final site plan as well as samples of furniture, fixtures or equipment to be located on the proposed patios.

Sheet A-101 does not reflect the modified patio layout for the east building and should be updated.

Items to be Addressed: 1.) Color renderings and sample boards are required for Planning Commission review. 2.) Sheet 101 should be updated to reflect revised east building patio layout.

SPECIAL LAND USE

Restaurants with drive-thru's and outdoor dining areas are a special land use and subject to the standards set forth in Sections 4.17, 4.18 and 6.10 of the zoning ordinance. Special land uses are reviewed and approved/denied by the Planning Commission.

General and special use requirements are provided in Section 6.10. Use standards specific to drive-in or drive-thru window services are outlined in Section 4.17. Use standards for eating establishments with outdoor dining are provided in Section 4.18. The following information is a review of each requirement for this use as prescribed in the Zoning Ordinance.

Section 4.17 / Drive-In or Drive-Thru Window Services

A. A front yard setback of at least sixty (60) feet shall be required.

CWA Comment: Standard met.

B. Entrance and exit drives shall be at least one hundred (100) feet from any street intersection and two hundred (200) feet from any residential district.

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CWA Comment: Standard met.

C. An outdoor lighting plan shall specify the type of fixtures to be used, light intensity, and method of shielding the fixtures so that light does not project onto adjoining properties or on any public or private street or right-of-way. Dropped fixtures shall not be allowed. The site plan shall include a photometric plan and catalog details for all proposed fixtures. Outdoor lights must meet the performance standards of Section 5.18.

CWA Comment: Standard met. A note on Sheet C-3 indicates site lighting shall be turned off within one hour of close of business.

D. An obscuring fence, screen wall, or land form buffer shall be provided in accordance with the provisions of Section 5.19 on all sides abutting a residential district.

CWA Comment: Standard met.

E. Adequate off-street waiting space shall be provided to prevent drive-through customers from waiting on a public or private street. A minimum of four (4) spaces per drive-up window, including order windows or per ATM machine, shall be required. The Planning Commission may increase this requirement up to seven (7) spaces per window based on the circumstances of individual uses and sites.

CWA Comment: Standard met.

Section 4.18 / Eating Establishments with Entertainment and/or Outdoor Dining

These requirements are intended to regulate restaurants with large outdoor eating areas and possible entertainment. The applicant has stated no outdoor entertainment is to occur onsite for restaurant patrons. For this reason, we have only applied the standards applicable to casual outdoor eating within the patio areas specified for each building.

One patio each was proposed for both buildings in the preliminary site plan. The east building patio was three hundred fifteen (315) sqft and the west building patio was four hundred thirty (430) sqft. The final site plan shows that the east building now has two (2) patios at each end of the front parking area. The patio to the east end of the east building is proposed to be five hundred (500) square feet. The patio on the west end of the east building is proposed to be two hundred sixty (260) square feet. The west building patio has been reduced in size from four hundred thirty (430) square feet to three hundred fifteen (315) square feet. This is a net increase of approximately four hundred forty five (445) square feet of patio space and an increase from two (2) outdoor dining areas to three (3) outdoor dining areas. This is a deviation from what was approved in the original special land use permit and will require a new public hearing and approval from the Planning Commission

i. The establishment may operate only during the following hours: Monday thru Thursday 8 am—12 midnight, Friday 8 am—2 am, Saturday 10 am—2 am, Sunday 10 am—10 pm.

CWA Comment: The applicant has provided a list of anticipated tenants for the site as well as their possible hours of operation. Some operating times are beyond the window

Final Site Plan and Special Land Use Review (Second Revision) August 27, 2025

permitted for outdoor dining however we do not anticipate the patrons of these potential tenants utilizing outdoor patios to a disruptive degree. The Planning Commission approved the preliminary site plan with these prospective tenant hours in mind.

ii. The use of exterior loudspeakers is prohibited where the site abuts a residential district or use. The noise level at the lot line shall not exceed 70 dB.

CWA Comment: No noise or speaker systems were included in the site plan. The applicant should be aware of this requirement when considering tenant types. The community impact statement indicates that the east building shall not include a drive thru, pick-up window, menu board, or speaker box. The west building is the only building with drive thru facilities. The CIS states that per the use of landscaping and screening, noise generated form the site should be greatly reduced at property lines shared with residences.

Section 6.10 / General SLU Standards

i. The proposed special land use shall be of such location, size and character that it will be in harmony with the appropriate and orderly development of the surrounding neighborhood and/or vicinity and applicable regulations of the zoning district in which it is to be located.

CWA Comment: The proposed use of the site is conducive with that found along the corridor and other major thoroughfares.

ii. The proposed use shall be of a nature that will make vehicular and pedestrian traffic no more hazardous than is normal for the district involved, taking into consideration vehicular turning movements in relation to routes of traffic flow, proximity and relation to intersections, adequacy of sight distances, location and access of off-street parking and provisions for pedestrian traffic, with particular attention to minimizing child-vehicle interfacing.

CWA Comment: Site access approval will be required from MDOT however the applicant has implemented a deceleration lane, dedicated left turn lanes, new roadside pathway and internal pedestrian paths to improve vehicle and pedestrian circulation.

iii. The proposed use shall be designed as to the location, size, intensity, site layout and periods of operation of any such proposed use to eliminate any possible nuisance emanating therefrom which might be noxious to the occupants of any other nearby permitted uses, whether by reason of dust, noise, fumes, vibration, smoke or lights.

CWA Comment: Per comments provided in the Special Land Use 4.18 requirements portion of this review, the Planning Commission will need to approve of the enlarged patio area and count and the applicant should ensure tenants are aware of noise requirements. The applicant has eliminated the drive thru for the east building in response to nuisance concerns cited by the Planning Commission and community.

iv. The proposed use shall be such that the proposed location and height of buildings or structures and location, nature and height of walls, fences and landscaping will not interfere with or

Final Site Plan and Special Land Use Review (Second Revision) August 27, 2025

discourage the appropriate development and use of adjacent land and buildings or unreasonably affect their value.

CWA Comment: Standard met.

v. The proposed use shall relate harmoniously with the physical and economic aspects of adjacent land uses as regards prevailing shopping habits, convenience of access by prospective patrons, continuity of development, and need for particular services and facilities in specific areas of the Township.

CWA Comment: The proposed food service and retail uses are conducive to major thoroughfares and are similar or complementary to other commercial uses in the area.

vi. The standards of density and required open spaces for the proposed special land use shall be at least equal to those required by this Ordinance in the Zoning District in which the proposed special land use is to be located.

CWA Comment: Standard met.

vii. The public services and facilities affected by a proposed special land use or activity shall be capable of accommodating increased service and facility loads caused by the land use or activity.

CWA Comment: We defer to Township Engineering and Township Public Safety relating to public facilities and service concerns.

viii. Protection of the natural environment and conservation of natural resources and energy.

CWA Comment: No items of concern.

ix. The proposed use is necessary for the public convenience at the proposed location.

CWA Comment: The proposed use of the site is conducive with that found along the corridor and other major thoroughfares and will provide services to Township residents.

x. The proposed use is so designed, located, planned and to be operated that the public health, safety and welfare will be protected.

CWA Comment: No items of concern.

xi. The proposed use shall not cause substantial injury to the value of other property in the neighborhood in which it is to be located and will not be detrimental to existing and/or other permitted land uses in the zoning district.

CWA Comment: The proposed use is more intense than the current institutional use but not uncommon to major thoroughfares and/or proximity to residential uses. Appropriate landscaping and screening requirements have been met to ensure a buffer between the development and adjacent residential uses. Drive thru facilities have been reduced from two (2) to one (1) to accommodate concerns of the community.

Final Site Plan and Special Land Use Review (Second Revision) August 27, 2025

Community Impact Statement

Section 3.1.14 and 6.6 of the zoning ordinance outline the need for a Community Impact Statement (CIS) for special land uses, planned developments and the like. Given the proposed use is an increase in intensity from the current use as well as the adjacency to residential districts, the applicant has provided a CIS for the proposed development dated February 27, 2025.

Most information provided in the CIS is still relevant to the revised plan however building and suite square footage as well as tenant count have not been updated to reflect the current site plan. The CIS also has a dated traffic study attached.

General

The CIS provides relevant information about the development regarding site layout, uses, and general hours of operation for tenants. Information provided is consistent with typical multitenant retail centers. As noted in the statement and this review, the use and zoning are consistent with the 2024 Master Plan. Surrounding uses are provided and are not uncommon when adjacent to retail along large thoroughfares (M-59).

Community Facilities and Services

The applicant states the site is anticipated to have a low to medium impact on police and fire services. No establishments are proposed to sell alcohol and fire department inspections are required to ensure the site is compliant with life safety standards. The fire department has provided preliminary approval of the site plan. No concerns are cited with the estimated demand on water and sewer systems.

Deliveries for tenants are expected to be once to twice per week. With the potential of up to seven (7) tenants, this could generate seven (7) to fourteen (14) deliveries per week. Single axle box trucks are anticipated to provide the majority of deliveries to the site. A note on Sheet C-3 indicates trucks will not be allowed to idle during loading, unloading, or staging while onsite.

Economics

The site is anticipated to generate approximately fifty (50) to sixty (60) temporary jobs (construction) and approximately fifty (50) permanent service jobs. It is estimated that the proposed development will contribute roughly \$70,000 per year to White Lake Township and local schools from annual property taxes.

Environment

The site is relatively free of major natural features such as clustered woodlands or bodies of water. The primary source of pollution to the site would be particulate matter during construction and personal vehicle operation once built. No major hazardous materials are expected to be kept onsite. The CIS does acknowledge that some tenants will likely be food service business that will

Final Site Plan and Special Land Use Review (Second Revision) August 27, 2025

generate kitchen odors from cooking operations. A note on Sheet C-3 states restaurant tenants shall implement increased mitigation techniques to reduce the impact of kitchen odors.

Noise

Drive thru facilities for the east building have been eliminated and a note on Sheet C-3 states that no drive thru, order kiosk, or loudspeaker system shall be constructed for the east building. The west building drive thru has been identified as a traditional drive thru with menu boards, speakers, and pickup window. This building is the furthest from the residential homes to the east and south.

Traffic

Traffic information does indicate that levels of service are anticipated to remain relatively the same after the site is operating. The traffic impact study does indicate that vehicles attempting to make a left turn out of the site may find the maneuver difficult during peak PM hours.

Mapping

The overhead image provided in the CIS highlights the character of uses along the corridor. Retail uses are prevalent to the west of the site with varying densities of residential throughout the area.

Items to be Addressed: 1.) Planning Commission to consider increased patio size and count for east and west building. 2.) Building and suite square footage as well as tenant count have not been updated in the CIS to reflect the current site plan. The CIS also has a dated traffic study attached. These should be updated to reflect the current plan.

SUMMARY

The final site plan is substantially complete and may be placed on a public hearing agenda for the Planning Commission. However the following clarifications/updates must be provided in writing to the Township prior to the meeting in order to allow the Planning Commission to craft a potential conditional approval.

Clarifications / Updates

- 1. Please clarify proposed parking counts. Site layout count is 121 parking spaces. Table on C-3 and C-10 states 119 parking spaces are proposed. Parking spaces needed by use are 136. Math provided in table on C-3 states 146 parking spaces are required.
- 2. The CIS has not been updated regarding building square footages and tenant counts, and has January 2025 (not May 2025) TIS attached.

Final Site Plan and Special Land Use Review (Second Revision) August 27, 2025

Potential Conditions

- 1. Any cited concerns from Township Engineering are addressed.
- 2. Any cited concerns from Township Public Safety are addressed.
- 3. MDOT will need to approve site access and the pathway along Highland Road (M-59).
- 4. The correct amount of parking should be reflected in all calculations, tables and site layouts
- 5. Sheet 101 should be updated to reflect revised east building patio layout.
- 6. Building and suite square footage as well as tenant count and TIS have not been updated in the CIS to reflect the current site plan.
- 7. Color renderings and sample boards are required for Planning Commission review.

Waivers / Modifications / Determinations

Below is a list of waivers, modifications or determinations necessary from the Planning Commission for the current proposal to be approved.

1. Planning Commission to consider altered patio count and layout for east and west building per special land use standards.

Respectfully,

CARLISLE/WORTMAN ASSOC., INC.

Matteo Passalacqua Community Planner



7420 Highland Road White Lake, MI 48383 Office (248) 698-3993 www.whitelaketwp.com/fire

Site / Construction Plan Review

To: Sean O'Neil, Planning Department Director

Date: 08-19-2025

Project: 9101 Highland Road

Job #: DET-230229

Date on Plans: 08-12-2025

The Fire Department has the following comments with regard to the 6th review of site plan for the project known as 9101 Highland Road.

1. The Fire Dept. has no further comments at this time.

Jason Hanifen Fire Marshal Charter Township of White Lake (248)698-3993 jhanifen@whitelaketwp.com

Plans are reviewed using the International Fire Code (IFC), 2021 Edition and Referenced NFPA Standards.

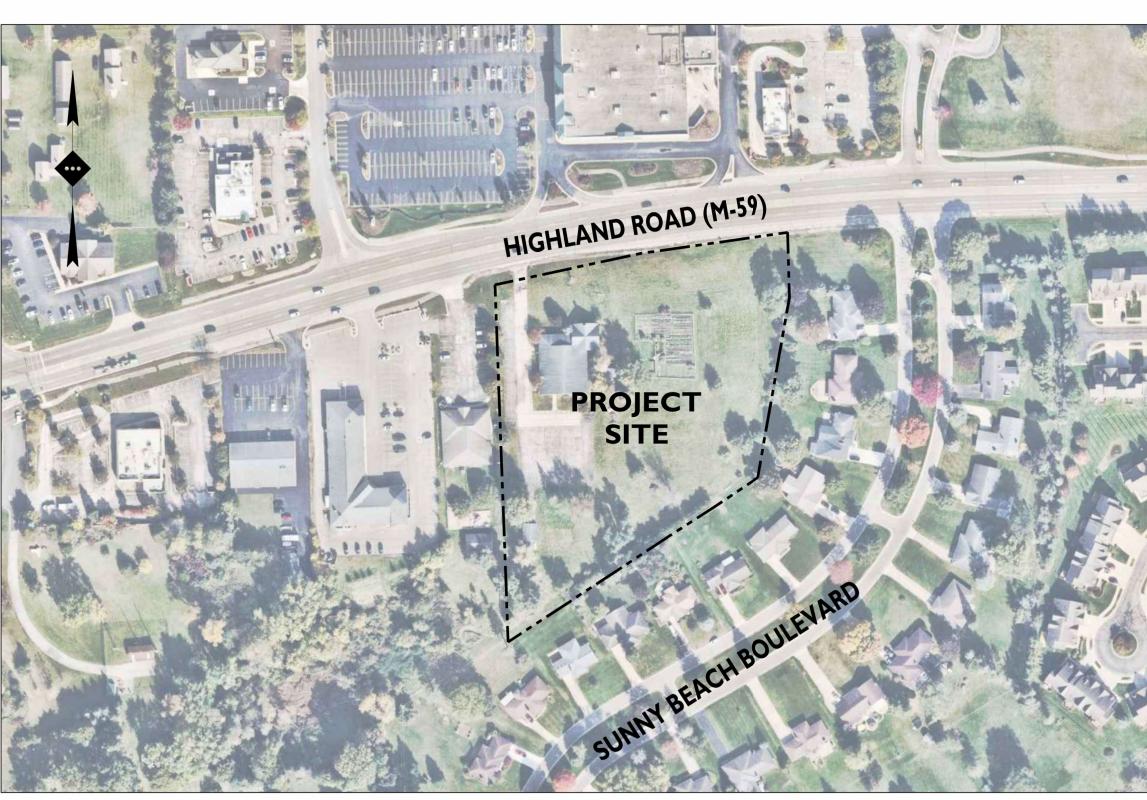
LOCATION MAP

SCALE: $I'' = 2,000' \pm$

SITE DEVELOPMENT PLANS **FOR**

9101 HIGHLAND ROAD PROPOSED COMMERCIAL **DEVELOPMENT**

PID: 12-23-227-003 9101 HIGHLAND ROAD (M-59) WHITE LAKE TOWNSHIP, OAKLAND COUNTY, MICHIGAN



WHITE LAKE CHARTER TOWNSHIP **ENGINEERING NOTES:**

- I. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWNSHIP'S CURRENT STANDARDS AND SPECIFICATIONS.
- 2. THE CONTRACTOR SHALL NOTIFY THE TOWNSHIP ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION, 48 HOURS PRIOR TO THE BEGINNING OF
- CONTRACTOR SHALL CONTACT MISS DIG AT 800-482-7171, 72 HOURS IN ADVANCE OF CONSTRUCTION, FOR EXISTING UNDERGROUND UTILITY LOCATIONS. IN ORDER TO VERIFY COMPLIANCE WITH APPROVED PLANS, FULL-TIME CONSTRUCTION OBSERVATION WILL GENERALLY BE REQUIRED DURING ALL PHASES OF UNDERGROUND SITE CONSTRUCTION INCLUDING INSTALLATION OF SANITARY SEWER, STORM SEWERS, DRAINS, WATERMAINS AND APPURTENANCES AS WELL AS PRIVATE STREET CURBING AND PAVING CONSTRUCTION. INTERMITTENT OBSERVATIONS WILL BE MADE FOR SITE GRADING, PARKING LOT CURBING AND

PLAN REFERENCE MATERIALS:

. THIS PLAN SET REFERENCES THE FOLLOWING DOCUMENTS INCLUDING, BUT NOT ALTA/NSPS LAND TITLE SURVEY PREPARED BY KEM-TEC ASSOCIATES DATED

PAVING, RETAINING WALL CONSTRUCTION AND OTHER SURFACE ACTIVITY.

- ARCHITECTURAL PLANS PREPARED BY BOWER & ASSOCIATES, INC DATED

- TRAFFIC STUDY PREPARED BY FLEIS & VANDENBRINK DATED 05/03/2025 **GEOTECHNICAL REPORT PREPARED BY G2 CONSULTING DATED 09/24/2024**
- INFILTRATION REPORT PREPARED BY G2 CONSULTING DATED 05/07/2025 AERIAL MAP OBTAINED FROM GOOGLE EARTH PRO 12/11/2023 **LOCATION MAP OBTAINED FROM USGS ONLINE MAPPER 08/07/2023**
- 2. ALL REFERENCE MATERIAL LISTED ABOVE SHALL BE CONSIDERED A PART OF THIS PLAN SET AND ALL INFORMATION CONTAINED WITHIN THESE MATERIALS SHALL BE UTILIZED IN CONJUNCTION WITH THIS PLAN SET. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN A COPY OF EACH REFERENCE AND REVIEW IT THOROUGHLY PRIOR TO THE START OF

AERIAL MAP

SCALE: $I'' = 150' \pm$

PLANS PREPARED BY:

Know what's **below**

Call before you dig.

STONEFIELD



555 S. Old Woodward Avenue, Suite 12L, Birmingham, MI 48009 Phone 248.247.1115

ADDITIONAL SHEETS SHEET# DRAWING TITLE ALTA / NSPS LAND TITLE SURVEY I OF I I OF I WHITE LAKE TWP WATERMAIN DETAILS I OF I WHITE LAKE TWP STORM SEWER DETAILS

WHITE LAKE TWP SANITARY DETAILS

OAKLAND COUNTY SOIL EROSION DETAILS

DRAWING TITLE COVER SHEET

I OF I

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COVERSITEET	C-1
DEMOLITION PLAN	C-2
SITE PLAN	C-3
GRADING PLAN	C-4
STORMWATER MANAGEMENT PLAN	C-5
PRE-DEVELOPMENT DRAINAGE AREA MAP	C-6
POST-DEVELOPMENT DRAINAGE AREA MAP	C-7
UTILITY PLAN	C-8
LIGHTING PLAN	C-9
LANDSCAPING PLAN	C-10 & C-11
FIRE TRUCK TURNING ANALYSIS	C-12
COMMERCIAL TRUCK TURNING ANALYSIS	C-13
SOIL EROSION PLAN	C-14
CONSTRUCTION DETAILS	C-15 TO C-18
UTILITY & STORMWATER PROFILES	C-19

SHEET INDEX

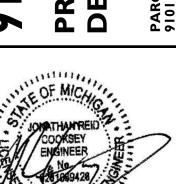
SHEET#

APPLICANT / OWNER

ARCHITECT

BOWERS + ASSOCIATES, INC
2400 SOUTH HURON PARKWAY
ANN ARBOR, MICHIGAN 48104
734-975-2400
SUSANB@BOWERSARCH.COM



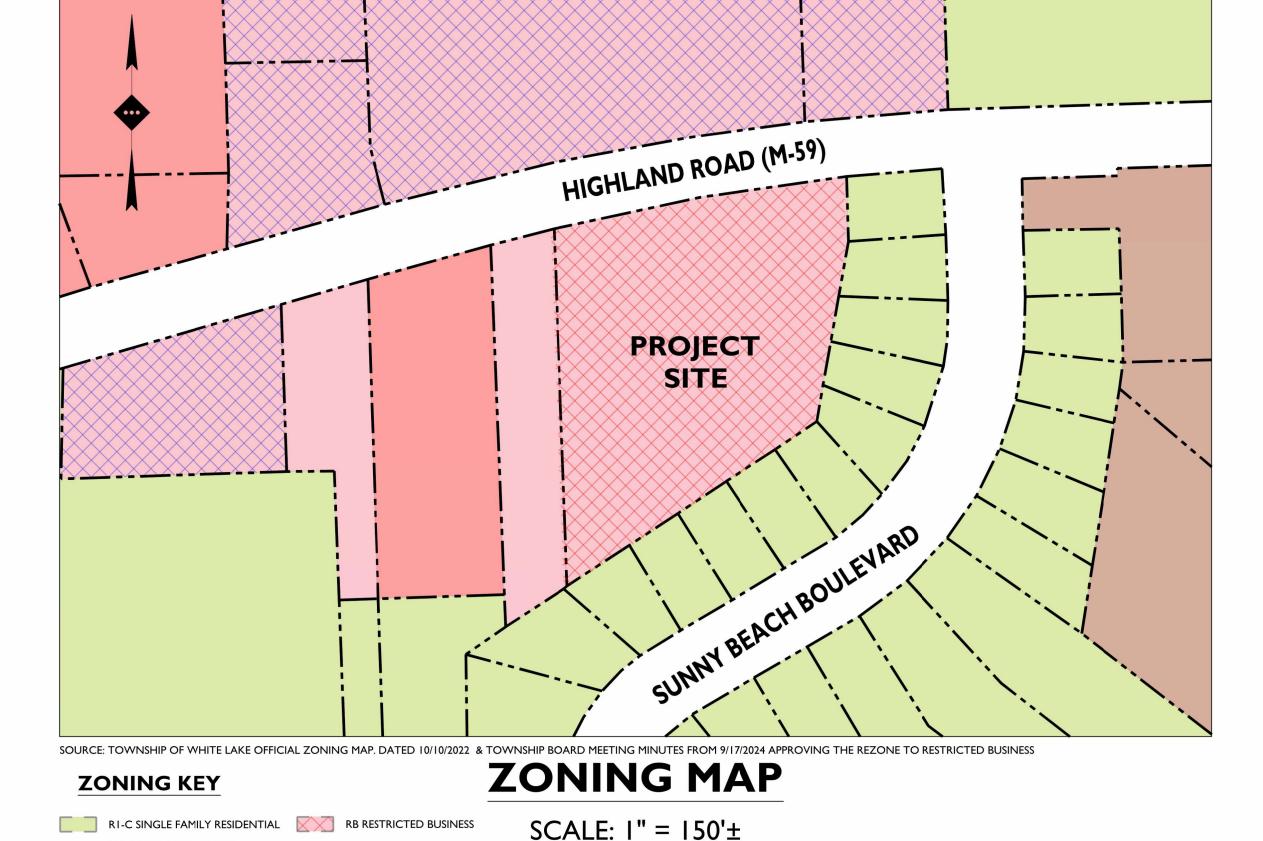




SCALE: AS SHOWN PROJECT ID: DET-230229 **COVER SHEET**

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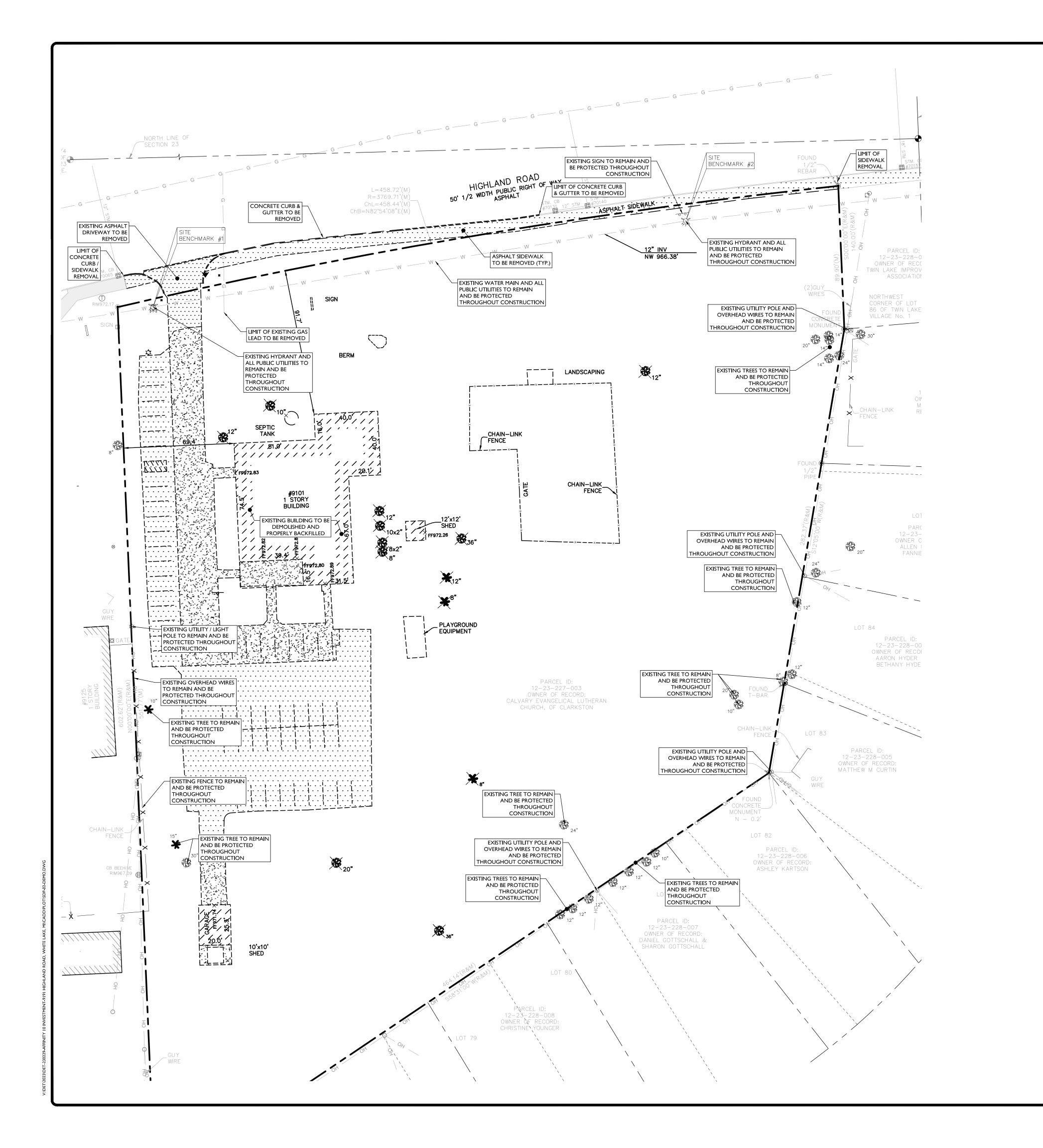
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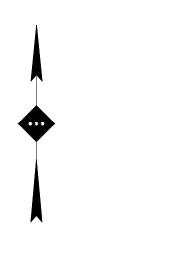


PB PLANNED BUSINESS

LB LOCAL BUSINESS

GB GENERAL BUSINESS





SYMBOL

DESCRIPTION

PROPERTY LINE

FEATURE TO BE REMOVED / DEMOLISHED

ALL SITE FEATURES WITHIN THE PROPERTY LINE INDICATED ON THIS PLAN ARE TO BE REMOVED A DEMOLISHED UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL NOTIFY STONEFIELD **ENGINEERING & DESIGN, LLC. IF SIGNIFICANT** DISCREPANCIES ARE DISCERNED BETWEEN THIS PLAN AND FIELD CONDITIONS

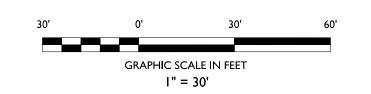


BENGAMMRW hat's below SITE BENCHMARK *Call before you dig. ARROW ON HYDRANT, WEST SIDE OF ASPHALT ENTRANCE

SITE BENCHMARK #2
ARROW ON HYDRANT, S. SIDE OF HIGHLAND ROAD, EAST SIDE OF PROPERTY. ELEVATION = 974.20' (NAVD 88)

DEMOLITION NOTES

- I. THE WORK REFLECTED ON THE DEMOLITION PLAN IS TO PROVIDE GENERAL INFORMATION TOWARDS THE EXISTING ITEMS TO BE DEMOLISHED AND/OR REMOVED. THE CONTRACTOR IS RESPONSIBLE TO REVIEW THE ENTIRE PLAN SET AND ASSOCIATED REPORTS/REFERENCE DOCUMENTS INCLUDING ALL DEMOLITION ACTIVITIES AND INCIDENTAL TASKS NECESSARY TO COMPLETE THE SITE IMPROVEMENTS.
- 2. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE THE MEANS AND
- METHODS OF DEMOLITION ACTIVITIES. 3. EXPLOSIVES SHALL NOT BE USED UNLESS WRITTEN CONSENT FROM BOTH THE OWNER AND ANY APPLICABLE GOVERNING AGENCY IS OBTAINED. BEFORE THE START OF ANY EXPLOSIVE PROGRAM, THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL LOCAL, STATE, AND FEDERAL PERMITS. ADDITIONALLY, THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL SEISMIC TESTING AS REQUIRED AND ANY DAMAGES AS THE RESULT OF SAID DEMOLITION PRACTICES.
- 4. ALL DEMOLITION ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL CODES. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL UTILITIES ARE DISCONNECTED IN ACCORDANCE WITH THE UTILITY AUTHORITY'S REQUIREMENTS PRIOR TO STARTING THE DEMOLITION OF ANY STRUCTURE. ALL EXCAVATIONS ASSOCIATED WITH DEMOLISHED STRUCTURES OR REMOVED TANKS SHALL BE BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED TO SUPPORT SITE AND BUILDING IMPROVEMENTS. A GEOTECHNICAL ENGINEER SHOULD BE PRESENT DURING BACKFILLING ACTIVITIES TO OBSERVE AND CERTIFY THAT BACKFILL MATERIAL WAS COMPACTED TO A SUITABLE CONDITION.
- 5. DEMOLISHED DEBRIS SHALL NOT BE BURIED ON SITE. ALL WASTE/DEBRIS GENERATED FROM DEMOLITION ACTIVITIES SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL RECORDS OF THE DISPOSAL TO DEMONSTRATE COMPLIANCE WITH THE ABOVE REGULATIONS.



9 08/12/2025 EM 8 06/19/2025 EM 7 03/07/2025 EM 6 12/20/2024 EM 5 10/17/2024 EM 7 07/22/2024 EM/JP 3 04/22/2024 EM/JP 1 11/29/2023 JRC/JP ISSUE DATE BY	EM REVISED PER FSP REVIEW #2	EM REVISED PER FSP REVIEW #I	EM SUBMISSION FOR FINAL SITE PLAN APPROVAL	EM REVISED FOR PRELIMINARY SITE PLAN APPROVAL	EM REVISED PER PRELIMINARY SITE PLAN REVIEW #1	EM/JP FOR SITE PLAN REVIEW	CJP SUBMISSION FOR REVISED REZONING REQUEST	EM FOR PRELIMINARY MDOT REVIEW	CJP SUBMISSION FOR REZONING	BY DESCRIPTION
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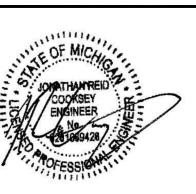
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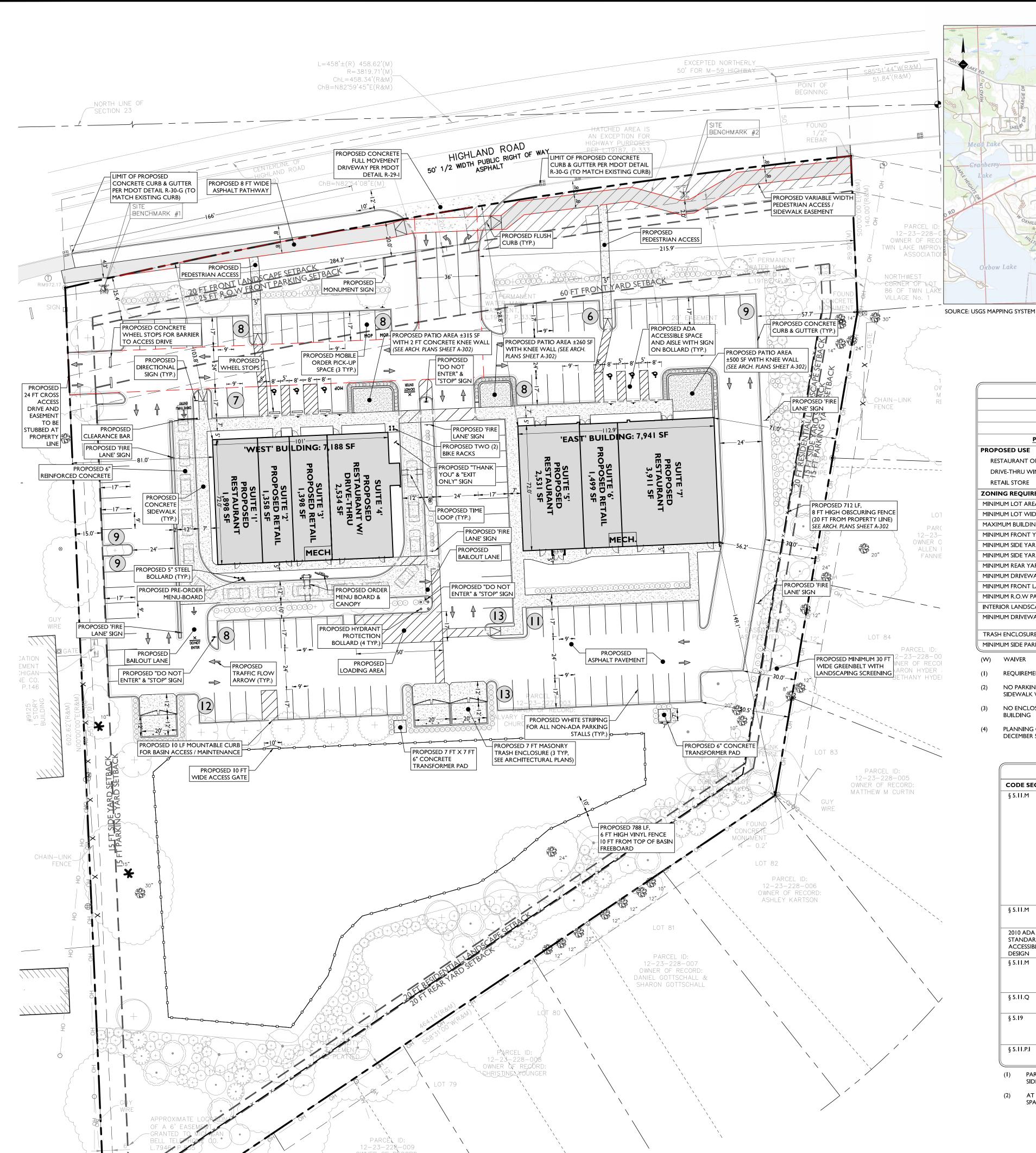


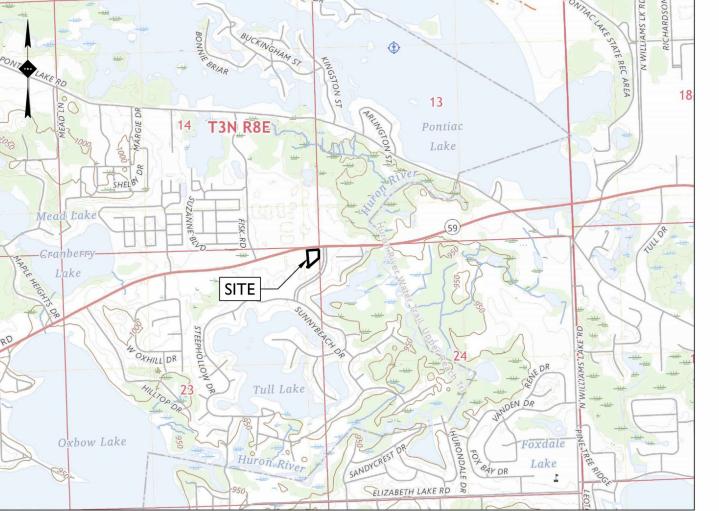


I" = 30' PROJECT ID: DET-230229

DEMOLITION PLAN

DRAWING:





SCALE: $I'' = 2,000' \pm$

LOCATION MAP

LAND USE AI	ND ZONING	
PID:12-23-	-227-003	
EXISTING ZONE: RI-C SING	GLE FAMILY RESIDEN	ΓIAL
2024 MASTER PLAN: COI	MMERCIAL COORIDO	R
PROPOSED REZONE: RESTRICT	TED BUSINESS DISTRI	CT (RB)
PROPOSED USE		
restaurant or fast food	PERMITTED USE	
DRIVE-THRU WINDOW	SPECIAL LAND USE (4)	
RETAIL STORE	PERMITTED USE	
ZONING REQUIREMENT	REQUIRED	PROPOSED
MINIMUM LOT AREA	I AC	195,568 SF (4.5 AC)
MINIMUM LOT WIDTH	200 FT	458.4 FT
MAXIMUM BUILDING HEIGHT	35 FT (2 STORIES)	20 FT (I STORY)
MINIMUM FRONT YARD SETBACK	60 FT ⁽¹⁾	103.8 FT
MINIMUM SIDE YARD SETBACK (ONE)	I5 FT	56.0 FT
MINIMUM SIDE YARD SETBACK (BOTH)	20 FT	137.0 FT
MINIMUM REAR YARD SETBACK	20 FT	149.1 FT
MINIMUM DRIVEWAY FROM RESIDENTIAL	200 FT ^(I)	215.8 FT
MINIMUM FRONT LANDSCAPE SETBACK	20 FT	25.4 FT
MINIMUM R.O.W PARKING SETBACK	25 FT ⁽²⁾	25.4 FT
INTERIOR LANDSCAPING AREA	15% (29,335 SF)	>15%
MINIMUM DRIVEWAY SPACING (HIGHLAND ROAD)	455 FT	±284.3 FT TO WEST (W)
TRASH ENCLOSURE SETBACK	103.8 FT ⁽³⁾	COMPLIES
MINIMUM SIDE PARKING SETBACK	I5 FT	15.0 FT

- REQUIREMENT FOR RESTAURANT WITH DRIVE-THRU
- NO PARKING STALL SHALL BE LOCATED ADJACENT TO R.O.W LINE, STREET EASEMENT OR SIDEWALK WHICHEVER IS CLOSER
- NO ENCLOSURES SHALL BE PERMITTED CLOSER TO THE FRONT LOT LINE THAN THE PRINCIPAL
- PLANNING COMMISSION APPROVED SPECIAL LAND USE FOR ONE (I) DRIVE-THRU TENANT DECEMBER 5, 2024

OFF-9	STREET PARKING REQUIRE	MENTS
CODE SECTION	REQUIRED	PROPOSED
§ 5.11.M	MAXIMUM REQUIRED PARKING:	119 SPACES
	FAST FOOD:	
	I SPACE PER 75 OF GFA	
	(2,529 SF)(I SPACE / 75 SF) = 34 SPACES	
	RESTAURANT, NOT INCLUDING ALCOHOL:	
	I SPACE PER 100 SF OF GFA	
	(7,809 SF)(I SPACE / I00 SF) = 78 SPACES	
	RETAIL PARKING:	
	I SPACE PER 200 SF OF GFA	
	(4,806 SF)(I SPACE / 200 SF) = 24 SPACES	
	TOTAL: 34 + 100 + 12 = 146 SPACES	
§ 5.11.M	MINIMUM REQUIRED PARKING SPACES:	119 SPACES
	(146 SPACES)(0.75) = 102 SPACES (2)	
2010 ADA	ADA ACCESSIBLE PARKING:	6 ACCESSIBLE
STANDARDS FOR ACCESSIBLE DESIGN	101 TO 150 SPACES = 5 ACCESSIBLE SPACES	SPACES
§ 5.11.M	STACKING (FAST FOOD W/ INDOOR SEATING):	15 SPACES
	8 VEHICLES INCLUSIVE OF VEHICLE AT THE WINDOW (9 FT X 19 FT)	(I2 FT X I9 FT)
§ 5.11.Q	90° PARKING:	9 FT X 17 FT
	9 FT X 19 FT WITH 24 FT AISLE ⁽¹⁾	W/ 24 FT AISLE
§ 5.19	LANDSCAPE REQUIREMENT:	30 FT WIDTH
	20 FT WIDTH ALONG RESIDENTIAL	8 FT FENCE
	6-8 FT OBSCURING FENCE	
§ 5.11.P.I	LOADING AREA:	17 FT × 50 FT
	10 FT X 50 FT WITH 15 FT CLEARANCE	

- PARKING SPACE LENGTH MAY BE REDUCED TO 17 FT WHERE 7 FT SIDEWALK OR LANDSCAPE IS PROVIDED.
- (2) AT LEAST 75% OF THE MAXIMUM ALLOWABLE NUMBER OF PARKING SPACES SHALL BE PROVIDED.

SYMBOL DESCRIPTION PROPERTY LINE SETBACK LINE PROPOSED CURB & GUTTER PROPOSED SIGNS / BOLLARDS PROPOSED BUILDING PROPOSED CONCRETE PROPOSED 8 FT OBSCURING FENCE

ANTICIPATED TENANTS / HOURS OF OPERATION

PROPOSED 6 FT FENCE

- NOTHING BUNDT THE CAKE: 9:30 AM TO 8PM
- FIVE GUYS: 11 AM TO 10 PM
- STARBUCKS: 5 AM TO 8 PM JERSEY MIKE'S: 10 AM TO 9 PM

SITE PLAN CONDITIONS

- I. TRUCKS SHALL NOT BE ALLOWED TO IDLE DURING LOADING, UNLOADING OR STAGING WHILE ONSITE
- 2. NO DRIVE-THRU, ORDER KIOSK OR LOUDSPEAKER SYSTEM SHALL BE CONSTRUCTED FOR THE EAST BUILDING
- 3. SITE LIGHTING SHALL BE TURNED OFF WITHIN ONE HOUR OF CLOSE OF BUSINESS
- 4. THERE SHALL BE NO FLASHING, OSCILLATING, MOVING OR INTERMITTENT TYPE OF LIGHTING OR
- 5. RESTAURANT TENANTS SHALL IMPLEMENT INCREASED MITIGATION TECHNIQUES TO REDUCE THE IMPACT OF KITCHEN ODORS

BENCHMARK

ILLUMINATION ON THE SITE

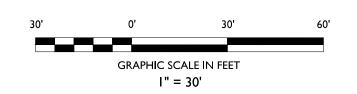
SITE BENCHMARK #I
ARROW ON HYDRANT, WEST SIDE OF ASPHALT ENTRANCE. ELEVATION = 975.36' (NAVD 88)

SITE BENCHMARK #2
ARROW ON HYDRANT, S. SIDE OF HIGHLAND ROAD, EAST SIDE OF PROPERTY. ELEVATION = 974.20' (NAVD 88)

- I. THE CONTRACTOR SHALL VERIFY AND FAMILIARIZE THEMSELVES WITH THE EXISTING SITE CONDITIONS AND THE PROPOSED SCOPE OF WORK (INCLUDING DIMENSIONS, LAYOUT, ETC.) PRIOR TO INITIATING THE IMPROVEMENTS IDENTIFIED WITHIN THESE DOCUMENTS. SHOULD ANY DISCREPANCY BE FOUND BETWEEN THE EXISTING SITE CONDITIONS AND THE PROPOSED WORK THE CONTRACTOR SHALL NOTIFY
- STONEFIELD ENGINEERING & DESIGN, LLC. PRIOR TO THE START OF CONSTRUCTION. 2. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND ENSURE THAT ALL REQUIRED APPROVALS HAVE BEEN OBTAINED PRIOR TO THE START OF CONSTRUCTION. COPIES OF ALL REQUIRED PERMITS AND APPROVALS SHALL BE KEPT ON SITE AT ALL TIMES DURING CONSTRUCTION.
- 3. ALL CONTRACTORS WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, INDEMNIFY AND HOLD HARMLESS STONEFIELD ENGINEERING & DESIGN, LLC. AND IT'S SUB-CONSULTANTS FROM AND AGAINST ANY DAMAGES AND LIABILITIES INCLUDING ATTORNEY'S FEES ARISING OUT OF CLAIMS BY EMPLOYEES OF THE CONTRACTOR IN ADDITION TO CLAIMS CONNECTED TO THE PROJECT AS A RESULT OF NOT CARRYING THE PROPER INSURANCE FOR WORKERS COMPENSATION, LIABILITY INSURANCE, AND LIMITS OF COMMERCIAL GENERAL LIABILITY INSURANCE.
- 4. THE CONTRACTOR SHALL NOT DEVIATE FROM THE PROPOSED IMPROVEMENTS IDENTIFIED WITHIN THIS PLAN SET UNLESS APPROVAL IS PROVIDED IN WRITING BY STONEFIELD ENGINEERING & DESIGN, LLC.

PRIVATE PROPERTY NOT CONTROLLED BY THE PERSON OR ENTITY WHO HAS

- 5. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE THE MEANS AND METHODS OF 6. THE CONTRACTOR SHALL NOT PERFORM ANY WORK OR CAUSE DISTURBANCE ON A
- AUTHORIZED THE WORK WITHOUT PRIOR WRITTEN CONSENT FROM THE OWNER OF THE PRIVATE PROPERTY. 7. THE CONTRACTOR IS RESPONSIBLE TO RESTORE ANY DAMAGED OR UNDERMINED STRUCTURE OR SITE FEATURE THAT IS IDENTIFIED TO REMAIN ON THE PLAN SET. ALL
- REPAIRS SHALL USE NEW MATERIALS TO RESTORE THE FEATURE TO ITS EXISTING CONDITION AT THE CONTRACTORS EXPENSE. 8. CONTRACTOR IS RESPONSIBLE TO PROVIDE THE APPROPRIATE SHOP DRAWINGS,
- PRODUCT DATA, AND OTHER REQUIRED SUBMITTALS FOR REVIEW. STONEFIELD ENGINEERING & DESIGN, LLC. WILL REVIEW THE SUBMITTALS IN ACCORDANCE WITH THE DESIGN INTENT AS REFLECTED WITHIN THE PLAN SET.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL IN ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION. 10. THE CONTRACTOR IS REQUIRED TO PERFORM ALL WORK IN THE PUBLIC RIGHT-OF-WAY IN ACCORDANCE WITH THE APPROPRIATE GOVERNING AUTHORITY
- AND SHALL BE RESPONSIBLE FOR THE PROCUREMENT OF STREET OPENING PERMITS. II. THE CONTRACTOR IS REQUIRED TO RETAIN AN OSHA CERTIFIED SAFETY INSPECTOR TO BE PRESENT ON SITE AT ALL TIMES DURING CONSTRUCTION & DEMOLITION
- 12. SHOULD AN EMPLOYEE OF STONEFIELD ENGINEERING & DESIGN, LLC. BE PRESENT ON SITE AT ANY TIME DURING CONSTRUCTION, IT DOES NOT RELIEVE THE CONTRACTOR OF ANY OF THE RESPONSIBILITIES AND REQUIREMENTS LISTED IN THE NOTES WITHIN



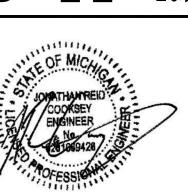
EM REVISED PER FSP REVIEW #1	EM SUBMISSION FOR FINAL SITE PLAN APPROVAL EM REVISED FOR PRELIMINARY SITE PLAN APPROVA	EMJP FOR SITE PLAN REVIEW	SUBMISSION FOR REVISED REZONING REQUEST FOR PREI IMINARY MOOT REVIEW		BY DESCRIPTION
06/19/2025	03/07/2025	10/17/2024 07/22/2024	04/22/2024	11/29/2023	DATE

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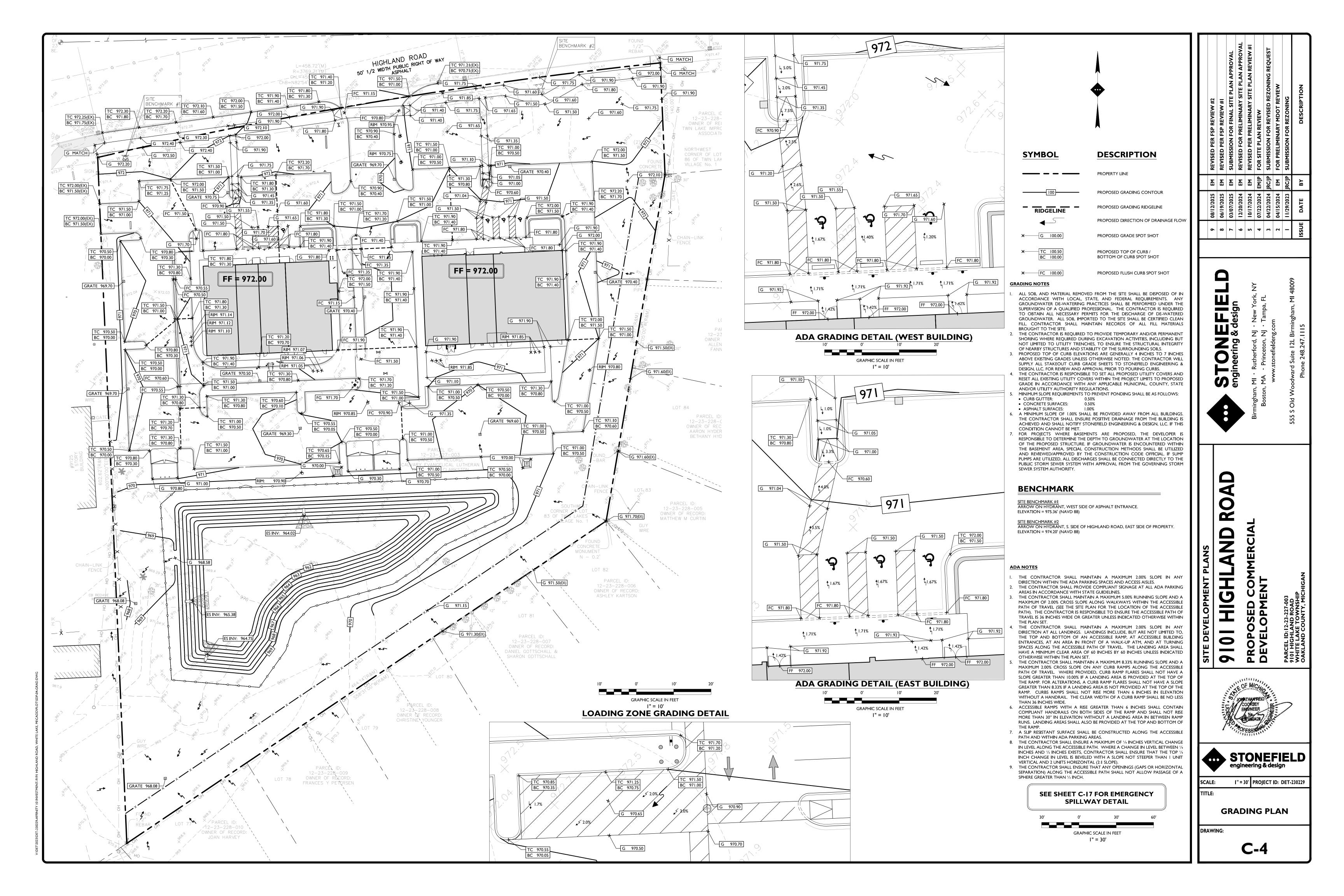


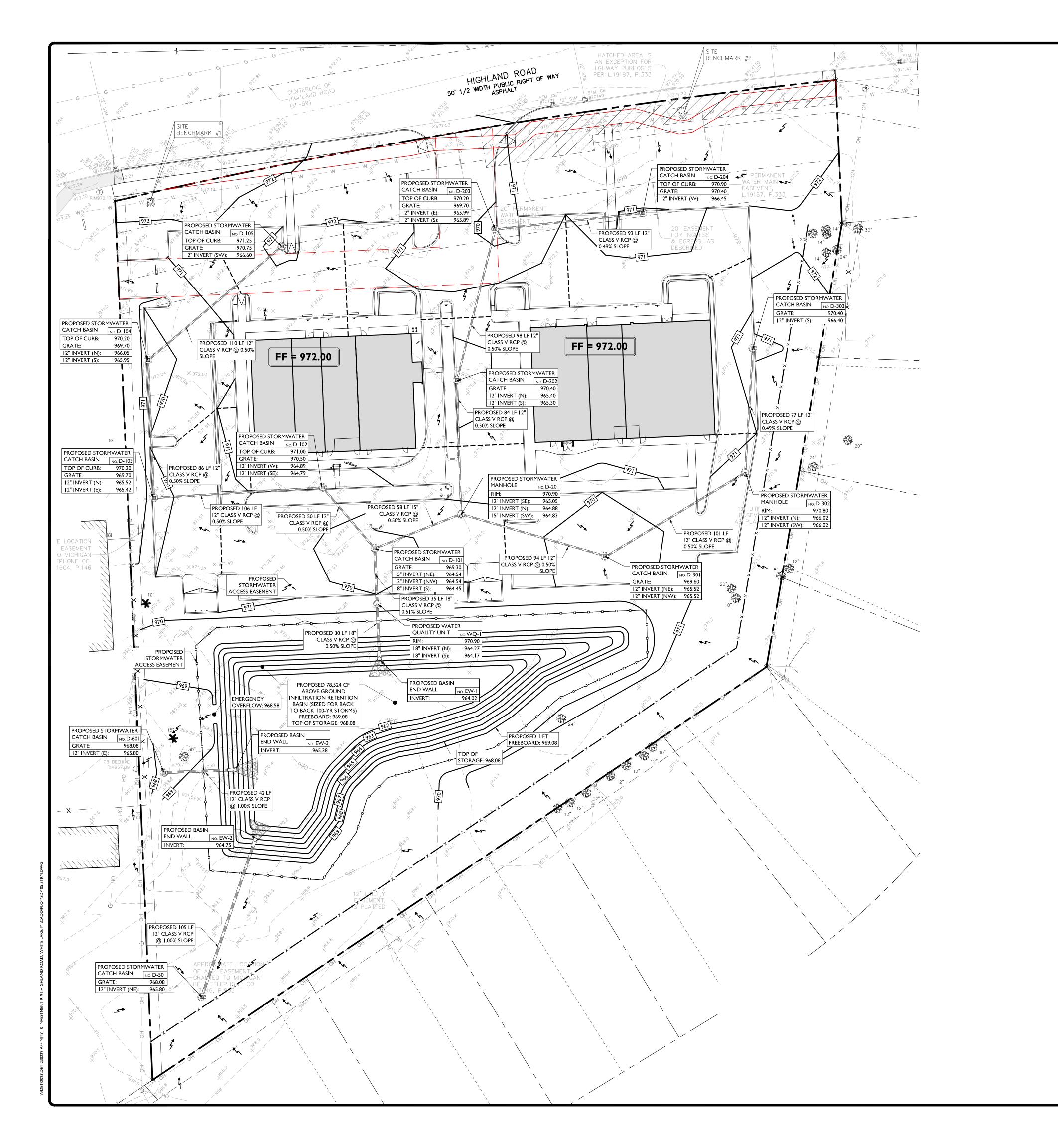


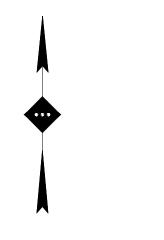
I" = 30' PROJECT ID: DET-230229

SITE PLAN

DRAWING:







SYMBOL DESCRIPTION

PROPERTY LINE PROPOSED GRADING CONTOUR

RIDGELINE

PROPOSED STORMWATER STRUCTURES

PROPOSED GRADING RIDGELINE

PROPOSED STORMWATER PIPING

SEE SHEET C-17 FOR EMERGENCY SPILLWAY DETAIL, SHEET C-18 FOR STORMWATER CALCULATIONS, SHEET C-19 FOR STORMWATER **PROFILES (INCLUDING ALL UTILITY CROSSING INFORMATION)**

DRAINAGE AND UTILITY NOTES

- I. THE CONTRACTOR TO PERFORM A TEST PIT PRIOR TO CONSTRUCTION (RECOMMEND 30 DAYS PRIOR) AT LOCATIONS OF EXISTING UTILITY CROSSINGS FOR STORMWATER IMPROVEMENTS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. IN WRITING.
- 2. CONTRACTOR SHALL START CONSTRUCTION OF STORM LINES AT THE LOWEST INVERT AND WORK UP-GRADIENT.
- 3. THE CONTRACTOR IS REQUIRED TO CALL THE APPROPRIATE AUTHORITY FOR NOTICE OF CONSTRUCTION/EXCAVATION AND UTILITY MARK OUT PRIOR TO THE START OF CONSTRUCTION IN ACCORDANCE WITH STATE LAW. CONTRACTOR IS REQUIRED TO CONFIRM THE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES IN THE FIELD. SHOULD A DISCREPANCY EXIST BETWEEN THE FIELD LOCATION OF A UTILITY AND THE LOCATION SHOWN ON THE PLAN SET OR SURVEY, THE CONTRACTOR SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. IMMEDIATELY IN WRITING.
- 4. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN A RECORD OF THE AS-BUILT LOCATIONS OF ALL PROPOSED UNDERGROUND INFRASTRUCTURE. THE CONTRACTOR SHALL NOTE ANY DISCREPANCIES BETWEEN THE AS-BUILT LOCATIONS AND THE LOCATIONS DEPICTED WITHIN THE PLAN SET. THIS RECORD SHALL BE PROVIDED TO THE OWNER FOLLOWING COMPLETION OF

EXCAVATION, SOIL PREPARATION, AND DEWATERING NOTES

I. THE CONTRACTOR IS REQUIRED TO REVIEW THE REFERENCED GEOTECHNICAL DOCUMENTS PRIOR TO CONSTRUCTION, THESE DOCUMENTS SHALL BE CONSIDERED A PART OF THE PLAN SET. 2. THE CONTRACTOR IS REQUIRED TO PREPARE SUBGRADE SOILS

BENEATH ALL PROPOSED IMPROVEMENTS AND BACKFILL ALL

- EXCAVATIONS IN ACCORDANCE WITH RECOMMENDATIONS BY THE GEOTECHNICAL ENGINEER OF RECORD. 3. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING SHORING FOR ALL EXCAVATIONS AS REQUIRED. CONTRACTOR SHALL HAVE THE SHORING DESIGN PREPARED BY A QUALIFIED PROFESSIONAL. SHORING DESIGNS SHALL BE SUBMITTED TO STONEFIELD ENGINEERING & DESIGN, LLC. AND THE OWNER PRIOR TO THE
- 4. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL OPEN EXCAVATIONS ARE PERFORMED AND PROTECTED IN ACCORDANCE WITH THE LATEST OSHA REGULATIONS.

START OF CONSTRUCTION.

5. THE CONTRACTOR IS RESPONSIBLE FOR ANY DEWATERING DESIGN AND OPERATIONS, AS REQUIRED, TO CONSTRUCT THE PROPOSED IMPROVEMENTS, THE CONTRACTOR SHALL OBTAIN ANY REQUIRED PERMITS FOR DEWATERING OPERATIONS AND GROUNDWATER

BENCHMARK

ELEVATION = 975.36' (NAVD 88)

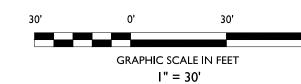
SITE BENCHMARK #2
ARROW ON HYDRANT, S. SIDE OF HIGHLAND ROAD, EAST SIDE OF PROPERTY. ELEVATION = 974.20' (NAVD 88)

- 2. THE CONTRACTOR SHALL MAKE EVERY EFFORT, WHERE PRACTICAL, TO AVOID SUBGRADE SOIL COMPACTION IN THE AREAS DESIGNATED TO BE USED FOR AN INFILTRATION BMP.
- ALL EXCAVATION WITHIN THE LIMITS OF ANY INFILTRATION BMP SHALL BE PERFORMED WITH THE LIGHTEST PRACTICAL EXCAVATION EQUIPMENT. ALL EXCAVATION EQUIPMENT SHALL BE PLACED OUTSIDE THE LIMITS OF THE BASIN WHERE FEASIBLE. THE USE OF LIGHT-WEIGHT, RUBBER-TIRED EQUIPMENT (LESS THAN 8 PSI APPLIED TO THE GROUND SURFACE) IS RECOMMENDED WITHIN THE BASIN LIMITS.

4. THE SEQUENCE OF SITE CONSTRUCTION SHALL BE COORDINATED

BOTTOM OF THE BASIN SHALL BE DEEPLY TILLED WITH A ROTARY TILLER OR DISC HARROW AND THEN SMOOTHED OUT WITH A LEVELING DRAW OR EQUIVALENT GRADING EQUIPMENT. ALL GRADING EQUIPMENT SHALL BE LOCATED OUTSIDE OF THE BASIN BOTTOM WHERE FEASIBLE

ENGINEERING & DESIGN, LLC. IN WRITING IMMEDIATELY TO



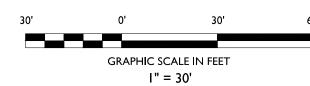
SITE BENCHMARK #I
ARROW ON HYDRANT, WEST SIDE OF ASPHALT ENTRANCE.

STORMWATER INFILTRATION BMP CONSTRUCTION NOTES

- PRIOR TO THE START OF CONSTRUCTION, ANY AREA DESIGNATED TO BE USED FOR AN INFILTRATION BMP (E.G. BASIN, BIORETENTION AREA, ETC.) SHALL BE FENCED OFF AND SHALL NOT BE UTILIZED AS STORAGE FOR CONSTRUCTION EQUIPMENT OR AS A STOCKPILE AREA FOR CONSTRUCTION MATERIALS. NO ACTIVITY SHALL BE PERMITTED WITHIN THE INFILTRATION BASIN AREA UNLESS RELATED TO THE CONSTRUCTION OF THE INFILTRATION BASIN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY ALL SUBCONTRACTORS OF BASIN AREA RESTRICTIONS.
- WITH BASIN CONSTRUCTION TO ADHERE TO SEQUENCING LIMITATIONS. 5. DURING THE FINAL GRADING OF AN INFILTRATION BASIN, THE

FOLLOWING CONSTRUCTION OF AN INFILTRATION BASIN, SOIL INFILTRATION TESTING BY A LICENSED GEOTECHNICAL ENGINEER IS REQUIRED TO CERTIFY COMPLIANCE WITH THE DESIGN INFILTRATION RATES IN ACCORDANCE WITH APPENDIX E OF THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION'S BEST MANAGEMENT PRACTICES MANUAL, LATEST EDITION. IF THE FIELD INFILTRATION RATES ARE LOWER THAN THE RATE USED DURING DESIGN, THE CONTRACTOR SHALL NOTIFY STONEFIELD

DETERMINE THE APPROPRIATE COURSE OF ACTION. THE CONTRACTOR SHALL NOTIFY THE MUNICIPALITY TO DETERMINE IF WITNESS TESTING IS REQUIRED DURING INFILTRATION BASIN EXCAVATION AND/OR SOIL INFILTRATION





I" = 30' PROJECT ID: DET-230229

STORMWATER MANAGEMENT PLAN

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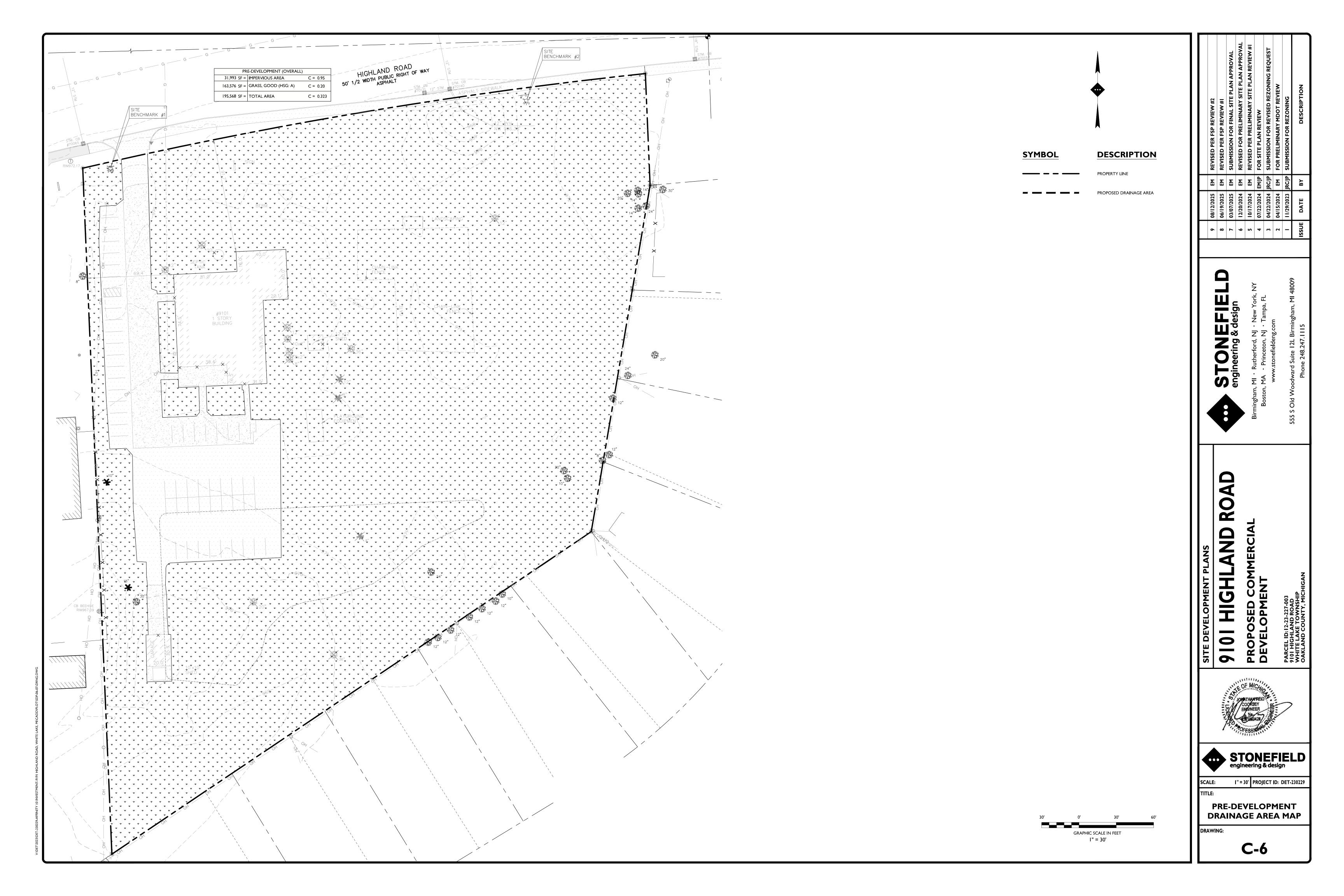
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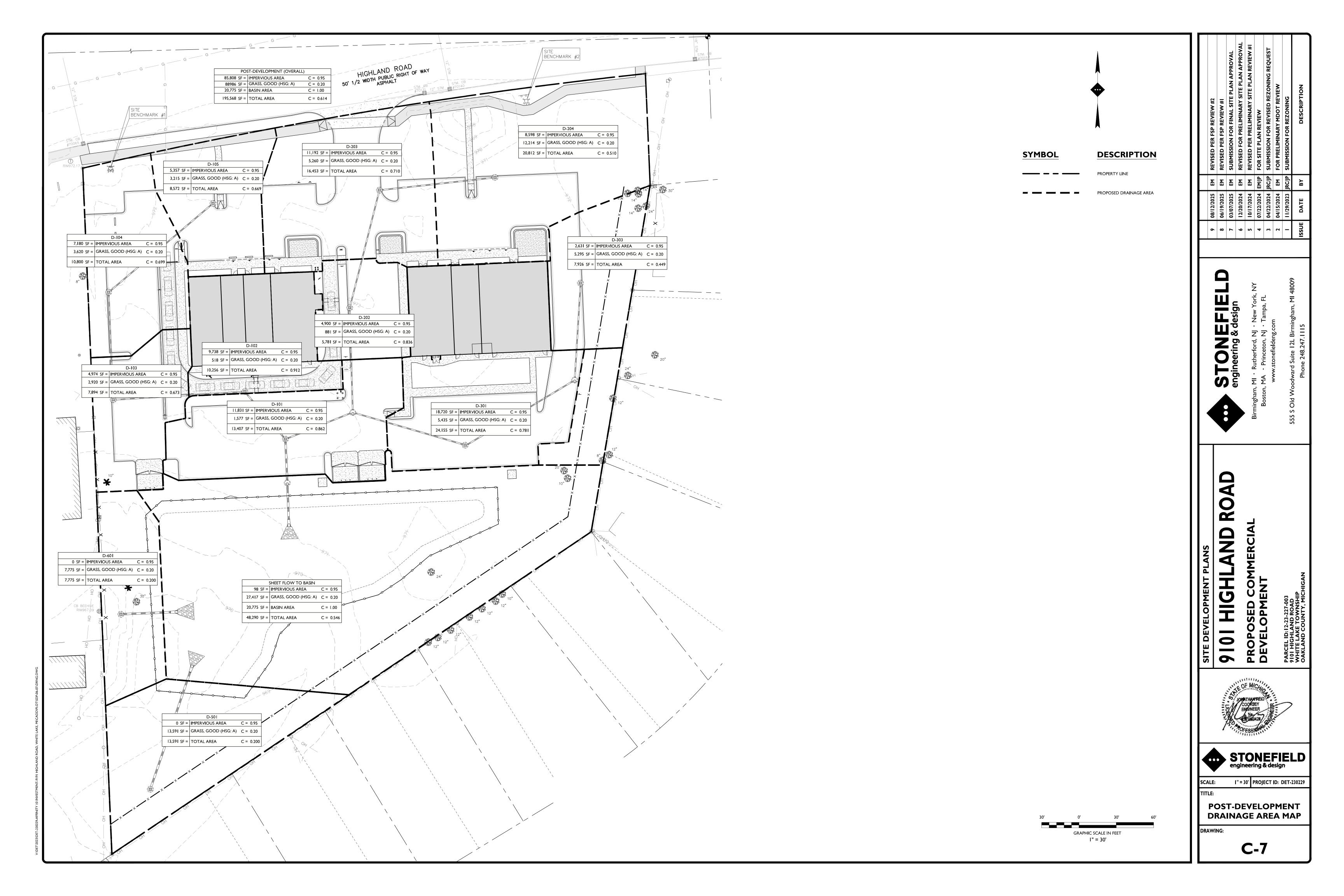
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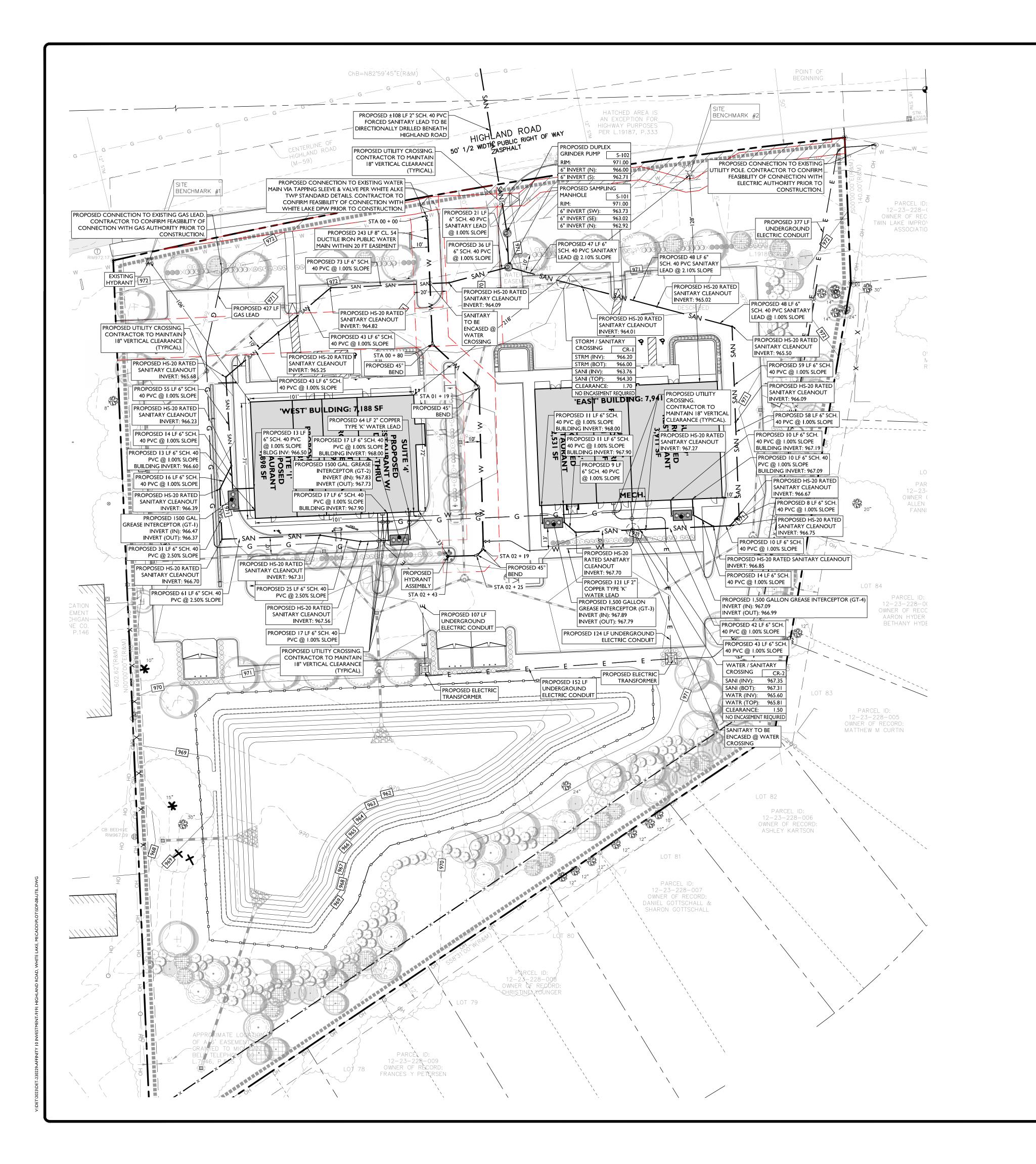
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SYMBOL DESCRIPTION PROPERTY LINE PROPOSED SANITARY LATERAL PROPOSED DOMESTIC WATER SERVICE PROPOSED ELECTRIC CONDUITS PROPOSED GAS LINE PROPOSED VALVE PROPOSED CLEANOUT PROPOSED TRANSFORMER ON CONCRETE PAD WITH BOLLARDS

SEE SHEET C-19 FOR UTILITY PROFILES / UTILITY CROSSING INFORMATION.

CONTRACTOR TO PROVIDE MINIMUM 18" VERTICAL **CLEARANCE AT ALL UTILITY CROSSINGS.**

ALL SANITARY LEADS SHALL BE **ENCASED AT WATER MAIN / LEAD CROSSINGS PER WHITE** LAKE TOWNSHIP STANDARDS

COMPACTED BACKFILL SHALL BE PROVIDED FOR ALL SANITARY & WATER LEADS UNDER PAVED AREAS PER WHITE LAKE TOWNSHIP STANDARD DETAILS

MANHOLE SCHEDUL

NUM	TYPE	RIM (FT)	SIZE (IN)	DIR	INV ELEV (FT)
70065	CATCH BASIN	971.68	12	N	968.03
70131	CATCH BASIN	970.71	12	Ε	966.71
70140	CATCH BASIN	970.70	12	W	966.50
		970.70	12	N	966.45
		970.70	12	S	966.55
70157	CATCH BASIN	971.02	18	Ν	964.12

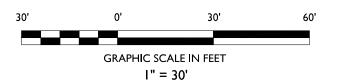
BENCHMARK

SITE BENCHMARK #I
ARROW ON HYDRANT, WEST SIDE OF ASPHALT ENTRANCE. ELEVATION = 975.36' (NAVD 88)

SITE BENCHMARK #2
ARROW ON HYDRANT, S. SIDE OF HIGHLAND ROAD, EAST SIDE OF PROPERTY. ELEVATION = 974.20' (NAVD 88)

DRAINAGE AND UTILITY NOTES

- I. THE CONTRACTOR IS REQUIRED TO CALL THE APPROPRIATE AUTHORITY FOR NOTICE OF CONSTRUCTION/EXCAVATION AND UTILITY MARK OUT PRIOR TO THE START OF CONSTRUCTION IN ACCORDANCE WITH STATE LAW. CONTRACTOR IS REQUIRED TO CONFIRM THE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES IN THE FIELD. SHOULD A DISCREPANCY EXIST BETWEEN THE FIELD LOCATION OF A UTILITY AND THE LOCATION SHOWN ON THE PLAN SET OR SURVEY, THE CONTRACTOR SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. IMMEDIATELY IN WRITING.
- 2. THE CONTRACTOR IS RESPONSIBLE TO PROTECT AND MAINTAIN IN OPERATION ALL UTILITIES NOT DESIGNATED TO BE REMOVED.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO ANY EXISTING UTILITY IDENTIFIED TO REMAIN WITHIN THE LIMITS OF THE PROPOSED WORK DURING CONSTRUCTION. 4. A MINIMUM HORIZONTAL SEPARATION OF 10 FEET IS REQUIRED BETWEEN ANY SANITARY SEWER SERVICE AND ANY WATER LINES. IF
- THIS SEPARATION CANNOT BE PROVIDED, A CONCRETE ENCASEMENT SHALL BE UTILIZED FOR THE SANITARY SEWER SERVICE AS APPROVED BY STONEFIELD ENGINEERING & DESIGN, LLC. 5. ALL WATER LINES SHALL BE VERTICALLY SEPARATED ABOVE SANITARY SEWER LINES BY A MINIMUM DISTANCE OF 18 INCHES. IF THIS SEPARATION CANNOT BE PROVIDED, A CONCRETE ENCASEMENT
- SHALL BE UTILIZED FOR THE SANITARY SEWER SERVICE AS APPROVED BY STONEFIELD ENGINEERING & DESIGN, LLC. 6. THE CONTRACTOR TO PERFORM A TEST PIT PRIOR TO CONSTRUCTION (RECOMMEND 30 DAYS PRIOR) AT LOCATIONS OF EXISTING UTILITY CROSSINGS FOR WATER AND SANITARY SEWER CONNECTION IMPROVEMENTS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY STONEFIELD
- ENGINEERING & DESIGN, LLC. IN WRITING. 7. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING GAS, ELECTRIC AND TELECOMMUNICATION CONNECTIONS WITH THE
- APPROPRIATE GOVERNING AUTHORITY. 8. CONTRACTOR SHALL START CONSTRUCTION OF ANY GRAVITY SEWER AT THE LOWEST INVERT AND WORK UP-GRADIENT.
- THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN A RECORD SET OF PLANS REFLECTING THE LOCATION OF EXISTING UTILITIES THAT HAVE BEEN CAPPED, ABANDONED, OR RELOCATED BASED ON THE DEMOLITION/REMOVAL ACTIVITIES REQUIRED IN THIS PLAN SET. THIS DOCUMENT SHALL BE PROVIDED TO THE OWNER FOLLOWING
- COMPLETION OF WORK. 10. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN A RECORD OF THE AS-BUILT LOCATIONS OF ALL PROPOSED UNDERGROUND INFRASTRUCTURE. THE CONTRACTOR SHALL NOTE ANY DISCREPANCIES BETWEEN THE AS-BUILT LOCATIONS AND THE LOCATIONS DEPICTED WITHIN THE PLAN SET. THIS RECORD SHALL BE PROVIDED TO THE OWNER FOLLOWING COMPLETION OF WORK.

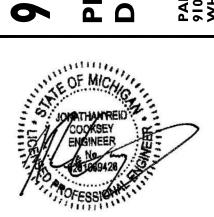


6	08/12/2025	EM	REVISED PER FSP REVIEW #2
&	06/19/2025	Ε	REVISED PER FSP REVIEW #I
7	03/07/2025	Ε	SUBMISSION FOR FINAL SITE PLAN APPROV
9	12/20/2024	Ε	REVISED FOR PRELIMINARY SITE PLAN APP
2	10/17/2024	Ε	REVISED PER PRELIMINARY SITE PLAN REVI
4	07/22/2024	EM/JP	FOR SITE PLAN REVIEW
က	04/22/2024	JRC/JP	SUBMISSION FOR REVISED REZONING REQU
2	04/15/2024	Ε	FOR PRELIMINARY MDOT REVIEW
_	11/29/2023	JRC/JP	SUBMISSION FOR REZONING
ISSUE	DATE	ВҮ	DESCRIPTION

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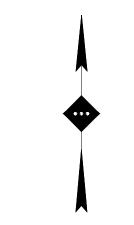


I" = 30' PROJECT ID: DET-230229

UTILITY PLAN

DRAWING:

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SYMBOL

(FOOTCANDLES)

(MOUNTING HEIGHT)

DESCRIPTION

PROPOSED LIGHTING FIXTURE

PROPOSED LIGHTING INTENSITY

A (XX')

PROPOSED AREA LIGHT

LIGHTING REQUIREMENTS **PROPOSED** CODE SECTION MAXIMUM FC AT PROPERTY LINE (NON-RESIDENTIAL) § 5.18.G.3 MAXIMUM FC AT PROPERTY LINE (RESIDENTIAL) § 5.18.G.7 MAXIMUM HEIGHT WITHIN 26 FT TO 60 FT OF PROPERTY LINE § 5.18.G.3 MINIMUM FIXTURE LIGHT FROM PROPERTY LINE § 5.18.G.viii FOOT CANDLE LIMITS FOR VARIOUS LAND USES AVERAGE FOR ENTIRE SITE: GENERAL: 0.5 DRIVEWAY: 2.0 PARKING: 2.0 WALKS: I.0 PROTECTIVE: I.0 **BUILDING: 5.0** LOADING AREAS: 1.0

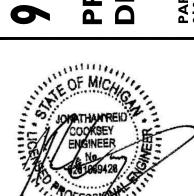
	LIGHTING S	TATISTICS	
DESCRIPTION	AVERAGE	MINIMUM	MAXIMUM
OVERALL PARCEL	1.06 FC	0.00 FC	9.0 FC
PROPERTY LINE (NON-RESIDENTIAL)	0.01 FC	0.00 FC	0.4 FC
PROPERTY LINE (RESIDENTIAL)	0.00 FC	0.00 FC	0.0 FC

SITE LIGHTING SHALL BE TURNED OFF WITHIN ONE HOUR OF CLOSE OF **BUSINESS**

THERE SHALL BE NO FLASHING, OSCILLATING, MOVING OR INTERMITTENT TYPE OF LIGHTING OR **ILLUMINATION ON THE SITE**

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engineering & design

I" = 30' PROJECT ID: DET-230229

LIGHTING PLAN

DRAWING:

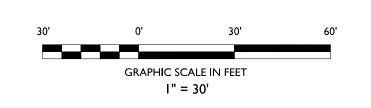
(RESIDEN	TIAL)	0.0	0.00 FC	0.0 FC					
				PROPOSED LU	JMINAIRE SCHE	DULE			
SYMBOL	LABEL	QUANTITY	SECURITY LIGHTING		DISTRIBUTION	LLF	MANUFACTURER	CONTROL	IES FILE
	A	4	MIRADA MEDIUM- MRM OUTDOOR LEE SINGLE WITH HOUSE SIDE SHIELD	D AREA LIGHT	FT	0.9	LSI INDUSTRIES	-	MRM-LED-30L-SIL-FT-40-70CRI-IL.IES
	В	6	MIRADA MEDIUM- MRM OUTDOOR LEE TWO @ 180 °	o area light	FT	0.9	LSI INDUSTRIES	-	MRM-LED-12L-SIL-FT-40-70CRI.IES
	С	I	MIRADA MEDIUM- MRM OUTDOOR LEE SINGLE WITH HOUSE SIDE SHIELD	D AREA LIGHT	FT	0.9	LSI INDUSTRIES	-	MRM-LED-12L-SIL-FT-40-70CRI-IL.IES
(I) CUT	OFF FIXTUR	ES ARE REQUIRE	D						



FIXTURES 'A', 'B', 'C'

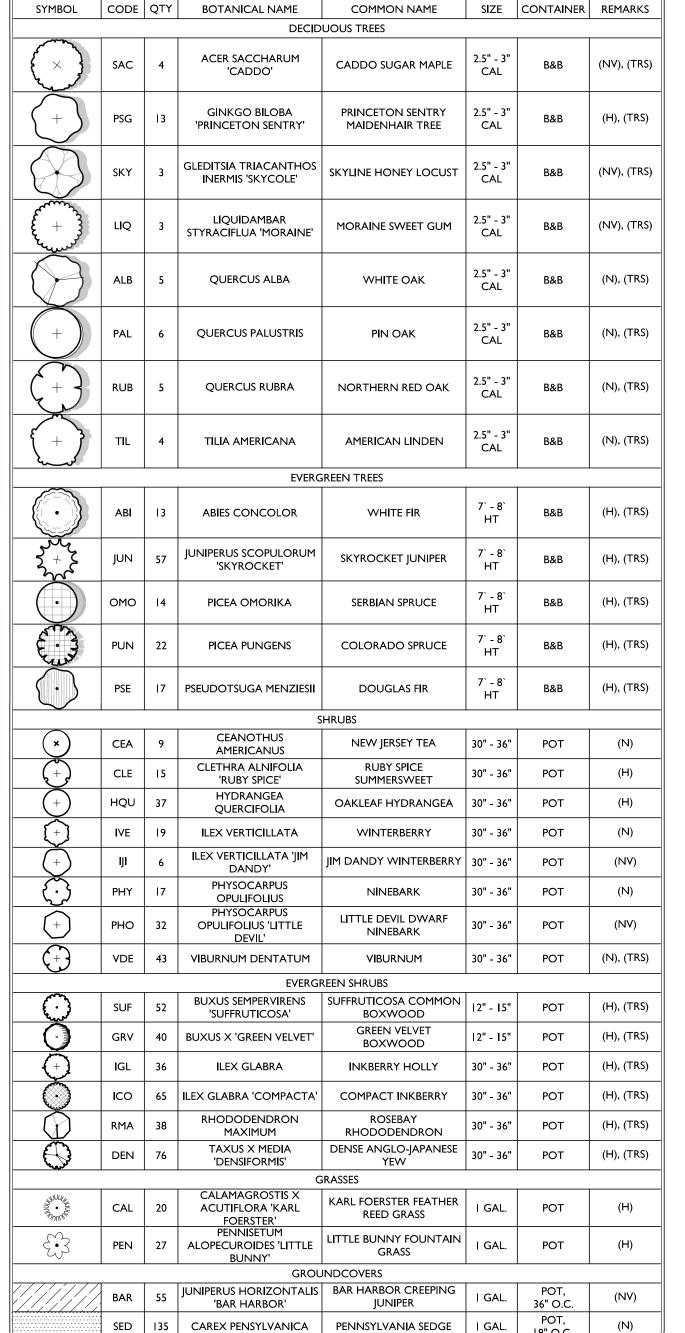
GENERAL LIGHTING NOTES

- I. THE LIGHTING LEVELS DEPICTED WITHIN THE PLAN SET ARE CALCULATED UTILIZING DATA OBTAINED FROM THE LISTED MANUFACTURER. ACTUAL ILLUMINATION LEVELS AND PERFORMANCE OF ANY PROPOSED LIGHTING FIXTURE MAY VARY DUE TO UNCONTROLLABLE VARIABLES SUCH ARE WEATHER, VOLTAGE SUPPLY, LAMP TOLERANCE, EQUIPMENT SERVICE LIFE AND OTHER
- VARIABLE FIELD CONDITIONS. 2. WHERE APPLICABLE, THE EXISTING LIGHT LEVELS DEPICTED WITHIN THE PLAN SET SHALL BE CONSIDERED APPROXIMATE. THE EXISTING LIGHT LEVELS ARE BASED ON FIELD OBSERVATIONS AND THE MANUFACTURER'S DATA OF THE ASSUMED OR MOST SIMILAR LIGHTING FIXTURE MODEL.
- 3. UNLESS NOTED ELSEWHERE WITHIN THIS PLAN SET, THE LIGHT LOSS FACTORS USED IN THE LIGHTING ANALYSIS ARE AS FOLLOWS: LIGHT EMITTING DIODES (LED): 0.90 HIGH PRESSURE SODIUM:
- METAL HALIDE: 4. THE CONTRACTOR SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. IN WRITING, PRIOR TO THE START OF CONSTRUCTION, OF ANY PROPOSED LIGHTING LOCATIONS THAT CONFLICT WITH EXISTING/ PROPOSED DRAINAGE, UTILITY, OR OTHER IMPROVEMENTS. 5. THE CONTRACTOR IS RESPONSIBLE TO PREPARE A WIRING PLAN AND
- PROVIDE ELECTRIC SERVICE TO ALL PROPOSED LIGHTING FIXTURES. THE CONTRACTOR IS REQUIRED TO PREPARE AN AS-BUILT PLAN OF WIRING AND PROVIDE COPIES TO THE OWNER AND STONEFIELD ENGINEERING & DESIGN, LLC.



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[†] 0.0	[†] 0.0	⊗ 0.0	0.0	27.4'- 0.1	0.2	3.4	[†] 8.2	6.7	3.9	\9					ME	СН				0.6) <u>.3</u>	0.4	[†] 0.8	6 [‡] 2.3	2.8	3.0	3.0	2.7 2.2	1.8		2.6	2.9 3.0	2.9 √	2.5 7.7	7 [†] 0.9	[†] 0.4	, 0. J	†0.0 [†] (0.0	0.0	0.0 20	o.o t	0.0
0.0	[†] 0.0	[†] 0.0	0.0 0.0	•	[†] 0.6	[±] 5.8	[†] 9.0	⁺ 7.4	4.7	2.8	2.0	レ 8 2	0 2.2	1 2.8	3.0		3.0 2	.6 1.9		0.5	0.3	0.3	[†] 0.7 [†] .4	4 [†] 2.1	2.8	3.0	2.9	2.4 1.8	.5 أ.5	†.7	[†] 2.1 [†] 2	2.8 3.0.	3.0	اً 1.3 أأ ولم	5 0.7	[†] 0/3		[†] 0.0	24"	0.0	[†] 0.0	.o. t	0.0
[†] 0.0	[†] 0.0	0.0	0.0 0.0	. I. O [‡]	0.3	⁺ 4.2	[‡] 7.1	[†] 7.2	5 5	4.0	3.3	3.0 2	1. †77	7 7 7	• • • • • • • • • • • • • • • • • • •	31	3.0 2	4 16	0.9	0.4	0.2	0.2	[†] 0.5	0 1.5	2.3	B	(20')] 1.9 1.5	1.2	† 3	16 -		B (20'))	2 0.7	0.3	× .	[†] 0.0	0.0	0.0	[†] 0.0	.o.o	0.0
†n n	†∩ ∩	70.0	p.o	†O I	[†] 0.2	[†] 2 2	±4.2	÷5.0	4.9	4	₹4	रा १	7 24	4 2 L	[†] 4	7 1	⁵ 7 †	9 14	- 0.8	†n 3	• 10	[†] 0.2	†0.5 Tu	0 16) 5	133		77 6	14	15	19	7 30	79	54 17	7 1.0		∫	†O I ≪\#	0.0 0.0	Φ. O. O.	√a o '	้าก ว่า	0.0
±0.0	±0.0	†n.n	0.0	†O.0	†O. I	†n q	1.2 1 o	5.0 †3.7	†	ا الحراد	5.1 ·	3.1 Z.	., z.	2.1	٠.١ ٠	± 2 2	B (20')) 1.5	1.0	†0.4	• 9 /	[†] 0.2	†0.5 T.	0 1.0		†2 Q	±, o	± 1.0	1.1	† o	†1.7 ±	۰۵ ځ ۵ م	† o		1.0		\[\begin{align*} \text{-0.2} & \text{.} \\ \text{-0.2} & \text{.} \end{align*}	† . I	12"	±0.0	†O.O	ο.ο ·	n.o
± 20.0	0.0	0.0 a #	0.0	0.0 †	· •	0.9	1.7	ż./		<u></u>	B ((20')	.I 2.0	2.0	±2.5	5.Z	3.1	1	1.0	0. 4	·0.2	0.3	†o. 7 † .		4.0	2.9	2.7	2.0 Z.Z	. 1.0	1.7	1.4 4	2.9 3.0	1.9	<i>yg</i> o 1.7	1.2	0.5	÷0.2	0.1 [0.0) 0.0	0.0	· •	0.0 t	7.0
·	, \0.0\	0.0	p.o	0.0	0.1 to .	0.4	1.0	1.7	2.2	3.0	j o .	2./ 2. + +	.2 2.3	3 2.6 - +	2.9	3.0	2. 1	/ 2.0) 1.2	0.6	0.3	0.4	0./ I +- · +-	3 1.9	2.3	2. 4	2.3	2.2 1.9	1./	1.8	1.9 4	2.0 1.9	1.8	1.6 1.4	1.0	0.5 × +, J	0.2	0.1 0.0	0.0	0.0	0.0 (0.0 (1.0
0.0	0.0	0.0	9.0 9.0	0.0	0.1	0.4	1.0	1.8	2.6	3.0	3.1	3.I 2. 	.9 2.7	7 2.5	2.5	2.5	2.3 2	l 1.7 ±	1.2	0.6	0.4	0.4	0.6 0.	9 1.1	1.2	1.2	1.2	1.2 1.2	1.2	1.2	1.1 1	.0 0.9	0.8	0.8 0.7	0.5	0.]	0.2	0.10.00	.0 0.0	0.0	0.0 (0.0 ().0
0.0	0.0	0.0	0 0 0	0.1	0.2	0.4	1.0	1.8	2.5	2.9	3.0	2.9 2.	.7 2.4	4 1.9	1.5	1.3	1.2 1.	.I 1.0	0.8	0.5	0.3	0.3	0.4 0.	5 0.5	0.5	0.4	0.4	0.5 0.5	0.6	0.6	0.5	0.4 0.3	0.3	0.3 0.3	3 0.2		0.1	0.0,2	.0 0.0	0.0	0.0	0.0).0
0.0	0.0	0.0	0.0 0.0	[†] 0.1	0.2	0.4	0.9	1.3	1.5	.6	Ì.6 Ì	Ī.6 Ī.	6 Ì.5	1.2	0.8	0.6	0.5 0).4 [†] 0.4	1 0.4	0.3	0.2 	0.2	0.2 0.	2 0.2	0.2	[†] 0. I	Ō. I	0.2	0.2	0.2	0.2).2 [†] 0.1	[†] 0. I	Ö.I Ö.	0.1		0.1 🥞	9.0 0	.0 0.0	[†] 0.0	0.0	0.0).0
0.0	0.0	0.0	0. 0	0.I	[†] 0.1	0.3	057	0.7	[†] 0.7	0.7	0.7	0.7 0.	.7 [†] 0.7	7 0.6	0.4	0.2	0.2 0	0.2 [†] 0.2	2 0.1] ō.	1.0	0. II	0.1 0.	i 10 ! ∓	0.1	0.0	0.1	0.1 0.1	0.1	[†] 0. I	[†] 0.1 [†] (0.0	[†] 0.0	0.0 0.0	1 700	0.0 ×	[†] 0.0	0.0 0	.0 0.0	⁺ 0.0 −		0.0 t).0
0.0	0.0 €	0.0	0. 0	0.5	[†] 0.1	0.1	0.2	0.3	0.3	0.2	0.2	[†] 0.3 [†] 0.	.3 0.3	3 0.2	0.2	[†] 0. I	[†] 0.I [†] 0	.I [†] 0.	I 0	ō. l	0.1	0.1	0.I [†] 0.	I [†] 0.0	[†] 0.0	[†] 0.0	0.0	0.0 [†] 0.1	[†] 0.1	0.1 	<u>0.I</u> (0.0	0.0	0.0 0.0	10"0.0	0.0	†o.o 	20 †0	.0 0.0	0.0	0.0	0.0).0
0.0	0.0	0.0	0.0 0.0	[†] 0.0	[†] 0.1	[†] 0. I	[†] 0.1	[†] 0.1	0.I	0. I	0.1	0.I <u></u> 0.	.I	<u> </u>	<u></u>	<u></u> ф₃	-`0.0 □†0	.0 □ † 0.0	0.0	0.0	0.0	0.0	0.0 0.	0.0	0.0	0.0	[†] 0.0	[†] 0.0 [†] 0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0 0.0) [†] 0.0	0.0	[†] 0.0 0. €) †0	.0 0.0	0.0	0.0	0.0).0
0.0	[†] 0.0	0.0	*0.0 ×	[†] 0.0 0	0.0	0.0	0.0	Ю. 1	0.0	0.0	0.0	[†] 0.0 [†] 0.	.I [†] 0.I	I [†] 0.I	0.0	0.0	[†] 0.0 [†] 0	0.0 0.0	0.0	[†] 0.0	0.0	0.0	[†] 0.0 [†] 0.	0.0	0.0	0.0	0.0	[†] 0.0 [†] 0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0 0.0) 0.⊗	0.0	0.0 0. 0	0.0 0	0.0	0.0	0.0	0.0).0
0.0	0.0	0.0	0.0	[†] 0.0 0	0.0	0.0	[†] o. 6	0.0	0.0	0.0	0.0	.0.0 [†] 0.0	.0 0.0	0.0	0.0	[†] 0.0	[†] 0.0 [†] 0	0.0 0.0	0.0	0.0	0.0	[†] 0.0	[†] 0.0 [†] 0.	0.0	[†] 0.0	[†] 0.0	0.0	[†] 0.0 [†] 0.0	0.0	[†] 0.0	0.0	0.0	0.0	0.0 0.0) + 0.0	0.0	0.0 †	0.0	.0 0.0	0.0	0.0	0.0).0
[†] 0.0	0.0	0.0	0.0	0.0	0.0	0.0	ზ.ძ	0.0	0.0	0.0	0.0	[†] 0.0 [†] 0.	.0 0.0	0.0 0.0	0.0	0.0	[†] 0.0 [†] 0	0.0 0.0	0.0	[†] 0.0	[†] 0.0	0.0	[†] 0.0 [†] 0.	0.0	0.0	0.0	0.0	.0.0 0.0	0.0	- 6.0	0.0	0.0	[†] 0.0	0.0 ⁺ †0.0	0.0	0.0	0.0	0.0 0	.0 [†] 0.0	0.0	0.0	0.0).0
0.0	[†] 0.0	[†] 0.0	0.0	[†] 0.0	0.0	[†] 0.0	0.0	0.0	[†] 0.0	0.0	0.0	.0.0 [†] 0.0	.0 0.0	0.0 0.0	0.0	0.0	[†] 0.0 [†] 0	0.0 0.0	0.0 0.0	0.0	0.0	[†] 0.0	[†] 0.0 [†] 0.	0.0	0.0	[†] 0.0	[†] 0.0	0.0 0.0	0.0	[†] 0.0	[†] 0.0 [†]	0.0	0.0	0.0 [†] 0.0) [†] 0.0*†	0.0 ^{0.0}	0.0 →	0.0	0.0 0.0	0.0	0.0	0.0).0
[†] 0.0	[†] 0.0	[†] 0.0	0.0	0.0	[†] 0.0	0.0	ō.o.	0.0	0.0	0.0	0.0	.0.0 [†] 0.0	.0 0.0	0.0	[†] 0.0	0.0	[†] 0.0 [†] 0	0.0 0.0	0.0	0.0	[†] 0.0	[†] 0.0	[†] 0.0 [†] 0.	0.0	[†] 0.0	0.0	0.0	.0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	†o.o [†]	0.0	0.0 0.0	[†] 0.0	0.0	0.0).0
0.0	0.0	[†] 0.0	0.0	.o †o.o	0.0	0.0	0.0 }	0.0	0.0	0.0	0.0	0.0 0.	.0 0.0	0.0	0.0	0.0	[†] 0.0 [†] 0	0.0 0.0	0.0	0.0	[†] 0.0	[†] 0.0	[†] 0.0 [†] 0.	0.0	0.0	0.0	00	.0.0 [†] 0.0	0.0	0.0	0.0 to	0.0 0.0	0.00	0.0 _{0.0}	0.0 ([†] 0.0	0.0	[†] 0.0 [†] 0	ı.0 [†] 0.0	0:0	0.0	0.0).0
[†] 0.0	[†] 0.0	[†] 0.0	ф.o	0.0	[†] 0.0 ¹⁵	" [†] 0.0	0.0	[†] 0.0	0.0	0.0	0.0	[†] 0.0 [†] 0.	.0 0.0	0.0 0.0	[†] 0.0	0.0	[†] 0.0 [†] 0	0.0 0.0	0.0	[†] 0.0	0.0	[†] 0.0	[†] 0.0 [†] 0.	0 00	0.0	[†] 0.0	[†] 0.0	.0.0 [†] 0.0	†0.0°	→ †0.0	[†] 0.0 [†] 0	0.0	.0.0 to.0	0.0 0.0	0.0 ([†] 0.0	[†] 0.0	[†] 0.0 [†] C	0.0	0.0	0.0	0.0	0.0
0.0	0.0	[†] 0.0	€.0.5	>e 0.0	0.0	[†] 0.0 3	.o.ē	0.0	0.0	0.0	0.0	.0.0 O.	.0 0.0	0.0 0.0	[†] 0.0	[†] 0.0	[†] 0.0 [†] 0	.0 0.0	0.0 0.0	0.0	[†] 0.0	[†] 0.0	0.00.	0.0 0 0.0	[†] 0.0	0.0	0.0	0.0 + 0.0	0.0	[†] 0.0	0.0 0. 0	10.0 10.0	0.0	0.0 0.0	0.0	[†] 0.0	[†] 0.0	[†] 0.0 [†] C	0.0	0.0	[†] 0.0	0.0	2.0
[†] 0.0	0.0	0.0	[†] 0.0⊕	0.0 0.0	[†] 0.0	0.0	±0.0 d	[†] 0.0	[†] 0.0	0.0	.0.0 t	0.0 [†] 0.	.0 0.0	0.0	0.0	0.0	[†] 0.0 [†] 0	.0 0.0	0.0	س ان). وأ سس	0.0	[†] 0.0	[†] 0.0 [†] 0.	0.0	[†] 0.0	[†] 0.0	†00 +	.0.0 [†] 0.0	0.0	00	0.0	0.0 ±0.0	[†] 0.0	0.0 0.0) [†] 0.0	[†] 0.0	[†] 0.0	[†] 0.0 [†] C	i.0 [†] 0.0	0.0	[†] 0.0	0.0	0.0
0.0	[†] 0.0	[†] 0.0	o.o ∃	p.o 0.0	[†] 0.0	0.0	ō.o	0.0	0.0	0.0	0.0	0.0 0.	.0 0.0	0.0	0.0	[†] 0.0	†o.o	0.0	0.0	0.0	[†] 0.0	[†] 0.0	[†] 0.0 [†] 0.	0.0	[†] 0.0	0.0	0.0	to.o to.o	0.0) 120.0	[†] 0.0 [†]	0.0 0.0	[†] 0.0	0.0 0.0	0.0	[†] 0.0	[†] 0.0	[†] 0.0 [†]	0.0 0.0	[†] 0.0	÷0.0	0.0).0
0.0	[†] 0.0	[†] 0.0	[†] 0.0	6.0 0.0	[†] 0.0	0.0	ō.o	0.0	0.0	0.0	.0.0 to	[†] 0.0 [†] 0.	.0 0.0	0.0	[†] 0.0	[†] 0.0	† 0 0 †0	0.0 0.0	0.0	[†] 0.0	[†] 0.0	[†] 0.0	[†] 0.0 [†] 0.	0 0.0	0.0	[†] 0.0	0.0	0.0	2" 0.0	[†] 0.0	[†] 0.0 [†] 0	0.0 0.0	0.0	0.0 0.0	0.0 €	`\ [†] 0.0	[†] 0.0	[†] 0.0 [†] C	0.0 0.0	0.0	[†] 0.0	0.0	0.0
		I		0.0			1	Ţ									/									-5	W 13	.u	' /				[†] 0.0			\							
		1	0	0.0												/							+			0.0				`\			0.0				`\						
///	' ' '	, / /		0.0				1								/						• ''		4						\			[†] 0.0				,	\					
		\		700																_				/							1		[†] 0.0					`					
10.61	10.61	1/2/6	0.0	0.0	0.0	0.0	0.0	7	0.0	5.0	J.J (J.U U.	0.0	0.0	8.0	0.0	0.0 0	0.0		0.0	0.0	0.0	ő.ŏ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	υ.α (,.0 0.0	0.0	U.U	0.0	0.0	0.0	0.0 0	.0.0	0.0	0.0 (0.0	,. .





PLANT SCHEDULE

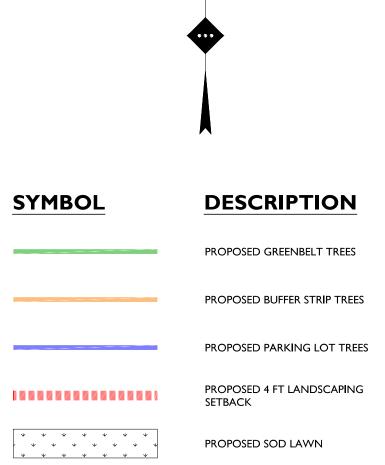
(NV) NATIVE (VARIETY) HARDY TO REGION (ZONE 6)

NOTE: IF ANY DISCREPANCIES OCCUR BETWEEN AMOUNTS SHOWN ON THE LANDSCAPE PLAN AND WITHIN THE PLANT LIST,

			ı	LAN	DSC	APE	MAINTENA	NC	E SC	CHE	DULE				
MAINITENIANICE TASK	٧	VINTE	R			SPR	ING			SUM	MER			FA	LL
MAINTENANCE TASK	DEC	JAN	FEB	MAR	APR	MAY	FREQUENCY	JUN	JUL	AUG	FREQUENCY	SEP	ОСТ	NOV	FREQUENCY
SITE INSPECTION				X			ONCE PER SEASON		X		ONCE PER SEASON	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		X	ONCE PER SEASON
DEBRIS & WEED CONTROL				X	X	X	BI-WEEKLY	Х	X	Х	BI-WEEKLY	X	X		BI-WEEKLY
IRRIGATION MAINTENANCE					X		ONCE PER SEASON				N/A		X		ONCE PER SEASON
MULCHING					X		ONCE PER SEASON				N/A				N/A
SEASONAL PLANTINGS						X	ONCE PER SEASON	Х	X	Х	WEEKLY	X	X	X	WEEKLY
MOWING OF LAWN				Х	X	X	WEEKLY	Х	X	X	WEEKLY	X	X	X	WEEKLY
PRUNING				X	X		MONTHLY				N/A			X	ONCE PER SEASON
FERTILIZER & AMENDMENTS				X	X	X	MONTHLY	Х	X	X	BI-WEEKLY	X	X	X	BI-WEEKLY
INSECT & DISEASE CONTROL						X	ONCE PER SEASON	Х	X	X	BI-WEEKLY	X	X		N/A
PLANTING RENOVATION				X			ONCE PER SEASON				N/A		X		ONCE PER SEASON
LIGHTING MAINTENANCE				X			ONCE PER SEASON				N/A		X		ONCE PER SEASON
PAVED SURFACE MAINTENANCE					Х		ONCE PER SEASON				N/A				N/A



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



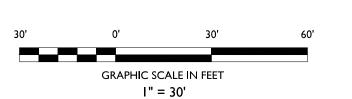
L	ANDSCAPING AND BUFFER REQUIREM	ENTS
CODE SECTION	REQUIRED	PROPOSED
	BUFFER STRIP STANDARDS (EAST PROPERTY LINE)	
§ 5.19.C.i.	MINIMUM WIDTH: 20 FT	30.0 FT
TABLE 5.19	5 FT HIGH VISUAL BARRIER REQUIRED	COMPLIES
	I DECIDUOUS/EVERGREEN TREE & 4 SHRUBS FOR EVERY 15 LF	
	EAST: 836 FT	
	(836 FT) * (I TREE / I5 LF) = 56 TREES	7 EXISTING TREES 49 PROPOSED TREES
	(836 FT) * (4 SHRUBS / 15 LF) = 223 SHRUBS	223 SHRUBS
	FENCE STANDARDS	
	MINIMUM HEIGHT: 6-8 FT	8 FT
	GREENBELT STANDARDS (HIGHLAND ROAD)	
	MINIMUM WIDTH: 20 FT	25.4 FT
	I DECIDUOUS/EVERGREEN TREE & 8 SHRUBS FOR EVERY 30 LF	
	HIGHLAND ROAD: 400 FT	
	(400 FT) * (1 TREE / 30 LF) = 14 TREES	14 TREES
	(400 FT) * (8 SHRUBS / 30 LF) = 107 SHRUBS	107 SHRUBS
	REQUIRED SCREENING	
§ 5.19.D.i.	RB ZONE TO RI-C: BUFFER STRIP & FENCE REQUIRED	COMPLIES
TABLE 5.19.D	RB ZONE TO R.O.W.: GREENBELT REQUIRED	COMPLIES
	INTERIOR LOT LANDSCAPING	
§ 5.19.E.	MINIMUM LOT AREA LANDSCAPING: 15%	
	(195,568 SF) * (0.15)= 29,335 SF	105,080 SF (54%)
	I TREE & 5 SHRUBS PER 300 SF OF REQUIRED LANDSCAPING	
	(29,335 SF) * (I TREE / 300 SF) = 97 TREES	14 EXISTING TREES 83 PROPOSED TREES
	(29,335 SF) * (5 SHRUBS / 300 SF) = 489 SHRUBS	489 SHRUBS
§ 5.19.G.ii	PARKING LOT LANDSCAPING	
	20 SF OF LANDSCAPING PER PARKING SPACE	
	(119 SPACES) * (20 SF / 1 SPACE) = 2,380 SF	4,879 SF
	I TREE & 3 SHRUBS PER 100 SF OF REQUIRED LANDSCAPING	
	(2,380 SF) * (I TREE / IOO SF) = 24 TREES	24 TREES
	(2,380 SF) * (3 SHRUBS / 100 SF) = 71 SHRUBS	72 SHRUBS
	MINIMUM AREA (CONTAINING TREES): 50 SF	COMPLIES
	MINIMUM WIDTH (CONTAINING TREES): 5 FT	COMPLIES

IRRIGATION NOTE:

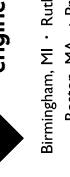
IRRIGATION CONTRACTOR TO PROVIDE A DESIGN FOR AN IRRIGATION SYSTEM SEPARATING PLANTING BEDS FROM LAWN AREA. PRIOR TO CONSTRUCTION, DESIGN IS TO BE SUBMITTED TO THE PROJECT LANDSCAPE DESIGNER FOR REVIEW AND APPROVAL. WHERE POSSIBLE, DRIP IRRIGATION AND OTHER WATER CONSERVATION TECHNIQUES SUCH AS RAIN SENSORS SHALL BE IMPLEMENTED. CONTRACTOR TO VERIFY MAXIMUM ON SITE DYNAMIC WATER PRESSURE AVAILABLE MEASURED IN PSI. PRESSURE REDUCING DEVICES OR BOOSTER PUMPS SHALL BE PROVIDED TO MEET SYSTEM PRESSURE REQUIREMENTS. DESIGN TO SHOW ALL VALVES, PIPING, HEADS, BACKFLOW PREVENTION, METERS, CONTROLLERS, AND SLEEVES WITHIN HARDSCAPE AREAS.

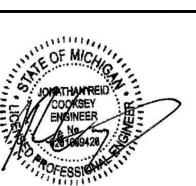
LANDSCAPING NOTES

- I. THE CONTRACTOR SHALL RESTORE ALL DISTURBED GRASS AND LANDSCAPED AREAS TO MATCH EXISTING CONDITIONS UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET.
- 2. THE CONTRACTOR SHALL RESTORE ALL DISTURBED LAWN AREAS WITH A MINIMUM 4 INCH LAYER OF TOPSOIL AND SEED. 3. THE CONTRACTOR SHALL RESTORE MULCH AREAS WITH A MINIMUM 3 INCH LAYER OF MULCH.
- THE MAXIMUM SLOPE ALLOWABLE IN LANDSCAPE RESTORATION AREAS SHALL BE 3 FEET HORIZONTAL TO I FOOT VERTICAL (3:1 SLOPE) UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET. 5. THE CONTRACTOR IS REQUIRED TO LOCATE ALL SPRINKLER HEADS IN AREA OF LANDSCAPING DISTURBANCE PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL RELOCATE SPRINKLER HEADS AND LINES IN ACCORDANCE WITH OWNER'S DIRECTION
- WITHIN AREAS OF DISTURBANCE. 6. THE CONTRACTOR SHALL ENSURE THAT ALL DISTURBED LANDSCAPED AREAS ARE GRADED TO MEET FLUSH AT THE ELEVATION OF WALKWAYS AND TOP OF CURB ELEVATIONS EXCEPT UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET. NO ABRUPT CHANGES IN GRADE ARE PERMITTED IN DISTURBED LANDSCAPING



DESCRIPTION	ВУ	DATE	ISSUE	
SUBMISSION FOR REZONING	JRC/JP	11/29/2023 JRC/JP		
FOR PRELIMINARY MDOT REVIEW	EM	04/15/2024	2	
SUBMISSION FOR REVISED REZONING REQUE	JRC/JP	04/22/2024 JRC/JP	3	
FOR SITE PLAN REVIEW	ЕМ/ЈР	07/22/2024	4	
REVISED PER PRELIMINARY SITE PLAN REVIEV	ЕМ	10/17/2024	2	
REVISED FOR PRELIMINARY SITE PLAN APPRO	E	12/20/2024	9	
SUBMISSION FOR FINAL SITE PLAN APPROVA	EM	03/07/2025	7	
REVISED PER FSP REVIEW #I	EM	06/19/2025	8	
REVISED PER FSP REVIEW #2	E	08/12/2025	6	





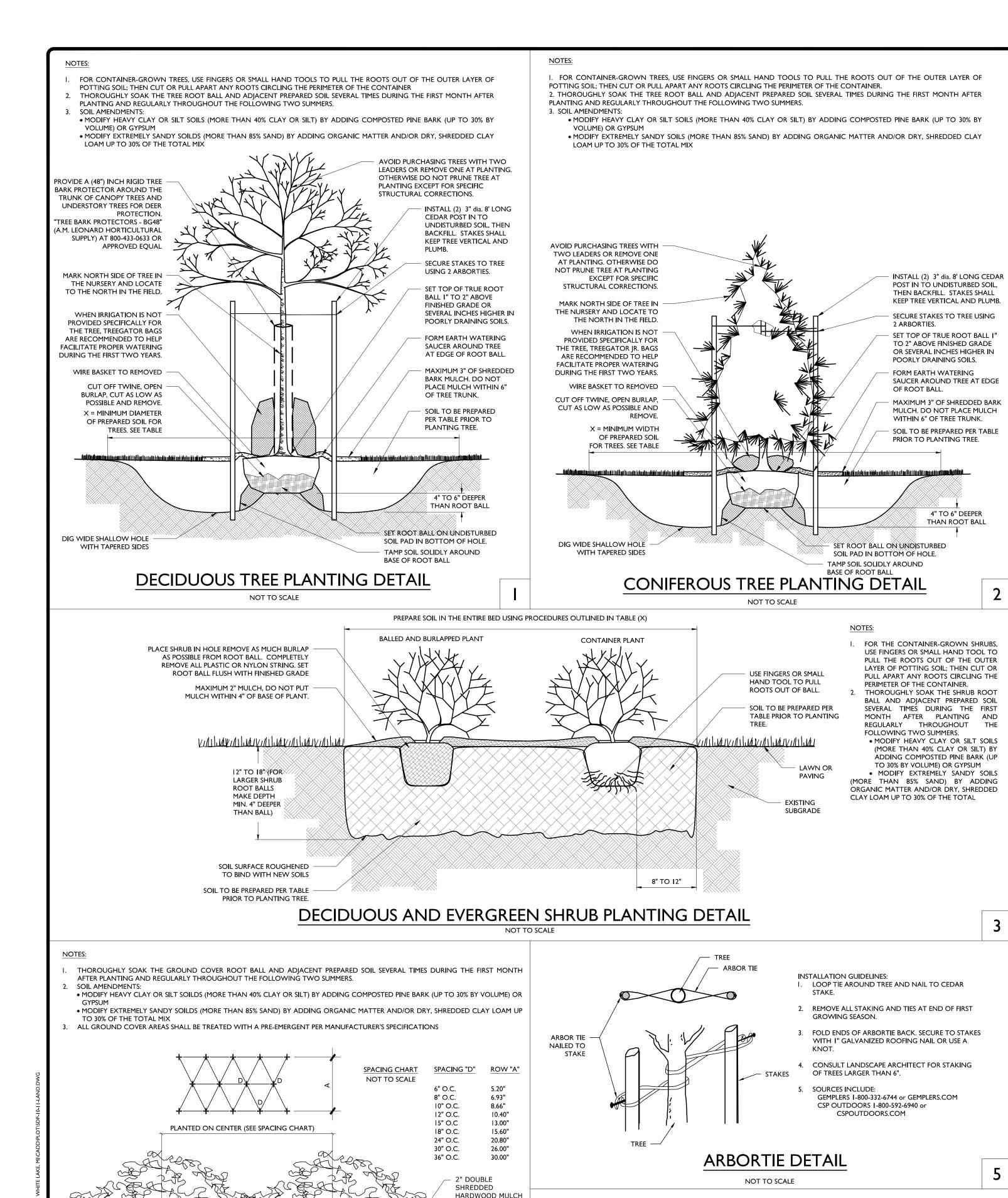


I" = 30' PROJECT ID: DET-230229

LANDSCAPING PLAN

DRAWING:

0



(DO NOT PLACE MULCH AGAINST THE BASE OF THE

GENTLY PULL ROOTS AWAY FROM TOPSOIL MASS WITH

1 PART SOIL AMENDMENT

(BASED ON SOIL TEST)

3 PARTS NATIVE TOPSOIL

FINGERS

GROUND COVER/PERENNIAL/ANNUAL

PLANTING DETAIL

BACKFILL SOIL

GENERAL LANDSCAPING NOTES

- I. THE LANDSCAPE CONTRACTOR SHALL FURNISH ALL MATERIALS AND PERFORM ALL WORK IN ACCORDANCE WITH THESE I. ALL PLANT MATERIAL SHALL CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.I-2004) OR LATEST SPECIFICATIONS, APPROVED OR FINAL DRAWINGS, AND INSTRUCTIONS PROVIDED BY THE PROJECT LANDSCAPE DESIGNER, MUNICIPAL OFFICIALS, OR OWNER/OWNER'S REPRESENTATIVE. ALL WORK COMPLETED AND MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH THE INTENTION OF THE SPECIFICATIONS, DRAWINGS, AND
- INSTRUCTIONS AND EXECUTED WITH THE STANDARD LEVEL OF CARE FOR THE LANDSCAPE INDUSTRY. . WORK MUST BE CARRIED OUT ONLY DURING WEATHER CONDITIONS FAVORABLE TO LANDSCAPE CONSTRUCTION AND TO THE HEALTH AND WELFARE OF PLANTS. THE SUITABILITY OF SUCH WEATHER CONDITIONS SHALL BE DETERMINED BY THE
- PROJECT LANDSCAPE DESIGNER OR GOVERNING MUNICIPAL OFFICIAL. 3. IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR, BEFORE ORDERING OR PURCHASING MATERIALS, TO PROVIDE SAMPLES OF THOSE MATERIALS TO THE PROJECT LANDSCAPE DESIGNER OR GOVERNING MUNICIPAL OFFICIAL FOR APPROVAL,
- IF SO REQUESTED. 4. IF SAMPLES ARE REQUESTED, THE LANDSCAPE CONTRACTOR IS TO SUBMIT CERTIFICATION TAGS FROM TREES, SHRUBS AND
- SEED VERIFYING TYPE AND PURITY. 5. UNLESS OTHERWISE AUTHORIZED BY THE PROJECT LANDSCAPE DESIGNER OR GOVERNING MUNICIPAL OFFICIAL, THE LANDSCAPE CONTRACTOR SHALL PROVIDE NOTICE AT LEAST FORTY-EIGHT HOURS (48 HRS.) IN ADVANCE OF THE ANTICIPATED DELIVERY DATE OF ANY PLANT MATERIALS TO THE PROJECT SITE. A LEGIBLE COPY OF THE INVOICE, SHOWING
- DESIGNER, OR GOVERNING MUNICIPAL OFFICIAL 6. THE PROJECT LANDSCAPE DESIGNER OR GOVERNING MUNICIPAL OFFICIAL RESERVES THE RIGHT TO INSPECT AND REJECT PLANTS AT ANY TIME AND AT ANY PLACE.

PROTECTION OF EXISTING VEGETATION NOTES

- BEFORE COMMENCING WORK, ALL EXISTING VEGETATION WHICH COULD BE IMPACTED AS A RESULT OF THE PROPOSED CONSTRUCTION ACTIVITIES MUST BE PROTECTED FROM DAMAGE BY THE INSTALLATION OF TREE PROTECTION FENCING. FENCING SHALL BE LOCATED AT THE DRIP-LINE OR LIMIT OF DISTURBANCE AS DEPICTED WITHIN THE APPROVED OR FINAL PLAN SET, ESTABLISHING THE TREE PROTECTION ZONE. FENCE INSTALLATION SHALL BE IN ACCORDANCE WITH THE PROVIDED "TREE PROTECTION FENCE DETAIL." NO WORK MAY BEGIN UNTIL THIS REQUIREMENT IS FULFILLED. THE FENCING SHALL BE INSPECTED REGULARLY BY THE LANDSCAPE CONTRACTOR AND MAINTAINED UNTIL ALL CONSTRUCTION
- 9. ALL PLANT MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE CORRESPONDING LANDSCAPE PLAN AND PLANTING IN ORDER TO AVOID DAMAGE TO ROOTS, BARK OR LOWER BRANCHES, NO VEHICLE, EQUIPMENT, DEBRIS, OR OTHER MATERIALS SHALL BE DRIVEN, PARKED OR PLACED WITHIN THE TREE PROTECTION ZONE. ALL ON-SITE CONTRACTORS SHALL USE ANY AND ALL PRECAUTIONARY MEASURES WHEN PERFORMING WORK AROUND TREES, WALKS, PAVEMENTS, UTILITIES, AND ANY OTHER FEATURES EITHER EXISTING OR PREVIOUSLY INSTALLED UNDER THIS CONTRACT 3. IN RARE INSTANCES WHERE EXCAVATING, FILL, OR GRADING IS REQUIRED WITHIN THE DRIP-LINE OF TREES TO REMAIN, THE
- WORK SHALL BE PERFORMED AS FOLLOWS: • TRENCHING: WHEN TRENCHING OCCURS AROUND TREES TO REMAIN, THE TREE ROOTS SHALL NOT BE CUT. BUT THE TRENCH SHALL BE TUNNELED UNDER OR AROUND THE ROOTS BY CAREFUL HAND DIGGING AND WITHOUT INJURY TO THE ROOTS. NO ROOTS, LIMBS, OR WOODS ARE TO HAVE ANY PAINT OR MATERIAL APPLIED TO ANY SURFACE.
- RAISING GRADES: WHEN THE GRADE AT AN EXISTING TREE IS BELOW THE NEW FINISHED GRADE. AND FILL NOT EXCEEDING 6 INCHES (6") IS REQUIRED, CLEAN, WASHED GRAVEL FROM ONE TO TWO INCHES (I" - 2") IN SIZE SHALL BE PLACED DIRECTLY AROUND THE TREE TRUNK. THE GRAVEL SHALL EXTEND OUT FROM THE TRUNK ON ALL SIDES A MINIMUM OF 18 INCHES (18") AND FINISH APPROXIMATELY TWO INCHES (2") ABOVE THE FINISH GRADE AT TREE. INSTALL GRAVEL BEFORE ANY EARTH FILL IS PLACED. NEW EARTH FILL SHALL NOT BE LEFT IN CONTACT WITH THE TRUNK OF ANY TREE REQUIRING FILL. WHERE FILL EXCEEDING 6 INCHES (6") IS REQUIRED, A DRY LAID TREE WELL SHALL BE CONSTRUCTED. IF APPLICABLE, TREE WELL INSTALLATION SHALL BE IN ACCORDANCE WITH THE PROVIDED "TREE WELL DETAIL."
- LOWERING GRADES: EXISTING TREES LOCATED IN AREAS WHERE THE NEW FINISHED GRADE IS TO BE LOWERED, SHALL HAVE RE-GRADING WORK DONE BY HAND TO THE INDICATED ELEVATION, NO GREATER THAN SIX INCHES (6"). ROOTS SHALL BE CUT CLEANLY THREE INCHES (3") BELOW FINISHED GRADE UNDER THE DIRECTION OF A LICENSED ARBORIST WHERE CUT EXCEEDING 6 INCHES (6") IS REQUIRED, A DRY LAID RETAINING WALL SHALL BE CONSTRUCTED. IF APPLICABLE, THE RETAINING WALL INSTALLATION SHALL BE IN ACCORDANCE WITH THE PROVIDED "TREE RETAINING WALL DETAIL."

SOIL PREPARATION AND MULCH NOTES:

- I. LANDSCAPE CONTRACTOR SHALL OBTAIN A SOIL TEST OF THE IN-SITU TOPSOIL BY A CERTIFIED SOIL LABORATORY PRIOR TO PLANTING. LANDSCAPE CONTRACTOR SHALL ALLOW FOR A TWO WEEK TURNAROUND TIME FROM SUBMITTAL OF SAMPLE TO NOTIFICATION OF RESULTS
- 2. BASED ON SOIL TEST RESULTS, ADJUST THE RATES OF LIME AND FERTILIZER THAT SHALL BE MIXED INTO THE TOP SIX INCHES (6") OF TOPSOIL. THE LIME AND FERTILIZER RATES PROVIDED WITHIN THE "SEED SPECIFICATION" OR "SOD SPECIFICATION" IS APPROXIMATE AND FOR BIDDING PURPOSES ONLY. IF ADDITIONAL AMENDMENTS ARE NECESSARY, ADJUST THE TOPSOIL AS
- MODIFY HEAVY CLAY OR SILT SOILS (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) OR GYPSUM. • MODIFY EXTREMELY SANDY SOILS (MORE THAN 85%) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM
- UP TO 30% OF THE TOTAL MIX. TOPSOIL SHALL BE FERTILE, FRIABLE, NATURAL TOPSOIL OF LOAMING CHARACTER, WITHOUT ADMIXTURE OF SUBSOIL MATERIAL OBTAINED FROM A WELL-DRAINED ARABLE SITE, FREE FROM ALL CLAY, LUMPS, COARSE SANDS, STONES, PLANTS,
- ROOTS, STICKS, AND OTHER FOREIGN MATERIAL GREATER THAN ONE INCH (I"). 4. TOPSOIL SHALL HAVE A PH RANGE OF 5.0-7.0 AND SHALL NOT CONTAIN LESS THAN 6% ORGANIC MATTER BY WEIGHT 5. OBTAIN TOPSOIL ONLY FROM LOCAL SOURCES OR FROM AREAS HAVING SIMILAR SOIL CHARACTERISTICS TO THAT FOUND AT
- THE PROIECT SITE. 5. CONTRACTOR SHALL PROVIDE A SIX INCH (6") DEEP LAYER OF TOPSOIL IN ALL PLANTING AREAS. TOPSOIL SHALL BE SPREAD OVER A PREPARED SURFACE IN A UNIFORM LAYER TO ACHIEVE THE DESIRED COMPACTED THICKNESS. THE SPREADING OF TOPSOIL SHALL NOT BE CONDUCTED UNDER MUDDY OR FROZEN SOIL CONDITIONS.
- UNLESS OTHERWISE NOTED IN THE CONTRACT, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF TOPSOIL AND THE ESTABLISHMENT OF FINE-GRADING WITHIN THE DISTURBED AREA OF THE SITE. LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE SUB-GRADE ELEVATION MEETS THE FINISHED GRADE ELEVATION (LES REOUIRED TOPSOIL). IN ACCORDANCE WITH THE APPROVED OR FINAL GRADING PLAN.
- 9. ALL LAWN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN AND UNIFORM PLANE WITH NO ABRUPT CHANGE OF SURFACE AS DEPICTED WITHIN THE APPROVED OR FINAL CONSTRUCTION SET UNLESS OTHERWISE DIRECTED BY THE PROIECT LANDSCAPE DESIGNER OR MUNICIPAL OFFICIAL IO. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER SURFACE AND SUBSURFACE PLANT BED DRAINAGE PRIOR TO THE
- INSTALLATION OF PLANTINGS. IF POOR DRAINAGE CONDITIONS EXIST, CORRECTIVE ACTION SHALL BE TAKEN PRIOR TO INSTALLATION. ALL PLANTING AND LAWN AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW A FREE FLOW OF SURFACE
- II. DOUBLE SHREDDED HARDWOOD MULCH OR APPROVED EQUAL SHALL BE USED AS A THREE INCH (3") TOP DRESSING IN ALL SHRUB PLANTING BEDS AND AROUND ALL TREES PLANTED BY LANDSCAPE CONTRACTOR. GROUND COVER, PERENNIAL, AND ANNUAL PLANTING BEDS SHALL BE MULCHED WITH A TWO INCH (2") TOP DRESSING. SINGLE TREES OR SHRUBS SHALL BE MULCHED TO AVOID CONTACT WITH TRUNK OR PLANT STEM. MULCH SHALL BE OF SUFFICIENT CHARACTER AS NOT TO BE EASILY DISPLACED BY WIND OR WATER RUNOFF
- 13. SOIL SHALL BE LOOSENED WITH A BACKHOE OR OTHER LARGE COARSE-TILING EQUIPMENT UNLESS THE SOIL IS FROZEN OR EXCESSIVELY WET. TILING THAT PRODUCES LARGE, COARSE CHUNKS OF SOIL IS PREFERABLE TO TILING THAT RESULTS IN FINE GRAINS UNIFORM IN TEXTURE. AFTER THE AREA IS LOOSENED IT SHALL NOT BE DRIVEN OVER BY ANY VEHICLE

2. WHENEVER POSSIBLE, THE SOIL PREPARATION AREA SHALL BE CONNECTED FROM PLANTING TO PLANTING.

- 14. APPLY PRE-EMERGENT WEED CONTROL TO ALL PLANT BEDS PRIOR TO MULCHING. ENSURE COMPATIBILITY BETWEEN PRODUCT AND PLANT MATERIAL I5. ALL PLANTING SOIL SHALL BE AMENDED WITH THE FOLLOWING
- MYCRO® TREE SAVER A DRY GRANULAR MYCORRHIZAL FUNGI INOCULANT THAT IS MIXED IN THE BACKFILL WHEN PLANTING TREES AND SHRUBS. IT CONTAINS SPORES OF BOTH ECTOMYCORRHIZAL AND VA MYCORRHIZAL FUNGI (VAM), BENEFICIAL RHIZOSPHERE BACTERIA. TERRA-SORB SUPERABSORBENT HYDROGEL TO REDUCE WATER LEACHING. AND SELECTED ORGANIC MICROBIAL NUTRIENTS
- DIRECTIONS FOR USE: USE 3-OZ PER EACH FOOT DIAMETER OF THE ROOT BALL, OR 3-OZ PER INCH CALIPER. MIX INTO THE BACKFILL WHEN TRANSPLANTING TREES AND SHRUBS. MIX PRODUCT IN A RING-SHAPED VOLUME OF SOIL AROUND THE UPPER PORTION OF THE ROOT BALL, EXTENDING FROM THE SOIL SURFACE TO A DEPTH OF ABOUT 8 INCHES, AND EXTENDING OUT FROM THE ROOT BALL ABOUT 8 INCHES INTO THE BACKFILL. APPLY WATER TO SOIL SATURATION. MYCOR® TREE SAVER® IS EFFECTIVE FOR ALL TREE AND SHRUB SPECIES EXCEPT RHODODENDRONS, AZALEAS, AND MOUNTAIN LAUREL, WHICH REQUIRE ERICOID MYCORRHIZAE.
- SOIL PH: THE FUNGI IN THIS PRODUCT WERE CHOSEN BASED ON THEIR ABILITY TO SURVIVE AND COLONIZE PLANT ROOTS IN A PH RANGE OF 3 TO 9.
- FUNGICIDES: THE USE OF CERTAIN FUNGICIDES CAN HAVE A DETRIMENTAL EFFECT ON THE INOCULATION PROGRAM. SOIL APPLICATION OF ANY FUNGICIDE IS NOT RECOMMENDED FOR TWO WEEKS AFTER APPLICATION. OTHER PESTICIDES: HERBICIDES AND INSECTICIDES DO NOT NORMALLY INTERFERE WITH MYCORRHIZAL FUNGAL DEVELOPMENT, BUT MAY INHIBIT THE GROWTH OF SOME TREE AND SHRUB SPECIES IF NOT USED PROPERLY.
- FERTILIZER TABLETS ARE PLACED IN THE UPPER 4 INCHES OF BACKFILL SOIL WHEN PLANTING TREES AND SHRUBS. • TABLETS ARE FORMULATED FOR LONG-TERM RELEASE BY SLOW BIODEGRADATION, AND LAST UP TO 2 YEARS AFTER
- PLANTING. TABLETS CONTAIN 12-8-8 NPK FERTILIZER, AS WELL AS A MINIMUM OF SEVEN PERCENT (7%) HUMIC ACID BY WEIGHT, MICROBIAL NUTRIENTS DERIVED FROM SEA KELP, PROTEIN BYPRODUCTS, AND YUCCA SCHIDIGERA, AND A COMPLEMENT OF BENEFICIAL RHIZOSPHERE BACTERIA. THE STANDARD 21 GRAM TABLET IS SPECIFIED HERE. DIRECTIONS FOR USE: FOR PLANTING BALLED & BURLAPPED (B&B) TREES AND SHRUBS, MEASURE THE THICKNESS OF THE TRUNK, AND USE ABOUT | TABLET (21-G) PER HALF-INCH. PLACE THE TABLETS DIRECTLY NEXT TO THE ROOT BALL, EVENLY DISTRIBUTED AROUND ITS PERIMETER, AT A DEPTH OF ABOUT 4 INCHES.

	IRRIGATION DURING ESTABLIS	SHMENT
SIZE AT PLANTING	IRRIGATION FOR VITALITY	IRRIGATION FOR SURVIVAL
< 2" CALIPER	DAILY FOR TWO WEEKS, EVERY OTHER DAY FOR TWO MONTHS, WEEKLY UNTIL ESTABLISHED	TWO TO THREE TIMES WEEKLY FOR TWO TO THREE MONTHS
2"-4 CALIPER	DAILY FOR ONE MONTH, EVERY OTHER DAY FOR THREE MONTHS, WEEKLY UNTIL ESTABLISHED	TWO TO THREE TIMES WEEKLY FOR THREE TO FOUR MONTHS
4 >" CALIPER	DAILY FOR SIX WEEKS, EVERY OTHER DAY FOR FIVE MONTHS, WEEKLY UNTIL ESTABLISHED	TWICE WEEKLY FOR FOUR TO FIVE MONTHS

. AT EACH IRRIGATION, APPLY TWO TO THREE GALLONS PER INCH TRUNK CALIPER TO THE ROOT BALL SURFACE. APPLY IT IN A MANNER SO ALL WATER SOAKS THE ENTIRE ROOT BALL. DO NOT WATER IF ROOT BALL IS WET/SATURATED ON THE IRRIGATION DAY.

2. WHEN IRRIGATING FOR VITALITY, DELETE DAILY IRRIGATION WHEN PLANTING IN WINTER OR WHEN PLANTING IN COOL CLIMATES. ESTABLISHMENT TAKES THREE TO FOUR MONTHS PER INCH TRUNK CALIPER. NEVER APPLY IRRIGATION IF THE SOIL IS SATURATED.

3. WHEN IRRIGATION FOR SURVIVAL, TREES TAKE MUCH LONGER TO ESTABLISH THAN REGULARLY IRRIGATED TREES. IRRIGATION MAY BE REQUIRED IN THE NORMAL HOT, DRY PORTIONS OF THE FOLLOWING YEAR.

PLANT QUALITY AND HANDLING NOTE:

- REVISION AS PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION.
- 2. IN ALL CASES, BOTANICAL NAMES LISTED WITHIN THE APPROVED OR FINAL PLANT LIST SHALL TAKE PRECEDENCE OVER COMMON NAMES. 3. ALL PLANTS SHALL BE OF SELECTED SPECIMEN QUALITY, EXCEPTIONALLY HEAVY, TIGHTLY KNIT, SO TRAINED OR FAVORED IN
- THEIR DEVELOPMENT AND APPEARANCE AS TO BE SUPERIOR IN FORM, NUMBER OF BRANCHES, COMPACTNESS AND SYMMETRY. ALL PLANTS SHALL HAVE A NORMAL HABIT OR SOUND. HEALTHY, VIGOROUS PLANTS WITH WELL DEVELOPED ROOT SYSTEM. PLANTS SHALL BE FREE OF DISEASE, INSECT PESTS, EGGS OR LARVAE
- 4. PLANTS SHALL NOT BE PRUNED BEFORE DELIVERY. TREES WITH ABRASION OF THE BARK, SUNSCALDS, DISFIGURING KNOTS OR
- FRESH CUTS OF LIMBS OVER ONE AND ONE-FOURTH INCHES (I-1/4") WHICH HAVE NOT COMPLETELY CALLOUSED SHALL BE
- 5. ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY AND SHALL HAVE A NORMAL HABIT OF GROWTH AND BE LEGIBLY TAGGED WITH THE PROPER NAME AND SIZE. 6. THE ROOT SYSTEM OF EACH PLANT SHALL BE WELL PROVIDED WITH FIBROUS ROOTS. ALL PARTS SHALL BE SOUND, HEALTHY,
- VIGOROUS WELL-BRANCHED AND DENSELY FOLIATED WHEN IN LEAF 7. ALL PLANTS DESIGNATED BALL AND BURLAP (B&B) MUST BE MOVED WITH THE ROOT SYSTEM AS SOLID UNITS WITH BALLS OF VARIETIES AND SIZES OF MATERIALS INCLUDED FOR EACH SHIPMENT SHALL BE FURNISHED TO THE PROJECT LANDSCAPE EARTH FIRMLY WRAPPED WITH BURLAP. THE DIAMETER AND DEPTH OF THE BALLS OF EARTH MUST BE SUFFICIENT TO encompass the fibrous root feeding systems necessary for the healthy development of the plant. No plant SHALL BE ACCEPTED WHEN THE BALL OF EARTH SURROUNDING ITS ROOTS HAS BEEN BADLY CRACKED OR BROKEN PREPARATORY TO OR DURING THE PROCESS OF PLANTING. THE BALLS SHALL REMAIN INTACT DURING ALL OPERATIONS. ALL PLANTS THAT CANNOT BE PLANTED AT ONCE MUST BE HEELED-IN BY SETTING IN THE GROUND AND COVERING THE BALLS WITH SOIL OR MULCH AND THEN WATERING. HEMP BURLAP AND TWINE IS PREFERABLE TO TREATED. IF TREATED BURLAP IS
 - USED, ALL TWINE IS TO BE CUT FROM AROUND THE TRUNK AND ALL BURLAP IS TO BE REMOVED. 8. PLANTS TRANSPORTED TO THE PROIECT IN OPEN VEHICLES SHALL BE COVERED WITH TARPS OR OTHER SUITABLE COVERS SECURELY FASTENED TO THE BODY OF THE VEHICLE TO PREVENT INJURY TO THE PLANTS. CLOSED VEHICLES SHALL BE ADEQUATELY VENTILATED TO PREVENT OVERHEATING OF THE PLANTS. EVIDENCE OF INADEQUATE PROTECTION FOLLOWING DIGGING, CARELESSNESS WHILE IN TRANSIT, OR IMPROPER HANDLING OR STORAGE SHALL BE CAUSE FOR REJECTION OF PLANT MATERIAL. ALL PLANTS SHALL BE KEPT MOIST, FRESH, AND PROTECTED. SUCH PROTECTION SHALL ENCOMPASS THE ENTIRE PERIOD DURING WHICH THE PLANTS ARE IN TRANSIT, BEING HANDLED, OR ARE IN TEMPORARY STORAGE.
 - 10. LANDSCAPE CONTRACTOR SHALL MAKE BEST EFFORT TO INSTALL PLANTINGS ON THE SAME DAY AS DELIVERY. IF PLANTS ARE NOT PLANTED IMMEDIATELY ON SITE, PROPER CARE SHALL BE TAKEN TO PLACE THE PLANTINGS IN PARTIAL SHADE WHEN possible. The root ball shall be kept moist at all time and covered with moistened mulch or aged WOODCHIPS. PROPER IRRIGATION SHALL BE SUPPLIED SO AS TO NOT ALLOW THE ROOT BALL TO DRY OUT. PLANTINGS SHALL BE UNTIED AND PROPER SPACING SHALL BE ALLOTTED FOR AIR CIRCULATION AND TO PREVENT DISEASE, WILTING, AND LEAF LOSS, PLANTS THAT REMAIN LINPLANTED FOR A PERIOD OF TIME GREATER THAN THREE (3) DAYS SHALL BE HEALED
 - II. NO PLANT MATERIAL SHALL BE PLANTED IN MUDDY OR FROZEN SOIL 12. PLANTS WITH INJURED ROOTS OR BRANCHES SHALL BE PRUNED PRIOR TO PLANTING UTILIZING CLEAN, SHARP TOOLS. ONLY DISEASED OR INIURED PLANTS SHALL BE REMOVED.
 - 13. IF ROCK OR OTHER UNDERGROUND OBSTRUCTION IS ENCOUNTERED, THE LANDSCAPE DESIGNER RESERVES THE RIGHT TO RELOCATE OR ENLARGE PLANTING PITS OR DELETE PLANT MATERIAL FROM THE CONTRACT
 - 14. IF PLANTS ARE PROPOSED WITHIN SIGHT TRIANGLES, TREES SHALL BE LIMBED AND MAINTAINED TO A HEIGHT OF EIGHT FEET (8') ABOVE GRADE, AND SHRUBS, GROUND COVER, PERENNIALS, AND ANNUALS SHALL BE MAINTAINED TO A HEIGHT NOT TO EXCEED TWO FEET (2") ABOVE GRADE UNLESS OTHERWISE NOTED OR SPECIFIED BY THE GOVERNING MUNICIPALITY OR
 - 15. INSTALLATION SHALL OCCUR DURING THE FOLLOWING SEASONS: PLANTS (MARCH 15 - DECEMBER 15)
 - LAWNS (MARCH 15 JUNE 15 OR SEPTEMBER I DECEMBER I) 16. THE FOLLOWING TREES ARE SUSCEPTIBLE TO TRANSPLANT SHOCK AND SHALL NOT BE PLANTED DURING THE FALL SEASON (STARTING SEPTEMBER 15)

IES CONCOLOR	CORNUS VARIETIES	ostrya virginiana
ER BUERGERIANUM	CRATAEGUS VARIETIES	PINUS NIGRA
ER FREEMANII	CUPRESSOCYPARIS LEYLANDII	PLATANUS VARIETIES
ER RUBRUM	FAGUS VARIETIES	POPULUS VARIETIES
ER SACCHARINUM	HALESIA VARIETIES	PRUNUS VARIETIES
TULA VARIETIES	ILEX X FOSTERII	PYRUS VARIETIES
RPINUS VARIETIES	ILEX NELLIE STEVENS	QUERCUS VARIETIES (NOT Q. PALUSTRIS)
DRUS DEODARA	ILEX OPACA	SALIX WEEPING VARIETIES
LTIS VARIETIES	juniperus virginiana	SORBUS VARIETIES
RCIDIPHYLLUM VARIETIES	KOELREUTERIA PANICULATA	TAXODIUM VARIETIES
DOIC CANIADENICIC	LICHTO AMD AD MADIETIES	TAVILV D DEDANIDENIC

IN WITH TOPSOIL OR MULCH AND WATERED AS REQUIRED TO PRESERVE ROOT MOISTURE.

- CERCIS CANADENSIS LIQUIDAMBAR VARIETIES TAXUX B REPANDEN: CORNUS VARIETIES LIRIODENDRON VARIETIES TILIA TOMENTOSA VARIETIES **CRATAEGUS VARIETIES ULMUS PARVIFOLIA VARIETIES** MALUS IN LEAF NYSSA SYLVAT**I**CA ZELKOVA VARIETIES
- 17. IF A PROPOSED PLANT IS UNATTAINABLE OR ON THE FALL DIGGING HAZARD LIST, AN EQUIVALENT SPECIES OF THE SAME SIZE MAY BE REQUESTED FOR SUBSTITUTION OF THE ORIGINAL PLANT, ALL SUBSTITUTIONS SHALL BE APPROVED BY THE PROJECT LANDSCAPE DESIGNER OR MUNICIPAL OFFICIAL PRIOR TO ORDERING AND INSTALLATION.
- 18. DURING THE COURSE OF CONSTRUCTION/PLANT INSTALLATION, EXCESS AND WASTE MATERIALS SHALL BE CONTINUOUSLY AND PROMPTLY REMOVED AT THE END OF EACH WORK DAY. ALL DEBRIS, MATERIALS, AND TOOLS SHALL BE PROPERLY STORED, STOCKPILED OR DISPOSED OF AND ALL PAVED AREAS SHALL BE CLEANED. 19. THE LANDSCAPE CONTRACTOR SHALL DISPOSE OF ALL RUBBISH AND EXCESS SOIL AT HIS EXPENSE TO AN OFF-SITE LOCATION
- 20. A 90-DAY MAINTENANCE PERIOD SHALL BEGIN IMMEDIATELY AFTER ALL PLANTS HAVE BEEN SATISFACTORILY INSTALLED. 21. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO, REPLACING MULCH THAT HAS BEEN DISPLACED BY EROSION OR DTHER MEANS. REPAIRING AND RESHAPING WATER RINGS OR SAUCERS. MAINTAINING STAKES AND GUYS IF ORIGINALI REQUIRED, WATERING WHEN NEEDED OR DIRECTED, WEEDING, PRUNING, SPRAYING, FERTILIZING, MOWING THE LAWN, AND PERFORMING ANY OTHER WORK REQUIRED TO KEEP THE PLANTS IN A HEALTHY CONDITION.
- 2. Mow all grass areas at regular intervals to keep the grass height from exceeding three inches (3"). Mowing SHALL BE PERFORMED ONLY WHEN GRASS IS DRY. MOWER BLADE SHALL BE SET TO REMOVE NO MORE THAN ONE THIRD (1/3) OF THE GRASS LENGTH. WHEN THE AMOUNT OF GRASS IS HEAVY, IT SHALL BE REMOVED TO PREVENT DESTRUCTION OF THE underlying turf. Mow grass areas in such a manner as to prevent clippings from blowing on paved areas, AND SIDEWALKS. CLEANUP AFTER MOWING SHALL INCLUDE SWEEPING OR BLOWING OF PAVED AREAS AND SIDEWALKS TO
- CLEAR THEM FROM MOWING DEBRIS. 3. GRASSED AREAS DAMAGED DURING THE PROCESS OF THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, WHO SHALL RESTORE THE DISTURBED AREAS TO A CONDITION SATISFACTORY TO THE PROJECT LANDSCAPE DESIGNER, MUNICIPAL OFFICIAL, OR OWNER/OWNER'S REPRESENTATIVE. THIS MAY INCLUDE FILLING TO GRADE, FERTILIZING, SEEDING, AND
- 24. SHOULD THE OWNER REQUIRE MAINTENANCE BEYOND THE STANDARD 90-DAY MAINTENANCE PERIOD, A SEPARATE
- CONTRACT SHALL BE ESTABLISHED. 25. LANDSCAPE CONTRACTOR SHALL WATER NEW PLANTINGS FROM TIME OF INSTALL AND THROUGHOUT REQUIRED 90-DAY
- MAINTENANCE PERIOD UNTIL PLANTS ARE ESTABLISHED. IF ON-SITE WATER IS NOT AVAILABLE AT THE PROJECT LOCATION, THE LANDSCAPE CONTRACTOR SHALL FURNISH IT BY MEANS OR A WATERING TRUCK OR OTHER ACCEPTABLE MANNER. 26. THE QUANTITY OF WATER APPLIED AT ONE TIME SHALL BE SUFFICIENT TO PENETRATE THE SOIL TO A MINIMUM OF EIGHT
- INCHES (8") IN SHRUB BEDS AND SIX INCHES (6") IN TURF AREAS AT A RATE WHICH WILL PREVENT SATURATION OF THE SOIL. 27. IF AN AUTOMATIC IRRIGATION SYSTEM HAS BEEN INSTALLED. IT CAN BE USED FOR WATERING PLANT MATERIAL. HOWEVER. FAILURE OF THE SYSTEM DOES NOT ELIMINATE THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY OF PLANT HEALTH AND

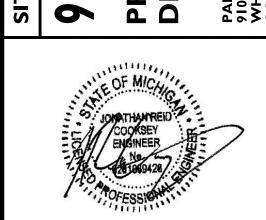
PLANT MATERIAL GUARANTEE NOTES

AS APPROVED BY THE LOCAL MUNICIPALITY.

- THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE YEAR (I YR.) FROM APPROVAL OF LANDSCAPE INSTALLATION BY THE PROJECT LANDSCAPE DESIGNER, MUNICIPAL OFFICIAL, OR OWNER/OWNER'S !. THE LANDSCAPE CONTRACTOR SHALL REMOVE AND REPLACE DYING, DEAD, OR DEFECTIVE PLANT MATERIAL AT HIS EXPENSE.
- THE LANDSCAPE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS COMPANY'S OPERATIONS. 3. ALL REPLACEMENT PLANTS SHALL BE OF THE SAME SPECIES AND SIZE AS SPECIFIED ON THE APPROVED OR FINAL PLANT LIST. REPLACEMENTS RESULTING FROM REMOVAL, LOSS, OR DAMAGE DUE TO OCCUPANCY OF THE PROJECT IN ANY PART, vandalism, physical damage by animals, vehicles, etc., and losses due to curtailment of water by local AUTHORITIES SHALL BE APPROVED AND PAID FOR BY THE OWNER.
- 4. THE CONTRACTOR SHALL INSTRUCT THE OWNER AS TO THE PROPER CARE AND MAINTENANCE OF ALL PLANTINGS.

LAWN (SEED OR SOD) NOTES:

- . SEED MIXTURE SHALL BE FRESH, CLEAN, NEW CROP SEED. SOD SHALL BE STRONGLY ROOTED, UNIFORM IN THICKNESS, AND FREE OF WEEDS, DISEASE, AND PESTS. L SEED OR SOD SHALL BE PURCHASED FROM A RECOGNIZED DISTRIBUTOR AND SHALL BE COMPOSED OF THE MIX OR BLEND
- WITHIN THE PROVIDED "SEED SPECIFICATION" OR "SOD SPECIFICATION." 3. REFERENCE LANDSCAPE PLAN FOR AREAS TO BE SEEDED OR LAID WITH SOD
- 4. SEEDING SHALL NOT BE PERFORMED IN WINDY WEATHER. IF THE SEASON OF THE PROJECT COMPLETION PROHIBITS
- PERMANENT STABILIZATION, TEMPORARY STABILIZATION SHALL BE PROVIDED IN ACCORDANCE WITH THE "TEMPORARY SEEDING SPECIFICATION.'
- 5. PROTECT NEW LAWN AREAS AGAINST TRESPASSING WHILE THE SEED IS GERMINATING. FURNISH AND INSTALL FENCES, SIGNS, BARRIERS OR ANY OTHER NECESSARY TEMPORARY PROTECTIVE DEVICES. DAMAGE RESULTING FROM TRESPASS. EROSION. WASHOUT, SETTLEMENT OR OTHER CAUSES SHALL BE REPAIRED BY THE LANDSCAPE CONTRACTOR AT HIS EXPENSE. REMOVE ALL FENCES, SIGNS, BARRIERS OR OTHER TEMPORARY PROTECTIVE DEVICES ONCE LAWN HAS BEEN ESTABLISHED.



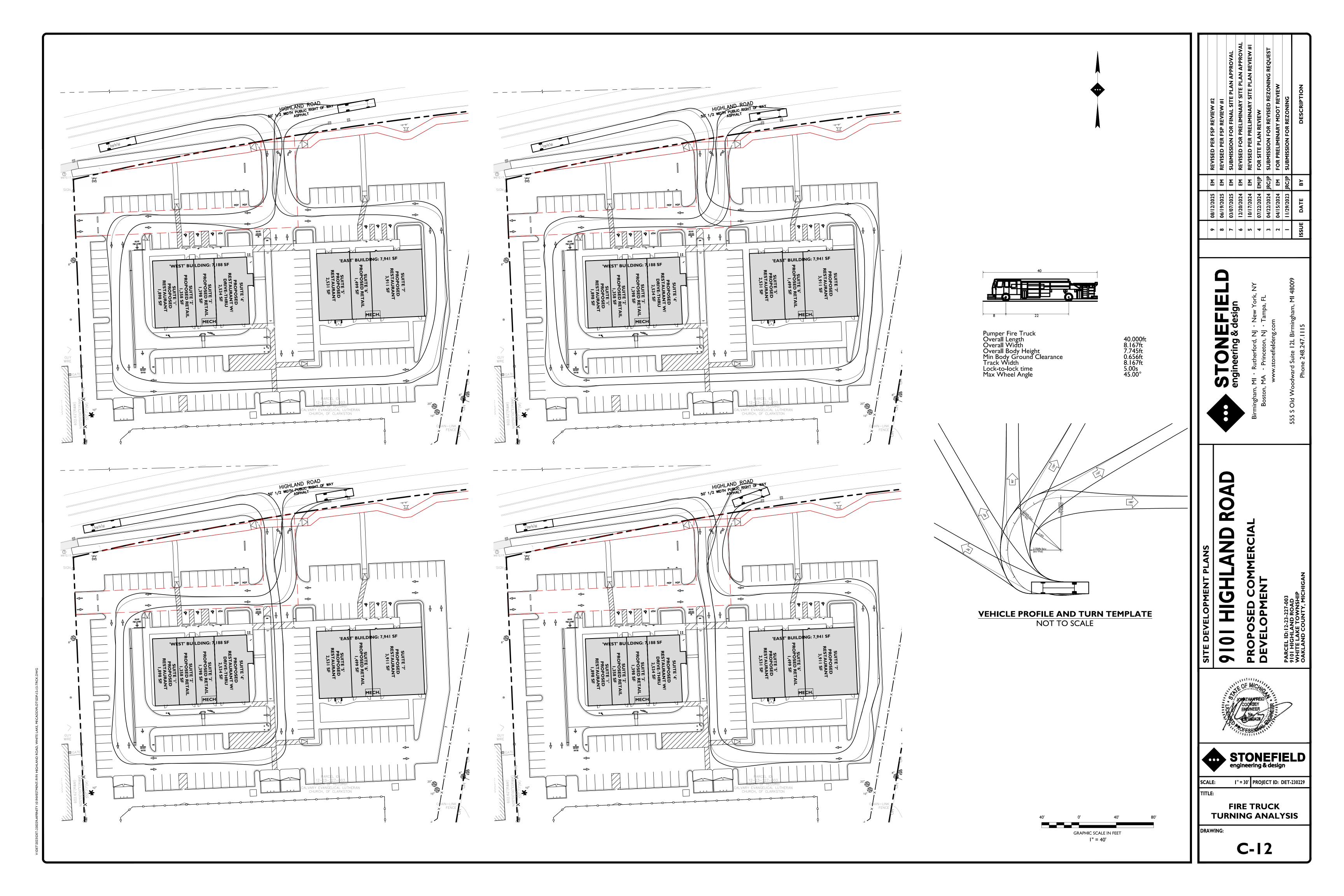
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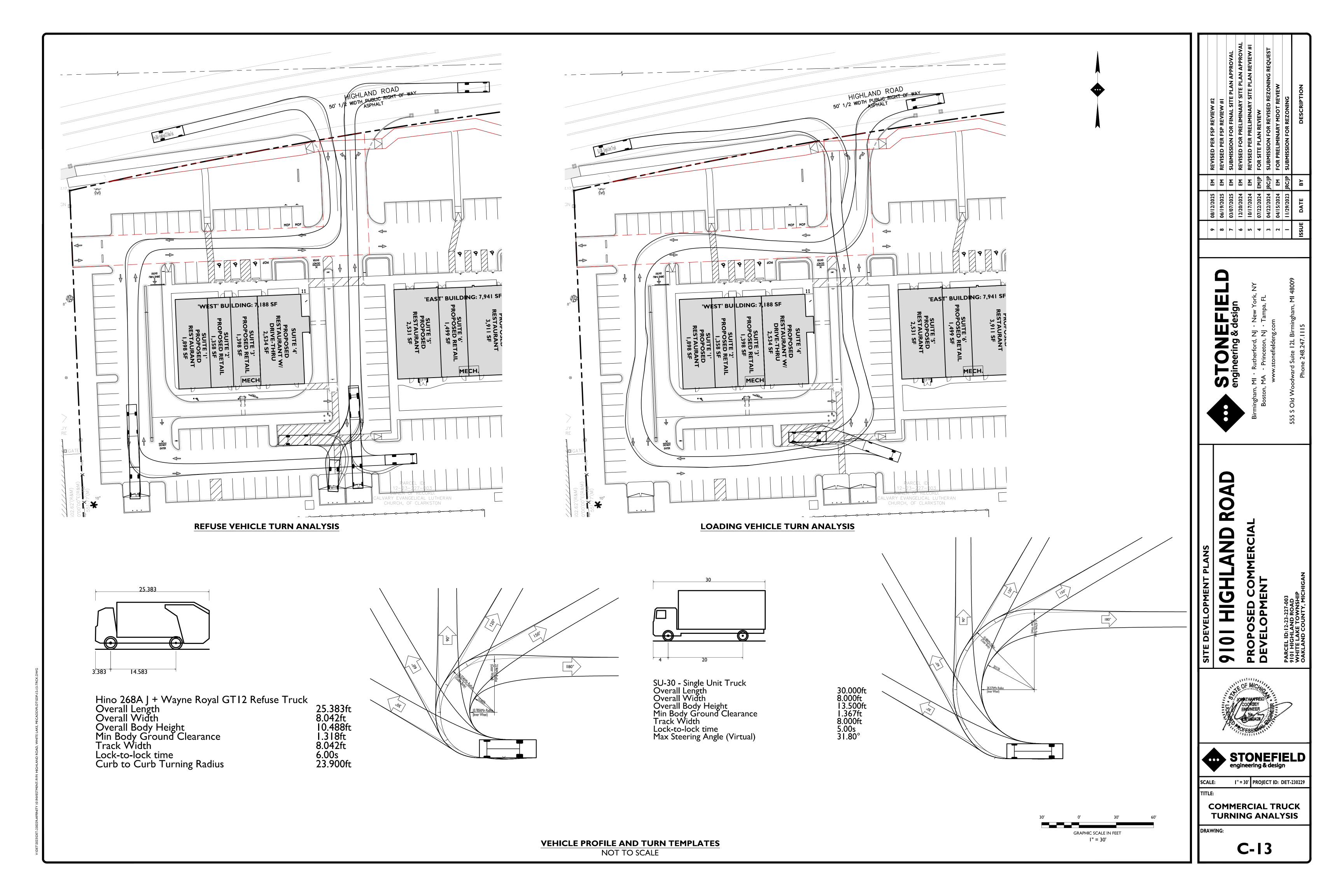


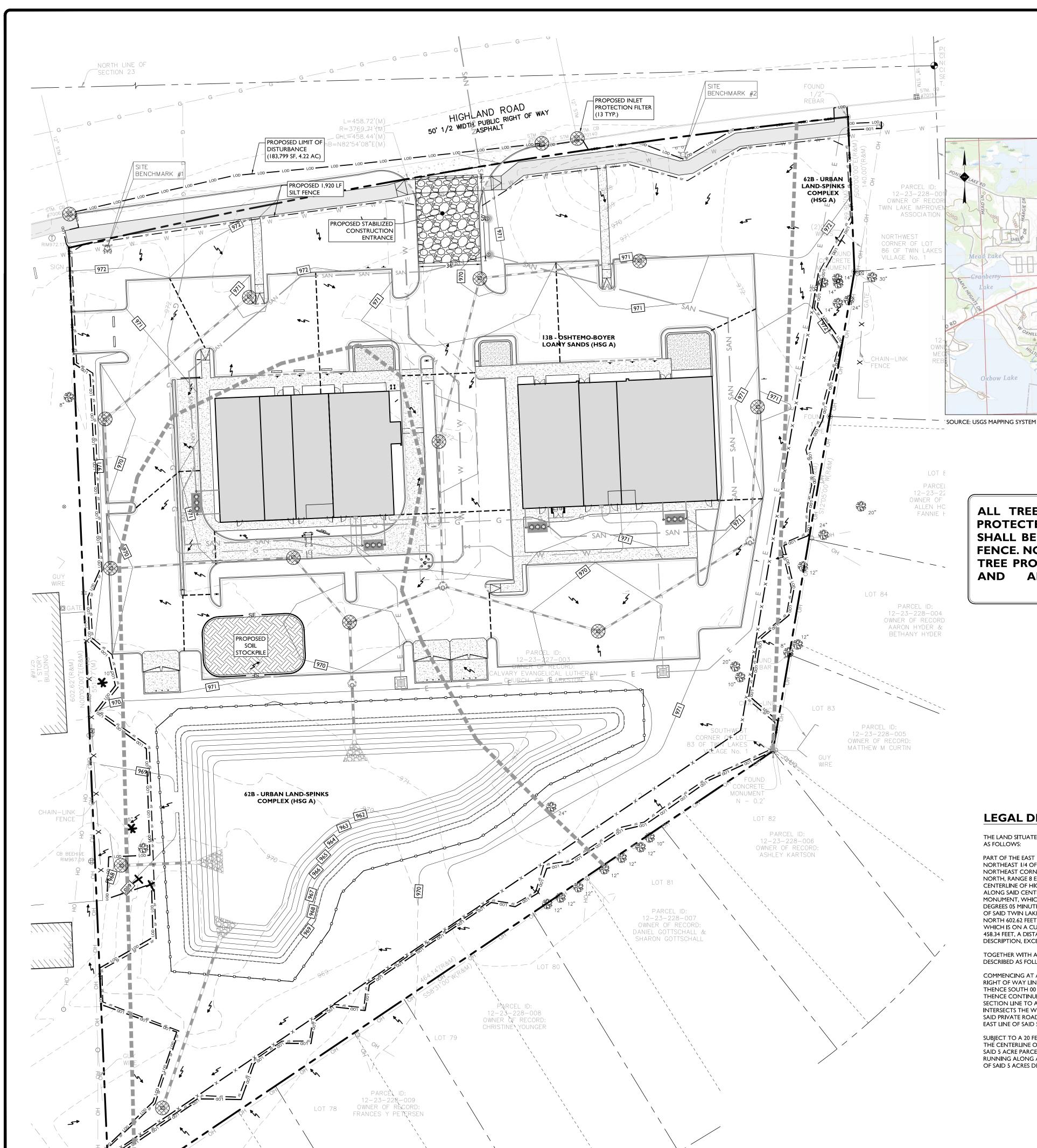
SCALE: AS SHOWN PROJECT ID: DET-230229

LANDSCAPING DETAILS

DRAWING:









SYMBOL DESCRIPTION PROPERTY BOUNDARY ADJACENT PROPERTY BOUNDARY PROPOSED LIMIT OF DISTURBANCE PROPOSED SILT FENCE PROPOSED STOCKPILE & **EQUIPMENT STORAGE** PROPOSED STABILIZED

LOCATION MAP

600 FT

TO

POND

SCALE: $I'' = 2,000' \pm$

ALL TREES ON THIS PLAN INDICATED TO BE PROTECTED THROUGHOUT CONSTRUCTION SHALL BE EQUIPPED WITH A TREE PROTECTION FENCE. NO CONSTRUCTION SHALL OCCUR UNTIL TREE PROTECTION FENCE HAS BEEN INSTALLED APPROVED BY THE COMMUNITY **DEVELOPMENT DIRECTOR.**

SEQUENCE OF CONSTRUCTION

INSTALL INLET FILTERS ON EXISTING STRUCTURES, SILT FENCE AND

CONSTRUCTION ENTRANCE

PROPOSED INLET PROTECTION FILTER

- CONSTRUCTION ENTRANCE (2 DAYS).
 ROUGH GRADING AND TEMPORARY SEEDING (20 DAYS).
- BUILDING CONSTRUCTION AND SITE IMPROVEMENTS (90 DAYS). LANDSCAPING IMPROVEMENTS AND FINAL SOD (7 DAYS). REMOVE SOIL EROSION MEASURES (I DAY).
- ANTICIPATED START DATE: SEPTEMBER 2025
- AS A GENERAL GUIDE TO THE CONSTRUCTION TIMELINE. ALL DURATIONS ARE SUBJECT TO CHANGE BY CONTRACTOR. CONTRACTOR SHALL SUBMIT CONSTRUCTION SCHEDULE TO CONSTRUCTION ACCORDINGLY

TYPE OF SOIL OSHTEMO-BOYER LOAMY SANDS (13B) PERCENT OF SITE COVERAGE 68.3% HYDROLOGIC SOIL GROUP A DEPTH TO RESTRICTIVE LAYER SOIL PERMEABILITY OSHTEMO-BOYER LOAMY COMPLEX (68.3%) 31.7% A A DEPTH TO RESTRICTIVE LAYER > 80 INCHES > 80 INCHES SOIL PERMEABILITY HIGH 1.95 TO 5.95 IN / HR HIGH 1.95 TO	
HYDROLOGIC SOIL GROUP A A DEPTH TO RESTRICTIVE LAYER > 80 INCHES > 80 INCHE	
DEPTH TO RESTRICTIVE LAYER > 80 INCHES > 80 INCHE	
SOIL PERMEABILITY HIGH 1.95 TO 5.95 IN / HR HIGH 1.95 T	5
	O 5.95 IN / HR
DEPTH TO WATER TABLE > 80 INCHES > 80 INCHE	5

LEGAL DESCRIPTION

THE LAND SITUATED IN THE TOWNSHIP OF WHITE LAKE, COUNTY OF OAKLAND, STATE OF MICHIGAN, IS DESCRIBED

PART OF THE EAST I/2 OF THE SOUTHEAST I/4 OF THE SOUTHEAST I/4 OF SECTION I4, AND EAST I/2 OF THE NORTHEAST 1/4 OF SECTION 23, TOWN 3 NORTH, RANGE 8 EAST, DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHEAST CORNER OF SECTION 23, WHICH IS ALSO A COMMON CORNER TO SECTIONS 13, 14 AND 24, TOWN 3 NORTH, RANGE 8 EAST, AND RUNNING THENCE NORTH 00 DEGREES 19 MINUTES 10 SECONDS EAST 26.40 FEET TO THE CENTERLINE OF HIGHLAND ROAD (M-59), THENCE SOUTH 85 DEGREES 51 MINUTES 44 SECONDS WEST 51.84 FEET ALONG SAID CENTERLINE TO THE POINT OF BEGINNING OF THIS DESCRIPTION; THENCE SOUTH 140.00 FEET TO A MONUMENT, WHICH IS THE NORTHWEST CORNER OF LOT 86 OF TWIN LAKES VILLAGE NO. I; THENCE SOUTH 12 DEGREES 05 MINUTES 00 SECONDS WEST 282.37 FEET TO A MONUMENT WHICH IS THE SOUTHWEST CORNER OF LOT 83 OF SAID TWIN LAKES VILLAGE NO. I, THENCE SOUTH 58 DEGREES 31 MINUTES 00 SECONDS WEST 464.14 FEET; THENCE NORTH 602.62 FEET TO THE CENTERLINE OF HIGHLAND ROAD (M-59), THENCE EASTERLY ALONG SAID CENTERLINE WHICH IS ON A CURVE TO THE RIGHT, WHOSE CHORD BEARS NORTH 82 DEGREES 59 MINUTES 45 SECONDS EAST 458.34 FEET, A DISTANCE ALONG THE CURVE OF 458.00 FEET MORE OR LESS TO THE POINT OF BEGINNING OF THIS DESCRIPTION, EXCEPTING THE NORTHERLY 50 FEET THEREOF SITUATED WITHIN M-59 HIGHWAY.

TOGETHER WITH AN EASEMENT FOR INGRESS AND EGRESS OVER A 20 FOOT PRIVATE ROAD WHOSE CENTERLINE IS DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT AT THE INTERSECTION OF THE CENTERLINE OF HIGHLAND ROAD (M-59) AND THE WEST RIGHT OF WAY LINE OF SUNNYBEACH BOULEVARD IN SECTION 13, TOWN 3 NORTH, RANGE 8 EAST, AND RUNNING THENCE SOUTH 00 DEGREES 00 MINUTES 54 SECONDS EAST 29.01 FEET TO THE SOUTH LINE OF SAID SECTION 13; THENCE CONTINUING SOUTH 00 DEGREES 00 MINUTES 54 SECONDS EAST 73.99 FEET OVER AND ACROSS SAID SOUTH SECTION LINE TO A POINT LOCATED IN SECTION 24 WHERE THE CENTERLINE OF THE PRIVATE ROAD RIGHT OF WAY INTERSECTS THE WEST RIGHT OF WAY LINE OF SUNNYBEACH BOULEVARD, WHICH IS THE POINT OF BEGINNING OF SAID PRIVATE ROAD RIGHT OF WAY; THENCE NORTH 76 DEGREES 27 MINUTES 33 SECONDS WEST 154.31 FEET TO THE EAST LINE OF SAID 5 ACRES DESCRIBED AS THE CAPTIONED LAND ABOVE.

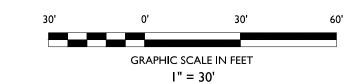
SUBJECT TO A 20 FEET EASEMENT FOR INGRESS AND EGRESS OVER THAT PART OF SAID DESCRIBED 5 ACRES OF LAND, THE CENTERLINE OF SAID EASEMENT IS DESCRIBED AS FOLLOWS: COMMENCING AT A POINT ON THE EAST LINE OF SAID 5 ACRE PARCEL OF LAND DISTANT SOUTH 60.00 FEET FROM THE NORTHEAST CORNER THEREOF, THENCE RUNNING ALONG A CURVE TO THE LEFT PARALLEL TO THE STATE HIGHWAY M-59 RIGHT OF WAY TO THE WEST LINE OF SAID 5 ACRES DESCRIBED AS THE CAPTIONED LAND ABOVE.



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

SOIL EROSION AND SEDIMENT CONTROL NOTES

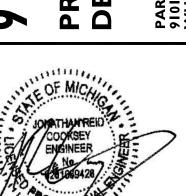
- I. THE CONTRACTOR IS RESPONSIBLE FOR SOIL EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL IN COMPLIANCE WITH LOCAL, STATE, AND FEDERAL AIR QUALITY 3. THE CONTRACTOR IS RESPONSIBLE TO INSPECT ALL SOIL EROSION
- AND SEDIMENT CONTROL MEASURES WEEKLY AND AFTER A PRECIPITATION EVENT GREATER THAN I INCH. THE CONTRACTOR SHALL MAINTAIN AN INSPECTION LOG ON SITE AND DOCUMENT CORRECTIVE ACTION TAKEN THROUGHOUT THE COURSE OF CONSTRUCTION AS REQUIRED.



6	08/12/2025	EM	REVISED PER FSP REVIEW #2
8	06/19/2025	EM	REVISED PER FSP REVIEW #1
7	03/07/2025	Ψ	SUBMISSION FOR FINAL SITE PLAN AF
9	12/20/2024	Ψ	REVISED FOR PRELIMINARY SITE PLAN
2	10/17/2024	Ψ	REVISED PER PRELIMINARY SITE PLAN
4	07/22/2024	EM/JP	FOR SITE PLAN REVIEW
က	04/22/2024 JRC/JP	JRC/JP	SUBMISSION FOR REVISED REZONING
2	04/15/2024	Ψ	FOR PRELIMINARY MDOT REVIEW
_	11/29/2023	JRC/JP	SUBMISSION FOR REZONING
ISSUE	DATE	ВҮ	DESCRIPTION



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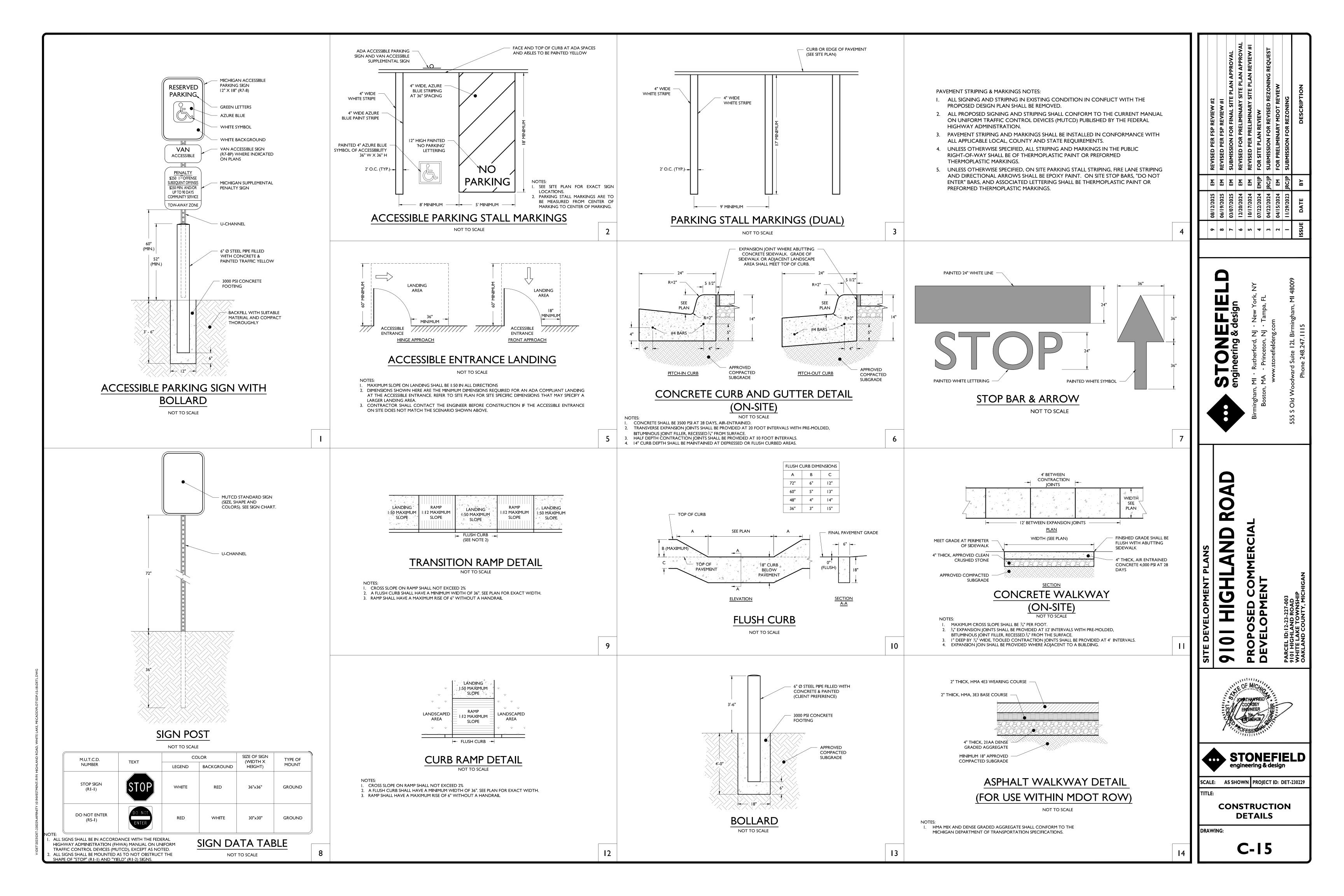


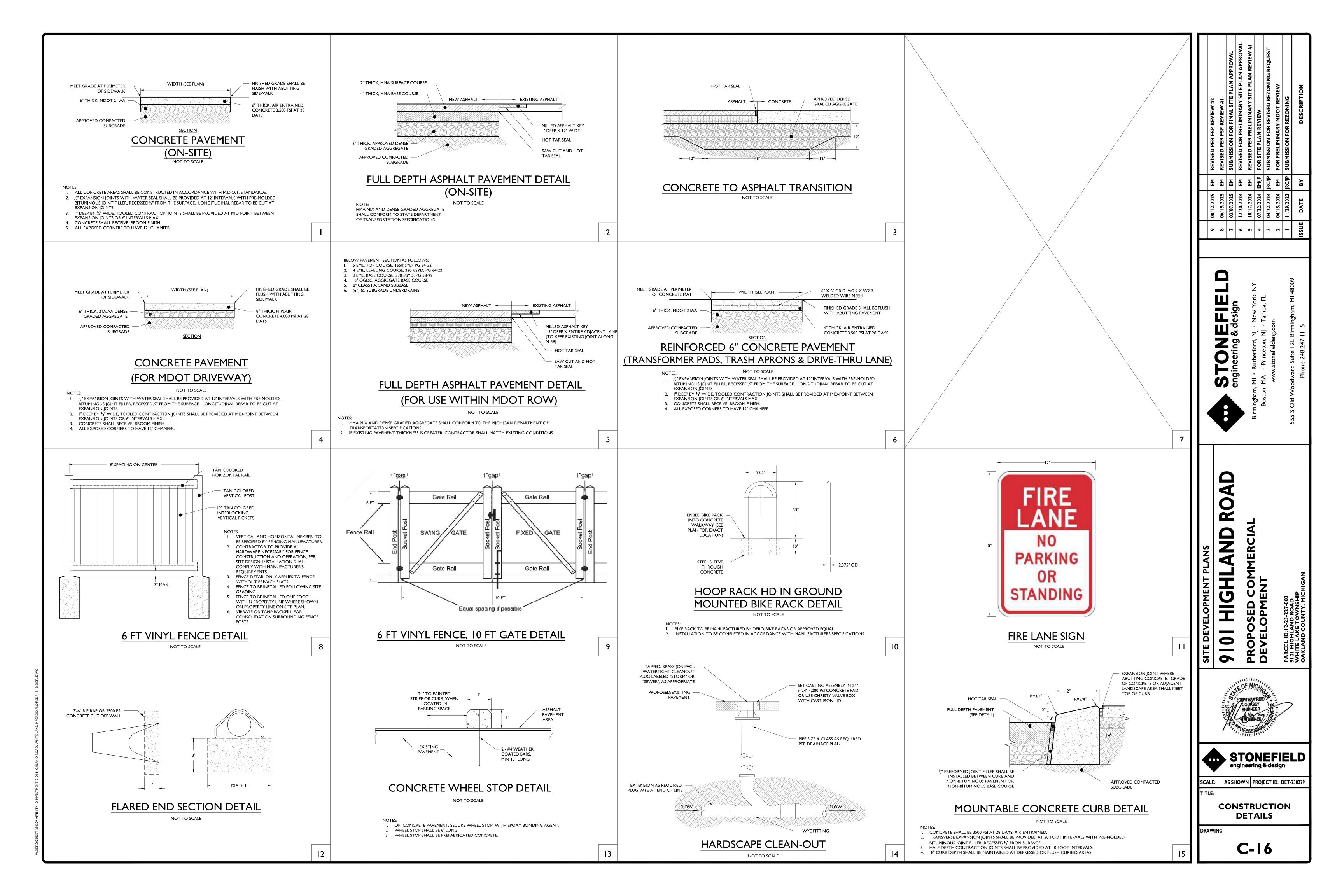


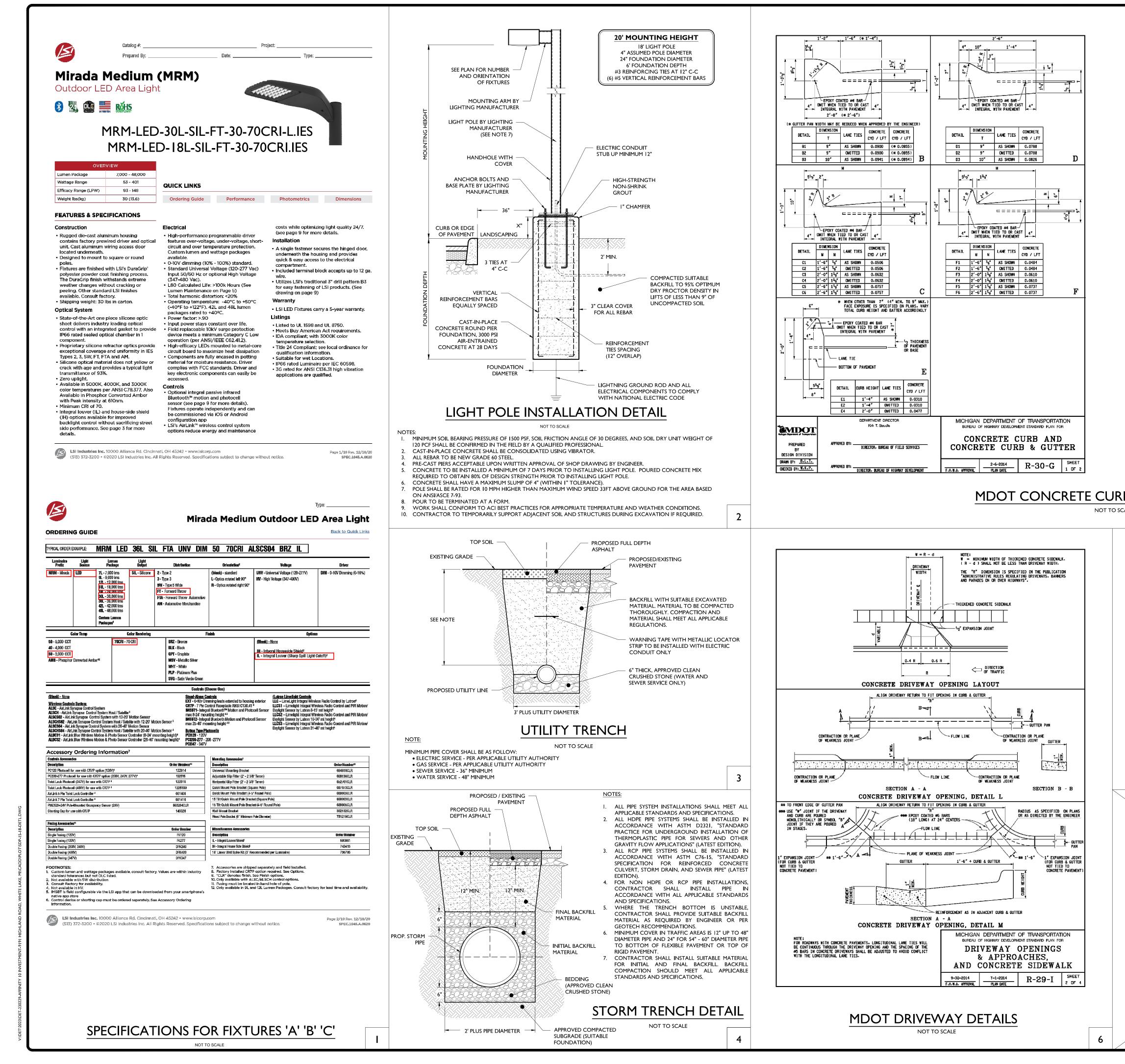
I" = 30' PROJECT ID: DET-230229

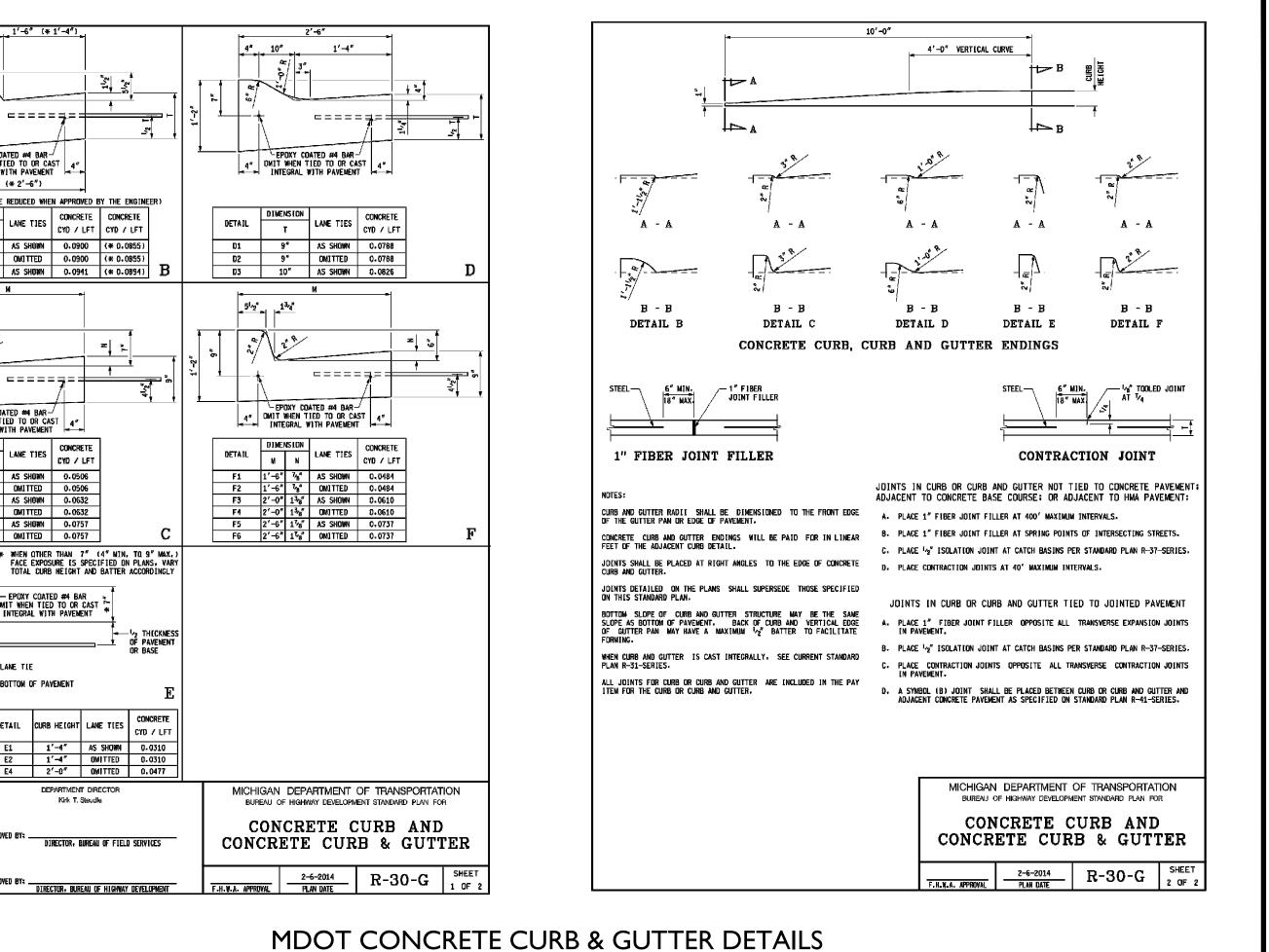
SOIL EROSION & SEDIMENT CONTROL PLAN

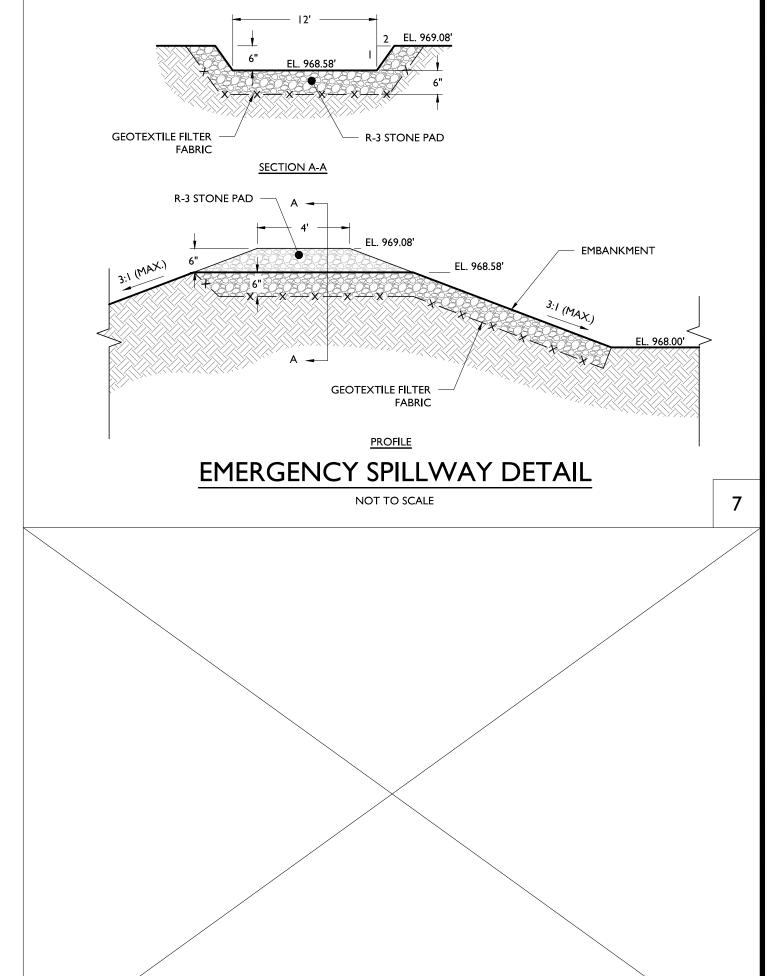
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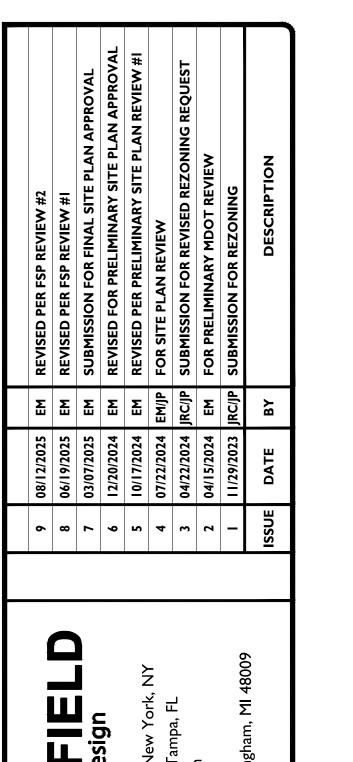












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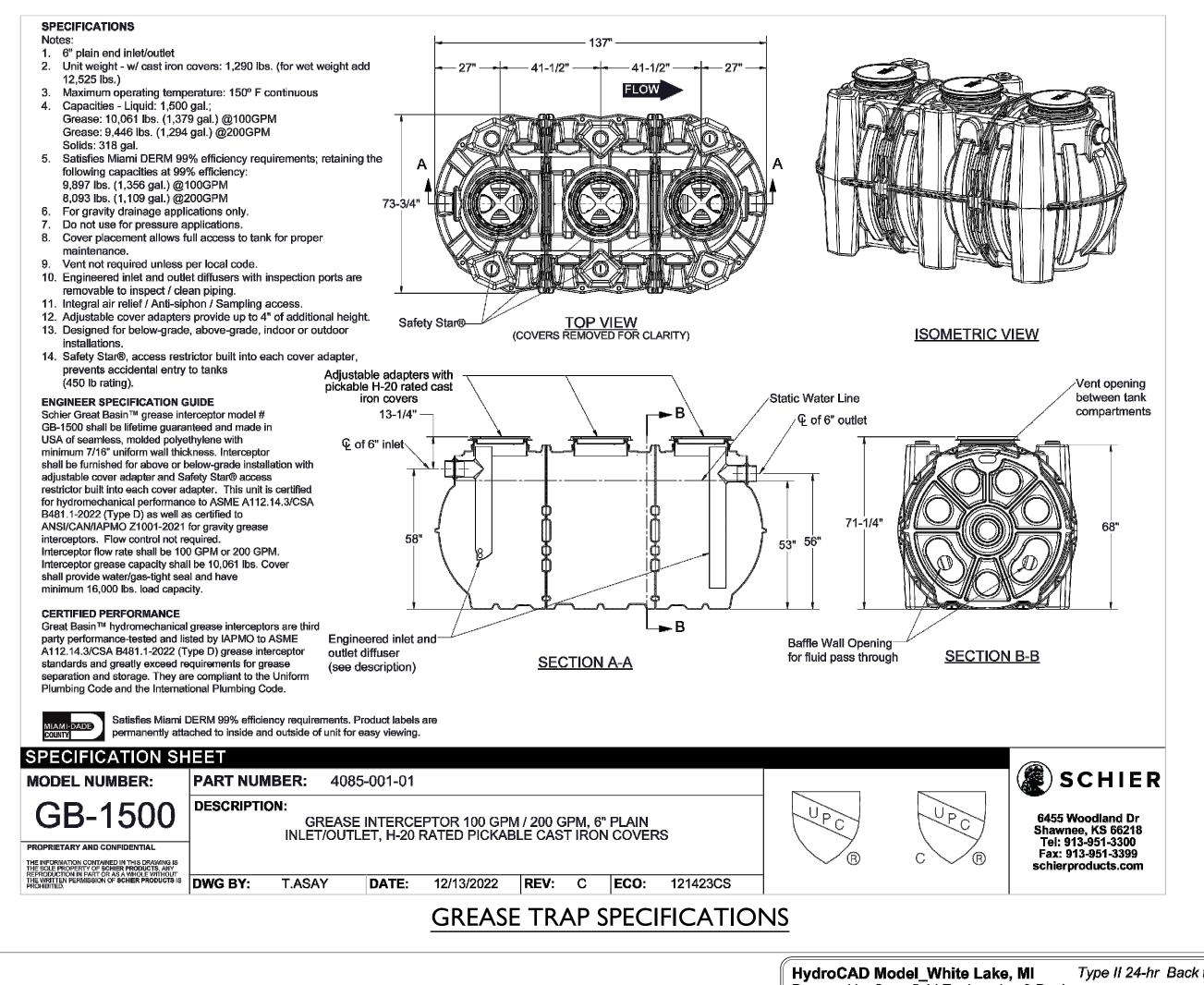


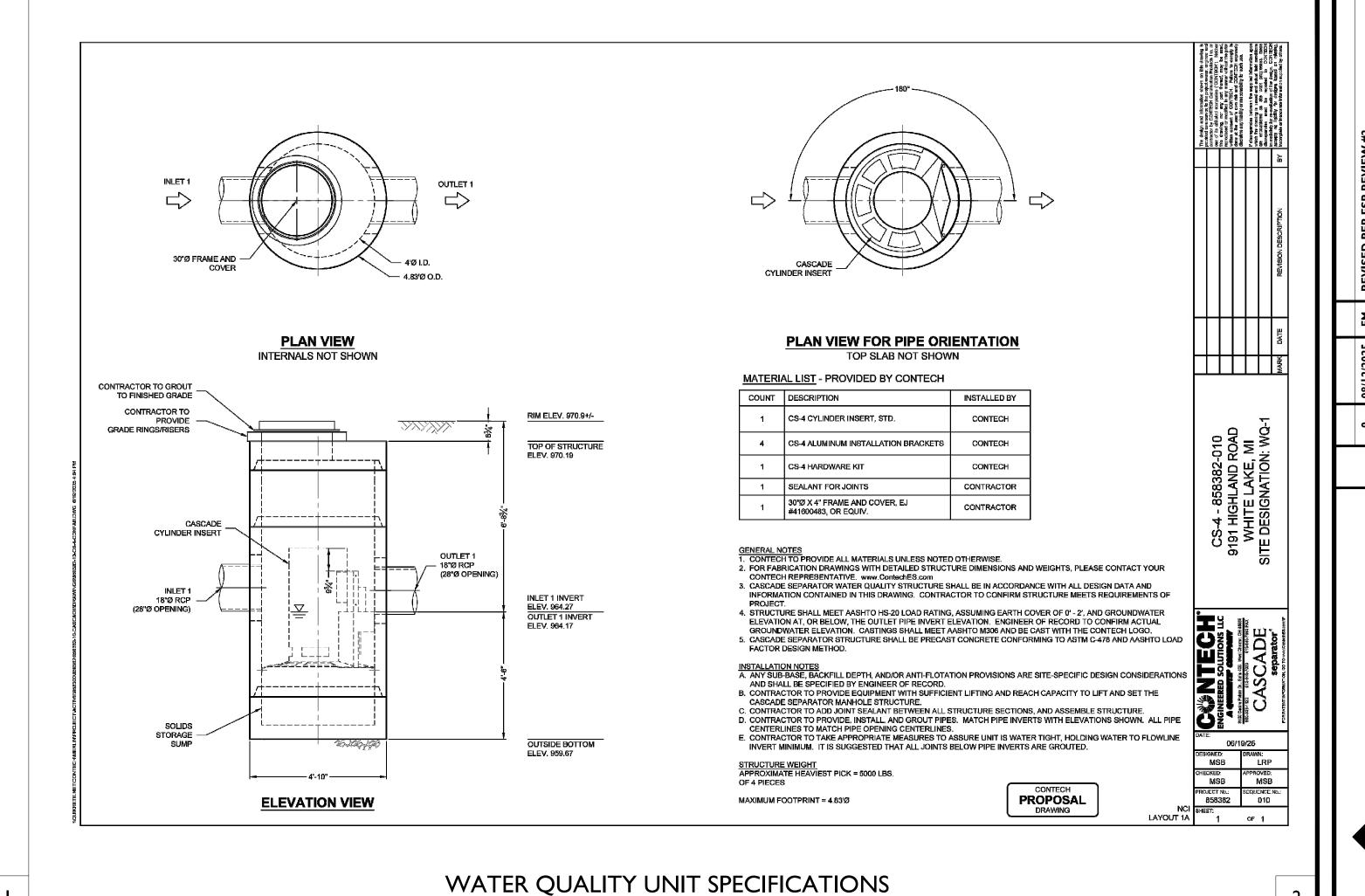


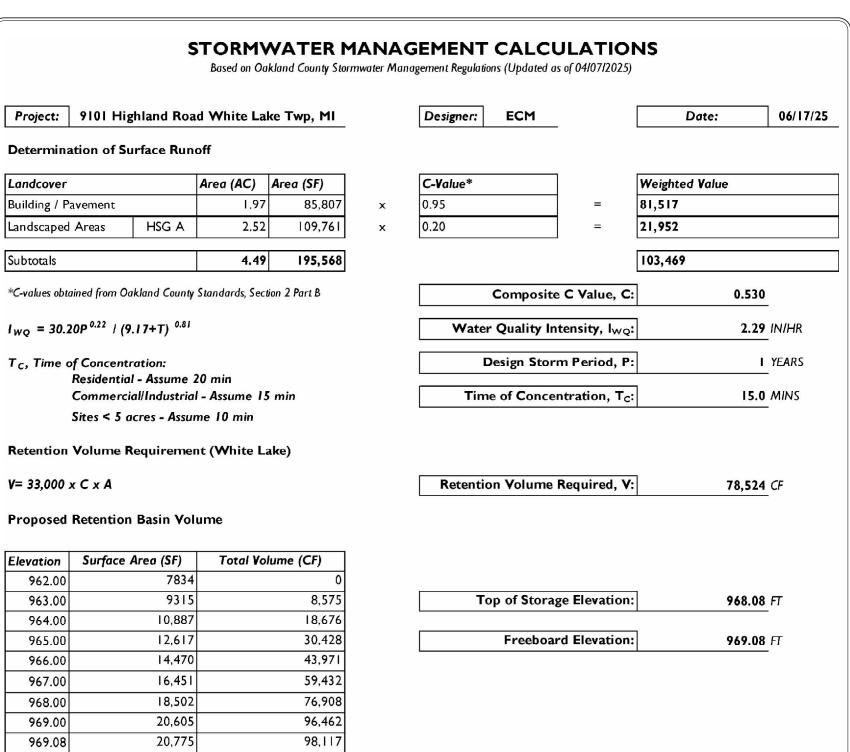
SCALE: AS SHOWN PROJECT ID: DET-230229 CONSTRUCTION

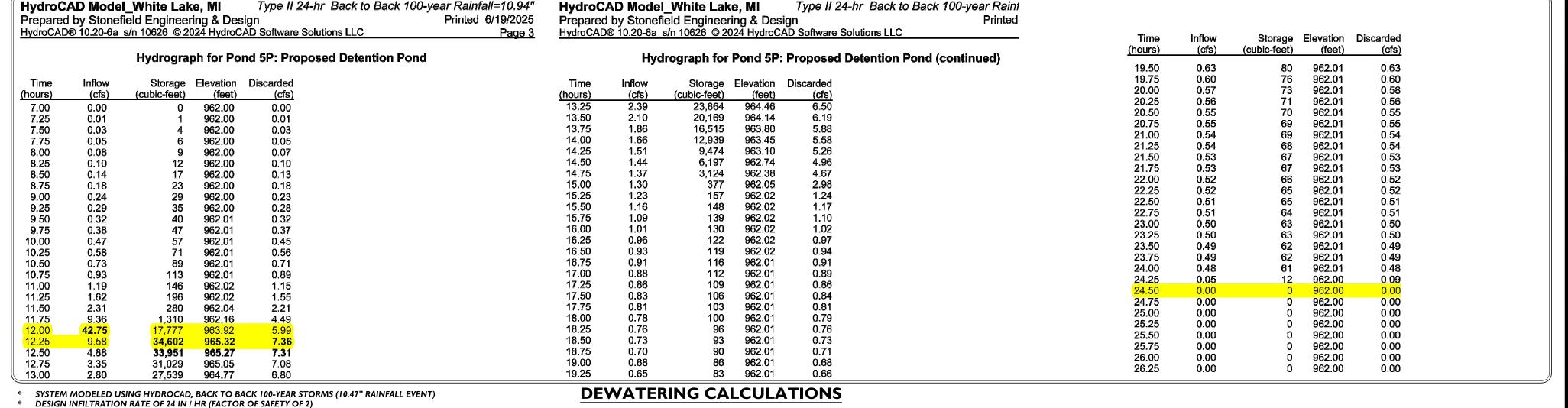
DETAILS DRAWING:

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		Rim Elevation	Rim Elevation	Invert	Invert	Pipe Size	Pipe Length	Pipe Slope	Flow Rate	Pipe Capacity	Velocity	HGL	HGL	Drainage	Runoff	Time of	Rainfall
Line #	Line ID	Downstream	Upstream	Downstream	Upstream	(IN)	(FT)	(%)	(CFS)	(CFS)	Downstream	Downstream	Upstream	Area (AC)	Coefficient	Concentration	Intensity
		(FT)	(FT)	(FT)	(FT)	(114)	(,,,	(70)	(0.5)	(6.5)	(ft/s)	(FT)	(FT)	Area (Ae)	Coefficient	(MIN)	(IN/HR)
j [EW-I TO WQ-I	964.00	970.90	964.02	964.17	18	30	0.50	6.65	7.42	3.76	965.52	965.63	0.00	0.00	20.30	3.90
2	WQ-I TO D-101	970.90	969.30	964.27	964.44	18	40	0.42	6.68	6.85	3.90	965.66	965.80	0.31	0.86	20.10	3.90
3	D-101 TO D-102	969.30	970.50	964.54	964.80	12	50	0.52	2.26	2.57	2.87	966.10	966.30	0.24	0.91	18.10	3.90
4	D-102 TO D-103	970.50	969.70	964.90	965.43	12	106	0.50	1.53	2.52	1.95	966.46	966.65	0.18	0.67	17.10	3.90
5	D-103 TO D-104	969.70	969.70	965.53	965.96	12	86	0.50	1.12	2.52	1.43	966.74	966.82	0.25	0.68	16.20	3.90
6	D-104 TO D-105	969.70	970.75	966.06	966.61	12	110	0.50	0.51	2.52	0.75	966.86	966.97	0.20	0.65	15.00	3.90
7	D-101 TO D-201	969.30	971.10	964.54	964.85	15	63	0.49	3.70	4.53	3.02	966.10	966.30	0.00	0.00	19.70	3.90
8	D-201 TO D-202	971.10	970.40	964.95	965.30	12	71	0.49	2.21	2.50	2.81	966.44	966.71	0.13	0.83	16.80	3.90
9	D-202 TO D-203	970.40	969.70	965.40	965.89	12	98	0.50	1.85	2.52	2.36	966.77	967.04	0.38	0.69	16.10	3.90
10	D-203 TO D-204	969.70	970.40	965.99	966. 4 5	12	93	0.49	0.90	2.50	1.14	967.16	967.21	0.48	0.48	15.00	3.90
П	D-201 TO D-301	971.10	969.60	965.05	965.54	12	99	0.49	1.72	2.51	2.19	966.44	966.67	0.55	0.77	18.90	3.90
12	D-301 TO D-302	969.60	971.00	965.64	966.10	12	91	0.51	0.29	2.53	0.36	966.77	966.78	0.00	0.00	15.80	3.90
13	D-302 TO D-303	971.00	970.40	966.20	966.59	12	79	0.49	0.29	2.50	0.62	966.78	966.86	0.18	0.42	15.00	3.90

STORMWATER CALCULATIONS

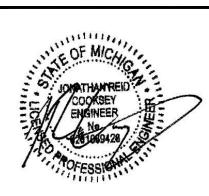
Basin volume calculated based on a trapezoidal prism

					S	TORMW	ATER SY	STEM DE	SIGN (10-	YEAR STO	RM)						
Line #	Line ID	Rim Elevation Downstream (FT)	Rim Elevation Upstream (FT)	Invert Downstream (FT)	Invert Upstream (FT)	Pipe Size (IN)	Pipe Length (FT)	Pipe Slope (%)	Flow Rate (CFS)	Pipe Capacity (CFS)	Velocity Downstream (ft/s)	HGL Downstream (FT)	HGL Upstream (FT)	Drainage Area (AC)	Runoff Coefficient	Time of Concentration (MIN)	Rainfall Intensity (IN/HR)
j	EW-I TO WQ-I	964.00	970.90	964.02	964.17	18	30	0.50	6.65	7.42	3.76	965.52	965.63	0.00	0.00	20.30	3.90
2	WQ-I TO D-101	970.90	969.30	964.27	964.44	18	40	0.42	6.68	6.85	3.90	965.66	965.80	0.31	0.86	20.10	3.90
3	D-101 TO D-102	969.30	970.50	964.54	964.80	12	50	0.52	2.26	2.57	2.87	966.10	966.30	0.24	0.91	18.10	3.90
4	D-102 TO D-103	970.50	969.70	964.90	965.43	12	106	0.50	1.53	2.52	1.95	966.46	966.65	0.18	0.67	17.10	3.90
5	D-103 TO D-104	969.70	969.70	965.53	965.96	12	86	0.50	1.12	2.52	1.43	966.74	966.82	0.25	0.68	16.20	3.90
6	D-104 TO D-105	969.70	970.75	966.06	966.61	12	110	0.50	0.51	2.52	0.75	966.86	966.97	0.20	0.65	15.00	3.90
7	D-101 TO D-201	969.30	971.10	964.54	964.85	15	63	0.49	3.70	4.53	3.02	966.10	966.30	0.00	0.00	19.70	3.90
8	D-201 TO D-202	971.10	970.40	964.95	965.30	12	71	0.49	2.21	2.50	2.81	966.44	966.71	0.13	0.83	16.80	3.90
9	D-202 TO D-203	970.40	969.70	965.40	965.89	12	98	0.50	1.85	2.52	2.36	966.77	967.0 4	0.38	0.69	16.10	3.90
10	D-203 TO D-204	969.70	970. 4 0	965.99	966. 4 5	12	93	0.49	0.90	2.50	1.14	967.16	967.21	0.48	0. 4 8	15.00	3.90
П	D-201 TO D-301	971.10	969.60	965.05	965.54	12	99	0.49	1.72	2.5	2.19	966.44	966.67	0.55	0.77	18.90	3.90
12	D-301 TO D-302	969.60	971.00	965.64	966.10	12	91	0.51	0.29	2.53	0.36	966.77	966.78	0.00	0.00	15.80	3.90
13	D-302 TO D-303	971.00	970.40	966.20	966.59	12	79	0.49	0.29	2.50	0.62	966.78	966.86	0.18	0.42	15.00	3.90
14	EW-2 TO D-501	964.83	968.08	964.75	965.80	12	105	1.00	0.24	3.56	0.31	965.75	966.00 j	0.31	0.20	15.00	3.90
15	EW-3 TO D-601	965.45	968.08	965.38	965.80	12	42	1.00	0.14	3.56	0.18	966.38	966.38	0.18	0.20	15.00	3.90
Notes: j-Line	contains hyd. jump	•				•			•	•	•						

AO AND

S E S PM

ROPO EVEL



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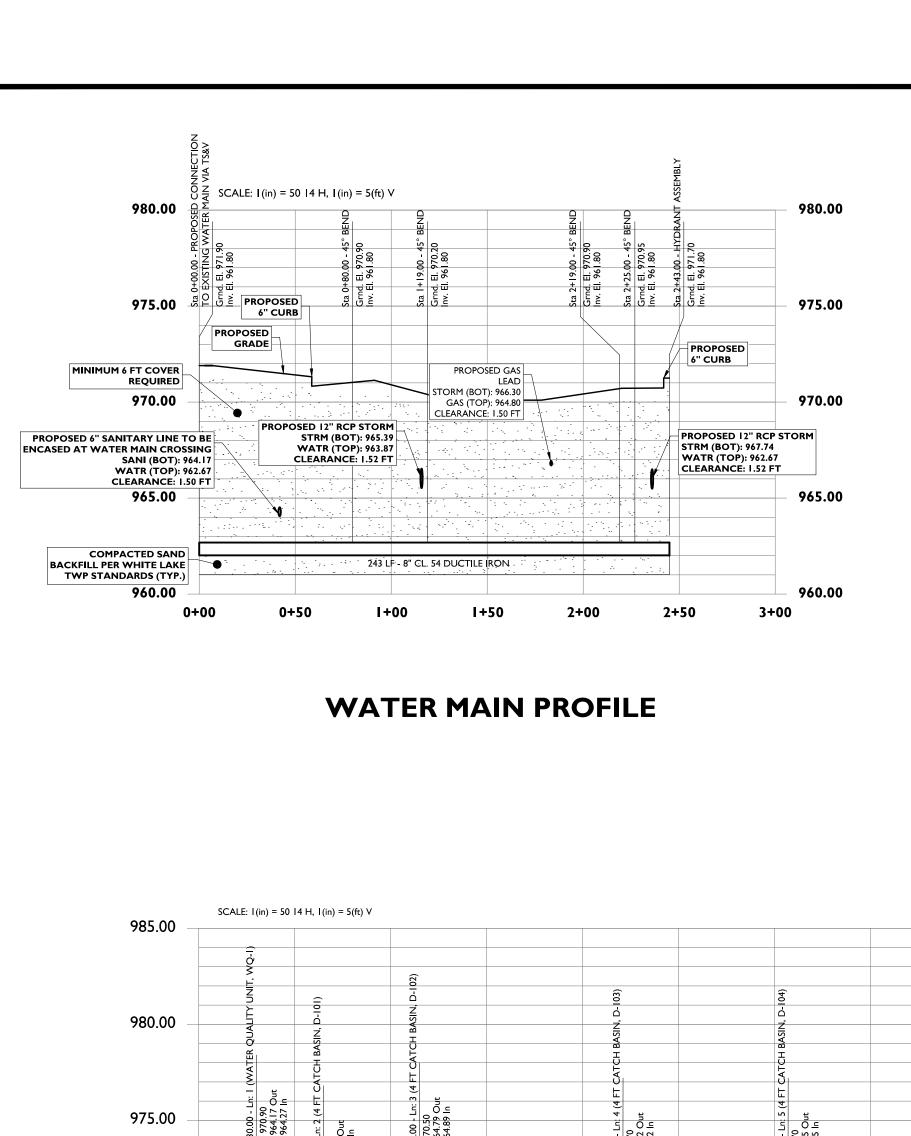


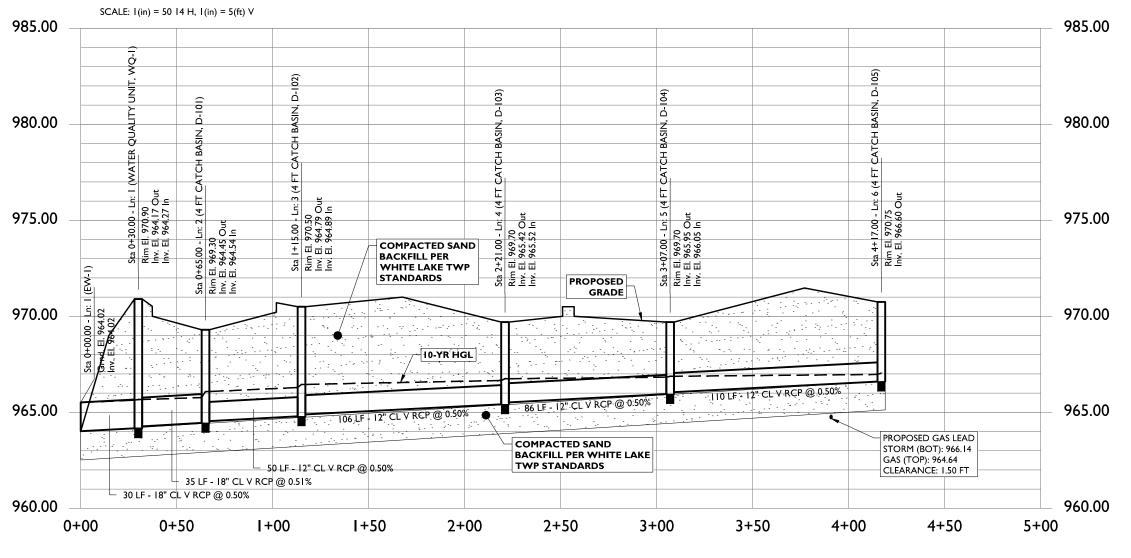


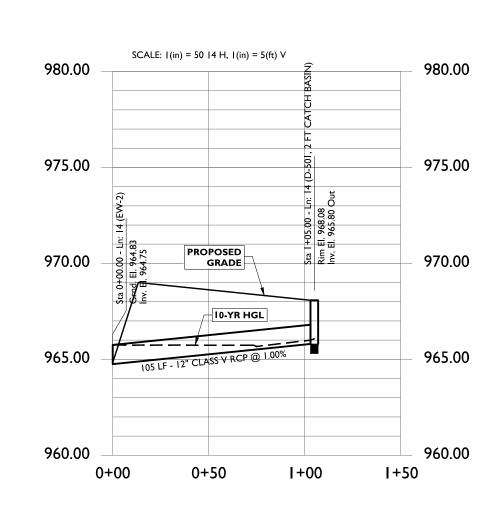
SCALE: AS SHOWN PROJECT ID: DET-230229

CONSTRUCTION DETAILS

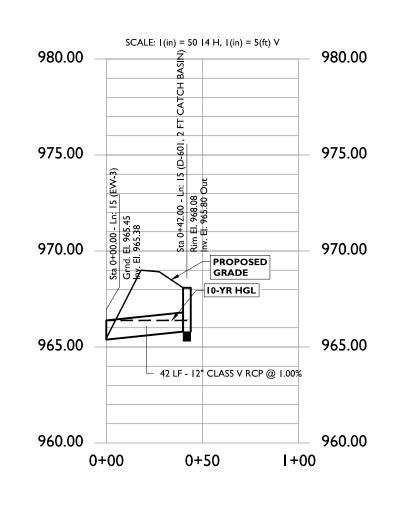
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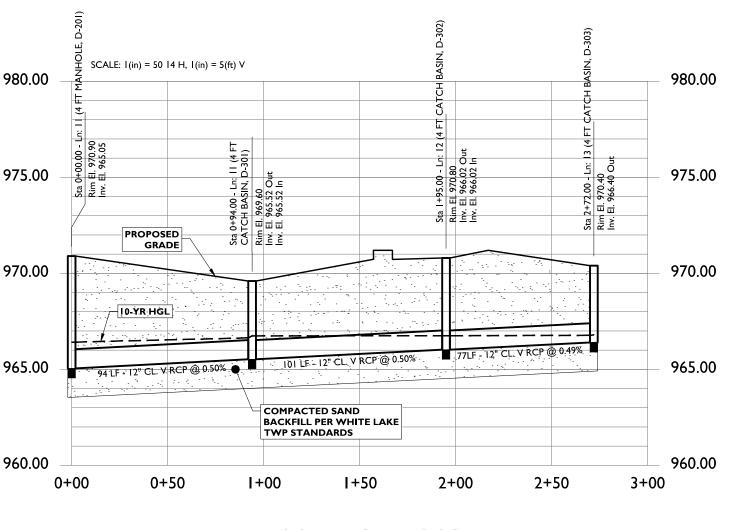




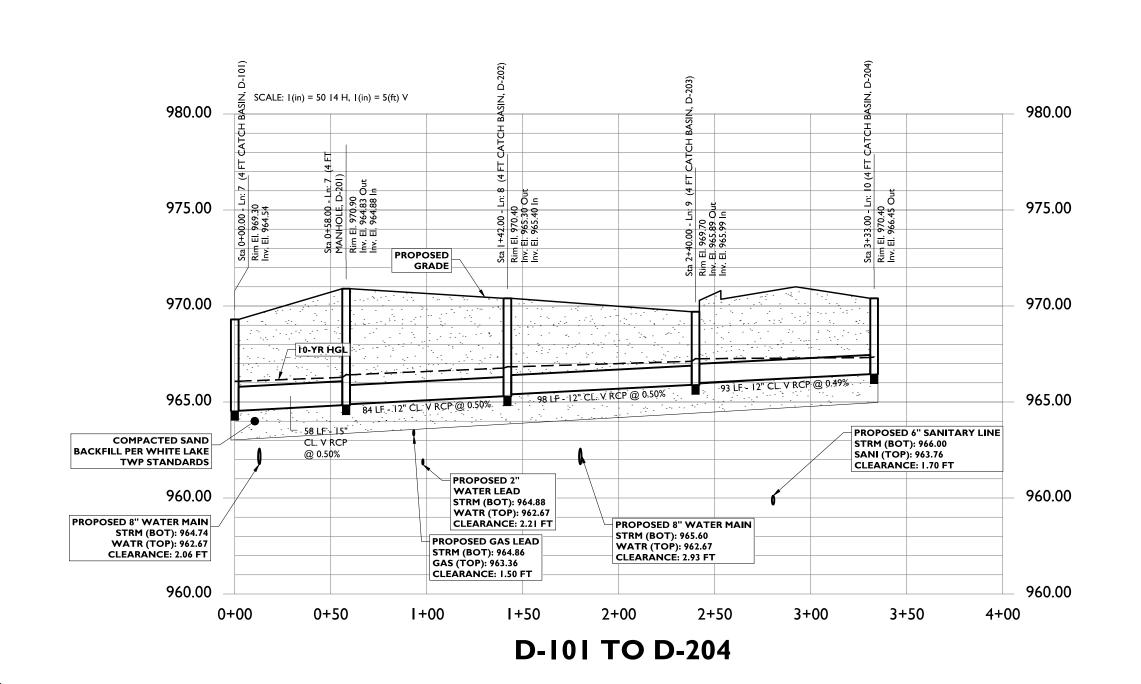
EW-2 TO D-501

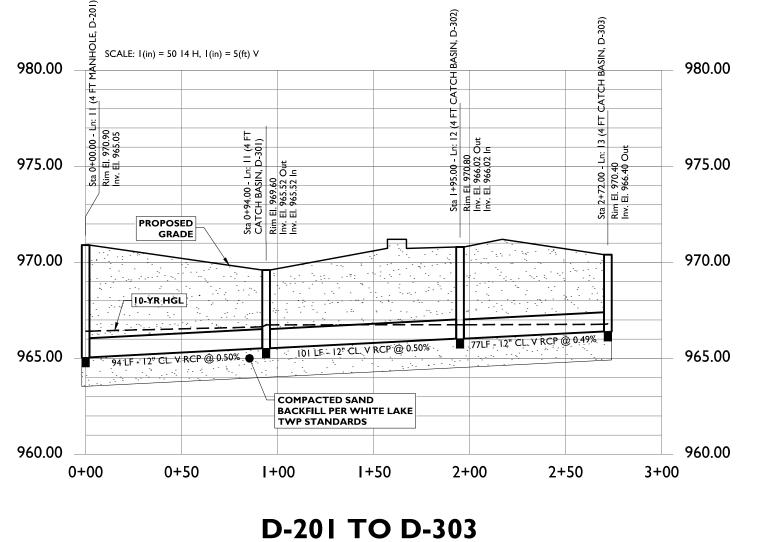






EW-3 TO D-601





CROSSINGS. ALL SANITARY LEADS SHALL BE ENCASED AT WATER MAIN / LEAD CROSSINGS PER WHITE LAKE TOWNSHIP STANDARDS GRAPHIC SCALE IN FEET I" = 50' HORIZONTAL SCALE GRAPHIC SCALE IN FEET I" = 5' **VERTICAL SCALE**

CONTRACTOR TO PROVIDE

MINIMUM 18" VERTICAL

CLEARANCE AT ALL UTILITY

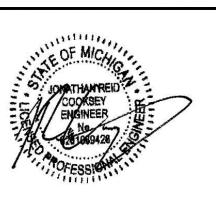
REVISED PER FSP REVIEW #2	REVISED PER FSP REVIEW #I	SUBMISSION FOR FINAL SITE PLAN APPROVAL	REVISED FOR PRELIMINARY SITE PLAN APPROVAL	REVISED PER PRELIMINARY SITE PLAN REVIEW #I	FOR SITE PLAN REVIEW	SUBMISSION FOR REVISED REZONING REQUEST	FOR PRELIMINARY MDOT REVIEW	SUBMISSION FOR REZONING	DESCRIPTION
EM	Ε	Ε	Σ	Ε	EM/JP	JRC/JP	Ε	JRC/JP	ВҮ
08/12/2025	06/19/2025	03/07/2025	12/20/2024	10/17/2024	07/22/2024 EM/JP	04/22/2024 JRC/JP	04/15/2024	11/29/2023 JRC/JP	DATE
6	&	7	9	22	4	٣	2	_	ISSUE



ROAD AND SED COMMERCIA OPMENT

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PROPO DEVEL

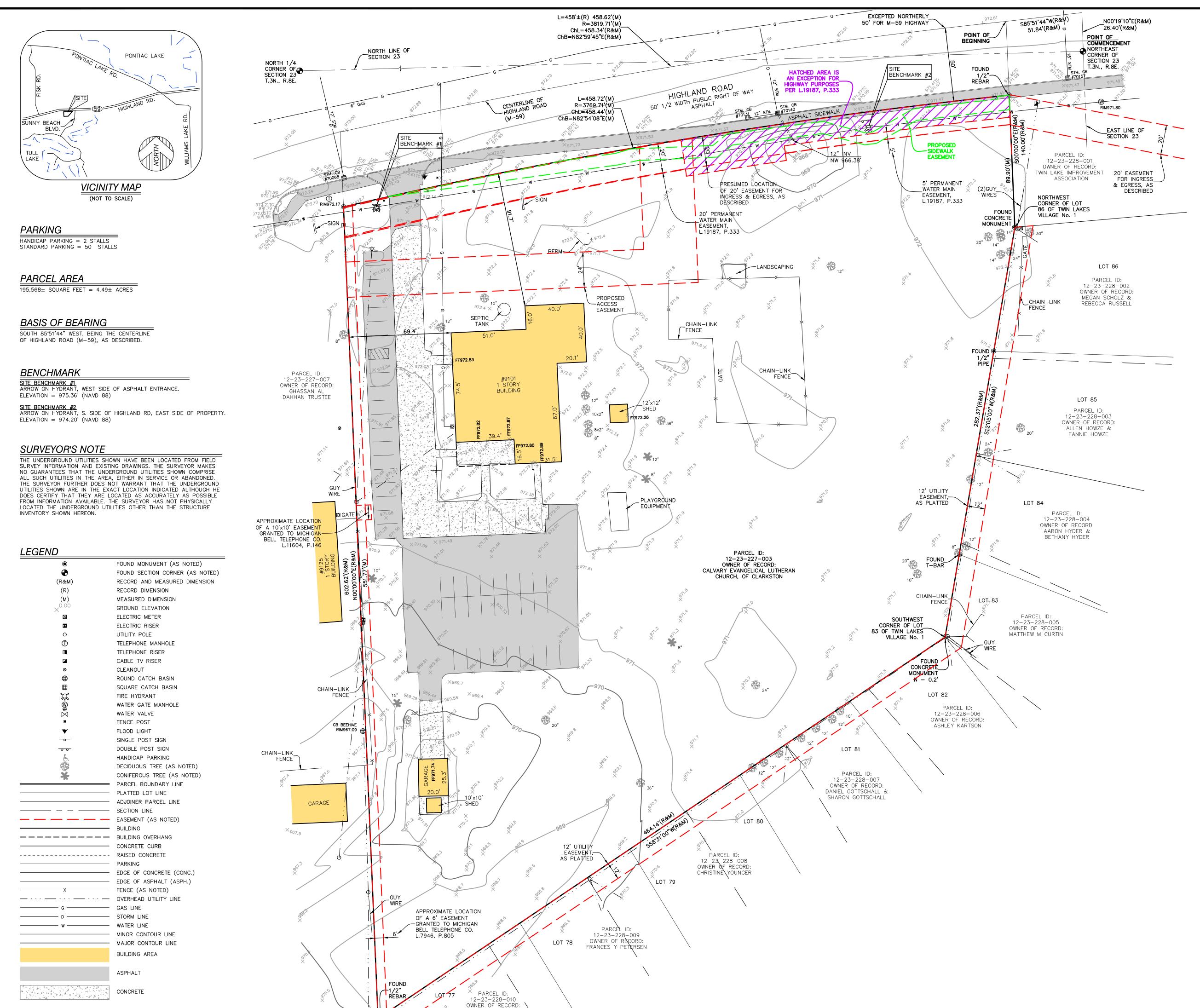




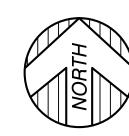
STONEFIELD engineering & design

I" = 30' PROJECT ID: DET-230229 **UTILITY & STORMWATER PROFILES**

DRAWING:



JOAN HARVEY



GRAPHIC SCALE

PRC SUF SEF SEF

SURVE NG AND DESI MICHIGAN,

17/

NSPS

ALTA/ PREPARED 9101 P

0 15 30 60 (IN FEET) 1 inch = 30 ft.

PROPERTY DESCRIPTION

THE LAND SITUATED IN THE TOWNSHIP OF WHITE LAKE, COUNTY OF OAKLAND, STATE OF MICHIGAN, IS DESCRIBED AS FOLLOWS:

PART OF THE EAST 1/2 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 14, AND EAST 1/2 OF THE NORTHEAST 1/4 OF SECTION 23, TOWN 3 NORTH, RANGE 8 EAST, DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHEAST CORNER OF SECTION 23, WHICH IS ALSO A COMMON CORNER TO SECTIONS 13, 14 AND 24, TOWN 3 NORTH, RANGE 8 EAST, AND RUNNING THENCE NORTH OO DEGREES 19 MINUTES 10 SECONDS EAST 26.40 FEET TO THE CENTERLINE OF HIGHLAND ROAD (M-59), THENCE SOUTH 85 DEGREES 51 MINUTES 44 SECONDS WEST 51.84 FEÈT ALONG SAID CENTERLINE TO THE POINT OF BEGINNING OF THIS DESCRIPTION; THENCE SOUTH 140.00 FEET TO A MONUMENT, WHICH IS THE NORTHWEST CORNER OF LOT 86 OF TWIN LAKES VILLAGE NO. 1; THENCE SOUTH 12 DEGREES 05 MINUTES 00 SECONDS WEST 282.37 FEET TO A MONUMENT WHICH IS THE SOUTHWEST CORNER OF LOT 83 OF SAID TWIN LAKES VILLAGE NO. 1, THENCE SOUTH 58 DEGREES 31 MINUTES 00 SECONDS WEST 464.14 FEET; THENCE NORTH 602.62 FEET TO THE CENTERLINE OF HIGHLAND ROAD (M-59), THENCE EASTERLY ALONG SAID CENTERLINE WHICH IS ON A CURVE TO THE RIGHT, WHOSE CHORD BEARS NORTH 82 DEGREES 59 MINUTES 45 SECONDS EAST 458.34 FEET, A DISTANCE ALONG THE CURVE OF 458.00 FEET MORE OR LESS TO THE POINT OF BEGINNING OF THIS DESCRIPTION, EXCEPTING THE NORTHERLY 50 FEET THEREOF SITUATED WITHIN M-59 HIGHWAY.

TOGETHER WITH AN EASEMENT FOR INGRESS AND EGRESS OVER A 20 FOOT PRIVATE ROAD WHOSE CENTERLINE IS DESCRIBED AS FOLLOWS: COMMENCING AT A POINT AT THE INTERSECTION OF THE CENTERLINE OF HIGHLAND ROAD (M-59) AND THE WEST RIGHT OF WAY LINE OF SUNNYBEACH BOULEVARD IN SECTION 13, TOWN 3 NORTH, RANGE 8 EAST, AND RUNNING THENCE SOUTH 00 DEGREES 00 MINUTES 54 SECONDS EAST 29.01 FEET TO THE SOUTH LINE OF SAID SECTION 13; THENCE CONTINUING SOUTH 00 DEGREES 00 MINUTES 54 SECONDS EAST 73.99 FEET OVER AND ACROSS SAID SOUTH SECTION LINE TO A POINT LOCATED IN SECTION 24 WHERE THE CENTERLINE OF THE PRIVATE ROAD RIGHT OF WAY INTERSECTS THE WEST RIGHT OF WAY LINE OF SUNNYBEACH BOULEVARD, WHICH IS THE POINT OF BEGINNING OF SAID PRIVATE ROAD RIGHT OF WAY; THENCE NORTH 76 DEGREES 27 MINUTES 33 SECONDS WEST 154.31 FEET TO THE EAST LINE OF SAID 5 ACRES DESCRIBED AS THE CAPTIONED LAND ABOVE.

SUBJECT TO A 20 FEET EASEMENT FOR INGRESS AND EGRESS OVER THAT PART OF SAID DESCRIBED 5 ACRES OF LAND, THE CENTERLINE OF SAID EASEMENT IS DESCRIBED AS FOLLOWS: COMMENCING AT A POINT ON THE EAST LINE OF SAID 5 ACRE PARCEL OF LAND DISTANT SOUTH 60.00 FEET FROM THE NORTHEAST CORNER THEREOF, THENCE RUNNING ALONG A CURVE TO THE LEFT PARALLEL TO THE STATE HIGHWAY M-59 RIGHT OF WAY TO THE WEST LINE OF SAID 5 ACRES DESCRIBED AS THE CAPTIONED LAND ABOVE.

TITLE REPORT NOTE

ONLY THOSE EXCEPTIONS CONTAINED WITHIN THE OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY FILE NO. 63-18598786-SCM, REVISION 3, DATED AUGUST 21, 2023, AND RELISTED BELOW WERE CONSIDERED FOR THIS SURVEY. NO OTHER RECORDS RESEARCH WAS PERFORMED BY THE CERTIFYING SURVEYOR.

8. RIGHT OF WAY GRANTED TO MICHIGAN BELL TELEPHONE COMPANY FOR CONSTRUCTION, OPERATION AND MAINTENANCE OF LINES OF COMMUNICATION RECORDED IN LIBER 7946, PAGE 805, OAKLAND COUNTRY RECORDS. (AS SHOWN)

9. EASEMENT GRANTED TO MICHIGAN BELL TELEPHONE COMPANY FOR CONSTRUCTION, OPERATION AND MAINTENANCE OF COMMUNICATION FACILITIES RECORDED IN LIBER 11604, PAGE 146, OAKLAND COUNTY RECORDS. (AS SHOWN)

10. EASEMENT GRANTED TO THE CHARTER TOWNSHIP OF WHITE LAKE FOR CONSTRUCTION, OPERATION AND MAINTENANCE OF WATER MAIN RECORDED IN LIBER 19187, PAGE 333, OAKLAND COUNTY RECORDS. (AS SHOWN)

MANHOLE SCHEDULE

NUM	TYPE	RIM (FT)	SIZE (IN)	DIR	INV ELEV (FT)
70065	CATCH BASIN	971.68	12	N	968.03
70131	CATCH BASIN	970.71	12	Ε	966.71
70140	CATCH BASIN	970.70	12	W	966.50
		970.70	12	Ν	966.45
		970.70	12	S	966.55
70157	CATCH BASIN	971.02	18	N	964.12

SURVEYOR'S CERTIFICATION

TO AFFINITY 10 INVESTMENTS, LLC, A MICHIGAN LIMITED LIABILITY COMPANY; OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY; ATA NATIONAL TITLE GROUP, LLC; AND STONEFIELD ENGINEERING AND DESIGN:

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 2, 4, 5, 7A, 8, 9, 11A, AND 11B OF TABLE A, THEREOF. THE FIELD WORK WAS COMPLETED ON 09/14/23.

DATE OF PLAT OR MAP: 09/28/23



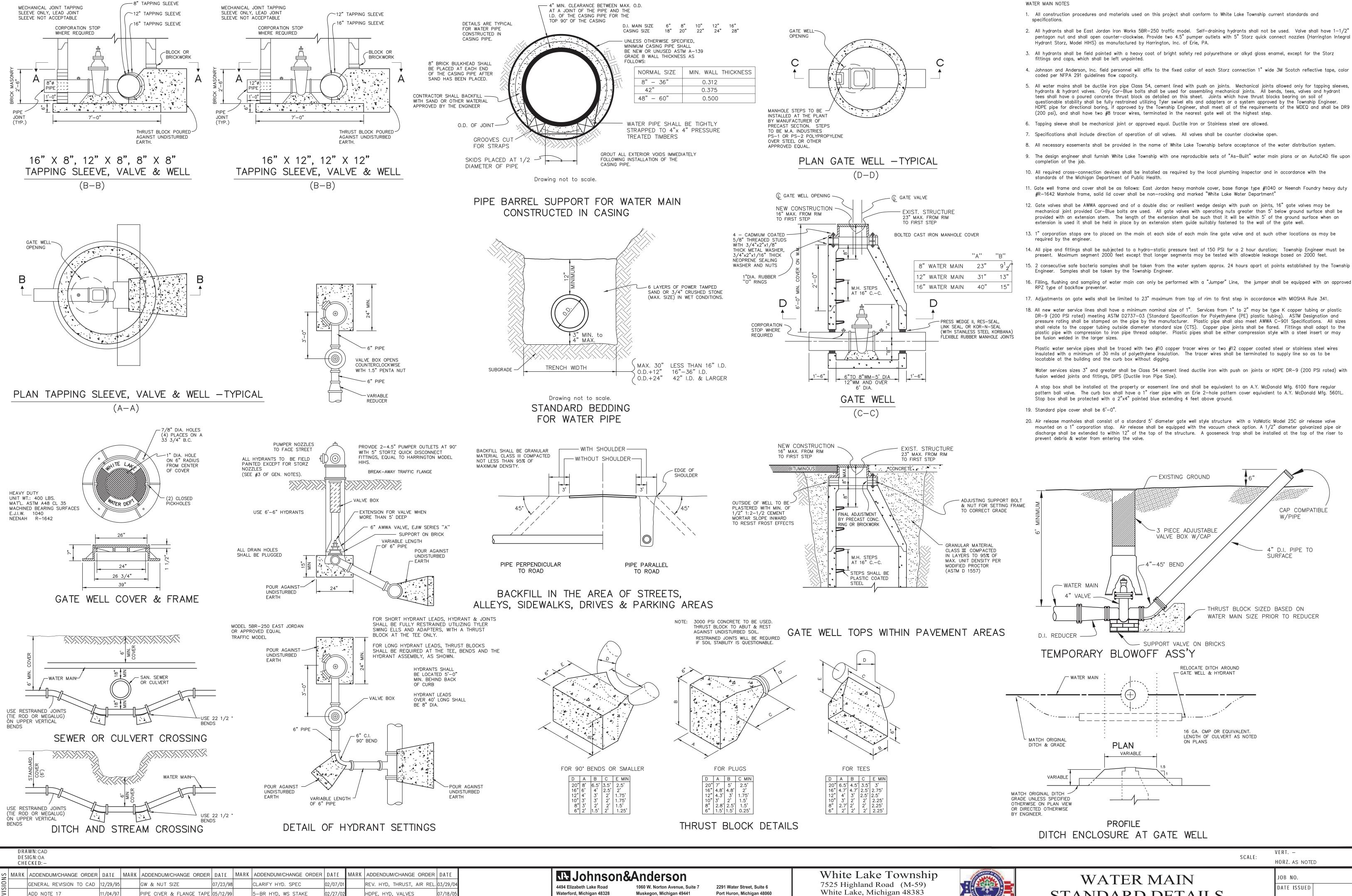
ANTHONY T. SYCKO, JR., P.S.
PROFESSIONAL SURVEYOR
MICHIGAN LICENSE NO. 47976
22556 GRATIOT AVE., EASTPOINTE, MI 48021

TSycko@kemtec-survey.com



HO IN

1 OF 1 SHEETS



tel (248) 681-7800 fax (248) 681-2660 tel (231) 780-3100 fax (231) 780-3115 tel (810) 987-7820 fax (810) 987-7895

248-698-3300

HDPE, HYD, VALVES

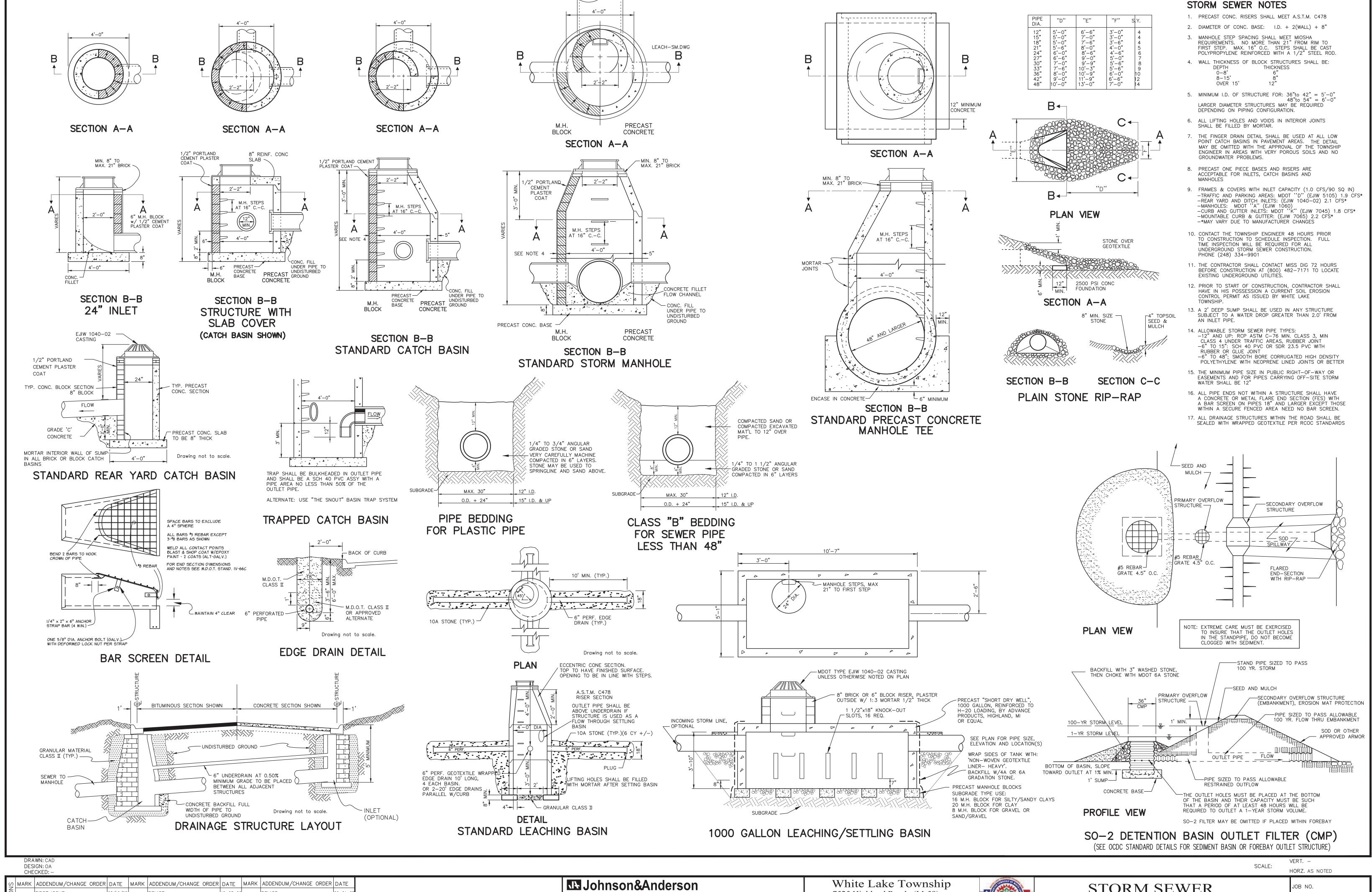
ADD NOTE 19

07/06/99

REVISE HYD. & THRUSTING 05/18/98

ADD BLOWOFF

UPDATED TITLE BLOCK



STORM SEWER

08/16/95

06-17-96

FIRST ISSUE

ADD SO-1

NEW BAR GRATE

REVISE

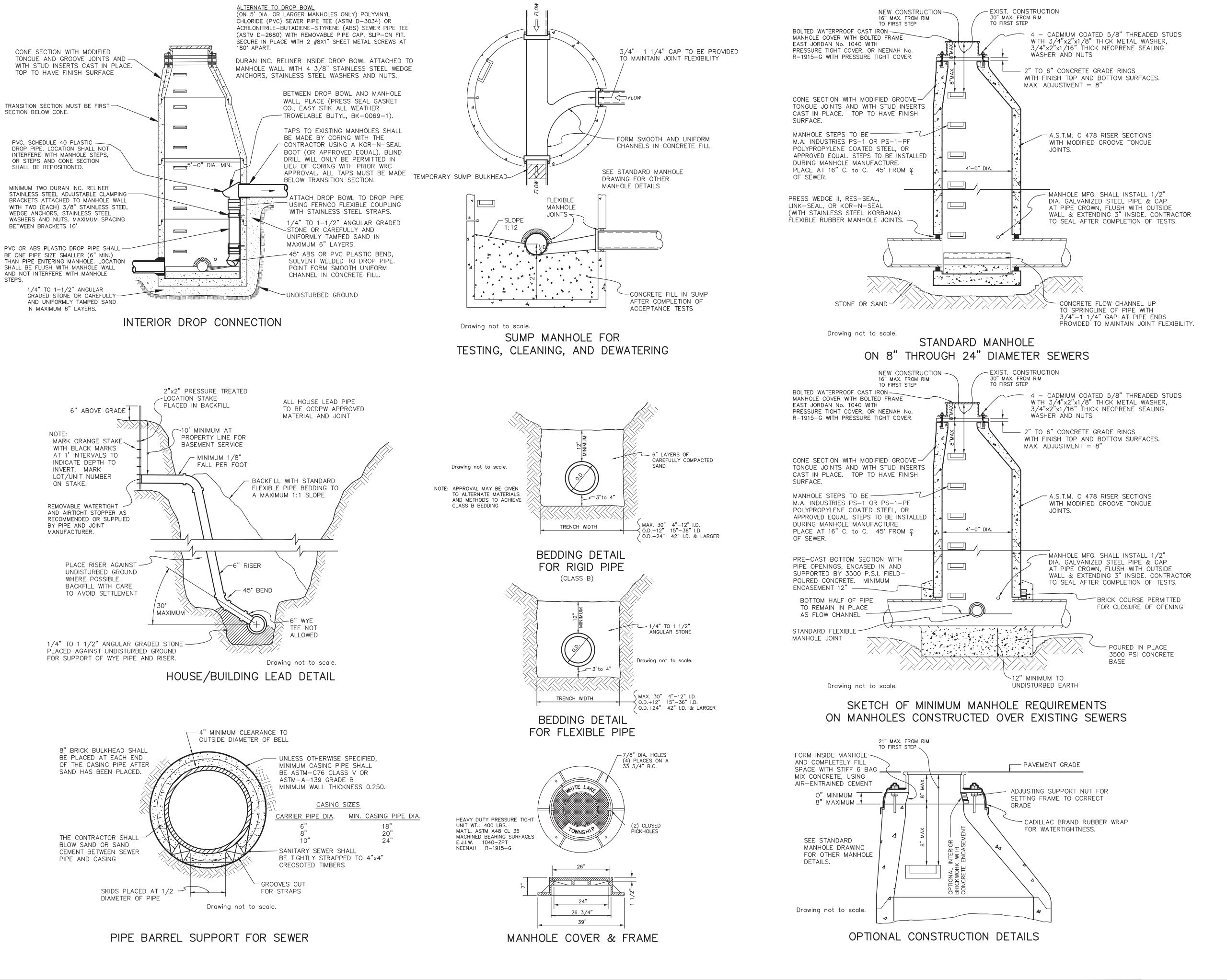
REVISE

10-03-02

12-17-03

UPDATED TITLE BLOCK

04/30/13



SANITARY SEWER CONSTRUCTION NOTES

- 1. All construction shall conform to the current standards and specifications of the local unit of government and the Oakland County Water Resources Commissioner (OCWRC). All sanitary sewer construction shall have full time inspection supervised by a professional engineer provided by or caused to be provided by the local unit of government.
- 2. At all connections to Oakland County Water Resources Commissioner's sewers or extensions, and before start of construction, the Contractor must obtain a Sewer Inspection Permit issued by the OCWRC. Gravity sewer permit charges are \$250.00 for each connection plus \$25.00 for each manhole constructed. Pressure sewer permit charges are \$250.00 per 2460 L.F. of force main with a minimum permit fee of \$250.00. Failure to pass any test segment will result in an additional charge to the Contractor for each retest, in accordance with the above price schedule. The Contractor shall also have posted with the OCWRC a \$5,000.00 surety bond and \$500.00 cash deposit. The Contractor shall notify the local unit of government and the OCWRC (248-858-1110) 24 hours prior to the beginning of any construction. Final acceptance tests must be witnessed by County personnel and must be scheduled by Municipality or It's consultant in advance with 24 hour notice at 248-858-1110.
- 3. No sewer installation shall have an infiltration or exfiltration exceeding 100 gallons per inch diameter per mile of pipe in a 24 hour period, and no single run of sewer between manholes shall exceed 100 gallons per inch diameter per mile. Air tests in lieu of infiltration tests shall be as specified in the OCWRC "Acceptance Tests", dated September, 1972. Only pipe and pipe joints approved by the Oakland County Water Resources Commissioner may be used for sanitary sewer construction.
- 4. Located in the first manhole upstream from the point of all connections to an existing OCWRC sewer, or extension thereto, a temporary 12-inch deep sump shall be provided in the first manhole above the connection which will be filled in after such successful completion of any acceptance test up to the standard fillet provided for the flow channel. A watertight bulkhead shall be provided on the downstream of the sump manhole.
- 5. All building leads and risers shall be 6—inch S.D.R. 23.5 ABS OR PVC pipe with chemically fused joints, or an approved equal pipe and joint. Sewer pipe wye shall contain factory installed premium joint material of an approved type compatible with that of the building lead pipe used. Building leads to be furnished with removable air tight and water—tight stoppers.
- 6. All rigid sewer pipe shall be installed in Class "B" bedding or better. All flexible, semi-flexible or composite sewer pipe shall be installed in conformance to the Oakland County Water Resources Commissioner specifications.
- All new manholes shall have Oakland County Water Resources Commissioner approved flexible, water—tight seals where pipes pass through walls. Manholes shall be of precast sections with modified groove tongue and rubber gasket type joints. Precast manhole cone sections shall be Oakland County Water Resources Commissioner approved modified eccentric cone type. All manholes shall be provided with bolted, water—tight covers.
- 8. At all connections to manholes on Oakland County Water Resources Commissioner's sewers or extensions thereto drop connections will be required when the difference in invert elevations exceeds 18-inches. Outside drop connections only will be approved.
- 9. Taps to existing manholes shall be made by coring. The Contractor shall place a KOR-N-SEAL boot (or OCWRC approved equal) after coring is completed. Blind drilling will not be permitted in lieu of coring.
- 10. New manholes constructed directly on Oakland County Water Resources Commissioner's sewers shall be provided with covers reading "Oakland County — Sanitary" in raised letters. New manholes built over an existing sanitary sewer shall have monolithic poured bottoms.
- 11. No ground water, storm water, construction water, downspout drainage or weep tile drainage shall be allowed to enter any sanitary sewer installation.
- 12. Prior to excavation, the Contractor shall telephone MISS DIG (647-7344) for the location of underground pipeline and cable facilities, and shall also notify representatives of other utilities located in the vicinity of the work.
- 13. 18" minimum vertical separation and 10' minimum horizontal separation must be maintained between sanitary sewer and water main.
- 14. Manhole frame and cover shall be as follows: East Jordan heavy manhole cover, base flange type #1040 or Neenah Foundry heavy duty #R-1642 manhole frame. Solid lid cover shall be non-rocking and marked "WHITE LAKE TOWNSHIP SEWER DEPARTMENT.'

DRAWN: CAD DESIGN: OA CHECKED: -

UPDATED NOTES

MARK ADDENDUM/CHANGE ORDER DATE | MARK ADDENDUM/CHANGE ORDER DATE | MARK ADDENDUM/CHANGE ORDER DATE CWRC COMMENTS 11/06/15 09/11/97 FIRST ISSUE UPDATED TITLE BLOCK 04/30/13

02/17/15

Johnson&Anderson

Waterford, Michigan 48328

1060 W. Norton Avenue, Suite 7 2291 Water Street, Suite 6 Muskegon, Michigan 49441 Port Huron, Michigan 48060 tel (248) 681-7800 fax (248) 681-2660 tel (231) 780-3100 fax (231) 780-3115 tel (810) 987-7820 fax (810) 987-7895 White Lake Township 7525 Highland Road (M-59) White Lake, Michigan 48383 248-698-3300



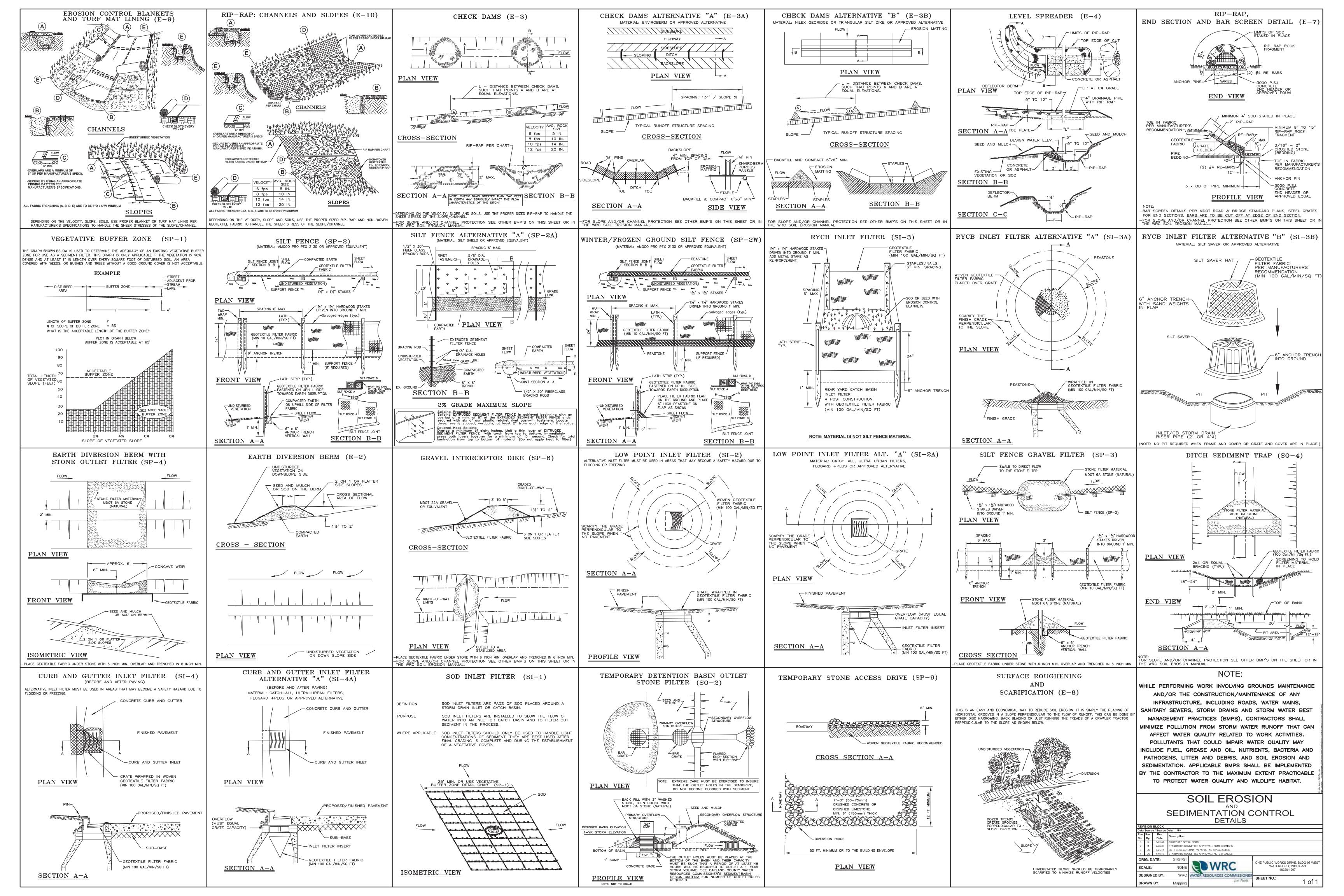
SANITARY SEWER STANDARD DETAILS HORZ. AS NOTED OB NO. DATE ISSUED

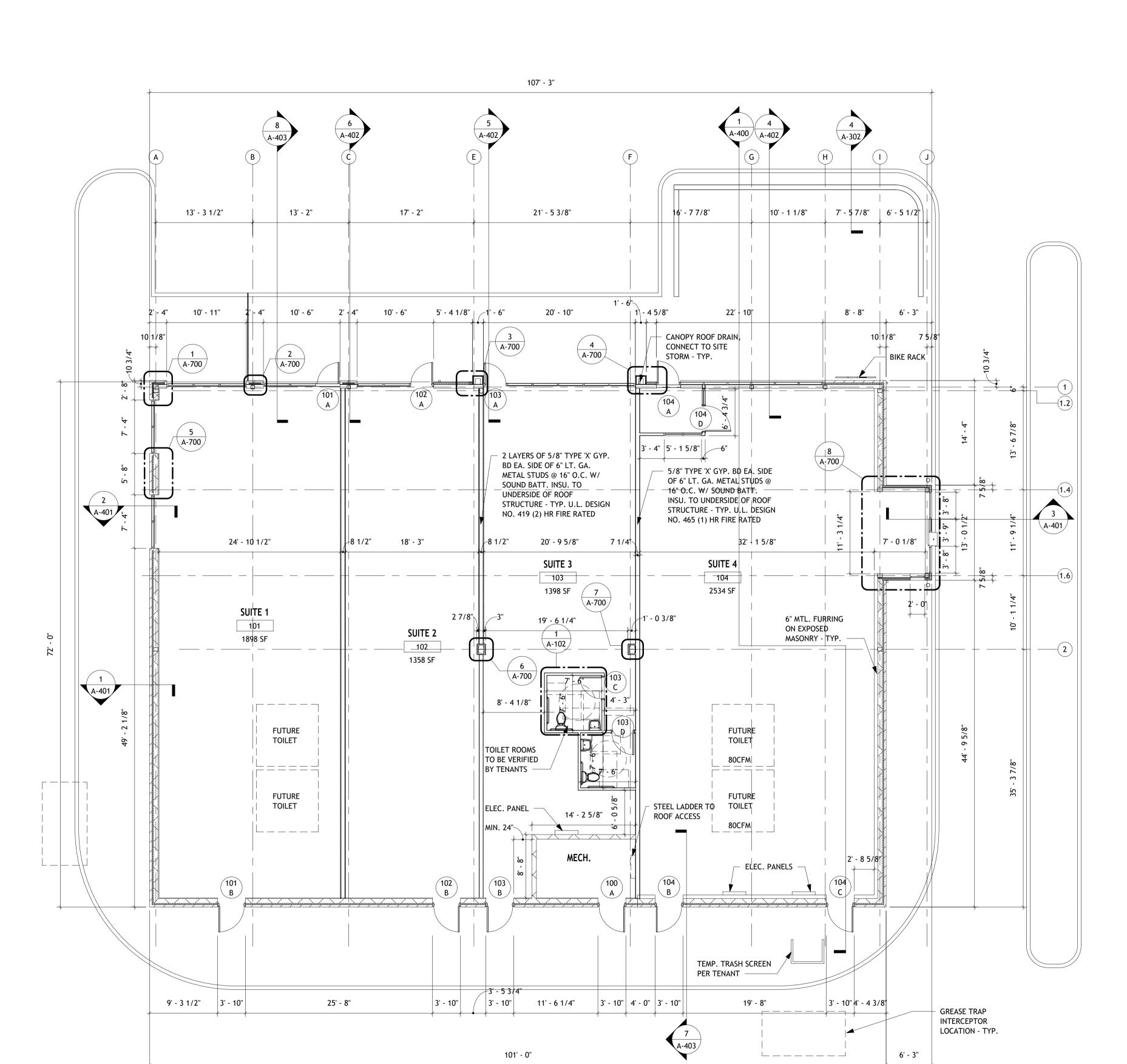
09/11/97

SHEET NO.

VERT. —

SCALE:





FLOOR PLAN - WEST BUILDING

SCALE: 1/8" = 1'-0"



CONSULTANT + NAM

WHITE LAKE
RETAIL
9109 HIGHLAND RD

PROJECT + NUMBER

23-306

ISSUE + DATE

21 AUG 2024 REV

17 OCT 2024 SPLAN

14 NOV 2024 BID

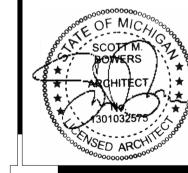
19 DEC 2024 SPLAN

13 MAR 2025 SPLAN

29 MAY 2025 SPLAN

5 AUG 2025 REV

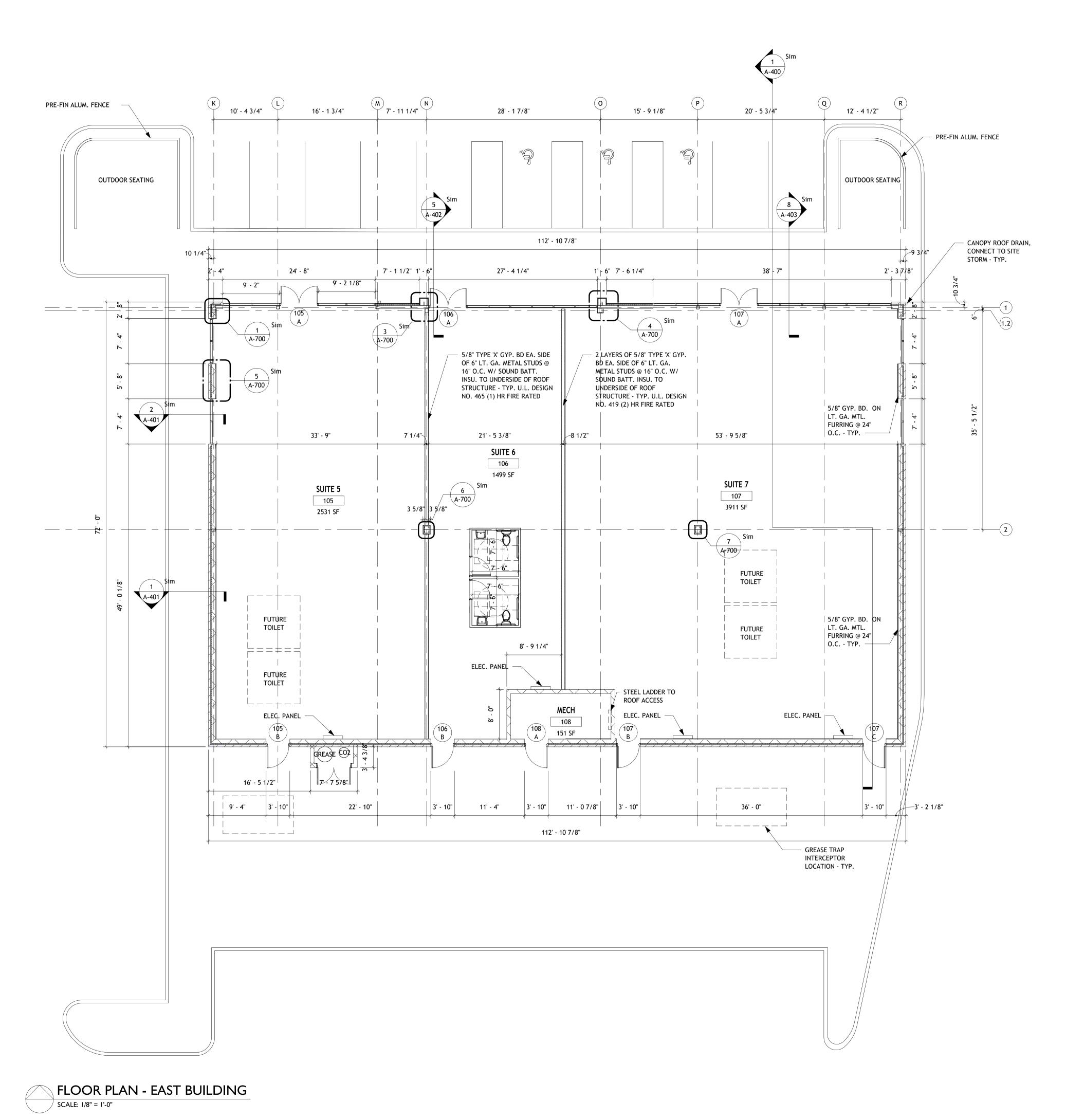
12 AUG 2025 REV



SHEET + TITLE FLOOR PLANS - WEST BUILDING

SHEET + NUMBER

A-100





CONSULTANT + NAM

WHITE LAKE
RETAIL
9109 HIGHLAND RD

PROJECT + NUMBER

23-306

ISSUE + DATE

21 AUG 2024 REV

17 OCT 2024 SPLAN

14 NOV 2024 BID

19 DEC 2024 SPLAN

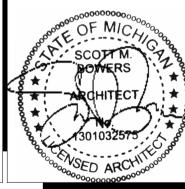
13 MAR 2025 SPLAN

SPLAN

REV

REV

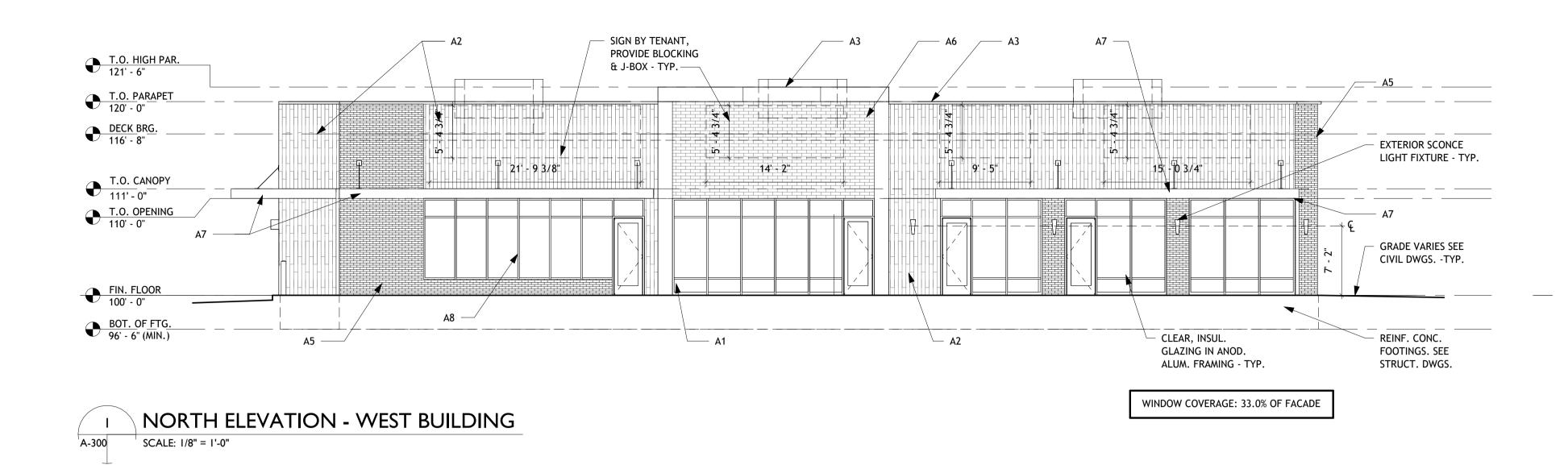
19 DEC 2024 13 MAR 2025 29 MAY 2025 5 AUG 2025 12 AUG 2025

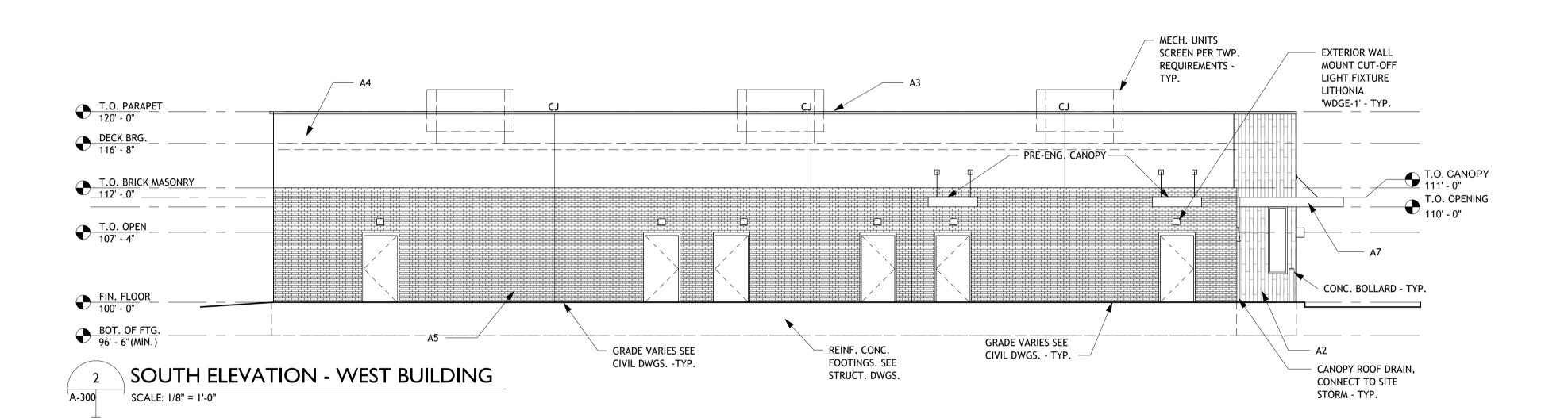


SHEET + TITLE FLOOR PLAN - EAST BUILDING

SHEET + NUMBER

A-101





	EXI	ERIOR FINISHES LEG	END		
TAG	MATERIAL	MANUF/STYLE	COLOR	FINISH / STYLE	FASTENER TYPI
A1	FIBER CEMENT PANELS	NICHIHA	DARK METAL		
A2	FIBER CEMENT PANELS	NICHIHA			
A3	PREFIN. METAL COPING	PAC-CLAD OR	TO MATCH RAL #7021	ANODIZED	
		EQUAL TO MATCH	MATTE BLACK STEEL -		
			MT0028 - FLAT ROCK		
A4	EXTERIOR INSULAION FINISH SYSTEM (EIFS)	DRYVIT	COLOR TO MATCH SW	SANDBLAST	
			7030 ANEW GRAY	TEXTURE	
A5	BRICK VENEER	BELDEN BRICK			
A6	BRICK VENEER	GLEN-GERY	ASPEN WHITE		
A7	PREFIN. METAL CANOPY	TBD	TO MATCH RAL #7021	PRE-FINISHED	
A8	PREFIN. ALUM	TBD	TO MATCH RAL #7021	PRE-FINISHED	

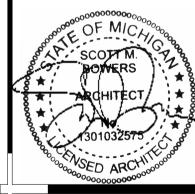


PROJECT.
WHIT

PROJECT + NUMBER

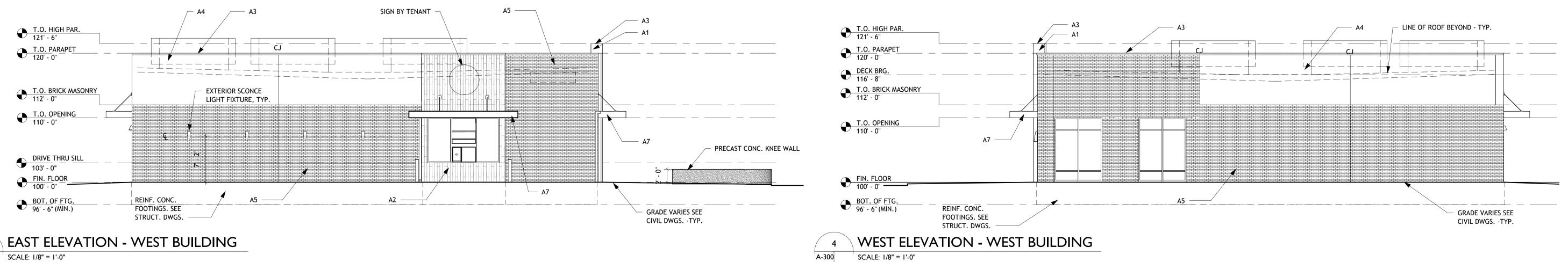
23-306

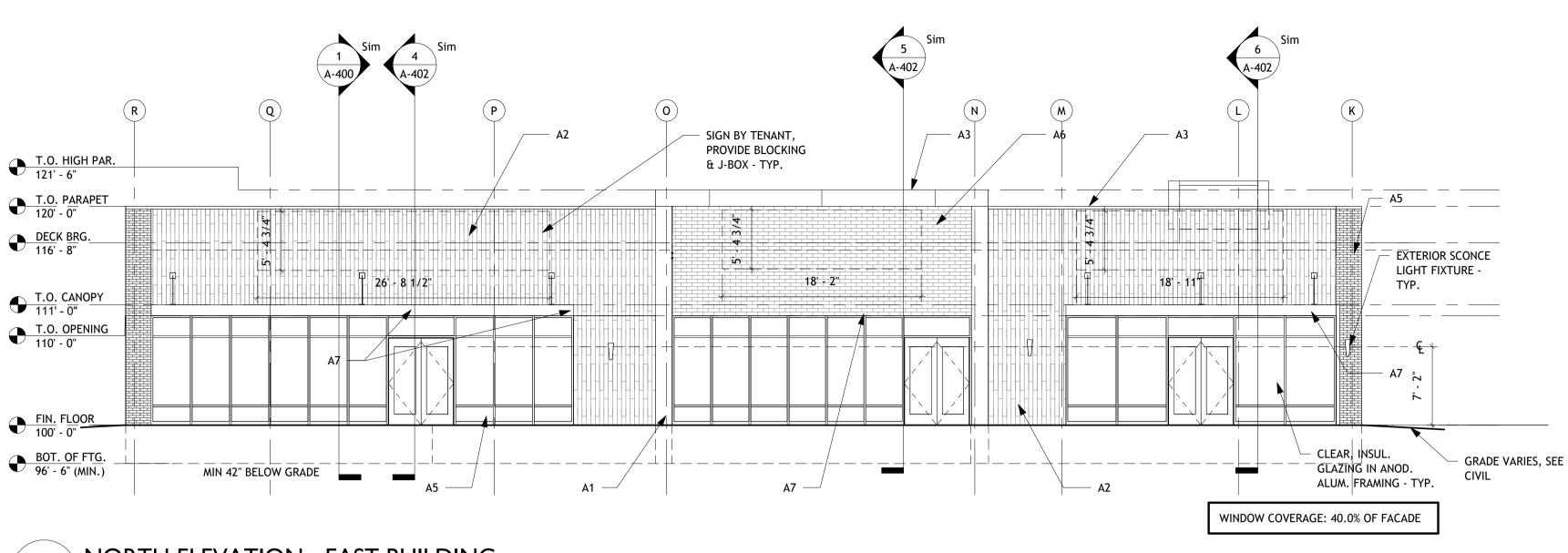




SHEET + TITLE ELEVATIONS - WEST BUILDING

SHEET + NUMBER A-300







A-301

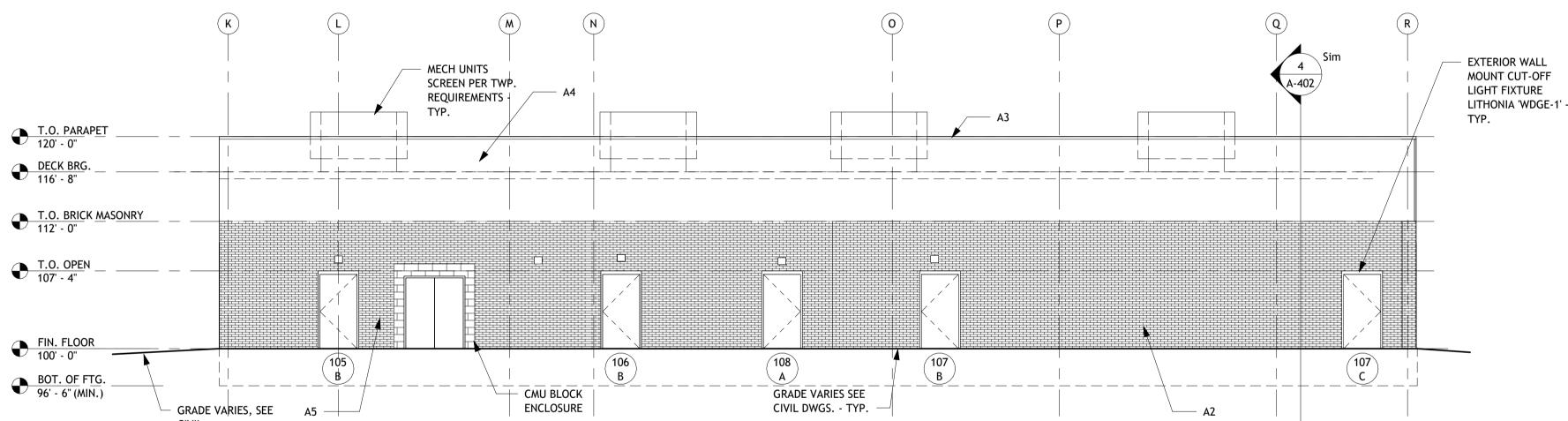
A-301

SCALE: 1/8" = 1'-0"

NORTH ELEVATION - EAST BUILDING

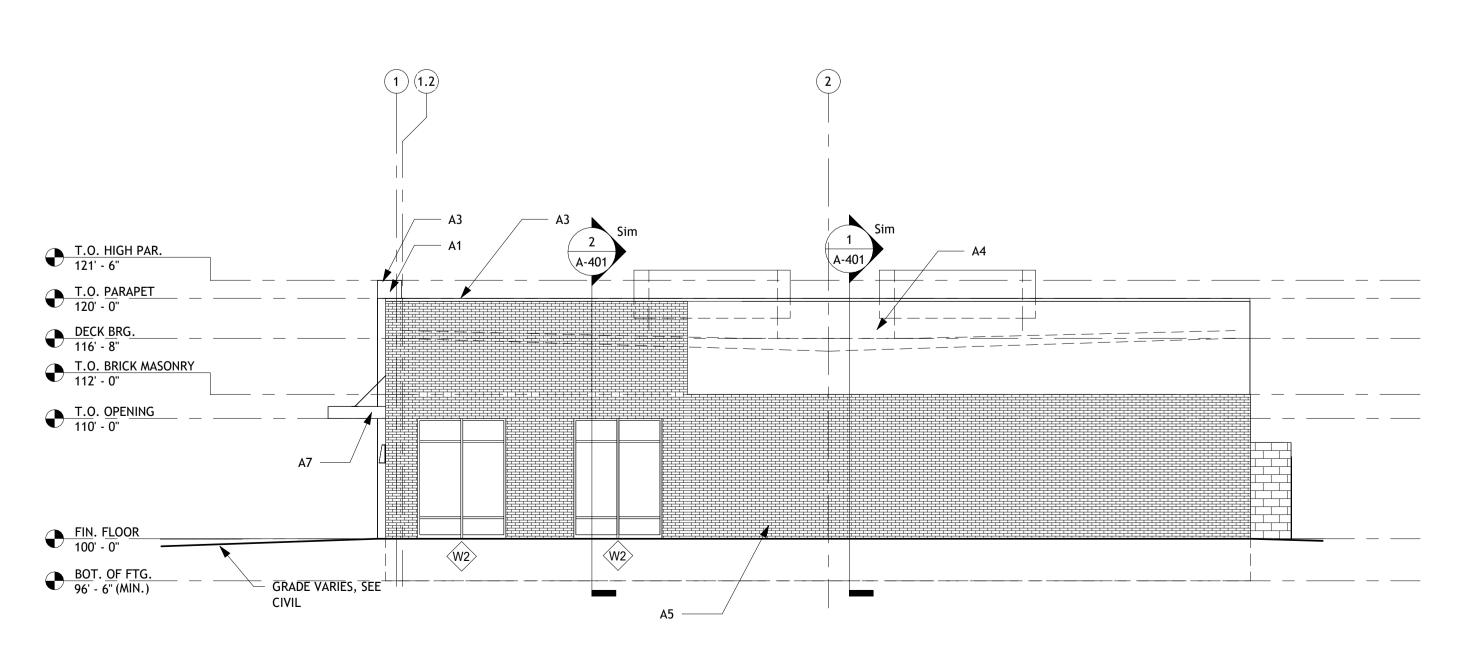
SOUTH ELEVATION - EAST BUILDING

SCALE: 1/8" = 1'-0"



- GRADE VARIES, SEE CIVIL

(1.2) (1) LINE OF ROOF BEYOND - TYP. T.O. HIGH PAR.
121' - 6"
T.O. PARAPET
120' - 0" DECK BRG. 116' - 8" T.O. BRICK MASONRY
__112' - 0" ____ T.O. CANOPY 111' - 0" FIN. FLOOR 100' - 0" W2> W2> — GRADE VARIES, SEE BOT. OF FTG. 96' - 6" (MIN.) CANOPY ROOF DRAIN,
 CONNECT TO SITE
 STORM - TYP.



WEST ELEVATION - EAST BUILDING A-301 SCALE: 1/8" = 1'-0"

SHEET + TITLE ELEVATIONS - EAST BUILDING

PROJECT
WHI
RET

PROJECT + NUMBER

23-306

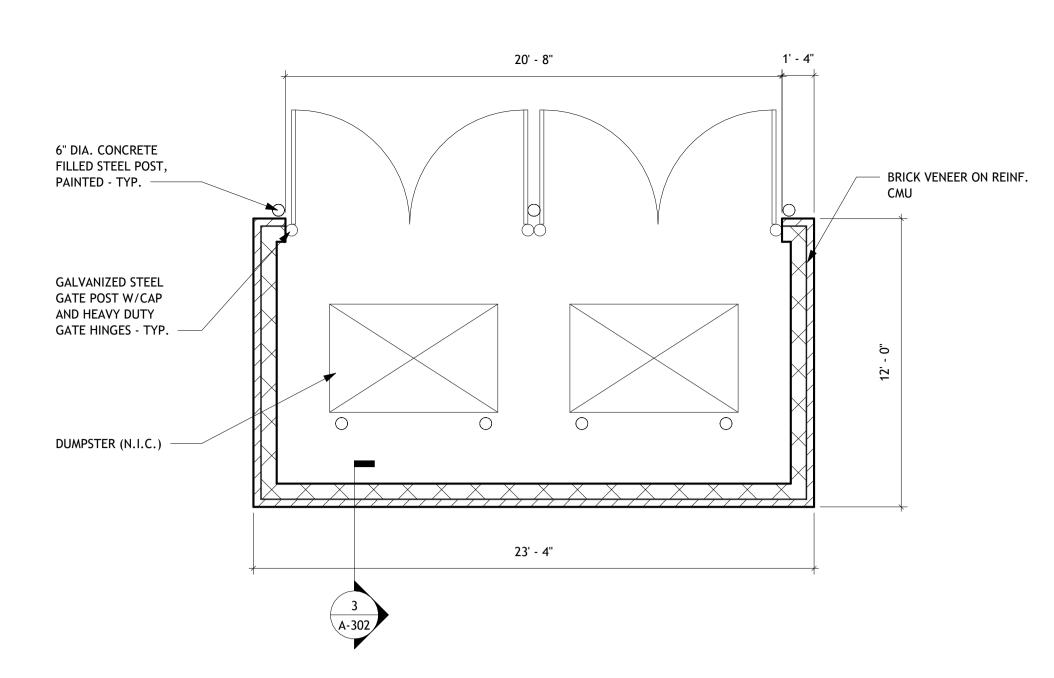
ISSUE + DATE

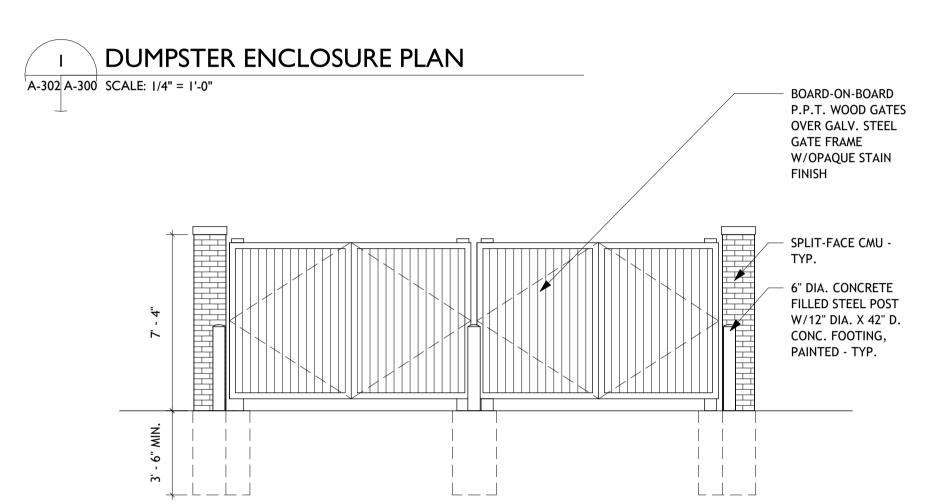
2400 SOUTH HURON PARKWAY
ANN ARBOR, MI 48104
P: 734.975.2400
WWW.BOWERSARCH.COM

SHEET + NUMBER

EAST ELEVATION - EAST BUILDING SCALE: 1/8" = 1'-0"

A-301



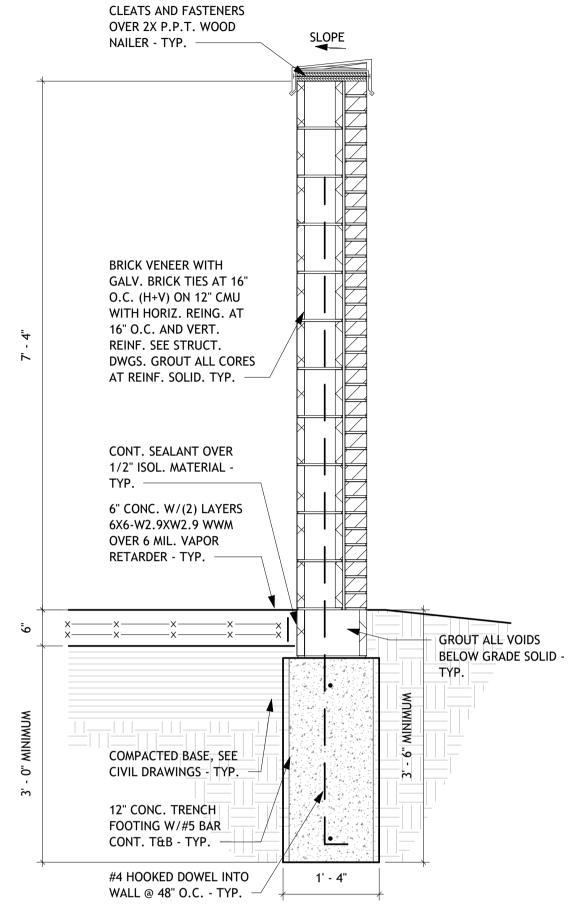




OBSCURING FENCE

A-302

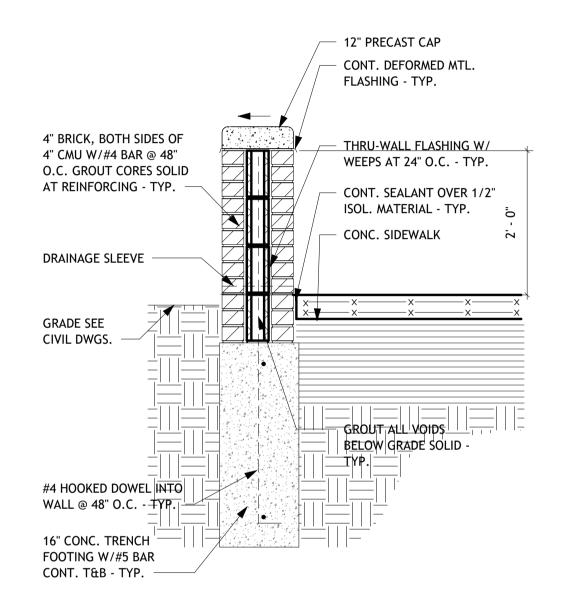




PREFINISHED METAL

COPING W/ CONCEALED





4 KNEE WALL DETAIL
A-302 A-100 SCALE: 3/4" = 1'-0"

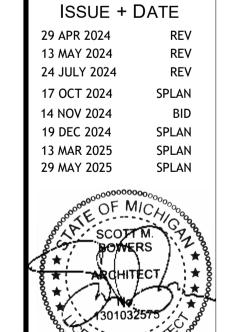


CONSULTANT + NAME

WHITE LAKE
RETAIL
9109 HIGHLAND RD

PROJECT + NUMBER

23-306



SHEET + TITLE

DUMPSTER ENCLOSURE
ELEVATIONS

SHEET + NUMBER

A-302



SHEET + TITLE MONUMENT SIGN DETAILS

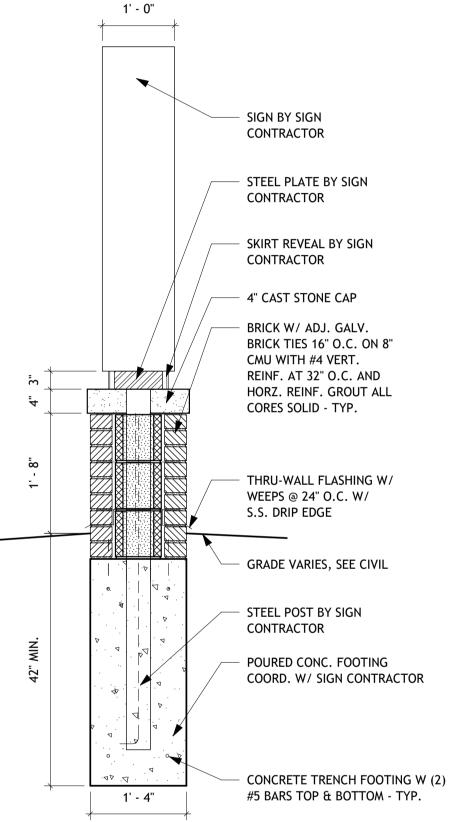
SHEET + NUMBER

SP-100

- SIGN BY SIGN CONTRACTOR - STEEL PLATE BY SIGN CONTRACTOR SKIRT REVEAL BY SIGN CONTRACTOR 4" STONE CAP BY GENERAL CONTRACTOR BRICK TO MATCH **BUILDING FACADE** - GRADE VARIES, SEE CIVIL DWGS. BELOW GRADE CONDUIT STUB BY `_____ STEEL POST BY SIGN CONTRACTOR L-----FOOTING POURED BY SIGN CONTRACTOR

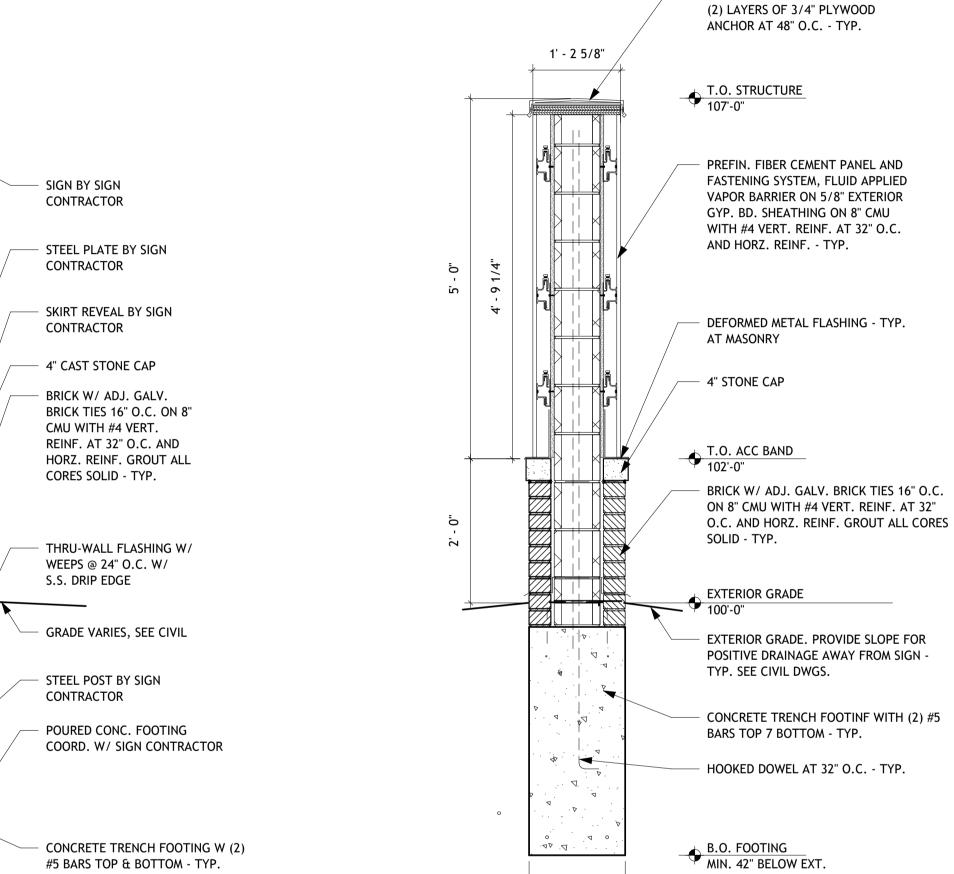
GROUND SIGN DETAIL

SCALE: 3/4" = 1'-0"









PREFIN. METAL COPING WITH CONCEALED CLEATS ON CONT.

GRADE

1' - 4"

SP-200 SP-200 SCALE: 3/4" = 1'-0"

SIGN SECTION



WHITE LAKE TWP, MICHIGAN

BOWERS+ASSOCIATES

ARCHITECTURE DESIGN



WHITE LAKE TWP, MICHIGAN



WHITE LAKE TOWNSHIP NOTICE OF PUBLIC HEARING

Notice is hereby given that the Planning Commission of the Charter Township of White Lake will hold a public hearing on **Thursday, September 18, 2025, at 6:30 P.M.** at the Township Annex, 7527 Highland Road, White Lake, Michigan 48383, to consider the following request for Special Land Use Approval, under Zoning Ordinance No. 58 – Article 4, Section 18, Eating Establishments with Entertainment and/or Outdoor Dining.

Property described as 9101 Highland Road, identified as parcel number 12-23-227-003, located south of Highland Road, west of Sunnybeach Boulevard, consisting of approximately 5.02 acres.

Applicant is requesting to construct three restaurants with three total outdoor dining areas.

Persons interested are requested to be present. Pertinent information relative to this special land use request is on file at the Community Development Department and may be examined at any time during the summer business hours of 8:00 a.m. to 5:00 p.m., Monday through Thursday, and 8:00 a.m. to 12:00 p.m. on Friday (excluding holidays). Persons interested may visit the White Lake Community Development Department, contact the White Lake Community Development Department by telephone at 248-698-3300, ext. 5, or attend the Public Hearing on the date specified. Written comments are also welcome at 7525 Highland Road, White Lake, MI 48383. Individuals with disabilities requiring auxiliary aids or services should contact the Clerk's Office at least 5 days before the hearing.

Sean O'Neil, AICP Community Development Director

White Lake - 46