

#### PLANNING COMMISSION MEETING AGENDA REGULAR MEETING

Tom Krent, Chairman, Davis Lambert, Vice Chairman Ollie Apahidean, Karen Crusse, Carlton Faison, Marianna Perakis, Michael W. Hutson, Sadek Rahman and John J. Tagle

February 11, 2020 7:00 P.M. Council Chambers

- 1. ROLL CALL
- 2. APPROVAL OF AGENDA
- 3. APPROVAL OF MINUTES January 28, 2020
- 4. PUBLIC COMMENT For Items Not on the Agenda

#### **PUBLIC HEARINGS**

 PUBLIC HEARING – SPECIAL USE REQUEST (File Number SU2019-0044) – Proposed Korean United Methodist Church of Troy Parking Lot Expansion, West side of Dequindre, south of Square Lake (42693 Dequindre), Section 27, Zoned R-1C (One Family Residential) District.

#### SITE PLAN APPROVAL

6. <u>PUBLIC HEARING – SPECIAL USE REQUEST (File Number SP2020-0001)</u> – Proposed Long Lake Shell Addition, Southwest corner of Long Lake and Dequindre, Section 13, Currently Zoned NN (Neighborhood Node "J") District.

#### **OTHER BUSINESS**

- 7. <u>PUBLIC COMMENT</u> Items on Current Agenda
- 8. PLANNING COMMISSION COMMENT
- 9. ADJOURN

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Chair Krent called the Regular meeting of the Troy City Planning Commission to order at 7:00 p.m. on January 28, 2020 in the Council Chamber of the Troy City Hall.

#### 1. ROLL CALL

#### Present:

Ollie Apahidean Karen Crusse Michael W. Hutson Tom Krent David Lambert Marianna Perakis Sadek Rahman

#### Absent:

Carlton M. Faison

#### Also Present:

John J. Tagle

R. Brent Savidant, Community Development Director Ben Carlisle, Carlisle Wortman Associates Julie Quinlan Dufrane, Assistant City Attorney Jackie Ferencz, Planning Department Administrative Assistant Kathy L. Czarnecki, Recording Secretary

#### 2. APPROVAL OF AGENDA

#### Resolution # PC-2020-01-007

Moved by: Hutson Support by: Apahidean

**RESOLVED**, To approve the Agenda as prepared.

Yes: All present (8)

Absent: Faison

#### MOTION CARRIED

#### 3. APPROVAL OF MINUTES

#### Resolution # PC-2020-01-008

Moved by: Lambert Support by: Rahman

**RESOLVED**, To approve the minutes of the January 14, 2020 Regular meeting as submitted.

Yes: All present (8)

Absent: Faison

#### MOTION CARRIED

#### 4. <u>PUBLIC COMMENT</u> – Items not on the Agenda

Avis Landmesser, 568 Ottawa, asked if the number of residential units could be included in the Planning Commission Annual Report.

#### **CONDITIONAL REZONING**

PUBLIC HEARING – CONDITIONAL REZONING REQUEST (File Number CR 2019-001

 Proposed MNK TROY 1, LLC, East of Rochester, South of Shallowdale (88-20-14-152-001 and 88-20-14-301-031), Section 14, From R-1C (One Family Residential), RT (One Family Attached Residential) and EP (Environmental Protection) Districts to RT (One Family Attached Residential) District

Mr. Carlisle stated the proposed Conditional Rezoning previously considered by the Planning Commission at its October 22, 2019 meeting is revised to seek approval to rezone all portions of the two parcels to RT (One Family Attached Residential). He referenced the voluntary conditions offered by the applicant and specifically addressed the Open Space Preservation Area proposed for the EP-zoned portion. Mr. Carlisle said if the rezoning application is granted approval, additional details of the Open Space Preservation Area would need to be provided.

Mr. Carlisle briefly reviewed the initial application and comments both from the Planning Commission and the public.

Mr. Carlisle addressed the split zoning of the northern parcel and front portion of the southern parcel. He said the proposed rezoning to RT is consistent with the Master Plan, noting the site has been master planned for medium density and multiple family residential for the past 20 years. Mr. Carlisle indicated the applicant is providing increased setbacks along the northern and eastern property lines to provide additional buffer.

Mr. Carlisle addressed the eastern portion of the southern parcel that is zoned EP. He explained the applicant is seeking to use the parcel for overall density and stormwater management. He said the proposed detention pond is utilitarian in design and the double row of trees to screen is insufficient. Mr. Carlisle said that both the detention area and tree screening would not serve as an amenity to future residents of the development or adjacent residents. Mr. Carlisle said a naturalized pond area such as a bio-swale or raingarden would enhance the development.

Mr. Carlisle recommended that the Planning Commission consider the revised application, take into consideration public comments this evening and provide direction to the applicant.

John Thompson of Professional Engineering Associates distributed a handout incorporating changes in the voluntary conditions offered by the applicant. He referenced condition #3 relating to the detention basin design as a dry pond and the addition of condition #8 relating to rear yard relationship and setbacks to existing houses and condition #9 enhancement to the screening of the Open Space Easement.

Mr. Thompson stated the revisions to the application and to the conditions offered by the applicant are a result of the feedback received from the neighbors and the Planning Commission. Mr. Thompson said a major concern of the neighbors is vehicular headlights shining toward adjacent single family homes. He said the additional row of screening trees and the orientation of the buildings would address that concern. Also, Mr. Thompson said the neighbors want a dry pond. The neighbors hope a dry pond improves the existing geese problem they are having as well eliminate insects drawn to standing water. He said a utilitarian design of the dry pond is preferred both by the neighbors and City departments for easier maintenance. Mr. Thompson addressed the proposed development as relates to the Rezoning Standards.

#### PUBLIC HEARING OPENED

- Naresh Gupta, 4337 Bennett Park Circle; addressed overall development along Rochester Road corridor from I-75 to the southern border of Troy as relates to the Master Plan and density, addressed concerns with traffic impact from development.
- Jim McCauley, 4435 Harold; representative of Shallowbrook Homeowners' Association. Mr. McCauley said the neighbors met with the builders since the application was considered in October and they are in support of the proposed development at this point in time. He referenced condition #8 offered by the applicant. Mr. McCauley said the intent with the rear yard relationship and a minimum of 35 feet building setbacks to existing houses on Shallowdale is to serve as a buffer, similar to the buffer of the existing EP-zoned parcel. He said the setbacks and additional screening will alleviate the concern of vehicular lights shining into the homes. Mr. McCauley said the neighbors want a dry detention basin to distract geese from their homes. Mr. McCauley asked that the applicant explore further turning either Building 3 or Building 4 to a rear yard setback to the dry detention pond; he was told it's not feasible but he is asking the applicant to research that matter further.
- Jon Hughes, 4495 Harold; expressed disappointment that they are losing the natural environment with the proposed development.

Mr. Savidant clarified for the record that Mr. McCauley was granted additional time to speak because he is spoke on behalf of the homeowners' association.

#### PUBLIC HEARING CLOSED

There was discussion on:

- Landscaped screening of adjacent single family residential.
- Density; calculations, increase in number of units.
- History of EP-zoned parcel(s).
- Detention pond; as amenity, dry versus wet.
- Stormwater management; consideration of underground.
- Orientation of Buildings 3 or 4 to mitigate neighbors' concern with vehicular lights; if not feasible, additional landscaping for screening.
- Building height; no higher than what is permitted in R-1C residential.
- Dry pond.
  - o Neighbors' concern with existing geese; preference of neighbors.
  - o Utilitarian pond; DPW and Engineering preference for maintenance.
  - Location, depth, slope, shape, size.

Ms. Dufrane addressed the voluntary conditions offered by the applicant in relation to a conceptual plan and not an actual site plan. Ms. Dufrane said it would be best to meet with the applicant, the homeowners' association representative, Planning Consultant and administration to craft and/or wordsmith the conditions associated with the Conditional Rezoning request prior to consideration by City Council.

Mr. Savidant informed the audience the role of the Planning Commission is to make a recommendation to City Council. The public would have an opportunity to speak at the time City Council considers the item, and again during Site Plan consideration if the Conditional Rezoning is granted.

The applicant was advised to update the concept plan to show the rotation of buildings and additional screening prior to consideration by City Council.

#### Resolution # PC-2020-01-009

Moved by: Lambert Support by: Rahman

**RESOLVED**, That the Planning Commission hereby recommends to the City Council that the R-1C, RT and EP to RT Conditional Rezoning request, as per Section 16.04 of the City of Troy Zoning Ordinance, located on the east side of Rochester, south of Shallowdale, within Section 14, being approximately 1.877 acres in size, be **GRANTED** for the following reasons:

- 1. The request complies with the Master Plan.
- 2. The RT District would permit greater flexibility in use and development of the property.
- 3. The conditions offered by the applicant this evening reasonably protect the adjacent properties.
- 4. The rezoning would be compatible with surrounding zoning and land use.
- 5. The site can be adequately served with municipal water and sewer.
- 6. The development of the property should not unreasonably impact adjacent properties.

Yes: All present (8)

Absent: Faison

#### **MOTION CARRIED**

#### **OTHER BUSINESS**

#### 6. PLANNING COMMISSION 2019 ANNUAL REPORT

Mr. Savidant said the 2019 Planning Commission annual report indicates that 2019 was a very busy year. Mr. Savidant said he would look into the suggestion by Ms. Landmesser to include the number of residential units in the report.

#### 7. PUBLIC COMMENT

There was no one present who wished to speak.

#### 8. PLANNING COMMISSION COMMENT

There were general Planning Commission comments, some relating to

- Positive outcome of communication between developer and neighbors to resolve concerns.
- Update on Tollbrook lawsuit.
- Joint City Council and Planning Commission meeting; February 4, Community Center Room 303, agenda, public engagement.
- 2020 Michigan Regional Future City Competition.

The Regular meeting of the Planning Commission adjourned at 8:43 p.m.

Respectfully submitted,	
Tom Krent, Chair	
Kathy L. Czarnecki, Recording Secretary	

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DATE: February 7, 2020

TO: Planning Commission

FROM: R. Brent Savidant, Community Development Director

SUBJECT: PUBLIC HEARING - SPECIAL USE REQUEST (File Number SU2019-0044) -

Proposed Korean United Methodist Church of Troy Parking Lot Expansion, West side of Dequindre, south of Square Lake (42693 Dequindre), Section 27, Zoned R-

1C (One Family Residential) District.

The petitioner Korean United Methodist Church of Troy submitted the above referenced Special Use Approval and Preliminary Site Plan Approval application to expand the existing church parking lot.

The attached report prepared by Carlisle/Wortman Associates, Inc. (CWA), the City's Planning Consultant, summarizes the application. CWA prepared the report with input from various City departments including Planning, Engineering, Public Works and Fire. City Management supports the findings of fact contained in the report and recommends approval of the project, as noted.

#### Attachments:

- 1. Maps
- 2. Report prepared by Carlisle/Wortman Associates, Inc.

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#### PROPOSED RESOLUTION

<u>PUBLIC HEARING – SPECIAL USE REQUEST (File Number SU2019-0044)</u> – Proposed Korean United Methodist Church of Troy Parking Lot Expansion, West side of Dequindre, south of Square Lake (42693 Dequindre), Section 27, Zoned R-1C (One Family Residential) District.

#### Resolution # PC-2020-02-

Moved by: Seconded by:

**RESOLVED**, That Special Use Approval and Preliminary Site Plan Approval for the proposed Korean United Methodist Church of Troy Parking Lot Expansion, West side of Dequindre, south of Square Lake (42693 Dequindre), Section 27, Zoned R-1C (One Family Residential) District, be (granted, subject to the following conditions):

1. Add interior parking lot landscaping to break the long expanses of parking spaces.

	) or
(denied, for the following reasons:	) or
(postponed, for the following reasons:	)
Yes: No: Absent:	

#### MOTION CARRIED / FAILED

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# **GIS Online**



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Note: The information provided by this application has been compiled from recorded deeds, plats, tax maps, surveys, and other public records and data. It is not a legally recorded map survey. Users of this data are hereby notified that the source information represented should be consulted for verification.

# **GIS Online**



Note: The information provided by this application has been compiled from recorded deeds, plats, tax maps, surveys, and other public records and data. It is not a legally recorded map survey. Users of this data are hereby notified that the source information represented should be consulted for verification.



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

Date: February 5, 2020

# Special Use and Preliminary Site Plan Review For City of Troy, Michigan

**Applicant:** Korean United Methodist Church

**Project Name:** Church Parking Lot Expansion

Plan Date: December 9, 2019

**Location:** West side of Dequindre, south of Square Lake Road

**Zoning:** R-1C Single Family Residential

**Action Requested:** Special Use and Preliminary Site Plan Approval

#### SITE DESCRIPTION

Korean United Methodist Church is an established church on the west side of Dequindre, south of Square Lake Road. The applicant is proposing the construction of a net 137 additional parking spaces. The parking expansion is located in two spots north of their existing parking lot. The larger area is currently grassed and a ballfield. The smaller area is gravel and currently used for overflow parking. Additional site improvements include landscape and lighting.



#### Size of Subject Property:

The parcel is 9.08 net acres

#### **Current Zoning:**

The property is currently zoned R1-C, Single Family Residential

#### Surrounding Property Details:

Direction	Zoning	Use
North	NN, Neighborhood Node	Vacant / Commercial
South	R1-C, Single Family	Single Family Residential
East	Sterling Heights	Single Family Residential
West	R1-C, Single Family	Single Family Residential

#### NATURAL FEATURES

**Topography:** A topographic survey has been provided on sheet C-1.0 and shows that the

site is generally flat.

**Wetlands:** There are no wetlands on site.

**Floodplain:** There are no floodplains on site.

**Woodlands:** A tree inventory has been provided on sheet L-1.0. There are no protected

trees that will be disturbed on site.

Items to be addressed: None

#### **SETBACKS**

Parking requires 10-foot setback for landscape buffer.

	Distance	Adjacent Land Use
North	10.47 at closet point	Vacant / Wooded
West	56 feet	Single Family Residential
East	51 feet	Dequindre Road

Items to be addressed: None

#### **PARKING**

Section 13.06.G of the Zoning Ordinance requires:

	Required	Provided
Place of Worship: 1 per 3	1,010 / 3 = 337 spaces	Existing = 399
seats in sanctuary		Additional = 137
		Total = 536
Barrier Free	15	15
Total	337 spaces	536 spaces

In order to not over park sites and to reduce unnecessary impervious surface, any parking that exceeds 20% of the parking requirement, requires special approval from the Planning Commission. In granting such additional space, the Planning Commission shall determine that such parking will be required, based on documented evidence, to accommodate the use on a typical day.

Based upon zoning ordinance requirements, the site already exceeds parking by 18%. With the additional parking, the applicant proposes to exceed the required parking by 59%. The applicant should prove to the satisfaction of the Planning Commission that the additional parking is necessary to accommodate the use on a typical day.

As part of the special use review, the Planning Commission can put reasonable conditions upon the parking lot expansion such as the use of pervious paving.

*Items to be Addressed:* 1). Prove to the satisfaction of the Planning Commission that the additional parking is necessary to accommodate the use on a typical day; and 2). As part of the special use review, the Planning Commission can put reasonable conditions upon the parking lot expansion such as the use of pervious paving.

#### LANDSCAPING

A landscaping plan has been provided on sheet L-1.0 and are supplemented by tree protection and planting details on sheet L-1.1. The following table discusses the development's compliance with the landscape requirements set forth in Section 13.02.

	Required:	Provided:	Compliance:
North and West Property Line:			
Landscape buffering: Required buffering between two differentiating land uses. Alternative 1 or 2.	1 large evergreen every 10 feet or 1 narrow evergreen every 3 feet.	Existing brick wall	Complies
Parking Lot Landscaping:			
1 tree every 8 spaces	137 / 8 = 18	18, however only 1 is located within interior of parking lot	Complies with Planning Commission approval. See note below
Overall:			
Site landscaping: A minimum of twenty percent (20%) of the site area shall be comprised of landscape material. Up to twenty-five percent (25%) of the required landscape area may be brink, stone, pavers, or other public plaza elements, but shall not include any parking area or required sidewalks.	20%	30.7%	Complies

The Planning Commission should consider requiring the applicant to add interior parking lot landscaping to break the long expanses of parking spaces.

**Items to be Addressed**: The Planning Commission should consider requiring the applicant to add interior parking lot landscaping to break the long expanses of parking spaces.

#### **PHOTOMETRICS**

A photometric plan has been provided on sheet SL-1.1, and additional details are provided on sheet SL-1.2. The applicant is adding three (3) parking lot lights, two (2) are located in the larger parking lot addition, and one (1) is located in the smaller parking lot addition. The photometrics comply with all requirements.

#### Items to be Addressed: None

#### SPECIAL USE STANDARDS

Section 9.03 outlines the criteria that must be considered prior to special land use approval. We have provided a summary of the proposed development considerations below:

- 1. Compatibility with Adjacent Uses.
- 2. Compatibility with the Master Plan.
- 3. Traffic Impact.
- 4. Impact on Public Service.
- 5. Compliance with Zoning Ordinance Standards.
- 6. Impact on the Overall Environment.
- 7. Special Use Approval Specific Requirements.

The applicant is adding additional parking to an existing church. Provided that the applicant can prove to the satisfaction of the Planning Commission that the additional parking is necessary to accommodate the use on a typical day, we find that the Special Use Standards have been met.

#### **Items to be addressed:** None

#### RECOMMENDATION

We recommend that the Planning Commission hold a public hearing and discuss the need for additional parking to necessary to accommodate the use on a typical day. As part of the special use review, the Planning Commission can put reasonable conditions upon the parking lot expansion such as the use of pervious paving.

If the Planning Commission finds that the parking is necessary, we recommend special use and preliminary site plan approval with the following conditions:

1. Require the applicant to add interior parking lot landscaping to break the long expanses of parking spaces.

Sincerely,

CARLISLE/WORTMAN ASSOC., INC. Benjamin R. Carlisle, LEED AP, AICP

# PRELIMINARY SITE PLANS FOR

# KOREAN UNITED METHODIST CHURCH OF TROY

# 42693 DEQUINDRE ROAD

CITY OF TROY, OAKLAND COUNTY, MICHIGAN

# OWNER/APPLICANT/DEVELOPER:

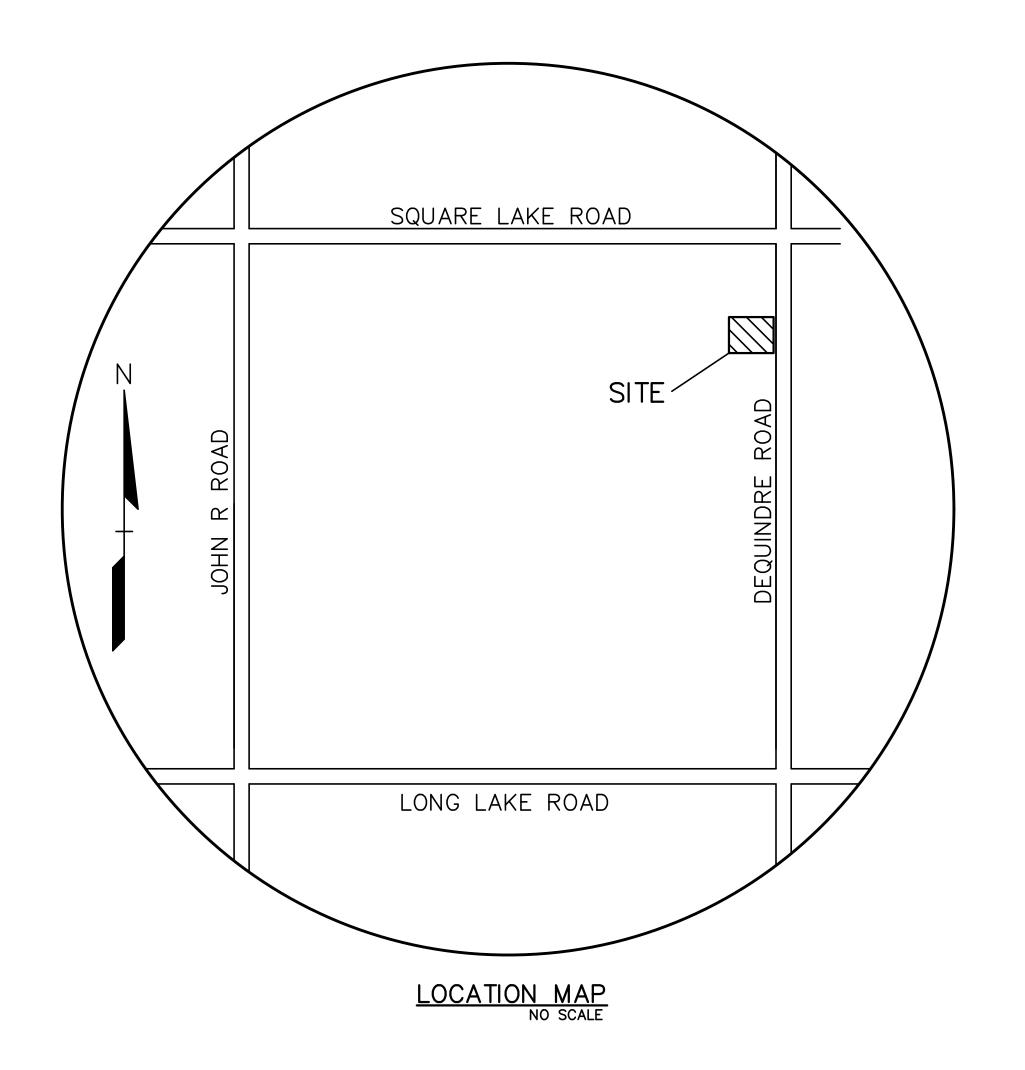
KOREAN UNITED METHODIST CHURCH OF TROY 42693 DEQUINDRE ROAD TROY, MI 48085 CONTACT: TIMOTHY T. YU PHONE: (248) 879-2240 EMAIL: TIMOTHY.T.YU@GM.COM

## CIVIL ENGINEER:

PEA, INC. 2430 ROCHESTER CT, SUITE 100 CONTACT: JOHN DELL'ISOLA PHONE: (248) 689-9090 EXT. XXX FAX: (248) 689-1044 EMAIL: JDELLISOLA@PEAINC.COM

### LANDSCAPE ARCHITECT:

PEA, INC. 7927 NEMCO WAY, SUITE 115 BRIGHTON, MI 48116 CONTACT: JEFF SMITH, R.L.A., LEED AP PHONE: (517) 546-8583 FAX: (517) 546-8973 EMAIL: JSMITH@PEAINC.COM



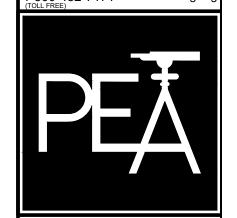
# **INDEX OF DRAWINGS:**

COVER SHEET TOPOGRAPHIC SURVEY OVERALL SITE PLAN PRELIMINARY SITE PLAN PRELIMINARY GRADING PLAN PRELIMINARY UTILITY PLAN NOTES AND DETAILS

PRELIMINARY LANDSCAPE/TREE PLAN

SITE PHOTOMETRIC PLAN SITE PHOTOMETRIC DETAILS

CITY OF TROY STANDARD DETAILS: CITY OF TROY STANDARD STORM SEWER DETAILS



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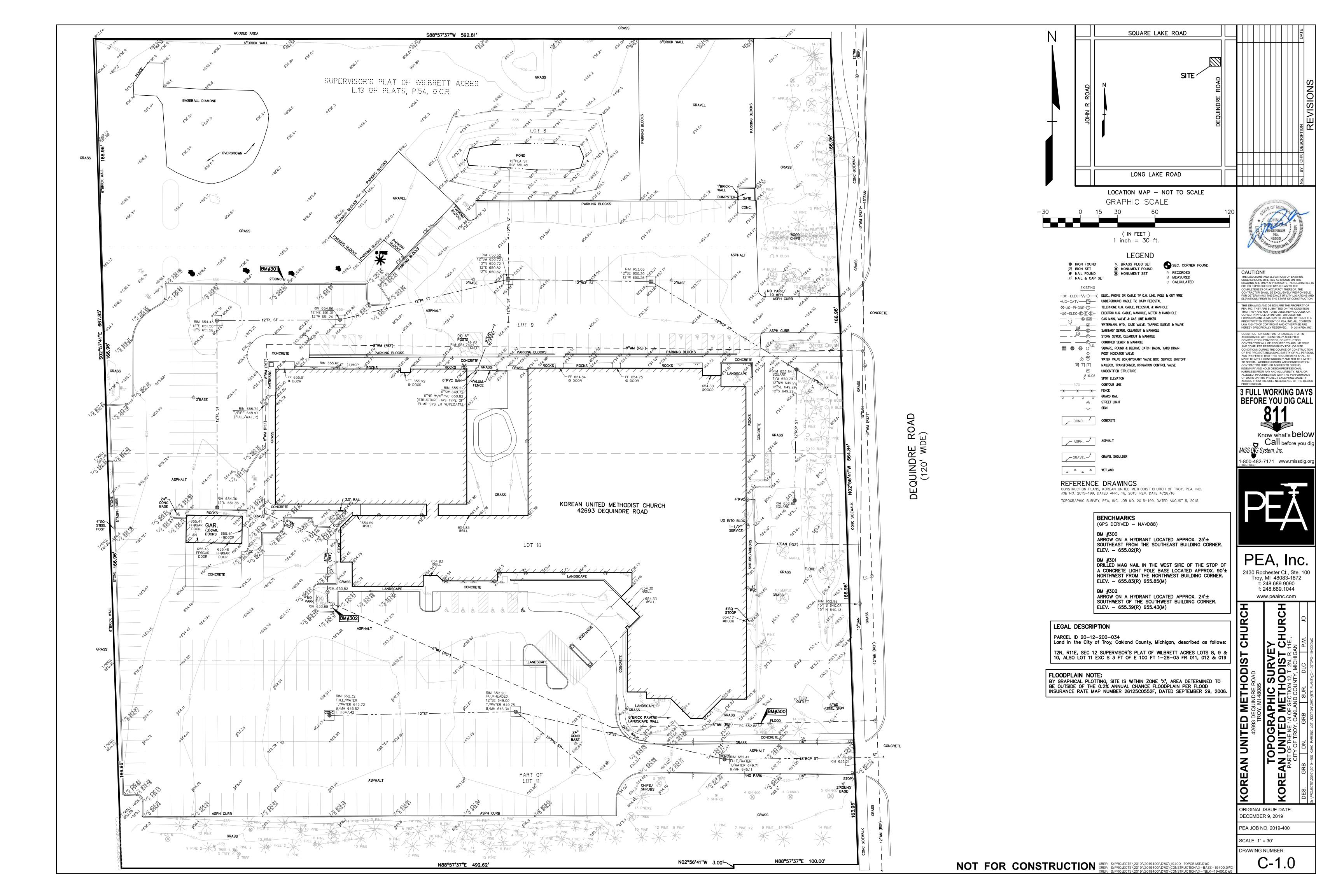
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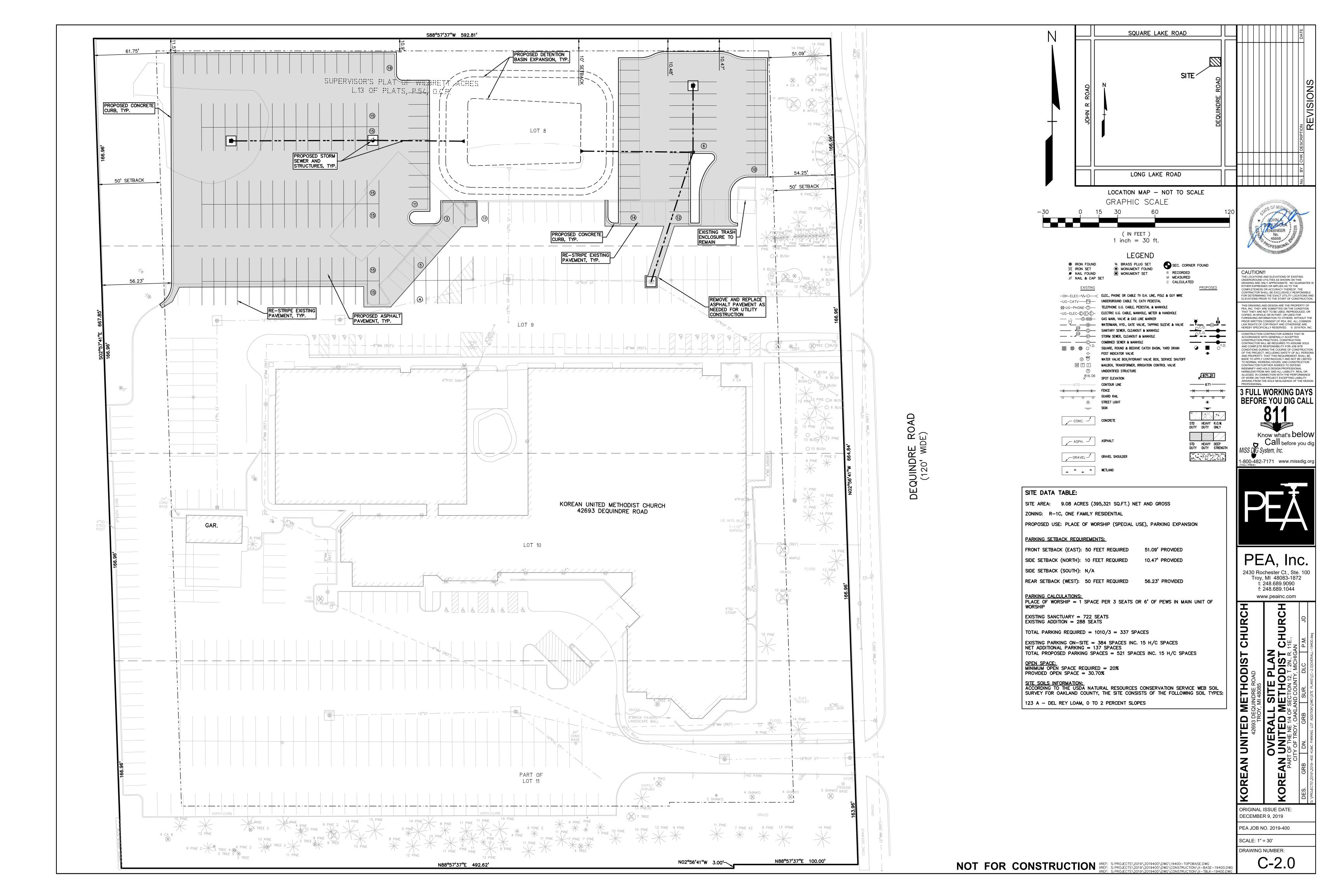
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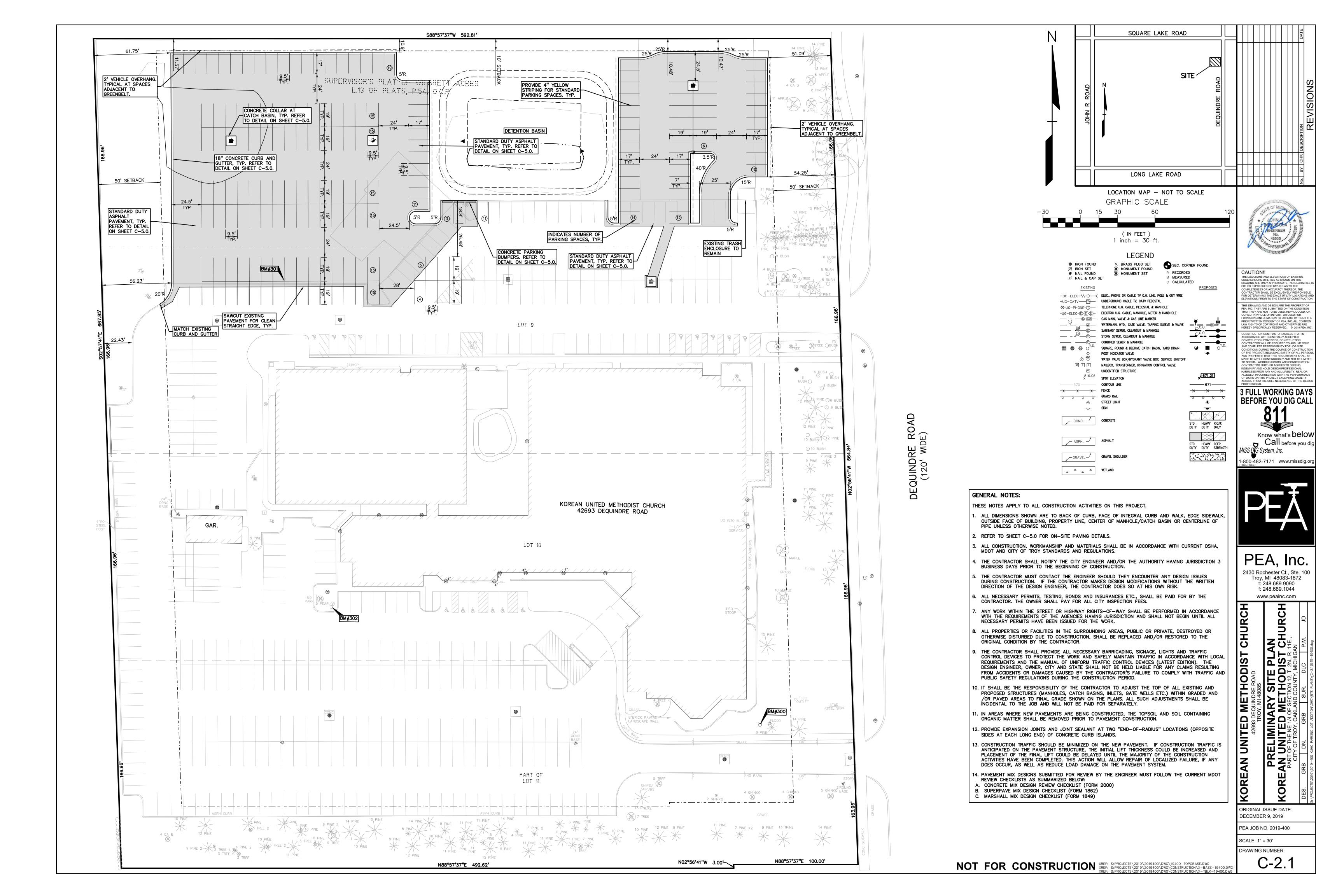
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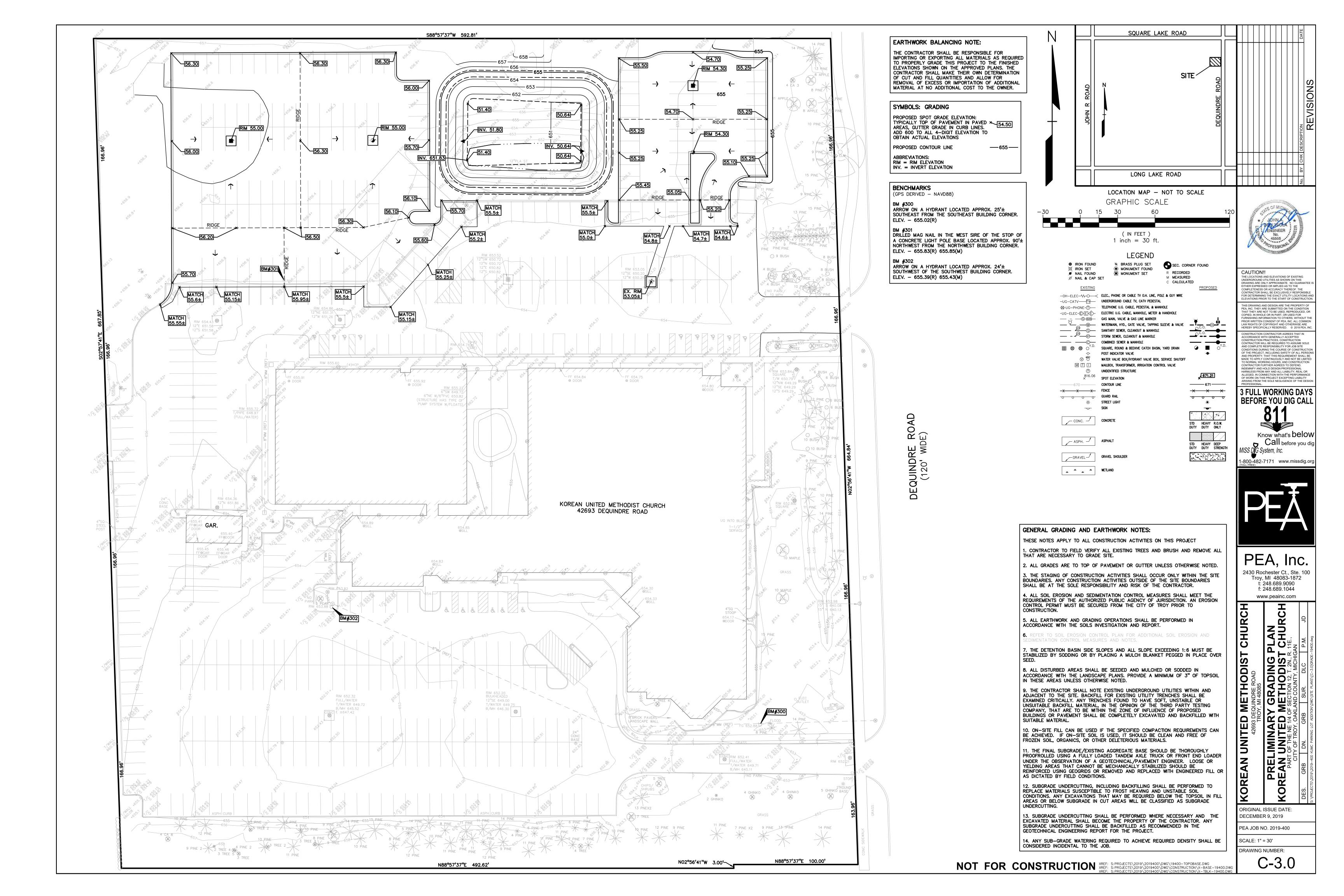
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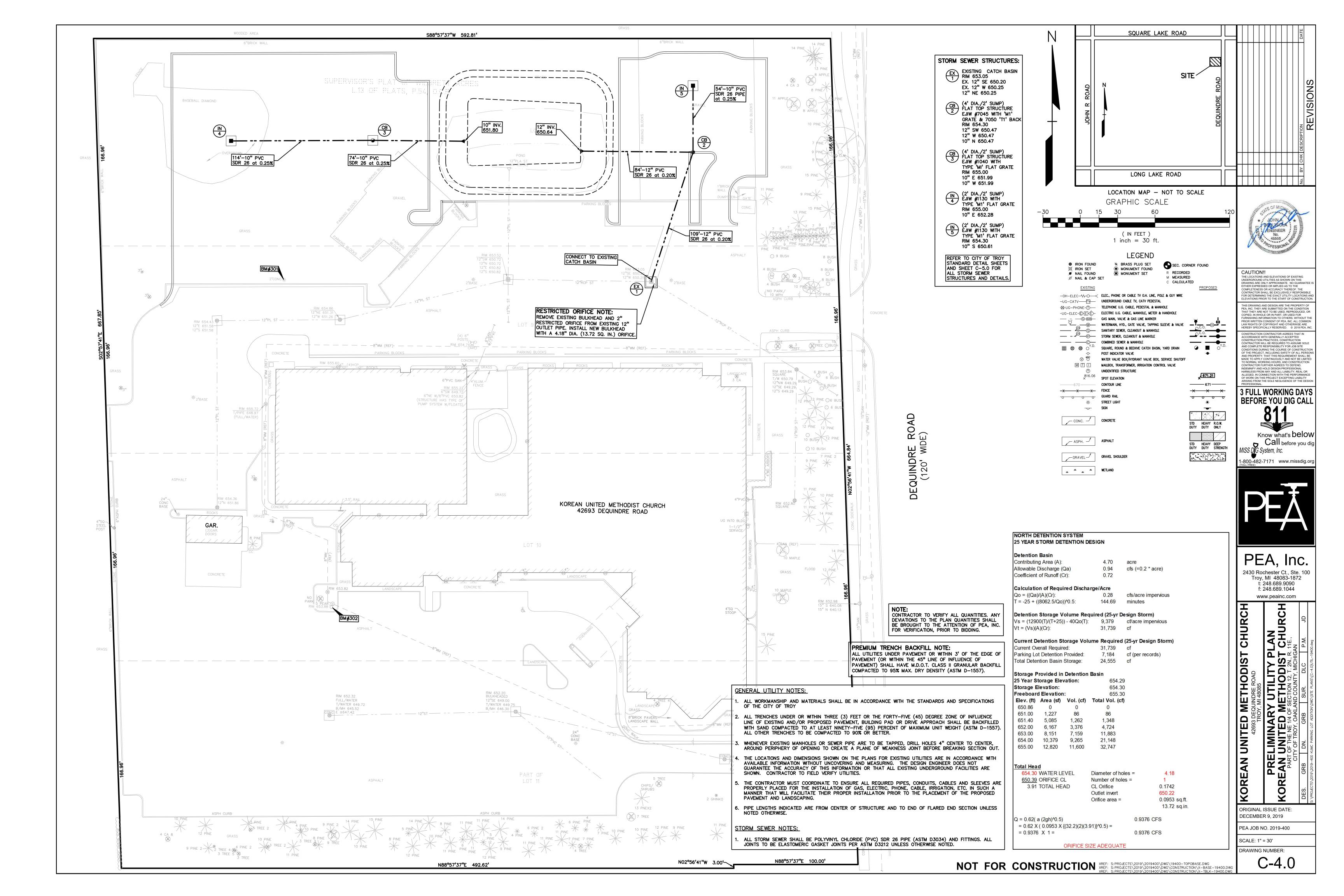
LEGAL DESCRIPTION PARCEL ID 20—12—200—034 Land in the City of Troy, Oakland County, Michigan, described as follows: T2N, R11E, SEC 12 SUPERVISOR'S PLAT OF WILBRETT ACRES LOTS 8, 9 & 10, ALSO LOT 11 EXC S 3 FT OF E 100 FT 1-28-03 FR 011, 012 & 019

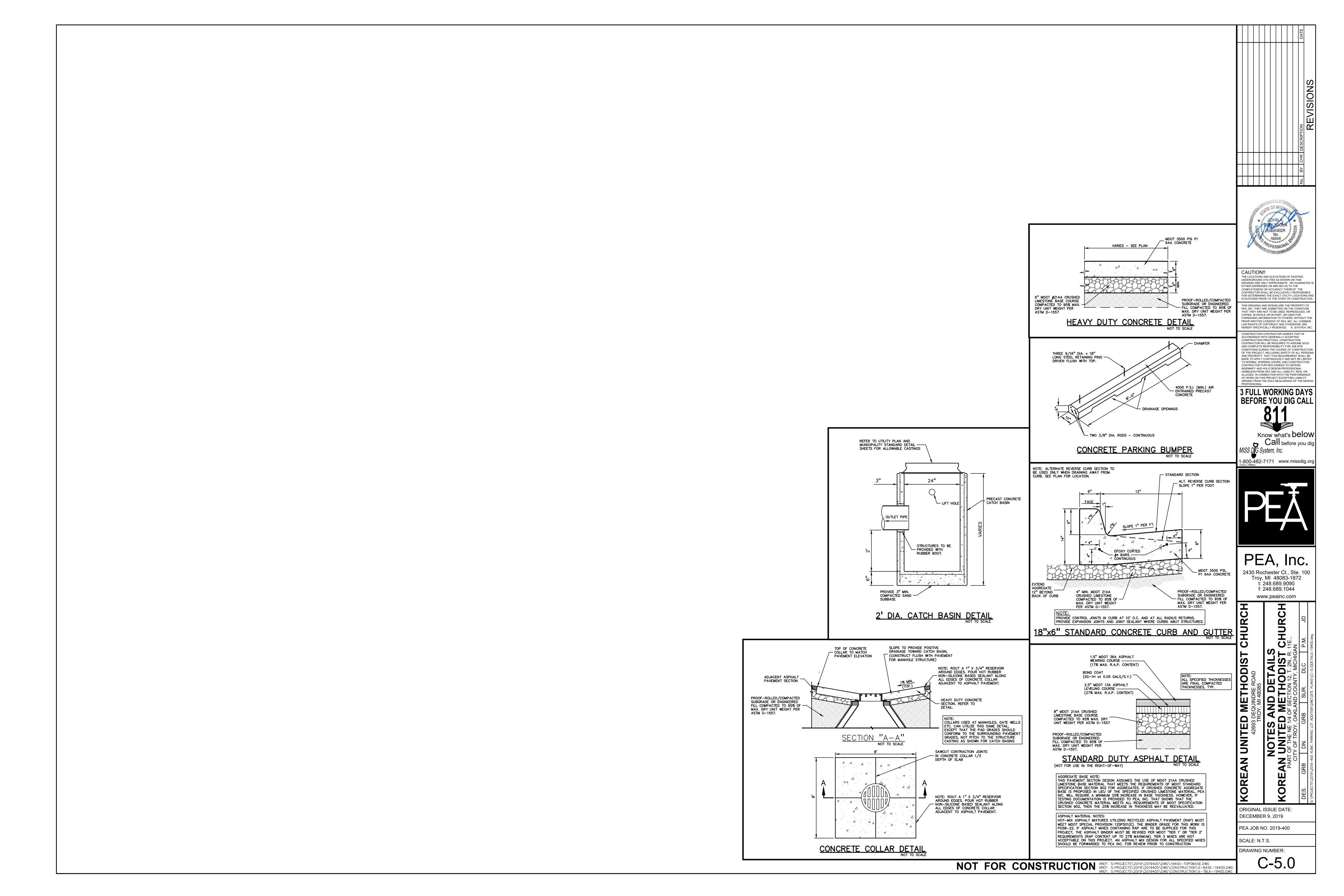


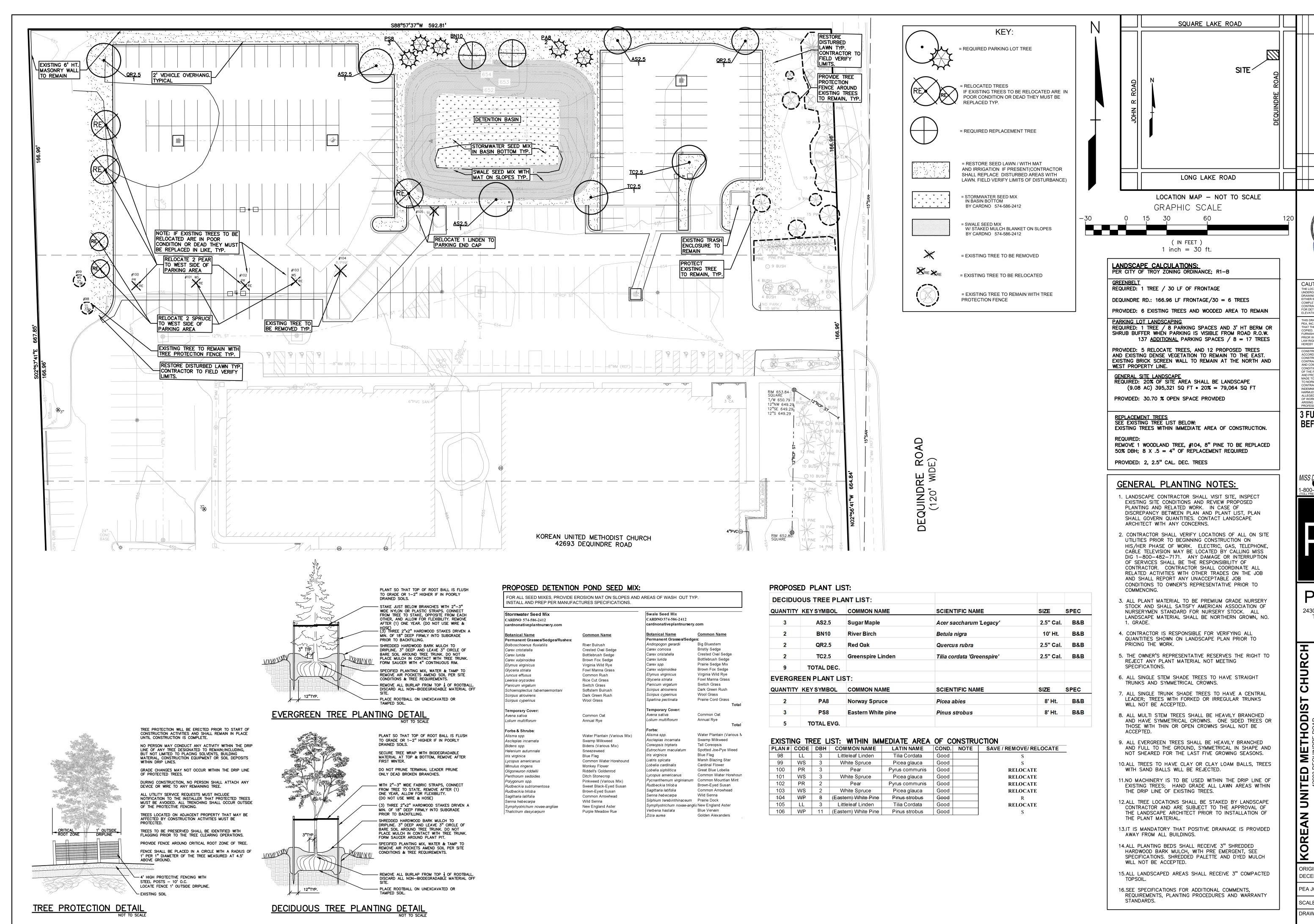












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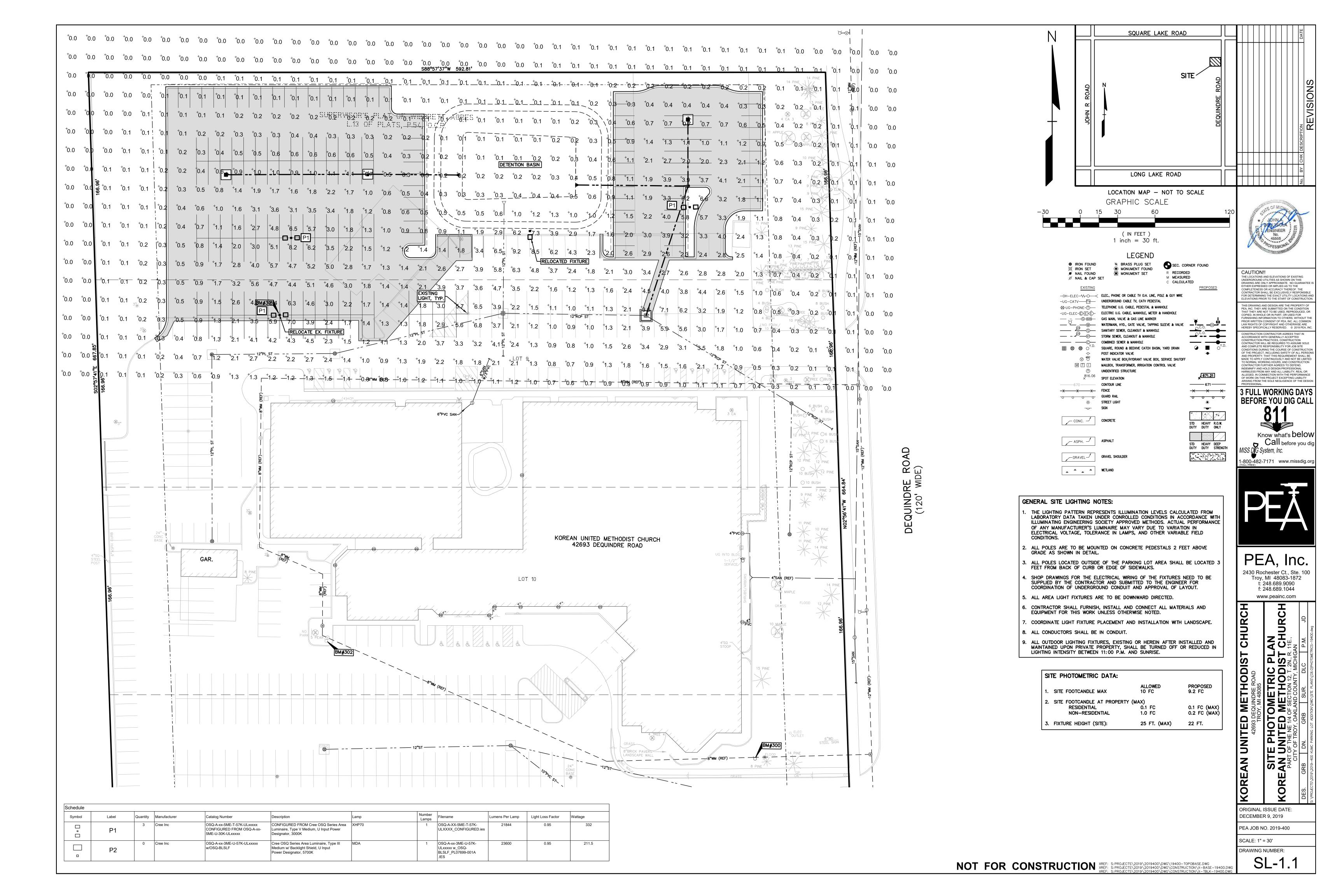
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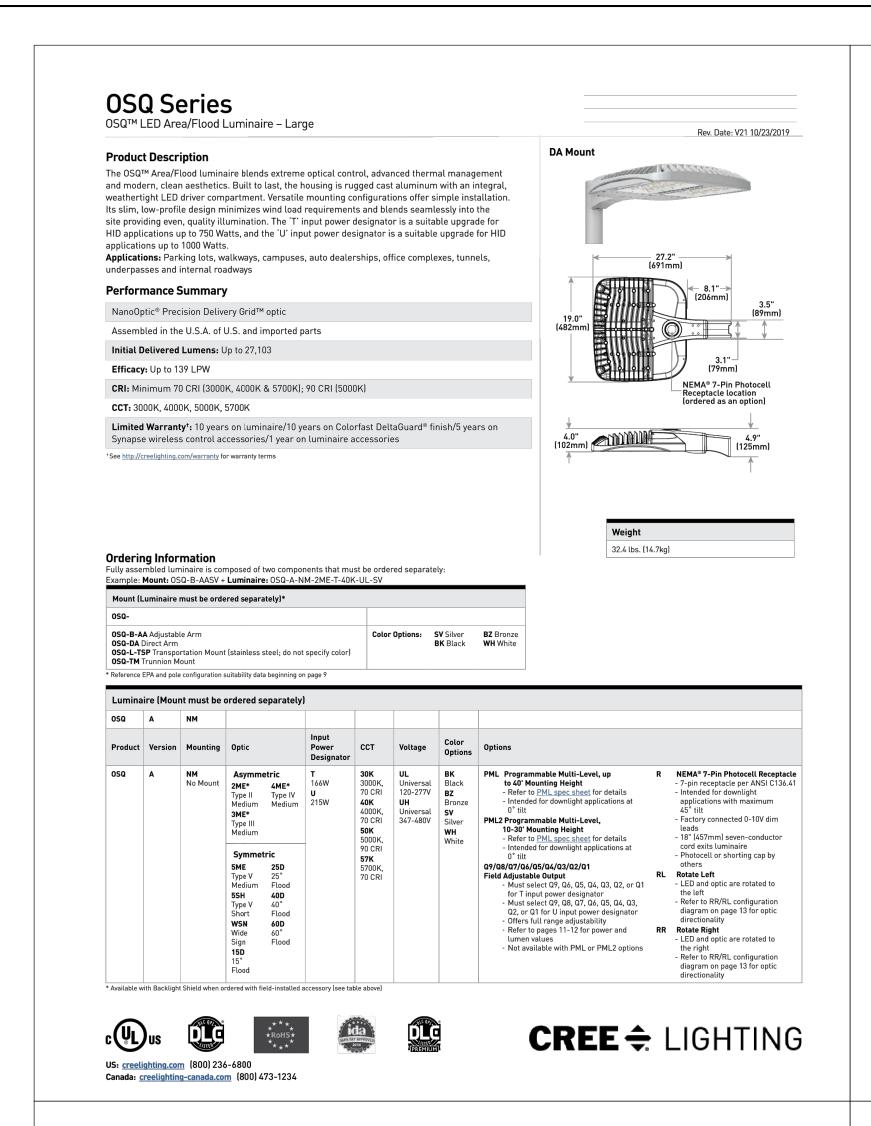
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- aluminum and mounts to 2" (51mm) IP, 2.375" (60mm) 0.D. tenon Adjustable arm mount can be adjusted 180° in 2.5° increments
- Transportation mount is constructed of 316 stainless steel and mounts to surface with (4) 3/8" fasteners by others
- Trunnion mount is constructed of A500 and A1011 steel and is
- adjustable from 0-180° in 15° degree increments. Trunnion mount secures to surface with (1) 3/4" bolt or (2) 1/2" or 3/8" bolts

Includes 18" (340mm) 18/5 or 16/5 cord exiting the luminaire. When

ordered with R option, 18" (340mm) 18/7 or 16/7 cord is provided

 Designed for uplight and downlight applications Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver, bronze, black, and white are available

#### • Weight: OSQ-DA: 32.4 lbs. [14.7kg]; OSQ-B-AA: 32.0 lbs. [14.5kg]; OSQ-L-TSP: 44 lbs. (20.0kg); OSQ-TM: 36.1 lbs. (16.4kg)

- Input Voltage: 120-277V or 347-480V, 50/60Hz, Class 1 drivers • Power Factor: > 0.9 at full load
- Total Harmonic Distortion: < 20% at full load Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- Consult factory if in-luminaire fusing is required Designed with 0-10V dimming capabilities. Controls by others Refer to Dimming spec sheet for details
- 10V Source Current: 0.15mA

designations "T", and "U"

#### REGULATORY & VOLUNTARY QUALIFICATIONS cULus Listed

- Suitable for wet locations • Enclosure rated IP66 per IEC 60529 when ordered without R option
- Consult factory for CE Certified products • Certified to ANSI C136.31-2001, 3G bridge and overpass vibration
- standards with AA, DA, TM, and TSP mounts. For adjustable arm applications requiring ANSI C136.31-2001 3G vibration certification, ensure that existing or new adjustable arm mount model number
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matches OSQ-B-AA for all OSQ large housing luminaires with power

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- elevated ambient salt fog conditions as defined in ASTM Standard B 117 Meets Buy American requirements within ARRA
- DLC and DLC Premium qualified versions available with 70 CRI. Some exceptions apply. Please refer to https://www.designlights.org/search/
- for most current information RoHS compliant. Consult factory for additional details
- Dark Sky Friendly, IDA Approved when ordered with 30K CCT and direct or transportation mounts only. Please refer to <a href="https://www.darksky.">https://www.darksky.</a>
- org/our-work/lighting/lighting-for-industry/fsa/fsa-products/ for most current information • CA RESIDENTS WARNING: Cancer and Reproductive Harm – www.p65warnings.ca.gov

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SYNAPSE® SIMPLYSNAP INTELLIGENT CONTROL The Synapse SimplySNAP platform is a highly intuitive connected lighting solution featuring zone dimming, motion sensing, and daylight harvesting with utility-grade power monitoring and support of up to 1000 nodes per gateway. The system features a reliable and robust self-healing mesh network with a browser-based interface that runs on smartphones, tablets, and PCs. The Twist-Lock Lighting Controller (TL7-B2) and Site Controller (SS450-002) take the OSQ Series to a new performance plateau, providing extreme energy productivity, code compliance and a better light experience.

		Total Cu	rrent (A)				
Input Power Designator	System Watts 120-480V	120V	208V	240V	277V	347V	480V
Т	166	1.41	0.83	0.72	0.62	0.49	0.35
U	215	1.83	1.08	0.93	0.81	0.62	0.45

Ambient	Optic	Initial LMF	25K hr Reported <sup>2</sup> LMF	50K hr Reported <sup>2</sup> LMF	75K hr Reported <sup>2</sup> / Estimated <sup>3</sup> LMF	100K hr Reported <sup>2</sup> / Estimated <sup>3</sup> LMF
5°C (41°F)	Asymmetric	1.04	1.02	1.01	1.00³	0.993
5 C (41 F)	Symmetric	1.05	1.04	1.03	1.03 <sup>2</sup>	1.022
10°C (50°F)	Asymmetric	1.03	1.01	1.00	0.993	0.983
	Symmetric	1.04	1.03	1.02	1.012	1.00²
15°C	Asymmetric	1.02	1.00	0.99	0.983	0.973
(59°F)	Symmetric	1.02	1.02	1.01	1.00 <sup>2</sup>	0.992
20°C	Asymmetric	1.01	0.99	0.98	0.973	0.963
(68°F)	Symmetric	1.01	1.01	1.00	0.992	0.982
25°C	Asymmetric	1.00	0.98	0.97	0.963	0.953
(77°F)	Symmetric	1.00	0.99	0.98	0.982	0.972

naintenance factors. Please refer to the Temperature Zone Reference Document for outdoor average nighttime ambient conditions.

2 In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.

3 Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED.

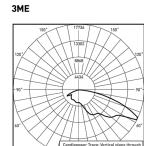
Field-Installed		
Backlight Shield OSQ-BLSLF - Front facing optics OSQ-BLSLR - Rotated Optics	Hand-Held Remote  XA-SENSREM  - For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required	<b>Bird Spikes</b> OSQ-LG-BRDSPK
Synapse Wireless C	ontrol Accessories	
Twist-Lock Lighting Controller TL7-B2 - Suitable for 120-277V (UL) voltage only - Requires NEMA/ANSI C136.41 7-Pin Dimming Receptacle - Not for use with PML or Q options - Provides On/Off switching, dimming, power metering, digital sensor input, and status monitoring of luminaires		SimplySNAP On-Site Controller SS450-002 - Verizon® LTE-enabled - Designed for indoor applications Building Management System (BMS) Gateway BMS-GW - Required for BACNET integration Outdoor Antennas (Optional, for increased range, 8dB gain) KIT-ANT420SM - Kit includes antenna, 20' cable and bracket KIT-ANT460

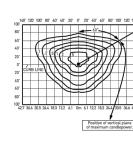
CREE & LIGHTING

- Kit includes antenna, 30' cable and bracket
 KIT-ANT600
 - Kit includes antenna, 50' cable and bracket



All published luminaire photometric testing performed to IESNA LM-79-08 standards. To obtain an IES file specific to your project consult: http://creelighting.com/products/outdoor/area/osq-series



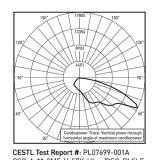


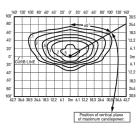
CESTL Test Report #: PL07698-001A

Mounting Height: 25' (7.6m) A.F.G Initial Delivered Lumens: 26,583

Type III Medium Distribution									
	3000K (70 CRI)		4000K (70 CRI)	4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
Input Power Designator	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11							
Т	20,688	B3 U0 G3	21,902	B3 U0 G3	18,600	B3 U0 G3	22,330	B3 U0 G3	
U	25,246	B3 U0 G3	26,583	B3 U0 G3	22,000	B3 U0 G3	27,103	B3 U0 G3	

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt





OSQ-A-\*\*-3ME-U-40K-UL w/OSQ-BLSLF Mounting Height: 25' (7.6m) A.F.G. Initial Delivered Lumens: 20,986 Initial FC at grade OSQ-A-\*\*-3ME-U-57K-UL w/OSQ-BLSLF Initial Delivered Lumens: 23,601

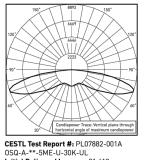
Type III Medium w/BLS Distribution									
	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)		
Input Power Designator	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11							
Т	16,333	B2 U0 G2	17,291	B2 U0 G2	14,650	B2 U0 G2	17,629	B2 U0 G3	
U	19,931	B2 U0 G3	20,986	B2 U0 G3	17,400	B2 U0 G3	21,397	B2 U0 G3	

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

US: creelighting.com (800) 236-6800 Canada: creelighting-canada.com (800) 473-1234 CREE \$\dightarrow\$ LIGHTING

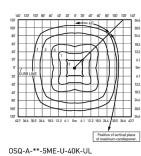
OSQ™ LED Area/Flood Luminaire – Large

All published luminaire photometric testing performed to IESNA LM-79-08 standards. To obtain an IES file specific to your project consult: http://creelighting.com/products/outdoor/area/osq-series



Type V Medium Distribution

20,213 23,222



Mounting Height: 25' [7.6m] A.F.G. Initial Delivered Lumens: 24,666

		Initial FC at grad	le					
ın	Distribution							
	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings Per TM-15-1
	20 213	B5 U0 G5	21 469	B5 U0 G5	19 800	B5 U0 G5	21 842	B5 U0 G5

B5 U0 G5

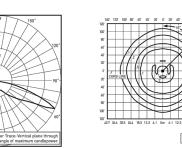
25,095

B5 U0 G5

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

B5 U0 G5

24,666



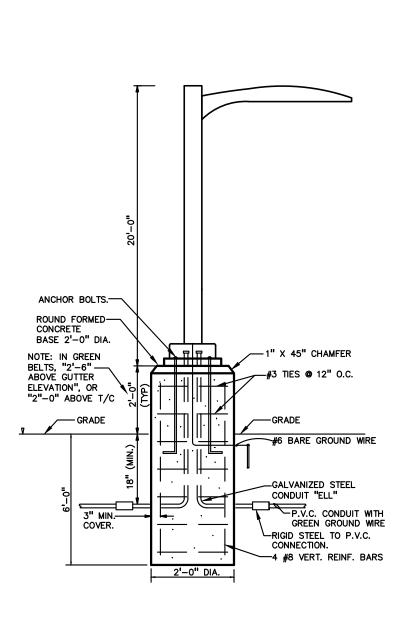
B5 U0 G5

CESTL Test Report #: PL10754-001A OSQ-A-\*\*-5SH-U-40K-UL Initial Delivered Lumens: 25,679 0SQ-A-\*\*-5SH-U-40K-UL Mounting Height: 25' (7.6m) A.F.G Initial Delivered Lumens: 26,051

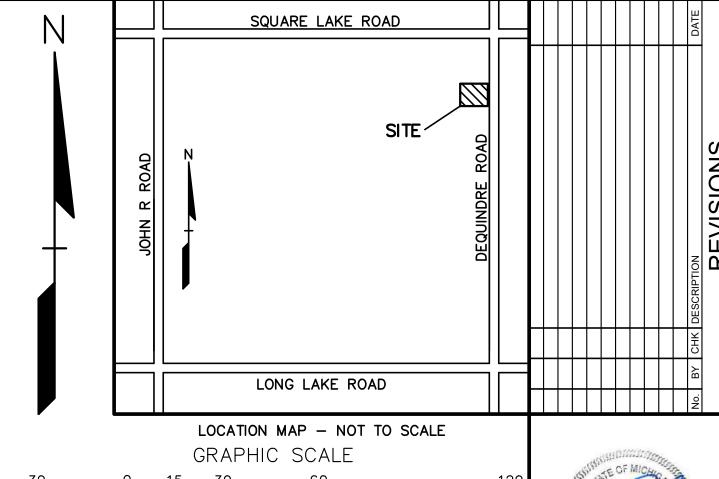
* * * * * * * * * * * * * * * * * * * *	Distribution							
	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
Input Power Designator	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11						
Т	21,349	B5 U0 G3	22,675	B5 U0 G3	20,900	B5 U0 G3	23,069	B5 U0 G3
J	24,527	B5 U0 G3	26,051	B5 U0 G3	24,700	B5 U0 G3	26,504	B5 U0 G4

\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

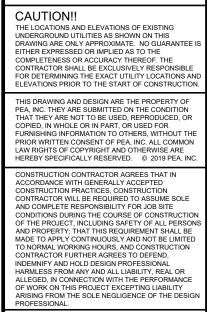
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( IN FFFT )







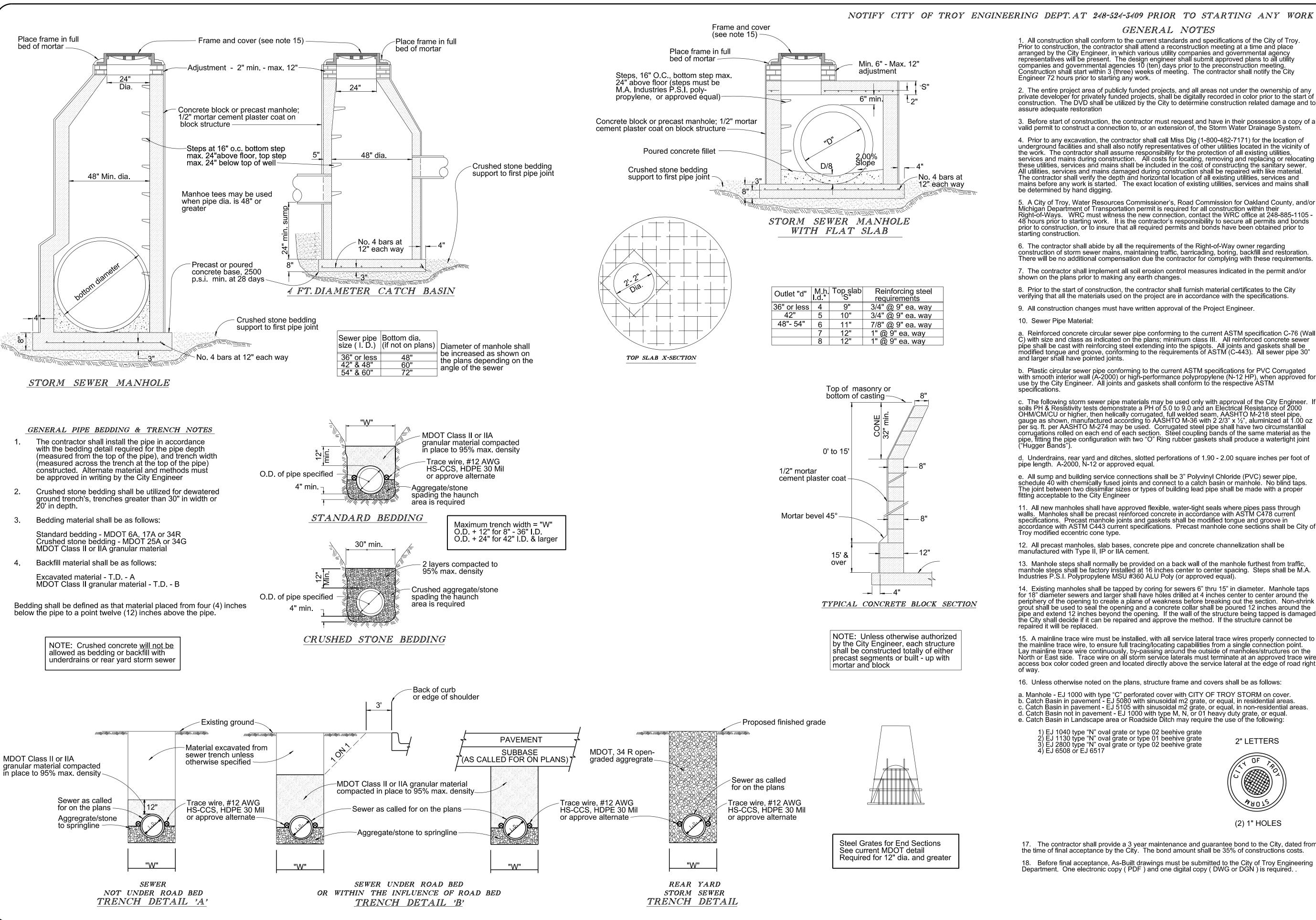
PEA, Inc. Troy, MI 48083-1872 t: 248.689.9090 f: 248.689.1044 www.peainc.com

CHURCI UNITED METHODIST ETRIC METHOL OREAN 0

ORIGINAL ISSUE DATE: DECEMBER 9, 2019

SCALE: 1" = 30' DRAWING NUMBER:

PEA JOB NO. 2019-400





Prior to construction, the contractor shall attend a reconstruction meeting at a time and place arranged by the City Engineer, in which various utility companies and governmental agency representatives will be present. The design engineer shall submit approved plans to all utility companies and governmental agencies 10 (ten) days prior to the preconstruction meeting. Construction shall start within 3 (three) weeks of meeting. The contractor shall notify the City

- 2. The entire project area of publicly funded projects, and all areas not under the ownership of any private developer for privately funded projects, shall be digitally recorded in color prior to the start of construction. The DVD shall be utilized by the City to determine construction related damage and to
- 3. Before start of construction, the contractor must request and have in their possession a copy of a
- 4. Prior to any excavation, the contractor shall call Miss Dig (1-800-482-7171) for the location of underground facilities and shall also notify representatives of other utilities located in the vicinity of the work. The contractor shall assume responsibility for the protection of all existing utilities, services and mains during construction. All costs for locating, removing and replacing or relocating these utilities, services and mains shall be included in the cost of constructing the sanitary sewer.

  All utilities, services and mains damaged during construction shall be repaired with like material. The contractor shall verify the depth and horizontal location of all existing utilities, services and mains before any work is started. The exact location of existing utilities, services and mains shall
- 5. A City of Troy, Water Resources Commissioner's, Road Commission for Oakland County, and/or Michigan Department of Transportation permit is required for all construction within their Right-of-Ways. WRC must witness the new connection, contact the WRC office at 248-885-1105 -48 hours prior to starting work. It is the contractor's responsibility to secure all permits and bonds prior to construction, or to insure that all required permits and bonds have been obtained prior to

6. The contractor shall abide by all the requirements of the Right-of-Way owner regarding construction of storm sewer mains, maintaining traffic, barricading, boring, backfill and restoration. There will be no additional compensation due the contractor for complying with these requirements.

a. Reinforced concrete circular sewer pipe conforming to the current ASTM specification C-76 (Wall C) with size and class as indicated on the plans; minimum class III. All reinforced concrete sewer pipe shall be cast with reinforcing steel extending into the spigots. All joints and gaskets shall be modified tongue and groove, conforming to the requirements of ASTM (C-443). All sewer pipe 30"

b. Plastic circular sewer pipe conforming to the current ASTM specifications for PVC Corrugated with smooth interior wall (A-2000) or high-performance polypropylene (N-12 HP), when approved for use by the City Engineer. All joints and gaskets shall conform to the respective ASTM

c. The following storm sewer pipe materials may be used only with approval of the City Engineer. If soils PH & Resistivity tests demonstrate a PH of 5.0 to 9.0 and an Electrical Resistance of 2000 OHM/CM/CU or higher, then helically corrugated, full welded seam, AASHTO M-218 steel pipe, gauge as shown, manufactured according to AASHTO M-36 with 2 2/3" x ½", aluminized at 1.00 oz per sq. ft. per AASHTO M-274 may be used. Corrugated steel pipe shall have two circumstantial corrugations rolled on each end of each section. Steel coupling bands of the same material as the pipe, fitting the pipe configuration with two "O" Ring rubber gaskets shall produce a watertight joint

d. Underdrains, rear yard and ditches, slotted perforations of 1.90 - 2.00 square inches per foot of pipe length. A-2000, N-12 or approved equal.

e. All sump and building service connections shall be 3" Polyvinyl Chloride (PVC) sewer pipe, schedule 40 with chemically fused joints and connect to a catch basin or manhole. No blind taps. The joint between two dissímilar sizes or types of building lead pipe shall be made with a proper

11. All new manholes shall have approved flexible, water-tight seals where pipes pass through walls. Manholes shall be precast reinforced concrete in accordance with ASTM C478 current specifications. Precast manhole joints and gaskets shall be modified tongue and groove in accordance with ASTM C443 current specifications. Precast manhole cone sections shall be City of

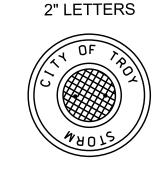
13. Manhole steps shall normally be provided on a back wall of the manhole furthest from traffic, manhole steps shall be factory installed at 16 inches center to center spacing. Steps shall be M.A. Industries P.S.I. Polypropylene MSU #360 ALU Poly (or approved equal).

14. Existing manholes shall be tapped by coring for sewers 6" thru 15" in diameter. Manhole taps for 18" diameter sewers and larger shall have holes drilled at 4 inches center to center around the periphery of the opening to create a plane of weakness before breaking out the section. Non-shrink grout shall be used to seal the opening and a concrete collar shall be poured 12 inches around the pipe and extend 12 inches beyond the opening. If the wall of the structure being tapped is damaged, the City shall decide if it can be repaired and approve the method. If the structure cannot be

15. A mainline trace wire must be installed, with all service lateral trace wires properly connected to the mainline trace wire, to ensure full tracing/locating capabilities from a single connection point. Lay mainline trace wire continuously, by-passing around the outside of manholes/structures on the North or East side. Trace wire on all storm service laterals must terminate at an approved trace wire access box color coded green and located directly above the service lateral at the edge of road right

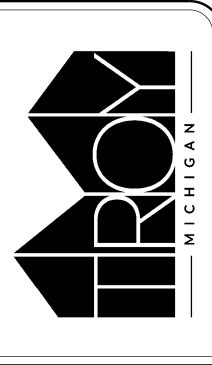
16. Unless otherwise noted on the plans, structure frame and covers shall be as follows:

a. Manhole - EJ 1000 with type "C" perforated cover with CITY OF TROY STORM on cover. b. Catch Basin in pavement - EJ 5080 with sinusoidal m2 grate, or equal, in residential areas. c. Catch Basin in pavement - EJ 5105 with sinusoidal m2 grate, or equal, in non-residential areas. d. Catch Basin not in pavement - EJ 1000 with type M, N, or 01 heavy duty grate, or equal. e. Catch Basin in Landscape area or Roadside Ditch may require the use of the following:



(2) 1" HOLES

17. The contractor shall provide a 3 year maintenance and guarantee bond to the City, dated from the time of final acceptance by the City. The bond amount shall be 35% of constructions costs.



DE SE **BEAISIONS**  $\mathcal{S}$ **BENIZIONZ** \* HENIONS

From: **Brent Savidant** To: Jackie Ferencz

Subject: FW: Korean United Methodist Date: Friday, February 7, 2020 11:32:24 AM

Attachments: image001.png

image002.png image003.png image004.png image005.png image006.png



R. Brent Savidant, AICP **Community Development Director** City of Troy O: 248.524.3366









**From:** Timothy T. Yu [mailto:timothy.t.yu@gm.com]

Sent: Friday, February 7, 2020 11:12 AM

To: Brent Savidant <SavidantB@troymi.gov>; 'jdellisola@peainc.com' <jdellisola@peainc.com>

Subject: RE: Korean United Methodist

#### Good morning Brent,

Thank you for your and the Planning Commission consideration of our church parking lot expansion requirements. I provide the following information to explain the additional parking requirements:

- Our church has several worship times (8 and 11am Korean language worship; 9 and 11am English worship; 1:30pm young adults; 11am children worship)
  - having several worship times help the parking situation but does not completely address the shortage that we experience each Sunday where people actually leave because they cannot find a spot to park
- Current parking capacity (after completion of the new building in 2017) 400
- Current temporary overflow parking capacity (area covered w/crushed rocks) 50
- Church membership as of Dec 1, 2019 was 2,566 including children (695 families)
- Average attendance on Sundays is ~ 1,500 adults and children
- We continue to have new visitors to our church almost every Sunday who join as new members (Michigan being the core of the big 3 automotive OEMs, many automotive supplier companies from Korea are continuing to set up offices in the Detroit and suburb areas and sending employees to live in the area and support their business with the auto OEMs)
- Additionally, we have Korean language school (~200 students) from 9:30-11am each Sunday attended by some students who don't participate in worship which also contributes to the additional parking requirements

**From:** Brent Savidant [mailto:SavidantB@troymi.gov]

Sent: Thursday, February 06, 2020 9:33 AM

**To:** Timothy T. Yu < <a href="mailto:timothy.t.yu@gm.com">timothy.t.yu@gm.com">timothy.t.yu@gm.com</a>>; 'jdellisola@peainc.com' < <a href="mailto:jdellisola@peainc.com">jdellisola@peainc.com</a>>

**Subject:** [EXTERNAL] Korean United Methodist

ATTENTION: This email originated from outside of GM.

#### Tim and John:

The Zoning Ordinance mandates that the Planning Commission <u>may</u> approve a parking lot that provides over 25% more parking than required. They will want you to provide justification for the need for 59% more parking than required by the Zoning Ordinance. This does not mean you have to submit a complicated and lengthy study. But you do need to justify why the church needs so much parking. For example, is the church growing in members? If so, please provide numbers. Is it a regional church, drawing from a large area? Please explain.

Please provide evidence for the Planning Commission to consider on Tuesday.

Thanks.



R. Brent Savidant, AICP Community Development Director City of Troy O: 248.524.3366







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Confidentiality Note: This message is intended only for the person or entity to which it is addressed. It may contain confidential and/or privileged material. Any review, transmission, dissemination or other use, or taking of any action in reliance upon this message by persons or entities other than the intended recipient is prohibited and may be unlawful. If you received this message in error, please contact the sender and delete it from your computer.

DATE: February 7, 2020

TO: Planning Commission

FROM: R. Brent Savidant, Community Development Director

SUBJECT: PUBLIC HEARING - SPECIAL USE REQUEST (File Number SP2020-0001) -

Proposed Long Lake Shell Addition, Southwest corner of Long Lake and Dequindre,

Section 13, Currently Zoned NN (Neighborhood Node "J") District.

The petitioner Art Kalajian submitted the above referenced Special Use Approval and Preliminary Site Plan Approval application for an addition to an existing gas station.

The application as submitted requires a variance from the Zoning Board of Appeals, therefore the Planning Commission will not be taking action on this item at this time. This is an opportunity to provide feedback on this project before it goes before the Zoning Board of Appeals for consideration.

The attached report prepared by Carlisle/Wortman Associates, Inc. (CWA), the City's Planning Consultant, summarizes the application. CWA prepared the report with input from various City departments including Planning, Engineering, Public Works and Fire. City Management supports the findings of fact contained in the report and recommends approval of the project, as noted.

#### Attachments:

- 1. Maps
- 2. Report prepared by Carlisle/Wortman Associates, Inc.

G:\SITE PLANS\SP JPLN2020-00001 (SU) LONG LAKE SHELL\PC Memo 02 11 2020.docx

# TROY

# **GIS Online**



297 0 149 297 Feet



Note: The information provided by this application has been compiled from recorded deeds, plats, tax maps, surveys, and other public records and data. It is not a legally recorded map survey. Users of this data are hereby notified that the source information represented should be consulted for verification.



# GIS Online



297 0 149 297 Feet



Note: The information provided by this application has been compiled from recorded deeds, plats, tax maps, surveys, and other public records and data. It is not a legally recorded map survey. Users of this data are hereby notified that the source information represented should be consulted for verification.



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

Date: February 6, 2020

# Preliminary Site Plan and Special Use Review For City of Troy, Michigan

**Project Name:** Shell Gas Station

Plan Date: December 28, 2019

**Location:** 2970 E. Long Lake (Southwest corner of Long Lake and Dequindre)

**Zoning:** NN, Neighborhood Node

**Action Requested:** Site Plan and Special Use Approval

#### PROJECT AND SITE DESCRIPTION

The applicant is proposing to construct a 1,618 sq/ft ground floor addition and a 760 sq/ft second floor addition to the existing gas station at the southwest corner of Long Lake and Dequindre. The ground floor addition is for the purpose of both expanding the existing convenience store and to add additional indoor auto and part storage area. The second story addition is a private office. The proposed expansion is located on the rear of the existing building.

The applicant is not proposing any changes to building orientation, canopy orientation, or site access. However, as part of the site reinvestment, the applicant proposes significant façade improvements, and site landscaping improvements.

The site is located in Neighborhood Node J, site type A. The auto repair expansion requires a Special Use.

#### **Location of Subject Property:**

#### 2970 Long Lake



#### Size of Subject Property:

1.01 acres in area (gross) 0.58 acres in area (net)

#### **Proposed Uses of Subject Parcel:**

Gas Station (expansion)

#### **Current Zoning:**

The property is currently zoned NN, Neighborhood Node

#### **Surrounding Property Details**

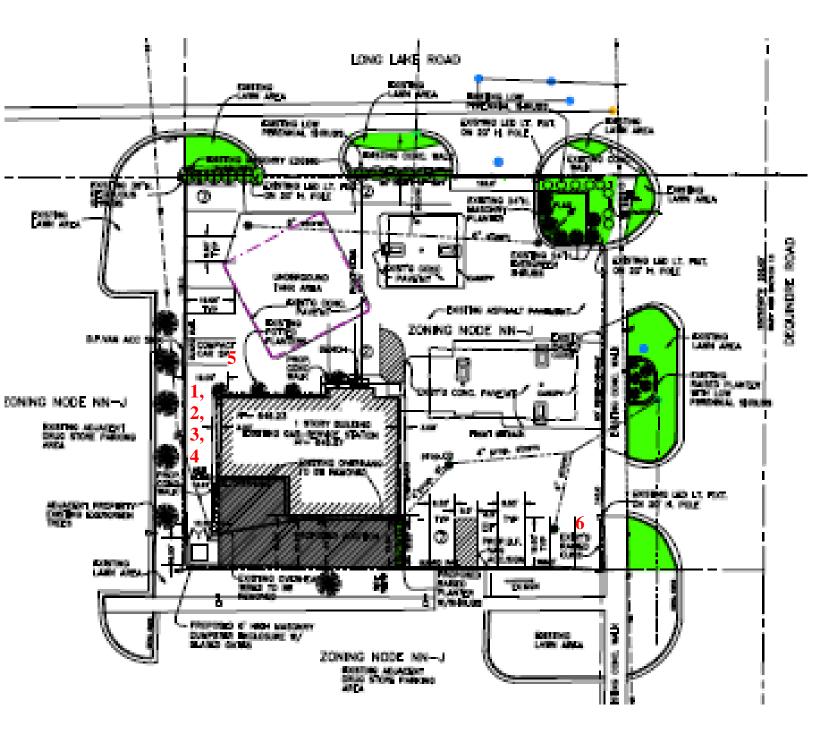
Direction	Zoning	Use
North	NN, Neighborhood Node	Commercial
South	NN, Neighborhood Node	Parking for Commercial
East	Sterling Heights	Gas Station
West	Neighborhood Node	Commercial

#### **BUILDING ORIENTATION AND LAYOUT**

The applicant is proposing to construct a 1,618 sq/ft ground floor addition and a 760 sq/ft second floor addition to the existing gas station at the southwest corner of Long Lake and Dequindre. The ground floor addition is for the purpose of both expanding the existing convenience store and to add additional indoor auto and part storage area. The second story addition is a private office. The proposed expansion is located on the rear of the existing building.

As seen by the aerial photo the site has parking and vehicle storage along the southern property line, the western property line, and in the rear of the building. Though the applicant is not proposing any changes to building orientation, canopy orientation, or site access, they are adding intensity to the small site by increasing the square footage for convenience store and storage area. To confirm the adequate of access, circulation, and parking, we offer the following comments for the Planning Commission to consider and for the applicant to address (see site plan below that highlights comments):

- The current site includes vehicle storage in an "alley" located between the western property line and the building. Is the applicant planning on keeping cars in this alley area? This alley is also the area where the proposed trash enclosure is located. How can the trash trucks get access to the to trash enclosure with cars parked in alley?
- The alley between western property line and building is 10-foot wide. Even if parking wasn't located in the alley, can a trash truck maneuver in this small area.
- 3 Section 6.26 of the Zoning Ordinance states that for auto repair facilities: Outdoor storage shall be enclosed by an opaque fence up to eight (8) feet in height and/or landscape screening meeting the standards set forth in Section 13.02.B." The applicant doesn't indicate any screening. Is overnight parking of vehicles repaired appropriate for this site. Planning Commission can consider condition that does not permit overnight parking.
- 4 Automobile oriented uses requires the screening of either 1 tree every 10 feet or a wall screening from office uses. There is an existing office use adjacent to the west. Where the applicant proposes the "alley" that property line is supposed to be screened either with a wall or landscaping.
- 5 The farthest south parking spot along the western property line blocks access to the "alley"
- The parking spot adjacent to the southernmost access point on Dequindre could block access off Dequindre when cars are pulling into and out of this spot.
- 7 From aerial photos site parking appears to already be an issue. With the proposed addition, the site is under-parked from a zoning requirement perspective. See parking section below.
- 8 On the floor plans there is an area labeled as a "waiting area" and drink bar. Is this intended to be an area for people waiting for vehicle repair?



# AREA, WIDTH, HEIGHT, SETBACKS

# **Required and Provided Dimensions:**

The site is being developed as Building Form A. Table 5.03.B1 establishes the dimensional requirements for the Building Form A:

	Required	Provided	Compliance
Front (Maple Road)	10 foot build-to- line	75-feet	Legal non-conforming
Front (Dequindre)	10-foot build-to- line	77-feet	Legal non-conforming
Side	0	0-feet	Complies
Rear	30-feet	13-feet	Does not comply. Requires a variance from the Zoning Board of Appeals
Open Space	30 percent	78%	This seems incorrect and needs to be clarified
Building Height	Minimum 14 feet Maximum 45 feet	18 feet	Complies
Parking	Not located in front yard + screening	Not located in front yard and screened	Screen Parking Parallel to Dequindre

The applicant proposes to expand the building in the rear. The western property line is considered the rear property line, and as such it requires a 30-foot setback. The existing building is non-conforming with only a 13-foot setback. The applicant is seeking to expand (lengthen) the existing non-conforming. The expansion requires a variance from the Zoning Board of Appeals.

In addition, the applicant shall screen the parking that is parallel to Dequindre, similar to how they are screening the parking parallel to Long Lake.

**Items to be Addressed:** 1). Obtain a variance from Zoning Board of Appeals to expand (lengthen) the existing non-conforming structure; and 2). Screen parking that is parallel to Dequindre.

# SITE ACCESS AND CIRCULATION

#### Vehicular access and Circulation:

Access to the site will be the existing curb cuts on Long Long and Dequindre. Both are County roads. Any work will require permit from the County. The County in their review may require the applicant to remove a curb-cut.

The Fire Department has reviewed circulation and notes that it is sufficient. As noted earlier, we have expressed concern with the parking space is parallel to the Dequindre. This space may need to be removed to ensure proper access and site circulation.

**Items to be Addressed:** None

# **PARKING**

Gas Station/Auto Repair ordinance requires as set forth in table 13.06.a:

	Required	Provided
Vehicle Fueling Station: 1 space for each 125 square feet of net floor area, plus 2 parking spaces per fueling station	10 spaces at 5 fueling stations +  1,220 square feet / 125 = 10 spaces	18 spaces + 10 fueling stations
Vehicle Repair Station 2 spaces for each service bay, plus 1 space for each tow truck if applicable, plus adequate spaces for overnight parking, plus 1 space per 1 employee on the largest typical shift	3 bays = 6 spaces 3 employees = 3 spaces	
Office: 1 space for each 300 square feet of gross floor area	760 square feet / 300 = 3 spaces	
Barrier Free	1	1
Bicycle Parking	2	0
Total	22 automobile + 2 bicycle	18 automobile + 10 at fueling stations

The use is under parked by at least 4 spaces. In addition, we note that two (2) spaces are located in places that will hinder site circulation and access. The applicant shall either provide additional parking, reduce square footage to reduce parking demand, or provide a parking study to the Planning Commission to confirm parking is sufficient.

Applicant shall also provide bicycle parking.

**Items to be Addressed:** 1). Either provide additional parking, reduce square footage to reduce parking demand, or provide a parking study to the Planning Commission to confirm parking is sufficient; and 2). Add bicycle parking.

# LANDSCAPING

The applicant has provided additional landscaping but a detailed landscape plan and landscape calculations was not provided. For example, there are areas highlighted with landscaping but size and species were not indicated.

The applicant notes 6' masonry wall to screen trash enclosure. Trash screening details were not provided on the plans.

Items to be Addressed: 1). Provide landscape details; and 2). Provide trash enclosure details.

# **PHOTOMETRICS**

The applicant indicated that they are not adding any additional site lighting. It is assumed that based upon a new façade, new lighting will be provided on the building. The applicant should provide building lighting fixture details.

**Items to be Addressed:** Provide building lighting fixture details.

# **ELEVATIONS AND FLOOR PLANS**

The applicant has submitted elevations and floor plans. The applicant is making a significant investment in the façade. The proposed materials include painted brick veneer (existing), glass, cement fiber wall panels, and decorative CMU units.

The applicant has been asked to provide material samples at the meeting and a 3-d model of building.

Items to be Addressed: Provide building material samples and 3-d model of building.

# **DESIGN STANDARDS**

Developments within the Maple Road form-based district must comply with Design Standards outlined in section 5.05.

#### **Building Orientation and Entrance**

- a. Primary Entrance: The primary building entrance shall be clearly identifiable and useable and located in the front façade parallel to the street. **The primary entrance is located in the front façade facing Long Lake.**
- b. Recessed Doorways. Where the building entrance is located on or within five (5) feet of a lot line, doorways shall be recessed into the face of the building. **Not applicable**

- c. Residential Dwellings. Entrances for all residential dwellings shall be clearly defined by at least one (1) of the following:
  - I. Projecting or recessed entrance. A recessed entrance is required if the building entrance is located on or within five (5) feet of the lot line.
  - II. Stoop or enclosed or covered porch.
  - III. Transom and/or side light window panels framing the door opening.
  - IV. Architectural trim or unique color treatments framing the door opening

### **Not Applicable**

#### **Ground Story Activation**

a. The first floor of any front façade facing a right-of-way shall be no less than fifty (50) percent windows and doors, and the minimum transparency for facades facing a side street, side yard, or parking area shall be no less than 30 percent of the façade. Transparency alternatives are permitted up to 80% of the 50% total along the front of buildings, and up to 100% of the sides of buildings. The minimum transparency requirement shall apply to all sides of a building that abut an open space, including a side yard, or public right-of-way. Transparency requirements shall not apply to sides which abut an alley.

The applicant has met the transparency requirements on the Dequnidre and Long Lake elevation.

#### **Transitional Features**

a. Transitional features are architectural elements, site features, or alterations to building massing that are used to provide a transition between higher intensity uses and low- or moderate-density residential areas. These features assist in mitigating potential conflicts between those uses. Transitional features are intended to be used in combination with landscape buffers or large setbacks.

Provided that the noted site plan issues are addressed, transitional features are provided.

#### Site Access and Parking

a. Required Parking. Off-street parking shall be provided in accordance with the standards set forth in Article 13, Site Design Standards.

The applicant does not meet the parking requirements.

- b. Location.
  - I. When parking is located in a side yard (behind the front building line) but fronts on the required building line, no more than fifty (50) percent of the total site's linear feet along the required building line or one hundred (100) feet, whichever is less, shall be occupied by parking.

#### Not Applicable

Shell Gas Station February 6, 2020

II. For a corner lot, shall be no more than fifty (50) percent of the site's cumulative linear feet along the required building lines or one hundred (100) feet, whichever is less, shall be occupied by parking. The building shall be located in the corner of the lot adjacent to the intersection.

#### **Complies**

III. For a double frontage lot or a lot that has frontage on three (3) streets, the cumulative total of all frontages occupied by parking shall be no more than sixty-five (65) percent of the total site's linear feet along a required building line or one hundred and twenty-five (125) feet, whichever is less.

#### Not Applicable

IV. Where off-street parking is visible from a street, it should be screened in accordance with the standards set forth in Section 13.02.C.

The applicant has not screened parking along Dequindre in compliance with section 13.0.2.C.

**Items to be Addressed:** Address site plan issues noted.

For any special use, according to Section 9.02.D, the Planning Commission shall "...review the request, supplementary materials either in support or opposition thereto, as well as the Planning Department's report, at a Public Hearing established for that purpose, and shall either grant or deny the request, table action on the request, or grant the request subject to specific conditions."

Section 9.03 states that before approving any requests for Special Use Approval, the Planning Commission shall consider:

- 1. Compatibility with Adjacent Uses.
- 2. Compatibility with the Master Plan.
- 3. Traffic Impact.
- 4. Impact on Public Services.
- 5. Compliance with Zoning Ordinance Standards.
- 6. Impact on the Overall Environment. The proposed Special Use shall no
- 7. Special Use Approval Specific Requirements.

Based upon the noted outstanding issues we cannot adequately address the special use standards.

**Items to be addressed**: None

#### RECOMMENDATION

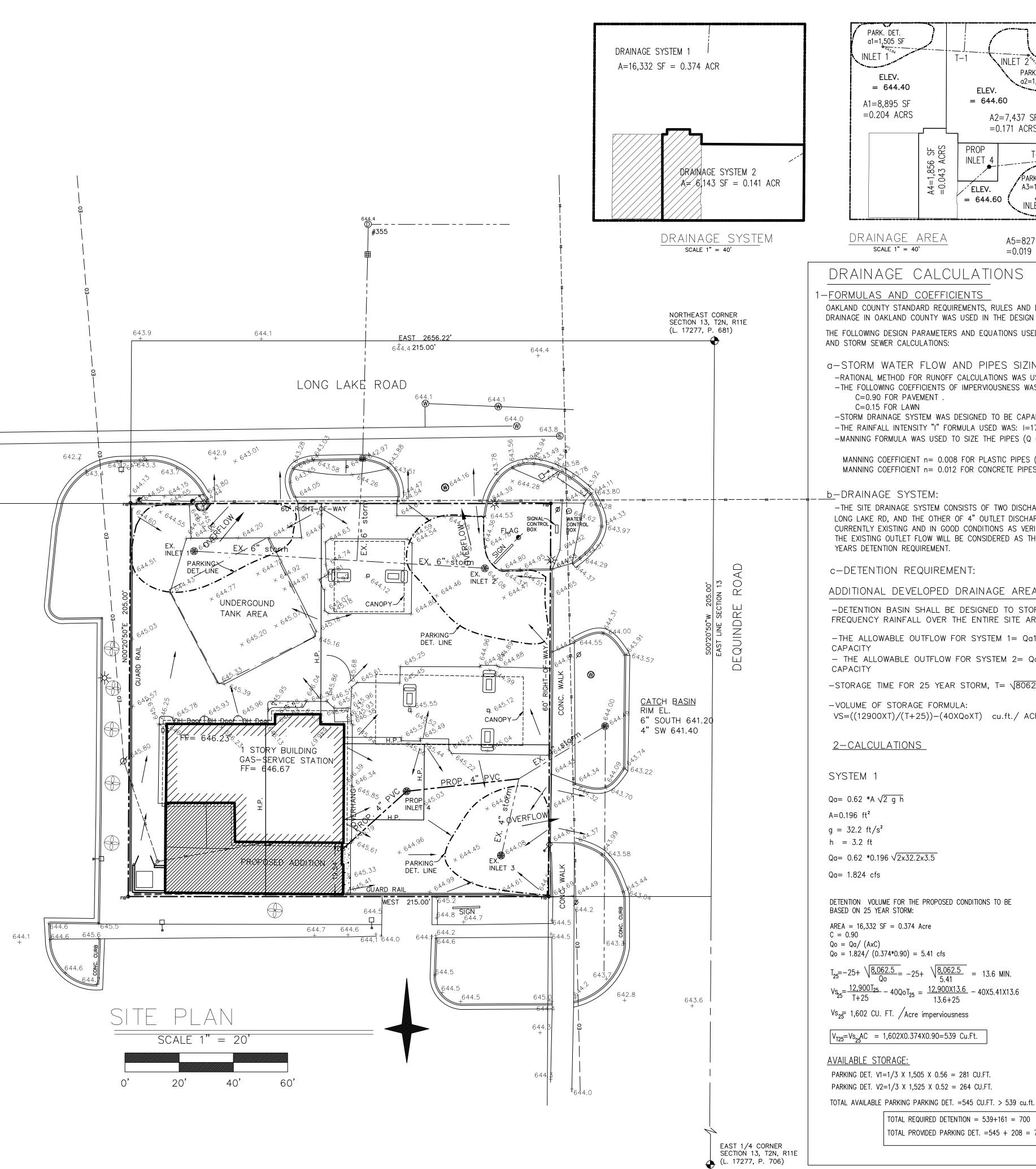
We support the reinvestment in the site but there are a number of outstanding issues that the applicant must address:

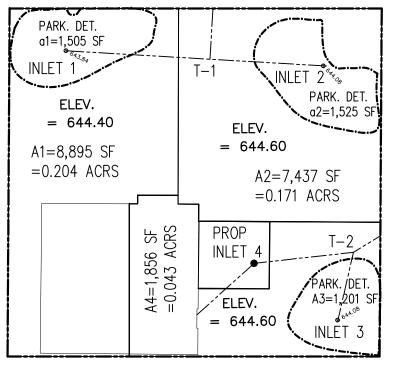
- 1. By ordinance the Planning Commission cannot take action until and if the rear yard variance is granted by the Zoning Board of Appeals. If the Zoning Board of Appeals does not grant the variance, the applicant will be required to amend the site plan.
- 2. There are a number of site plan issues that need to be discussed by the Planning Commission and addressed by the applicant:
  - a. The current site includes vehicle storage in an "alley" located between the western property line and the building. Is the applicant planning on keeping cars in this alley area? This alley is also the area where the proposed trash enclosure is located. How can the trash trucks get access to the to trash enclosure with cars parked in alley?
  - b. The alley between western property line and building is 10-foot wide. Even if parking wasn't located in the alley, can a trash truck maneuver in this small area.
  - c. Section 6.26 of the Zoning Ordinance states that for auto repair facilities: Outdoor storage shall be enclosed by an opaque fence up to eight (8) feet in height and/or landscape screening meeting the standards set forth in Section 13.02.B." The applicant doesn't indicate any screening. Is overnight parking of vehicles repaired appropriate for this site. Planning Commission can consider condition that does not permit overnight parking.
  - d. Automobile oriented uses requires the screening of either 1 tree every 10 feet or a wall screening from office uses. There is an existing office use adjacent to the west. Where the applicant proposes the "alley" is supposed to be screened either with a wall or landscaping.
  - e. The farthest south parking spot along the western property line blocks access to the "alley"
  - f. The parking spot adjacent to the southernmost access point on Dequindre could block access off Dequindre when cars are pulling into and out of this spot.
  - g. From aerial photos site parking appears to already be an issue. With the proposed additions, the site is underparked from a zoning requirement perspective. See parking section below.
  - h. On the floor plans there is an area labeled as a "waiting area" and drink bar. Is this intended to be an area for people waiting for vehicle repair?
  - i. Screen parking that is parallel to Dequindre.
  - j. Either provide additional parking, reduce square footage to reduce parking demand, or provide a parking study to the Planning Commission to confirm parking is sufficient.
  - k. Add bicycle parking.
  - I. Provide landscape details.
  - m. Provide trash enclosure details.
  - n. Building lighting fixture details.
  - o. Provide building material details and 3-d modeling.

p. Provide accurate open space calculation.

We recommend that the Planning Commission hold a public hearing, consider public testimony, and postpone action for the application to be considered by the Zoning Board of Appeals and allow the applicant to amend the site plan as noted in the report.

CARLISLE/WORTMAN ASSOC., INC. Benjamin R. Carlisle, LEED AP, AICP





=0.079

A3 = 3,46THE PROPOSED ADDITION IS ON EXISTING PAVEMENT AND WILL NOT ADD AND ANY HARD SURFACE AREA OR EXTRA DRAINAGE TO THE EXISTING STORM SYSTEM

SQ. LAKE ROAD LONG LAKE ROAD WATTLES ROAD LOCATION MAP

NO SCALE

# 1-FORMULAS AND COEFFICIENTS

SCALE 1" = 40'

OAKLAND COUNTY STANDARD REQUIREMENTS, RULES AND DESIGN CRITERIA FOR SUBDIVISION DRAINAGE IN OAKLAND COUNTY WAS USED IN THE DESIGN OF DRAINAGE SYSTEM.

A5=827 SF

=0.019 ACRS

THE FOLLOWING DESIGN PARAMETERS AND EQUATIONS USED IN RUNOFF AND STORM SEWER CALCULATIONS:

# a-STORM WATER FLOW AND PIPES SIZING:

-RATIONAL METHOD FOR RUNOFF CALCULATIONS WAS USED Q=CIA. -THE FOLLOWING COEFFICIENTS OF IMPERVIOUSNESS WAS USED C=0.90 FOR PAVEMENT

C=0.15 FOR LAWN

-STORM DRAINAGE SYSTEM WAS DESIGNED TO BE CAPABLE TO CARRY A 10 YEAR INTENSITY RAINFALL. -THE RAINFALL INTENSITY "I" FORMULA USED WAS: I=175/(T+25). -MANNING FORMULA WAS USED TO SIZE THE PIPES (Q =  $\frac{1.48}{1.48}$  A R  $^{2/3}$  S  $^{1/2}$ 

MANNING COEFFICIENT n= 0.008 FOR PLASTIC PIPES (PVC) MANNING COEFFICIENT n= 0.012 FOR CONCRETE PIPES

# b-DRAINAGE SYSTEM:

-THE SITE DRAINAGE SYSTEM CONSISTS OF TWO DISCHARGE OUTLETS, ONE OF 6" OUTLET DISCHARGES IN LONG LAKE RD, AND THE OTHER OF 4" OUTLET DISCHARGES IN DEQUINDRE RD. THESE TWO OUTLETS ARE CURRENTLY EXISTING AND IN GOOD CONDITIONS AS VERIFIED WITH VIDEO CAMERA. THE EXISTING OUTLET FLOW WILL BE CONSIDERED AS THE ALLOWABLE FLOW WHEN CALCULATING THE 25 YEARS DETENTION REQUIREMENT.

# c-DETENTION REQUIREMENT:

# ADDITIONAL DEVELOPED DRAINAGE AREA:

-DETENTION BASIN SHALL BE DESIGNED TO STORE STORM WATER FROM A 25-YEAR FREQUENCY RAINFALL OVER THE ENTIRE SITE AREA.

-THE ALLOWABLE OUTFLOW FOR SYSTEM 1= Qa1 = THE 6"Ø DRAIN FLOW

- THE ALLOWABLE OUTFLOW FOR SYSTEM 2= Qa2 = THE 4"Ø DRAIN FLOW CAPACITY

-STORAGE TIME FOR 25 YEAR STORM,  $T = \sqrt{8062.50/Qo} - 25$ 

# -VOLUME OF STORAGE FORMULA:

VS=((12900XT)/(T+25))-(40XQoXT) cu.ft./ ACRE IMPERVIOUSNESS

# 2-CALCULATIONS

SYSTEM 2 SYSTEM 1 Qa = 0.62 \*A  $\sqrt{2}$  g h Qa= 0.62 \*A  $\sqrt{2}$  g h  $A=0.087 \text{ ft}^2$  $A=0.196 \text{ ft}^2$  $g = 32.2 \text{ ft/s}^2$  $g = 32.2 \text{ ft/s}^2$ h = 3.2 fth = 3.2 ftQa=  $0.62 *0.087 \sqrt{2 \times 32.2 \times 3.2}$ Qa=  $0.62 *0.196 \sqrt{2 \times 32.2 \times 3.5}$ Qa= 0.77 cfs

Qa= 1.824 cfs

#### DETENTION VOLUME FOR THE PROPOSED CONDITIONS TO BE DETENTION VOLUME FOR THE PROPOSED CONDITIONS TO BE BASED ON 25 YEAR STORM:

AREA = 6,143 SF = 0.141 AcreC = 0.90

Qo = Qa/(AxC)Qo = 0.77/(0.141\*0.90) = 6.07 cfs

> $T_{25} = -25 + \sqrt{\frac{8,062.5}{Qo}} = -25 + \sqrt{\frac{8,062.5}{6.07}} = 11.4 \text{ MIN}.$  $V_{S_{25}} = \frac{12,900T_{25}}{T+25} - 40QoT_{25} = \frac{12,900X11.4}{11.4+25} - 40X6.07X11.4$

> > $V_{T25} = Vs_{25}AC = 1,272X0.141X0.90 = 161.4 \text{ Cu.Ft.}$

 $Vs_{25}$  1,272 CU. FT. /Acre imperviousness

# **AVAILABLE STORAGE:**

PARKING DET.  $V1=1/3 \times 1,505 \times 0.56 = 281 \text{ CU.FT.}$ 

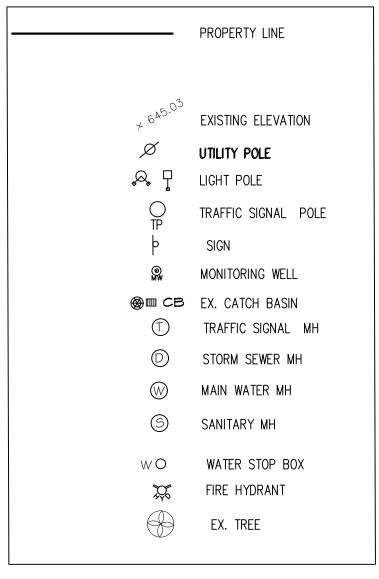
PARKING DET.  $V2=1/3 \times 1,525 \times 0.52 = 264 \text{ CU.FT.}$ 

# AVAILABLE STORAGE:

PARKING DET. V3 =1/3 X 1,201 X 0.52 = 208 CU.FT. > 161.4 cu.ft.

TOTAL REQUIRED DETENTION = 539+161 = 700 cu.ft. TOTAL PROVIDED PARKING DET. =545 + 208 = 753.00 CU.FT. > 700 CU.FT

# LEGEND:



Legal Description (as furnished by owner):

Part of the Northeast quarter of Section 13, Township, 2 North, Range II East, City of Troy, Oakland County, Michigan, described as # Beginning at the Northeast corner of Section 13, thence along the East line of said Section South 00 degrees 20 minutes 50 seconds West 205 feet thence due West 215 feet thence North 00 degrees 20 minutes 50 seconds East 205 feet thence along the North line of said Section Due East 215 feet to the point of beginning subject, however, to the rights of the public for roadway purposes and of any governmental unit over the North 60 feet and the East 60 feet thereof.

- THE UNDERGROUND DRAINAGE AS HEREON SHOWN ARE BASED ON FIELD OBSERVATIONS AND A CAREFUL REVIEW OF MUNICIPAL AND UTILITY RECORDS. AND THE VIDEO CAMERA BY PLUMBING COMPANY HIRED BY THE OWNER, HOWEVER IT IS NOT POSSIBLE TO DETERMINE THE PRECISE SIZE, LOCATION, DEPTH, OR ANY OTHER CHARACTERISTICS OF UNDERGROUND UTILITIES WITHOUT EXCAYATION. THEREFORE WE CAN NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE BURIED UTILITY INFORMATION HEREON SHOWN.

ENGINEERING & DESIGN, LL

28763 NORTHWESTERN HW SUITE 225 SOUTHFIELD, MI 48034 Office (248)747-4562 Fax (248)297-6121 Cell (248)376-5006

harishakim@yahoo.com

SHELL GAS STATION PROPOSED BUILDING RENOVATION

2970 E LONG LAKE RD. TROY, MI 48085

LOCATION:

STARCO MANAGEMENT COMPAN 2970 E LONG LAKE RD. TROY, MI 48085 ph. (248)689-8200 starcomanagement@yahoo.co

SUBMITAL:

DATE 12/17/2019

REVISIONS:

# DESIGNED BY:

DRAWN BY:

APPROVED BY:

HARIS HAKIM, P.E.

<u>SEAL</u>

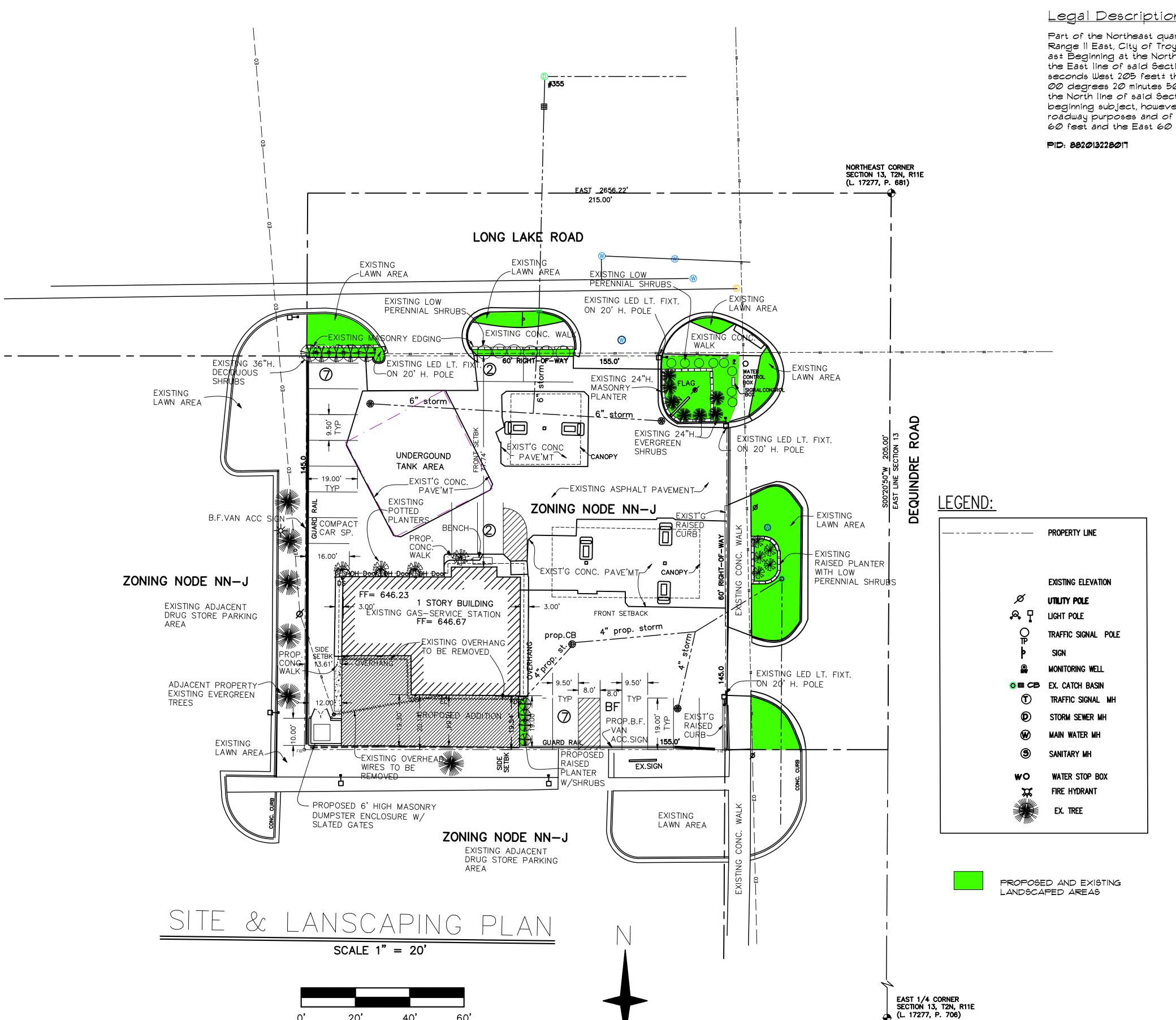
# SHEET TITLE

SITE PLAN / DRAINAGE

NOTED

 $\mathbb{C}$  —  $\mathbb{C}$ 

SHEET #



# SQ. LAKE ROAD LONG LAKE ROAD SITE Sof Section 13, Township, 2 North, land County, Michigan, described corner of Section 13, thence along buth 00 degrees 20 minutes 50 due West 215 feet to the point of the rights of the public for povernmental unit over the North LOCATION MAP

Legal Description (as furnished by owner):

Part of the Northeast quarter of Section 13, Township, 2 North, Range II East, City of Troy, Oakland County, Michigan, described as Beginning at the Northeast corner of Section 13, thence along the East line of said Section South 00 degrees 20 minutes 50 seconds West 205 feet thence due West 215 feet thence North 00 degrees 20 minutes 50 seconds East 205 feet thence along the North line of said Section Due East 215 feet to the point of beginning subject, however, to the rights of the public for roadway purposes and of any governmental unit over the North 60 feet and the East 60 feet thereof.

# GENERAL SITE & BUILDING INFORMATION

\* <u>ZONING</u> - NODE NN-J STREET-HIGH INTENSITY NN-A

\* <u>USE GROUP:</u> - GAS STATION WITH REPAIR FACILITY

\* <u>SITE AREA</u>- 44,075 SF. (1.01 ACRES)

SITE AREA EXCLUDING ROW= 22,475 SF (0.52 ACRES)

\* OPEN SPACE REQUIRED OPEN SPACE - 30% PROVIDED OPEN SPACE - 11,569/22,475=78%

\* FORM BASE SETBACKS (BUILD'G. FORM A)
REQUIRED FRONT - 10' - PROVIDED -15.1' \$ 11.1'
REQUIRED SIDES - 0' - PROVIDED - 0.53'
REQUIRED REAR - 30' - PROVIDED - 13.6'

# \* BUILDING AREAS

EXISTING BUILDING PROPOSED GROUND FLOOR	- 2,528 GSF.
ADDITION PROPOSED SECOND FLOOR	- 1,618 GSF. - 760 GSF.
TOTAL BUILDING	- 4,906 GSF.

# \* PARKING REQUIREMENTS

GAS STATION - 2 SPACES PER FUELING STATION PLUS EACH 125 SF. OF NET FLOOR AREA

REPAIR STATION- 2 SPACES/ EA. BAY PLUS 1 SPACE PER EACH EMPLOYEE PLUS ADEQUATE SPACES FOR OVERNIGHT PARKING

COMMERCIAL RETAIL AREA- I SPACE PER EA. 250 GSF

PROVIDED - 18 CAR SPACES (EXISTING)

(DOES NOT COUNT FILLING STATION PARKING AREAS)

OVERNIGHT CAR STORAGE WITHIN PROPOSED STORAGE AREA AND ALONG WEST DRIVE AREA

# \* SITE LIGHTING

EXISTING SITE LIGHTING ARE (4) LED LIGHT FIXTURES ON 20' HIGH POLES AT THE (4) ENTRANCE/EGRESS DRIVES AND FROM GAS PUMP SURF. MOUNTED PUMP STATION CANOPIES.

THERE ARE ALSO EXISTING PERIMETER BUILDING INDIRECT STRIP LIGHTS AS WELL AS PROPOSED RECESSED DOWN LIGHTING UNDER THE PROPOSED ENTRANCE CANOPY.

# \* LANDSCAPING (15% REQUIRED)

EXISTING LANDSCAPING ARE FRONTAGE GREENBELTS
AND RAISED PLANTING AREAS WITH DECIDUOUS AND
EVERGREEN SHRUBS AND LARGE POTTED PLANTS ALONG
THE EXISTING BUILDING EXTERIOR.

ADDITIONAL POTTED PLANTS ARE PROPOSED ALONG THE MAIN ENTRANCE AND A RAISED LANDSCAPING PLANTER ALONG THE EAST SIDE OF THE PROPOSED ADDITION .
SEE ENLARGED FLOOR PLAN SHEET A-1.0

# \* <u>SIGNS</u>

EXISTING GROUND SIGN APPROXIMATELY 45 SF. OCCURS AT NORTH EAST CORNER OF PROPERTY ON A 2' HIGH RAISED LANDSCAPING AREA WHICH IS TO REMAIN AS IS.

ELEVATION IS TO RE-USE THE EXISTING SIGNAGE CURRENTLY ON THE EXISTING FACADE.

THE PROPOSED RE-FACING OF THE BUILDING NORTH

NO NEW SIGNS ARE CURRENTLY BEING PROPOSED.

# \* EXTERIOR ELEVATION FRONTAGE

TRANSPARENCY (BUILDING FORM A)
50% TRANSPARENCY IS REQUIRED BETWEEN FOR ROW
FRONTAGE AND 30% FOR SIDES MEASURED BETWEEN 2'-8'
ABOVE FINISH FLOOR.

THE NORTH ELEVATION ALONG LONG LAKE ROW FRONTAGE HAS A EXISTING 53% (50% REQ'D.) TRANSPARENCY TO REMAIN AS IS.

THE EAST ELEVATION ALONG DEQUINDRE ROAD ROW FRONTAGE HAS A 70% (50% REQ'D.) TOTAL TRANSPARENCY WHICH INCLUDES THE EXISTING EXTERIOR AREA WITH THE PROPOSED ADDITION.

THE WEST SIDE ELEVATION FACING THE ADJACENT SITE HAS A SIDE TRANSPARENCY OF 56% (30% REQ'D.) OF THE WALL

# SHEET INDEX

SHT. NO.

SHEET DESCRIPTION

SP-0 COVER SHEET & ARCHITECTURAL SITE

**SP-1.0 EXISTING TOPOGRAPHIC SURVEY** 

C-1 SITE DRAINAGE SYSTEM & CALCULATIONS

A-1.0 FIRST & SECOND FLOOR PLANS

A-2.0 EXTERIOR ELEVATIONS & EXTERIOR PERSPECTIVE

ALAJIAN

ARCHITECTURE & DESIGN LLC 1871 AUSTIN DRIVE

TROY MICHIGAN

OFFICE: 248-524-3616 FAX: 248-524-0217 ackalajian@abcglobal.net

PROPOSED
BUILDING
RENOVATION &
ADDITION

OWNER & CONTACT PERSON SAM ASKAR

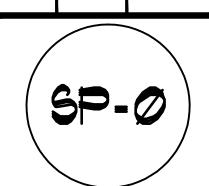
PH: 248-961-3010 E-MAIL bdaskar@gmail.com

> SHIIL GAS STATION 2910 East Long Lake troy, MI, 4838

DESCRIPTION:

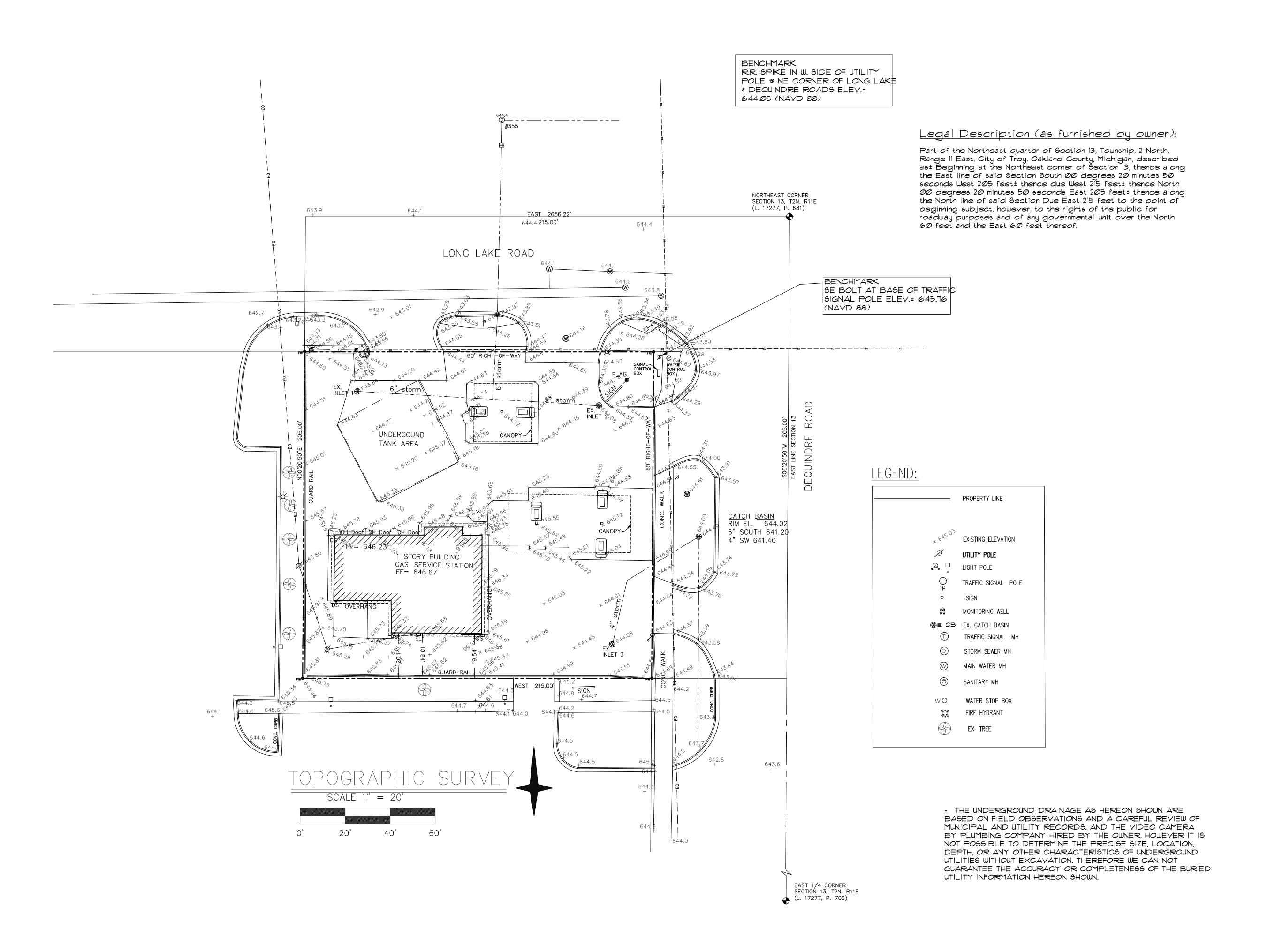
COVER SHEET & ARCHITECTURAL SITE & LANDSCAPING PLAN

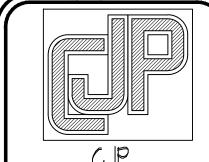
JOB NO. 8G8-19



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ENGINEERING & DESIGN, LLC

28763 NORTHWESTERN HWY SUITE 225 SOUTHFIELD, MI 48034 Office (248)747-4562 Fax (248)297-6121 Cell (248)376-5006

harishakim@yahoo.com

PROJECT:

SHELL GAS STATION PROPOSED BUILDING RENOVATION

LOCATION:

2970 E LONG LAKE RD. TROY, MI 48085

<u>OWNER:</u>

STARCO MANAGEMENT COMPANY
2970 E LONG LAKE RD.
TROY, MI 48085
ph. (248)689-8200
starcomanagement@yahoo.com

SUBMITAL:

<u>DATE</u> 12/17/2019

REVISIONS:

DESIGNED BY:

DRAWN BY:

<u>APPROVED BY:</u> HARIS HAKIM, P.E.

<u>SEAL</u>

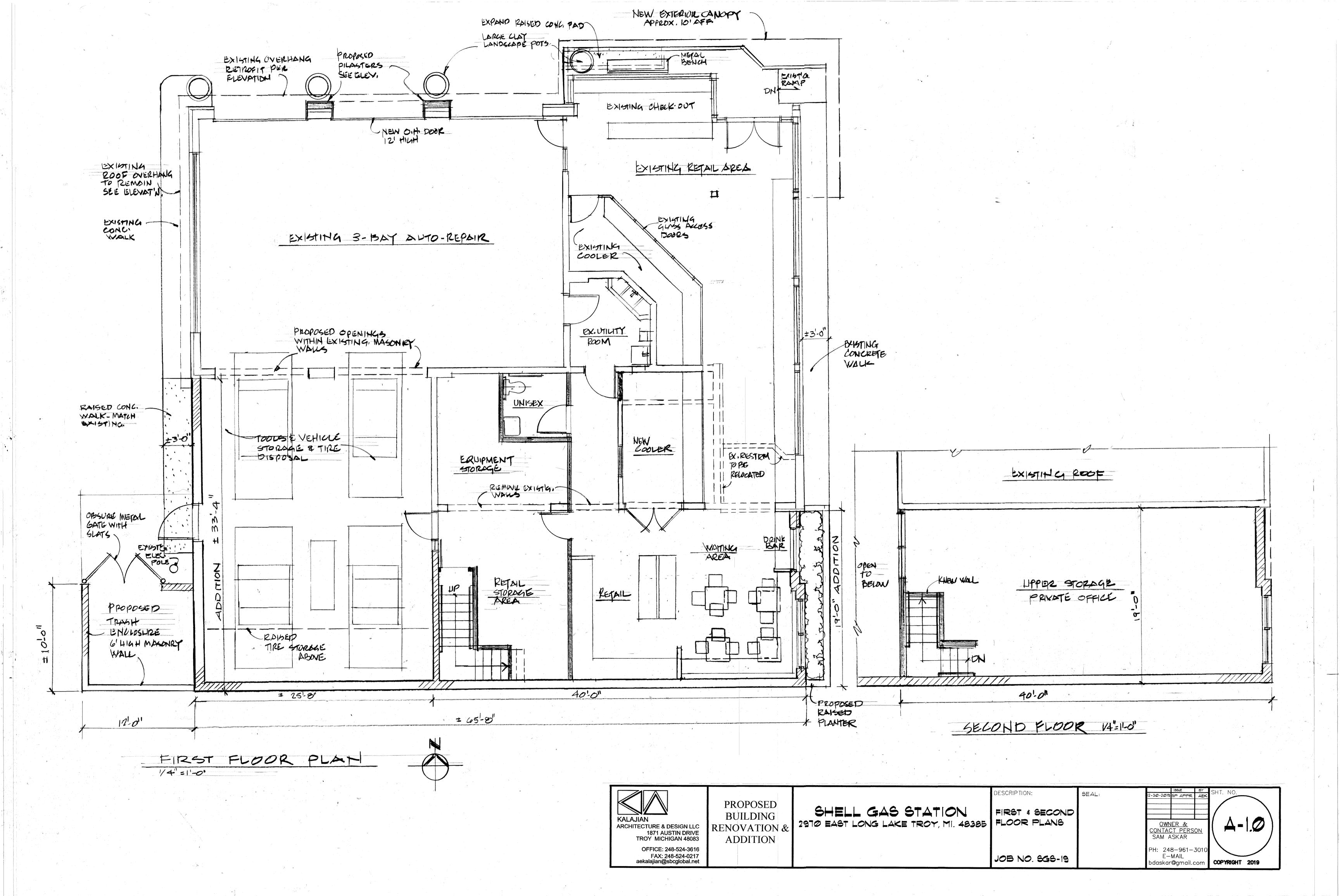
SHEET TITLE

SURVEY

<u>SCALE</u> NOTED

SHEET

SP\_







1871 AUSTIN DR., TROY, MI. 48083 o: 248-524-3616 f: 248-524-0217

e: aekalajian@sbcglobal.net

# Long Lake / Dequindre Shell Station Re: Project at 2970 E. Long Lake Rd. Troy, Mi.48385

January 03, 2020

# **Architectural Design Concept**

Attn: Brent Savident
Planning Director

The Owner to this facility, Sam Askar of Elbassim LLC., is desirous to give a new look to the existing gas station/retail/repair facility of 2,528 sf. as well as adding to the side/rear of existing facility with a ground floor addition of approximately 1,618 gsf. and a second floor 760 gsf.

**Project Scope:** this project is further addressed below as outlined in part 6 sections A-F within the site Plan Application Form:

**6.A. Character of the Ares :** The Site is currently a fully developed hard surface area with some frontage landscaping as shown within the site plan. A additional catch basin is proposed in order improve the storm detention system to current standards.

The (4) existing entrance/egress into the site are to remain as is which was reviewed by the City Traffic Engineer. The primary change that is being proposed will occur to the existing building which occurs within the SW portion of the site.

- **B. Design Concept:** The primary design goals are to enhance the look of the existing building into a more contemporary looking structure and expand the building within the current outdoor storage area along the southwest portion of the site which fronts the parking spaces of the adjacent drug store.
- **C. Achieving the Design Concept:** This proposed addition not only provides additional retail to a small and tight retail area but provides a waiting area for the patrons that may wait as their car is being serviced and provides as enclose area for the current outdoor storage of tires and some of the vehicles undergoing repair.

The proposed building face lift as well as the proposed addition will enhance the visual impact of the building and cleanup the overall site. The middle service bay overhead door is also being proposed with an increased in height to facilitate taller vehicles.

**D. Description of the intended uses:** The addition moves the present Owners private office onto a larger second floor area within the proposed addition. The proposed ground floor addition of 1,618 gsf. will expand the present retail area, provide a waiting area for customers and add storage to the rear to 2 of the 3 repair auto bays which can store equipment, tires and vehicles being repaired.

**E. Description of the building materials:** The proposed addition along the street frontage will have cement fiber board wall panels with glazing. The rear and sides of the proposed addition will be decorative cmu blocks.

The exterior sides of the existing building will have a new façade fiber cement wall panels above the existing glazing and entrance. A larger projected entrance canopy of cement fiber panel is proposed over the existing entrance and the existing brick and overhead doors are to be repainted.

The primary change is to the façade material is the replacement of the sloped current EIFS. mansard with a vertical fiber cement wall system with various textures and and coloration as shown within the proposed perspective and elevations..

F. Form base district transparency requirements: This project has been primarily developed prior to the current form base zoning guidelines. This proposed project fits the designation of Building Form A where the ROW building elevation frontage require a 50% transparency and the sides a 30% transparency as measured from 2'-8' above finish floor.

The frontage facing Long Lake(North Elevation) has a transparency of 53% of the total exterior elevation wall area and is comprised of all the existing window glazing and glass doors.

The frontage facing Dequindre Rd.(East Elevation) has a glazing transparency of approximately 70% of the total proposed and existing exterior elevation where 70% of this exterior is existing.

The side elevation (West Elevation) has a transparency of 56%.

Sincerely,

Arthur E. Kalajian R.A

