

AGENDA

Green Oak Charter Township Planning Commission Regular Meeting Thursday, March 7th, 2024 7:00 p.m.

- 1. Call to Order
- 2. The Pledge to the Flag
- 3. Roll Call of the Commission
- 4. Approval of the Agenda
- 5. Approval of February 15, 2024, Meeting Minutes
- 6. Call to the Public (Limited to agenda items only)

7. Business Items:

- A. Public Hearing for Special Approval Use SAU 02-2024 Legacy Center Wellness Center Building, New Phase 1F to allow for a school at this location. Legacy Park Planned Unit Development on a 90.77-acre site on tax parcel ID number 4716-20-100-003.
- B. Site Plan Approval for parcel 4716-20-100-003 Phase 1F Legacy Center Wellness center.
- C. Discussion on adding a New Section of the zoning ordinance Article IV. Supplementary Regulations Sec. 38-202. Event Barns.

8. Reports

- A. Chairman Report
- B. Township Board Representative
- C. Zoning Board of Appeals Representative
- D. Planning Consultant
- E. Correspondence
- 9. Call to the Public
- 10. Adjournment

Posted: February 29, 2024

PLANNING COMMISSION

Cris Burkhalter, Planning Commission Chairperson Dwayne Janke Keith Lee Lary Marshall Doug Nale

Michael Sedlak, Twp. Board Rep. Sarah Pearsall, Secretary

1				
2	Green Oak Charter Township			
3	Planning Commission			
4		Regular Meeting Minutes		
5		February 15, 2024		
6			Approved:	
7 8				
9	The meeting was	called to	order by Mr. Burkhalter at 7:00 p.m.	
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11	5 " 6 "	0.5		
12	Roll Call:		ırkhalter	
13 14		Keith L	e Janke	
15		Lary Ma		
16		Doug N		
17			Pearsall	
18		Michae	l Sedlak	
19	Alaa Draganti	Dobro	Makannia Zaning Administrator	
20 21	Also Present:		McKenzie, Zoning Administrator e Marin, Carlisle Wortman	
22			iner, CES	
23				
24	Guests:	14		
25				
26 27	APPROVAL OF	AGENDA		
28	ALL KOVAL OL	HOLINDA		
29			second by Nale	
30	To approv	e the age	nda as presented.	
31 32	Voice Vote:	Aves:	Unanimous	
33		Nays:		
34				
35	MOTION APPRO	<u>VED</u>		
36 37				
38	APPROVAL OF I	MINUTES		
39	<u> </u>			
40	Mr. Marshall added a word to the minutes and the correction was made. Page 3, line			
41	116 with the addition of the word "not".			
42 43	Matian by	Morchall	coond by Janka	
43 44	Motion by Marshall, second by Janke To approve the January 18, 2024 minutes as amended.			
45	app. • •			
46	Voice Vote:	•	Unanimous	
47		Nays:	None	
48	MOTION ADDDO	VED		

February 15, 2024

49

CALL TO THE PUBLIC - None

BUSINESS ITEMS

A. SP02-2024 Site plan approval for a new phase – Phase 1E – of the Legacy Park Planned Unit Development on a 90.77-acre site on tax parcel ID number 4716-20-100-003. Legacy Center – Field Hockey Field, Phase 1E

 Ms. Marin referenced the Carlisle Wortman memo dated February 2, 2024. In general, the site plan lacks the details needed to demonstrate compliance with the overall approved Legacy Park PUD agreement. Carlisle Wortman recommended that the applicant address the following items before the Planning Commission takes action on the proposed site plan.

- 1. Applicant to provide bleacher dimensions.
- 2. Applicant to provide lengths and widths of all proposed walkways.
- 3. Applicant to provide lighting plan and photometric map that demonstrates compliance with Sec. 38-364 of the Zoning Ordinance, if new lighting is proposed.
- 4. Applicant shall provide parking calculations that indicate all uses and parking areas within the Legacy Center PUD area.
- 5. Applicant to provide landscaping plan that demonstrates compliance with Sec. 38-177 of the Zoning Ordinance.
- 6. We defer to the Township Engineer to review grading, drainage, and soil erosion and sedimentation control plans.
 - 7. Applicant to provide sign details that demonstrate compliance with Article 9 of the Zoning Ordinance.

Mr. Miner referred to the CES memo dated February 15, 2024. The application they received for this item was an engineering review application, and Boss Engineering has addressed those items. There are a few site plan issues. Parking has been mentioned, they note improvements from previous phases are not complete, but they do have cash deposits to cover those. They have a concern with the onsite sewage system to handle the proposed expansions, the field hockey facility doesn't affect the sanitary. They have a concern with the number of spectators, tournaments, they know this is also being addressed by Boss Engineering and that information is forthcoming.

Brent LeVanway, Boss Engineering

90 Rodney Goble, The Legacy

91 Keely Tamer – Great Lakes Field Hockey

Mr. LeVanway explained phase 1E is consistent with the original PUD, it's straightforward, it's going to be a field hockey field, this will be the first one and it will be run by Great Lakes Field Hockey. There will be a retaining wall at the south end, that is also where the scoreboard will be mounted, it won't be visible from anywhere except on the field itself. The bleachers are minimal with seating for 84 people, and they will not be terraced earth, they will be bleachers and parking is 84. There is no lighting

proposed, strictly used during daylight hours. There are some additional sections of sidewalks proposed too. There is no landscaping proposed but there is some in the south area. They are pleased to address the concerns in Carlisle Wortman as those come up.

Clerk Sedlak confirmed there is no night field hockey, there is no bleed over lighting from the ball fields. Mr. Goble stated no, in the previous site plan amendment the lighting was decreased and there are lit fields on the soccer and ball fields but that is all, to the field hockey specifically there are no plans to light it.

Mr. Nale stated they are figuring 84 people, he could see them doing tournaments, it seems awfully light.

Ms. Keely Tamer from Great Lakes Field Hockey explained it's developmental play and growing the sport, it's not tournaments. There is just one field that is not a place that tournaments would be held. 84 people at that field is realistic. Typically, they have about 15-20 people on a team.

Mr. Nale questioned how does EMS access the site if someone was to get hurt? Mr.
LeVanway stated they have two options, they could park in the south parking lot and go
down the stairs, or park in the north parking lot which is at field level. He confirmed
there are approximately 30 stairs to go down on the south side.

Mr. Janke stated there are shortcomings as presented, are they working on those. Mr.
LeVanway explained the landscaping is already present in the south parking lot, and
there is no lighting, they have addressed the concerns by the discussion this evening.
Mr. Janke questioned the sign. Mr. LeVanway stated they haven't worked through that
detail yet, a scoreboard is not considered a sign, it will be a standard sports scoreboard,
and there is no visibility of the scoreboard from Winans Lake Road.

Mr. Lee questioned the total parking. Ms. Marin stated because there was a deviation in the use, 84 is not a high number, however they are using the same area, all of the as proposed uses is assessed for the total usage.

Mr. Marshall stated since it deviates from the PUD agreement do they go through an amendment process for the PUD. Clerk Sedlak stated yes, and they can confirm that with the Township Attorney.

Mr. Nale questioned the items on the outstanding punch list. Mr. Goble stated one is like a dumpster enclosure and the topcoat of asphalt on the south parking lot. There are cash bonds on all of the items. There are also items that have come off that list. Mr. Gobel agreed the dumpster enclosure could be completed now.

Motion by Pearsall, second by Marshall

To approve SP02-2024 Site plan for the field hockey field, phase 1E Lagacy Center.

- 144 Center.
 145 1. Addresses all outstanding items in Planner's report dated February 2,
 146 2024.
 - 2. Addresses all outstanding comments in the engineer's report dated

148	February 15, 2024.		
149	3. Also, if needed, an administration review with the attorney on the PUD		
150 151	Amendment.		
151	Roll Call Vote:	Ayes: Unanimous	
153	Non Can Vote.	Nays: None	
154		rays. Hone	
155	MOTION APPROV	ED	
156		=_	
157			
158	B. SP03-2024 Legacy	Center – Wellness Center Building, Phase 1F Site plan	
159	and special approv	al use application for a new phase – Phase 1F – of the	
160	Legacy Park Planne	ed Unit Development on a 90.77-acre site on tax parcel ID	
161	number 4716-20-10	0-003.	
162			
163		e Carlisle Wortman memo dated February 2, 2024. Clerk	
164	•	s information will be reviewed at the required public hearing,	
165		until then so all the information is heard at the same time as	
166	the public hears it.		
167	Mation by Sadlak	coond by Marchall	
168 169		second by Marshall after the public hearing on March 7, 2024.	
170	To postpone until	arter the public hearing on march 7, 2024.	
171	Voice Vote: Ayes:	Unanimous	
172	Nays: None		
173	,		
174	MOTION APPROVED		
175			
176		t amendment for Zoning Regulations on Wedding Event	
177	Barns.		
178			
179		a highly welcomed idea but they need to set some criteria.	
180	The existing venue in Brighton Township is on a main paved thoroughfare. Having the		
181 182	location be off of a paved road is important. The applicant needs roughly 14 acres, so		
183	they need to discuss a minimum acreage requirement. They can create a zoning district that will meet the criteria.		
184	that will meet the chteria.		
185	Ms Marin explained they	do have sample language and best practices from other	
186		ested setting a minimum acreage, must be on a paved road,	
187	and must be on sewer/water, to name a few. She will send the outline to the		
188	Commissioners so they can provide feedback.		
189	•	•	
190	Mr. Marshall noted the nu	imber of people allowed should be contingent on the size of	
191	the parcel and have some	way of scaling that.	
192			
193	<u>REPORTS</u>		
194			
195	<u>Chairman</u> – None	and attended to the latest and the l	
196	Iownship Board Represe	entative – Clerk Sedlak reported the new treasurer has	

197	started and is doing a terrific job. They are at full tilt for the election, and they are in
198	need of election workers. They are being warned from people at high levels for
199	potential voting disruptions.
200	Zoning Board of Appeals Representative – None
201	<u>Planning Consultant</u> – Ms. Marin thanked the Commissioners for the welcome.
202	<u>Correspondence</u> – None
203	
204	CALL TO THE PUBLIC - None
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206	
207	<u>ADJOURNMENT</u>
208	
209	The Planning Commission meeting adjourned at 7:50 p.m. due to no further business.
210	
211	
212	Respectfully Submitted,
213	
214	Kellie Angelosanto
215	
216	Kellie Angelosanto
217	Recording Secretary



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Via Email

February 29, 2024

Debra McKenzie
Planning & Zoning Administrator
Green Oak Township
1001 Silver Lake Rd.
Brighton, Michigan 48116
E-Mail:
debra.mckenzie@greenoaktownship.com

Re: SP03-2024-Legacy Center Wellness Center Building

Dear Ms. McKenzie:

As you know I am counsel to Legacy Center in this matter. This letter addresses comments raised by Carlisle/Wortman in their review letter dated February 2, 2023, regarding the special land use considerations for the proposed Livingston Christian School (the "School") tenancy in the proposed Legacy Center Wellness Building. After speaking with Mr. Montagno yesterday, I have a better understanding of his comments and thought it more efficient to respond in advance than to wait until the public hearing next week. I would appreciate it if you would include this letter in the materials to be given to the Planning Commission in preparation for the public hearing. The focus below is strictly on the special land use standards with respect to the School.

1. Will be harmonious and in ordinance with the general objectives or any specific objectives of the Township's Master Plan.

Schools are specifically allowed as a special land use (SLU) in the Village Mixed Use-2 (VMU-2) zoning district. A special land use is a use that is generally permissible in the district, but because of unique factors may require more detailed scrutiny and provides the Planning Commission with discretion to impose reasonable conditions. Schools are often special land uses. Indeed, the wellness building itself is a special land use in the VMU-2 district, but such health care uses were previously approve through the PUD. This special district encourages a mixture of uses, including commercial, business, recreational and residential. As the 2023 Master Plan states it is not desired that the entire property be developed for commercial uses. Although the term mixed-use is not defined in the Zoning Ordinance, the term typically refers to both vertical and horizontal mixed uses. The proposed school is a compatible use in a mixed-use building. Mr. Montagno states in his report that a school should be free standing. This is not required anywhere in the Zoning Ordinance. After discussing the matter with Mr. Montagno, it appears that the



Date: July 31, 2023

Revised: December 22, 2023 Revised: February 2, 2024

Preliminary Site Plan / Special Approval Use Review for

Green Oak Township, Michigan

Prepared for: Planning Commission

Prepared by: Paul Montagno, AICP

Michelle Marin

Applicant: Rodney Goble

Project Name: Legacy Center – Wellness, Phase 1F

Plan Date: May 1, 2023

Revised: August 23, 2023, received October 12, 2023

Revised: January 17, 2024

Location: 9299 Goble Drive

Zoning: PUD (Village Mixed Use - 2)

Action Requested: Preliminary Site Plan Approval

PROJECT and SITE DESCRIPTION

The applicant is requesting site plan approval for a new phase - Phase 1F - of the Legacy Park Planned Unit Development on a 90.77-acre site on tax parcel ID number 4716-20-100-003.

The subject site is zoned PUD Village Mixed Use - 2. It is located within the Legacy Park Open Space Planned Unit Development (PUD) district, a 285-acre PUD. The overall PUD is located north

and south of Winans Lake Road between Whitmore Lake Road and Rickett Road. The parking lot and pickleball/tennis court areas of this subject site lie to the west of open space zoned PL – public land.

The site plan proposes three areas: a pickleball/tennis court area, a parking lot extension, and a wellness center building with medical facilities and a private school. A pull-off area is also proposed adjacent to the east side of the fieldhouse, providing a drop-off area outside the existing fieldhouse and the proposed wellness center. The pull-off area is proceeded by a 47-car stacking lane that meanders through the parking lot.

The 107,035 sq-ft wellness center will include one below-grade level, an entry-level, and an upper level. Along with the existing sports buildings, this new building will bring the total building area to 310,169 sq-ft. The fitness facilities for Phase 1 of the Legacy Center project are exempt from the aggregate and single-user square foot limitations set forth in Section 38-138(g)(2)(b) of the Zoning Ordinance.

The lower level is proposed to include most of the fitness club spaces including strength training, spinning, yoga, boxing gymnastics, cardio, dance, pool area, locker rooms, laundry facilities, and a turf area. The entry-level is proposed to feature an urgent care, medical and physical therapy spaces, and several tenant spaces, including a café space. The upper level is proposed to house more fitness spaces, sixteen (16) classrooms, a cafeteria, and administrative offices.

Pickleball courts and pavilion

Parking lot extension

Wellness center

Pull off area

Figure 1 Aerial Image of Subject Site and Vicinity

Source: NearMap

Legacy Center – Wellness Building February 2, 2024

The project layout and proposed uses are generally consistent with the overall Legacy Park PUD agreement that was amended and approved by the Planning Commission and subsequently the Township Board on February 15, 2017. There are, however, several deviations from the approved PUD agreement.

The first deviation is the pickleball/tennis court area: the overall Legacy Park PUD agreement indicated that this area would instead be occupied by three (3) full-sized tennis courts and did not include a pavilion that is adjacent to the existing sanitary treatment area. We do not see these changes to be a significant change to the PUD.

A second deviation is the proposed entry-level café space and upper-level cafeteria. The PUD agreement only specifies food service establishments as being permitted in the commercial area in Phase 2. There are access doors to the cafeteria from both the common corridor and the school, indicating that cafeteria access will be shared among general wellness center members and/or staff and the students. The entry-level café and retail spaces are designed to service fitness club members, but the applicant notes that the general public will not be excluded from using the café or the cafeteria.

The pull-off area proposed to the west of the east parking lot and the stacking lane is also a deviation from the PUD Agreement. The applicant has indicated that the intent of the pull-off area and stacking spaces is to accommodate the proposed school use. A school is considered a Special Approval Use in the VMU District. According to the PUD agreement, Special Approval Uses listed in the VMU District could be allowed if the special use standards of the Zoning Ordinance are satisfied. Therefore, this use must be considered based on the process and criteria in Section 38-44 of the Zoning Ordinance. The applicant has applied for special approval use for the school. An evaluation of the special use standards is provided in the following section of this report.

Items to be Addressed: (1) Planning Commission shall discuss deviations from the PUD Agreement. (2) The proposed school use must be considered by applying the process and criteria in Section 38-44 of the Zoning Ordinance.

SPECIAL LAND USE CONSIDERATIONS

The applicant has applied for special use approval for the Livingston Christian School within the wellness center building. A school is a use that may be permitted under the PUD Agreement and the VMU-2 District, subject to special land use approval. According to Section 38-44(b), the Planning Commission shall hold a public hearing, notice of which shall be given in accordance with Section 103 of the Michigan Zoning Enabling Act, Public Act No. 110 of 2006. The Planning Commission may deny, approve, or approve with conditions a special approval use permit. According to Section 38-44(c), the Planning Commission shall review the proposed special approval use in terms of the standards stated and shall establish that such use and the proposed location meet the following standards:

1. Will be harmonious and in ordinance with the general objectives or any specific objectives of the Township's Master Plan.

CWA Comment: This area of the Township is designated for village mixed-use. Per the master plan, the intent of the Village Mixed-Use district is to create a "village-like" atmosphere with areas of various uses that are interconnected, pedestrian friendly, and blend community-oriented business development with single-family residential, attached multiple-family residential, and senior citizen housing/services. While schools are contemplated as a potential component of the Village Mixed-Use district, the intent is for a walkable, free-standing neighborhood school that would not be located with other uses in a building and that would provide the dedicated outdoor recreation areas required for the students' use. The proposed school is a private school that draws students from the region, not a local neighborhood school. The applicant indicated in the letter dated October 12, 2023, that students arrive by private car. They also note that students from the future neighborhood could attend the school; however, this is not a neighborhood school. The first Community Facilities and Services goal of the draft 2023 Master Plan indicates that all schools should be functional, safe, and accessible. The placement of this school within the Legacy Center Wellness Building is not functional, as discussed in this review.

2. Will be designed, constructed, operated, and maintained to be harmonious and appropriate in appearance with the existing or intended character of the general vicinity and will not change the essential character of the area.

<u>CWA Comment:</u> Prior to the inclusion of the proposed building and additional uses, current operations generate intense traffic. Schools tend to increase traffic significantly, particularly during early morning and mid-afternoon peak hours. The new August 28, 2023, trip generation study indicates a predicted increase in AM peak traffic as a result of the school use. It is unclear if the urgent care facility was included in this traffic study, as only an ITE medical office land use is identified in the analysis. The applicant response letter, dated January 19, 2024, does not offer clarity on this point. Further, the proposed stacking lane, which is intended for the school use, meanders through the parking lot, blocking parking spaces and impeding circulation.

The applicant indicated in the letter dated October 12, 2023, that the on-site availability of basketball, volleyball, baseball, softball, and soccer facilities far exceeds the recreation opportunities of many other schools; the applicant has not indicated how student use of the recreation facilities at Legacy Center will be balanced with the use of these facilities by club teams, fitness club members or if any separation of facility use is proposed during school hours. There do not appear to be any outdoor recreation areas specifically dedicated solely to the school. The absence of a dedicated area for the school will likely result in conflicts with the use of other designated outdoor use areas.

3. Will not be directly or indirectly hazardous or disturbing to existing or future uses, ecosystems, waterways, wetlands, etc.

<u>CWA Comment:</u> The school is proposed to be on the upper level of the wellness building, and it will share a lobby with fitness facilities. The letter from the applicant dated October 12, 2023, indicates that the students will have access to private entrances with doors that require scan cards for entry. However, these separate entrances are not indicated on the site plan, and the stairwell indicated for entry to the school requires first entering the general main entrance to the wellness building and passing by the urgent care entrance. This proposed use does not seem to blend in with the general character of the wellness building. The co-presence of school and medical facilities poses safety and privacy issues to users of both facilities.

4. Will be an improvement in relation to property in the immediate vicinity and to the Township as a whole.

<u>CWA Comment:</u> The inclusion of the proposed school in this wellness center does not appear to be an improvement to the property or the broader Legacy Center area. It may instead pose a negative impact on the other uses planned for this PUD in the original PUD agreement, as patrons of these uses would now be required to contend with students and the subsequent parking and traffic generation, a use not typically located in the same building as busy business uses.

5. Will be served adequately by essential public services and facilities or that persons responsible for the establishment of the proposed use will provide adequately for such service or facility.

<u>CWA Comment:</u> A school and the associated cafeteria will put additional burdens on the site utilities. The number of fitness club members utilizing the full wellness center facilities is stated as 250 at any one time: a reduction from the 400 previously stated. On the October 12, 2023, letter, the applicant conversely indicated that the total number of fitness club members on-site in a 24-hour period would be 250. Details of how this reduced number of fitness club members on-site at one time will be maintained are not offered. Notably, the school use is expected to include 225 students and 49 staff, indicating that the school use on roughly half of the upper level will hold more users than that of the entire remaining wellness center. We defer to the Township Engineer to evaluate whether the existing sewage disposal system is designed to accommodate this number of students and fitness club members.

6. Will not create excessive additional public costs and will not be detrimental to the economic welfare of the Township; and

<u>CWA Comment:</u> The applicant indicated in the October 12, 2023, letter that the student body is predicted to primarily consist of Livingston County residents, but no details are offered on how student residency data is collected or if and how residency quotas are maintained. The updated traffic study offered by the applicant indicated that the wellness center with the proposed deviations from the approved PUD site plan will result in an increase in AM peak hour traffic generation when compared to the results of the 2018 traffic study.

7. Will be consistent with the intent and purposes of the Zoning Ordinance.

<u>CWA Comment:</u> The school use is not consistent with the uses established for this area by the Zoning Ordinance nor the PUD Agreement. The PUD was approved to host various indoor and outdoor recreation facilities. The inclusion of a school alters the character of the facility, which was intended to offer services to all demographics with staggered, all-day programming, and a diversity of activities within the health and fitness use category. An on-site school would concentrate use during school hours, posing additional challenges to patrons of the wellness center and medical facilities who enter or exit the facility alongside the students.

Items to be Addressed: The Planning Commission must review the proposed special approval use in terms of the recommended findings in the Zoning Ordinance and PUD Agreement.

AREA, WIDTH, HEIGHT, SETBACKS

The site plan proposes the construction of six (6) pickleball courts, one (1) full-sized tennis court, and one (1) twenty-five-foot by fifty-foot ($25' \times 50'$) pavilion that is ten and a half (10.5') feet tall.

The proposed wellness center will be an addition to the existing basketball building and fieldhouse. The northern wall of the wellness center will be shared with the fieldhouse and the eastern wall will be shared with the basketball building. The south and west walls will follow the same building lines as these two existing adjoining buildings. The below dimensional requirements apply to the wellness center.

The following dimensional requirements apply to mixed-use buildings and non-residential uses within the VMU-2 zoning district. In this case, these dimensional requirements will apply to the wellness center building and the pavilion.

Table 1. Dimensional Standards

Area	Required	Provided	Compliance
Front yard setback	20 feet	299.49 feet	Complies
Rear yard setback	40 feet	416.36 feet	Complies
Maximum Building Height	3 stories (36 ft)	36 feet	Complies

Items to be addressed: None.

SITE ACCESS and CIRCULATION

Access to the subject site will be provided by existing access drives. Goble Drive, a private internal drive, provides access to all the parking lots and facilities within the Legacy Center PUD area. Goble Drive also provides access to public roads with access points on both Winans Lake Road and Rickett Road. There is a sidewalk that borders Goble Drive throughout most of the development, and now provides a pedestrian connection to Rickett Road. Crosswalks are indicated on locations where a sidewalk meets a road or drive. The parking lot extension will

include the construction of an access drive for the east parking lot. The plan also proposes the addition of an eight (8') foot-wide pedestrian sidewalk along a segment of Goble Drive, connecting Winans Lake Road to the proposed Wellness Center. An additional eight (8') foot wide sidewalk is shown to connect Winans Lake Road to the wellness center, with this sidewalk running alongside Goble Drive, south of the east parking lot. The site plan further depicts a short 56.20-foot long and eight (8') foot wide sidewalk segment to connect the existing sidewalk that fronts the existing field house and proposed wellness center with the east parking lot. A fourth sidewalk segment (seven feet wide) is proposed alongside the pull-off area to the west of the east parking lot, next to the existing field house and the wellness center. A fifth sidewalk segment (six feet wide) is depicted to connect the northwest corner of the east parking lot to Goble Drive. A sixth sidewalk segment (eight feet wide) is proposed to connect the parking area that lies north of the existing field house to the pickleball courts. Per our previous site plan review recommendation, the applicant added a raised pedestrian crosswalk along Goble Drive to connect the northwest end of the parking lot to the building facilities.

It appears that the parking lot will include two-way traffic that is accommodated by twenty-four (24') foot-wide drive aisles. A circulation map was provided by the applicant on sheet C5, indicating how emergency vehicle access will be provided either from the south of Winans Lake Road or north from Goble Drive from the Access drive off Whitmore Lake Road south of the Township fire department.

As noted above, there are no new site access points proposed. However, the introduction of new uses to the site that were not previously proposed, specifically the school use, will introduce a different type and intensity of traffic and congestion to a site that already experiences significant congestion. The updated traffic study offers several conclusions, predicting an increase in AM peak hours traffic and a decrease in PM hours traffic compared to the predicted traffic volume offered in the 2018 traffic study.

Items to be Addressed: None.

LIGHTING

The January 17, 2024 site plan includes a lighting plan and a photometric map on A-002 as well as the previous photometric map and lighting plan of the parking lot extension on Sheet C16. These two sheets offer conflicting information that the applicant should address by providing a single, updated lighting plan.

Sheet C16 indicates that four (4) wall-mounted lights will be placed on the east side of the wellness center, but Sheet A-002 shows an additional six (6) wall-mounted lights on the south side of the wellness center. Sheet A-002 indicates that the lights will be mounted at twelve (12) feet. Details on how these lights will be shielded are not offered.

Sheet A-002 indicates that seventeen (17) pole-mounted lights are proposed throughout the parking lot extension. Sheet C16 shows only eleven (11) pole-mounted parking lot lights of two (2) different varieties.

Legacy Center – Wellness Building February 2, 2024

Both photometric plan sheets indicate that the pole-mounted lights are mounted at twenty-five (25') feet. Section 38-364(e)(1) indicates that the maximum height of pole light fixtures shall be twenty (20) feet. The applicant indicates that they are consistent with exiting poles at the site. However, It is not clear that this was an approved deviation from the ordinance in the approved PUD.

The two photometric plan sheets also provide differing illumination values throughout the parking lot extension which should be clarified with a single new photometric grid. Furthermore, the photometric map only indicates the illumination for the parking lot extension and areas to the south and east of the proposed wellness center. Section 38-364 of the zoning ordinance requires the inclusion of a photometric grid overlaid on the proposed site plan, indicating the light intensity throughout the site.

The applicant indicated in their January 19, 2024, response letter that no new lighting is proposed for the pickleball and tennis court area.

Items to be addressed: (1) Applicant shall correct inconsistencies between two photometric plan sheets by including a single, updated photometric plan and grid. (2) Applicant shall reduce the height of the pole-mounted light fixtures to comply with Section 38-364. (3) Applicant shall include a photometric grid of the entire site plan area, as set forth in Section 38-364.

PARKING AND LOADING

The proposed parking area would be an extension of the existing east parking lot. The site plan also includes the construction of a ten-foot by twenty-foot $(10' \times 20')$ dumpster enclosure on the northwestern corner of the existing east parking lot. A pull-off area with an adjacent sidewalk is also proposed to the west of the existing east parking lot.

The parking calculations for this project must be assessed along with all other uses and parking needs that are within the Legacy Center project. The approved PUD Site Plan requires parking calculations to be determined by use, using the requirements of the Zoning Ordinance. To assess the adequacy of the parking for the Legacy Center site plan, the applicant should provide parking calculations that include all uses and parking within the approved Legacy Center PUD area. In the current absence of these total parking calculations, we offer the following discussion regarding the Phase 1F uses and designated parking areas.

Per our previous recommendation, the updated site plan calculates the required parking for the wellness center using the "Personal service establishment" use, which requires one space per three hundred (300) square feet of usable floor area plus one (1) space per each (2) employees, as referenced in Section 38-312. This new parking calculation is provided in Table 2.

Forty-seven (47) stacking spaces are provided. Sheet C13 includes a narrative description of the stacking spaces' functionality. However, the new traffic impact study did not determine the feasibility of the stacking spaces, so the stacking spaces are not to be included in the parking calculation.

Furthermore, in offering parking calculations for the pickleball and tennis court area, Sheet C13 references calculations recommended by the applicant. The Zoning Ordinance does not include calculations for tennis courts or similar uses, and we generally agree with the calculation offered by the applicant. However, the calculation used on Sheet C13 assumes six (6) total courts, excluding the one (1) proposed tennis court. As such, the calculations provided in Table 2 below calculate parking for seven (7) courts: six (6) pickleball and one (1) tennis court.

Table 2. Parking Calculations

Required	Provided	Compliance
School: 1 space / teacher + 1 space / 10 students + 1 space /	214 spaces +	Does not
employee	193	comply
= 15 teachers + (280 students / 10) + 6 employees = 49 spaces	carryover	
Medical office: 1 space / 150 square feet of usable floor space	spaces	
(i.e. 80% of gross floor space)	constructed in Phase 1D	
= (19,431 square feet x 80%) / 150 = 103.6 = 104 spaces	III Pilase 1D	
Wellness Center: 1 space / 300 square feet of usable floor area	= 407	
+ 1 per 2 employees	parking	
= (55,602 interior + 20,170 court area) / 300 UFA = 252.6	spaces	
+ ½ x 8 employees = 4 = 257 spaces		
Court area: 8 people per court x 7 courts = 56 people		
56 / 2 = 28 spaces		
Total = 438 spaces		

Items to be addressed: Applicant shall provide parking calculations that indicate all uses and parking areas within the Legacy Center PUD.

LANDSCAPING

Sheet C10 includes an updated overall landscape plan. The plan indicates that five (5) honey locust, six (6) pin oak, and six (6) red maple trees will be planted in the parking lot area, near the wellness center, and near the proposed pickleball and tennis courts. The following landscape requirements apply to the subject site. As noted in Table 3, there are general site landscaping deficiencies.

Table 3. Landscape Calculations

Required	Provided	Compliance
1 tree per every 3,000 square feet of project area	2 trees	Does not comply
1 tree per every 300 square feet of parking lot area	14 trees	Does not comply

4,280 square feet / 300 = 14.27 trees = 15 trees		
20 square feet of interior landscaping per parking space	5,206 square feet of	Complies
214 spaces x 20 square feet = 4,280 square feet	internal landscaping	

Items to be addressed: Applicant shall adjust parking lot landscaping to comply with Section 38-177.

GRADING AND STORMWATER

Grading and drainage plans have been provided on sheets C6, C6A, C6B, and C6C and an overall stormwater management plan is provided on sheet C12 of the submittal. We defer to the Township Engineer to review this information.

Items to be Addressed: We defer to the Township Engineer to review grading, drainage, and stormwater plans.

FLOOR PLANS AND ELEVATIONS

Elevations of the proposed pavilion by the pickleball courts have been provided on sheet A-005. The pavilion includes eight (8) tube steel columns and overhead fabric sunshades mounted at ten-and-a-half (10'6") high. The building elevations for the proposed wellness center deviate from the elevations approved in the PUD agreement. Although inconsistent with the PUD agreement, the elevations do not appear to conflict with general design standards.

Items to be addressed: The Planning Commission shall consider proposed elevations that deviate from the PUD agreement.

RECOMMENDATIONS

In general, the site plan is consistent with the concept and layout of the approved PUD agreement. However, we recommend the following items be addressed before action is taken on the proposed site plan:

- 1. The Planning Commission should discuss deviations from the PUD Agreement.
- 2. The proposed school use must be considered by applying the process and criteria in Section 38-44 of the Zoning Ordinance.
- 3. The Planning Commission must review the proposed special approval use in terms of the recommended findings in the Zoning Ordinance and PUD Agreement.
- 4. Applicant shall correct inconsistencies between two photometric plan sheets by including a single, updated photometric plan and grid.

- 5. Applicant shall reduce the height of the pole-mounted light fixtures to comply with Section 38-364.
- 6. Applicant shall include a photometric grid of the entire site plan area, as set forth in Section 38-364.
- 7. Applicant shall provide parking calculations that indicate all uses and parking areas within the Legacy Center PUD area.
- 8. Applicant shall adjust parking lot landscaping to comply with Section 38-177.
- 9. We defer to the Township Engineer to review grading, drainage, and stormwater plans.
- 10. The Planning Commission shall consider proposed elevations that deviate from the PUD agreement.

CARLISLE/WORTMAN ASSOC.,INC

Paul Montagno, AICP

Principal

CARLISLE/WORTMAN ASSOC., INC.

Michelle Marin Community Planner

cc. Mark St. Charles, Township Supervisor
Debra McKenzie, Planning & Zoning Administrator
Carol Rosati, Township Attorney
Leslie Zawada, Township Engineer
Rick Miner, Township Engineer
Kevin Gentry, Township Fire Chief

Rodney Goble, Applicant, (goble24@gmail.com)

Jon Stevens, Applicants Engineer, (jstevens@mcfategroup.com)



Dykema Gossett PLLC

39577 Woodward Avenue Suite 300 Bloomfield Hills, MI 48304

Tel: (248) 203-0700 Fax: (248) 203-0763

WWW.DYKEMA.COM

Alan M. Greene

Direct Dial: (248) 203-0757 Direct Fax: (855) 236-1206 Email: AGreene@dykema.com

January 19, 2024

Via Hand Delivery

Debra McKenzie, Planning and Zoning Administrator Green Oak Township 10001 Silver Lake Road Brighton, MI 48116

Re: Legacy Center Wellness Building—Preliminary Site Plan and Special Land Use Request

Dear Ms. McKenzie:

This letter includes the collective responses of the development team to the Second Review letter submitted by Carlisle/Wortman dated December 22, 2023 (the "Review Letter"). With respect to the 10 items to be addressed identified at the end of the letter (letter is not paginated), we note as follows:

- 1. Acknowledged. No response required.
- We acknowledge the process and criteria to be applied. No response required.
- 3. We acknowledge the statement made regarding review of the special land use for the school, but we are not clear about the reference to "recommended findings" in the Zoning Ordinance and PUD Agreement and how that differs or should differ from the application of the criteria in Section 38-44 of the Zoning Ordinance. But otherwise, no response is required.
- 4. The photometric plan for the wellness center has been added to the plan set as Sheet A-002. The pickleball courts have no proposed lighting.
- 5. The proposed pole heights are consistent with the other existing poles throughout the site that were previously approved for other phases. This is included in a box note in the upper right corner on the [Parking Lot] Photometric Plan, Sheet C16.
- 6. The photometric plan for the wellness center has been added to the plan set as Sheet 16A. It includes information for the shielding of the lights on the exterior of the wellness center.
- 7. Parking calculations have been revised and are provided on Sheet C13. While we do not necessarily agree with the parking analysis in the Review Letter, the parking calculations have been revised to now consider the fitness center a "personal service establishment" and parking spaces are calculated accordingly. The owner has provided the number of employees for the fitness center to complete the parking calculations. The pickleball court

Dykema

Debra McKenzie, Planning and Zoning Administrator Green Oak Township January 19, 2024 Page 2

parking calculations have been separated from those of the fitness center and are based on the recommendations of the owner. Those calculations are also provided on Sheet C13.

- 8. Adjusted 'General Site' Landscaping per Section 38-177: Seven (7) trees have been added to the fenced in area around the pickle-ball court in recognition that this is considered by ordinance as an 'area of the site not already containing specific landscape requirements.' The tree species allocation in the plant list has also been adjusted.
- 9. Acknowledged. No response required.
- 10. Acknowledged. No response required.

The revised plan site plan is enclosed herewith for confirmation of the changes. We note that the Review Letter also contains the subjective views of the Township's Planning Consultant regarding the application of the special land use criteria for the school tenancy in a portion of the building. We disagree with those subjective views and believe they are not supported by any objective facts and will be prepared to address those matters at the public hearing on the special land use.

As previously explained, the School is currently operating out of a church property in Genoa Township and will continue to operate there. The School is just splitting up grades because it has reached its capacity at its current location. The School asked Genoa Township if it would provide any comments or observations regarding the current school operations and the Township Manager replied: "Genoa Township is pleased to report that we have received no complaints in regard to the operations of Livingston Christian School at Brighton Church of the Nazarene. In addition, to my knowledge, the School has been attentive to zoning and maintaining compliance with their special land use approval." Email is also attached hereto.

Please let us know when we would be placed on the Planning Commission agenda for a public hearing and consideration. We would like to move the project forward. Thank you.

Sincerely,

Dykema Gossett PLLC

Alan M. Greene

Enclosure

----- Original message ------

From: Kelly VanMarter < < Kelly@genoa.org >

Date: 1/9/24 2:33 PM (GMT-05:00)

To: rwiegand < rwiegand@livingstonchristianschools.org >

Subject: RE: Livingston Christian Schools

Happy to help Rob! Genoa Township is pleased to report that we have received no complaints in regard to the operations of Livingston Christian School at Brighton Church of the Nazarene. In addition, to my knowledge, the School has been attentive to zoning and maintaining compliance with their special land use approval.

Hope this helps!

Kelly VanMarter, AICP

Township Manager

Genoa Charter Township

2911 Dorr Road, Brighton, Michigan 48116

Direct: (810) 588-6900, Phone: (810) 227-5225, Fax: (810) 227-3420

E-mail: kelly@genoa.org, Url: www.genoa.org

From: rwiegand < rwiegand@livingstonchristianschools.org >

Sent: Monday, January 8, 2024 3:52 PM **To:** Kelly VanMarter < Kelly@genoa.org > **Subject:** Livingston Christian Schools

Happy New Year Kelly,

I hope this email finds you and your family well. I have a bit of a favor to ask. LCS is currently working with Brent LaVanway and Allen Greene, and we are in the process of acquiring a Special Use permit through Green Oaks Township to lease some space at the Legacy Center. Allen had a meeting with Green Oaks Township before the Holidays and they asked him about LCS's relationship with Genoa Township and if there had been any public complaints about the school (traffic, noise, etc) after we moved into the NAZ. I told Allen that as far as I knew, there were no complaints and I felt our relationship with Genoa Township was solid. Allen thought it would be a good idea if we were able to get a sentence or two from Genoa stating as much for our next meeting with Green Oaks Township.

So this is where I need the favor. If you haven't had any complaints and feel LCS's relationship with the Township is good, would be able to respond to this email with a sentence or two? Thank you.

In Christ's Service,
Rob Wiegand
Livingston Christian Schools

Sent from my Galaxy



3121 E. Grand River Howell, MI 48843 517.546.4836 fax 517.548.1670 www.bosseng.com

January 23, 2023

Ms. Debra Mckenzie Planning and Zoning Administrator 10001 Silver Lake Road Brighton, MI 48116

Re: 2nd Resubmittal of Legacy Center Phase 1F – Medical Wellness Center project for review and approval

Dear Ms. McKenzie,

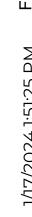
Boss engineering, on behalf of Legacy Center LLC., is submitting for review and approval the Site Plan set for the Legacy Center Phase 1F project, located at the Legacy Center Sports Complex in Brighton, MI. This submittal is intended to address the comments provided in the reviews completed by CES on October 30, 2023 and Carlisle Wortman on December 22, 2023. Included with this submittal are six copies of the Site Plan rev.2 set with accompanying architectural plans, response letters to the CES and Carlisle Wortman reviews, and a USB flash drive containing the electronic versions of all the above-mentioned files.

We appreciate your time and please reach out to Boss Engineering with any questions.

Sincerely,

BOSS ENGINEERING COMPANY

Mark DeFriez, P.E. Project Engineer







Legacy Center - Wellness

9299 Goble Drive Brighton, MI 48116

Released For: Site Plan - Rev 2

Release Date: 01/17/2024 Project Number: 22-001

Project Team

Contractor:

Legacy Center Contact: Rodney Goble

9299 Goble Drive, Brighton, MI 48116

(810) 231-9288 - goble24@gmail.com

Design Builder: The McFate Group

Contact: Jon M. Stevens, AIA Contact: Robert McFate

7136 Jackson Rd. Ann Arbor, MI 48103 (734) 433-0020

Civil Engineer: Boss Engineering

Contact: Trevor Ehredt 3121 E. Grand River Ave, Howell, MI 48843 (517) 546-4836

IMEG Engineers Structural **Engineer:**

Contact: Dawn Taylor Contact: Lisa Butzlaff

33533 Twelve Mile Road, Ste 200 Farmington Hills, MI 48331 (248) 344-2800

Mechanical Plumbing

Sellinger Associates Contact: Naum Popovski **Fire Protection:** 19821 Farmington Road,

Livonia, MI 48152 (248) 482 0045

ETS Engineering, Inc. **Electrical Engineer:** Contact: Scott Leo

418 1/2 S Washington Ave, Royal Oak, MI 48067

(248) 744-0360

G2 Consulting. **Geo Technical Engineer:**

1350 Eisenhower Place Ann Arbor, MI 48108 Attn: Mark Stapleton (734) 390-9330

Baruzzini Aquatics **Consultant:** 1281 Old US Highway 23

Brighton, MI 48114 Attn: Nick Palizzi (810) 229-8996

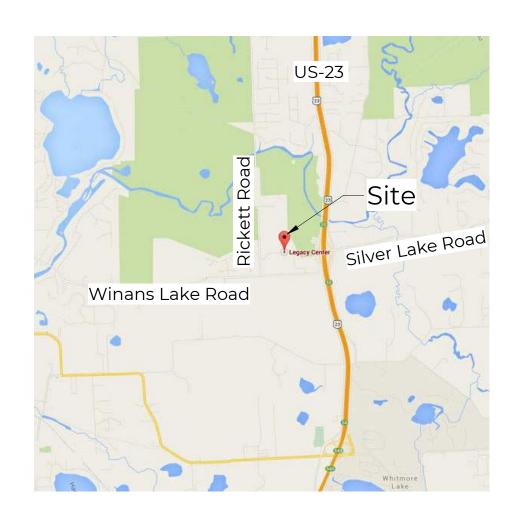
Project Description

This project consists of a Wellness Center addition at the Legacy Park Complex in Brighton, Michigan. It will include multiple tenant spaces with in the complex. The Club at Legacy will be an upscale fitness club including strength training, spinning, yoga, cardio areas as well as pool area with hot and cold plunge tubs.

There will be an extension of Legacy Center on the Field level, Sports performance will allow training and sports rehabilitation. Trampoline and Gymnastics will be a permanent home for these exciting sports at the Legacy Center. There will also be a dance studio / multipurpose room.

Entry Level will feature 3-4 tenant spaces geared to attract a Physical Therapy business, Orthopedic and an Urgent Care Facility.

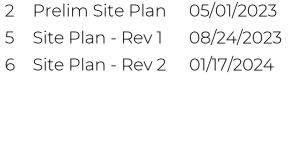
The Upper level will house more of the Club spaces as well as the Legacy Administration offices.



Vicinity Map



Key Plan



Revision Date

03/15/2023

Revision Schedule

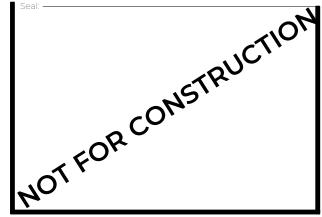
Owner Review

Description

The McFate Group

Legacy Center -Wellness

9299 Goble Drive Brighton, MI 48116



22-001

01/17/2024

Issued for: Site Plan - Rev 2

Title Sheet

Sheet Number	Sheet Name	Current Revision Description	Current Revision Date
General			
G-100	Title Sheet	Site Plan - Rev 2	01/17/2024
G-101	Drawing Index	Site Plan - Rev 2	01/17/2024
G-110	Perspectives	Site Plan - Rev 2	01/17/2024
G-111	Perspectives	Site Plan - Rev 2	01/17/2024
G-113	Tenant Breakdown	Site Plan - Rev 2	01/17/2024
LS-100	Code Analysis Plan & Schedules	Site Plan - Rev 2	01/17/2024
LS-101	Level 1 Life Safety Plan	Site Plan - Rev 2	01/17/2024
LS-102	Level 2 Life Safety Plan	Site Plan - Rev 2	01/17/2024
LS-103	Level 3 Life Safety Plan	Site Plan - Rev 2	01/17/2024
Civil			
C-1	Cover Sheet	Site Plan - Rev 2	01/17/2024
C-2	General Notes and Legend	Site Plan - Rev 2	01/17/2024
C-3	Existing Condition & Demolition Plans	Site Plan - Rev 2	01/17/2024
C-4	Overall Site Plan	Site Plan - Rev 2	01/17/2024
C-5	Site Plan	Site Plan - Rev 2	01/17/2024
C-6	Overall Grading and Drainage Plan	Site Plan - Rev 2	01/17/2024
C-6a	Parking Lot Grading and Drainage Plan	Site Plan - Rev 2	01/17/2024
C-6b	Pickleball Courts Grading and Drainage	Site Plan - Rev 2	01/17/2024
C-6c	Medical Center Grading and Drainage Plan	Site Plan - Rev 2	01/17/2024
C-7	Utility Plan	Site Plan - Rev 2	01/17/2024
C-8	Soil Erosion and Sedimentation Control Plan	Site Plan - Rev 2	01/17/2024
C-9	Site Landscape Plan	Site Plan - Rev 2	01/17/2024
C-10	Overall Landscape Plan	Site Plan - Rev 2	01/17/2024
C-11	Construction Details	Site Plan - Rev 2	01/17/2024
C-12	Stormwater Management	Site Plan - Rev 2	01/17/2024
C-13	Parking Calculation Plan	Site Plan - Rev 2	01/17/2024
C-14	Sanitary Sewer Profile	Site Plan - Rev 2	01/17/2024
C-15	Pickleball & Parking lot storm profile	Site Plan - Rev 2	01/17/2024
C-16	Photometric Plan	Site Plan - Rev 2	01/17/2024
Architectur A-001	Overall Site Plan	Site Plan - Rev 2	01/17/2024
A-002	Site Photometric	Site Plan - Rev 2	01/17/2024
A-005	Pickleball Covered Area	Site Plan - Rev 2	01/17/2024
A-101	Overall Level 1 (Field) Floor Plan	Site Plan - Rev 2	01/17/2024
A-102	Overall Level 2 (Entry) Floor Plan	Site Plan - Rev 2	01/17/2024
A-103	Overall Level 3 (Upper Level) Floor Plan	Site Plan - Rev 2	01/17/2024
A-110	Primary Level 1 Floor Plan	Site Plan - Rev 2	01/17/2024
A-120	Primary Level 2 Floor Plan	Site Plan - Rev 2	01/17/2024
A-130	Primary Level 3 Floor Plan	Site Plan - Rev 2	01/17/2024
A-150	Primary Roof Plan	Site Plan - Rev 2	01/17/2024
A-300	Exterior Elevations	Site Plan - Rev 2	01/17/2024
A-301	Exterior Material Palette	Site Plan - Rev 2	01/17/2024
A-302	Exterior Light Fixtures	Site Plan - Rev 2	01/17/2024
A-350	Building Section	Site Plan - Rev 2	01/17/2024
A-351	Building Section	Site Plan - Rev 2	01/17/2024
A-352	Building Section	Site Plan - Rev 2	01/17/2024
A-400	Field House Elevation	Site Plan - Rev 2	01/17/2024





Revision Schedule

Description

Revision Date

2 Prelim Site Plan 05/01/2023 5 Site Plan - Rev 1 08/24/2023

6 Site Plan - Rev 2 01/17/2024

Legacy Center -Wellness

9299 Goble Drive Brighton, MI 48116

22-001

01/17/2024

Issued for: Site Plan - Rev 2

Drawing Index













Revision Schedule

Revision Date 2 Prelim Site Plan 05/01/2023

5 Site Plan - Rev 1 08/24/2023

6 Site Plan - Rev 2 01/17/2024

Legacy Center -Wellness

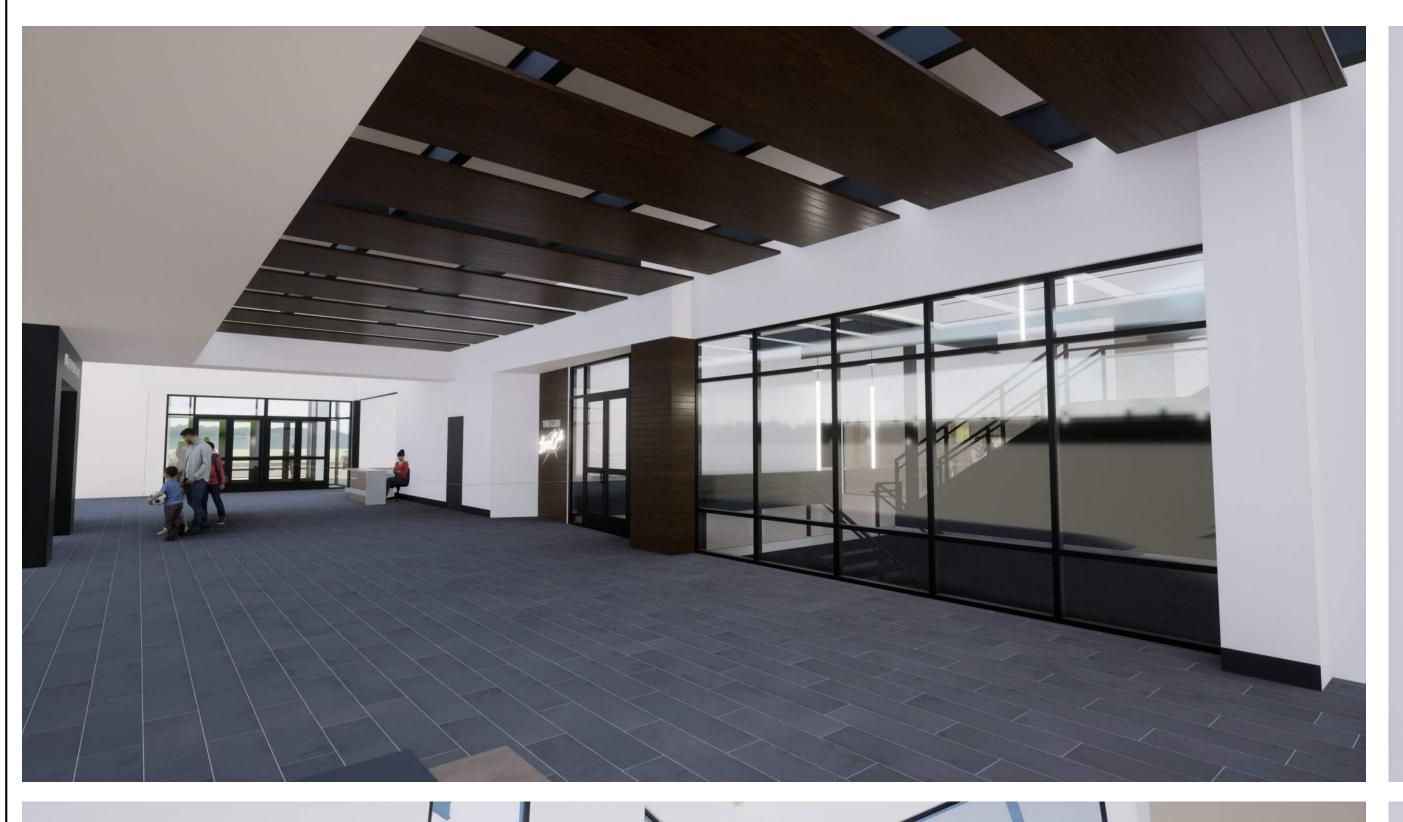
9299 Goble Drive Brighton, MI 48116

22-001

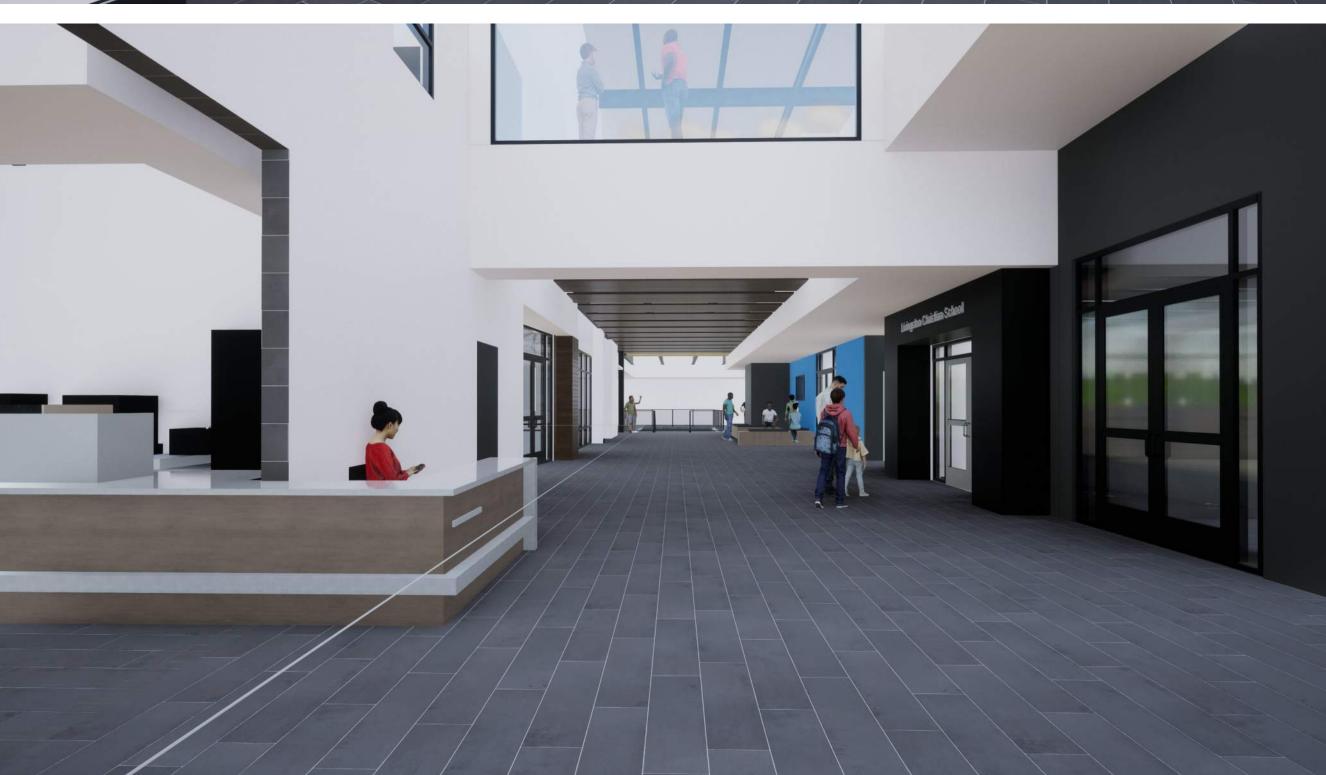
01/17/2024

Issued for: Site Plan - Rev 2

Perspectives











Revision Schedule

Description

Revision Date 2 Prelim Site Plan 05/01/2023 5 Site Plan - Rev 1 08/24/2023

6 Site Plan - Rev 2 01/17/2024

Legacy Center -Wellness

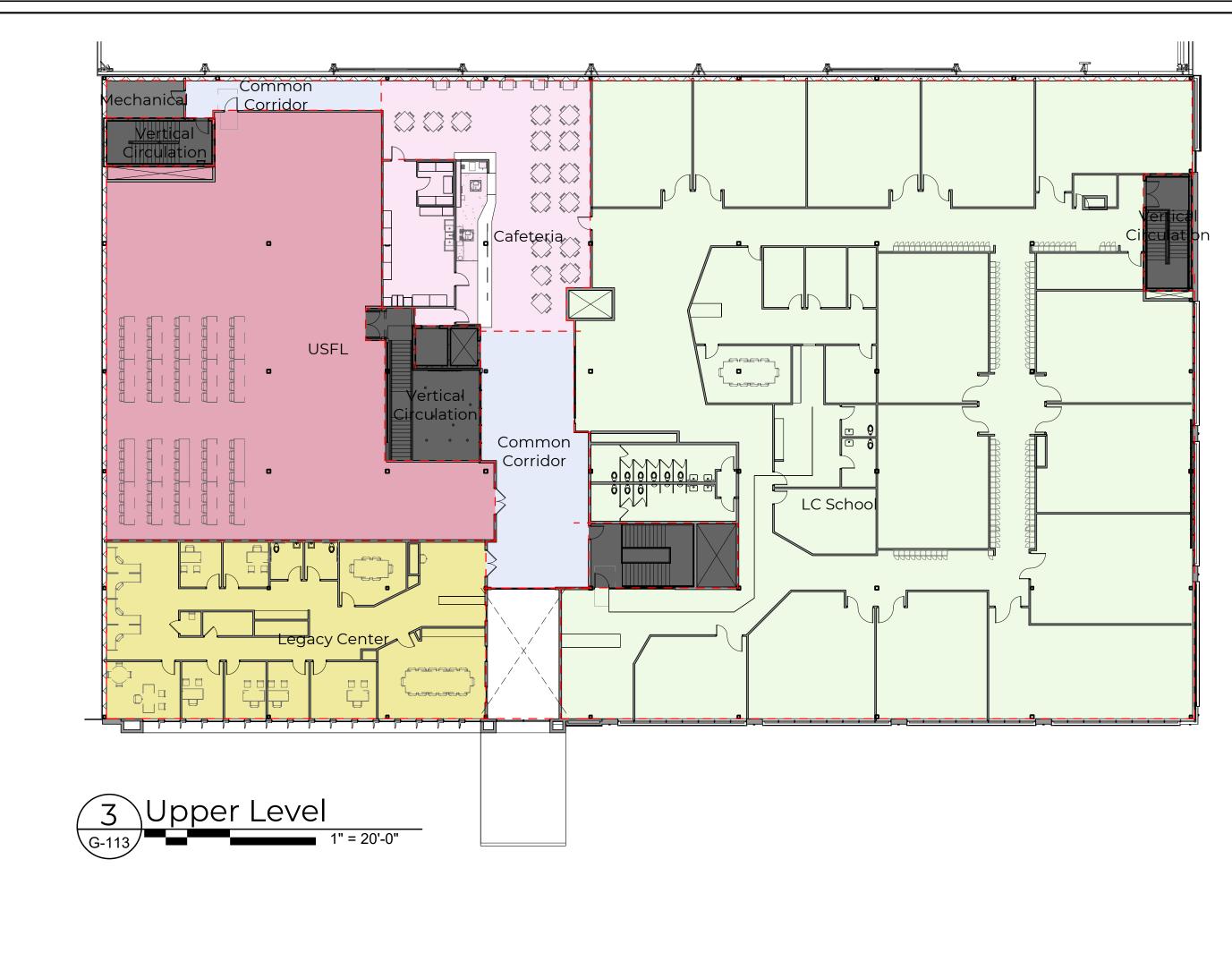
9299 Goble Drive Brighton, MI 48116

22-001

01/17/2024

Issued for: Site Plan - Rev 2

Perspectives



Rentable Area Legend		
	Cafeteria	
	Common Corridor	
	LC School	
	Legacy Center	
	Legacy Center - Cafe	
	Legacy Center - Retail	
	Mechanical	
	Orthopedics	
	Physical Therapy	
	Pinnacle	
	Restroom	
	The Club	
	The Club - Kids	
	Urgent Care	
	USFL	
	ı	

Vertical Circulation

Wellness Center Ar	
Name	Usuable Area (SF)
Field Level	
Common Corridor	1171
Legacy Center	15919
Legacy Center -Training	374
Mechanical	931
The Club	15926
USFL	2109
Vertical Circulation	862
Field Level	37293
Entry Level	
Common Corridor	4428
LC School	381
Legacy Center - Cafe	1397
Legacy Center - Retail	187
Mechanical	616
Orthopedics	4192
Physical Therapy	4211
Pinnacle	5042
Restroom	655
The Club	5216
The Club - Kids	712
Urgent Care	5846
Vertical Circulation	1787
Entry Level	34669
Upper Level	
Cafeteria	2721
Common Corridor	1686
LC School	20418
Legacy Center	3666
Mechanical	160
USFL	6584
Vertical Circulation	1880
Upper Level	37117
Grand total	109079

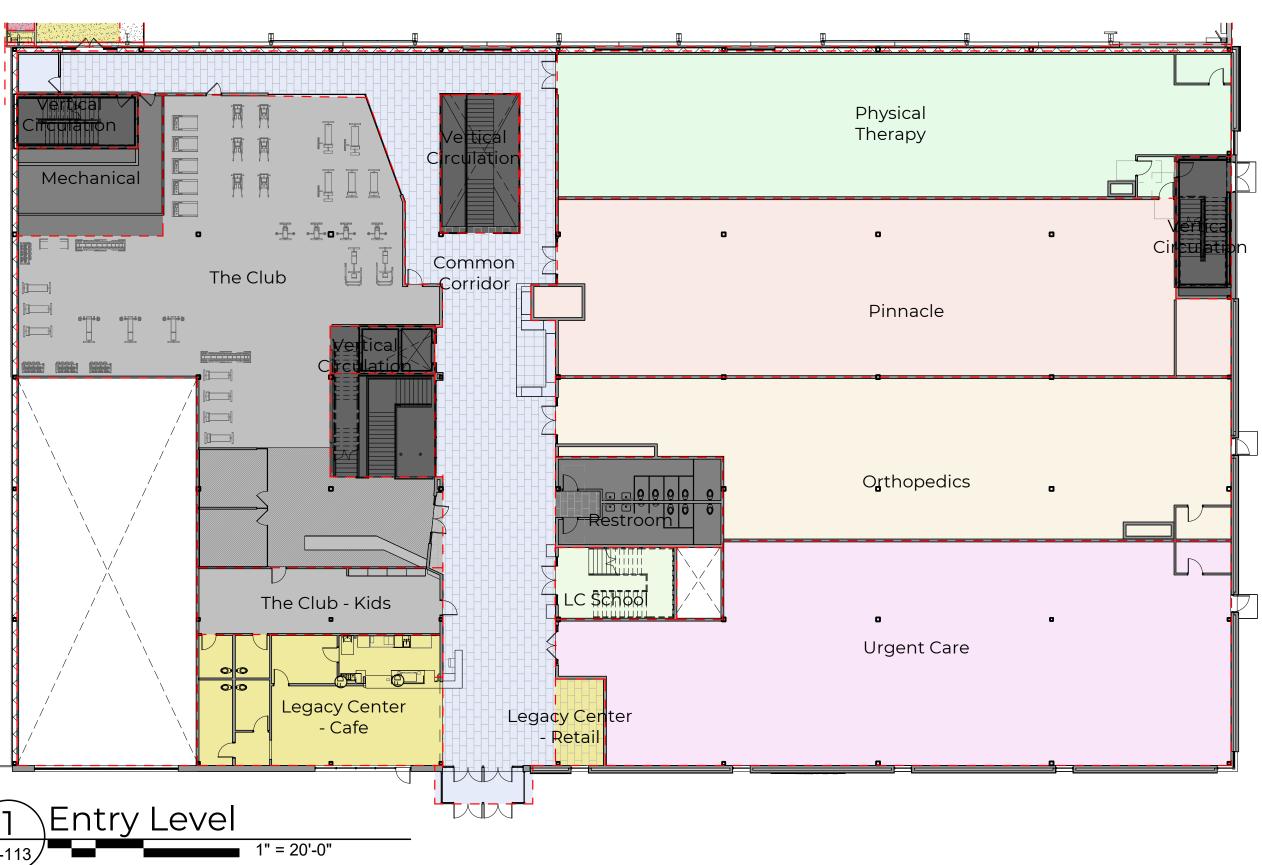


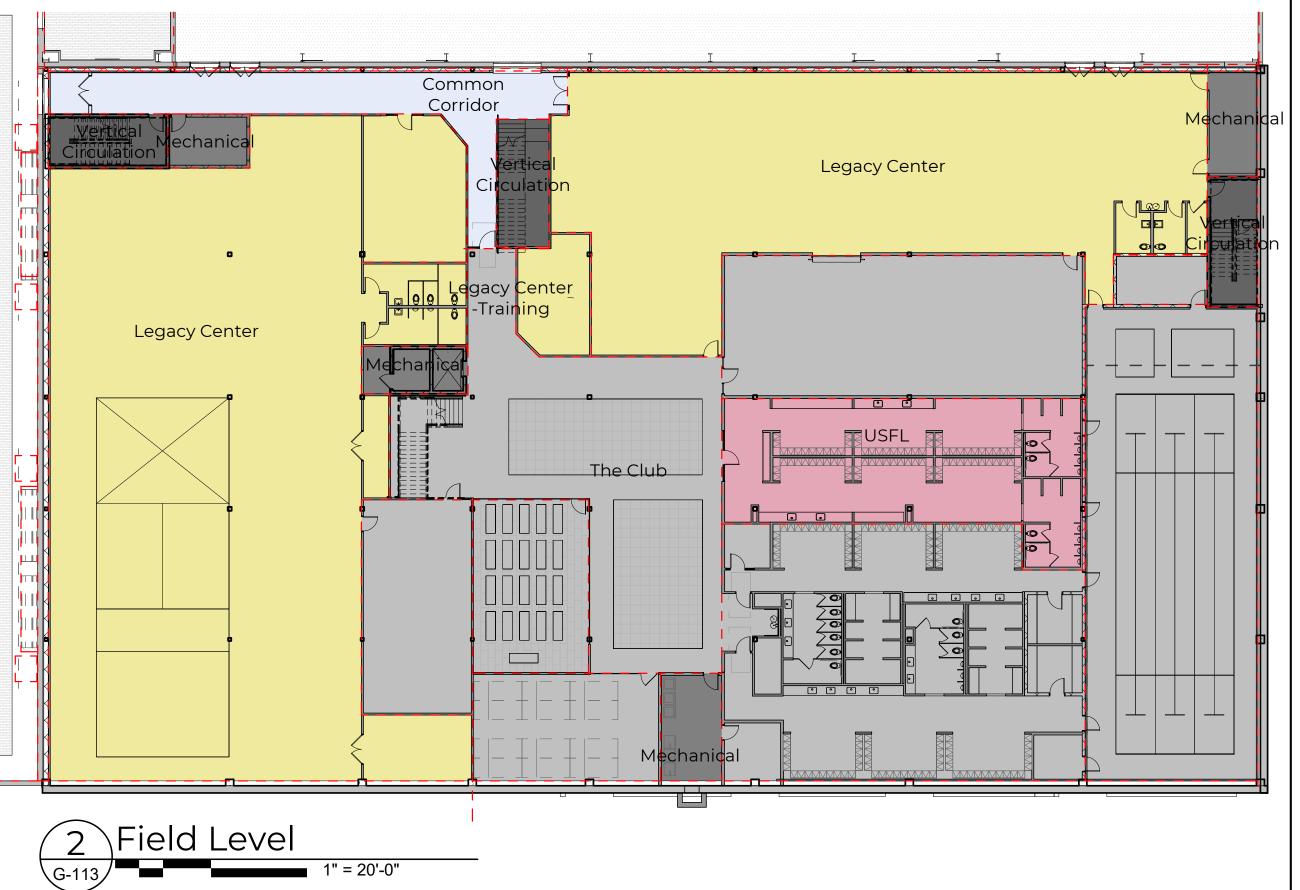


Revision Schedule

ŧ	Description	Revision Date
+	Owner Review	06/19/2023
5	Site Plan - Rev 1	08/24/2023

6 Site Plan - Rev 2 01/17/2024







9299 Goble Drive Brighton, MI 48116

NOTFORCONSTRUCTION

22-001

01/17/2024

Issued for: Site Plan - Rev 2

heet Title: —

Tenant Breakdown

G-113

Plot Date/Time:

Grand total

BOX -			· · · · · · · · · · · · · · · · · · ·		able 1004.1.	• /		
PROJ - Schedule	Level	Use	Area	% of Total	Floor Area per Occupant	Net or Gross	Design Occupant Load	Comments
2. 3.13								
Field Leve		1		T				
Yes	Field Level	Business	2842 SF	3%	100	Gross	29	
Yes	Field Level	Common Corridor	1144 SF	1%				
Yes	Field Level	Exercise Room	5995 SF	6%	50	Gross	120	
Yes	Field Level	Exercise Room	9045 SF	9%	50	Gross	181	
Yes	Field Level	Exercise Room	869 SF	1%	50	Gross	18	
Yes	Field Level	Exercise Room	878 SF	1%	50	Gross	18	
Yes	Field Level	Exercise Room	1038 SF	1%	50	Gross	21	
Yes	Field Level	Exercise Room	2249 SF	2%	50	Gross	45	
Yes	Field Level	Locker Room	5877 SF	6%	50	Gross	118	
Yes	Field Level	Mechanical	159 SF	0%	200	Gross	1	
Yes	Field Level	Mechanical	193 SF	0%	200	Gross	1	
Yes	Field Level	Mechanical	208 SF	0%	200	Gross	2	
Yes	Field Level	Pool	2180 SF	2%	50	Gross	44	
Yes	Field Level	Pool Deck	1388 SF	1%	15	Gross	93	
Yes	Field Level	Restroom	207 SF	0%		_		
Yes	Field Level	Restroom	389 SF	0%				
Yes	Field Level	Unconcentrated	667 SF	1%	15	Net	45	
Yes	Field Level	Vertical Circulation	289 SF	0%				
Yes	Field Level	Vertical Circulation	221 SF	0%				
Yes	Field Level	Vertical Circulation	360 SF	0%				
Yes	Field Level	Vertical Circulation	281 SF	0%				
Entry Leve	ıl			_				
Yes	Entry Level	Business	19138 SF	18%	100	Gross	192	
Yes	Entry Level	Business	705 SF	1%	100	Gross	8	
Yes	Entry Level	Business	1390 SF	1%	100	Gross	14	
Yes	Entry Level	Common Corridor	4652 SF	4%				
Yes	Entry Level	Exercise Room	5397 SF	5%	50	Gross	108	
Yes	Entry Level	Mechanical	403 SF	0%	200	Gross	3	
Yes	Entry Level	Vertical Circulation	486 SF	0%				
Yes	Entry Level	Vertical Circulation	288 SF	0%				
Yes	Entry Level	Vertical Circulation	315 SF	0%				
Yes	Entry Level	Vertical Circulation	157 SF	0%				
Yes	Entry Level	Vertical Circulation	457 SF	0%				
Yes	Entry Level	Vertical Circulation	376 SF	0%				
Yes	Entry Level	Vertical Circulation	144 SF	0%				
Yes	Entry Level	Vertical Circulation	22 SF	0%				
	Lifely LCVEI	VOLCION CITOMIGNOTT	<u> </u>					
Upper Lev							1	
Yes	Upper Level	Business	6520 SF	6%	100	Gross	66	
Yes	Upper Level	Business	3677 SF	3%	100	Gross	37	
Yes	Upper Level	Common Corridor	2199 SF	2%				
Yes	Upper Level	Education	19589 SF	18%	50	Gross	392	
Yes	Upper Level	Kitchen	645 SF	1%	200	Gross	4	
Yes	Upper Level	Kitchen	629 SF	1%	200	Gross	4	
Yes	Upper Level	Mechanical	165 SF	0%	200	Gross	1	
Yes	Upper Level	Unconcentrated	609 SF	1%	15	Net	41	
Yes	Upper Level	Unconcentrated	332 SF	0%	15	Net	23	
Yes	Upper Level	Vertical Circulation	607 SF	1%				
Yes	Upper Level	Vertical Circulation	155 SF	0%				
165	<u> </u>	Vertical Circulation	528 SF	0%				
	Upper Level	Tortion on our artist		The second secon	1			
Yes	<u> </u>	Vertical Circulation	65 SF	0%				
Yes Yes Yes	Upper Level	Vertical Circulation						
Yes Yes	<u> </u>		65 SF 40 SF 10 SF	0% 0% 0%				

106248 SF

100%

1629

Applicable Codes and Life Safety Information

Building Code: Mechanical Code: Electrical Code: Plumbing Code: Energy Code: Use Group: 2015 Michigan Building Code 2015 Michigan Mechanical Code 2014 National Electrical Code (NEC) 2015 Michigan Plumbing Code 2015 Michigan Uniform Energy Code

A-3 Assembly
B Business
S Storage
E Education

Construction Type: Height, Building:

(504.3)

Area, Building:

A-3: Allowable: 75'-0" / 3 (36') Stories above grade Actual: 2 stories above grade - see elevations 32' to top of parapet, 36' to top of screen wall

Allowable: Unlimited (MBC 507.3)
Actual: Existing Basketball Arena: 76,380 SF
Existing Fieldhouse: 101,722 SF
Existing Baseball Center: 17,734 SF

New Wellness Center:114,333 SFBuilding Total:310,169 SF

Work Area: 114,333 SF

Fire Suppression: Fully suppressed, Per NFPA 13; 2013 Ed. and AHJ

Light Hazzard required, Ordinary hazzard (Group 2)

provided

Fire Alarm: Per Section 907.2.1.1 Fire alarm systems for assembly occupancies with an occupant load of 1,000 or more

must include an emergency voice/alarm

communication system.

Emergency Responder Per MBC Section 916 MI Rehab 1102.3 **Radio Coverage** As required by Fire Marshall

System:

Travel Distance: Fully Sprinklered = 250'-0"

Required Spearation of Occupancies - Fully Sprinklered (508.4)

Legacy Club to Office spaces:

A-3 Assembly -----> B Business 1 Hour Separation

Legacy Club to School

A-3 Assembly -----> E Education None

B Business -----> E Education 1 Hour Separation



DE OF MICHIGATION AFCHITECT

No.

1301067191

CONTROL OF MICHIGATION AFCHITECT

No.

1301067191

Revision Schedule

 # Description
 Revision Date

 1 Owner Review
 03/15/2023

 2 Prelim Site Plan
 05/01/2023

 5 Site Plan - Rev 1
 08/24/2023

 6 Site Plan - Rev 2
 01/17/2024

Legacy Center -Wellness

9299 Goble Drive Brighton, MI 48116

NOT FOR CONSTRUCTION

22-001

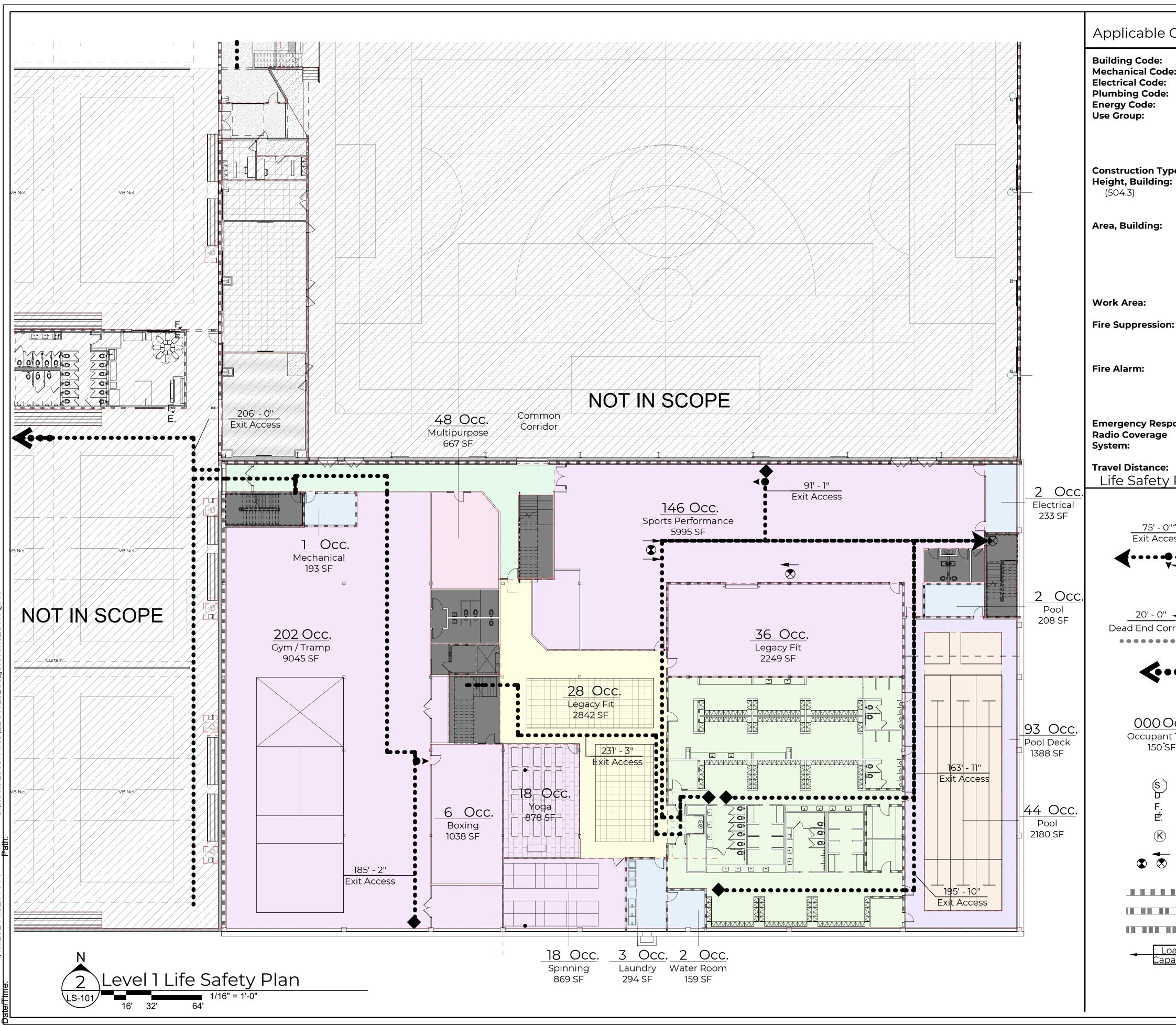
01/17/2024

Issued for: Site Plan - Rev 2

Sheet Title:

Code Analysis
Plan & Schedules

ring Number: -



Applicable Codes and Life Safety Information:

Building Code: Mechanical Code: Electrical Code: Plumbing Code: **Energy Code:**

2015 Michigan Building Code 2015 Michigan Mechanical Code 2014 National Electrical Code (NEC) 2015 Michigan Plumbing Code 2015 Michigan Uniform Energy Code

A-3 Assembly B Business S Storage Education

Construction Type:

A-3: Allowable: 75'-0" / 3 (36') Stories above grade Actual: 2 stories above grade - see elevations 32' to top of parapet, 36' to top of screen wall

Area, Building: Allowable: Unlimited (MBC 507.3)

Actual: Existing Basketball Arena: 76,380 SF 101,722 SF Existing Fieldhouse: Existing Baseball Center: 17,734 SF 114,333 SF New Wellness Center: Building Total: 310,169 SF

Work Area: 114,333 SF

Fire Suppression: Fully suppressed, Per NFPA 13; 2013 Ed. and AHJ

Light Hazzard required, Ordinary hazzard (Group 2)

provided

Per Section 907.2.1.1 Fire alarm systems for assembly Fire Alarm: occupancies with an occupant load of 1,000 or more

must include an emergency voice/alarm

communication system.

Radio Coverage

Emergency Responder Per MBC Section 916 MI Rehab 1102.3

end point (Per Table 1006.3.2(2))

As required by Fire Marshall

Fully Sprinklered = 250'-0" **Travel Distance:** Life Safety Plan & Fire Safety Legend

> Exit Access: Exit Access Travel Distance (Per 1017) Path of Exit Access Exit Access -Start of Path • • • • • • • • • • • • • • -Common path of egress travel

<u>Dead End Corridor</u> -Corridor length (Per 1020.4) 20' - 0" 🚤 Dead End Corridor Line of corridor measurement •••••••

> **<•••** Exit Discharge

<u>Area Tag:</u> Occupant Load for 000 Occ area indicated Occupant Type 150 SF --Area size (square feet)

> <u>Life Safety Devices / Equipment</u> Smoke Detector

Portable Fire Extinguisher (Class K / ABC)

(Coordinate with Electrical Drawings)

"Knox Box" Rapid Entry System

1-hour Fire Rated Assembly

2-hour Fire Rated Assembly

3-hour Fire Rated Assembly Egress Load and Capacity

The McFate Group www.mcfategroup.com I (734)-433-0020



Revision Schedule

Revision Date # Description 03/15/2023 Owner Review Prelim Site Plan 05/01/2023 5 Site Plan - Rev 1 08/24/2023 6 Site Plan - Rev 2 01/17/2024

Legacy Center -Wellness

9299 Goble Drive Brighton, MI 48116

22-001

01/17/2024

Issued for: Site Plan - Rev 2

Level 1 Life Safety Plan

Applicable Codes and Life Safety Information:

Building Code: Mechanical Code: Electrical Code: Plumbing Code: **Energy Code:**

2015 Michigan Building Code 2015 Michigan Mechanical Code 2014 National Electrical Code (NEC) 2015 Michigan Plumbing Code

2015 Michigan Uniform Energy Code A-3 Assembly Business

Storage Education

Construction Type: Height, Building:

A-3: Allowable: 75'-0" / 3 (36') Stories above grade Actual: 2 stories above grade - see elevations 32' to top of parapet, 36' to top of screen wall

Area, Building: Allowable: Unlimited (MBC 507.3)

Actual: Existing Basketball Arena: 76,380 SF 101,722 SF Existing Fieldhouse: Existing Baseball Center: 17,734 SF 114,333 SF **New Wellness Center:** 310,169 SF Building Total:

114,333 SF **Work Area:**

Fully suppressed, Per NFPA 13; 2013 Ed. and AHJ Fire Suppression: Light Hazzard required, Ordinary hazzard (Group 2)

provided

Fire Alarm: Per Section 907.2.1.1 Fire alarm systems for assembly occupancies with an occupant load of 1,000 or more

must include an emergency voice/alarm

communication system.

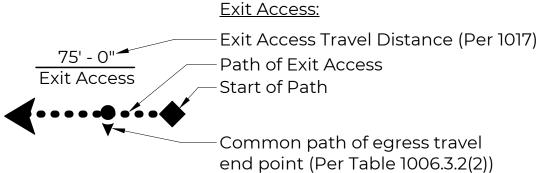
Radio Coverage

Emergency Responder Per MBC Section 916 MI Rehab 1102.3

As required by Fire Marshall

Fully Sprinklered = 250'-0" **Travel Distance:**

Life Safety Plan & Fire Safety Legend



Dead End Corridor -Corridor length (Per 1020.4) 20' - 0" 🚤 Dead End Corridor Line of corridor measurement

> **<•••** Exit Discharge

<u> Area Tag:</u> Occupant Load for 000 Occ area indicated Occupant Type 150°SF ▼ -Area size (square feet)

> <u>Life Safety Devices / Equipment</u> Smoke Detector

Portable Fire Extinguisher (Class K / ABC)

"Knox Box" Rapid Entry System Exit Signs

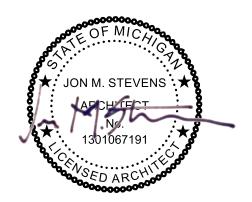
1-hour Fire Rated Assembly

2-hour Fire Rated Assembly 3-hour Fire Rated Assembly

Egress Load and Capacity

(Coordinate with Electrical Drawings)

The McFate Group www.mcfategroup.com I (734)-433-0020



Revision Schedule

Description **Revision Date** 03/15/2023 Owner Review 05/01/2023 Prelim Site Plan 5 Site Plan - Rev 1 08/24/2023 6 Site Plan - Rev 2 01/17/2024

Legacy Center -Wellness

9299 Goble Drive Brighton, MI 48116



22-001

01/17/2024

Issued for: Site Plan - Rev 2

Level 2 Life Safety Plan

16' 32'

Applicable Codes and Life Safety Information:

Building Code: Mechanical Code: Electrical Code: Plumbing Code: **Energy Code:**

(504.3)

2015 Michigan Building Code 2015 Michigan Mechanical Code 2014 National Electrical Code (NEC) 2015 Michigan Plumbing Code 2015 Michigan Uniform Energy Code

A-3 Assembly **Use Group:**

B Business Storage Education

Construction Type: Height, Building:

A-3: Allowable: 75'-0" / 3 (36') Stories above grade Actual: 2 stories above grade - see elevations

32' to top of parapet, 36' to top of screen wall

Area, Building: Allowable: Unlimited (MBC 507.3)

Actual: Existing Basketball Arena: 76,380 SF Existing Fieldhouse: 101,722 SF 17,734 SF Existing Baseball Center: New Wellness Center: 114,333 SF

Building Total: 310,169 SF

114,333 SF Work Area:

Fire Suppression: Fully suppressed, Per NFPA 13; 2013 Ed. and AHJ

Light Hazzard required, Ordinary hazzard (Group 2)

provided

Fire Alarm: Per Section 907.2.1.1 Fire alarm systems for assembly occupancies with an occupant load of 1,000 or more

must include an emergency voice/alarm

communication system.

Radio Coverage

Emergency Responder Per MBC Section 916 MI Rehab 1102.3

As required by Fire Marshall

System:

Fully Sprinklered = 250'-0" **Travel Distance:**

Life Safety Plan & Fire Safety Legend

Exit Access: -Exit Access Travel Distance (Per 1017) <u>75'</u> - 0" - Path of Exit Access Exit Access ∕—Start of Path -Common path of egress travel

end point (Per Table 1006.3.2(2))

<u>Dead End Corridor</u> -Corridor length (Per 1020.4) 20' - 0" 🚤 Dead End Corridor Line of corridor measurement ••••••••

> **<•••** Exit Discharge

<u>Area Tag:</u> -Occupant Load for 000 Occ area indicated Occupant Type 150 SF ▼ -Area size (square feet)

> <u>Life Safety Devices / Equipment</u> Smoke Detector

Portable Fire Extinguisher (Class K / ABC)

"Knox Box" Rapid Entry System

(Coordinate with Electrical Drawings)

1-hour Fire Rated Assembly

2-hour Fire Rated Assembly 3-hour Fire Rated Assembly

Egress Load and Capacity



★: JON M. STEVENS APCH/TECT Ng. 1301067191

Revision Schedule

Revision Date # Description

2 Prelim Site Plan 05/01/2023 5 Site Plan - Rev 1 08/24/2023 6 Site Plan - Rev 2 01/17/2024

Legacy Center -

9299 Goble Drive Brighton, MI 48116

Wellness

22-001

01/17/2024

Issued for: Site Plan - Rev 2

Level 3 Life Safety Plan

PROPERTY DESCRIPTION:

A PARCEL OF LAND LOCATED IN THE NORTHWEST $\frac{1}{4}$ OF SECTION 20, T01N, R06E, GREEN OAK TOWNSHIP, LIVINGSTON COUNTY N00°52'35"E 2304.84 FEET ALONG THE EAST RIGHT-OF-WAY LINE OF SAID RICKETT ROAD (VARIABLE WIDTH) TO THE POINT OF BEGINNING, CONTAINING 90,76 ACRES OF LAND, MORE OR LESS, SUBJECT TO EASEMENTS AND RESTRICTIONS OF RECORD, IF ANY,

PARCEL 2:

A PARCEL OF LAND LOCATED IN THE NORTHWEST $\frac{1}{4}$ OF SECTION 20, T01N, R06E, GREEN OAK TOWNSHIP, LIVINGSTON COUNT THE POINT OF BEGINNING, CONTAINING 9.40 ACRES OF LAND, MORE OR LESS. SUBJECT TO EASEMENTS AND RESTRICTIONS OF RECORD, IF ANY.

UTILITY QUANTITIES	
STORM SEWER	
12" ADS HP	578 LF
STRUCTURE (CATCH BASIN OR MANHOLE)	7
SANITARY SERVICE	
8" PVC SDR 26 SANITARY SEWER PIPE	603 LF
6" PVC SDR 23.5 SANITARY SEWER LEAD	24 LF
MANHOLE STRUCTURE	1

PAVING QUANTITIES	
2" MDOT 13A	9185 SY
2" MDOT 1100L	9185 SY
21AA LIMESTONE (8" UNDER ASPHALT)	9185 SY
CLASS II SAND (12" UNDER ASPHALT)	9185 SY
TYPE F CURB	1850 LF
21AA LIMESTONE (6" UNDER CURB)	1850 LF
4" CONCRETE SIDEWALK	511 SY
SESC QUANTITIES	
INLET PROTECTION FILTERS	7
SILT FENCE	2098 LF
MULCH BLANKET	1700 SY

DR.

AGGREGATE TRACKING MAT

279 SY

UTILITY CONTACTS

SANITARY GREASE TRAP

CABLE	ELECTRIC	GAS
AT&T/DIRECT TV	DTE ENERGY	CONSUMERS ENERG
1251 LAWSON DR.	1095 LAWSON DR.	1000 GRAND OAKS
HOWELL, MI 48843	HOWELL, MI 48843	HOWELL, MI 48843
517-997-1898	248-427-2200	800-477-5050

TELEPHONE SEWER AND WATER LIVINGSTON COUNTY WATER AUTHORITY 1251 LAWSON DR. 10405 MERRILL RD. P.O. BOX 157 HOWELL, MI 48843 HAMBURG, MI 48139

810-231-1333

PERMITS & APPROVALS DATE APPROVED TOWNSHIP SITE PLAN APPROVAL 5/1/23 PENDING TOWNSHIP SPECIAL USE PENDING 5/1/23 TOWNSHIP ENGINEERING • SESC NPDES SESC NOC

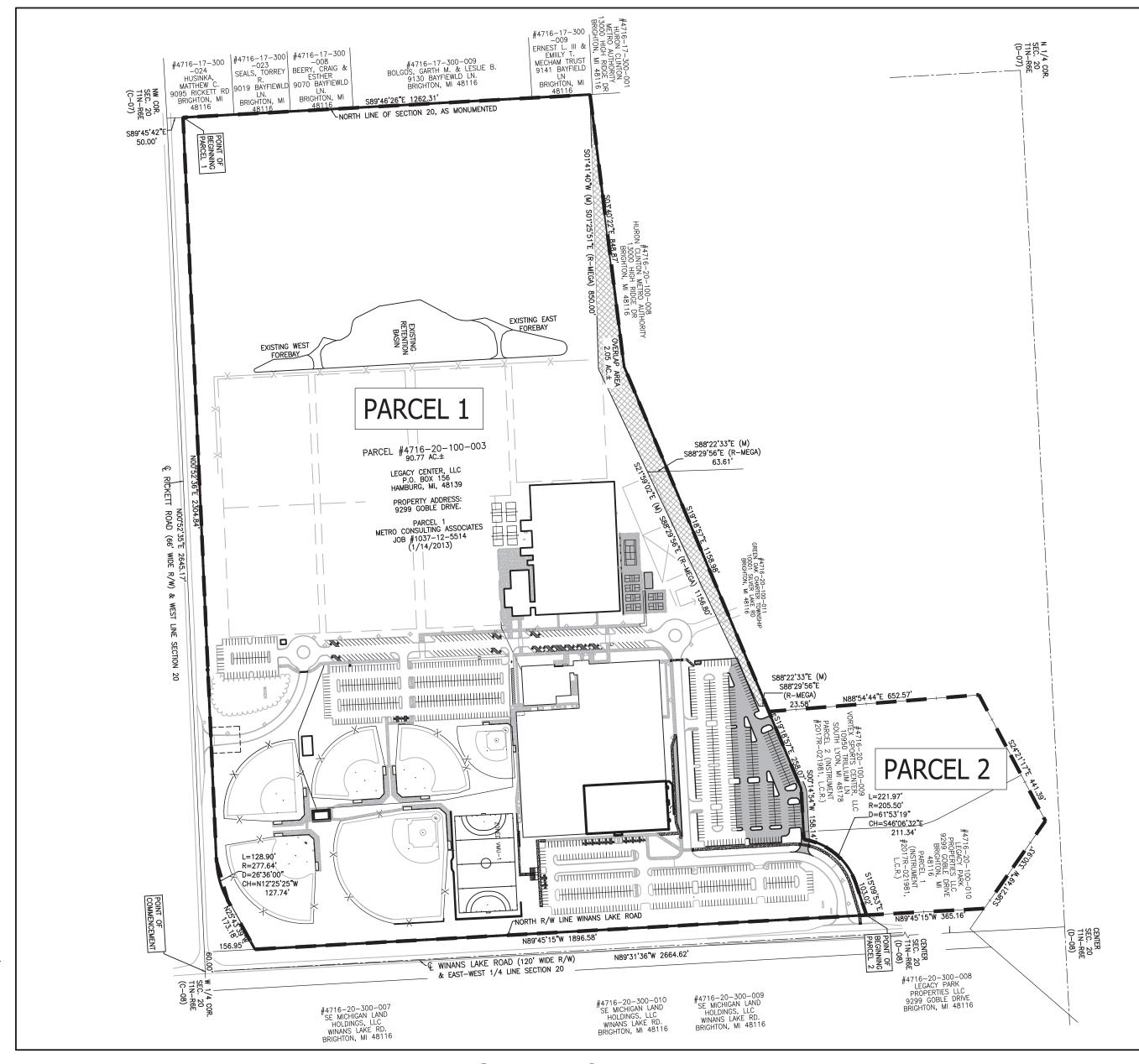
INDEMNIFICATION STATEMENT

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

SITE PLAN & SPECIAL USE

LEGACY CENTER PHASE ONE "F"

MEDICAL BUILDING WITH FITNESS CLUB & LIVINGSTON CHRISTIAN SCHOOLS PART OF THE NW 1/4, SECTION 20 GREEN OAK TOWNSHIP, LIVINGSTON COUNTY, MICHIGAN



OVERALL SITE MAP

NO SCALE

ARCHITECT: PREPARED FOR:

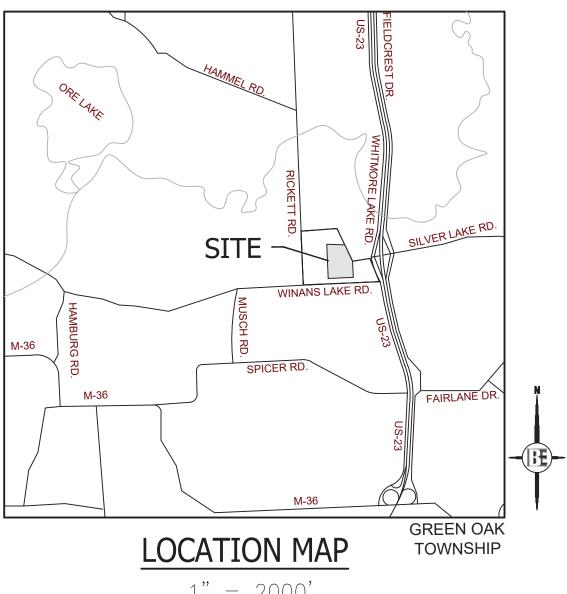
THE MCFATE GROUP 7136 JACKSON ROAD ANN ARBOR, MI 48103 CONTACT: JON STEVENS PHONE: (734) 433-0020

LEGACY CENTER, LLC. 9299 GOBLE DRIVE BRIGHTON, MI 48116 CONTACT: MR. RODNEY GOBLE PHONE: (810) 231-9288 EMAIL: GOBLE24@GMAIL.COM

PREPARED BY:

3121 E. GRAND RIVER AVE. HOWELL, MI. 48843

517.546.4836 FAX 517.548.1670 CONTACT: BRENT LAVANWAY PHONE: 517.546.4836



	1" = 2000'			
	SHEET INDEX			
SHEET NO.	DESCRIPTION			
G-100 G-101 G-110 G-111 G-113 LS-100 LS-101 LS-102 LS-103 C1 C2 C3 C4 C5 C6 C6A C6B C6C C7 C8 C9 C10 C11 C12 C13 C14 C15 C16	GENERAL (BY THE MCFATE GROUP) TITLE SHEET DRAWING INDEX PERSPECTIVES PERSPECTIVES TENANT BREAKDOWN CODE ANALYSIS PLAN & SCHEDULES LEVLE1 LIFE SAFETY PLAN LEVEL2 LIFE SAFETY PLAN LEVEL3 LIFE SAFETY PLAN CIVIL COVER SHEET GENERAL NOTES & LEGEND EXISTING CONDITION & DEMOLITION PLAN OVERALL SITE PLAN SITE PLAN OVERALL DRAINAGE PLAN PARKING LOT GRADING & DRAINAGE PLAN PICKLEBALL COURTS GRADING & DRAINAGE PLAN WEDICAL CENTER GRADING & DRAINAGE PLAN UTILITY PLAN SOIL EROSION & SEDIMENTATION CONTROL PLAN SITE LANDSCAPE PLAN OVERALL LANDSCAPE PLAN CONSTRUCTION DETAILS STORMWATER MANAGEMENT PLAN PARKING CALCULATION PLAN SANITARY SEWER PROFILE PICKLEBALL & PARKING LOT STORM PROFILE PHOTOMETRIC PLAN			
A-001 A-002 A-005 A-101 A-102 A-103 A-110 A-120 A-130 A-150 A-301 A-301 A-302 A-351 A-352 A-400	ARCHITECTURAL (BY THE MCFATE GROUP) OVERALL SITE PLAN SITE PHOTOMETRIC PICKLEBALL COVERED AREA OVERALL LEVEL1 (FIELD) FLOOR PLAN OVERALL LEVEL2 (ENTRY) FLOOR PLAN OVERALL LEVEL3 (UPPER LEVEL) FLOOR PLAN PRIMARY LEVEL1 FLOOR PLAN PRIMARY LEVEL2 FLOOR PLAN PRIMARY LEVEL3 FLOOR PLAN PRIMARY ROOF PLAN EXTERIOR ELEVATIONS EXTERIOR MATERIAL PALETTE EXTERIOR LIGHT FIXTURES BUILDING SECTION BUILDING SECTION BUILDING SECTION FIELD HOUSE ELEVATION			



517-997-1898

GENERAL NOTES

- 1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED TOWNSHIP, COUNTY, AND STATE OF MICHIGAN PERMITS.
- 2. A GRADING PERMIT FOR SOIL EROSION-SEDIMENTATION CONTROL SHALL BE OBTAINED FROM THE GOVERNING AGENCY PRIOR TO THE START OF CONSTRUCTION.
- 3. IF DUST PROBLEM OCCURS DURING CONSTRUCTION, CONTROL WILL BE PROVIDED BY AN APPLICATION OF WATER, EITHER BY SPRINKLER OR TANK TRUCK.
- 4. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH LOCAL MUNICIPAL STANDARDS AND
- SPECIFICATIONS. 5. PAVED SURFACES, WALKWAYS, SIGNS, LIGHTING AND OTHER STRUCTURES SHALL BE MAINTAINED IN A SAFE,
- 6. ALL BARRIER-FREE FEATURES SHALL BE CONSTRUCTED TO MEET ALL LOCAL, STATE AND A.D.A. REQUIREMENTS. WHERE EXISTING CONDITIONS AND/OR THE REQUIREMENTS OF THE PLANS WILL RESULT IN

FINISHED CONDITIONS THAT DO NOT MEET ADA REQUIREMENTS, THE CONTRACTOR SHALL NOTIFY THE DESIGN

- ENGINEER PRIOR TO WORK COMMENCING. 7. ANY DISCREPANCY IN THIS PLAN AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE DESIGN ENGINEER PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION
- OF ALL SETBACKS, EASEMENTS AND DIMENSIONS SHOWN HEREON PRIOR TO BEGINNING CONSTRUCTION. 8. THE CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES AND RIGHT-OF-WAY, PUBLIC OR
- 9. THE CONTRACTOR SHALL COORDINATE WITH ALL OWNERS TO DETERMINE THE LOCATION OF EXISTING LANDSCAPING, IRRIGATION LINES & PRIVATE UTILITY LINES. THE CONTRACTOR IS RESPONSIBLE FOR ANY
- 10. THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE UPON COMPLETION OF THE

DAMAGE TO EXISTING LANDSCAPING, IRRIGATION LINES, AND PRIVATE UTILITY LINES.

- 11. THE CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND PUBLIC SHALL BE
- PROTECTED FROM INJURY, AND ADJOINING PROPERTY PROTECTED FROM DAMAGE.
- 12. THE CONTRACTOR SHALL KEEP THE AREA OUTSIDE THE "CONSTRUCTION LIMITS" BROOM CLEAN AT ALL TIMES. 13. THE CONTRACTOR SHALL CALL MISS DIG A MINIMUM OF 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
- 14. ALL PAVEMENT REPLACEMENT AND OTHER WORKS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE TOWNSHIP, INCLUDING THE LATEST MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
- 15. THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE TO EXISTING UTILITIES.

ATTRACTIVE CONDITION AS ORIGINALLY DESIGNED AND CONSTRUCTED.

PRIVATE, PRIOR TO THE START OF CONSTRUCTION.

- 16. NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR ANY DELAY OR INCONVENIENCE DUE TO THE MATERIAL SHORTAGES OR RESPONSIBLE DELAYS DUE TO THE OPERATIONS OF SUCH OTHER PARTIES DOING WORK INDICATED OR SHOWN ON THE PLANS OR IN THE SPECIFICATION OR FOR ANY REASONABLE DELAYS IN CONSTRUCTION DUE TO THE ENCOUNTERING OR EXISTING UTILITIES THAT MAY OR MAY NOT BE SHOWN ON THE PLANS.
- 17. DURING THE CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL NOT PERFORM WORK BY PRIVATE AGREEMENT WITH PROPERTY OWNERS ADJACENT TO THE PROJECT.
- 18. IF WORK EXTENDS BEYOND NOVEMBER 15, NO COMPENSATION WILL BE DUE TO THE CONTRACTOR FOR ANY WINTER PROTECTION MEASURES THAT MAY BE REQUIRED BY THE ENGINEER.
- 19. NO TREES ARE TO BE REMOVED UNTIL MARKED IN THE FIELD BY THE ENGINEER.
- 20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PROPERTY BEYOND THE CONSTRUCTION LIMITS INCLUDING BUT NOT LIMITED TO EXISTING FENCE, LAWN, TREES AND SHRUBBERY.
- 21. TRAFFIC SHALL BE MAINTAINED DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL SIGNS AND TRAFFIC CONTROL DEVICES. FLAG PERSONS SHALL BE PROVIDED BY THE CONTRACTOR IF DETERMINED NECESSARY BY THE ENGINEER. ALL SIGNS SHALL CONFORM TO THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AT NO COST TO THE TOWNSHIP. NO WORK SHALL BE DONE UNLESS THE APPROPRIATE TRAFFIC CONTROL DEVICES ARE IN PLACE.
- 22. ALL DEMOLISHED MATERIALS AND SOIL SPOILS SHALL BE REMOVED FROM THE SITE AT NO ADDITIONAL COST, AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
- 23. ANY EXISTING APPURTENANCES SUCH AS MANHOLES, GATE VALVES, ETC. SHALL BE ADJUSTED TO THE PROPOSED GRADE AND SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- 24. ALL PERMANENT SIGNS AND PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST REVISION OF THE MICHIGAN MUTCD MANUAL AND SHALL BE INCIDENTAL TO THE CONTRACT.
- 25. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL ITEMS REQUIRED FOR CONSTRUCTION OF THE PROJECT ARE INCLUDED IN THE CONTRACT. ANY ITEMS NOT SPECIFICALLY DESIGNATED IN THE PLANS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- 26. THE CONTRACTOR IS RESPONSIBLE FOR HAVING A SET OF APPROVED CONSTRUCTION PLANS, WITH THE LATEST REVISION DATE, ON SITE PRIOR TO THE START OF CONSTRUCTION. IN THE EVENT OF ANY QUESTIONS PERTAINING TO THE INTENT OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL
- CONTACT THE DESIGN ENGINEER FOR A FINAL DETERMINATION FROM THE DESIGN ENGINEER. 27. THE CONTRACTOR, NOT THE OWNER OR THE ENGINEER, ARE RESPONSIBLE FOR THE MEANS, METHODS, AND SEQUENCE OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR SAFE EXECUTION OF THE PROJECT SCOPE IN ACCORDANCE WITH THE APPROVED CONSTRUCTION PLANS.
- 28. THE CONTRACTOR IS RESPONSIBLE FOR PRESERVING CONSTRUCTION STAKING AS NECESSARY. CONTRACTOR TO NOTIFY CONSTRUCTION SURVEYOR OF REPLACEMENT STAKES NEEDED WHICH SHALL BE AT THE CONTRACTORS
- 29. THE OWNER AND/OR CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING FRANCHISE UTILITY SERVICES (CABLE, ELECTRIC, GAS, ETC.) OWNER AND/OR CONTRACTOR SHALL WORK WITH UTILITY COMPANIES ON FURNISHING SITE UTILITY LAYOUTS AND PROVIDING CONDUIT CROSSINGS AS REQUIRED.
- 30. DAMAGE TO ANY EXISTING UTILITIES OR INFRASTRUCTURE (INCLUDING PAVEMENT, CURB, SIDEWALK, ETC.) SHALL PROMPTLY BE REPLACED IN KIND AND SHALL BE AT THE CONTRACTORS EXPENSE.
- 31. COORDINATION OF TESTING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND PER ALL CITY/TOWNSHIP/COUNTY REQUIREMENTS. COPIES OF ALL TEST REPORTS SHALL BE FURNISHED TO THE DESIGN
- 32. PRIOR TO THE START OF CONSTRUCTION, PROTECTION FENCING SHALL BE ERECTED AROUND THE TREE DRIPLINE OF ANY TREES INDICATED TO BE SAVED WITHIN THE LIMITS OF DISTURBANCE.
- 33. THE CONTRACTOR SHALL MAINTAIN DRAINAGE OF THE PROJECT AREA AND ADJACENT AREAS. WHERE EXISTING DRAINAGE FACILITIES ARE IMPACTED/DISTURBED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE ANY NECESSARY TEMPORARY DRAINAGE PROVISIONS.
- 34. SOIL BORING LOGS ARE REPRESENTATIVE OF SPECIFIC POINTS ON THE PROJECT SITE, AND IF PROVIDED TO THE CONTRACTOR ARE FOR INFORMATIONAL PURPOSES ONLY.
- 35. WHERE CITY/TOWNSHIP STANDARD CONSTRUCTION DETAILS/SPECIFICATIONS ARE PROVIDED AND ARE IN CONFLICT WITH NOTES AND SPECIFICATIONS HEREIN, THE CITY/TOWNSHIP STANDARD SHALL GOVERN.

INDEMNIFICATION STATEMENT

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

GENERAL GRADING & SESC NOTES

- 1. THE CONTRACTOR SHALL HAVE IN PLACE ALL REQUIRED EROSION CONTROL METHODS AS INDICATED ON THE CONSTRUCTION PLANS AND AS REQUIRED BY GENERAL PRACTICE. SPECIFIC MEANS, METHODS AND SEQUENCES OF CONSTRUCTION MAY DICTATE ADDITIONAL SOIL EROSION CONTROL MEASURES BE NEEDED. THE CONTRACTOR SHALL COORDINATE WITH THE DESIGN ENGINEER ON THESE ANTICIPATED METHODS. ADDITIONAL SOIL EROSION CONTROL METHODS SHALL BE INCIDENTAL TO THE SCOPE OF WORK.
- 2. ACTUAL FIELD CONDITIONS MAY DICTATE ADDITIONAL OR ALTERNATE SOIL EROSION CONTROL MEASURES BE UTILIZED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DEFICIENCIES OR FIELD CONDITIONS THAT WARRANT ADDITIONAL AND/OR ALTERNATIVE SESC MEASURES BE UTILIZED.
- 3. AT THE CLOSE OF EACH DAY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL CONSTRUCTION OPERATIONS, MATERIALS, DEBRIS, ETC ARE CONTAINED ON-SITE.
- 4. AT THE CLOSE OF EACH WORKING DAY, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS AT THE FLOW LINE.
- 5. ALL SOIL EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE PER MDEGLE REGULATIONS AND
- BEST PRACTICES, ALL SOIL EROSION CONTROL MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR. THE SOIL EROSION CONTROL MEASURES SHALL BE KEPT IN PLACE UNTIL SUCH A TIME THAT THE SITE IS
- DETERMINED TO BE ESTABLISHED WITH ACCEPTABLE AMOUNT OF VEGETATIVE GROUND COVER.
- 7. ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND THE NORMAL CONSTRUCTION LIMITS OF THE PROJECT SHALL BE SODDED OR SEEDED AS SPECIFIED OR DIRECTED BY THE ENGINEER.
- 8. AFTER REMOVAL OF TOPSOIL, THE SUBGRADE SHALL BE COMPACTED TO 95% OF ITS UNIT WEIGHT.
- 9. ALL GRADING IN THE PLANS SHALL BE DONE AS PART OF THIS CONTRACT. ALL DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE SUBGRADE PRIOR TO COMPACTING.
- 10. ALL ROOTS, STUMPS AND OTHER OBJECTIONABLE MATERIALS SHALL BE REMOVED AND THE HOLE BACKFILLED WITH SUITABLE MATERIAL. WHERE GRADE CORRECTION IS REQUIRED, THE SUBGRADE SHALL BE CUT TO CONFORM TO THE CROSS-SECTION AS SHOWN IN THE PLANS.
- 11. ALL EXCAVATION UNDER OR WITHIN 3 FEET OF PUBLIC PAVEMENT, EXISTING OR PROPOSED SHALL BE BACKFILLED AND COMPACTED WITH SAND (MDOT CLASS II).

GENERAL LANDSCAPE NOTES

- 1. ALL PLANT MATERIAL SHALL CONFORM TO THE REQUIREMENTS AND SPECIFICATIONS OF THE GOVERNING MUNICIPALITY. ALL STOCK SHALL BE NURSERY GROWN, CONFORMING TO ANSI Z60.1 "AMERICAN STANDARD FOR NURSERY STOCK", AND IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICE. STOCK SHALL EXHIBIT NORMAL GROWTH HABIT AND BE FREE OF DISEASE, INSECTS, EGGS, LARVAE, & DEFECTS SUCH AS KNOTS, SUN-SCALD, INJURIES, ABRASIONS, OR DISFIGUREMENT. ALL PLANT MATERIAL SHALL BE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT.
- ALL PLANT MATERIALS SHALL BE BALLED AND BURLAPPED OR CONTAINER STOCK. NO BARE ROOT STOCK IS PERMITTED. ALL PLANT BALLS SHALL BE FIRM, INTACT, AND SECURELY WRAPPED AND BOUND.
- 3. ALL PLANT BED MATERIALS SHALL BE EXCAVATED OF ALL BUILDING MATERIALS, OTHER EXTRANEOUS OBJECTS, AND POOR SOILS TO A MINIMUM DEPTH OF 12-INCHES AND BACKFILLED TO GRADE WITH SPECIFIED PLANTING MIX (SEE BELOW).
- 4. PLANTING MIXTURE SHALL CONSIST OF 5 PARTS TOPSOIL FROM ON-SITE (AS APPROVED), 4 PARTS COARSE SAND, 1 PART SPHAGNUM PEAT MOSS (OR APPROVED COMPOST), AND 5 LBS OF SUPERPHOSPHATE FERTILIZER PER CU. YD. OF MIX. INGREDIENTS SHALL BE THOROUGHLY BLENDED FOR UNIFORM CONSISTENCY.
- 5. ALL PLANT BEDS AND INDIVIDUAL PLANTS, NOT OTHERWISE NOTED SHALL BE MULCHED WITH A 4-INCH LAYER OF SHREDDED BARK MULCH. EDGE OF MULCH BEDS AS SHOWN. DECIDUOUS TREES IN LAWN AREAS SHALL RECEIVE A 5-FT DIAMETER CIRCLE OF MULCH AND CONIFER TREES 8-FT (PLANTED CROWN OF TREE) UNLESS OTHERWISE NOTED.
- 6. LANDSCAPE STONE SHALL BE INSTALLED WHERE NOTED OR INDICATED (HATCHED). STONE SHALL BE 3/4"-1-1/4" WASHED RIVER GRAVEL OR AS SELECTED AND SHALL BE INSTALLED TO A MINIMUM DEPTH OF 3-INCHES.
- 7. ALL LANDSCAPE BEDS, UNLESS OTHERWISE NOTED SHALL BE INSTALLED OVER WEED BARRIER FABRIC WATER PERMEABLE FILTRATION FABRIC OF NON-WOVEN POLYPROPYLENE OR POLYESTER FABRIC. FABRIC SHALL BE OF SUITABLE THICKNESS FOR APPLICATION.
- 8. ALL PLANTS AND PLANT BEDS SHALL BE THOROUGHLY WATERED UPON COMPLETION OF PLANTING AND STAKING OPERATIONS.
- THE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIALS FOR A PERIOD OF 1 YEAR FROM THE DATE THE WORK IS ACCEPTED, IN WRITING, BY THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL REPLACE, WITHOUT COST TO THE OWNER, WITHIN A SPECIFIED PERIOD OF TIME, ALL DEAD PLANTS, AND ALL PLANTS NOT IN A VIGOROUS, THRIVING CONDITION, AS DETERMINED BY THE LANDSCAPE ARCHITECT, DURING AND AT THE END OF THE GUARANTEE PERIOD. REPLACEMENT STOCK SHALL CONFORM TO THE ORIGINAL SPECIFICATIONS.
- 10. EDGING SHALL BE PROVIDED FOR ALL LANDSCAPE BEDS NOT ADJACENT TO CONCRETE PAVEMENT. EDGING SHALL BE BLACK ALUMINUM EDGING, 3/16-INCH X 4-INCH. INSTALL PER MANUFACTURER'S INSTRUCTIONS, ALL EDGING SHALL BE INSTALLED IN STRAIGHT LINES OR SMOOTH CURVES WITHOUT IRREGULARITIES.
- 11. SOD SHALL BE DENSE, WELL ROOTED TURF, FREE OF WEEDS. IT SHALL BE COMPRISED OF A BLEND OF AT LEAST TWO KENTUCKY BLUE GRASSES AND ONE FESCUE. IT SHALL HAVE A UNIFORM THICKNESS OF 3/4-INCH AT TIME OF PLANTING, AND CUT IN UNIFORM STRIPS NOT LESS THAN 10-INCHES BY 18-INCHES. SOD SHALL BE KEPT MOIST AND LAID WITHIN 36-HOURS AFTER CUTTING.
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH A DENSE LAWN OF PERMANENT GRASSES, FREE OF LUMPS AND DEPRESSIONS. ALL SODDED AREAS THAT BROWN-OUT OR HAVE NOT FIRMLY KNITTED TO THE SOIL BASE WITHIN A PERIOD OF 1 MONTH SHALL BE REPLACED BY THE CONTRACTOR, AT NO COST TO THE OWNER.
- 12. ALL AREAS OF THE SITE THAT BECOME DISTURBED DURING CONSTRUCTION AND ARE NOT TO BE PAVED, STONED, LANDSCAPED, OR SODDED SHALL BE SEEDED AND MULCHED.

SEED MIXTURE SHALL BE AS FOLLOWS: KENTUCKY BLUEGRASS (CHOOSE 3 VARIETIES -30% ADELPHI, RUGBY, GLADE, OR PARADE) RUBY RED OR DAWSON RED FINE FESCUE 30% ATLANTA RED FESCUE 20% PENNFINE PERENNIAL RYE

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

10% NITROGEN - MIN 25% FROM A UREA FORMALDEHYDE SOURCE

0 % PHOSPHATE 10% POTASH - SOURCE POTASSIUM SULFATE OR POTASSIUM NITRATE

THE FIRST FERTILIZER APPLICATION SHALL BE AT A RATE OF 10 LBS PER 1000 SQ FT OF BULK FERTILIZER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH A DENSE LAWN OF PERMANENT GRASSES, FREE

OF LUMPS AND DEPRESSIONS. ANY PART OF THE AREA THAT FAILS TO SHOW A UNIFORM GERMINATION SHALL BE RE-SEEDED AND SUCH RE-SEEDING SHALL CONTINUE UNTIL A DENSE LAWN IS ESTABLISHED. DAMAGE TO SEEDED AREAS RESULTING FROM EROSION SHALL BE REPAIRED BY THE CONTRACTOR.

- 13. ALL AREAS OF THE SITE SCHEDULED FOR SEEDING OR SODDING SHALL FIRST RECEIVE A 6-INCH LAYER OF CLEAN, FRIABLE TOPSOIL. THE SOIL SHALL BE DISCED AND SHALL BE GRADED IN CONFORMANCE WITH THE GRADING PLAN.
- 14. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL UTILITIES AND TO INFORM THE LANDSCAPE ARCHITECT OF ANY CONFLICTS PRIOR TO COMMENCING LANDSCAPING.

GENERAL UTILITY NOTES

- BEDDING SHALL EXTEND A MINIMUM OF 4" BELOW THE PIPE, UNLESS OTHERWISE NOTED ON THE PLANS. BEDDING SHALL BE OF UNIFORM GRADATION MDOT 6AA STONE OR MDOT CLASS II GRANULAR MATERIAL FOR SANITARY AND STORM PIPE AND MDOT CLASS II GRANULAR MATERIAL ONLY FOR WATERMAIN.
- 2. WHERE UNSTABLE GROUND CONDITIONS ARE ENCOUNTERED, STONE BEDDING SHALL BE USED AS DIRECTED BY THE ENGINEER.
- 3. BACKFILL SHALL BE OF A SUITABLE MATERIAL AND SHALL BE FREE OF ANY ORGANIC MATERIALS AND ROCKS.
- 4. BACKFILL ABOVE THE PIPE SHALL BE OF GRANULAR MATERIAL MDOT CLASS II TO A POINT 12" ABOVE THE TOP OF THE PIPE. WHERE THE TRENCH IS NOT WITHIN THE INFLUENCE OF THE ROAD, SUITABLE SITE MATERIAL MAY BE COMPACTED AND UTILIZED FROM A POINT 12" ABOVE THE PIPE TO GRADE. WHERE THE TRENCH IS WITHIN A 1:1 INFLUENCE OF THE ROAD, GRANULAR MATERIAL, MDOT CLASS II OR III, IS TO BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 12" IN THICKNESS. COMPACTION SHALL BE 95% AS DETERMINED BY AASHTO T99.
- 5. 18" MINIMUM VERTICAL SEPARATION AND 10' HORIZONTAL SEPARATION IS TO BE MAINTAINED BETWEEN WATERMAIN AND SANITARY/STORM SEWER TO THE MAXIMUM EXTENT POSSIBLE.

GENERAL STORM NOTES

- 1. ALL STORM PIPE LENGTHS ARE SHOWN FROM C/L TO C/L OF STRUCTURE OR FROM C/L OF STRUCTURE TO DISCHARGE END OF FLARED END SECTION.
- 2. STORM PIPE MATERIALS SHALL BE AS FOLLOWS: 2.1. PP(POLYPROPYLENE): SHALL MEET THE REQUIREMENTS OF ASTM F2881.
- 3. STORM PIPE JOINTS SHALL MEET THE REQUIREMENTS OF ASTM D3212. HDPE AND PP PIPE GASKETS SHALL MEET THE REQUIREMENTS OF ASTM F477.
- 4. ALL STORM PIPE TO HAVE WATERTIGHT PREMIUM JOINTS, UNLESS OTHERWISE NOTED ON THE PLANS.
- 5. STORM DRAINAGE STRUCTURES SHALL BE FURNISHED WITH STEPS WHICH SHALL BE STEEL ENCASED WITH POLYPROPYLENE PLASTIC OR EQUIVALENT. STEPS SHALL BE SET AT 16" CENTER TO CENTER.
- 6. ALL FLARED END SECTIONS 15" AND LARGER SHALL BE FURNISHED WITH AN ANIMAL GRATE.
- 7. FLARED END SECTIONS DISCHARGING STORM WATER SHALL RECEIVE A MINIMUM OF 10 SQ YDS OF PLAIN COBBLESTONE RIP RAP WITH A MINIMUM STONE SIZE OF 6" AND SHALL BE PLACED ON A GEOTEXTILE FABRIC
- 8. ALL CATCH BASINS WITHIN THE ROADWAY SHALL INCLUDE INSTALLATION OF 6" DIAMETER PERFORATED PIPE
- 9. STORM DRAINAGE STRUCTURE COVERS SHALL BE OF THE FOLLOWING (OR APPROVED EQUAL):

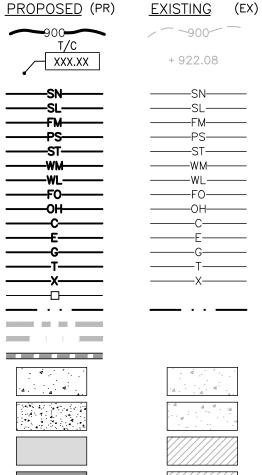
FRAME

COVER USE GRATE/BACK MANHOLE 1040 TYPE 'B' PARKING LOTS 1040/5100 TYPE 'M1' GRATE OR 5105 TYPE 'M1' GRATE LAWN TYPE '02' GRATE

GENERAL SANITARY NOTES

- 1. ALL SANITARY PIPE LENGTHS ARE SHOWN FROM C/L OF STRUCTURE TO C/L OF STRUCTURE.
- 2. SANITARY PIPE MATERIALS SHALL BE AS FOLLOWS:
- 2.1. PVC SDR-26 (SANITARY MAIN) 2.2. PVC SDR-23.5 (SANITARY LEADS)
- 3. ALL PVC SDR SANITARY SEWER PIPE SHALL MEET THE REQUIREMENTS OF ASTM D3034 AND D2241. PVC SCHD 40 PIPE SHALL MEET THE REQUIREMENTS OF ASTM D1785. GASKET JOINTS FOR SANITARY PIPE SHALL MEET THE REQUIREMENTS OF ASTM D3139 AND D3212.
- 4. SANITARY STRUCTURES SHALL BE FURNISHED WITH STEPS WHICH SHALL BE STEEL ENCASED WITH POLYPROPYLENE PLASTIC OR EQUIVALENT. STEPS SHALL BE SET AT 16" CENTER TO CENTER.
- 5. ALL NEW MANHOLES SHALL BE MINIMUM 4' DIAMETER, PRECAST MANHOLE SECTIONS AND AN ECCENTRIC CONE. PRECAST MANHOLE JOINTS SHALL BE INSTALLED WITH BUTYL ROPE MEETING THE REQUIREMENTS OF
- 6. MANHOLES SHALL BE CONSTRUCTED WITH FLOW CHANNEL WALLS THAT ARE FORMER, AT A MINIMUM, TO THE SPRINGLINE OF THE PIPE.
- 7. ALL NEW MANHOLES SHALL HAVE AN APPROVED FLEXIBLE, WATERTIGHT SEALS WHERE PIPES PASS THROUGH MANHOLE WALLS.
- WHEREVER AN EXISTING MANHOLE IS TO BE TAPPED, THE STRUCTURE SHALL BE CORED AND A KOR-N-SEAL BOOT UTILIZED FOR THE PIPE CONNECTION.
- 9. ALL MANHOLES SHALL BE PROVIDED WITH WATERTIGHT COVERS. COVERS TO BE EJCO 1040 TYPE 'A' SOLID
- 10. A MAXIMUM OF 12" OF GRADE ADJUSTMENT RINGS SHALL BE USED TO ADJUST THE FRAME ELEVATION. BUTYL ROPE SHALL BE USED BETWEEN EACH ADJUSTMENT RING.
- 11. SANITARY SEWER LATERALS SHALL HAVE A MINIMUM SLOPE OF 1.0%.
- 12. CLEANOUTS SHALL BE INSTALLED EVERY 100', AT ALL BENDS AND STUBS.

LINES & HATCHES LEGEND



MODIFIED CURB CONCRETE HIGH STRENGTH CONCRETE

CONTOUR

SPOT ELEVATION

SANITARY SEWER

PRESSURE SEWER

SANITARY LEAD

FORCE MAIN

STORM SEWER

WATER MAIN

WATER LEAD

FIBER OPTIC

CABLE

GAS

FENCE

ELECTRIC

TELEPHONE

SILT FENCE

WETLAND BOUNDARY

LIMITS OF DRAINAGE

LIMITS OF GRADING/CLEARING

OVERHEAD WIRE

ASPHALT HIGH STRENGTH ASPHALT

WETLAND

SANITARY SEWER LABEL

STORM SEWER LABEL WATER MAIN LABEL

SOIL EROSION CONTROL MEASURE (P=PERMANENT, T=TEMPORARY)

LIGHTING LEGEND EXISTING (EX) <u>PROPOSED</u> (PR) \bigcirc

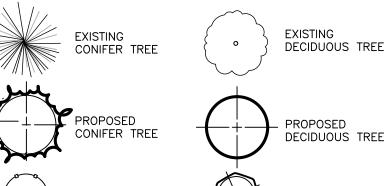
DOUBLE FIXTURE LIGHT POLE SINGLE FIXTURE LIGHT FIXTURE WALL MOUNTED LIGHT FIXTURE GROUND LIGHT FIXTURE

FOOT CANDLES ON SITE FOOT CANDLES OFF SITE

FOOT CANDLES CONTOURS CANOPY MOUNTED LIGHT FIXTURE

LANDSCAPE LEGEND

(54T)



MULCH

<u>ABBREVIATIONS</u>

FINISHED GRADE

TOP OF ASPHALT

TOP OF WALK

BOTTOM OF PIPE

INVERT ELEVATION

FLARED END SECTION

POLYVINYL CHLORIDE

GATE VALVE IN WELL

GATE VALVE IN BOX

NOT FIELD VERIFIE

TO BE REMOVED

DUCTILE IRON PIPE

GATE VALVE

UTILITY POLE

CORRUGATED METAL PIPE

CORRUGATED PLASTIC PIPE

REINFORCED CONCRETE PIPE

HIGH DENSITY POLYETHYLENE

FIRE DEPARTMENT CONNECTION

LIVINGSTON COUNTY RECORDS

MEASURED AND RECORD

POINT OF BEGINNING

TOP OF PIPE

FLOW LINE

MANHOLE

CATCH BASIN

YARD DRAIN

RFAR YARD

FINISHED FLOOR ELEVATION

GARAGE FLOOR ELEVATION

TOP OF CONCRETE/CURB

RIM ELEVATION (AT FLOW LINE)

BASEMENT FLOOR FLEVATION

DECIDUOUS SHRUBS PROPOSED GRASSES

PROPOSED

CABLE TV RISER U.G. CABLE TV MARKER MB MAILBOX WELL & PERENNIALS

LANDSCAPE BOULDER

→ HYDRANT (PROPOSED) ☐ CATCH BASIN (EXISTING)

PC PUMP CHAMBER -ф- TRAFFIC SIGN ⊥ SIGN (EXISTING)

SOIL BORING O STEEL ROD SET □ WOOD LATH SET

☐ HUB SET GP GAS PUMP ANTENNA

PHONE BOOTH HANDICAP SYMBOL AS SI GUARA COMP COMP LOCAT UTILIT CONTE FROM

Ш

BUIL

→ STORM DRAINAGE FLOW GUY WIRE --- POWER POLE TRANSFORMER PAD E ELECTRICAL RISER E U.G. ELECTRIC MARKER

ELECTRICAL METER AIR CONDITIONING UNIT □ TELEPHONE RISER T U.G. TELEPHONE MARKER G GAS RISER

U.G. GAS MARKER ORNAMENTAL TREE GAS METER

> W WATER MANHOLE

-CX HYDRANT (EXISTING)

CATCH BASIN (PROPOSED)

O STORM MANHOLE (EXISTING) STORM MANHOLE (PROPOSED) (END SECTION (EXISTING)

END SECTION (PROPOSED) SANITARY MANHOLE (EXISTING) SANITARY MANHOLE (PROPOSED)

SIGN (PROPOSED)

 STEEL ROD OR PIPE FOUND MONUMENT FOUND

SECTION CORNER (XX) SATELLITE DISH NEWSPAPER BOX

PARKING METER BENCHMARK

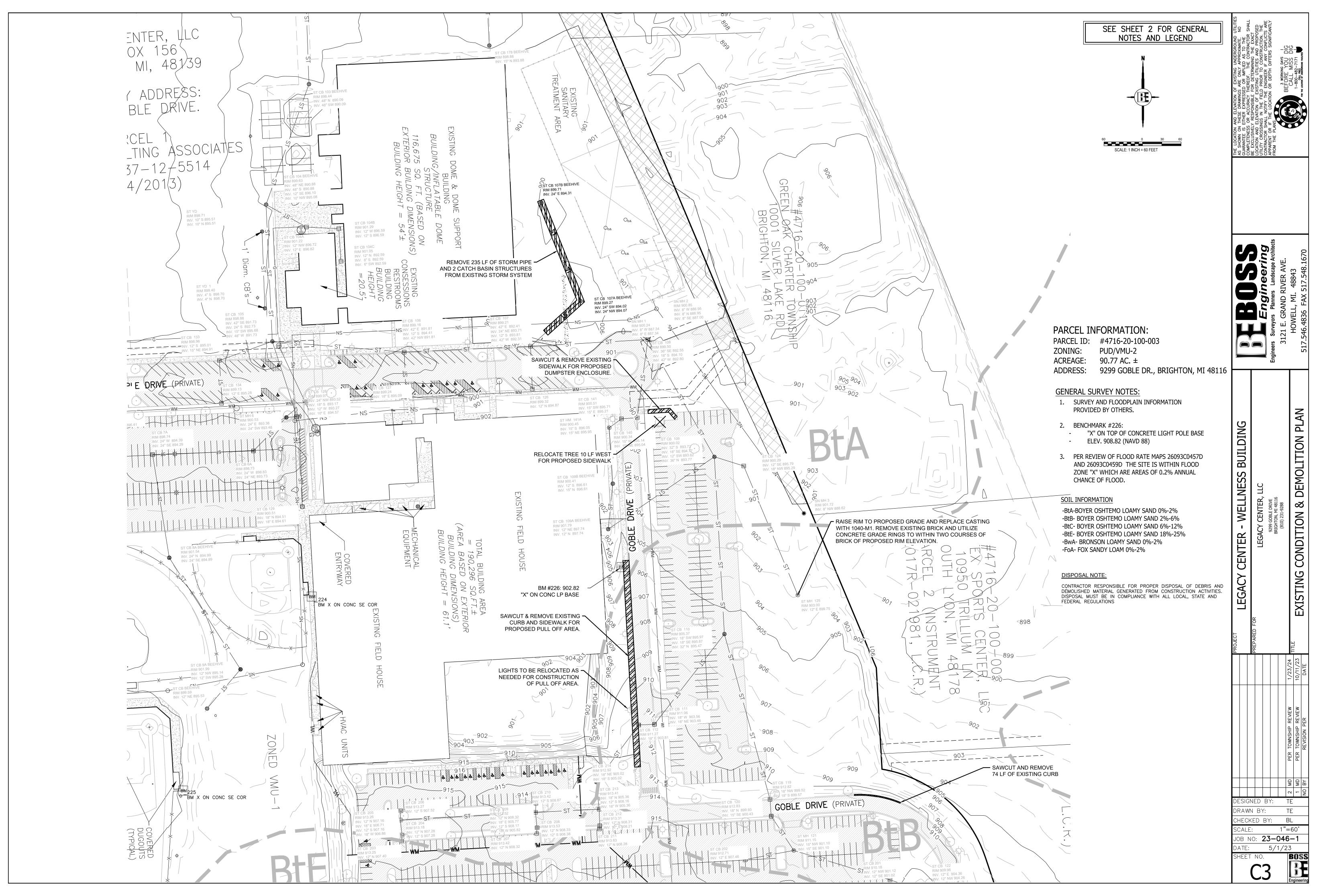
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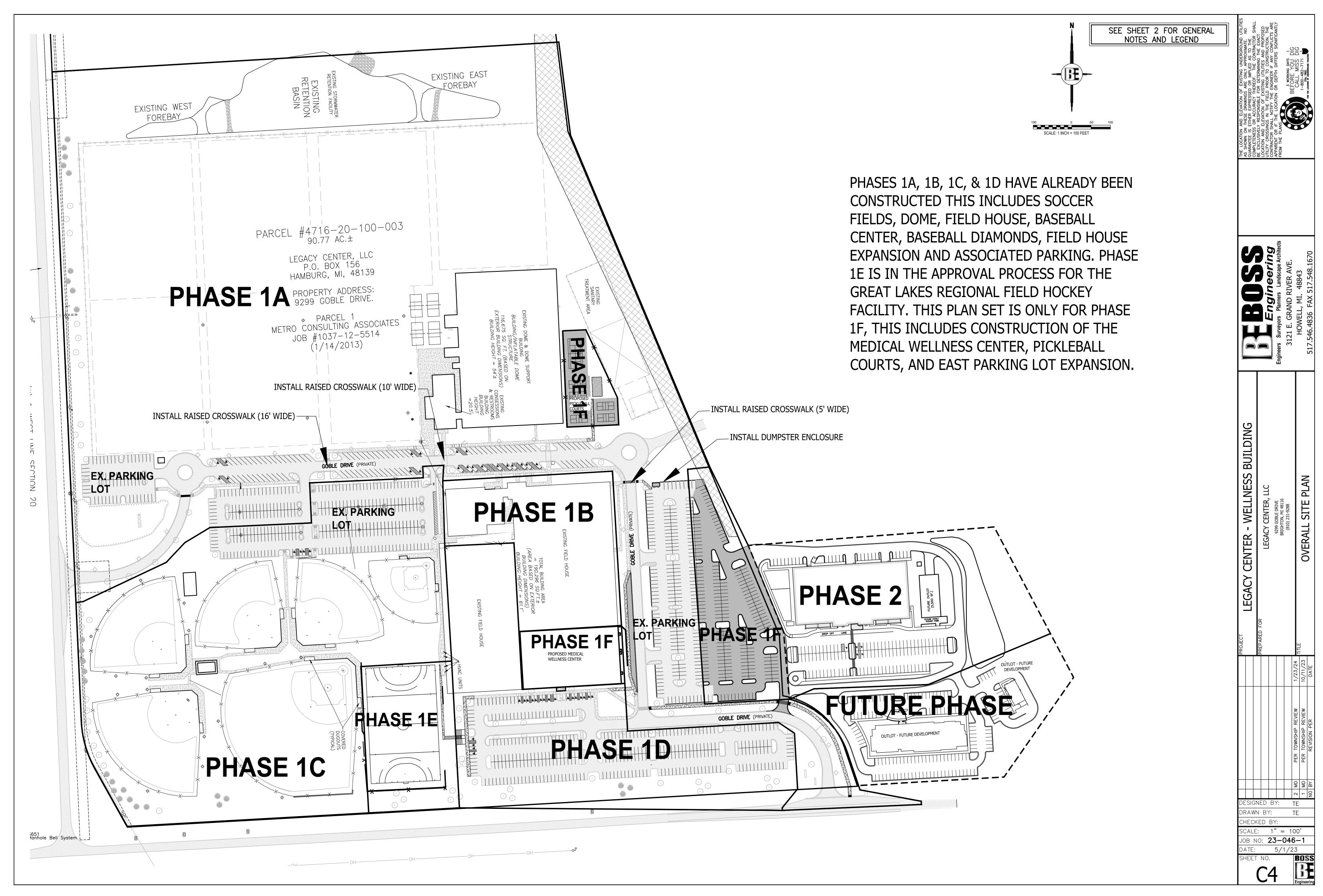
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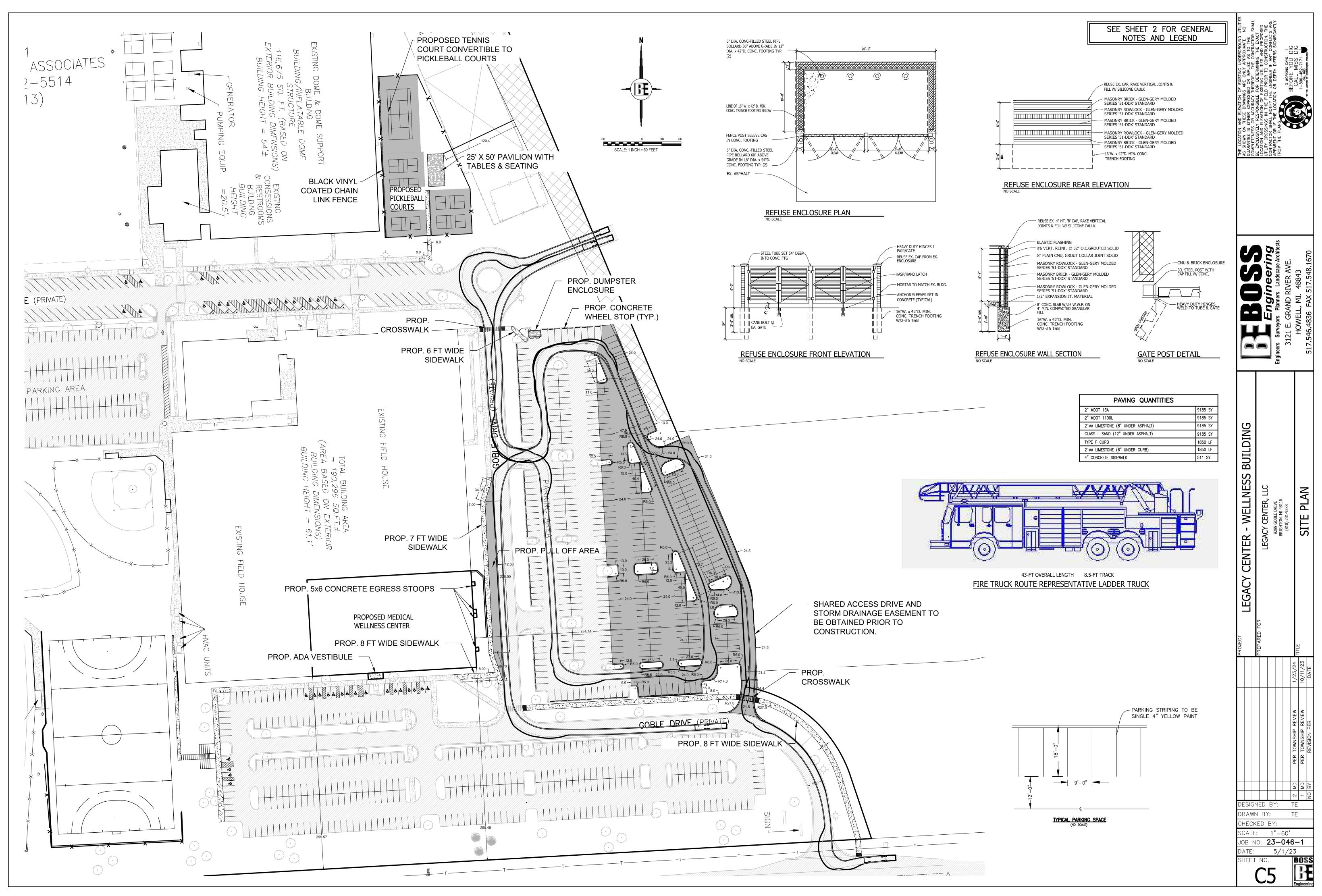
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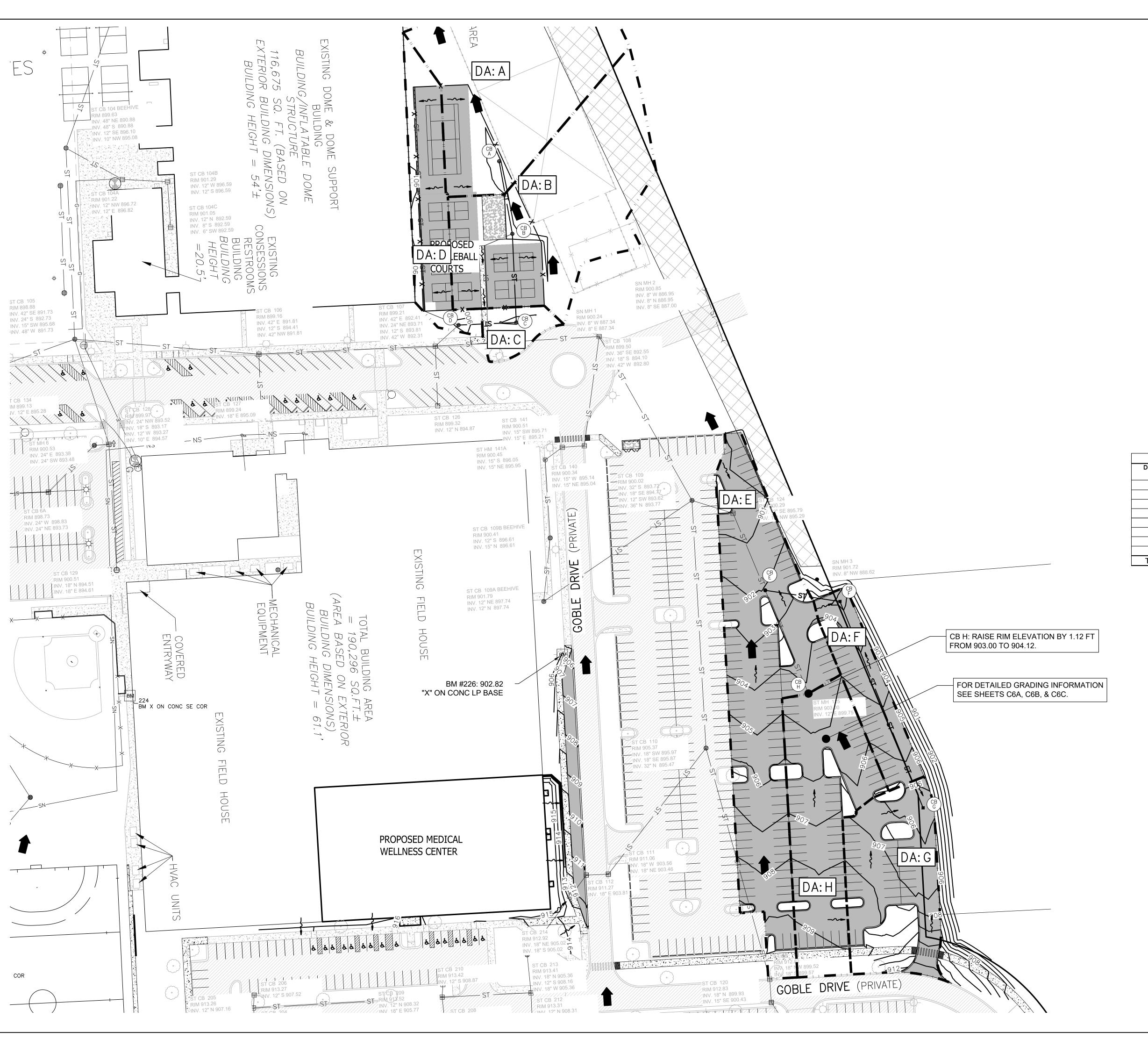
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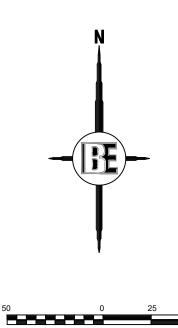








SEE SHEET 2 FOR GENERAL NOTES AND LEGEND



PAVING QUANTITIES	
2" MDOT 13A	9185 SY
2" MDOT 1100L	9185 SY
21AA LIMESTONE (8" UNDER ASPHALT)	9185 SY
CLASS II SAND (12" UNDER ASPHALT)	9185 SY
TYPE F CURB	1850 LF
21AA LIMESTONE (6" UNDER CURB)	1850 LF
4" CONCRETE SIDEWALK	426 SY

SCALE: 1 INCH = 50 FEET

	DRAINAGE A	REA TABLE		
DRAINAGE AREA	TOTAL AREA (AC)	IMP. AREA (AC)	C VALUE	A*C
А	0.78	0.08	0.28	0.21
В	0.84	0.23	0.40	0.33
С	0.08	0.01	0.24	0.02
D	0.30	0.18	0.62	0.18
Е	0.93	0.85	0.84	0.78
F	0.22	0.21	0.87	0.19
G	0.47	0.36	0.74	0.35
Н	0.54	0.48	0.82	0.45
TOTALS	4.16	2.41	0.61	2.52

FOR ELEVATION DIFFERENCES
BETWEEN TOP OF ASPHALT (T/A),
GUTTER PAN AND TOP OF CURB
(T/C). SEE DETAIL SHEET C11.

GENERAL SURVEY NOTES:

- 1. SURVEY AND FLOODPLAIN INFORMATION
- PROVIDED BY OTHERS.
 2. BENCHMARK #226:
- "X" ON TOP OF CONCRETE LIGHT POLE BASE
- ELEV. 908.82 (NAVD 88)
- 3. PER REVIEW OF FLOOD RATE MAPS 26093C0457D AND 26093C0459D THE SITE IS WITHIN FLOOD ZONE "X" WHICH ARE AREAS OF 0.2% ANNUAL CHANCE OF FLOOD.

THE LOCATION AND ELEVATION OF EXISTING UNDERGAS SHOWN ON THESE DRAWINGS ARE ONLY APPROX GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TOOMPLETENESS OR ACCURACY THEREOF. THE CONTINUATION AND ELEVATION OF EXISTING UTILITIES AND UTILITY CROSSINGS IN THE FIELD PRIOR TO CONSTRUCTOR SHALL NOTIFY THE ENGINEER IF ANY CAPPARENT OR IF THE LOCATION OR DEPTH DIFFERS FROM THE PLANS.

3 WORKING DAYS IN THE PLANS.

5 WORKING DAYS IN THE PLANS.

1-800-482-7171

Engineering
s Surveyors Planners Landscape Architects
3121 E. GRAND RIVER AVE.
HOWELL, MI. 48843
7.546.4836 FAX 517.548.1670

LEGACY CENTER, LLC
9299 GOBLE DRIVE
BRIGHTON, MI 48116
(810) 231-9288

OVERALL DRAINAGE PLAN

BUILDING

PRED BY:

CHECKED BY:

CHECKED

C6



SEE SHEET 2 FOR GENERAL NOTES AND LEGEND



BOSTONE SURVEYORS Planners Landscape Arch 3121 E. GRAND RIVER AVE.

THE LC AS SHO GUARAN COMPLI BE EXC LOCATIO UTILITY CONTRA APPARE FROM

PLAN 517.54

9299 GOBLE DRIVE BRIGHTON, MI 48116 (810) 231-9288 GRADING & DRAIN

GENERAL SURVEY NOTES:

- SURVEY AND FLOODPLAIN INFORMATION PROVIDED BY OTHERS.
- 2. BENCHMARK #226:
- "X" ON TOP OF CONCRETE LIGHT POLE BASE
 ELEV. 908.82 (NAVD 88)

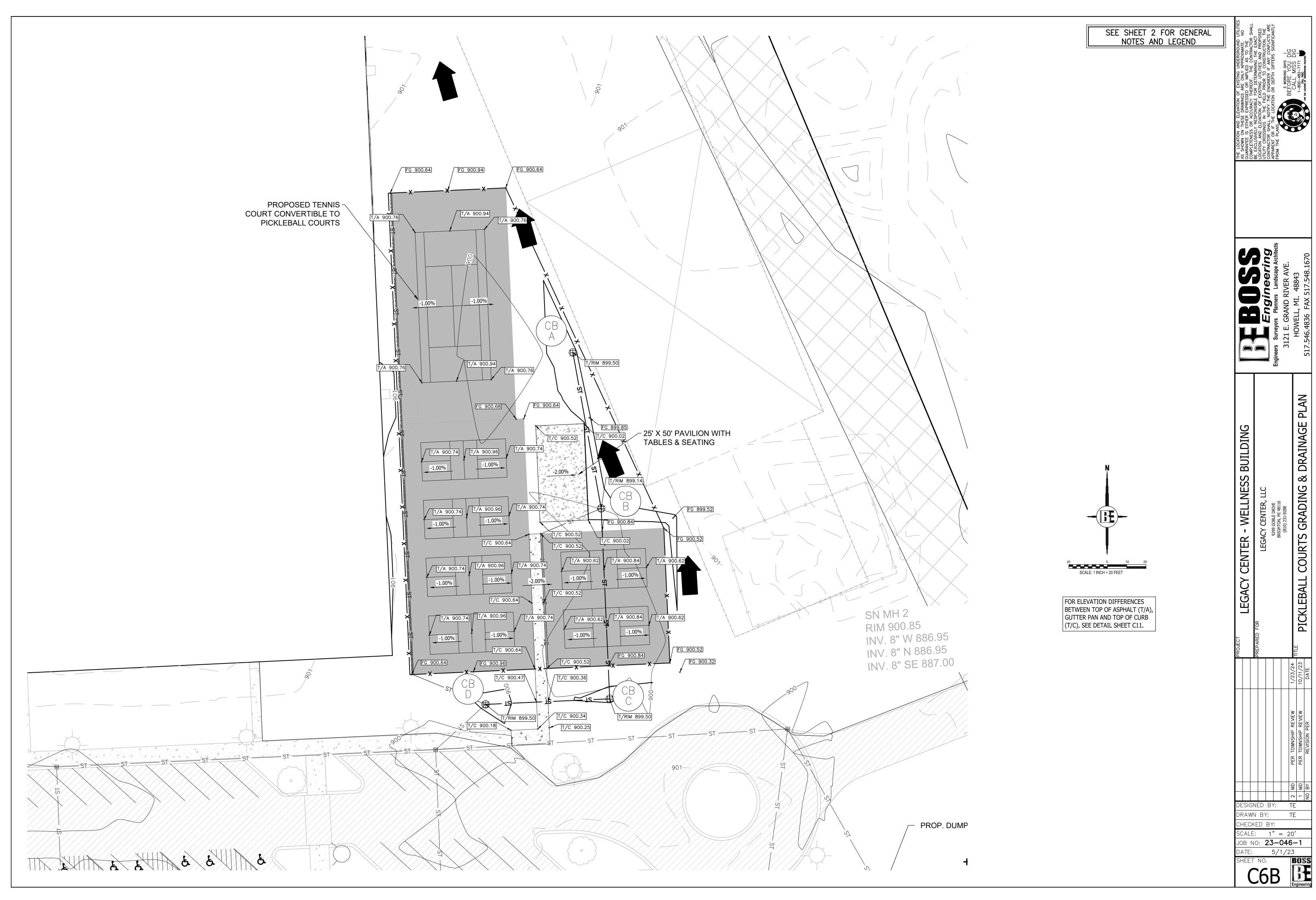
FOR ELEVATION DIFFERENCES

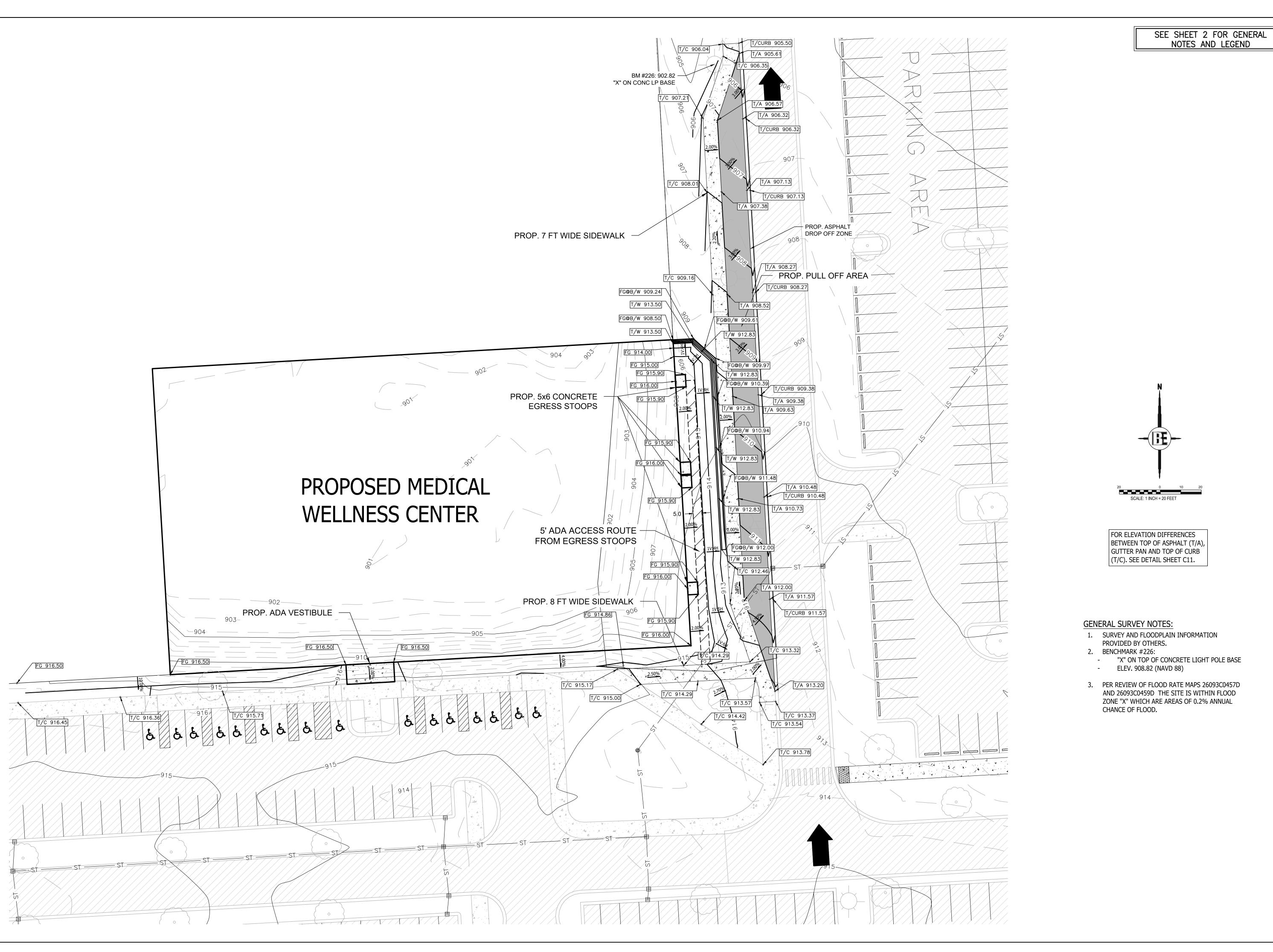
BETWEEN TOP OF ASPHALT (T/A), GUTTER PAN AND TOP OF CURB

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LEGACY CENTER -	LEGACY	526	BRIG	8)		DARKING I OT GRA	
PROJECT	PREPARED FOR				71 IT IT		
					1/23/24	10/11/23	DATE
					PER TOWNSHIP REVIEW	PER TOWNSHIP REVIEW	REVISION PER
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DATE				1/2			
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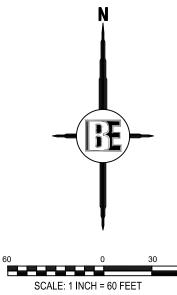
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SCALE: 1" = 20'

JOB NO: **23-046-1**

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THE LAS SHOWN SUN SHOWN SHOWN

HYDRAULIC GRADIENT BASIS: THE H.G. IS BASED ON FLOW THROUGH THE PIPE COMPARED TO THE CAPACITY OF THE PIPE. IF FLOW IS LESS THAN 80% OF THE CAPACITY THEN H.G. WOULD BE SET AT THE $\frac{8}{10}$ POINT OF THE PIPE. IF FLOW IS GREATER THAN 80% OF THE CAPACITY THEN H.G. IS BASED ON THE FORMULA $(V/(1.49/n)*(D/48)^{(\frac{2}{3})})^2$ WHERE V IS THE VELOCITY FLOWING FULL AND D IS THE PIPE DIAMETER.

THE ULTIMATE DISCHARGE POINT IS LOCATED NORTH OF THE SOCCER FIELDS AND WAS DESIGNED TO HANDLE THE ENTIRE SITE BEING DEVELOPED. THERE ARE TWO FOREBAYS AND THE DETENTION BASIN RELEASES TO THE WETLANDS

- PREFABRICATED BAR SCREEN SHALL BE USED ON ALL STORM OPENINGS 18 INCHES IN DIAMETER AND LARGER.
- CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.

S
S
СС
cc
cc
PIPE
NAME A-B
B-C C-D
G-F F-E

12" INV IN = 897.48

24 LF

UTILITY QUANTITIES

STORM SEWER

MANHOLE STRUCTURE

SANITARY GREASE TRAP

STRUCTURE (CATCH BASIN OR MANHOLE)

8" PVC SDR 26 SANITARY SEWER PIPE

6" PVC SDR 23.5 SANITARY SEWER LEAD

3.66

3.71

2.35

3.54

2.71

3.40

O'SUMP

END

END

END

0.51 896.79 895.96 899.14 899.50 895.43 894.94

0.33 895.96 895.41 899.50 899.50 894.94 894.61

0.31 899.12 898.28 902.72 902.07 898.32 897.48

END

END

COEFFICIENT

0.013

0.013

0.013

CAPACITY (FT/SEC)

3.22

4.55

2.53

2.53

2.53

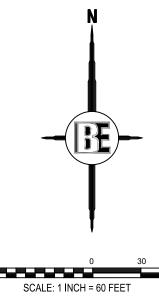
3.57

SANITARY SERVICE

12" ADS HP

SANITARY S	STRUCTURE TABLE
STRUCTURE	STRUCTURE DETAILS
MH 2 48Ø COVER TYPE 'A'	RIM = 900.60 8" INV OUT = 887.00
MH 3 48Ø COVER TYPE 'A'	RIM = 901.72 8" INV IN = 888.62 8" INV OUT = 888.72
MH 4 48Ø COVER TYPE 'A'	RIM = 907.34 8" INV IN = 889.84 8" INV OUT = 889.94

	PIPE TABLE										
PIPE NAME	SIZE	LENGTH	SLOPE								
	PICKLEBA	LL COURT									
A-B	12"	82'	0.50%								
B-C	12"	99'	0.50%								
C-D	12"	64'	0.50%								
	PARKIN	NG LOT									
G-F	12"	248'	1.00%								
F-E	12"	84'	1.00%								



NORTH OF BASIN.

STORM SEWER NOTES:

- - CONTRACTOR SHALL ADJUST EXISTING MANHOLE COVERS, AS REQUIRED.

ı				ADLE	
		PIPE NAME	SIZE	LENGTH	SLOPE
			PICKLEBA	LL COURT	
		A-B	12"	82'	0.50%
		B-C	12"	99'	0.50%
		C-D	12"	64'	0.50%
			PARKIN	NG LOT	
		G-F	12"	248'	1.00%
		F-E	12"	84'	1.00%
	,				

COVER

0.83

	S SUBTICE 127	666	M wm				
WM	RIM 899.24 RIM 899.97 RINV. 24" NW 893.52 RINV. 18" S 893.17 RINV. 12" W 893.27 RINV. 10" E 894.57	WM ST CB 126 RIM 899.32 INV. 12" N 894.87	ST CB 141 RIM 900.51 INV. 15" SW 895.71 INV. 15" E 895.21				
33.38	CNI	ST HM 1 RIM 900. INV. 15" INV. 15"	41A 45 S 896.05 NE 895.95 ST CB 140 RIM 900.34 INV. 15" W 895.14				
			INV. 15" W 895.14 INV. 15" NE 895.04	RIM 900.02 RIM 900.02 INV. 32" S 893.72 INV. 18" SE 894. X INV. 12" SW 893.62 INV. 36" N 893.77	ST CB 124 RIM 200.29		
893.48 S 1		ST CB 109 RIM 900.4' INV. 12" S	98 BEEHIVE # 1 PAIN A TE 1 P		INV. 12" SE 895.79 INV. 11" NW 895.29		ST0 12"
SN SN		INV. 15" N	BEEHIVE BEEHIVE		MH 3 RIM 901.72 INV. 8" NW 888.62		\$\text{SA} \ 8"
CB 129 M 900.51 V. 18" N 894.51 V. 18" E 894.61		ST CB 109A RIM 901.79 INV. 12" NE 8 INV. 12" N 8		S	ST		6" MAN SAN
SN SN			97.74 97.74				
*					ST MH 125 RIM 903.00 INV. 12" E 899.75		
				ST CB 110	Zo A		
X				INV. 18" SW 895.97 INV. 18" SE 895.87 INV. 32" N 895.47			
					5	CB C	
		PROPOSED MEDICAL WELLNESS CENTER	" SANITARY SEWER	\$N SN SN ST CB 1111	SN ————————————————————————————————————		
			AD & GREASE TRAP	RIM 911.06 INV. 18" W 903.56 INV. 18" NE 903.46			
		4" DOMESTIC LEAD – 8" FIRE SUPPRESSION	INV. 18"	993.81			
+			ST CB 214 RIM 912.92 INV. 18" NE 905.02 INV. 18" S 905.02		ST 188 118 7 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	ST CB 206 RIM 913.27	ST CB 210 RIM 913.42 INV. 12" S 908.87	ST CB 213 RIM 913.41 INV. 18" N 905.36 INV. 12" S 908.16 INV. 18" W 905.36	ST CB 120 RIM 912.83 INV. 18" N 899.93 INV. 15" SE 900.43	INV 18" S 899.57		
1	ST CB 205 ST CB 205 RIM 913.26	SILM 913/52 RIM 913/52 RIM 913/52 INV. 12" N 908.32	ST CB 212 RIM 913.31	INV. 18" N 899.93 INV. 15" SE 900.43			
FROM TO	RUNOFF EQUIV. DRAIN ACRES COEFF AREA INTEN		PIPE VELOCITY HYDRA DIA. FLOWING GRAD	IVI A KIKIIKI =			ERT INVERT PER LOWER D

INV. 8" W 886.95 INV. 8" N 886.95

PICKLEBALL

0.33

0.02

0.19

0.47

0.22

0.87

4.33

4.28

Q

2.37

(LF)

99

84

(IN)

12

FULL (FPS)

SLOPE %

0.84%

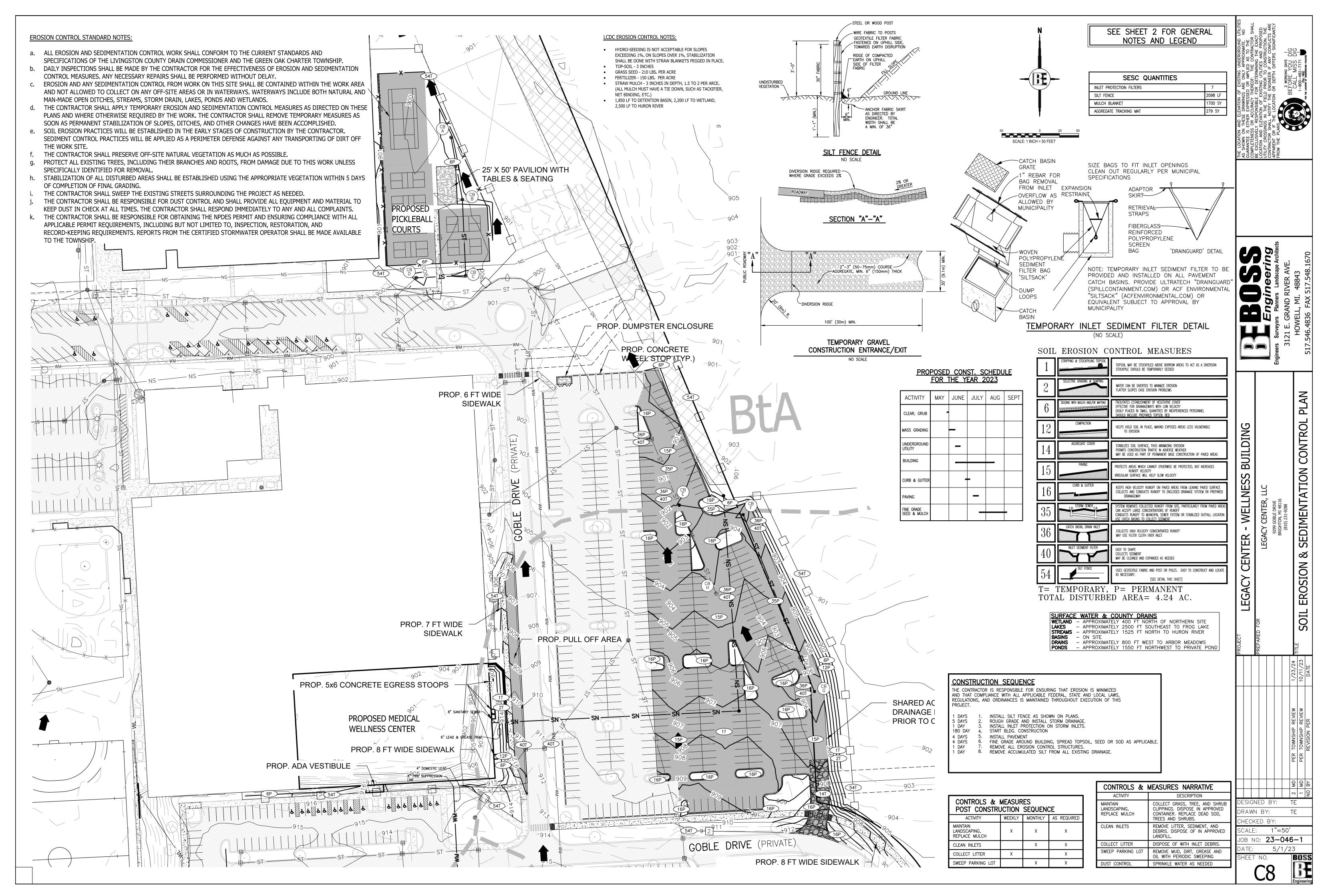
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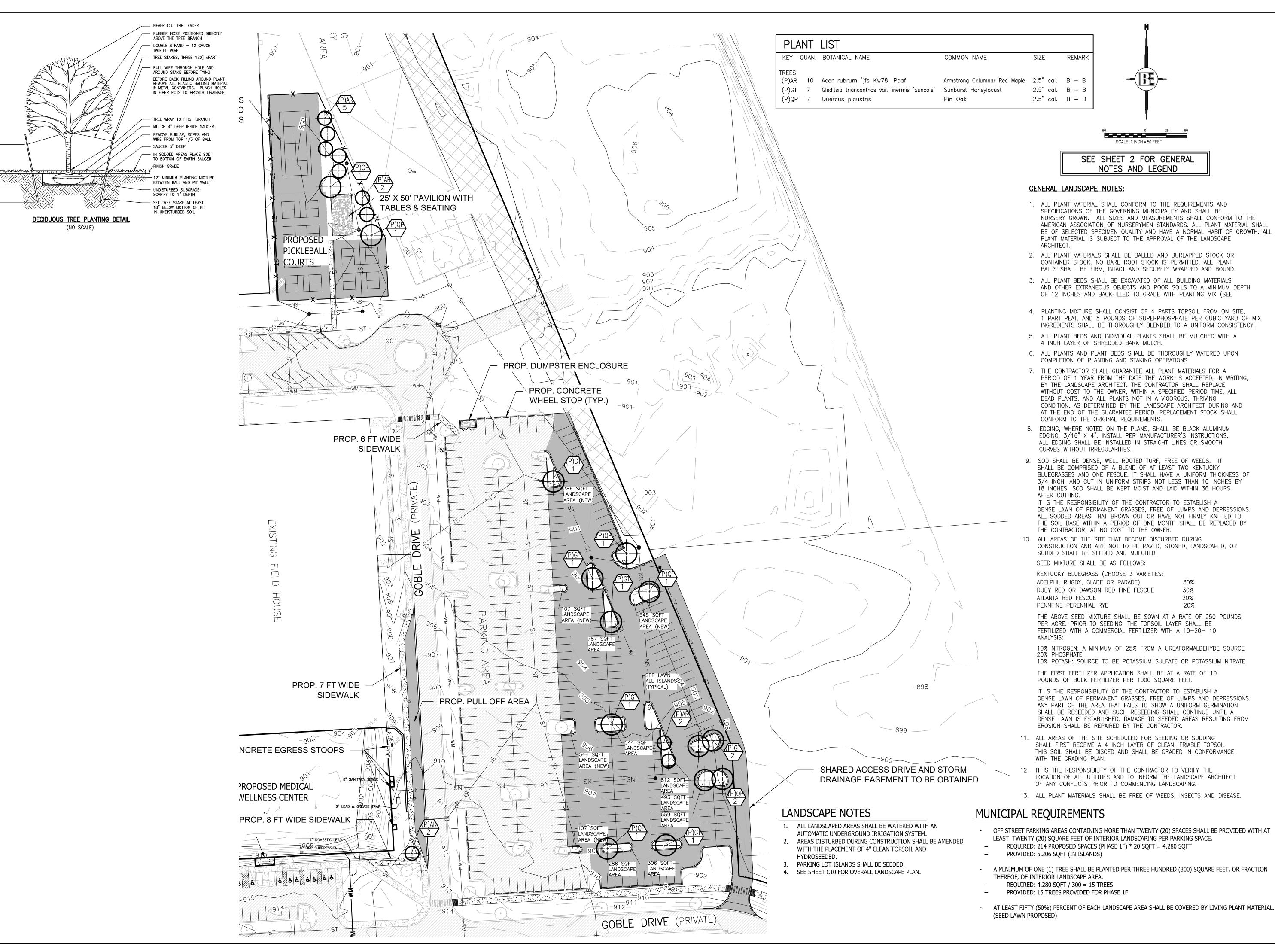
0.50%

1.00%

1.00%

RIM 901.05 INV. 12" N 892.59 INV. 8" S 892.59 INV. 6" SW 892.59





SHOWN ON THESE DRAWINGS ARE ONLY APPROXIMATE. NO RANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE PLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL ATTON AND ELEVATION OF EXISTING UTILITIES AND PROPOSED ITY CROSSINGS IN THE FIELD PRIOR TO CONSTRUCTION. THE TRACTOR SHALL NOTIFY THE ENGINEER IF ANY CONFLICTS ARE ARENT OR IF THE LOCATION OR DEPTH DIFFERS SIGNIFICANTLY AND THE PLANS.

3 WORKING DAYS

1 - 800 - 482 - 7171

1 - 800 - 482 - 7171

1 - 800 - 482 - 7171

1 - 800 - 482 - 7171

Engineering
Surveyors Planners Landscape Architects
121 E. GRAND RIVER AVE.
HOWELL, MI. 48843
546,4836, FAX 517,548,1670

Engineers Surveyors Plan
3121 E. GRAN
HOWELL, I

LEGACY CENTER, LLC
9299 GOBLE DRIVE
BRIGHTON, MI 48116
(810) 231-9288

SITE LANDSCAPE PLAN

LEGACY CENTER

PREPARED FOR LEGA

MD PER TOWNSHIP REVIEW 1/2
MD PER TOWNSHIP REVIEW 10/

DESIGNED BY: TE

ORAWN BY: PC

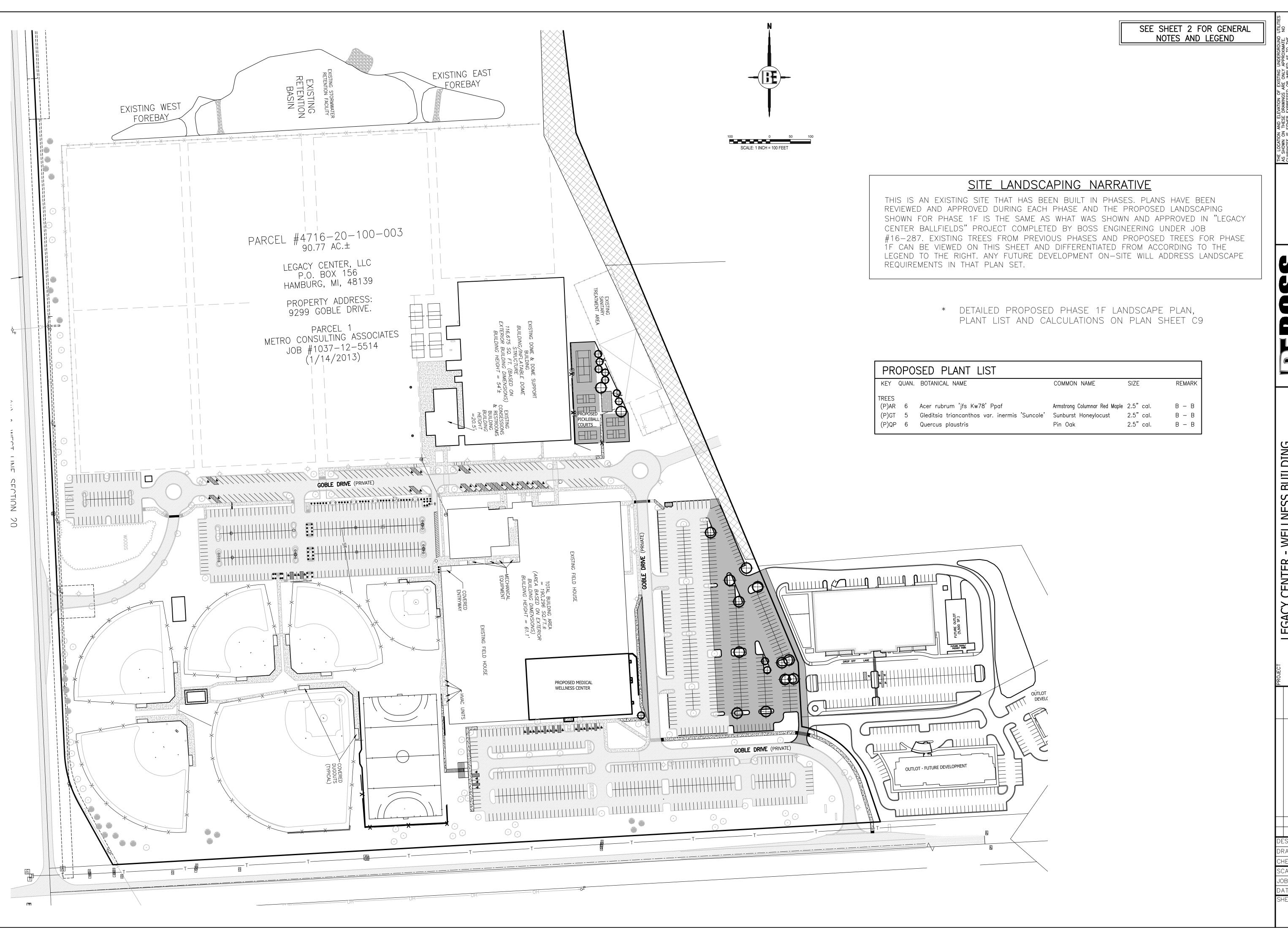
CHECKED BY:

SCALE: 1"=50'

JOB NO: **23-046-1**

5/1/23

SHEET NO.



THE LOCATION AND ELEVATION OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE DRAWINGS ARE ONLY APPROXIMATE. NO GUARANTEE IS ETHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT LOCATION AND ELEVATION OF EXISTING UTILITIES AND PROPOSED UTILITY CROSSINGS IN THE FIELD PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY CONFLICTS ARE APPARENT OR IF THE LOCATION OR DEPTH DIFFERS SIGNIFICANTLY FROM THE PLANS.

3 WORKING DAYS

3 WORKING DAYS

1-800-482-7171

1-800-482-7171

Engineering
seers Surveyors Planners Landscape Archit
3121 E. GRAND RIVER AVE.
HOWELL, MI. 48843

LEGACY CENTER, LLC
9299 GOBLE DRIVE
BRIGHTON, MI 48116
(810) 231-9288

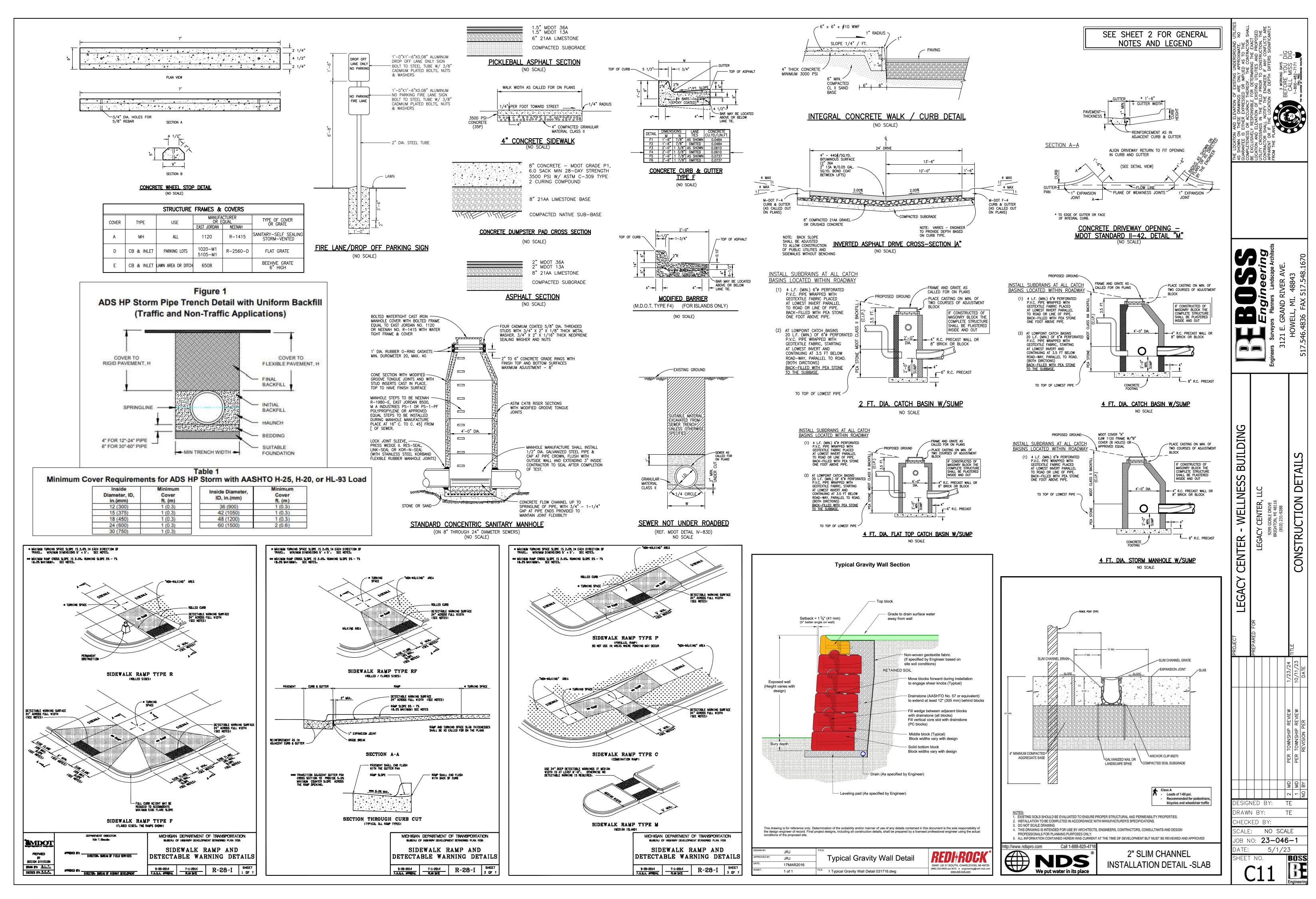
FOR LEGACY 9299 BRIGH (81)

PER TOWNSHIP REVIEW 1/23/24 TITLE PER TOWNSHIP REVIEW 10/11/23

DESIGNED BY: TEDRAWN BY: POCHECKED BY:

SCALE: 1'' = 100'JOB NO: 23-046-1

C10



SEE SHEET 2 FOR GENERAL NOTES AND LEGEND

33.3 ACRES

25,503 CF

889.00

32.9 ACRES

28,880 CF

69.8 ACRES

535,446 CF

887.00

12,102 CF

894.69

899.00

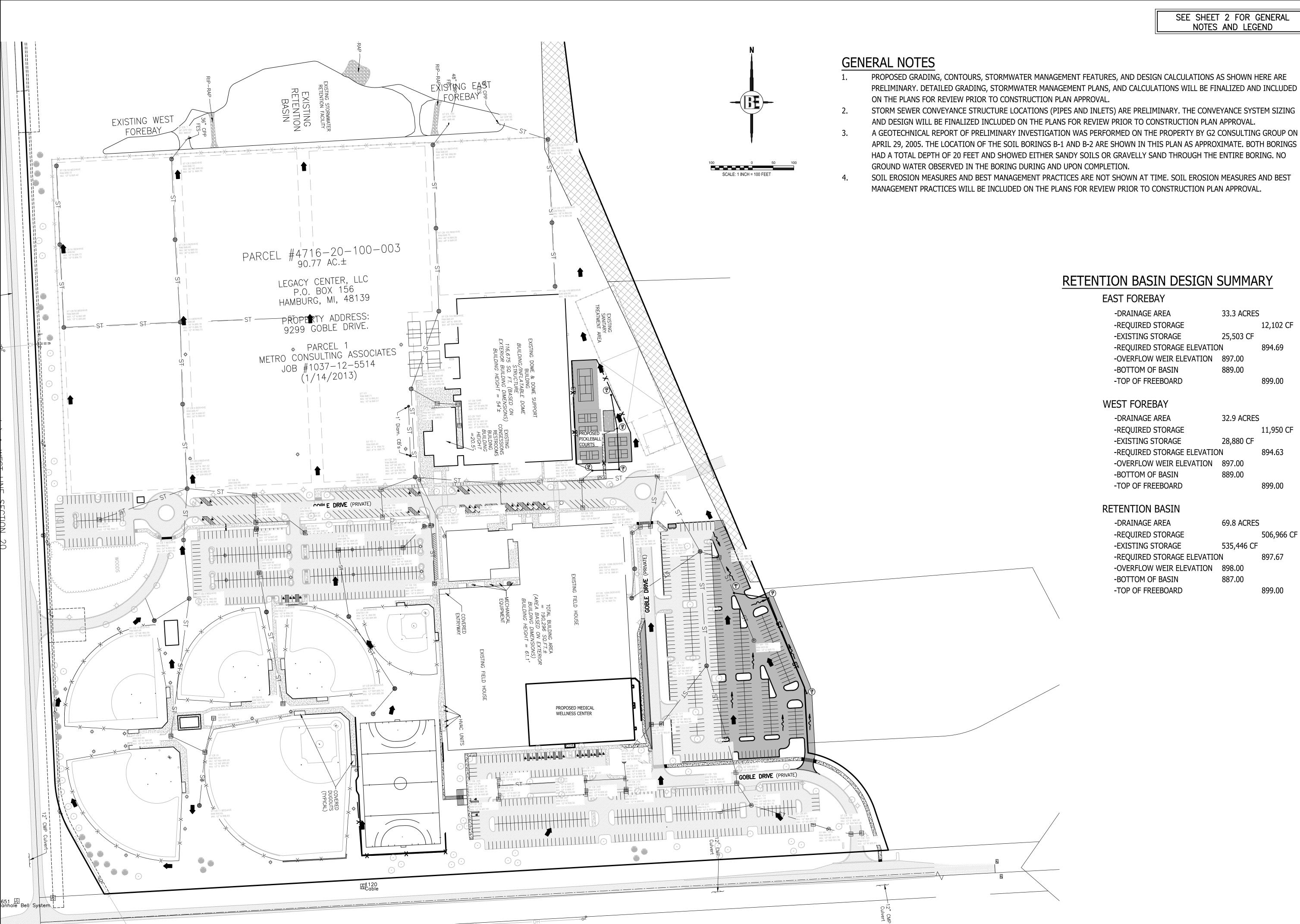
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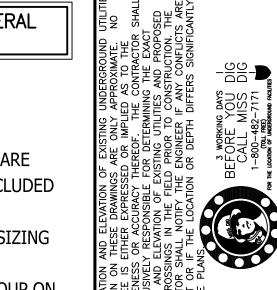
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897.67

899.00

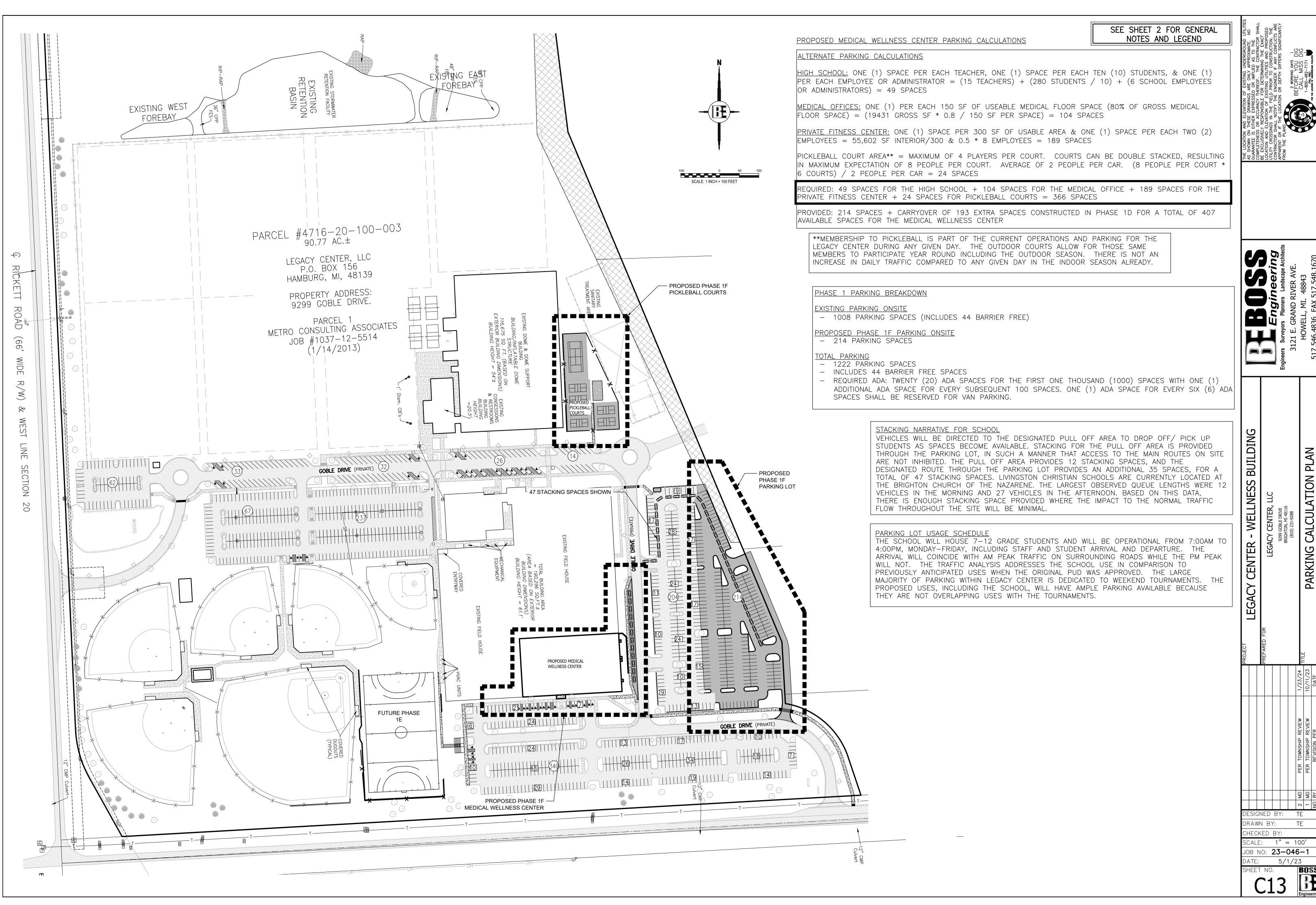
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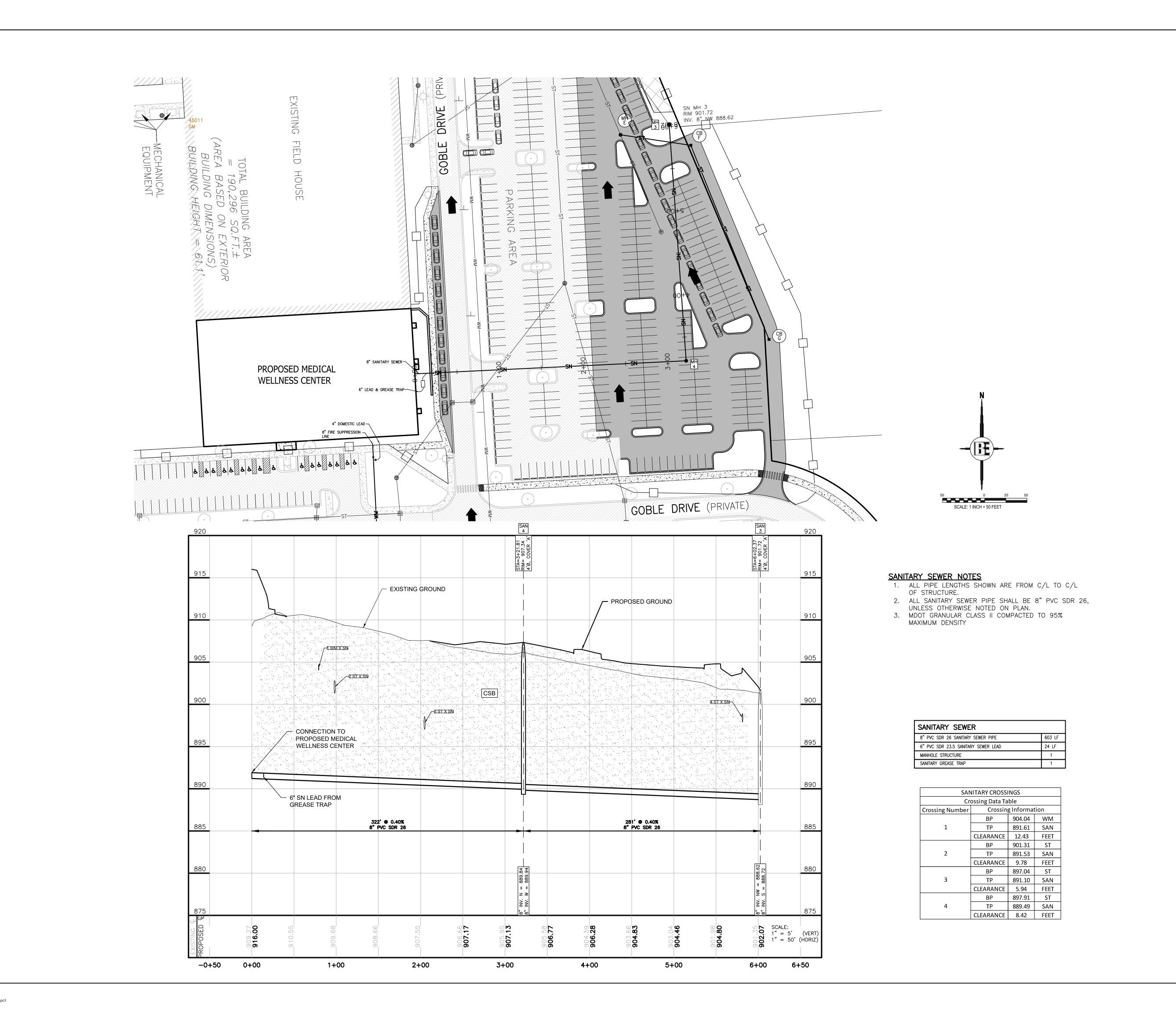




DRAWN BY:

HECKED BY: 1" = 100'DB NO: **23-046-1**





SANITARY

DESIGNED BY:

NL

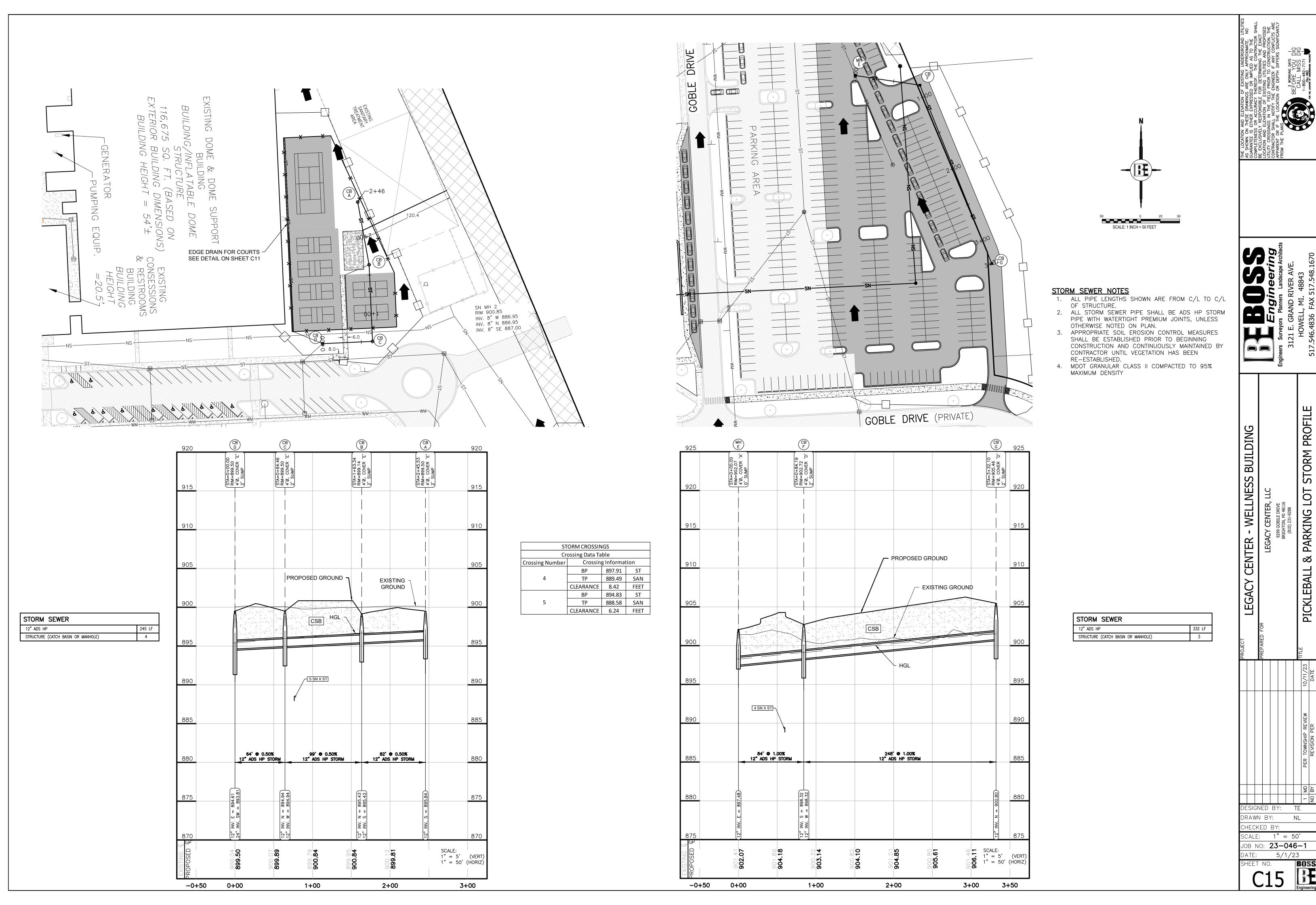
DRAWN BY:

CHECKED BY:

SCALE: 1" = 50'

JOB NO: **23-046-1**

5/1/23



SEE SHEET 2 FOR GENERAL NOTES AND LEGEND

LIGHTING NOTE:

PHOTOMETRIC PLAN WAS PREVIOUSLY DONE BY OTHERS UNDER PHASE 1C PLANS AND APPROVED BY GREEN OAK TOWNSHIP (SEE BOSS ENGINEERING JOB # 16-287). THE PLAN HAS BEEN UPDATED TO ACCOUNT FOR ADJUSTMENT IN LANDSCAPE FIXTURE HEIGHT OF 25' MATCHES OF PROPOSED PARKING LOT. EXISTING ACROSS THE SITE.

SEE SHEET 16A FOR WELLNESS CENTER PHOTOMETRIC PLAN.

SITE LIGHTING REQUIREMENTS FOR GREEN OAK TOWNSHIP

LIGHTING FOR USES ADJACENT TO NONRESIDENTIAL PROPERTIES SHALL BE DESIGNED AND MAINTAINED SO THAT ILLUMINATION LEVELS DO NOT EXCEED ONE (1) FOOTCANDLE AT OR BEYOND PROPERTY LINES.

PARKING LOT ILLUMINATION SHALL AVERAGE NO LESS THAN 0.9 FOOTCANDLES MINIMUM FOR 100+ SPACES.

MAXIMUM HEIGHT OF POLE FIXTURES SHALL BE TWENTY (20) FEET OR THE HEIGHT OF THE BUILDING WHICHEVER IS LESS.

GENERAL LIGHTING NOTES

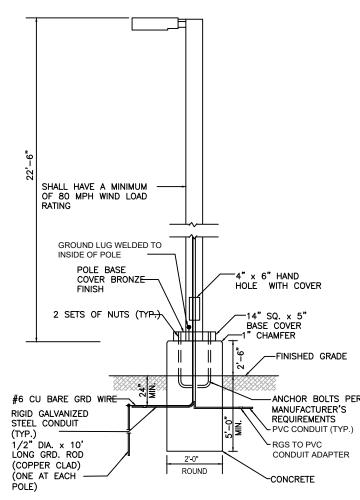
1. THE LIGHTING PATTERN REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY APPROVED METHODS. ACTUAL PERFORMANCE OF ANY MANUFACTURER'S LUMINAIRE MAY VARY DUE TO VARIATION IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER VARIABLE FIELD CONDITIONS.

SITE LIGHTING SUMMARY

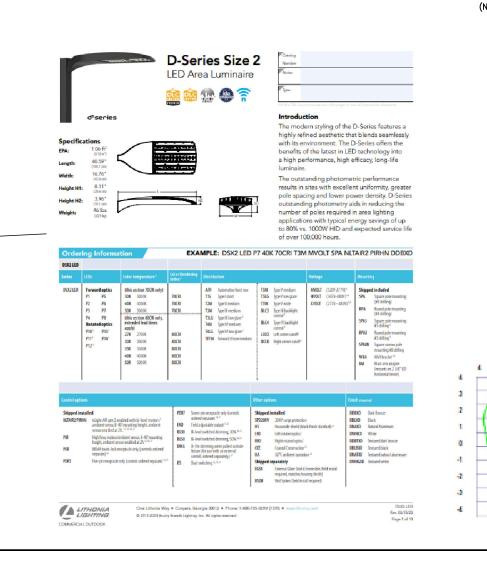
AVERAGE LIGHTING LEVEL: 0.9 FC MAXIMUM LIGHT LEVEL: 8.3 FC MINIMUM LIGHT LEVEL: 0.0 FC

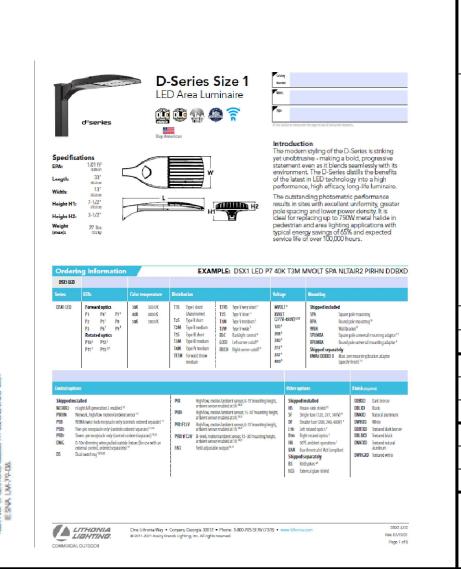
SYMBOL	LABEL	QTY.	DESCRIPTION	CATALOG NUMBER	LAMP	LUMENS	LLF	BASE HGT	POLE HGT	TOTAL HGT	
	А	10	DOUBLE-HEAD (2 FIXTURES EACH) LITHONIA LIGHTING D-SERIES SIZE 2 AREA LUMINAIRE P1 PERFORMANCE PACKAGE 3000K CCT 70 CRI TYPE 4 MEDIUM WITH HOUSESIDE SHIELD	DSX2 LED P1 30K 70CRI T4M HS	LED	ABSOLUTE	.93	2.5'	22.5'	25.0'	
\ominus	В	01	LITHONIA LIGHTING DSX2 LED P1 30K 70CRI T4M	EML17 GCF XT 63LED 350 mA 40K R2	LED	ABSOLUTE	.93	2.5'	22.5'	25.0'	

ALL IES FILES PROVIDED BY MANUFACTURER FOR CALCULATION OF LIGHTING LEVEL.



PARKING LOT FIXTURE DETAIL (TYP.)



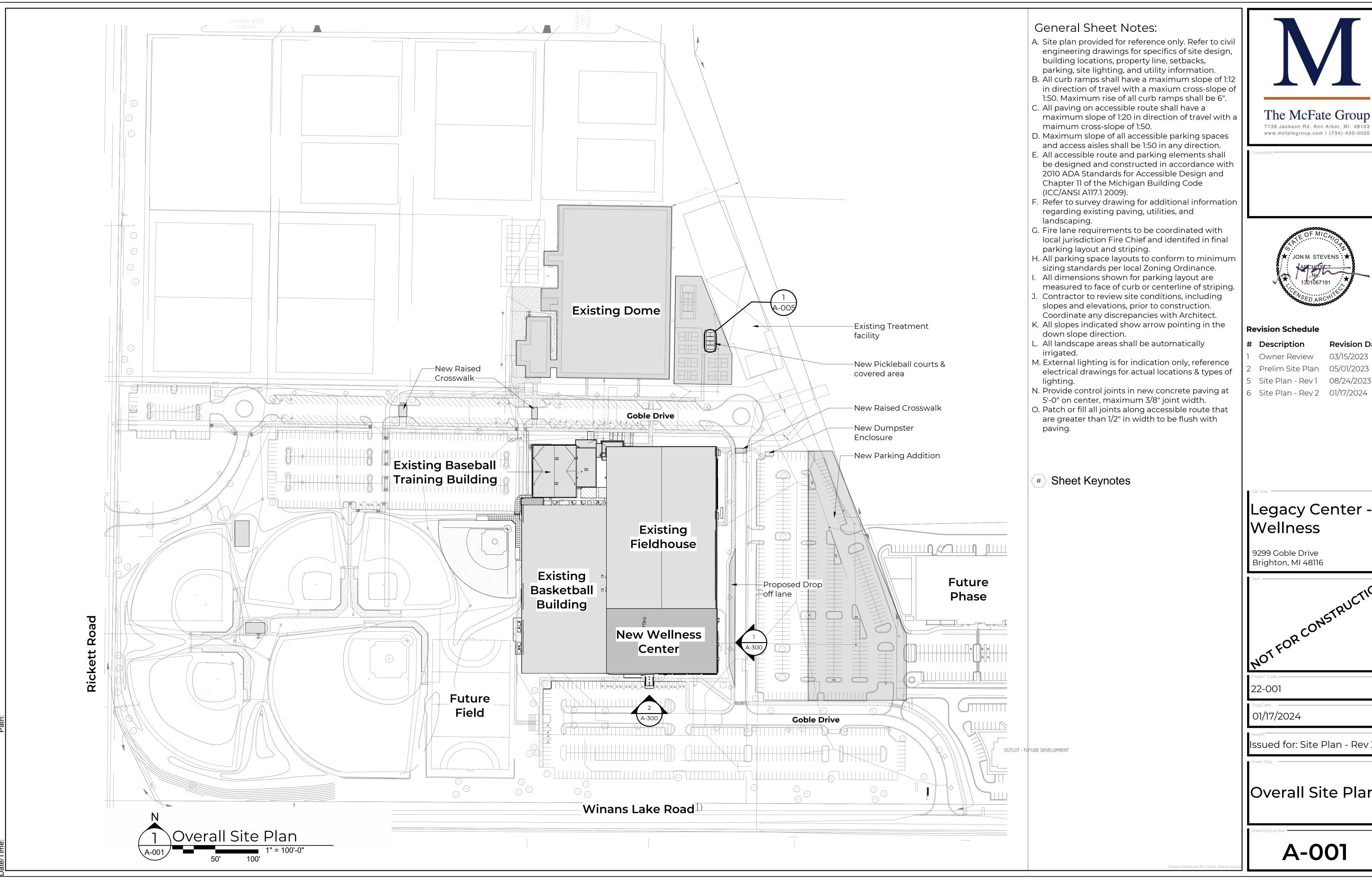




BUIL

RAWN BY: HECKED BY: 1" = 30' OB NO: **23-046-1**

G:\23-046\DWG\CP\23-046_Sheets_CP.dwg, 1/23/2024 2:54:58 PM, AutoCAD PDF (General Documentation).pc3







Revision Schedule

Description **Revision Date**

03/15/2023 Owner Review

Prelim Site Plan 05/01/2023 Site Plan - Rev 1 08/24/2023

S Site Plan - Rev 2 01/17/2024

Legacy Center -Wellness

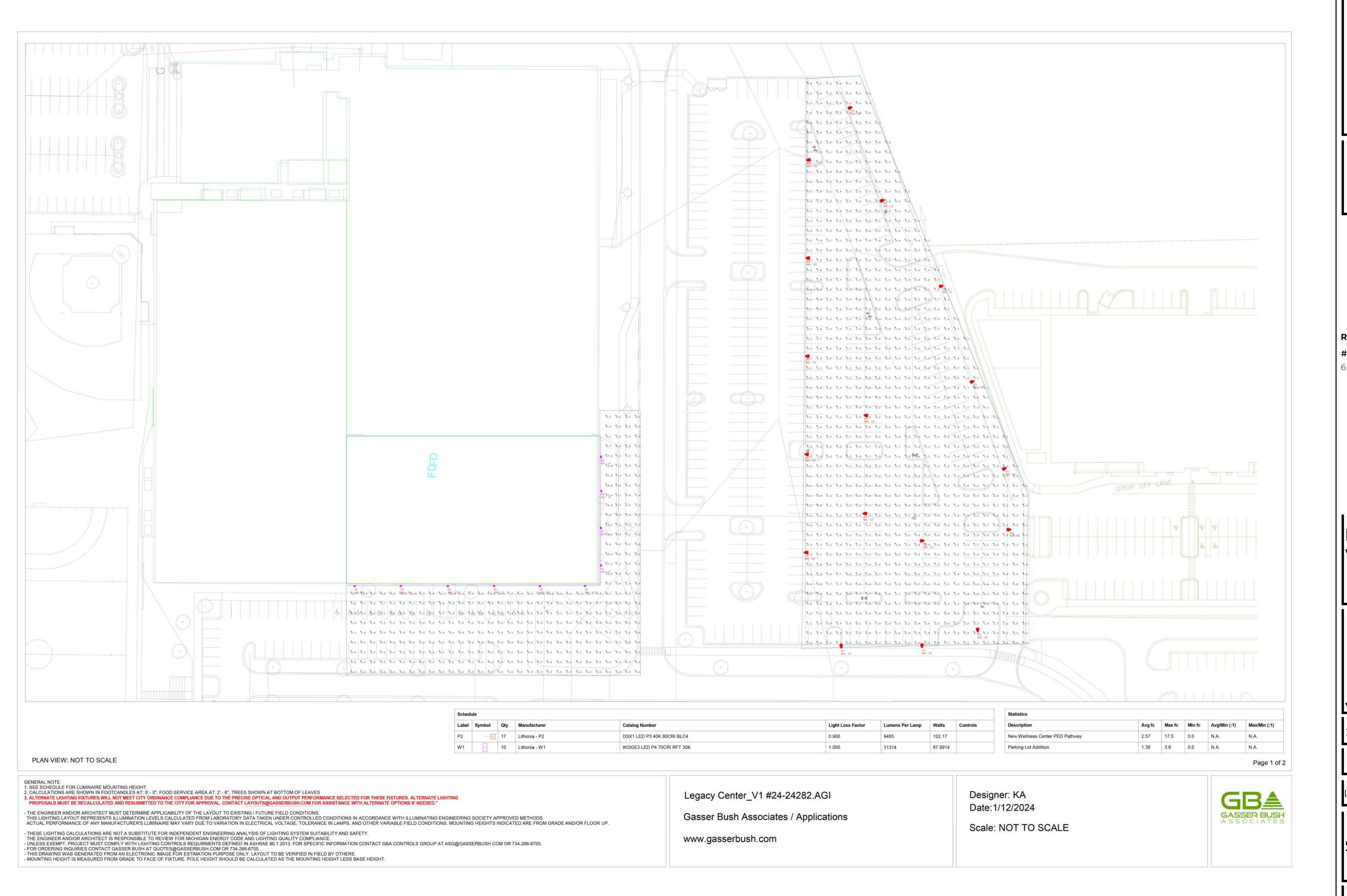
9299 Goble Drive Brighton, MI 48116

22-001

01/17/2024

Issued for: Site Plan - Rev 2

Overall Site Plan



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Revision Schedule

Description Revision Date
6 Site Plan - Rev 2 01/17/2024

Legacy Center -Wellness

9299 Goble Drive Brighton, MI 48116

NOT FOR CONSTRUCTION

22-001

01/17/2024

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neet Title: —

Site Photometric

A-002

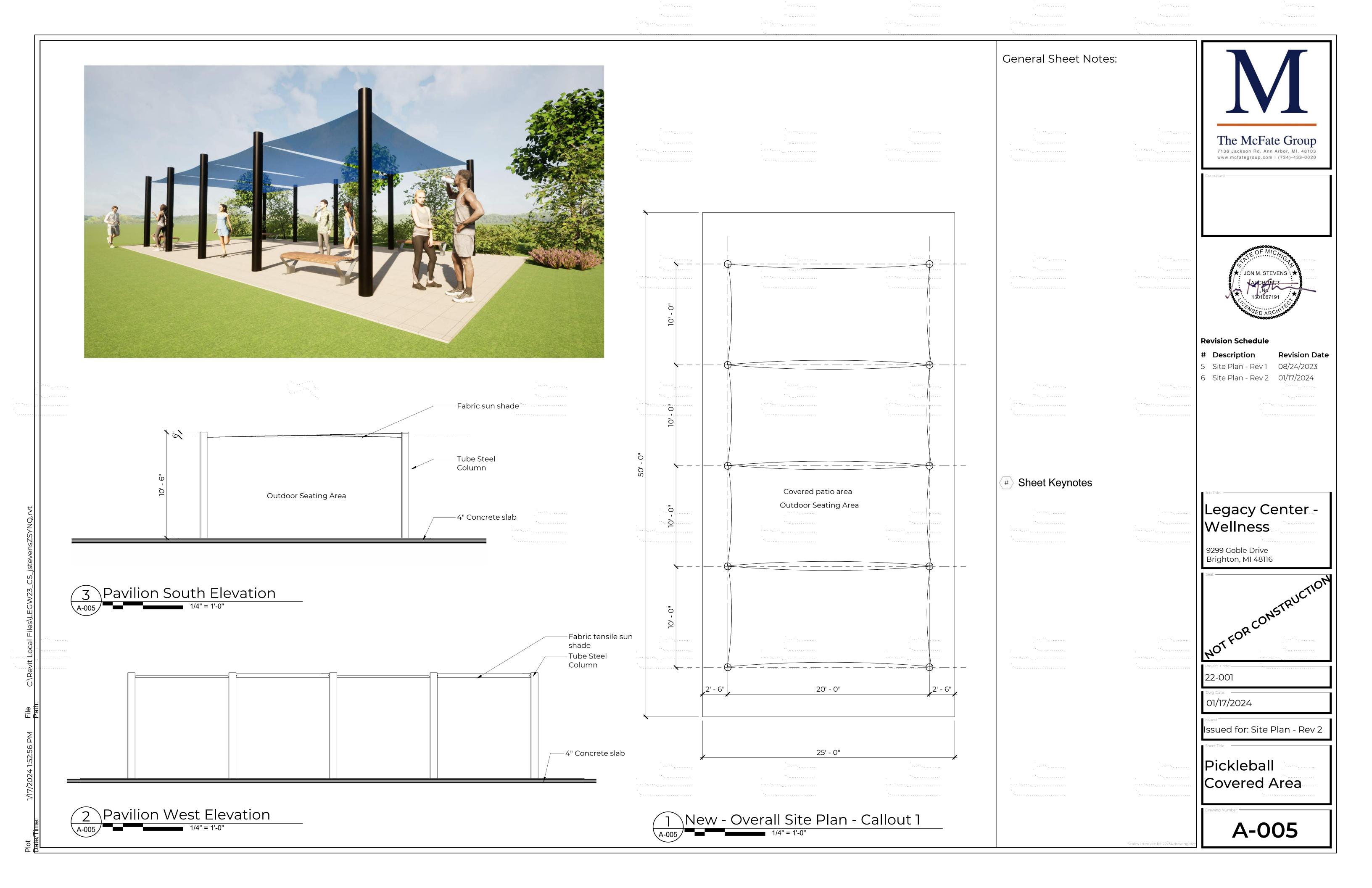
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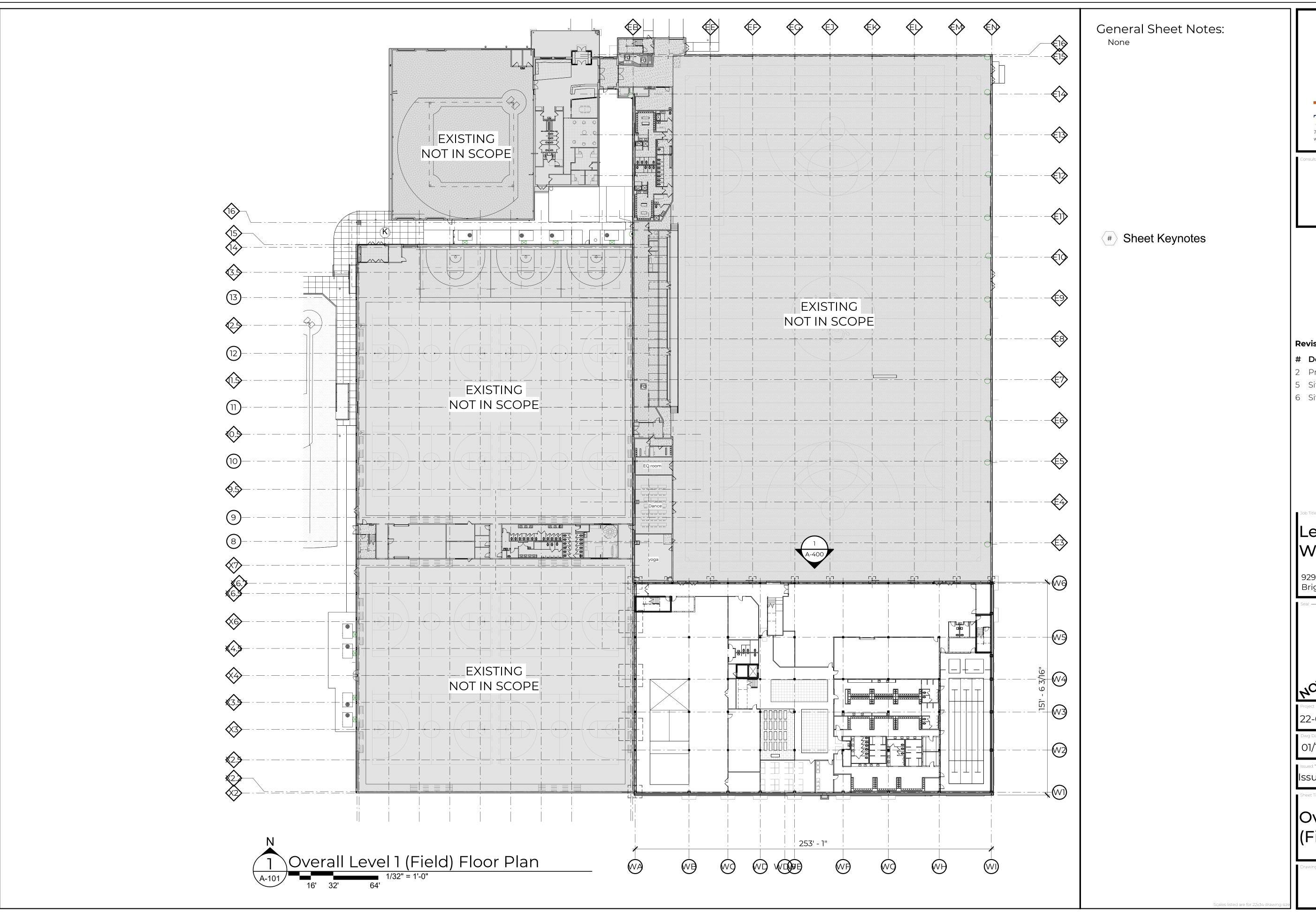
C:\Revit Local Files\LEGW23_CS_jstevensZSYN

PM File Path:

1/17/2024 1·52·50 PI

Plot





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Revision Schedule

Revision Date # Description

2 Prelim Site Plan 05/01/2023 5 Site Plan - Rev 1 08/24/2023

6 Site Plan - Rev 2 01/17/2024

Legacy Center -Wellness

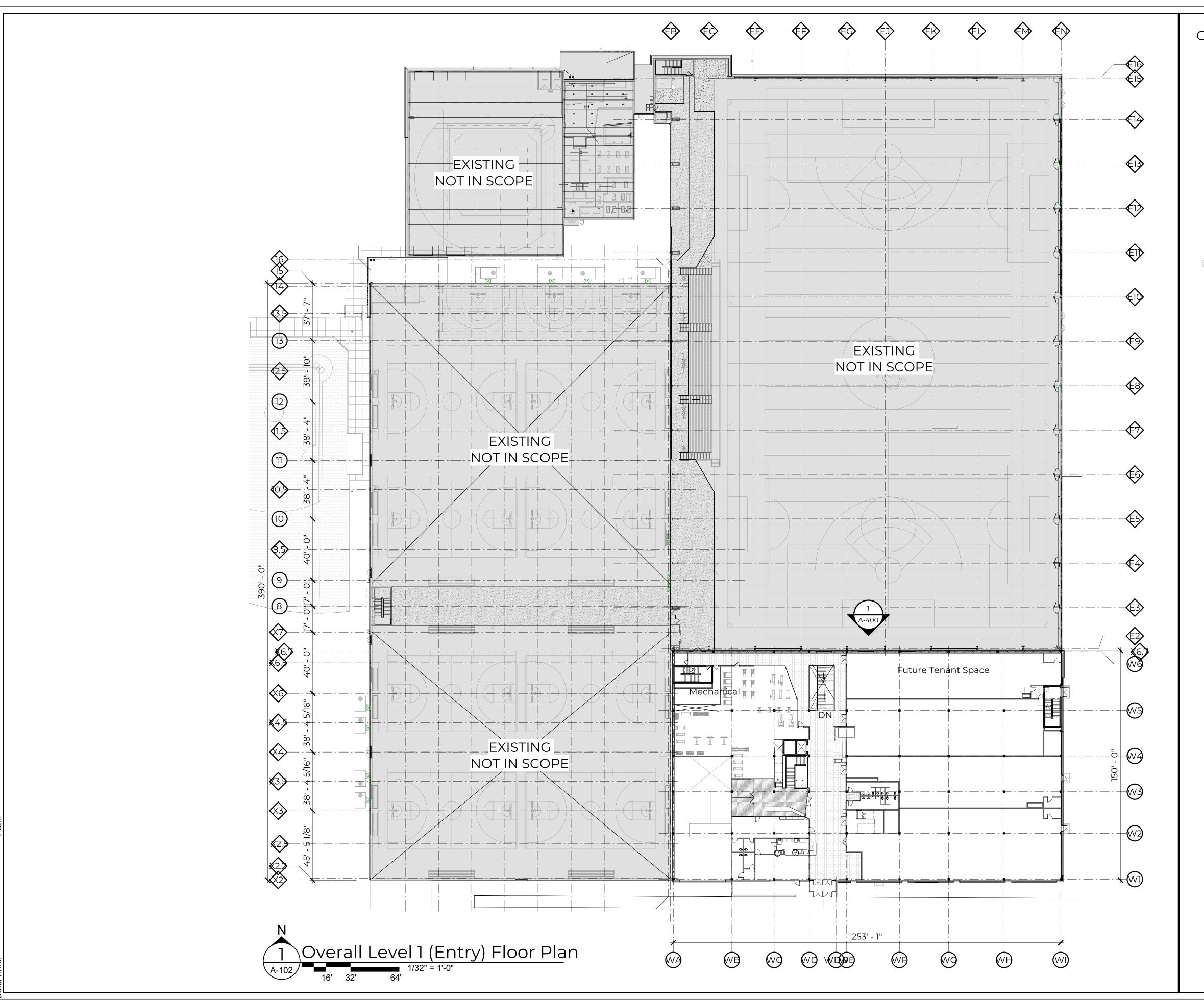
9299 Goble Drive Brighton, MI 48116

22-001

01/17/2024

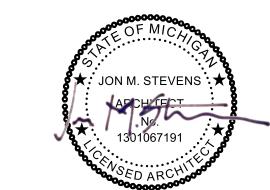
Issued for: Site Plan - Rev 2

Overall Level 1 (Field) Floor Plan



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Sheet Keynotes



Revision Schedule

Description

Revision Date

2 Prelim Site Plan 05/01/2023 5 Site Plan - Rev 1 08/24/2023

6 Site Plan - Rev 2 01/17/2024

Legacy Center -Wellness

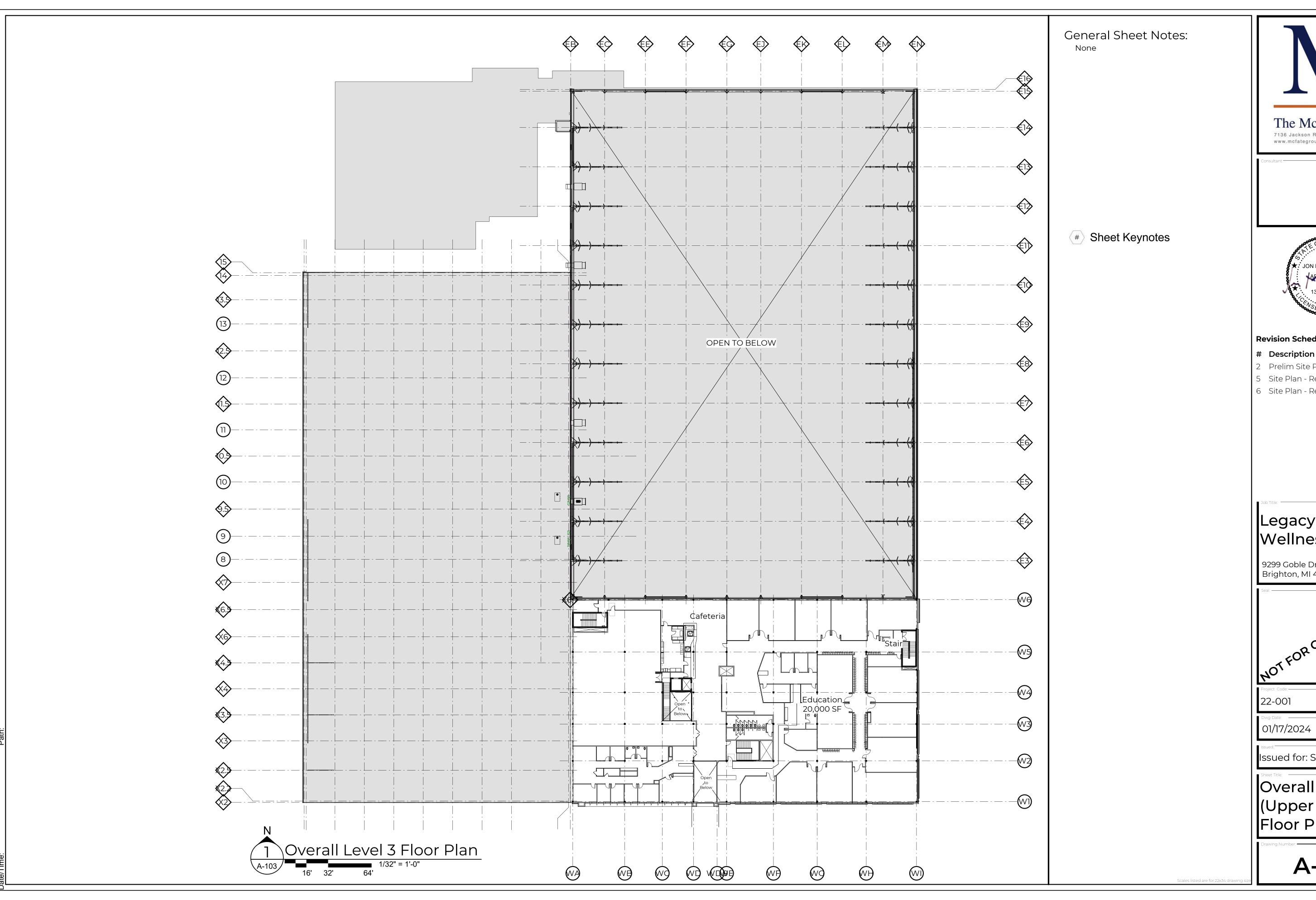
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22-001

01/17/2024

Issued for: Site Plan - Rev 2

Overall Level 2 (Entry) Floor Plan



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Revision Schedule

Revision Date # Description

2 Prelim Site Plan 05/01/2023 5 Site Plan - Rev 1 08/24/2023

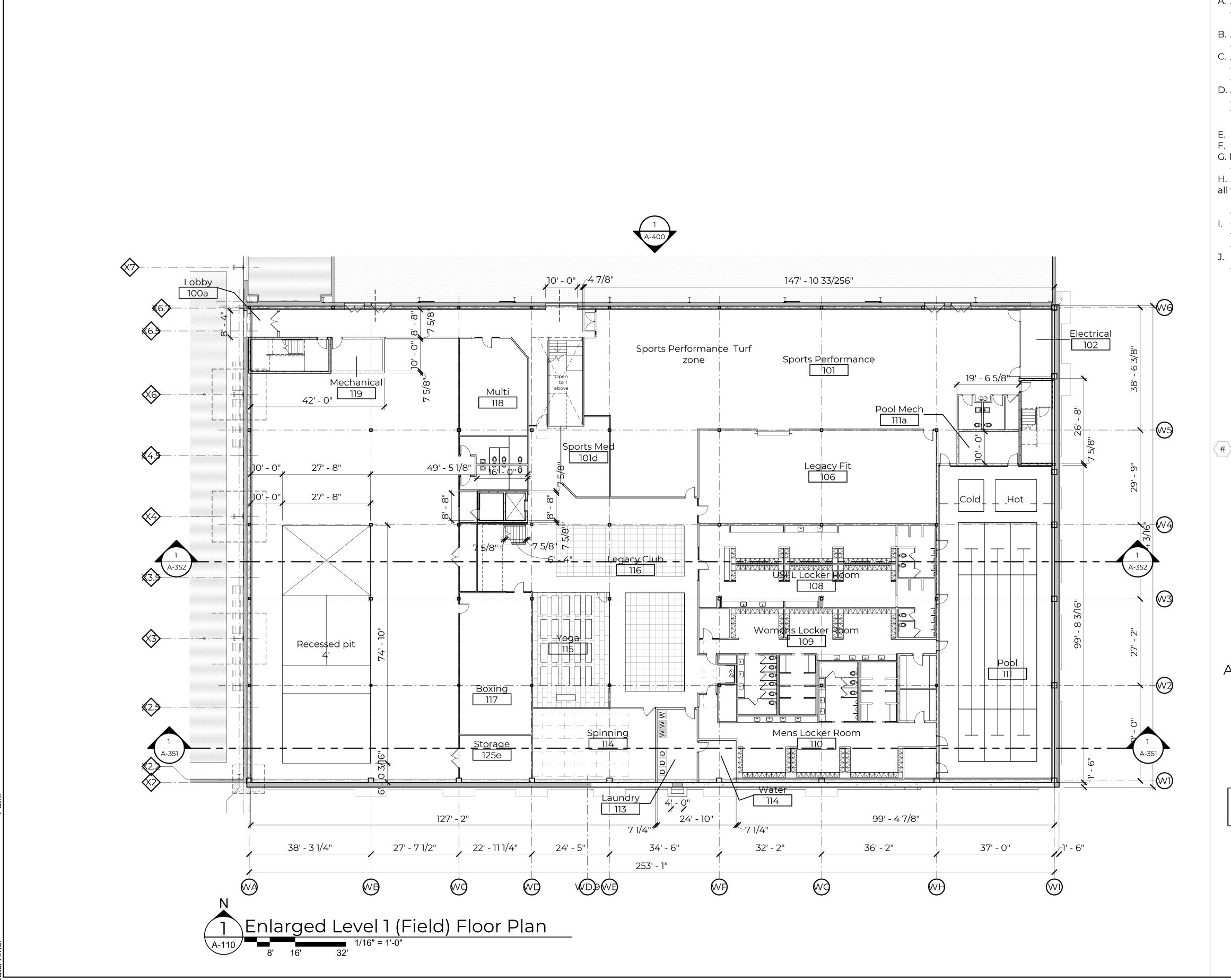
6 Site Plan - Rev 2 01/17/2024

Legacy Center -Wellness

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Issued for: Site Plan - Rev 2

Overall Level 3 (Upper Level) Floor Plan



- A. All dimensions to be verified in field prior construction. Notify architect of all discrepancies prior to starting work.
- B. All dimensions on plans are to face of finish face or column centerlines, U.N.O.
- C. All interior partitions to be type W1 unless noted otherwise. Refer to sheet A-800 for partition details.
- D. All interior door frames shall be located a distance of six inches from the throat return to the closest adjacent perpendicular partition, U.N.O.
- E. Refer to sheet A-700 for Door Schedule
- F. Masonry dimensions are nominal, U.N.O. G. Patch and paint all walls, gypsum board ceilings, soffits and bulkheads through-out.
- H. Provide solid blocking/backing in-wall cavities at all wall mounted equipment as indicated by
- project equipment list and per manufacturers detailed instructions.
- I. Coordinate all elevator shaft and pit dimensions with elevator manufacturer's approved shop drawings prior to construction.
- J. Provide furring wall type W-3 at all exposed columns unless otherwise noted.





Revision Schedule

Revision Date # Description

2 Prelim Site Plan 05/01/2023 5 Site Plan - Rev 1 08/24/2023

6 Site Plan - Rev 2 01/17/2024

Sheet Keynotes

Legacy Center -Wellness

Architectural Floor Plan Legend

New floor finish, see Room Finish Schedule.

1/hr. rated wall construction.

-

2/hr. rated wall construction.



Furniture system per tenant

Target Elevation

■ W-1

Wall type tag, refer to interior partition types

(101.1)

Door Tag, refer to Door Schedule



Align symbol

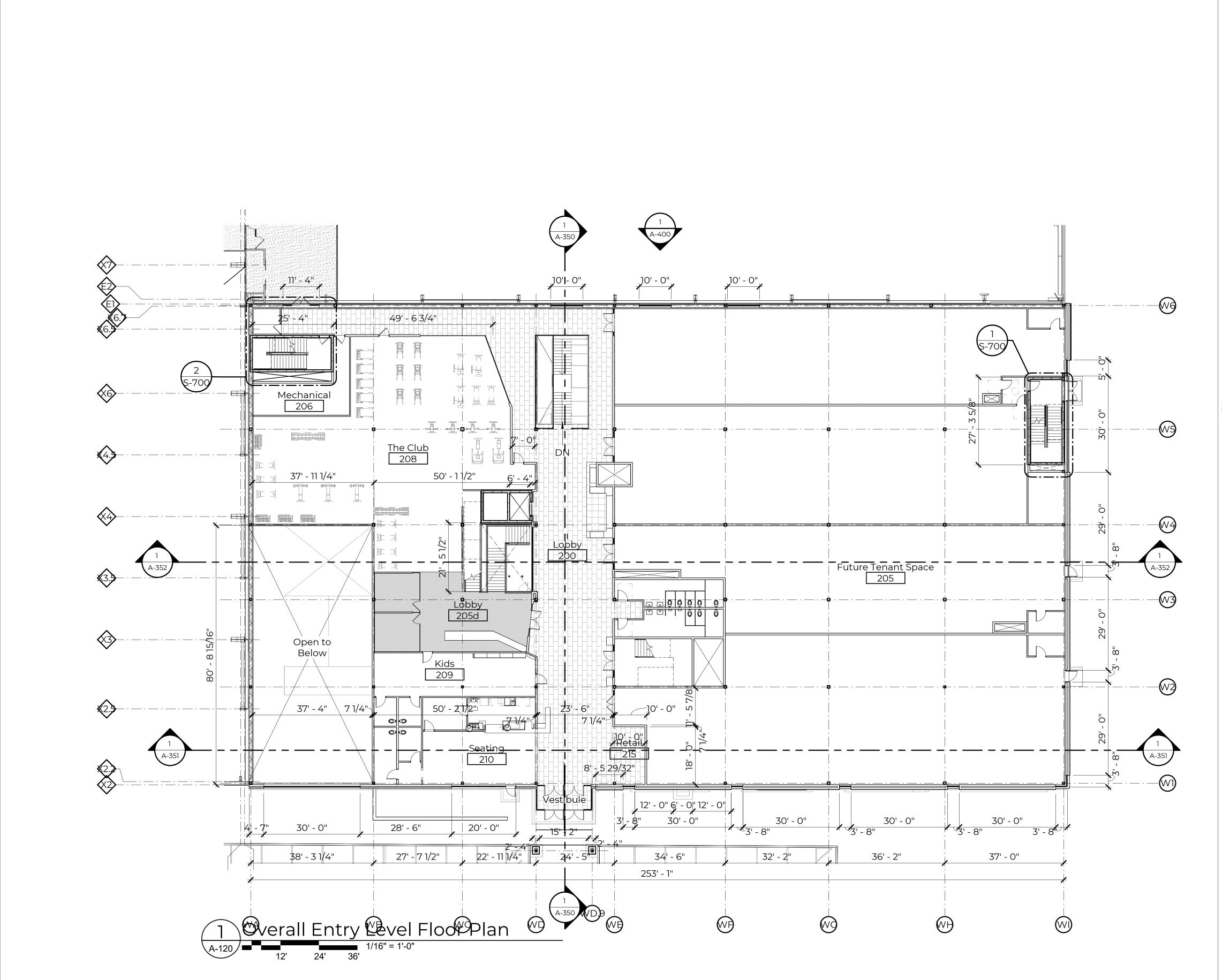
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22-001

01/17/2024

Issued for: Site Plan - Rev 2

Primary Level 1 Floor Plan



- A. All dimensions to be verified in field prior construction. Notify architect of all discrepancies prior to starting work.
- B. All dimensions on plans are to face of finish face or column centerlines, U.N.O.
- C. All interior partitions to be type W1 unless noted otherwise. Refer to sheet A-800 for partition details.
- D. All interior door frames shall be located a distance of six inches from the throat return to the closest adjacent perpendicular partition, U.N.O.
- E. Refer to sheet A-700 for Door Schedule
- F. Masonry dimensions are nominal, U.N.O. G. Patch and paint all walls, gypsum board ceilings, soffits and bulkheads through-out.
- H. Provide solid blocking/backing in-wall cavities at all wall mounted equipment as indicated by project equipment list and per manufacturers
- detailed instructions. I. Coordinate all elevator shaft and pit dimensions with elevator manufacturer's approved shop
- drawings prior to construction. J. Provide furring wall type W-3 at all exposed
- columns unless otherwise noted.





Revision Schedule

Description

Revision Date

2 Prelim Site Plan 05/01/2023 5 Site Plan - Rev 1 08/24/2023

6 Site Plan - Rev 2 01/17/2024

Sheet Keynotes

Legacy Center -Wellness

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22-001

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Target Elevation

Wall type tag, refer to interior partition types W-1

Door Tag, refer to Door Schedule 101.1

Architectural Floor Plan Legend

Room Finish

Schedule.

New floor finish, see

1/hr. rated wall construction.

2/hr. rated wall construction.

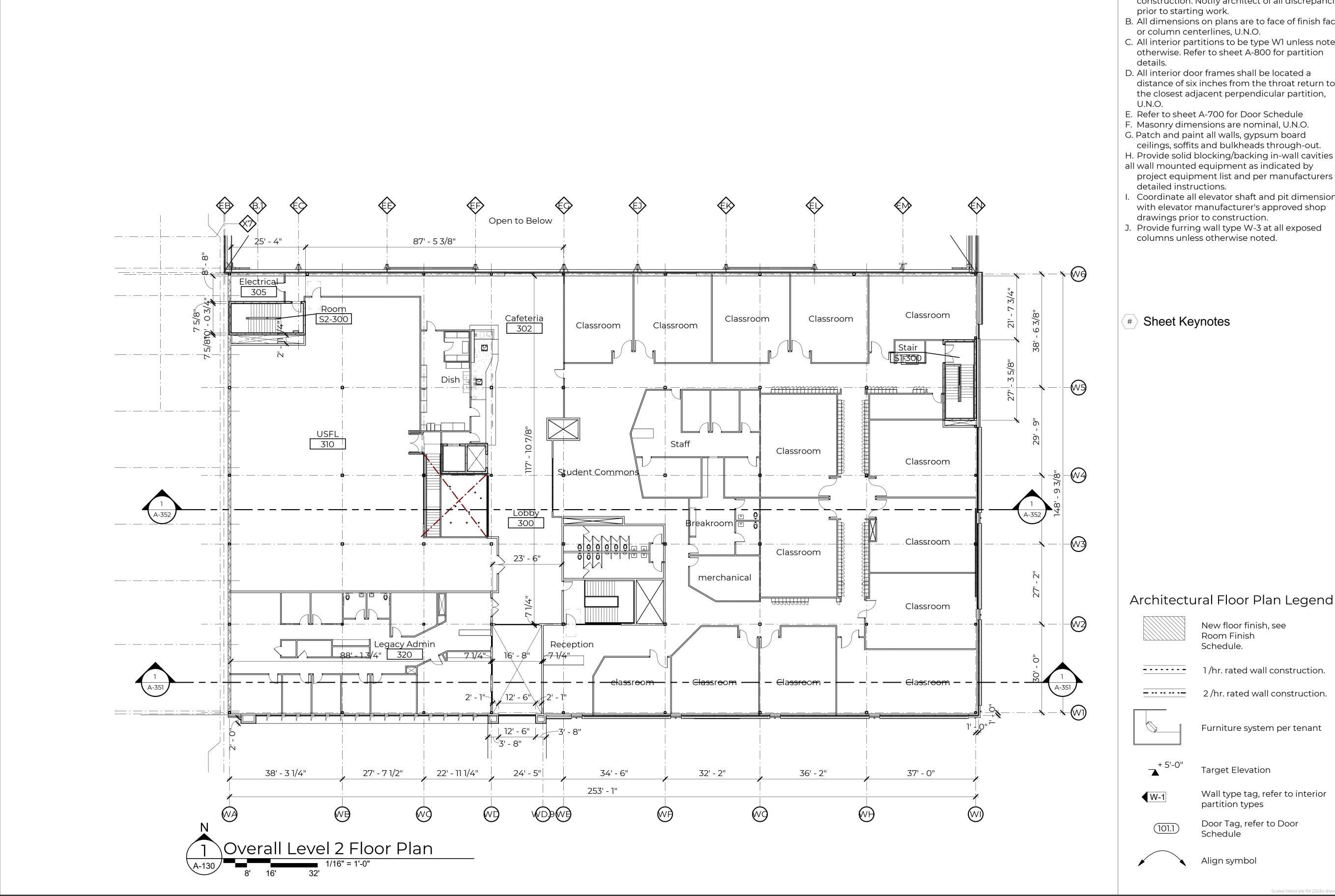
Furniture system per tenant

Align symbol

A-120

Primary Level 2

Floor Plan



- A. All dimensions to be verified in field prior construction. Notify architect of all discrepancies prior to starting work.
- B. All dimensions on plans are to face of finish face or column centerlines, U.N.O.
- C. All interior partitions to be type W1 unless noted otherwise. Refer to sheet A-800 for partition details.
- D. All interior door frames shall be located a distance of six inches from the throat return to the closest adjacent perpendicular partition, U.N.O.
- E. Refer to sheet A-700 for Door Schedule
- F. Masonry dimensions are nominal, U.N.O. G. Patch and paint all walls, gypsum board
- ceilings, soffits and bulkheads through-out.
- H. Provide solid blocking/backing in-wall cavities at all wall mounted equipment as indicated by project equipment list and per manufacturers
- detailed instructions. I. Coordinate all elevator shaft and pit dimensions with elevator manufacturer's approved shop drawings prior to construction.
- J. Provide furring wall type W-3 at all exposed columns unless otherwise noted.

New floor finish, see

1/hr. rated wall construction.

2/hr. rated wall construction.

Furniture system per tenant

Wall type tag, refer to interior partition types

Door Tag, refer to Door Schedule

Target Elevation

W-1

(101.1)

Room Finish

Schedule.

Sheet Keynotes



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Revision Schedule

Revision Date # Description

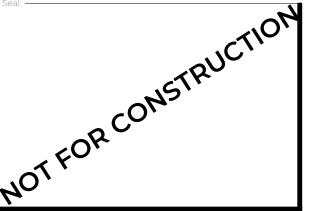
03/15/2023 Owner Review

2 Prelim Site Plan 05/01/2023 5 Site Plan - Rev 1 08/24/2023

6 Site Plan - Rev 2 01/17/2024

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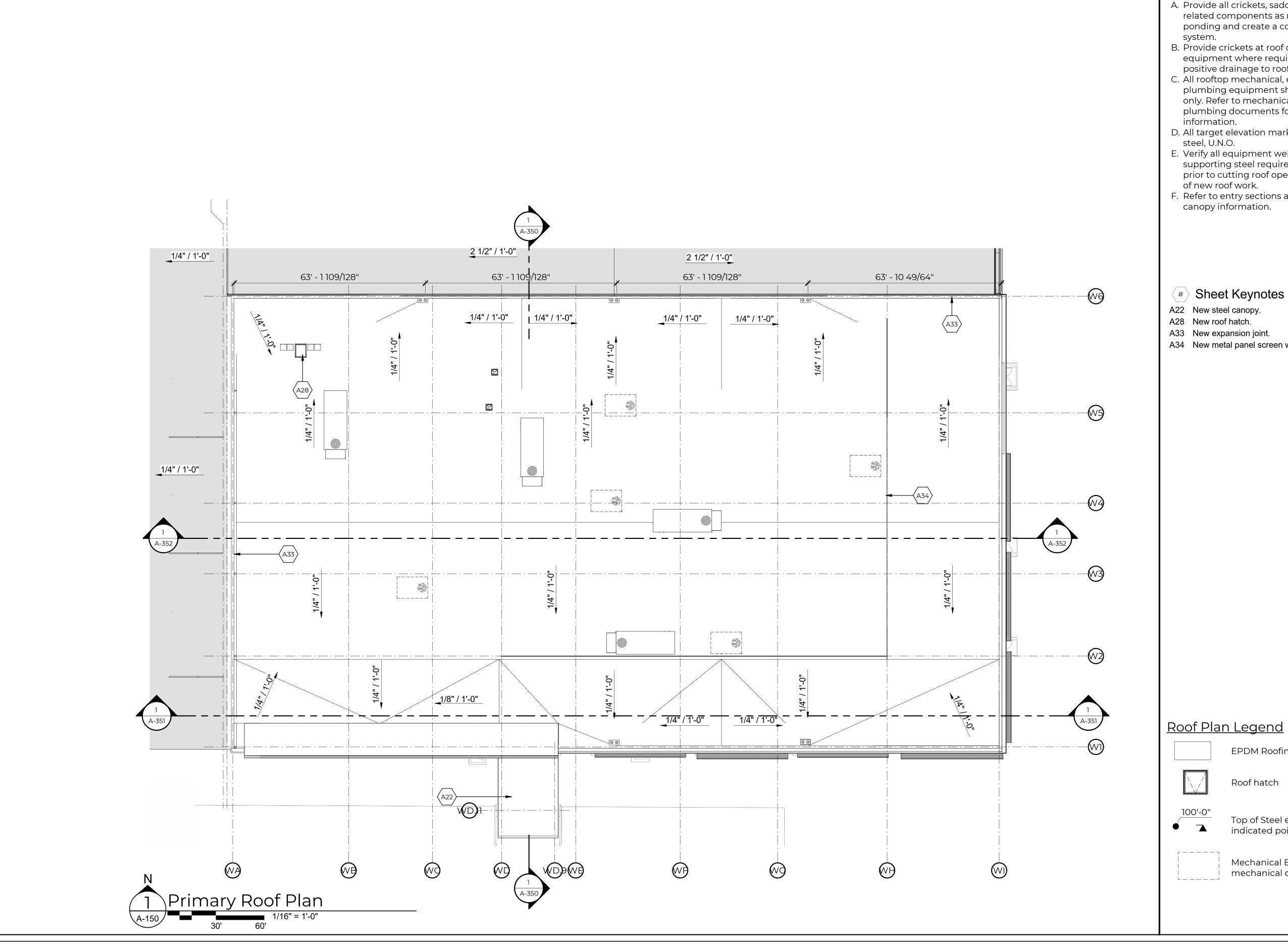


22-001

01/17/2024

Issued for: Site Plan - Rev 2

Primary Level 3 Floor Plan



- A. Provide all crickets, saddles, flashings, and related components as required to prevent ponding and create a complete roofing system.
- B. Provide crickets at roof curbs and/or equipment where required to provide positive drainage to roof drains.
- C. All rooftop mechanical, electrical and/or plumbing equipment shown for reference only. Refer to mechanical, electrical and plumbing documents for specific design information.
- D. All target elevation markers are to top of steel, U.N.O.
- E. Verify all equipment weights, sizes, and supporting steel requirements with architect prior to cutting roof openings or installation of new roof work.
- F. Refer to entry sections and details for entry canopy information.

Sheet Keynotes

- A22 New steel canopy.
- A28 New roof hatch.
- A33 New expansion joint.
- A34 New metal panel screen wall.

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Revision Schedule

Revision Date # Description

03/15/2023 Owner Review 2 Prelim Site Plan 05/01/2023

5 Site Plan - Rev 1 08/24/2023

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9299 Goble Drive Brighton, MI 48116

22-001

01/17/2024

Plan

Issued for: Site Plan - Rev 2

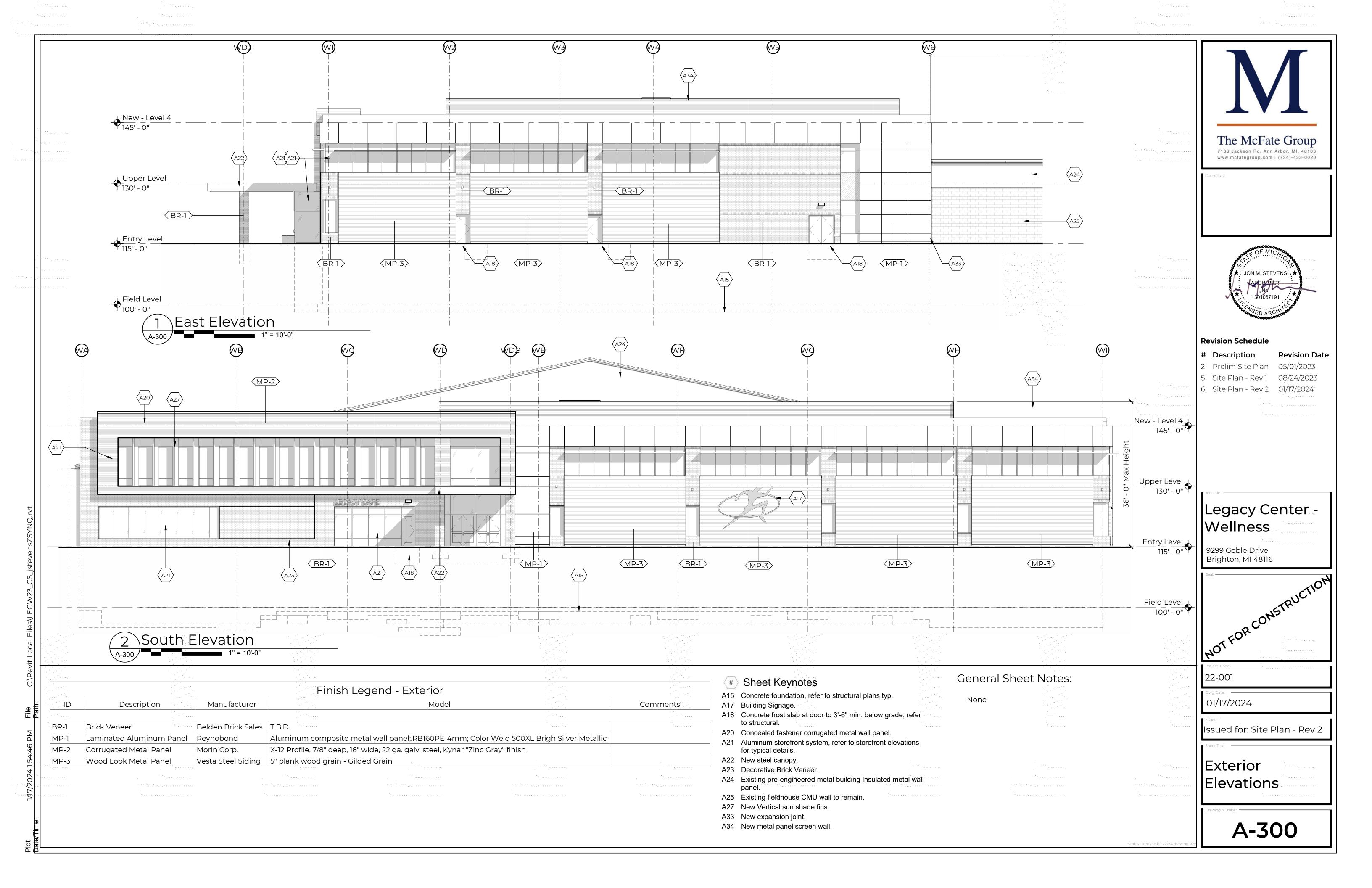
Primary Roof

Top of Steel elevation at indicated point.

EPDM Roofing

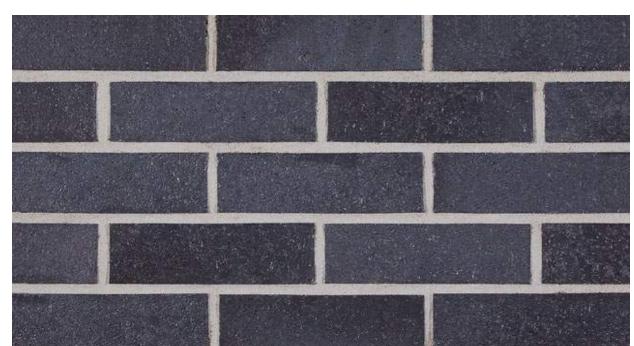
Roof hatch

Mechanical Equipment, refer to mechanical drawings











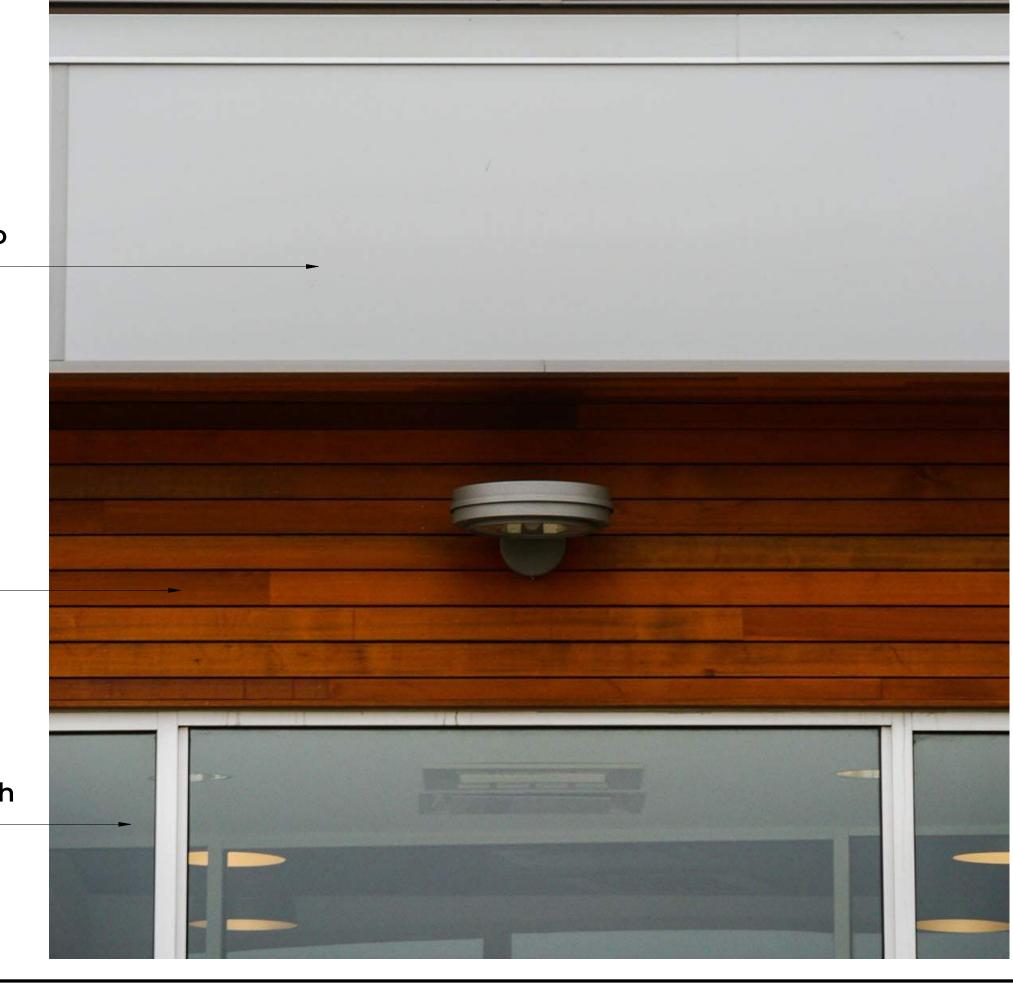
BR-1: Belden Brick - Black Diamond Velour or equal

MP-2 Morin Corrugated Metal Panel - Zinc Gray to match existing buildings-

MP-1 Reynobond ACM Panel to match existing buildings-

MP-3 Vesta wood look metal Panel - Cedar—

MP-3 Alum Storefront to match existing buildings-



The McFate Group
7136 Jackson Rd. Ann Arbor, Ml. 48103



Revision Schedule

Revision Date # Description

2 Prelim Site Plan 05/01/2023 Site Plan - Rev 1 08/24/2023

6 Site Plan - Rev 2 01/17/2024

Legacy Center -Wellness

9299 Goble Drive Brighton, MI 48116

22-001

01/17/2024

Issued for: Site Plan - Rev 2

Exterior Material Palette

	Finish Legend - Exterior										
ID	Description	Manufacturer	Model	Comments							
3R-1	Brick Veneer	Belden Brick Sales	T.B.D.								
MP-1	Laminated Aluminum Panel	Reynobond	Aluminum composite metal wall panel;.RB160PE-4mm; Color Weld 500XL Brigh Silver Metallic								
MP-2	Corrugated Metal Panel	Morin Corp.	X-12 Profile, 7/8" deep, 16" wide, 22 ga. galv. steel, Kynar "Zinc Gray" finish								
MP-3	Wood Look Metal Panel	Vesta Steel Siding	5" plank wood grain - Gilded Grain								

Wall luminaire · Two 90° ports

Application
Designed for accent lighting of walls and facades. Two wide beams of light

BEGA 1000 BEGA Way, Carpinteria, CA 93013 (805)684-0533 info@bega-us.com

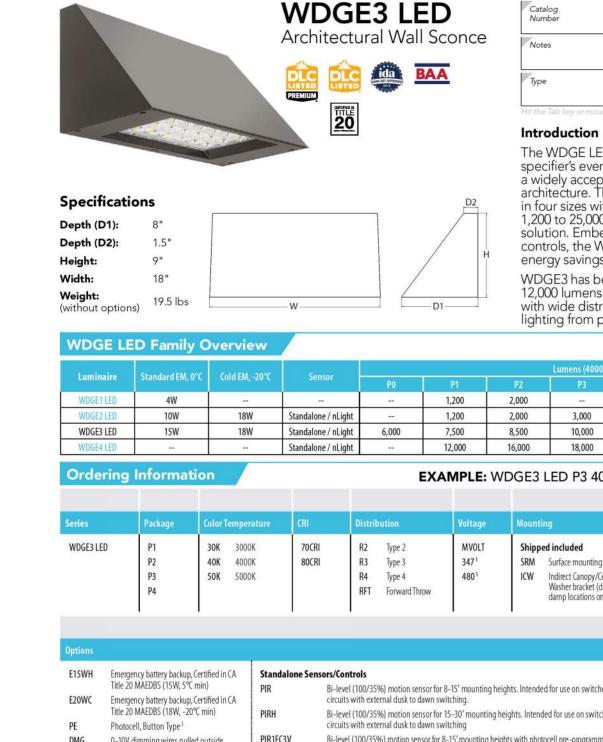
produce a striking pattern on the installation surface in any orientation.

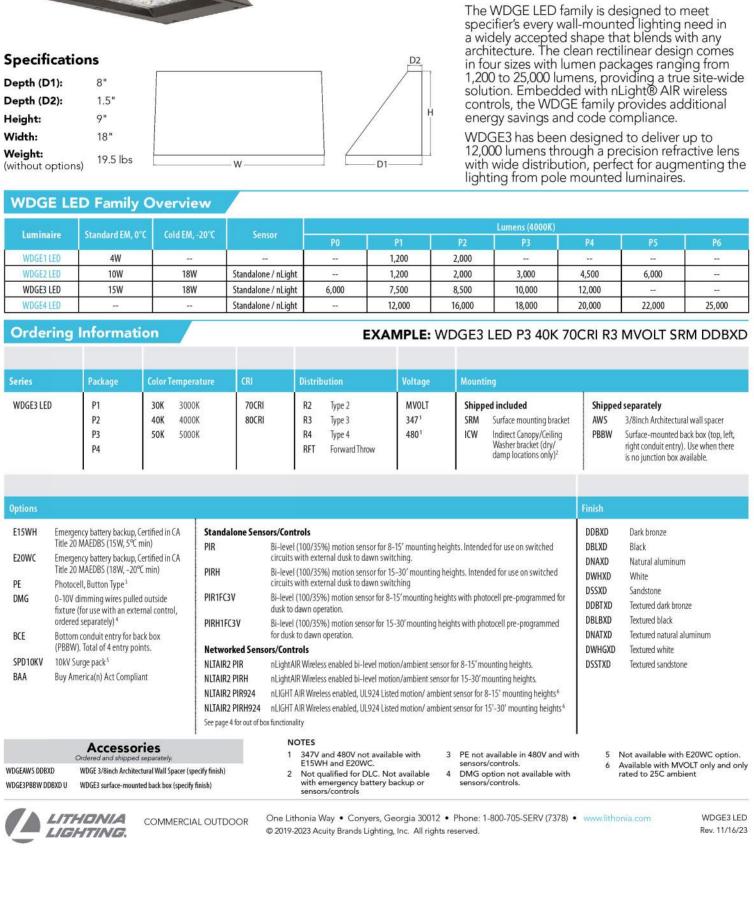
Clear safety glass with optical texture Modified: Marine grade, copper free (≤0.3% copper content) A360.0 aluminum alloy High temperature silicone gasket Silicone applied robotically to casting, plasma treated for increased Mechanically captive stainless steel fasteners Galvanized zinc-plated mounting bracket Silicone optic with excellent high temperature and UV stability NRTL listed to North American Standards, suitable for wet locations Protection class IP 65 Weight: 3.1 lbs. Electrical 120-277VAC Operating voltage Minimum start temperature LED module wattage -30°C 10.0W 12.0W System wattage 0-10V, TRIAC, and ELV dimmable Controllability Ra > 80 437 lm Color rendering index Luminaire lumens LED service life (L70) 60000 hrs LED color temperature □ 4000K (K4) □ 3500K (K35) □ 30000K (K3) 2700K (K27) BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details All BEGA standard finishes are matte, textured powder coat with minimum 3 mil thickness. BEGA Unidure® finish, a fluoropolymer technology, provides superior fade protection in Black, Bronze, and Silver. BEGA standard White is a super durable polyester powder. Optionally available RAL and custom color finishes provided in either polyester powder or liquid □ CUS Custom finish Marine grade undercoat RAL finish Available colors ☐ Black (BLK) ☐ Silver (SLV) ☐ Bronze (BRZ) □ White (WHT) CUS:

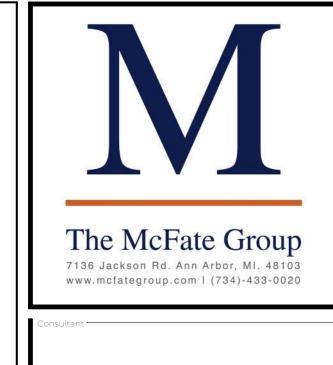
Due to the dynamic nature of lighting products and the associated technologies, luminaire data on this sheet is subject to change at the discretion of 855A North America. For the most current technologies, luminaire data on this sheet is subject to change at the discretion of 855A North America. For the most current technologies, luminaire data on this sheet is subject to change at the discretion of 855A North America. For the most current technologies, luminaire data on this sheet is subject to change at the discretion of 855A North America. For the most current technologies, luminaire data on this sheet is subject to change at the discretion of 855A North America. For the most current technologies, luminaire data on this sheet is subject to change at the discretion of 855A North America.

BEGA Product:

Project:









Revision Schedule

Revision Date # Description

6 Site Plan - Rev 2 01/17/2024

Legacy Center -

Wellness

9299 Goble Drive

Brighton, MI 48116

Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

OSX1 LED							
eries	LEDs	Color temperature ²	Color Rendering Index ²	Distribution		Voltage	Mounting
DSX1 LED	Forward optics	(this section 70CRI only) 30K 3000K 40K 4000K 50K 5000K (this section 80CRI only, extended lead times apply) 27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	70CRI 70CRI 70CRI 80CRI 80CRI 80CRI 80CRI 80CRI	AFR Automotive front row T1S Type I short T2M Type II medium T3M Type III medium T3LG Type III low glare ³ T4M Type IV medium T4LG Type IV low glare ³ TFTM Forward throw medium	T5M Type V medium T5LG Type V low glare T5W Type V wide BLC3 Type III backlight control ³ BLC4 Type IV backlight control ³ LCC0 Left corner cutoff ³ RCC0 Right corner cutoff ³	MVOLT (120V-277V) ⁴ HVOLT (347V-480V) ^{5,6} XVOLT (277V - 480V) ^{7,8} 120 ^{16,26} 240 ^{16,26} 277 ^{16,26} 347 ^{16,26} 480 ^{16,36}	Shipped included SPA Square pole mountin (#8 drilling) RPA Round pole mountin (#8 drilling) SPAS Square pole mountin #5 drilling RPAS Round pole mountin #5 drilling SPASN Square narrow pole mounting #8 drilling WBA Wall baraket 10 MAS arm adapter (mounts on 2 3/8" 0 horizontal tenon)

D-Series Size 1

LED Area Luminaire

NICHTIME INC.

ontrol options				Other option		Finish (requ	
Shipped installe NLTAIR2 PIRHN PIR PER PERS	nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40' mounting height, ambient sensor nabled at 2fc. ^{11, 12, 20, 21} High/low, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc ^{13, 20, 21} NEMA twist-lock receptacle only (controls ordered separate) ¹⁴ Five-pin receptacle only (controls ordered separate) ^{14, 21}	PER7 FA0 BL30 BL50 DMG DS	Seven-pin receptacle only (controls ordered separate) ^{14, 21} Field adjustable output ^{15, 21} Bi-level switched dimming, 30% ^{16, 21} Bi-level switched dimming, 50% ^{16, 21} 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) ¹⁷ Dual switching ^{18, 19, 21}	Shipped i SPD20KV HS L90 R90 CCE HA BAA SF DF Shipped s EGSR	nstalled 20KV surge protection Houseside shield (black finish standard) ²² Left rotated optics ¹ Right rotated optics ¹ Coastal Construction ²³ 50°C ambient operation ²⁴ Buy America(n) Act Compliant Single fuse (120, 277, 347V) ²⁶ Double fuse (208, 240, 480V) ²⁶ separately External Glare Shield (reversible, field install required, matches housing finish) Bird Spikes (field install required)	DDBXD DBLXD DNAXD DWHXD DDBTXD DBLBXD DNATXD DWHGXD	Dark Bronze Black Natural Aluminum White Textured dark bronze Textured black Textured natural aluminu Textured white

LITHONIA LIGHTING. COMMERCIAL OUTDOOR

d"series

Specifications

Length:

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com © 2011-2023 Acuity Brands Lighting, Inc. All rights reserved.

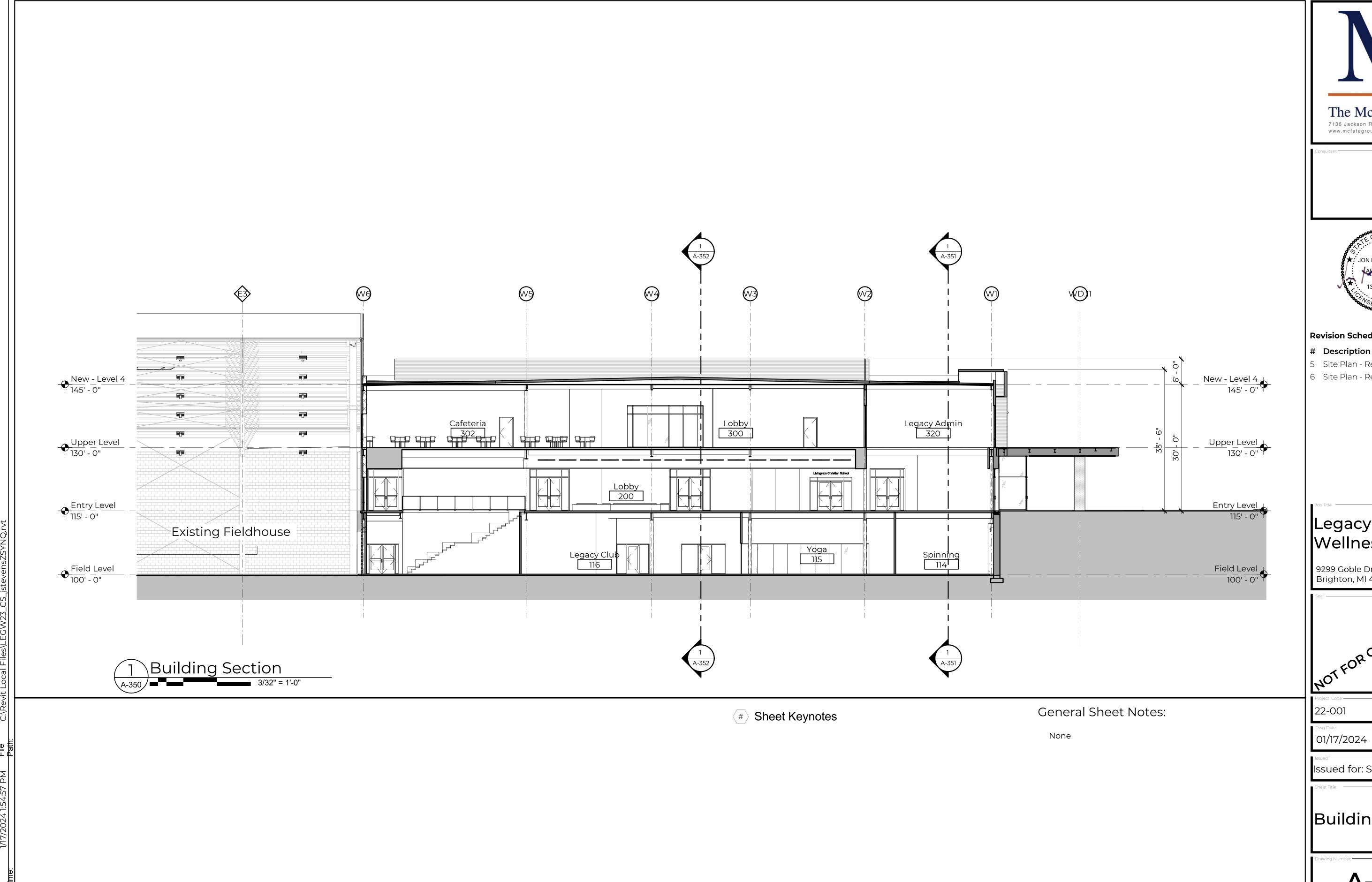
Exterior Light Fixtures

DSX1-LED Rev. 09/05/23 Page 1 of 10

01/17/2024

Issued for: Site Plan - Rev 2

22-001



The McFate Group 7136 Jackson Rd. Ann Arbor, Ml. 48103 www.mcfategroup.com I (734)-433-0020



Revision Schedule

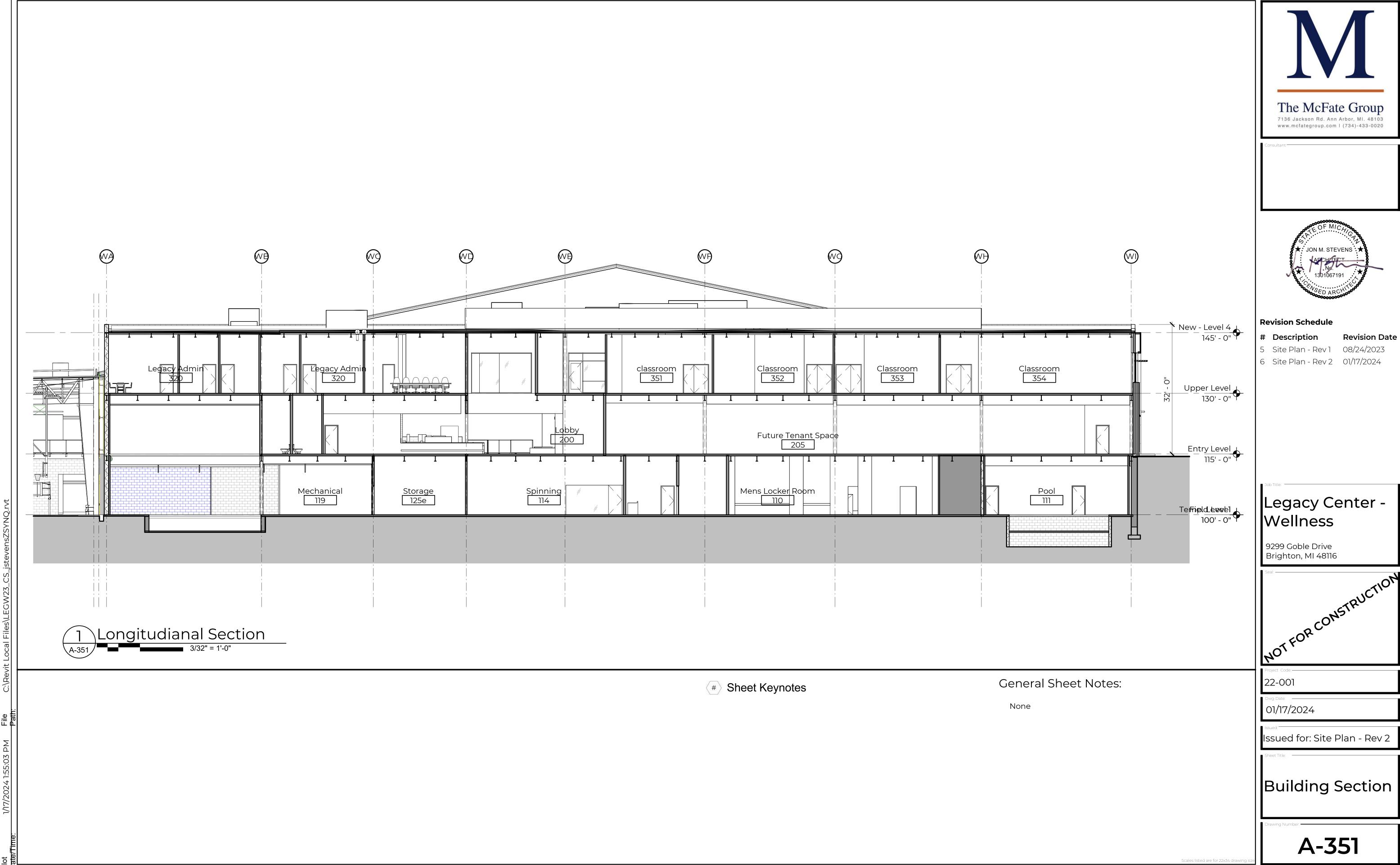
Revision Date # Description 5 Site Plan - Rev 1 08/24/2023 6 Site Plan - Rev 2 01/17/2024

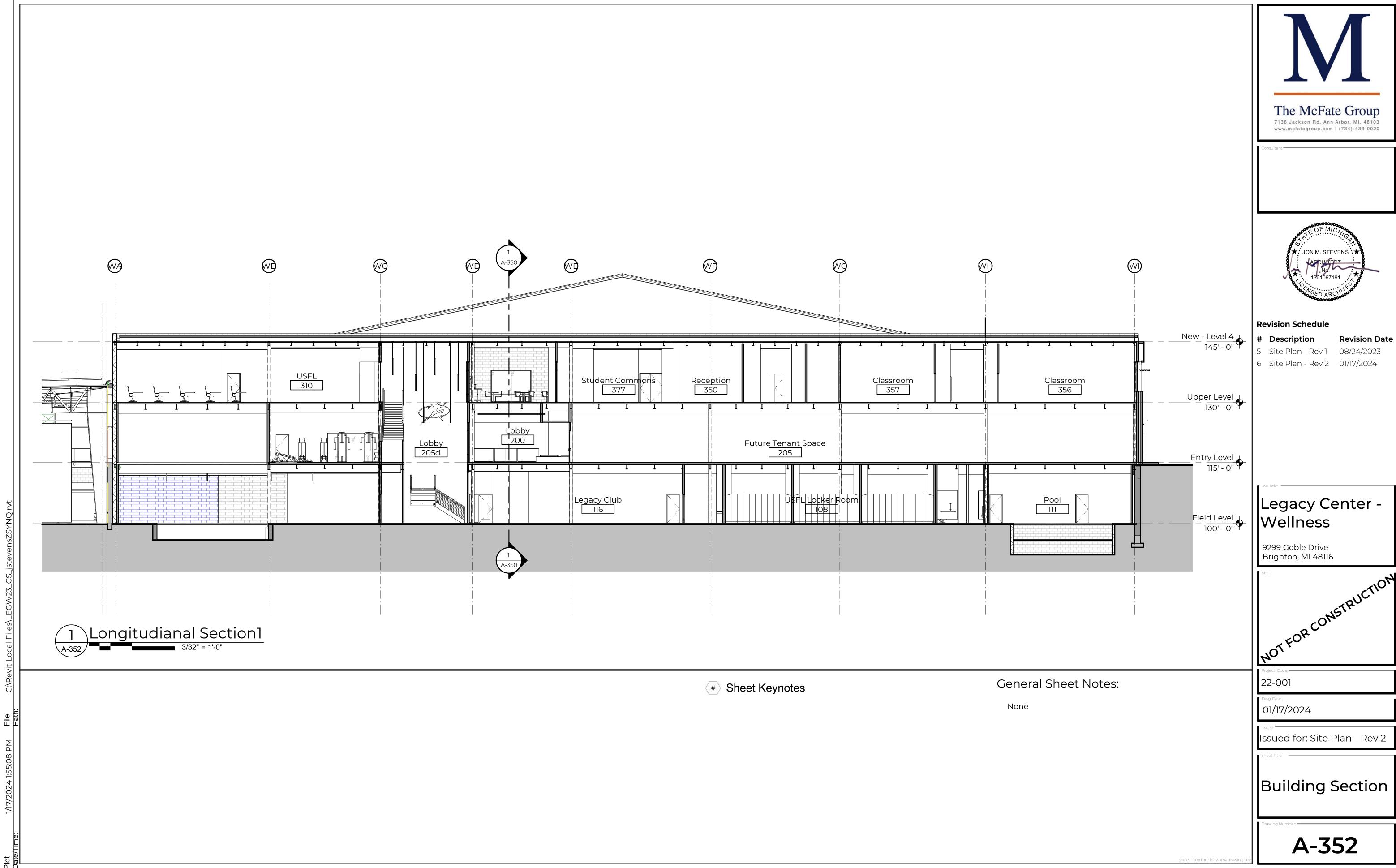
Legacy Center -Wellness

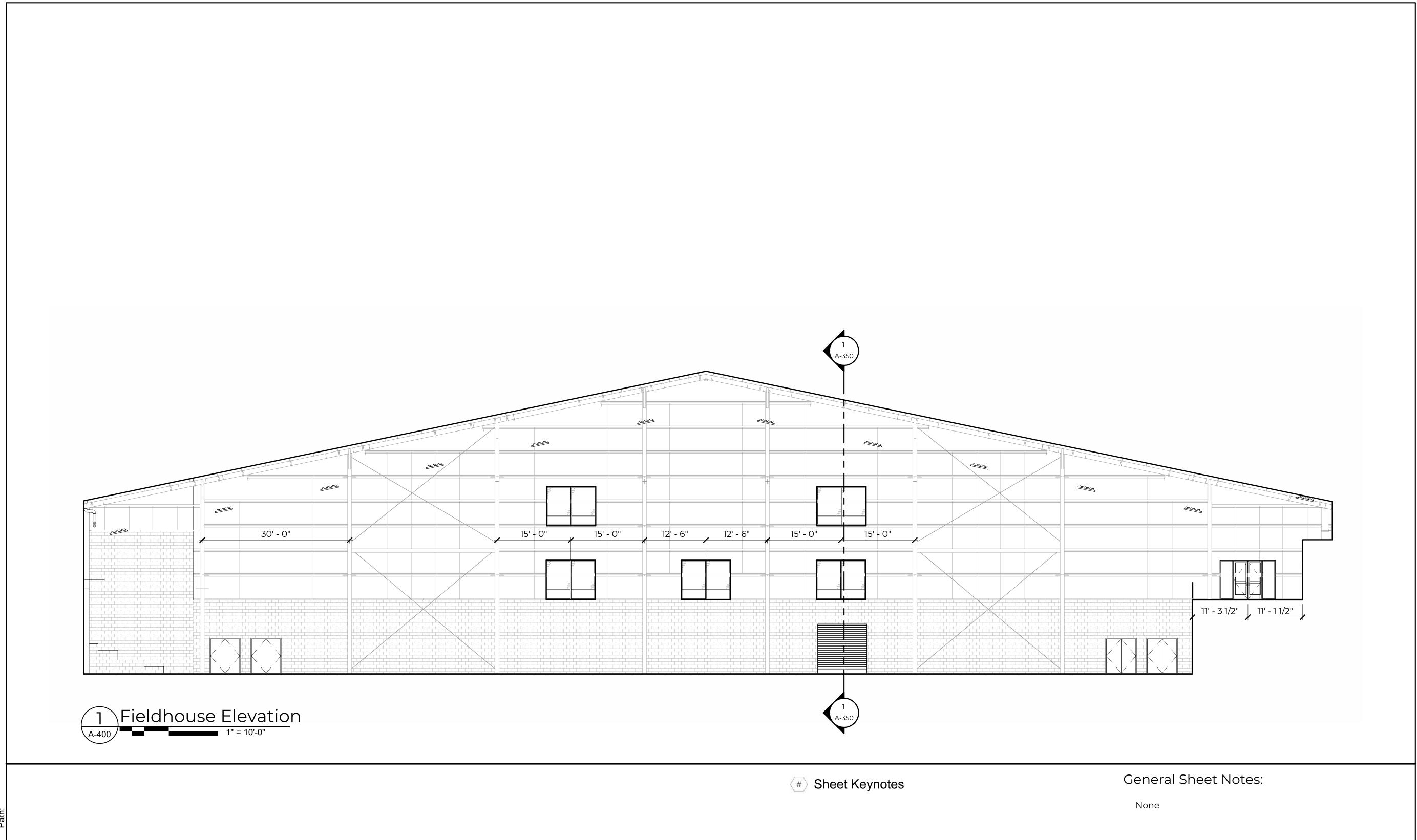
9299 Goble Drive Brighton, MI 48116

Issued for: Site Plan - Rev 2

Building Section







The McFate Group
7136 Jackson Rd. Ann Arbor, Ml. 48103
www.mcfategroup.com I (734)-433-0020



Revision Schedule

Description

Revision Date 2 Prelim Site Plan 05/01/2023 5 Site Plan - Rev 1 08/24/2023

6 Site Plan - Rev 2 01/17/2024

Legacy Center -Wellness

9299 Goble Drive Brighton, MI 48116

22-001

01/17/2024

Issued for: Site Plan - Rev 2

Field House Elevation



October 30, 2023

Green Oak Charter Township 10001 Silver Lake Road Brighton, MI 48116

ATTN: Ms. Debra McKenzie

Legacy Center Wellness Center – 2nd Site Plan Review and Special Use RE:

> Revise and Resubmit CES #2023-0022

Dear Ms. McKenzie,

Civil Engineering Solutions, Inc. has completed the 2nd Site Plan Review for the above referenced project. The plans are dated August 24, 2023 and are stamped "Revise and Resubmit". The following is a list of our comments/concerns:

Cover Sheet C1

- 1. The text for the bearings and distances should be enlarged for legibility. There is a discrepancy between the legal description and what is shown on the plan which should be reconciled. See red-marked plan.
- 2. "Parcel 2" appears to be two parcels. Have parcels 4716-20-100-009 and 4716-20-100-010 been combined? Grading is shown on a third parcel; this parcel information should also be included.
- 3. Overall Site Map text is too small to be legible.
- 4. As a general comment, we note improvements from previous phases that are not complete. See attached punch list dated June 20, 2023.
- 5. Should the project move forward, a detailed engineering review will be required with an application, fees and appropriate number of plan sets submitted to the Planning Department.

Sheet C6 - Overall Drainage Plan

- 1. The existing stormwater retention system was approved with the original PUD in 2012 and was constructed shortly thereafter. Basin maintenance may be required and this can be addressed at the time of the engineering review. Applicant acknowledges.
- 2. Our records show that a Stormwater Management Agreement is not on file for this property. Attached is the standard agreement template for the applicant's use. An agreement in recordable form must be in-hand before a preconstruction meeting will be scheduled. Applicant acknowledges.

Sheet C6C- Medical Center Grading & Drainage Plan

1. Grading under proposed ADA Vestibule shows a 3.00 percent slope. The maximum grade at a level landing is 2.0 percent in any direction. This area will serve of the "level landing" entry into the building.



Sheet C7- Utility Plan

- 1. The ultimate outlet for storm water is noted on the plan (the existing retention basin and forebays). The stormwater system was designed for the entire Legacy Center project. The proposed stormwater system for these project phases will modify existing storm sewers as required. The stormwater system appears to have capacity for the additional stormwater runoff. **Applicant acknowledges.**
- 2. Sanitary flow calculations and capacity evaluation (current and future including the additional REU's for the Wellness Center) of the on-site disposal system should occur at this time and prior to the Planning Commission taking action.
- 2. The domestic water lead and fire suppression line will require review and approval of the Livingston Community Water Authority. **Applicant acknowledges.**

If you have any questions regarding this review, please contact us at (248) 264-6906.

Sincerely,

CIVIL ENGINEERING SOLUTIONS, INC.

Rick Miner, P.E. Project Manager

Senior Project Engineer

Enclosure: Plan markups, punch list from previous project phases;

Stormwater Management Agreement Template

cc: Mark St. Charles, Township Supervisor, via email

Paul Montagno, Township Planner, via email

Brent LeVanway and Trevor Ehredt, Boss Eng via email

Rodney Goble, Goble Holdings via email

Rich Hobgood, P.E., OHM Advisors, via email

Ken Recker, Chief Deputy Drain Commission, LCDC, via email



3121 E. Grand River Howell, MI 48843 517.546.4836 fax 517.548.1670 www.bosseng.com

January 19, 2024

Rick Miner, P.E., Township Engineer Civil Engineering Solutions 1150 Corporate Office Drive, Suite 210 Milford, MI 48381

Re: Legacy Center Wellness Center – 2nd Site Plan Review – Revise and Resubmit CES #2023-0022

Mr. Miner,

We have received the review comments from CES for the 2nd Site Plan Review, dated October 30, 2023, for the Legacy Center Phase 1F – Wellness Center Site Plan submittal of May 1, 2023. We offer the following responses:

Cover Sheet C1

- Bearings and distances shown on the overall site map have been enlarged for legibility. The discrepancy noted between the legal description and what is shown on the plans has been corrected.
- 2. "Parcel 2" as designated in the Property Description and as shown on the Overall Site Map described the boundary of both parcels 4716-20-100-009 and 4716-20-100-010 together, since both are affected by the proposed work. They have not been combined legally, but collectively are referred to as "Parcel 2". Grading related to the Phase 1F work does not extend beyond Parcel 4716-20-100-003 (Parcel 1) and Parcels 4716-20-100-009 and 4716-20-100-010 (Parcel 2).
- 3. Text on the overall site map has been increased to improve readability.
- 4. Acknowledged.
- Acknowledged.

<u>Sheet C6 – Overall Drainage Plan</u>

- 1. Acknowledged.
- 2. Acknowledged.

Sheet C6C - Medical Center Grading & Drainage Plan

1. The grading under the ADA vestibule will be built at a 2.0% slope. More detailed information will be provided in the construction plan phase.

Sheet C7 – Utility Plan

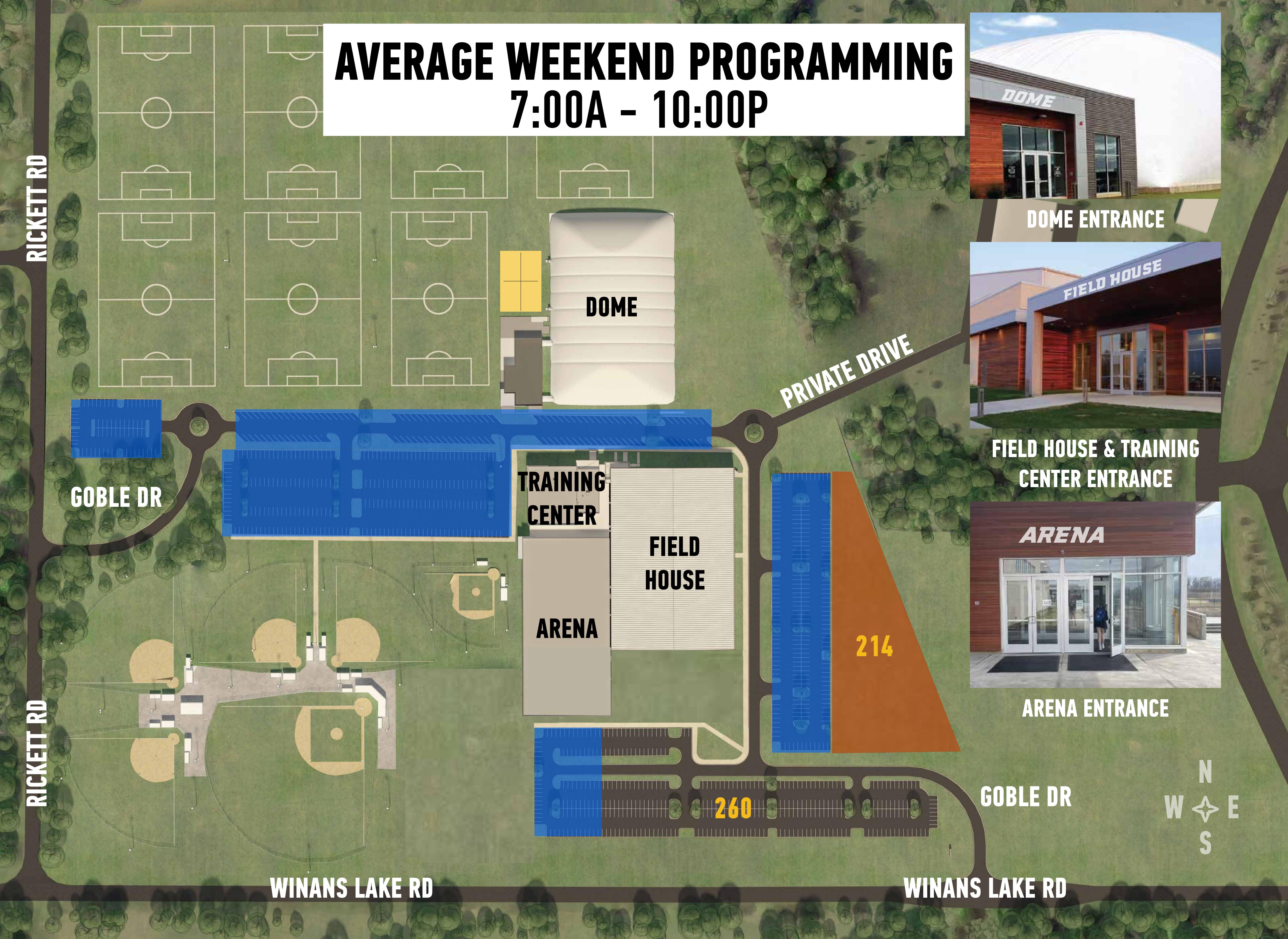
- 1. Acknowledged.
- 2. The evaluation of the sanitary flow calculations and capacity of the on-site disposal system will be provided under a separate cover prior to the submittal to the planning commission.
- 3. Acknowledged.

Feel free to contact me should you have any questions, or if you are in need of any additional information.

Sincerely,

BOSS ENGINEERING COMPANY

Mark DeFriez, P.E. Project Engineer





Mark DeFriez

From: Garrett Gonzalo <ggonzalo@livingstonchristianschools.org>

Sent: Thursday, February 29, 2024 10:05 AM

To: Rodney Goble

Cc: Brent LaVanway; Greene, Alan; Jon Stevens; rwiegand; Mark DeFriez

Subject: Re: Parking calcs

All,

<u>Livingston Christian Schools Parking & Drop-Off/Pick-Up Narrative at the Legacy Wellness Center</u>

Livingston Christian Schools (LCS) plans to have 7th through 12th grade students at the new Legacy Wellness Center on the Legacy Center campus. As a part of continued focus on student and school safety, LCS plans to have the following measures/procedures in-place.

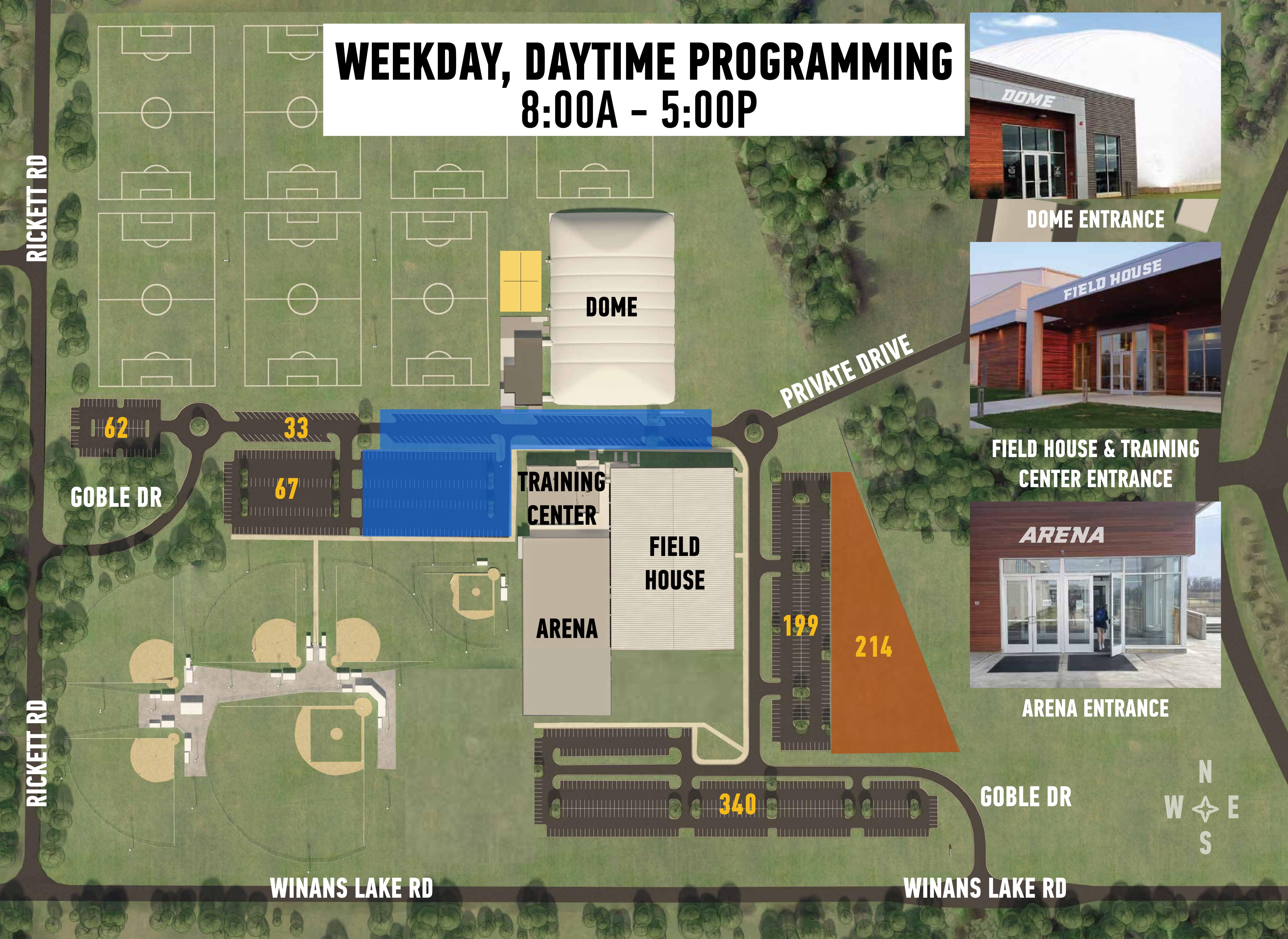
- 1. Access to the school on the 2nd floor level will be by keycard/fob/buzzer with a staff member at the entrance supervising/permitting students entering the school at all times. This single-entrance point is at the top of the South stairwell. Other doors into the school area will be exit-only for life safety purposes.
- 2. LCS will develop procedures similar to the current school procedures for staff-supervised drop-off/pick-up of students. LCS plans to have a minimum of one (1) staff member at the drop-off/pick-up lane and one (1) staff member at the 1st floor entrance to the Legacy Wellness Center, guiding students to the South stairwell.
- 3. LCS will provide a parking and drop-off/pick-up lane/queuing map to all LCS families at the beginning of the school year to outline the procedures in-place.
- 4. LCS will highlight this parking and drop-off/pick-up process at orientation and on school tours for new families.

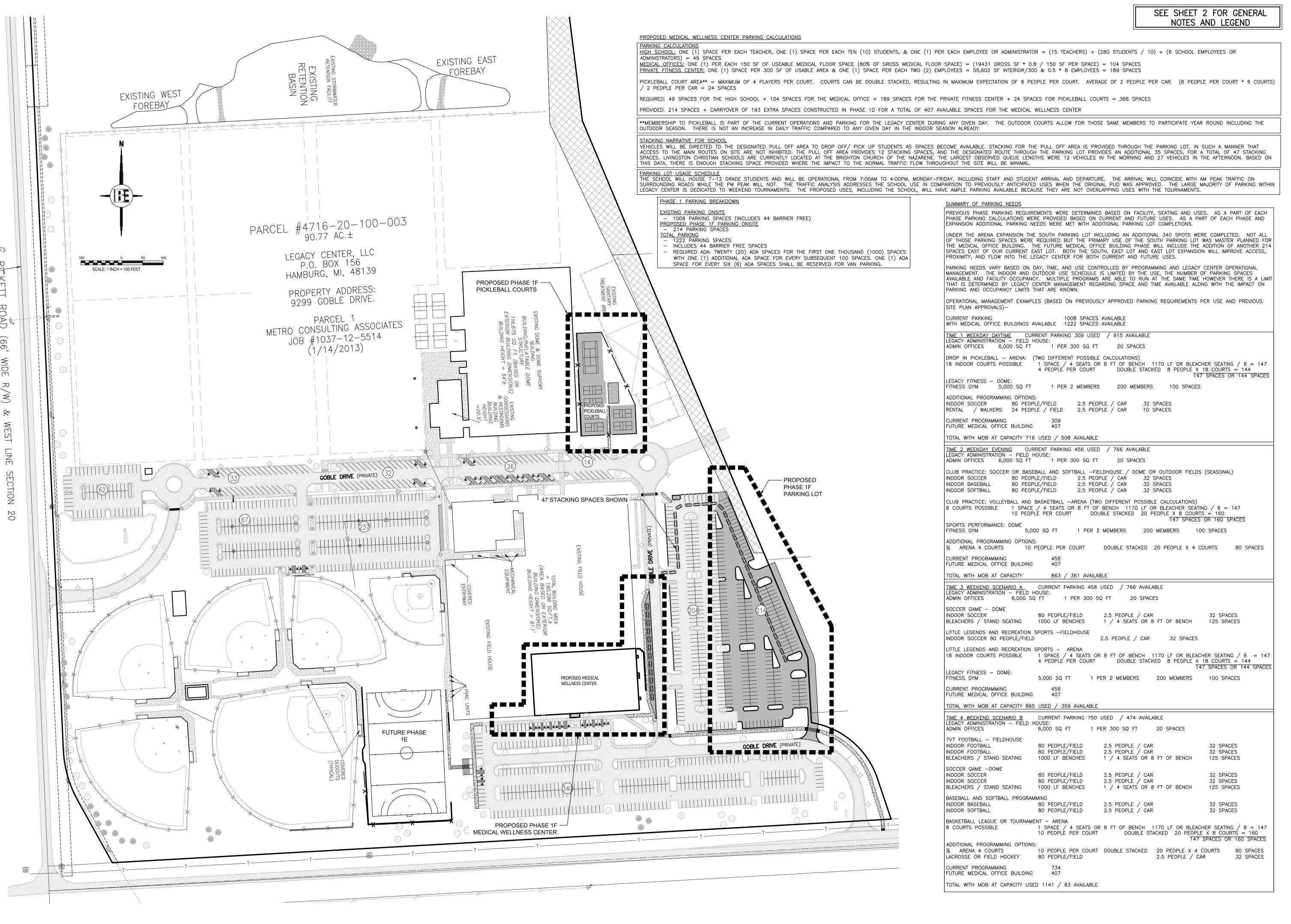
Please reach out with any questions. Thank you!

In Christ's Service,
Garrett Gonzalo
Board Chairman
(734) 489-3520
ggonzalo@livingstonchristianschools.org
livingstonchristianschools.org
Livingston Christian Schools
7669 Brighton Rd.
Brighton, MI 48116



Building Disciples and Inspiring Academic Excellence Through Biblically Based Education





SIGNED BY: RAWN BY: HECKED BY:

1" = 100' B NO: **23-046-1**

Dykema

Debra McKenzie February 29, 2024 Page 2

concern related to addressing the operational issues that always exist by mixing different uses in the same building (similar to mixing residential with commercial and residential uses), such as security and safety concerns. These operational issues will be addressed further at the hearing. But School officials and property ownership have given careful consideration to all operation issues.

Not only is the concept that only a separate school would be appropriate not reflected in Zoning Ordinance, such a requirement would be inconsistent with the mixed use designation and current reality for charter and religious schools. Those schools rarely have the resources to acquire property and construct stand-alone schools. There is a great deal of literature on this subject. See A Synthesis of Research on Charter School Facilities, National Charter School Resource Center, (2020), at p. 10 ("Charter schools may lease or own buildings originally designed as schools, other public buildings, commercial buildings, office buildings, religious buildings, residential buildings, houses, or industrial buildings.").Co-locating facilities in partnership with other uses and organizations, such as health center, is also common. (Id. at 13.) (This is a very large report, but I will bring copies for Planning Commission consideration at the hearing.) Indeed, Livingston Christian School is currently operating out of a church facility in Genoa Township, for which it also had to obtain a special land use approval (all school projects typically require special land uses). See Special Land Use permit for the Genoa school facility and Planners Review letter for that special land use attached hereto.

There are many challenges in finding an appropriate site, including the cost of retrofitting the buildings or space to accommodate school functions and meet school building codes as well as finding property where such a use is permitted as a special use. In Green Oak, schools are not permitted by right in any zoning district and are excluded as special land uses in most of the districts, but are including in the VMU-2 District. Moreover, the situation here is ideal in that this is new construction so the school space is designed and will be constructed to meet all State construction standards for a school facility. (Note, it does not appear that the Township has any specific requirements or standards for schools, except the Master Plan states that schools be located on a paved road and be "near residential" areas, but note not within residential areas. (2023 Plan at p. 60.) The synergy is apparent. The School will have access to the entire gamut of recreational amenities for its students, which it could otherwise never afford. Busy parents can drop off their children and then use the health club facilities to exercise and take a class without having to drive anywhere else. Note further that the School will not serve elementary age students. They will remain at the Genoa Township facilities. So there is no requirement for a dedicated and secure playground facility.

Mr. Montagno also mentions that the school will not have "dedicated outdoor recreation areas required for the students' use." No such requirement is cited nor does any such requirement exist, particularly for the age of the students attending the School. Moreover, through planned scheduling, the students will enjoy dedicated recreational areas and times for their use. Mr. Montagno also observes that the school will draw students from the region. He does not say this is a problem, but it should not be. The Master Plan states that the Legacy development serves both a local and regional market. In sum, the use is clearly consistent with the zoning (which allows such use) and the Master Plan.

Dykema

Debra McKenzie February 29, 2024 Page 3

2. Will be designed, constructed, operated, and maintained to be harmonious and appropriate in appearance with the existing or intended character of the general vicinity and will not change the essential character of the area.

As to appearance, the School will operate within a proposed new building that complies with the aesthetic and other requirements of the Legacy PUD and the VMU-2 zoning. Mr. Montagno raises a concern about traffic, but updated traffic information presented in connection with the application for site plan and special land use demonstrates that the new building with all the proposed uses will not degrade any existing traffic situation. Indeed, extensive improvements were made as part of the original PUD to accommodate full development of the property. Also, the Master Plan, when dealing with the Legacy PUD, recognizes that updated traffic information will be provided in connection with the site plans for specific uses, as was done here.

3. Will not be directly or indirectly hazardous or disturbing to existing or future uses, ecosystems, waterways, wetlands, etc.

Obviously, the use of the space by the School in the new building does not disturb existing ecosystems, waterways, wetlands, etc. The Planner identifies a concern about the interior arrangement of the uses within the building, noting that the co-presence of the school and medical facilities presents safety and privacy issues. These issues have or will be addressed in the operational details to be explained to the Planning Commission. The tenant spaces were carefully planned to accommodate the specific needs and functions of both the school and the health club and other medical office tenants. Indeed, the owner/developer will be part of the operation of the health club and neither the owner of the building nor any potential future tenant has expressed any concern about the School operating in the Building. Moreover, the School will not be operating during the peak user times for the various recreational facilities on the site, which will moderate any traffic impact as a result of the School use.

4. Will be an improvement in relation to property in the immediate vicinity and to the Township as a whole.

There is simply no basis to conclude that a School facility will not be an enhancement to the overall Legacy Center. The property was intended for a variety of uses from commercial, health and wellness and residential. It is a development that caters to, among others, the physical and health needs of children and families. An integrated educational facility, catering to the minds of the children, is consistent with the overall mission of the project.

5. Will be served adequately by essential public services and facilities or that persons responsible for the establishment of the proposed use will provide adequately for such service or facility.

Sewer service is provided privately and the upgraded system needed to serve the Wellness Building will be paid for by the developer and will require approval from EGLE and the

Dykema

Debra McKenzie February 29, 2024 Page 4

County health department. Public water supply is fully available to serve the new facility as explained by the design engineers.

6. Will not create excessive additional public costs and will not be detrimental to the economic welfare of the Township; and

The only question raised here was again the potential traffic, but based on the updated analysis performed by the traffic engineer, the School will not negatively impact existing traffic. Nor will the School adversely impact any Township supplied utilities. The roads were previously improved to handle the traffic volumes generated by the new Wellness Building, including the proposes uses within the Building.

7. Will be consistent with the intent and purposes of the Zoning Ordinance.

The Village Mixed Zoning classification allows and promotes a variety of uses and encourages mixed-use development. Zoning Ordinance Section 38-138. While a school is not allowed in most of the Township's zoning districts, it is allowed as a special land use in the VMU-2 district. The Master Plan states that it is not desired that the entire property be developed for commercial uses. (Master Plan, at p. 29.) The intent is for a variety of uses in a village like atmosphere. While the current development is not fully consistent with the a walkable environment in that it serves a regional market, the mixture of land uses, including within single buildings, and the variety of services envisioned, should surely include educational facilities. Indeed, that is why schools are permitted in the district in the first place. Mr. Montagno seems to ignore the zoning and master plan when he states that the PUD was established to host recreational facilities only. That is not the case. The PUD accommodated a variety of uses--recreation, commercial, healthcare, residential and any other use authorized in the VMU-2 district. The PUD Agreement itself authorizes all uses permitted in the VMU-2 district, including special uses. The School is such a use.

Thank you for considering these additional observations.

Sincerely,

Dykema Gossett PLLC

Alan M. Greene

Attachment

cc: Paul Montagno

Rodney Goble Brent LaVanway

Permit No.: SLU17-01



SPECIAL USE PERMIT

2911 Dorr Road, Brighton, Michigan 48116

Phone: (810) 227-5225, Fax: (810) 227-3420

PROJECT NAME: Livingston Christian Schools

ADDRESS: Brighton Church of the Nazarene, 7669 Brighton Road, 48116

APPLICANT NAME: Rob Wiegand APPLICANT PHONE: (503) 710-4306

PARCEL ID NUMBER: 11-25-400-059 ZONING: SR (Suburban Residential)

SPECIAL LAND USE AUTHORIZED BY THIS PERMIT: Major amendment to existing special use to add a 200 student K-12 private school as a tenant within the existing church.

DATE OF SPECIAL LAND USE APPROVAL BY TOWNSHIP BOARD: November 20, 2017

CONDITIONS OF SPECIAL LAND USE APPROVAL:

- 1.) Student enrollment shall not exceed 200 students with the full implementation of the site plan corresponding to this approval.
- 2.) An agreement shall be provided which defines the costs and responsibilities for implementation of the approved site plan between the Church of the Nazarene (landlord) and Livingston Christian Schools (tenant). This agreement shall be approved by the Township Attorney prior to issuance of the Special Land Use Permit and within the 60 day compliance period provided by 19.02.04(h). This agreement can be a copy of an amended lease agreement between the Livingston Christian Schools and the Church of the Nazarene.

 3.) A copy of the Livingston Christian Schools annual report to the State of Michigan certifying the school enrollment shall be provided to the Township on or before December 1st of each year.

DID THE SPECIAL USE REQUIRE A VARIANCE? NO

DOES THE USE HAVE AN EXPIRATION: NO

SPECIAL LAND USE - CERTIFICATE OF COMPLIANCE			
DEADLINE FOR COMPLIANCE WITH CONDITIONS (60 DAYS FROM BOARD APPROVAL): January 20, 2017			
DOES THE APPLICANT NEED TO SUBMIT NEW PLANS OR INFORMATION TO DEMONSTRATE COMPLIANCE:			
IF YES, EXPLAIN: An agreement shall be provided which defines the costs and responsibilities for implementation of the approved site plan between the Church of the Nazarene (landlord) and Livingston Christian Schools (tenant). This agreement shall be approved by the Township Attorney prior to issuance of the Special Land Use Permit and within the 60 day compliance period provided by 19.02.04(h). This agreement can be a copy of an amended lease agreement between the Livingston Christian Schools and the Church of the Nazarene.			
BY SIGNING BELOW THE APPLICANT AGREES TO COMPLY WITH ALL CONDITIONS OF SPECIAL LAND USE			
PPROVAL:			
gn above and print here:			
BY SIGNING BELOW, ZONING ADMINISTRATOR RECOGNIZES THAT THE APPLICANT HAS SUFFICIENTLY DEMONSTRATED COMPLIANCE WITH THE CONDITIONS OF APPROVAL:			
gn above and print here: Date			

GENOA CHARTER TOWNSHIP BOARD Regular Meeting and Public Hearing May 6, 2019

MINUTES

Supervisor Rogers called the regular meeting of the Genoa Charter Township Board to order at 6:30 p.m., with the Pledge of Allegiance. The following members were present constituting a quorum for the transaction of business: Bill Rogers, Paulette Skolarus, Robin Hunt, Jim Mortensen, Terry Croft, Diana Lowe and Jean Ledford. Also present were Township Manager, Michael Archinal; Township Attorney, Joe Seward; and nine persons in the audience.

A Call to the Public was made with no response.

Approval of Consent Agenda:

Moved by Mortensen and supported by Lowe to move all items listed to the regular agenda for discussion. The motion carried unanimously.

Approval of Regular Agenda:

Moved by Lowe and supported by Hunt to approve for action all items listed under the Regular Agenda as requested. The motion carried unanimously

1. Payment of Bills.

Moved by Mortensen and supported by Croft to approve the payment of bills with the condition that the April 19, 2019 payroll will be added to the next agenda for review. The motion carried unanimously.

2. Request to Approve Minutes: April 15, 2019

Moved by Croft and supported by Hunt to approve the Minutes of April 15, 2019 deleting the name Township Attorney Joe Seward from the minutes as he was not present. The corrected Minutes were voted and carried unanimously.

3. Request for approval of a proposal from Dell for the purchase of five new workstations at a cost not to exceed \$3,531.35.

Moved by Mortensen and supported by Lowe to approve the purchase of 5 computers as requested by VanTassell. The motion carried unanimously.

4. Request for approval of site work and installation of a basketball court at Genoa Park at a cost of \$105,303.60.

Moved by Mortensen and supported by Croft to table the request until a second quote may be obtained for the basketball court. The motion carried as follows: Ayes: Ledford, Croft, Hunt, Lowe, Mortensen and Skolarus. Nay – Rogers.

5. Request for approval of proposals in the amount of \$6,446.00 from Mica Crafters for improvements to the main copy room and the Township kitchen.

Moved by Mortensen and supported by Lowe to approve the contract with Mica Crafters in the amount of \$6,446.00 as requested. The motion carried unanimously.

- 6. Public hearing for the Edwin Drive Road Maintenance Project (Summer 2019).
 - A. Call to the Property Owners and to the Public.

A call to property owners and the public was made with no response.

B. Request for approval of Resolution #5 [confirming the special assessment roll] for the Edwin Drive Road Improvement Project Special Assessment District (Summer 2019).

Moved by Ledford and supported by Skolarus to approve Resolution # 5 as requested. The motion carried by roll call vote as follows: Ledford, Croft, Hunt, Lowe, Mortensen, Skolarus and Rogers. Nays – None. Absent – None.

7. Consideration of a recommendation for approval of a rezoning (adoption of Ordinance Z-19-01), PUD Agreement, Impact Assessment and conceptual PUD Plan for a proposed planned industrial development with a new 67,000 sq. ft. indoor climate controlled storage building. The rezoning requested is from GCD to IND with a Planned Industrial District (PID) overlay located at 2528 Harte Drive, Brighton consisting of 10.62 acres on parcel 4711-13-300-009. The request is petitioned by James Pappas of Fusco, Shaffer and Pappas, Inc., also known as the Birkenstock property.

A. Call to the public.

A call to the public was made with no response.

B. Request for approval of the adoption of Ordinance Z-19-01 to rezone parcel 4711-13-300-009 from GCD to IND/PID.

Moved by Lowe and supported by Skolarus to approve and adopt Ordinance No. Z-19-01. This approval is made because the proposed amendment to the Zoning Map and reclassification as a Planned Industrial Park District (PID) with the related development agreement and conceptual plan has been found to comply with the criteria stated in Sections 10.02.04, 10.07.01 and 22.04 of the Township Zoning Ordinance. This finding includes that the rezoning encourages innovative and beneficial land uses, is consistent with the goals, objectives, and land use map of the Master Plan, preserves open space and historical features, promotes efficient provision of public services and utilities, reduces adverse vehicular and pedestrian traffic impacts, and encourages the use and improvement of an existing site. The motion carried by roll call vote as follows: Ledford, Croft, Hunt, Lowe, Mortensen, Skolarus and Rogers. Nays – None. Absent – None.

C. Disposition of PUD Agreement revised on April 16, 2019.

Moved by Hunt and supported by Lowe to approve the PUD Agreement revised on April 16, 2019 with the following conditions:

- 1. The revisions suggested by the Township Attorney related to Section III, Item A. shall be incorporated and the revised draft shall be reviewed and approved by Township staff and Township Attorney.
- 2. Page numbering shall be corrected.
- 3. In regard to permitted uses, the first "whereas..." statement on page 2, Section I. Item B., and Section II, Item A. shall be revised so as not to indicate that all permitted uses are included. A list of uses shall be provided in table format as an Exhibit C and shall depict all permitted and special land uses applicable to the property.
- 4. Section I, Item F. shall remove the reference to Article 13 and instead state "shall comply with the Zoning Ordinance".

The motion carried unanimously.

D. Disposition of Environmental Impact Assessment dated January 2019.

Moved by Hunt and supported by Lowe to approve the environmental impact assessment dated January 2019 as submitted. The motion carried unanimously.

E. Disposition of Conceptual PUD Plan dated 2/22/19 with revised sheets A.S.101 and C.102 dated 4/5/19.

Moved by Lowe and supported by Skolarus to approve the Conceptual PUD Plan dated 2/22/19 with revised sheets A.S.101 and C.102 dated 4/5/19 with the following conditions:

- 1. The petitioner is encouraged to retain and/or relocate to the extent possible any healthy and mature trees in the final PUD site plan submittal.
- 2. Details of the electronic message sign shall be provided with the Final PUD site plan.
- 3. As requested by the Township Engineer, documentation of the temporary grading easement shall be provided with the Final PUD Site Plan submittal.

The motion carried unanimously.

8. Consideration of a recommendation for approval of a special use, site plan and environmental impact assessment for an amendment to a previously approved special use permit for a K-12 Livingston Christian School located within the Brighton Church of the Nazarene. The property in question is located at 7669 Brighton Road, Brighton, Michigan, on parcel #4711-25-400-059. The request is petitioned by Livingston Christian Schools.

A. Disposition of Special Use.

Moved by Lowe and supported by Hunt to approve the Special Land Use to increase the maximum number of students from 200 to 280. This approval is granted based upon finding consistency with the standards of section 19.03 of the Zoning Ordinance. The motion carried unanimously.

B. Disposition of Environmental Impact Assessment (3-11-19)

Moved by Hunt and supported by Lowe to approve the environmental impact assessment dated March 11, 2019 as submitted. The motion carried unanimously.

C. Disposition of Site Plan (3-11-19)

Moved by Lowe and supported by Skolarus to approve the site plan dated March 11, 2019 with the condition that the applicant provide information to Township staff that the landscaping and other previously approved requirements have been implemented. The motion carried unanimously.

9. Request to enter into a closed session to discuss pending litigation in the matter of Ikle v. Genoa Charter Township 29855-CZ pursuant to MCL 15.268 (e).

Moved by Skolarus and supported by Croft to adjourn to a closed session to discuss pending litigation in the matter of Ikle v. Genoa Charter Township 29855-CZ pursuant to MCL 15.268 (e) at 7:30 p.m. The motion carried by roll call vote as follows: Ledford, Croft, Hunt, Lowe, Mortensen, Skolarus and Rogers. Nays – None. Absent – None.

The Regular Meeting of the Township Board was reopened at 8:00 p.m.

Archinal provided an overview of his meetings with two Home Owners' Associations and their intent on reconstruction of the roads in Pine Creek and Northshore.

Attorney Joe Seward – The Township regularly receives requests from homeowners living in the more rural parts of the Township requesting internet or cable service. If we are going to put pressure on Comcast to provide extended service, the Township needs to begin working on their requests at least three years in advance. There is no density trigger in our Comcast agreement. We have no way to force Comcast to put in cable. Current mapping of Comcast and ATT should be made available to the township.

Moved by Lowe and supported by Croft to adjourn the regular meeting and public hearing of the board at 8:15 p.m.

Paulette A. Skolarus, Clerk Genoa Charter Township Board



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

TO: Green Oak Township Planning Commission

FROM: Paul Montagno, AICP & Michelle Marin, AICP Candidate

DATE: February 2, 2024

RE: Zoning Regulations for Wedding/Event Barns

Since the early 2010s, rural wedding venues have risen in popularity, with rural communities like Green Oak Township becoming the sought-after location for wedding ceremony and reception venues. The following memo details the current regulations within Green Oak Township that impact the permittance of "wedding barns," (event barns) considerations if planning to update the zoning ordinance to permit event barns in some rural areas of the Township, and includes examples of zoning ordinance changes that might permit event barns in rural areas of the Township in a manner consistent with best practices, that minimizes negative impacts, that maintains the rural character of the more rural zoning districts, and that retains the Township's ability to enforce its ordinances.

Current Regulation

The uses described in the Green Oak Township Zoning Ordinance which most accurately reflect event barns are Assembly Halls. Assembly halls are only permitted with special approval use in the GB – General Business zoning district. Only several parcels in the Township are zoned GB, and they all currently host facilities and are situated along major roadways, such as Ten Mile Road, Grand River Avenue, or off the US-23 corridor. Event barn facilities are, by design, more rural, rendering existing GB parcels undesirable for any developer seeking to locate an event barn in Green Oak Township. Even if the GB-zoned parcel is appropriate, the applicant must undergo the special approval use process and prove that the seven (7) special approval use standards are met.

Assembly halls are not permitted by right or by special approval in any other zoning district within the Township.

Considerations for Updating Regulations

If considering the adoption of an ordinance amendment to permit event barns in the Township, certain questions must be considered:

- Should event barns in additional zoning districts be a "permitted by right" use or only after meeting standards as a "special land use?"
- How large should the subject property be?
- Are outdoor events allowed or just indoor events?
- What setbacks should be required from the neighboring properties?
- How many events will be allowed per week or per year?

- Which type of structures should be permitted to host events: historic structures only or new construction on existing farmland? Historic barns are charming; they are buildings being repurposed to modern standards. But that repurposing can be difficult. New construction doesn't have the challenges of a historic renovation project, but is the community still "preserving" rural character?
- Will there be a limit to how many event barns are allowed in a community? If so, how many?
- Does the event barn need to be on a paved road?
- Will traffic increase or will it just be different (different times and days)? Are improvements needed to mitigate any traffic issues?
- What type of site lighting is appropriate for a rural setting, but will also ensure pedestrian safety from the event to the parking lot?
- Does the parking lot need to be paved? Can it be gravel or simply grass?
- What type of facilities are required (restrooms or kitchen)? If restrooms are built, consider that the septic field will most likely need to be expanded. Are Porta Johns acceptable?
- Consider the coordination needed between various governmental entities (road commission, health department, etc.)

Currently, event barns fall under the "Assembly Hall" use classification. If this classification is maintained, any ordinance adjustment that would permit event barns would also permit all assembly hall uses in that same zoning district, including conference centers, lecture halls, social club centers, etc.

Optional Zoning Ordinance Changes

Event barns currently qualify as "Assembly Halls." If the Township wishes to zone for event barns independently from other assembly hall uses, then a new definition should be added to the Zoning Ordinance to reflect the event barn use. Such a definition might be "Event Barn: a site or facility with an agricultural structure(s) approved by the Township to conduct private events by renting or leasing to private parties on a commercial basis."

Zoning regulations may permit these venues in certain districts that include rural areas in addition to the GB — General Business district. Supplementary regulations may be introduced to limit the number of guests, provide unique setbacks, require more robust landscaping, or otherwise regulate barn-style private event venues.

We have provided draft ordinance language, drawing on existing examples and some known best practices. Following a discussion with the Planning Commission, we are happy to do additional research and explore specific requirements that would best align with the intention of the new Master Plan and the Township's values.

Respectfully submitted,

CARLISLE/WORTMAN ASSOC., INC

Paul Montagno, AICP

Principal

CC.

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Michelle Marin Community Planner

Mark St. Charles, Township Supervisor
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New Section

Article IV. Supplementary Regulations Sec. 38-202. Event Barns.

<u>Event Barn: a site or facility with an agricultural structure(s) approved by the Township to conduct</u> private events by renting or leasing to private parties on a commercial basis.

Event Barns shall be subject to the following limitations:

- (a) The site shall be a minimum of twenty (20) fifteen (15) acres.
- (b) The site shall have at least one (1) property line abutting a paved road, and the site shall provide all public access directly to that road.
- (c) Minimum front, side, and rear setbacks shall be one hundred (100) feet wide and shall be landscaped with trees, shrubs, and grass in accordance with Section 38-177. Event barns must be centered on the property. All landscaping shall be maintained in a healthy condition. No parking or structures shall be permitted in these yards, except required entrance drives and any walls as may be used to obscure the use from abutting residential districts.
- (d) Parking must be sufficient to handle the number of attendees plus staff in accordance with Section 38-312.
- (e) All event barns shall have sanitary facilities as approved by the 25 Livingston County Health Department if not on public sewer and water.
- (f) No temporary restroom facilities are permitted on site.
- (g) No amplified music is permitted outdoors.
- (h) All serving of alcohol shall have proper licensing per the Michigan Liquor Control Commission.
- (i) All serving of food shall have all permits as required by the Livingston County Health Department.
- (j) Hours of operation are 10 a.m. to 41-10 p.m. maximum (for music) and midnight for the event.
- (k) Events to be allowed include weddings, birthdays, anniversaries, family reunions, graduation events, non-profit or fundraising events, holiday celebrations, or similar.
- (I) The maximum number of events is one large event (greater than 50 persons) and one small event as defined below(smaller than 50 persons) per weekend (Friday through Sunday), and only one event per date; no concurrent events. Events cannot exceed the maximum occupancy of the building where the event is held but in no case more than 300 persons, or less if more stringent capacity limitations are placed on the structure by the Township Building Official.

a. Small events: 3.25 persons per acre or fewer

(I)b.Large events: more than 3.25 persons per acre

- (m) Tents are only to be utilized for wedding ceremonies, in inclement weather, but the reception must be inside the barn.
- (n) Only one event barn is allowed on the property, and the event is to be held inside other than wedding ceremonies which can have outside ceremonies.
- (o) A representative of the owner must be available and onsite for contact during any event. Said person is responsible for ensuring compliance with all applicable Township ordinances and permits. The owner must maintain current contact information for the onsite responsible person

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on file with the Township. The owner shall make every effort to encourage patrons to drive slowly and respectfully on their way to and from the facility.

Addition to Sec. 38-135. Schedule of use regulations.

Event barns are permitted as a special approval use in the GB, RE, RF, R3, and R2 zoning districts.

Addition to Sec. 38-312. Off-street parking space requirements.

USE	Required number of parking spaces	Unit of measure
Commercial		
Event barn	1	Per three (3) guests for large
		<u>events</u>
	1	Per employee