CITY OF BERKLEY PUBLIC NOTICE REGULAR CITY COUNCIL MEETING Monday, October 3, 2022 7:00 P.M. – City Hall 248-658-3300

CALL 39th COUNCIL TO ORDER APPROVAL OF AGENDA INVOCATION – REVEREND MANDY BEAL PLEDGE OF ALLEGIANCE PUBLIC COMMENT ORDER OF BUSINESS

Consent Agenda

- 1. <u>APPROVAL OF THE MINUTES</u>: Matter of approving the minutes of the 39th Regular City Council meeting on Monday, September 19, 2022.
- 2. ORDINANCE NO. O-05-22: Matter of considering the Second Reading and Adoption of an Ordinance of the City Council of the City of Berkley, Michigan to amend Section 94-7, Signs Requiring Permits and Section 94-12, Nonconforming Signs, in Chapter 94, Signs, of the City of Berkley Code of Ordinances to allow for signs for multi-tenant buildings and allow copy on nonconforming signs to be replaced.
- 3. PROCLAMATION NO. P-33-22: Matter of proclaiming October 10, 2022 as Indigenous Peoples Day.
- 4. **RESOLUTION NO. R-20-22**: Matter of adopting a resolution recognizing Joe Ozanich for achieving the rank of Eagle Scout
- 5. <u>RESOLUTION NO. R-21-22</u>: Matter of adopting a resolution recognizing Ian Burmeister for achieving the rank of Eagle Scout.

Regular Agenda

- 1. **RECOGNITIONS/PRESENTATIONS:** Matter of any recognitions or presentations from the Consent Agenda.
- 2. MOTION NO. M-91-22: Matter of approving marihuana business license #PMA20-0029 for Seven Points Dispensing of Michigan LLC to be located at 28557 Woodward Ave.
- 3. MOTION NO. M-92-22: Matter of approving marihuana adult use retailer business license #PMA20-0003 for Operation Grow, LLC/dba Butter, at 2222 W. Eleven Mile Road. The applicant was previously approved on July 18, 2022 for a medical marihuana provisioning center business license at the same location.
- 4. MOTION NO. M-93-22: Matter of authorizing Hubbell, Roth & Clark (HRC) for professional design and engineering services related to the Wiltshire Road Improvement and Water Main Replacement Project at a cost not to exceed \$176,621.02. Funding has been allocated in the Road Millage and Water Service accounts 313-938-821-000 and 592-536-821-000.
- 5. MOTION NO. M-94-22: Matter of adopting the MDOT Performance Resolution as part of an MDOT Annual Right Of Way Permit.
- ORDINANCE NO. O-04-22: Matter of considering the Second Reading and Adoption of an Ordinance of the City Council of the City of Berkley, Michigan to amend Article II of Chapter 90, Planning Commission, of the City of Berkley Code of Ordinances to reduce the size of the Planning Commission from 9 to 7 members.
- 7. MOTION NO. M-95-22: Matter of authorizing the City Manager to sign the Application for Additional Service Credit Purchase for Rebecca Stout approving two years of additional generic service credit. This purchase is allowed by the City of Berkley MERIT System of Human Resource Management Section 1001.08 and

meets all of the requirements of the MERS Plan Document which would allow for this service credit purchase.

COMMUNICATIONS

ADJOURN

Note: The City of Berkley will provide necessary reasonable auxiliary aids and services, such as signers for the hearing impaired and audio tapes of printed materials being considered at the meeting, to individuals with disabilities at the meeting upon four working days' notice to the City. Individuals with disabilities requiring auxiliary aids or services should contact the City by writing or calling: Victoria Mitchell, ADA Contact, Berkley City Hall, 3338 Coolidge Highway, Berkley, MI 48072 (1-248-658-3310).

Note: Official minutes of City Council Meetings and supporting documents for Council packets are available for public review in the City Clerk's Office during normal working hours. Anyone wishing to submit correspondence for the meeting may send an email to clerk@berkleymich.net or call 248-658-3310 by 5 p.m. on the day of the meeting.

THE REGULAR MEETING OF THE THIRTY-NINTH COUNCIL OF THE CITY OF BERKLEY, MICHIGAN WAS CALLED TO ORDER AT 7:00 PM ON MONDAY, SEPTEMBER 19, 2022 BY MAYOR TERBRACK

PRESENT: Steve Baker Bridget Dean

Ross Gavin Dennis Hennen Natalie Price Jessica Vilani

Daniel Terbrack

APPROVAL OF AGENDA

Councilmember Baker moved to approve the Agenda Seconded by Councilmember Vilani Ayes: Dean, Gavin, Hennen, Price, Vilani, Baker, and Terbrack Nays: None Motion Approved.

INVOCATION: Pastor Zack Dunlap

PUBLIC COMMENT

Berkley Downtown Development Authority Executive Director Michael McGuinness stated, "Make no bones about it, Berkley is ready for the BOO!KLEY season. He said downtown stakeholders interested in putting a spin on a skeleton this season should contact the Downtown Development Authority. He said those interested may pick up a skeleton or have it dropped off to then adorn it with a specialized vibe or choose from an area organization to represent. Mr. McGuinness announced the different BOO!KLEY Booster sponsorship opportunities are available as a monetary way to get involved. For more information, visit downtownberkley.com.

Consent Agenda

Councilmember Price moved to approve the following Consent Agenda, seconded by Councilmember Baker:

<u>APPROVAL OF THE MINUTES</u>: Matter of approving the minutes of the 39th Regular City Council meeting on Monday, August 8, 2022 and Special City Council meeting on August 15, 2022.

WARRANT: Matter of approving Warrant No. 1377 and Warrant No. 1378.

MOTION NO. M-85-22: Matter of approving the 2022-2023 Winter Maintenance Agreement between the Road Commission for Oakland County and the City of Berkley. The City will be reimbursed a total of \$11,735.26 which will be paid in two installments, \$5,867.63 due in December 2022 and \$5,867.63 due in March 2023.

PROCLAMATION NO. P-28-22: Matter of proclaiming October 2022 as Berkley Area Chamber of Commerce Month.

PROCLAMATION NO. P-29-22: Matter of proclaiming October 2022 as National Breast Cancer Awareness Month.

PROCLAMATION NO. P-30-22: Matter of proclaiming October 2022 as National Cybersecurity Awareness Month.

PROCLAMATION NO. P-31-22: Matter of proclaiming October 2022 as National Disability Employment Awareness Month.

<u>PROCLAMATION NO. P-32-22</u>: Matter of proclaiming and celebrating the American Library Association's Banned Books Week from September 18 to September 24 at Berkley Public Library.

Ayes: Gavin, Hennen, Price, Vilani, Baker, Dean, and Terbrack

Nays: None Motion Approved.

Regular Agenda

RECOGNITIONS/PRESENTATIONS: Matter of any recognitions or presentations from the Consent Agenda.

- 1. Councilmember Vilani read P-28-22 in its entirety. Berkley Area Chamber Board President Tim Murad and Berkley Area Chamber Executive Director Darlene Rothman were present to receive the proclamation. They provided updates on past and upcoming events and promotions. A notable item included that Art Bash attendance was as big as ever which was nice following the pandemic and the challenges it posed. They thanked Oakland County for a grant that helped the Chamber through the tough times. They said upcoming activities and promotions include Berk Perks and a partnership with the Historical Committee to offer a kit house tour. They said they are always looking for volunteers and thanked everyone who has partnered with the Chamber and said none of the support is taken for granted. They discussed the importance of partnerships to support Berkley.
- 2. Councilmember Price read P-32-22 in its entirety. Library Director Matt Church thanked Council for the proclamation. He introduced the Library Board members who were in attendance at the meeting and said they all support this proclamation. He said at the library they are all about free choice on what you want to read, listen to, or watch. He said they want to make everything available to the community. He reiterated his thanks to Council for the support.

RESOLUTION NO. R-15-22: Matter of recognizing Myke Hunyor and his 17-year commitment to the City of Berkley.

Councilmember Vilani moved to approve Resolution No. R-15-22

Seconded by Councilmember Hennen

Ayes: Hennen, Price, Vilani, Baker, Dean, Gavin, and Terbrack

Nays: None Motion Approved.

MOTION NO. M-86-22: Matter of approving the Department of Public Safety to enter into a 10-year agreement for an equipment refresh "Bundle" from Axon Enterprise, Inc. This bundle includes 32 Body Worn Cameras (BWC), 32 Taser 7 Electro-Muscular Disruption (EMD) weapons, 13 Axon Fleet In-Car Cameras, Axon VR Training platform, all installation, cloud based storage, redaction software, training, and accessories, for the yearly fee of \$100,438.31 from Axon Enterprise Inc., 17800 N 85th St., Scottsdale, AZ 85255. Axon Enterprise, Inc. is a sole source provider. Funds for the purchase of Taser 7 and BWCs are budgeted in the Equipment Account 101-310-982-000.

Councilmember Gavin moved to approve Motion No. M-86-22

Seconded by Councilmember Baker

Ayes: Price, Vilani, Baker, Dean, Gavin, Hennen, and Terbrack

Nays: None Motion Approved.

MOTION NO. M-87-22: Matter of approving applicant for issuance of a Development District On-Premise Liquor License under Section 521a (1)(b) of 2006 PA 501 (MCL 436.1521a (1)(b)). Applicant: Berg's Provisions LLC d/b/a Mongers' Provisions, 3127 12 Mile Road, Berkley, MI.

Councilmember Baker moved to approve Motion No. M-87-22

Seconded by Mayor Pro Tem Dean

Ayes: Vilani, Baker, Dean, Gavin, Hennen, Price, and Terbrack

Nays: None Motion Approved.

MOTION NO. M-88-22: Matter of authorizing the Berkley Instrumental Boosters/Orchestra Association, 2325 Catalpa Drive, Berkley, Michigan, to conduct Berkley Tag Days 2022 in the City of Berkley on Friday, October 14th from 4-9 p.m., Saturday October 15th from 9 a.m.-5 p.m., and Sunday, October 16th from 9 a.m.-5 p.m.

Councilmember Hennen moved to approve Motion No. M-88-22

Seconded by Councilmember Vilani

Ayes: Baker, Dean, Gavin, Hennen, Price, Vilani, and Terbrack

Nays: None Motion Approved.

MOTION NO M-89-22: Matter of approving the appointments to various boards and commissions.

Councilmember Gavin moved to approve Motion No. M-89-22

Seconded by Mayor Pro Tem Dean

Ayes: Dean, Gavin, Hennen, Price, Vilani, Baker, and Terbrack

Nays: None Motion Approved.

<u>MOTION NO. M-90-22</u>: Matter of authorizing the Mayor to execute a contract between SMART and the City of Berkley for Fiscal Year 2023 for Municipal Credit and Community Credit funds in order to provide public transportation services for the period of July 1, 2022 to June 30, 2023.

Mayor Pro Tem Dean moved to approve Motion No. M-90-22

Seconded by Councilmember Price

Ayes: Gavin, Hennen, Price, Vilani, Baker, Dean, and Terbrack

Nays: None Motion Approved.

<u>PRESENTATION</u>: Matter of receiving a presentation on the 2021 Community Development Department Annual Report.

Community Development Director Kristen Kapelanski stated the Michigan Planning and Enabling Act requires an annual report each year. She said it is also a requirement of the Redevelopment Ready certification. She said Council does not need to take any action, but she is present with the annual report to answer any questions. She said one of the highlights is that the department has continued to provide excellent customer service despite the many changes.

RESOLUTION NO. R-16-22: Matter of adopting the Berkley Downtown Master Plan.

Councilmember Baker moved to approve Resolution No. R-16-22

Seconded by Councilmember Vilani

Ayes: Hennen, Price, Vilani, Baker, Dean, Gavin, and Terbrack

Nays: None Motion Approved.

RESOLUTION NO. R-17-22: Matter of considering updates to the Berkley Fee Schedule, effective October 1, 2022.

Mayor Pro Tem Dean moved to approve Resolution No. R-17-22

Seconded by Councilmember Hennen

Ayes: Price, Vilani, Baker, Dean, Gavin, Hennen, and Terbrack

Nays: None Motion Approved.

ORDINANCE NO. O-04-22: Matter of considering the First Reading of an Ordinance of the City Council of the City of Berkley, Michigan to amend Article II of Chapter 90, Planning Commission, of the City of Berkley Code of Ordinances to reduce the size of the Planning Commission from 9 to 7 members.

Councilmember Gavin moved to approve Ordinance No. O-04-22

Seconded by Mayor Pro Tem Dean

Ayes: Vilani, Baker, Dean, Gavin, Hennen, Price, and Terbrack

Nays: None Motion Approved.

ORDINANCE NO. O-05-22: Matter of considering the First Reading of an Ordinance of the City Council of the City of Berkley, Michigan to amend the First Reading of an ordinance to amend Section 94-7, Signs Requiring Permits and Section 94-12, Nonconforming Signs, in Chapter 94, Signs, of the City of Berkley Code of Ordinances to allow for signs for multi-tenant buildings and allow copy on nonconforming signs to be replaced.

Mayor Pro Tem Dean moved to approve Ordinance No. O-05-22

Seconded by Councilmember Hennen

Ayes: Baker, Dean, Gavin, Hennen, Price, Vilani, and Terbrack

Nays: None Motion Approved.

RESOLUTION NO. R-18-22: Matter of authorizing the amendment of the 2022-2023 Operating Budget as presented.

Councilmember Gavin moved to approve Resolution No. R-18-22

Seconded by Councilmember Hennen

Ayes: Dean, Gavin, Hennen, Price, Vilani, Baker, and Terbrack

Nays: None Motion Approved.

RESOLUTION NO. R-19-22: Matter of approving the Resolution to amend the Public Safety Collective Bargaining Agreements to add standardized language necessary in order to maintain the Qualified Status of the Public Safety Pension System under the provisions of the U.S. Internal Revenue Code.

Councilmember Price moved to approve Resolution No. R-19-22

Seconded by Councilmember Vilani

Ayes: Gavin, Hennen, Price, Vilani, Baker, Dean, and Terbrack

Nays: None Motion Approved.

COMMUNICATIONS

COUNCILMEMBER HENNEN: stated the Tree Board will meet 7 p.m. Monday, September 26th on the second floor of the Public Safety Building. He said the Zoning Board of Appeals (ZBA) met in August and approved an addition on a triangular lot. He stated that really is a textbook case of why the ZBA exists as only two triangular lots exist in the City. He said the ZBA didn't have any cases in September but will meet 7 p.m. October 10th inside City Council Chambers to hear a request for a home addition. Councilmember Hennen said his next Talk with Dennis event will take place 6-8 p.m. Thursday, October

6th at the Berkley Public Library. He said people are welcome to stop by any time during that time frame.

He said Covid boosters are here and available to nearly everyone 12 and up. He encouraged everyone to think about the Pfizer and Moderna boosters that cover both the original strain and the newer variants. He encouraged everyone to also think about getting their flu shot soon.

COUNCILMEMBER PRICE: stated last week she had the privilege of attending a joint meeting of the Citizens Engagement Advisory Committee and Technology Advisory Committee. She said the combination of new and familiar faces as well as the breadth and depth of personal and professional experiences was impressive. She said she looks forward to the results of their collaborative work on the brand refresh and the new website. Councilmember Price said the Berkley Public Library Board will meet 7 p.m. Wednesday at the library. She said they will review the Board's establishing ordinance, the materials selection policy, and a draft letter from them supporting the Patmos Library Board of Trustees. She stated we are very fortunate to have such engaged and passionate members of our Library Board who are also committed to advocating on behalf of intellectual freedom, access to a diverse selection of materials, and the many benefits to our society that libraries provide. She thanked the Library Board members for their dedication and support of our beloved Berkley library.

COUNCILMEMBER BAKER: wished everyone a happy September. He stated the Historical Committee met last week on Tuesday the 13th continuing preparations for the 100th anniversary as a village, which was 1923. He said the Committee welcomes any photos and stories people would like to share anywhere along that journey as a village. He said in addition to Facebook, the Committee is now on Twitter and Instagram, @BerkleyHistoricalMuseum. He stated the Berkley Historical Museum is open 10 a.m.-1 p.m. Wednesdays and 2-4 p.m. Sundays. He stated you can also visit the Museum online at berkleyhistory.com. Councilmember Baker said the Downtown Development Authority Board of Directors met the next day on the 14th. He stated one of the many conversations taking place included the Coolidge crosswalks. He said the Board remains committed and dedicated to seeing those safely and properly reopened for the benefit of our residents, shoppers, and students. He said we are coming up on the wonderful month of October and the BOO!KLEY events are coming up soon. He stated some of the highlights will include Restaurant Weekend Sept. 30th-Oct 1st, Witches Night Out on Oct. 13th, BOO!KLEY Ghost Chase on Oct. 21st, and the Trick-or-Treat Stroll on Oct. 29th along with the Monster Mash where a portion of Coolidge will be closed off for safe terror! For more information or to become a sponsor, visit downtownberkley.com. Councilmember Baker said it was Helen Keller who wrote, "Optimism is the faith that leads to achievement. Nothing can be done without hope and confidence." He said as summer wraps up and we look to the fall, let's focus on the ways this year has been great thus far and what each of us can do to make autumn equally great if not better. He said together we can make our own lives and those around us, including the city, even better. Councilmember Baker said to stay safe and hug someone you love because they need it more than you think they do.

MAYOR PRO TEM DEAN: thanked everyone who supported and enjoyed the Parks and Recreation concert series, movies, and more this summer. She stated she popped into a couple of the events and said it was beautiful to see the families watching a movie while the kids played on playground equipment. She said she can't say enough about the great things the Parks and Recreation Department brings to the community. She also thanked the sponsors for making the events possible and free for the public to attend. Mayor Pro Tem Dean said the Touch a Truck event will take place 10 a.m.-noon Saturday, October 1st in the Community Center parking lot with a sensory-friendly half-hour from 9:30-10 a.m. She said no registration is required. She stated Tale on the Trail is October 20th at Oxford Park. She said registration is required and space is limited. She said the popular senior exercise class is back from 9:30-10:30 a.m. on Tuesdays and Fridays at the Community Center. She said no registration is required, but there is a \$2 drop-in fee. She said for more fall recreation classes, visit recreation.Berkleymich.org or stop by the Community Center.

<u>COUNCILMEMBER GAVIN</u>: quipped that planning was a hot topic of discussion during the meeting tonight so he would keep his Planning Commission update brief. He said the Planning Commission next

meets 7 p.m. September 27th in the Council Chambers. He said the Environmental Advisory Committee met last week and discussed short- and long-term goals for the community ranging from community education efforts to stormwater management policies to a sustainability plan to a community garden. He said a lot of great topics were discussed and many more that were not named. He stated the EAC next meets 6:30 p.m. Oct. 20th on the second floor of the Public Safety Building.

<u>COUNCILMEMBER VILANI</u>: echoed councilmember Price's comments on the joint Citizens Engagement Advisory Committee and Technology Advisory Committee meeting. She said she is excited to see what they have in store there. Councilmember Vilani reiterated the Berkley Area Chamber of Commerce commentary about the Berk Perk discount card program from earlier in the meeting. She said the cards will be going on sale soon and will provide discounts on dining and shopping at local Berkley businesses.

CITY MANAGER BAUMGARTEN: stated those visiting City Hall in the past couple of weeks noticed a new look as City Hall updated its counter space, at least quadrupling the amount of space to service our residents. He said it also allowed for changes to the internal work flow swapping the treasury and community development departments. He thanked the residents for their patience as City Hall was closed the week following Labor Day in order to complete the project in a timely manner. He said people were very supportive as the progress was shared through photos with the community. He said he could not be happier with all of the support and thanked staff too for being so open to the change. He said Council Chambers was completely filled with office contents during the process and systematically brought everything out and put it back in place in order to be ready to serve residents the next Monday. He thanked Facilities Manager Alex Brown for coordinating the project with external vendors to make it a success. He encourages everyone to visit City Hall and he hopes everyone will enjoy the new look, security, and service benefits. He further thanked Council for making the resources available to do so. Mayor Terbrack asked him about his attendance at Ford Field. City Manager Baumgarten said not only did the Lions win, but our very own Berkley Steelers ages 8-10 tackle program played on Ford Field against the Reed City Coyotes after the game. He said it was a great opportunity to bring out about 100+ members of our community to cheer them on and a couple of kids scored a touchdown on Ford Field which is a memory they will never shake. He thanked everyone for making the outing possible.

<u>CITY ATTORNEY STARAN:</u> thanked Mr. McGuinness for finding his doppelgänger to sit next to him during the meeting. He said the City Attorney's Office has been keeping very busy despite it being the summer season. He said he has been working on many ordinances, legal issues, complicated FOIA requests and pending litigation that is working its way through the system. He said administration is very busy trying to do good things for the City.

MAYOR TERBRACK: said his comments are also on the theme of ending the summer and moving into the fall and looking back at all of the incredible things we did in one of the most "normalish" summers we have had in the past two years. He said hearing from our finance director that revenues were surprisingly up and hearing about a lot of the things we were able to do like summer festivals, Art Bash, Lids for Kids, block parties, ribbon cuttings, and concerts, so many things that were able to happen in our community over the summer is important to remember. He said it was a tremendous summer and now kids are back in school. He said it was a very special summer and it wouldn't have happened without our incredible directors, staff, volunteers, and residents. He said that is what makes us Berkley and what makes Berkley special. He said he looks forward to attending those events again next summer and the events coming up in the fall. Mayor Terbrack said it was a very impactful and memorable summer for our community.

ADJOURNMENT

Councilmember Baker moved to adjourn the Regular Meeting at 9:01 p.m.

Seconded by Mayor Pro Tem Dean Ayes: Price, Vilani, Baker, Dean, Gavin, Hennen, and Terbrack

Nays: None Motion Approved.



AN ORDINANCE

of the City Council of the City of Berkley, Michigan to Amend Section 94-7, Sign Requiring Permits and Section 94-12, Nonconforming Signs, in Chapter 94, Signs, of the City of Berkley Code of Ordinances to Allow for signs for multi-tenant buildings and allow copy on nonconforming signs to be replaced.

THE CITY OF BERKLEY ORDAINS:

SECTION 1: Section 94-7 of Chapter 94 of the Berkley City Code shall be amended, as follows:

Sec. 94-7. Signs requiring permits

(a) Number permitted. For each side of street frontage, one sign requiring a permit shall be permitted.

(b) Awning signs.

Districts Permitted	Maximum Sign Area	Vertical Clearance from Ground Level	Maximum Projection into Right-of-Way	Other Regulations
Multiple Family Residential, High Rise Multiple Family Residential, Office, Downtown, Gateway Twelve Mile, Coolidge, Local Business, Woodward, Eleven Mile, Industrial	10% of adjoining wall; see other regulations for additional regulations based on the number of tenants in a building up to 100 square feet	Rigid Construction: 8 feet Soft Canvas: 7 feet	5 feet	For buildings with a single tenant, the maximum sign area is 100 square feet or 10% of adjoining wall, whichever is less. For buildings with more than one business in occupancy, the permitted signage for each business shall be less than or equal to 50% of the permitted signage. Using the area of the adjacent wall associated with the business, the total area of all signs for each business in a multi-tenant building must be equal to or less than the maximum sign area in this table or 100 square feet, whichever is less.

(c) Monument signs.

Districts Permitted	Maximum Sign Area	Maximum Height	Minimum Setback	Other Regulations
Single Family Residential, R-2,	15 square feet per sign face	3.5 feet	3 feet	In single family residential districts,

Red, strikeout text is proposed to be deleted: example

Red text is proposed to be inserted: example

Districts Permitted	Maximum Sign Area	Maximum Height	Minimum Setback	Other Regulations
Multiple Family Residential, Greenfield				signs are permitted for institutional uses. For buildings with more than one business in occupancy, a single sign may be installed per building in addition to any individual signs for tenants.
High Rise Multiple Family Residential, Office, Local Business, Twelve Mile, Coolidge, Eleven Mile Industrial, Woodward Cemetery	40 square feet per sign face 50 square feet per sign face	7 feet	3 feet	
Parking	15 square feet per sign face	3.5 feet	3 feet	

(d) Pole signs.

Districts Permitted	Maximum Sign	Maximum Height	Minimum Setback	Other Regulations
	Area			
	40 square feet per sign face	20 feet	5 feet	For buildings with more than one business in occupancy, a single sign may be installed per building in addition to any individual signs for tenants.

(e) Pylon signs.

Districts Permitted	Maximum Sign Area	Maximum Height	Minimum Setback	Other Regulations
Office, Local Business, Gateway, Twelve Mile, Coolidge, Industrial, Eleven Mile	40 square feet per sign face	10 feet	3 feet	For buildings with more than one business in occupancy, a single sign may be installed per building in addition to any individual signs for tenants.
Woodward, cemetery	50 square feet per sign face	10 feet	3 feet	
Parking	15 square feet per sign face	8 feet	3 feet	

(f) Projecting signs.

Districts	Maximum Sign	Vertical Clearance	Maximum	Other Regulations
Permitted	Area	from Ground	Projection into	
		Level	Right-of-Way	
Office, Downtown, Local Business, Gateway, Twelve Mile, Coolidge, Woodward, Industrial, Eleven Mile	10% of adjoining wall; up to 100 square feet see other regulations for additional regulations based on the number of tenants in a building	Rigid Construction: 8 feet Soft Canvas: 7 feet	5 feet	For buildings with a single tenant, the maximum sign area is 100 square feet or 10% of adjoining wall, whichever is less. For buildings with more than one business in occupancy, the permitted signage for each business shall be less than or equal to 50% of the permitted signage. Using the area of the adjacent wall associated with the business, the total area of all signs for each business in a multi-tenant building must be equal to or less than the maximum sign area in this table or 100 square feet, whichever is less.

(g) Roof signs.

Districts	Maximum Sign Area	Maximum Height	Other Regulations
Permitted			

Office,	10% of adjoining wall ;	No higher than roof	For buildings with a single tenant,
Downtown,	up to 100 square feet	structure	the maximum sign area is 100
Local	See other regulations for		square feet or 10% of adjoining
Business,	additional regulations		wall, whichever is less.
Woodward,	based on the number of		
Industrial	tenants in a building.		For buildings with more than one
	_		business in occupancy, the permitted
			signage for each business shall be
			less than or equal to 50% of the
			permitted signage. Using the area of
			the adjacent wall associated with the
			business, the total area of all signs
			for each business in a multi-tenant
			building must be equal to or less
			than the maximum sign area in this
			table or 100 square feet, whichever
			is less.

(h) Wall signs.

Districts Permitted	Maximum Sign Area	Other Regulations
Single Family Residential, R-2, Multiple Family Residential, Greenfield	6 square feet	In single family residential districts, signs are permitted for institutional uses. For buildings with more than one business in occupancy, the permitted signage maximum sign area for each business shall be less than or equal to 50% of the permitted signage 6 square feet. The total sign area must be equal to or less than 18 square feet.
High Rise Multiple Family Residential, Office, Downtown, Local Business, Gateway, Twelve Mile, Coolidge, Eleven Mile, Woodward, Industrial	10% of adjoining wall; up to 100 square feet see other regulations for additional regulations based on the number of tenants in a building	For buildings with a single tenant, the maximum sign area is 100 square feet or 10% of adjoining wall, whichever is less. For buildings with more than one business in occupancy, the permitted signage for each business shall be less than or equal to 50% of the permitted signage. Using the area of the adjacent wall associated with the business, the total area of all signs for each business in a multi-tenant building must be equal to or less than the maximum sign area in this table or 100 square feet, whichever is less.

SECTION 2: Section 94-12 of Chapter 94 of the Berkley City Code shall be amended, as follows:

Section Sec. 94-12. Nonconforming Signs

No nonconforming sign or its support structure:

- (1) Shall be replaced by another nonconforming sign;
- (2) Shall have any changes made in the words or symbols used or the message displayed on the sign; Shall be structurally altered so as to prolong the life of the sign or so as to change the shape, size, type, or design of the sign;
- (3) Shall be reestablished after the activity, business, or usage to which it relates has been discontinued for 90 days or longer;
- (4) Shall be reestablished after damage or destruction if the estimated expense of reconstruction exceeds 35 percent of the appraised replacement cost.

The words or symbols used, or the message displayed on a nonconforming sign, or its support structure may be replaced as long as the nonconformity is not increased.

SECTION 3: Severability Clause

Should any word, phrase, sentence, paragraph, or section of this Ordinance be held invalid or unconstitutional, the remaining provisions of this ordinance shall remain in full force and effect.

SECTION 4: Penalty

All violations of this ordinance shall be municipal civil infractions and upon determination of responsibility therefore shall be punishable by a civil fine of not more than \$500, and/or such other sanctions and remedies as prescribed in Article IX of Chapter 82 of the Code of Ordinances.

SECTION 5: Effective Date

This Ordinance shall become effective 30 days following the date of adoption.

SECTION 6: Publication

The City Council directs the City Clerk to publish a summary of this ordinance in compliance with Public Act 182 of 1991, as amended, and Section 6.5 of the Berkley City Charter.

Introduced on the First Reading at the Regular City Council Meeting on Monday, September 19, 2022.

Passed on the Second Reading at the Regular City Council Meeting on Monday, October 3, 2022.

	Daniel J. Terbrack, Mayor
Attest:	
Victoria Mitchell, City Clerk	



MEMORANDUM

To: City Council

From: Kristen Kapelanski, Community Development Director

Subject: Proposed Amendments to Sections 94-7 and 94-12 of the City Code: Second Reading

Date: September 28, 2022

Proposed are amendments to the Sign Ordinance of the City Code to address outdated provisions that neglected to account for multi-tenant building signage and prevented new and existing business owners from providing updated signage to identify their new business or aesthetically update existing signage.

The ordinance currently limits all buildings to a maximum sign area of 10% of the wall area up to 100 square feet, which does not account for multi-tenant businesses where signage for several tenants can easily exceed 100 square feet. Staff proposes leaving this standard in place for single tenant buildings but also including standards for multi-tenant buildings that permit each tenant signage equal to 10% of their 'façade area' or 100 square feet, whichever is less.

Secondly, the amendment proposes the removal of a provision prohibiting a business from making changes to the copy of non-conforming signs. Presently, each time a change in text to a non-conforming sign is proposed, the applicant must appear before the Zoning Board of Appeals. This would allow new and existing businesses to update the text on their existing sign through the typical sign permitting process via staff.

The first reading of the amendment was approved by the City Council on September 19, 2022. No changes were requested at that meeting and no changes have been made.

A PROCLAMATION

of the Council of the City of Berkley, Michigan Proclaiming October 10, 2022, as Indigenous Peoples Day

- WHEREAS, the idea of Indigenous Peoples Day was first proposed in 1977 by a delegation of Native Nations to the United Nations-sponsored International Conference on Discrimination Against Indigenous Populations in the Americas; and
- WHEREAS, in 1990, representatives from 120 Indigenous Nations at the First Continental Conference on 500 Years of Indian Resistance unanimously passed a resolution to transform Columbus Day into an opportunity to reveal historical truths about preexisting indigenous cultures that have survived an often-violent colonization process and continue to exist and thrive in present-day America; and
- WHEREAS, the United States endorsed the United Declaration on the Rights of Indigenous Peoples on December 16, 2010, and Article 15 of that declaration states:
 - Indigenous peoples have the right to the dignity and diversity of their cultures, traditions, histories, and aspirations, which shall be appropriately reflected in education and public information.
 - States should take effective measures, in consultation and cooperation with the
 indigenous peoples concerned, to combat prejudice and eliminate discrimination,
 and to promote tolerance, understanding, and good relations among Indigenous
 peoples and all other segments of society; and
- WHEREAS, the state of Michigan recognizes the presence of the three major groups in the state today, the Chippewa (Ojibwe), Ottawa (Odawa), and Potawatomi (Bodéwadmik), who have lived upon this land since time immemorial, and values the progress our society has accomplished through Native American thought and culture; and
- WHEREAS, the Tribal Council of the Grand Traverse Band of Ottawa and Chippewa Indians has passed a resolution to officially recognize Indigenous Peoples Day on the second Monday in October; and
- WHEREAS, the resolution states that Indigenous Peoples Day shall be used to reflect upon the ongoing struggles of Indigenous peoples on this land, and to celebrate the thriving cultures and values that the Odawa, Ojibwe, Potawatomi, and other indigenous peoples contribute to society; and
- WHEREAS, on this second Monday of October, we should honor the historic, cultural, and contemporary significance of Indigenous peoples and their ancestral lands that also became known as the Americas and celebrate their contributions to communities throughout Michigan, the United States, and all over the world.

NOW, THEREFORE, THE CITY OF BERKLEY HEREBY PROCLAIMS

SECTION 1: That the day of October 10, 2022, is hereby proclaimed as *Indigenous Peoples Day* in the City of Berkley.

Proclaimed this 3rd day of October 2022 at a Regular Meeting of the Berkley City Council.

	Daniel J. Terbrack, Mayor	
Attest:		
Victoria Mitchell, City Clerk		

A RESOLUTION Of the council of the City of Berkley, Michigan Recognizing Joe Ozanich for achieving the rank of Eagle Scout

- WHEREAS, Joe Ozanich will graduate from Berkley High School in 2023 and has participated in The Berkley High School Marching Band, also serving as the Marching Band section leader, Jazz Band, and National Honors Society; and
- WHEREAS, Joe Ozanich has been active in scouting for the past 11 years, earning the rank(s) of Scout, Tenderfoot, Second Class, First Class, Star, Life, Order of the Arrow, and has served as the Assistant Senior Patrol Leader, Patrol Leader, and Bugler of Troop 1085; and
- WHEREAS, Joe Ozanich is planning to attend Lake Superior State University, in the fall with the intent to major in Criminal Justice; and
- WHEREAS, Joe Ozanich, to attain the rank of Eagle Scout, worked with Angell Elementary School to build an outdoor classroom to celebrate its 100th anniversary of being a school; and
- **WHEREAS,** Joe Ozanich passed his Eagle Board of Review on August 29, 2022. Joe Ozanich has earned a total of 27 merit badges.

NOW, THEREFORE, THE CITY OF BERKLEY HEREBY PROCLAIMS

SECTION 1: That the City Council does hereby recognize and congratulates

Joe Ozanich

For his achievement in attaining the rank of Eagle Scout and expresses our pride in his accomplishments as a role model for others.

Proclaimed this 3rd day of October 2022 at a Regular Meeting of the Berkley City Council.

	_		
Attest:	Daniel J. To	erbrack, Mayor	•

Victoria Mitchell, City Clerk

A RESOLUTION Of the council of the City of Berkley, Michigan Recognizing Ian Burmeister for achieving the rank of Eagle Scout

- **WHEREAS,** Ian Burmeister will graduate from Berkley High School in 2024 and has participated in The Berkley High School Marching Band, National Honors Society and Screen Writers Club; and
- WHEREAS, Ian Burmeister has been active in scouting for the past 11 years, earning the rank(s) of Arrow of Light, Tenderfoot, Second Class, First Class, Star, and Life, and has served as the Troop Historian, Patrol Leader, Assistant Senior Patrol Leader, and Senior Patrol Leader of Troop 1085; and
- WHEREAS, Ian Burmeister, to attain the rank of Eagle Scout, worked with Berkley First Methodist Church, Bikes 4 Kids, Yad Ezra, Building Beds 4 Kids, and Berkley Public Schools; and
- **WHEREAS,** Ian Burmeister passed his Eagle Board of Review on June 20, 2022. Ian Burmeister has earned a total of 38 merit badges, 13 of them being Eagle required which are some of the most difficult in Scouting. Ian Burmeister is one of the 4% to achieve this honor nationally.

NOW, THEREFORE, THE CITY OF BERKLEY HEREBY PROCLAIMS

SECTION 1: That the City Council does hereby recognize and congratulates

Ian Burmeister

For his achievement in attaining the rank of Eagle Scout and expresses our pride in his accomplishments as a role model for others.

Proclaimed this 3 rd	day of Oct	tober 2022 i	at a Regular	Meeting of	of the Berkley	City Council.

	Daniel J. Terbrack, Mayor
Attest:	
Victoria Mitchell, City Clerk	

October 3, 2022 City Council Meeting

Moved by Councilmember_	and seconded by Councilmember
to	o approve marihuana business license #PMA20-0029 for Seven Points
Dispensing of Michigan LLC	to be located at 28557 Woodward Ave.
Ayes:	
Nays:	
Motion:	

Application Number	Applicant Entity	Principal Address	Final Score as Adopted by City Council on January 18, 2022					
PMA20-0003	Operation Grow / butter	2222 W. Eleven Mile Road	315					
PMA20-0015	Quality Roots	3916 W. Eleven Mile Road	310					
PMA20-0007	Yellow Tail Ventures LLC #1	3120 Eleven Mile	301					
PMA20-0010	Attitude Wellness dba Lume	1949 Twelve Mile Road	301					
PMA20-0029	Seven Points Dispensing of Michigan LLC	28557 Woodward Ave	301					
PMA20-0025	Berkley Corners PRV LLC	28297 Woodward Ave.	297					
PMA20-0011	Green Bronco III	2200 W. Eleven Mile Road	296					
PMA20-0013	FPAW Michigan LLC	3750 W. Eleven Mile Road	289					
PMA20-0024	3895 Euclid LLC dba Dispo	27733 Woodward Ave	286					
PMA20-0002	Bud McCool's	27253 Woodward Ave	281					
PMA20-0031	Oak Flint LLC	27723 Woodward Ave	279					
PMA20-0005	BDE Warren LLC	2033 Coolidge	278					
PMA20-0004	Nature's Remedy	2351 Twelve Mile Road	275					
PMA20-0027	GS Ashley, LLC	3890 W. Eleven Mile Road	274					
PMA20-0016	SJMB	3376 Twelve Mile Road	273					
PMA20-0009	Yellow Tail Ventures LLC #2	28401 & 28453 Woodward	271					
PMA20-0028	Warren Capital Holdings, LLC	2640 Eleven Mile Road	266					
PMA20-0019	Pure Roots	28173 Woodward	265					
PMA20-0023	Grassroots ReLeaf LLC	27423 Woodward AVe.	256					
PMA20-0008	CAK Holdings	4129 Twelve Mile	242					
PMA20-0012	DSD Investors LLC	3515 Twelve Mile Road	226					
PMA20-0021	Leaf Master dba Puff Cannabis	3171 Twelve Mile Road	226					
PMA20-0026	Fire Farm LLC	3670 Twelve Mile Road	217					
PMA20-0030	Candid Labs LLC	28505 Woodward Ave	208					
PMA20-0006	PBG Enterprises dba Pleasantrees	2448 Eleven Mile Road	DNQ					
PMA20-0014	Berkley Herbal Center	3280 W. Eleven Mile Road	DNQ					
PMA20-0017	123 Ventures	1716 Coolidge	DNQ					
PMA20-0018	GS Bay City LLC	3800 W. Eleven Mile	DNQ					
PMA20-0020	Pure Life I	2998 Eleven Mile Road	DNQ					
PMA20-0022	Pure Life II	2114 Eleven Mile Road	DNQ					
	Applicant is able to apply for Site Plan Review be	fore Planning Commission						
	Applicants are tied for third ranking but are able	to apply for Site Plan Review at own ri	sk.					

THE SPECIAL MEETING OF THE BERKLEY CITY PLANNING COMMISSION WAS CALLED TO ORDER AT 7:00 PM, SEPTEMBER 13, 2022 AT BERKLEY CITY HALL BY CO-CHAIR LISA KEMPNER.

The minutes from this meeting are in summary form capturing the actions taken on each agenda item. To view the meeting discussions in their entirety, this meeting is broadcasted on the city's government access channel. WBRK, every day at 9AM and 9PM. The video can also be seen, ondemand, on the city's YouTube channel: https://www.youtube.com/user/cityofberkley

PRESENT: Matteo Passalacqua Shiloh Dahlin

> Joe Bartus Lisa Kempner

ABSENT: Greg Patterson, Lisa Hamameh

ALSO, PRESENT: Kristin Kapelanski, Community Development Director

> John McNally, 1408 Wiltshire, Berkley Ellorie Silver, 1363 Wiltshire, Berkley

Motion by Commissioner Dahlin to excuse the absences of Commissioner Patterson and Commissioner Hamameh. Motion supported by Commissioner Passalacqua.

Voice Vote to approve the absence of Commissioner Patterson and Commissioner Hamameh.

AYES: 4 NAYS: 0

ABSENT: Hamameh, Patterson

MOTION CARRIED

APPROVAL OF AGENDA

Motion by Commissioner Passalacqua to approve the agenda supported by Commissioner Dahlin.

Voice vote to approve the agenda

AYES: 4 NAYS: 0

ABSENT: Hamameh, Patterson

MOTION CARRIED

COMMUNICATIONS

NONE

CITIZEN COMMENTS

NONE

OLD BUSINESS

NONE * * * * * * * * *

* * * * * * * *

NEW BUSINESS

1. PSP-15-22: 28557 Woodward – Seven Point Provisioning Center: The applicant, Seven Point Dispensing of Michigan, LLC on behalf of Greenside Trust, is requesting site plan approval for conversion of an existing building to a retail marihuana dispensary and office use at 28557 Woodward Avenue, Parcel #04-25-17-257-025, on the west side of Woodward Avenue between Wiltshire Road and Franklin Road.

Community Development Director Kapelanski summarized the application, stating that this application does meet all the ordinances and staff is all recommending approval of the plan. Community Development Director Kapelanski stated that she did receive communication after business hours from Mr. Daniel Veres opposing the approval.

Applicant Presentation

Gabe Ruben

Brian Howard

Brian Sinnott

Partner of 7-point dispensing LLC

Architect, HF: architecture

Civil Engineer, Fleece and VandenBrink

David Rozanski Scott Roberts Law

The Applicant, Mr. Ruben reviewed the conditional rezoning application that was withdrawn in the previous application of 1299 Wiltshire and 1276 Franklin. The applicant also described the proposed site plan and floor plan, exterior elevations, parking lot redevelopment incorporating more landscaping, and stormwater management.

The applicant discussed in depth with the Planning Commission about parking and number of employees with the previous parking reports that were presented in prior meetings.

Citizen Comments

Jonas Rymer, 1628 Harvard - Stated he is in support of this plan, it will bring money to the city. He is happy to see that there is a bike rack, repair station, and Mo Go rental. He believes Berkley should be more bicycle friendly and a step in the right direction. He stated that the parking minimum needs to be abolished and a parking maximum put in place. He believes Berkley should become more people centric, providing examples of other cities that have done this.

John McNally, 1408 Wiltshire - Stated that the site plan does not fit the intended use. He stated that the number of employees and security that would be there equal more than the number of parking spaces they have presented. He would like to request that no employee should park on the street and suggested a one-hour parking limit or permitted parking. He also stated that it appeared that the ADA parking space does not meet the minimum requirements.

Mary Glenn, 1350 Franklin - Stated that the rendering is an improvement. She would like to know if the business hours can be changed, is there a possibility that the screen walls can be raised from 6ft to 7ft, if security cameras will be tied into Berkley Public Safety, signage by the benches not to smoke, a left turn only onto Franklin, vermin mitigation, and recommending not to use the tacky LED lights.

Joann Stenquist, 1343 Wiltshire - Addressed the hours. Feels the seven days a week is more excessive than what Berkley has right now. It would show respect to the residents if they reduce their hours of operation. She also suggested an idea of closing fully on Sunday.

Ed Lash, 1511 Wiltshire - Stated he wants clarification to the on-street parking of Wiltshire. He also asked if there has been or will be a light pollution study done, and where will the snow or snow plowing be pushed and will spaces be lost because of that operation or is it taken off-site.

Email from Daniel Veres, 1336 Franklin - read into correspondence Email from Thomas Rolewicz Jr., 1350 Franklin - read into correspondence

The Applicants responded to some of the concerns that were presented in the Citizens Comments, including the ADA parking space, left turn onto Franklin, photometric plan, snow storage/removal, and an EV charging station.

Community Development Director Kapelanski addressed the permitted parking suggestion, security cameras, vermin mitigation, the screen wall with ordinance requirements.

The applicants addressed the parking on Wiltshire, additional parking agreements, and business hours.

The applicant stated that most of the employees are Berkley residents, hopefully mitigating the parking issue of encouraging them to seek alternatives. There also was agreement of raising the six (6) ft. screen wall to seven (7) ft

Commission Bartus asked the applicants for clarification on the traffic signal for pedestrians on the corner of the building.

The Planning Commission discussed the no left turn sign. They concluded that with the no left turn sign it would push traffic to other side streets making that heavy trafficked, and residents/customers would stay on Woodward, and the signage was not needed.

The Planning Commission discussed the seven (7ft) screen wall suggestion. There was a concern about creating an inconsistent look along the corridor with other six (6) ft walls in the area. It was noted that other projects have increased wall heights and the taller height would create a sound barrier on the property line with no green buffer.

The Planning Commission agreed that landscaping meets the intent of the master plan, and would like to see the existing grades show on the plan for HRC review.

Motion by Commissioner Bartus to approve <u>PSP-15-22: 28557 Woodward – Seven Point Provisioning Center</u> subject to findings and conditions:

- Stated in the staff report
- Landscape review meets master plan
- The screen wall is seven (7) ft.
- The applicant shows existing grades

Motion supported by Commissioner Dahlin.

AYES: Bartus, Kempner, Passalacqua, Dahlin

NAYS: 0

ABSENT: Hamameh, Patterson

MOTION CARRIED

* * * * * * * * *

LIAISON REPORT

NONE

* * * * * * * * *

COMMISSIONER COMMENTS

Co-Chair Kempner thanked the residents for attending the meeting and expressing their thoughts and concerns.

* * * * * * * * *

STAFF COMMENTS

Community Development Director Kapelanski reminded the board that there is a meeting at the end of the month including ordinance discussion items. There is a potential of a second special meeting in October on the 11th.

ADJOURNMENT

Motion to adjourn by Commissioner Dahlin supported by Commissioner Bartus.

Voice vote for adjournment

AYES: 4 NAYS: 0

ABSENT: Hamameh, Patterson

With no further business, the meeting was adjourned at 8:08 p.m.



MEMORANDUM

To: Planning Commission

From: Kristen Kapelanski, Community Development Director

Subject: <u>PSP-15-22: 28557 Woodward – Seven Point Provisioning Center</u>

Site Plan Approval

Date: September 9, 2022

The applicant, Seven Point Dispensing of Michigan, LLC on behalf of Greenside Trust, is requesting site plan approval for conversion of an existing building to a retail marihuana dispensary and office use at 28557 Woodward Avenue on the west side of Woodward Avenue between Wiltshire Road and Franklin Road.

Attached are the following reviews for the site plan submitted:

Planning Review from Carlisle Wortman Associates (CWA) dated August 18, 2022

CWA noted no outstanding items to be corrected on the plans in their review. The Planning Commission should review the proposed landscaping and confirm it is consistent with Section 130-37, which requires the Planning Commission to confirm the proposed landscaping is consistent with the Master Plan.

Review from City of Berkley Department of Public Works (DPW) dated August 24, 2022

DPW noted the following comments:

- 1. The City's engineering consultant, Hubbell, Roth & Clark (HRC) will review the geotechnical report, storm water detention calculations and grading.
- 2. A traffic control plan is required prior to final approval.
- 3. Prior to construction, the applicant will need to provide any approvals or comments received from the Michigan Department of Transportation regarding access to Woodward Avenue.

Engineering Review from Hubbell, Roth & Clark (HRC) dated August 24, 2022

HRC recommended approval of the proposed Site Plan subject to the following:

 The stormwater collected from the roof should be directed into the proposed underground system where it can be detained

Review from City of Berkley Fire Inspector

Fire Inspector Jon Roberts stamped the plan set approved on July 29, 2022.

Summary and Recommendation

Staff recommends the Planning Commission approve the plan with the following findings and conditions:

- 1. Planning Commission finding that the proposed landscaping is consistent with Section 130-37 of the Zoning Ordinance; and
- 2. Compliance with the items noted in the DPW August 24, 2022 and HRC August 24, 2022 review letters.

28557-28531 WOODWARD AVENUE BERKLEY, MICHIGAN

ARCHITECTURAL SHEET INDEX:

ARCHITECTURAL SITE PLAN AS00

BOUNDARY/TOPOGRAPHIC SURVEY

PROPOSED FLOOR PLAN A101

WOODWARD AVENUE (EAST) ELEVATION A200

WILTSHIRE ROAD (NORTH) ELEVATION A201

> PUBLIC ALLEY (WEST) ELEVATION A202

> > PHOTOMETRIC PLAN

EXTERIOR COLOR RENDERING

EXISTING CONDITIONS/DEMOLITION PLAN C101

> SITE LAYOUT PLAN C102

SIGNAGE/WAYFINDING PLAN

GRADING PLAN C104

STORM WATER MANAGEMENT PLAN C105

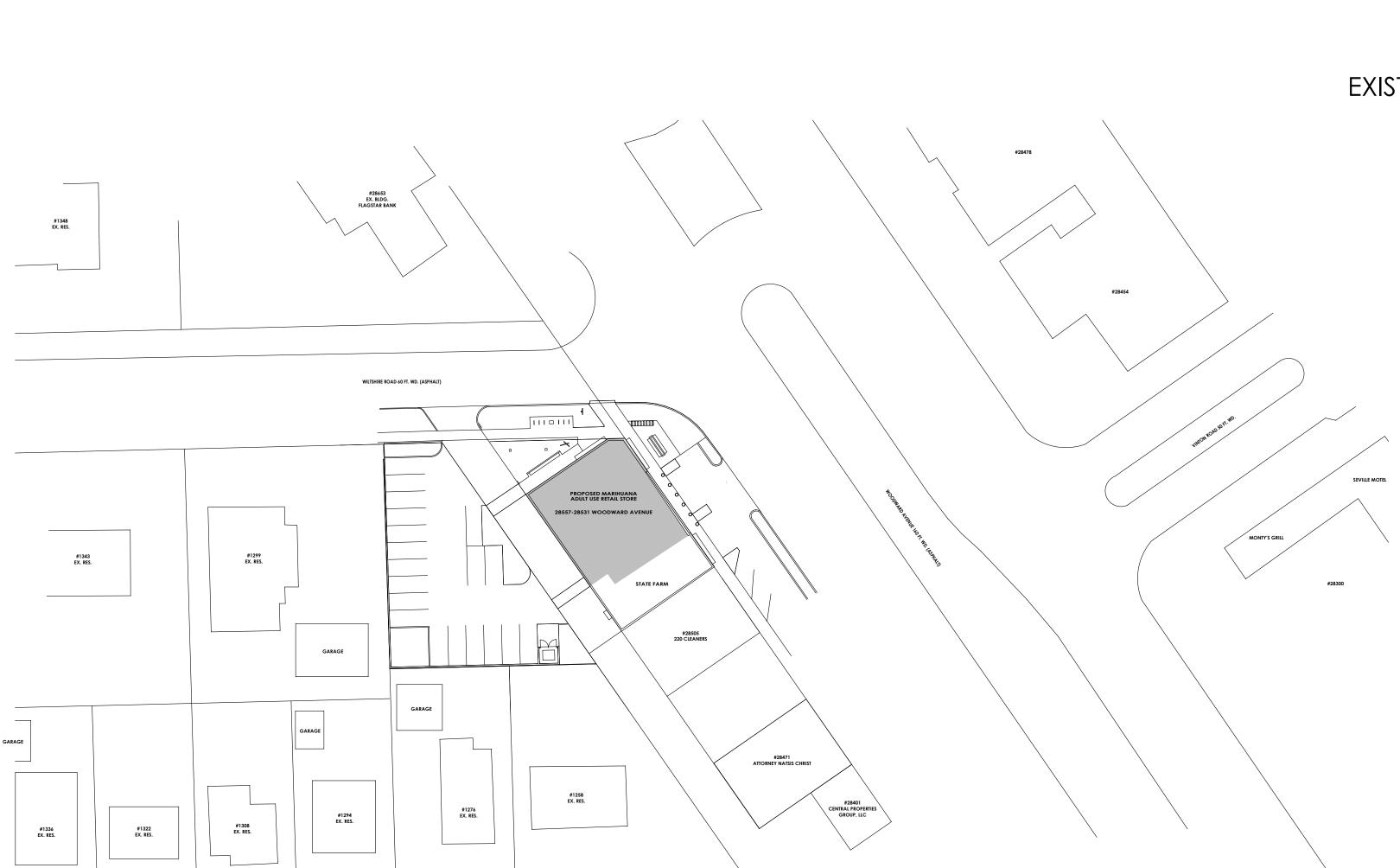
> SITE DETAILS C501

SITE STORM WATER DETAILS C502

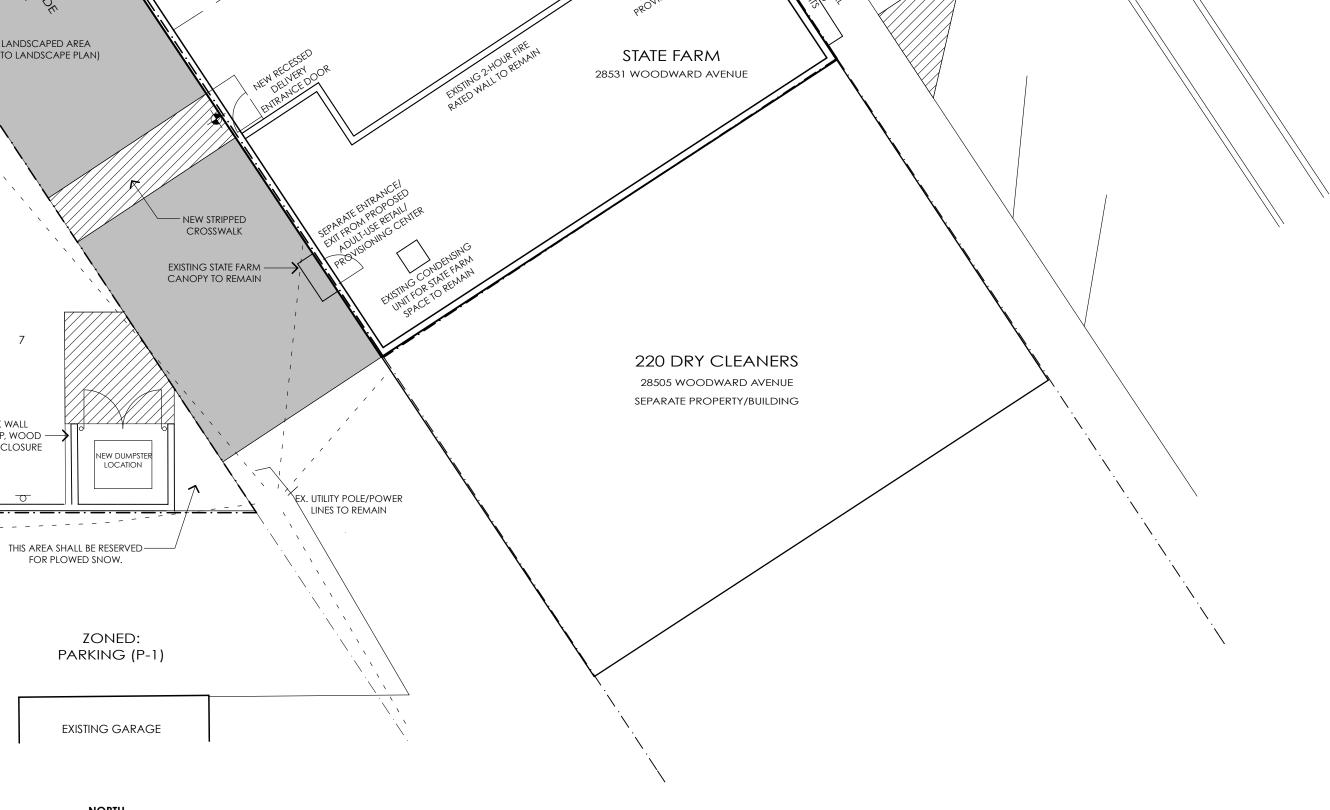
MAINTENANCE OF TRAFFIC C503

> LANDSCAPE PLAN L101

LANDSCAPE DETAILS L501



AREA LOCATION PLAN

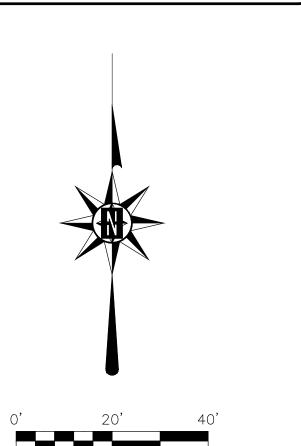


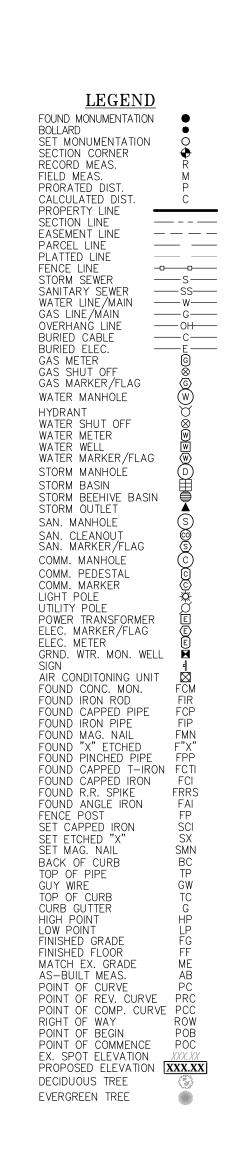
SEVEN POINT (RETAIL): 3,405 gross SF (70%) = 2,384 SF/ 225 = 11 PARKING SPACES REQ'D

STATE FARM (RETAIL):

SITE PARKING INFORMATION:







LEGAL DESCRIPTIONS

PARCEL ID# 25-17-257-025

PART OF LOTS 356-358 INCLUSIVE AND PART OF THE ADJACENT VACATED WILTSHIRE ROAD (60 FEET WIDE), OF "VINSETTA PARK", A SUBDIVISION BEING PART OF SECTIONS 16 AND 17, TOWN 1 NORTH, RANGE 11 EAST, ROYAL OAK TOWNSHIP (NOW THE CITY OF BERKLEY), OAKLAND COUNTY, MICHIGAN, AS RECORDED IN LIBER 12 OF PLATS ON PAGE 30 OF OAKLAND COUNTY RECORDS BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT THE SOUTHWESTERLY CORNER OF SAID LOT 358; THENCE NORTH 33 DEGREES 37 MINUTES 16 SECONDS WEST 115.96 FEET; THENCE NORTH 89 DEGREES 51 MINUTES 45 SECONDS EAST 67.83 FEET; THENCE SOUTH 33 DEGREES 37 MINUTES 16 SECONDS EAST 78.63 FEET; THENCE SOUTH 56 DEGREES 28 MINUTES 30 SECONDS WEST 56.56 FEET TO THE POINT OF BEGINNING. CONTAINING 0.13 ACRES OF LAND MORE OR LESS. ALSO SUBJECT TO ANY OTHER EASEMENTS OR RIGHT OF WAYS OF RECORD IF ANY.

PARCEL ID# 25-17-257-008

LOT 427, OF "VINSETTA PARK", A SUBDIVISION BEING PART OF SECTIONS 16 AND 17, TOWN 1 NORTH, RANGE 11 EAST, ROYAL OAK TOWNSHIP (NOW THE CITY OF BERKLEY), OAKLAND COUNTY, MICHIGAN, AS RECORDED IN LIBER 12 OF PLATS ON PAGE 30 OF OAKLAND COUNTY RECORDS. CONTAINING 0.17 ACRES OF LAND MORE OR LESS. ALSO SUBJECT TO ANY OTHER EASEMENTS OR RIGHT OF WAYS OF RECORD IF ANY.

PARCEL ID# 25-17-257-007

LOT 205, OF "STEPHENSON-BARBER'S OAKLAND MANORS SUB'N", OF PART OF SECTION 17, TOWN 1 NORTH, RANGE 11 EAST, ROYAL OAK TOWNSHIP (NOW THE CITY OF BERKLEY), OAKLAND COUNTY, MICHIGAN, AS RECORDED IN LIBER 12 OF PLATS ON PAGE 22 OF OAKLAND COUNTY RECORDS. CONTAINING 0.29 ACRES OF LAND MORE OR LESS. SUBJECT TO ANY AND ALL EASEMENTS OR RIGHT OF WAYS OF RECORD IF ANY.

PARCEL ID# 25-17-257-024

LOT 425, OF "VINSETTA PARK", A SUBDIVISION BEING PART OF SECTIONS 16 AND 17, TOWN 1 NORTH, RANGE 11 EAST, ROYAL OAK TOWNSHIP (NOW THE CITY OF BERKLEY), OAKLAND COUNTY, MICHIGAN, AS RECORDED IN LIBER 12 OF PLATS ON PAGE 30 OF OAKLAND COUNTY RECORDS. CONTAINING 0.21 ACRES OF LAND MORE OR LESS. ALSO SUBJECT TO ANY OTHER EASEMENTS OR RIGHT OF WAYS OF RECORD IF ANY.

PARCEL ID# 25-17-257-023

LOT 426, OF "VINSETTA PARK", A SUBDIVISION BEING PART OF SECTIONS 16 AND 17, TOWN 1 NORTH, RANGE 11 EAST, ROYAL OAK TOWNSHIP (NOW THE CITY OF BERKLEY), OAKLAND COUNTY, MICHIGAN, AS RECORDED IN LIBER 12 OF PLATS ON PAGE 30 OF OAKLAND COUNTY RECORDS. CONTAINING 0.16 ACRES OF LAND MORE OR LESS. ALSO SUBJECT TO ANY OTHER EASEMENTS OR RIGHT OF WAYS OF RECORD IF ANY.

ZONING REQUIREMENTS

R-1B SINGLE FAMILY RESIDENTIAL PARCEL ID# 25-17-257-007 LOT - MIN. AREA: 8,800 FT.² - MIN. WIDTH: 80 FT. COVERAGE - MAX. BLD.: 35% SETBACKS - FRONT YARD: 25 F REAR YARD: 20 FT. - SIDE YARD: 5 FT. - SIDE TOTAL: 15 FT HEIGHT - MAX. BLD.: 30 FT. LOT - AREA: 12,822 FT.² WIDTH: 100 FT. COVERAGE - BLD.: 3,146 FT.² 24.5%

PARCEL ID# 25-17-257-008 LOT - MIN. AREA: N/A - MIN. WIDTH: N/A COVERAGE - MAX. BLD.: N/A HEIGHT - MAX. BLD.: 15 FT. EXISTING CONDITIONS LOT - AREA: 7,518 FT.² WIDTH: ≈30 FT.

COVERAGE - BLD.: VACANT - PARKING LOT

WOODWARD DISTRICT

PARCEL ID# 25-17-257-025 LOT - MIN. AREA: N/A – MIN. WIDTH: N/A COVERAGE - MAX. BLD.: XX% SETBACKS - FRONT YARD: 10 FT. - REAR YARD: 10 FT - SIDE YARD: XX FT. - SIDE TOTAL: XX FT. HEIGHT - MAX. BLD.: 50 FT.

WIDTH: ≈79 FT. COVERAGE - BLD.: 4,705 FT.² 85.5%

R-2 TWO FAMILY RESIDENTIAL PARCEL ID# 25-17-257-024 LOT - MIN. AREA: 4,000 FT.² MIN. WIDTH: 40 FT COVERAGE - MAX. BLD.: 35% SETBACKS - FRONT YARD: 25 FT - REAR YARD: 35 FT. - SIDE YARD: 5 FT. - SIDE TOTAL: 15 FT. HEIGHT - MAX. BLD.: 30 FT.

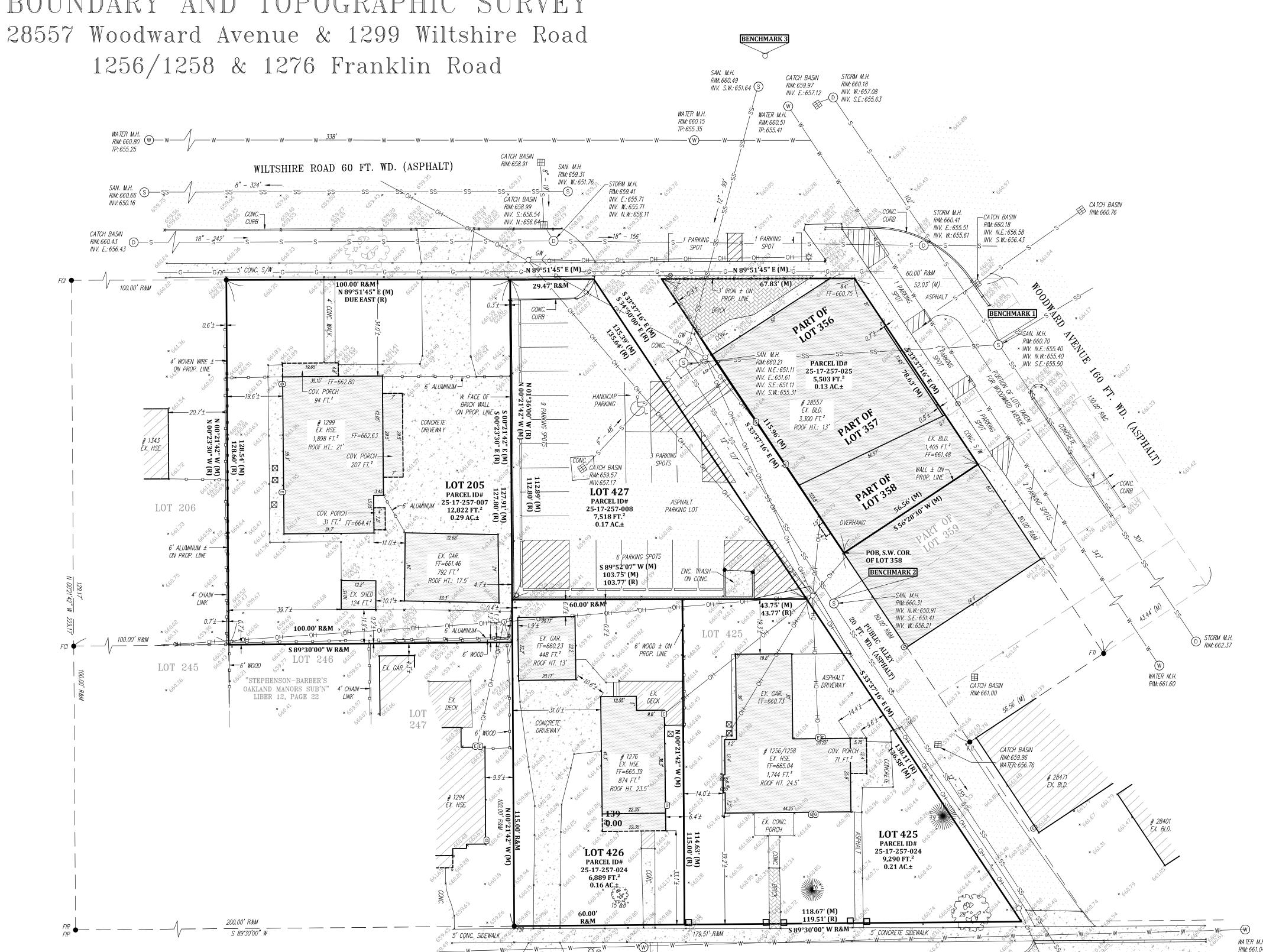
R-2 TWO FAMILY RESIDENTIAL

COVERAGE - BLD.: 1,815 FT.² 19.5%

WIDTH: ≈100 FT.

PARCEL ID# 25-17-257-023 LOT - MIN. AREA: 4,000 FT.² MIN. WIDTH: 40 FT COVERAGE - MAX. BLD.: 35% SETBACKS - FRONT YARD: 25 FT. REAR YARD: 35 FT. SIDE YARD: 5 FT. SIDE TOTAL: 15 FT. HEIGHT - MAX. BLD.: 30 FT. EXISTING CONDITIONS LOT - AREA: 6,889 FT.² WIDTH: 60 FT. COVERAGE - BLD.: FT.² %

BOUNDARY AND TOPOGRAPHIC SURVEY



SAN. M.H.

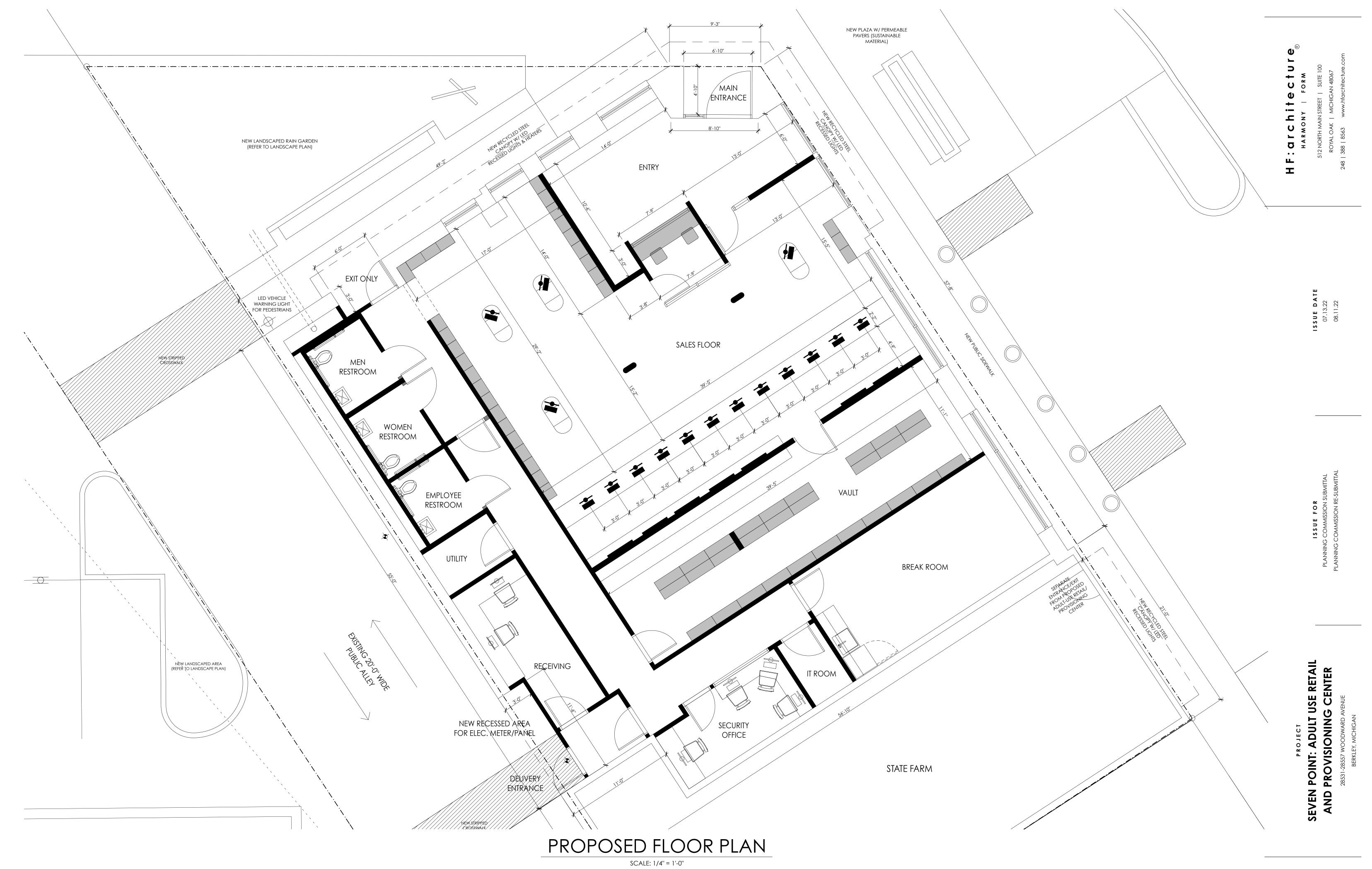
FRANKLIN ROAD 50 FT. WD. (CONCRETE)

CATCH BASIN

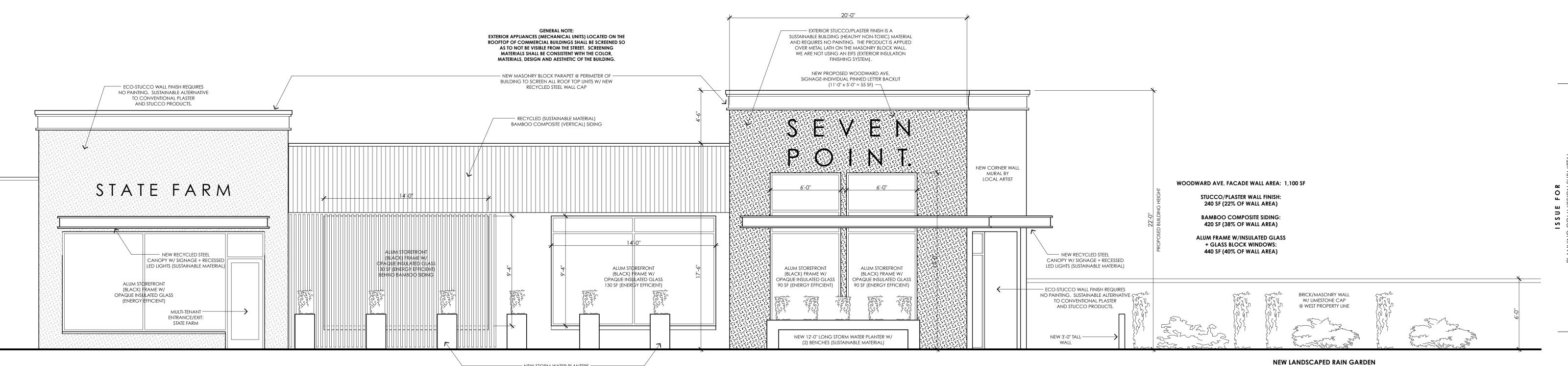
₹ RIM: 660.35

-\INV. N.W.: 650.50

INV. W.: 650.25



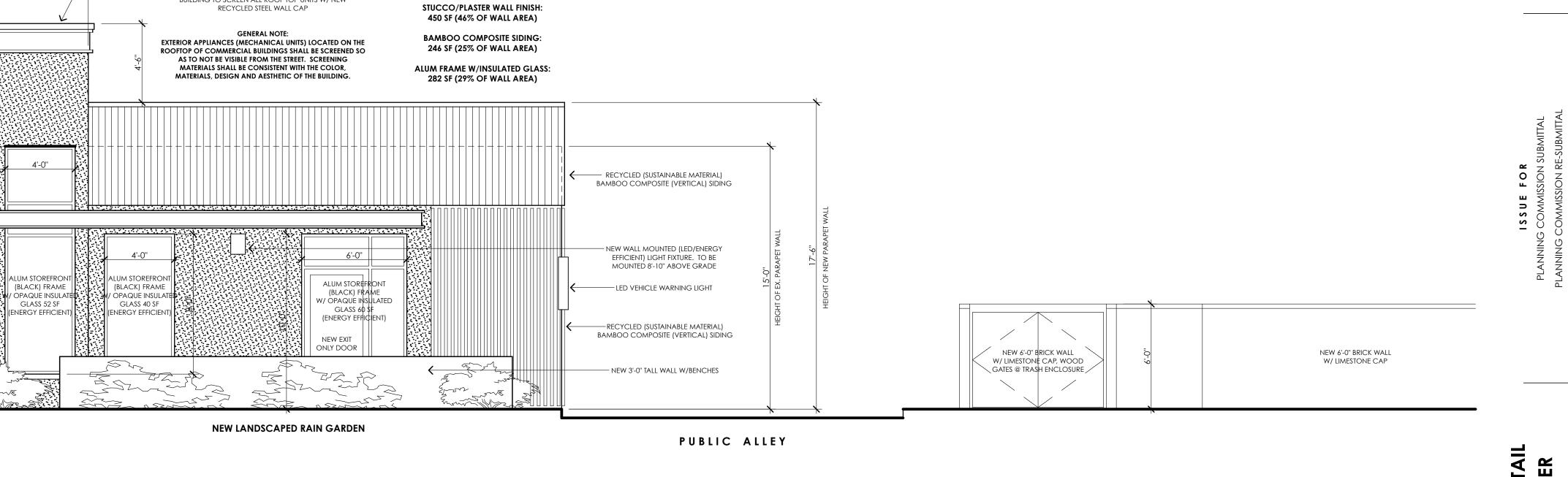
SEVEN POINT: ADULT USE RETAIL
AND PROVISIONING CENTER
28531-28557 WOODWARD AVENUE



WOODWARD AVENUE (EAST) ELEVATION

(SUSTAINABLE MATERIAL)

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



WILTSHIRE ROAD (NORTH) ELEVATION

— NEW MASONRY BLOCK PARAPET @ PERIMETER OF BUILDING TO SCREEN ALL ROOF TOP UNITS W/ NEW RECYCLED STEEL WALL CAP

EXTERIOR STUCCO/PLASTER FINISH IS A
SUSTAINABLE BUILDING (HEALTHY NON-TOXIC) MATERIAL
AND REQUIRES NO PAINTING. THE PRODUCT IS APPLIED
OVER METAL LATH ON THE MASONRY BLOCK WALL.
WE ARE NOT USING AN EIFS (EXTERIOR INSULATION
FINISHING SYSTEM).

NEW PROPOSED WOODWARD AVE.

SIGNAGE-INDIVIDUAL PINNED LETTER BACKLIT

(11'-0" x 5'-0" = 55 SF)

SEVEŇ

(BLACK) FRAME

M/ OPAQUÉ INSULATE GLASS 52 SF (ENERGY EFFICIENT)

ALUM STOREFRONT (BLACK) FRAME W/ OPAQUE INSULATED GLASS 78 SF (ENERGY EFFICIENT)

NEW CORNER WALL LOCAL ARTIST

MAIN ENTRANCE

NEW RECYCLED STEEL

CANOPY W/ SIGNAGE + RECESSED

LED LIGHTS (SUSTAINABLE MATERIAL)

ECO-STUCCO WALL FINISH REQUIRES — NO PAINTING. SUSTAINABLE ALTERNATIVE TO CONVENTIONAL PLASTER AND STUCCO PRODUCTS.

NEW 12'-0" LONG STORM WATER
—— PLANTER W/ (2) BENCHES
(SUSTAINABLE MATERIAL)

WILTSHIRE FACADE WALL AREA: 978 SF

VEN POINT: ADULT USE RETAIL

ND PROVISIONING CENTER

28531-28557 WOODWARD AVENUE

GENERAL NOTE:
EXTERIOR APPLIANCES (MECHANICAL UNITS) LOCATED ON THE ROOFTOP OF COMMERCIAL BUILDINGS SHALL BE SCREENED SO — NEW MASONRY BLOCK PARAPET @ PERIMETER OF BUILDING TO SCREEN ALL ROOF TOP UNITS W/ NEW RECYCLED STEEL WALL CAP AS TO NOT BE VISIBLE FROM THE STREET. SCREENING MATERIALS SHALL BE CONSISTENT WITH THE COLOR, MATERIALS, DESIGN AND AESTHETIC OF THE BUILDING. EXTERIOR STUCCO/PLASTER FINISH IS A ----SUSTAINABLE BUILDING (HEALTHY NON-TOXIC) MATERIAL AND REQUIRES NO PAINTING. THE PRODUCT IS APPLIED OVER METAL LATH ON THE MASONRY BLOCK WALL. WE ARE NOT USING AN EIFS (EXTERIOR INSULATION FINISHING SYSTEM). PARKING/ALLEY FACADE WALL AREA: 1,110 SF STUCCO/PLASTER WALL FINISH: 845 SF (76% OF WALL AREA) BAMBOO COMPOSITE SIDING: 265 SF (24% OF WALL AREA) -P-O-I-N-T.-RECYCLED ISUSIAMABLE MATERIAL) BAMBOO COMBOSHE IMERIKALI SUNG NEW RECYCLED STEEL

CANOPY W/ SIGNAGE + RECESSED

LED LIGHTS (SUSTAINABLE MATERIAL) EXISTING STATE FARM CANOPY NEW RECESSED DELWERY DARBANCEVERIT SEVEN BOWLT — MULTI-TENANT ENTRANCE/EXIT: STATE FARM

NEW LANDSCAPED RAIN GARDEN

PUBLIC ALLEY (WEST) ELEVATION

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



Specifications EPA (ft²@0°):

0.57 ft² (0.05 m²) 21.8" (55.4 cm)

13.3" (33.8 cm) Height: 3.0" (7.6 cm) Main Body 7.2" (18.4 cm) Arm 31.0 lbs (14.1 kg)

Introduction

The new RSX LED Area family delivers maximum value by providing significant energy savings, long life and outstanding photometric performance at an affordable price. The RSX1 delivers 7,000 to 17,000 lumens allowing it to replace 70W to 400W HID luminaires.

The RSX features an integral universal mounting mechanism that allows the luminaire to be mounted on most existing drill hole patterns. This "no-drill" solution provides significant labor savings. An easy-access door on the bottom of mounting arm allows for wiring without opening the electrical compartment. A mast arm adaptor, adjustable integral slipfitter and other mounting configurations are available.

atistics							
escription	Symbol	Avg	Max	Min	Max/Min	Avg/Min	Avg/Ma
RKING LOT	Ж	1.6 fc	5.3 fc	0.2 fc	26.5:1	8.0:1	0.3:1
OPERTY LINE	+	0.0 fc	0.0 fc	0.0 fc	N/A	N/A	N/A
BLIC ALLEY	Ж	0.9 fc	3.9 fc	0.0 fc	N/A	N/A	0.2:1
NED: SINGLE-FAMILY RESIDENTIAL	+	0.0 fc	0.2 fc	0.0 fc	N/A	N/A	0.0:1

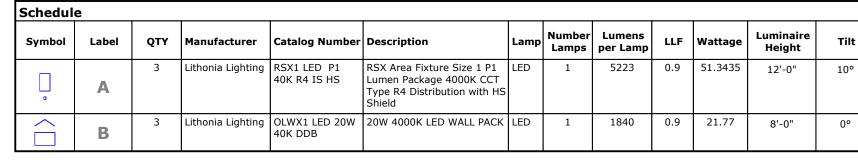
Ordering Note

FOR INQUIRIES CONTACT GASSER BUSH AT QUOTES@GASSERBUSH.COM OR 734-266-

Drawing Note

THIS DRAWING WAS GENERATED FROM AN ELECTRONIC IMAGE FOR ESTIMATION PURPOSE ONLY. LAYOUT TO BE VERIFIED IN FIELD BY OTHERS.

MOUNTING HEIGHT IS MEASURED FROM GRADE TO FACE OF FIXTURE. POLE HEIGHT SHOULD BE CALCULATED AS THE MOUNTING HEIGHT LESS BASE HEIGHT.



General Note

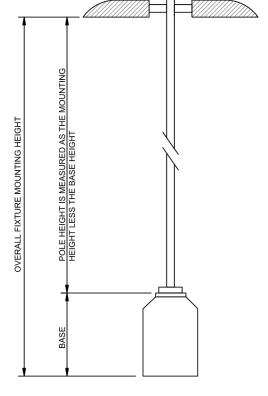
1. SEE SCHEDULE FOR LUMINAIRE MOUNTING HEIGHT.

2. CALCULATIONS ARE SHOWN IN FOOTCANDLES AT: 0' - 0"

THE ENGINEER AND/OR ARCHITECT MUST DETERMINE APPLICABILITY OF THE LAYOUT TO EXISTING / FUTURE FIELD CONDITIONS. THIS LIGHTING LAYOUT 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. MOUNTING HEIGHTS INDICATED ARE FROM GRADE AND/OR FLOOR UP.

THESE LIGHTING CALCULATIONS ARE NOT A SUBSTITUTE FOR INDEPENDENT ENGINEERING ANALYSIS OF LIGHTING SYSTEM SUITABILITY AND SAFETY. THE ENGINEER AND/OR ARCHITECT IS RESPONSIBLE TO REVIEW FOR MICHIGAN ENERGY CODE AND LIGHTING QUALITY

UNLESS EXEMPT, PROJECT MUST COMPLY WITH LIGHTING CONTROLS REQUIRMENTS DEFINED IN ASHRAE 90.1 2013. FOR SPECIFIC INFORMATION CONTACT GBA CONTROLS GROUP AT ASG@GASSERBUSH.COM OR 734-266-6705.



5

Ordering Information EXAMPLE: RSX1 LED P4 40K R3 MVOLT SPA DD1 RSX1 LED Series Performance Color Distribution Voltage Houstine	+0.0	0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0 WILTS	O.0 COADO.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	⁺ 0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0
Series Performance Package Temperature Distribution Voltage Mounting		0.0	+0.0	+0.0	+0.1	⁺ 0.1	⁺ 0.1	+0.1	+0.1 +0.0	+0.0	+0.0	+0.0	⁺ _/ 0.0	⁺ 0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0
R4S Type 4 Short 120 1 277 4 IS Adjustable slightter (fits 2-3/8" OD tenon) 5 R5 Type 5 Wide 1 208 2 347 4 WBA Wall bracket 1 R5S Type 5 Short 1 240 3 480 4 WBASC Wall bracket with surface conduit box AFR Automotive Front Row AFR890 Automotive Front Row AFR99 Automotive Front Row AFR99 Automotive Front Row AFR99 Automotive Front Row										REMOVE EX. A	ASPHALT PAVING W/ NEW GRASS AREA, IRRIGATION	EX. STO		EXISTING SIDEWALK	\									
AGUSTADE SON FOW AND ADJUSTADE SIT ATM With wall bracket 5 AFRL90 Automotive Front Row Left Rotated AAWSC Adjustable bit arm wall bracket and surface conduit box 5	+0.0	0.0	+0.0	EX DIPOTE	+0.2	0.2	+0.2	+0.1	+0.1 +0.1	+0.1	+ O.1	0.1	EX UTILD POLE	+0.0	+0.0	+0.0	+0.0	0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0
Options Finish Shipped Installed Shipped Installed DDBXD Dark Bronze HS House-side shield * *Standalone and Networked Sensors/Controls (factory default settings, see table page 9) DBLXD Black	+0.0	0.0	0.0	0.1	0.6	*0.5	*0.4	*0.2	0.1 DRAIN 0.1	+ 0.1		NEW PUBLIC ART/ SCULPTURE + 0.7	IEN CAPTON	NEW WALL MURAL	+0.0 ₁₀	0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0
PEX Photocontrol, button style ^{1/4} NLTAIR2 nLight AIR generation 2 ^{1,11,14} DNAXD Natural Aluminum PEX Photocontrol external threaded, adjustable ^{8,1} PIRHN Networked, Bi-Level motion/ambient sensor (for use with NLTAIR2) ^{1,2,14,14} DWHXD White PER7 Severs-wire twist-lock receptacle only (no controls) ^{1,14,11,12} DDBTXD Textured Dark Bronze CE34 Conduit entry 3/4" NPT (Qty 2) *Note: PIRHN with nLight Air can be used as a standalone or networked solution. Sensor coverage pattern is affected when luminaire is tilted. DNAXD Textured Natural Aluminum		+0.0	+0.0	0.0	W/IRRIGATION	*	*__	*	UNDERGROUND STORAG COLLECT ROOF STORM	TURE/LANDSCAPE GARDEN. E TANKS WILL BE INSTALLED TO VATER & PROVIDE WATER FOR RRIGATION SYSTEM.	COVER	+ -			The state of the s	+_	+	+	+	+	+	4	+	+
DF Double fuse (208, 240, 480) * SPD20KV 20KV Surge pack (10KV standard)		+0.0	⁺ 0.1	0.2	1, ₄ 4		0.6	EXISTING PUBLIC ALLEY (SHADED AREA) SHALL BE MAINTAINED BY THE PROPOSED ADULT USE RETAI TENANT, SAME AS THE LANDLORI HAS MAINTAINED.	0.1	0.2	B20 8	6.9		É	WEN IN THE DOOR	0.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0
One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.acurtybrands.com LITHONIA One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.acurtybrands.com Rev. 0: Page	7/20			*0.5	*2.6	*1.4	*0.8	*0.4		0.2	MEAN ESPECIES	<u>/</u> A	PROPOSED MARI ADULT USE RETAIL 28557 WOODWARD /	STORE		0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0
COMMERCIAL OUTDOOR		⁺ 0.0	⁺ 0.2	0.0 *2.1	EW (12' tall) PARKING LOT DENERGY EFFICIENT) LIGHT TUES SPOLE (172 0 13)	*1.9	*1.0	*0.4	*0.3 *0.3		VEHICLE WARNING LIGHT FOR PEDESTRIANS		EXISTING BUILDING AREA: (W DISPENSARY + EXISTING				0,0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0
		+0.0	+0.2	0.0		EA DOI	WE WILL STATE		EX. UTILITY POLE TO BE REMOVED. BURY POWER LINE NEW STRIPPED WALK!		\\													
OLWX1 LED LED Wall Luminaire		+0.0	⁺ 0.1	*1.3	*4.0	— *1.8	T.1	0.5 BARRIER-FREE CAR SPACE	*0.3 *0.5	*3.9 B @ 8'								0.0	⁺ 0.0	⁺ 0.0	(†0.0	0.0	0.0	⁺ 0.0
CULUS ES 5 X WEI LOCATION - No. 100 No			NORETE	0.0 *0.4	*2.6	* _{1.7}	*1.1		*0.4	*1.4	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MAINTENANCE WALF		NEW SHELL MIN				0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0
Introduction The OLWX1 is versatile and energy efficient. It is designed to replace up to 250W metal halide whi		+0.0	+0.0 EXISTING CO	0.0 *0.3	*2.3	 *1.8	*1.2	*0.7	*0.5	*0.4	*0.5				ا ان کامیر	THE SECTION		EURTHE	+0.0	0.0	+0.0	+0.0	+0.0	+0.0
Specifications Width: 7-1/2" Height: 8" 8" 8" 100		+0.0	+0.1	0.0		_			3				THE REAL STREET COURSE	^		28	STATE FARM 531 WOODWARD AVENUE				1			
Height: 8" as a flood light – the OLWX1 has all applications covered. Weight: 5 lbs (2,27%) Flush or backbox mount		+0.0	⁺ 0.1	*0.5	*2.9	1.8		# 0.8 KING LOT AREA: 7,518 SF	*0.6 *0.5	0.5	NEW WALL MOUNTED (LED/ENE EFFICIENT) LIGHT FIXTURE (TYP 3). TO BE MOUNTED 8-0" ABOVE GRADE	*3.7 P. OF	Market Bernery			a St. A. E. F. Rosel			ENELING	0.0	0.0	+0.0	+00	0.0
Ordering Information EXAMPLE: OLWX1 LED 20W 50	<	0.Qoned: single-family residential		*1.9 A	@ 12 8	*2.1	*1. 4 ⁵⁰³ gr	BUILDING (RETAIL) AREA: 100 SF (70%%%]= 3,102 SF / 225 18 PARKING SPACES REQ'D	*1.0 *1.1	*1.0	*0.9	*1.9	*2.2	MAINTENANCE WAI		A STATE OF THE STA				0.0	+0.0	/ ⁺ 0.0	+0.0	+0.0
OLWX1 LED Performance Package Color Temperature Voltage Controls Finish OLWX1 LED 13W 13 watts 40K 4000 K 20W X1	ı	+0.0	+0.2	0.0	*	*	19 PARKING S = 20 PAR	PACES + 1 BARRIER-FREE SPACES KING SPACES PROVIDED @ WEST PARKING LOT	* *	EX DE	*	EX. CAN TO REI	IOPY MAIN **	EVELUNG							+0.0	+00	+0.0	+0.0
40W 40 watts 1		+0.0	+0.1	1.5	<u>~~~~4.1</u>	1.9	1.4	1.4	1.7 2.1	DELIVERY PARKING ONLY	1.3	0.9	0.5				220 DRY CLE	ANERS			0.0	0.0	0.0	0.0
Accessories Deint Contribution (SOUNCE) OLWX1YK Yoke for OLWX1 OLWX1TK Knuckle for OLWX1				SHALL BE RESER	+ AREA W/IRRIGATION 2 PLANTS. THIS AREA EVED FOR PLOWED SNOW.	*1.4	*1.3	*1.8	*3.0 *5.3	*3.8	0.0	+0.9	*0.0	+0.1			28505 WOODW/ SEPARATE PROPE	ARD AVENUE				0.0	+0.0	+0.0
FEATURES & SPECIFICATIONS		⁺ 0.0	0.0	0.0	⁺ 1.0	*0.8	*0.6	*0.4	A @ 12' *0.7 *2*1	EX. ENC W	C. C. TRASH CLOSURE WI NEW OD GATES +	[↑] 0.0	0.0 _{EX.1}	+ 0.0 Whis foregamen	+0.0					+0.0	+0.0	0.0	+0.0	+0.0
INTENDED USE The versatility of the CWX1 LED combines a sleek, low-profile wall pack design with energy efficient, low maintenance LEDs for replacing up to 250M metal halide fixtures. Mounting accessories are available to convert the CWX1 LED into an energy efficient flood light. Substituting and conduit entry - with the included wall mount bracket, or for mounting and conduit entry - with the included wall mount bracket, or for entry hubs. Flood light mounting accessories (sold separately) include knudde, integrate all picture and yoke mounting options. Each flood mount accessory cornes with a top vis vanidal guard. Luminaire may be wall or ground mounted in downward or upward orier	duit and	+0.0	+0.0	0.0	+0.0	0.0 EXI	STING CONCRETE 0.0	0.0	0.0 0.0	0.0 0.0 NEW LANDSCAF FOR PERENNIA SHALL BE RE	PING AFE VORIGATION ALS PLAMS. WHIS AREA ESERVED FOR PLOWED SNOW.	0.0	+0.0	LINES TO REMAIN										
CONSTRUCTION Cast-aluminum housing with textured dark bronze polyester powder paint for durability. Integral heat sinks optimize thermal management through conductive and convective cooling. LEDs are protected behind a glass lens. Housing is sealed against moisture and environmental contaminants (IP65 rated). See Lighting Facts label and photometry reports for details. LISTINGS UL Listed to U.S. and Canadian safety standards for wet locations. Rated for -40° C min ambient. Tested in accordance with IESNA LM-79 and LM-80 standards. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified products. Not all versions of this product may be DLC qualified. WARRANTY	ied.	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0 +0.0	0.1	⁺ 0.1	+0.0	+0.0	+0.0	+0.0	0.0	EURINE			⁺ 0.0	0.0	0.0	¯0.0	\	⁺ 0.0
ELECTRICAL Light engine consists of 1 high-efficiency Chip On Board (COB) LED with integrated circuit board mounted directly to the housing to maximize heat dissipation and promote long life (L73/100,000 hours at 25°C). Electronic drivers have a power factor >90% and THD <20% and a minimum 2.5kV surge rating. Flood light mounting accessories include an additional 6kV surge protection device. LEDs are available in 4000K and 5000K CCTs. Separt limited warranty. Complete warranty terms located at: www.acultybrands.com/support/customer support/forms.and-conditions Note: Actual performance may differ as a result of end-user environment and applicat All values are design or typical values, measured under laboratory conditions at 25°C. Specifications subject to change without notice.	**************************************					SING	ZONED: LE-FAMILY SIDENTIAL				ZONED: SINGLE-FAMIL' RESIDENTIA	Y			+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0		
		+0.0	+0.0	0.0	+0.0	+0.0	+0.0	+0.0 +0.0	0.0	⁺ 0.0	0.0	+0.0	0.0	+0.0										1

Designer TV/KB Date 5/22/2020 rev. 8/18/2022 **Drawing No.** #20-50343-V2

COMMERCIAL OUTDOOR

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com

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Mounting Height Note

COMPLIANCE.

<u>Plan View</u> Scale - 1'' = 10ft Scale Not to Scale 1 of 1





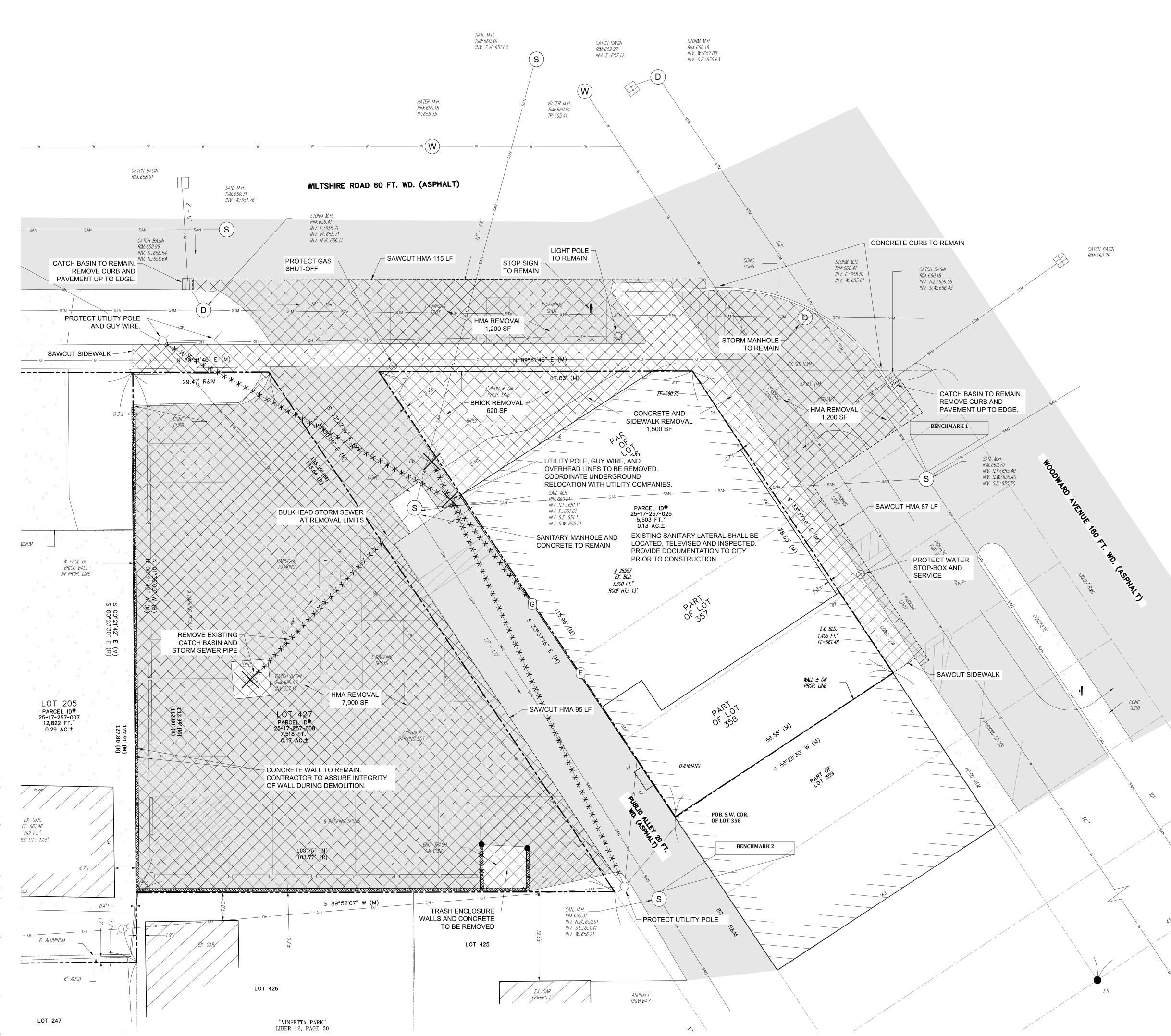






APRIL 2022 F&V PROJECT NO 855100

C101



DEMOLITION NOTES:

THE WORK REFLECTED ON THE DEMOLITION PLAN IS TO PROVIDE GENERAL INFORMATION REGARDING THE EXISTING ITEMS TO BE DEMOLISHED AND/OR REMOVED. THE CONTRACTOR IS RESPONSIBLE TO REVIEW THE ENTIRE PLAN SET AND ASSOCIATED REPORTS AND REFERENCE DOCUMENTS.

THE DESIGN REPRESENTED BY THIS PLAN SET IS BASED ON THE ENGINEER'S UNDERSTANDING OF EXISTING CONDITIONS. THE EXISTING CONDITIONS SHOWN ON THIS PLAN ARE BASED UPON BOUNDARY AND TOPOGRAPHIC SURVEY PREPARED BY NOWRY & HALE LAND SURVEYING ILC DATED 04-01-2022. IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS WITHOUT EXCEPTION, CONTRACTOR SHALL HAVE MADE, AT OWN EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW.

CONTRACTOR IS SPECIFICALLY CAUTIONED THAT LOCATIONS OF EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM INFORMATION AVAILABLE. ENGINEER ASSUMES NO RESPONSIBILITY FOR THE UTILITY MAPPING ACCURACY. PRIOR TO START OF ANY DEMOLITION OR CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES 48 HOURS PRIOR TO ANY EXCAVATION FOR ON-SITE LOCATION OF EXISTING UTILITIES. THE LOCATIONS OF UTILITIES SHALL BE OBTAINED BY THE CONTRACTOR BY CALLING MICHIGAN UTILITY NOTIFICATION CENTER (MISS DIG) AT 811. THE CONTRACTOR SHALL FIELD VERIFY ALL IDENTIFIED UTILITIES FOR LOCATION AND DEPTH PRIOR TO CONSTRUCTION. ANY DISCREPANCY BETWEEN THIS INFORMATION AND THE INFORMATION REPRESENTED ON THIS PLAN SET SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY OTHER UNDERGROUND MATERIALS OR EQUIPMENT ENCOUNTERED DURING EXCAVATION NOT SPECIFICALLY NOTED ON THIS PLAN SET.

ALL DEMOLITION ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL CODES AND LAWS. ALL MATERIAL THAT IS NOT SUITABLE AS BACKFILL AND MATERIALS THAT ARE EXCESS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

CONTRACTOR SHALL BE RESPONSIBLE FOR APPLYING FOR AND OBTAINING ALL NECESSARY DEMOLITION PERMITS AND PAYING FOR ANY ASSOCIATED PERMIT FEES.

CONTRACTOR SHALL PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR THE SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF THE EXISTING FACILITIES. IF REQUIRED, CONTRACTOR SHALL PREPARE AND SUBMIT TO THE GOVERNING AUTHORITY A TRAFFIC AND/OR PEDESTRIAN TRAFFIC PLAN PER STATE STANDARDS TO BE APPROVED BY THE LOCAL GOVERNING AUTHORITY. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING VEHICULAR AND PEDESTRIAN TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGGING PERSONNEL, AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC WHERE NECESSARY. TRAFFIC CONTROL DEVICES SHALL CONFORM TO APPROPRIATE DEPARTMENT OF TRANSPORTATION STANDARDS.

PRIOR TO DEMOLITION OR EARTHWORK OCCURRING, ALL EROSION CONTROL DEVICES SHALL BE INSTALLED.

WHERE CURBING OR PAVEMENT IS INDICATED TO BE REMOVED, IT SHALL BE SAWCUT FULL DEPTH. CONCRETE ITEMS SHALL BE REMOVED TO THE NEAREST JOINT IF THE JOINT IS WITHIN 3 FEET OF THE REMOVAL LINE. CONTRACTOR SHALL LIMIT REMOVALS TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THIS PLAN SET BUT IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC., THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR

CONTRACTOR SHALL PROTECT EXISTING FEATURES WHICH ARE TO REMAIN. DAMAGE TO ANY EXISTING FEATURES TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE.

THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL UTILITIES ARE DISCONNECTED IN ACCORDANCE WITH THE UTILITY AUTHORITY'S REQUIREMENTS PRIOR TO STARTING THE DEMOLITION OF ANY STRUCTURE.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THIS PLAN SET.

CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO REMOVAL AND/OR RELOCATION OF

UTILITIES. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANIES' FORCES AND ANY FEES WHICH ARE TO BE PAID TO UTILITY COMPANIES FOR SERVICES. CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.

ELECTRICAL, TELEPHONE, CABLE, WATER, SANITARY, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED

OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE.

CONTACTOR SHALL DOCUMENT AND WITNESS ACTUAL LOCATIONS OF CAPPED UTILITIES, SUBSURFACE OBSTRUCTIONS, AND OTHER ITEMS WHICH WILL BE HIDDEN AFTER PROPOSED CONSTRUCTION ACTIVITIES.

ALL EXCAVATIONS ASSOCIATED WITH DEMOLISHED STRUCTURES OR REMOVED TANKS SHALL BE BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED TO SUPPORT SITE AND BUILDING IMPROVEMENTS. A GEOTECHNICAL ENGINEER SHOULD BE PRESENT DURING BACKFILLING ACTIVITIES TO OBSERVE AND CERTIFY THAT BACKFILL MATERIAL WAS COMPACTED TO A SUITABLE CONDITION.

EXISTING TREES AND OTHER NATURAL VEGETATION WITHIN THE PROJECT AND/OR ADJACENT TO THE PROJECT ARE OF PRIME CONCERN AND SHALL BE A RESTRICTED AREA. CONTRACTOR SHALL PROTECT TREES TO REMAIN AT ALL TIMES. EQUIPMENT SHALL NOT NEEDLESSLY BE OPERATED UNDER NEARBY TREES AND EXTREME CAUTION SHALL BE EXERCISED WHEN WORKING ADJACENT TO TREES, SHOULD ANY PORTION OF THE TREE BRANCHES REQUIRE REMOVAL TO PERMIT OPERATION OF THE CONTRACTOR'S EQUIPMENT, CONTRACTOR SHALL OBTAIN THE SERVICES OF A PROFESSIONAL TREE TRIMMING SERVICE TO TRIM THE TREES PRIOR TO THE BEGINNING OF OPERATION. SHOULD CONTRACTOR'S OPERATIONS RESULT IN THE BREAKING OF ANY LIMBS, THE BROKEN LIMBS SHALL BE REMOVED IMMEDIATELY AND CUTS SHALL BE PROPERLY PROTECTED TO MINIMIZE ANY LASTING DAMAGE TO THE TREE. NO TREES SHALL BE REMOVED WITHOUT AUTHORIZATION BY THE ENGINEER.

GENERAL NOTES:

THE CONTRACTOR SHALL VERIFY AND FAMILIARIZE THEMSELVES WITH THE EXISTING SITE CONDITIONS AND THE PROPOSED SCOPE OF WORK (INCLUDING DIMENSIONS, LAYOUT, ETC.) PRIOR TO INITIATING THE IMPROVEMENTS IDENTIFIED WITHIN THESE DOCUMENTS. SHOULD ANY DISCREPANCY BE FOUND BETWEEN THE EXISTING SITE CONDITIONS AND THE PROPOSED WORK THE CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO THE START OF CONSTRUCTION.

THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL SITE RELATED PERMITS. CONTRACTOR IS REQUIRED TO COMPLETE THE APPLICATION, AND SUBMIT NECESSARY DRAWINGS, FEES, ETC. TO THE APPROPRIATE JURISDICTION. CONTRACTOR SHALL PAY ALL FEES RELATED TO PERMIT(S) AND SECURE PERMIT(S) IN HIS NAME. COPIES OF ALL REQUIRED PERMITS AND APPROVALS SHALL BE KEPT ON SITE AT ALL TIMES DURING CONSTRUCTION.

THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF EXISTING WATER, SANITARY SEWER, AND STORM SEWER CROSSINGS AND CONNECTION POINTS PRIOR TO CONSTRUCTION. CONTACT ENGINEER WITH ANY DISCREPANCIES

CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL SITE UTILITY CONNECTIONS AND INSPECTIONS WITH THE PROPER

JURISDICTION AND PAY ALL ASSOCIATED FEES.

THE CONTRACTOR SHALL NOT DEVIATE FROM THE PROPOSED IMPROVEMENTS IDENTIFIED WITHIN THIS PLAN SET

UNLESS APPROVAL IS PROVIDED IN WRITING BY ENGINEER.

THE CONTRACTOR IS RESPONSIBLE TO DETERMINE THE MEANS AND METHODS OF CONSTRUCTION.

THE CONTRACTOR SHALL NOT PERFORM ANY WORK OR CAUSE DISTURBANCE ON A PRIVATE PROPERTY NOT CONTROLLED BY THE PERSON OR ENTITY WHO HAS AUTHORIZED THE WORK WITHOUT PRIOR WRITTEN CONSENT FROM THE OWNER OF THE PRIVATE PROPERTY.

THE CONTRACTOR IS RESPONSIBLE TO RESTORE ANY DAMAGED OR UNDERMINED STRUCTURE OR SITE FEATURE THAT IS IDENTIFIED TO REMAIN ON THE PLAN SET. ALL REPAIRS SHALL USE NEW MATERIALS TO RESTORE THE FEATURE TO ITS EXISTING CONDITION AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL IN ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC

THE CONTRACTOR IS REQUIRED TO PERFORM ALL WORK IN THE PUBLIC RIGHT-OF-WAY IN ACCORDANCE WITH THE APPROPRIATE GOVERNING AUTHORITY AND SHALL BE RESPONSIBLE FOR THE PROCUREMENT OF STREET OPENING PERMITS.

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

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

THE CONTRACTOR IS REQUIRED TO PREPARE SUBGRADE SOILS BENEATH ALL PROPOSED IMPROVEMENTS AND BACKFILL ALL EXCAVATIONS IN ACCORDANCE WITH RECOMMENDATIONS BY THE GEOTECHNICAL ENGINEER OF RECORD

THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL OPEN EXCAVATIONS ARE PERFORMED AND PROTECTED IN ACCORDANCE WITH THE LATEST OSHA REGULATIONS.

THE CONTRACTOR SHALL LOCATE ALL SERVICE LEADS AND HAVE THEM INSPECTED BY A LICENSED CONTRACTOR/PLUMBER AND THE VIDEO FOOTAGE SUMITTED TO THE CITY SHOWING THE LEAD IS SUITABLE FOR RE-USE PRIOR TO CONSTRUCTION.

A MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) RIGHT-OF-WAY PERMIT IS REQUIRED FOR WORK WITHIN WOODWARD ROAD RIGHT-OF-WAY AS WELL AS FOR CONSTRUCTION SIGNAGE

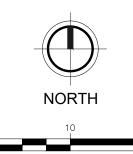
REMOVAL LEGEND

SYMBOL DESCRIPTION

XXXXX CURB OR UTILITY TO BE REMOVED

TREE OR OBJECT TO BE REMOVED

PAVEMENT TO BE REMOVED



ZONING REQUIREMENTS:



C102

DRAWING INFORMATION: 855100-C102-SITE

081022 michaelc

SEVEN POINT BERKI DOWARD AVE, BERKLEY, MI 4

2960 Lucerne Drive SE

P: 616.977.1000

Grand Rapids, MI 49546

C103

ANDENBRIN

2960 Lucerne Drive SE Grand Rapids, MI 49546 P: 616.977.1000 F: 616.977.1005

nmission Sub. 07/13/2022 JLO

GRADING PLAN

OINT BE, BERKLEY

GRADII

SIGN PROJ MNGR: BT
DESIGNED BY: RC
DRAWN BY: RC
CHECK BY

DRAWING INFORMATION: 855100-C104-GRAD 071322 joel.oconnell

FORTON

CONSTRUCTION

APRIL 2022 F&V PROJECT NO. 855100

C104

STORMWATER MANAGEMENT SHALL CONFORM WITH THE LATEST REQUIREMENTS OF CITY OF BERKLEY AND

CHANNEL PROTECTION VOLUME CONTROL (CPVC) IS PROVIDED IN THE BIOSWALE AND IN STONE STORAGE

CHANNEL PROTECTION RATE CONTROL (CPRC) WILL BE DETAINED IN UNDERGROUND DETENTION SYSTEM

DOWNSPOUTS ARE NOT PERMITTED TO DISCHARGE DIRECTLY INOT COMBINED SEWER SYSTEM AND MUST

OPERATION AND MAINTENANCE PLAN FOR ALL PRIVATE STORMWATER FEATURES WILL BE PROVIDED AS PART OF FINAL APPROVAL. PERPETUAL MAINTENANCE AGREEMENT WITH THE CITY FOR PRIVATE

STORMWATER SHALL BE RECORDED PRIOR TO COMMENCEMENT OF CONSTRUCTION.

OAKLAND COUNTY WATER RESOURCE COMMISSION.

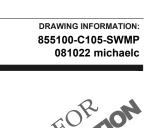
AND OUTLET OVER A 48 HOUR PERIOD.

BELOW THE UNDERGROUND DETENTION AND IN THE CISTERN.

BE DIRECTED ONTO GRASS, LANDSCAPE OR OTHER GREEN SPACE.

Grand Rapids, MI 49546

P: 616.977.1000 F: 616.977.1005



855100

APRIL 2022

C105

Land Use Summary

Characteristic	Existing Conditions	Proposed Conditions
Total Development Area (ac)	0.36	0.36
Impervious Area (ac)	0.35	0.31
Total Pervious Area (ac)	0.01	0.05
Pervious Area Beakdown by Cover Type		
Meadows/fallow/natural areas (non-cultivated)	0 acres	0 acres
Predominate NRCS Soil Type (A, B, C, of D)	Туре С	Туре С
Improved area (turf grass, landscape, row crops)		0.05
Predominate NRCS Soil Type (A, B, C, of D)	Туре С	Туре С
Wooded Area	0 acres	0 acres
Predominate NRCS Soil Type (A, B, C, of D)	Type C	Туре С
Proposed Pond Are	a (acres)	0
Required CVPC Vol	ume (cubic feet)	1426
Provided CVPC Vo	lume (cubic feet)	1500
Required ED Volum	e (cubic feet)	2084
Provided ED Volur	ne (cubic feet)	2084
Provided 100 yr Vo	olume (cubic feet)	2874

Runoff Coefficient	Determination		
	A acres	C factor	
Total Area	0.36		
Impervious Area	0.20	0.95	
Green Roof Area	0.11	0.95 *	
Pervious Area	0.05	0.25	
C factor =	(Ai*Ci)/A =	0.84	
100-year Peak Inter	nsity		
I ₁₀₀ = 83.3/((9.	17 + T)^0.81)	T time of concentra	tio
I ₁₀₀ = 7.	62 in/hr	T= 1	0 n
Channel Protection	Volume Control		
CPVC= A*C*471	9 cuft =	1426 cu ft	
Channel Protection	Rate Control		

100-yr Peak Allowable Discharge Q $Q_o = Qallow * A$ 100-yr Peak Pond Inflow O_i $Q_i = C * I100 * A$

Proposed Pond Area (acres) 0 Storage Ratio Vr/Vs Required CVPC Volume (cubic feet) 1426 $V_r/V_s = .20615 ln(Q_o/Q_o)$ Provided CVPC Volume (cubic feet) 1500 = 0.485	te NRCS Soil Type (A, B, C, of D)	Type C	Туре С	V _r = =	18985 * C * A 5736
Required CVPC Volume (cubic feet) 1426 $V_r/V_s = .20615 \ln(Q_o/Q_o)$	Proposed Pond Area (acr	es)	0		
$V_r/V_s = .20615 ln(Q_o/Q_o)$				Storage F	Ratio Vr/Vs
	Required CVPC Volume (o	cubic feet)	1426		
Provided CVPC Volume (cubic feet) 1500 = 0.485				$V_r/V_s =$.20615ln(Q _o /Q _i)
	Provided CVPC Volume (cubic feet)	1500	=	0.485

2084 cu ft

100-yr Required Storage Volume V_s

$V_s =$	V _r * Storage Ratio	cu ft	
	2783	cu ft	

cu ft

cu ft

Average Discharge Rate Q

Average Head have

Orifice Calculations for CPRC

Q _{ave} =	CPRC Volume/172800 =	0.012 cfs

h _{ED} =	maximum depth from C	PRC storage =	1.31 ft
h _{a ve} =	h _{ED} /2	=	0.655 ft

Extended Detention Orifice Area (a)

a =	Q _{ave} /(0.62(2*g*h _{ave})^0.5)	orifice area in square feet
	0.003 sq ft	

Extended Detention Orifice Diameter (d)

d =	12*(4*(a/))^.5
	0.74 inches

Orifice Calculations for Flood Control Max allowable outlet $Q_0 = 0.36$

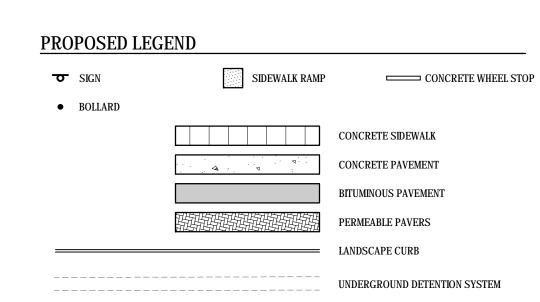
Q from lov	wer orifice at maxi	mum depth
h= 657.83	-655.69 =	2.14 '
Q=	(0.62*a(2*g*h _{ave}))^0.5)
	0.022 cfs	

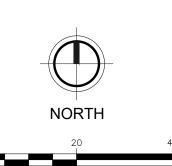
Q aval =	0.36	-0.022 =	0.336

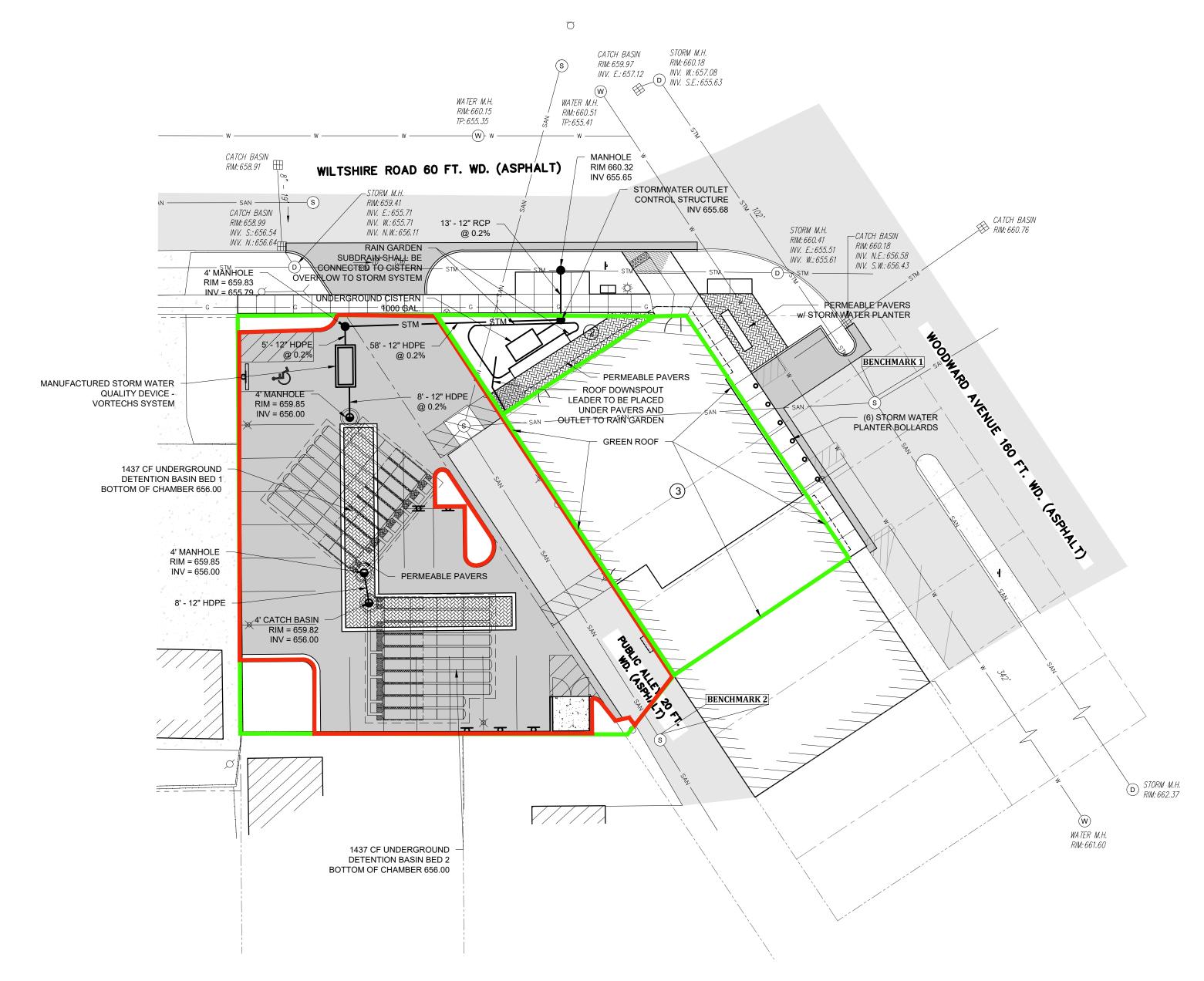
$a = Q_{ave}/(0.62(2*g*h)^0.5)$ 0.074 sq ft

Flood Control Orifice Diameter (d)

d = 12*(4*(a/||))^.5 **3.69** inches







<u>AREAS</u>

- 1 PARKING AREA 0.23 ACRES IMPERVIOUS - 0.20 ACRES PERVIOUS - 0.03 ACRES
- 2 BIOSWALE & PERMEABLE PAVERS
- 0.02 ACRES 3 GREEN ROOF - 0.11 ACRES

100-year Detention Volume

1.32

0.36

2.30

100-yr Runoff Volume V_r

cfs/acre

max allowable per site size

Runoff Coefficient Determination

CPRC= A*C*6897 cuft =

855100-C501-DETL 071122 joel.oconnell

APRIL 2022 F&V PROJECT NO. 855100

SPECIAL FOUNDATION AREA: from 12" below invert of pipe to satisfactory foundation soils. TRENCH BACKFILL AREA: MDOT 902.07; granular material class II.

TRENCH AREA: from 12" above crown of pipe to bottom of pavement section or to bottom of topsoil layer.

BEDDING AREA BACKFILL: MDOT 902.07; granular material class II limited to 1 inch maximum size. SPECIAL FOUNDATION AREA BACKFILL: MDOT 902.07, granular material class II limited to 1 inch

UTILITY TRENCH BACKFILL MATERIALS:

BEDDING AREA: from 12" above crown of pipe to 12" below invert of pipe.

CORRUGATED HDPE HAUNCH AND BACKFILL: haunch backfill initial backfill in accordance with pipe manufacturer's specifications.

Note: suitable on-site granular material may be substituted for MDOT 902.07, granular material class II, if

approved by engineer

UTILITY TRENCH EXCAVATION AND BACKFILL METHODS:

Surplus material shall become property of contractor for disposal.

PLACE SIGN 1' BEHIND

EDGE OF WALK UNLESS

SHOWN OTHERWISE ON

SITE LAYOUT

SPECIAL FOUNDATION AREA BACKFILL: notify engineer when soil under bedding area is muck, silt, organic content soil, or highly saturated plastic soil to determine required depth of special foundation area. Compact to 95% of maximum density per ASTM D1557 (modified proctor) in layers not exceeding 6 inches.

BEDDING AREA AND TRENCH AREA BACKFILL: compact to 95% of maximum density per ASTM D557 (modified proctor) in layers not exceeding 6 inches.

CORRUGATED HDPE HAUNCH AND BACKFILL: Place and compact haunch backfill area and initial backfill area in accordance with pipe manufacturer's specifications.

PAVEMENT MATERIALS:

SUBGRADE UNDERCUTTING BACKFILL: MDOT 902.07, granular material class II, or suitable on site granular material approved by engineer.

SUBBASE: MDOT 902.07, granular material class II, or suitable on site granular material approved by

BASE COURSE: MDOT 902.05, 21AA aggregate.

BOND COAT: MDOT 904.03, SS-1H or CSS-1H.

BITUMINOUS BASE COURSE: MDOT bituminous mixture 3C, performance grade 58-28 asphalt cement. BITUMINOUS SURFACE COURSE: MDOT bituminous mixture 5E1, performance grade 58-28 asphalt

CONCRETE: MDOT 601, grade P1.

WELDED WIRE FABRIC: MDOT 905.06 CONCRETE JOINT FILLER: MDOT 914.03.

CONCRETE JOINT SEALANT: MDOT 914.04.

PAVEMENT CONSTRUCTION METHODS:

SITE PREPARATION AND EARTHWORK: MDOT 205.03.A., 205.03E (subgrade undercutting type II), and 205.03.F.-205.03.H.

BASE COURSE: MDOT 302.03.

BOND COAT: MDOT 501.03.D.

BITUMINOUS LEVELING AND TOP COURSES: MDOT 501.03A., 501.03.C., 501.03.E-501.03.K. Vibratory rollers prohibited.

CONCRETE PAVEMENT: MDOT 602.

CONCRETE CURB AND GUTTER: MDOT 802.03. Place expansion joints at spring line of pavement, at junction with existing curb, at junction with adjacent concrete pavement, and every 100 feet. Place plane of weakness joint every 10 feet.

CONCRETE PAVEMENT JOINTS: place expansion joints along walls, around drainage structures, and where shown on plans. Space control joints at distances equal to 24 to 30 times the thickness of the slab.

STORM STRUCTURE MATERIALS:

TRENCH AREA: from bottom of structure to bottom of payement section or to bottom of topsoil layer.

BEDDING AREA: from bottom of structure to 12" below bottom of structure.

SPECIAL FOUNDATION AREA: from 12" below bottom of structure to satisfactory foundation soils.

TRENCH AREA BACKFILL: MDOT 902.07 class II for catch basins & manholes. MDOT 902.06, 34R for leaching basins.

BEDDING AREA BACKFILL: MDOT 902.07 class II for catch basins & manholes. MDOT 902.06, 34R for leaching basins.

SPECIAL FOUNDATION AREA BACKFILL: MDOT 902.07 class II.

DRAINAGE MATERIAL: MDOT 902.06, 34R. MDOT 902.03, 6A FOR LEACHING BASINS. CONCRETE: MDOT 7.01, S3.

MORTAR: ASTM C270, TYPE S.

BASE SLAB: ASTM C478.

PRECAST REINFORCED CONCRETE WALL SECTION: ASTM C478; rubber o-ring per ASTM C443.

CATCH BASIN FLAT TOP: ASTM C478.

GRADE RINGS: ASTM C478.

MANHOLE STEPS: EJIW 8500 or equal.

GRATE AND CASTING:

1. CURB AND GUTTER SECTION: A. STANDARD: EJIW 7045, TYPE M1 GRATE, TYPE T1 BACK, OR EQUAL. B. WIDE: EJIW 7030, TYPE M2 GRATE, TYPE T1 BACK, OR EQUAL. C. DOUBLE: EJIW 7031, TYPE M2 GRATE, TYPE T1 BACK, OR EQUAL.

D. GUTTER PAN: EJIW 5105, TYPE M1 GRATE, OR EQUAL.

2. VALLEY GUTTER SECTION:

A. STANDARD: EJIW 7065, TYPE M1 GRATE, TYPE T1 BACK, OR EQUAL. B. WIDE: EJIW 7030, TYPE M2 GRATE, TYPE T3 BACK, OR EQUAL.

C. DOUBLE: EJIW 7031, TYPE M2 GRATE, TYPE T3 BACK, OR EQUAL.

3. IN PAVEMENT SECTION: A. STANDARD: EJIW 1040, TYPE M1 GRATE, OR EQUAL.

B. STANDARD: EJIW 5105, TYPE M1 GRATE, OR EQUAL

4. DITCH SECTION: A. STANDARD: EJIW 1040, TYPE O2 BEEHIVE GRATE, OR EQUAL. B. LARGE: EJIW 6488, OR EQUAL.

5. STORM MANHOLE:

A. STANDARD: EJIW 1040, TYPE "B" COVER, OR EQUAL, IMPRINTED WITH LETTERING "STORM SEWER".

PIPE CONNECTION SEALS: all pipe connection openings shall be precast with resilient rubber water tight pipe to manhole sleeves or seals with s.s. straps, per ASTM C923. NOTE: suitable on site granular material may be substituted for MDOT class II if approved by engineer.

STORM STRUCTURE CONSTRUCTION METHODS:

TRENCH AREA BACKFILL: do not backfill until concrete has reached 75% of design strength. Compact to 95% of maximum density per ASTM D1557 (modified proctor) in layers not exceeding 6 inches.

BEDDING AREA BACKFILL: compact to 95% of maximum density per ASTM D1557 (modified proctor). SPECIAL FOUNDATION AREA BACKFILL: notify engineer when soil under bedding area is muck, silt, organic content soil, or highly saturated plastic soil to determine required depth of special foundation area. Compact to 95% of maximum density per ASTM D1557 (modified proctor) in layers not exceeding 6 inches.

PRECAST CONCRETE WALL SECTION: fill joints completely with mortar and trowel.

GRADE RINGS: set in full bed of mortar and coat exterior with 1/2 inch of mortar.

CASTING SETTING: set in full bed of mortar at elevation specified on plans.

SILT FENCE

___x___x__x__x__x__x__x__x__x__x__x

CASTING AND GRADE RINGS WITH GASKETS/SEALANTS

4" MIN. PEA GRAVEL IN CLAY

OR WET CONDITIONS

CASTING AND GRADE RINGS

ECCENTRIC CONE

BACKFILL

4" MIN. PEA GRAVEL IN CLAY OR WET CONDITIONS

> -TOP OF BEDDING

GRADE

OR FLAT TOP

WITH GASKETS/SEALANTS

AS SPECIFIED

2' DIA. CATCH BASIN

4' DIA. CATCH BASIN

UTILITY TRENCH

FINISHED BACKFILL GRADE

SPRING LINE -

AS SPECIFIED

FINISHED

PREFABRICATED

FINISHED

PREFABRICATED RUBBER

BOOT (TYPICAL)

GRADE

RUBBER BOOT (TYPICAL)

GRADE

1 - PROVIDE 3/8" EXPANSION JOINT WHERE WALK MEETS BUILDING OR RETAINING WALL.

2 - CONCRETE POUR NOT TO EXCEED 400 S.F. PER SECTION, LENGTH OF POUR SHALL NOT EXCEED WIDTH BY 4 TIMES

CONCRETE PAVEMENT SECTION

WALK WIDTH AS SPECIFIED ON DRAWINGS → 2% SLOPE - MIN OF 4" GRANULAR MATERIAL

NOTES:

1. ½" EXPANSION JOINTS SHALL BE MAXIMUM OF 50' ON

2. 1/2" EXPANSION JOINT MATERIAL SHALL BE PLACED BETWEEN SIDEWALK AND RIGID STRUCTURES.

3. INSOFAR AS POSSIBLE, SIDEWALK SHALL BE DIVIDED INTO SQUARE UNIT AREAS BY MEANS OF CUT CONTROL JOINTS NOT MORE THAN 36 SFT OR LESS THAN 16 SFT.

BARRIER FREE PARKING SIGN DETAIL

CAP POST END

1/2" CROWN

OR PAVEMENT

CONCRETE FOOTING

PRECAST BLOCK

FINISH SURFACE GRADE

COMPACTED SUBGRADE

ACCESSIBLE

- ALUMINUM ACCESSIBLE PARKING SIGN

WITH IDENTIFICATION SYMBOL BOLT TO STEEL TUBE WITH 3/8" CADMIUM

PLATED BOLTS, NUTS, AND WASHERS

ALUMINUM VAN ACCESSIBLE PARKING SIGN

INSTALL AT VAN ACCESSIBLE SPACES ONLY

2-1/2" SQUARE STEEL TUBE, PRIMED & PAINTED

(SUPPORT POSTS SHALL BE GRADE 60 STEEL)

VAN SPACES MUST

ACCESSIBLE SIGN

NOTE: (REFER TO THE FOLLOWING FOR ADDITIONAL DETAILS AND REQUIREMENTS)

2. ICC/ANSI A 117.1-1998 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES.

1. ADA-ABA ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES AS AMENDED AUGUST 5, 2005.

3. UNLESS SPECIFIED OTHERWISE BY LOCAL REGULATIONS, MARKINGS SHALL BE BLUE IN COLOR AND

BARRIER FREE PARKING

NOT TO SCALE

WOOD GATE FOR TRASH ENCLOSURE

- FENCE POSTS DRIVEN

INTO GROUND 1' MIN.

PLACED USING PAINTS OR THERMOPLASTICS IN ACCORDANCE WITH THE 2011 MICHIGAN M.U.T.C.D.

INCLUDE A VAN

BOLT TO STEEL TUBE WITH 3/8" CADMIUM PLATED BOLTS, NUTS, AND WASHERS

4" CONCRETE SIDEWALK

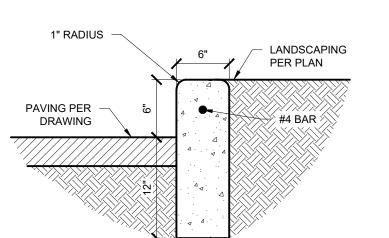
- 1.5" MDOT 5E1 WEARING COURSE 1.5" MDOT 3C LEVELING COURSE NFW ASPHALT EXISTING/ASPHAL XXX MILLED ASPHALT KEY 1.5" DEEP X 12" WIDE HOT TAR SEAL EXISTING ASPHALT

HMA PAVEMENT SECTION

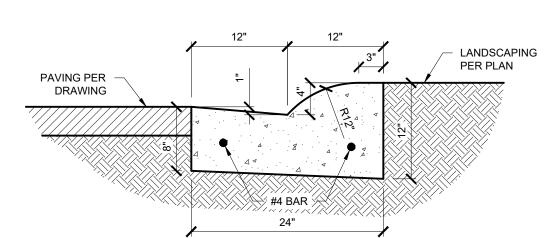
NOT TO SCALE

8" AGGREGATE BASE —

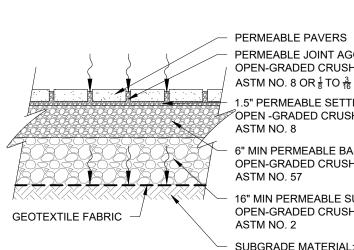
12" SAND SUBBASE —



LANDSCAPE CURB DETAIL

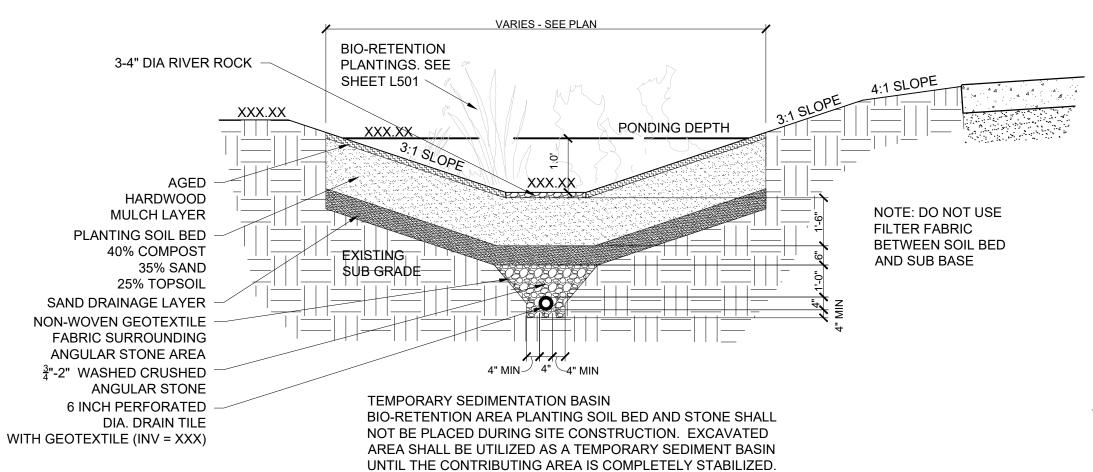


MOUNTABLE CURB DETAIL



PERMEABLE JOINT AGGREGATE: OPEN-GRADED CRUSHED, ANGULAR STONE ASTM NO. 8 OR $\frac{1}{8}$ TO $\frac{3}{16}$ INCH GRANITE CHIP 1.5" PERMEABLE SETTING BED AGGREGATE: OPEN -GRADED CRUSHED, ANGULAR STONE: 6" MIN PERMEABLE BASE AGGREGATE: OPEN-GRADED CRUSHED ANGULAR

16" MIN PERMEABLE SUBBASE AGGREGATE: OPEN-GRADED CRUSHED, ANGULAR STONE SUBGRADE MATERIAL:



RAINGARDEN - TYPICAL CROSS SECTION NOT TO SCALE

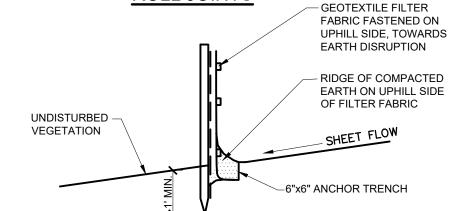
ONCE THE CONTRIBUTING AREA IS STABILIZED, ALL SEDIMENT

SHALL BE REMOVED AND THE BIO-SWALE AREAS SHALL BE

FOR CONVERSION TO A PERMANENT FACILITY.

EXCAVATED FOR PLACEMENT OF THE SOIL BED AND STONE

PERVIOUS PAVERS CROSS SECTION NOT TO SCALE



SILT FENCE B

ROLL JOINTS

FABRIC TO BE WRAPPED

AROUND FENCE POST

SPACING 6-10' MAX.

-ROLL JOINT

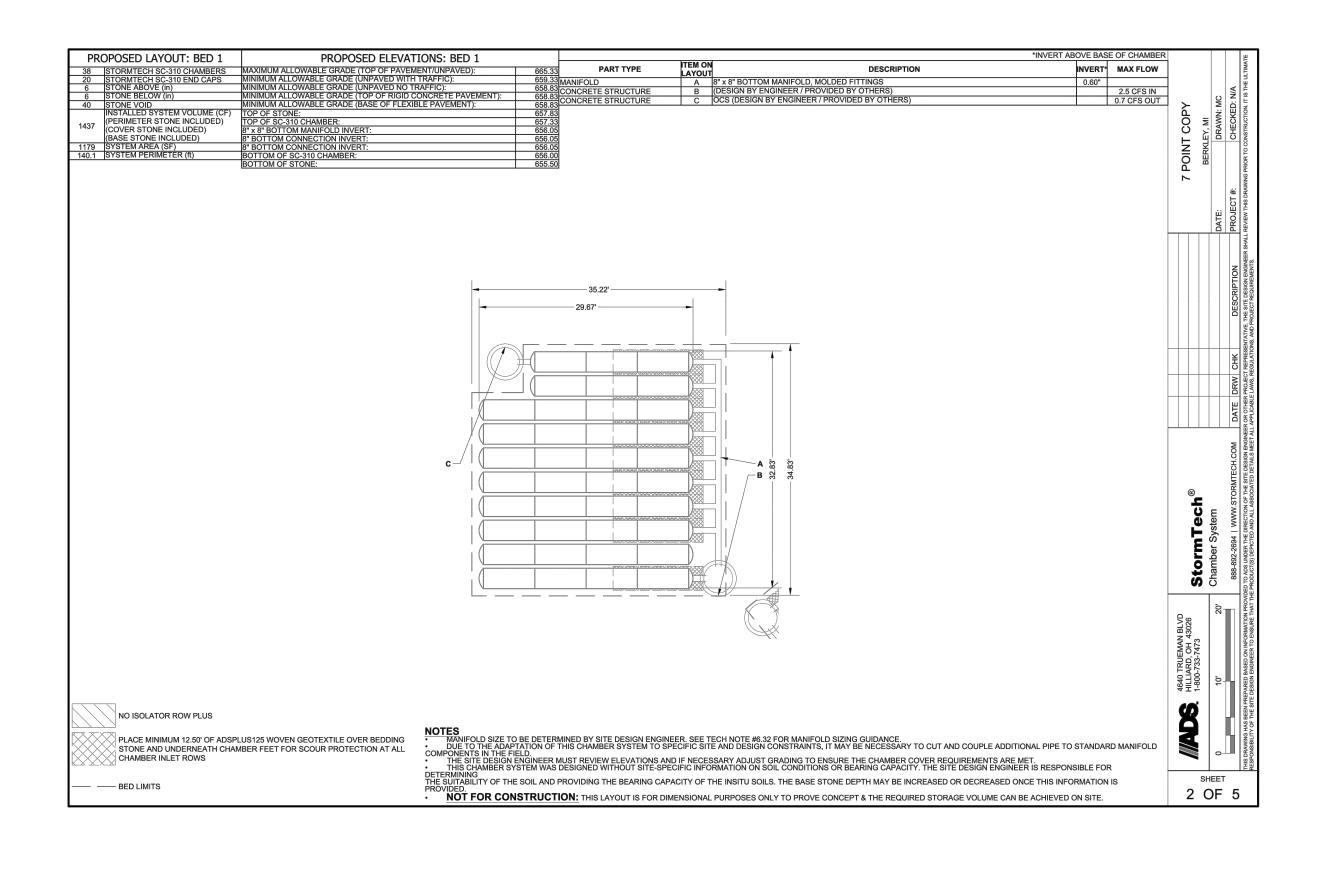
C501

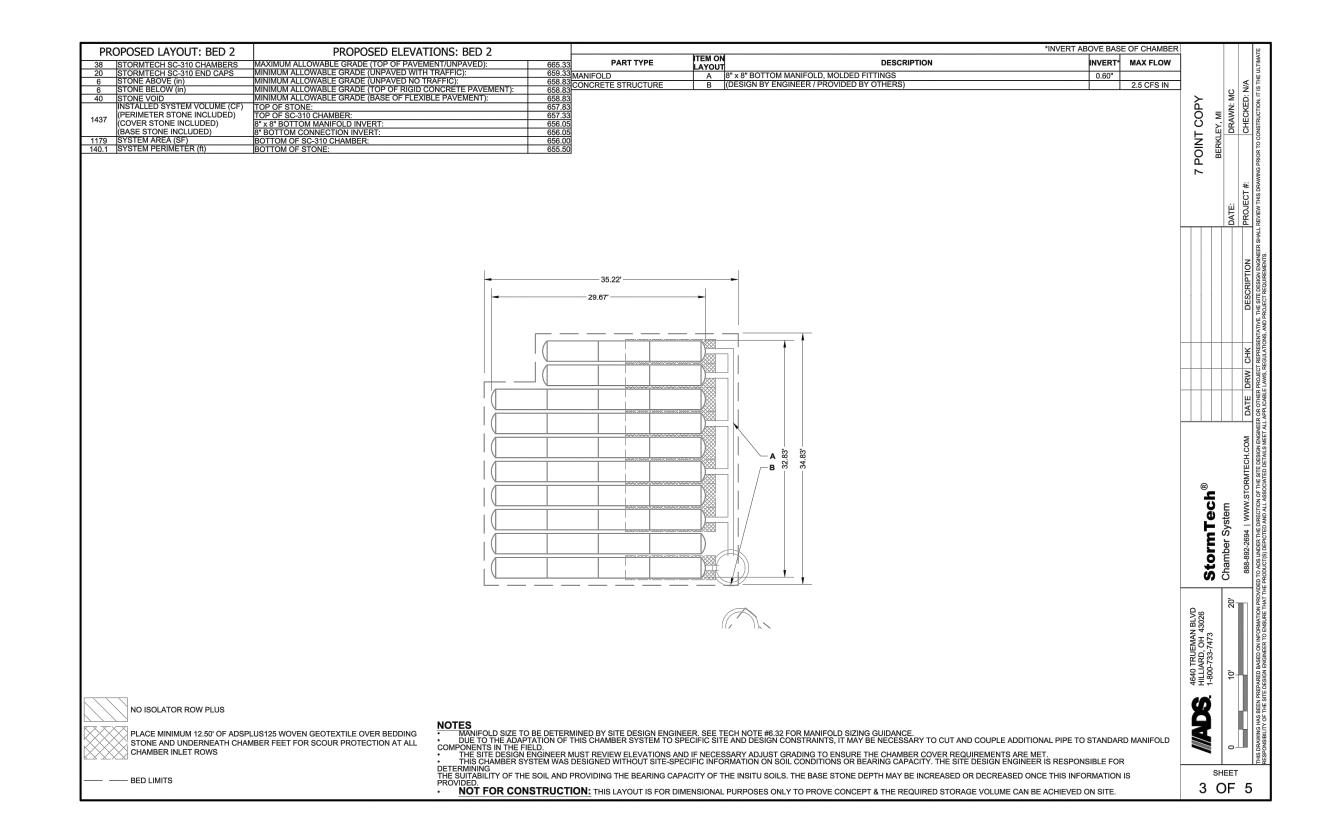
SEVEN POINT BERKI WOODWARD AVE, BERKLEY, MI 4

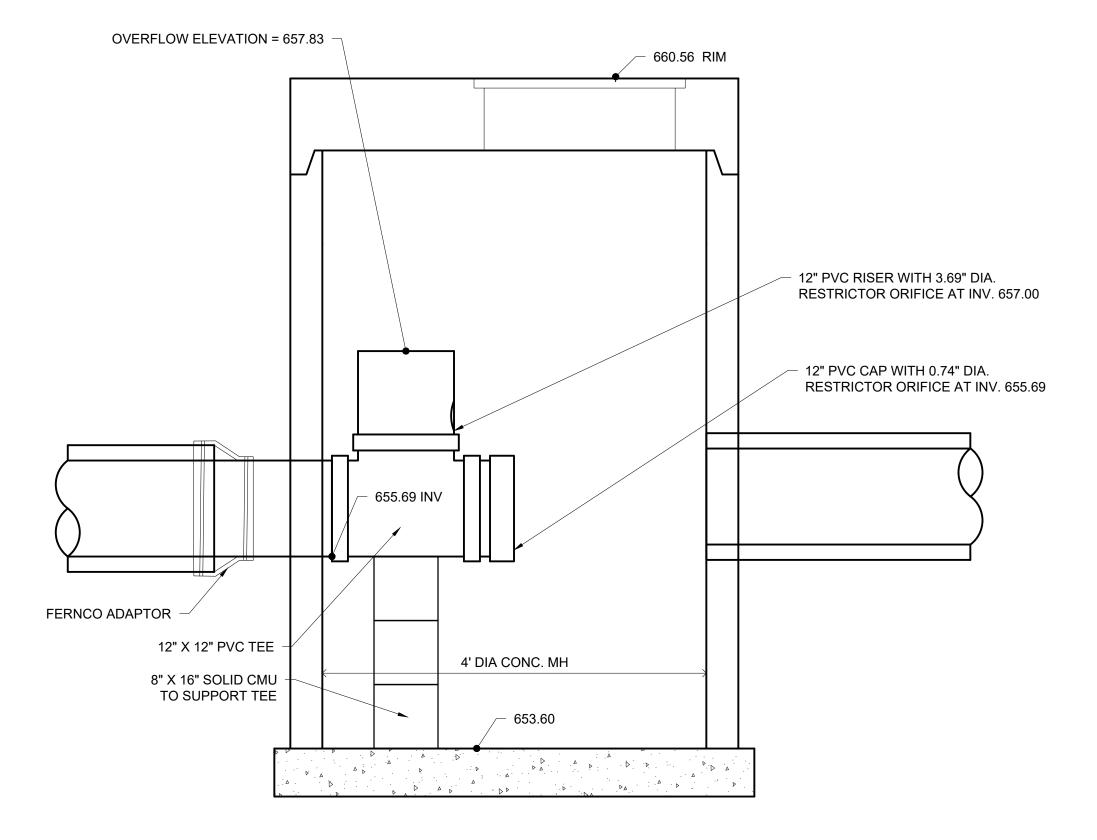
DRAWING INFORMATION: 855100-C502-SWDETL 080922 michaelc

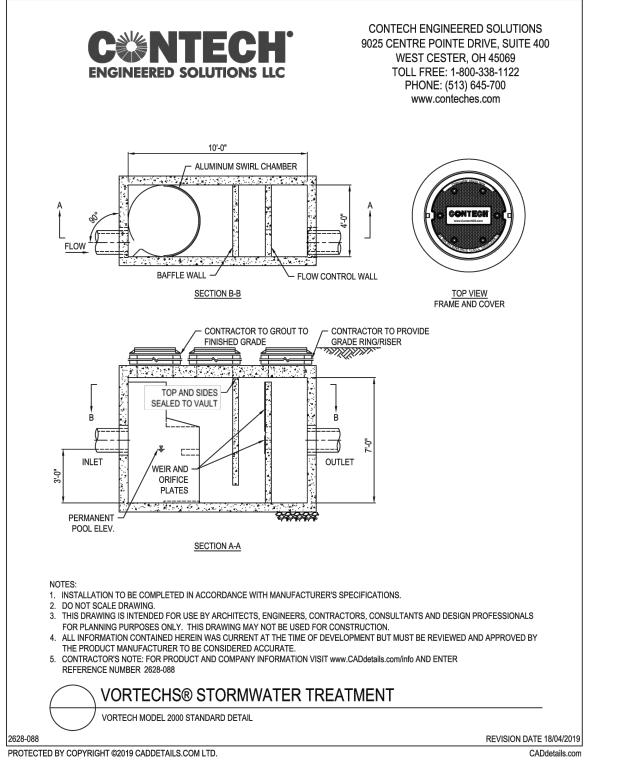
CONSTRUCTION CONSTRUCTION

F&V PROJECT NO. 855100









	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT	₽		DRAWN: MC
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.	POINT COPY	ERKLEY, MI	DRAN
С	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145¹ A-1, A-2-4, A-3 OR AASHTO M43¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).	7 PC	8	DATE:
В	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.			
Α	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}			
	MPACTION REQUIREMENTS. CE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP T	O THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO	REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C	C'OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.			
	ADS GEOSYNTHETICS 601T AROUND CLEAN, CRUSHED, AND	NON-WOVEN GEOTEXTILE ALL SULLAR STONE IN A & B LAYERS	PAVEMENT LAYER BY SITE DESIGN E				
	PERIMETER STONE (SEE NOTE 5)		TO BOTTOM OF FLEXIBLE PAVEMENT. FOR UNPAVED STALLATIONS WHERE RUTTING FROM VEHICLES MAY OCCUR, INCREASE COVER TO 24" (600 mm).	6" (150 mm) 18" 8' MIN (450 mm) MIN" (2.4 m)			
	EXCAVATION WALL (CAN BE SLOPED OR VERTICAL) 12" (300 mm) MIN	SC-310 END CAP SUBGRADE SOILS (SEE NOTE 4) (150 mm) M	16" (405 nm) — 12" (300 mm)	DEPTH OF STONE TO BE DETERMINED BY SITE DESIGN ENGINEER 6" (150 mm) MIN		Storm I ech	
CH/	(CAN BE SLOPED OR VERTICAL)	SC-310 END CAP SUBGRADE SOILS 6" (150 mm) M ASTM F2418 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGA	(405 n 12" (300 m 12"	DEPTH OF STONE TO BE DETERMINED BY SITE DESIGN ENGINEER 6" (150 mm) MIN	IN BLVD 43026	3 Storm I eC	
CH/ SC- CH/ THE COI	(CAN BE SLOPED OR VERTICAL) 12" (300 mm) MIN ———————————————————————————————————	SC-310 SUBGRADE SOILS 6" (150 mm) M ASTM F2418 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGAL IDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGAL ISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE	(405 nm) — 12" (300 mm)	DEPTH OF STONE TO BE DETERMINED BY SITE DESIGN ENGINEER 6" (150 mm) MIN	BLVD 3026	Chamber System	

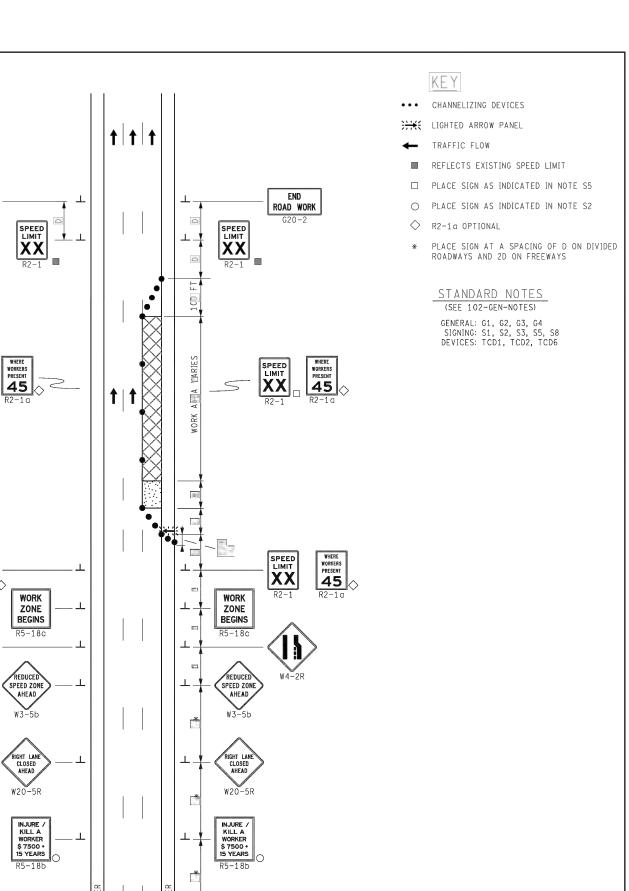
APRIL 2022

ERKI Y, MI 4

OINT BE, BERKLEY

F&V PROJECT NO.

855100



SINGLE RIGHT LANE CLOSURE

MAINTAINING TRAFFIC TYPICAL

203-FW-1LC-(R)

THE FOLLOWING NOTES APPLY IF CALLED FOR ON THE TRAFFIC TYPICAL

END ROAD WORK

SPEED LIMIT X X

Wichigan Department of Transportation

ROLL AHEAD DISTANCE

SIGN NOTES

MDOT

NOT TO SCALE

: SEE GEN-SPACING-CHARTS FOR COMMON VALUES INCLUDING:

2: DISTANCE BETWEEN SIGNS, "D", THE VALUES FOR WHICH ARE SHOWN IN TYPICAL GEN-KEY ARE APPROXIMATE AND MAY NEED ADJUSTING AS DIRECTED BY THE ENGINEER.

G3: ALL TEMPORARY SIGNS, TYPE III BARRICADES, THEIR SUPPORT SYSTEMS AND LIGHTING MUST MEET NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM REPORT 350 (NCHRP 350) TEST LEVEL 3, OR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) TL-3 AS WELL AS THE CURRENT EDITION OF THE MIGHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION, THE STANDARD PLANS AND APPLICABLE SPECIAL PROVISIONS. ONLY DESIGNS AND MATERIALS APPROVED BY MOOT WILL BE ALLOWED.

4: DO NOT STORE EQUIPMENT, MATERIALS OR PERFORM WORK IN ESTABLISHED BUFFER AREAS.

: ALL NON-APPLICABLE SIGNING WITHIN THE CIA MUST BE MODIFIED TO FIT

CONDITIONS, COVERED, OR REMOVED. FOR GUIDANCE SEE THE WORK ZONE SAFETY AND MOBILITY MANUAL, SECTIONS 6.01.09 AND 6.01.10.

OMIT THIS SIGN IN SUBSEQUENT SEQUENCES IN THE SAME WORK ZONE.

AND CONSOLIDATE THE SEQUENCE AS APPROPRIATE.

2: R5-18b SIGNS ARE ONLY REQUIRED ON FREEWAY PROJECTS WITH A DURATION OF 15 DAYS OR LONGER OR NON-FREEWAY PROJECTS WITH A DURATION OF 90 DAYS OR LONGER. TO APPLY THIS TYPICAL WITHOUT R5-18b SIGNS, REMOVE THE SIGNS

3: R5-18c IS ONLY REQUIRED IN THE INITIAL SIGNING SEQUENCE IN THE WORK ZONE.

WHEN TRAFFIC VOLUMES ARE SIGNIFICANT ENOUGH TO CREATE BACKUPS BEYOND THE W20-5 SIGNS.

S5: PLACE ADDITIONAL SPEED LIMIT SIGNS REFLECTING THE WORK ZONE SPEED AFTER EACH MAJOR CROSSROAD THAT INTERSECTS THE WORK ZONE, OR AFTER EACH ENTRANCE RAMP THAT COMES ONTO THE FREEWAY WHERE THE REDUCED SPEED IS IN EFFECT. PLACE ADDITIONAL SPEED LIMIT SIGNS AT INTERVALS ALONG THE ROADWAY SUCH THAT NO SPEED LIMIT SIGNS ARE MORE THAN 2 MILES APART. WHEN REDUCED SPEED LIMITS ARE UTILIZED IN THE WORK AREA, PLACE ADDITIONAL SPEED LIMIT SIGNS RETURNING TRAFFIC TO ITS NORMAL SPEED BEYOND THE LIMITS OF THE WORK AREA AS INDICATED. IF PERMANENT SIGNS DISPLAYING THE CORRECT SPEED LIMIT AND POSTED OMIT ALL WAS ED AND REAL SIGNS AND REPORTED SPEED.

6: FABRICATE SPECIAL SIGNS IN ACCORDANCE WITH CURRENT SIGNING DESIGN

7: PLACE ADDITIONAL R8-3 SIGNS AT A MAXIMUM 500' SPACING THROUGHOUT

S8: WHEN SPEED LIMIT SIGNS CANNOT BE PLACED SIDE BY SIDE AS SHOWN, PLACE THEM "D" DISTANCE APART.

S10: PLACE REDUCED SPEED ZONE AHEAD SIGN (W3-5b) HERE WHEN USING A SPEED REDUCTION IN THIS DIRECTION.

NOT TO SCALE

S11:THE NUMBER OF W1-6 SHIFT SIGNS TO PLACE FOR A SHIFT IS AS FOLLOWS:
SHIFTS 4FT OR LESS, PLACE ONE W1-6(R)(L)
SHIFTS 5FT TO 12FT, PLACE TWO W1-6(R)(L)
SHIFTS MORE THAN 12FT, PLACE THREE OR MORE W1-6(R)(L) SIGNS DEPENDING UPON LENGTH OF SHIFT AND AS PER THE ENGINEER.

12:PLACE R2-1 SIGNS AS DETAILED IN NOTE S5 WHEN THERE IS A SPEED REDUCTION IN THIS DIRECTION

102-GEN-NOTES

59: STOP SIGNS NOT REQUIRED IF SIGNALS ARE ON 4-WAY FLASHING RED.
STOP AHEAD SIGNS ARE NOT REQUIRED IF THERE IS ADEQUATE VISIBILITY OF THE STOP SIGN OR IF SIGNALS ARE BEING USED TO CONTROL TRAFFIC.

SPEED LIMIT ARE POSTED, OMIT ALL W3-5b AND R2-1 SIGNS AND REDUCE SPACING

35: ALL EXISTING PAVEMENT MARKINGS WHICH ARE IN CONFLICT WITH EITHER PROPOSED CHANGES IN TRAFFIC PATTERNS OR PROPOSED TEMPORARY TRAFFIC MARKINGS SHALL BE REMOVED BEFORE ANY CHANGE IS MADE IN THE TRAFFIC PATTERN. EXCEPTION WILL BE MADE FOR TRAFFIC PATTERNS FOR WORK LESS THAN THREE DAYS THAT ARE ADEQUATELY DELINEATED BY OTHER TRAFFIC CONTROL DEVICES.

D = DISTANCE BETWEEN TRAFFIC CONTROL DEVICES
L = MINIMUM LENGTH OF TAPER
B = LENGTH OF LONGITUDINAL BUFFER

WHERE WORKERS PRESENT 45

* POSTED SPEE		PEAK	8	7 4								10
OPERATING SPE	ED.		85TH									42 PATED
			MIN	[MUM ME	ERGING T	APER LE	ENGTH, "I	L" (FEET)			
OFFSET											T	I
												75
												75 150
												225
				82	107	180	200	220	240	260	280	300
5	5	3	75	103	134	225	250	275	300	325	350	375
6	6	3	90	123	160	270	300	330	360	390	420	450
				143	187	315	350	385	420	455	490	525
												600
												675 750
												825
												900
13				266	347	585	650	715	780	845	910	975
1 4	14	6 2	210	286	374	630	700	770	840	910	980	105
												100
	[FEET] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13]	(FEET) 29 1 1 2 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9 10 10 11 11 12 12 13 13	(FEET) 25 1 11 2 21 3 32 4 42 5 53 6 63 7 73 8 84 9 94 10 105 11 115 12 125 13 136	OFFSET	POST	POSTED SPEE	POSTED SPEED LIMIT,	POSTED SPEED LIMIT, MPH (P CFEET) 25 30 35 40 45 50	POSTED SPEED LIMIT, MPH (PRIOR TO IFEET) 25 30 35 40 45 50 55 1		POSTED SPEED LIMIT, MPH (PRIOR TO WORK AREA)	POSTED SPEED LIMIT, MPH (PRIOR TO WORK AREA)

"B" LENGTHS			SI	PEED,*	MPH (PR	OR TO) WOF	RK AREA					
	20	25	30	35	40	45	50	5	5 6	0	65	70	75
B (FEET)	33	50	83 1	32	181	230	27	9 32	9 4	1 1	476	542	62
* POSTED OPERATING OFFSE (FEET 1) 2 3 4 5 6 7 8 9	T	MIN 30 15 30 45 60 75 30 105 105	NIMUM ME	ERGINO	E TAPER PEED LIMI D 45 PEED LIMI D 45 PEED LIMI D 135 PEED LIMI D 25 PEED LIMI D	T, MPH 5 5 1 (c) 2 (c) 3 (c) 3 (c) 4 (c) 4 (c) 4 (c) 6 (H, "L' H (PR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	" (FEET)		70 70 140 210 280 350 420 490	1 1 2 3 3 4 5	75 50 225 000 75 75 000 775 000 000 000 000 000
10	10		205	26				550	600	650			50
11	11		225	29			50	605	660	715			25
12	12		245	32			00	660	720	780			00
13	13	6 195	266	34	7 585	65	50	715	780	845	910	9	75
1 4	14	6 210	286	37	4 630	7(00	770	840	910	980	1()50
15	15	7 225	307	40	0 675	75	50	825	900	975	1050	11	. 25
TO SCALE													
TO SCALE		М	AINTAINING T	TRAFFIC	TYPICAL							ľ	DATE:
TO SCALE	NOT TO SCALE		AINTAINING TO TO THE TOTAL TO T			<u> </u>	СН		" AND "L			L	
MDOT		NO:		-GEI	V-	SIG		ANNELIZI	NG DEVI	CE SPA		5	NATE: HEET:
ENDOT an Department of Transportation	RTS.dgn THE FO	SP	101- ACING	-GEN -CH	N- HARTS F CALLED	1	N BOR	ANNELIZI RDER KEY	NG DEVI	CE SPA DLL-AHI	CING, EAD SPAC	5	SHEET:
on Deportment of Transportation 101-GEN-SPACING-CHA	THE FO	SP	101- ACING	-GEN -CH	N- HARTS F CALLED	1	N BOR	ANNELIZI RDER KEY	NG DEVI	CE SPA DLL-AHI	CING, EAD SPAC	5	HEET

DISTANCE BETWEEN TRAFFIC SIGNS, "D"



ONE	ON A FREEWAY	MAY 2021			MAINTAINING TRAFFIC TYPICAL		MAY 2021
-(R)	OR DIVIDED ROADWAY	1 OF 1	Michigan Department of Transportation	NOT TO SCALE	NO: 101-GEN- SPACING-CHARTS	"B", "D" AND "L" TABLES CHANNELIZING DEVICE SPACING,	SHEET:
		1011	FILE: 101-GEN-SPACING-CHA	RTS.dgn	SFACING-CHARTS	SIGN BORDER KEY, AND ROLL-AHEAD SPACING	1 0F 3
CALLE	ED FOR ON THE TRAFFIC TYPICAL			THE FOLLO	WING NOTES APPLY IF CALLED	FOR ON THE TRAFFIC TYPICAL	
T	RAFFIC REGULATOR NOTES		SIGNAL NOTES				
Т	R1:TRAFFIC REGULATORS MUST FOLLOW ALL THE REQUIREMENTS IN SPECIFICATIONS, THE STANDARD PLANS AND APPLICABLE SPEC. THE CURRENT VERSIONS OF THE TRAFFIC REGULATOR'S INSTRUCTION OF THE VIDEO "HOW TO SAFELY REGULATE TRAFFIC IN MICHIED THE MAXIMUM DISTANCE BETWEEN THE TRAFFIC REGULATORS IS BY THE ROADWAY ADT, GEOMETRICS, AND AS DIRECTED BY THE	IAL PROVISIONS, UCTION MANUAL GAN". S DETERMINED	SIG2: SIGNAL IS IN OPERATI SIG3: DELINEATE THE WORK 42 INCH CHANNELIZING	ON. ZONE AREA WITH 28 INC DEVICES FOR NIGHTIM	SHING RED, BAGGED, OR TURNED OFF. CH CONES FOR DAYTIME WORK, OR HE WORK. SPOTTER IF THE AERIAL BUCKET		
	R2:PROVIDE APPROPRIATE BALLOON LIGHTING TO SUFFICIENTLY ILI REGULATOR'S STATIONS WHEN TRAFFIC REGULATING IS ALLOWED THE HOURS OF DARKNESS.	D DURING	TRUCK IS LOCATED OV SIG5: THE LOWEST POINT OF CLEARANCE. THE CONT THE INTERSECTION IN COMPROMIZED. USE TR	/ER ACTIVE TRAVEL LAN F THE BUCKET MAY NOT FRACTOR MUST UTILIZE A 4 WAY STOP IF THE	IES. TRAVEL BELOW 14 FOOT VERTICAL AN ALTERNATE SET UP, OR PLACE 14 FOOT VERTICAL CLEARANCE IS CONTROL TRAFFIC THROUGH THE		
_	EMPORARY TRAFFIC CONTROL DEVICE NOTES CD1: THE MAXIMUM DISTANCE IN FEET BETWEEN CHANNELIZING DEV			WITH CHANNELIZING DE TO FACILITATE WORK.	VICES. THE POSITION OF THE		
.D	SHOULD NOT EXCEED 1.0 TIMES THE WORK ZONE SPEED LIMI ROADWAYS WITH A POSTED WORK ZONE SPEED LIMIT LESS TH SHOULD NOT EXCEED 50 FEET ON ROADWAYS WITH A POSTED LIMIT OF 45 MPH OR GREATER. THE SPACING FOR 42 INCH O TAPERS ARE NOT TO EXCEED 25 FEET AT NIGHT.	T IN MPH FOR IAN 45 MPH AND) WORK ZONE SPEED					
LL T	CD2: THE MAXIMUM DISTANCE IN FEET BETWEEN CHANNELIZING DEV		MAINTENANCE AND MS1: WHENEVER STOPPING S				
	SHOULD NOT EXCEED TWICE THE WORK ZONE SPEED LIMIT IN WITH A POSTED WORK ZONE SPEED LIMIT LESS THAN 45 MPH EXCEED 100 FEET ON ROADWAYS WITH A POSTED WORK ZONE 45 MPH OR GREATER. THE SPACING FOR 42 INCH CHANNELIZI ARE NOT TO EXCEED 50 FEET AT NIGHT.	AND SHOULD NOT E SPEED LIMIT OF	VEHICLES SHOULD MAII AREA AND PROCEEED SLOW DOWN AND TRAV	NTAIN THE RECOMENDED AT THE SAME SPEED. TH	DISTANCE FROM THE WORK HE SHADOW VEHICLE SHOULD ANCE TO PROVIDE ADEQUATE		
	CD3: TYPE III BARRICADES MUST BE LIGHTED FOR OVERNIGHT CLO		WITH AN ACTIVATED B	BEACON, BETWEEN THE "	WITHIN 150' OF WORK VEHICLES BEGIN WORK CONVOY" SIGN		
_ T	CD4: WHEN THE HAUL ROAD IS NOT IN USE, PLACE LIGHTED TYPE "ROAD CLOSED" EXTENDING COMPLETELY ACROSS THE HAUL R		"END ROAD WORK" SIGN	٧.	EN THE "WORK ZONE BEGINS" AND		
T	CD5: USE OBJECT MARKER SIGNS IN LIEU OF THE TYPE B HIGH IN IN THE STANDARD PLAN FOR TEMPORARY CONCRETE BARRIER WHEN USED WITH A TEMPORARY SIGNAL SYSTEM. THE OBJEC A MINIMUM OF 12 INCHES IN WIDTH AND 36 INCHES IN HEIGH AND WHITE RETROREFLECTIVE SHEETING. THE RETROREFLEC' HAVE ALTERNATING DIAGONAL ORANGE AND WHITE STRIPES S AN ANGLE OF 45 DEGREES IN THE DIRECTION VEHICULAR TRA	(R-53, AND R-126) T MARKERS MUST BE HT AND HAVE ORANGE TIVE SHEETING MUST LOPING DOWNWARD AT		SPACE FROM TRAFFIC. I CCORDING TO THE ROLL HICLES SHALL BE APPRO	F USED, THE VEHICLES AHEAD DISTANCE		
T	CD6: PLACE LIGHTED ARROW PANELS AS CLOSE TO THE BEGINNING PRACTICAL, BUT NOT IN A MANNER THAT WILL OBSCURE OR MOTORISTS WHEN PHYSICAL LIMITATIONS RESTRICT PLACEMEI SECTIONS, IF ARROW BOARD CANNOT BE PLACED BEHIND CUR BOARD IN THE CLOSED LANE AS CLOSE TO THE BEGINNING O	CONFUSE APPROACHING NT. IN CURBED B, PLACE ARROW	CHANNELIZING DEVICES SPACING MUST BE USE TO) IS THE LAYOUT O	IS OCCURRING DURING T 5 TO DELINEATE OPEN O D. AN EXAMPLE OF AN OF CONCRETE PATCHES.	HE NIGHTTIME HOURS, R CLOSED LANES AT 50 FT OPERATION (BUT NOT LIMITED		
T-	CD7: ADDITIONAL TYPE III BARRICADES MAY BE REQUIRED TO COM OFF ROAD FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT		MS6: W21-6 AND W20-1 SI TYPE OF WORK TAKING	GNS MAY BE SUBSTITUTE G PLACE AS PER THE EN			
L S	CD8: WHERE THE SHIFTED SECTION IS SHORTER THAN 600 FEET, REVERSE CURVE SIGN (W24-1) CAN BE USED INSTEAD OF TH REVERSE CURVE SIGN, AND THE SECOND REVERSE CURVE SIG	E FIRST					
Γ T	CD9: RUMBLE STRIPS ARE TO BE PLACED AS SPECIFIED IN THE CO IF NOT SPECIFIED IN THE CONTRACT, PLACE RUMBLE STRIPS SHOWN, AND IN ACCORDANCE WITH THE RUMBLE STRIP MANUF RECOMMENDATIONS. AN ARRAY OF RUMBLE STRIPS CONTAINS THREE RUMBLE STRIPS. PLACE THE RUMBLE STRIPS IN THE A AT A CONSISTENT DISTANCE, BETWEEN 10' AND 20' APART.	AS ACTURER'S RRAY					
T	CD10: SEE THE WORK ZONE SAFETY AND MOBILITY MANUAL, PORTA CHANGEABLE MESSAGE SIGN GUIDELINES FOR RECCOMENDED A CORRECT PCMS MESSAGING. STAGGER PCMS THAT ARE ON OP SIDES OF THE ROAD 1000 FEET FROM EACH OTHER.	ND					
R	RAMP NOTES						
RI	MP1: WHEN CONDITIONS ALLOW, E5-1 SIGNS MUST BE REMOVED OR CHANELIZING DEVICES MUST BE POSITIONED TO ENABLE RAMF DIVERGE IN A FREE MANNER						
RI ON	MP2: STOP AND YIELD CONDITIONS SHOULD BE AVOIDED WHENEVER WHEN CONDITIONS WARRANT, R1-1 SIGNS MAY BE USED IN PI R1-2 SIGNS. WHEN R-1 SIGNS ARE USED, W3-1 SIGNS MUST IN PLACE OF W3-2 SIGNS. CONSIDERATION SHOULD BE GIVEN THE RAMP TO COMPLETE WORK TO ALLOW AN ADEQUATE MER WORK SHOULD BE EXPEDITED TO AVOID THE STOP AND/OR Y	LACE OF BE USED TO CLOSING GE DISTANCE.					
CAL		DATE:	4		MAINTAINING TRAFFIC TYPICAL		DATE:
ES	TRAFFIC TYPICALS NOTE SHEET	SHEET:	Michigan Department of Transportation	NOT TO SCALE	102-GEN-NOTES	TRAFFIC TYPICALS NOTE SHEET	SHEET:
		1 0F 2	FILE: 102-GEN-NOTES.dgn			<u>l</u>	2 OF 2

GENERAL NOTES:

TAPER LENGTH

L - MINIMUM

1/2 L - MINIMUM

1/3 L - MINIMUM

100' - MAXIMUM

100' (PER LANE)

TANGENT

50 FEET

50 FEET

TYPES OF TAPERS

UPSTREAM TAPERS

SHIFTING TAPER

MAXIMUM SPACING FOR CHANNELIZING DEVICES

SIGN OUTLINE KEY

2 x SPEED LIMIT

100 FEET

MAINTAINING TRAFFIC TYPICAL

101-GEN-

SHOULDER TAPER

DOWNSTREAM TAPERS
(USE IS RECOMMENDED)

25 FEET

25 FEET

SOLID OUTLINES INDICATE A SIGN THAT

IS TO BE PLACED ON THE PROJECT

EXIT

"B", "D" AND "L" TABLES

CHANNELIZING DEVICE SPACING

SPACING-CHARTS | SIGN BORDER KEY AND ROLL-AHEAD SPACING

2 TO 1 LANE ROAD TAPER

NIGHTTIME 42" DEVICE SPACING (FT)

THE FORMULAS FOR THE MINIMUM LENGTH OF A

SHOWN IN THE ABOVE TABLES ARE AS FOLLOWS:

"L" = W X S²
WHERE POSTED SPEED PRIOR TO
THE WORK AREA IS 40 MPH OR LE

"L" = W X S WHERE POSTED SPEED PRIOR TO

S = POSTED SPEED LIMIT IN MPH PRIOR TO WORK AREA

TAPER

DASHED OUTLINES INDICATE A SIGN THAT

EXISTS ON SITE, AND NEEDS TO BE COVERED.

ı- - - - - - ¬

EXIT

|- - - - - - - -

NOT TO SCALE

L = MINIMUM LENGTH OF MERGING TAPER

W = WIDTH OF OFFSET

< 45 MPH

≥ 45 MPH

EMDOT

THE WORK AREA IS 40 MPH OR LESS

THE WORK AREA IS 45 MPH OR GREATER

DRUM AND 42" DEVICE SPACING (FT

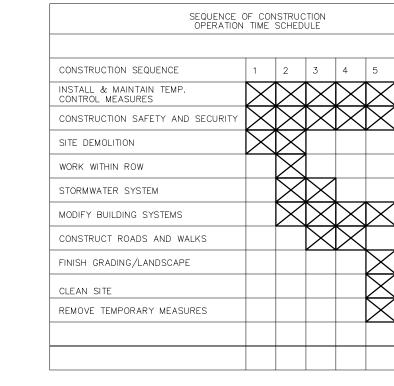
MERGING TAPER IN DERIVING THE "L" VALUES

THE CONTRACTOR SHALL VERIFY AND FAMILIARIZE THEMSELVES WITH THE EXISTING SITE CONDITIONS AND THE PROPOSED SCOPE OF WORK (INCLUDING DIMENSIONS, LAYOUT, ETC.) PRIOR TO INITIATING THE IMPROVEMENTS IDENTIFIED WITHIN THESE DOCUMENTS. SHOULD ANY DISCREPANCY BE FOUND BETWEEN THE EXISTING SITE CONDITIONS AND THE PROPOSED WORK THE CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO THE START OF

THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL SITE RELATED PERMITS. CONTRACTOR IS REQUIRED TO COMPLETE THE APPLICATION, AND SUBMIT NECESSARY DRAWINGS, FEES, ETC. TO THE APPROPRIATE JURISDICTION. CONTRACTOR SHALL PAY ALL FEES RELATED TO PERMIT(S) AND SECURE PERMIT(S) IN HIS NAME. COPIES OF ALL REQUIRED PERMITS AND APPROVALS SHALL BE KEPT ON SITE AT ALL TIMES DURING CONSTRUCTION.

THE CONTRACTOR IS REQUIRED TO PERFORM ALL WORK IN THE PUBLIC RIGHT-OF-WAY IN ACCORDANCE WITH THE APPROPRIATE GOVERNING AUTHORITY AND SHALL BE RESPONSIBLE FOR THE PROCUREMENT OF STREET OPENING

A MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) RIGHT-OF-WAY PERMIT IS REQUIRED FOR WORK WITHIN WOODWARD ROAD RIGHT-OF-WAY AS WELL AS FOR CONSTRUCTION SIGNAGE



SEVI 100DWARE

855100



PURPLE CONEFLOWER KARL FOERSTER GRASS WILTSHIRE ROAD

SERVICEBERRY

EA 13

483 SQ FT.

- 117 SQ FT.

TULIP TREE

PROPOSED 2,950 SF OF NEW GREEN ROOF AREA, 1,660 SF OF STONE/GRAVEL WALKWAY FOR MAINTENANCE OF GREEN ROOF & 100 SF
OF ROOF TOP UNITS

(REFER TO LANDSCAPE NOTES FOR GREEN ROOF PLANT MATERIAL)



10 SQ FT.

- 10 SQ FT.









BEE BALM

QTY	KEY	BOTANICAL NAME COMMON NAME	MIN. REQ'D SIZE	COMMENTS
6	CA	Calamagrostis x acutiflora Karl Foerster Grass	# 1 CONT.	PLANT 2' O.C.
13	EA	Echinacea angustifolia Purple Coneflower	# 1 CONT.	PLANT 1' - 3' O.C.
32	EP	Echinacea paradoxa Yellow Coneflower	# 1 CONT.	PLANT 1' - 3' O.C.
42	HS	Echinacea paradoxa Stella D' Oro Daylily	# 1 CONT.	PLANT 1' O.C.
8	MD	Monarda didyma Scarlet Beebalm	# 1 CONT.	PLANT 2' O.C.
10	SS	Schizachyrium scoparium Llttle Bluestem	# 1 CONT.	PLANT 2' O.C.
6	ST	Sedum ternatum Woodland Stonecrop	#1 CONT.	CENTER OF POT

PLANT MATERIAL LIST

BOTANICAL NAME

BOTANICAL NAME

BOTANICAL NAME

COMMON NAME

Buxus microphylla

Little Leaf Boxwood

Rosa x 'Radtkopink'

Double Knockout Rose

COMMON NAME

Amelanchier laevis Serviceberry, allegheny

COMMON NAME

Liriodendron tulipifera

DECIDUOUS TREES

ORNAMENTAL TREE

QTY KEY

QTY KEY

SHRUBS

QTY KEY

PERIENNIALS

PLANTING NOTES

1. ALL TREES SHALL RECEIVE A 5' DIAMETER RING OF EVENLY SPREAD HARDWOOD BARK MULCH 3" THICK.

MIN. REQ'D

COMMENTS

COMMENTS

PLANT 3' - 4' O.C.

PLANT 3' - 4' O.C.

BALLED & BURLAPPED

SIZE

Min. 2" Cal.

MIN. REQ'D

SIZE

MIN. REQ'D

SIZE

5 CONT.

5 CONT.

COMMENTS

BALLED & BURLAPPED

- 2. CONTRACTOR SHALL NOTIFY OUPS AT 811 TO LOCATE ANY UNDERGROUND UTILITY LINES OR STRUCTURES PRIOR TO STARTING CONSTRUCTION.
- 3. ALL PLANT MATERIAL SHALL COMPLY WITH ANSI Z60.1 "AMERICAN STANDARD FOR NURSERY STOCK". PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS STOCK, GROWN WITH GOOD HORTICULTURAL PRACTICE AND INSTALLED IN ACCORDANCE WITH METHODS ESTABLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
- 4. LAWN SEED SHALL BE PLACED OVER 4" TOPSOIL IN ALL PROPOSED LAWN AND RESTORATION AREAS AND MULCHED. SEED MIX SHALL BE HARDY AND OBTAINED FROM
- 5. ALL PLANTINGS AND LANDSCAPE IMPROVEMENTS SHALL BE CONSISTENT WITH THE STANDARDS OF THE CITY OF BERKLEY PLANTING MANUAL AND LANDSCAPE REGULATION GUIDELINES .

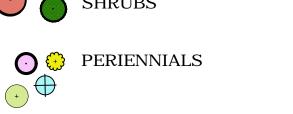
LANDSCAPE MAINTENANCE NOTES

- 1. ALL LANDSCAPE AREAS SHALL BE IRRIGATED. IRRIGATION SHALL ONLY OCCUR BETWEEN THE HOURS OF 12 AM AND 5 AM
- 2. LANDSCAPING SHALL BE KEPT IN A NEAT, ORDERLY AND HEALTHY GROWING CONDITION, FREE FROM DEBRIS AND REFUSE.
- 3. PRUNING SHALL BE MINIMAL AT THE TIME OF INSTALLATION, ONLY TO REMOVE DEAD OR DISEASED BRANCHES. SUBSEQUENT PRUNING SHALL ASSURE PROPER MATURATION OF PLANTS TO ACHIEVE THEIR APPROVED PURPOSE.
- 4. ALL DEAD, DAMAGED, OR DISEASED PLANT MATERIAL SHALL BE REMOVED IMMEDIATELY AND REPLACED WITHIN SIX MONTHS AFTER IT DIES OR IN THE NEXT PLANTING SEASON, WHICHEVER OCCURS FIRST. FOR PURPOSES OF THIS SECTION, THE PLANTING SEASON FOR DECIDUOUS PLANTS SHALL BE BETWEEN MARCH 1 AND JUNE 1 AND FROM OCTOBER 1 UNTIL THE PREPARED SOIL BECOMES FROZEN. THE PLANTING SEASON FOR EVERGREEN PLANTS SHALL BE BETWEEN MARCH 1 AND JUNE 1. PLANT MATERIAL INSTALLED TO REPLACE DEAD OR DISEASED MATERIAL SHALL BE AS CLOSE AS PRACTICAL TO THE SIZE OF THE MATERIAL IT IS INTENDED TO REPLACE. THE CITY MAY NOTIFY PROPERTY OWNERS OF THE NEED TO REPLACE DEAD, DAMAGED, OR DISEASED
- 5. THE APPROVED LANDSCAPE PLAN SHALL BE CONSIDERED A PERMANENT RECORD AND INTERGRAL PART OF THE SITE PLAN APPROVAL. UNLESS OTHERWISE APPROVED IN ACCORDANCE WITH THE AFOREMENTIONED PROCEDURES, ANY REVISIONS TO OR REMOVAL OF PLANT MATERIALS, OR NON-COMPLIANCE WITH THE MAINTENANCE REQUIREMENTS OF ZONING ORDINANCE WILL PLACE THE PARCEL IN NON-CONFORMITY WITH THE APPROVED LANDSCAPE PLAN AND BE A VIOLATION OF THE ORDINANCE.
- 6. IF PROTECTED TREES ARE DAMAGED , A FINE SHALL BE ISSUED ON AN INCH-BY-INCH BASIS AT A MONETARY RATE AS DEFINED BY THE FORESTRY DEPARTMENT.



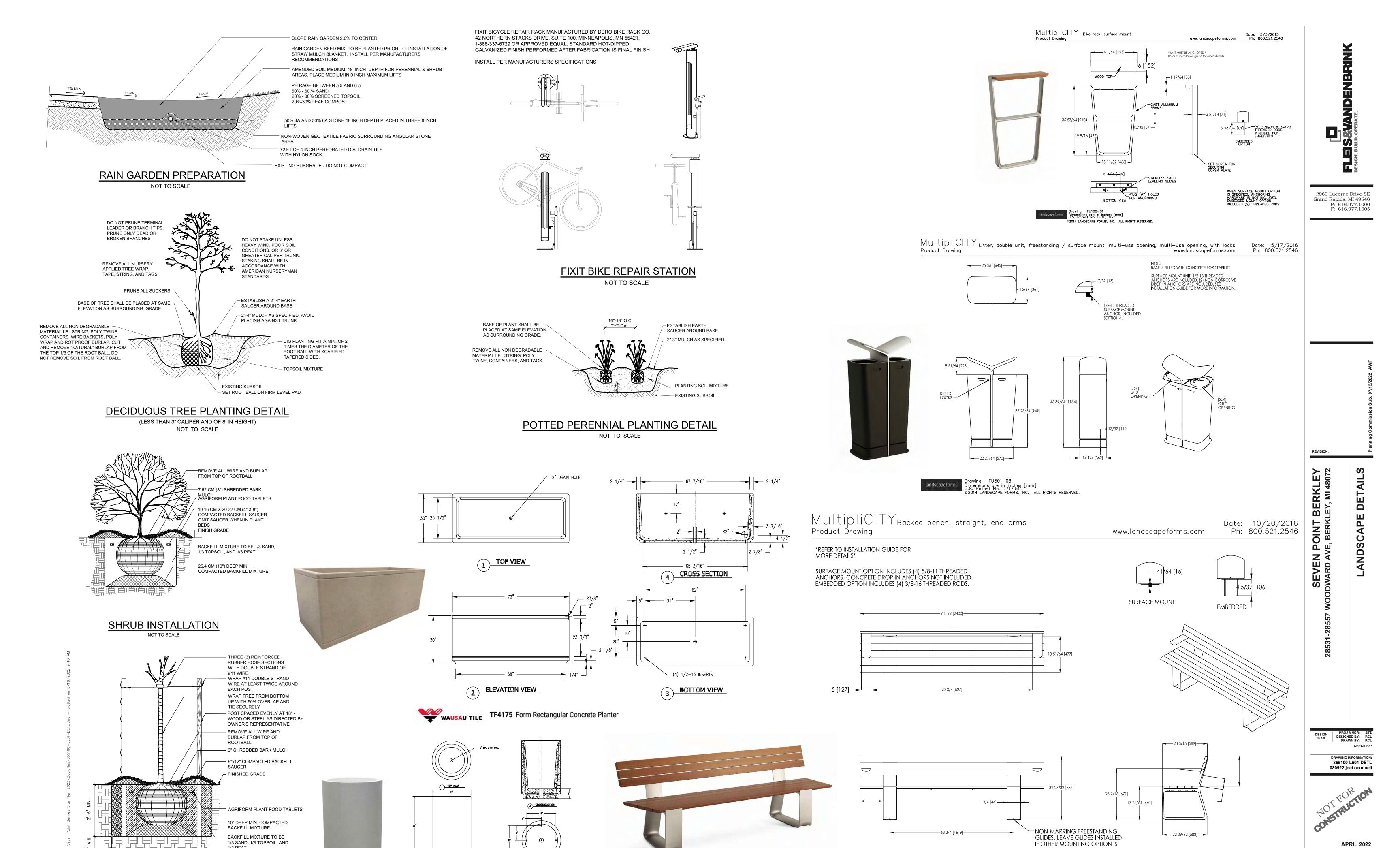








L101



2 ELEVATION VIEW

TREE PLANTING DETAIL

NOT TO SCALE

3) BOTTOM VIEW

WAUSAU TILE TF4354 Round Concrete Planter

L501

F&V PROJECT NO. 855100

SPECIFIED.

Drawing: FU301-02

Dimensions are in inches [mm] U.S. Patent No. D712,184

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APPLICATION FOR SITE PLAN REVIEW

NOTICE TO APPLICANT: Applications for Site Plan review by the Planning Commission must be submitted to the City of Berkley Building Department in *substantially complete form* at least 30 days prior to the Planning Commission's meeting at which the application will be considered. The application must be accompanied by the data specified in the Zoning Ordinance, including fully dimensioned site plans, plus the required review fees.

The Planning Commission meets the fourth Tuesday of the month at 7:00pm in the Council Chambers at the City of Berkley City Hall, 3338 Coolidge Hwy, Berkley, MI 48072.

TO BE COMPLETED B	Y APPLICANT:
I (We), the undersigned information to assist in t	, do hereby respectfully request Site Plan Review and provide the following he review:
Project Name:	Seven Point Berkley
Applicant:	Seven Point Dispensing of Michigan, LLC
Mailing Address:	3445 Robina Avenue Berkley, MI 48072
Telephone:	
Email:	
Property Owner(s), if dif	ferent from Applicant: Greenside Trust
Mailing Address:	1359 Davis Birmingham, MI 48009
Telephone:	
Email:	
Applicant's Legal Interes	st in Property: Applicant is an ancillary beneficiary of the Greenside Trust
LOCATION OF PROPE	RTY:
Street Address:	28531-28557 Woodward Avenue
Nearest Cross Streets:	Wiltshire Road and Woodward Avenue
Sidwell Number(s):	2517257025 and 2517257008

Updated 02.21.2021 1 | ₽ a g ∈

PROPERTY DESCRIPTION: Lots 356 to 358 Vinsetta Park Subdivision Provide lot numbers and subdivision: 0.12 Acres 5,314 Square Feet Property Size (Square Feet): (Acres): **EXISTING ZONING DISTRICT** (please check): □ R-1A □ Local Business □ Coolidge □ Downtown □ R-1B □ Office □ R-1C ☐ Community Centerpiece □ Industrial ✓ Woodward □ R-1D □ Cemetery □ Eleven Mile □ RM □ Parking □ RMH ☐ Twelve Mile 28557 Woodward Avenue is currently vacant Present Use of Property: Proposed Use of Property: Marihuana adult-use retail and medical provisioning center Is the property located within the Downtown Development Authority? ☐ Yes No PROJECT DESCRIPTION: Marihuana adult-use retail and medical provisioning center Does the proposed project / use of property require Special Land Use approval? ☐ Yes No Does the proposed project require Variance(s) from the Zoning Board of Appeals? — Yes If yes, please describe Variances required:

Updated 07.01.2021 2 | ₽ a g ∈

PLEASE COMPLETE THE FOLLOWING CHART:

Type of Development	Number of Units	Gross Floor Area	Number of Parking Spaces On Site	Number of Employees on Largest Shift
Attached Residential				
Office				
Commercial	1	3,405 Square Feet	19 (including 1 barrier free)	TBD
Industrial				
Other				

ROFE	ESSIONALS WHO	PREPARED PLANS:
A.	Name:	Brian Howard/HF Architecture
	Mailing Address:	512 N. Main Street Suite 100 Royal Oak, MI 48067
	Telephone:	
	Email:	
	Design Responsi	ibility (engineer, surveyor, architect, etc.): Architect
В.	Name: Mailing Address: Telephone: Email: Design Responsi	Brian Sinnott/Fleis & Vandenbrink 2960 Lucerne Drive SE, Suite 100 Grand Rapids, MI 49546 Civil Engineer

SUBMIT THE FOLLOWING:

- 1. Fifteen (15) individually folded copies of the site plans, measuring 24" x 36", sealed by a registered architect, engineer, or surveyor.
- 2. A pdf file of the site plans, submitted to the Community Development Director.
- 3. Proof of property ownership (title insurance policy or registered deed with County stamp).
- 4. Review comments or approval received from County, State or Federal agencies that have jurisdiction over the project, including, but not limited to:

Road Commission for Oakland County	Oakland County Health Division
MI Dept. of Transportation	MI Dept. of Environment, Great Lakes & Energy

Updated 07.01.2021 3 | ₽ a g e

PLEASE NOTE: The applicant, or a designated representative, MUST BE PRESENT at all scheduled meetings, or the Site Plan may be tabled due to lack of representation.

Failure to provide true and accurate information on this application shall provide sufficient grounds to deny approval of a Site Plan Application or to revoke any permits granted subsequent to the site plan approval.

We encourage applicants to make a presentation of the proposed project to the Planning Commission and City Council, as appropriate. To assist in this effort, we have available for your use at meetings a projector, laptop computer and screen. This will allow the Planning Commission and audience to be fully engaged so they can give your project the attention it deserves. Planning Commission meetings are recorded and televised.

PROPERTY OWNER'S APPROVAL: (Initial each line) _____ I hereby authorize the employees and representatives of the City of Berkley to enter upon and conduct an inspection and investigation of the above-referenced property.

APPLICANT'S ENDORSEMENT: (Initial each line)

All information contained therein is true and accurate to the best of my knowledge.

L acknowledge that the Planning Commission will not review my application unless all information in this application and the Zoning Ordinance has been submitted. I further acknowledge that the City and its employees shall not be held liable for any claims that may arise as a result of acceptance, processing or approval of this site plan application.

I hereby acknowledge that if engineering or other reviews are required, additional fees must be submitted. Should the review fees be greater than the required minimum, sufficient additional charges will be imposed to satisfy the additional review fees. All fee obligations must be satisfied prior to permit approval.

If an application is withdrawn more than three (3) weeks prior to the meeting date, 90% of the fee will be refunded. If the application is withdrawn less than three (3) weeks prior to the meeting, no refund will be given.

Updated 07.01.2021 4 | ₽ a g é

John Ai	7/18/2022
Signature of Applicant	Date
Gabe Rubin, authorized representative of Seven Point Dispensing of Mic	chigan, LLC
Applicant Name (Print)	
Signature of Applicant	Date
Applicant Name (Print)	
dulh	7-18-22
Signature of Property Owner Authorizing this Application	Date
Dan Winter, authorized representative of the Greenside Trust	
Property Owner Name (Print)	

OFFICE USE ONLY					
Received _	18/22 Receipt #	Meeting Date	Case # PSP 15-02		
Fees:	Site Plan Review \$600	Façade Change: \$200	Revision: \$300		
	Extension \$200	Engineering: Multi-family \$ Commercial 5			
	Escrow (New construction) \$1				



Transmittal Memo

To: Kristen Kapelanski, Community Development Director (via email)

Cc: Kim Anderson, Community Development Department (via email)

Ric Chalmers, Assistant DPW Director (via email)

Eddle Zmich, HRC (via email)

From: Shawn Young, DPW Director

Date: August 24th, 2022

Subject: Review #2 Seven Points Provisioning Center 28557 Woodward Ave

We have reviewed the site plans provided by the Community Development Department. Please find below our initial comments:

- The site plans will be reviewed by the City's engineering consultant, Hubbell, Roth & Clark (HRC). Among other things, HRC will review the storm water detention calculations and site grading.
- A traffic control plan shall be added to the plan set to account for the proposed Right of Way impacts of both Wiltshire RD and Woodward Ave.
- Woodward Ave is under the jurisdiction of the Michigan Department of Transportation.
 The applicant shall share feedback received and/or an approved MDOT plan prior to the start of construction.

A response letter from the applicant to these comments would be helpful in subsequent reviews.

Feel free to call with any questions or concerns. Thank you.

555 Hulet Drive Bloomfield Hills, MI 48302-0360

HRC Job No. 20220405.02

248-454-6300

www.hrcengr.com



August 24, 2022

City of Berkley 3338 Coolidge Highway Berkley, Michigan 48072

Attention: Ms. Kristen Kapelanski, Community Development Director

Mr. Matthew Baumgarten, City Manager

Re: Seven Points Provisioning Center

28557 Woodward Avenue

Engineering Site Plan – Review No. 2

City of Berkley, MI

Dear Ms. Kapelanski and Mr. Baumgarten:

As Consulting Engineers for the City of Berkley, and in accordance with your request, we have completed the Engineering Site Plan review of the proposed subject development located at 28557 Woodward Avenue for compliance with the City of Berkley's engineering and site plan requirements. The plans were prepared by Fleis & Vandenbrink of Grand Rapids, Michigan with an issue date of August 9, 2022. The proposed project scope includes the renovation of the existing building and replacement of the existing parking lot and other site features. We hereby offer the following comments:

General:

- 1. A Michigan Department of Transportation (MDOT) Right-of-Way permit will be required for proposed work within the Woodward Road right-of-way as well as for construction signage. **This item is still applicable.**
- 2. A traffic control plan and sequence of construction must be added to the plans, including an estimated duration for any lane closures that may be required. Maintenance of traffic plans and details, and an estimated sequence of construction with closure durations have been added. The traffic control plan must ultimately be approved as part of the MDOT right-of-way permit. This item has been satisfactorily addressed.
- 3. All existing utilities and service leads must be shown on the plans. Service lead locations are shown on the plans with notes to protect/reuse. This item has been satisfactorily addressed.
- 4. All proposed utilities and service leads, as well as proposed connections and/or methods of abandonment of existing leads, must be shown on the plans. If any leads are proposed to be reused, the applicant must have the lead inspected by a licensed contractor/plumber and the video footage submitted to the City verifying the lead is suitable for re-use prior to construction. This note has been added to the plans. This item has been satisfactorily addressed.

Storm Drainage and Detention/Sanitary Sewer:

1. Stormwater runoff calculations have been provided using a 100-year, 24-hour storm event, however, only the area of the proposed parking lot has been included in the calculations. Detention must be provided for the entire improved site as per City ordinances. Stormwater calculations have been updated to include the drainage area from the full site. This item has been satisfactorily addressed.



- 2. The stormwater calculations show that 1,925 cubic feet of storage is required, however, the StormTech Chamber System Details show the system to only provide 1,104 cubic feet of storage, including the stone. Storage must be provided on the proposed site to account for the full value required by Oakland County standards. The required storage volume must be revised as per the previous comment as well to include the full site area. The chamber storage volumes have been increased and the two chambers will provide adequate storage to detain the stormwater on site, however, the stormwater collected from the building area of the site does not reach the chambers to be detained and is instead proposed to flow into the rain garden and directly into the restricted outlet into the City sewer. To properly utilize the storage and meet the County requirements, the stormwater collected from the roof should be directed into the proposed underground system where it can be detained.
- 3. The StormTech Chamber System Detail shows a minimum cover of 48 inches from the invert of the chamber to the **bottom** of the proposed pavement. The grading plan shows only 48 inches of total cover from the invert to the **top** of proposed pavement, which does not meet this requirement. The cover must be revised to meet manufacturer specifications. **The plans have been revised to use smaller chambers and the grading plan shows that adequate cover is proposed above the storm system. This item has been satisfactorily addressed.**
- 4. The developer will be required to prepare and enter into a perpetuity maintenance agreement with the City for the proposed private stormwater systems. The Applicant must contact the City DPW regarding this item prior to commencing construction. This item is still applicable. In addition to the maintenance agreement, the City will require that the constructed storm detention system be certified by way of a signed/sealed letter by the Applicant's engineer upon completion.
- 5. Note that downspouts are not permitted to discharge directly into the combined sewer system and must be directed onto grass, landscape or other green space area. They may also be directed through the proposed stormwater detention system and restricted-outlet structure. The location of the proposed downspouts and the above note must be shown on the plans. The downspouts have been shown on the plans and will be directed into the rain garden. As stated above, however, these should be directed into the underground storage below the parking lot.

Recommendation:

Based on our aforementioned comments, we recommend approval of the proposed Site Plan subject to the applicant revising the stormwater connection from the downspouts, and obtaining and submitting copies of any required permits as well as the stormwater maintenance agreement.

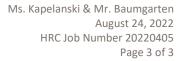
If you have any questions or require any additional information, please contact the undersigned.

Very truly yours,

HUBBELL, ROTH & CLARK, INC.

Edward D. Zmich Project Manager

Mitch Stark Review Engineer





EDZ/MAS/mas

pc: City of Berkley; Shawn Young, Kim Anderson

HRC; R. Alix, File

Fleis & Vandenbrink; Brian Sinnott



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

Date: August 1, 2022

August 18, 2022

Site Plan Review For City of Berkley, Michigan

Applicant: Gabe Rubin

Project Name: Seven Point Dispensing of Michigan

Plan Date: August 1, 2022

Location: 28557-28531 Woodward Avenue

Zoning: Woodward District and Parking District

Action Requested: Site Plan Approval

SITE DESCRIPTION

The applicant proposes to remodel the northern portion of the existing +/-7,000 sq. ft. building at 28557 Woodward for a marihuana provisioning center. The other tenant in the building, State Farm, will remain in the southern portion of the building. The applicant proposes façade changes to both the new suite and State Farm to make the façades consistent. A parking lot is located on a separate parcel just west of the building.

Other than façade improvements there are no proposed changes or enlargement to the existing building.

Site improvements include:

- Plaza with permeable pavers
- Benches and planters along Woodward
- Benches along Wiltshire
- Permeable pavers in parking lot
- Landscaped rain garden
- Site landscaping improvements
- Corner mural wall
- Bike racks and repair station
- Quality architecture improvements
- Green stormwater management in the form of a bioswale
- Roof amenities:
 - Stormwater runoff water collection
 - Green roof

The properties are zoned Woodward District and Parking District. Marijuana provisioning centers are permitted uses in the Woodward District but must meet the zoning requirements in Section 138-528 Marihuana Business Regulations.

Site Location:



Proposed Use of Subject Parcel:

2,384 usable sq. ft. building for marihuana provisioning use and 914 usable sq. ft. for State Farm office.

Surrounding Property Details:

Direction	Zoning	Use
North	Woodward District	Bank
South	Woodward District	Commercial
East	Woodward Avenue	Commercial
West	Multiple Family/ Single Family District	Parking / Single Family

Items to be addressed: None

NATURAL FEATURES

The site has been graded for a building and parking lot. There are no existing natural resources.

BUILDING ARRANGEMENT AND SITE DESIGN

The site and building layout will remain in its current configuration. The square foot arrangement of the building is as follows:

Suite	Tenant/Use	Useable Square Footage
Suite 1	Seven Points	2,384
Suite 2	State Farm	914
Total		3,298

Items to be addressed: None

AREA, WIDTH, HEIGHT, SETBACKS

The applicant does not propose any changes to the existing building.

Items to be addressed: None

PARKING

The applicant has provided a parking table on Sheet C102. This is a multiple tenant building. The parking required is a total of all uses combined in the building:

	Required	Provided
Seven Points (Retail) 1 space per 225 usable square feet	2,384 usable sq. ft. / 225 = 11 spaces	16 spaces
Insurance Office 1 per 300 usable	914 usable sq. ft. / 300 = 3	
square feet	spaces	
Barrier Free	1	1
Total	14 spaces	16 spaces

The applicant has provided sufficient parking.

Items to be Addressed: None

SITE ACCESS AND CIRCULATION

Site access and circulation remain as currently situated. There is access and three parking spaces off Woodward and access to the parking lot is via the alley.

Items to be Addressed: None

LANDSCAPING

A landscaping plan has been provided on sheet L101. The applicant proposes robust landscaping improvements including:

- Green roof
- Parking lot landscaping
- Street trees
- Planter boxes along Woodward
- Rain garden along Wiltshire



As set forth in Section 130-37, when the development of any property requiring site plan approval occurs, the City Planning Commission shall review landscaping plans and may require additional landscaping to be planted on or near the site consistent with the elements of the adopted city master plan.

<u>Trash Enclosure:</u>

The applicant proposes a dumpster in the parking. The dumpster will be screened with a wood gate and masonry walls.

Items to be Addressed: Planning Commission to review landscaping

SITE AMENITIES

The applicant is proposing a number of site amenities including:

- Plaza with permeable pavers
- Benches and planters along Woodward
- Benches along Wiltshire
- Permeable pavers in parking lot
- Landscaped rain garden
- Site landscaping improvements
- Bike racks and repair station
- Corner mural wall
- Quality architecture improvements
- Green stormwater management in the form of a bioswale
- Roof amenities:
 - Stormwater runoff water collection
 - Green roof

Items to be Addressed: None

PHOTOMETRICS

The applicant is proposing three (3) pole mounted lights in the parking lot and three (3) building mounted lights. Due to the proximity of the adjacent single-family home, the pole height was reduced 12-feet.

Items to be Addressed: None

EXTERIOR APPLIANCES

The applicant proposes a parapet to screen the roof top equipment. Applicant has note on plans that parapet is high enough to screen exterior appliances (air conditioners, generators, etc.) to ensure compliance with Sec. 138-73.

Items to be Addressed: None

FLOOR PLAN AND ELEVATIONS

Floor plans and elevations have been provided. The applicant is making significant elevation improvements to the existing building including "eco-stucco," storefront glass, steel canopy, and bamboo siding. The primary color is black and natural wood.

Items to be Addressed: None

MARIHUANA BUSINESS REGULATIONS

Section 138-528 Marihuana Business Regulations, the site plan shall be reviewed and approved by the Planning Commission upon finding that:

- a) A marihuana business must front on a major thoroughfare with the primary ingress/egress onto a major thoroughfare.
 - <u>CWA Response</u>: The marihuana business fronts on Woodward, with ingress/egress onto a major throughfare.
- b) The marihuana business must have all applicable state and local licenses and approvals to operate.
 - <u>CWA Response</u>: The marihuana business will be required to obtain all applicable state license prior to any final approvals.
- c) The property where the marihuana business will be located must be entirely within the boundaries of the city and must not be within 1,000 feet of a pre-existing public or private school providing education in kindergarten or any of grades 1 through 12.
 - <u>CWA Response</u>: The marihuana business will not be located with 1,000 feet of any pre-existing public or private school.
- d) Notwithstanding any other provision in the zoning ordinance, a marihuana business must operate within a fully enclosed building.

<u>CWA Response</u>: The marihuana business will operation within a fully enclosed building.

- e) Pursuant to Article XV of Chapter 30 of the Berkley City Code, all marihuana business license approvals are subject to the following:
 - i. Public notice requirements as outlined in Section 30-806; and
 - ii. Site plan approval from the planning commission must be obtained prior to receiving license approval from the city council. Failure to do so will result in license denial as outlined in Section 30-813.

<u>CWA Response</u>: 1). Public notice requirements are expected to be met; and 2). The applicant is seeking site plan approval from the Planning Commission. If granted site plan approval, the applicant would then seek license approval from the City Council.

Items to be Addressed: None

RECOMMENDATION

Overall, the applicant is making a significant investment into the site as noted in our report. We recommend preliminary site plan approval.

Sincerely,

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

CARLISLE/WORTMAN ASSOC., INC. Megan Masson-Minock, AICP

Senior Associate

Carlisle Wortman Associates, Inc.

October 3, 2022 City Council Meeting

Moved by Councilmember	and seconded by Councilmember
to	approve marihuana adult use retailer business license #PMA20-0003
for Operation Grow, LLC/dba	Butter, at 2222 W. Eleven Mile Road. The applicant was previously
approved on July 18, 2022 fo	r a medical marihuana provisioning center business license at the
same location.	
Ayes:	
Nays:	
Motion:	



MEMORANDUM

To: Mayor Terbrack and City Council

From: Matthew Baumgarten, City Manager

Date: June 20, 2022

Subject: Adult Use Approval of Butter for Marijuana Business License

Operation Grow dba Butter (Application# PMA20-0003) has successfully completed the City's process for obtaining a marijuana business license as outline by Article XV. - Marihuana Businesses. Their license was approved by City Council at the July 18, 2022 regular meeting. This approval allowed Butter to operate as a medical marijuana dispensary while they work through the state's process for qualification as an adult use retailer.

In June of 2020, when Butter was filling its initial application with Berkley for a Marijuana business license, Michigan law only allowed those entities operating an existing Medical Marihuana facility to receive Adult Use licenses. In 2019, when our ordinance was written, the City anticipated requests such as these and included Sec. 30-808 which provides for Marihuana facility co-location and stacking. In short, stacking allows a single operator to offer customers both medical and adult-use marijuana provided approvals obtained from both the State of Michigan and the City of Berkley. The text of Sec. 30-808 reads as such, "Separate marihuana business uses, under common ownership, and with proper licensing issued by LARA for each use, shall be permitted to operate at the same location with license approval from city. Co-locating establishments must have license approval for each marihuana business type and use."

Since their initial application to the City of Berkley, Butter has now obtained its prequalification for Adult Use from the State of Michigan and has met Berkley's application requirements to request adult use retail license at the Property. Co-locating and stacking will have no effect on site plan approval and can appear directly before the City Council for consideration and approval.

I am recommending that City Council consider approval of an adult-use license for Operation Grow dba Butter operating at 2222 Eleven Mile.

Thank you for your time and consideration on this matter,

Matthew Baumgarten Berkley City Manager

October 3, 2022 City Council Meeting

Mayod by Councilmomber	and seconded by Councilmember	
Moved by Councilmember	and seconded by Councilmember	
to authorize Hubbel	I, Roth & Clark (HRC) for professional design and	
engineering services related to the Wiltshire Ro	pad Improvement and Water Main Replacement	
Project at a cost not to exceed \$176,621.02. Funding has been allocated in the Road Millage and		
Water Service accounts 313-938-821-000 and 592-536-821-000.		
Ayes:		
Nays:		
Motion:		



Transmittal Memo

To: Matthew Baumgarten, City Manager

Cc: Mark Pollock, Finance Director

From: Shawn Young, DPW Director

Date: September 27th, 2022

Subject: Wiltshire Road and Water Main Improvement Project (Woodward to Coolidge) Approval of Design Services

Since the passing of the Berkley Infrastructure Millage in 2018 the City of Berkley has been generating approximately \$1 million each year for infrastructure improvements. During the first two years (2020 & 2021) we chose to use this revenue on Citywide concrete road repairs. This citywide program addressed roughly 200 locations throughout the city. Year three (2022) we chose to combine both mileage revenue along with Water funds to complete a ½ mile of road and water main replacement on Kenmore/Cornwall.

For 2023 we are looking to once again combine Millage Revenue and Water Funds to potentially address the needs of Wiltshire Road from Coolidge to Woodward.

This project would have two very distinct scopes that could be awarded independently based on cost;

- 1. Woodward to Mortenson: Complete Road and Water Main/service Removal and Replacement
- 2. Mortenson to Coolidge: Mill and overlay of the existing pavement along with minor curb and driveway replacement, as required. Existing water main and services to remain.

Selection of this street was a combined effort considering road Condition (Paser Ranking), existing water main condition including water main break history, and third party utilizes. Depending on the section Wiltshire Road is rated both a 2 and a 3 on the Paser ranking scale with five recent Water Main Breaks between Mortenson and Woodward. The section of Wiltshire from Coolidge to Mortenson does not have any recent Water Main Breaks noted.

Please find the attached Engineering proposal for this project. Professional services included with this proposal include several items such as communication and engagement, pavement cores and soil borings, topographic survey, coordination with third-party utilities, preparation of construction plans/specifications, and permitting/public bidding.

Contingent upon approval final plans would be complete in January 2023 with public bidding to follow up in February 2023. Final Construction would tentatively be scheduled to start in the spring of 2023. We recommend approval of the attached design proposal in the amount not to exceed \$176,621.02. Design funds have been allocated in the current fiscal year under account 313-938-821-000 (Infrastructure Millage-Engineering) and 592-536-821-000 (Water and Sewer Service-Engineering)

Please feel free to contact me with any questions or concerns.



MAILING: PO Box 824 Bloomfield Hills, MI 48303-0824

SHIPPING: 555 Hulet Drive Bloomfield Hills, MI 48302-0360

PHONE: 248-454-6300 WEBSITE: hrcengr.com

HRC Job No. 20220797

September 14, 2022

City of Berkley 3338 Coolidge Highway Berkley, Michigan 48072

Attn: Mr. Matthew Baumgarten, City Manager

Mr. Shawn Young, Director of Public Works

Re: Proposal for **Design Engineering Services**

Wilshire Road Water Main Replacement and Road Reconstruction

(Woodward to Coolidge Highway)

Dear Mr. Baumgarten and Mr. Young:

Thank you for the opportunity to allow Hubbell, Roth & Clark, Inc. (HRC) to submit this proposal for professional design engineering services. We understand that the City wishes to move forward with the next phase of the Infrastructure Millage program. For the 2023 construction year, the City desires to complete a road reconstruction and water main replacement project similar in size and scope to the 2017 Harvard and 2022 Kenmore/Cornwall Reconstruction projects.

Berkley Public Works and HRC staff(s) have been closely working together to identify candidates for the next significant road/watermain reconstruction project. In August 2022, HRC completed a PASER roadway rating survey for all City owned roadways. Utilizing this PASER Rating data along with watermain age/break information, we developed the attached Figure A which identifies 5 of the highest priority roadway sections. Each segment is approximately 0.5 mile in length (similar to the Harvard & Kenmore/Cornwall projects). Additionally, City staff worked with Consumers Energy to gather information about future gas main replacement projects.

The section of Wiltshire Road between Woodward and Coolidge roads has been identified, by the above factors, as the highest priority candidate. It should be noted that this section had a high amount of water main breaks over the last 5 years and has a 2022 PASER rating of 2. The PASER system rates the condition of a roadway from 1 (failed) to 10 (excellent). This section of Coolidge is regularly used as an east-west thoroughfare connecting Woodward and Coolidge.

The Wilshire Road Reconstruction Project will include two (2) types of project scopes:

- Woodward to Mortenson: Removal and replacement of the entire deteriorated asphalt over concrete pavement with a robust asphalt pavement section and the complete replacement of the aged water main.
- 2. Mortenson to Coolidge: Mill and overlay of the existing pavement (depth to be determined following pavement core extraction) and variable amount of curb and driveway replacement, as required.

Scope of Proposed Construction:

Due to budgetary constraints, this project consists of two (2) types of project scopes:

1. <u>Woodward to Mortenson:</u> The proposed scope of work entails the complete removal and replacement of existing pavement, curbs, driveway approaches and sidewalks and replacement of the existing water



main. All Right-of-Way trees will be evaluated by the City's arborist, and any trees with health concerns or conflicts with the proposed construction will be removed and replaced with new trees following construction. Improvements include new concrete curbs, aggregate base, HMA pavement, storm drainage cover adjustments, concrete driveway approaches, concrete sidewalks, ADA ramp and new landscaping. The existing water main will be abandoned in place and new 8" water main will be installed along with new public water services and stop boxes. Existing water services and hydrants will be connected to the new 8" water main. Any private lead water service lines that are encountered will be replaced. The Wiltshire corridor will be investigated for the possibility of incorporating a green infrastructure feature. Additionally, HRC will evaluate the possibility of decreasing the width of the Roadway. The approximate length of this portion of the project is 1,800 lft.

2. Mortenson to Coolidge: The proposed scope of work entails the removal of a minimum of 2" of asphalt pavement by machine milling and replacement of a minimum of 2" of asphalt pavement. The proposed depth of milling/scope of pavement rehabilitation will be finalized once the pavement cores are obtained and analyzed during the design phase. This method of reconstruction is commonly called a "mill and fill" project. We understand the City would like to establish more reveal on the existing curbs and thus are recommending either a variable/profile mill and overlay or a deep mill and thin overlay (i.e., 4" mill and 2" overlay, etc.). Repairs to driveway approaches will be completed as necessary to provide for appropriate drainage. The ADA sidewalk ramps at Henley and Berkley will be reconstructed to meet current standards. The approximate length of this portion of the project is 2,300 lft.

Preliminary cost estimates for both project scopes are attached to this Proposal letter.

Scope of Design Engineering Services:

- 1. Notify/coordinate this project with Utility Agencies to assist in avoiding future conflicts.
- Pavement and sub-base investigation will be completed utilizing pavement cores and hand augers. This will help determine the existing pavement cross section and to evaluate the general condition of the pavement and subbase. HRC will provide the City a written report with findings and recommendations.
- 3. Complete a topographic survey of the proposed section of Wiltshire will be completed to collect field data on the existing road, utilities, and topographic information necessary to prepare construction drawings. City DPW staff will locate and mark stop boxes prior to the topo survey.
- 4. Assist City staff with the planned public engagement effort, including flyer creation and distribution and attendance two (2) on-site meetings with residents, etc.
 - a. HRC suggests conducting the initial public engagement event in late October 2022 prior to the completion of the 60% design plans. This early engagement will allow residents to express their thoughts prior to the final design being completed.
- 5. Prepare preliminary Construction Documents and Cost Estimates at the 60%, 90% and Final completion levels and provide them to the City for review.
- 6. Conduct Design Coordination Meetings at the beginning of the project and at the 60% and 90% Construction Document Completion Stages.



- 7. Prepare permit applications for EGLE Water Supply (Act 399), Oakland County Soil Erosion Control, Drain and Tap Permits, RCOC ROW and Michigan Department of Transportation (MDOT) permits (as required).
- 8. HRC will prepare and provide Final Plans, Specifications, Engineer's Estimate and Bid Documents and assist with advertising for bidding.
- 9. HRC will assist in the bidding process, make recommendation of award and prepare the Contract Documents for execution by the selected Contractor.

Schedule:

September 19, 2022	City Council Authorizes HRC to proceed with project
Mid-October 2022	Complete topographic survey and soils investigation
Late-October 2022	Initial Public Engagement Meeting
Late-November 2022	60% Design Review Meeting
Mid-November 2022	Second Public Engagement Meeting
Late-December 2022	90% Design Review Meeting
Early-January 2022	Final Review Meeting
Early -February 2023	Final Bid Documents Delivered
February 2023	Project Let for Bidding
Late-March 2023	Award of Project to Lowest Responsible Bidder

Clarifications:

- 1. Construction Engineering services are not included in this proposal and will be outlined after the bid opening. HRC will provide an additional proposal to include construction engineering, construction administration, survey layout, materials testing, progress meetings, record drawing preparation, and full-time construction observation.
- 2. Grading easement acquisition services are not included in this proposal but can be provided on a time and material basis if needed.

Design Engineering Fees (See detailed breakdown of costs attached):

Task 1 – Pavement Cores, Soil Borings and Subgrade Investigation	\$ 9,326.98
Task 2 – Topographic Survey	\$ 20,797.64
Task 3 – Completion of Design and Bid Documents	\$ 109,463.40
Task 4 – Public Engagement	\$ 12,113.88
Task 5 – Bidding Assistance	\$ 2,806.04
Task 6 – Project Management and Meetings	\$ 22,113.08

Total Not-to-Exceed Fee \$ 176,621.02

Fees will be invoiced monthly and shall be based on our cost times a 2.9 multiplier in accordance with our current agreement with the City.





If this proposal is deemed acceptable to the City, please sign and return one copy to this office. Thank you for this exciting opportunity to serve the City on this project. If you have any questions or require any additional information, please feel free to contact our office at 248-454-6300.

Very truly yours,	Accepted By:
HUBBELL, ROTH & CLARK, INC.	City of Berkley
Poland M. alin	
Roland N. Alix, P.E. Vice President	Signature:
vice Flesident	
5 du Bio	Written Name:
Edward Zmich	Title:
Project Manager	
	Date:

Cc: HRC; M. Stark, Business Office, File

Attachments: 2022 PASER Rating & WM Break Location Map

Preliminary Cost Estimate Wiltshire Road Reconstruction and Water Main Replacement

Detailed breakdown of HRC Fees

City of Berkley

2022 PASER Rating and Watermain Break Locations





555 Hulet Dr., Bloomfield Hills, MI 48302 ph. (248) 454-6300

PROJECT: Wiltshire Road Water Main and Pavement Replacement Project

ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST

	DATE:	9/14/2022
LOCATION: Wiltshire Road (Woodward to Coolidge)	PROJECT NO.	20220796
BASIS FOR ESTIMATE [X] PRELIMINARY [] FINAL	ESTIMATOR:	mas
WORK:	CHECKED BY:	edz

Project includes two (2) divisions of work on Wiltshire Road. Division I, from Woodward to Mortenson, includes complete removal and replacement of existing water main, misc. storm sewer and drainage structures, pavement, curbs, driveway approaches and sidewalks in the City right-of-way. Division II, from Mortenson to Coolidge, includes milling and placement of a new HMA surface with variable curb and driveway replacements as needed.

DIVISION I - WILTSHIRE RD	(WOODWARD TO MORTENSON)
DIVISION WILLISMINE NO	(WOOD WIND TO MORTEMOON)

Description	Quantity	Unit	Unit Price	Total Cost
1 Mobilization (Max. 5%)	1	Lsum	\$ 89,000.00	\$ 89,000.00
2 Erosion Control, Inlet Protection, Fabric Drop	16	Ea	\$ 120.00	\$ 1,920.00
3 Tree Protection Fence	1,296	Lft	\$ 4.00	\$ 5,184.00
4 Exploratory Excavation & Utility Location	1	Lsum	\$ 10,000.00	\$ 10,000.00
5 Traffic Maintenance, Incl. Flag Control	1	Lsum	\$ 40,000.00	\$ 40,000.00
6 Color Audio-Video Route Survey	1	Lsum	\$ 5,000.00	\$ 5,000.00
7 Pavt, Rem, MOD	5,360	Syd	\$ 15.00	\$ 80,400.00
8 Curb, Rem	3,510	Lft	\$ 15.00	\$ 52,650.00
9 Driveway, Rem	520	Syd	\$ 10.00	\$ 5,200.00
10 Sidewalk, Rem	1,760	Syd	\$ 10.00	\$ 17,600.00
11 Dr Structure, Rem	16	Ea	\$ 800.00	\$ 12,800.00
12 Storm Sewer, Rem	170	Lft	\$ 30.00	\$ 5,100.00
13 Tree, Rem, 19-inch to 36-inch	5	Ea	\$ 2,500.00	\$ 12,500.00
14 Station Grading, MOD	18.2	Sta	\$ 3,000.00	\$ 54,600.00
15 Subgrade Undercutting, Type 1, MOD	540	Cyd	\$ 50.00	\$ 27,000.00
16 Maintenance Gravel, 21AA	1,200	Ton	\$ 30.00	\$ 36,000.00
17 Aggregate Base, MDOT 4G, 12-inch	3,010	Ton	\$ 35.00	\$ 105,350.00
18 Mirafi 600X Geotextile Fabric	5,360	Syd	\$ 2.00	\$ 10,720.00
19 Tensar TX160 Geogrid	5,360	Syd	\$ 6.00	\$ 32,160.00
20 Void Reducing Asphalt Membrane (Spray, J-Band Type)	1,820	Lft	\$ 5.00	\$ 9,100.00
21 2-inch MDOT 13A, MOD Mix (Wearing)	580	Ton	\$ 110.00	\$ 63,800.00
22 2.5-inch MDOT 3C, MOD Mix (Leveling/Base)	730	Ton	\$ 105.00	\$ 76,650.00
23 Concrete Pavement w/ Integral Curb & Gutter, 8-inch (incl. agg base)	350	Syd	\$ 95.00	\$ 33,250.00
24 Driveway, Nonreinf Conc, 6-inch (incl. sand base)	520	Syd	\$ 55.00	\$ 28,600.00
25 Curb, Conc, MDOT Det F4	3,510	Lft	\$ 25.00	\$ 87,750.00
26 Sidewalk, Conc, 4-inch, Special (incl. sand base)	14,800	Sft	\$ 7.00	\$ 103,600.00
27 Sidewalk, Conc, 6-inch, Special (incl. sand base)	875	Sft	\$ 8.00	\$ 7,000.00
28 Detectable Warning Surface (5-foot x 2-foot)	14	Ea	\$ 400.00	\$ 5,600.00
29 Underdrain, Subgrade, 6-inch, Special	3,510	Lft	\$ 18.00	\$ 63,180.00
30 12-inch C76 CL-IV Sewer, Tr. Det "B"	170	Lft	\$ 100.00	\$ 17,000.00
31 4-foot Diameter Manhole	5	Ea	\$ 3,500.00	\$ 17,500.00
32 2-foot Diameter Catch Basin	11	Ea	\$ 2,500.00	\$ 27,500.00

33 Drainage Str	ucture Tap, 12-inch	6	Ea	\$ 750.00	\$	4,500.00
34 Dr Structure	Frame & Cover, EJ 1040	5	Ea	\$ 800.00	\$	4,000.00
35 Dr Structure	Frame & Cover, EJ 5000	11	Ea	\$ 800.00	\$	8,800.00
36 Dr Structure	Cover, Adjust	20	Ea	\$ 600.00	\$	12,000.00
37 Sanitary Sew	ver Lead Repair (if needed)	8	Ea	\$ 750.00	\$	6,000.00
38 Hydrant Ass	embly, Rem	3	Ea	\$ 650.00	\$	1,950.00
39 Gate Valve a	nd Well, Rem	5	Ea	\$ 750.00	\$	3,750.00
40 Water Main,	6-inch, Rem	50	Lft	\$ 30.00	\$	1,500.00
41 Abandon 6-i	nch Water Main in Place & Grout	1,400	Lft	\$ 4.00	\$	5,600.00
42 Abandon 12-	inch Water Main in Place & Grout	400	Lft	\$ 7.00	\$	2,800.00
43 Water Main,	6-inch, Cut & Plug	6	Ea	\$ 1,000.00	\$	6,000.00
44 Water Main,	12-inch, Cut & Plug	4	Ea	\$ 2,000.00	\$	8,000.00
45 Water Main	Break Repair (12-inch & Less) (if needed)	1	Ea	\$ 3,000.00	\$	3,000.00
46 Water Main,	8-inch Dia., CL 54 DI, Open Cut	1,800	Lft	\$ 185.00	\$	333,000.00
47 Water Main	Connection, 6-inch	1	Ea	\$ 5,000.00	\$	5,000.00
48 Water Main	Connection, 8-inch	2	Ea	\$ 5,500.00	\$	11,000.00
49 Water Main	Connection, 12-inch	1	Ea	\$ 6,500.00	\$	6,500.00
50 Gate Valve &	& Well, 8-inch	5	Ea	\$ 6,000.00	\$	30,000.00
51 Water Struct	ure Cover, EJIW No. 1040	5	Ea	\$ 750.00	\$	3,750.00
52 Short Water	Service Lead to New Main, Polyethylene, 1-inch, Open					
Cut		12	Ea	\$ 1,500.00	\$	18,000.00
_	Service Lead to New Main, Polyethylene, 1-inch,					
Directional I		15	Ea	\$ 2,000.00	\$	30,000.00
	fater Service Replacement (Private) (if needed)	5	Ea	\$ 5,000.00	\$	25,000.00
55 Water Service		27	Ea	\$ 500.00	\$	13,500.00
	embly, 5BR250 Model	4	Ea	\$ 8,500.00	\$	34,000.00
57 4-inch Topso		4,050	Syd	\$ 5.00	\$	20,250.00
58 Sodding (inc	l. 14-day watering)	4,050	Syd	\$ 10.00	\$	40,500.00
59 Permit Allow	vance	1	Dlr	\$ 7,000.00	\$	7,000.00
60 Observation	Crew Days	120	Day	\$ 760.00	\$	91,200.00
Subtotal - Division	T				•	1 880 314 00

Subtotal - Division I \$ 1,880,314.00

DIVISION II - WILTSHIRE RD (MORTENSON TO COOLIDGE)

	Description	Quantity	Unit	Unit Price			Total Cost		
1	Mobilization (Max. 5%)	1	Lsum	\$	20,000.00	\$	20,000.00		
2	Erosion Control, Inlet Protection, Fabric Drop	25	Ea	\$	120.00	\$	3,000.00		
5	Traffic Maintenance, Incl. Flag Control	1	Lsum	\$	15,000.00	\$	15,000.00		
6	Color Audio-Video Route Survey	1	Lsum	\$	5,000.00	\$	5,000.00		
7	Cold Milling, HMA Surface, 4 inch	6,140	Syd	\$	6.00	\$	36,840.00		
8	Curb, Rem	2,250	Lft	\$	15.00	\$	33,750.00		
9	Driveway, Rem	630	Syd	\$	10.00	\$	6,300.00		
10	Sidewalk, Rem	60	Syd	\$	10.00	\$	600.00		
11	Subgrade Undercutting, Type 1, MOD	930	Cyd	\$	50.00	\$	46,500.00		
12	Hand Patching, HMA	50	Ton	\$	250.00	\$	12,500.00		
13	Void Reducing Asphalt Membrane (Spray, J-Band Type)	2,247	Lft	\$	5.00	\$	11,235.00		
14	2-inch MDOT 13A, MOD Mix (Wearing)	710	Ton	\$	110.00	\$	78,100.00		
15	Driveway, Nonreinf Conc, 6-inch (incl. sand base)	630	Syd	\$	55.00	\$	34,650.00		
16	Curb, Conc, MDOT Det F4	2,250	Lft	\$	25.00	\$	56,250.00		
17	Sidewalk, Conc, 4-inch, Special (incl. sand base)	100	Sft	\$	7.00	\$	700.00		
18	Sidewalk, Conc, 6-inch, Special (incl. sand base)	400	Sft	\$	8.00	\$	3,200.00		
19	Detectable Warning Surface (5-foot x 2-foot)	8	Ea	\$	400.00	\$	3,200.00		
20	4-inch Topsoil	1,000	Syd	\$	5.00	\$	5,000.00		
21	Sodding (incl. 14-day watering)	1,000	Syd	\$	10.00	\$	10,000.00		
22	Pavt Mrkg, Ovly Cold Plastic, 24-inch Stop Bar	12	Lft	\$	15.00	\$	180.00		

23 Pavt Mrkg, Ovly Cold Plastic, 8-inch Crosswalk	56	Lft	\$ 15.00	\$ 840.00
24 Observation Crew Days	50	Day	\$ 760.00	\$ 38,000.00
Subtotal - Division II				\$ 420,845.00
Subtotal - Construction Cost				\$ 2,301,159.00
Contingencies (15%)				\$ 345,174.00
Subtotal - Construction Cost w/ Contingencies				\$ 2,646,333.00
TOTAL CONSTRUCTION BUDGET - WILTSHIRE ROAD				\$ 2,646,333.00

PROJECT FEE/MANHOUR TABLE

JOB NUMBER: 20220797

PROJECT NAME: Wilshire Road & WM Reconstruct

PRINCIPAL Roland Alix

ROJECT MANAGER Eddie Zmich

DATE September 14, 2022

								_		_	HRC	STAFF	FPOSITION	_				_			
		Р	PRINCIPAL MANAGER		ANAGER	GRADUATE ENGINEER		CON	SENIOR CONSTRUCTION SUPERVISOR		ASSOCIATE		DESIGNER		TESTING ECHNICIAN	SR. SURVEY OFFICE TECH		SURVEY PARTY CHIEF			TOTAL
		RATE	\$ 145.00	RATE	\$ 144.13	RATE	\$ 101.50	RATE	\$ 124.41	RATE	\$ 153.41	RATE	\$ 123.25	RATE	\$ 81.20	RATE	\$ 108.17	RATE	\$ 116.00	HRS	FEE
	TASK	HRS	FEE	HRS	FEE	HRS	FEE	HRS	FEE	HRS	FEE	HRS	FEE	HRS	FEE	HRS	FEE	HRS	FEE	HRS	FEE
1	Pavement Cores and Subgrade Investigation																				
•	Pavement Cores	-												32	\$2,598.40					32	\$2,598.4
	Coordination, Evaluation of Data & Report of Findings			6	\$864.78	6	\$609.00	4	\$497.64	6	\$920.46	4	\$493.00	02	ΨΣ,000.40					26	\$3,384.8
	Development of Pavement Cross Section	Ĭ		6	\$864.78	8	\$812.00	6	\$746.46	6	\$920.46	-	ψ+30.00							26	\$3,343.7
	Betalopment of Laverment Groce Gooden				ψου π σ		ψ012.00	Ť	ψ/ 10.10		ψ020.10										\$9,326.9
2	Topographic Survey																				
	Field Topographic Survey																	100	\$10,817.00	100	\$10,817.
	Office Work & Coordination			12	\$1,729.56	12	\$1,218.00			8	\$1,227.28	12	\$1,479.00			40	\$4,326.80			84	\$9,980.6
																					\$20,797.
3	Completion of Design and Bid Documents	!			****																****
	Utility Coordination	!		2	\$288.26	4	\$406.00						****							6	\$694.2
	60% Design Documents	1			\$10,377.36	-	\$20,300.00					120	\$14,790.00							392	\$45,467
	90% Design Documents	!		40	\$5,765.20	80	\$8,120.00					60	\$7,395.00							180	\$21,280.
	Final Bid Documents	1		20 40	\$2,882.60 \$5,765.20	56	\$5,684.00 \$6,090.00			_	04 007 00	40	\$4,930.00							116	\$13,496
	Specifications (Full Reconstruction Section) Bid Documents (Mill and Fill Section)	1		10	\$5,765.20	60 16	\$1,624.00			8	\$1,227.28	40	\$4,930.00							108 66	\$13,082 \$7,995.3
	<u> </u>	1		10	\$1,441.30	12	\$1,024.00			-		40	\$4,930.00							22	\$2,659.
	Specifications (Mill and Fill Section)	1		4	\$576.52		\$1,218.00			-										16	\$1,794.5
	Submit Dwgs for EGLE, OCWRC & RCOC Permits QA/QC	4	\$580.00	4	\$3/0.32	12	\$1,216.00	12	\$1,492.92	6	\$920.46									22	\$2,993.3
	QAIQC	4	\$360.00					12	\$1,492.92	0	φ920.40									22	\$109,463.
4	Public Engagement																				
	"Upcoming Construction" Flyer Creation & Distribution	n		4	\$576.52	40	\$4,060.00													44	\$4,636.
	Two (2) On-Site Meetings with Residents incl. Prep	8	\$1,160.00	16	\$2,306.08	20	\$2,030.00	8	\$995.28			8	\$986.00							60	\$7,477.3
																					\$12,113.
5	Bidding Assistance	ļ																			
	Pre-Bid Meeting	2	\$290.00	2	\$288.26	4	\$406.00													8	\$984.2
	Questions During Bidding			2	\$288.26	4	\$406.00													6	\$694.2
	Addendum			2	\$288.26	2	\$203.00													4	\$491.2
	Bid Tab & Recommendations	1	\$145.00	2	\$288.26	2	\$203.00													5	\$636.2
6	Project Management and Meetings	!																			\$2,806.0
0	Administration	16	\$2.320.00	48	\$6,918.24															64	\$9,238.2
	Engineering Award Council Meeting	2	\$2,320.00	2	\$288.26	-		-												4	\$578.2
	Initial Kickoff Meeting	4	\$580.00	4	\$576.52	4	\$406.00	4	\$497.64											16	\$2,060.
	60% & 90% Design Review Mtgs	4	\$580.00	8	\$1,153.04	8	\$812.00	Ė	,	1				1						20	\$2,545.0
	60%, 90% & Final Cost Estimates	l		20	\$2,882.60	20	\$2,030.00													40	\$4,912.6
	Finalize Docs & Prepare Bid Package	l		4	\$576.52	16	\$1,624.00													20	\$2,200.
	Construction Award Council Meeting	2	\$290.00	2	\$288.26															4	\$578.2
																					\$22,113.
			** ***		***		4=0 1=0		*****		*= ***		*******		40 500 :-		******				A1== 1 - :
	TOTAL NOT-TO-EXCEED DESIGN ENG. FEE	43	\$6,235.00	338	\$48,715.94	586	\$59,479.00	34	\$4,229.94	34	\$5,215.94	284	\$35,003.00	32	\$2,598.40	40	\$4,326.80	100	\$10,817.00	1,491	\$176,621

October 3, 2022 City Council Meeting

Moved by Councilmember	and seconded by Councilmember
to	adopt the MDOT Performance Resolution as part of an MDOT
Annual Right Of Way Permit.	
Ayes:	
Nays:	
Motion:	



Transmittal Memo

To:

Matthew Baumgarten, City Manager

Cc:

Mark Pollock, Finance Director

From:

Shawn Young, DPW Director

Date:

September 27th, 2022

Subject:

Adoption of MDOT Performance Resolution

As part of our annual MDOT Right of Way Permit we are required to adopt the MDOT Performance Resolution. The MDOT Annual Right of Way Permit allows us to perform repairs on any City of Berkley owned utility located within and MDOT owned road located in Berkley. Currently Woodward Ave is the only road that falls in this category.

A previous version of resolution was last approved in 2010.

Please feel free to contact me with any questions or concerns.

PERFORMANCE RESOLUTION FOR MUNICIPALITIES

This Performance Resolution (Resolution) is required by the Michigan Department of Transportation for purposes of issuing to a Municipality an "Individual Permit for Use of State Highway Right of Way", and/or an "Annual Application and Permit for Miscellaneous Operations within State Highway Right of Way".

RESOLVED WHEREAS, the _	
_	(County, City, Village, Township, etc.)

hereinafter referred to as the "MUNICIPALITY," periodically applies to the Michigan Department of Transportation, hereinafter referred to as the "DEPARTMENT," for permits, referred to as "PERMIT," to construct, operate, use and/or maintain utilities or other facilities, or to conduct other activities, on, over, and under State Highway Right of Way at various locations within and adjacent to its corporate limits;

NOW THEREFORE, in consideration of the DEPARTMENT granting such PERMIT, the MUNICIPALITY agrees that:

- Each party to this Resolution shall remain responsible for any claims arising out of their own acts and/or
 omissions during the performance of this Resolution, as provided by law. This Resolution is not
 intended to increase either party's liability for, or immunity from, tort claims, nor shall it be interpreted,
 as giving either party hereto a right of indemnification, either by Agreement or at law, for claims arising
 out of the performance of this Agreement.
- 2. If any of the work performed for the MUNICIPALITY is performed by a contractor, the MUNICIPALITY shall require its contractor to hold harmless, indemnify and defend in litigation, the State of Michigan, the DEPARTMENT and their agents and employee's, against any claims for damages to public or private property and for injuries to person arising out of the performance of the work, except for claims that result from the sole negligence or willful acts of the DEPARTMENT, until the contractor achieves final acceptance of the MUNICIPALITY Failure of the MUNICIPALITY to require its contractor to indemnify the DEPARTMENT, as set forth above, shall be considered a breach of its duties to the DEPARTMENT.
- 3. Any work performed for the MUNICIPALITY by a contractor or subcontractor will be solely as a contractor for the MUNICIPALITY and not as a contractor or agent of the DEPARTMENT. The DEPARTMENT shall not be subject to any obligations or liabilities by vendors and contractors of the MUNICIPALITY, or their subcontractors or any other person not a party to the PERMIT without the DEPARTMENT'S specific prior written consent and notwithstanding the issuance of the PERMIT. Any claims by any contractor or subcontractor will be the sole responsibility of the MUNICIPALITY.
- 4. The MUNICIPALITY shall take no unlawful action or conduct, which arises either directly or indirectly out of its obligations, responsibilities, and duties under the PERMIT which results in claims being asserted against or judgment being imposed against the State of Michigan, the Michigan Transportation Commission, the DEPARTMENT, and all officers, agents and employees thereof and those contracting governmental bodies performing permit activities for the DEPARTMENT and all officers, agents, and employees thereof, pursuant to a maintenance contract. In the event that the same occurs, for the purposes of the PERMIT, it will be considered as a breach of the PERMIT thereby giving the State of Michigan, the DEPARTMENT, and/or the Michigan Transportation Commission a right to seek and obtain any necessary relief or remedy, including, but not by way of limitation, a judgment for money damages.
- The MUNICIPALITY will, by its own volition and/or request by the DEPARTMENT, promptly restore and/or correct physical or operating damages to any State Highway Right of Way resulting from the installation construction, operation and/or maintenance of the MUNICIPALITY'S facilities according to a PERMIT issued by the DEPARTMENT.

- 6. With respect to any activities authorized by a PERMIT, when the MUNICIPALITY requires insurance on its own or its contractor's behalf it shall also require that such policy include as named insured the State of Michigan, the Transportation Commission, the DEPARTMENT, and all officers, agents, and employees thereof and those governmental bodies performing permit activities for the DEPARTMENT and all officers, agents, and employees thereof, pursuant to a maintenance contract.
- 7. The incorporation by the DEPARTMENT of this *Resolution* as part of a PERMIT does not prevent the DEPARTMENT from requiring additional performance security or insurance before issuance of a PERMIT.
- 8. This Resolution shall continue in force from this date until cancelled by the MUNICIPALITY or the DEPARTMENT with no less than thirty (30) days prior written notice provided to the other party. It will not be cancelled or otherwise terminated by the MUNICIPALITY with regard to any PERMIT which has already been issued or activity which has already been undertaken.

BE IT FURTHER RESOLVED that the following position(s) are authorized to apply to the DEPARTMENT for the necessary permit to work within State Highway Right of Way on behalf of the MUNICIPALITY.

<u>Title a</u>	and/or Name:							
	CERTIFY that the foregoing is a true copy of a							
I HEREBY CE the of the	(Name of Bo	ard, etc.)						
of the	(Name of MUNICIPALITY)	of						
	(Name of MUNICIPALITY)	(County)						
at a		meeting held on theday						
of	A.D							
	Signed							
	Title							
	Print Signed Name							



GRETCHEN WHITMER GOVERNOR

STATE OF MICHIGAN DEPARTMENT OF TRANSPORTATION

OAKLAND TRANSPORTATION SERVICE CENTER

PAUL AJEGBA DIRECTOR

September 2, 2022

2023 ANNUAL PERMIT FOR WORK ON STATE TRUNKLINE RIGHT OF WAY

The MDOT Oakland TSC is now accepting 2023 Annual Permit applications. All permit applications are to be submitted via the MDOT electronic Construction Permit System (CPS). The 2023 Annual Permit will be effective January 1, 2023. Your current 2022 Annual Permit shall continue to be used for any work occurring between now and December 31, 2022.

The Performance Resolution for Governmental Agencies (Form 2207B) was revised in May 2021, therefore, if you haven't done so already, an updated Resolution will be required for 2023. The form shall include the name or title of the designated person(s) authorized to sign permits and shall be uploaded into CPS with your Annual Permit application. I have attached a copy of the form and it can also be found on the internet at www.michigan.gov/mdot.

Each time you perform work under your Annual Permit you will need to submit an electronic Advance Notice via the MDOT electronic CPS system. No work shall be performed until the Advance Notice is approved by MDOT.

An Individual Permit is required for all proposed operations in the MDOT right of way not covered under the Annual Permit.

Municipalities, when working within their municipal limits, are exempt from permit fees.

Thank you for your cooperation. If you have any additional questions, feel free to contact me at 248-895-2558 or MDOT Inspector Jesse Thomas at 248-228-6730.

Sincerely,

Stacey Gough

Oakland TSC Utility/Permit Engineer

goughs@michigan.gov

cc: File

PERFORMANCE RESOLUTION FOR MUNICIPALITIES

This Performance Resolution (Resolution) is required by the Michigan Department of Transportation for purposes of issuing to a Municipality an "Individual Permit for Use of State Highway Right of Way", and/or an "Annual Application and Permit for Miscellaneous Operations within State Highway Right of Way".

RESOLVEL) WHERE	AS,	the	9								
					(Co	unty, City, Villag	ge, Townsi	rip,	etc.)			
hereinafter	referred	to	as	the	"MUNICIPALITY,"	periodically	applies	to	the	Michigan	Department	of

hereinafter referred to as the "MUNICIPALITY," periodically applies to the Michigan Department of Transportation, hereinafter referred to as the "DEPARTMENT," for permits, referred to as "PERMIT," to construct, operate, use and/or maintain utilities or other facilities, or to conduct other activities, on, over, and under State Highway Right of Way at various locations within and adjacent to its corporate limits;

NOW THEREFORE, in consideration of the DEPARTMENT granting such PERMIT, the MUNICIPALITY agrees that:

- Each party to this Resolution shall remain responsible for any claims arising out of their own acts and/or
 omissions during the performance of this Resolution, as provided by law. This Resolution is not
 intended to increase either party's liability for, or immunity from, tort claims, nor shall it be interpreted,
 as giving either party hereto a right of indemnification, either by Agreement or at law, for claims arising
 out of the performance of this Agreement.
- 2. If any of the work performed for the MUNICIPALITY is performed by a contractor, the MUNICIPALITY shall require its contractor to hold harmless, indemnify and defend in litigation, the State of Michigan, the DEPARTMENT and their agents and employee's, against any claims for damages to public or private property and for injuries to person arising out of the performance of the work, except for claims that result from the sole negligence or willful acts of the DEPARTMENT, until the contractor achieves final acceptance of the MUNICIPALITY Failure of the MUNICIPALITY to require its contractor to indemnify the DEPARTMENT, as set forth above, shall be considered a breach of its duties to the DEPARTMENT.
- 3. Any work performed for the MUNICIPALITY by a contractor or subcontractor will be solely as a contractor for the MUNICIPALITY and not as a contractor or agent of the DEPARTMENT. The DEPARTMENT shall not be subject to any obligations or liabilities by vendors and contractors of the MUNICIPALITY, or their subcontractors or any other person not a party to the PERMIT without the DEPARTMENT'S specific prior written consent and notwithstanding the issuance of the PERMIT. Any claims by any contractor or subcontractor will be the sole responsibility of the MUNICIPALITY.
- 4. The MUNICIPALITY shall take no unlawful action or conduct, which arises either directly or indirectly out of its obligations, responsibilities, and duties under the PERMIT which results in claims being asserted against or judgment being imposed against the State of Michigan, the Michigan Transportation Commission, the DEPARTMENT, and all officers, agents and employees thereof and those contracting governmental bodies performing permit activities for the DEPARTMENT and all officers, agents, and employees thereof, pursuant to a maintenance contract. In the event that the same occurs, for the purposes of the PERMIT, it will be considered as a breach of the PERMIT thereby giving the State of Michigan, the DEPARTMENT, and/or the Michigan Transportation Commission a right to seek and obtain any necessary relief or remedy, including, but not by way of limitation, a judgment for money damages.
- The MUNICIPALITY will, by its own volition and/or request by the DEPARTMENT, promptly restore and/or correct physical or operating damages to any State Highway Right of Way resulting from the installation construction, operation and/or maintenance of the MUNICIPALITY'S facilities according to a PERMIT issued by the DEPARTMENT.

- 6. With respect to any activities authorized by a PERMIT, when the MUNICIPALITY requires insurance on its own or its contractor's behalf it shall also require that such policy include as named insured the State of Michigan, the Transportation Commission, the DEPARTMENT, and all officers, agents, and employees thereof and those governmental bodies performing permit activities for the DEPARTMENT and all officers, agents, and employees thereof, pursuant to a maintenance contract.
- 7. The incorporation by the DEPARTMENT of this Resolution as part of a PERMIT does not prevent the DEPARTMENT from requiring additional performance security or insurance before issuance of a PERMIT.
- 8. This Resolution shall continue in force from this date until cancelled by the MUNICIPALITY or the DEPARTMENT with no less than thirty (30) days prior written notice provided to the other party. It will not be cancelled or otherwise terminated by the MUNICIPALITY with regard to any PERMIT which has already been issued or activity which has already been undertaken.

BE IT FURTHER RESOLVED that the following position(s) are authorized to apply to the DEPARTMENT for the necessary permit to work within State Highway Right of Way on behalf of the MUNICIPALITY.

	Title and/or Name:							
			_					
I HER	REBY CERTIFY that the foregoing is a true copy of	a resolution adopted by						
the	(Name of Bo	oard etc.)	_					
of the	·							
,	(Name of MUNICIPALITY)	of(County)						
at a		meeting held on thed	ау					
of	A.D.,							
	Signed							
U 	Title							
_	Print Signed Name							

AN ORDINANCE

of the City Council of the City of Berkley, Michigan to Amend Article II of Chapter 90,
Planning Commission, of the City of Berkley Code of Ordinances to reduce the size of the
Planning Commission from 9 to 7 members

THE CITY OF BERKLEY ORDAINS:

SECTION 1: Article II of Chapter 90 of the Berkley Code of Ordinances shall be amended, as follows:

ARTICLE II. - PLANNING COMMISSION

Sec. 90-16. Creation; composition.

There shall be a city planning commission which shall consist of seven members.

Sec. 90-17. Appointment; qualifications.

The members of the planning commission shall be appointed by the mayor with the approval of the council, and one member of the planning commission may be a member of the zoning board of appeals. No person shall be eligible for appointment who is not a qualified elector of the city and a citizen of the United States. Members shall be representative of important segments of the community such as the economic, governmental, educational, and social development of the city, in accordance with the major interests as they exist in Berkley such as agriculture, natural resources, recreation, education, public health, government, transportation, industry and commerce. The membership shall also be representative of the entire territory of the City of Berkley to the extent practicable.

Sec. 90-18. Term of office.

The term of office of the members of the planning commission, subject to the provisions of this article relative to removal, shall for three years. The term of office in each instance shall begin on July 1 in each year. All members of the planning commission shall hold office until their successors are appointed.

Sec. 90-19. Compensation.

Members of the planning commission shall receive no compensation.

Sec. 90-20. Removal of members.

Members of the planning commission may be removed by the council in accordance with City Code section 2-177, and their position shall be subject to being deemed vacant due to excessive unexcused absences under City Code section 2-178 or failure to complete required training under City Code section 2-179.

Sec. 90-21. Filling of vacancies.

Vacancies occurring on the planning commission by other than through the expiration of a term shall be filled for the unexpired term by the council consistent with the provisions of section 90-17.

Sec. 90-22. Chairperson; meetings; rules; records.

The planning commission shall elect its chairperson from among the appointed members and create and fill such other of its offices as it may determine. The term of chairperson shall be one year, with eligibility for reelection. The planning commission shall hold at least one regular meeting in each month. It shall adopt by laws and rules of procedure and shall keep a record of its resolutions, transactions, findings and determinations, which record shall be a public record.

Sec. 90-23. Employees; contracts for special services; source and limit on expenditures.

The planning commission may appoint such employees as it may deem necessary for its work, whose appointment, promotion, demotion and removal shall be subject to the same provisions of law as govern other corresponding civil employees of the city. The planning commission may also contract with city planners, engineers, architects and other consultants for such services as it may require. The expenditures of the planning commission, exclusive of gifts, shall be within the amounts appropriated for the purpose by council, which shall provide the funds, equipment and accommodations necessary for the planning commission's work.

Sec. 90-24. Annual estimate of funds required.

On or before March 1 of each year, the planning commission shall transmit in duplicate to the city manager its estimate of the amount of money required for its purposes for the ensuing fiscal year.

Sec. 90-25. Annual report.

The planning commission shall, on or before August 1 of each year, make a written report to the council of the work of the planning commission during the preceding year. The report shall be certified by the planning commission and entered of record by the city clerk, and published in such manner as the council may direct. The planning commission shall also make such other reports as the council may from time to time require.

SECTION 2: Severability Clause

Should any word, phrase, sentence, paragraph, or section of this Ordinance be held invalid or unconstitutional, the remaining provisions of this ordinance shall remain in full force and effect.

SECTION 3: Effective Date

This Ordinance shall become effective 30 days following the date of adoption.

SECTION 4: Publication

The City Council directs the City Clerk to publish a summary of this ordinance in compliance with
Public Act 182 of 1991, as amended, and Section 6.5 of the Berkley City Charter.

Introduced on the First Reading at the Regular City Council Meeting on Monday, September 19, 2022.

Passed on the Second Reading at the Regular City Council Meeting on Monday, October 3, 2022.

	Daniel J. Terbrack Mayor	
Attest:		
Victoria Mitchell City Clerk		



MEMORANDUM

To: City Council

From: Kristen Kapelanski, Community Development Director

Subject: Proposed Amendments to Chapter 90 Article II of the City Code: Second Reading

Date: September 28, 2022

The Michigan Planning Enabling Act requires communities to establish and maintain a Planning Commission of five, seven, nine or eleven members. Over the past several months, the Planning Commission has seen substantial turnover which has given staff an opportunity to reexamine City Code provisions that set the number of Planning Commissioners for Berkley at nine. Given the size of the community and the desire to create a Commission composed of community members with personal, educational and professional backgrounds in related fields, staff proposes the City Council reduce the Planning Commission membership from nine to seven.

The first amendment also proposed allowing the Council to appoint a sitting City Council member to the Planning Commission if they so choose. Council considered that provision but ultimately chose not to include it and the city attorney has removed it from the text for the second reading.

There are currently two vacancies on the Planning Commission meaning the Commission size could be reduced immediately without having to wait for any existing terms to expire.

October 3, 2022 City Council Meeting

Moved by Councilmember	and seconded by Councilmember
to authorize the City Ma	nager to sign the Application for Additional
Service Credit Purchase for Rebecca Stout approv	ing two years of additional generic service
credit. This purchase is allowed by the City of Berk	ley MERIT System of Human Resource
Management Section 1001.08 and meets all of the	requirements of the MERS Plan Document
which would allow for this service credit purchase.	
Ayes:	
Nays:	
Motion:	

City of Berkley-Finance Department

Memorandum

To: Matt Baumgarten, City Manager

From: Mark Pollock, Finance Director

Date: September 27, 2022

Subject: Application for Generic Additional Service Credit Purchase

Attached is the MERS estimate for additional purchase of service time for Rebecca Stout. The current estimate from MERS is \$11,853, of which the employee will pay \$4,420 and the City would pay the balance of \$7,433. As with all of these service purchases, the fact remains that the City of Berkley would pay slightly more to MERS over two years of her continuing to work than this lump sum amount. This is because the calculation utilizes a formula that approximates the net present value of the service cost which is lower than the future cost over time.

This purchase is allowed under the MERIT Agreement. Feel free to call or e-mail me if you have any questions.