

CITY of NOVI CITY COUNCIL

Agenda Item 3 March 25, 2013

SUBJECT: Approval of the request of Stucky Vitale Architects for Detroit Metropolitan Credit Union JSP12-69, for the Preliminary Site Plan, Woodland Permit and Stormwater Management Plan approval. The subject property is located at the northeast corner of the intersection of Main Street and Novi Road in the TC-1, Town Center District. The development area is 0.83 acres and the applicant is proposing an approximately 3,000 square foot Detroit Metropolitan Credit Union.

SUBMITTING DEPARTMENT: Community Development Department - Planning

CITY MANAGER APPROVAL:

BACKGROUND INFORMATION

The applicant is proposing to construct a 3,000 square foot Detroit Metropolitan Credit Union with a proposed site size of 0.83 acres on the northeast corner of Main Street and Novi Road. The development area would be split off from a larger existing parcel.

A financial institution with accessory drive-through lanes is a permitted use in the TC-1, Town Center District. Accessory drive-through lanes at bank/credit union facilities are separate and distinct from regulations relating to drive-through restaurant uses.

All staff and consultant reviews recommended approval of the plan. The landscape review notes that a City Council waiver to allow a decorative fence with brick piers along the rights-of-way instead of the required brick wall is supported. The applicant has submitted the required sample board requested in the façade review letter. The removal of one landmark tree is proposed and will require a Woodland Permit.

For informational purposes, the applicant has provided a conceptual future development plan of the site and nearby vacant parcels. No plans have been submitted to the Planning Division for development on the nearby parcels. The applicant has indicated that a parcel split is intended and future property lines are shown on the plans. The review letters note that the intended parcel split must be completed prior to Stamping Set submittal, along with a confirmation of the cross-access easement for the shared access drive with the vacant properties to the north and east.

The Planning Commission held the required public hearing on the Preliminary Site Plan, Woodland Permit and Storm Water Management plan and has recommended <u>approval</u> of all three items. Relevant meeting minutes are attached.

RECOMMENDED ACTION: The following 3 motions are recommended:

Motion 1

Approval of the <u>Preliminary Site Plan</u> based on, with, and subject to the following:

a. City Council approval to permit a decorative fence with brick piers along the rights-of-way in lieu of a brick wall;

b. Subject to the conditions and items listed in the staff and consultant review letters being addressed on the Final Site Plan; and

This motion is made based on and subject to the site plan and site being in compliance with all applicable provisions of the Zoning Ordinance, including Articles 16, 24 and 25, and all applicable City Zoning Ordinance approvals, decisions, conditions and permits.

Motion 2

Approval of the <u>Woodland Permit</u>, based on, with and subject to the conditions and items listed in the staff and consultant review letters being addressed on the Final Site Plan. This motion is made because, with those items addressed, the Plan will be in compliance with Chapter 37 of the Code of Ordinances and all other applicable provisions of the Ordinance.

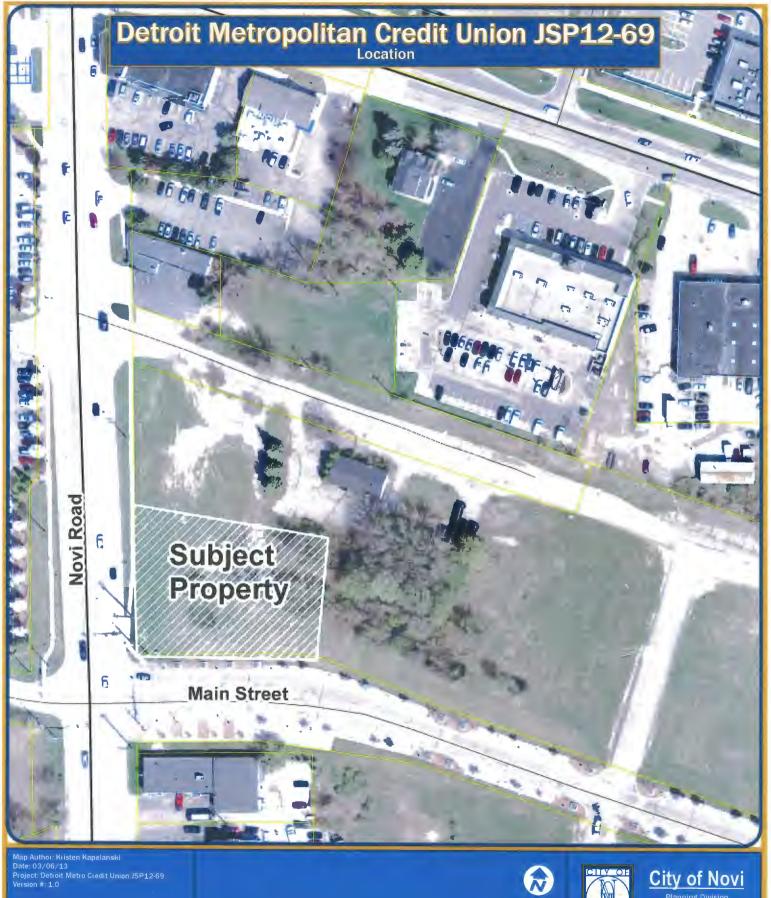
Motion 3

Approval of the <u>Storm Water Management Plan</u>, subject to the conditions and items listed in the staff and consultant review letters being addressed on the Final Site Plan. This motion is made because, with those items addressed, the Plan will be in compliance with Chapter 11 of the Code of Ordinances and all other applicable provisions of the Ordinance.

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Mayor Pro Tem Staudt				·
Council Member Casey				
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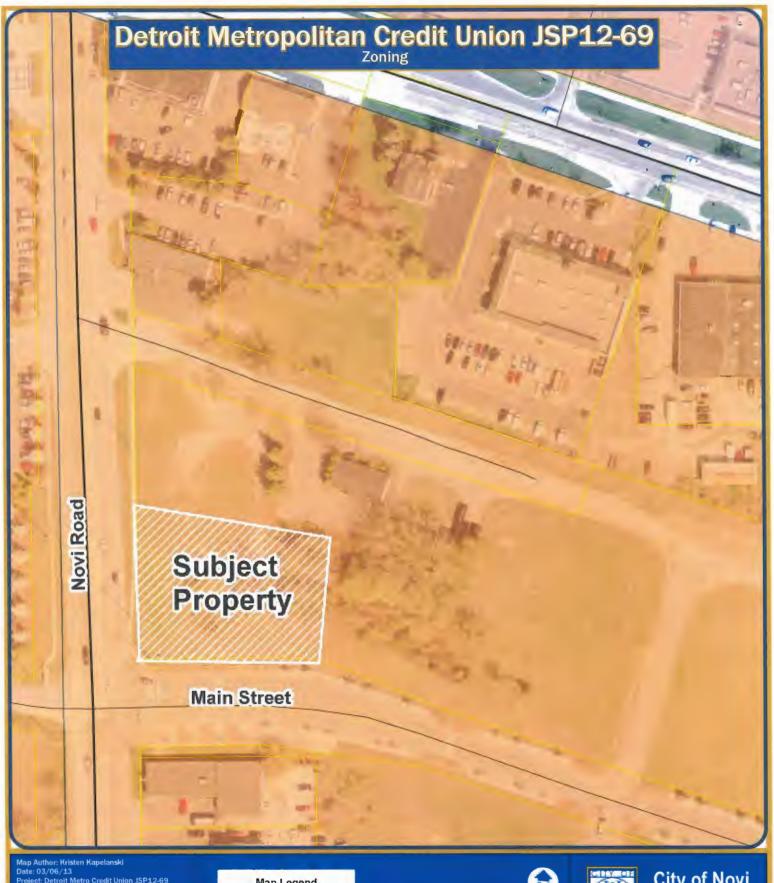
MAPS
Location
Zoning
Future Land Use
Natural Features







_		Feet		_
20	40	80	120	160



Date: 03/06/13
Project: Detroit Metro Credit Union JSP12-69
Version #: 1.0

Map Legend

TC: Town Center District TC-1: Town Center -1 District





City of Novi

Community Development 45175 W Ten Mile Rd Novi. MI 48375













Wetlands

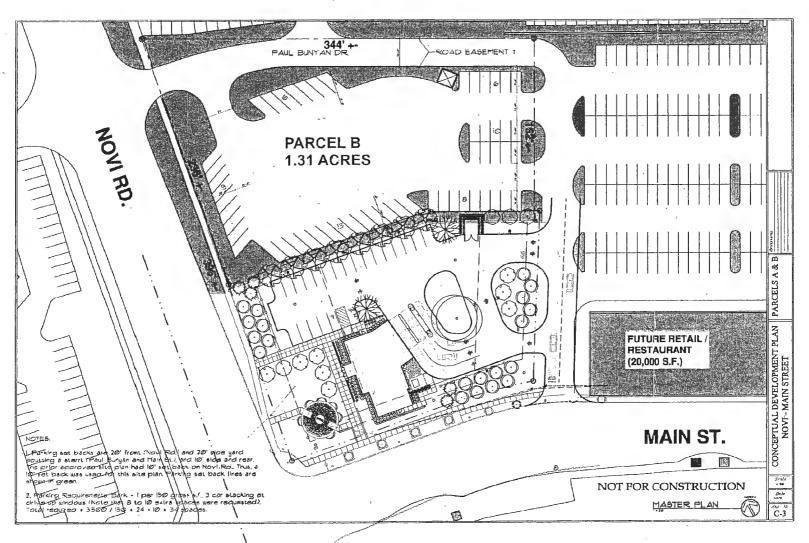




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20	80	120	160

SITE PLAN





CONCEPTUAL FUTURE DEVELOPMENT OF

SURROUNDING PARCELS

DRAFT PLANNING COMMISSION MEETING MINUTES MARCH 13, 2013 - EXCERPT



PLANNING COMMISSION MINUTES

CITY OF NOVI

Regular Meeting

March 13, 2013 7:00 PM

Council Chambers | Novi Civic Center | 45175 W. Ten Mile (248) 347-0475

CALL TO ORDER

The meeting was called to order at or about 7:00 PM.

ROLL CALL

Present: Member Anthony, Member Lynch, Chair Pehrson, Member Gutman, Member Zuchlewski

Absent: Member Prince, Member Greco

Also Present: Barbara McBeth, Deputy Director of Community Development; Beth Kudla-Saarela, City

Attorney; Kristen Kapelanski, Planner; David Beschke, Landscape Architect; Adam Wayne, Engineer

PLEDGE OF ALLEGIANCE

Member Lynch led the meeting attendees in the recitation of the Pledge of Allegiance.

APPROVAL OF AGENDA

Moved by Member Lynch, seconded by Member Zuchlewski:

VOICE VOTE ON THE AGENDA APPROVAL MOTION MADE BY MEMBER LYNCH AND SECONDED BY MEMBER ZUCHLEWSKI:

Motion to approve the March 13, 2013 Planning Commission Agenda. Motion carried 5-0.

PUBLIC HEARINGS

1. DETROIT METROPOLITAN CREDIT UNION, JSP12-69

Public hearing at the request of Stucky Vitale Architects for the recommendation to City Council regarding the Preliminary Site Plan, Woodland Permit and Stormwater Management Plan. The subject property is located in Section 23 at the northeast corner of the intersection of Main Street and Novi Road in the TC-1, Town Center District. The development area is .83 acres and the applicant is proposing an approximately 3,000 sq. ft. Detroit Metropolitan Credit Union.

Planner Kapelanski said the applicant is proposing to construct an approximately 3,000 sq. ft. Detroit Metropolitan Credit Union at the northeast corner of Main Street and Novi Road. The credit union parcel would be split off from the larger parcel that currently exists. The property is surrounded by vacant land to the north and west, Ace Cutting equipment on the opposite side of Main Street to the south and City Center Plaza on the opposite of Novi Road to the east. The subject property is zoned TC-1, Town Center and is bordered by TC-1 zoning on all sides. The Future Land Use map indicates TC Commercial Uses for the subject property and the surrounding properties. There is one landmark tree on the property, located near the center of the site. The applicant is proposing removal of this tree, which will require a woodland permit. There are no regulated wetland areas on the property.

The applicant is proposing a 3,000 sq. ft. financial institution with an accessory drive-through use. Drive-through lanes as an accessory use at a financial institution have typically been permitted in the TC and TC-1 District. This is separate from the standards relating to drive-through restaurants. The planning review recommends approval noting development on parcels larger than 5 acres in the TC-1 District requires the approval of the City Council after the review and recommendation of the Planning Commission. The landscape review recommends approval of the plan noting City Council approval is required to permit a decorative fence with brick piers along the rights-of-way in lieu of a brick wall. Staff supports this waiver. The woodland review recommends approval of the plan indicating the removal of the previously mentioned landmark tree. The façade review recommends approval of the plan. The applicant has submitted the required materials sample board. The engineering, traffic and fire reviews all recommend

approval of the plan.

Mike Blanic of Stucky Vitale Architects said as Kristen stated we are here tonight to present our plan for the 3,000 sq. ft. new credit union with the ATM lane and two additional drive-thru lanes. We've worked closely with the City Planning Department and the plan you see before you is a result of that effort. We've created that node in the corner as a pedestrian friendly corner with some landscaping and a bench and some pavers. We're trying to be sensitive to the district that we're in and meet all those requirements.

No one from the audience wished to speak and there was no correspondence. Chair Pehrson closed the public hearing.

Member Lynch said the only issue was the fence with the brick wall and that's really not an issue. The applicant has submitted the sample board that was requested. This looks like a wonderful addition to the property and it looks like you've done a very nice job.

Moved by Member Gutman and seconded by Member Lynch:

ROLL CALL VOTE ON THE PRELIMINARY SITE PLAN APPROVAL MOTION MADE BY MEMBER GUTMAN AND SECONDED BY MEMBER LYNCH:

In the matter of Detroit Metropolitan Credit Union, JSP12-69, motion to recommend approval of the Preliminary Site Plan subject to the following:

- a. City Council approval to permit a decorative fence with brick piers along the rights-of-way in lieu of a brick wall: and
- b. The conditions and items listed in the staff and consultant review letters being addressed on the Final Site Plan

because it is otherwise in compliance with Article 16, Article 24 and Article 25 of the Zoning Ordinance and all other applicable provisions of the Ordinance. *Motion carried 5-0*.

Moved by Member Gutman and seconded by Member Lynch:

ROLL CALL VOTE ON THE WOODLAND PERMIT APPROVAL MOTION MADE BY MEMBER GUTMAN AND SECONDED BY MEMBER LYNCH:

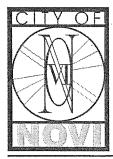
In the matter of Detroit Metropolitan Credit Union, JSP12-69, motion to recommend approval of the Woodland permit, subject to the conditions and items listed in the staff and consultant review letters being addressed on the Final Site Plan submittal because the plan is otherwise in compliance with Chapter 37 of the Code of Ordinances and all other applicable provisions of the Ordinance. *Motion carried 5-0*.

Moved by Member Gutman and seconded by Member Lynch:

ROLL CALL VOTE ON THE STORMWATER MANAGEMENT PLAN APPROVAL MOTION MADE BY MEMBER GUTMAN AND SECONDED BY MEMBER LYNCH:

In the matter of Detroit Metropolitan Credit Union, JSP12-69, motion to recommend approval of the Stormwater Management Plan, subject to the conditions and items listed in the staff and consultant review letters being addressed on the Final Site Plan because it is otherwise in compliance with Chapter 11 of the Code of Ordinances and all other applicable provisions of the Ordinance. *Motion carried 5-0*.

PLANNING REVIEW



PLAN REVIEW CENTER REPORT

February 28, 2013

Planning Review

Detroit Metropolitan Credit Union JSP12-69

Petitioner

Stucky Vitale Architects

Review Type

Preliminary Site Plan

Property Characteristics

• Site Location:

Northeast corner of the intersection of Main St. and Novi Rd. (Section 23)

• Site Zoning:

TC-1, Town Center

Adjoining Zoning:

North, South, East and West: TC-1

Current Site Use:

Vacant

Adjoining Uses:

North: Vacant; South: Ace Cutting Equipment (across Main St.); West:

vacant; East: City Center Plaza (across Novi Rd.)

School District:

Novi Community District

Existing Site Size:

7.23 acres

Proposed Site Size:

0.83 acres

Plan Date:

01-28-13

Project Summary

The applicant is proposing to construct an approximately 3,000 sq. ft. Detroit Metropolitan Credit Union on vacant land located at the northeast corner of Main St. and Novi Rd. The applicant has proposed splitting the parcel off from the existing larger parcel. Associated parking and landscaping would also be constructed. Accessory drive-through banking lanes are proposed.

Recommendation

Staff recommends approval of the Preliminary Site Plan. There are only minor planning related items to be addressed on the Final Site Plan submittal. <u>Prior to proceeding to the Planning Commission, the applicant should submit the require façade materials sample board.</u> See the façade review letter for additional information.

Ordinance Requirements

This project was reviewed for conformance with the Zoning Ordinance with respect to Article 16 (TC-1, Town Center District), Article 24 (Schedule of Regulations), Article 25 (General Provisions) and any other applicable provisions of the Zoning Ordinance. Items in **bold** below must be addressed by the applicant.

- 1. <u>Minor Items</u>: There are minor items noted in the planning review chart. **The applicant should adjust** the plans accordingly for the Final Site Plan submittal.
- 2. <u>Photometric Plan:</u> There are minor items to be addressed on the lighting review chart. The applicant should provide a paper copy of the photometric plan with the Final Site Plan submittal.
- 3. <u>City Council Approval:</u> In the TC-1 District, proposed developments on parcels over 5 acres in area must be approved by the City Council after the review and recommendation of the Planning Commission.
- 4. <u>Parcel Split:</u> The applicant has indicated and the plan shows a proposed parcel split. This must be completed before Stamping Sets can be stamped approved by the Planning Division.
- 5. <u>Shared Access Drive</u>: The main entrance to the subject property is accessed via a shared drive to be located on a parcel separate from the subject property and terminating 175 feet north of Main St. The applicant should provide additional information regarding where the shared drive will lead or where it will connect to existing drives and buildings and future development sites.

Planning Review

Detroit Metropolitan Credit Union

- February 28, 2013 Page 2 of 2
- 6. Drive-through Lanes: Drive-through lanes are considered a permitted accessory use to a financial institution in the TC-1 District and have been permitted in other locations as a typical complementary use. Please note this standard for drive-through lanes is separate and distinct from Zoning Ordinance regulations for drive-through restaurants in the TC-1 District. The proposed drivethrough lanes meet the standards for dimensional requirements, stacking spaces and circulation and buffering.
- 7. Signage: Exterior Signage is not regulated by the Planning Division or Planning Commission. Please contact Jeannie Niland (248.347.0438) for information regarding sign permits.3

Site Addressing

The applicant should contact the Building Division for an address prior to applying for a building permit. Building permit applications cannot be processed without a correct address. The address application can be found on the Internet at www.cityofnovi.org under the forms page of the Community Development Department.

Please contact Jeannie Niland [248.347.0438] in the Community Development Department with any specific questions regarding addressing of sites.

Pre-Construction Meeting

Prior to the start of any work on the site, Pre-Construction (Pre-Con) meetings must be held with the applicant's contractor and the City's consulting engineer. Pre-Con meetings are generally held after Stamping Sets have been issued and prior to the start of any work on the site. There are a variety of requirements, fees and permits that must be issued before a Pre-Con can be scheduled. If you have questions regarding the checklist or the Pre-Con itself, please contact Sarah Marchioni [248.347.0430 or smarchioni@cityofnovi.org] in the Community Development Department.

Chapter 26.5

Chapter 26.5 of the City of Novi Code of Ordinances generally requires all projects be completed within two years of the issuance of any starting permit. Please contact Sarah Marchioni at 248-347-0430 for additional information on starting permits. The applicant should review and be aware of the requirements of Chapter 26.5 before starting construction.

Response Letter

A letter from either the applicant or the applicant's representative addressing comments in this and other review letters is required prior to consideration by the Planning Commission and with the next

If the applicant has any questions concerning the above review or the process in general, do not hesitate to contact me.

Kristen Kapelanski, AICP, Planner

248-347-0586 or kkapelanski@cityofnovi.org

Planning Review Summary Chart

Detroit Metro Credit Union JSP12-69

Plan Dated: 01-28-13 Preliminary Site Plan

ltem	Required	Proposed	Meets Requirements?	Comments
Master Plan	TC Commercial	No change proposed	Yes	
Zoning	TC-1	TC-1	Yes	
Use (Sec. 1602)	Retail businesses, restaurants, offices and service establishments	Drive-thru credit union	Yes	
Building Height (Sec. 2400)	Maximum 65 feet	21'	Yes	
Building Setback	s (Sec. 2400)			
Front (west)	Between 80 and 137 feet from centerline of Novi Rd.	128 feet	Yes	
Exterior Side (south)	Max. 10 ft. Min. 0 ft.	10 feet	Yes	
Interior Side (north)	0 feet	75 feet	Yes	
Rear (east)	0 feet	81 feet (to canopy)	Yes	
Parking Setbacks	s (Sec. 2400)			
Front (west)	20 feet and	26 feet		
Exterior Side (south)	screened by a brick wall or berm	20 feet	Voc	
Interior Side (north)	10 feet	10 feet	Yes	
Rear (east)	10 feet	20 feet		*
Number of Parking Spaces (Sec. 2505)	Bank: One space for every 150 sq. ft. gross floor area. 3,000 sq. ft. / 150 = 20 spaces required	22 spaces proposed	Yes	
Parking Space Dimensions (Sec. 2506)	90-degree spaces should be 9 feet wide by 19 feet deep with a 24-foot wide aisle; when adj. to landscaping, spaces can be 17 feet deep, with a 2 foot overhang into the landscaped area	9' x 17'	Yes	A 4" curb should be shown wherever 17' spaces are proposed.

ltem	Required	Proposed	Meets Requirements?	Comments
Barrier Free Spaces (Barrier Free Code)	1 van accessible required	2 van accessible provided	Yes	
Barrier Free Space Dimensions (Barrier Free Code)	8' wide with a 5' wide access aisle (8' wide access aisle for van accessible)	8' x 17'	Yes	
Barrier Free Signs (Barrier Free Design Graphics Manual)	One barrier free sign is required per space.	Signs shown	Yes	
Open Space (Sec. 1603)	15% open space required	42% open space provided	Yes	
Stacking Spaces for Drive-through (Sec. 2506)	3 vehicles inclusive of the vehicle at the window	3 vehicles shown in each lane	Yes	
Drive-through Lane Delineated (Sec. 2506)	Drive-through lanes shall be striped, marked, or otherwise delineated.	Striping provided	Yes	
Bypass Lane for Drive-through (Sec. 2506)	Drive-through facilities shall provide 1 bypass lane. Such bypass lane shall be a minimum of 18' in width, unless otherwise determined by the Fire Marshal.	24' bypass lane shown	Yes	,
Width and Centerline Radius of Drive- through Lanes (Sec. 2506)	Drive-through lanes shall have a minimum 9' width and centerline radius of 25'.	9' width Centerline radius of 25'	Yes	
Drive-through Lanes Separation (Sec. 2506)	Drive-through lanes shall be separate from the circulation routes and lanes necessary for ingress to, and egress from, the property.	Drive-through lanes are situated near the center of the site so as not to interfere with the general circulation routes.	Yes	
Dumpster and Refuse	Refuse must be contained	Dumpster set back 6 feet from nearest	Yes	

Item	Required	Proposed	Meets Requirements?	Comments
(Chapter II, Sec. 16-20; Chapter II Sec. 21, division 8; Appendix A Sec. 2520.1; & Appendix A Sec. 2503.1.D)	properly For dumpsters: Screen wall or fence required for all dumpsters, must be at least five feet in height, and provided on three sides. Enclosure to match building materials	property line and 98 feet from building. Screening of 6 feet provided on three sides to match building façade.	•	
	No detached accessory building shall be located closer than ten (10) feet to any main building nor shall it be located closer than (6) feet to any interior side lot or rear lot line.			
Town Center Features	Decorative features and pedestrian plazas are required	Plaza proposed at the southwest corner of the site.	Yes	See the landscape review letter for additional information.
Exterior Signs	Exterior Signage is not regulated by the Planning Division or Planning Commission.			Please contact Jeannie Niland (248.347.0438) in the neighborhood services division if new signage is proposed.
Exterior Lighting (Sec. 2511)	Photometric plan and exterior lighting details needed at final site plan.	347 0584 or kkapalanski@	N/A	

Prepared by Kristen Kapelanski, (248) 347-0586 or kkapelanski@cityofnovi.org

Lighting Review Summary Chart
Detroit Metropolitan Credit Union JSP12-69
Plan Date: 01-28-13

Item	Required	Meets Requirements?	Comments
Intent (Section 2511.1)	Establish appropriate minimum levels, prevent unnecessary glare, reduce spillover onto adjacent properties, reduce unnecessary transmission of light into the night sky	Yes	
Lighting plan (Section 2511.2.a.1)	Site plan showing location of all existing and proposed buildings, landscaping, streets, drives, parking areas and exterior lighting fixtures	Yes	
Lighting Plan (Section 2511.2.a.2)	Specifications for all proposed and existing lighting fixtures including: Photometric data Fixture height Mounting & design Glare control devices Type and color rendition of lamps Hours of operation Photometric plan	No	The applicant should add the hours of operation to the photometric plan.
Required conditions (Section 2511.3.a)	Height not to exceed maximum height of zoning district or 25 feet where adjacent to residential districts or uses.	Yes	
Required Notes (Section 2511.3.b)	- Electrical service to light fixtures shall be placed underground - No flashing light shall be permitted - Only necessary lighting for security purposes and limited operations shall be permitted after a site's hours of operation. Average light level of	No Yes	The applicant should add the required notes to the photometric plan.

Item	Required	Meets Requirements?	Comments
conditions (Section 2511.3.e)	the surface being lit to the lowest light of the surface being lit shall not exceed 4:1.	Requiements:	Comments
Required conditions (Section 2511.3.f)	Use of true color rendering lamps such as metal halide is preferred over high and low pressure sodium lamps.	Yes	
Minimum Illumination (Section 2511.3.k)	- Parking areas- 0.2 min - Loading and unloading areas- 0.4 min - Walkways- 0.2 min - Building entrances, frequent use- 1.0 min - Building entrances, infrequent use- 0.2 min	Yes	
Maximum Illumination adjacent to Non- Residential (Section 2511.3.k)	When site abuts a non- residential district, maximum illumination at the property line shall not exceed 1 foot candles	Yes	
Cut off Angles (Section 2511.3.1(2))	All cut off angles of fixtures must be 90 degrees when adjacent to residential districts	Yes	

ENGINEERING REVIEW



PLAN REVIEW CENTER REPORT

February 28, 2013

Engineering Review

Detroit Metropolitan Credit Union JSP12-0069

Petitioner

Stucky Vitale Architects, applicant

Review Type

Preliminary Site Plan

Property Characteristics

Site Location:

N. of Main Street E. of Novi Rd

Site Size:

0.887 acres

Plan Date:

January 28, 2013

Project Summary

- Construction of an approximately 3,000 square-foot building and associated parking. Site access would be provided an ingress/egress easement over the proposed driveway connecting to Main Street.
- Water service would be provided by a 2-inch domestic lead from the existing 12-inch water main on Main Street along with an additional hydrant west of the proposed development.
- Sanitary sewer service would be provided by extending an 8-inch sanitary sewer onto the development as a public utility.
- Storm water would be collected by a single storm sewer collection system and detained in an underground detention system prior to discharging into the storm sewer network on Novi Rd.

Recommendation

Approval of the Preliminary Site Plan and Preliminary Storm Water Management Plan is recommended.

Engineering Review of Preliminary Site Plan Detroit Metropolitan Credit Union JSP 12-0069

Comments:

The Preliminary Site Plan meets the general requirements of Chapter 11, the Storm Water Management Ordinance and the Engineering Design Manual with the following items to be addressed at the time of Final Site Plan submittal (further engineering detail will be required at the time of the final site plan submittal):

Additional Comments (to be addressed prior to the Final Site Plan submittal):

General

- 1. Provide a note on the plans that all work shall conform to the current City of Novi standards and specifications.
- 2. The City standard detail sheets are not required for the Final Site Plan submittal. They will be required with the Stamping Set submittal.
- 3. Submit IWC Non-Domestic form to the City of Novi.

Water Main

- 4. Provide a profile for the proposed water main with the pipe invert and stationing of all valves, fittings, flanges, hydrants, blow-offs, high and low points, and any other appurtenances.
- 5. Three (3) sealed sets of revised utility plans along with the MDEQ permit application (1/07 rev.) for water main construction and the Streamlined Water Main Permit Checklist should be submitted to the Engineering Department for review, assuming no further design changes are anticipated. Utility plan sets shall include only the cover sheet, any applicable utility sheets and the standard detail sheets.

Sanitary Sewer

- 6. Revise the sanitary sewer easement to a 20 ft wide easement centered on the proposed sanitary sewer.
- 7. Provide a profile of the proposed sanitary sewer showing a minimum cover of 4 feet.
- 8. Provide the service area and basis of design for the proposed sanitary sewer extension.
- 9. Five (5) sealed sets of revised utility plans along with the MDEQ permit application (11/07 rev.) for sanitary sewer construction and the Streamlined Sanitary Sewer Permit Certification Checklist should be submitted to the Engineering Department for review, assuming no further design changes are anticipated. Utility plan sets shall include only the cover sheet, any applicable utility sheets and the standard detail sheets. Also, the MDEQ can be contacted for an expedited review by their office.

Storm Sewer

10. Provide a profile of the proposed storm sewer showing a minimum cover of 3 feet. Indicate all structure types and diameters.

11. Provide hydraulic calculations verifying that the storm sewer network on Novi Rd is capable of accepting the proposed discharge from the site.

Storm Water Management Plan

- 12. The Storm Water Management Plan for this development shall be designed in accordance with the Storm Water Ordinance and Chapter 5 of the new Engineering Design Manual.
- 13. Denote an overland route for storm water that would occur in the event that the underground system cannot accept flow. This route shall be directed to a recognized drainage course or drainage system. Verify that any structures accepting overland flow are capable of handling the 100-year flood capacity.
- 14. Provide an underground detention system cross-section with critical elevations (bankfull and 100-year storm hydraulic grade lines) demonstrating that the detention system is 3 feet above ground water and has the required 1 foot of freeboard between the high water elevation and the subgrade below the pavement.
- 15. Revise the composite 'c' factor calculation to '26,227/38,637=0.68' from '38,637/26,227=0.68' as shown.

Paving & Grading

- 16. Provide a minimum of 6 spot elevations where the pathway crosses the driveway (one at each corner and two in the center of the driveway on each side of the pathway). Spot elevations shall also be provided to demonstrate a level landing adjacent to each side of the pathway crossing.
- 17. No more than 1/2" vertical obstacle shall be allowed at each transition between the pathway and the drive approach.
- 18. Revise the sidewalk cross-section to show 4" thick of 4000 psi concrete (8" thick through commercial/industrial drives) over 6" thick of 21AA crushed limestone. The stone base shall extend a minimum of 1" beyond the forms.

Off-Site Easements

19. All off-site water and sanitary sewer easements must be dedicated as a public easement.

The following must be submitted at the time of Final Site Plan submittal:

- 20. A letter from either the applicant or the applicant's engineer <u>must</u> be submitted with the Final Site Plan highlighting the changes made to the plans addressing each of the comments listed above <u>and indicating the revised</u> sheets involved.
- 21. An itemized construction cost estimate must be submitted to the Community Development Department at the time of Final Site Plan submittal for the determination of plan review and construction inspection fees. This estimate should only include the civil site work and not any costs associated with construction of the building or any demolition work. The cost estimate must be itemized for each utility (water, sanitary, storm sewer), on-site paving, right-

of-way paving (including proposed right-of-way), grading, and the storm water basin (basin construction, control structure, pretreatment structure and restoration).

The following must be submitted at the time of Stamping Set submittal:

- 22. A draft copy of the maintenance agreement for the storm water facilities, as outlined in the Storm Water Management Ordinance, must be submitted to the Community Development Department with the Final Site Plan. Once the form of the agreement is approved, this agreement must be approved by City Council and shall be recorded in the office of the Oakland County Register of Deeds.
- 23. An executed copy of the private ingress/egress easement for shared use of the drive entry from Main Street must be submitted to the Community Development Department.
- 24. An executed copy of the 20-foot wide easement for the water main to be constructed on the site must be submitted to the Community Development Department.
- 25. A draft copy of the 20-foot wide easement for the sanitary sewer to be constructed on the site must be submitted to the Community Development Department.
- 26. An executed copy of the 20-foot wide easement for the sanitary sewer to be constructed off- site must be submitted to the Community Development Department.
- 27. Executed copies of any required <u>off-site</u> utility easements must be submitted to the Community Development Department.

The following must be addressed prior to construction:

- 28. A pre-construction meeting shall be required prior to any site work being started. Please contact Sarah Marchioni in the Community Development Department to setup a meeting (248-347-0430).
- 29. A City of Novi Grading Permit will be required prior to any grading on the site. This permit will be issued at the pre-construction meeting. Once determined, a grading permit fee must be paid to the City Treasurer's Office.
- 30. A Soil Erosion Control Permit must be obtained from the City of Novi. Contact Sarah Marchioni in the Community Development Department (248-347-0430) for forms and information.
- 31. A permit for work within the right-of-way of Main Street must be obtained from the City of Novi. The application is available from the City Engineering Department and should be filed at the time of Final Site Plan submittal. Please contact the Engineering Department at 248-347-0454 for further information.

- 32. A permit for work within the right-of-way of Novi Rd must be obtained from the Road Commission for Oakland County. Please contact the RCOC (248-858-4835) directly with any questions. The applicant must forward a copy of this permit to the City. Provide a note on the plans indicating all work within the right-of-way will be constructed in accordance with the Road Commission for Oakland County standards.
- 33. A permit for water main construction must be obtained from the MDEQ. This permit application must be submitted through the City Engineer after the water main plans have been approved.
- 34. A permit for sanitary sewer construction must be obtained from the MDEQ. This permit application must be submitted through the City Engineer after the sanitary sewer plans have been approved.
- 35. Construction Inspection Fees to be determined once the construction cost estimate is submitted must be paid prior to the pre-construction meeting.
- 36. A storm water performance guarantee, equal to 1.5 times the amount required to complete storm water management and facilities as specified in the Storm Water Management Ordinance, must be posted at the Treasurer's Office.
- 37. An incomplete site work performance guarantee for this development will be calculated (equal to 1.5 times the amount required to complete the site improvements, excluding the storm water facilities) as specified in the Performance Guarantee Ordinance. This guarantee will be posted prior to TCO, at which time it may be reduced based on percentage of construction completed.
- 38. A street sign financial guarantee in an amount to be determined (\$400 per traffic control sign proposed) must be posted at the Treasurer's Office.
- 39. Permits for the construction of each retaining wall must be obtained from the Community Development Department (248-347-0415).

Please contact Adam Wayne at (248) 735-5648 with any questions.

cc:

Ben Croy, Engineering Brian Coburn, Engineering

Kristen Kapelanski, Community Development Department

Tina Glenn, Water & Sewer Dept.

TRAFFIC REVIEW

February 11, 2013

Barbara McBeth, AICP Deputy Director of Community Development City of Novi 45175 W. Ten Mile Rd. Novi, MI 48375

SUBJECT:

Detroit Metropolitan Credit Union, JSP12-0069,

Traffic Review of Preliminary Site Plan, PSP13-0046

Dear Ms. McBeth:

At your request, we have reviewed the above and offer the following recommendation and supporting comments.

Recommendation

We recommend approval of the preliminary site plan, subject to the items shown below in **bold** being satisfactorily addressed on the final site plan.

Site Description

What is the applicant proposing, and what are the surrounding land uses and road network?

 The applicant is proposing to construct a 3,000-s.f. credit union with three drive-through lanes (one equipped with an ATM). Vehicular access would be provided via a new, twolane shared access drive along the east side of the site that would (presumably) be shared by others in the future. Pedestrian access would be provided via sidewalk stubs to the Main Street and Novi Road sidewalks.

Trip Generation & Traffic Study

Was a traffic study submitted and was it acceptable? How much new traffic would be generated?

2. A 3,000-s.f. financial institution with three drive-through lanes can be expected to generate 444 one-way vehicular trips per weekday, 36 in the AM peak hour (21 entering and 15 exiting) and up to 100 in the PM peak hour (49 entering and 51 exiting, based on the number of drive-through lanes). Since the maximum number of peak-hour, peak-direction trips would be less than 75, a formal traffic study is not required.

Vehicular Access Locations

Do the proposed "driveway" locations meet City spacing standards?

3. Yes. The proposed shared drive would be 228 ft east of Novi Road, or well in excess of the minimum same-side driveway spacing (105 ft for 25 mph) to both the west and east. The opposite-side spacing standard does not apply to a Non-Residential Collector such as Main.

Vehicular Access Improvements

Will there be any improvements to the abutting road(s) at the proposed access point(s)?

- 4. No. Based on existing PM peak-hour volumes on Main (recently counted for the Panera Drive-Through study), Main adjacent to the subject site appears to now be serving roughly 2,000 vehicles per day. Neither a left-turn passing lane nor a right-turn deceleration lane and/or taper are therefore warranted (based on DCS Figures IX.8 and IX.10).
- 5. The proposed shared driveway would end 175 ft north of the north curb of Main Street. As also shown on our attached aerial photo, this would end that driveway just a few feet short of existing pavement that connects to Paul Bunyon. The applicant should either extend the shared drive all the way to Paul Bunyon and equip it with 20-ft corner radii there, or effectively barricade it at the extent of extension currently proposed.
- 6. The owner and the party responsible for operating and maintaining the shared drive (if different than the owner) need to be specified on the site plan. Given that that drive would be on a parcel separate from the credit union, a general-purpose cross access easement acceptable to the City Attorney should be recorded by the owner of the property within which the new drive would lie.

Access Drive Design & Control

Are the proposed design, pavement markings, and signage satisfactory?

- 7. The width and south curb returns of the shared drive are acceptably designed. **Per City and** standard engineering practice, these elements should be dimensioned to back of curb.
- 8. Per our pre-application comments of 1-17-13 and the City's Design and Construction Standards:
 - a. The width of the site's (enter-only) south drive should be 16 ft, back-of-curb to back-of-curb (the architectural plan proposes that width face-to-face, and the engineering plan proposes 17.5 ft back-to-back).
 - b. The curb return radii at the south drive should be 20 ft on the north side and 5 ft on the south side, both referenced to back of curb (again, the architectural and engineering plans differ from both each other and the standard).
 - c. The curb return radii at the site's north (two-way) drive should be 20 ft, referenced to back of curb (the architectural plan provides that dimension to face of curb).
- 9. The final site plan should include a Signing and Pavement Marking Plan proposing:
 - a. An 18-inch-wide white stop bar on the shared drive, 4 ft in advance of the Main Street sidewalk, accompanied by a 20-ft-long double solid yellow centerline.

- rage 3
- b. Two 24-inch STOP (R1-1) signs, one on the south end of the shared drive, 4 ft in advance of the Main Street sidewalk, and one on the exiting side of the north drive, 4 ft in advance of the property line.
- c. Back-to-back (north- and south-facing) ONE WAY (R6-1) signs on the property line on the north side of the south drive (mounted, per the MMUTCD, at a 7-ft height).
- d. A white pavement arrow pointing generally west from the center of the south drive (optional, but if this or any other pavement arrows are proposed, they should be white).
- e. Signs and markings internal to the site, along with revised details, described below.
- f. A note indicating that all signs and markings will comply with the 2011 Michigan Manual on Uniform Traffic Control Devices (MMUTCD).
- g. A Sign Quantities Table, listing each traffic and parking control sign by standard description, MMUTCD sign code, number of signs required, and number of posts required.
- 10. We see no need for the stop bar or word STOP on the pavement in the north drive, and recommend that they be deleted to reduce long-term maintenance requirements.

Pedestrian Access

Are pedestrians safely and reasonably accommodated?

11. To encourage proper sidewalk use, the 5-ft sidewalk widening behind the planter boxes on Main should be equipped with a 45-degree taper to the old walk at its east end.

Circulation & Parking

Can vehicles safely and conveniently maneuver through the site?

- 12. The landscape island immediately east of the drive-through lanes lacks the 15-ft corner radii generally required by Sec 2506.13 of the Zoning Ordinance. To address this situation, the plan should:
 - a. Widen the west island by 5 ft east-to-west and apply a uniform 15-ft radius on the island's south end.
 - b. Shift the 25-ft-wide internal service drive 5 ft closer to the east side of the site.
 - c. Reduce the east island's two westerly curb radii to 15 ft (from the 20 ft proposed).
 - d. Show the dumpster shifted 5 ft east to keep it nominally centered relative to the relocated north-south service drive.

- 13. All back-of-curb radii of 5 ft or more should be dimensioned on at least one sheet of the engineering plan. Generally, these radii should be expressed in whole feet (not half foot because the architect dimensioned standard radii to the face rather than back of curb).
- 14. A plan note should be included stating that all parking space dimensions (width as well as length) are referenced to the face of curb.
- 15. To comply with City policy that assumes a 2-ft parking overhang, the curb along the northernmost bank of parking stalls should be reduced in height to 4 inches. This should be indicated by a detail and/or note on sheet SP1.1 as well as revised elevations on sheet C-2. In a related matter, the Curb and Walk detail now appearing on sheet SP1.1 should be corrected to show a 4-inch (not 6-inch) walk height.
- 16. Per the MMUTCD and City policy:
 - a. Drive-through lane striping, undesignated parking space stripes, wheelchair symbols in the barrier-free parking spaces, and optional directional arrows must be white.
 - b. Crosshatching of the barrier-free access aisle, and striping of barrier-free spaces, must be blue. Abutting barrier-free and non-barrier-free parking spaces should be separated by abutting blue and white stripes.
 - c. Posts supporting the barrier-free signs should be at the back not face of the sidewalk.
 - d. The main barrier-free sign must be a RESERVED PARKING [wheelchair symbol] ONLY
 (R7-8) sign. The sign detail now appearing on sheet C-2 is incorrect.
 - e. The VAN ACCESSIBLE supplemental sign to be used for both barrier-free spaces in this case should be labeled with its MMUTCD code: R7-8P. Although these signs will be just behind the sidewalk, we recommend that a minimum mounting height of 6'-3" be used to enhance pedestrian safety.

Sincerely,

CLEARZONING, INC.

Rodney L. Arroyo, AICP

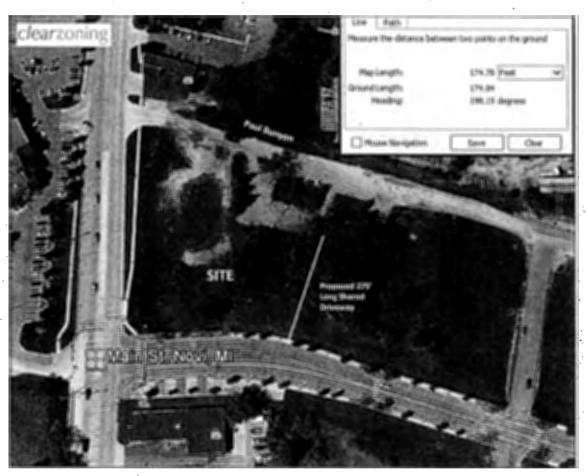
President

William A. Stimpson, P.E.

William a- Stimpson

Director of Traffic Engineering

Attachment: Aerial photo



Vicinity Aerial Photo for Proposed Detroit Metropolitan Credit Union

LANDSCAPE REVIEW



cityofnovi.org

PLAN REVIEW CENTER REPORT

February 21, 2013

Landscape Preliminary Site Plan

Detroit Metro Credit Union JSP#12-69

<u>Petitioner</u>

Stucky Vitale Architects

Review Type

Preliminary Site Plan

Property Characteristics

Site Location: Northeast corner of the intersection of Main St. and Novi Rd.

Site Zoning: TC-1, Town Center

Adjoining Zoning: North, South, East and West: TC-1

Current Site Use: Vacant

• Adjoining Uses: North: Vacant; South: (across Main St.); West: vacant; East:

City Center Plaza (across Novi Rd.)

School District: Novi Community District

Existing Site Size: 7.23 acres
Proposed Site Size: 0.83 acres
Plan Date: 01-28-13

Ordinance Considerations

TC-1 District (Sec. 1602)

1. Significant pedestrian orientation is a stated intent of the TC-1 District. Architectural amenities such as decorative paving, pedestrian scale lighting, small scale landscape features and focal points are in keeping with the intent and theme of the district. The Applicant has included a paved and landscape area on the prominent corner. A single bench has been proposed in the center of the space. The Applicant may consider shifting the bench back to sit at the edge of the paved space to make it more useable and pedestrian friendly.

As this is a highly visible location, the Planning Commission may also wish to ask the Applicant to consider a more significant amenity in keeping with the intent of the Town Center District ordinance. Alternatives could be the inclusion of a more prominent feature such as artwork or a fountain to be provided by the Applicant.

Staff has also had discussions with the City of Novi's Parks, Recreation and Cultural Services Department. The Department is interested in a cooperative effort with the Applicant to provide artwork at this corner location. The Applicant is asked to consider making contact with the Parks Foundation and/or the Department, Jason Mangum, in order to initiate a dialogue. The City would seek an easement on the corner property in order to maintain the art. The Applicant would still remain responsible for maintenance of the property and landscape. It is intended that the artwork would be a standing sculpture, much

like those currently located in Fuerst Park. The Fuerst Park sculptures are regularly rotated as part of a lease program. If any sculpture were proposed at this project location, it could be treated in the same manner under the same program.

2. The Applicant has included connecting walkways to the south and west sides of the building. Also added is a 5' wide walkway along Main Street allowing for pedestrians to maneuver around the existing raised tree planters. The planters are to be refurbished and will remain.

Adjacent to Public Rights-of-Way – Berm (Wall) & Buffer (Sec. 2509.3.b.)

- 1. A 3' tall decorative brick wall is required along the Novi Road and Main Street right-of-ways adjacent to parking and vehicular access areas. A decorative fence with brick piers may be used with the consent of the Planning Commission. It should be shown that the goal is to match the overall landscape scheme for development of the area. The Applicant has appropriately proposed decorative fencing with brick piers in areas adjacent to parking. Staff would support the use of the fencing as it is in keeping with the character of the district.
- 2. Right-of-way greenbelt planting calculations and plantings are required. A 20' wide landscape greenbelt is required. This greenbelt has been adequately provided. Calculations for the required landscape along the greenbelt frontages have been provided and requirements have been met.
- 3. Twenty five foot clear vision areas must be maintained and depicted on the plan at all vehicular intersections. This requirement has been met.

Street Tree Requirements (Sec. 2509.3.b.)

1. No Street Trees are required in Town Center District.

Parking Landscape (Sec. 2509.3.c.)

- 1. Interior Parking Landscape Area is required. Adequate landscape area has been provided.
- 2. Parking Lot Canopy Trees are required. Calculations show that 18 trees are required. This requirement has been met.
- 3. Please show snow storage areas on the plan as required.

Parking Lot Perimeter Canopy Trees (Sec. 2509.3.c.(3))

1. Perimeter Parking Lot Canopy Trees are required per 35 LF surrounding parking and access areas. This requirement has been met.

Building Foundation Landscape (Sec. 2509.3.d.)

- 1. A minimum 4' wide landscape bed is required around the entire building foundation with the exception of access areas. This requirement has been met.
- 2. A total of 8' x the length of the building foundation landscape area is required. This requirement has been met.

Plant List (LDM)

1. A Plant List per the requirements of the Ordinance and the Landscape Design Manual has been provided.

Planting Notations and Details (LDM)

- 1. Planting Notations and Details per the requirements of the Ordinance and the Landscape Design Manual have been provided.
- 2. A note on Sheet L-1 states that the landscape contractor shall maintain the landscape for a period of 1 year. The ordinance requires a guaranteed maintenance period of two years. Please adjust the note accordingly.

Irrigation (Sec. 2509 3.f.(6)(b))

1. An Irrigation Plan must be provided upon final stamping set submittal. Please provide a cost estimate for the irrigation system.

General

- 1. Please verify that all underground and overhead utilities, both existing and proposed, on the landscape plan.
- 2. Please provide details on the proposed signage.

Please follow guidelines of the Zoning Ordinance and Landscape Design Guidelines. This review is a summary and not intended to substitute for any Ordinance. For the landscape requirements, see the Zoning Ordinance landscape section on 2509, Landscape Design Manual and the appropriate items in the applicable zoning classification.

Reviewed by: David R. Beschke, RLA

WOODLAND REVIEW



Environmental Consulting & Technology, Inc.

February 27, 2013

Ms. Barbara McBeth
Deputy Director of Community Development
City of Novi
45175 West Ten Mile Road
Novi, MI 48375

Re:

Detroit Metropolitan Credit Union (JSP12-0069)

Woodland Review of the Preliminary Site Plan

Dear Ms. McBeth:

Environmental Consulting & Technology, Inc. (ECT) has reviewed the proposed Detroit Metropolitan Credit Union Preliminary Site Plan (Plan) prepared by Stucky Vitale Architects dated January 28, 2013. The Plan and supporting documentation were reviewed for conformance with the City of Novi Woodland Protection Ordinance Chapter 37.

The proposed project is located at the northeast corner of Novi Road and Main Street (Section 23). The proposed Plan would construct a 1-story (3,000 square foot) credit union, associated parking and utilities, and underground storm water detention system.

Existing Conditions - Woodlands

Based on our review of Novi aerial photos, Novi GIS, and the City of Novi Official Woodlands Map, this site does not appear to contain any areas that are designated as Regulated Woodlands. However a 40-inch tree has been indicated for removal on the Plan (*Topographic Survey*, Sheet C-1).

Based on the City of Novi Woodland Ordinance this tree is considered a landmark tree and is therefore regulated by the City of Novi Woodland Protection Ordinance. It should be noted that the Woodland Ordinance applies to the following:

"Any individual tree with a diameter at breast height (d.b.h.) of thirty-six (36) inches or greater, irrespective of whether such tree is within a regulated woodland. A woodland use permit shall be required under section 37-26 before the conduct of any activity which has the effect of removing, damaging or destroying a tree with a d.b.h. of thirty-six (36) inches or greater".

Several other relatively-large trees are located on the property but are not large enough to be considered landmark trees.

The species and condition of the existing trees do not appear to be indicated on the Plan.

Proposed Impacts

As stated above, the proposed site plan indicates the removal of one landmark sized tree. This 40" d.b.h. tree is located within the proposed access drive found on the east side of the proposed site.

2200 Commonwealth Blvd., Suite 300 Ann Arbor, MI 48105

> (734) 769-3004

FAX (734) 769-3164 Detroit Metropolitan Credit Union (JSP12-0069) Woodland Review of the Preliminary Site Plan February 27, 2013 Page 2 of 3

Required Permits

Based on information provided on the Plan, the proposed project will require a City of Novi Woodlands Use Permit.

Comments

- 1. The Applicant will be required to provide 4 woodland replacement credits for the removal of this tree.
- Several items must be provided in subsequent Plan submittals in order to comply with site
 plan standards outlined in the updated Chapter 37 Woodland Protection Ordinance. The
 following information should be provided on subsequent Plans:
 - a. Condition and/or species of the existing trees;
 - b. The number of replacement credits that will be provided on-site;
 - c. The species/quantities/sizes and locations of replacement trees;
- 3. Per the City's Woodland Ordinance (Chapter 37, Article I In General, Section 37-8 Relocation or replacement of trees):

Where tree relocation or replacement is not feasible... on the project property, the permit grantee shall pay into the city tree fund monies for tree replacement in a per tree amount representing the market value for the tree replacement as approved by the planning commission. The city tree fund shall be utilized for the purpose of woodland creation and enhancement, installation of aesthetic landscape vegetation, provision of care and maintenance for public trees and provision and maintenance of specialized tree care equipment. Tree fund plantings shall take place on public property or within right-of-ways with approval of the agency of jurisdiction.

If suitable replacement locations will not be available on-site, a total of \$400 per replacement tree that cannot be provided on site shall be paid to the City Tree Fund. Any proposed payments to the City of Novi Tree Fund should be indicated on the Plan.

Conclusion

ECT believes that one tree (indicated as 40" d.b.h.) on the Plan is regulated under the Woodland Protection Ordinance and therefore the proposed project requires a Woodland Use Permit.

Additional information discussed above must be provided on subsequent Plan submittals in order to meet the site plan standards of the Woodland Protection Ordinance.

Detroit Metropolitan Credit Union (JSP12-0069) Woodland Review of the Preliminary Site Plan February 27, 2013 Page 3 of 3

Recommendation

ECT recommends approval of the Preliminary Site Plan for Woodlands contingent on the Applicant addressing the comments noted above.

As always, if you have any questions regarding the contents of this letter, please feel free to contact our office.

Respectfully,

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

Peter Hill, P.E.

Senior Associate Engineer

cc: David Beschke, City of Novi, Licensed Landscape Architect

Kristen Kapelanski, AICP, City of Novi Planner

Angela Pawlowski, City of Novi, Senior Customer Service

FACADE REVIEW



February 27, 2013

City of Novi Planning Department 45175 W. 10 Mile Rd. Novi, MI 48375-3024

. Re: FACADE ORDINANCE - Facade Review - Final Site Plan

Detroit Metropolitan Credit Union, PSP13-0046

Façade Region: 1, Zoning District: TC-1

Dear Ms. McBeth;

The following is the Facade Review for Preliminary Site Plan Approval of the above referenced project based on the drawings prepared by Stucky Vitale Architects, dated 1/28/13. The percentages of materials proposed for each façade are as shown on the table below. The maximum percentages allowed by the Schedule Regulating Façade Materials (AKA Façade Chart) of Ordinance Section 2520 are shown in the right hand column. Materials in non-compliance with the Façade Chart, if any, are highlighted in bold. This project is located in the TC-1 District and is therefore also subject to Section 1603.9 of the Ordinance.

	West (Front)	South	East	North	Ordinance Maximum (Minimum)
Brick	79%	70%	85%	70%	100% (30%)
Flat Metal Panels	13%	22%	7%	. 22%	50%
Flat Metal Panels (Roof Screens)	8%	8%	8%	8%	50%
All Flat Metal Panels combined	21%	30%	15%	30%	50%

As shown above the percentages of all materials are in full compliance with the Façade Ordinance, Section 2520. Section 1603.9 of the Ordinance places additional requirements on building located in the TC-1 District; that exterior building facades "shall be primarily of brick and stone." The proposed design has a minimum of 70% Brick on each façade and therefore complies with this requirement.

Please note that the required sample board was not provided at the time of this review. The sample board should be provided prior to the Planning Commission meeting. It should be noted that ribbed metal panels are not allowed by the Façade Chart. Therefore, the panels used on the roof screens must substantially match the Flat Metal Panels used on the building. This is not clearly noted on the drawings and should be clarified on the sample board.

The Site Plan indicates that a brick dumpster enclosure and decorative fence with brick columns are propose. The Ordinance requires that the dumpster enclosure brick match the main building. It is recommended that brick matching the building also be used on the fence columns. In any case all proposed brick, metal panel and other colors should be represented on the sample board.

In summary, the proposed design appears to be in full compliance with Sections 2520 and 1603.9 of the Ordinance. A Section 9 Waiver is not required for this project. This recommendation is contingent upon submittal of a sample board indicating carefully coordinated harmonious earth tone colors that are consistent with Section 2520.2 of the Ordinance, and roof screens that substantially matching the Flat Metal Panels used on the building.

Notes to the Applicant:

1. The Façade Ordinance requires inspection(s) for all projects. Materials displayed on the approved sample will be compared to materials delivered to the site. It is the applicant's responsibility to request the inspection of each façade material at the appropriate time. Materials must be approved before installation on the building. Please use the Novi Building Department's Online Inspection Portal by following the link below. Please click on "Click here to Request an Inspection" under "Contractors", then click "Façade".

http://www.cityofnovi.org/Services/CommDev/OnlineInspectionPortal.asp.

If you have any questions regarding this project please do not hesitate to call.

Sincerely,

DRN & Architects PC

Douglas R. Necci, AIA

FIRE REVIEW



CITY COUNCIL

Mayor Bob Gatt

Mayor Pro Tem Dave Staudt

Terry K. Margolis

Andrew Mutch

Justin Fischer

Wayne Wrobel

Laura Marie Casey

City Manager Clay J. Pearson

Director of Public Safety Chief of Police David E. Molloy

Director of EMS/Fire OperationsJeffery R. Johnson

Assistant Chief of Police Victor C.M. Lauria

Assistant Chief of Police Jerrod S. Hart November 7, 2012

January 18, 2013

February 11, 2013 REVISED

TO: Barbara McBeth, Deputy Director of Community Development

Joseph Shelton, Fire Marshal

RE: Preliminary Site Plan - Detroit Metro Credit Union

SP#: JSP12-0069

PSP12-0041 PSP13-0005 **PSP13-0046**

Project Description:

New 2,985 Sq Ft. building (B-use group – Credit Union), on 3.8 total acre site.

Comments:

- CORRECTED on 1/18/13 Parking lot turning radius is now acceptable. Fire Dept. requires a 50' outside and 30' inside turning for fire apparatus. Approach lane from Main Street is acceptable; however NW corner and SW corners of building site are not.
- 2. CORRECTED on 2/11/13, (see note below) Only one Fire Hydrant location is shown on map, and is the existing hydrant for Main Street. Per IFC 2006 (sec 508.5.1), fire hydrants can be required by the fire code official to be located on main approach lanes if building is more than 400' from building. Also note: IFC 2006, Appendix C, section C104. Existing Hydrants shall not be considered if access roads do not connect causing obstructions. Landscape plans show obstructions. Added Hydrant is now listed on plans and is within 260' of building.

Recommendation:

The above plan has been reviewed and is now recommended for Approval.

Sincerely,

Andrew Copeland - Inspector II/CFPE City of Novi - Fire Dept.

cc: file

Novi Public Safety Administration 45125 W. Ten Mile Road Novi, Michigan 48375 248.348.7100 248.347.0590 fax

cityofnovi.org

APPLICANT RESPONSE LETTER



March 6, 2013

Barbara McBeth, AICP Deputy Director of Community Development City of Novi 45175 West Ten Mile Road Novi, MI 48375

Re:

Detroit Metropolitan Credit Union - New Facility

Case No.: JSP 12-69

Architects' Project No.: 2012.023

Dear Ms. McBeth:

Below are responses to preliminary review comments dated February 28, 2013. Items requiring action are noted below in italics.

Ordinance Requirements

5. <u>Shared Access Drive</u>: Please see attached Conceptual Development Plan for proposed layout of drives at adjacent properties.

Lighting Review Summary Chart

Lighting Plan (Section 2511.2.a.2): Hours of operation will be added to photometric plan.

Required Notes (Section 2511.3.b): Required notes will be added to photometric plan.

In response to the comments provided by Clear Zoning, Inc.

<u>Comment #5:</u> Barricade will be provided at north end of shared drive; to be removed at time of future development.

Comment #6: Owner's attorney is currently working on agreement regarding use of shared drive.

Comment #7: Curb elements will be dimensioned to back of curb per City standard.

Comment #9: Final site plan submittal will include Signing and Pavement Marking Plan depicting items noted in comments 9a through 9g.

Barbara McBeth, AICP City of Novi Project No. 2012.023 March 6, 2013 Page 2 of 2

Comment #10: Stop bar and word STOP will be removed from plan at north drive.

Comment #11: 45-degree taper will be added to east end of old walk on Main per comment.

Comment #15: Curb height at walk adjacent to parking will be reduced to 4" per comment.

Façade Review

A sample board indicating exterior materials and colors selected to comply with Section 2520.2 will be submitted prior to Planning Commission meeting.

Sincerely,

Mike Blanek, AlA

Associate

Attachment: Conceptual Development Plan

March 5, 2013

Mike Blanek, AIA Stucky Vitale Architects 27172 Woodward Avenue Royal Oak, MI 48067-0925

Re: Detroit Metro Credit Union JSP#12-69



JAMES C. SCOTT & ASSOCIATES, INC.

300 E. Long Lake Rd., Suite 120 Bloomfield Hills, Mt 48304 (p) 248/646/6864 (f) 248/646/4838 www.jcsa-la.com

Mike.

The following are my responses to the comments provided by the City of Novi (dated 2/21/13) and Environmental Consulting & Technology, Inc. (dated 2/27/13) during their Preliminary Site Plan reviews of the Landscape Plans for the above referenced project. Please note that only those items requiring action are addressed below.

In response to the comments provided by the **City of Novi** (my responses are in *italics*):

Parking Landscape (Sec. 2509.3.c)

Item #3: Please show snow storage areas on the plan as required. Snow Load areas are indicated on Sheet L-1.

Planting Notations and Details (LDM)

Item #2: A note on Sheet L-1 states that the landscape contractor shall maintain the landscape for a period of 1 year. The ordinance requires a guaranteed maintenance period of two years. Please adjust the note accordingly.

This note has been adjusted as requested. The same note on Sheet L-3 has also been adjusted.

Irrigation (sec. 2509 3.f.(6)(b))

Item #1: An Irrigation Plan must be provided upon final stamping set submittal. Please provide a cost estimate for the irrigation system. An estimate for the irrigation system has been included in the Cost Estimate on Sheet L-3. An irrigation system will be provided for the stamping set, as requested.

General

Item #1: Please verify that all underground and overhead utilities, both existing and proposed, are shown on the landscape plan.

All utilities have been verified and included on the Landscape Plan, Sheet L-1.

Item #2: Please provide details on the proposed signage. Please refer to the architectural plans for signage detailing.

In response to the comments provided by **Environmental Consulting & Technology**, **Inc.** (my responses are in *italics*):

<u>Comment #1</u>: The applicant will be required to provided 4 woodland replacement credits for the removal of this (40" landmark) tree. Four replacement trees are shown on the landscape plan (Sheet L-1) and the corresponding credits are included in the Planting Calculations presented on Sheet L-2.

<u>Comment #2:</u> Several items must be provided in subsequent Plan submittals in order to comply with the site plan standards outlined in the updated Chapter 37 Woodland Protection Ordinance. The following information should be provided on subsequent Plans:

- a. Condition and/or species of the existing trees;

 Please refer to the revised Topographic Survey, Sheet C-1.
- b. The number of replacement credits that will be provided on site; Four replacement trees are shown on the landscape plan (Sheet L-1) and the corresponding credits are included in the Planting Calculations presented on Sheet L-2.
- c. The species/ quantities/ sizes and locations of replacement trees; Four replacement trees are shown on the landscape plan (Sheet L-1). The species, quantities and sizes of these four trees are defined in the Proposed Planting Schedule and Cost Estimate shown on Sheet L-3.

Please let me know if you have any questions.

Sincerely,

JAMES C. SCOTT & ASSOCIATES, INC.

Ben Weaver



EAST 22556 Gratiot Avenue Eastpointe MI 48021-2312 (586) 772-2222 Fax (586) 772-4048

(800) 295-7222

WEST 900 E Stadium Ann Arbor, Mi 48104-4365 (734) 994-0888 Fax. (734) 994-566? (800) 433-6133

March 6, 2013

City of Novi 45175 W. Ten Mile Road Novi, Michigan 48375

RE:

DMCU Nevi

Engineering Review - JSP12-0069

Dear Adam,

Kem-Tee & Associates is in receipt of the City Engineering Review comments dated February 28, 2013. We acknowledge the comments and they will be addressed on the Final Site Plan drawings. The following items will be shown on the Final Site Plan drawings:

- 1. City standard notes
- 2. City standard detail sheets
- 3. Water main design and permitting
- 4. Sanitary sewer easement
- 5. Profile of sanitary sewer
- 6. Sanitary sewer basis of design
- 7. Sanitary design and permitting
- 8. Profiles of storm system
- 9. Paving and grading plans
- 10. Offsite easements
- 11. Cost Estimate

Please contact our office should you have any questions or require additional information.

Sincerely.

Matthew D. Kuchn, PE

Keni-Tec & Associates

DETROIT METROPOLITAN ODDITH TANGET

NEW FACILITY
NOVI RD. + MAIN STREET
NOVI, MI, 48375

<u>OWNER</u>

DETROIT METROPOLITAN CREDIT UNION 1480 EAST JEFFERSON DETROIT, MI 48207 (586) 263-8800

ARCHITECT

STUCKY VITALE ARCHITECTS 27172 WOODWARD AVENUE ROYAL OAK, MICHIGAN 48067 (248) 546-6700

CML ENGINEER

KEM-TEC 22556 GRATIOT AVENUE EASTPOINTE, MI 48021 (248) 772-2222

LANDSCAPE ARCHITECT

JAMES C. SCOTT + ASSOC., INC. 300 E. LONG LAKE RD. SUITE 120 BLOOMFIELD HILLS, MI 48304 (248) 646-6564

PLUMBING FIXTURE COUNT:

PROJECT DATA

BUILDING CODE AUTHORITY: NOVI, MICHIGAN

TYPE OF CONSTRUCTION:

- TYPE VB

 WOOD BLOCKING, TRUSSES AND ROOF
 SHEATHING MAY BE WITHOUT FIRE-RETRADANT
 TREATMENT
- ALL WIRING AND PIPING SHALL BE PLENUM RATED OR ENCLOSED IN REQUIRED CONDUIT.

USE GROUP: B - BUSINESS

OCCUPANT LOAD: BUILDING SF = 3,000 GSF

100 SF / PERSON = 30
PLUMBING FIXTURE COUNTS:

SEE ADJACENT TABLE

APPLICABLE CODES: BUILDING CODE

ALSO KNOWN AS THE "MICHIGAN BUILDING CODE"
2009 MICHIGAN BUILDING CODE (MBC) AS AMENDED

MECHANICAL CODE ALSO KNOWN AS TH

ALSO KNOWN AS THE "MICHIGAN MECHANICAL CODE" 2009 MICHIGAN MECHANICAL CODE AS AMENDED

PLUMBING CODE

ALSO KNOWN AS THE "MICHIGAN PLUMBING CODE" 2009 MICHIGAN PLUMBING CODE AS AMENDED

ELECTRICAL CODE

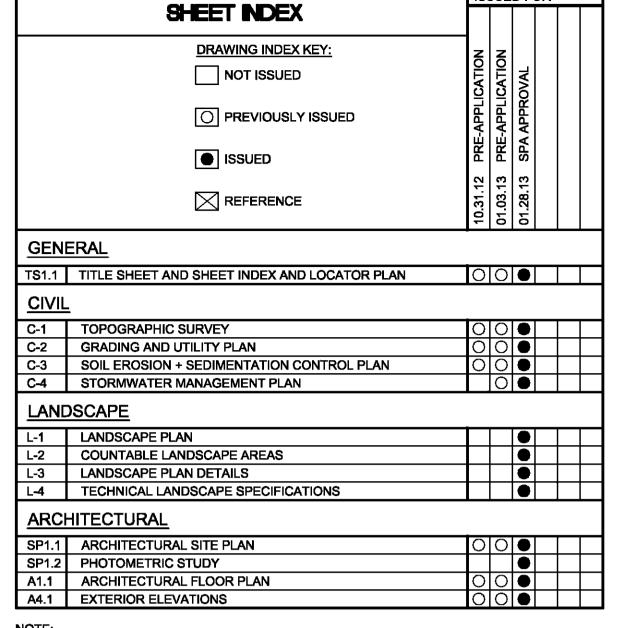
ALSO KNOWN AS THE "MICHIGAN ELECTRICAL CODE" 2008 NATIONAL ELECTRIC CODE (NEC) AS AMENDED & MICHIGAN AMMENDMENTS PART 8.

ENERGY CODE

2009 UNIFORM ENERGY CODE

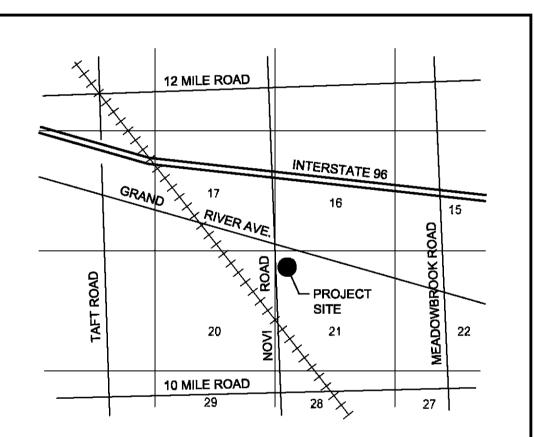
BARRIER FREE REQUIREMENTS AMERICANS WITH DISABILITIES ACT (ADA) MBC-2009, CHAPTER 11

ICC / ANSI 117.1 - 2006, EXCEPT SECTION 611 & 707

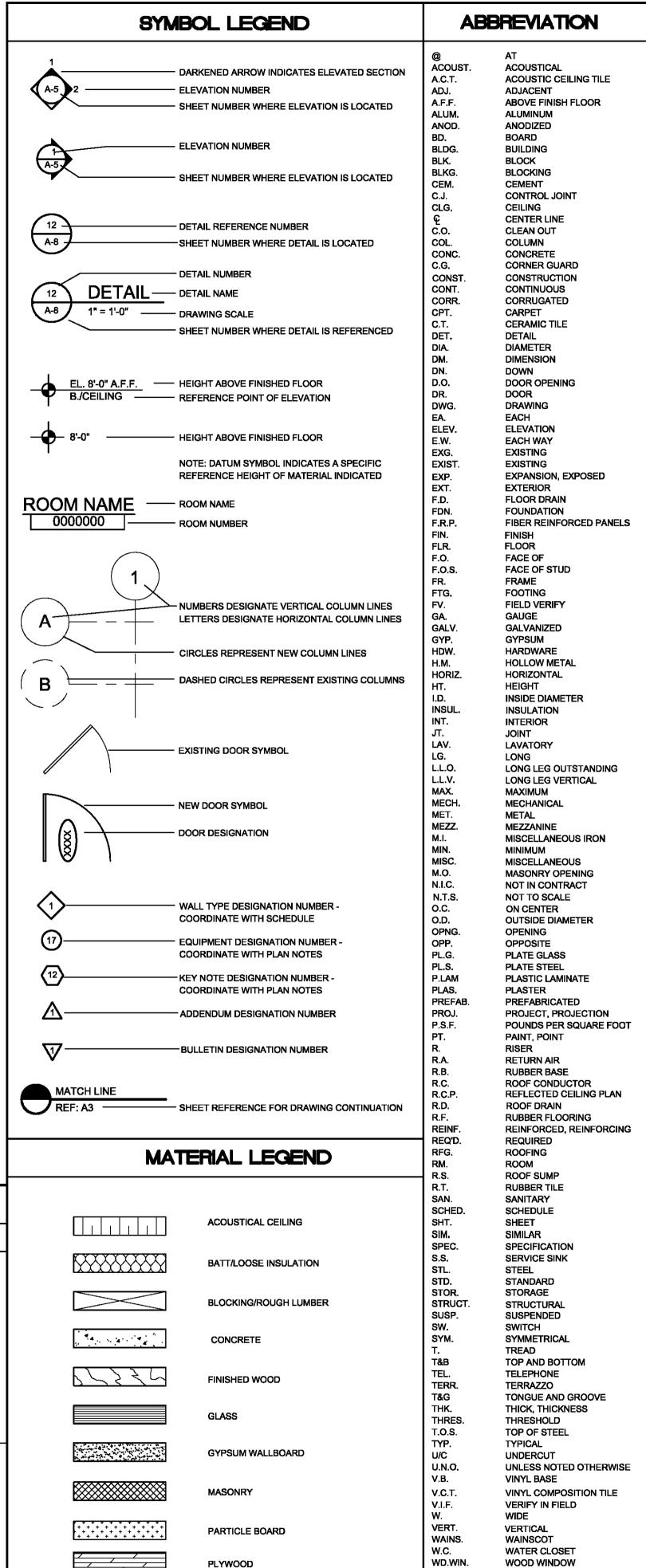


ISSUED FOR

THESE CONSTRUCTION DRAWINGS WERE PREPARED FOR COMPLIANCE WITH THE MICHIGAN CONSTRUCTION CODES IN EFFECT AT THE TIME OF PERMIT SUBMITTAL. ALL ENGINEERS, CONTRACTORS AND SUPPLIERS INVOLVED WITH THIS PROJECT SHALL COMPLY WITH THE SAME CODES, ISSUED AND APPROVED CODE MODIFICATIONS AND/OR CITY CODE AUTHORITY CONSTRUCTION BOARDS OF APPEALS RULINGS AND WHENEVER REQUIRED SHALL PROVIDE SHOP DRAWINGS AND SUBMITTALS CLEARLY DESCRIBING COMPLIANCE TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE FOR REVIEW AND APPROVAL.









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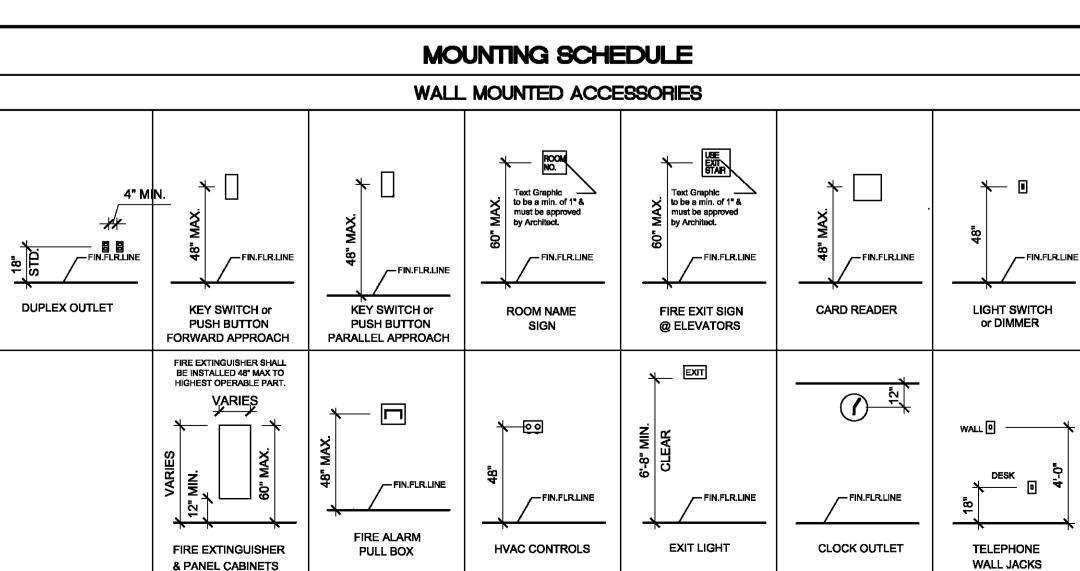
DETROIT METROPOLITAN
CREDIT UNION NEW FACILITY
NOVI RD + MAIN STREET
NOVI, MI 48375
SECTION 23

legued for :

PRE-APPLICATION
MEETING 10.31.12
PRE-APPLICATION
RESUBMISSION 01.03.13
SPA APPROVAL 01.28.13

A. OCCUPANCY (EXCLUDES ACCESSORY PARKING) B. FIXTURE RATIO 2009 MICHIGAN PLUMBING SERVICE DRINKING WC URINAL*** **FOUNTAINS** TABLE 2902.1 SINKS 1:50 1:50 <67% OF WC'S 1:100 C. FIXTURES REQUIRED D. ACTUAL FIXTURES COMBINED **NEW COUNT** 2 (INCLUDING 1-BARRIER FREE)

*** MPC 419.2: URINALS MAY NOT BE SUBSTITUTED FOR MORE THAN 50% OF THE REQUIRED WATER CLOSETS.



Drawn by : RJB Checked by : JAV, MJB

Sheet Title:
TITLE SHEET,
SHEET INDEX, AND
LOCATOR PLAN

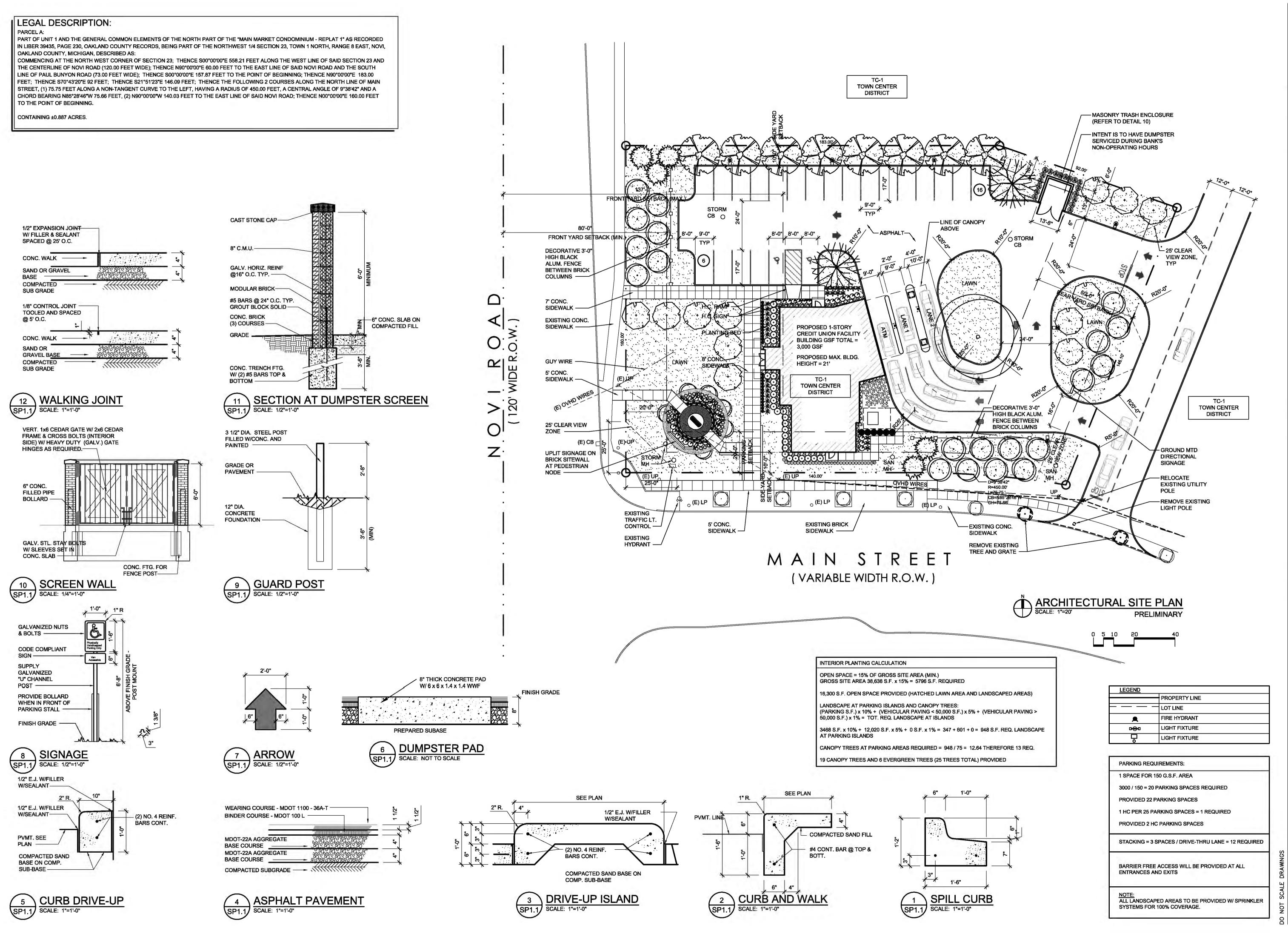
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WEIGHT

W.W.F.

WELDED WIRE FABRIC

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CREDIT UNION NEW FACILITY
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SECTION 23

leaued for :

PRE-APPLICATION
MEETING 10.31.12
OWNER REVIEW 11.21.12
PRE-APPLICATION
RESUBMISSION 01.03.13
COORDINATION 01.25.13
SPA APPROVAL 01.28.13

Drawn by : RJB Checked by : JAV, MJB

Sheet Title:

.: ARCHITECTURAL

SITE PLAN -

PRELIMINARY

Project No. :

2012.023

Sheet No.: SP1.1

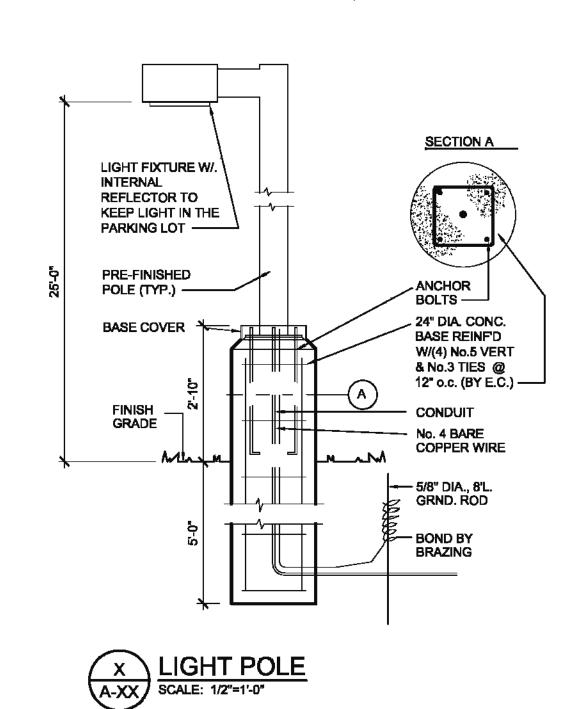
LUMINAIRE SCHEDULE									
Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
	LA	6	LITHONIA #DSX1 LED 2 30B700/40K FT MVOLT	DSX1 LED WITH 2 LIGHT ENGINES, 700mA DRIVER, 4000K LEDS, TYPE FT OPTICS	ONE 142.7-WATT LED, AIMED DOWN POS.	DSX1_LED_2_ 30B700_40K_F T_MVOLT.ies	Absolute	0.90	142.7
0	LE	2	GOTHAM #EVO 27/10 6AR 120	6" LED DOWNLIGHT, 2700K, 1000 LUMENS, STANDARD DISTRIBUTION WITH CLEAR SEMI SPECULAR REFLECTOR	LED	EVO_27_10_6 AR_120.ies	Absolute	0.90	18.4
0	G	8	LITHONIA #KBR6 50M R5	6 IN ROUND BOLLARD	ONE 50 WATT CLEAR E- 17 METAL HALIDE, VERTICAL BASE-DOWN POSITION.	94033107.IES	3400	0.72	72

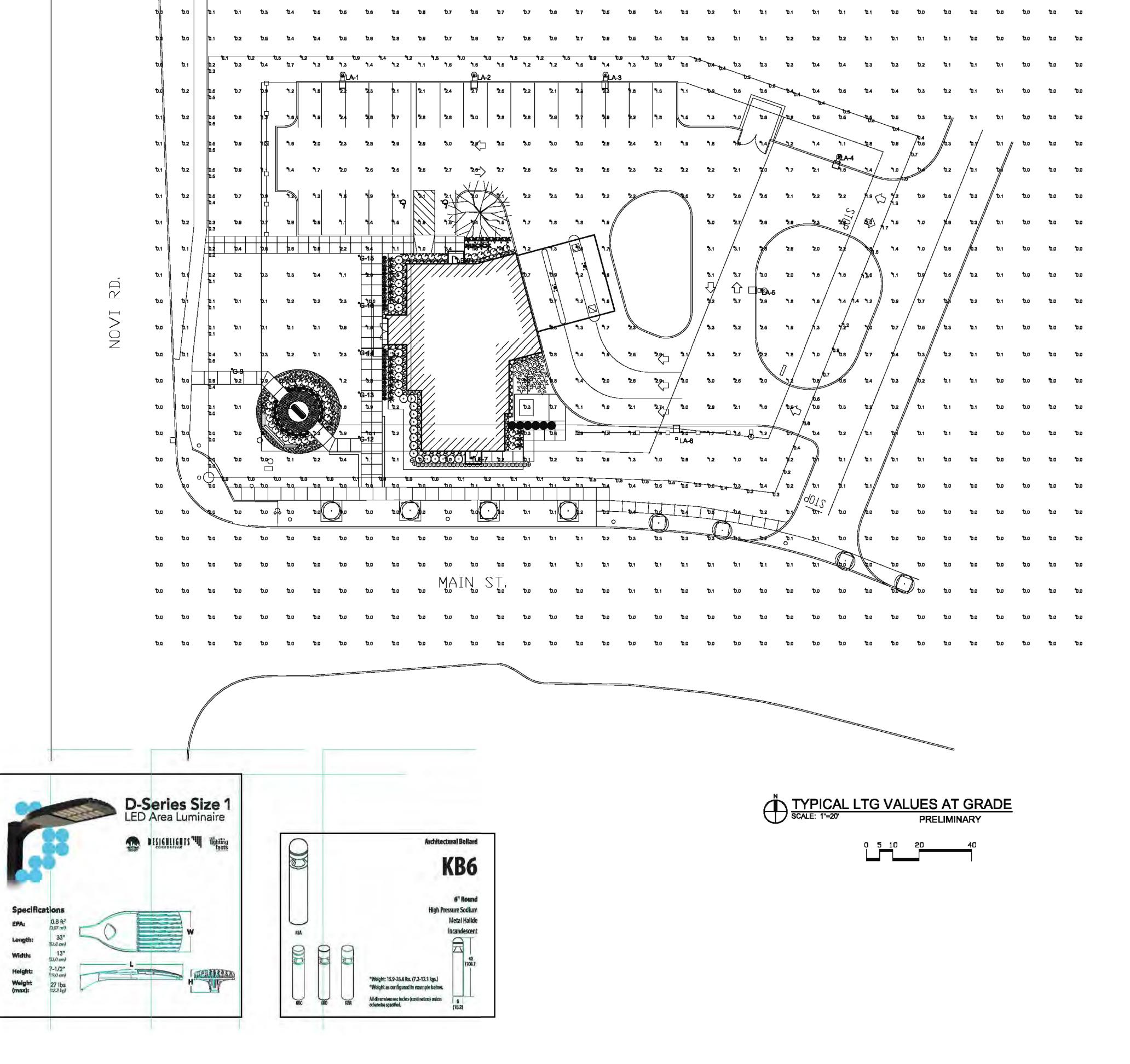
STATISTICS						
Description	Symbol	Avg	Mex	Min	Mex/Min	Avg/Min
OVERALL LTG VALUES	+	0.7 fc	11.6 fc	0.0 fc	N/A	N/A
PARKING LOT	ж	2.2 fc	3.7 fc	0.7 fc	5.3:1	3.1:1
PROPERTY LINE	+	0,6 fc	1,7 fc	0,0 fc	N/A	N/A

LUMINAIRE LOCATIONS									
Location									
No.	Label	x	Y	MH	Orientation	Tilt			
1	LA	51.0	152.9	25.0	180.0	0.0			
2	LA	101.0	152.9	25.0	180.0	0.0			
3	LA	150.8	152.8	25.0	180.0	0.0			
4	LA	239.9	122.2	25.0	198.0	0.0			
5	LA	210.5	71.0	25.0	-89.9	0.0			
6	LA	178.0	14.8	25.0	-0.6	0.0			
7	LE	100.8	7.8	8.3	0.0	0.0			
8	Œ	94.1	83.2	8.3	0.0	0.0			
9	G	8.9	41.2	3.0	0.0	0.0			
10	G	29.2	34.3	3.0	0.0	0.0			
11	G	43.2	20.5	3.0	0.0	0.0			
12	G	57.2	15.4	3.0	0.0	0.0			
13	G	57.2	32.3	3.0	0.0	0.0			
14	G	57.2	48.3	3.0	0.0	0.0			
15	G	57.2	84.1	3.0	0.0	0.0			
16	G	57.2	6 6.1	3.0	0,0	0.0			

- 1. SEE MH COLUMN OF LUMINAIRE LOCATIONS FOR MOUNTING HEIGHTS.
- 2. SEE LUMINAIRE SCHEDULE FOR LIGHT LOSS FACTORS. 3. CALCULATIONS ARE SHOWN IN FOOTCANDLES AT GRADE.

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. GBA DOES NOT ACT AS THE CIVIL OR STRUCTURAL ENGINEER AND DOES NOT DETERMINE BASE REQUIREMENTS. POLES SPECIFICATIONS ARE NOT INCLUDED WITH EXTERIOR LIGHTING PHOTOMETRIC ANALYISIS. 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 COMPLIANCE.





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DETROIT METROPOLITAN **CREDIT UNION -**NEW FACILITY NOVI RD + MAIN STREET NOVI, MI 48375 SECTION 23

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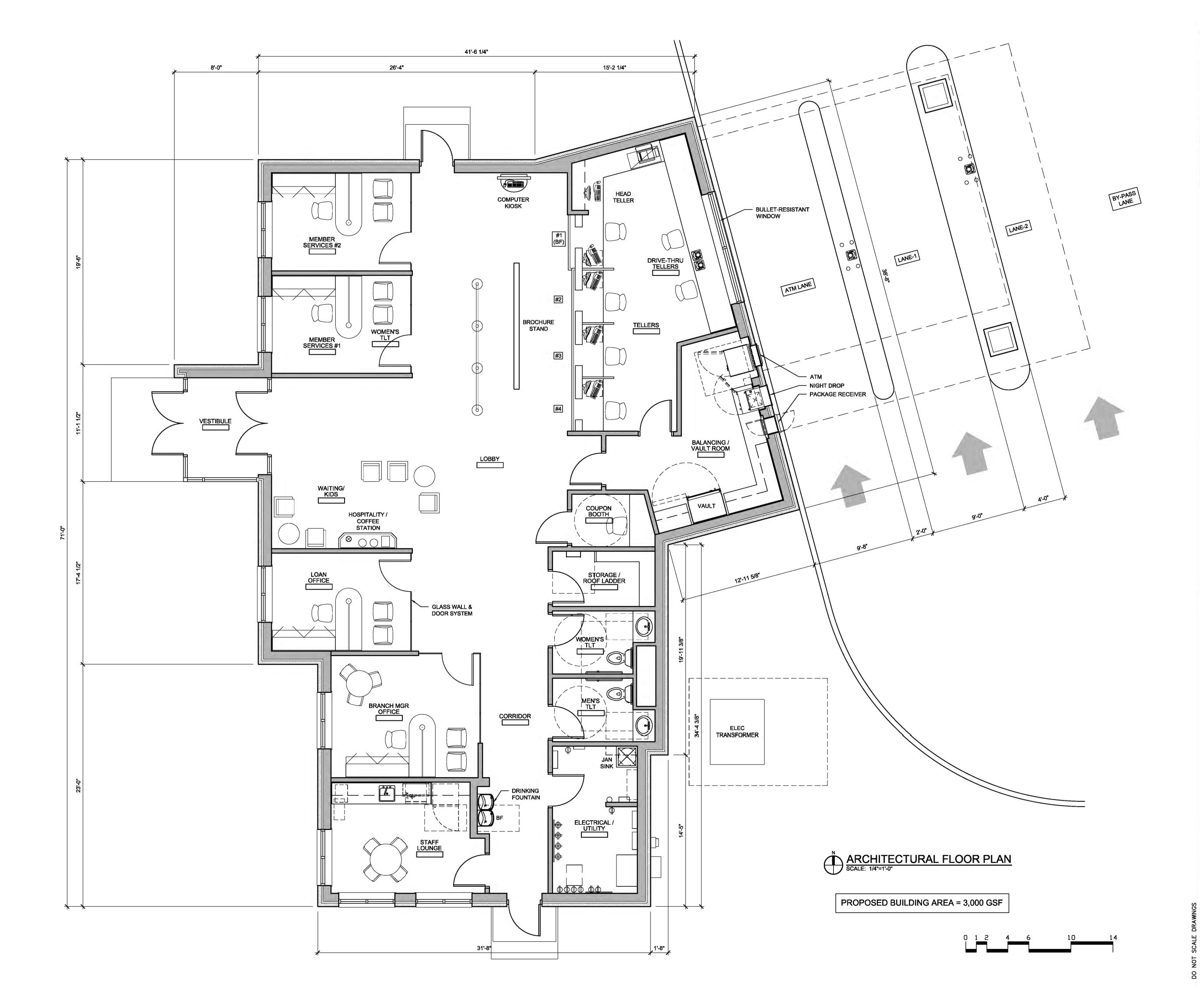
SPA APPROVAL 01.28.13

Drawn by : MM/KJS Checked by :

Sheet Title : PHOTOMETRIC STUDY (GASSER BUSH ASSOCIATES)

Project No. : 2012.023

Sheet No. :



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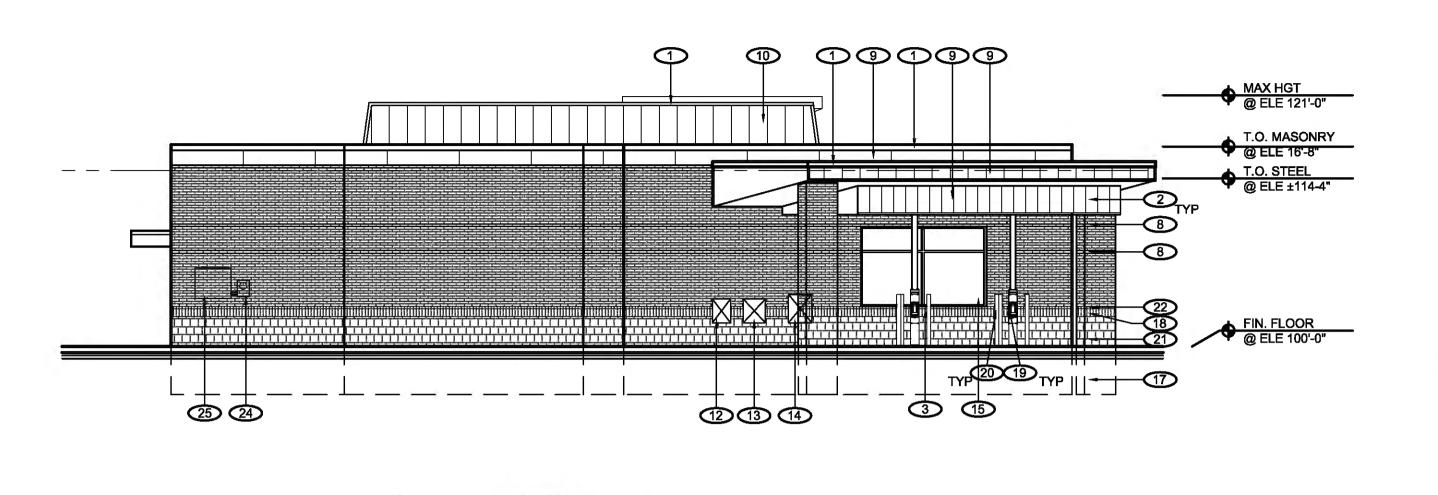
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Sheet Title :
ARCHITECTURAL
FLOOR PLAN

Project No. : 2012.023

Sheet No. :

heet No. :
A1.1



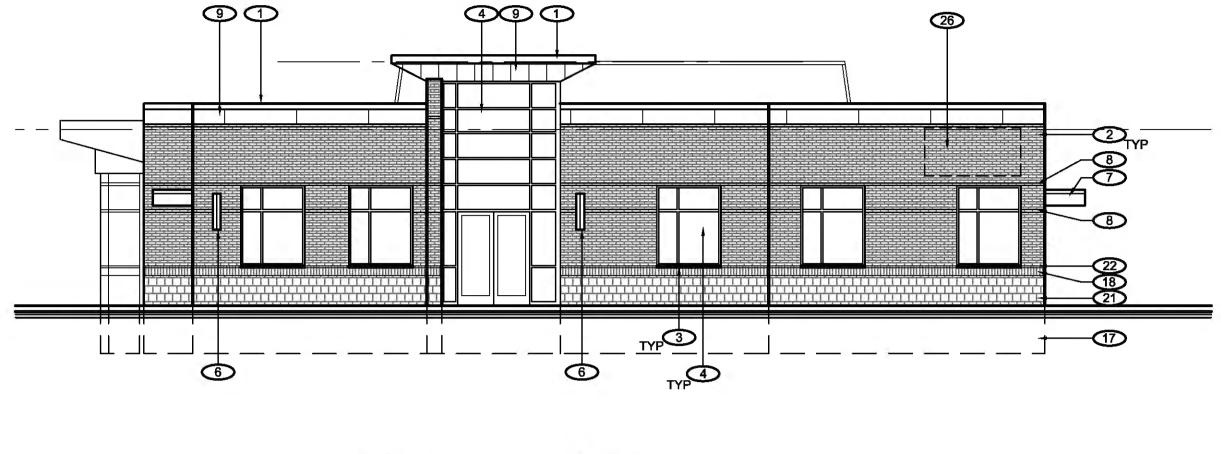
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23

10 1

90

3 3



WEST ELEVATION

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

ELEVATION KEY NOTES:

- 1. PREFINISHED METAL COPING SYSTEM
- 2. BRICK #1 RUNNING BOND; TYPICAL
- 3. BRICK #2 ROWLOCK SILL (MODULAR)
- 4. STOREFRONT SYSTEM, REFER TO WINDOW TYPES
- 5. AUTOMATIC ENTRANCE DOOR PUSH-BUTTON
- 6. WALL SCONCE LIGHT FIXTURE
- 7. PREFINISHED METAL CLAD CANOPY
- 8. RECESSED BRICK #1 STRETCHER COURSE
- 9. PREFINISHED FLUSH METAL PANEL SYSTEM
- 10. PREFINISHED METAL PANEL ROOF TOP EQUIPMENT SCREEN
- 11. LANE INDICATOR SIGNS, SUSPENDED
- 12. PACKAGE RECEIVER M.O.; PAINTED

13. NIGHT DEPOSIT M.O.

- 14.) ATM
- 15 BULLET-RESISTANT WINDOW BY OTHERS; CONTRACTOR TO COORDINATE INSTALL
- 16.) WALL SIGN INDICATING CLEARANCE
- (17) CONCRETE FOUNDATION @ 42" BELOW FIN GRADE; MIN
- 18. BRICK #2 SOLDIER COURSE (MODULAR)
- 19. VAT SYSTEM BY OTHERS; CONTRACTOR TO COORDINATE INSTALLATION
- 20 CONC. FILLED, PAINTED STEEL BOLLARD
- 21. BRICK #2 RUNNING BOND (QUAD) 22. BRICK #2 - ROWLOCK COURSE (MODULAR)
- 23. PAINTED, GALV., H.M. DOOR AND FRAME AS SCHEDULED
- 24. ELECTRICAL SERVICE METER PAINT TO MATCH ADJ .BRICK COLOR
- 25. CT CABINET PAINT TO MATCH ADJ BRICK COLOR
- 26. WALL SIGN



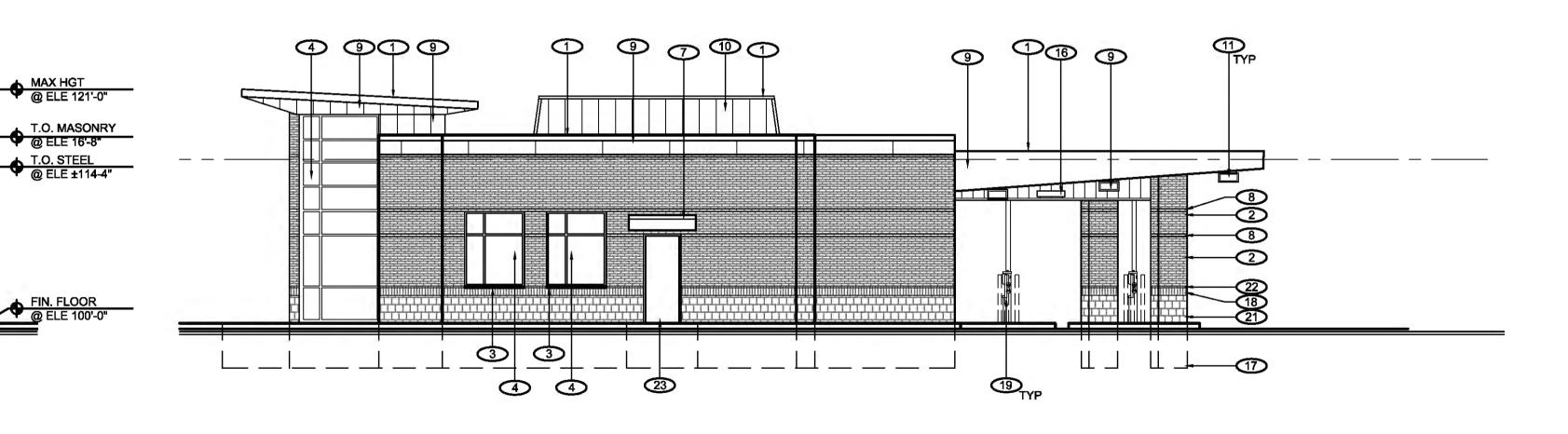
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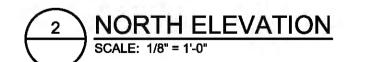
Project :

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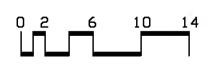


EAST ELEVATION

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

9 9 1





FACADE MATERIAL COVERAGE	
BRICK	63%
GLASS / STOREFRONT	11%
PREFIN. FLUSH METAL PANEL / COPING	18%
PREFIN. METAL EQUIPMENT SCREEN	8%

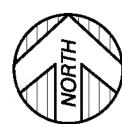
Drawn by : RJB Checked by : JAV, MJB Sheet Title:

EXTERIOR ELEVATIONS

Project No. : 2012.023

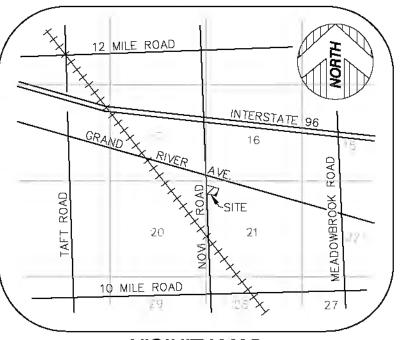
Sheet No. :







(IN FEET) 1 inch = 20 ft.



VICINITY MAP (NOT TO SCALE)

BENCHMARK

SITE BENCHMARK: TOP ARROW ON HYDRANT AT THE NORTHEAST CORNER OF NOVI ROAD AND MAIN STREET, ELEVATION = 916.81 N.A.V.D. 88 DATUM

WETLANDS

NO WETLANDS EXIST ON SITE.

•	FOUND MONUMENT (AS NOTED)
(R&M)	RECORD AND MEASURED DIMENSION
(R)	RECORD DIMENSION
(M)	MEASURED DIMENSION
× <u>000.0</u>	GROUND POINT
(E)	ELECTRIC MANHOLE
	ELECTRIC PANEL
٥	UTILITY POLE
Q	GAS METER
①	TELEPHONE MANHOLE
	TELEPHONE RISER
S	SANITARY MANHOLE
\oplus	ROUND CATCH BASIN
	SQUARE CATCH BASIN
(STORM DRAIN MANHOLE
X	FIRE HYDRANT
W	WATER GATE MANHOLE
<u>®</u> ≥	WATER VALVE
	BOLLARD
ϕ	LAMP POST
0	SINGLE POST SIGN
0.0	DOUBLE POST SIGN
12"	TREE WITH DIAMETER IN INCHES
	PARCEL BOUNDARY LINE
	BUILDING
	CENTERLINE DITCH
	CONCRETE CURB
	EDGE OF CONCRETE (CONC.)
	EDGE OF ASPHALT (ASPH.)
	EDGE OF BRICK
	EDGE OF GRAVEL
	WALL (AS NOTED)

· -- OVERHEAD UTILITY LINE

SANITARY LINE

STORM LINE



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Civil Engineer:



PROFESSIONAL ENGINEERS PROFESSIONAL SURVEYORS 22556 GRATIOT AVENUE EASTPOINTE, MI 48021 (586)772-2222 PHONE `(586)772-4048 FAX

KTA PROJECT NO. 12-00592

Project :

DETROIT METROPOLITAN CREDIT UNION -NEW FACILITY NOVI RD + MAIN STREET NOVI, MI 48375



Issued for :

PRE APPLICATION MEETING 10.31.12 PRE APPLICATION RESUBMISSION 01.03.13 SPA APPROVAL 01.28.13

UTILITY WARNING UNDERGROUND UTILITY LOCATIONS AS SHOWN ON THE PLAN, WERE OBTAINED FROM UTILITY



THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF AND/OR RELOCATION OF ALL UTILITIES THAT MAY INTERFERE WITH CONSTRUCTION.

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWNGS. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES OTHER THAN THE STRUCTURE INVENTORY SHOWN HEREON. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, FURTHER, CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF ANY NEARBY STRUCTURES, OF ANY PERSONS.

Drawn by : DEH

Checked by : MDK

Sheet Title: **TOPOGRAPHIC** SURVEY

2012.023

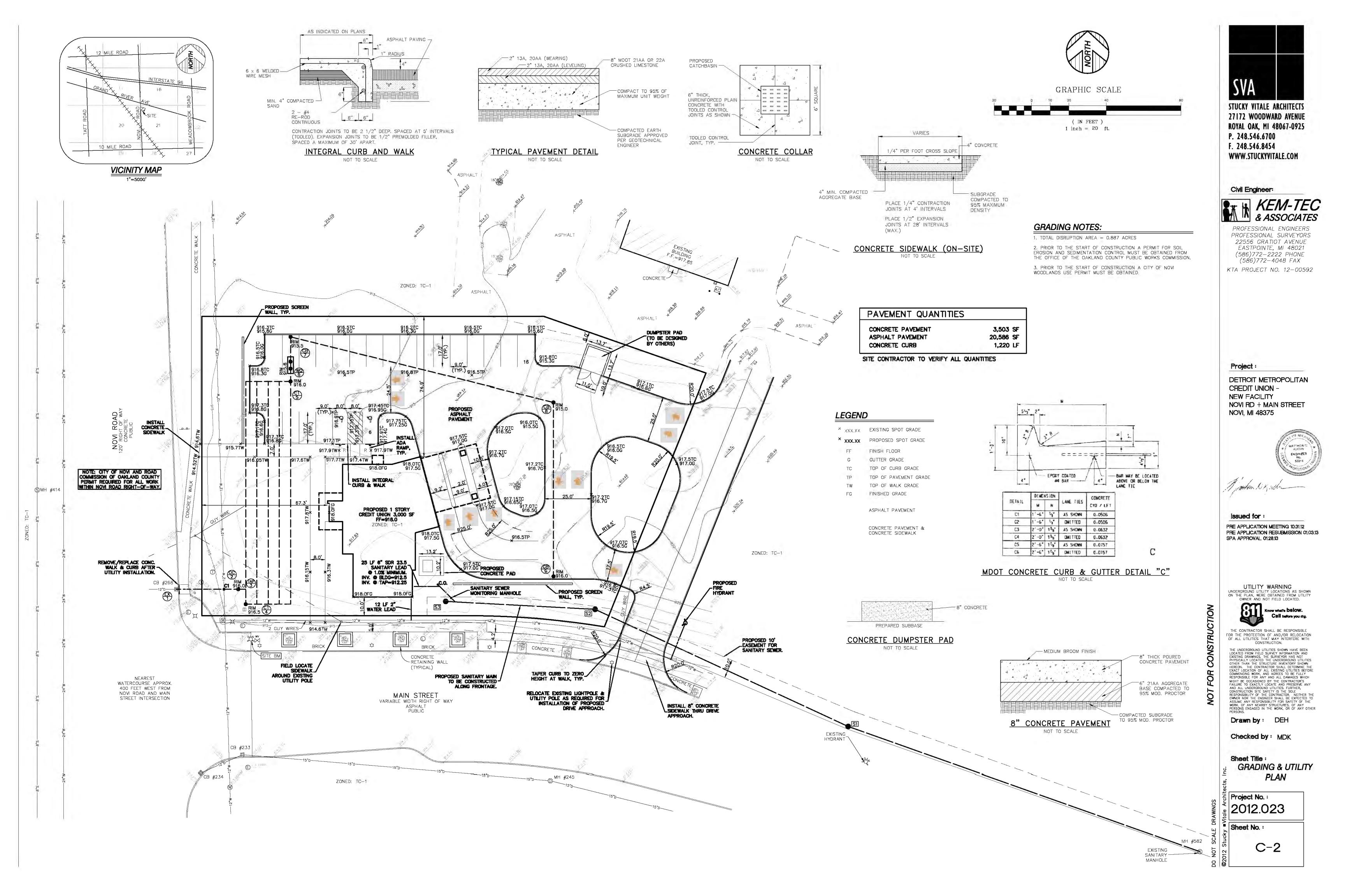
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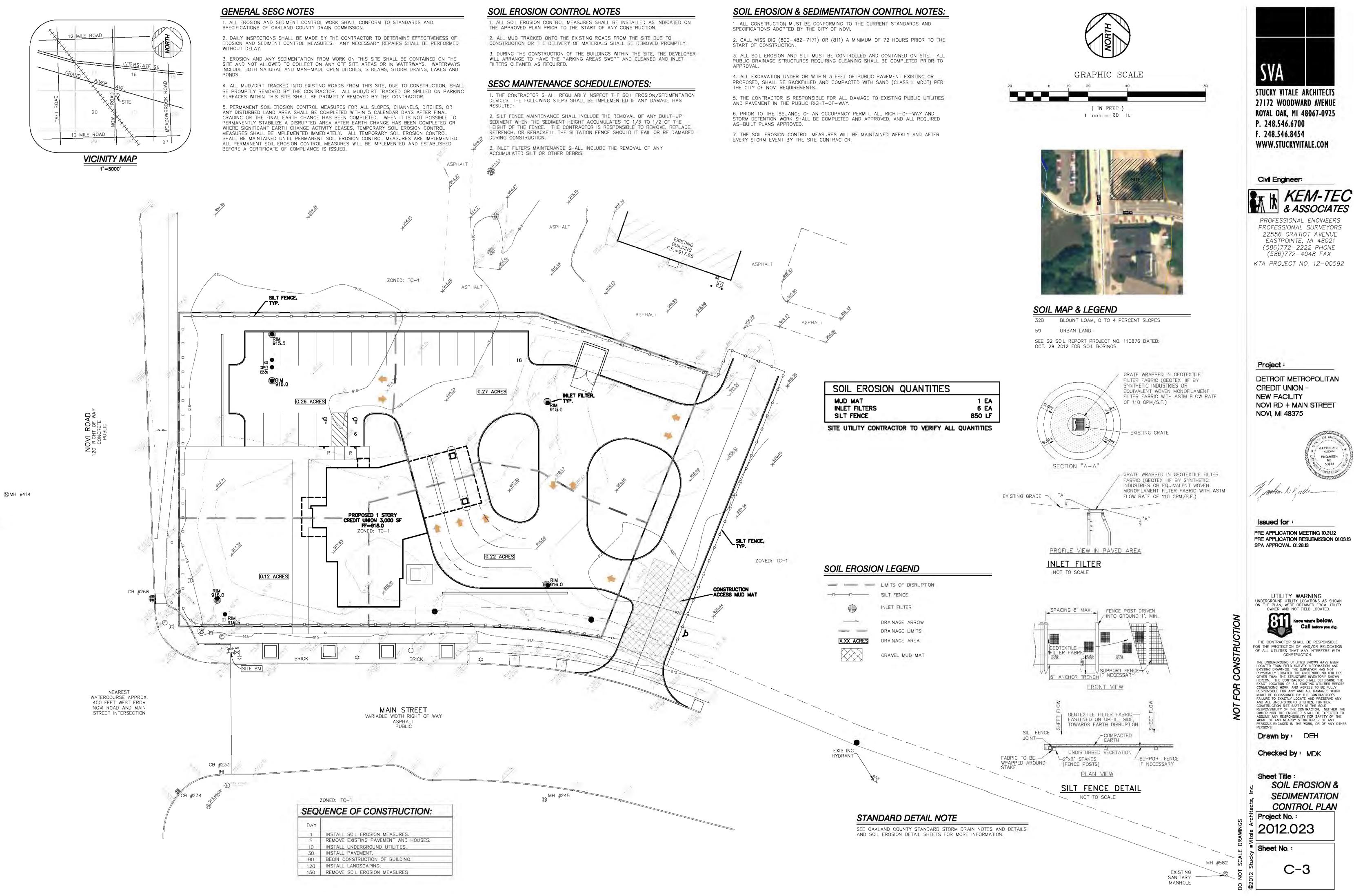
MH #582

EXISTING SANITARY —— MANHOLE

Project No. :

C-1





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KTA PROJECT NO. 12-00592

DETROIT METROPOLITAN NOVI RD + MAIN STREET



PRE APPLICATION MEETING 10.31.12

UTILITY WARNING

Know what's below. Call before you dig

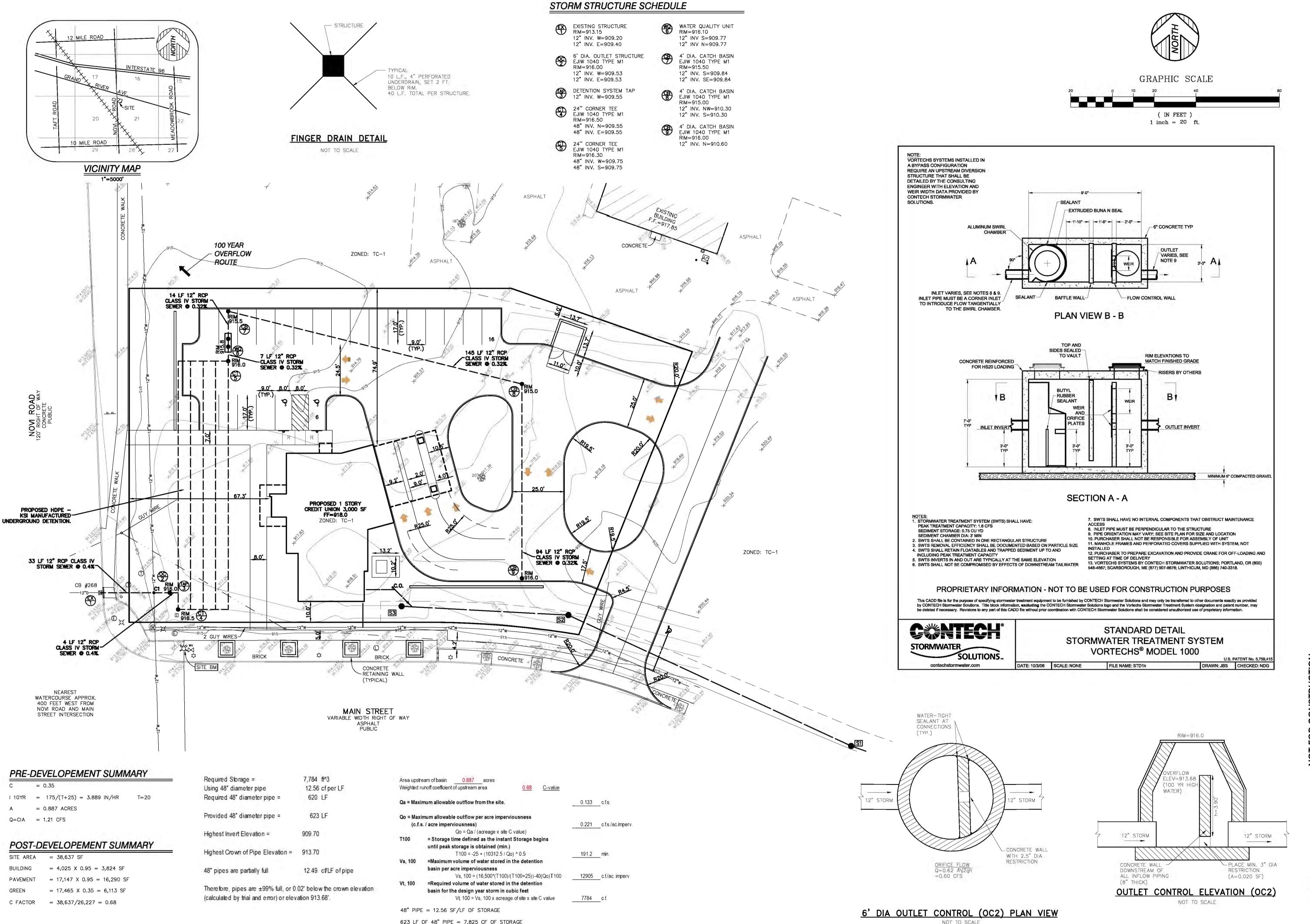
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WORK, OF ANY NEARBY STRUCTURES, OF ANY
DEDECARD THE WORK, OF ANY OF THE WORK, OF ANY NEARBY STRUCTURES, OF ANY PERSONS ENGAGED IN THE WORK, OR OF ANY OTHER

Drawn by : DEH

Checked by : MDK

SOIL EROSION & SEDIMENTATION



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PROFESSIONAL ENGINEERS

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Project:

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UTILITY WARNING UNDERGROUND UTILITY LOCATIONS AS SHOWN ON THE PLAN, WERE OBTAINED FROM UTILITY

OWNER AND NOT FIELD LOCATED. Know what's below. Call before you dig.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF AND/OR RELOCATION OF ALL UTILITIES THAT MAY INTERFERE WITH

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES OTHER THAN THE STRUCTURE INVENTORY SHOWN HEREON. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S

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Drawn by: DEH

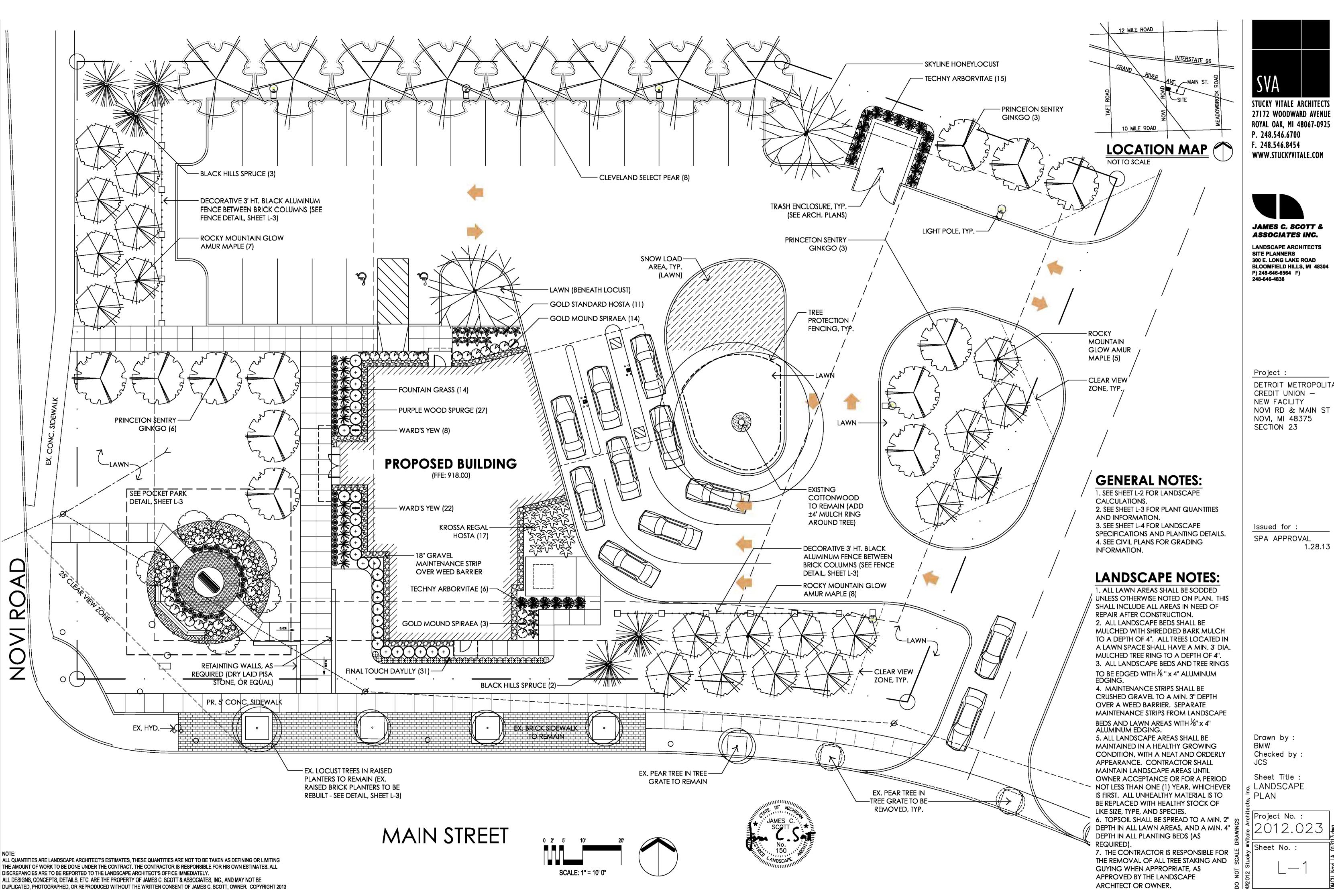
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Sheet Title :

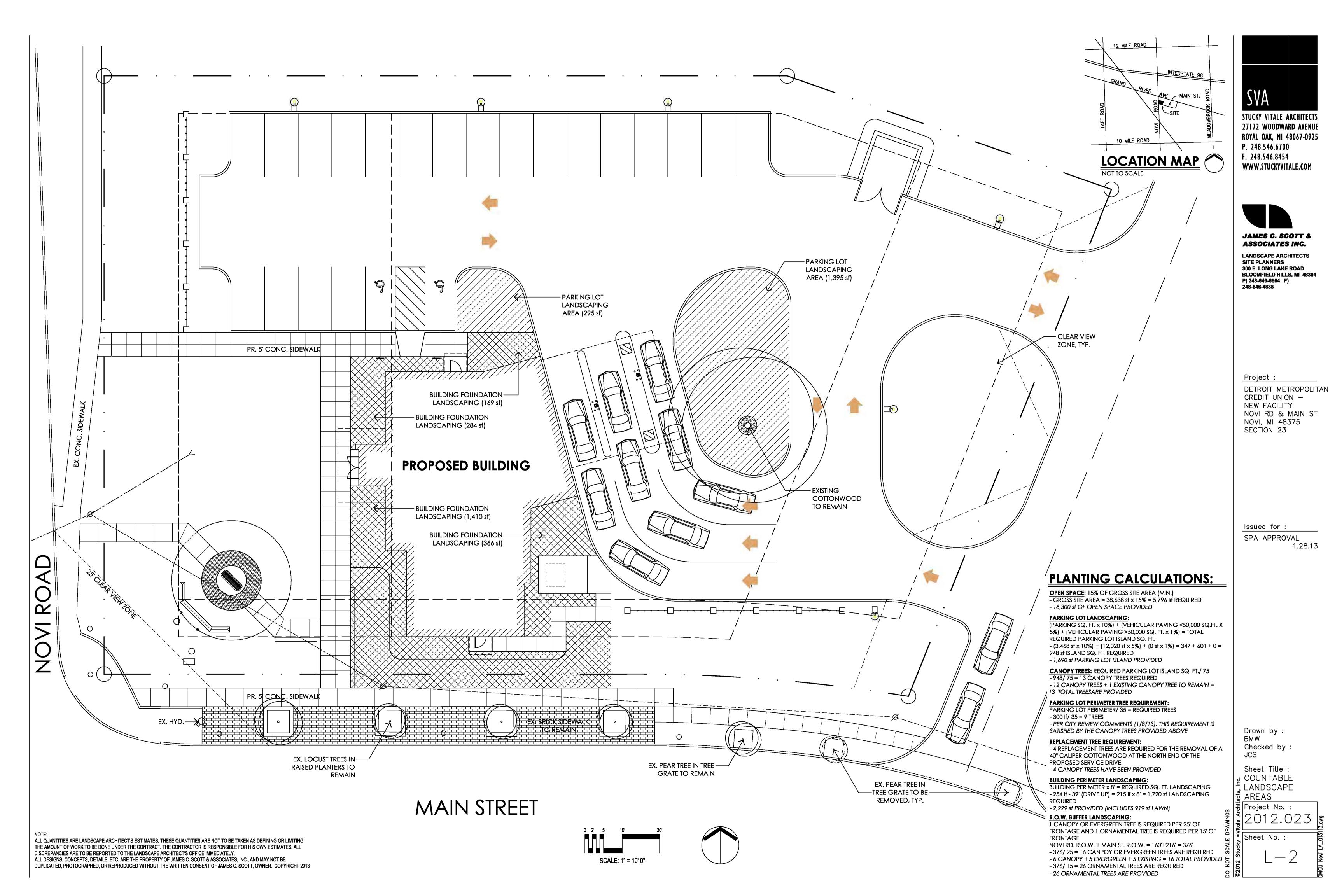
STORM WATER MANAGEMENT PLAN

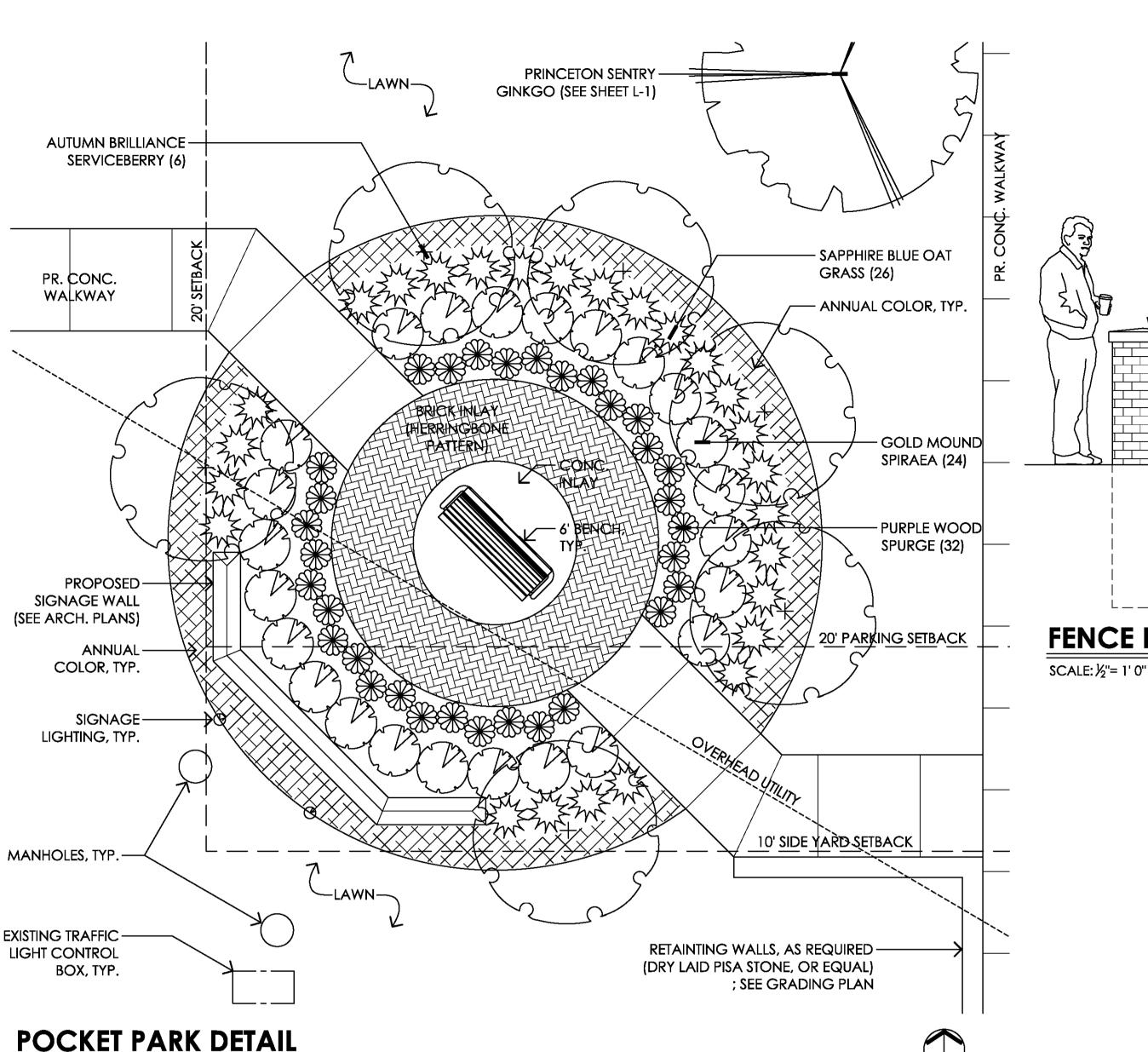
Project No. :

2012.023 Sheet No.:



DETROIT METROPOLITAN





LANDSCAPE NOTES:

SCALE: ½" = 1' 0"

1. ALL LAWN AREAS SHALL BE SODDED UNLESS OTHERWISE NOTED ON PLAN. THIS SHALL INCLUDE ALL AREAS IN NEED OF REPAIR AFTER CONSTRUCTION.

2. ALL LANDSCAPE BEDS SHALL BE MULCHED WITH SHREDDED BARK MULCH TO A DEPTH OF 4". ALL TREES LOCATED IN A LAWN SPACE SHALL HAVE A MIN. 3' DIA.

MULCHED TREE RING TO A DEPTH OF 4". 3. ALL LANDSCAPE BEDS AND TREE RINGS TO BE EDGED

WITH ½ " x 4" ALUMINUM EDGING. 4. MAINTENANCE STRIPS SHALL BE CRUSHED GRAVEL TO A MIN. 3" DEPTH OVER A WEED BARRIER. SEPARATE MAINTENANCE STRIPS FROM LANDSCAPE BEDS AND LAWN

AREAS WITH 1/8" x 4" ALUMINUM EDGING. 5. ALL LANDSCAPE AREAS SHALL BE MAINTAINED IN A HEALTHY GROWING CONDITION, WITH A NEAT AND ORDERLY APPEARANCE. CONTRACTOR SHALL MAINTAIN LANDSCAPE AREAS UNTIL OWNER ACCEPTANCE OR FOR A PERIOD NOT LESS THAN ONE (1) YEAR, WHICHEVER IS FIRST. ALL UNHEALTHY MATERIAL IS TO BE REPLACED WITH HEALTHY

STOCK OF LIKE SIZE, TYPE, AND SPECIES. 6. TOPSOIL SHALL BE SPREAD TO A MIN. 2" DEPTH IN ALL LAWN AREAS, AND A MIN. 4" DEPTH IN ALL PLANTING BEDS (AS REQUIRED).

7. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL TREE STAKING AND GUYING WHEN APPROPRIATE, AS APPROVED BY THE LANDSCAPE ARCHITECT OR OWNER.

IRRIGATION NOTES

FROM LAWN AREAS.

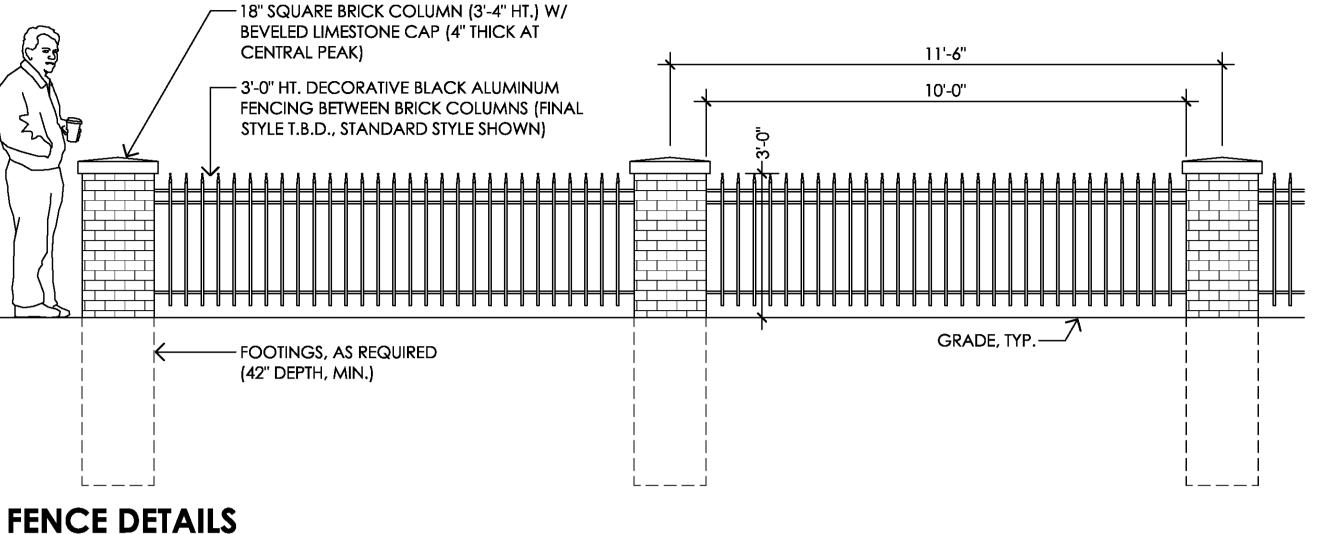
BE PROFESSIONALLY DESIGNED PRIOR TO CONSTRUCTION. THIS SYSTEM SHALL BE AS EFFICIENT AS POSSIBLE, WHILE MINIMIZING THE AMOUNT OF OVERSPRAY AND RUNOFF. 2. THE IRRIGATION SYSTEM SHALL BE DESIGNED TO ADEQUATELY WATER THE PLANT MATERIAL PROPOSED ON THE PLAN. DRIP OR SPRAY HEADS SHALL BE USED IN ALL PLANTING BEDS AND ROTARY HEADS SHALL BE USED IN ALL LAWN AREAS. 3. PLANTING BEDS SHALL BE PLACED ON SEPARATE ZONES

1. AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM SHALL

4. OVERSPRAY OF ANY PUBLIC ROAD, SIDEWALK, PARKING AREA, OR BUILDING SHALL NOT BE PERMITTED. SLEEVING AND ADDITIONAL HEADS SHALL BE PROVIDED TO PREVENT THIS SITUATION.

5. PROPER SLEEVING SHALL BE PROVIDED TO SUPPLY IRRIGATION TO THE ENTRY AND PARKING LOT PLANTING

6. ALL VALVES AND TIMERS SHALL BE EASILY ACCESSIBLE AND ADJUSTABLE IN ORDER TO REACH OPTIMAL PLANT HEALTH.



- EX. ROOT BALL, TYP.

- BOTTOM COURSE OF

WALL STONE TO BE A

MIN. 4-6" BELOW EX.

FOUNDATION, TYP.

← MAINTAIN EX.

HEIGHT, TYP.

GRADE

- EXISTING

TOP VIEW — LIMESTONE CAP, BEVELED ON ALL 4 SIDES TO A CENTRAL PEAK BRICK FACADE ON ALL 4 SIDES FRONT VIEW SIDE VIEW LIMESTONE CAP, TYP. (1" OVER -BRICK-HANG ON FACADE, ALL SIDES)

COLUMN DETAILS

GRADE

TOTAL:

\$ 31,060

SCALE: ½"= 1' 0"

PROPOSED PLANTING SCHEDULE & COST ESTIMATE

SYMB.	QUAN.	COMMON NAME	BOTANICAL NAME	SIZE	ROOT	COMMENTS	UNIT	TOTAL
***	2	SKYLINE HONEY LOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'SKYLINE'	3" CAL.	B & B	FULL, EVEN CROWN; SPACED AS SHOWN	\$ 400	\$ 800
	8	CLEVELAND SELECT PEAR	PYRUS CALLERYANA 'CLEVELAND SELECT'	3" CAL.	B & B	FULL, EVEN CROWN; 20' O.C.	\$ 250	\$2,000
£	12	PRINCETON SENTRY GINKGO	GINKO BILOBA 'PRINCETON SENTRY'	3" CAL.	B & B	STRONG CENTRAL LEADER; 15' O.C.	\$ 250	3,000
*	5	BLACK HILLS SPRUCE	PICEA GLAUCA VAR. DENSATA	8' HT.	B & B	EVEN HABIT; 11' O.C.	\$ 325	\$1,625
	20	ROCKY MOUNTAIN GLOW AMUR MAPLE	ACER GINNALA 'SCHMIDT'	2.5" CAL.	B & B	STRONG CENTRAL LEADER; 12' O.C.	\$ 250	\$5,000
\odot	6	AUTUMN BRILLIANCE SERVICEBERRY	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	8′ HT.	B & B	CLUMP FORM; SPACED AS SHOWN	\$ 250	\$1,500
*	21	TECHNY ARBORVITAE	THUJA OCCIDENTALIS 'TECHNY'	5'-6' HT.	B & B	EVEN HABIT; 3' O.C.	\$ 50	\$1,050
⊙	30	WARD'S YEW	TAXUS x MEDIA 'WARDII'	24" SPR.	B & B	EVEN HABIT; 3' O.C.	\$ 50	\$1,500
O	41	GOLD MOUND SPIRAEA	SPIRAEA X BUMALDA 'GOLD MOUND'	18" HT.	3 GAL.	EVEN HABIT; 30" O.C.	\$ 50	\$2,050
ĘŢ	17	KROSSA REGAL HOSTA	HOSTA 'KROSSA REGAL'	ı	1 GAL.	FULL, WELL ROOTED; 3' O.C.	\$ 15	\$ 255
*	14	GOLD STANDARD HOSTA	HOSTA 'GOLD STANDARD'	ı	1 GAL.	FULL, WELL ROOTED; 30" O.C.	\$ 15	\$ 210
*	14	FOUNTAIN GRASS	PENNISETUM ALOPECUROIDES	ı	1 GAL.	FULL, WELL ROOTED; 30" O.C.	\$ 15	\$ 210
**	26	SAPPHIRE BLUE OAT GRASS	HELICTOTRICHON SEMPERVIRENS 'SAPPHIRE'	ı	1 GAL.	FULL, WELL ROOTED; 2' O.C.	\$ 15	\$ 390
\oplus	31	FINAL TOUCH DAYLILY	HEMEROCALLIS 'FINAL TOUCH'	ı	1 GAL.	FULL, WELL ROOTED; 18" O.C.	\$ 15	\$ 465
₩	59	PURPLE WOOD SPURGE	EUPHORBIA AMYGDALOIDES 'PURPUREA'	-	1 GAL.	FULL, WELL ROOTED; 18" O.C.	\$ 15	\$ 885
	1,435	SQ. YARDS SOD	-	-	-	-	\$ 6	\$8,610
	21	CU. YARDS SHREDDED HARDWOOD MULCH	-	4" DEPTH	ı	-	\$ 65	\$1,365
	3	CU. YARDS 10A LANDSCAPE STONE	-	3" DEPTH	-	-	\$ 65	\$ 195

	SYMB.	QUAN.	COMMON NAME	BOTANICAL NAME	SIZE	ROOT	COMMENTS	UNIT	TOTAL
	**	2	SKYLINE HONEY LOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'SKYLINE'	3" CAL.	B & B	FULL, EVEN CROWN; SPACED AS SHOWN	\$ 400	\$ 800
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	•	30	WARD'S YEW	TAXUS x MEDIA 'WARDII'	24" SPR.	B & B	EVEN HABIT; 3' O.C.	\$ 50	\$1,500
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	**	59	PURPLE WOOD SPURGE	EUPHORBIA AMYGDALOIDES 'PURPUREA'	1	1 GAL.	FULL, WELL ROOTED; 18" O.C.	\$ 15	\$ 885
		1,435	SQ. YARDS SOD	-	-	-	-	\$6	\$8,610
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		3	CU. YARDS 10A LANDSCAPE STONE	-	3" DEPTH	-	-	\$ 65	\$ 195
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STUCKY VITALE ARCHITECTS

27172 WOODWARD AVENUE ROYAL OAK, MI 48067-0925 P. 248.546.6700 F. 248.546.8454 WWW.STUCKYVITALE.COM



LANDSCAPE ARCHITECTS SITE PLANNERS
300 E. LONG LAKE ROAD
BLOOMFIELD HILLS, MI 48304
P) 248-646-6564 F)
248-646-4838

Project:

DETROIT METROPOLITAN CREDIT UNION -**NEW FACILITY** NOVI RD & MAIN ST NOVI, MI 48375 SECTION 23

Issued for : SPA APPROVAL

1.28.13

Drawn by: BMW Checked by: JCS

Sheet Title: : LANDSCAPE PLAN DETAILS

|Project No. : Sheet No. :

ALL QUANTITIES ARE LANDSCAPE ARCHITECT'S ESTIMATES, THESE QUANTITIES ARE NOT TO BE TAKEN AS DEFINING OR LIMITING THE AMOUNT OF WORK TO BE DONE UNDER THE CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR HIS OWN ESTIMATES. ALL DISCREPANCIES ARE TO BE REPORTED TO THE LANDSCAPE ARCHITECT'S OFFICE IMMEDIATELY. ALL DESIGNS, CONCEPTS, DETAILS, ETC. ARE THE PROPERTY OF JAMES C. SCOTT & ASSOCIATES, INC., AND MAY NOT BE

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PLANTER WORK DETAIL

SCALE: 1'0"

PLANTER BOXES.

REMOVED AND DISCARDED

EX. TREES TO REMAIN \longrightarrow

EX. PERENNIALS TO -

REMAIN

PRECAST WALL —

OR EQUAL)

TRIM EXISTING -

EX. GRADE

STONE (BRUSSELS

BLOCK, PISA STONE,

ROOT GUARD, TYP.

FOUNDATION MIN.

4-6" BELOW GRADE

MAINTAIN LEVEL BASE -

ON EX. FOUNDATION

(MORTAR, ADHESIVE,

COMPACETED SLAG,

OR AS REQUIRED

AND/OR EQUAL)

± 8'-0" (SEE PLAN)

1. EXACT METHODS OF CONSTRUCTION OF THE EXISTING PLANTER BOXES IS UNKNOWN. THIS DETAIL ASSUMES THAT THERE IS A CONCRETE FOUNDATION TO THE FROST LINE AND THAT THERE IS A POURED

3. PROPER CARE SHALL BE TAKEN TO PREVENT DAMAGE TO ANY EXITING PLANT MATERIAL WITHIN THE

2. ALL WALL SECTIONS (FACADE, CORE/BACKING, AND CAPSTONE) ABOVE GRADE SHALL BE

CONCRETE OR MASONY BLOCK WALL BEHIND THE EXISITING BRICK FACADE.

TECHNICAL LANDSCAPE SPECIFICATIONS

1.1 CONTRACTOR QUALIFICATIONS

The Landscape Contractor will be duly licensed by the appropriate authorities to handle plant materials. He will be covered by Public Liability and Property Insurance and his employee's covered by Workmen's Compensation Insurance. He will, upon request, furnish a list of major projects your organization has completed in the last five (5) years; A list of major construction projects your organization has underway.

1.2 SITE PREPARATION

A. Trees, brush or shrubs will not be pruned or removed from the site except as directed by the Landscape Architect. Competent personnel shall do all pruning and removal. All tree wounds larger than one inch (1") shall be painted with approved tree paint. Debris resulting from pruning and removal shall promptly be removed from the site.

B. If the Contractor is responsible for furnishing fillsoil, the material will be clean and well draining, free of any organic matter, debris, trash and heavy clay. Fillsoil shall be spread and compacted in layers that are not to exceed twelve inches (12") in depth and will be properly compacted by the contractor.

C. If the Contractor is responsible for rough grading he will grade the subgrade to within a rough grading tolerance to two inches (2") and to be true to line and section. All rocks, stumps and building debris will be removed prior to the spreading of topsoil. Every effort will be made to eliminate depressions, tracks, and soft spots.

D. The Contractor will be responsible for making himself familiar with all underground utilities, pipes and structures. Contractor shall take sole responsibility for cost incurred due to damage and replacement of said utilities.

E. The Contractor will verify all rights of way, easements, property lines and limits of work, etc. prior to commencing work.

F. The Contractor will coordinate all site layouts with Landscape Architect. Report any dimensional discrepancies to Landscape Architect prior to construction.

G. Any erosion and sedimentation from work on this site shall be contained on the site and not allowed to collect on any off-site areas or waterways. Waterways include both natural

and man-made open ditches, streams, storm drains, etc.

H. The Contractor is responsible for replacement of any existing materials that are damaged during construction.

1.3 FINISH GRADING

A. Over the accepted subgrade, topsoil shall be spread over all lawn areas a minimum of two inches (2") unless otherwise specified. All stones larger than one and one-half inch (1 1/2"), rubble, concrete, sticks, and other objectionable materials that are exposed during fine raking, must be properly disposed of off-site. The Landscape Architect shall make the final determination as to what constitutes objectionable material. The Contractor is required to meet finish grades.

1.4 TREE PROTECTION

A. Prior to the initiation of any construction activity, approved tree protection shall be erected and will remain in place until construction is complete.

B. The following activities may not occur within the drip line of all protected trees on the site:
 1. Storage of solvents, building materials, soil deposits, equipment, both idle and running, and vehicular parking

Stripping of topsoil and any other sublayer material
 Grade changes of any kind

C. During construction, no wires, lines, etc. may be fastened in any form to any protected

D. Care should be taken to prevent damage to any regulated trees located on adjacent properties that could be affected during construction.

E. When contracting utility services, notification must be given of the protected trees and all trenching is to be performed outside of the drip lines.

1.5 PLANT MATERIAL

A. All plant material called for in the plant list as shown on the drawing will be of minimum size specified or larger. The height and spread will be measured according to the horticultural standards of the American Association of Nurserymen. Trees will not be accepted if the balls of earth are loosened or broken. All plants shall be healthy vigorous stock, free from disease and with well-developed root systems. They shall be nursery grown, inspected by the Department of Agriculture's Bureau of Plant Industry, and subject to approval by the Landscape Architect.

B. No substitutions or changes of location, or plant types shall be made without the approval of the Landscape Architect. The Landscape Architect shall be notified of any discrepancies between the plans and field conditions prior to installation.

C. The Landscape Architect will have the prerogative to request the source of supply for all plant material to be used, before delivery is started. When specimen material is indicated or when the best interest of the Owner may be served, the Landscape Architect or their designated representative will have the right to inspect the material prior to delivery.

D. Only materials conforming to the requirements of these specifications or specimens approved by the Landscape Architect or authorized agents shall be used in the work. Any material that, after approval, has for any reason become unfit for use will not be incorporated into the work.

E. The Bidder will not modify his bid because of his inability to find a source of supply of plant material specified. If the Landscape Contractor can show satisfactory evidence before the contract is awarded that a particular species is not available, a substitution will be negotiated on the following basis:

Determine from the current catalog of the Lake County Nursery Exchange, Inc. Perry,
Ohio 44081 and/or Landscape Supply Co. Taylor, Michigan 48180 the price of one plant to
be substituted.

The price to be paid the Landscape Contractor for furnishing, planting, and quarantining each substituted item will be the same proportion to the bid price as the catalog price determined above.

NOTE: A particular nursery catalog is stipulated only to set-up, before the opening of bids, a rigid procedure for negotiating unit prices on material substituted in place of the specified material

F. Trees will be measured in trunk diameter six inches (6") above ground line if the trunk is four inches (4") or less in diameter. If over four inches (4") in diameter, it shall be measured twelve inches (12") above the normal ground line. All trees shall have a straight trunk, except those otherwise indicated, and be free of bruises and blemishes. The tree crown shall be well formed structurally having sufficient twig growth to insure proper growth of the tree. All limbs shall radiate in a normal manner from the trunk.

G. Small ornamental trees will be measured on an average from the ground line to the tops of previous year's growth on the vertical branches. All plants, unless otherwise specified, shall be heavy types and may be inspected on the site before Contractor installs the

H. Multi-stemmed trees and shrubs will be measured at the average distance across the body of the plant from tip to tip of branches in their natural position, and at the average height.

I. Plants will be handled properly and protected during transportation to insure satisfactory condition at destination point. The Landscape Architect reserves the right to reject any plants that do not meet the above specifications.

J. Bare root stock and balled & burlapped plants will be carefully protected with wet straw, mulch, or other materials so that the plants will be stored with their roots in a moist and healthy condition, and shall be governed by weather conditions and the length of time that the root ball must remain above ground.

K. Trunks and branches of all trees will be carefully protected from injury of any kind during all operations of digging, loading and transporting. Any plants that are injured may be rejected by the Landscape Architect.

L. All plants so specified, will be balled and burlapped previous to shipment. Such plants shall be lifted from the ground in such a manner as to retain a firm ball of earth. The size of the ball will conform to AAN guidelines. Plants will not be accepted if the balls of earth are

M. All plant material shall be planted plumb and at the correct depth, and shall be staked, guyed and wrapped, as soon or possible after planting. It will be at the discretion of the contractor to use the appropriate products and material so the plants will remain straight, properly aligned, and at the proper elevation for the guarantee period. The owner has the option of having the contractor remove all staking and guying material at the end of the guarantee period.

N. All pruning will be performed on the job site by a competent plantsman. All broken branches and roots will be removed in an approved manner providing a clean cut.

O. The Contractor will thin bare root plants by removing 1/3 of their branching. This will be done in an artful fashion so as not to destroy the natural character of the plant. Shearing will not be accepted except on hedges where all plants will be pruned to a uniform height and

1.6 SOIL PREPARATION AND PLANTING

A. The Contractor shall prepare such quantities of planting soil as may be required to install plants in accordance with the accepted practice of the American Association of Nurserymen and to the satisfaction of the Landscape Architect. Deciduous, and evergreen trees and shrubs, perennials, groundcover and ericaecious plants will be pocket planted using a soil mixture of three (3) parts topsoil and one (1) part peat.

Note: The contractor will acidify the ericaecious soil with perric sulfate to arrive at ph of 4.5

B. A general guideline for excavation of the plant pits follows:

SIZE	PLANT	PIT SIZE *	
		Each Side	Bottom**
3" cal. Or less	Deciduous Tree	8"	8"
More than 3" cal.	Deciduous Tree	12"	12"
8' ht. or less	Evergreen Tree	8"	8"
More than 8' ht.	Evergreen Tree	12"	12"
Mult. Stem	Tree/Lg. Shrub	8"	8"
Small to medium	Deciduous Shrub	6"	6"
Small to medium	Evergreen Shrub	6"	6"
1 gal. Plus	Perennials	3"	3"

Notes * Soil conditions could modify these sizes

** After excavation, backfill with existing soil so that root ball sits at proper grade

The Landscape Contractor shall install 4-6" of clean planting mix around the rootball of all newly planted trees, at the discretion of the Landscape Architect.

C. Metal and tar paper containers shall be removed from all container grown plant materials. Biodegradable paper mache' containers may be left in place, but additional holes shall be punched through the sides to provide adequate drainage. The upper collars of such containers should be removed so that they do not protrude above grade. The top one-half of burlap shall be removed from the top of the plant ball. All nylon cord or plastic type ropes shall be removed from the trunks to prevent future girdling.

D. The Contractor is responsible for the proper placement, alignment and settling of all plants. Care shall be taken to place all plants at their proper depth. In wet situations balled and burlapped plants may be planted slightly higher than their original grade.

E. All newly planted trees shall be staked and guyed as illustrated on the planting details and in accordance with current local nursery and landscape standards. The Landscape contractor shall be responsible for removal of all staking and guying materials when appropriate, as approved by the Landscape Architect.

1.7 SEEDING

A. Spread commercial fertilizer (15/30/15) evenly with a mechanical spreader at the rate of 150 lbs/acre and thoroughly incorporate into the topsoil to a depth of two inches (2"). Immediately before seeding, rework and moisten the surface.

B. Seed will be planted at the uniform rate of six (6) pounds per one thousand square feet (1,000 sq.ft.). Seed will be clean, new crop seed composed of the following mixtures:

Kentucky Blend 33% Creeping Red Fescue 33%

Fine Leaf Rye Grass 33% (unless otherwise specified on the plan)

All seed shall have a 97% purity rating. Certification of the seed mix will be provided to the Landscape Architect prior to any seeding operation, if so requested.

C. Incorporate all seeding by use of a brillion seeder with roller to a minimum depth of one-half inch (1/2") or approved equal.

D. All seeded areas will be mulched with straw mulch or hydro mulch. This will be left to the discretion of the Contractor.

E. Any part of this area that fails to show a uniform germination shall be reseeded at no additional expense to the Owner and such reseeding shall continue until a dense lawn is

F. It is the intent of these specifications to obtain a finished lawn surface free of humps and depressions, and satisfactory for mowing with hand or mechanical mowers, and to establish an even dense, weed free turf of permanent grasses. Any part of the seeded area that fails to show a uniform growth shall be reseeded by the Contractor until a dense lawn is produced. Damage to the lawn areas resulting from erosion or Contractor's operations shall be repaired by the Contractor until the lawn is accepted.

1.8 SODDING

A. Seed mixture composition of the sod will be approved by the Landscape Architect prior to delivery on site. Sod will be laid over approved subgrade. Sod will have a uniform soilpad thickness of 5/8", plus or minus 1/4". Sod shall be harvested, delivered and transplanted within 36 hours. Sod will be weed free and placed flush at the joints so that no gaps occur.

B. Any area or amount of sod that dies shall be replaced at no additional expense to the Owner.

C. It is that intent of these specifications to obtain a finished lawn surface free of humps and depressions, and satisfactory for mowing with hand or mechanical mowers, and to establish an even dense, weed free turf of permanent grasses. Any part of the area that fails to show a uniform growth shall be resodded by the Contractor until a dense lawn is produced. Damage to the lawn areas resulting from erosion or Contractor's operations shall be repaired by the Contractor until the lawn is accepted.

1.9 SEEDING AND SODDING MAINTENANCE

A. Maintenance shall begin immediately after a portion of turf is installed and shall be the responsibility of the contractor for a period of 30 days. Also, one mowing of sodded lawn and two mowings of the seeded lawn will be required.

B. Maintenance shall also include, but not be limited to the watering, weeding, reseeding, resodding, rolling, trimming and other operations as necessary. The areas shall be kept watered with sprinklers or other approved methods during dry weather or when deemed necessary by the Landscape Contractor. The sod shall be thoroughly watered when initially laid. Note that a sprinkler irrigation system is typically planned, so the system should be operable at the time of sod installation.

1.10 FERTILIZING AND WATERING OF PLANT MATERIAL

A. Fertilizing is left to the discretion of the Contractor. In no case should dry type commercial fertilizers be placed in the root zone, unless they are the pelletized slow-release type, designed for this purpose.

B. All plants will be thoroughly watered in by the Contractor immediately after planting. Watering will be the Contractors responsibility until the installation is accepted by the Owner. The Contractor will advise the Owner on the proper care of the new plantings and will be responsible for checking the condition of the plants as necessary and advise the Owner of any deficiency or excess of watering during the warranty period.

1.11 EDGING

A. Edging will be the type specified and installed where shown on the drawing.

B. All edging shall be installed uniform to the grade and in straight alignment.

C. Edging will be cut or perforated when installed in low areas, swales or any situation where drainage might be impeded.

D. Variation from the plan will not be allowed unless otherwise specified by the Landscape

1.12 STONE MULCH

A. All stone mulch specified on the plan will be of the type and size aggregate indicated and will be applied at the thickness specified on the plan.

B. The stone mulch material shall be consistent in size, shape, and color, will be of premium grade and washed clean prior to installation.

C. The stone mulch will be placed on top of Fabric Weed Barrier (Dupont Typar Style #3201 or equal) after the soil has been treated with an approved pre-emergent weed preventative. The pre-emergent weed preventative will be applied at a rate specified by the manufacturer.

1.13 SHREDDED BARK MULCH

1.14 WARRANTY/ GUARANTEE

A. All planting beds indicated on the plan shall contain a layer of Shredded Bark Mulch. Mulch shall be applied at the thickness specified on the plans. The finish grade shall conform to the surrounding grade.

B. The mulch material shall have a dark brown, fine shredded appearance with no large objectionable pieces. No wood chips will be allowed.

C. Approved pre-emergent weed preventative shall be applied to all mulched beds at a rate specified by the manufacturer.

D. All evergreen and deciduous trees in lawn areas will receive approximately ten (10) sq.ft. of Shredded Bark Mulch per tree at a four inch (4") minimum depth.

A. The Contractor will guarantee in writing all plant material to be true to name and in vigorous condition at time of planting. In addition, he will guarantee the life of all plant materials 100% for the period of one (1) year from the date of acceptance. Replacements

B. The Contractor, at thier discretion, may deem the guarantee void if plant failure is determined to be the result of any of the following conditions:

Storm and/or Wildlife damage
 Failure to maintain per contractors written instruction(s)
 Herbicide and/or Insecticide damage by other(s)

shall be made during the next appropriate planting season.

Transplanting by other(s)

C. The Contractor shall be responsible for furnishing the Owner with complete maintenance,

site visits to assure Owner compliance.

D. All construction will be guaranteed in writing against faulty workmanship and materials for the period of one (1) year.

watering, and fertilizing schedules, as required. The Contractor shall also provide periodic

1.15 ACCEPTANCE & PAYMENT

duties shall be removed by the contractor.

A. The job will be accepted when completed to the satisfaction of the Landscape Architect and Owner. The Landscape Architect shall have the authority to reject any material that does not meet the specifications or is improperly planted or placed. All debris resulting from the Landscape job will be removed and the beds properly graded and raked prior to

All mud, dirt, and debris tracked onto existing roads from the site due to his construction

Any damage caused by the Landscape Contractor to existing plants, structures, walks and lawns must be repaired prior to final payment.

B. Partial payments shall be made as various stages of the job are completed and accepted:
 1. Construction
 2. Planting

Ten percent (10%) of said payments shall be retained until the total contract is completed

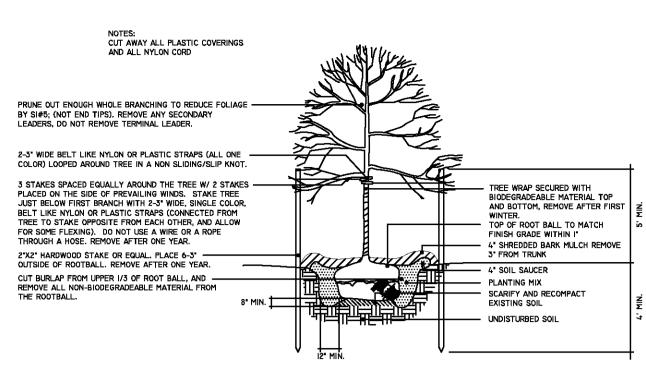
1.16 MISCELLANEOUS NOTES

3. Sodding

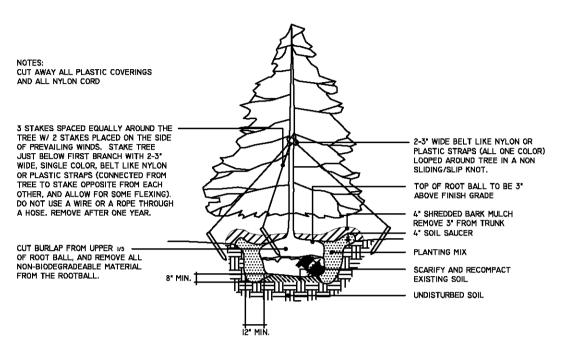
A. Care should be taken by Contractor not to plant under or over utility lines, and easements, or in any location where existing utilities will interfere with the growth of plant material.

B. Contractor shall be responsible for checking plant and material quantities to ensure quantities on drawings and plant list (if provided) are the same. In the event of a discrepancy, the quantities on the plans shall prevail.

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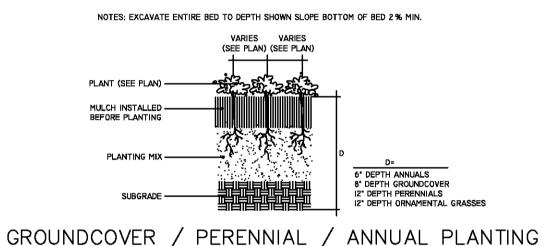


DECIDUOUS TREE PLANTING



EVERGREEN TREE PLANTING
NOT TO SCALE

NOT TO SCALE



WHEN PROPOSED WALKS, CURBS OR BUILDINGS
ENCROACH ON TREE DRIP LINES, INSTALL FENCING
3' BACK OF PROPOSED STRUCTURE, OTHERWISE
ENCIRCLE ENTIRE DRIP LINE

EXISTING TREE

LINE OF TREES

4' HIGH SAFETY FENCE

- 4' HIGH SAFETY FENCE

- 4" SHREDDED BARK MULCH

SHRUB PLANTING DETAIL

¼"X4" ALUMINUM EDGING ———

FLUSH OVERLAP JOINT ASSEMBLY ----

PUNCHED SLOTS - 30°O.C.

I8" STAKES ----

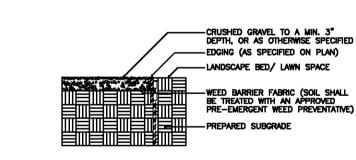
MULCH AS SPECIFIED -

BACKFILL AS SPECIFIED ----

从"X4" ALUMINUM EDGING ———

ELEVATION

TREE PROTECTION DETAIL



MAINTENANCE STRIP DETAIL

SVA

STUCKY VITALE ARCHITECTS
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SECTION 23

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