PLANNING AND DEVELOPMENT SERVICES STAFF REPORT

For Planning Commission Meeting of January 22, 2020

SUBJECT: Michigan Schools and Government Credit Union Special Exception Use

and Landscape Modification for City Planning Commission Approval, and

Zoning and Site Plan for City Council Approval

(2151 West Stadium Boulevard)

Project Nos. Z19-010, SEU19-003, and SP19-019

PROPOSED CITY PLANNING COMMISSION MOTION

The Ann Arbor City Planning Commission hereby recommends that the Mayor and City Council approve the Michigan Schools and Government Credit Union Rezoning Petition to C3 (Fringe Commercial District) based on the proposed zoning and recommended commercial land use designation.

PROPOSED CITY PLANNING COMMISSION MOTION

The Ann Arbor City Planning Commission, after hearing all interested persons and reviewing all relevant information, finds the petition substantially meets the standards in Chapter 55 (Ann Arbor Unified Development Code), Section 5.29.5 (Special Exception Use), and therefore approves the Michigan Schools and Government Credit Union Special Exception Use for a maximum of three drive-through lanes as part of a financial services use. This approval is based on the following findings:

- 1. The proposed use will be consistent with the C3 Fringe Commercial District zoning district, which provides commercial activities accessed primarily by automobile.
- The proposed use will not adversely impact traffic, pedestrians, bicyclists, circulation, or road intersections based on the location. West Stadium Boulevard provides access to the site, and the proposed use is consistent with other surrounding uses' traffic impact.

PROPOSED CITY PLANNING COMMISSION MOTION

The Ann Arbor City Planning Commission hereby approves the proposed landscape modifications according to Chapter 55 Unified Development Code, Section 50.30.3.B.7, to require 0 square feet of bioretention area due to the condition of contaminated on-site soils.

PROPOSED CITY PLANNING COMMISSION MOTION

The Ann Arbor City Planning Commission hereby recommends that the Mayor and City Council approve the Michigan Schools and Government Credit Union Site Plan.

STAFF RECOMMENDATION:

Staff recommends that the **zoning petition** be **approved** because it is generally consistent with the <u>Master Plan: Land Use Element</u> and is compatible with the surrounding zoning designations and land uses. The Master Plan includes the site in the Stadium Boulevard Commercial Corridor, and recommends a future land use of commercial.

Staff recommends that the **special exception use** be **approved with conditions** subject to Planning Commission consideration because the proposed special exception use is of such location, size and character as to be compatible with the zoning district in which the site is situated; and the location and size of the proposed use, its nature and intensity, the site layout and access, and effect of the proposed use on public services would not be hazardous or inconvenient to the neighborhood nor unduly conflict with the normal traffic of the neighborhood.

Staff recommends that the **landscape modification** request be **approved** because the modifications are consistent with the intent of the ordinance.

Staff recommends that the **site plan** be **approved**, because the contemplated development would comply with all applicable state, local, and federal law, ordinances, standards and regulations; and the development would not cause a public or private nuisance, limits the disturbance of natural features to the minimum necessary to allow a reasonable use of the land, and would not have a detrimental effect on the public health, safety or welfare; and the modifications meet the required conditions.

HISTORY:

This petition was postponed at the December 3, 2019 City Planning Commission meeting. The CPC expressed concerns with the plan, such as the safety of pedestrians both using the ATM and accessing the site from the south, the appropriateness of drive-through lanes, interior circulation (including driveway safety and connectivity to neighboring sites), and the total amount of impervious surfaces proposed. The petitioner revised the plans, which were re-reviewed by all of the original city staff reviewers.

CHANGES FROM PREVIOUS SUBMISSION SITE PLAN PETITION:

The petitioners made the following revisions to the site plan set:

- Adjusted the landscaping and tree species adjacent to the entry drive and adjacent to the drive-up lane approach. Tree branches are now shown trimmed to a certain height.
- A drive running north/south has been clarified as 24' wide and connects to both adjacent sites.
- A sidewalk was added along part of the south edge of the site near the building.
- The loading zone was removed to reduce the impervious surface area.

MSGCU Special Exception Use, Zoning, Landscape Modification, and Site Plan Page 3

- A walk-up ATM is provided outdoors on the front of the building, next to the main entrance.
- Up-lighting has been removed from the exterior of the building.
- Front setback measurements have been clarified.

REZONING PETITION:

No zoning changes from the previously reviewed petition are proposed.

SPECIAL EXCEPTION USE PETITION:

No changes to the special exception use petition are proposed.

DEPARTMENT COMMENTS:

Engineering: (Repeat comment from previous staff report) An easement will be necessary if the sanitary sewer lead is relocated. For the increase in sanitary sewer flow, flow equivalent to 1 GPM will need to be removed from the sanitary sewer system. Alternatively, a payment in lieu may be made.

Planning: The cross-access driveway is appreciated. If, at the time of construction, the adjacent property owner(s) do not authorize this vehicular access onto their property, MSGCU would install a straight curb across the opening. Before access is possible onto adjoining sites, a cross-access easement will be required.

Urban Forestry & Natural Resources: The petitioner has applied for a Landscape Modification to provide zero square feet of bioretention due to contaminated soils on site. Natural Resources staff support this modification request.

Prepared by Jill Thacher Reviewed by Brett Lenart 01/15/20

Attachments: December 3, 2020 Staff Report with Zoning Map, Aerial Photo and Citizen

Participation Report

Site Plan

c: Petitioner: Steve Brewer, CFO

MSGCU

40400 Garfield Rd Clinton Twp, MI 48038

Petitioner's Agent: Michael Blanek, AIA

Stucky Vitale Architects, Inc. 27172 Woodward Ave Royal Oak, MI 48067

Project No. SEU19-003, Z19-010, and SP19-019

PLANNING AND DEVELOPMENT SERVICES STAFF REPORT

For Planning Commission Meeting of December 3, 2019

SUBJECT: Michigan Schools and Government Credit Union Special Exception Use for

City Planning Commission Approval, and Zoning and Site Plan for City

Council Approval

(2151 West Stadium Boulevard)

Project Nos. Z19-010, SEU19-003, and SP19-019

PROPOSED CITY PLANNING COMMISSION MOTION

The Ann Arbor City Planning Commission, after hearing all interested persons and reviewing all relevant information, finds the petition substantially meets the standards in Chapter 55 (Zoning Ordinance), Section 5:104 (Special Exceptions), and therefore approves the Michigan Schools and Government Credit Union Special Exception Use for a maximum of three drive-through lanes as part of a financial services use.

PROPOSED CITY PLANNING COMMISSION MOTION

The Ann Arbor City Planning Commission hereby recommends that the Mayor and City Council approve the Michigan Schools and Government Credit Union Rezoning Petition to C3 (Fringe Commercial District) based on the proposed zoning and recommended commercial land use designation.

PROPOSED CITY PLANNING COMMISSION MOTION

The Ann Arbor City Planning Commission hereby recommends that the Mayor and City Council approve the Michigan Schools and Government Credit Union Site Plan.

STAFF RECOMMENDATION:

Staff recommends that the **zoning petition** be **approved** because it is generally consistent with the <u>Master Plan: Land Use Element</u> and is compatible with the surrounding zoning designations and land uses.

Staff recommends that the **special exception use** be **approved with conditions** subject to Planning Commission consideration because the proposed special exception use is of such location, size and character as to be compatible with the zoning district in which the site is situated; and the location and size of the proposed use, its nature and intensity, the site layout

and access, and effect of the proposed use on public services would not be hazardous or inconvenient to the neighborhood nor unduly conflict with the normal traffic of the neighborhood.

Staff recommends that the **site plan** be **approved**, because the contemplated development would comply with all applicable state, local, and federal law, ordinances, standards and regulations; and the development would not cause a public or private nuisance, limits the disturbance of natural features to the minimum necessary to allow a reasonable use of the land, and would not have a detrimental effect on the public health, safety or welfare; and the modifications meet the required conditions.

LOCATION:

This site is located on the west side of West Stadium Boulevard, south of West Liberty and north of Federal Boulevard. It is in the west planning area and the Allen Creek watershed.

SUMMARY:

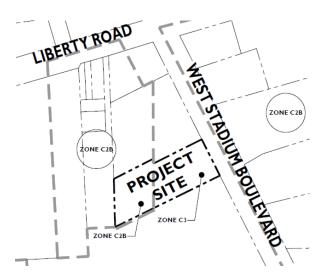
The petitioners seek approval to construct a new 3,803-square foot credit union building with three drive-through lanes. The site is 50,137 square feet and is zoned C3 Fringe Commercial on roughly the eastern half, and C2B Business Service on the remaining western half. The western half of the site is proposed to be rezoned to C3 for consistency. The drive-through lanes require special exception use approval from the City Planning Commission.

Attachments and information submitted for each project type may be found in the complete project application package in eTrakit at www.a2gov.org/permits. Search under Projects by the address 2151 West Stadium.

REZONING PETITION:

<u>Current Zoning</u> – The western half (roughly) of the site is zoned C2B (Business Service District). Permitted principal uses allowed include restaurants, automobile sales and repair, restaurant, retail, personal services, office, and other uses. Drive-through facilities, fueling stations, and carwashes are allowed as a special exception use.

<u>Proposed Zoning</u> – The applicant requests rezoning the site from C2B to C3 (Fringe Commercial District). The permitted principal uses are the same as C2B, plus fueling stations and carwashes. Other special exception uses are the same as C212B.



SPECIAL EXCEPTION USE PETITION:

Three proposed drive-through lanes for tellers and/or ATM machines require special exception use approval from the City Planning Commission.

SITE PLAN PETITION:

Existing Conditions – The site is vacant and cleared.

<u>Proposed Development</u> – The proposed <u>site plan</u> is for a 3,803 square foot, single-story credit union building with 21 surface parking spaces. The proposed floor area ratio is 7.5%.

Other development details include:

- Building Placement -- The building placement is near the southeast corner of the site,
 10' from the West Stadium Boulevard right-of-way and 5.8' from the south property line.
- Circulation -- A driveway off West Stadium is to the north of the building. To the west, behind the building are three drive-through teller or ATM lanes. Drive-through traffic makes a loop behind the building before rejoining the driveway leading to the West Stadium curb cut. The maximum 21 vehicular parking spaces are proposed, and there are four class C bicycle parking spaces located convenient to the front door.
- Natural Features/Landscape -- There are no natural features or landmark trees on the site, which is vacant and recently cleared. Right-of-way screening and interior landscape islands are being provided as required.
- Storm Water Management -- The plan includes storm water treatment via a mechanical treatment unit, detained within an above-ground basin and outlet to the West Stadium Boulevard storm sewer. The above ground basin will have a thermoplastic liner to make sure there are no pathways for contamination from soil to get into the storm system.

<u>Planning Staff Comments</u>: The petitioner has shown a driveway connection to the property to the south on their site plan. This is much appreciated, and though that landowner is not currently interested in making a physical connection, it preserves that potential for the future. Staff also suggested a connection to the north and that some parking spaces be deferred, which the petitioners declined due to their proposed site layout and perceived need for the maximum number of parking spaces.

CITIZEN PARTICIPATION:

The petitioner held a Citizen Participation meeting on June 18, 2019. 417 property owners and persons within 1000 feet of the site were notified via postcard. Three people attended the meeting, and their questions are summarized in

the Citizen Participation Report.

HISTORY:

The northern half of the site contained a restaurant building that was constructed in 1962 for Kales Waterfall Supper Club, which featured a cave-like interior and waterfall with a 30 foot drop. From around 1982 to 2011 it was home to Sze-Chuan West. The building was demolished in 2012.



The Big M Car Wash and Citgo station were located on the south half of the site from 1961 until they were demolished in 2016.

Several site plans have been submitted for the site, with the most recent approval being Auto Zone in 2015. That project was not constructed, and the site plan expired.

SITE PLAN DATA ANALYSIS:

| TABLE O | F LAND USE A | ND ZONING | |
|-----------------------------------|-----------------------|---------------------|--------------------|
| F | PARCEL ID: 09-09-30-3 | 18-028 | |
| FRINC | GE COMMERCIAL DIS | TRICT (C3) | |
| PROPOSED USE | | | |
| CREDIT UNION | PERMITTED USE | | |
| DRIVE-THRU FACILITIES | SPECIAL EXCEPTION (| JSE * | |
| ZONING REQUIREMENT | EXISTING | PROPOSED | REQUIRED |
| ZONING | C3 / C2B | C3 | C3 |
| MINIMUM LOT AREA | 51,016 SF (1.17 AC) | 51,016 SF (1.17 AC) | 6,000 SF (0.14 AC) |
| MINIMUM LOT WIDTH | 140.0 FT | 140.0 FT | 60 FT |
| MAXIMUM FLOOR AREA RATIO | N/A | 7.5% (3,803 SF) | 200% |
| MAXIMUM BUILDING HEIGHT | N/A | 22.5 FT (I STORY) | 55 FT (4 STORIES) |
| MINIMUM FRONT YARD SETBACK | 0.0 FT | 10.0 FT | I0 FT |
| MINIMUM SIDE YARD SETBACK (SOUTH) | 0.0 FT | 5.8 FT | 0 FT |
| MINIMUM SIDE YARD SETBACK (NORTH) | 0.0 FT | 74.2 FT | 0 FT |
| MINIMUM REAR YARD SETBACK | 0.0 FT | 209.5 FT | 20 FT |
| PARKING - AUTOMOBILES (MINIMUM) | N/A | 21 SPACES | 18 SPACES MIN |
| PARKING - AUTOMOBILES (MAXIMUM) | N/A | 21 SPACES | 21 SPACES MAX |
| PARKING - BICYCLES | N/A | 4 SPACES - CLASS C | 2 SPACES - CLASS C |

LAND USE ANALYSIS (SURROUNDING LAND USES AND ZONING):

| | LAND USE | ZONING |
|-------|---|---|
| NORTH | Retail (Bell's Diner/Stadium Hardware/etc) | C2B (Business Service District) and C3 (Fringe Commercial District) |
| EAST | Retail (CVS) | C2B (Business Service District) |
| SOUTH | Retail (Arbor Farms/etc) | C3 (Fringe Commercial District) |
| WEST | Commercial (Detroit Fudge Co) | C2B (Business Service District) |

CITY MASTER PLAN:

<u>City Master Plan</u> – The Land Use Element (2009) recommends a future land use of Commercial for this site and surrounding properties.

SPECIAL EXCEPTION USE ANALYSIS:

The Planning Commission, in arriving at its decision relative to any application for a special exception, shall apply the standards shown on the <u>special exception use petition</u>.

<u>Planning Staff Comments</u>: The petitioner originally submitted a site plan showing a driveway circling the building and running between the sidewalk in the Stadium Boulevard right-of-way and the credit union building. Planning staff noted in the first round of review comments that the configuration of the driveway was unnecessarily hazardous to pedestrian by forcing all traffic on site (not just drive-through traffic) to circle the building via the front yard. Because of the large size of the lot and small building footprint, staff recommended that the drive be relocated behind the building to minimize the potential for pedestrian conflicts. The petitioner met with planning staff, then changed their site plan to the current configuration by moving the building closer to West Stadium Boulevard and creating a loop drive behind the building.

REZONING ANALYSIS:

Changes to the text or map of the Zoning Ordinance (Chapter 55 of the Ann Arbor City Code) may be made pursuant to Sections 5:107 and 5:108. To assist the Planning Commission and City Council with their decision, applicants provide a <u>petition</u> with justifications in support of the request. The petition addresses:

- 1. The extent to which the rezoning is necessary.
- 2. How the rezoning will affect the public welfare and property rights of persons located in the vicinity.
- 3. How the rezoning will be advantageous to the City.
- 4. How this particular location will meet the convenience and service requirements of potential users and occupants.
- 5. Any changed or changing conditions in any particular area, or in the City generally, which may have bearing on the request.
- 6. Other circumstances and factors which further justify the request.

<u>Planning Staff Comments</u>: The C2B portion of the site is proposed to be rezoned to C3 for consistency within the parcel, at the request of Planning staff. C3 zoning is consistent with the adjacent parcel to the south, and half of the parcel to the north.

DEPARTMENT COMMENTS

<u>Engineering</u>: An easement will be necessary if the sanitary sewer lead is relocated. For the increase in sanitary sewer flow, flow equivalent to 1 GPM will need to be removed from the sanitary sewer system. Alternatively, a payment in lieu may be made.

Prepared by Jill Thacher Reviewed by Brett Lenart 12/3/19

Attachments: Zoning Map

Aerial Photo

MSGCU Special Exception Use, Zoning, and Site Plan Page 6

<u>Site Plan</u> <u>Citizen Participation Report</u>

c: Petitioner: Steve Brewer, CFO

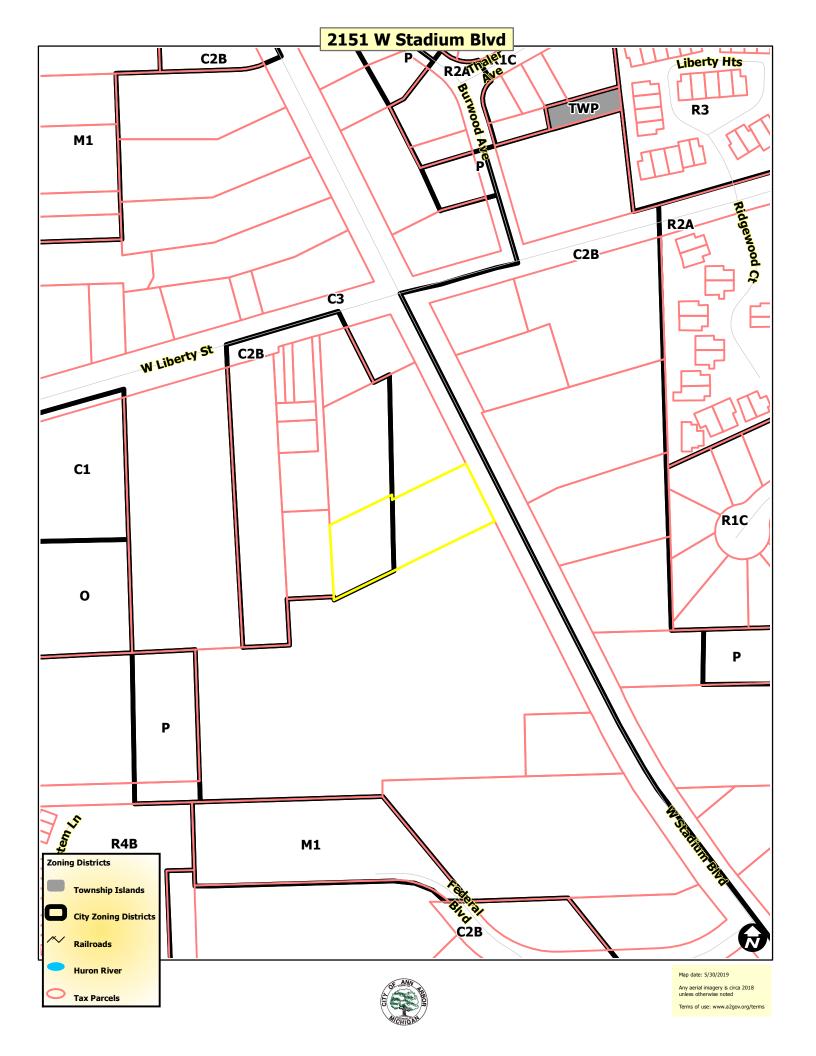
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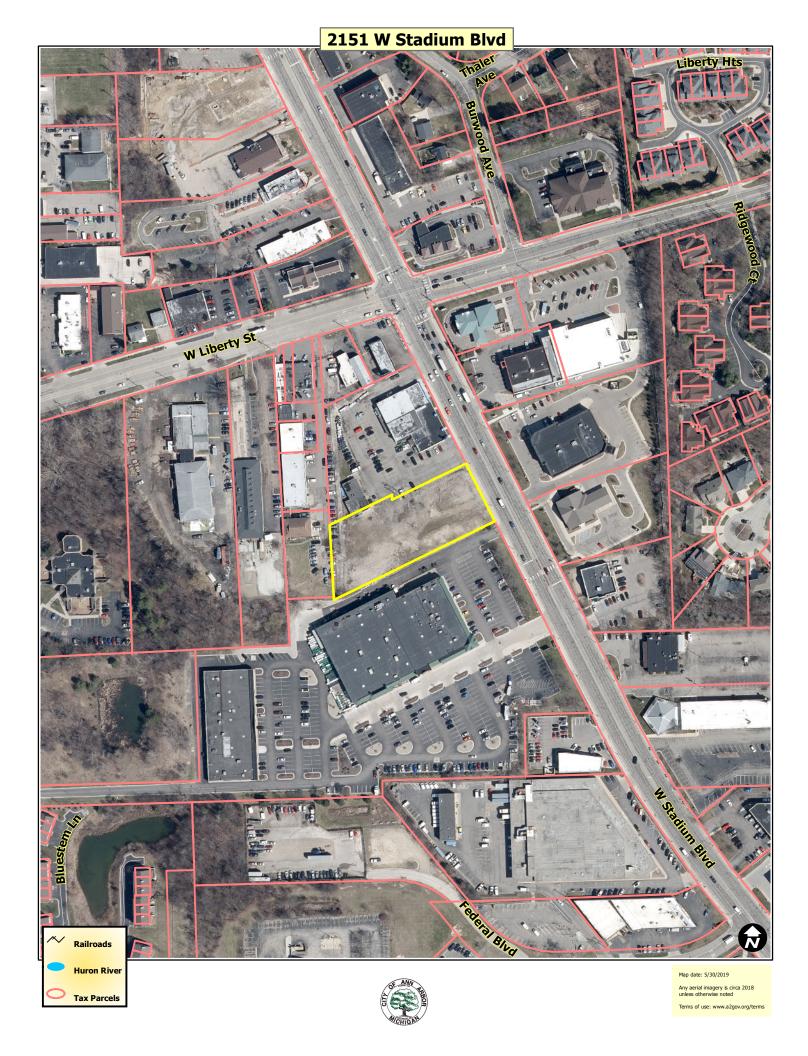
40400 Garfield Rd Clinton Twp, MI 48038

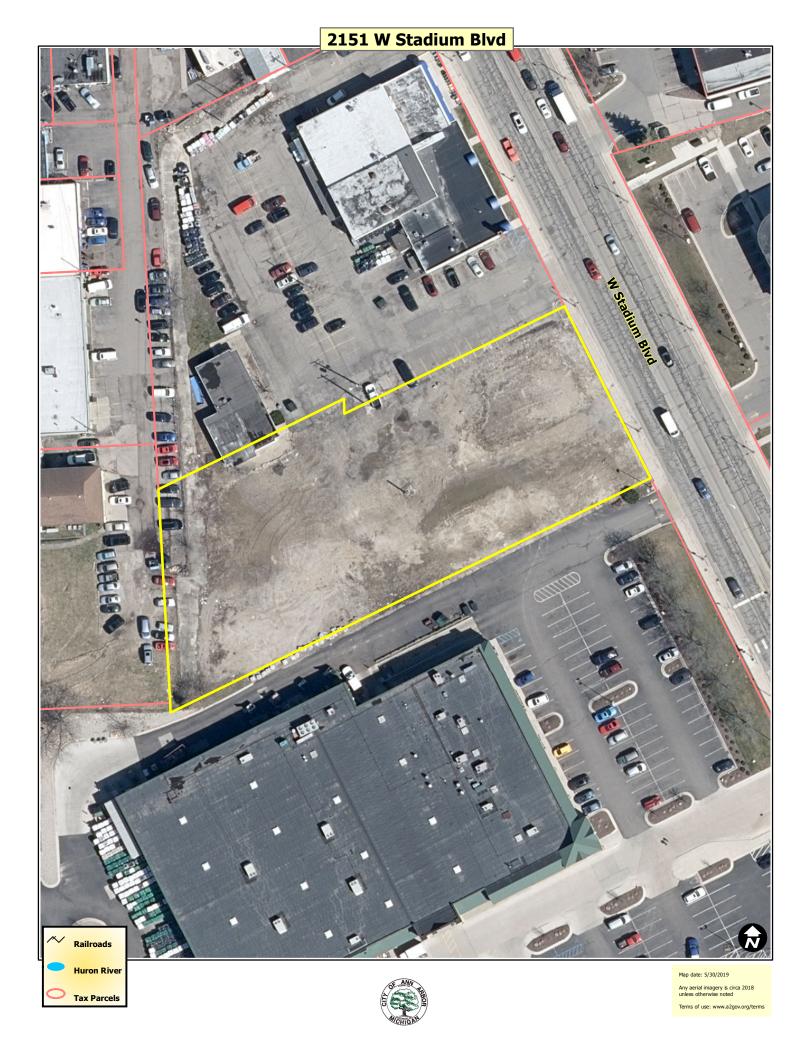
Petitioner's Agent: Michael Blanek, AIA

Stucky Vitale Architects, Inc. 27172 Woodward Ave Royal Oak, MI 48067

Project No. SEU19-003, Z19-010, and SP19-019









Date: June 19, 2018

City of Ann Arbor Planning Services – City Hall 301 E. Huron St. Ann Arbor, MI 48107

Re: MSGCU Ann Arbor

Architects' Project No.: 2018.157

3 resident participants showed up to the meeting out of 417 post cards mailed. Comments are summarized below.

- 1A) Does not like the setback distance of 25'- 0" from the property line. Did indicate that the city zoning ordinance requires a minimum of 10' and maximum of 25 ft. This project is shown at the 25' 0" setback distance. Did point out that the building was angled to minimize the impact of the 25' setback dimension. Also, will email resident PDF of our site plan. Since the residence concerns has to do with the required setback distance, no changes to the site plan are proposed.
- 1B) Resident requested planner's email address at the city with whom we are working with (Matthew Kowalski)
- 2) Looks like a good project for the site
- 3) Great use for the site

Sincerely,

Michael J. Blanek, AIA

Enclosure: Sign – In Sheet from meeting Mailed post card notification

Resident Participation Meeting

Project: MSGC11-2151 4. STADIUM BLVD. Meeting Date: JUNE 18, 2019

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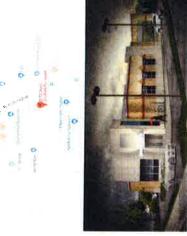
Name (Please Print)

| Name (Please Print) | Mailing Address | Email Address |
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| John R. Burch | 529 BULWOOD AND ACEDE | 48107 John K B. C. 1, @ 1000 1 |
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Template provided to the Developer by the City of Ann Arbor Planning Services

RESIDENT PARTICIPATION MEETING!

A PUBLIC MEETING IS BEING HELD BY MICHIGAN SCHOOLS AND GOVERNMENT FOR A PROJECT AT CREDIT UNION + STUCKY VITALE ARCHITECTS 2151 WEST STADIUM BOULEVARD ANN ARBOR, MICHIGAN 48103



MEETING INFORMATION

Date: JUNE 18, 2019 Time: 5 P.M. TO 8 P.M. Place: ANN ARBOR DISTRICT LIBRARY WESTGATE BRANCH WEST SIDE ROOM 2503 JACKSON AVENUE ANN ARBOR MI 48103 Accommodations for individuals with disabilities can be arranged by contacting:

EMILY HOWARD (734)327-8332

In accordance with the City of Ann Arbor's Citizen Participation Ordinance, the Developer for the above project is notifying residents and property owners within 1,000 feet of the above address. If this project is placed on an agenda for the City Planning Commission, the City of Ann Arbor will notice residents and prop-erty owners within 300 ft. of the above address. If you would like to be notified if this project is placed on a City Planning Commission agenda, please contact City of Ann Arbor Planning Services at 734-794-6265 or planning@a2gov.org.



RESIDENT PARTICIPATION OPPORTUNITY!

You are invited to attend a Resident Participation Meeting hosted by the Developer for a project near you. At this meeting you will have the opportunity to learn about the proposed project, ask questions, and submit comments. A report of the meeting will be prepared by the Developer and submitted to the City of Ann Arbor with their final application. The report will include attendance, a summary of the meeting, and any written correspondence received by the Developer.



LOCATION MAP

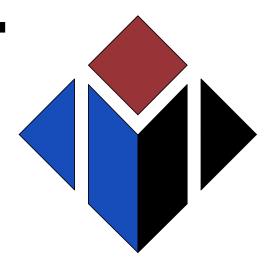
SCALE: $I'' = 2,000' \pm$

PROJECT #SP19-019 SITE PLAN FOR CITY COUNCIL APPROVAL

MICHIGAN SCHOOLS & GOVERNMENT **CREDIT UNION**

PROPOSED CREDIT UNION WITH DRIVE-THRU FACILITIES

PARCEL ID: 09-09-30-318-028 2151 WEST STADIUM BOULEVARD CITY OF ANN ARBOR WASHTENAW COUNTY, MICHIGAN



APPLICANT

OWNER

WEST STADIUM, LLC P.O. BOX 1325

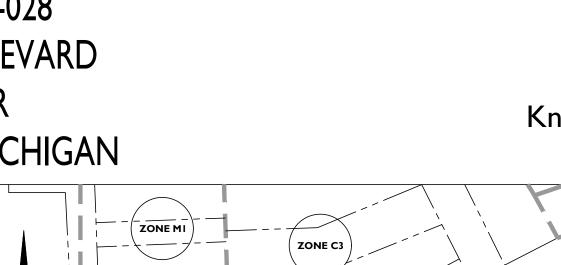
PETITIONER'S AGENT

MBLANEK@STUCKYVITALE.COM 27172 WOODWARD AVENUE **ROYAL OAK, MICHIGAN 48067** (248)-546-6700



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

ZONE R2A



OUTHIMA

SOURCE: CITY OF ANN ARBOR ZONING MAP

ZONE O



PROJECT SUMMARY

AERIAL MAP

SCALE: $I'' = 200' \pm$

STATEMENT OF INTEREST IN LAND

DEVELOPER HAS ENTERED INTO A LAND CONTRACT WITH CURRENT PROPERTY OWNER. FINAL SALE OF PARCELS IS CONTINGENT ON SITE PLAN AND OTHER PROJECT APPROVALS.

PARCEL AREA

51,016± SQUARE FEET = 1.171± ACRES

LEGAL DESCRIPTION

THE LAND SITUATED IN THE CITY OF ANN ARBOR, COUNTY OF WASHTENAW, STATE OF MICHIGAN, IS **DESCRIBED AS FOLLOWS:**

COMMENCING AT THE SOUTHWEST CORNER OF SECTION 30, TOWN 2 SOUTH, RANGE 6 EAST; THENCE NORTH 854.71 FEET; THENCE NORTH 75 DEGREES 48 MINUTES 00 SECONDS EAST 743.10 FEET; THENCE SOUTH 01 DEGREES 56 MINUTES 00 SECONDS EAST 451.29 FEET FOR A POINT OF BEGINNING; THENCE NORTH 65 DEGREES 10 MINUTES 00 SECONDS EAST 150.49 FEET: THENCE SOUTH 00 DEGREES 03 MINUTES 00 SECONDS WEST 11.02 FEET; THENCE NORTH 65 DEGREES 10 MINUTES 00 SECONDS EAST 173.96 FEET, THENCE SOUTH 24 DEGREES 50 MINUTES 00 SECONDS EAST 140.00 FEET; THENCE SOUTH 65 DEGREES 10 MINUTES 00 SECONDS WEST 383.29 FEET, THENCE NORTH 01 DEGREES 56 MINUTES 00 SECONDS WEST 162.97 FEET TO THE POINT OF BEGINNING.

PLANS PREPARED BY:

STONEFIELD engineering & design

Detroit, MI · New York, NY · Boston, MA Princeton, NJ · Tampa, FL · Rutherford, NJ www.stonefieldeng.com

607 Shelby Suite 200, Detroit, MI 48226 Phone 248.247.1115

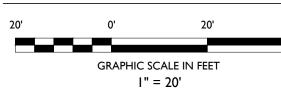
ZONING MAP

SCALE: I" = 200'±

PLAN REFERENCE MATERIALS:

- I. THIS PLAN SET REFERENCES THE FOLLOWING DOCUMENTS **INCLUDING, BUT NOT LIMITED TO:**
 - **BOUNDARY / TOPOGRAPHIC SURVEY PREPARED BY**
 - KEM-TEC & ASSOCIATES DATED 12/13/2018; REVISED ARCHITECTURAL PLANS PREPARED BY STUCKY VITALE ARCHITECTS, DATED 12/16/2019
 - **GEOTECHNICAL REPORT** AERIAL MAP OBTAINED FROM GOOGLE EARTH PRO
 - PHASE-I REPORT PREPARED BY PM ENVIRONMENTAL
 - ALL REFERENCE MATERIAL LISTED ABOVE SHALL BE CONSIDERED A PART OF THIS PLAN SET AND ALL INFORMATION CONTAINED WITHIN THESE MATERIALS SHALL BE UTILIZED IN CONJUNCTION WITH THIS PLAN SET. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN A COPY OF EACH REFERENCE AND REVIEW IT THOROUGHLY PRIOR TO THE START OF CONSTRUCTION.

DRAWING SCALE



| SHEET INDEX | | | | |
|--------------------------------------|----------------|--|--|--|
| DRAWING TITLE | SHEET# | | | |
| COVER SHEET | C-I | | | |
| ALTA / TOPOGRAPHIC SURVEY | I | | | |
| DEMOLITION PLAN | C-2 | | | |
| SITE PLAN | C-3 | | | |
| GRADING PLAN | C-4 | | | |
| STORMWATER MANAGEMENT PLAN | C-5 & C-6 | | | |
| UTILITY PLAN | C-7 | | | |
| LIGHTING PLAN | C-8 | | | |
| LANDSCAPING PLAN | C-9 | | | |
| SOIL EROSION & SEDIMENT CONTROL PLAN | C-10 | | | |
| CONSTRUCTION DETAILS | C-11 THRU C-14 | | | |

| ARCHITECTURAL S | SHEETS |
|--------------------------|--------|
| DRAWING TITLE | SHEETS |
| ARCHITECTURAL FLOOR PLAN | AI.I |
| EXTERIOR ELEVATION | A3.1 |
| EXTERIOR ELEVATION | A3.2 |
| EXTERIOR RENDERING | A3.3 |

NOT APPROVED FOR CONSTRUCTION

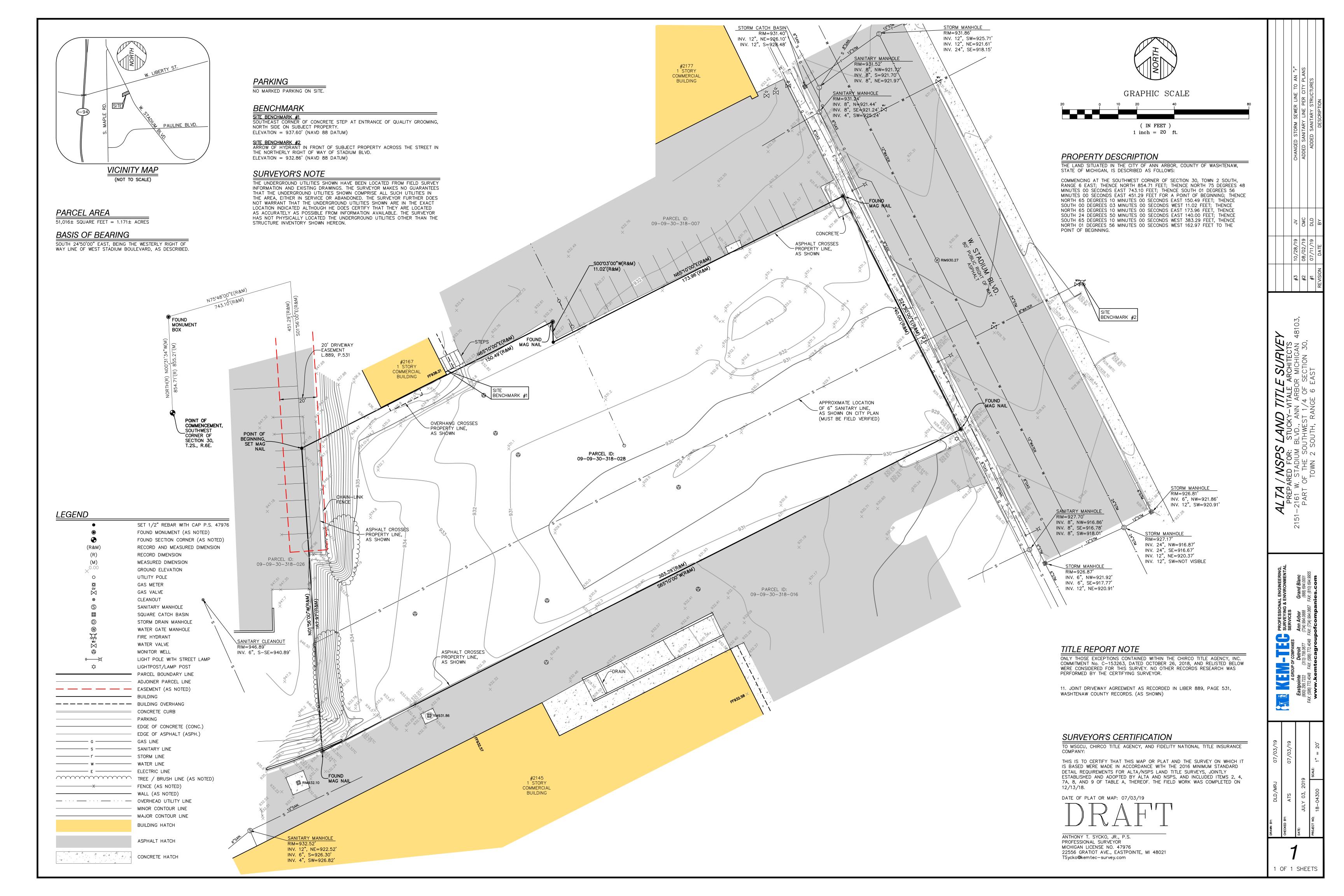


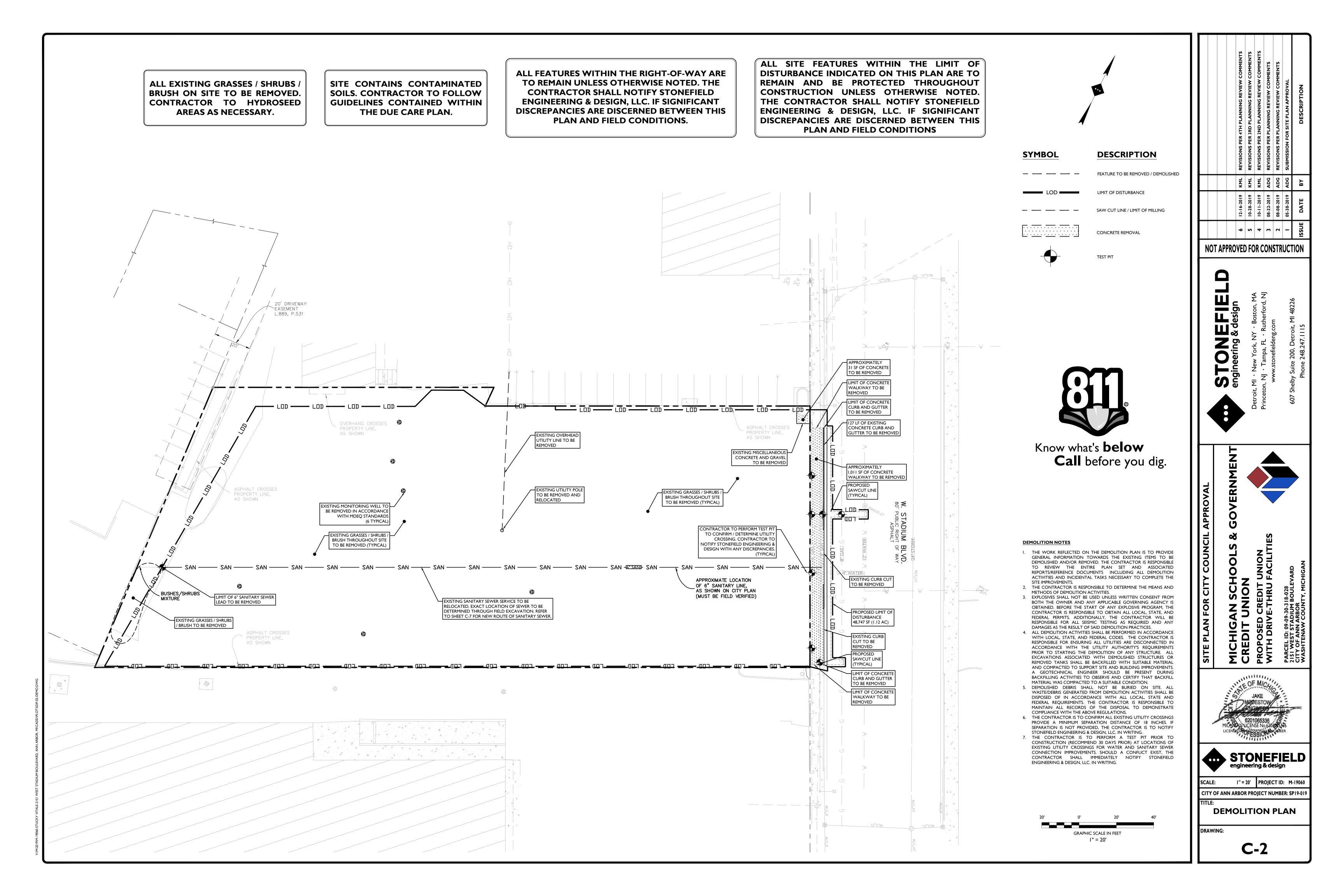
SCALE: AS SHOWN PROJECT ID: M-19060 **CITY OF ANN ARBOR PROJECT NUMBER: SP19-019 COVER SHEET**

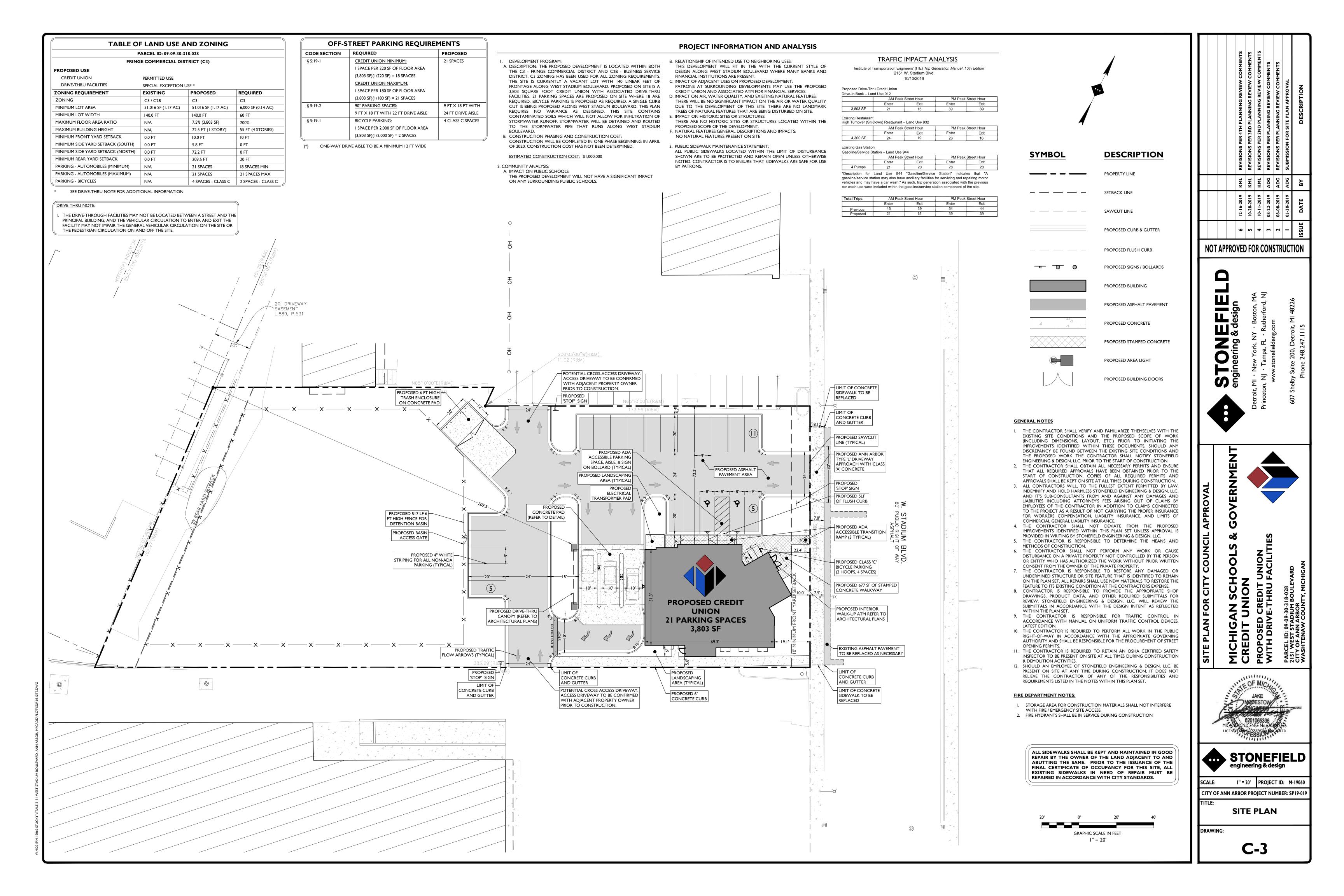
DRAWING:

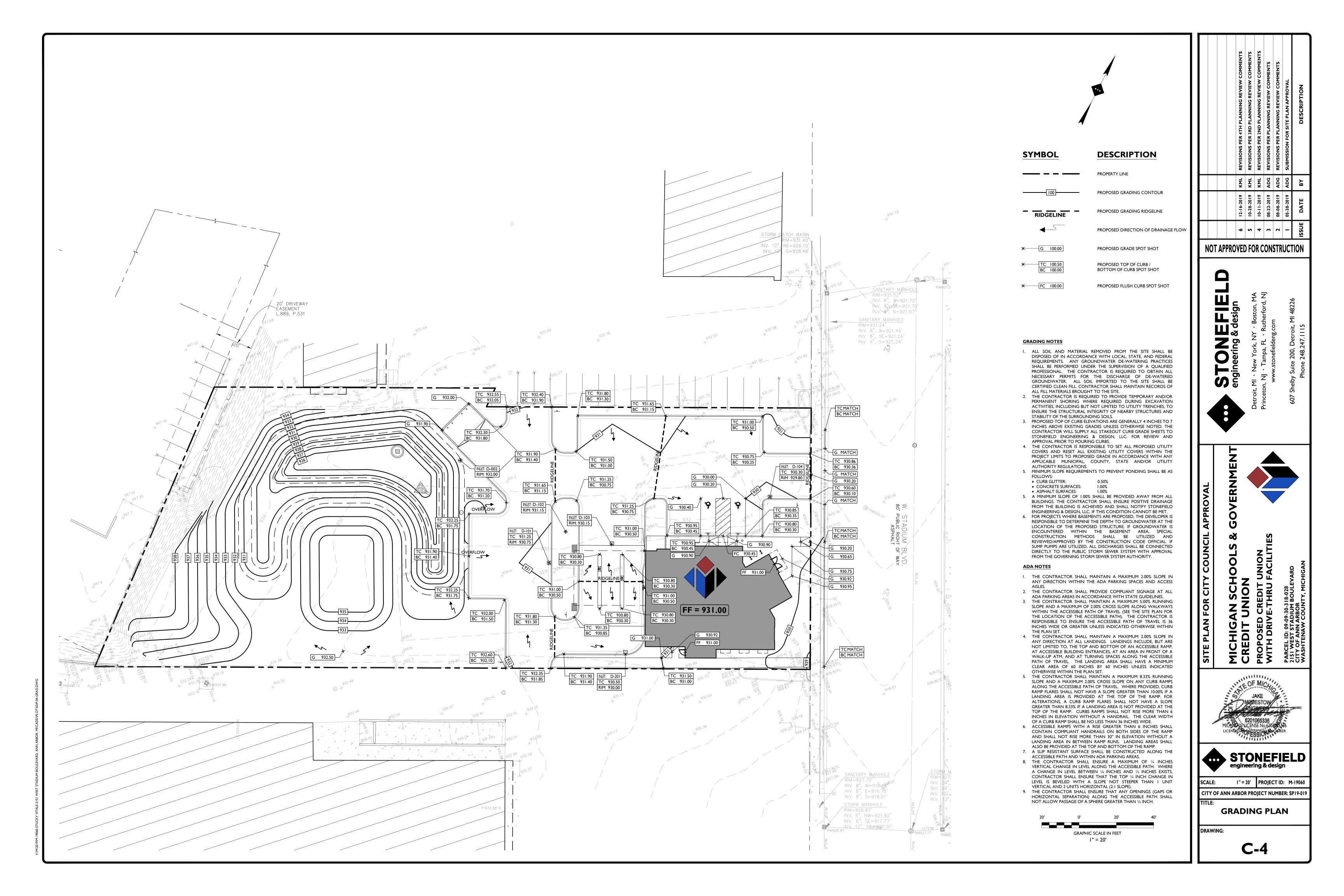
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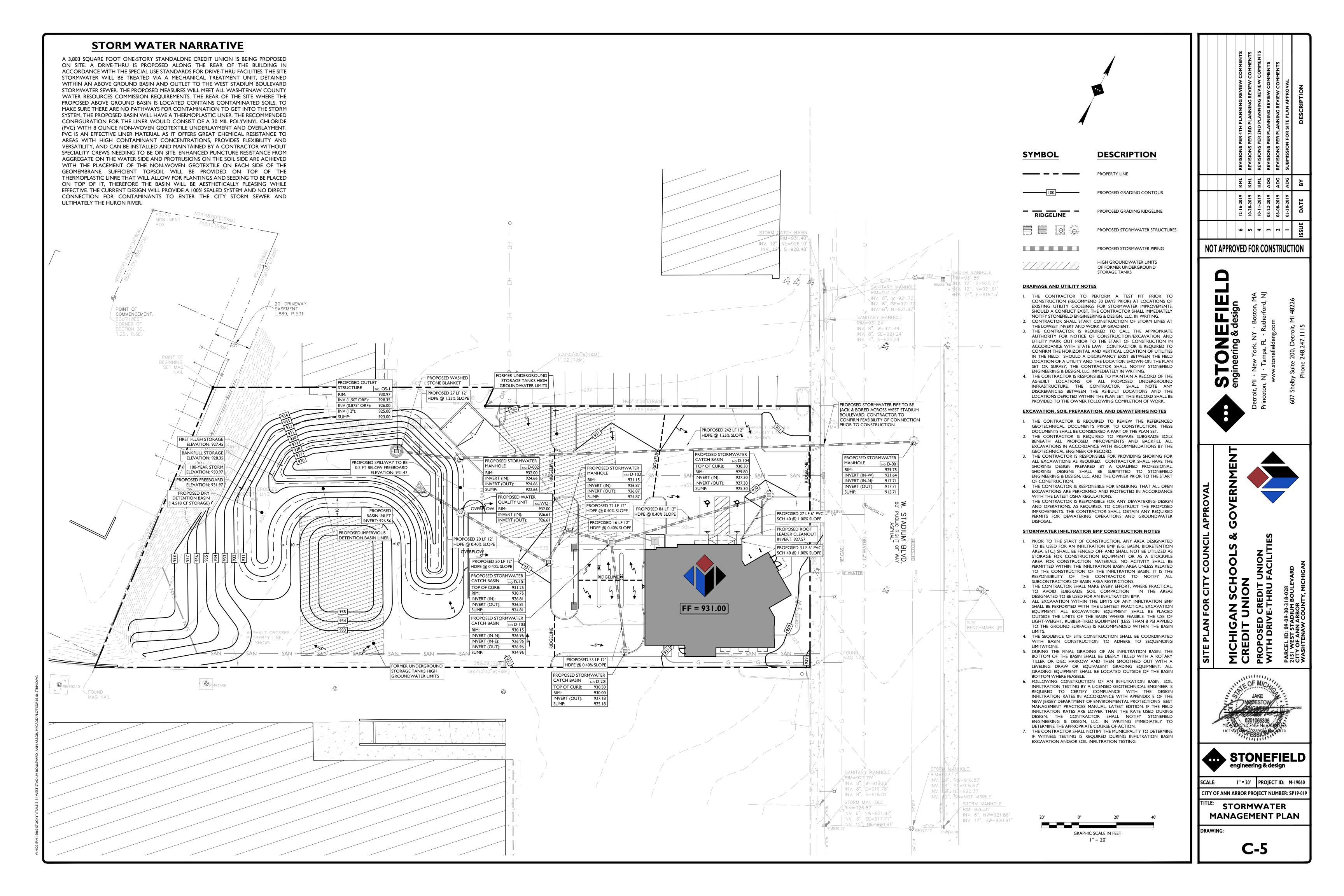
A 3,803 SQUARE FOOT ONE-STORY STANDALONE CREDIT UNION IS BEING PROPOSED ON SITE. A DRIVE-THRU IS PROPOSED ALONG THE REAR OF THE BUILDING IN ACCORDANCE WITH THE SPECIAL USE STANDARDS FOR DRIVE-THRU FACILITIES. THE SITE IS LOCATED WITHIN BOTH THE C3 - FRINGE COMMERCIAL DISTRICT & THE C2B - BUSINESS SERVICE DISTRICT. C3 ZONING HAS BEEN ASSUMED FOR ALL ZONING REQUIREMENTS. PARKING IS PROPOSED ON SITE ALONG WITH ASSOCIATED BICYCLE PARKING IN ACCORDANCE WITH THE CURRENT REQUIREMENTS AND STANDARDS. STORMWATER WILL BE DETAINED AND RELEASED TO THE EXISTING STORM SEWER WITHIN THE WEST STADIUM BOULEVARD RIGHT-OF-WAY. PREVIOUSLY, AN AUTO ZONE WAS APPROVED ON THE PROPERTY. A SPECIAL EXCEPTION USE PETITION (SEU19-003) IS REQUIRED AS PART OF THIS PLAN. A ZONING PETITION (Z19-010) IS REQUIRED TO ZONE THE





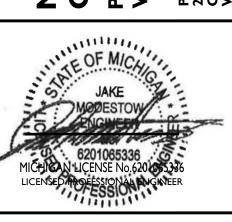






| | IANAGEMENT CALCULATIONS aw County Stormwater Managements Regulations) | | NRCS VARIABLES | | DETENTION STAGED STORAGE VOLUME PROPOS | SED |
|---|--|---|--|---|--|--|
| (Based on Washten | aw County Stormwater Managements Regulations) | | Cover Type (Pre-Development) Soil Type Area (SF) | Curve Number (CN) Weighted Value | FIRST FLUSH: 928.00 - 927.00 | = FF - 927.00 = 927.45 |
| Project: MSGCU Ann Arbor | Designer: KML | Date: 12/16/19 | Meadow B 51,016 x x x x | 58.0 = 2,958,928 = | X _{FF} 3,172 - 1,176 | 2,100 - 1,176 |
| TIONAL METHOD VARIABLES | | | Subtotals 51,016 | 2,958,928 | BANKFULL: 929.00 - 928.00 | = BF - 928.00 = 928.35 4,167 - 3,172 |
| cover Area (SF) | C-Value* | Weighted Value | | | | |
| ng / Roof 4,928 | x 0.90 = | | | Composite CN Value, CN: 58.00 | 100 YEAR: 931.00 - 930.00 | = 100yr - 930.00 = 930.97 |
| ent / Hardscape 16,494 | x 0.90 = | 14,845 | Pervious Cover Type (Post-Development) Soil Type Area (SF) | Curve Number (CN) Weighted Value | X _{100YR} 14,518 - 9,761 | 14,387 - 9,761 |
| Space 29,594 | x 0.20 = | 5,919 | Fully Developed Urban Area (Good Condition) B 29,594 x | 1.000.004 | | |
| ls 51,016 | | 25,199 | x | = | | |
| s obtained from Washtenaw County Water Resources Commissioner | Composite C Valu | 1 e, C: 0.49 | Subtotals 29,594 | 1,805,234 | | |
| FLUSH RUNOFF CALCULATION ($V_{\rm ff}$) | | | 27,371 | | ALLOWABLE RELEASE RATE | |
| (I IN) * (I FT / I2 IN) * (43,560 SF) * A * C | Site Ar | ea, A: 1.17 AC | Impervious Cover Type (Post-Development) Soil Type Area (SF) | Composite CN Value, CN: 61.00 Curve Number (CN) Weighted Value | $Q_{allow} = (0.15 \text{ cfs/acre})(A)$ | |
| | First Flush Runoff Volume | , V _{ff} : 2,099.88 CF | Paved Parking Lots, Roofs, Driveways B 21,422 x | | | |
| | | · · | x | = | $Q_{allow} = (0.15 \text{ cfs/acre})(1.17 \text{ Acres})$ | |
| | | | Subtotals 21,422 | 2,099,356 | Q _{allow} = 0.176 CFS | |
| | | | | Composite CN Value, CN: 98.00 | | |
| DEVELOPMENT BANKFULL RUNOFF CALCULATION (| $(V_{bf	ext{-pre}})$ | | | | | |
| | Rainfall Value (2 Year / 24 Hour Storm Eve | | | | FIRST FLUSH REQUIRED CONTROL ORIFICE SIZE | |
| 1000 / CN) - 10 | Function of Watershed Soil & Cond | | TIME OF CONCENTRATION FOR ARRIVED FOR CARLE TO CARLE TO CARLE | | $H = (2/3)(X_{FF} - X_{BOT}):$ 0.97 FT | Control Orifice Area, A _{FF} : 0.00496 FT |
| (P-0.2*S) ² /(P+0.8*S) | | noff, Q: 0.10 IN | | Total Time of Concentration (T _{c-hrs}): 0.25 HR | $A_{FF} = Q_A / (0.62 * (2 * 32.2 * H)^{0.5})$ | Control Orifice Diameter, D _O : 0.079 FT |
| Area Excluding "Self Crediting" BMPs | | e Area: 51,016.00 SF | RUNOFF SUMMARY | | $D_{FF} = 2 * (A_{FF} / \pi)^{0.5}$ | Orifice Diameter Proposed: 0.875 IN |
| = Q * (1/12) * Area | Pre-Development Bankfull Volume | V _{bf-pre} : 424.50 CF | | First Flush Runoff Volume, V _{ff} : 2,099.88 CF | $Maximum \#_{orif} = A_{FF} / A_{orif} $ 1.03 | # Orifice Proposed: |
| -DEVELOPMENT PERVIOUS BANKFULL RUNOFF CAL | | | | evelopment Bankfull Volume, V _{bf-pre} : 424.50 CF | $Q_{FF} = (0.62) (\#_{ORIF}) (A_{ORIF}) (2 * 32.2 * H)^{0.5}$ 0.0206 | 6 cfs Minimum Detention Time Criteria: 24 HR |
| | Rainfall Value (2 Year / 24 Hour Storm Ev | ent), P: 2.35 IN | Pervious Cover Post Development Bankfull Volume, V _{bf-per-post} : 379.17 | | $T_{FF} = V_{FF} / Q_{FF} $ 28. | |
| 000 / CN) - 10 | Function of Watershed Soil & Cond | ditions: 6.39 IN | Impervious Cover Post Development Bankfull Volume, V _{bf-imp-post} : 3,787.54 | | BANK FULL REQUIRED CONTROL ORIFICE SIZE | |
| P-0.2*S) ² /(P+0.8*S) | Rui | noff, Q : 0.15 IN | | Total Bankfull Volume (V _{bf-post}): 4,166.72 CF | $Maximum \#_{orif} = A_{BF} / A_{orif} $ 0.0 | 77 # Orifice Proposed: 0 |
| | Pervious Cove | r Area: 29,594 SF | Pervious Cover Post Development 100-Year Storm Volume, V _{100-per-post} : 3,540.50 |)_CF | Act | cfs Minimum Detention Time Criteria: 36 - 48 HR |
| -post = Q * (1/12) * Area | Pervious Cover Post Development Bankfull Volume, | V _{bf-per-post} : 379.17 CF | Impervious Cover Post Development 100-Year Storm Volume, V _{100-imp-post} : 8,699.12 | <u>2</u> CF | | .5 HR |
| -DEVELOPMENT IMPERVIOUS BANKFULL RUNOFF C | | \ D 225 IV | | Total 100 Year Volume (V ₁₀₀): 12,239.62 CF | | |
| 000 / CN) - 10 | Rainfall Value (2 Year / 24 Hour Storm Eventual Function of Watershed Soil & Condition of Waters | | ONSITE INFILTRATION REQUIREMENTS | | 100 YEAR STORM REQUIRED CONTROL ORIFICE S | 6IZE |
| P-0.2*S) ² /(P+0.8*S) | | noff, Q: 2.12 IN | | Bankfull Volume Difference, V _{bf-diff} : - CF | $Q_{FF}+Q_{BF} = 0.62(\#_{FForif})(A_{FForif})(2*32.2(X_{100}-X_{BOT})^0.5)$ | +0.62(# _{BForif})(A _{BForif})(2*32.2(X ₁₀₀ -X _{FF}) ^{0.5} 0.0466 cfs |
| | | r Area: 21,422 SF | *Basin to include additional 20% volume if required infiltration is not provided DETENTION REQUIREMENTS | Onsite Infiltration Requirement, V _{inf} : - CF | $Q_{100}^{MAX} = Q_{allow} - (Q_{FF} + Q_{BF})$ | 0.1294 cfs |
| _{p-post} = Q * (I/I2) * Area | Impervious Cover Post Development Bankfull Volume, V | | $Q_p = 238.6*T_c^{-0.82}$ | Peak of the Unit Hydrograph, Q _p : 743.63 CFS / IN-MI ² | $A_{100}^{MAX} = Q_{100}^{MAX}/(0.62*(2*32.2(X_{100}-X_{BF})^{0.5})$ | 0.01607 sf |
| /IOUS COVER POST-DEVELOPMENT 100 YEAR STORM | | B-imp-post | *Site Area Excluding "Self Crediting" BMPs | *Total Site Area: 1.17 AC | Maximum # $_{orif} = A_{SF} / A_{orif}$ 1.3 | # Orifice Proposed: |
| 22 22 20. 22 YELO: HENT TOO TEAM STORM | Rainfall Value (100 Year Storm Eve | en t), P: 5.11 IN | $Q_{100} = Q_{100-per} + Q_{100-imp}$ | 100 Year Storm Runoff, Q ₁₀₀ : 6.31 IN | $Q_{FF} + Q_{BF} + 0.62(\#_{ORIF})(A_{100})(2*32.2*H_{TOT})^{0.5} < Q_{allow}$ | 0.091 cfs |
| 1000 / CN) - 10 | Function of Watershed Soil & Cond | | PF = (Q _p * Q ₁₀₀ * Area) / 640 | Peak Flow, PF: 8.58 CFS | $H_{all} = (2/3)(X_{100} - X_{BF}) + (X_{BF} - X_{BOT})$ 4.10 | 0 FT $Q_{all} = (0.62)(\#_{FForif})(A_{FForif})(2*32.2*H_{all})^{0.5}$ 0.042 cfs |
| per = (P-0.2*S) ² /(P+0.8*S) | Runoff, | | $\Delta = PF - (0.15 * Area)$ | Δ: 8.41 CFS | $H_{\text{ave}}^{BF} = (2/3)(X_{100} - X_{BF}) + (X_{BF} - X_{FF})$ 2.65 | 5 FT $Q_{BF+100} = (0.62)(\#_{BForif})(A_{BForif})(2*32.2*H_{ave}^{BF})^{0.5}$ - cfs |
| per (* | in in its analysis of the interest of the inte | -199-bet-1 | $V_{\text{det}} = (\Delta / PF) * V_{100} - V_{\text{inf}}$ | Required Detention Volume, V _{det} : 11,989.15 CF | $H^{100}_{ave} = (2/3)(X_{100} - X_{BF})$ 1.75 | 5 FT $Q_{\text{ave}}^{100} = (0.62)(\#_{100\text{orif}})(A_{100\text{orif}})(2*32.2*H_{\text{ave}}^{100})^{0.5}$ 0.081 cfs |
| | Parvious Covo | r Area: 29,594 SF | | on Volume W/Out Infiltration, Vdet: 14,386.98 CF | $V_{REM} = V_{100} - V_{BF}$ 10,220 | 0 CF $T_{100} = T_{BF} + V_{REM} / (Q_{all} + Q_{BF+100} + Q_{ave}^{100})$ 67.28 HR |
| _{pr-post} = Q * (1/12) * Area | Pervious Cover Post Development 100-Year Volume, V | <u> </u> | | ii voidine vvi Out iiiiitration, vdet: 14,366.78 CF | | Minimum Detention Time Criteria: 72 HR |
| er-post v (1112) Al Ca | Core i ose Bereiopinent 100- i ear voiume, v | 100-per-post- 3,3 10.30 CI | ABOVEGROUND BASIN VOLUME PROVIDED | B | | |
| RVIOUS COVER POST-DEVELOPMENT 100 YEAR STOP | RM RUNOFF CALCULATION (V _{100-imp-post}) | | Elevation Surface Area (SF) Total Volume (CF) 926.00 875 0 | Basin Height, H: 5.00 FT | | |
| | Rainfall Value (100 Year Storm Ev | ent), P: 5.11 IN | 927.00 1,546 1,211 928.00 2,377 3,172 | Basin volume calculated based on a trapezoidal prism | | |
| (1000 / CN) - 10 | Function of Watershed Soil & Cond | ditions: 0.20 IN | 929.00 3,277 5,999 930.00 4,246 9,761 | | | |
| $_{-imp} = (P-0.2*S)^2/(P+0.8*S)$ | Runoff, C | 2 _{100-imp} : 4.87 IN | 931.00 5,269 14,518 | | | |
| | Impervious Cove | r Area: 21,422 SF | | | | |
| _{mp-post} = Q * (1/12) * Area | Impervious Cover Post Development I00-Yr Vol, V | 00-imp-post: 8,699.12 CF | | | | |

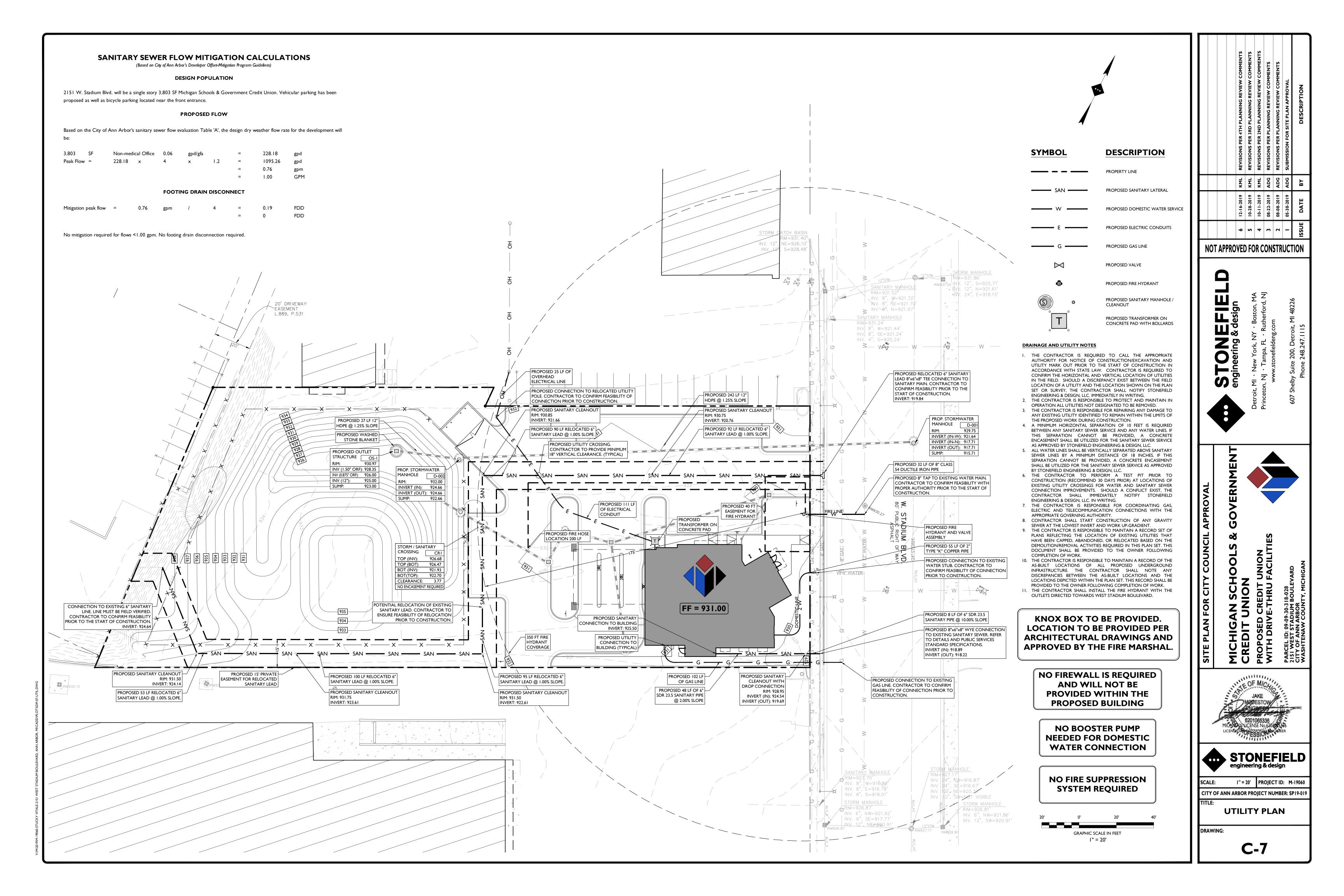
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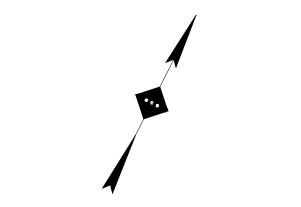
SCALE: AS SHOWN PROJECT ID: M-19060 CITY OF ANN ARBOR PROJECT NUMBER: SP19-019

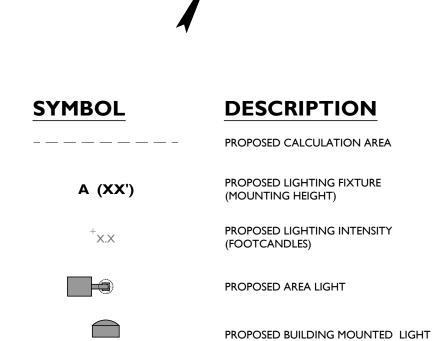
TITLE: STORMWATER **MANAGEMENT PLAN**



| | | | PROPOSED LU | MINARIES SC | HEDUL | E | | |
|--------|-------|----------|------------------------------------|--------------|-------|-------|----------------------|-------------------------------|
| SYMBOL | LABEL | QUANTITY | SECURITY LIGHTING | DISTRIBUTION | LLF | WATTS | MANUFACTURER | IES FILE |
| | A | 2 | D-SERIES SIZE I LED AREA LUMINAIRE | II | 0.90 | 70 | LITHONIA LIGHTING | DSXI_LED_P2_40K_T4M_MVOLT_HS |
| | В | I | D-SERIES SIZE I LED AREA LUMINAIRE | IV | 0.90 | 70 | LITHONIA LIGHTING | DSXI_LED_P2_40K_T4M_MVOLT_HS |
| | С | 4 | KACM LED SURFACE LUMINAIRE | ٧ | 0.90 | 46 | LITHONIA LIGHTING | KACM_LED_20C_700_40K_R5_MVOLT |
| | D | 3 | WST LED ARCHITECTURAL WALL SCONCE | vw | 0.90 | 30 | LITHONIA LIGHTING | WST_LED_P2_40K_VW_MVOLT_VG |

| LIGHTING REQUIREMENTS | | |
|-----------------------|--|----------|
| CODE SECTION | REQUIRED | PROPOSED |
| § 5.25.2 | ALL EXTERIOR LIGHTING SHALL BE ADEQUATELY SHIELDED SO THAT LIGHT IS DIRECTED AWAY FROM PUBLIC RIGHT-OF-WAYS AND ADJACENT PROPERTIES. | COMPLIES |
| § 5.24.3 | MINIMUM ILLUMINATION LEVELS: PARKING LOTS - 0.6 FOOTCANDLES BICYCLE PARKING - 0.4 FOOTCANDLES MAX UNIFORMITY RATIO - 10:1 | COMPLIES |





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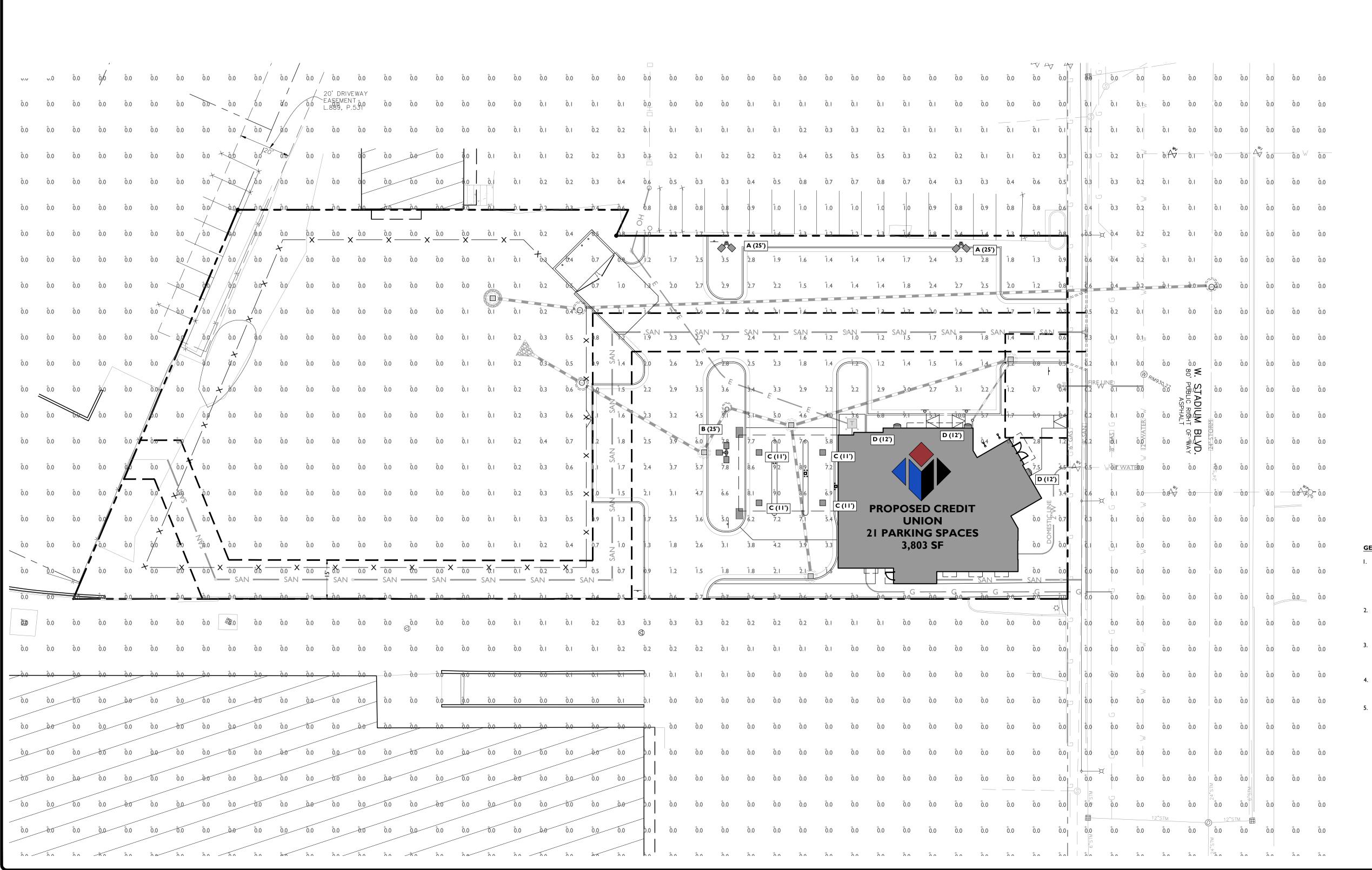




I" = 20' PROJECT ID: M-19060 CITY OF ANN ARBOR PROJECT NUMBER: SP19-019

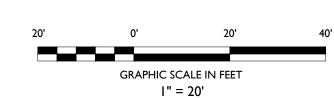
LIGHTING PLAN

DRAWING:



GENERAL LIGHTING NOTES

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



| | | PLANT SO | CHEDULE | | |
|----------------|-----------------|-----------------------------------|---------------------------|----------|-----------|
| PLANT KEY | QUANTITY | BOTANICAL NAME | COMMON NAME | SIZE | REMARKS |
| DECIDUOUS TRE | EES (TOTAL 8) | 1 | | | |
| LIQ. STY. | 5 | LIQUIDAMBAR STYRACIFLUA | SLENDER SILHOUETTE | 2.5" CAL | B&B |
| MAL. RED. | 3 | MALUS 'RED BARON' | RED BARON CRAB APPLE | 2.5" CAL | B&B |
| EVERGREEN SHR | RUBS (TOTAL 69) | | | | |
| TAX. DEN. | 19 | TAXUS MEDIA 'DENSIFORMIS' | DENSE YEW | 2'-0" | CONT. |
| TAX. MOO. | 50 | TAXUS MEDIA 'MOON' | MOON YEW | 2'-6" | B&B |
| DECIDUOUS SHE | RUBS (TOTAL 88) | 1 | | | ' |
| RED. SPR. | 48 | ILEX VERTICILLATA 'RED SPRITE' | RED SPRITE WINTERBERRY | 30" | B&B |
| ARO. MEL. | 40 | ARONIA MELANOCARPA | BLACK CHOKEBERRY | 30" | B&B |
| PERENNIALS (TO | OTAL 161) | | | | ' |
| SCI. ACU. | 84 | SCIRPUS ACUTUS | HARD STEM BULRUSH | 4' | BARE ROOT |
| SPI. JAP. | 76 | SPIREA JAPONICA 'LITTLE PRINCESS' | LITTLE PRINCESS SPIREA | 1'-6" | CONT. |
| HYD. PAN. | I | HYDRANGEA PANICULATA 'LIMELIGHT' | LIMELIGHT HARDY HYDRANGEA | 5 GAL | CONT. |
| GROUND COVER | R (TOTAL 67) | | | | |
| FES. GLA. | 23 | FESTUCA GLAUCA 'ELIJAH BLUE' | ELIJAH BLUE FESCUE | I GAL | CONT. |
| SCH. SCO. | 44 | SCHIZACHYRIOM SCOPARIOM | LITTLE BLUESTEM | I GAL | CONT. |

| NOTE: IF ANY DISCREPANCIES OCCUR BETWEEN AMOUNTS SHOWN ON THE LANDSCAPE PLAN AND WITHIN THE I | PLANT LIST, THE PLAN SHALL DICTATE. |
|---|-------------------------------------|
| | , |

| LAND | SCAPING AND BUFFER REQUIREM | 1ENTS | |
|--------------|--|----------|--|
| CODE SECTION | REQUIRED | PROPOSED | |
| § 5.20.3-A.1 | PARKING AREA BUFFER WIDTH: | I0 FT | |
| | MINIMUM 10 FT BUFFER STRIP BETWEEN PARKING | | |
| | AREA AND RIGHT-OF-WAY | | |
| § 5.20.3-A.2 | PARKING AREA BUFFER: | 5 TREES | |
| | I DECIDUOUS SHADE TREE OR EVERGREEN TREE | | |
| | PER 30 FT OF PUBLIC RIGHT-OF-WAY | | |
| | (140 LF)(1/30 LF) = 5 TREES | | |
| § 5.20.3-A.3 | PARKING AREA SCREENING: | PROVIDED | |
| | A 30 INCH HIGH SCREENING WALL OR HEDGE ROW | | |
| | SHALL BE PLACED WITHIN THE FRONT LANDSCAPE | | |
| | AREA ALONG THE PARKING AREA | | |
| § 5.20.3-B.1 | INTERIOR LANDSCAPE ISLANDS: | COMPLIES | |
| § 5.20.3-B.2 | I SF PER 20 SF OF PARKING AREA | 1,084 SF | |
| | MINIMUM 165 SF PER ISLAND | | |
| | (9,192 SF) X (1/20 SF) = 460 SF REQUIRED | | |
| § 5.20.3-B.5 | I DECIDUOUS SHADE TREE PER 250 SF REQUIRED | 3 TREES | |
| | (460 SF) X (1/250 SF) = 2 TREES | | |

| | TREE KEY | | | | |
|-------------------|-----------|----------------------|--|--|--|
| PLANT KEY | PLANT KEY | COMMON NAME | | | |
| DECIDUOUS TREES | 1 | | | | |
| 33 + 1 | LIQ. STY. | SLENDER SILHOUETTE | | | |
| | MAL. RED. | RED BARON CRAB APPLE | | | |

IRRIGATION NOTES:

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

LANDSCAPING NOTES:

- I. THE CONTRACTOR SHALL RESTORE ALL DISTURBED GRASS AND LANDSCAPED AREAS TO MATCH EXISTING CONDITIONS UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET. 2. THE CONTRACTOR SHALL RESTORE ALL DISTURBED LAWN AREAS WITH A MINIMUM 4 INCH LAYER OF TOPSOIL AND SEED.
- 3. THE CONTRACTOR SHALL RESTORE MULCH AREAS WITH A MINIMUM 3 INCH LAYER OF MULCH. 4. THE MAXIMUM SLOPE ALLOWABLE IN LANDSCAPE RESTORATION AREAS SHALL BE 3 FEET HORIZONTAL TO 1 FOOT VERTICAL (3:1 SLOPE) UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET.
- 5. THE CONTRACTOR IS REQUIRED TO LOCATE ALL SPRINKLER HEADS IN AREA OF LANDSCAPING DISTURBANCE PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL RELOCATE SPRINKLER HEADS AND LINES IN ACCORDANCE WITH OWNER'S DIRECTION WITHIN AREAS OF DISTURBANCE. 6. THE CONTRACTOR SHALL ENSURE THAT ALL DISTURBED LANDSCAPED AREAS ARE GRADED TO MEET FLUSH AT THE ELEVATION OF WALKWAYS AND TOP OF CURB ELEVATIONS EXCEPT UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET. NO ABRUPT
- CHANGES IN GRADE ARE PERMITTED IN DISTURBED LANDSCAPING 7. ALL DISEASED, DAMAGED OR DEAD MATERIAL TO BE REPLACED ACCORDING TO THE STANDARDS OUTLINED WITHIN CHAPTER 55 OF THE ANN ARBOR UNIFIED DEVELOPMENT CODE FOR THE
- DURATION OF THE SITE PLAN. 8. ALL PLANT SPECIES DEVIATIONS FROM THE APPROVED SITE PLAN MUST BE APPROVED BY THE CITY OF ANN ARBOR PRIOR TO INSTALLATION.

SNOW REMOVAL NOTES:

I.SNOW SHALL NOT BE STORED WITHIN ANY INTERIOR LANDSCAPED ISLAND OR WITHIN ANY AREA DESIGNATED FOR PARKING OR LOADING.

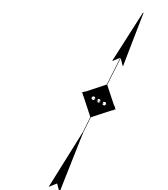
FERTILIZATION NOTE:

I. APPLICATIONS OF FERTILIZER BEYOND THE INITIAL TOPSOIL AND SEEDING SHALL BE FERTILIZER WITH NO PHOSPHOROUS.

SOIL COMPACTION NOTE:

- I. ONCE FINE GRADING HAS BEEN COMPLETED, HEAVY MACHINERY SHALL NOT BE USED WITHIN PLANTING AREAS TO PREVENT COMPACTION. IN ALL PLANTING AREAS WHERE SOIL COMPACTION HAS OCCURRED DURING CONSTRUCTION, SOIL SHALL BE TILLED TO THE DEPTH OF THE PROPOSED ROOT BALL OF THE PLANTINGS
- OR 4" DEPTH FOR SEEDED AREAS PRIOR TO THE PLANING. 2. OVER EXCAVATE SIDES OF PLANTING PITS IN COMPACTED SOIL

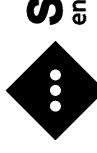
STORMWATER DETENTION POND TOPSOIL TO BE AMENDED WITH ORGANIC MATERIAL SOILS AND MUST BE FREE OF CONSTRUCTION DEBRIS AND SUBSOILS. THE SOIL SHALL CONTAIN BETWEEN 20-30 PERCENT COMPOST.



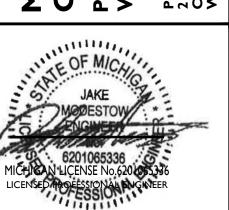
+ + + + + + + + + + + + + + PROPOSED MULCH + + + + + +

+ + + + + + < < < < < < < PROPOSED SEEDED AREA < < < < < < <

NOT APPROVED FOR CONSTRUCTION



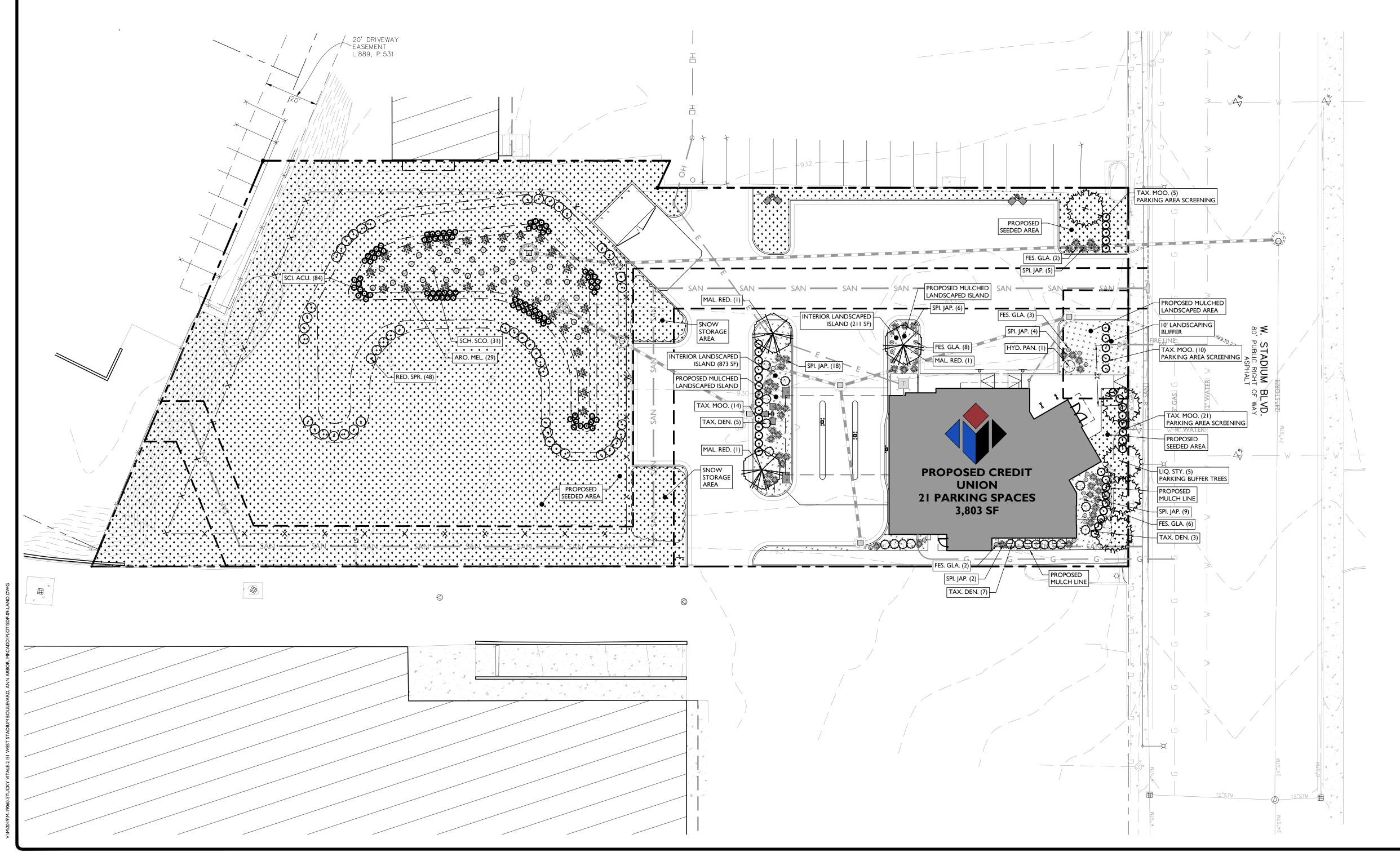


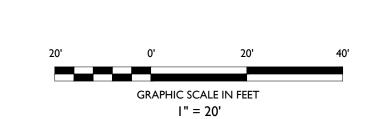


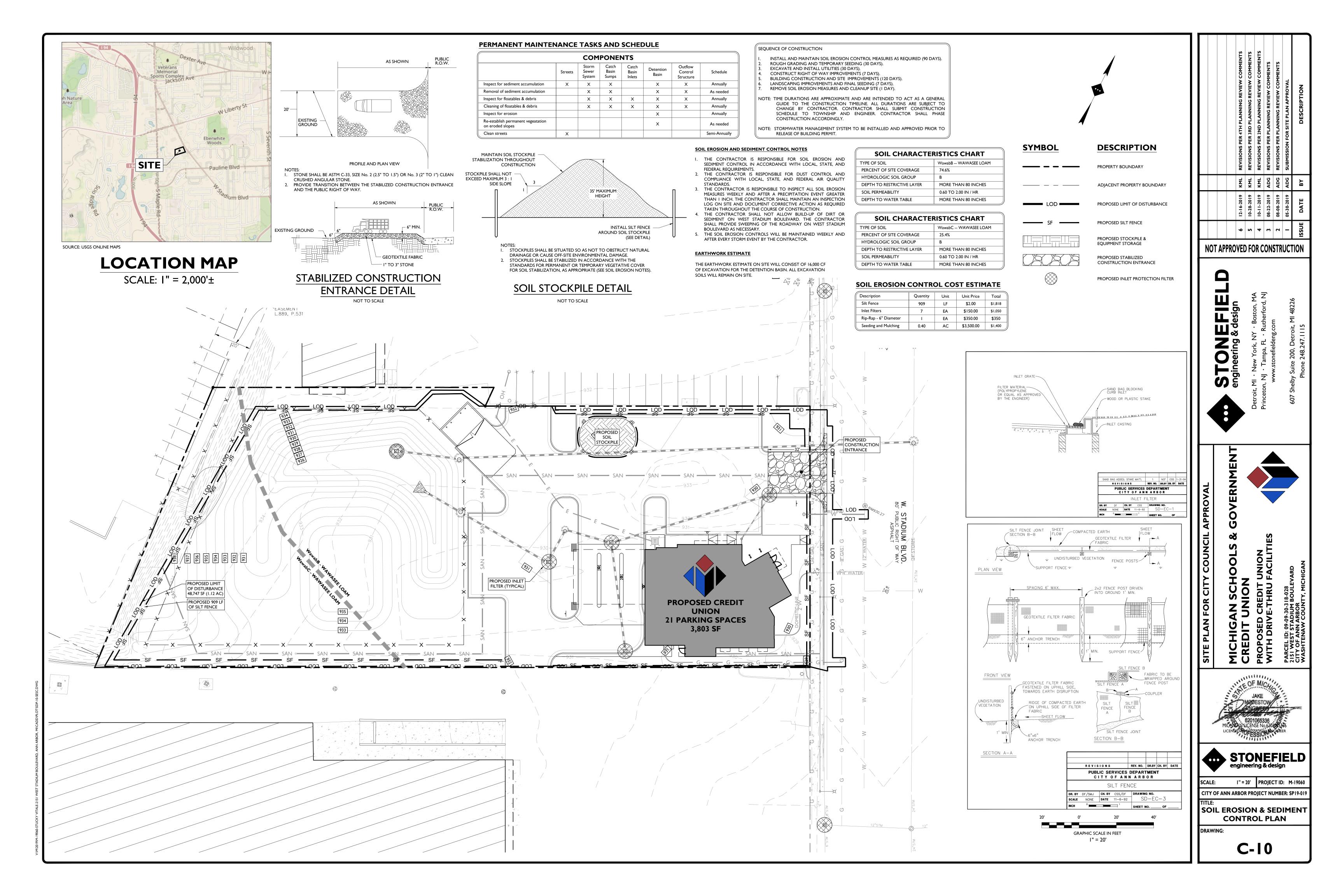


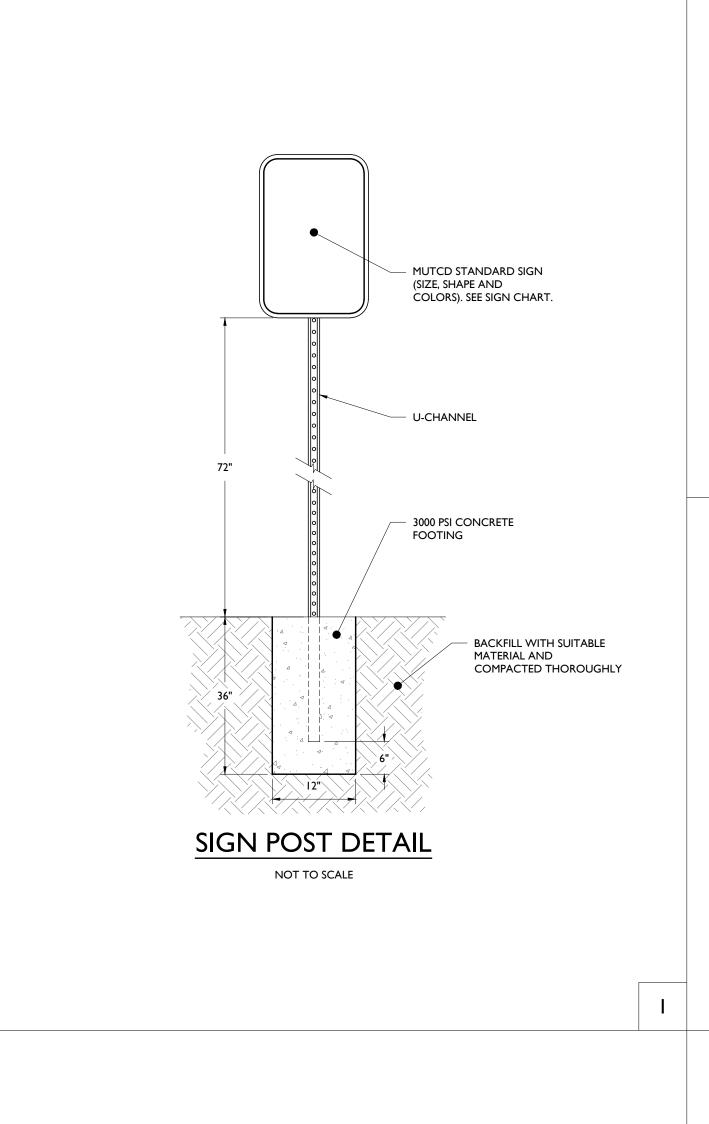
LANDSCAPING PLAN

DRAWING:





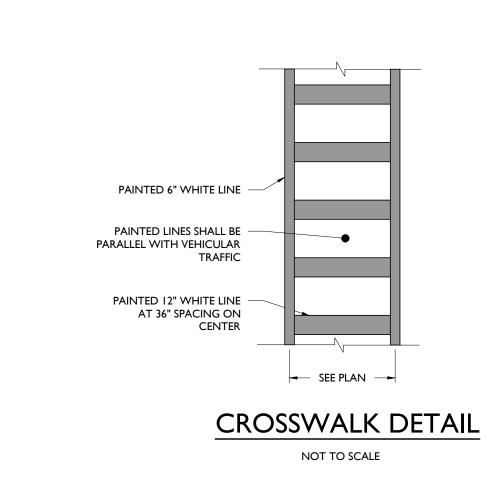




PAINTED 24" WHITE LINE

PAINTED WHITE LETTERING

CONSTRUCTION.

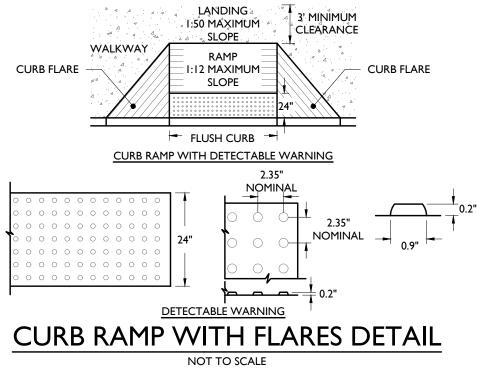


| M.U.T.C.D. NUMBER | TEXT | COLOR | | SIZE OF SIGN (WIDTH X | TYPE OF |
|----------------------------------|-----------------|--------|------------|--------------------------|---------|
| | | LEGEND | BACKGROUND | HEIGHT) | MOUNT |
| DO NOT ENTER (R5-I) | DO NOT ENTER | RED | WHITE | 30"×30" | GROUND |
| STOP SIGN (R1-1) | STOP | RED | WHITE | 36"×36" | GROUND |
| PEDESTRIAN TRAFFIC (WII-2) | ** | BLACK | YELLOW | 30"×30" | GROUND |

I. ALL SIGNS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), EXCEPT AS NOTED. 2. ALL SIGNS SHALL BE MOUNTED AS TO NOT OBSTRUCT THE SHAPE OF "STOP" (RI-I) AND "YIELD" (RI-2) SIGNS.

SIGN DATA TABLE

NOT TO SCALE



NOT TO SCALE

STOP BAR & ARROW DETAILS

PAINTED WHITE SYMBOL

NOT TO SCALE

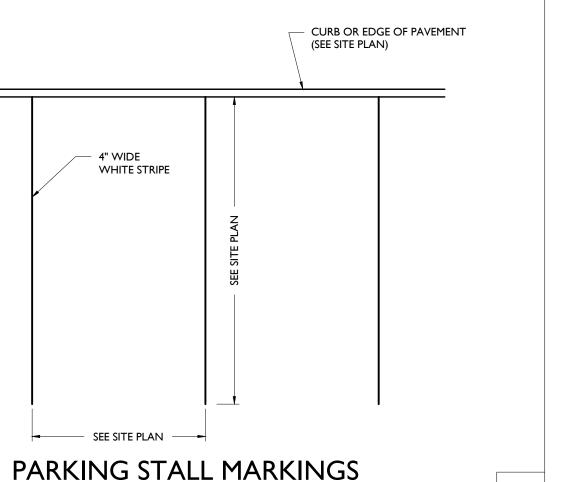
I. CROSS SLOPE ON RAMP SHALL NOT EXCEED 1:50 SLOPE.

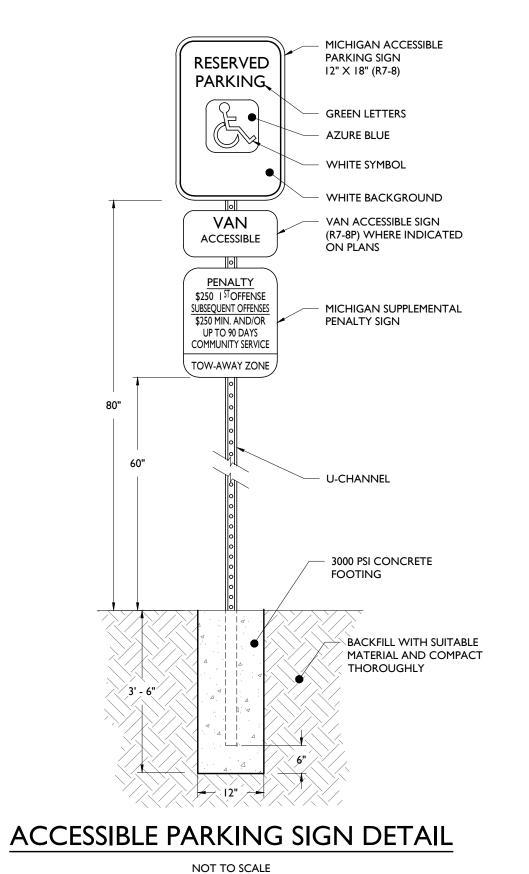
2. DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES. VISUAL CONTRAST: THERE SHALL BE A MINIMUM OF 70% CONTRAST IN LIGHT REFLECTANCE BETWEEN THE DETECTABLE WARNING AND AN ADJOINING SURFACE. I. DETECTABLE WARNING STRIP REQUIRED WHERE RAMP DIRECTS PEDESTRIAN TRAFFIC TOWARDS VEHICLE TRAVEL WAY. WARNING STRIP SHALL BE CAST-IN-PLACE.
WHERE A 60" X 60" LANDING EXISTS AT THE TOP OF RAMP, RAMP FLARE SHALL NOT EXCEED 1:10 SLOPE.

WHERE LANDING IS NOT PROVIDED RAMP FLARE SHALL NOT EXCEED 1:12 SLOPE. A FLUSH CURB SHALL HAVE A MINIMUM WIDTH OF 36". SEE PLAN FOR EXACT WIDTH.

RAMP SHALL HAVE A MAXIMUM RISE OF 6" WITHOUT A HANDRAIL.

2" THICK, HMA SURFACE COURSE 2" THICK, HMA BASE COURSE -NEW ASPHALT - EXISTING ASPHALT 4" WIDE WHITE STRIPE MILLED ASPHALT KEY I" DEEP X 12" WIDE HOT TAR SEAL 6" THICK, APPROVED DENSE GRADED AGGREGATE SAW CUT AND HOT TAR SEAL APPROVED COMPACTED SUBGRADE FULL DEPTH ASPHALT PAVEMENT DETAIL NOT TO SCALE I. HMA MIX AND DENSE GRADED AGGREGATE SHALL CONFORM TO STATE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS. - SEE SITE PLAN -2. CONTRACTOR SHALL REFER TO GEOTECHNICAL REPORT PRIOR TO

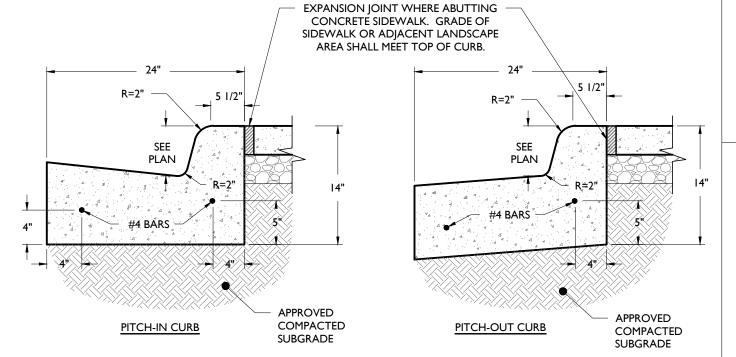




REFLECTIVE YELLOW TAPE 4" OR 6" Ø STEEL PIPE FILLED WITH CONCRETE AND PAINTED OR COVERED WITH SLEEVE (CLIENT PREFERENCE) 4,500 PSI CONCRETE **FOOTING** APPROVED COMPACTED

CONCRETE BOLLARD **DETAIL**

NOT TO SCALE



CONCRETE CURB AND GUTTER DETAIL

NOT TO SCALE

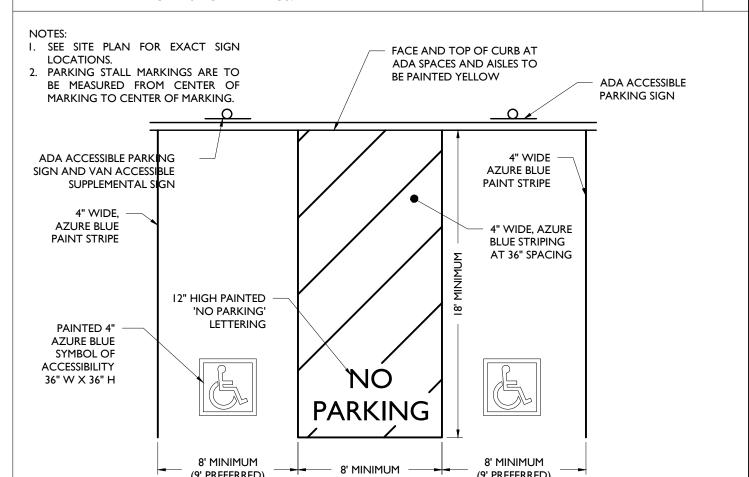
. CONCRETE SHALL BE 3500 PSI AT 28 DAYS, AIR-ENTRAINED. 2. TRANSVERSE EXPANSION JOINTS SHALL BE PROVIDED AT 20 FOOT INTERVALS WITH PRE-MOLDED, BITUMINOUS JOINT FILLER, RECESSED 1/4" FROM SURFACE.

HALF DEPTH CONTRACTION JOINTS SHALL BE PROVIDED AT 10 FOOT INTERVALS. 4. 14" CURB DEPTH SHALL BE MAINTAINED AT DEPRESSED OR FLUSH CURBED AREAS.

PAVEMENT STRIPING & MARKINGS NOTES:

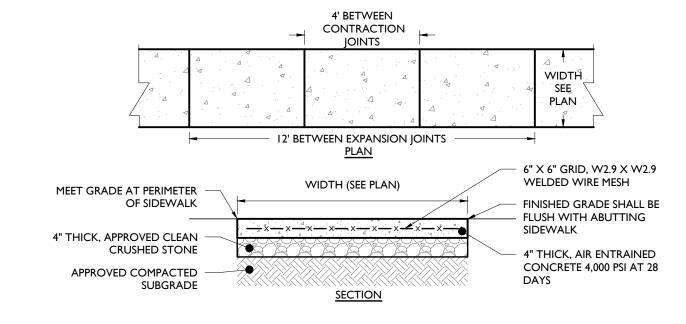
- I. ALL SIGNING AND STRIPING IN EXISTING CONDITION IN CONFLICT WITH THE PROPOSED DESIGN PLAN SHALL BE REMOVED.
- 2. ALL PROPOSED SIGNING AND STRIPING SHALL CONFORM TO THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PUBLISHED BY THE FEDERAL HIGHWAY
- 3. PAVEMENT STRIPING AND MARKINGS SHALL BE INSTALLED IN CONFORMANCE WITH ALL
- APPLICABLE LOCAL, COUNTY AND STATE REQUIREMENTS.
- 4. UNLESS OTHERWISE SPECIFIED, ALL STRIPING AND MARKINGS IN THE PUBLIC RIGHT-OF-WAY SHALL BE OF THERMOPLASTIC PAINT OR PREFORMED THERMOPLASTIC MARKINGS.

UNLESS OTHERWISE SPECIFIED, ON SITE PARKING STALL STRIPING, FIRE LANE STRIPING AND DIRECTIONAL ARROWS SHALL BE EPOXY PAINT. ON SITE STOP BARS, "DO NOT ENTER" BARS, AND ASSOCIATED LETTERING SHALL BE THERMOPLASTIC PAINT OR PREFORMED THERMOPLASTIC MARKINGS.



ACCESSIBLE PARKING STALL MARKINGS

NOT TO SCALE



REINFORCED CONCRETE WALKWAY DETAIL

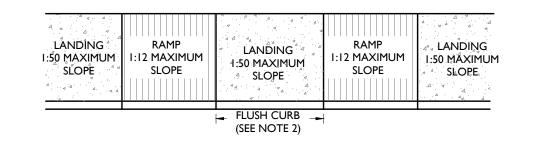
NOT TO SCALE

- I. MAXIMUM CROSS SLOPE SHALL BE 1/4" PER FOOT. 4" EXPANSION JOINTS SHALL BE PROVIDED AT 12' INTERVALS WITH PRE-MOLDED, BITUMINOUS JOINT FILLER, RECESSED 4" FROM THE SURFACE.
- B. I" DEEP BY $\frac{1}{4}$ " WIDE, TOOLED CONTRACTION JOINTS SHALL BE PROVIDED AT 4' INTERVALS. 4. EXPANSION JOIN SHALL BE PROVIDED WHERE ADJACENT TO A BUILDING.

HOT TAR SEAL APPROVED DENSE ASPHALT → CONCRETE GRADED AGGREGATE

CONCRETE TO ASPHALT TRANSITION DETAIL

NOT TO SCALE



TRANSITION RAMP DETAIL

I. CROSS SLOPE ON RAMP SHALL NOT EXCEED 2% 2. A FLUSH CURB SHALL HAVE A MINIMUM WIDTH OF 36", SEE PLAN FOR EXACT WIDTH.

10

3. RAMP SHALL HAVE A MAXIMUM RISE OF 6" WITHOUT A HANDRAIL

NOT APPROVED FOR CONSTRUCTION

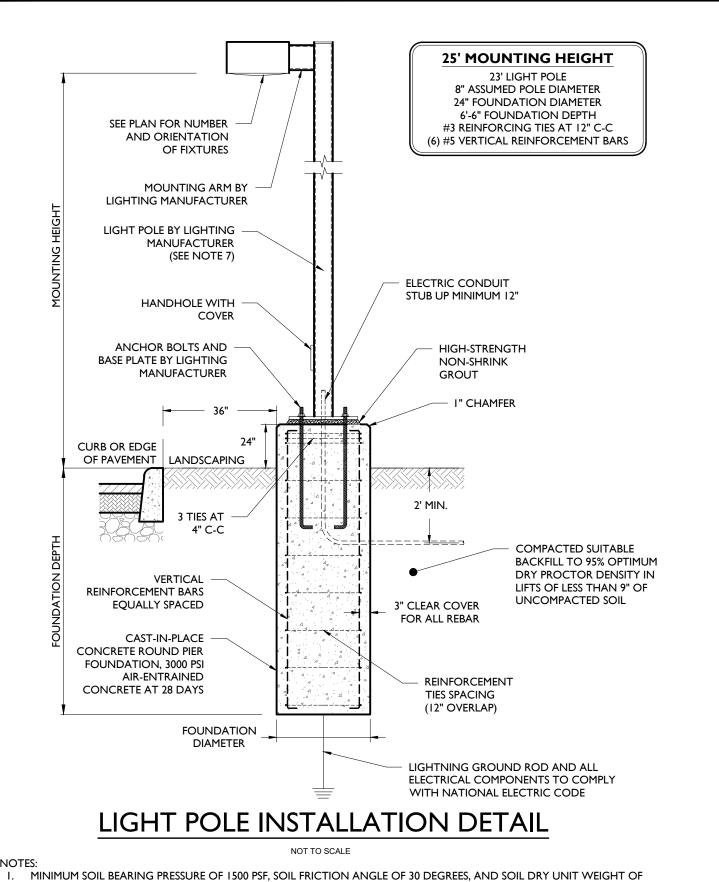


SCALE: AS SHOWN PROJECT ID: M-19060 CITY OF ANN ARBOR PROJECT NUMBER: SP19-019

CONSTRUCTION

DETAILS DRAWING:

C-II



I. MINIMUM SOIL BEARING PRESSURE OF 1500 PSF, SOIL FRICTION ANGLE OF 30 DEGREES, AND SOIL DRY UNIT WEIGHT OF 120 PCF SHALL BE CONFIRMED IN THE FIELD BY A QUALIFIED PROFESSIONAL. . CAST-IN-PLACE CONCRETE SHALL BE CONSOLIDATED USING VIBRATOR.

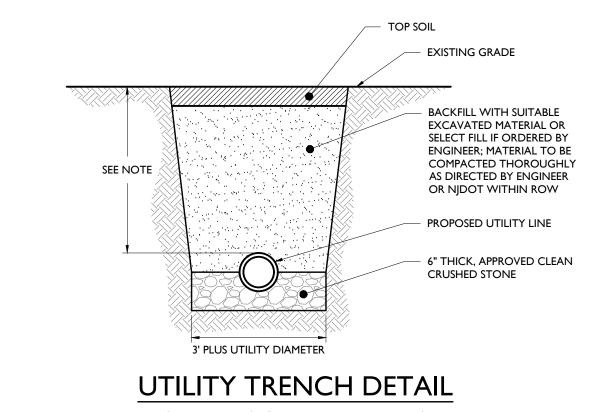
. ALL REBAR TO BE NEW GRADE 60 STEEL. FRE-CAST PIERS ACCEPTABLE UPON WRITTEN APPROVAL OF SHOP DRAWING BY ENGINEER.

5. CONCRETE TO BE INSTALLED A MINIMUM OF 7 DAYS PRIOR TO INSTALLING LIGHT POLE. POURED CONCRETE MIX REQUIRED TO OBTAIN 80% OF DESIGN STRENGTH PRIOR TO INSTALLING LIGHT POLE.

5. CONCRETE SHALL HAVE A MAXIMUM SLUMP OF 4" (WITHIN I" TOLERANCE). 7. POLE SHALL BE RATED FOR 10 MPH HIGHER THAN MAXIMUM WIND SPEED 33FT ABOVE GROUND FOR THE AREA BASED ON ANSI/ASCE 7-93.

8. POUR TO BE TERMINATED AT A FORM.

9. WORK SHALL CONFORM TO ACI BEST PRACTICES FOR APPROPRIATE TEMPERATURE AND WEATHER CONDITIONS. 10. CONTRACTOR TO TEMPORARILY SUPPORT ADJACENT SOIL AND STRUCTURES DURING EXCAVATION IF REQUIRED.

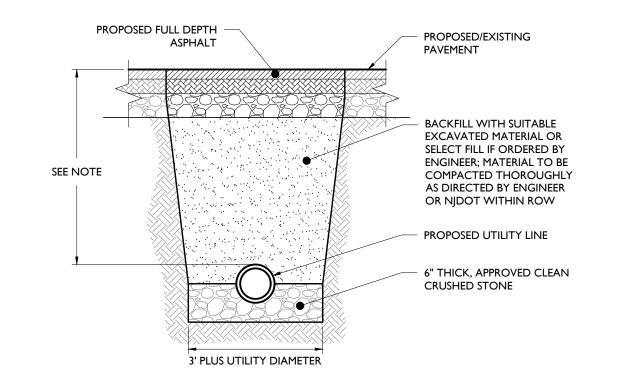


(LANDSCAPED AREA)

NOT TO SCALE

MINIMUM PIPE COVER SHALL BE AS FOLLOW: WATER - 48" MIN, • STORM DRAIN - SEE DRAINAGE PLAN

NOTE:

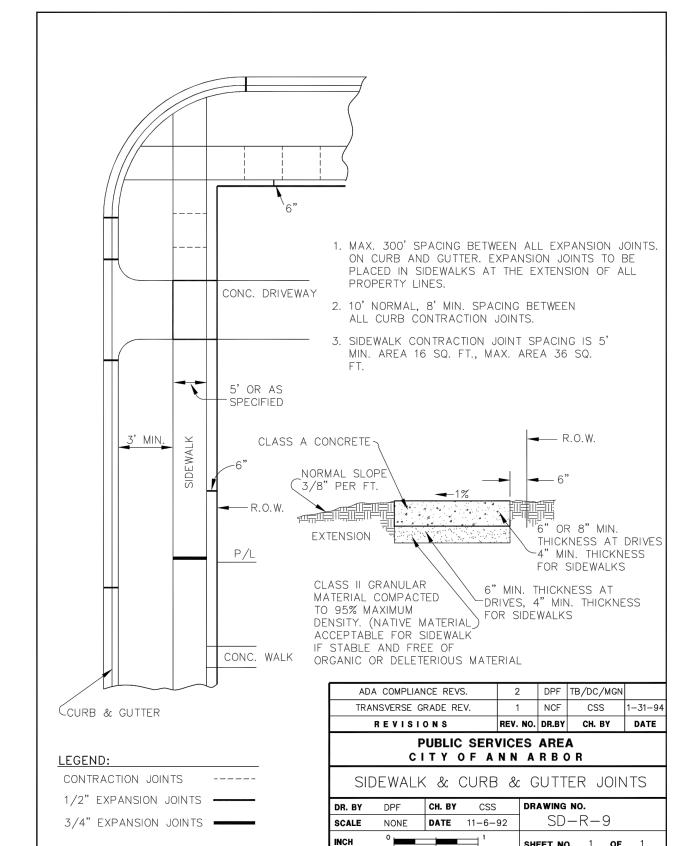


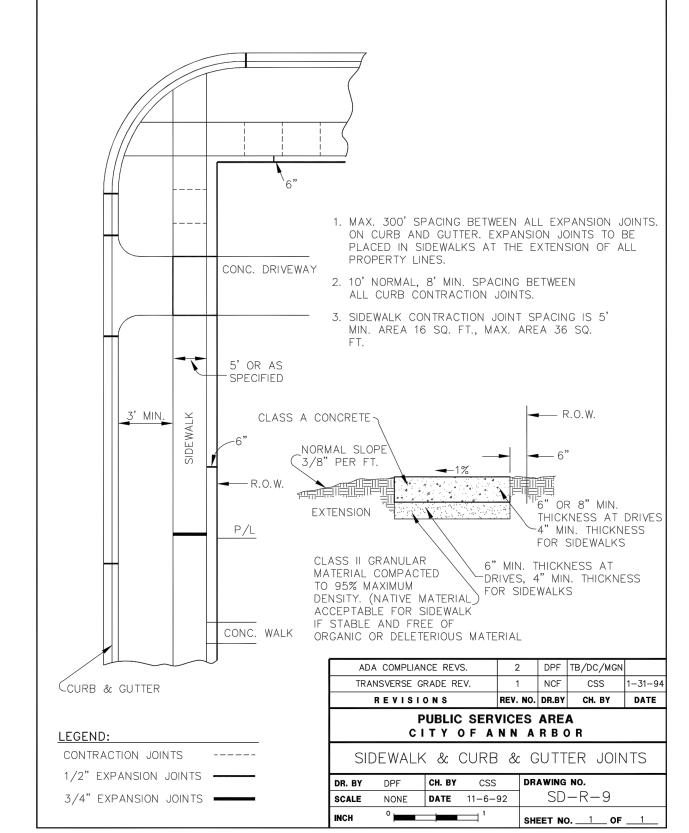
UTILITY TRENCH DETAIL (PAVED AREA)

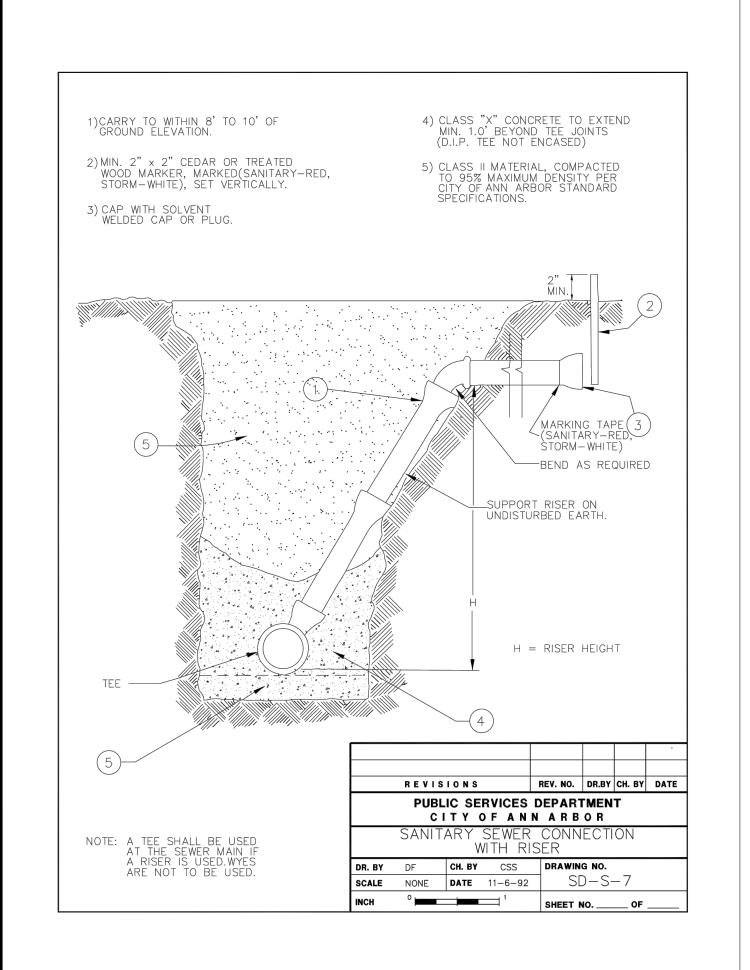
NOT TO SCALE

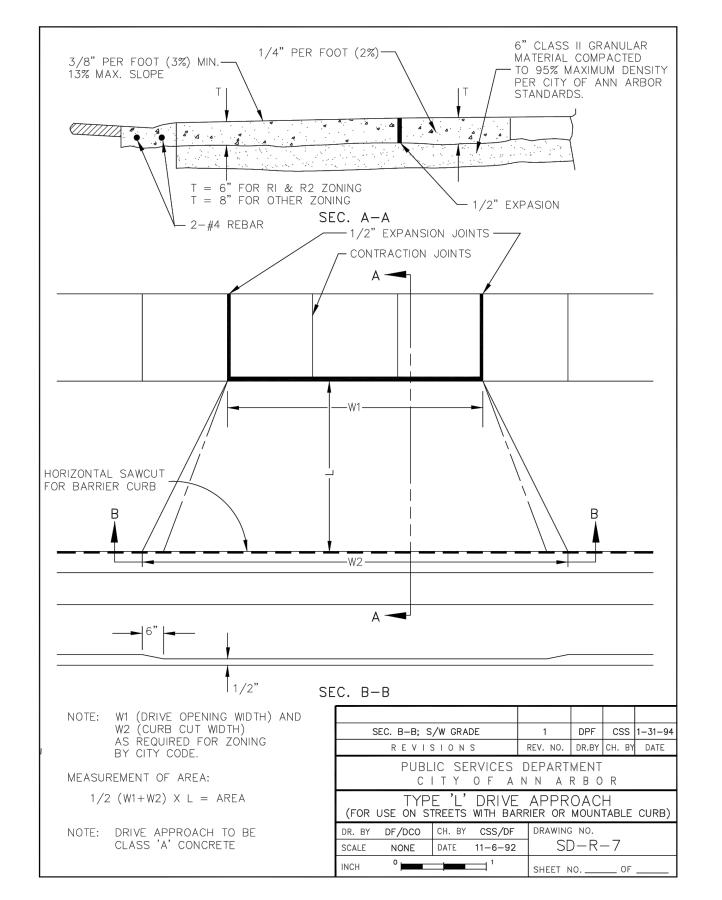
MINIMUM PIPE COVER SHALL BE AS FOLLOW: WATER - 48" MIN, • STORM DRAIN - SEE DRAINAGE PLAN

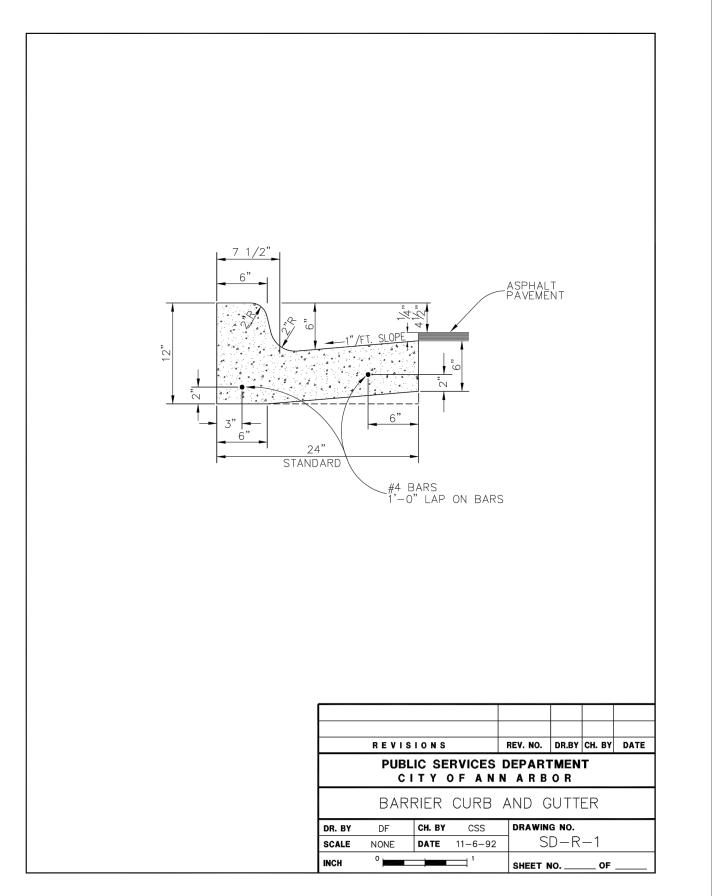
6"ø CONCRETE -BOLLARDS 4' HIGH (PAINTED YELLOW) LIMESTONE (OF CONCRETE) 8" CONCRETE BLOCK, WALL CAP (TY ST-IN PLACE CONCRETE WALLS OR APPROVED ALTERNATE MATERIAL 8" POURED -CONCRETE SLAB OVER 8" 21AA LIMESTONE POURED CONC 12" X 42" POURED -CONCRETE TRENCH ELEVATION FOUNDATION W/ #5 BARS TOP & BOTTOM. PROVIDE #5 DOWELS @ 24" O.C (TYP) 20.0' MIN. **≣**| 6YD TRASH/RECYCLE 6YD TRASH/RECYCLE RECEPTACLE - EXPANSION JOINT - 6"ø CONCRETE GATE SWING ANGLE, BOLLARDS MIN 120° FROM 4'HIGH CLOSED POSITION (PAINTED YELLOW) CONTRACTION JOINT 8" POURED CONCRETE SLAB EXTENSION DOUBLE BIN ENCLOSURE DETAIL **CITY OF ANN ARBOR** PUBLIC SERVICES DRAWN BY CHECKED B 301 EAST HURON STREET P.O. BOX 8647 SOLID WASTE STANDARD DETAILS 734-794-6410 DR. OHM CH. CJE DRAWING NO.
SCALE N.T.S. DATE 12/29/15 PAGE 2 www.a2gov.org

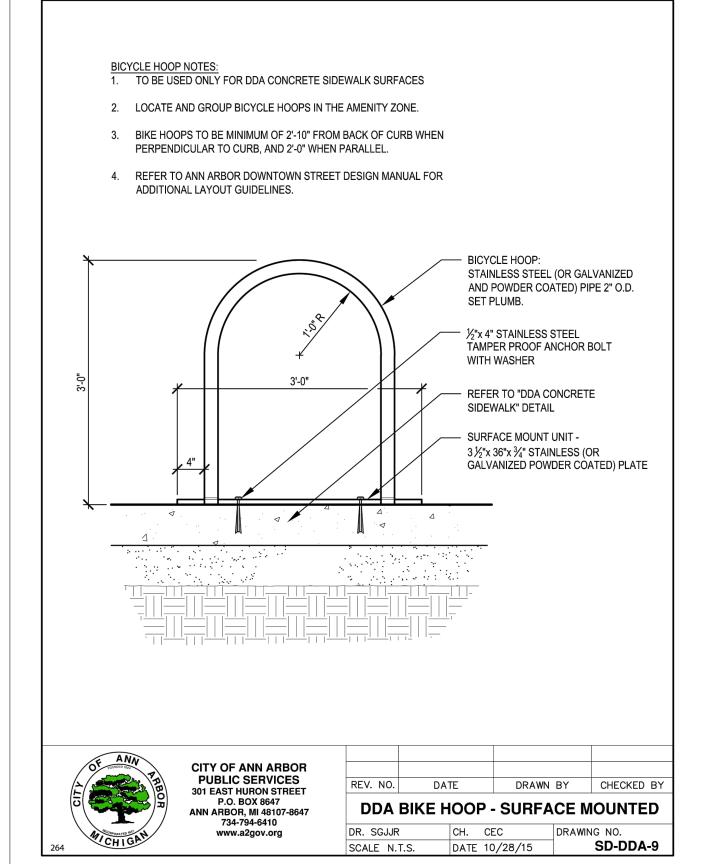


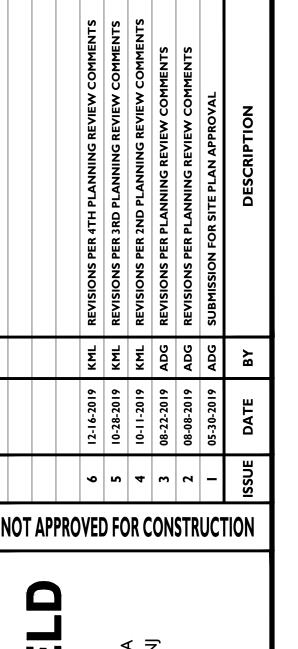


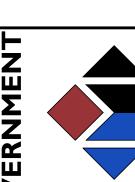












ER





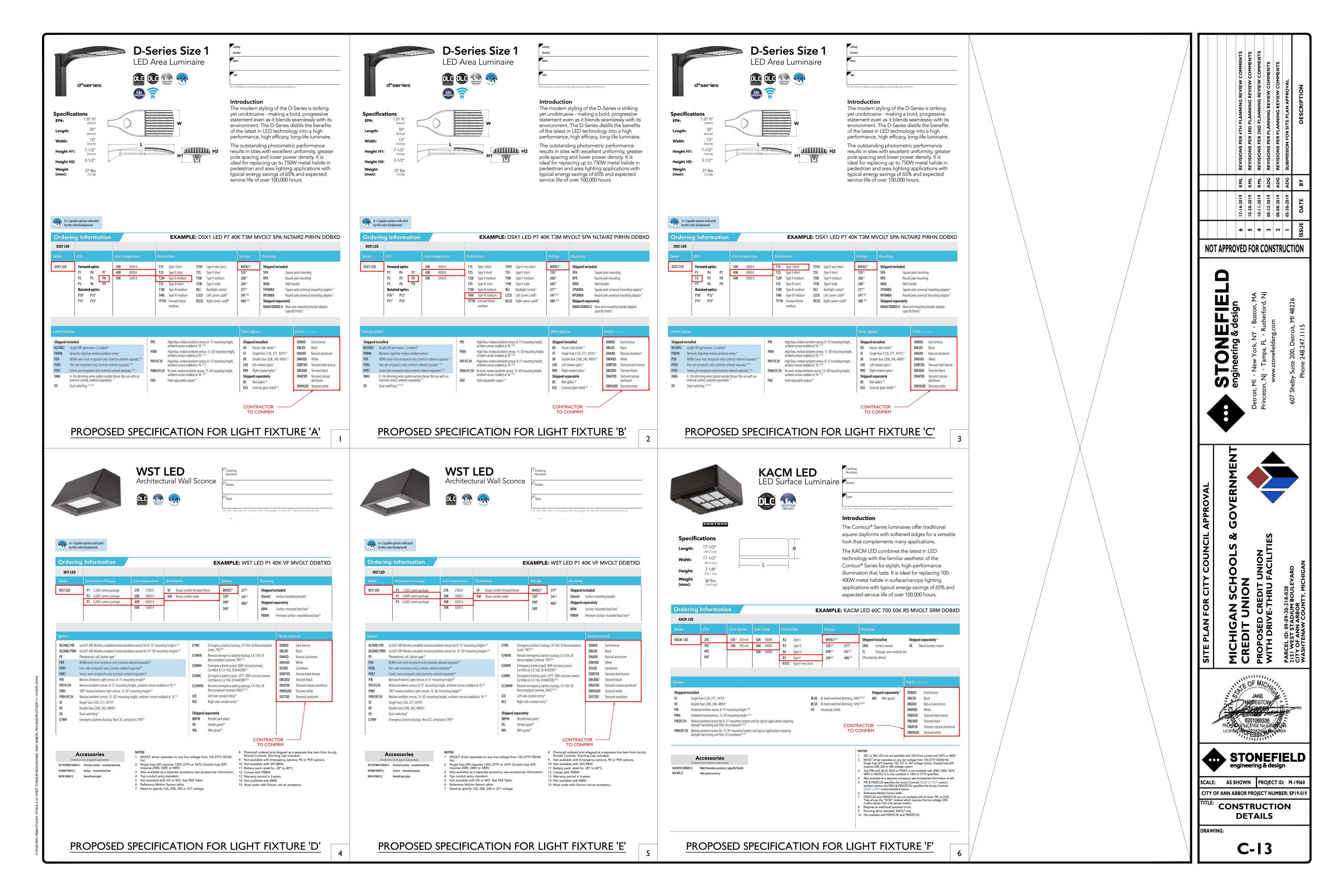
SCALE: AS SHOWN PROJECT ID: M-19060 **CITY OF ANN ARBOR PROJECT NUMBER: SP19-019**

CONSTRUCTION

DETAILS

DRAWING:

C-12



GENERAL TREE PLANTING NOTES:

- FOR CONTAINER GROWN TREES USE FINGERS OR SMALL HAND TOOLS TO PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL, THEN CUT OR PULL APART ANY ROOT CIRCLING THE PERIMETER OF THE CONTAINER.
- INCORPORATE COMMERCIALLY PREPARED MYCORRHIZAE SPORES AND FERTILIZER TABLETS IN THE SOIL IMMEDIATELY AROUND THE ROOT BALL AT RATE SPECIFIED BY THE MANUFACTURER.
- THOROUGHLY SOAK THE ROOT BALL AND THE ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO GROWING SEASONS. WHEN IRRIGATION IS NOT PROVIDED SPECIFICALLY FOR THE TREE, IT IS RECOMMENDED THAT GATOR BAGS ARE USED TO HELP FACILITATE THE PROPER AMOUNT AND RATE OF WATER ARE ACHIEVED. GATOR BAGS SHALL BE INSTALLED AT THE BEGINNING OF EACH GROWING SEASON AND REMOVED EACH FALL. THIS WILL ALLOW FOR THE AREA BENEATH THE GATOR BAG TO DRY OUT REDUCING THE GROWTH OF FUNGUS AND REMOVE POSSIBLE HIDING SPOTS FOR RODENTS. THE GATOR BAGS WILL BE REMOVED AT THE END OF THE SECOND GROWING SEASON UNLESS OTHERWISE ADVISED.
- . PRIOR TO DIGGING HOLE, REMOVE ALL EXCESS SOIL FROM ROOT FLARE TO DETERMINE DEPTH OF HOLE. REFER TO THE ROOT FLARE DETAIL.
- WHEN PLANTING IN WINTER OR ON WINDY SITES APPLY ANTI-DESSICANT AS PER MANUFACTURER'S SPECIFICATIONS.

PLANT MATERIAL SELECTION AND HANDLING NOTES:

PLANTS WITH UNDERSIZED OR BROKEN ROOT BALLS, EXCESSIVE CURLING AND/OR GIRDLING OF ROOTS, INJURY FROM ROUGH TREATMENT, OR DROUGHT STRESS WILL BE REJECTED.

- . IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO GUARANTEE THAT THE ROOT BALLS ARE PROPERLY SIZED. PLEASE BE AWARE THAT FOR PROPER SIZING, UNSUITABLE SOIL MATERIAL SHALL BE REMOVED PRIOR TO DIGGING. REFER TO THE TREE ROOT FLARE DETAIL.
- . ROOT BALLS SHALL BE KEPT MOIST AT ALL TIMES.
- F. PLANTS SHALL BE COVERED DURING TRANSPORT TO PREVENT EXCESSIVE DRYING FROM WIND. IN WARM WEATHER PLANTS SHALL BE COVERED JUST PRIOR TO TRAVEL AND UNCOVERED IMMEDIATELY UPON REACHING DESTINATION TO AVOID HEAT BUILD UP UNDER THE TARP. PLANT MATERIAL SHALL NOT BE LEFT IN DIRECT SUNLIGHT OR ON HIGH HEAT ABSORPTION MATERIALS, SUCH AS BUT NOT LIMITED TO, ASPHALT AND/ OR METAL TRUCK BEDS TO PREVENT THE WILTING OF MATERIAL.
- TREES SHALL BE MOVED BY THEIR ROOT BALL NOT THEIR TRUNK. TREES LARGER THAN 6" SHALL BE MOVED WITH PROPER STRAPPING SECURING ROOT BALL TO EQUIPMENT. WEAVE STRAPPING THROUGH THE LACING, NOT AROUND THE TRUNK. TREE TRUNK SHALL BE PROTECTED AT ALL TIME FROM COMPRESSION AND SEARING.

. IF PLANTS ARE NOT PLANTED IMMEDIATELY ON SITE, PROPER CARE SHALL BE TAKEN:

- a. PLACE IN PARTIAL SHADE WHEN POSSIBLE.
- b. COVER ROOT BALL WITH MOISTENED MULCH OR AGED WOODCHIPS
- c. SUPPLY PROPER IRRIGATION AS NOT TO ALLOW THE ROOT BALL TO DRY OUT. d. UNTIE PLANT MATERIAL AND ALLOW PROPER SPACING OF PLANTS FOR AIR CIRCULATION TO PREVENT DISEASE, WILTING, LEAF LOSS AND GENERAL HEATH OF PLANTS.

BARE ROOT TREE PLANTING NOTES:

SUBMERGE ROOTS IN ROOT DIP GEL- BARE ROOT PLANTING AID WITH MYCORRHIZEA OR APPROVED EQUAL.

BIOSTIMULANT AND THE WATER HOLDING GEL WILL STILL BE BENEFICIAL.

MIXING DIRECTIONS:

- a. EMPTY THE CONTENTS OF THIS PACKAGE IN FOUR GALLONS OF WATER. b. LET MIX STAND FOR TEN MINUTES, STIRRING OCCASIONALLY. THE PRODUCT WILL FORM A SLURRY OR THICK
- MIXTURE. SO THE ACTIVE INGREDIENTS WILL ADHERE TO THE ROOTS. c. DIP EACH PLANT FOR ABOUT 5 SECONDS. PLANT IMMEDIATELY. THERE IS NO HARM IN LEAVING THE PLANT IN THE MIX, FOUR GALLONS OF MIX WILL TREAT 100-500 PLANTS. THE NUMBER OF PLANTS DEPENDS ON ROOT MASS AND HOW MUCH OF THE MIXTURE THE ROOTS OF YOUR PLANTS ABSORB. THE ENDO AND ECTOMYCORRHIZA WILL BE USEFUL ON ALMOST ALL PLANTS. THE MAJOR EXCEPTIONS ARE RHODODENDRONS AND AZALEAS BUT THE ROOTS2®

2. CUT OFF ALL BROKEN ROOTS.

3. MAKE FRESH CUTS AT ENDS OF ROOTS.

- 4. DIG PLANT HOLES AT LEAST 3 X THE WIDTH AND DEPTH OF THE ROOT MASS.
- 5. PLANT ROOT FLARE AT GRADE OR GRAFT JUST ABOVE GRADE.
- 6. BACK FILL ALL HOLES WITH PLANTING MIX APPROVED BY THE ENGINEER.

PLANT MATERIAL GUARANTEE NOTES:

- LANDSCAPE CONTRACTOR SHALL SUPPLY A TWO YEAR PLANT MATERIAL GUARANTEE.
- 2. CONTRACTOR SHALL NOT BE RESPONSIBLE FOR THE PLANTINGS IF OWNER FAILS TO PROVIDE PROPER CARE AND WATERING AS INSTRUCTED BY THE LANDSCAPE CONTRACTOR DURING GUARANTEE PERIOD.
- . CONTRACTOR SHALL INSTRUCT OWNER AS TO PROPER CARE OF MATERIAL

. THE LANDSCAPE PLAN DRAWING SET SHALL BE CONSIDERED AN INTEGRAL PART OF THE SITE PLAN APPROVAL AND SHALL BE MAINTAINED IN PERPETUITY.

SOIL PREPARATION NOTES:

THE QUALITY OF SOIL AVAILABLE FOR PLANTING VARIES WIDELY FROM SITE TO SITE, ESPECIALLY AFTER CONSTRUCTION ACTIVITY HAS OCCURRED. THE NATURE OF CONSTRUCTION RESULTS IN COMPACTION, FILLING, CONTAMINATION, AND GRADING OF THE ORIGINAL SOIL ON A SITE, RAPIDLY MAKING IT USELESS FOR PLANTING. PREVIOUS HUMAN ACTIVITY AT A SITE CAN ALSO AFFECT THE ABILITY OF THE SOIL TO SUPPORT PLANTS.

WHENEVER POSSIBLE THE SOIL IMPROVEMENT AREA SHOULD BE CONNECTED FROM TREE TO TREE.

ALWAYS TEST SOIL FOR PH, NUTRIENT LEVELS, AND TEXTURAL CLASS AND ADJUST THESE AS REQUIRED. SUBMIT TEST RESULTS TO THE ENGINEER PRIOR TO PLANTING ALONG WITH SOIL IMPROVEMENT SUGGESTIONS. SOIL TESTS CAN BE ACQUIRED FROM YOUR LOCAL COUNTY AGRICULTURAL EXTENSION OR AT RUTGERS COOPERATIVE EXTENSION 732-932-9295.

. LOOSEN SOIL WITH A BACK HOE OR OTHER LARGE COARSE-TILING EQUIPMENT WHEN POSSIBLE, THIS SHOULD NOT BE PERFORMED WHEN SOIL IS FROZEN OR EXCESSIVELY WET. TILING THAT PRODUCES LARGE, COARSE CHUNKS OF SOIL IS PREFERABLE TO TILING THAT RESULTS IN FINE GRAINS UNIFORM IN TEXTURE. AFTER AREA IS LOOSEN IT SHALL NOT BE DRIVEN BY ANY VEHICLE.

ANY OVER BY APPLY PRE-EMERGENT WEED CONTROL TO ALL PLANT BEDS PRIOR TO MULCHING. ENSURE COMPATIBILITY BETWEEN PRODUCT AND PLANT MATERIAL.

PLANT BED/TREE PIT DRAINAGE: LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER SURFACE AND SUBSURFACE PLANT BED DRAINAGE PRIOR TO INSTALLATION OF PLANTS. IF POOR DRAINAGE CONDITIONS EXIST, CORRECTIVE ACTION SHALL BE TAKEN PRIOR TO PLANTING.

ALL PLANTING SOIL SHALL BE AMENDED WITH THE FOLLOWING:

a. MYCRO® TREE SAVER - IS A DRY GRANULAR MYCORRHIZAL FUNGI INOCULANT THAT IS MIXED IN THE BACKFILL WHEN PLANTING TREES AND SHRUBS. IT CONTAINS SPORES OF BOTH ECTOMYCORRHIZAL AND VA MYCORRHIZAL FUNGI (VAM), BENEFICIAL RHIZOSPHERE BACTERIA, TERRA-SORB SUPERABSORBENT HYDROGEL TO REDUCE WATER LEACHING, AND SELECTED ORGANIC MICROBIAL NUTRIENTS.

DIRECTIONS FOR USE: USE 3-OZ PER EACH FOOT DIAMETER OF THE ROOT BALL, OR 3-OZ PER INCH CALIPER. MIX INTO THE BACKFILL WHEN RANSPLANTING TREES AND SHRUBS. MIX PRODUCT IN A RING-SHAPED VOLUME OF SOIL AROUND THE UPPER PORTION OF THE ROOT BALL, EXTENDING FROM THE SOIL SURFACE TO A DEPTH OF ABOUT 8-INCHES (20-CM), AND EXTENDING OUT FROM THE ROOT BALL ABOUT 8-INCHES (20-CM) INTO THE BACKFILL. APPLY WATER

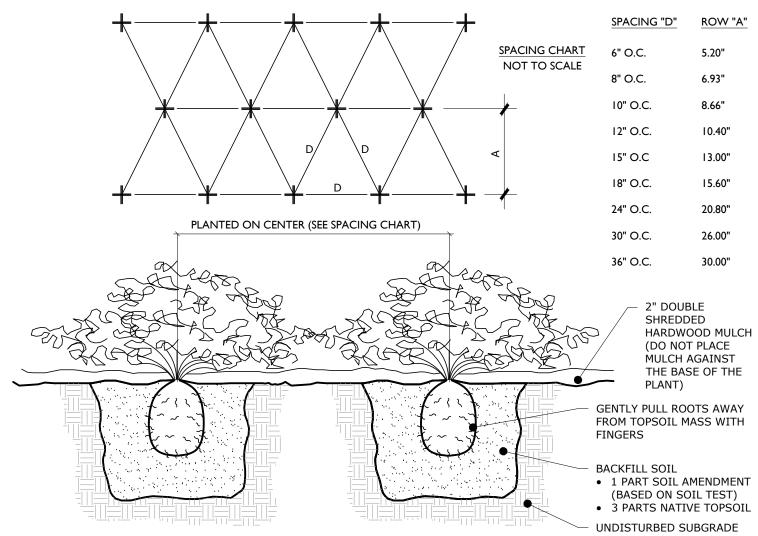
TO SOIL SATURATION. COMPATIBILITY: SPECIES: MYCOR® TREE SAVER® IS EFFECTIVE FOR ALL TREE AND SHRUB SPECIES EXCEPT RHODODENDRONS, AZALEAS, AND MOUNTAIN LAUREL, WHICH REQUIRE ERICOID MYCORRHIZAE. USE OF TREE SAVER® WITH THESE SPECIES WILL NOT HARM THEM. SOIL PH: THE FUNGI IN THIS PRODUCT WERE CHOSEN BASED ON THEIR ABILITY TO SURVIVE AND COLONIZE PLANT ROOTS IN A PH RANGE OF 3 TO 9. FUNGICIDES: THE USE OF CERTAIN FUNGICIDES CAN HAVE A DETRIMENTAL EFFECT ON YOUR INOCULATION PROGRAM.

SOIL APPLICATION OF ANY FUNGICIDE IS NOT RECOMMENDED FOR TWO WEEKS AFTER APPLICATION. OTHER PESTICIDES: HERBICIDES AND INSECTICIDES DO NOT NORMALLY INTERFERE WITH MYCORRHIZAL FUNGAL DEVELOPMENT, BUT MAY INHIBIT THE GROWTH OF SOME TREE AND SHRUB SPECIES IF NOT USED PROPERLY.

FERTILIZER TABLETS ARE PLACED IN THE UPPER 4 INCHES OF BACKFILL SOIL WHEN PLANTING TREES AND SHRUBS. TABLETS ARE FORMULATED FOR LONG-TERM RELEASE BY SLOW BIODEGRADATION, AND LAST UP TO 2 YEARS AFTER PLANTING. TABLETS CONTAIN 12-8-8 NPK FERTILIZER, AS WELL AS A MINIMUM OF SEVEN PERCENT (7%) HUMIC ACID BY WEIGHT, MICROBIAL NUTRIENTS DERIVED FROM SEA KELP, PROTEIN BYPRODUCTS, AND YUCCA SCHIDIGERA, AND A COMPLEMENT OF BENEFICIAL RHIZOSPHERE BACTERIA. THE STANDARD 21 GRAM TABLET IS SPECIFIED HERE. DIRECTIONS FOR USE: FOR PLANTING BALLED & BURLAPPED (B&B) TREES AND SHRUBS, MEASURE THE THICKNESS OF THE TRUNK, AND USE ABOUT I TABLET (21-G) PER HALF-INCH. PLACE THE TABLETS DIRECTLY NEXT TO THE ROOT BALL, EVENLY DISTRIBUTED AROUND ITS PERIMETER, AT A DEPTH OF ABOUT 4 INCHES. PROOF OF COMPLIANCE WITH SPECIFICATIONS: THE CONTRACTOR WILL DEMONSTRATE COMPLIANCE BY SHOWING

INVOICES TO PROVE PURCHASE OF PRODUCT IN SUFFICIENT QUANTITY TO COVER THE PROJECT AT THE RATES RECOMMENDED BY THE MANUFACTURER. INCLUDE PROJECT NAME, DATE OF PURCHASE OF PRODUCT, AND NAME OF

- THOROUGHLY SOAK THE GROUND COVER ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.
- MODIFY HEAVY CLAY OR SILT SOILDS (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) OR • MODIFY EXTREMELY SANDY SOILDS (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX
- . ALL GROUND COVER AREAS SHALL BE TREATED WITH A PRE-EMERGENT PER MANUFACTURER'S SPECIFICATIONS



GROUND COVER/PERENNIAL/ANNUAL PLANTING DETAIL

- DO NOT PRUNE TERMINAL LEADER OR BRANCH TIPS.

- PRUNE AWAY DEAD OR BROKEN BRANCHES ONLY. - REMOVE ALL LABELS, TAGS, TREE WRAP, TAPE OR

STRING FROM TREE TRUNK AND CROWN.

SOIL AROUND TRUNK OF TREE.

AND FIRMLY SET TREE.

HOLE WIDTH = 2-3x WIDTH OF ROOTBALL

DO NOT STAKE UNLESS IN HEAVY CLAY SOIL, WINDY

LARGE CROWN, IF STAKING IS NEEDED DUE TO THESE

APPROVED EQUAL, DRIVEN 6"-8" OUTSIDE OF

STAKE WITH 2 x 2 HARDWOOD STAKES, OR

LOOSELY STAKE TREE TRUNK TO ALLOW FOR

STAKE TREES JUST BELOW FIRST BRANCH WITH

2"-3" WIDE BELT-LIKE, NYLON OR PLASTIC

REMOVE ALL STAKING MATERIALS AFTER 1 YEAR.

TREE, CONNECT FROM TREE TO STAKE HORIZONTALLY, DO NOT USE ROPE OR WIRE

STRAPS (2 PER TREE ON OPPOSITE SIDES OF

CONDITIONS:

ROOTBALL.

TRUNK FLEXING.

THROUGH A HOSE.)

CONDITIONS, 3" OR GREATER DIAMETER TREE TRUNK OR

- FOLD DOWN OR PULL BACK STRING, BURLAP,

PLASTIC OR SOIL TO EXPOSE THE TRUNK FLARE.

SET ROOTBALL SO THAT TRUNK FLARE IS LEVEL TO

GRADE, OR VERY SLIGHTLY HIGHER IN CLAY SOIL.

-MULCH 2"-3.5" DEEP LEAVING 3" CIRCLE OF BARE

- IF POSSIBLE, WITHOUT DISTURBING DEVELOPED ROOTS, FOLD DOWN OR CUT AWAY BURLAP TO EXPOSE ROOTBALL. REMOVE ALL NON-DEGRADABLE

MATERIALS, CUTTING AWAY WIRE BASKET TO 10"

-BREAK UP (SCARIFY) SIDES OF PLANTING HOLE.

CENTER ROOTBALL IN PLANTING HOLE. LEAVE

SOIL OR BUILDING RUBBLE. USE SHOVELS AND

PUBLIC SERVICES DEPARTMENT

CITY OF ANN ARBOR

TREE PLANTING DETAIL

DR. BY ARG CH. BY CSS DRAWING NO.

SCALE NONE DATE 7-23-10

BOTTOM OF PLANTING HOLE FIRM. DO NOT AMEND SOIL UNLESS PLANTING IN SEVERELY DISTURBED

WATER TO SETTLE SOIL AND REMOVE AIR POCKETS

REV. NO. DR.BY CH. BY DATE

SD-L-3

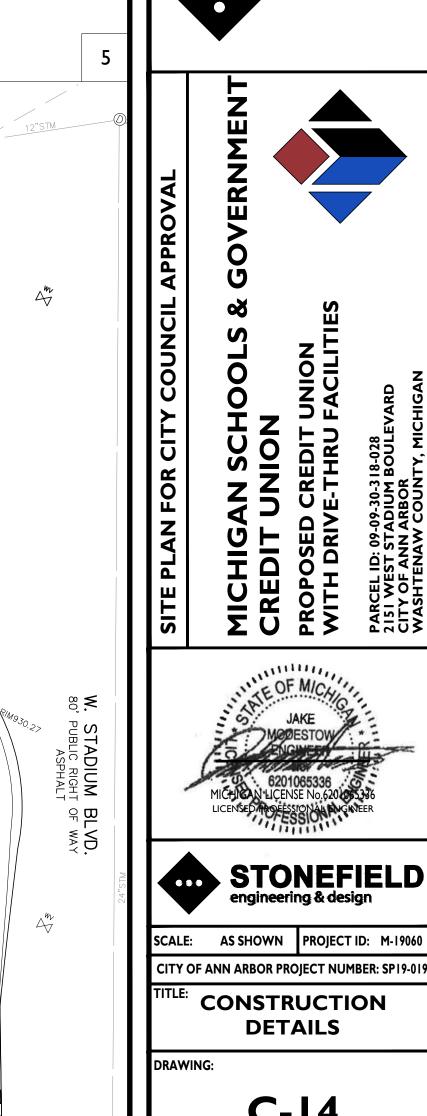
GENERAL SOIL PREPARATION REQUIREMENTS TABLE MIN. WIDTH OF SOIL CONDITION TYPE OF PREPARATION PREPARED SOIL (X) 6 FT. OR TWICE THE LOOSEN THE EXISTING SOILS TO THE WIDTHS AND DEPTHS GOOD SOIL (NOT PREVIOUSLY WIDTH OF THE ROOT | SHOWN ON PLANTING DETAILS. GRADED OR COMPACTED, BALL, WHICHEVER IS TOPSOIL LAYER INTACT) COMPACTED SOIL (NOT PREVIOUSLY LOOSEN THE EXISTING SOILS TO THE WIDTHS AND DEPTHS GRADED, TOPSOIL LAYER DISTURBED | 15 FT. SHOWN ON PLANTING DETAILS; ADD COMPOSTED ORGANIC BUT NOT ELIMINATED) MATTER TO BRING THE CONTENT UP TO 5% DRY WEIGHT. MINIMUM TREATMENT: LOOSEN EXISTING SOILS TO WIDTHS AND DEPTHS SHOWN, ADD COMPOSTED ORGANIC MATTER TO BRING ORGANIC CONTENT UP TO 5 % DRY WEIGHT. OPTIMUM GRADED SUBSOILS AND CLEAN TREATMENT: REMOVE TOP 8 TO 10 IN. OR THE EXISTING MATERIAL. FILLS WITH CLAY CONTENT LOOSEN EXISTING SOILS TO THE WIDTHS AND DEPTHS SHOWN IN BETWEEN 5 AND 35 % THE PLANTING DETAILS, ADD 8 -10 IN. OF LOAM TOPSOIL. POOR QUALITY FILLS, HEAVY CLAY REMOVE EXISTING SOILS TO THE WIDTHS AND DEPTHS SHOWN, SOILS, SOILS CONTAMINATED WITH REPLACE WITH LOAM AND TOPSOIL. RUBBLE OR TOXIC MATERIAL

I. FOR THE CONTAINER-GROWN SHRUBS, USE FINGERS OR SMALL HAND TOOL TO PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL; THEN CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OF THE CONTAINER. 2. THOROUGHLY SOAK THE SHRUB ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS. • MODIFY HEAVY CLAY OR SILT SOILS (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) OR GYPSUM • MODIFY EXTREMELY SANDY SOILS (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL TOP OF SHRUB ROOT BALL SHALL BE SET FLUSH WITH FINISHED GRADE ROPES AT THE TOP OF BALL SHALL BE CUT AND REMOVED. FOLD BACK 3" DOUBLE SHREDDED HARDWOOD TOP 1/3 OF BURLAP. ALL MULCH (DO NOT PLACE MULCH AGAINST NON-BIODEGRADABLE MATERIAL THE BASE OF THE PLANT) SHALL BE REMOVED. CONTAINER-GROWN PLANT WITH PLANTING HOLE SHALL BE 12" TO ROOTS PULLED OUT OF BALL 18" DEEP. FOR LARGER SHRUB ROOT BALLS, MAKE DEPTH MIN. 4" DEEPER THAN BALL. BACKFILL SOIL 1 PART SOIL AMENDMENT (BASED ON SOIL TEST) 3 PARTS NATIVE TOPSOIL BALLED AND BURLAPPED PLANT UNDISTURBED SUBGRADE SOIL SURFACE ROUGHENED TO

REFERENCES ARCHITECTURAL GRAPHIC STANDARDS COPYRIGHT 2000



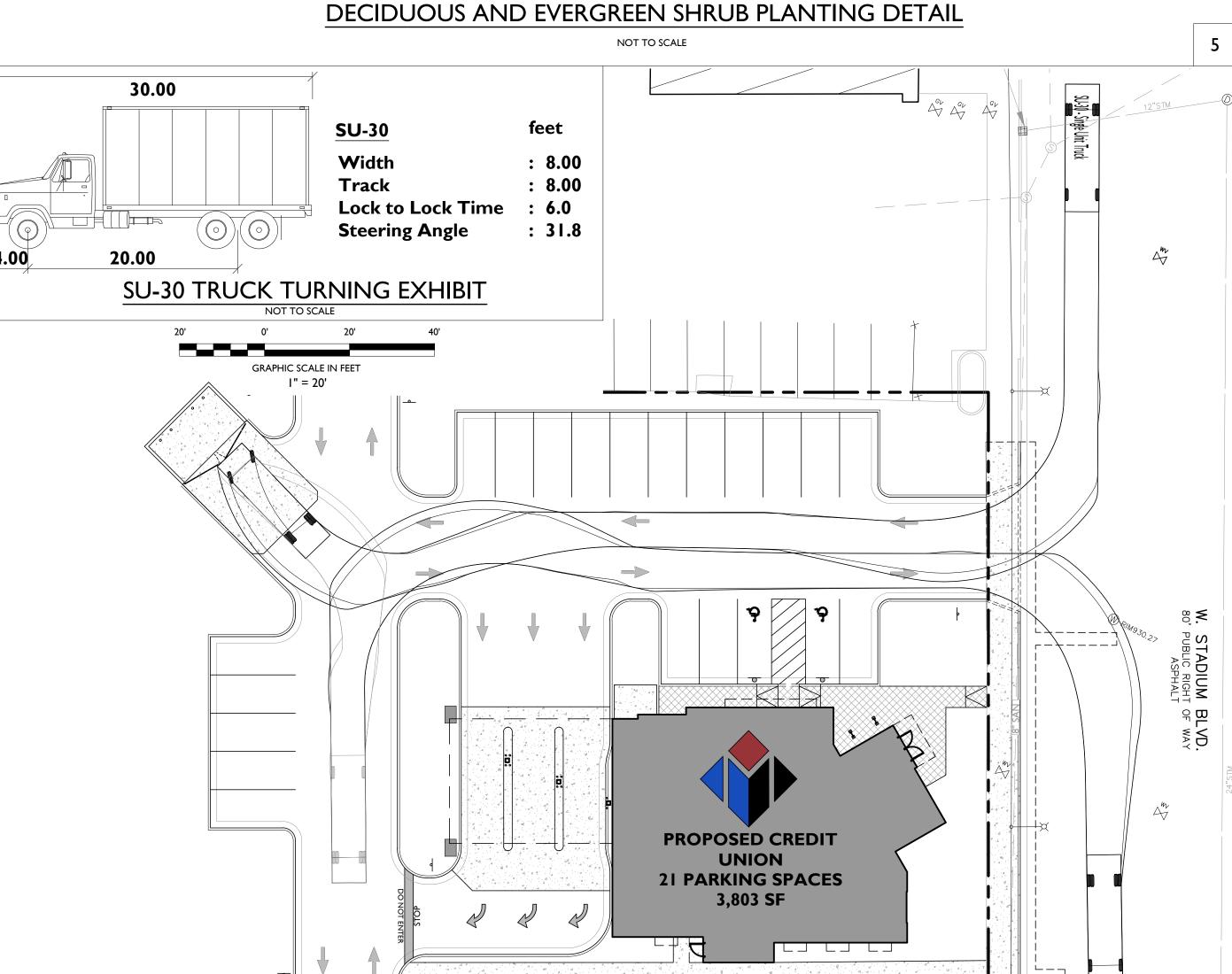
BIND WITH BACKFILL SOIL.

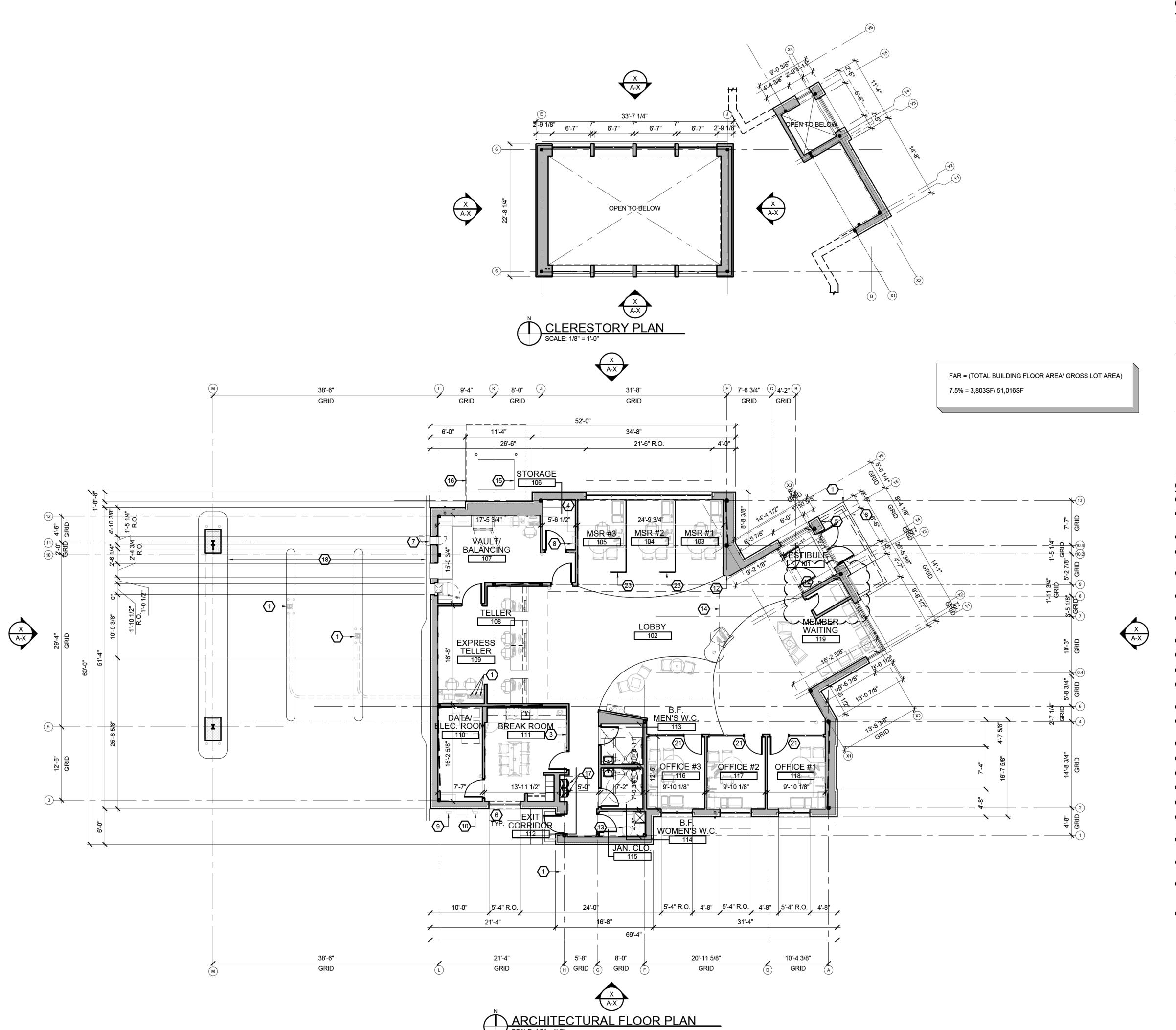


engineering & design

DETAILS

NOT APPROVED FOR CONSTRUCTION





GENERAL FLOOR PLAN NOTES:

- 1. THIS DRAWING IS DIAGRAMMATIC AND SHOULD BE USED TO DETERMINE THE DESIGN INTENT. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE SET OF WORK AS INDICATED AND SHALL FIELD VERIFY ALL WORK, COORDINATE ALL DRAWINGS / NEW WORK AND SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES IN THE DOCUMENTS BEFORE PROCEEDING. FAILURE TO DO SO WILL RESULT IN THE CONTRACTOR TAKING FULL RESPONSIBILITY AND LIABILITY FOR SAID DISCREPANCIES.
- 2. ALL DIMENSIONS ARE SHOWN FROM FINISH FACE TO FINISH FACE OF PARTITION UNLESS OTHERWISE NOTED.
- 3. WALL THICKNESS' ARE NOMINAL NOT ACTUAL DIMENSIONS. SEE WALL SCHEDULE FOR ACTUAL DIMENSIONS.
- 4. ALL WOOD, INCLUDING BLOCKING, USED ON THE PROJECT SHALL BE FIRE RETARDANT TREATED.
- 5. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL LOCAL, STATE, COUNTY CODE REGULATIONS, O.S.H.A., AND THE AMERICAN WITH DISABILITIES ACT (ADA). REFER TO THE CODE PLAN FOR MORE INFORMATION.
- PROVIDE POSITIVE SLOPE TO ALL FLOOR DRAINS WHILE KEEPING FLOOR LEVEL AT WALL BASE CONDITION.
- 7. PROVIDE TRANSITION STRIPS AT EACH CHANGE IN FLOOR FINISH MATERIALS.
- 8. REINFORCE WALL AND PROVIDE BLOCKING AS REQUIRED TO SUPPORT WALL CABINETS AND COUNTERTOPS.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL WALL REINFORCING FOR INSTALLATION OF ACCESSORIES, COAT RACKS, CHART RACKS, CASEWORK, AND OTHER WALL MOUNTED ITEMS.
- 10. ALL EXPOSED PIPES, DUCTS, AND CONDUIT TO BE PAINTED TO MATCH EXISTING.
- 11. PROVIDE CONTROL JOINTS IN GYPSUM BOARD PARTITIONS AT 30'-0" O.C. MAXIMUM AND AS INDICATED IN THE CONTRACT DOCUMENTS.
- 12. COORDINATE WITH OWNER'S EQUIPMENT SUPPLIER FOR INSTALLATION REQUIREMENTS / LOCATIONS OF FLOOR / WALL / CEILING MOUNTED ITEMS; IE. CAMERAS, TV'S, SPEAKERS, SENSORS, SECURITY WIRING, VAULTS, ATM'S.
- 13. CONTRACTOR SHALL CONDUCT A ROUGH ELECTRICAL INSPECTION WITH OWNER, PRIOR TO ENCLOSING WALLS, FOR THE PURPOSE OF CONFIRMING ALL J-BOX LOCATIONS FOR POWER, DATA, VOICE, SWITCH, THERMOSTAT, ETC.
- 14. CONTRACTOR TO FILL ANY AND ALL EQUIPMENT PENETRATIONS OR DEPRESSIONS INTO OR THROUGH THE EXISTING SLAB THAT WILL NOT BE UTILIZED TO FEED NEW EQUIPMENT (I.E. ABANDONED FLOOR CORES, IMPRESSION FROM PREVIOUS EQUIPMENT FLOOR PLATE REMOVAL). PENETRATIONS SHALL BE FILLED WITH NON-SHRINK GROUT. THE SIDES OF ANY EXISTING OPENINGS SHALL BE MODIFIED/TAPERED SO THAT THEY ARE WIDER AT THE TOP THAN AT THE BOTTOM. FOR LARGE OPENINGS, PROVIDE ONE (1) #5 BAR 2" UP FROM BOTTOM OF HOLE.
- 15. A TACTILE SIGN STATING 'EXIT' AND COMPLYING WITH ICC-A117.1 SHALL BE PROVIDED ADJACENT TO EACH DOOR TO AN 'AREA OF REFUGE', AN EXTERIOR AREA FOR ASSISTED RESCUE, AN EXIT STAIRWAY, AN EXIT RAMP, AN EXIT PASSAGEWAY, AND THE EXIT DISCHARGE.

FLOOR PLAN KEY NOTES:

(TYPICAL THIS SHEET ONLY)

- 1) 6'-8" WIDE SUPPORTED CONC. STOOP
- 2 VACUUM AIR TUBE SYSTEM; COOR UNIT LOCATIONS WITH LAYOUT OF ROOF
- 3 TACK BOARDS
- PROVIDE FIVE (5) 1-1/2" THICK SHELVES; 18" DEEP W/ WHITE P.LAM FINISH, VERT. K.V. STANDARDS & BRACKETS FL TO CEILING @ 16" O.C. HORIZ.
- 5 SECURITY KEY BOX VERIFY WITH FIRE MARSHAL EXACT PRODUCT REQUIRED
- (MANUF KNOX BOX).
- SUNSHADE CANOPY ABOVE WINDOWS ONLY. SEE ROOF PLAN FOR ADDITIONAL INFORMATION.
- ATM DRIVE-UP KIOSK WITH VALANCE AND POINT-TO POINT VAT SYSTEM BY OWNER'S BANK EQUIPMENT VENDOR; CONTRACTOR TO COORDINATE INSTALLATION.
- 8 STEEL ROOF LADDER.
- 9 ELECTRICAL METER AND CT CABINET; PAINT TO MATCH MASONRY COLOR.
- GAS METER; GAS PIPING TO BE RUN IN WALL CAVITY.
- ELECTRICAL / DATA OUTLETS TO BE CENTERED BETWEEN WINDOWS; COOR W/
- 412 AUTOMATIC DOOR OPERATOR BARRIER FREE PUSH-BUTTON
- WATER HEATER ON OVERHEAD PLATFORM. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- OUTLINE OF CLERESTORY / SOFFIT ABOVE.
- TRANSFORMER ON CONCRETE PAD; COORDINATE WITH ELECTRICAL TRADES.
- TRANSFORMER CLEARANCE; COORDINATE WITH ELECTRICAL TRADES.
- (17) BARRIER FREE COMPLIANT HI / LOW DRINKING FOUNTAIN.
- (18) REFER TO SITE DRAWINGS FOR ADDITIONAL DRIVE-THRU PAVING REQUIREMENTS.
- PROVIDE 3/4" PLYWOOD BACKER FOR WALL MOUNTED BINDER BINS. COORDINATE EXACT LOCATIONS WITH FURNITURE LAYOUT.
- ALL ELECTRICAL/LOW VOLTAGE INSTALLED SERVICE OUTLETS TO BE RUN UNDERGROUND/UNDERFLOOR (SEE ELECTRICAL ENGINEERING DRAWINGS).
- 21) ½" THICK GLASS IN ANODIZED ALUMINUM FRAMES FOR OFFICE WALLS AS ILLUSTRATED.
- PROVIDE CUSTOM PL-1 LAMINATE PASS-THRU TRIM (BOTH SIDES AND SOFFIT ABOVE)
 AT OPENING AS ILLUSTRATED. OVERLAP TRIM 2" ON ALL SIDES TO MATCH DOOR
 FRAME SIMILAR WIDTH. REFER TO MILLWORK DETAILS FOR FURTHER INFORMATION.
- PRE-MANUFACTURE DECORATIVE FURNITURE WALL PARTITION SYSTEM. WALL TO HAVE 42" HIGH FABRIC WALL COVERING WITH 15" HIGH GLASS PARTITION BEARING ON WALL. COORDINATE WITH FURNITURE MANUFACTURE.

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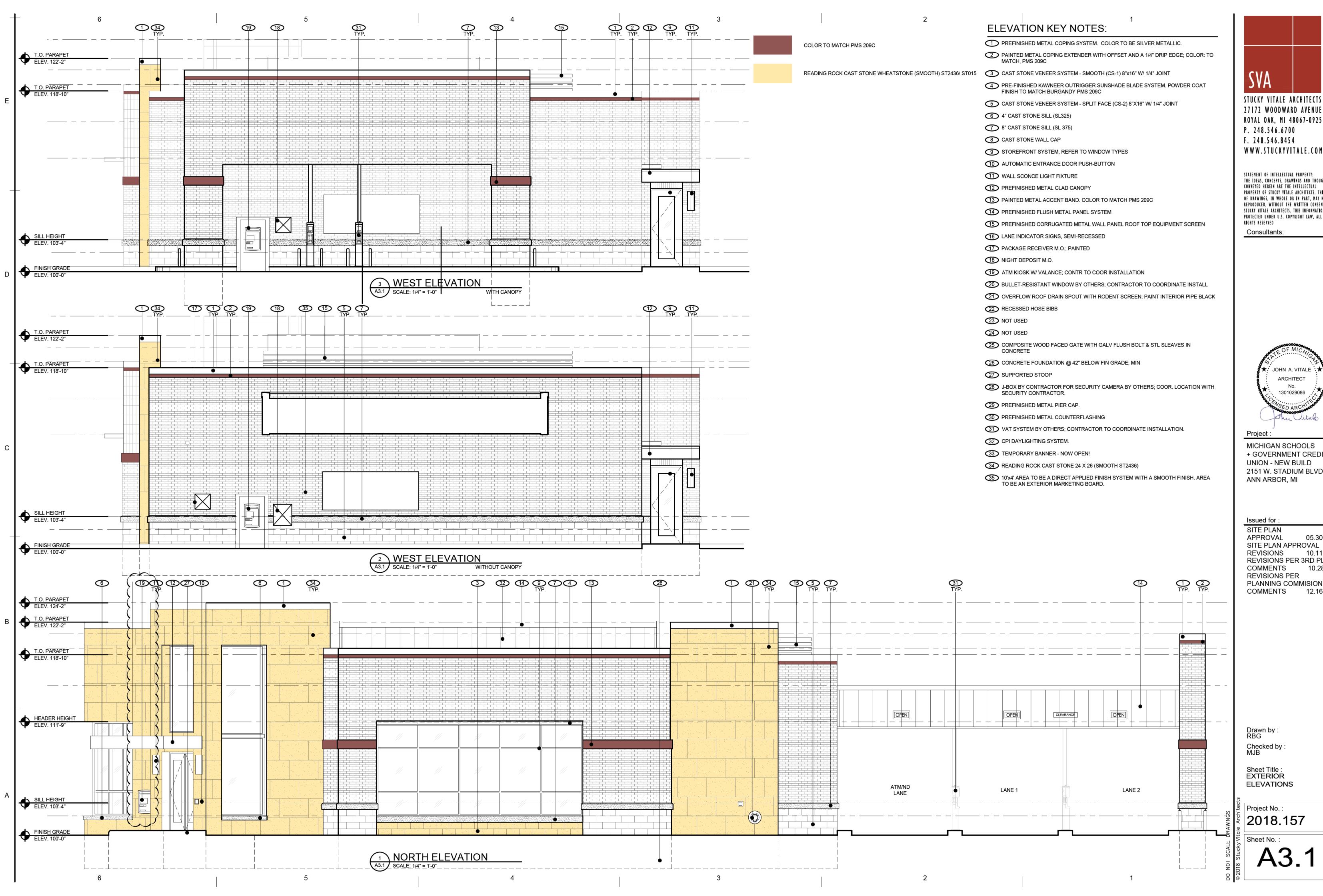
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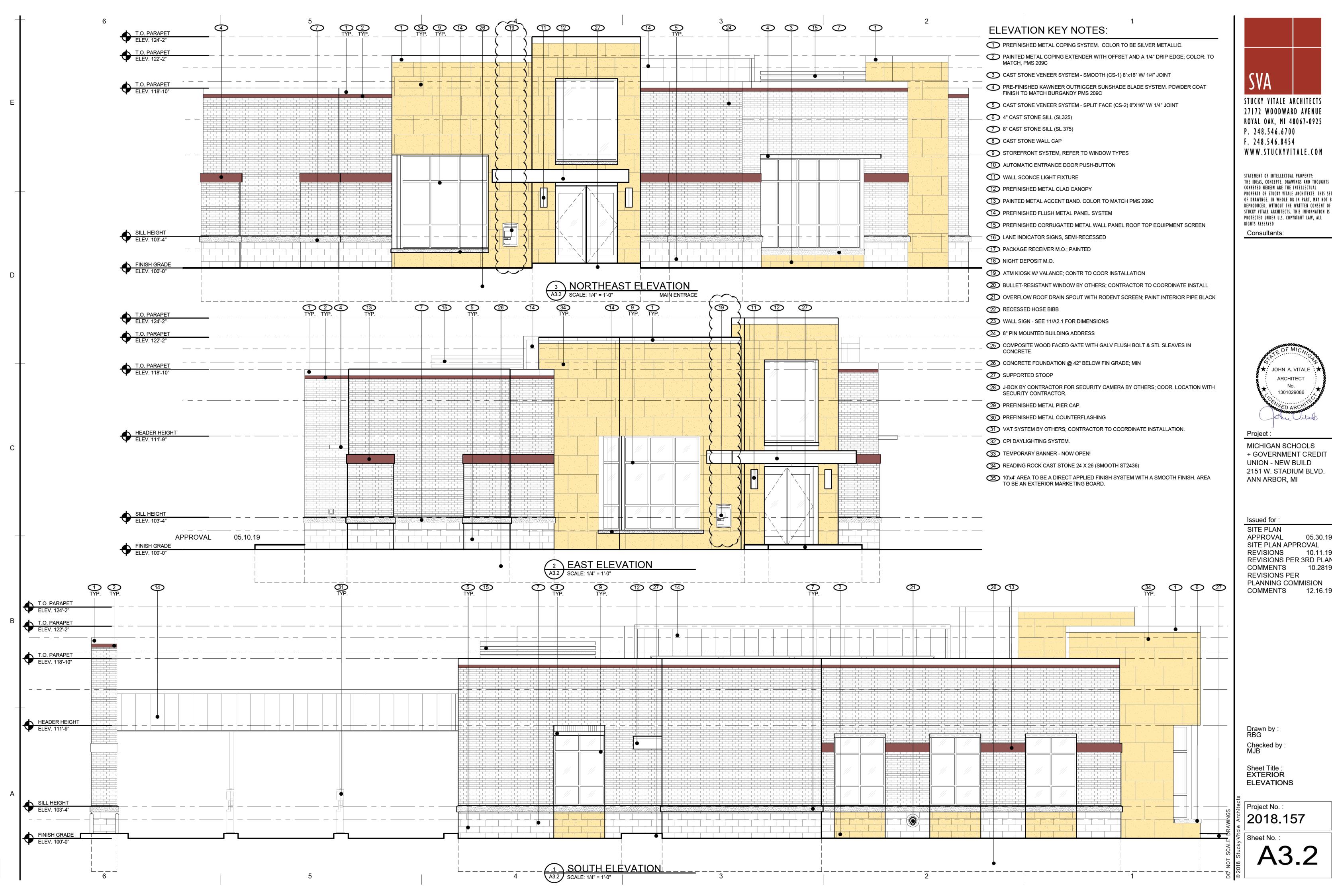
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