

Minutes
Cascade Charter Township
Parks Committee
Tuesday, September 19, 2023
8:00 A.M.
5920 Tahoe Dr

ARTICLE 1. Chair Wanty called the meeting to order at 8:02 A.M.
Members Present: Chair Ginny Wanty, Mike Reese, Supervisor Grace Lesperance, Eileen Boekestein, Joe Engel, Bill Otten, Matt Douglas
Members Absent: None
Others Present: Parks Director Melanie Manion, Manager Jade Smith, Planning Director Brian Hilbrands, Communications Specialist Rich Lakeburg, and others listed on the sign-in sheet.

ARTICLE 2. Approve the current Agenda

Motion was made by Member Engel to approve the agenda. Supported by Member Otten. Motion carried 5 to 0.

Member Douglas arrived at 8:06 A.M.

ARTICLE 3. Approve the Minutes of the August 15, 2023 Meeting

Members Otten and Douglas were absent during the August 15 meeting.

Motion was made by Member Engel to approve the August 15, 2023 meeting minutes with the above correction. Supported by Member Reese. Motion carried 6 to 0.

ARTICLE 4. Public Comment

John Giddens attended the meeting to get updates and expressed his joy to see progress in the parks department.

ARTICLE 5. Introduction of New Township Manager, Jade Smith

Manager Smith has worked in local government for 20 years and most recently worked for Canton Township. He is excited to see what will be accomplished in Cascade's parks.

Supervisor Lesperance arrived at 8:12 A.M.

ARTICLE 6. Old Business

Previously Article 7.

a) Bench policy – Joe Engel, Parks Committee Secretary

Member Engel addressed a need for a bench and naming policy for individuals wanting to donate.

Some items noted by Staff and Members included remaining flexible on where benches can be placed, incorporating an ADA compliant concrete pad next to some benches, and rewording the memorial plaque ordinance.

Members agreed upon pricing the benches at \$5,000 which will help cover the cost of the bench, installation, and maintenance. Member Engel will draft policy incorporating committee's suggestions.

b) 2024 budget – Melanie Manion, Parks & Recreation Director

Parks Director Manion expressed gratitude for Manager Smith as he will help to create a 2024 Parks budget.

Manager Smith stated that the township is behind on completing the budget process, but progress is being made to meet the end-of-the-year timeline.

Chair Wanty mentioned the need to budget for continued funding of to the Kent Conservation District's efforts and a contingency fund for invasive species.

Supervisor Lesperance said it would be beneficial to establish good relations with Cascade businesses in hopes of more partnerships, millage support, and philanthropy.

ARTICLE 7. New Business

Previously Article 6.

a) Nature play area for Wycliffe Trailhead Park – Evan Cline, ODC Network

Evan Cline designs and builds nature playscapes and outdoor learning environments at the Outdoor Discovery Center (ODC). More than 25 play structures have been completed for schools, libraries, and parks. All landscaping and structures are built according to playground safety standards, and thorough hazard assessments are always conducted. They sometimes outsource equipment from vendors such as Kompan.

Parks Director Manion said there was discussion on building a hybrid playground by incorporating elements from various vendors, instead of solely constructing a natural playscape.

Cline said they primarily use big osage orange or black trees (locally sourced, if possible) to create their projects, which will last 20 to 30 years. Parks Director Manion preferred to have ODC design and build the structures, but mentioned they are busy until late next year.

Parks Director Manion will be creating an RFP to narrow the scope of work and get the project ready for bids.

ARTICLE 8. Director's Report

Parks Director Manion provided an update sheet located in the meeting packet. Some crucial updates included meeting with Plaster Creek Stewards to discuss potential

partnerships, Kent Conservation completed invasive bittersweet training, and the remainder of trees from the DTE grant were planted.

ARTICLE 10. Park Chair Announcement – Ginny Wanty, Parks Committee Chair

There will be a future meeting held at the Kent District Library so members can observe the proposed park area.

Manager Smith said there has been difficulty prioritizing the deer management issue in Cascade for this year.

ARTICLE 13. Adjournment

Motion was made by Member Engel to adjourn the meeting. Supported by Member Reese. Motion carried 7 to 0. The meeting adjourned at 9:41 A.M.

Respectfully submitted,

Joe Engel, Secretary

DRAFT

Parks and Recreation Director's Report

October 2023

Outreach/Partnerships

- Worked with Grand Rapids Triathlon to pass a resolution to close streets for the 2024 Triathlon.
- Secured Habitat for Humanity to remove items from doctor's office that could be reused.

Volunteer Program

- Launched first Tuesdays at Ten program. Volunteers removed autumn olive at Peace Park and invasives along the Thornapple at Tassell Park.
- Began creating trails at Wycliffe Trailhead Park.
- Prepared beds and planted native species at Tassell Park.

Committees

- Large woody debris was moved out of the navigable water within the Thornapple River as part of the Thornapple SAD.
- Pathways Committee discussed ebike use on the pathways and 2024 reconstruction projects.

Park Updates

- **Burton Park**
 - Kent Conservation District continued to spray invasive bittersweet.
 - Received new bench donation.
- **Cascade Park**
 - Two new drinking fountains were installed to replace leaking dilapidated fountains.
 - Trees were watered weekly to ensure survival. Final report for the DTE grant was submitted.
- **Friendship Park**
 - Received \$450,000 from the Revitalization and Placemaking Program for the creation of Friendship Park.
 - Will begin site preparation once contract with Harder Warner is signed.
 - Final design of pavilion is almost complete.
- **McGraw Park**-no updates at this time.
- **Memorial Park**-
 - Benches were stained.
 - Ramp to museum was repaired. Painting will be completed by the end of October.

- **Peace Park**
 - Held workday removing autumn olive.
 - Graffiti was removed.
 - Received new bench donation.
- **Tassell Park**
 - Landscape beds were planted.
 - Deck was power-washed and stained.
- **Wycliffe Trailhead Park**
 - Created pathway. Still need to finish applying woodchips on natural trail and chips and fine on ADA accessible trail.
 - Planted swamp rose, buttonbush, ninebark, serviceberry and elderberry to block view of neighbor's house.

Other

- Spent considerable amount of time creating 2024 budget and capital improvement requests.
- Assessing various software to assist with asset management and preventative maintenance.
- Secured training for staff for playground safety inspection and watershed management.
- Annual staff evaluations.
- Planted medians with native species adapted to full sun, dry and salt.
- Turned off water for the season at parks.

CASCADE CHARTER TOWNSHIP

COMMEMORATIVE BENCH DONATION POLICY AND APPLICATION

POLICY OVERVIEW

The Cascade Township Parks and Recreation Department welcomes the opportunity to work with donors interested in honoring or memorializing significant individuals in their lives. Your kind gift will allow the township to provide an attractive, durable bench and commemorative plaque in a location that is meaningful to the donor and honoree.

THE DETAILS

- All benches will be approximately six feet in length made of weather-resistant composite. Specific bench design will be determined by the Parks Department. Plaques will be inlaid bronze, 4" x 8", and inscribed in accordance with the donor's wishes as designated on the attached *application form*. The township reserves the right to review the proposed inscription to ensure compliance with applicable state and federal law.
- The township will make every effort to honor the donor's wishes as to the bench's location, including the specific park, trail, or pathway. The Parks Director reserves the right to work with the donor to ensure the final location aligns with the township's master plan, a particular park's needs, and otherwise provides users with optimal access and usability.
- The township will maintain the bench for a minimum of ten years, after which time it may be replaced when and as/if needed. The original donor has the right of first refusal on renewing or replacing the bench at that time.
- The donor cost of a commemorative bench and plaque is \$5,000, with the proceeds being used to purchase, install, and maintain the bench, as well as providing continued support for our wonderful park system here in Cascade. The donation must be completed prior to the ordering of the bench and plaque.
- Once the donation is received and the inscription and location are confirmed, township staff will complete installation within six months. This timeline could vary, depending on weather or materials availability.
- Exceptions to this policy may be considered at the discretion of the Parks Director.

THE BENEFITS

Cascade Township is blessed with incredible natural and recreational resources including lakes, rivers, pathways, parks, and open spaces. Your support provides users of all ages the opportunity to experience these gifts, on their own terms, while at the same time recognizing those positive influences that have made a difference in your life. A win-win, all the way around. Thank you for making a difference!

CASCADE CHARTER TOWNSHIP
COMMEMORATIVE BENCH DONATION APPLICATION

Donor(s) Name: _____

Street Address: _____ City: _____ State: _____ Zip: _____

Cell: _____ Home phone: _____ Email: _____

Preferred bench location (optional): _____

Plaque inscription: A maximum of 72 letters/characters, on up to 4 lines. A final proof of the inscription and layout will be provided to the donor prior to placing the order for the plaque.

Inscription language:

Payment: Checks may be made payable to "Cascade Charter Township". Please contact the Cascade Township Clerk for additional payment options. The completed application and check may be mailed to Cascade Charter Township, 5920 Tahoe Dr, Grand Rapids, MI 49546. They may also be dropped off at the Cascade Township Hall during normal business hours or placed in the secure, after-hours receptacle located in front of the building.

Cascade Township Parks and Recreation

2023-2027 Master Plan

Action Item Priority Matrix - 2023

2023-2027 Goals

1. Ensure that existing parks meet the needs of the community we serve	PC	Parks Committee	P	progressing
2. Create plans that identify future pathway routes	TMD	Township Maintenance Director	C	complete
3. Refine the Township's parks organization structure and support	TS	Township Staff	I	incomplete
4. Identify and allocate appropriate funds for parks	DDA	Downtown Development Authority		
5. Preserve natural areas and open space	PWC	Pathways Committee		
6. Develop a gathering space with planned downtown village	TB	Township Board		
7. Identify space for new parks and preservation	PLC	Planning Commission		
8. Increase public awareness of parks				
9. Develop parks programming				

ACTION ITEMS - 2023

	GOAL	PARK/SITE	RESPONSIBILITY	STATUS
Create a parks maintenance plan	1	All	TMD, PC	P
Review of maintenance checklist/plan (biannual)	1	All	TMD, TS, PC	P
Review of maintenance & improvements budget (biannual)	1, 4	All	TMD, TS, PC, TB	P
Implement Wycliffe Trailhead Park improvements	1, 7	Wycliffe	PC, TS, TB	P
Create master plan for Township Rec Park	1, 5	Rec Park	PC, TS, TB	P
Peace Park drainage improvement	1	Peace	PC, TS, TB	P
Create a pathways maintenance plan	1, 2	Pathways	PWC, TS	C
Review regional pathways connections/opportunities (ongoing)	2	Pathways	PWC, TS	I
Identify proposed local pathways connections	2	Pathways	PWC, TS	I
Establish Parks Committee collaboration with Pathways Committee	2, 3	Pathways	PC, PWC	I
Resurface or reconstruct high priority sections of existing pathways	1, 2	Pathways	PWC, TS, TB	C
Review staff roles and responsibilities for parks, identify needs	3	All	PC, TS, TB	P
Research parks millage needs for improvements, maintenance, funding	4	All	PC, TS, TB	P
Build information, materials, support for parks millage	4	All	PC, TS, TB	P
Create list of properties scored with the land acquisition template	5, 7	All/Acquisition	PC, TS	I
Educate public about invasive species and tree diseases	5, 8		PC, TS, TB	P
Hold invasive species eradication work days	5	Burton, Peace	PC, TS	P
Host a spring Thornapple River cleanup day	5		PC, TS	I
Test and analyze Thornapple River quality	5		PC, TS	I
Write articles for newsletter regarding resource preservation	5, 8		PC, TS	I
Explore options and opportunities for a deer cull	5		PC, TS	P
Begin planning efforts for downtown gathering space	6	New Site	PC, TS, DDA, TB	P
Review and update zoning ordinance for open space requirements	7		PC, TS, PLC	I
Establish partnerships for use of open space & programming	7, 9		PC, TS	I
Update Township Parks website	8		PC, TS	P
Increase parks presence through Township social media	8		PC, TS	P
Annual review of signage and maps for parks and trails	8	All, Pathways	PC, PWC, TS	I
Annual review of parks and township brand/marketing/communications	8		PC, TS	P



October 2, 2023

Melanie Manion
Parks & Recreation Director
2870 Jacksmith Ave SE
Grand Rapids, MI 49546

RE: Construction Contract Award Recommendation for Friendship Park.

Dear Melanie,

This letter is to being provided to notify Cascade Charter Township of our recommendation for the award of the construction contract for Friendship Park. Seven landscape contractors were invited to bid on the proposed park improvements, and of those seven we received bids from three companies: Harder & Warner, Katerberg VerHage, and Koetje Landscaping. After reviewing the three bids, we recommend the Township award the landscape construction contract to **Harder & Warner**. Harder & Warner provided a competitive construction fee, detailed and comprehensive construction quote, and their proposed work schedule is in alignment with the Township's preferred timeline. This letter provides additional details which helped us arrive at our stated recommendation.

*NOTE: The construction bids provided reflect the 95% construction drawing set, which does not include the proposed pavilion and areas directly adjacent to the pavilion, as this area is currently still in design development. Other project items including the landscaping, irrigation, and similar features were also omitted from these initial bids and will be added to the selected contractor's scope when the construction set is complete.

Contractor Bid Comparisons

The detailed contractor bids which were received have been provided as an attachment to this document for reference. This section provides a summary and brief analysis of each bid. Please note, each bid varies slightly and are not exactly 'apples to apples'. Where necessary, we note where contractor quotes vary and adjustments that should be made to draw accurate comparisons.

Harder & Warner

Total Estimated Fee: \$556,108.00

Estimated Schedule: Begin construction October 2023, depending on when contract is executed. Perform preparation work and demolitions in the late fall/early winter, weather depending. Complete construction June 2024. Construction completion will depend on details of pavilion construction and is not guaranteed.

Native Edge and Harder & Warner have a solid relationship and have worked on many successful projects together. Harder & Warner is committed to excellence and client satisfaction and consistently delivers results. We are recommending Harder & Warner due to their fee being in the middle of the bids, their ability to start the project quickly, and our experience working with their team.

Harder and Warner Bid			
Item	Price (High)	Price (Low)	Notes
Site Work: Excavation	\$ 99,000.00		
Site Work: Base Construction	\$ 25,100.00	\$ 19,600.00	
Geotextile Fabric under Paths	\$ 1,850.00		
Site Work: Fine agg. Path Install	\$ 8,000.00		
Upgraded Edging	\$ 1,000.00		
Site Work: General	\$ 20,000.00		
Site Work: Underdrain	\$ 6,800.00		
Site Work: Tree Rem. Stump Grind	\$ 4,500.00		
Site Work: Wooded Area Clearing	\$ 10,000.00		
Mulching Woodland Floor	\$ 6,750.00		
Concrete Installation	\$ 130,000.00	\$ 75,000.00	Will go with low price - this is for the broomed finish which will be fine.
Ledgestone Outcropping	\$ 68,750.00	\$ 55,000.00	
Boulder Retention	\$ 17,000.00		
Paver Installation	\$ 37,850.00	\$ 32,250.00	
Maintenance Strip	\$ 5,650.00		
Utility Allowance	\$ 10,000.00		
Low voltage Lighting	\$ 18,400.00	\$ 12,650.00	
Furnishings Benches and Litter	\$ 94,283.00		Install alone would be \$13,800 if Twp wants to purchas
Furnishings Bottle Fill Station	\$ 16,175.00		
Fountain	\$ 30,000.00	\$ 25,000.00	
Total Estimated Fee	\$ 556,108.00		
Notes: Estimated fee assumes using the 'high' price for all budget items except for the concrete, which will feature the boomed versus sand-blasted finish.			

Katerberg VerHage

Total Estimated Fee: \$684,950.00

*Includes landscaping which was not required for base bid. If landscaping is removed, total estimated fee could be closer to \$600,000. A revised bid with landscaping removed has been requested from the contractor and will be provided once received.

Estimated Schedule: Begin construction Spring 2024. Complete construction summer 2024.

Katerberg VerHage is a great company who does high-quality work. Native Edge has experience working with them on other high-profile projects and were happy they submitted a bid for this project. However, due to their fee being higher than Harder & Warner, and their longer construction timeline, we decided to recommend Harder & Warner over Katerberg VerHage.

Katerberg VerHage Bid			
Item	Price (High)	Price (Low)	Notes
Core project items (see contract)	\$ 598,950.00		Does not include items provided below. Does include landscaping which will need to be removed.
Additional Items not in base bid			
Fountain	\$ 75,000.00		Does not include power or drainage lines
Drinking Fountain	\$ 11,000.00		Does not include power or drainage lines
Decomposed granite pathways	\$ 35,000.00		They provided a cheaper alternative which we will go with.
Sandblast finish on sidewalks	\$ 40,000.00		
21AA Aggregate base for sidewalks	\$ 4,000.00		
Total Estimated Fee	\$684,950		
Notes: Estimated fee does not include sandblast, 21AA aggregate, or decomposed granite pathways (uses alternative dolomite trail mix). Landscaping needs to be removed from quote. Fountain and drinking fountain were added to core project items.			

Koetje Landscaping

Total Estimated Fee: \$109,160.14

*Koetje’s fee did not include many of the required work items, as identified in the notes on their quote below. Some of the items were specified to be provided by the owner, which we was stated as being a suitable option if preferred.

Estimated Schedule: Undetermined.

Koetje Landscaping is another great landscape contractor that Native Edge has experience working with. However, their contract was missing many key project features which would require hiring additional contractors to fill the gaps. The project team feels it is preferable to have a landscape contractor who can do most of the site work in-house (or using their own subs) which is why we are not recommending Koetje Landscaping for this project.

Koetje Landscaping Bid			
Item	Price (High)	Price (Low)	Notes
Pavers	\$ 24,610.12	\$ 16,362.12	
Trees, Edging, Grass	\$ 22,587.05		
Site Lighting	\$ 16,056.42		
Boulders and Outcropping Walls	\$ 25,022.10		
Benches and Fountain	\$ 6,035.00		Installation only - fountain and benches provided by owner.
Gravel paths and maintenance strip	\$ 14,849.45		
Total Estimated Fee	\$ 109,160.14		
Notes: Estimated fee does not include site work for excavation and grading, removals of trees and soils, SESC and tree protections and fencings, clearing woodland areas, concrete installation, utility installation, and bottle fill station.			

Please let me know if you have any questions about the information provided in this letter. We are very excited to have received quality bids for this project and are looking forward to taking the next steps! As mentioned previously, the bids which were received by the contractors have been provided as an attachment to this letter.

With gratitude,

NATIVE EDGE, LLC



Wesley K. Landon, ASLA
Landscape Architect / Principal

Attachments [Contractor bids]

CONTRACTOR BIDS



Harder & Warner Landscape, Inc.
6464 Broadmoor Ave SE
Caledonia, MI 49316
Phone: (616) 698-6910
Fax: (616) 698-9711

Friday, September 29, 2023
Estimate# E16550

Native Edge
PO Box 140021
Grand Rapids, MI 49514
(616) 717-0656
wesley@natedgedeco.com

Friendship Park - Cascade Library

Designer: Benjamin Leonard

Site Work: Excavation

Excavation for 14,760 sqft of concrete base, paver base, and aggregate path base and disposal of excess material offsite. Area includes overexcavation beyond finished pavement for stable base. Includes additional 80 yd of contaminated soils overexcavated and special disposal offsite for invasive species contamination. Up to 135 yd topsoil stocked on site for site balancing, fill, and pavement edge fill. Includes minor site balancing per grading plans.

Total: \$99,000.00

Sitework: Base construction

Delivery and installation of Class 2 sand base compacted in 3" lifts for concrete and 21AA gravel base compacted in 3" lifts for fine aggregate paths. Concrete base priced as 4" base per spec or 6" base (recommended standard for sand)

Concrete:

4" base as spec'd: \$16,000

6" base (recommended): \$21,500

Aggregate paths:

3" gravel base: \$3,600

Sitework: Base construction Total: \$19,600.00 to \$25,100.00

Recommended upgrade: Geotextile underlayment installation for paths

5oz Geo-underlayment recommended between compacted subgrade and gravel subbase for extended stability/longevity. Prevents mixing of subgrade and gravel and combats the effects of excessive soil heaving in winter.

Add: \$1,850.00

Sitework: Fine aggregate path installation

Delivery and installation of stone screenings as spec'd, compaction and fine surface rake, installation of 120' 4" aluminum edging abutting lawn and planting zones (rolled edge planned for woodland paths as spec'd), and application of surface binder.

Total: \$8,000.00

Recommended upgrade: 5.5" 3/16 mill edging

This heavy commercial grade edging holds curves without bending and combats winter heaving/settling exceptionally well for less annual maintenance and project longevity.

Add: \$1,000.00

Sitework: General

-750' tree protection: proposed as steel posts and heavy duty orange fencing instead of chainlink fence (chainlink price provided on request, but is appx 4x more expensive)

-800' silt fence installed

-Gravel access ramp

-Silt sack installation/maintenance

-80' 24" rootbarrier

-Utility and irrigation sleeving

Total: \$20,000.00

Sitework: Underdrain installation as spec'd

Total: \$6,800.00

Sitework: Tree removal and stump grinding

For 10 trees per demo plan. If removal needs change during site walk with Landscape Architect, price may change accordingly.

Sitework: Tree removal and stump grinding Total: \$4,500.00

Sitework: Wooded area clearing

Intent for this area is to remove all undesirable scrub vegetation including large honeysuckle thickets, remove struggling/overpopulated/obstacle trees under 2" (all large thriving trees to be preserved), surface scraped to remove existing understory herbaceous material and balance relative grade (no extensive excavation or alteration of existing relative grade), removal to greatest extent of existing invasive species (it is understood that this space will be monitored and invasives treated over the next several seasons). Woody material removed (trees, honeysuckle, etc.) will be chipped and spread onsite or removed and disposed of offsite at direction of Landscape Architect.

Total: \$10,000.00

Recommended addition: Light mulching woodland floor

natural hardwood mulch blown in to cover wooded area floor after path installation to provide a clean, finished look for project while invasive management program is in progress. Tougher understory plant material and invasives will grow through the mulch layer, but it will help manage the majority of light dependent undesirable species ("weeds").

Add: \$6,750.00

Concrete installation

Priced for 9,430 sq ft of 4" concrete with the understanding that the remaining area to the north will be developed further and added later. Proposing 4" concrete with welded wire mesh. Joints tooled as spec'd. Expansion joints as spec'd, but price does not included caulking joints(price provided separately). Options for both standard broomed finish and light wash/sandblast finish.

Broomed finish: \$75,000

Light wash/sandblast: \$130,000

Total: \$75,000.00 to \$130,000.00

Ledgestone outcropping walls

Walls to be 1.5' to 2' above lower grade with minimum 6" embedment. Walls constructed as spec'd with 5oz heavy geotextile fabric backing and sub-drain system. Material to be quarried limestone - typical thickness is 9" to 11". Walls to be constructed with uniform thickness across courses for level top. Finished wall to be appx 500ff to 625ff - final size to be determined with Landscape Architect during pre-construction.

Total: \$55,000.00 to \$68,750.00

Boulder retention

Boulder wall constructed as spec'd with 5oz heavy geotextile backing. Boulders to be sized as needed but no less than 2' relative. Constructed with minimum 6" embedment. Wall to be appx 210ff to 283'ff.

Boulder retention Total: \$17,000.00

Paver installation

700 sq ft of pavers installed as inlay. Price includes base construction, concrete 'mudpan' subbase with 1" weep holes on 24" centers and underdrain as needed. Proposing a Hollandstone or similar soldier border course to allow for cleanest radius cut around outer edge of large format paver field. Priced for Umbriano and Beacon Hill Smooth paver products (both Unilock). Pavers finished with polymeric joint sand.

Umbriano: \$37,850

Beacon Hill Smooth: \$32,250

Paver installation Total: \$32,250.00 to \$37,850.00

Maintenance strip installation as spec'd

Total: \$5,650.00

General utility allowance

This is a budget recommendation for electrical and plumbing needs. This may include installation of power receptacles throughout the site and plumbing for irrigation and will definitely be required for water service to bottle filling station and power to fountain. This budget item is intended as a placeholder at this time and can be firmed up as more details arise.

Total: \$10,000.00

Low voltage lighting installation

Includes lighting system installed as spec'd with Low voltage transformer, direct bury wire, all fixtures as called out, and high quality copper crimp and silicone capsule connections (no twist on 'gel-caps' to be used). Includes astronomical timer for hands free control that updates daily. Upgrade option provided for alternate solid brass fixtures with lifetime warranty. Samples provided on request.

Called out fixtures: \$12,650

Solid brass fixtures: \$18,400

Total: \$12,650.00 to \$18,400.00

Furnishings: Benches and litter

As spec'd from Landscape Forms.

Furnishing delivered: \$80,483

Handling/assembly/installation: \$13,800

Total: \$94,283.00

Furnishings: Bottle fill station

Elkay station as spec'd. Priced for delivered and installed. Additional plumbing required for water service.

Bottle fill station delivered: \$14,675

Installation: \$1,500

Furnishings: Bottle fill station Total: \$16,175.00

Fountain budget

Includes excavation and installation of footer and slab, plumbing into basin slab for autofill from irrigation mainline, delivery and setting of tiered fountain, delivery and installation of 8' surround, sealing/waterproofing joints.

Due to size and fragility of stone fountain and surround, this should be installed prior to surrounding concrete flatwork to allow close proximity machine access. Final pricing determined after exact fountain/surround selected. Pricing based on spec's provided.

Fountain budget Total: \$25,000.00 to \$30,000.00

Client Signature: _____ Date: _____

Payment Schedule

Upon Contract Signing TBD
Upon Project Completion TBD

Payment Terms: Due Upon Receipt

Note:

- 1. **GUARANTEE:**
The goal of Harder & Warner Inc. is to provide quality workmanship and products to our customers. We guarantee that our work in all phases, will be performed in a professional manner.

All "Woody plants, (except Rhododendrons, Azaleas, annuals, perennials, groundcovers, roses and bulbs) furnished and planted by Harder & Warner Inc., which fail within one year from date of planting, will be replaced once. Harder & Warner will supply the replacement materials needed while the customer will be charged for the necessary labor.

Seed and sodded lawn installations carry no guarantee. Future care and weather conditions are beyond our control and these are the primary factors in determining a lawns vigor.

There is no guarantee on transplanting work.

Failure to comply with agreed payment terms nullifies all guarantees.

This guarantee is in accordance with the Grand Rapids Nursery Landscape Association standard contract.

2. TIME AND MATERIAL CONTRACT:

All orders indicated as such on page #1 will be performed on a time and material basis. All labor and materials incidental to the work, travel time to and from the job site, heavy equipment and subcontract fees will be charged to the client.

3. BID QUOTATION CONTRACTS:

All orders indicated as bid quotations will be billed at the stated (or quoted price).

4. STANDARDS:

Unless otherwise specified, all material and workmanship will conform to the American Association of Nurserymen and Grand Rapids Nursery and Landscape Association Specifications.

5. INSURANCE & LICENSING:

We are properly insured for your protection. A residential builder or residential maintenance and alteration contractor is required to be licensed under article 24 of the occupational code, 1980 PA 299, MCL 339.2401 to 339.2412. An electrician is required to be licensed under the electrical administrative act, 1956 PA 217, MCL 338.881 to 338.892. A plumbing contractor is required to be licensed under the state plumbing act, 2002 PA 733, MCL 338.3511 to 338.3569. A mechanical contractor is required to be licensed under the Forbes mechanical contractors act, 1984 PA 192, MCL 338.971 to 338.988.

6. ACCEPTANCE:

The stated prices, specifications, and conditions are satisfactory and hereby accepted. Harder & Warner Inc. is hereby authorized to do this work as specified and payment will be made as outlined herein.

7. TERMS:

1/2 deposit or authorized company purchase order required to schedule jobs. Deposits or payments by charge card for landscape work require 2% to be added to the invoiced amount. Net amount due upon completion of work, or upon submission of monthly progress invoice. All invoices 30 days past due are subject to 2% per month or 24% annual finance charge.



September 29, 2023

Nativedge
PO Box 140021
Grand Rapids, MI 49514

Project: KDL Cascade Township – Friendship Park

The following is a proposal for the construction of Friendship Park at Kent District Library Cascade Township Branch. This proposal is based on 95% construction drawings dated 9/6/2023. Due to incomplete drawings, some things have been excluded.

Included

- General conditions - SESC, site security, sanitary facilities, construction staking
- Removals
- Site grading - mass grading is included for the area around the pavilion.
- 4" underdrain
- Site concrete –includes MDOT class 2 sand subbase in lieu of 21AA. Concrete will be finished with a light broom finish.
- Aggregate pathways –includes dolomite trail mix aggregate in lieu of decomposed granite
- Stone maintenance strip
- Brick pavers
- Boulder & outcropping walls
- Landscape & native plantings and seeding
- Lawn restoration
- Provide & install site furnishings – benches & trash receptacles
- Install owner provided site furnishings – picnic tables
- Low voltage lighting system – a 120V receptacle will need to be provided by the owner near the park
- Sculpture re-installation

Excluded

P&P bonds, special insurance, special engineering, sandblasted concrete finish, 21AA base for concrete flat work, decomposed granite, concrete & other work around the pavilion, drinking fountain, 3-tier fountain, underground utilities, seeding in pond easement to the east, irrigation, materials testing

Total Proposal = \$598,950.00

For reference, estimated values of alternate items are below:

- 3-tier fountain – includes fountain & installation. Does not include power, water supply line, or drainage line
ADD = \$75,000.00
- Drinking Fountain – includes Elkay fountain & installation. Does not include water supply line or drainage line
ADD = \$11,000.00
- Decomposed Granite Pathways
ADD = \$35,000.00
- Light sandblast finish on sidewalks
ADD = \$40,000.00
- 21AA aggregate base for sidewalks
ADD = \$4,000.00
- Owner provides benches & trash receptacles
DEDUCT = \$73,000.00

Thank you,

Joel Franken

Project Manager

joelf@katerbergverhage.com

Friendship Park

Estimate Approval - BK-208



Koetje Landscaping, LLC

Friendship Park

2870 Jacksmith Ave. SE.
Grand Rapids, MI 495346

Koetje Landscaping

brian@koetjelandscaping.com
(616) 304-4553

Paver patio	\$16,362.12
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These workareas are: Quoted Price pricing*

Install paver patio using Belgard Dimensions 12 in Scandina Gray. If we use Unilock Umbriano add \$8,248.00

Trees and edging	\$22,587.05
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These workareas are: Quoted Price pricing*

Plant trees, install mulch around the trees, install black aluminum edging, sod and hydroseed.

Topsoil to grade provided by Owner/ Builder

Low voltage lighting	\$16,056.42
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These workareas are: Quoted Price pricing*

Install low voltage lighting. This includes (2) 300 w transformers and (2) photo cells.

Boulders and outcrop rock walls	\$25,022.10
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These workareas are: Quoted Price pricing*

Install boulder and outcropping walls.

Install benches and fountain	\$6,035.00
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These workareas are: Quoted Price pricing*

Install fountain and benches supplied by owner.

Install gravel path and maintenance strip	\$14,849.45
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These workareas are: Quoted Price pricing*

Install decomposed granite pathway and gravel maintenane strip

Date: _____

(due on signing) Down Payment \$33,301.01

(due on
mm/dd/yyyy) Final Payment \$67,611.13

Name: _____

Total **\$100,912.14**

Signature:

* Sales tax, if applicable, is not represented on this proposal

Terms and Conditions:

Landscape Proposals:

- 50% down on acceptance; 50% upon completion.

Proposal good for 30 days.

* Quoted Price: The provided price will be the amount on the final invoice.

* Time and Materials Price: Is billed based on actual Labor and Materials, meaning the price shown is just an estimate.

* Flat Rate Price: Price shown is just an estimate, you will be billed on a "per service" basis.

FRIENDSHIP PARK

Kent District Library - Cascade Township Branch
 2870 Jacksmith Ave SE
 Grand Rapids, MI 49546

95% Construction Documents

September 6, 2023

PROJECT TEAM

CLIENT:
Kent District Library - Cascade Township Branch
 2870 Jacksmith Ave SE,
 Grand Rapids, MI 49546
 Contact: Lulu Brown
 Phone: (616) 784-2007

LANDSCAPE ARCHITECT /
 PRINCIPAL-IN-CHARGE:
Native Edge, LLC
 PO BOX 140021
 Grand Rapids, MI 49514
 Contact: Wes Landon, ASLA
 Phone: (616) 717-0656

SURVEYOR
Feenstra & associates, Inc.
 7482 Main Street,
 Jenison, MI 49428
 Contact: David Hanko
 (616) 457-7050

ARCHITECT
The Design Forum Inc.
 PO Box 561,
 Belmont, MI 49306
 Contact: Neale Bauman, AIA
 (616) 438-9101

ENGINEER
Classic Engineering
 100 Grandville Ave SW, Ste. 400
 Grand Rapids, MI 49503
 Contact: Larry Wood, PE
 (616) 742-2810

SHEET INDEX

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G2	NOTES
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PROJECT AREA MAP

NOT TO SCALE

- APPROXIMATE PROPERTY LINE
- APPROXIMATE PROJECT AREA

LANDSCAPE AREA IMPROVEMENTS
KENT DISTRICT LIBRARY -
CASCADE TOWNSHIP BRANCH

PREPARED FOR:
 Kent District Library
 2870 Jacksmith Ave SE
 Grand Rapids, MI 49546

#	DATE	ISSUE / REVISION
1	3/21/23	50% Construction Docs
2	9/6/23	95% Construction Docs

SEAL

DATE: 9/7/23

PROJECT No.: NE22701.01

ISSUE / REVISION: 2

SCALE: NOT TO SCALE

SHEET TITLE

COVER SHEET

SHEET

G1

SHEET No. 1 OF 36

GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, CODES, ORDINANCES, AND REGULATIONS.
- NATIVE EDGE IS THE PRINCIPAL-IN-CHARGE AND WILL BE THE PRIMARY POINT OF CONTACT FOR ALL CONTRACTORS AND SUBCONTRACTORS DURING CONSTRUCTION, AND WILL COORDINATE WITH THE CLIENT AS NEEDED THROUGHOUT CONSTRUCTION.
- CONTRACTORS WORKING ON THIS PROJECT ARE RESPONSIBLE FOR COORDINATING THEIR WORK WITH OTHER PROJECT CONTRACTORS, SUBCONTRACTORS, THE CLIENT, AND LANDSCAPE ARCHITECT, TO ENSURE A STREAMLINED AND EFFICIENT CONSTRUCTION PROCESS.
- PRIOR TO BEGINNING WORK CONTRACTOR SHALL CALL MISS DIG AND HAVE ANY UNDERGROUND UTILITIES LOCATED.
- LOCATIONS OF UTILITIES AND EXISTING FEATURES TO BE VERIFIED BY THE CONTRACTOR. EXISTING UTILITIES AND FOUNDATIONS AS SHOWN ARE NOT GUARANTEED, NOR IS THERE ANY GUARANTEE THAT ALL EXISTING UTILITIES ARE SHOWN ON THE DRAWINGS. IF UNDERGROUND UTILITIES ARE ENCOUNTERED THAT ARE NOT SHOWN ON THE PLANS, NOTIFY THE THE CLIENT IMMEDIATELY.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK AND VERIFY PROPOSED GRADES, DIMENSIONS, AND EXISTING CONDITIONS. ANY DISCREPANCIES BETWEEN THE PLANS AND THE ACTUAL SITE CONDITIONS SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT FOR DIRECTION BEFORE PROCEEDING WITH WORK.
- THE LIBRARY WILL MAINTAIN OCCUPANCY AND OPERATION THROUGHOUT THE CONSTRUCTION PERIOD. CARE IS TO BE TAKEN TO ENSURE DISTURBANCES TO TRAFFIC FLOW AND ACCESS TO THE LIBRARY ARE MINIMAL AND ANY CONSTRUCTION ACTIVITIES WHICH WILL IMPACT SITE ACCESS FOR LIBRARY STAFF AND VISITORS SHALL BE REVIEWED WITH AND APPROVED BY THE LIBRARY STAFF PRIOR TO PROCEEDING WITH THE WORK.
- CONTRACTOR IS RESPONSIBLE FOR ALL MATERIALS, TOOLS, EQUIPMENT, AND ANY OTHER ITEMS RELATED TO CONSTRUCTION OF THE WORK.
- CONTRACTOR SHALL FOLLOW THESE CONSTRUCTION DOCUMENTS AND CONSULT WITH THE LANDSCAPE ARCHITECT BEFORE DEVIATING FROM THESE DOCUMENTS.
- THE CONTRACTOR SHALL MAINTAIN A CLEAN AND ORDERLY WORK SITE FOR THE DURATION OF CONSTRUCTION. TRASH AND DEBRIS SHALL BE PICKED UP AND DISPOSED OF EACH DAY. VEHICLES AND EQUIPMENT SHALL BE CLEANED AND MAINTAINED SO AS NOT TO CONTAMINATE THE PROJECT AREA. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL LEAVE THE PROJECT SITE IN A PRISTINE CONDITION.
- ANY PROPERTY THAT IS DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES FROM THIS PROJECT SHALL BE REPLACED OR REPAIRED TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.

MATERIAL SAMPLES AND SHOP DRAWINGS

- CONTRACTOR TO PROVIDE MATERIAL SAMPLES FOR ALL APPROPRIATE MATERIALS (MULCH, STONE, PAVING MATERIAL, LANDSCAPE MATERIALS, ETC.) TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO PURCHASING AND DELIVERING SAID MATERIALS.
- CONTRACTOR TO PROVIDE SHOP DRAWINGS AS REQUESTED BY LANDSCAPE ARCHITECT FOR PROPOSED SITE FEATURES, OR WHENEVER A PROPOSED FEATURE DEVIATES FROM THE DRAWINGS AND SPECIFICATIONS PROVIDED IN THE PLANS.

SITE PREPARATION

- SOIL EROSION AND SEDIMENTATION CONTROL (SESC)
 - SESC MEASURES TO BE IMPLEMENTED AS SHOWN ON THE PLANS BEFORE CONSTRUCTION ACTIVITIES CAN BEGIN.
 - SESC MEASURES IN ADDITION TO WHAT IS SHOWN ON THE PLANS MAY BE NECESSARY IN ORDER TO PREVENT SEDIMENT ESCAPING THE CONSTRUCTION SITE.
 - THE CLIENT MAY DIRECT ADDITIONAL SESC MEASURES TO BE IMPLEMENTED.
 - SESC MEASURES TO BE PLACED SO THAT THEY INTERCEPT ANY POTENTIAL SEDIMENT THAT MAY LEAVE THE SITE OR FIND ITS WAY INTO AN ADJACENT WATER BODY.
 - SESC MEASURES TO BE MONITORED BY THE CONTRACTOR AND CLEANED AS NEEDED THROUGHOUT CONSTRUCTION.
 - DAMAGED SESC MEASURES TO BE REPLACED IMMEDIATELY.
 - CATCH BASINS AND MANHOLES WITHIN THE CONSTRUCTION AREA THAT ARE ALSO SUBJECT TO CONSTRUCTION TRAFFIC SHALL BE PROTECTED WITH RIPRAP.
 - SESC CONTROL MEASURES TO BE MAINTAINED IN PROPER WORKING ORDER THROUGHOUT THE CONSTRUCTION ACTIVITIES AND MONITORED BY THE CONTRACTOR.
- STAGING/ACCESS
 - CONTRACTOR TO COORDINATE WITH THE CLIENT TO ESTABLISH CONSTRUCTION SIGNAGE AND SECURE THE SITE DURING CONSTRUCTION ACTIVITIES. THE CLIENT WILL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING CONSTRUCTION SIGNAGE AND ACCESS DURING CONSTRUCTION AS SHOWN ON THE PLANS.
 - THE SOUTH EAST PARKING LOT IS TO BE THE STAGING AREA FOR CONTRACTORS, CONSTRUCTION EQUIPMENT, MATERIALS, AND SITE ACCESS. IF ADDITIONAL ROOM FOR STAGING IS NEEDED THE CONTRACTOR SHALL COORDINATE WITH THE CLIENT TO DETERMINE ADDITIONAL OPTIONS.
- DEMO & PROTECTION
 - EXISTING FEATURES ARE TO REMAIN AND BE PROTECTED DURING CONSTRUCTION UNLESS IDENTIFIED IN THE PLANS FOR REMOVAL. IF EXISTING FEATURES SUCH AS SIGNS, OR OTHER SMALLER SITE ITEMS NEED TO BE REMOVED FOR CONSTRUCTION OPERATIONS THEY SHALL BE REPLACED BY THE CONTRACTOR BEFORE PROJECT CLOSEOUT.
 - CONTRACTOR TO CONFIRM WITH THE CLIENT SITE FEATURES THAT ARE TO BE DEMOLISHED AND REMOVED.
 - DEMOLISHED MATERIALS ARE TO BE REMOVED FROM SITE AND DISPOSED OF ACCORDING TO THE LOCAL LAWS AND ORDINANCES.
 - ITEMS ENCOUNTERED BELOW GRADE AND NOT SHOWN ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE CLIENT IMMEDIATELY.
 - CLEARING AND GRUBBING ACTIVITIES
 - CLEARING AND GRUBBING TO BE COORDINATED WITH THE LANDSCAPE ARCHITECT AND THE KENT CONSERVATION DISTRICT STRIKE TEAM.
 - WITHIN THE CLEARING AND GRUBBING FOOTPRINT AS SHOWN ON THE PLANS, THE CONTRACTOR IS TO REMOVE ALL MATERIAL HERBACEOUS VEGETATION DOWN TO THE SOIL LEVEL. TREES AND WOODY VEGETATION WHICH ARE TO BE PRESERVED WILL BE MARKED WITH HIGH VISIBILITY FLAGGING TAPE. ALL UNMARKED WOODY VEGETATION SHALL BE REMOVED. LARGE TREES TO BE REMOVED WILL BE SPECIFICALLY MARKED AND SHOWN TO THE CONTRACTOR.
 - WOODY VEGETATION TO BE REMOVED SHALL BE CUT AND GRINDED DOWN AS NEEDED - PULLING WOODY VEGETATION OUT AND DISTURBING THE SOIL PROFILE IS DISCOURAGED AND SHALL BE MINIMIZED DUE TO INVASIVE SPECIES CONCERNS.
 - WOODLAND AREA TO BE LIGHTLY SMOOTHED AND GRADED AFTER CLEARING WORK IS COMPLETED.

TREE PROTECTION

- EXISTING TREES WITHIN OR ADJACENT TO THE PROJECT AREA ARE TO BE PROTECTED AT ALL TIMES DURING CONSTRUCTION.
- EXISTING TREES ARE TO HAVE TREE PROTECTION FENCING INSTALLED AT THEIR DRIPLINES, OR AS CLOSE AS POSSIBLE TO THEIR DRIPLINES, TO PROTECT THE TREE ROOTS FROM COMPACTION DUE TO CONSTRUCTION ACTIVITIES.
- IN INSTANCES WHERE THE SITE PLAN PREVENTS THE INSTALLATION OF TREE PROTECTION FENCE WITHIN PART OR ALL OF A TREES DRIPLINE, EXTREME CARE IS TO BE TAKEN TO LIMIT CONSTRUCTION ACTIVITIES AND ACCESS OF HEAVY EQUIPMENT WITHIN THIS AREA TO THE GREATEST EXTENT POSSIBLE TO PREVENT IMPACTING THE TREES ROOT SYSTEM.
- ROOT PROTECTION & PRUNING
 - WHEN EXCAVATION IS REQUIRED WITHIN THE TREE DRIPLINE SOME ROOT PRUNING MAY BE NECESSARY. IDENTIFY ROOT PRUNING AREAS WITH THE LANDSCAPE ARCHITECT PRIOR TO CONDUCTING ANY ROOT PRUNING ACTIVITIES.
 - STRUCTURAL ROOTS WITHIN 3X THE DIAMETER OF THE TREE (2' DIAMETER TREE STRUCTURAL ROOT ZONE EXTENDS OUT 6' FROM THE TREE) ARE NOT TO BE DISTURBED UNDER ANY CIRCUMSTANCES UNLESS CONFIRMED WITH THE LANDSCAPE ARCHITECT.
 - EXCAVATION WITHIN TREE ROOT ZONES SHALL BE LIMITED TO THE SMALLEST EXTENT ALLOWABLE ACCORDING TO THE CONSTRUCTION DOCUMENTS, AND SHALL BE EXTENDED AS FAR FROM THE TREE TRUNK AS POSSIBLE..
 - IN AREAS WHERE ROOT PRUNING IS REQUIRED THE CONTRACTOR SHALL DIG A ROOT PRUNING TRENCH WHICH SHALL BE MARKED ON THE GROUND AT THE EXTENT OF THE ROOT PRUNING ZONE.
 - THE TRENCH SHALL BE CLEARED IN A WAY THAT EXPOSES THE ROOTS WHILE LEAVING THEM INTACT BY USING HAND TOOLS OR AN AIR KNIFE. DO NOT USE AN EXCAVATOR TO CLEAR SOIL AROUND TREE ROOTS.
 - CONSULT WITH THE OWNER/LANDSCAPE ARCHITECT IF ROOTS LARGER THAN 2" NEED TO BE PRUNED.
 - ONCE THE ROOTS ARE EXPOSED USE A SHARP TOOL TO CLEANLY CUT ALL ROOTS TO THE DEPTH OF THE PROPOSED DISTURBANCE. CHAIN SAWS ARE NOT ACCEPTABLE FOR CUTTING TREE ROOTS. IN AREAS WHERE THE ROOTS ARE ADJACENT TO NEW OR EXISTING HARDSCAPES, TREE ROOT BARRIERS ARE TO BE INSTALLED AT THE EDGES OF THE NEW PAVEMENT.
 - ALL ROOTS SHALL BE LEFT WITH CLEAN, SMOOTH ENDS AND NO RAGGED EDGES.
 - EXPOSED TREE ROOTS MUST BE KEPT MOIST THROUGHOUT CONSTRUCTION. COVER WITH MOIST BURLAP TO PREVENT DRYING.

LAYOUT NOTES

- ON-SITE VERIFICATION OF ALL DIMENSIONS AND CONDITIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. WRITTEN DIMENSIONS WILL TAKE PRECEDENCE OVER SCALED DIMENSIONS.
- CONSTRUCTION STAKING TO BE PERFORMED BY PROJECT ENGINEER. PROVIDE LANDSCAPE ARCHITECT WITH ANY CONSTRUCTION STAKING NEEDS 72 HOURS PRIOR TO EXECUTION OF WORK THAT DEPENDS ON THE CONSTRUCTION STAKING SO THE LANDSCAPE ARCHITECT CAN COORDINATE WITH THE PROJECT ENGINEER.
- SHOULD SITE CONDITIONS BE DIFFERENT THAN WHAT IS INDICATED ON THE DRAWINGS CONTACT THE LANDSCAPE ARCHITECT FOR CLARIFICATION.
- FOR DIMENSIONS OF PROPOSED BUILDING IMPROVEMENTS AND OTHER DETAILED SITE ELEMENTS REFER TO THE ARCHITECTURAL DRAWINGS AND DETAIL SHEET.
- MEASUREMENTS ARE TO FACE OF BUILDING, WALL, OR FIXED SITE IMPROVEMENT. DIMENSION TO CENTER LINE WHERE NOTED, AND FROM THE CENTER OF CIRCULAR OBJECTS AS NOTED FOR THE RADIAL DESIGN FEATURES.
- PROVIDE EXPANSION JOINTS WHERE CONCRETE FLATWORK MEETS VERTICAL STRUCTURES SUCH AS WALLS, CURBS, STEPS, BUILDING ELEMENTS, AND EXISTING HARDSCAPES.
- EXPANSION JOINTS IN CONCRETE WALKWAYS SHALL BE LOCATED TWENTY FEET ON CENTER MAXIMUM.

GRADING & EARTHWORK

- THE CONTRACTOR IS TO REVIEW, UNDERSTAND, AND ADHERE TO SPOT ELEVATIONS AND CONTOURS AS INDICATED ON THE GRADING PLAN UNLESS SPECIFICALLY AUTHORIZED BY THE OR LANDSCAPE ARCHITECT. CONTRACTOR SHALL VERIFY THAT ALL MINIMUM AND MAXIMUM SLOPES IDENTIFIED ON THE PLANS ARE ACHIEVABLE IN THE FIELD PRIOR TO THE START OF WORK.
- SPOT ELEVATIONS AND GRADES TO GUIDE CONSTRUCTION EFFORTS, BUT CONTRACTOR IS RESPONSIBLE FOR ENSURING THE SITE WILL PROPERLY DRAIN WITHOUT AREAS OF PONDING ON HARDSCAPE AREAS, AND THAT HARDSCAPE GRADES DO NOT EXCEED DEFINED TOLERANCES.
- ALL HARDSCAPE AREAS SHALL BE GRADED TO ACHIEVE POSITIVE DRAINAGE. MAXIMUM ALLOWED FINAL GRADES FOR LONGITUDINAL SLOPE ON WALKS AND PAVED AREAS SHALL BE 5% UNLESS OTHERWISE NOTED ON THE PLANS. ALL FINAL GRADES FOR WALKS SHALL HAVE A MINIMUM 1.5% CROSS SLOPE AND MAXIMUM 2.5% CROSS SLOPE. THESE CRITERIA SHALL OVERRIDE LABELED SPOT ELEVATIONS THAT DO NOT MEET THE HARDSCAPE GRADING CRITERIA.
- EXCAVATION INCLUDES ALL MATERIALS ENCOUNTERED TO WHATEVER DEPTH INDICATED ON THE PLANS. EXCAVATE TO ALLOW FOR PROPER FILL MATERIAL, SLABS, VOIDS, FORMS AND FOUNDATIONS.
- ANY VEGETATED AREA WITH A SLOPE GREATER THAN 3(H):1(V), OR DRAINAGE AREA THAT RECEIVES CONCENTRATED STORMWATER FLOWS, TO BE STABILIZED WITH BIODEGRADABLE EROSION CONTROL BLANKET (C-125 BN, SC-150 BN, OR APPROVED ALTERNATIVE)
- CONTRACTOR SHALL ENSURE THEIR FINISHED GRADES ARE WITHIN 1/8" OF A FOOT WHEN WORK IS COMPLETE.
- TOPSOIL IS TO BE STRIPPED AND STOCKPILED ON SITE FOR REUSE ONLY IN AREAS WHERE EXCAVATION IS REQUIRED. TOPSOIL SHALL ONLY BE PLACED WITHIN THE TOP 12" OF PROPOSED FINISHED GRADES. EXTRA TOPSOIL NOT NEEDED FOR THIS PROJECT SHALL BE REMOVED AND DISPOSED OF AT AN APPROPRIATE FACILITY OFF SITE.
- EXCAVATED SUBSOIL (SOIL FOUND BELOW 10" OF THE EXISTING GRADES) TO BE STOCKPILED ON-SITE FOR REUSE, OR DISPOSAL AS NEEDED. SUBSOIL SHALL ONLY BE PLACED BELOW 12" WITHIN THE PROPOSED FINISHED GRADES. THIS RESTRICTION DOES NOT APPLY WHEN PLACED UNDER HARDSCAPE AREAS.
- ADDITIONAL TOPSOIL FILL REQUIRED SHALL BE A FERTILE, FRIABLE NATURAL TOPSOIL OF LOAM CHARACTER CONTAINING AT LEAST 5% BUT NOT MORE THAN 20% BY WEIGHT OF ORGANIC MATTER WITH A PH RANGE FROM 6.0 TO 7.0. TOPSOIL SHALL BE FREE OF CLAY LUMPS, COARSE SAND, STONES, PLANT ROOTS, STICKS OR OTHER FOREIGN MATTER.
- TO THE GREATEST EXTENT POSSIBLE LIMIT THE COMPACTION OF PROPOSED LANDSCAPE AREAS BY LIMITING THE ACCESS OF HEAVY EQUIPMENT TO THESE AREAS. LANDSCAPE AREAS

- THAT BECOME COMPACTED DUE TO CONSTRUCTION ACTIVITIES SHALL BE LOOSENEED BY ROTOTILLING, DISCING, OR OTHER ACCEPTABLE PRACTICE TO A DEPTH OF 10". THE LOOSENEED SOIL SHALL THEN BE LIGHTLY COMPACTED TO AN ACCEPTABLE DENSITY FOR PLANTING.
- SOIL CONTAMINATED WITH INVASIVE SPECIES SEEDS IS TO BE REMOVED FROM THE SITE AT THE TIME OF EXCAVATION AND DISPOSED OF AT AN APPROPRIATE FACILITY OFF-SITE. THIS MATERIAL CANNOT BE STOCKPILED ON SITE FOR ANY LENGTH OF TIME AND MUST BE KEPT FROM MIXING WITH OTHER SOIL ON SITE. EQUIPMENT SHOULD BE THOROUGHLY CLEANED AFTER EXCAVATION IN THESE AREAS PRIOR TO EXCAVATION WORK IN OTHER LOCATIONS ON SITE.

HARDSCAPES

- CONTRACTOR TO LAYOUT HARDSCAPE ELEMENTS AND VERIFY LAYOUT WITH LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL INSTALL SLEEVING FOR IRRIGATION AND ELECTRICAL CONNECTIONS PRIOR TO INSTALLING HARDSCAPE AREAS TO BE APPROVED BY THE LANDSCAPE ARCHITECT.
- CONTRACTOR SHALL COORDINATE AND BE RESPONSIBLE FOR ALL SUB-GRADE COMPACTION AND MATERIAL PREPARATION UNDER PAVED AREAS. REFER TO PLANS, DETAILS, OR SPECIFICATIONS WHICH IDENTIFY COMPACTION REQUIREMENTS. COORDINATE ALL COMPACTION AND SUB-GRADE PREPARATION WITH OTHER SITE CONTRACTORS AND LANDSCAPE ARCHITECT.
- CONCRETE
 - CONTRACTOR SHALL COORDINATE A FORM INSPECTION WITH THE LANDSCAPE ARCHITECT NO LESS THAN 24 HOURS PRIOR TO PLACEMENT OF ANY SURFACING.
 - LOCATE ALL JOINTS, SURFACING, AND PAVING PATTERNS AS CLOSELY AS POSSIBLE TO THE PLANS. LANDSCAPE ARCHITECT AND OWNER TO CONFIRM LAYOUTS AND PROPOSED SCORING PATTERN PRIOR TO THE WORK BEING PERFORMED.
 - CONTRACTOR SHALL PROVIDE ALL PROTECTION AND FACILITIES NECESSARY TO INSURE PROPER CURING AND FINISHING OF PAVING.
 - MINIMUM CONCRETE STRENGTH TO BE 3500 PSI MIN.
 - ALL CONCRETE WORK AND PAVEMENT SHALL CONFORM TO THE LATEST RECOMMENDATIONS OF ACI.
 - FIELD AND SHOP TESTING OF CONCRETE WORK SHALL INCLUDE INSPECTION OF REINFORCEMENTS AND CONCRETE STRENGTH TESTS, SLUMP AND AIR CONTENT TESTS. TESTS TO BE COORDINATED BY THE CONTRACTOR AND APPROVED WITH LANDSCAPE ARCHITECT OR ENGINEER PRIOR TO POURING FRESH CONCRETE.
- REFER TO THE DRAWINGS FOR PAVING DETAILS AND SPECIFICATIONS.
- PAVING WITHIN 8' OF EXISTING OR PROPOSED TREES TO HAVE 24" ROOT BARRIER INSTALLED NEXT TO HARDSCAPE SURFACE. ROOT BARRIER TO BE BURIED 1" TO HIDE THIS FEATURE.

LANDSCAPING

- LANDSCAPE ARCHITECT TO COORDINATE THE PURCHASE AND DELIVERY OF ALL PLANT MATERIAL.
- CONTRACTOR TO BE RESPONSIBLE FOR INSTALLING LARGE WOODY PLANT MATERIAL (TREES AND SHRUBS) AS DIRECTED BY THE LANDSCAPE ARCHITECT. LANDSCAPE ARCHITECT TO COORDINATE THE INSTALLATION OF ALL PERENNIAL VEGETATION.
- LANDSCAPE ARCHITECT TO STAKE LOCATIONS OF WOODY PLANT MATERIAL PRIOR TO INSTALLATION.
- ALL PLANTS THAT THAT WILL NOT BE PLANTED THE SAME DAY AS DELIVERY SHALL BE "HEELED IN" WITH SHREDDED BARK OR MOIST SOIL AND KEPT MOIST UNTIL PLANTED.
- THE TRUNKS AND BRANCHES OF ALL TREES AND SHRUBS SHALL BE PROTECTED FROM INJURY OF ANY KIND DURING ALL OPERATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR PLANING MATERIALS PLUMB. SET THE TOP OF THE ROOT BALL, OR CROWN OF THE PLANT, AT OR SLIGHTLY HIGHER THAN THE SURROUNDING GRADE. PLANTS SHALL BE FACED TO GIVE THE BEST APPEARANCE OR RELATIONSHIP TO ADJACENT STRUCTURES. NO FILLING WILL BE PERMITTED AROUND TRUNKS OR STEMS. WHEN THE PLANT HAS BEEN PROPERLY SET, THE HOLE SHALL BE BACKFILLED TO 1/2 THE DEPTH OF THE BALL WITH TOPSOIL, FIRMLY PACKED, AND WATERED-IN AT TIME OF PLANTING. LOOSEN AND REMOVE BURLAP AND LACING FROM UPPER 1/3 OF ROOT BALL AND BACKFILL TOPSOIL FLUSH WITH THE SURROUNDING GROUND.
- PRUNE NEWLY PLANTED TREES AND SHRUBS ONLY AS DIRECTED BY CLIENT.
- WATER BAGS SHALL BE USED ACCORDING TO THE PROJECT INSTRUCTIONS TO KEEP TREES AND SHRUBS WATERED FOR THE FIRST GROWING SEASON.
- FINISHED GRADES OF PLANTING AREAS SHALL BE 2" BELOW ADJACENT PAVING OR TOP OF WALL TO ACCOMMODATE 2" OF MULCH.

UTILITIES

- CONTRACTOR TO COORDINATE THE PLACEMENT AND IMPLEMENTATION OF ALL WATER, ELECTRIC, AND OTHER UTILITIES NEEDED ON THIS PROJECT. CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO STARTING WORK TO DETERMINE WHERE CONNECTIONS AND ACCOMMODATIONS FOR UTILITIES SHOULD BE INSTALLED.
- CONTRACTOR TO PROTECT EXISTING UTILITIES AND COORDINATE WITH CLIENT AS TO THEIR CONDITION IN DETERMINING IF THEY SHOULD BE PRESERVED OR REPLACED.

SITE FURNISHINGS

- CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL SITE ELEMENTS ARE COMPLIANT WITH ALL LOCAL CODES AND ORDINANCES, AND ARE OF SOUND CONSTRUCTION QUALITY.
- SITE FURNISHINGS TO BE INSTALLED ACCORDING TO MANUFACTURER SPECIFICATIONS.



PO Box 140021, Grand Rapids, MI 49514
 p (616) 717-0656 e info@natedgeco.com

LANDSCAPE AREA IMPROVEMENTS
 KENT DISTRICT LIBRARY -
 CASCADE TOWNSHIP BRANCH

PREPARED FOR:

Kent District Library
 2870 Jacksmith Ave SE
 Grand Rapids, MI 49546

#	DATE	ISSUE / REVISION
1	3/21/23	50% Construction Docs
2	9/6/23	95% Construction Docs

SEAL

DATE: 9/6/23

PROJECT No.: NE22701.01

ISSUE / REVISION: 2

SCALE: 1"=10'

SHEET TITLE

NOTES

SHEET

G2

SHEET No. 2 OF 36

LANDSCAPE AREA IMPROVEMENTS
KENT DISTRICT LIBRARY -
CASCADE TOWNSHIP BRANCH

PREPARED FOR:

Kent District Library
 2870 Jacksmith Ave SE
 Grand Rapids, MI 49546

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SEAL

DATE: 9/6/23

PROJECT No.: NE22701.01

ISSUE / REVISION: 2

SCALE: 1"=40'

SHEET TITLE

EXISTING CONDITIONS

SHEET

C1

SHEET No. 3 OF 36

EXISTING FEATURES LEGEND

- MAJOR CONTOUR
- MINOR CONTOUR
- - - PROPERTY BOUNDARY
- ASPHALT
- CONCRETE
- TREE

PROPERTY DESCRIPTION:

PPN# 41-19-16-102-027
 2870 Jacksmith Ave SE
 Owner: Cascade Township
 5920 Tahoe Dr SE
 Cascade, MI 49546

TAX DESCRIPTION(S):

PART OF ARDEN HILLS PLAT & PART OF NW 1/4 OF SEC 16 T6N R10W DESC AS - COM AT NE COR OF LOT 7 OF ARDEN HILLS PLAT TH S TO SE COR OF SD LOT TH S ALONG E LINE OF SD LOT 7 EXT S TO A PT 895 FT S FROM N SEC LINE TH W PAR WITH N SEC LINE TO A PT 415.34 FT E FROM E LINE OF THORNHILLS AVE /100 FT WIDE/ TH N 204.0 FT TH 90D 00M 00S E 260.26 FT TH NELY 146.30 FT ALONG A 93.0 FT RAD CURVE TO LT /LONG CHORD BEARS N 44D 56M 00S E 131.67 FT/ TH N 0D 08M 00S W 53.79 FT TH NWLY 235.53 FT ALONG A 343.0 FT RAD CURVE TO LT /LONG CHORD BEARS N 19D 48M 18S W 230.93 FT/ TH NWLY 176.65 FT ALONG A 257.0 FT RAD CURVE TO RT /LONG CHORD BEARS N 19D 47M 08S W 173.19 FT/ TH N 0D 05M 40S W 100.02 FT TO A PT 57.30 FT N 89D 52M 40S E ALONG N LINE OF SD PLAT FROM A PT WHICH IS 1516.69 FT 90D 00M 00S W & 63.86 S 0D 05M 40S E FROM N 1/4 COR TH E ALONG N PLAT LINE TO BEG *

AND PART OF NW 1/4 COM 400.0 FT S 0D 45M E ALONG EXT E LINE OF LOT 1 ARDEN HILLS PLAT & 311.04 FT N 89D 48M 24S W FROM SE COR OF ARDEN HILLS PLAT TH S 89D 48M 24S E 311.04 FT TH S 0D 45M E PAR WITH N&S 1/4 LINE 15.5 FT TO A PT 627.0 FT S FROM N SEC LINE & 631.0 FT W FROM N&S 1/4 LINE TH 90D 00M W PAR WITH N SEC LINE 29.0 FT TH S 0D 45M E PAR WITH N&S 1/4 LINE 268.0 FT TO A PT 895.0 FT S FROM N SEC LINE TH 90D 00M W PAR WITH N SEC LINE 524.38 FT TO A PT ON EXT E LINE OF LOT 7 OF ARDEN HILLS PLAT WHICH IS 895.0 FT S FROM N SEC LINE TH N 0D 08M W ALONG SD EXT LOT LINE TO SE COR OF LOT 7 OF ARDEN HILLS PLAT TH S 89D 47M 35S E ALONG S LINE OF SD PLAT 66.0 FT TH S 0D 08M 00S E 400.05 FT TH S 89D 48M 24S E 174.12 FT TO BEG *

AND PART OF NW 1/4 COM 400.0 FT S 0D 45M 00S E ALONG EXT E LINE OF LOT 1 OF ARDEN HILLS PLAT & 311.04 FT N 89D 48M 24S W FROM SE COR OF SD PLAT TH N 89D 48M 24S W 174.12 FT TO A LINE WHICH IS 66 FT E FROM /MEAS PERP TO/ & PAR WITH E LINE OF LOT 7 OF SD PLAT & SD E LINE EXT SLY TH N 0D 08M 00S W ALONG SD LINE 400.05 FT TO A PT 6.0 FT S 89D 47M 35S E ALONG S LINE OF LOT 6 OF SD PLAT FROM SW COR OF SD LOT TH S 89D 47M 35S E ALONG S LINE OF SD PLAT 177.85 FT TO SW COR OF LOT 4 OF SD PLAT TH S 0D 24M 05S W ALONG W LINE OF SD LOT 4 EXT 400.0 FT TO BEG *

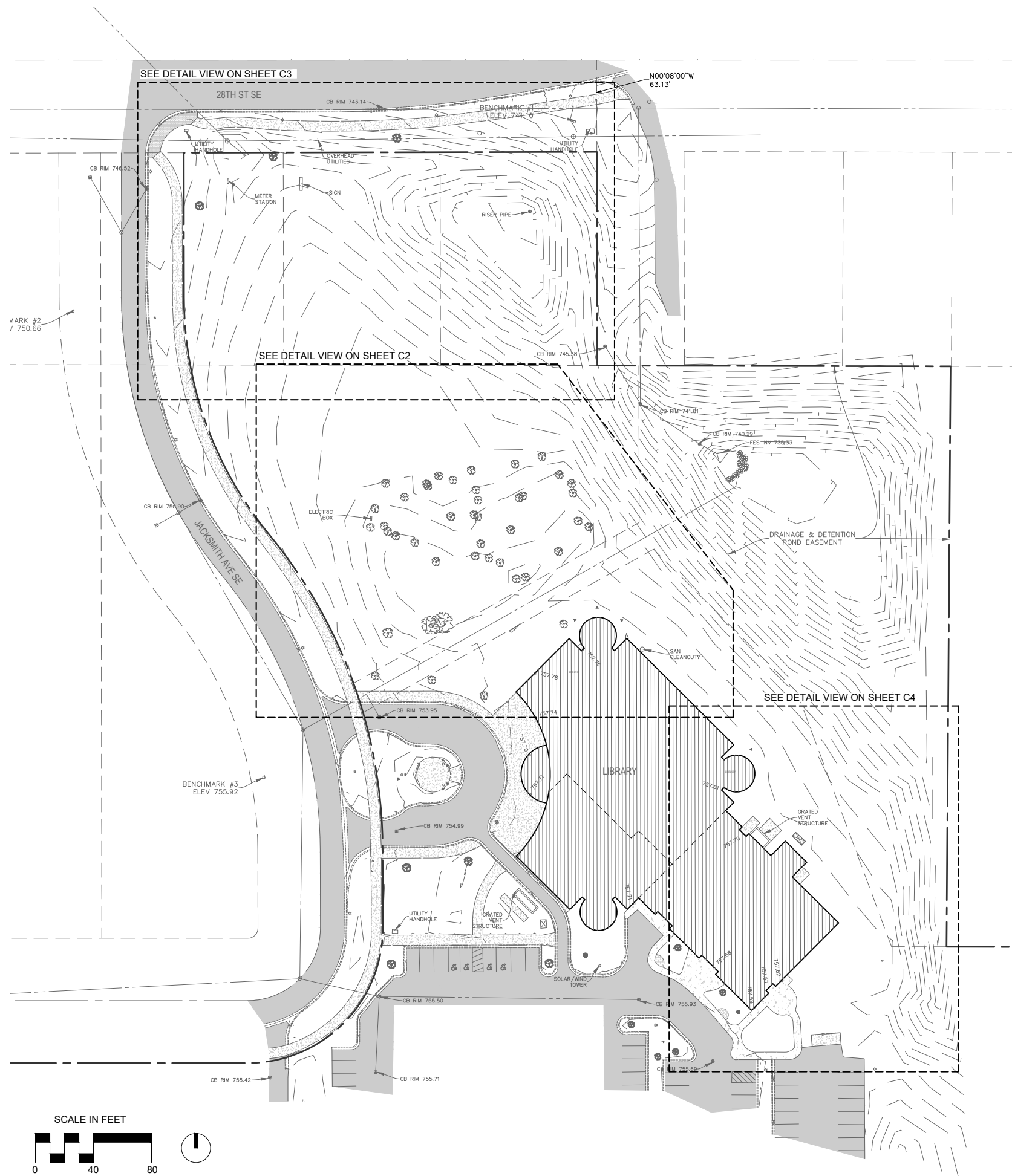
Contains 13,274 SF or 0.30 Acres

BENCHMARKS:

BENCHMARK 1: Hydrant Flange of hydrant on the South side of 28th Street, 26 feet Northwest of the Northeast corner of Lot 27, Arden Hills.
 Elev: 741.10

BENCHMARK 2: Hydrant Flange of hydrant on West side of Jacksmith Ave, 109 feet South of the North line of the Arden Hills Plat.
 Elev: 750.66

BENCHMARK 3: Hydrant flange of hydrant on West side of Jacksmith Ave, 430 feet South of the North line of the Arden Hills Plat.
 Elev: 755.92



LANDSCAPE AREA IMPROVEMENTS
KENT DISTRICT LIBRARY -
CASCADE TOWNSHIP BRANCH

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Kent District Library
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SEAL

DATE: 9/6/23

PROJECT No.: NE22701.01

ISSUE / REVISION: 2

SCALE: 1"=12'

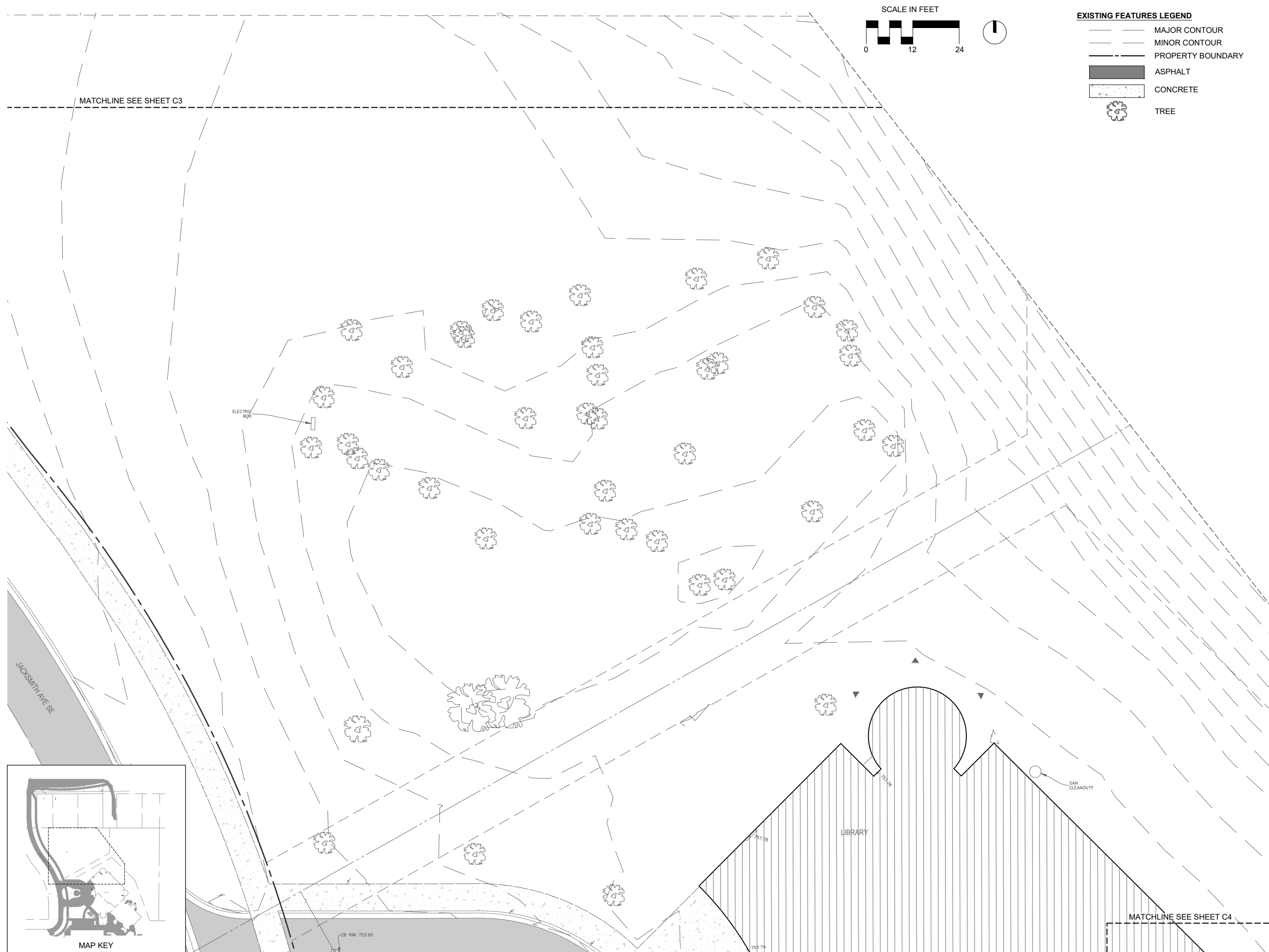
SHEET TITLE

EX. COND. DET. VIEW 1

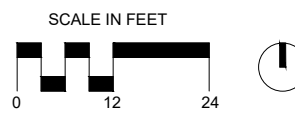
SHEET

C2

SHEET No. 4 OF 36



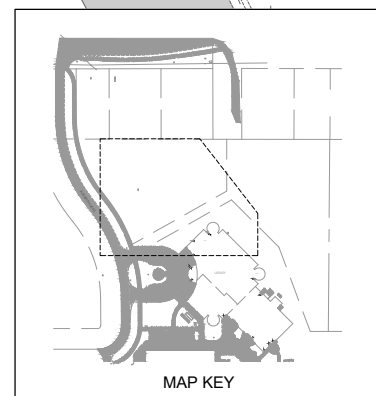
MATCHLINE SEE SHEET C3



EXISTING FEATURES LEGEND

	MAJOR CONTOUR
	MINOR CONTOUR
	PROPERTY BOUNDARY
	ASPHALT
	CONCRETE
	TREE

JACKSMITH AVE SE



MATCHLINE SEE SHEET C4

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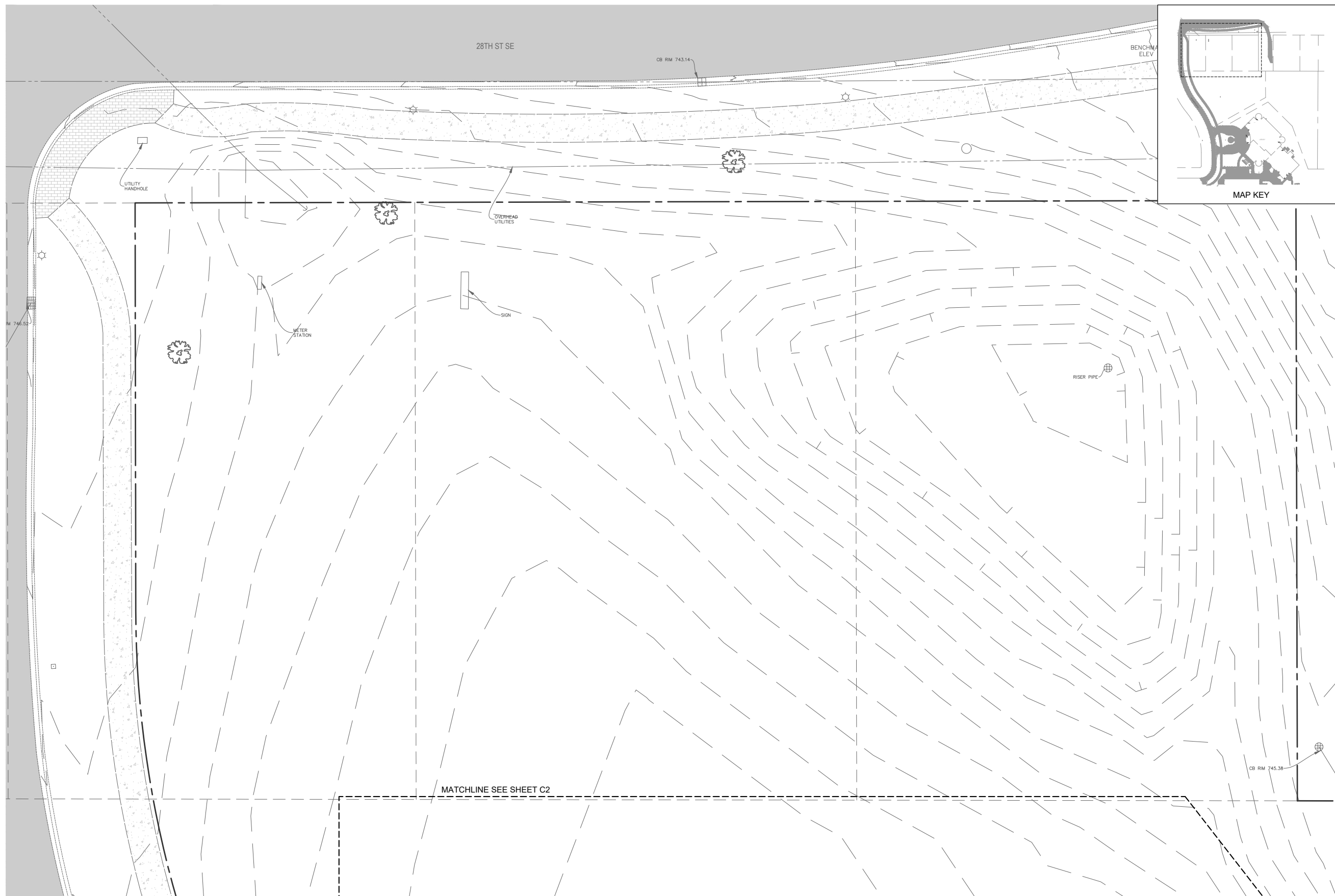
SHEET TITLE

EX. COND. DET. VIEW 2

SHEET

C3

SHEET No. 5 OF 36

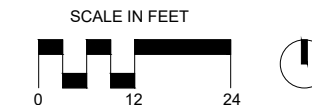


EXISTING FEATURES LEGEND

- MAJOR CONTOUR
- MINOR CONTOUR
- - - PROPERTY BOUNDARY
- ASPHALT
- ▨ CONCRETE



TREE



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SCALE: 1"=40'

SHEET TITLE


SESC, STAGING, DEMO

SHEET


C5


SHEET No. 7 OF 36


SESC, STAGING, DEMO KEY


- 

1 **CONTRACTOR STAGING AREA.** SOUTH EAST PARKING LOT AREA, ADJACENT TO SITE ACCESS LOCATION. CONTRACTOR TO MINIMIZE DAMAGE TO EXISTING PARKING AREA TO THE GREATEST EXTENT POSSIBLE AND PROVIDE CLIENT WITH PROTECTION PLAN FOR EXISTING PARKING AREA. CONTRACTOR SHALL MAINTAIN ACCESS TO DUMPSTERS ON TRASH PICKUP DAYS.
- 


2 **SITE ACCESS.** THE PRIMARY ACCESS ROUTE TO THE PROJECT AREA IS ADJACENT TO THE STAGING AREA. PROTECT EXISTING CURBS WITH GRAVEL. ACCESS ROUTE SHALL BE AROUND THE NORTHEAST SIDE OF THE LIBRARY ALONG SILT FENCE PLACEMENT LOCATION, PROVIDING ACCESS TO ALL PROJECT AREAS. PLACE A 25' GRAVEL DRIVE (MINIMUM) AT BEGINNING OF SITE ACCESS ROAD ADJACENT TO STAGING AREA. SEE DETAIL 4 ON SHEET C6.
- 

3 **CLEARING AND GRUBBING AREA.** ALL HERBACEOUS AND SHRUBBY VEGETATION TO BE REMOVED FROM THE CLEARING AND GRUBBING AREA. GREAT CARE IS TO BE TAKEN NOT TO CONTAMINATE OTHER PROJECT AREAS WITH SOIL FROM THIS LOCATION. SEE NOTES ON SHEET G2 FOR DETAILED INSTRUCTIONS REGARDING THE CLEARING AND GRUBBING IN THIS AREA.
- 

4 **SILT FENCE.** PLACE SILT FENCE IN LOCATIONS WHERE RUNOFF MAY OCCUR ADJACENT TO CONSTRUCTION WORK AREAS. SEE DETAIL 1 ON SHEET C6.
- 

5 **TREE PROTECTION FENCE.** PLACE TREE PROTECTION FENCE AT THE DRIP LINE OF TREES OR AS FAR FROM THE TRUNK AS POSSIBLE TO ACCOMMODATE WORK ACTIVITIES. TREE PROTECTION FENCING MAY BE REMOVED TO PROVIDE ACCESS FOR SELECT CONSTRUCTION ACTIVITIES, AND MUST BE IMMEDIATELY REPLACED WHEN SELECT ACTIVITIES ARE COMPLETE TO PROTECT TREE ROOTS FROM COMPACTION. SEE DETAIL 3 ON SHEET C6.
- 

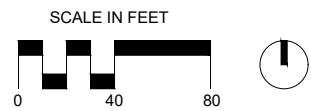
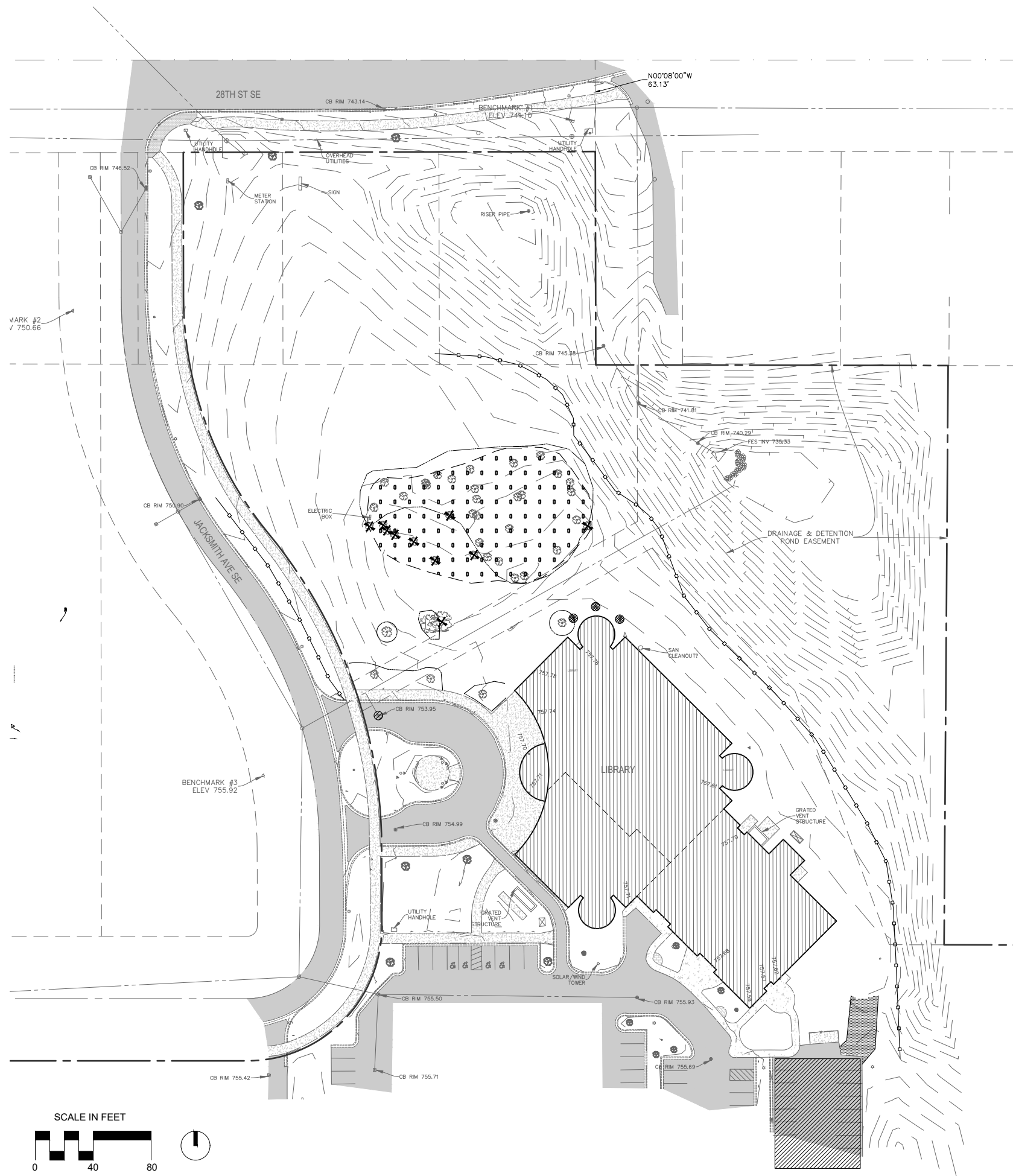
6 **LARGE TREE REMOVAL.** THESE LOCATIONS INDICATE WHERE LARGE TREES WILL BE REMOVED. THESE TREES WILL BE MARKED IN THE FIELD AND CONFIRMED WITH THE CONTRACTOR PRIOR TO REMOVAL.
- 

7 **STORM DRAIN PROTECTION.** PROTECT STORM DRAIN FROM SEDIMENTATION WITH A CATCH BASIN FILTER. SEE DETAIL 2 ON SHEET C6
- 

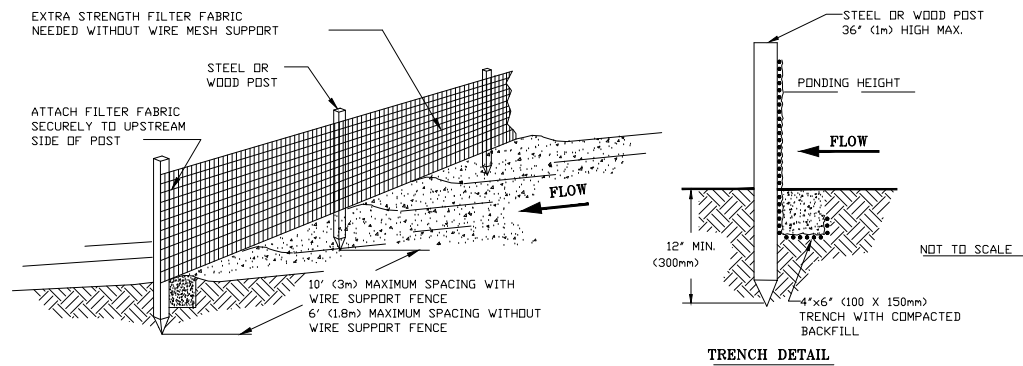
8 **ACCENT LIGHTING REMOVAL.** REMOVE ACCENT LIGHTING ADJACENT TO BUILDING. SAFELY PROTECT AND MARK WIRING AND REUSE IF POSSIBLE IN CONJUNCTION WITH NEW LANDSCAPE LIGHTING.

SESC, STAGING, AND DEMO NOTES:

- 1) REFER TO NOTES ON SHEET G2.

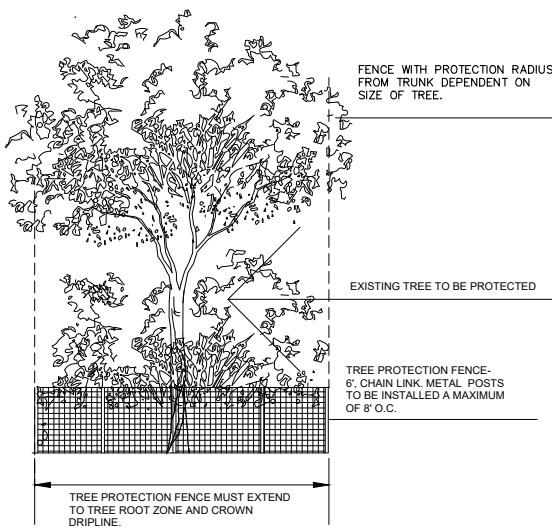


LANDSCAPE AREA IMPROVEMENTS
KENT DISTRICT LIBRARY -
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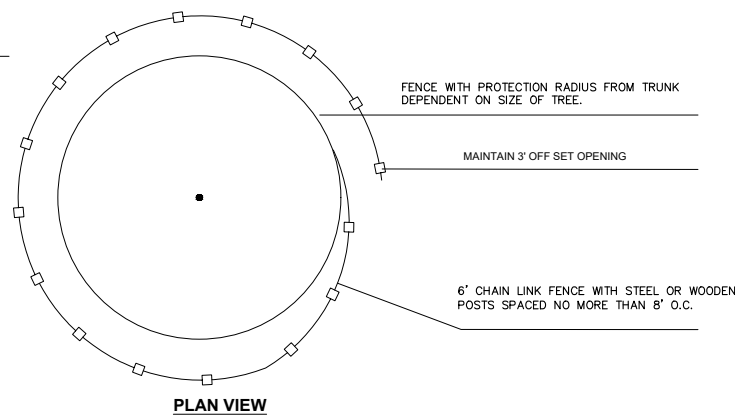


NOTES:
 1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
 2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" (225mm) MAXIMUM RECOMMENDED STORAGE HEIGHT.
 3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

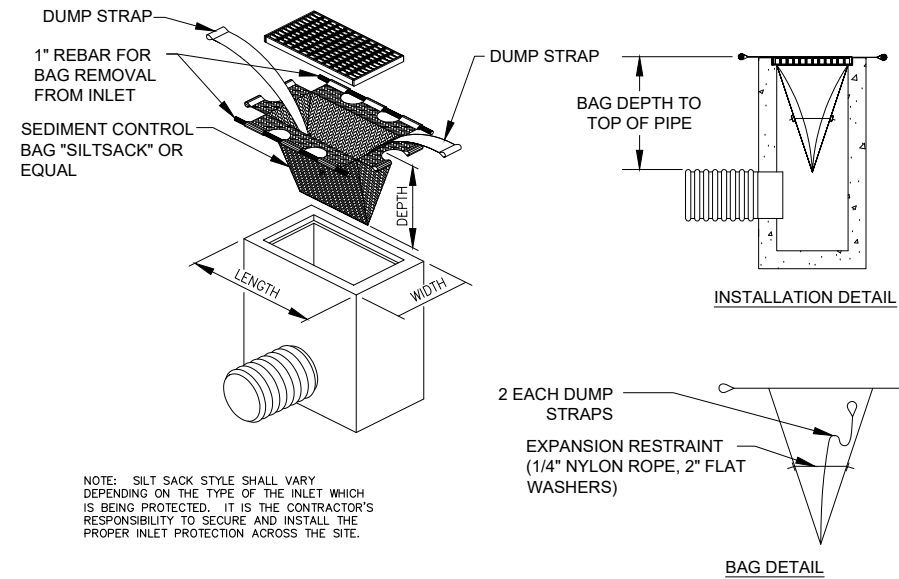
C6
01 SILT FENCE DETAIL
 NOT TO SCALE



NOTES:
 1. IF SITE CONDITIONS PREVENT PROPER FENCE INSTALLATION, APPROVE FENCING WITH LANDSCAPE ARCHITECT.
 2. NO CONSTRUCTION, STAGING, TRAFFIC OR OTHER ACTIVITIES WITHIN THE TREE PROTECTION AREA.
 3. PROTECTIVE TREE FENCING MUST REMAIN INTACT FOR THE ENTIRE DURATION OF THE CONSTRUCTION PROJECT AND MAY NOT BE MOVED OR REMOVED FOR ANY REASON WITHOUT APPROVAL FROM LANDSCAPE ARCHITECT.

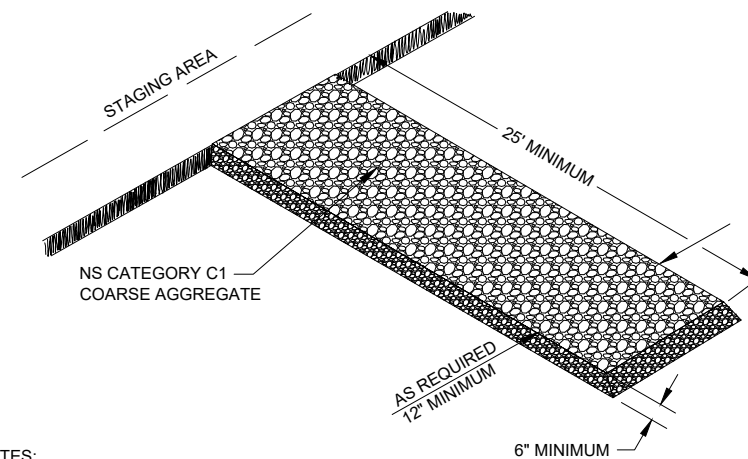


C6
03 TREE PROTECTION DETAIL
 NOT TO SCALE



NOTE: SILT SACK STYLE SHALL VARY DEPENDING ON THE TYPE OF THE INLET WHICH IS BEING PROTECTED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE AND INSTALL THE PROPER INLET PROTECTION ACROSS THE SITE.

C6
02 SILT SACK DETAIL
 NOT TO SCALE



NOTES:
 1. TO COMPLY WITH MDOT STANDARDS.

C4
04 GRAVEL CONSTRUCTION ENTRANCE
 NOT TO SCALE

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SCALE: 1"=12'

SHEET TITLE

SESC, STAGING, DEMO DETAILS

SHEET

C6

SHEET No. 8 OF 36

LANDSCAPE AREA IMPROVEMENTS
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SHEET TITLE

SITE LAYOUT

SHEET

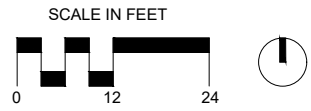
C7

SHEET No. 9 OF 36

SITE LAYOUT NOTES

1. See sheets C8-C10 for detailed site layout information.





SITE LAYOUT NOTES

1. Use dimensional information given, do not scale drawings.
2. The contractor shall verify dimension shown on the drawings and notify the landscape architect of any discrepancies prior to the start of construction.
3. Contractor to stake site and review with landscape architect prior to construction.
4. Minor modifications to site layout are acceptable with written or verbal approval by landscape architect.

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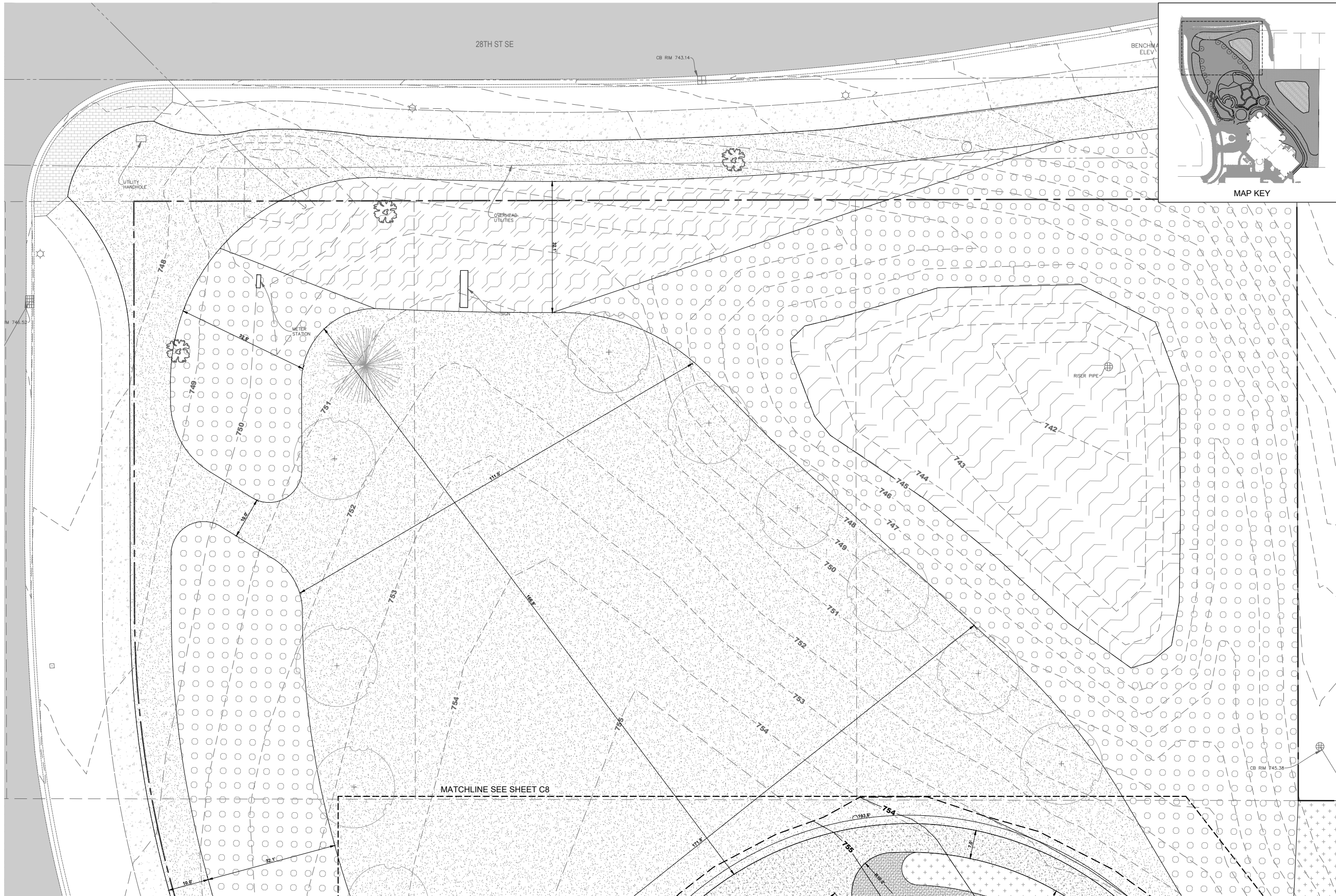
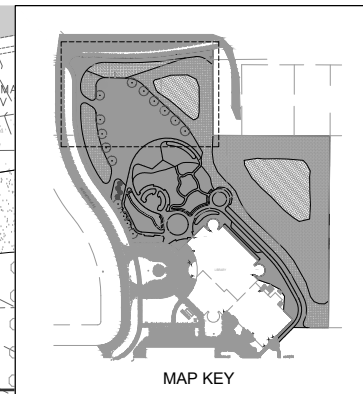
SHEET TITLE

SITE LAYOUT DET. VIEW 1

SHEET

C8

SHEET No. 10 OF 36



LANDSCAPE AREA IMPROVEMENTS
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SHEET TITLE

SITE LAYOUT DET. VIEW 2

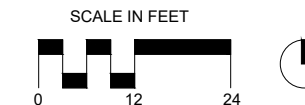
SHEET

C9

SHEET No. 11 OF 36

SITE LAYOUT NOTES

1. Use dimensional information given, do not scale drawings.
2. The contractor shall verify dimension shown on the drawings and notify the landscape architect of any discrepancies prior to the start of construction.
3. Contractor to stake site and review with landscape architect prior to construction.
4. Minor modifications to site layout are acceptable with written or verbal approval by landscape architect.





SITE LAYOUT NOTES

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PO Box 140021, Grand Rapids, MI 49514
 p (616) 717-0656 e info@nativeedge.com

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SHEET TITLE

SITE LAYOUT DET. VIEW 3

SHEET
C10

SHEET No. 12 OF 36