

18681 Lake Drive East Chanhassen, MN 55317 952-607-6512 www.rpbcwd.org

Riley Purgatory Bluff Creek Watershed District Permit Application Review

Permit No: 2024-049

Considered at Board of Managers Meeting: October 14, 2024

Received complete: October 14, 2024

Applicant: RidgeCrest Eden Prairie II LLC, Trent Mayberry

Consultant: Kimley-Horn, Matt Lingam

Project: 11609 Leona Road Redevelopment— the applicant proposes to reduce the size of the existing

building, develop a new one-story building, with associated parking revisions, utilities, and stormwater management facilities. The stormwater management system includes an

underground treatment system, two rainwater harvest and reuse systems, two

manufactured treatment devices, along with modifications to the existing onsite stormwater facility, all to provide runoff volume abstraction, water quality treatment, and rate control.

Location: 11609 Leona Road, Eden Prairie, Minnesota

Reviewer: Scott Sobiech, PE, Barr Engineering

Proposed Board Actio	<u>n</u>	
resolutions based on t		seconded adoption of the following ne presentation of the matter at the
• •	ication for Permit 2024-049 is appromendations section of the attached	oved, subject to the conditions and stipulations report;
permit have been affir	•	rator that the conditions of approval of the sident or administrator is authorized and ant, on behalf of RPBCWD.
Upon vote, the resolut	cions were adopted, [VOTE 7	rally].

Applicable Rule Conformance Summary

Rule	Issue		Conforms to RBPCWD Rules?	Comments
В	Floodplain Management and Drainage Alterations		Yes	
С	Erosion Control Plan		See comment	See rule-specific permit condition C1 related to identifying erosion prevention on the erosion control plan.
J	Stormwater	Rate	Yes	
	Management Volume Water Quality		Yes	
			Yes	
		Low Floor Elev.	Yes	

Rule	Issue		Conforms to RBPCWD Rules?	Comments
		Maintenance	See comment	See rule-specific permit condition J1 related to recordation of stormwater facilities maintenance declaration.
		Chloride Management	See comment	See stipulation #3 related to providing an executed chloride management plan prior to permit close-out.
		Wetland Protection	Yes	
L	Permit Fee Deposit		Yes	\$3,000 deposit fee received August 22, 2024. The applicant must replenish the permit fee deposit to the original amount due before the permit will be issued. As of November 27, 2024, the amount due is \$5,842.
M	Financial Assurance		See Comment	The financial assurance is calculated at \$712,220

Background

The redevelopment is located on a 3.44 acre site at the southeast corner of Leona Road and Flying Cloud Drive in Eden Prairie. The proposed redevelopment of the site will include a new one-story, approximately 2,447-square foot building with a drive through, patio, and associated utility, landscape, and parking improvements. The applicant also proposes demolition of a portion of the existing retail building and develop an approximately 18,500-square foot building with associated utility, landscape, and parking improvements. The stormwater management system includes an underground treatment system, rainwater harvest and reuse systems, two manufactured treatment devices, along with modifications to the existing onsite stormwater facility, all to provide runoff volume abstraction, water quality treatment, and rate control.

While there are no on-site or adjacent Wetland Conservation Act (WCA) protected wetlands for which wetland buffers would be required, the treated runoff leaving western portion of the site is conveyed via storm sewer directly to an off-site high-value protected wetland.

The project site information is summarized in the following table.

Project site information

Site Information	Project Area
Total Site Area (acres)	3.5
Existing Site Impervious Area (acres)	2.55
Post Construction Site Impervious (acres)	2.49
Decrease in Site Impervious Area (acres)	0.06
Percent decrease in Impervious Surface	-1.9%
Disturbed Site Impervious Area (acres)	1.48
Percent Disturbance of Existing Impervious Surface	58%
Regulated impervious area (acres)	2.49
Total Disturbed Area (acres)	2.22

Exhibits:

- 1. Permit application dated June 28, 2024 (Notified applicant on July 5, 2024 and August 22, 2024 that submittal was incomplete, revised materials completing the application received October 14, 2024)
- 2. Stormwater Management Plan dated June 23, 2024 (revised August 20, 2024, October 14, 2024, November 4, 2024, and November 18, 2024)
- 3. Geotechnical Evaluation Report dated June 28, 2024
- 4. Project Plans (11 sheets) dated May 20, 2024 (revised August 19, 2024 (30 sheets), October 14, 2024 (36 sheets), November 4, 2024, and November 18, 2024)
- 5. Existing and Proposed electronic HydroCAD Model received August 20, 2024 (revised October 14, 2024)
- 6. Existing and Proposed MIDS Model results report received August 20, 2024 (revised October 14, 2024, November 4, 2024, and November 18, 2024)
- 7. P8 model received November 4, 2024 (revised November 18, 2024)
- 8. Review Responses dated August 19, 2024
- 9. Review Responses dated October 28, 2024
- 10. Review Responses dated November 18, 2024
- 11. Engineer's Estimate of Probable Construction Cost spreadsheet received October 14, 2024 (revised November 4, 2024)

Rule Specific Permit Conditions

Rule B: Floodplain Management and Drainage Alterations

Because the proposed redevelopment project involves land-disturbing activity below the 100-year flood elevation (893.44 ft) of an existing stormwater detention facility on the site to reconfigure the facility for use as part of the proposed reuse system, the project activities must conform to the RPBCWD's Floodplain Management and Drainage Alterations rule (Rule B).

Because the applicant proposes a new structure and modification to an existing structure, the project must conform with low floor elevation requirements set forth by Rule B, Subsection 3.1 which references the low floor criteria in Rule J, subsection 3.6. All new and reconstructed buildings must be constructed such that the lowest floor is at least two feet above the 100-year high-water elevation or one foot above the natural overflow of a waterbody according to Rule J, Subsection 3.6a. In addition, a stormwater-management facility must be constructed at an elevation that ensures that no adjacent habitable building will be brought into noncompliance with this requirement according to Rule J, Subsection 3.6b. Low floor requirements were evaluated for the proposed structure, modified existing structure, and off-site structure adjacent to the stormwater facilities. As shown in the table below, the provided freeboard is greater than the minimum required, thus complying with Rule B, Subsection 3.1.

Structure	Low Floor Elevation of Building (ft)	Stormwater Facility	100-year Event Flood Elevation of Stormwater Facility (ft)	Freeboard to 100-year Event (ft)
New Structure	896.85	Modified Detention Facility	893.31	3.54
Modified Structure	897.62	Proposed Underground System	892.48	5.14
Offsite Building	897.7	Modified Detention Facility	893.31	4.39

Placement of fill below the 100-year flood elevation is prohibited unless fully compensatory flood storage is provided within the same floodplain and at or below the same elevation for fill in the floodplain of a water basin (Rule B, Subsection 3.2b). The supporting materials summarized in the following table demonstrate, and the RPBCWD Engineer concurs, that an aggregate floodplain storage in the modified detention facility is more than in the existing facility, thus providing a net increase in the floodplain storage below elevation 893.44 feet.

Stormwater Facility	100-Year Elevation Existing Storage (Feet) (CF)		Proposed Feature Providing Compensatory Storage	Proposed Storage (CF)	
Existing Detention Facility	893.44	34,807	Modified Detention Basin	34,929	

Because modification to the exiting stormwater detention basins could alter the timing and duration of flows leaving the site, the applicant must demonstrate that the alterations will not have an adverse offsite impact and will not adversely affect flood risk, basin or channel stability, groundwater hydrology, stream baseflow, water quality, or aquatic or riparian habitat (Rule B subsection 3.3). The RPBCWD engineer concurs with the applicant's use of Board of Water and Soil Resources' Recommended Wetland Management Standards: Minnesota Routine Assessment Method for Evaluating Wetland Functions, Version 3.0 to demonstrate the change in hydrology will not adversely impact the downstream wetlands. These are the same criteria listed in Table J1 of the stormwater rule for wetland protection. Because the applicant's HydroCAD model results demonstrate, and the engineer concurs, that the proposed flow rate and volumes flowing towards the off-site wetland are less than the under existing conditions, the bounce and inundation will not increase. In addition, MIDS modeling results show the proposed stormwater management on the site provides 94% TSS and 75% TP removals, thus the engineer finds the applicant has demonstrated the project will not adversely impact the downstream wetlands.

The applicant also provided pre- and post-project water quality modeling to demonstrate no adverse impact to water quality. The modeling results show the total suspended solids and total phosphorus load leaving the site after the development will be less than the existing load leaving the site (see Water Quality section of the Rule J analysis). In addition, the applicant's modeling indicates the peak discharge rates leaving the site are less under proposed conditions than for existing conditions. These also support the engineer's determination that the project is not reasonably likely to adversely affect flood risk, basin or channel stability, or stream baseflow, thus meeting the requirements of Rule B, subsection 3.3.

Because no watercourses exist on the site, Rule B, Subsection 3.4 does not impose requirements on the project. See Rule C analysis of the applicant's submitted erosion control plan to demonstrate conformance with Rule B, Subsection 3.5.

The proposed project conforms to RPBCWD Rule B requirements.

Rule C: Erosion Prevention and Sediment Control

Because the applicant proposes to alter of 2.22 acres of land-surface area and vegetation, the project must conform to the erosion prevention and sediment control requirements established in Rule C.

The erosion control plan prepared by Landform Professional Services includes installation of perimeter control (silt fence or sediment control logs), a stabilized rock construction entrance, inlet protection, weekly inspection, staging areas, placement of a minimum of 6 inches of topsoil (at 5% organic matter), and decompaction of areas compacted during construction. To conform to RPBCWD Rule C requirements, the following revisions are needed:

C1. The Applicant must provide the name and contact information of the individual responsible for erosion control at the site. RPBCWD must be notified if the responsible individual changes during the permit term.

Rule J: Stormwater Management

Because the applicant proposes to disturb 2.22 acres of land-surface area, the project must meet the criteria of RPBCWD's Stormwater Management rule (Rule J, Subsection 2.1). The criteria listed in Subsection 3.1 will apply to the entire project site because the site activity will disturb more than 50 percent of the existing impervious surface on the parcel (Rule J, Subsection 2.3).

The applicant is proposing an underground treatment system, rainwater harvest and reuse systems, two manufactured treatment devices, along with modifications to the existing onsite stormwater facility to provide runoff volume abstraction, water quality treatment, and rate control.

Rate Control

To meet the rate control criteria listed in Subsection 3.1.a, the 2-, 10-, and 100-year post development peak runoff rates must be equal to or less than the existing discharge rates at all locations where stormwater leaves the site. The applicant used a HydroCAD hydrologic model to simulate runoff rates for existing and post-development conditions for the 2-, 10-, and 100-year frequency storm events using a nested rainfall distribution, and a 100-year frequency, 10-day snowmelt event. The existing and proposed 2-, 10-, and 100-year frequency discharges from the site are summarized in the table below. The proposed stormwater management plan will provide rate control in compliance with the RPBCWD requirements for the 2-, 10-, and 100-year events. Thus, the proposed project meets the rate control requirements in Rule J, Subsection 3.1a.

Modeled Discharge Location	2-Year Discharge (cfs)		10-Year Discharge (cfs)		100-Year Discharge (cfs)		10-Day Snowmelt (cfs)	
	Ex	Prop	Ex	Prop	Ex	Prop	Ex	Prop
Flying Cloud Drive – Pipe	1.9	1.6	2.1	2.1	13.8	7.6	1.3	1.0
Flying Cloud – Overland	0.2	0.2	0.3	0.3	0.7	0.7	<0.1	<0.1
Leona Road	0.4	0.4	0.7	0.7	1.3	1.3	<0.1	<0.1
Den Road – Pipe	4.2	4.0	6.5	6.2	11.5	10.4	0.4	0.4
Den Road – Overland	0.5	0.5	1.0	1.0	1.9	1.9	0.1	0.1

Volume Abstraction

Subsection 3.1.b of Rule J requires the abstraction onsite of 1.1 inches of runoff from the impervious surface of the parcel. An abstraction volume of 9,942 cubic feet is required from the proposed 2.49 acres of regulated impervious area.

Soil borings performed by Braun Intertec show that soils in the project area are predominately clayey soils, including those under the proposed underground system. In addition, hand auger borings collected near the existing stormwater facility indicate groundwater is only 1-foot below the existing ground surface. Because the engineer concurs that the soil boring information and groundwater near the surface support that the abstraction standard in subsection 3.1b of Rule J cannot practicably be met, the site is considered restricted and stormwater runoff volume must be managed in accordance with subsection 3.3 of Rule J.

For restricted sites, subsection 3.3 of Rule J requires rate control in accordance with subsection 3.1.a and that abstraction and water quality protection be provided in accordance with the following sequence:

- (a) Abstraction of 0.55 inches of runoff from site impervious surface determined in accordance with paragraphs 2.3, 3.1 or 3.2, as applicable, and treatment of all runoff to the standard in paragraph 3.1c; or
- (b) Abstraction of runoff onsite to the maximum extent practicable and treatment of all runoff to the standard in paragraph 3.1c; or
- (c) Off-site abstraction and treatment in the watershed to the standards in paragraph 3.1b and 3.1c.

The applicant is proposing rainwater harvesting and irrigation of available green space to provide volume abstraction. The abstraction volume provided by the two proposed irrigation systems is 1,057 cubic feet, thus demonstrating the project is providing abstraction to the maximum extent practicable according to Rule J, Subsection 3.3.b. The designed abstraction performance for the project site is summarized in the table below.

Volume Abstraction Summary

Required	Required	Provided	Provided
Abstraction Depth	Abstraction Volume	Abstraction Depth	Abstraction Volume
(inches)	(cubic feet)	(inches)	(cubic feet)
0.55	4,971	0.13	1,178

Because the proposed stormwater reuse systems require consistent use at a specified rate (1.11 in/week) over the 0.68 acres of green space to meet District requirements, performance monitoring for the site will be required to ensure that the project provides the proposed volume abstraction.

Water Quality Management

Subsection 3.1.c of Rule J requires the Applicant to provide volume abstraction in accordance with 3.1b or least 60 percent annual removal efficiency for total phosphorus (TP), and at least 90 percent annual removal efficiency for total suspended solids (TSS) from site runoff, and no net increase in TSS or TP loading leaving the site from existing conditions. MIDS water quality models were developed to estimate the TP and TSS loading from the subwatersheds and the removal capacity of the proposed BMPs. The results of this modeling are summarized in the following tables. The results show the proposed project will remove sufficient TSS and TP to achieve an overall pollutant reduction in accordance with the required annual removals (Rule J, Subsection 3.2c).

Annual TSS and TP removal summary

Downstream Resource	Pollutant of Interest	Regulated Site Loading (lbs/yr)	Required Load Removal (lbs/yr)	Provided Load Reduction (lbs/yr)
Off-site, High	Total Suspended Solids (TSS)	604	543 (90%)	567 (94%)
Value Wetland	Total Phosphorus (TP)	3.3	1.98 (60%)	2.48 (75%)
NW Anderson	Total Suspended Solids (TSS)	281	253 (90%)	255 (91%)
Lake	Total Phosphorus (TP)	1.55	0.93 (60%)	0.94 (61%)

Summary of net change in TSS and TP leaving the site

Resource	Pollutant of Loading (lbs/yr)		Proposed Site Load after Treatment (lbs/yr)	Change (lbs/yr)
Elving Cloud Drive	Total Suspended Solids (TSS)	239	37	-202
Flying Cloud Drive	Total Phosphorus (TP)	2.2	0.82	-1.38
Don Dood	Total Suspended Solids (TSS)	281	26	-255
Den Road	Total Phosphorus (TP)	1.55	0.61	-0.94

Low floor Elevation

All new buildings must be constructed such that the lowest floor is at least two feet above the 100-year high-water elevation or one foot above the emergency overflow of a stormwater-management facility according to Rule J, Subsection 3.6a. Stormwater management facilities must be constructed at an elevation and location that ensure no habitable structure will be brought into noncompliance with the low floor criteria according to Rule J, subsection 3.6b. Low floor requirements were evaluated for the proposed structure (QRS), modified existing structure (Retail), and off-site structure adjacent stormwater facilities. The results demonstrate the provided freeboard is greater than the minimum required, thus complying with Rule B, Subsection 3.6.

Structure	Low Floor Elevation of Building (ft)	Stormwater Facility	100-year Event Flood Elevation of Stormwater Facility (ft)	Freeboard to 100-year Event (ft)
New	896.85	Modified Detention Facility	893.31	3.54
Structure				
Modified	897.62	Proposed Underground System	892.48	5.14
Structure				
Offsite	897.7	Modified Detention Facility	893.31	4.39
Building				

Maintenance

Subsection 3.7 of Rule J requires the submission of maintenance plan. All stormwater management structures and facilities must be designed for maintenance access and properly maintained in perpetuity to assure that they continue to function as designed. The following revisions are needed:

J1. Permit applicant must submit a draft maintenance and inspection declaration to incorporate the facilities proposed under this application, including the appropriate permit number, pre-treatment facilities, reuse systems, underground stormwater management facility, manufactured treatment devices (stormfilter with Phosphosorb cartridges), and the modified existing stormwater facility. Stormwater reuse rates and protection of greenspace to be irrigated must be included. A maintenance declaration template is available on the permits page of the RPBCWD website.

(http://www.rpbcwd.org/permits/). A draft declaration must be provided for District review and approval prior to recording.

Chloride Management

Subsection 3.8 of Rule J requires the submission of chloride management plan that designates the individual authorized to implement the chloride management plan and the MPCA-certified salt applicator engaged in implementing the plan. To close out the permit and release the \$5,000 in financial assurance held for the purpose of chloride management, the permit applicant must provide a chloride management plan that designates the individual authorized to implement the chloride management plan and the MPCA-certified salt applicator engaged in implementing the plan at the site.

Wetland Protection

Because runoff from the redeveloped site is tributary to a downstream, high-value wetland, the project must comply with RPBCWD's wetland protection criteria in Rule J, subsection 3.10. In accordance with Rule J, subsection 3.10a, the proposed land-disturbing activities will not increase the bounce in water level, duration of inundation, or change the runout elevation in the subwatershed, for the receiving wetland. Because the applicant's HydroCAD model results demonstrate, and the engineer concurs, that the proposed flow rate and volumes flowing towards the off-site wetland are less than the under existing conditions, the bounce and inundation will not increase, thus the project meets the Bounce and Inundation criterion.

Rule J, Subsection 3.10b requires that treatment of runoff to high value wetlands achieve 90 percent total suspended solids removal and 75 percent total phosphorus removal. MIDS modeling results show the proposed underground infiltration system provides 94% TSS and 75% TP removals, thus the engineer finds that the proposed project is in conformance with Rule J, Subsection 3.10b.

Rule L: Permit Fee

The RPBCWD permit fee schedule adopted in February 2020 requires permit applicants to deposit \$3,000 to be held in escrow and applied to cover the \$10 permit-processing fee and reimburse RPBCWD for permit review and inspection-related costs and when a permit application is approved, the deposit must be replenished to the applicable deposit amount by the applicant before the permit will be issued to cover actual costs incurred to monitor compliance with permit conditions and the RPBCWD Rules. A permit fee deposit of \$3,000 was received on August 22, 2024. The applicant must replenish the permit fee deposit to the original amount due before the permit will be issued. Subsequently, if the costs of review, administration, inspections and closeout-related or other regulatory activities exceed the fee deposit amount, the applicant will be required to replenish the deposit to the original amount or such lesser amount as the RPBCWD administrator deems sufficient within 30 days of receiving notice that such deposit is due. The administrator will close out the relevant application or permit and revoke prior approvals, if any, if the permit-fee deposit is not timely replenished.

L1. The applicant must replenish the permit fee deposit to the original amount due before the permit will be issued. As of November 27, 2024 the amount due is \$5,842.

Rule M: Financial Assurance

	Unit	Unit Cost	# of Units	Total
Rules C: Silt fence:	LF	\$2.50	1,504	\$3,760
Inlet protection	EA	\$100	10	\$1,000
Rock Entrance	EA	\$250	2	\$500
Restoration	Ac	\$2,500	2.22	\$5,550
Rules J: Chloride Management	LS	\$5,000	1	\$5,000
Rules J: Stormwater Management: 125% of engineer's opinion of cost (\$505,530*1.25)	EA	125% OPC	1	\$631,913
Contingency (10%)		10%		\$64,747
Total Financial Assurance				\$712,220

Applicable General Requirements:

- 1. The RPBCWD Administrator and Engineer shall be notified at least three days prior to commencement of work.
- 2. Construction must be consistent with the plans, specifications, and models that were submitted by the applicant that were the basis of permit approval. The date(s) of the approved plans, specifications, and modeling are listed on the permit. The grant of the permit does not in any way relieve the permittee, its engineer, or other professional consultants of responsibility for the permitted work.
- 3. The grant of the permit will not relieve the permittee of any responsibility to obtain approval of any other regulatory body with authority.
- 4. The issuance of this permit will not convey any rights to either real or personal property, or any exclusive privileges, nor will it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.
- 5. In all cases where the doing by the permittee of anything authorized by this permit involves the taking, using or damaging of any property, rights or interests of any other person or persons, or of any publicly owned lands or improvements or interests, the permittee, before proceeding therewith, must acquire all necessary property rights and interest.
- 6. RPBCWD's determination to approve the permit application was made in reliance on the information provided by the applicant. Any substantive change in the work affecting the nature and extent of applicability of RPBCWD regulatory requirements or substantive changes in the methods or means of compliance with RPBCWD regulatory requirements must be the subject of an application for a permit modification to the RPBCWD.
- 7. If the conditions herein are met and the permit is issued by RPBCWD, the applicant, by accepting the permit, grants access to the site of the work at all reasonable times during and after construction to authorized representatives of the RPBCWD for inspection of the work.

Findings

- The proposed project includes the information necessary, plan sheets and erosion control plan for review.
- 2. The proposed project conforms to Rule B and will conform to rules C and J if the Rule Specific Permit Conditions listed above are met.

Recommendation:

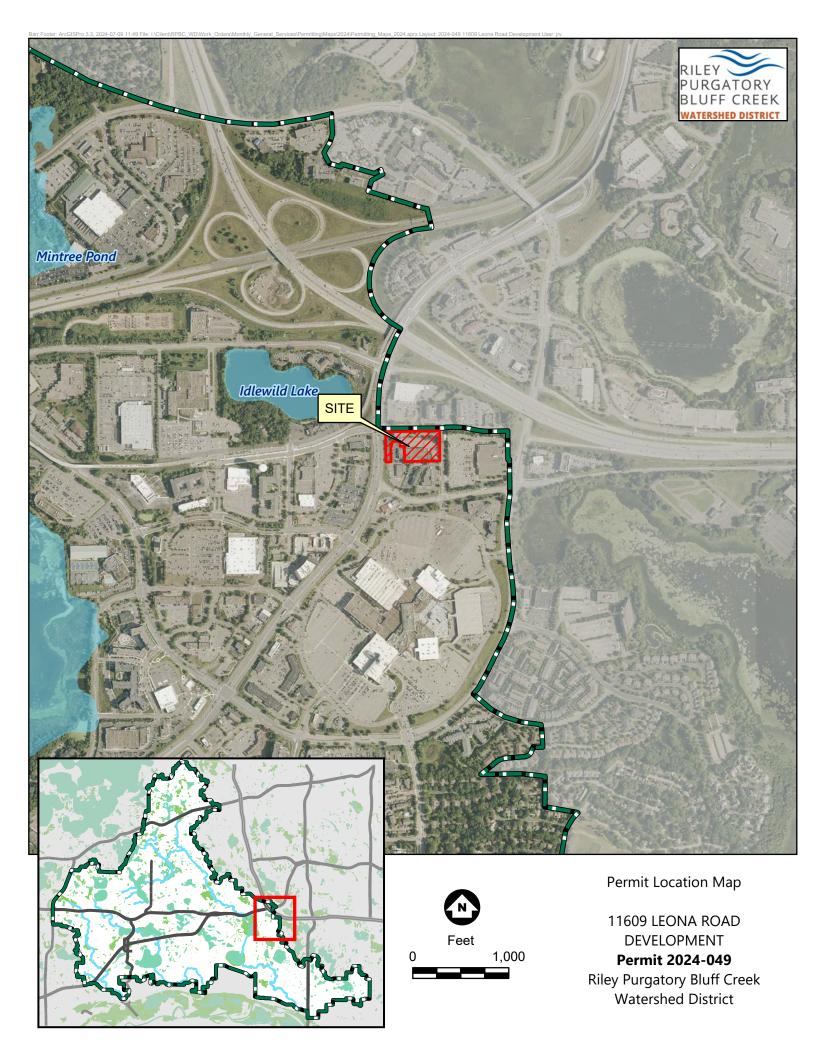
Approval of the permit contingent upon:

- 1. Financial Assurance in the amount of \$712,220.
- Permit applicant must provide the name and contact information of the general contractor responsible for the site. RPBCWD must be notified if the responsible party changes during the permit term.
- 3. Permit applicant must submit a draft maintenance and inspection declaration to incorporate the facilities proposed under this application, including the appropriate permit number, pre-treatment facilities, two rainwater harvest and reuse systems, two Stormfilter manufactured treatment devices with phosphosorb cartridges, and modifying two existing stormwater facilities. The agreement must also include a stormwater reuse monitoring and reporting plan that includes protection of the greenspace to be irrigated and metering of the volume of reuse, as well as maintenance specifics provided by the manufacturer(s) or installer(s) for the proprietary system and be consistent with the MPCA's manufactured treatment device maintenance provisions in the MN Stormwater Manual. The draft agreement must be reviewed and approved by RPBCWD prior to execution as a condition of issuance of the permit.
- 4. The applicant must replenish the permit fee deposit to the original amount due before the permit will be issued. The amount needed to replenish the permit fee deposit is \$5,842 as of November 27, 2024.

By accepting the permit, when issued, the applicant agrees to the following stipulations:

- 1. Continued compliance with General Requirements.
- 2. Per Rule J Subsection 4.5, upon completion of the site work, the permittee must submit as-built drawings demonstrating that at the time of final stabilization the stormwater management facilities conforms to design specifications and functions as intended and approved by the District. Asbuilt/record drawings must be signed by a professional engineer licensed in Minnesota and include, but not limited to:
 - a) the surveyed bottom elevations, water levels, and general topography of all facilities;
 - b) the size, type, and surveyed invert elevations of all stormwater facility inlets and outlets;
 - c) the surveyed elevations of all emergency overflows including stormwater facility, street, and other;
 - d) other important features to show that the project was constructed as approved by the Managers and protects the public health, welfare, and safety.

3.	To close out the permit and release the \$5,000 in financial assurance held for the purpose of the chloride management, the permit applicant must provide an executed chloride management plan that designates the individual authorized to implement the chloride management plan and the MPCA-certified salt applicator engaged in implementing the plan at the site.



FLYING CLOUD DR & LEONA RD

11609 LEONA RD AND S14 T116N R22W **EDEN PRAIRIE, HENNEPIN COUNTY, MN**

PROJECT TEAM:

ENGINEER & LANDSCAPE ARCHITECT KIMLEY-HORN AND ASSOCIATES, INC.



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ARCHITECT ARCHITECTURAL CONSORTIUM 1600 W LAKE STREET. STE 127 MINNEAPOLIS, MN 55408 TELEPHONE: 612-314-4372 CONTACT: CHRIS MUELLER

OWNER / DEVELOPER TOLD DEVELOPMENT CO.



200 SOUTHDALE CENTER EDINA, MN 55435 TELEPHONE: (952) 278-0112 CONTACT: TRENT MAYBERRY

SURVEYOR EVS, INC. 10025 VALLEY VIEW ROAD, SUITE 140 EDEN PRAIRIE, MN 55344 TELEPHONE: 952-646-0236 CONTACT: SCOTT ALWIN



VICINITY N.T.S.



SITE

NOTES:

- CONTRACTOR SHALL CONFIRM THAT THE EXISTING CONDITIONS FOR THE SITE MATCH WHAT IS SHOWN ON THE DRAWINGS INCLUDED PRIOR TO CONSTRUCTION.
- IF REPRODUCED. THE SCALES SHOWN ON THESE PLANS ARE BASED ON A 22x34 SHEET. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICES COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.
 ALL GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES,
 AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS.

Sheet List Table		
Sheet Number	Sheet Title	
C000	COVER SHEET	
C100	GENERAL NOTES	
C200	SITE DEMOLITION PLAN	
C201	TREE INVENTORY & PRESERVATION PLAN	
C300	EROSION AND SEDIMENT CONTROL PLAN - PHASE 1	
C301	EROSION AND SEDIMENT CONTROL PLAN - PHASE 2	
C302	EROSION AND SEDIMENT CONTROL DETAILS	
C303	SWPPP NOTES	
C400	OVERALL SITE PLAN	
C401	ENLARGED SITE PLAN	
C402	ENLARGED SITE PLAN	
C403	SITE DETAILS	
C404	SITE DETAILS	
C405	STARBUCKS DETAILS	
C406	STARBUCKS DETAILS	
C407	STARBUCKS DETAILS	
C408	STARBUCKS DETAILS	
C409	STARBUCKS DETAILS	
C500	GRADING PLAN	
C501	ENLARGED GRADING PLAN	
C502	ENLARGED GRADING PLAN	
C503	STORM SEWER PLAN	
C504	GRADING AND STORM SEWER DETAILS	
C505	GRADING AND STORM SEWER DETAILS	
C506	GRADING AND STORM SEWER DETAILS	
C507	GRADING AND STORM SEWER DETAILS	
C600	UTILITY PLAN	
C601	ENLARGED UTILITY PLAN	
C602	ENLARGED UTILITY PLAN	
C603	UTILITY DETAILS	
C700	CONSTRUCTION PHASING PLAN - PHASE 1	
C701	CONSTRUCTION PHASING PLAN - PHASE 2	
L100	OVERALL LANDSCAPE PLAN	
L101	ENLARGED LANDSCAPE PLAN	
L102	ENLARGED LANDSCAPE PLAN	
L103	LANDSCAPE DETAILS	

BENCHMARKS

SITE BENCHMARKS: (LOCATIONS SHOWN ON SURVEY)

SBM #1 MNDOT MONUMENT "2785 CW". ELEVATION=881.75

Know what's below. Call before you dig. Kimley≫Horn

COVER SHEET

TOLD
DEVELOPMENT CO.

- NOT FOR CONSTRUCTION

- THE CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN A COPY OF THE LATEST EDITION OF THE AND BECOME FAMILIAR WITH THE CONTENTS PRIOR TO COMMENCING WORK, UNLESS OTH ALL WORK SHALL CONFORM AS APPLICABLE TO THESE STANDARDS AND SPECIFICATIONS.
- PERFORM ALL WORK IN COMPLIANCE WITH APPLICABLE CITY REGULATIONS. STATE CODES. AND O.S.H.A. TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS, AND IN ACCORDANCE WITH THE SPECIFICATIONS AND REQUIREMENTS OF THE APPROPRIATE APPROVING
- THE EXISTING SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS QUALITY LEVEL "D" UNLESS OTHERWISE NOTED THIS QUALITY LERGEL WAS DETERMINED ACCORDING TO THE QUIDELINES OF CAUSES WAS ENTITLED STRAMPAG QUIEDLINES FOR THE COLLECTION AND DEPITION OF SUBSURFACE QUALITY DATA BY THE FIRM. EMBRISH OF THE COLLECTION AND DEPITION OF SUBSURFACE QUALITY DATA BY THE PIRAL EMBRISH OF THE CHARGEST AT THE TIME OF THE TOPOGRAPHOR SURVEY AND HAVE NOT EAST MEMBRISHED THE EMBRISHED THE THE MADE OF THE TOPOGRAPHOR SURVEY AND HAVE DOTT EAST MEMBRISHED THE MADE OF THE SUBSURFACE QUALITY DATA CHARGES THE MADE OF THE SUBSURFACE AND THE SUBSUR ACCURATE FROMING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTORS THE CONTRACTORS FOR THE CONTRACTOR OF THE CONTRACTOR SHALL BE FIXED FROM THE CONTRACTOR SHALL BE FIXED FROM THE CONTRACTORS FALLINE TO EXACITY LOCATE AND PRESERVE ANY AND ALL LIMBORISON DID TO THE CONTRACTORS FALLINE TO EXACITY LOCATE AND PRESERVE ANY AND ALL LIMBORISON TO THE CONTRACTORS FALLINE TO EXACITY LOCATE AND PRESERVE ANY AND ALL LIMBORISON OF THE CONTRACTOR SHALL BE CONTRACTOR TO ACCURATE THE CONTRACTOR OF THE CONTRACTO THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK
- IT IS THE CONTRACTOR'S DESCONSIBILITY TO CONTACT THE VARIOUS LITH ITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED. CONSTRUCTION PERMITS AND BONDS IF REQUIRED PRIOR TO CONSTRUCTION
- THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, GEOTECHNICAL REPORT AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.
- ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT. TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER.
- ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST. RESULTS ARE TO BE SENT TO THE OWNER DIRECTLY FROM THE TESTING AGENCY.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES OR AT THE COMPETION OF A PROPERTIES CONSTRUCTION INTERVIALS AND SHALL BE RESPONSIBLE FOR PROVIDING A SHILL TO PRIVINGS TO THE OWNER FOR THE PLEPOSE OF CERTIFICATION TO JURISDICTIONAL AGENCIES AS REQUIRED. ALL AS BUILT DATA SHALL BE COLLECTED BY A STATE PROFESSIONAL LIAMO SURFEYOR WHOSE SERVICES ANE ENGAGED BY THE CONTRACTOR
- 12. ANY WELLS DISCOVERED ON SITE THAT WILL HAVE NO USE MUST BE PLUGGED BY A LICENSED WELL DRILLING CONTRACTOR IN A MANNER APPROVED BY ALL JURISDICTIONAL AGENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR DETAINING ANY WELL ABANDOMINENT PERMITS REQUIRED.
- 13. ANY WELL DISCOVERED DURING EARTH MOVING OR EXCAVATION SHALL BE REPORTED TO THE APPROPRIATE JURISDICTIONAL AGENCIES WITHIN 24 HOURS AFTER DISCOVERY IS MADE
- 14. THE CONTRACTOR SHALL BE DESCONSIBLE FOR VERTEVING THAT THE DRODOSED IMPROVEMENTS SHOWN THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY NOWN WE SISTING OR OTHER PROPOSED MERCHEMENTS. IN ANY COMPLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE STEE WORK THAT WOULD BE AFFECTED. FAILURE TO NOTIFY OWNER OF AN IDENTIFIABLE CONFLICT PROR TO PROCEEDING WITH INSTALLATION RELEVES OWNER OF ANY OBLIGATIONS OF THE AREA OF THE OWNER OWNER
- 15. SHOULD CONTRACTOR ENCOUNTER ANY DEBRIS LADEN SOIL. STRUCTURES NOT IDENTIFIED IN THE DOCUMENTS, OR OTHER SOURCE OF POTENTIAL CONTAMIN THE ENGINEER AND OWNER.
- 16 CONTRACTOR SHALL NOTIFY OWNER AND/OR ENGINEER 48 HOURS IN ADVANCE OF CONTRACTOR SHALL NOTIFY OWNER ANDOR ENGINEER 48 HOURS IN ADVANCE OF THE FOLLOWING ACTIVITIES PRECONSTRUCTION INSETING, SUBGROUPD PREPARATION, BASE INSTALLATION, ASPAIL INSTALLATION, UNDERGROUND PIPING AND UTILITIES INSTALLATION, INSTALLATION OF STRUCTURES CHECK VALVES, HYDRANTS, METERS, ETC., SIDEWALK INSTALLATION, CONNECTIONS TO WATER AND SEWER MAINS, TESTS OF UTILITIES.

THIRD PARTY SUPPLEMENTAL INFORMATION

KIMLEY-HORN ASSUMES NO LIABILITY FOR ANY ERRORS, INACCURACIES, OR OMISSIONS CONTAINED WITHIN SUPPLEMENTAL INFORMATION PROVIDED BY THIRD PARTY CONSULTANTS

BOUNDARY & TOPOGRAPHIC SURVEY ADDRESS: 10025 VALLEY VIEW ROAD, SUITE 140 EDEN PRAIRIE, MN 55344

PHONE: 952-646-0236 DATED: 01/11/2022 2. GEOTECHNICAL EVALUATION REPORT

CONSTRUCTION TESTING
TEST DEDORTS REQUIRED FOR CLOSE OUT INCLUDE, BUT ARE NOT LIMITED TO: EST REPORTS REQUIRED FOR CLOSE OUT INCLUDE, BUT ARE NOT
DENSITY TEST REPORTS
BACTERIOLOGICAL TESTS OF WATER SYSTEM
PRESSURE TEST OF WATERSEWER

LEAK TESTS ON SEWER SYSTEM AND GREASE TRAPS
ANY OTHER TESTING REQUIRED BY THE AGENCYMUNICIPALITY

EROSION CONTROL NOTES

- THE STORM WATER POLLUTION PREVENTION PLAN ("SWPPP") IS COMPRISED OF THE EROSION CONTROL PLAN, THE STANDARD DETAILS. THE PLAN NARRATIVE, ATTACHMENTS INCLUDED IN THE SPECIFICATIONS TANDARD DETAILS, THE PLAN NARRATIVE, ATTACHMENTS INCLUDED IN THE SPEC PP, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
- ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE NATIONAL POLLUTIANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (MPDES PERMIT) AND BECOME FAMILY. WITH THEIR CONTENTS.
- BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL STATE. OF
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPLYING WITH THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION, AND SHALL MAINTAIN COMPLIANCE WITH APPLICABLE LAWS AND REQUILATIONS FOR THE DURATION OF CONSTRUCTION.
- THE CONTRACTOR SHALL FIELD ADJUST ANDIOR PROVIDE ADDITIONAL EROSION CONTROL BMPS AS NEEDED TO PREVENT EROSION AND OFF-SITE SEDIMENT DISCHARGE FROM THE CONSTRUCTION SITE LOG AND RECORD ANY ADJUSTMENTS AND EDVATIONS FROM THE APPROVED EROSION CONTROL PLANS WITHIN THE SWPPP DOCUMENTS STORED IN THE JOB SITE TRAILER.
- BMPS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION AS REQUIRED BY ALL JURISDICTIONS UNTEL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINE STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A CERTIFIED PERSON AT LEAST ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 0.5-INCH OR GREATER RAINFALL EVENT.
- EROSION & SEDIMENT CONTROL BMPS SHALL BE MAINTAINED IN ACCORDANCE WITH THE FOLLOWING:
- 7.1 INLET DOCTECTION DEVICES AND RADDIEDS SHALL BE DEDAIDED OF DEDLACED IS THEY SHOW SIGNS
- 7.2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO VERIFY THAT A HEALTHY STAND OF VEGETATION IS MAINTAINED. SEEDED AREAS SHOULD BE FERTILIZED, WATERED AND RE-SEEDED AS NEEDED. REFER TO THE LANDSCAPE PLAN AND PROJECT SPECIFICATIONS.
- SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED, SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-THIRD THE HEIGHT OF THE SILT FENCE.
- THE ROCK CONSTRUCTION ENTRANCE(S) SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-MAY. THIS MAY REQUIRE PERIODIC ADDITIONS OF ROCK TOP DEESSING AS CONDITIONS DEMAND.
- THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITA PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC ADDITIONS OF TOP DRESSING IF TH TEMPORARY PARKING CONDITIONS DEMAND.
- PERFORM ALL MAINTENANCE OPERATIONS IN A TIMELY MANNER BUT IN NO CASE LATER THAN 2
 CALENDAR DAYS FOLLOWING THE INSPECTION.

PAVING AND STRIPING NOTES

- ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN JURISDICTIONS RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE LOCAL CITY OR COUNTY SPECIFICATIONS AND STANDARDS, OR THE STATE DOT SPECIFICATIONS AND STANDARDS IF NOT COVERED BY LOCAL CITY OR COUNTY REGULATIONS.
 - ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D) AND CITY STANDARDS.
- CONTRACTOR SHALL FURNISH ALL PAVEMENT MARKINGS FOR FIRE LANES, ROADWAY LANES, PAR STALLS, ACCESSIBLE PARKING SYMBOLS, ACCESS AISLES, STOP BARS AND SIGNS, AND MISCELLANE STRIPING WITHIN THE PARKING LOT AS SHOWN ON THE PLANS
- ALL EXPANSION JOINTS SHALL EXTEND THROUGH THE CURB.
- 5. THE MINIMUM LENGTH OF OFFSET JOINTS AT RADIUS POINTS SHALL BE 2 FEET.
- ALL JOINTS, INCLUDING EXPANSION JOINTS WITH REMOVABLE TACK STRIPS, SHALL BE SEALED WITH JOINT SEALANT.
- THE MATERIALS AND PROPERTIES OF ALL CONCRETE SHALL MEET THE APPLICABLE REQUIREMENTS IN THE A.C.I. (AMERICAN CONCRETE INSTITUTE) MANUAL OF CONCRETE PRACTICE.
- ANY EXISTING PAVEMENT, CURBS AND/OR SIDEWALKS DAMAGED OR REMOVED WILL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE TO THE SATISFACTION OF THE ENGINEER AND OWNER.
- 10. BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY SUITABLE ACCESSIBLE ROUTES (PER AD.A). GRADING FOR ALL SIDEMALKS AND ACCESSIBLE ROUTES INCLUDING CROSSING DRIVEWAYS SHALL CONCROM TO QUIRRENT ADD STATEMATIONION. ISTANDED. IN OR OLSE SHALL ACCESSIBLE FARM SUPPES EXCEED 1 VERTICAL TO 21 MORZONTAL. IN NO CASE SHALL DRIVEN SECRED 2°S. IN NO CASE SHALL DIGITAL DRIVEN SECRED 2°S. IN NO CASE SHALL DRIVEN SHALL ACCESSIBLE FARMING CASE SHALL DIGITAL DRIVEN AS CORPORATE AND CASE SHALL DIGITAL DRIVEN AS CORPORATED SITE AND CASE SHALL DIGITAL DRIVEN AS CORPORATED SITE AND CASE SHALL DIGITAL DRIVEN AS CORPORATED SITE AND CASE SHALL DIGITAL DRIVEN AS CASES AND CASE SHALL DIGITAL DRIVEN AS CASES AND CASES STALLS OR ASILES EXCEED 2% (1.5% TARGET) IN ALL DIRECTIONS. SIDEWALK ACCESS TO EXTERNAL BUILDING DOORS AND GATES SHALL BE ADD. COMPLIANT. CONTRACTOR SHALL HOTIPY EMBER IMMEDIATELY IF ADA CRITERIA CANNOT BE MET IN ANY LOCATION PRIOR TO PAVING. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR A DA COMPLIANCE ISSUES WILL BE ACCEPTED FOR AD A COMPLIANCE ISSUES WILL BE ACCEPTED FOR AD A COMPLIANCE ISSUES WILL BE ACCEPTED FOR AD A COMPLIANCE ISSUES.
- 11. MAXIMUM JOINT SPACING IS TWICE THE DEPTH OF THE CONCRETE PAVEMENT IN FEET.

GRADING AND DRAINAGE NOTES

- GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PRACTURES OF THE SUITABILITY OF ALL EXISTING AND PRACTURES OF THE SUITABILITY OF CONSTRUCTION. THE ENGINEED SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREDANCIES
- THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL ADJUST BMP'S AS STAND IS WELL ESTABLISHED OR ADEQUATE STARILIZATION OCCURS
- CONTRACTOR SHALL ENSURE THERE IS POSITIVE DRAINAGE FROM THE PROPOSED BUILDINGS SO THAT SURFACE RUNOFF WILL DRAIN BY GRAVITY TO NEW OR EXISTING DRAINAGE OUTLETS. CONTRACTOR SHALL ENSURE NO PONDING COLORS IN PAPED AREAS AND SHALL NOTIFE KONNEET IF ANY GRADING DISCREPANCIES ARE FOLION IN THE EXISTING AND PROPOSED GRADES PRIOR TO PLACEMENT OF PAREMENT OR TUTLITIES.
- CONTRACTOR SHALL PROTECT ALL MANHOLE COVERS, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS POWER POLES, GLY WIRES, AND TELEPHONE BOXES THAT ARE TO REMAIN IN PLACE AND UNDISTUR DURING CONSTRUCTION. EXISTING CASTINGS AND STRUCTURES TO REMAIN SHALL BE ADJUSTED MATCH THE PROPOSED FINISHED GRADES.
- BACKFILL FOR UTILITY LINES SHALL BE PLACED PER DETAILS, STANDARDS, AND SPECIFICATIONS SO THAT THE UTILITY WILL BE STABLE. WHERE UTILITY LINES CROSS THE PARKING LOT, THE TOP 8 INCHES SHALL BE COMPACTED SMILARLY TO THE REMANDER OF THE LOT. UTILITY OTICHES SHALL BE VISUALLY INSPECTED DURING THE EXCAVATION PROCESS TO ENSURE THAT UNDESIRABLE FILL IS NOT USED.
- CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF 4" OF TOPSOIL AT COMPLETION OF WORK, ALL UNPAYED AREAS IN EXISTING RIGHTS-OF-WAY DISTURBED BY CONSTRUCTION SHALL BE REGRADED AND SODDED.
- AND OBSERVE PAVEMENT AREAS FOR EVIDENCE OF PONDING. ALL AREAS SHALL ADEQUATELY DRAIN TOWARDS THE INTENDED STRUCTURE TO CONVEY STORM RUNOFF, CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER AND ENGINEER IF ANY DISCREPANCIES ARE DISCOVERED
- WHERE EVISTING PAVEMENT IS INDICATED TO BE DEMOVED AND DEDLACED. THE CONTRACTOR SHA SAW CUT FULL DEPTH FOR A SMOOTH AND STRAIGHT JOINT AND TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED. JOINT AND REPLACE THE PAVEMENT WITH THE SAME
- THE CONTRACTOR SHALL INSTALL PROTECTION OVER ALL DRAINAGE STRUCTURES FOR THE DURA THE CONTROL OF SHALL INSTALL PROTECTION OVER ALL DIAMANGES SHOULD HES FOR THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE ET OWN.
- 11. FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE LOCAL JURISDICTI AGENCY OR TO STATE DOT STANDARDS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL
- 12. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED AS PER PLANS. THE AREAS SHALL THEN BE SOCIED ON SECRED AS SHEEPED IN THE PLANS. FERTILLED, MALCHES, WATERED AND DISTURBED POR ANY RESEASY PROFIT OF THAIL, ACCEPTANCE OF THE JOS SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNERS. ALL EARTHEN AREAS WILL BE SOODED OR SEEDED AND MUCHED AS SHOWN ON THE LANDSCAPE PLAN.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISIN SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR SUITTABLE METHODS OF CONTROL THE CONTRACTOR SHALL COMPLY WITH ALL GOV REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
- SOD WHERE CALLED FOR MILET BE INSTALLED AND MAINTAINED ON EXPOSED SLODES WITHIN AS HOLDE OF COMPLETING FINAL GRADING, AND AT ANY OTHER TIME AS NECESSARY, TO PREVENT EROSION SEDIMENTATION OR TURBID DISCHARGES.
- 15. THE CONTRACTOR SHALL ENSURE THAT LANDSCAPE ISLAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT COMPACTED AND DO NOT CONTAIN ROAD BASE MATERIALS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND PROPERLY DISPOSED OF IN A LEGAL MANNER.
- THE CONTRACTOR SHALL INSTALL ALL UNDERGROUND STORM WATER PIPING PER MANUFACTURER'S RECOMMENDATIONS AND STATE DOT SPECIFICATIONS.
- PAVEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATION OF THE SITE SPECIFIC GEOTECHNICAL EVALUATION REPORT AND CITY & STATE DOT SPECIFICATIONS.
- 18 SPOT FLEVATIONS REPRESENT THE FINISHED SURFACE GRADE OR FLOWLINE OF CURB LINLESS
- 19 LIMITS OF CONSTRUCTION ARE TO THE PROPERTY LINE UNLESS OTHERWISE SPECIFIED ON THE PLAN
- IMMEDIATELY REPORT TO THE OWNER ANY DISCREPANCIES FOUND BETWEEN ACTUAL FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS. 21. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UTILITIES, AND SHALL REPAIR ALL DAMAGE TO EXISTING UTILITIES THAT OCCUR DURING CONSTRUCTION WITHOUT CONFIDENTIAL OF THE PROPERTY OF THE PROPERTY OF T
- 22. BLEND NEW EARTHWORK SMOOTHLY TO TRANSITION BACK TO EXISTING GRADE
- 23. ALL DRODOSED CRADES ONSITE SHALL BE 3-1 OR ELATTER LINLESS OTHERWISE INDICATED ON THE DLANS
- ANY SLOPES STEEPER THAN 4:1 REQUIRE EROSION AND SEDIMENT CONTROL BLANKET
- ADHERE TO ALL TERMS AND CONDITIONS AS NECESSARY IN THE GENERAL N.P.D.E.S. PEI STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR STORMWATER DISCHARGE ASSOCIA CONSTRUCTION ACTIVITIES
- 25. ADJUST ANDIOR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS

WATER STORM SEWER & SANITARY SEWER NOTES

- DEFLECTION OF PPE JOINTS AND CURVATURE OF PIPE SHALL NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS. SECURELY CLOSE ALL OPEN BINGS OF PIPE AND STRINGS WITH A WILERSTORI FULL WHEN WOOK IS NOT IN PROCRESS. THE INTERIOR OF ALL PRES SHALL BE CLEAN AND JOINT SHEARDS WHED CLEAN AND DRY AFTER THE PIPE HAS BEEN LOWERED INTO THE TRENCH. VALVES SHALL BE PULBE AND LOCATED ACCORDING TO THE PLANS.
- ALL PIPE AND PITTINGS SINGLE BE CONFIDENT STORED PELLOWING MANUFACTURERS RECOMMENDATIONS. CACE SHALL BE TAKEN TO ANDID DAMAGE TO THE COATING OR LINNER IN MAY DI. WHICH, IN THE OPINION OF THE THING WHICH IS DAMAGED OR WHICH HAS FLAWS OR IMPERECTIONS WHICH, IN THE OPINION OF THE MEMBER OR OWNER SHEDIEST IT UNIT TO RUSE, SHALL NOT BE USED. ANY PIPE NOT SATISFACTORY FOR USE SHALL BE CLEARLY MARKED AND IMMEDIATELY REMOVED FROM THE JOB STEEL AND SHALL BE REPLICED AT THE CONTRACTOR'S EXPENSE.
- ALL LITHITY AND STORM DRAIN TRENCHES LOCATED LINDER AREAS TO RECEIVE DAVING SHALL BE

- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE

- 15. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO

- A MINIMUM SEPARATION OF 6-FEET IS REQUIRED BETWEEN UNDERGROUND UTILITIES AND TREES UNLESS A ROOT BARRIER IS UTILIZED.
- 22. GAS, PHONE AND ELECTRIC SERVICES SHOWN FOR INFORMATIONAL PURPOSES ONLY. DRY UTILITY COMPANIES MAY ALTER THE DESIGN LAYOUT DURING THEIR REVIEW. CONTRACTOR TO COORDINATE FINAL DESIGN AND INSTALLATION WITH UTILITY COMPANIES.

- CONTRACTOR SHALL REFERENCE STRUCTURAL PLANS (BY OTHERS) FOR FOOTING AND FOUNDATION PAD PREPARATION SPECIFICATIONS.
- 28. CONTRACTOR SHALL REFERENCE M.E.P PLANS (BY OTHERS) FOR ROUTING OF PROPOSED ELECTRICAL & COMMUNICATIONS SERVICES AND SITE LICENTING LAYOUT

THE CONTRACTOR SMAL CONSTRUCT GRANTY SEVER LATERALS, MANNELS, GRANTY SEVER LIKES AND DOMESTIC MATERIAN PRINCESTON SYSTEMA SHOWN ON THESE FARS. THE CONTRACTOR SHALL RICESSARY MATERIAS, EQUIPMENT, MACHINERY, TOLD, MEANS OF MARSPORTATION, AND LABON RECESSARY TO COMPLETE THE WORK IN FULL AND COMPLETE CONTRACT DOCUMENTS AND JURISDICTIONAL AGENCY REQUIREMENTS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND JURISDICTIONAL AGENCY REQUIREMENTS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND JURISDICTIONAL AGENCY REQUIREMENTS. IN THE SEVENT THAT THE MOST STRINGENT SHALL GOVERN ALL EXISTING UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL COMELY WITH ALL REQUIREMENTS FOR UTILITY LOCATION AND COORDINATION IN ACCORDANCE WITH THE NOTES CONTAINED IN THE GENERAL CONSTRUCTION SECTION OF THIS SHEET.

3. THE CONTRACTOR SHALL RESTORE ALL DISTURBED VEGETATION IN KIND, LINESS SHOWN OTHERWISE

ALL PIPE AND FITTINGS SHALL BE CAREFULLY STORED FOLLOWING MANUFACTURERS

WATER FOR FIRE FIGHTING SHALL BE MADE AVAILABLE FOR USE BY THE CONTRACTOR PRIOR TO COMBUSTIBLES BEING BROUGHT ON SITE

ALL OTHER YARD STORM DRAIN THEROPES LOCATED WIDER AREAS TO RECEIVE PAYING SYNALL BE COMPLETELY BACK FILLED IN ACCORDANCE WITH THE GOVERNING JURISDICTIONAL AGENCY RECURRIGATIONS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY RECUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.

UNDERGROUND UTILITY LINES SHALL BE SURVEYED BY A STATE LICENSED PROFESSIONAL LAND SURVEYOR PRIOR TO BACK FILLING.

CONTRACTOR SHALL PERFORM, AT THEIR OWN EXPENSE, ANY AND ALL TESTS REQUIRED BY THE SPECIFICATIONS AND/OR ANY AGENCY HAVING JURISDICTION, THESE TESTS MAY INCLUDE, BUT MAY NOT BE LIMITED TO, INFLITATION AND EXFLITATION, TELEVISION INSPECTION AND A MANDREL TEST ON GRAVITY SEWER. A COPY OF THE TEST RESULTS SHALL BE PROVIDED TO THE UTILITY PROVIDER, OWNER AND JURISDICTIONAL AGENCY AS REQUIRED.

TO RETURN IT TO EXISTING CONDITIONS OR RETTER

UNLESS OTHERWISE STATED IN CITY AND STATE DESIGN STANDARDS AND SPECIFICATIONS, ALL STORM, SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS, MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE, LIDS SHALL BE ABLEED "STORM SEVER". EXISTING CASTINGS AND STRUCTURES WITHIN PROJECT LIMITS SHALL BE ADJUSTED TO MEET THESE CONDITIONS AND THE PROPOSED FINISHED GRADE.

TOPOGRAPHIC INFORMATION IS TAKEN FROM A TOPOGRAPHIC SURVEY BY LAND SURVEYORS. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OWNER FOR REVIEW.

16. ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR FROM INVERT IN TO INVERT

ROOF DRAINS SHALL BE CONNECTED TO STORM SEWER BY PREFABRICATED WYES OR AT STORM STRUCTURES. ROOF DRAINS AND TRUCK WELL DRAIN SHALL RUN AT A MINIMUM 2.0% SLOPE, UNLESS NOTED OTHERWISE, AND TIE IN AT THE CENTERLINE OF THE STORM MAIN.

PROVIDE INSULATION OF UNDERGROUND ROOF DRAINS AND SANITARY SEWER SERVICES IF ADEQUATE FROST DEPTH CANNOT BE PROVIDED.

THE CONTRACTOR SHALL PROTECT EXISTING UNDERGROUND UTILITIES AND APPURTENANCES THAT ARE
TO REMAIN FROM DAMAGE DURING CONSTRUCTION OPERATIONS.

20. THE LOCATION OF EXISTING UTILITIES, STORM DRAINAGE STRUCTURES, AND OTHER ABOVE AND BELOW-GROBE IMPROVEMENTS ARE APPROXIMATE AS SHOWN, IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION, SIZE AND INVERT ELEVATIONS OF EACH PRIOR TO THE START OF CONSTRUCTION.

23. COORDINATE UTILITY INSTALLATION WITH IRRIGATION DESIGN AND INSTALLATION.

24. ALL DIMENSIONS ARE TO FLOW LINE OF CURB UNLESS OTHERWISE NOTED. PERIMETER WALL DIMENSIONS ARE TO INSIDE WALL FACE. REFERENCE ARCHITECTURAL PLANS FOR EXACT WALL WIDTH AND

REFERENCE ARCHITECTURAL PLANS (BY OTHERS) FOR EXACT BUILDING DIMENSIONS, MATERIALS SPECIFICATIONS.

26. REFERENCE M.E.P. PLANS (BY OTHERS) FOR MECHANICAL EQUIPMENT DIMENSIONS AND SPECIFICATIONS

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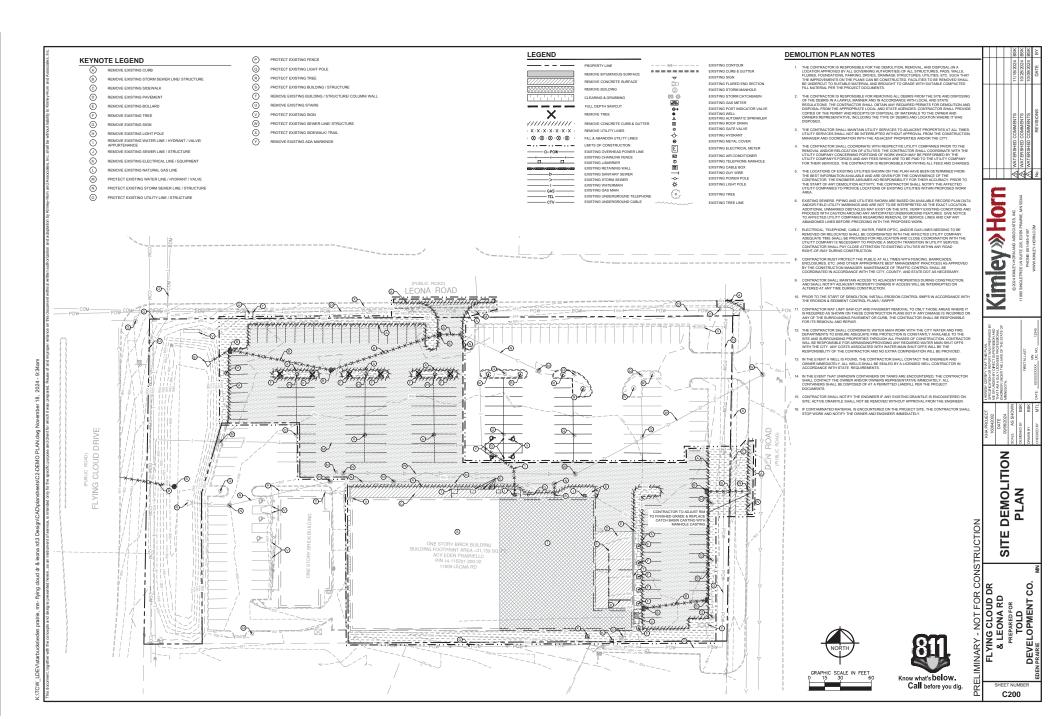
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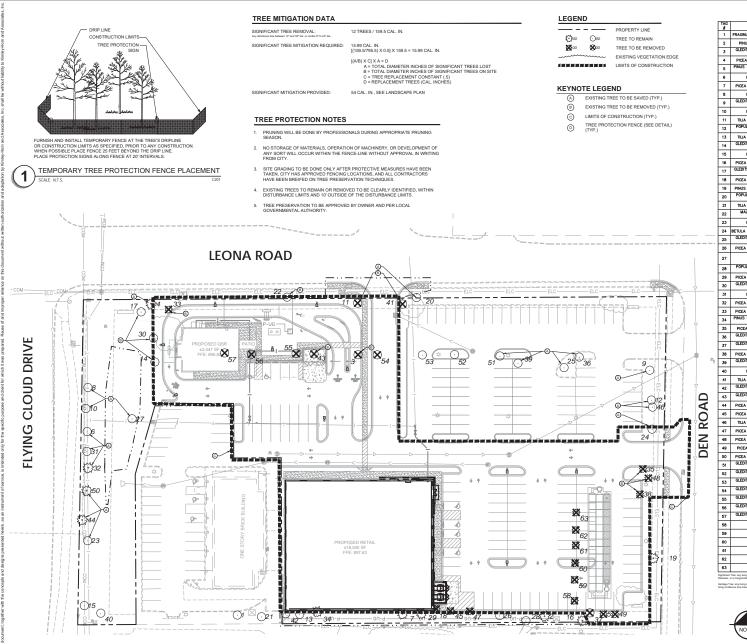
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SPECIES DBH CONDITION STATUS FRAXINUS AMERICANA - WHITE ASH 13 DEAD EXEMPT- OFFSITE PINUS RESINOSA - RED PINE POOR SAVED 13.5 EAID REMOVED FAIR SAVED PINUS STROBUS - EASTERN WHITE PINE REMOVED MALUS - CRABAPPLE FAIR 15 SAVED PICEA ABIES - NORWAY SPRUCE FAIR SAVED MALUS - CRABAPPLE 15.5 FAIR SAVED GLEDITSIA TRICANTHOS - HONEY LOCUST 21.5 GOOD SAVED MALUS - CRABAPPLE 13, 8, 9 FAIR SAVED TILIA AMERICANA - BASSWOO 17.5 FAIR REMOVED POPULUS DELTOIDES - EASTERN 31, 15.5 TILIA AMERICANA - BASSWOOD 18 GOOD SAVED GLEDITSIA TRICANTHOS - HONEY LOCUST 13.75 GOOD SAVED MALUS - CRABAPPLE 18 FAIR SAVED PICEA ABIES - NORWAY SPRUCE 8 GOOD SAVED GLEDITSIA TRIACAMTHOS - HONEY LOCUST 15 FAIR SAVED PICEA ABIES - NORWAY SPRUCE 8.5 FAIR REMOVED 21.5 SAVED POPULUS DELTOIDES - EASTERN COTTONWOOD GOOD SAVED TILIA AMERICANA - BASSWOOD 18 GOOD EXEMPT- OFFSITE MALUS BACCATA— SIBERIAN CRABAPPLE 12.5 POOR SAVED MALUS - CRABAPPLE 13 FAIR SAVED 24 BETULA PAPYRIFERA - PAPER BIRCH 7.5. 7.5 FAIR SAVED 19 FAIR SAVED SAVED SALIX - WILLOW GOOD EXEMPT POPULUS DELTOIDES — EASTERI COTTONWOOD 29.5 GOOD SAVED PICEA ARIES - NORWAY SPRICE 9.5 GOOD SAVED 13 GOOD SAVED FAIR SAVED PICEA PUNGENS - BLUE SPRUCE 20.5 GOOD SAVED PICEA PUNGENS - BLUE SPRUCE 8.5 FAIR REMOVED PINUS STROBUS - EASTERN WHITE PINE FAIR SAVED PICEA GLAUCA- WHITE SPRUCE 10,5 FAIR REMOVED 13 POOR SAVED LOCUST
GLEDITSIA TRICANTHOS - HONEY 17 GOOD REMOVED PICEA PUNGENS - BLUE SPRUCE 13.5 POOR REMOVED GLEDITSIA TRICANTHOS - HONEY LOCUST 20.5 SAVED MALUS - CRABAPPLE 16 POOR SAVED TILIA AMERICANA - BASSWOOD 13.5 REMOVED GOOD GIEDITSIA TRICANTHOS - HONEY 15, 8 POOR SAVED LOCUST GLEDITSIA TRICANTHOS - HONEY 13 POOR REMOVED PICEA PUNGENS - BLUE SPRUCE 16 GOOD SAVED VED / EXEMP1 PICEA ABIES - NORWAY SPRUCE DEAD 14.5 GOOD PICEA ABIES - NORWAY SPRUCE DEAD PICEA PUNGENS - BLUE SPRUCE 20 GOOD REMOVED PICEA GLAUCA- WHITE SPRUCE GOOD REMOVED 13 PICEA PUNGENS - BLUE SPRUCE 20 GOOD SAVED SAVED
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REE INVENTORY PRESERVATION PLAN R R S. DEVELOPMENT FLYING CLOUD D & LEONA RD PREPARED FOR

CONSTRUCTION

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EROSION CONTROL PLAN NOTES

- THE STORM WATER POLLUTION PREVENTION PLAN ("SWPPP") IS COMPRISED OF THE EROSION CONTROL PLAN, THE STANDARD DETAILS, THE PLAN NARRATIVE, ATTACHMENTS INCLUDED IN THE SPECIFICATIONS OF THE SWPPP, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.

- STE ENTY AND DIT LOCATIONS SHALL SE MANTAINED IN A CONSTITUTION THAT WISE PREVENT THE TREACHED OR FORMAGE OF SERMEN OTHER PAILLE ROLDWAYS SECRETARY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY SECRETARY FROM THE PROPERTY OF THE PROPERT

- CONTRACTOR SHALL DENOTE ON THE PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRALERS, AND TOLEF FACILITIES.
- ALL WASH WATER FROM THE CONSTRUCTION SITE (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED BEDDIED INSPOSAL
- SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ON SITE. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
- DITCHES OR WATERS OF THE STATE.
- STAGING AREAS, STOCKPILES, SPOILS, ETC. SHALL BE LOCATED OUTSIDE OF DRAINAGE WAYS SUCH THAT STORM WATER RUNDFF WILL NOT BE ADVERSELY AFFECTED. PROVIDE STABILIZATION MEASURES SUCH AS PERMIETER FORGION CONTROL BMP'S, SEEDING, OR OTHER COVERING AS NECESSARY TO PREVENT EROSION.
- CONTROLLES BALL SE SESPOSSEE FAS RE-STABLESHOS AV ERGOR CONTROLLES BED CRITICAL DE SINO CONTROLLES CONTROLLES CONTROLLES CONTROLLES DE SINO CONTROLLES CONTR
- EROSION CONTROL BMP'S SHOWN ON THESE PLANS SHALL BE INSTALLED PRIOR TO THE START OF LAND-DISTURBING ACTIVITIES ON THE PROJECT, AND INITIATED AS SOON AS
- THE CONTRACTOR SMALL FELD ADJUST ANDIOR PROVIDE ADDITIONAL BOSIGNO CONTROL

 BMP'S AS NEEDED TO PREVENT EROSION AND OFF-SITE SEDMENT DISCHARGE FROM THE

 CONSTRUCTION STEEL COR AND RECORD NAY ADJUSTMENTS AND DEVARIONS FROM THE

 APPROVED EROSION CONTROL PLANS WITHIN THE SWPPP DOCUMENTS STORED IN THE

 JOS SITE TRACEL.

PHASE 1 SEQUENCE OF CONSTRUCTION

- INSTALL PERIMETER EROSION CONTROL (I.E. SILT FENCE) AND INLET PROTECTION AT EXISTING STORMWATER RULETS. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT PREPARE TEMPORARY PARKING AND STORAGE AREA.
- PREPARE TEMPORARY PARKING AND STORAGE AREA.
 CONSTRUCT AND STABLEE DIVERSIONS AND TEMPORARY SEDIMENT BASINS.
 CLEAR AND GRUB THE SITE.
 BEGIN MASS SITE GRADING AND ROUGH GRADE SITE SUFFICIENTLY TO ESTABLISH
 PRICHOGED DRAINAGE PATTERNS.
 START CONSTRUCTION OF THE BUILDING PAD AND STRUCTURES.

- TEMPORARILY SEED, THROUGHOUT CONSTRUCTION, DISTURBED AREAS THAT WILL BE INACTIVE FOR 14 DAYS OR MORE OR AS REQUIRED BY THE NPDES AND/OR CITY GRADING PERMIT(S).

NOTE: THE SEQUENCE OF CONSTRUCTION IS INTENDED TO CONVEY THE GENERAL CONCEPTS OF THE EROSIGNA CONTROL DESIGN AND SHOULD NOT BE RELIED UPON FOR CONSTRUCTION PRIVIOSES. THE CONTRACTOR IS SECURITIES THAT SHOULD NOT BE RELIED UPON FOR CONSTRUCTION THAT SHOULD NOT BE CONTRACTOR AND AND THE CONSTRUCTION AND AND THE CONSTRUCTION SHOULD NOT!! THE PRIVILET IN NOTITING IMMEDIATELY FRIGHT TO ADDID DURING CONSTRUCTION FOR AND ADDID IN PROPRIATION ON THE CONSTRUCTION SEQUENCE.

SWPPP UPDATES & AMENDMENTS

THE CONTRACTOR MUST UPDATE THE SWPPP BY NOTING ON THE SITE MAPS IN THE JOB SITE BINDER TO REFLECT THE PROGRESS OF CONSTRUCTION ACTIVITIES AND GENERAL CHANGES TO THE PROJECT SITE FOR THE DURATION OF LAND DISTURBING ACTIVITIES. AT A MINIMUM. LOCATION OF THE JOB SITE TRAILER, TEMPORARY PARKING & LAYDOWN AREAS, PORTA-PO WHEEL WASH, CONCRETE WASHOUT, FUEL & MATERIAL STORAGE, SOLID WASTE CONTAINE AND OTHER CONSTRUCTION RELATED FACILITIES THAT MAY IMPACT STORMWATER RUNDO

RPBCWD EROSION CONTROL PLAN NOTES

- FINAL SITE STABILIZATION MEASURES MUST SPECIFY THAT AT LEAST SIX INCHES
 OF TOPSOIL OR ORGANIC MATTER BE SPREAD AND INCORPORATED INTO THE
 UNDERLYING SIX DURING FINAL SITE TREATMENT WHEREVER TOPSOIL HAS BEEN
 REMOVED.
- CONSTRUCTION SITE WASTE SUCH AS DISCARDED BUILDING MATERIALS, CONCRETE TRUCK WASHOUT, CHEMICALS, LITTER AND SANITARY WASTE MUST BE PROPERLY MANAGED.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL BMPS MUST BE MAINTAINED UNTIL COMPLETION OF CONSTRUCTION AND VEGETATION IS ESTABLISHED SUFFICIENTLY TO ENSURE STABILITY OF THE SITE, AS DETERMINED BY THE DISTRICT.
- SOIL SURFACES COMPACTED DURING CONSTRUCTION AND REMAINING PERVIOUS UPON COMPLETION OF CONSTRUCTION MUST BE DECOMPACTED TO ACHIEVE A SOIL COMPACTION TESTING PRESSURE OF LESS THAN 1,400 KIDPASCALS OR 700 POUNDS PER SQUARE INCH IN THE UPPER 12 INCHES OF THE SOIL PROPILE WHILE TAKING CARE TO PROTECT LUTLIES, TREE ROOTS AND OTHER EXISTING
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN 7 CALENDAR DAYS AFTER LAND-DISTURBING WORK HAS TEMPORARILY OR PERMANENTLY CEASED ON A PROPERTY THAT DRAINS TO AN IMPAIRED WATER, WITHIN 14 DAYS ELSEWHERE
- THE PRINTIES HAST, AT A MINIMAL REPIECT, MAINTAN AND BERAIN ALL BISTURIES DESPECTAS AND ALL SOCIOION AND SEMBINIS CONTROL FACILITIES AND SOIL STABLIZATION MEASURES EVERY DAY WORK IS PERFORMED ON THE SITE AND AT LEAST WEREAU VARTIL AMODISTIERRING ACTIVITY HOS CEASED. WEEKS YUNTIL VIGITATIVE COVER IS ESTABLISHED. THE PERMITTER WILL MAINTAIN ALOD GATEVITIES LINGER THIS SECTION FOR REPIECTION BY THE

LEGEND

ROCK ENTRANCE EROSION CONTROL BLANKET

//// INLET PROTECTION SAFETY FENCE

KEYNOTE LEGEND

(A) SILT FENCE B INLET PROTECTION 0 ROCK CONSTRUCTION ENTRANCE Ē EROSION CONTROL BLANKET Ē BIOROLL

PHASE I BMP QUANTITIES		
SILT FENCE	±865 LF	
EROSION CONTROL BLANKET	±1,880 SF	
INLET PROTECTION	10 EA	
ROCK CONSTRUCTION ENTRANCE	1 EA	
BIO ROLL	±640 LF	





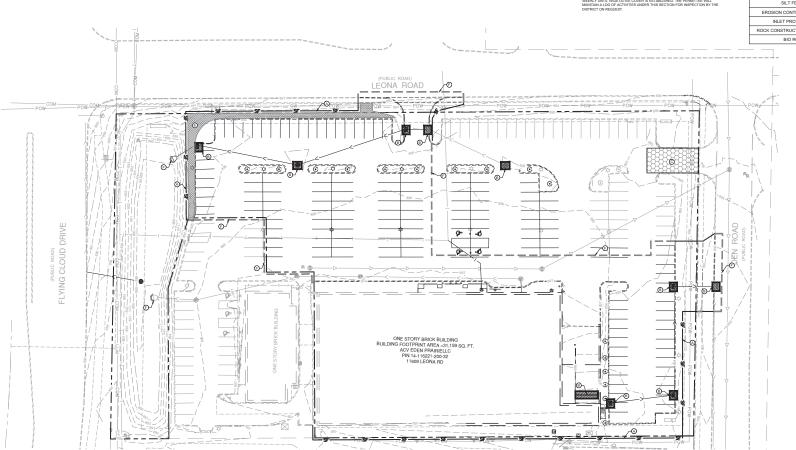
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EROSION CONTROL PLAN NOTES

- THE STORM WATER POLLUTION PREVENTION PLAN ("SWPPP") IS COMPRISED OF THE EROSION CONTROL PLAN, THE STANDARD DETAILS, THE PLAN NARRATIVE, ATTACHMENTS INCLUDED IN THE SPECIFICATIONS OF THE SWPPP, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.

- APPROVED SEDIMENT BASIN. ANY FINES IMPOSED FOR DISCHARGING SEDIMENT ONTO A PUBLIC RIGHT OF WAY SHALL BE PAID BY THE CONTRACTOR.

- CONTRACTOR SHALL DENOTE ON THE PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRALERS, AND TOLLET FACILITIES.
- SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ON SITE. THE USE OF MOTOR GILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHBITED.
- DITCHES OR WATERS OF THE STATE.
- STAGING AREAS, STOCKPILES, SPOILS, ETC. SHALL BE LOCATED OUTSIDE OF DRAINAGE WAYS SUCH THAT STORM WATER RUNDFF WILL NOT BE ADVERSELY AFFECTED. PROVIDE STABILIZATION MEASURES SUCH AS PERMIETER FORGION CONTROL BMP'S, SEEDING, OR OTHER COVERING AS NECESSARY TO PREVENT EROSION.
- CONTROLLES BALL SE ESPOSSEE FOR RESTRUBERIO AV ERDOON CONTROL SIGN DES CONTROLLES CONTROLLES CONTROLLES CONTROLLES CONTROLLES REPRESENTATIVE OF ANY DEPCEMBLOSE IN THE ESTABLISHED ERDOON CONTROL MEASURES THAT HAY LEAD TO LUMINICADED DISSONNEGE OF STOM WATER CONCRETE DUMPING, CONCRETE RESIDUE, PMYTR, SOLICIETT, GREADES, PEES, LURISCANT CLUS PESTICORS, AND SOLICIETT, GREADES, PEES,
- EROSION CONTROL BMP'S SHOWN ON THESE PLANS SHALL BE INSTALLED PRIOR TO THE START OF LAND-DISTURBING ACTIVITIES ON THE PROJECT, AND INITIATED AS SOON AS
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPLYING WITH THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION, AND SHALL MAINTAIN COMPLIANCE WITH APPLICABLE LAWS AND REQUUATIONS FOR THE DURATION OF CONSTRUCTION.
- THE CONTRACTOR SHALL FIELD ADJUST AND/OR PROVIDE ADDITIONAL EROSION CONTROL BMP'S AS NEEDED TO PREVENT EROSION AND OFF-SITE SEDIMENT DISCHARGE FROM THE CONSTRUCTION SITE. LOG AND RECORD ANY ADJUSTMENTS AND DEVIATIONS FROM THE APPROVED EROSION CONTROL PLANS WITHIN THE SWPPP DOCUMENTS STORED IN THE JOS SITE TRALEGY.

PHASE 2 SEQUENCE OF CONSTRUCTION

- TEMPORARY SEET THROUGHOUT CONSTRUCTION, DENIDED AREAS THAT WILL BE THROUGHOUT LINGERGOODING STEET UTILITIES AND STORM SERVER, ROLLDING CONSTRUCT LINGERGOODING STEET UTILITIES AND STORM SERVER, ROLLDING UNDERSGOODING STORMANTER NAMES THE STEETS. NEVER STORM SERVER STRUCTURES NOTAL, APPROPRIATE INLET PROTECTION AT ANY NEW STORM SERVER STRUCTURES COMPARET SITE GROUND AND FERMINANTY STRUCTURE. AREA SODE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
- PULCE PAYEMENT BASE MAI ISPAL AND INSI ALL SUBERAININGS STREM.

 CONSTRUCT PARMENTS, CURB & QUITTER, AND SUBERAININGS STREM.

 CONSTRUCT PARMENTS, CURB & QUITTER, AND SUBERAININGS.

 AREAS AS WOOK PROGRESSES AND NUMBER OF THE PROTECTION DEVICES WITHIN PAYED

 AREAS AS WOOK PROGRESSES.

 COMPLETE FINAL GRADION AND INSTALL OF PERMANENT STABILLIZATION (SEEDING,

 SODDING, ETC.) WITHIN LANDSCAPED AREAS.

 WHEN THE SITE MAS ACRIENCE PRAIK ATBILLIZATION AS DEFINED BY THE APPLICABLE.
- EROSION CONTROL PERMITS, REMOVE ALL REMAINING TEMPORARY EROSION & SEDIMENT CONTROL BMP'S AND RE-STABILIZE ANY AREAS DISTURBED BY THE REMOVAL

NOTE: THE SECUENCE OF CONSTRUCTION IS INTENDED TO CONVEY THE GENERAL CONCEPTS OF THE REGISION CONTROL DESIGN AND SHOULD NOT BE RELIED UPON FOR CONSTRUCTION PROPOSES. THE CONTRACTOR IS SHOULD NOT BE RELIED UPON THE REPORT AND THE PROPOSES THE CONTRACTOR IS SHOULD NOT BE REPORTED BY THE PROPOSE OF THE CONTRACTOR SHOULD NOT THE PROPOSE OF THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IMMEDIATELY, PRIOR TO ANDOR UNKING CONSTRUCTION IF ANY ADDITIONAL INFORMATION ON THE CONSTRUCTION SEQUENCE.

SWPPP UPDATES & AMENDMENTS

RPBCWD EROSION CONTROL PLAN NOTES

- ADDITIONAL MEASURES. SUCH AS HYDRAULIC MULCHING AND OTHER PRACTICES AS SPECIFIED BY THE DISTRICT MUST BE USED ON SLOPES OF 3:1 (H:V) OR STEEPER TO PROVIDE ADEQUATE STABILIZATION.
- FINAL SITE STABILIZATION MEASURES MUST SPECIFY THAT AT LEAST SIX INCHES OF TOPSOIL OR ORGANIC MATTER BE SPREAD AND INCORPORATED INTO THE UNDERLYING SOLD DURING FINAL SITE TREATMENT WHEREVER TOPSOIL HAS BEEN REMOVED. TOPSOIL TO CONTAIN AT LEAST 5% ORGANIC CONTENT.
- CONSTRUCTION SITE WASTE SUCH AS DISCARDED BUILDING MATERIALS, CONCRETE TRUCK WASHOUT, CHEMICALS, LITTER AND SANITARY WASTE MUST BE PROPERLY MANAGED.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL BMPS MUST BE REMOVED UPON FINAL STABILIZATION.
- SOIL SURFACES COMPACTED DURING CONSTRUCTION AND REMAINING PERVIOUS UPON COMPLETION OF CONSTRUCTION MUST BE DECOMPACTED TO ACHEVE A SOIL COMPACTED TO TESTING PRESSURE PLESS THAN 1/40 NG.OFMECH. OR ADDITIONAL ADDI
- LAND-DISTURBING WORK HAS TEMPORARILY OR PERMANENTLY CEASED ON A PROPERTY THAT DRAINS TO AN IMPAIRED WATER, WITHIN 14 DAYS ELSEWHER!
- THE PERMITTEE MIST AT A MINIMAM, INSPECT, MAINTAIN AND REPART ALL DISTURBED SURFACES AND ALL ENGIGINA AND SEDMENT CONTROC. FACILITIES AND SUL STABLEZION MASSINES ENERY AND WORKS REPROPORTION OF THE STREAM AND ALL STABLES ALL SAND ALL STABLES AND ALL STAB

LEGEND

ROCK ENTRANCE EROSION CONTROL BLANKET



- SAFETY FENCE

(F)

KEYNOTE LEGEND

(A) SILT FENC (B) INLET PROTECTION 0 ROCK CONSTRUCTION ENTRANCE (E)

EROSION CONTROL BLANKET

BIOROLL

PHASE 2 BMP QUANTITIES		
SILT FENCE	±865 LF	
EROSION CONTROL BLANKET	±1,880 SF	
INLET PROTECTION	12 EA	
ROCK CONSTRUCTION ENTRANCE	1 EA	
= = BIO ROLL	±640 LF	

SITE COMPACTION NOTES

THE CONTRACTOR SHALL ENSURE ALL SOIL SURFACE COMPACTED DURING CONSTRUCTION AND REMAINING PERVIOUS UPON COMPLETION OF CONSTRUCTION MUST BE DECOMPACTED TO

HIEVE: A SOIL COMPACTION TESTING PRESSURE OF LESS THAN 1,400 KILOPASCALS OR 200 POUNDS PER SQUARE INCH IN THE UPPER 12 INCHES OF SOIL OR

A BULK DENSITY OF LESS THAN 1.4 GRAMS PER CUBIC CENTIMETER OR 87 POUNDS PER CUBIC FOOT IN THE U INCHES OF SOIL.

IN ADDITION, UTILITIES, TREE ROOTS AND OTHER EXISTING VEGETATION I BE PROTECTED UNTIL

STABILIZATION OF DISTURBED AREAS MUST BEGIN IMMEDIATELY
WHENEVER LAND-DISTURBING ACTIVITY HAS PERMANENTLY OR
TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT

DREDGING & SEDIMENT REMOVAL NOTES

THE CONTRACTOR SHALL SUBMIT TO RPBCWD THE CONSTRUCTION SCHEDULE. DESCRIPTION OF EQUIPM CONSTRUCTION SCHEDULE, DESCRIPTION OF EQUIPMENT T USED, AND LOCATION MAP OF SPOIL CONTAINMENT AREA PI TO START OF CONSTRUCTION.

OSION AND CONTROL PLAN PHASE 2 ROSION /

- NOT FOR Know what's below. Call before you dig.

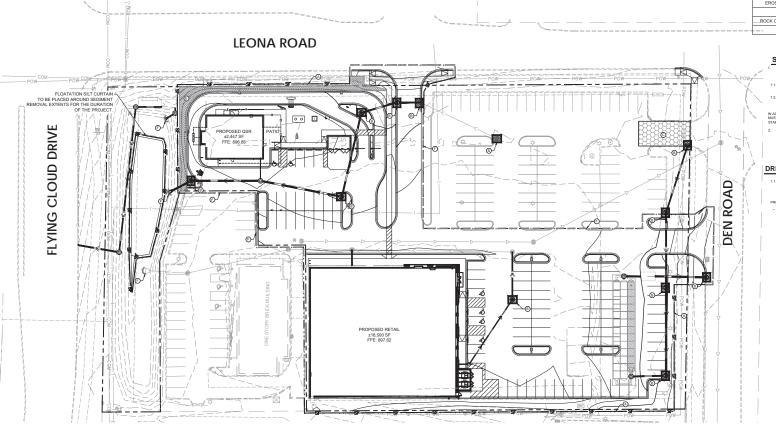


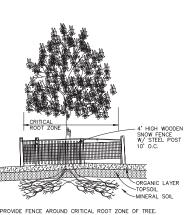
CONSTRUCTION
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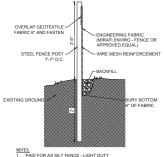




VARIES: FULL WIDTH OF EXISTING DRIVEWAY OPENING, ELSE 20' (6.10 m) MIN. WIDTH.

PROVIDE FENCE AROUND CRITICAL ROOT ZONE OF TREE. FENCE SHALL BE PLACED IN A CIRCLE WITH A RADIUS OF 1' PER 1" DIAMETER OF THE TREE MEASURED AT 4.5' ABOVE GROUND FOR INDIVIDUAL TREES OR STANDS OF TREES.

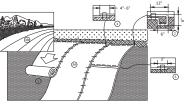
5 TREE PROTECTION



NOTES:

1. PAID FOR AS SILT FENCE - LIGHT DUTY
2. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL EROSION
CONTROL MATERIALS FOLLOWING TURF ESTABLISHMENT

SILT FENCE



- I. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIMIC FERTILIZER, AND SEED.

 BEGINA THE FOR OF THE SLOPE BY AND-CHARGE THE BLANKET IN A 6"
 DEEP X 6" WIDE TRENCH WITH A PROCNABATELY 12" OF BLANKET CHARGE.

 THE BLANKET HE THE TO REPORT OF THE SHANKET CHARGE.

 THE BLANKET HE STATE OF THE SHANKET BLANKET CHARGE.

 THE BLANKET HAS THE STATE SHANKET BLACK OVER SEED AND COMPACTED THE TRENCH AFTER STATE IN A PROVINCIAL THE SEED AND COMPACTED SOIL AND FOLD REMAINING 12" POWER TO SHANKET BLACK OVER SEED AND COMPACTED SOIL AND FOLD REMAINING 12" POWER SHANKET BLACK OVER SEED AND COMPACTED SOIL AND FOLD REMAINING 12" POWER SHANKET BLACK OVER SEED AND COMPACTED SOIL AND FOLD STATE SHANKETS AND SHANKET BLACK OVER SEED AND COMPACTED STATE SHANKETS AND SHANKET SHANKET SOIL ADMINISTRATE SIZE AD

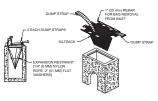
- ACROSS ENTIRE BLANKET WIDTH. PLACE STAPLES/STAKES PER MANUFACTURE RECOMMENDATION FOR THE APPROPRIATE SLOPE BEING APPLIED.

NOTES:

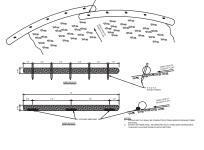
. M LOSES SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS
GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE
BLANKETS.

. FOLLOW EROSION CONTROL TECHNOLOGY COUNCIL SPECIFICATION FOR
PRODUCT SELECTION

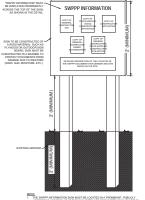
6 EROSION CONTROL BLANKET



INLET PROTECTION - SEDIMENT FILTER SACK

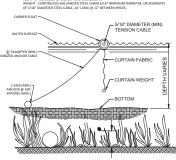


BIOROLL



7 SWPPP INFORMATION SIGN

E-MAXIMUM FOR WATER DEPTHS UP TO 3-OF AND 1-OF MAXIMUM FOR DEPTHS OVER 3-OF. ELIMINATE ANCIONA AND CABLE FOR WATER OPPHS LESS THAN 3-OF OR DISTANCE SETWEEN SHOEL ANCIONES FOR TRIVIADIO CABLE USES THAN 100. TO STAND AND CABLE OF THE OFFICE OF THE OFFICE OF DAMETER AND LENGTH TO PREVAIT SEADORS AND FALL OUT.



8 FLOATING SILT CURTAIN

CONSTRUCTION FLYING CLOUD DR

8 LEONA RD

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SEDIMENT
CONTROL DETAILS **EROSION**

PERMITTED PROJECT AREA:
FOR PURPOSES OF THIS SWPPP AND ASSOCIATED STORMWATER PERMIT, PERMITTED FOR PURPOSES OF THIS SWPPP AND ASSOCIATED STORMWATER FEBRIT, PERMITTED PROJECT LARGE, IS DEPINED AS ANY AND ALL AREAS WITHIN THE PROJECT LIMITS OF DISTURBANCE, AS SHOWN ON THE SWPPP SITE MAPS AND IDENTIFIED IN THE NOTICE OF INTENT TO THE AGENCY. ALL (ROUND-DISTURBING AND CONSTRUCTION-RELATED ACTIVITIES (MATERIAL STORAGE, DUMSTERS, PARKING AREAS, PROJECT OFFICE TRAILES, ETC.) MUST BE INCLUDED WITHIN THE PREMITTED PROJECT AREA LIMITS OF

ALL AREAS OUTSIDE THE PERMITTED PROJECT AREA (I.E., LIMITS OF DISTURBANCE) ACQUIRED ON DESIGN THE ECONICAL ASSERCEMENT OF THE COMPRISED OF CONTROL OF CONTRO CONSTRUCTION MANAGER, AND THE ENGINEER PRIOR TO THEIR USE. REQUESTS WILL BE REVIEWED ON A CASE BY CASE BASIS AND IF APPROVED, LIMITATIONS ON USE WILL BE

C. SPECIAL PROJECT AREAS:
THERE ARE NO SPECIAL PROJECTS, LOCATED BEYOND THE OWNER PERMITTED PROJECT
AREA, REQUIRING INSPECTION AND MAINTENANCE ASSOCIATED WITH THIS
CONSTRUCTION PROJECT.

D 1 NON-STORMWATER DISCHARGES-

NON-STORMWATER DISCHARGES:
THE GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH
CONSTRUCTION ACTIVITIES PROHIBITS MOST NON-STORMWATER DISCHARGES DURING
THE CONSTRUCTION PHASE. ALLOWABLE NON-STORMWATER DISCHARGES THAT OCCUR
DURING CONSTRUCTION ON THIS PROJECT, ARE INCLUDED IN THE SECTION PART IV JO. OF

BEST MANAGEMENT PRACTICES (BMPS) MUST BE IMPLEMENTED FOR THE GENERAL PERMIT ALLOWABLE DISCHARGES FOR THE DURATION OF THE PERMIT. THE TECHNIQUES DESCRIBED IN THIS SWPPP FOLUS ON PROVIDING CONTROL OF POLILUTANT DISCHARGES WITH PRACTICAL APPROACHES THAT UTILIZE READILY AVAILABLE EXPERTISE,

NON-STORMWATER COMPONENTS OF SITE DISCHARGES MUST BE UNCONTAMINATED NON-TURBID WATER ALL NON-STORMWATER DISCHARGES MUST BE ROUTED TO A STORMWATER CONTROL PRIOR TO DISCHARGE. WATER USED FOR CONSTRUCTION WHICH DISCHARGES FOR A PUBLIC WATER SUPPLY WHICH DUSCHARGES AROUS HE SHE HE STATE HERALTH ERROW A FUBLA. WATER SUPFLY OF PRIVATE HE STATE HERALTH EPRAVED HE SEED FOR CONSTRUCTION THAT DEPARTMENT. WATER ISSEPTOR CONSTRUCTION THAT DESCRIPTION THAT HE STATE IT CAN BE RETAINED IN RETENTION PONSE UNTIL IT NOT DISCHARGE FROM THE STIE; IT CAN BE RETAINED IN RETENTION PONSE UNTIL IT INFLITARIES OR EVADORATES. WHEN RON-STORMWATER IS DISCHARGED FROM THE STIE, IT MUST BE DONE IN A MANNER SUCH THAT TO DOES NOT CAUSE ERROSION OF THE

D.2 POWER WASHING:

FOWER WASHING:

PROCESS WATER SUCH AS POWER WASHING WATER AND CONCRETE CUTTING EFFLUENT, AMONG OTHERS, MUST BE COLLECTED FOR TREATMENT AND DISPOSAL. IT MUST NOT BE FLUSHED DIVO THE SITE STORM DRAIN SYSTEM OR DISCHARGED OF

DISCHARGE POINTS:

ALL DISCHARGE POINTS MUST BE INSPECTED TO DETERMINE WHETHER EROSION AND
SEDMENTATION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING DISCHARGE OF
SEDMENT FROM THE SITE ANDOR IMPACTS TO RECEIVING WATERS. SEDMENT
ACCUMULATION DOWNGRADIENT OF DISCHARGE LOCATIONS SHALL BE REPORTED AS A SEDIMENT DISCHARGE AND THE POTENTIAL UPSTREAM CAUSE SHALL BE INVESTIGATE TO PREVENT FUTURE OCCURRENCE. CONTACT THE CM AND CEC TO DETERMINE APPROPRIATE ACTION FOR CLEANUP OF DISCHARGED SEDIMENT THAT MAY BE OUTSIDE OF THE LIMITS OF DISTURBANCE. SEE SAMPLING AND MONITORING OF EFFLUENT PLAN

CHAIN OF RESPONSIBILITY: TRENT MAYBERRY TOLD DEVELOPMENT CO. 200 SOUTHDALE CENTER EDINA, MN 55435 (952) 278-0112

LONG-TERM OPERATION AND MAINTENANCE OF THE STORM WATER TREATMENT

SYSTEM TRENT MAYBERRY TOLD DEVELOPMENT CO 200 SOUTHDALE CENTER EDINA, MN 55435

E. RECEIVING WATER:
THE SITE IS PART OF THE RILEY BLUFF PURGATORY CREEK WATERSHED. THE PROPOSED SITE DISCHARGES TO THE CITY STORMWATER SYSTEM AND IS ASSUMED TO DISCHARGE TO LAKE IDLEWILD & ANDERSON LAKES

SWPPP DESIGNER:

BRIAN M. WURDEMAN, P.E. 11995 SINGLETREE LANE, SUITE 225 EDEN PRAIRIE, MN 55344 CERTIFICATION EXPIRES 2025

SIGNATURE:

INSTALLER CERTIFICATION INSPECTOR CERTIFICATION NAME: ADDRESS:

SWPPP CERTIFICATION SWPPP CERTIFICATION

SIGNATURE:

EROSION AND SEDIMENT CONTROL NOTES

- SUBCONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT FRACTICES AS REQUIRED BY THIS STORM WATER POLLUTION PREVENTION PLAN. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST OF OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
- BEST MANAGEMENT PRACTICES (BMPS) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY
- SITE MAP MUST CLEARLY DELINEATE ALL STATE WATERS. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.
- SUBCONTRACTOR TO LIMIT DISTURBANCE OF SITE IN STRICT ACCORDANCE WITH SWPPP IMPLEMENTATION SEQUENCE, OR AS REQUIRED BY THE APPLICABLE GENERAL PERMIT. NO UNNECESSARY OR IMPROPERLY SEQUENCED CLEARING AND/OR GRADING SHALL BE PERMITTED.
- STABILIZED IMMEDIATELY UPON COMPLETION OF MOST RECENT GRADING ACTIVITY, WITH THE USE OF FAST-GERMINATING ANNUAL GRASSGRAIN VARIETIES, STRAWHAY MULCH, WOOD CELLULOSE FIBERS, TACKIFIERS, NETTING AND/OR BLANKETS. COMPLETION MUST BE ACHIEVED WITHIN 14 DAYS.
- DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY STABILIZED AS SHOWN ON THE PLANS. THESE AREAS SHALL BE SEEDED, SODDED, AND/OR VEGETATED IMMEDIATELY, AND COMPLETED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS, REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN.
- SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNDIF YELOCITIES AND EROSION. TEMPORARY ANDOR PERMANENT STABILIZATION SHALL BE APPLIED PER REQUIREMENTS IN THISE E&C CONTROL NOTES.
- DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION AND SEDIMENT CONTROL MEASURES (SILT FENCES, ETC.) TO PREVENT EROSION AND POLLUTANT DISCHARGE OFF-SITE.
- PREVENTION PLAN, SIGLAL BE MANTANED IN FILE STORM WATER POLLUTION PREVENTION PLAN, SIGLAL BE MANTANED IN FILELY FENCIFICACI, COORDITION NOTIFICATION OF MANTANED IN FALLY FENCIFICACI, COORDITION OF MANTANED IN FALLY FENCIFICACI, COORDITION OF MANTANED IN FALLY FENCIFICACI, CONTINUED AND ANY ADMINISTRATION OF MANTANED PREVENTION OF THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED IN ACCORDANCE WITH THE CONTROL OF MANTANED IN ACCORDANCE WITH THE STRIP FLANT.
- STORM WATER POLLUTANT CONTROL MEASURES INSTALLED DURING CONSTRUCTION THAT WILL ALSO PROVIDE STORM WATER MANAGEMENT AFTER CONSTRUCTION, ARE INCLUDED IN THE CONTRACT DOCUMENTS. THE SITE-SPECIFIC POST CONSTRUCTION STORM WATER OPERATION AND MAINTENANCE (DEM) MANUAL IS INCLUDED IN THE CONTRACT DOCUMENTS.
- ALL DEPMANENT CONTROLS AND SYSTEMS MUST BE INSTALLED AND FUNCTIONING AS DESIGNED AND FREE OF ACCUMULATED SEDIMENT AND DEBRIS DURING FINAL PROJECT INSPECTION AND APPROVAL.

HAZARDOUS MATERIAL MANAGEMENT & SPILL REPORTING

ANY HAZARDOUS OR POTENTIALLY HAZARDOUS MATERIAL THAT IS BROUGHT ONTO THE CONSTRUCTION STE SHALL BE HANDLED PROPERLY TO REDICE THE POTENTIAL FOR STORMWATER POLITIONS. ALL MATERIALS USED ON THIS CONSTRUCTION STE SHALL BE PROPERLY STORED, HANDLED, DISPENSED AND DISPOSED OF FOLLOWING ALL APPLICABLE PROPERLY STORED, HANDLED, DISPENSED AND DISPOSED OF FOLLOWING ALL APPLICABLE ABELIATED AND COMBISTRIEL LIQUIDS SHALL BE STORED AND HANDLED ACCORDING TO APPLICABLE REQULATIONS, AND, AT A MINIMUM, ACCORDING TO 20 CRI 1926.15. ONLY APPRIVATE CONTAINERS AND PORTRABLE TANKS SHALL BE USED FOR STORAGE AND HANDLING OF FLAMMABLE AND COMBUSTIBLE LIQUIDS.

MATERIAL SAFETY DATA SHEETS (MSDS) INFORMATION SHALL BE KEPT ON SITE FOR ANY AND ALL APPLICABLE MATERIALS. HOWEVER, MSDS MAY ALSO BE ACCESSED VIA TELEPHONE OR OTHER ELECTRONIC MEANS OR APPARATUS.

IN THE EVENT OF AN ACCIDENTAL SPILL, IMMEDIATE ACTION SHALL BE TAKEN BY THE SUBCONTRACTOR TO CONTAIN AND REMOVE THE SPILLED MATERIAL. THE SPILL SHALL BE REPORTED TO THE APPROPRIATE AGENCIES IN THE REQUIRED THE FRAMES. AS REQUIRED UNDER THE PROVISIONS OF THE CLEAN WATER ACT, ANY SPILL OR DISCHARGE ENTERING WATERS OF THE UNITED STATES SHALL BE PROPERLY REPORTED

ALL HAZARDOUS MATERIALS, INCLUDING CONTAMINATED SOIL AND LIQUID CONCRETE WASTE, SHALL BE DISPOSED OF BY THE SUBCONTRACTOR IN THE MANNER SPECIFIED BY FEDERAL, STATE AND LOCAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS.

THE SUBCONTRACTOR SHALL PREPARE A WRITTEN RECORD OF ANY SPILL AND ASSOCIATED THE SUBCONTRACTOR SHALL PREPARE A WRITTEN RECORD OF ANY SPILL AND ASSOCIATED CLEAN-UP ACTIVITIES OF PETROLEUM PRODUCTS OR HAZARDOUS MATERIALS IN EXCESS OF I GALLON OR REPORTABLE QUANTITIES, WHICHEVER IS LESS, ON THE DAY OF THE SPILL. THE SUBCONTRACTOR SHALL PROVIDE NOTICE TO OWNER, VIA THE ONLINE CRITICAL INCIDENT REPORT, ISMBEDIATELY UPON IDENTIFICATION OF ANY SPILL. SPILL REPORT FORMS ARE AVAILABLE IN THE ONLINE SWPPP REPORTING SYSTEM PROVIDED BY THE OWNER. COPIES OF SPILL CRITICAL INCIDENT REPORTS SHALL BE PRINTED AND MAINTAINED IN THE JOBSITE

ANY SPILLS OF PETROLEUM PRODUCTS OR HAZARDOUS MATERIALS IN EXCESS OF REPORTABLE QUANTITIES AS DEFINED BY EPA OR THE STATE OR LOCAL AGENCY REGULATIONS, SHALL BE IMMEDIATELY REPORTED TO THE EPA NATIONAL RESPONSE CENTER (1-800-42-8802) AND THE MINNESOTA DEPARTMENT OF NATURAL RESOURCES

THE STATE REQUIRES REPORTING WHEN:

- THERE IS AN IMPACT TO HUMAN HEALTH

- THERE IS AN IMPACT TO THE ENVIRONMENT
 THERE IS A FIRE, EXPLOSION, OR SERTY HAZARD
 A SPILL IS NOT IMMEDIATELY CLEANED UP
 THE SPILL WAS MORE THAN THE REPORTABLE QUANTITY OF 1 GALLON OF A
 PETROLEUM PRODUCT

THE REPORT SHOULD BE FILED WITH THE STATE OF MINNESOTA, ALL REPORTS SHOULD RE FILED WITHIN 24 HOURS OF A SPILL OCCURRING

THE REPORTABLE QUANTITY FOR HAZARDOUS MATERIALS CAN BE FOUND IN 40 CFR 302 AND

TO MINIMIZE THE POTENTIAL FOR A SPILL OF PETROLEUM PRODUCT OR HAZARDOUS MATERIALS TO COME IN CONTACT WITH STORMWATER, THE FOLLOWING STEPS SHALL BE

- 1) ALL MATERIALS WITH HAZARDOUS PROPERTIES, SUCH AS PESTICIDES, PETROLEUM ALL MATERIALS WITH INAZARDAUS PROPERTIES, SUCH AS PESTRUEES, PETROLEUM PRODUCTS, FERTILIZERS, SOAPS, DETERGIENTS, CONSTRUCTION CHEMICALS, ACIDS, BASES, PAINTS, PAINT SOLVENTS, ADDITIVES FOR SOIL STABILIZATION, CONCRETE, CURING COMPOUNDS AND ADDITIVES, FOR, SHALL BE STORED IN A SECURE LOCATION, UNDER COVER AND IN APPROPRIATE, TIGHTLY SEALED CONTAINERS WHEN NOT IN USE.
- 2) THE MINIMUM PRACTICAL QUANTITY OF ALL SUCH MATERIALS SHALL BE KEPT ON THE JOB SITE AND SCHEDULED FOR DELIVERY AS CLOSE TO TIME OF USE AS PRACTICAL
- 3) A SPILL CONTROL AND CONTAINMENT KIT (CONTAINING FOR EXAMPLE ARSORBENT MATERIAL SUCH AS KITTY LITTER OR SAWDUST, ACID, BASE, NEUTRALIZING AGENT, BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, PLASTIC AND METAL TRASH
- BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, PHASTIC AND METAL TRASH CONTAINERS, ETC., SHALL BE PROVIDED AT THE CONSTRUCTION SITE AND ITS LOCATIONS, SHALL BE IDENTIFIED WITH LEGIBLE SIGNAGE AND SHOWN ON SITE MAPS. A THE SHILL CONTROL AND CONTROL AND CONTROL AND CONTROL AND CONTROL PROPERTY TO CONTAIN A SPILL PROM THE LAKEST QUANTITIES AND APPROPRIATE CONTENT TO CONTAIN A SPILL PROM THE LAKEST QUANTITIES OF PRODUCTS STORED OF THE SITE AT ANY GIVEN THE ANTICIPATED. & CONTENTS SHALL BE INSPECTED DAILY DURING THE DAILY STORMWATER INSPECTION.
- 4) ALL PRODUCTS SHALL BE STORED IN AND USED FROM THE ORIGINAL CONTAINER WITH THE ORIGINAL PRODUCT LABEL. CONTAINERS MUST BE STORED IN A MANNER TO PROTECT THEM FROM THE ELEMENTS AND INCIDENTAL DAMAGE.
- 5) ALL PRODUCTS SHALL BE USED IN STRICT COMPLIANCE WITH INSTRUCTIONS ON THE
- 6) THE DISPOSAL OF EXCESS OR USED PRODUCTS SHALL BE IN STRICT COMPLIANCE WITH INSTRUCTIONS ON THE PRODUCT LABEL AND REGULATIONS.

BRYANT LAKE MILE RADIUS SITE

VICINITY N.T.S.



CITY APPROVED DEWATERING/PUMPING PLAN IS REQUIRED PRIOR TO ANY PUMPING ACTIVITY

RUNOFF VALUES			
	2-YEAR	10-YEAR	100-YEAR
PRE-DEVELOPMENT CONDITIONS	7.09 CFS	10.32 CFS	17.43 CFS
POST-DEVELOPMENT CONDITIONS	6.82 CFS	10.00 CFS	16.93 CFS

PROPERTY SUMMARY	
TOTAL LOD AREA	2.20 AC
TOTAL PROPERTY AREA	3.44 AC
PRE-CONSTRUCTION IMP	2.57 AC (74.7%)
POST-CONSTRUCTION IMP	2.51 AC (73.0%)

PHASE 1 BMP QUANTITIES		
INLET PROTECTION	10 EA	
ROCK CONSTRUCTION ENTRANCE	1 EA	
SILT FENCE	865 LF	
BIOROLL	640 LF	
EROSION CONTROL BLANKET	1,880 SF	
SAFETY FENCE	- LF	
DISTURBED AREA	2.20 ACRES	
IMPERVIOUS AREA	2.51 ACRES	
RECEIVING WATER	LAKE IDLEWILD & ANDERSON LAKES	

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SITE PLAN NOTES

- REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF STOOPS, TRUCK DOCKS, TRASH ENCLOSURES & PRECISE BUILDING DIMENSIONS. REFER TO THE SITE ELECTRICAL PLAN FOR LOCATIONS OF PROPOSED LIGHT POLES, CONDUITS, AND ELECTRICAL EQUIPMENT.

- LINLESS OTHERWISE NOTED, THE CONTRACTOR SHALL BE RESPONSIBLE RED.CATING EXISTING EXISTING SIZE IMPROVEMENTS THAT CONFLICT WITH THE RED.CATING EXISTING SIZE IMPROVEMENTS THAT CONFLICT WITH THE REPORT OF THE RESPONSION DITLIFIES FICE PERFORM WORK IN ACCORDANCE WITH GOVERNING AUTHORITIES REQUEREMENTS AND PROJECT SIZE WORK SPECIFICATIONS. COST SHALL BE INCLUDED IN BASE BID.
- MONUMENT SIGN(S) ARE DETAILED ON THE ARCHITECTURAL PLANS AND ARE SHOWN FOR GRAPHICAL & INFORMATIONAL PURPOSES ONLY. CONTRACTOR TO VERIFY SIGN DIMENSIONS, LOCATION AND REQUIRED PERMITS WITH THE OWNER

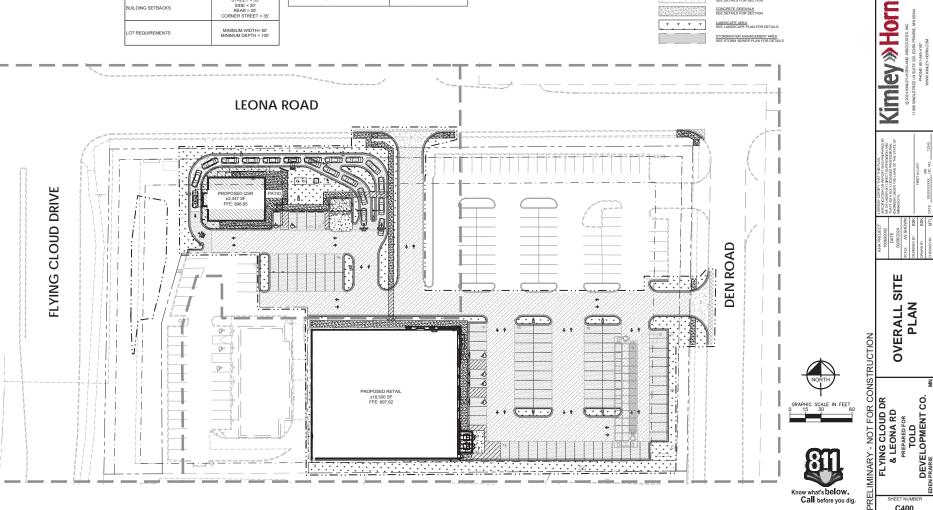
PROPERTY SUMMARY		
TOTAL PROPERTY AREA	3.44 AC / 149,849 SF	
DISTURBED AREA	2.20 AC / 96,090 SF	
EXISTING IMPERVIOUS AREA	2.57 AC / 112,017 SF / 74.75%	
EXISTING PERVIOUS AREA	0.87 AC / 37,832 SF / 25.25%	
PROPOSED IMPERVIOUS AREA	2.51 AC / 109,429 SF / 73.03%	
PROPOSED PERVIOUS AREA	0.93 AC / 40,420 SF / 27.97%	
NET DECREASE IN IMPERVIOUS AREA	0.06 AC / 2,588 SF	
SITE DATA		
EXISTING ZONING	C-REG-SER REGIONAL SERVICE COMMERCIAL	
PROPOSED LAND USE	DRIVE THROUGH, RETAIL	
PARKING SETBACKS	SIDE/REAR = 10' STREET = 10'	
BUILDING SETBACKS	STREET = 35' SIDE = 20' REAR = 20' CORNER STREET = 35'	

BUILDING SETBACKS OT REQUIREMENTS

BUILDING DATA SUMMARY		
AREAS		
QSR BUILDING AREA	2,447 SF	
RETAIL BUILDING AREA	18,500 SF	
BAR & FAR	0.14	
PARKING		
REQUIRED TYPE 1 RESTAURANT PARKING	20 SPACES @ 1/2.5 SEATS	
REQUIRED RETAIL PARKING	93 SPACES @ 5/1,000 SF	
TOTAL REQUIRED PARKING	113 SPACES	
TOTAL PROPOSED PARKING	171 SPACES	
ADA STALLS REQ'D / ADA STALL PROVIDED	5 STALLS / 6 STALLS	

PARKING	
QSR PROVIDED PARKING	21 SPACES @ 8.58/1,000 SF
RETAIL PROVIDED PARKING	150 SPACES @ 8.11/1,000 SF
PARKING SUMMARY EXISTING VS PROPOSED PARKING	
TOTAL PROPOSED PARKING	171 SPACES

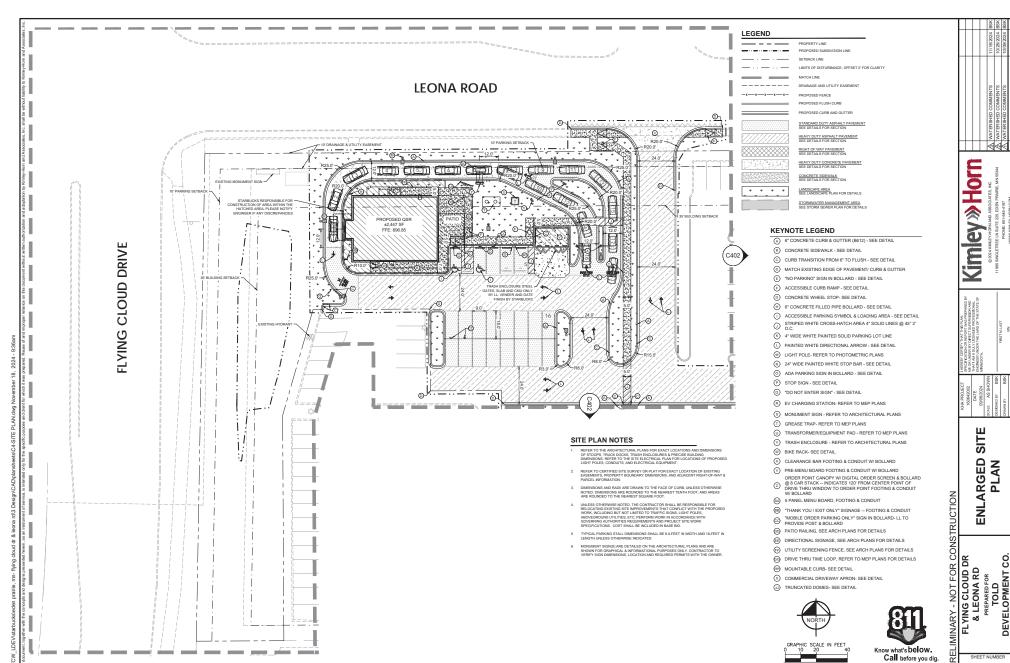
LEGEND		
	PROPERTY LINE	
	SETBACK LINE	
	LIMITS OF DISTURBANCE, OFFSET 2' FOR CLARITY	
	MATCH LINE	
	DRAINAGE AND UTILITY EASEMENT	
-x-x-x-x-	PROPOSED FENCE	
	PROPOSED FLUSH CURB	
	PROPOSED CURB AND GUTTER	
	STANDARD DUTY ASPHALT PAVEMENT SEE DETAILS FOR SECTION	
	HEAVY DUTY ASPHALT PAVEMENT SEE DETAILS FOR SECTION	
	RIGHT OF WAY PAVEMENT SEE DETAILS FOR SECTION	
144430M	HEAVY DUTY CONCRETE PAVEMENT SEE DETAILS FOR SECTION	
	CONCRETE SIDEWALK SEE DETAILS FOR SECTION	
* * * *	LANDSCAPE AREA SEE LANDSCAPE PLAN FOR DETAILS	
	STORMWATER MANAGEMENT AREA SEE STORM SEWER PLAN FOR DETAILS	



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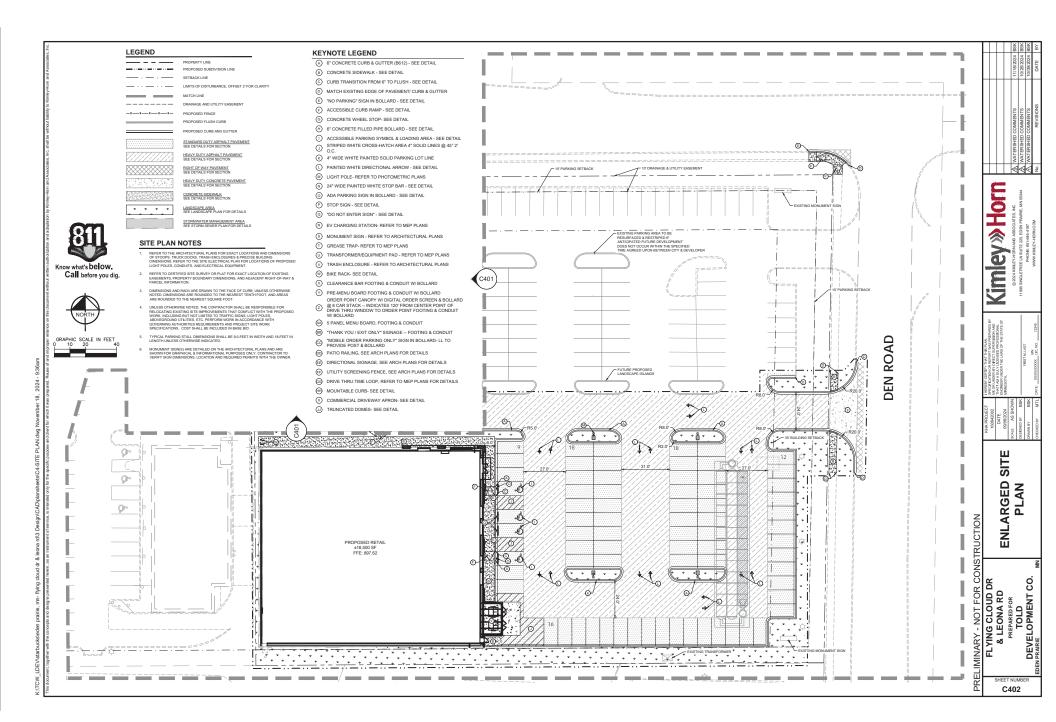
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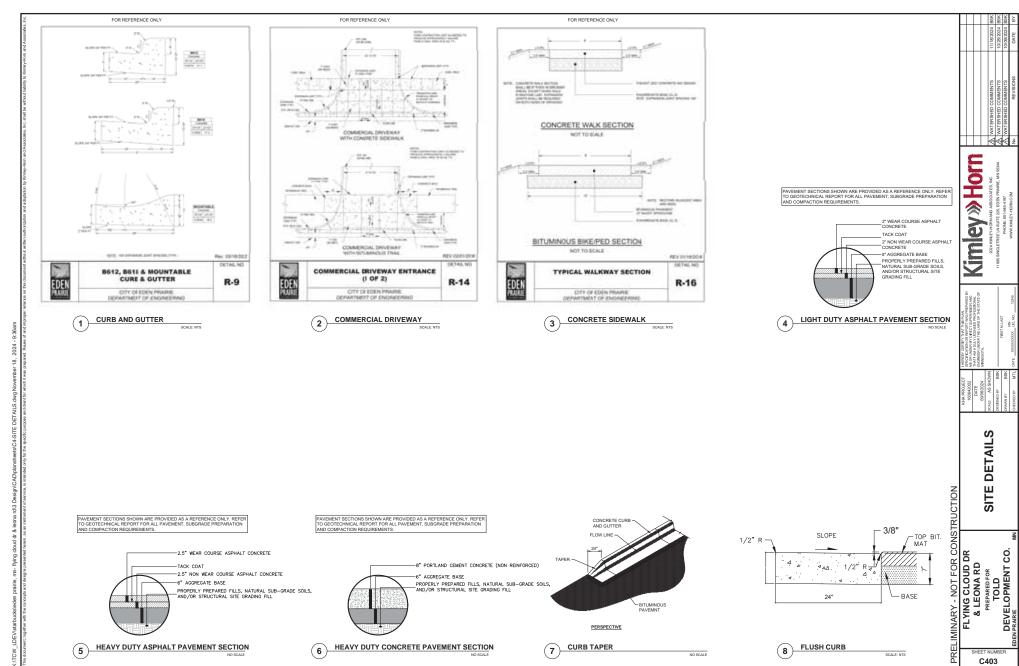
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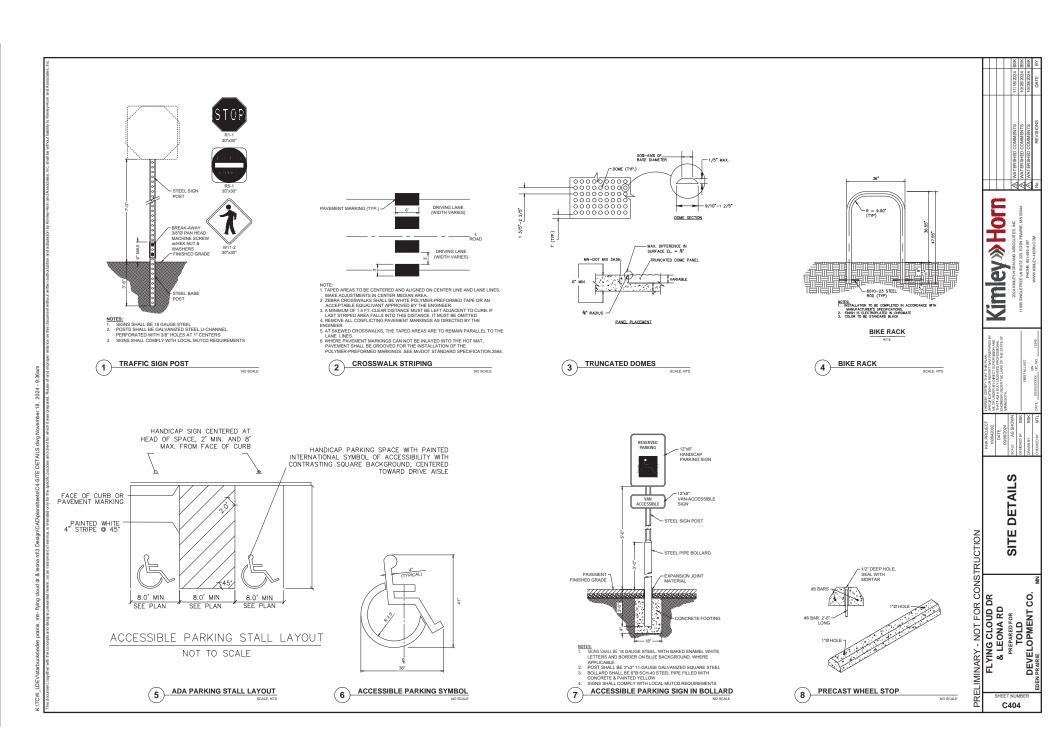


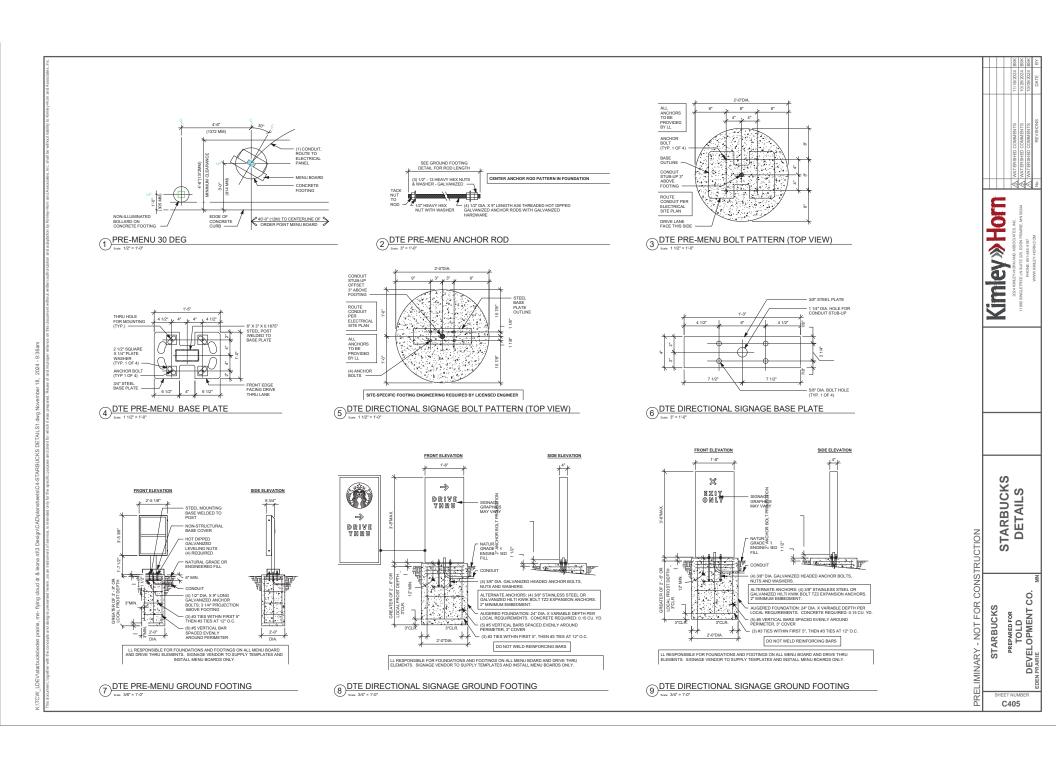
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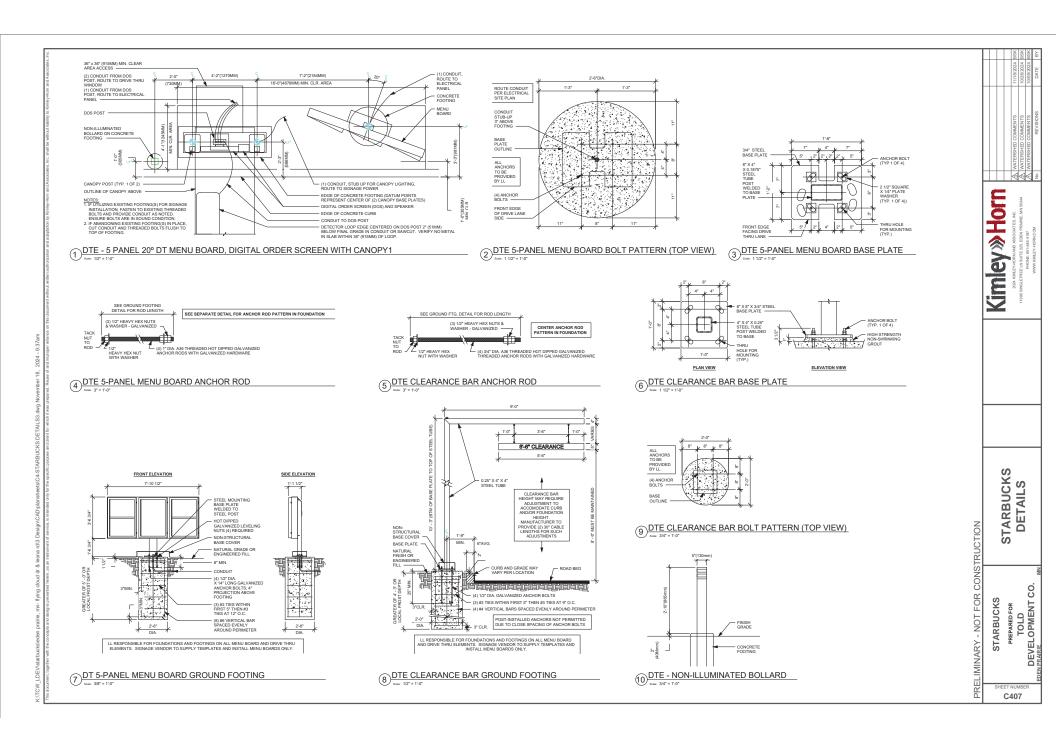
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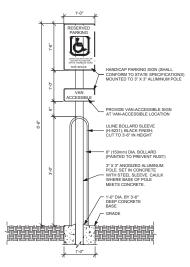




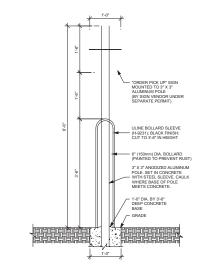




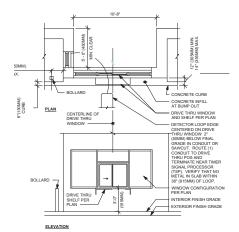








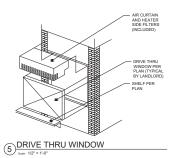
2) DETAIL - MOP SIGN W/ BOLLARD & BOLLARD SLEEVE1



3 DTE - DRIVE THRU WINDOW BUMP-OUT







STARBUCKS DETAILS

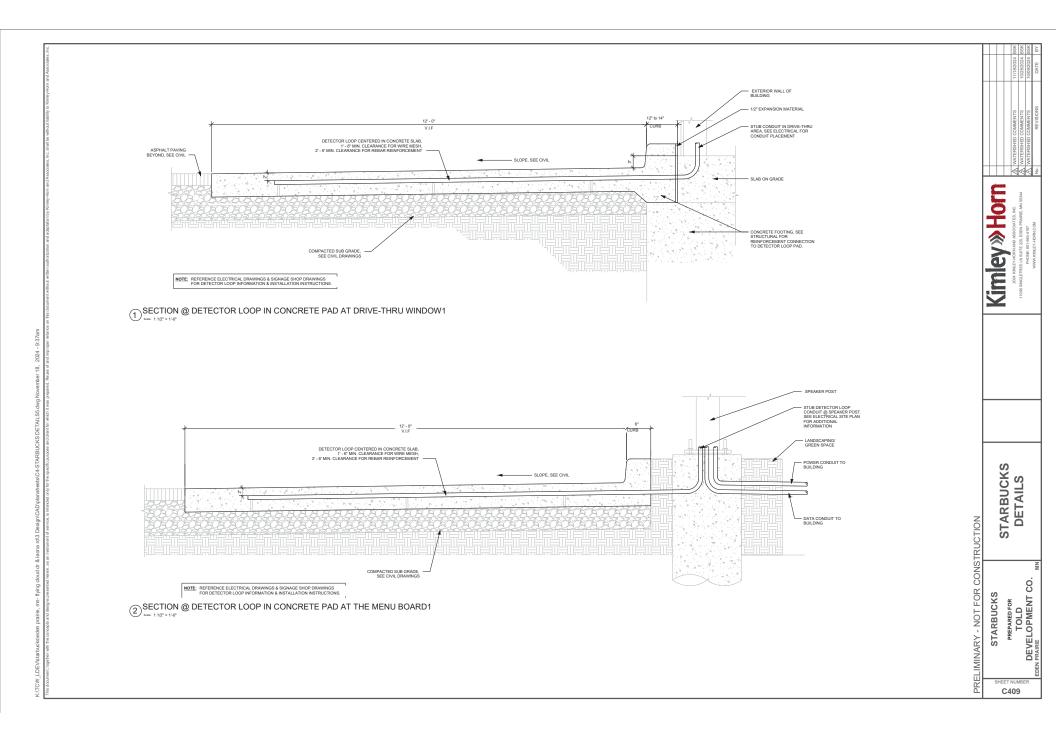
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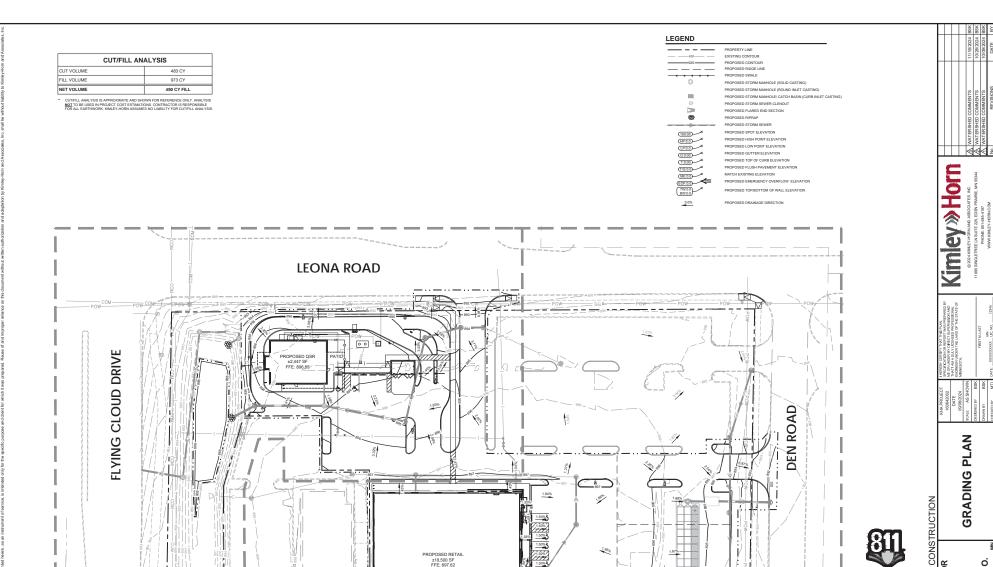
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STARBUCKS

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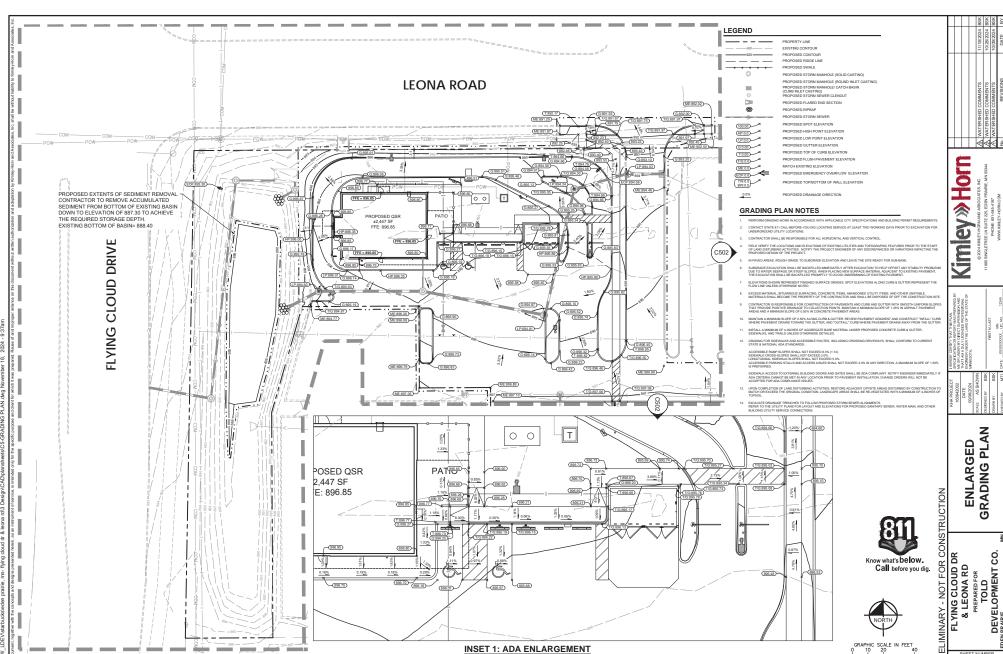




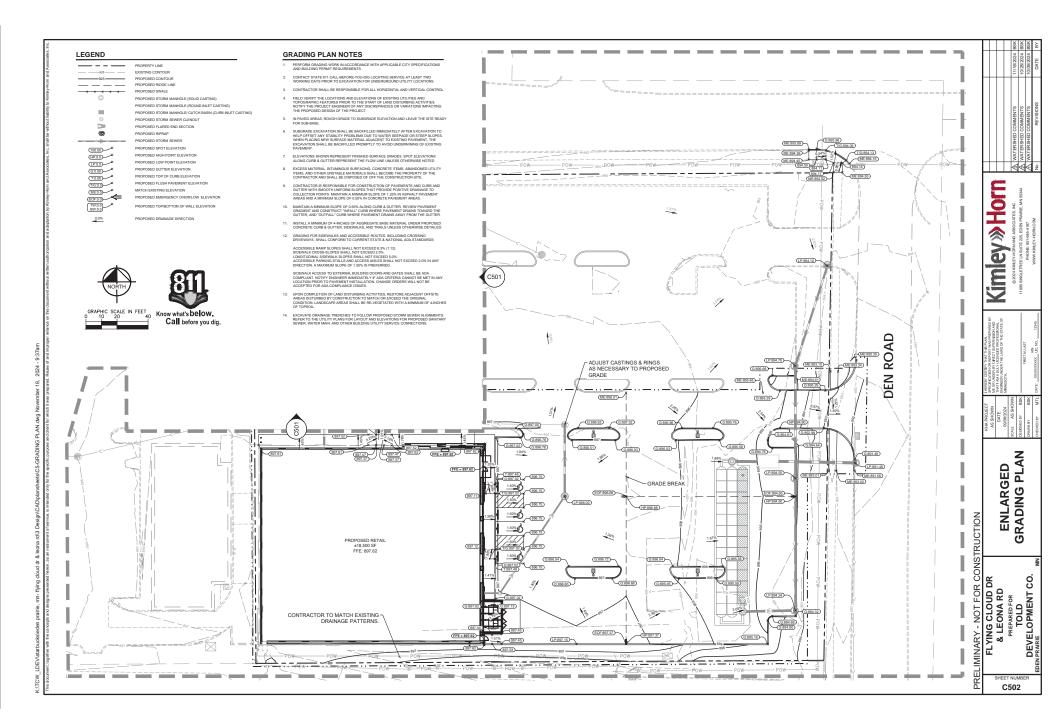
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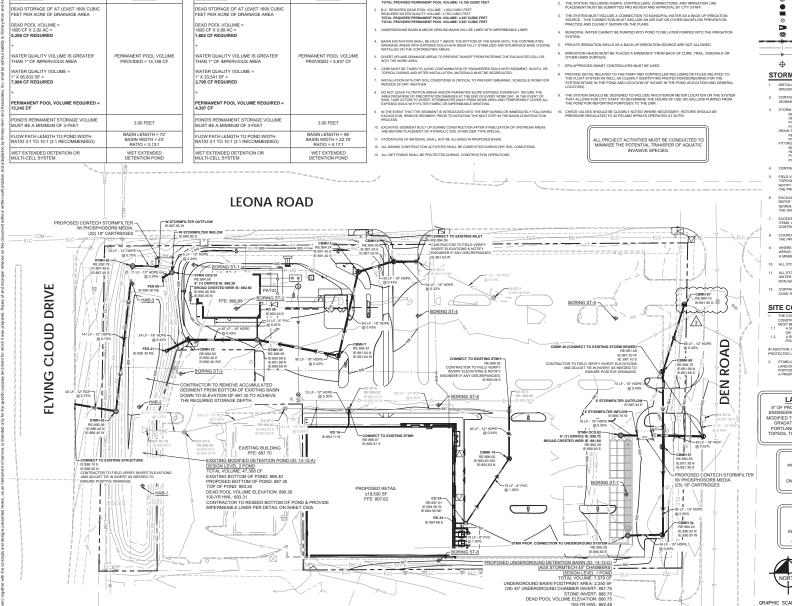


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SCALE: 1"=10'





STORMWATER MANAGEMENT NOTES

STORMWATER POND REQUIREMENTS (B-2)

PROPOSED

STORMWATER POND REQUIREMENTS (B-1)

PROPOSED

REQUIREMENT

REQUIREMENT

STORMWATER HARVESTING SYSTEMS REQUIREMENTS LEGEND

PROPERTY LINE PROPOSED STORM MANIJOLE (POLIND INLET CASTING

PROPOSED STORM MANHOLE/ CATCH BASIN (CURB INLET CASTIN

PROPOSED STORM SEWER CLENOUT PROPOSED FLARED END SECTION

PROPOSED RIPRAF PROPOSED STORM SEWER PROPOSED SANITARY SEWER

STORM SEWER NOTES

- INSTALL STORM SEWER IN ACCORDANCE WITH APPLICABLE CITY OR STATE SPECIFICATIONS, STATE PLUMBING CODE, AND BUILDING PERMIT REQUIREM
- STORM SEWER PIPE SHALL BE:

STOM SWEAR PRE SHALL BE
REP. ARTIM CO.F. FEBA
PICK. ARTIM 0.2729
PICK. SEMA, BRAND D.1786, D.2685, F.794
DOWN TELL SHALL BB.
PICK. ARTIM 0.2729
PITTIMES SHALL BB.
SHALL BB.
SHALL BB.
SHALL BB.
PICK. SEMA, SHALL D.2729
PICK. CO.B. ARTIM 0.2729, J.00415 PER ASTIM 0.3912
PICK. SEMA, BRAND 0.2964, T.9964, F.1989
PICK. SEMA, BRAND 0.2964, T.9964, F.1989

- FIELD VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AND TOPOGRAPHIC FEATURES PRIOR TO THE START OF LAND DISTURBING ACTIVITIES. NOTIFY THE PROJECT ENGINEER OF ANY DISCREF
- EXCAVATE DRAINAGE TRENCHES TO FOLLOW PROPOSED STORM SEWER ALIGNMENTS. REFER TO THE UTILITY PLANS FOR LAYOUT AND ELEVATIONS FOR PROPOSED SANITAR'S SEWER, WATER MAIN, AND OTHER BUILDING UTILITY SERVICE CONNECTIONS. REFER TO THE GRADING PLAN FOR DETAILED SURFACE ELEVATIONS.

- A MINIMUM OF 5-FEET IN WIDTH, CENTERED ON THE PIPE.
- 10. ALL STORM SEWER PIPE JOINTS SHALL BE WATER-TIGHT CONNECTIONS
- ALL STORM SEWER PIPE CONNECTIONS TO MANHOLES SHALL BE GASKETED AND WATER TIGHT. BOOTED COUPLERS AT THE STRUCTURE OR A WATER STOP WITH NON-SHRINK GROUT MAY BE USED IN ACCORDANCE WITH LOCAL CODES.
- CONTRACTOR SHALL AIR TEST ALL STORM SEWER PIPE IN ACCORDANCE WIT CODE REQUIREMENTS

SITE COMPACTION NOTES

- THE CONTRACTOR SHALL ENSURE ALL SOIL SURFACE COMPACTED DURING CONSTRUCTION AND REMAINING PERVIOUS UPON COMPLETION OF CONSTRUCTION CETHICITION AND REMAINED PERVIOUS UPON COMPLETIES UPON COMPLETIES UPON COMPLETIES UPON COMPLETIES UPON COMPACTION TESTING PRESSURE OF LESS THAN 1,400 KLOPASCAL OR 200 POLIUSE PER SOLUCIAE BOKE IN THE UPPER IS UNCIES OF SOL

STABILIZATION OF DISTURBED AREAS MUST BEGIN IMMEDIATELY WHENEVER LAND-DISTURBING ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED ON AN PORTION OF THE SITE AND WILL NOT RESUME WITHIN SEVEN CALENDAR DAYS ON

LANDSCAPE AREA SPECIFICATIONS

8" OF PROPOSED DECOMPACTED TOPSOIL ABOUTE 12" REHABILITATED INCINEERED SOIL MEDIA MINOTO SPEC 3877 ELITE TO PSOIL BORROW, MODIFIED TO HAVE A MINTURE BY VOLUME OF 80% SAND COVER MEETING GRADATION REQUIREMENTS OF SPEC. 3128 "THE AGGREGATE OF PORTLAND CEMENT CONCRETE" AND 20% MINDOT GRADE 2 COMPOST. TOPSOIL TO CONTAIN AT LEAST 5% ORGANIC CONTENT. CONTRACTOR IS TO NOT COMPACT PROPOSED LANDSCAPE AREAS

IRRIGATION USEAGE METER

PROPOSED ABOVE GROUND BASIN AND UNDERGROUND BASIN WILL BE USED FOR IRRIGATION REUSE. AN IRRIGATION USAGE METER WILL BE PROVIDED FOR ON-SITE MEASUREMENTS AND IS REQUIRED FOR ANNUAL DOCUMENTATION TO THE WATERSHED DISTRICT

CITY NOTE

OR OTHER OPENING TO BE PROVIDED FOR EACH ROW OF CHAMBERS FOR IMAINTENANCE. THE UNDERGROUND STORM SYSTEM MUST BE INSPECTED AND INSTALLATION CERTIFIED TO THE BUILDING & INSPECTIONS DIVISION



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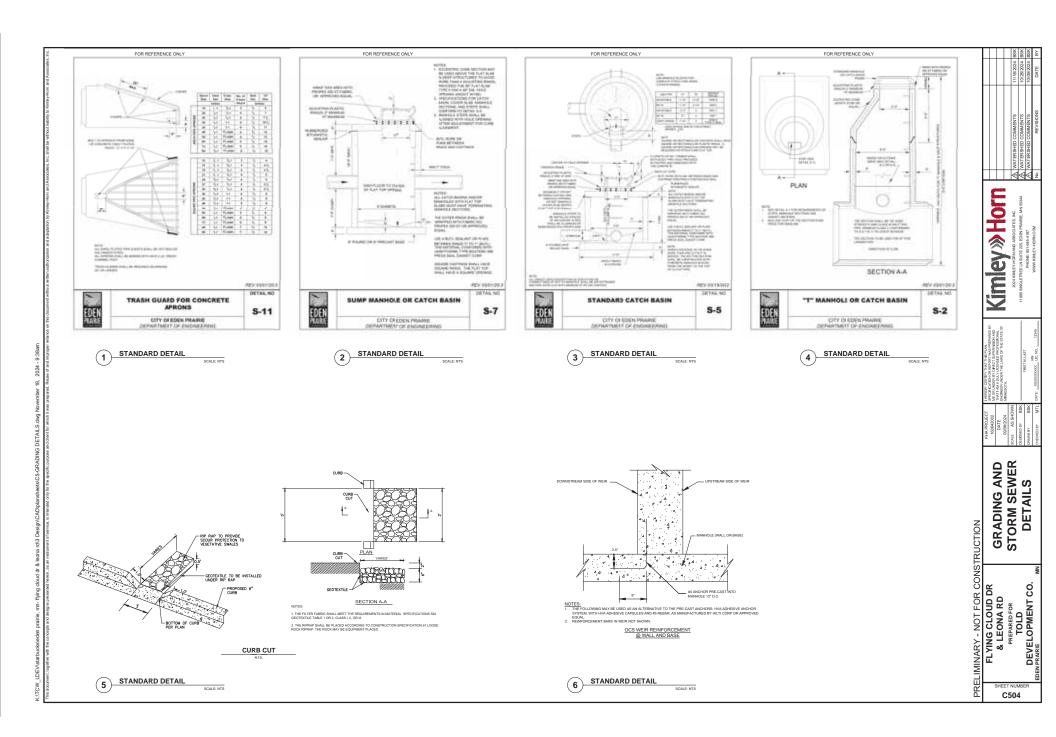
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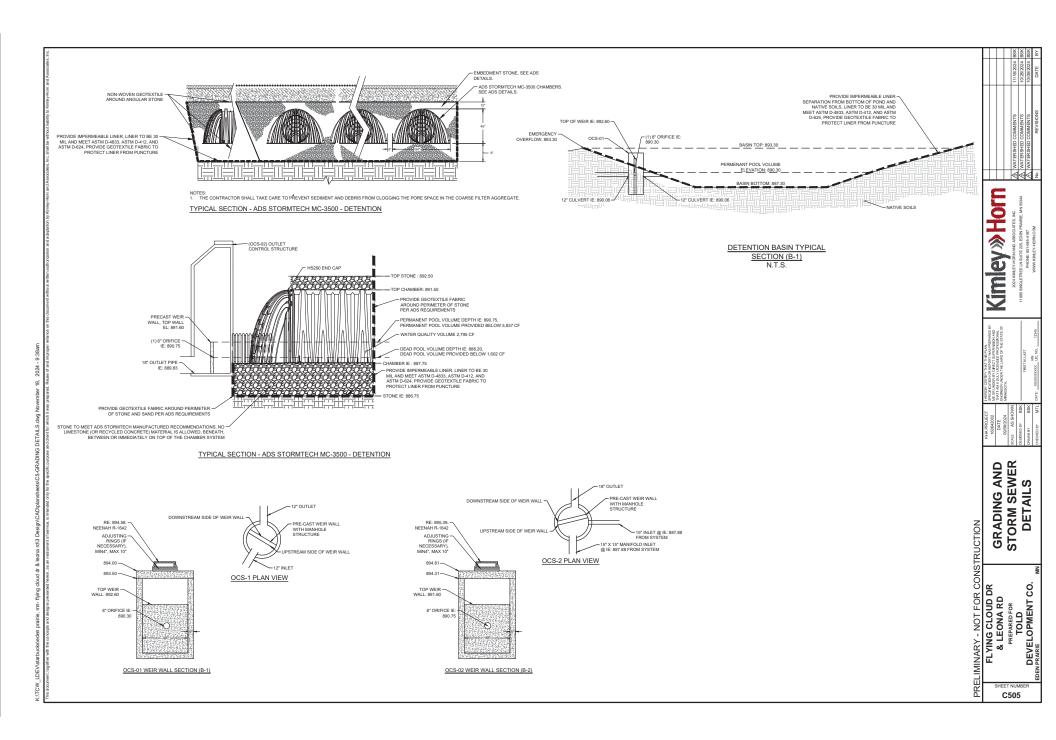
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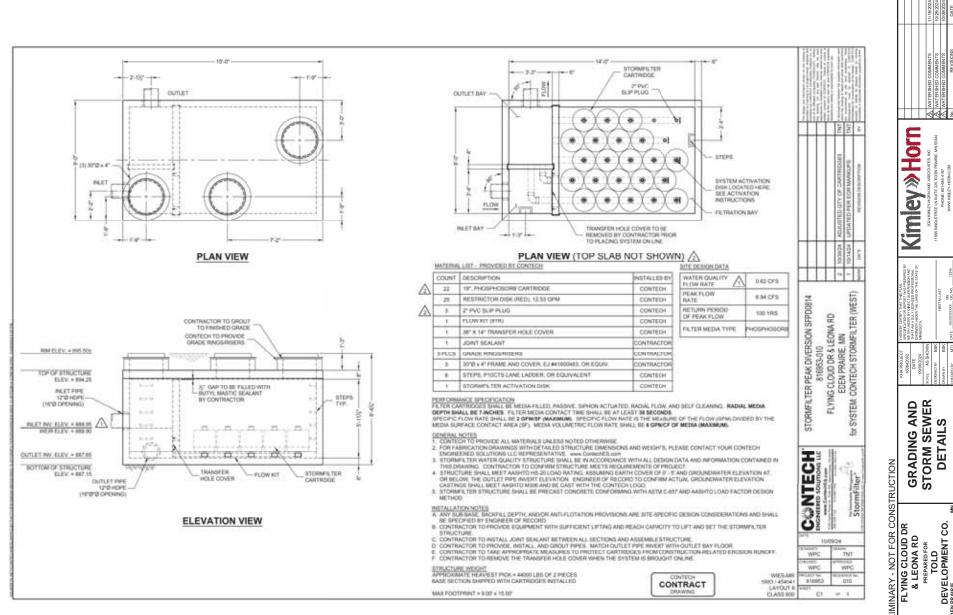
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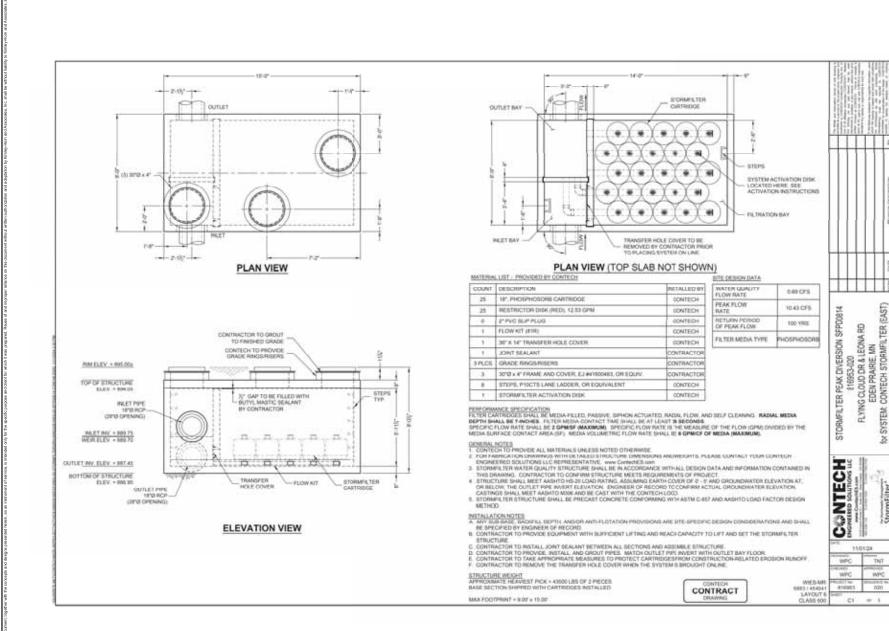
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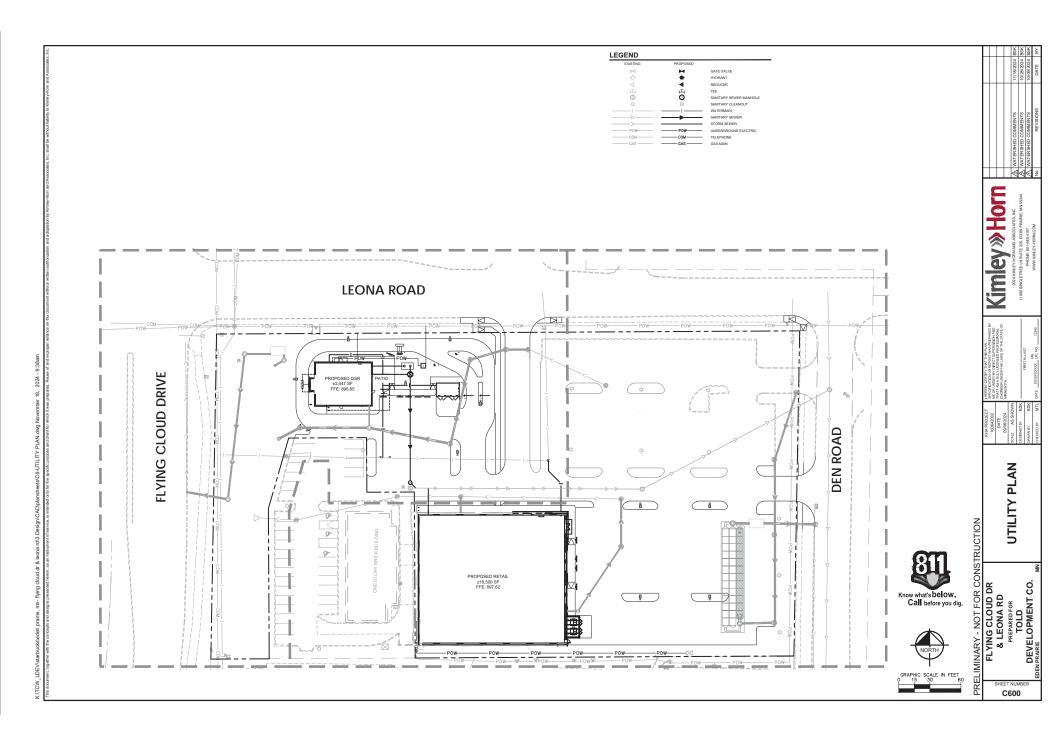
GRADING AND STORM SEWER DETAILS

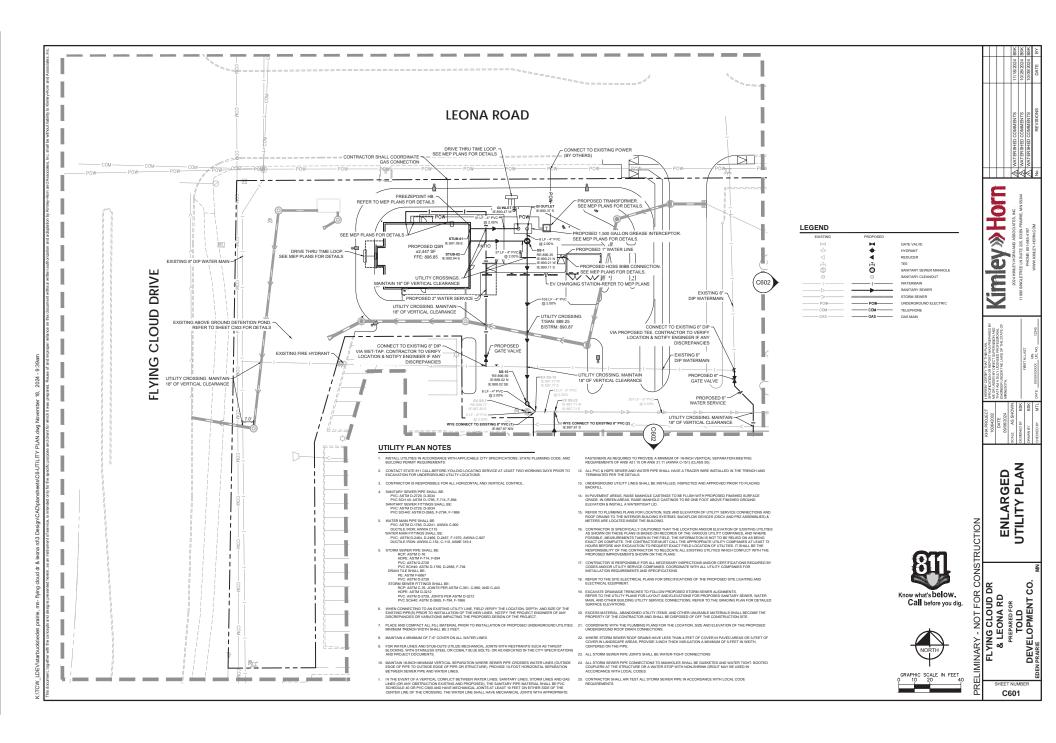
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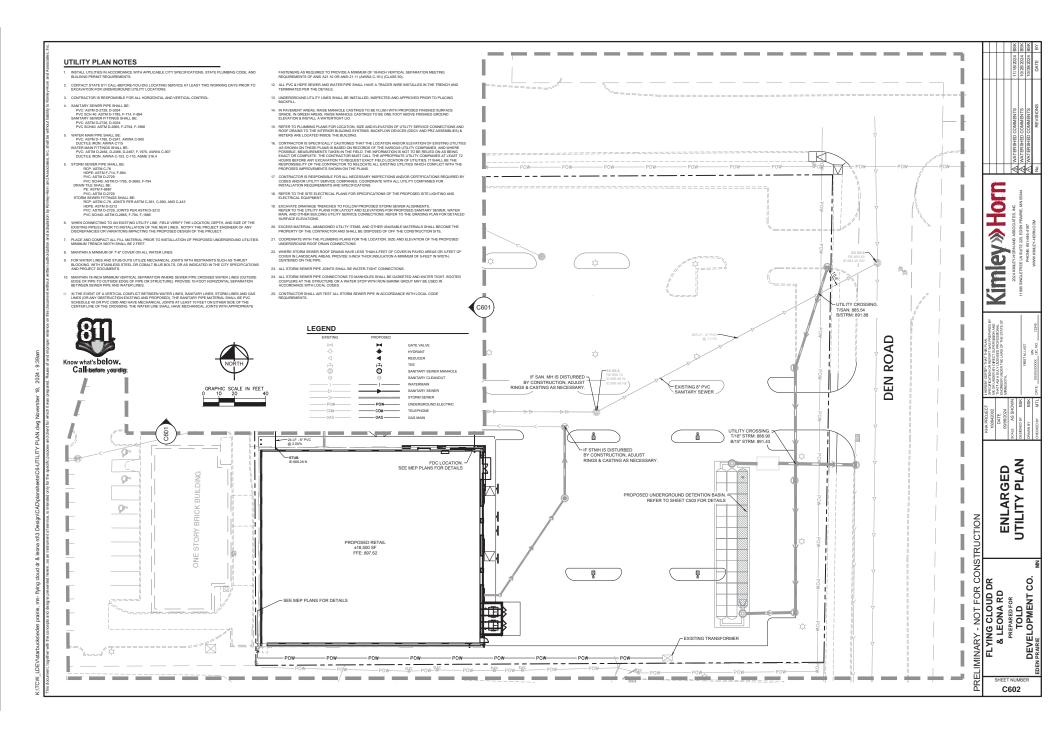
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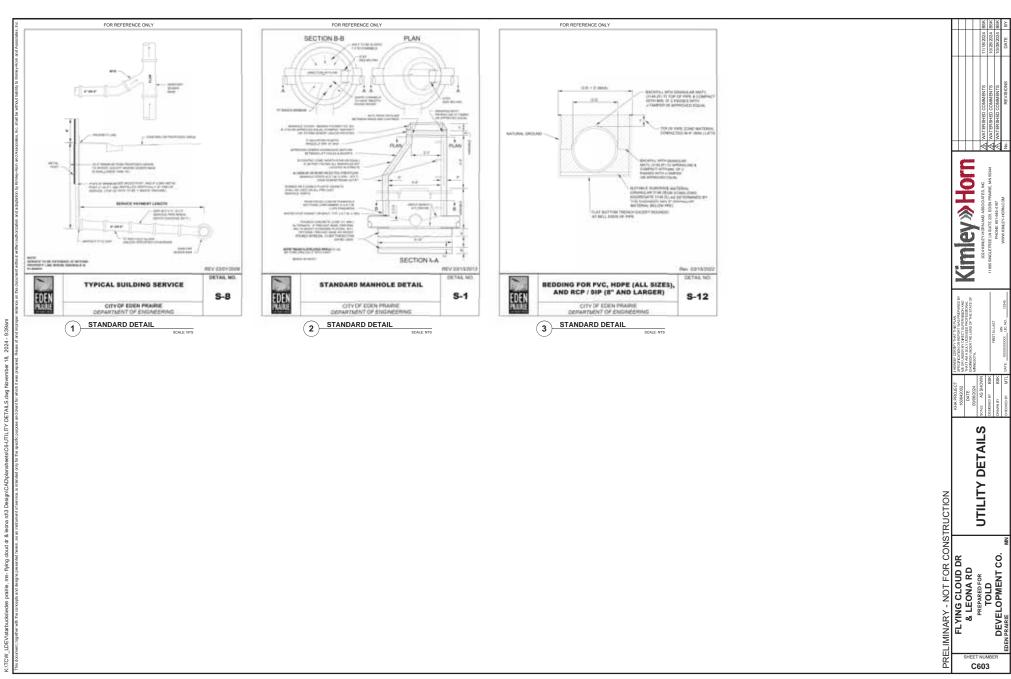
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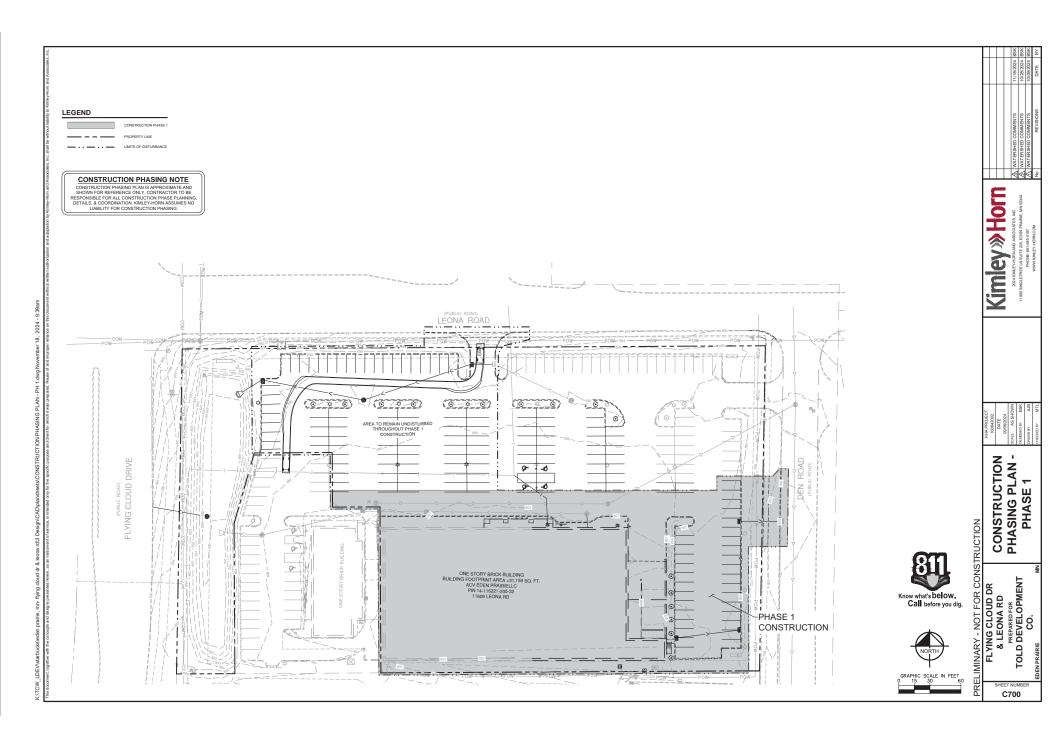
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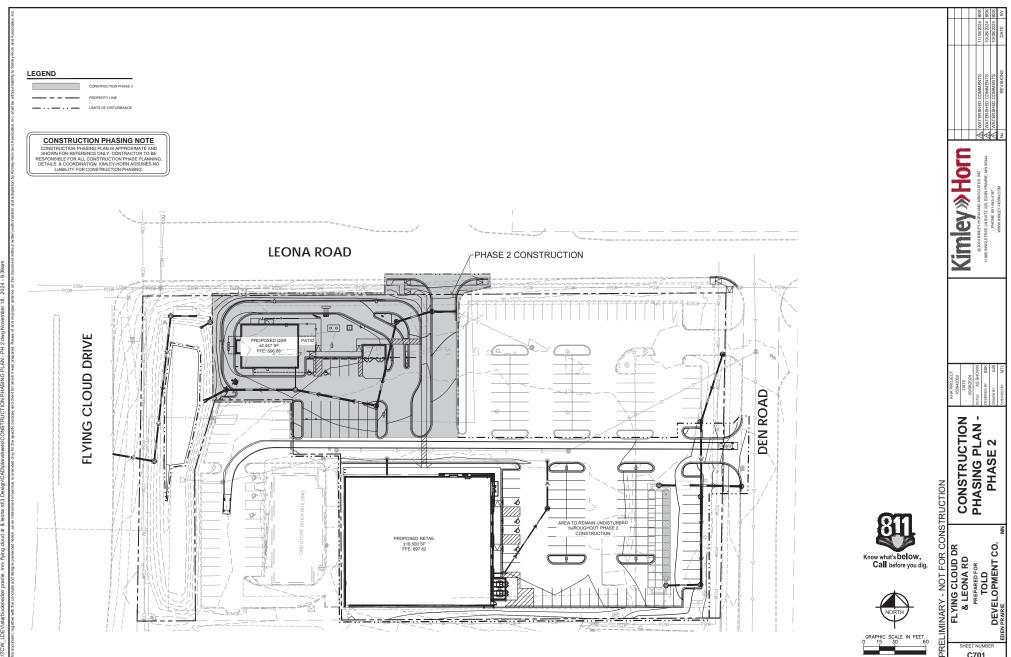




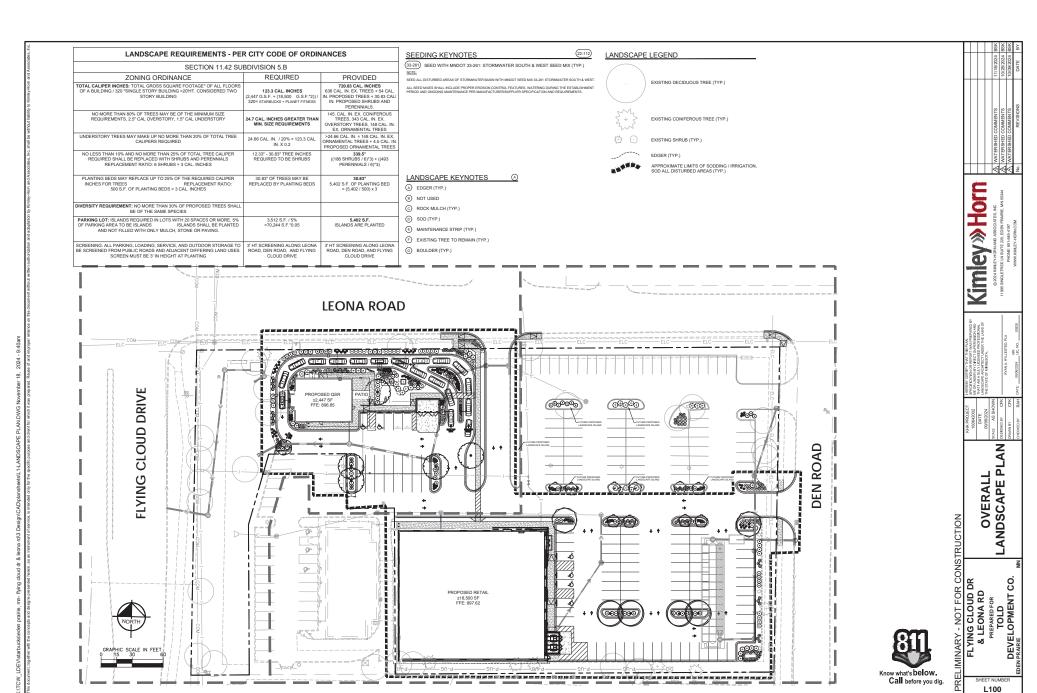


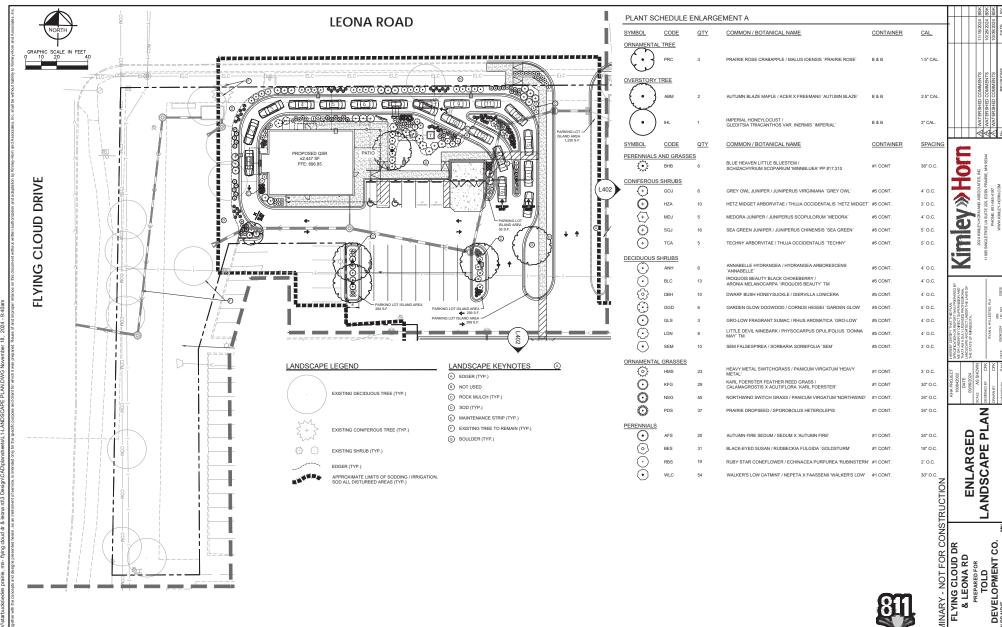






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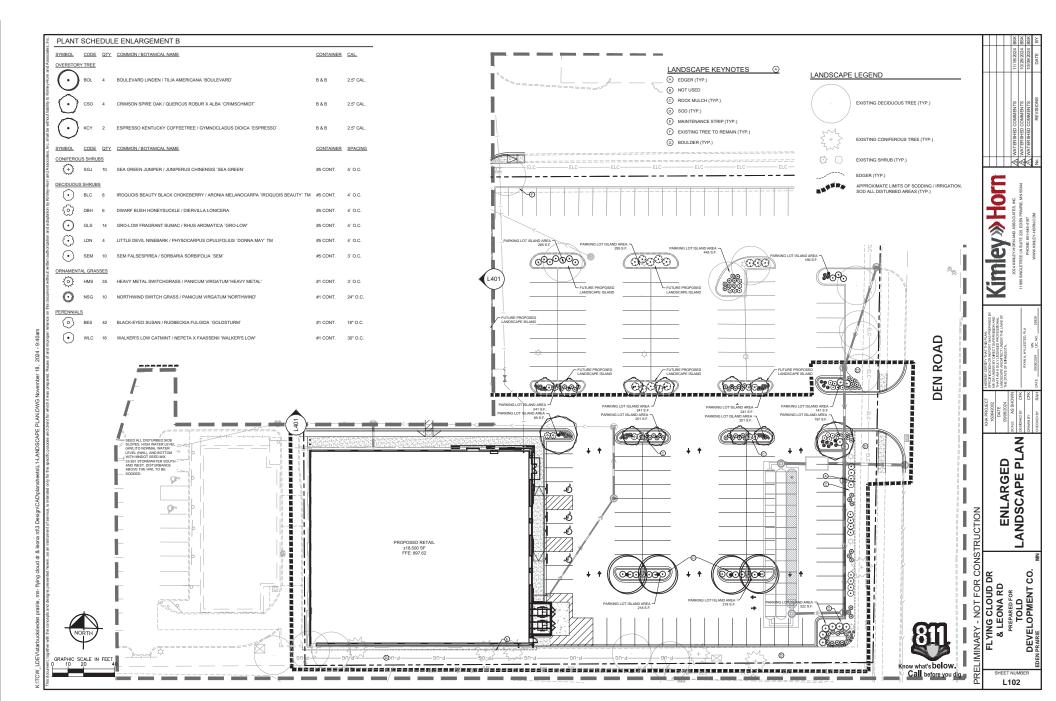


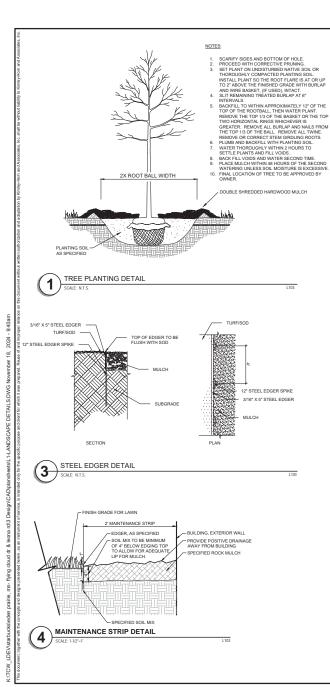


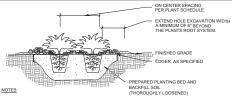
Know what's below.

FLYING CLOUD D & LEONA RD PREPARED FOR

L101







SCARIFY SIDES AND BOTTOM OF HOLE

PLANT SCHEDULE

WLC 58 WALKER'S LOW CATMINT

PROCEED WITH CORRECTIVE PRUNING OF TOP AND ROOT.
REMOVE CONTAINER AND SCORE OUTSIDE OF SOIL MASS TO REDIRECT AND PREVENT CIRCLING FIBROUS ROOTS. REMOVE OR CORRECT STEM GIRDLING ROOTS. PLUMB AND BACKFILL WITH PLANTING SOIL.

WATER THOROUGHLY WITHIN 2 HOURS TO SETTLE PLANTS AND FILL VOIDS. BACK FILL VOIDS AND WATER SECOND TIME. PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE. MIX IN 3-4" OF ORGANIC COMPOST.

SHRUB / PERENNIAL PLANTING DETAIL

2

PLANT	SCHE	DUL	E				
		OTY	COMMON NAME	BOTANICAL NAME	CONTAINER	CAL	
	PRC	,	PRAIRIE ROSE CRABAPPLE	MALUS ICENSIS 'PRAIRE ROSE'	8 & B	1.5° CAL.	
OVERSTOR		5	AUTUMN BLAZE MAPLE	ACER X FREEMANII 'AUTUMN BLAZE'	848	2.5" CAL.	
\odot	BOL	4	BOULEVARD LINDEN	TILIA AMERICANA 'BOULEVARD'	8 & B	2.5" CAL	
\odot	CSO	10	CRIMSON SPIRE DAK	QUERCUS ROBUR X ALBA "CRIMSCHMIDT"	8 & 8	2.5" CAL.	
\odot	KCY	2	ESPRESSO KENTUCKY COFFEETREE	GYMNOCLADUS DIOICA 'ESPRESSO'	888	2.5" CAL.	
SYMBOL	_	_	COMMON NAME	BOTANICAL NAME	CONTAINER	SPACING	
CONFERG	GOJ	6	GREY OWL JUNIPER	JUNIPERUS VIRGINIANA 'GREY OWL'	#5 CONT.	4 O.C.	
Ξ.	HZA	10	HETZ MIDGET ARBORVITAE	THUA OCCIDENTALIS 'HETZ MIDGET'	#5 CONT.	3° O.C.	
0	MDJ	5	MEDORA JUNIPER	JUNIPERUS SCOPULORUM 'MEDORA'	#5 CONT.	4 O.C.	
0	SGJ	25	SEA GREEN JUNIPER	JUNIPERUS CHINENSIS 'SEA GREEN'	#5 CONT.	5" O.C.	
0	TCA	5	TECHNY ARBORVITAE	THUJA OCCIDENTALIS TECHNY	#5 CONT.	5° O.C.	
DECIDUOUS SHRUBS							
\odot	ANH	6	ANNABELLE HYDRANGEA	HYDRANGEA ARBORESCENS 'ANNABELLE'	#5 CONT.	4° 0.C.	
\odot	BLC	21	IROQUOIS BEAUTY BLACK CHOKEBERRY	ARONIA MELANOCARPA "IROQUOIS BEAUTY" TM	#5 CONT.	4° 0.C.	
	DBH	20	DWARF BUSH HONEYSUCKLE	DIERVILIA LONICERA	#5 CONT.	4 O.C.	
0	GGD	19	GARDEN GLOW DOGWOOD	CORNUS HESSEI GARDEN GLOW	#5 CONT.	5° O.C.	
\odot	GLS	32	GRO-LOW FRAGRANT SUMAC	RHUS AROMATICA 'GRO-LOW'	#5 CONT.	4'0.0.	
\odot	LDN	12	LITTLE DEVIL NINEBARK	PHYSOCARPUS OPULIFOLIUS 'DONNA MAY' TM	#5 CONT.	4° 0.C.	
\odot	SEM	20	SEM FALSESPIREA	SORBARIA SORBIFOLIA "SEM"	#5 CONT.	3° O.C.	
ORNAMENTAL GRASSES							
٥	HMS	80	HEAVY METAL SWITCHGRASS	PANICUM VIRGATUM HEAVY METAL*	#1 CONT.	2. O.C.	
0	KFG	3	KARL FOERSTER FEATHER REED GRASS	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	#1 CONT	30° O.C.	
0	NSG	69	NORTHWIND SWITCH GRASS	PANICUM VIRGATUM NORTHWIND	#1 CONT.	24° O.C.	
0	PDS	37	PRARIE DROPSEED	SPOROBOLUS HETEROLEPIS	#1 CONT.	24" O.C.	
PERENNIALS							
0	AAK	5	ALIVE AND KICKING ASTILBE	ASTILBE X 'ALIVE AND KICKING'	#1 CONT		
0	BES	93	BLACK-EYED SUSAN	RUDBECKIA FULGIDA 'GOLDSTURM'	#1 CONT.	18" O.C.	
\odot	RBS	29	RUBY STAR CONEFLOWER	ECHINACEA PURPUREA RUBINSTERN	#1 CONT.	2' O.C.	

NEPETA X FAASSENII WALKER'S LOW

BHB 6 BLUE HEAVEN LITTLE BLUESTEM SCHIZACHYRIUM SCOPARIUM WINNBLUEA' PP #17,310 #1 CONT 36" O.C.

#1 CONT. 30" O.C.

LANDSCAPE NOTES

PLANTING

- CONTACT COMMON GROUND ALLIANCE AT 811 OR CALL811.COM TO VERIFY LOCATIONS OF ALI UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF ANY PLANTS OR LANDSCAPE MATERIAL
- 2. ACTUAL LOCATION OF PLANT MATERIAL IS SUBJECT TO FIELD AND SITE CONDITIONS.
- NO PLANTING WILL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
- ALL SUBSTITUTIONS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO SUBMISSION OF ANY BID AND/OR QUOTE BY THE LANDSCAPE CONTRACTOR.
- PROVIDE TWO YEAR GUARANTEE OF ALL PLANT MATERIALS. THE GUARANTEE BEGINS ON THE DATE OF THE LANDSCAPE ARCHITECT'S OR OWNER'S WRITTEN ACCEPTANCE OF THE INITIAL PLANTING. REPLACEMENT PLANT FAMILY AND THE ACCEPTANCE OF THE INITIAL PLANTING. REPLACEMENT PLANT FAMILY AND THE ACCEPTANCE OF THE MATERIAL SHALL HAVE A ONE YEAR GUARANTEE COMMENCING UPON PLANTING.
- ALL PLANTS TO BE SPECIMEN GRADE, MINNESOTA-GROWN AND/OR HARDY. SPECIMEN GRADE SHALL ADHERET O, BUT IS NOT LIMITED BY, THE FOLLOWING STANDARDS:
 ALL PLANTS SHALL BE FREE FREM DISCREE, FERSTS, WOLINDS, SCORE, ETC.
 ALL PLANTS SHALL BE FREE FROW BROKEN, FOR EACH SHAPPING FROM THES.
 ALL PLANTS SHALL BE FREE FROW BROKEN OR DEAD BRANCHES.
 ALL PLANTS SHALL BE FREE FROW BROKEN OR DEAD BRANCHES.
 ONNEROUS TREES SHALL HAVE AN ESTABLISHED MAIN LEADER AND A HEIGHT TO WIDTH RATIO OF NO
 LESS THAN 3.
- PLANTS TO MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSI 260.1-2014 OR MOST CURRENT VERSION) REQUIREMENTS FOR SIZE AND TYPE SPECIFIED.
- PLANTS TO BE INSTALLED AS PER MNLA & ANSI STANDARD PLANTING PRACTICES.
- INSTALL PLANTS BY PLANT INSTALLATION PERIOD INFORMATION IN THE LATEST STANDARD PLANTING DETAILS FROM MNDOT. PLANTINGS BEFORE OR AFTER THESE DATES ARE DONE AT RISK.
- PLANTS SHALL BE IMMEDIATELY PLANTED UPON ARRIVAL AT SITE. PROPERLY HEEL-IN MATERIALS IF NECESSARY; TEMPORARY ONLY.
- PRIOR TO PLANTING, FIELD VERIFY THAT THE ROOT COLLARROOT FLARE IS LOCATED AT THE TOP OF THE BALLED & BURLAP TREE. IF THIS IS NOT THE CASE, SOIL SHALL BE REMOVED DOWN TO THE ROOT COLLARROOT FLARE. WHEN THE BALLED A BURLAF TREE IS PLANTED, THE ROOT COLLARROOT FLARE WHEN THE BALLED A BURLAF TREE IS PLANTED, THE ROOT COLLARROOT FLARE SHALL BE EVEN OR SLIGHTLY ABOVE FINISHED GRADE.
- OPEN TOP OF BURLAP ON BB MATERIALS; REMOVE POT ON POTTED PLANTS; SPLIT AND BREAK APART PEAT POTS.
- PRUNE PLANTS AS NECESSARY PER STANDARD NURSERY PRACTICE AND TO CORRECT POOR BRANCHING OF EXISTING AND PROPOSED TREES.
- 14. WRAP ALL SMOOTH-BARKED TREES FASTEN TOP AND BOTTOM. REMOVE BY APRIL 1ST.
- 15. STAKING OF TREES AS REQUIRED; REPOSITION, PLUMB AND STAKE IF NOT PLUMB AFTER ONE YEAR.

- BACKFILL SOIL AND TOPSOIL TO ADHERE TO MINDOT STANDARD SPECIFICATION 3877 (LOAM TOPS BORROW) AND TO BE EXISTING TOP SOIL FROM SITE FREE OF ROOTS. ROCKS LARGER THAN ONE SUBSOIL DEBRIS, AND LARGE WEEDS UNLESS SPECIFIED OTHERWISE. MINIMUM 4" DEPTH TOPSOIL FOR ALL LAWN GRASS AREAS AND 12" DEPTH TOPSOIL FOR TREE, SHRUBS, AND PERENNIALS.

18. MULLY TO BE IT ALL TIBEL SHIRLD, PERDAMAL AND MAYERANCE AREAS, ROCK MULCH TO BE TRAP
ROCK UPF LIBERTORIE, OR ROCK PROCK! TO MAYER AT MINIMAL TO EDTH, OX MOPROVIDE DOUGL.
RECOMMENDATIONS USE PRESENCE OR PRE-APPROVED EQUAL ROCK MULCH AND FASTILIZED.
RECOMMENDATIONS USE PRESENCE OR PRE-APPROVED EQUAL ROCK MULCH AND FASRICT OB BE
FILTER FABRIC, BY TYPAR, OR APPROVED EQUAL WITH NO EXPOSURE. MULCH AND FASRICT OB BE
APPROVED BY OWNER PRIOR TO INSTILLATION, MULCH TO MATCH EXITING CONDITIONS (WHERE APPLICABLE).

19. EDGING TO BE COMMERCIAL, GRADE COL-MET (OR EQUAL) STEEL EDGING, 9/19" THICK; 8° TALL, COLOR BLACK, OR SPAGED EDGE, AS INDICATED, STEEL EDGING SHALL BE PLACED WITH SMOOTH CURYES AND BLACK, OR SPAGED EDGE, AS INDICATED, STEEL EDGING SHALL BE PLACED WITH SMOOTH CURYES AND SIGNAL STATE OF EDGING WISES. FOR SMOOTH COLOR STATE OF EDGING WISES. FOR SMOOTH COLOR STATE OF EDGING WISES. POSSBLE, WHERE EDGING TERMINATES AT A SIGNALL, BEVEL OR RECESS ENGS TO PREVENT TRIP HAZARO, SPAGED EDGE OF TO PROVIDE VIAHAPED EDGING AND WIGHT TO FERSE SPAGATION BETWEEN MALCH AND GRASS. MIDIOUTAL TREE, SHIPLIO, OR RAIN-CARGEN EDGS TO GE SPAGED EDGE (UNLESS NOTE) OTHERWISE EDGING TO MATCH DESITING CONDITIONS (WEEK APPLICABLE).

20. ALL DISTURBED AREAS TO BE SODDED OR SEEDED, JUNESS OTHERWISE NOTED. SOD TO BE STANDARD MINNESOTA GROWN AND HARDY SILLEGRASS MIN, FREE OF LAVIN WEEDS, ALL TOPSOL AREAS TO BE RAKED TO REMOVE DEBRIS AND ENSURE DRAINAGE. SLOPES OF \$1 OR GREATER SHALL BE STAKED. SEED AS SPECIFED, PER MINDOT SPECIFICATIONS AND SUPPLIERMANUFACTURER RECOMMENDATIONS. NOT INDICATED ON LANDSCAPE PLAN. SEE EROSION CONTROL PLAN.

21. PROVIDE IRRIGATION / PROVIDE NEW SYSTEM, OR MODIFY EXISTING IRRIGATION PER OWNERS DIRECTION TO ALL PLANTED AREAS ON SITE. IRRIGATION SYSTEM TO BE DESIGNIBILED BY LANGSCAPE CONTRACTOR. PROVIDED AND AN AREA OF THE PROVIDED OF THE AREA OF THE PROVIDED OF THE AREA OF TH AND LABOR. ALL INFORMATION ABOUT INSTALLATION AND SCHEDULING CAN BE OBTAINED FROM TH GENERAL CONTRACTOR. SYSTEM SHALL INCLUDE A RAIN SENSOR AND APPROPRIATE TECHNOLOGY.

- 22. PROVIDE NECESSARY WATERING OF PLANT MATERIALS UNTIL THE PLANT IS FULLY ESTABLISHED OR IRRIGATION SYSTEM IS OPERATIONAL. OWNER WILL NOT PROVIDE WATER FOR CONTRACTOR.
- REPAIR, REPLACE, OR PROVIDE SODISEED AS REQUIRED FOR ANY ROADWAY BOULEVARD AREAS ADJACENT TO THE SITE DISTURBED DURING CONSTRUCTION.

- 24. REPAIR ALL DAMAGE TO PROPERTY FROM PLANTING OPERATIONS AT NO COST TO OWNER.
- 25. MAINTAIN TREES, SHRUBS, SEED AND OTHER PLANTS UNTIL PROJECT COMPLETION, BUT IN NO CASE, LESS THAN FOLLOWING FREIOR: 1 YEAR AFTER PROJECT FOUND IT TOO MUTTAN TREES. SHERING, SEED AND OTHER PARTIES BY PRINNING, CLUT THANKIN, AND WEEDING AS REQUIRED FOR HEALTHY GROWTH RESTORE PLANTING SAUCERS. TIGHTEN AND REPAIR STAKE AND GUY SUPPORTS AND REST TREES AND GUY SUPPORTS AND GUY MINIMUM ONCE A MONTH DURING THE GROWING SEASON. PROVIDE A MONTHLY REPORT TO THE OWNER ON WEEDING AND OTHER MAINTENANCE RESPONSIBILITIES.
- 26. SEE ELECTRICAL PLANS FOR SITE LIGHTING.

Kimley

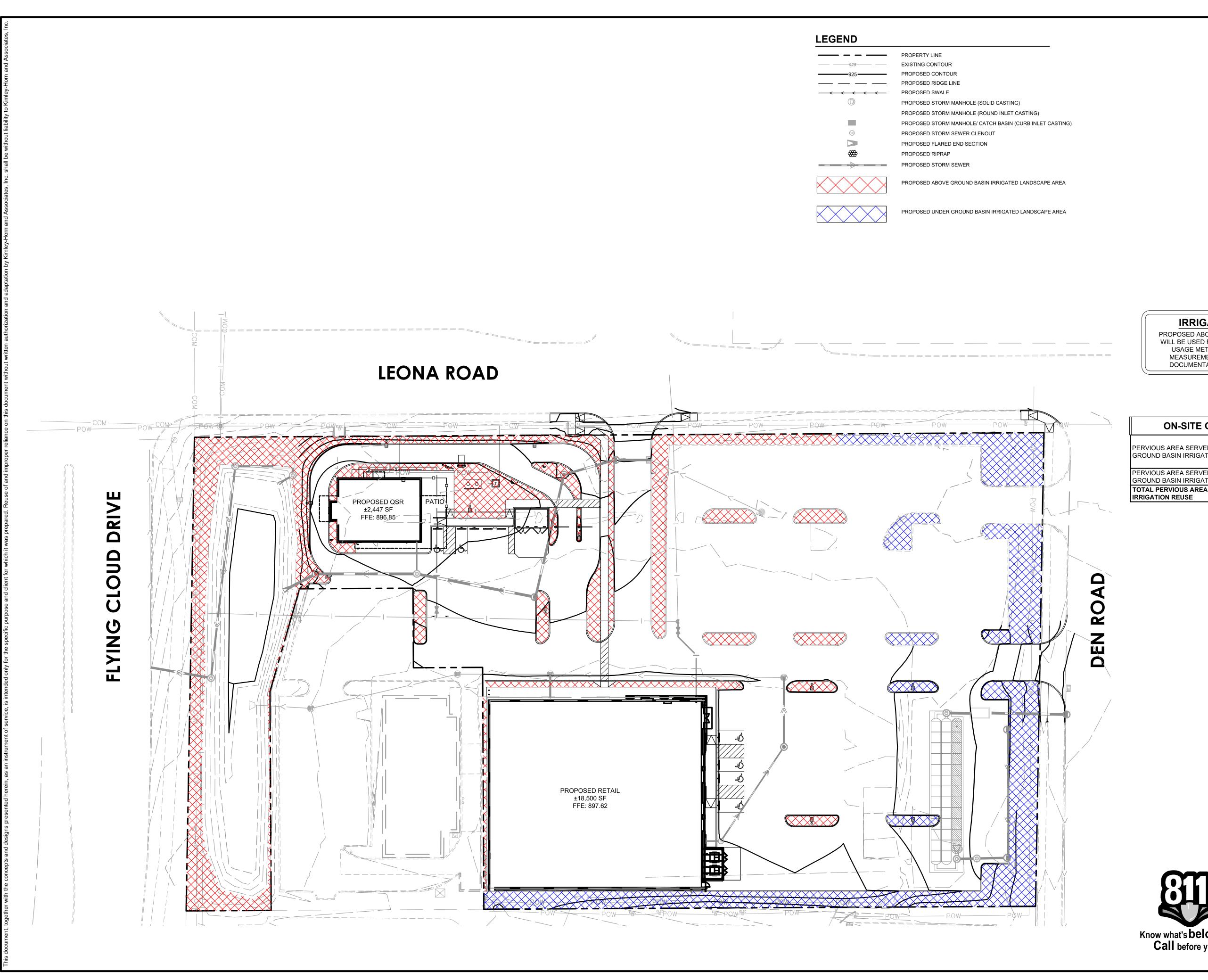
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CONSTRUCTION

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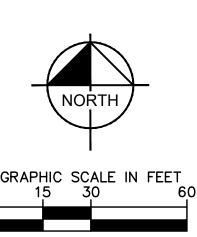




PROPOSED ABOVE GROUND & UNDERGROUND SYSTEM WILL BE USED FOR IRRIGATION REUSE. AN IRRIGATION USAGE METER WILL BE PROVIDED FOR ON-SITE MEASUREMENTS AND IS REQUIRED FOR ANNUAL DOCUMENTATION TO THE WATERSHED DISTRICT

ON-SITE GREEN SPACE SUMMARY						
PERVIOUS AREA SERVED BY ABOVE GROUND BASIN IRRIGATION REUSE	0.43 AC					
PERVIOUS AREA SERVED BY UNDER GROUND BASIN IRRIGATION REUSE	0.25 AC					
TOTAL PERVIOUS AREA SERVED BY IRRIGATION REUSE	0.68 AC					

ON SP



SHEET NUMBER