

GRAND RAPIDS ECONOMIC DEVELOPMENT AUTHORITY MEETING AGENDA

Thursday, March 09, 2023 4:00 PM

NOTICE IS HEREBY GIVEN, that a regular meeting of the Grand Rapids Economic Development Authority will be held in the City Council Chambers in the Grand Rapids City Hall, 420 North Pokegama Avenue, in Grand Rapids, Minnesota on Thursday, March 9, 2023 at 4:00 PM.

CALL TO ORDER

CALL OF ROLL

SETTING OF THE REGULAR AGENDA - This is an opportunity to approve the regular agenda as presented, or to add/delete an agenda item by a majority vote of the Commissioners present.

APPROVE MINUTES

1. Consider approval of the minutes from the February 9th, 2023 regular meeting.

APPROVE CLAIMS

2. Consider approval of claims in the amount of \$14,677.49.

BUSINESS

3. Consider authorizing a grant request to the Blandin Foundation

UPDATES

- 4. Yanmar Compact Equipment North America Expansion
- 5. Forest Lake Addition
- 6. Ongoing efforts in housing and childcare

ADJOURN

MEMBERS & TERMS

Tom Sutherland - 12/31/2023 Council Representative Tasha Connelly - 12/31/2023 Council Representative Cory Jackson - 3/1/23 Mike Korte - 3/1/24 Wayne Bruns - 3/1/25 Sholom Blake - 3/1/25 Al Hodnik - 3/1/27



GRAND RAPIDS ECONOMIC DEVELOPMENT AUTHORITY MEETING MINUTES

Thursday, February 09, 2023 4:00 PM

NOTICE IS HEREBY GIVEN, that a regular meeting of the Grand Rapids Economic Development Authority will be held in the City Council Chambers in the Grand Rapids City Hall, 420 North Pokegama Avenue, in Grand Rapids, Minnesota on Thursday, February 9, 2023 at 4:00 PM.

CALL TO ORDER

CALL OF ROLL

PRESENT Commissioner Al Hodnik Commissioner Cory Jackson Commissioner Mike Korte President Sholom Blake Commissioner Tasha Connelly Commissioner Wayne Bruns

ABSENT Commissioner Tom Sutherland

SETTING OF THE REGULAR AGENDA - This is an opportunity to approve the regular agenda as presented, or to add/delete an agenda item by a majority vote of the Commissioners present.

Approved with addition:

Consider approving a Central School Lease with Embrace Mental Health.

APPROVE MINUTES

1. Consider approval of minutes from the January 26, 2023 regular meeting.

Motion by Commissioner Connelly, second by Commissioner Bruns to approve the minutes from the January 26, 2023 regular meeting. The following voted in favor thereof: Hodnik, Bruns, Connelly, Blake, Jackson, Korte. Opposed: None, motion passed unanimously.

APPROVE CLAIMS

2. Consider approval of claims in the amount of \$150.00

Motion by Commissioner Hodnik, second by Commissioner Bruns to consider approval of claims in the amount of \$150.00. The following voted in favor thereof: Korte, Jackson, Blake, Connelly, Bruns, Hodnik. Opposed: None, motion passed unanimously.

BUSINESS

3. Consider adopting a resolution supporting a property tax abatement for and business subsidy agreement with Yanmar Compact Equipment North America.

Community Development Director Mattei provided a power point presentation with an overview of the Yanmar Compact Equipment North America tax abatement for business subsidy agreement.

4. Consider authorizing a letter of support for the City's application to the Corridors of Commerce program for TH 2 and TH 169 intersection improvements.

UPDATES

ADJOURN

MEMBERS & TERMS

Tom Sutherland - 12/31/2023 Council Representative Tasha Connelly - 12/31/2023 Council Representative Cory Jackson - 3/1/23 Mike Korte - 3/1/24 Wayne Bruns - 3/1/25 Sholom Blake - 3/1/25 Al Hodnik - 3/1/27

ltem 2.

DATE: 03/02/2023 C TIME: 15:18:48 DEP ID: AP443GR0.WOW	ITY OF GRAND RAPIDS ARTMENT SUMMARY REPORT	PAGE:	1
INVOIC	ES DUE ON/BEFORE 03/09/2023		
VENDOR # NAME		AMOUNT	DUE
EDA - CAPITAL PROJECTS AIRPORT SOUTH INDUSTRIAL P 0114200 ANDERSON GL 1415511 NORTHERN ST 1801610 RAPIDS PLUM	ARKS	182 1,813	2.00 3.21 0.00
ТОТА	L AIRPORT SOUTH INDUSTRIAL PARKS	2,775	5.21
DWNTOWN PLAN PJT-BLANDIN G	רז אנידי		
1900650 SRF CONSULT		2,365	5.62
ТОТА	L DWNTOWN PLAN PJT-BLANDIN GRNT	2,365	5.62
FOREST LK SCH REDEVELOPMEN	Ϋ́		
1900225 SEH	-	3,900	0.00
TOTA	L FOREST LK SCH REDEVELOPMENT	3,900	0.00
ASV-YANMAR EXPANSION PRJT			
1105530 KENNEDY & G	RAVEN, CHARTERED	4,493	1.00
ТОТА	L ASV-YANMAR EXPANSION PRJT	4,493	1.00
TOTA: CHECKS ISSUED-PRIOR APPROVAL	L UNPAID TO BE APPROVED IN THE SUM OF:	\$13,532	1.83
PRIOR APPROVAL		1 0.0	0 0 0
1309170 MN DEED 1621130 P.U.C.		1,000 149	0.00 5.66
ТОТА	L PRIOR APPROVAL ALLOWED IN THE SUM OF:	\$1,14	5.66
TOTA	L ALL DEPARTMENTS	\$14,67	7.49



REQUEST FOR GRAND RAPIDS EDA ACTION

AGENDA DATE:	February 23, 2023
STATEMENT OF ISSUE:	Consider authorizing a grant request to the Blandin Foundation
PREPARED BY:	Rob Mattei, Executive Director

BACKGROUND:

During the Downtown Plan stakeholder engagements, discussions with entrepreneurs that own or are interested in purchasing or leasing older buildings in the Downtown have exposed a common challenge that hinders the establishment of new business. Similar discussions during GREDA's preparation of a work plan for this year lead to the setting of a goal to <u>"Consider ways to support the relocation/renovation of local small businesses and assist with ADA compliance improvement funding options"</u>.

The City of Grand Rapids, in 1980, adopted the Minnesota State Building Code which governs the construction, repair and use of buildings and establishes reasonable safeguards for health, safety, and welfare of residents. Not that it would be advisable, but State law prohibits communities with a population of greater than 2,500 from repealing their adoption of the Code.

A change of Occupancy Classification, as defined within the Code for a proposed new use within an existing building, most often triggers the need for upgrades to the building that are not anticipated nor budgeted for by the buyer/entrepreneur. These Code mandated building upgrades typically come in the form of establishing compliant handicapped accessibility routes to a building and within, fire protection and fire resistance, improved means of safe egress and bathroom/plumbing additions and remodeling. This is particularly prevalent in the Downtown where buildings are much older, built prior to any of these standards.

The unanticipated expense of these types of building upgrades have had the effect of halting some business' plans for a Downtown location. Absent these upgrades to existing buildings, they are limited to serving as a viable location only for proposed uses that fall into the current/existing Code Occupancy Classification, which doesn't mandate upgrades. Not only does the resulting lack of investment limit the diversification of the business and mercantile mix in the Downtown, but it also has the effect of perpetuating non-compliance with handicapped accessibility and other life safety standards. In particular, the avoidance of upgrades to meet handicapped accessibility standards has the effect of limiting or prohibiting a person with disabilities from accessing and enjoying what the Downtown has to offer.

The proposed grant request of \$350,000 to the Blandin Foundation would be used by GREDA to establish a loan fund, the Downtown Mandated Improvements Loan Fund. GREDA would create a policy for the administration of the Fund; however, it will have the following general elements:

- The Fund would provide medium-term (10-year) loans of up to \$50,000 for direct costs of Code mandated improvements to existing retail focused buildings in the Downtown, the geographic limits of which are established in the 2023 Downtown Plan.
- Loans will be secured though a recorded loan/lien agreement or mortgage executed by the property owner and GREDA.
- The principal amount of the loans will carry an interest rate of 2% over the 10-year term.
- Repayment of principal and interest on the loans will be deferred during the 10-year term. Furthermore, 10% of principal balance of the loan will be forgiven each year the owner maintains his or her ownership of the building during the term.
- In the event that the owner sells, transfers or otherwise conveys the property during the term, the remaining balance and accumulated interest will be paid back to GREDA. GREDA will then deposit those funds into the program for their continued use.

GREDA, with assistance from the City Finance Department, would service the loans issued and administer the program. GREDA would market the availability of the program through its website, and direct communication with all property owners in the Grand Rapids Downtown.

RECOMMENDATION:

REQUIRED ACTION: Make a motion to authorize a grant request to the Blandin Foundation.



Blandin Foundation **



Grants Over \$50,000

Application Due:

March 15 June 15 September 15 December 15

Grants Over \$50,000

If you haven't already, please visit our <u>website</u> to check your project's fit with our eligibility guidelines and areas of focus. Please email all grant applications to grants@blandinfoundation.org. Supporting information may be mailed separately or scanned and sent as attachments. **If you do not receive acknowledgment of your application in 2-3 business days, please call us at 218-326-0523.**

Organization Information

Grand Rapids Economic Develo	pment Authority							
Name of organization	Name	Name on articles of incorporation, if different						
420 N. Pokegama Avenue	Grand Rapids, MN 557	744 41-60	005201					
Address	City, State, Zip	Employ	er Identification Number (EIN)					
218 326-7622	218 326-7621	www.	grandrapidseda.com					
Phone	Fax	Website						
Rob Mattei	Executive Director	218 244-2924	rmattei@ci.grand-rapids.mn.us					
Name of Executive Director, CEO, Board Chair, or Lead Organizer	Title	Phone	E-mail					
(Same)								
Name of contact person regarding this application	Title	Phone	E-mail					
Is your organization an IRS 501	(c)(3) nonprofit? 🗌 Yes	⊠ No						
If no, is your organization	on a public agency, triba	al government ei	ntity, or unit of government?					
$oxtimes$ Yes \Box No								
If no, list name and add	lress of fiscal agent, incl	uding EIN numb	er:					
		EIN Nu	mber					

If working through a fiscal agent, please attach an email or letter confirming they have agreed to be fiscal agent for your organization.



Proposal Summary

Duration of project: May 2023 to December 2028

Please give a 2-3 sentence summary of your proposal:

The Grand Rapids Economic Development Authority (GREDA) proposes to establish a fund for the purpose of providing medium-term loans of up to \$50,000 to commercial building owners in the Downtown to fund State Building Code mandated improvements to existing commercial buildings in the Downtown. The loans would be designed to be entirely forgiven if the recipient maintains ownership for the full term.

Please give a 1-2 sentence summary of the geographic area your proposal will serve:

Throughout the Downtown Plan process this year, the public engagement has affirms that the strong establishment of Downtown entertainment events, such as the Riverfest, is a high priority that will serve to attract new business investment and strengthen existing businesses in the heart of the City. The businesses in this area serve a retail trade-area population of 49,000 residents in Itasca, Aitkin and Cass and St. Louis counties.

Furthermore, according to a data source subscription obtained by VGR, the City and Itasca County that extracts cell phone data within geofenced areas, downtown Grand Rapids is the most visited point of interest in Itasca County, attracting over 85,000 unique visitors traveling from further than 50 miles away, in 2021.

Please give a 1-2 sentence summary of how your board and staff are representative of the population you serve.

The Grand Rapids Economic Development Authority is a public body established under Minnesota Statute Chapter 469 and enabling resolutions enacted by the City Council of the City of Grand Rapids. The seven member GREDA Board of Commissioners includes: two City Council members, a business financial officer, an accountant/business owner, a business owner, an economic development loan officer and a retired power industry CEO. All GREDA members are appointed by the Mayor and approved by the City Council and must demonstrate an interest and concern about present and future development of the economy, an ability to keep an open and objective mind, and have linkages with neighborhood, citizen groups and the business community.

The Director of Community Development serves as the GREDA Executive Director, their Bond and Economic Development Counsel, Gina Fiorini (Kennedy and Graven) and the City Finance Director provide staff support to GREDA.

Budget Summary

Fiscal Year of Organization or Project:	2022 to 2022
Total project budget:	\$375,000
Total dollar amount requested of Blandin Foundation:	\$350,000
Total annual budget (organization operating budget):	\$16,000





Signature

__Rob Mattei____ Name of CEO/Executive Director or Board Chair

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Signature (scanned/electronic signature acceptable)

Proposal Narrative

Organizational Profile

The mission of GREDA is to promote growth in our local economy through efforts focused on business recruitment and attraction, and business retention and expansion within the corporate limits of the City of Grand Rapids. A summary of the types of activities in which GREDA engages is as follows:

- 1) Administration of the GREDA Commercial Building Improvement Loan Program.
- 2) Act as a redevelopment agency in the promotion, encouragement and development of sound industry and commerce through governmental action to prevent the emergence of, or to correct, conditions of blight or marginal land. Acting as a redevelopment agency, some of the GREDA's abilities include:
 - a) Acquire, construct, and hold lands, buildings, easements, improvements to lands and buildings to be located on designated sites.
 - *b) Issue revenue bonds to finance some or all costs of acquisition, construction, and reconstruction.*
- *3)* Involvement in the development and implementation of local business retention and expansion (BRE) programs.
- 4) The development of industrial parks in the City of Grand Rapids, including activities such as:
 - a) Site selection
 - b) Land acquisition through purchase or lease, with powers of eminent domain if necessary, and with the powers to issue general obligation bonds with City Council authorization.
 - c) Enter into contracts for the development of: subdivision plats, extensions of infrastructure, building construction.
 - d) Business recruitment followed by sale or lease of real or personal property
- 5) Study and analyze the economic development needs in the City and propose actions to meet those needs.
- 6) May participate with public or private corporations or other entities whose purpose is to provide seed or venture capital to small businesses located or to be located in an economic development district within the City.

GREDA has taken the lead role for the City of Grand Rapids in the creation of four industrial park areas in Grand Rapids, beginning in 1969. Industries and facilities already located in these industrial parks include ASV Inc., Arrowhead Promotion, Olympac, Minnesota Diversified Industries, Viking Electric, Schroeder Log Home Supply, and the US Forest Service Fire Training Center. Within the two industrial parks, developed on the north side of Lily Lake between 1992 and 2002, six industries are now operating, providing over 650 jobs to residents of the Grand Rapids area. In April of 2007, GREDA



entered into a public/private partnership with Round Development and the City of Grand Rapids to create the Airport South Industrial Park. This forty acre industrial park is located in southeast Grand Rapids adjacent to the south side of 29th St. SE, and the west side of 7th Ave. SE (Airport Rd.). Since the development of this park, GREDA has attracted the location of Swan Machine, Country Hearth Bread distribution and Frito Lay distribution. In 2010, Itasca Economic Development Corporation (IEDC) requested GREDA's purchase of a 25-acre portion of the former Ainsworth OSB plant to improve IEDC's cash position following their acquisition of the site. GREDA achieved shovel-ready certification for the site and within three years had sold it to two businesses, DC Manufacturing and Hammerlund Construction, and delivered IRRR grants to both projects.

GREDA has also been active in promoting re-development of underutilized, publicly owned, property along the Mississippi riverfront, following the recommendations within the Riverfront Framework Plan. This effort led to the development of the Glorvigen Office building at the corner of 1st Ave. E. and 2nd St. North. Adjacent to the Grand Rapids Area Library, the GREDA also successfully negotiated the sale of GREDA riverfront property, leading to the development of the KAXE public radio broadcast center and outdoor performance amphitheater. The Block 20/21 site, north of the Library, and the Block 5 site, east of 3rd Ave, are additional sites currently available for development in this area.

The objective of revitalizing the Downtown Central Business District has been a consistent area of focus for GREDA. The Downtown Redevelopment Master Plan establishes a collection of fundamental objectives for directing redevelopment in the Downtown, and specifically identifies key redevelopment opportunity sites in the Downtown with strategies for the use of public and private investment. The Plan also provides guidance for improvements to the public realm (streetscape) and public parking areas to create a renewed Downtown.

In addition to the improvements the public realm in the Downtown, GREDA has been engaging private interest in the larger task of securing the redevelopment of deteriorated, underutilized, properties within the opportunity sites identified in the Plan. Past successes include:

- <u>Block 37 Redevelopment Project</u> Block 37 is the block bordered on the north by Highway 2, on the east by Highway 169 and on the west by First Ave. W. GREDA assembled/purchased vacant properties for conveyance to Rennix Corporation, the developer and assisted Rennix with a short-term (18-month) acquisition loan, provided through the Downtown Redevelopment Loan PRI with the Blandin Foundation. With GREDA's recommendation, the City of Grand Rapids created a Tax Increment Financing Redevelopment District to support the acquisition and private renovation of two substandard commercial buildings (now the Crossings Marketplace and the Crossings buildings), the demolition of one substandard commercial building, and the new construction of a commercial building which is now Members Cooperative Credit Union.
- <u>Block 19 Redevelopment Project</u> GREDA and the City sold a building (abandoned Township Hall) to the Rapids Brewing development, secured an IRRR grant used to fund the demolition of two buildings and provided a Small Cities Development Program (SCDP) deferred/forgivable loan as well as a low interest CBIL loan to Rapids Brewing for the renovation of the former Rialto Theater building. Now that Rapids Brewing has established their business, they have purchased the adjoining building to the south and are planning an expansion of brewing capacity and seating. In addition, GREDA provided a SCDP deferred/forgivable loan to Wayne's Automotive for their façade improvements.



Some of the items on the GREDA 2022 Work Plan include:

- Support the needs of industries looking to occupy portions of the Voyageur Capital building
- Ensure an adequate inventory of industrial sites and facilities exist to accommodate full industrial, warehousing & distribution business expansion and relocation potential.
- Support the development or redevelopment/infill of strategic commercial sites to achieve growth in the retail sales and service sector.
- Support the retention and growth of existing industries
- Pursue initiatives that would support existing and new wood product industries
- Promote growth and vitality of the downtown
- Consider the next steps in supporting local businesses with changes caused by the COVID-19 pandemic
- Investigate and advocate for highway transportation route improvements to improve linkages between Grand Rapids and the interstate, the Duluth port and the Iron Range

GREDA staff has developed effective partnerships with state, regional and local economic development organizations such as MN IRRR, DEED, and IEDC. A recent example of a collaborative effort involved leading the effort to attract the relocation of ASV Holdings' parts distribution division from a third party logistics vendor in Mississippi to Grand Rapids. GREDA pulled in IRRR and DEED representatives to discuss the project with ASV officials. GREDA applied for and received funds from the DEED Minnesota Investment Fund program, and used those to provide a \$125,000 equipment loan to ASV with forgivable and low interest terms. IRRR provided a \$300,000 business loan with forgivable terms based on specific employment targets.

Currently, that same process is being repeated on a larger scale with GREDA leading the effort, together with IRRR, DEED, the City and the County to support ASV's intended expansion. The ASV expansion will involve \$9.5M CAPEX in construction of a 32,000 sq. ft. addition and equipment purchases. The expansion will require significant staffing, approximately 360 FTE, to accomplish a ramp-up of their production of Compact Track Loaders and the relocation of a new Compact Excavator production line from their parent company in Japan, Yanmar.

Purpose of Grant

A. Background

With the support from the Blandin Foundation, the Grand Rapids Economic Development Authority (GREDA) has been engaged in the development of a new, updated, plan for the Downtown. The plan will include specific implementation strategies to enhance public space opportunities in the downtown to create a sense of place and attract and bring people together.

We have been fortunate to see a great amount of interest and participation from the community and downtown stakeholders in this process. The level and content of the public input has made it very clear that the community is committed to building upon the Downtown's recent successes of late to improve it's standing as the heart of the community.

Discussions with entrepreneurs that own or are interested in purchasing or leasing older buildings in the Downtown have exposed a common challenge that hinders the establishment of new business.

The City of Grand Rapids, in 1980, adopted the Minnesota State Building Code which governs the construction, repair and use of buildings and establishes reasonable safeguards for health, safety, and



welfare of residents. Not that it would be advisable, but State law prohibits communities with a population of greater than 2,500 from repealing their adoption of the Code.

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The unanticipated expense of these types of building upgrades have had the effect of halting a business' plans for a Downtown location. Absent these upgrades to existing buildings, they are limited to serving as a viable location only for proposed uses that fall into the current/existing Code Occupancy Classification, which doesn't mandate upgrades. Not only does the resulting lack of investment limit the diversification of the business and mercantile mix in the Downtown, it has the effect of perpetuating non-compliance with handicapped accessibility and other life safety standards. In particular, the avoidance of upgrades to meet handicapped accessibility standards has the devasting effect of limiting or prohibiting a person with disabilities from accessing and enjoying what the Downtown has to offer.

With assistance from the Blandin Foundation, GREDA would like to establish a fund for the purpose of providing loans to building owners in the Downtown to make these improvements to their buildings.

B. Implementation

GREDA would use the requested Blandin Foundation grant funds to establish a loan fund, the Downtown Mandated Improvements Loan Fund. GREDA would create a policy for the administration of the Fund; however, it will have the following general elements:

- The Fund would provide medium-term (10-year) loans of up to \$50,000 for direct costs of Code mandated improvements to existing retail focused buildings in the Downtown, the geographic limits of which are established in the 2023 Downtown Plan.
- Loans will be secured though a recorded loan/lien agreement or mortgage executed by the property owner and GREDA.
- The principal amount of the loans will carry an interest rate of 2% over the 10 year term.
- Repayment of principal and interest on the loans will be deferred during the 10-year term. Furthermore, 10% of principal balance of the loan will be forgiven each year the owner maintains his or her ownership of the building during the term.
- In the event that the owner sells, transfers or otherwise conveys the property during the term, the remaining balance and accumulated interest will be paid back to GREDA. GREDA will then deposit those funds into the program for their continued use.

GREDA, with assistance from the City Finance Department, will service the loans issued and administer the program. GREDA will market the availability of the program through its website, and direct communication with all property owners in the Grand Rapids Downtown.

Assessment

The goal for the fund is to provide funding for seven or more projects over the next three to five years, thereby removing barriers to business looking to establish and grow in the Downtown, improved building safety and remove longstanding impediments to access by individuals with disabilities.





Project Budget

Revenue:	
Blandin Foundation	\$350,000
GREDA (in-kind)	25,000
Total:	\$375,000
Expenses:	
Loans issued	\$350,000
Total:	\$350,000

Organizational Budget – GREDA Operating Budget

CITY OF GRAND RAPIDS ECONOMIC DEVELOPMENT AUTHORITY Actual 2017-2020 Expenditures, 2021 Budget And Proposed 2022 Budget

	2017 ACTUAL	2018 ACTUAL	2019 ACTUAL	2020 ACTUAL	2021 BUDGET	PROPOSE 2022 BUDGET
Fund Balance 1/1/XX:	42,310	28,558	30,968	17,096	2,880	17,33
REVENUES:						
Taxes						
Current		15,000	-	-	30,000	
Fiscal Disparities		-	-	-	-	
Total Taxes	-	15,000	(a)		30,000	
Intergovernmental Supplemental Aid						
Total Intergovernmental	-	-	-	-	-	
Miscellaneous Revenue						
Miscellaneous Revenue	1,995	779				
Interest - Investments	310	345	427	164	400	20
Total Miscellaneous	2,305	1,124	427	164	400	20
Other Sources						
Fund Balance Usage	<u> </u>		-	-		
TOTAL REVENUES	2,305	16,124	427	164	30,400	20
EXPENDITURES:						
Supplies/Materials	7	31	23	13	50	5
Professional Services	138	153	229	150	400	40
Accounting/Auditing Services	3,013	2,360	3,183	3,697	3,200	3,80
Legal	2,432	779	752	220	1,500	1,20
Consulting	10,000	10,000	10,000	10,000	10,000	10,00
Seminars/Meetings	-	-	-	-	250	25
General Insurance	22	17	17	20	50	5
Other Charges & Services	446	374	94	280	500	50
TOTAL EXPENDITURES	16,057	13,714	14,298	14,380	15,950	16,25
REVENUES > EXPENDITURES	(13,753)	2,410	(13,871)	(14,216)	14,450	(16,05
UND BALANCE 12/31/XX	\$ 28,558	\$ 30,968	\$ 17,097	\$ 2,880	\$ 17,330	\$ 1,28

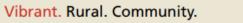
GREDA website (list of board members)

www.grandrapidseda.com



Audited Financial Statement was provided earlier this year. The same is available again if required.





<u>SURVEYOR / DESIGNER</u> SHORT ELLIOT HENDRICKSON INC. 1200 SE 4TH AVENUE, SUITE 200 GRAND RAPIDS, MN 55744	Lots 1 through 18, Blo situated within said Bl Seventh Avenue Wes Minnesota.
<u>DEVELOPER / OWNER</u> GRAND RAPIDS ECONOMIC DEVELOPMENT AUTHORITY 420 N. POKEGAMA AVENUE GRAD RAPDS, MN 55744	AND All of Block 5 in GRAN Minnesota.
<u>CONTOURS:</u> MINOR = 1', MAJOR = 5'	
<u>CONTOUR INFORMATION</u> CONTOURS SHOWN HAVE BEEN GENERATED FROM FIELD OBSERVATION COLLECTED BY SEH BETWEEN 1/19/2023 TO 2/16/2023.	ACREA TOTAL (INCLUE
	<u>BLOCK</u> LOT 1 :
<u>ZONING</u> CURRENT ZONING IS:	LOT 2 :
(R-2) One And Two-Family Residence	LOT 3 :
BUILDING SETBACKS (R2)	LOT 4 :
FRONT = 30' INTERIOR SIDE = 6'	LOT 5 :
STREET SIDE= 15' REAR = 30'	LOT 6 :
	LOT 7 :
	BLOCK
	LOT 1 :
<u>LEGEND</u> RIGHT OF WAY	LOT 2 :
PERMANENT EASEMENT	LOT 3 :
— — — — PROPERTY LINE — — — — — — BUILDING SETBACK	
FOUND SURVEY MARKER SANITARY SEWER	LOT 4 :
FM FORCE MAIN	LOT 5 :
——————————————————————————————————————	LOT 6 :
	LOT 7 :
FO - TO - BURIED FIBER OPTIC CABLE AND MANHOLE T-BUR - TO BURIED PHONE CABLE, PEDESTAL AND MANH	IOLE BLOCK
P-OH	LOT 1 :
	LOT 2 :
SIGN (NON STREET NAME)	LOT 3 :
	LOT 4 :
MAJOR CONTOUR LINE AND LABEL	LOT 5 :
(w) ⋈ ↔ ∘ ⟨w⟩ WATER MANHOLE, GATE VALVE, HYDRANT, CURB STOP AND METER	
(S) O ^{CO} ⊡ ^{LIFT} O ^{FM} SANITARY MANHOLE, CLEAN OUT, LIFT STATI AND FORCE MAIN MANHOLE	UN

FOREST LAKE ADDITION

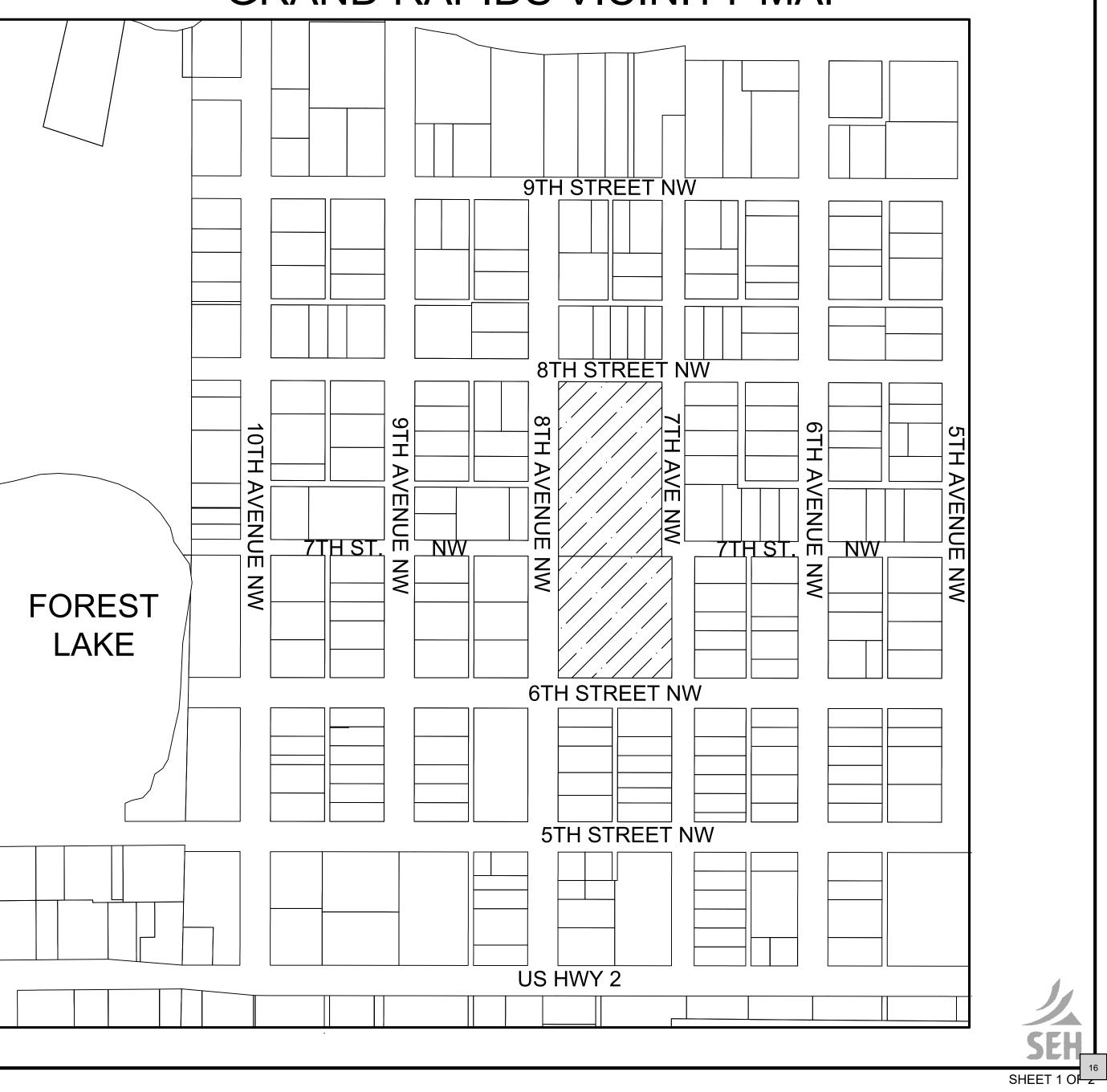
LEGAL LAND DESCRIPTION

HOUGHTON'S SECOND ADDITION TO GRAND RAPIDS, including vacated "T" alley and including all of adjoining vacated Seventh Street North between the limits of ghth Avenue West, according to the recorded plat there of, Itasca County,

PIDS SECOND DIVISION, according to the recorded plat thereof, Itasca County,

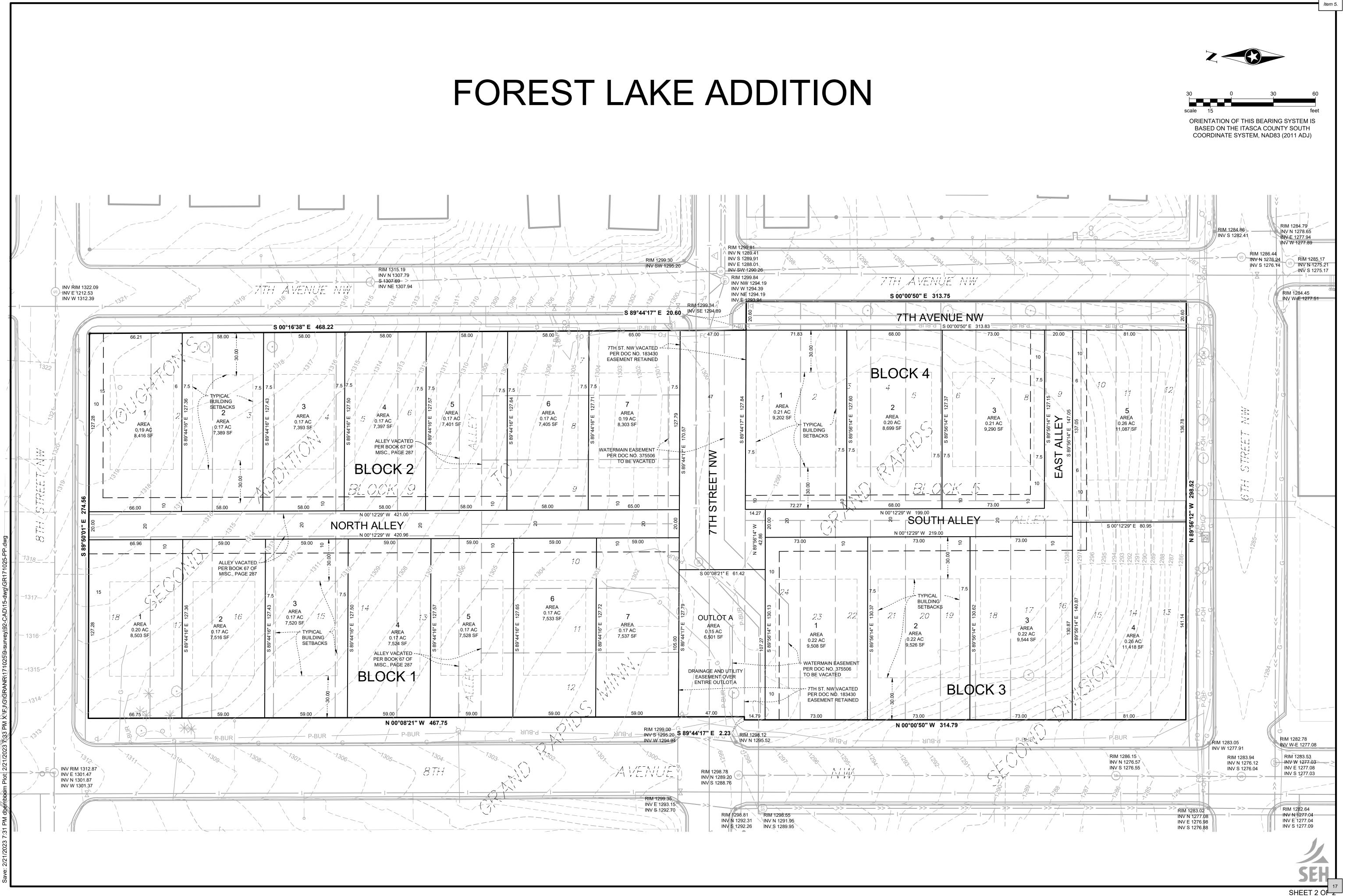
ACREAGE: 5.10 ACRES PROPOSED RIGHT-OF-WAY)

20 AC 3,503 SF 17 AC 7,516 SF 17 AC 7,520 SF 17 AC 7,528 SF 17 AC 7,528 SF 17 AC 7,533 SF 17 AC 7,537 SF	$\frac{\text{BLOCK 4}}{\text{LOT 1: 0.21 AC}} \\ \begin{array}{c} 9,202 \text{ SF} \\ \text{LOT 2: 0.20 AC} \\ 8,669 \text{ SF} \\ \text{LOT 3: 0.21 AC} \\ 9,290 \text{ SF} \\ \hline \underline{\text{OUTLOTS}} \\ \text{OUTLOT A: 0.15 AC} \\ 6,501 \text{ SF} \\ \hline \underline{\text{DEDICATED RIGHT OF WAY}} \\ \text{AREA: 0.70 AC} \\ 30,436 \text{ SF} \\ \hline \end{array}$
.19 AC 3,416 SF 17 AC 7,389 SF 17 AC 7,393 SF 17 AC 7,397 SF 17 AC 7,401 SF 17 AC 7,405 SF 19 AC 3,303 SF	
22 AC 9,508 SF 9.22 AC 9,526 SF 9.22 AC 9,544 SF 9.26 AC 11,418 SF 9.26 AC 11,087 SF	





Item 5.



EXISTING PROPERTY LINE PROPERTY LINE PROZOTATIONE PROZOTATIONE SURVEY MARKER SOL BORING SANTARY SEWER AND MANHOLE POCE MARKER SOL BORING SANTARY SEWER AND MANHOLE POCE MARKER SOL BORING SANTARY SEWER AND MANHOLE POCE MARKER SOL BORING SANTARY SEWER SERVICE & CLEANOUT WATER MAIN, MYDRANT, VALVE AND MANHOLE WATER MAIN, MYDRANT, VALVE AND MANHOLE BURED PHORE CABLE, PEDESTAL AND MANHOLE <t< th=""><th></th><th></th></t<>		
PERMANENT EASEMENT PROPERTY LINE PR		
PROPERTY LINE HORIZONTAL CONTROL POINT BEINCHMARK SURVEY MARKER SURVEY S		
HORIZONTAL CONTROL POINT BENCHMARK SURVEY MARKER SOLI BORING SANITARY SEWER AND MANHOLE FORCE MAIN AND LIFT STATION SANITARY SEWER RAND LEAND CATCH BASIN CULVERT AND APRON ENDWALL GAS MAIN, YALVE, VENT AND METER HANDHOLE BURIED FIBER OFTIC CABLE AND MANHOLE BURIED FIBER OFTIC CABLE, PEDESTAL AND MANHOLE BURIED FIBER OFTIC CABLE, PEDESTAL, MANHOLE BURIED FIBER OFTIC CABLE, PEDESTAL, MANHOLE BURIED FIDER CABLE, PEDESTAL, MANHOLE BURIED FIDER CABLE, PEDESTAL, MANHOLE BURIED FIDER CABLE, PEDESTAL, MANHOLE BURIED FUCE (CABLE, PEDESTAL, MANHOLE BURIED FUCE (UNDENTIFIED) BARBED WIRE FENCE WET WET BUILDING FENCE (UNIDENTIFIED) BARBED WIRE FENCE PLATE BEAM GUARDRAIL CABLE GUARDRAIL POST / BOLLARD FENCE (UNIDENTIFIED) SANITARY SEWER BULKHEAD AND MANHOLE POST / BOLLARD FIRET CANTURE FENCE PLATE BEAM GUARDRAIL CABLE GUARDRAIL POST / BOLLARD FIRET CANTURE, REDUCER, BERD AND CATCH BASIN CULVERT AND PRONENT EASEMENT CONSTRUCTION LIMITS SANITARY SEWER, MANHOLE, REDUCER, BERD AND CATCH BASIN CULVERT AND APRONENT BASEMENT CONSTRUCTION LIMITS SANITARY SEWER, MANHOLE, REDUCARD AND VALVE WATER WARK Y BADEWRER, BULKHEAD AND VALVE WATER WARK Y SANE FUNCE AND CATCH BASIN CULVERT AND APRONE NEWWARLE BARNEY SERVICE AND CLEANOUT WATER MAN, TEE, HYDRANT, BULKHEAD AND VALVE WATER WARK Y BADEWRER, MANHOLE AND CATCH BASIN CULVERT AND APRONE NEWWARLE BARN THE DANITARY SEWER, MANHOLE AND CATCH BASIN CULVERT AND APRONE NEWWARLE BARNITER AND PRENE NEWWARLE BARNITH		
SURVEY MARKER SOLI BORING SANITARY SEWER AND MANHOLE FORCE MAIN AND LIFT STATION SANITARY SEWER MANHOLE A OL CLANOUT WATER MAIN, HYDRANT, VALVE AND MANHOLE WATER SERVICE AND CURB STOP BOX STORM SEWER, MANHOLE AND CATCH BASIN CULVERT AND APRON ENDWALL GAS MAIN, VALVE, VENT AND METER HANDHOLE BURIED FIBER OFTIC CABLE AND MANHOLE BURIED FIDER OFTIC CABLE, PEDESTAL, MANHOLE BURIED FIDER CABLE, PEDESTAL, MANHOLE BURIED FUNC CABLE, PEDESTAL, MANHOLE BURIED FUNC BURIED FUNC CABLE, PEDESTAL, MANHOLE BURIED FUNC BURIED FUNC	AXX	
Image: Solution of the second seco	×BM	BENCHMARK
SANITARY SEWER AND MANHOLE FORCE MAIN AND LIFT STATION SANITARY SEWER SERVICE A CLEANOUT WATER SERVICE AND CURB STOP BOX STORM SEWER, MANHOLE AND CATCH BASIN STORM SEWER, MANHOLE AND CATCH BASIN STORM SEWER, MANHOLE AND CATCH BASIN CULVERT AND APRON ENDWALL GAS MAIN, VALVE, VENT AND METER HANDHOLE BURED FIBER OPTIC CABLE AND MANHOLE BURED FOR CABLE, PEDESTAL AND MANHOLE BURED TO CABLE, PEDESTAL AND MANHOLE BURED TO CABLE, PEDESTAL, AND MANHOLE BURED TO CABLE, PEDESTAL, AND MANHOLE BURED TO CHERT TRAFFIC SIGNAL STREET NAME SIGN SIGN (NON STREET NAME) RAILROAD TRACKS DECIDUOUS AND CONFEROUS TREE BUSH / SRUB AND STUMP EDGE OF WOODED AREA WETAND BUILDING WETAND BUILDING SANITARY SEWER RENCE CABLE GUARDRAIL CABLE GUARDRAIL CABLE GUARDRAIL CABLE GUARDRAIL CONSTRUCT WOVEN WIRE FENCE CABLE GUARDRAIL CABLE GUARDRAIL CONSTRUCT CABLE AND MANHOLE BURENT CONSTRUCT WOVEN WIRE FENCE CABLE GUARDRAIL CABLE GUARDRAIL CONSTRUCT ON CABLE AND MANHOLE SANITARY SEWER EAND CONFEROLE SANITARY SEWER MAND STUMP EDGE OF WOODED AREA WETAND BUILDING WETAND BUILDING SANITARY SEWER MANDRAIL CABLE GUARDRAIL CONSTRUCT WIRE FENCE WOVEN WIRE FENCE CABLE GUARDRAIL CONSTRUCTION LIMITS SANITARY SEWER MANHOLE AND MANHOLE FREMORARY EASEMENT TEMPORARY EASEMENT TEMPORARY EASEMENT TEMPORARY EASEMENT TEMPORARY EASEMENT TEMPORARY EASEMENT TEMPORARY EASEMENT TEMPORARY EASEMENT CONSTRUCTION LIMITS SANITARY SEWER, MANHOLE AND CATCH BASIN CULVERT AND APRON ENDWALL DTCH, 'SWALE RIPRAP SIGN (NON STREET NAME)	* #	
FORCE MAIN AND LIFT STATION SANITARY SEWER SERVICE & CLEANOUT SANITARY SEWER SERVICE & CLEANOUT WATER MAIN, HYDRANT, VALVE AND MANHOLE WATER SANITARY SEWER, MANHOLE AND CATCH BASIN CULVERT AND APRON ENDWALL GAS MAIN, VALVE, VENT AND METER HANDHOLE BURIED FIBER OPTIC CABLE, PEDESTAL, AND MANHOLE BURIED FORCE CABLE, PEDESTAL, AND MANHOLE BURIED FLOCTIC CABLE, PEDESTAL, MANHOLE WET WETLAND WETLAND WETLAND BURIED FINCE CARAIN LINK FENCE CARAIN LINK FENCE CARAIN WIRE FENCE CONSTRUCTION LIMITS SANITARY SERVER MANHOLE AND CATCH BASIN CULVERT AND APRON ENDWALL CONSTRUCTION LIMITS SANITARY SERVER, MANHOLE AND CATCH BASIN CULVERT AND APRON ENDWALL CARAIN THE CARAIN THE SERVICE AND CURB STOP BOX STORM SERVER, MANHOLE AND CATCH BASIN CULVERT AND APRON ENDWALL CARAIN THE		
ANITARY SEWER SERVICE & CLEANOUT WATER SERVICE AND CURB STOP BOX STORM SEWER, MANHOLE AND CATCH BASIN STORM SEWER, MANHOLE AND CATCH BASIN CULVERT AND APRON ENDWALL CULVERT AND APRON ENDWALL CULVERT AND APRON ENDWALL CULVERT AND APRON EDUMALL CULVERT AND APRON ENDWALL BURED PHORE CABLE, PEDESTAL AND MANHOLE BURED PHORE CABLE, PEDESTAL AND MANHOLE BURED PHORE CABLE, PEDESTAL AND MANHOLE BURED POLE COVENHEAD WIRE FENCE OVENHEAD WIRE FENCE OVENHEAD WIRE FENCE DECIDUOUS AND CONFEROUS TREE BULDING FENCE CUNIDENTIFIED) BARRED WIRE FENCE VET WETLAND WET BULDING FENCE CULVER WIRE FENCE VET BARED WIRE FENCE VET	FM FM	
WATER SERVICE AND CURB STOP BOX STORM SEWER, MANHOLE AND CATCH BASIN CULVERT AND APRON ENDWALL GAS MAIN, VALVE, VENT AND METER HANDHOLE BURIED PHORE CABLE, PEDESTAL AND MANHOLE BURIED PHORE CABLE, PEDESTAL, MANHOLE, TRANSFORMER AND METER OVERHEAD WIRE, POLE AND GUY WIRE LIGHT POLE UIGHT POLE TRAFFIC SIGNAL STREET NAME SIGN SIGN (NON STREET NAME) RALROAD TRACKS DECIDUOUS AND CONIFEROUS TREE BUSH / SHRUB AND STUMP EDGE OF WOODED AREA WET WET WETLAND BUILDING FENCE (UNIDENTIFIED) BARRED WIRE FENCE CHAIN LINK FENCE CHAIN LINK FENCE LECTRIC WIRE FENCE HATE BAG MURD FENCE CHAIN LINK FENCE LECTRIC WIRE FENCE POST / BOLLARD RETAINING WALL 6+00 FERMENCE INTERLINE RIGHT-OF-WAY PERMANENT EASEMENT CONSTRUCTION LIMITS SANITARY SERVICE AND CLEANOUT WATER MAIN, TEE, HYDRANT, BULKHEAD AND VALVE WATER MAIN, TEE, HYDRANT, BULKHEAD AND CATCH BASIN CULVERT MAN APRON ENDWALL DENTRE SIGN SANITARY SERVICE AND CLEANOUT WATER MAIN, TEE, HYDRANT, BULKHEAD AND VALVE WATER VALVE MANHOLE AND CATCH BASIN CULVERT AND APRON ENDWALL DICTOL / SWALE RIPRAP SIGN (NON STREET NAME)	°co	
STORM SEWER, MANHOLE AND CATCH BASIN STORM SEWER, MANHOLE AND CATCH BASIN CULVERT AND APRON ENDWALL GAS MAIN, VALVE, VENT AND METER HANDHOLE BURIED FIBER OPTIC CABLE AND MANHOLE BURIED FIBER OPTIC CABLE, PEDESTAL AND MANHOLE BURIED PHONE CABLE, PEDESTAL, MANHOLE, TRANSFORMER AND METER VERTAR POH POH BURIED FOR CABLE, PEDESTAL, MANHOLE, BURIED FOR OPHONE CABLE, PEDESTAL, MANHOLE, TRANSFORMER AND METER DURCHEAD WIRE, POLE AND GUY WIRE LIGHT POLE STREET NAME SIGN SIGN (NON STREET NAME) RALROAD TRACKS DECIDUOUS AND CONFEROUS TREE BULDING FENCE (UNIDENTIFIED) BARBED WIRE FENCE WET WET WET BULDING FENCE (UNIDENTIFIED) BARBED WIRE FENCE PLATE BEAM GUARDRAIL OP PLATE BEAM GUARDRAIL OP PLATE BEAM GUARDRAIL OP PLATE BEAM GUARDRAIL OP		
CULVERT AND APRON ENDWALL GAS MAIN, VALVE, VENT AND METER HANDHOLE BURED FIBER OPTIC CABLE AND MANHOLE BURED FIBER OPTIC CABLE, PEDESTAL, AND MANHOLE BURED TV CABLE, PEDESTAL, MANHOLE, TRANSFORMER AND METER PROF PROF PROF COVENHEAD WIRE, POLE AND GUY WIRE LIGHT POLE COVENHEAD WIRE, POLE AND GUY WIRE LIGHT FOLE COVENHEAD WIRE, PEOLE AND GUY WIRE LIGHT FOLE COVENHEAD WIRE, PEOLE AND GUY WIRE LIGHT FOLE COVEN WIRE FENCE COVEN WIRE FENCE COVEN WIRE FENCE COVEN WIRE FENCE CONSTRUCTION LIMITS CONSTRUCTION LIMITS SANITARY SERVICE AND CLEANOUT WATER MAIN, TEE, HYDRANT, BULKHEAD AND MANHOLE FORCE MAIN SANITARY SERVICE AND CLEANOUT WATER MAIN, TEE, HYDRANT, BULKHEAD AND MANHOLE FORCE MAIN SANITARY SERVICE AND CLEANOUT WATER MAIN, TEE, HYDRANT, BULKHEAD AND VALVE WATER VALVE MANHOLE, REDUCER, BEND AND CROSS WATER SERVICE AND CLEANOUT WATER MAIN, TEE, HYDRANT, BULKHEAD AND MANHOLE FORCE MAIN SANITARY SERVICE AND CLEANOUT WATER MAIN, TEE, HYDRANT, BULKHEAD AND MANHOLE FORCE MAIN SANITARY SERVICE AND CLEANOUT WATER MAIN, TEE, HYDRANT, BULKHEAD AND VALVE WATER MAIN, TEE, HYDRANT, BULKHEAD AND MANHOLE FORCE MAIN SANITARY SERVICE AND CLEANOUT WATER MAIN, TEE, HYDRANT, BULKHEAD AND VALVE WATER MAIN, TEE, HYDRANT, BULKHEAD AND CROSS WATER SERVICE AND CURB STOP BOX STORM SEWER, MANHOLE, AND CATCH BASIN CULVERT AND APRON ENDWALL DICT. SWALE RIPRAP SIGN (NON STREET NAME) SIGN SIGN (NON STREET NAME)		
HANDHOLE BURIED FIBER OFTIC CABLE AND MANHOLE BURIED FIBER OFTIC CABLE, PEDESTAL, AND MANHOLE BURIED PHONE CABLE, PEDESTAL, MANHOLE, TRANSFORMER AND METER BURIED ELECTRIC CABLE, PEDESTAL, MANHOLE, TRANSFORMER AND METER UGHT POLE TRAFFIC SIGNAL STREET NAME SIGN SIGN (NON STREET NAME) BURIED TV CABLE, PEDESTAL, MANHOLE, TRAFFIC SIGNAL STREET NAME SIGN SIGN (NON STREET NAME) BURIED TV CABLE, PEDESTAL, MANHOLE, TRAFFIC SIGNAL STREET NAME SIGN SIGN (NON STREET NAME) BURIED TV CABLE, PEDESTAL, MANHOLE, TRAFFIC SIGNAL STREET NAME SIGN SIGN (NON STREET NAME) BURIED TV CABLE, PEDESTAL, MANHOLE TRAFFIC SIGNAL STREET NAME SIGN SIGN (NON STREET NAME) BURIED TV CABLE, PEDESTAL, MANHOLE BURIED TV CABLE, PEDESTAL, MANHOLE, TRAFFIC SIGNAL STREET NAME SIGN SIGN (NON STREET NAME) BURIED TV CABLE, PEDESTAL, MANHOLE BURIED TV CABLE, PEDESTAL, MANHOLE BURIED TV CABLE, PEDESTAL, MANHOLE STREET CENTERLINE ROUTENES WOODED AREA WETA WETA WETA BURIED TV CABLE, PEDESTAL, MANHOLE POST / BOLLARD RETAINING WALL BURIED TV CABLE, PEDESTAL, AND MANHOLE PORT / BURIED TIFIED) BARBED WIRE FENCE CHAIN LINK FENCE ELECTRIC WIRE FENCE WOOVEN WIRE FENCE WOOVEN WIRE FENCE PLATE BEAM GUARDRAIL POST / BOLLARD RETAINING WALL BURIED CONSTRUCTION LIMITS SANITARY SERVICE AND CLEANOUT WATER VALVE MANHOLE AND CARD AND VALVE WATER VALVE MANHOLE AND CARD AND VALVE WATER VALVE MANHOLE AND CARD AND VALVE WATER SERVICE AND CERNOT POR STORM SEWER, MANHOLE AND CARCH STORM SEWER, MANHOLE AND CARCH BASIN CULVERT AND APRON ENDWALL DRAIN THE DITCH / SWALE RIPRAP STREET NAME SIGN SIGN (NON STREET NAME)	>	
Image: Construction of the second		GAS MAIN, VALVE, VENT AND METER
TBUR TOULDED TY CABLE, PEDESTAL AND MANHOLE BURIED TY CABLE, PEDESTAL AND MANHOLE BURIED TY CABLE, PEDESTAL AND MANHOLE BURIED TY CABLE, PEDESTAL MANHOLE, TRANSFORMER AND METER POH OVERHEAD WIRE, POLE AND GUY WIRE LIGHT POLE TRAFFIC SIGNAL STREET NAME SIGN A SIGN (NON STREET NAME) RAILROAD TRACKS DECIDUOUS AND CONIFEROUS TREE BUILDING FENCE (UNIDENTIFIED) BARBED WIRE FENCE CHAIN LINK FENCE ELECTRIC WIRE FENCE WWET WOOD FENCE WOOT KOURD RAIL OR POST / BOLLARD RETAINING WALL OR POST / BOLLARD RETAINING WALL OR POST / BOLLARD BUILDING FENCE VATE ROARNAIL		
TV-BUR IVON BURIED TV CABLE, PEDESTAL, MANHOLE, BURIED ELECTRIC CABLE, PEDESTAL, MANHOLE, TRANSFORMER AND METER TRANSFORMER AND METER P-OH OVERHEAD WIRE, POLE AND GUY WIRE LIGHT POLE IGN (NON STREET NAME) RAILROAD TRACKS DECIDUOUS AND CONIFEROUS TREE BUSH / SHRUB AND STUMP EDGE OF WOODED AREA WETLAND BUILDING FENCE (UNIDENTIFIED) BARBED WIRE FENCE VOOD FENCE WOOD FENCE WOVEN WIRE FENCE PLATE BEAM GUARDRAIL CABLE GUARDRAIL OP POST / BOLLARD PROPOSED STREET CENTERLINE RIGHT-OF-WAY PROPOSED SANITARY SEWER, BULKHEAD AND MANHOLE FORCE MAIN VATER MAIN, TEA, HYDRANT, BULKHEAD AND VALVE WATER MAIN, TEA, HYDRANT, BULKHEAD AND VALVE WATER MAIN, TE, HYDRANT, BULKHEAD AND CATCH BASIN CULVERT AND APRON ENDWALL DRET TAME SIGN SIGN (NON STREET NAME SIGN SIGN (NON STREET NAME)	T T	
TRANSFORMER AND METER OVERHEAD WIRE, POLE AND GUY WIRE LIGHT POLE TRAFFIC SIGNAL STREET NAME SIGN SIGN (NON STREET NAME) RAILROAD TRACKS DECIDUOUS AND CONIFEROUS TREE BUSH / SHRUB AND STUMP EDGE OF WOODED AREA WET BUSH / SHRUB AND STUMP EDGE OF WOODED AREA WET BUILDING FENCE (UNIDENTIFIED) BAREBD WIRE FENCE C CHAIN LINK FENCE ELECTRIC WIRE FENCE WOOVEN WIRE FENCE WOOVEN WIRE FENCE WOOVEN WIRE FENCE PLATE BEAM GUARDRAIL CABLE GUARDRAIL OF POST / BOLLARD RETAINING WALL FM FM OF CONSTRUCTION LIMITS SANITARY SEWER, BULKHEAD AND MANHOLE FORCE MAIN WATER MAIN, TEE, HYDRANT, BULKHEAD AND VALVE WATER VALVE MANHOLE, REDUCER, BEND AND CROSS WATER SERVICE AND CLEANOUT WATER SERVICE AND CLEANOUT WATER MAIN, TEE, HYDRANT, BULKHEAD AND VALVE WATER SERVICE AND CLEANOUT WATER SERVICE AND CACH BASIN CULVERT AND APRON ENDWALL DITCH / SWALE RIPRAP STREET NAME SIGN SIGN (NON STREET NAME)		
POH → OVERHEAD WIRE, POLE AND GUY WIRE LIGHT POLE IGHT POLE STREET NAME SIGN SIGN (NON STREET NAME) A SIGN (NON STREET NAME) RAILROAD TRACKS DECIDUOUS AND CONIFEROUS TREE BUSH / SHRUB AND STUMP EDGE OF WOODED AREA WET WETLAND BUILDING FENCE (UNIDENTIFIED) BARBED WIRE FENCE CHAIN LINK FENCE WET WOOD FENCE WOOD FENCE WOOD FENCE WOOD FENCE WOOVEN WIRE FENCE PLATE BEAM GUARDRAIL CABLE GUARDRAIL OF POST / BOLLARD RETAINING WALL FINE CONSTRUCTION LIMITS SANITARY SEVER, BULKHEAD AND MANHOLE FORCE MAIN YATER VALVER MANHOLE AND CLEANOUT WATER VALVER MANHOLE AND CATCH BASIN CULVERT AND APRON ENDWALL CONSTRUCTION LIMITS SANITARY SERVICE AND CLEANOUT WATER VALVE MANHOLE AND CATCH BASIN CULVERT AND APRON ENDWALL DICH / SWALE RIPRAP STORM SERVER, MANHOLE AND CATCH BASIN CULVERT AND APRON ENDWALL DICH / SWALE RIPRAP STORM SERVER MANHOLE AND CATCH BASIN SIGN (NON STREET NAME)		
LIGHT POLE TRAFFIC SIGNAL STREET NAME SIGN SIGN (NON STREET NAME) RAILROAD TRACKS DECIDUOUS AND CONIFEROUS TREE BUSH / SHRUB AND STUMP EDGE OF WOODED AREA WET BUSH / SHRUB AND STUMP EDGE OF WOODED AREA WET BUILDING FENCE (UNIDENTIFIED) BARBED WIRE FENCE CHAIN LINK FENCE ELECTRURE FENCE WOOD FENCE WOOD FENCE PLATE BEAM GUARDRAIL CABLE GUARDRAIL OP POST / BOLLARD RETAINING WALL FM OF FM OF CONSTRUCTION LIMITS SANITARY SEWER, BULKHEAD AND MANHOLE FORCE MAIN WATER WAIN, TEE, HYDRANT, BULKHEAD AND VALVE WATER VALVE MANHOLE AND CATCH BASIN CULVERT AND APONO ENDWALL DITCH / SWALE RIPRAP STREET VALVE MANHOLE AND CATCH BASIN CULVERT AND APONO ENDWALL DITCH / SWALE RIPRAP SIGN (NON STREET NAME) SIGN (NON STREET NAME)	— P-OH — Ó— P-OH —	
STREET NAME SIGN SIGN (NON STREET NAME) RAILROAD TRACKS DECIDUOUS AND CONIFEROUS TREE BUSH / SHRUB AND STUMP EDGE OF WOODED AREA WET WETAND BUILDING FENCE (UNIDENTIFIED) BARBED WIRE FENCE XC CHAIN LINK FENCE ELECTRIC WIRE FENCE XWD WOOVEN WIRE FENCE PLATE BEAM GUARDRAIL CABLE GUARDRAIL CABLE GUARDRAIL CABLE GUARDRAIL CABLE GUARDRAIL CABLE GUARDRAIL CABLE GUARDRAIL CONSTRUCTION LIMITS SANITARY SERVICE AND CLEANOUT WATER MAIN, TEE, HYDRANT, BULKHEAD AND VALVE WATER VALVE MANHOLE, REDUCER, BEND AND CROSS WATER SERVICE AND CURB STOP BOX STORM SEWER, MANHOLE, REDUCER, BEND AND CROSS WATER SERVICE AND CURB STOP BOX STORM SEWER, MANHOLE, REDUCER, BEND AND CROSS WATER SERVICE AND CURB STOP BOX STORM SEWER, MANHOLE, REDUCER, BEND AND CROSS WATER SERVICE AND CURB STOP BOX STORM SEWER, MANHOLE AND CATCH BASIN CULVERT AND APRON ENDWALL DRAIN TILE DITCH / SWALE RIPRAP STREET NAME SIGN SIGN (NON STREET NAME)	*	
SIGN (NON STREET NAME) RAILROAD TRACKS DECIDUOUS AND CONIFEROUS TREE BUSH / SHRUB AND STUMP EDGE OF WOODED AREA WET		
ARILROAD TRACKS O BUSH / SHRUB AND CONIFEROUS TREE BUSH / SHRUB AND STUMP EDGE OF WOODED AREA WET WET WETLAND BUILDING FENCE (UNIDENTIFIED) BARBED WIRE FENCE CHAIN LINK FENCE WOOD FENCE WOOD FENCE WOOD FENCE WOOD FENCE WOOD FENCE WOOD FENCE PLATE BEAM GUARDRAIL O O O O PROPOSED STREET CENTERLINE RIGHT-OF-WAY PERMANENT EASEMENT TEMPORARY EASEMENT CONSTRUCTION LIMITS SANITARY SERVICE AND CLEANOUT WATER MAIN, TEE, HYDRANT, BULKHEAD AND VALVE WATER MAIN, TEE, HYDRANT, BULKHEAD AND VALVE WATER VALVE MANHOLE, REDUCER, BEND AND CROSS WATER SERVICE AND CLEANOUT WATER SERVICE AND CURB STOP BOX STORM SEWER, MANHOLE AND CATCH BASIN CULVERT AND APRON ENDWALL DRAIN TILE DITCH / SWALE RIPRAP </th <th>-^</th> <th></th>	- ^	
BUSH / SHRUB AND STUMP EDGE OF WOODED AREA WET BUILDING FENCE (UNIDENTIFIED) BARBED WIRE FENCE CHAIN LINK FENCE ELECTRIC WIRE FENCE WOOD FENCE PLATE BEAM GUARDRAIL CABLE GUARDRAIL POST / BOLLARD POST / BOLLARD PROPOSED STREET CENTERLINE RIGHT-OF-WAY PERMANENT EASEMENT TEMPORARY EASEMENT CONSTRUCTION LIMITS SANITARY SEWER, BULKHEAD AND MANHOLE FORCE MAIN WATER MAIN, TEE, HYDRANT, BULKHEAD AND VALVE WATER SERVICE AND CLEANOUT WATER SERVICE AND CLEANOUT SIGN (NON STREET NAME)		
BUSH / SHRUB AND STUMP EDGE OF WOODED AREA WET BUILDING FENCE (UNIDENTIFIED) BARBED WIRE FENCE CHAIN LINK FENCE ELECTRIC WIRE FENCE WOOD FENCE PLATE BEAM GUARDRAIL CABLE GUARDRAIL POST / BOLLARD POST / BOLLARD PROPOSED STREET CENTERLINE RIGHT-OF-WAY PERMANENT EASEMENT TEMPORARY EASEMENT CONSTRUCTION LIMITS SANITARY SEWER, BULKHEAD AND MANHOLE FORCE MAIN WATER MAIN, TEE, HYDRANT, BULKHEAD AND VALVE WATER SERVICE AND CLEANOUT WATER SERVICE AND CLEANOUT SIGN (NON STREET NAME)	6 [°] ¥ ⁶	DECIDUOUS AND CONFEROUS TREE
WET WETLAND BUILDING FENCE (UNIDENTIFIED) BARBED WIRE FENCE CHAIN LINK FENCE ELECTRIC WIRE FENCE WOOD FENCE WOVEN WIRE FENCE PLATE BEAM GUARDRAIL CABLE GUARDRAIL OPP POST / BOLLARD RETAINING WALL CABLE GUARDRAIL OPP POST / BOLLARD RETAINING WALL PROPOSED STREET CENTERLINE RIGHT-OF-WAY PERMANENT EASEMENT TEMPORARY EASEMENT TEMPORARY EASEMENT CONSTRUCTION LIMITS SANITARY SEWER, BULKHEAD AND MANHOLE FORCE MAIN SANITARY SERVICE AND CLEANOUT WATER MAIN, TEE, HYDRANT, BULKHEAD AND VALVE WATER VALVE MANHOLE, REDUCER, BEND AND CROSS WATER SERVICE AND CURB STOP BOX STORM SEWER, MANHOLE AND CATCH BASIN CULVERT AND APRON ENDWALL DRAIN TILE DITCH / SWALE RIPRAP STREET NAME SIGN SIGN (NON STREET NAME)		
WET WETLAND BUILDING FENCE (UNIDENTIFIED) BARBED WIRE FENCE CHAIN LINK FENCE ELECTRIC WIRE FENCE WOOD FENCE WOVEN WIRE FENCE PLATE BEAM GUARDRAIL CABLE GUARDRAIL OPP POST / BOLLARD RETAINING WALL CABLE GUARDRAIL OPP POST / BOLLARD RETAINING WALL PROPOSED STREET CENTERLINE RIGHT-OF-WAY PERMANENT EASEMENT TEMPORARY EASEMENT TEMPORARY EASEMENT CONSTRUCTION LIMITS SANITARY SEWER, BULKHEAD AND MANHOLE FORCE MAIN SANITARY SERVICE AND CLEANOUT WATER MAIN, TEE, HYDRANT, BULKHEAD AND VALVE WATER VALVE MANHOLE, REDUCER, BEND AND CROSS WATER SERVICE AND CURB STOP BOX STORM SEWER, MANHOLE AND CATCH BASIN CULVERT AND APRON ENDWALL DRAIN TILE DITCH / SWALE RIPRAP STREET NAME SIGN SIGN (NON STREET NAME)		EDGE OF WOODED AREA
** FENCE (UNIDENTIFIED) ** BARBED WIRE FENCE ** BARBED WIRE FENCE ** ELECTRIC WIRE FENCE ** WOOD FENCE ** WOVEN WIRE FENCE ** PLATE BEAM GUARDRAIL CABLE GUARDRAIL CABLE GUARDRAIL CABLE GUARDRAIL CABLE GUARDRAIL ** POST / BOLLARD RETAINING WALL RETAINING WALL ** PROPOSED ** STREET CENTERLINE ** RIGHT-OF-WAY ** PERMANENT EASEMENT ** CONSTRUCTION LIMITS ** SANITARY SEWER, BULKHEAD AND MANHOLE ** SANITARY SERVICE AND CLEANOUT ** WATER MAIN, TEE, HYDRANT, BULKHEAD AND VALVE ** WATER MAIN, TEE, HYDRANT, BULKHEAD AND VALVE ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **	WET	
** FENCE (UNIDENTIFIED) ** BARBED WIRE FENCE ** BARBED WIRE FENCE ** ELECTRIC WIRE FENCE ** WOOD FENCE ** WOVEN WIRE FENCE ** PLATE BEAM GUARDRAIL CABLE GUARDRAIL CABLE GUARDRAIL CABLE GUARDRAIL CABLE GUARDRAIL ** POST / BOLLARD RETAINING WALL RETAINING WALL ** PROPOSED ** STREET CENTERLINE ** RIGHT-OF-WAY ** PERMANENT EASEMENT ** CONSTRUCTION LIMITS ** SANITARY SEWER, BULKHEAD AND MANHOLE ** SANITARY SERVICE AND CLEANOUT ** WATER MAIN, TEE, HYDRANT, BULKHEAD AND VALVE ** WATER MAIN, TEE, HYDRANT, BULKHEAD AND VALVE ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **		
XC CHAIN LINK FENCE XE ELECTRIC WIRE FENCE WOOD FENCE WOOD FENCE WOVEN WIRE FENCE PLATE BEAM GUARDRAIL CABLE GUARDRAIL CABLE GUARDRAIL o ^P POST / BOLLARD RETAINING WALL RETAINING WALL O PROPOSED STREET CENTERLINE RIGHT-OF-WAY PERMANENT EASEMENT CONSTRUCTION LIMITS SANITARY SEWER, BULKHEAD AND MANHOLE FORCE MAIN SANITARY SERVICE AND CLEANOUT WATER MAIN, TEE, HYDRANT, BULKHEAD AND VALVE WATER MAIN, TEE, HYDRANT, BULKHEAD AND VALVE WATER VALVE MANHOLE, REDUCER, BEND AND CROSS WATER SERVICE AND CURB STOP BOX STORM SEWER, MANHOLE AND CATCH BASIN CULVERT AND APRON ENDWALL DRAIN TILE DITCH / SWALE RIPRAP STREET NAME SIGN SIGN (NON STREET NAME)	X	
XE ELECTRIC WIRE FENCE WOOD FENCE WOVEN WIRE FENCE PLATE BEAM GUARDRAIL CABLE GUARDRAIL OP POST / BOLLARD POST / BOLLARD RETAINING WALL BHOD STREET CENTERLINE RIGHT-OF-WAY PERMANENT EASEMENT CONSTRUCTION LIMITS SANITARY SEWER, BULKHEAD AND MANHOLE FORCE MAIN SANITARY SERVICE AND CLEANOUT WATER MAIN, TEE, HYDRANT, BULKHEAD AND VALVE WATER MAIN, TEE, HYDRANT, BULKHEAD AND VALVE WATER MAIN, TEE, HYDRANT, BULKHEAD AND CROSS WATER SERVICE AND CLEANOUT WATER SERVICE AND CURB STOP BOX STORM SEWER, MANHOLE, REDUCER, BEND AND CROSS WATER SERVICE AND APRON ENDWALL DRAIN TILE DITCH / SWALE RIPRAP STREET NAME SIGN SIGN (NON STREET NAME)	X	
WOOD FENCE WOVEN WIRE FENCE PLATE BEAM GUARDRAIL CABLE GUARDRAIL OP OP OP OP OP OP OP OP OP OP	XC	
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 →^P POST / BOLLARD RETAINING WALL →→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→		
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FM FORCE MAIN SANITARY SERVICE AND CLEANOUT WATER MAIN, TEE, HYDRANT, BULKHEAD AND VALVE WATER VALVE MANHOLE, REDUCER, BEND AND CROSS WATER SERVICE AND CURB STOP BOX STORM SEWER, MANHOLE AND CATCH BASIN CULVERT AND APRON ENDWALL DRAIN TILE DITCH / SWALE RIPRAP STORN STREET NAME SIGN L SIGN (NON STREET NAME)		
Image: Sanifaky Service and Cleanout Image: Sanifaky Service and	FM	
WATER VALVE MANHOLE, REDUCER, BEND AND CROSS WATER SERVICE AND CURB STOP BOX STORM SEWER, MANHOLE AND CATCH BASIN CULVERT AND APRON ENDWALL DRAIN TILE OTH BITCH / SWALE RIPRAP STGIN (NON STREET NAME)	● ^{CO}	SANITARY SERVICE AND CLEANOUT
WATER VALVE MANHOLE, REDUCER, BEND AND CROSS WATER SERVICE AND CURB STOP BOX STORM SEWER, MANHOLE AND CATCH BASIN CULVERT AND APRON ENDWALL DRAIN TILE OTH BITCH / SWALE RIPRAP STGIN (NON STREET NAME)		WATER MAIN TEE HYDRANT BUI KHEAD AND VALVE
Image: Storm Sewer, Manhole and Catch Basin Image: Storm Sewer, Manhole and Catch Basin Culvert and Apron Endwall Image: Storm Sewer, Manhole and Catch Basin Culvert and Apron Endwall Image: Storm Sewer, Manhole and Catch Basin Image: Storm Sewer, Manhole and Storm Sewer Image: Storm Sewer		
CULVERT AND APRON ENDWALL CULVERT APRON ENDWALL CULVERT APRON ENDWALL CULVERT AND APRON ENDWALL CULVERT APRON ENDWALL CULVERT AND APRON ENDWALL CULVERT		
STREET NAME SIGN SIGN (NON STREET NAME)		DITCH / SWALE
SIGN (NON STREET NAME)		
	-~ ⊥	

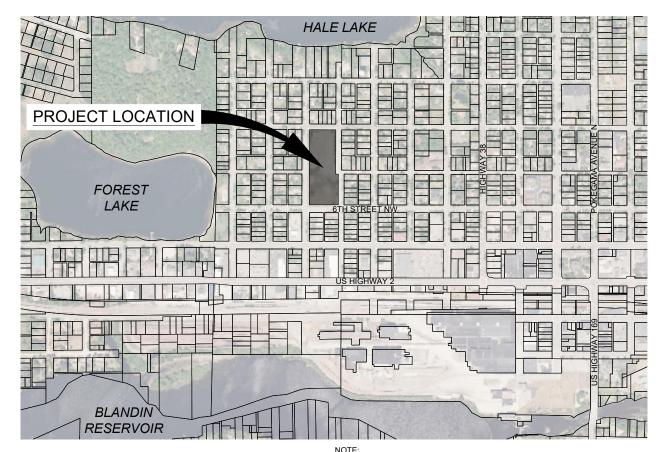
CITY OF GRAND RAPIDS, MINNESOTA

CONSTRUCTION PLANS FOR

REMOVALS, GRADING, SANITARY SEWER, WATER MAIN, STORM SEWER, CURB & GUTTER, BITUMINOUS, EROSION CONTROL

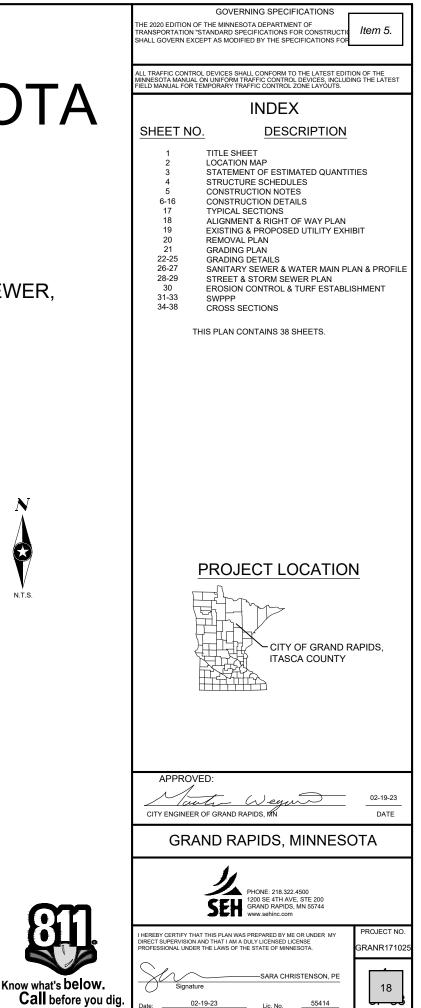
FOREST LAKE SITE UTILITIES

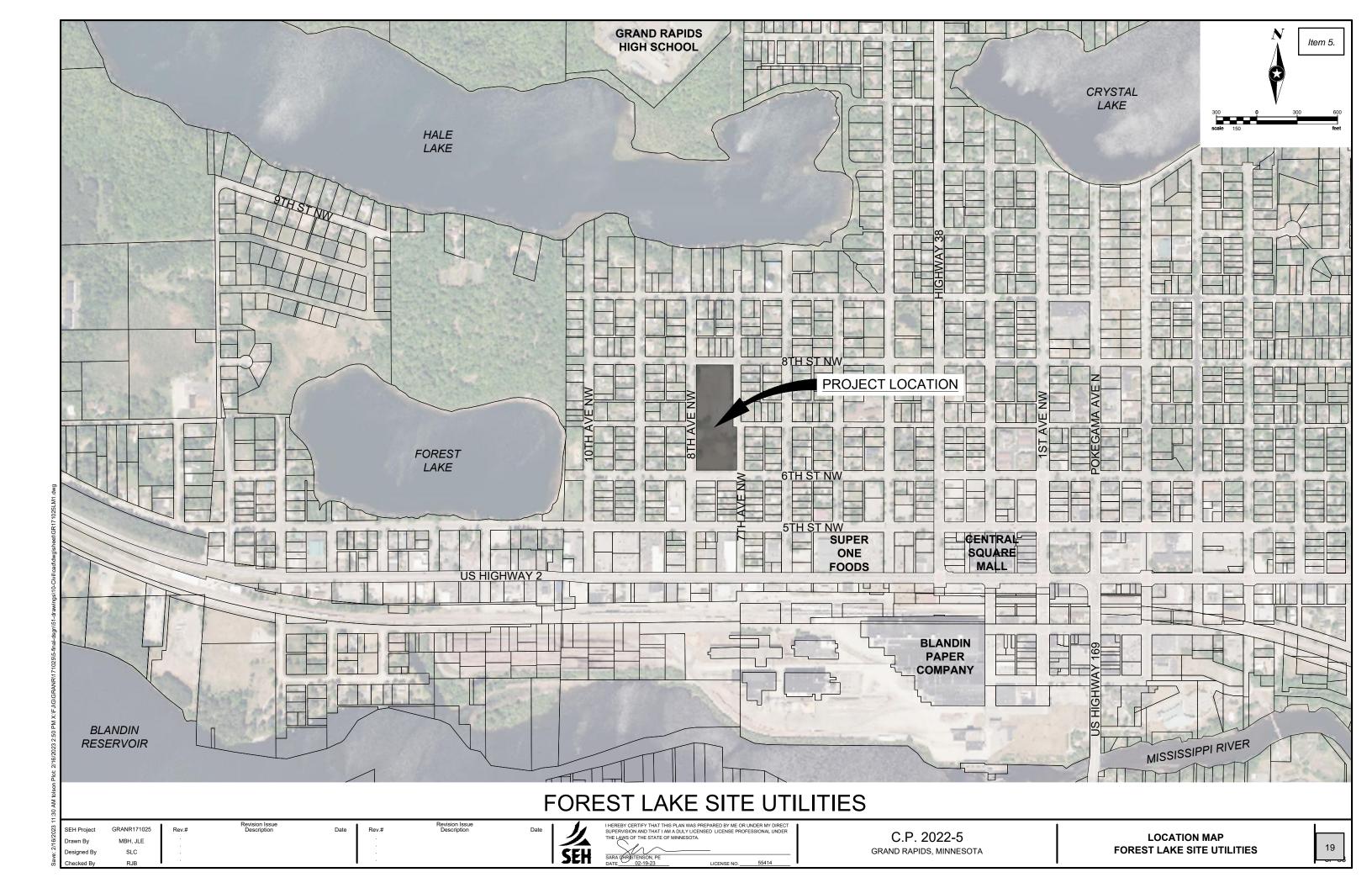
CITY PROJECT NO. 2022-5



NOTE: THE SUBSURFACE UTILITY QUALITY INFORMATION IN THIS PLAN IS LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02 ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

THE CONTRACTOR SHALL CALL THE GOPHER STATE ONE CALL SYSTEM AT 811 BEFORE COMMENCING EXCAVATION.





STATEMENT OF ESTIMATED QUANTITIES

un un d'		1			l		DREST LAKE		<u> </u>	<u>, </u>	07671	
NE IO.	ITEM	DESCRIPTION	UNITS	TOTAL	ROADWAY	SANITARY		WATER	WATER		STORM	
_	NO.				0.39	0.21	SERVICES 0.08	MAIN 0.22	SERVICES	WATER MAIN	SEWER	
		CONSTRUCTION SURVEYING	LUMP SUM		0.39	0.21	0.08	0.22	0.02		0.08	
_		CLEARING AND GRUBBING	LUMP SUM		0.39	0.21	0.08	0.22	0.02		0.08	FOR ALL CLEARING, GRUBBING AND TRIMMING OF TREES NO
		REMOVE HYDRANT	EACH	1	0.00	0.21	0.00	1	0.02		0.00	ALL TYPES AND SIZES
_		REMOVE CASTING	EACH	1		1						INCLUDES REMOVAL OF ADJUSTING RINGS
		SALVAGE CASTING	EACH	1							1	INCLUDES REMOVAL OF ADJUSTING RINGS
		REMOVE SIGN TYPE C	EACH	1	1							INCLUDES REMOVAL OF POST
T	2104.502	SALVAGE SIGN PANEL TYPE C	EACH	1	1							INCLUDES SALVAGING OF SIGN PANEL TYPE C AND REMOVAL
		REMOVE MANHOLE OR CATCH BASIN	EACH	3							3	INCLUDES REMOVAL OF CASTING
	2104.503	REMOVE CURB & GUTTER	LIN FT	607	607							ALL TYPES AND SIZES
		REMOVE SEWER PIPE (SANITARY)	LIN FT	15		15						ALL TYPES AND SIZES
_		REMOVE SEWER PIPE (STORM)	LIN FT	92							92	ALL TYPES AND SIZES
		REMOVE WATER MAIN	LIN FT	332				40		292		ALL TYPES AND SIZES - INCLUDES REMOVAL OF VALVES, VALV
		SAWING BITUMINOUS PVMT (FULL DEPTH)	LIN FT	740	740							ALL DEPTHS
		SAWING CONCRETE PVMT (FULL DEPTH)	LIN FT	94	94							ALL DEPTHS
		REMOVE BITUMINOUS PAVEMENT	SQ YD	904	904							ALL DEPTHS
			SQ YD	273	273							
÷			CU YD	738	738							SALVAGING TOPSOIL, STOCKPILING SALVAGED TOPSOIL AND
		SUBGRADE PREPARATION SUBGRADE PREPARATION	RD ST SQ YD	6	6.1 1320							6" DEPTH UNDER ALLEYWAY
		AGGREGATE SURFACING (CV) CLASS 5	CUYD	1320	1320		-					6" DEPTH UNDER WALKS, DRIVES AND ROADWAY PATCHES 4" DEPTH × 2' WIDTH SHOULDERING
		AGGREGATE BASE (CV) CLASS 5	CUYD	26 429	26 429				<u> </u>			9" DEPTH X 2 WIDTH SHOULDERING 9" DEPTH IN ROADWAYS - 6" DEPTH UNDER CONCRETE DRIM
_		BITUMINOUS PATCH SPECIAL	SQ YD	429 798	429 798				<u> </u>			POLY THE ROADWAYS - 6" DEPTH UNDER CONCRETE DRIVE ROADWAY PATCHES. INCLUDES PAVING (1.5" TYPE SP 9.5 WE
		TYPE SP 12.5 WEARING COURSE MIX (3,C) (1)	TON	167	167		-					115 LB/SYIN - 2.5" DEPTH ON ROADWAYS
		TYPE SP 9.5 WEARING COURSE MIX (3,C) (1)	TON	107	107							115 LB/SYIN - 1.5" DEPTH ON ROADWAYS
		CRUSHED ROCK	CUYD	148	101	49	16	59		16	8	EST HALF OF THE LENGTH OF SANITARY MAINS, WATER MAINS
_		4" PERF PE PIPE DRAIN	LIN FT	91	91	-10						INCLUDES GEOTEXTILE SOCK , FITTINGS AND 4" CAPS
_		4" PIPE DRAIN CLEANOUT	EACH	22	01		22					INCLUDES FITTINGS, RISER, THREADED CAP, TRACER SYSTE
-		2" INSULATION	SQ YD	29				29				
		15" RC PIPE SEWER CLASS III	LIN FT	141							141	
+		8" × 4" WYE	EACH	22			22					
		CONNECT TO EX. SANITARY SEWER	EACH	6		6						CONNECTION TO EXISTING SANITARY SEWER PIPE
		CONNECT TO EX. STORM SEWER	EACH	2							2	CONNECTION TO EXISTING STORM SEWER PIPE OR STRUCT
		4" PVC SANITARY SERVICE PIPE	LIN FT	403			403					INCLUDES TRACER WIRE
t	2503.603	8" PVC PIPE SEWER	LIN FT	879		879						INCLUDES TRACER WIRE
		SANITARY SEWER INSPECTION	LIN FT	859		859						TELEVISING OF ALL NEW SANITARY SEWER MAINS
t	2504.602	INSTALL 1" CORPORATION STOP	EACH	22					22			INSTALLATION OF A CITY SUPPLIED CORPORATION STOP
t	2504.602	INSTALL 1" CURB STOP AND BOX	EACH	22					22			FOR INSTALLATION OF CITY SUPPLIED CURB STOP AND CON
T	2504.602	6" GATE VALVE AND BOX	EACH	7				7				INCLUDES CENTERING ATTENUATOR
Γ	2504.602	CONNECT TO EXISTING WATER MAIN	EACH	6				6				
Γ	2504.602	HYDRANT	EACH	2				2				8.5' BURY
	2504.602	ADJUST VALVE BOX	EACH	2				2				FOR ADJUSTMENT OF EXISTING VALVE BOXES
	2504.603	1" TYPE K COPPER PIPE	LIN FT	381					381			PIGTAIL IS INCIDENTAL
		6" WATER MAIN DUCTILE IRON CL 52	LIN FT	1347				1055		292		
		HYDRANT RISER	LIN FT	1				1				ESTIMATE - AS DIRECTED BY THE ENGINEER
		WATER MAIN FITTINGS	POUND	540			540					BASED ON WEIGHTS OF COMPACT FITTINGS FROM AWWA C1
		CASTING ASSEMBLY	EACH	10		5					5	INCLUDES ADJUSTMENT FOR WEARING COURSE PLACEMENT
			EACH	1							1	INCLUDES ADJUSTMENT FOR WEARING COURSE PLACEMENT
		CONST DRAINAGE STRUC. DES 48-4020	EACH	5							5	MINIMUM 5' DEPTH FROM TOP OF CASTING TO BOTTOM OF BA
		CONST DRAINAGE STRUC. DESIGN F	EACH	4		4						
		CONST DRAINAGE STRUC. DESIGN F	LIN FT	12.23		12.23					_	ADDITIONAL SANITARY MANHOLE DEPTH OVER 8'
		SEAL MANHOLE OR CATCH BASIN	EACH	9		4					5	GATOR WRAP ON ALL RINGS AND SEAMS OF NEW SANITARY I
			EACH	1							1	REPAIR OF MANHOLE WITH BLOCK AND MORTAR AFTER STO
			SQ FT	2145	2145							
			SQ FT	248	248							
		CONCRETE CURB & GUTTER DESIGN B618	LIN FT	730	730							
			SQ YD	67	67							FOR COMMERCIAL DRIVEWAYS
_		CONCRETE CURB DESIGN V	LIN FT	36	36							
			SQ FT	28	28.4	0.04	0.00	0.00	0.00		0.00	
			LUMP SUM		0.39	0.21	0.08	0.22	0.02		0.08	
		INSTALL SIGN TYPE C	EACH	1	1	0.04	0.00	0.00	0.00		0.00	INCLUDES INSTALLATION OF SALVAGED SIGN PANEL TYPE C C
			LUMP SUM		0.39	0.21	0.08	0.22	0.02		0.08	INCLUDES INSTALLATION AND MAINTENANCE FOR THE DURAT INLET PROTECTION FOR NEW AND EXISTING STORM STRUCT
			EACH	19	19							
			LIN FT	800	800							
			CU YD	355	355							ESTIMATED 3" DEPTH FOR ALL SEEDING AREAS
			ACRE	1	0.88							
			GAL	0	0.22							0.5 GALLON PER ACRE SPRAYED
			ACRE	0	0.44							0.5 ACRE PER ACRE SEEDED 200 LB PER ACRE
		SEED MIXTURE MNST-12	POUND	176	176		-		-			
		MOWING	ACRE	2	1.76							
	2575.523		MGAL	19.21	19.21	0.04	0.08	0.22	0.00		0.08	FOR WATERING TURF/TREES/PLANTINGS
		EROSION CONTROL	LUMP SUM	1 4259	0.39 4259	0.21	0.00	0.22	0.02		0.00	FOR ALL ITEMS REQUIRED TO MEET NPDES PERMIT REQUIRE

NOTES:

(P) DENOTES ITEM IS A PLANNED QUANTITY
 (CV) DENOTES A COMPACTED VOLUME
 (1) DENOTES THAT BITUMINOUS TACK COAT IS INCIDENTAL

HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LICENSE PROFESSIONAL UNDER THE LAWS OF THE STATE OF MINNESOTA. Revision Issue Description Revision Issue Description GRANR171025 Date Rev.# SEH Project Rev.# Date C.P. 2022-5 么 SEH MBH, JLE Drawn By SARA OHRISTENSON, PE DATE 02-19-23 GRAND RAPIDS, MINNESOTA signed By SLC R.IB 55414 Checked By LICENSE NO

NOTES

OT SHOWN ON PLAN AS DIRECTED BY THE ENGINEER

AL OF POST

ALVE BOXES AND FITTINGS

ID PLACEMENT OF SALVAGED TOPSOIL SHALL BE CONSIDERED INCIDENTAL

RIVE - 4" DEPTH UNDER CONCRETE WALK VEARING COURSE MIX & 2.5" TYPE SP 12.5 WEARING COURSE MIX) AND AGGREGATE BASE (CV) CL5 (6")

INS, SANITARY SERVICES AND STORM PIPES x 12" DEPTH x 3' WIDTH

TEM, TERM. BOX & 8" CASTING

CTURE

NTRACTOR SUPPLIED CURB BOX (INCLUDES CONTRACTOR SUPPLIED TRACER WIRE TERMINATION BOX)

C153/A21.53-94 BASE

Y MANHOLE AND NEW STORM STRUCTURES ORM PIPE REMOVAL

C ON A NEW SQUARE POST WITH BREAKAWAY MOUNT ATION OF PROJECT CTURES

REMENTS SHOWN OR NOT SHOWN ON PLANS

STATEMENT OF ESTIMATED QUANTITIES FOREST LAKE SITE UTILITIES

	SANITARY TABULATION												
FLOWS FROM	FLOWS TO	NORTHING	EASTING	TYPE	CASTING ASSEMBLY TYPE	TOP OF CASTING ELEV	INLET ELEV	OUTLET ELEV	STRUCTURE DEPTH	ADDITIONAL DEPTH (LF) OVER 8 FEET	PIPE LIN FT	PIPE	
1		177386.46	548293.54	48 in MH	716/700-7	1290.36	1280.81 1280.91	1280.81	9.55	1.55	247	8" SDR-35 PVC	
2	1	177386.80	548101.82	48 in MH	716/700-7	1297.23	1285.80	1285.70	11.53	3.53	192	8" SDR-35 PVC	
3	2	177704.28	548100.67	48 in MH	716/700-7	1301.57	1289.40	1289.30	12.27	4.27	317	8" SDR-35 PVC	
4	3	178054.28	548099.40	48 in MH	716/700-7	1317.78		1306.90	10.88	2.88	350	8" SDR-35 PVC	

	DRAINAGE TABULATION													
FLOWS FROM FLOWS TO NORTHING EASTING TYPE CASTING ASSEMBLY TYPE TOP OF CASTING ELEV INLET ELEV OUTLET ELEV LIN FT									PIPE					
101		177650.25	548262.98	48 -4020 CB	805/814A/823A	1299.74	1294.76	1294.66	26	EXISTING 12"				
102	101	177630.58	548238.54	48 -4020 CB	805/814A	1299.77	1295.25	1295.15	31	15" RCP CLASS III				
103	102	177631.03	548139.37	48 -4020 CB	805/814A/823A	1299.83	1296.59	1296.49	99	15" RCP CLASS II				
104	103	177631.08	548128.19	48 -4020 CB	805/814A/823A	1299.91		1296.73	11	15" RCP CLASS II				
201		177664.20	547949.14	48 -4020 CB	805/814A	1299.32		1294.70	41	EXISTING 10"				

SEH Project	GRANR171025	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date		I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LICENSE PROFESSIONAL UNDER	
Drawn By	MBH, JLE	•							THE LAWS OF THE STATE OF MINNESOTA.	C.P. 2022-5
Designed By	SLC							CEL	SARA GHRISTENSON, PE	GRAND RAPIDS, MINNESOTA
Checked By	RJB	· ·			·			SEH	DATE 02-19-23 LICENSE NO. 55414	

ltem 5.

PROPOSED WATER SCHEDULE								
STRUCTURE	NORTHING	EASTING						
CONNECT TO EXISTING 6" WATER MAIN (2X) PL 6" x 6" DI MJ TEE PL 6" DI MJ SLEEVE CONTRACTOR TO VERIFY ELEVATION AND LOCATION	177398.60	548284.38						
CONNECT TO EXISTING 6" WATER MAIN (2X) PL 6" x 6" DI MJ TEE PL 6" DI MJ SLEEVE CONTRACTOR TO VERIFY ELEVATION AND LOCATION	178085.55	548261.79						
CONNECT TO EXISTING WATER MAIN PL 5 LIN FT 6" DI WATER MAIN PL 6 " GATE VALVE & BOX	177641.74	547960.16						
PL 6 " GATE VALVE & BOX	177646.70	548112.88						
PL 6 " GATE VALVE & BOX	177665.74	547965.31						
PL 6 " GATE VALVE & BOX PL 3 LIN FT 6" DI WATER MAIN CONNECT TO EXISTING WATER MAIN (TEE) CONTRACTOR TO VERIFY LOCATION	177641.71	548258.71						
PL 6" 45° DI MJ BEND	177398.78	548118.76						
PL 6" 45° DI MJ BEND	177403.81	548113.76						
PL 6" 45° DI MJ BEND	178076.19	548111.32						
PL 6" 45° DI MJ BEND	178086.10	548121.28						
PL 6" GATE VALVE & BOX	177398.61	548274.03						
PL 6" GATE VALVE & BOX	178085.56	548256.23						
PL 6" GATE VALVE & BOX PL HYDRANT	178078.09	548121.74						
PL 6" x 6" DI MJ TEE	177641.74	547965.16						
PL 6"x6" DI MJ CROSS	177641.71	548112.89						
PL 6"x6" DI MJ TEE	178082.39	548117.55						
PL HYDRANT	177671.74	547965.35						

STRUCTURE SCHEDULES FOREST LAKE SITE UTILITIES

GENERAL CONSTRUCTION NOTES:

- ALL WORK SHALL CONFORM TO APPLICABLE LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS.
- 2. CONSTRUCTION LIMITS ARE THE RIGHT OF WAY UNLESS NOTED OTHERWISE.
- ALL SEWER INVERTS, ELEVATIONS & GRADES ARE COMPUTED CENTER-TO CENTER OF STRUCTURES. PIPES THAT INCLUDE APRONS DISPLAY THE TOTAL PIPE AND 3. APRON LENGTH ON THE PLAN, HOWEVER PAID QUANTITY WILL REFLECT ACTUAL PIPE LENGTH (MINUS APRON).
- TREES TO BE CLEARED AND GRUBBED ARE DESIGNATED BY A C OR WITH AN "X" ON PLANS. NO TREE SHALL BE CLEARED UNLESS MARKED BY THE ENGINEER IN 4. FIELD
- THE LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL HAVE ALL UTILITIES LOCATED IN THE FIELD 5. BEFORE DIGGING. THERE WILL BE NO ADDITIONAL COMPENSATION TO THE CONTRACTOR FOR WORKING AROUND EXISTING UTILITIES.
- CONTRACTOR TO CONTACT UTILITY COMPANIES TO RELOCATE UTILITIES AS REQUIRED.
- TRAFFIC CONTROL SHALL COMPLY WITH MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. SEE FIELD MANUAL LATEST VERSION. 7.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DISPOSE OFF-SITE ALL TREES, STUMPS, BRUSH OR OTHER DEBRIS THAT EXISTS WITHIN THE CONSTRUCTION 8. AREAS, NO BURNING IS PERMITTED.
- CONSTRUCT ALL RADII AS PER PLANS. RADII SHOWN ARE TO GUTTER LINE/FACE OF CURB FOR CURB AREAS. 9.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE 10. CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER AND AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- SAW-CUT BITUMINOUS AS DIRECTED BY THE ENGINEER PRIOR TO REMOVAL. THE CONTRACTOR SHALL SAWCUT PAVEMENT AS INDICATED ON THE PLANS TO 11. SEPARATE THE EXISTING MATERIAL TO BE REMOVED BY MEANS OF AN APPROVED SAW. SUITABLE GUIDELINES OR DEVICES SHALL BE USED TO ASSURE CUTTING A NEAT, STRAIGHT LINE AS SHOWN ON THE PLANS. CARE SHALL BE TAKEN BY THE CONTRACTOR SO AS NOT TO DAMAGE THE REMAINING MATERIALS DIRECTLY ADJACENT TO THE MATERIALS TO BE REMOVED. ANY DAMAGE TO THE EXISTING MATERIAL RESULTING FROM THE MATERIAL REMOVAL OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL FOLLOW FEDERAL REQUIREMENTS FOR DUST CONTROL.
- CONTRACTOR SHALL SALVAGE ALL TOPSOIL AND REUSE ON SITE WHERE NEEDED, EXCEPT WHERE NOTED. SALVAGING OF TOPSOIL IS INCIDENTAL IN COMMON 12. EXCAVATION. ALL TOPSOIL SHALL BE TESTED ACCORDING TO PROJECT SPECIFICATIONS.
- 13. CONTRACTOR SHALL VERIFY INVERTS ON EXISTING UTILITIES PRIOR TO INSTALLATION OF STRUCTURES OR PIPES.
- 14. MAINTENANCE OF HAUL ROADS SHALL BE INCIDENTAL TO CONSTRUCTION.
- 15. CONTRACTOR SHALL VERIFY WIDTH OF PROPOSED DRIVEWAYS AND LOCATION OF DRIVEWAY CURB OPENINGS WITH ENGINEER IN THE FIELD PRIOR TO CONSTRUCTION.
- 16. REMOVE AND RECONSTRUCT DRIVEWAY SURFACES AS SHOWN ON PLANS UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER OR THEIR REPRESENTATIVE.
- CASTING REMOVAL SHALL BE INCIDENTAL TO MANHOLE / CATCH BASIN REMOVAL. CASTINGS SHALL BECOME PROPERTY OF THE CONTRACTOR. 17.
- 18. WHEN EVER THE WORD "INCIDENTAL" IS USED IN THIS PLAN SET, IT SHALL MEAN NO DIRECT COMPENSATION WILL BE MADE.
- 19. CONTRACTOR SHALL PROVIDE ACCESS TO ALL PROPERTIES, UNLESS ALTERNATE PROVISIONS ARE APPROVED BY THE PROPERTY OWNER AND THE ENGINEER.
- 20. CONTRACTOR SHALL NOTIFY ALL PROPERTY OWNERS A MINIMUM OF 48 HRS IN ADVANCE OF DISRUPTION TO SERVICE.
- CONTRACTOR SHALL SUPPLY A TRASH CONTAINER ON SITE FOR CONSTRUCTION DEBRIS/TRASH. ABSOLUTELY NO TRASH TO BE DISCARDED IN EXCAVATIONS. 21. CONTRACTOR SHALL ENSURE TRASH IS COLLECTED FROM WORK ACTIVITIES AND DISCARDED IN APPROPRIATE TRASH CONTAINERS DAILY.
- 22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING AND REPAIRING ALL EXISTING AREAS, PAVEMENTS, STRUCTURES OR OTHER FACILITIES DAMAGED DURING CONSTRUCTION ACTIVITIES TO EQUAL OR BETTER CONDITIONS.
- 23. TRACER WIRE SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
- ANY TRIMMING OF BRANCHES / TREES REQUIRED FOR CONSTRUCTION SHALL BE INCIDENTAL TO CLEARING AND GRUBBING. THIS WILL INCLUDE ANY DEAD BRANCHES 24. AFTER SUBSTANTIAL COMPLETION.
- 25. CONTRACTOR SHALL TAKE CARE TO MINIMIZE REMOVAL OF TREES. IF EXISTING TREE CAN BE MAINTAINED NEXT TO AN ADJACENT SERVICE IT SHALL NOT BE REMOVED
- 26. WHENEVER "PLACE" (PL) IS USED IN THIS PLAN SET IT DENOTES PLACEMENT OF A CONTRACTOR SUPPLIED ITEM. WHENEVER "INSTALL" (INST) IS USED IN THIS PLAN SET IT DENOTES INSTALLATION OF AN ITEM SUPPLIED BY OTHERS OR INSTALLATION OF A SALVAGED ITEM.
- 27. ALL SIDEWALK JOINTS SHALL BE SAWCUT AT CURB JOINTS UNLESS REQUESTED OTHERWISE BY THE ENGINEER

TURF ESTABLISHMENT NOTES:

- 1. CONTRACTOR SHALL TAKE CARE TO MINIMIZE PROJECT DISTURBANCE AND KEEP THE SEEDING AREA PER THE PLAN.
- 2. IF THE ENGINEER DETERMINES THAT EXCESS SEEDING AREAS WERE NOT NECESSARY FOR CONSTRUCTION, TURF ESTABLISHMENT IN THESE AREAS WILL BE THE CONTRACTOR'S RESPONSIBILITY.
- 3. CONTRACTOR SHALL PLACE 7" OF TOPSOIL PRIOR TO SETTLEMENT. BOTTOM OF TOPSOIL SHALL BE 6" LOWER THAN ADJACENT HARD SURFACE. FINAL TOPSOIL SURFACE GRADE SHALL MATCH ADJACENT HARD SURFACES.

EROSION CONTROL NOTES:

- 1. CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL EROSION CONTROL MEASURES AS SHOWN OR NOT SHOWN ON THESE PLANS AND SPECIFICATIONS AND ITEMS REQUESTED BY THE ENGINEER DURING CONSTRUCTION. ALL WORK THAT IS NOT INCLUDED IN PAY ITEMS SHALL BE DEEMED INCIDENTAL TO CONTRACTOR.
- SHALL RESPOND WITHIN 4 HOURS. IF THE CONTRACTOR DOES NOT COMPLY, A \$250 PENALTY WILL BE ASSESSED PER INCIDENT
- CITY. THE CONTRACTOR SHALL BE A CO-PERMITEE
- COMPLY, A \$250 PENALTY WILL BE ASSESSED PER INCIDENT.
- 6. INLET PROTECTION IS PAID PER EXISTING OR PROPOSED STRUCTURE (EACH). EXISTING STRUCTURES ON OR ADJACENT TO THE PROJECT RECEIVE A DROP IN FILTER BAG. CLEANING AND MAINTENANCE OF INLET PROTECTION SHALL BE CONSIDERED INCIDENTAL

TRAFFIC CONTROL NOTES:

- 1. CONTRACTOR SHALL SUPPLY A TRAFFIC CONTROL PLAN FOR ALL WORK.
- 2. TRAFFIC CONTROL PLANS SHALL BE SUBMITTED AT THE PRE-CONSTRUCTION MEETING, OR AT LEAST 2 WEEKS IN ADVANCE OF CONSTRUCTION ACTIVITIES COMMENCING. ENGINEER SHALL REVIEW AND APPROVE ALL TRAFFIC CONTROL PLANS.
- 3. ACCESS MUST BE PROVIDED AT ALL TIMES TO RESIDENTS

PHASING/BITUMINOUS PAVING:

1. CONTRACTOR SHALL SUBMIT A PHASING PLAN FOR THE PROJECT PRIOR TO THE PRECONSTRUCTION MEETING FOR APPROVAL BY THE ENGINEER.

070	SEH Project	GRANR171025	Rev.#	Description	Date	Rev.#	Description	Date	I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LICENSE PROFESSIONAL UNDER	
0	Drawn By	MBH, JLE						2	THE LAWS OF THE STATE OF MINNESOTA.	C.P. 2022-5
4	Designed By	SLC							SARA CHRISTENSON, PE	GRAND RAPIDS, MINNESOTA
ca Ca	Checked By	RJB								

IMPLEMENT ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY IN ORDER TO PROTECT ADJACENT PROPERTY. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR MAINTENANCE AND IMPLEMENTATION OF STORM WATER EROSION CONTROL ITEMS TO COMPLY WITH THE NPDES PERMIT REQUIREMENTS. THIS INCLUDES GEOTEXTILE FABRIC ON SLOPES/ ROADWAYS SUSCEPTIBLE TO EROSION. ADDITIONAL ITEMS REQUESTED BY THE MPCA AND ANY OTHER CONSTRUCTION. ANY PENALTIES IMPOSED ON THE COUNTY OR THE CONTRACTOR AS A RESULT OF STORMWATER ISSUES WILL BE PAID COMPLETELY BY THE

2. WATER FOR ON SITE DUST CONTROL SHALL BE INCIDENTAL TO CONSTRUCTION. WHEN A WATER TRUCK IS REQUESTED BY THE ENGINEER, THE CONTRACTOR

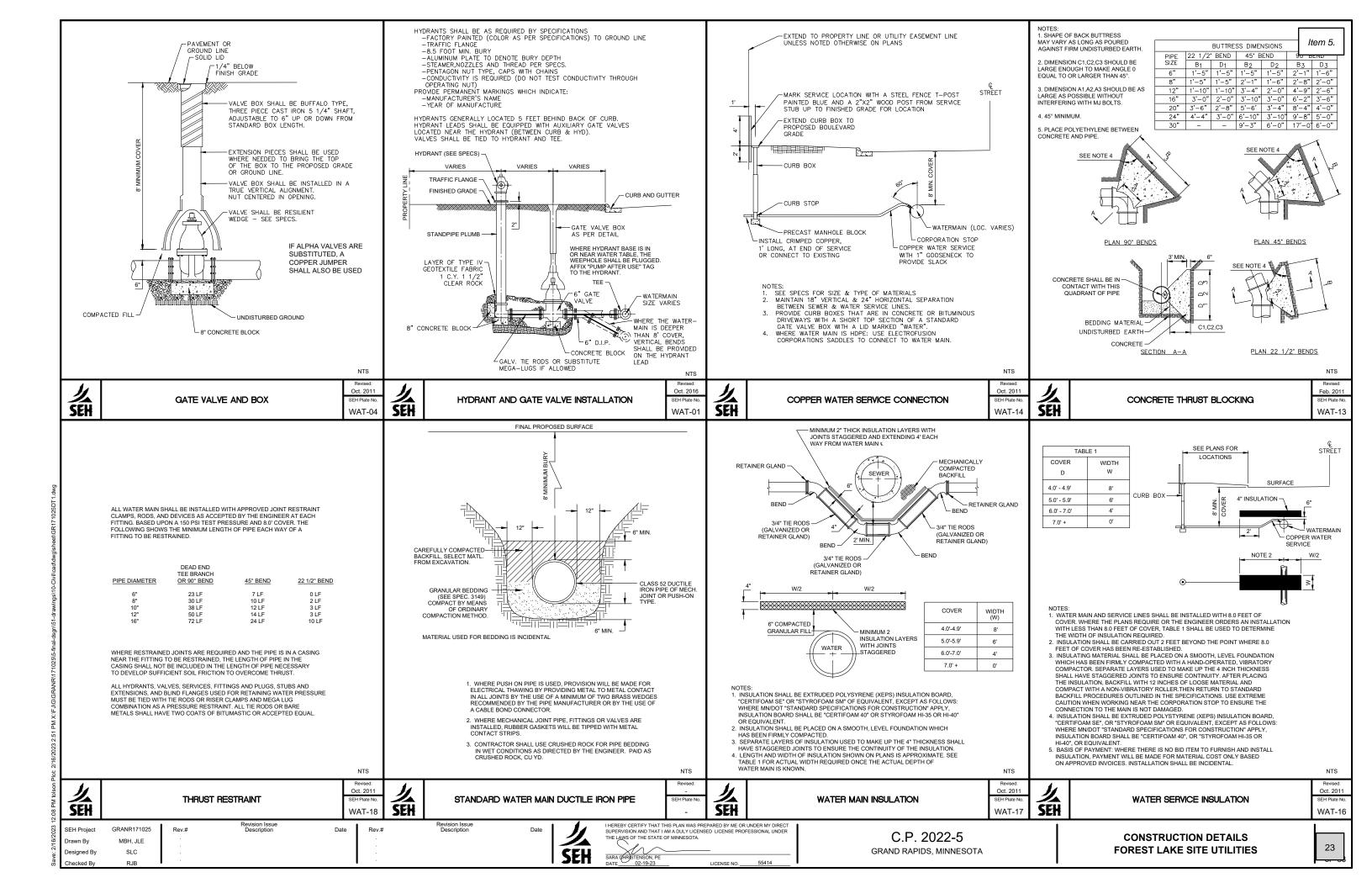
3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND PAY ALL FEES AS REQUIRED BY THE CONSTRUCTION COVERED IN THESE PLANS. THE CONTRACTOR SHALL OBTAIN THE CITY OF GRAND RAPIDS STORMWATER POLLUTION PREVENTION PERMIT. THE MPCA NPDES PERMIT IS PAID FOR BY THE

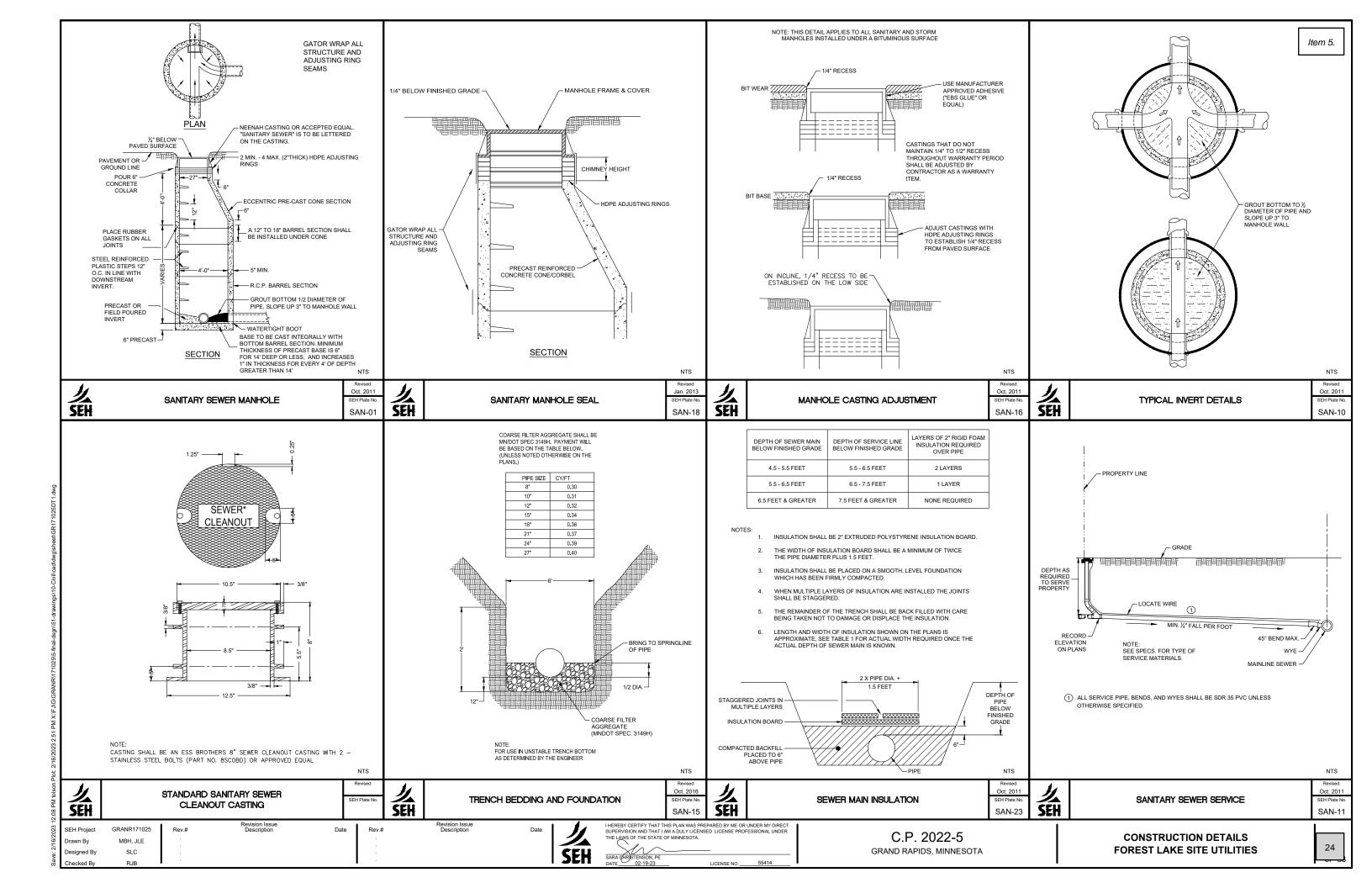
4. WHEN STREET SWEEPING IS REQUESTED BY THE OWNER/ENGINEER, THE CONTRACTOR SHALL RESPOND WITHIN 4 HOURS. IF THE CONTRACTOR DOES NOT

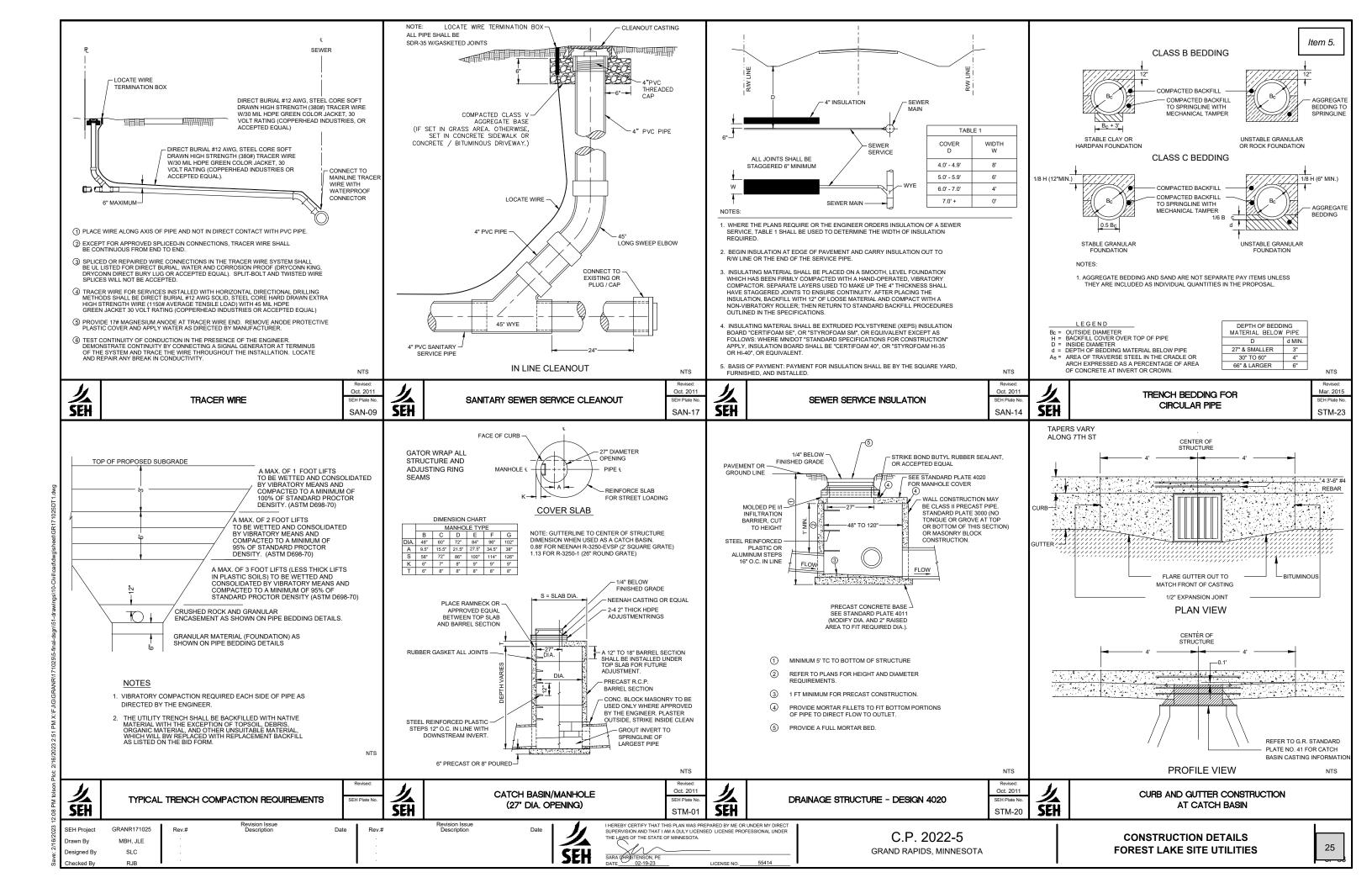
CONTRACTOR SHALL CONSTRUCT AND MAINTAIN STABILIZED CONSTRUCTION EXITS AT ALL LOCATION WHERE TRAFFIC LEAVES THE CONSTRUCTION SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE STABILIZED CONSTRUCTION EXITS MAINTENANCE AND REPAIR ARE INCLUDED IN THE BID

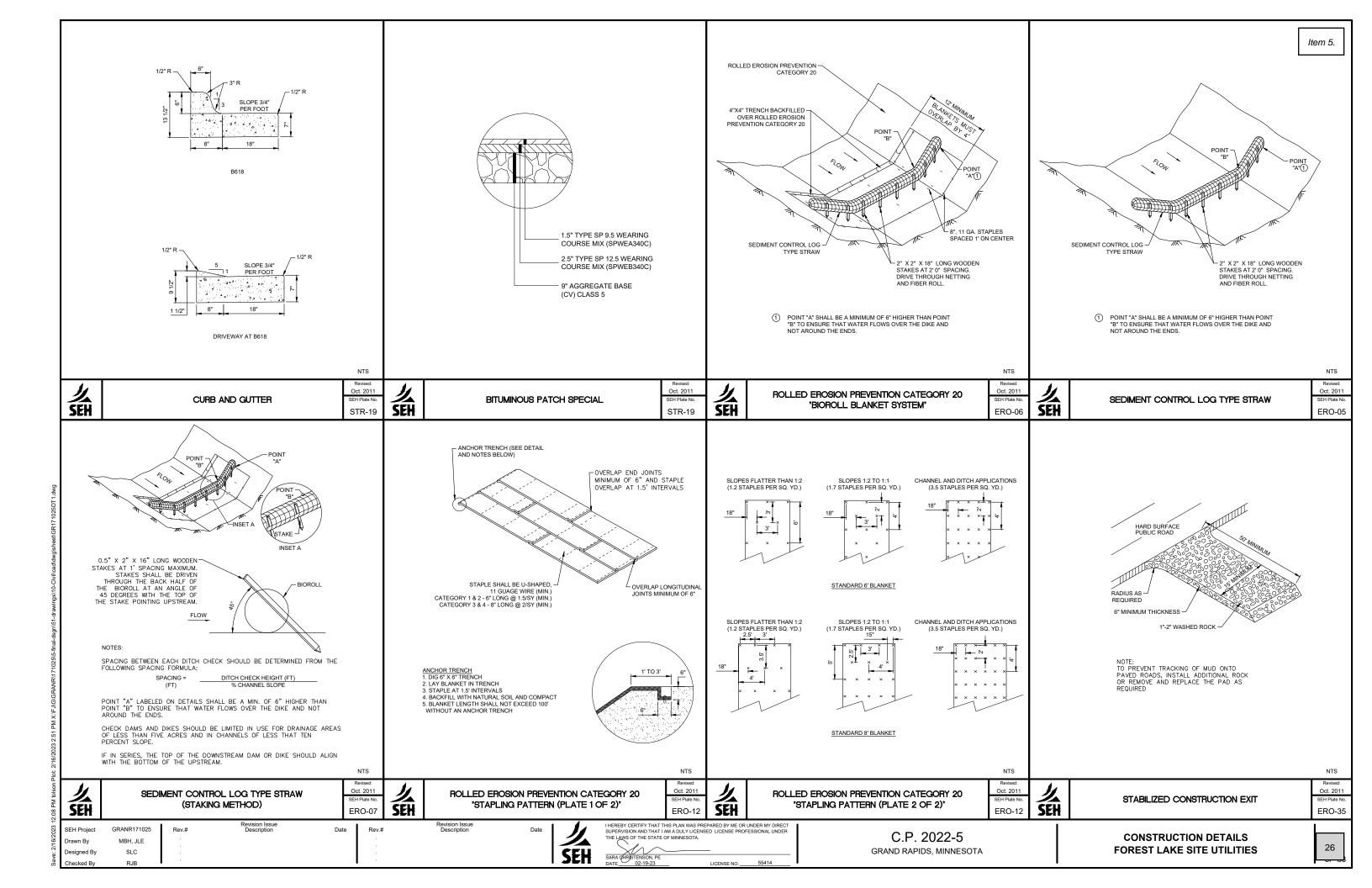
FILTER BAG. NEW STRUCTURES INITIALLY RECEIVE A SILT FENCE BOX. ONCE THE CASTING IS SET ON A NEW STRUCTURE IT SHALL RECEIVE A DROP IN

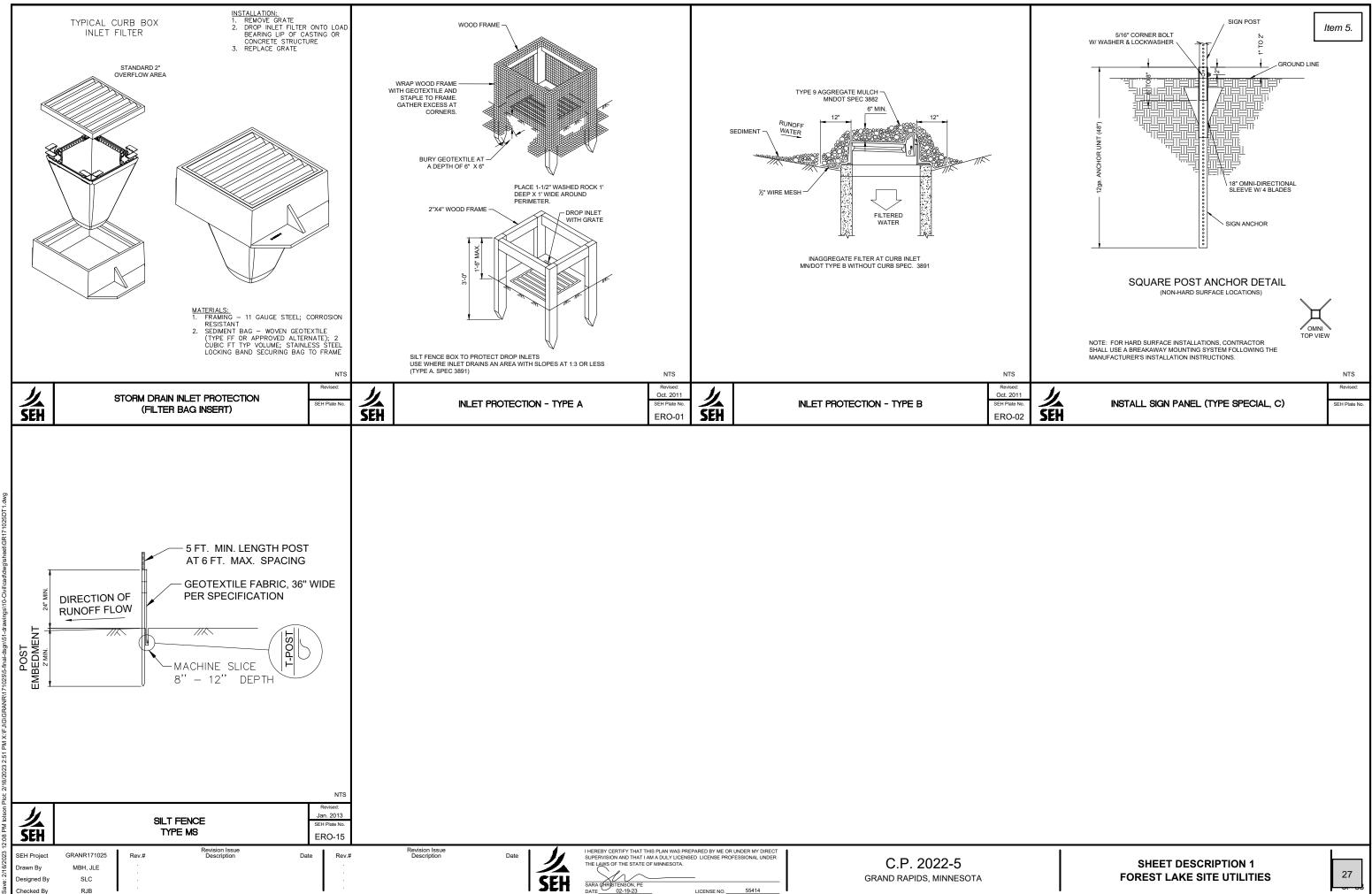
CONSTRUCTION NOTES FOREST LAKE SITE UTILITIES

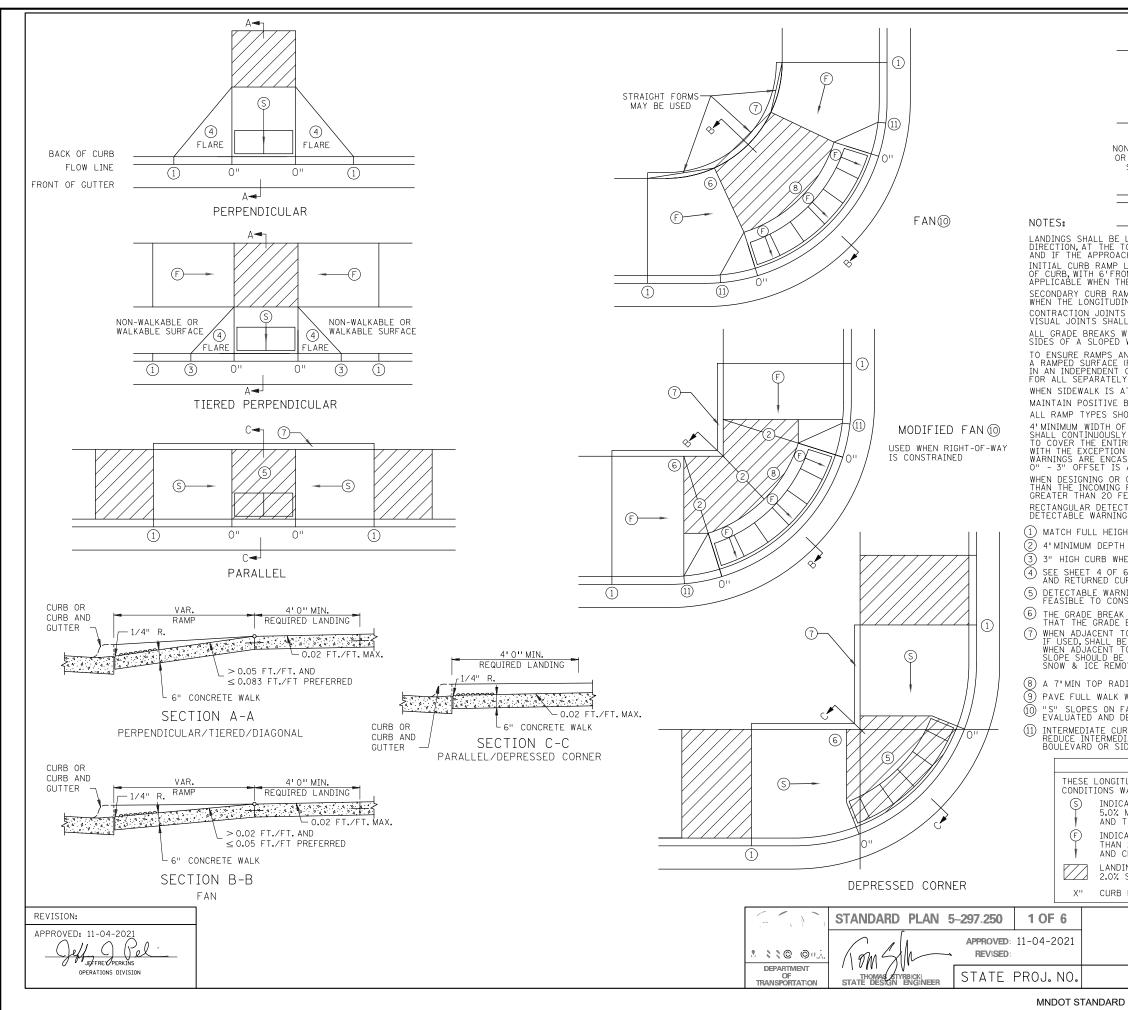




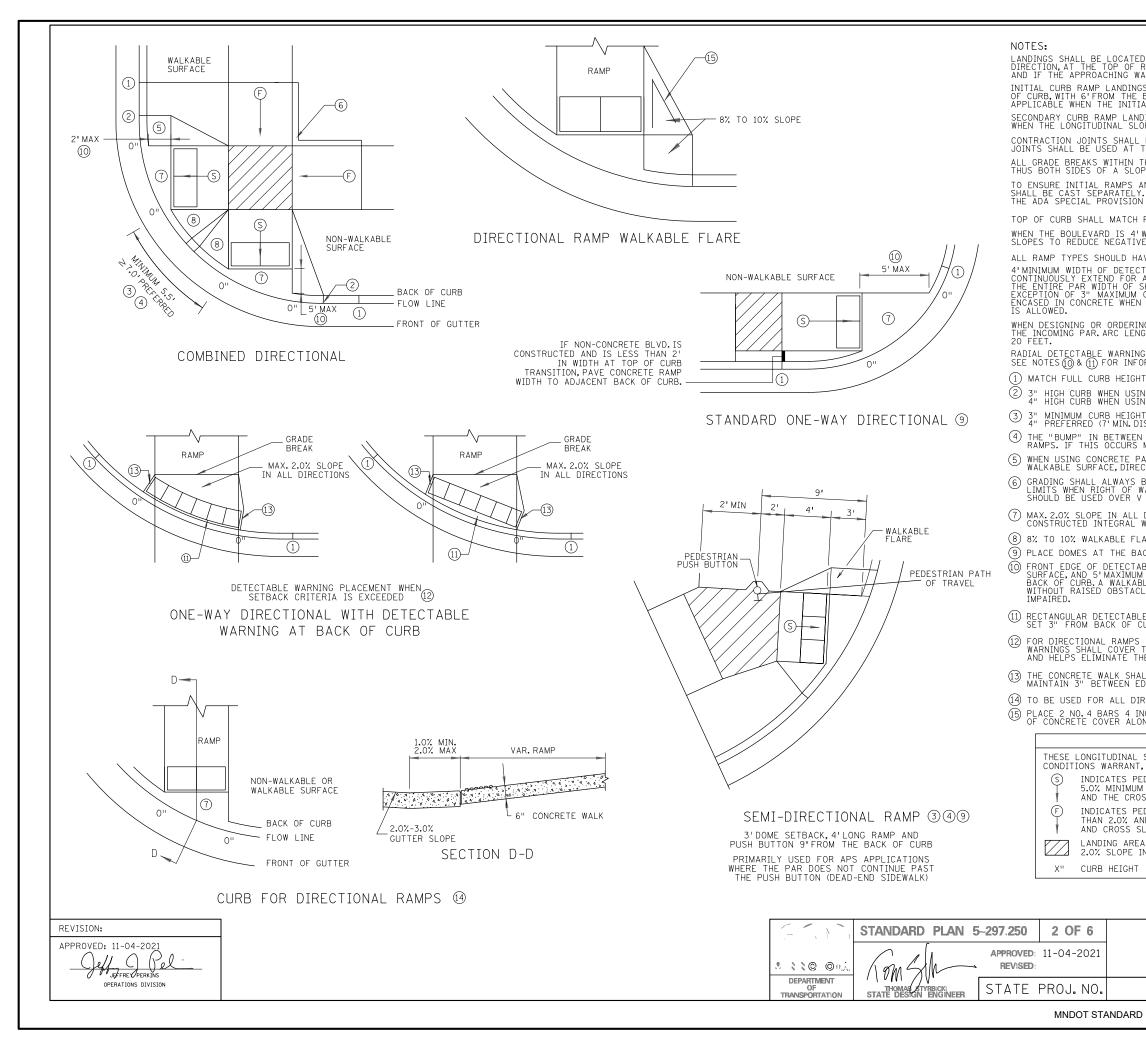




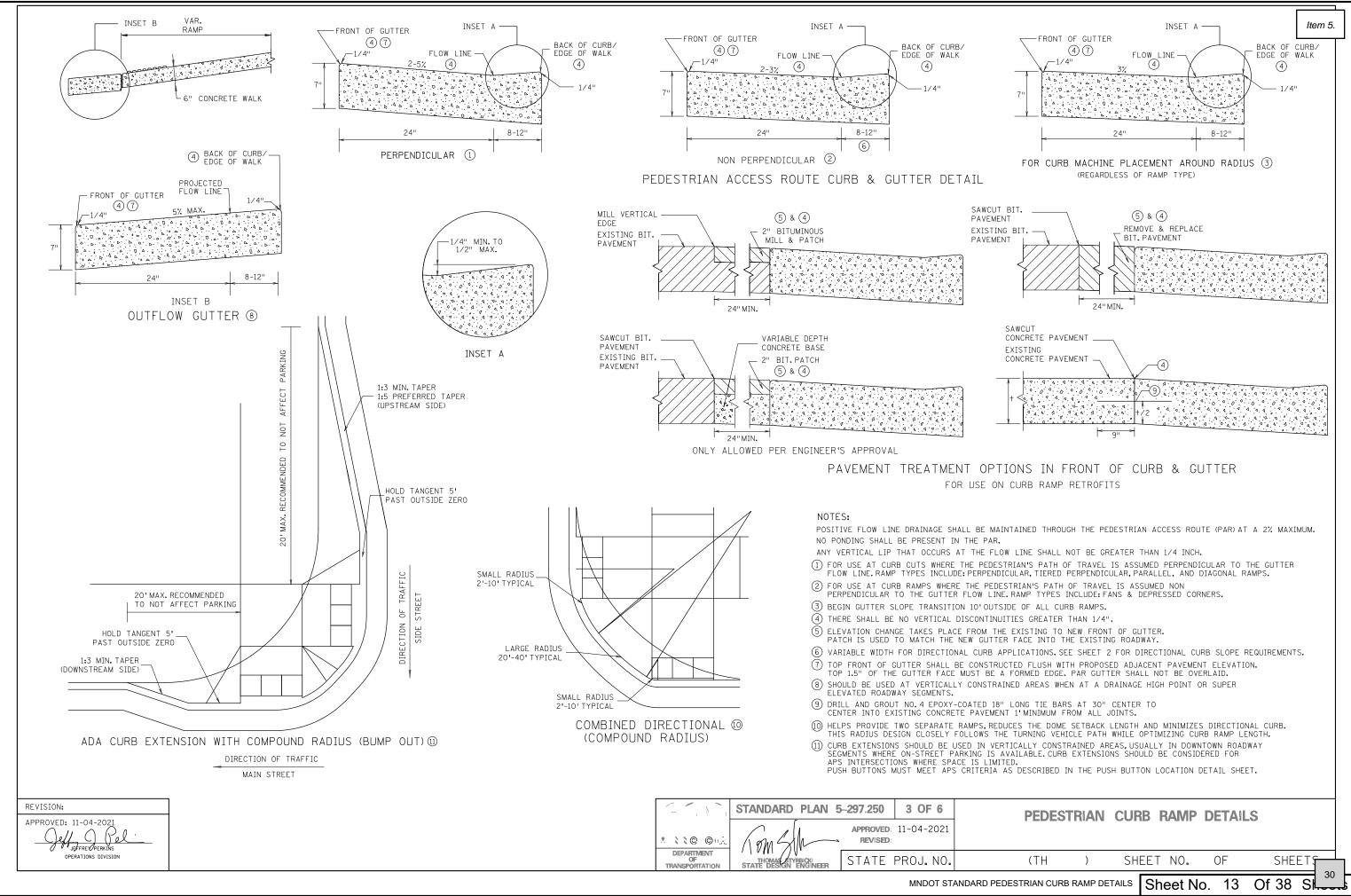


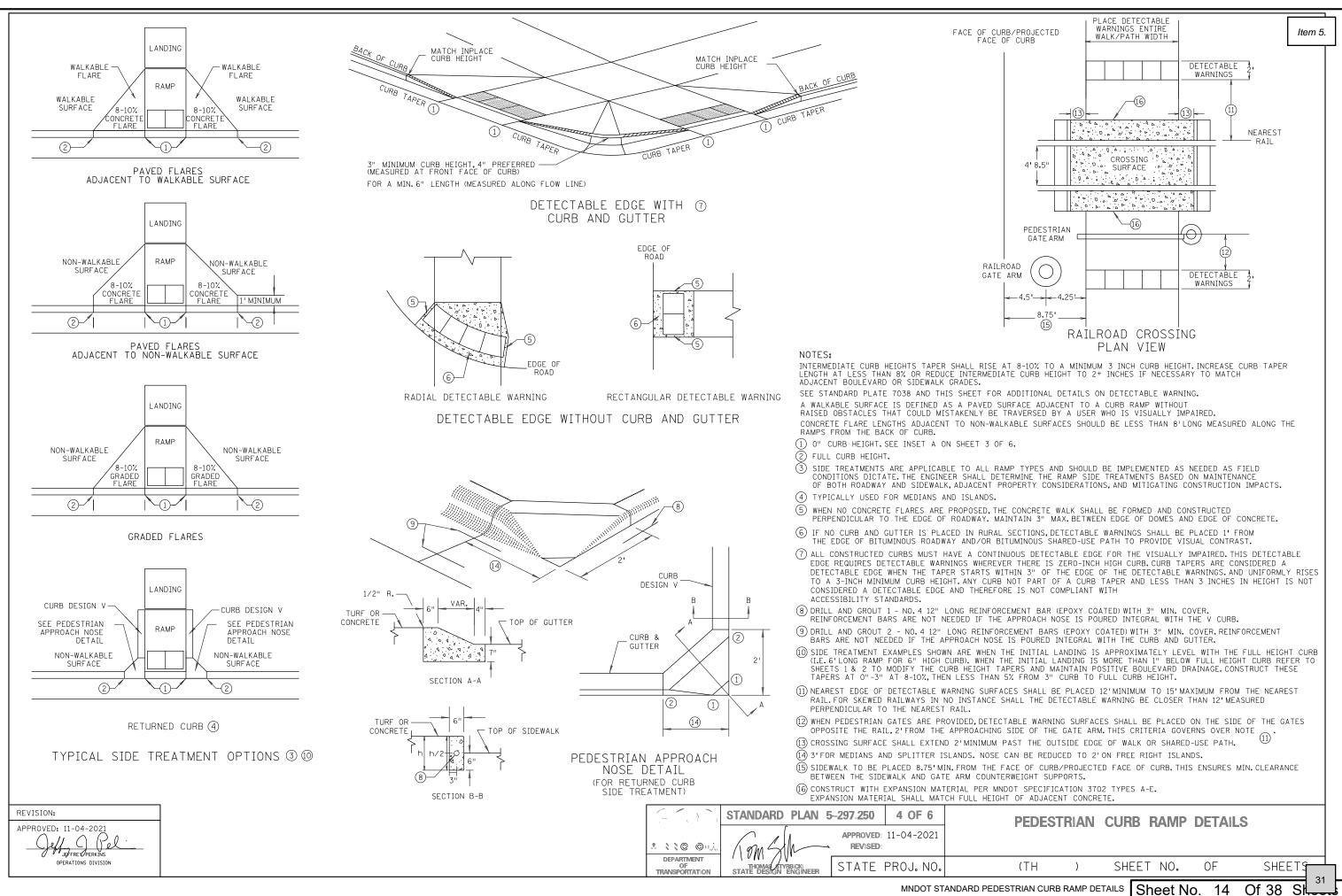


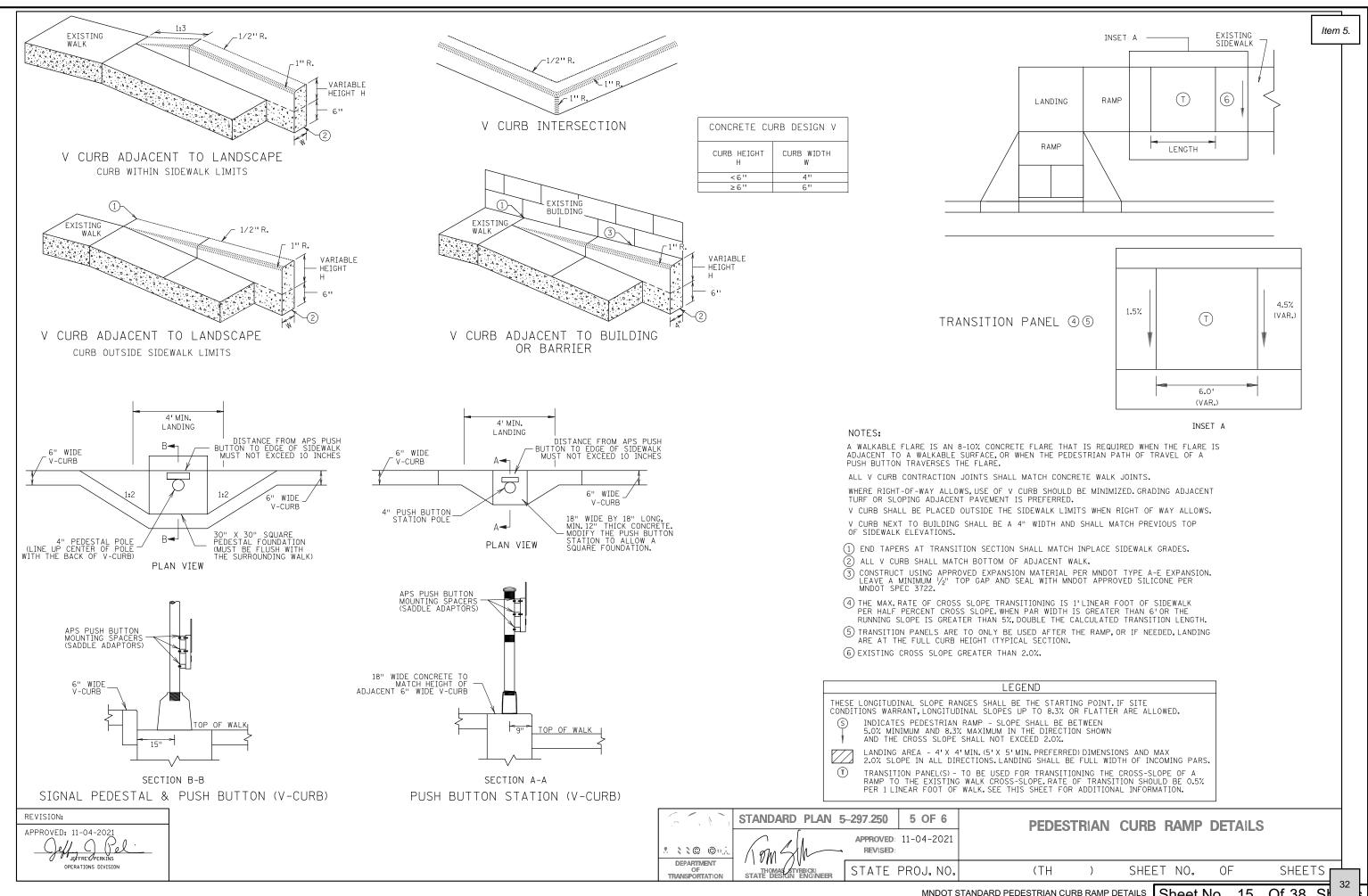
	WALK	NON-WALKABL OR WALKABLE SURFACE			Item 5.
WALK	×/////////////////////////////////////	92%MAX.4			
N-WALKABLE WALKABLE SURFACE	(9) 2% MAX.	0"	OTHER CURE	DIAGONAL BE USED AFTER RAMP TYPES HA AND DEEMED IMPI	VE BEEN
HING WALK I ANDINGS SH M THE BACK E INITIAL R. MP LANDINGS SHALL BE (BE USED A D LANDINGS WALKING SUF WALKING SUF POURED IN T BACK OF (30ULEYARD [DULD HAVE A	AT THE TOP'S OF VAR SHALL BE PE RFACE MUST BE I ARE PROPERLY OPE GREATER THA OUR. FOLLOW SIDI ITTAL LANDINGS. CURB, TOP OF CU MINIMUM 3'LON	E GREATER T THE PREFERF OPE IS OVER FOR EVERY 3 TER THAN 5.(ONG ALL GRAI CONCRETE FL RPENDICULAR EQUAL LENGTH CONSTRUCTEE NN 2%) SHALL EWALK REINFC RB SHALL MA OF CURB. IG RAMP LENG	HAN 2%. 15'FROM TH AED DISTANC 5.0%. 0" OF VERTI %. DE BREAKS W ARES ADJAC TO THE PA' 4.(EXCEPT A 0, ALL INITIA BE FORMED RCEMENT DE TCH PROPOSE	E BACK E, ONLY	SURFACES. US BOTH BELOW. TOP OF ARATELY 6 OF 6 K GRADE.
	CTANGULAR DETENDET IN THE RAI	ECTABLE WARI DIAL DETECTA	NING SURFAC Able Warnin	ES SHOULD BE 6" GS SHOULD NOT B	LESS
	NGS SHALL BE S SETBACK 3" MI	ETBACK 3" F NIMUM TO 6"	ROM THE BA MAXIMUM F	CK OF CURB.RADI. Rom the back of	AL CURB.
EN USING A S, TYPICAL S RBS. INGS MAY BI STRUCT THE SHALL BE P BREAK IS PE O GRASS, GR . PLACED OU O PARKING L	IDE TREATMENT E PART OF THE LANDING OUTSID ERPENDICULAR T RPENDICULAR TO ADING SHALL ALL TSIDE THE SIDEV	HIGH CURB OPTIONS,FOR 4'X 4'MIN.LA E OF THE DAC O THE BACK THE DIRECT VAYS BE USEI VAYS BE USEI VAYS LIMITSO R BITUMINOU	WHEN USING DETAILS ON ANDING AREA TECTABLE WA OF WALK. TH ION OF TRAV O WHEN FEAS WHEN RIGHT IS TAPERS L	IF IT IS NOT ARNING AREA. IIS WILL ENSURE EL.(TYPICAL FOR IBLE.V CURB, OF WAY ALLOWS. ESS THAN 5% RUN	
IUS GRADE E WIDTH.				OPTIONS HAVE B	EEN
	TAPER SHALL RIS EIGHT TO 2+ ING	GE AT 8-10% Ches if nece	TO A MINIMU SSARY TO M	JM 3" CURB HEIG ATCH ADJACENT	ΗΤ.
ARRANT, LON ATES PEDEST MINIMUM AND THE CROSS S	PE RANGES SHALL GITUDINAL SLOPE RIAN RAMP - SL) 8.3% MAXIMUM LOPE SHALL NOT	S UP TO 8.3 OPE SHALL B IN THE DIREC EXCEED 2.07	% OR FLATTI E BETWEEN CTION SHOWN 4	ER ARE ALLOWED.	
2.0% AND LE ROSS SLOPE NG AREA - 4	RIAN RAMP - SL SS THAN 5.0% I SHALL NOT EXC YX 4'MIN.(5'X L DIRECTIONS.L/	N THE DIREC ⁻ EED 2.0%. 5'MIN.PREFEI	TION SHOWN RRED) DIMENS	IONS AND MAX	PARS.
HEIGHT			".		
PE	DESTRIAN	CURB F	RAMP D	ETAILS	
(T)	Η)	SHEET	NO.	OF SH	
PEDESTRIA	N CURB RAMP DI	ETAILS Sh	neet No.	11 Of 3	



	Item 5.
) ANYWHERE THE PEDESTRIAN ACCESS ROUTE (PAR) CHANGES RAMPS THAT HAVE RUNNING SLOPES GREATER THAN 5.0%, ALK IS INVERSE GRADE.	L
S SHALL BE CONSTRUCTED WITHIN 15'FROM THE BACK BACK OF CURB BEING THE PREFERRED DISTANCE, ONLY AL RAMP RUNNING SLOPE IS OVER 5.0%.	
AL RAMP RUNNING SLUPE IS OVER 5.0%. DINGS ARE REQUIRED FOR EVERY 30" OF VERTICAL RISE DPE IS GREATER THAN 5.0%.	
BE CONSTRUCTED ALONG ALL GRADE BREAKS WITHIN THE PAR.1/4" DEEP V THE TOP GRADE BREAK OF CONCRETE FLARES ADJACENT TO WALKABLE SURF	'ISUAL ACES.
THE PAR SHALL BE PERPENDICULAR TO THE PATH OF TRAVEL. PED WALKING SURFACE MUST BE EQUAL LENGTH.	
ND INITIAL LANDINGS ARE PROPERLY CONSTRUCTED,LANDINGS .FOLLOW SIDEWALK REINFORCEMENT DETAILS ON SHEET 6 AND I (PROSECUTION OF WORK).	
PROPOSED ADJACENT WALK GRADE. WIDE OR LESS, THE TOP OF CURB TAPER SHALL MATCH THE RAMP E BOULEVARD SLOPES FROM THE TOP BACK OF CURB TO THE PAR.	
VE A MINIMUM 3'LONG RAMP LENGTH.	
TABLE WARNING IS REQUIRED FOR ALL RAMPS.DETECTABLE WARNINGS SHALL A MIN.OF 24" IN THE PATH OF TRAVEL.DETECTABLE WARNING TO COVER SHARED-USE PATHS AND THE ENTIRE PAR WIDTH OF THE WALK WITH THE ON EACH OUTSIDE EDGE WHICH ENSURES THE DETECTABLE WARNINGS ARE ADJACENT TO TURF.WHEN ADJACENT TO CONCRETE FLARES O" - 3" OFFSE	ET
IG RECTANGULAR DETECTABLE WARNING SURFACES SHOULD BE 6" LESS THAI STH OF THE RADIAL DETECTABLE WARNINGS SHOULD NOT BE GREATER THAN	
GS SHALL BE SETBACK 3" MINIMUM TO 6" MAXIMUM FROM THE BACK OF CL RMATION REGARDING RECTANGULAR DETECTABLE WARNING PLACEMENT.	JRB.
T. NG A 3'LONG RAMP NG A 4'LONG RAMP.	
NG A 4'LONG RAMP. T (5.5'MIN.DISTANCE REQUIRED BETWEEN DOMES) STANCE REQUIRED BETWEEN DOMES).	
THE RAMPS SHOULD NOT BE IN THE PATH OF TRAVEL FOR COMBINED DIREM MODIFY THE RAMP LOCATION OR SWITCH RAMP TO A FAN/DEPRESSED CORNI	CTIONAL ER.
AVED FLARES ON THE OUTSIDE OF DIRECTIONAL RAMPS, AND ADJACENT TO A CTIONAL RAMP FLARES SHALL BE USED. SEE THE DETAIL ON THIS SHEET.	
BE USED WHEN FEASIBLE.V CURB.IF USED.SHALL BE PLACED OUTSIDE THE (AY ALLOWS.WHEN ADJACENT TO PARKING LOTS,CONCRETE OR BITUMINOUS CURB TO REDUCE TRIPPING HAZARDS AND FACILITATE SNOW & ICE REMOV	SIDEWALK TAPERS AL.
DIRECTIONS IN FRONT OF GRADE BREAK AND DRAIN TO FLOW LINE.SHALL EWITH CURB AND GUTTER.	BE
ARE. CK OF CURB WHEN ALLOWABLE SETBACK CRITERIA IS EXCEEDED.	
BLE WARNING SHALL BE SET BACK 2'MAXIMUM WHEN ADJACENT TO WALKABL WHEN ADJACENT TO NON-WALKABLE SURFACE WITH ONE CORNER SET 3" FF LE SURFACE IS DEFINED AS A PAVED SURFACE ADJACENT TO A CURB RAMF LES THAT COULD MISTAKENLY BE TRAVERSED BY A USER WHO IS VISUALLY	ROM
E WARNINGS MAY BE SETBACK UP TO 9" FROM THE BACK OF CURB WITH CO "URB. IF 9" SETBACK IS EXCEEDED USE RADIAL DETECTABLE WARNINGS.	DRNERS
WITH THE DETECTABLE WARNINGS PLACED AT THE BACK OF CURB, THE DETE THE ENTIRE WIDTH OF THE WALK/PATH. THIS ENSURES A DETECTABLE EDGE 4E CURB TAPER OBSTRUCTING THE PATH OF PEDESTRIAN TRAVEL.	ECTABLE
LL BE FORMED AND CONSTRUCTED PERPENDICULAR TO THE BACK OF CURB. DGE OF DOMES AND EDGE OF CONCRETE.	
RECTIONAL RAMPS, EXCEPT WHERE DOMES ARE PLACED ALONG THE BACK OF NCHES FROM SIDE OF FORMS WITH A MINIMUM 2 INCHES NG EACH SIDE OF FLARE (INCIDENTAL).	CURB.
LEGEND	
SLOPE RANGES SHALL BE THE STARTING POINT.IF SITE LONGITUDINAL SLOPES UP TO 8.3% OR FLATTER ARE ALLOWED.	
DESTRIAN RAMP - SLOPE SHALL BE BETWEEN I AND 8.3% MAXIMUM IN THE DIRECTION SHOWN SS SLOPE SHALL NOT EXCEED 2.0%.	
DESTRIAN RAMP - SLOPE SHALL BE GREATER ND LESS THAN 5.0% IN THE DIRECTION SHOWN LOPE SHALL NOT EXCEED 2.0%.	
A - 4'X 4'MIN. (5'X 5'MIN. PREFERRED) DIMENSIONS AND MAX N ALL DIRECTIONS. LANDING SHALL BE FULL WIDTH OF INCOMING PARS.	
PEDESTRIAN CURB RAMP DETAILS	
(T.H.) SHEET NO. OF SHE	ET
PEDESTRIAN CURB RAMP DETAILS Sheet No. 12 Of 38	29 St

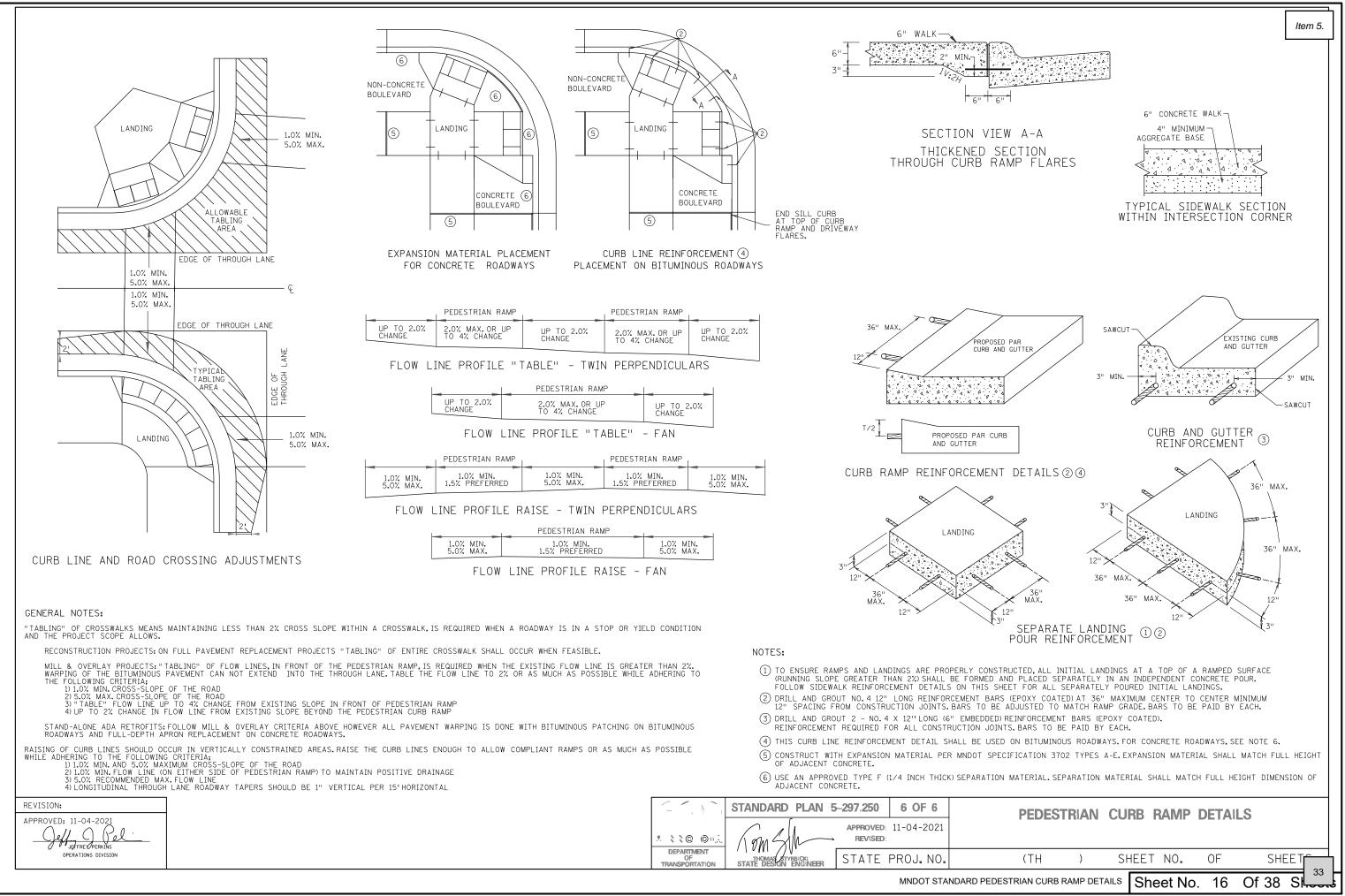


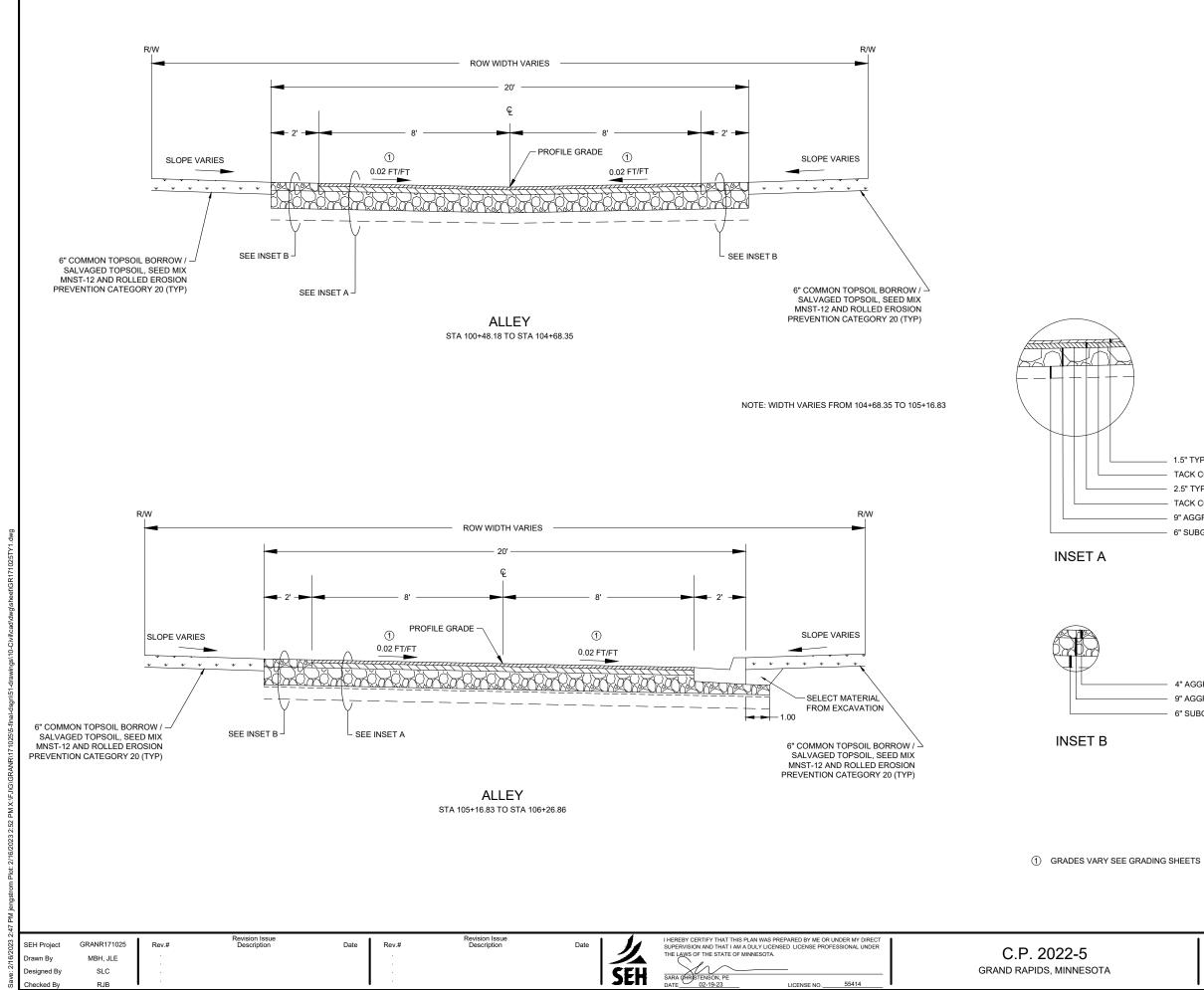




MNDOT STANDARD

(TH)	SHE	ET NO.	OF		SHEE	TS [1
PEDESTRIAN CUP	RB RAMP I	DETAILS	Sheet I	No.	15	Of 38	Sł	32	5



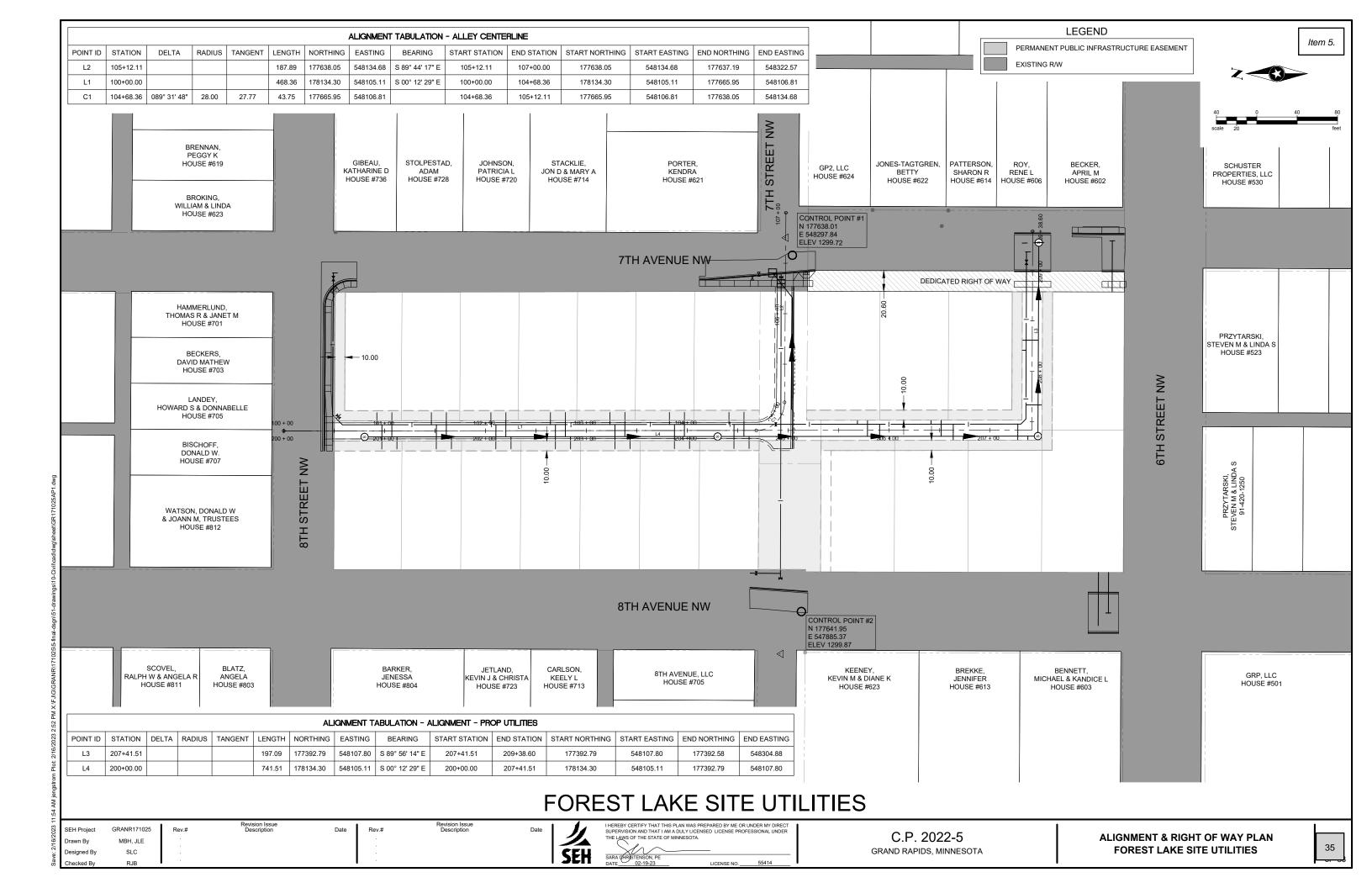


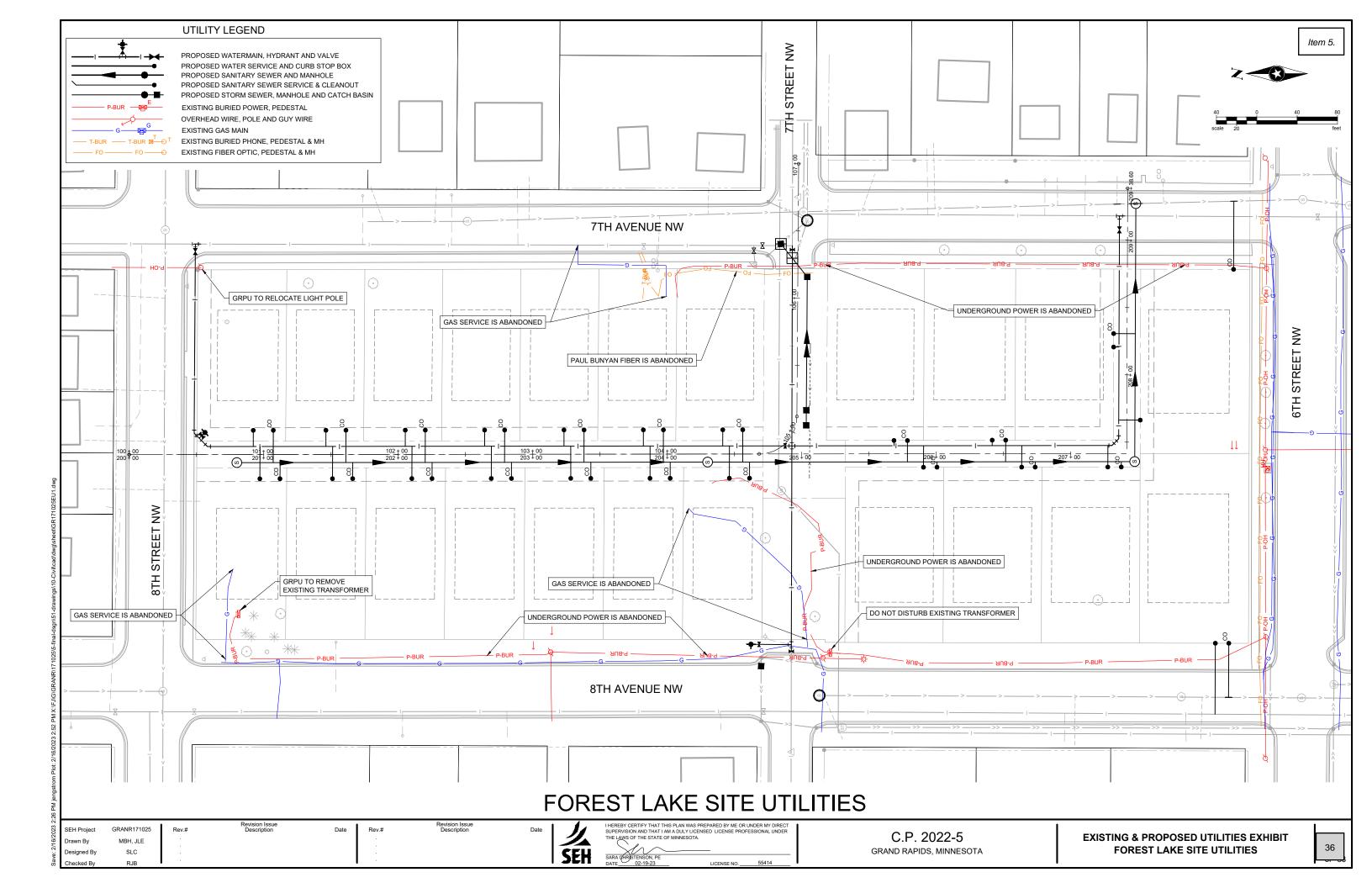
TYPICAL SECTIONS FOREST LAKE SITE UTILITIES

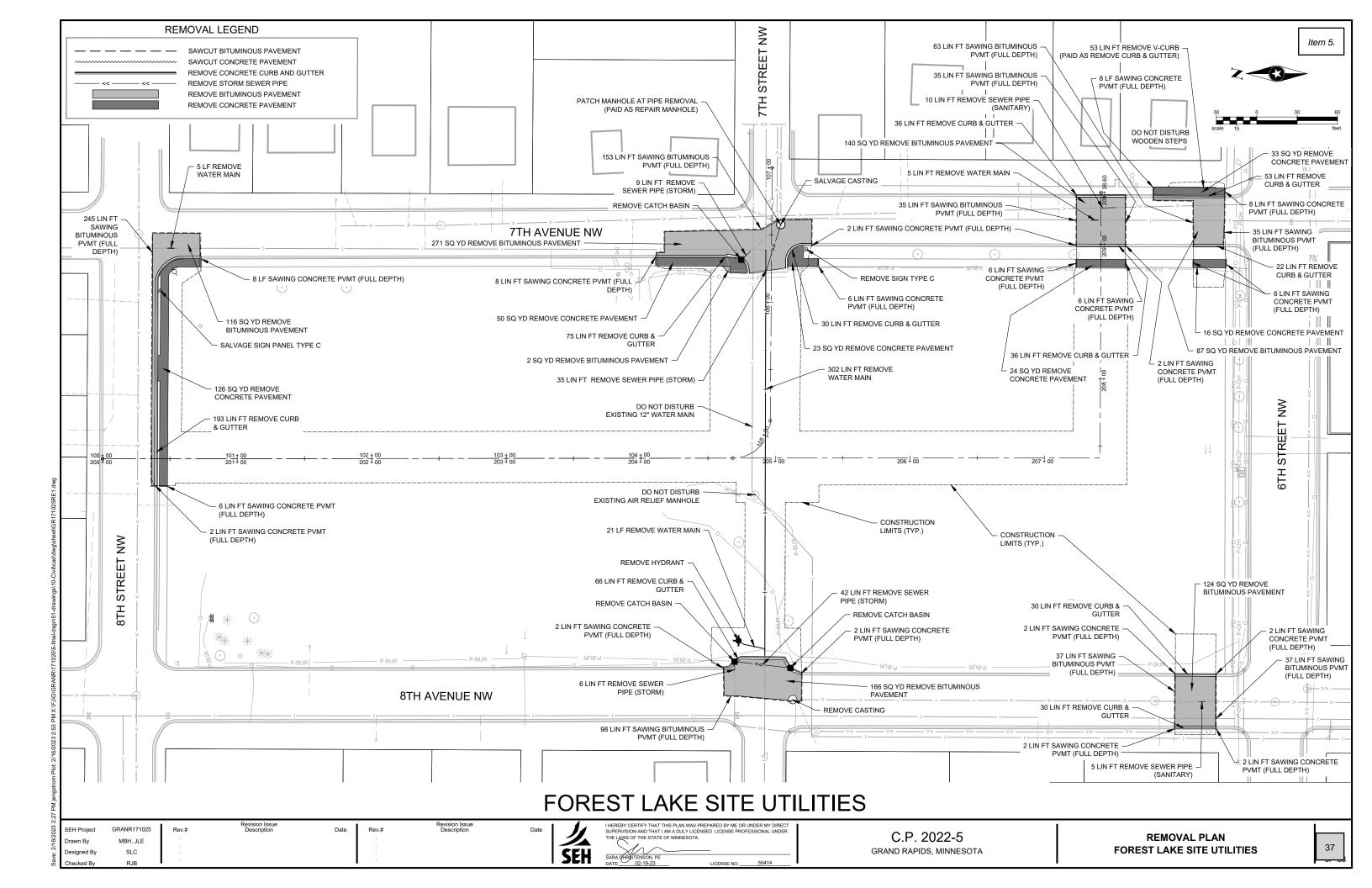
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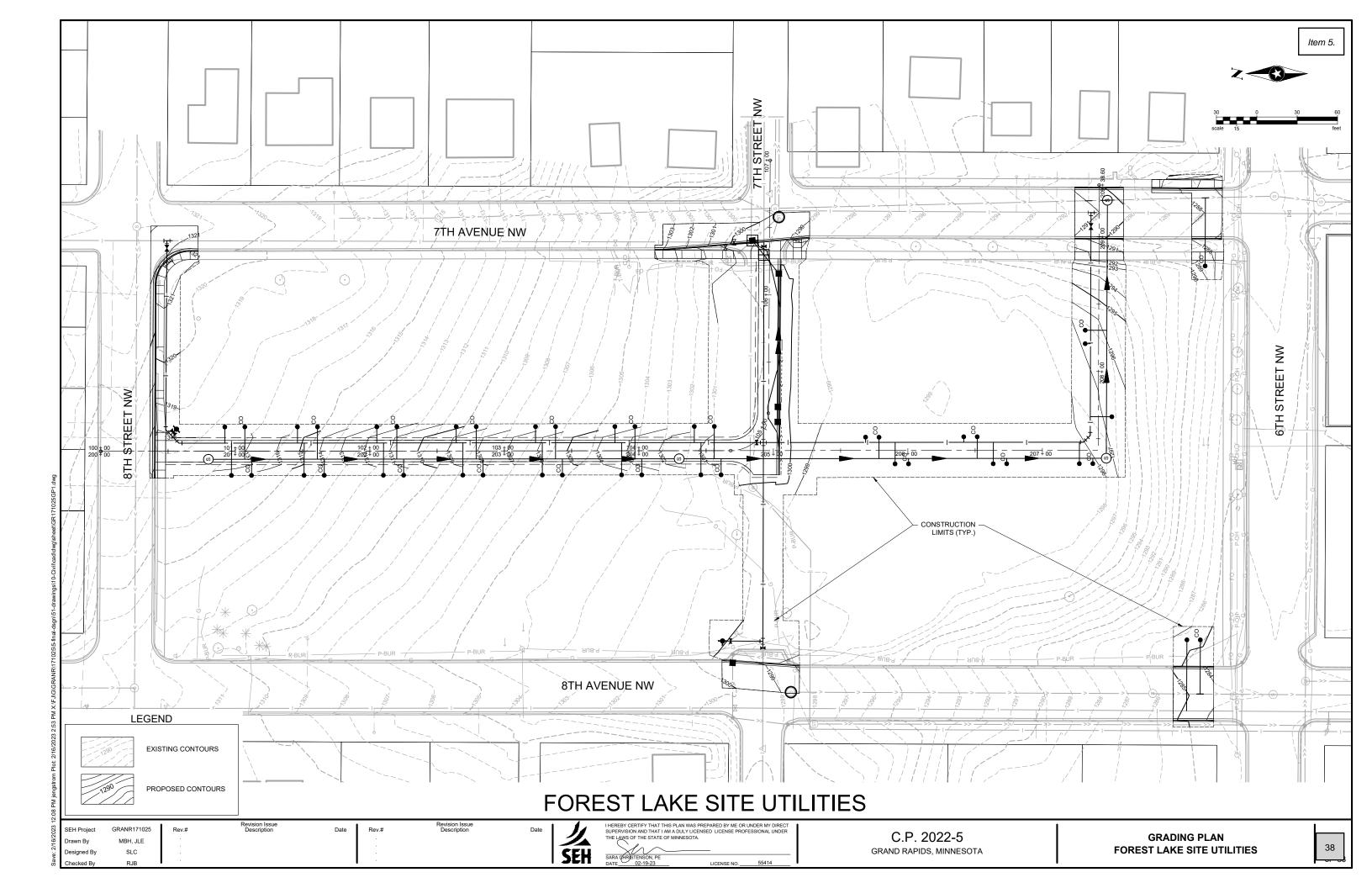
- 6" SUBGRADE PREPARATION
- 9" AGGREGATE BASE (CV) CL5
- 4" AGGREGATED SURFACING (CV) CL 5

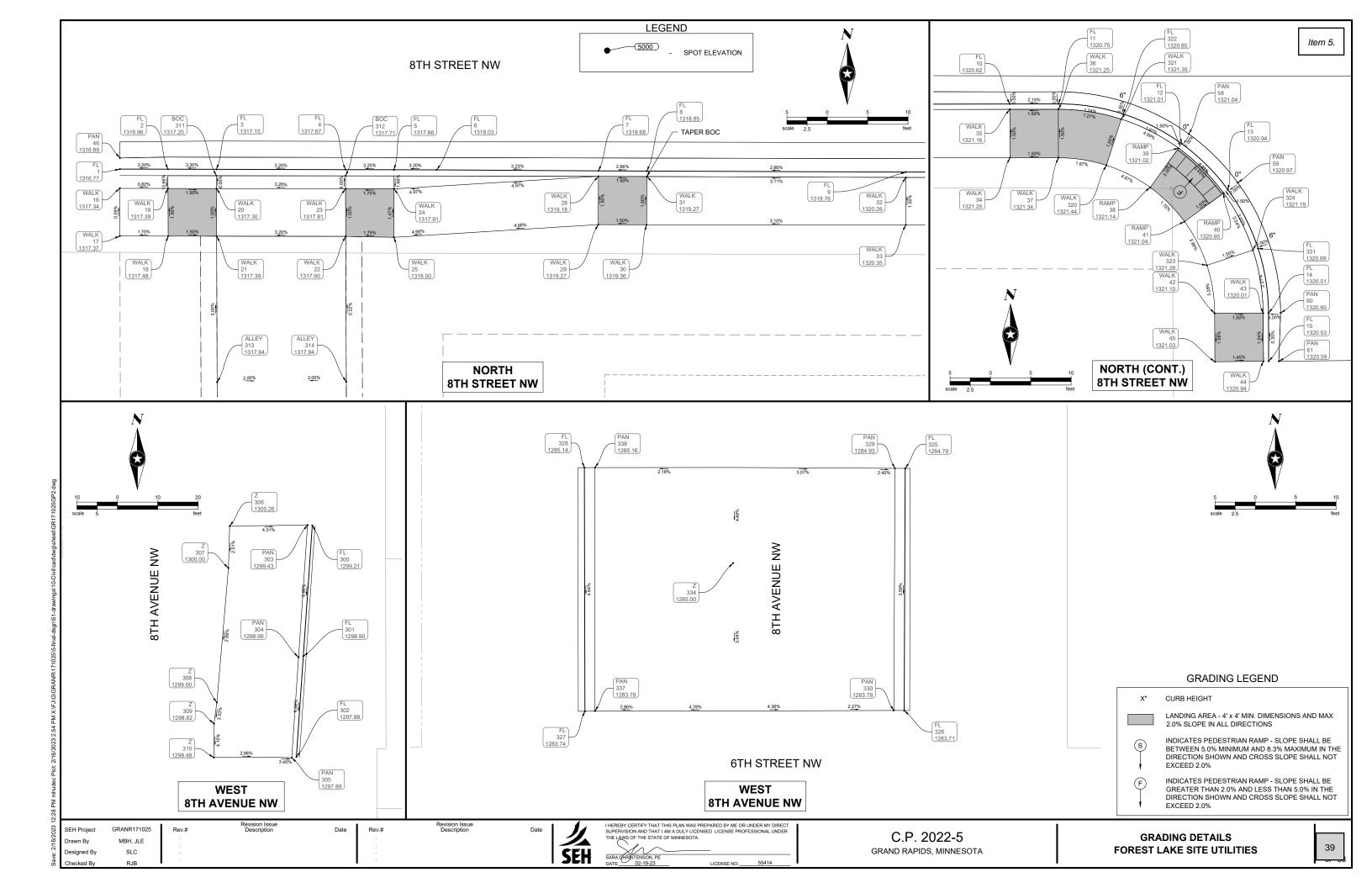
- 6" SUBGRADE PREPARATION
- 9" AGGREGATE BASE (CV) CL5
- TACK COAT (INCIDENTAL)
- 2.5" TYPE SP 12.5 WEARING COURSE MIX (SPWEB340C)
- TACK COAT (INCIDENTAL)
- 1.5" TYPE SP 9.5 WEARING COURSE MIX (SPWEA340C)

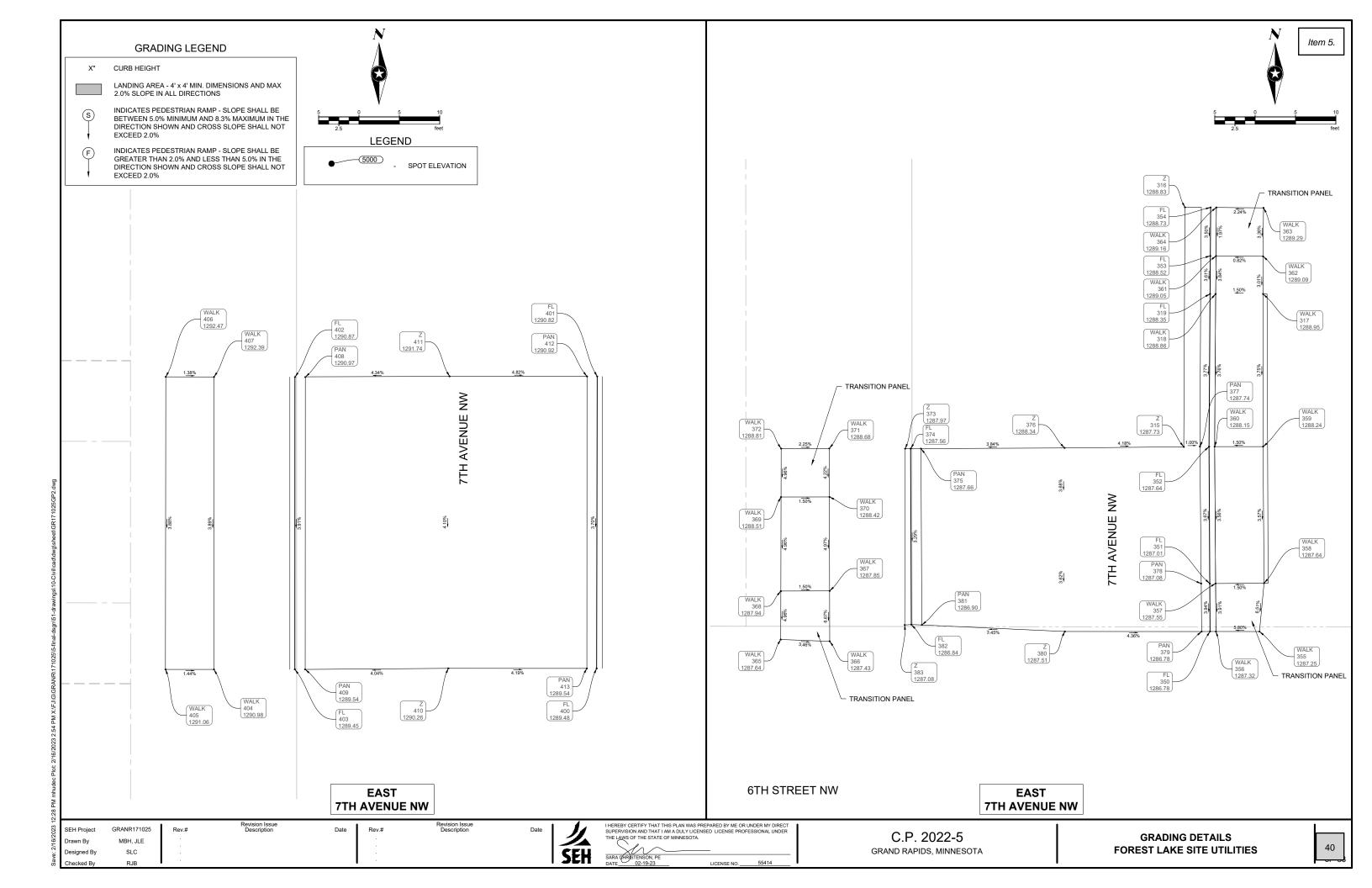


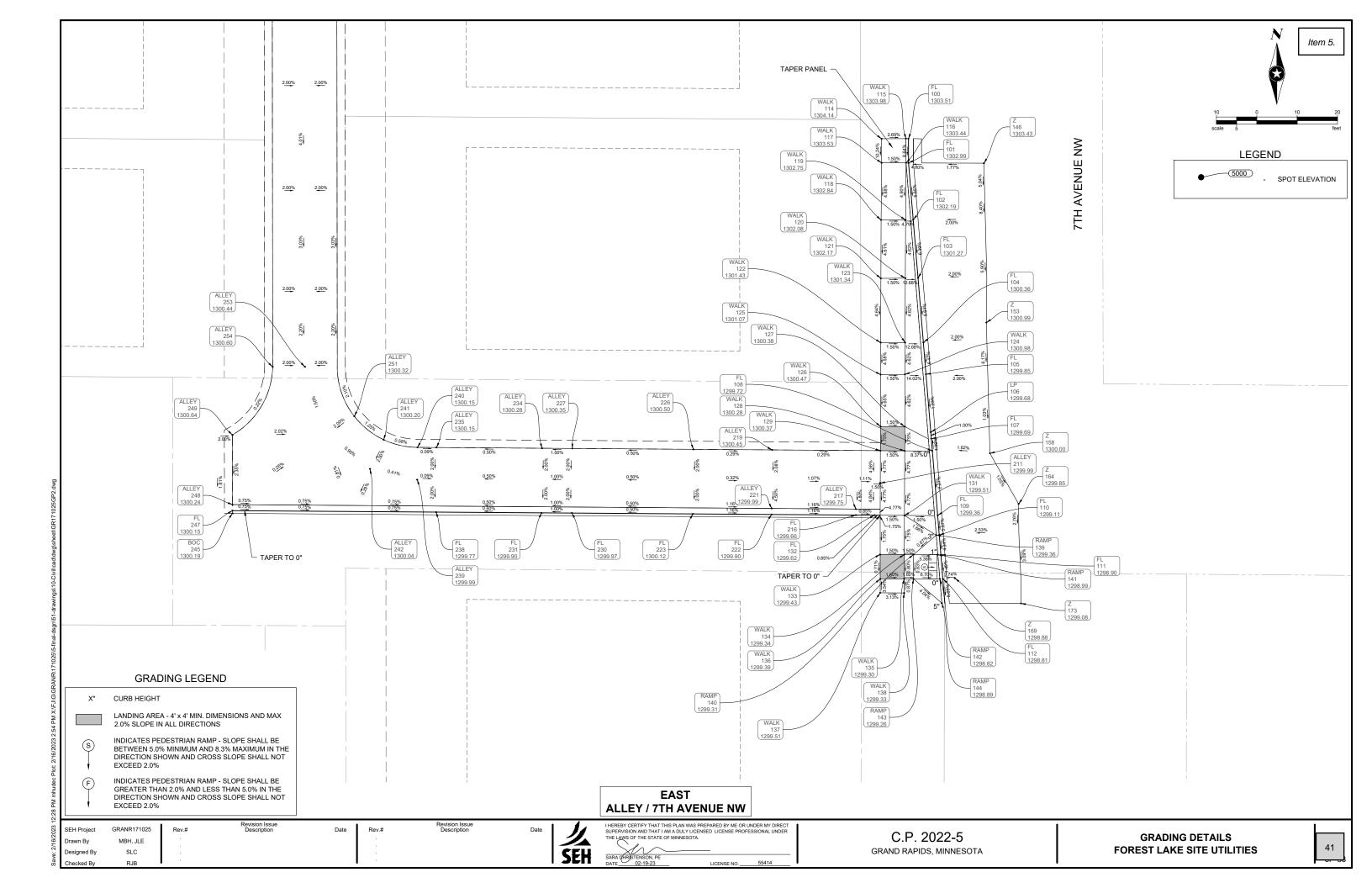












		POINT T	ABLE	
#	DESC.	ELEVATION	NORTHING	EASTING
1	FL	1316.77	178094.45	548085.30
2	FL	1316.96	178094.44	548091.25
3	FL	1317.15	178094.42	548097.25
4	FL	1317.67	178094.38	548113.25
5	FL	1317.86	178094.37	548119.25
6	FL	1318.03	178094.36	548124.56
7	FL	1318.68	178094.23	548144.59
8	FL	1318.85	178094.20	548150.59
9	FL	1319.76	178094.08	548182.68
10	FL	1320.62	178094.14	548222.45
11	FL	1320.75	178094.15	548228.45
12	FL	1321.01	178089.21	548243.74
13	FL	1320.94	178083.52	548249.46
14	FL	1320.51	178068.25	548254.49
15	FL	1320.53	178062.28	548254.51
16	WALK	1317.34	178092.07	548085.29
17	WALK	1317.37	178086.16	548085.28
18	WALK	1317.48	178086.15	548091.28
19	WALK	1317.39	178092.05	548091.26
20	WALK	1317.30	178092.04	548097.26
21	WALK	1317.39	178086.14	548097.28
22	WALK	1317.90	178086.12	548113.28
23	WALK	1317.81	178092.01	548113.26
24	WALK	1317.91	178092.00	548119.26
25	WALK	1318.00	178086.00	548119.25
28	WALK	1319.18	178093.56	548144.58
29	WALK	1319.27	178087.57	548144.56
30	WALK	1319.36	178087.55	548150.56
31	WALK	1319.27	178093.53	548150.58
32	WALK	1320.26	178093.41	548182.68
33	WALK	1320.35	178087.52	548182.67
34	WALK	1321.25	178087.47	548222.46
35	WALK	1321.16	178093.47	548222.45
36	WALK	1321.25	178093.48	548228.45
37	WALK	1321.34	178087.48	548228.46
38	RAMP	1321.14	178083.81	548239.83
39	RAMP	1321.02	178088.67	548243.35
40	RAMP	1320.95	178083.12	548248.92
41	RAMP	1321.04	178079.58	548244.08
42	WALK	1321.10	178068.22	548247.82
43	WALK	1320.01	178068.24	548253.82
44	WALK	1320.94	178062.28	548253.87
45	WALK	1321.03	178062.22	548247.85
46	PAN	1316.89	178095.83	548085.30
58	PAN	1321.04	178090.42	548244.62
59	PAN	1320.97	178084,40	548250.67
60	PAN	1320.60	178068.25	548255.99
61	PAN	1320.59	178062.29	548255.77
100	FL	1303.51	177722.84	548256.21
100	FL	1302.99	177716.82	548256.23

		POINT T	ABLE	
#	DESC.	ELEVATION	NORTHING	EASTING
102	FL	1302.19	177702.77	548257.43
103	FL	1301.27	177688.32	548258.66
104	FL	1300.36	177672.37	548260.02
105	FL	1299.85	177664.50	548260.69
106	LP	1299.68	177650.15	548261.92
107	FL	1299.69	177648.52	548262.06
108	FL	1299.72	177645.53	548262.31
109	FL	1299.36	177629.53	548263.68
110	FL	1299.11	177624.69	548264.09
111	FL	1298.90	177619.79	548264.51
112	FL	1298.81	177613.79	548265.02
114	WALK	1304.14	177722.80	548249.56
115	WALK	1303.98	177722.84	548255.59
116	WALK	1303.44	177716.82	548255.63
117	WALK	1303.53	177716.84	548249.58
118	WALK	1302.84	177702.67	548249.47
119	WALK	1302.75	177702.71	548255.54
120	WALK	1302.08	177688.26	548255.52
121	WALK	1302.17	177688.21	548249.46
122	WALK	1301.43	177672.32	548249.45
123	WALK	1301.34	177672.32	548255.49
124	WALK	1300.98	177664.44	548255.48
125	WALK	1301.07	177664.38	548249.45
126	WALK	1300.47	177651.50	548249.49
127	WALK	1300.38	177651.50	548255.47
128	WALK	1300.28	177645.50	548255.46
129	WALK	1300.37	177645.53	548249.43
131	WALK	1299.51	177629.50	548255.44
132	FL	1299.62	177629.53	548248.04
133	WALK	1299.43	177619.80	548249.42
134	WALK	1299.34	177619.80	548255.42
135	WALK	1299.30	177613.80	548255.42
136	WALK	1299.39	177613.74	548249.49
137	WALK	1299.51	177610.30	548249.48
138	WALK	1299.33	177610.28	548255.41
139	RAMP	1299.36	177624.63	548263.34
140	RAMP	1299.31	177619.79	548257.72
141	RAMP	1298.99	177619.79	548263.75
142	RAMP	1298.82	177613.79	548264.25
143	RAMP	1299.26	177613.79	548257.72
144	RAMP	1298.89	177607,79	548264.76
146	Z	1303.43	177716.80	548274.93
153	z	1300.99	177677.34	548275.63
158	Z	1300.00	177644.93	548276.59
164	Z	1299.85	177632.42	
	Z		177613.95	548283.72 548268.00
169		1298.88		
173	Z ALLEY	1299.08	177607.77	548284.38
214		1299.99	177637.53	548249.43
211 216	FL	1299.66	177629.55	548243.39

POINT TABLE								
#	DESC.	ELEVATION	NORTHING	EASTING				
219	ALLEY	1300.45	177645.65	548222.60				
221	ALLEY	1299.99	177631.15	548222.54				
222	FL	1299.90	177629.65	548222.53				
223	FL	1300.12	177629.74	548203.03				
226	ALLEY	1300.50	177645.74	548203.11				
227	ALLEY	1300.35	177645.88	548173.11				
230	FL	1299.97	177629.88	548173.03				
231	FL	1299.90	177629.91	548165.53				
234	ALLEY	1300.28	177645.91	548165.60				
235	ALLEY	1300.15	177646.03	548139.44				
238	FL	1299.77	177630.03	548139.36				
239	ALLEY	1299.99	177638.05	548134.68				
240	ALLEY	1300.15	177646.05	548134.71				
241	ALLEY	1300.20	177647.93	548126.34				
242	ALLEY	1300.04	177640.68	548122.95				
245	BOC	1300.19	177629.59	548088.93				
247	FL	1300.15	177630.26	548088.94				
248	ALLEY	1300.24	177631.76	548088.93				
249	ALLEY	1300.64	177649.02	548088.87				
251	ALLEY	1300.32	177653.75	548119.04				
253	ALLEY	1300.44	177665.95	548106.81				
254	ALLEY	1300.60	177665.92	548098.80				
300	FL	1299.21	177672.03					
				547950.87				
301	FL	1298.90	177639.65	547948.67				
302	FL	1297.88	177614.68	547946.93				
303	PAN	1299.43	177672.14	547949.70				
304	PAN	1298.99	177639.40	547947.43				
305	PAN	1297.89	177614.50	547945.78				
306	Z	1300.26	177671.89	547930.40				
307	Z	1300.00	177661.51	547930.10				
308	Z	1299.00	177628.18	547927.23				
309	Z	1298.82	177622.94	547926.50				
310	Z	1298.48	177614.55	547926.46				
311	BOC	1317.20	178093.63	548097.25				
312	BOC	1317.71	178093.62	548113.25				
313	ALLEY	1317.94	178068.05	548097.35				
314	ALLEY	1317.94	178068.11	548113.35				
315	Z	1287.73	177323.88	548299.16				
316	Z	1288.83	177353.55	548299.31				
317	WALK	1288.95	177342.80	548308.99				
318	WALK	1288.86	177342.80	548303.11				
319	FL	1288.35	177342.81	548302.42				
320	WALK	1321.44	178086.55	548234.41				
321	WALK	1321.35	178092.27	548236.25				
322	FL	1320.85	178092.90	548236.45				
323	WALK	1321.28	178074.17	548246.86				
324	WALK	1321.19	178076.04	548252.56				
325	FL	1284.79	177336.55	547946.90				
326	FL	1283.71	177306.56	547946.77				
327	FL	1283.74	177306.46	547907.22				

POINT TABLE					
#	DESC.	ELEVATION	NORTHING	EASTING	
328	FL	1285.14	177336.65	547907.15	
329	PAN	1284.93	177336.56	547945.64	
330	PAN	1283.78	177306.57	547945.49	
331	FL	1320.69	178076.25	548253.20	
334	z	1285.00	177324.82	547925.58	
337	PAN	1283.78	177306.50	547908.47	
338	PAN	1285.16	177336.65	547908.47	
350	FL	1286.78	177301.01	548302.42	
351	FL	1287.01	177306.94	548302.39	
352	FL	1287.64	177323.90	548302.29	
353	FL	1288.52	177347.52	548302.45	
354	FL	1288.73	177353.53	548302.49	
355	WALK	1287.25	177300.99	548308.54	
356	WALK	1287.32	177301.00	548303.15	
357	WALK	1287.55	177306.95	548303.11	
358	WALK	1287.64	177306.99	548309.11	
359	WALK	1288.24	177323.90	548308.99	
360	WALK	1288.15	177323.91	548302.99	
361	WALK	1289.05	177347.52	548303.16	
362	WALK	1289.09	177347.48	548308.99	
363	WALK	1289.29	177353.48	548309.05	
364	WALK	1289.16	177353.53	548303.20	
365	WALK	1287.64	177300.01	548249.23	
366	WALK	1287.43	177299.78	548255.30	
367	WALK	1287.85	177306.03	548255.29	
368	WALK	1287.94	177306.01	548249.24	
369	WALK	1288.51	177317.66	548249.27	
370	WALK	1288.42	177317.67	548255.26	
371	WALK	1288.68	177323.67	548255.24	
372	WALK	1288.81	177323.66	548249.29	
373	Z	1287.97	177323.65	548264.65	
374	FL	1287.56	177323.65	548265.32	
375	PAN	1287.66	177323.66	548266.60	
376	z	1288.34	177323.74	548284.40	
377	PAN	1287.74	177323.90	548301.16	
378	PAN	1287.08	177306.94	548301.32	
379	PAN	1286.78	177301.00	548301.38	
380	Z	1287.51	177301.01	548284.44	
381	PAN	1286.90	177301.81	548266.71	
382	FL	1286.84	177301.86	548265.41	
383	z	1287.08	177301.81	548264.59	
400	FL	1289.48	177374.53	548302.65	
401	FL	1290.82	177410.69	548302.72	
402	FL	1290.87	177410.62	548265.27	
403	FL	1289.45	177374.41	548265.26	
404	WALK	1290.98	177374.40	548255.23	
405	WALK	1291.06	177374.41	548249.23	
406	WALK	1292.47	177410.64	548249.26	
407	WALK	1292.39	177410.64	548255.24	
		· · · -			

SEH Project Drawn By Designed By Checked By

Revision Issue Description Rev.#

GRANR171025

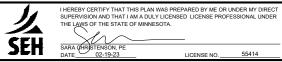
MBH, JLE

SLC RJB Revision Issue Description

Date

Rev.#

Date

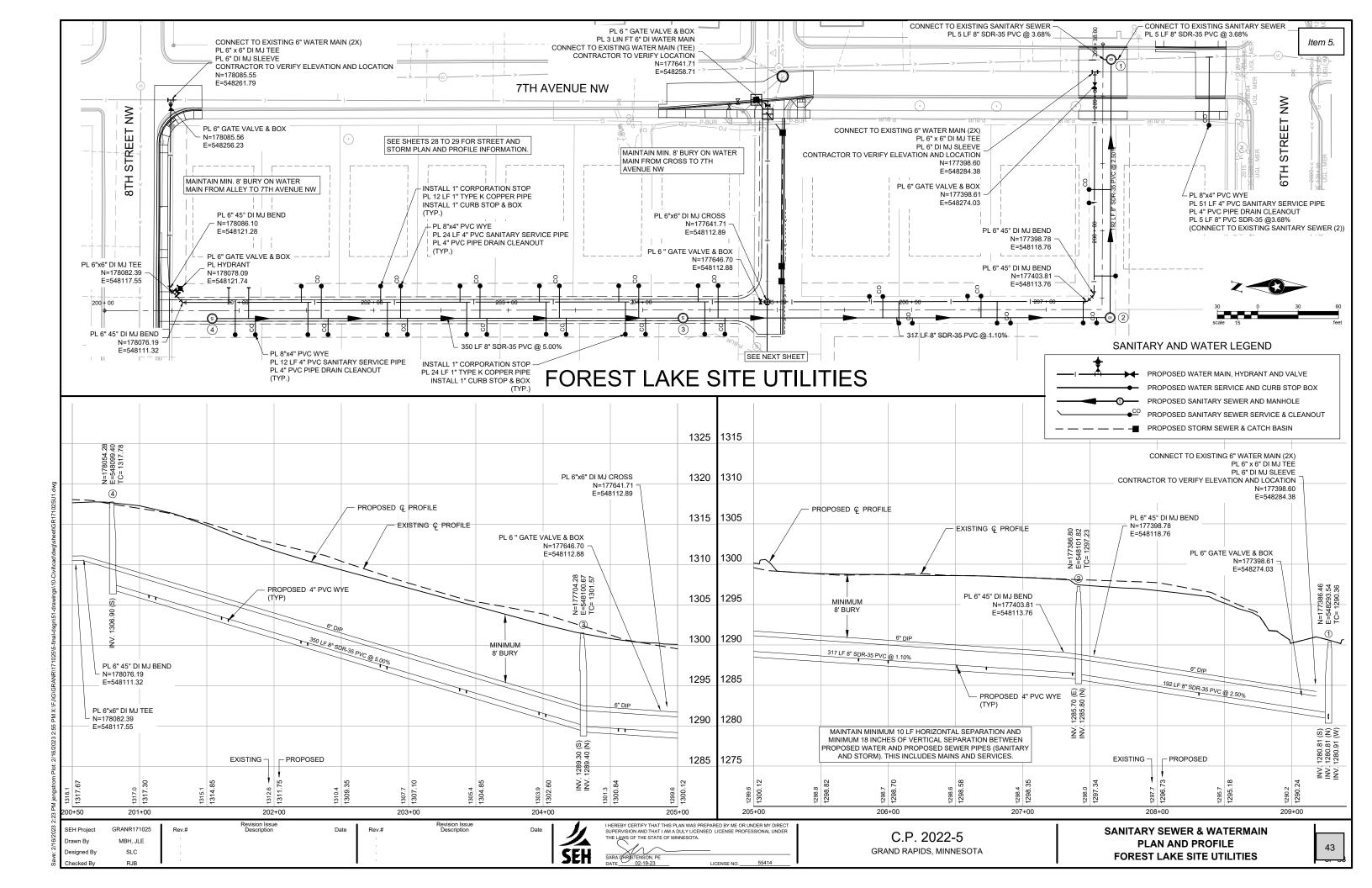


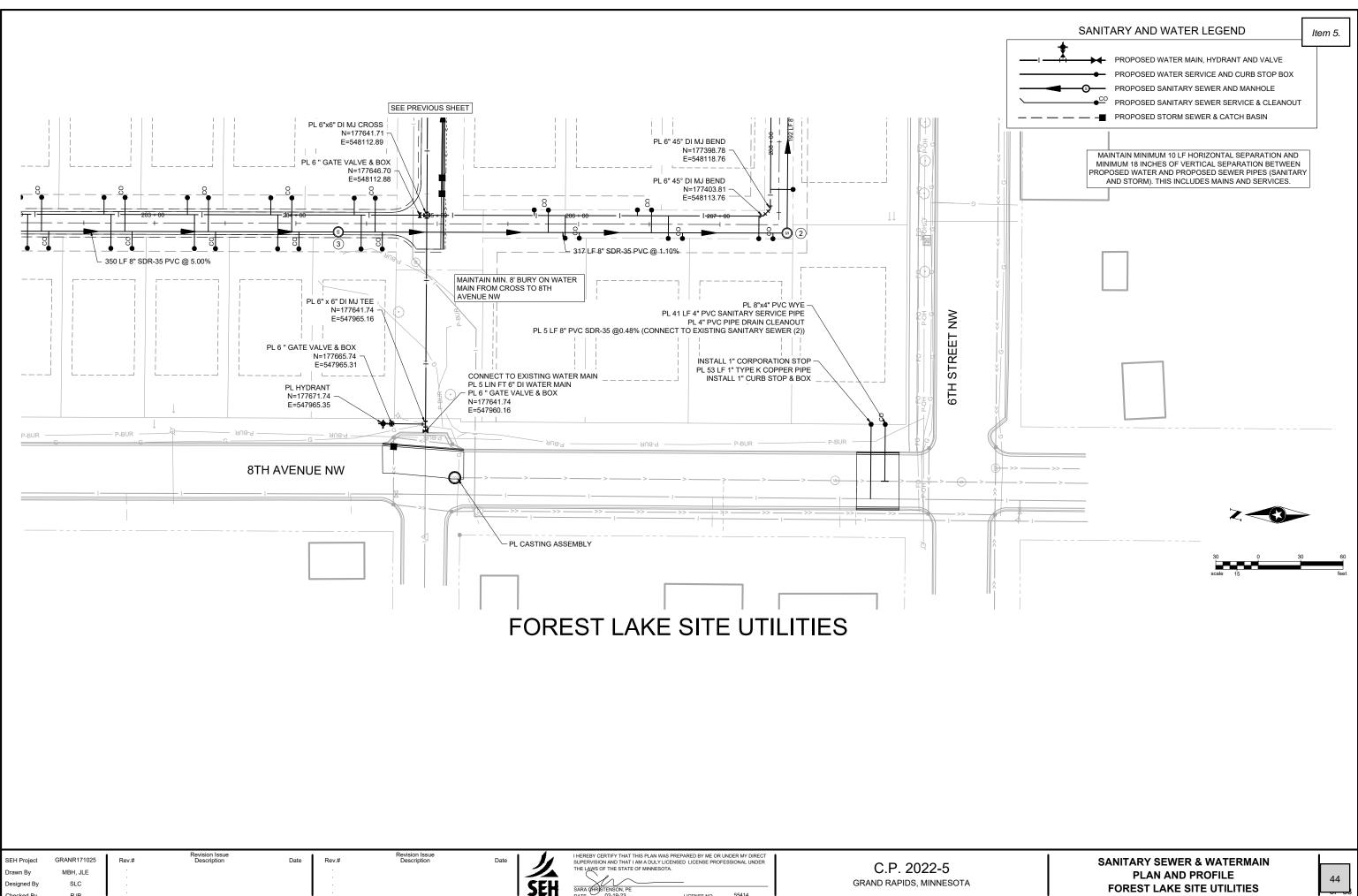
55414 LICENSE NO.

C.P. 2022-5 GRAND RAPIDS, MINNESOTA

POINT TABLE								
#	DESC.	ELEVATION	NORTHING	EASTING				
409	PAN	1289.54	177374.41	548266.54				
410	Z	1290.26	177374.54	548284.27				
411	Z	1291.74	177410.70	548284.43				
412	PAN	1290.92	177410.69	548301.46				
413	PAN	1289.54	177374.53	548301.44				

GRADING POINT TABLES FOREST LAKE SITE UTILITIES





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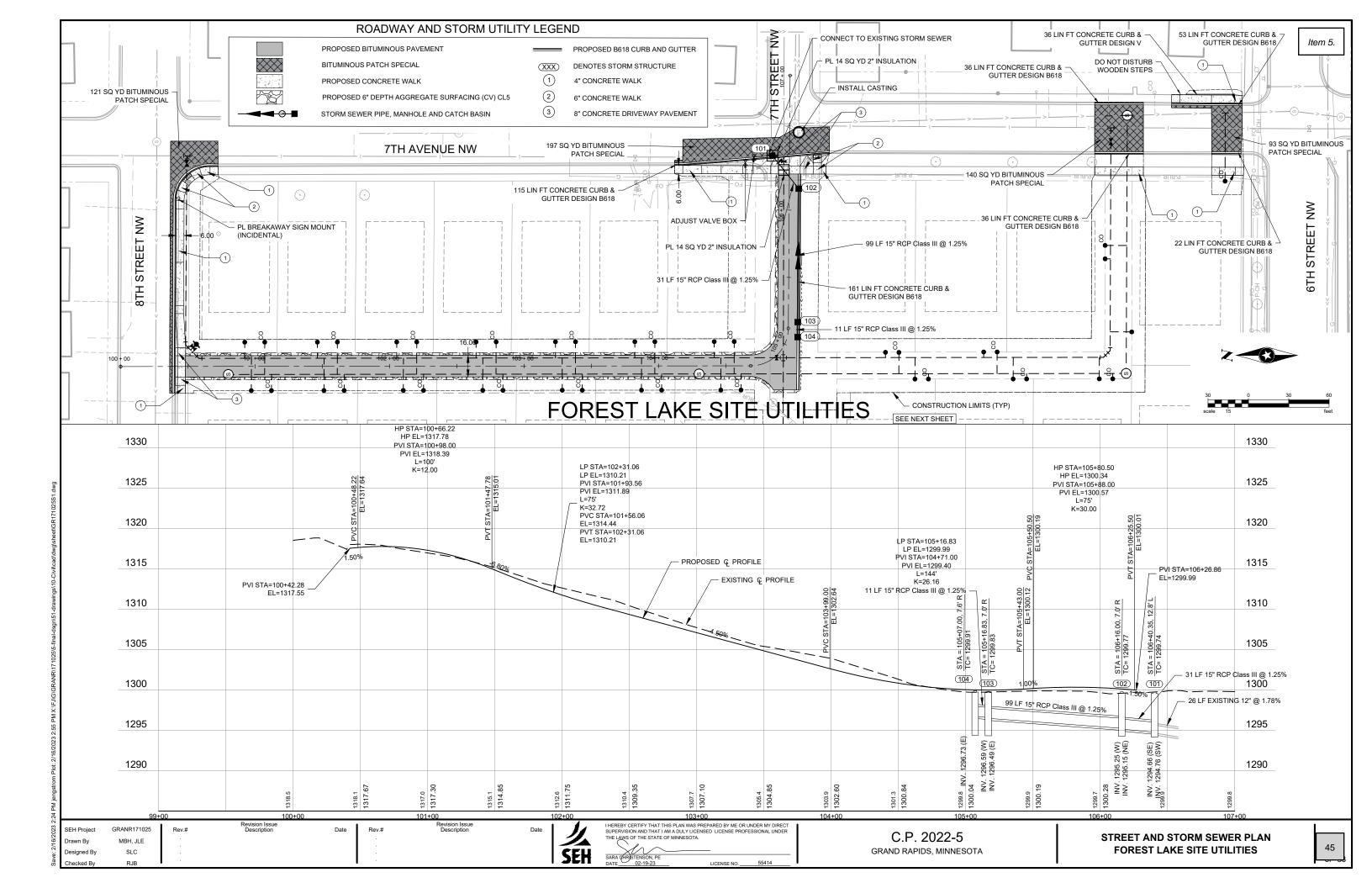
LICENSE NO

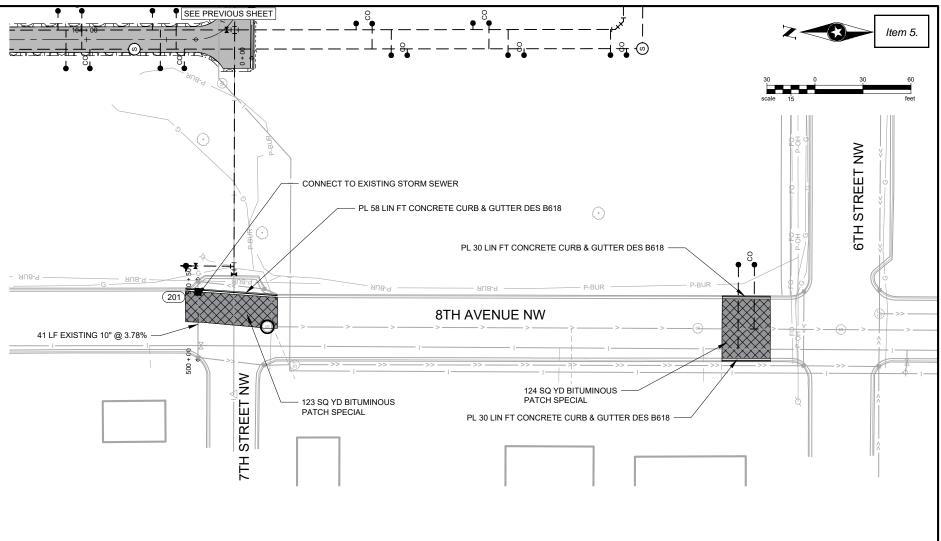
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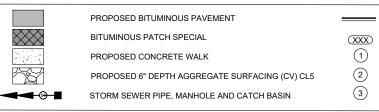
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FOREST LAKE SITE UTILITIES



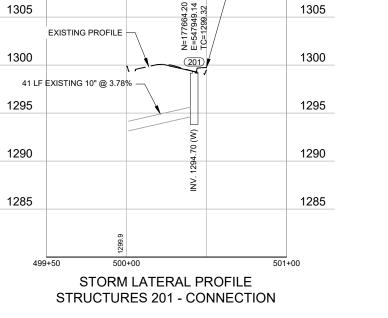






FOREST LAKE SITE UTILITIES

ñ											
:023 2:	SEH Project	GRANR171025	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date		I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LICENSE PROFESSIONAL UNDER	
/16/2	Drawn By	MBH, JLE	1			1			1	THE LAWS OF THE STATE OF MINNESOTA.	C.P. 2022-5
/e: 2	Designed By	SLC							CEU	SARA OHRISTENSON PE	GRAND RAPIDS, MINNESOTA
(a)	Checked By	R IB	· ·						JL	DATE 02-19-23 LICENSE NO 55414	



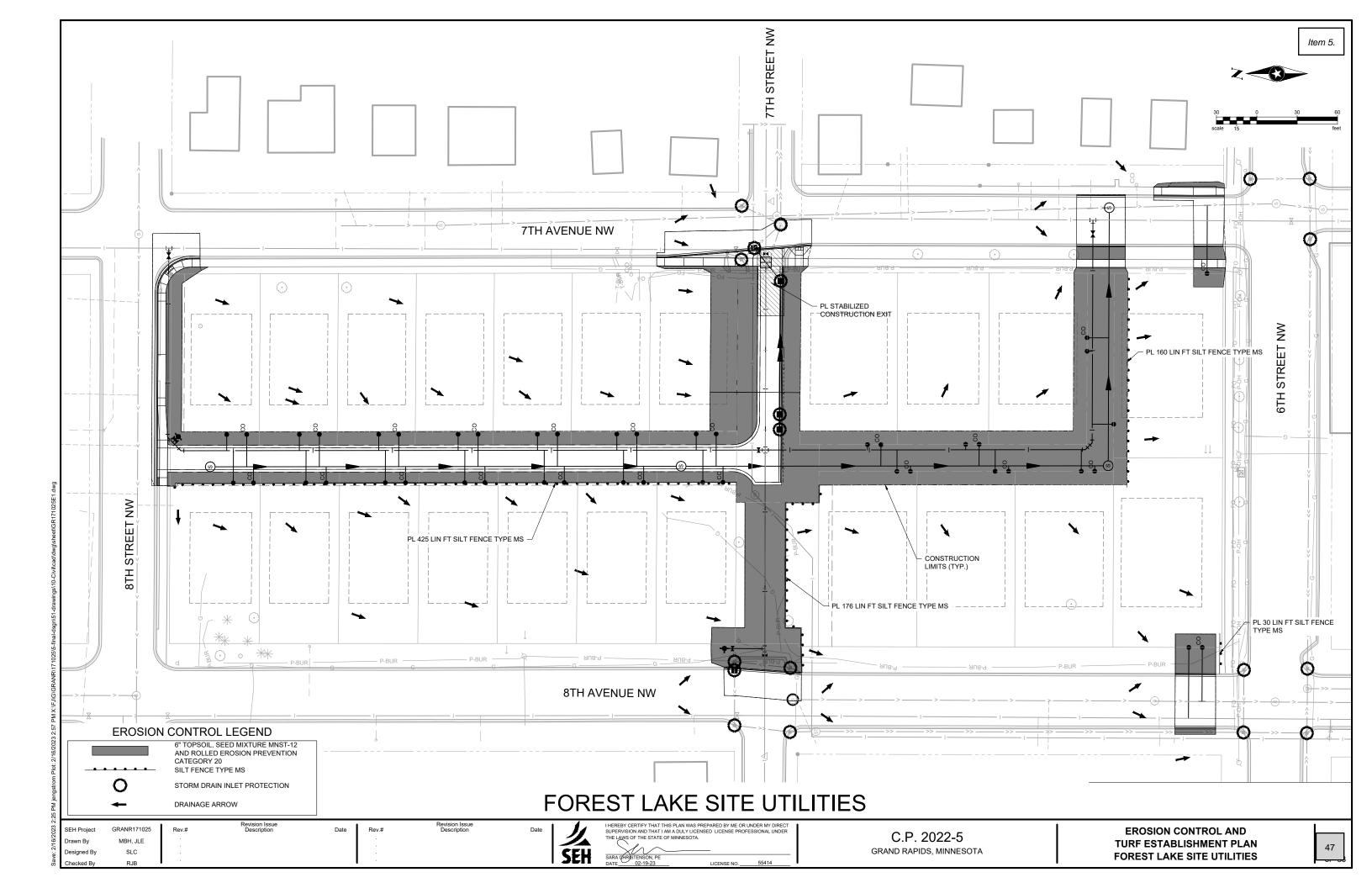
1310

PROPOSED PROFILE

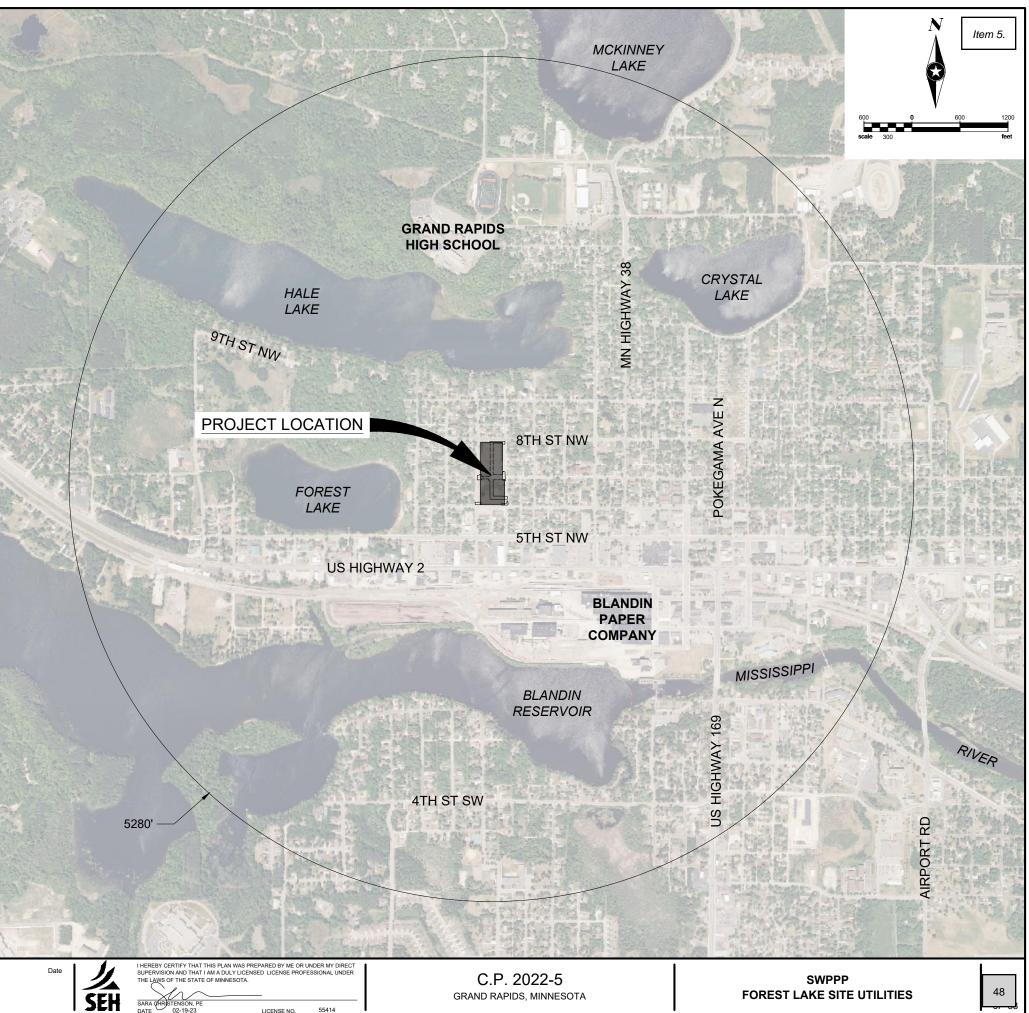
1310

- PROPOSED B618 CURB AND GUTTER
- DENOTES STORM STRUCTURE
- 4" CONCRETE WALK
- 6" CONCRETE WALK
- 8" CONCRETE DRIVEWAY PAVEMENT

STORM SEWER LATERAL PROFILES FOREST LAKE SITE UTILITIES



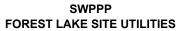
	te being investigated receives dischar tion is prohibited under the CSW perm	ges from vehicle fueling or maintenance facilities, STOP - nit
Box	Question	Criteria or check box
1	Is the project located in a well head protection area	
2	Is the project located in a Drinking Water	
3	Supply Management Area (DWSMA) Is the project located in a Karst area	
4	If any of the above are checked, what measures will be implemented to ensure protection of drinking water supply	
		nd proposed location of the BMP story of soil or groundwater contamination at levels of concern? If Yes,
1		to Box 2; if No, proceed to Box 3.
2	If the answer to Box 1 is yes, has the contaminated soil or groundwater been remediated to acceptable levels? NOTE: closure letters sent by the MPCA do not assure that a site is not contaminated. Click on the link in Cell E8 for more information. If yes, proceed to Box 3.	If no or unknown, Stop. There is sufficient information to suggest that contaminants may be mobilized by infiltration. For Construction Stormwater permittees, infiltration is prohibited when the infiltration system will be constructed in areas where high levels of contaminants in soil or groundwater will be mobilized by the infiltrating stormwater. SEE FOOTNOTE
3		ox in which the item occurs on the site with the proposed BMP?
4	Underground storage tank vent(s) or fill port(s)	
5	Monitoring well(s)	
6	Soil pile(s) covered with plastic sheeting or tarp(s)	
7	Staining of soil(s) and/or dead vegetation	
8 9	Unusual odor(s) Mismanaged drum(s) or chemical container(s)	
10	Excavation(s) that is/are not backfilled with	
	clean material Presence of debris that may indicate presence	
11	of structure(s) or activity(ies) that could result in contamination	
12	Site is a confirmed stormwater hotspot	
13	Are there any potential sources identified (che	ecked) in Boxes 4 through 12? If Yes, proceed to Box 14; if no proceed to Box 15.
14	For all potential sources identified (checked) in Boxes 5 through 13, can adequate separation be achieved? If yes, proceed to Box 16.	If no, Stop. There is sufficient information to suggest that contaminants may be mobilized by infiltration. For Construction Stormwater permittees, infiltration is prohibited when the infiltration system will be constructed in areas where high levels of contaminants in soil or groundwater will be mobilized by the infiltrating stormwater. SEE FOOTNOTE
		ng adjacent properties
15		hich the item occurs within the influence zone of the site property. See neet (click on tab at bottom of this spreadsheet).
16	Known groundwater or soil contamination on adjacent property	
17	Underground storage tank vents or fill ports	
18	Monitoring wells	
19	Soil piles covered with plastic sheeting or tarps	
20	Staining of soils and/or dead vegetation	
21 22	Unusual odors Mismanaged drums or chemical containers	
22	Excavations that are not backfilled with clean	
23	material Presence of debris that may indicate presence of structures or activities that could result in contamination	
25	Site is a confirmed stormwater hotspot	
26	Are any potential sources identified (checked) in Boxes 16 through 25? If yes, proceed to Box 27	If no, Stop - Infiltration is appropriate
27	For all potential sources identified (checked) in Boxes 16 through 25, can adequate separation be achieved? If no, proceed to Box 28.	If yes, Stop - Infiltration is appropriate
28	Construction Stormwater permittees, infiltrati	ation to suggest that contaminants may be mobilized by infiltration. For on is prohibited when the infiltration system will be constructed in areas or groundwater will be mobilized by the infiltrating stormwater. SEE FOOTNOTE
ighly rec tormwa	commended. For more information, see Stormwater management guidelines for sites with off-site	ion, such as a Phase 1 or Phase 2 Environmental Site Assessment, is ater management guidelines for sites with on-site contamination or



C.P. 2022-5 GRAND RAPIDS, MINNESOTA 55414

SARA CHRISTENSON, PI

02-10-2



48

WPPP SUMMARY/OVERVIEW

THIS STORM WATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN DEVELOPED TO ADDRESS THE REQUIREMENTS OF NPDES PERMIT MN R100001. THIS SWPPP INCLUDES A COMBINATION OF NARRATIVE AND PLAN SHEETS THAT DESCRIBE THE TEMPORARY AND PERMANENT STORM WATER MANAGEMENT PLAN FOR THE PROJECT.

PROJECT INFORMATION

LOCATION:		GRAND RAPIDS, MINNESOTA			
LATITUDE/LONG	ITUDE:	47.239216, -93.539701			
PROJECT DESCR	RIPTION:	FOREST LAKE SITE UTILITIES			
SOIL DISTURBIN	G ACTIVITIES:	REMOVALS, GRADING, PAVING, CURB & GUTTER, UTILITIES			
CONTACTS:					
OWNER:	CITY OF GRAI	ND RAPIDS			
CONTACT:	MATT WEGWE	ERTH			
ADDRESS:	420 NORTH P	OKEGAMA AVENUE GRAND RAPIDS, MINNESOTA 55744			
PHONE:	218.326.7625				
EMAIL:	MWEGWERTH	I@GRANDRAPIDSMN.GOV			
ENGINEER:	SHORT ELLIO	TT HENDRICKSON INC. (SEH)			
CONTACT:	SARA CHRIST	ENSON, PE			
PHONE:	218.322.4513				
EMAIL:	SCHRISTENS	ON@SEHINC.COM			
PROJECT NO .:	GRANR 17102	5			

KNOWLEDGEABLE PERSON/CHAIN OF RESPONSIBILITY

THE CONTRACTOR SHALL IDENTIFY A PERSON KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL BMPS WHO WILL COORDINATE WITH ALL CONTRACTORS, SUBCONTRACTORS, AND OPERATORS ON-SITE TO OVERSEE THE IMPLEMENTATION OF THE SWPPP.

CONTRACTOR	TO BE DETERMINED
CONTACT	TO BE DETERMINED
PHONE	TO BE DETERMINED
EMAIL	TO BE DETERMINED

THE CONTRACTOR SHALL ESTABLISH A CHAIN OF RESPONSIBILITY FOR ALL CONTRACTORS AND SUB-CONTRACTORS ON SITE TO ENSURE THE SWPPP IS BEING PROPERLY IMPLEMENTED AND MAINTAINED. THE CONTRACTOR SHALL PROVIDE THE CHAIN OF RESPONSIBILITY TO THE OWNER AND ATTACH TO THE SWPPP PRIOR TO ANY CONSTRUCTION ACTIVITY.

<u>GENERAL SWPPP RESPONSIBILITIES:</u> THE CONTRACTOR SHALL KEEP THE SWPPP, INCLUDING ALL AMENDMENTS AND INSPECTION AND MAINTENANCE RECORDS ON SITE DURING CONSTRUCTION

THE SWPPP WILL BE AMENDED AS NEEDED AND/OR AS REQUIRED BY PROVISIONS OF THE PERMIT. PERMITTEES MUST AMEND THE SWPPP TO INCLUDE ADDITIONAL OR MODIFIED BMPS AS NECESSARY TO CORRECT PROBLEMS IDENTIFIED OR ADDRESS SITUATIONS WHENEVER THERE IS A CHANGE IN DESIGN. CONSTRUCTION, OPERATION, MAINTENANCE, WEATHER OR SEASONAL CONDITIONS HAVING A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS OR GROUNDWATER. AMENDMENTS WILL BE APPROVED BY BOTH THE OWNER AND CONTRACTOR AND WILL BE ATTACHED OR OTHERWISE INCLUDED WITH THE SWPPP DOCUMENTS. THE SWPPP AMENDMENTS SHALL BE INITIATED, FACILITATED, AND PROCESSED BY THE CONTRACTOR

ALL SWPPP CHANGES MUST BE DONE BY AN INDIVIDUAL TRAINED IN ACCORDANCE WITH SECTION 21.2. CHANGES INVOLVING THE USE OF A LESS STRINGENT BMP MUST INCLUDE A JUSTIFICATION DESCRIBING HOW THE REPLACEMENT BMP IS EFFECTIVE FOR THE SITE CHARACTERISTICS.

BOTH THE OWNER AND CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER TERMINATION AND/OR TRANSFER OF THE PERMIT.

LONG TERM OPERATION AND MAINTENANCE

THE OWNER WILL BE RESPONSIBLE OR WILL OTHERWISE IDENTIFY WHO WILL BE RESPONSIBLE FOR THE LONG TERM OPERATION AND MAINTENANCE OF THE PERMANENT STORMWATER MANAGEMENT SYSTEM(S)

THE OWNER WILL PREPARE AND IMPLEMENT A PERMANENT STORMWATER TREATMENT SYSTEM(S) MAINTENANCE PLAN.

GRANR171025

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IMPLEMENTATION SEQUENCE: THE CONTRACTOR SHALL COMPLY WITH THE FOLLOWING SEQUENCE. THE ENGINEER MAY APPROVE ADJUSTMENTS TO THE SEQUENCE AS NEEDED

1.	INSTALL ROCK CONSTRUCTION ENTRANCE(S)
2.	INSTALL PERIMETER CONTROL AND STABILIZE DOWN GRADIENT BOUNDARIES
3.	INSTALL INLET PROTECTION ON EXISTING CATCH BASINS
4.	COMPLETE SITE GRADING
5.	INSTALL UTILITIES, STORM SEWER, INLET PROTECTION, CURB & GUTTER, PAVING
6.	COMPLETE FINAL GRADING AND STABILIZE DISTURBED AREAS
7.	AFTER CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ACCUMULATED SEDIMENT, REMOVE BMPS, AND RE-STABILIZE ANY AREAS DISTURBED BY THEIR REMOVAL.

Revision Issue Description

TRAINING DOCUMENTATION:

MICHAEL HUDEC, CIVIL TECHNICIAN
SHORT ELLIOTT HENDRICKSON, INC. (SEH)
09.10.2019
JOHN CHAPMAN, REBECCA FORMAN - U OF M

CONTENT OF TRAINING AVAILABLE UPON REQUEST.

THE CONTRACTOR (OPERATOR) SHALL ADD TO THE SWPPP TRAINING RECORDS FOR THE FOLLOWING PERSONNEL

-INDIVIDUALS OVERSEEING THE IMPLEMENTATION OF, REVISING, AND AMENDING THE SWPPP -INDIVIDUALS PERFORMING INSPECTIONS -INDIVIDUALS PERFORMING OR SUPERVISING THE INSTALLATION, MAINTENANCE AND REPAIR

OF BMPS

TRAINING MUST RELATE TO THE INDIVIDUAL'S JOB DUTIES AND RESPONSIBILITIES AND SHALL INCLUDE:

1) DATES OF TRAINING 2) NAME OF INSTRUCTORS 3) CONTENT AND ENTITY PROVIDING TRAINING

THE CONTRACTOR SHALL ENSURE THAT THE INDIVIDUALS ARE TRAINED BY LOCAL, STATE, FEDERAL AGENCIES, PROFESSIONAL ORGANIZATIONS, OR OTHER ENTITIES WITH EXPERTISE IN EROSION PREVENTION, SEDIMENT CONTROL, PERMANENT STORMWATER MANAGEMENT AND THE MINNESOTA NPDES/SDS CONSTRUCTION STORMWATER PERMIT.

PROJECT SUMMARY:

TOTAL DISTURBED AREA:	1.41 AC
PRE-CONSTRUCTION IMPERVIOUS AREA:	0.27 AC
POST-CONSTRUCTION IMPERVIOUS AREA:	0.52 AC
IMPERVIOUS AREA ADDED:	0.25 AC

RECEIVING WATER(S) WITHIN ONE MILE FROM PROJECT BOUNDARIES:

(http://pca-gisu2.pca.state.mn.us/CSw/index.ntml)							
ID	NAME	TYPE	SPECIAL WATER?	IMPAIRED WATER?	CONSTRUCTION RELATED IMPAIRMENT OR SPECIAL WATER CLASSIFICATION	TMDL	
31053300	BLANDIN	RESERVOIR	N	Y			
SEE SECTION 23 OF THE PERMIT AND APPLICABLE TMDL WLA'S							

THE FOLLOWING DOCUMENTS ARE CONSIDERED PART OF THE SWPPP: PLAN AND PROFILE PLAN SHEETS: EROSION AND SEDIMENT CONTROL PLAN SHEETS: TURF ESTABLISHMENT PLAN SHEETS: STORM SEWER PLAN & PROFILE PLAN SHEETS:

GRADING PLAN SHEETS: DETAIL PLAN SHEETS SWPPP NOTE AND DETAIL SHEETS: PROJECT SPECIFICATIONS: PROJECT BID FORM:

PROJECT SPECIFIC NOTES:

REQUIRED BY THE NPDES CONSTRUCTION PERMIT.

THE TEMPORARY BASIN MUST PROVIDE LIVE STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A TWO (2)-YEAR, 24-HOUR STORM FROM EACH ACRE DRAINED TO THE BASIN OR 1,800 CUBIC FEET OF LIVE STORAGE PER ACRE DRAINED. WHICHEVER IS GREATER.

TEMPORARY SEDIMENT BASIN OUTLETS SHALL BE CONSTRUCTED TO PREVENT SHORT-CIRCUITING AND PREVENT THE DISCHARGE OF FLOATING DEBRIS

THE DISCHARGE OF POLLUTANTS

BASINS MUST INCLUDE A STABILIZED EMERGENCY OVERFLOW, WITHDRAW WATER FROM THE SURFACE, AND PROVIDE ENERGY DISSIPATION AT THE OUTLET.

TEMPORARY SEDIMENT BASINS SHALL BE PROVIDED WITH ENERGY DISSIPATION AT ANY BASIN OUTLET TO PREVENT SOIL EROSION.

SITE SOIL INFORMATION: (http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx) (SOIL INFORMATION PROVIDED IS FOR NPDES PERMIT INFORMATION ONLY. SOIL INFORMATION WAS OBTAINED FROM THE USGS WEBSITE. THE CONTRACTOR SHALL NOT RELY ON THIS SOIL INFORMATION FOR CONSTRUCTION PURPOSES.)

SOIL NAME:	HYDROLOGIC CLASSIFICATION:
ITASCA-GOODLAND SILT LOAMS, 2-12% SLOPES	В
ANTICIPATED RANGE OF PARTICLE SIZES	FINE

RELATED REVIEWS & PERMITS

ENVIRONMENTAL, WETLAND, ENDANGERED OR THREATENED SPECIES, ARCHEOLOGICAL, LOCAL, STATE, AND/OF FEDERAL REVIEWS/PERMITS

AGENCY:	TYPE OF PERMIT:		
CITY OF GRAND RAPIDS	GRAND RAPIDS STORM WATER PERMIT		
MPCA	CONSTRUCTION STORMWATER GENERAL PERMIT		
MDH	WATER EXTENSION PERMIT		
MPCA	SANITARY SEWER EXTENSION PERMIT		



Revision Issue Description

Rev.#

Date

HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIREC ON AND THAT I AM A DULY LICENSED LIC E LAWS OF THE STATE OF MINNESOT SARA CHRISTENSON, PE 55414 02-19-2 LICENSE NO

C.P. 2022-5 GRAND RAPIDS, MINNESOTA

TEMPORARY BMP DESIGN FACTORS: EROSION PREVENTION AND SEDIMENT CONTROL BMP'S MUST BE DESIGNED TO ACCOUNT FOR:

THE EXPECTED AMOUNT, FREQUENCY, INTENSITY, AND DURATION OF PRECIPITATION

THE NATURE OF STORMWATER RUNOFF AND RON-ON AT THE SITE, INCLUDING FACTORS SUCH AS EXPECTED FLOW FROM IMPERVIOUS SURFACES, SLOPES, AND SITE DRAINAGE FEATURES

THE STORMWATER VOLUME, VELOCITY, AND PEAK FLOW RATES TO MINIMIZE DISCHARGE OF POLLUTANTS IN STORMWATER AND TO MINIMIZE CHANNEL AND STREAMBANK EROSION AND SCOUR IN THE IMMEDIATE VICINITY OF DISCHARGE POINTS

THE RANGE OF SOIL PARTICLE SIZES EXPECTED TO BE PRESENT.

TEMPORARY SEDIMENT BASINS: THE CONTRACTOR SHALL INSTALL TEMPORARY SEDIMENT BASIN(S) INDICATED ON PLANS AND

OUTLET STRUCTURES MUST BE DESIGNED TO WITHDRAW WATER FROM THE SURFACE TO MINIMIZE

SEDIMENT BASINS MUST BE SITUATED OUTSIDE OF SURFACE WATERS AND ANY BUFFER ZONES, AND MUST BE DESIGNED TO AVOID THE DRAINING WATER FROM WETLANDS.

EROSION PREVENTION MEASURES AND TIMING

THE CONTRACTOR IS RESPONSIBLE FOR ALL EROSION PREVENTION MEASURES FOR THE PROJECT.

EROSION PREVENTION MEASURES SHOWN ON PLANS ARE THE ABSOLUTE MINIMUM REQUIREMENTS THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL EROSION PREVENTION MEASURES AS NECESSARY TO PROPERLY MANAGE THE PROJECT AREA.

THE CONTRACTOR SHALL PLAN AND IMPLEMENT APPROPRIATE CONSTRUCTION PRACTICES AND CONSTRUCTION PHASING TO MINIMIZE EROSION AND RETAIN VEGETATION WHENEVER POSSIBLE

THE PERMITTEE SHALL DELINEATE AREAS NOT TO BE DISTURBED. PERMITTEE(S) MUST MINIMIZE THE NEED FOR DISTURBANCE OF PORTIONS OF THE PROJECT WITH STEEP SLOPES. WHEN STEEP SLOPES MUST BE DISTURBED, PERMITTEES MUST USE TECHNIQUES SUCH AS PHASING AND STABILIZATION PRACTICES DESIGNED FOR STEEP SLOPES.

THE CONTRACTOR SHALL STABILIZE OF ALL EXPOSED SOILS IMMEDIATELY TO LIMIT SOIL EROSION IN NO CASE SHALL ANY EXPOSED AREAS. INCLUDING STOCK PILES. HAVE EXPOSED SOILS FOR MORE THAN 14 DAYS WITHOUT PROVIDING TEMPORARY OR PERMANENT STABILIZATION. STABILIZATION MUST BE COMPLETED WITHIN 14 DAYS AFTER CONSTRUCTION ACTIVITY HAS CEASED. TEMPORARY STOCKPILES WITHOUT SIGNIFICANT CLAY, SILT, OR ORGANIC COMPONENTS DO NOT REQUIRE STABILIZATION.

DRAINAGE PATHS DITCHES AND/OR SWALES SHALL HAVE TEMPORARY OR PERMANENT STABILIZATION WITHIN 24 HOURS OF CONNECTING TO A SURFACE WATER OR 24 HOURS AFTER CONSTRUCTION ACTIVITY IN THE DITCH/SWALE HAS TEMPORARILY OR PERMANENTLY CEASED

THE CONTRACTOR SHALL COMPLETE THE STABILIZATION OF ALL EXPOSED SOILS WITHIN 24 HOURS. THAT LIE WITHIN 200 FEET OF PUBLIC WATERS PROMULGATED "WORK IN WATER RESTRICTIONS" BY THE MN DNR DURING SPECIFIED FISH SPAWNING TIMES.

THE CONTRACTOR SHALL IMPLEMENT EROSION CONTROL BMPS AND VELOCITY DISSIPATION DEVICES ALONG CONSTRUCTED STORMWATER CONVEYANCE CHANNELS AND OUTLETS.

THE CONTRACTOR SHALL STABILIZE TEMPORARY AND/OR PERMANENT DRAINAGE DITCHES OR SWALES WITHIN 200 LINEAL FEET FROM PROPERTY EDGE, OR DISCHARGE POINT(S) WITHIN 24 HOURS AFTER CONNECTING TO A SURFACE WATER OR PROPERTY EDGE.

TEMPORARY OR PERMANENT DITCHES OR SWALES USED AS A SEDIMENT CONTAINMENT SYSTEM DURING CONSTRUCTION MUST BE STABILIZED WITHIN 24 HOURS AFTER NO LONGER BEING USED AS A SEDIMENT CONTAINMENT SYSTEM

THE CONTRACTOR SHALL NOT LITH IZE HYDROMULCH TACKIEIER POLYACRYLAMIDE OR SIMILAR EROSION PREVENTION PRACTICES AS A FORM OF STABILIZATION FOR TEMPORARY OR PERMANENT DRAINAGE DITCHES OR SWALE SECTION WITH A CONTINUOUS SLOPE OF GREATER THAN 2 PERCENT.

THE CONTRACTOR SHALL ENSURE PIPE OUTLETS HAVE TEMPORARY OR PERMANENT ENERGY DISSIPATION WITH IN 24 HOURS OF CONNECTION TO A SURFACE WATER.

THE CONTRACTOR SHALL DIRECT DISCHARGES FROM BMPS TO VEGETATED AREAS TO INCREASE SEDIMENT REMOVAL AND MAXIMIZE STORMWATER INFILTRATION. VELOCITY DISSIPATION DEVICES MUST BE USED TO PREVENT EROSION WHEN DIRECTING STORMWATER TO VEGETATED AREAS.

SEDIMENT CONTROL MEASURES AND TIMING THE CONTRACTOR IS RESPONSIBLE FOR ALL SEDIMENT CONTROL MEASURES FOR THE PROJECT.

SEDIMENT CONTROL MEASURES SHOWN ON PLANS ARE THE ABSOLUTE MINIMUM REQUIREMENTS THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL SEDIMENT CONTROL MEASURES AS NECESSARY TO PROPERLY MANAGE THE PROJECT AREA.

THE CONTRACTOR SHALL ENSURE SEDIMENT CONTROL MEASURES ARE ESTABLISHED ON ALL DOWN GRADIENT PERIMETERS BEFORE ANY UPGRADIENT LAND DISTURBING ACTIVITIES BEGIN. THESE MEASURES SHALL REMAIN IN PLACE UNTIL FINAL STABILIZATION HAS BEEN ESTABLISHED.

A FLOATING SILT CURTAIN PLACED IN THE WATER IS NOT A SEDIMENT CONTROL BMP EXCEPT WHEN WORKING ON A SHORELINE OR BELOW THE WATERLINE. IMMEDIATELY AFTER THE SHORT TERM CONSTRUCTION ACTIVITY IS COMPLETE, PERMITTEE(S) MUST INSTALL AN UPLAND PERIMETER CONTROL PRACTICE IF EXPOSED SOILS STILL DRAIN TO A SURFACE WATER.

THE CONTRACTOR SHALL ENSURE SEDIMENT CONTROL PRACTICES REMOVED OR ADJUSTED FOR SHORT-TERM ACTIVITIES BE RE-INSTALLED IMMEDIATELY AFTER THE SHORT-TERM ACTIVITY HAS BEEN COMPLETED. SEDIMENT CONTROL PRACTICES MUST BE REINSTALLED BEFORE THE NEXT PRECIPITATION EVENT EVEN IF THE SHORT-TERM ACTIVITY IS NOT COMPLETE.

THE CONTRACTOR SHALL ENSURE STORM DRAIN INLETS ARE PROTECTED BY APPROPRIATE BMPS DURING CONSTRUCTION UNTIL ALL SOURCES WITH POTENTIAL FOR DISCHARGING TO THE INLET HAVE BEEN STABILIZED.

THE CONTRACTOR SHALL PROVIDE SILT FENCE OR OTHER EFFECTIVE SEDIMENT CONTROL AT THE BASE OF THE STOCKPILES.

THE CONTRACTOR SHALL INSTALL PERIMETER CONTROL AROUND ALL STAGING AREAS, BORROW PITS, AND AREAS CONSIDERED ENVIRONMENTALLY SENSITIVE

THE CONTRACTOR SHALL ENSURE VEHICLE TRACKING BE MINIMIZED WITH EFFECTIVE BMPS. WHERE THE BMPS FAIL TO PREVENT SEDIMENT FROM TRACKING ONTO STREETS THE CONTRACTOR SHALL CONDUCT STREET SWEEPING TO REMOVE ALL TRACKED SEDIMENT.

THE CONTRACTOR SHALL IMPLEMENT CONSTRUCTION PRACTICES TO MINIMIZE SOIL COMPACTION.

THE CONTRACTOR SHALL ENSURE ALL CONSTRUCTION ACTIVITY REMAIN WITHIN PROJECT LIMITS AND THAT ALL IDENTIFIED RECEIVING WATER BUFFERS ARE MAINTAINED.

RECEIVING WATER	NATURAL BUFFER	IS THE BUFFER BEING ENCROACHED ON?	REASON FOR BUFFER ENCROACHMENT	
MISSISSIPPI RIVER / BLANDIN RESERVOIR	100 FT	N	N/A	

A 50 FOOT NATURAL BUFFER MUST BE PRESERVED OR PROVIDE REDUNDANT (DOUBLE) PERIMETER SEDIMENT CONTROLS IF NATURAL BUFFER IS INFEASIBLE.

THE CONTRACTOR SHALL NOT UTILIZE SEDIMENT CONTROL CHEMICALS ON SITE.

INSPECTION AND MAINTENANCE

ALL INSPECTIONS, MAINTENANCE, REPAIRS, REPLACEMENTS, AND REMOVAL OF BMPS IS TO BE CONSIDERED INCIDENTAL TO THE BMP BID ITEMS.

THE PERMITTEE(S) IS RESPONSIBLE FOR COMPLETING SITE INSPECTIONS, AND BMP MAINTENANCE TO ENSURE COMPLIANCE WITH THE PERMIT REQUIREMENTS.

THE PERMITTEE(S) SHALL INSPECT THE CONSTRUCTION SITE ONCE EVERY 7 DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS

THE PERMITTEE(S) SHALL DOCUMENT A WRITTEN SUMMARY OF ALL INSPECTIONS AND MAINTENANCE ACTIVITIES CONDUCTED WITHIN 24 HOURS OF OCCURRENCE. RECORDS OF EACH ACTIVITY SHALL INCLUDE THE FOLLOWING:

-DATE AND TIME OF INSPECTIONS;

-NAME OF PERSON(S) CONDUCTING INSPECTION; -FINDINGS AND RECOMMENDATIONS FOR CORRECTIVE ACTIONS IF NECESSARY;

CORRECTIVE ACTIONS TAKEN

-DATE AND AMOUNT OF RAINFALL EVENTS

POINTS OF DISCHARGE OBSERVED DURING INSPECTION AND DESCRIPTION OF THE DISCHARGE -AMENDMENTS MADE TO THE SWPPP

THE PERMITTEE(S) SHALL SUBMIT A COPY OF THE WRITTEN INSPECTIONS TO THE ENGINEER AND OWNER ON A MONTHLY BASIS. IF MONTHLY INSPECTION REPORTS ARE NOT SUBMITTED, MONTHLY PAYMENTS MAY BE HELD.

THE CONTRACTOR SHALL DOCUMENT AMENDMENTS TO THE SWPPP AS A RESULT OF INSPECTION(S) WITHIN 7 DAYS.

THE CONTRACTOR SHALL KEEP THE SWPPP, ALL INSPECTION REPORTS, AND AMENDMENTS ONSITE. THE CONTRACTOR SHALL DESIGNATE A SPECIFIC ONSITE LOCATION TO KEEP THE RECORDS

THE CONTRACTOR IS RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF TEMPORARY AND PERMANENT WATER QUALITY BMP'S, AS WELL AS EROSION AND SEDIMENT CONTROL BMP'S

THE CONTRACTOR SHALL INSPECT EROSION PREVENTION AND SEDIMENTATION CONTROL BMPS TO ENSURE INTEGRITY AND EFFECTIVENESS. ALL NONFUNCTIONAL BMPS SHALL BE REPAIRED, REPLACED, OR SUPPLEMENTED WITH FUNCTIONAL BMPS WITHIN 24 HOURS OF FINDING. THE CONTRACTOR SHALL INVESTIGATE AND COMPLY WITH THE FOLLOWING INSPECTION AND MAINTENANCE REQUIREMENTS PERIMETER CONTROL DEVICES, INCLUDING SILT FENCE SHALL BE REPAIRED, OR REPLACED, WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES 1/2 OF THE DEVICE HEIGHT, THESE REPAIRS SHALL BE MADE WITHIN 24 HOURS OF DISCOVERY

SURFACE WATERS, INCLUDING DRAINAGE DITCHES AND CONVEYANCE SYSTEMS, MUST BE INSPECTED FOR EVIDENCE OF EROSION AND SEDIMENT DEPOSITION. THE CONTRACTOR SHALL REMOVE ALL DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS, INCLUDING DRAINAGE WAYS, CATCH BASINS, AND OTHER DRAINAGE SYSTEMS. THE CONTRACTOR SHALL RE-STABILIZE THE AREAS WHERE SEDIMENT REMOVAL RESULTS IN EXPOSED SOIL, REMOVAL AND STABILIZATION MUST TAKE PLACE WITHIN 7 DAYS OF DISCOVERY, UNLESS PRECLUDED BY LEGAL, REGULATORY, OR PHYSICAL CONSTRAINTS. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL LOCAL, REGIONAL, STATE AND FEDERAL AUTHORITIES AND OBTAIN ANY APPLICABLE PERMITS, PRIOR TO CONDUCTING ANY WORK IN SURFACE WATERS.

CONSTRUCTION SITE VEHICLE EXIT LOCATIONS SHALL BE INSPECTED DAILY FOR EVIDENCE OF SEDIMENT TRACKING ONTO PAVED SURFACES. TRACKED SEDIMENT MUST BE REMOVED FROM ALL PAVED SURFACES WITHIN 24 HOURS OF DISCOVERY.

IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT MUST BE REMOVED IN A MANOR AND AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMDACTS

EROSION PREVENTION BMP SUMMARY: SEE EROSION AND SEDIMENT CONTROL PLAN SHEET AND BID FORM FOR TYPE, LOCATION, AND QUANTITY OF EROSION PREVENTION BMPS.

SEDIMENT CONTROL BMP SUMMARY: SEE EROSION AND SEDIMENT CONTROL PLAN SHEETS AND BID FORM FOR TYPE, LOCATION, AND QUANTITY OF SEDIMENT CONTROL BMPS.

REGULATIONS

IF WATER CANNOT BE DISCHARGED TO A SEDIMENTATION BASIN, IT SHALL BE TREATED WITH OTHER APPROPRIATE BMPS. TO EFFECTIVELY REMOVE SEDIMENT.

DISCHARGE THAT CONTAINS OIL OR GREASE MUST BE TREATED WITH AN OIL-WATER SEPARATOR OR UITABLE FILTRATION DEVICE PRIOR TO DISCHARGE

BACKWASH WATER USED FOR FILTERING SHALL BE HAULED AWAY FOR DISPOSAL, RETURNED TO THE BEGINNING OF TREATMENT PROCESS, OR INCORPORATED INTO THE SITE IN A MANNER THAT DOES NOT CAUSE EROSION. THE CONTRACTOR SHALL REPLACE AND CLEAN FILTER MEDIAS USED IN DEWATERING DEVICES WHEN REQUIRED TO MAINTAIN ADEQUATE FUNCTION

ALL POLLUTION PREVENTION MEASURES ARE CONSIDERED INCIDENTAL TO THE MOBILIZATION BID ITEM, UNLESS OTHERWISE NOTED.

THE CONTRACTOR SHALL ENSURE BUILDING PRODUCTS THAT HAVE THE POTENTIAL TO LEAK POLLUTANTS ARE KEPT UNDER COVER TO PREVENT THE DISCHARGE OF POLLUTANTS

THE CONTRACTOR SHALL ENSURE HAZARDOUS MATERIALS AND TOXIC WASTE IS PROPERLY STORED IN SEALED CONTAINERS TO PREVENT SPILLS, LEAKS, OR OTHER DISCHARGE, STORAGE AND DISPOSAL OF HAZARDOUS WASTE OR HAZARDOUS MATERIALS MUST BE IN COMPLIANCE WITH MINN. R. CH. 7045 INCLUDING SECONDARY CONTAINMENT AS APPLICABLE

THE CONTRACTOR SHALL ENSURE ASPHALT SUBSTANCES USED ON-SITE SHALL ARE APPLIED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

THE CONTRACTOR SHALL ENSURE PAINT CONTAINERS AND CURING COMPOUNDS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT AND/OR CURING COMPOUNDS SHALL NOT BE DISCHARGED INTO THE STORM SEWER SYSTEM AND SHALL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURE'S INSTRUCTION.

THE CONTRACTOR SHALL ENSURE SOLID WASTE BE STORED, COLLECTED AND DISPOSED OF PROPERLY IN COMPLIANCE WITH MINN, R. CH. 7035.

THE CONTRACTOR SHALL ENSURE POTABLE TOILETS ARE POSITIONED SO THAT THEY ARE SECURE AND WILL NOT BE TIPPED OR KNOCKED OVER. SANITARY WASTE MUST BE DISPOSED OF PROPERLY IN ACCORDANCE WITH MINN, R. CH. 7041.

THE CONTRACTOR SHALL MONITOR ALL VEHICLES ON-SITE FOR LEAKS AND RECEIVE REGULAR PREVENTION MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE.

THE CONTRACTOR SHALL INCLUDE SPILL KITS WITH ALL FUELING SOURCES AND MAINTENANCE ACTIVITIES. SECONDARY CONTAINMENT MEASURES SHALL BE INSTALLED AND MAINTAINED BY THE CONTRACTOR.

C.P. 2022-5 GRAND RAPIDS, MINNESOTA

SEH Project	GRANR171025	Rev.#	Description	Date	Rev.#	Description	Date	SUPERVISION AND THAT I AM A DULY LICENSED LICENSE PROFESSIONAL UNDER	
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Designed By	SLC							SFH SARA (HIRSTENSON, PE	
Charlind Du	D ID								

TEMPORARY AND PERMANENT SEDIMENT BASINS SHALL BE DRAINED AND THE SEDIMENT REMOVED WHEN THE DEPTH OF SEDIMENT COLLECTED IN THE BASIN REACHES 1/2 THE STORAGE VOLUME. DRAINAGE AND REMOVAL MUST BE COMPLETED WITHIN 72 HOURS OF DISCOVERY

DEWATERING AND BASIN DRAINING ACTIVITIES THE CONTRACTOR IS RESPONSIBLE FOR ADHERING TO ALL DEWATERING AND SURFACE DRAINAGE

WATER FROM DEWATERING ACTIVITIES SHALL DISCHARGE TO A TEMPORARY AND/OR PERMANENT SEDIMENT BASIN.

WATER FROM DEWATERING SHALL BE DISCHARGED IN A MANNER THAN DOES NOT CAUSE NUISANCE CONDITIONS, EROSION, OR INUNDATION OF WETLANDS.

POLLUTION PREVENTION MANAGEMENT MEASURES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POLLUTION PREVENTION MANAGEMENT MEASURES.

THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER DISPOSAL, IN COMPLIANCE WITH MPCA DISPOSAL REQUIREMENTS, OF ALL HAZARDOUS MATERIALS, SOLID WASTE, AND PRODUCTS ON-SITE.

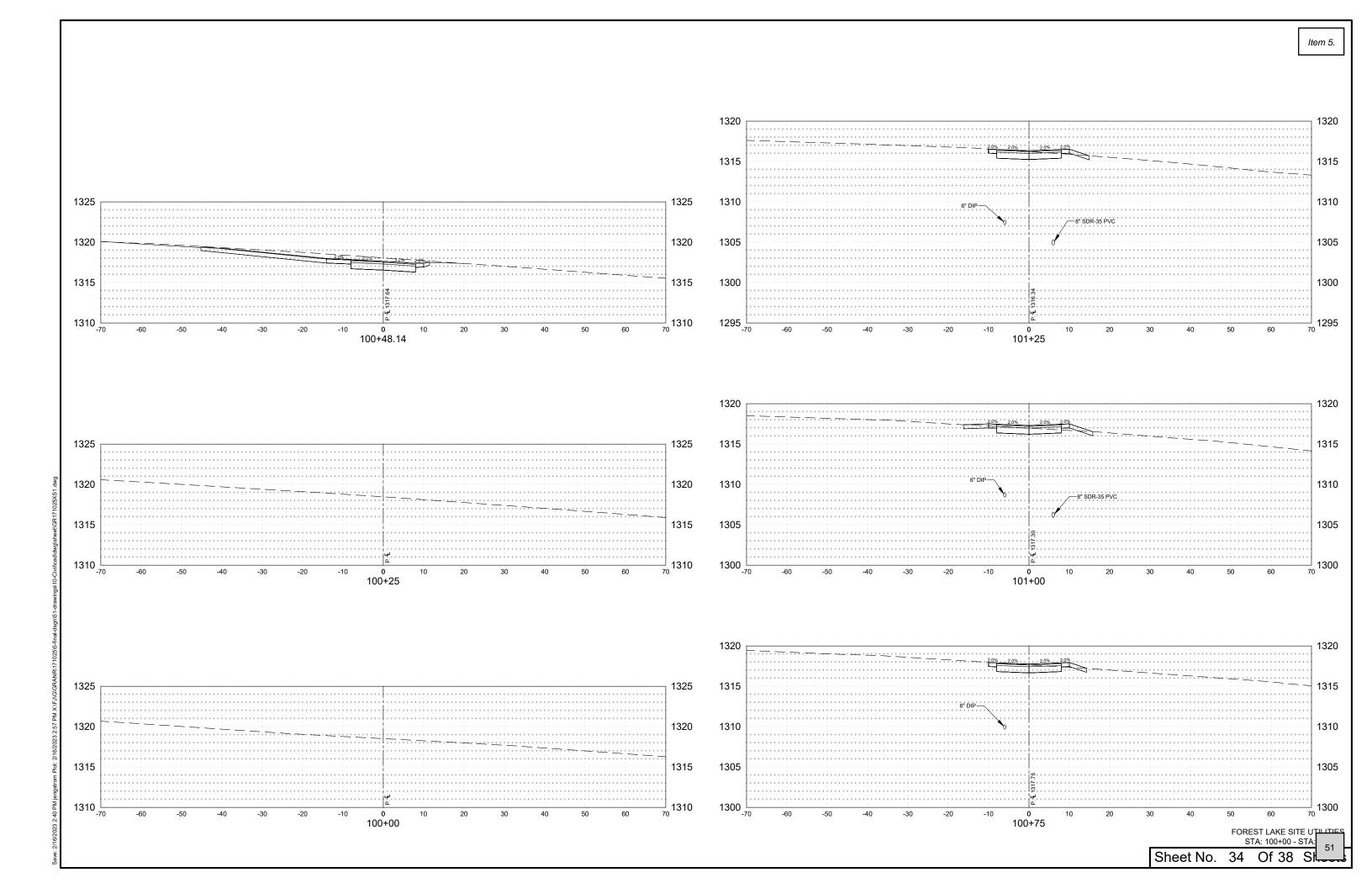
THE CONTRACTOR SHALL ENSURE PESTICIDES, HERBICIDES, INSECTICIDES, FERTILIZERS, TREATMENT CHEMICALS, AND LANDSCAPE MATERIALS ARE COVERED TO PREVENT THE DISCHARGE OF POLLUTANTS.

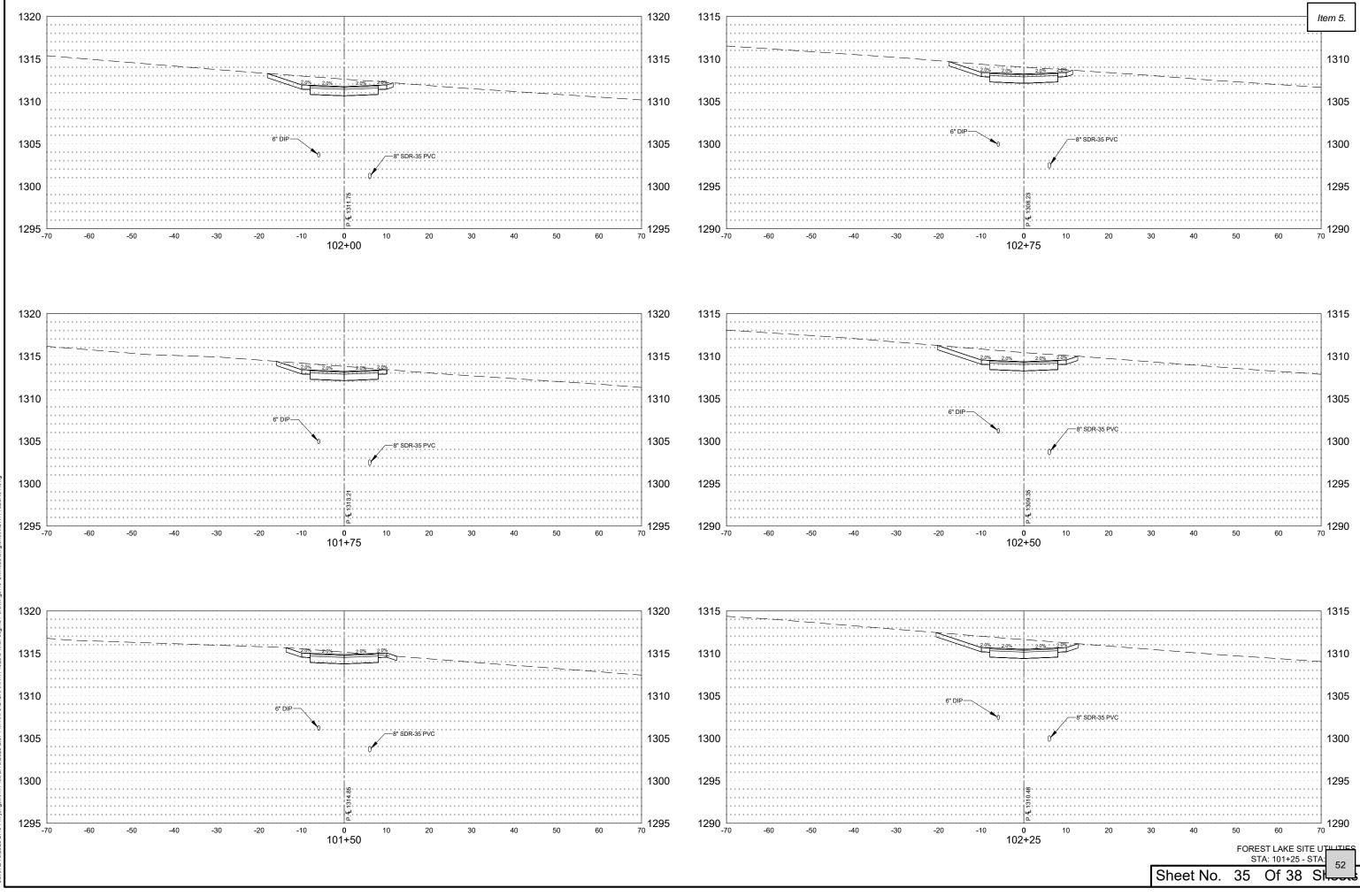
THE CONTRACTOR SHALL ENSURE WASHOUT WASTE MUST CONTACT THE GROUND AND BE PROPERLY DISPOSED OF IN COMPLIANCE WITH MPCA RULES.

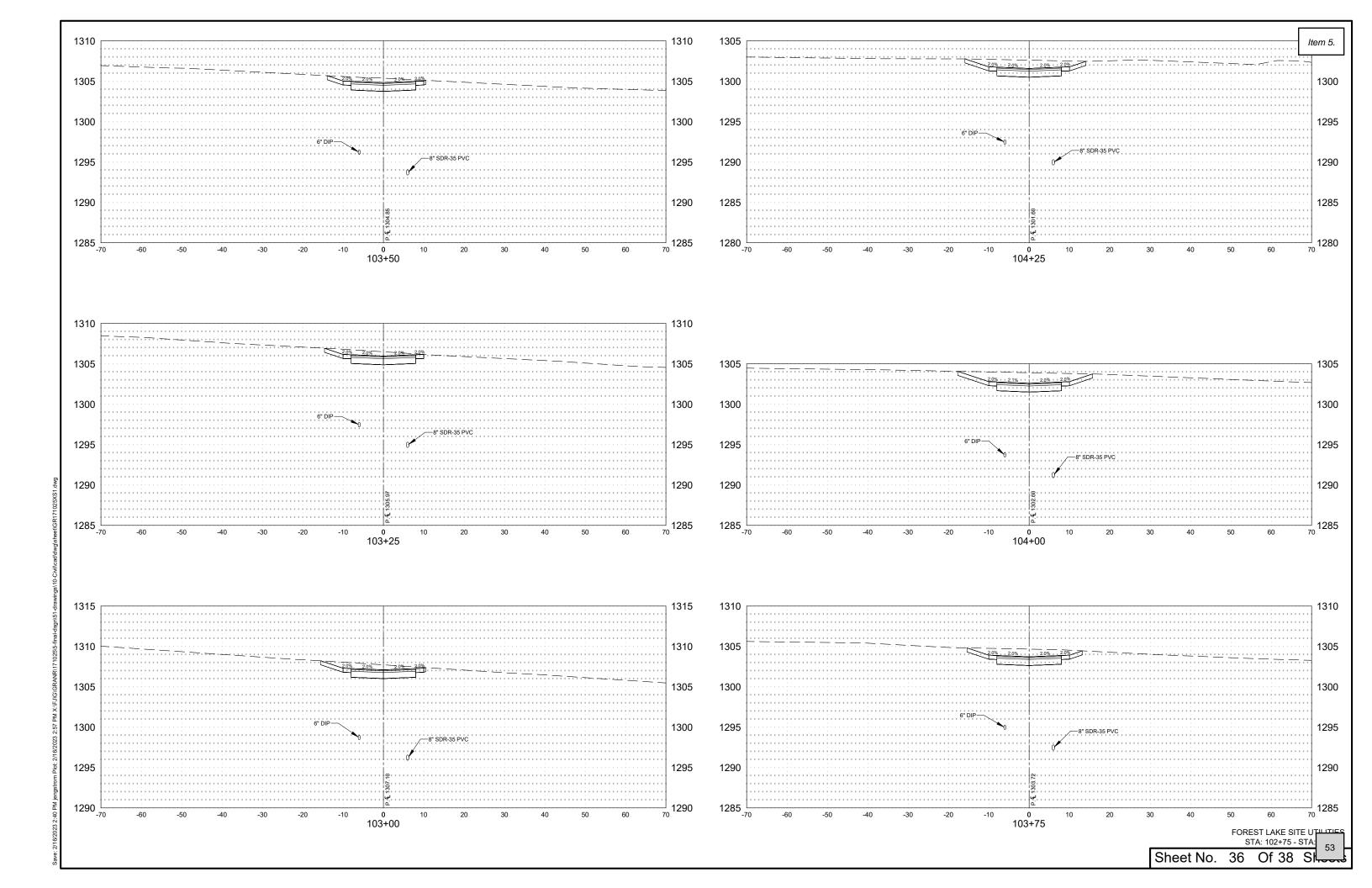
THE CONTRACTOR SHALL ENSURE SPILLS ARE CONTAINED AND CLEANED UP IMMEDIATELY UPON DISCOVERY. SPILLS LARGE ENOUGH TO REACH THE STORM WATER CONVEYANCE SYSTEM SHALL BE REPORTED TO THE MINNESOTA DUTY OFFICER AT 1.800.422.0798

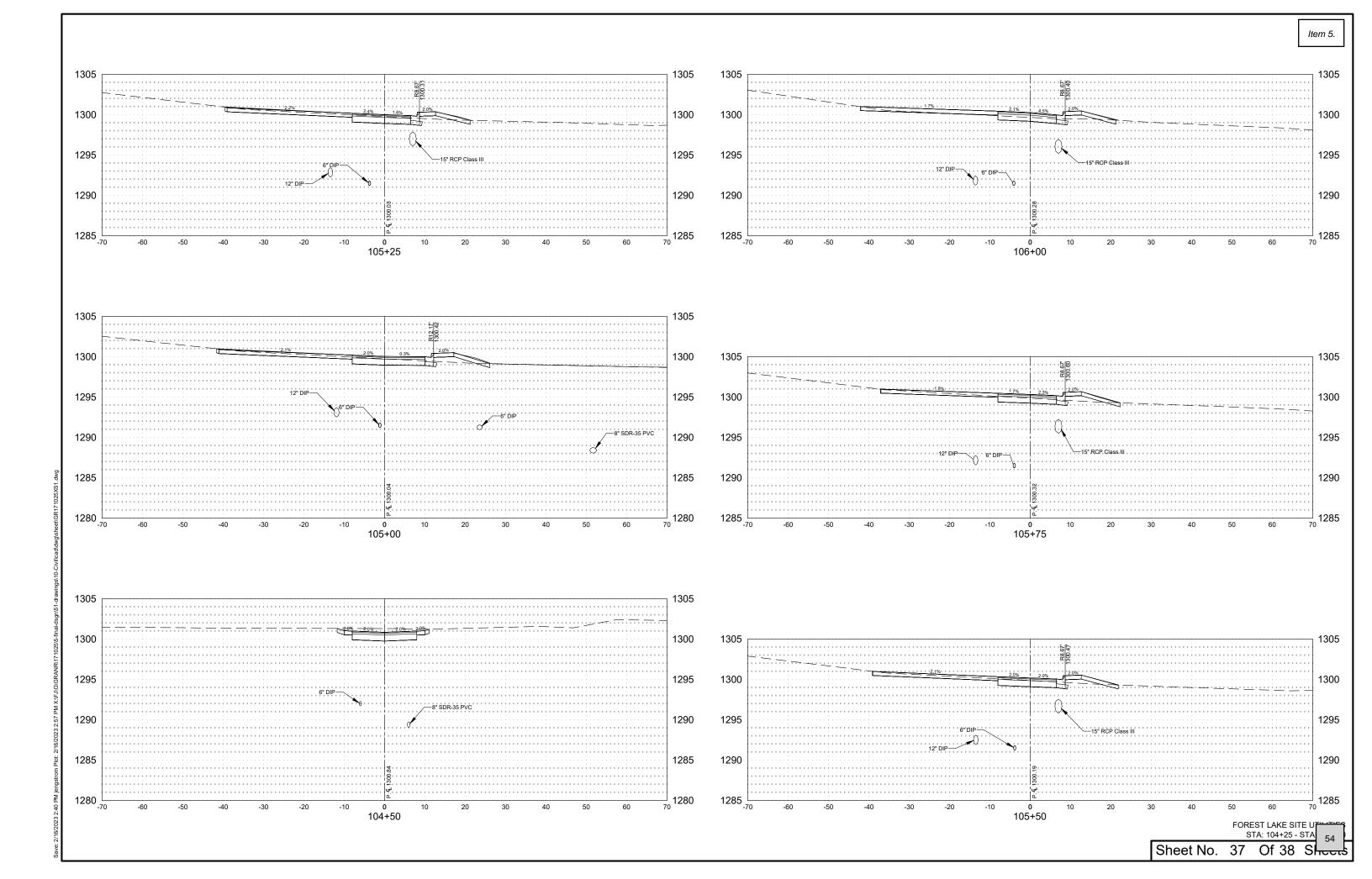
SWPP FOREST LAKE SITE UTILITIES

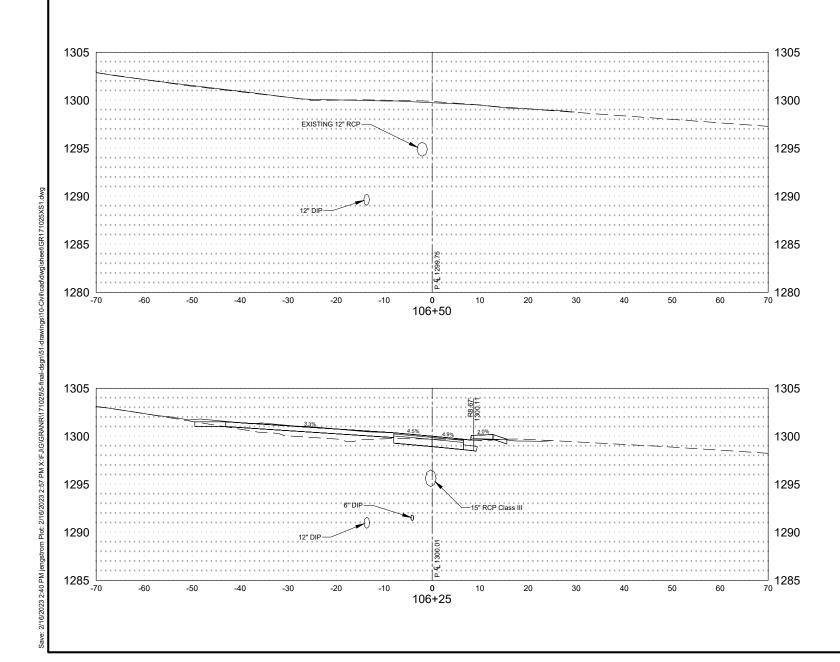
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