

ZONING COMMITTEE STAFF REPORT

1. **FILE NAME:** CP Railway Radio Shop **FILE #** 17-215-822
2. **APPLICANT:** Canadian Pacific Railway **HEARING DATE:** December 7, 2017
3. **TYPE OF APPLICATION:** Conditional Use Permit
4. **LOCATION:** 1000 Shop Road,
5. **PIN & LEGAL DESCRIPTION:** 032822320005, Section 3 Town 28 Range 22 Ex Area In Lease 82316 The Fol; Part Of Nw 1/4 Of Sw 1/4 Swly Of C M St P & P Rr R/w In Sec 3 Tn 28 Rn 22; 032822320006, SECTION 3 TOWN 28 RANGE 22 THAT PART OF THE FOLLOWING WHICH LIES NLY OF THE N L OF GOVT LOT 5 SEC 4 TN 28RN 22 & NLY OF THE N L OF SW 1/4 OF SW 1/4 OF SEC 3 TN 28 RN 22 AN IRREGULAR SHAPED PARCEL FKA LEASE NO.82316 LYING SWLY OF RR COS HUMP YARD ELY OF PIGS EYE RUN RUN FROM NW COR OF SEC 10 SE TO SE COR OF NE 1/4 OF NW 1/4 OF SEC 10 BEING PART OF SECS 3 & 4 TN 28 RN 22
6. **PLANNING DISTRICT:** 1 **PRESENT ZONING:** I2, FF/RC2
7. **ZONING CODE REFERENCE:** §61.501, §72.73, §72.73
8. **STAFF REPORT DATE:** November 29, 2017 **BY:** Josh Williams
9. **DATE RECEIVED:** November 21, 2017 **60-DAY DEADLINE FOR ACTION:** January 20, 2018

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- A. **PURPOSE:** Conditional use permit for elevation of a building on piles rather than fill to be above the regulatory flood protection elevation.
 - B. **PARCEL SIZE:** 22.49 acres (19,830 s.f. area of disturbance)
 - C. **EXISTING LAND USE:** Railyard (I2, FF/RC2)
 - D. **SURROUNDING LAND USE:**
North, East, West, and South: Industrial and railroad (I2, FF/RC2)
 - E. **ZONING CODE CITATION:** §72.73 states that any structure in the FF flood fringe district not elevated on fill requires a conditional use permit; §72.74 lists standards for conditional uses in the FF flood fringe district; §61.501 lists general conditions that must be met by all conditional uses.
 - F. **HISTORY/DISCUSSION:** Multiple conditional use permits have been granted for structures within the railyard, which is comprised of multiple parcels. The most recent CUP was for an office building for the car repair department in August 2017. The proposed building includes new garage space attached to an existing garage (both below the Regulatory Flood Protection Elevation or RFPE), plus new office and work space (above the RPFE).
 - G. **PARKING:** The gross floor area (GFA) of the proposed building is approximately 3,700 square feet, and requires a minimum of nine off-street parking spaces (the zoning code requires one off-street parking space per 400 sq. ft. GFA for office uses). The plans provided do not indicate how space in the attached garage will be allocated. The existing and new garages would accommodate a portion but not all of these vehicles. However, the proposed building is part of a larger facility where ample off-street surface parking is available. Staff recommend that identification of parking on the site sufficient to meet the required minimum for the building be handled as part of the required site plan review, at the discretion of site plan review staff.
 - H. **DISTRICT COUNCIL RECOMMENDATION:** As of the date of this staff report, the District 1 Council had not provided a recommendation.
 - I. **FINDINGS:**
 1. The applicant proposes to construct a new office building for the radio department. The new building will have approximately 3,700 finished square feet elevated to the Regulatory Flood Protection Elevation (RFPE, elevation of 708.8') and approximately 1,900 square feet of new garage at grade (705.7'). The Base Flood Elevation (BFE, or 100-year flood) for the site has been calculated at 706.8'.
 2. The garage and exterior foundation walls will be constructed to the FP-3 or FP-4 floodproofing standards. The garage is designed to flood internally, and required automatic openings are provided to allow movement of water and equalization of hydrostatic pressure. The remainder of

the building will be elevated on fill within the foundation walls. The foundation walls will be anchored to helical piles.

3. §72.74 lists standards for conditional uses in the FF flood fringe district. Subsections (a) through (d) are applicable to the proposed project:
 - (a) *Alternative elevation methods other than the use of fill may be utilized to elevate a structure's lowest floor above the regulatory flood protection elevation. These alternative methods may include the use of stilts, pilings, parallel walls or above grade, enclosed areas such as crawl spaces or tuck-under garages. The base or floor of an enclosed area shall be considered above grade and not a structure's basement or lowest floor if: 1) the enclosed area is above grade on at least one (1) side of the structure; 2) is designed to internally flood and is constructed with flood-resistant materials; and 3) is used solely for parking of vehicles, building access or storage. The above-noted alternative elevation methods are subject to the following additional standards:*
 - (1) *Design and certification. The structure's design and as-built condition must be certified by a registered professional engineer or architect as being in compliance with the general design standards of the Minnesota State Building Code and, specifically, that all electrical, heating, ventilation, plumbing and air conditioning equipment and other service facilities must be at or above the regulatory flood protection elevation or be designed to prevent floodwater from entering or accumulating within these components during times of flooding.*
 - (2) *Specific standards for above grade, enclosed areas. Above grade, fully enclosed areas such as crawl spaces or tuck-under garages must be designed to internally flood and the design plans must stipulate:*
 - a. *A minimum area of "automatic" openings in the walls where internal flooding is to be used as a floodproofing technique. There shall be a minimum of two (2) openings on at least two (2) sides of the structure and the bottom of all openings shall be no higher than one (1) foot above grade. The automatic openings shall have a minimum net area of not less than one (1) square inch for every square foot of enclosed area subject to flooding unless a registered professional engineer or architect certifies that a smaller net area would suffice. The automatic openings may be equipped with screens, louvers, valves or other coverings or devices, provided that they permit the automatic entry and exit of floodwaters without any form of intervention.*
 - b. *That the enclosed area will be designed of flood-resistant materials in accordance with the FP-3 or FP-4 classifications in the Minnesota State Building Code and shall be used solely for building access, parking of vehicles or storage.*
 - (b) *Basements, as defined in §72.14, shall be subject to the following:*
 - (1) *Residential basement construction shall not be allowed below the regulatory flood protection elevation except as authorized in subsection (e) of this section.*
 - (2) *Nonresidential basements may be allowed below the regulatory flood-protection elevation, provided the basement is protected in accordance with subsection (c) or (e) of this section.*
 - (c) *All areas of nonresidential structures including basements to be placed below the regulatory flood protection elevation shall be structurally dry floodproofed in accordance with the FP-1 or FP-2 floodproofing classifications in the Minnesota State Building Code. This shall require making the structure watertight, with the walls substantially impermeable to the passage of water and with structural components having the capability of resisting hydrostatic and hydrodynamic loads and the effects of buoyancy. Structures floodproofed to the FP-3 or FP-4 classification shall not be permitted.*
 - (d) *The storage or processing of materials that are, in times of flooding, flammable, explosive or potentially injurious to human, animal or plant life is prohibited. Storage of other materials or*

equipment may be allowed if readily removable from the area within the time available after a flood warning and in accordance with a plan approved by the planning commission, or if elevated above the regulatory flood protection elevation by alternative methods which meet the requirements of subsection (a) above. Storage of bulk materials may be allowed provided an erosion/sedimentation control plan is submitted which clearly specifies methods to be used to stabilize the materials on site for a regional flood event. The plan must be prepared and certified by a registered professional engineer or other qualified individual acceptable to the planning commission.

- (e) *When the Federal Emergency Management Agency has issued a letter of map revision-fill (LOMR-F) for vacant parcels of land elevated by fill to the one (1) percent chance flood elevation, the area elevated by fill remains subject to the provisions of this chapter. A structure may be placed on the area elevated by fill with the lowest floor below the regulatory flood protection elevation provided the structure meets the following provisions:*
- (1) *No floor level or portion of a structure that is below the regulatory flood protection elevation shall be used as habitable space or for storage of any property, materials, or equipment that might constitute a safety hazard when contacted by floodwaters. Habitable space shall be defined as any space in a structure used for living, sleeping, eating or cooking. Bathrooms, toilet compartments, closets, halls, storage rooms, laundry or utility space, and similar areas are not considered habitable space.*
 - (2) *For residential and nonresidential structures, the basement floor may be placed below the regulatory flood protection elevation subject to the following standards:*
 - a. *The top of the immediate floor above any basement area shall be placed at or above the regulatory flood protection elevation.*
 - b. *Any area of the structure placed below the regulatory flood protection elevation shall meet the "reasonably safe from flooding" standards in the Federal Emergency Management Agency (FEMA) publication entitled "Ensuring that Structures Built on Fill In or Near Special Flood Hazard Areas Are Reasonably Safe From Flooding," Technical Bulletin 10-01, a copy of which is hereby adopted by reference and made part of this chapter. In accordance with the provisions of this chapter, and specifically section 72.33(g), the applicant shall submit documentation that the structure is designed and built in accordance with either the "Simplified Approach" or "Engineered Basement Option" found in FEMA Technical Bulletin 10-01.*
 - c. *If the ground surrounding the lowest adjacent grade to the structure is not at or above the regulatory flood protection elevation, then any portion of the structure that is below the regulatory flood protection elevation must be floodproofed consistent with any of the FP-1 through FP-4 floodproofing classifications found in the Minnesota State Building Code.*

These standards can be met. The applicant has proposed a building consistent with the requirements of this section. As a condition of approval, the applicant should provide building and foundation plans and record of as-built condition for the building signed by a registered professional engineer or architect and verifying consistency with the applicable requirements of §72.74 of the Saint Paul code, the Minnesota State Building Code, and FEMA Technical Bulletin 10-01. Storage may be allowed in the garage of the proposed building, provided all stored materials are removed in times of flooding. Review and acceptance by the Department of Safety and Inspections of an updated flood response plan for the CP Rail Pig's Eye yard that incorporates the proposed building should be a condition of approval.

4. §72.32 lists thirteen (13) factors to be considered in evaluating applications for conditional use permits in the FF flood fringe district:
 - (a) *The relationship of the proposed use to the comprehensive plan and floodplain management program for the city. Subject to meeting the standards listed in §72.74, this proposed use is in conformance with the Saint Paul Comprehensive Plan and the City's floodplain management*

program. Policy 5.1.3 of the river corridor chapter of the comprehensive plan supports continuation of and additions to industrial uses in the Childs Road industrial area if said additions will not have significant adverse impacts on air or water quality nor impair river valley views. The proposed additions are to an existing facility located in a large industrial area, and will not significantly alter river valley views. The proposed building will not result in air or water quality impacts.

- (b) *The importance of the services provided by the proposed facility to the community.* This finding is not applicable. The proposed building will be part of an existing facility.
- (c) *The ability of the existing topography, soils, and geology to support and accommodate the proposed use.* The proposed use is a new building within an existing railyard facility. The area is characterized by flat topography. While soils and geology of the area have long supported railyard operations and associated structures, the proposed building is to be constructed on helical piles to ensure sufficient foundational support.
- (d) *The compatibility of the proposed use with existing characteristics of biologic and other natural communities.* The proposed building is to be located in an existing railyard; the area is industrial in character, and does not contain significant biological communities. Impacts of the proposed building will not extend beyond the immediate area.
- (e) *The proposed water supply and sanitation systems and the ability of those to prevent disease, contamination, and unsanitary conditions.* The area is already served by adequate water supply and sanitation systems. The proposed building will replace an existing building, which is to be demolished, and will not create significant additional demand for water supply or sanitation capability.
- (f) *The requirements of the facility for a river-dependent location, if applicable.* The proposed building is part of an existing railyard facility that is located within the river corridor.
- (g) *The safety of access to the property for ordinary vehicles.* Safe access to the site is available via Childs Road and Shop Road.
- (h) *The susceptibility of the proposed facility and its contents to flood damage and the effect of such damage on the individual owner.* The proposed structure will be built to FP-3 or FP-4 wet floodproofing standards. In times of flooding, the building will be evacuated per the applicant's flood response plan. The applicant is self-insured.
- (i) *The dangers to life and property due to increased flood heights or velocities caused by encroachments.* The proposed encroachments are of limited footprint and located in the flood fringe where impacts on flood flows are negligible.
- (j) *The expected heights, velocity, duration, rate of rise, and sediment transport of the floodwaters expected at the site.* The proposed building is located in the flood fringe, where the velocity of flood flow is generally minimal.
- (k) *The danger that materials may be swept onto other lands or downstream to the injury of others.* The proposed building will be constructed of floodproof materials, and any items stored below the RFPE will be removed in times of flooding. The proposed building will also be located in the flood fringe, where velocity of flood flows is generally minimal.
- (l) *The availability of alternative locations or configurations for the proposed use.* The proposed building is part of an existing facility which is located within the flood fringe.
- (m) *Such other factors as are relevant to the purposes of this chapter.* The factors and findings enumerated and described herein adequately evaluate the proposed use for the purposes of this chapter.

5. §61.501 lists five standards that all conditional uses must satisfy:

- (a) *The extent, location and intensity of the use will be in substantial compliance with the Saint Paul Comprehensive Plan and any applicable subarea plans which were approved by the city council.* Subject to meeting the standards listed in §72.74, this proposed use is in

conformance with the Saint Paul Comprehensive Plan and the City's floodplain management program. Policy 5.1.3 of the river corridor chapter of the comprehensive plan supports continuation of and additions to industrial uses in the Childs Road industrial area if said additions will not have significant adverse impacts on air or water quality nor impair river valley views. The proposed additions are to an existing facility located in a large industrial area, and will not significantly alter river valley views. The proposed building is replacing an existing building that will be demolished, and will not result in air or water quality impacts.

- (b) *The use will provide adequate ingress and egress to minimize traffic congestion in the public streets.* This condition is met. The proposed facility will be served by Childs and Shop Roads. The use is not expected to generate additional traffic.
- (c) *The use will not be detrimental to the existing character of the development in the immediate neighborhood or endanger the public health, safety and general welfare.* This condition is met. The proposed facility is consistent with the existing industrial character of the immediate neighborhood.
- (d) *The use will not impede the normal and orderly development and improvement of the surrounding property for uses permitted in the district.* This condition is met. The use is industrial in nature, and will not impeded improvement of surrounding properties for allowed uses.
- (e) *The use shall, in all other respects, conform to the applicable regulations of the district in which it is located.* This condition can be met. Subject to the acceptance by the Department of Safety and Inspections of a flood response plan for the proposed building and certification of plans by a registered engineer or architect, the use conforms to all applicable regulations of the I2 general industrial district, RC2 river corridor district, and the FF flood fringe district.

J. STAFF RECOMMENDATION: Based on the above findings, staff recommends approval of the conditional use permit for construction of a building in the (FF) flood fringe on an alternative to fill subject to the following additional condition(s):

1. Site plan approval. Final plans approved by the Zoning Administrator for this use shall be in substantial compliance with the plans submitted and approved as part of this application.
2. A flood response plan including the proposed building shall be accepted by the Department of Safety and Inspections, and the applicant shall conduct operations consistent with said plan.
3. At or prior to building permit review, the plans for the proposed structure must be certified by a registered engineer or architect as consistent with the applicable requirements of §72.74 of the Saint Paul code, the Minnesota State Building Code, and FEMA Technical Bulletin 10-01..
4. After construction, the applicant shall submit to the zoning administrator the required elevation certification certifying the as-built elevation of the proposed building, and as-built plans certified by a registered professional engineer or architect as consistent with the applicable requirements of §72.74 of the Saint Paul code, the Minnesota State Building Code, and FEMA Technical Bulletin 10-01.



CONDITIONAL USE PERMIT APPLICATION

Department of Planning and Economic Development
Zoning Section
1400 City Hall Annex
25 West Fourth Street
Saint Paul, MN 55102-1634
(651) 266-6589

Zoning office use only
File #: 17-215822
Fee:
Tentative Hearing Date:

APPLICANT

Name Pat Mooney
Address 126 south 6th Street #700
City Minneapolis st. MN zip 55402 Daytime Phone 612-904-5996
Name of Owner (if different) Canadian Pacific Railway
Contact Person (if different) _____ Phone _____

PROPERTY LOCATION

Address / Location 1000 Shop Road, Saint Paul MN 55106-6706
Legal Description PID: 032822320005
Current Zoning Industrial I-2
(attach additional sheet if necessary)

TYPE OF PERMIT:

Application is hereby made for a Conditional Use Permit under provisions of
Chapter 72, Section 74, Paragraph a of the Zoning Code.

SUPPORTING INFORMATION: Explain how the use will meet all of the applicable standards and conditions. If you are requesting modification of any special conditions or standards for a conditional use, explain why the modification is needed and how it meets the requirements for modification of special conditions in Section 61.502 of the Zoning Code. Attach additional sheets if necessary.

The building structure addition will be elevated on piles with surrounding foundation wall at perimeter base. Finished floor elevation will be 2' above FEMA base flood elevation with encroachment. The Structural Engineer is working on calculation to verify resistance against uplift and hydro pressures.

Required site plan is attached

Applicant's Signature

Date

11/15/17

City Agent

pdd
11-17-17



City of Saint Paul Department of Safety & Inspections, 375 Jackson Street, Suite 220, Saint Paul MN 55101

SITE PLAN REVIEW APPLICATION

Date Application Received:

Staff Use Only
SPR File #
Application Fee \$
Staff Meeting Date:
City Agent:

Project Name: Canadian Pacific Railway Radio Repair Shop	
Site Address: 1000 Shop Road - Building C	Property Identification Number: 032822320005
Project Description: Construction of an addition to a garage building for yard personnel.	

Provide (5) five Paper Copies 11x17 and an electronic PDF version (11x17 print format) of the complete Site Plan package including **certificate of survey, civil site plan, exterior architectural plan, and landscape plan.**

Project Summary

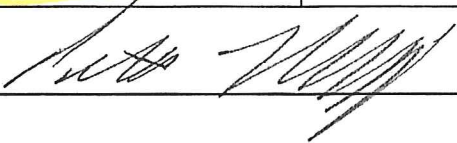
Est. Project Cost: \$ TBD <i>(exclusive of land value)</i>	Est. Construction Start April 2018	Proposed Land Use:
Parcel Area [sq. ft.] 675,180 sf	Disturbed Area [sq. ft.] 19,830 sf	<input type="checkbox"/> Residential <input type="checkbox"/> Institutional <input type="checkbox"/> Parking <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Industrial <input type="checkbox"/> Only <input type="checkbox"/> Mixed-Use <input type="checkbox"/> Other
Floor Area Ratio .0119	Building Gross Floor Area 8,092 sf	# Off-Street Parking Spaces
<input type="checkbox"/> Historic District/Property	<input checked="" type="checkbox"/> Flood Plain Property	<input type="checkbox"/> Steep Slope (>12%)

Residential Project Details

# Residential Units NA	# Affordable NA	% AMI for Affordable NA
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Applicant Information [Name, company, address, phone, e-mail]

Developer or Property Owner Pat Mooney Canadian Pacific Railway 120 South 6th Street #700 Minneapolis, MN 55402	Project Contact [PM, architect] Brian Gadiant Momentum Design Group 765 North Hampden Ave #180 St. Paul, MN 55114	Construction Contact Mike Johnson MP Johnson Construction, Inc. 50 South 6th Street #1413 Minneapolis, MN 55402
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Signature 

Date 11/16/17

Staff Use Only			
Zoning District	Overlay Zoning District	District Council	
Ward	Watershed District	MnDOT or County	
<input type="checkbox"/> Parkland Dedication	<input type="checkbox"/> TDMP	<input type="checkbox"/> CUP Required	Previous SPR



CITY OF SAINT PAUL

DEPARTMENT OF SAFETY AND INSPECTIONS
375 JACKSON STREET, SUITE 220
ST. PAUL, MN 55101

FLOODPLAIN APPLICATION

2017-01

SAINT PAUL LEGISLATIVE CODE CHAPTER 72
AND THE
NATIONAL FLOOD INSURANCE PROGRAM

APPLICANT

Name Canadian Pacific Railway
Address 120 South 6th Street #700 Minneapolis, MN 55402
Phone and E-mail 612-904-5996, PatrickL_Mooney@cpr.ca

Owner (if different)
Contact Person Pat Mooney

PROPERTY LOCATION & FLOOD INSURANCE RATE MAP (FIRM) consult FEMA Map Service Center at https://msc.fema.gov

Address / Location
Special Flood Hazard Area
Other Flood Area
FIRM No. 27123C 0108G Effective Date 06/04/10
Base Flood Elevation (BFE) 706.8 ft. (NGVD)
Regulatory Flood Protection Elevation (RFPE) 708.8 ft. (NGVD)
Floodplain Management Overlay District (Zone A or AE only)
Historic Structure? Yes No

PROPOSED ACTIVITY

Land Use: Residential, Comm/Industrial, Mixed, Other
Structural Development: New structure, Addition/Alteration*, Rehabilitation/Repair*, Demolition
Est. Market Value of Structure: \$ TBD
Other Development: Grading and/or paving, Drainage improvement, Linear construction, Watercourse alteration

REQUIRED FLOOD PROOFING

(Applicant to complete before or with building permit app)

Is structure elevated on fill? Yes No
If no, what is alternative elevation method proposed?
Is any area of the structure below the RFPE? Yes No
Structural flood proofing method: Dry, Wet, Other
A registered architect or professional engineer must submit the form below as part of a building permit application.

SUPPLEMENTAL REVIEWS

(Answer in consultation with city staff as needed)
Is a Conditional Use Permit required? (Dept. of PED)
Is a No-Rise Certificate required? (projects in FW District)
Is a levee permit required? (Dept. of Public Works)
Provide a completed MT-1 Form if applicant is requesting from DHS-FEMA a Letter of Map Revision Based on Fill (LOMR-F), Conditional LOMR-F, or Letter of Map Amendment (FW District).

ACTION/DETERMINATION

The proposed development is in conformance with applicable floodplain standards.
Application is approved conditioned on receiving as-built elevation certifications.
The proposed development is not in conformance with applicable floodplain standards (explanation attached).
Application is denied.

Community official responsible for floodplain management
Name Signature
Title Date

FLOODPROOFING CERTIFICATE FOR NON-RESIDENTIAL STRUCTURES (Continued)

The floodproofing of non-residential buildings may be permitted as an alternative to elevating to or above the Base Flood Elevation; however, a floodproofing design certification is required. This form is to be used for that certification. Floodproofing of a residential building does not alter a community's floodplain management elevation requirements or affect the insurance rating unless the community has been issued an exception by FEMA to allow floodproofed residential basements. The permitting of a floodproofed residential basement requires a separate certification specifying that the design complies with the local floodplain management ordinance.

BUILDING OWNER'S NAME Canadian Pacific Railway	FOR INSURANCE COMPANY USE POLICY NUMBER COMPANY NAIC NUMBER	
STREET ADDRESS (Including Apt., Unit, Suite, and/or Bldg. Number) OR P.O. ROUTE AND BOX NUMBER 1000 Shop Road, Saint Paul MN 55106-6706		
OTHER DESCRIPTION (Lot and Block Numbers, etc.) PID: 032822320005		
CITY St. Paul	STATE MN	Zip Code 55106-6706

SECTION I – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

Provide the following from the proper FIRM:

COMMUNITY NUMBER	PANEL NUMBER	SUFFIX	DATE OF FIRM INDEX	FIRM ZONE	BASE FLOOD ELEVATION (in AO Zones, Use Depth)
	27123	C0108G	6/4/10	AE	706.8

Indicate elevation datum used for Base Flood Elevation shown above: NGVD 1929 NAVD 1988 Other/Source: _____

SECTION II – FLOODPROOFED ELEVATION CERTIFICATION (By a Registered Professional Land Surveyor, Engineer, or Architect)

All elevations must be based on finished construction.

Floodproofing Elevation Information:

Building is floodproofed to an elevation of 708 . 8 feet (In Puerto Rico only: _____ . _____ meters).

NGVD 1929 NAVD 1988 Other/Source: _____

(Elevation datum used must be the same as that used for the Base Flood Elevation.)

Height of floodproofing on the building above the lowest adjacent grade is _____ feet (In Puerto Rico only: _____ meters).

For Unnumbered A Zones Only:

Highest adjacent (finished) grade next to the building (HAG) _____ . _____ feet (In Puerto Rico only: _____ . _____ meters).

NGVD 1929 NAVD 1988 Other/Source: _____

(NOTE: For insurance rating purposes, the building's floodproofed design elevation must be at least 1 foot above the Base Flood Elevation to receive rating credit. If the building is floodproofed only to the Base Flood Elevation, then the building's insurance rating will result in a higher premium. See the Instructions section for information on documentation that must accompany this certificate if being submitted for flood insurance rating purposes.)

FLOODPROOFING CERTIFICATE FOR NON-RESIDENTIAL STRUCTURES (Continued)

1000 Shop Road, Saint Paul MN 55106-6706

St. Paul

MN

55106-6706

Non-Residential Floodproofed Elevation Information Certification:

Section II certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information

I certify that the information in Section II on this Certificate represents a true and accurate interpretation and determination by the undersigned using the available information and data. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

CERTIFIER'S NAME	LICENSE NUMBER (or Affix Seal) 52306			PLACE SEAL HERE
TITLE	COMPANY NAME			
ADDRESS	CITY	STATE Minnesota	ZIP CODE	
SIGNATURE	DATE	PHONE		

SECTION III – FLOODPROOFED CERTIFICATION (By a Registered Professional Engineer or Architect)

Non-Residential Floodproofed Construction Certification:

I certify the structure, based upon development and/or review of the design, specifications, as-built drawings for construction and physical inspection, has been designed and constructed in accordance with the accepted standards of practice (ASCE 24-05, ASCE 24-14 or their equivalent) and any alterations also meet those standards and the following provisions.

The structure, together with attendant utilities and sanitary facilities is watertight to the floodproofed design elevation indicated above, is substantially impermeable to the passage of water, and shall perform in accordance with the 44 Code of Federal Regulations (44 CFR 60.3(c)(3)).

All structural components are capable of resisting hydrostatic and hydrodynamic flood forces, including the effects of buoyancy, and anticipated debris impact forces.

I certify that the information in Section III on this certificate represents a true and accurate determination by the undersigned using the available information and data. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

CERTIFIER'S NAME Andrew Wagstrom	LICENSE NUMBER (or Affix Seal) 52306			PLACE SEAL HERE
TITLE Senior Registered Engineer	COMPANY NAME TKDA			
ADDRESS 444 Cedar Street, Suite 1500	CITY St Paul	STATE Minnesota	ZIP CODE 55101	
SIGNATURE	DATE 11/16/17	PHONE +1 (651) 292-4580		

Copy all pages of this Floodproofing Certificate and all attachments for 1) community official, 2) insurance agent/company, and 3) building owner.

St. Paul Flood Mechanical Plan

Flood Alert Level 1 – Monitoring

1. Participate in Service Area cross- functional flood planning meetings.

Flood Alert Level 2 – Warning Prediction of crest above 18.0 at Roberts St Gauge

1. Begin to store some equipment and materials in the buildings up off the floor.
2. Block up four containers & store welders in them. (Safety,Gut,QM,SI Supply)
3. Store some of the large pieces of equipment on the high ground located on the other side of the clean out track.
4. Identify and relocate selected equipment to a temporary repair point.
5. Start to divert all B/O or Scheduled units that were heading to St Paul to other locations.
6. Complete repairs on those units which can be released within the next 24 hours. (All remaining units in the shop are to be moved out to other locations depending on the work involved).
7. Request the FRA to grant permission to extend the limit of the schedule maintenance on four axle units. (See appendix for letter to FRA).
8. The St Paul GE Managers are to provide the MS NMC Planner a list of units presently at St Paul highlighting whether units are in queue, in progress (and what stage), and ready to release.
9. Units will be re-assigned to appropriate MS Facilities as follows:
 - AC units will be re-assigned to Coquitlam and Moose Jaw
 - EMD units with light scheduled or unscheduled work will be assigned to Thief River Falls ILS Facility (until maximum capacity is reached)
 - EMD units with heavy scheduled or unscheduled work will be assigned to Toronto, Alyth, Moose Jaw and Winnipeg. Consideration will also be given to Thunder Bay and St Luc for assistance.
11. The MS NMC Planner will work with the System Locomotive Manager from the Asset Optimization Group and with the various Corridor Locomotive Managers (particularly the SOO desk) to arrange for the movement of units from St Paul MS Facility to the re-assigned MS Facilities.
12. This same group will further work together to identify units already en route and re-direct same to other MS Facilities as per the above.
13. The MS NMC Planner will also look at units scheduled/planned to St Paul for the next two-week period and re-assigned same as per the aforementioned distribution.

- Grove Crane
- Mobilifts (2)
- Marklift
- Road trucks (4) (2 road, 1 chase, 1 Car Department pickup)
- Welders
- Air Compressor (in building #835)
- Samsung Bucket
- Samsung Plow Blade
- Bobcat Brush
- End Pusher
- Light Plant
- Hydraulic Jacks
- Drop Table (Remove Completely, no sand bagging or pumping is required)

Run Through 1 & 2 Track

- Condensation return pump 1 track east, remove
- 10 heaters under ramp on the south side, remove

Back Shop

- Remove battery charger/starting unit
- Remove trash compactor (Facilities)
- Remove all necessary machines in Air Brake Department
- Remove water heater and condensation pump lower level
- Remove drop table lift & drive motors (Alltech)
- Wheel truer, remove motors (dyked in 2001)
- Remove all electrical equipment from Air Brake Shop
- Dyke transformers outside of air brake shop north wall
- Move CP Production Coordinators and SI FLM to Humboldt (Facilities)

Back Shop Air Compressor Room

- Remove all motors and compressors

Training Room

- Remove video equipment and furniture (Facilities)
- Remove water heater from under sink
- Remove water heaters from training room bathrooms

Boiler Room

- Remove condensation pump from pit
- Remove boiler feed pump
- Remove water softener
- Remove water treatment pump
- Remove burner and blower motor from boiler

Mechanical Department Head Office

- Remove all computers (Facilities)
- Remove water heater in main hallway
- Remove locomotive and personal files from all offices (Facilities)

4. Put staff on furlough status.
5. The MS NMC Planner will continuously monitor the situation at St Paul MS Facility and ensure units are not assigned to same until the decision has been reached by all stakeholders to resume operations (MS, ES, and Field Ops).

Flood Alert Level 4 - Recovery

1. Call in contractors to re-install and test all equipment in and around the shop, (including turntable and drop table).
2. Perform diesel inspections to those units which were deferred during the flood.
3. Call back employees on furlough and those dispatched to other locations.
4. Have new supplies delivered to those areas which were removed prior to the flood.
5. The following positions will resume discussions and determine an appropriate assignment of units back to the St Paul MS Facility:
 - the MS NMC Planner, the System Locomotive Manager (Asset Optimization group), the Locomotive Managers (in particular the SOO desk), the St Paul MS Facility Planner, and the St Paul GE Managers.
 - Units will be re-directed appropriately, and the work load will be reviewed and properly balanced for St Paul and the other MS Facilities.

This will be particularly important when the FRA inspection waiver expires or is lifted as the yard/shop will become congested and locomotive availability will suffer.

6. Issue notice to employees regarding tetanus shots and post-flood health and safety concerns/precautionary measures.
7. Arrange for contractor and/or employees to clean /disinfect the diesel shop.
8. Re-install the air compressor for the Car Department track and for the train line as soon as the water allows.
9. Re-install the data board in the MS office.
10. Turn on the fire hydrants and use reducers.
11. Order a second Hulcher sucker truck to assist in the clean up.
12. Participate in the coordination of the contracted cleaning arrangements for all buildings so only one company is used.

REVISED 11/16/17

St. Paul Flood Mechanical Plan

Flood Alert Level 1 – Monitoring

1. Participate in Service Area cross- functional flood planning meetings.

Flood Alert Level 2 – Warning Prediction of crest above 18.0 at Roberts St Gauge

1. Begin to store some equipment and materials in the buildings up off the floor.
2. Block up four containers & store welders in them. (Safety,Gut,QM,SI Supply)
3. Store some of the large pieces of equipment on the high ground located on the other side of the clean out track.
4. Identify and relocate selected equipment to a temporary repair point.
5. Start to divert all B/O or Scheduled units that were heading to St Paul to other locations.
6. Complete repairs on those units which can be released within the next 24 hours. (All remaining units in the shop are to be moved out to other locations depending on the work involved).
7. Request the FRA to grant permission to extend the limit of the schedule maintenance on four axle units. (See appendix for letter to FRA).
8. The St Paul GE Managers are to provide the MS NMC Planner a list of units presently at St Paul highlighting whether units are in queue, in progress (and what stage), and ready to release.
9. Units will be re-assigned to appropriate MS Facilities as follows:
 - AC units will be re-assigned to Coquitlam and Moose Jaw
 - EMD units with light scheduled or unscheduled work will be assigned to Thief River Falls ILS Facility (until maximum capacity is reached)
 - EMD units with heavy scheduled or unscheduled work will be assigned to Toronto, Alyth, Moose Jaw and Winnipeg. Consideration will also be given to Thunder Bay and St Luc for assistance.
11. The MS NMC Planner will work with the System Locomotive Manager from the Asset Optimization Group and with the various Corridor Locomotive Managers (particularly the SOO desk) to arrange for the movement of units from St Paul MS Facility to the re-assigned MS Facilities.
12. This same group will further work together to identify units already en route and re-direct same to other MS Facilities as per the above.
13. The MS NMC Planner will also look at units scheduled/planned to St Paul for the next two-week period and re-assigned same as per the aforementioned distribution.

- Grove Crane
- Mobilifts (2)
- Marklift
- Road trucks (4) (2 road, 1 chase, 1 Car Department pickup)
- Welders
- Air Compressor (in building #835)
- Samsung Bucket
- Samsung Plow Blade
- Bobcat Brush
- End Pusher
- Light Plant
- Hydraulic Jacks
- Drop Table (Remove Completely, no sand bagging or pumping is required)

Run Through 1 & 2 Track

- Condensation return pump 1 track east, remove
- 10 heaters under ramp on the south side, remove

Back Shop

- Remove battery charger/starting unit
- Remove trash compactor (Facilities)
- Remove all necessary machines in Air Brake Department
- Remove water heater and condensation pump lower level
- Remove drop table lift & drive motors (Alltech)
- Wheel truer, remove motors (dyked in 2001)
- Remove all electrical equipment from Air Brake Shop
- Dyke transformers outside of air brake shop north wall
- Move CP Production Coordinators and SI FLM to Humboldt (Facilities)

Back Shop Air Compressor Room

- Remove all motors and compressors

Training Room

- Remove video equipment and furniture (Facilities)
- Remove water heater from under sink
- Remove water heaters from training room bathrooms

Boiler Room

- Remove condensation pump from pit
- Remove boiler feed pump
- Remove water softener
- Remove water treatment pump
- Remove burner and blower motor from boiler

Mechanical Department Head Office

- Remove all computers (Facilities)
- Remove water heater in main hallway
- Remove locomotive and personal files from all offices (Facilities)

4. Put staff on furlough status.
5. The MS NMC Planner will continuously monitor the situation at St Paul MS Facility and ensure units are not assigned to same until the decision has been reached by all stakeholders to resume operations (MS, ES, and Field Ops).

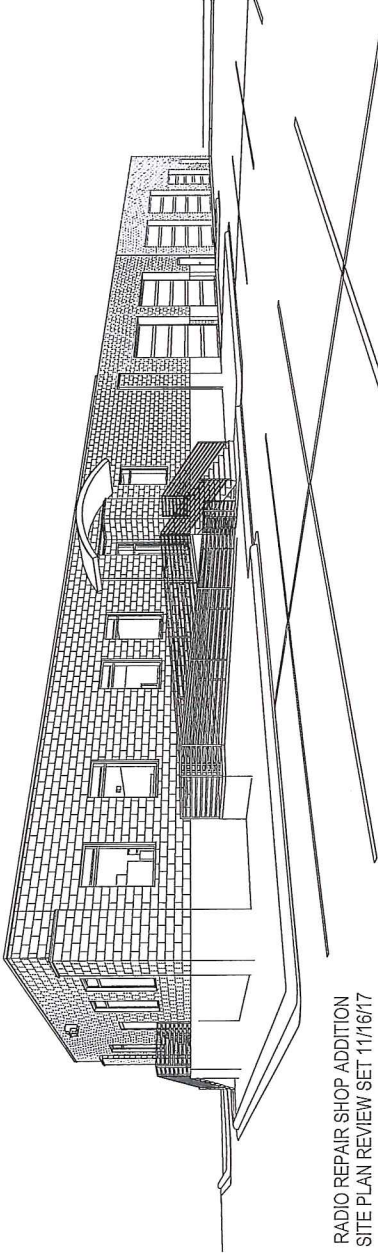
Flood Alert Level 4 - Recovery

1. Call in contractors to re-install and test all equipment in and around the shop, (including turntable and drop table).
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12. Participate in the coordination of the contracted cleaning arrangements for all buildings so only one company is used.

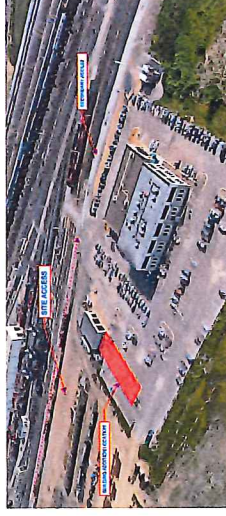
REVISED 11/16/17



RADIO REPAIR SHOP ADDITION
SITE PLAN REVIEW SET 11/16/17

SHEET	DESCRIPTION	CURRENT DATE
CS-	COVER SHEET	11/16/17
C-5	100 YEAR FLOOD PLAN	11/16/17
C-01	EXISTING PARCEL PLAN	11/16/17
C-02	STREET DIMENSIONS	11/16/17
C-03	EXISTING UTILITIES	11/16/17
C-04	DEMOLITION PLAN	11/16/17
C-05	CIVIL SITE PLAN	11/16/17
C-10	SITE UTILITIES PLAN	11/16/17
C-11	SITE DRAINAGE	11/16/17
C-20	CIVIL DETAILS	11/16/17
C-30	CIVIL DETAILS	11/16/17
C-40	EXTERIOR ELEVATIONS	11/16/17

PROJECT SITE LOCATION:



ARCHITECT:

MOMENTUM DESIGN GROUP, LLC
612-904-5596
BRIAN GADIENT
735 NORTH HAMPDEN AVENUE
SUITE 180
ST. PAUL, MINNESOTA 55114

PROPERTY OWNER:

CANADIAN PACIFIC RAILWAY
612-904-5596
PAT MOONEY
128 SOUTH 6TH STREET
SUITE 500
MINNEAPOLIS, MINNESOTA 55402

GENERAL CONTRACTOR:

TBD

CIVIL ENGINEER:

TKDA, INC

ANDREW MASTROM, P.E.
WESLEY WEGNER, P.E.
661-392-4400
644 CEDAR STREET
SUITE 1200
ST. PAUL, MINNESOTA 55101

STRUCTURAL ENGINEER:

TBD

ABBREVIATIONS:

ABV	ABOVE	FD	FLOOR DRAIN	HT	HIGH	JST	JOIST	OH	OVERHEAD
ACC	ACCESSIBLE	FTG	FOOTING	HT	HOLLOW TUBE	LAM	LAMINATE	PAR	PARTIAL
ARCH	ARCHITECT	FN	FIRE HYDRANT	HT	HOLLOW TUBE	PAR	PARALLEL	PAV	PAVEMENT
APPROX	APPROXIMATE	GA	GAGE GAUGE	HT	HOLLOW TUBE	PLAM	PLASTIC LAMINATE	PT	POINT
BM	BENCHMARK	GG	GENERAL CONTRACTOR	MFR	MANUFACTURE	PT	PRESSURE TREATED	R	RAILROAD
BR	BOTTOM	GB	GRAB BAR	MFR	MANUFACTURE	PT	PRESSURE TREATED	RF	ROUGH FINISH
BTM	BOTTOM	GG	GENERAL CONTRACTOR	MFR	MANUFACTURE	PT	PRESSURE TREATED	RF	ROUGH FINISH
BOW	BOTTOM	GG	GENERAL CONTRACTOR	MFR	MANUFACTURE	PT	PRESSURE TREATED	RF	ROUGH FINISH
CB	CORNER BOLT	HVAC	HEATING/VENTILATION/AIR CONDITIONING	MTL	METAL	Q	QUARRY	R	RADIUS
CG	CENTRELINE	HT	HIGH	MTL	METAL	Q	QUARRY	R	RADIUS
CL	CENTRELINE	HT	HIGH	MTL	METAL	Q	QUARRY	R	RADIUS
CLG	CENTRELINE	HT	HIGH	MTL	METAL	Q	QUARRY	R	RADIUS
CONC	CONCRETE	HT	HIGH	MTL	METAL	Q	QUARRY	R	RADIUS
CONC MASONRY UNIT	CONCRETE MASONRY UNIT	HT	HIGH	MTL	METAL	Q	QUARRY	R	RADIUS
CONC	CONCRETE	HT	HIGH	MTL	METAL	Q	QUARRY	R	RADIUS
CONT	CONTINUE	HT	HIGH	MTL	METAL	Q	QUARRY	R	RADIUS
CRS	COURSE	HT	HIGH	MTL	METAL	Q	QUARRY	R	RADIUS

CONTRACTOR NOTES:

INSPECTION CONTRACT: THE DEVELOPER SHALL CONTACT THE RIGHT OF WAY INSPECTOR AS SOON AS POSSIBLE TO OBTAIN THE NECESSARY PERMITS AND TO OBTAIN THE NECESSARY PERMITS FOR THE PROPOSED WORK. THE DEVELOPER SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS AND FOR OBTAINING THE NECESSARY PERMITS FOR THE PROPOSED WORK. THE DEVELOPER SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS AND FOR OBTAINING THE NECESSARY PERMITS FOR THE PROPOSED WORK. THE DEVELOPER SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS AND FOR OBTAINING THE NECESSARY PERMITS FOR THE PROPOSED WORK. THE DEVELOPER SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS AND FOR OBTAINING THE NECESSARY PERMITS FOR THE PROPOSED WORK.

ABBREVIATIONS:

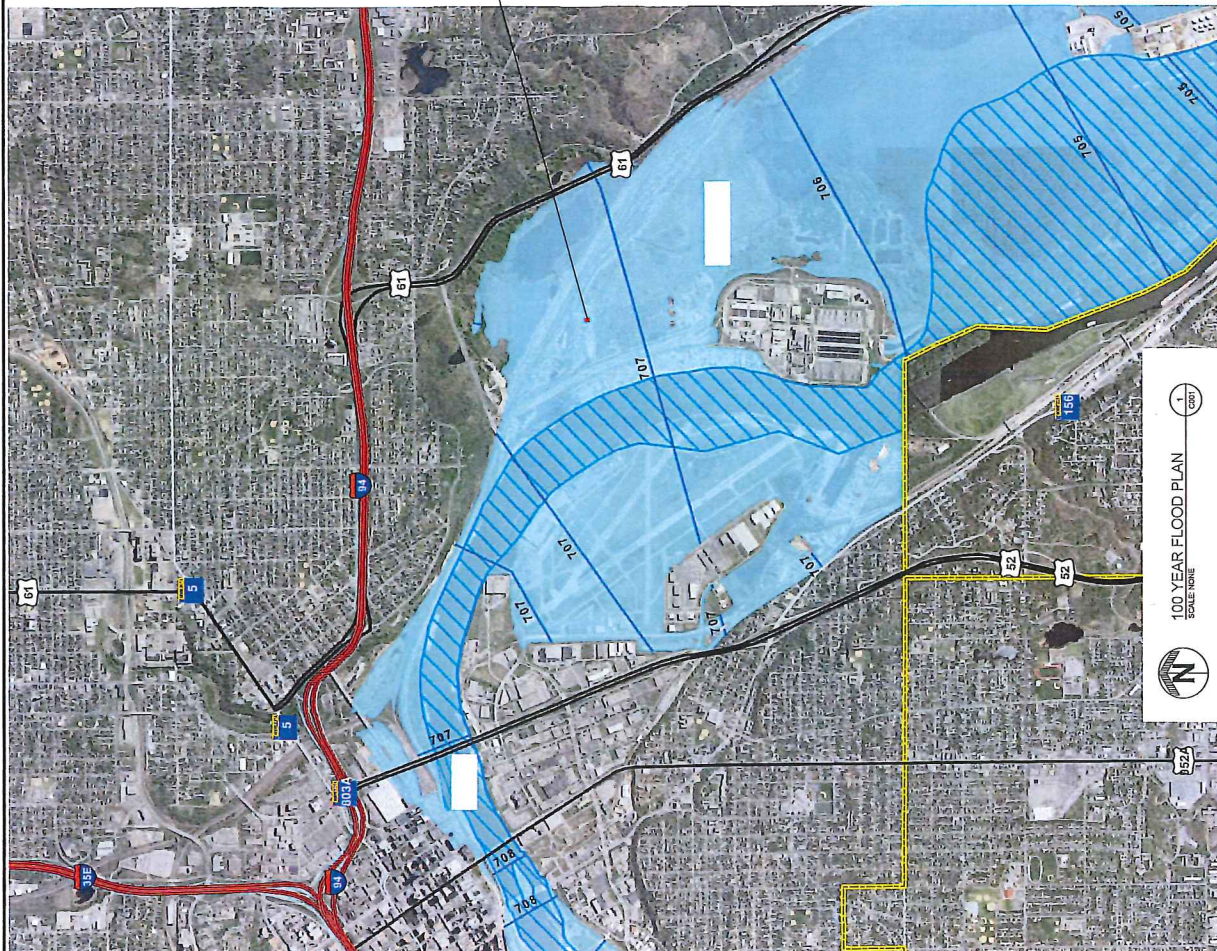
RM	ROUGH OPENING	UR	UNIFORM
RO	ROUGH OPENING	UNO	UNIFORM
RO	ROUGH OPENING	UNO	UNIFORM
RO	ROUGH OPENING	UNO	UNIFORM
RO	ROUGH OPENING	UNO	UNIFORM
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RO	ROUGH OPENING	UNO	UNIFORM
RO	ROUGH OPENING	UNO	UNIFORM



NOTE:
 THIS PLAN IS BASED ON THE DATA PROVIDED BY THE CLIENT.
 THE CLIENT IS RESPONSIBLE FOR THE ACCURACY OF THE DATA.
 THE ENGINEER HAS CONDUCTED VISUAL INSPECTIONS OF THE DATA.
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SCALE: 1" = 100' (AS SHOWN ON ORIGINAL DRAWING, IF NOT ONE INCH ON THIS PRINTING) ADJUST SCALES ACCORDINGLY.

NOT FOR CONSTRUCTION

CANADIAN PACIFIC RAILWAY

ST. PAUL YARD

100 YEAR FLOOD PLAN
 SCALE: NONE

TKQA

100 YEAR FLOOD PLAN
 SCALE: NONE

NO.	DATE	BY	DESCRIPTION OF REVISIONS

FILE NAME: _____
 PLOT DATE: _____

DRAWING NO. C001

100 YEAR FLOOD PLAN

CANADIAN PACIFIC RAILWAY

ST. PAUL YARD

100 YEAR FLOOD PLAN
 SCALE: NONE

TKQA

100 YEAR FLOOD PLAN
 SCALE: NONE

NO.	DATE	BY	DESCRIPTION OF REVISIONS

FILE NAME: _____
 PLOT DATE: _____

DRAWING NO. C001

100 YEAR FLOOD PLAN

CANADIAN PACIFIC RAILWAY

ST. PAUL YARD

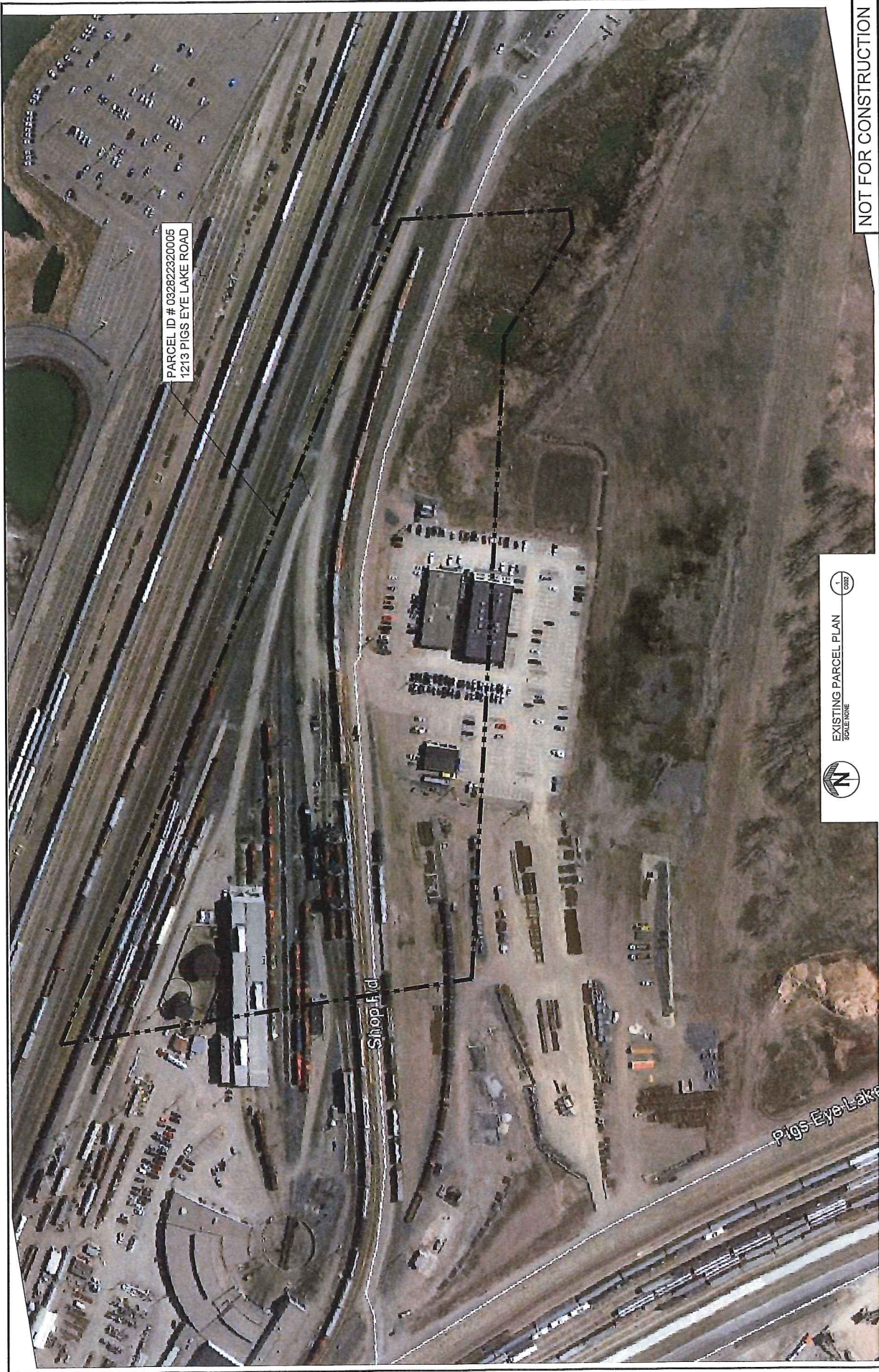
100 YEAR FLOOD PLAN
 SCALE: NONE

TKQA

100 YEAR FLOOD PLAN
 SCALE: NONE

NO.	DATE	BY	DESCRIPTION OF REVISIONS

FILE NAME: _____
 PLOT DATE: _____



NOT FOR CONSTRUCTION

DRAWING NO.
C002

EXISTING PARCEL PLAN

CANADIAN PACIFIC RAILWAY

ST. PAUL YARD

444 Cedar Street, Suite 1800
Saint Paul, MN 55101
864.4400
B&B.com

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY CLOSE SUPERVISION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF IT COMplies WITH THE LAWS OF THE STATE OF MINNESOTA.

DATE: _____
SIGNATURE: _____
PRINTED NAME: _____
LIC. NO.: _____

NO.	DATE	BY	DESCRIPTION OF REVISIONS
A	11/16/17	AW	ISSUE FOR REVIEW

TK/A
PLOT DATE:
FILENAME:


SCALE: AS SHOWN
NOT TO SCALE ON ORIGINAL DRAWING. IF NOT ONE TO ONE ON THIS DRAWING ADJUST SCALES ACCORDINGLY.

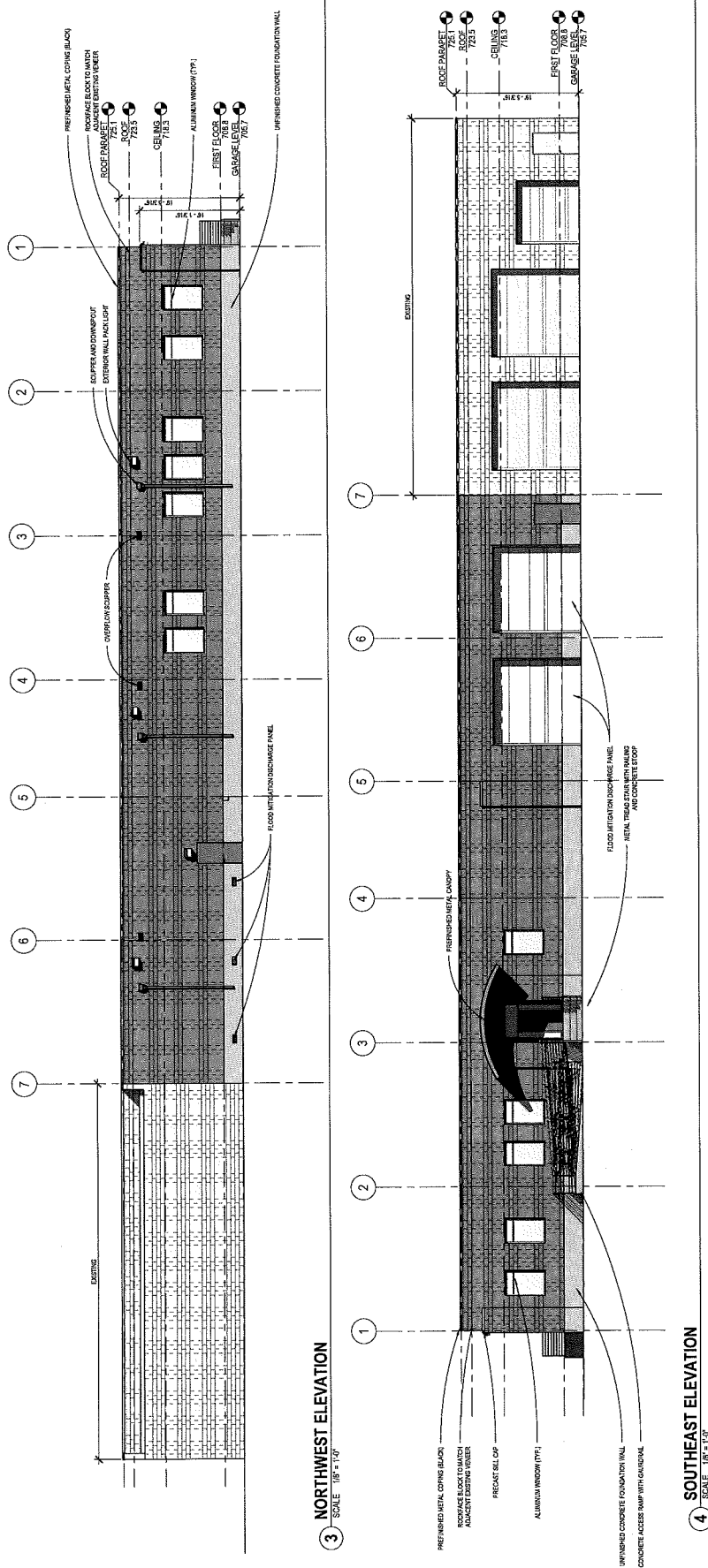
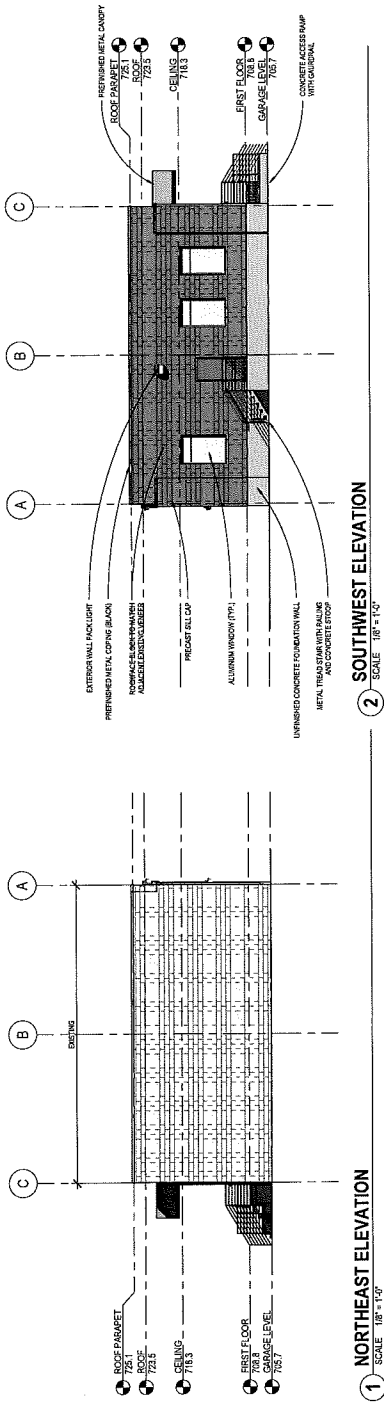


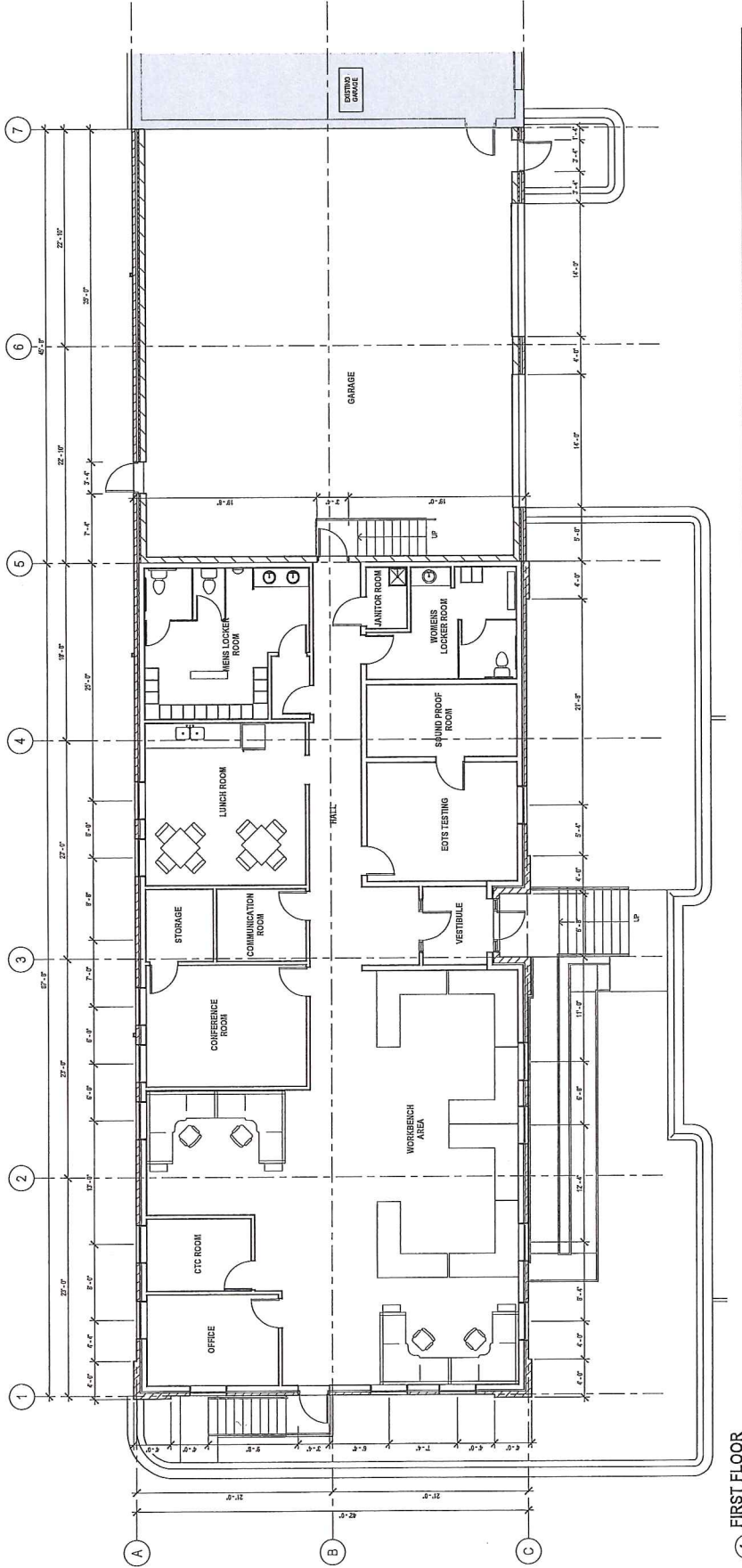
EXISTING SEWER PLAN
SCALE: NONE

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OF 1

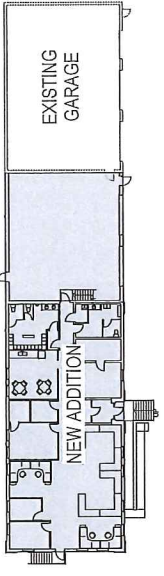
NOT FOR CONSTRUCTION

DESIGNED		I, TERESA CROTTY , STATE THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. DATE: _____ L.C. NO.: _____ SIGNATURE: _____ PRINTED NAME: _____	 TKDA	444 Oscher Street, Suite 1650 Saint Paul, MN 55101 651.232.4400 tkda.com	ST. PAUL YARD	CANADIAN PACIFIC RAILWAY	EXISTING SEWER TERMINATIONS	DRAWING NO. C003		
DATE	BY				NO.	DATE	BY	NO.	DATE	BY





1
FIRST FLOOR
SCALE: 3/16" = 1'-0"

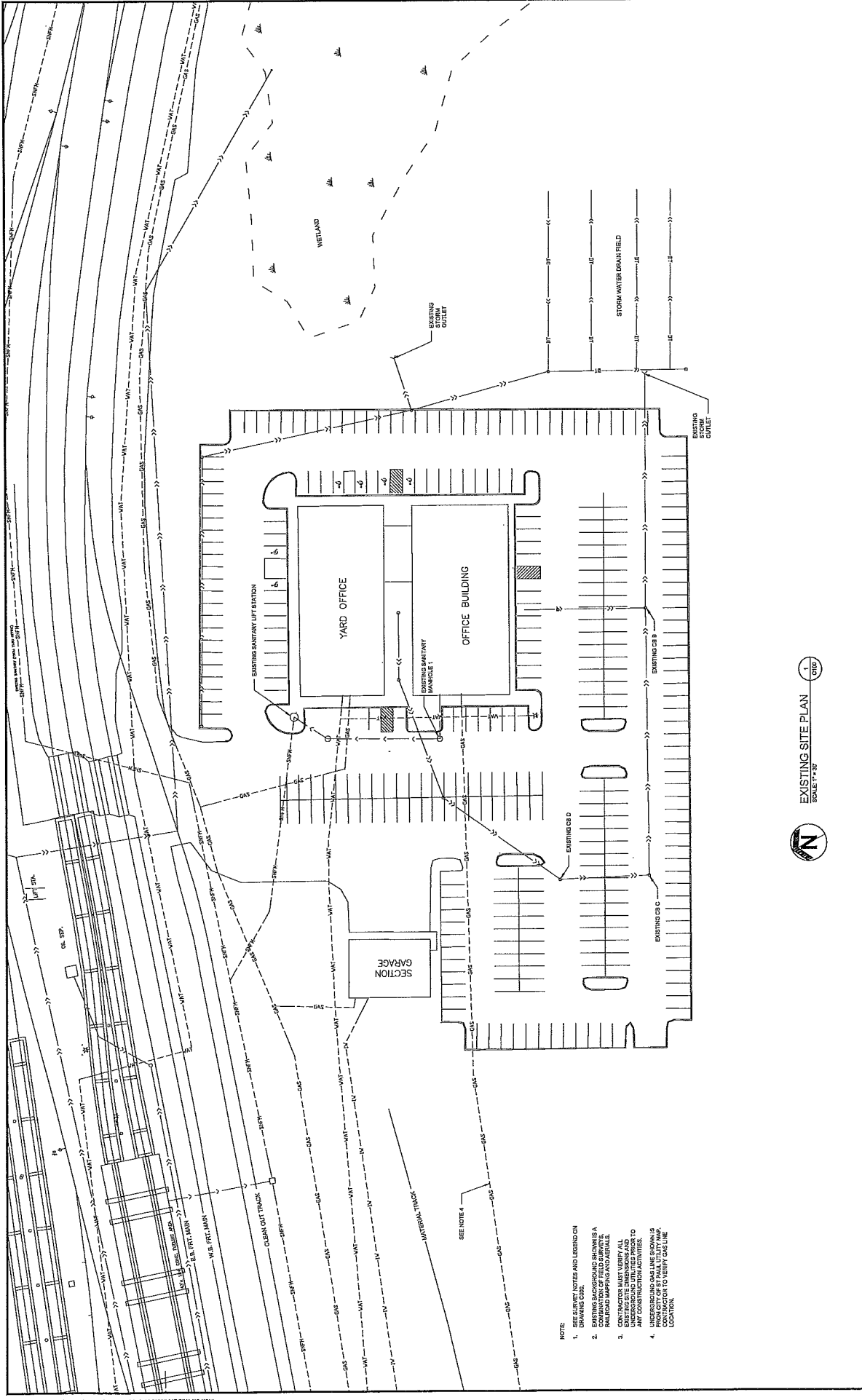


FIRST FLOOR KEY PLAN
1" = 24'

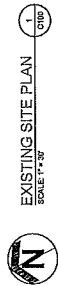
- GENERAL NOTES:**
1. ALL DOOR OPENINGS ARE LOCATED 3" OF FRAME INSE FRAISED CORNER OF A WALL (IF WITH MASONRY WALLS) UNLESS NOTED OTHERWISE.
 2. THIS PLAN COMPLIES TO ALL CANADIAN REGULATIONS. BOARDS OF COMPLYABLE FLOORING SHALL BE INSTALLED TO MATCH THE EXISTING FLOORING IN THE ADJACENT ROOMS. SEE PLAN FOR DOOR AND "1/2" AND "1/4" CONSTRUCTION. ALL DOORS TO BE INSTALLED ON THE INSIDE OF A WALL UNLESS NOTED OTHERWISE.
 3. FINISHES SHALL BE AS NOTED OR IN ACCORDANCE WITH THE ARCHITECT'S SCHEDULE TO THIS PLAN. FINISHES SHALL BE AS NOTED OR IN ACCORDANCE WITH THE ARCHITECT'S SCHEDULE TO THIS PLAN. FINISHES SHALL BE AS NOTED OR IN ACCORDANCE WITH THE ARCHITECT'S SCHEDULE TO THIS PLAN.
 4. THIS PLAN COMPLIES TO ALL REQUIREMENTS. ALL FIELD ADJUSTMENTS TO BE MADE BY THE CONTRACTOR TO MATCH THE EXISTING WORK AND TO MATCH THE FINISHES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITY.
 5. PROVIDE IN WALL BIDDING FOR ALL TOILET ACCESSORIES, MIRROR, DOWN HALL, AND REFRIGERATOR. PROVIDE IN WALL BIDDING FOR ALL TOILET ACCESSORIES, MIRROR, DOWN HALL, AND REFRIGERATOR. PROVIDE IN WALL BIDDING FOR ALL TOILET ACCESSORIES, MIRROR, DOWN HALL, AND REFRIGERATOR.
 6. THESE ARE ANY CONSTRUCTION FROM THE PLAN OR FROM PHOTOGRAPHY. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECT'S SCHEDULE TO THIS PLAN. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECT'S SCHEDULE TO THIS PLAN.
 7. PROVIDE AND INSTALL HANDED DOUBLE GLASS GLASS 4" MIN. ALUMINUM BEADS (BLACK IN COLOR) FOR ALL WINDOW OPENINGS.
 8. FURNITURE BY OWNER.

- FINISHES:**
1. ELECTRICAL, POWER AND SIGNAL SYSTEMS SHALL BE AS NOTED OR IN ACCORDANCE WITH THE ARCHITECT'S SCHEDULE TO THIS PLAN.
 2. MECHANICAL SYSTEMS SHALL BE AS NOTED OR IN ACCORDANCE WITH THE ARCHITECT'S SCHEDULE TO THIS PLAN.
 3. FINISHES SHALL BE AS NOTED OR IN ACCORDANCE WITH THE ARCHITECT'S SCHEDULE TO THIS PLAN.
 4. WORK SHALL BE AS NOTED OR IN ACCORDANCE WITH THE ARCHITECT'S SCHEDULE TO THIS PLAN.

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- NOTE
1. SEE QUANTITY NOTES AND LEGEND ON DRAWING COVER.
 2. CONTRACTOR SHALL VERIFY THE COMBINATIONS OF FIELD SURVEYS, PAULROAD MAPPING AND AERIALS.
 3. CONTRACTOR MUST VERIFY ALL UNDERGROUND UTILITIES PRIOR TO ANY CONSTRUCTION ACTIVITIES.
 4. CONTRACTOR SHALL VERIFY THE LOCATION FROM CITY OF ST. PAUL UTILITY MAP LOCATION.



EXISTING SITE PLAN
SCALE 1" = 20'

NOT FOR CONSTRUCTION

EXISTING SITE PLAN
DRAWING NO. C100

CANADIAN PACIFIC
RAILWAY

ST. PAUL
YARD

444 Cedar Street, Suite 1500
St. Paul, MN 55101
651.282.4400
ttda.com



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

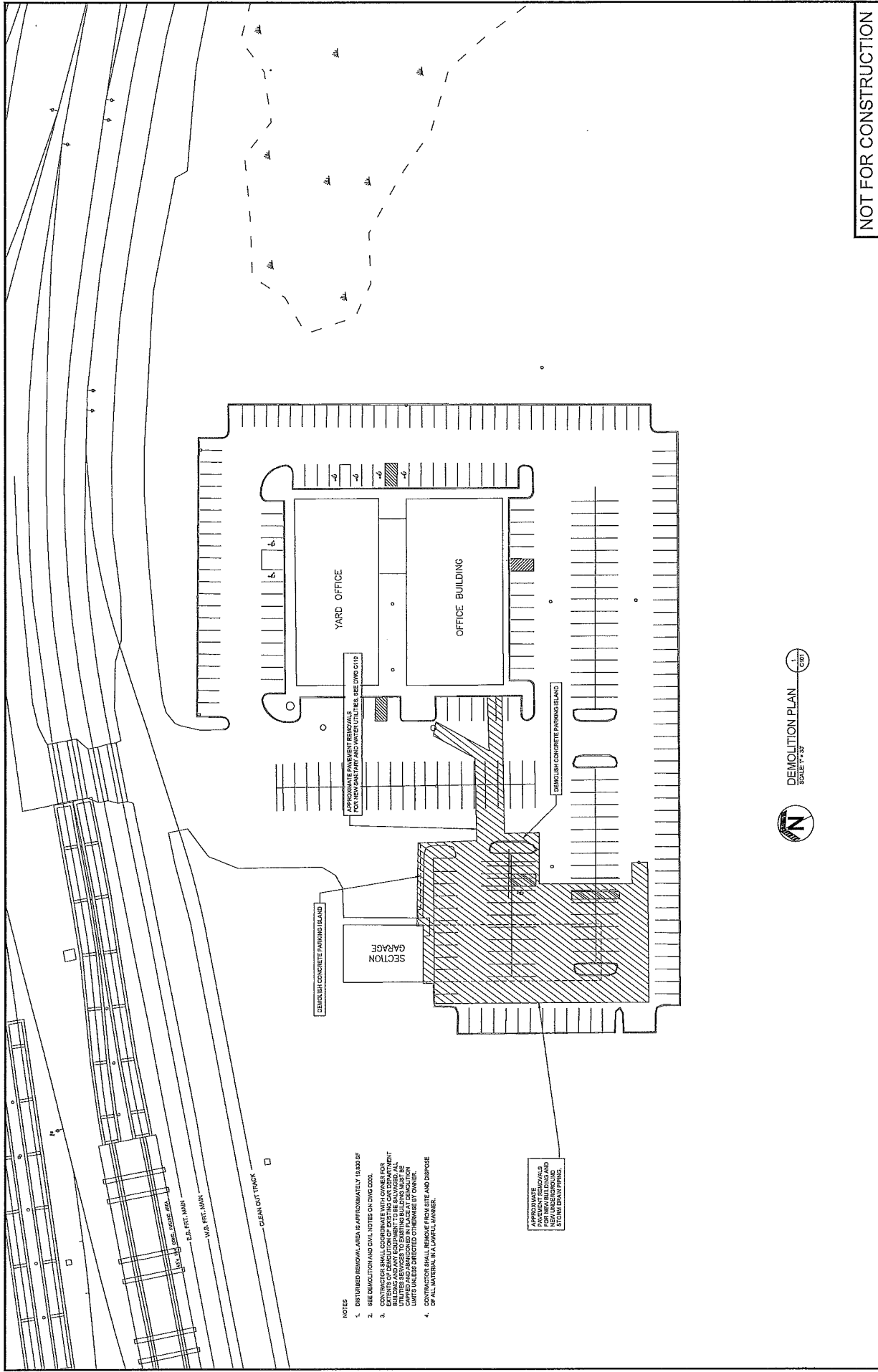
SIGNATURE: _____ DATE: _____
PRINTED NAME: _____ LIC. NO.: _____

NO.	DATE	BY	DESCRIPTION OF REVISIONS
DESIGNED			
DRAWN			
CHECKED			
DATE	11/7/07	AW	ISSUE FOR REVIEW
DATE		AW	DESCRIPTION OF REVISIONS

PLOT DATE:

PLM:ME:

BEAR ON THIS DRAWING ADJUST SCALES ACCORDINGLY.
RICH OR THORNTON ARCHITECTS, INC. DRAWING ARCHITECTS, INC. DRAWING ARCHITECTS, INC.



- NOTES
1. DISTURBED REMOVAL AREA IS APPROXIMATELY 19,800 SF
 2. SEE DEMOLITION AND CIVIL NOTES ON DWG C102.
 3. CONTRACTOR SHALL COORDINATE WITH OWNER FOR EXTENT OF DEMOLITION OF EXISTING SANITARY AND WATER UTILITIES SERVICES TO EXISTING BUILDING. ALL UTILITIES SERVICES TO EXISTING BUILDING MUST BE LIMITED UNLESS DIRECTED OTHERWISE BY OWNER.
 4. CONTRACTOR SHALL REMOVE FROM SITE AND DISPOSE OF ALL MATERIAL IN A LEVEL MANNER.

PERMANENT PAVEMENT REMOVALS FOR NEW SANITARY AND WATER UTILITIES SEE DWG C102

DEMOLISH CONCRETE PARKING ISLAND

PERMANENT PAVEMENT REMOVALS FOR NEW SANITARY AND WATER UTILITIES SEE DWG C102

DEMOLISH CONCRETE PARKING ISLAND



DEMOLITION PLAN
SCALE: 1" = 32'

1
C101

NOT FOR CONSTRUCTION

DRAWING NO.

C101

DEMOLITION PLAN

CANADIAN PACIFIC
RAILWAY

ST. PAUL
YARD

444 Cedar Street, Suite 1800
Saint Paul, MN 55101
651.292.4400
100a.com

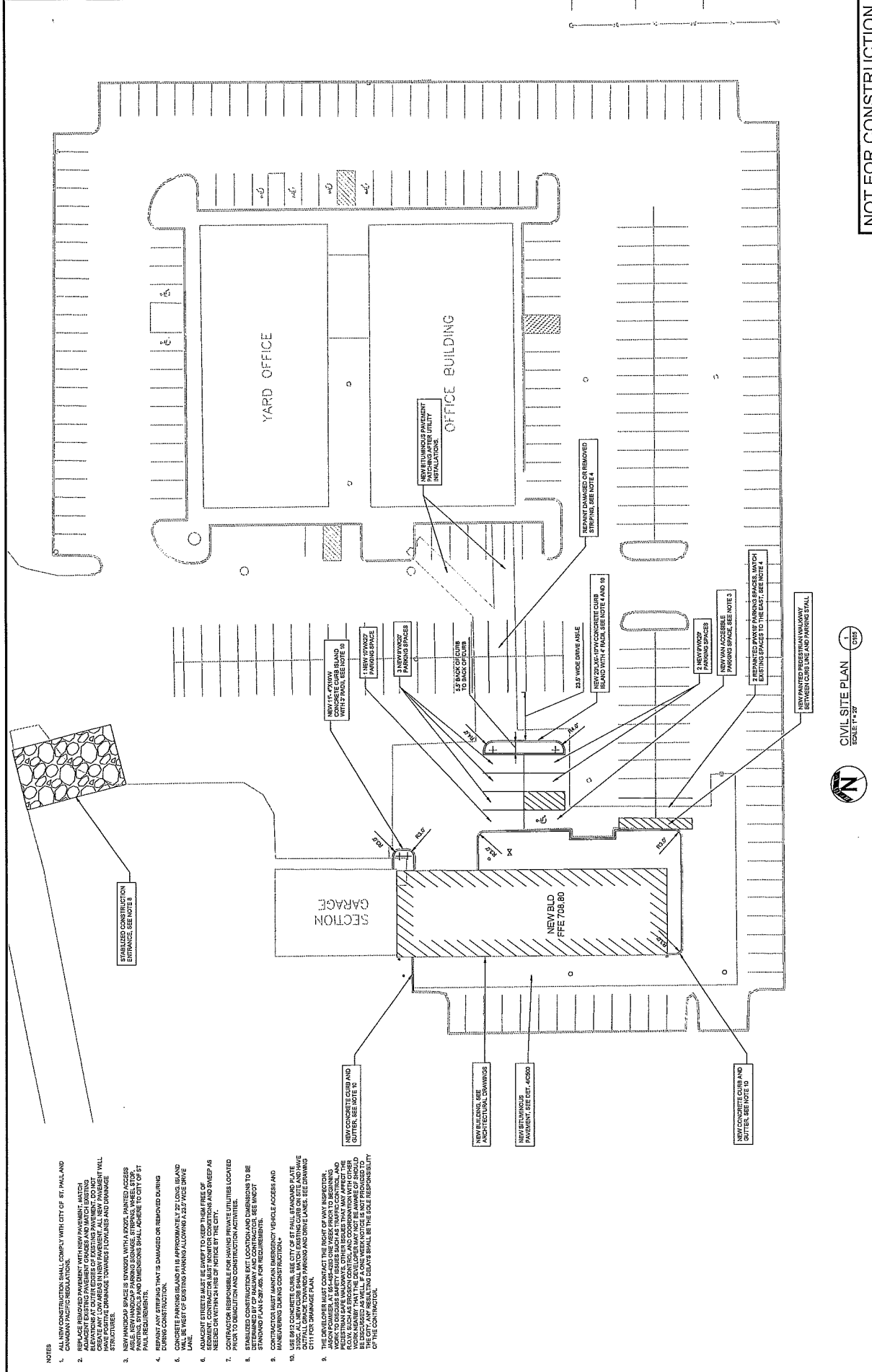


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NO.	DATE	BY	DESCRIPTION OF REVISIONS

PLANT DATE:

INCH IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE



NOT FOR CONSTRUCTION

CIVIL SITE PLAN
SCALE 1" = 30'

CANADIAN PACIFIC RAILWAY

ST. PAUL YARD

CIVIL SITE PLAN
SCALE 1" = 30'

444 Cedar Street, Suite 1500
St. Paul, MN 55101
Tel: 612.222.1100
tkda.com

TKDA

NO.	DATE	BY	DESCRIPTION OF REVISIONS

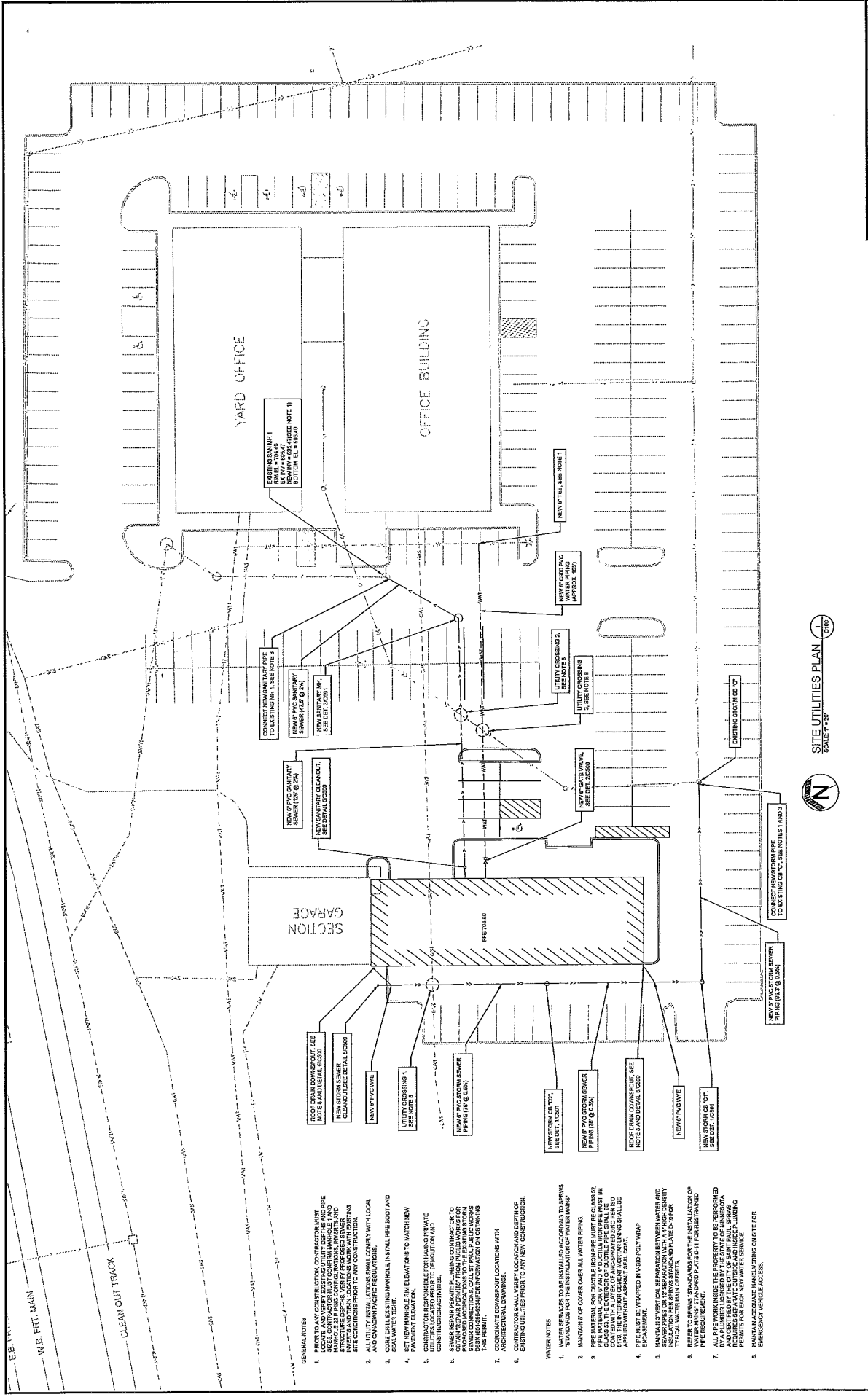
DESIGNED: _____
 DRAWN: _____
 CHECKED: _____
 APPROVED: _____

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: _____ DATE: _____
 PRINTED NAME: _____ LIC. NO.: _____

PLOT DATE: _____
 PLANNER: _____

1. ALL NEW CONSTRUCTION SHALL COMPLY WITH CITY OF ST. PAUL AND MINNESOTA CODES AND ORDINANCES.
 2. NEW ASBESTOS CEMENT PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF ST. PAUL AND MINNESOTA CODES AND ORDINANCES.
 3. NEW HANDICAP BRACES IS REQUIRED WHERE ACCESSIBLE NEW HANDICAP PARKING SPACES. BRACES SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF ST. PAUL REQUIREMENTS.
 4. REPAIR ANY STRIPING THAT IS DAMAGED OR REMOVED DURING CONSTRUCTION.
 5. CONCRETE PARKING ISLANDS SHALL BE APPROXIMATELY 2" TO 3" THICK AND SHALL BE FINISHED WITH A 2.5" WIDE DRIVE AISLE.
 6. ADJACENT STREETS MUST BE SWEEPED TO KEEP THEM FREE OF DEBRIS AND TO MAINTAIN PROPER DRAINAGE AND SWEEP AS REQUIRED BY THE CITY OF ST. PAUL.
 7. CONTRACTOR RESPONSIBLE FOR HAVING PRIVATE UTILITIES LOCATED PRIOR TO DEMOLITION AND CONSTRUCTION ACTIVITIES.
 8. STABILIZED CONSTRUCTION EXIT LOCATION AND DIMENSIONS TO BE SHOWN ON PLAN AS PER CITY OF ST. PAUL REQUIREMENTS. SEE MINN. STAT. 169.04.
 9. CONTRACTOR MUST MAINTAIN EMERGENCY VEHICLE ACCESS AND HANDICAP ACCESS DURING CONSTRUCTION.
 10. USE 8" W/2" CONCRETE CURB. SEE CITY OF ST. PAUL STANDARD PRACTICE FOR GARAGE DRIVE.
 11. CONTRACTOR SHALL MAINTAIN PROPER DRAINAGE AND SWEEP AS REQUIRED BY THE CITY OF ST. PAUL.
 12. CONTRACTOR SHALL MAINTAIN PROPER DRAINAGE AND SWEEP AS REQUIRED BY THE CITY OF ST. PAUL.
 13. CONTRACTOR SHALL MAINTAIN PROPER DRAINAGE AND SWEEP AS REQUIRED BY THE CITY OF ST. PAUL.
 14. CONTRACTOR SHALL MAINTAIN PROPER DRAINAGE AND SWEEP AS REQUIRED BY THE CITY OF ST. PAUL.
 15. CONTRACTOR SHALL MAINTAIN PROPER DRAINAGE AND SWEEP AS REQUIRED BY THE CITY OF ST. PAUL.



NOT FOR CONSTRUCTION

SITE UTILITIES PLAN

SCALE: 1"=20'

SITE UTILITIES PLAN

C110

CANADIAN PACIFIC RAILWAY

ST. PAUL YARD

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TKQA

DESIGNED	MM	1/17/17	AM	ISSUE FOR REVIEW
DRAWN	MM			
CHECKED	MM			
APP'D	MM			

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. DATE: _____ SIGNATURE: _____ PRINTED NAME: _____ LIC. NO.: _____

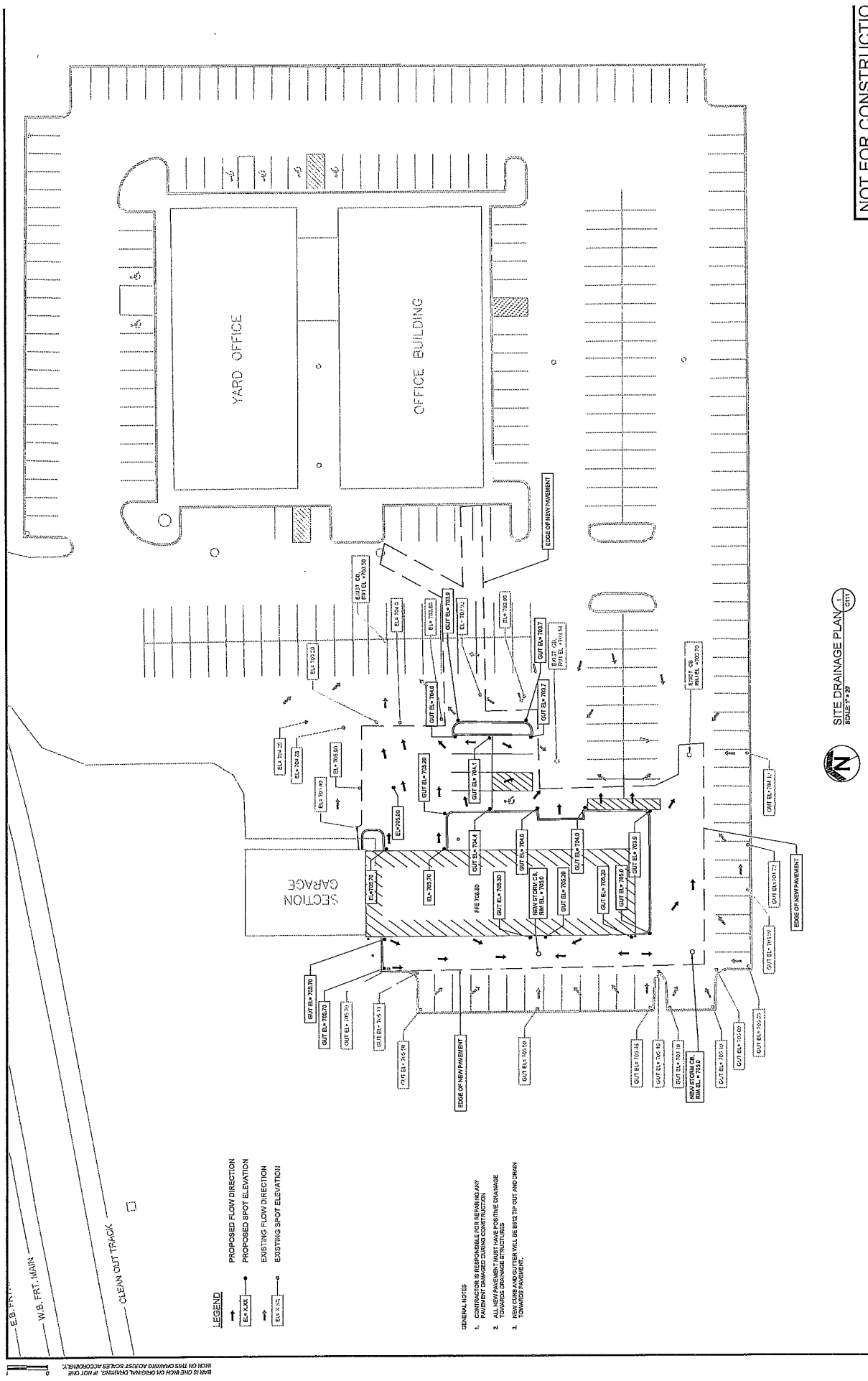
DESCRIPTION OF REVISIONS

- GENERAL NOTES**
1. PRIOR TO ANY CONSTRUCTION, CONTRACTORS MUST LOCATE AND VERIFY EXISTING UTILITY DEPICTS AND PIPE MANHOLE SIZES, SPACING, DEPTHS, AND MATERIALS. NOTIFY THE OWNER IMMEDIATELY OF ANY DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS. VERIFY ALL LOCATIONS WORK WITH EXISTING SITE CONDITIONS PRIOR TO ANY CONSTRUCTION.
 2. ALL UTILITY INSTALLATIONS SHALL COMPLY WITH LOCAL AND STATE REGULATIONS AND STANDARDS.
 3. CORE DRILL TESTING MANHOLES: INSTALL PIPE BOOT AND SEAL WATER TIGHT.
 4. SET (DOWN) MANHOLE RIM ELEVATIONS TO MATCH NEW PAVEMENT ELEVATION.
 5. UTILITIES TO BE INSTALLED PRIOR TO CONSTRUCTION AND CONSTRUCTION ACTIVITIES.
 6. SEWER REPAIR PERMIT: PLUMBING CONTRACTOR TO PROVIDE PROPOSED ACCORDANCE TO THE EXISTING STORM SEWER SYSTEM. VERIFY ALL EXISTING STORM SEWER DEPTHS, SIZES, AND MATERIALS. VERIFY ALL EXISTING STORM SEWER LOCATIONS ON GROUND.
 7. COORDINATE DOWNSPOUT LOCATIONS WITH
 8. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF EXISTING UTILITIES PRIOR TO ANY NEW CONSTRUCTION.

- WATER NOTES**
1. WATER SERVICES TO BE INSTALLED ACCORDING TO SPRING STANDARDS FOR THE INSTALLATION OF WATER MAINS.
 2. MAINTAIN 8" COVER OVER ALL WATER PIPING.
 3. PIPE MATERIAL FOR DUCTILE IRON PIPE MUST BE CLASS 52. ALL NEW WATER PIPING SHALL BE CLASS 52. THE EXTENSION OF EXISTING PIPE SHALL BE DONE WITH LAYERS OF PROTECTIVE SAND AND PERMITS FOR EACH NEW WATER SERVICE.
 4. PIPE MUST BE WRAPPED IN V-BOND POLY WRAP ENCASEMENT.
 5. MINIMUM 12" SEPARATION BETWEEN WATER AND SEWER PIPES ON 12" SEPARATION WITH A 1/2" MINIMUM SEPARATION BETWEEN WATER AND SEWER PIPES ON 12" SEPARATION WITH A 1/2" MINIMUM SEPARATION BETWEEN WATER AND SEWER PIPES ON 12" SEPARATION WITH A 1/2" MINIMUM SEPARATION.
 6. REFER TO SPRING STANDARDS FOR THE INSTALLATION OF WATER MAINS OF STANDARD PLATE D-I FOR RESTRICTION OF PIPE ENCASUREMENT.
 7. PIPE ENCASUREMENT SHALL BE PERFORMED BY A PLUMBER LICENSED BY THE STATE OF MINNESOTA. REFER TO THE STATE OF MINNESOTA PLUMBING PERMITS FOR EACH NEW WATER SERVICE.
 8. MAINTAIN ADEQUATE MANEUVERING ON SITE FOR EMERGENCY VEHICLE ACCESS.

- SEWER NOTES**
1. REFER TO SPRING STANDARDS FOR THE INSTALLATION OF SEWER MAINS.
 2. MAINTAIN 8" COVER OVER ALL SEWER PIPING.
 3. PIPE MATERIAL FOR DUCTILE IRON PIPE MUST BE CLASS 52. ALL NEW SEWER PIPING SHALL BE CLASS 52. THE EXTENSION OF EXISTING PIPE SHALL BE DONE WITH LAYERS OF PROTECTIVE SAND AND PERMITS FOR EACH NEW SEWER SERVICE.
 4. PIPE MUST BE WRAPPED IN V-BOND POLY WRAP ENCASEMENT.
 5. MINIMUM 12" SEPARATION BETWEEN WATER AND SEWER PIPES ON 12" SEPARATION WITH A 1/2" MINIMUM SEPARATION BETWEEN WATER AND SEWER PIPES ON 12" SEPARATION WITH A 1/2" MINIMUM SEPARATION.
 6. REFER TO SPRING STANDARDS FOR THE INSTALLATION OF SEWER MAINS OF STANDARD PLATE D-I FOR RESTRICTION OF PIPE ENCASUREMENT.
 7. PIPE ENCASUREMENT SHALL BE PERFORMED BY A PLUMBER LICENSED BY THE STATE OF MINNESOTA. REFER TO THE STATE OF MINNESOTA PLUMBING PERMITS FOR EACH NEW SEWER SERVICE.
 8. MAINTAIN ADEQUATE MANEUVERING ON SITE FOR EMERGENCY VEHICLE ACCESS.

- STORM NOTES**
1. REFER TO SPRING STANDARDS FOR THE INSTALLATION OF STORM MAINS.
 2. MAINTAIN 8" COVER OVER ALL STORM PIPING.
 3. PIPE MATERIAL FOR DUCTILE IRON PIPE MUST BE CLASS 52. ALL NEW STORM PIPING SHALL BE CLASS 52. THE EXTENSION OF EXISTING PIPE SHALL BE DONE WITH LAYERS OF PROTECTIVE SAND AND PERMITS FOR EACH NEW STORM SERVICE.
 4. PIPE MUST BE WRAPPED IN V-BOND POLY WRAP ENCASEMENT.
 5. MINIMUM 12" SEPARATION BETWEEN WATER AND SEWER PIPES ON 12" SEPARATION WITH A 1/2" MINIMUM SEPARATION BETWEEN WATER AND SEWER PIPES ON 12" SEPARATION WITH A 1/2" MINIMUM SEPARATION.
 6. REFER TO SPRING STANDARDS FOR THE INSTALLATION OF STORM MAINS OF STANDARD PLATE D-I FOR RESTRICTION OF PIPE ENCASUREMENT.
 7. PIPE ENCASUREMENT SHALL BE PERFORMED BY A PLUMBER LICENSED BY THE STATE OF MINNESOTA. REFER TO THE STATE OF MINNESOTA PLUMBING PERMITS FOR EACH NEW STORM SERVICE.
 8. MAINTAIN ADEQUATE MANEUVERING ON SITE FOR EMERGENCY VEHICLE ACCESS.



LEGEND

PROPOSED FLOW DIRECTION
 PROPOSED SPOT ELEVATION
 EXISTING SPOT ELEVATION
 EXISTING FLOW DIRECTION
 EXISTING SPOT ELEVATION

GENERAL NOTES

- CONTRACTOR IS RESPONSIBLE FOR REMAINING ANY PAVEMENT DAMAGED DURING CONSTRUCTION.
- ALL DRAINAGE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MNS DRAINAGE CODE AND THE MNS DRAINAGE CODE SUPPLEMENT.
- NEW CURBS AND GUTTERS SHALL BE SET TO THE OUT AND DRAIN TOWARDS PAVEMENT.

SITE DRAINAGE PLAN (CUT)

NOT FOR CONSTRUCTION

SITE DRAINAGE PLAN

CANADIAN PACIFIC RAILWAY

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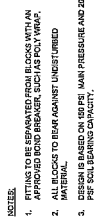
NO.	DATE	BY	DESCRIPTION OF REVISIONS
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ISSUE FOR REVIEW			
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SIGNATURE			
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PLOT DATE: _____
 FILE NAME: _____
 DRAWING NO. **C111**

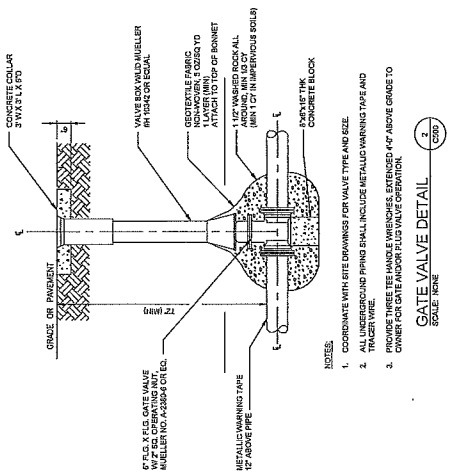
BASE IS ONE INCH ON ORIGINAL DRAWING. NOT ONE INCH ON THIS DRAWING UNLESS OTHERWISE NOTED.

MINIMUM DIMENSIONS FOR THRUST BLOCKING

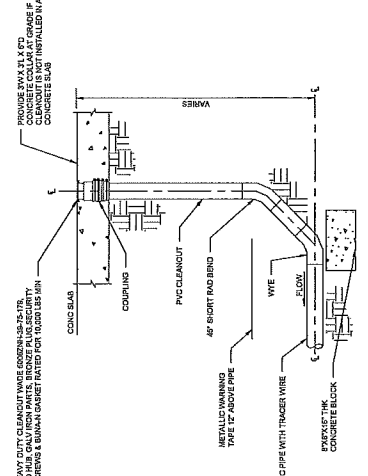
FITTING SIZE	TEES & FLUOS			90° BENDS			45° BENDS			11 1/4° BENDS		
	A	B	C	A	B	C	A	B	C	A	B	C
4"	10"	12"	15"	10"	12"	15"	10"	12"	15"	10"	12"	15"
6"	12"	15"	18"	12"	15"	18"	12"	15"	18"	12"	15"	18"
8"	15"	18"	22"	15"	18"	22"	15"	18"	22"	15"	18"	22"
10"	18"	22"	26"	18"	22"	26"	18"	22"	26"	18"	22"	26"
12"	22"	26"	30"	22"	26"	30"	22"	26"	30"	22"	26"	30"
14"	26"	30"	34"	26"	30"	34"	26"	30"	34"	26"	30"	34"
16"	30"	34"	38"	30"	34"	38"	30"	34"	38"	30"	34"	38"
18"	34"	38"	42"	34"	38"	42"	34"	38"	42"	34"	38"	42"
20"	38"	42"	46"	38"	42"	46"	38"	42"	46"	38"	42"	46"
24"	42"	46"	50"	42"	46"	50"	42"	46"	50"	42"	46"	50"
30"	46"	50"	54"	46"	50"	54"	46"	50"	54"	46"	50"	54"



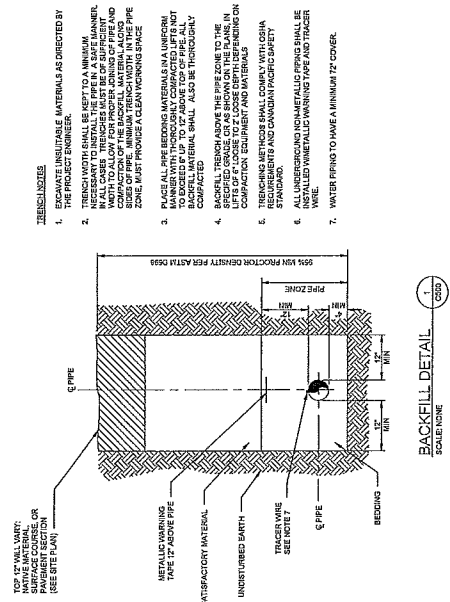
- NOTES:**
- FITTINGS TO BE SPRAWLED FROM BLOCKS WITH AN ANCHOR BOLT THROUGH THE THRUST BLOCK.
 - ALL BLOCKS TO BE AGAINST UNDISTURBED MATERIAL.
 - DESIGN IS BASED ON 80 PSI MAIN PRESSURE AND 2000 PSF SOIL BEARING CAPACITY.



- NOTES:**
- COORDINATE WITH SITE DRAWINGS FOR VALVE TYPE AND SIZE.
 - TRACER WIRE.
 - PROVIDE THREE TEE HANDLE WRENCHES, EXTENDED 4\"/>

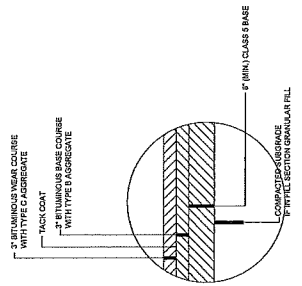


- NOTES:**
- SEE PLANS FOR PIPE ROUTING, INVERT ELEVATIONS AND CLEANOUT LOCATIONS.
 - CONTRACTOR SHALL PROVIDE ALL REQUIRED PIPE, FITTINGS AND TRANSITIONS.
 - ALL UNDERGROUND NON-METALLIC PIPING SHALL BE INSTALLED WITH METALLIC WARNING TAPE AND TRACER WIRE.

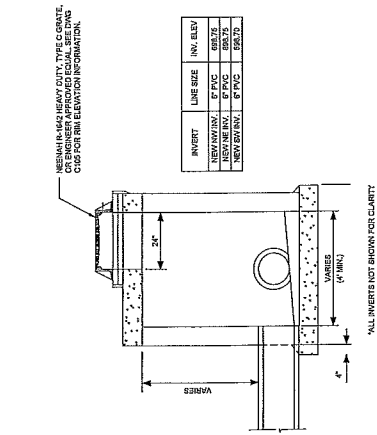


- TRENCHES:**
- REINSTATE INSURANCE MATERIALS AS DIRECTED BY THE PROJECT ENGINEER.
 - TRENCH WIDTH SHALL BE KEPT TO A MINIMUM OF 18\"/>

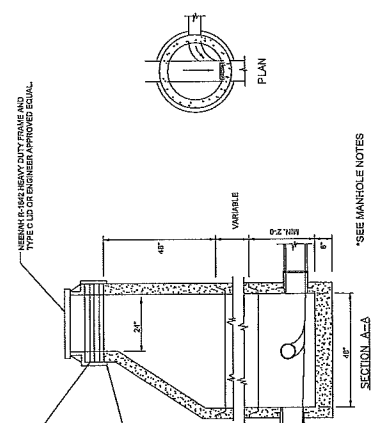
BACKFILL DETAIL
 SCALE: NONE



**TYP. 6\"/>
 SCALE: NONE**

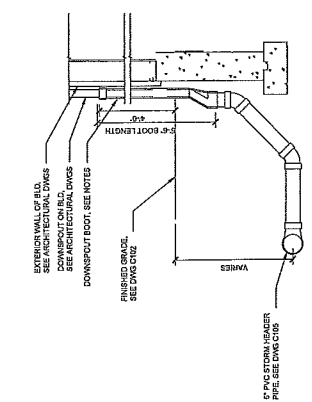


- MANHOLE NOTES**
1. PRECAST REINFORCED CONCRETE MANHOLE SECTIONS, CONE AND COVER PER ASTM C478.
 2. A 1/2" OR 1" BARRIER SECTION SHALL BE INSTALLED UNDER THE CONE WHENEVER POSSIBLE.
 3. IF THICK MANHOLE BASE MUST BE INSTALLED UNDER THE CONE WHENEVER POSSIBLE.
 4. CONCRETE ADJACENT RINGS, 2 IN. WITH MORTAR, 4 MAX. WITH LUTECAL, 1/2" MORTAR ON OUTSIDE, BETWEEN RINGS, CASTING 5/8" FINISH SMOOTH ON THE INSIDE. NO MORTAR ON INSIDE. NO WOOD SHALL BE USED FOR ADJUSTING CASTING.
 5. ALL MANHOLES SHALL HAVE A HEAVY DUTY FRAME WITH SOLID TOP OR ENGINEER APPROVED EQUAL.
 6. ALL LIDS SHALL BE SOLID, WITH NON-SLIP SURFACE AND HS-30 LOADING. LIDS TO BE LABELED APPROXIMATELY AS SANITARY, STORM, INDUSTRIAL WASTE, ETC.
 7. PROVIDE AND PROTECT LIFTING LOOPS AND/OR HOLES IN TOP SLABS FOR FUTURE REMOVAL. TOP SLAB AND PRECAST COVER SLABS SHALL BE DESIGNED TO HANDLE HS-30 LOADING.
 8. MANHOLE LIFT HOLES SHALL BE FLOURED WITH NON SHRINK EPOXY GROUT.
 9. NO STEPS.
 10. SUBMIT SHOP DRAWINGS FOR ENGINEER APPROVAL.



STORM MH - DETAIL
SCALE: NONE

STORM MH - DETAIL
SCALE: NONE



- DOWNSPOUT BOOT NOTES**
1. INSTALL DOWNSPOUT BOOTS PER MANUFACTURER'S RECOMMENDATIONS.
 2. THE INTO STORM SEWER, SEE DWG C106 FOR STORM SEWER PLAN.
 3. COORDINATE SIZE OF DOWNSPOUT BOOT WITH BUILDING MANUFACTURER'S CORRESPONDING SIZE.
 4. INSTALL MINIMELY IRON WORKING BOOT TYPE OR AS APPROVED EQUAL.

DOWNSPOUT BOOT - DETAIL
SCALE: NONE

NOT FOR CONSTRUCTION

DRAWING NO.
C501

CIVIL DETAILS - SHEET 2

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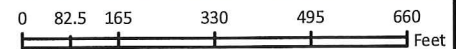
DATE: _____
LIC. NO.: _____
PRINTED NAME: _____

NO.	DATE	BY	DESCRIPTION OF REVISIONS

DESIGNED: _____
DRAWN: _____
CHECKED: _____
DATE: 11/16/17

FILE NAME:
PLOT DATE:

INCH ON THIS DRAWING ADJUST SCALES ACCORDINGLY.
IF NOT ONE



FILE NAME: Building C addition

Aerial

APPLICATION TYPE: CUP

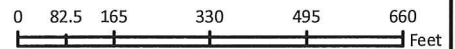
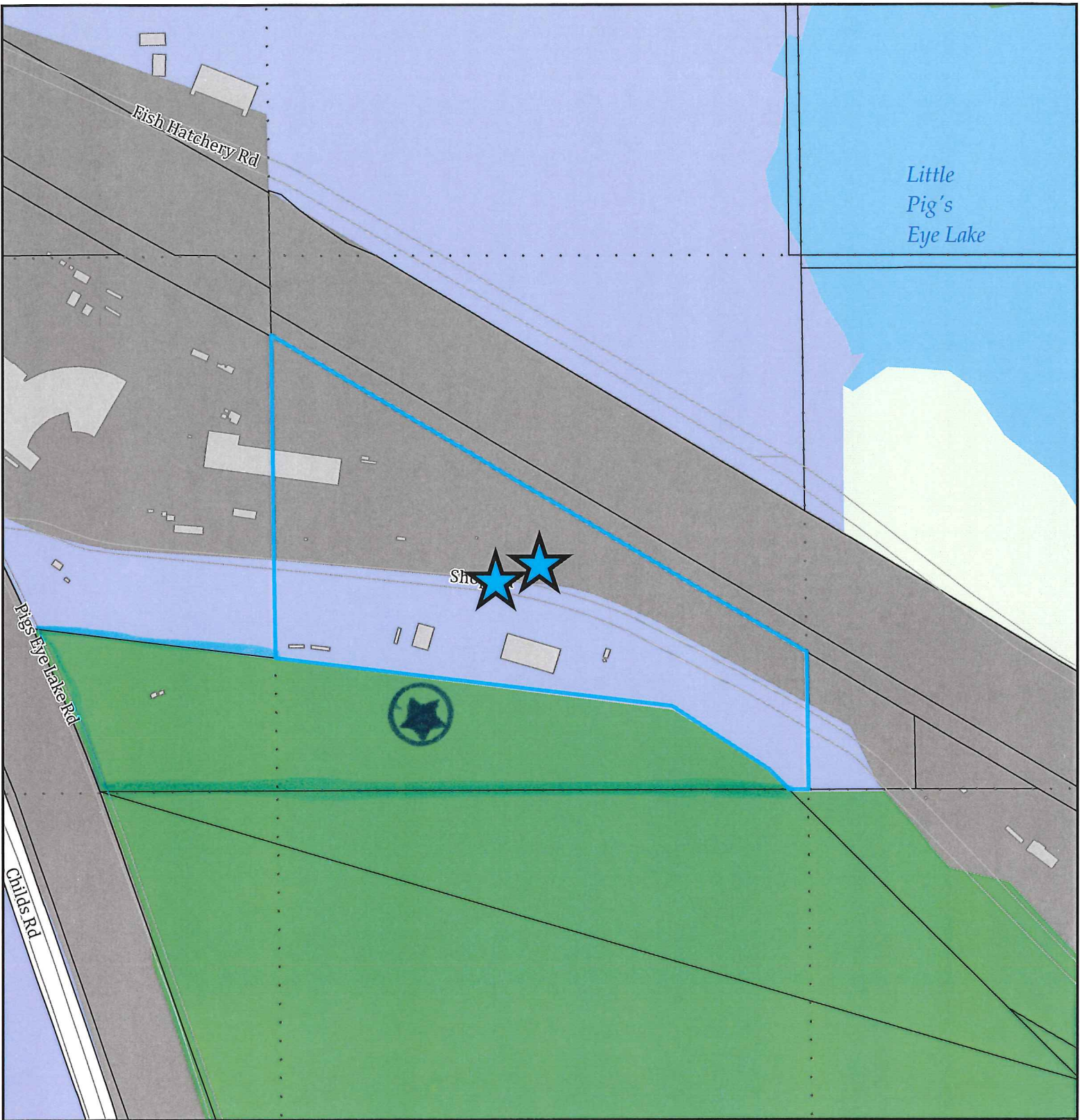
 Subject Parcels

FILE #: 17-215822 DATE: 11/21/2017

PLANNING DISTRICT: 1

ZONING PANEL: 17





FILE NAME: Building C addition

APPLICATION TYPE: CUP

FILE #: 17-215822 DATE: 11/21/2017

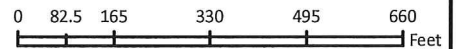
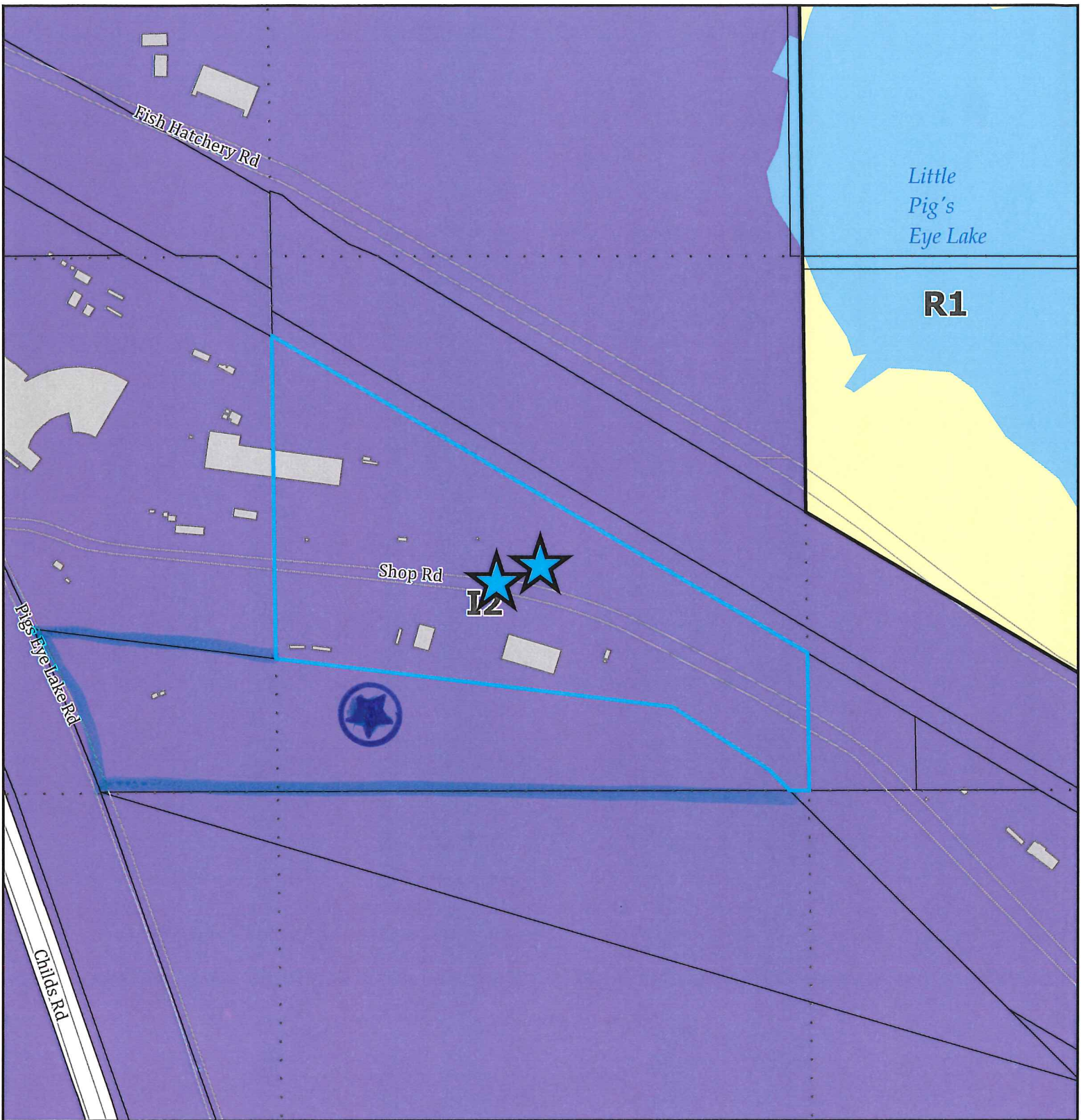
PLANNING DISTRICT: 1

ZONING PANEL: 17

Land Use

- Industrial and Utility
- Park, Recreational or Preserve
- Railway
- Undeveloped
- Water
- Subject Parcels
- Section Lines





FILE NAME: Building C addition





APPLICATION TYPE: CUP

FILE #: 17-215822 DATE: 11/21/2017

PLANNING DISTRICT: 1

ZONING PANEL: 17

Zoning

-  Subject Parcels
-  Section Lines
-  R1 One-Family
-  I2 General Industrial

