

MANKATO, MINNESOTA
ISSUED FOR: CITY SUBMITTAL



SITE LOCATION MAP

ALL PROJECT WORK SHALL CONFORM TO THE CITY OF MANKATO STANDARD SPECIFICATIONS FOR CONSTRUCTION, 2013 EDITION, AND THE CITY ENGINEERS ASSOCIATION OF MINNESOTA (CEAM) "STANDARD UTILITY SPECIFICATIONS" CURRENT EDITION, AND MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) "STANDARD SPECIFICATIONS FOR CONSTRUCTION" CURRENT EDITION IN THAT ORDER. IMMEDIATELY NOTIFY ENGINEER FOR CLARIFICATION PRIOR TO CONSTRUCTION.

PROJECT CONTACTS		
	NAME & ADDRESS	CONTACT
CIVIL ENGINEER	500 GLENWOOD AVE SUITE 100 DENVER, CO 80202	1141-500 GLENWOOD SUITE 100 DENVER, CO 80202
LANDSCAPE ARCHITECT	500 GLENWOOD AVE SUITE 100 DENVER, CO 80202	1141-500 GLENWOOD SUITE 100 DENVER, CO 80202
DRILLER/OPER	10000 POWERS CANAL LLC 2000 E. 10TH AVE DENVER, CO 80202	1141-10000 POWERS CANAL LLC 2000 E. 10TH AVE DENVER, CO 80202
PROPERTY OWNER	TRANSAM EXPRESS CAR WASH, LLC 3000 W. 10TH AVE, SUITE 200 DENVER, CO 80202	1141-3000 W. 10TH AVE SUITE 200 DENVER, CO 80202
ARCHITECT	THE HERMANN COMPANY 1000 W. 10TH AVE, SUITE 200 DENVER, CO 80202	1141-1000 W. 10TH AVE SUITE 200 DENVER, CO 80202
BAR/STATION	500 W. SYDNEY LN SUITE 100 SOUTH DENVER, CO 80202	1141-500 W. SYDNEY LN SUITE 100 SOUTH DENVER, CO 80202
GEOTECHNICAL ENGINEER	500 W. SYDNEY LN SUITE 100 SOUTH DENVER, CO 80202	1141-500 W. SYDNEY LN SUITE 100 SOUTH DENVER, CO 80202

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C018	SWPPP - ATTACHMENTS

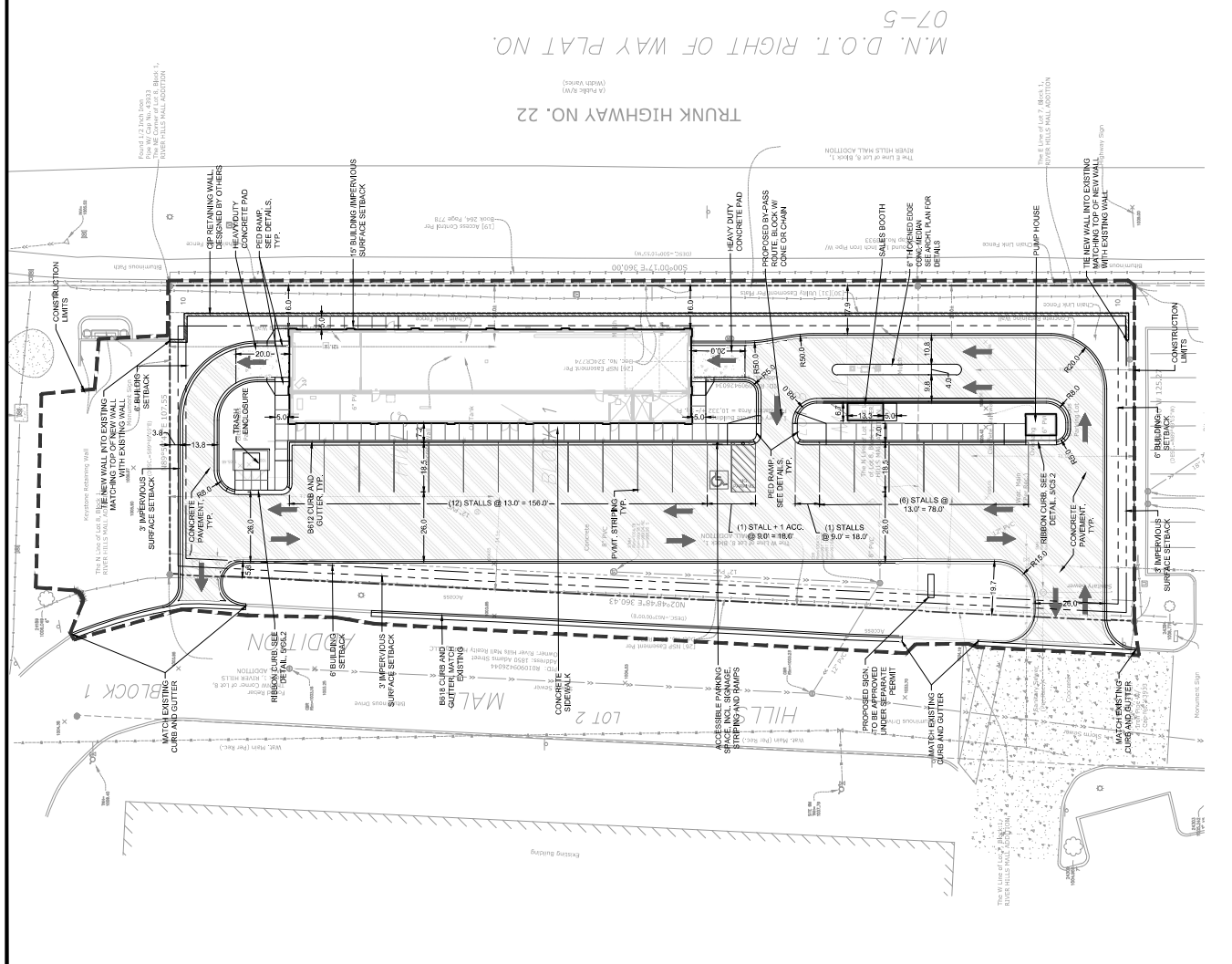
ALL EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTACT "GOPHER STATE ONE CALL" (651-454-0002 OR 800-252-1166) FOR UTILITY LOCATIONS. 48 HOURS PRIOR TO UTILITY LOCATIONS. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY UTILITIES THAT ARE DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.

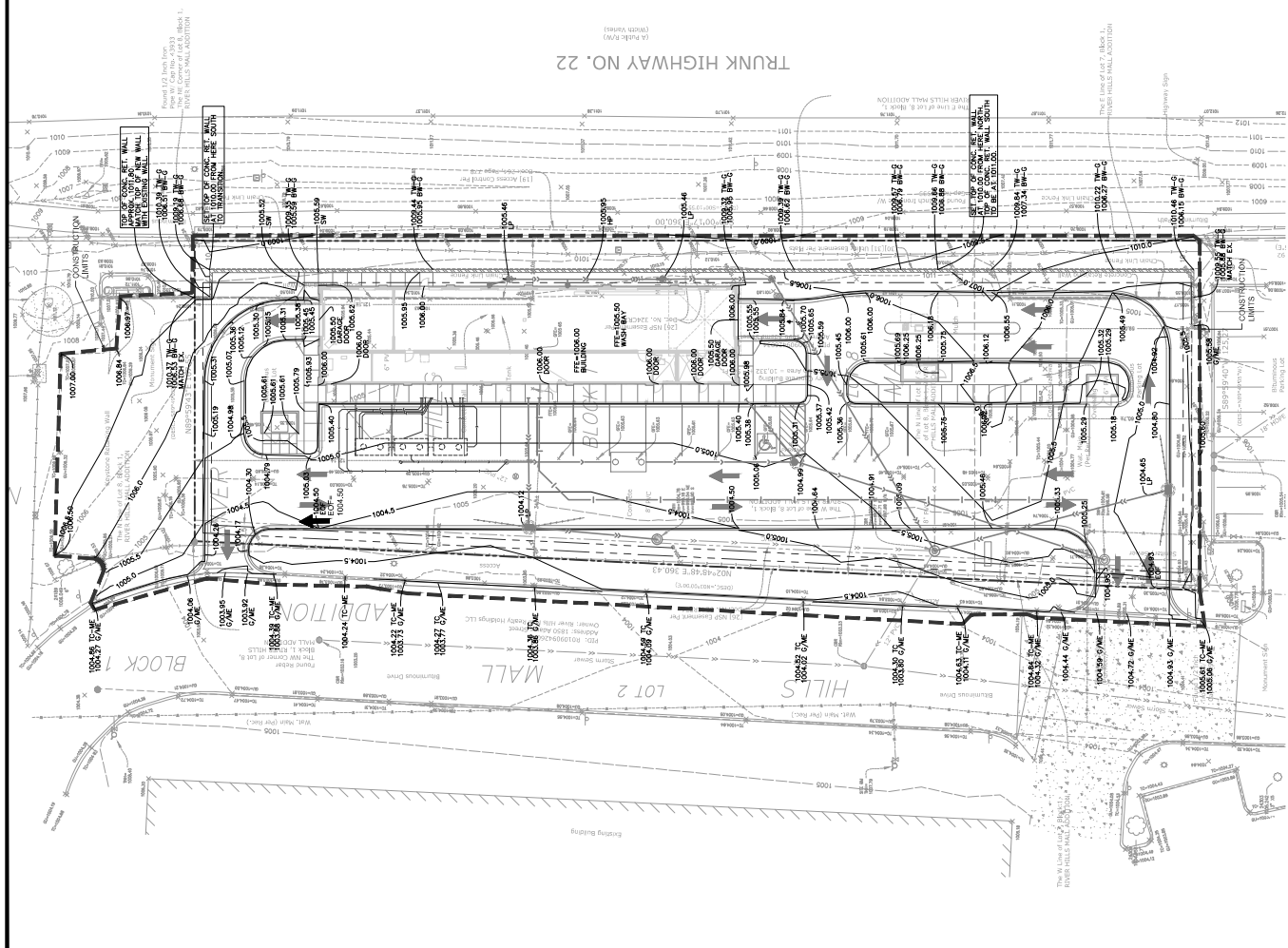


Know what's below.
Call before you dig.

- C5.3 CIVIL DETAILS
 - L1.0 LANDSCAPE PLAN
 - L1.1 LANDSCAPE PLAN NOTES & DETAILS
 - SW1.0 SWPPP - EXISTING CONDITIONS
 - SW1.1 SWPPP - PROPOSED CONDITIONS
 - SW1.2 SWPPP - DETAILS
 - SW1.3 SWPPP - NARRATIVE
 - SW1.4 SWPPP - ATTACHMENTS
 - SW1.5 SWPPP - ATTACHMENTS

PUBLISHED 2023.CM.L. SEE GROUP B





**PRELIMINARY:
NOT FOR
CONSTRUCTION**

TSUNAMI EXPRESS CAR WASH
1896 ADAMS ST., MANKATO, MN 56001
TSUNAMI EXPRESS CAR WASH, LLC.

OWNER
TSUNAMI EXPRESS CAR WASH, LLC.
1896 ADAMS ST., MANKATO, MN 56001

PROJECT
TSUNAMI EXPRESS CAR WASH
1896 ADAMS ST., MANKATO, MN 56001

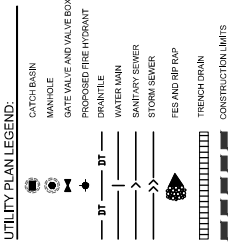
REVISION SUMMARY
DATE DESCRIPTION
1. 01/23/24

UTILITY PLAN
C4.0

- GENERAL UTILITY NOTES:**
- ALL EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY UTILITIES THAT ARE DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.
 - SEE SITE PLAN FOR HORIZONTAL DIMENSIONS AND LAYOUT.
 - CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES AND TOPOGRAPHIC FEATURES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF DISCREPANCIES OR VARIATIONS FROM THE PLANS.
 - UTILITY INSTALLATION SHALL CONFORM TO THE CURRENT EDITION OF "STANDARD SPECIFICATIONS FOR WATER MAIN AND SERVICE LINE INSTALLATION" AND "SANITARY SEWER INSTALLATION" PUBLISHED BY THE MINNESOTA DEPARTMENT OF TRANSPORTATION AND HIGHWAYS (DNR), AND SHALL CONFORM WITH THE REQUIREMENTS OF THE CITY AND THE PROJECT SPECIFICATIONS.
 - CASTINGS SHALL BE SALVAGED FROM STRUCTURE REMOVALS AND RE-USED OR PLACED AT THE DIRECTION OF THE OWNER.
 - ALL WATER PIPE SHALL BE CLASS 52 DUCTILE IRON PIPE (DIP) ANWWA C151, ASME B16.4, ANWWA C110, ANWWA C153 UNLESS OTHERWISE NOTED.
 - ALL SANITARY SEWER SHALL BE DIPS 30" VITRUM CHLORIDE (PVC) ASTM D3034 & F797, OR SCH 40 ASTM D758, 2605, ASTM F794, 1800 UNLESS OTHERWISE NOTED.
 - PIPE LENGTHS SHOWN ARE FROM CENTER TO CENTER OF STRUCTURE OR TO END OF FLARED END SECTION.
 - UTILITIES ON THE PLANS ARE SHOWN TO WITHIN 9" OF THE BUILDING FOOTPRINT. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR THE FINAL CONNECTION TO EXISTING UTILITIES.
 - CATCH BASINS AND MANHOLE IN PAVED AREAS SHALL BE SUMPED 6.15 FEET PER DETAIL S. 8M.
 - ELEVATIONS SHOWN ON THIS PLAN DO NOT REFLECT SUMPED ELEVATIONS.
 - ALL FIRE HYDRANTS SHALL BE LOCATED 5 FEET BEHIND BACK OF CURB UNLESS OTHERWISE NOTED.
 - A MINIMUM OF 8 FEET OF COVER IS REQUIRED OVER ALL WATERMAIN UNLESS OTHERWISE NOTED. EXTRA DEPTH MAY BE REQUIRED TO MAINTAIN A MINIMUM OF 18" VERTICAL SEPARATION TO SANITARY OR STORM SEWER LINES. EXTRA DEPTH WATERMAIN IS INCIDENTAL.
 - A MINIMUM OF 18 INCHES OF VERTICAL SEPARATION IS REQUIRED FOR ALL UTILITIES UNLESS OTHERWISE NOTED.
 - ALL CONNECTIONS TO EXISTING UTILITIES SHALL BE IN ACCORDANCE WITH CITY STANDARDS AND COORDINATED WITH THE CITY PRIOR TO CONSTRUCTION.
 - CONNECTIONS TO EXISTING STRUCTURES SHALL BE COORDINATED.
 - COORDINATE INSTALLATION AND SCHEDULING OF THE INSTALLATION OF UTILITIES WITH ADJACENT CONTRACTORS AND CITY STAFF.
 - CONTRACTOR SHALL MAINTAIN ACCESS TO ALL UTILITIES AND STRUCTURES. ALL UTILITIES SHALL BE MAINTAINED AS SHOWN ON THE PLANS. ALL TRAFFIC CONTROL SERVICES (MUTUAL AND THE CITY, THIS SHALL INCLUDE BUT NOT BE LIMITED TO SIGNAGE, BARRICADES, FLASHERS, AND FLAGGERS AS NEEDED. ALL PUBLIC UTILITIES SHALL BE MAINTAINED AND ACCESS SHALL BE MAINTAINED AT ALL TIMES.
 - ALL STRUCTURES, PUBLIC AND PRIVATE, SHALL BE ADJUSTED TO PROPOSED GRADES WHERE REQUIRED. THE REQUIREMENTS OF ALL OWNERS MUST BE COMPLIED WITH.
 - CONTRACTOR SHALL COORDINATE ALL WORK WITH PRIVATE UTILITY COMPANIES.
 - CONTRACTOR SHALL COORDINATE CONNECTION OF IRRIGATION SERVICE TO UTILITIES. COORDINATE THE INSTALLATION OF IRRIGATION SLEEVES NECESSARY AS TO NOT IMPACT INSTALLATION OF UTILITIES.
 - CONTRACTOR SHALL MAINTAIN ACCESS PLANS THROUGHOUT CONSTRUCTION AND SUBMIT THESE PLANS TO ENGINEER UPON COMPLETION OF WORK.
 - CONTRACTOR SHALL MAINTAIN ACCESS TO ALL UTILITIES AND STRUCTURES. ALL UTILITIES SHALL BE MAINTAINED AS SHOWN ON THE PLANS. ALL TRAFFIC CONTROL SERVICES (MUTUAL AND THE CITY, THIS SHALL INCLUDE BUT NOT BE LIMITED TO SIGNAGE, BARRICADES, FLASHERS, AND FLAGGERS AS NEEDED. ALL PUBLIC UTILITIES SHALL BE MAINTAINED AND ACCESS SHALL BE MAINTAINED AT ALL TIMES.
 - ALL PORTIONS OF THE STORM SEWER SYSTEM LOCATED WITHIN 10 FEET OF THE BUILDING OR WATER SERVICE LINE MUST BE TESTED IN ACCORDANCE WITH MIN RULES CHAPTER 4714, SECTION 109.00.
 - FOR ALL LINES LOCATED IN CLAY SOIL AREAS, DRAIN TILE MUST BE INSTALLED AT ALL LOW POINT CATCH BASINS 25' IN EACH DIRECTION. SEE PLAN AND DETAIL. INSTALL LOW POINT DRAIN TILES PER PLAN AND DETAIL. REPORT RECOMMENDATIONS AND REQUIREMENTS.

CITY OF MANKATO UTILITY NOTES:

- RESERVED FOR CITY SPECIFIC UTILITY NOTES.



CASTING SCHEDULE

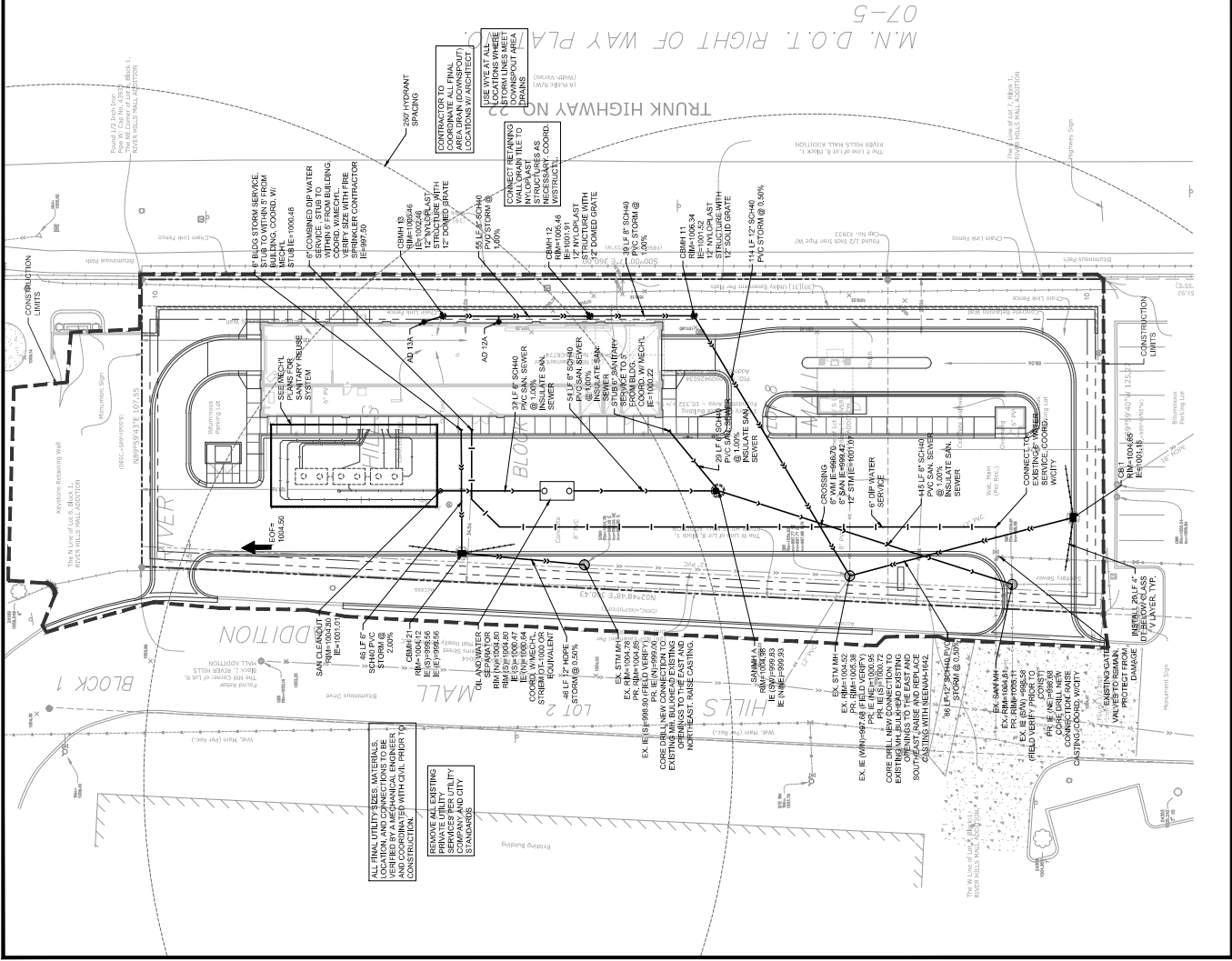
CATCH BASIN	GRATE TYPE (NEENAH)	REMARKS
1	5/8" x 2 1/2"	STORM SEWER
2	5/8" x 2 1/2"	SANITARY SEWER

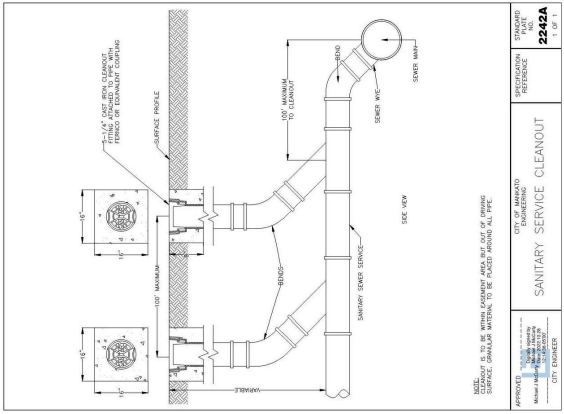
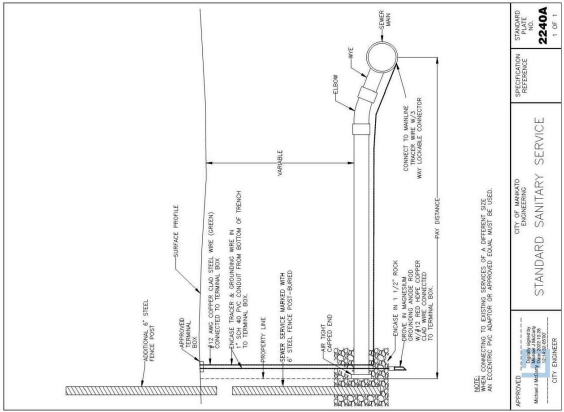
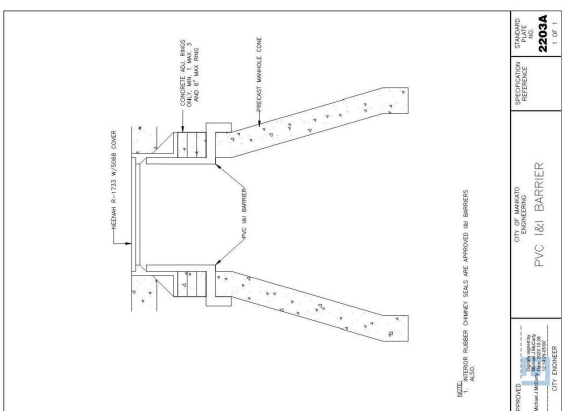
NOTE: 1. CASTINGS SHALL BE NEENAH FOUNDRY CASTINGS OR APPROVED EQUIVALENT.
2. CASTINGS SHALL BE STAMPED WITH APPROPRIATE UTILITY NAME, ELEVATION, AND DATE.

CASTING SCHEDULE

AREA DRAIN SCHEDULE (SEE DETAILS)

AREA DRAIN NUMBER	RM	INVERT	PIPE SIZE (IN)	PIPE LENGTH (FT)	PIPE SLOPE (FT/FT)	MATERIAL
AD 12A	1000.00	1002.46	1002.42	1002.23	6" PVC SCH 40	2
AD 13A	1000.00	1002.46	1002.46	1002.46	6" PVC SCH 40	7





**PRELIMINARY:
 NOT FOR
 CONSTRUCTION**

PROJECT
 TSUNAMI EXPRESS CAR WASH
 1896 ADAMS ST., MANKATO, MN 56001

OWNER
 TSUNAMI EXPRESS CAR WASH, LLC.
 4800 MEDLOCK ROAD, 4TH FLOOR, OMBESCO, MINN 55125

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

[Signature]
 DATE: 07/23/24 LICENSE NO. 45278
 PROJECT NO. 2400000

REVISIONS/SUBMITTAL SUMMARY

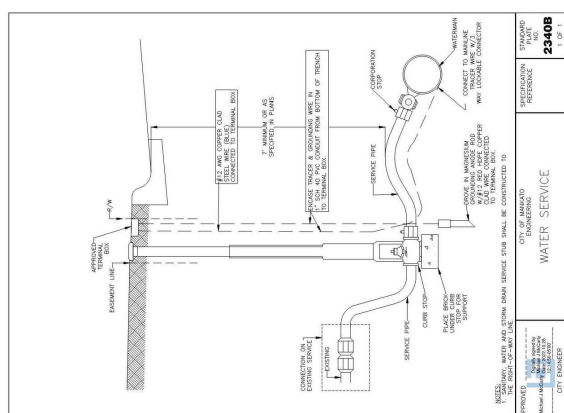
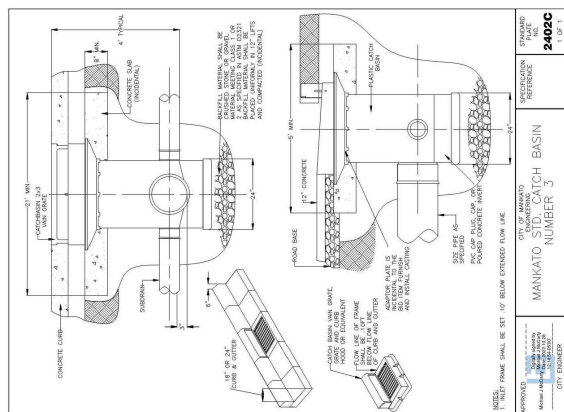
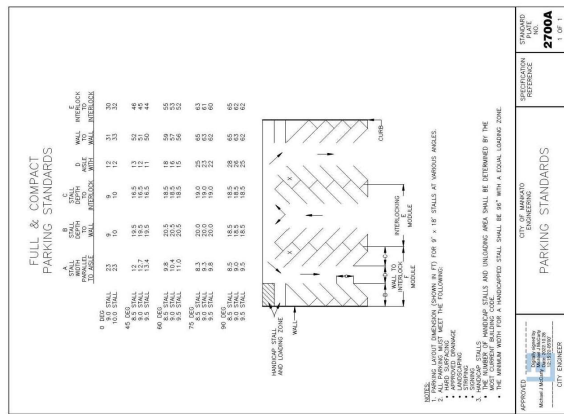
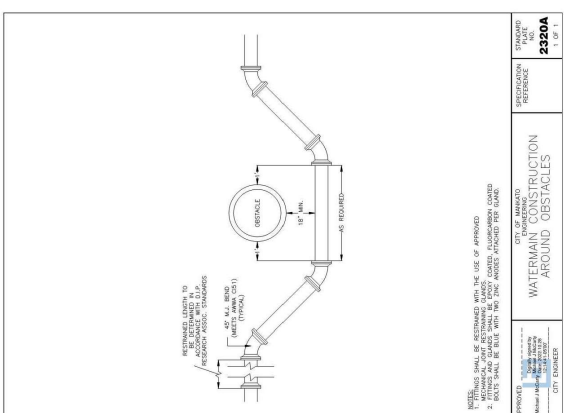
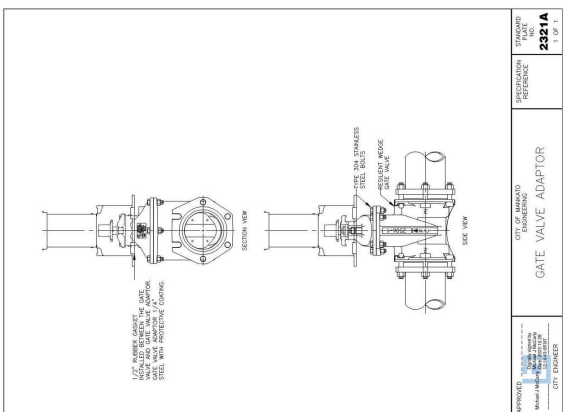
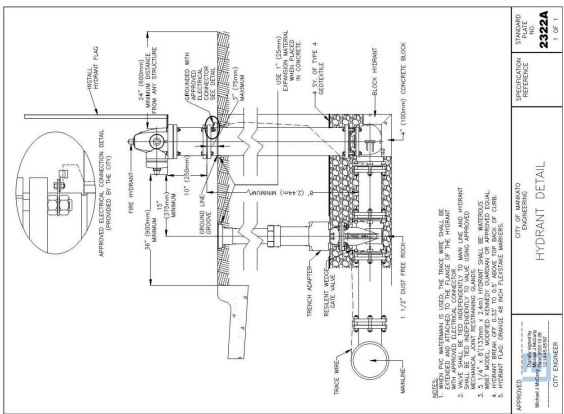
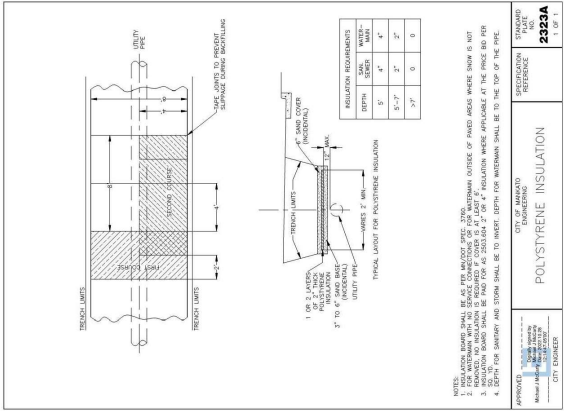
DATE	DESCRIPTION
07/23/24	ISSUED FOR PERMIT

REVISION SUMMARY

DATE	DESCRIPTION
07/23/24	ISSUED FOR PERMIT

CIVIL DETAILS

C5.1



**PRELIMINARY:
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 CONSTRUCTION**

PROJECT
 TSUNAMI EXPRESS CAR WASH
 1896 ADAMS ST., MANKATO, MN 56001
OWNER
 TSUNAMI EXPRESS CAR WASH, LLC.
 4000 MEDLOCK ROAD, WEST LAKE, OHIO 44190

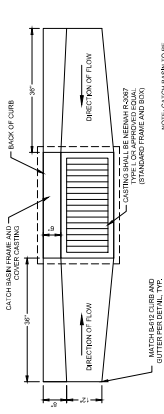
DESIGNER
 CIVIL SITE
 1000 Grand Avenue
 Suite 100, Minneapolis, MN 55415
 612.338.2200
 info@civilsite.com

RESULTS SUMMARY

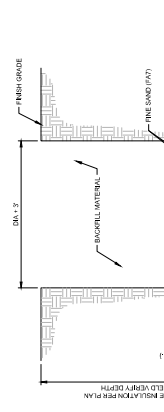
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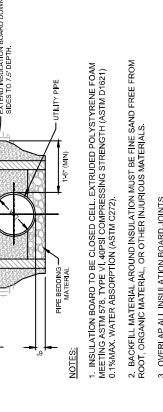
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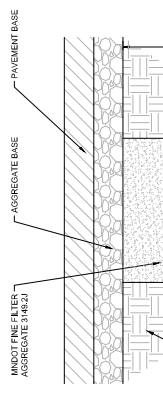
11 B-612 CURB AND GUTTER CONSTRUCTION AT CATCH BASIN
 NTS



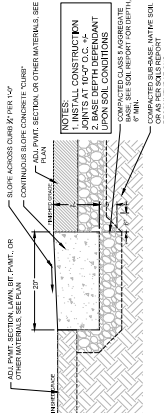
8 UTILITY PIPE INSULATION DETAIL
 NTS



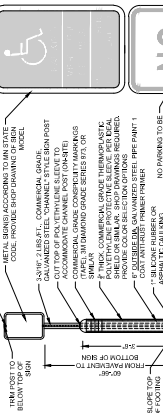
**9 4\"/>
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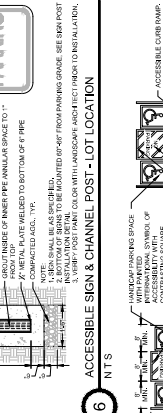
10 DOWNSPOUT TO PIPE CONNECTION
 NTS



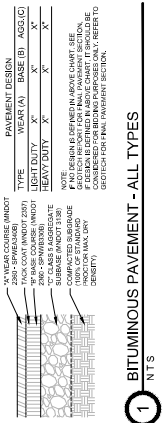
5 RIBBON CURB
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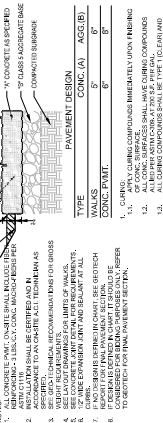
6 ACCESSIBLE SIGN & CHANNEL POST - LOT LOCATION
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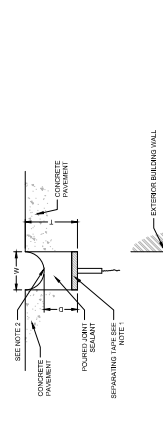
7 ACCESSIBLE PARKING PAVEMENT MARKING
 NTS



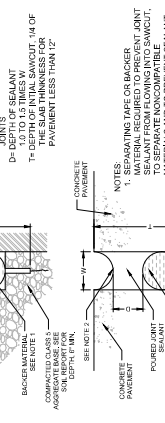
1 BITUMINOUS PAVEMENT - ALL TYPES
 NTS



2 CONCRETE PAVT./WALK/PAD
 NTS (PRIVATE PROPERTY)



3 EXPANSION JOINT SEALANT DETAILS
 NTS



4 B-612 CONCRETE CURB AND GUTTER
 NTS

