Improvement Plans
for
NEW TRANSPORTATION FACILITY
Naperville Community Unit School Dist. 203
City of Naperville
DuPage County, Illinois

PARCEL 1 RECORD DESCRIPTION:
LOT 1 IN M.O.V. OFFICE CENTER, BEING A RESUBDIVISION OF THE SOUTH 210 FEET, AS MEASURED ALONG THE EAST LINE OF THE EAST 810 FEET, AS MEASURED ALONG THE SOUTH LINE, OF PARCEL 4, IN M.O.V. SUBDIVISION, BEING A SUBDIVISION OF PARTS OF SECTIONS 11, 12, 13, AND 14, TOWNSHIP 38 NORTH, RANGE 9, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT OF SAID M.O.V. OFFICE CENTER RECORDED JANUARY 8, 1986 AS DOCUMENT R86-02286, IN DUPAGE COUNTY, ILLINOIS.

PARCEL 2 AS SURVEYED DESCRIPTION:
THE WEST 457.00 FEET OF THE SOUTH OF THE SOUTH 272.00 FEET OF THE FOLLOWING DESCRIBED PARCEL: THAT PART OF THE SOUTH HALF OF SECTION 12 AND THE NORTH HALF OF SECTION 13, TOWNSHIP 38 NORTH, RANGE 9, EAST OF THE THIRD PRINCIPAL MERIDIAN, DESCRIBED AS FOLLOWS: COMMENCING AT THE INTERSECTION OF CENTER LINE OF U.S. ROUTE 34 AND MILL STREET, AS NOW PLATTED AND RECORDED FOR A PLACE OF BEGINNING; THENCE WESTERLY ALONG CENTER LINE OF SAID U.S. ROUTE 34, A DISTANCE OF 1,500.0 FEET THENCE SOUTHERLY ALONG A STRAIGHT LINE TO A POINT IN THE CENTER LINE OF NORTH AURORA ROAD, SAID POINT BEING 1,500.0 FEET WESTERLY, AS MEASURED ON CENTER LINE OF SAID NORTH AURORA ROAD OF CENTER LINE OF MILL STREET;THENCE EASTERLY ALONG CENTER LINE OF SAID NORTH AURORA ROAD, A DISTANCE OF 1,500.0 FEET TO THE CENTER LINE OF MILL STREET; THENCE NORTHERLY ON CENTER LINE OF SAID MILL STREET TO PLACE OF BEGINNING IN DUPAGE COUNTY, ILLINOIS, EXCEPT,RIGHTS OF PUBLIC STATE OF ILLINOIS AND ADJOINING OWNERS IN AND TO THAT PART OF SECTION 12, TOWNSHIP 38 NORTH, RANGE 9, DEDICATED FOR STATE HIGHWAY ROUTE NO. 65, AS SHOWN BY DOCUMENTED DATED JULY 15, 1931 AND RECORDED FEBRUARY 15, 1932 AS DOCUMENT 322405. ALSO EXCEPT, RIGHTS OF PUBLIC STATE OF ILLINOIS AND ADJOINING OWNERS IN AND TO THAT PART OF SECTION 12 AND 13, TOWNSHIP 38 NORTH, RANGE 9, EAST OF THE THIRD PRINCIPAL MERIDIAN, DEDICATED FOR PUBLIC HIGHWAY USE FOREVER, AS SHOWN BY DOCUMENT DATED DECEMBER 20, 1945 AND RECORDED MARCH 6, 1946 AS DOCUMENT 493086.



SITE LOCATION MAP
NOT TO SCALE

INDEX OF ENGINEERING SHEETS

SHEET No.	DESCRIPTION
C0.0	COVER SHEET
C1.0	OVERALL EXISTING CONDITIONS
C1.1	DETAILED EXISTING CONDITIONS (WEST)
C1.2	DETAILED EXISTING CONDITIONS (MIDDLE)
C1.3	DETAILED EXISTING CONDITIONS (EAST)
C2.0	OVERALL DEMOLITION PLAN
C2.1	DETAILED DEMOLITION PLAN (WEST)
C2.2	DETAILED DEMOLITION PLAN (MIDDLE)
C2.3	DETAILED DEMOLITION PLAN (EAST)
C3.0	OVERALL PROPOSED SITE UTILITY PLAN
C3.1	DETAILED PROPOSED SITE UTILITY PLAN (WEST)
C3.2	DETAILED PROPOSED SITE UTILITY PLAN (MIDDLE)
C3.3	DETAILED PROPOSED SITE UTILITY PLAN (EAST)
C4.0	OVERALL PROPOSED SITE GRADING PLAN
C4.1	DETAILED PROPOSED SITE GRADING PLAN (WEST)
C4.2	DETAILED PROPOSED SITE GRADING PLAN (MIDDLE)
C4.3	DETAILED PROPOSED SITE GRADING PLAN (EAST)
C5.0	OVERALL PROPOSED SITE GEOMETRY PLAN
C5.1	DETAILED PROPOSED SITE GEOMETRY PLAN (WEST)
C5.2	DETAILED PROPOSED SITE GEOMETRY PLAN (MIDDLE)
C5.3	DETAILED PROPOSED SITE GEOMETRY PLAN (EAST)
C6.1	EROSION CONTROL PLAN (WEST)
C6.2	EROSION CONTROL PLAN (MIDDLE)
C6.3	EROSION CONTROL PLAN (EAST)
C6.4	EROSION CONTROL NOTES AND DETAILS
C7.1	GENERAL CONSTRUCTION PLAN NOTES
C7.2	CONSTRUCTION DETAILS (1 OF 4)
C7.3	CONSTRUCTION DETAILS (2 OF 4)
C7.4	CONSTRUCTION DETAILS (3 OF 4)
C7.5	CONSTRUCTION DETAILS (4 OF 4)
C8.1	STORMTRAP DETAILS (1 OF 3)
C8.2	STORMTRAP DETAILS (2 OF 3)
C8.3	STORMTRAP DETAILS (3 OF 3)

CIVIL ENGINEER:
THE WILL GROUP ENGINEERING
129 CAPISTA DRIVE
SHOREWOOD, ILLINOIS 60404
Ph. (815) 744-6600

LAND SURVEYOR:
JLH LAND SURVEYING INC.
910 GENEVA STREET
SHOREWOOD, ILLINOIS 60404
Ph. (815) 729-4000

ARCHITECT:
HEALY BENDER PATTON & BEEN
4040 HELENE AVENUE
NAPERVILLE, ILLINOIS 60564
Ph. (630) 904-4300

OWNER / DEVELOPER:
NAPERVILLE COMMUNITY UNIT SCHOOL DIST. 203
203 WEST HILLSIDE ROAD
NAPERVILLE, ILLINOIS 60540
Ph. (630) 420-6300

NOTES:
1.) PROPERTY LINE GEOMETRY AND EASEMENTS DEPICTED ON THE IMPROVEMENT PLANS DO NOT NECESSARILY REPRESENT THE FINAL GEOMETRY AND EASEMENTS SHOWN ON THE MOST RECENT PLAT OF SUBDIVISION. REFER TO THE PLAT OF SUBDIVISION FOR THIS INFORMATION.

2.) DUE TO THE UNCERTAINTY OF SEASONAL GROUND WATER TABLES AND THE GEOPHYSICAL CONDITIONS AFFECTING GROUND WATER MOVEMENT, THE WILL GROUP ENGINEERING TAKES NO RESPONSIBILITY FOR THE MANAGEMENT OF GROUND WATER ASSOCIATED WITH SUB-GRADE CONSTRUCTION. BASEMENTS OR OTHER LIKE FACILITIES CONSTRUCTED BELOW THE FINISHED SURFACE GRADE OF THE PROPERTY ARE AT THE RISK OF THE BUILDER/OWNER.

Call Before You Dig
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SITE BENCHMARK #1:
NORTHEAST BOLT ON FIRE HYDRANT LOCATED NO. THE NORTH SIDE OF WEST 5TH AVENUE AND APPROXIMATELY 318' (FEET) EAST OF THE SOUTHWEST CORNER OF THE SUBJECT PARCEL.
ELEVATION = 701.26

SITE BENCHMARK #2:
CUT SQUARE IN THE NORTHWEST CORNER OF CONCRETE PAD LOCATED ON THE SOUTH SIDE OF WEST 5TH AVENUE AND APPROXIMATELY 200' (FEET) WEST OF THE SOUTHEAST CORNER OF THE SUBJECT PARCEL.
ELEVATION = 698.48

ENGINEER: TWG TECHNOLOGIES, LLC

WE HEREBY CERTIFY THAT THESE DRAWINGS AND SPECIFICATIONS DATED MARCH 31, 2026 FOR THE CONSTRUCTION OF THE NEW TRANSPORTATION FACILITY, NAPERVILLE COMMUNITY UNIT SCHOOL DISTRICT 203 LOCATED AT 605 W 5TH AVENUE, NAPERVILLE, ILLINOIS 60563 FOR NAPERVILLE COMMUNITY UNIT SCHOOL DISTRICT 203 IN NAPERVILLE, DUPAGE COUNTY, ILLINOIS WERE PREPARED UNDER OUR SUPERVISION AND TO THE BEST OF OUR KNOWLEDGE COMPLY WITH 2024 INTERNATIONAL BUILDING CODE (LIST ADDITIONAL CODES HERE), AND 23 ILLINOIS ADMINISTRATIVE CODE 180 AS PREPARED AND PROVIDED BY THE STATE BOARD OF EDUCATION.

THE DRAWINGS FOR WHICH THIS CERTIFICATION APPLIES SHALL CONSIST OF C-1... (LIST YOUR DRAWINGS HERE)

THE SPECIFICATIONS FOR WHICH THIS CERTIFICATION APPLIES SHALL CONSIST OF SPECIFICATION SECTIONS AS LISTED FOR DIVISIONS AS LISTED IN THE PROJECT MANUAL TABLE OF CONTENTS.

THE CONTRACT DOCUMENTS ALSO INCLUDE AIA DOCUMENT A201 – GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, 2017 EDITION, AS AMENDED.

TWG TECHNOLOGIES, LLC

BY: JOSEPH P. HAMMER, PE

LICENSE NUMBER: 062-053186
LICENSE EXPIRES: NOVEMBER 30, 2027

SIGNATURE:

JOSEPH P. HAMMER 062-053186 REGISTERED PROFESSIONAL ENGINEER STATE OF ILLINOIS

PROFESSIONAL DESIGN FIRM –PROFESSIONAL ENGINEER
TWG TECHNOLOGIES, LLC
LICENSE NUMBER: 184-001251
EXPIRATION DATE: APRIL 30, 2027

NEW TRANSPORTATION FACILITY
NAPERVILLE COMMUNITY UNIT SCHOOL DISTRICT 203
NAPERVILLE, ILLINOIS

FOR

NAPERVILLE COMMUNITY UNIT SCHOOL DISTRICT 203
NAPERVILLE, DUPAGE COUNTY, ILLINOIS

PROJECT NO. 5-2325-34

ENGINEER: TWG TECHNOLOGIES, LLC

WE HEREBY CERTIFY THAT THESE DRAWINGS AND SPECIFICATIONS DATED MARCH 31, 2026 FOR THE CONSTRUCTION OF THE NEW TRANSPORTATION FACILITY, NAPERVILLE COMMUNITY UNIT SCHOOL DISTRICT 203 LOCATED AT 605 W 5th AVENUE, NAPERVILLE, ILLINOIS 60563 FOR NAPERVILLE COMMUNITY UNIT SCHOOL DISTRICT 203 IN NAPERVILLE, DUPAGE COUNTY, ILLINOIS WERE PREPARED UNDER OUR SUPERVISION AND TO THE BEST OF OUR KNOWLEDGE COMPLY WITH 2024 INTERNATIONAL BUILDING CODE, AND 23 ILLINOIS ADMINISTRATIVE CODE 180 AS PREPARED AND PROVIDED BY THE STATE BOARD OF EDUCATION.

THE DRAWINGS FOR WHICH THIS CERTIFICATION APPLIES SHALL CONSIST OF SHEETS C0.0 TO C8.3
THE SPECIFICATIONS FOR WHICH THIS CERTIFICATION APPLIES SHALL CONSIST OF SPECIFICATION SECTIONS AS LISTED FOR DIVISIONS AS LISTED IN THE PROJECT MANUAL TABLE OF CONTENTS.

THE CONTRACT DOCUMENTS ALSO INCLUDE AIA DOCUMENT A201 – GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, 2017 EDITION; AND SECTION 00 80 00 – SUPPLEMENTARY CONDITIONS.

TWG TECHNOLOGIES, LLC

BY: JOSEPH P. HAMMER, PE

LICENSE NUMBER: 062-053186
LICENSE EXPIRES: NOVEMBER 30, 2027

SIGNATURE:

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TWG TECHNOLOGIES, LLC
LICENSE NUMBER: 184-001251
EXPIRATION DATE: APRIL 30, 2027

THE WILL GROUP ENGINEERING
Main Address: 129 Capista Drive, Shorewood, IL 60404 | Phone: 815-744-6600
Invoicing: 401 S. Carlton Avenue, Wheaton, IL 60187 | www.thewillgroup.com

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PAGE: N/A	No.	DATE	DESCRIPTION	BY
DRAWN BY: R.P.	4	3-31-2026	CITY OF NAPERVILLE COMMENTS	M.C.

325-0400-C1

CITY OF NAPERVILLE STAMPS

HEALY BENDER PATTON & BEEN
ARCHITECTS
4040 Helene Avenue
Naperville, IL 60564
T 630.904.4300
www.healybender.com

NEW TRANSPORTATION FACILITY
NAPERVILLE COMMUNITY UNIT SCHOOL DISTRICT 203
NAPERVILLE, ILLINOIS
FOR
NAPERVILLE COMMUNITY UNIT SCHOOL DISTRICT 203
NAPERVILLE, DUPAGE COUNTY, ILLINOIS

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4	03-31-2026	CITY OF NAPERVILLE COMMENTS

PROJ. NO.
5-2325-34

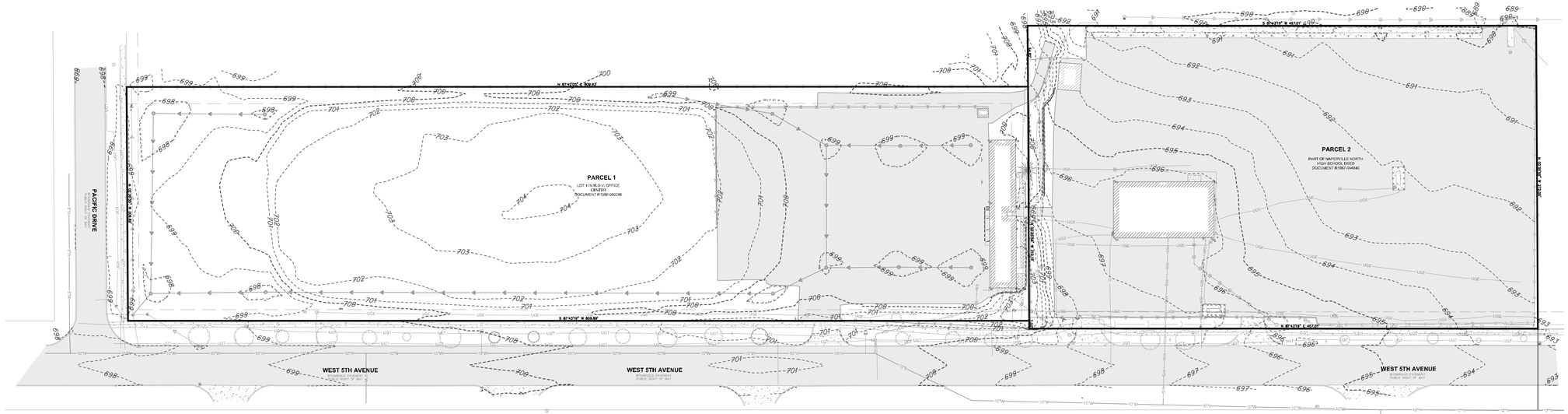
DRAWN BY
R.P. @TWG Engineering

DATE
01-21-2026

SHEET NO.
C0.0
OF 33

COVER SHEET

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N:\Hen\2025\2025105\Engineering\Plan Sets\C1 - New Transportation Facility\C0.0 - Cover Sheet.dwg, Layout: 1 3/31/2026 2:11:44 PM, RandyPhelps



GRAPHIC SCALE
50 0 50
(IN FEET)
1 inch = 50 ft.

L E G E N D

- XXX.XX — EXISTING ELEVATION
- XXX — EXISTING CONTOUR
- EXISTING SANITARY MANHOLE
- EXISTING SANITARY SEWER
- EXISTING SANITARY SEWER SERVICE
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING BUFFALO BOX (B-BOX)
- EXISTING WATER MAIN (SIZE NOTED)
- EXISTING WATER SERVICE
- EXISTING STORM SEWER
- EXISTING STORM SEWER STRUCTURE
- EXISTING CLEANOUT
- EXISTING UTILITY VAULT
- UGE — EXISTING UNDERGROUND ELECTRIC
- UGT — EXISTING UNDERGROUND TELEPHONE
- G — EXISTING GAS MAIN
- EXISTING TREES (W/SIZE)
- EXISTING LIGHT
- EXISTING SIGN
- EXISTING FENCES
- EXISTING CURB
- EXISTING AREA OF CONCRETE
- EXISTING AREA OF BITUMINOUS PAVEMENT

EXISTING CONDITIONS PLAN NOTES:

1.) EXISTING INFORMATION DEPICTED HEREON IS BASED ON TOPOGRAPHIC SURVEY BY JLH LAND SURVEYING INC., DATED 10-6-2025 (SIGNED), JOB No. 25-1447-100. CONTACT J.U.L.I.E. PRIOR TO ANY CONSTRUCTION. EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION ARE TO BE PROTECTED, RELOCATED OR REMOVED BASED ON MUNICIPAL AND UTILITY COMPANY GUIDELINES. COORDINATE WITH APPROPRIATE GOVERNING ENTITIES.

2.) CONTRACTOR SHALL INSPECT THE SITE WITH THE EXISTING CONDITIONS SURVEY PRIOR TO ANY CONSTRUCTION. IF ANY DISCREPANCIES APPEAR THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER IMMEDIATELY.

Call Before You Dig
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ELEVATION = 698.48

THE WILL GROUP ENGINEERING
Main Address: 129 Capista Drive, Shorewood, IL 60404 | Phone: 815-744-6600
Invoicing: 401 S. Carlton Avenue, Wheaton, IL 60187 | www.thewillgroup.com

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DRAWN BY: R.P.	4	3-31-2026	CITY OF NAPERVILLE COMMENTS	M.C.

325-0400-C1

CITY OF NAPERVILLE STAMPS

HEALY BENDER PATTON & BEEN
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NEW TRANSPORTATION FACILITY
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NAPERVILLE, ILLINOIS
FOR
NAPERVILLE COMMUNITY UNIT SCHOOL DISTRICT 203
NAPERVILLE, DUPAGE COUNTY, ILLINOIS

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PROJ. NO.
5-2325-34

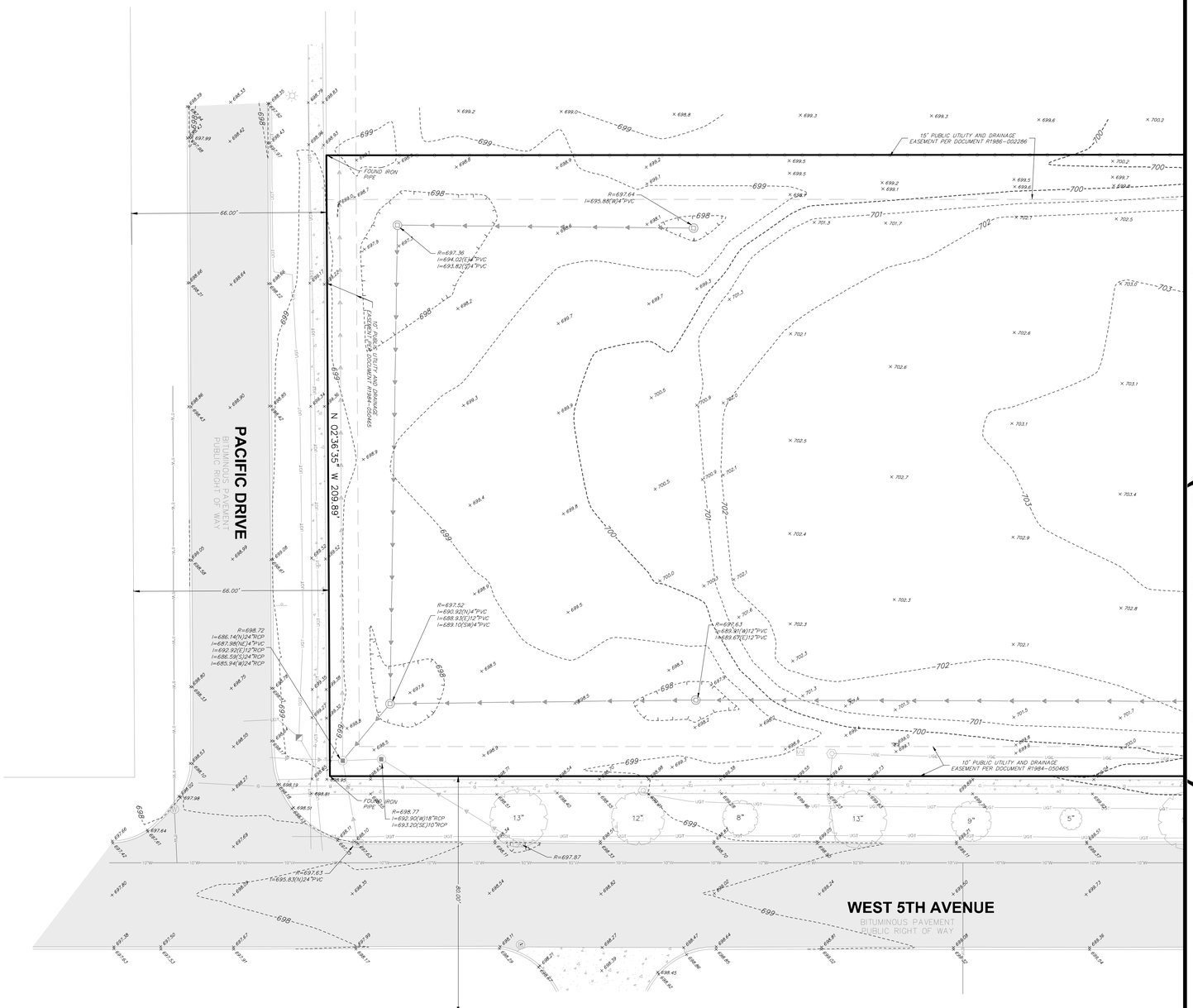
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DATE
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SHEET NO.
C1.0
OF 33

OVERALL EXISTING CONDITIONS

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N:\Proj\2025\0445\Engineering\Site Set\C1 - New Transportation Facility\C1.0 - Overall Existing Conditions.dwg, Layout1, 3/31/2026 2:13:59 PM, RandyPrestes



MATCHLINE A-A (SEE SHEET C1.2)

GRAPHIC SCALE
20 0 20
(IN FEET)
1 inch = 20 ft.

LEGEND

XXX.XX	EXISTING ELEVATION
XXX	EXISTING CONTOUR
S	EXISTING SANITARY MANHOLE
	EXISTING SANITARY SEWER
	EXISTING SANITARY SEWER SERVICE
	EXISTING FIRE HYDRANT
W	EXISTING WATER VALVE
	EXISTING BUFFALO BOX (B-BOX)
12"W	EXISTING WATER MAIN (SIZE NOTED)
W/S	EXISTING WATER SERVICE
	EXISTING STORM SEWER
	EXISTING STORM SEWER STRUCTURE
C	EXISTING CLEANOUT
UV	EXISTING UTILITY VAULT
UGE	EXISTING UNDERGROUND ELECTRIC
UGT	EXISTING UNDERGROUND TELEPHONE
G	EXISTING GAS MAIN
	EXISTING TREES (W/SIZE)
	EXISTING LIGHT
	EXISTING SIGN
	EXISTING FENCES
	EXISTING CURB
	EXISTING AREA OF CONCRETE
	EXISTING AREA OF BITUMINOUS PAVEMENT

EXISTING CONDITIONS PLAN NOTES:

1.) EXISTING INFORMATION DEPICTED HEREON IS BASED ON TOPOGRAPHIC SURVEY BY JLH LAND SURVEYING INC., DATED 10-6-2025 (SIGNED), JOB No. 25-1447-100. CONTACT J.U.L.I.E. PRIOR TO ANY CONSTRUCTION. EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION ARE TO BE PROTECTED, RELOCATED OR REMOVED BASED ON MUNICIPAL AND UTILITY COMPANY GUIDELINES. COORDINATE WITH APPROPRIATE GOVERNING ENTITIES.

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PROJ. NO. 5-2325-34
DRAWN BY R.P. @TWG Engineering
DATE 01-21-2026
SHEET NO. C1.1
OF 33

DETAILED EXISTING CONDITIONS (WEST)

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ELEVATION = 698.48

THE WILL GROUP ENGINEERING
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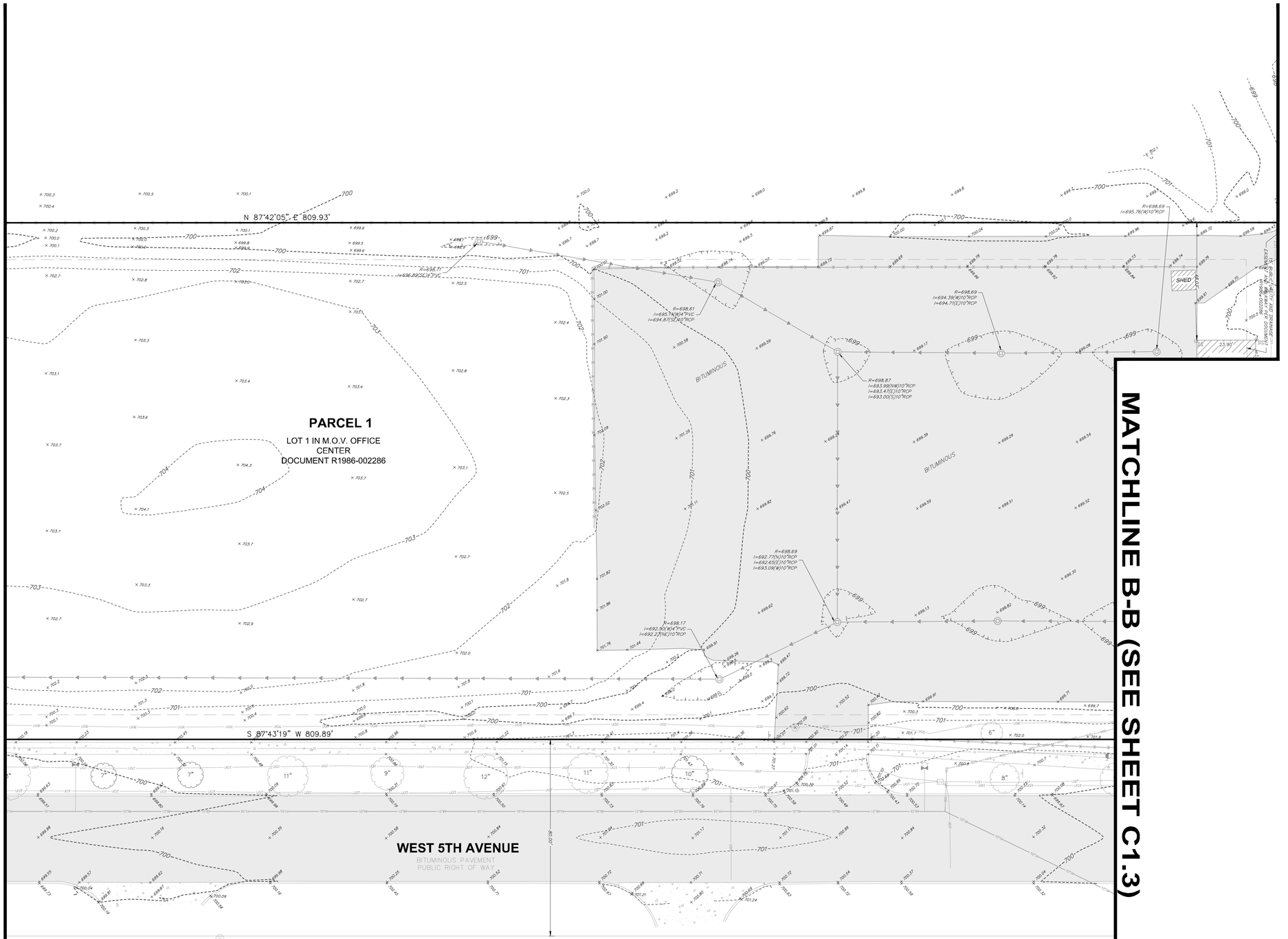
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DRAWN BY: R.P.

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TWG Dwg. No.: 325-0400-C1

CITY OF NAPERVILLE STAMPS

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N:\Work\2025\0400\Engineering\Plans Sets\C1 - New Transportation Facility\C1.1 Detailed Existing Conditions (E) West.dwg, Layout: 1, 3/31/2026 2:12:19 PM, RandyPeoples



GRAPHIC SCALE
20 0 20
(IN FEET)
1 inch = 20 ft.

LEGEND

XXX.XX	EXISTING ELEVATION
XXX	EXISTING CONTOUR
S	EXISTING SANITARY MANHOLE
	EXISTING SANITARY SEWER
	EXISTING SANITARY SEWER SERVICE
	EXISTING FIRE HYDRANT
W	EXISTING WATER VALVE
	EXISTING BUFFALO BOX (B-BOX)
12"W	EXISTING WATER MAIN (SIZE NOTED)
W/S	EXISTING WATER SERVICE
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	EXISTING STORM SEWER STRUCTURE
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PROJ. NO.
5-2325-34

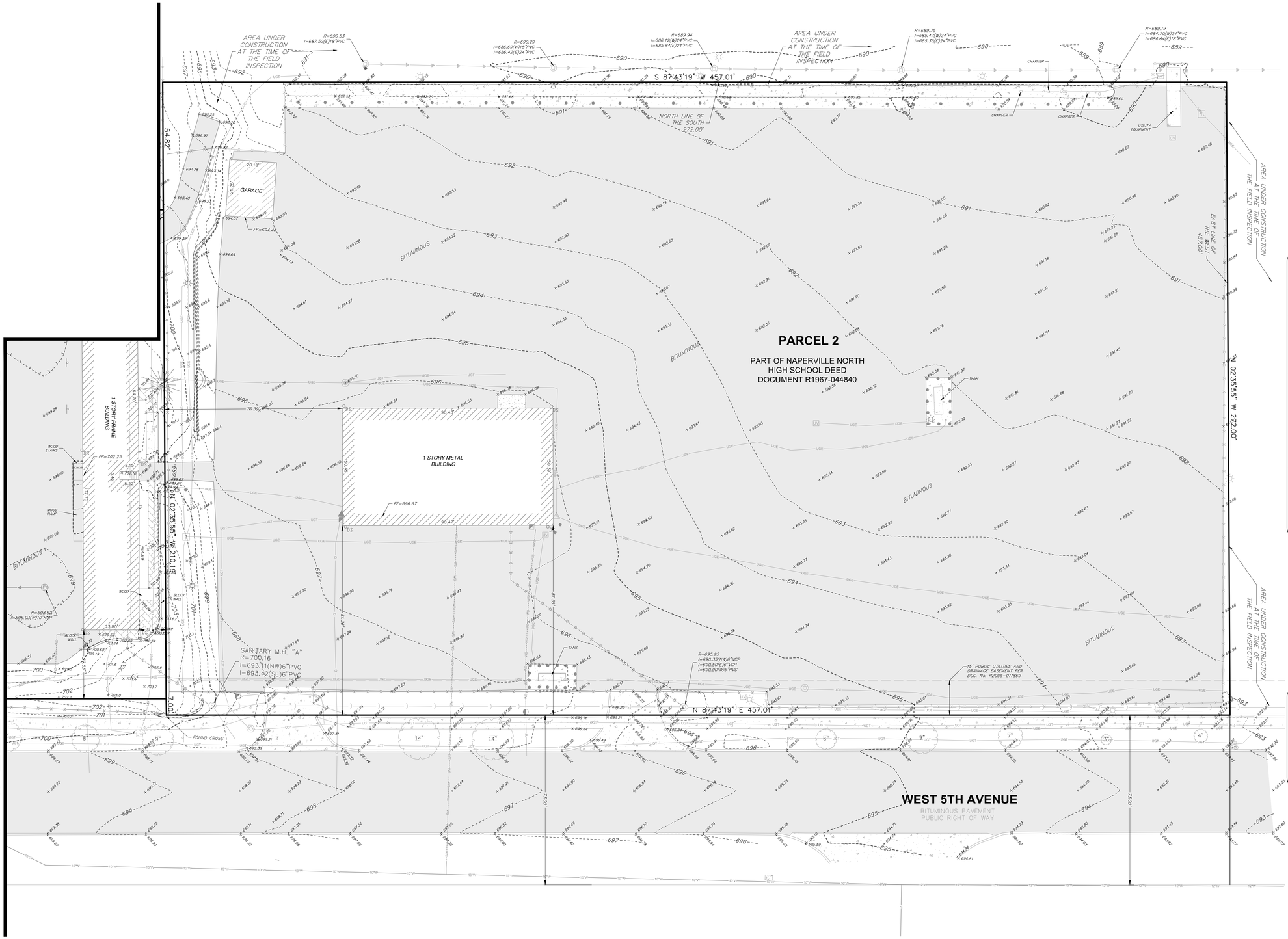
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DETAILED EXISTING CONDITIONS (MIDDLE)

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GRAPHIC SCALE

20 0 20

(IN FEET)

1 inch = 20 ft.

LEGEND

XXX.XX	EXISTING ELEVATION
XXX	EXISTING CONTOUR
S	EXISTING SANITARY MANHOLE
	EXISTING SANITARY SEWER
	EXISTING SANITARY SEWER SERVICE
	EXISTING FIRE HYDRANT
W	EXISTING WATER VALVE
	EXISTING BUFFALO BOX (B-BOX)
12"W	EXISTING WATER MAIN (SIZE NOTED)
W/S	EXISTING WATER SERVICE
	EXISTING STORM SEWER
	EXISTING STORM SEWER STRUCTURE
	EXISTING CLEANOUT
UV	EXISTING UTILITY VAULT
UGE	EXISTING UNDERGROUND ELECTRIC
UGT	EXISTING UNDERGROUND TELEPHONE
G	EXISTING GAS MAIN
	EXISTING TREES (W/SIZE)
	EXISTING LIGHT
	EXISTING SIGN
	EXISTING FENCES
	EXISTING CURB
	EXISTING AREA OF CONCRETE
	EXISTING AREA OF BITUMINOUS PAVEMENT

EXISTING CONDITIONS PLAN NOTES:

1.) EXISTING INFORMATION DEPICTED HEREON IS BASED ON TOPOGRAPHIC SURVEY BY JLH LAND SURVEYING INC., DATED 10-6-2025 (SIGNED), JOB No. 25-1447-100. CONTACT J.U.L.I.E. PRIOR TO ANY CONSTRUCTION. EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION ARE TO BE PROTECTED, RELOCATED OR REMOVED BASED ON MUNICIPAL AND UTILITY COMPANY GUIDELINES, COORDINATE WITH APPROPRIATE GOVERNING ENTITIES.

2.) CONTRACTOR SHALL INSPECT THE SITE WITH THE EXISTING CONDITIONS SURVEY PRIOR TO ANY CONSTRUCTION. IF ANY DISCREPANCIES APPEAR THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER IMMEDIATELY.

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SITE BENCHMARK #1:
NORTHEAST BOLT ON FIRE HYDRANT LOCATED NO THE NORTH SIDE OF WEST 5TH AVENUE AND APPROXIMATELY 318' (FEET) EAST OF THE SOUTHWEST CORNER OF THE SUBJECT PARCEL.
ELEVATION = 701.26

SITE BENCHMARK #2:
CUT SQUARE IN THE NORTHWEST CORNER OF CONCRETE PAD LOCATED ON THE SOUTH SIDE OF WEST 5TH AVENUE AND APPROXIMATELY 200' (FEET) WEST OF THE SOUTHEAST CORNER OF THE SUBJECT PARCEL.
ELEVATION = 698.48

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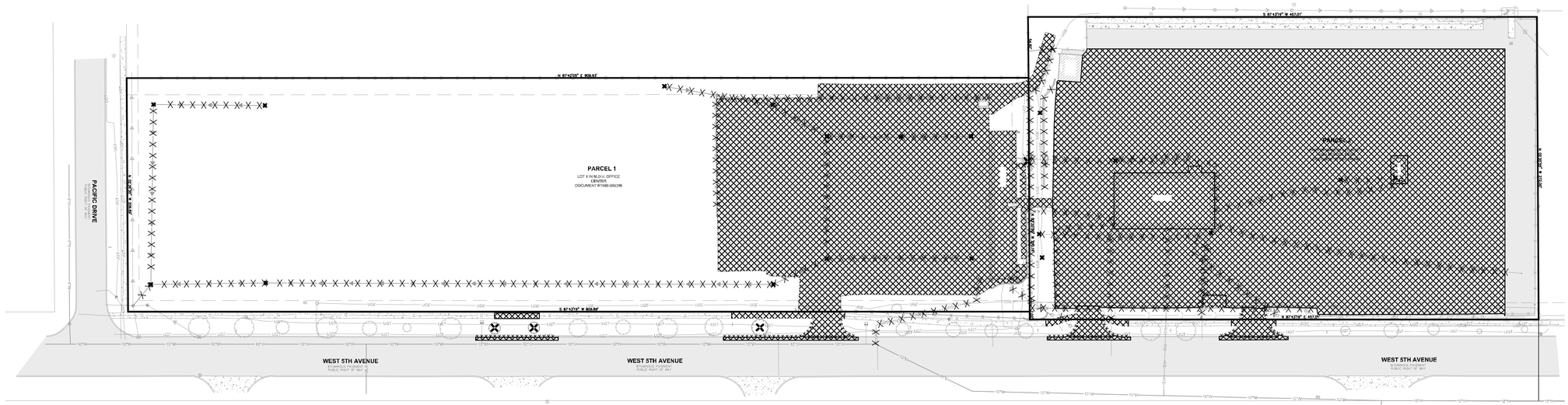
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DETAILED EXISTING CONDITIONS (EAST)

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GRAPHIC SCALE
50 0 50
(IN FEET)
1 inch = 50 ft.

LEGEND

- XXX.XX — EXISTING ELEVATION
- EXISTING SANITARY MANHOLE
- EXISTING SANITARY SEWER
- EXISTING SANITARY SEWER SERVICE
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING BUFFALO BOX (B-BOX)
- EXISTING WATER MAIN (SIZE NOTED)
- EXISTING WATER SERVICE
- EXISTING STORM SEWER
- EXISTING STORM SEWER STRUCTURE
- EXISTING CLEANOUT
- EXISTING UTILITY VAULT
- UGE — EXISTING UNDERGROUND ELECTRIC
- UGT — EXISTING UNDERGROUND TELEPHONE
- G — EXISTING GAS MAIN
- EXISTING TREES (W/SIZE)
- EXISTING LIGHT
- EXISTING SIGN
- EXISTING FENCES
- EXISTING CURB
- EXISTING AREA OF CONCRETE
- EXISTING AREA OF BITUMINOUS PAVEMENT
- EXISTING CURB TO BE REMOVED AS NOTED ON PLANS
- EXISTING AREA OF AN ITEM TO BE REMOVED AS NOTED ON PLANS
- EXISTING ITEM TO BE REMOVED AS NOTED ON PLANS
- EXISTING TREE TO BE REMOVED AS NOTED ON PLANS
- EXISTING UTILITY TO BE REMOVED AS NOTED ON PLANS

DEMOLITION PLAN NOTES:

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ELEVATION = 701.26

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ELEVATION = 696.48

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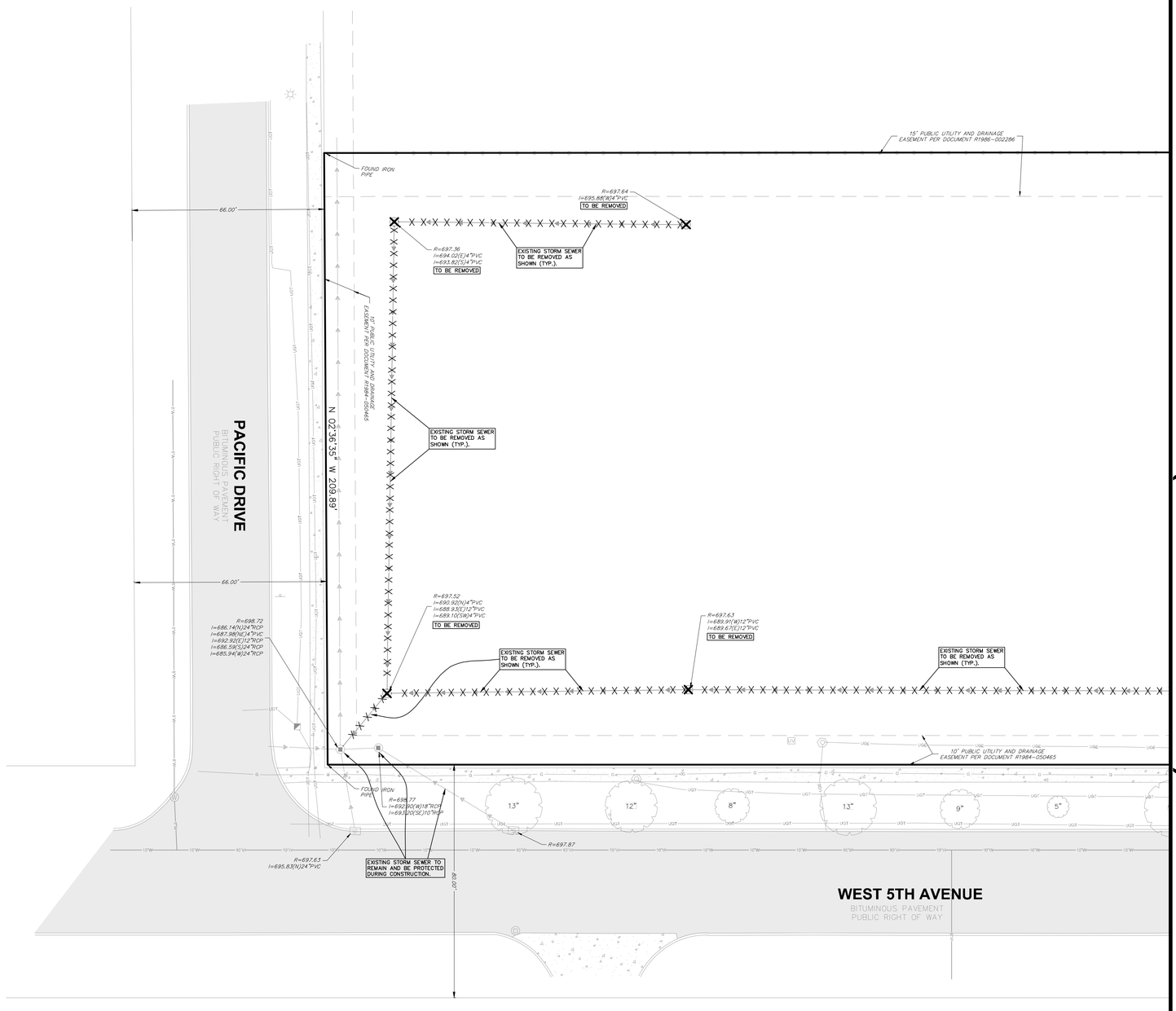
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OVERALL DEMOLITION PLAN

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GRAPHIC SCALE

20 0 20

(IN FEET)

1 inch = 20 ft.

LEGEND

XXXX.XX	EXISTING ELEVATION
S	EXISTING SANITARY MANHOLE
S	EXISTING SANITARY SEWER
S	EXISTING SANITARY SEWER SERVICE
	EXISTING FIRE HYDRANT
W	EXISTING WATER VALVE
	EXISTING BUFFALO BOX (B-BOX)
12"W	EXISTING WATER MAIN (SIZE NOTED)
W/S	EXISTING WATER SERVICE
	EXISTING STORM SEWER
	EXISTING STORM SEWER STRUCTURE
	EXISTING CLEANOUT
UV	EXISTING UTILITY VAULT
UGE	EXISTING UNDERGROUND ELECTRIC
UGT	EXISTING UNDERGROUND TELEPHONE
G	EXISTING GAS MAIN
	EXISTING TREES (W/SIZE)
	EXISTING LIGHT
	EXISTING SIGN
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	EXISTING AREA OF CONCRETE
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	EXISTING ITEM TO BE REMOVED AS NOTED ON PLANS
	EXISTING TREE TO BE REMOVED AS NOTED ON PLANS
	EXISTING UTILITY TO BE REMOVED AS NOTED ON PLANS

DEMOLITION PLAN NOTES:

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DETAILED DEMOLITION PLAN (WEST)

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ELEVATION = 698.48

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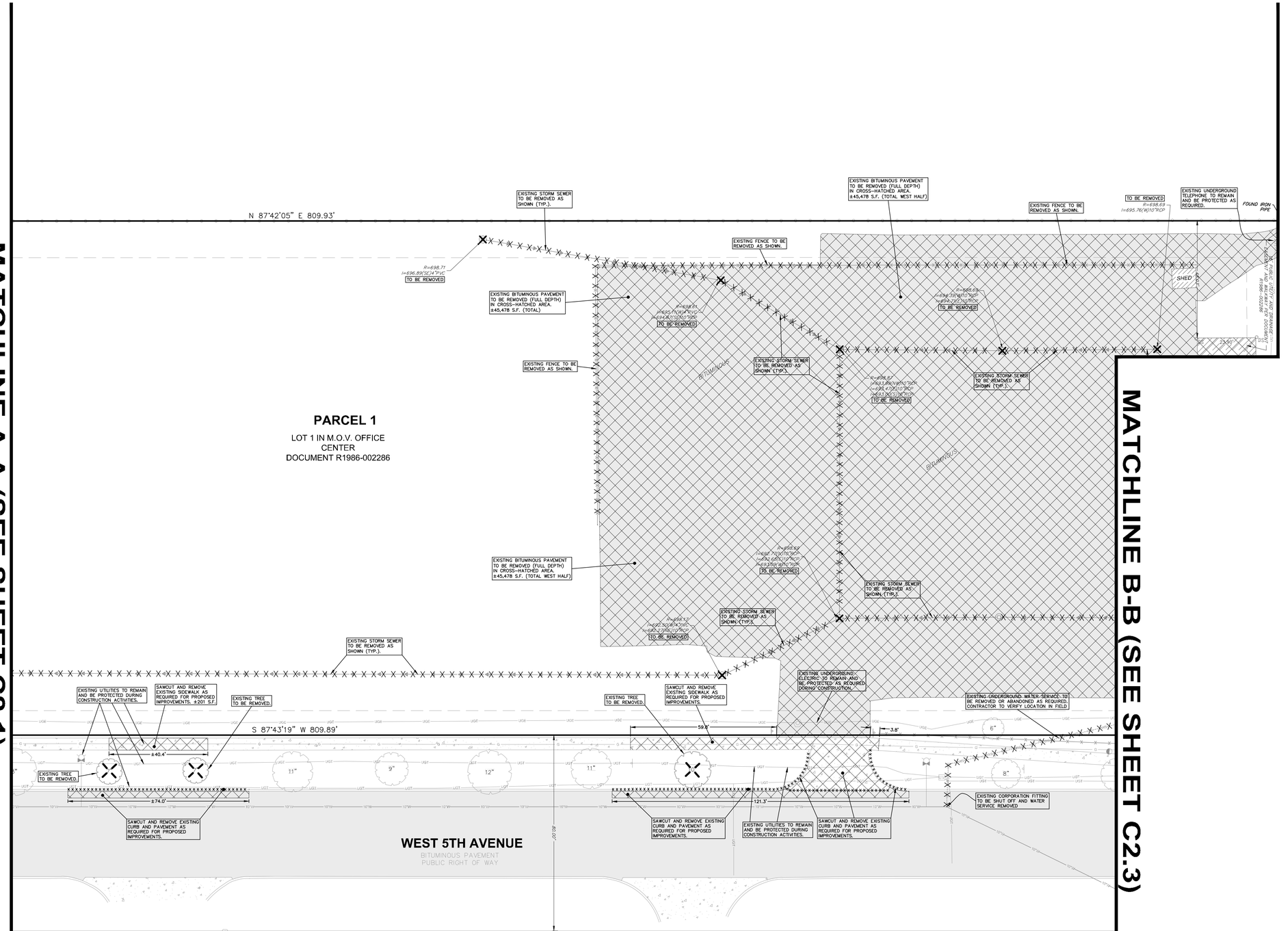
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CITY OF NAPERVILLE STAMPS

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GRAPHIC SCALE
20 0 20
(IN FEET)
1 inch = 20 ft.

LEGEND

- XXXXX — EXISTING ELEVATION
- EXISTING SANITARY MANHOLE
- EXISTING SANITARY SEWER
- EXISTING SANITARY SEWER SERVICE
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING BUFFALO BOX (B-BOX)
- EXISTING WATER MAIN (SIZE NOTED)
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DETAILED DEMOLITION PLAN (MIDDLE)

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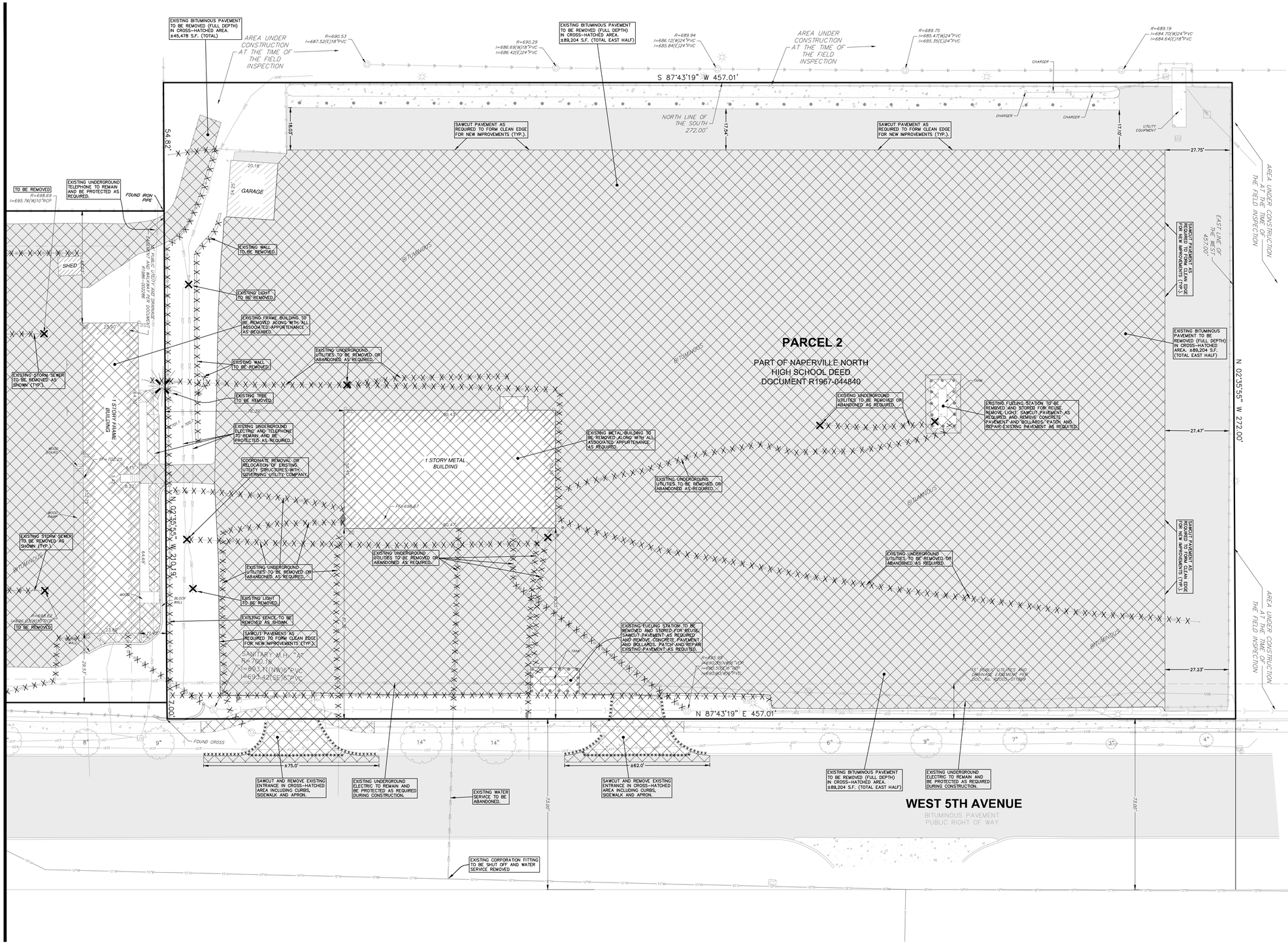
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CITY OF NAPERVILLE STAMPS

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GRAPHIC SCALE
20 0 20
(IN FEET)
1 inch = 20 ft.

LEGEND

- XXXX.XX — EXISTING ELEVATION
- EXISTING SANITARY MANHOLE
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DETAILED DEMOLITION PLAN (EAST)

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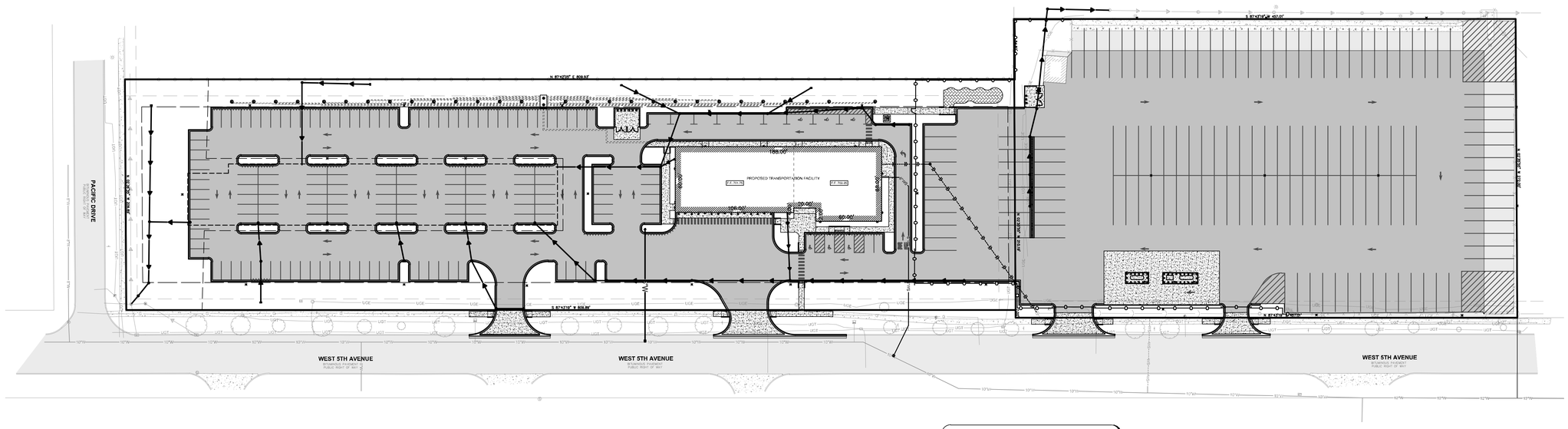
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				325-0400-C1

CITY OF NAPERVILLE STAMPS

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N:\Proj\2025\0400\Engineering\Plan Sets\C1 - New Transportation Facility\C2.3 - Detailed Demolition Plan (E) Sheet.dwg Layout: 3.31.2026 2:13:20 PM RandyPeeples



GRAPHIC SCALE
50 0 50
(IN FEET)
1 inch = 50 ft.

LEGEND

- XXX.XX — EXISTING ELEVATION
- EXISTING SANITARY MANHOLE
- EXISTING SANITARY SEWER
- EXISTING SANITARY SEWER SERVICE
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING BUFFALO BOX (B-BOX)
- 12"W — EXISTING WATER MAIN (SIZE NOTED)
- 4"W — EXISTING WATER SERVICE
- EXISTING STORM SEWER
- EXISTING STORM SEWER STRUCTURE
- EXISTING CLEANOUT
- EXISTING UTILITY VAULT
- UGE — EXISTING UNDERGROUND ELECTRIC
- UGT — EXISTING UNDERGROUND TELEPHONE
- G — EXISTING GAS MAIN
- EXISTING TREES (W/SIZE)
- EXISTING LIGHT
- EXISTING SIGN
- EXISTING FENCES
- EXISTING CURB
- EXISTING AREA OF CONCRETE
- EXISTING AREA OF BITUMINOUS PAVEMENT
- PROPOSED CURB
- PROPOSED CURB (REVERSED PITCH)
- PROPOSED AREA OF CONCRETE
- PROPOSED AREA OF BITUMINOUS PAVEMENT
- PROPOSED FENCE
- 6"W — PROPOSED WATERMAIN
- 6"WS — PROPOSED WATER SERVICE
- PROPOSED FIRE HYDRANT
- PROPOSED WATER VALVE
- PROPOSED SANITARY SEWER SERVICE
- PROPOSED MANHOLE (AS NOTED)
- PROPOSED STORM SEWER
- PROPOSED STORM INLET
- PROPOSED CATCHBASIN
- PROPOSED CLEANOUT
- XXX.XX — PROPOSED ELEVATION

PROPOSED SITE UTILITY PLAN NOTES:

1.) EXISTING UTILITIES DEPICTED HEREON ARE BASED ON FIELD LOCATIONS BY JLH LAND SURVEYING INC., JOB No. 25-1447-100, SIGNED 10-6-2025. CONTACT JULIE, PRIOR TO ANY CONSTRUCTION. EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION ARE TO BE PROTECTED, RELOCATED OR REMOVED BASED ON MUNICIPAL AND UTILITY COMPANY GUIDELINES. COORDINATE WITH APPROPRIATE GOVERNING ENTITIES.

2.) CONTRACTOR SHALL INSPECT THE SITE WITH THE EXISTING CONDITIONS SURVEY PRIOR TO ANY CONSTRUCTION. IF ANY DISCREPANCIES APPEAR THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER IMMEDIATELY.

3.) CONTRACTOR SHALL CONFIRM ALL PERMITS ARE IN PLACE PRIOR TO CONSTRUCTION.

4.) CONTRACTOR WILL BE REQUIRED TO MAINTAIN A SECURE SITE.

5.) FIELD VERIFY LOCATION OF EXISTING UTILITIES. PROVIDE ADEQUATE PROTECTION OF UTILITIES TO REMAIN IN USE AND USE MUNICIPAL AND UTILITY COMPANY GUIDELINES FOR UTILITIES TO BE RELOCATED OR REMOVED. COORDINATE WITH APPROPRIATE GOVERNING ENTITIES AND THE CONSTRUCTION MANAGER.

6.) SAWCUT ALL PAVEMENT, CURB AND SIDEWALK JOINTS.

7.) ALL MATERIAL NOTED AS "TO BE REMOVED" SHALL BE DISPOSED OF PROPERLY OFFSITE INCLUDING TREES, STUMPS, ROOTS AND SHRUBS UNLESS OTHERWISE NOTED.

8.) EXISTING ROADWAY SHALL REMAIN CLEAR AND FREE OF ANY DEBRIS.

8.) PROPOSED FULL DEPTH TRENCH BACKFILL IS REQUIRED UNDER AND WITHIN 2 FEET HORIZONTALLY OF ALL EXISTING OR PROPOSED PAVEMENTS, SIDEWALKS, CURB & GUTTER OR DRIVEWAYS.

10.) ALL DISTURBED AREAS IN EXISTING NATURAL TURF SHALL BE RESTORED WITH 6" (INCHES) OF TOPSOIL AND SOD.

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48 Hours (2 Working Days) BEFORE YOU DIG.
Indicate the following:
County, City/Township, Section & 1/4 Section No.

SITE BENCHMARK #1:
NORTHEAST BOLT ON FIRE HYDRANT LOCATED NO. THE NORTH SIDE OF WEST 5TH AVENUE AND APPROXIMATELY 318' (FEET) EAST OF THE SOUTHWEST CORNER OF THE SUBJECT PARCEL.
ELEVATION = 701.26

SITE BENCHMARK #2:
CUT SQUARE IN THE NORTHWEST CORNER OF CONCRETE PAD LOCATED ON THE SOUTH SIDE OF WEST 5TH AVENUE AND APPROXIMATELY 200' (FEET) WEST OF THE SOUTHEAST CORNER OF THE SUBJECT PARCEL.
ELEVATION = 696.48

THE WILL GROUP ENGINEERING
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325-0400-C1

CITY OF NAPERVILLE STAMPS

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NEW TRANSPORTATION FACILITY
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NAPERVILLE, ILLINOIS
FOR
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PROJ. NO.
5-2325-34

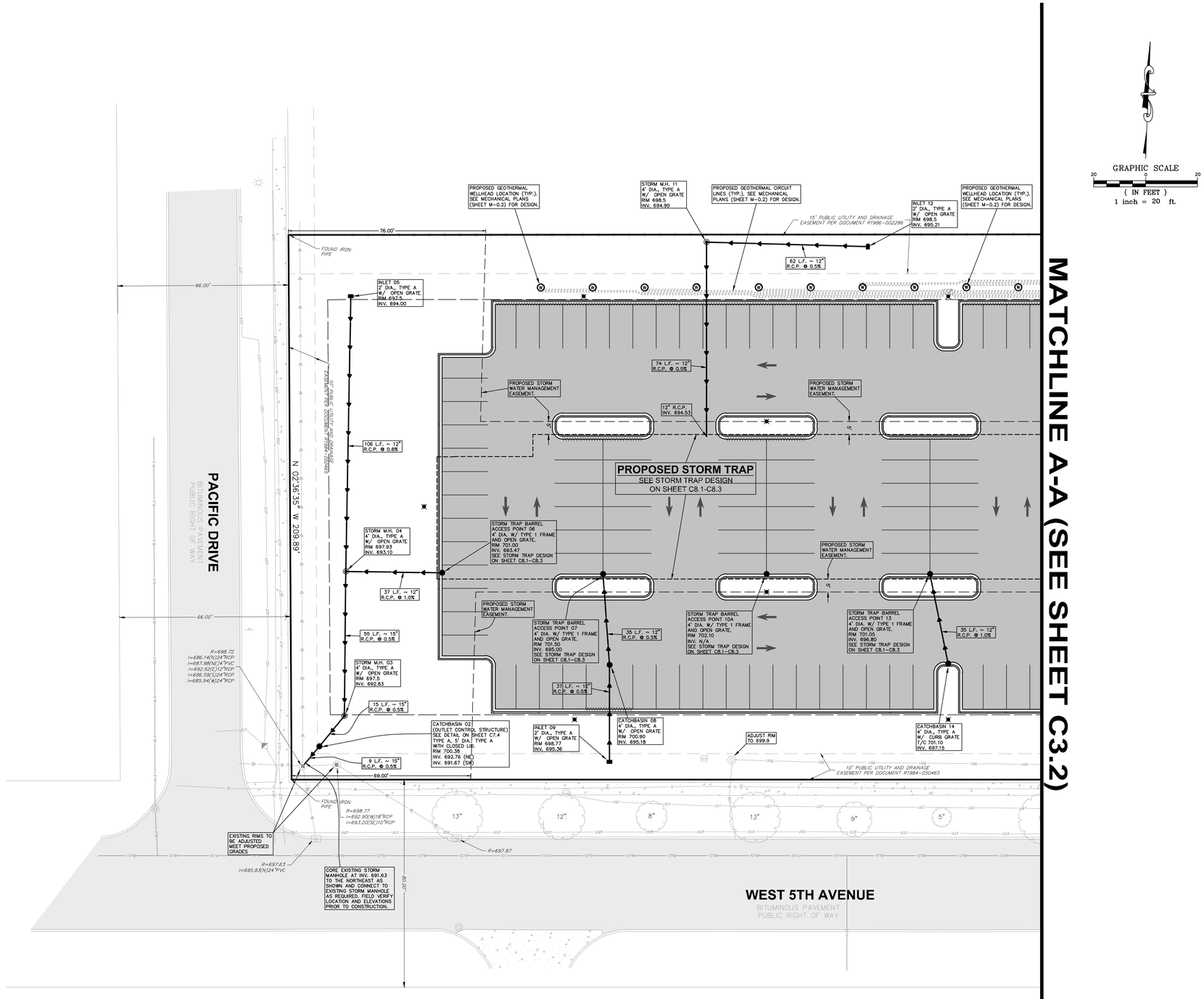
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OVERALL PROPOSED SITE UTILITY PLAN

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GRAPHIC SCALE
20 0 20
(IN FEET)
1 inch = 20 ft.

LEGEND

- XXXXX — EXISTING ELEVATION
- EXISTING SANITARY MANHOLE
- EXISTING SANITARY SEWER
- EXISTING SANITARY SEWER SERVICE
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING BUFFALO BOX (B-BOX)
- EXISTING WATER MAIN (SIZE NOTED)
- EXISTING WATER SERVICE
- EXISTING STORM SEWER
- EXISTING STORM SEWER STRUCTURE
- EXISTING CLEANOUT
- EXISTING UTILITY VAULT
- EXISTING UNDERGROUND ELECTRIC
- EXISTING UNDERGROUND TELEPHONE
- EXISTING GAS MAIN
- EXISTING TREES (W/SIZE)
- EXISTING LIGHT
- EXISTING SIGN
- EXISTING FENCES
- EXISTING CURB
- EXISTING AREA OF CONCRETE
- EXISTING AREA OF BITUMINOUS PAVEMENT
- PROPOSED CURB
- PROPOSED CURB (REVERSED PITCH)
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- PROPOSED FENCE
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- PROPOSED FIRE HYDRANT
- PROPOSED WATER VALVE
- PROPOSED SANITARY SEWER SERVICE
- PROPOSED MANHOLE (AS NOTED)
- PROPOSED STORM SEWER
- PROPOSED STORM INLET
- PROPOSED CATCHBASIN
- PROPOSED CLEANOUT
- XXX.XX — PROPOSED ELEVATION

PROPOSED SITE UTILITY PLAN NOTES:

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DETAILED PROPOSED SITE UTILITY PLAN (WEST)

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SITE BENCHMARK #1:
NORTHEAST BOLT ON FIRE HYDRANT LOCATED NO THE NORTH SIDE OF WEST 5TH AVENUE AND APPROXIMATELY 318' (FEET) EAST OF THE SOUTHWEST CORNER OF THE SUBJECT PARCEL.
ELEVATION = 701.26

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ELEVATION = 698.48

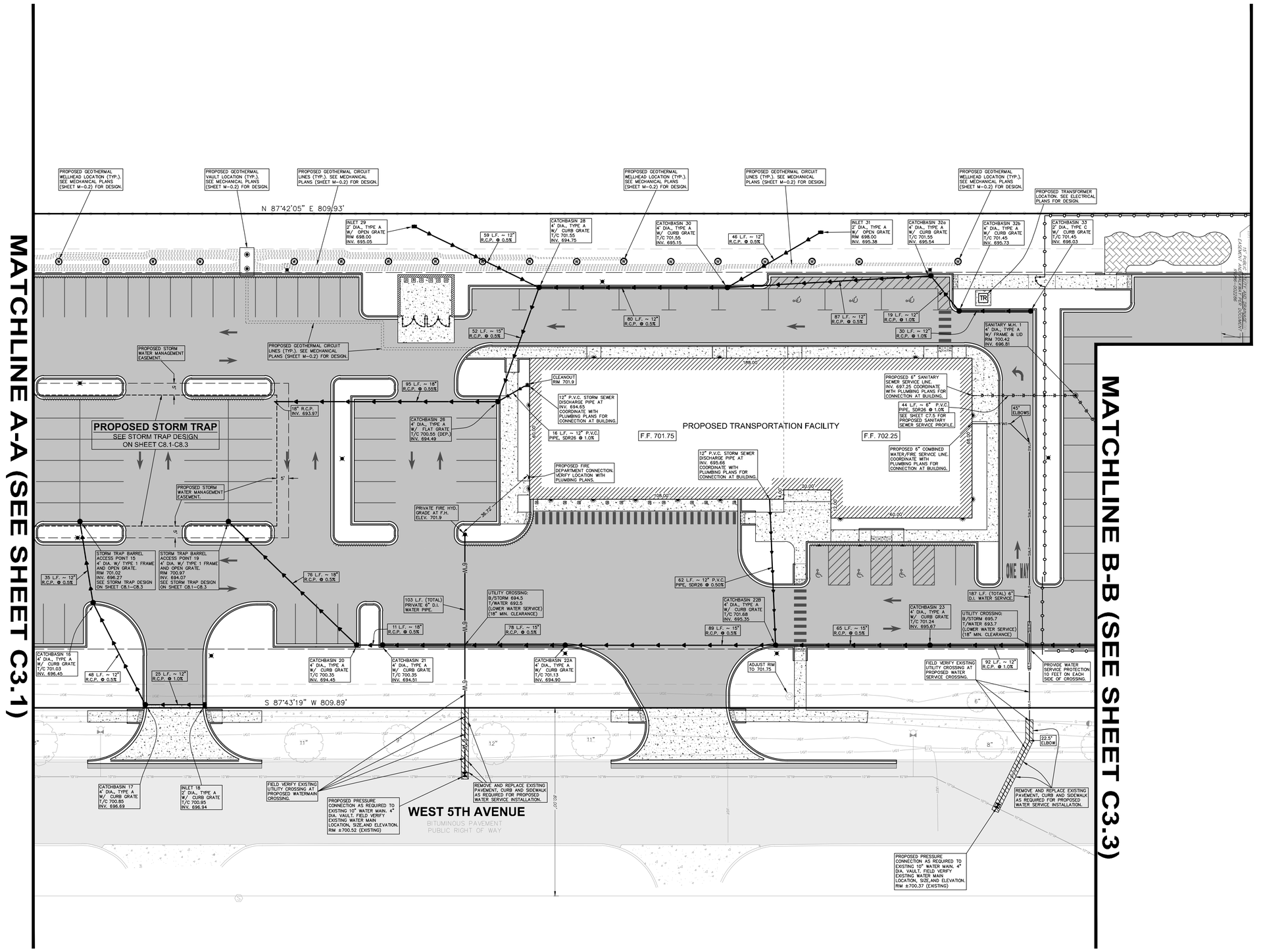
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TWG Dwg. No.: 325-0400-C1

CITY OF NAPERVILLE STAMPS



GRAPHIC SCALE
20 0 20
(IN FEET)
1 inch = 20 ft.

LEGEND

- XXXX.XX — EXISTING ELEVATION
- EXISTING SANITARY MANHOLE
- EXISTING SANITARY SEWER
- EXISTING SANITARY SEWER SERVICE
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING BUFFALO BOX (B-BOX)
- EXISTING WATER MAIN (SIZE NOTED)
- EXISTING WATER SERVICE
- EXISTING STORM SEWER
- EXISTING STORM SEWER STRUCTURE
- EXISTING CLEANOUT
- EXISTING UTILITY VAULT
- EXISTING UNDERGROUND ELECTRIC
- EXISTING UNDERGROUND TELEPHONE
- EXISTING GAS MAIN
- EXISTING TREES (W/SIZE)
- EXISTING LIGHT
- EXISTING SIGN
- EXISTING FENCES
- EXISTING CURB
- EXISTING AREA OF CONCRETE
- EXISTING AREA OF BITUMINOUS PAVEMENT
- PROPOSED CURB
- PROPOSED CURB (REVERSED PITCH)
- PROPOSED AREA OF CONCRETE
- PROPOSED AREA OF BITUMINOUS PAVEMENT
- PROPOSED FENCE
- PROPOSED WATERMAIN
- PROPOSED WATER SERVICE
- PROPOSED FIRE HYDRANT
- PROPOSED WATER VALVE
- PROPOSED SANITARY SEWER SERVICE
- PROPOSED MANHOLE (AS NOTED)
- PROPOSED STORM SEWER
- PROPOSED STORM INLET
- PROPOSED CATCHBASIN
- PROPOSED CLEANOUT
- XXX.XX — PROPOSED ELEVATION

PROPOSED SITE UTILITY PLAN NOTES:

1.) EXISTING UTILITIES DEPICTED HEREON ARE BASED ON FIELD LOCATIONS BY AJH LAND SURVEYING INC., JOB No. 25-1447-100, SIGNED 10-6-2025. CONTACT J.U.L.I.E. PRIOR TO ANY CONSTRUCTION. EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION ARE TO BE PROTECTED, RELOCATED OR REMOVED BASED ON MUNICIPAL AND UTILITY COMPANY GUIDELINES. COORDINATE WITH APPROPRIATE GOVERNING ENTITIES.

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ELEVATION = 701.26

SITE BENCHMARK #2:
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ELEVATION = 696.48

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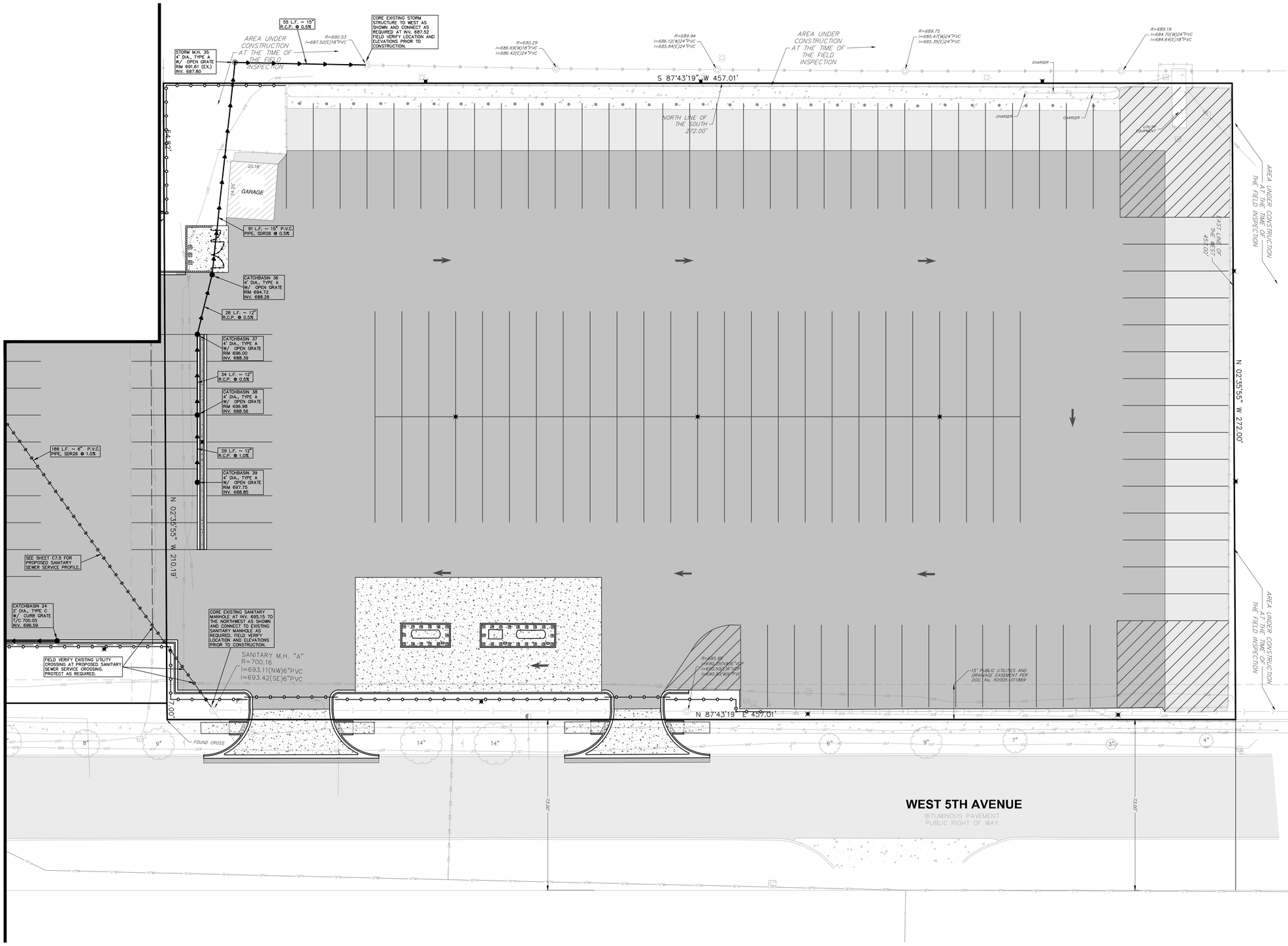
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DETAILED PROPOSED SITE UTILITY PLAN (MIDDLE)

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GRAPHIC SCALE

20 0 20

(IN FEET)

1 inch = 20 ft.

LEGEND

- XXX.XX — EXISTING ELEVATION
- EXISTING SANITARY MANHOLE
- EXISTING SANITARY SEWER
- EXISTING SANITARY SEWER SERVICE
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING BUFFALO BOX (B-BOX)
- EXISTING WATER MAIN (SIZE NOTED)
- EXISTING WATER SERVICE
- EXISTING STORM SEWER
- EXISTING STORM SEWER STRUCTURE
- EXISTING CLEANOUT
- EXISTING UTILITY VAULT
- EXISTING UNDERGROUND ELECTRIC
- EXISTING UNDERGROUND TELEPHONE
- EXISTING GAS MAIN
- EXISTING TREES (W/SIZE)
- EXISTING LIGHT
- EXISTING SIGN
- EXISTING FENCES
- EXISTING CURB
- EXISTING AREA OF CONCRETE
- EXISTING AREA OF BITUMINOUS PAVEMENT
- PROPOSED CURB
- PROPOSED CURB (REVERSED PITCH)
- PROPOSED AREA OF CONCRETE
- PROPOSED AREA OF BITUMINOUS PAVEMENT
- PROPOSED FENCE
- 8"W — PROPOSED WATERMAIN
- 6"WS — PROPOSED WATER SERVICE
- PROPOSED FIRE HYDRANT
- PROPOSED WATER VALVE
- PROPOSED SANITARY SEWER SERVICE
- PROPOSED MANHOLE (AS NOTED)
- PROPOSED STORM SEWER
- PROPOSED STORM INLET
- PROPOSED CATCHBASIN
- PROPOSED CLEANOUT
- XXX.XX — PROPOSED ELEVATION

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5-2325-34

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R.P. @TWG Engineering

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SHEET NO.
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OF 33

DETAILED PROPOSED SITE UTILITY PLAN (EAST)

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ELEVATION = 698.48

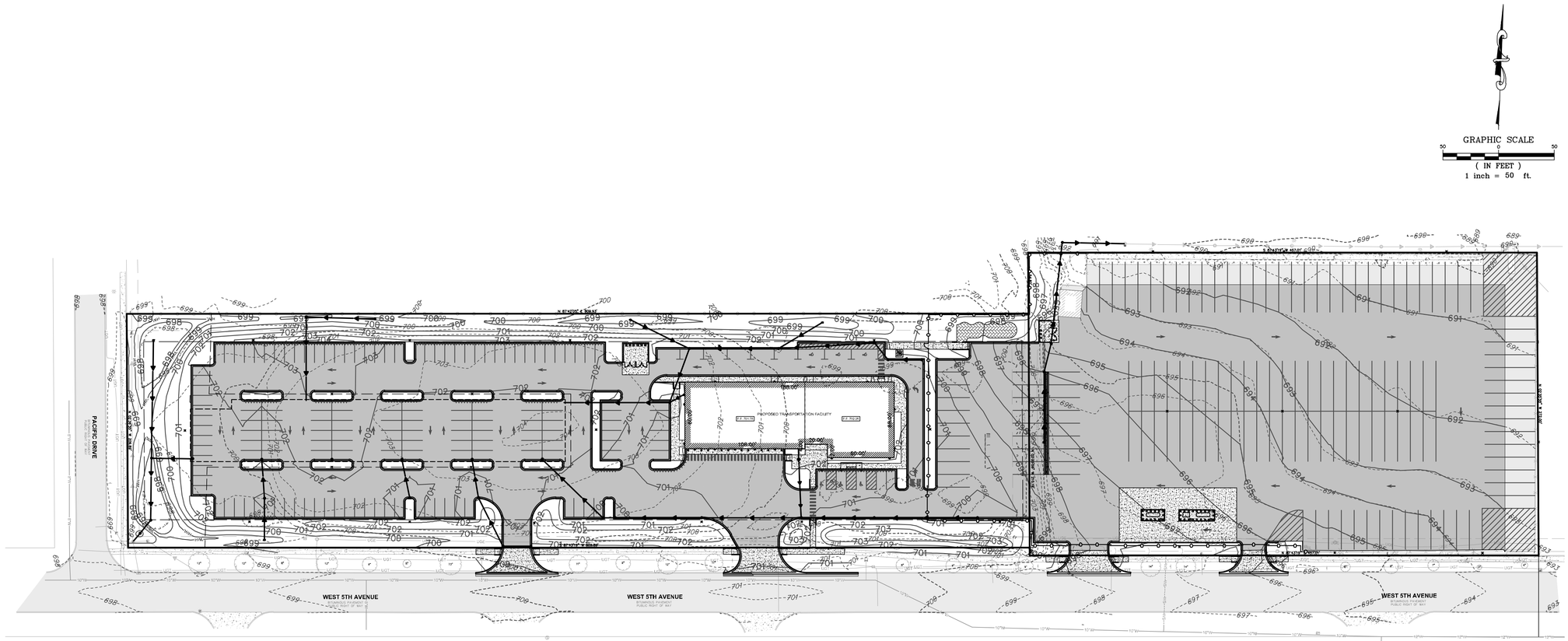
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LEGEND

- XXX.XX — EXISTING ELEVATION
- XXX — EXISTING CONTOUR
- EXISTING STORM SEWER
- EXISTING STORM SEWER STRUCTURE
- EXISTING CLEANOUT
- EXISTING UTILITY VAULT
- EXISTING TREES (W/SIZE)
- EXISTING LIGHT
- EXISTING SIGN
- EXISTING FENCES
- EXISTING CURB
- EXISTING AREA OF CONCRETE
- EXISTING AREA OF BITUMINOUS PAVEMENT
- PROPOSED CURB
- PROPOSED CURB (REVERSED PITCH)
- PROPOSED AREA OF CONCRETE
- PROPOSED AREA OF BITUMINOUS PAVEMENT
- PROPOSED FENCE
- PROPOSED MANHOLE (AS NOTED)
- PROPOSED STORM SEWER
- PROPOSED STORM INLET
- PROPOSED CATCHBASIN
- PROPOSED CLEANOUT
- XXX.XX — PROPOSED ELEVATION
- XXX.XX / XXX.X — PROPOSED TOP OF CURB ELEVATION / PROPOSED FLOW LINE ELEVATION
- PROPOSED DIRECTION OF OVERLAND FLOW
- PROPOSED EMERGENCY OVERFLOW ROUTE
- F.F. — FINISHED FLOOR

PROPOSED SITE GRADING NOTES:

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3.) GRADE SLOPE SHALL NOT EXCEED 4 TO 1.

4.) CONTRACTOR SHALL REFER TO THE LANDSCAPE PLANS FOR ADDITIONAL SITE AMENITIES INCLUDING FENCING.

5.) A.D.A. ROUTES SHALL NOT EXCEED 2.00% CROSS SLOPES.

6.) ALL DISTURBED AREAS IN EXISTING NATURAL TURF SHALL BE RESTORED WITH 6" (INCHES) OF TOPSOIL AND SOD.

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SITE BENCHMARK #1:
NORTHEAST BOLT ON FIRE HYDRANT LOCATED NO THE NORTH SIDE OF WEST 5TH AVENUE AND APPROXIMATELY 318' (FEET) EAST OF THE SOUTHWEST CORNER OF THE SUBJECT PARCEL.
ELEVATION = 701.26

SITE BENCHMARK #2:
CUT SQUARE IN THE NORTHWEST CORNER OF CONCRETE PAD LOCATED ON THE SOUTH SIDE OF WEST 5TH AVENUE AND APPROXIMATELY 200' (FEET) WEST OF THE SOUTHEAST CORNER OF THE SUBJECT PARCEL.
ELEVATION = 698.48

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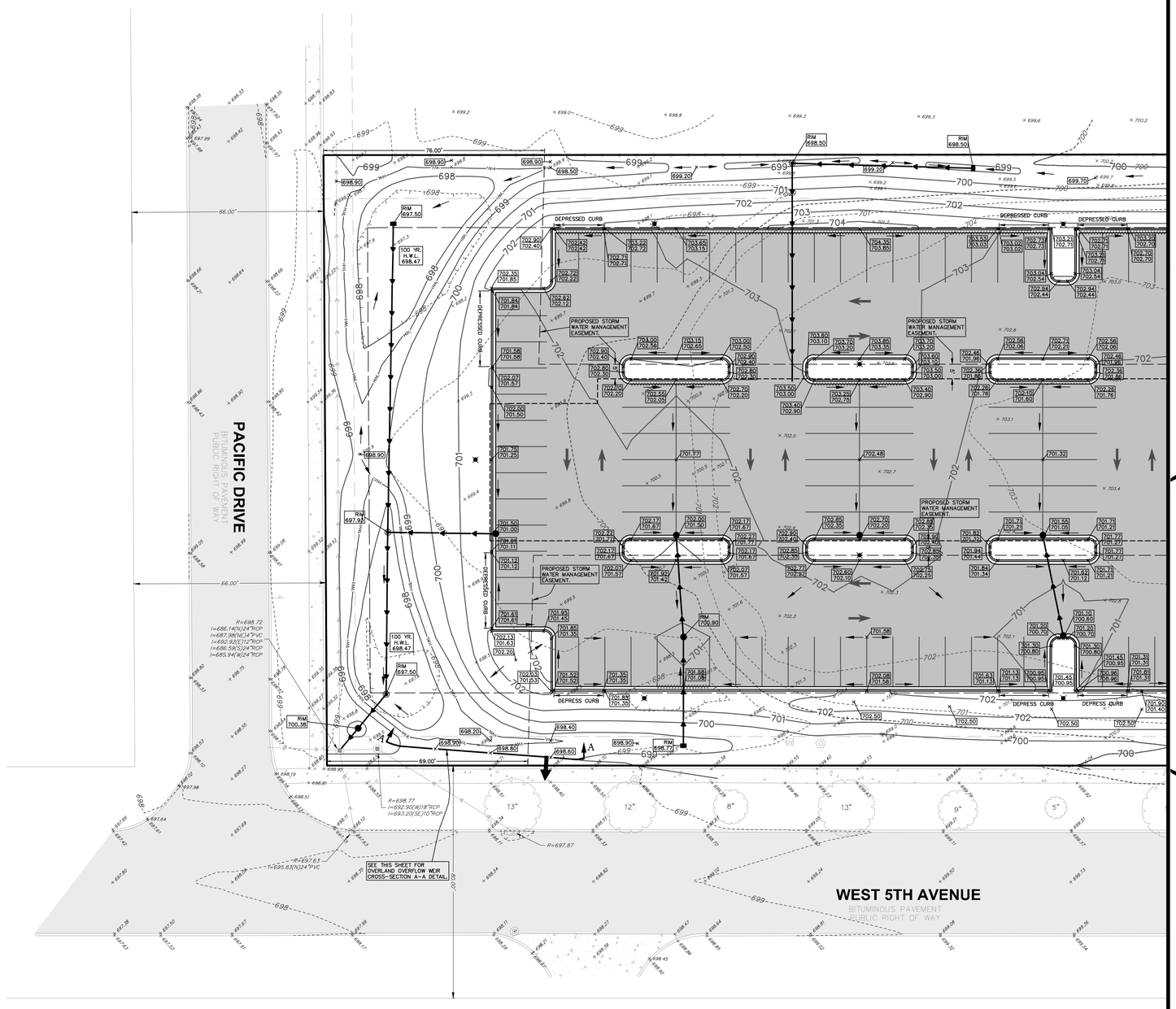
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OVERALL PROPOSED SITE GRADING PLAN

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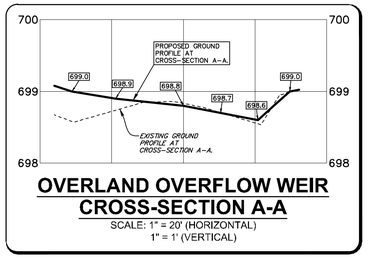


MATCHLINE A-A (SEE SHEET C4.2)

GRAPHIC SCALE
20 0 20
(IN FEET)
1 inch = 20 ft.

LEGEND

- XXX.XX — EXISTING ELEVATION
- XXX — EXISTING CONTOUR
- EXISTING STORM SEWER
- EXISTING STORM SEWER STRUCTURE
- EXISTING CLEANOUT
- EXISTING UTILITY VAULT
- EXISTING TREES (W/SIZE)
- EXISTING LIGHT
- EXISTING SIGN
- EXISTING FENCES
- EXISTING CURB
- EXISTING AREA OF CONCRETE
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- PROPOSED DIRECTION OF OVERLAND FLOW
- PROPOSED EMERGENCY OVERFLOW ROUTE
- F.F. — FINISHED FLOOR



OVERLAND OVERFLOW WEIR CROSS-SECTION A-A

SCALE: 1" = 20' (HORIZONTAL)
1" = 1' (VERTICAL)

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ELEVATION = 701.26

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ELEVATION = 698.48

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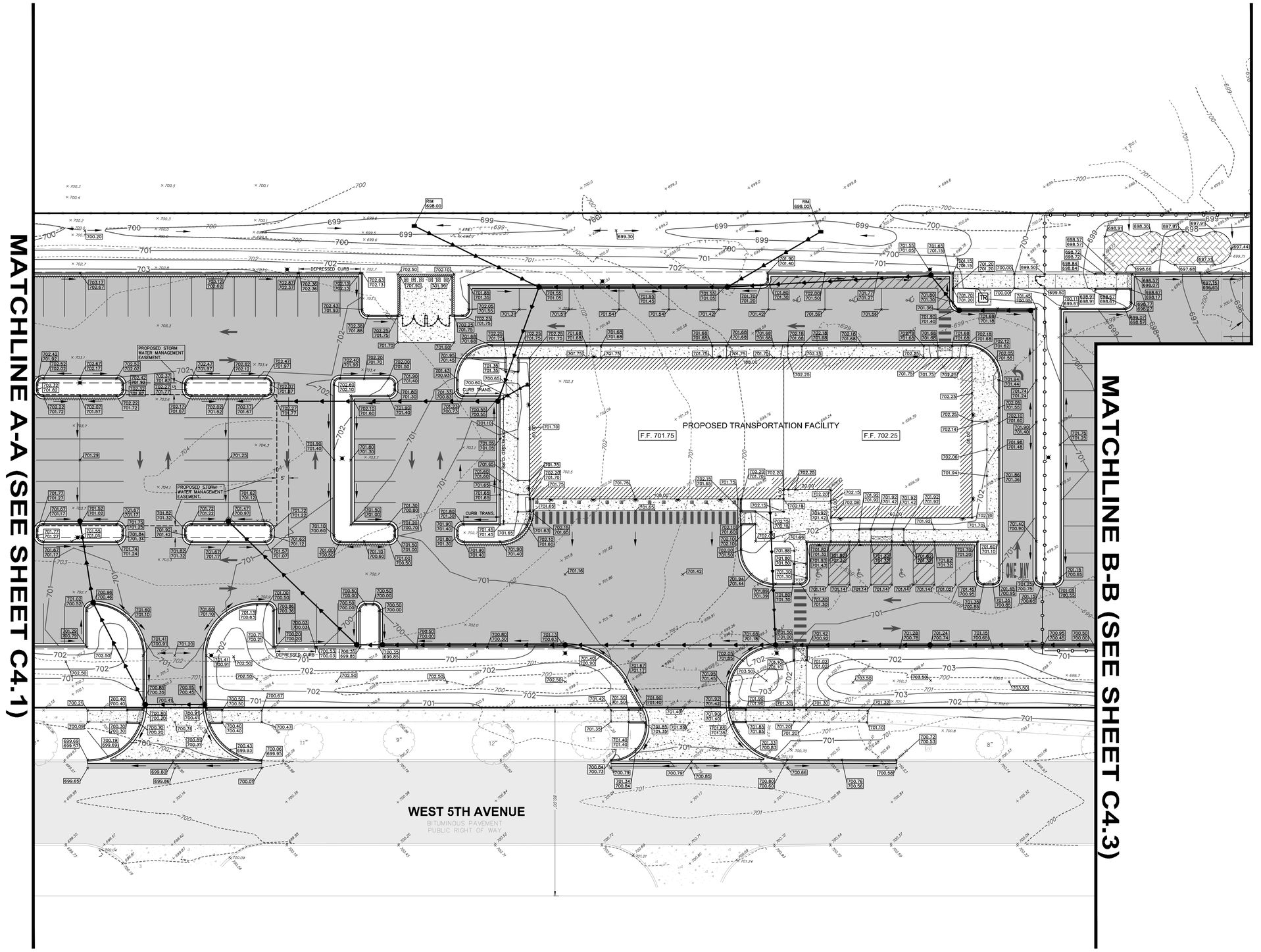
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DETAILED PROPOSED SITE GRADING PLAN (WEST)

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GRAPHIC SCALE
20 0 20
(IN FEET)
1 inch = 20 ft.

LEGEND

- XXX.XX — EXISTING ELEVATION
- XXX — EXISTING CONTOUR
- EXISTING STORM SEWER
- EXISTING STORM SEWER STRUCTURE
- EXISTING CLEANOUT
- EXISTING UTILITY VAULT
- EXISTING TREES (W/SIZE)
- EXISTING LIGHT
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DETAILED PROPOSED SITE GRADING PLAN (MIDDLE)

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ELEVATION = 701.26

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ELEVATION = 698.48

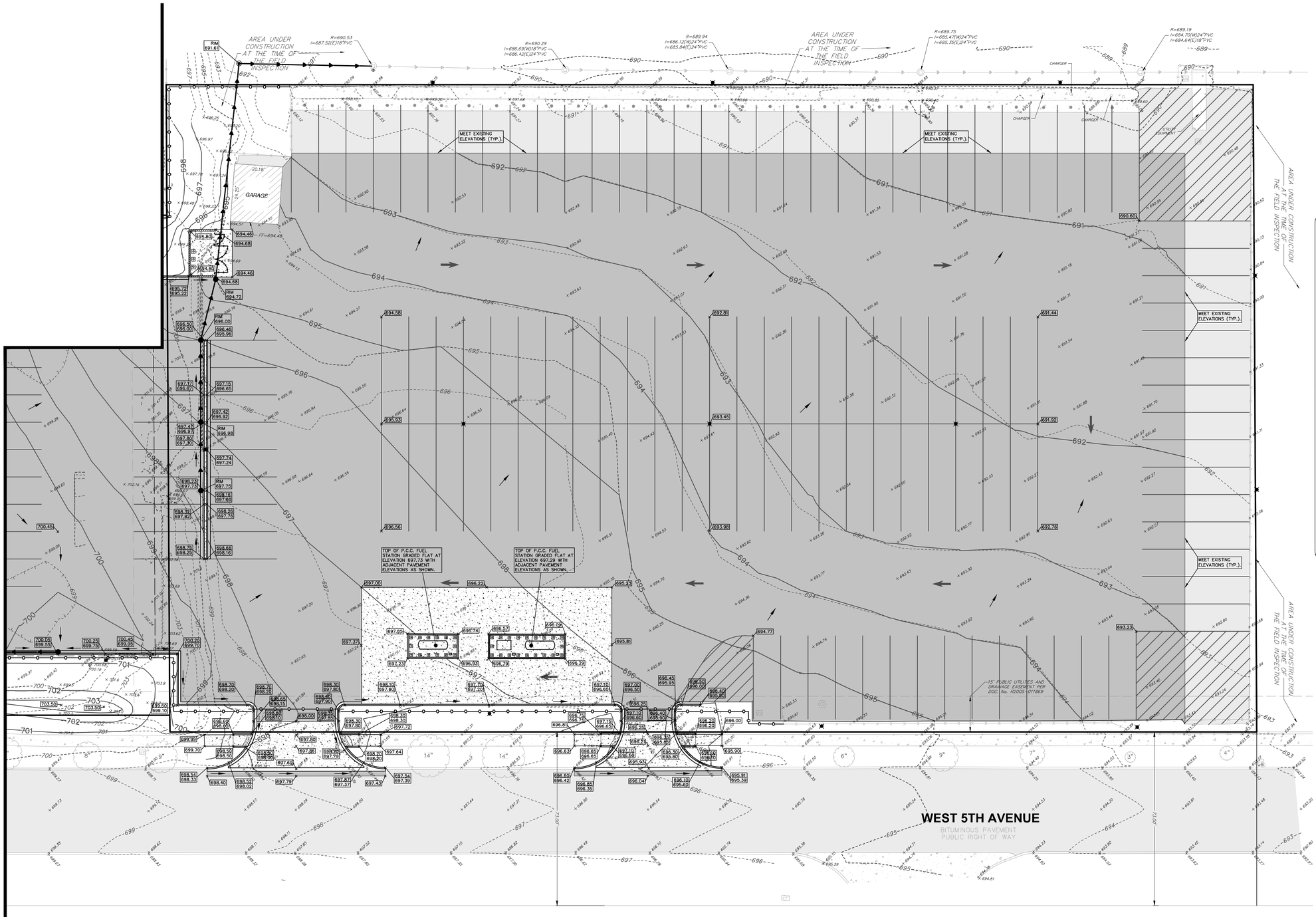
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CITY OF NAPERVILLE STAMPS



GRAPHIC SCALE

20 0 20

(IN FEET)

1 inch = 20 ft.

LEGEND

- XXX.XX — EXISTING ELEVATION
- XXX — EXISTING CONTOUR
- EXISTING STORM SEWER
- EXISTING STORM SEWER STRUCTURE
- EXISTING CLEANOUT
- EXISTING UTILITY VAULT
- EXISTING TREES (W/SIZE)
- EXISTING LIGHT
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DETAILED PROPOSED SITE GRADING PLAN (EAST)

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ELEVATION = 701.26

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ELEVATION = 698.48

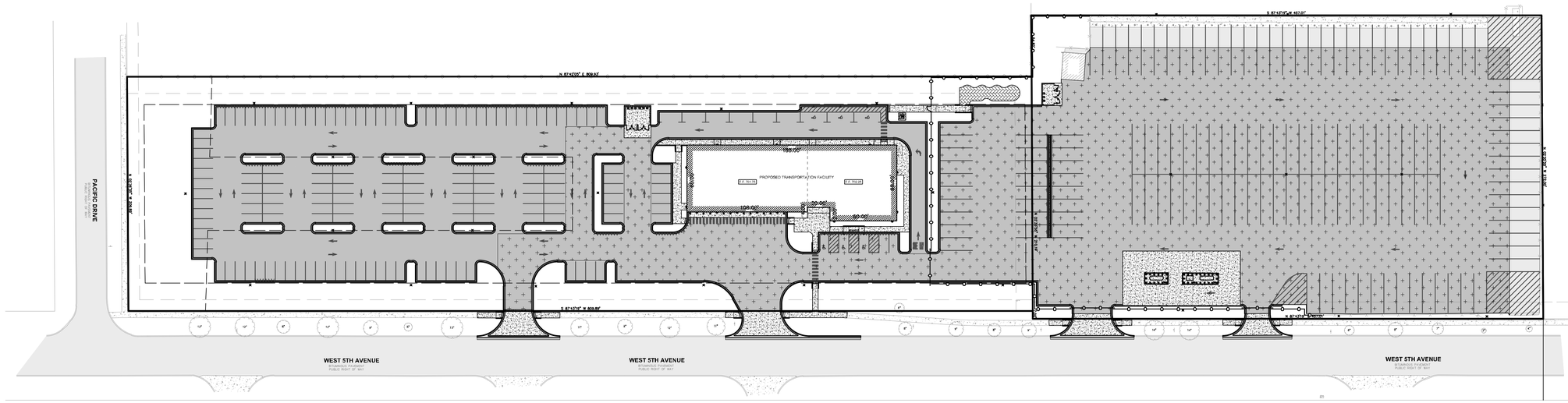
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CITY OF NAPERVILLE STAMPS

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GRAPHIC SCALE
50 0 50
(IN FEET)
1 inch = 50 ft.

LEGEND

- EXISTING TREES (W/SIZE)
- EXISTING LIGHT
- EXISTING SIGN
- EXISTING FENCES
- EXISTING CURB
- EXISTING AREA OF CONCRETE
- EXISTING AREA OF BITUMINOUS PAVEMENT
- PROPOSED CURB
- PROPOSED CURB (REVERSED PITCH)
- PROPOSED AREA OF CONCRETE
- PROPOSED AREA OF BITUMINOUS PAVEMENT
- PROPOSED AREA OF HEAVY DUTY PAVEMENT
- PROPOSED FENCE

PROPOSED SITE GEOMETRY PLAN NOTES:

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3.) UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE SHOWN TO THE BACK OF THE CURBLINE WHERE APPLICABLE.

4.) UNLESS OTHERWISE SPECIFIED, ALL CURBS SHALL BE B-6.12 CURB AND GUTTER.

5.) REFER TO PROPOSED SITE PHOTOMETRIC PLANS BY ELECTRICAL CONTRACTOR FOR SPECIFIC EXTERIOR BUILDING ILLUMINATION INCLUDING WALL MOUNTED LIGHTING.

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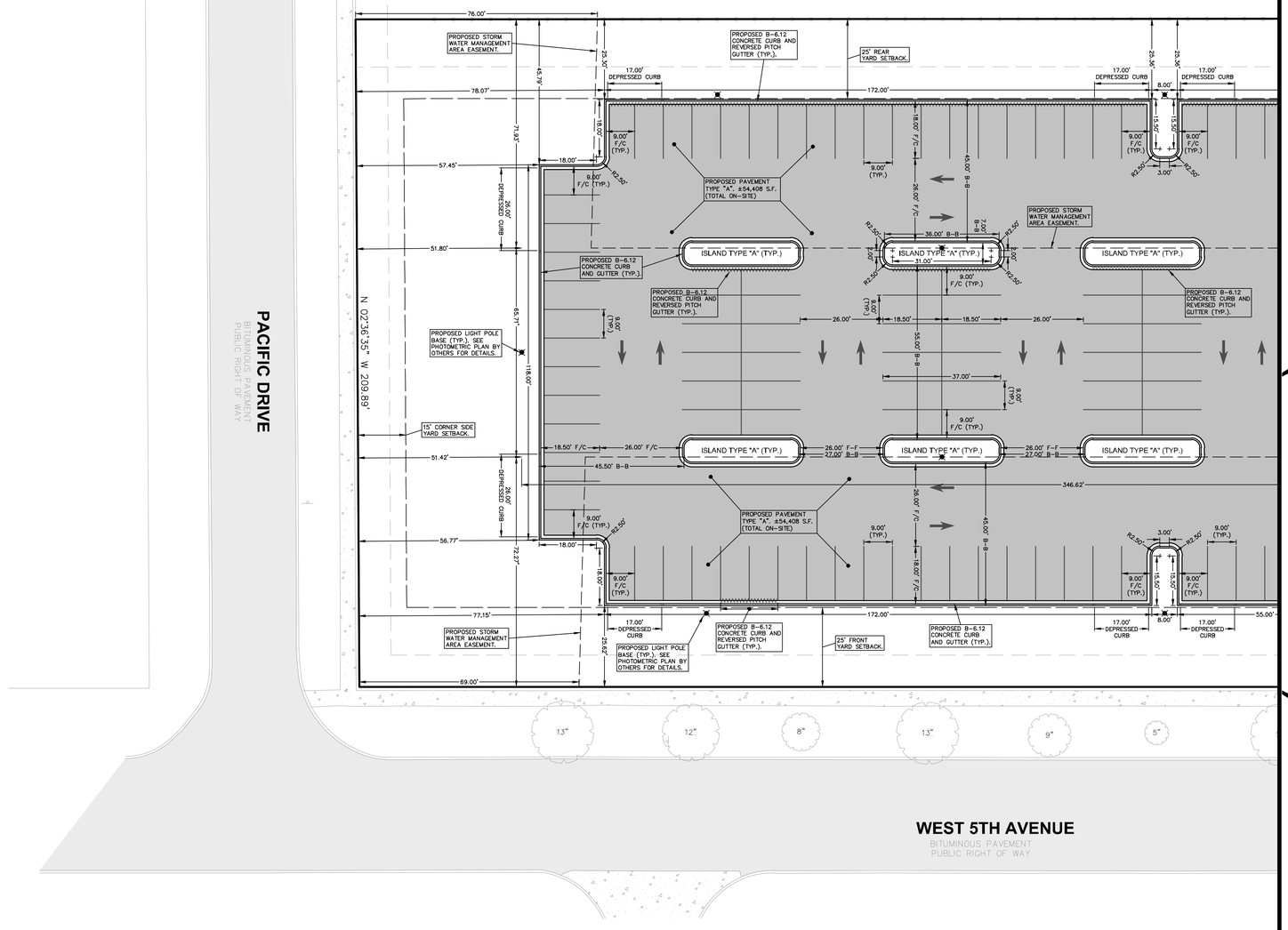
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OVERALL PROPOSED SITE GEOMETRY PLAN

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MATCHLINE A-A (SEE SHEET C5.2)

GRAPHIC SCALE
20 0 20
(IN FEET)
1 inch = 20 ft.

LEGEND
- EXISTING TREES (W/SIZE)
- EXISTING LIGHT
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FOR
NAPERVILLE COMMUNITY UNIT SCHOOL DISTRICT 203
NAPERVILLE, DUPAGE COUNTY, ILLINOIS

NO.	DATE	DESCRIPTION
1	01-23-2026	CITY OF NAPERVILLE COMMENTS
2	02-20-2026	CITY OF NAPERVILLE COMMENTS
3	03-23-2026	CITY OF NAPERVILLE COMMENTS
4	03-31-2026	CITY OF NAPERVILLE COMMENTS

REVISIONS

PROJ. NO. 5-2325-34
DRAWN BY R.P. @TWG Engineering
DATE 01-21-2026
SHEET NO. C5.1
OF 33

DETAILED PROPOSED SITE GEOMETRY PLAN (WEST)

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N:\Nap\2325\00\Engineering\Plans Sheet\C1 - Non Transportation Facility\C5.1 - Detailed Proposed Site Geometry Plan (W West Bay Layout).3/31/2026 2:15:54 PM RandyPeoples

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ELEVATION = 701.26

SITE BENCHMARK #2:
CUT SQUARE IN THE NORTHWEST CORNER OF CONCRETE PAD LOCATED ON THE SOUTH SIDE OF WEST 5TH AVENUE AND APPROXIMATELY 200' (FEET) WEST OF THE SOUTHEAST CORNER OF THE SUBJECT PARCEL.
ELEVATION = 698.48

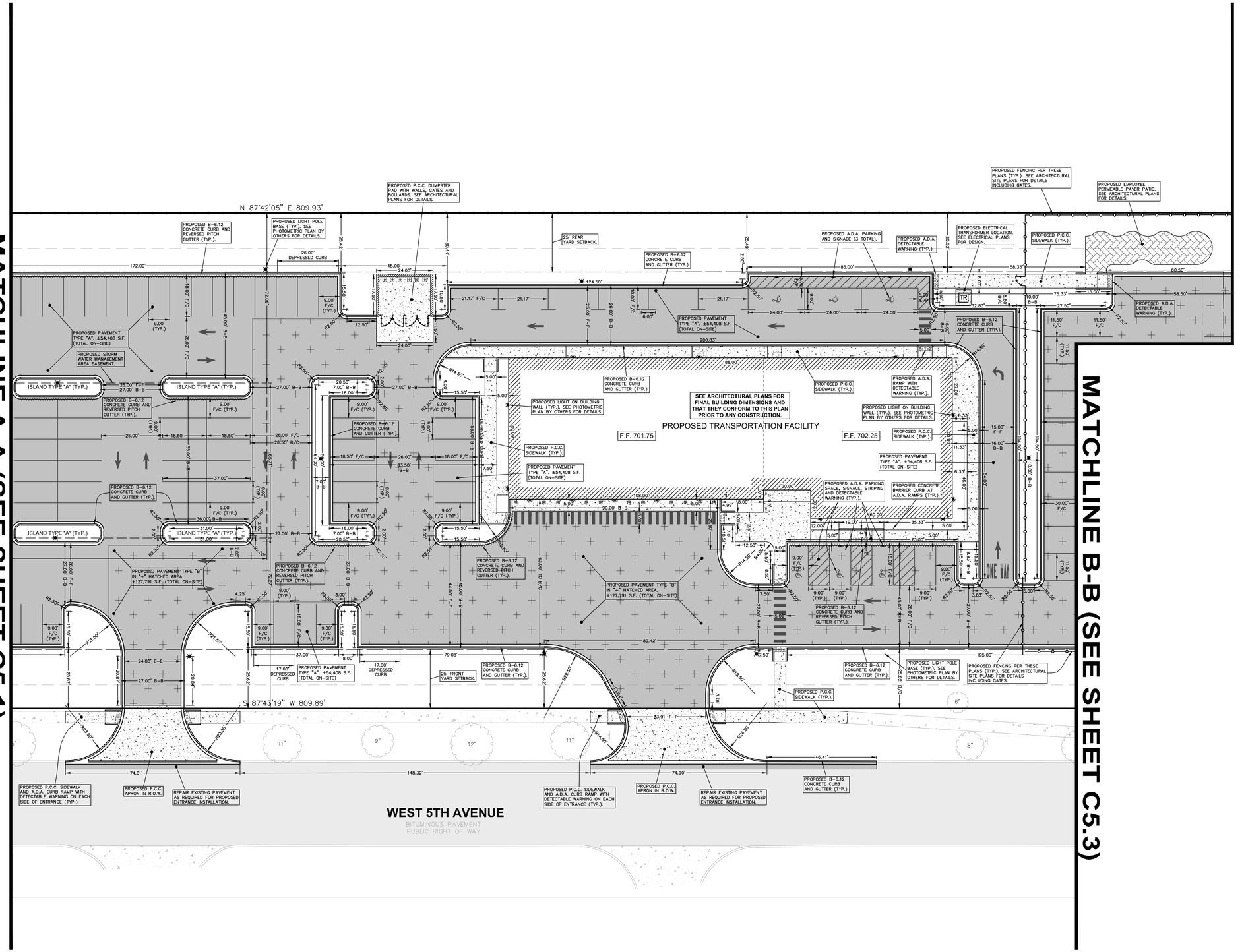
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4	3-31-2026	CITY OF NAPERVILLE COMMENTS	M.C.

TWG Dwg. No.: 325-0400-C1

CITY OF NAPERVILLE STAMPS



GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.

LEGEND

- EXISTING TREES (W/SIZE)
- EXISTING LIGHT
- EXISTING SIGN
- EXISTING FENCES
- EXISTING CURB
- EXISTING AREA OF CONCRETE
- EXISTING AREA OF BITUMINOUS PAVEMENT
- PROPOSED CURB
- PROPOSED CURB (REVERSED PITCH)
- PROPOSED AREA OF CONCRETE
- PROPOSED AREA OF BITUMINOUS PAVEMENT
- PROPOSED AREA OF HEAVY DUTY PAVEMENT
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PROPOSED SITE GEOMETRY PLAN NOTES:

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2.) ALL SIGNS SHALL MEET THE REQUIREMENTS AND STANDARDS OF THE U.S. DEPT. OF TRANSPORTATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION; THE ILLINOIS ADMINISTRATIVE CODE, LATEST ADDITION; AND ALL LOCAL ORDINANCES.

3.) UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE SHOWN TO THE BACK OF THE CURBLINE WHERE APPLICABLE.

4.) UNLESS OTHERWISE SPECIFIED, ALL CURBS SHALL BE B-6.12 CURB AND GUTTER.

5.) REFER TO PROPOSED SITE PHOTOMETRIC PLANS BY ELECTRICAL CONTRACTOR FOR SPECIFIC EXTERIOR BUILDING ILLUMINATION INCLUDING WALL MOUNTED LIGHTING.

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DETAILED PROPOSED SITE GEOMETRY PLAN (MIDDLE)

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ELEVATION = 701.26

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ELEVATION = 695.48

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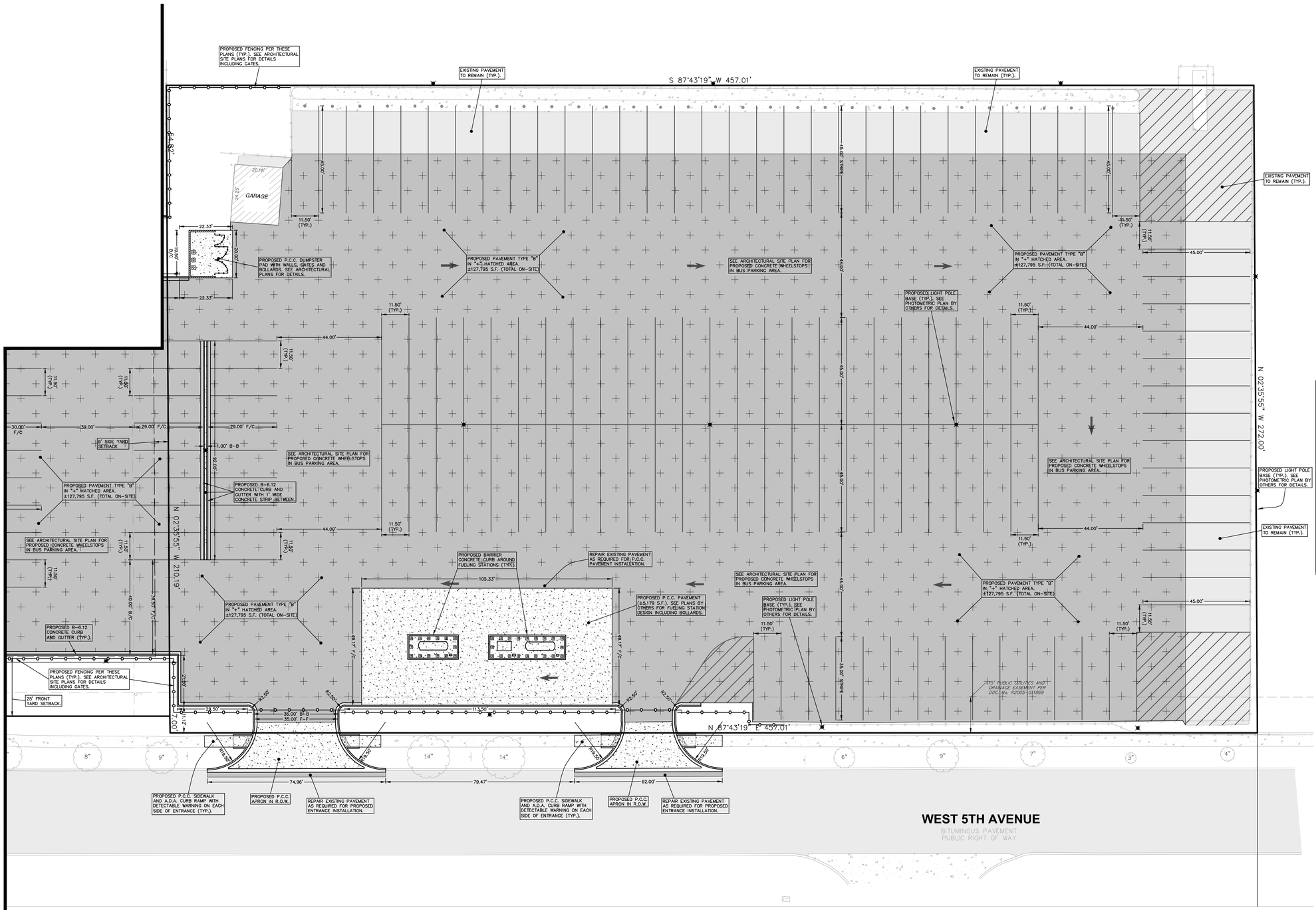
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TWG Dwg. No.: 325-0400-C1

CITY OF NAPERVILLE STAMPS

M:\Civil\2025\0400\Engineering\Site Sheet C1 New Transportation Facility\C5.2 - Detailed Proposed Site Geometry Plan 02 Middle.dwg, Layout1, 3/31/2026 2:16:11 PM, RandyPeoples



GRAPHIC SCALE
20 0 20
(IN FEET)
1 inch = 20 ft.

LEGEND

- EXISTING TREES (W/SIZE)
- EXISTING LIGHT
- EXISTING SIGN
- EXISTING FENCES
- EXISTING CURB
- EXISTING AREA OF CONCRETE
- EXISTING AREA OF BITUMINOUS PAVEMENT
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ELEVATION = 698.48

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CITY OF NAPERVILLE STAMPS

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PROJ. NO.
5-2325-34

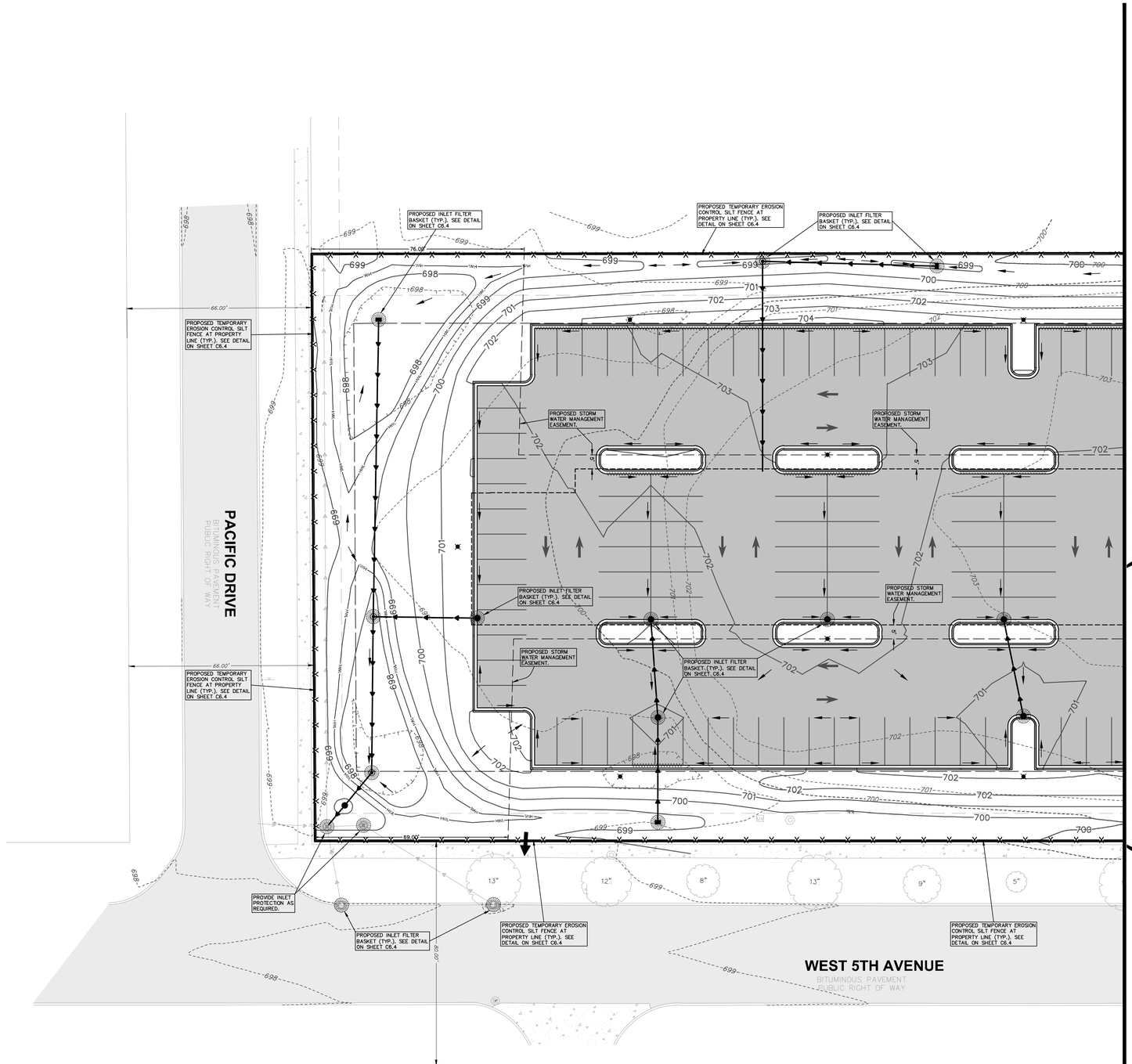
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SHEET NO.
C5.3
OF 33

DETAILED PROPOSED SITE GEOMETRY PLAN (EAST)

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GRAPHIC SCALE

20 0 20

(IN FEET)

1 inch = 20 ft.

LEGEND

- EXISTING ELEVATION
- EXISTING CONTOUR
- EXISTING SANITARY MANHOLE
- EXISTING SANITARY SEWER
- EXISTING SANITARY SEWER SERVICE
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING BUFFALO BOX (B-BOX)
- EXISTING WATER MAIN (SIZE NOTED)
- EXISTING WATER SERVICE
- EXISTING STORM SEWER
- EXISTING STORM SEWER STRUCTURE
- EXISTING CLEANOUT
- EXISTING UTILITY VAULT
- EXISTING UNDERGROUND ELECTRIC
- EXISTING UNDERGROUND TELEPHONE
- EXISTING GAS MAIN
- EXISTING TREES (W/SIZE)
- EXISTING LIGHT
- EXISTING SIGN
- EXISTING FENCES
- EXISTING CURB
- EXISTING AREA OF CONCRETE
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- PROPOSED AREA OF BITUMINOUS PAVEMENT
- PROPOSED FENCE
- PROPOSED MANHOLE (AS NOTED)
- PROPOSED STORM SEWER
- PROPOSED STORM INLET
- PROPOSED CATCHBASIN
- PROPOSED CLEANOUT
- PROPOSED DIRECTION OF OVERLAND FLOW
- PROPOSED EROSION CONTROL SILT FENCE
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DETAILED EROSION CONTROL PLAN (WEST)

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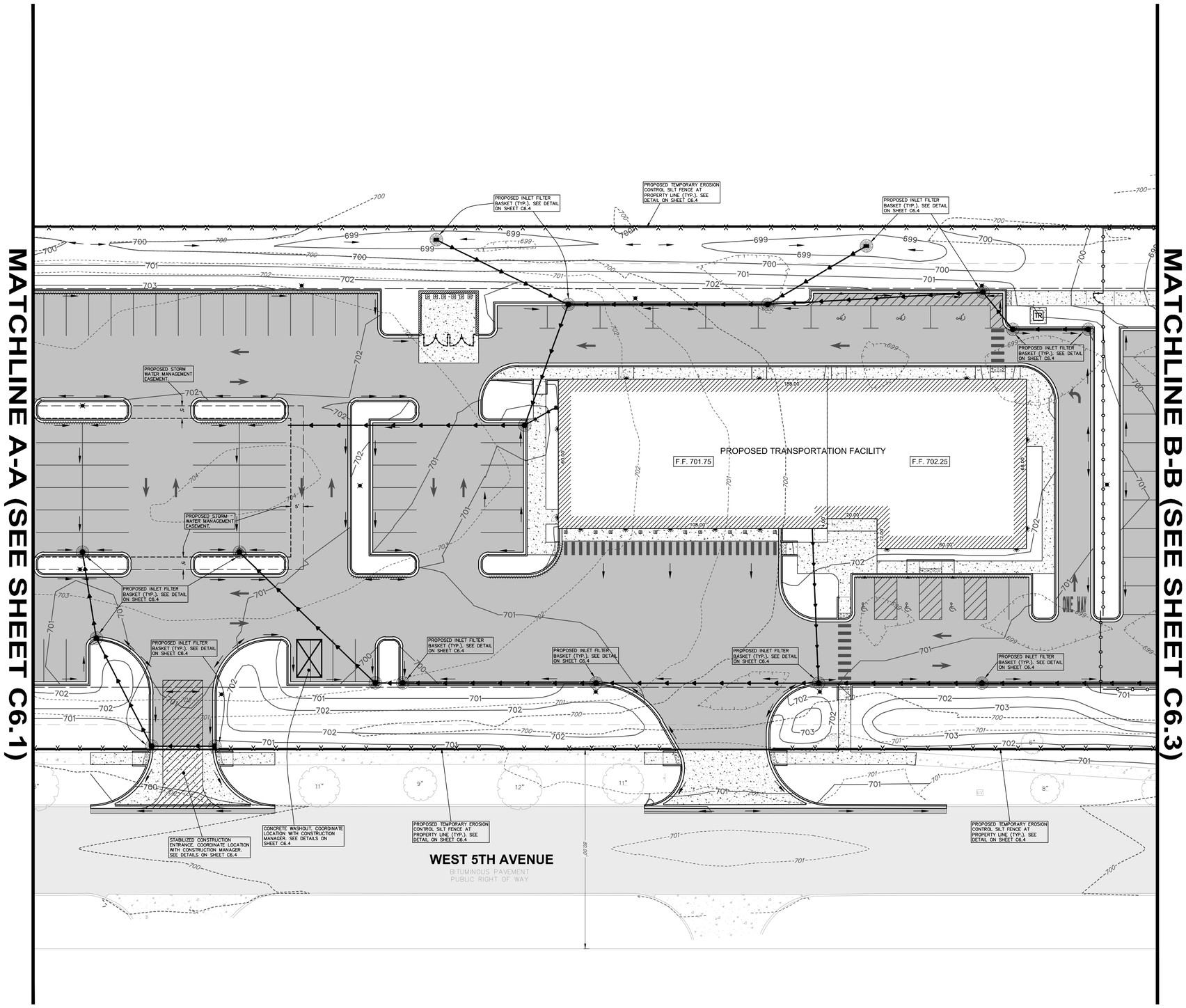
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ELEVATION = 698.48

SEE SHEET C6.4 FOR EROSION CONTROL NOTES AND DETAILS.

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				325-0400-C1

CITY OF NAPERVILLE STAMPS



GRAPHIC SCALE
20 0 20
(IN FEET)
1 inch = 20 ft.

LEGEND

- XXXXX — EXISTING ELEVATION
- XXX — EXISTING CONTOUR
- EXISTING SANITARY MANHOLE
- EXISTING SANITARY SEWER
- EXISTING SANITARY SEWER SERVICE
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
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DETAILED EROSION CONTROL PLAN (MIDDLE)

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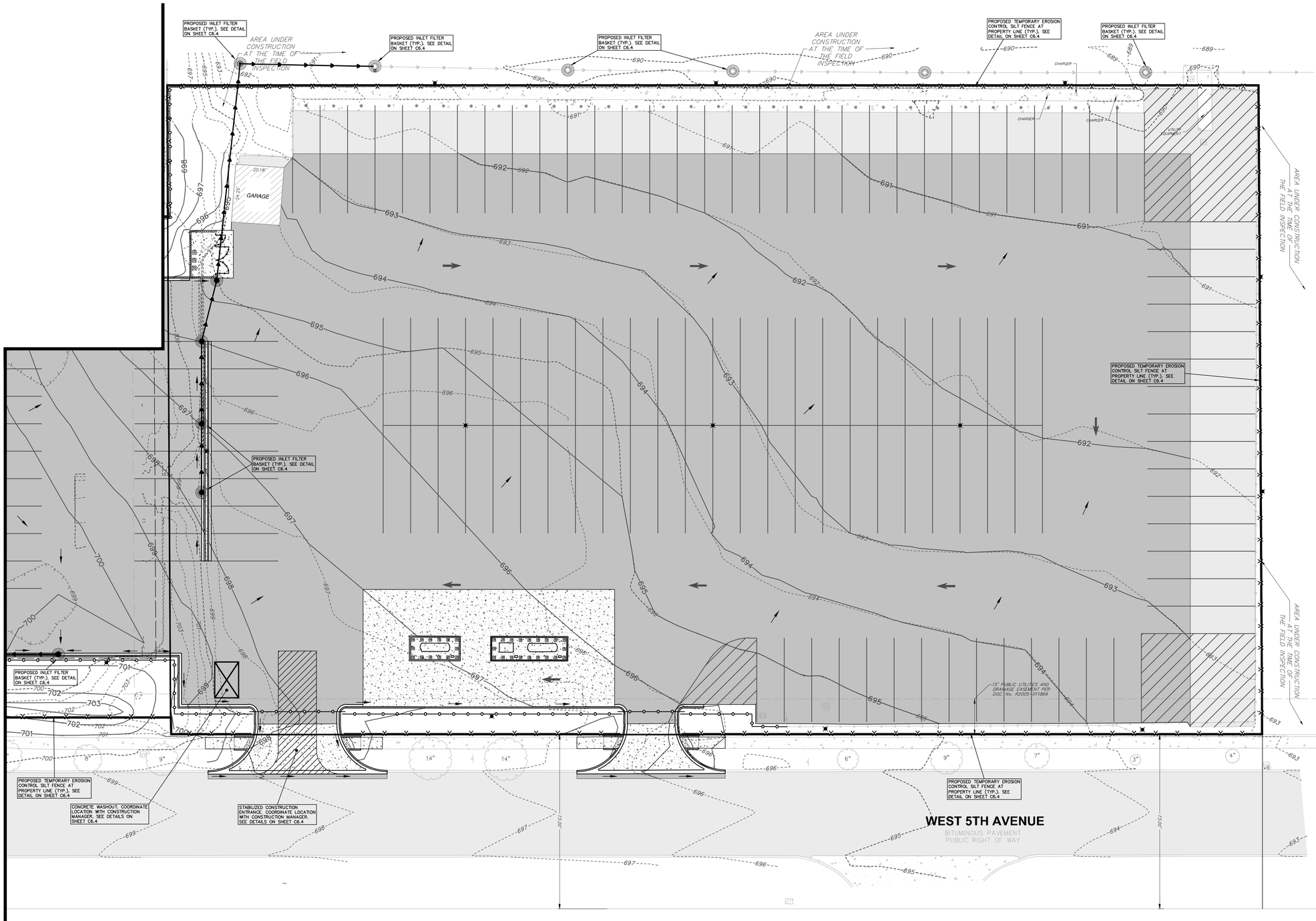
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CITY OF NAPERVILLE STAMPS



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PROJ. NO.
5-2325-34

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R.P. @TWG Engineering

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DETAILED EROSION CONTROL PLAN (EAST)

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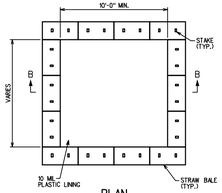
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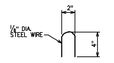
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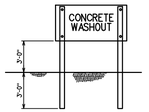


PLAN
NOT TO SCALE

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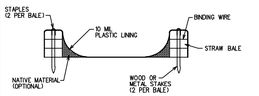


STAPLE DETAIL

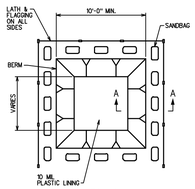


CONCRETE WASHOUT SIGN DETAIL
(OR EQUIVALENT)

NOTES:
1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 20 FT OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

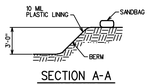


SECTION B-B
NOT TO SCALE

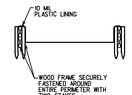


PLAN
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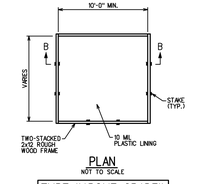
TYPE "BELOW GRADE"



SECTION A-A
NOT TO SCALE



SECTION B-B
NOT TO SCALE



PLAN
NOT TO SCALE

TYPE "ABOVE GRADE"

ONSITE TEMPORARY CONCRETE WASHOUT FACILITY, TRANSIT TRUCK WASHOUT PROCEDURES

1. TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE LOCATED A MINIMUM OF 50 FT. FROM STORM DRAIN INLETS OPEN DRAINAGE FACILITIES AND WATERCOURSES. EACH FACILITY SHOULD BE LOCATED AWAY FROM CONSTRUCTION TRAFFIC OR ACCESS AREAS TO PREVENT DISTURBANCE OR TRACKING.
2. A SIGN SHOULD BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES.
3. TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE CONSTRUCTED ABOVE GRADE OR BELOW GRADE AT THE OPTION OF THE CONTRACTOR. TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
4. TEMPORARY WASHOUT FACILITIES SHOULD HAVE A TEMPORARY PIT OR BERMED AREAS OF SUFFICIENT VOLUME TO COMPLETELY CONTAIN ALL LIQUID AND WASTE CONCRETE MATERIALS GENERATED DURING WASHOUT PROCEDURES.
5. WASHOUT OF CONCRETE TRUCKS SHOULD BE PERFORMED IN DESIGNATED AREAS ONLY.
6. ONLY CONCRETE FROM MIXER TRUCK CHUTES SHOULD BE WASHED INTO CONCRETE WASH OUT.
7. CONCRETE WASHOUT FROM CONCRETE PUMPER BINS CAN BE WASHED INTO CONCRETE PUMPER TRUCKS AND DISCHARGED INTO DESIGNATED WASHOUT AREA OR PROPERLY DISPOSED OF OFFSITE.
8. ONCE CONCRETE WASTES ARE WASHED INTO THE DESIGNATED AREA AND ALLOWED TO HARDEN, THE CONCRETE SHOULD BE BROKEN UP, REMOVED, AND DISPOSED OF OFFSITE IN A LEGAL MANNER. DISPOSE OF HARDENED CONCRETE ON A REGULAR BASIS.
9. TEMPORARY CONCRETE WASHOUT FACILITY (TYPE ABOVE GRADE)
   A. TEMPORARY WASHOUT FACILITY (TYPE ABOVE GRADE) SHOULD BE CONSTRUCTED AS SHOWN IN THE DETAILS ON THIS SHEET, WITH A RECOMMENDED MINIMUM LENGTH AND MINIMUM WIDTH OF 10 FT, BUT WITH SUFFICIENT QUANTITY AND VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
   B. STRAW BALES, WOOD STAKES, AND SANDBAG MATERIALS SHOULD CONFORM TO THE PROVISIONS IN THE EROSION AND SEDIMENT CONTROL PLAN.
   C. PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
10. TEMPORARY CONCRETE WASHOUT FACILITY (TYPE BELOW GRADE)
   A. TEMPORARY WASHOUT FACILITY (TYPE BELOW GRADE) SHOULD BE CONSTRUCTED AS SHOWN IN THE DETAILS ON THIS SHEET, WITH A RECOMMENDED MINIMUM LENGTH AND MINIMUM WIDTH OF 10 FT, BUT WITH SUFFICIENT QUANTITY AND VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
   B. LATH AND FLAGGING SHOULD BE COMMERCIAL TYPE.
   C. PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MIL, POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.

REMOVAL OF TEMPORARY CONCRETE WASHOUT FACILITIES

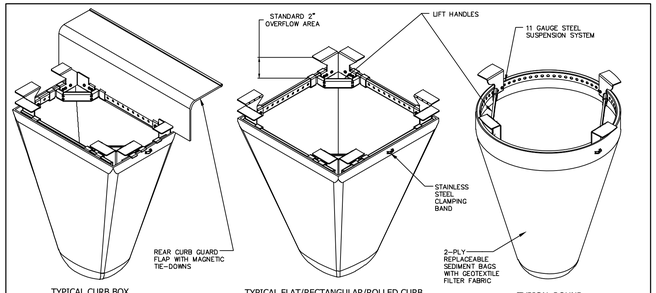
1. WHEN TEMPORARY CONCRETE WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE SHOULD BE REMOVED AND DISPOSED OF. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF.
2. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE BACKFILLED AND REPAIRED.

INSPECTION AND MAINTENANCE

1. INSPECT AND VERIFY THAT ACTIVITY-BASED BMPS ARE IN PLACE PRIOR TO THE COMMENCEMENT OF ASSOCIATED ACTIVITIES. WHEN ACTIVITIES ASSOCIATED WITH THE BMP ARE UNDER WAY, INSPECT WEEKLY DURING THE RAINY SEASON AND AT TWO WEEK INTERVALS IN THE NON-RAINY SEASON TO VERIFY CONTINUED BMP IMPLEMENTATION.
2. TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE MAINTAINED TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM FREEBOARD OF 4 IN. FOR ABOVE GRADE FACILITIES AND 12 IN. FOR BELOW GRADE FACILITIES. MAINTAINING TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD INCLUDE REMOVING AND DISPOSING OF HARDENED CONCRETE AND RETURNING THE FACILITIES TO A FUNCTIONAL CONDITION HARDENED CONCRETE MATERIALS SHOULD BE REMOVED AND DISPOSED OF.
3. WASHOUT FACILITIES MUST BE CLEANED, OR NEW FACILITIES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL.

CONCRETE WASHOUT DETAIL

NOT TO SCALE



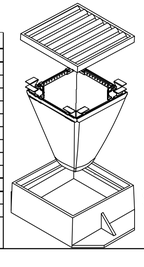
TYPICAL CURB BOX INLET FILTER

TYPICAL FLAT/RECTANGULAR/ROLLED CURB INLET FILTER

TYPICAL ROUND INLET FILTER

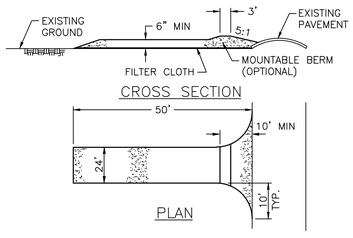
IDOT Inlet Filter Specifications

Material Property	Test Method	Value (min ave)
> NonWoven Geotextile Inner Filter Bag Spec (2 ft² min val)		
Grab Tensile	ASTM D 4632	100 lbs
Puncture Strength	ASTM D 4833	65 lbs
Trapezoidal Tear	ASTM D 4533	45 lbs
UV Resistance	ASTM D 4355	70% at 500 hrs
App Open Size (AOS)	ASTM D 4751	70 sieve (.212 mm)
Permittivity	ASTM D 4491	2.0/sec
Water Flow Rate	ASTM D 4491	145 gpm/sqft
> Polyester Outer Reinforcement Bag Specifications		
Weight	ASTM D 3776	8.55 oz/sqyd +/- 15%
Thickness	ASTM D 1777	.040 +/- .005
> Frame Construction		
A36 Structural Steel; 11 Guage; Zinc Plated	ASTM A 576	Tensile Strength > 58,000 psi Yield Strength > 36,000 psi



INSTALLATION:
1.) REMOVE GRATE.
2.) DROP FLEXSTORM INLET FILTER ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE.
3.) REPLACE GRATE.

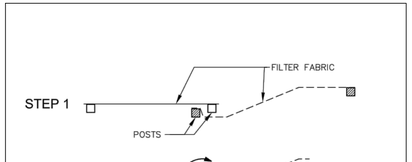
OPEN GRATE STORM STRUCTURE INLET FILTER BASKET DETAIL
NOT TO SCALE

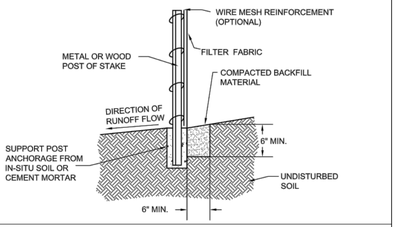


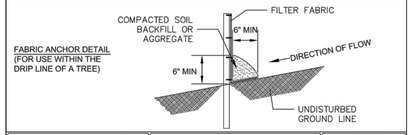
1.) STONE SHALL BE TWO INCH IN SIZE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2.) LENGTH SHALL BE AS REQUIRED, BUT NOT LESS THAN 50 FEET.
3.) THICKNESS SHALL NOT BE LESS THAN SIX INCHES.
4.) WIDTH SHALL BE TEN FEET, MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS OF INGRESS/EGRESS.
5.) FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO THE PLACEMENT OF STONE.
6.) SURFACE WATER FLOWING OR DIVERTED TOWARD ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7.) THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8.) WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9.) PERIODIC INSPECTION AND REQUIRED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN EVENT.

STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

Call Before You Dig
JULIE
ILLINOIS ONE-CALL SYSTEM
CONTACT J.U.L.I.E. at 811 or 800-892-0123
48 Hours (2 Working Days) BEFORE YOU DIG.
Include the following:
County, City/Township, Section & 1/4 Section No.





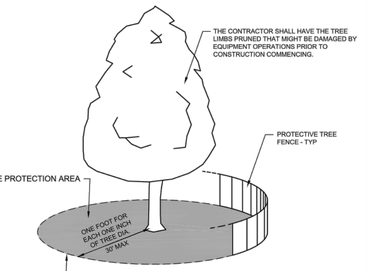


City of Naperville STANDARD DETAIL	TEMPORARY EROSION CONTROL MEASURE - SILT FENCE	LANDSCAPE 3
	REVISED: 01/01/2013 — SHEET 1 OF 2	790.03

STEPS FOR THE ATTACHMENT OF TWO SILT FENCES:
1. PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE.
2. ROTATE BOTH POSTS AT LEAST 180 DEGREESIN A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL.
3. DRIVE BOTH POSTS A MINIMUM OF 18 INCHES INTO THE GROUND AND BURY THE FLAP.

NOTES:
1. TEMPORARY SILT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. THEY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.
2. FILTER FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION 592 GEOTEXTILE TABLE 1 OR 2, CLASS I WITH EQUIVALENT OPENING SIZE OF AT LEAST 30 FOR NON-WOVEN OR 50 FOR WOVEN.
3. FENCE POSTS SHALL BE EITHER STANDARD STEEL POST OR WOOD POST WITH A MINIMUM CROSS-SECTIONAL AREA OF 3.0 SQ. IN.
4. DEPENDING UPON THE CONFIGURATION, ATTACH FABRIC AND WIRE MESH WITH HOG RINGS, STEEL POST WITH TIE WIRES, WOOD POST WITH NAILS.

City of Naperville STANDARD DETAIL	TEMPORARY EROSION CONTROL MEASURE - SILT FENCE	LANDSCAPE 3
	REVISED: 01/01/2013 — SHEET 2 OF 2	790.03



NOTES:
1. A TREE PROTECTION AREA SHALL BE ESTABLISHED AROUND A TREE A DISTANCE OF ONE FOOT FOR EACH ONE INCH OF TREE DIAMETER, UP TO A MAXIMUM OF 30 FEET.
2. PROTECTIVE TREE FENCE SHALL BE INSTALLED AT THE LIMITS OF THE TREE PROTECTION AREA. THE FENCE SHALL BE HIGH ENOUGH SO AS TO BE VISIBLE TO ALL CONSTRUCTION PERSONNEL.
3. GRADE CHANGES, UTILITY TRENCHES, STORAGE OF CONSTRUCTION MATERIAL, DUMPING OF WASTE, OR OPERATION OR STORAGE OF ANY EQUIPMENT SHALL NOT BE ALLOWED WITHIN THE TREE PROTECTION AREA.
4. AUGURING IS REQUIRED IF A UTILITY MUST BE INSTALLED WITHIN THE TREE PROTECTION AREA. AUGURED UTILITIES MUST BE A MINIMUM OF 24 INCHES BELOW GRADE.
5. ALL TREES TO BE SAVED WHICH HAVE BEEN SUBJECTED TO CONSTRUCTION ACTIVITY WITHIN THE TREE PROTECTION AREA SHOULD BE SELECTIVELY THINNED 10% BY AN ARBORIST SKILLED AT THE SELECTIVE THINNING PROCEDURE. NONE OF THE TREES SHALL BE TOPPED, HEADED BACK, SKINNED (REMOVAL OF THE INTERIOR BRANCHES), OR CLIMBED WITH SPIKES. ALL DEAD WOOD SHOULD BE REMOVED TO AVOID HAZARD.
6. IT IS RECOMMENDED THAT FOLLOWING CONSTRUCTION, TREES BE MAINTAINED IN THEIR NATIVE CONDITION. NO LAWN SHOULD BE PLACED AROUND THE TREES. IT IS RECOMMENDED THAT THE AREA BE MULCHED WITH 2 INCHES OF DECOMPOSED LEAVES AND 2 INCHES OF WOOD CHIPS OR BARK.

City of Naperville STANDARD DETAIL	TREE PROTECTION	LANDSCAPE 10
	REVISED: 08/01/2018 — SHEET 1 OF 1	790.10

Erosion Control and Drainage Notes (General)
The Erosion Control and Drainage Notes in this section should be included in all final engineering plans regardless of the type of work in the project.

1	THE CONTRACTOR SHALL MAINTAIN PROPER DRAINAGE AT ALL TIMES DURING THE COURSE OF CONSTRUCTION AND PREVENT STORM WATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS.
2	DURING EXTENDED DRY PERIODS, THE CONSTRUCTION AREA(S) MAY NEED TO BE WATERED DOWN TO PREVENT THE BLOWING OF SOIL FROM THE SITE.
3	DURING CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE UTILIZED TO MINIMIZE THE TRACKING OF DIRT ONTO THE PUBLIC STREETS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO KEEP PUBLIC STREET PAVEMENT CLEAN OF DIRT AND DEBRIS. ANY DIRT THAT IS TRACKED ONTO THE PUBLIC STREETS SHALL BE REMOVED THE SAME DAY. IF THE AMOUNT TRACKED ON THE PUBLIC STREET IS EXCESSIVE, CLEANING MAY BE REQUIRED MORE FREQUENTLY.

Erosion Control and Drainage Notes (Project Specific)
The Erosion Control and Drainage Notes in this section are intended to be included when a project includes erosion control work as part of the project. The Consultant should review the following Notes to determine if they are applicable to the work being completed.

1	ALL EROSION CONTROL MEASURES SHALL BE PROPERLY INSTALLED, AS PERMITTED, PRIOR TO ANY LAND DISTURBANCE ACTIVITIES. ALL EROSION CONTROL SHALL BE MAINTAINED UNTIL TURF IS ESTABLISHED.
2	ACCEPTABLE PERIMETER EROSION CONTROL INCLUDES SILT FENCE, SILT WORM AND ANY OTHER APPLICATION APPROVED BY THE CITY ENGINEER.
3	ALL OPEN GRATE STRUCTURES SHALL HAVE EROSION CONTROL PROTECTION IN ACCORDANCE WITH THE APPROVED EROSION CONTROL PLANS. STRAW BALES SHALL NOT BE USED.
4	STOCKPILES NOT BEING DISTURBED FOR MORE THAN 14 DAYS SHALL BE SEEDED.
5	ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY, AFTER ANY 0.5 INCH OR GREATER RAINFALL, OR MORE FREQUENTLY AS NECESSARY TO MAINTAIN THEIR FUNCTION.

Erosion Control and Drainage Notes (NPDES Permit)
The Erosion Control and Drainage Note in this section should be included if the project requires an NPDES permit.

1	IT IS THE RESPONSIBILITY OF THE OWNER OR HIS DESIGNEE TO INSPECT ALL TEMPORARY EROSION CONTROL MEASURES PER THE REQUIREMENTS OF THE NPDES PERMIT AND CORRECT ANY DEFICIENCIES AS NEEDED.

EROSION CONTROL NOTES

1. EROSION CONTROL TO BE APPLIED PER THE ILLINOIS PROCEDURES FOR URBAN SOIL EROSION AND SEDIMENTATION CONTROL MANUAL, LATEST EDITION.
2. THE TEMPORARY EROSION CONTROL SYSTEMS INSTALLED BY THE CONTRACTOR SHALL BE PROPERLY MAINTAINED AS DIRECTED BY THE VILLAGE TO CONTROL SILTATION AT ALL TIMES DURING THE LIFE OF THE PROJECT.
3. ALL STORM SEWER STRUCTURES WITH OPEN GRATES SHALL HAVE INLET FILTER BASKETS INSTALLED IN THEM.
4. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN (7) SEVEN CALENDAR DAYS FOLLOWING THE END OF ACTIVE DISTURBANCE, RE-DISTURBANCE, CONSISTENT WITH THE FOLLOWING CRITERIA. APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION MEASURES SHALL INCLUDE SEEDING, MULCHING, SODDING AND / OR NON-VEGETATIVE MEASURES.
5. ALL EROSION CONTROL ITEMS REMAIN IN PLACE AND BE MAINTAINED UNTIL DEEMED UNNECESSARY BY THE OWNER / DEVELOPER AND THE VILLAGE AT WHICH TIME THE EROSION CONTROL ITEMS SHALL BE COMPLETELY REMOVED FROM THE SITE BY THE INSTALLER.
6. ALL DISTURBED AREAS NOT SPECIFICALLY IDENTIFIED FOR LANDSCAPING IMPROVEMENTS OR IMPERVIOUS SURFACE TREATMENTS SUCH AS PAVEMENTS, DRIVES, PATIOS, STOOPS, SIDEWALKS OR WALKWAYS SHALL BE FINISHED WITH A MINIMUM OF 6" OF TOPSOIL AND RESTORED IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2002 AS FOLLOWS:
   - CLASS 2 SEED PER SECTION 250.
   - FERTILIZED NUTRIENTS IN THE RATIO OF 1:1:1 OF NITROGEN, PHOSPHOROUS AND POTASSIUM EACH, ALL AT THE RATE OF 60 LBS/ACRE IN ACCORDANCE WITH SECTION 250.
   - METHOD 2 MULCH PER SECTION 251.
   - CONTRACTOR SHALL MAINTAIN RESTORED AREA AS NEEDED UNTIL GERMINATION IS COMPLETED AND THE OWNER, OR LOCAL AGENCY HAVING JURISDICTION, HAS ACCEPTED THE WORK.
7. FOR EACH PHASE OF WORK, THE CONTRACTOR RESPONSIBLE FOR THAT WORK IS TO PROVIDE QUALIFIED PERSONNEL WHO SHALL INSPECT:
   - DISTURBED AREAS OF THE CONSTRUCTION SITE WHICH HAVE NOT BEEN STABILIZED WITH IMPERVIOUS MATERIALS OR VEGETATIVE GROUND COVER.
   - STRUCTURAL CONTROL MEASURES (I.E. SILT FENCE, INLET FILTER BASKETS, ETC.).
   - OFF SITE ROADS AND ON SITE PAVEMENTS WHICH THE CONTRACTOR'S VEHICLES AND OR EQUIPMENT OPERATE.

   SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT THAT HAS 0.5 INCHES OR MORE OF PRECIPITATION.

   ALL INSPECTIONS SHALL BE IN CONFORMANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN INSPECTION REQUIREMENTS.
8. ANY STOCKPILE OF TOPSOIL MAINTAINED ON SITE SHALL BE STABILIZED WITH A VEGETATION ACCORDING TO NOTE 4 ABOVE. STOCKPILE SHALL BE SURROUNDED WITH SILT FENCE.
9. NOTICE OF INTENT (NOI) FOR NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEMS (NPDES) GENERAL PERMIT NO. ILR10 SHALL BE FILED WITH THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY BY THE OWNER AND/OR CONTRACTOR.

   GENERAL DUST CONTROL IS REQUIRED ON SITE AT ALL TIMES WHEN WORK IS UNDER WAY. FREQUENT APPLICATION OF WATER IS NEEDED TO SUFFICIENTLY CONTROL DUST DURING CONSTRUCTION. WATER APPLICATION IN ADVANCE OF SOIL WORK AND DURING OFF HOURS IS RECOMMENDED TO ALLOW FOR SOAKING.

EROSION CONTROL MEASURES AND MAINTENANCE

1. EROSION CONTROL SILT FENCE SHALL BE REPAIRED AND/OR SILTATION REMOVED WHEN SILTATION HAS REACHED A DEPTH EQUAL TO HALF THE HEIGHT OF THE FENCING.
2. INLET FILTER BASKETS SHALL BE REMOVED AND CLEANED/REPLACED WHEN SILTATION HAS REACHED PRODUCT SPECIFICATION CAPACITY.

APPROXIMATE EROSION CONTROL MAINTENANCE SCHEDULE

ACTIVITY/TASK	BEGINNING DATE
INSTALLATION OF SILT FENCING, INLET FILTER BASKETS	APRIL 2026
CLEARING WILL BEGIN	APRIL 2026
TEMPORARY SOIL STABILIZATION MEASURES	APRIL 2026
CONSTRUCT BUILDINGS	APRIL 2026 – OCTOBER 2026
UTILITY CONSTRUCTION	MAY 2026
PAVING OF PARKING LOT/CURB	OCTOBER 2026
FINAL GRADING / ESTABLISHMENT OF PERMANENT VEGETATIVE COVER/LANDSCAPING	OCTOBER 2026
REMOVAL OF TEMPORARY MEASURES	OCTOBER 2026
PROJECT COMPLETION	NOVEMBER 2026

SEE SHEET C6.1-C6.3 FOR EROSION CONTROL PLAN.

THE WILL GROUP ENGINEERING
Main Address: 129 Capista Drive, Shorewood, IL 60404 | Phone: 815-744-6600
Invoicing: 401 S. Carlton Avenue, Wheaton, IL 60187 | www.thewillgroup.com

DATE CREATED: 10-07-2025	LATEST TWG ENGINEERING REVISION			TWG Dwg. No.:
FIELD BK: BY OTHERS	No.	DATE	DESCRIPTION	BY	325-0400-C1
PAGE: N/A	4	3-31-2026	CITY OF NAPERVILLE COMMENTS	M.C.	
DRAWN BY: R.P.					

CITY OF NAPERVILLE STAMPS

HEALY BENDER PATTON & BEEN
ARCHITECTS
4040 Helene Avenue
Naperville, IL 60564
T 630.904.4300
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NEW TRANSPORTATION FACILITY
NAPERVILLE COMMUNITY UNIT SCHOOL DISTRICT 203
NAPERVILLE, ILLINOIS
FOR
NAPERVILLE COMMUNITY UNIT SCHOOL DISTRICT 203
NAPERVILLE, DUPAGE COUNTY, ILLINOIS

REVISIONS NO.	DATE	DESCRIPTION
1	01-23-2026	CITY OF NAPERVILLE COMMENTS
2	02-20-2026	CITY OF NAPERVILLE COMMENTS
3	03-23-2026	CITY OF NAPERVILLE COMMENTS
4	03-31-2026	CITY OF NAPERVILLE COMMENTS

PROJ. NO. 5-2325-34
DRAWN BY R.P. @TWG Engineering
DATE 01-21-2026
SHEET NO. C6.4
OF 33

EROSION CONTROL NOTES AND DETAILS

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N:\Tasks\2025\2025400\Engineering\Plan Sheets\C1 - New Transportation Facility\C6.4 - Erosion Control Notes and Details.dwg, Layout: 3, 3/31/2026 5:17:28 PM, RandyPeoples

Transportation, Engineering and Development Business Group
Standard Construction Plan Notes for Development Projects
AUGUST 2023

The City of Naperville Transportation, Engineering and Development (TED) Business Group has established Standard Notes, which should be included in the final engineering plans for private development projects. The Standard Notes are broken out by type of work. The Consultant designing the final engineering plans should review the lists below to determine which Standard Notes should be included.

Please note that the City of Naperville Department of Public Utilities – Water/Wastewater (DPU-W) has their own Standard Notes they require for water and sanitary sewer work in private development final engineering plans. Please contact DPU-W for the Water/Wastewater Standard Notes.

General Notes
The General Notes in this section should be included in all final engineering plans regardless of the type of project.

1	THE OWNER OR THEIR REPRESENTATIVE IS RESPONSIBLE TO OBTAIN ANY AND ALL PERMITS REQUIRED BY APPLICABLE GOVERNMENTAL AGENCIES.
2	ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF NAPERVILLE DESIGN MANUAL AND STANDARD SPECIFICATIONS (CURRENT EDITION) AND WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (CURRENT EDITION).
3	ALL CONTRACTORS DOING WORK IN THE PUBLIC RIGHT-OF-WAY MUST BE LICENSED (WHEN APPLICABLE) TO MAKE PUBLIC IMPROVEMENTS WITHIN THE NAPERVILLE CORPORATE LIMITS.
4	THE CONTRACTOR/DEVELOPER ASSUMES ALL RESPONSIBILITY AND LIABILITY FOR ANY ACTION RESULTING FROM THEIR WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
5	THE CONTRACTOR/DEVELOPER SHALL INDEMNIFY AND HOLD HARMLESS THE CITY OF NAPERVILLE.
6	PRIOR TO COMMENCEMENT OF ANY OFF-SITE CONSTRUCTION, THE CONTRACTOR SHALL SECURE WRITTEN AUTHORIZATION THAT ALL OFF-SITE EASEMENTS HAVE BEEN SECURED AND THAT PERMISSION HAS BEEN GRANTED TO ENTER ONTO PRIVATE PROPERTY.
7	THE CONTRACTOR AND THEIR ON-SITE REPRESENTATIVES WILL BE REQUIRED TO ATTEND A PRE-CONSTRUCTION MEETING WITH THE CITY OF NAPERVILLE PRIOR TO ANY WORK BEING STARTED. A PRE-CONSTRUCTION MEETING WILL NOT BE SCHEDULED UNTIL THE PROJECT HAS BEEN APPROVED BY THE CITY OF NAPERVILLE DEVELOPMENT REVIEW TEAM AND THE REQUIRED SURETY HAS BEEN POSTED.
8	A MINIMUM OF 48 HOURS NOTICE SHALL BE GIVEN TO THE CITY OF NAPERVILLE TED BUSINESS GROUP (630-420-6100 OPTION 1) PRIOR TO STARTING WORK OR RESTARTING WORK AFTER SOME ABSENCE OF WORK FOR ANY REASON.

9	IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ADEQUATELY IDENTIFY AND LOCATE ALL EXISTING UTILITIES PRIOR TO EXCAVATION. BEFORE STARTING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT JULIE FOR THE LOCATION OF ANY AND ALL UTILITIES. THE TOLL-FREE NUMBER IS 800-892-0123. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ANY PRIVATE FACILITIES OR NON-JULIE MEMBER FACILITIES.
10	THE CONTRACTOR CAN SCHEDULE ALL NECESSARY SITE INSPECTIONS WITH THE CITY OF NAPERVILLE BY CALLING (630) 420-6100 OPTION 1 BETWEEN THE HOURS OF 8:00AM AND 4:00PM (CLOSED 1:00PM TO 2:00PM DAILY) ON WEEKDAYS WHEN THE CITY IS OPEN FOR BUSINESS. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE THE SITE PERMIT NUMBER FOR THE PROJECT IN ORDER TO SCHEDULE THE INSPECTION(S).
11	RECORD DRAWINGS ARE REQUIRED TO BE SUBMITTED AND APPROVED BY THE CITY OF NAPERVILLE PRIOR TO FINAL OCCUPANCY BEING GRANTED.
12	FINAL ACCEPTANCE OF PUBLIC IMPROVEMENTS SHALL BE GRANTED ONLY AFTER A FINAL INSPECTION HAS BEEN COMPLETED AND HAS REVEALED THAT ALL IMPROVEMENTS HAVE BEEN SATISFACTORILY COMPLETED IN ACCORDANCE WITH THE NAPERVILLE STANDARD SPECIFICATIONS. UTILITIES ARE NOT CONSIDERED ACCEPTED UNTIL THEY ARE FORMALLY ACCEPTED BY THE CITY COUNCIL AS REQUIRED IN ACCORDANCE WITH THE NAPERVILLE MUNICIPAL CODE.

General Notes (Project Specific)
The Consultant should review the following General Notes to determine if they are applicable to the work to be completed with the project. Those Notes that are applicable should be included in the engineering plans.

1	TRAFFIC SIGNALS AND THEIR ASSOCIATED EQUIPMENT UNDER THE JURISDICTION OF DUPAGE COUNTY ARE NOT INCLUDED IN THE JULIE SYSTEM. THE CONTRACTOR SHALL CONTACT DUPAGE COUNTY DOT AND IDOT DIRECTLY REGARDING THE LOCATION OF TRAFFIC SIGNALS (CABLING AND ASSOCIATED SYSTEMS) UNDER DUPAGE COUNTY OR IDOT JURISDICTION.

1c	DUCTILE IRON PIPE (DIP) - DUCTILE IRON PIPE SHALL CONFORM TO ANSI A 21.51 (AWWA C-151), CLASS THICKNESS DESIGNED PER ANSI A 21.50 (AWWA C-150), TAR (SEAL) COATED AND CEMENT LINED PER ANSI A 21.4 (AWWA C-104), WITH MECHANICAL OR RUBBER RING (SLIP SEAL OR PUSH ON) JOINTS. ALL DUCTILE IRON PIPE SHALL BE WRAPPED WITH POLYETHYLENE.
1d	POLYVINYL CHLORIDE PIPE (PVC) - POLYVINYL CHLORIDE (PVC) PIPE SHALL CONFORM TO ASTM D 3034, TYPE PSM. THE MINIMUM STANDARD DIMENSION RATIO (SDR) SHALL BE 26. THE PIPE SHALL BE MADE OF PVC PLASTIC HAVING A MINIMUM CELL CLASSIFICATION OF 12454-C AND SHALL HAVE A MINIMUM PIPE STIFFNESS OF FORTY-SIX (46) LBS. PER INCH (317 KPA). JOINTS FOR PVC PIPE SHALL BE FLEXIBLE ELASTOMETRIC SEALS PER ASTM D 3212.
1e	HIGH DENSITY POLYETHELYNE PIPE (HDPE) - HIGH-DENSITY POLYETHYLENE (HDPE) PIPE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 252 AND M 294. PIPE AND FITTINGS SHALL BE MADE FROM VIRGIN PE COMPOUNDS WHICH CONFORM TO THE REQUIREMENTS OF CELL CLASS 324420C AS DEFINED AND DESCRIBED IN ASTM D 3350. RUBBER GASKET JOINTS SHALL BE USED.
1f	FULLY GALVANIZED CORRUGATED STEEL PIPE - FULLY GALVANIZED CORRUGATED STEEL PIPE MAY BE USED FOR RESIDENTIAL DRIVEWAY CROSSINGS ONLY WHEN A DITCH SECTION IS PRESENT. THE MINIMUM CULVERT SIZE IS 12" DIAMETER.
2	BEDDING, OTHER THAN CONCRETE EMBEDMENT, SHALL CONSIST OF GRAVEL, CRUSHED GRAVEL, OR CRUSHED STONE 1/4 INCH TO 1 INCH IN SIZE. AS A MINIMUM, THE MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF IDOT STANDARD SPECIFICATIONS. THE GRADATION SHALL CONFORM TO GRADATION CA-7 OR CA-11 OF THE STANDARD SPECIFICATIONS.
3	BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF IDOT STANDARD SPECIFICATIONS. THE GRADATION SHALL CONFORM TO GRADATION CA-6 OF THE STANDARD SPECIFICATIONS. BACKFILL MATERIAL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.
4	JOINTS CONNECTING DISSIMILAR PIPE MATERIALS SHALL BE MADE WITH SEWER CLAMP NON-SHEAR TYPE COUPLINGS; CASCADE CSS, ROMAC 155, FERNCO, INC. SHEAR RING, OR APPROVED EQUAL. WHEN AVAILABLE, A STANDARD JOINT WITH A TRANSITION GASKET MAY BE USED. THE NAME OF THE MANUFACTURER, CLASS, AND DATE OF ISSUE SHALL BE CLEARLY STENCILED ON ALL SECTIONS OF PIPE. THE CONTRACTOR SHALL ALSO SUBMIT BILLS OF LADING, OR OTHER QUALITY ASSURANCE DOCUMENTATION WHEN REQUESTED BY THE CITY ENGINEER. ALL NUTS AND BOLTS FOR COUPLINGS SHALL BE STAINLESS STEEL.
5	MANHOLES FOR STORM SEWERS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES AND SHALL BE CONSTRUCTED OF PRECAST CONCRETE UNITS IN ACCORDANCE WITH ASTM C478-05 (OR LATEST EDITION) AND SHALL CONFORM TO THE CITY OF NAPERVILLE STANDARD DETAIL. ALL MANHOLES SHALL BE WATER-TIGHT. ALL VISIBLE LEAKS SHALL BE SEALED IN A MANNER ACCEPTABLE TO THE CITY ENGINEER.
6	MANHOLES SHALL BE FURNISHED WITH A SELF-SEALING FRAME AND SOLID COVER (EAST JORDAN IRON WORKS 1022 WITH TYPE A SOLID COVER, OR APPROVED EQUAL) WITH THE WORD "STORM" IMPRINTED ON THE COVER IN RAISED LETTERS. ALL FRAMES AND LIDS SHALL MEET OR EXCEED AASHTO H-20 LOADING SPECIFICATIONS. FRAMES SHALL BE SHOP PAINTED WITH ASPHALTIC BASE PAINT. BOTH THE MANHOLE FRAME AND COVER SHALL HAVE MACHINED HORIZONTAL AND VERTICAL BEARING SURFACES. INVERTED MANHOLE FRAMES ARE NOT ALLOWED. PICK HOLES SHALL NOT CREATE OPENINGS IN THE MANHOLE COVER.

7	MANHOLE STEPS ON MAXIMUM 16 INCH CENTER SHALL BE FURNISHED WITH EACH MANHOLE, SECURELY ANCHORED IN PLACE, TRUE TO VERTICAL ALIGNMENT, IN ACCORDANCE WITH THE NAPERVILLE STANDARD DETAILS. STEPS SHALL BE COPOLYMER POLYPROPYLENE REINFORCED WITH 1/2 INCH A615/A615M-05A (OR LATEST EDITION) GRADE 60 STEEL REINFORCEMENT, MEETING OR EXCEEDING ASTM C 478-05 (OR LATEST EDITION) AND OSHA STANDARDS.
8	CATCH BASINS AND INLETS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 24 INCHES AND SHALL BE CONSTRUCTED OF PRECAST CONCRETE UNITS IN ACCORDANCE WITH ASTM C478-05 (OR LATEST EDITION) AND SHALL CONFORM TO THE CITY OF NAPERVILLE STANDARD DETAIL. ALL CATCH BASINS AND INLETS SHALL BE WATER-TIGHT AT ALL POINTS BELOW GRADE. ALL VISIBLE LEAKS SHALL BE SEALED IN A MANNER ACCEPTABLE TO THE CITY ENGINEER. CATCH BASINS AND INLETS SHALL BE FURNISHED WITH A FRAME AND GRATE BASED UPON THE LOCATION OF THE INSTALLATION AS LISTED BELOW. ALL FRAMES AND GRATES SHALL MEET OR EXCEED AASHTO H-20 LOADING SPECIFICATIONS. FRAMES SHALL BE SHOP PAINTED WITH ASPHALTIC BASE PAINT. A) PAVEMENT: EAST JORDAN IRON WORKS 1022 FRAME WITH TYPE M1 RADIAL FLAT GRATE, NEENAH R-2502, OR APPROVED EQUAL FOR OPEN GRATES. EAST JORDAN IRON WORKS 1022 FRAME WITH TYPE A SOLID COVER, NEENAH R-1772, OR APPROVED EQUAL FOR CLOSE LIDS. B) BARRIER CURB AND GUTTER: EAST JORDAN IRON WORKS 7220 FRAME WITH TYPE M1 GRATE AND T1 CURB BOX, NEENAH R-3278-A, OR APPROVED EQUAL. C) DEPRESSED CURB: EAST JORDAN IRON WORKS 5120 FRAME AND GRATE, NEENAH R-3225-L, OR APPROVED EQUAL. D) MOUNTABLE CURB: EAST JORDAN IRON WORKS 7525 FRAME AND GRATE, NEENAH R-3501-P, OR APPROVED EQUAL. E) NON-PAVED AREAS: EAST JORDAN IRON WORKS 6527 BEEHIVE GRATE, NEENAH R-4340-B, OR APPROVED EQUAL. ALTERNATELY, IN AREAS WHERE THERE IS THE LIKELIHOOD OF PEDESTRIAN TRAFFIC, EAST JORDAN IRON WORKS 1022 FRAME WITH TYPE M1 RADIAL FLAT GRATE, OR APPROVED EQUAL MAY BE USED.
9	THE STEEL CASING PIPE SHALL BE BITUMINOUS COATED, A MINIMUM OF 30 MILS THICKNESS INSIDE AND OUT, AND SHALL BE OF LEAK PROOF CONSTRUCTION, CAPABLE OF WITHSTANDING THE ANTICIPATED LOADINGS. SEE TABLE 200-1 IN THE NAPERVILLE STANDARD SPECIFICATIONS FOR THE MINIMUM WALL THICKNESSES OF VARIOUS STEEL CASING DIAMETERS. THE STEEL CASING PIPE SHALL HAVE MINIMUM YIELD STRENGTH OF 35,000 PSI AND SHALL MEET THE REQUIREMENTS OF A139/A139M-04 (OR LATEST EDITION), GRADE B, RING DEFLECTION SHALL NOT EXCEED 2% OF THE NOMINAL DIAMETER. THE STEEL CASING PIPE SHALL BE DELIVERED TO THE JOBSITE WITH BEVELED ENDS TO FACILITATE FIELD WELDING.
10	ALL PIPE SHALL BE LAID TRUE TO LINE AND GRADE. DIRT AND OTHER FOREIGN MATERIAL SHALL BE PREVENTED FROM ENTERING THE PIPE OR PIPE JOINT DURING HANDLING OR LAYING OPERATIONS. ALL STORM SEWER PIPE TO PIPE CONNECTIONS SHALL BE SEALED WITH BUTYL MASTIC TO ENSURE WATER TIGHTNESS. LIFT HOLES TO BE SEALED USING BUTYL MASTIC AND CONCRETE PLUGS. AT NO TIME SHALL CONNECTIONS BETWEEN THE STORM SEWER AND SANITARY SEWER BE ALLOWED.
11	FOR STRUCTURES LOCATED IN PAVED AREAS, A MINIMUM OF FOUR, 2-INCH DIAMETER HOLES SHALL BE DRILLED OR PRECAST INTO THE STRUCTURE WITHIN 1 FOOT OF THE LOWEST PIPE INVERT. THE HOLES SHALL BE DISTRIBUTED EQUIDISTANT AROUND THE PERIMETER OF THE STRUCTURE. A 1-FOOT BY 1-FOOT

Erosion Control and Drainage Notes (General)
The Erosion Control and Drainage Notes in this section should be included in all final engineering plans regardless of the type of work in the project.

1	THE CONTRACTOR SHALL MAINTAIN PROPER DRAINAGE AT ALL TIMES DURING THE COURSE OF CONSTRUCTION AND PREVENT STORM WATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS.
2	DURING EXTENDED DRY PERIODS, THE CONSTRUCTION AREA(S) MAY NEED TO BE WATERED DOWN TO PREVENT THE BLOWING OF SOIL FROM THE SITE.
3	DURING CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE UTILIZED TO MINIMIZE THE TRACKING OF DIRT ONTO THE PUBLIC STREETS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO KEEP PUBLIC STREET PAVEMENT CLEAN OF DIRT AND DEBRIS. ANY DIRT THAT IS TRACKED ONTO THE PUBLIC STREETS SHALL BE REMOVED THE SAME DAY. IF THE AMOUNT TRACKED ON THE PUBLIC STREET IS EXCESSIVE, CLEANING MAY BE REQUIRED MORE FREQUENTLY.

Erosion Control and Drainage Notes (Project Specific)
The Erosion Control and Drainage Notes in this section are intended to be included when a project includes erosion control work as part of the project. The Consultant should review the following Notes to determine if they are applicable to the work being completed.

1	ALL EROSION CONTROL MEASURES SHALL BE PROPERLY INSTALLED, AS PERMITTED, PRIOR TO ANY LAND DISTURBANCE ACTIVITIES. ALL EROSION CONTROL SHALL BE MAINTAINED UNTIL TURF IS ESTABLISHED.
2	ACCEPTABLE PERIMETER EROSION CONTROL INCLUDES SILT FENCE, SILT WORM AND ANY OTHER APPLICATION APPROVED BY THE CITY ENGINEER.
3	ALL OPEN GRATE STRUCTURES SHALL HAVE EROSION CONTROL PROTECTION IN ACCORDANCE WITH THE APPROVED EROSION CONTROL PLANS. STRAW BALES SHALL NOT BE USED.
4	STOCKPILES NOT BEING DISTURBED FOR MORE THAN 14 DAYS SHALL BE SEEDED.
5	ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY, AFTER ANY 0.5 INCH OR GREATER RAINFALL OR MORE FREQUENTLY AS NECESSARY TO MAINTAIN THEIR FUNCTION.

Erosion Control and Drainage Notes (NPDES Permit)
The Erosion Control and Drainage Note in this section should be included if the project requires an NPDES permit.

1	IT IS THE RESPONSIBILITY OF THE OWNER OR HIS DESIGNEE TO INSPECT ALL TEMPORARY EROSION CONTROL MEASURES PER THE REQUIREMENTS OF THE NPDES PERMIT AND CORRECT ANY DEFICIENCIES AS NEEDED.

Geometric and Paving Notes (General)
The Geometric and Paving Notes in this section should be included in all final engineering plans regardless of the type of work in the project.

1	THE DEVELOPER AND CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO ADEQUATELY PROTECT THE PAVEMENT AND PROPERTY, CURB AND GUTTER AND OTHER RIGHT-OF-WAY IMPROVEMENTS, WHETHER NEWLY CONSTRUCTED OR EXISTING, FROM ANY AND ALL DAMAGE. SUFFICIENT MEANS SHALL BE EMPLOYED BY THE CONTRACTOR TO PROTECT AGAINST SUCH DAMAGE TO THE SATISFACTION OF THE CITY ENGINEER.
2	ANY NEW OR EXISTING IMPROVEMENTS THAT ARE DAMAGED SHALL BE REPAIRED OR REPLACED IN A MANNER THAT IS SATISFACTORY TO THE CITY ENGINEER.
3	THE CONTRACTOR AND/OR DEVELOPER SHALL SECURE ALL NECESSARY RIGHTS AND PERMISSIONS TO PERFORM ANY WORK ON PRIVATE PROPERTY NOT WITHIN THE OWNERSHIP RIGHTS OF THE DEVELOPER. THE DEVELOPER SHALL BEAR THE SOLE RESPONSIBILITY FOR DAMAGES THAT MAY OCCUR AS A RESULT OF WORK PERFORMED UNDER CONTRACTS THEY INITIATE.
4	THE CONTRACTOR/DEVELOPER WILL BE RESPONSIBLE FOR BRINGING PAVEMENTS (STREET, CURB AND GUTTER, SIDEWALK, DRIVEWAY) ON THE PROPERTY UP TO CITY STANDARDS INCLUDING ANY REPAIRS TO SUBSTANDARD PAVEMENTS THAT EXISTED PRIOR TO OR OCCURRED DURING CONSTRUCTION.
5	WHEREVER NEW WORK WILL MEET EXISTING CONDITIONS OTHER THAN LAWN AREAS, REGARDLESS OF WHETHER THE NEW OR EXISTING WORK IS ASPHALT OR CONCRETE, THE EXISTING ADJACENT SIDEWALK, DRIVEWAYS, PAVEMENT OR CURB SHALL BE NEATLY SAW CUT. THE SAW CUT SHALL BE IN A NEAT STRAIGHT LINE SUFFICIENTLY DEEP SO THAT IT RENDERS A SMOOTH VERTICAL FACE TO MATCH TO. IF THE CONTRACTOR IS NOT CAREFUL OR DOES NOT SAW DEEP ENOUGH AND THE CUT LINE BREAKS OUT OR CHIPS TO AN IMPERFECT EDGE, THEN THE EXISTING SIDE MUST BE RE-CUT SQUARE AND DONE OVER UNTIL IT IS CORRECT.
6	ALL PAVEMENT PATCHES WITHIN THE PUBLIC RIGHT-OF-WAY MUST CONFORM TO CITY STANDARDS. REFERENCE NAPERVILLE STANDARD DETAILS 590.12 AND 590.13.

3	AT THE END OF EACH DAY OF WORK, THE ROADWAY MUST BE COMPLETELY REOPENED TO TRAFFIC. ANY OPEN HOLES MUST BE PLATED OR COLD PATCHED; THE CITY WILL NOT ALLOW THE HOLES TO BE FILLED WITH GRAVEL.

Traffic Control and Protection Notes (Downtown)
The Traffic Control and Protection Notes in this section should be included in all final engineering plans if the project is located in downtown Naperville.

1	PEDESTRIAN TRAFFIC SHALL BE MAINTAINED IN THE DOWNTOWN. IF A PEDESTRIAN DETOUR CANNOT BE ACCOMMODATED, THE CITY MAY REQUIRE THE CONTRACTOR TO PROVIDE A PROTECTED COVERED WALKWAY.
2	ANY WORK IMPACTING THE PUBLIC RIGHT-OF-WAY SHALL NOT BE ALLOWED IN THE DOWNTOWN ON A FRIDAY, SATURDAY, SUNDAY, AND/OR HOLIDAY, UNLESS OTHERWISE PERMITTED BY THE CITY ENGINEER.
3	ALL WORK IN THE DOWNTOWN SHALL BE COORDINATED WITH THE DOWNTOWN NAPERVILLE ALLIANCE (DNA) TO AVOID CONFLICT WITH SPECIAL EVENTS.
4	UNLESS REQUIRED TO SUPPORT THE CURRENT WORK EFFORT, WORKERS' PERSONAL VEHICLES MAY NOT BE PARKED ON-STREET. CONTRACTORS MAY REQUEST HANGTAGS FROM THE CITY TO ALLOW WORKERS TO PARK IN DESIGNATED AREAS WITHIN THE CITY PARKING DECKS.

Storm Sewer Notes (General)
The Storm Sewer Notes in this section should be included in all final engineering plans regardless of the type of work in the project.

1	NO CONNECTION TO AN EXISTING PUBLIC STORM SEWER MAY BE MADE WITHOUT PERMISSION OF THE CITY ENGINEER.
2	THE CONTRACTOR SHALL REPAIR ANY EXISTING FIELD DRAINAGE TILE DAMAGED DURING CONSTRUCTION AND PROPERLY REROUTE AND/OR CONNECT SAID TILE TO THE NEAREST STORM SEWER OUTLET. ALL LOCATIONS OF ENCOUNTERED FIELD DRAINAGE TILE SHALL BE PROPERLY INDICATED ON THE CONTRACTOR'S RECORD DRAWINGS.

Storm Sewer Notes (Storm Sewer Work in Plans)
The Storm Sewer Notes in this section are intended to be included when a project includes storm sewer work as part of the project. The Consultant should review the following Notes to determine if they are applicable to the work being completed.

The first note provided below includes information regarding all the allowable storm sewer pipe materials. Only those materials that are identified on the plans are required to be included. However, if the contractor requests a change to the pipe material and the associated pipe material information is not included in the engineering plans, the applicable Storm Sewer Note will need to be added to final engineering plans the as part of the Field Change request.

1	THE FOLLOWING MATERIALS ARE PERMITTED FOR STORM SEWER AND PIPE CULVERTS. WHERE A PARTICULAR MATERIAL IS SPECIFIED IN THE PLANS OR SPECIAL PROVISIONS, NO OTHER KIND OF MATERIAL WILL BE PERMITTED:
1a	REINFORCED CONCRETE PIPE (RCP) - REINFORCED CONCRETE PIPE SHALL CONFORM TO ASTM DESIGNATION C 76, CLASSES I, II, III, IV OR V. BITUMINOUS JOINTS SHALL CONFORM TO ASTM DESIGNATIONS C 14 OR C 76 AS MAY BE APPLICABLE. BITUMINOUS MATERIAL SHALL CONSIST OF A HOMOGENEOUS BLEND OF BITUMEN, INERT FILLER, AND SUITABLE SOLVENT APPROVED BY THE CITY ENGINEER. RUBBER GASKET JOINTS SHALL CONFORM TO ASTM C 433. REINFORCED CONCRETE PIPE SHALL ALSO BE PERMITTED AS ROUND, ELLIPTICAL, OR BOX SHAPED OR AS REINFORCED CONCRETE ARCH CULVERT.
1b	NON-REINFORCED CONCRETE PIPE - NON-REINFORCED CONCRETE PIPE SHALL BE ALLOWED FOR PIPES WITH A 10 INCH OR SMALLER DIAMETER. NON-REINFORCED CONCRETE PIPE SHALL CONFORM TO ASTM DESIGNATION C 14, CLASS 3. BITUMINOUS JOINTS SHALL CONFORM TO ASTM DESIGNATIONS C 14 OR C 76 AS MAY BE APPLICABLE. BITUMINOUS MATERIAL SHALL CONSIST OF A HOMOGENEOUS BLEND OF BITUMEN, INERT FILLER, AND SUITABLE SOLVENT APPROVED BY THE CITY ENGINEER. RUBBER GASKET JOINTS SHALL CONFORM TO ASTM C 433.

	SECTION OF UNDERDRAIN FILTER CLOTH MATERIAL SHALL BE SUFFICIENTLY FIXED TO THE OUTSIDE OF THE MANHOLE WITH MASTIC MATERIAL TO PREVENT SLIPPAGE DURING BACKFILLING.
12	ALL STORM SEWER STRUCTURE FRAMES WITHOUT INSIDE FLANGES SHALL BE SHAPED WITH NON-SHRINKING HYDRAULIC CEMENT TO FORM A FILLET TO THE STRUCTURE OR ADJUSTING RING. WHEN ADJUSTMENTS ARE NECESSARY, NO MORE THAN 12 INCHES OF VERTICAL ADJUSTMENT MAY BE MADE USING THE MINIMUM PRACTICAL NUMBER OF INDIVIDUAL RINGS. ALL RINGS SHALL BE HIGH DENSITY POLYETHYLENE PLASTIC (HDPE), RECYCLED RUBBER, HIGH DENSITY EXPANDING POLYSTYRENE, EXPANDED POLYPROPYLENE (EPP), OR OTHER MATERIAL AS APPROVED BY THE CITY ENGINEER. PRECAST CONCRETE RINGS, BRICKS, ROCKS, SHIMS, OR CONCRETE BLOCKS WILL NOT BE ALLOWED. TAPERED ADJUSTING RINGS SHALL BE REQUIRED WHEN THE FRAME WILL NEED TO MATCH THE SLOPE OF THE ROADWAY. A RESILIENT, FLEXIBLE, NON-HARDENING, PREFORMED BITUMINOUS MASTIC MATERIAL, CONSEAL 102 B OR APPROVED EQUAL, SHALL BE USED BETWEEN THE CONE OR TOP BARREL SECTION OF THE STRUCTURE AND THE ADJUSTING RINGS. A THICK BEAD OF NON-HARDENING ELASTOMERIC JOINT SEALANT CONFORMING TO ASTM C-920, TYPE S, GRADE NS, SHALL BE APPLIED BETWEEN ALL INDIVIDUAL RINGS, AND BETWEEN THE ADJUSTING RINGS AND THE FRAME. THE SEALANT OR MASTIC MATERIAL SHALL BE APPLIED IN SUCH A MANNER THAT NO SURFACE WATER OR GROUND WATER INFLOW CAN ENTER THE STRUCTURE.

Traffic Control and Protection Notes (General)
The Traffic Control and Protection Notes in this section should be included in all final engineering plans regardless of the type of work in the project.

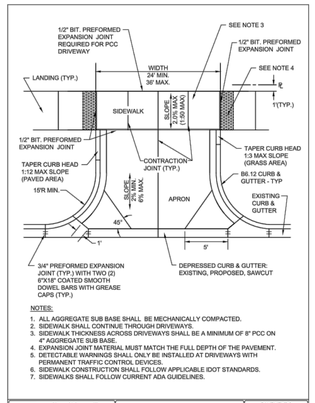
1	ALL DEVELOPERS AND CONTRACTORS SHALL PROVIDE SUITABLE TRAFFIC CONTROL FOR THEIR CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH PART 6 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. TRAFFIC CONTROL MUST BE PROVIDED FOR ANY ACTIVITY THAT IMPACTS TRAFFIC FLOW. THIS INCLUDES, BUT IS NOT LIMITED TO, ROAD CLOSURES REQUIRING DETOURS, DAILY LANE CLOSURES, LONG TERM LANE CLOSURES, NARROW LANES, AND CONSTRUCTION VEHICLES ENTERING AND EXITING THE PUBLIC ROADWAY. ALL TRAFFIC CONTROL SET-UPS MAY BE INSPECTED BY THE CITY OF NAPERVILLE TO ENSURE THAT THEY ARE PROVIDING POSITIVE GUIDANCE TO MOTORISTS AND ARE NOT IN THEMSELVES PRESENTING A HAZARDOUS SITUATION. A REPRESENTATIVE OF THE DEVELOPER OR CONTRACTOR MUST PROVIDE PHONE NUMBERS AT WHICH THEY CAN BE REACHED 24 HOURS A DAY AND ON WEEKENDS SO THAT THEY CAN MAINTAIN TRAFFIC CONTROL DEVICES.
2	PEDESTRIANS MUST BE PROVIDED WITH A SAFE ALTERNATE ROUTE IF PEDESTRIAN FACILITIES ARE TO BE CLOSED AS A RESULT OF CONSTRUCTION ACTIVITIES. GUIDANCE MUST BE PROVIDED TO PEDESTRIANS SO THAT THEY MAY AVOID THE WORK ZONE. SAID PEDESTRIAN DETOUR PLAN (WITH SIGNAGE) IS TO BE REVIEWED AND ACCEPTED BY THE CITY IN WRITING, PRIOR TO THE COMMENCEMENT OF THE WORK.
3	THE CONTRACTOR SHALL EMPLOY THE APPROPRIATE METHODS OF TRAFFIC CONTROL IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, SUCH THAT THE SAFETY OF VEHICLES, AND PEDESTRIANS IS PRESERVED AT ALL TIMES. THE ERECTION AND MAINTENANCE OF THE TRAFFIC CONTROL DEVICES SHALL BE TO THE SATISFACTION OF THE AGENCY OF JURISDICTION AND THE CITY ENGINEER.
4	ANY TEMPORARY OPEN HOLES SHOULD BE BARRICADED AND PROTECTED IN ACCORDANCE WITH APPLICABLE STANDARDS.

Traffic Control and Protection Notes (Arterial Roads)
The Traffic Control and Protection Notes in this section should be included in all final engineering plans if the project involves work either in or adjacent to arterial roadways.

1	LANE CLOSURES ON ARTERIAL ROADWAYS WITHIN THE CITY OF NAPERVILLE ARE NOT PERMITTED BETWEEN THE HOURS OF 6AM-9AM AND 3PM-7PM MONDAY THROUGH FRIDAY, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER. LANE CLOSURES ON ARTERIAL STREETS ARE NOT PERMITTED BETWEEN 7AM AND 7PM ON WEEKENDS, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER. ARTERIAL ROADWAYS ARE DEFINED AS BOTH MAJOR AND MINOR ARTERIAL ROADWAYS AS DESIGNATED ON THE CITY'S MASTER THOROUGHFARE PLAN, LATEST EDITION.
2	ANY WORK THAT IMPACTS A TRAFFIC LANE ON AN ARTERIAL ROADWAY REQUIRES AN ARROW BOARD AS PART OF THE TRAFFIC CONTROL.

WATER UTILITES GENERAL NOTES

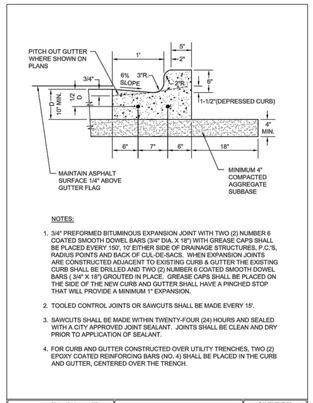
a. New water main valves, including pressure tap valves, adjacent to an existing water main, and existing water main valves shall only be operated by the City of Naperville, Department of Public Utilities CEE/CM Division personnel with 48-hour notice (Monday-Friday). Contact Naperville TED Business Group at 630-420-6082 for scheduling.
b. Any existing utility structures requiring adjustment or reconstruction shall be completed by the contractor to the satisfaction of the utility owner. Adjustments and/or reconstructions not called for on the plans shall be considered incidental to the contract. No more than a total of 12 inches of adjusting rings and/or 2 adjusting rings shall be allowed. All structure frames shall be flush with final grade.
c. Trees shall be installed a minimum of five (5) feet horizontally from underground electrical feeders, sanitary sewers, sanitary services, water mains, and water services. Trees shall be installed a minimum of ten (10) feet horizontally from utility structures and appurtenances, including, but not limited to, manholes, valve vaults, valve boxes and fire hydrants. No trees, shrubs or obstacles will be allowed 10' in front of, 5' on the sides, and 7' to the rear of the electrical transformer.
d. All retainer glands when required to restrain valves, fittings, hydrants, and pipe joints shall be mechanical joint wedge action type MEGALUG 1100 Series as manufactured by EBBA Iron, Inc. or UNI-FLANGE BLOCKBUSTER 1400 SERIES as manufactured by Ford Meter Box Co. and shall be for use on ductile iron pipe conforming to ANSI/AWWA C151/A21.51, for nominal pipe sizes 3" through 48".
e. Existing ductile iron systems for restraining push-on pipe bells shall be MEGALUG SERIES 1100HD or FORD SERIES 1390.
f. Existing ductile iron systems requiring restraint shall be MEGALUG SERIES 1100SD (split MEGALUG) for mechanical joints.
g. Ductile iron water main to be Class 52. All ductile iron pipe is to be encased in polyethylene film Polyethylene encasement to be installed in accordance with ANSI/AWWA C105/A21.5-05.
h. A set of as-built record drawing shall be given to the City of Naperville upon completion of improvements showing the elevation and location (tied to two points) of all new and existing structures including fire hydrants, valve boxes and vaults, linestop sleeves, water service corporation stops, water main fittings/bends, manholes, sanitary service wyes (measured from downstream manhole), and abandoned water or sanitary service lines. All elevations should be referenced to the same benchmark datum as the original design plans. Horizontal ties shall be referenced to lot lines, back of curb, or property corners.
i. All sanitary sewer piping shall be PVC pipe meeting the requirements of ASTM D-2241 with joints conforming to ASTM D-3139. All sanitary sewer fittings shall be PVC meeting the following requirements: 4" to 12" shall be Injection Molded Fittings meeting ASTM D-2241. Greater than 12" shall be Fabricated Fittings meeting ASTM D-2241 or C905. Minimum pressure rating shall be 150 psi.
j. The valves less than 16" shall be standard pattern, gate valves and shall



NOTES:

1. ALL AGGREGATE SUB BASE SHALL BE MECHANICALLY COMPACTED.
2. SIDEWALK SHALL CONTINUE THROUGH DRIVEWAYS.
3. SIDEWALK THICKNESS ACROSS DRIVEWAYS SHALL BE A MINIMUM OF 8" PCC ON 4" AGGREGATE SUB BASE.
4. EXPANSION JOINT MATERIAL MUST MATCH THE FULL DEPTH OF THE PAVEMENT.
5. DETECTABLE WARNINGS SHALL ONLY BE INSTALLED AT DRIVEWAYS WITH PERMANENT TRAFFIC CONTROL DEVICES.
6. SIDEWALK CONSTRUCTION SHALL FOLLOW APPLICABLE IDOT STANDARDS.
7. SIDEWALKS SHALL FOLLOW CURRENT ADA GUIDELINES.

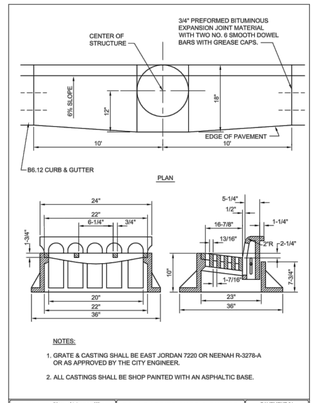
City of Naperville STANDARD DETAIL	TYPICAL COMMERCIAL DRIVEWAY DETAIL	PAVEMENT 5
	REVISED: 08/01/2018 SHEET 1 OF 1	590.05



NOTES:

1. 3/4" PREFORMED BITUMINOUS EXPANSION JOINT WITH TWO (2) NUMBER 6 COATED SMOOTH DOWEL BARS (3/4" DIA. X 18") WITH GREASE CAPS SHALL BE PLACED EVERY 150', 10' EITHER SIDE OF DRAINAGE STRUCTURES, P.C.'S, RADIUS POINTS AND BACK OF CUL-DE-SACS. WHEN EXPANSION JOINTS ARE CONSTRUCTED ADJACENT TO EXISTING CURB & GUTTER THE EXISTING CURB SHALL BE DRILLED AND TWO (2) NUMBER 6 COATED SMOOTH DOWEL BARS (3/4" X 18") GROUTED IN PLACE. GREASE CAPS SHALL BE PLACED ON THE SIDE OF THE NEW CURB AND GUTTER SHALL HAVE A PINCHED STOP THAT WILL PROVIDE A MINIMUM 1" EXPANSION.
2. TOOLED CONTROL JOINTS OR SAWCUTS SHALL BE MADE EVERY 15'.
3. SAWCUTS SHALL BE MADE WITHIN TWENTY-FOUR (24) HOURS AND SEALED WITH A CITY APPROVED JOINT SEALANT. JOINTS SHALL BE CLEAN AND DRY PRIOR TO APPLICATION OF SEALANT.
4. FOR CURB AND GUTTER CONSTRUCTED OVER UTILITY TRENCHES, TWO (2) EPOXY COATED REINFORCING BARS (NO. 4) SHALL BE PLACED IN THE CURB AND GUTTER, CENTERED OVER THE TRENCH.

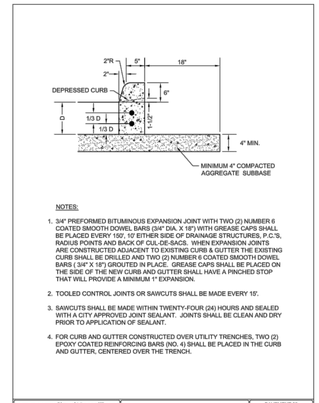
City of Naperville STANDARD DETAIL	B6.12 BARRIER CURB & GUTTER	PAVEMENT 20
	REVISED: 01/01/2013 SHEET 1 OF 1	590.20



NOTES:

1. GRATE & CASTING SHALL BE EAST JORDAN 7220 OR NEENAH R-3278-A OR AS APPROVED BY THE CITY ENGINEER.
2. ALL CASTINGS SHALL BE SHOP PAINTED WITH AN ASPHALTIC BASE.

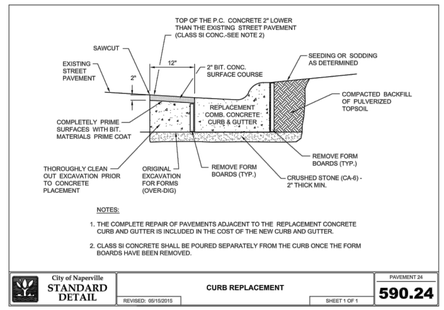
City of Naperville STANDARD DETAIL	B6.12 BARRIER CURB & GUTTER AT CURB INLETS	PAVEMENT 21
	REVISED: 01/01/2013 SHEET 1 OF 1	590.21



NOTES:

1. 3/4" PREFORMED BITUMINOUS EXPANSION JOINT WITH TWO (2) NUMBER 6 COATED SMOOTH DOWEL BARS (3/4" DIA. X 18") WITH GREASE CAPS SHALL BE PLACED EVERY 150', 10' EITHER SIDE OF DRAINAGE STRUCTURES, P.C.'S, RADIUS POINTS AND BACK OF CUL-DE-SACS. WHEN EXPANSION JOINTS ARE CONSTRUCTED ADJACENT TO EXISTING CURB & GUTTER THE EXISTING CURB SHALL BE DRILLED AND TWO (2) NUMBER 6 COATED SMOOTH DOWEL BARS (3/4" X 18") GROUTED IN PLACE. GREASE CAPS SHALL BE PLACED ON THE SIDE OF THE NEW CURB AND GUTTER SHALL HAVE A PINCHED STOP THAT WILL PROVIDE A MINIMUM 1" EXPANSION.
2. TOOLED CONTROL JOINTS OR SAWCUTS SHALL BE MADE EVERY 15'.
3. SAWCUTS SHALL BE MADE WITHIN TWENTY-FOUR (24) HOURS AND SEALED WITH A CITY APPROVED JOINT SEALANT. JOINTS SHALL BE CLEAN AND DRY PRIOR TO APPLICATION OF SEALANT.
4. FOR CURB AND GUTTER CONSTRUCTED OVER UTILITY TRENCHES, TWO (2) EPOXY COATED REINFORCING BARS (NO. 4) SHALL BE PLACED IN THE CURB AND GUTTER, CENTERED OVER THE TRENCH.

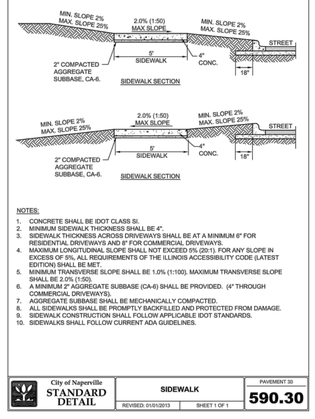
City of Naperville STANDARD DETAIL	TYPE B BARRIER CURB	PAVEMENT 23
	REVISED: 01/01/2013 SHEET 1 OF 1	590.23



NOTES:

1. THE COMPLETE REPAIR OF PAVEMENTS ADJACENT TO THE REPLACEMENT CONCRETE CURB AND GUTTER IS INCLUDED IN THE COST OF THE NEW CURB AND GUTTER.
2. CLASS SI CONCRETE SHALL BE POURED SEPARATELY FROM THE CURB ONCE THE FORM BOARDS HAVE BEEN REMOVED.

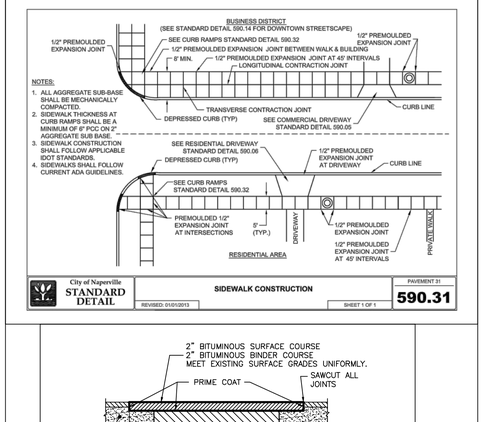
City of Naperville STANDARD DETAIL	CURB REPLACEMENT	PAVEMENT 24
	REVISED: 05/15/2015 SHEET 1 OF 1	590.24



NOTES:

1. CONCRETE SHALL BE IDOT CLASS SI.
2. MINIMUM SIDEWALK THICKNESS SHALL BE 4".
3. SIDEWALK THICKNESS ACROSS DRIVEWAYS SHALL BE AT A MINIMUM 6" FOR RESIDENTIAL DRIVEWAYS AND 8" FOR COMMERCIAL DRIVEWAYS.
4. MAXIMUM LONGITUDINAL SLOPE SHALL NOT EXCEED 5% (20:1). FOR ANY SLOPE IN EXCESS OF 5%, ALL REQUIREMENTS OF THE ILLINOIS ACCESSIBILITY CODE (LATEST EDITION) SHALL BE MET.
5. MINIMUM TRANSVERSE SLOPE SHALL BE 1.0% (1:100). MAXIMUM TRANSVERSE SLOPE SHALL BE 2.0% (1:50).
6. A MINIMUM 2" AGGREGATE SUBBASE (CA-6) SHALL BE PROVIDED. (4" THROUGH COMMERCIAL DRIVEWAYS).
7. AGGREGATE SUBBASE SHALL BE MECHANICALLY COMPACTED.
8. ALL SIDEWALKS SHALL BE PROMPTLY BACKFILLED AND PROTECTED FROM DAMAGE.
9. SIDEWALK CONSTRUCTION SHALL FOLLOW APPLICABLE IDOT STANDARDS.
10. SIDEWALKS SHALL FOLLOW CURRENT ADA GUIDELINES.

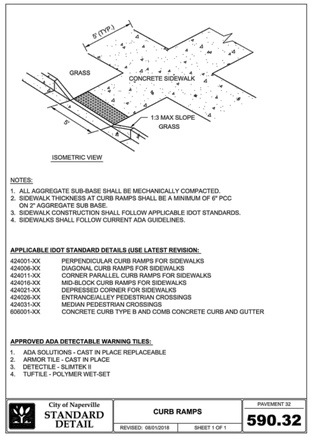
City of Naperville STANDARD DETAIL	SIDEWALK	PAVEMENT 30
	REVISED: 01/01/2013 SHEET 1 OF 1	590.30



NOTES:

1. ALL AGGREGATE SUB-BASE SHALL BE MECHANICALLY COMPACTED.
2. SIDEWALK THICKNESS AT CURB RAMPS SHALL BE A MINIMUM OF 6" PCC ON 2" AGGREGATE SUB BASE.
3. SIDEWALK CONSTRUCTION SHALL FOLLOW APPLICABLE IDOT STANDARDS.
4. SIDEWALKS SHALL FOLLOW CURRENT ADA GUIDELINES.

City of Naperville STANDARD DETAIL	SIDEWALK CONSTRUCTION	PAVEMENT 31
	REVISED: 01/01/2013 SHEET 1 OF 1	590.31



NOTES:

1. ALL AGGREGATE SUB-BASE SHALL BE MECHANICALLY COMPACTED.
2. SIDEWALK THICKNESS AT CURB RAMPS SHALL BE A MINIMUM OF 6" PCC ON 2" AGGREGATE SUB BASE.
3. SIDEWALK CONSTRUCTION SHALL FOLLOW APPLICABLE IDOT STANDARDS.
4. SIDEWALKS SHALL FOLLOW CURRENT ADA GUIDELINES.

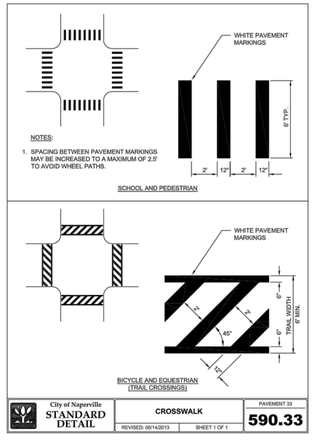
APPLICABLE IDOT STANDARD DETAILS (USE LATEST REVISION):

424001-XX	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-XX	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-XX	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424016-XX	MID-BLOCK CURB RAMPS FOR SIDEWALKS
424021-XX	DEPRESSED CORNER FOR SIDEWALKS
424026-XX	ENTRANCE/ALLEY PEDESTRIAN CROSSINGS
424031-XX	MEDIAN PEDESTRIAN CROSSINGS
606001-XX	CONCRETE CURB TYPE B AND COMB CONCRETE CURB AND GUTTER

APPROVED ADA DETECTABLE WARNING TILES:

1. ADA SOLUTIONS - CAST IN PLACE REPLACEABLE
2. ARMOR TILE - CAST IN PLACE
3. DETECTILE - SLIMTEK II
4. TUFTILE - POLYMER WET-SET

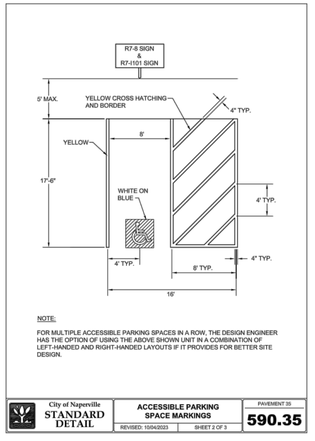
City of Naperville STANDARD DETAIL	CURB RAMPS	PAVEMENT 32
	REVISED: 08/01/2018 SHEET 1 OF 1	590.32



NOTES:

1. SPACING BETWEEN PAVEMENT MARKINGS MAY BE INCREASED TO A MAXIMUM OF 2.5' TO AVOID WHEEL PATHS.

City of Naperville STANDARD DETAIL	CROSSWALK	PAVEMENT 33
	REVISED: 08/14/2013 SHEET 1 OF 1	590.33



NOTE:

FOR MULTIPLE ACCESSIBLE PARKING SPACES IN A ROW, THE DESIGN ENGINEER HAS THE OPTION OF USING THE ABOVE SHOWN UNIT IN A COMBINATION OF LEFT-HANDED AND RIGHT-HANDED LAYOUTS IF IT PROVIDES FOR BETTER SITE DESIGN.

City of Naperville STANDARD DETAIL	ACCESSIBLE PARKING SPACE MARKINGS	PAVEMENT 35
	REVISED: 10/04/2023 SHEET 2 OF 3	590.35

NOTES FOR ACCESSIBLE PARKING SPACES:

1. EACH PARKING SPACE SHALL BE AT LEAST 16' WIDE, WITH AN 8' WIDE ACCESS AISLE.
2. TWO PARKING SPACES MAY SHARE AN ACCESS AISLE EXCEPT FOR ANGLED PARKING SPACES.
3. PARKING SPACE IDENTIFICATION SIGN WITH INTERNATIONAL SYMBOL OF ACCESSIBILITY (R7-8) SHALL BE MOUNTED ON A PERMANENT POST OR WALL AT THE FRONT CENTER OF THE ACCESSIBLE PARKING SPACE, SET AT A MINIMUM OF 5' ABOVE THE GROUND SURFACE MEASURED TO THE BOTTOM OF THE SIGN AND NO MORE THAN 8' HORIZONTALLY FROM THE FRONT OF A PARKING SPACE.
4. ACCESSIBLE PARKING SIGNS SHALL ALSO EXHIBIT THE WORDS "$250 FINE" OR THE "$250 FINE" SIGN (R7-1101) SHALL BE PLACED BENEATH THE ACCESSIBLE PARKING SIGN (R7-8).
5. PARKING SPACES DESIGNED FOR PERSONS WITH DISABILITIES AND ACCESSIBLE PASSENGER LOADING ZONES THAT SERVE A PARTICULAR BUILDING, SHALL BE LOCATED ON THE SHORTEST POSSIBLE ACCESSIBLE CIRCULATION ROUTE TO AN ACCESSIBLE ENTRANCE OF THE BUILDING.
6. IN SEPARATE PARKING STRUCTURES OR LOTS THAT DO NOT SERVE A PARTICULAR BUILDING, PARKING SPACES FOR PERSONS WITH DISABILITIES SHALL BE LOCATED ON THE SHORTEST POSSIBLE CIRCULATION ROUTE TO AN ACCESSIBLE PEDESTRIAN ENTRANCE OF THE PARKING FACILITY.

# OF ACCESSIBLE SPACES REQUIRED PER # OF OFF STREET PARKING	
TOTAL OFF STREET PARKING SPACES REQUIRED	REQUIRED MINIMUM NUMBER OF ACCESSIBLE PARKING SPACES
1 TO 25	1
26 TO 50	2
51 TO 75	3
76 TO 100	4
101 TO 150	5
151 TO 200	6
201 TO 300	7
301 TO 400	8
401 TO 500	9
501 TO 1000	2% OF TOTAL NUMBER
OVER 1000	20 PLUS 1 FOR EACH 100 OVER 1000

RESERVED PARKING — ACCESSIBLE PARKING SIGN (R7-8)

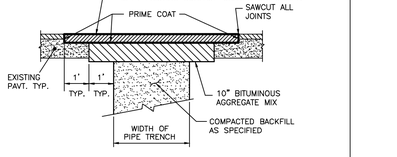
$250 FINE — "$250 FINE" SIGN (R7-1101)

VAN ACCESSIBLE — VAN ACCESSIBLE SIGN (OPTIONAL) 18" x 9" 2" SERIES D LETTERS

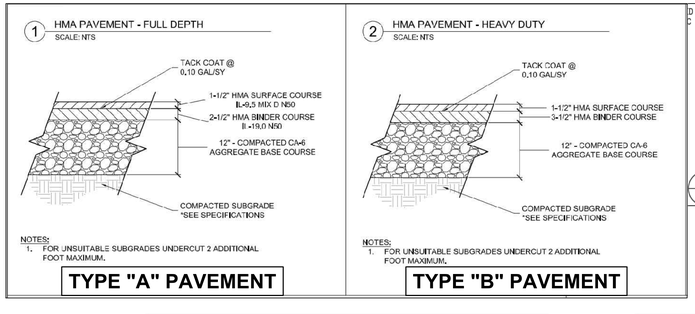


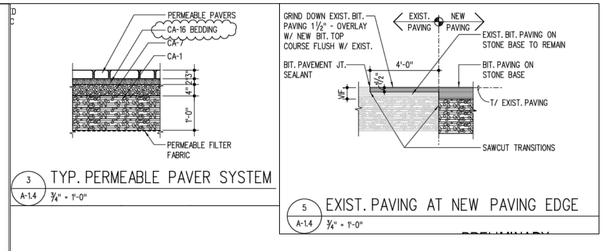
ACCESSIBLE SYMBOL LINES SHALL BE WHITE.

City of Naperville STANDARD DETAIL	ACCESSIBLE PARKING SPACE MARKINGS	PAVEMENT 35
	REVISED: 10/04/2023 SHEET 3 OF 3	590.35



BITUMINOUS PAVEMENT REPAIR
NOT TO SCALE





BITUMINOUS PAVING

A. Stone base: Type B (CA-6) crushed stone compacted in accordance with Section 301 of "Standard Specifications" to 90% maximum density per ASTM D 1557-12.
   1. Parking Lots and Drives: 12" minimum, unless noted otherwise.
B. Parking Lots and Drives: 4" minimum total compacted thickness of bituminous concrete meeting the requirements of Section 406 of "Standard Specifications", consisting of an application of the following:
   1. Primer: Bituminous material prime coat applied to the stone base at the rate of 0.50 gallons per square yard
   2. Binder Course: 2-1/2" minimum thickness compacted course of hot mix asphalt binder course, HMA N50, IL-19.0 in accordance with the "Standard Specifications".
   3. Tack Coat: Bituminous material prime coat applied at the rate of 0.10 gallons per square yard.
   4. Surface Course: 1-1/2" minimum thickness compacted course of hot mix asphalt surface course, HMA N50, IL-9.5 in accordance with the "Standard Specifications".
C. Geotextile Fabric: Geogrid manufactured from a punched polypropylene sheet, which is then oriented in three substantially equilateral directions so that the resulting ribs shall have a high degree of molecular orientation, which continues at least in part through the mass of the integral node.
   1. Tensar Triax TX160"

SEE ARCHITECTURAL PLANS FOR NOTED DETAILS REFERENCED BELOW:

- Typ Concrete Paving detail located on A1.2
- Typ Conc Walk expansion joint located on A1.2
- West Upper Lot Gate located on A1.2
- Southeast bus parking gate located on A1.3
- Flag pole base located on A1.3
- Typ section of gate located on A1.3
- Typ pipe bumper located on A1.3
- Typ ADA Parking Signage located on A1.3
- Southwest bus parking gate located on A1.4
- Typ Chain-link fencing post bases located on A1.4
- Fuel station located on A1.5
- Upper and Lower Trash enclosure gates elevation located on A1.5
- 8" PC Screen Wall at Dumpster joint located on A1.5
- Upper and Lower Trash Enclosure located on A1.5

THE WILL GROUP ENGINEERING
Main Address: 129 Capista Drive, Shorewood, IL 60404 | Phone: 815-744-6600
Invoicing: 401 S. Carlton Avenue, Wheaton, IL 60187 | www.thewillgroup.com

DATE CREATED: 10-07-2025
FIELD BK: BY OTHERS
PAGE: N/A
DRAWN BY: R.P.

No.	DATE	LATEST TWG ENGINEERING REVISION DESCRIPTION	BY
4	3-31-2026	CITY OF NAPERVILLE COMMENTS	M.C.

TWG Dwg. No.: 325-0400-C1

CITY OF NAPERVILLE STAMPS

HEALY BENDER PATTON & BEEN
ARCHITECTS
4040 Helene Avenue
Naperville, IL 60564
T 630.904.4300
www.healybender.com

NEW TRANSPORTATION FACILITY
NAPERVILLE COMMUNITY UNIT SCHOOL DISTRICT 203
NAPERVILLE, ILLINOIS
FOR
NAPERVILLE COMMUNITY UNIT SCHOOL DISTRICT 203
NAPERVILLE, DUPAGE COUNTY, ILLINOIS

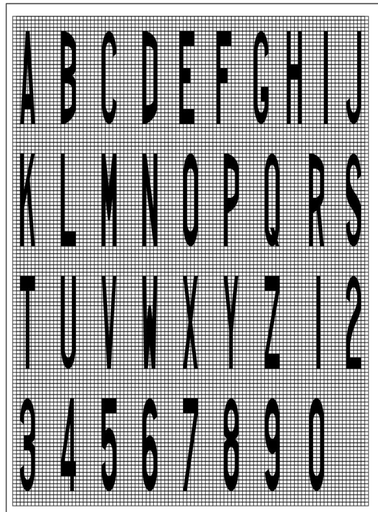
REVISIONS

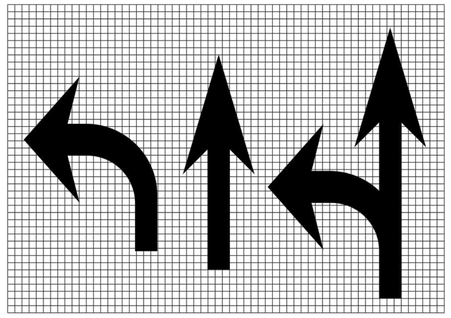
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2	02-20-2026	CITY OF NAPERVILLE COMMENTS
3	03-23-2026	CITY OF NAPERVILLE COMMENTS
4	03-31-2026	CITY OF NAPERVILLE COMMENTS

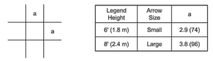
PROJ. NO. 5-2325-34
DRAWN BY R.P. @TWG Engineering
DATE 01-21-2026
SHEET NO. C7.2
OF 33

CONSTRUCTION DETAILS (1 OF 4)

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N:\twg\2025\400\Engineering\Plan Sets\C1 - New Transportation Facility\C7.2 - Construction Details (1 of 4).dwg, Layout1, 3/31/2026 5:11:41 PM, RandyPeebles







Legend Height	Arrow Size	a
6' (1.8 m)	Small	2.9 (74)
8' (2.4 m)	Large	3.8 (96)

The space between adjacent letters or numerals should be approximately 3 (75) for 6' (1.8 m) legend and 4 (100) for 8' (2.4 m) legend.

LETTER AND ARROW GRID SCALE

Illinois Department of Transportation

APPROVED _____ January 1, 2015
ENGINEER OF OPERATIONS

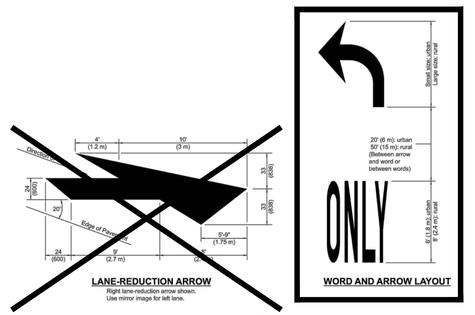
APPROVED _____ January 1, 2015
ENGINEER OF ENGINEERING ENVIRONMENT

09/8/23 10:48:

TYPICAL PAVEMENT MARKINGS

(Sheet 2 of 3)

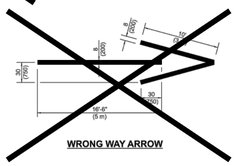
STANDARD 780001-05



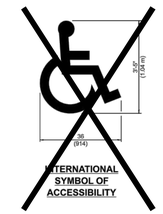
LANE-REDUCTION ARROW

Right lane-reduction arrow shown.
Use mirror image for left lane.

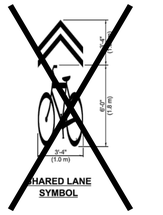
WORD AND ARROW LAYOUT



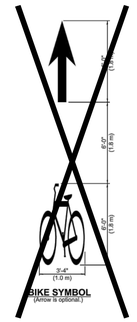
WRONG WAY ARROW



INTERNATIONAL SYMBOL OF ACCESSIBILITY



SHARED LANE SYMBOL



BIKE SYMBOL
(Arrow is optional.)

TYPICAL PAVEMENT MARKINGS

(Sheet 3 of 3)

STANDARD 780001-05

HEALY BENDER PATTON & BEEN
ARCHITECTS
4040 Helene Avenue
Naperville, IL 60564
T 630.904.4300
www.healybender.com

NEW TRANSPORTATION FACILITY
NAPERVILLE COMMUNITY UNIT SCHOOL DISTRICT 203
NAPERVILLE, ILLINOIS
FOR
NAPERVILLE COMMUNITY UNIT SCHOOL DISTRICT 203
NAPERVILLE, DUPAGE COUNTY, ILLINOIS

REVISIONS

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1	01-23-2026	CITY OF NAPERVILLE COMMENTS
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4	03-31-2026	CITY OF NAPERVILLE COMMENTS

PROJ. NO.
5-2325-34

DRAWN BY
R.P. @TWG Engineering

DATE:
01-21-2026

SHEET NO.
C7.3

OF 33

CONSTRUCTION DETAILS (2 OF 4)

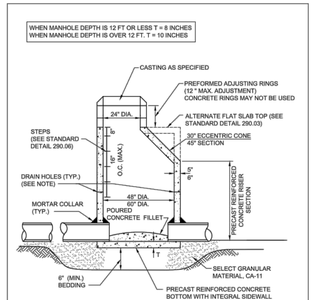
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N:\Year2025\24005\Engineering\Plan Sheets\C1 - New Transportation Facility\C7.3 - Construction Details 03.dwg, Layout: 3/31/2026 1:17:56 PM, RandyPeoples

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DATE CREATED: 10-07-2025				
FIELD BK: BY OTHERS	LATEST TWG ENGINEERING REVISION			TWG Dwg. No.:
PAGE: N/A	No.	DATE	DESCRIPTION	BY
DRAWN BY: R.P.	4	3-31-2026	CITY OF NAPERVILLE COMMENTS	M.C.

325-0400-C1

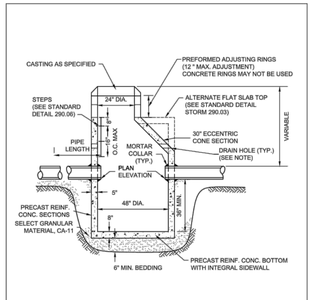
CITY OF NAPERVILLE STAMPS



NOTE:

A MINIMUM OF 4 PRECAST OR DRILLED 1" DIAMETER HOLES SHALL BE PROVIDED WITHIN 1' OF THE LOWEST PIPE INVERT. THE HOLES SHALL BE DISTRIBUTED EQUIDISTANT AROUND THE PERIMETER OF THE STRUCTURE. A 1' BY 1' SQUARE OF UNDERDRAIN FILTER CLOTH MATERIAL SHALL BE FIXED OVER EACH DRAIN HOLE ON THE OUTSIDE OF THE STRUCTURE WITH MASTIC MATERIAL TO PREVENT SLIPPAGE DURING BACKFILLING.

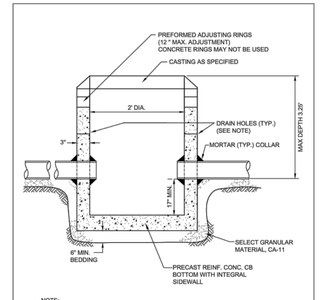
City of Naperville STANDARD DETAIL	STORM MANHOLE- TYPE A	STORM 1
	REVISED: 08/01/2018 SHEET 1 OF 1	290.01



NOTE:

A MINIMUM OF 4 PRECAST OR DRILLED 1" DIAMETER HOLES SHALL BE PROVIDED WITHIN 1' OF THE LOWEST PIPE INVERT. THE HOLES SHALL BE DISTRIBUTED EQUIDISTANT AROUND THE PERIMETER OF THE STRUCTURE. A 1' BY 1' SQUARE OF UNDERDRAIN FILTER CLOTH MATERIAL SHALL BE FIXED OVER EACH DRAIN HOLE ON THE OUTSIDE OF THE STRUCTURE WITH MASTIC MATERIAL TO PREVENT SLIPPAGE DURING BACKFILLING.

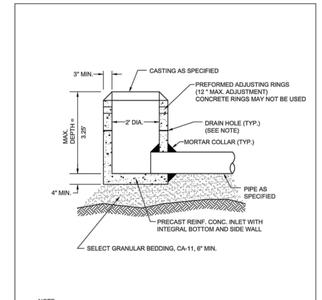
City of Naperville STANDARD DETAIL	CATCH BASIN - TYPE A	STORM 2
	REVISED: 08/01/2018 SHEET 1 OF 1	290.02



NOTE:

A MINIMUM OF 4 PRECAST OR DRILLED 1" DIAMETER HOLES SHALL BE PROVIDED WITHIN 1' OF THE LOWEST PIPE INVERT. THE HOLES SHALL BE DISTRIBUTED EQUIDISTANT AROUND THE PERIMETER OF THE STRUCTURE. A 1' BY 1' SQUARE OF UNDERDRAIN FILTER CLOTH MATERIAL SHALL BE FIXED OVER EACH DRAIN HOLE ON THE OUTSIDE OF THE STRUCTURE WITH MASTIC MATERIAL TO PREVENT SLIPPAGE DURING BACKFILLING.

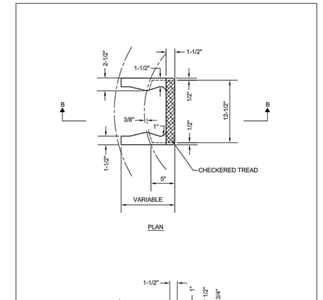
City of Naperville STANDARD DETAIL	CATCH BASIN - TYPE C	STORM 4
	REVISED: 08/01/2018 SHEET 1 OF 1	290.04



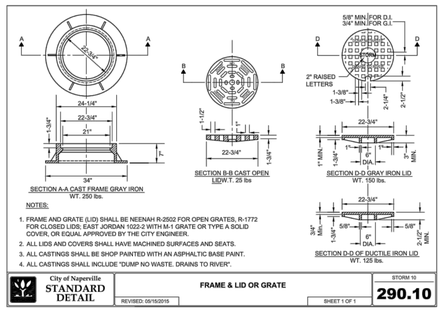
NOTE:

IN PAVED AREAS A MINIMUM OF 4 PRECAST OR DRILLED 1" DIAMETER HOLES SHALL BE PROVIDED WITHIN 1' OF THE LOWEST PIPE INVERT. THE HOLES SHALL BE DISTRIBUTED EQUIDISTANT AROUND THE PERIMETER OF THE STRUCTURE. A 1' BY 1' SQUARE OF UNDERDRAIN FILTER CLOTH MATERIAL SHALL BE FIXED OVER EACH DRAIN HOLE ON THE OUTSIDE OF THE STRUCTURE WITH MASTIC MATERIAL TO PREVENT SLIPPAGE DURING BACKFILLING.

City of Naperville STANDARD DETAIL	INLET - TYPE A	STORM 5
	REVISED: 08/01/2018 SHEET 1 OF 1	290.05



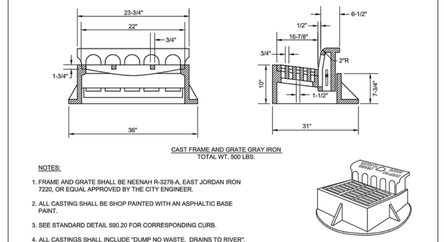
City of Naperville STANDARD DETAIL	CAST IRON STEPS	STORM 6
	REVISED: 01/01/2013 SHEET 1 OF 1	290.06



NOTES:

1. FRAME AND GRATE (LID) SHALL BE NEENAH R-2502 FOR OPEN GRATES, R-1772 FOR CLOSED LIDS; EAST JORDAN 1022-2 WITH M-1 GRATE OR TYPE A SOLID COVER, OR EQUAL APPROVED BY THE CITY ENGINEER.
2. ALL LIDS AND COVERS SHALL HAVE MACHINED SURFACES AND SEATS.
3. ALL CASTINGS SHALL BE SHOP PAINTED WITH AN ASPHALTIC BASE PAINT.
4. ALL CASTINGS SHALL INCLUDE "DUMP NO WASTE. DRAINS TO RIVER".

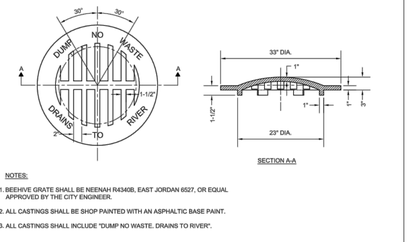
City of Naperville STANDARD DETAIL	FRAME & LID OR GRATE	STORM 10
	REVISED: 05/15/2015 SHEET 1 OF 1	290.10



NOTES:

1. FRAME AND GRATE SHALL BE NEENAH R-3278-A, EAST JORDAN IRON 7220, OR EQUAL APPROVED BY THE CITY ENGINEER.
2. ALL CASTING SHALL BE SHOP PAINTED WITH AN ASPHALTIC BASE PAINT.
3. SEE STANDARD DETAIL 690.20 FOR CORRESPONDING CURB.
4. ALL CASTINGS SHALL INCLUDE "DUMP NO WASTE. DRAINS TO RIVER".

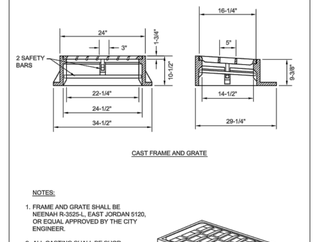
City of Naperville STANDARD DETAIL	FRAME & GRATE FOR B-6.12 CURB & GUTTER	STORM 11
	REVISED: 05/15/2015 SHEET 1 OF 1	290.11



NOTES:

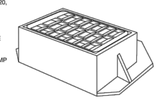
1. BEEHIVE GRATE SHALL BE NEENAH R4340B, EAST JORDAN 6527, OR EQUAL APPROVED BY THE CITY ENGINEER.
2. ALL CASTINGS SHALL BE SHOP PAINTED WITH AN ASPHALTIC BASE PAINT.
3. ALL CASTINGS SHALL INCLUDE "DUMP NO WASTE. DRAINS TO RIVER".

City of Naperville STANDARD DETAIL	BEEHIVE GRATE	STORM 14
	REVISED: 05/15/2015 SHEET 1 OF 1	290.14

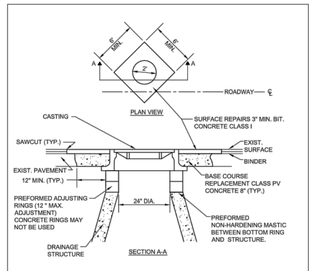


NOTES:

1. FRAME AND GRATE SHALL BE NEENAH R-3525-L, EAST JORDAN 5120, OR EQUAL APPROVED BY THE CITY ENGINEER.
2. ALL CASTING SHALL BE SHOP PAINTED WITH AN ASPHALTIC BASE PAINT.
3. ALL CASTINGS SHALL INCLUDE "DUMP NO WASTE. DRAINS TO RIVER".



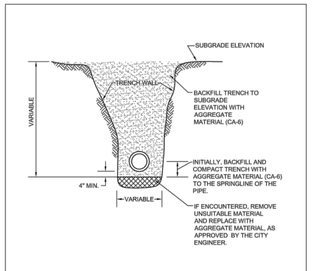
City of Naperville STANDARD DETAIL	FRAME & GRATE FOR B-6.12 CURB & GUTTER (DEPRESSED)	STORM 12
	REVISED: 05/15/2015 SHEET 1 OF 1	290.12



NOTES:

1. ADJUSTMENTS SHALL BE PROTECTED BY A BARRICADE WITH TWO (2) LIGHTS, OR A 1" THICK STEEL PLATE SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR AT LOCATIONS WHERE ADJUSTMENTS ARE LOCATED IN TRAVEL LANES UNTIL THE SURFACE RESTORATION IS COMPLETE. THE PLATE SHALL BE PROTECTED FROM SLIDING AND SHALL HAVE BITUMINOUS RAMPS AS REQUIRED.
2. WHEN ADJUSTMENTS RAISE A CASTING ABOVE THE ELEVATION OF THE EXISTING PAVEMENT SURFACE, A BITUMINOUS MIXTURE SHALL BE PLACED AROUND THE CASTING, TRANSITIONED A DISTANCE OF 1' HORIZONTAL FOR EACH INCH OF VERTICAL DISTANCE ABOVE THE EXISTING PAVEMENT. SUCH RAMPS SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL THE COMPLETION OF THE SURFACE RESTORATION.

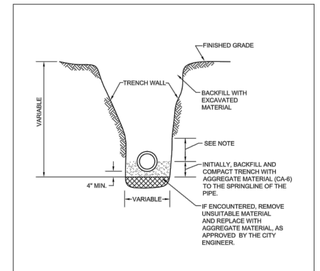
City of Naperville STANDARD DETAIL	CASTING ADJUSTMENTS FOR STRUCTURES IN PAVED AREAS	STORM 15
	REVISED: 08/01/2018 SHEET 1 OF 1	290.15



NOTES:

1. TRENCH BACKFILL MATERIAL SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 550.07 OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. THIS DETAIL SHALL BE USED WHEREVER THE TRENCH IS MADE IN THE PROPOSED ROADWAY SUBGRADE, AND WHEREVER THE INNER EDGE OF THE TRENCH IS CLOSER THAN 2' TO THE EDGE OF THE PROPOSED PAVEMENT, CURB AND GUTTER, AND SIDEWALK.

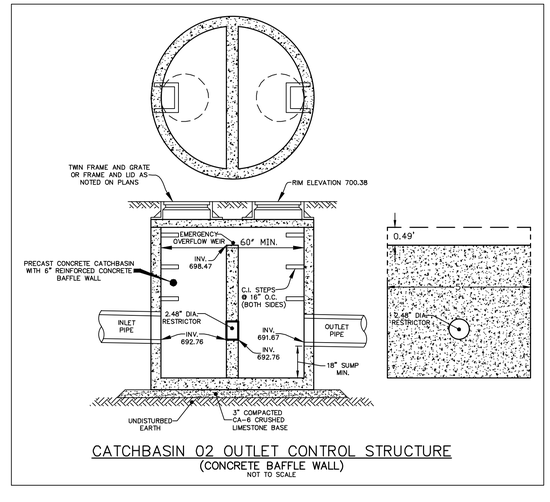
City of Naperville STANDARD DETAIL	STORM SEWER TRENCH SECTION IN PAVED AREAS	STORM 20
	REVISED: 01/01/2013 SHEET 1 OF 1	290.20



NOTE:

FOR PVC AND HDPE PIPE, BACKFILL WITH AGGREGATE MATERIAL (CA-6) TO 6" ABOVE THE TOP OF PIPE.

City of Naperville STANDARD DETAIL	STORM SEWER TRENCH SECTION IN NON-PAVED AREAS	STORM 21
	REVISED: 01/01/2013 SHEET 1 OF 1	290.21



CATCHBASIN 02 OUTLET CONTROL STRUCTURE
(CONCRETE BAFFLE WALL)
NOT TO SCALE

THE WILL GROUP ENGINEERING
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PAGE: N/A	4	3-31-2026	CITY OF NAPERVILLE COMMENTS	M.C.	
DRAWN BY: R.P.					

CITY OF NAPERVILLE STAMPS

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ARCHITECTS
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T 630.904.4300
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NAPERVILLE, ILLINOIS
FOR
NAPERVILLE COMMUNITY UNIT SCHOOL DISTRICT 203
NAPERVILLE, DUPAGE COUNTY, ILLINOIS

REVISIONS

NO.	DATE	DESCRIPTION
1	01-23-2026	CITY OF NAPERVILLE COMMENTS
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3	03-23-2026	CITY OF NAPERVILLE COMMENTS
4	03-31-2026	CITY OF NAPERVILLE COMMENTS

PROJ. NO.
5-2325-34

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R.P. @TWG Engineering

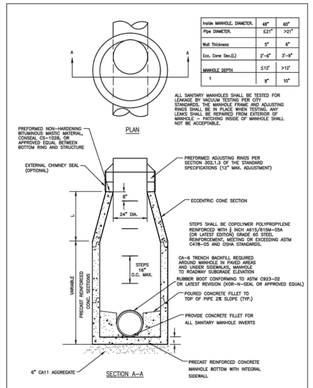
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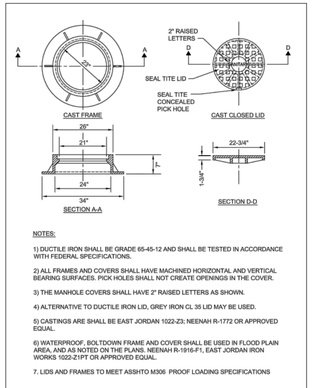
SHEET NO.
C7.4

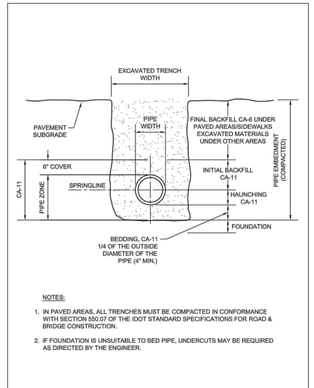
OF 33

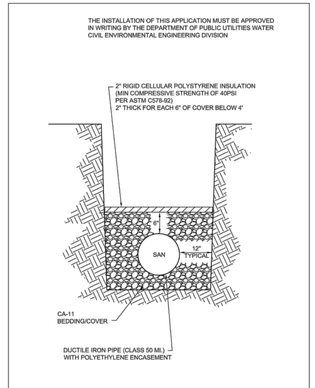
CONSTRUCTION DETAILS (3 OF 4)

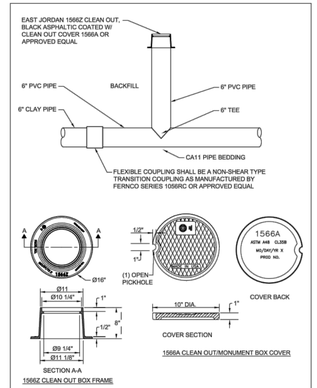
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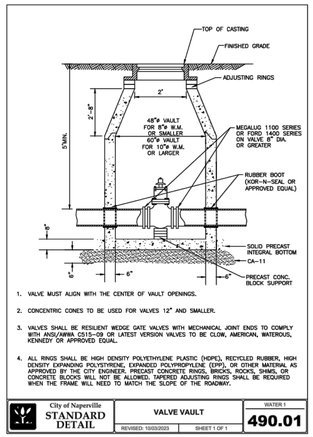


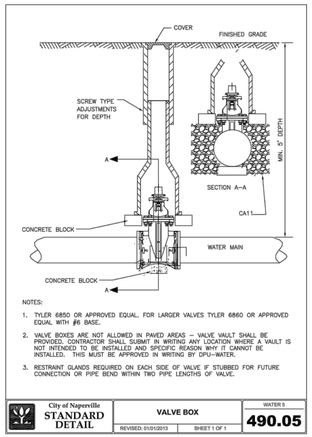


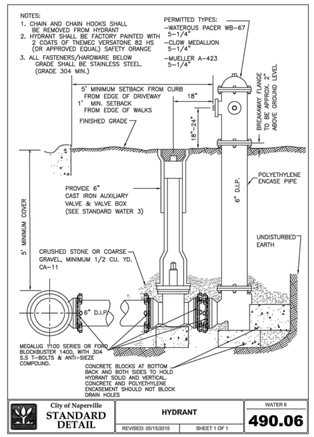


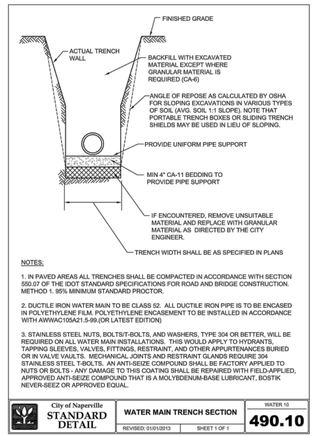


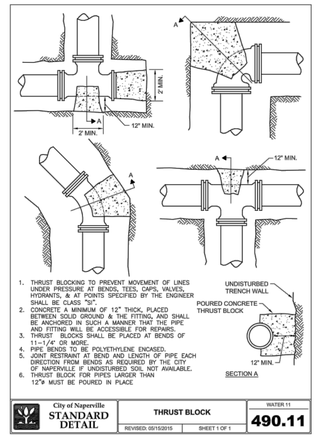


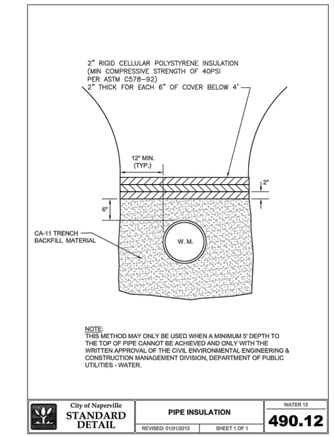


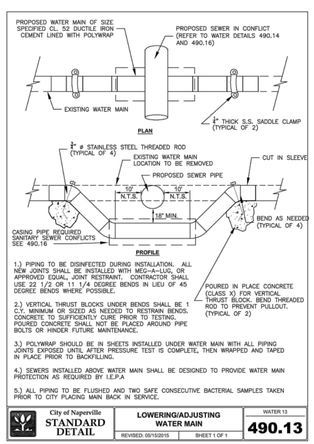


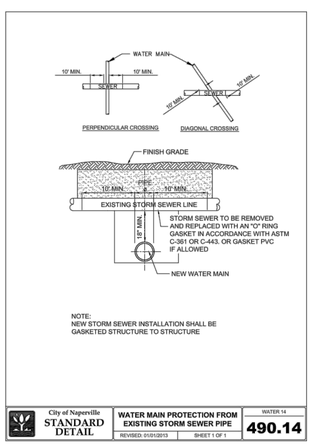






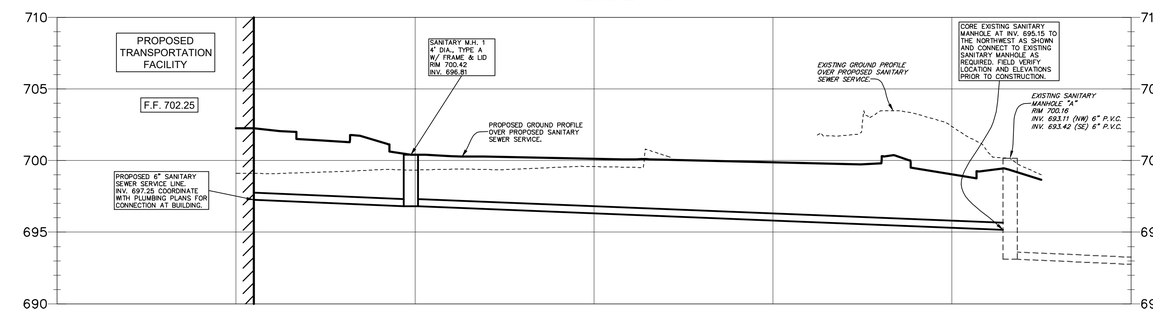






PROFILE OF PROPOSED SANITARY SEWER SERVICE

SCALE: HORIZONTAL 1" = 20'
VERTICAL 1" = 5'



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Invoicing: 401 S. Carlton Avenue, Wheaton, IL 60187 | www.thewillgroup.com

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				325-0400-C1

CITY OF NAPERVILLE STAMPS

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www.healybender.com

NEW TRANSPORTATION FACILITY
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FOR
NAPERVILLE COMMUNITY UNIT SCHOOL DISTRICT 203
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PROJ. NO. 5-2325-34
DRAWN BY R.P. @TWG Engineering
DATE 01-21-2026
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CONSTRUCTION DETAILS (4 OF 4)

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N:\Proj\2025\0400\Engineering\Plan Sheet\C1 - New Transportation Facility\C7.5 - Construction Details 05.dwg Layout: 3 3/31/2026 3:16:20 PM RandyPeoples

StormTrap
MODULAR CONCRETE STORMWATER MANAGEMENT

STORMTRAP

BY SIGNING THIS DOCUMENT YOU AGREE WITH THE PIPE INVERT ELEVATIONS, ACCESS OPENING SIZES AND LOCATIONS, PIPE MATERIAL, PIPE DIAMETERS, AND PIPE LOCATIONS OF THE DRAWINGS DATED 03/31/2026 IN ADDITION YOU AGREE WITH THE GENERAL LAYOUT OF THE BASIN AND BASIN HEIGHT, MIN AND MAX COVER OVERTOP THE SYSTEM, DELIVERY NOTES AND ALL SPECIFIC DESIGN ELEMENTS CONTAINED HEREIN. THE STRUCTURAL INTEGRITY OF THE SYSTEM IS THE RESPONSIBILITY OF STORMTRAP.

GENERAL CONTRACTOR: _____ DATE: ____/____/_____
APPROVED: ☐ APPROVED WITH CHANGES: ☐ REJECTED: ☐

CIVIL ENGINEER: _____ DATE: ____/____/_____
APPROVED: ☐ APPROVED WITH CHANGES: ☐ REJECTED: ☐

INSTALLING CONTRACTOR: _____ DATE: ____/____/_____
APPROVED: ☐ APPROVED WITH CHANGES: ☐ REJECTED: ☐

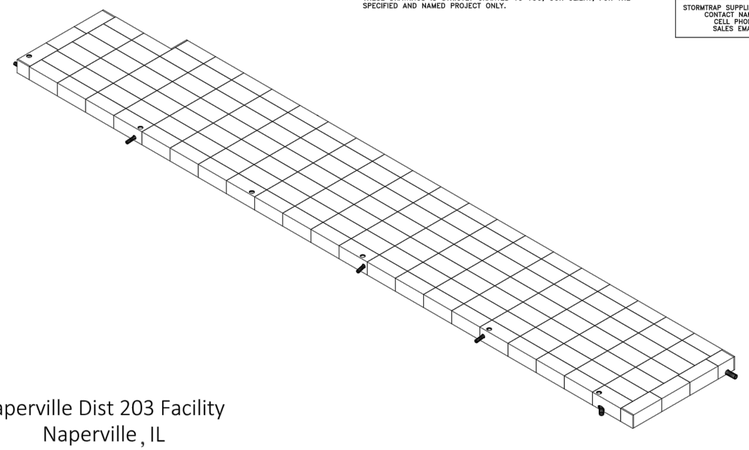
THE STORMTRAP DRAWINGS SHALL NOT BE ALTERED OR MANIPULATED IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT OF STORMTRAP. USE OF THESE DRAWINGS IS STRICTLY GRANTED TO YOU, OUR CLIENT, FOR THE SPECIFIED AND NAMED PROJECT ONLY.

SHEET INDEX

PAGE	DESCRIPTION
0.0	COVER SHEET
1.0	GENERAL NOTES
1.1	SINGLETRAP DESIGN CRITERIA
2.0	SINGLETRAP SYSTEM LAYOUT
3.0	SINGLETRAP INSTALLATION SPECIFICATION
3.1	SINGLETRAP INSTALLATION SPECIFICATION
4.0	SINGLETRAP BACKFILL SPECIFICATION
5.0	PIPE/ACCESS OPENING SPECIFICATION
6.0	SPLASH PAD & GEOWEB DETAILS
6.1	SPLASH PAD LAYOUT SPECIFICATION
7.0	SINGLETRAP MODULE TYPES

STORMTRAP CONTACT INFORMATION

STORMTRAP SUPPLIER: STORMTRAP
CONTACT NAME: Brian Rieger
CELL PHONE: (815) 258-1261
SALES EMAIL: brieger@stormtrap.com



Naperville Dist 203 Facility
Naperville, IL

StormTrap
PATENTS LISTED AT: [HTTPS://STORMTRAP.COM/PATENT]
1287 WINDHAM PARKWAY
ROMEOVILLE, IL 60446
P:815-941-4549 / F:331-318-5347

ENGINEER INFORMATION:
The Will Group
129 Capista Drive
Shorewood, IL
815-744-6600

PROJECT INFORMATION:
Naperville Dist
203 Facility
Naperville, IL

CURRENT ISSUE DATE:
03/31/2026

ISSUED FOR:
APPROVAL

REV.	DATE:	ISSUED FOR:	DWN BY:
A	3/31/2026	APPROVAL	KS
4	3/20/2026	APPROVAL	KS
3	2/17/2026	APPROVAL	JPH
2	1/29/2026	PRELIMINARY	JPH
1	12/02/2025	PRELIMINARY	LR

SCALE:
NTS

SHEET TITLE:
COVER SHEET

SHEET NUMBER:
0.0

GENERAL NOTES:

1. STRUCTURE PROXIMITY LOADING DISCLAIMER:

   STORMTRAP MODULES AND FOUNDATION ARE NOT DESIGNED TO ACCEPT ANY ADDITIONAL LOADING FROM ANY NEARBY STRUCTURES NEXT TO OR OVER THE TOP OF STORMTRAP. EXAMPLES OF NEARBY STRUCTURES MAY INCLUDE BUT ARE NOT LIMITED TO BUILDINGS, FOUNDATION ELEMENTS, RETAINING WALLS, LIGHT POLES, BOLLARDS, SIGNPOSTS, FENCES. ADDITIONALLY, STORMTRAP IS NOT RESPONSIBLE FOR INSTALLATION CONFLICTS ARISING FROM ANY OF THESE NEARBY STRUCTURES. IF ADDITIONAL LOADING CONSIDERATIONS ARE REQUIRED FOR STRUCTURAL DESIGN OF STORMTRAP, PLEASE CONTACT STORMTRAP IMMEDIATELY. FOR LIGHT POLES SHOWN OVER THE TOP OF THE SYSTEM, STORMTRAP WILL PROVIDE A 5'-0" LATERAL DISTANCE CAVITY AROUND THE LIGHT POLE TO ACCOMMODATE IT. THE EOR TO TAKE RESPONSIBILITY FOR ENSURING THE LIGHT POLE IS NOT INFLICTING ANY LOADING ON THE STORMTRAP MODULES AND FOUNDATION.

2. TREE LOADING DISCLAIMER:

   THE NUMBER OF TREES OR WEIGHT OF TOTAL PLANT MATERIAL PRESENT ON TOP OF A SINGLE STORMTRAP MODULE SHALL NOT EXCEED 16,000 LBS. THE REQUIREMENTS LISTED HERE APPLY AT BOTH THE TIME OF INSTALLATION AND FOR THE LIFE OF THE TREES AND PLANTS IN QUESTION. THE EOR AND LANDSCAPE ARCHITECT ARE RESPONSIBLE FOR ENSURING THAT TREE AND OTHER PLANT ROOTS DO NOT INTERFERE WITH OR COMPROMISE THE FUNCTIONAL AND STRUCTURAL INTEGRITY OF STORMTRAP'S UNDERGROUND MODULES. APPROPRIATE MEASURES SHOULD BE TAKEN TO PREVENT ROOT GROWTH INTO THE STORMTRAP SYSTEM FROM ADJACENT OR OVERHEAD TREES. FURTHERMORE, THE ROOTS OF THE TREES MUST BE CONTAINED TO PREVENT FUTURE DAMAGE TO THE STORMTRAP SYSTEM. STORMTRAP ACCEPTS NO LIABILITY FOR DAMAGES CAUSED BY TREES OR OTHER VEGETATION PLACED AROUND OR ON TOP OF THE SYSTEM.

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HEALY BENDER PATTON & BEEN
ARCHITECTS
4040 Helene Avenue
Naperville, IL 60564
T 630.904.4300
www.healybender.com

NEW TRANSPORTATION FACILITY
NAPERVILLE COMMUNITY UNIT SCHOOL DISTRICT 203
NAPERVILLE, ILLINOIS
FOR
NAPERVILLE COMMUNITY UNIT SCHOOL DISTRICT 203
NAPERVILLE, DUPAGE COUNTY, ILLINOIS

STRUCTURAL DESIGN LOADING CRITERIA	
LIVE LOADING:	AASHTO HS-20 HIGHWAY LOADING
GROUND WATER TABLE:	BELOW INVERT OF SYSTEM
SOIL BEARING PRESSURE:	4000 PSF
SOIL DENSITY:	120 PCF
EQUIVALENT UNSATURATED LATERAL ACTIVE EARTH PRESSURE:	35 PSF / FT.
EQUIVALENT SATURATED LATERAL ACTIVE EARTH PRESSURE:	80 PSF/FT. (IF WATER TABLE PRESENT)
APPLICABLE CODES:	ASTM C857 ACI-318
BACKFILL TYPE:	SEE SHEET 4.0 FOR BACKFILL OPTIONS

STORMTRAP SYSTEM INFORMATION
UNIT HEADROOM: 5'-8" SINGLETRAP

SITE SPECIFIC DESIGN CRITERIA

1. STORMTRAP UNITS SHALL BE MANUFACTURED AND INSTALLED ACCORDING TO SHOP DRAWINGS APPROVED BY THE INSTALLING CONTRACTOR AND ENGINEER OF RECORD. THE SHOP DRAWINGS SHALL INDICATE SIZE AND LOCATION OF ROOF OPENINGS AND INLET/ OUTLET PIPE TYPES, SIZES, INVERT ELEVATIONS AND SIZE OF OPENINGS.
2. COVER RANGE: MIN. 1.33' MAX. 3.76' CONSULT STORMTRAP FOR ADDITIONAL COVER OPTIONS.
3. ALL DIMENSIONS AND SOIL CONDITIONS, INCLUDING BUT NOT LIMITED TO GROUNDWATER AND SOIL BEARING CAPACITY ARE REQUIRED TO BE VERIFIED IN THE FIELD BY OTHERS PRIOR TO STORMTRAP INSTALLATION.
4. FOR STRUCTURAL CALCULATIONS THE GROUND WATER TABLE IS ASSUMED TO BE BELOW INVERT OF SYSTEM IF WATER TABLE IS DIFFERENT THAN ASSUMED, CONTACT STORMTRAP.

PCBMP VOLUME CALCULATION

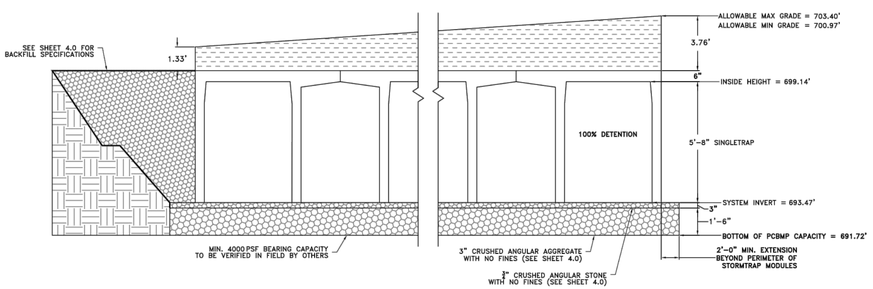
-TOTAL PCBMP STORAGE REQUIRED = 12,063.00 CUBIC FEET

-TOTAL PCBMP STORAGE PROVIDED = 12,615.75 CUBIC FEET (ELEV 693.47' - ELEV 691.72', 36% STONE VOID)

DETENTION VOLUME CALCULATION

-TOTAL WATER STORAGE REQUIRED = 82,808.00 CUBIC FEET

-TOTAL WATER STORAGE PROVIDED = 93,752.43 CUBIC FEET (ELEV 699.14' - ELEV 693.47', 100% IN SYSTEM)



5'-8" SINGLETRAP

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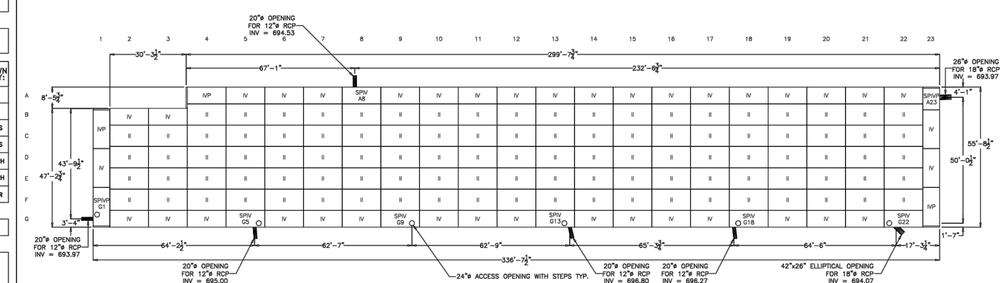
SHEET TITLE:
SINGLETRAP DESIGN CRITERIA

SHEET NUMBER:
1.1

BILL OF MATERIALS			
QTY.	UNIT TYPE	DESCRIPTION	WEIGHT
103	II	5'-8" SINGLETRAP	18762
48	IV	5'-8" SINGLETRAP	17685
1	SPIV	5'-8" SINGLETRAP	VARIES
1	T2 PANEL	6" THICK PANEL	3893
4	T4 PANEL	6" THICK PANEL	3064
29	JOINTWRAP	150' PER ROLL	
TOTAL PIECES = 152			
TOTAL PANELS = 5			
HEAVIEST PICK WEIGHT = 18,805			

DESIGN CRITERIA
ALLOWABLE MAX GRADE = 703.40'
ALLOWABLE MIN GRADE = 700.97'
INSIDE HEIGHT ELEVATION = 699.14'
SYSTEM INVERT = 693.47'

NOTES:
1. DIMENSIONING OF STORMTRAP SYSTEM SHOWN BELOW ALLOW FOR A 3/4" GAP BETWEEN EACH MODULE.
2. ALL DIMENSIONS TO BE VERIFIED IN THE FIELD BY OTHERS.
3. SEE SHEET 3.0 FOR INSTALLATION SPECIFICATIONS.
4. SP – INDICATES A MODULE WITH MODIFICATIONS.
5. P – INDICATES A MODULE WITH A PANEL ATTACHMENT.
6. CONTRACTORS RESPONSIBILITY TO ENSURE CONSISTENCY/ACCURACY TO FINAL ENGINEER OF RECORD PLAN SET.
7. IN ORDER FOR STORMTRAP TO GENERATE APPROVAL DRAWINGS, CIVIL ENGINEERING DRAWINGS MUST BE PROVIDED TO STORMTRAP AND SHALL INCLUDE ALL PIPE SIZES, PIPE MATERIAL, PIPE INVERT ELEVATIONS, ACCESS OPENING SIZE AND SHAPE. IN ADDITION, FINAL GRADING PLANS SHALL ALSO INCLUDE MINIMUM AND MAXIMUM GRADES OVER THE TOP OF THE STORMTRAP SYSTEM.



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SCALE:
NTS

SHEET TITLE:
SINGLETRAP SYSTEM LAYOUT

SHEET NUMBER:
2.0

REVISIONS			
NO.	DATE	DESCRIPTION	
1	01-23-2026	CITY OF NAPERVILLE COMMENTS	
2	02-20-2026	CITY OF NAPERVILLE COMMENTS	
3	03-23-2026	CITY OF NAPERVILLE COMMENTS	
4	03-31-2026	CITY OF NAPERVILLE COMMENTS	

PROJ. NO.
5-2325-34

DRAWN BY
R.P. @TWG Engineering

DATE
01-21-2026

SHEET NO.
C8.1

OF 33

STORMTRAP DETAILS (1 OF 3)

THE WILL GROUP ENGINEERING
Main Address: 129 Capista Drive, Shorewood, IL 60404 | Phone: 815-744-6600
Invoicing: 401 S. Carlton Avenue, Wheaton, IL 60187 | www.thewillgroup.com

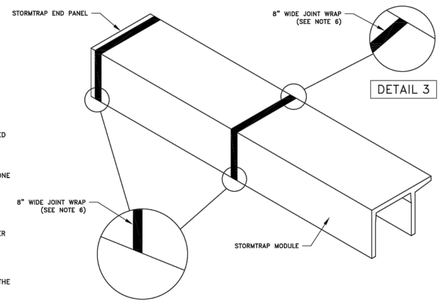
DATE CREATED: 10-07-2025				
FIELD BK: BY OTHERS	LATEST TWG ENGINEERING REVISION			TWG Dwg. No.:
PAGE: N/A	No.	DATE	DESCRIPTION	BY
DRAWN BY: R.P.	4	3-31-2026	CITY OF NAPERVILLE COMMENTS	M.C.
				325-0400-C1

CITY OF NAPERVILLE STAMPS

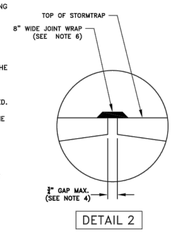
COPYRIGHT © 2026 HEALY BENDER PATTON & BEEN ARCHITECTS
N:\Work\2025\0400\Engineering\Plan Sheet\C1 - New Transportation Facility\C8.1 - StormTrap Details (1 of 3).vwx, Layout: 1 3/31/2026 2:15:31 PM, RaviaPhillips

STORMTRAP INSTALLATION SPECIFICATION

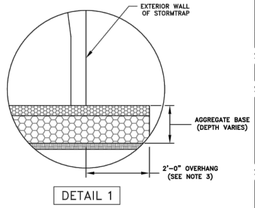
1. STORMTRAP SHALL BE INSTALLED IN ACCORDANCE WITH ASTM C891 (STANDARD PRACTICE FOR INSTALLATION OF UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES). THE FOLLOWING ADDITIONS AND/OR EXCEPTIONS ARE PROVIDED FOR EMPHASIS. THE MENTION OF THESE ITEMS DOES NOT PRECLUDE THE INSTALLING CONTRACTOR FROM FOLLOWING ASTM C891 IN ITS ENTIRETY AND IMPLEMENTING ALL APPROPRIATE MEASURES. THE INSTALLING CONTRACTOR OWNS AND IS RESPONSIBLE FOR THE STORMTRAP SYSTEM UPON REMOVAL OF THE MODULES FROM THE DELIVERY TRUCK THROUGH 'FINAL CONSTRUCTION'. FINAL CONSTRUCTION IS ACHIEVED WHEN ALL MODULES ARE SET, FULLY BACKFILLED, AND WHEN FINAL FINISHED GRADES ARE REACHED. THE CONTRACTOR IS RESPONSIBLE FOR ANY COUNTERMEASURES NECESSARY TO RESIST UPLIFT/BUOYANCY BEFORE 'FINAL CONSTRUCTION' IS ACHIEVED.
2. IT IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO ENSURE THAT PROPER/ADEQUATE EQUIPMENT IS USED TO SET/INSTALL THE MODULES.
3. THE AGGREGATE FOUNDATION HAS BEEN DESIGNED BASED ON THE FOLLOWING ASSUMPTIONS. THESE ASSUMPTIONS WILL NEED TO BE VERIFIED BY A GEOTECHNICAL ENGINEER WHICH WILL NEED TO BE EMPLOYED BY THE OWNER.
   - 3.1. A QUALIFIED GEOTECHNICAL ENGINEER WILL BE EMPLOYED, BY OWNER, TO PROVIDE ASSISTANCE IN EVALUATING THE EXISTING SOIL CONDITIONS BELOW THE PROPOSED ENGINEERED STONE FOUNDATION. IF A STONE FOUNDATION DESIGN IS TO BE USED, THE BEARING PRESSURE OF THE SOILS BELOW THE STONE WILL NEED TO MEET OR EXCEED ALLOWABLE CAPACITY. IF THIS IS NOT POSSIBLE, THE STONE FOUNDATION MAY NOT BE AN OPTION FOR THIS LOCATION.
   - 3.2. A QUALIFIED GEOTECHNICAL ENGINEER WILL BE EMPLOYED, BY OWNER, TO EVALUATE A SOURCE OF STONE AGGREGATES THAT WILL BE PLACED ON PROPERLY COMPACTED SOILS (SEE SHEET 1.1 FOR SOIL BEARING CAPACITY REQUIREMENTS). THE AGGREGATE BASE COURSE FOR WHICH THE STORMTRAP SYSTEM WILL BEAR DIRECTLY ON SHALL CONSIST OF A 1" THICK BED OF ¾" DIAMETER ANGULAR STONE, WELL COMPACTED AND SEATED, WITH NO FINES. AND A 1'-6" THICK BED OF 3" ANGULAR AGGREGATE (SEE SHEET 4.0 FOR FURTHER DESCRIPTION/EXPLANATION). PLEASE NOTE THAT THESE ARE ONLY MINIMUM RECOMMENDATIONS AND A QUALIFIED GEOTECHNICAL ENGINEER SHALL BE USED TO DETERMINE THE EXACT REQUIREMENTS FOR THE LOCATIONS THAT THE STORMTRAP SYSTEM IS TO BE LOCATED.
   - 3.3. THE CONTRACTOR SHALL REMOVE ANY AND ALL EXPANDABLE OR COLLAPSIBLE SOILS AT THE DIRECTION OF A QUALIFIED GEOTECHNICAL ENGINEER.
   - 3.4. THE AGGREGATE FOUNDATION SHALL BE INSTALLED SUCH THAT THE AGGREGATE EXTENDS A MINIMUM OF 2'-0" PAST THE OUTSIDE OF THE SYSTEM (SEE DETAIL 1).
   - 3.5. THE ¾" AGGREGATE SHALL BE COMPACTED USING A VIBRATING ROLLER WITH ITS' FULL DYNAMIC FORCE APPLIED TO ACHIEVE A FLAT SURFACE.
   - 3.6. DISK, DRY AND COMPACT THE TOP 8" OF THE SUBGRADE SOILS TO 95% OF THE STANDARD DRY DENSITY AND 110% OPTIMUM MOISTURE CONTENT.
   - 3.7. AGGREGATE SHALL BE GRADED WITHIN +/- ½" OF THE GRADE SHOWN ON THE PLANS.
   - 3.8. MINIMUM SOIL BEARING CAPACITY LISTED ON SHEET 1.1 SHALL BE VERIFIED IN FIELD BY OTHERS.
4. THE STORMTRAP MODULES SHALL BE PLACED SUCH THAT THE MAXIMUM SPACE BETWEEN ADJACENT MODULES DOES NOT EXCEED 2" (SEE DETAIL 2). IF THE SPACE EXCEEDS 2", THE MODULES SHALL BE RESET WITH APPROPRIATE ADJUSTMENT MADE TO LINE AND GRADE TO BRING THE SPACE INTO SPECIFICATION.
5. STORMTRAP MODULES ARE NOT WATERTIGHT.
6. ALL EXTERIOR ROOF AND EXTERIOR VERTICAL WALL JOINTS BETWEEN ADJACENT STORMTRAP MODULES SHALL BE SEALED WITH 8" WIDE PRE-FORMED, COLD-APPLIED, SELF-ADHERING ELASTOMERIC RESIN, BONDED TO A WOVEN , HIGHLY PUNCTURE RESISTANT POLYMER WRAP, CONFORMING TO ASTM C891 AND SHALL BE INTEGRATED WITH PRIMER SEALANT AS APPROVED BY STORMTRAP (SEE DETAILS 2, 3, & 4). THE JOINT WRAP DOES NOT PROVIDE A WATERTIGHT SEAL. THE SOLE PURPOSE OF THE JOINT WRAP IS TO PROVIDE A SILT AND SOIL TIGHT SYSTEM. THE ADHESIVE EXTERIOR JOINT WRAP SHALL BE INSTALLED ACCORDING TO THE FOLLOWING INSTALLATION INSTRUCTIONS:
   - 6.1. USE A BRUSH OR WET CLOTH TO THOROUGHLY CLEAN THE OUTSIDE SURFACE AT THE POINT WHERE THE JOINT WRAP IS TO BE APPLIED.
   - 6.2. A RELEASE PAPER PROTECTS THE ADHESIVE SIDE OF THE JOINT WRAP. PLACE THE ADHESIVE TAPE (ADHESIVE SIDE DOWN) AROUND THE STRUCTURE, REMOVING THE RELEASE PAPER AS YOU GO. PRESS THE JOINT WRAP FIRMLY AGAINST THE STORMTRAP MODULE SURFACE WHEN APPLYING.
7. IF THE CONTRACTOR NEEDS TO CANCEL ANY SHIPMENTS, THEY MUST DO SO 48 HOURS PRIOR TO THEIR SCHEDULED ARRIVAL AT THE JOB SITE. IF CANCELED AFTER THAT TIME, PLEASE CONTACT THE PROJECT MANAGER.
8. IF THE STORMTRAP MODULE(S) IS DAMAGED IN ANY WAY PRIOR, DURING, OR AFTER INSTALL, STORMTRAP, MUST BE CONTACTED IMMEDIATELY TO ASSESS THE DAMAGE AND TO DETERMINE WHETHER OR NOT THE MODULE(S) WILL NEED TO BE REPLACED. IF ANY MODULE ARRIVES AT THE JOBSITE DAMAGED DO NOT UNLOAD IT; CONTACT STORMTRAP, IMMEDIATELY. ANY DAMAGE NOT REPORTED BEFORE THE TRUCK IS UNLOADED WILL BE THE CONTRACTOR'S RESPONSIBILITY.
9. STORMTRAP MODULES CANNOT BE ALTERED IN ANY WAY AFTER MANUFACTURING WITHOUT WRITTEN CONSENT FROM STORMTRAP.



DETAIL 4



DETAIL 2



DETAIL 1

DETAIL 3

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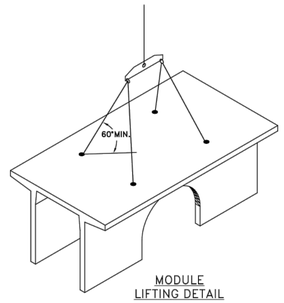
SCALE: NTS

SHEET TITLE: SINGLETRAP INSTALLATION SPECIFICATION

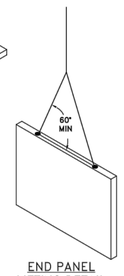
SHEET NUMBER: 3.0

STORMTRAP MODULE LIFTING SPECIFICATION

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL (4) CHAINS/CABLES ARE SECURED PROPERLY TO THE LIFTING ANCHORS AND IN EQUAL TENSION WHEN LIFTING THE STORMTRAP MODULE.
2. MINIMUM 7'-0" CHAIN/CABLE LENGTH TO BE USED TO LIFT STORMTRAP MODULES (SUPPLIED BY CONTRACTOR).
3. CONTRACTOR TO ENSURE MINIMUM LIFTING ANGLE IS 60° FROM TOP SURFACE OF STORMTRAP MODULE. SEE DETAIL.
4. IT IS UNDERSTOOD AND AGREED THAT AT ALL TIMES DURING WHICH HOISTING AND RIGGING EQUIPMENT IS BEING SUPPLIED TO THE PURCHASER, OPERATOR OF SUCH EQUIPMENT SHALL BE IN CHARGE OF HIS ENTIRE EQUIPMENT AND SHALL AT ALL TIMES BE THE JUDGE OF THE SAFETY AND PROPERTY OF ANY SUGGESTION TO HIM FROM THE SELLER, ITS AGENTS OR EMPLOYEES. PURCHASER AGREES TO SAVE, INDEMNIFY AND HOLD HARMLESS SELLER FROM ALL LOSS, CLAIMS, DEMANDS OR CAUSES OF ACTION, WHICH MAY ARISE FROM THE EXISTENCE OR OPERATION OF SAID EQUIPMENT.



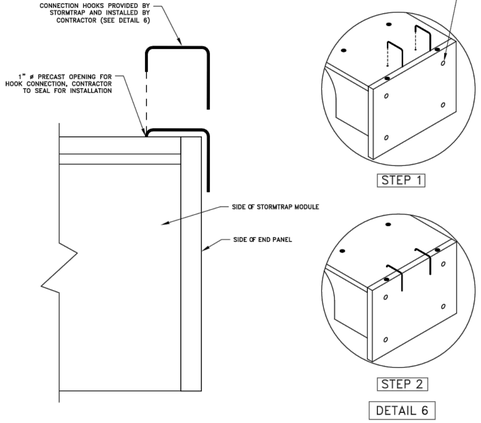
MODULE LIFTING DETAIL



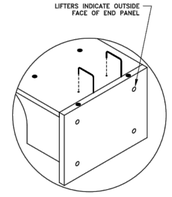
END PANEL LIFTING DETAIL

END PANEL ERECTION/INSTALLATION SPECIFICATION

1. END PANELS WILL BE SUPPLIED TO CLOSE OFF OPEN ENDS OF ROWS.
2. PANELS SHALL BE INSTALLED IN A TILT UP FASHION DIRECTLY ADJACENT TO OPEN END OF MODULE (REFER TO SHEET 2.0 FOR END PANEL LOCATIONS). SIDE WITH LIFTERS INDICATES OUTSIDE FACE.
3. CONNECTION HOOKS WILL BE SUPPLIED WITH END PANELS TO SECURELY CONNECT PANEL TO ADJACENT STORMTRAP MODULE (SEE PANEL CONNECTION ELEVATION VIEW).
4. ONCE CONNECTION HOOK IS ATTACHED, LIFTING CLUTCHES MAY BE REMOVED.
5. JOINT WRAP SHALL BE PLACED AROUND PERIMETER JOINT PANEL (SEE SHEET 3.0).



PANEL CONNECTION ELEVATION VIEW



STEP 1

STEP 2

DETAIL 6

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SCALE: NTS

SHEET TITLE: SINGLETRAP INSTALLATION SPECIFICATION

SHEET NUMBER: 3.1

HEALY BENDER PATTON & BEEN
ARCHITECTS
4040 Helene Avenue
Naperville, IL 60564
T 630.904.4300
www.healybender.com

NEW TRANSPORTATION FACILITY FOR
NAPERVILLE COMMUNITY UNIT SCHOOL DISTRICT 203
NAPERVILLE, ILLINOIS
NAPERVILLE COMMUNITY UNIT SCHOOL DISTRICT 203
NAPERVILLE, DUPAGE COUNTY, ILLINOIS

ZONE CHART		
ZONES	ZONE DESCRIPTIONS	REMARKS
ZONE 1A	FOUNDATION AGGREGATE	#5 (2") STONE ANGULAR AGGREGATE (SEE NOTE 4 FOR DESCRIPTION)
ZONE 1B	FOUNDATION AGGREGATE (INFILTRATION NOT ALLOWED)	3" RECYCLED CRUSHED CONCRETE (SEE NOTES 5 & 6 FOR DESCRIPTION)
	FOUNDATION AGGREGATE (INFILTRATION ALLOWED)	3" STONE AGGREGATE (SEE NOTE 5)
ZONE 2	BACKFILL	UNIFIED SOILS CLASSIFICATION (GW, GP, SW, SP) OR SEE BELOW FOR APPROVED BACKFILL OPTIONS
ZONE 3	FINAL COVER OVERTOP	MATERIALS NOT TO EXCEED 120 PCF

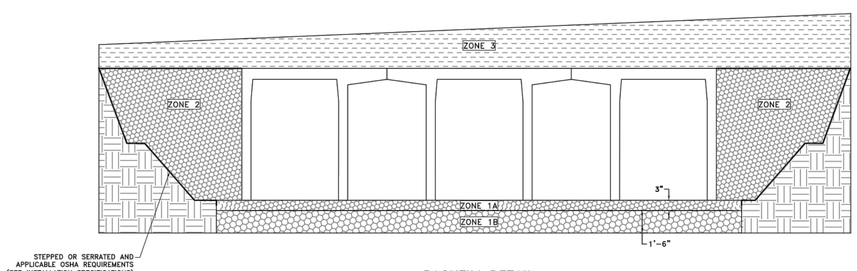
APPROVED ZONE 2 BACKFILL OPTIONS	
OPTION	REMARKS
¾" STONE AGGREGATE	THE STONE AGGREGATE SHALL CONSIST OF CLEAN AND FREE DRAINING ANGULAR MATERIAL. THE SIZE OF THIS MATERIAL SHALL HAVE 100% PASSING THE 1" SIEVE WITH 0% TO 5% PASSING THE #8 SIEVE. ASTM SIZE #57 AS DETERMINED BY THE GEOTECHNICAL ENGINEER.

FILL DEPTH	TRACK WIDTH	MAX VEHICLE WEIGHT (KIPS)	MAX GROUND PRESSURE
12"	12"	51.8	1690 psf
	18"	56.1	1219 psf
	24"	68.1	1111 psf
	30"	76.7	1000 psf
	36"	85.0	924 psf

NOTE:
TRACK LENGTH NOT TO EXCEED 15'-4".
ONLY TWO TRACKS PER VEHICLE.

STORMTRAP ZONE INSTALLATION SPECIFICATION/PROCEDURE

1. THE FILL PLACED AROUND THE STORMTRAP MODULES MUST BE DEPOSITED ON BOTH SIDES AT THE SAME TIME AND TO APPROXIMATELY THE SAME ELEVATION. AT NO TIME SHALL THE FILL BEHIND ONE SIDE WALL BE MORE THAN 2'-0" HIGHER THAN THE FILL ON THE OPPOSITE SIDE. BACKFILL SHALL EITHER BE COMPACTED AND/OR VIBRATED TO ENSURE THAT BACKFILL AGGREGATE/STONE MATERIAL IS WELL SEATED AND PROPERLY INTER LOCKED. CARE SHALL BE TAKEN TO PREVENT ANY WEDGING ACTION AGAINST THE STRUCTURE, AND ALL SLOPES WITHIN THE AREA TO BE BACKFILLED MUST BE STEPPED OR SERRATED TO PREVENT WEDGING ACTION. CARE SHALL ALSO BE TAKEN AS NOT TO DISRUPT THE JOINT WRAP FROM THE JOINT DURING THE BACKFILL PROCESS. BACKFILL MUST BE FREE-DRAINING MATERIAL. SEE ZONE 2 BACKFILL CHART ON THIS PAGE FOR APPROVED BACKFILL OPTIONS. IF NATIVE EARTH IS SUSCEPTIBLE TO MIGRATION, CONFIRM WITH GEOTECHNICAL ENGINEER AND PROVIDE PROTECTION AS REQUIRED (PROVIDED BY OTHERS). ALL MODULES MUST BE SET AND ALL SIDES MUST BE FULLY BACKFILLED BEFORE TRAVEL OVERTOP THE SYSTEM IS PERMITTED. SEE NOTE 2 FOR EXCEPTIONS AND LIMITATIONS.
2. THE FILL PLACED OVERTOP THE SYSTEM SHALL BE PLACED IN MINIMUM 6" LIFTS. AT NO TIME SHALL MACHINERY OR VEHICLES GREATER THAN THE DESIGN LIVE LOAD LISTED ON SHEET 1.1 TRAVEL OVERTOP THE SYSTEM. IF TRAVEL OVER THE SYSTEM OCCURS BEFORE THE MINIMUM DESIGN COVER IS ACHIEVED, IT MAY BE NECESSARY TO REDUCE THE ULTIMATE LOAD/BURDEN OF THE OPERATING MACHINERY SO AS TO NOT EXCEED THE DESIGN CAPACITY OF THE SYSTEM. VEHICLES AND MACHINERY USED TO PLACE FILL MATERIAL ON TOP OF THE SYSTEM SHALL TRAVEL PARALLEL TO THE LONGITUDINAL AXIS OF THE STORMTRAP MODULES WHENEVER POSSIBLE.
3. THE VIBRATORY FUNCTION OF ANY ROLLER, COMPACTOR, VEHICLE, ETC. SHALL NOT BE USED OVERTOP THE SYSTEM WITHOUT PRIOR APPROVAL FROM STORMTRAP. IN SOME CASES, HAND COMPACTION MAY BE NECESSARY TO ENSURE THAT THE ALLOWABLE DESIGN LOADING IS NOT EXCEEDED.
4. FREE DRAINING ANGULAR AGGREGATE – 80% AGGREGATE RETAINED ON ½" SIEVE MAJORITY OF AGGREGATE SIZE BETWEEN ¾" AND 1" ONLY 5% OF MATERIAL PASSING #8 SIEVE.
5. FREE DRAINING, NO FINES, 3" ANGULAR AGGREGATE – MAJORITY OF STONE SIZE IN BETWEEN 1½" AND 3" – VERY SIMILAR TO AASHTO (#1, #2, #3, & #24) STONE AGGREGATE GRADATION.
6. CRUSHED CONCRETE AGGREGATE IS KNOWN TO REACT WITH WATER AND CAN INCREASE THE PH VALUE OF THE GROUND WATER. PRIOR TO USING CRUSHED CONCRETE AGGREGATE IN ZONE 1B IT IS IMPERATIVE THAT THE USE OF SUCH MATERIAL SHALL BE VERIFIED BY THE EOR AND/OR THE PROJECT GEOTECHNICAL ENGINEER.



BACKFILL DETAIL

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PATENTS LISTED AT: [HTTPS://STORMTRAP.COM/PATENTS]
1287 WINDHAM PARKWAY
ROMEOVILLE, IL 60446
P:815-941-4549 / F:331-318-5347

ENGINEER INFORMATION:
The Will Group
129 Capista Drive
Shorewood, IL
815-744-6600

PROJECT INFORMATION:
Naperville Dist 203 Facility
Naperville, IL

CURRENT ISSUE DATE:
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SCALE: NTS

SHEET TITLE: SINGLETRAP BACKFILL SPECIFICATION

SHEET NUMBER: 4.0

ACCESS OPENING SPECIFICATION

1. A TYPICAL ACCESS OPENING FOR THE STORMTRAP SYSTEM ARE 2'-0" IN DIAMETER. ACCESS OPENINGS LARGER THAN 4'-0" IN DIAMETER NEED TO BE APPROVED BY STORMTRAP. ALL OPENINGS MUST RETAIN AT LEAST 2'-0" OF CLEARANCE FROM THE END OF THE STORMTRAP MODULE UNLESS NOTED OTHERWISE. ALL ACCESS OPENINGS TO BE LOCATED ON INSIDE LEG UNLESS OTHERWISE SPECIFIED. SEE SHEET 2.0 FOR SIZES AND LOCATIONS.
2. UNLESS OTHERWISE SPECIFIED, PLASTIC COATED STEPS ARE PROVIDED INSIDE ANY MODULE WHERE DEEMED NECESSARY. THE HIGHEST STEP IN THE MODULE IS TO BE PLACED A DISTANCE OF 1'-0" FROM THE INSIDE EDGE OF THE STORMTRAP MODULES. ALL ENSUING STEPS SHALL BE PLACED AT A DISTANCE BETWEEN 10" MIN AND 14" MAX BETWEEN THEM. STEPS MAY BE MOVED OR ALTERED TO AVOID OPENINGS OR OTHER IRREGULARITIES IN THE MODULE.
3. STORMTRAP LIFTING INSERTS MAY BE RELOCATED TO AVOID INTERFERENCE WITH ACCESS OPENINGS OR THE CENTER OF GRAVITY OF THE MODULE AS NEEDED.
4. STORMTRAP ACCESS OPENINGS MAY BE RELOCATED TO AVOID INTERFERENCE WITH INLET AND/OR OUTLET PIPE OPENINGS SO PLACEMENT OF STEPS IS ATTAINABLE.
5. ACCESS OPENINGS SHOULD BE LOCATED IN ORDER TO MEET THE APPROPRIATE MUNICIPAL REQUIREMENTS. STORMTRAP RECOMMENDS AT LEAST TWO ACCESS OPENINGS PER SYSTEM FOR ACCESS AND INSPECTION.
6. USE PRECAST ADJUSTING RINGS AS NEEDED TO MEET GRADE. STORMTRAP RECOMMENDS FOR COVER OVER 2' TO USE PRECAST BARREL OR CONE SECTIONS. (PROVIDED BY OTHERS)

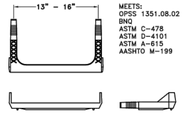
PIPE OPENING SPECIFICATION

1. MINIMUM EDGE DISTANCE FOR AN OPENING ON THE OUTSIDE WALL SHALL BE NO LESS THAN 1'-0".
2. CONNECTING PIPES MAY BE INSTALLED WITH A 1'-0" CONCRETE COLLAR AND AN AGGREGATE CRADLE (AS REQUIRED) FOR AT LEAST ONE PIPE LENGTH (SEE PIPE CONNECTION DETAIL). A STRUCTURAL GRADE CONCRETE OR HIGH STRENGTH, NON-SHRINK GROUT WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI MAY BE USED.
3. THE ANNULAR SPACE BETWEEN THE PIPE AND THE HOLE SHALL BE FILLED WITH HIGH STRENGTH NON-SHRINK GROUT.

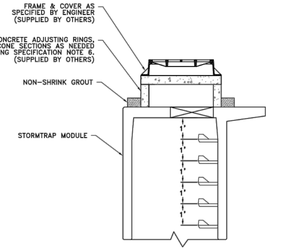
PIPE INSTALLATION INSTRUCTIONS

1. CLEAN AND LIGHTLY LUBRICATE ALL OF THE PIPE TO BE INSERTED INTO STORMTRAP.
2. IF PIPE IS CUT, CARE SHOULD BE TAKEN TO ALLOW NO SHARP EDGES. BEVEL AND LUBRICATE LEAD END OF PIPE.
3. ALIGN CENTER OF PIPE TO CORRECT ELEVATION AND INSERT INTO OPENING.

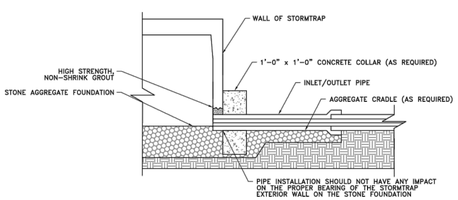
NOTE: ALL ANCILLARY PRODUCTS/SPECIFICATIONS RECOMMENDED AND SHOWN ON THIS SHEET INCLUDING BUT NOT LIMITED TO CONCRETE COLLARS, AGGREGATE CRADLES, GRADE RINGS, RISER SECTIONS, ETC., ARE RECOMMENDATIONS ONLY AND SUBJECT TO CHANGE PER THE INSTALLING CONTRACTOR AND/OR PER LOCAL MUNICIPAL CODE/REQUIREMENTS.



STEP DETAIL



RISER/STAIR DETAIL



PIPE CONNECTION DETAIL WHEN PIPE INVERT IS AT INVERT OF STORMTRAP SYSTEM

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ROMEOVILLE, IL 60446
P:815-941-4549 / F:331-318-5347

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129 Capista Drive
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SCALE: NTS

SHEET TITLE: PIPE / ACCESS OPENING SPECIFICATION

SHEET NUMBER: 5.0

REVISIONS			
NO.	DATE	DESCRIPTION	
1	01-23-2026	CITY OF NAPERVILLE COMMENTS	
2	02-20-2026	CITY OF NAPERVILLE COMMENTS	
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PROJ. NO. 5-2325-34

DRAWN BY R.P. @TWG Engineering

DATE 01-21-2026

SHEET NO. C8.2

OF 33

THE WILL GROUP ENGINEERING
Main Address: 129 Capista Drive, Shorewood, IL 60404 | Phone: 815-744-6600
Invoicing: 401 S. Carlton Avenue, Wheaton, IL 60187 | www.thewillgroup.com

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PAGE: N/A	No.	DATE	DESCRIPTION	BY
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				325-0400-C1

CITY OF NAPERVILLE STAMPS

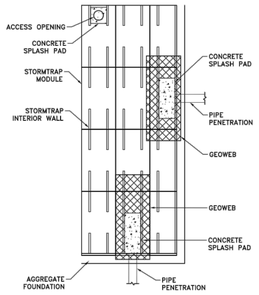
STORMTRAP DETAILS (2 OF 3)

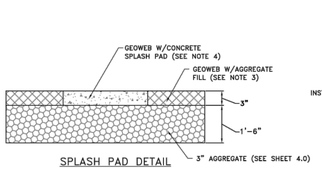
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GEOWEB AND SPLASH PAD INSTALLATION SPECIFICATION

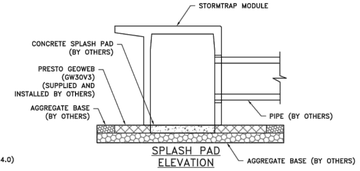
1. THE APPROVED GEOWEB SHALL BE PRESTO GEOWEB (GW30V3). THE GEOWEB NOMINAL DIMENSIONS SHALL BE 9-FT x 25-FT.
2. THE CONCRETE SPLASH PAD AND GEOWEB SHALL BE INSTALLED PRIOR TO INSTALLATION OF THE STORMTRAP MODULES.
3. THE GEOWEB INFILL MATERIAL SHALL BE #5 AGGREGATE.
4. THE CONCRETE SPLASH PAD SHALL BE INSTALLED WITHIN THE GEOWEB AND IS REQUIRED AT ALL PIPE ENTRY LOCATIONS.
5. THE GEOWEB EDGE SHALL BE INSTALLED 1-FT BEYOND THE OUTER PERIMETER OF THE STORMTRAP SYSTEM.
6. THE GEOWEB LONGITUDINAL DIMENSION (25-FT) SHALL BE INSTALLED PARALLEL TO THE STORMTRAP LEGS.
7. THE CONCRETE SPLASH PAD AND GEOWEB SHALL BE CENTERED AT THE PIPE PENETRATION.
8. REFER TO SPLASH PAD LAYOUT FOR CONCRETE SPLASH PAD DIMENSIONS.
9. IF ANY PRODUCT OTHER THAN PRESTO GEOWEB IS TO BE INSTALLED, THE PRODUCT MANUFACTURER IS REQUIRED TO SUBMIT A LETTER STATING THAT THE PRODUCT IS EQUAL OR BETTER THEN PRESTO GEOWEB, BOTH IN PERFORMANCE AND IN STRUCTURAL CAPACITY.
10. ALL GEOWEB AND SPLASH PADS TO BE SUPPLIED AND INSTALLED BY CONTRACTOR.
11. A CONCRETE SPLASH PAD IS REQUIRED AT ANY ACCESS OPENING THAT HAS AN OPEN GRATE FOR DRAINAGE. THE CONCRETE SPLASH PAD SHALL EXTEND BETWEEN THE UNIT LEG WALLS AND 3'-0" FROM THE CENTERLINE OF THE OPENING ON BOTH SIDES UNLESS SPECIFIED OTHERWISE ON THE SPLASH PAD LAYOUT. GEOWEB IS NOT REQUIRED UNDER ACCESS OPENINGS.

SPLASH PAD CONFIGURATION

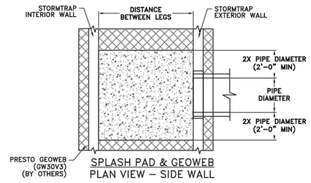




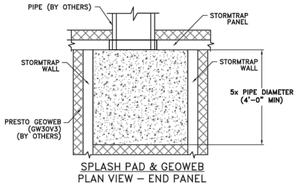
SPLASH PAD DETAIL



SPLASH PAD ELEVATION



SPLASH PAD & GEOWEB
PLAN VIEW – SIDE WALL



SPLASH PAD & GEOWEB
PLAN VIEW – END PANEL

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1287 WINDHAM PARKWAY
ROMEOVILLE, IL 60446
P:815-941-4549 / F:331-318-5347

ENGINEER INFORMATION:

The Will Group
129 Capista Drive
Shorewood, IL
815-744-6600

PROJECT INFORMATION:

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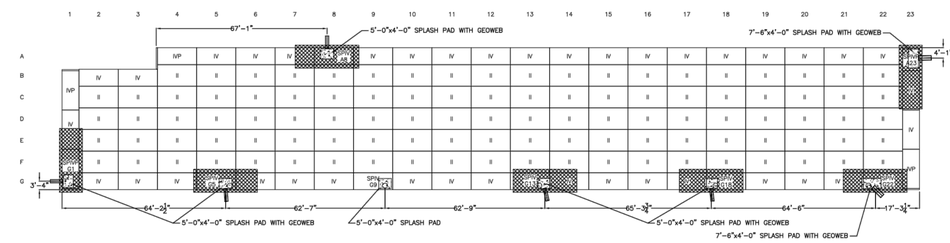
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SCALE: NTS

SHEET TITLE: SPLASH PAD & GEOWEB DETAILS

SHEET NUMBER: 6.0



NOTES:

1. STORMTRAP REQUIRES CONCRETE SPLASH PADS UNDER ALL OPEN GRATES AND ALL PIPE PENETRATIONS WITHIN THE STORMTRAP SYSTEM TO PREVENT DISPLACEMENT OF STONE.
2. IT IS THE INSTALLING CONTRACTOR'S RESPONSIBILITY TO PROVIDE AND INSTALL ALL CONCRETE SPLASH PADS AND GEOWEB PER THE INSTALLATION NOTES AND DETAILS SHOWN ON SHEET 6.0.

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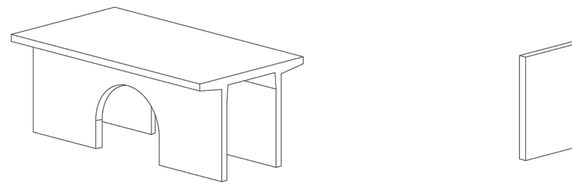
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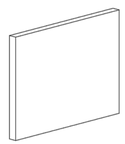
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SHEET TITLE: SPLASH PAD LAYOUT DETAIL

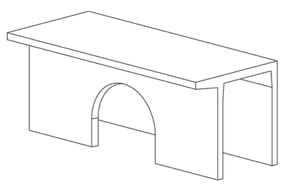
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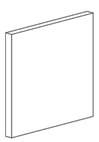
TYPE II



TYPE II END PANEL



TYPE IV



TYPE IV END PANEL

NOTES:
1. OPENING LOCATIONS AND SHAPES MAY VARY.
2. SP – INDICATES A MODULE WITH MODIFICATIONS.
3. P – INDICATES A MODULE WITH A PANEL ATTACHMENT.
4. POCKET WINDOW OPENINGS ARE OPTIONAL.

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SCALE: NTS

SHEET TITLE: SINGLETRAP MODULE TYPES

SHEET NUMBER: 7.0

HEALY BENDER PATTON & BEEN
ARCHITECTS
4040 Helene Avenue
Naperville, IL 60564
T 630.904.4300
www.healybender.com

NEW TRANSPORTATION FACILITY
NAPERVILLE COMMUNITY UNIT SCHOOL DISTRICT 203
NAPERVILLE, ILLINOIS
FOR
NAPERVILLE COMMUNITY UNIT SCHOOL DISTRICT 203
NAPERVILLE, DUPAGE COUNTY, ILLINOIS

REVISIONS

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2	02-20-2026	CITY OF NAPERVILLE COMMENTS
3	03-23-2026	CITY OF NAPERVILLE COMMENTS
4	03-31-2026	CITY OF NAPERVILLE COMMENTS

PROJ. NO. 5-2325-34

DRAWN BY: R.P. @TWG Engineering

DATE: 01-21-2026

SHEET NO. C8.3

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Main Address: 129 Capista Drive, Shorewood, IL 60404 | Phone: 815-744-6600
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4	3-31-2026	CITY OF NAPERVILLE COMMENTS	M.C.

TWG Dwg. No.: 325-0400-C1

CITY OF NAPERVILLE STAMPS

STORMTRAP DETAILS (3 OF 3)

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