# CITY OF MUSKEGON

## MUSKEGON COUNTY, MICHIGAN

# HARTSHORN VILLAGE

## PHASE 2

**-2026-**

**PLAN INDEX**

| SHEET NO. | DESCRIPTION |
|---|---|
| 1 | COVER SHEET |
| 2 | SANITARY SEWER |
| 3 | WATER MAIN |

**UTILITY COMPANIES**

CONSUMERS ENERGY (ELECTRIC)
PO BOX 201
GRAND RAPIDS, MI 49501-0201
(616) 530-4244

AT&T (TELEPHONE)
ROOM 5 (PROJECTS N. OF FRANKLIN ST.)
2ND FLOOR (PROJECTS S. OF FRANKLIN ST.)
955 36TH ST. SE
GRAND RAPIDS, MI 49508
(616) 246-7203 (PROJECTS N. OF FRANKLIN ST.)
(616) 246-7210 (PROJECTS S. OF FRANKLIN ST.)

DTE ENERGY (NATURAL GAS)
444 WEALTHY ST. SW
GRAND RAPIDS, MI 49503
(800) 947-5000

XFINITY/COMCAST (CABLE TV)
955 CENTURY AVE. SW
GRAND RAPIDS, MI 49503
(616) 245-5039

VERIZON BUSINESS (FIBER OPTICS)
2855 OAK INDUSTRIAL DR. NE
GRAND RAPIDS, MI 49505
(616) 224-4944

CENTURY TEL (FIBER OPTICS)
320 N. WASHINGTON SQUARE
LANSING, MI 48933
(989) 239-8110

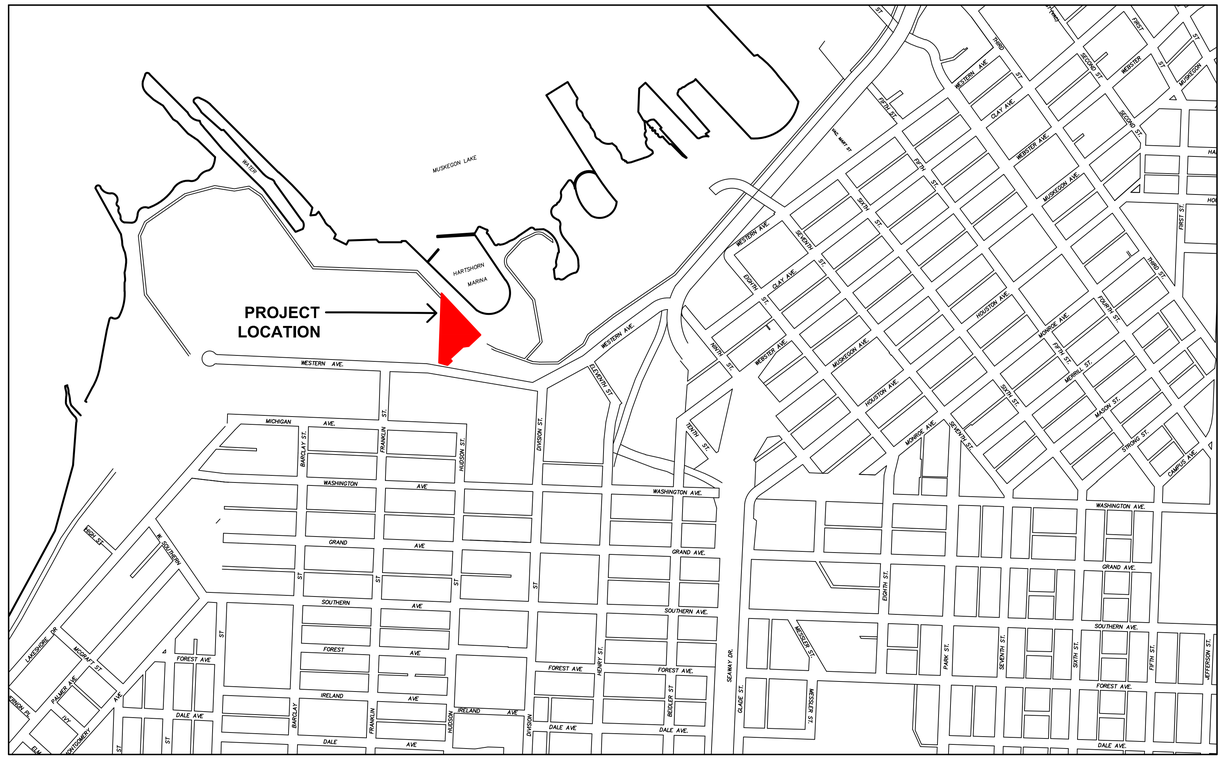
EARTHLINK (FIBER OPTICS)
2851 CHARLEVOIX DR. SE, STE. 209
GRAND RAPIDS, MI 49503
(616) 988-7100

US SIGNAL COMPANY, LLC (FIBER OPTICS)
201 IONIA AVE, SW
GRAND RAPIDS, MI 49503
(616) 988-7031

WINDSTREAM
40 MONROE CENTER ST. NW, STE. 201
GRAND RAPIDS, MI 49503
(616) 389-1007

VEOLIA ENERGY GRAND RAPIDS LLC - STEAM
50 MONROE AVE. NW, SUITE 430
GRAND RAPIDS, MI 49503
(616) 356-2535

TDS METROCOM, LLC
1575 GEZON PARKWAY SUITE B
WYOMING, MI 49509
(616) 301-3033




**PROJECT LOCATION MAP**

Know what's below. Call before you dig.

DATE: DECEMBER 5, 2025

PROJECT DESCRIPTION:

**HARTSHORN VILLAGE**
**PHASE 2**

SURVEYED & DESIGNED BY:


**Moore+Bruggink**
Consulting Engineers
2020 Monroe Ave.
Grand Rapids, MI 49505
(616) 363-9801 mailbox@mbce.com


CITY OF MUSKEGON APPROVAL

NAME, CITY MANAGER

DATE

PREPARED UNDER SUPERVISION OF

JUSTIN FRAZA LONGSTRETH, P.E.
ENGINEER, P.E.

6201055281
REGISTRATION NO.

Moore+Bruggink
ORGANIZATION

2020 MONROE NW GRAND RAPIDS, MI 49505
ADDRESS

STATE OF MICHIGAN
JUSTIN FRAZA LONGSTRETH
ENGINEER
No 6201055281
LICENSED PROFESSIONAL ENGINEER

JOB NUMBER: 250217.01

SHEET NUMBER 1

P:\250217.01 Hartshorn Village Condo\CAD\DWG\250217.1_COVER SHEETS.dwg, 5/4/2026 4:08:20 PM, DAVID BULTEN

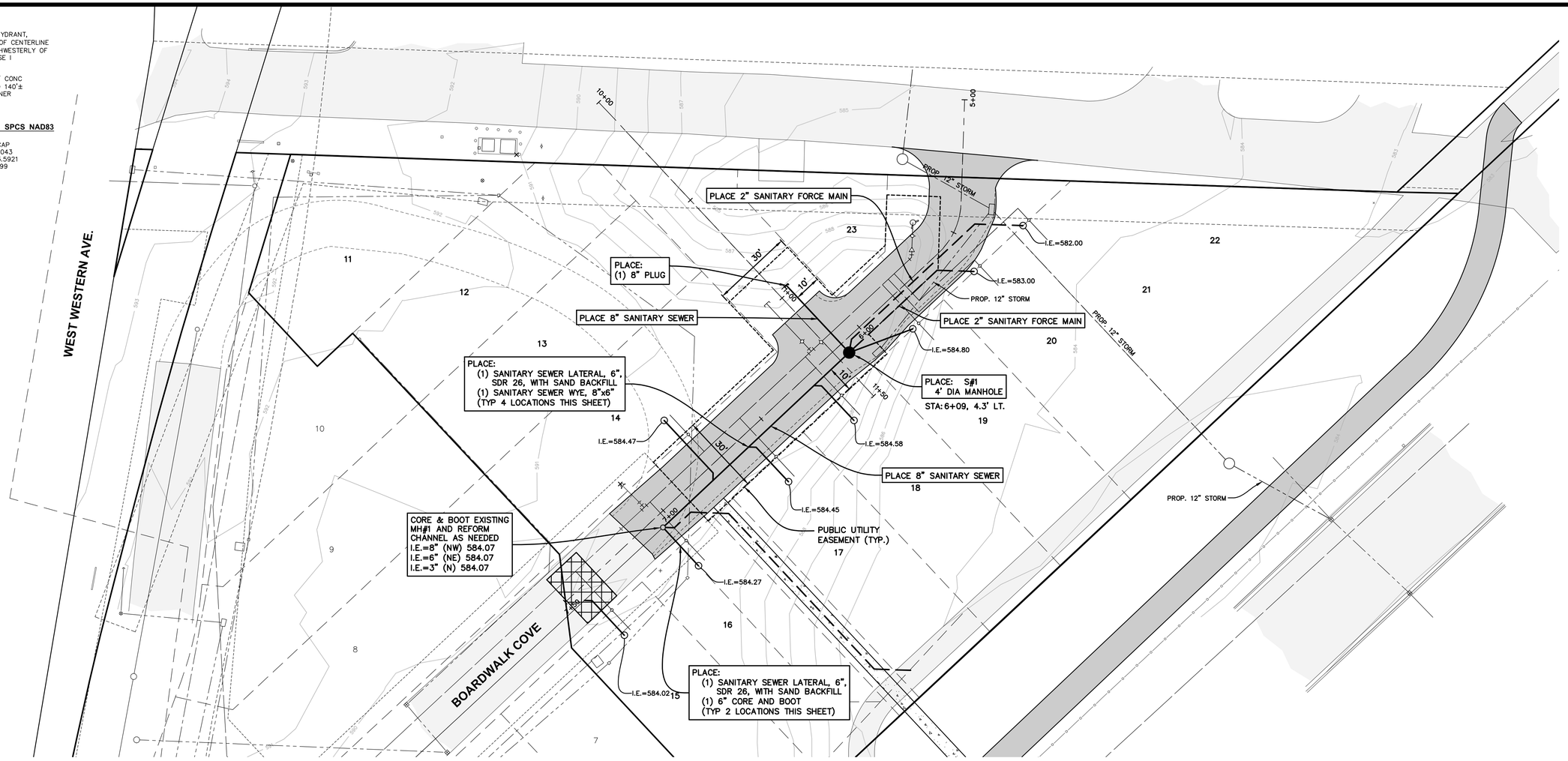
**BENCHMARKS - NAVD88**

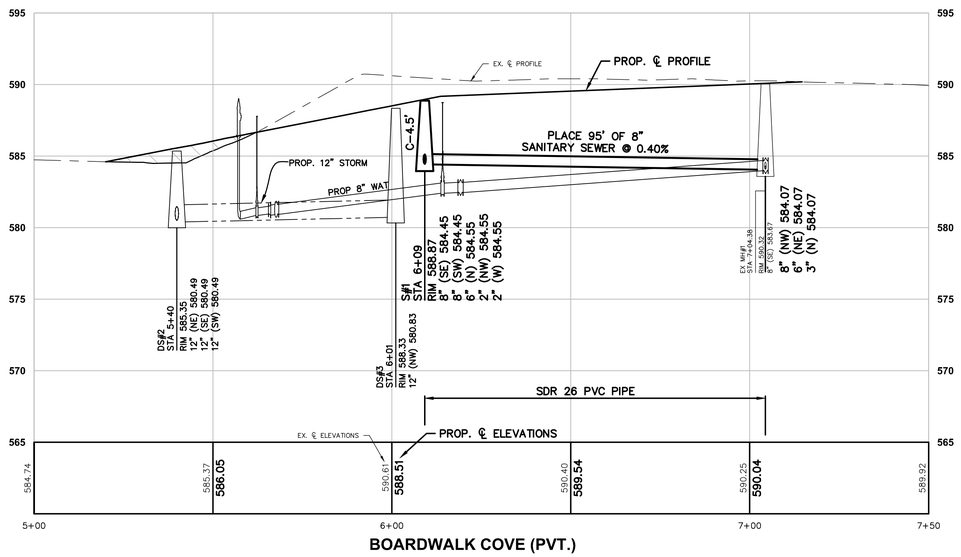
ELEVATION 591.793
TOP OF SSW FLANGE BOLT OF HYDRANT,
LOCATED 15'± SOUTHWESTERLY OF CENTERLINE
BOARDWALK COVE & 10'± NORTHWESTERLY OF
THE END OF PAVEMENT TO PHASE I

ELEVATION 591.652
NORTHEAST CORNER OF A 6'x12' CONC
PAD TO TRANSFORMER, LOCATED 140'±
NORTH OF THE SOUTHWEST CORNER
OF HARTSHORN VILLAGE CONDO

**CONTROL POINTS - MI SOUTH SPCS NAD83**

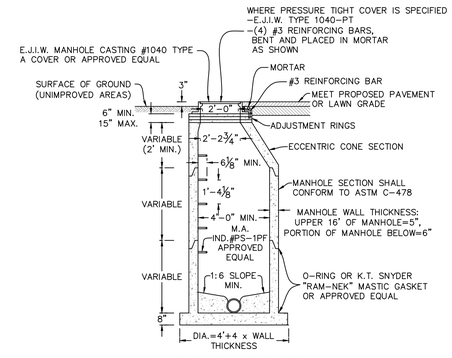
| CP#100 | CP#101 |
|---|---|
| M+B RED CAP | M+B RED CAP |
| N 636067.0441 | N 636347.1043 |
| E 12616984.9282 | E 12616953.5921 |
| ELEV 591.146 | ELEV 583.999 |



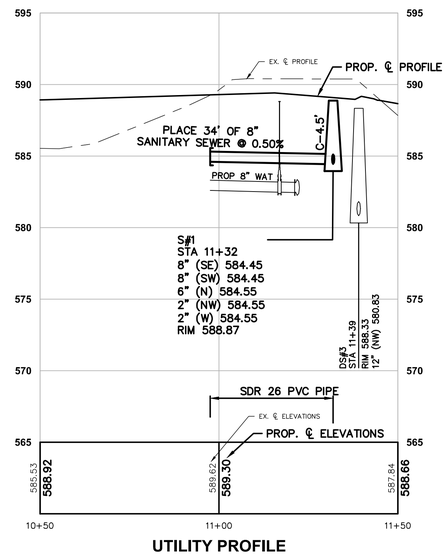




**BOARDWALK COVE (PVT.)**

NOTE:
MANHOLE COVER SHALL HAVE A 2 INCH
"S" EMBOSSED ON IT. COVER SHALL HAVE TWO
HOLES FOR MAINTENANCE AND REMOVAL.




**SANITARY MANHOLE DETAIL**
SCALE: 1"=4'




**UTILITY PROFILE**

0 10 20
PLAN SCALE: 1" = 20'
PROFILE SCALES:
HORZ: 1" = 20'
VERT: 1" = 5'

Know what's **below.** **Call** before you dig.

PLAN REVISIONS
REV. PIPE SIZES – 08/19/2026


Moore+Bruggink
Consulting Engineers
2020 Monroe Ave.
Grand Rapids, MI 49505
(616) 363-9801 mailbox@mbce.com


SANITARY SEWER
IN
**BOARDWALK COVE (PVT.)**
HARTSHORN VILLAGE-PHASE 2
CITY OF MUSKEGON, MUSKEGON COUNTY, MICHIGAN

| | |
|---|---|
| FIELD SURVEY / DATE | M+B |
| PROJECT NO.: | 250217.01 |
| DESIGN DRAWN BY: | MJK |
| DESIGNED BY: | JFL |
| CHECKED BY: | JFL |
| PLAN DATE: | DECEMBER 5, 2025 |

SHEET NUMBER
**2** OF **3**

P:\250217.01 Hartshorn Village Condo\CAD DWG\250217.1_SANITARY SHEETS.dwg, 8/19/2026 9:43:49 AM, MATT KOZAK

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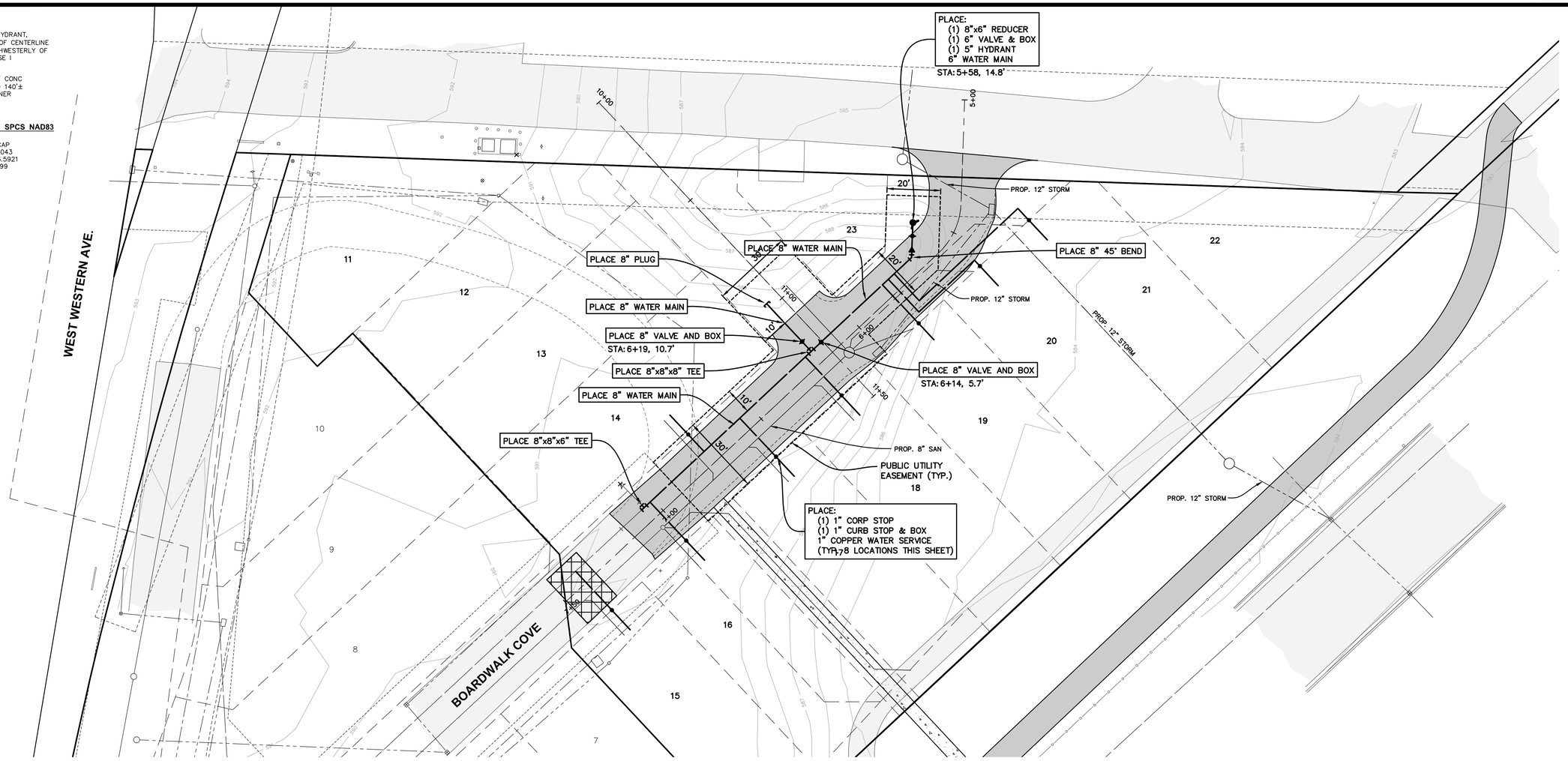
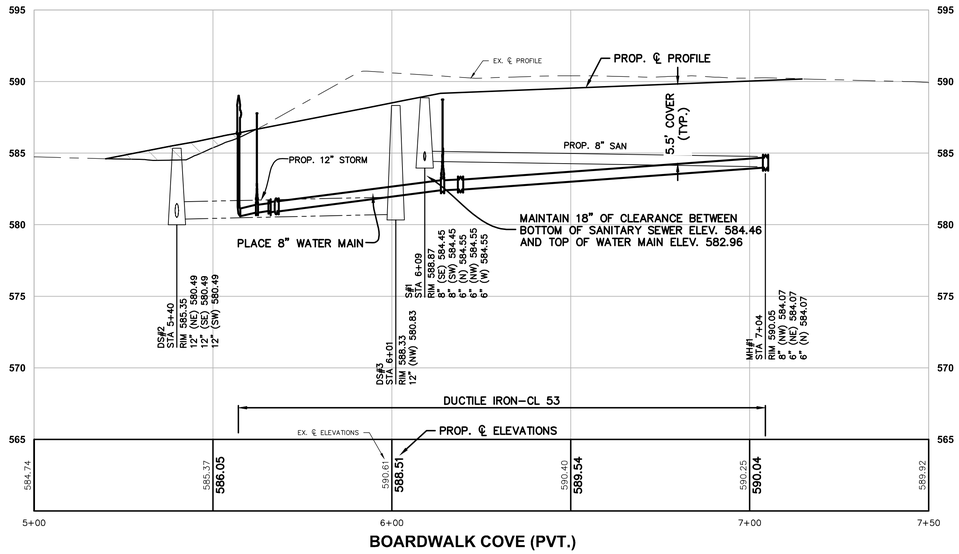
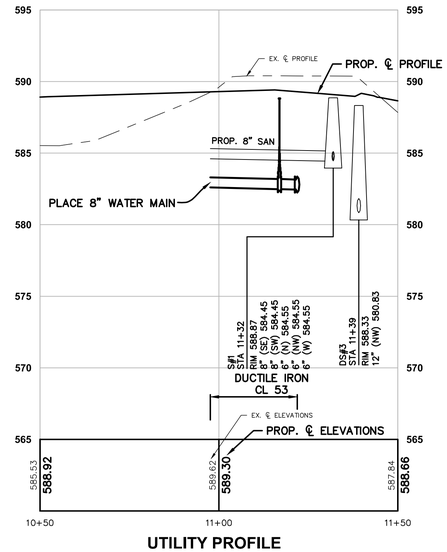



**BOARDWALK COVE (PVT.)**

***DUE TO THE POTENTIAL FOR CONTAMINATED SOILS, ALL WATER MAIN SHALL HAVE BUNA-N NITRILE GASKETS**

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REV. PER EGLE COMMENTS – 04/02/2026


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Grand Rapids, MI 49505
(616) 363-9801 mailbox@mbce.com


**WATER MAIN IN BOARDWALK COVE (PVT.)**
HARTSHORN VILLAGE-PHASE 2
CITY OF MUSKEGON, MUSKEGON COUNTY, MICHIGAN

| | |
|---|---|
| FIELD SURVEY / DATE | M+B |
| PROJECT NO.: | 250217.01 |
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SHEET NUMBER **3** OF **3**

P:\250217.01 Hartshorn Village Condo\CAD DWG\250217.1_WATER MAIN SHEETS.dwg, 5/4/2026 4:08:25 PM, DAVID BULTEN