

# Construction Plans For CONTRACT 1 WATER AND SEWER IMPROVEMENTS PHASE 2

## Village of Elk Rapids - Antrim County - Michigan

Sections 20 & 21, Township 29N, Range 09W

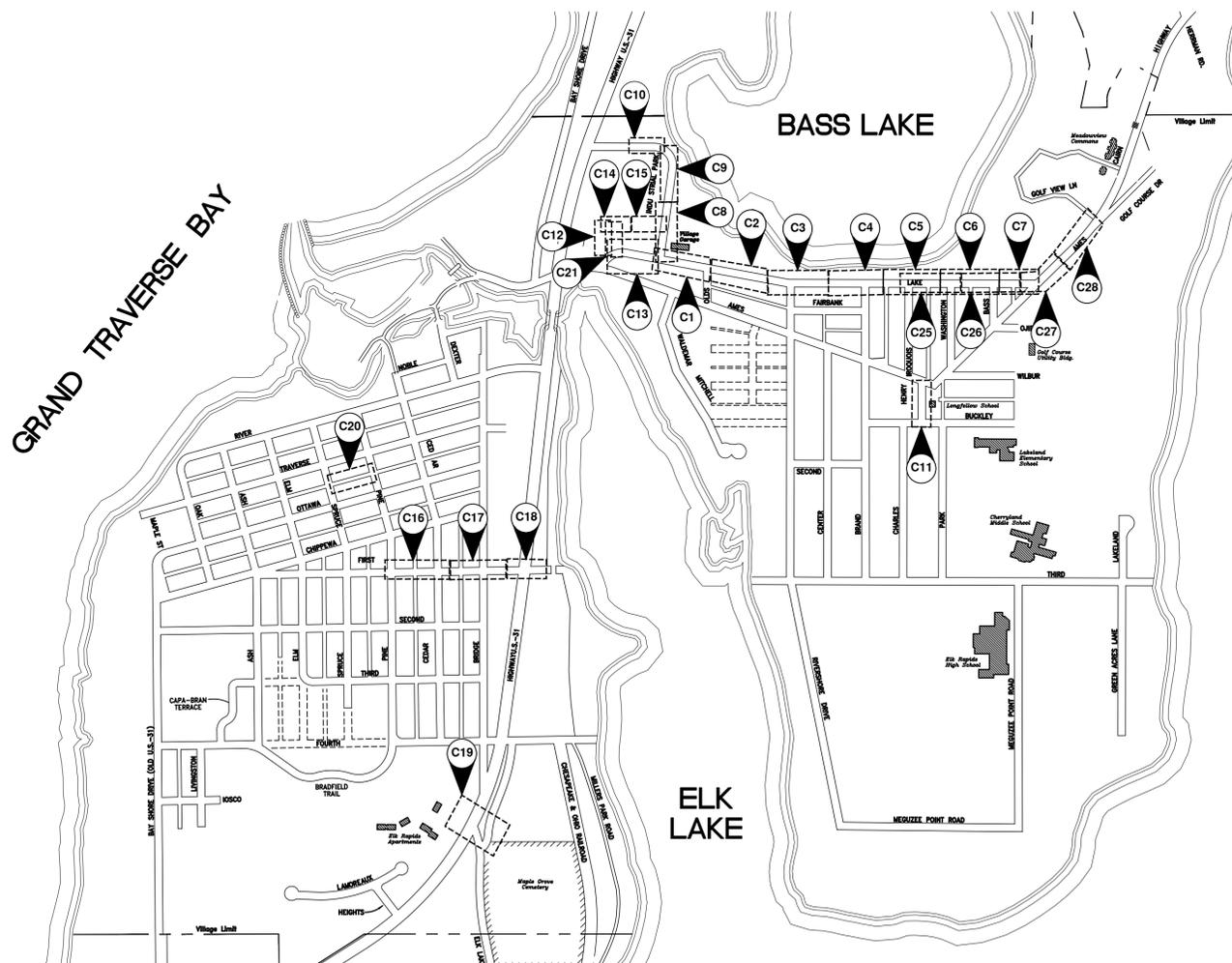
**Owner**

VILLAGE OF ELK RAPIDS  
P.O. BOX 398  
315 BRIDGE STREET  
ELK RAPIDS, MICHIGAN 49629  
(231) 264-9971 - (231) 264-9274



**Engineer**

GOSLING CZUBAK  
ENGINEERING SCIENCES, INC.  
1280 BUSINESS PARK DRIVE  
TRAVERSE CITY, MICHIGAN 49686-8607  
(231) 946-9191 - (800) 968-1062  
Fax : (231) 941-4603  
www.goslingczubak.com



Village of Elk Rapids  
Site Location Map

SCALE: 1" = 600'

**PUBLIC UTILITIES**

THE EXISTING UTILITIES LISTED BELOW AND SHOWN ON THESE PLANS REPRESENT THE BEST INFORMATION AVAILABLE. THIS INFORMATION DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO BE SATISFIED AS TO ITS ACCURACY AND THE LOCATION OF EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY "MISS DIG" (1-800-482-7171) THREE WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.

**DTE ENERGY COMPANY  
GAS DISTRIBUTION**

1294 NORTH U.S. 31  
PETOSKEY, MI 49670  
231-258-3785

**DTE ENERGY COMPANY  
HIGH PRESSURE GAS TRANSMISSION**

250 MICHCON LN.,  
KALKASKA, MI 49646  
231-499-7646

**CHARTER COMMUNICATIONS VILLAGE OF ELK RAPIDS, DPW**

701 S. AIRPORT RD.  
TRAVERSE CITY, MI 49686  
231-929-7012 EXT. 102

**CONSUMERS ENERGY**

821 HASTINGS  
TRAVERSE CITY, MI 49686  
231-929-6244

MR. ALEX PRAY  
315 BRIDGE STREET  
P.O. BOX 398  
ELK RAPIDS, MI 49629  
231-264-9971

**AT&T**

142 E. STATE STREET  
TRAVERSE CITY, MI 49684  
231-941-2707



Know what's below.  
Call before you dig.

THE LOCATION OF THE EXISTING UTILITIES, AS SHOWN ON THIS PLAN, ARE APPROXIMATE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ACTUAL LOCATION AND DEPTH OF ALL EXISTING UTILITIES. THE OWNER AND THE SURVEYOR SHALL NOT BE RESPONSIBLE FOR ANY OMISSION OR VARIATION FROM THE LOCATION SHOWN. THE CONTRACTOR SHALL NOTIFY "MISS DIG" AT 1 (800) 482-7171 OR 811 THREE (3) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.

ORIGINAL SHEET SIZE IS 22x34 - HALF SCALE SHEET IS 11x17

**Gosling Czubak**  
engineering sciences, inc.  
1280 Business Park Dr.  
Traverse City, Michigan  
231-946-9191 phone  
info@goslingczubak.com  
www.goslingczubak.com

CIVIL ENGINEERING  
SURVEYING  
ENVIRONMENTAL SERVICES  
GEOTECHNICAL  
CONSTRUCTION SERVICES  
DRILLING  
LANDSCAPE ARCHITECTURE

No.	Date	Revision	By

**COVER**  
**WATERMAIN AND SEWER IMPROVEMENTS**  
**VILLAGE OF ELK RAPIDS**

Date Issued: APRIL 1, 2026  
Date Surveyed: 11/25/2024  
Designed By: TNK  
Drawn By: BAH  
Checked By: MJH  
Scale: AS NOTED

Original sheet size is 22x34

Location:  
SECTION 21 T29N, R9W  
VILLAGE OF ELK RAPIDS  
ANTRIM COUNTY  
MICHIGAN

Project Number:  
240424

Sheet:  
**G1**

**PROPOSED FEATURES LEGEND**

- PROPOSED SANITARY CLEANOUT
- PROPOSED SANITARY STRUCTURE
- PROPOSED SANITARY LINE
- PROPOSED SANITARY FORCEMAIN
- PROPOSED SANITARY SERVICE
- PROPOSED SANITARY SHUT OFF VALVE
- PROPOSED WATER LINE
- PROPOSED WATER HYDRANT
- PROPOSED WATER SYSTEM VALVE
- PROPOSED ASPHALT REMOVAL & REPLACE
- PROPOSED CONCRETE REMOVAL & REPLACE
- PROPOSED GRAVEL REMOVAL & REPLACE

**SITE PLAN NOTES**

- DESIGN SUBJECT TO VERIFICATION OF SITE CONDITIONS.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL PUBLIC AND PRIVATE UTILITY LOCATIONS. CONTRACTOR SHALL ALSO CONTACT "MISS DIG" AT 1-800-482-7171 THREE WORKING DAYS PRIOR TO CONSTRUCTION BEGINNING.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY ALL PERTINENT VERTICAL CONTROL DATA (I.E. BENCHMARKS, FLOORS, UTILITIES, ETC.)
- INSTALL SESC MEASURES AS FIRST STEP BEFORE ANY CONSTRUCTION ACTIVITIES BEGIN. SEE SESC MEASURES SHOWN ON PLANS AS THE MINIMUM CONTROLS TO BE USED AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY AND PERMANENT SOIL EROSION CONTROL MEASURES TO PROTECT THE DISTURBED AREAS AND ADJACENT PROPERTIES FROM ACCELERATED EROSION AND SEDIMENTATION RESULTING FROM CONSTRUCTION AT NO ADDITIONAL CHARGE TO THE OWNER.
- ALL TOPSOIL SHALL BE STRIPPED FROM AREAS TO BE OCCUPIED BY FILL, STRUCTURES, OR IMPROVED SURFACES.
- ALL DISTURBED AREAS SHALL BE TOPSOILED, SEEDED, FERTILIZED, AND MULCHED. MULCH BLANKET SHALL BE INSTALLED IN AREAS WITH SLOPES 1v:3H AND STEEPER OR AS NEEDED AND SHALL BE INCIDENTAL TO THE WORK.
- ANY AREAS UTILIZED BY CONTRACTOR FOR MATERIAL LAYDOWN SHALL BE RESTORED WITH TOPSOIL, SEED, FERTILIZER, AND MULCH.
- CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF SESC PERMIT. CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF ANY OTHER OWNER OBTAINED PERMITS (DRIVEWAY PERMIT, STATE SCHOOLS, ETC.)
- PAVEMENT STRIPING SHALL MEET PROJECT SPECIFICATIONS.

**SITE UTILITY NOTES**

- WATER AND SEWER IMPROVEMENTS TO MEET CURRENT VILLAGE OF ELK RAPIDS, PLUMBING, AND MECHANICAL CODE REQUIREMENTS.
- MAINTAIN 10 FEET OF HORIZONTAL AND 18 INCH OF VERTICAL CLEARANCE BETWEEN WATER AND SEWER.
- CONTRACTOR TO PERFORM ALL CHLORINATION AND DISINFECTION PROCEDURES ON THE NEW WATER SYSTEM TO ALL OUTLET LOCATIONS.
- CONTRACTOR TO COORDINATE FORCEMAIN SERVICE LOCATION INSTALLATIONS WITH THE VILLAGE AND INDIVIDUAL PROPERTY OWNERS.
- SANITARY SEWER GRAVITY
  - MINIMUM COVER ON ALL BURIED SEWER LINES, 6'-0" UNLESS OTHERWISE NOTED
  - SERVICES
  - DESIGN STANDARD: ASTM - D 3034.
  - WALL THICKNESS: SCHEDULE 40
  - JOINTS: SOLVENT WELD
- WATER
  - MINIMUM COVER ON ALL BURIED WATER LINES, 6'-0" UNLESS OTHERWISE NOTED
  - WATER SERVICE LINES SHALL BE PVC C900 FOR PIPING LARGER THAN 3-INCH
  - WATER SERVICE LINES SHALL BE TYPE K COPPER FOR PIPING 3-INCH AND SMALLER
  - WATER VALVES SHALL BE INSTALLED WHERE LOCATED ON PLANS
  - CURB BOXES SHALL BE INSTALLED IN THE ROW, ONE FOOT BACK OF FROM THE PROPERTY LINE, WHERE SIDEWALK OR OTHER CONFLICTS ARE PRESENT, INSTALL ONE FOOT BACK SIDEWALK OR AS NOTED ON PLANS.
  - ALL SERVICES SHALL BE INSTALLED WITH A 36" STATIONARY ROD EXTENSION.
  - LOCATE, CUT, PLUG & ABANDON EXISTING WATER SERVICE.
  - ALL EXISTING HYDRANTS SHALL BE SALVAGED FOR OWNER AND PLACED IN LOCATION DESIGNATED BY OWNER.
  - ALL WATER SERVICES INCLUDE NEW SADDLE AND CORP STOP AND NEW CURB STOP AND BOX, UNLESS OTHERWISE NOTED.
  - CONNECTIONS TO EXISTING SYSTEM TO BE COMPLETED ONLY AFTER SUCCESSFULLY PASSING BACTI TESTING.

**SOIL BORING LEGEND**

- PAVING
- FILL
- NO DESCRIPTION
- POORLY GRADED SAND
- POORLY GRADED CLAYEY SILTY SAND
- GROUND WATER LEVEL

**SOIL EROSION & SEDIMENTATION CONTROL NOTES**

- ALL WORK SHALL COMPLY WITH THE APPLICABLE SOIL EROSION AND SEDIMENTATION CONTROL (SESC) RULES AND REGULATIONS (SOIL EROSION AND SEDIMENTATION CONTROL -1994 PA 451, PART 91, AS AMENDED, MCL 324.9101 ET SEQ.).
- SOIL EROSION AND SEDIMENTATION CONTROL SHALL PROTECT AGAINST LOSS OF SOIL BY THE ACTION OF WATER, ICE, AND WIND.
- THE CONTRACTOR IS REQUIRED TO FOLLOW THE CONDITIONS OUTLINED IN THE SOIL EROSION AND SEDIMENTATION CONTROL PERMIT.
- THE CONTRACTOR SHALL IMPLEMENT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED BY THE PROJECT'S SESC PLAN, ANTRIM COUNTY PERMIT REQUIREMENTS, DTMB'S SOIL EROSION AND SEDIMENTATION CONTROL GUIDEBOOK, DATED FEBRUARY 2005, AND AS DIRECTED BY THE ENGINEER.
- BASIC PRINCIPLES OF THE SOIL EROSION AND SEDIMENTATION CONTROL PLAN ARE AS FOLLOWS:
  - KEEP DISTURBED AREA AS SMALL AS POSSIBLE
  - STABILIZE AND/OR PROTECT DISTURBED AREAS AS SOON AS POSSIBLE.
  - KEEP STORM WATER RUNOFF VELOCITIES LOW.
  - RETAIN SEDIMENT WITHIN IMMEDIATE CONSTRUCTION AREA.
- THE CONTRACTOR SHALL INSTALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES PRIOR TO OR UPON COMMENCEMENT TO EARTHWORK ACTIVITIES.
- THE CONTRACTOR WILL PERFORM SWEEPING AS NEEDED TO REMOVE ANY SEDIMENT TRACKED OFF SITE. FREQUENCY OF SWEEPING WILL BE BASED ON SITE CONDITIONS. ALL DIRT AND MUD TRACKED ONTO PUBLIC ROADS SHALL BE REMOVED DAILY. SCRAPE DAILY OR AS NEEDED. SWEEP ROADS ONCE A WEEK. ROADS SHALL ALSO BE CLEANED IMMEDIATELY AFTER A RAIN EVENT.
- THE CONTRACTOR WILL PERFORM DUST CONTROL AS NEEDED BASED ON SITE CONDITIONS.
- DISTURBED AREAS THAT WILL REMAIN IDLE DURING CONSTRUCTION MUST BE TEMPORARILY STABILIZED, INCLUDING SOIL STOCKPILES, USING DTMB SESC BEST MANAGEMENT PRACTICES.
- ALL DISTURBED SURFACE AREAS (INCLUDING UTILITY TRENCHES) SHALL BE TEMPORARILY GRADED AND/OR DITCHED TO DIRECT WATER RUNOFF FROM SUCH AREAS TO SEDIMENTATION CONTROL DEVICES WHICH WILL PREVENT DISTURBED ERODED WATER CARRYING SOIL FROM ENTERING A WATERCOURSE, SEWER, OR ADJACENT LANDS. SUCH SEDIMENTATION CONTROL DEVICES SHALL INCLUDE BUT NOT BE LIMITED TO PROTECTIVE DITCHES, SEDIMENT TRAPS, SEDIMENT FILTERS, DITCH TRAPS, PIPE BARRIERS, STRAW BALE BERM AND FILTERS AS DETAILED AND REQUIRED AND LOCATED ON THE DRAWINGS. AFTER THE PROJECT WORK HAS BEEN COMPLETED, INSPECTED AND APPROVED, THE CONTRACTOR SHALL REMOVE ALL SEDIMENTATION CONTROL DEVICES, MATERIAL AND THEIR COLLECTED SILT AND DEBRIS AND COMPLETE THE PROJECT WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL MAINTAIN AND INSPECT SESC MEASURES THROUGHOUT THE COURSE OF THE PROJECT. RECOMMEND INSPECTING AND MAINTAINING EROSION AND SEDIMENTATION CONTROLS ON A DAILY BASIS. AT A MINIMUM, THE CONTRACTOR SHALL INSPECT AND MAINTAIN SESC MEASURES ONCE A WEEK AND AFTER RAIN EVENTS. COLLECTED SILT AND SEDIMENTATION SHALL BE REMOVED AS REQUIRED TO MAINTAIN THE EFFECTIVENESS OF THE SILT TRAPS OR SEDIMENTATION CONTROL DEVICES. IN SILT FENCE APPLICATIONS SEDIMENT SHALL BE REMOVED WHEN THE HEIGHT REACHES ONE HALF THE HEIGHT OF THE FABRIC. WHERE REQUIRED, THE CONTRACTOR SHALL REPLACE FILTER MATERIALS WHICH HAVE BECOME INEFFECTIVE DUE TO CONTAMINATION OR PHYSICAL DETERIORATION. THE CONTRACTOR SHALL INSPECT ALL SOIL AND EROSION AND SEDIMENTATION CONTROL DEVICES AFTER ALL STORM EVENTS.
- THE CONTRACTOR SHALL CORRECT NON-CONFORMING SESC MEASURES WITHIN 24 HOURS, IF WATERS OF THE STATE ARE BEING IMPACTED OR WITHIN 48 HOURS FOR ROUTINE MAINTENANCE ITEMS. OTHER SESC MAINTENANCE SHALL BE COMPLETED AS SOON AS POSSIBLE BUT NEVER MORE THAN FIVE (5) DAYS AFTER DETECTION.
- THE CONTRACTOR SHALL COMPLETE PERMANENT SOIL EROSION CONTROL MEASURES FOR ANY DISTURBED LAND AREA WITHIN 5 CALENDAR DAYS AFTER FINAL GRADING OR THE FINAL EARTH CHANGE HAS BEEN COMPLETED. THE CONTRACTOR SHALL MAINTAIN TEMPORARY CONTROL MEASURES UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IN PLACE AND THE AREA IS STABILIZED.
- THE CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER PERMANENT SOIL EROSION MEASURES ARE IN PLACE AND THE AREA IS STABILIZED. CARE SHALL BE TAKEN DURING REMOVAL TO PREVENT SOIL EROSION AND SEDIMENTATION.
- AFTER THE COMPLETION OF THE PROJECT, PERMANENT SESC MEASURES WILL BE MAINTAINED BY THE PROPERTY OWNER.

**DTMB SESC KEY LEGEND**

E5	DUST CONTROL		For use on construction sites, unpaved roads, etc. to reduce dust and sedimentation from wind and construction activities.
E6	MULCH		On flat areas, mild slopes, grassed waterways and spillways, diversion ditches and dikes, borrow and stockpile areas, and spoil piles when areas are subject to raindrop impact, and erosive forces from wind or water.
E9	MULCH BLANKETS		On exposed slopes, newly seeded areas, new ditch bottoms, or areas subject to erosion.
E8	PERMANENT SEEDING		Stabilization method utilized on sites where earth change has been completed (final grading attained).
S51	SILT FENCE		Use adjacent to critical areas, to prevent sediment laden sheet flow from entering these areas.
S58	STORM INLET PROTECTION		Around the entrance to a catch basin or an inlet that will capture runoff from an earth change activity.

DENOTES PERMANENT MEASURE

DENOTES TEMPORARY MEASURE

Sheet List Table

Sheet Number	Sheet Title
G1	COVER
G2	GENERAL NOTES AND SHEET LIST
C1	LAKE ST. STA. 0+00 TO 5+00
C2	LAKE ST STA. 5+00 TO 10+00
C3	LAKE ST. STA. 10+00 TO 15+00
C4	LAKE ST. STA. 15+00 TO 20+00
C5	LAKE ST. STA. 20+00 TO 25+00
C6	LAKE ST. STA. 25+00 TO 30+00
C7	LAKE ST. STA. 30+00 TO 33+50
C8	LOOMIS ST. STA. 59+00 TO 64+00
C9	LOOMIS ST. STA. 64+00 TO 69+00
C10	LOOMIS ST. STA. 69+00 TO 70+50
C11	HENRY ST. STA. 73+00 TO 77+00
C12	LAKE ST. STA. 78+00 TO 81+00
C13	LAKE ST. STA. 81+00 TO 86+00
C14	LOOMIS ST. STA. 86+00 TO 89+00
C15	LOOMIS ST. STA. 89+00 TO 92+00
C16	1ST ST. STA. 92+00 TO 97+00
C17	1ST ST. STA. 97+00 TO 102+00
C18	1ST ST. STA. 102+00 TO 105+00
C19	U.S. 31 STA. 106+00 TO 107+50
C20	TRAV. OTT ALLEY STA. 108+00 TO 112+00
C21	IRON PLANT STA. 112+50 TO 116+00
C22	SANITARY DETAILS
C23	WATER DETAILS
C24	RESTORATION DETAILS
C25	STORM WATER DETAILS
C26	LAKE ST. FM STA. 20+50 TO 26+00
C27	LAKE ST. FM STA. 26+00 TO 31+00
C28	LAKE ST. FM STA. 31+00 TO 41+50
C29	AMES ST. FM STA. 41+50 TO 47+00
C30	FORCEMAIN DETAILS
CCC1	COVER
CCC2	BILL OF MATERIALS & BID ITEMS
CCC3	GENERAL NOTES
CCC4	GENERAL NOTES
CCC5	GENERAL NOTES
CCC6	CONSTRUCTION SHEETS & PROFILE
CCC7	CONSTRUCTION SHEETS & PROFILE
CCC8	CONSTRUCTION SHEETS & PROFILE
CCC9	CONSTRUCTION SHEETS & PROFILE
CCC10	CONSTRUCTION SHEETS & PROFILE
CCC11	CONSTRUCTION SHEETS & PROFILE
CCC12	CONSTRUCTION SHEETS & PROFILE
CCC13	CONSTRUCTION SHEETS & PROFILE
CCC14	CONSTRUCTION SHEETS & PROFILE
CCC15	CONSTRUCTION SHEETS & PROFILE
CCC16	CONSTRUCTION SHEETS & PROFILE
CCC17	CONSTRUCTION SHEETS & PROFILE
CCC18	CONSTRUCTION SHEETS & PROFILE

**Gosling Czubak**  
 engineering sciences, inc.  
 1280 Business Park Dr.  
 Traverse City, Michigan  
 231-946-9191 phone  
 info@goslingczubak.com  
 www.goslingczubak.com

CIVIL ENGINEERING  
 SURVEYING  
 ENVIRONMENTAL SERVICES  
 GEOTECHNICAL  
 CONSTRUCTION SERVICES  
 DRILLING  
 LANDSCAPE ARCHITECTURE

No.	Date	Revision	By

**GENERAL NOTES AND SHEET LIST  
 WATERMAIN AND SEWER IMPROVEMENTS  
 VILLAGE OF ELK RAPIDS**

Date Issued: APRIL 1, 2026  
 Date Surveyed: 11/25/2024  
 Designed By: TNK  
 Drawn By: BAH  
 Checked By: MJH  
 Scale: AS NOTED

Original sheet size is 22x34

Location:  
 SECTION 21 T29N, R9W  
 VILLAGE OF ELK RAPIDS  
 ANTRIM COUNTY  
 MICHIGAN

Project Number:  
 240424

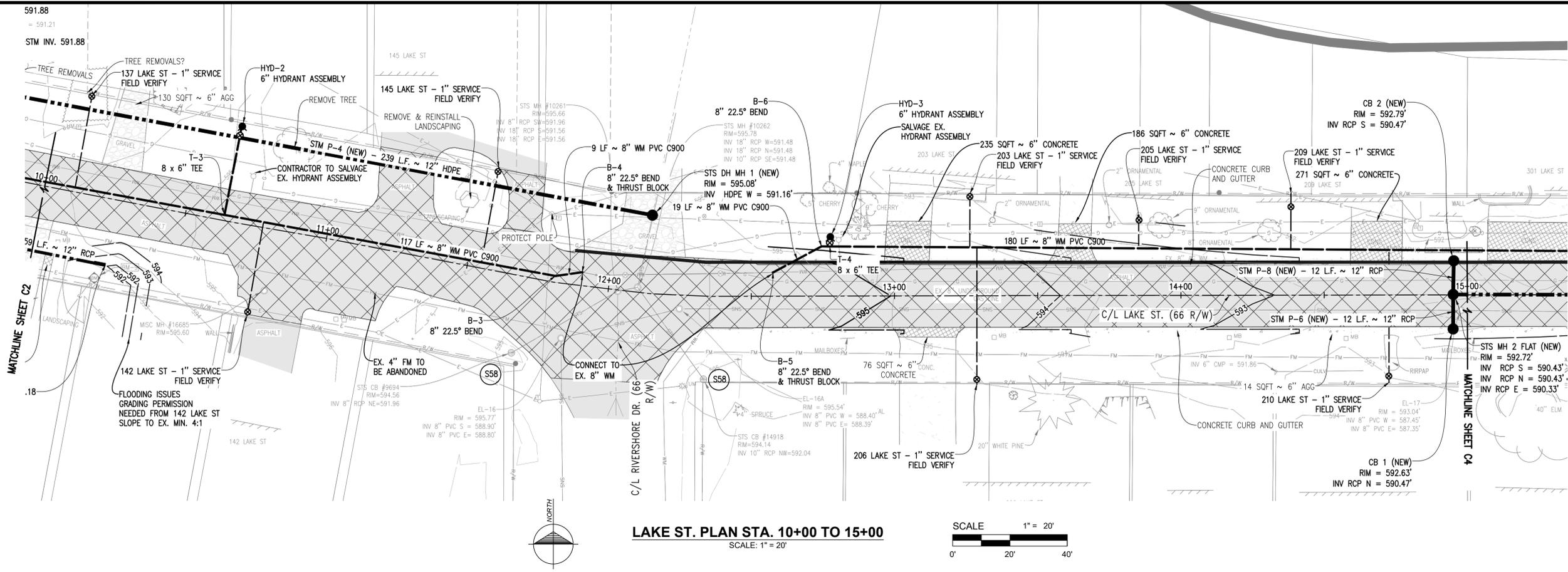
Sheet:  
**G2**



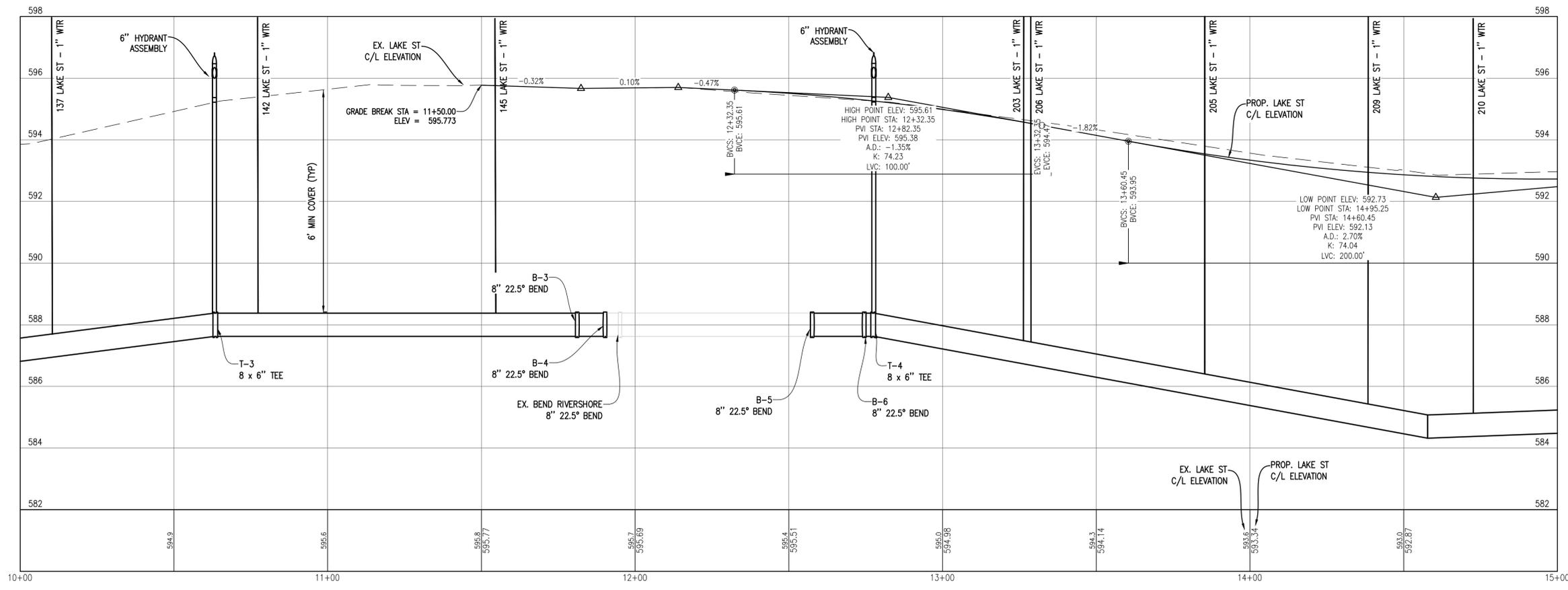
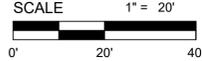
THE LOCATION OF THE EXISTING UTILITIES, AS SHOWN ON THIS PLAN, ARE APPROXIMATE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ACTUAL LOCATION AND DEPTH OF ALL EXISTING UTILITIES. THE OWNER AND THE SURVEYOR SHALL NOT BE RESPONSIBLE FOR ANY OMISSION OR VARIATION FROM THE LOCATION SHOWN. THE CONTRACTOR SHALL NOTIFY "MISS DIG" AT 1 (800) 482-7171 OR 811 THREE (3) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.







**LAKE ST. PLAN STA. 10+00 TO 15+00**  
 SCALE: 1" = 20'



**LAKE ST. PROFILE STA. 10+00 TO 15+00**  
 SCALE HORIZ.: 1" = 20'  
 SCALE VERT.: 1" = 2'

No.	Date	Revision	By

**LAKE ST. STA. 10+00 TO 15+00**  
**WATERMAIN AND SEWER IMPROVEMENTS**  
 VILLAGE OF ELK RAPIDS

Date Issued: APRIL 1, 2026  
 Date Surveyed: 11/25/2024  
 Designed By: TNK  
 Drawn By: BAH  
 Checked By: MJH  
 Scale: AS NOTED

Original sheet size is 22x34

Location: SECTION 21 T29N, R9W  
 VILLAGE OF ELK RAPIDS  
 ANTRIM COUNTY  
 MICHIGAN

Project Number: 240424

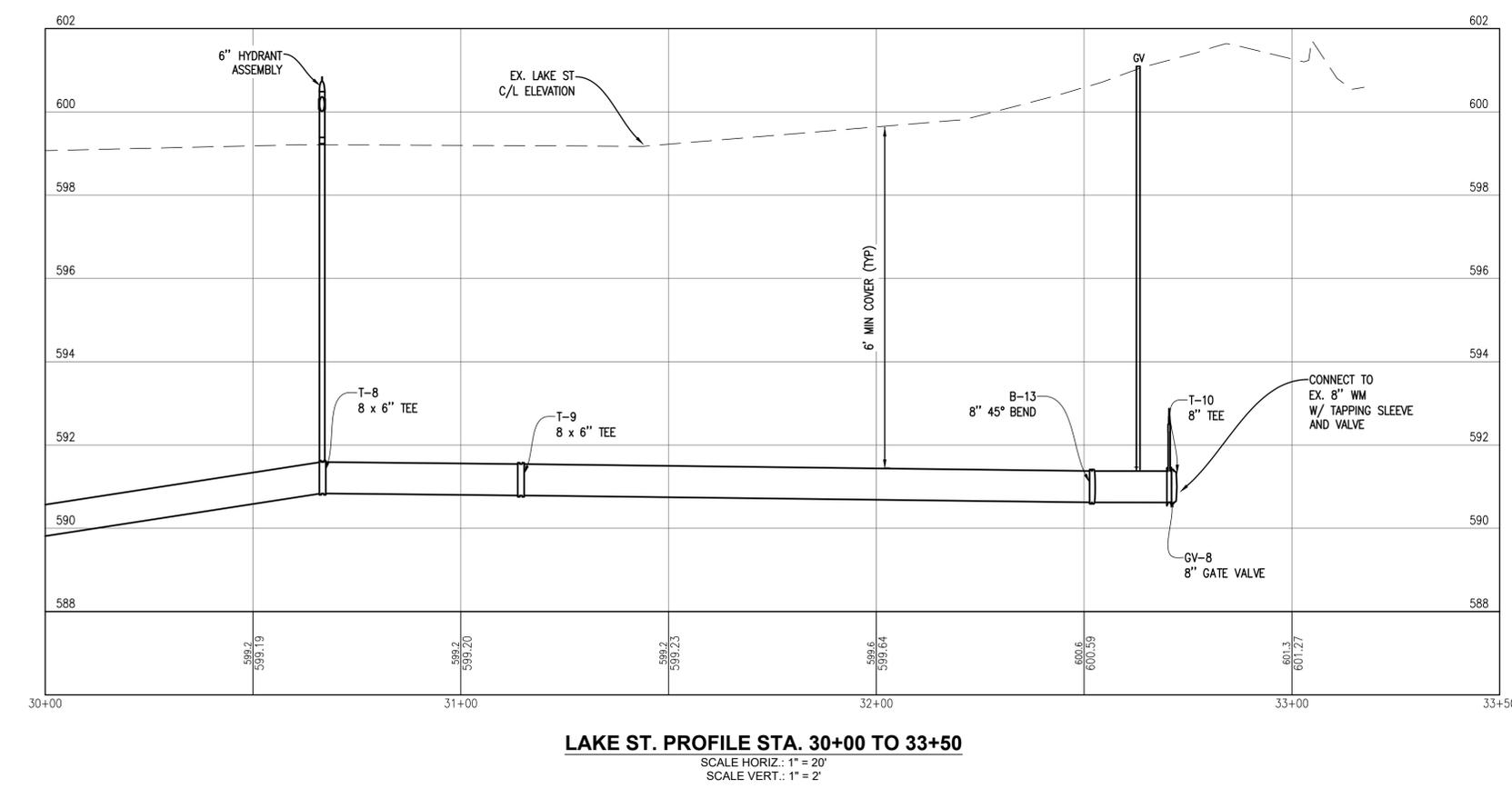
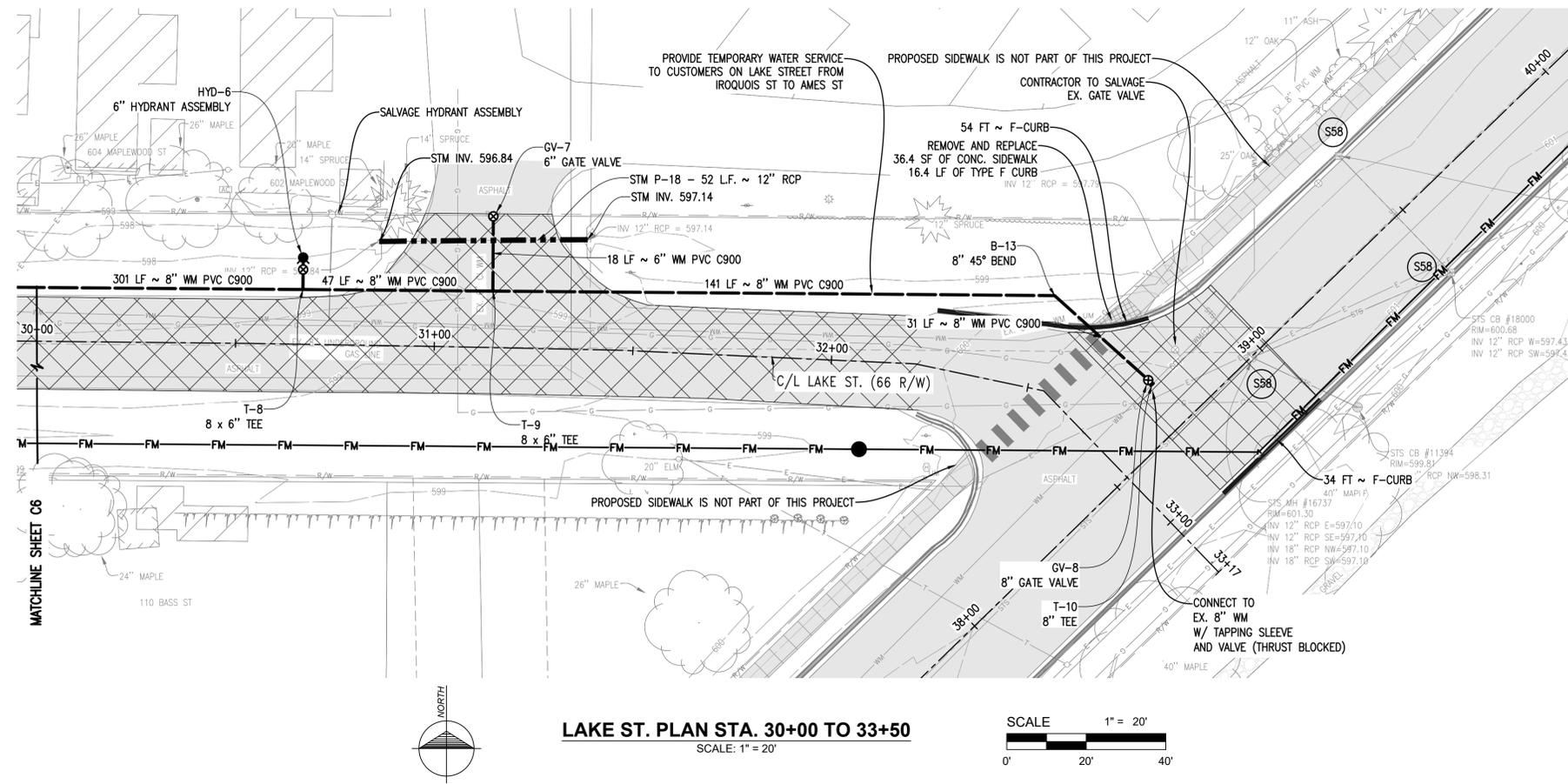
Sheet: **C3**











No.	Date	Revision	By

**LAKE ST. STA. 30+00 TO 33+50**  
**WATERMAIN AND SEWER IMPROVEMENTS**  
 VILLAGE OF ELK RAPIDS

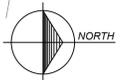
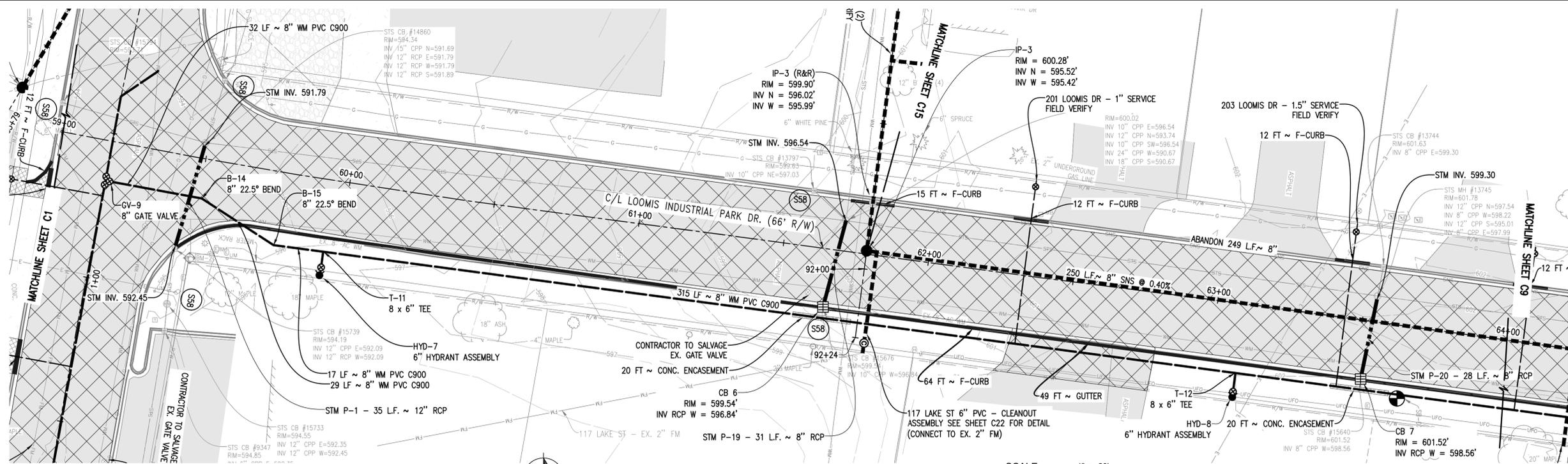
Date Issued: APRIL 1, 2026  
 Date Surveyed: 11/25/2024  
 Designed By: TNK  
 Drawn By: BAH  
 Checked By: MJH  
 Scale: AS NOTED  
 Original sheet size is 22x34

Location:  
 SECTION 21 T29N, R9W  
 VILLAGE OF ELK RAPIDS  
 ANTRIM COUNTY  
 MICHIGAN

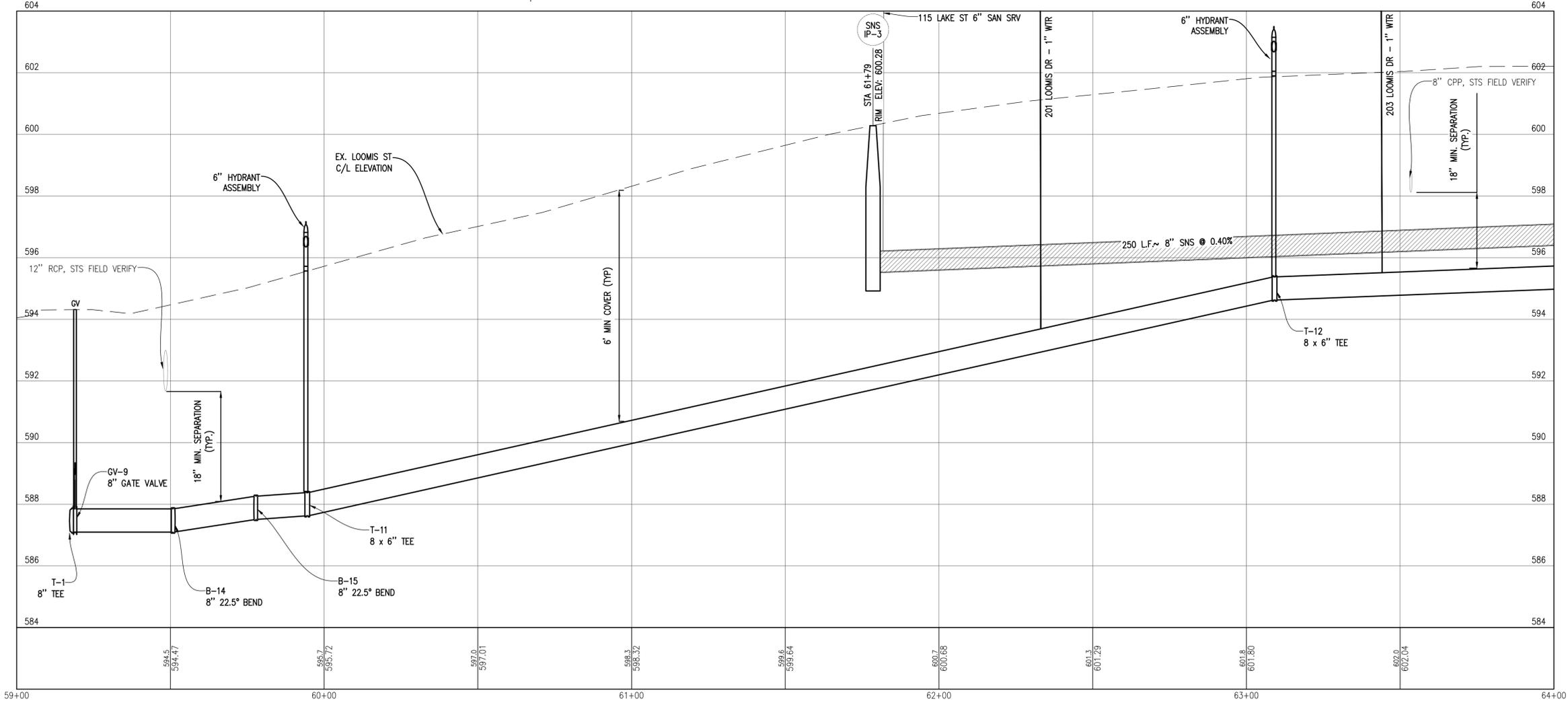
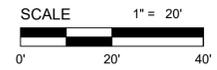
Project Number:  
 240424

Sheet:  
**C7**





**LOOMIS ST. PLAN STA. 59+00 TO 64+00**  
 SCALE: 1" = 20'



**LOOMIS ST. PROFILE STA. 59+00 TO 64+00**  
 SCALE HORIZ.: 1" = 20'  
 SCALE VERT.: 1" = 2'

No.	Date	Revision	By

**LOOMIS ST. STA. 59+00 TO 64+00**  
**WATERMAIN AND SEWER IMPROVEMENTS**  
 VILLAGE OF ELK RAPIDS

Date Issued: APRIL 1, 2026  
 Date Surveyed: 11/25/2024  
 Designed By: TNK  
 Drawn By: BAH  
 Checked By: MJH  
 Scale: AS NOTED  
 Original sheet size is 22x34

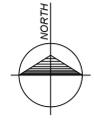
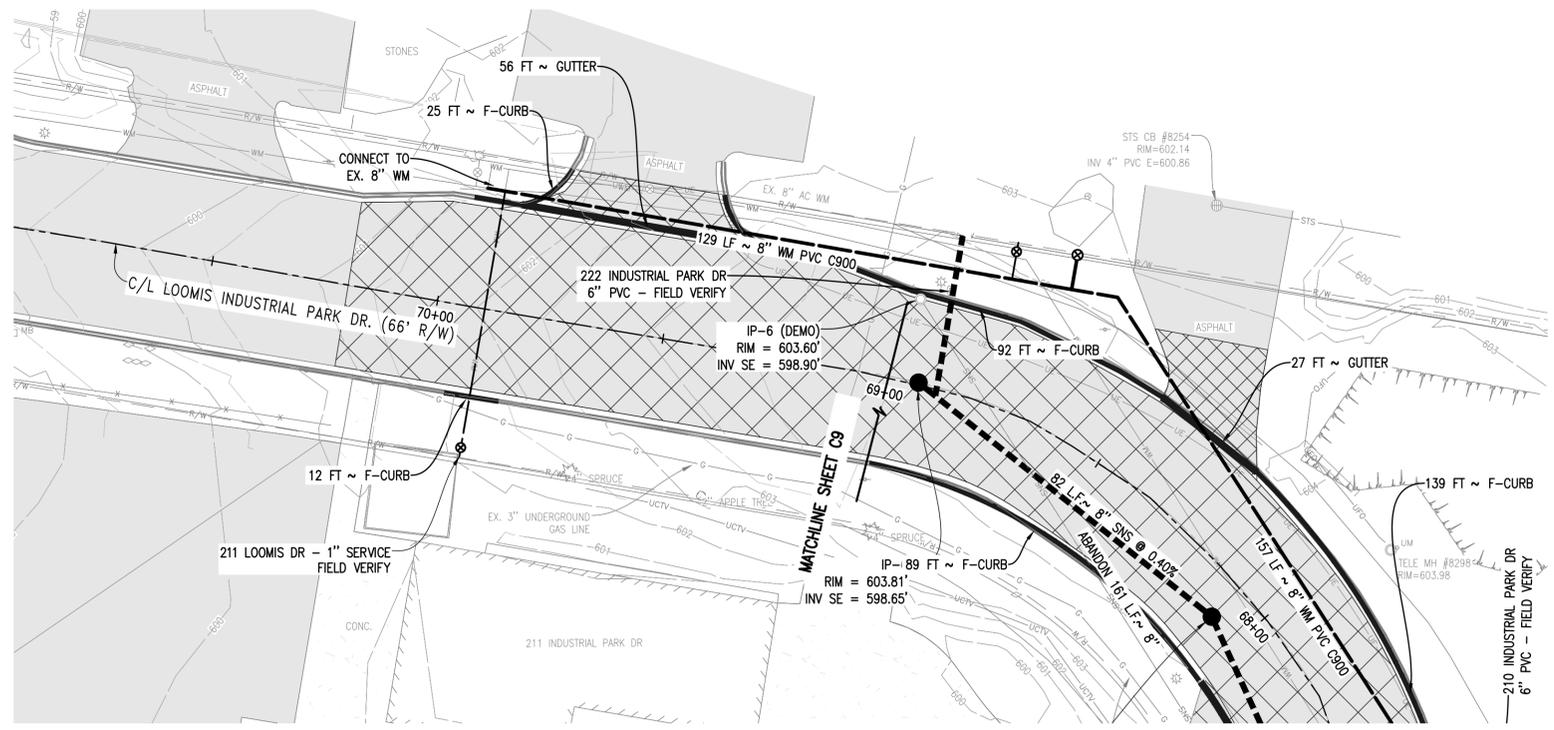
Location:  
 SECTION 21 T29N, R9W  
 VILLAGE OF ELK RAPIDS  
 ANTRIM COUNTY  
 MICHIGAN

Project Number:  
 240424

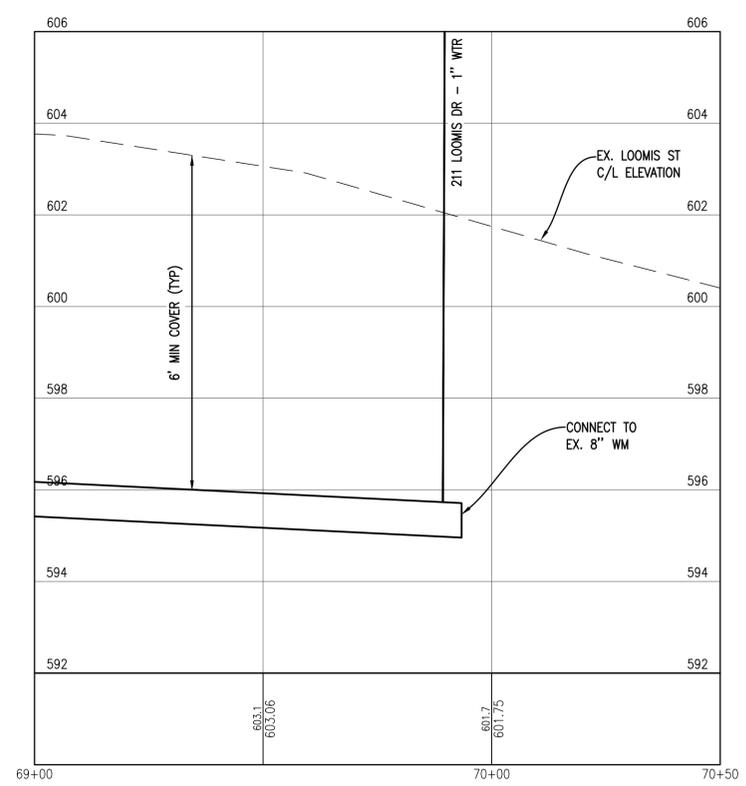
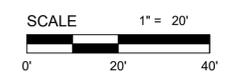
Sheet:  
**C8**







**LOOMIS ST. PLAN STA. 69+00 TO 70+50**  
SCALE: 1" = 20'



**LOOMIS ST. PROFILE STA. 69+00 TO 70+50**  
SCALE HORIZ.: 1" = 20'  
SCALE VERT.: 1" = 2'

**Gosling Czubak**  
engineering sciences, inc.  
1280 Business Park Dr.  
Traverse City, Michigan  
231-946-9191 phone  
info@goslingczubak.com  
www.goslingczubak.com

CIVIL ENGINEERING  
SURVEYING  
ENVIRONMENTAL SERVICES  
GEOTECHNICAL  
CONSTRUCTION SERVICES  
DRILLING  
LANDSCAPE ARCHITECTURE

No.	Date	Revision	By

**LOOMIS ST. STA. 69+00 TO 70+50**  
**WATERMAIN AND SEWER IMPROVEMENTS**  
VILLAGE OF ELK RAPIDS

Date Issued: APRIL 1, 2026  
Date Surveyed: 11/25/2024  
Designed By: TNK  
Drawn By: BAH  
Checked By: MJH  
Scale: AS NOTED  
Original sheet size is 22x34

Location:  
SECTION 21 T29N, R9W  
VILLAGE OF ELK RAPIDS  
ANTRIM COUNTY  
MICHIGAN

Project Number:  
240424

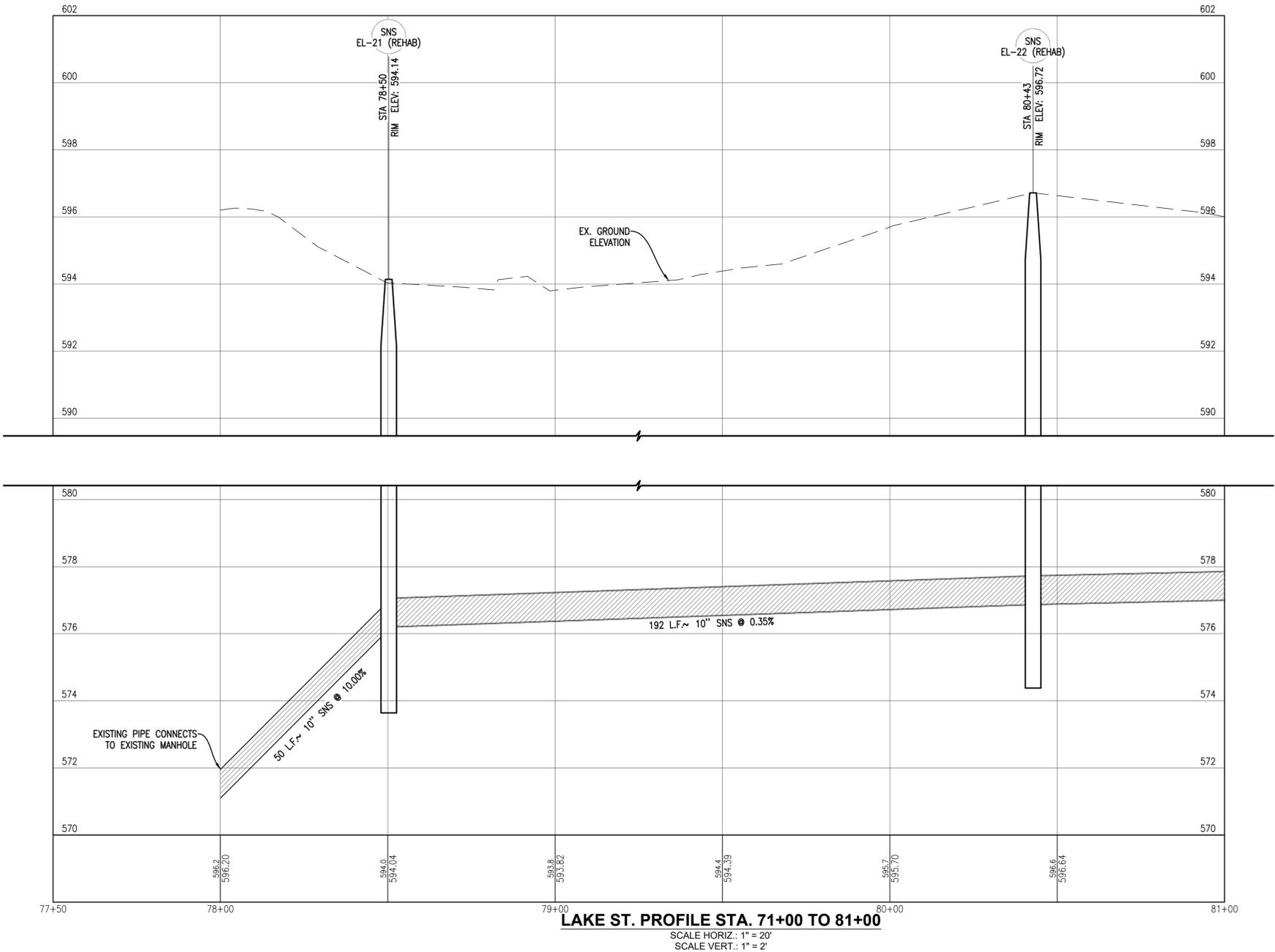
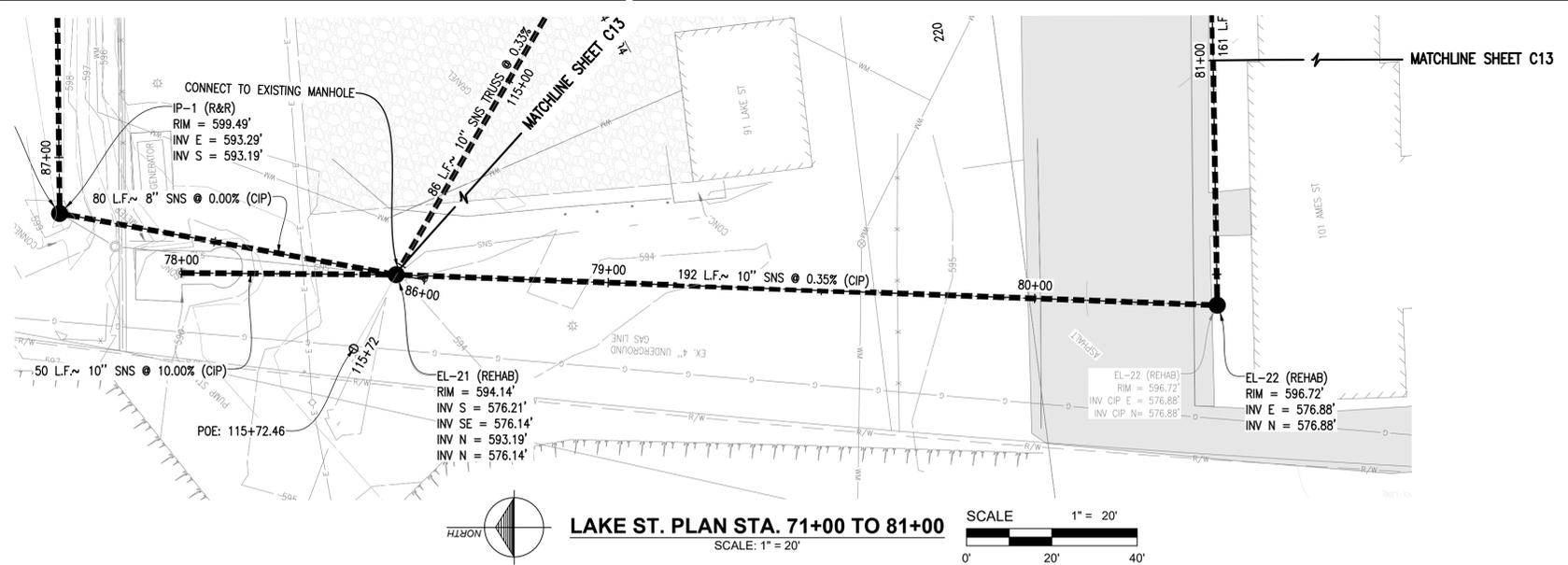
Sheet:  
**C10**



Know what's below.  
Call before you dig.

P:\2024\CADD\CADD\30240424\_P\811\_EAST.dwg Job: LOOMIS ST. WATER MAIN STA. 69+00 TO 70+50 Saved by: thomson.3252026.438 PM Plotted by: Tim Korman 3/31/2026 2:24 PM





No.	Date	Revision	By

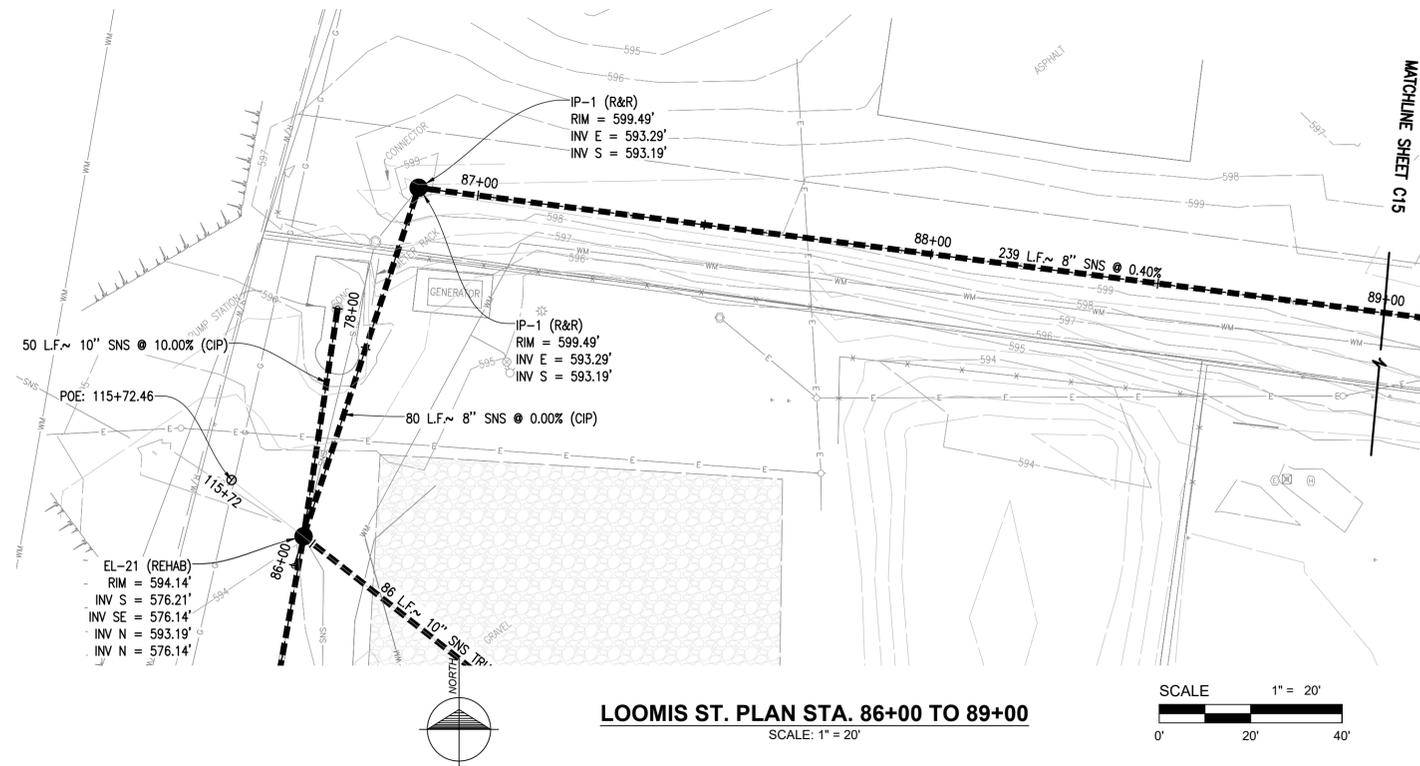
**LAKE ST. STA. 78+00 TO 81+00**  
**WATERMAIN AND SEWER IMPROVEMENTS**  
 VILLAGE OF ELK RAPIDS

Date Issued:	APRIL 1, 2026
Date Surveyed:	11/25/2024
Designed By:	TNK
Drawn By:	BAH
Checked By:	MJH
Scale:	AS NOTED
Original sheet size is 22x34	
Location: SECTION 21 T29N, R9W VILLAGE OF ELK RAPIDS ANTRIM COUNTY MICHIGAN	
Project Number:	240424
Sheet:	<b>C12</b>

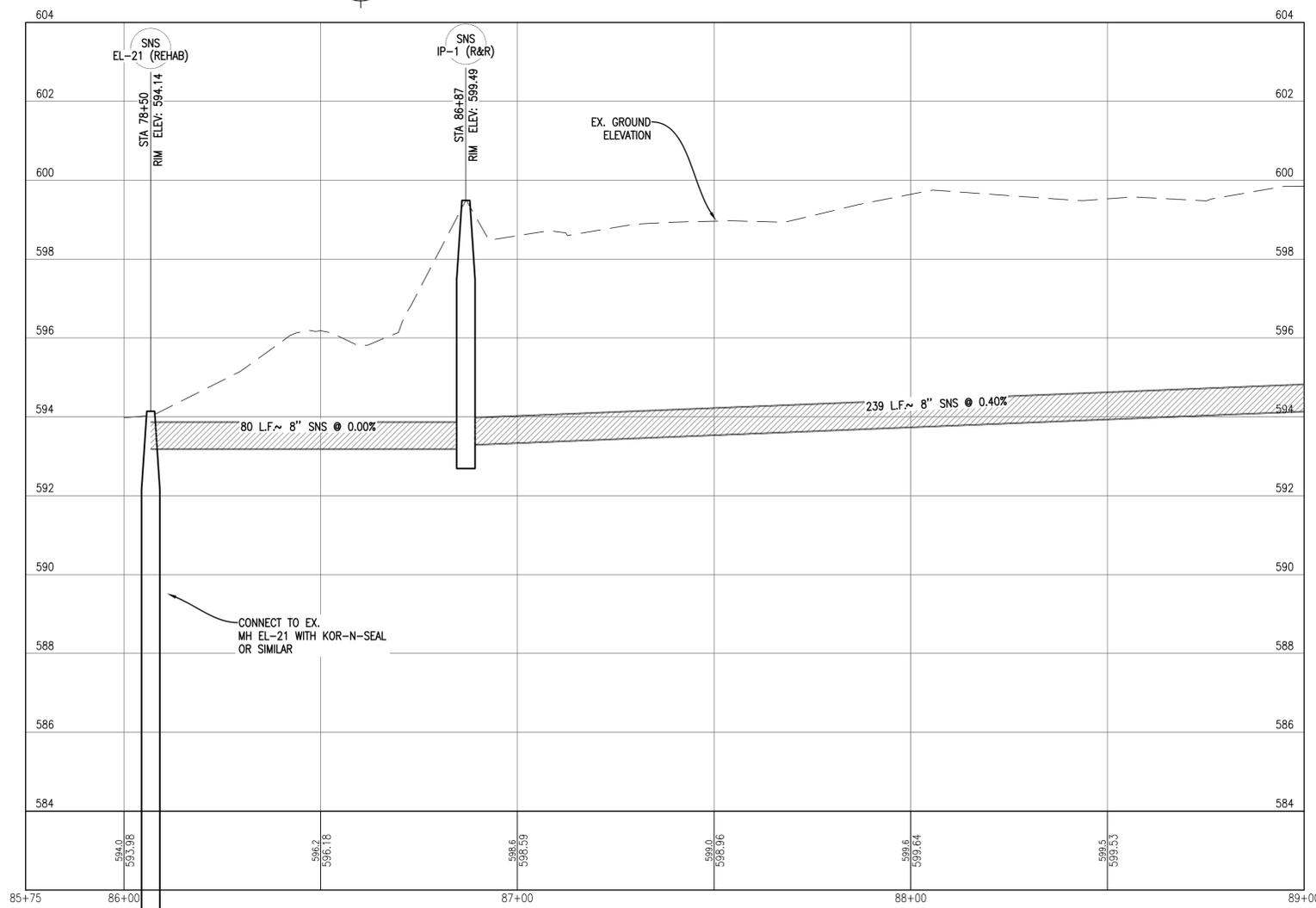


P:\2024\240424\CADD\DWG\C120424.DWG: P:\PIPE-LEAS-FILES\LAKE ST. STA. 78+00 TO 81+00.DWG Shared by: hickman.3252026-138 PM, Plotted by: Tim Korman 03/10/2025 3:25 PM





**LOOMIS ST. PLAN STA. 86+00 TO 89+00**  
SCALE: 1" = 20'



**LOOMIS ST. PROFILE STA. 86+00 TO 89+00**  
SCALE HORIZ.: 1" = 20'  
SCALE VERT.: 1" = 2'

No.	Date	Revision	By

**LOOMIS ST. STA. 86+00 TO 89+00**  
**WATERMAIN AND SEWER IMPROVEMENTS**  
VILLAGE OF ELK RAPIDS

Date Issued: APRIL 1, 2026  
Date Surveyed: 11/25/2024  
Designed By: TNK  
Drawn By: BAH  
Checked By: MJH  
Scale: AS NOTED  
Original sheet size is 22x34

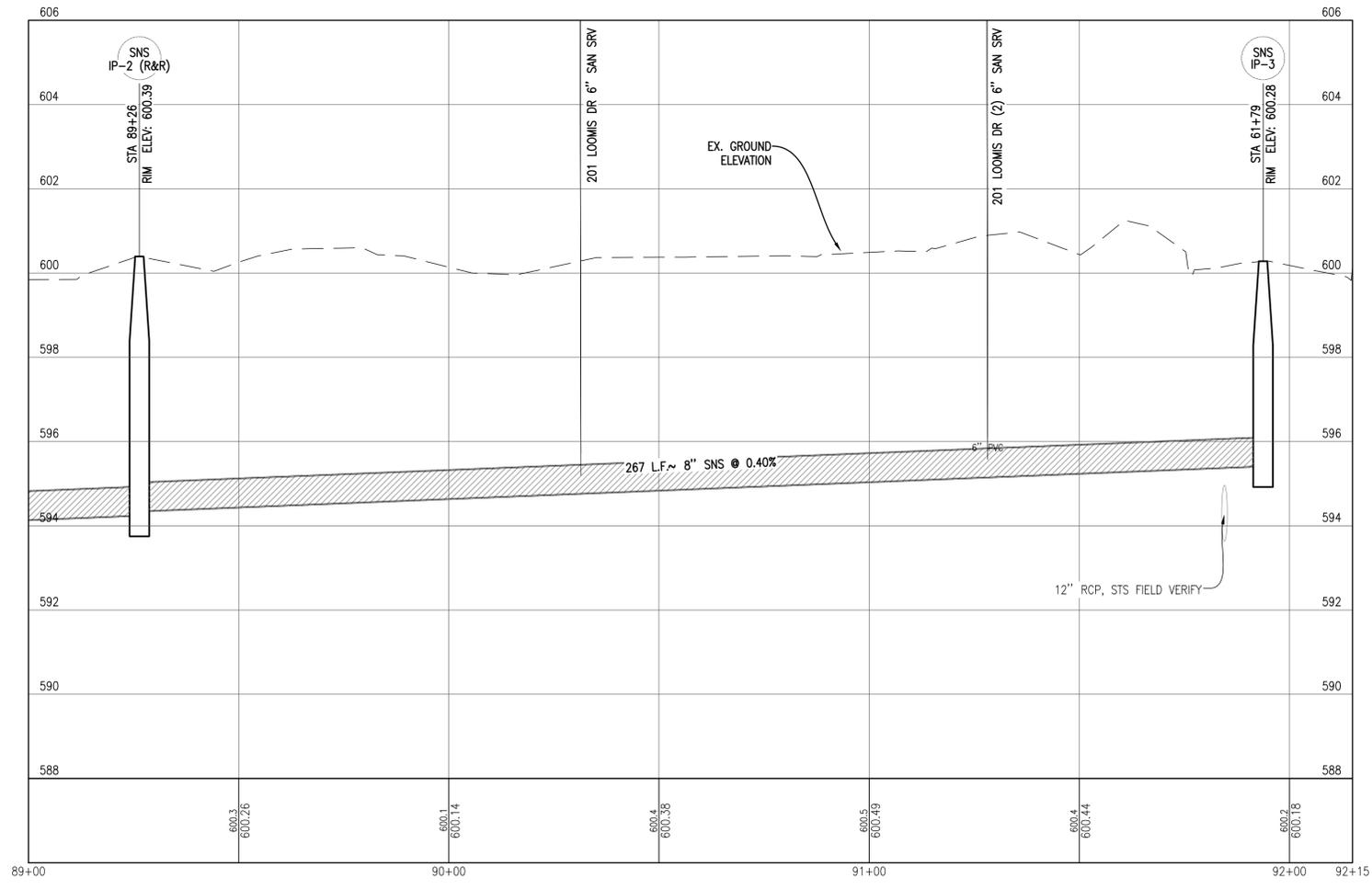
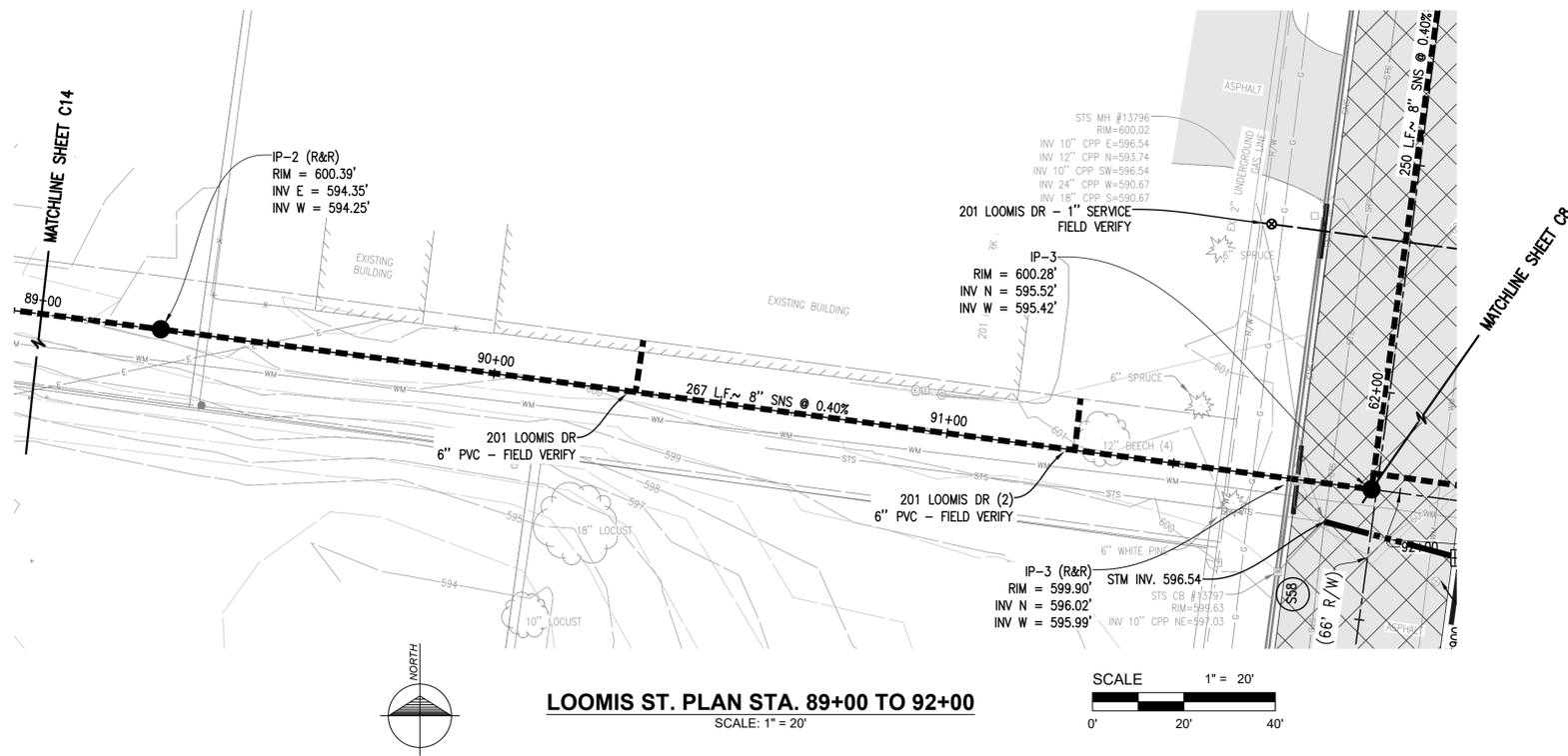
Location:  
SECTION 21 T29N, R9W  
VILLAGE OF ELK RAPIDS  
ANTRIM COUNTY  
MICHIGAN

Project Number:  
240424

Sheet:  
**C14**



P:\2024\CADD\Drawings\240424\PS - PIPE EAST.dwg Title: LOOMIS ST. SNS STA. 86+00 TO 89+00 Saved by: thaxson.3.25.2026 4:58 PM Plotted by: Tim Kosman 3/31/2026 2:26 PM



**LOOMIS ST. PROFILE STA. 89+00 TO 92+00**  
 SCALE HORIZ.: 1" = 20'  
 SCALE VERT.: 1" = 2'

No.	Date	Revision	By

**LOOMIS ST. STA. 89+00 TO 92+00**  
**WATERMAIN AND SEWER IMPROVEMENTS**  
 VILLAGE OF ELK RAPIDS

Date Issued: APRIL 1, 2026  
 Date Surveyed: 11/25/2024  
 Designed By: TNK  
 Drawn By: BAH  
 Checked By: MJH  
 Scale: AS NOTED

Original sheet size is 22x34  
 Location: SECTION 21 T29N, R9W  
 VILLAGE OF ELK RAPIDS  
 ANTRIM COUNTY  
 MICHIGAN

Project Number: 240424

Sheet: **C15**





No.	Date	Revision	By

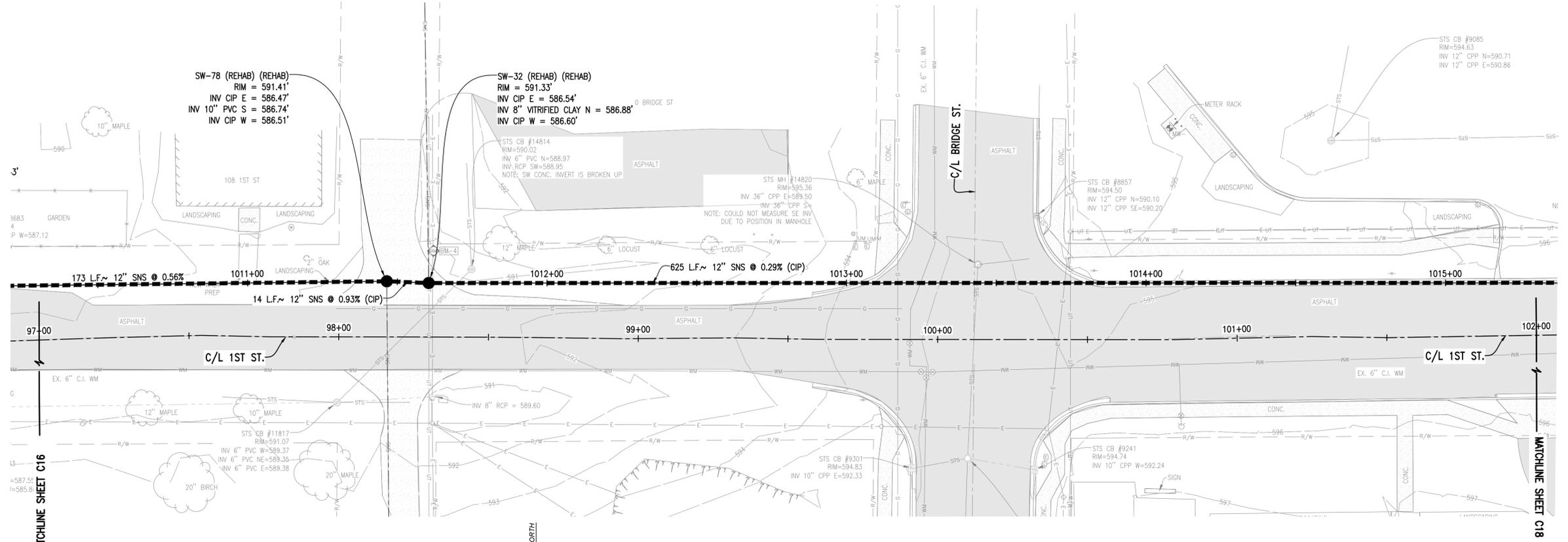
**1ST ST. STA. 97+00 TO 102+00  
 WATERMAIN AND SEWER IMPROVEMENTS  
 VILLAGE OF ELK RAPIDS**

Date Issued: APRIL 1, 2026  
 Date Surveyed: 11/25/2024  
 Designed By: TNK  
 Drawn By: BAH  
 Checked By: MJH  
 Scale: AS NOTED  
 Original sheet size is 22x34

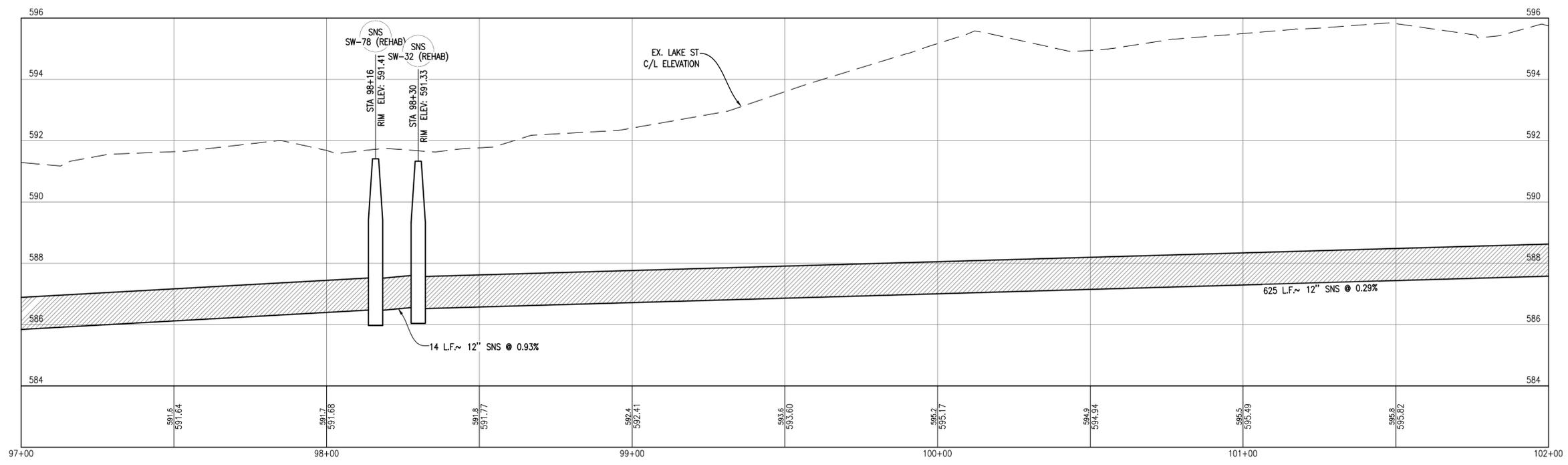
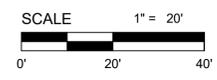
Location:  
 SECTION 21 T29N, R9W  
 VILLAGE OF ELK RAPIDS  
 ANTRIM COUNTY  
 MICHIGAN

Project Number:  
 240424

Sheet:  
**C17**

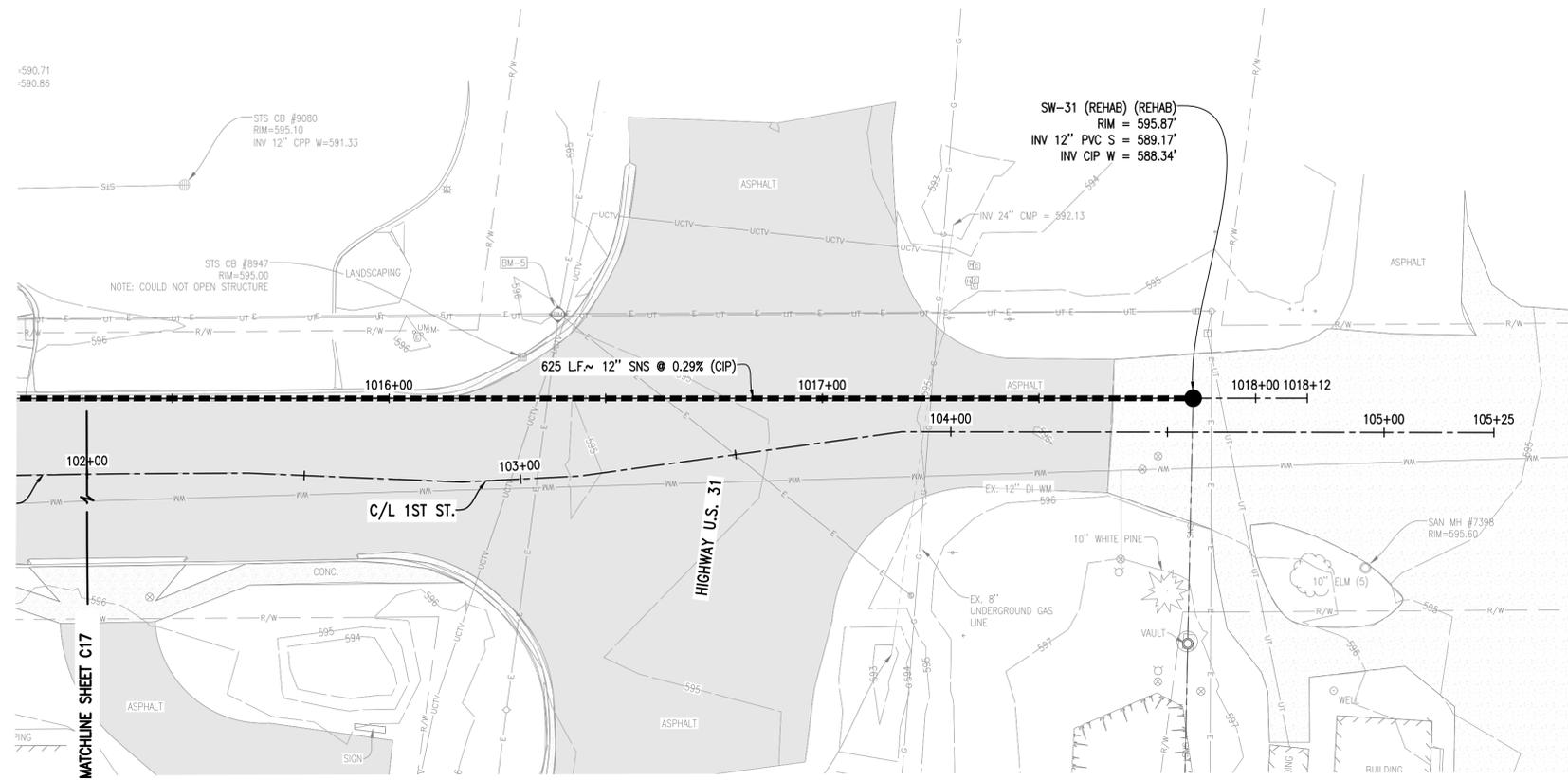


**1ST STREET PLAN STA. 97+00 TO 102+00**  
 SCALE: 1" = 20'

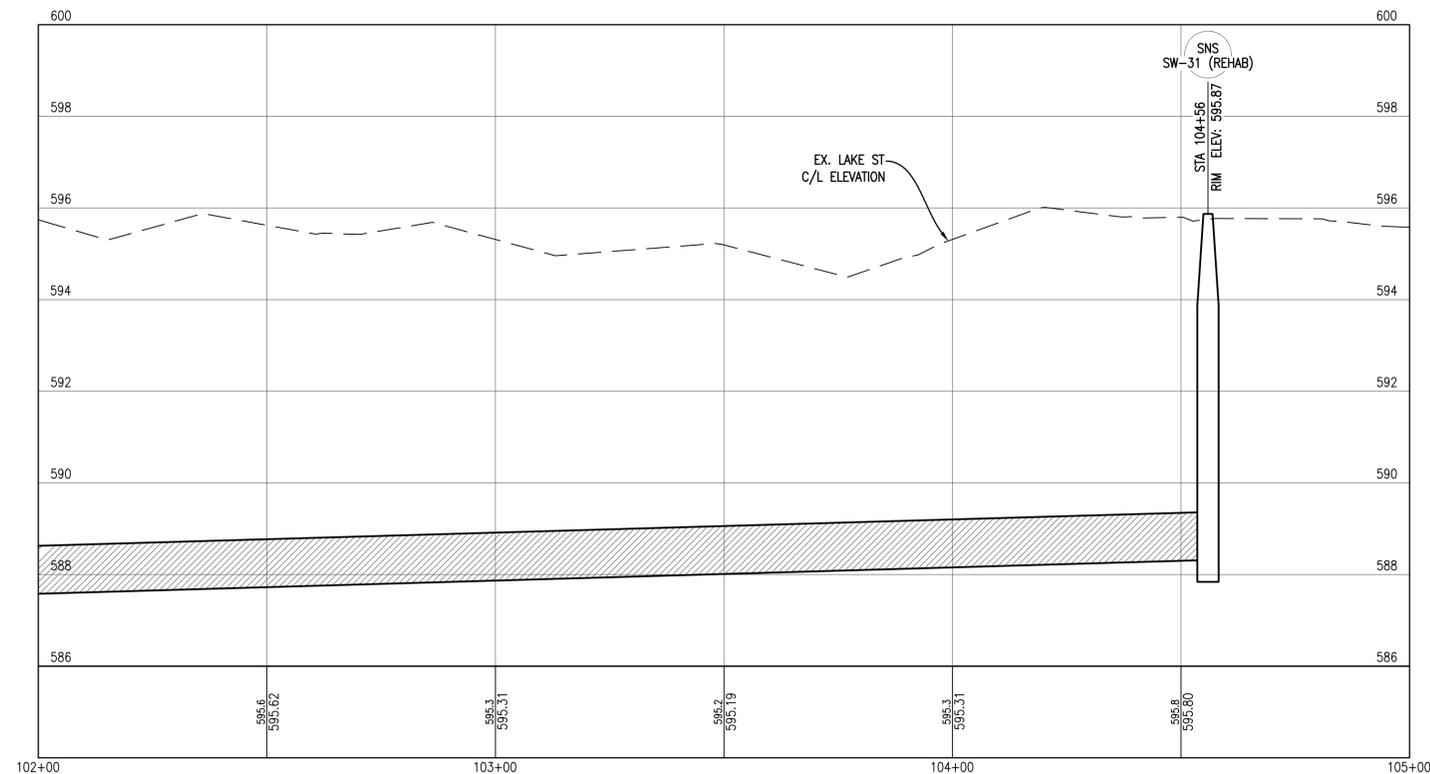


**1ST ST. PROFILE STA. 97+00 TO 102+00**  
 SCALE HORIZ.: 1" = 20'  
 SCALE VERT.: 1" = 2'





**1ST STREET PLAN STA. 102+00 TO 105+00**  
 SCALE: 1" = 20'



**1ST ST. PROFILE STA. 102+00 TO 105+00**  
 SCALE HORIZ.: 1" = 20'  
 SCALE VERT.: 1" = 2'

No.	Date	Revision	By

**1ST ST. STA. 102+00 TO 105+00**  
**WATERMAIN AND SEWER IMPROVEMENTS**  
 VILLAGE OF ELK RAPIDS

Date Issued: APRIL 1, 2026  
 Date Surveyed: 11/25/2024  
 Designed By: TNK  
 Drawn By: BAH  
 Checked By: MJH  
 Scale: AS NOTED

Original sheet size is 22x34  
 Location: SECTION 21 T29N, R9W  
 VILLAGE OF ELK RAPIDS  
 ANTRIM COUNTY  
 MICHIGAN

Project Number: 240424

Sheet: C18



Know what's below.  
 Call before you dig.





No.	Date	Revision	By

**IRON PLANT STA. 112+50 TO 116+00**  
**WATERMAIN AND SEWER IMPROVEMENTS**  
 VILLAGE OF ELK RAPIDS

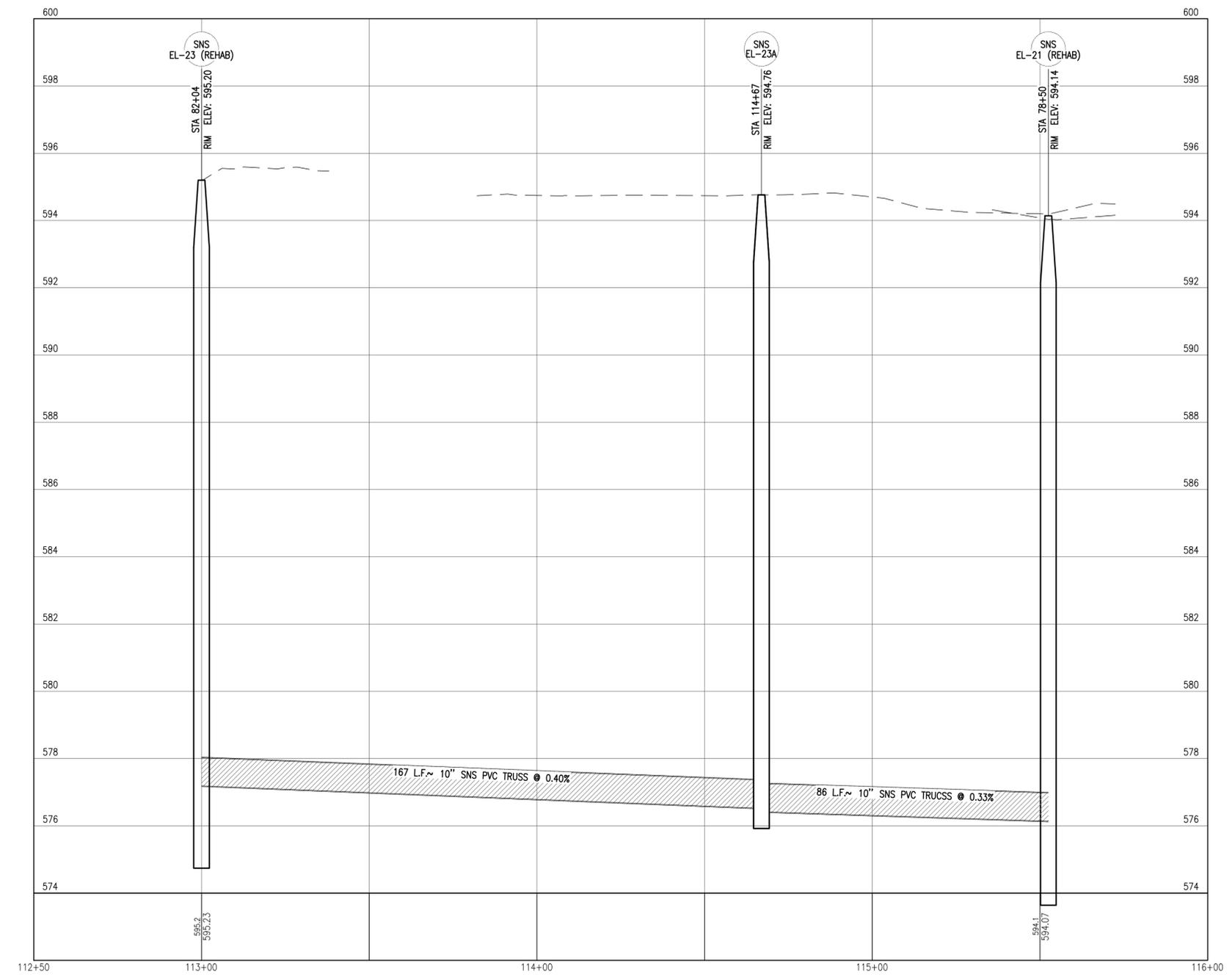
Date Issued: APRIL 1, 2026  
 Date Surveyed: 11/25/2024  
 Designed By: TNK  
 Drawn By: BAH  
 Checked By: MJH  
 Scale: AS NOTED

Original sheet size is 22x34

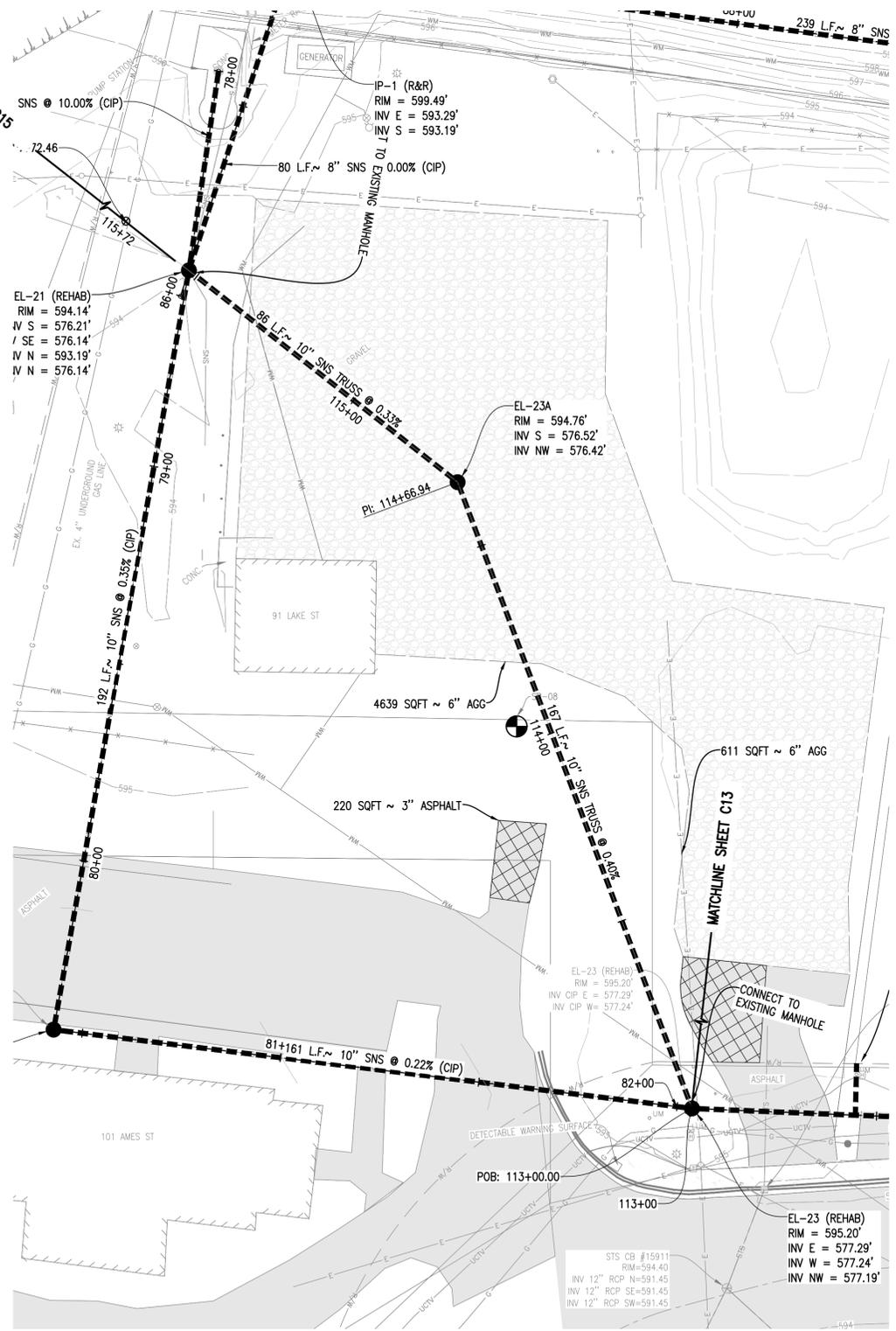
Location:  
 SECTION 21 T29N, R9W  
 VILLAGE OF ELK RAPIDS  
 ANTRIM COUNTY  
 MICHIGAN

Project Number:  
 240424

Sheet:  
**C21**



**IRON REMOVAL PLANT STA. 112+50 TO 116+00**  
 SCALE HORIZ.: 1" = 20'  
 SCALE VERT.: 1" = 2'



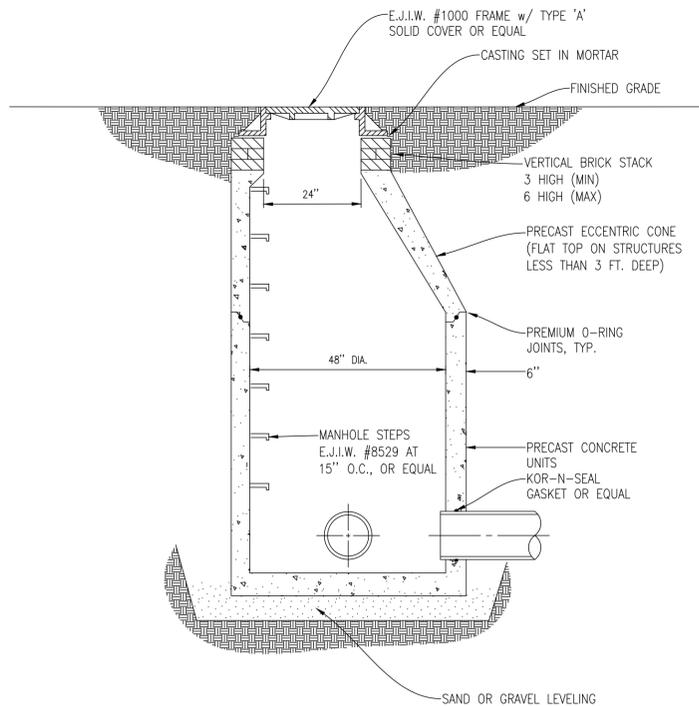
**IRON REMOVAL PLANT STA. 89+00 TO 92+00**  
 SCALE: 1" = 20'



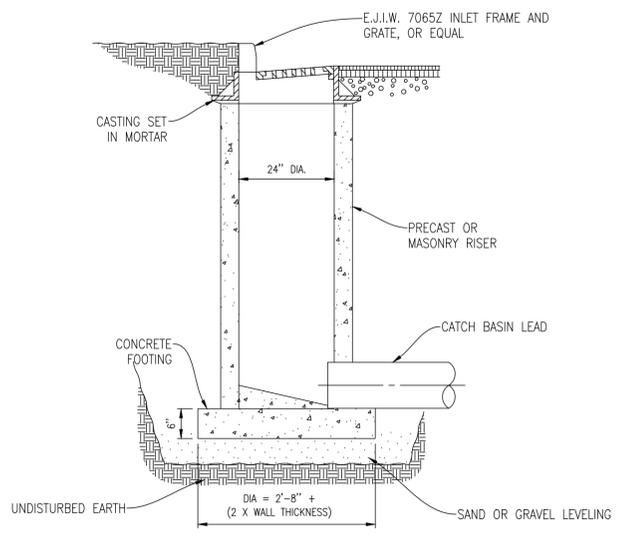




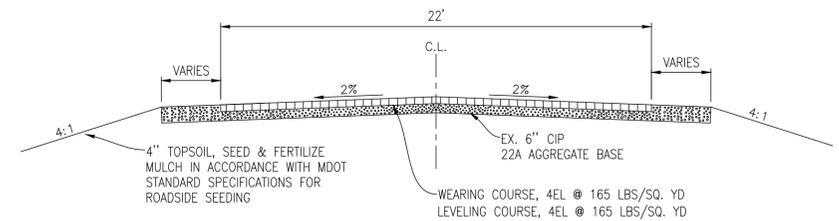




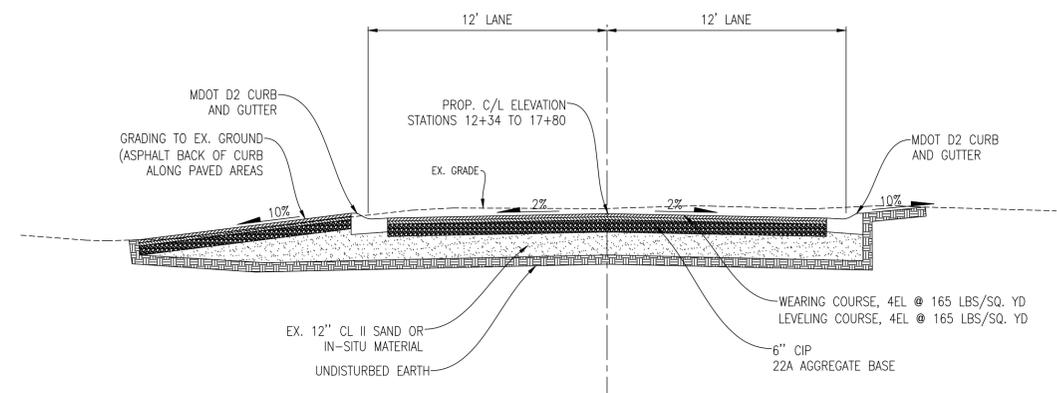
**STORM MANHOLE DETAIL**  
 NO SCALE



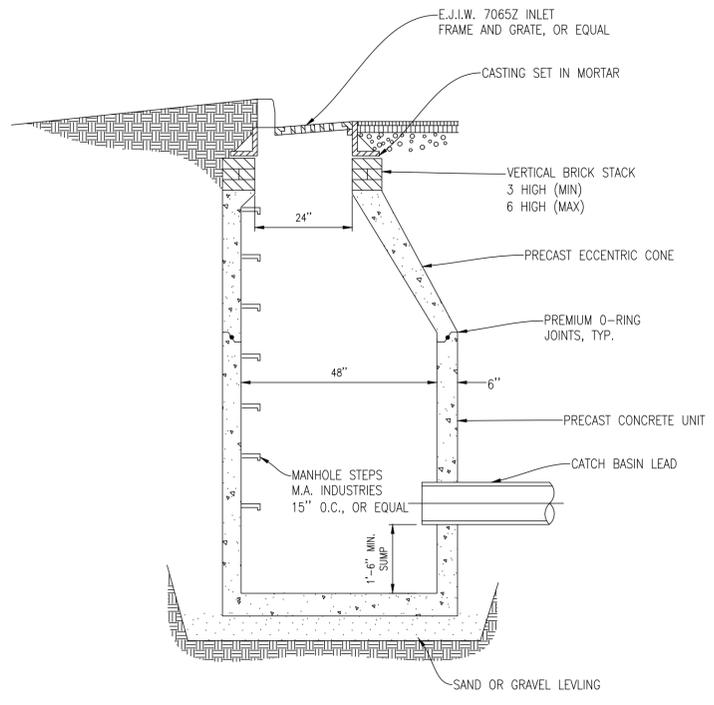
**STORM INLET DETAIL**  
 NO SCALE



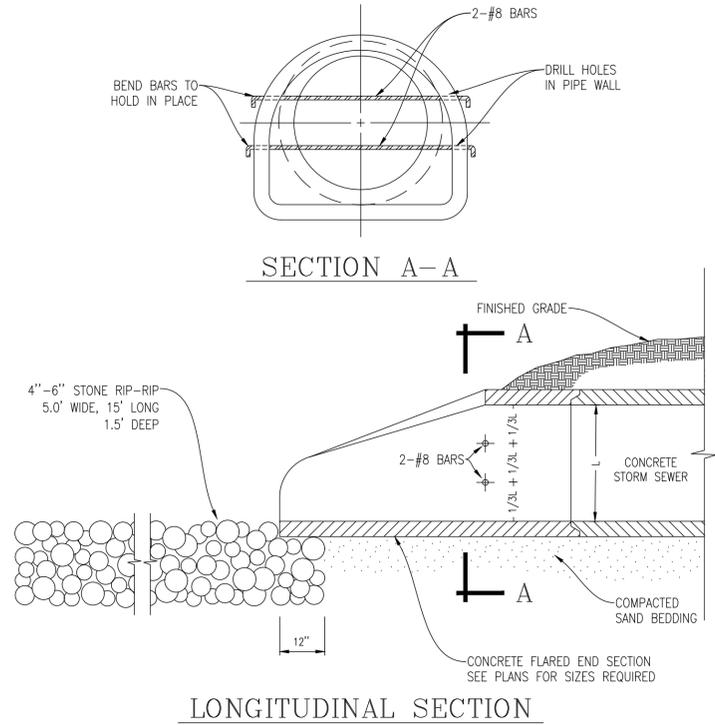
**STANDARD ROAD CROSS SECTIONS**  
 NO SCALE



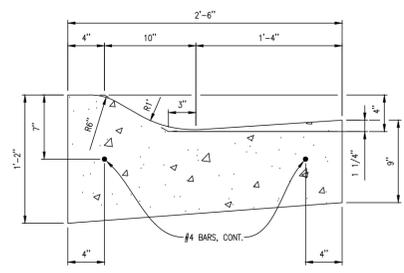
**STANDARD M.D.O.T. "D2" CONCRETE CURB & GUTTER DETAIL**  
 NOT TO SCALE



**4 FT. DIA CATCH BASIN**  
 NO SCALE



**STORM SEWER OUTLET DETAIL**  
 NO SCALE



**SECTION A-A**

No.	Date	Revision	By

**STORM WATER DETAILS  
 WATERMAIN AND SEWER IMPROVEMENTS  
 VILLAGE OF ELK RAPIDS**

Date Issued: APRIL 1, 2026  
 Date Surveyed: 11/25/2024  
 Designed By: TNK  
 Drawn By: BAH  
 Checked By: MJH  
 Scale: AS NOTED  
 Original sheet size is 22x34

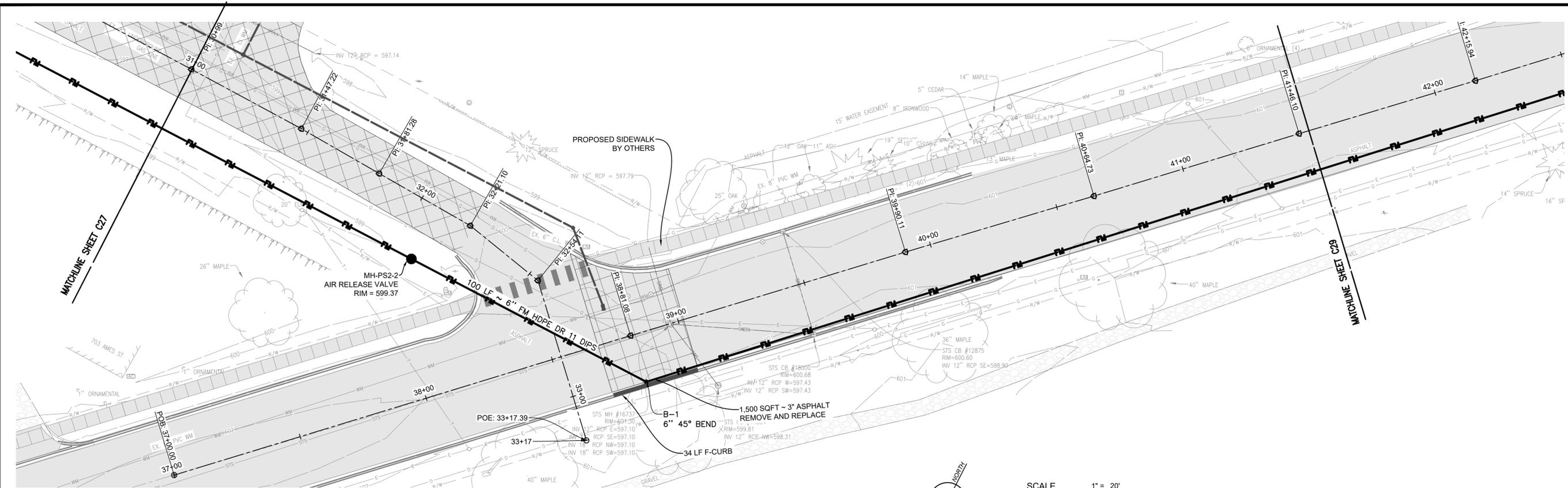
Location:  
 SECTION 21 T29N, R9W  
 VILLAGE OF ELK RAPIDS  
 ANTRIM COUNTY  
 MICHIGAN

Project Number:  
 240424

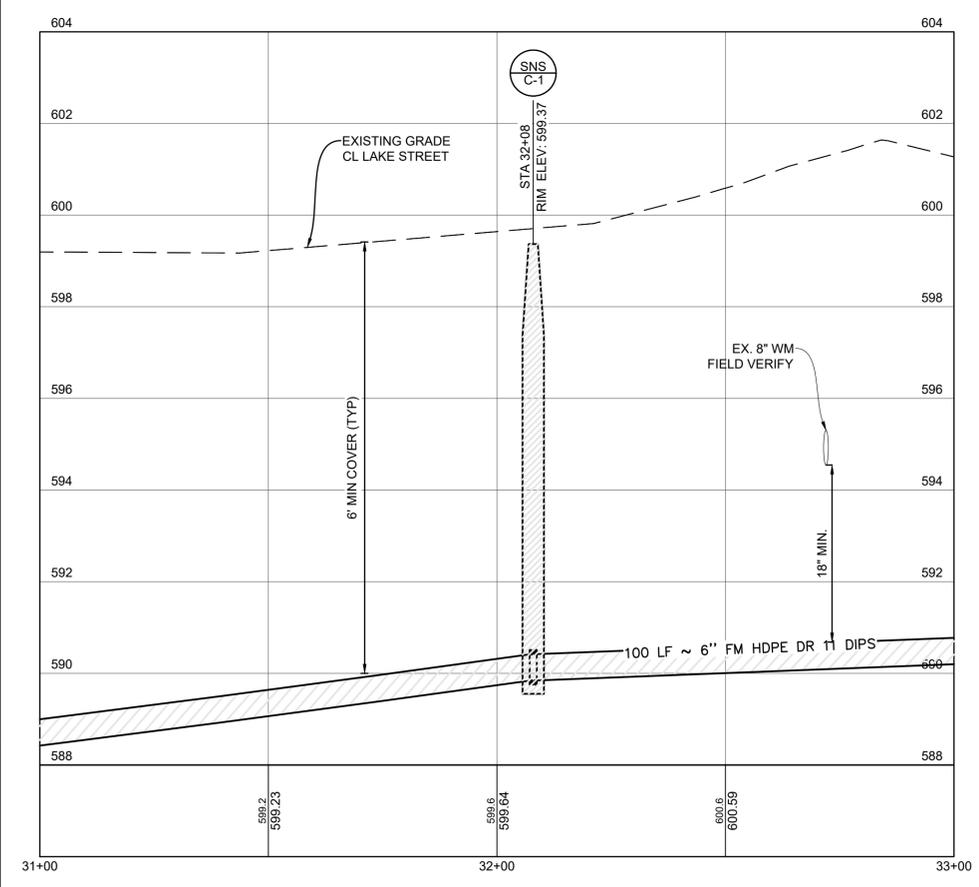
Sheet:  
**C25**



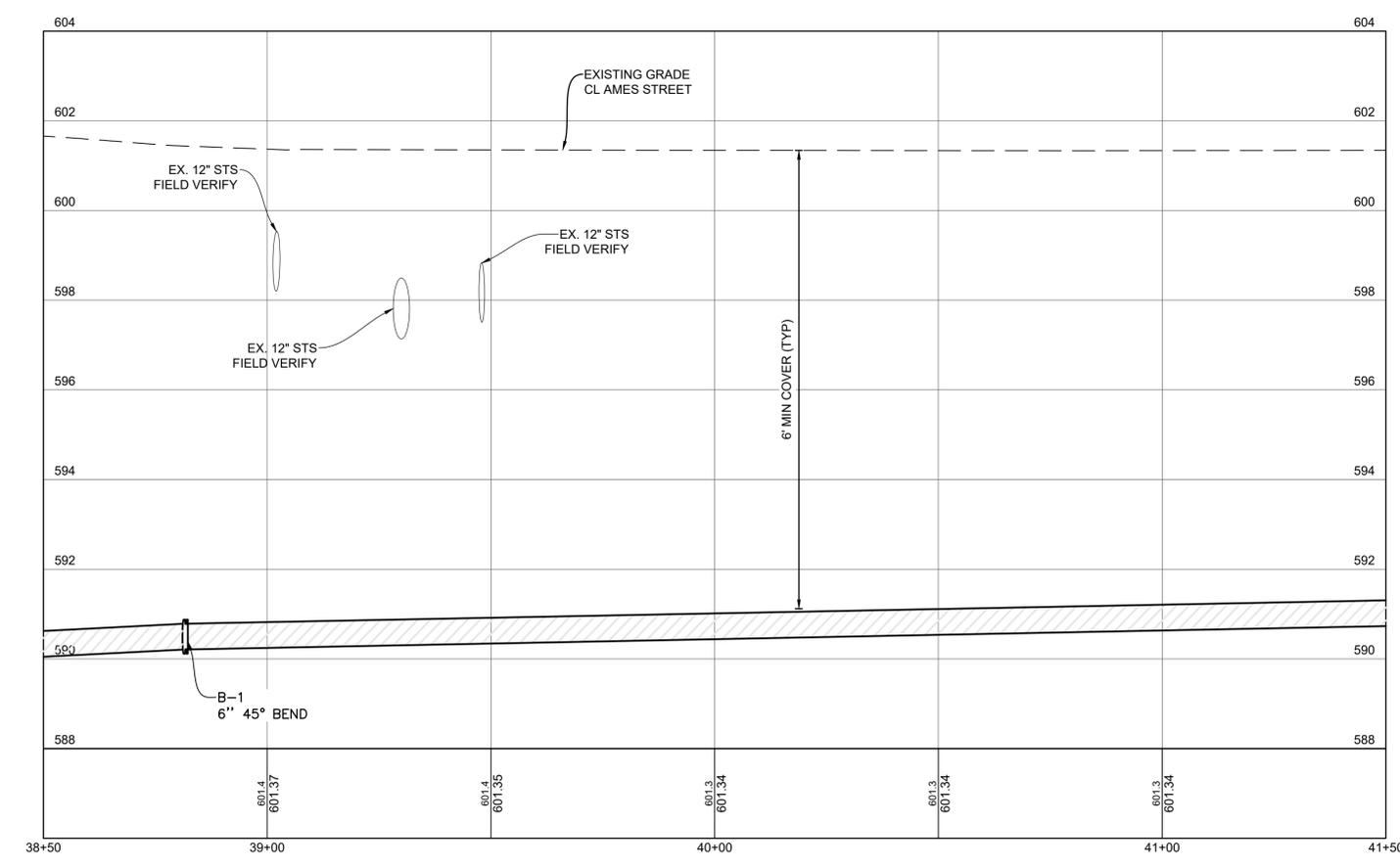




**LAKE & AMES ST - FROM STA. 31+00 TO STA. 41+50 PLAN**  
 1" = 20'



**LAKE ST - FROM STA. 31+00 TO STA. 33+00 PROFILE**  
 HORIZ: 1" = 20'  
 VERT: 1" = 2'



**AMES ST - FROM STA. 38+50 TO STA. 41+50 PROFILE**  
 HORIZ: 1" = 20'  
 VERT: 1" = 2'

**NOTES**

- SEE SHEET G2 GENERAL NOTES, FOR WATER UTILITY NOTES, SOIL EROSION AND SEDIMENTATION CONTROL NOTES AND DRAWING LEGEND.
- SEE SHEET C36 FOR STANDARD DETAILS.



THE LOCATION OF THE EXISTING UTILITIES, AS SHOWN ON THIS PLAN, ARE APPROXIMATE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ACTUAL LOCATION AND DEPTH OF ALL EXISTING UTILITIES. THE OWNER AND THE SURVEYOR SHALL NOT BE RESPONSIBLE FOR ANY OMISSION OR VARIATION FROM THE LOCATION SHOWN. THE CONTRACTOR SHALL NOTIFY MISS DIG! AT 1 (800) 482-7171 OR 811 THREE (3) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.

No.	Date	Revision	By
###	###	###	###
###	###	###	###
###	###	###	###
###	###	###	###
###	###	###	###
###	###	###	###
###	###	###	###
###	###	###	###
###	###	###	###
###	###	###	###

**LAKE ST. FM STA. 31+00 TO 41+50  
 WATERMAIN AND SEWER IMPROVEMENTS  
 VILLAGE OF ELK RAPIDS**

Date Issued: APRIL 1, 2026  
 Date Surveyed: 11/25/2024  
 Designed By: TNK  
 Drawn By: BAH  
 Checked By: MJH  
 Scale: AS NOTED  
 Original sheet size is 22x34

Location: SECTION 21 T29N, R9W  
 VILLAGE OF ELK RAPIDS  
 ANTRIM COUNTY  
 MICHIGAN

Project Number: 240424

Sheet: **C28**





# Construction Plans For CHERRY CAPITAL COMMUNICATIONS IMPROVEMENTS

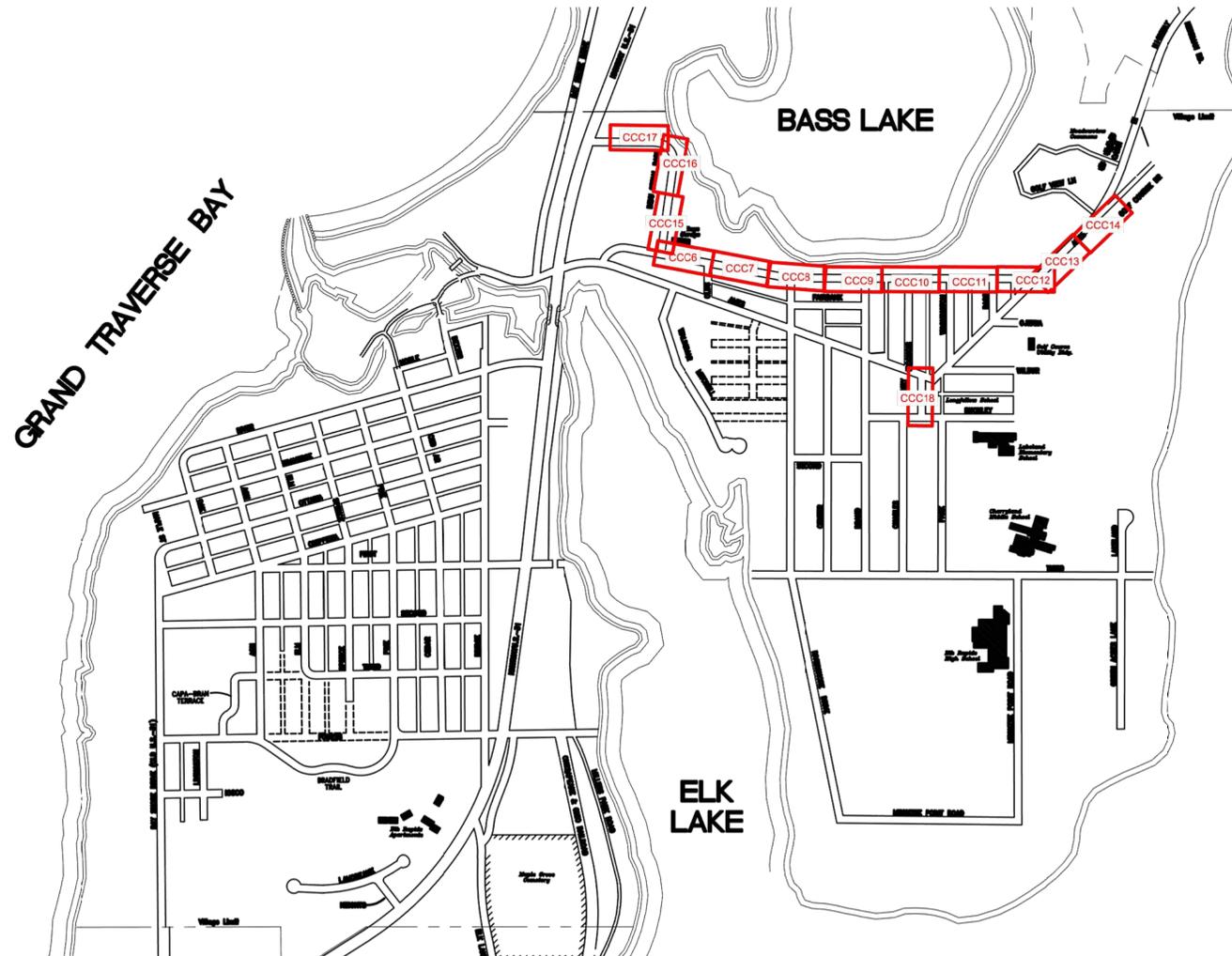
## Village of Elk Rapids - Antrim County - Michigan

Sections 20 & 21, Township 29N, Range 09W

**OWNER**  
CHERRY CAPITAL  
COMMUNICATIONS  
P.O. BOX 866  
ELK RAPIDS, MI  
(231) 264-9970

**Engineer**  
CCI SYSTEMS INC.  
105 KENT ST.  
IRON MOUNTAIN, MI  
(800) 338-9299  
www.ccisystems.com

TRAVERSE CITY, MICHIGAN 49686-8607 ELK RAPIDS, MICHIGAN 49629



Village of Elk Rapids  
Site Location Map

SCALE: 1" = 600'

Sheet List Table	
Sheet Number	Sheet Title
CCC1	COVER
CCC2	BILL OF MATERIALS/ BID ITEMS
CCC3	GENERAL NOTES
CCC4	GENERAL NOTES
CCC5	GENERAL NOTES
CCC6	CONSTRUCTION SHEETS/ PROFILE
CCC7	CONSTRUCTION SHEETS/ PROFILE
CCC8	CONSTRUCTION SHEETS/ PROFILE
CCC9	CONSTRUCTION SHEETS/ PROFILE
CCC10	CONSTRUCTION SHEETS/ PROFILE
CCC11	CONSTRUCTION SHEETS/ PROFILE
CCC12	CONSTRUCTION SHEETS/ PROFILE
CCC13	CONSTRUCTION SHEETS/ PROFILE
CCC14	CONSTRUCTION SHEETS/ PROFILE
CCC15	CONSTRUCTION SHEETS/ PROFILE
CCC16	CONSTRUCTION SHEETS/ PROFILE
CCC17	CONSTRUCTION SHEETS/ PROFILE
CCC18	CONSTRUCTION SHEETS/ PROFILE



**PUBLIC UTILITIES**

THE EXISTING UTILITIES LISTED BELOW AND SHOWN ON THESE PLANS REPRESENT THE BEST INFORMATION AVAILABLE. THIS INFORMATION DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO BE SATISFIED AS TO ITS ACCURACY AND THE LOCATION OF EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY "MISS DIG" (1-800-482-7171) THREE WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.

**DTE ENERGY COMPANY  
GAS DISTRIBUTION**

1294 NORTH U.S. 31  
PETOSKEY, MI 49770  
231-258-3785

**DTE ENERGY COMPANY  
HIGH PRESSURE GAS TRANSMISSION**

250 MICHIGAN LN.  
KALKASKA, MI 49648  
231-490-7648

**CHARTER COMMUNICATIONS VILLAGE OF ELK RAPIDS DEW**

701 S. AIRPORT RD.  
TRAVERSE CITY, MI 49686  
231-929-7012 EXT. 102

**CONSUMERS ENERGY**

821 HASTINGS  
TRAVERSE CITY, MI 49686  
231-929-8244

MR. ALEX PRAY  
315 BRIDGE STREET  
P.O. BOX 398  
ELK RAPIDS, MI 49629  
231-264-9971

**AT&T**

142 E. STATE STREET  
TRAVERSE CITY, MI 49684  
231-941-2707



Know what's below.  
Call before you dig.

THE LOCATION OF THE EXISTING UTILITIES, AS SHOWN ON THIS PLAN, ARE APPROXIMATE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ACTUAL LOCATION AND DEPTH OF ALL EXISTING UTILITIES. THE OWNER AND THE SURVEYOR SHALL NOT BE RESPONSIBLE FOR ANY OMISSION OR VARIATION FROM THE LOCATION SHOWN. THE CONTRACTOR SHALL NOTIFY "MISS DIG" AT 1 (800) 482-7171 OR 811 THREE (3) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.

ORIGINAL SHEET SIZE IS 22x34 - HALF SCALE SHEET IS 11x17

Location: SECTION 21 T29N, R9W  
VILLAGE OF ELK RAPIDS  
ANTRIM COUNTY  
MICHIGAN

Project Number:

Sheet:

CCC1



# BILL OF MATERIALS

DESCRIPTION	
CLIENT	CHERRY CAPITAL CCOMMUNICATIONS
PROJECT NAME	LAKE ST FTTP
PROJECT NUMBER	
SITE(S)	ELK RAPIDS
PREPARED BY	JACOB VANDENHEUVEL
REVIEWED BY	JACOB VANDENHEUVEL

## A. Item No. – 1.25" SDR 11 HDPE CONDUIT - TOTAL QTY 7,125'

### 1. Description / Basis of Payment

Payment includes all material, labor, equipment, and incidentals necessary for the proper installation of the 1.25" SDR 11 HDPE conduit, including but not limited to: conduit, couplings, fittings, trenching or boring, bedding, backfill, restoration, coordination with other utilities, and maintaining required depth and bend radius. Installation shall include gradual transitions into handholes and compliance with manufacturer bend radius requirements.

### 2. Unit of Measure

Lineal foot installed, measured along the centerline of conduit from center of handhole to center of handhole or to termination point, as applicable.

## B. Item No. – 24" x 36" x 24" HANDHOLE - TOTAL QTY 13

### 1. Description / Basis of Payment

Payment includes furnishing and installation of a 24" x 36" x 24" handhole, including excavation, bedding, setting handhole flush with finished grade, conduit entry, minimum 12 feet of conduit stubbed into the handhole, grounding system, backfill, restoration, and all associated materials and labor necessary for a complete installation.

### 2. Unit of Measure

Each handhole installed.

## C. Item No. – 17" x 30" x 24" HANDHOLE - TOTAL QTY 25

### 1. Description / Basis of Payment

Payment includes furnishing and installation of a 17" x 30" x 24" handhole, including excavation, bedding, setting handhole flush with finished grade, conduit entry, minimum 12 feet of conduit stubbed into the handhole, grounding system, backfill, restoration, and all associated materials and labor necessary for a complete installation.

### 2. Unit of Measure

Each handhole installed.

## D. Item No. – 10" x 10" FLOWER POT - TOTAL QTY 24

### 1. Description / Basis of Payment

Payment includes furnishing and installation of a 10" x 10" flower pot or road crossing structure, including excavation or boring as required, conduit installation, fittings, backfill, restoration, coordination with existing or proposed utilities, and all materials and labor necessary for a complete installation in accordance with the plans and typical details.

### 2. Unit of Measure

Each flower pot installed.

## E. Item No. – 8' GROUND ROD - TOTAL QTY 38

### 1. Description / Basis of Payment

Payment includes furnishing and installation of one (1) 8-foot ground rod at each CCC handhole or flower pot, including grounding conductor, connections, clamps, testing as required, and all materials and labor necessary to provide a complete grounding system in accordance with CCC standards.

### 2. Unit of Measure

Each ground rod installed.

## 1. CONTACT INFORMATION - CHERRY CAPITAL COMMUNICATIONS - TIM MAYLONE - (231) 264-9970

### NOTES:

THESE ARE THE MAJOR MATERIALS IDENTIFIED IN THE DESIGN PACKAGE. CONTRACTOR TO PROVIDE ANY OTHER NECESSARY MATERIALS REFER TO STANDARDS FOR LATEST APPROVED MATERIALS, DEFAULT TO WEC FIBER STANDARDS TO RESOLVE ANY DISCREPANCY MATERIALS DO NOT INCLUDE THOSE NEEDED FOR GUYING AT DEAD END STRUCTURES, CONTRACTOR TO PROVIDE THESE

GENERAL CONSTRUCTION NOTES:

PROPOSED CCC 1.25" SDR 11 CONDUIT TO BE INSTALLED ABOVE PROPOSED ROADWAY UTILITIES WHERE CO-LOCATED. MAINTAIN MINIMUM 36" COVER AND MAXIMUM COVER OF 48", SUBJECT TO FIELD CONDITIONS. FINAL HORIZONTAL AND VERTICAL ALIGNMENT TO BE VERIFIED IN FIELD

CCC CONDUIT SHOWN FOR COORDINATION PURPOSES ONLY. MINOR ADJUSTMENTS TO DEPTH AND ALIGNMENT MAY BE REQUIRED TO AVOID CONFLICTS WITH PROPOSED OR EXISTING UTILITIES.

PROPOSED CCC 1.25" SDR 11 CONDUIT TO ENTER HANDHOLE WITH GRADUAL HORIZONTAL AND VERTICAL TRANSITION. NO SHARP BENDS OR KINKS PERMITTED. MINIMUM BEND RADIUS TO BE MAINTAINED PER MANUFACTURER REQUIREMENTS.

AT PROPOSED HANDHOLE LOCATIONS; PROVIDE MINIMUM 12" OF CONDUIT STUBBED INTO HANDHOLE UNLESS OTHERWISE NOTED

ALL 24"x36"x24" & 17"x30"x24" HANDHOLES TO BE SET FLUSH WITH FINISHED GRADE UNLESS OTHERWISE NOTED.

ALL 24"x36"x24" & 17"x30"x24" HANDHOLES TO HAVE (1) 8' GROUND ROD INSTALLED.

## KEY MAP



1.25 DUCT



24X36X24 HANDHOLE



17X30X24 HANDHOLE



FLOWER POT



GROUND



Know what's below.  
Call before you dig.

Location:  
SECTION 21 T29N, R9W  
VILLAGE OF ELK RAPIDS  
ANTRIM COUNTY  
MICHIGAN

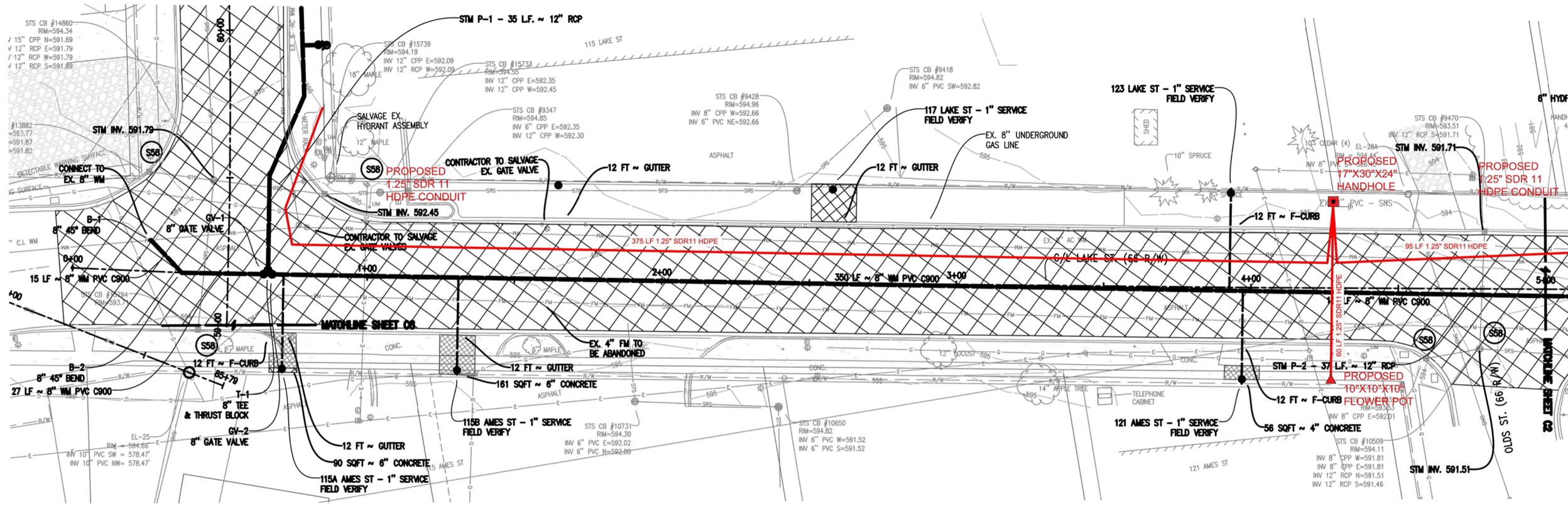
Project Number:

Sheet:

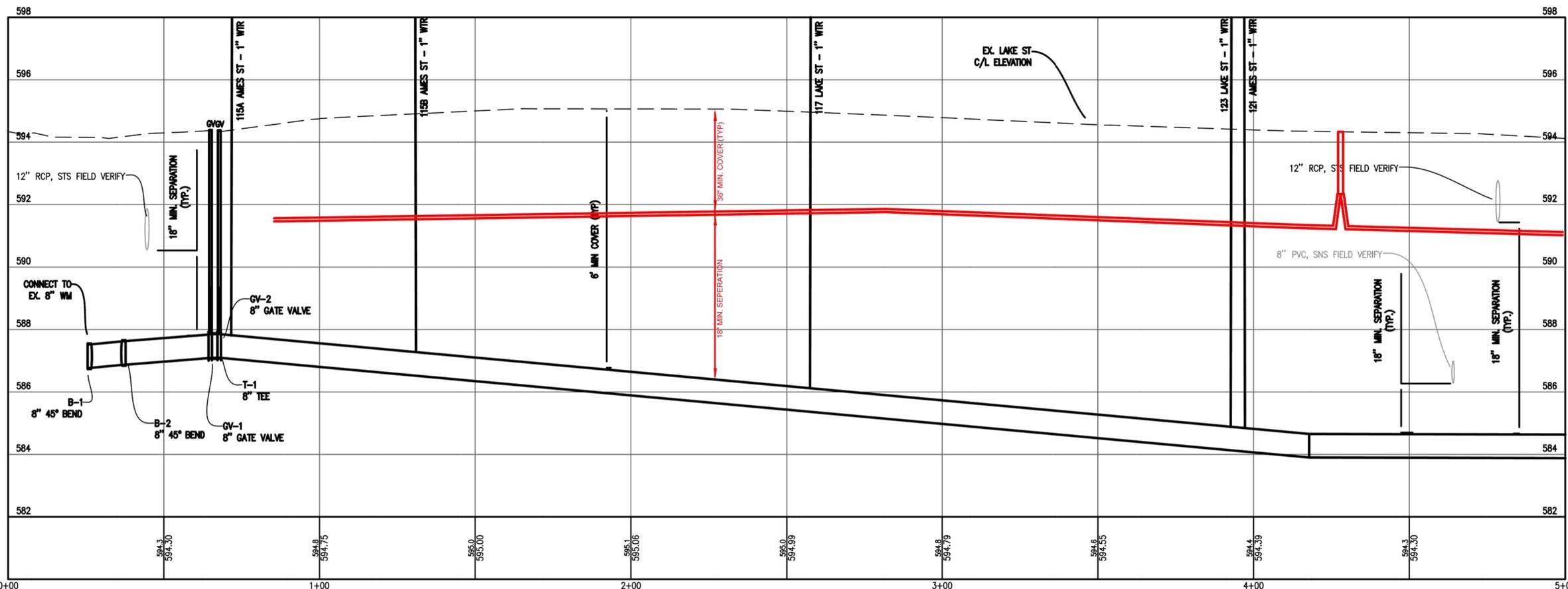
CCC3







LAKE ST. PLAN STA. 0+00 TO 5+00  
SCALE: 1" = 20'



LAKE ST. PROFILE STA. 0+00 TO 5+00  
SCALE HORIZ.: 1" = 20'  
SCALE VERT.: 1" = 2'

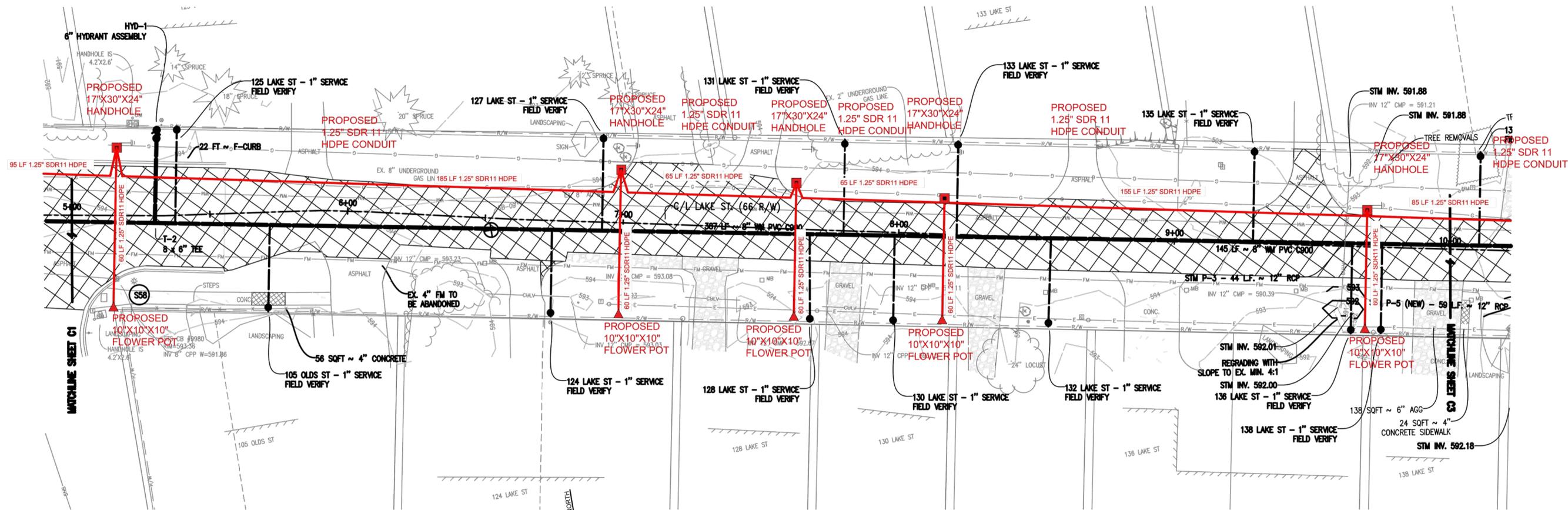


Know what's below.  
Call before you dig.

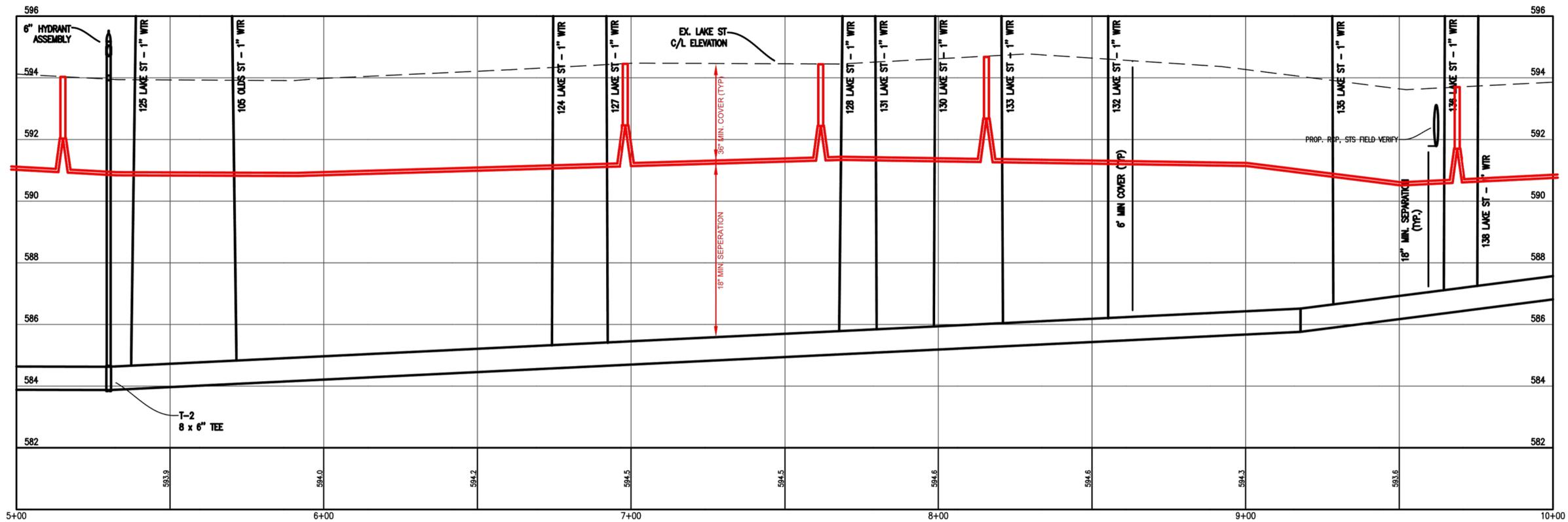
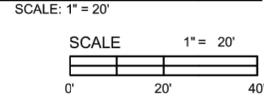
Location:  
SECTION 21 T29N, R9W  
VILLAGE OF ELK RAPIDS  
ANTRIM COUNTY  
MICHIGAN

Project Number:  
240424

Sheet:  
CCC6



LAKE ST. PLAN STA. 5+00 TO 10+00



LAKE ST. PROFILE STA. 5+00 TO 10+00

SCALE HORIZ.: 1" = 20'  
SCALE VERT.: 1" = 2'

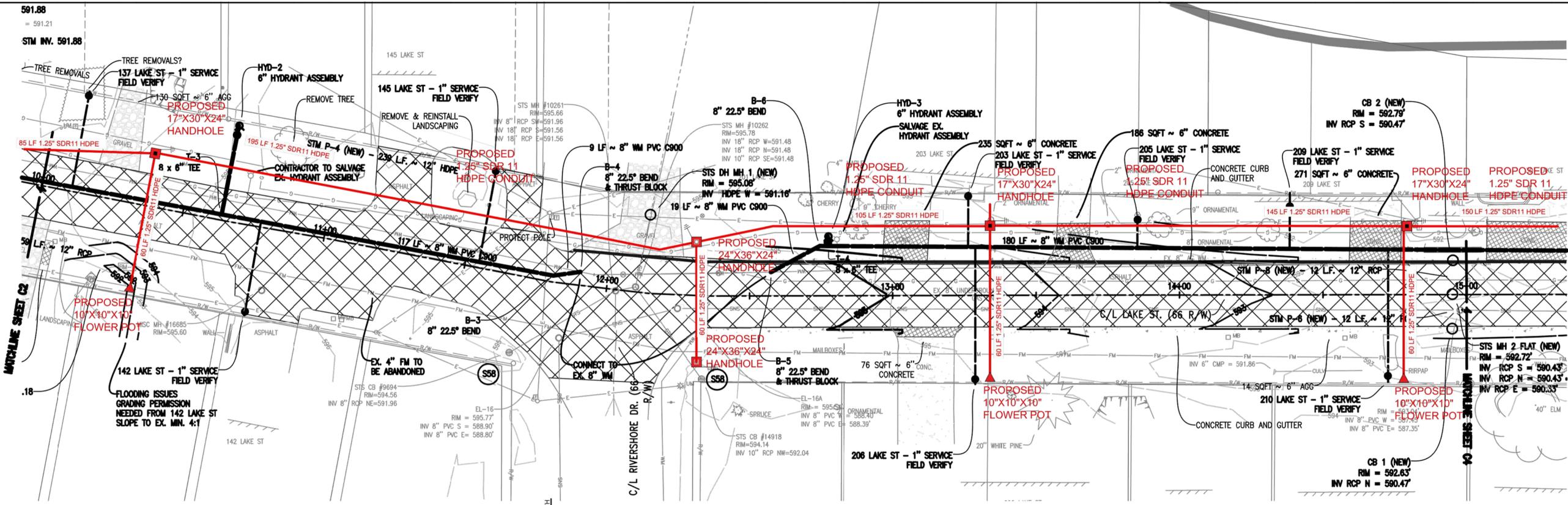


Know what's below.  
Call before you dig.

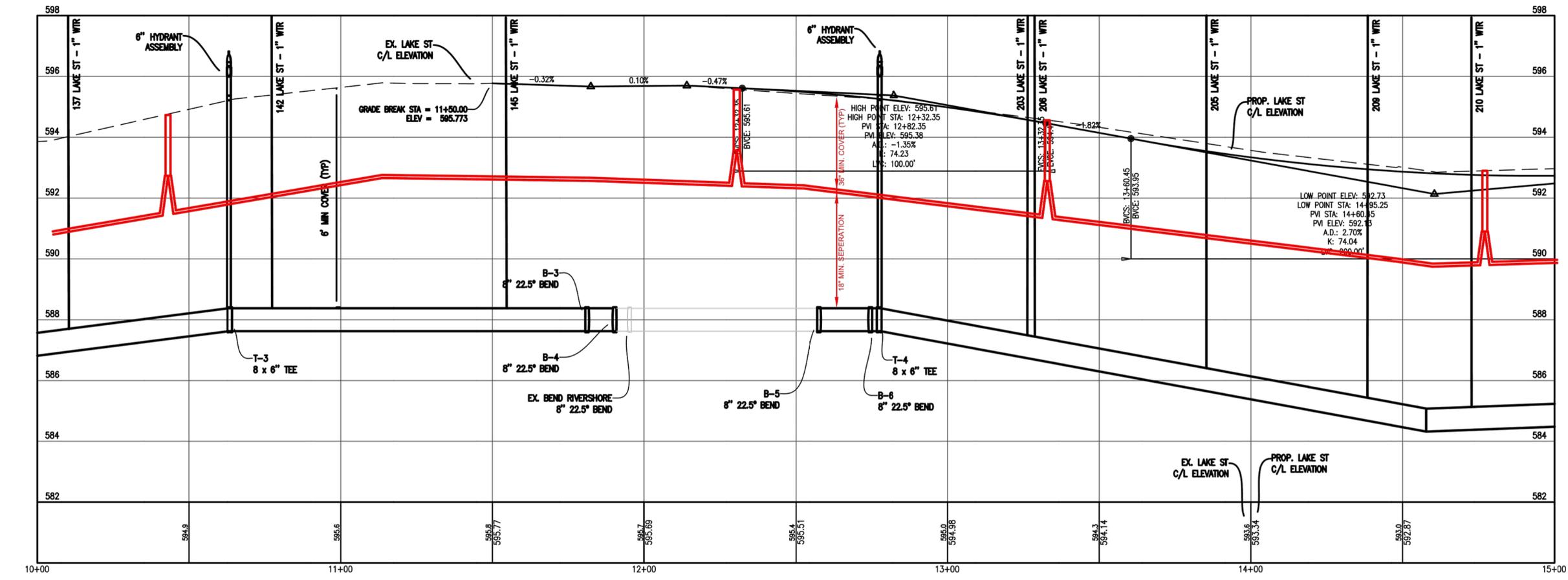
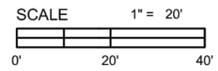
Location:  
SECTION 21 T29N, R9W  
VILLAGE OF ELK RAPIDS  
ANTRIM COUNTY  
MICHIGAN

Project Number:  
240424

Sheet:  
CCC7



LAKE ST. PLAN STA. 10+00 TO 15+00  
SCALE: 1" = 20'



LAKE ST. PROFILE STA. 10+00 TO 15+00  
SCALE HORIZ.: 1" = 20'  
SCALE VERT.: 1" = 2'

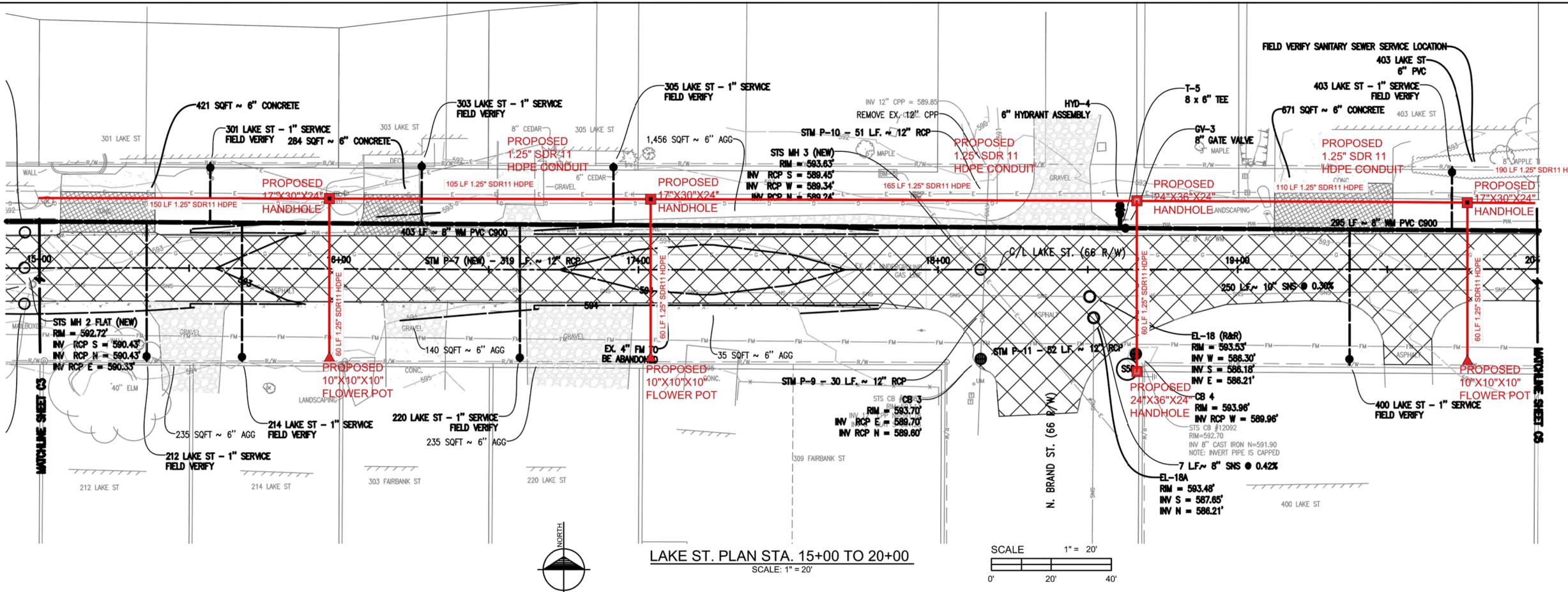


Know what's below.  
Call before you dig.

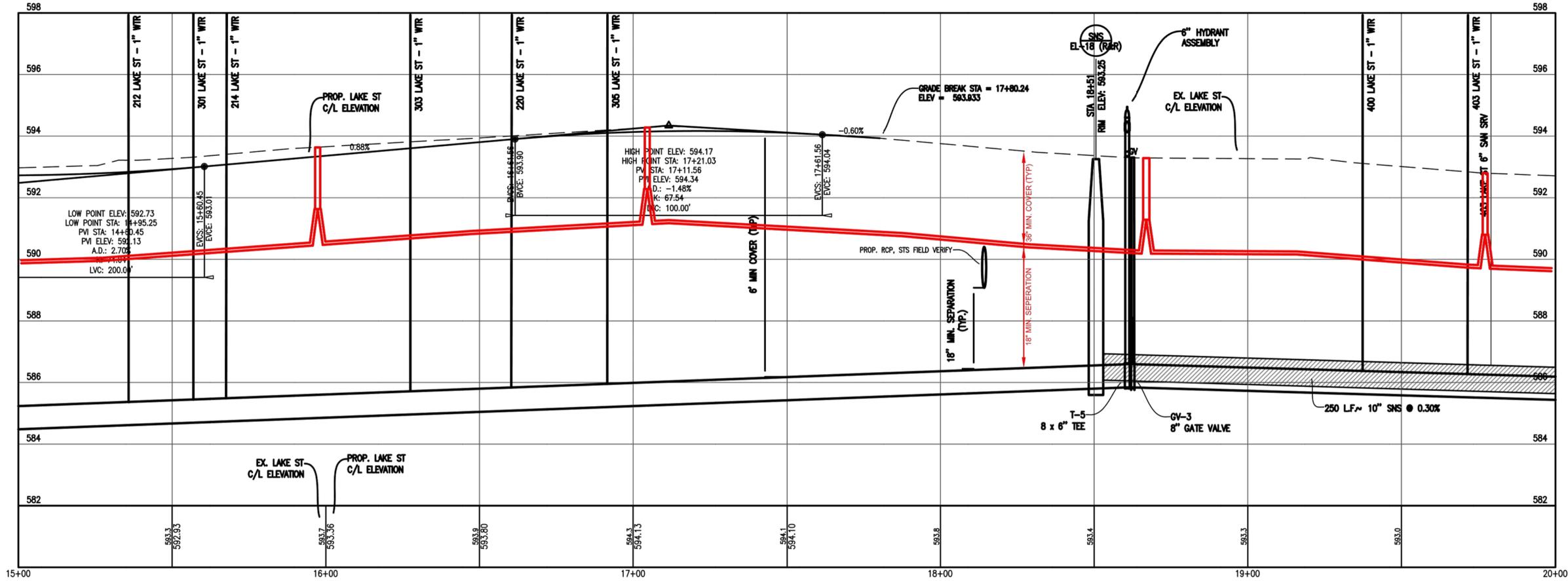
Location:  
SECTION 21 T29N, R9W  
VILLAGE OF ELK RAPIDS  
ANTRIM COUNTY  
MICHIGAN

Project Number:  
240424

Sheet:  
CCC8



LAKE ST. PLAN STA. 15+00 TO 20+00  
SCALE: 1" = 20'



LAKE ST. PROFILE STA. 15+00 TO 20+00  
SCALE HORIZ.: 1" = 20'  
SCALE VERT.: 1" = 2'

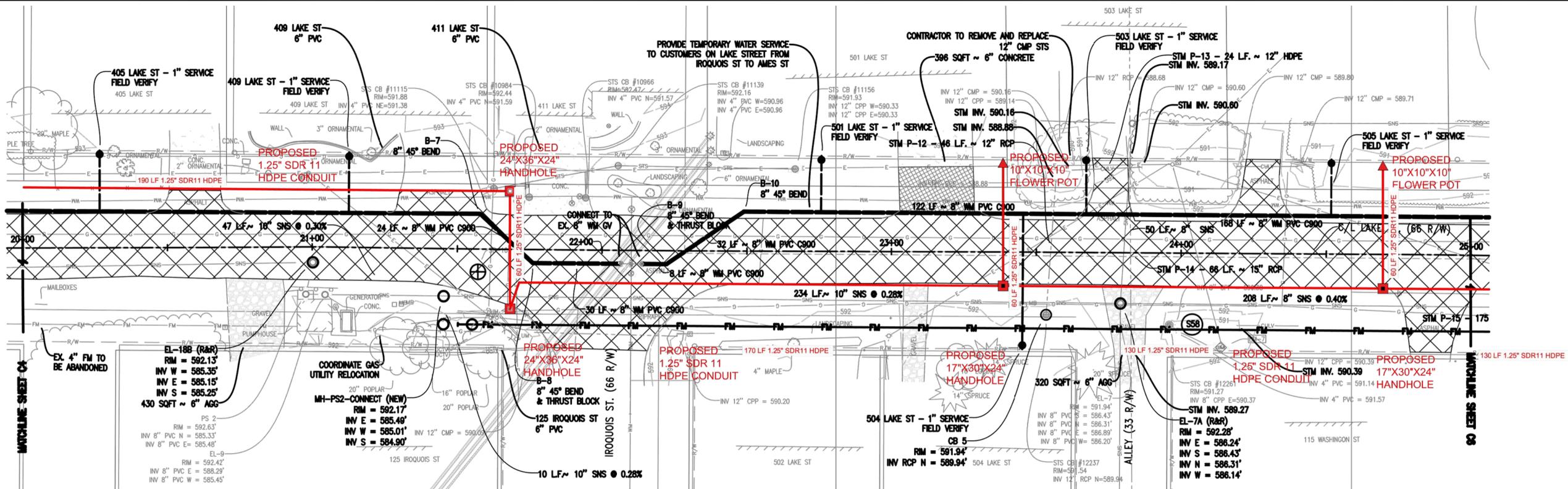


Know what's below.  
Call before you dig.

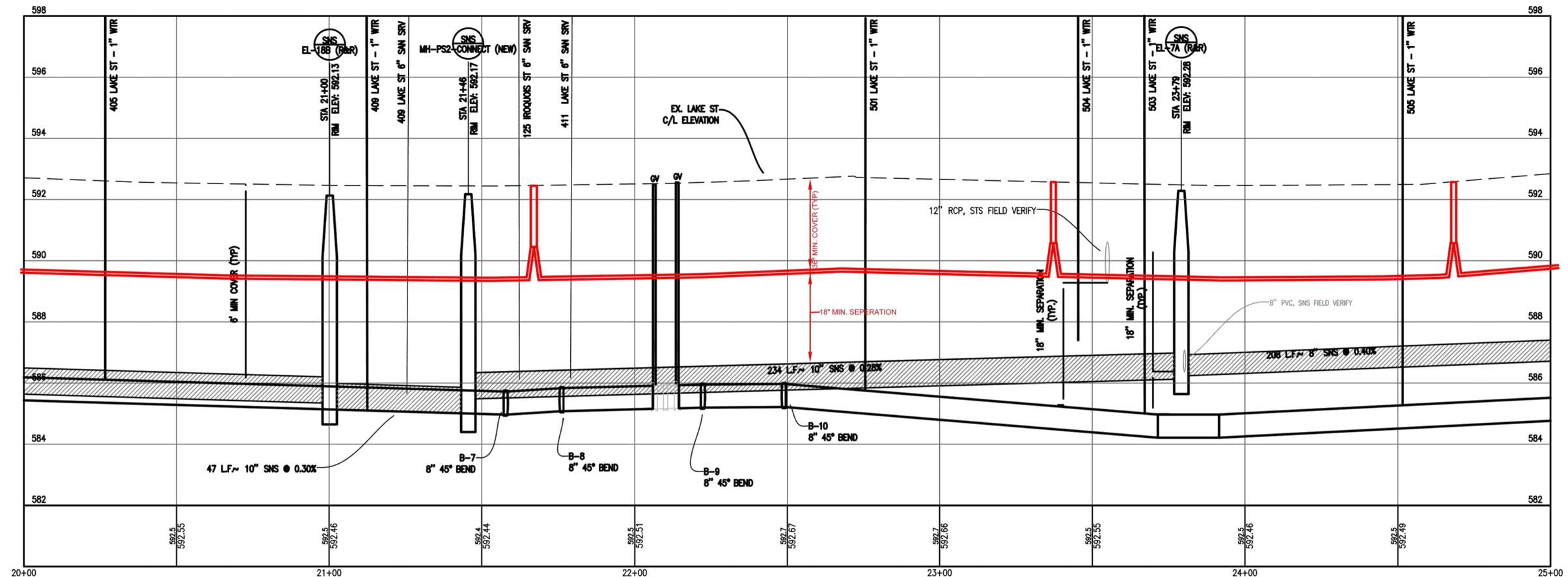
Location: SECTION 21 T29N, R9W  
VILLAGE OF ELK RAPIDS  
ANTRIM COUNTY  
MICHIGAN

Project Number: 240424

Sheet: CCC9



LAKE ST. PLAN STA. 20+00 TO 25+00



LAKE ST. PROFILE STA. 20+00 TO 25+00

SCALE HORIZ.: 1" = 20'  
SCALE VERT.: 1" = 2'



Know what's below.  
Call before you dig.

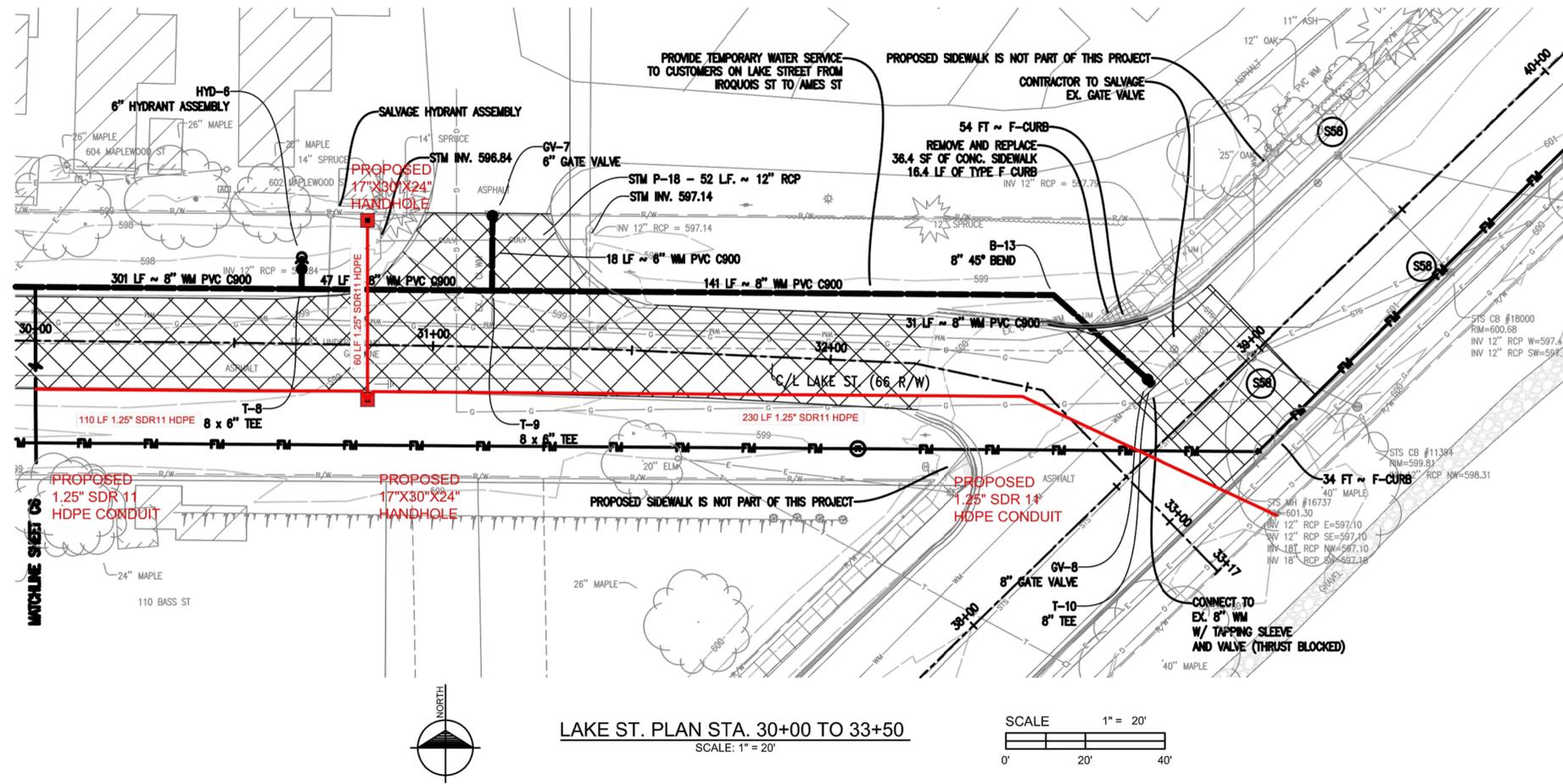
Location:  
SECTION 21 T29N, R9W  
VILLAGE OF ELK RAPIDS  
ANTRIM COUNTY  
MICHIGAN

Project Number:  
240424

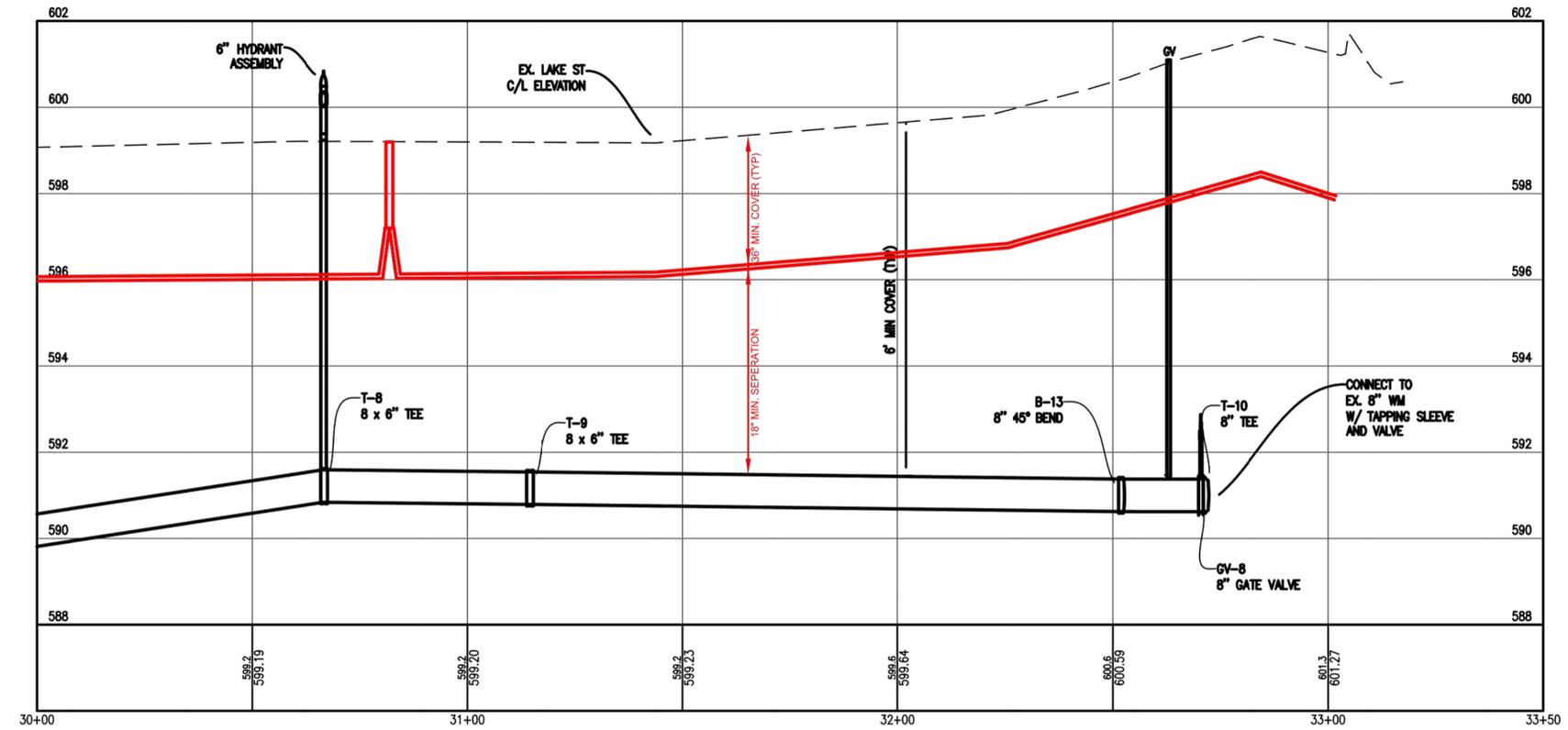
Sheet:

CCC10





LAKE ST. PLAN STA. 30+00 TO 33+50  
SCALE: 1" = 20'



LAKE ST. PROFILE STA. 30+00 TO 33+50  
SCALE HORIZ.: 1" = 20'  
SCALE VERT.: 1" = 2'

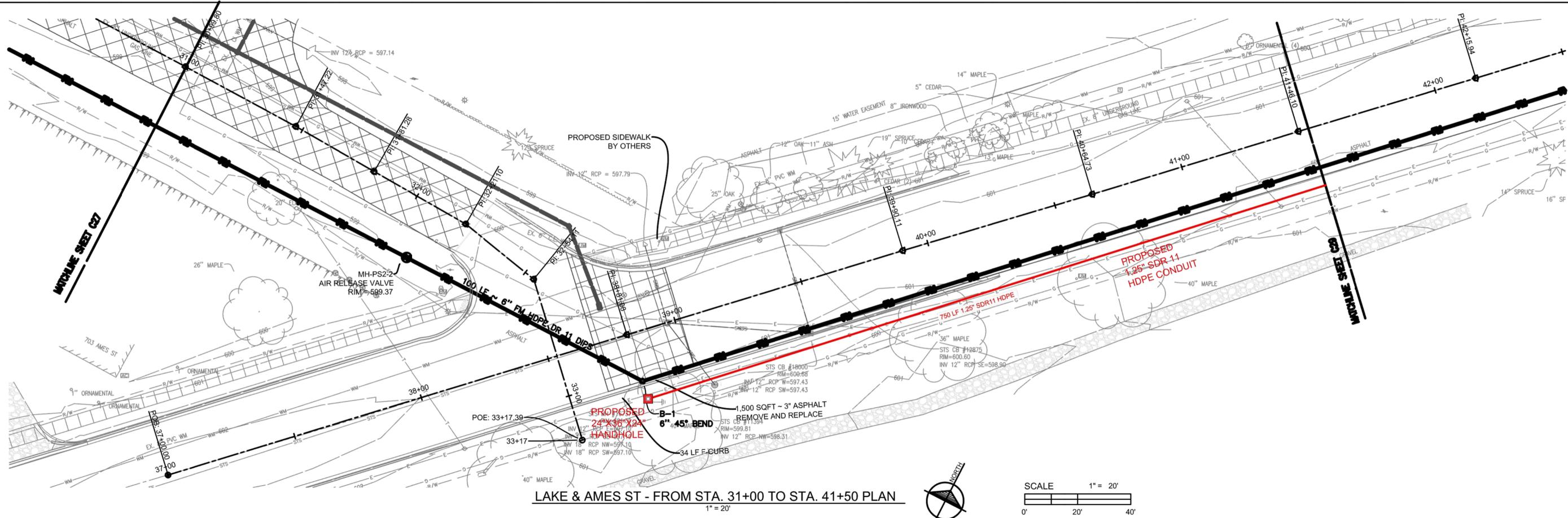


Know what's below.  
Call before you dig.

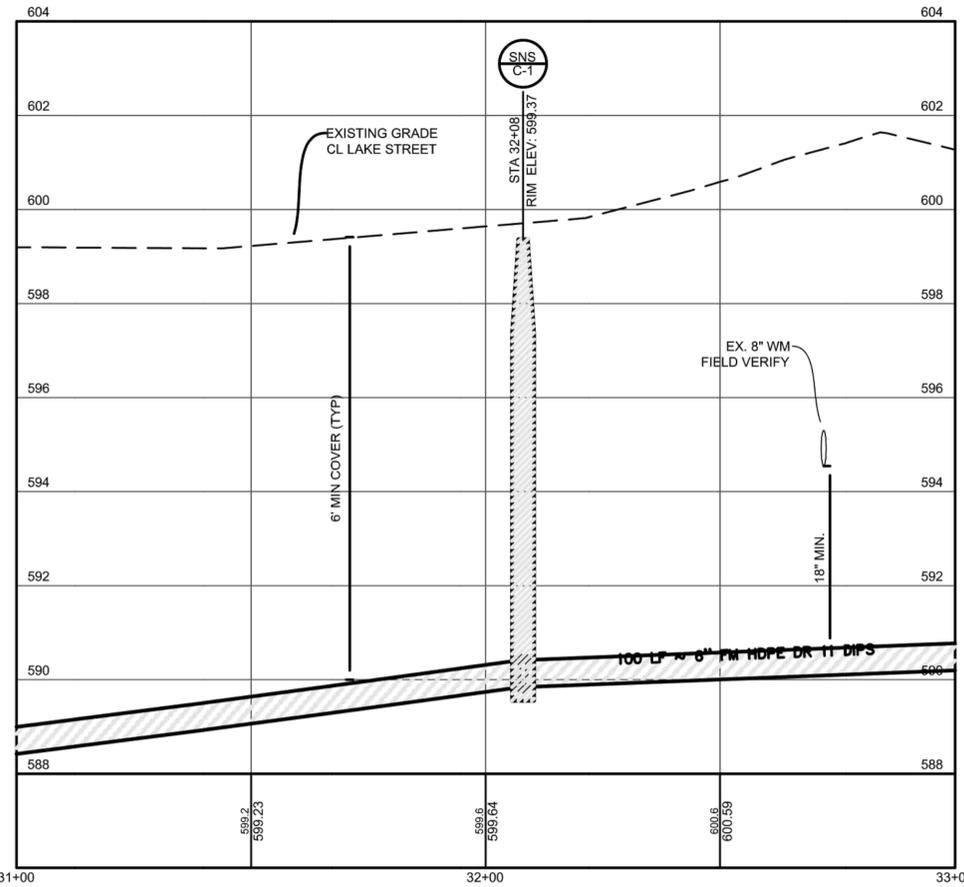
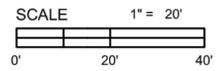
Location:  
SECTION 21 T29N, R9W  
VILLAGE OF ELK RAPIDS  
ANTRIM COUNTY  
MICHIGAN

Project Number:  
240424

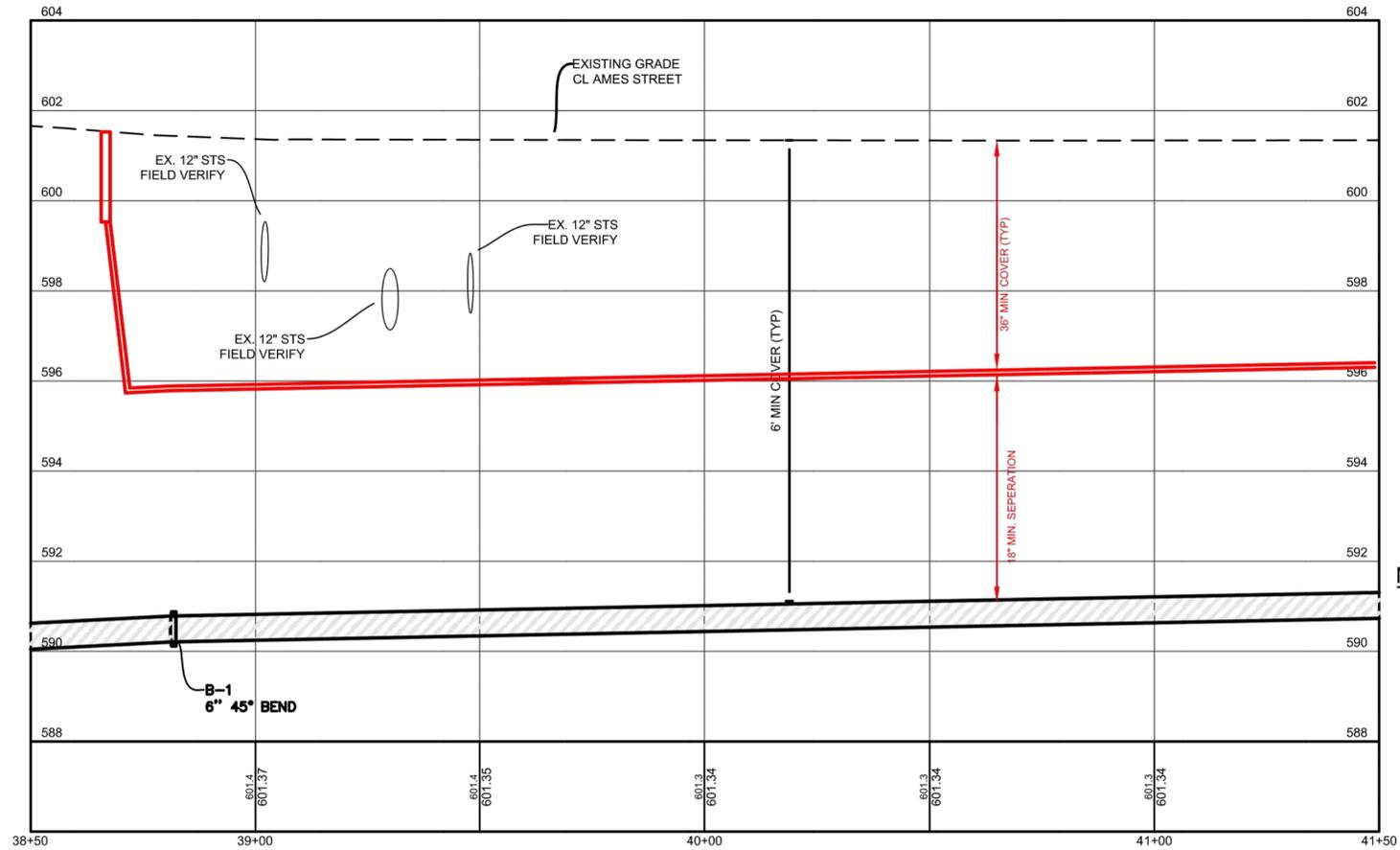
Sheet:  
CCC12



LAKE & AMES ST - FROM STA. 31+00 TO STA. 41+50 PLAN  
1" = 20'



LAKE ST - FROM STA. 31+00 TO STA. 33+00 PROFILE  
HORIZ: 1" = 20'  
VERT: 1" = 2'



AMES ST - FROM STA. 38+50 TO STA. 41+50 PROFILE  
HORIZ: 1" = 20'  
VERT: 1" = 2'

**NOTES**

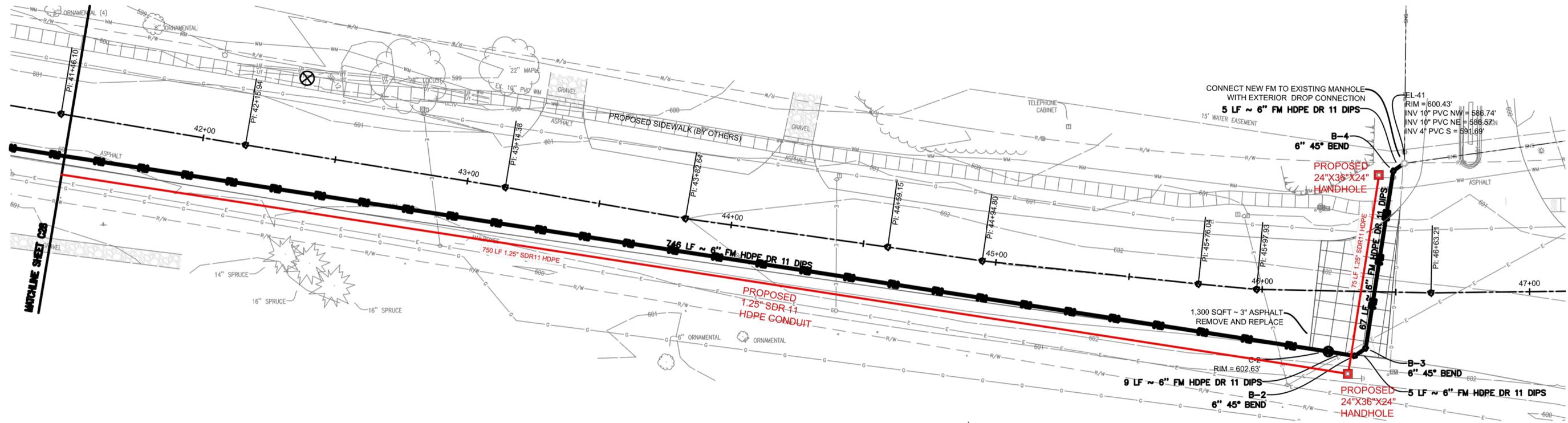
- SEE SHEET G2 GENERAL NOTES, FOR WATER UTILITY NOTES, SOIL EROSION AND SEDIMENTATION CONTROL NOTES AND DRAWING LEGEND.
- SEE SHEET C36 FOR STANDARD DETAILS.



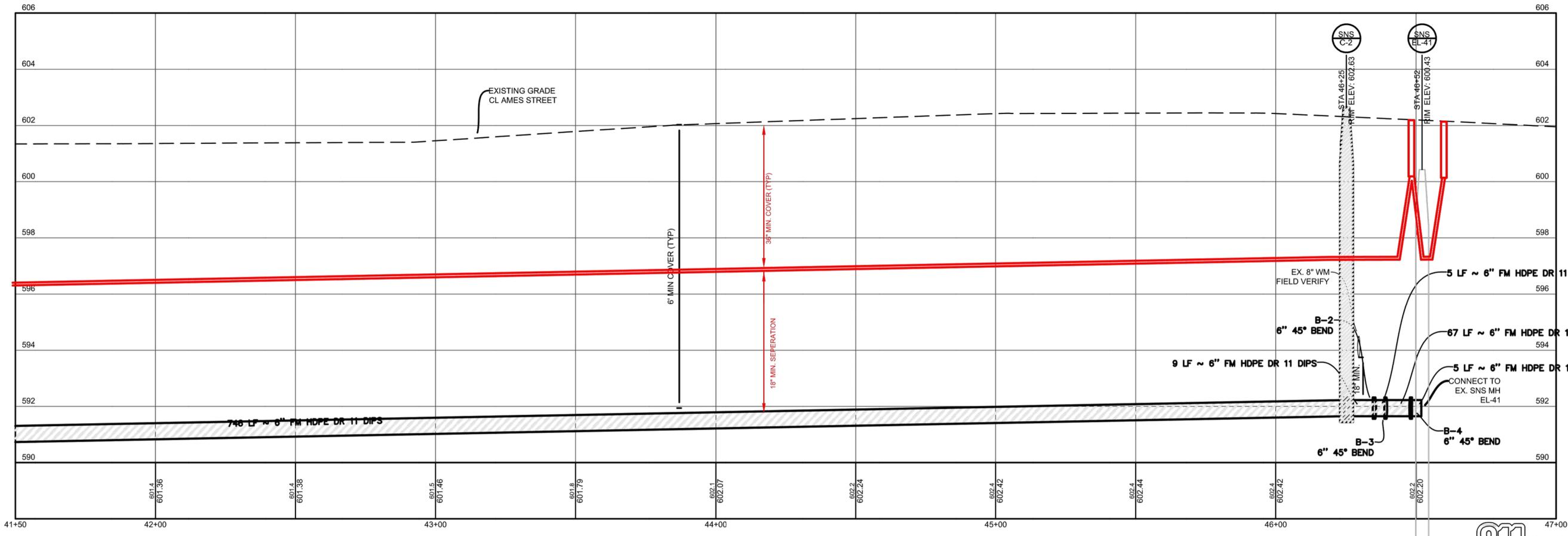
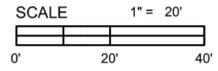
THE LOCATION OF THE EXISTING UTILITIES, AS SHOWN ON THIS PLAN, ARE APPROXIMATE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ACTUAL LOCATION AND DEPTH OF ALL EXISTING UTILITIES. THE OWNER AND THE SURVEYOR SHALL NOT BE RESPONSIBLE FOR ANY OMISSION OR VARIATION FROM THE LOCATION SHOWN. THE CONTRACTOR SHALL NOTIFY "MISS DIG" AT 1 (800) 482-7171 OR 811 THREE (3) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.

Location: SECTION 21 T29N, R9W  
VILLAGE OF ELK RAPIDS  
ANTRIM COUNTY  
MICHIGAN

Project Number: 240424  
Sheet: CCC13



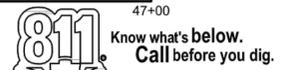
AMES ST - FROM STA. 41+50 TO STA. 47+00 PLAN  
1" = 20'



AMES ST - FROM STA. 41+50 TO STA. 47+00 PROFILE  
HORIZ: 1" = 20'  
VERT: 1" = 2'

NOTES

- SEE SHEET G-2 GENERAL NOTES, FOR WATER UTILITY NOTES, SOIL EROSION AND SEDIMENTATION CONTROL NOTES AND DRAWING LEGEND.
- SEE SHEET C36 FOR STANDARD DETAILS.



THE LOCATION OF THE EXISTING UTILITIES, AS SHOWN ON THIS PLAN, ARE APPROXIMATE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ACTUAL LOCATION AND DEPTH OF ALL EXISTING UTILITIES. THE OWNER AND THE SURVEYOR SHALL NOT BE RESPONSIBLE FOR ANY OMISSION OR VARIATION FROM THE LOCATION SHOWN. THE CONTRACTOR SHALL NOTIFY "MISS DIG" AT 1 (800) 482-7171 OR 811 THREE (3) WORKING DAYS PRIOR TO THE

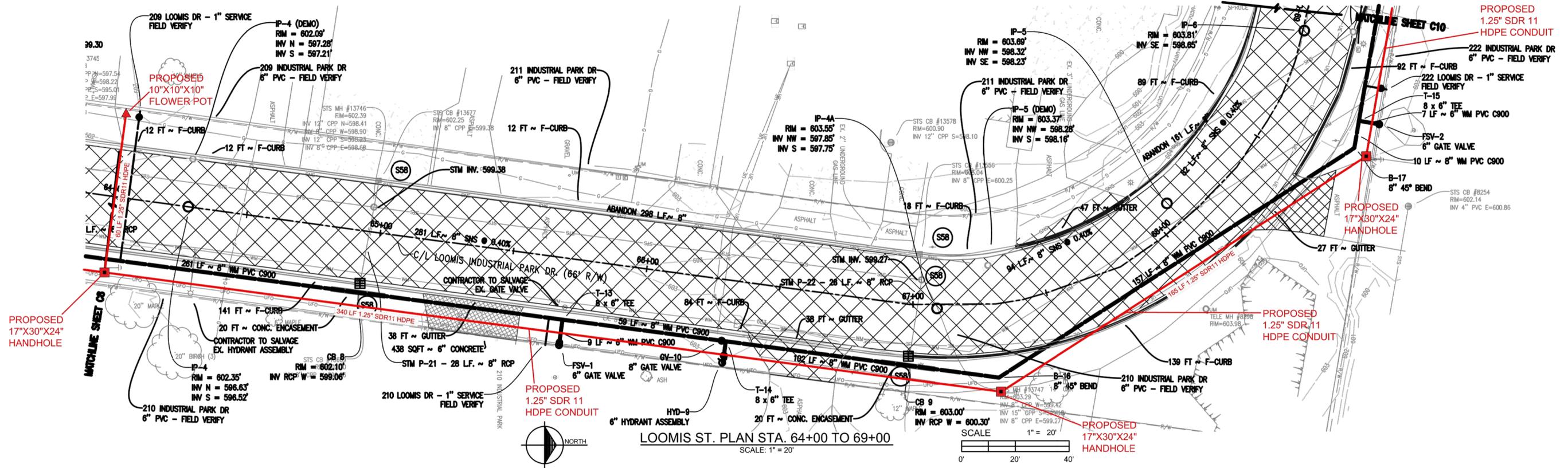
Location: SECTION 21 T29N, R9W VILLAGE OF ELK RAPIDS ANTRIM COUNTY MICHIGAN

Project Number: 240424

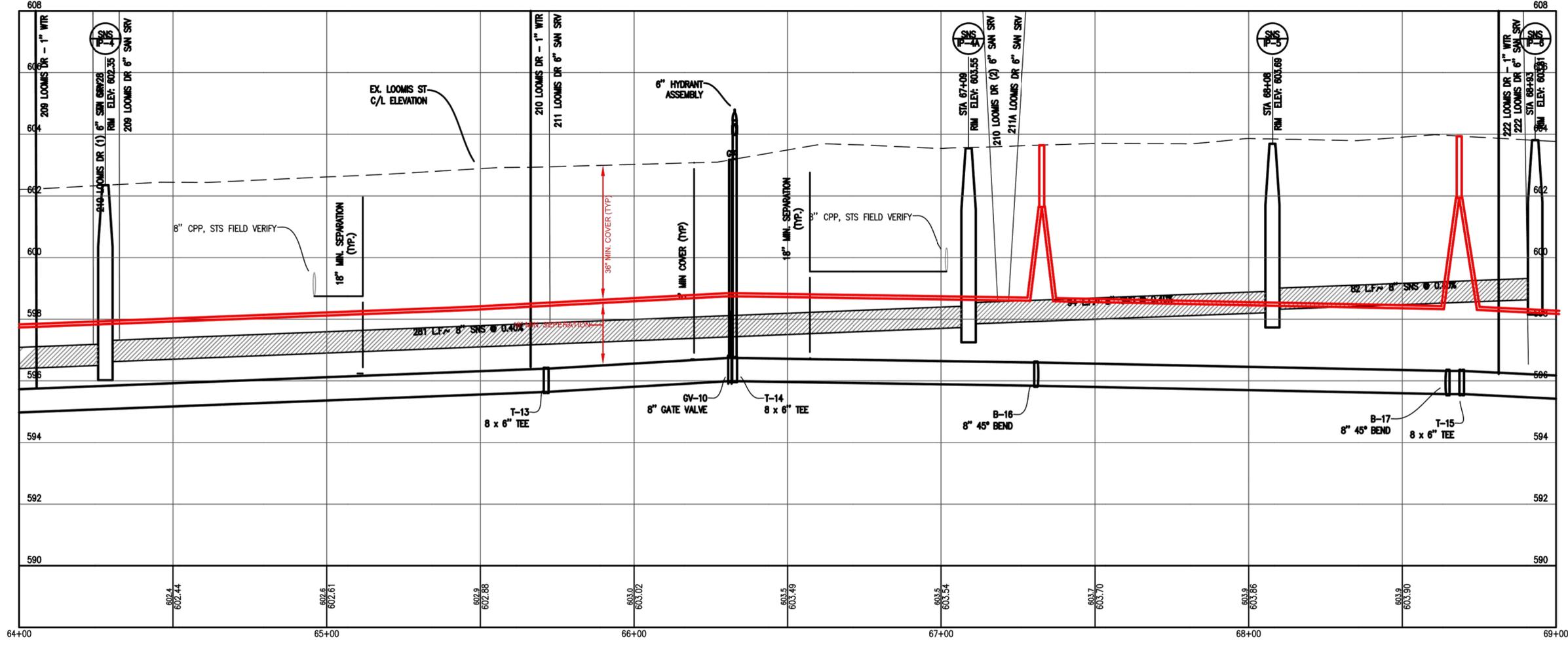
Sheet:

CCC14





LOOMIS ST. PLAN STA. 64+00 TO 69+00  
SCALE: 1" = 20'



LOOMIS ST. PROFILE STA. 64+00 TO 69+00  
SCALE HORIZ.: 1" = 20'  
SCALE VERT.: 1" = 2'

GENERAL PROFILE NOTE:  
CCC CONDUIT PROFILE IS SCHEMATIC. DEPTH SHOWN IS  
TYPICAL AND SHALL BE FIELD VERIFIED PRIOR TO INSTALLATION

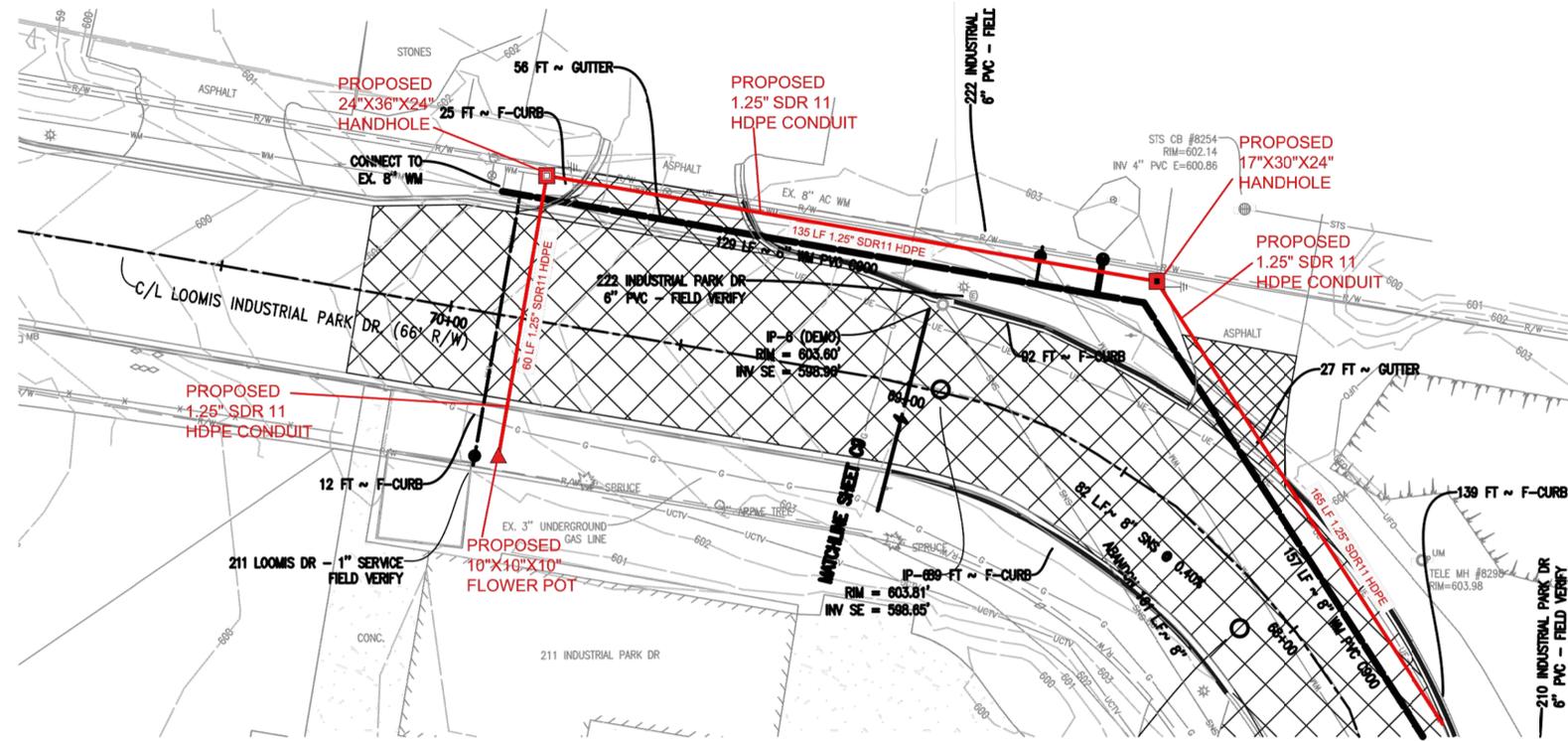


Know what's below.  
Call before you dig.

Location: SECTION 21 T29N, R9W  
VILLAGE OF ELK RAPIDS  
ANTRIM COUNTY  
MICHIGAN

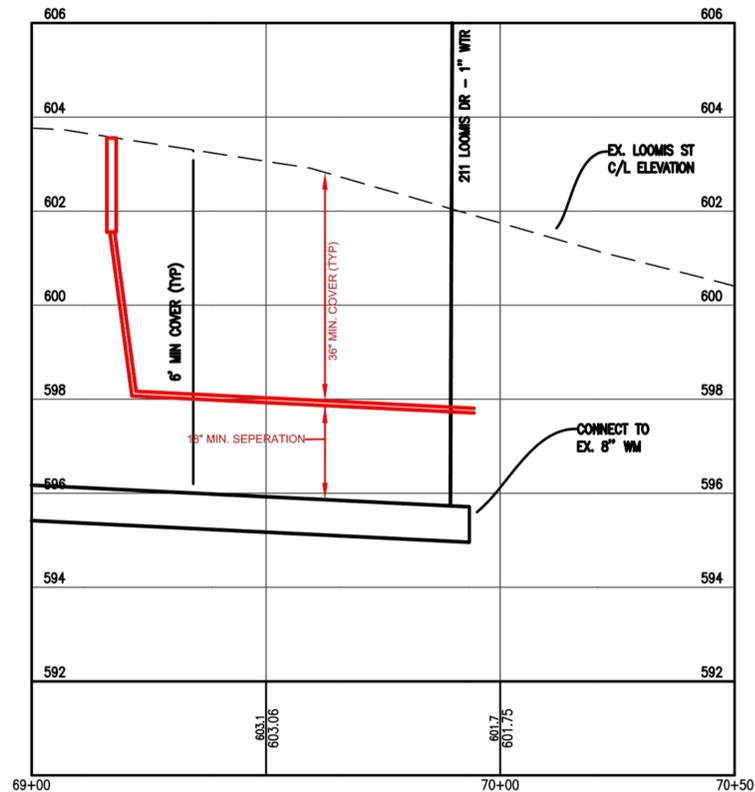
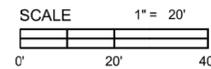
Project Number: 240424

Sheet: CCC16



LOOMIS ST. PLAN STA. 69+00 TO 70+50

SCALE: 1" = 20'



LOOMIS ST. PROFILE STA. 69+00 TO 70+50

SCALE HORIZ.: 1" = 20'  
SCALE VERT.: 1" = 2'

GENERAL PROFILE NOTE:  
CCC CONDUIT PROFILE IS SCHEMATIC. DEPTH SHOWN IS  
TYPICAL AND SHALL BE FIELD VERIFIED PRIOR TO INSTALLATION



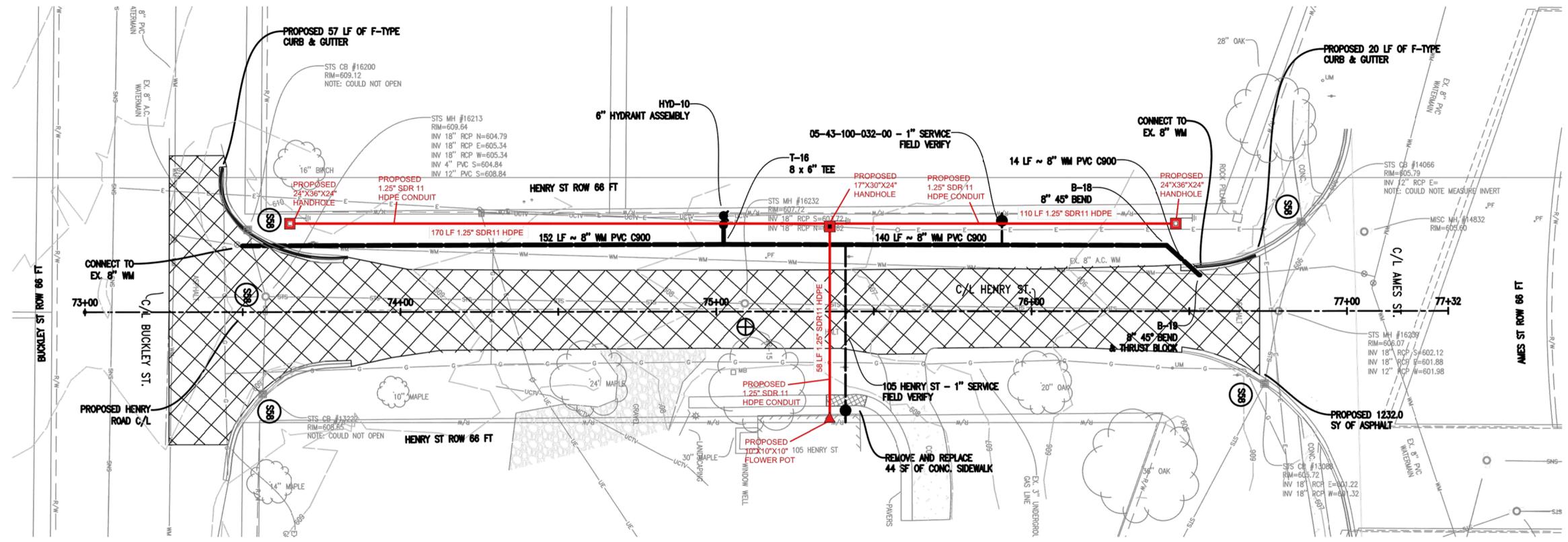
Know what's below.  
Call before you dig.

Location:  
SECTION 21 T29N, R9W  
VILLAGE OF ELK RAPIDS  
ANTRIM COUNTY  
MICHIGAN

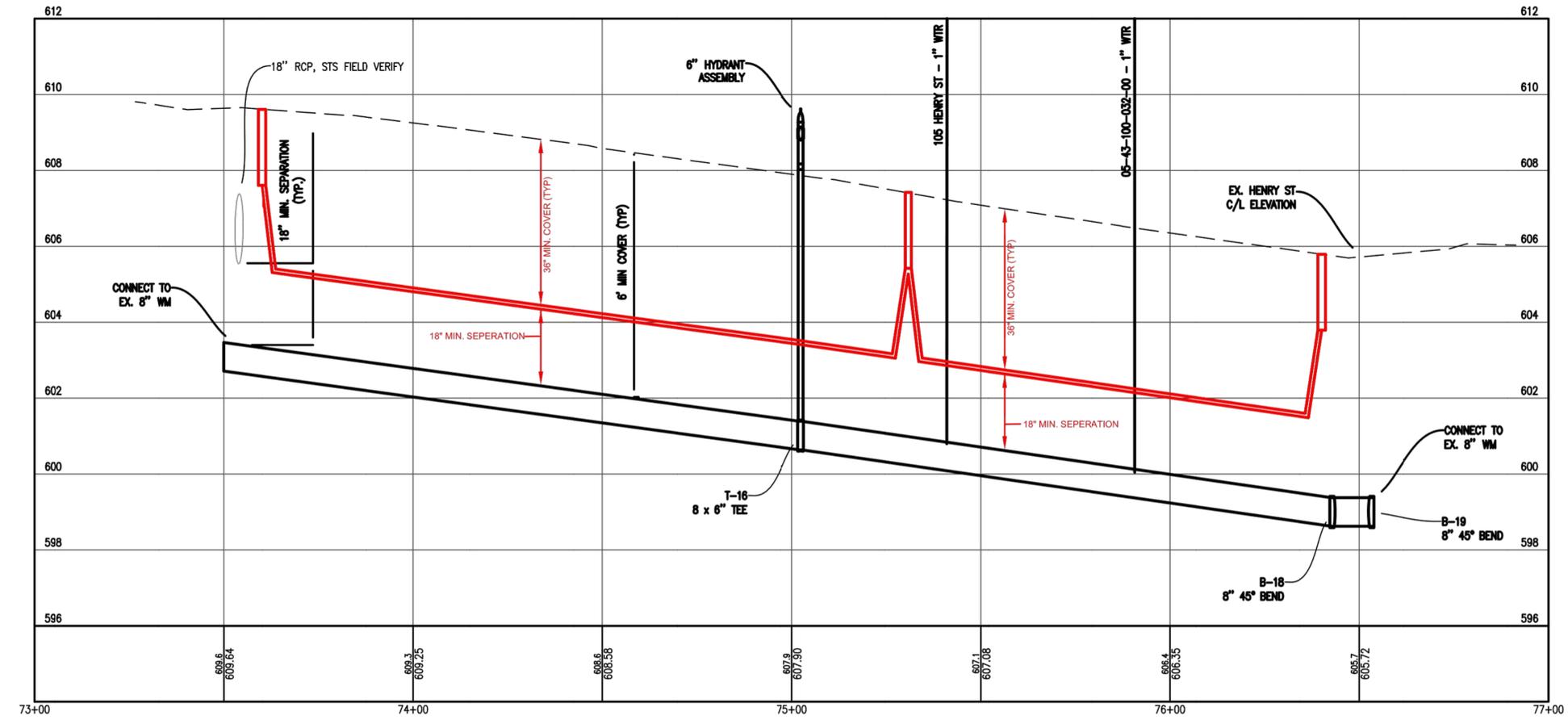
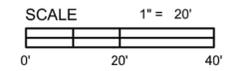
Project Number:  
240424

Sheet:

CCC17



HENRY ST. PLAN STA. 73+00 TO 77+00  
SCALE: 1" = 20'



HENRY ST. PROFILE STA. 73+00 TO 77+00  
SCALE HORIZ.: 1" = 20'  
SCALE VERT.: 1" = 2'

GENERAL PROFILE NOTE:  
CCC CONDUIT PROFILE IS SCHEMATIC. DEPTH SHOWN IS  
TYPICAL AND SHALL BE FIELD VERIFIED PRIOR TO INSTALLATION



Know what's below.  
Call before you dig.

Location:  
SECTION 21 T29N, R9W  
VILLAGE OF ELK RAPIDS  
ANTRIM COUNTY  
MICHIGAN

Project Number:

Sheet:

CCC18