

CITY OF FENTON GENESEE COUNTY, MICHIGAN 2026 LOCAL ROAD PROGRAM

CITY OF FENTON CITY COUNCIL

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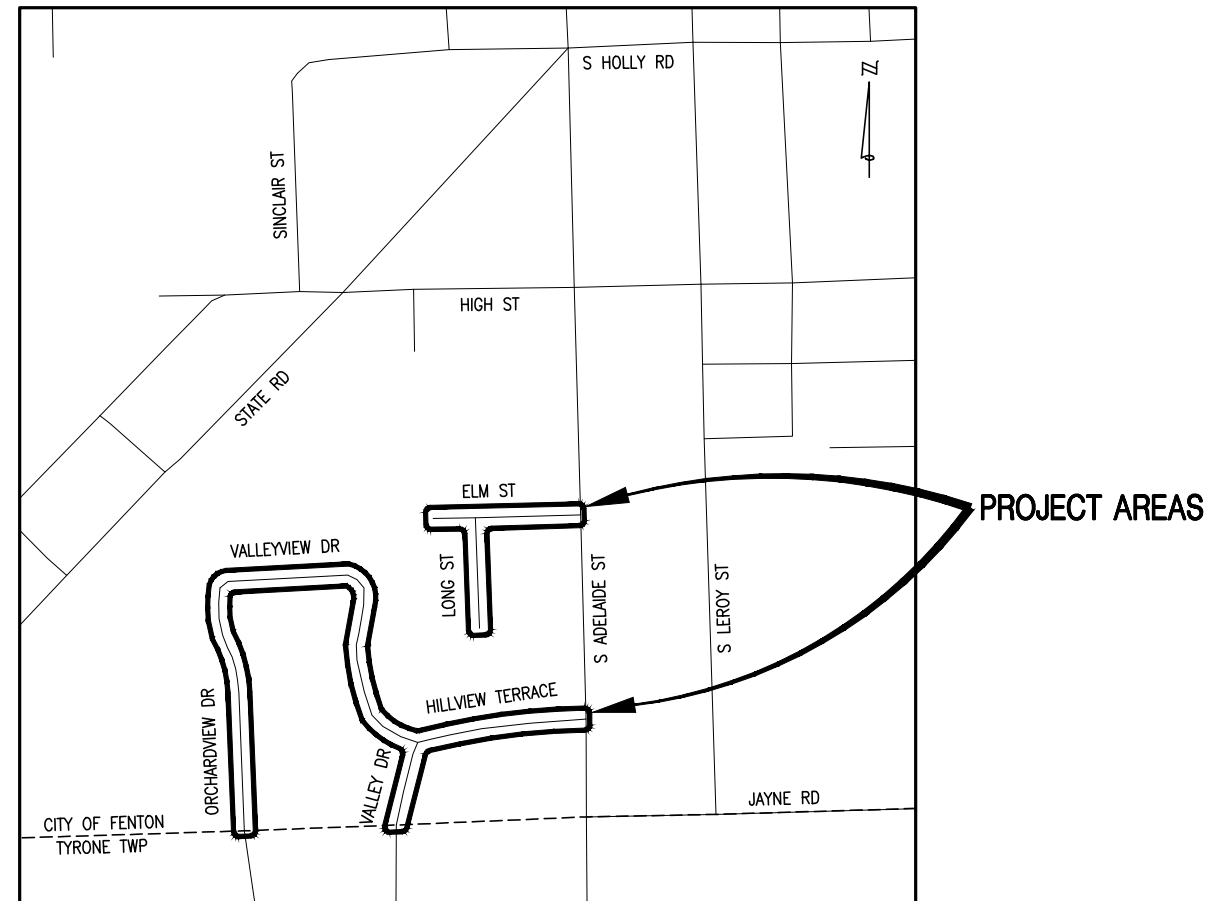
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*MDOT SPECIAL DETAIL



LOCATION MAP
N.T.S.

GENERAL PROVISIONS

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE PROPOSAL AND ACCOMPANYING SPECIFICATIONS FOR THIS PROJECT INCLUDING THE 2020 MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, 2025 MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND THE MICHIGAN DEPARTMENT OF TRANSPORTATION LOCAL AGENCY PROGRAMS GUIDELINES FOR GEOMETRICS DATED 7-24-2017.

THE LOCATION OF ALL PUBLIC UTILITIES SHOWN ON THESE PLANS IS TAKEN FROM THE BEST AVAILABLE DATA. THE CITY OF FENTON WILL NOT BE RESPONSIBLE FOR ANY OMISSION OR VARIATION FROM THE LOCATIONS SHOWN. PURSUANT TO ACTS 173 & 174 OF THE P.A. OF 2013, AS A CONDITION OF THIS CONTRACT, NOTICE SHALL BE GIVEN TO MISS DIG PRIOR TO UNDERGROUND WORK TO BE PERFORMED IN ACCORDANCE WITH THIS CONTRACT, PHONE (800) 482-7171 (OR 811). UTILITY SERVICE CONNECTIONS ARE NOT SHOWN ON THE PLANS AND ARE NOT THE RESPONSIBILITY OF THE CITY OF FENTON.

THE ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON NAVD 1988 VERTICAL DATUM.

APPLICATION DATE	PERMITS	APPROVAL DATE
02/09/2026	EGLE WATER MAIN (ACT 399)	02/27/2026
03/25/2026	GCDC-WWS SESC	

CONTRACT FOR:
2,911 FEET OF HMA ROAD RECONSTRUCTION, 910 FEET OF HMA CRUSH AND SHAPE,
1,000 FEET OF CURB AND GUTTER REPAIRS, 2,105 FEET OF 8" DI WATER MAIN
REPLACEMENT.



2365 PONTIAC ROAD
SUITE 201
AUBURN HILLS, MI 48326
T: 248.751.3100

PREPARED UNDER THE SUPERVISION OF:



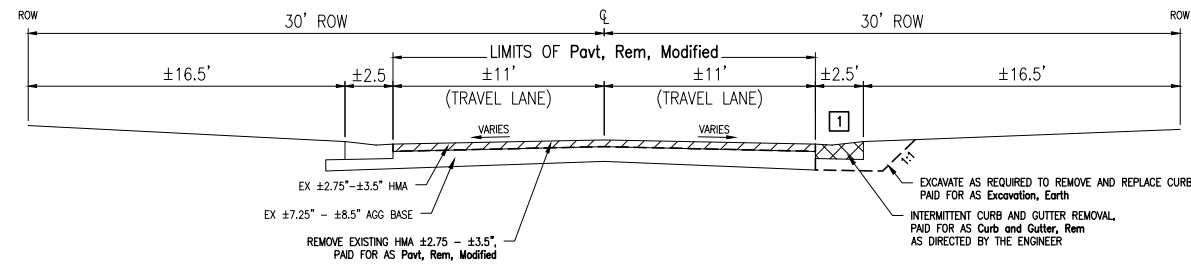
ALEX PARENT, P.E.

6201068837
Registration No.

03/25/2026
Date

REVISIONS

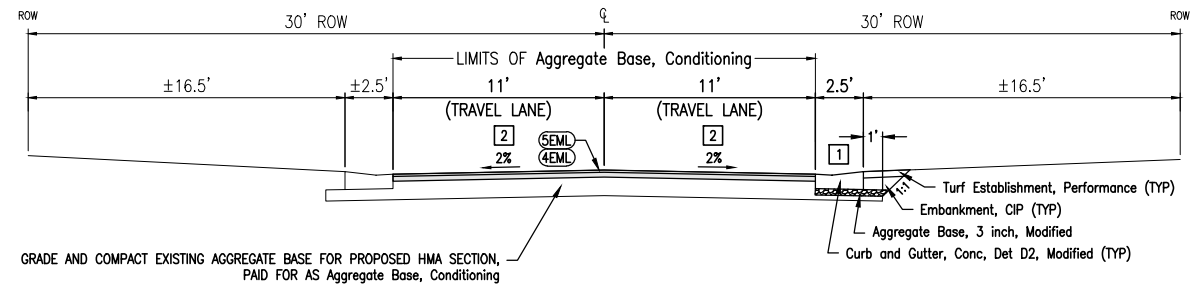
PROJECT NO.	SHEET NO.
0077-25-0040	1 OF 39



EXISTING TYPICAL CROSS SECTION

APPLIES TO:
ORCHARDVIEW DR
VALLEYVIEW DR
HILLVIEW TERRACE
STA 1+54 TO STA 17+70
INLAY

- 1 CURB AND GUTTER REMOVAL, REPLACEMENT, AND CRACK SEALING SHALL BE AS DIRECTED BY THE ENGINEER IN THE FIELD. ESTIMATED QUANTITY HAS BEEN PROVIDED ON THE PLAN SHEETS.
- 2 THE ROAD WILL SHEET FLOW FROM RT EOM TO LT EOM AT THE FOLLOWING STATIONS:
STA 6+65 TO STA 7+20
STA 14+75 TO STA 15+20



PROPOSED TYPICAL CROSS SECTION

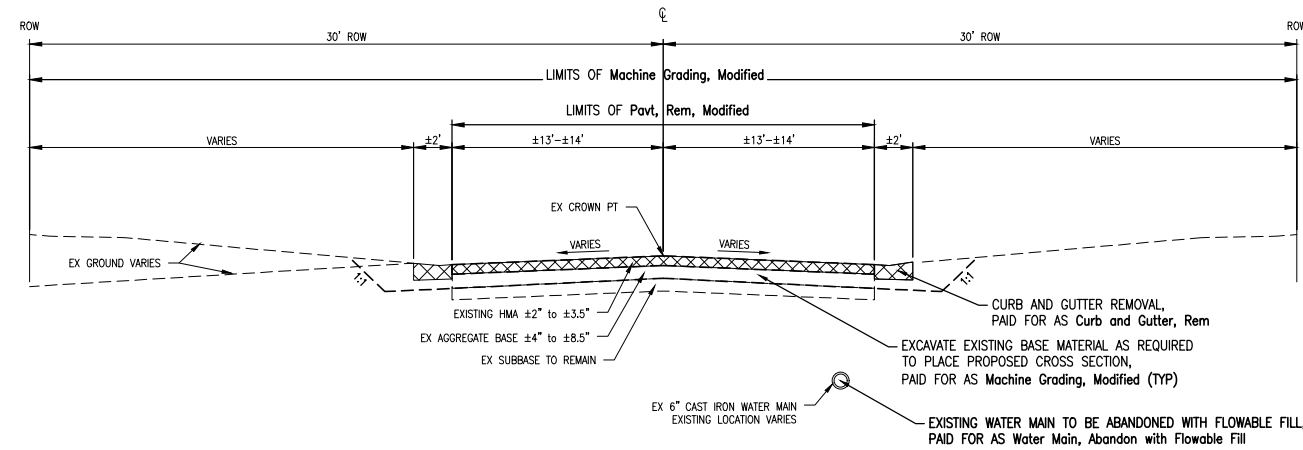
APPLIES TO:
ORCHARDVIEW DR
VALLEYVIEW DR
HILLVIEW TERRACE
STA 1+54 TO STA 17+70
INLAY

HMA APPLICATION ESTIMATE				
IDENT NO.	ITEM	RATE (LBS/SYD)	PERFORMANCE GRADE	REMARKS
5EML	HMA, 5EML	165	64-22	1.5" WEARING COURSE (AWI -260 MIN.)
4EML	HMA, 4EML	265	64-22	2.5" LEVELING COURSE

*A UNIFORM RATE OF 0.05 GAL/SYD SHALL BE USED BETWEEN THE PROPOSED HMA LIFTS.
**MAINLINE HMA QUANTITIES INCLUDE INTERSECTION WORK/SIDE STREET APPROACHES AND WILL NOT BE PAID SEPARATELY.
***HMA MIXES SHALL MEET TIER 1 OR TIER 2 RAP REQUIREMENTS PER 205P-501F-01.

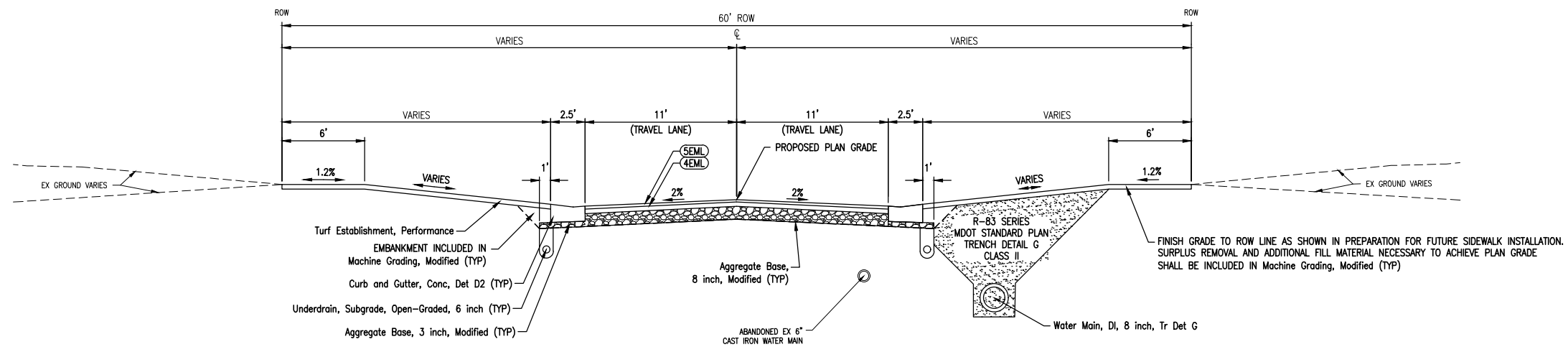
ISSUED FOR: BIDDING
REVISION: DESCRIPTION
DATE: 03/25/2026

PROJECT NUMBER: PM-AP-001725-0040
CITY OF FENTON
2026 LOCAL ROAD PROGRAM
TYPICAL CROSS SECTION SHEET



EXISTING TYPICAL CROSS SECTION

APPLIES TO:
HILLVIEW TERRACE: STA 17+70 TO STA 27+44
VALLEY DR: STA 30+93 TO STA 34+00
RECON



PROPOSED TYPICAL CROSS SECTION

APPLIES TO:
HILLVIEW TERRACE: STA 17+70 TO STA 27+44
VALLEY DR: STA 30+93 TO STA 34+00
RECON

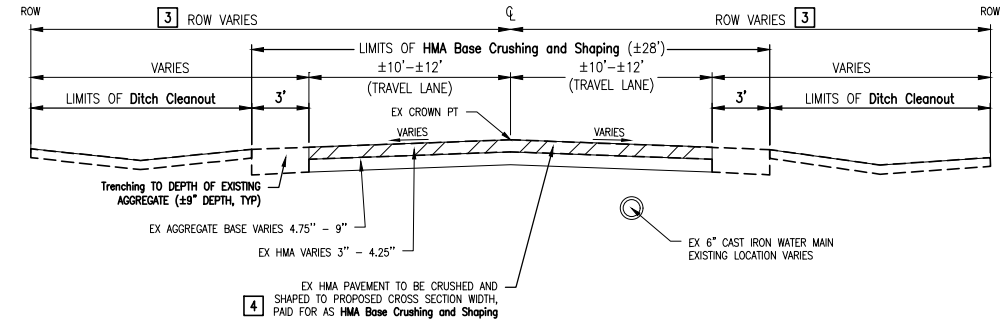
HMA APPLICATION ESTIMATE

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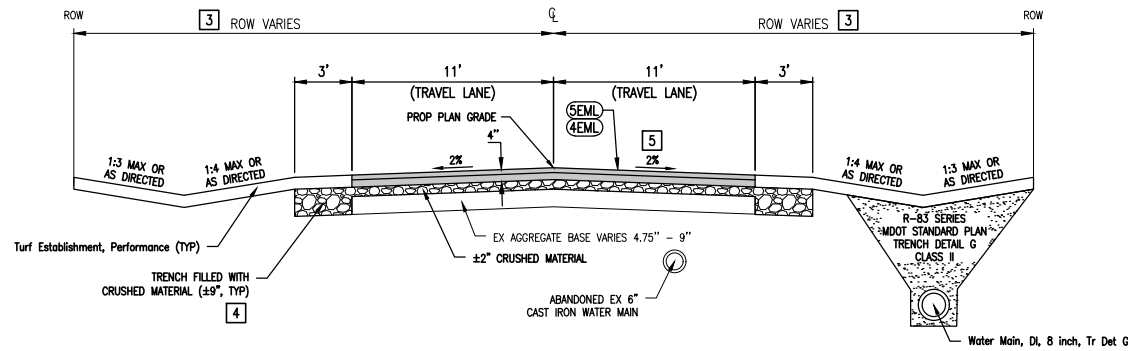
PROJECT NUMBER: PM AP
007725-0040
CITY OF FENTON
2026 LOCAL ROAD PROGRAM
TYPICAL CROSS SECTION SHEET



EXISTING TYPICAL CROSS SECTION

APPLIES TO:
LONG ST: STA 40+58 TO STA 44+50
ELM ST: STA 50+21 TO STA 55+34 (NO LT DITCH)
CRUSH AND SHAPE

- 3 - ELM ST RIGHT-OF-WAY IS 25' FROM CL. TOTAL 50' WIDE.
- LONG ST RIGHT-OF-WAY IS 30' FROM CL. TOTAL 60' WIDE.
- LONG ST CUL-DE-SAC RIGHT-OF-WAY IS A CIRCULAR RADIUS OF 50' CENTERED AT STA 40+85.29.
- 4 CRUSHED MATERIAL MAY BE USED UNDER DRIVEWAYS AND WITHIN SHOULDER TRENCH AS AGGREGATE BASE AS DIRECTED BY THE ENGINEER.
- 5 CROSS SLOPE OF THE RIGHT LANE OF ELM ST WILL TRANSITION FROM 2% AWAY FROM CROWN AT STA 54+00 TO 2% TOWARD CROWN BY STATION 55+03.



PROPOSED TYPICAL CROSS SECTION

APPLIES TO:
LONG ST: STA 40+58 TO STA 44+50
ELM ST: STA 50+21 TO STA 55+34 (NO LT DITCH)
CRUSH AND SHAPE

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4EML	HMA, 4EML	265	64-22	2.5" LEVELING COURSE
HA	HMA APPROACH	440	VARIES	MATCH MAINLINE PAVING

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***HMA MIXES SHALL MEET TIER 1 OR TIER 2 RAP REQUIREMENTS PER 205P-501F-01.

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CITY OF FENTON
2026 LOCAL ROAD PROGRAM
TYPICAL CROSS SECTION SHEET

WATER & SEWER UTILITY SYMBOLS

- EXISTING**
- _{ST} STORM MANHOLE
 - SQUARE CATCH BASIN
 - ⊕ ROUND CATCH BASIN
 - == CULVERT
 - ⊕ CULVERT W/O END SECTION
 -) CULVERT W/END SECTION
 - _S SANITARY MANHOLE
 - ⊙ CLEAN OUT
 - ⊗_{GW} GATE VALVE & WELL
 - GATE VALVE & BOX
 - ⊓ WATER STOP BOX
 - ⊕ FIRE HYDRANT
 - ⊓_{MP} METER PIT
 - ⊕ WATER METER
 - ⊕_{SH} SPRINKLER HEAD
 - ⊙ IRRIGATION VALVE
 - ▷ REDUCER
- PROPOSED**
- STORM MANHOLE
 - INLET/CATCH BASIN
 - ⊕ CULVERT W/O END SECTION
 -) CULVERT END SECTION
 - SANITARY MANHOLE
 - ⊗_{GW} GATE VALVE & WELL
 - ⊗_{GB} GATE VALVE & BOX
 - ⊗_{TSV&W} TAPPING SLEEVE VALVE & WELL
 - ⊗_{TSV&B} TAPPING SLEEVE VALVE & BOX
 - ⊕ FIRE HYDRANT

MISCELLANEOUS UTILITY SYMBOLS

- EXISTING**
- ⋄ GUY WIRE
 - ⊙_{GP} GUY POLE
 - ⊙_U UTILITY POLE
 - ⊕_U UTILITY POLE W/LIGHT
 - ⊕ LIGHT/DECOR LAMP POLE
 - ⊕ FLOOD LIGHT
 - ⊙ GAS VALVE
 - ⊕ GAS VENT
 - ⊓ GAS METER
 - ◇ GAS RISER
 - ⊓ GAS CAP
 - ⊕ TRAFFIC SIGNAL
 - ⊕ PEDESTRIAN RISER
 - ⊓ TRANSFORMER PAD
 - _U PRIVATE UTILITY MANHOLE
 - ⊗_R RAILROAD CROSSING
 - ⊓_E ELECTRIC METER
 - ⊓_{PB} PHONE BOOTH
 - ⊓_{TS} TRAFFIC SIGNAL CONTROLLER
 - ⊓ HAND HOLE
 - ◇_E ELECTRIC RISER
 - ◇ TELEPHONE RISER
 - ◇_C CABLE TV RISER
 - ⊕_W MONITORING WELL
 - UNDERGROUND MARKER

MISCELLANEOUS SYMBOLS

- EXISTING**
- ⊕ RIPRAP
 - ⊕ SIGN
 - FLOW DIRECTION
 - ⊕ STUMP
 - ⊕ WETLAND
 - ⊕ CONIFEROUS TREE } CL 1 1" TO 5"
 - ⊕ DECIDUOUS TREE } CL 2 6" TO 17"
 - ⊕ CONIFEROUS SHRUB } CL 3 18" TO 35"
 - ⊕ DECIDUOUS SHRUB } CL 4 36" AND UP
 - ⊕_{SB#} SOIL BORING
 - ⊕ SECTION CORNER
 - MONUMENT
 - IRON ROD/PIPE
 - ⊕_{PK} PK NAIL
 - _{BM#} BENCHMARK
 - ⊕_{TP#} TRAVERSE POINT
 - ⊓ MAIL/NEWSPAPER BOX
 - _{FP} FLAG POLE
 - POST
- HAZARDOUS OR FLAMMABLE MATERIAL** USED WITH UNDERGROUND GAS & ELECTRICAL LINES
- CAUTION - CRITICAL UNDERGROUND UTILITY** USED WITH TELEPHONE & FIBER OPTIC LINES
- PROPOSED**
- ⊕ RIPRAP
 - ⊕, ⊕, ⊕, ⊕, ⊕, ⊕ SIGN
 - FLOW DIRECTION
 - ⊕_{WM} STRUCTURE NUMBER WM
 - ⊕_{SAN} SAN
 - ⊕_{STM} STM
 - ⊕ ADA SIDEWALK RAMP

UTILITY PATTERN

- EXISTING**
- ⋯ ELEC ELECTRICAL *
 - ⋯ 6" (COMPANY) GAS GAS\OIL
 - ⋯ (COMPANY) CABLE/TEL CABLE/TELEPHONE *
 - ⋯ FIBER OPTIC FIBER OPTIC *
 - ⋯ 12" WM WATER
 - ⋯ 12" SAN SANITARY
 - ⋯ 12" STM STORM
- PROPOSED**
- ⋯ 12" → STORM/SANITARY/WATER
 - ⋯ 12" PRIMARY UTILITY WILL HAVE A CONTINUOUS LINESYLE, WITH THE SECONDARY UTILITY MATCHING ITS RESPECTIVE EXISTING UTILITY LINESYLE
- *O.H. = OVERHEAD , U.G. = UNDERGROUND

ROW PATTERN

- EXISTING**
- ROW
 - ⋯ SECTION
 - ⋯ PROPERTY/PARCEL

TOPO PATTERN

- EXISTING**
- ⋯ HEDGE/TREE
 - ⋯ FENCE
 - ⋯ GUARDRAIL
 - ⋯ CENTERLINE OF DITCH
 - ⋯ RAILROAD
 - ⋯ WETLAND/EDGE OF WATER
- PROPOSED**
- ⋯ GRADING LIMIT (SLOPE STAKE)
 - ⋯ CENTERLINE OF DITCH
 - ⋯ GUARDRAIL
 - ⋯ FENCE

REMOVAL LEGEND

- ▨ SIDEWALK REMOVAL
- ▨ PAVEMENT REMOVAL
- ▨ HMA BASE CRUSHING AND SHAPING
- ⊗ CURB AND GUTTER, REM
- ⊗ TREE, REM
- S-XXXXXX SALVAGE
- B-XXXXXX BULKHEAD
- A-XXXXXX ABANDON
- R-XXXXXX REMOVE
- ADJ-XXXXXX ADJUST
- REL-XXXXXX RELOCATE
- REC-XXXXXX RECONSTRUCT
- R B/O-XXXXXX REMOVE BY OTHERS
- ADJ B/O-XXXXXX ADJUST BY OTHERS
- REL B/O-XXXXXX RELOCATE BY OTHERS

IF NECESSARY FOR CLARITY

- ⊕ SALVAGE
- ⊕ BULKHEAD
- ⊕ ABANDON
- ⊕ CLEARING
- ⊕ REMOVE
- ⊕ RELOCATE
- ⊕ RECONSTRUCT
- ⊕_{REL B/O} RELOCATE BY OTHERS
- ⊕_{ADJ B/O} ADJUST BY OTHERS



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ISSUED FOR: BIDDING 03/25/2026
REVISION: DESCRIPTION DATE

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007725-0040

CITY OF FENTON
2026 LOCAL ROAD PROGRAM

LEGEND SHEET

DRAWING PATH: P:\0000_010107725040_2026_Fenton_Local_Road_Program\Drawings_CADD\Sheet\25040ELEC.dwg, March 25, 2026, 2:59 AM

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CITY STANDARD NOTES

CONSTRUCTION SHALL CONFORM TO CURRENT CITY OF FENTON STANDARDS.

NO WORK SHALL BE PERFORMED WITHOUT INSPECTION.

ALL STREETS MUST BE MAINTAINED DURING CONSTRUCTION. STREETS SHALL BE KEPT FREE OF MUD, DIRT, CONSTRUCTION DEBRIS, DUST AND THE LIKE. IF CLEANUP IS NOT PERFORMED WITHIN 24 HOURS OF NOTIFICATION, THE MUNICIPALITY RESERVES THE RIGHT TO PERFORM THE WORK AND CHARGE THE CONTRACTOR ACCORDINGLY. PAYMENT IS INCLUDED IN PROJECT CLEANUP.

WORKING HOURS (INCLUDING RUNNING OF ANY MACHINERY) SHALL BE RESTRICTED TO MONDAY THROUGH SATURDAY, 7:00 AM TO 7:00 PM; SUNDAY TO SUNDOWN; WHICHEVER IS LESS. CONSTRUCTION OPERATIONS BEYOND THE PERIODS MENTIONED ABOVE SHALL BE PERMITTED ONLY AFTER WRITTEN APPROVAL BY THE ENGINEER OR THE MUNICIPALITY. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL CODES FOR NOISE LEVELS, VIBRATIONS, OR ANY OTHER RESTRICTIONS. NO ADDITIONAL COMPENSATION WILL BE PAID FOR ANY WINTER PROTECTION MEASURES THAT MAY BE REQUIRED TO COMPLETE THE CONTRACT WORK.

ALL MATERIALS AND MANUFACTURERS SHALL CONFORM TO THE STANDARD DETAILS.

UTILITY STRUCTURES SHALL NOT BE LOCATED IN DRIVEWAYS, AND WHERE POSSIBLE, SHALL NOT BE LOCATED IN PAVED AREAS.

THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING WATER MAINS AND/OR EXISTING SEWER DURING THE CONSTRUCTION OF THIS PROJECT.

THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN ACCORDANCE WITH ACTS 173 AND 174 OF P.A. OF 2013 (MISS DIG 1-800-482-7171 OR 811) AND MUNICIPAL UTILITY/FIRE/POLICE CREWS THREE (3) WORKING DAYS BEFORE THE START OF ANY CONSTRUCTION.

THE CONTRACTOR SHALL PROVIDE NECESSARY SIGNS, BARRICADES AND LIGHTS TO PROTECT TRAFFIC AND THE WORK AS DIRECTED BY THE ENGINEER. SUCH DEVICES SHALL BE PLACED PRIOR TO STARTING WORK IN AFFECTED AREAS.

PERMANENT STRUCTURES OF ANY TYPE, INCLUDING BUT NOT LIMITED TO, TREES, LIGHT POLES, DRAINAGE STRUCTURES, SANITARY STRUCTURES, BENCHES, TRASH RECEPTACLES, ETC., WILL NOT BE ALLOWED WITHIN THE INFLUENCE OF THE PUBLIC WATER MAIN OR SANITARY SEWER EASEMENTS.

NO ADDITIONAL COMPENSATION SHALL BE PAID FOR ANY WORK STOPPAGE, DELAY, OR INCONVENIENCE DUE TO MATERIAL SHORTAGES, OPERATIONS OF OTHER PARTIES, OR EVENTS WITHIN HUMAN CONTROL.

TREE PRESERVATION AND REMOVAL NOTES

TREE REMOVAL SHALL NOT COMMENCE IN ANY GIVEN AREA UNTIL APPROVAL IS GIVEN BY THE ENGINEER. TREES REMOVED BY THE CONTRACTOR THAT WERE NOT CLEARLY MARKED AND INTENDED FOR REMOVAL SHALL BE REPLACED WITH 2 1/2" TO 3" DIAMETER PLANTINGS OF A SIMILAR SPECIES AT THE CONTRACTOR'S EXPENSE. REPLACEMENT TREES SHALL BE PROVIDED SUCH THAT THE SUM OF THE DIAMETERS OF THE REPLACEMENT TREES EQUALS THE DIAMETER OF THE TREES REMOVED. TEMPORARY FENCE SHALL BE ERRECTED AROUND TREES THAT ARE TO BE SAVED PRIOR TO THE START OF CONSTRUCTION. NO EQUIPMENT, REMOVAL DEBRIS, LITTER ETC. SHALL BE STORED WITHIN DRIP LINE OF EXISTING TREES TO REMAIN. FOR EXISTING TREES TO BE PRESERVED, ANY WORK REQUIRED WITHIN THE DRIP LINE OF THE TREE SHALL BE DONE BY HAND SO AS TO ENSURE NO OR MINIMAL DISTURBANCE AND COMPACTION TO EXISTING SURFACE ROOTS OF TREE.

LAWN SPRINKLER SYSTEMS AND LANDSCAPING NOTES

IT IS ANTICIPATED THAT THE CONTRACTOR MAY COME ACROSS EXISTING IRRIGATION SYSTEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF EXISTING LAWN SPRINKLER SYSTEMS AND/OR LANDSCAPING IN ADVANCE OF ANY WORK TO BE DONE THAT WILL AFFECT THOSE SYSTEMS AND/OR LANDSCAPING. IF THE SPRINKLER SYSTEM IS IN CONFLICT WITH THE WORK, THE CONTRACTOR SHALL COORDINATE REPAIRS OF THE SPRINKLER SYSTEM WITH THE INSPECTOR. IF THE SPRINKLER SYSTEM IS DAMAGED BY THE CONTRACTOR, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM THE NECESSARY REPAIRS AT THE CONTRACTOR'S COST. THE CONTRACTOR SHALL CAREFULLY SALVAGE THE LANDSCAPING ITEMS AND STOCKPILE THEM ON THE PROPERTY OWNERS PROPERTY FOR THE PROPERTY OWNER IN THE EVENT THAT THE SPRINKLER SYSTEM NEEDS REPAIR AND LANDSCAPING ITEMS ARE IN THE WAY.

UTILITIES

THE FOLLOWING UTILITY COMPANIES HAVE FACILITIES WITHIN THE PROJECT LIMITS:

WATER/SEWER

CITY OF FENTON
301 S. LEROY STREET
FENTON, MI 48430
ATT: DAN BRISSON
PH: 810-629-2261

FIBER OPTIC

CHARTER COMMUNICATIONS
3529 W GENESEE
LAPEER, MI 48446
ATT: DAVID KELLY
PH: 810-652-1416

COMMUNICATION

AT&T
54 N MILL ST
PONTIAC, MI 48342
ATTN: MICHAEL BAIZ
PH: 810-938-3143

GAS

CONSUMERS ENERGY
3201 EAST COURT STREET
FLINT, MI 48506
ATTN: TONNA WILCOX
PH: 810-760-3486

ELECTRIC

CONSUMERS ENERGY
1801 WEST MAIN ST
OWOSSO, MI 48867
ATTN: TRACY MAHAR
PH: 989-729-1191

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 53, 1974, THE CONTRACTOR SHALL DIAL 1-800-482-7171 OR 811 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED, MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

ALL EXPOSED GAS FACILITIES SHALL BE PROTECTED AND SUPPORTED PER CONSUMERS ENERGY GAS DISTRIBUTION STANDARDS.

PRIOR TO WORK ON FACILITIES BELONGING TO THE ABOVE GOVERNMENTAL AGENCIES, A MINIMUM OF 72 HOURS NOTICE MUST BE GIVEN IN ORDER TO INSURE PROPER INSPECTION BY THE RESPECTIVE AGENCIES.

ADJUSTING MONUMENT BOXES

IT IS THE INTENT THAT ALL GOVERNMENT CORNERS ON THIS PROJECT BE PRESERVED AND THAT, WHERE NECESSARY, MONUMENT BOXES BE PLACED OR ADJUSTED, WHETHER SHOWN OR NOT. PRESERVING MONUMENT BOXES SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT COUNTY REGISTER OF DEEDS STANDARDS.

PLAN ELEVATION

ELEVATIONS SHOWN ON THESE PLANS ARE ON THE 1988 NAVD DATUM.

STAKING

THE CONTRACTOR IS RESPONSIBLE FOR STAKING ON SITE. SEE SPECIFICATIONS FOR Contractor Staking IN THE CONTRACT DOCUMENTS.

SOIL BORINGS

THE SOIL BORING LOGS REPRESENT POINT INFORMATION. PRESENTATION OF THIS INFORMATION IN NO WAY INFERS THAT SUBSURFACE CONDITIONS ARE THE SAME OTHER THAN AT THE EXACT LOCATION OF THE BORINGS.

EXISTING UNDERGROUND PUBLIC UTILITIES

THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING WATER MAINS, SERVICES AND/OR EXISTING SEWER MAINS AND SERVICES DURING THE CONSTRUCTION OF THIS PROJECT.

UNDERGROUND CONFLICTS

THE CONTRACTOR SHALL EXPOSE EXISTING WATER MAIN, STORM SEWERS, SANITARY SEWERS, AND PRIVATE UTILITY CROSSINGS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER TO VERIFY EXISTING LOCATIONS AND ELEVATIONS BEFORE COMMENCING WORK ON A PROPOSED UTILITY. PAYMENT FOR WORK INCLUDED IN PROPOSED UTILITY, IT SHALL NOT BE PAID AS EXPLORATORY EXCAVATION.

UTILITY TRENCH DEWATERING

THE COST OF ANY DEWATERING OPERATIONS REQUIRED TO INSTALL THE PROPOSED UTILITIES SHALL BE INCLUDED IN THE UNIT PRICE FOR THE AFFECTED UTILITY. DISCHARGE FROM ALL DEWATERING PUMPS MUST BE FILTERED THROUGH A FILTER BAG. COST FOR THE PROVIDING AND DISPOSING OF THE FILTER BAGS SHALL BE PAID INCLUDED IN THE UNIT PRICE FOR THE AFFECTED UTILITY. BAGS SHALL BE REPLACED WHEN THEY BECOME CLOGGED OR IF THEY BECOME DAMAGED. REPLACEMENT OF BAGS DAMAGED DUE TO NEGLIGENCE BY THE CONTRACTOR WILL NOT BE PAID FOR SEPARATELY.

EXISTING CASTINGS

EXISTING UNDAMAGED CASTINGS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE IN KIND OR APPROVED EQUAL.

STRUCTURE COVERS

STRUCTURE COVERS WITHIN THE PROJECT LIMITS SHALL BE INSPECTED AND POOR CONDITION COVERS SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE PLANS.

FINAL ADJUSTMENTS OF ALL STRUCTURES BOTH NEW AND EXISTING SHALL BE MADE PRIOR TO PLACING THE FINAL PAVEMENT SURFACE.

UTILITY CROSSINGS

ALL UTILITY CROSSINGS AT DRIVEWAYS, APPROACHES, AND SIDE STREETS SHALL BE BACKFILLED AND COMPACTED IMMEDIATELY FOLLOWING PIPE INSTALLATION TO MAKE THESE THOROUGHFARES ACCESSIBLE. THIS WORK IS INCLUDED IN PIPE INSTALLATION.

PAVEMENT REMOVAL

PAVEMENT REMOVAL AS SHOWN ON THE PLANS SHALL BE AT THE DISCRETION OF THE ENGINEER. IF IN HIS/HER JUDGEMENT, AREAS OF PAVEMENT MAY BE LEFT IN PLACE, OR ADDITIONAL AREAS ADDED, ADJUSTMENTS CAN BE MADE IN THE QUANTITIES TO PROVIDE THE PROPER CROSS-SECTION AND BASE.

DUST CONTROL NOTES

THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST ON THE PROJECT BY SPRAYING WATER ON ANY AGGREGATE OR UNRESTORED SURFACES AS NEEDED OR AS REQUESTED BY THE ENGINEER. ALL COSTS FOR THIS OPERATION SHALL BE INCLUDED CONTRACT PAY ITEMS AND WILL NOT BE PAID FOR SEPARATELY.

SURFACE RESTORATION

DISTURBED AREAS SHALL BE RESTORED IN ACCORDANCE WITH THE SPECIAL PROVISION FOR TURF ESTABLISHMENT AND AS DIRECTED BY THE ENGINEER. AREAS FOR SEEDING AND SODDING ARE INDICATED ON THE PLANS. MULCH BLANKET AND HIGH VELOCITY MULCH BLANKET SHALL BE PLACED IN ACCORDANCE TO SUBSECTION 816.03.H OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION AND AS SHOWN ON STANDARD PLAN R-100-SERIES.

ALL AREAS DISTURBED BY THE CONTRACTOR AND/OR HIS SUBCONTRACTOR BEYOND THE SLOPE STAKE LINE OF THE PROJECT SHALL BE SODDED OR SEEDDED AS SPECIFIED OR DIRECTED BY THE ENGINEER. NO ADDITIONAL PAYMENT OR COMPENSATION WILL BE ALLOWED FOR RESTORATION OUTSIDE OF THE LIMITS AS SHOWN IN THE PLANS.

TRAFFIC CONTROL

MAINTAINING TRAFFIC:

THE CONSTRUCTION INFLUENCE AREA (C.I.A.) SHALL CONSIST OF THE WIDTH OF THE PROPOSED RIGHT-OF-WAY FROM THE PROJECT POINT OF BEGINNING TO THE POINT OF ENDING, AND A SUFFICIENT DISTANCE BEFORE AND AFTER THE PROJECT TO WARN MOTORISTS OF THE CONSTRUCTION AHEAD.

THE LOCATION OF STAGING ROADS SHOWN ON THE PLANS IS APPROXIMATE ONLY AND MAY BE ADJUSTED BY THE ENGINEER AS NEEDED TO PROVIDE FOR TRAFFIC SAFETY AS DETERMINED BY THE CITY. THE ENGINEER MAY AUTHORIZE THE USE OF GUARDRAIL OR ANY OTHER MEASURE NECESSARY TO PROTECT THE TRAFFIC.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE BARRICADE, TYPE III, DOUBLE SIDED (EA) AT PAVEMENT EDGE DROP-OFFS IN EXCESS OF 3 INCHES TO PROTECT TRAFFIC AND THE WORK. BARRICADES SHALL BE SPACED PER APPLICABLE MDOT STANDARD DETAILS.

MAINTENANCE GRAVEL SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE QUANTITY AUTHORIZED BY THE ENGINEER FOR MAINTAINING TRAFFIC ALONG THE PROJECT, AND FOR ACCESS TO DRIVEWAYS AND STREET APPROACHES.

ORANGE PLASTIC SAFETY FENCING (ALSO KNOWN AS SNOW FENCING), 4' HEIGHT, MEETING THE APPROVAL OF THE ENGINEER SHALL BE SECURELY ERRECTED ALONG THE SIDES OF ALL UNDERGROUND WORK AREAS WHEN TRENCHES EXCEED 3' DEPTH. SAFETY FENCING WILL BE MAINTAINED UNTIL BACKFILL IS UP TO WITHIN 3' OF ADJACENT GRADE. IT WILL NOT BE PAID FOR SEPARATELY.

CONSTRUCTION SIGNING

CONTRACTORS RESPONSIBILITY:

ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF THE MMUTCD AND MDOT STANDARD PLANS.

TRAFFIC SIGNS WITHIN THE PROJECT WILL BE RELOCATED BY THE CONTRACTOR FOR EACH STAGE OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TRAFFIC CONTROL DEVICES WITHIN THE PROJECT LIMITS. ANY TRAFFIC CONTROL DEVICES DAMAGED DUE TO THE CONTRACTOR'S OPERATION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS/HER SOLE EXPENSE.

THE CONTRACTOR SHALL PLACE A MINIMUM OF EIGHT SANDBAGS ON THE CONTRACTOR FURNISHED TYPE III BARRICADES TO PREVENT MOVEMENT. THE CONTRACTOR SHALL ATTACH AND MAINTAIN TWO (2) STEADY BURN AMBER LIGHTS (TYPE "C") ON EACH OF THESE BARRICADES. ALL TYPE III BARRICADES SHALL BE DOUBLE SIDED.

GARBAGE/WASTE COLLECTION

THE CONTRACTOR SHALL MAINTAIN WASTE COLLECTION PROCEDURES FOR ALL ROADWAYS AND ADJACENT BUSINESSES DURING CONSTRUCTION. TEMPORARY ACCESS FOR GARBAGE TRUCKS, OR ANY OTHER APPROVED METHOD TO ALLOW FOR REGULAR TRASH OR RECYCLE PICK-UP SHALL BE CONSIDERED AS INCIDENTAL.

SCHOOL BUS AND PUBLIC TRANSIT BUS ACCESS

THE CONTRACTOR SHALL MAINTAIN SAFE AND EFFICIENT ACCESS FOR SCHOOL BUSES AND PUBLIC TRANSPORTATION BUSES AT ALL TIMES DURING THE CONSTRUCTION OPERATIONS. ANY TEMPORARY CONSTRUCTION MEASURES, OR ALTERNATE CONSTRUCTION METHODS NECESSARY TO ALLOW FOR BUS ACCESS DURING REQUIRED HOURS OF OPERATION, SHALL BE INCIDENTAL TO THE PAY ITEMS LISTING IN THIS CONTRACT.

MAIL DELIVERY AND ACCESS

THE CONTRACTOR SHALL MAINTAIN SAFE AND EFFICIENT ACCESS FOR ALL MAIL AND DELIVERY SERVICES. TEMPORARILY MOVING MAILBOXES IN ANY FASHION SHALL BE APPROVED BY THE POST MASTER OF JURISDICTION. CITY, AND ENGINEER PRIOR TO SUCH ACTIVITIES TAKE PLACE ON THE PROJECT SITE. COMPLAINTS BY MAIL DELIVERY WORKERS SHALL BE ADDRESSED ON THE NEXT MAIL DELIVERY DAY.

SOIL EROSION AND SEDIMENTATION CONTROL NOTES

1. CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF THE SOIL EROSION AND SEDIMENTATION CONTROL ACT OF THE STATE OF MICHIGAN PART 91 OF ACT 451 OF THE PUBLIC ACTS OF 1994, THE COUNTY, LOCAL MUNICIPALITY, AND STANDARD PLAN R-96 SERIES OF THE 2020 MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR CONSTRUCTION.
2. THE CONTRACTOR SHALL CONDUCT WORK IN A MANNER THAT WILL REDUCE ACCELERATED EROSION TO THE PRACTICAL MINIMUM AND PREVENT DAMAGING SILTATION TO SEWERS AND WATER COURSES LEADING FROM THE WORK SITE.
3. THE CONTRACTOR SHALL CONDUCT WORK IN SUCH A MANNER AS TO PREVENT THE ENTRY OF FUELS, OILS, BITUMINOUS MATERIALS, CHEMICALS, SEWERAGE OR OTHER HARMFUL MATERIALS INTO NEARBY LAKES AND STREAMS.
4. CONTRACTOR SHALL CONFINE OPERATIONS TO THE MINIMUM AMOUNT OF WORKING SPACE PRACTICAL TO MINIMIZE SOIL EROSION.
5. STOCKPILING OF MATERIAL AND PLACEMENT OF EQUIPMENT SHALL BE LOCATED AS TO NOT DISTURB WATER FLOW.
6. EXCAVATION FROM THE RIGHT-OF-WAY, CHANNELS, OR OTHER MATERIAL SHALL NOT BE DEPOSITED IN OR NEAR RIVERS, STREAMS OR PONDS WHERE IT MAY ENTER THE WATERWAY.
7. AT THE COMPLETION OF EACH DAY'S CONSTRUCTION, CARE SHALL BE TAKEN TO ENSURE THAT MINIMAL EROSION WILL OCCUR IN TRENCHES AND TO STOCKPILED MATERIALS UNTIL WORK RESUMES.
8. STREET SWEEPING OR MUD REMOVAL SHALL BE PERFORMED DAILY FOR MUD TRACKED ONTO PUBLIC STREETS.
9. THE CONTRACTOR SHALL CLEAN OUT ALL CATCH BASINS AND FLUSH OUT ALL LINES AT PROJECT COMPLETION.
10. TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED THROUGHOUT THE ENTIRE CONSTRUCTION PHASE OF THE PROJECT, AND SHALL BE REMOVED BY THE CONTRACTOR AFTER THE PERMANENT SOIL EROSION MEASURES HAVE BEEN COMPLETED.
11. PERMANENT SOIL EROSION MEASURES SHALL BE COMPLETED WITHIN 5 CALENDAR DAYS OF FINAL GRADING. IN THE EVENT IT IS NOT POSSIBLE TO PERMANENTLY STABILIZE THE AREA DUE TO SITE CONDITIONS AND/OR SEASONAL LIMITATIONS, THE TEMPORARY MEASURES SHALL REMAIN IN PLACE AND SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL SUCH TIME AS IT IS PRACTICAL TO COMPLETE THE PERMANENT SOIL EROSION CONTROL MEASURES.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL SOIL EROSION CONTROL MEASURES WITHIN THE CONSTRUCTION AREA UNTIL THE FULL COMPLETION OF THE PROJECT, INCLUDING ALL PROJECT PHASES OR WORK STOPPAGES.

ENTIRE PROJECT – QUANTITIES

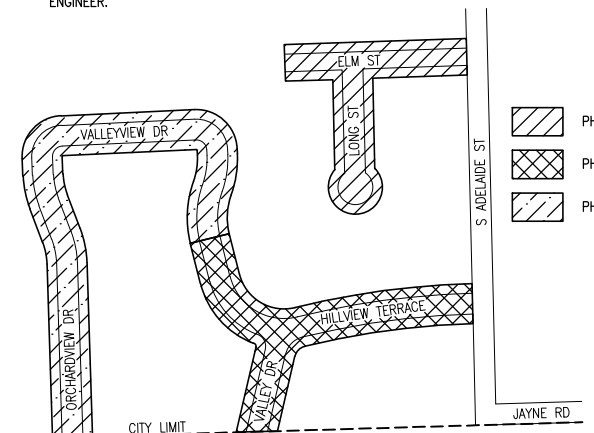
THE FOLLOWING ITEMS OF WORK SHALL BE DONE AS THEY APPLY THROUGHOUT THE PROJECT OR AS DIRECTED BY THE ENGINEER. THESE ITEMS ARE NOT DETAILED OR INCLUDED ON THE PLAN AND PROFILE SHEETS. CONTRACTOR SHALL VERIFY NEED FOR MATERIALS SHOWN BELOW PRIOR TO ORDERING.

MISCELLANEOUS	ROAD QUANTITIES	WATER MAIN QUANTITIES
TOTAL	UNIT	DESCRIPTION
0.7	LSUM	Mobilization, Max
50	Ft	Exploratory Investigation, Vertical
500	Cyd	Subgrade Undercutting, Type IV
50	Ft	Erosion Control, Check Dam, Stone
0.7	LSUM	Project Cleanup
100	Ton	Aggregate Base
50	Cyd	Material, Surplus and Unsuitable, Rem, LM
100	Cyd	Salv Crushed Material, LM
200	Cyd	Maintenance Gravel, LM
200	Ton	Maintenance Gravel, Modified
2	Ea	Dr Structure Cover, Type B
2	Ea	Dr Structure Cover, Type C
10	Ft	Structure Cover, Adj, Add Depth
2	Ea	Stm Structure Cover, Adj
10	Ea	Structure, Point Up
100	Syd	Pavt for Butt Joints, Rem
40	Ft	Joint and Crack, Cleanout
100	Syd	Driveway, Nonreinf Conc, 6 inch
6	Ea	Sign, Type III, Rem, Salv
6	Ea	Ground Mtd Sign Support, Rem
10	Ea	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn
10	Ea	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper
200	Ea	Channelizing Device, 42 inch, Fluorescent, Furn
200	Ea	Channelizing Device, 42 inch, Fluorescent, Oper
5	Ton	Dust Palliative, Applied
0.7	LSUM	Minor Traf Devices
500	Ft	Pavt Mrkg, Longit, 6 inch or Less Width, Rem
500	Ft	Pavt Mrkg, Wet Reflective, Type R, Tape, 4 inch, Yellow, Temp
4	Ea	Sign Cover
128	Sft	Sign, Type B, Temp, Prismatic, Furn
128	Sft	Sign, Type B, Temp, Prismatic, Oper
0.7	LSUM	Traf Regulator Control
20	Syd	Riprap, Plain
4000	Syd	Turf Establishment, Performance
1	Ea	Monument Box
1	Ea	Monument Box, Adj
1	Ea	Monument Preservation
10	Ea	Protect Corners
250	Ft	Sprinkler Line
50	Ea	Sprinkler Head, Relocate
50	Ea	Sprinkler Head, Replace
0.7	LSUM	Contractor Staking
0.7	LSUM	Audio Video Route Survey

MISCELLANEOUS	WATER MAIN QUANTITIES	
TOTAL	UNIT	DESCRIPTION
0.3	LSUM	Mobilization, Max
100	Ft	Exploratory Investigation, Vertical
0.3	LSUM	Project Cleanup
0.3	LSUM	Minor Traf Devices
0.3	LSUM	Traf Regulator Control
4	Ea	Water Main, 6 inch, Cut and Plug
1	Ea	Live Tap, 8 inch by 16 inch
1	LSUM	Water Main, Abandon with Flowable Fill
0.3	LSUM	Contractor Staking
0.3	LSUM	Audio Video Route Survey

PROJECT PHASING PLAN

1. COORDINATE PHASING WITH CONSUMERS ENERGY. CONSUMERS ENERGY WILL BE REPLACING GAS SERVICE LEADS AHEAD OF WATER MAIN INSTALLATION.
2. MULTIPLE MILLING OPERATIONS MAY BE NECESSARY TO COMPLETE THE PROJECT.
3. ROAD WORK AHEAD SIGNS SHALL BE PLACED IN ADVANCE OF ADELAIDE ST ENTRANCES AND CITY LIMITS (4 EACH).
4. WATER MAIN CONNECTION AT ELM ST AND S ADELAIDE ST SHALL BE COMPLETED UNDER FLAG CONTROL AND PLATED.
5. ANY CHANGES TO THE PHASING PLAN SHOWN IN THE PLANS SHALL BE APPROVED BY THE ENGINEER.



DRAWING PATH: P:\0000_010107\25040_2026_Fenton_Local_Road_Program\Drawings_CADD\Sheet25040001.dwg, Month: 25, 2026, 2:59 PM



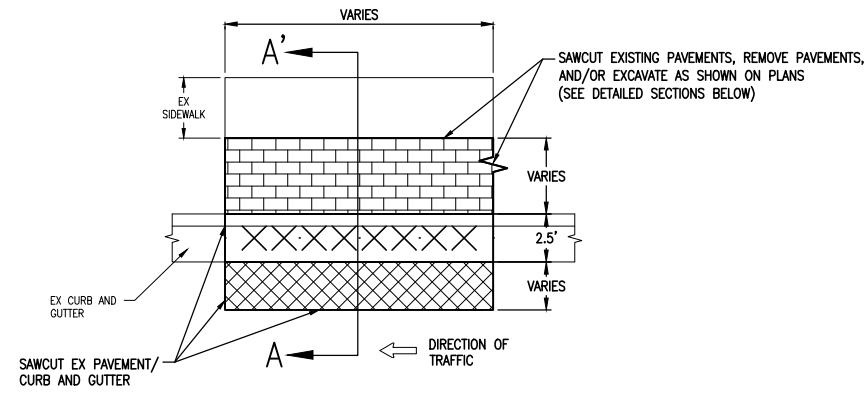
ISSUED FOR: BIDDING	03/25/2026	DATE
REVISION		DESCRIPTION

PROJECT NUMBER	001725-0040
PH	AP

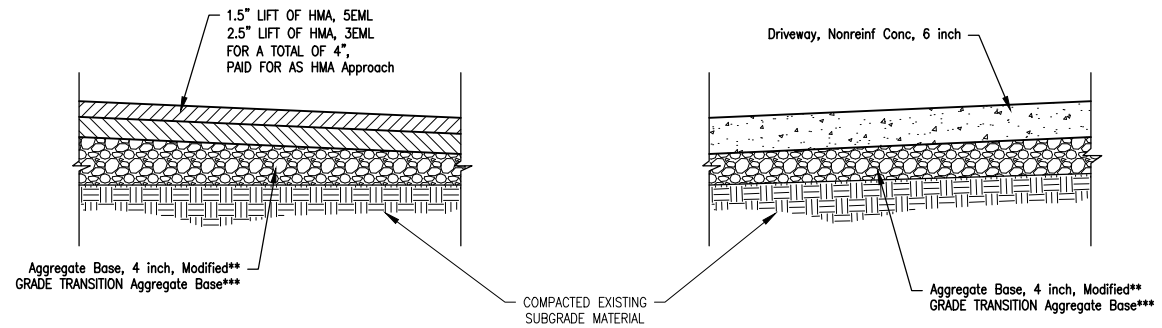
CITY OF FENTON
2026 LOCAL ROAD PROGRAM
GENERAL NOTES SHEET

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·XXXXXXXXXX· Curb and Gutter, Rem Pavt, Rem, Modified GREENBELT: Excavation, Earth DRIVEWAY: Pavt, Rem, Modified



CURB AND GUTTER REMOVE/REPLACE DETAIL

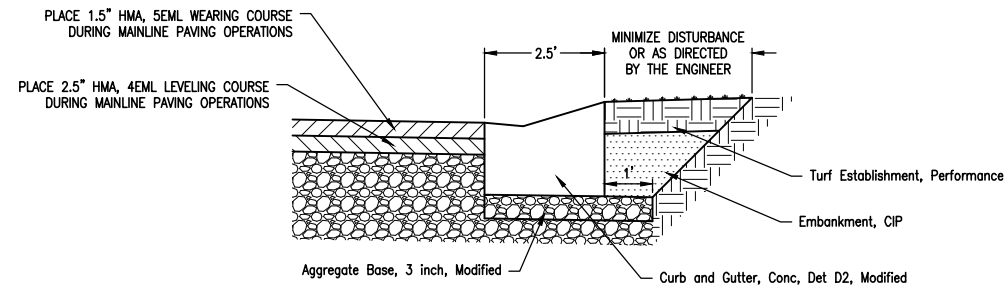


HMA DRIVE PAVEMENT SECTION

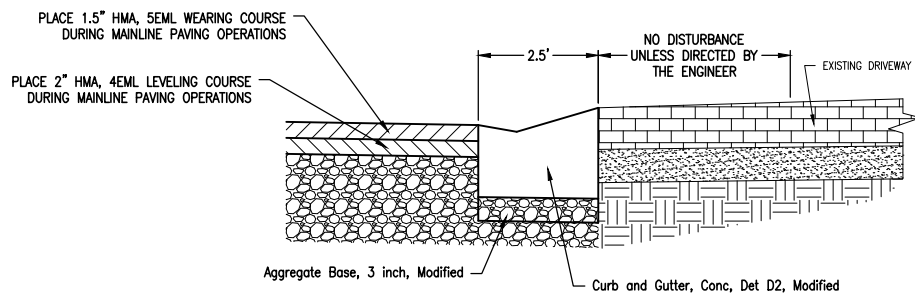
CONCRETE DRIVE PAVEMENT SECTION

**HILLVIEW TERRACE AND VALLEY DR
***ELM ST AND LONG ST:
CRUSHED MATERIAL MAY BE SUBSTITUTED IN FOR
AGGREGATE BASE UNDER DRIVEWAYS,
PAID FOR AS Salv Crushed Material, LM.

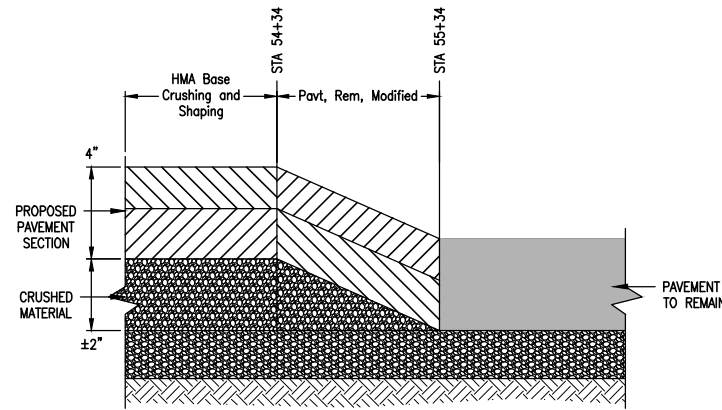
NOTE:
CROWN OR SHEET DRIVEWAY CROSS SLOPES AS
REQUIRED TO PROMOTE POSITIVE DRAINAGE.



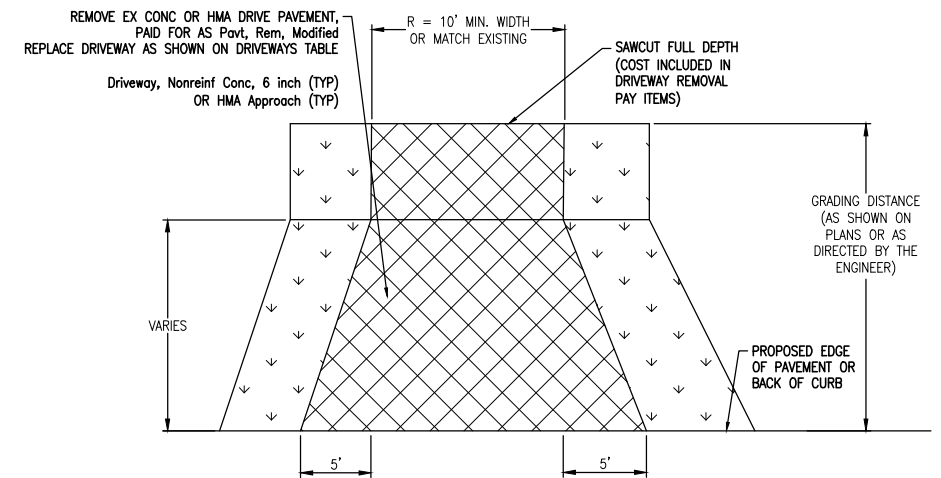
SECTION A-A':
ADJACENT TO GREENBELT
NOT TO SCALE



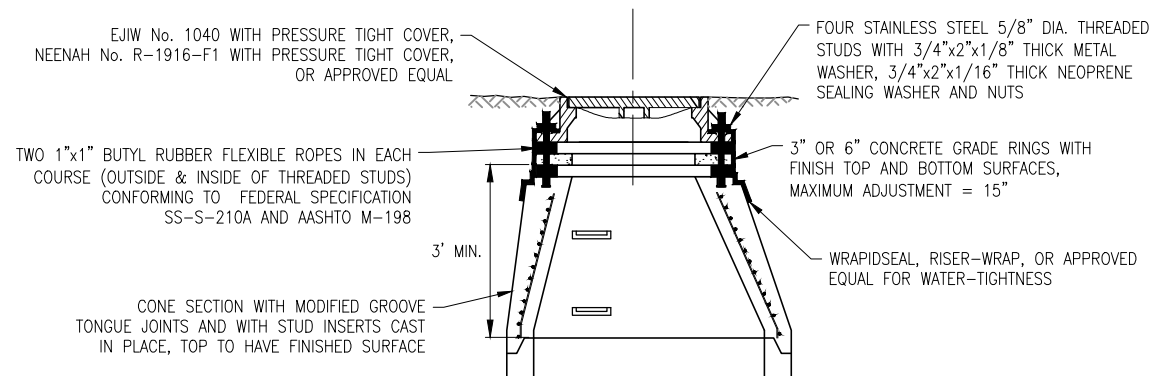
SECTION A-A':
ADJACENT TO DRIVEWAY
NOT TO SCALE



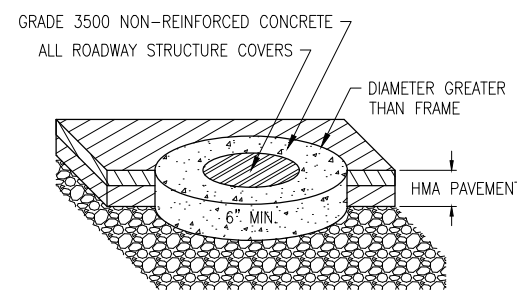
TRANSITION TO/FROM CRUSH AND SHAPE
RECONSTRUCTION DETAIL



TYPICAL RESIDENTIAL DRIVE DETAIL

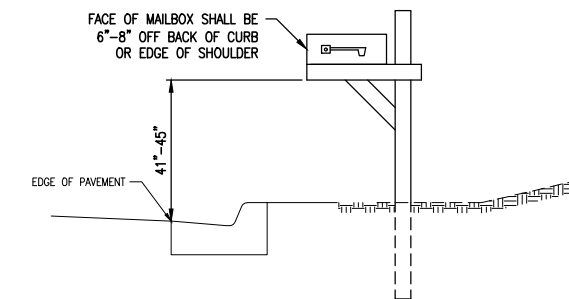


SANITARY STRUCTURE ADJUST DETAIL



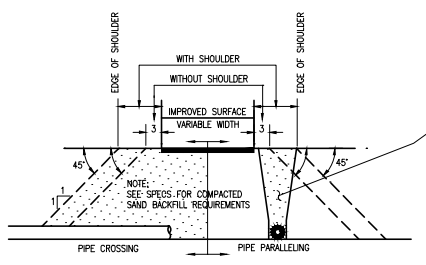
CORED CONCRETE COLLAR DETAIL

COST INCLUDED IN STRUCTURE ADJUST PAY ITEMS:
San Structure Cover, Adj / Stm Structure Cover, Adj / Utl Structure Cover, Adj / Wtr Structure Cover, Adj
AND INCLUDED WITH NEW GATE WELL COVERS

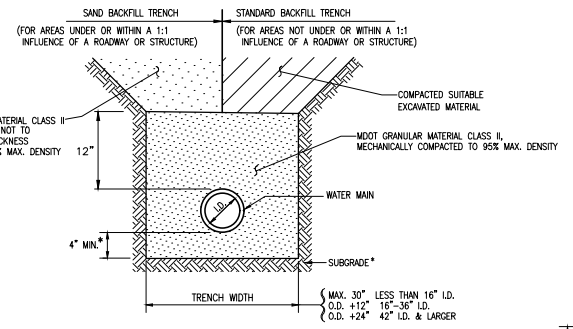


TYPICAL MAILBOX RELOCATION

AS REQUIRED BY POSTAL REGULATIONS



BACKFILL IN THE AREA OF STREETS, ALLEYS, SIDEWALKS, DRIVES & PARKING LOTS



STANDARD BEDDING AND TRENCH BACKFILL DETAIL FOR WATER MAIN

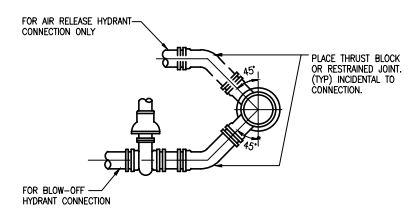
* NOTE: IF THE EXISTING SUBGRADE SOILS MEET THE REQUIREMENTS FOR MDOT GRANULAR MATERIAL CLASS II (MINIMUM 4" THICK), THEN THE WATER MAIN MAY BE Laid DIRECTLY ON THE COMPACTED NATIVE SUBGRADE SOILS.

FOR PLUGS

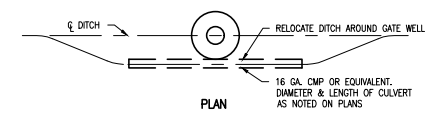
D	A	B	C	MIN
20"	2"	5"	2.5"	
16"	4"-10"	4"-10"	2"	
12"	4"-4"	3"	1"-9"	
10"	3"	2"	1"-6"	
8"	2"-10"	2"-6"	1"-6"	
6"	1"-6"	1"-6"	3"	

FOR TEES AND TAPPING SLEEVES

D	A	B	C	E	MIN
20"	6.5"	4.5"	3.5"	3"	
16"	4"-8"	4"-8"	2.5"	2.75"	
12"	4"	3"	2.5"	2.5"	
10"	3"	2"	2"	2.25"	
8"	2"-6"	2"	2"	2.25"	
6"	2"	2"	2"	2.25"	



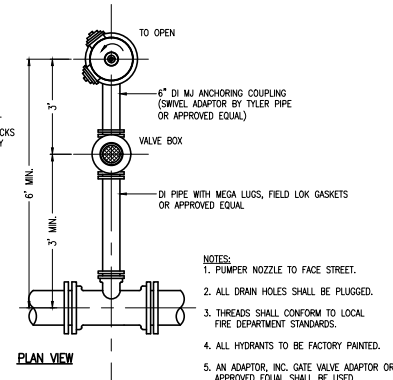
HYDRANT AIR RELEASE AND BLOW-OFF CONNECTION



DITCH ENCLOSURE AT GATE WELL OR HYDRANT

THRUST BLOCK DETAILS

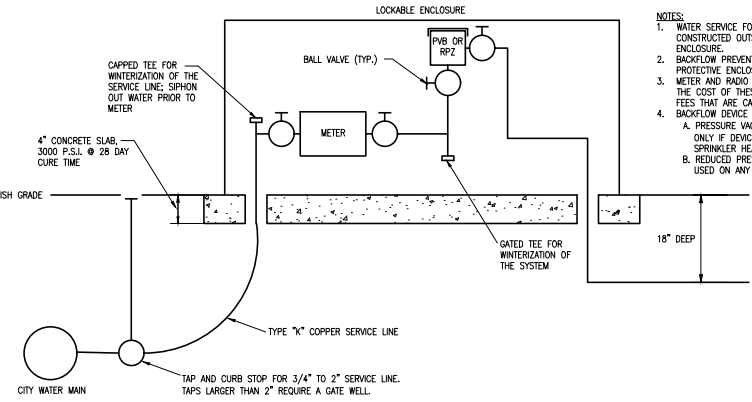
USE PUSH-ON JOINT PIPE W/THRUST BLOCKS FOR TOTAL ASSEMBLY LENGTH OVER 6'-0"



PLAN VIEW

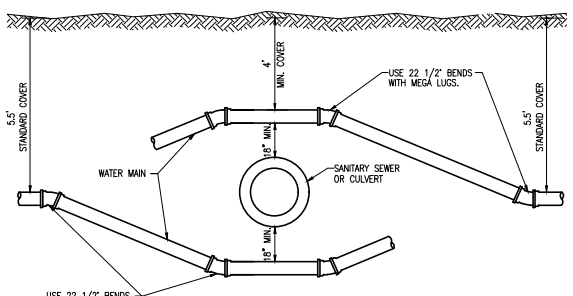
PROFILE VIEW

DETAIL OF HYDRANT SETTINGS



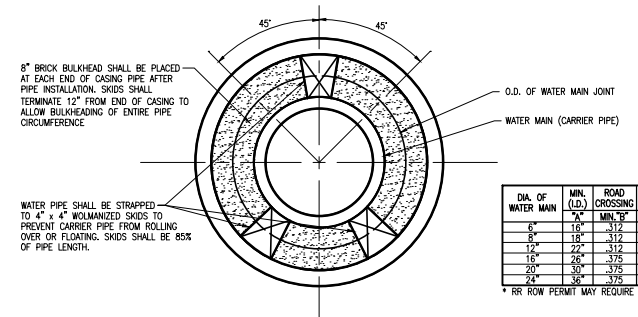
SEPARATE OUTDOOR IRRIGATION METER (NON-RESIDENTIAL)

NOTES:
1. WATER SERVICE FOR LANDSCAPE IRRIGATION MUST BE CONSTRUCTED OUTSIDE OF BUILDING, INSIDE A PROTECTIVE ENCLOSURE.
2. BACKFLOW PREVENTER MAY BE PLACED OUTSIDE OF PROTECTIVE ENCLOSURE IF NECESSARY.
3. METER AND RADIO READ DEVICE ARE SUPPLIED BY CITY. THE COST OF THESE DEVICES IS INCLUDED IN THE TAP FEES THAT ARE CALCULATED BY THE DPW.
4. BACKFLOW DEVICE REQUIREMENTS:
A. PRESSURE VACUUM BREAKER (PVB) CAN BE UTILIZED ONLY IF DEVICE IS 12" HIGHER THAN HIGHEST SPRINKLER HEAD.
B. REDUCED PRESSURE BACKFLOW PREVENTER CAN BE USED ON ANY SYSTEM.



SEWER OR CULVERT CROSSING

NOTE: BENDS CAN BE ELIMINATED FOR MINOR VERTICAL DEFLECTIONS IN DUCTILE IRON PIPE (1" OR LESS). IN THIS CASE, THE PIPE MAY BE DEFLECTED UP TO 4" PER JOINT.



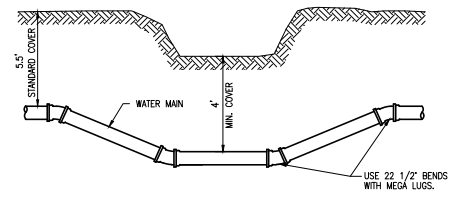
PIPE BARREL SUPPORT FOR WATER MAIN CONSTRUCTED IN CASING PIPE

DIA. OF WATER MAIN	MIN. (LD)	ROAD CROSSING		RAILROAD CROSSING	
		MIN. 6"	MIN. 8"	MIN. 6"	MIN. 8"
6"	16"	312	312	312	312
8"	18"	312	312	312	312
10"	22"	312	438	312	312
12"	26"	312	564	312	312
14"	30"	312	690	312	312
16"	34"	312	816	312	312
18"	38"	312	942	312	312

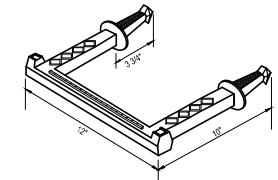
A=INSIDE DIAMETER
B=WALL THICKNESS
* RR ROW PERMIT MAY REQUIRE A THICKER WALL SECTION.

NOTE:
1. CASING SHALL BE SPIRAL WELDED STEEL PIPE A.S.T.M. A-252, GR. 2.
2. 4" MINIMUM CLEARANCE BETWEEN MAX. O.D. AT A JOINT OF THE PIPE AND THE I.D. OF THE CASING PIPE FOR THE TOP 90° OF THE CASING.
3. THE CONTRACTOR SHALL SUBMIT IN WRITING THE DETAILS OF THE APPROPRIATE PIPE CASING INSTALLATION FOR THE REVIEW AND APPROVAL BY THE ENGINEER BEFORE INSTALLATION OF ANY CASING STARTS.
4. IF THE CONTROLLING AGENCY PERMIT REQUIREMENTS INDICATE THAT SAND OR GROUT MUST BE PLACED BETWEEN THE CASING PIPE AND CARRIER PIPE, THEN THE SAND OR GROUT SHALL BE PLACED IN ACCORDANCE WITH THE PERMIT SPECIFICATIONS.

STANDARD CASING SECTION



DITCH OR STREAM CROSSING



MANHOLE STEP
M.A. PSI-375

WATER MAIN NOTES

- WATER MAIN NOTES:**
- All water main shall be ductile iron. Concrete, HDPE or PVC water main may be permitted upon city approval. Water main shall be per the following specification.
 - Ductile iron pipe shall be ANSI 1-A21.51 (AWWA-C151) std. wall thickness, cement lined with bituminous seal coat Class 54 for sizes 3" through 16" and Class 55 for 20" through 24" pipe. All 6" pipe MUST be ductile iron.
 - Pre-stressed Concrete Cylinder pipe (P.C.C.P.) shall be AWWA C-301 specification for sizes larger than 24".
 - Polyvinyl Chloride (PVC) pipe shall meet the requirements of ANSI/AWWA C909-98 (including any appendices) as amended for the pressure class of 200 psi (SDR 14). PVC may only be used for 8" or 12" mains or 2" water services. All fittings for PVC shall be ductile iron, as specified in ANSI 1-A21.10 (AWWA-C110) as amended. PVC pipe shall only be used when approved by the City of Fenton.
 - High Density Polyethylene (HDPE) pipe shall meet the requirements of AWWA C906 (SDR 11) with blue shell or blue stripe.
 - Water services up to 2" shall be either Type K soft copper or PVC with tracing wire meeting the requirements of AWWA for a pressure class of 200 psi. If PVC is used, a tracing wire shall be run from the meter setup to the curb box (See General Notes, Item #8 for tracing wire requirements). All water services greater than 2" shall follow the standards listed in Water Main Note #1.
 - The maximum allowable deflection at joints for ductile iron water main shall be per manufacturers standards (i.e. 4" - 36" water main - 5" per 20').
 - Polywrap may be required by the city and shall be placed around the water main.
 - Mega lugs shall be placed at all valves, bends, tees, plugs, hydrants and mechanical fittings. Surrounding joints shall be restrained using field lok gaskets or approved equal and shall be per the manufacturer's joint restraining schedule.
 - All bolts on all flanged and mechanical joint fittings shall be domestic origin high strength, low alloy COR-BLUE steel bolts or approved equal. These bolts shall meet the current provisions of American National Standard ANSI/AWWA C111/A21.11-90 for rubber gasket joints for ductile iron pressure pipes and fittings. Bolt manufacturer's certificate of compliance must accompany each shipment.
 - Backfill shall be compacted above pipe as indicated on construction drawings. Trench backfill shall be a suitable material and shall be free of any organic materials and rocks larger than 3" in size. Under road surfaces, pavement, sidewalks, curbs, driveways and areas where trench is within a 1:1 influence of the pavement, sand backfill shall be used which shall consist of MDOT granular material Class II or III and shall be compacted in layers not to exceed 12" in thickness to a density of 95% as determined by AASHTO T99. Where water main is to be placed on fill material, all fill material below the pipe must also be compacted to 95% maximum unit density. All backfill placed with a 1:1 influence of structures shall be approved sand, placed in 1' layers and compacted. Trenches that are to be left open overnight shall be enclosed with suitable fencing and lighted barricades, unless otherwise approved by the City.

PVC Installation Specifications:

 - Where pipe must be cut, machine beveling shall be provided as specified by the manufacturer, unless the cut end will be butted against a fitting with an approved bolt-type joint. The factory beveled end of the spigot must be removed when the spigot will be butted against a fitting.
 - All PVC pipe deflections shall be made using mechanical fittings. PVC pipe shall not be placed or connected by "breaking" or "opening" joints (O' deflection). Physically bending the pipe is not allowed either. Each individual length of PVC pipe shall be placed in a straight line.
 - PVC water main shall not be exposed to sunlight for more than one (1) week. The contractor shall provide an opaque covering to shield all parts of pipe. Such pipe that is not adequately protected will be rejected.
 - PVC water main shall not be installed when temperatures are below zero (0) degrees Fahrenheit.
 - Pipe shall be joined per the manufacturer's recommendation. Push-on type joints shall not be installed past the "home" mark on the pipe, or otherwise disrupt the required elastomeric gasket.
 - PVC water main shall not be used in areas where any petroleum products are found or suspected to exist in the soils of surrounding area.
 - Extreme care must be used when attaching fittings. Mechanical joints to PVC pipe must distribute the loading evenly to avoid damage and potential breaks or weak points in the pipe.
 - Extreme care must be used when bringing PVC pipe into and out of structures. A uniform annular space must be created to eliminate any potential point loading on the pipe. Point loading and pipe movement at the structure joint can cause the pipe to split.
 - Rubber "boots" or "sleeves" are required for pipes entering structures (similar to sanitary sewer "boots").
 - Taps shall not be made on PVC water main that is bent, or otherwise in tension.
 - A Ford or McDonald double-banded brass tapping saddle shall be provided for all taps to PVC water main.
 - All taps shall be made with a sharp bit and high speed tap, as recommended by the manufacturer.

VALVE & SLEEVE NOTES:

- Gate Valves shall be ductile iron body, fully bronze mounted, E.J.I.W. resilient wedge, non-rising stem, opening counterclockwise conforming to AWWA or C515, E.J. Flow Master or approved equal.
- All gate valves 6" or larger shall be placed in a well; curb stops and boxes are required for water main 2" or smaller. A valve shall be placed in a well for all water main larger than 2" and smaller than 6" when a tapping sleeve will be utilized; otherwise, a valve may be placed in a box for water main larger than 2" and smaller than 6".
- All gate valves with operating nuts at a distance greater than 5' below ground surface shall be provided with an extension stem. The length of the extension shall be such that it will be within 5' of ground surface when an extension stem is used. It shall be held in place by two extension stem guide assemblies. Each assembly shall be comprised of a "U" bracket and "L" bracket supplied by E.J.I.W. The stem guides shall be located opposite from each other, and shall be suitably fastened to the wall of the gate well. In addition, a "stop" shall be welded to the extension stem in a location that will prevent the extension stem from slipping off the operating nut. Details of extension stem and method of installation shall be approved by the engineer prior to installation.
- All pre cast concrete gate well sections shall be manufactured to conform with ASTM C478, standard specifications for precast reinforced concrete manhole sections, except wall thickness shall be as shown on these details. All joints for precast concrete gate well sections shall be "modified grooved tongue" with gasket manufactured to conform with ASTM C443, standard specification for joints for circular concrete sewer and culvert pipe using rubber gaskets.
- All gate well covers shall be E.J.I.W. #1040A with bolted flange. All cover bolts shall be stainless steel.
- Tapping sleeves shall be mechanical joint with E.J. SERIES Mechanical Joint Tapping Gate Valve. Lead joint sleeves shall not be used. Like size tapping sleeves can only be used when the existing main is ductile iron and must be a mechanical tapping sleeve.
- All tongue and groove joints on wells shall be cement tuck-pointed inside and out.

HYDRANT NOTES:

- All hydrants shall be E.J.I.W. #58R-250-Traffic Model and shall conform to AWWA Spec. C-502 as amended, and shall have a minimum 5 1/4" valve opening that closes with the water pressure. Hydrants shall be traffic style with breakable flange and coupling.
- Hydrants shall have a swivel flange to allow bonnet to be turned 360 degrees without removing the bonnet, and barrel flanges shall be integrally cast with the barrel. Inlet shoe shall have a bronze valve seat, which can be removed without digging.
- Inlet connection shall be 6" mechanical joint, ASA-A21-11. Stem threads shall be sealed with double "O" rings and shall be permanently lubricated with all weather grease.
- Hose connections: Two (2) 4 1/2" pumper nozzles, one (1) with Harrington Integral Hydrant Storz nozzle (part# 946081/EJW# 54036D) and one (1) with City of Detroit Fire Department (FD) threads. The Storz nozzle shall have a brass metal face seal and hard anodized aluminum Storz ramps and lugs. The aluminum's finish shall be hardcoat anodized to Mil-A-8625F, Type 3 dark gray. The adapter shall be made of forged or extruded 6061-T6 aluminum. The blind cap shall have hard anodized aluminum Storz ramps and lugs, made of forged or extruded 6061-T6 aluminum. The center cap shall be equipped with a suction seal. The cap shall be connected to the adapter or the hydrant with a 0.125" vinyl coated aircraft cable.
- Operating Nut: (1) 1 1/2" P-F pentagon, open left. 5.5" cover or specified on plans. A suitable nozzle lock shall be in place to prevent inadvertent nozzle removal. Wedge locks and/or ductile iron retainers rings to secure nozzles shall not be allowed.
- Hydrants shall be painted red above the ground and black below, with a finish coat of Glamortex 501 enamel, color 314 vermilion, or approved equal. Top flange shall be painted with JDL Industries (305) 599-2022, Bright White Reflective paint, color No.1460 or taped with 3M Scotchlite High Intensity Reflective Tape #3870. Nozzle cap shall be painted per Fenton Fire Dept. requirements: White - 4" mains, Red - 6" mains (Paint #4431-01), Orange - 8" mains (Paint #4431-24), Green - 12" mains (Paint #4431-10), Blue - 16" or larger mains (Paint #4431-12). Paint can be obtain at Tractor Supply Company using the associated Paint Numbers. DO NOT paint Storz nozzle.

ISSUED FOR: BIDDING
REVISION DESCRIPTION
DATE

PROJECT NUMBER: 001725-0040
CITY OF FENTON
2026 LOCAL ROAD PROGRAM
WATER MAIN DETAILS SHEET

JOB BENCHMARK #200
COTTON SPINDLE ON WEST FACE OF WOOD TELEPHONE POLE. LOCATED ON EAST SIDE OF ORCHARDVIEW DR. NEAREST TO HOUSE ADDRESS #11894. ELEV 1005.53

JOB BENCHMARK #201
CHISELED "T" ON EAST SIDE OF SANITARY MH RM. LOCATED ON WEST SIDE OF ORCHARDVIEW DR. NEAREST TO HOUSE ADDRESS #11667. ELEV 1005.98

JOB BENCHMARK #202
CHISELED "T" ON EAST SIDE OF SANITARY MH RM. LOCATED ON WEST SIDE OF ORCHARDVIEW DR. NEAREST TO HOUSE ADDRESS #11671. ELEV 993.59

JOB BENCHMARK #203
ARROW ON FIRE HYDRANT. LOCATED ON SOUTH SIDE OF VALLEYVIEW DR. NEAREST TO HOUSE ADDRESS #343. ELEV 992.35

JOB BENCHMARK #204
CHISELED "T" ON NORTH RIM OF STORM MH. LOCATED ON SOUTH SIDE OF VALLEYVIEW DR. NEAREST TO HOUSE ADDRESS #341. ELEV 991.88

JOB BENCHMARK #205
COTTON SPINDLE ON EAST FACE OF WOOD GUY POLE. LOCATED ON WEST SIDE OF HILLVIEW TER. NEAREST TO HOUSE ADDRESS #225. ELEV 990.20

JOB BENCHMARK #206
COTTON SPINDLE ON EAST FACE OF WOOD LIGHT POLE. LOCATED ON SW QUAD OF INTERSECTION OF HILLVIEW TER. & VALLEY DR. ELEV 991.09

JOB BENCHMARK #208
COTTON SPINDLE ON EAST FACE OF WOOD POWER POLE. LOCATED ON WEST SIDE OF FARMHILL DR. NEAREST TO HOUSE ADDRESS #11597. ELEV 1006.51

JOB BENCHMARK #209
CHISELED "T" ON NORTH SIDE OF SANITARY MH RM. LOCATED ON SOUTH SIDE OF HILLVIEW TER. NEAREST TO HOUSE ADDRESS #215. ELEV 979.96

JOB BENCHMARK #210
COTTON SPINDLE ON SOUTH FACE OF WOOD UTILITY POLE. LOCATED ON NW QUAD AT "T" INTERSECTION OF HILLVIEW & ADELAIDE ST. ELEV 980.18

TRAVERSE POINT #100
N 468221.37
E 13299374.72 ELEV 1005.24

TRAVERSE POINT #101
N 468630.28
E 13299363.12 ELEV 1005.04

TRAVERSE POINT #102
N 469045.26
E 13299258.34 ELEV 992.84

TRAVERSE POINT #103
N 469061.59
E 13299560.63 ELEV 990.47

TRAVERSE POINT #104
N 469036.10
E 13299753.84 ELEV 992.80

TRAVERSE POINT #105
N 468751.48
E 13299743.00 ELEV 999.01

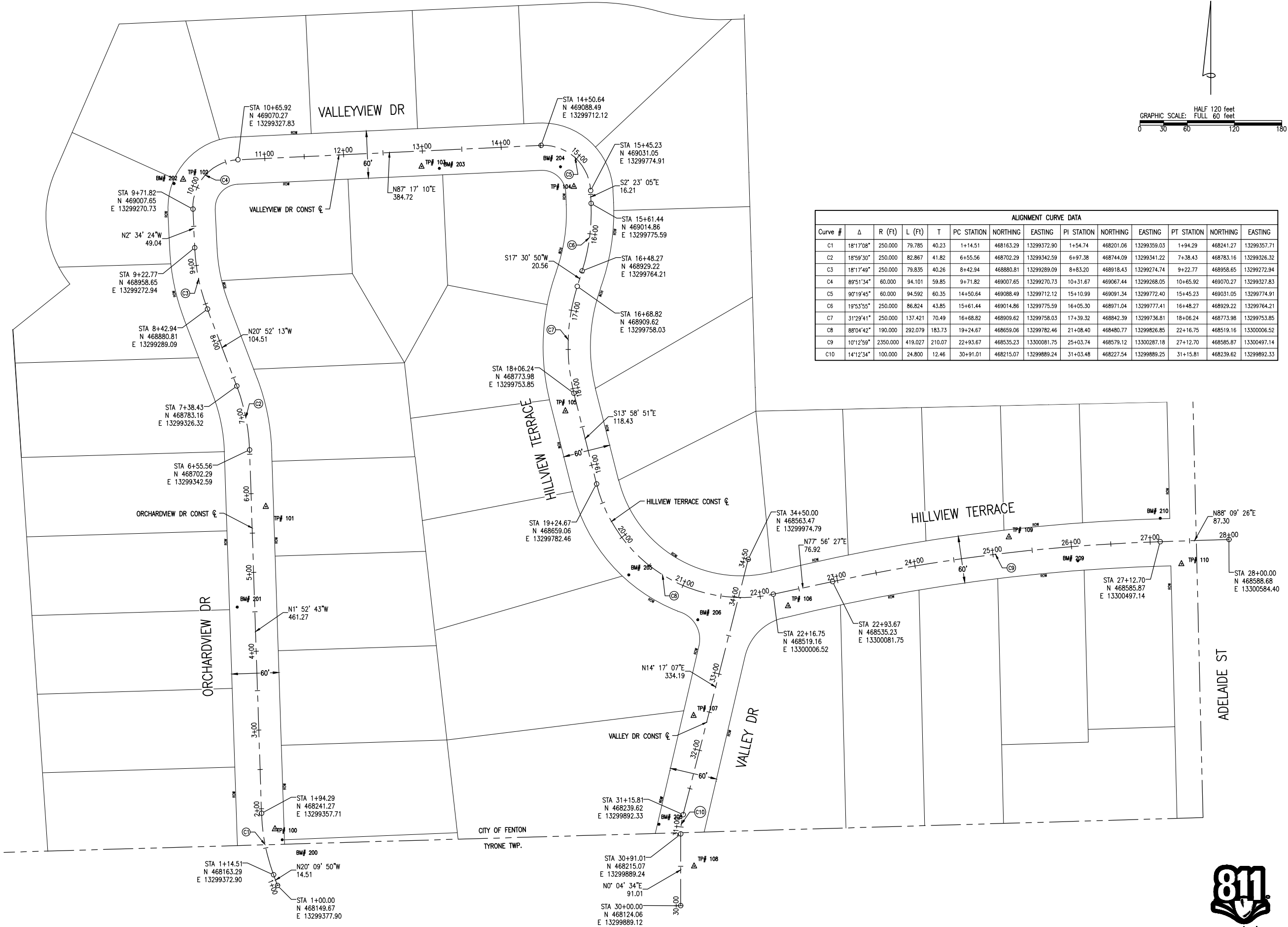
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E 13300025.27 ELEV 991.72

TRAVERSE POINT #107
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E 13299905.60 ELEV 996.98

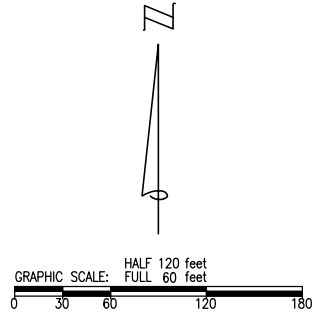
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TRAVERSE POINT #109
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E 13300305.37 ELEV 980.80

TRAVERSE POINT #110
N 468557.54
E 13300524.09 ELEV 980.51



ALIGNMENT CURVE DATA													
Curve #	Δ	R (Ft)	L (Ft)	T	PC STATION	NORTHING	EASTING	PI STATION	NORTHING	EASTING	PT STATION	NORTHING	EASTING
C1	18°17'08"	250.000	79.785	40.23	1+14.51	468163.29	13299372.90	1+54.74	468201.06	13299359.03	1+94.29	468241.27	13299357.71
C2	18°59'30"	250.000	82.867	41.82	6+55.56	468702.29	13299342.59	6+97.38	468744.09	13299341.22	7+38.43	468783.16	13299326.32
C3	18°17'49"	250.000	79.835	40.26	8+42.94	468880.81	13299289.09	8+83.20	468918.43	13299274.74	9+22.77	468958.65	13299272.94
C4	89°51'34"	60.000	94.101	59.85	9+71.82	469007.65	13299270.73	10+31.67	469067.44	13299268.05	10+65.92	469070.27	13299327.83
C5	90°19'45"	60.000	94.592	60.35	14+50.64	469088.49	13299712.12	15+10.99	469091.34	13299772.40	15+45.23	469031.05	13299774.91
C6	19°53'55"	250.000	86.824	43.85	15+61.44	469014.86	13299775.59	16+05.30	469071.04	13299777.41	16+48.27	468929.22	13299764.21
C7	31°29'41"	250.000	137.421	70.49	16+68.82	468909.62	13299758.03	17+39.32	468842.39	13299736.81	18+06.24	468773.98	13299753.85
C8	88°04'42"	190.000	292.079	183.73	19+24.67	468659.06	13299782.46	21+08.40	468480.77	13299826.85	22+16.75	468519.16	1330006.52
C9	10°12'59"	2350.000	419.027	210.07	22+93.67	468535.23	13300081.75	25+03.74	468579.12	13300287.18	27+12.70	468585.87	13300497.14
C10	14°12'34"	100.000	24.800	12.46	30+91.01	468215.07	13299889.24	31+03.48	468227.54	13299889.25	31+15.81	468239.62	13299892.33

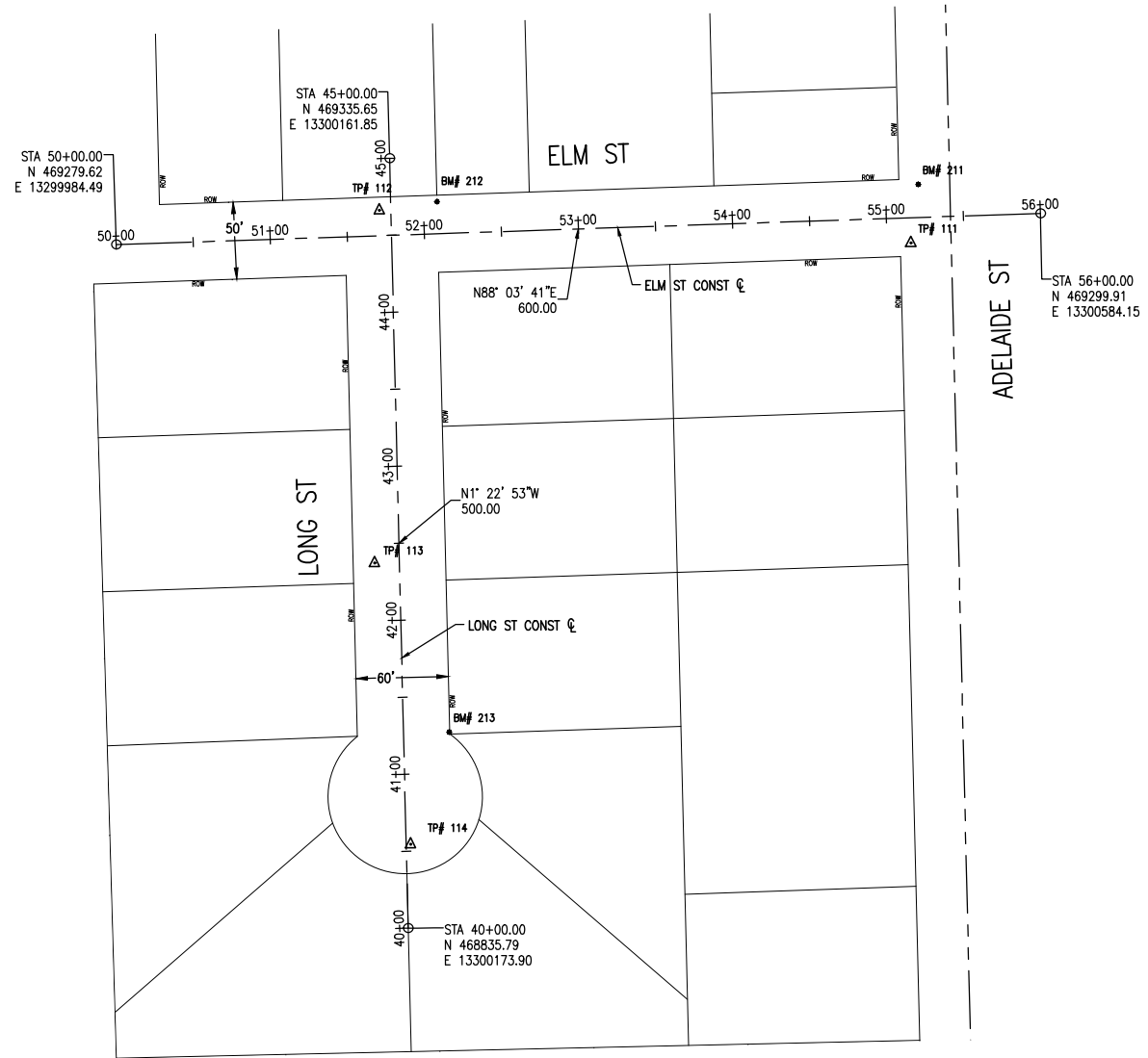
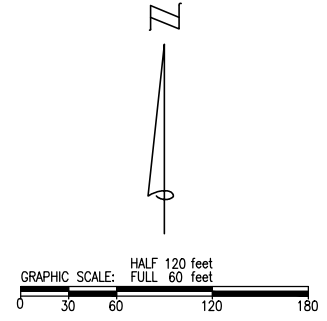


ISSUED FOR:	REVISION:	DATE:
BIDDING		

PROJECT NUMBER: 007725-0040
 CITY OF FENTON
 2026 LOCAL ROAD PROGRAM
 ORCHARDVIEW DR, VALLEYVIEW DR, HILLVIEW TERRACE, & VALLEY DR
 ALIGNMENT SHEET



JOB BENCHMARK #211 COTTON SPINDLE ON SOUTH FACE OF WOOD UTILITY POLE. LOCATED ON NW QUAD OF INTERSECTION AT ELM & ADELAIDE. ELEV 967.67
JOB BENCHMARK #212 COTTON SPINDLE ON SOUTH FACE OF WOOD UTILITY POLE. LOCATED ON NORTH SIDE OF INTERSECTION AT ELM & LONG ST. NEAREST TO HOUSE ADDRESS #214. ELEV 979.94
JOB BENCHMARK #213 COTTON SPINDLE ON WEST FACE OF WOOD LIGHT POLE. LOCATED ON EAST SIDE OF LONG ST. NEAREST TO HOUSE ADDRESS #1009. ELEV 989.38
TRAVERSE POINT #111 N 469280.66 E 13300500.00 ELEV 968.38
TRAVERSE POINT #112 N 469301.79 E 13300155.14 ELEV 980.66
TRAVERSE POINT #113 N 469072.76 E 13300152.01 ELEV 985.83
TRAVERSE POINT #114 N 468890.16 E 13300175.42 ELEV 989.10



ISSUED FOR:	BIDDING	DATE
REVISION	DESCRIPTION	

PROJECT NUMBER: PM AP
007726-0040
CITY OF FENTON
2026 LOCAL ROAD PROGRAM
ELM ST & LONG ST
ALIGNMENT SHEET



Know what's below.
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DRAWING PATH: P:\000_010\07726-00_2026_Fenton_Local_Road_Program\Drawings_CADD\Sheets\2026\0040.dwg March 25, 2025 2:59 AM

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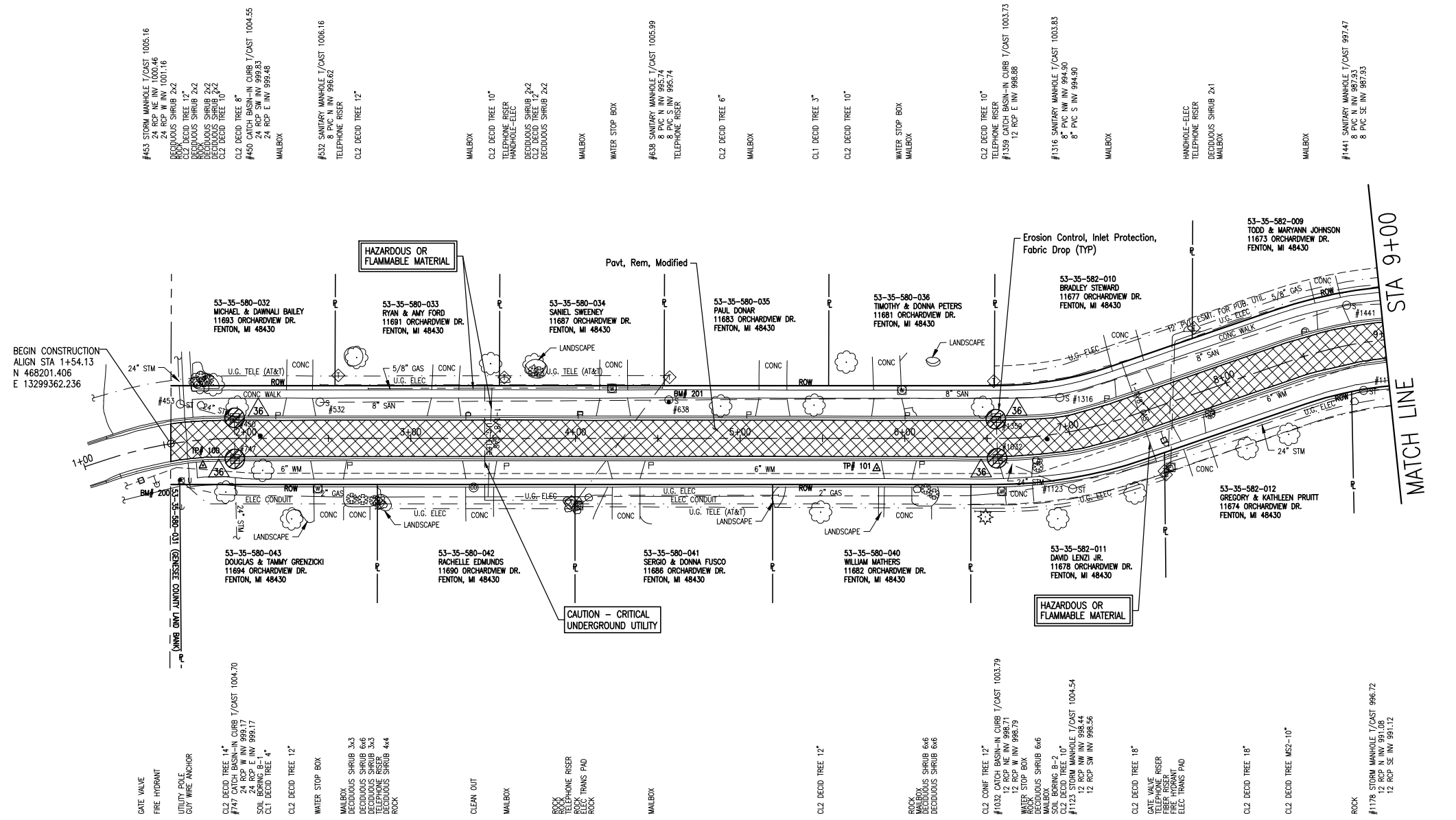
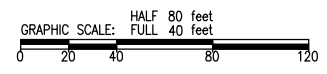
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COTTON SPINDLE ON WEST FACE OF
WOOD TELEPHONE POLE. LOCATED ON
EAST SIDE OF ORCHARDVIEW DR.
NEAREST TO HOUSE ADDRESS #11694.
ELEV 1005.53

JOB BENCHMARK #201
CHISELED "I" ON EAST SIDE OF
SANITARY MH RM. LOCATED ON WEST
SIDE OF ORCHARDVIEW DR. NEAREST TO
HOUSE ADDRESS #11687.
ELEV 1005.98

TRAVERSE POINT #100
N 468221.37
E 13299374.72 ELEV 1005.24

TRAVERSE POINT #101
N 468630.28
E 13299363.12 ELEV 1005.04

ORCHARDVIEW DR (60' R.O.W.)



SOIL EROSION LEGEND

- INLET FILTER
- Erosion Control, Inlet Protection, Fabric Drop
- GEOTEXTILE SILT FENCE
- Erosion Control, Silt Fence
- GRADING LIMIT

CURB REMOVAL AND REPLACEMENT NOTES

CURB REMOVAL AND REPLACEMENT LOCATIONS WILL BE DIRECTED BY THE ENGINEER.
QUANTITY MAY INCREASE OR DECREASE BASED ON FIELD DETERMINATION BY ENGINEER.
SEE DETAIL SHEET FOR CLARITY ON THE SCOPE OF THE WORK AND ADJACENT IMPACTS.

NOTES:
1. ALL DISTURBED GREENBELT AREAS TO BE RESTORED.

QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
276	Ft	Curb and Gutter, Rem
1826	Syd	Pavt, Rem, Modified
24	Cyd	Excavation, Earth
4	Ea	Erosion Control, Inlet Protection, Fabric Drop
51	Cyd	Aggregate Base, Conditioning, Surplus and Unsuitable, Rem, LM



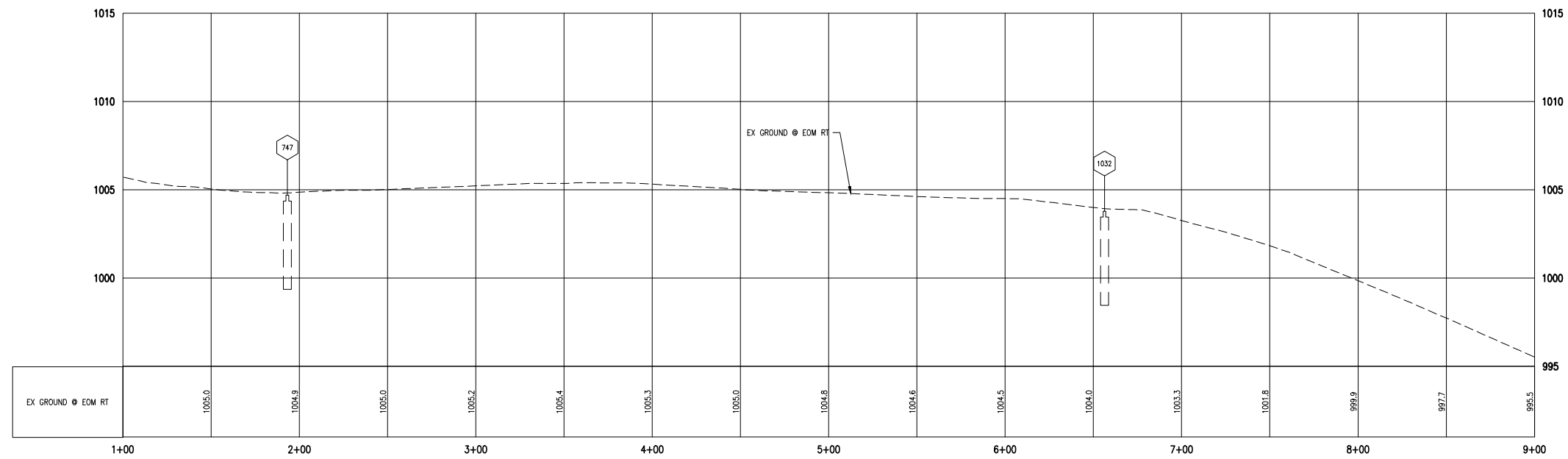
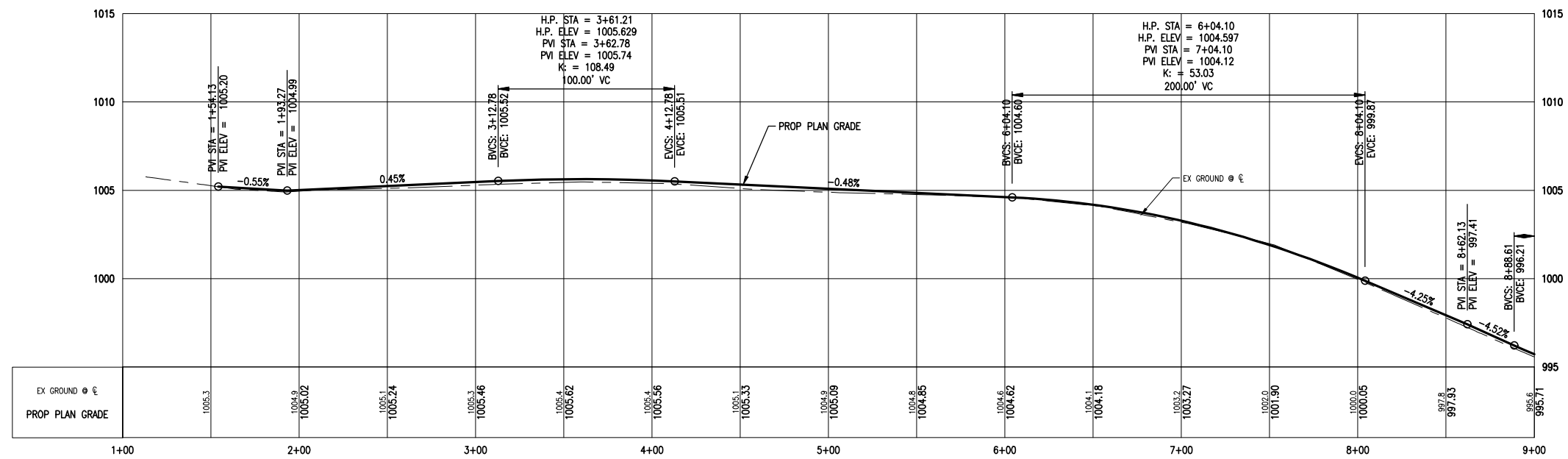
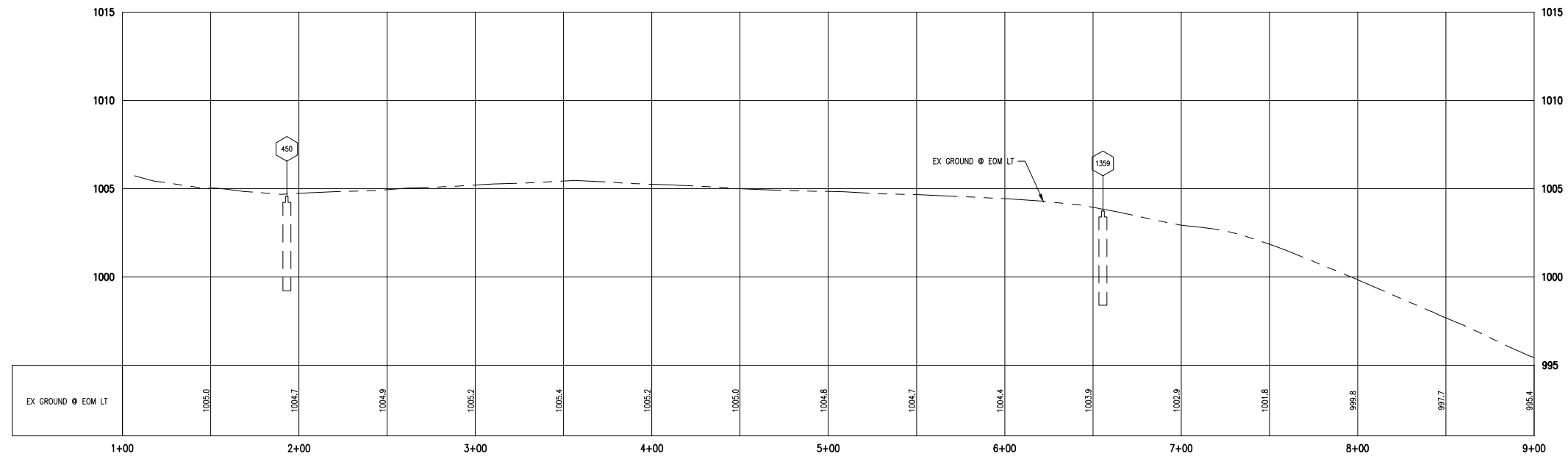
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REVISION	DESCRIPTION	

CITY OF FENTON
2026 LOCAL ROAD PROGRAM
ORCHARDVIEW DR: P.O.B. TO STA 9+00
REMOVAL SHEET

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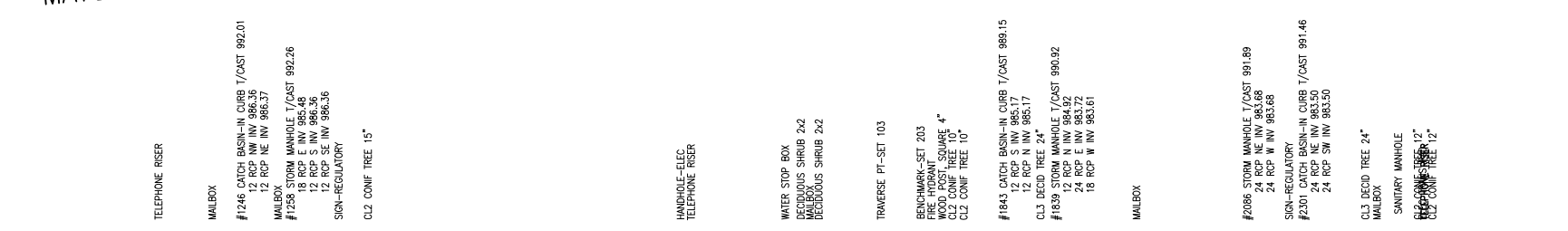
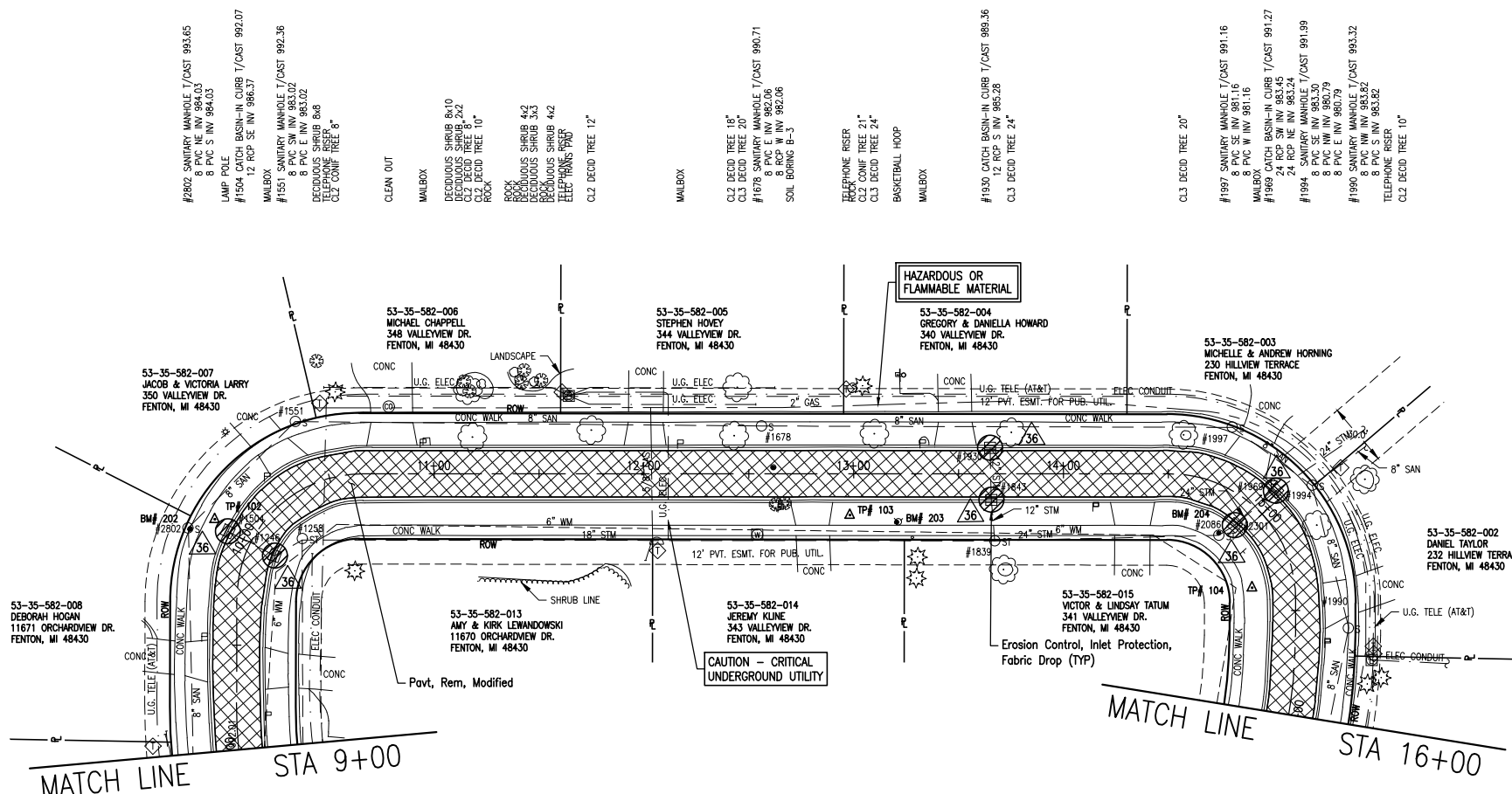
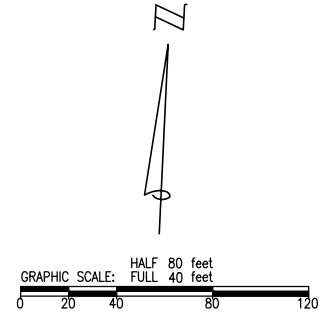
PROFILE SCALE
H: 1" = 40' V: 1" = 4'

ISSUED FOR:	REVISION	DESCRIPTION	DATE
BIDDING			03/25/2026

PROJECT NUMBER: PM-AP-001725-0040
 CITY OF FENTON
 2026 LOCAL ROAD PROGRAM
 ORCHARDVIEW DR. P.O.B. TO STA 9+00
 PROFILE SHEET

JOB BENCHMARK #202 CHISELED "I" ON EAST SIDE OF SANITARY MH RIM. LOCATED ON WEST SIDE OF ORCHARDVIEW DR. NEAREST TO HOUSE ADDRESS #11671. ELEV 993.59	
JOB BENCHMARK #203 ARROW ON FIRE HYDRANT. LOCATED ON SOUTH SIDE OF VALLEYVIEW DR. NEAREST TO HOUSE ADDRESS #343. ELEV 992.35	
JOB BENCHMARK #204 CHISELED "I" ON NORTH RIM OF STORM MH. LOCATED ON SOUTH SIDE OF VALLEYVIEW DR. NEAREST TO HOUSE ADDRESS #341. ELEV 991.88	
TRAVERSE POINT #102 N 469045.26 E 13299258.34 ELEV 992.84	
TRAVERSE POINT #103 N 469061.59 E 13299560.63 ELEV 990.47	
TRAVERSE POINT #104 N 469036.10 E 13299753.84 ELEV 992.80	

VALLEYVIEW DR (60' R.O.W.)



SOIL EROSION LEGEND

- INLET FILTER
- Erosion Control, Inlet Protection, Fabric Drop
- GEOTEXTILE SILT FENCE
- Erosion Control, Silt Fence
- GRADING LIMIT

CURB REMOVAL AND REPLACEMENT NOTES

CURB REMOVAL AND REPLACEMENT LOCATIONS WILL BE DIRECTED BY THE ENGINEER. QUANTITY MAY INCREASE OR DECREASE BASED ON FIELD DETERMINATION BY ENGINEER. SEE DETAIL SHEET FOR CLARITY ON THE SCOPE OF THE WORK AND ADJACENT IMPACTS.

NOTES:
1. ALL DISTURBED GREENBELT AREAS TO BE RESTORED.

QUANTITIES THIS SHEET		
TOTAL	UNIT	DESCRIPTION
192	Ft	Curb and Gutter, Rem
1730	Syd	Pavt, Rem, Modified
20	Cyd	Excavation, Earth
6	Ea	Erosion Control, Inlet Protection, Fabric Drop
50	Cyd	Aggregate Base, Conditioning, Surplus and Unsuitable, Rem, LM



Know what's below.
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ISSUED FOR: BIDDING	03/25/2026	DATE
REVISION		DESCRIPTION

CITY OF FENTON
2026 LOCAL ROAD PROGRAM
VALLEYVIEW DR: STA 9+00 TO STA 16+00
REMOVAL SHEET

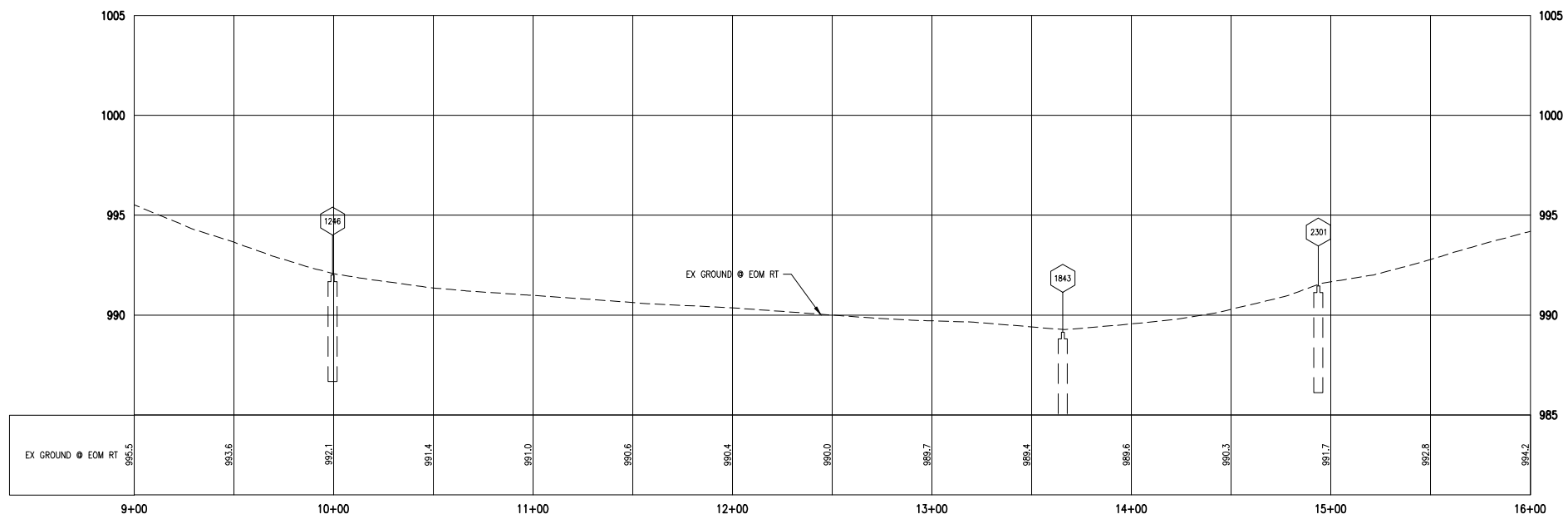
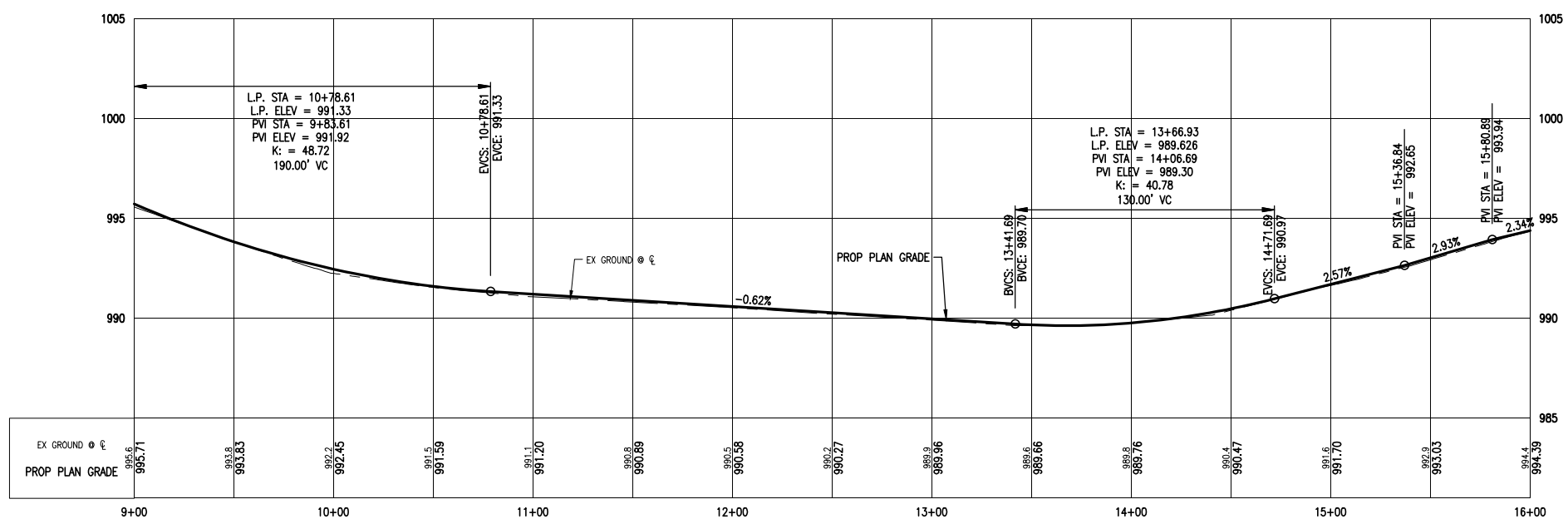
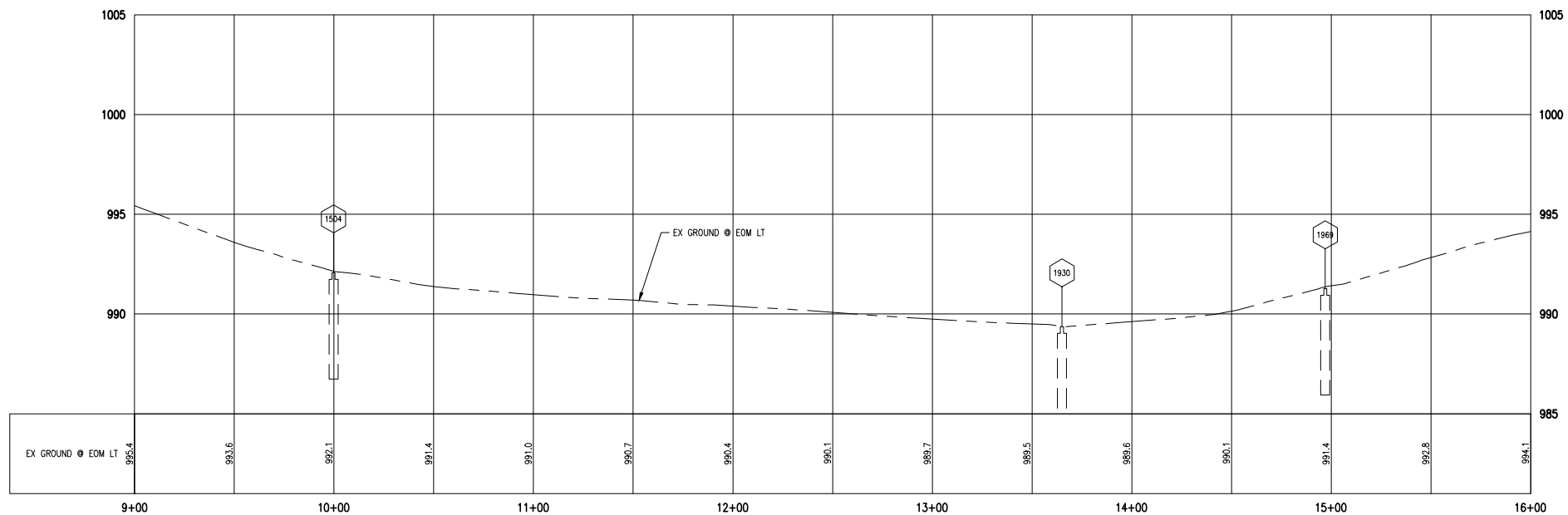
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REVISION	DATE

PROJECT NUMBER: PM-001725-0040-AP
 CITY OF FENTON
 2026 LOCAL ROAD PROGRAM
 VALLEYVIEW DR: STA 9+00 TO STA 16+00
 PROFILE SHEET

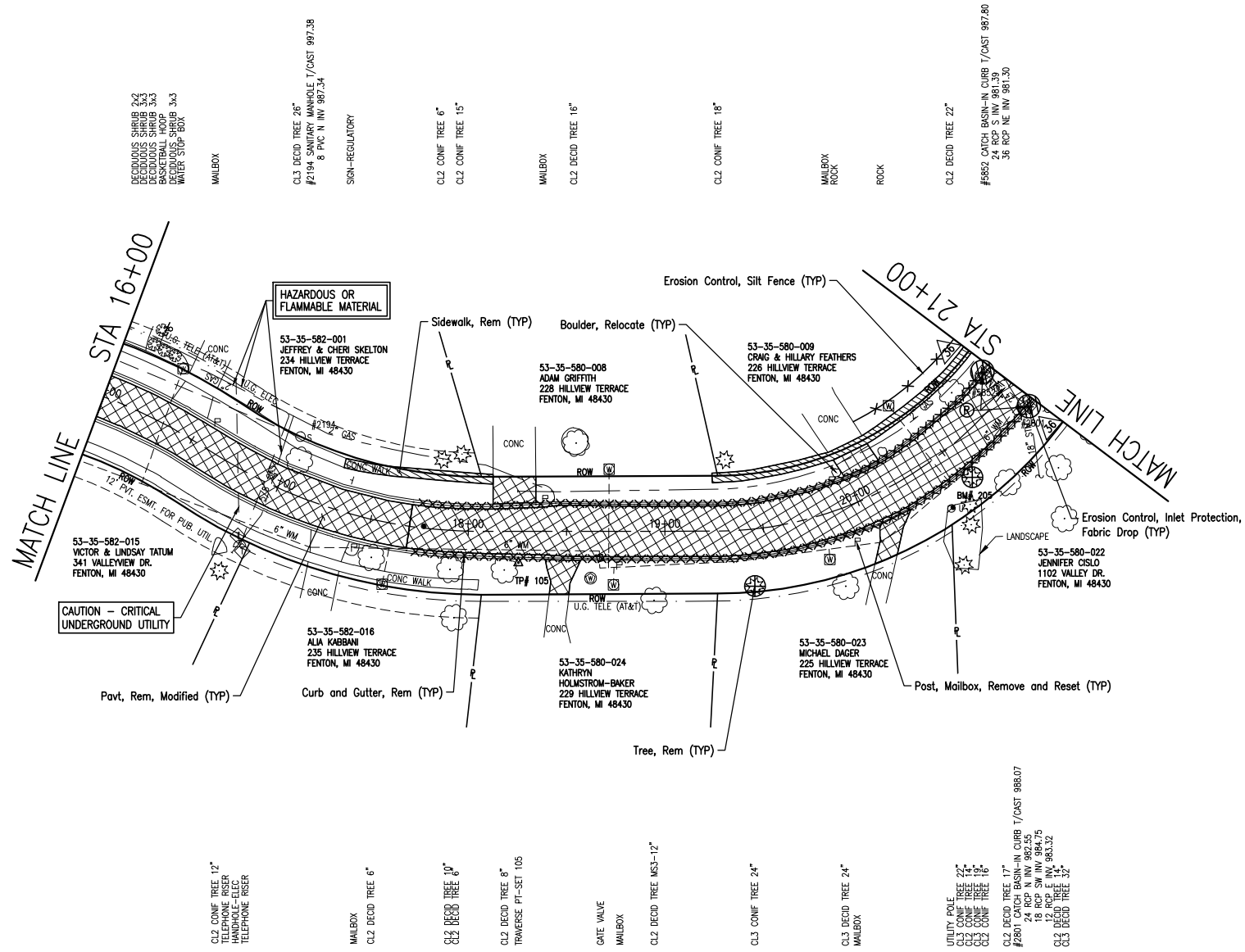
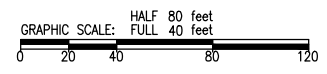
PROFILE SCALE
 H: 1" = 40' V: 1" = 4'

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JOB BENCHMARK #205
 COTTON SPINDLE ON EAST FACE OF
 WOOD GUY POLE, LOCATED ON WEST
 SIDE OF HILLVIEW TER, NEAREST TO
 HOUSE ADDRESS #225.
 ELEV 990.20

TRAVERSE POINT #105
 N 468751.48
 E 13299743.00 ELEV 999.01

HILLVIEW TERRACE (60' R.O.W.)



DRAWING PATH: P:\0000_010107726040_2026_Femke_Local_Road_Program\Drawings_CADD\Sheet\26040REV1.dwg, March 25, 2026, 3:01 AM

SOIL EROSION LEGEND

- INLET FILTER
- Erosion Control, Inlet Protection, Fabric Drop
- GEOTEXTILE SILT FENCE
- Erosion Control, Silt Fence
- GRADING LIMIT

NOTES:
 1. ALL DISTURBED GREENBELT AREAS TO BE RESTORED.

CURB REMOVAL AND REPLACEMENT NOTES

CURB REMOVAL AND REPLACEMENT LOCATIONS WILL BE DIRECTED BY THE ENGINEER. QUANTITY MAY INCREASE OR DECREASE BASED ON FIELD DETERMINATION BY ENGINEER. SEE DETAIL SHEET FOR CLARITY ON THE SCOPE OF THE WORK AND ADJACENT IMPACTS.

QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
1	Ea	Tree, Rem, 19 inch to 36 inch
1	Ea	Tree, Rem, 6 inch to 18 inch
2	Ea	Dr Structure, Rem
26	Ft	Sewer, Rem, Less than 24 inch
38	Ft	Sewer, Rem, 24 inch to 48 inch
708	Ft	Curb and Gutter, Rem
123	Syd	Sidewalk, Rem
1452	Syd	Pavt, Rem, Modified
10	Cyd	Excavation, Earth
2	Ea	Erosion Control, Inlet Protection, Fabric Drop
70	Ft	Erosion Control, Silt Fence
15	Cyd	Aggregate Base, Conditioning, Surplus and Unsuitable, Rem, LM
5	Ea	Post, Mailbox, Remove and Reset
2	Ea	Boulder, Relocate



ISSUED FOR:	DATE
BIDDING	03/25/2026
REVISION	

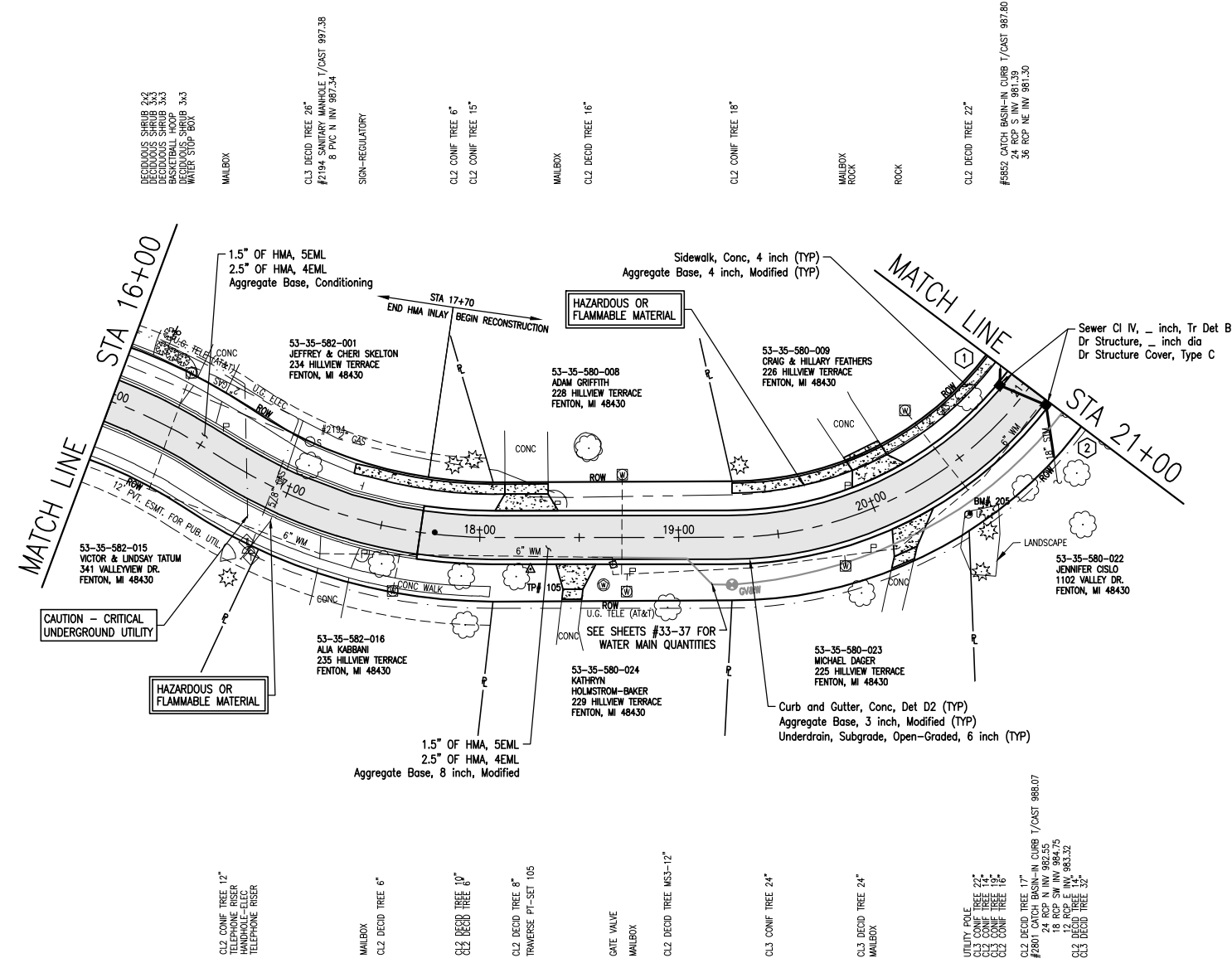
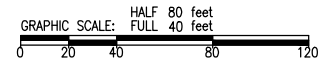
PROJECT NUMBER: 007726-0040
 PM: AP
 CITY OF FENTON
 2026 LOCAL ROAD PROGRAM
 HILLVIEW TERRACE: STA 16+00 TO STA 21+00
 REMOVAL SHEET

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JOB BENCHMARK #205
 COTTON SPINDLE ON EAST FACE OF
 WOOD GUY POLE, LOCATED ON WEST
 SIDE OF HILLVIEW TER, NEAREST TO
 HOUSE ADDRESS #225. ELEV 990.20

TRAVERSE POINT #105
 N 468751.48
 E 13299743.00 ELEV 999.01

HILLVIEW TERRACE (60' R.O.W.)



STORM SEWER STRUCTURE SCHEDULE							
STR. #	DIA.	COVER TYPE	STA.	OFFSET	T/CAST	INVERTS	SUMP
1	60"	C	20+91.29	12.2' L	988.52	24" 981.40 S 36" 981.30 E	2,000
2	48"	C	20+98.10	12.2' R	988.51	12" 983.50 E 24" 982.00 N 18" 984.75 W	2,000

DRIVEWAY SCHEDULE						
ADDRESS	STATION	OFFSET SIDE	EXISTING SLOPE	PROPOSED SLOPE	Driveway, Nonreinforced Conc, 6 inch	Aggregate Base, 4 inch, Modified
			%	%		
228 HILLVIEW TER	18+24	LT	1.9%	2.3%	37	44
229 HILLVIEW TER	18+48	RT	3.2%	3.3%	26	32
226 HILLVIEW TER	20+09	LT	3.7%	3.8%	39	46
225 HILLVIEW TER	20+15	RT	4.5%	2.9%	33	39

QUANTITIES THIS SHEET		
TOTAL	UNIT	DESCRIPTION
10	Cyd	Embankment, CIP
3.3	Sta	Machine Grading, Modified
418	Syd	Aggregate Base, Conditioning
306	Syd	Aggregate Base, 3 inch, Modified
305	Syd	Aggregate Base, 4 inch, Modified
888	Syd	Aggregate Base, 8 inch, Modified
32	Ft	Sewer, CI IV, 18 inch, Tr Det B
26	Ft	Sewer, CI IV, 24 inch, Tr Det B
8	Ft	Sewer, CI IV, 36 inch, Tr Det B
2	Ea	Dr Structure Cover, Type C
1	Ea	Dr Structure, 48 inch dia
1	Ea	Dr Structure, 60 inch dia
4	Ea	Dr Structure, Top, 6 inch
665	Ft	Underdrain, Subgrade, Open-Graded, 6 inch
186	Ton	HMA, 4EML
112	Ton	HMA, 5EML
10	Ft	Crack Sealing, Conc Pavt
135	Syd	Driveway, Nonreinforced Conc, 6 inch
651	Ft	Curb and Gutter, Conc, Det D2
48	Ft	Curb and Gutter, Conc, Det D2, Modified
10	Ft	Detectable Warning Surface
14	Ft	Curb Ramp Opening, Conc
1040	Sft	Sidewalk, Conc, 4 inch
150	Sft	Curb Ramp, Conc, 6 inch



ISSUED FOR: BIDDING
 REVISION: DESCRIPTION

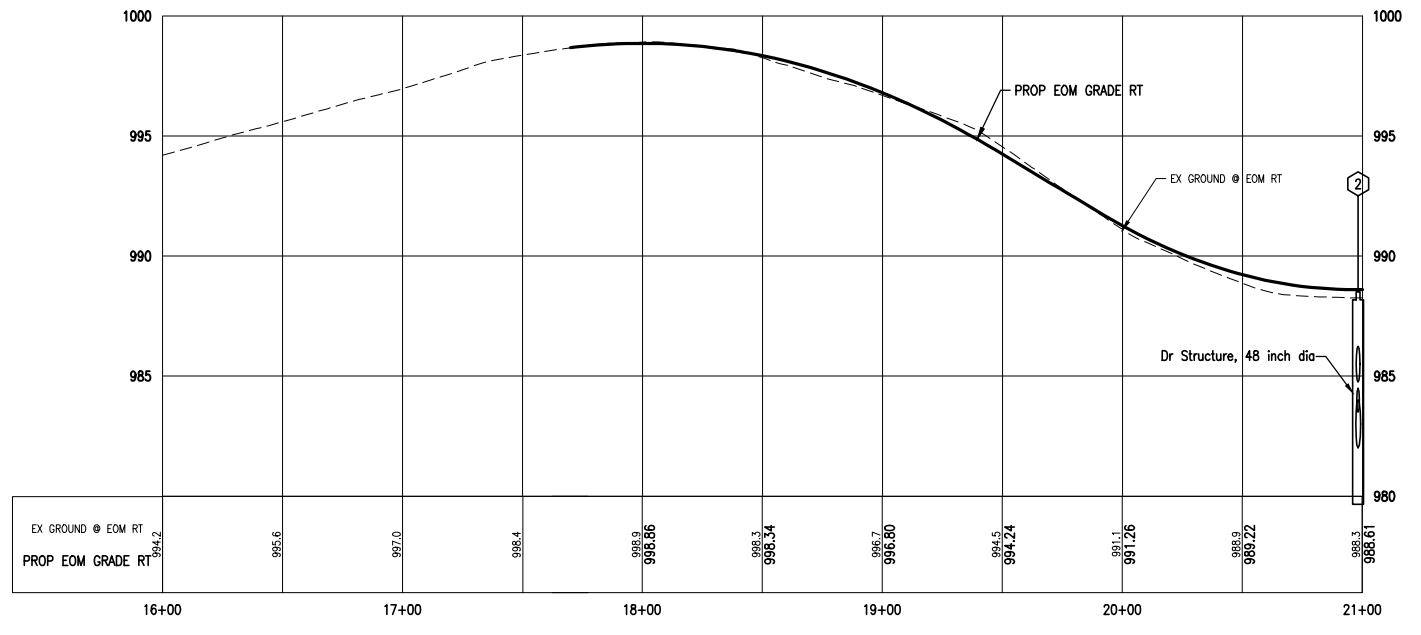
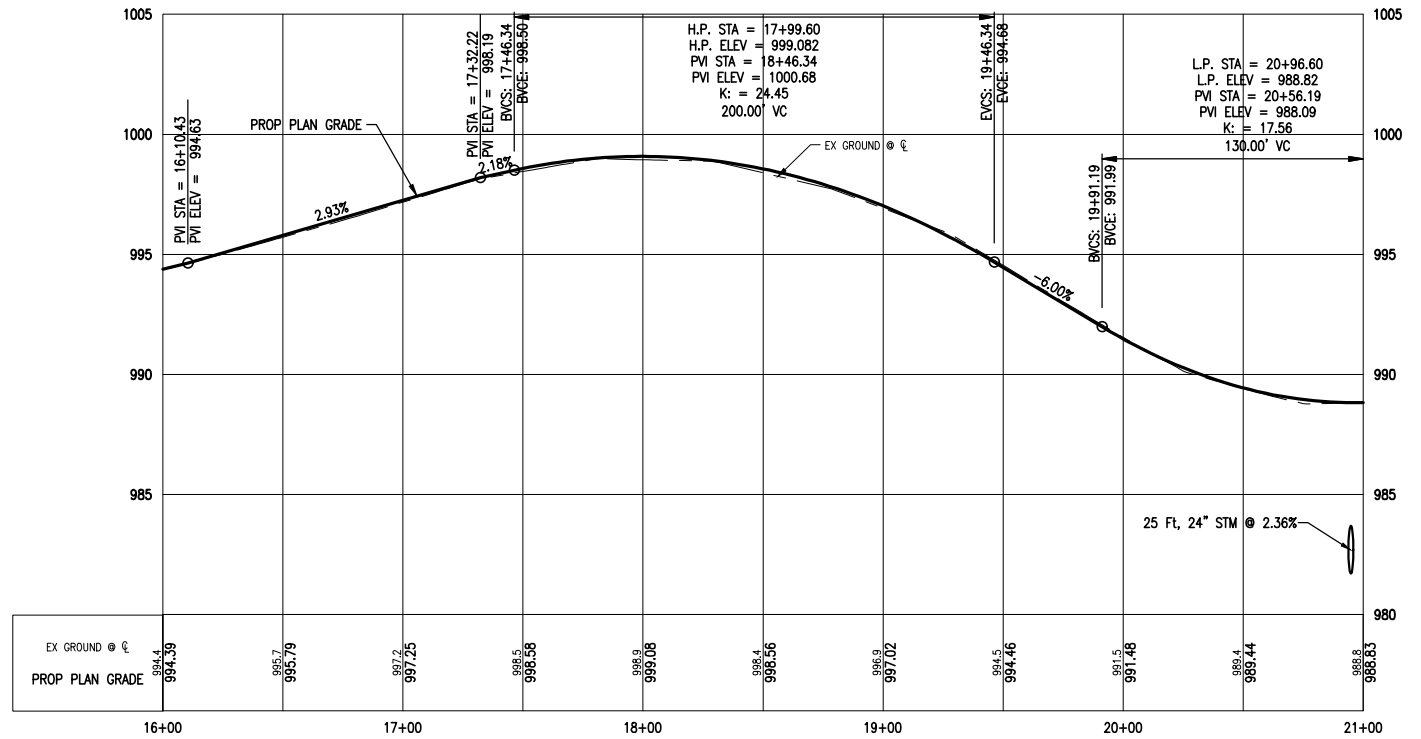
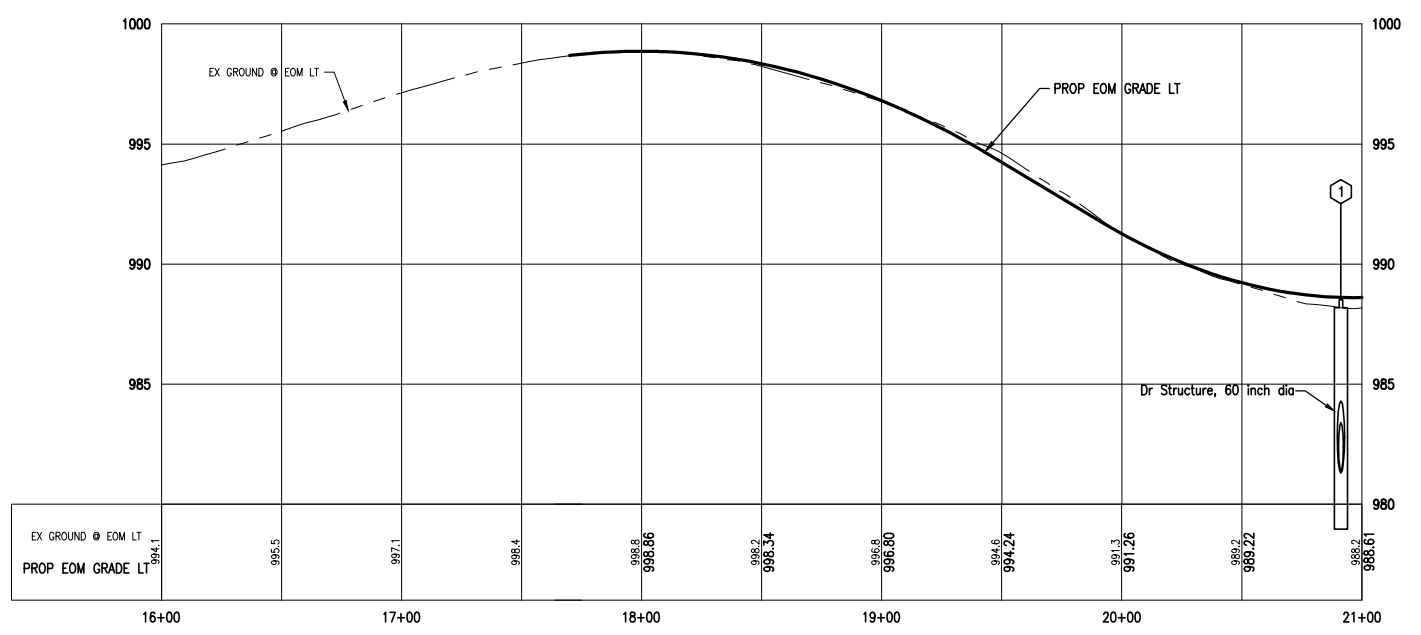
PROJECT NUMBER: 007125-0040
 PM: AP

CITY OF FENTON
 2026 LOCAL ROAD PROGRAM
 HILLVIEW TERRACE: STA 16+00 TO STA 21+00
 CONSTRUCTION SHEET

DRAWING PATH: P:\0000_010107725040_2026_Fenton_Local_Road_Program\Drawings_CADD\Sheets\25040CON_01.dwg, Month: 25, 2026, 3:02 AM

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DRAWING PATH: P:\000_010\07726240_2026_Fenton_Local_Road_Program\Drawings_CADD\Sheets\2026\PRF_01.dwg, March 25, 2025, 3:02 AM



PROFILE SCALE
H: 1" = 40' V: 1" = 4'



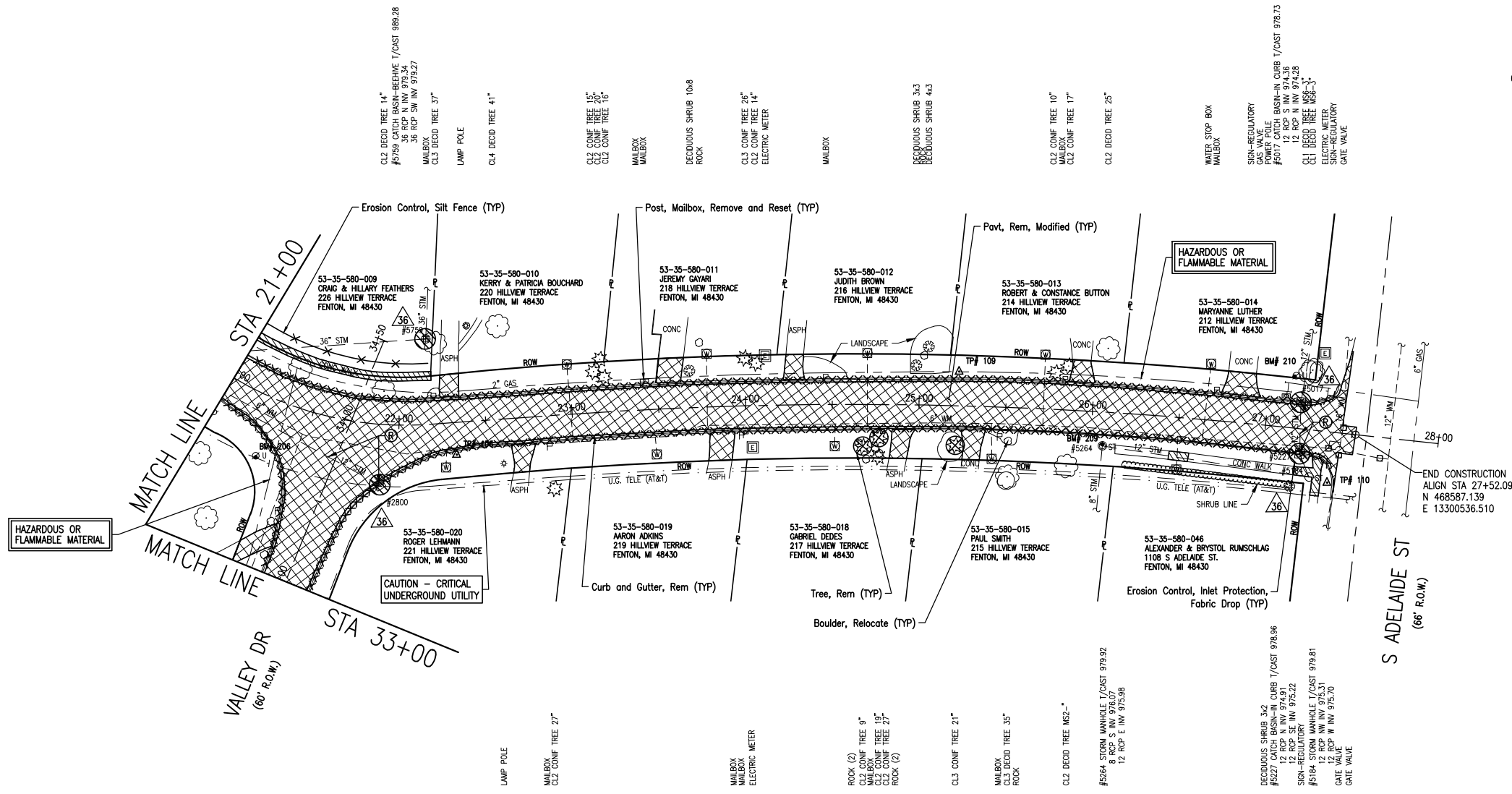
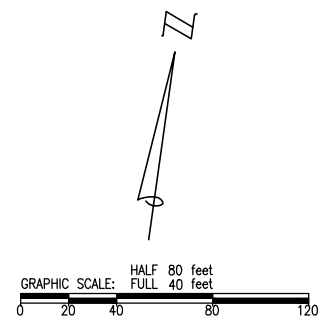
ISSUED FOR:	BIDDING	DATE
REVISION	DESCRIPTION	

CITY OF FENTON
2026 LOCAL ROAD PROGRAM
HILLVIEW TERRACE: STA 16+00 TO STA 21+00
PROFILE SHEET

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JOB BENCHMARK #206 COTTON SPINDLE ON EAST FACE OF WOOD LIGHT POLE. LOCATED ON SW QUAD OF INTERSECTION OF HILLVIEW TER. & VALLEY DR. ELEV 991.09
JOB BENCHMARK #209 CHISELED "T" ON NORTH SIDE OF SANITARY MH RM. LOCATED ON SOUTH SIDE OF HILLVIEW TER. NEAREST TO HOUSE ADDRESS #215. ELEV 979.96
JOB BENCHMARK #210 COTTON SPINDLE ON SOUTH FACE OF WOOD UTILITY POLE. LOCATED ON NW QUAD AT "T" INTERSECTION OF HILLVIEW & ADELAIDE ST. ELEV 980.18
TRAVERSE POINT #106 N 468504.14 E 13300025.27 ELEV 991.72
TRAVERSE POINT #109 N 468591.61 E 13300305.37 ELEV 980.80
TRAVERSE POINT #110 N 468557.54 E 13300524.09 ELEV 980.51

HILLVIEW TERRACE (60' R.O.W.)



SOIL EROSION LEGEND

- INLET FILTER
- Erosion Control, Inlet Protection, Fabric Drop
- GEOTEXTILE SILT FENCE
- Erosion Control, Silt Fence
- GRADING LIMIT

NOTES:
1. ALL DISTURBED GREENBELT AREAS TO BE RESTORED.

QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
2	Ea	Tree, Rem, 19 inch to 36 inch
1	Ea	Tree, Rem, 6 inch to 18 inch
3	Ea	Dr Structure, Rem
164	Ft	Sewer, Rem, Less than 24 inch
1388	Ft	Curb and Gutter, Rem
82	Syd	Sidewalk, Rem
2596	Syd	Pavt, Rem, Modified
4	Ea	Erosion Control, Inlet Protection, Fabric Drop
100	Ft	Erosion Control, Silt Fence
12	Ea	Post, Mailbox, Remove and Reset
5	Ea	Boulder, Relocate
2	Ea	Remove, Salvage, and Replace Landscaping and Lighting



Know what's below.
Call before you dig.

ISSUED FOR: BIDDING	03/25/2026	DATE
REVISION		DESCRIPTION

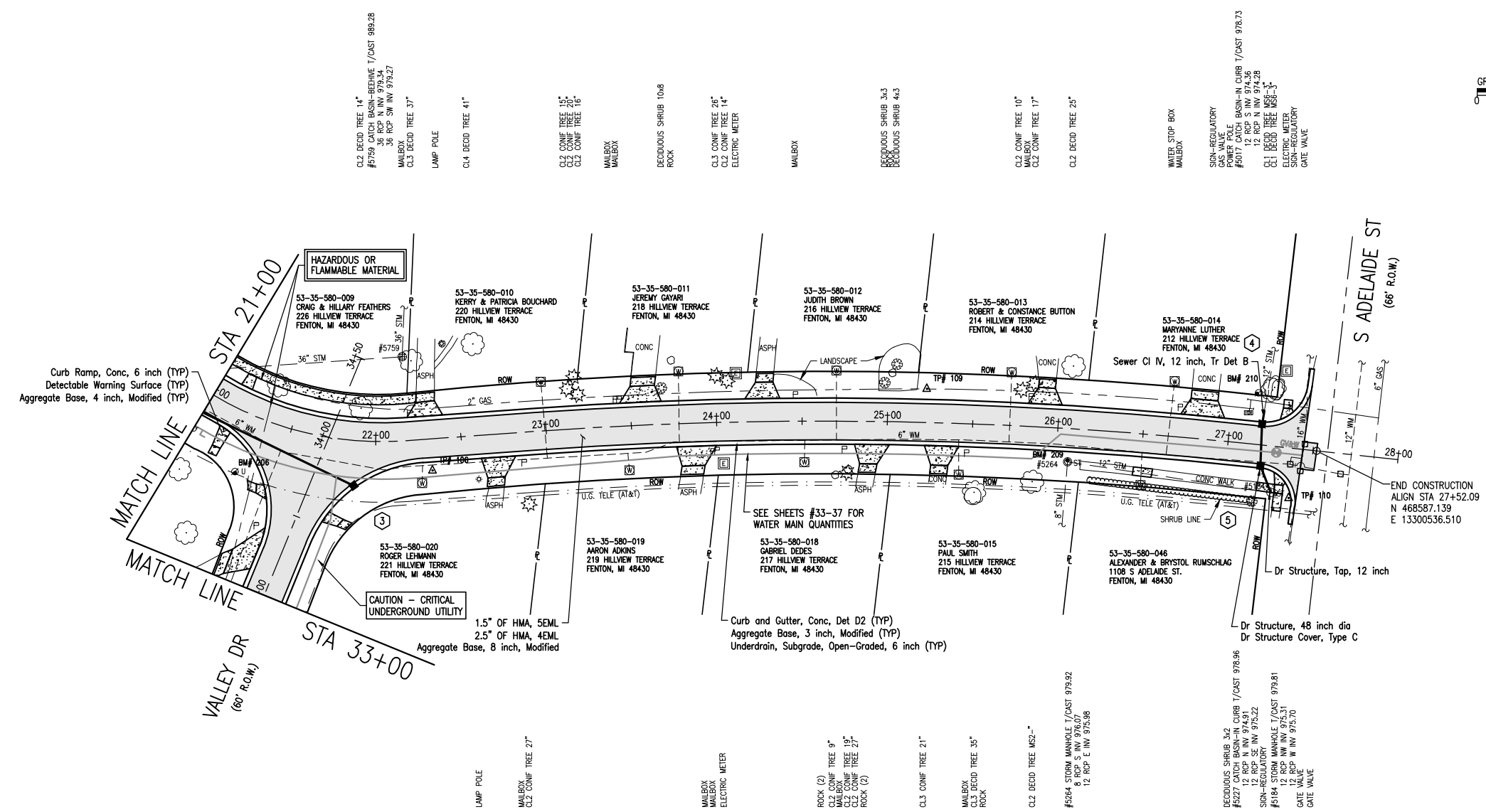
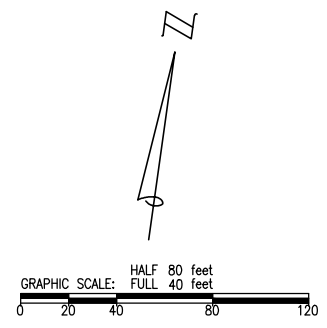
CITY OF FENTON
2026 LOCAL ROAD PROGRAM
HILLVIEW TERRACE: STA 21+00 TO P.O.E.
REMOVAL SHEET

DRAWING PATH: P:\0000_010107726240_2026_Fentons_Local_Road_Program\Drawings_CADD\Sheets\2026\REEL_01.dwg, Month: 25, 2026, 3:02 AM

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JOB BENCHMARK #206 COTTON SPINDLE ON EAST FACE OF WOOD LIGHT POLE. LOCATED ON SW QUAD OF INTERSECTION OF HILLVIEW TER. & VALLEY DR. ELEV 991.09	
JOB BENCHMARK #209 CHISELED "T" ON NORTH SIDE OF SANITARY MH RM. LOCATED ON SOUTH SIDE OF HILLVIEW TER. NEAREST TO HOUSE ADDRESS #215. ELEV 979.96	
JOB BENCHMARK #210 COTTON SPINDLE ON SOUTH FACE OF WOOD UTILITY POLE. LOCATED ON NW QUAD AT "T" INTERSECTION OF HILLVIEW & ADELAIDE ST. ELEV 980.18	
TRAVERSE POINT #106 N 468504.14 E 13300025.27 ELEV 991.72	TRAVERSE POINT #109 N 468591.61 E 13300305.37 ELEV 980.80
TRAVERSE POINT #110 N 468557.54 E 13300524.09 ELEV 980.51	

HILLVIEW TERRACE (60' R.O.W.)



STR. #	DIA.	COVER TYPE	STA.	OFFSET	T/CAST	INVERTS	SUMP
3	24"	C	21+88.94	26.4' R	990.00	12" 985.50 W	2,000
4	24"	C	27+18.70	12.3' L	978.71	12" 974.45 S 12" 974.45 N	2,000
5	24"	C	27+20.30	12.3' R	978.73	12" 974.95 SE 12" 974.95 N	2,000

ADDRESS	STATION	OFFSET SIDE	EXISTING SLOPE	PROPOSED SLOPE	Driveway, Nonreinf Conc, 6 inch		Aggregate Base, 4 inch, Modified	
			%	%	SYD	SYD		
220 HILLVIEW TER	22+30	LT	-0.9%	-3.9%	21	25		
221 HILLVIEW TER	22+71	RT	12.0%	12.2%	25	30		
218 HILLVIEW TER	23+56	LT	-0.7%	-1.6%	28	34		
219 HILLVIEW TER	23+88	RT	8.7%	10.1%	31	37		
216 HILLVIEW TER	24+27	LT	4.0%	2.5%	22	26		
217 HILLVIEW TER	24+91	RT	5.2%	9.8%	25	30		
215 HILLVIEW TER	25+32	RT	8.3%	11.1%	25	30		
214 HILLVIEW TER	25+92	LT	6.4%	1.5%	21	26		
212 HILLVIEW TER	26+84	LT	6.2%	7.5%	31	37		
1102 VALLEY DR	33+22	LT	7.6%	6.5%	40	48		

TOTAL	UNIT	DESCRIPTION
7.5	Sta	Machine Grading, Modified
617	Syd	Aggregate Base, 3 inch, Modified
493	Syd	Aggregate Base, 4 inch, Modified
2165	Syd	Aggregate Base, 8 inch, Modified
50	Syd	Shld, CI II, 4 inch
150	Ft	Sewer, CI IV, 12 inch, Tr Det B
1	Ea	Dr Structure Cover, Type B
3	Ea	Dr Structure Cover, Type C
3	Ea	Dr Structure, 24 inch dia
6	Ea	Dr Structure, Top, 6 inch
1	Ea	Dr Structure, Tap, 12 inch
1	Ea	Stm Structure Cover, Adj
1442	Ft	Underdrain, Subgrade, Open-Graded, 6 inch
298	Ton	HMA, 4EML
179	Ton	HMA, 5EML
271	Syd	Driveway, Nonreinf Conc, 6 inch
1414	Ft	Curb and Gutter, Conc, Det D2
20	Ft	Detectable Warning Surface
28	Ft	Curb Ramp Opening, Conc
610	Sft	Sidewalk, Conc, 4 inch
360	Sft	Curb Ramp, Conc, 6 inch

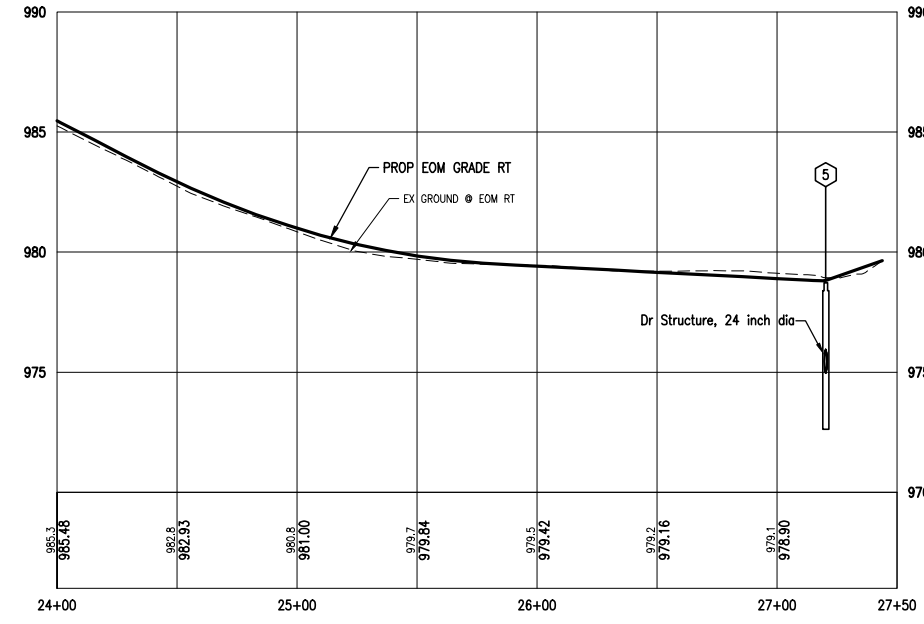
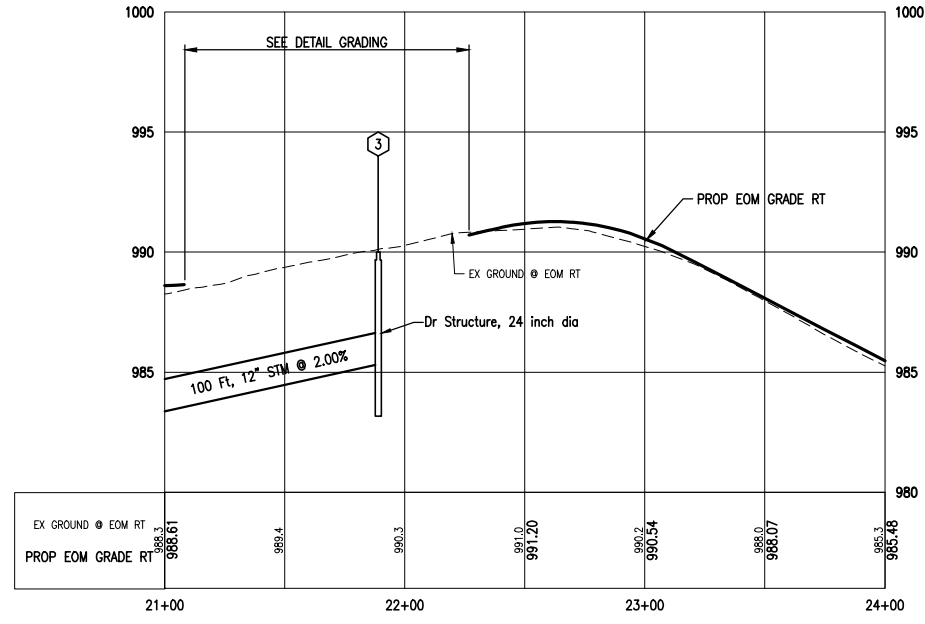
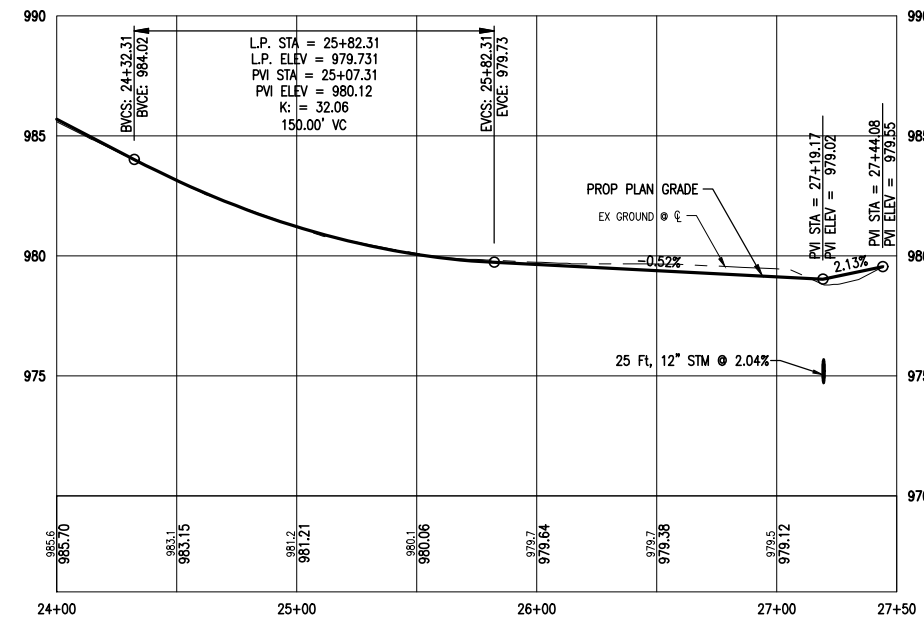
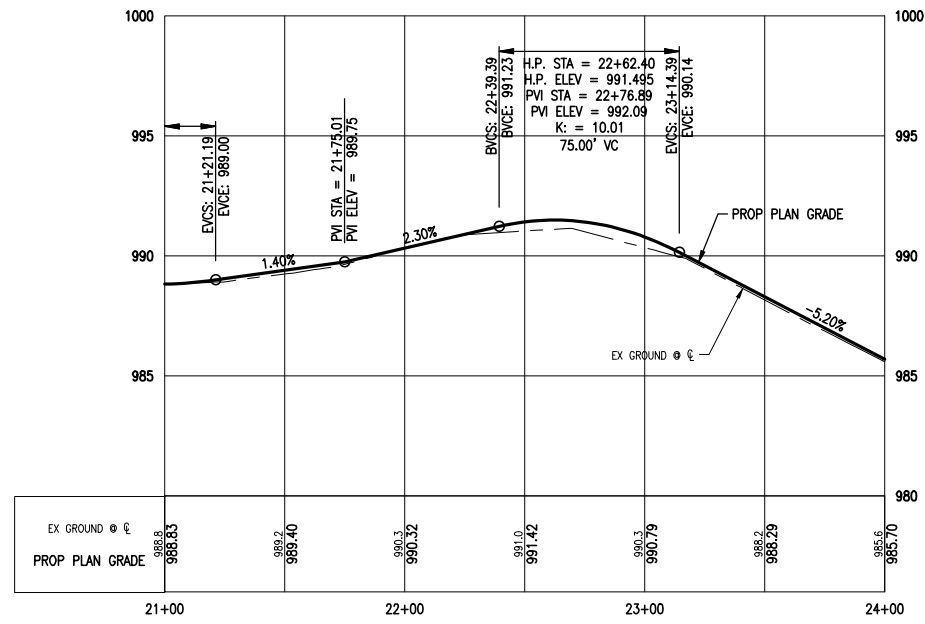
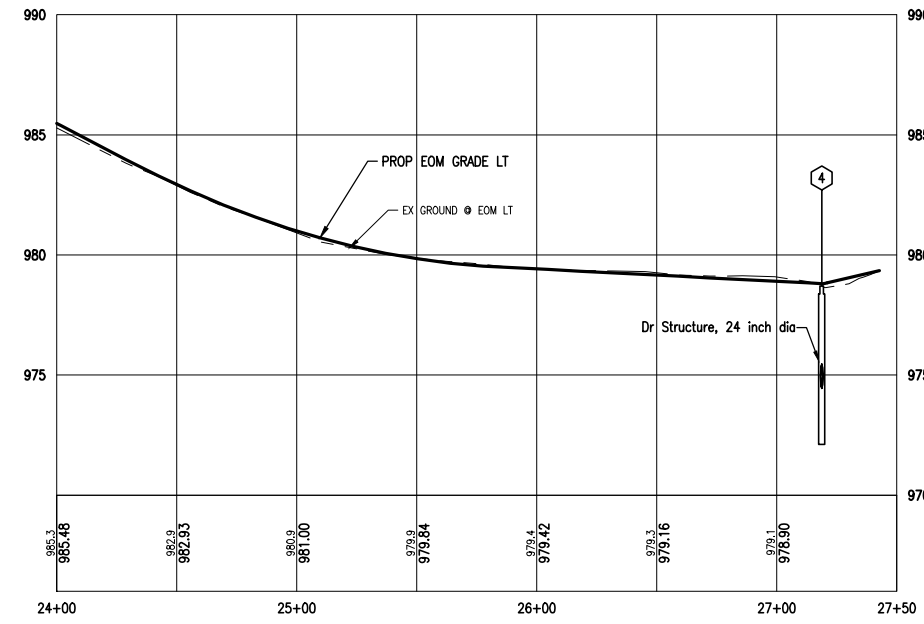
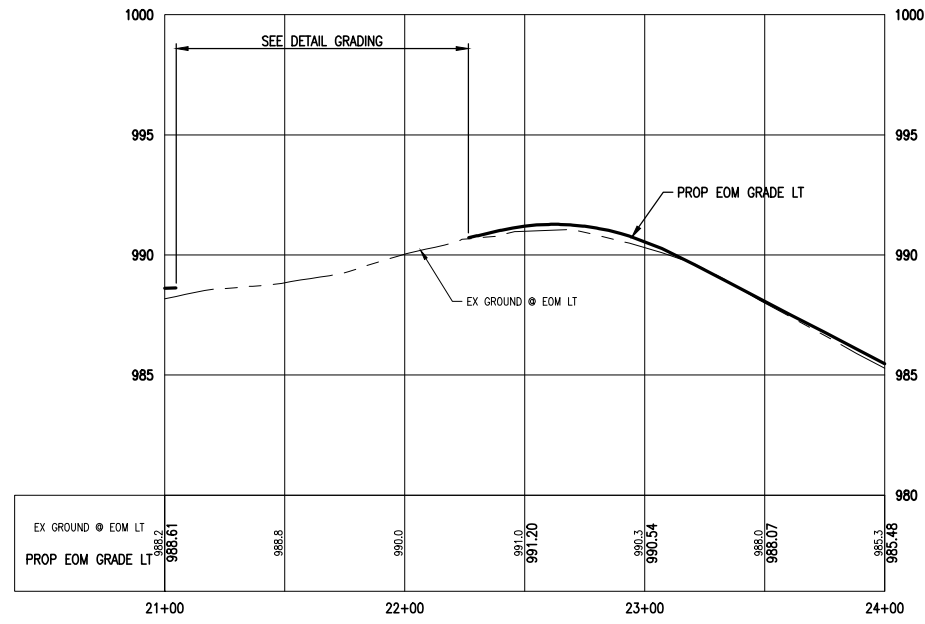


ISSUED FOR: BIDDING	03/25/2026	DATE
REVISION		DESCRIPTION

PROJECT NUMBER: PM-071725-0040
 CITY OF FENTON
 2026 LOCAL ROAD PROGRAM
 HILLVIEW TERRACE: STA 21+00 TO P.O.E.
 CONSTRUCTION SHEET

DRAWING PATH: P:\0000_010107725040_2026_Fenton_Local_Road_Program\Drawings_CADD\Sheets\25040CON_01.dwg, March 25, 2026, 3:03 AM

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ISSUED FOR:	BIDDING	DATE
REVISION	DESCRIPTION	

PROJECT NUMBER: PM-AP-001725-0040
 CITY OF FENTON
 2026 LOCAL ROAD PROGRAM
 HILLVIEW TERRACE: STA 21+00 TO P.O.E.
 PROFILE SHEET

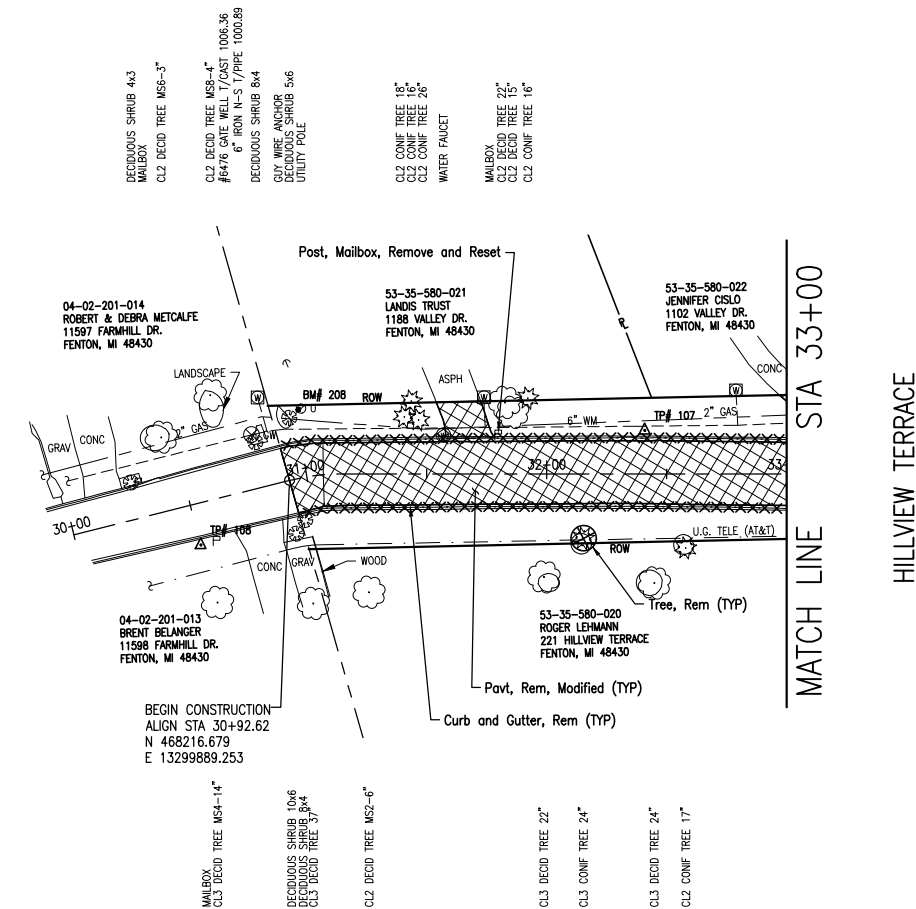
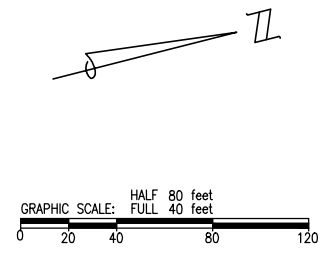
PROFILE SCALE
 H: 1" = 40' V: 1" = 4'

DRAWING PATH: P:\000_010\07725040_2026_Fenton_Local_Road_Program\Drawings_CADD\Sheet\25040PRF_01.dwg, March 25, 2025, 3:03 AM

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JOB BENCHMARK #206 COTTON SPINDLE ON EAST FACE OF WOOD LIGHT POLE, LOCATED ON SW QUAD OF INTERSECTION OF HILLVIEW TER. & VALLEY DR. ELEV 991.09	
JOB BENCHMARK #208 COTTON SPINDLE ON EAST FACE OF WOOD POWER POLE, LOCATED ON WEST SIDE OF FARMHILL DR. NEAREST TO HOUSE ADDRESS #11597. ELEV 1006.51	
TRAVERSE POINT #106 N 468504.14 E 13300025.27 ELEV 991.72	
TRAVERSE POINT #107 N 468365.18 E 13299905.60 ELEV 996.98	
TRAVERSE POINT #108 N 468174.18 E 13299906.22 ELEV 1007.07	

VALLEY DRIVE (60' R.O.W.)



SOIL EROSION LEGEND

- INLET FILTER
- Erosion Control, Inlet Protection, Fabric Drop
- GEOTEXTILE SILT FENCE
- Erosion Control, Silt Fence
- GRADING LIMIT

NOTES:
1. ALL DISTURBED GREENBELT AREAS TO BE RESTORED.

QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
1	Ea	Tree, Rem, 19 inch to 36 inch
2	Ea	Tree, Rem, 6 inch to 18 inch
415	Ft	Curb and Gutter, Rem
637	Syd	Pavt, Rem, Modified
1	Ea	Post, Mailbox, Remove and Reset
2	Ea	Remove, Salvage, and Replace Landscaping and Lighting



ISSUED FOR: BIDDING	03/25/2026
REVISION: DESCRIPTION	DATE

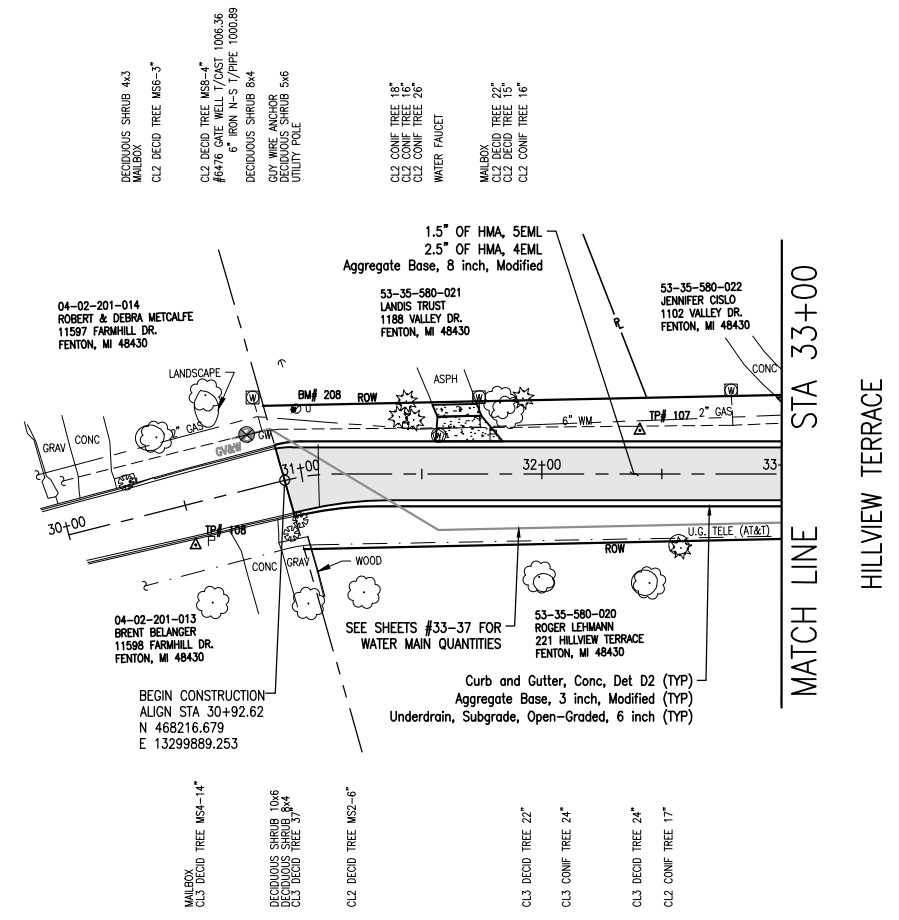
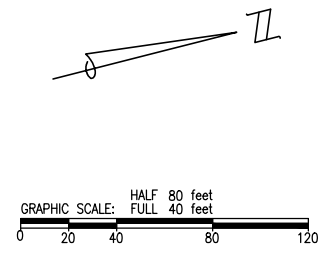
CITY OF FENTON
2026 LOCAL ROAD PROGRAM
VALLEY DR. P.O.B. TO P.O.E.
REMOVAL SHEET

DRAWING PATH: P:\0000_010107726240_2026_Fenton_Local_Road_Program\Drawings_CADD\Sheets\2604REMOV_01.dwg, March 25, 2026 - 3:03 AM

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JOB BENCHMARK #206 COTTON SPINDLE ON EAST FACE OF WOOD LIGHT POLE. LOCATED ON SW QUAD OF INTERSECTION OF HILLVIEW TER. & VALLEY DR. ELEV 991.09	
JOB BENCHMARK #208 COTTON SPINDLE ON EAST FACE OF WOOD POWER POLE. LOCATED ON WEST SIDE OF FARMHILL DR. NEAREST TO HOUSE ADDRESS #11597. ELEV 1006.51	
TRAVERSE POINT #106 N 468504.14 E 13300025.27 ELEV 991.72	
TRAVERSE POINT #107 N 468365.18 E 13299905.60 ELEV 996.98	
TRAVERSE POINT #108 N 468174.18 E 13299906.22 ELEV 1007.07	

VALLEY DRIVE (60' R.O.W.)



QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
2.1	Sto	Machine Grading, Modified
180	Syd	Aggregate Base, 3 inch, Modified
45	Syd	Aggregate Base, 4 inch, Modified
568	Syd	Aggregate Base, 8 inch, Modified
420	Ft	Underdrain, Subgrade, Open-Graded, 6 inch
79	Ton	HMA, 5EML
47	Ton	HMA, 4EML
38	Syd	Driveway, Nonreinf Conc, 6 inch
420	Ft	Curb and Gutter, Conc, Det D2

ADDRESS	STATION	OFFSET SIDE	DRIVEWAY SCHEDULE		Driveway, Nonreinf Conc, 6 inch	Aggregate Base, 4 inch, Modified
			EXISTING SLOPE %	PROPOSED SLOPE %		
1188 VALLEY DR	31+70	LT	-1.0%	1.4%	37	45



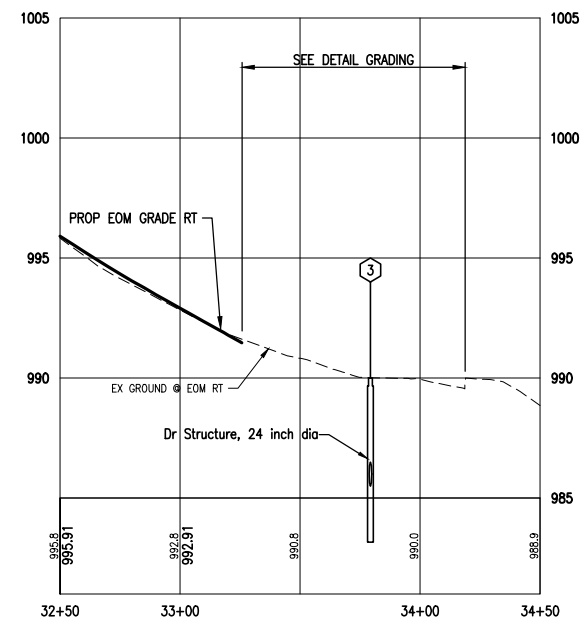
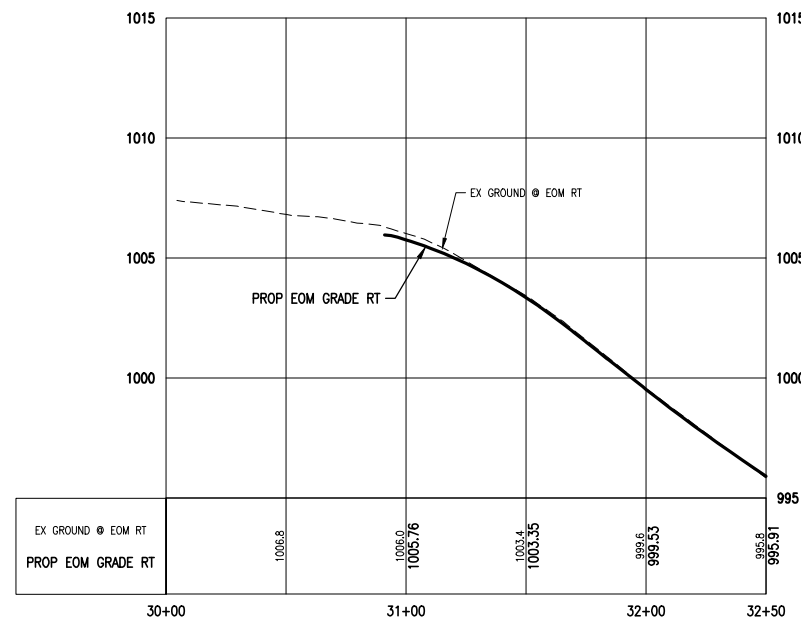
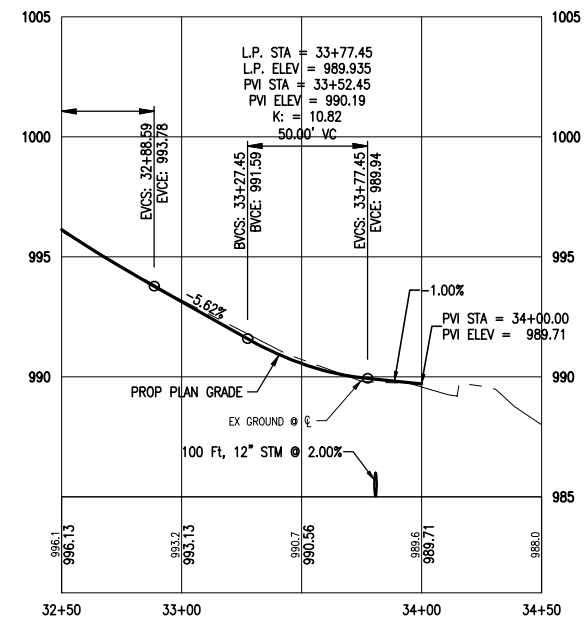
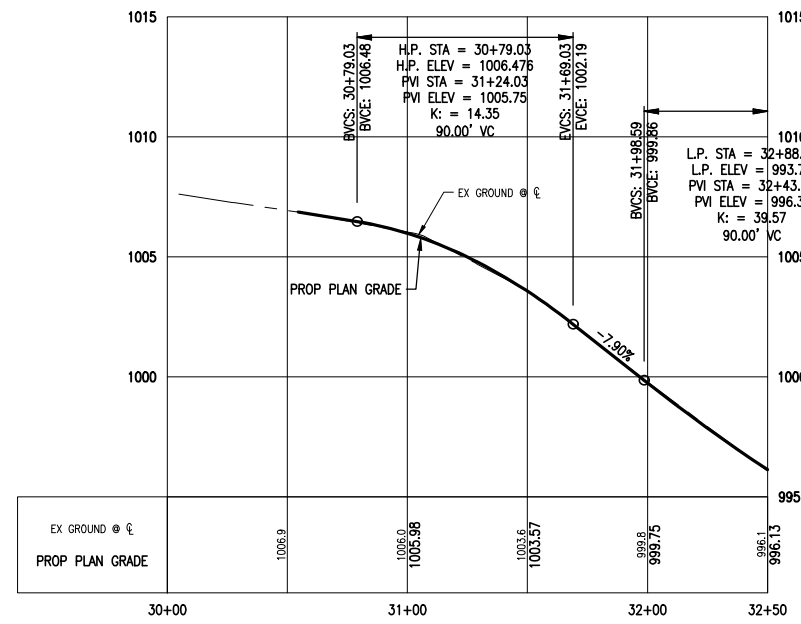
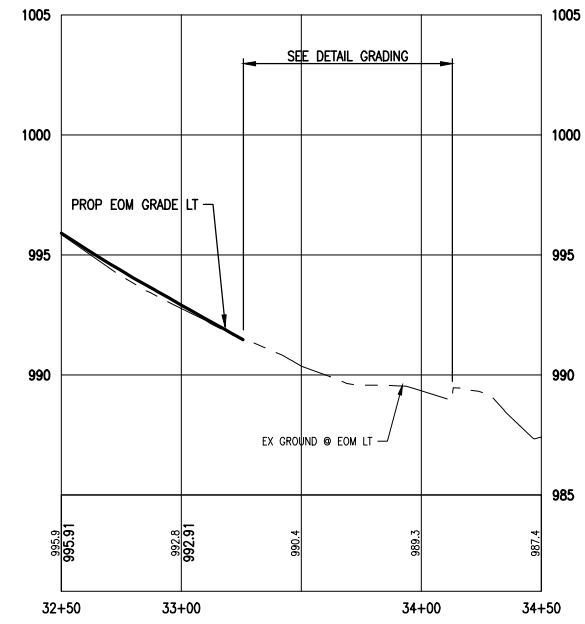
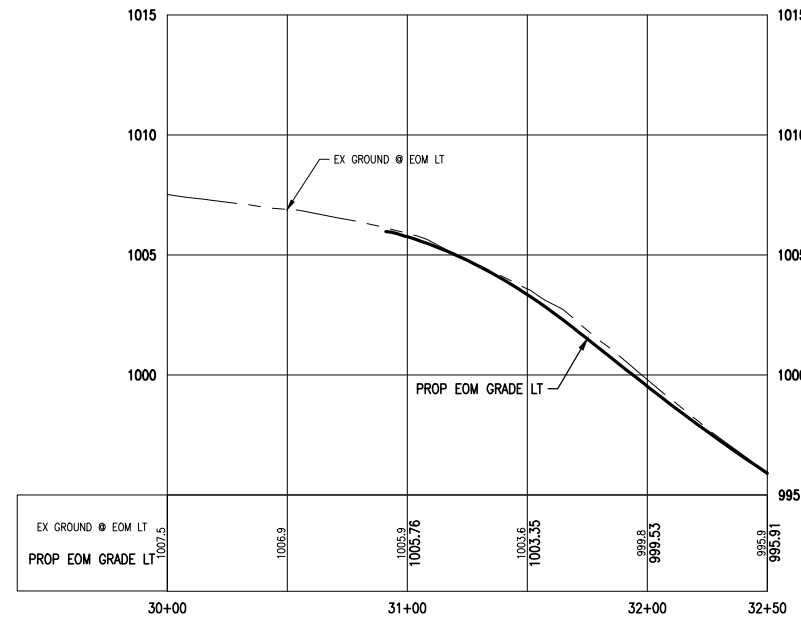
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ISSUED FOR: BIDDING	03/25/2026
REVISION: DESCRIPTION	DATE

CITY OF FENTON
2026 LOCAL ROAD PROGRAM
VALLEY DR. P.O.B. TO P.O.E.
CONSTRUCTION SHEET

DRAWING PATH: P:\000_010107725040_2026_Fenton_Local_Road_Program\Drawings_CADD\Sheets\25040CON_01.dwg, March 25, 2026 - 3:04 AM

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PROFILE SCALE
H: 1" = 40' V: 1" = 4'

ISSUED FOR:	BIDDING
REVISION:	DESCRIPTION
PROJECT NUMBER:	0071725-0040
PI:	AP
DATE:	03/25/2026

CITY OF FENTON
2026 LOCAL ROAD PROGRAM
VALLEY DR. P.O.B. TO P.O.E.
PROFILE SHEET

DRAWING PATH: P:\000_010\07726040_2026_Fenton_Local_Road_Program\Drawings_CADD\Sheets\2026\PRF_01.dwg, March 25, 2025, 3:04 AM

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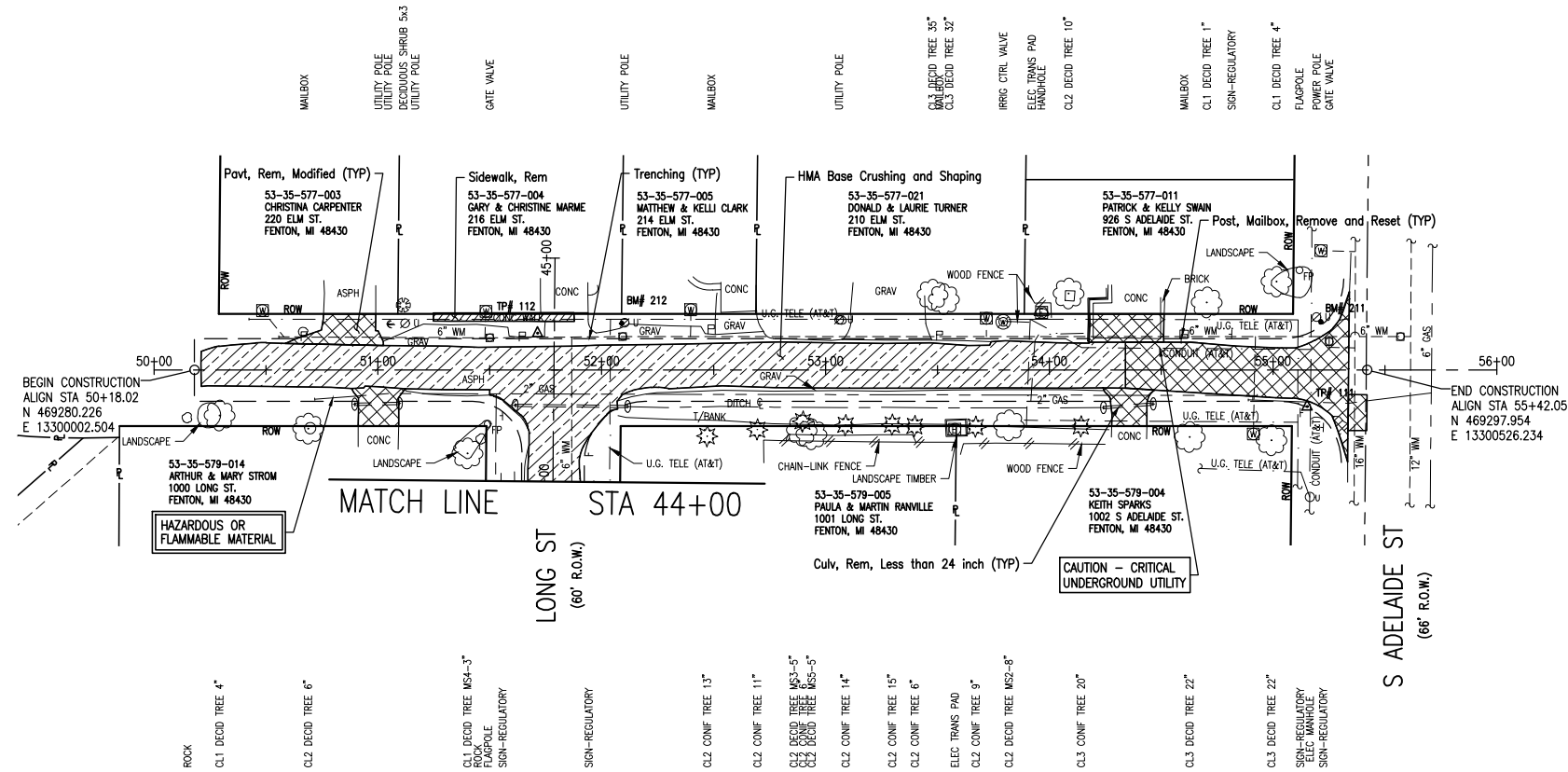
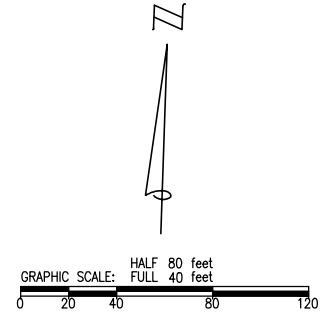
JOB BENCHMARK #211
COTTON SPINDLE ON SOUTH FACE OF
WOOD UTILITY POLE. LOCATED ON NW
QUAD OF INTERSECTION AT ELM &
ADELAIDE. ELEV 967.67

JOB BENCHMARK #212
COTTON SPINDLE ON SOUTH FACE OF
WOOD UTILITY POLE. LOCATED ON
NORTH SIDE OF INTERSECTION AT ELM
& LONG ST. NEAREST TO HOUSE
ADDRESS #214. ELEV 979.94

TRAVERSE POINT #111
N 469280.66
E 13300500.00 ELEV 968.38

TRAVERSE POINT #112
N 468301.79
E 13300155.14 ELEV 980.66

ELM ST (50' R.O.W.)



SOIL EROSION LEGEND

- INLET FILTER
- Erosion Control, Inlet Protection, Fabric Drop
- GEOTEXTILE SILT FENCE
- Erosion Control, Silt Fence
- GRADING LIMIT

NOTES:
1. ALL DISTURBED GREENBELT AREAS TO BE RESTORED.

QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
3	Ea	Culv, Rem, Less than 24 inch
27	Syd	Sidewalk, Rem
573	Syd	Pavt, Rem, Modified
1454	Syd	HMA Base Crushing and Shaping
9.1	Sta	Trenching
5	Ea	Post, Mailbox, Remove and Reset
1	Ea	Remove, Salvage, and Replace Landscaping and Lighting



Know what's below.
Call before you dig.

ISSUED FOR: BIDDING	03/25/2026
REVISION: DESCRIPTION	DATE

CITY OF FENTON
2026 LOCAL ROAD PROGRAM
ELM ST: P.O.B. TO P.O.E.
REMOVAL SHEET

DRAWING PATH: P:\0000_010\07725040_2026_Fentons_Local_Road_Program\Drawings_CADD\Sheet\25040REVL_02.dwg, March 25, 2026, 3:04 AM

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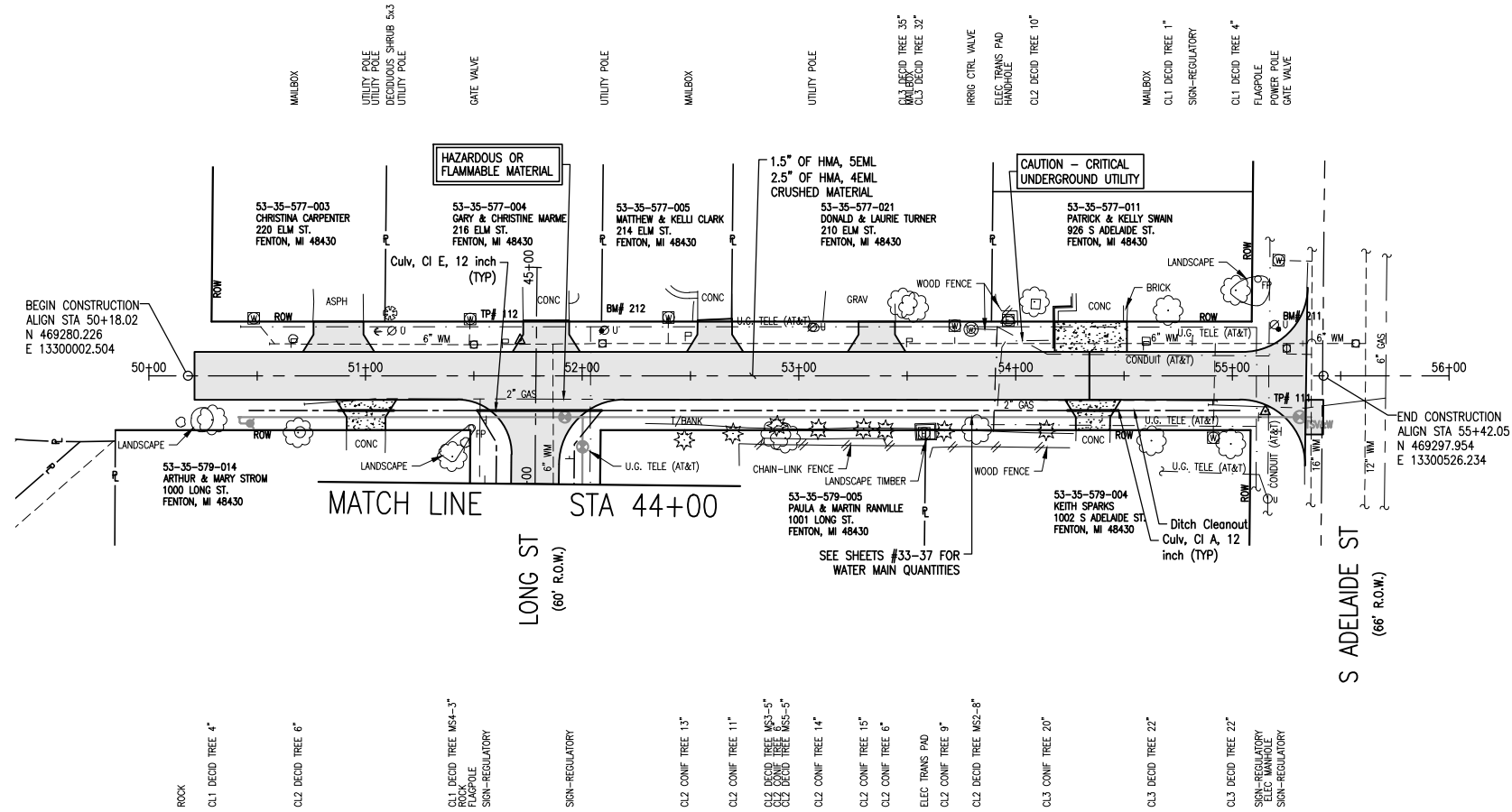
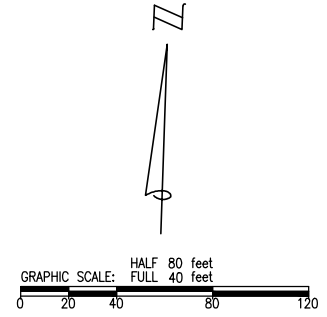
JOB BENCHMARK #211
COTTON SPINDLE ON SOUTH FACE OF
WOOD UTILITY POLE. LOCATED ON NW
QUAD OF INTERSECTION AT ELM &
ADELAIDE. ELEV 967.67

JOB BENCHMARK #212
COTTON SPINDLE ON SOUTH FACE OF
WOOD UTILITY POLE. LOCATED ON
NORTH SIDE OF INTERSECTION AT ELM
& LONG ST. NEAREST TO HOUSE
ADDRESS #214. ELEV 979.94

TRAVERSE POINT #111
N 469280.66
E 13300500.00 ELEV 968.38

TRAVERSE POINT #112
N 469301.79
E 13300155.14 ELEV 980.66

ELM ST (50' R.O.W.)



PIPE NUMBER	DIA.	LENGTH (FT)	BEGIN STA	BEGIN INVERT	END STATION	END INVERT	SLOPE
CULV 1	12"	26	50+87.42	980.20	51+13.07	979.90	1.17%
CULV 2	12"	58	51+51.48	979.20	52+09.07	978.60	1.04%
CULV 3	12"	24	54+23.94	969.40	54+47.49	969.00	1.70%

ADDRESS	STATION	OFFSET SIDE	EXISTING SLOPE	PROPOSED SLOPE	Driveway, Nonrein Conc, 6 inch	HMA Approach	Aggregate Base, Modified
			%	%			
220 ELM ST	50+88	LT	-0.1%	-0.9%	-	9	7
1000 LONG ST	51+00	RT	10.9%	11.1%	32	-	6
216 ELM ST	51+83	LT	-2.1%	-2.7%	-	9	7
214 ELM ST	52+61	LT	0.5%	-2.0%	-	7	5
210 ELM ST	53+28	LT	-6.0%	-7.4%	-	7	5
926 S ADELAIDE ST	54+35	LT	-4.3%	-7.3%	52	-	9
1002 S ADELAIDE ST	54+36	RT	16.5%	18.5%	29	-	5

TOTAL	UNIT	DESCRIPTION
5	Sta	Ditch Cleanout
30	Ton	Aggregate Base
302	Syd	Aggregate Base, 8 Inch, Modified
50	Syd	Shld, Cl II, 4 inch
50	Ft	Culv, Cl A, 12 inch
58	Ft	Culv, Cl E, 12 inch
35	Ton	HMA Approach
219	Ton	HMA, 4EML
131	Ton	HMA, 5EML
114	Syd	Driveway, Nonrein Conc, 6 inch



ISSUED FOR: BIDDING
REVISION: DESCRIPTION

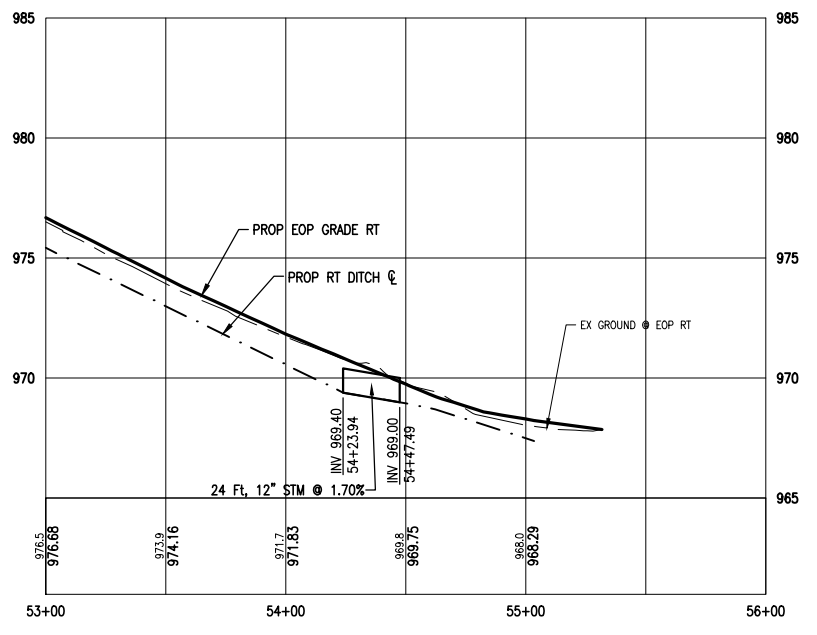
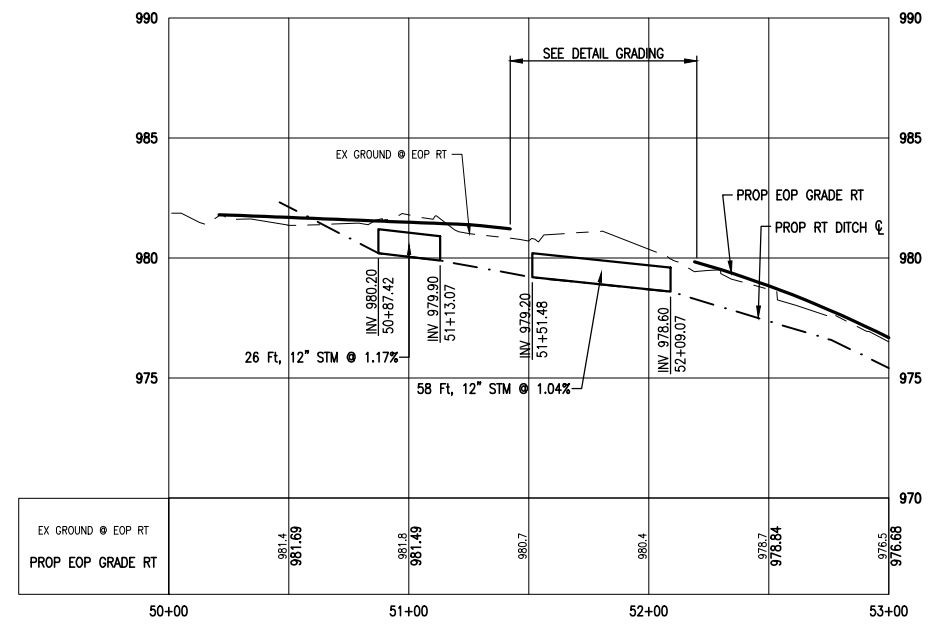
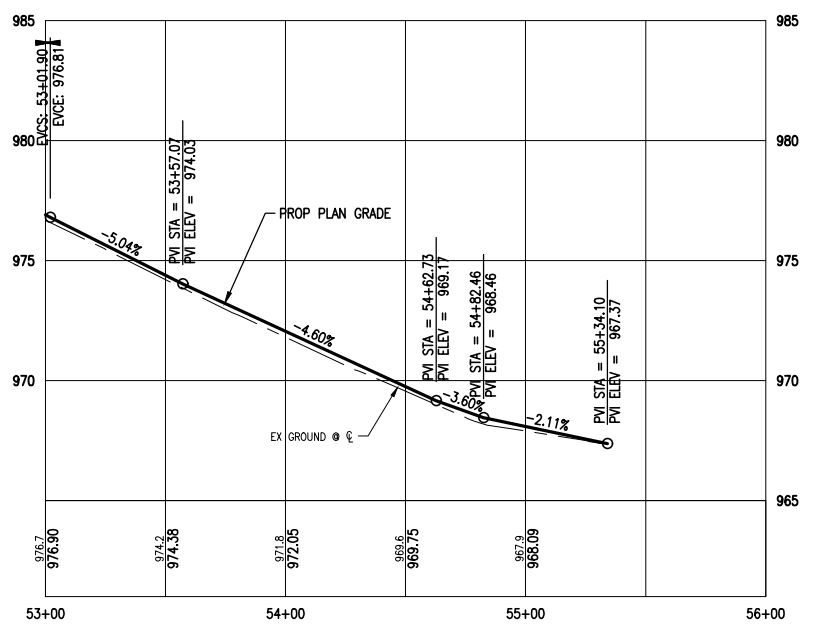
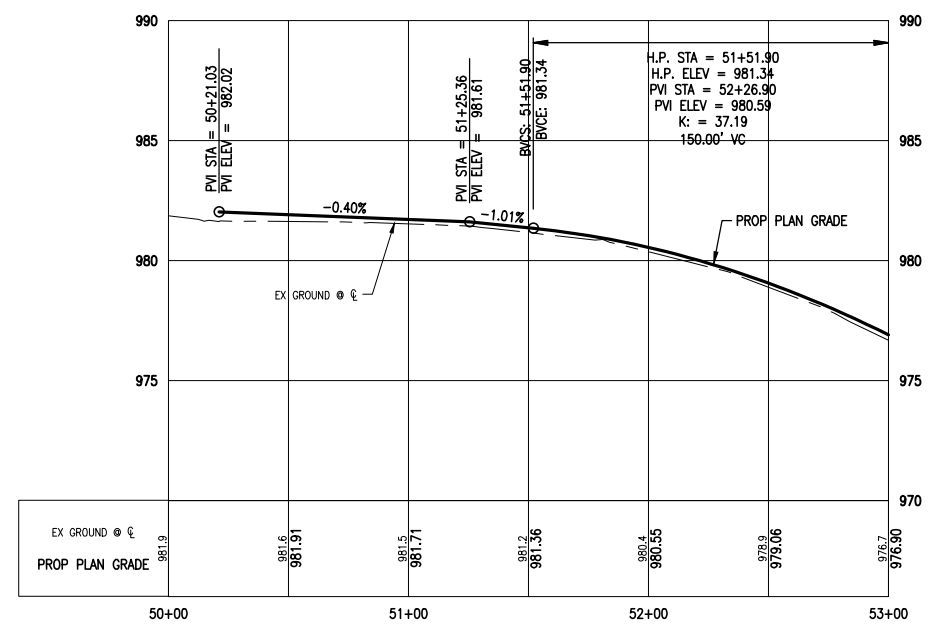
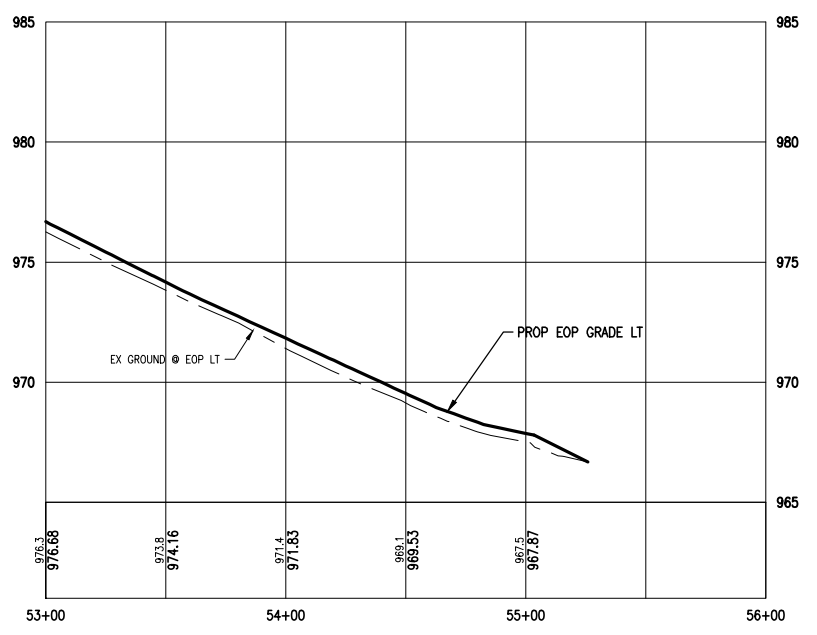
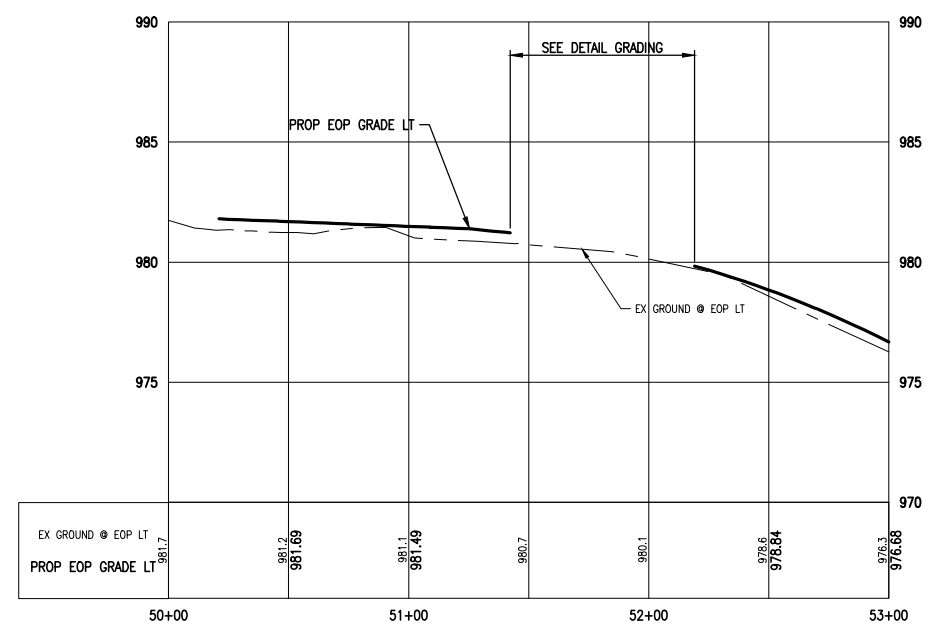
PROJECT NUMBER: 007125-0040
DATE: 03/25/2026

CITY OF FENTON
2026 LOCAL ROAD PROGRAM
ELM ST: P.O.B. TO P.O.E.
CONSTRUCTION SHEET

DRAWING PATH: P:\0000_010107725040_2026_Fentons_Local_Road_Program\Drawings_CADD\Sheets\25040CON_02.dwg, March 25, 2026, 3:04 AM

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DRAWING PATH: P:\000_010\07726940_2026_Fenton_Local_Road_Program\Drawings_CADD\Sheets\2604PRF_02.dwg, March 25, 2026 - 3:05 AM



PROFILE SCALE
H: 1" = 40' V: 1" = 4'

ISSUED FOR:	BIDDING	03/25/2026	DATE
REVISION	DESCRIPTION		

PROJECT NUMBER: PM AP
007726-000

CITY OF FENTON
2026 LOCAL ROAD PROGRAM
ELM ST: P.O.B. TO P.O.E.

PROFILE SHEET

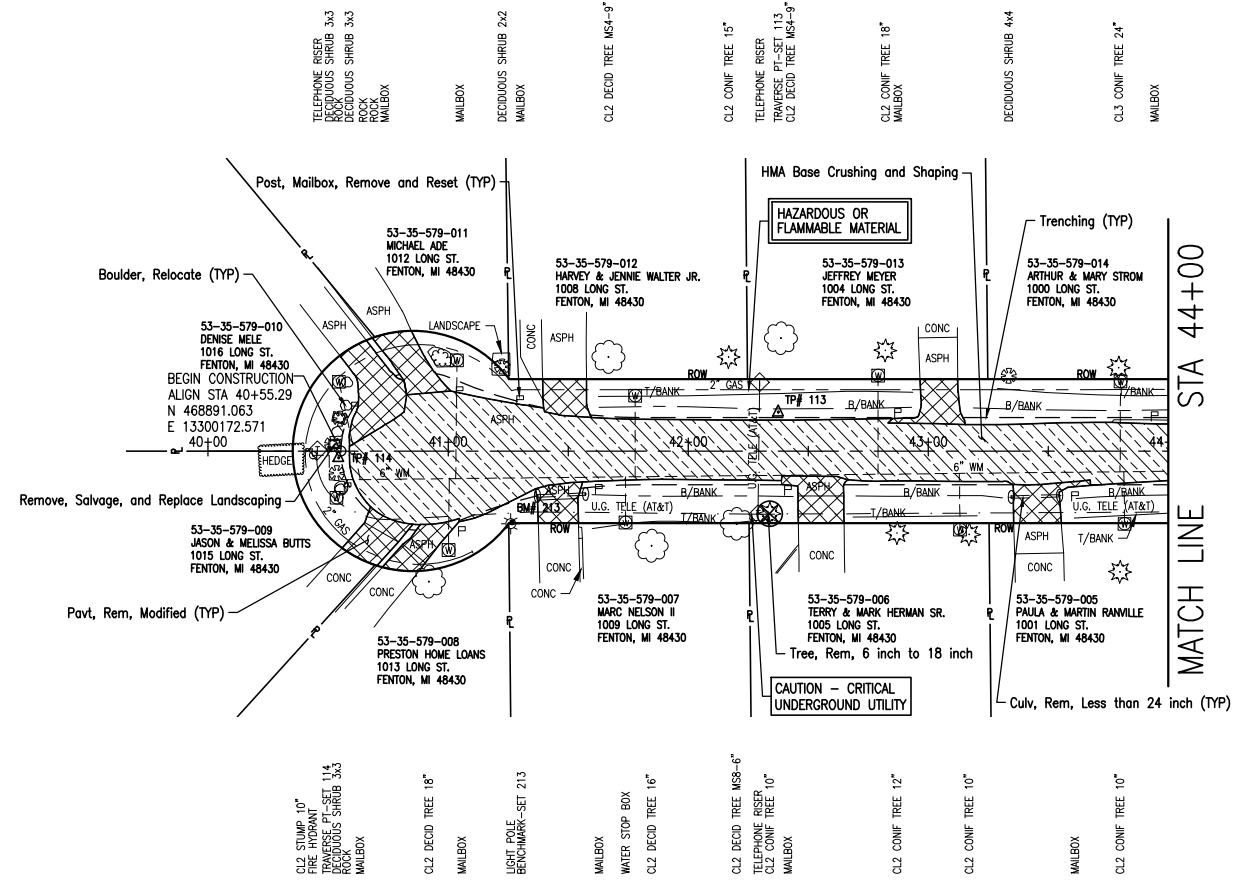
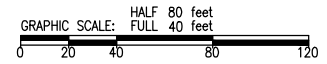
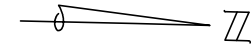
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JOB BENCHMARK #213
COTTON SPINDLE ON WEST FACE OF
WOOD LIGHT POLE. LOCATED ON EAST
SIDE OF LONG ST. NEAREST TO HOUSE
ADDRESS #1009. ELEV 989.38

TRAVERSE POINT #113
N 469072.76
E 13300152.01 ELEV 985.83

TRAVERSE POINT #114
N 468890.16
E 13300175.42 ELEV 989.10

LONG ST (60' R.O.W.)



SOIL EROSION LEGEND

- INLET FILTER
- Erosion Control, Inlet Protection, Fabric Drop
- GEOTEXTILE SILT FENCE
- Erosion Control, Silt Fence
- GRADING LIMIT

NOTES:
1. ALL DISTURBED GREENBELT AREAS TO BE RESTORED.

QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
1	Ea	Tree, Rem, 6 inch to 18 inch
2	Ea	Culv, Rem, Less than 24 inch
514	Syd	Excavation, Earth
100	Cyd	HMA Base Crushing and Shaping
1299	Syd	Trenching
5.6	Sta	Post, Mailbox, Remove and Reset
10	Ea	Boulder, Relocate
4	Ea	Remove, Salvage, and Replace Landscaping and Lighting



ISSUED FOR: ISSUE DESCRIPTION
REVISION DESCRIPTION

DATE

PROJECT NUMBER: PM AP
001725-000

CITY OF FENTON
2026 LOCAL ROAD PROGRAM
LONG ST: P.O.B. TO STA. 44+00

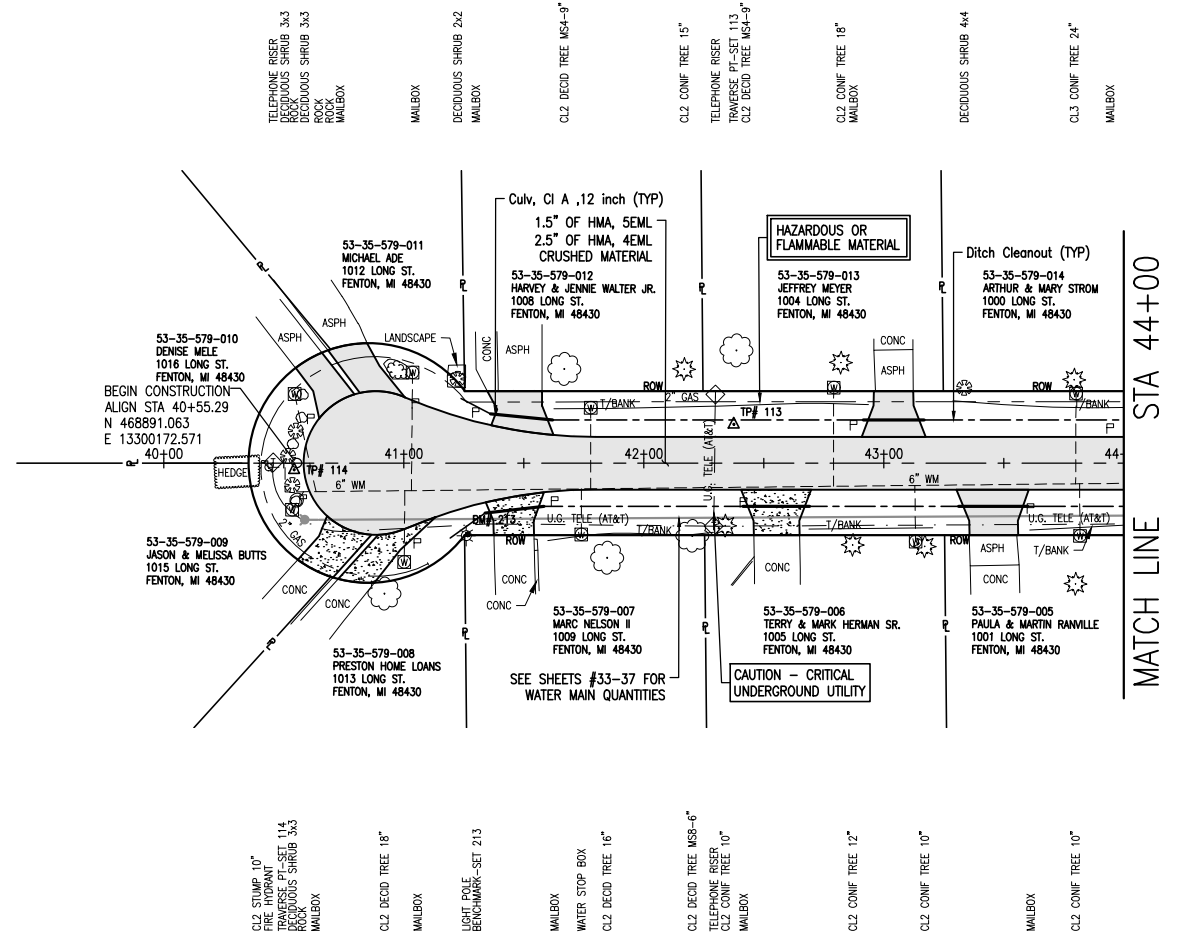
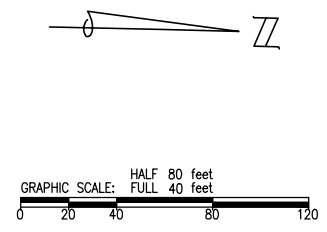
REMOVAL SHEET

JOB BENCHMARK #213
 COTTON SPINDLE ON WEST FACE OF
 WOOD LIGHT POLE. LOCATED ON EAST
 SIDE OF LONG ST. NEAREST TO HOUSE
 ADDRESS #1009. ELEV 989.38

TRAVERSE POINT #113
 N 469072.76
 E 13300152.01 ELEV 985.83

TRAVERSE POINT #114
 N 468890.16
 E 13300175.42 ELEV 989.10

LONG ST (60' R.O.W.)



PIPE NUMBER	DIA.	LENGTH (FT)	BEGIN STA	BEGIN INVERT	END STATION	END INVERT	SLOPE
CULV 4	12"	25	41+33.92	986.60	41+58.33	986.30	1.22%
CULV 5	12"	26	41+36.11	986.30	41+61.96	986.00	1.16%
CULV 6	12"	28	42+41.36	984.10	42+69.06	983.80	1.08%
CULV 7	12"	26	42+91.43	983.50	43+16.69	983.20	1.19%
CULV 8	12"	29	43+31.09	982.10	43+59.91	981.70	1.39%

ADDRESS	STATION	OFFSET SIDE	EXISTING SLOPE	PROPOSED SLOPE	Driveway, Nonreinforced Conc., 6 inch	HMA Approach	Aggregate Base, Modified
			%	%			
1016 LONG ST	40+71	LT	2.4%	4.5%	-	8	6
1015 LONG ST	40+77	RT	0.0%	-1.0%	41	-	7
1012 LONG ST	40+91	LT	3.0%	4.5%	-	9	6
1013 LONG ST	40+97	RT	2.3%	1.6%	39	-	7
1009 LONG ST	41+46	RT	7.4%	4.2%	34	-	6
1008 LONG ST	41+48	LT	3.9%	2.0%	-	9	7
1005 LONG ST	42+55	RT	3.4%	2.2%	48	-	8
1004 LONG ST	43+04	LT	7.1%	7.9%	-	10	7
1001 LONG ST	43+45	RT	2.8%	1.7%	-	11	9

TOTAL	UNIT	DESCRIPTION
6.3	Sta	Ditch Cleanout
40	Ton	Aggregate Base
62	Syd	Aggregate Base, 8 inch, Modified
133	Ft	Culv, CI A, 12 inch
50	Ton	HMA Approach
161	Ton	HMA, 4EML
97	Ton	HMA, 5EML
162	Syd	Driveway, Nonreinforced Conc., 6 inch



Know what's below.
 Call before you dig.

ISSUED FOR: BIDDING
 REVISION: DESCRIPTION

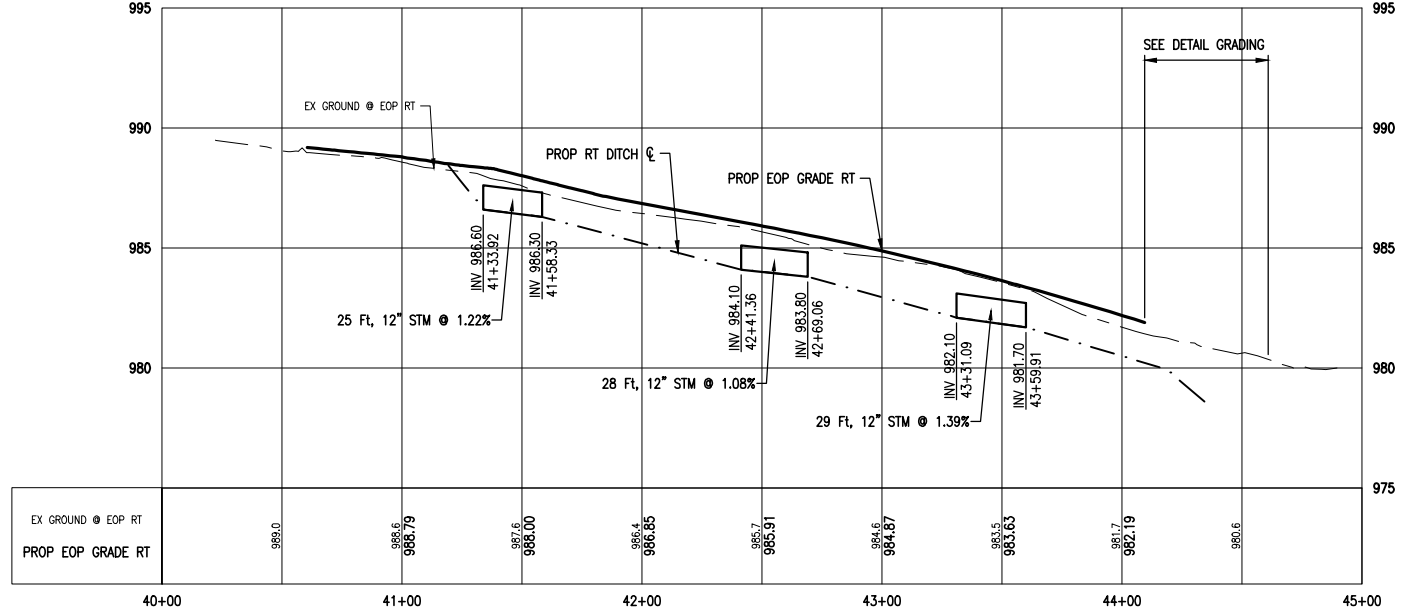
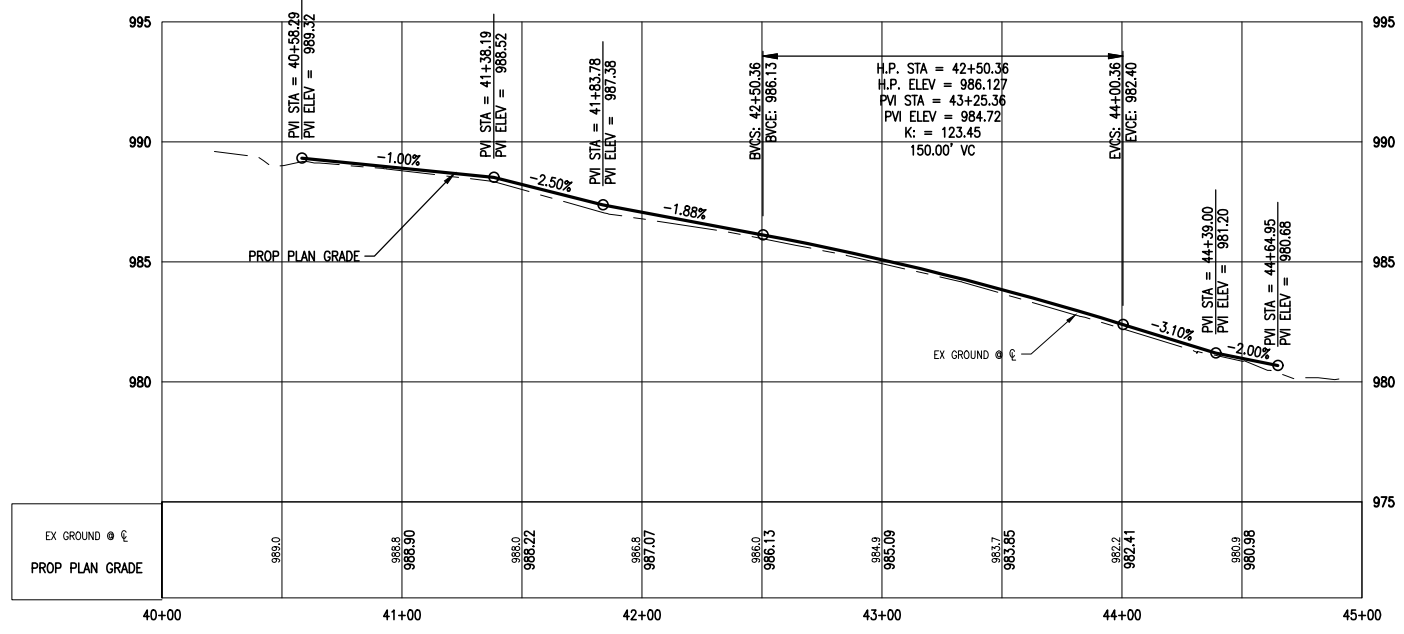
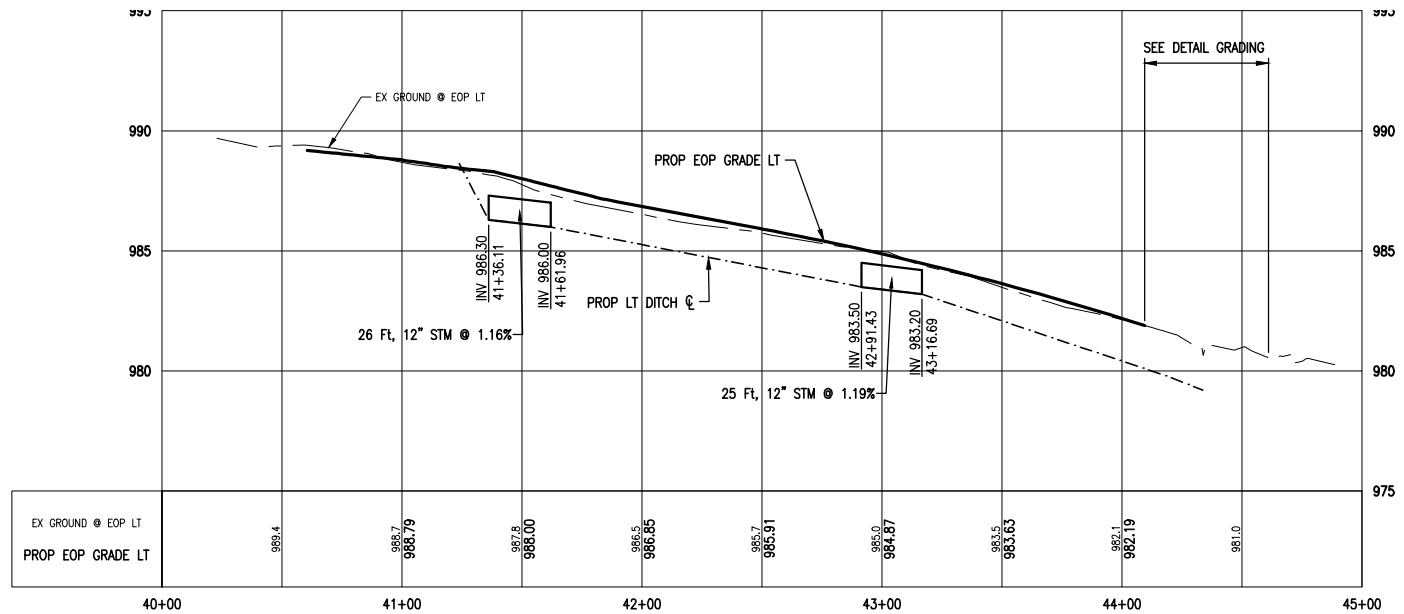
03/25/2026
 DATE

CITY OF FENTON
 2026 LOCAL ROAD PROGRAM
 LONG ST: P.O.B. TO STA. 44+00
 CONSTRUCTION SHEET

DRAWING PATH: P:\0000_010107\25040_2026_Fentons_Local_Road_Program\Drawings_CADD\Sheets\25040CON_02.dwg, March 25, 2026, 3:38 AM

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DRAWING PATH: P:\000_010\07726940_2026_Femke_Local_Road_Program\Drawings_CAD\Sheets\2026\PRF_02.dwg, March 25, 2026 - 3:27 AM



PROFILE SCALE
H: 1" = 40' V: 1" = 4'



ISSUED FOR:	BIDDING	DATE
REVISION	DESCRIPTION	

PROJECT NUMBER: PM-AP-001726-0040
 CITY OF FENTON
 2026 LOCAL ROAD PROGRAM
 LONG ST: P.O.B. TO STA. 44+00
 PROFILE SHEET

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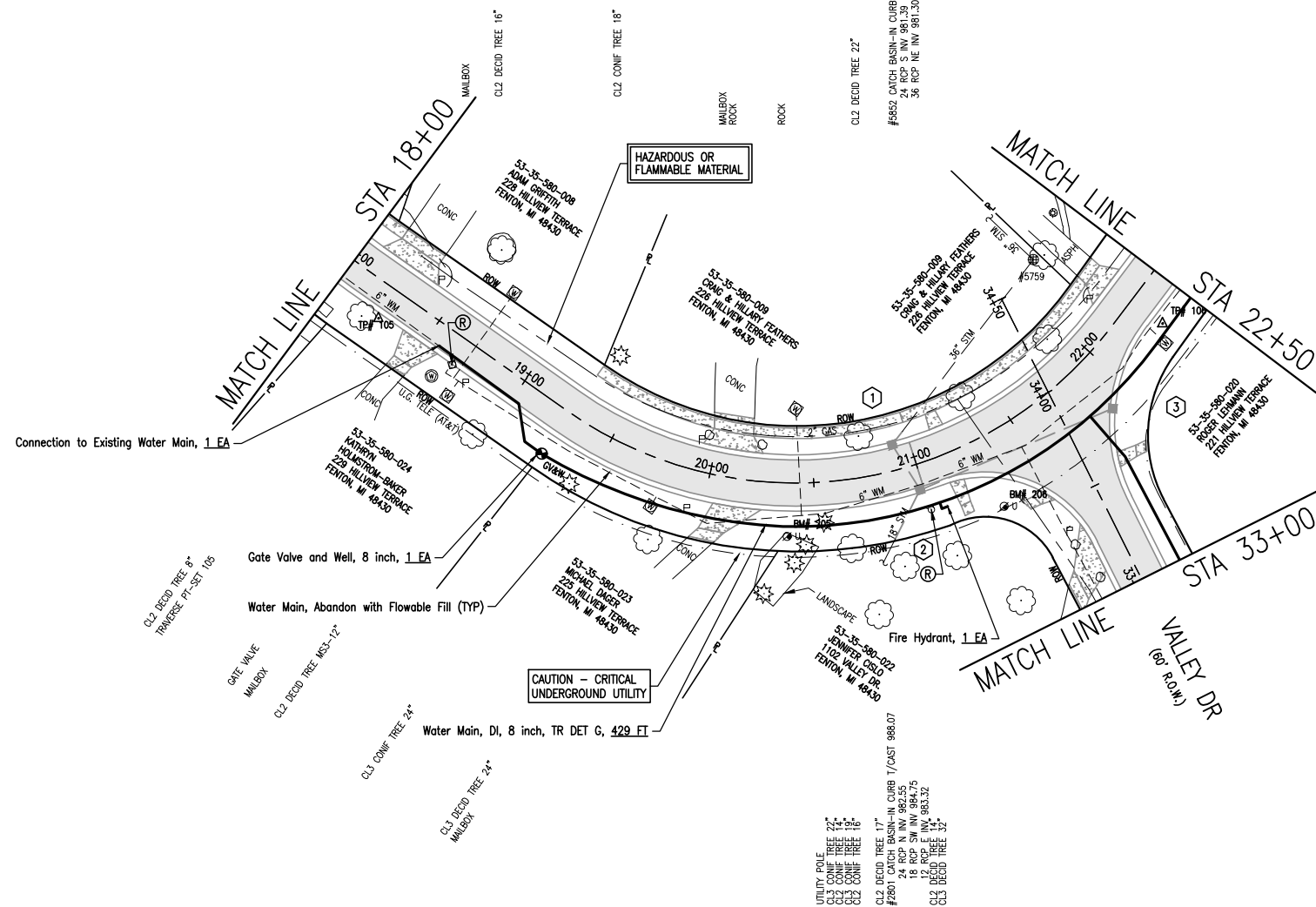
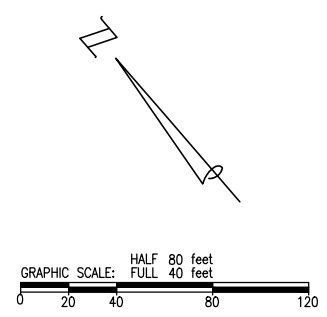
JOB BENCHMARK #205
COTTON SPINDLE ON EAST FACE OF
WOOD GUY POLE, LOCATED ON WEST
SIDE OF HILLVIEW TER, NEAREST TO
HOUSE ADDRESS #225. ELEV 990.20

JOB BENCHMARK #206
COTTON SPINDLE ON EAST FACE OF
WOOD LIGHT POLE, LOCATED ON SW
QUAD OF INTERSECTION OF HILLVIEW
TER. & VALLEY DR. ELEV 991.09

TRAVERSE POINT #105
N 468751.48
E 13289743.00 ELEV 999.01

TRAVERSE POINT #106
N 468504.14
E 13300025.27 ELEV 991.72

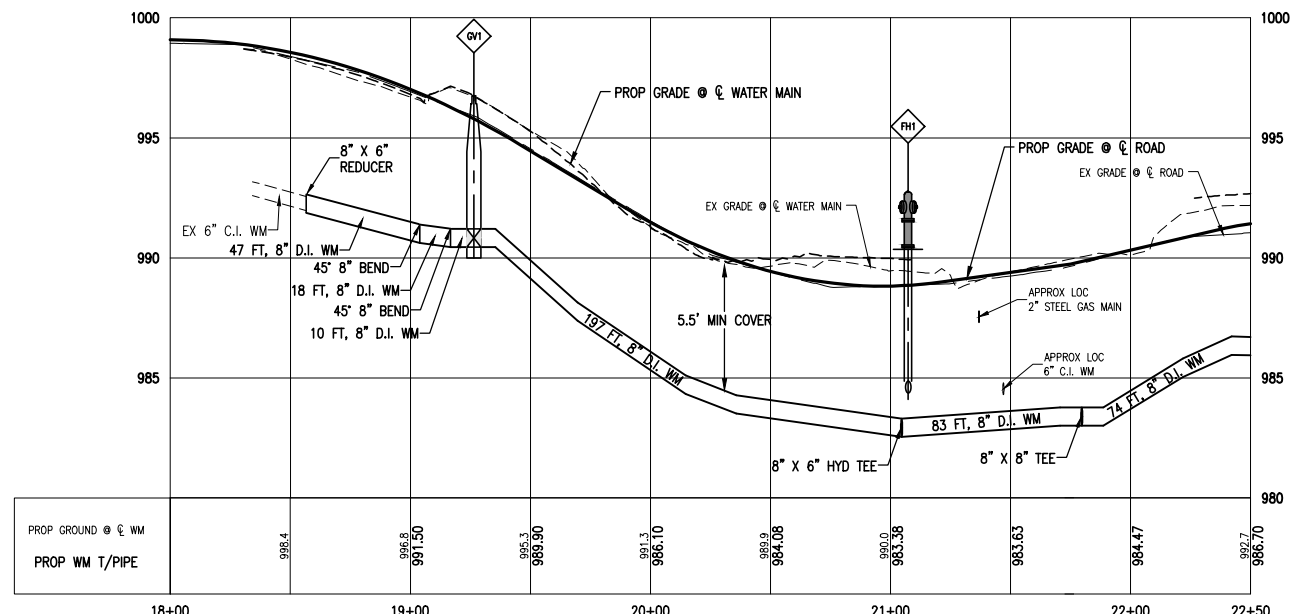
HILLVIEW TERRACE (60' R.O.W.)



WATER SERVICE REPLACEMENTS			
ADDRESS	STATION	OFFSET	SIZE
228 HILLVIEW TER	18+72	LT	1"
229 HILLVIEW TER	18+74	RT	1"
225 HILLVIEW TER	19+78	RT	1"
226 HILLVIEW TER	20+41	LT	1"
221 HILLVIEW TER	22+25	RT	1"

**WATER STOP BOX LOCATIONS ARE PROVIDED BY BEST AVAILABLE DATA AND ARE NOT TO BE TAKEN AS EXACT INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD LOCATE ALL STOP BOX LOCATIONS.

WATER MAIN APPURTENANCES			
ITEM	STATION	OFFSET	T/CAST OR F.G.
8" X 6" REDUCER	18+56.62	9.9' R	992.69
45' 8" BEND	19+03.89	10.6' R	991.43
45' 8" BEND	19+16.68	23.7' R	991.25
8" GV&W (OV1)	19+26.45	23.9' R	996.76
8" X 6" HYD TEE	21+04.65	21.0' R	983.31
FIRE HYDRANT	21+07.30	24.0' R	990.36
8" X 8" TEE	21+79.69	21.7' R	983.78



QUANTITIES THIS SHEET		
TOTAL	UNIT	DESCRIPTION
1	Ea	Hydrant, Rem
429	Ft	Water Main, DI, 8 inch, Tr Det G
3	Ea	Water Serv
2	Ea	Water Serv, Long
1	Ea	Connection to Existing Water Main
1	Ea	Gate Valve and Well, 8 inch

WATER MAIN NOTES

- A FULL LENGTH OF PIPE SHALL BE CENTERED AT ALL CROSSINGS OF THE WATER MAIN AND THE STORM SEWER, SANITARY SEWER, OR ANY OTHER UTILITIES.
- 10 FT OF SEPARATION SHALL BE MAINTAINED BETWEEN THE SANITARY SEWER AND THE WATER MAIN.
- ALL EXISTING WATER MAIN THAT IS NOT SPECIFIED FOR REMOVAL ON THIS PLAN SHALL BE ABANDONED IN PLACE WITH FLOWABLE FILL.
- ALL FIRE HYDRANT DRAIN HOLES SHALL BE PLUGGED.



ISSUED FOR: BIDDING
REVISION: DESCRIPTION

PROJECT NUMBER: 0071725-0040
DATE: 03/25/2026

CITY OF FENTON
2026 LOCAL ROAD PROGRAM
HILLVIEW TERRACE: STA 18+00 TO STA 22+50
WATER MAIN CONSTRUCTION SHEET

DRAWING PATH: P:\0000_010107725040_2026_Fentons_Local_Road_Program\Drawings_CADD\Sheet\2026\WTR_01.dwg, March 25, 2025, 3:08 AM

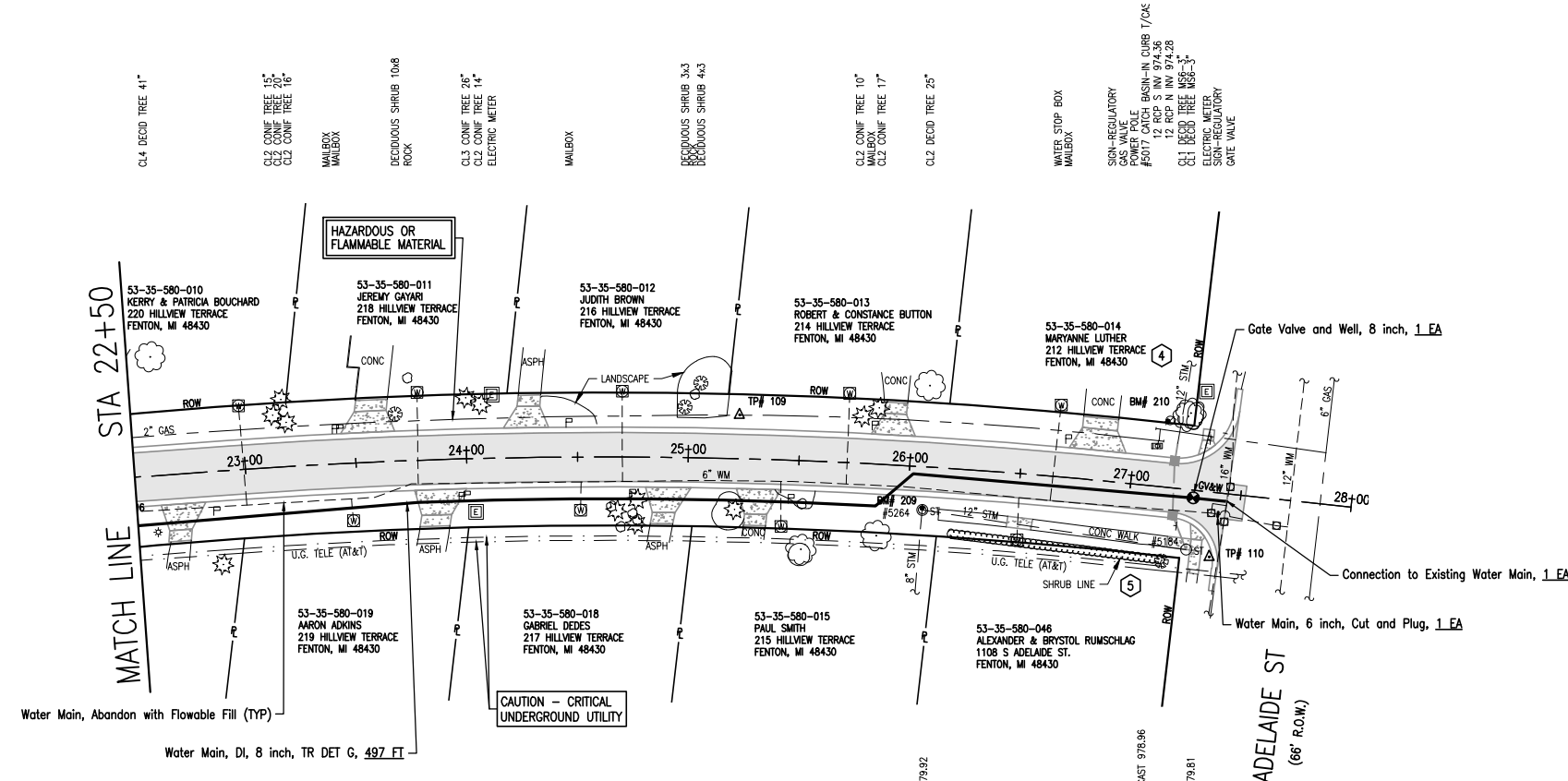
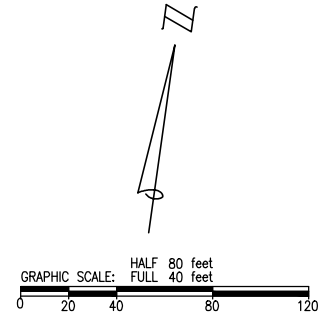
JOB BENCHMARK #209
CHISELED "I" ON NORTH SIDE OF
SANITARY MH RM. LOCATED ON SOUTH
SIDE OF HILLVIEW TER. NEAREST TO
HOUSE ADDRESS #215. ELEV 979.96

JOB BENCHMARK #210
COTTON SPINDLE ON SOUTH FACE OF
WOOD UTILITY POLE. LOCATED ON NW
QUAD AT "T" INTERSECTION OF HILLVIEW
& ADELAIDE ST. ELEV 980.18

TRAVERSE POINT #109
N 468591.61
E 13300305.37 ELEV 980.80

TRAVERSE POINT #110
N 468551.54
E 13300524.09 ELEV 980.51

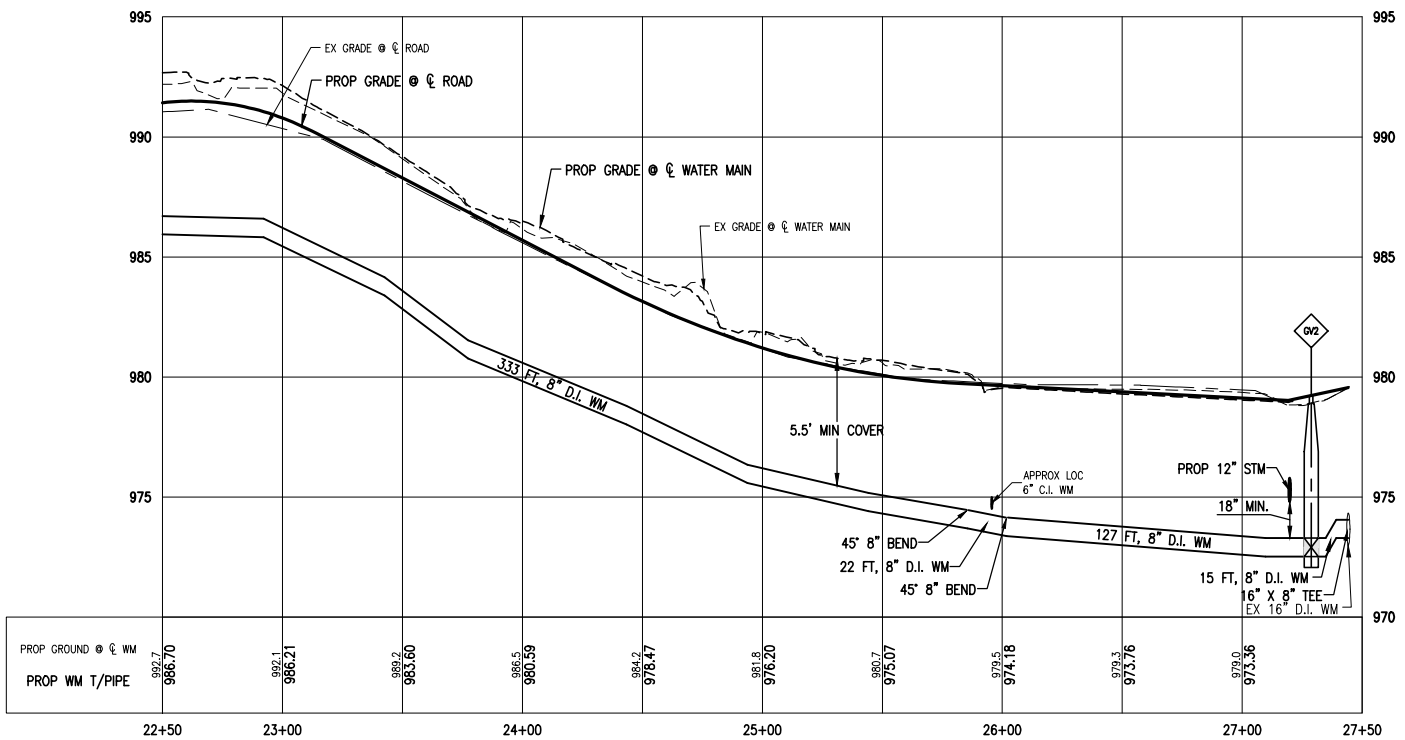
HILLVIEW TERRACE (60' R.O.W.)



WATER SERVICE REPLACEMENTS			
ADDRESS	STATION	OFFSET	SIZE
220 HILLVIEW TER	22+99	LT	1"
219 HILLVIEW TER	23+48	RT	1"
218 HILLVIEW TER	23+79	LT	1"
217 HILLVIEW TER	24+51	RT	1"
216 HILLVIEW TER	24+70	LT	1"
215 HILLVIEW TER	25+43	RT	1"
214 HILLVIEW TER	25+71	LT	1"
1108 S ADELAIDE ST	26+51	RT	1"
212 HILLVIEW TER	26+66	LT	1"

**WATER STOP BOX LOCATIONS ARE PROVIDED BY BEST AVAILABLE DATA AND ARE NOT TO BE TAKEN AS EXACT INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD LOCATE ALL STOP BOX LOCATIONS.

WATER MAIN APPURTENANCES			
ITEM	STATION	OFFSET	T/CAST OR F.G.
45' 8" BEND	25+85.53	18.9' R	974.49
45' 8" BEND	26+01.85	3.5' R	974.18
8" GV&W (GVZ)	27+28.72	3.5' R	979.22
16" X 8" TEE	27+44.18	3.5' R	974.05



QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
1	Ea	Water Main, 6 inch, Cut and Plug
497	Ft	Water Main, Di, 8 inch, Tr Det G
4	Ea	Water Serv
5	Ea	Water Serv, Long
1	Ea	Connection to Existing Water Main
1	Ea	Gate Valve and Well, 8 inch

WATER MAIN NOTES

- A FULL LENGTH OF PIPE SHALL BE CENTERED AT ALL CROSSINGS AT ALL CROSSINGS OF THE WATER MAIN AND THE STORM SEWER, SANITARY SEWER, OR ANY OTHER UTILITIES.
- 10 FT OF SEPARATION SHALL BE MAINTAINED BETWEEN THE SANITARY SEWER AND THE WATER MAIN.
- ALL EXISTING WATER MAIN THAT IS NOT SPECIFIED FOR REMOVAL ON THIS PLAN SHALL BE ABANDONED IN PLACE WITH FLOWABLE FILL.
- ALL FIRE HYDRANT DRAIN HOLES SHALL BE PLUGGED.



Know what's below.
Call before you dig.

ISSUED FOR: BIDDING
REVISION: DESCRIPTION
DATE: 03/25/2026

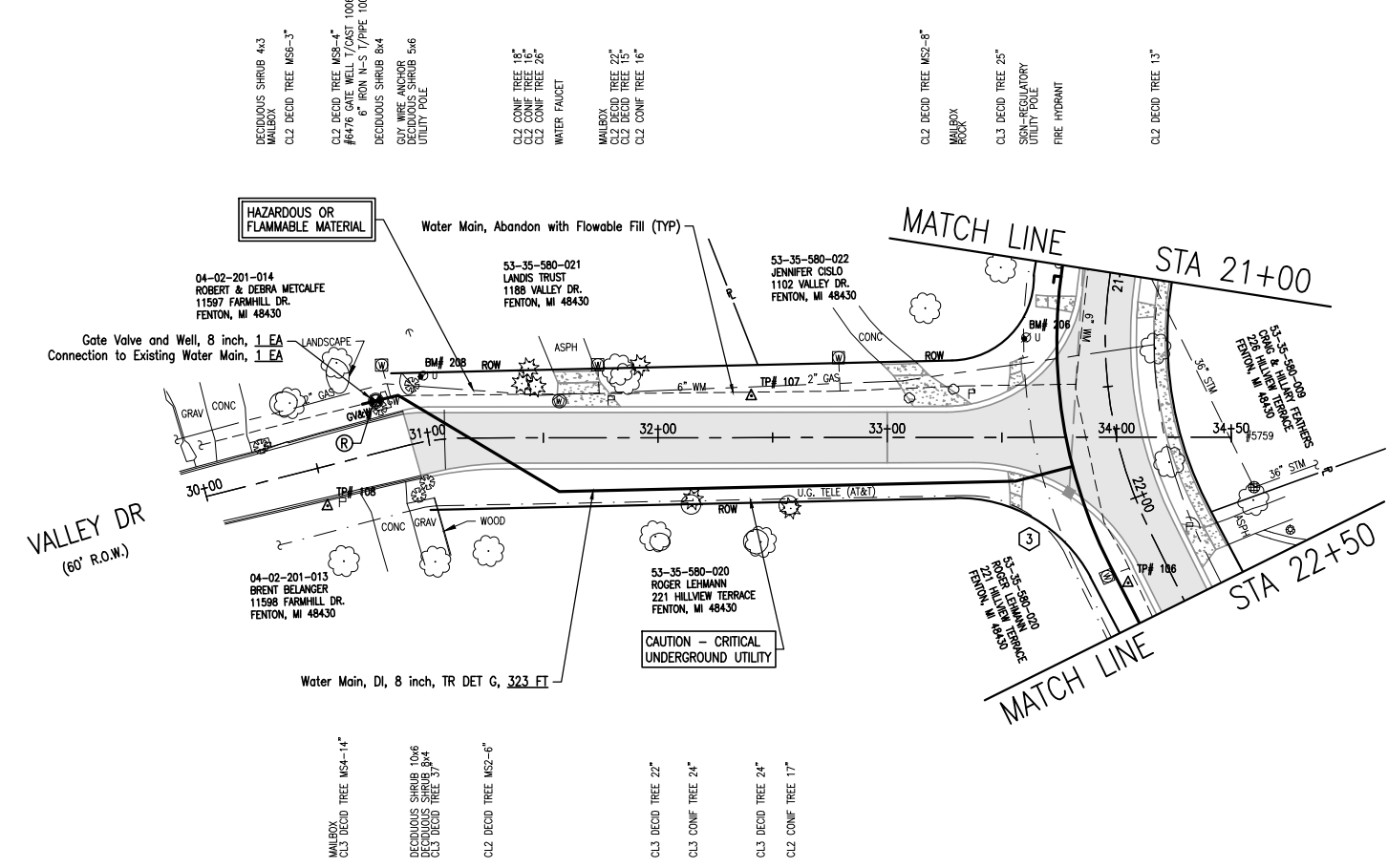
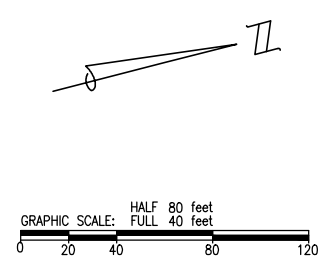
CITY OF FENTON
2026 LOCAL ROAD PROGRAM
HILLVIEW TERRACE: STA 22+50 TO P.O.E.
WATER MAIN CONSTRUCTION SHEET

DRAWING PATH: P:\0000_010\07726040_2026_Fentons_Local_Road_Program\Drawings_CADD\Sheet\25040\HTR_01.dwg, March 25, 2025, 3:08 AM

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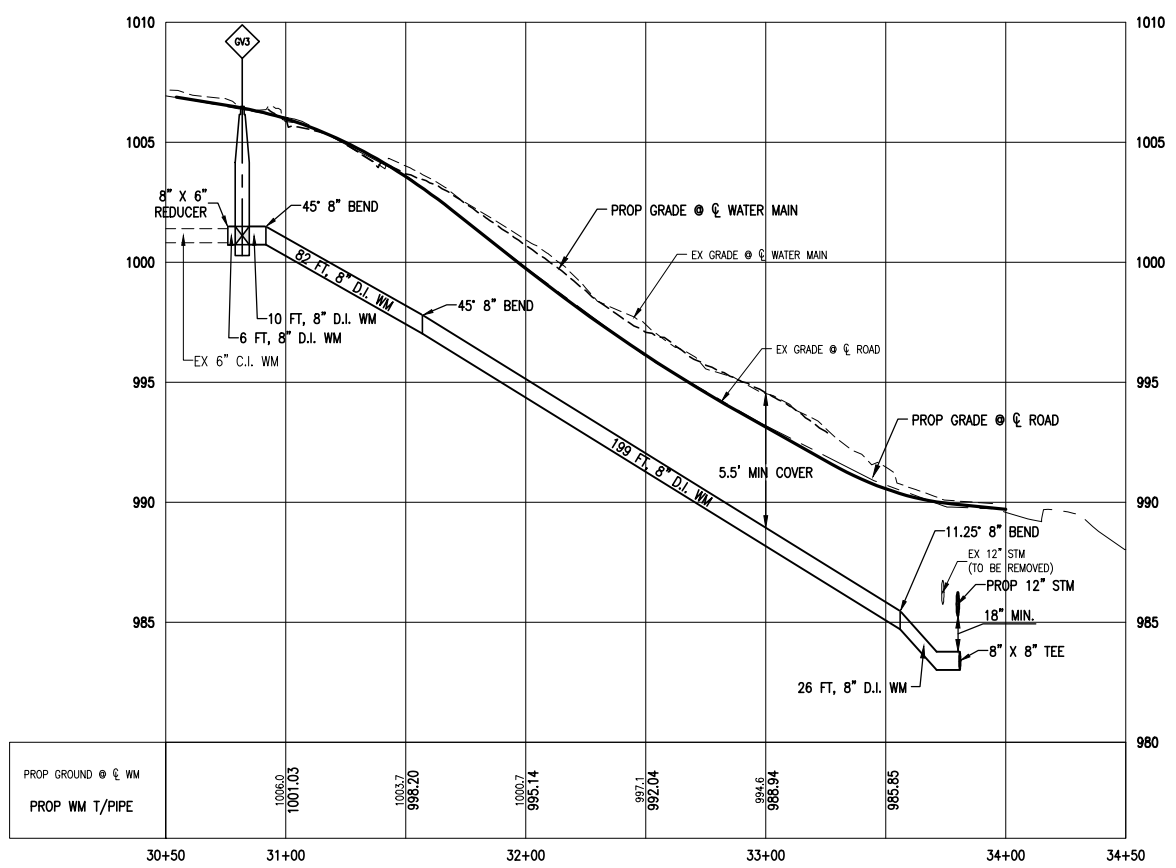
JOB BENCHMARK #206 COTTON SPINDLE ON EAST FACE OF WOOD LIGHT POLE, LOCATED ON SW QUAD OF INTERSECTION OF HILLVIEW TER. & VALLEY DR. ELEV 991.09	
JOB BENCHMARK #208 COTTON SPINDLE ON EAST FACE OF WOOD POWER POLE, LOCATED ON WEST SIDE OF FARMHILL DR. NEAREST TO HOUSE ADDRESS #11597. ELEV 1006.51	
TRAVERSE POINT #106 N 468504.14 E 13300025.27 ELEV 991.72	
TRAVERSE POINT #107 N 468365.18 E 13299905.60 ELEV 996.98	
TRAVERSE POINT #108 N 468174.18 E 13299906.22 ELEV 1007.07	

VALLEY DRIVE (60' R.O.W.)



WATER SERVICE REPLACEMENTS			
ADDRESS	STATION	OFFSET	SIZE
11597 FARMHILL	30+88	LT	1"
11598 FARMHILL	UNKOWN	RT	1"
1188 VALLEY DR	31+74	LT	1"
1102 VALLEY DR	32+79	LT	1"

**WATER STOP BOX LOCATIONS ARE PROVIDED BY BEST AVAILABLE DATA AND ARE NOT TO BE TAKEN AS EXACT INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD LOCATE ALL STOP BOX LOCATIONS.



WATER MAIN APPURTENANCES			
ITEM	STATION	OFFSET	T/CAST OR F.G.
8" X 6" REDUCER	30+75.89	22.2' L	1001.53
8" GV&W (GV3)	30+81.89	22.2' L	1006.50
45" 8" BEND	30+91.73	22.2' L	1001.53
45" 8" BEND	31+56.98	23.4' R	997.84
11.25" 8" BEND	33+56.03	19.2' R	985.51

QUANTITIES THIS SHEET		
TOTAL	UNIT	DESCRIPTION
1	Ea	Gate Well, Rem
323	Ft	Water Main, DI, 8 inch, Tr Det G
1	Ea	Water Serv
2	Ea	Water Serv, Long
1	Ea	Connection to Existing Water Main
1	Ea	Gate Valve and Well, 8 inch

WATER MAIN NOTES

- A FULL LENGTH OF PIPE SHALL BE CENTERED AT ALL CROSSINGS OF THE WATER MAIN AND THE STORM SEWER, SANITARY SEWER, OR ANY OTHER UTILITIES.
- 10 FT OF SEPARATION SHALL BE MAINTAINED BETWEEN THE SANITARY SEWER AND THE WATER MAIN.
- ALL EXISTING WATER MAIN THAT IS NOT SPECIFIED FOR REMOVAL ON THIS PLAN SHALL BE ABANDONED IN PLACE WITH FLOWABLE FILL.
- ALL FIRE HYDRANT DRAIN HOLES SHALL BE PLUGGED.



ISSUED FOR: BIDDING
REVISION: DESCRIPTION
DATE: 03/25/2026

CITY OF FENTON
2026 LOCAL ROAD PROGRAM
VALLEY DR, P.O.B. TO P.O.E.
WATER MAIN CONSTRUCTION SHEET

DRAWING PATH: P:\000_010\07726240_2026_Fenton_Local_Road_Program\Drawings_CADD\Sheet\250401\WTS_01.dwg, March 25, 2026, 3:08 AM

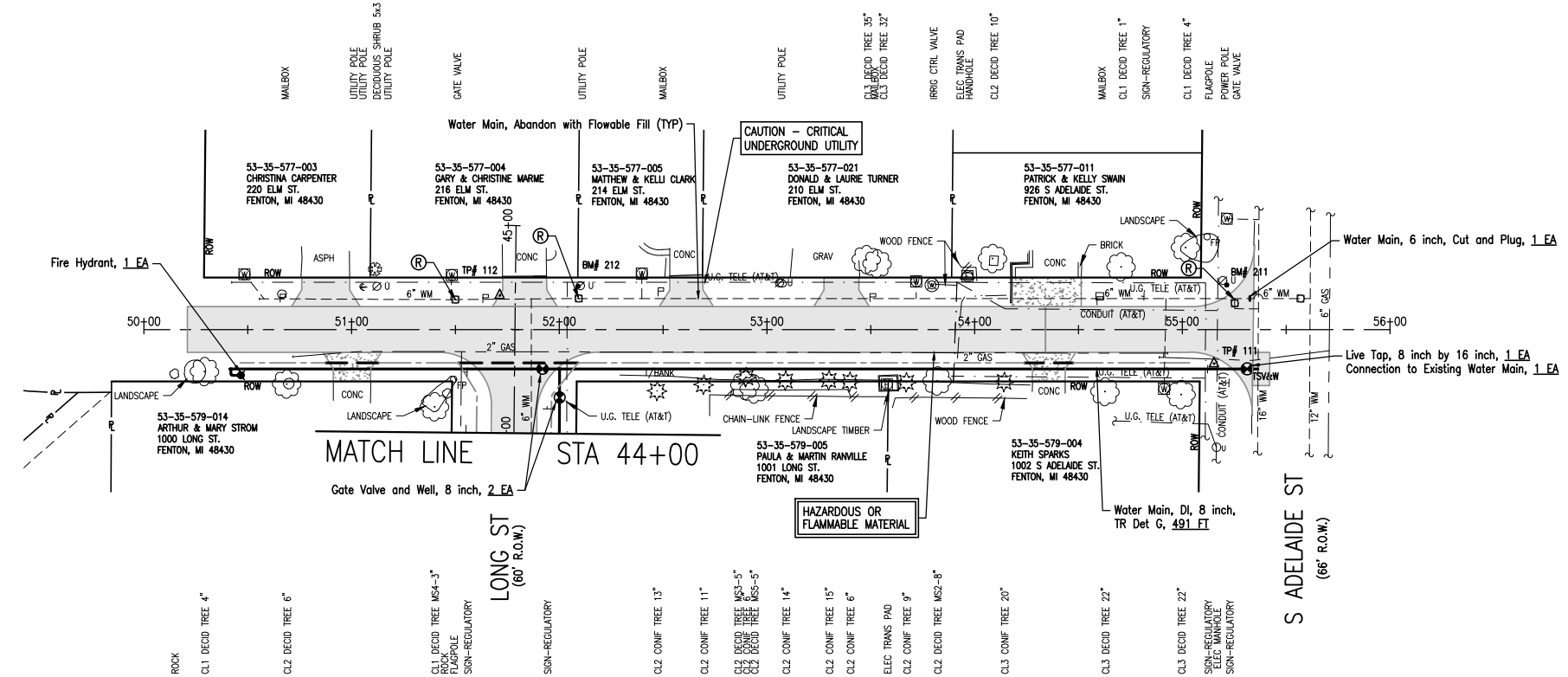
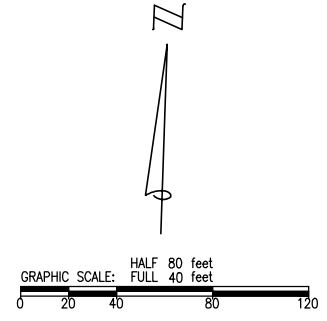
JOB BENCHMARK #211
COTTON SPINDLE ON SOUTH FACE OF
WOOD UTILITY POLE. LOCATED ON NW
QUAD OF INTERSECTION AT ELM &
ADELAIDE. ELEV 967.67

JOB BENCHMARK #212
COTTON SPINDLE ON SOUTH FACE OF
WOOD UTILITY POLE. LOCATED ON
NORTH SIDE OF INTERSECTION AT ELM
& LONG ST. NEAREST TO HOUSE
ADDRESS #214. ELEV 979.94

TRAVERSE POINT #111
N 469280.66
E 13300500.00 ELEV 968.38

TRAVERSE POINT #112
N 468301.79
E 13300155.14 ELEV 980.66

ELM ST (50' R.O.W.)



WATER SERVICE REPLACEMENTS			
ADDRESS	STATION	OFFSET	SIZE
220 ELM ST	50+48	LT	1"
216 ELM ST	51+48	LT	1"
214 ELM ST	52+40	LT	1"
210 ELM ST	53+72	LT	1"
1102 S ADELAIDE ST	54+91	RT	1"

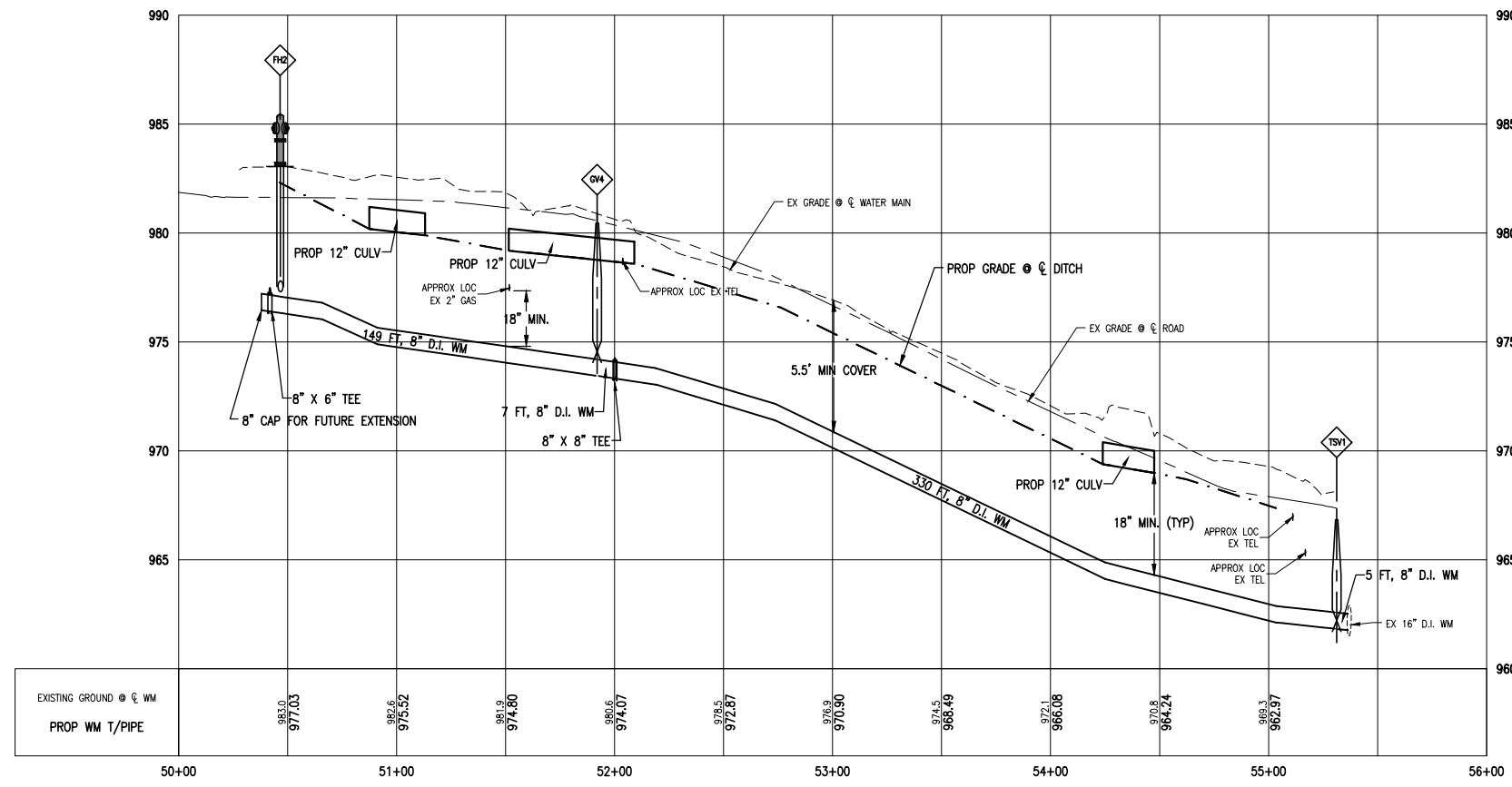
**WATER STOP BOX LOCATIONS ARE PROVIDED BY BEST AVAILABLE DATA AND ARE NOT TO BE TAKEN AS EXACT INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD LOCATE ALL STOP BOX LOCATIONS.

FITTINGS		
ITEM	STATION	OFFSET
8" X 6" TEE	50+41.89	19.0' R
8" X 8" TEE	52+00.18	19.0' R

APPURTENANCES		
ITEM	STATION	OFFSET
FIRE HYDRANT (FH2)	50+46.69	22.0' R
8" GV&W (GV4)	51+91.94	19.0' R
8" TSV&W (TS1)	55+31.14	19.0' R

QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
1	Ea	Fire Hydrant
1	Ea	Water Main, 6 inch, Cut and Plug
491	FT	Water Main, DI, 8 inch, Tr Det G
1	Ea	Water Serv
4	Ea	Water Serv, Long
1	Ea	Live Tap, 8 inch by 16 inch
1	Ea	Connection to Existing Water Main
2	Ea	Gate Valve and Well, 8 inch



WATER MAIN NOTES

- A FULL LENGTH OF PIPE SHALL BE CENTERED AT ALL CROSSINGS OF THE WATER MAIN AND THE STORM SEWER, SANITARY SEWER, OR ANY OTHER UTILITIES.
- 10 FT OF SEPARATION SHALL BE MAINTAINED BETWEEN THE SANITARY SEWER AND THE WATER MAIN.
- ALL EXISTING WATER MAIN THAT IS NOT SPECIFIED FOR REMOVAL ON THIS PLAN SHALL BE ABANDONED IN PLACE WITH FLOWABLE FILL.
- ALL FIRE HYDRANT DRAIN HOLES SHALL BE PLUGGED.



Know what's below.
Call before you dig.

ISSUED FOR: BIDDING 03/25/2026
REVISION: DESCRIPTION DATE

CITY OF FENTON
2026 LOCAL ROAD PROGRAM
ELM ST: P.O.B. TO P.O.E.
WATER MAIN CONSTRUCTION SHEET

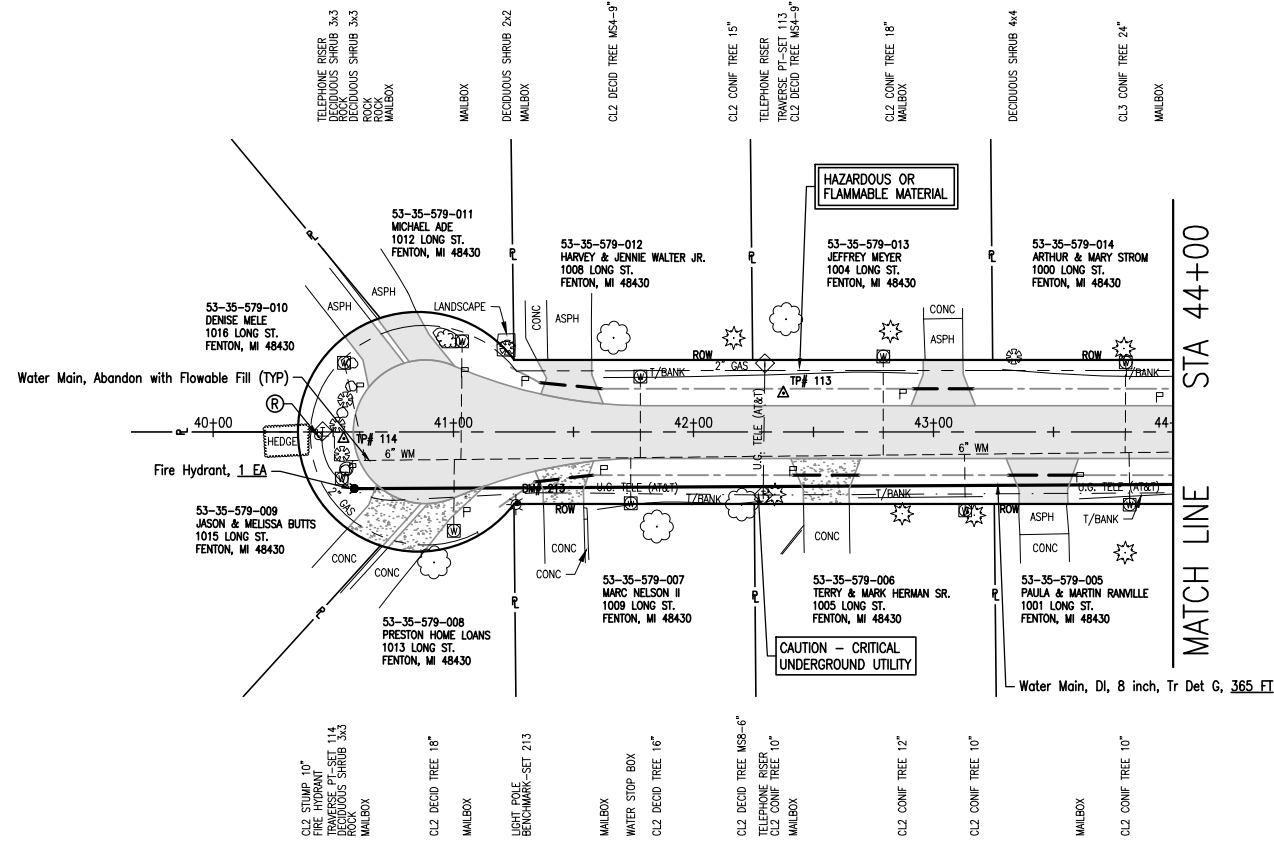
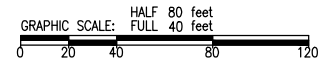
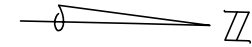
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JOB BENCHMARK #213
COTTON SPINDLE ON WEST FACE OF
WOOD LIGHT POLE. LOCATED ON EAST
SIDE OF LONG ST. NEAREST TO HOUSE
ADDRESS #1009. ELEV 989.38

TRAVERSE POINT #113
N 469072.76
E 13300152.01 ELEV 985.83

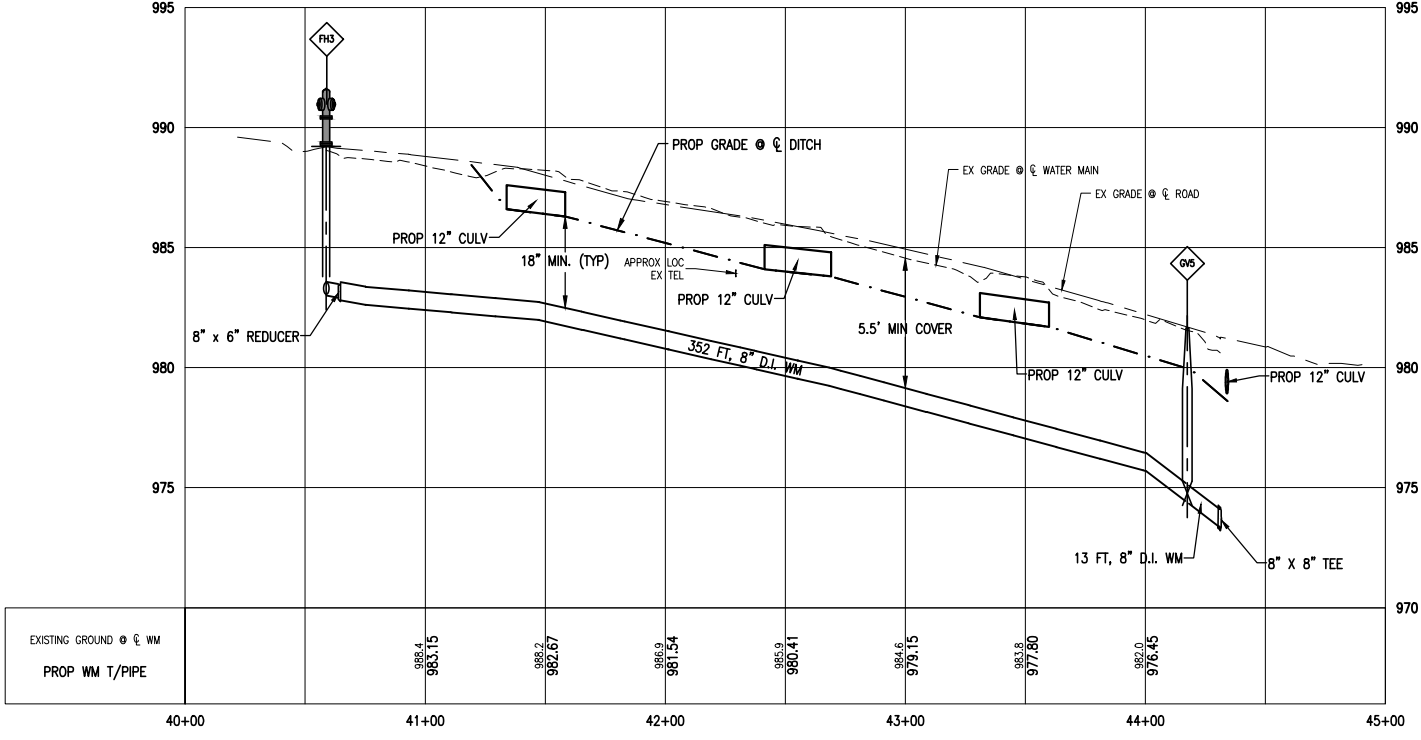
TRAVERSE POINT #114
N 468990.16
E 13300175.42 ELEV 989.10

LONG ST (60' R.O.W.)



WATER SERVICE REPLACEMENTS			
ADDRESS	STATION	OFFSET	SIZE
1015 LONG ST	40+54	RT	1"
1016 LONG ST	40+55	LT	1"
1013 LONG ST	41+00	RT	1"
1012 LONG ST	41+04	LT	1"
1009 LONG ST	41+74	RT	1"
1008 LONG ST	41+78	LT	1"
1004 LONG ST	42+79	LT	1"
1005 LONG ST	43+13	RT	1"
1000 LONG ST	43+80	LT	1"
1001 LONG ST	43+82	RT	1"

**WATER STOP BOX LOCATIONS ARE PROVIDED BY BEST AVAILABLE DATA AND ARE NOT TO BE TAKEN AS EXACT INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD LOCATE ALL STOP BOX LOCATIONS.



APPURTENANCES		
ITEM	STATION	OFFSET
FIRE HYDRANT (FH3)	40+58.71	23.6' R
8" x 6" REDUCER	40+64.42	23.6' R
8" GV&W (GV5)	44+17.44	21.8' R

QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
1	Ea	Fire Hydrant
1	Ea	Hydrant, Rem
365	Ft	Water Main, DI, 8 inch, Tr Det G
5	Ea	Water Serv
5	Ea	Water Serv, Long

WATER MAIN NOTES

- A FULL LENGTH OF PIPE SHALL BE CENTERED AT ALL CROSSINGS OF THE WATER MAIN AND THE STORM SEWER, SANITARY SEWER, OR ANY OTHER UTILITIES.
- 10 FT OF SEPARATION SHALL BE MAINTAINED BETWEEN THE SANITARY SEWER AND THE WATER MAIN.
- ALL EXISTING WATER MAIN THAT IS NOT SPECIFIED FOR REMOVAL ON THIS PLAN SHALL BE ABANDONED IN PLACE WITH FLOWABLE FILL.
- ALL FIRE HYDRANT DRAIN HOLES SHALL BE PLUGGED.



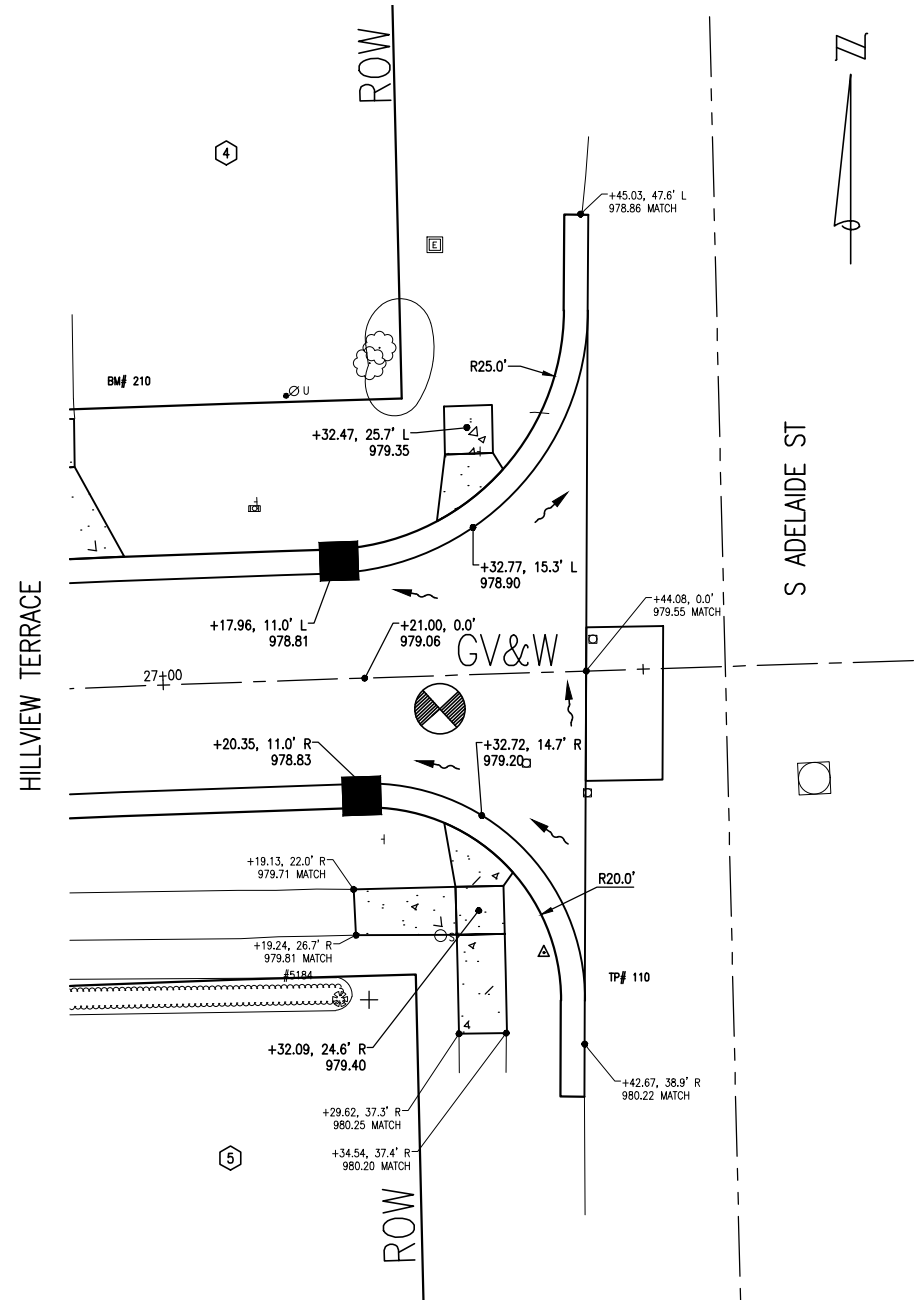
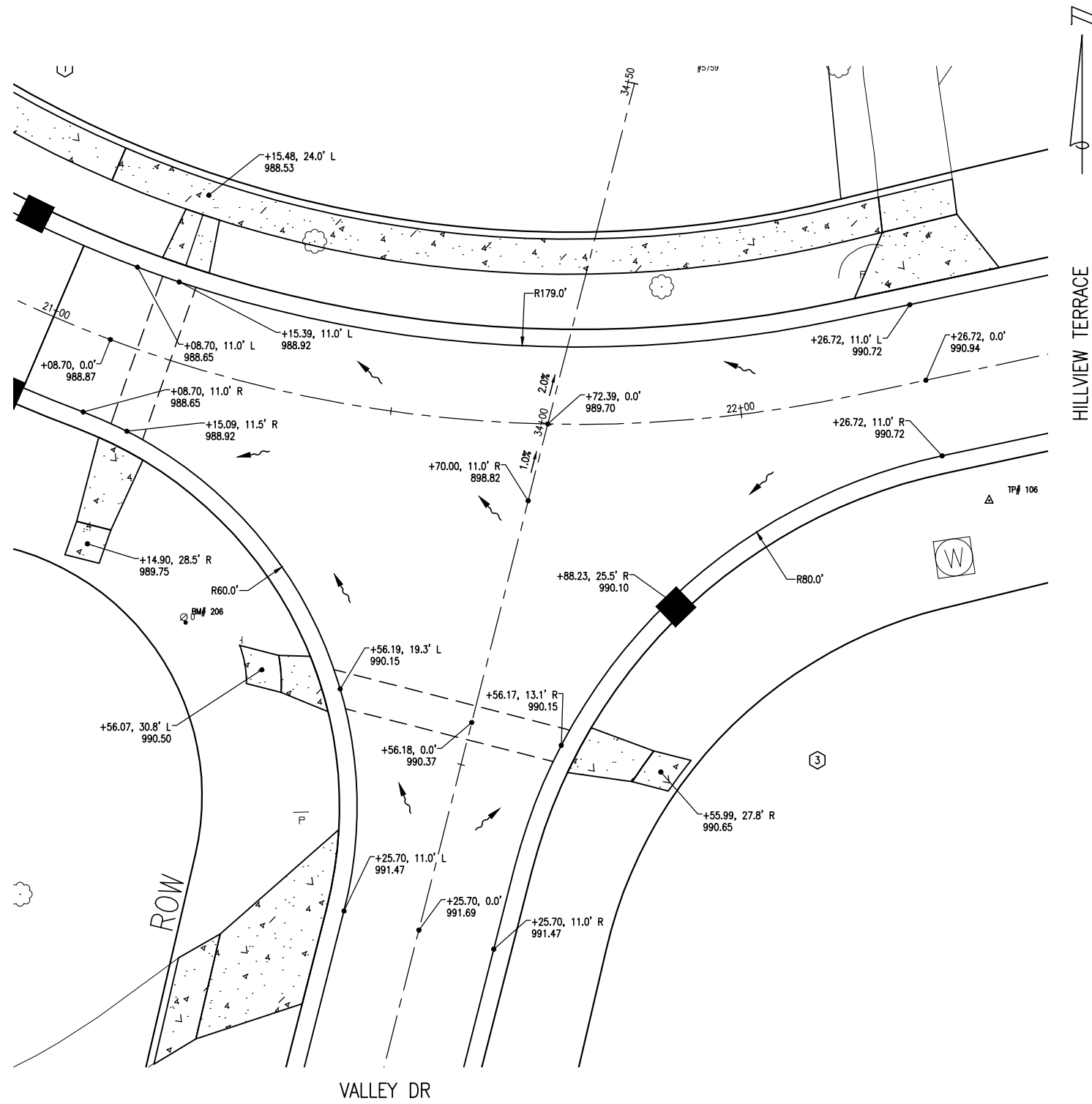
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REVISION: DESCRIPTION
DATE: 03/25/2026

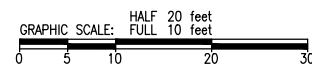
CITY OF FENTON
2026 LOCAL ROAD PROGRAM
LONG ST: P.O.B. TO STA. 44+00
WATER MAIN CONSTRUCTION SHEET

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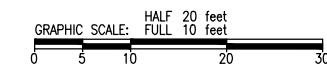
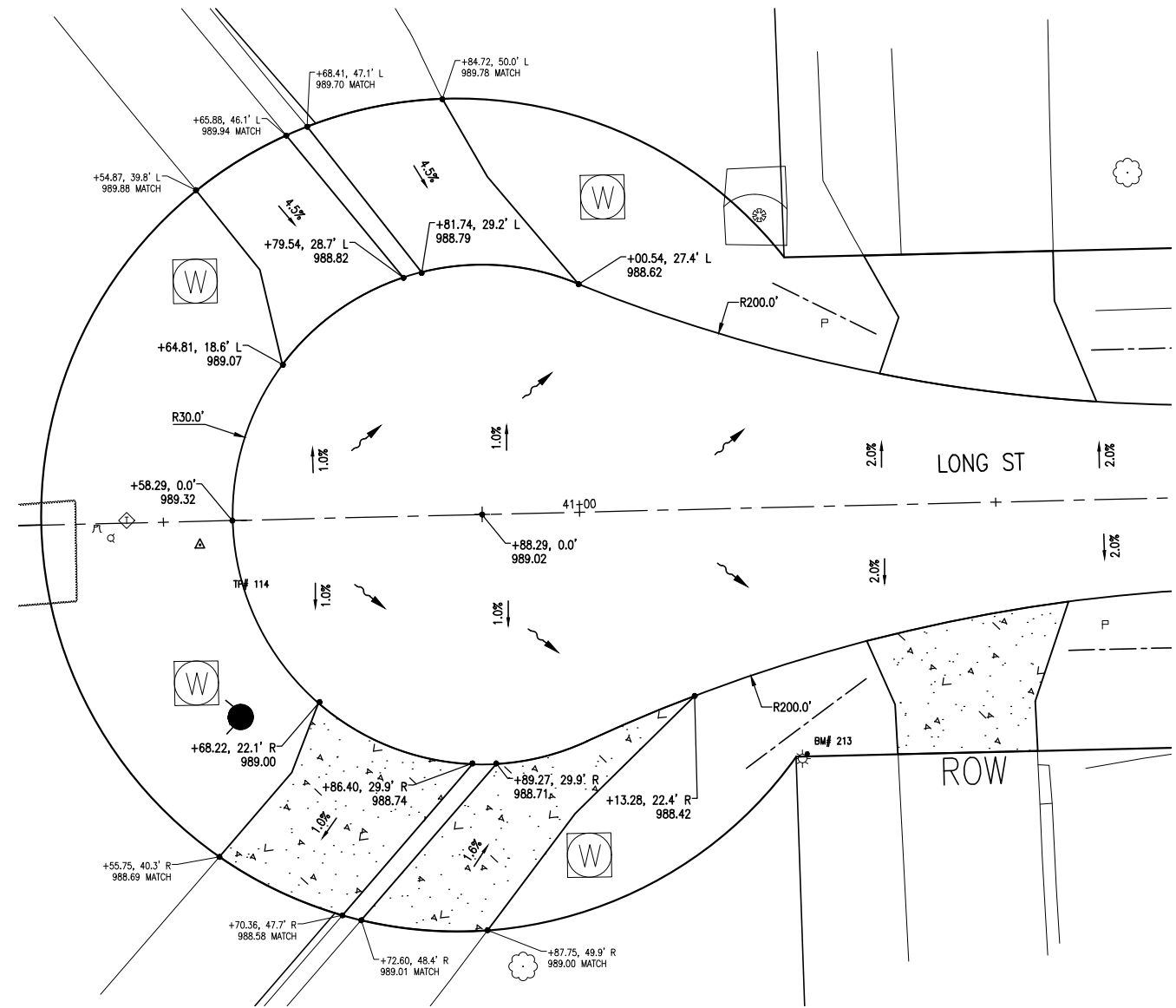
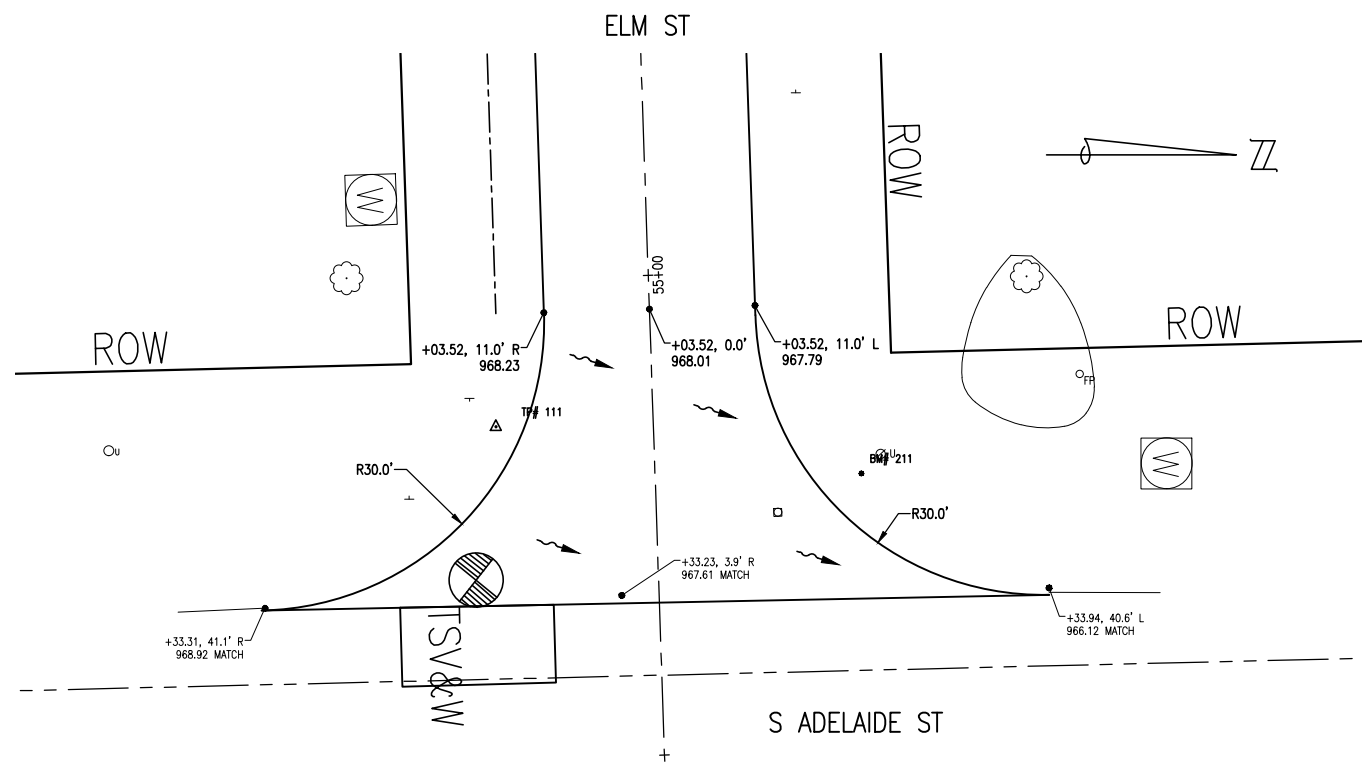
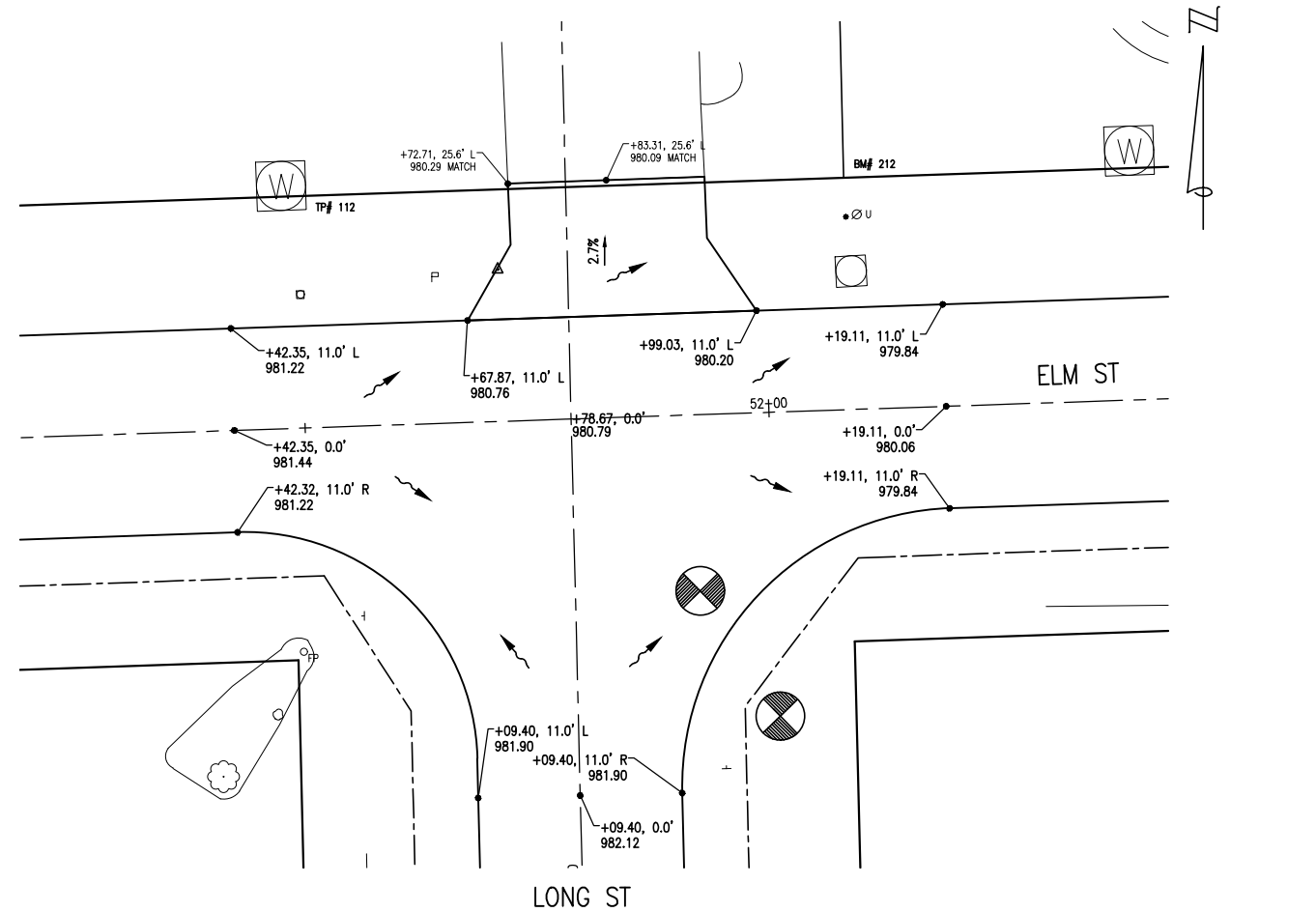


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REVISION	DESCRIPTION

PROJECT NUMBER: PM AP
007726-0000
CITY OF FENTON
2026 LOCAL ROAD PROGRAM
HILLVIEW TERRACE
DETAIL GRADING SHEET

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PROJECT NUMBER: PM-071725-0040
 AP
 CITY OF FENTON
 2026 LOCAL ROAD PROGRAM
 ELM ST & LONG ST
 DETAIL GRADING SHEET

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