# VILLAGE OF CHAGRIN FALLS VINCENT STREET IMPROVEMENTS **PART A: WATERMAIN AND STREET IMPROVEMENTS** CUYAHOGA COUNTY, OHIO

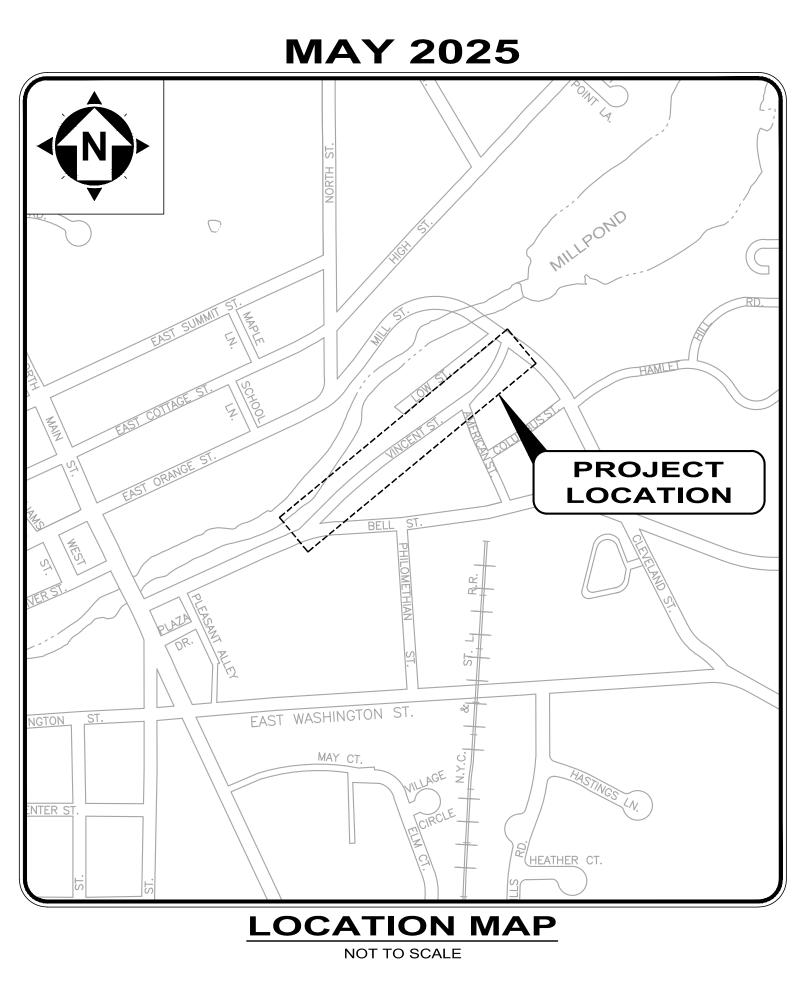
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# **UTILITIES:**

- AT&T
- 2. CHARTER COMMUNICATIONS (SPECTRUM / TIME WARNER CABLE)
- DOMINION ENERGY OHIO
- THE ILLUMINATING CO.
- 5. VILLAGE OF CHAGRIN FALLS
- UNDERGROUND BUILDING SERVICE UTILITY LINES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, MAINTAINING AND REPLACING AS NECESSARY TO ENSURE CONTINUAL SERVICE TO BUILDINGS.

4.

2. THE CONTRACTOR IS RESPONSIBLE TO CALL OHIO UTILITIES PROTECTION SERVICE @ 1-800-362-2764, THREE WORKING DAYS PRIOR TO CONSTRUCTION.





**OHIO 811 DESIGN SERIAL NUMBERS & UTILITY MEMBER LIST:** VINCENT ST. #A434102291 & #B421501136

# verdantas

# **ENGINEER'S PROJECT No. 24025505**

# **MEMBERS OF COUNCIL:**

ANGELA DeBERNARDO, COUNCIL PRESIDENT NANCY ROGOFF, PRESIDENT PRO-TEM MICHAEL CORKRAN, COUNCIL REPRESENTATIVE BRIAN DRUM, COUNCIL REPRESENTATIVE ANDREW ROCKEY, COUNCIL REPRESENTATIVE ERINN GRUBE, COUNCIL REPRESENTATIVE DON GUTIERREZ, COUNCIL REPRESENTATIVE

# VILLAGE OFFICIALS:

WILLIAM TOMKO, MAYOR ROB JAMIESON, CHIEF ADMINISTRATIVE OFFICER ANGELA GERGYE, DIRECTOR OF FINANCE / CLERK OF COUNCIL DALE MARKOWITZ, LAW DIRECTOR GLENN ELLIOTT, UTILITIES SUPERINTENDENT JOHN BROCKWAY, SUPERINTENDENT OF STREETS TIM LANNON, VILLAGE ENGINEER

**ENGINEER:** 

VERDANTAS 8150 STERLING COURT MENTOR, OHIO 44060

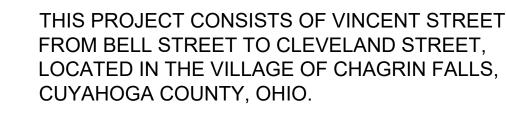
(440) 951-9000 PHONE (440) 951-7487 FAX



TIMOTHY R. LANNON, P.E. 58885





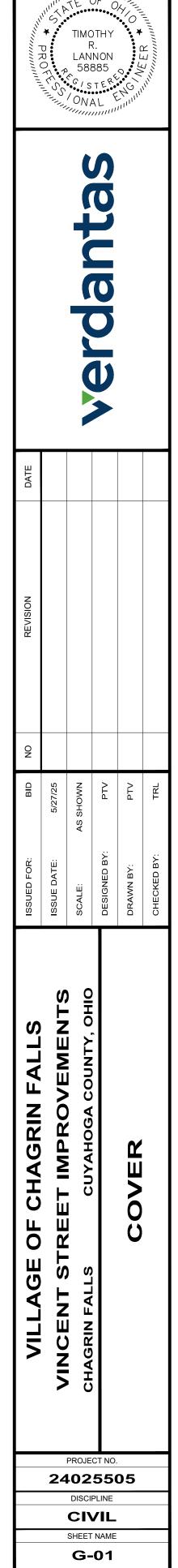


5-27-2025
DATE

SHEET

OF

24



### GENERAL

- A PRE-CONSTRUCTION CONFERENCE SCHEDULED BY THE ENGINEER SHALL BE HELD PRIOR TO ANY WORK STARTING. IN ADDITION, THE CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE TO THE ENGINEER, WATER SUPERINTENDENT, THE SANITARY SEWER DEPARTMENT AND THE VILLAGE ENGINEER PRIOR TO BEGINNING WORK TO ARRANGE FOR INSPECTION.
- 2. THE STANDARD SPECIFICATIONS OF THE OHIO DEPARTMENT OF TRANSPORTATION, LATEST EDITION, INCLUDING ALL SUPPLEMENTAL SPECIFICATIONS AND STANDARD DRAWINGS, SHALL GOVERN ALL WORK NOT COVERED BY THE SPECIFICATIONS. ALL WORK CONTEMPLATED SHALL BE GOVERNED BY THE RULES, REGULATIONS AND SPECIFICATIONS OF THE VILLAGE OF CHAGRIN FALLS.
- ALL WORK COMPLETED UNDER THIS CONTRACT SHALL COMPLY WITH THE U.S. DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT.
- ANY DEFECT IN MATERIAL OR WORKMANSHIP REVEALED BY INSPECTION MUST BE CORRECTED BY THE CONTRACTOR AT NO COST TO THE VILLAGE AND TO THE FULL SATISFACTION OF THE VILLAGE AND ENGINEER BEFORE ACCEPTANCE OF THE WORK AND RELEASE OF FINAL ESTIMATE AND PAYMENT THEREOF.
- THE CONTRACTOR SHALL PROVIDE A PRE-CONSTRUCTION VIDEO SURVEY OF THE ENTIRE PROJECT AREA. ANY DAMAGE DEEMED TO BE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED AT HIS OWN EXPENSE.
- MANHOLES, CATCH BASINS, MONUMENT BOXES, WATER VALVE BOXES AND OTHER CASTINGS WILL BE RAISED OR LOWERED FLUSH WITH THE NEW SURFACE. ANY METER OR VALVE BOX ENCOUNTERED WITHIN THE WORK SITE SHALL BE EXPOSED. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS OF WORK EXCEPT WHEN BID AS A SEPARATE ITEM.
- BEFORE THE VILLAGE WILL APPROVE AND ACCEPT THE WORK AND RELEASE THE GUARANTY RETAINER, THE CONTRACTOR SHALL FURNISH THE VILLAGE A WRITTEN REPORT INDICATING THE RESOLUTION OF ANY AND ALL PROPERTY DAMAGE CLAIMS FILED WITH THE CONTRACTOR BY ANY PARTY DURING THE CONSTRUCTION PERIOD. THE INFORMATION TO BE SUPPLIED SHALL INCLUDE, BUT NOT BE LIMITED TO, NAME OF CLAIMANT, DATE FILED WITH CONTRACTOR, NAME OF INSURANCE COMPANY AND/OR ADJUSTER HANDLING CLAIM, HOW CLAIM WAS RESOLVED AND IF CLAIM WAS NOT RESOLVED FOR THE FULL AMOUNT, A STATEMENT INDICATING THE REASON FOR SUCH ACTION.
- MATERIAL SPECIFICATIONS CALLED FOR ON THE PLANS REPRESENT THE MINIMUM REQUIRED FOR EACH APPLICATION. THE OWNER MAY REQUEST OR THE CONTRACTOR MAY DESIRE TO SUBSTITUTE ALTERNATE MATERIALS. ANY SUCH SUBSTITUTIONS MUST BE EQUIVALENT IN QUALITY TO THE MATERIAL CALLED FOR AND MUST BE APPROVED IN WRITING BY THE ENGINEER.
- THE CONTRACTOR SHALL REMOVE AND REPLACE ALL MAILBOXES, TRAFFIC SIGNS, ETC. AS REQUIRED FOR CONSTRUCTION. ALL COSTS ASSOCIATED FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES STIPULATED FOR THE VARIOUS ITEMS IN THE BID PROPOSAL

### TRAFFIC CONTROL

- THE CONTRACTOR SHALL PHASE CONSTRUCTION SUCH THAT AT A MINIMUM, ONE ACCESS LANE IS AVAILABLE FOR LOCAL VEHICULAR TRAFFIC. THE PAVEMENT SURFACE SHALL HAVE A UNIFORM SURFACE TO THE SATISFACTION OF THE VILLAGE ROADS SUPERINTENDENT. THE SAME ACCESS SHALL BE MAINTAINED TO ALL DRIVEWAYS. THE SURFACES SHALL CONSIST OF THE FOLLOWING MATERIALS:
  - 1.1. EXISTING PAVEMENT SURFACE.
  - 1.2. ODOT 304 LIMESTONE TEMPORARY TRENCH TOPPING. THE MAXIMUM TIME THAT THE
  - TEMPORARY SURFACE SHALL BE IN PLACE SHALL BE 19 CALENDAR DAYS. 1.3. PAVEMENT TRENCH REPAIR SECTION OF CLASS MS 301 ASPHALT BASE OR 305 CONCRETE
- ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH LATEST EDITION OF THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".
- 3. THE CONTRACTOR SHALL SUBMIT A PROPOSED TRAFFIC CONTROL PLAN FOR REVIEW AND ACCEPTANCE BY THE VILLAGE PRIOR TO BEGINNING WORK AND SHALL NOTIFY SAFETY SERVICES OF ANY TRAFFIC DISRUPTIONS.
- NO CHANGE IN TRAFFIC PATTERN SHALL BE MADE WITHOUT PRIOR NOTIFICATIONS TO THE TRAFFIC CONTROL OFFICER TWENTY-FOUR (24) HOUR ADVANCE SHALL BE GIVEN TO THE CHAGRIN FALLS POLICE DEPARTMENT AND MR. ROB JAMIESON AT (440) 247-5053.
- PROVIDE DETOUR PLAN FOR ALL CLOSURES OR PARTIAL CLOSURES.

### WATERMAIN CONSTRUCTION

- THE CONTRACTOR SHALL REMOVE ALL ABANDONED WATERMAIN CASTINGS FOR METERS, MANHOLES AND VALVES TO A MINIMUM OF ONE FOOT BELOW GRADE AND FILL THE REMAINING OPENING WITH COMPACTED SAND. THE CONTRACTOR SHALL REMOVE EXISTING HYDRANT AND HYDRANT VALVE ASSEMBLIES IN ONE PIECE AND DELIVER TO THE VILLAGE'S WATER DISTRIBUTION STORAGE AREA FOR DISASSEMBLY BY VILLAGE WORKERS.
- THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 1" SERVICE CONNECTION TO ALL PROPERTIES. UNDER NO CONDITIONS SHALL THE NEW SERVICE CONNECTION BE SMALLER THAN THE EXISTING LINE SIZE. THE ENTIRE SERVICE CONNECTION FROM THE CURB STOP TO THE NEW WATERLINE SHALL BE REPLACED, INCLUDING A NEW CURB BOX. ONLY CONTINUOUS PIPING FROM THE CORPORATION STOP TO THE CURB STOP WILL BE ALLOWED.

### SERVICE CONNECTIONS MATERIAL SPECIFICATIONS:

- 2.1. 1 INCH (MIN.) TYPE K COPPER (ALL FLARED FITTINGS)
- 2.2. SADDLE (FOR PVC TAPS) MUELLER B2RB.
- 2.3. CORPORATION STOP: MUELLER H15000.
- 2.4. CURB STOP: MUELLER H15204 W/ 2-PIECE 2<sup>1</sup>/<sub>2</sub> INCH CAST IRON BOX, SIZE 94-E WITH OLD STYLE TOP AND COVER. FOR 1½ AND 2 INCH SERVICES THE BOX SIZE IS 144-R.
- NEW WATER CONNECTIONS FOR BUILDINGS WITH A METER WITHIN THE RIGHT-OF-WAY SHALL HAVE THE CURB STOP PLACED ON THE WATERLINE SIDE OF THE METER, IF THE METER IS NOT DISTURBED BY THE WATERLINE CONSTRUCTION. IF THE METER MUST BE MOVED, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND THE VILLAGE'S WATER DEPARTMENT. AND PLACE THE CURB STOP ON THE WATERLINE SIDE OF THE METER.
- SIDE STREET WATERMAIN VALVES MAY BE CLOSED IF THEY CAN BE SUPPLIED FROM THE OTHER DIRECTION. CONTRACTOR SHALL COORDINATE WITH THE VILLAGE'S WATER DEPARTMENT AND PROVIDE 24 HOURS NOTICE FOR ANY PLANNED SERVICE DISRUPTION TO WATER CUSTOMERS WITH AN APPROVED FORM LETTER/DOOR HANGER. CONTRACTOR SHALL PROVIDE TEMPORARY SERVICE FOR STREETS AS REQUIRED.
- A MINIMUM OF 35 PSI SHALL BE MAINTAINED TO THE CURB STOP DURING NORMAL OPERATING CONDITIONS.
- BOOSTER PUMPS ARE NOT PERMITTED ON SERVICE CONNECTIONS.

### SEWER CONSTRUCTION

- TESTING SHALL NOT EXCEED 5% ACCORDING TO PLAN SPECIFICATIONS.
- 2. STORM SEWER 12 INCHES AND GREATER SHALL BE HIGH PERFORMANCE POLYPROPYLENE ASTM D3212 FOR WATER TIGHT INSTALLATION OR UNLESS OTHERWISE NOTED.
- EQUAL.
- 4. MANHOLE SECTION JOINTS MUST MEET ASTM C-443.
- BACKFILL DETAIL.
- 6. WHEN A SEWER AND WATERLINE CROSS AND IT IS NOT POSSIBLE TO MAINTAIN AN 18 INCH
- PVC SDR 26 PIPE SHALL BE USED FOR REPLACEMENT OF SANITARY & STORM LATERAL 7 CROSSING SEWER TRENCH, WITH PREMIUM 3 BAND ADAPTOR COUPLINGS.
- ITEMS IN THE BID PROPOSAL.
- 9. INCLUDED IN THE PRICE FOR CONDUIT ITEM AND WILL NOT BE PAID FOR SEPARATELY.
- 10. THE FOLLOWING NOTES APPLY TO SANITARY LATERAL RECONNECTIONS
- ACTIVE REGARDLESS OF THE METHOD(S) UTILIZED.
- ASSURE PROPER CONNECTIONS TO THE SANITARY SEWER.
- 10.4. NO INACTIVE LATERALS SHALL BE RECONNECTED TO THE NEW SEWER.
- 10.5. LOCATOR TAPE SHALL BE INSTALLED ON ALL SANITARY SERVICE LATERALS.
- PROVIDED WITH UNEDITED VIDEO AND TWO (2) COPIES OF THE VIDEO LOG.
- 10.7. ELIMINATE ANY DISCONNECTED WYE'S TO LOTS THAT HAVE AN EXISTING HOUSE.
- LATERAL SHALL BE PROVIDED WITH A WYE POLE.

### EXCAVATION, BACKFILL, AND SEWER REPLACEMENT

- MATERIAL
- 2 REQUIREMENTS OF THE CONTRACT.
- 3. BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED USING MACHINE MOUNTED ODOT 203.
- 4 EQUIPMENT BEING USED. FLOODING, JETTING OR PUDDLING OF BACKFILL WILL NOT BE PERMITTED.
- BE PAID TO THE CONTRACTOR FOR ROCK OR SHALE EXCAVATION.
- TO MAKE HIS DETERMINATION.
- BE TRUCKED TO THE VILLAGE SERVICE DEPARTMENT.

### **VEGETATION/TREE PROTECTION**

- ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE VILLAGE.
- LIMITED TO THE ROAD RIGHT-OF-WAY AND EASEMENTS.
- 3. NO TREE REMOVAL WILL BE PERMITTED WITHOUT PERMISSION OF THE ENGINEER AND THE PROPERTY OWNER.
- 4. TREES WHICH ARE NOT REMOVED WILL BE PROTECTED BY ENSURING THAT TREES TO BE REMOVED ARE FELLED SO AS NOT TO INJURE THE REMAINING TREES.
- OR WITHIN THE DRIP-LINE OF TREES.
- SPECIES USING TREE HABITAT.

SANITARY & STORM SEWER (LESS THAN 12 INCHES IN DIA.) SHALL BE PVC SDR 26 - ASTM 3034 WITH ASTM D3212, F477 WATER-TIGHT, FLEXIBLE GASKET JOINTS. SEWER PIPE BEDDING SHALL BE AS PER THE TRENCHING, EMBEDMENT, AND BACKFILL DETAIL. PVC SEWER DEFLECTION

(HPPP) DUAL WALL, SMOOTH INTERIOR, WT PIPE WITH BELL AND SPIGOT JOINTS THAT MEET

3. SEWER MAIN CONNECTIONS TO EXISTING SEWERS SHALL BE MADE WITH FERNCO COUPLINGS WITH SS SHEAR BANDS TO MATCH PROPOSED/EXISTING PIPE SIZES AND TYPE OR AN APPROVED

5. BACKFILL SHALL BE AS PER SPECIFICATIONS AND AS PER THE TRENCHING, EMBEDMENT, AND

VERTICAL CLEARANCE BY WATERMAIN LOWERING, EITHER THE WATERMAIN OR THE SEWER SHALL BE ENCASED IN A WATERTIGHT CARRIER PIPE WHICH EXTENDS 10 FEET ON BOTH SIDES OF THE CROSSING, MEASURED PERPENDICULAR TO THE WATERMAIN. THE CARRIER PIPE SHALL BE OF MATERIALS APPROVED BY THE O.E.P.A. FOR USE IN WATER MAIN CONSTRUCITON.

8. THE COST FOR FURNISHING ALL MATERIAL AND LABOR TO PERFORM ALL WORK STATED IN PARAGRAPHS 4.01 TO 4.05 SHALL BE INCLUDED IN THE BID PRICES STIPULATED FOR VARIOUS

EXISTING PIPE REMOVED WITHIN TRENCH LIMITS FOR PLACEMENT OF PROPOSED PIPE SHALL BE

10.1. LOCATIONS OF EXISTING SANITARY LATERALS ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD LOCATE ALL EXISTING SANITARY LATERALS AT NO ADDITIONAL COST TO THE VILLAGE.

10.2. CERTAIN HOUSES AND/OR PROPERTIES ARE KNOWN TO HAVE ONE OR MORE LATERALS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE (VIA TELEVISING, DYE TESTING, ELECTRONIC LOCATING DEVICE OR OTHER APPROPRIATE METHODS) WHICH LATERAL OR LATERALS ARE ACTIVE, AND TO RECONNECT THE ACTIVE LATERALS. THE COST FOR THE ABOVE WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR LATERAL RECONNECTION. NO ADDITIONAL PAYMENT FOR DETERMINING WHICH LATERALS ARE

10.3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND TESTING EACH LATERAL TO

10.6. FINAL TELEVISION INSPECTION OF CONDUIT SHALL BE PERFORMED BY AN EXPERIENCED COMPANY AND IN A FORMAT SATISFACTORY TO THE OWNER. THE ENGINEER SHALL BE

10.8. IF A VACANT LOT IS WITHIN THE SECTION OF THE SEWER THAT IS BEING LINED, A NEW

10.9. ALL SANITARY LINING SHALL BE DONE STRICTLY WITHIN MANUFACTURERS SPECIFICATIONS.

1. BACKFILL FOR ALL UNDERGROUND UTILITIES INSTALLED UNDER PAVEMENT, SIDEWALK, AND STRUCTURES OR WITHIN A 1:1 ZONE OF INFLUENCE PARALLEL OR TRANSVERSE TO PAVEMENT SIDEWALK OR STRUCTURES SHALL BE " COMPACTED BACKFILL" OR "COMPACTED GRANULAR BACKFILL" AS DESCRIBED IN SPECIFICATIONS, IF DIRECTED BY THE ENGINEER. ON-SITE SOILS MAY BE USED FOR "COMPACTED BACKFILL" MATERIALS. IF APPROVED BY THE ENGINEER. NO SLAG OR RECYCLED CONCRETE PRODUCTS WILL BE PERMITTED FOR BEDDING OR BACKFILL

BACKFILL SHALL BE COMPACTED IN LAYERS NOT EXCEEDING 9" IN DEPTH. BACKFILL MATERIAL SHALL BE PLACED WITH 2% OF THE OPTIMUM MOISTURE. THE ENGINEER MAY ORDER THE REMOVAL, REFILLING, RE-COMPACTION AND RETESTING OF ALL BACKFILL NOT MEETING THE

COMPACTION EQUIPMENT IN LAYERS SUFFICIENT TO MEET THE COMPACTION REQUIREMENT

NO BACKFILLING OF ANY TRENCHES OR EXCAVATIONS WILL BE PERMITTED WITHOUT TAMPING

5. ALL EXCAVATION SHALL BE CONSIDERED UNCLASSIFIED. NO ADDITIONAL COMPENSATION SHALL

6. THE OWNER AND THE ENGINEER DO NOT GUARANTEE THE SUITABILITY OR SUGGEST THAT THE EXISTING EXCAVATED MATERIAL IN ITS PRESENT STATE WILL CONSIST OF THE PROPER MOISTURE CONTENT TO ACHIEVE THE REQUIRED COMPACTION WITHOUT DRYING OR ADDING WATER TO THE MATERIAL. UPON REQUEST, THE OWNER WILL PROVIDE ACCESS TO THE SITE FOR THE CONTRACTOR TO CONDUCT SUCH INVESTIGATIONS AND TESTS DEEMED NECESSARY

7. THE CONTRACTOR SHALL REPLACE ANY PAVEMENT MARKINGS, SUCH AS CROSS WALKS, STOP LINES, EDGE LINES, CENTER LINES, ETC. ANY PAVEMENT REMOVED CONTAINING BRICKS SHALL

1. ANY EXTENSIVE LANDSCAPING DISTURBED BY CONSTRUCTION WORK SHALL BE RESTORED TO

2. TREE REMOVAL SHALL BE LIMITED TO THAT NECESSARY FOR CONSTRUCTION AND WILL BE

5. AT NO TIME SHALL SOIL, CONSTRUCTION EQUIPMENT OR OTHER MATERIAL BE STORED NEXT TO

6. TREES SHOULD BE CUT SEASONALLY, BETWEEN OCTOBER 1 TO MARCH 30 TO AVOID IMPACTING BAT

### SERVICE CONNECTIONS

ALL SANITARY AND WATER SERVICE CONNECTIONS SHOWN ON THE PLAN WERE DERIVED FROM VILLAGE RECORDS. THE CONTRACTOR SHALL LOCATE AND VERIFY ALL CONNECTIONS PRIOR TO REPLACEMENT. SANITARY LATERAL REPLACEMENT AND WATER SERVICE CONNECTION REPLACEMENT SHALL DISTURB NO MORE THAN 50 S.F. OF SIDEWALK AND 10 LF OF CURB PER LATERAL OR CONNECTION REPLACED. ALL ACTIVE CONNECTIONS AND HOUSE LATERALS ENCOUNTERED SHALL BE RECONNECTED TO EXISTING FACILITIES OR CONNECTED TO THE NEW FACILITIES, EVEN IF NOT SHOWN ON THE PLANS. UNLESS OTHERWISE DIRECTED BY THE VILLAGE ENGINEER.

ALL EXISTING UTILITY SERVICE CONNECTIONS (SANITARY, STORM, WATER, GAS, ELECTRIC, TELEPHONE, ETC.) WHICH ARE DAMAGED DURING THE INSTALLATION OF PIPE SHALL BE REPAIRED WITH LIKE MATERIALS OR REPLACED, AS REQUIRED. THE COST OF UTILITY SERVICE CONNECTION REPAIR/REPLACEMENT SHALL BE INCLUDED IN THE UNIT PRICES FOR ALL ITEMS IN THE PROPOSAL.

ALL UTILITY LINES CROSSING THE NEW TRENCH SHALL BE PROTECTED AND SUPPORTED WITH HARDWOOD PLANKS; OR REMOVED, REPLACED, RECONNECTED AND SUPPORTED ACROSS THE ENTIRE WIDTH OF THE TRENCH. IF ANY OF THESE LINES ARE DAMAGED DURING CONSTRUCTION, THEY SHALL BE REPLACED IN-KIND.

THE CONTRACTOR SHALL BE REQUIRED TO BYPASS AND MAINTAIN THE FLOW TO/FROM ALL HOUSE UTILITY CONNECTIONS DURING CONSTRUCTION.

THE CONTRACTOR SHALL EXPECT ONE UNDERGROUND GAS AND WATER CONNECTION FOR EACH LOT (INCLUDING VACANT LOTS) ON BOTH SIDES OF THE STREET FOR THE ENTIRE PROJECT LENGTH.

THE CONTRACTOR SHALL SUPPLY ALL PIPE AND ADAPTERS TO CONNECT TO EXISTING PIPING. THE ADAPTERS MUST BE SUBMITTED TO AND APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.

THE COST OF UTILITY RELOCATION, REPLACEMENT, AND/OR SUPPORT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS OF WORK EXPECT WHEN BID AS A SEPARATE ITEM.

### UTILITIES

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS HAVE BEEN OBTAINED BY DILIGENT FIELD CHECKS AND SEARCHES OF AVAILABLE RECORDS IN ACCORDANCE WITH SECTION 153.64 OF THE OHIO REVISED CODE. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT THE VILLAGE OF CHAGRIN FALLS DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS.

BEFORE ANY WORK IS STARTED THAT WILL INTERFERE WITH THE EXISTING UTILITIES, THE CONTRACTOR SHALL CALL THE "OHIO UTILITIES PROTECTION SERVICE" AT 1-800-362-2764. FORTY-EIGHT (48) HOURS IN ADVANCE OF THE WORK IN ACCORDANCE WITH SECTION 153.64 OF THE OHIO REVISED CODE. NON-MEMBER UTILITIES MUST BE CONTACTED DIRECTLY. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS, AT NO ADDITIONAL EXPENSE TO THE VILLAGE OF CHAGRIN FALLS, TO AVOID DAMAGE TO EXISTING UNDERGROUND AND OVERHEAD UTILITIES DURING THE ENTIRE PROJECT. IN THE EVENT OF DAMAGE TO EXISTING PUBLIC AND/OR PRIVATE UTILITIES, THE AGENCY CONCERNED SHALL BE NOTIFIED IMMEDIATELY AND ALL REPAIR WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE RESPECTIVE AGENCY AT NO ADDITIONAL COST TO THE VILLAGE, INCLUDING ANY INSPECTION OR MAINTENANCE FEES.

WHERE EXISTING POWER OR TELEPHONE POLES ARE IN CLOSE PROXIMITY TO WORK, THE CONTRACTOR SHALL COORDINATE HIS WORK EFFORTS WITH THOSE OF THE UTILITY COMPANIES SUCH THAT THEIR EXISTING FACILITIES CAN BE MAINTAINED AND PROTECTED DURING THE TIME THAT WORK IS GOING ON ADJACENT TO THE POLE(S).

THE COST AND COORDINATION FOR ANY REQUIRED PROTECTION, SUPPORT OR RELOCATION OF EXISTING POWER OR TELEPHONE POLES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

DELAYS TO THE CONTRACTOR AS A RESULT OF TIMING OF POLE RELOCATION, SUPPORT OR PROTECTION SHALL NOT BE CONSIDERED COMPENSABLE DELAYS, AS IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS WORK IN CONFORMANCE TO THE UTILITY COMPANY'S SCHEDULE.

THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITIES AFFECTED BY THE PROPOSED CONSTRUCTION.

DOMINION EAST OHIO

MAPLE HEIGHTS, OH 44137

ATTN.: LOUIE RUBERTINO

(216) 581-3262

THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF THE EXISTING UTILITY OWNERS LISTED BELOW AND THE UTILITY PROTECTION SERVICE IN ACCORDANCE WITH SECTION 153.64 OF THE OHIO REVISED CODE AND OUTLINED IN PROJECT SPECIFICATIONS. THE UTILITY OWNERSHIPS ARE AS FOLLOWS

320 SPRINGSIDE DRIVE, STE. 320

AT&T

13630 LORAIN AVE., 2ND FLOOR

CLEVELAND, OH 44111

ATTN.: JAMES JANIS

(216) 476-6142

VILLAGE OF CHAGRIN FALLS 301 MEADOW STREET CHAGRIN FALLS, OHIO 44022 (440) 247-5051

AKRON, OH 44333 ATTN.: WILLIAM SNYDER (330) 664-2409 CHARTER COMMUNICATIONS THE ILLUMINATING COMPANY 14300 S. INDUSTRIAL AVENUE

7755 AUBURN RD. PAINESVILLE, OH 44077 ATTN.:FRED RANDOLPH (440) 358-4991

### PROPERTY PINS AND MONUMENTS

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EMPLOY A REGISTERED SURVEYOR TO LOCATE, RECORD, AND MARK ALL EXISTING MONUMENTS AND PROPERTY CORNERS WITHIN THE CONSTRUCTION LIMITS OF THE PROPOSED WORK AREA. A LISTING OF THE PINS AND MONUMENTS SHALL BE SUPPLIED TO THE VILLAGE ENGINEER PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL PROTECT ALL PINS AND MONUMENTS DURING CONSTRUCTION. IF PINS AND MONUMENTS ARE DISTURBED DURING CONSTRUCTION, THE CONTRACTOR SHALL HAVE THEM REPLACED BY THE REGISTERED SURVEYOR AT NO ADDITIONAL COST TO THE VILLAGE.

### **EXCESS EXCAVATION**

1. ALL EXCESS EXCAVATION SHALL BE DISPOSED OF IN A LOCATION TO BE SELECTED BY THE CONTRACTOR. THE CONTRACTOR MUST OBTAIN A PERMIT FROM THE VILLAGE OF CHAGRIN FALLS IF THE MATERIAL IS TO BE DISPOSED OF WITHIN THE VILLAGE LIMITS.

### **AIR/NOISE CONTROL**

1. CONSTRUCTION ACTIVITIES WILL BE LIMITED FROM 7 AM TO 7 PM, UNLESS APPROVED IN ADVANCE BY THE VILLAGE.

### SPECIAL

- 1. ALL APRONS AND CURB SHALL BE CLASS MS QC-1 CONCRETE
- ALL PAVEMENT GRINDINGS SHALL BE DELIVERED TO THE STREETS AND SERVICE DEPARTMENT 2 AT 240 SOLON ROAD. A MINIMUM OF 48 HOUR ADVANCE COORDINATION WITH THE STREETS SUPERINTENDENT AT 440-247-1169 IS REQUIRED.

### PROHIBITED CONSTRUCTION ACTIVITIES

- CLEAR ACCESS:
- 5.2.
- 5.4.

### CONTINGENCY ITEMS

1.4. TEMPORARY WATER MAIN IS NOT REQUIRED IF THE CONTRACTOR CAN CONSTRUCT THE PROPOSED IMPROVEMENTS WITHOUT INTERRUPTIONS TO THE WATER SUPPLY. THE CONTRACTOR IS REQUIRED TO MAINTAIN THE REQUIRED SYSTEM WATER PRESSURE AND SERVICES TO ALL RESIDENTS THROUGHOUT THE ENTIRE DURATION OF CONSTRUCTION.

### EROSION AND DUST CONTROL

SEDIMENT CONTROL SHALL BE ACCOMPLISHED BY SODDING AND MULCHING IMMEDIATELY UPON COMPLETION OF EXCAVATION OR FILL AND FINISH GRADING IN ACCORDANCE WITH ODOT ITEM 659 OR AS DIRECTED BY THE ENGINEER.

2. THE CONTRACTOR SHALL BEGIN THE RESTORATION PROCESS AS SOON AS CONSTRUCTION IS COMPLETED, PERMANENTLY STABILIZING EACH DISTURBED AREA WITH PERENNIAL VEGETATION INSTALLED ACCORDING TO SOIL CONSERVATION SERVICE STANDARDS AND SPECIFICATIONS.

3. THE CONTRACTOR SHALL REMOVE DAILY ALL MUD, SOIL AND DEBRIS THAT MAY BE TRACKED ONTO EXISTING STREETS OR DRIVES BY HIS EQUIPMENT OR THAT OF SUBCONTRACTORS OR SUPPLIERS.

ALL MATERIALS TO BE DISPOSED OF OFF-SITE MUST BE DISPOSED OF IN AN ENVIRONMENTALLY SOUND MANNER IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. NO EXCESS MATERIALS ARE TO BE DISPOSED OF IN ANY WETLAND, FLOOD PLAIN OR OTHER ENVIRONMENTALLY SENSITIVE AREA.

EROSION CONTROL MEASURES AT THE DISPOSAL SITE MUST BE INSTALLED AND MAINTAINED UNTIL DISPOSAL IS COMPLETE AND THE DISPOSAL SITE IS PERMANENTLY STABILIZED.

6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO APPLY, WHEN ORDERED BY THE ENGINEER, WATER OR CALCIUM CHLORIDE FOR THE REDUCTION OF DUST NUISANCE ORIGINATING FROM HIS CONSTRUCTION ACTIVITIES. SUFFICIENT QUANTITIES OF CALCIUM CHLORIDE OR WATER SHALL BE STORED ON THE JOBSITE AT ALL TIMES TO BE USED FOR DUST CONTROL UNTIL THE AREA IS SEEDED. THE COST OF WATER OR CALCIUM CHLORIDE DUST CONTROL SHALL BE INCLUDED IN THE APPROPRIATE UNIT BID PRICE.

1. DISPOSING OF EXCESS OR UNSUITABLE EXCAVATED MATERIAL IN WETLANDS OR FLOODPLAINS, EVEN WITH THE PERMISSION OF THE PROPERTY OWNER.

2. LOCATING STOCKPILE STORAGE AREAS IN ENVIRONMENTALLY SENSITIVE AREAS.

3. DAMAGING VEGETATION OUTSIDE OF THE CONSTRUCTION AREA.

4. DISPOSING OF TREES, BRUSH AND OTHER DEBRIS IN ANY STREAM CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS OR AT UNSPECIFIED LOCATIONS.

5. CLOSING OFF CLEAR ACCESS TO ANY PUBLIC ALLEY, STREET, ROAD, AVENUE OR BOULEVARD WITHOUT THE PRIOR CONSENT OF MUNICIPAL OFFICIALS AND THE ENGINEER, AND CLOSING

5.1. BY FIRE PROTECTION AND EMERGENCY VEHICLES;

BY THE PUBLIC TO ANY COMMERCIAL OR PROFESSIONAL PLACE OF BUSINESS, QUASI-PUBLIC OR PUBLIC ESTABLISHMENT, OR PLACE OF RESIDENCE; OR

5.3. BY VEHICLES TO DRIVEWAYS WITHOUT THE PROVISION OF ALTERNATIVE MEANS OF BUILDING INGRESS AND EGRESS.

CONSTRUCTION STAGING OF VEHICLES, SOIL, OR CONSTRUCTION MATERIALS SHOULD NOT BE ON OR NEAR THE RIVERBANK AS WELL

1. THE FOLLOWING QUANTITIES HAVE BEEN CARRIED OVER TO THE BID PROPOSAL ITEMS AND ARE TO BE USED ONLY AS DIRECTED BY THE ENGINEER:

1.1. THE FOLLOWING QUANTITY IS IN THE BID FOR ADDITIONAL PAVEMENT REPLACEMENT THAT MAY BE NECESSARY DUE TO THE WORK ASSOCIATE WITH THE PROJECT: 1.1.1. TYPE C PAVEMENT REPLACEMENT - 20 SY

1.2. THE FOLLOWING QUANTITY IS IN THE BID FOR CURB INLET ADJUSTED TO GRADE : 1.2.1. (611) CURB INLET ADJUSTED TO GRADE - 1 EACH

1.3. THE FOLLOWING QUANTITY IS IN THE BID FOR 12 INCH STORM SEWER RECONNECTED 1.3.1. 6 INCH STORM SEWER CONNECTION TO MAIN, AS PER PLAN - 2 EA

### WORK NEAR EXISTING GAS LINES

IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE LATERAL AND SUBJACENT SUPPORT OF ENBRIDGE'S PIPELINE(S), IN COMPLIANCE TO 29 CFR, PART 1926, SUBPART P, (SAFE EXCAVATION & SHORING). EXTREME CARE SHOULD BE TAKEN NOT TO HARM ANY ENBRIDGE FACILITY (PIPELINES, ETC.) OR APPURTENANCE (PIPE COATING, TRACER WIRE, CATHODIC PROTECTION TEST STATION WIRES & DEVICES, VALVE BOXES, ETC.). ENBRIDGE FACILITIES MUST BE PROTECTED WITH A TARP DURING BRIDGE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE AND LIABLE FOR ENSURING THAT ALL ENBRIDGE EXISTING FACILITIES, ABOVE AND BELOW GROUND, REMAIN UNDAMAGED. ACCESSIBLE AND IN WORKING ORDER. THE CROSSING OF ENBRIDGE'S PIPELINE(S) WITH ANOTHER STEEL FACILITY MAY CREATE A POTENTIAL CORROSION ISSUE FOR THE PROPOSED FACILITY AND THE EXISTING ENBRIDGE FACILITY. PLEASE CONTACT ENBRIDGE'S CORROSION DEPARTMENT AT LEAST TWO (2) WORKING DAYS BEFORE CONSTRUCTION AT: CORROSIONGIS@DOMINIONENERGY.COM

	VILLAGE OF CHAGRIN FALLS	ISSUED FOR: BI	BID NO	REVISION	DATE		
		ISSUE DATE: 5/27/25	/25				
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		PC	DINT TABLE	E
POINT #	NORTHING	EASTING	ELEVATION	
1	645299.5772	2273285.9635	966.28	
2	645799.0378	2273949.1986	979.22	
3	645584.0427	2273606.2037	969.91	
4	645387.4052	2273408.3060	965.22	
12	645798.9569	2273949.4435	979.11	
13	645584.1106	2273606.2776	969.79	
30	645145.2532	2273183.1836	965.42	Monum
31	645774.1311	2273984.7534	985.54	
36	645849.8239	2273929.0601	964.46	
37	645784.5714	2273808.9666	956.76	
38	645777.3877	2273931.0549	980.31	
39	646081.0420	2273998.3807	954.62	
40	645063.2864	2272971.5308	957.75	

EAST ORANGE STREET 60'

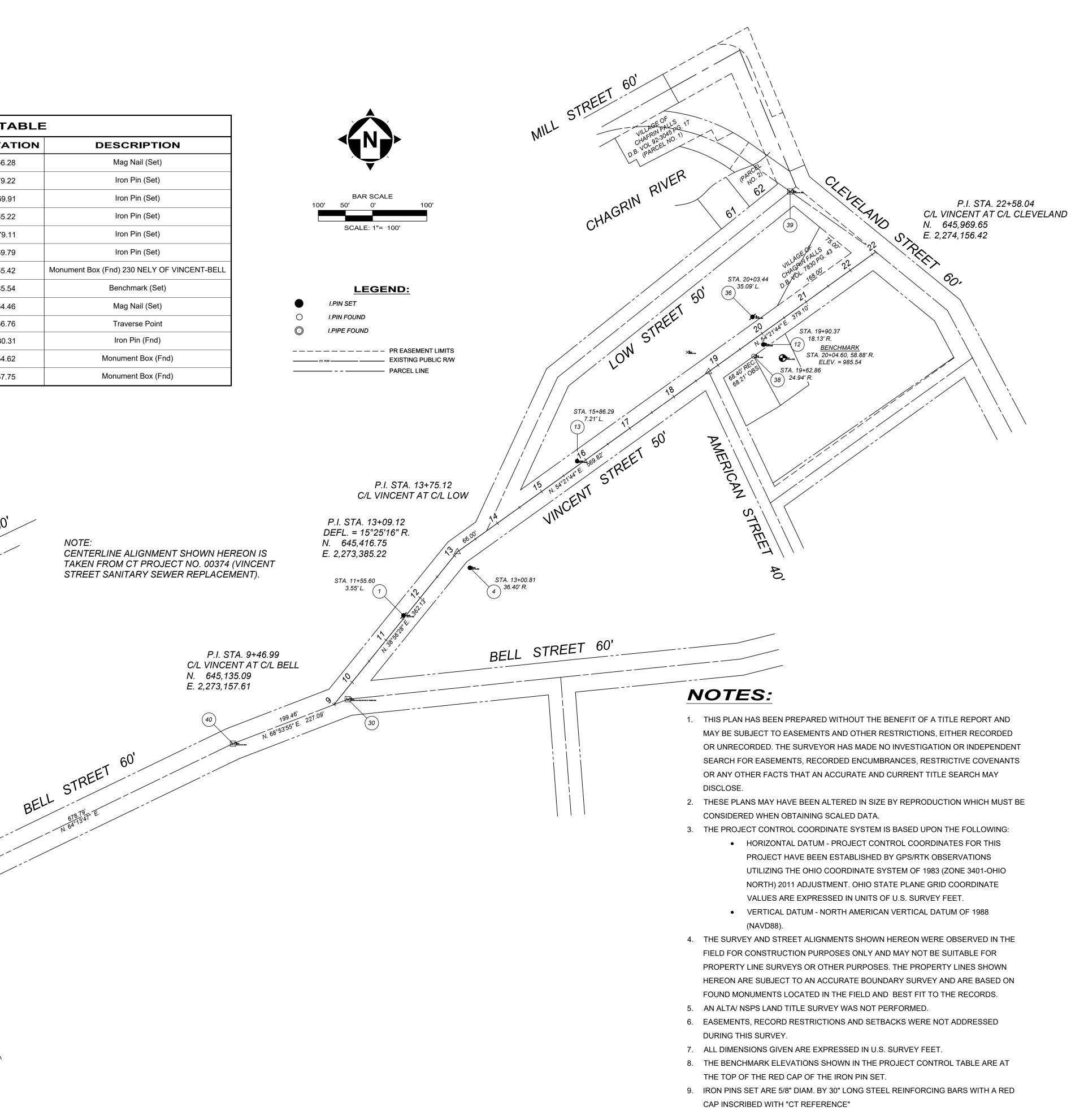
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MAIN

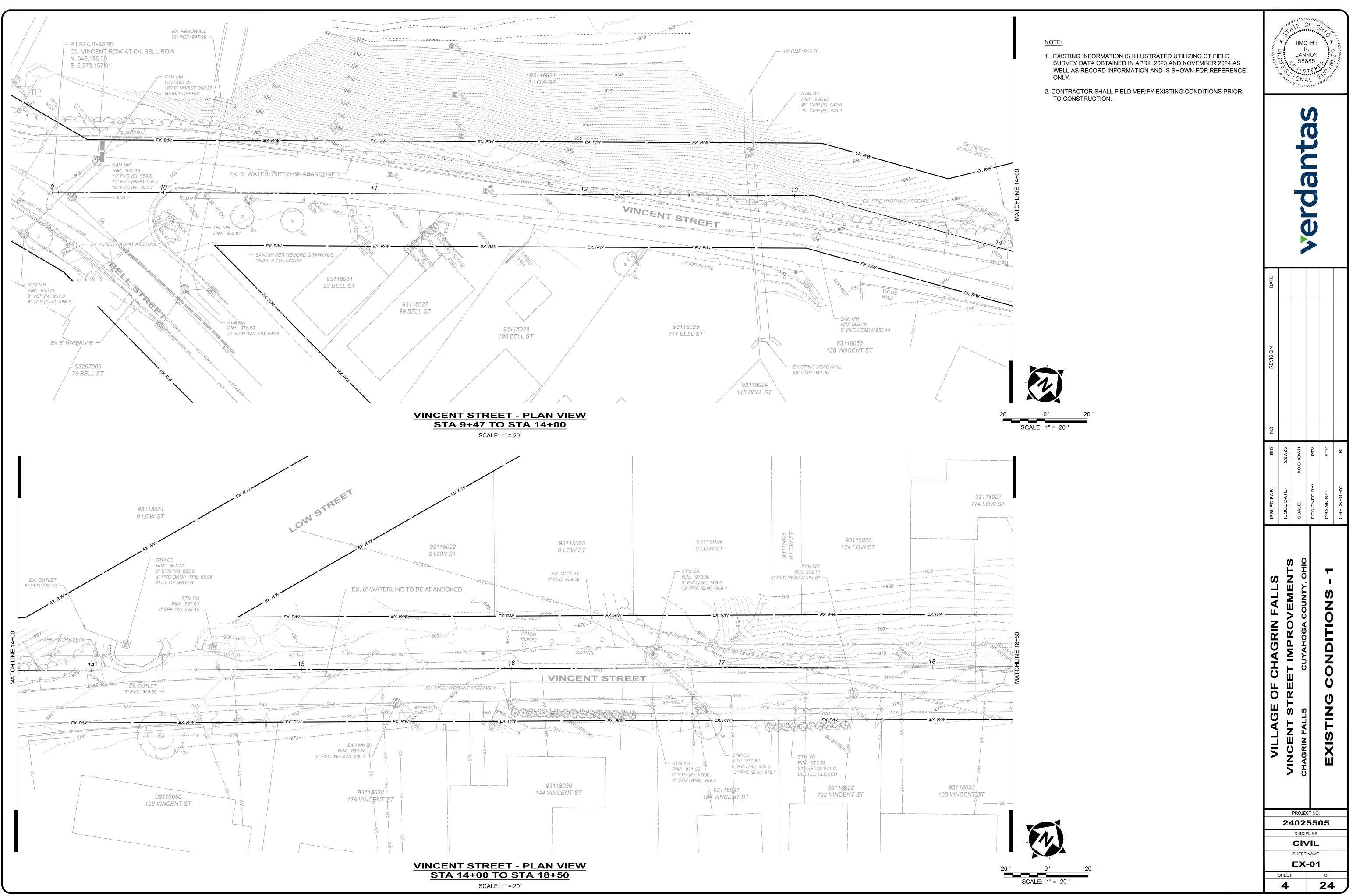
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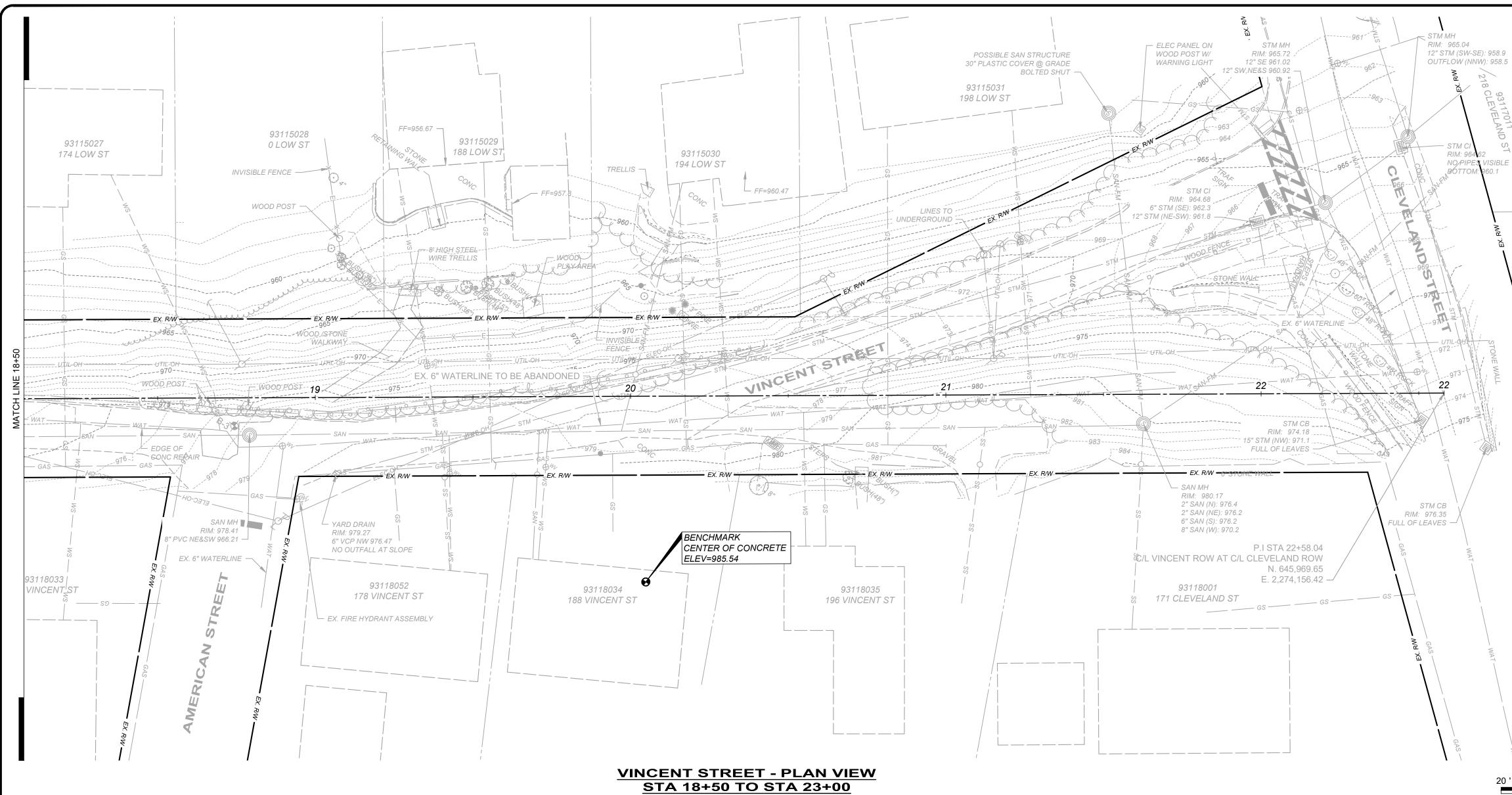
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			VILLAGE OF CHAGRIN FALLS	ISSUED FOR:	BID	ON	REVISION	DATE	
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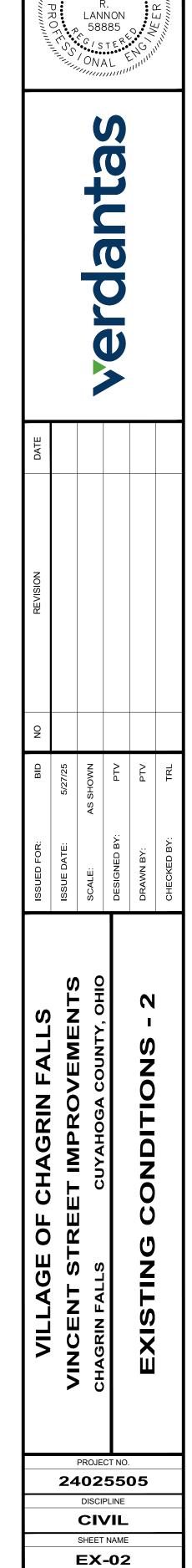


SCALE: 1" = 20'

NOTE:

SIBLE

- 1. EXISTING INFORMATION IS ILLUSTRATED UTILIZING CT FIELD SURVEY DATA OBTAINED IN APRIL 2023 AND NOVEMBER 2024 AS WELL AS RECORD INFORMATION AND IS SHOWN FOR REFERENCE ONLY.
- 2. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION.



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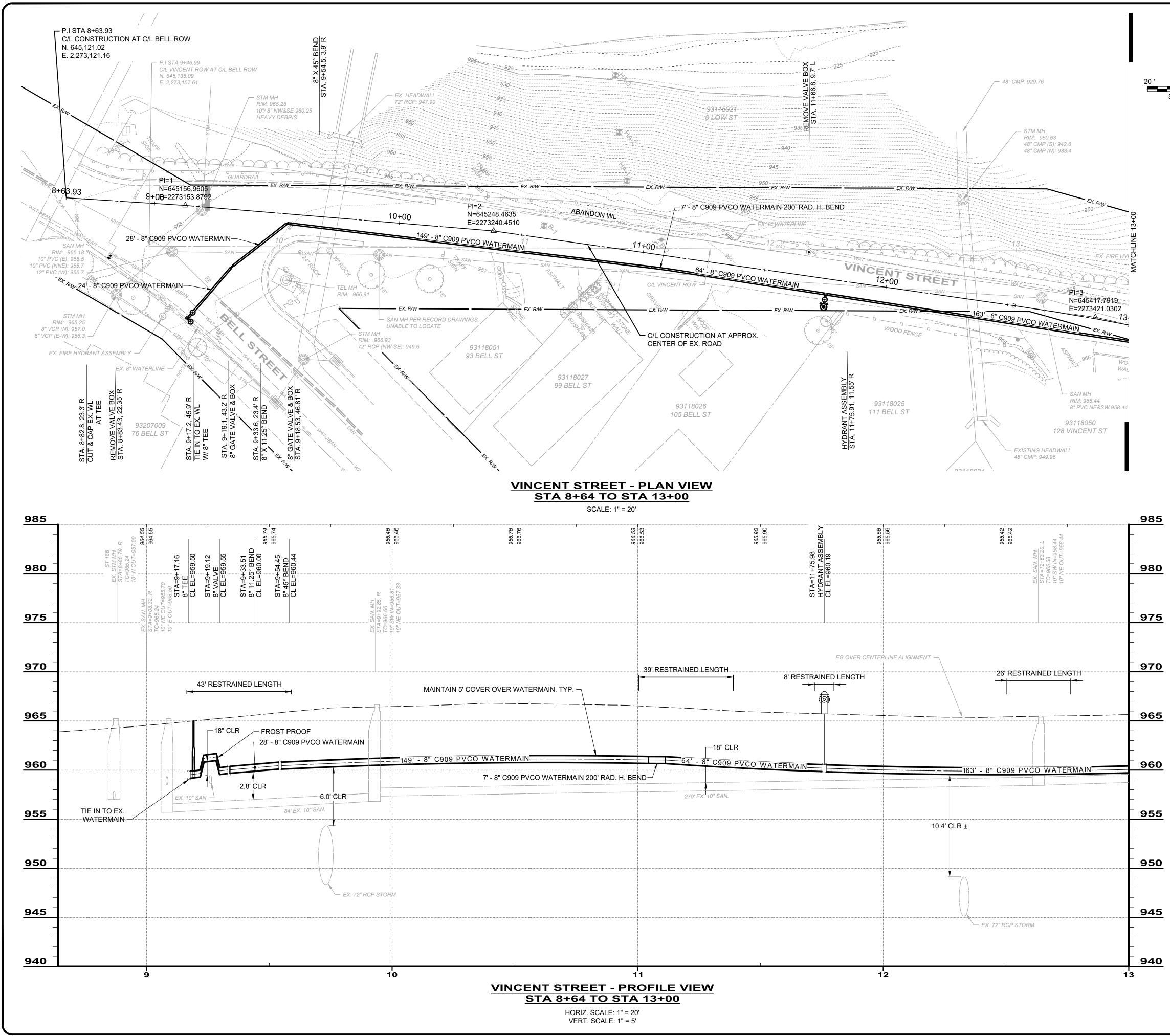
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20 ' 20 '

SCALE: 1" = 20 '



0'	20 '
SCALE: 1" = 20 '	

**IMPROVEMENTS NOTES:** 

- 1. PROPOSED WATER LINE IMPROVEMENT LOCATIONS ARE APPROXIMATE AND MAY BE ADJUSTED PER FIELD CONDITIONS, AS APPROVED BY THE ENGINEER. WATERMAINS SHALL BE INSTALLED A MINIMUM DEPTH OF 5' BELOW GRADE AND MAINTAIN A MINIMUM OF 10' HORIZONTAL SEPARATION FROM THE NEAREST SANITARY SEWER.
- 2. ANY ENCOUNTERED ROOF DRAINS SHALL BE RE-CONNECTED TO THE EXISTING OR PROPOSED STORM SEWER, WHICHEVER IS CLOSER.
- 3. ALL PARCELS WITHIN THE PROJECT AREA SHALL BE CONSIDERED TO HAVE ONE (1) OF EACH SERVICE LINE/LATERAL (WATER, SANITARY, STORM) TO BE PRESENT, WHETHER ILLUSTRATED IN THE PLANS OR NOT. IF NOT ILLUSTRATED IN THE PLANS, THE CONTRACTOR IS EXPECTED TO FIELD LOCATE PRIOR TO CONSTRUCTION.
- 4. ALL WATER SERVICE LINES SHALL BE REPLACED UP TO THE CURB STOP AND CONNECTED TO THE PROPOSED WATERMAIN. CURB STOPS SHALL BE POSITIONED WITHIN THE EXISTING TREE LAWN, WHERE POSSIBLE. SEE DETAIL.
- 5. AT LOCATIONS WHERE THE PROPOSED 8" WATERMAIN CONNECTS TO THE EXISTING WATERMAIN, CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATIONS TO EXPOSE/INVESTIGATE THE TIE-IN LOCATIONS TO BE INCLUDED IN THE COST OF THE WATERMAIN ITEMS. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY POSSIBLE CONFLICTS. AT THIS TIME THE ENGINEER SHALL ADJUST THE LOCATION OF THE TIE-IN AND NO ADDITIONAL COST OR DEDUCTION SHALL BE ADDED TO THE CONTRACT.
- CONTRACTOR SHALL VERIFY UTILITY ELEVATIONS AT CROSSINGS AND DEFLECT WATERMAIN AS NECESSARY TO MAINTAIN A MINIMUM CLEARANCE 18 INCHES. MAXIMUM PIPE DEFLECTION OF THE WATERMAIN SHALL BE 15" PER FULL PIPE LENGTH. IN LIEU OF PIPE DEFLECTION, 8" X 11.25°, 22.5°, 45° BENDS MAY BE USED. RESTRAINT LENGTHS HAVE BEEN SHOWN FOR THE 3 FITTINGS AND SHALL APPLY BASED ON CONTRACTORS USE OF BENDS.
- 9. CONTRACTOR SHALL MAINTAIN 10' MIN. HORIZONTAL AND 18 INCH VERTICAL CROSSING CLEARANCE FROM STORM AND SANITARY SEWERS.
- 10. INSTALLATION AND PRESSURE TESTING SHALL BE IN ACCORDANCE WITH AWWA C-605. DISINFECTION SHALL BE PER AWWA C-651.
- 11. THE CUTTING & CAPPING OF WATERMAIN SHALL BE INCIDENTAL TO THE UTILITY ITEM BEING INSTALLED AND CROSSING THE EXISTING MAIN. A UNIT PRICE OF 1 CUT & CAP SHALL BE UTILIZED IF IT IS DETERMINED THAT THERE IS A NEED FOR ADDITIONAL LOCATIONS.

FIRE HYDRANT ASSEMBLY (MATCH EX. LOCATION) VALVE BOX WATER SERVICE LINE REPLACEMENT AND APPROX. POSITION OF CORP. STOP

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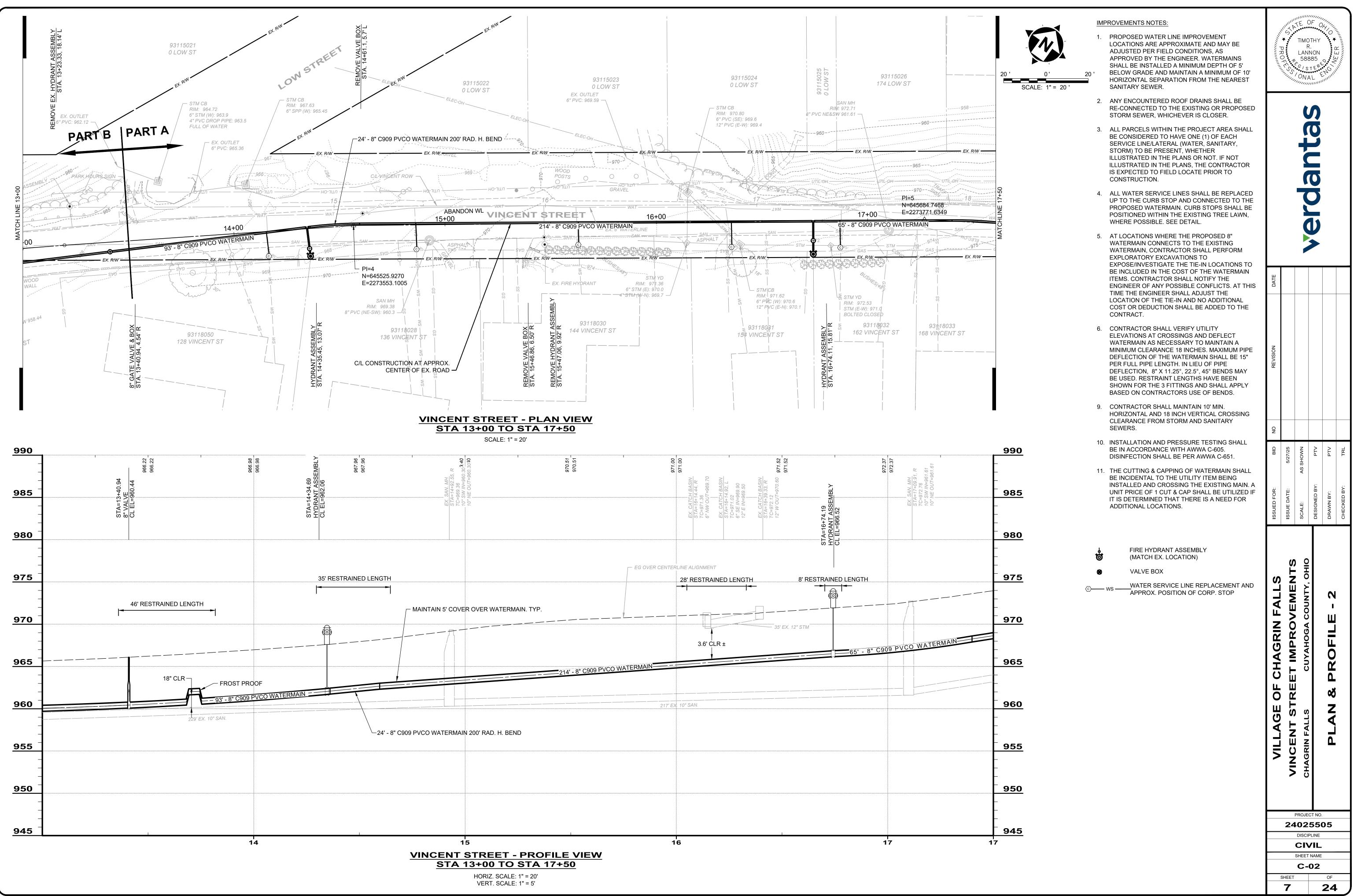
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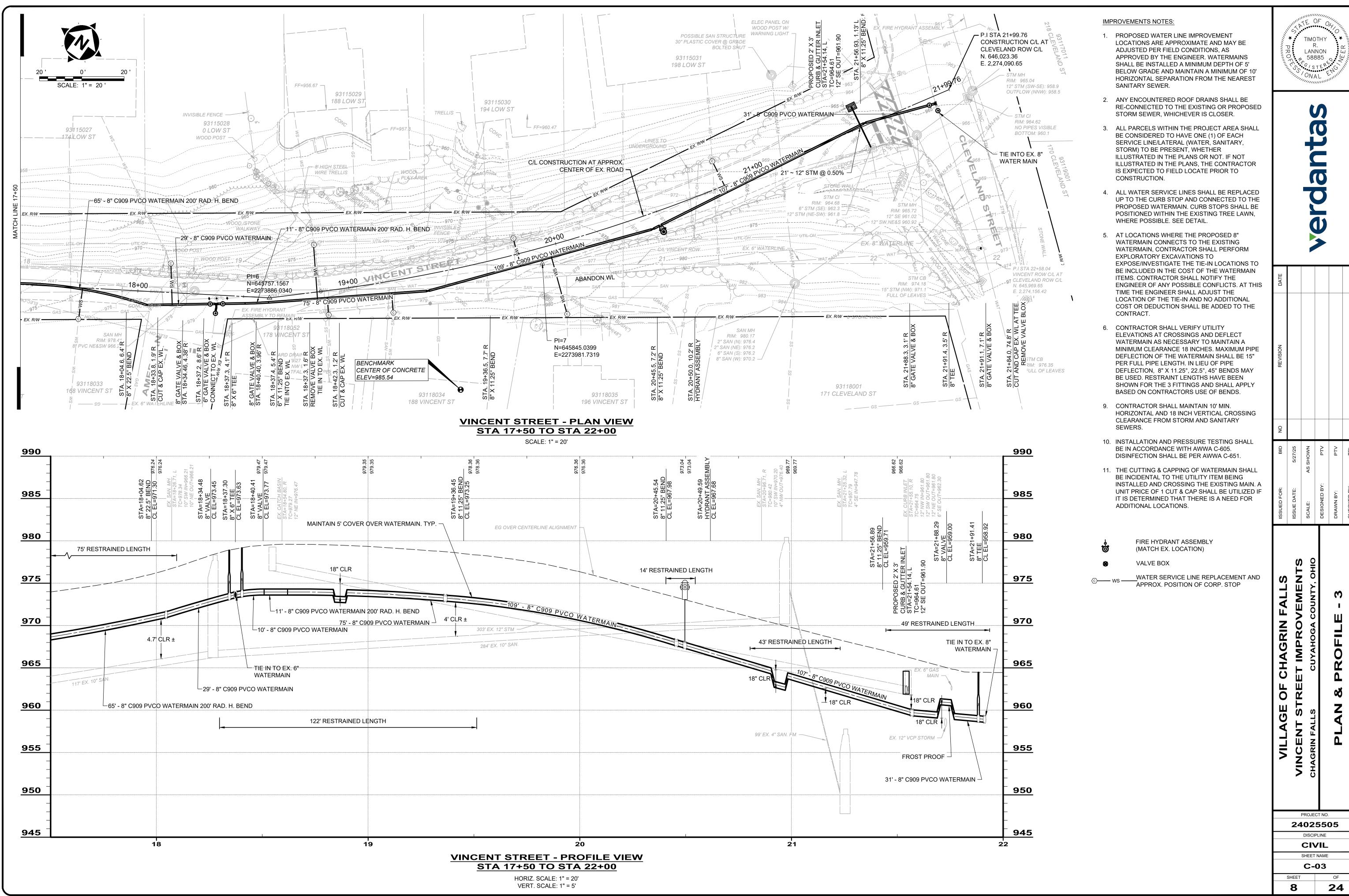
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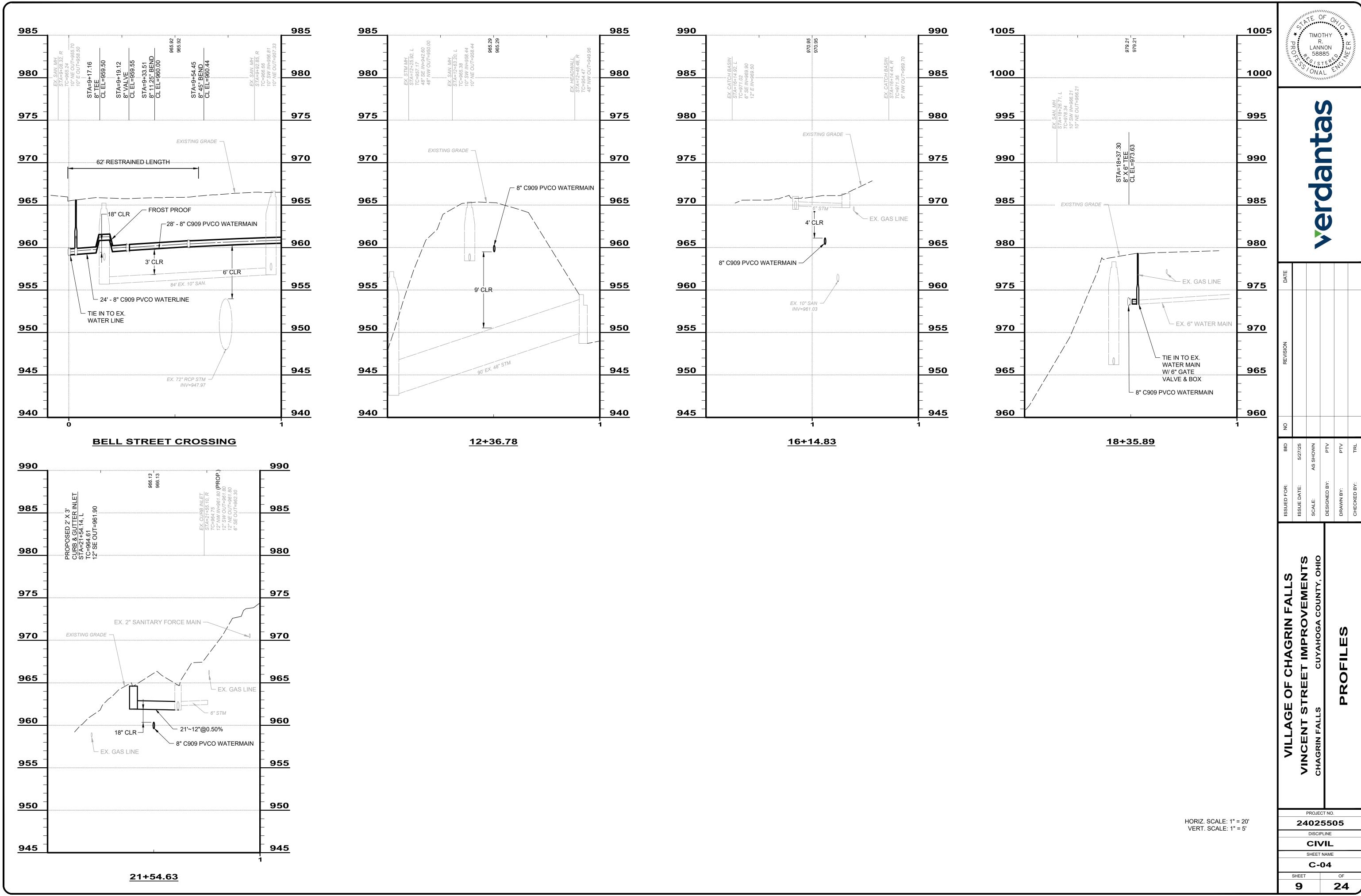
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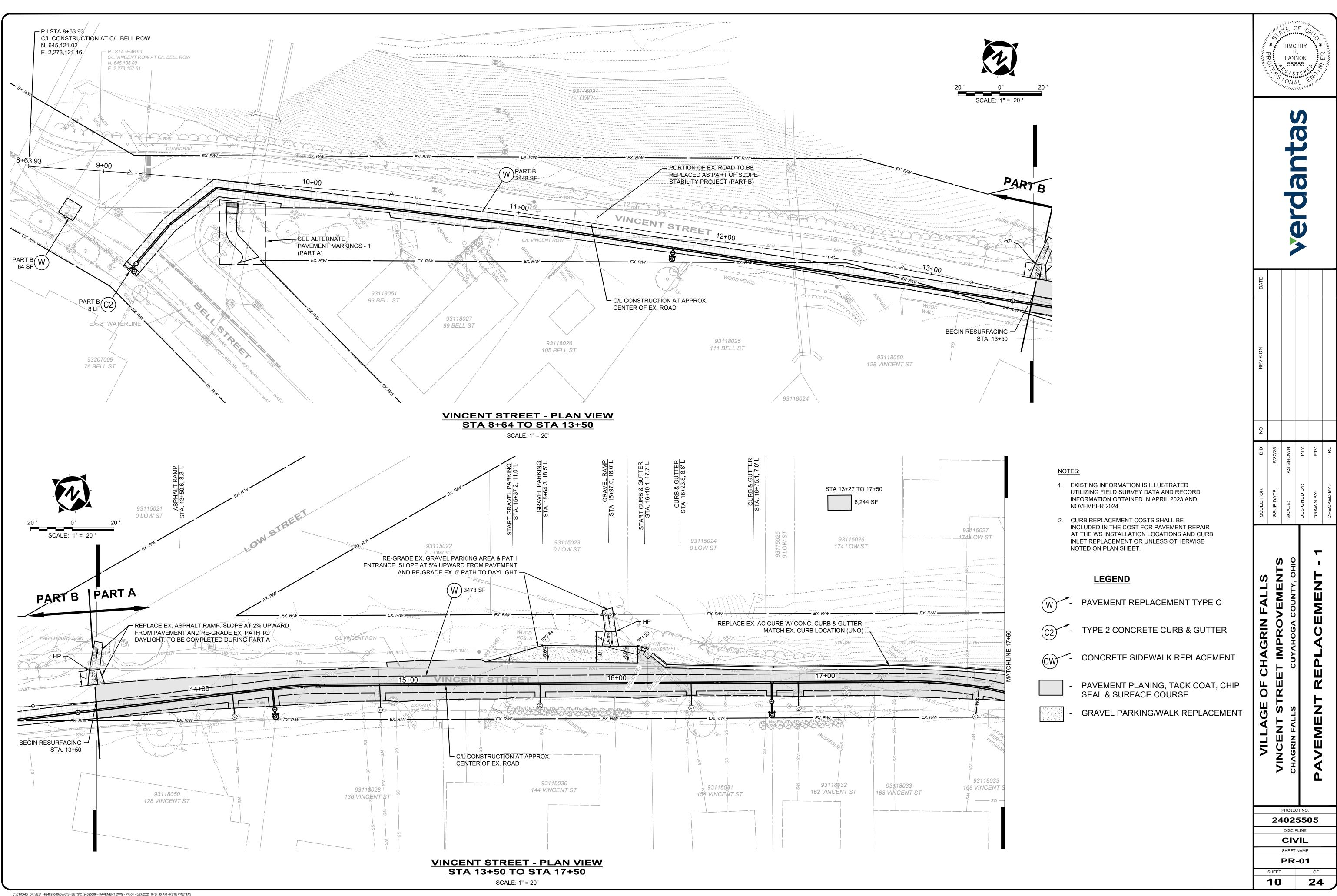


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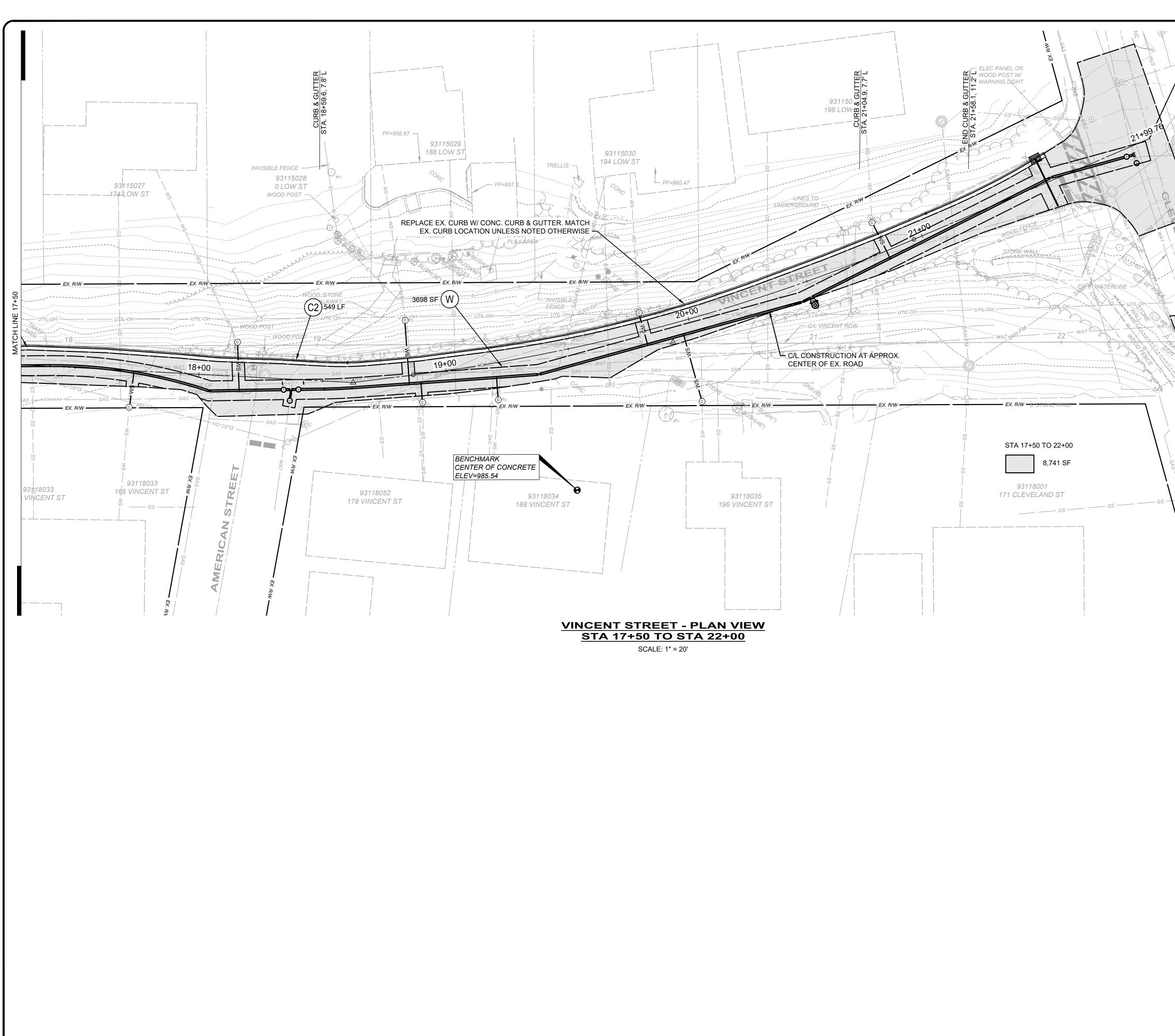




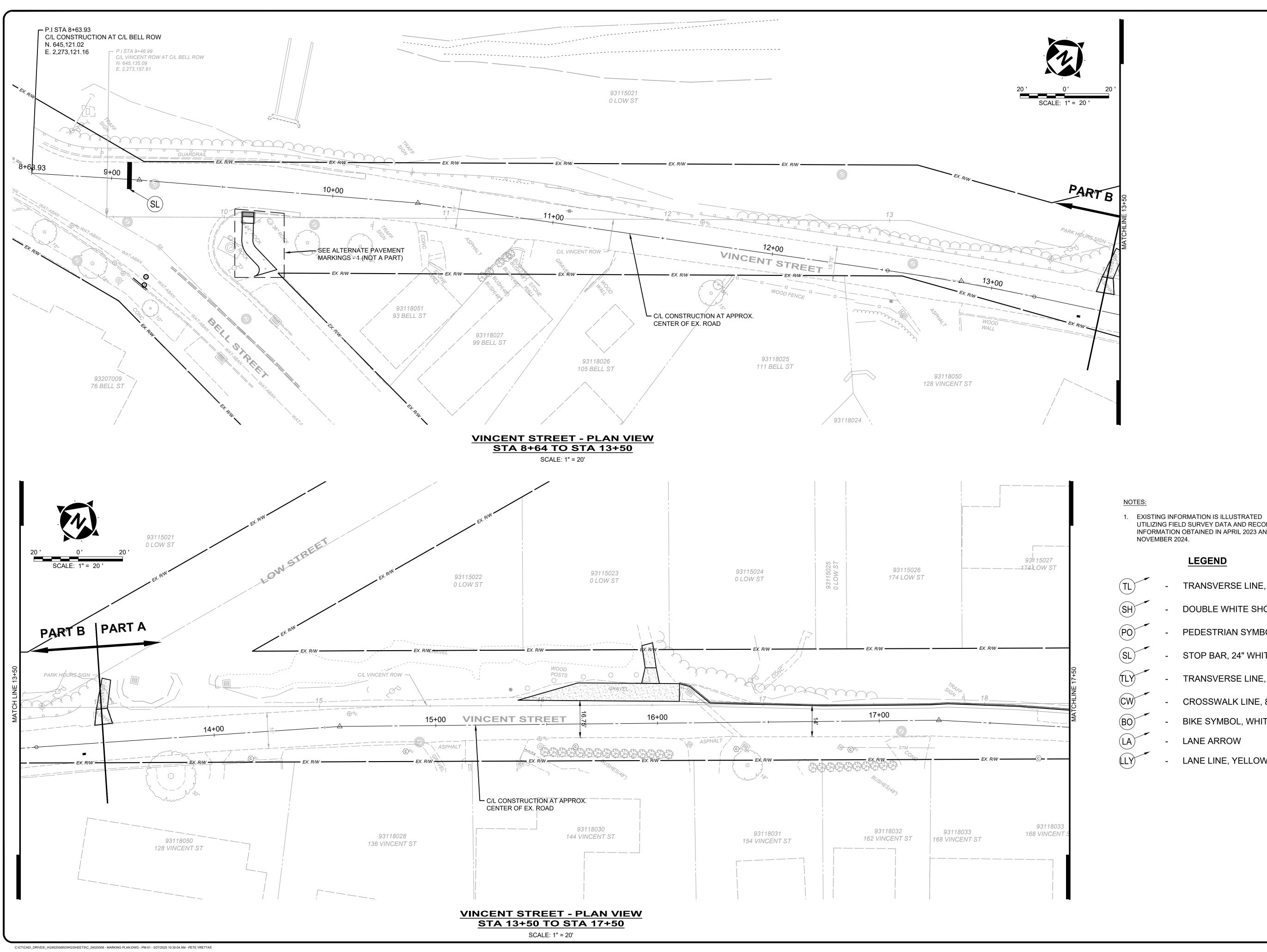
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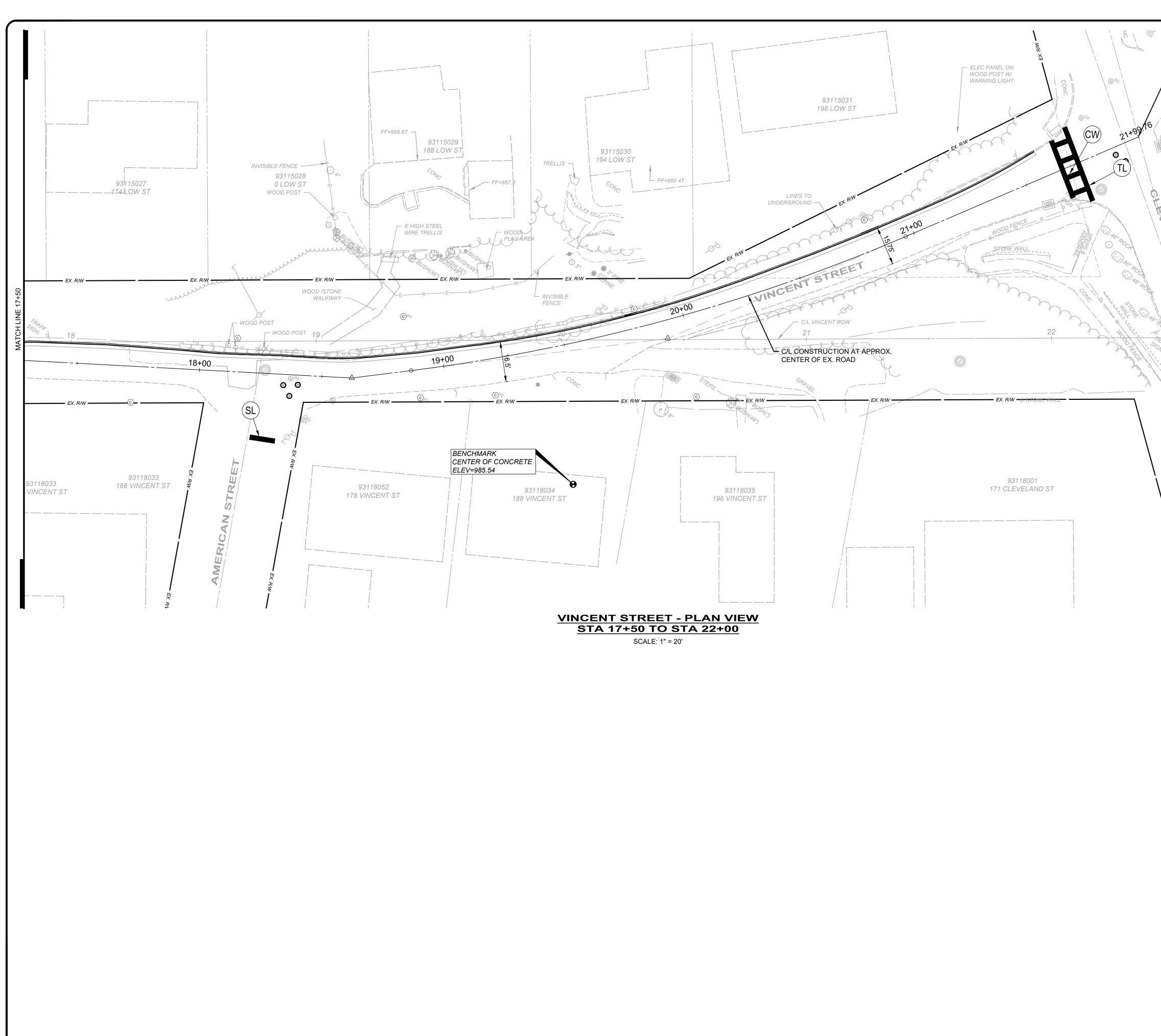
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MUTES:         1       EXISTING INFORMATION IS ILLUSTRATED UTILIZING FIELD SURVEY DATA AND RECORD INVEMBER 2024.         2       CUURB REPLACEMENT COSTS SHALL BE INVEMBER 2024.         2       CUURB REPLACEMENT COSTS SHALL BE INTEL COST FOR PAVEMENT REPAR AT THE WS INSTALLATION LOCATIONS AND CURB INTEL REPLACEMENT OR UNLESS OTHERWISE NOTED ON PLAN SHEET.         W       PAVEMENT REPLACEMENT TYPE C         CONCRETE SIDEWALK REPLACEMENT         W       PAVEMENT PLANING, TACK COAT, CHIP SEAL & SURFACE COURSE         W       GRAVEL PARKING/WALK REPLACEMENT	W 48 SF	REVISION				
MOTESE         1       EXISTING INFORMATION IS ILLUSTRATED UTILIZING FIELD SURVEY DATA AND RECORD INFORMATION OSTAINED IN APRIL 2023 AND NOVEMBER 2024.         2       CURB REPLACEMENT COSTS SHALL BE INFORMATION OSTAINED IN APRIL 2023 AND NOVEMBER 2024.         3       CURB REPLACEMENT COSTS SHALL BE INFORMATION OSTAINED IN APRIL 2023 AND NOVEMBER 2024.         4       Image: Comparison of the cost of the primes in the cost of the primes of the repara in the replacement or NULLESS of the revises in the cost of the replacement type C         5       TYPE 2 CONCRETE CURB & GUTTER         6       PAVEMENT PLANING, TACK COAT, CHIP SEAL & SURFACE COURSE         6       PAVEMENT PLANING, TACK COAT, CHIP SEAL & SURFACE COURSE         7       GRAVEL PARKING/WALK REPLACEMENT		Q				
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<ul> <li>1. EXISTING INFORMATION IS ILLUSTRATED UTILIZING FIELD SURVEY DATA AND RECORD INFORMATION OBTAINED IN APRIL 2023 AND NOVEMBER 2024.</li> <li>2. CURB REPLACEMENT COSTS SHALL BE INCLUDED IN THE COST FOR PAVEMENT REPAIR AT THE WS INSTALLATION LOCATIONS AND CURB INLET REPLACEMENT OR UNLESS OTHERWISE NOTED ON PLAN SHEET.</li> <li>W. PAVEMENT REPLACEMENT TYPE C</li> <li>C. TYPE 2 CONCRETE CURB &amp; GUTTER</li> <li>W. CONCRETE SIDEWALK REPLACEMENT</li> <li>PAVEMENT PLANING, TACK COAT, CHIP SEAL &amp; SURFACE COURSE</li> <li>GRAVEL PARKING/WALK REPLACEMENT</li> </ul>		ISSUED FOR: ISSUE DATE:	AS	DESIGNED BY:	DRAWN BY:	CHECKED BY:
<ul> <li>INFORMATION OBTAINED IN APRIL 2023 AND NOVEMBER 2024.</li> <li>CURB REPLACEMENT COSTS SHALL BE INCLUEDED IN THE COST FOR PAVEMENT REPAIR AT THE WS INSTALLATION LOCATIONS AND CURB INLET REPLACEMENT OR UNLESS OTHERWISE NOTED ON PLAN SHEET.</li> <li>W PAVEMENT REPLACEMENT TYPE C</li> <li>C2 TYPE 2 CONCRETE CURB &amp; GUTTER</li> <li>CW CONCRETE SIDEWALK REPLACEMENT</li> <li>PAVEMENT PLANING, TACK COAT, CHIP SEAL &amp; SURFACE COURSE</li> <li>GRAVEL PARKING/WALK REPLACEMENT</li> </ul>	1. EXISTING INFORMATION IS ILLUSTRATED					
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CONCRETE SIDEWALK REPLACEMENT   -   PAVEMENT PLANING, TACK COAT, CHIP   SEAL & SURFACE COURSE   -   GRAVEL PARKING/WALK REPLACEMENT     PROJECT NO.   24025505   DISCIPLINE	C2 - TYPE 2 CONCRETE CURB & GUTTER		– ით		⊢	
SEAL & SURFACE COURSE     - GRAVEL PARKING/WALK REPLACEMENT     PROJECT NO.     24025505   DISCIPLINE	CW - CONCRETE SIDEWALK REPLACEMENT		P I Fall		ΣΕ	
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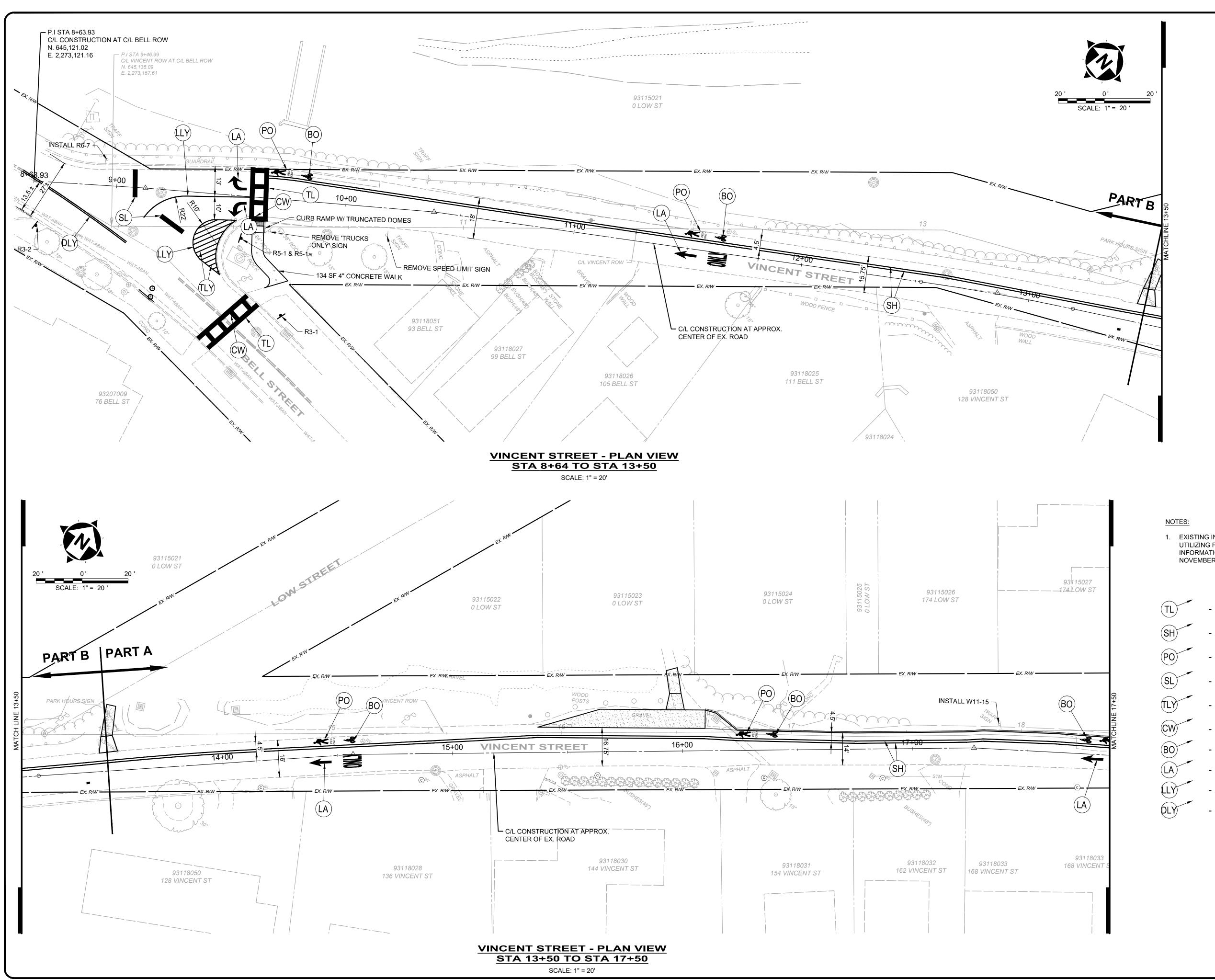
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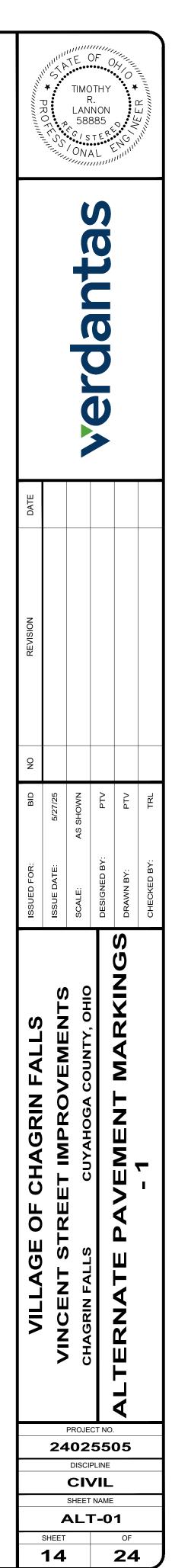
UTILIZING FIELD SURVEY DATA AND RECORD INFORMATION OBTAINED IN APRIL 2023 AND

TL	-	TRANSVERSE LINE, 8" WHITE
SH	-	DOUBLE WHITE SHOULDER
PO	-	PEDESTRIAN SYMBOL, WHITE
SL	-	STOP BAR, 24" WHITE
TLY	-	TRANSVERSE LINE, 12" YELLOW
CW	-	CROSSWALK LINE, 8"
BO	-	BIKE SYMBOL, WHITE
LA	-	LANE ARROW
(LLY)	-	LANE LINE, YELLOW



P.I STA 21+99.76 CONSTRUCTION C/L AT CLEVELAND ROW C/L N. 646,023.36 E. 2,274,090.65 SCALE: 1" = 20'	PROF IN	TIMC F LAN S S S C S C S C S C S C S C S C S C S	R. NON 385		Theman and a start of the
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NOTES: 1. EXISTING INFORMATION IS ILLUSTRATED UTILIZING FIELD SURVEY DATA AND RECORD INFORMATION OBTAINED IN APRIL 2023 AND NOVEMBER 2024. LEGEND	CHAGRIN FALLS	CUYAHOGA COUNTY, OHIO		<b>MARKINGS - 2</b>	
TL - TRANSVERSE LINE, 8" WHITE	CHAG			MAF	
SH - DOUBLE WHITE SHOULDER	OF 0	REE			
PO - PEDESTRIAN SYMBOL, WHITE		r st		PAVEMENT	
(SL) - STOP BAR, 24" WHITE	VILLAGE			< N E I I I I I I I I I I I I I	
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CW - CROSSWALK LINE, 8"		> 10		_	
(BO) - BIKE SYMBOL, WHITE (LA) - LANE ARROW					
(LA) - LANE ARROW (LLY) - LANE LINE, YELLOW		PROJE 2402		)5	
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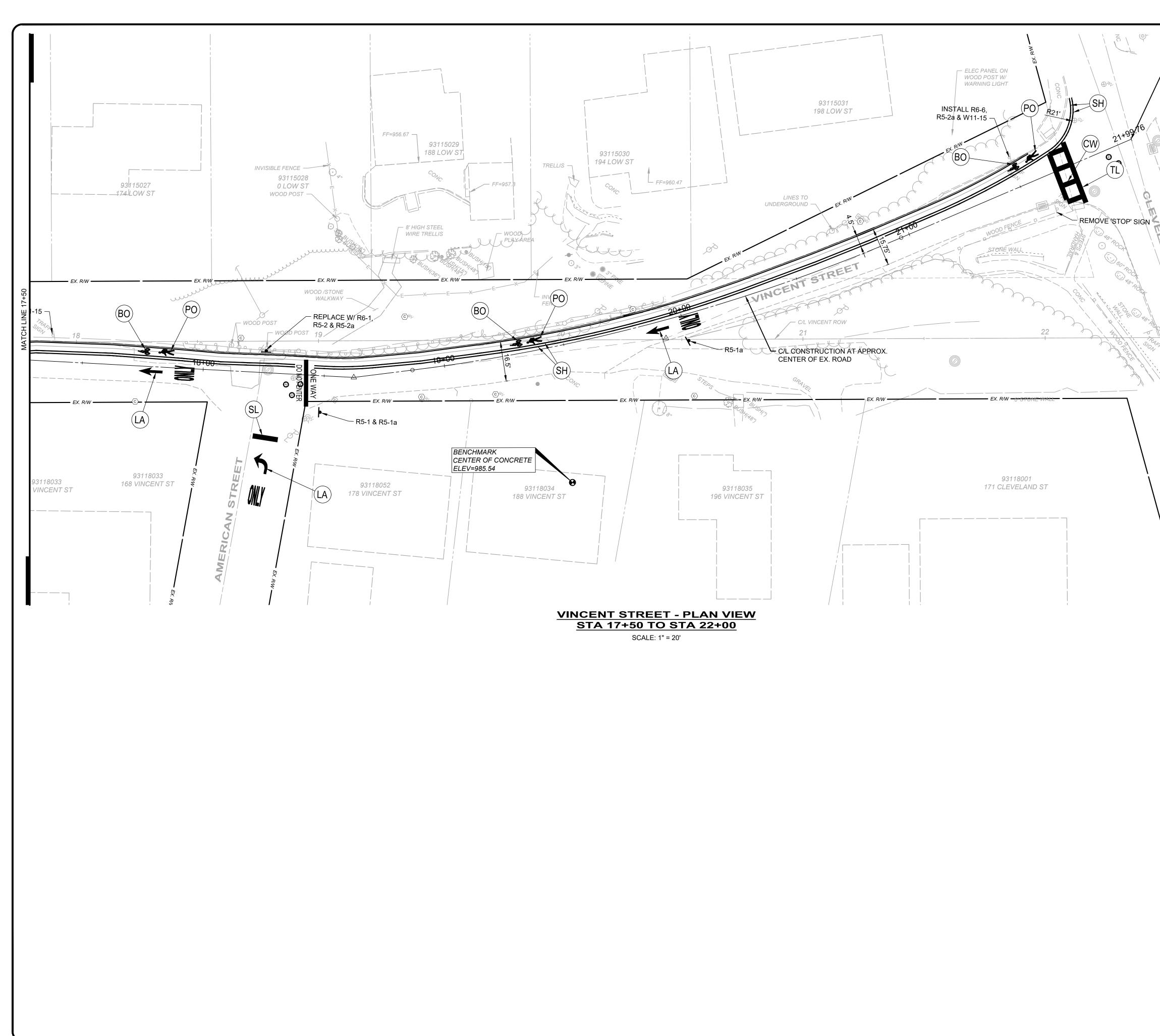




1. EXISTING INFORMATION IS ILLUSTRATED UTILIZING FIELD SURVEY DATA AND RECORD INFORMATION OBTAINED IN APRIL 2023 AND NOVEMBER 2024.

## LEGEND

TL	-	TRANSVERSE LINE, 24" WHITE
SH	-	DOUBLE WHITE SHOULDER
PO	-	PEDESTRIAN SYMBOL, WHITE
SL	-	STOP BAR, 24" WHITE
TLY	-	TRANSVERSE LINE, 12" YELLOW
CW	-	CROSSWALK LINE, 24" WHITE
BO	-	BIKE SYMBOL, WHITE
LA	-	LANE ARROW
LLY	-	LANE LINE, YELLOW
OLY	-	DOUBLE LANE LINE, YELLOW



P.I STA 21+99.76 CONSTRUCTION C/L AT CLEVELAND ROW C/L N. 646,023.36 E. 2,274,090.65 SCALE: 1" = 20'		۱.	TIMO R	THY		יוווווויי ייוווווויי
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			CIN SHEET	/IL NAME -02		

# NOTES:

FLA	IGGERS	DRUMS	; /
1.	Flaggers, one for each direction, shall be used to control traffic continuously for as long as a one lane operation is in effect. The flaggers shall be able to communicate with each other at all times.	8A. D a. b.	Drui 1) S 1) S 1
LEN	IGTH OF CLOSURE		
	Several small work areas close together should be combined into one work zone. However, the closure shall not be more than 2000' long unless approved by the Engineer. The minimum length between closures shall be 2000'. Only one side of the road shall be closed in any one work zone.	а. Ь.	Con ) C ) C ) C ) U ) U ) U
SIG	N LOCATION AND SPACING	8C. F	ro
3A.	The minimum spacing between work zone signs is shown in Table I. Maximum spacing should not be greater than 1.5 times the distances shown in Table I.	d	lrun A m
<i>3B</i> .	Sign spacing should be adjusted to avoid conflict with existing signs. Minimum spacing to existing signs shall be 200' for speeds of 45 mph or less and a	(RESER	
	minimum of 400′ for speeds of 50 mph or greater.	9A. (	int.
<i>3C</i> .	The location of the advance warning signs should be adjusted to provide for adequate sight distance for the existing vertical and horizontal roadway	AREA	ILL
	for the existing vertical and horizontal roadway alignment. IUSTMENTS FOR SIGHT DISTANCE	li	lde hal igh idja
4.	The location of the flagger station and the advance warning signs should be adjusted to provide for adequate sight distance for the existing vertical and horizontal roadway alignment.	10B. T t. Ei W	fo e The Ingi vher
BAS	SIC SIGNING	_	hie ngi
5A.	ROAD WORK AHEAD (W20–1) signs shall be provided on entrance ramps or roadways entering the work limits.	INTERS	
5B.	END ROAD WORK (G20–2) signs are only required for lane closures of more than 1 day. It is intended that these signs be placed on the mainline, on all exit ramps, and on roadways exiting the work limits.	to an ma	ithi o co nd n ove ot r
5C.	Overlapping of signing for adjacent projects should be avoided where the messages could be confusing. Any ROAD WORK AHEAD (W20–1) or END ROAD WORK (G20–2) sign which falls within the limits of another traffic control zone shall be omitted or		Ple or Pre int
	covered during the period when both projects are active.	10	rums cat ne c
SIG	NING DETAILS		ns: arri
6A.	The Advisory Speed (W13–1P) plaque shall be used when specified in the plan.	Ex	rist ssur
6B.	36" warning signs may be used when the approach speed limit is 40 mph or less.	Th	ne r
FLA	SHING WARNING LIGHTS	ap	pro
7.	Type A flashing warning lights shown on the ROAD WORK AHEAD (W20–1) signs and on the LANE CLOSED AHEAD (W20–5) signs are required whenever a night lane closure is necessary.		

### CONES

Im spacing shall be as follows:

pacing along the closure shall be 40' center-to-center. pacing along the approach taper shall be 10' centero-center.

es may be substituted for drums as follows:

Cones used for daytime traffic control shall have a minimum height of 28". Cones used for nighttime traffic control shall have a minimum height of 42".

se of cones at night shall be prohibited along apers.

visions shall be made to stabilize the cones and ms to prevent them from blowing over.

inimum of two drums shall be used to close the ed shoulder.

D FOR FUTURE USE)

entionally blank)

### UMINA TION

equate area illumination of each flagger station all be provided at night. Use of portable flood ating is acceptable. Luminaires shall be located acent to each flagger station.

ensure the adequacy of floodlight placement and elimination of glare, the Contractor and the neer shall drive through the worksite each night n the lighting is in place. Light placement and olding shall be adjusted to the satisfaction of the neer.

### CTION / DRIVEWAY ACCESS

nin the length of closure, provision shall be made control traffic entering from intersecting streets major drives as necessary to prevent wrong-way ements and to keep vehicles off of new pavement ready for traffic. The Contractor shall:

ace across the closed lane, either three drums (cones) barricades, and/or rovide an additional flagger at every public street intersection and major driveway.

ns (cones) placed across the closed lane shall be driveway or cross highway, as shown in Standard struction Drawings (SCDs MT-97.11 or MT-97.12. For ricades, see SCD MT-101.60.

ting STOP signs shall be relocated as necessary to reproper location for the traffic conditions.

method of control shall be subject to the oval of the Engineer.

### SHADOW VEHICLE

- 12A. The shadow vehicle shall be in place and unoccupied whenever workers are in the work area. This vehicle shall be removed from the pavement whenver workers are not in the work area.
- 12B. The shadow vehicle shall be equipped with a high-intensity yellow rotating, flashing, oscillating, or strobe light(s).
- 12C. The shadow vehicle shall be equipped with a truckmounted or trailer attenuator'(TMA) in accordance with CMS 614.03 when called for in the plans.

### CHIP SEAL OPERATIONS

- 13. For chip seal operations, additional signing shall be incorporated in the advanced warning area.
  - a) The LOOSE GRAVEL (W8-7) and FRESH TAR (W21-2) signs shall both be used in advance of the chip seal operation.

  - be used for signing of side roads intersecting the work area.

b) Repeat the LOOSE GRAVEL sign with a 35 mph Advisory Speed (W13-1) plaque every half mile per CMS 422.09.
 c) The FRESH TAR and the LOOSE GRAVEL signs shall both

		VILLAGE OF CHAGRIN FALLS	ISSUED FOR:	BID	NO	REVISION	DATE	
N SHEET <b>16</b>		VINCENT STRFET IMPROVEMENTS	ISSUE DATE:	5/27/25				
CIN SHEET 10	PROJE		SCALE: A	AS SHOWN				F LAN 588 م
NAME	55 PLINE		DESIGNED BY:	PTV				DF DTHY R. NON 385 TER AL
		MAINTENANCE OF TRAFFIC - 1	DRAWN BY:	PTV				
			CHECKED BY:	TRL				

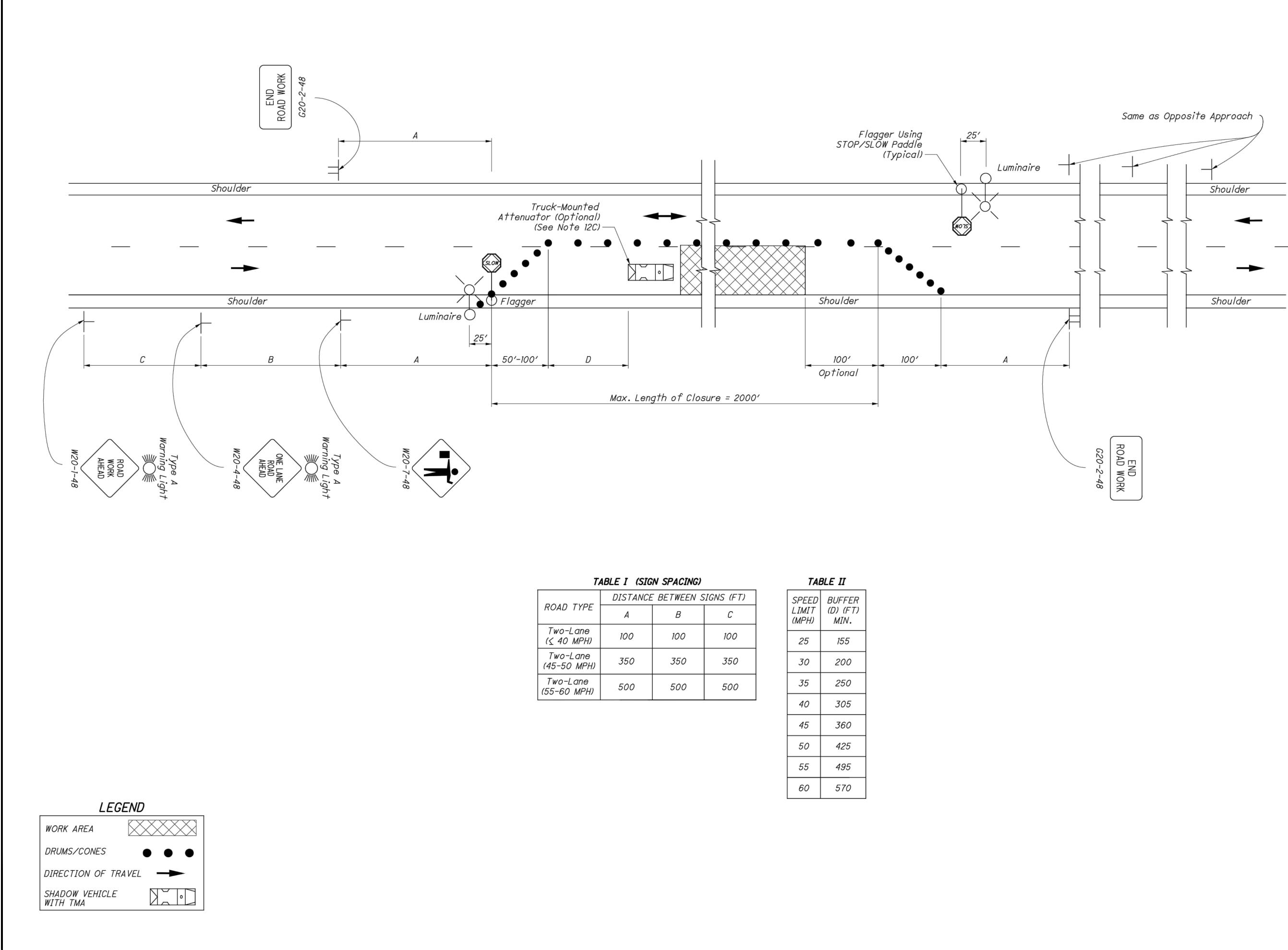


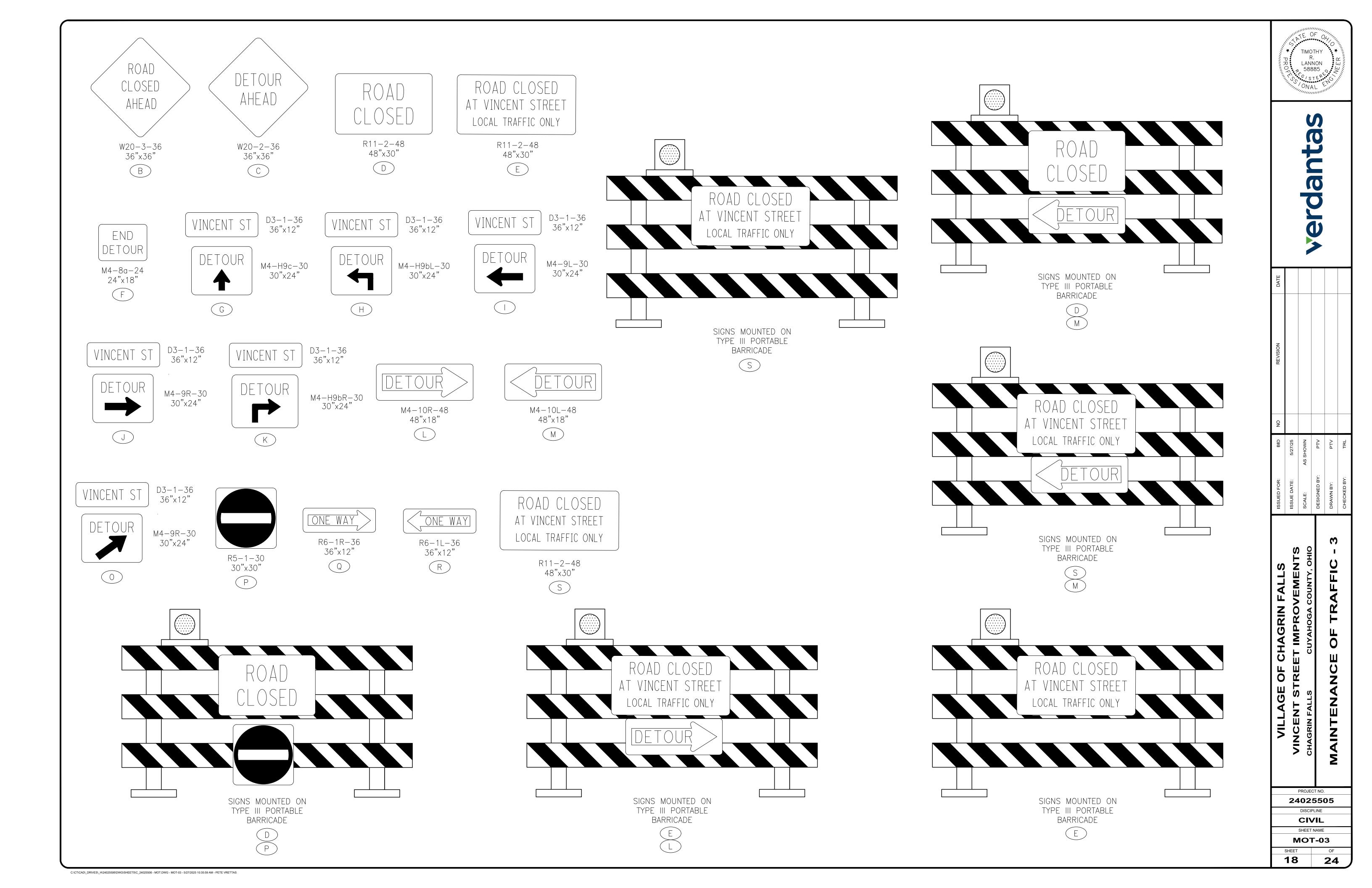
TABLE	Ι	(SIGN	SPACING)

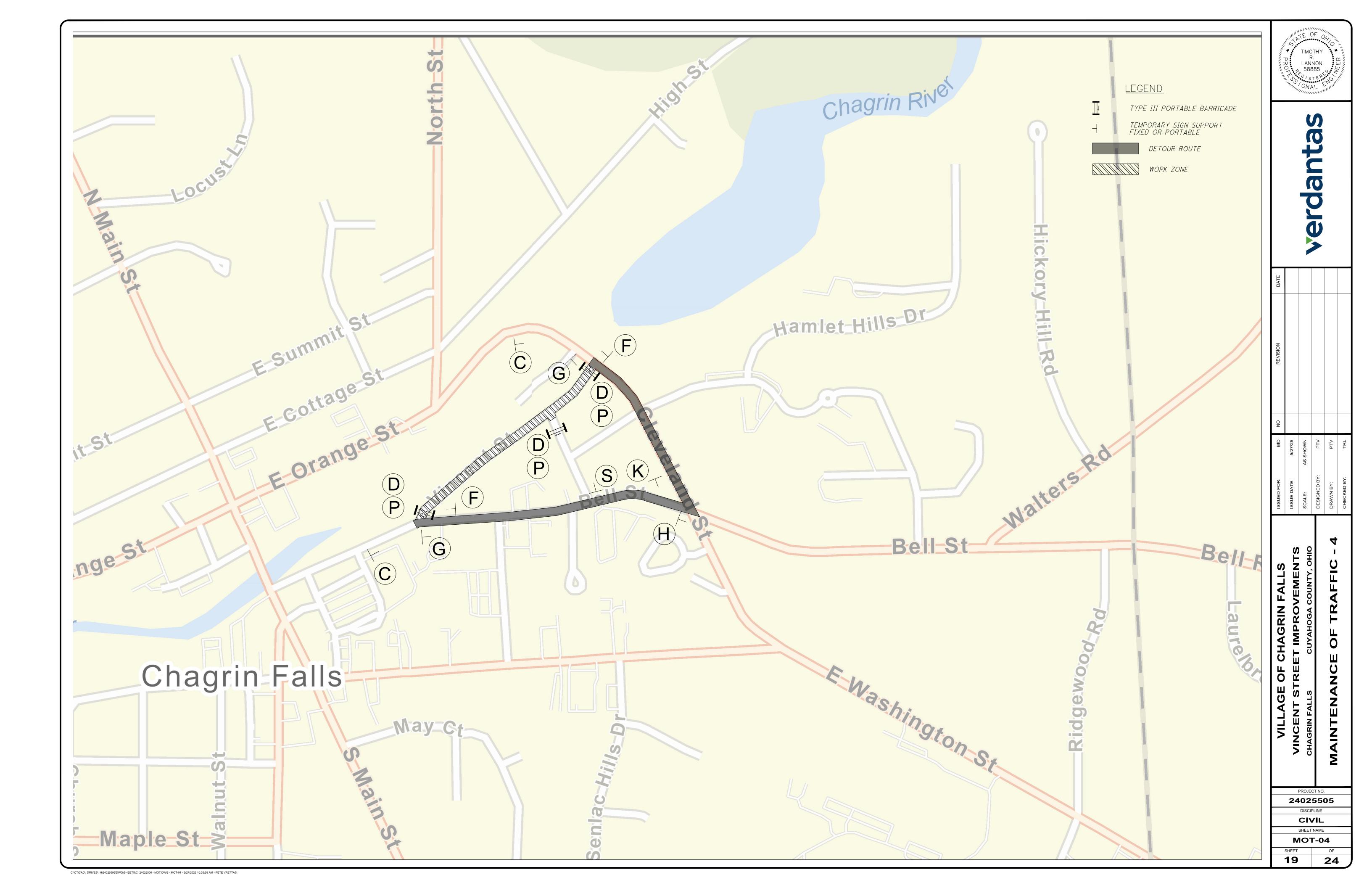
	DISTANCE	BETWEEN S	SIGNS (FT)
ROAD TYPE	A	В	С
Two-Lane (≤ 40 MPH)	100	100	100
Two-Lane (45–50 MPH)	350	350	350
Two-Lane (55-60 MPH)	500	500	500

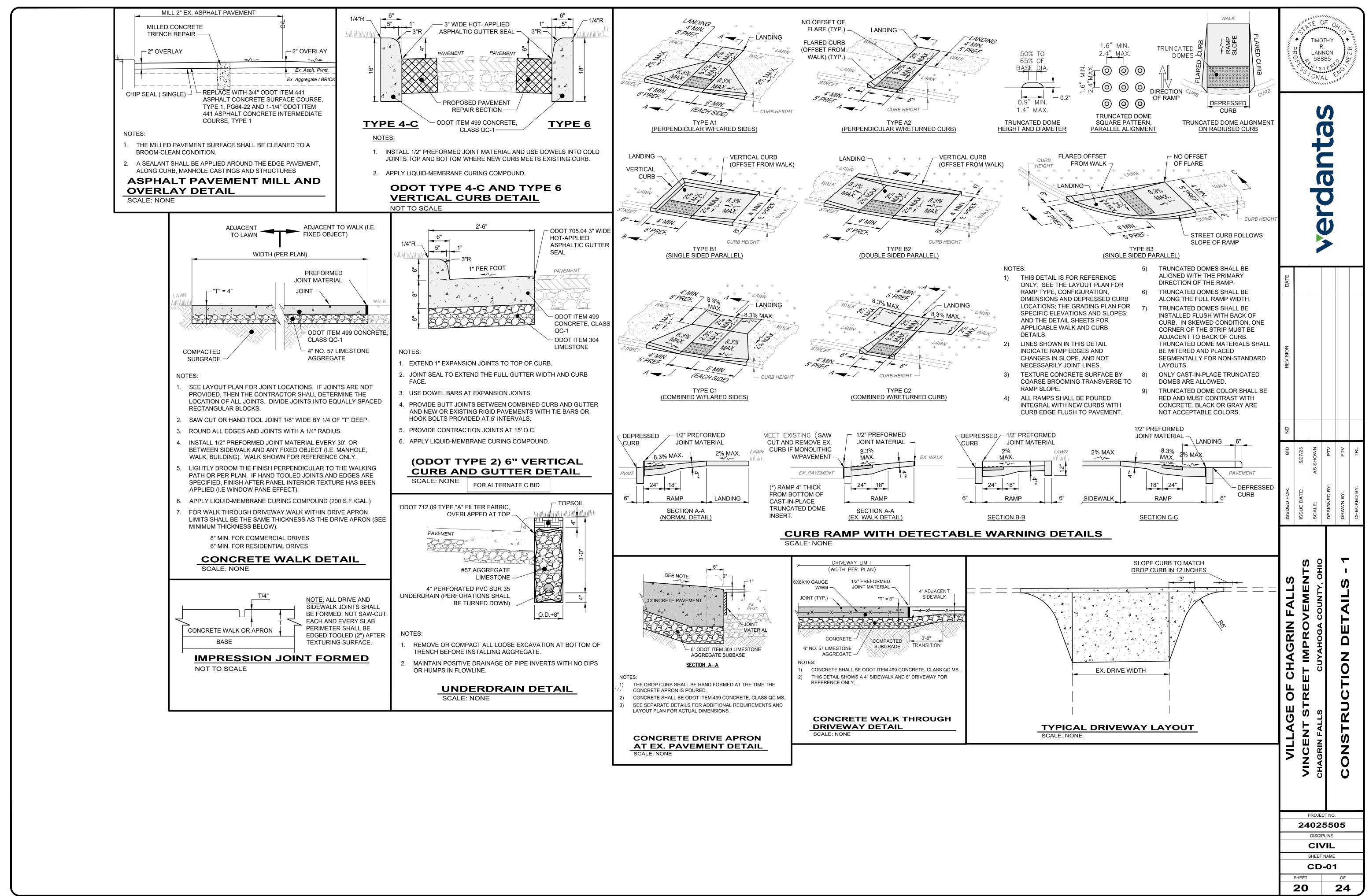
C:\CT\CAD\\_DRIVES\\_H\24025506\DWG\SHEETS\C\_24025506 - MOT.DWG - MOT-02 - 5/27/2025 10:35:59 AM - PETE VRETTAS

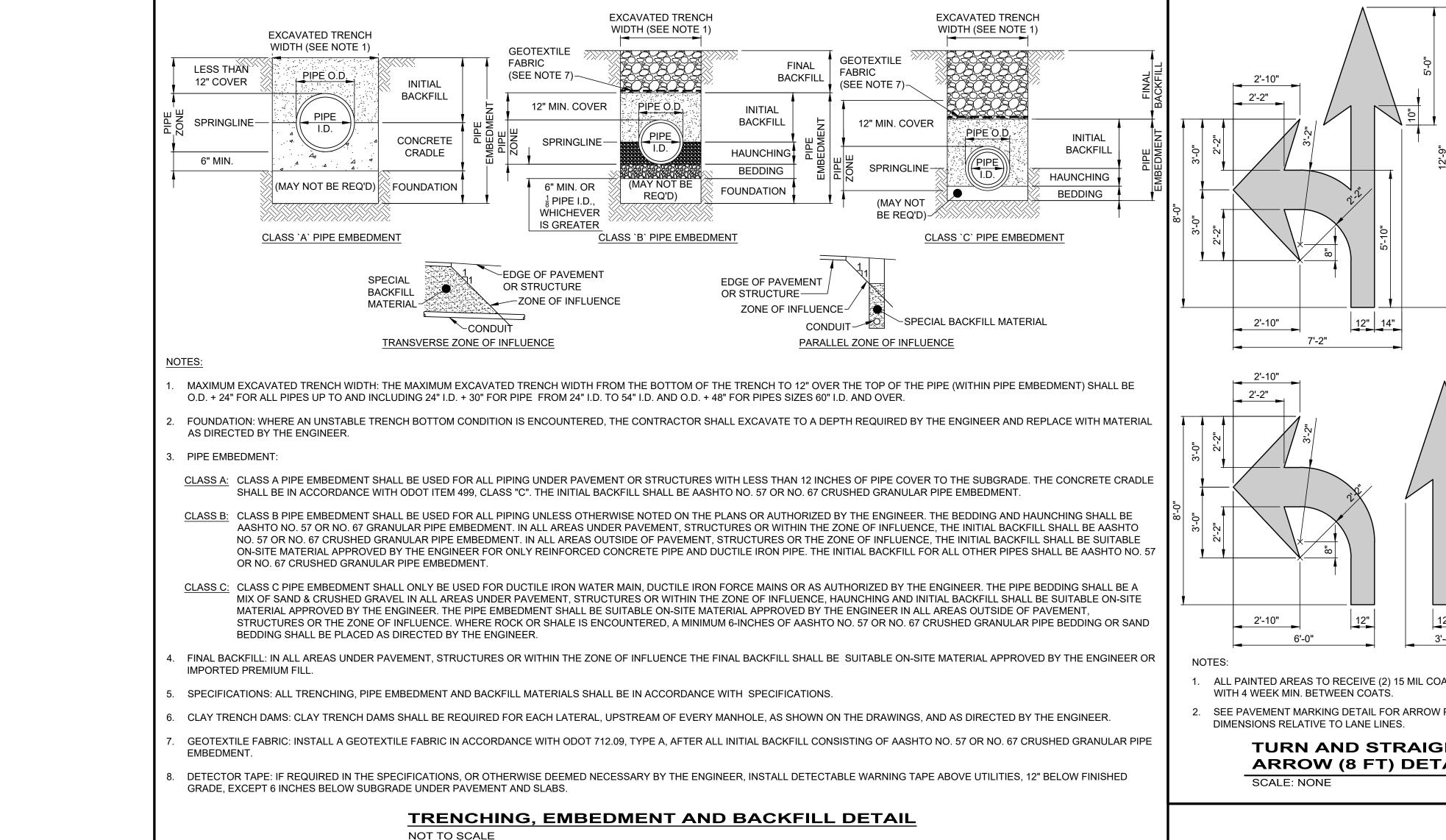
TAL	BLE II	
SPEED LIMIT (MPH)	BUFFER (D) (FT) MIN.	
25	155	
30	200	
35	250	
40	305	
45	360	
50	425	
55	495	
60	570	

			ISSUED FOR:	BID	ON	REVISION	DATE	
N SHEET 17	24	VINCENT STREET IMPROVEMENTS	ISSUE DATE:	5/27/25				PROFESUIT
10	CI		SCALE: AS	AS SHOWN				TIMC F LAN 58 C C I ON
Г NAME <b>Т-О</b>			DESIGNED BY:	РТV				OF OTHY R. INON 885 TER AL
	05	MAINTENANCE OF TRAFFIC - 2	DRAWN BY:	PTV				
			CHECKED BY:	TRL				

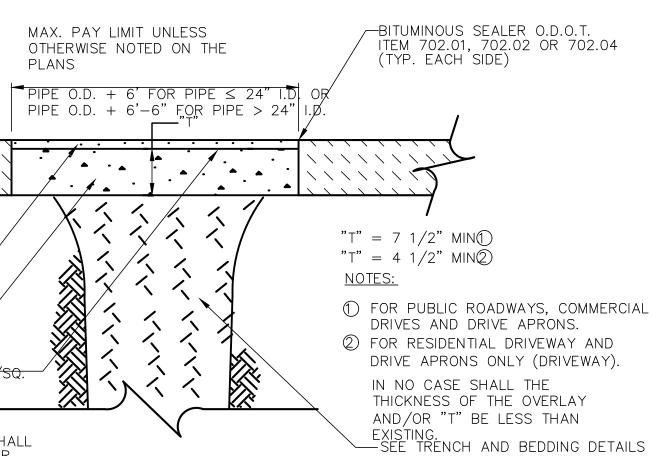








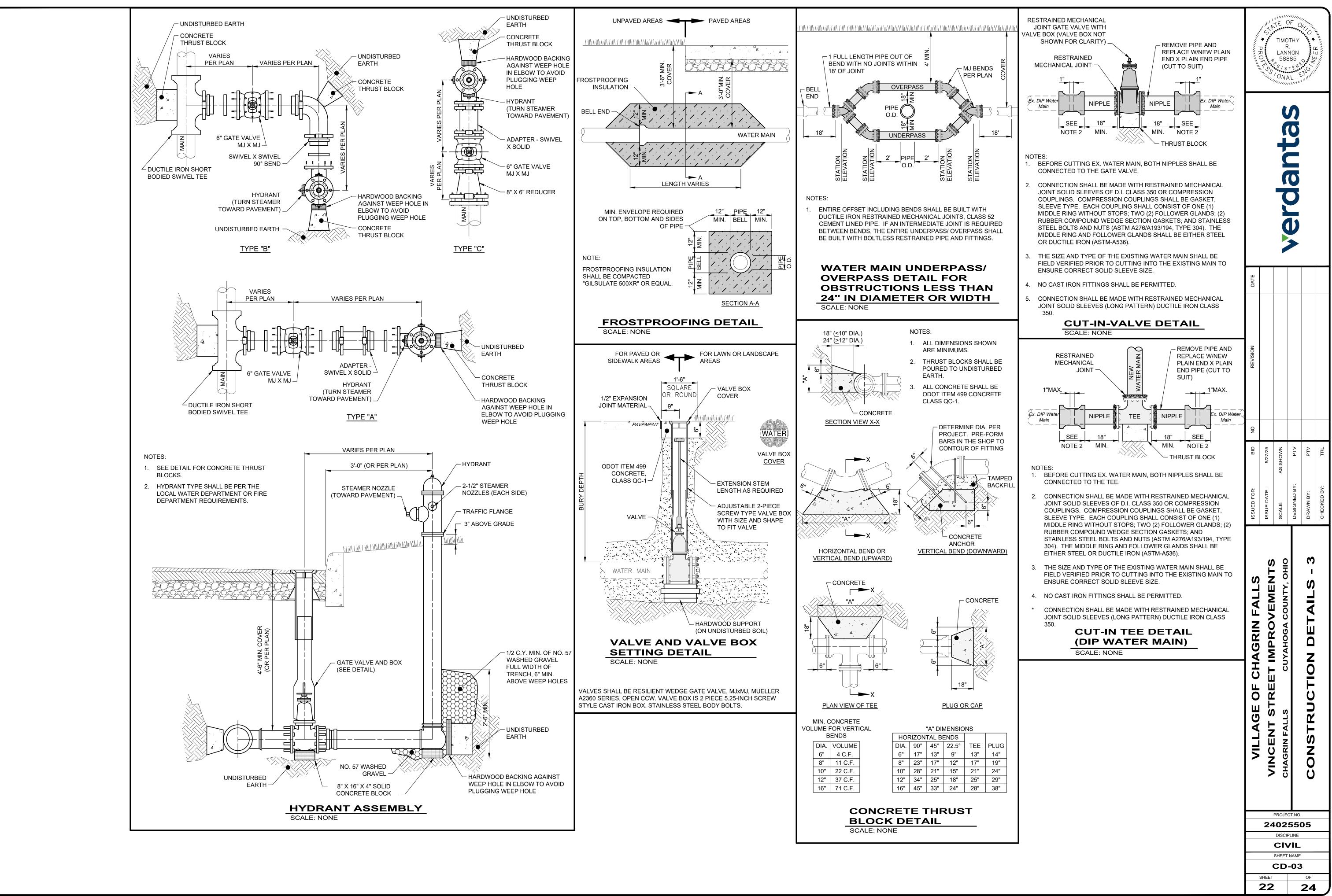
EXIST. PAV'T.  $\land \land \land \land \land \land \land \land$ 1 1/2" MIN. O.D.O.T. ITEM 448 -TYPE 1 ASPHALT SURFACE COURSE, -PG 64-22 0.D.O.T. ITEM 301-ODOT 407 TACK COAT APPLIED AT 0.15 GAL/SQ. YD. NOTE: 1) EXISTING SUBBASE MATERIAL (IF ANY) SHALL BE REPLACED, AS DIRECTED BY ENGINEER. (ASPHALT) 10/10

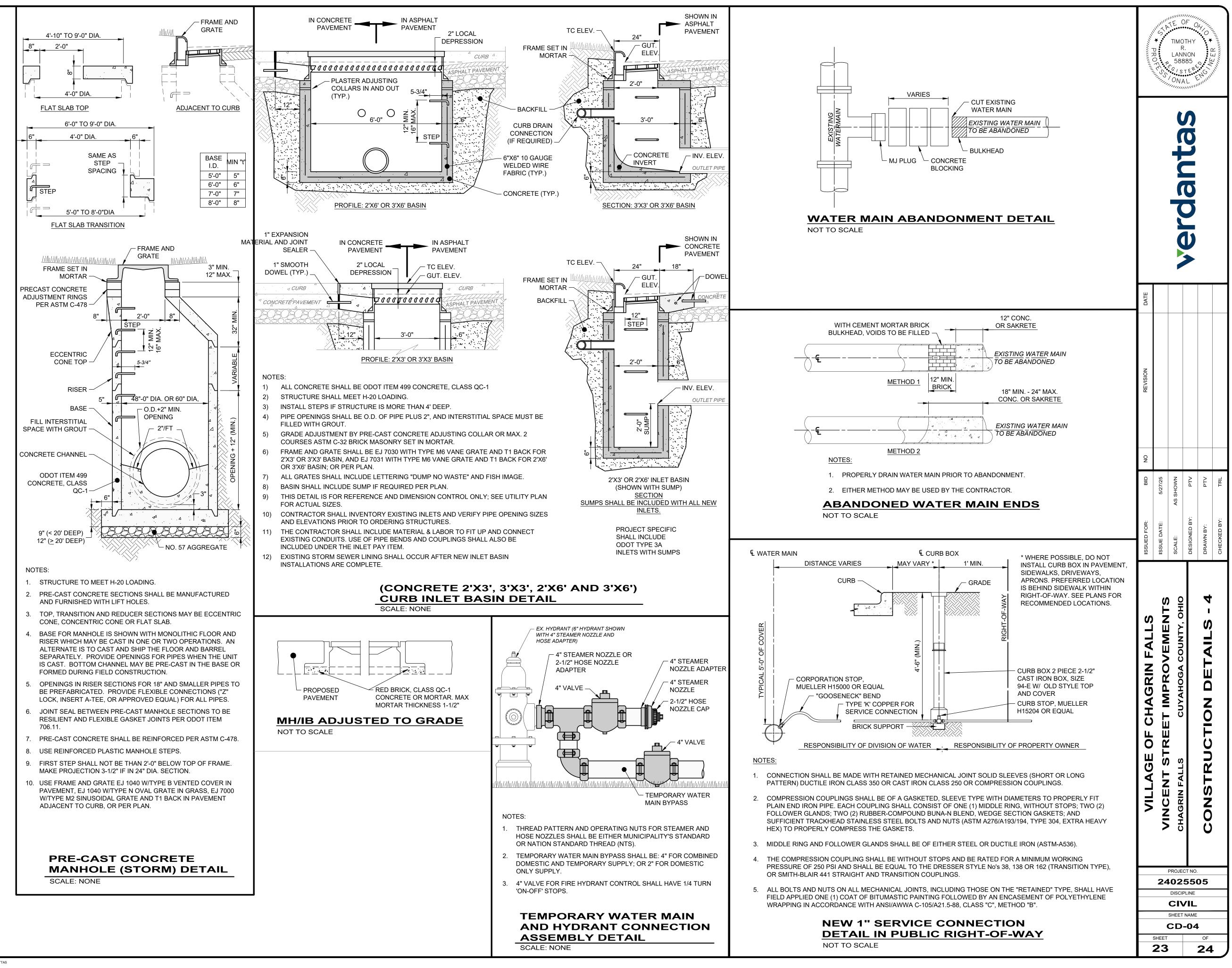


# TYPE C PAVEMENT REPLACEMENT

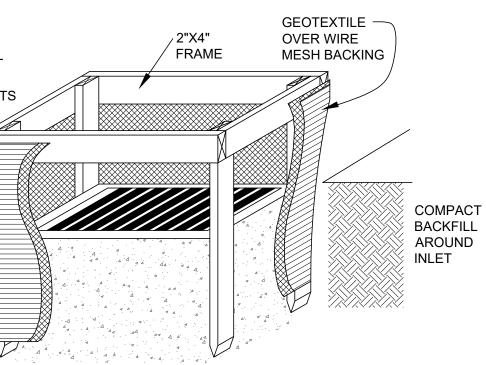
SD-5-3

	T CROSSWALK LINE	C/L LANE	PROFESSION	MOTHY R. ANNON 58885 VISTER CONAL
P <u>1</u>	TRANSVERSE LINE CROSS HATCH MARKING (** 24" IF SPEED > 45MPH)	ARROW-L		S
<b>•</b>	4" 4" 1 1 1 1 1 1 1 1 1 1 1 1 1	ARROW-TL	•	verdanta
	24" STOP LINE	ARROW-TR		
9'-6"	DRIVE LANE DRIVE LANE C/L LANE C/L LANE ONLY-6	ARROW-R	DATE	
2" 14"	WORD ON PAVEMENT	ARROW-TLR	REVISION	
-4"	4"_4" 4" 4"	CENTER LINE, DOUBLE, SOLID	BID NO 5/27/25	PTV PTV TRL
HT AIL		= <u>10'</u> SINGLE, BROKEN DOTTED LINE (* 2' MIN, 6' MAX) EDGE LINE	FOR: DATE:	SCALE: AS SHOWN DESIGNED BY: PTV DRAWN BY: PTV CHECKED BY: TRL
	<ul> <li>4"         <ul> <li>8"</li> <li>NOTES:</li> </ul> </li> <li>1. CENTER LINES TO BE YELLOW. EDGE AND CHANNELIZING LINES, PARKINGS MAY BE YELLOW OR WHITH PAVEMENT MARKINGS TO BE WHITE LOTHERWISE.</li> <li>2. ALL PAINTED AREAS TO RECEIVE (2) 1 WITH 4 WEEKS MIN. BETWEEN COATS</li> <li>3. 8' SIZED LANE ARROWS ARE SHOWN; SMALLER 6' SIZED LANE ARROWS.</li> <li>PAVEMENT MARKINGS TO BE WHITE LOW OR WHI</li></ul>	STALL LINES, AND ISLAND E (SEE PLAN). ALL OTHER JNLESS SPECIFIED IS MIL COATS OF PAINT S. SEE SEPARATE DETAIL FOR	IAGRIN FALLS IMPROVEMENTS	HOGA COUNTY, OHIO DETAILS - 2
			VILLAGE OF CH VINCENT STREET	CHAGRIN FALLS CUYA CONSTRUCTION
			<b>240</b>	OJECT NO. D25505 ISCIPLINE
			SH	EET NAME
			SHEET <b>21</b>	OF 24





2x2 WOODEN STAKE 3"-4" FILTER SOCK ( 12" MIN.	12" DIA.)	PROTE	FICATIONS FOR INLET ECTION IN SWALES, LINES OR YARD INLETS
MATERIALS - COMPARISON USED FOR FILTER SOCKS MAIA SOURCE OF ORGANIC MATTER AND CONSIST OF PARTI- SOURCE OF ORGANIC MATTER AND CONSIST OF PARTI- SOURCE OF ORGANIC MATTER AND CONSIST OF PARTI- PARALLEL TO THE BASE OF THE SLOPE OR OTHER APARALLEL TO THE BASE OF THE SLOPE OR OTHER APARALDES OF PERMANENT VEGETATION. 3. FILTER SOCKS INTENDED TO BE LEFT AS A PERMAN NUTURAL LANDSCAPE, SHALL BE SLOPE OR OTHER TURINGE CHANNELS. 3. FILTER SOCKS ARE NOT TO BE USED IN CONCENTER UNOFF CHANNELS. 3. FILTER SOCKS ARE NOT TO BE USED IN CONCENTER SUBJEMENT OF PERMANENT VEGETATION ALLONGTON AT ALL STABLISHMENT OF PERMANENT VEGETATION. 4. FILTER SOCKS IN A FUNCTIONAL CONDITION AT ALL SUBJEMENT SOLLECTED AT THE RASE OF THEY REACH 1/3 OF THE EXPOSED HEIGHT OF THE SUBJEMENT SOLLECTED AT THE ASS OF THEY REACH 1/3 OF THE EXPOSED HEIGHT OF THE ADALACED WITH A MORE EFFECTIVE ALTERNATES ON REQUIRED IN SUCH A WAY AS TO FACILITATE AND SUBJEMENT SOLLECTEN SOLLECTEN ALTER SOCKS SUBJEMENT SOLLECTEN ALTER SOCKS WILL BE DISPERSED ON REQUIRED IN SUCH A WAY AS TO FACILITATE AND SUBJEMENT SOLLECTEN AND ALL SOLLECTEN AND ALL ADALT SOLLECTEN AND ALL SOLLECTEN AND ALL ADALT SOLLECTEN AND ALL SOLLECTEN ALTERNATES DATE SOLLECTEN AND ALL SOLLECTEN ALTERNATES ADALT SOLLECTEN AND A	ATED FLOW SITUATIONS OR IN GIGNIFICANT RAIN, MAINTAINING L TIMES. THE FILTER SOCKS WHEN PRACTICE. S, IT WILL BE REPAIRED OR SITE WHEN NO LONGER NOT OBSTRUCT SEEDINGS.	SPECIFICA 1. INLET BEFO 2. THE E 3. THE V 2-BY-4 TOP F FRAM HAZAI 4. WIRE AGAIN FRAM 5. GEOT SHALL TOP C ACRO 6. BACKI WITH 7. A COM	ATIONS FOR INLET PROTE PROTECTION SHALL BE OF RE THE STORM DRAIN BE ARTH AROUND THE INLET VOODEN FRAME SHALL BE A-INCH POSTS SHALL BE PORTION OF 2-BY-4-INCH F E SHALL BE AT LEAST 6 IN RD TO TRAFFIC.
SILT FENCE NOTES:         1. SILT FENCE SHALL BE CONSTRUCTED BEFO         2. ALL SILT FENCE SHALL BE PLACED AS CLOS CONCENTRATE AT LOW POINTS IN THE FENT SMALL CONCENTRATED FLOWS TO THE SILT CONSTRUCTED UPSLOPE SO THAT THE END         3. TO PREVENT WATER PONDED BY THE SILT CONSTRUCTED UPSLOPE SO THAT THE END VEGETATION SHALL BE PRESERVED FOR 5F VEGETATION SHALL BE PRESERVED FOR 5F VEGETATION STALL BE PRESERVED FOR 5F VEGETATION IS REMOVED, IT SHALL BE REE FENCE.         5. THE HEIGHT OF THE SILT FENCE SHALL BE A         6. THE SILT FENCE SHALL BE PLACED IN A TRE WITH A TRENCHER CABLE LAYING MACHINE UNIFORM TRENCH DEPTH.         7. THE SILT FENCE SHALL BE PLACED WITH TH THAT 8 INCHES OF CLOTH ARE BELOW THE 4 THE 6-INCH-DEEP TRENCH. THE TRENCH SH 8. SEAMS BETWEEN SECTION OF SILT FENCE 5 WRAPPED TOGETHER BEFORE DRIVING INT         8. SEAMS BETWEEN SECTION OF SILT FENCE SHALL ACONCENTRATED FLOW, ONE OF THE FOLL 9.1 THE LAYOUT OF THE SILT FENCE SHALL 10. SILT FENCE MATERIALS         9. MAINTENANCE - SILT FENCE SHALL ALLOW F IF RUNOFF OVERTOPS THE SILT FENCE SHALL 2. ACCUMULATED SEDIMENT SHALL BE RE 9.3 OTHER PRACTICES SHALL BE INSTALLE 10. SILT FENCE MATERIALS         10.1. FENCE PARTICES SHALL BE INSTALLE 10. SILT FENCE MATERIALS         10.2. SILT FENCE FABRIC (SEE CHART BELOW 10.2. SIL	E TO THE CONTOUR AS POSSIBI CE AND SO THAT SMALL SWALES FENCE ARE DISSIPATED ALONG ENCE FROM FLOWING AROUND SARE AT A HIGHER ELEVATION ACED ON THE FLATTEST AREA A FEET (OR AS MUCH AS POSSIBLE STABLISHED WITHIN 7 DAYS FRO MINIMUM OF 16 INCHES ABOVE INCH CUT A MINIMUM OF 6 INCHE , OR OTHER SUITABLE DEVICE V E STAKES ON THE DOWNSLOPE GROUND SURFACE. EXCESS MAY ALL BE BACKFILLED AND COMPA SHALL BE OVERLAPPED WITH TH O THE GROUND. RUNOFF TO PASS ONLY AS DIFFU WS UNDER OR AROUND THE EN LOWING SHALL BE PERFORMED, L BE CHANGED, MOVED, OR D.	LE SO THAT WATER WILL NOT S OR DEPRESSIONS WHICH MAY CAR S ITS LENGTH. THE ENDS, EACH END SHALL BE VAILABLE. WHERE POSSIBLE, UPSLOPE FROM THE SILT FENCE. II OM THE INSTALLATION OF THE SILT THE ORIGINAL GROUND SURFACE. S DEEP. THE TRENCH SHALL BE CUT WHICH WILL ENSURE AN ADEQUATEL SIDE OF THE GEOTEXTILE AND SO TERIAL SHALL LAY ON THE BOTTOM ( ACTED. IE END STAKES OF EACH SECTION JSE FLOW THROUGH THE GEOTEXTIL IDS, OR IN ANY OTHER WAY BECOME AS APPROPRIATE: WOOD POSTS WILL BE 2 X 2 INCH	F SUP PROF SUP POS OF E. S SHEET FLOW DIRECTIC T T T T T T T T T T T T T



ECTION IN SWALES, DITCH LINES OR YARD INLETS:

CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR ECOMES OPERATIONAL.

T SHALL BE EXCAVATED COMPLETELY TO A DEPTH AT LEAST 18 INCHES.

BE CONSTRUCTED OF 2-BY-4-INCH CONSTRUCTION-GRADE LUMBER. THE DRIVEN 1 FOOT INTO THE GROUND AT FOUR CORNERS OF THE INLET AND THE FRAME ASSEMBLED USING THE OVERLAP JOINT SHOWN. THE TOP OF THE INCHES BELOW ADJACENT ROADS IF PONDED WATER WOULD POSE A SAFETY

FICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED TCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE

EQUIVALENT OPENING SIZE OF 20-40 SIEVE AND BE RESISTANT TO SUNLIGHT. IT Y AROUND THE FRAME AND FASTENED SECURELY. IT SHALL EXTEND FROM THE THES BELOW THE INLET NOTCH ELEVATION. THE GEOTEXTILE SHALL OVERLAP LET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.

AROUND THE INLET IN COMPACTED 6 INCH LAYERS UNTIL THE EARTH IS EVEN NDS AND TOP ELEVATION ON SIDES.

R A CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET RESSION AND IF RUNOFF BYPASSING THE INLET WILL NOT FLOW TO A SETTLING ES SHALL BE AT LEAST 6 INCHES HIGHER THAN THE TOP OF THE FRAME.

### **INLET PROTECTION**

NOT TO SCALE

