

Bid Addendum

Addendum No. 3 for the City of Staunton Johnson, Byers, and New Street Tunnel Repairs.

Addendum Date: November 10, 2025

To: All Bidders

From: Wiley|Wilson
Lynchburg, VA

This Addendum contains 30 page(s) and listed attachments and forms a part of the bidding documents and modifies the Project Manual dated October 6, 2025 and Drawings dated October 6, 2025, as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject bidder to disqualification.

CLARIFICATIONS

1. The contractor shall remove the trees indicated for removal on C-112 (revised in this Addendum) during the initial mobilization. Contractor shall coordinate tree removal with Dominion Energy.
 2. The Contractor shall demonstrate experience and qualifications commensurate with the size, scope, and complexity of this project, which includes precast tunnel construction, concrete bridge repair work, and major utility relocations. The Contractor shall have successfully completed at least five (5) projects of similar type, size, and complexity within the past ten (10) years. The Contractor shall demonstrate adequate resources and personnel experienced in similar construction conditions. The Owner reserves the right to evaluate and reject bids from Contractors that, in the Owner's judgment, do not demonstrate sufficient experience, resources, or technical capability to complete the work safely and successfully. A completed C-451 Qualifications Statement is required to be submitted with the Bid.
 3. Note revised Sheet C-114 showing relocation of two gas lines.
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RESPONSE TO PRE-BID RFIs

Question 21: Can you provide photos of the work area inside the tunnels?

Response: Photos of the work areas are included in this Addendum.

Question 22: Can you provide a list of plan holders / pre-bid attendees? If not available , could you provide contact information on precast providers (three-sided culvert and steel fabricators (Guardrail Section A4 , sheet S-502) and Ornamental Fence (Civil Details Sheet C-502)?

Response: The pre-bid attendee list is included in Addendum #1. The basis of design for the three-sided culvert is a 3-sided rigid frame precast bridge from Permatile Concrete Products Company. For the ornamental fence, the City has used Braden & VanFossen Ironworks (2507 W Beverley St, Staunton VA 24401; Office: 540-885-2251). For the guardrail, no specific basis or

design manufacturer was identified in design phase, just required criteria. Submit as shop drawing for review and approval meeting construction document requirements.

Question 23: Will the City of Staunton pay for cost incurred in de-energizing or relocating power lines that conflict with culvert erection?

Response: The overhead power lines at Johnson St will be relocated by Dominion Energy at the expense of Dominion Energy. Per clarification 1, above, the contractor shall be responsible for tree removal in coordination with Dominion Energy. See response to Question 14 in Addendum #1 for responsibilities for the underground electric line at Byers St.

Question 24: Traffic most likely will not be able to cross the discharge hoses. Can you clarify location of pumps and discharge lines for stream pump-around during gas line installation?

Response: We assumed the discharge location for the stream bypass is at the Johnson St culvert. The discharge line(s) would route down the sidewalk adjacent to the Johnson St parking garage and once they enter the contractor controlled site, they would not cross any road with active traffic.

Question 25: The plans do not clearly show locations of sanitary manholes. Can you better clarify location of pumps and discharge lines for sanitary sewer pump around?

Response: C-002 identifies five manholes (2 for Johnson St and 3 for Byers St) that we think should be the suction manholes for each site and the estimated peak flow in the main at those locations. Two notes have added to C-002 in Addendum #3 identifying potential discharge manholes for the Johnson St and Byers St bypass operations.

Question 26: New 18" SDR 26 SS on SW tunnel section is connecting to concrete encased cast iron. Cast iron will break when you try to remove concrete encasement. What is remedy when this occurs??

Response: Based on record information, we believe the encasement can be removed from the CIP without damaging the pipe. The preferred install is with a dual purpose sleeve, but if the CIP is damaged while attempting to remove the concrete encasement then the shuvlnose adaptor specified for the 10" and 15" VC tie-ins should be used.

Question 27: Note on plan sheet C-114 says this line is detailed as San Profile A on sheet C-116 but that is incorrect and no profile is given. Can profile for this sewer run be provided?

Response: San Profile A on C-116 shows from the connection of the new 18" C900 sanitary sewer pipe to the existing 18" CIP upstream to SS-1 to CO-1 to CO-2. The references on C-114 have been updated to reference C-116.

Question 28: The connection is also behind phase 2 cofferdam and new pipe is also concrete encased. What is remedy? Sewer work must be complete prior to three-sided culvert erection.

Response: The phase 1/phase 2 distinction is only for the gas line relocation work. After the gas line is relocated, the contractor may demolish the existing tunnel and utilities and reconstruct as makes sense for their means and methods. The upstream connections for both the 10" sanitary sewer and 15" sanitary sewer should be within the coffer dammed work areas required to remove and replace the tunnel walls and foundations. The assumed order of operations would be to construct the tunnel foundation and stem wall first then install the utilities then enclose with the precast 3-sided culvert sections. The concrete encasement that does not require tie-ins to the precast wall could be poured prior to placing the pre-cast sections, but some concrete and utility work will need to be completed after pre-cast placement. See concrete encasement detail A2 on

S-501.

Question 29: New 10" SDR 26 Sanitary sewer on NW wall connects to existing 10" VC sanitary sewer. The 10" VC sanitary sewer will most definitely break when you attempt to remove the concrete encasement. What is remedy when this happens?

Response: The shuvnose adaptor referenced in the note is designed to join two pipes via an internal connection. The concrete encasement for the sections of 10" and 15" VC pipe to remain should not be removed due to concern about shattering the pipe. The manufacturer's cut sheet for the shuvnose adaptor is attached as part of this Addendum.

Question 30: The connection is also behind the phase 2 cofferdam and new pipe is concrete encased. What is remedy? Sewer work must be complete prior to three-sided culvert erection.

Response: See previous answer (#28).

Question 31: The 15" SDR 26 Sanitary Sewer branches off from CO-1 shown in Profile A, sheet C-116. No profile for this line is shown. Can a profile with elevations be provided?

Response: Sanitary Sewer Profile C has been added to C-116

Question 32: Tunnel West Side detail (sheet C-111) appears to indicate the existing line is elevated above the stream bed and somehow attached to the existing tunnel wall. Pictures (requested above) would help clarify. Can a profile detail with elevation be provided? It appears a drop manhole will be required but there are numerous utility conflicts.

Response: See Sanitary Sewer Profile A and C on C-116 for the replacement sanitary sewers. CO-2 and CO-3 drop the flow and are detailed on C-503. The concrete encasement for the sanitary sewer and riser structures is detailed on sheet S-501, including attachment to the tunnel wall. The apparent water line and gas line conflicts on C-111 are also addressed in the plan on C-114 and profiles on C-116.

Question 33: The connection is to a concrete encased 15" VC Sanitary Sewer. This pipe will most definitely break when you remove the concrete encasement. What is the remedy when this happens?

Response: See previous answer (#29).

Question 34: 1. No inverts are provided but plan shows top of conc encasement of existing pipe at 1371.46. That is 4' above the top of the stem wall. No dimensions are provided but scaling indicates the C/L of the existing pipe is approximately 2.5' from the face of the new tunnel section. Does Section D6 on sheet S-301 and detailed on Sheet S-501 possibly refer to this 15" SDR? If so, it appears the concrete encasement will extend beyond the edge of footing and the new sewer will need to be installed prior to precast erection south of connection point.

Response: We have revised how this pipe ties into the existing 15" VC. See revised sheets C-114 and C-116 (profile Sanitary Sewer Profile C) and details on C-503. As long as the encasement provides 5" minimum between the face of concrete and the outside of pipe, some overhang of the encasement past the footing is acceptable.

Question 35: The specifications require the precast concrete to be within 100 mile radius. Can this be removed? The company used for the basis of the design, Permatile is outside the 100 mile radius and as the specification stands, will not be able to participate in the project.

Response: The 100 mile radius restriction has been removed from the pre-cast and cast-in-place

sections per Addendum #2.

Question 36: As a follow up to the response to Question 11 in Addendum #1”: John Rainero has indicated the specifications prohibit Permatile Concrete Products Company from quoting the project. Could you check / verify this?

Response: See previous answer (#35).

Question 37: The Quality Assurance specifications also require the precast installer to be PCI- Certified Field Auditor. We have installed three sided culverts (as well as other precast structures) but are not PCI certified as erecting precast as a subcontractor is not in our normal line of business. Would VDOT prequalification for Work Class 003- Major Structures meet the intent of the QA specification?

Response: The Fabricator Qualifications require a PCI-certified plant and Installer Qualifications to retain a “PCI-Certified Field Auditor” to conduct a field audit as stated in 034100, PRECAST STRUCTURAL CONCRETE, 1.7 QUALITY ASSURANCE.

DRAWINGS

(Information provided in “RESPONSE TO QUESTIONS” Section of Addendum also includes additional changes to Drawings)

Drawing C-001: Has been reissued to add note to monitor weather.

Drawing C-002: Has been reissued to show potential sanitary sewer discharge manholes and add a note to maintain parking spots and access to the City Hall/Police Station rear entrance.

Drawing C-110 & C-111: Have been reissued to show the reduced demolition extents at the plan east end of the tunnel.

Drawing C-112: Has been reissued to show the removal of all four Zelkova trees parallel to Johnson St, the section of ceiling only demo, and additional pavement removal.

Drawing C-113: Has been reissued to show the ceiling only replacement and the reduced extents of tunnel replacement at the plan east end of the tunnel.

Drawing C-114: Has been reissued to show the addition of CO-3, modifications to CO-1 and CO-2, increase the length of 10” CI water line to be replaced, removal of the replacement of 8 LF of 30” RCP at the plan east end of the tunnel, relocation of two gas lines, and modifications to the notes section.

Drawing C-115: Has been reissued to show the replacement of two additional Zelkova trees, the reduced extent of surface restoration at the plan east of the tunnel, and updates to the surface restoration quantities.

Drawing C-116: Has been reissued to add “Sanitary Sewer Profile C” and show revisions to the “Gas Relocation Profile”, “Sanitary Sewer Profile A”, and the “Water Line Profile – Johnson Street.”

Drawing C-502: Has been reissued to swap the pipe trench and concrete collar detail with C-503 and add a detail for the gas line trench.

Drawing C-503: Has been reissued to add details for CO-1, CO-2, and CO-3

Drawing S-301: Has been reissued to revise precast concrete section near the garage entrance along Johnsons Street.

Drawing S-302: Has been issued to include a section of cast-in-place tunnel roof near the garage entrance along Johnsons Street.

Drawing S-401: Has been reissued to revise precast concrete plan near the garage entrance along Johnsons Street.

SPECIFICATIONS

**(Information provided in “RESPONSE TO QUESTIONS”
Section of Addendum also includes additional changes to
Specifications)**

Revise specification DIVISION 00 – PROCUREMENT AND CONTRACTING REQUIREMENTS, EJCDC C-800, SUPPLEMENTARY CONDITIONS OF THE CONSTRUCTION CONTRACT, ARTICLE 8 -OTHER WORK AT THE SITE, to delete SC-8.02 and replace with the following.

SC-8.02 Add the following new Paragraph 8.02.C immediately after Paragraph 8.02.B:

- C. Columbia Gas will perform the gas line relocation at Johnson Street. Columbia Gas will provide and construct pipe and casing. The Contractor will prepare trench, set the pipe assemblies as directed by Columbia Gas within the trench, and backfill. The contractor is responsible for all required utility relocations, demolition, excavation, trenching, bypass pumping, shoring, dewatering, and any other incidentals required to facilitate Columbia Gas’s work. The contractor shall provide Columbia Gas with a minimum of four weeks’ advance notice and allow a one-week period for completion of the pipe installations below the tunnel and up to another two-week period for Columbia Gas to complete work to tie into their existing pipes.

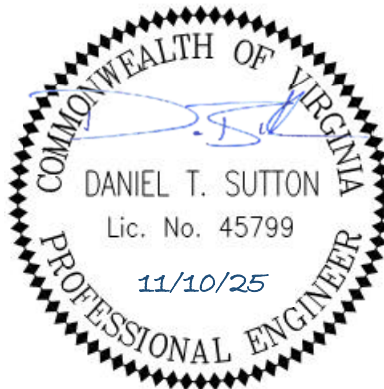
Revise specification DIVISION 00 – INSTRUCTIONS TO BIDDERS FOR CONSTRUCTION CONTRACT, TABLE OF CONTENTS, to include Article 11 Subcontractors, Suppliers, and Others and correct the subsequent Article numbers.

ATTACHMENTS

1. Revised Drawings
2. DIVISION 00 – INSTRUCTIONS TO BIDDERS FOR CONSTRUCTION CONTRACT, TABLE OF CONTENTS
3. ShuvlNose Adaptor cut sheet
4. Photos of the work area inside the tunnel

End of Addendum No. 3

Wiley|Wilson



Dan T. Sutton, PE

E

D

C

B

A

SURVEY NOTES:

- THIS TOPOGRAPHIC WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF, BRIAN S HARVEY, LS FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION; THAT THE IMAGERY AND/OR ORIGINAL DATA WAS OBTAINED ON MAY 5-29, 2025; AND THAT THIS PLAT, MAP, OR DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.
- SURVEY CONDUCTED BY WILEY|WILSON, MAY 2025. VERTICAL CONTROL: NAVD 88; HORIZONTAL CONTROL: NAD 83 VIRGINIA STATE PLANE COORDINATE SYSTEM, NORTH ZONE, U.S. SURVEY FOOT.
- ALL EXISTING UNDERGROUND UTILITY LOCATIONS AS SHOWN ON THESE PLANS ARE APPROXIMATE AND MAY NOT REPRESENT ALL UNDERGROUND UTILITIES OR SERVICE LINES.
- SOURCE OF EXISTING UTILITY MAPPING: UTILITY LOCATIONS ARE BASED ON QUALITY LEVEL "B" AS DEFINED BY ASCE STANDARD 38-02 "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT LOCATION, DEPTH, SIZE, AND TYPE OF UTILITIES SHOWN AND NOTIFYING ENGINEER OF DISCREPANCIES. CONTRACTOR IS SOLELY RESPONSIBLE FOR DAMAGE TO PROPERTY, UTILITIES, OR PHYSICAL IMPROVEMENTS.
- MISS UTILITY WAS CONTACTED PRIOR TO TOPOGRAPHIC SURVEY. MISS UTILITY DESIGN TICKET NUMBER B427401367, DATED APRIL 5, 2025.
- CONTRACTOR SHALL CONTACT "MISS UTILITY" AT 1-800-552-7001 PRIOR TO BEGINNING ANY EXCAVATION OR DEMOLITION IN ACCORDANCE WITH THE VIRGINIA UNDERGROUND UTILITY DAMAGE PREVENTION ACT.
- THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS NOT INTENDED TO SHOW ALL EASEMENTS THAT MAY AFFECT THE PROPERTY.
- ALL PROPERTY PINS DISTURBED BY CONTRACTOR ACTIVITIES SHALL BE REPLACED BY A VIRGINIA LICENSED LAND SURVEYOR.
- THE EXISTENCE OF HAZARDOUS WASTE, VEGETATED WETLANDS, OR TIDAL WETLANDS WAS NEITHER INVESTIGATED NOR CONFIRMED DURING THE PERFORMANCE OF THIS SURVEY.

GENERAL NOTES

- ALL WORK MUST BE PERFORMED IN STRICT COMPLIANCE WITH THE MOST CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS, INCLUDING BUT NOT LIMITED TO, ENVIRONMENTAL PROTECTION AGENCY (EPA), OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), NATIONAL EMISSIONS STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAPS), AND NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH (NIOSH).
- PROVIDE NECESSARY PROTECTION TO AREAS NOT IDENTIFIED FOR REMOVAL AND REPLACEMENT.
- THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL CONFINED SPACE ENTRY REGULATIONS.
- WHEN DURING THE COURSE OF CONSTRUCTION, ANY OBJECT OF AN UNUSUAL NATURE IS ENCOUNTERED, CEASE WORK IN THAT AREA AND IMMEDIATELY NOTIFY THE OWNER OR OWNERS REP.
- A SMOOTH GRADE MUST BE MAINTAINED FROM EDGE OF EXISTING PAVEMENT TO CURB AND GUTTER AND/OR PAVEMENT TO PRECLUDE THE FORMING OF FALSE GUTTERS AND/OR THE PONDING OF ANY WATER ON THE PAVEMENT. REMOVE AND RECONSTRUCT EXISTING PAVEMENT AND/OR CURB AS DICTATED BY FIELD CONDITIONS TO PROVIDE POSITIVE DRAINAGE AT TIE-IN-POINTS.
- ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO AS NEAR AS POSSIBLE TO ORIGINAL CONDITION. CURBS, SIDEWALKS, CONCRETE DRIVEWAYS, AND CONCRETE ROADWAYS MUST BE REPLACED TO THE FIRST EXPANSION JOINT BEYOND THE TRENCH EXCAVATION LIMITS AND MUST MATCH EXISTING.
- NO TREES SHALL BE REMOVED, TRIMMED, OR DAMAGED DURING ANY CONSTRUCTION ACTIVITIES, EXCEPT WHERE NOTED.
- ALL SOLID WASTE, HAZARDOUS WASTE, AND HAZARDOUS MATERIALS MUST BE MANAGED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULATIONS.
- ALL EXISTING UTILITIES MAY OR MAY NOT BE SHOWN IN THEIR EXACT LOCATION. CONTRACTOR TO VERIFY LOCATIONS AND DEPTHS OF EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTOR MUST HAVE INDEPENDENT UTILITY LOCATOR TO PERFORM SUE LEVEL B LOCATING SERVICES PRIOR TO CONSTRUCTION.
- VERIFY ALL DIMENSIONS AT THE PROJECT SITE BEFORE STARTING CONSTRUCTION, ORDERING OR FABRICATING ANY EQUIPMENT.
- LENGTHS OF LINES INDICATED ON THE DRAWINGS FOR UTILITY SYSTEMS ARE APPROXIMATE ONLY. DETERMINE THE EXACT AMOUNT OF PIPING REQUIRED TO FURNISH A COMPLETE WORKING SYSTEM IN ACCORDANCE WITH THE INTENT OF THE DRAWINGS.
- PROVIDE ALL CONNECTING PIECES AND TRANSITION PIECES REQUIRED TO MAKE FINAL PIPING CONNECTIONS.
- REPAIR ANY ACTIVE UTILITIES DAMAGED DURING CONSTRUCTION AND NOTIFY THE OWNER OF THE DAMAGE.
- SUBMIT A UTILITY OUTAGE REQUEST A MINIMUM OF SEVEN (7) DAYS IN ADVANCE OF ANY UTILITY OUTAGE.
- PHASE CONSTRUCTION IN ORDER TO MINIMIZE DISRUPTION TO UTILITIES DURING INSTALLATION, DEMOLITION, AND REMOVAL.
- ALL NEW ASPHALT PAVEMENT WILL INCLUDE RESTRIPIPING PARKING/ROAD TO MATCH EXISTING LINES.
- INSTALL ALL MANUFACTURED ITEMS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- DO NOT SCALE THE DRAWINGS. ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS, OR ANY AMBIGUITIES OR INCONSISTENCIES CONTAINED THEREIN, SHALL BE REPORTED TO ENGINEER AT THE EARLIEST OPPORTUNITY, AND A SUITABLE RESOLUTION ESTABLISHED PRIOR TO THE SUBMITTAL OF BIDS OR THE BEGINNING OF THE AFFECTED WORK. WORK THAT PROCEEDS IN VIOLATION OF THIS PRINCIPLE IS AT THE CONTRACTOR'S OWN RISK, AND THE COST OF ANY CHANGES REQUIRED TO SUITABLY MODIFY SUCH WORK SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
- SEE STRUCTURAL DRAWINGS FOR TUNNEL REPAIR PLAN.
- VERIFY DEPTH, DIMENSIONS, AND PIPE MATERIAL OF EX WATER LINE PRIOR TO CONSTRUCTION.
- COORDINATE WATER LINE ISOLATION WITH CITY OF STAUNTON PUBLIC WORKS.
- SUBMIT SANITARY SEWER BYPASS PLAN FOR APPROVAL PRIOR TO BEGINNING CONSTRUCTION.
- THICKNESS OF EXISTING TUNNEL WALLS ARE UNKNOWN. THICKNESS IS SHOWN FOR VISUALIZATION ONLY. REFER TO STRUCTURAL DRAWINGS FOR DESIGN TUNNEL WIDTH.
- PROVIDE CITY OF STAUNTON WITH 7 DAY NOTICE FOR ROAD CLOSURES NOT INCLUDED IN THE TRAFFIC CONTROL PLAN SHEETS C-601 AND C-602.
- CONTRACTOR SHALL BE INFORMED AND SHALL COMPLY WITH THE VIRGINIA OVERHEAD HIGH VOLTAGE LINE SAFETY ACT. ANY CONTRACTOR SHALL RETAIN FULL LIABILITY FOR COMPLIANCE WITH OSHA REGULATIONS AND THE SAFETY ACT. COSTS TO COVER LINES OR DISCONNECT SERVICE TO NEARBY POWER LINES SHALL BE AT THE CONTRACTOR'S EXPENSE.
- FOR THE DURATION OF THE PROJECT THE CONTRACTOR SHALL PROVIDE CONTINUOUS MONITORING OF APPROACHING WEATHER PATTERNS. THEY SHALL MONITOR THE NATIONAL WEATHER SERVICE FOR RUNOFF PRODUCING PRECIPITATION EVENTS THAT WOULD AFFECT IN-STREAM FLOWS. FOR ANY EVENT THAT WILL CAUSE INCREASED FLOW, CONTRACTOR SHALL DETERMINE THE IMPACTS TO THE CONSTRUCTION AREA AND TAKE THE APPROPRIATE PRECAUTIONS. WORK SITE SAFETY SHALL BE MAINTAINED TO PROTECT WORKERS, EQUIPMENT, MATERIALS, SURROUNDING AREA, AND PUBLIC. PROTECT AREAS OF EXCAVATION FROM ELEVATED FLOWS TO THE GREATEST EXTENT POSSIBLE. AREAS IMPACTED BY WET WEATHER FLOWS SHALL BE RESTORED AND STABILIZED IMMEDIATELY AFTER HIGH FLOW EVENTS.

ABBREVIATIONS

APPROX	APPROXIMATELY	L	LENGTH
BLDG	BUILDING	LF	LINEAR FEET
		LT	LEFT TURN
CI	CAST IRON	MH	MANHOLE
CIP	CAST IN PLACE/CAST IRON PIPE	MIN	MINIMUM
CMP	CORRUGATED METAL PIPE	MJ	MECHANICAL JOINT
COMM	COMMUNICATION		
CONC	CONCRETE	N	NORTHING
CY	CUBIC YARD	NGAS	NATURAL GAS
DEMO	DEMOLITION	PVC	POLYVINYL CHLORIDE
DI	DUCTILE IRON		
DIA	DIAMETER	RCP	REINFORCED CONCRETE PIPE
DIP	DUCTILE IRON PIPE	RT	RIGHT TURN
E	EASTING	SAN	SANITARY
EA	EACH	SD	STORM DRAIN
EL	ELEVATION	SS	SANITARY SEWER
ELEV	ELEVATION	STA	STATION
EX	EXISTING	SY	SQUARE YARD
FFE	FINISHED FLOOR ELEVATION	T.O.P.	TOP OF PIPE
FT	FOOT/FEET	TYP	TYPICAL
FTG	FOOTING		
GV	GATE VALVE	UNK	UNKNOWN
HORIZ	HORIZONTAL	VC	VITRIFIED CLAY
HP	HIGH POINT	VERT	VERTICAL
HWL	HIGH WATER LEVEL	WL	WATERLINE
IN	INCHES	WV	WATER VALVE
INT	INTERIOR		
INV	INVERT		

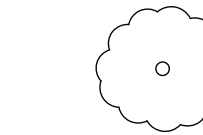
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NEW



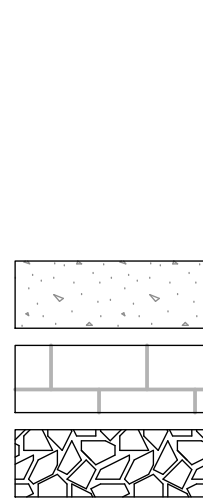
BENCHMARK
CONTROL POINT
CONTROL POINT - NAIL SET
DROP INLET
CURB INLET
STORM MANHOLE
SANITARY MANHOLE
SANITARY CLEANOUT
POWER POLE
GUY WIRE
FIRE HYDRANT
WATER VALVE
HOSE BIB
SIGN
BOLLARD



TREE



TUNNEL WALL
SOIL DELINEATION
EDGE OF PAVEMENT
GUARD RAIL
FENCELINE
BRUSH LINE
MAJOR CONTOURS
MINOR CONTOURS
OVERHEAD TELEPHONE.
UNDERGROUND TELECOM
UNDERGROUND NATURAL GAS
OVERHEAD ELECTRIC
UNDERGROUND ELECTRIC
GUY WIRE
SANITARY LINE
STORM LINE
WATER LINE
DITCH



NEW TUNNEL
ASPHALT MILL AND OVERLAY
FULL DEPTH ASPHALT REPLACEMENT
CONCRETE SIDEWALK
BRICK SIDEWALK
RIP RAP



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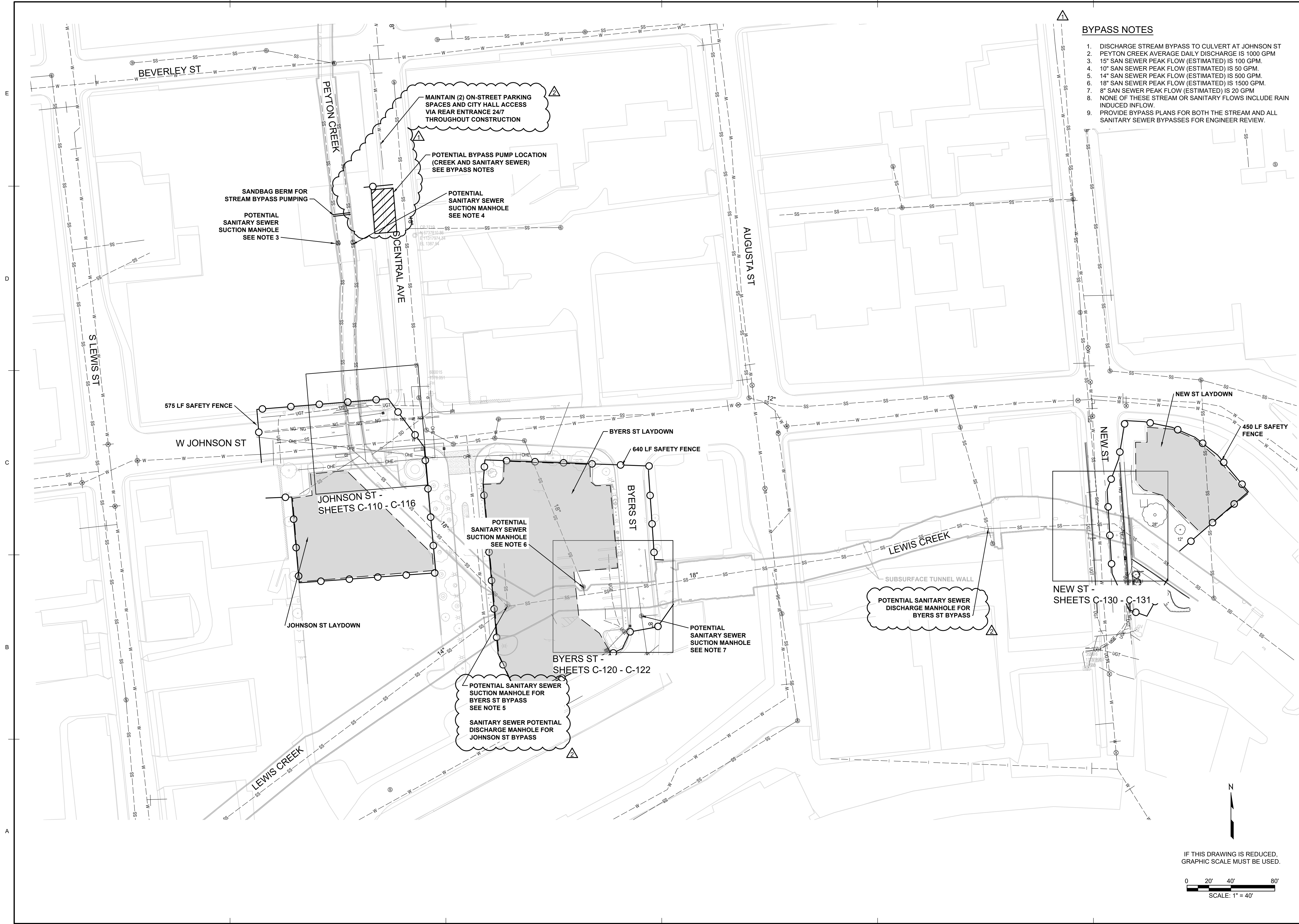
CITY OF STAUNTON
JOHNSON, BYERS, AND NEW
STREET TUNNEL REPAIRS
STAUNTON, VIRGINIA

REVISION DESCRIPTION
1 11/07/2025 ADDENDUM 3
MRK DATE

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DATE:	10/06/2025
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SHEET TITLE	
CIVIL GENERAL NOTES, LEGEND AND ABBREVIATIONS	
SHT. NO. C-001	REV. NO. 1

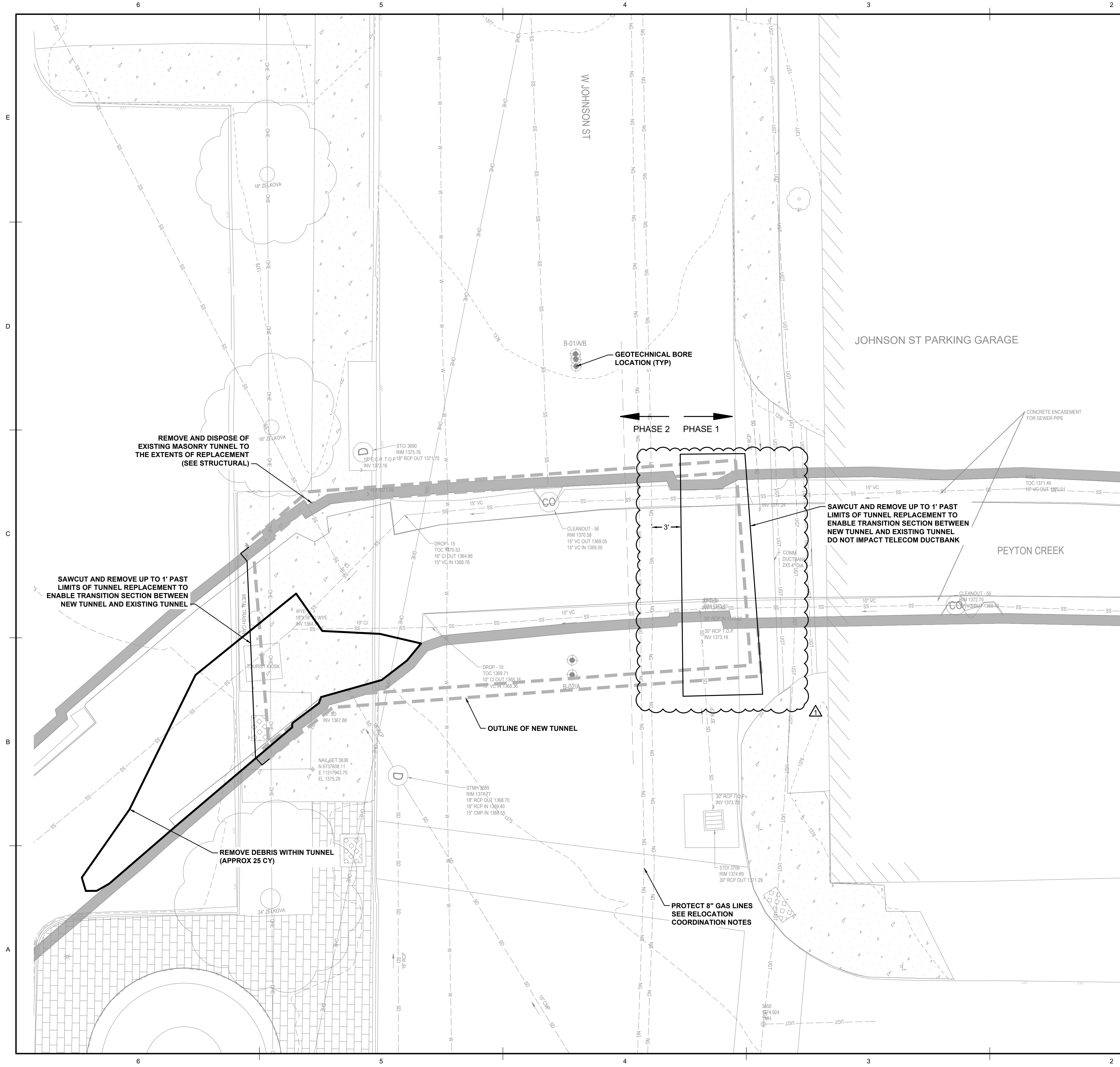
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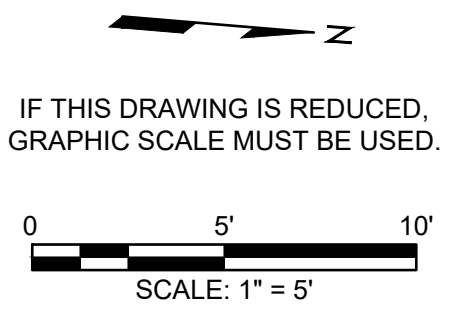


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- DEMOLITION NOTES**
1. DEMOLITION OF THE JOHNSON ST TUNNEL WILL REQUIRE TWO PHASES. PHASE 1 IS THE MINIMUM TUNNEL DEMOLITION REQUIRED TO RELOCATE THE GAS LINES. PHASE 2 IS THE COMPLETE TUNNEL DEMOLITION REQUIRED TO REMOVE AND REPLACE THE TUNNEL AND IMPACTED UTILITIES PER SHEETS C-110 THROUGH C-112. SEE SHEET C-114 FOR THE GAS LINE RELOCATION PLAN.
 2. PHASE 1 TUNNEL DEMO SHALL INCLUDE NO MORE THAN THE OUTLINED AREA ON THIS SHEET AND CAN BE AS LITTLE AS NECESSARY TO INSTALL THE GAS LINES.
 3. PHASE 2 TUNNEL DEMO WILL OCCUR AFTER THE GAS LINE OFFSET IS COMPLETED, TESTED, AND IN USE. CONFIRM WITH COLUMBIA GAS PRIOR TO REMOVING THE EXISTING GAS LINES.



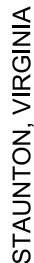
CITY OF STAUNTON

JOHNSON, BYERS, AND NEW STREET TUNNEL REPAIRS

STAUNTON, VIRGINIA

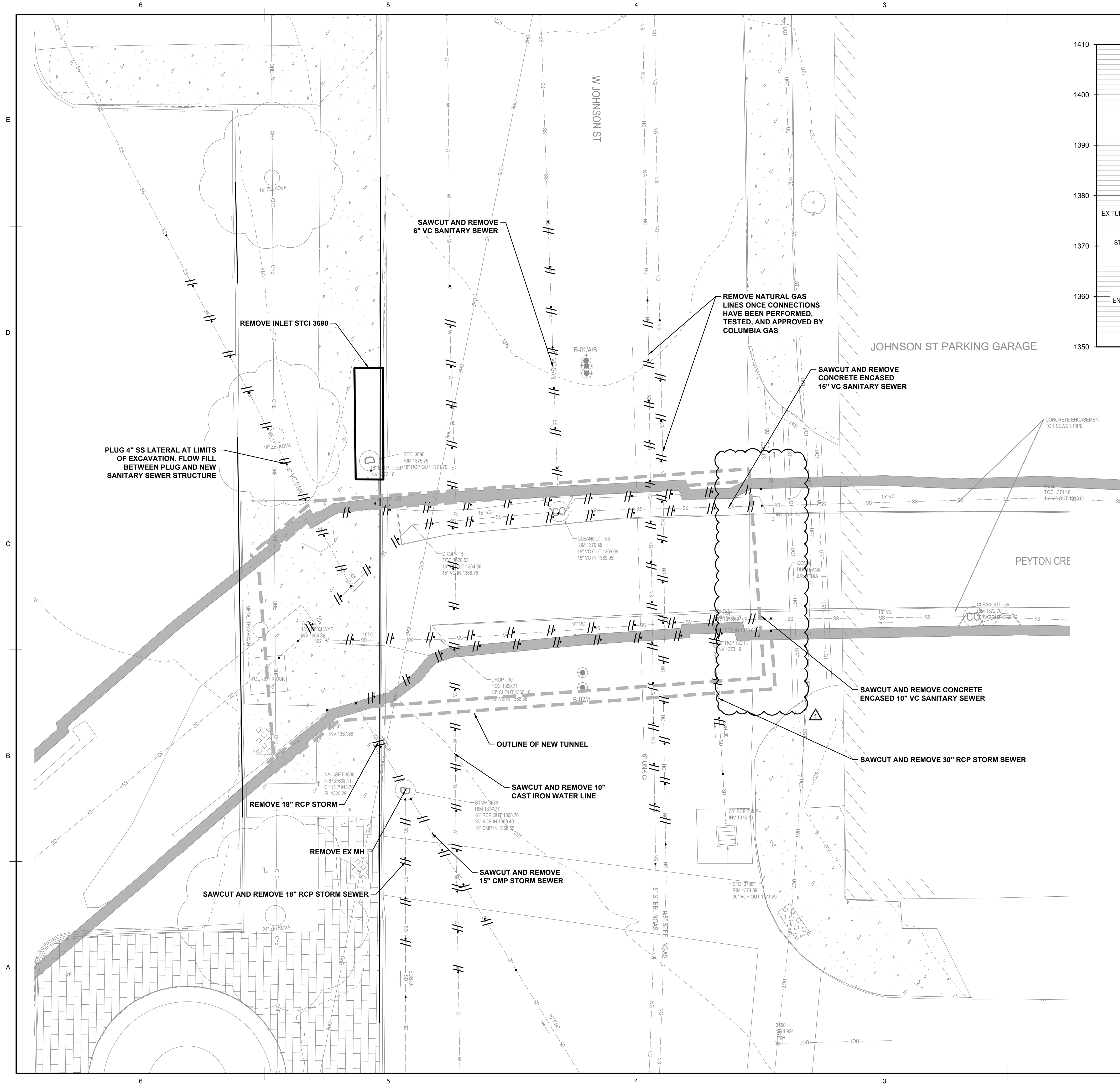
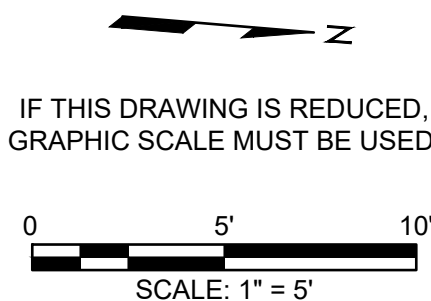
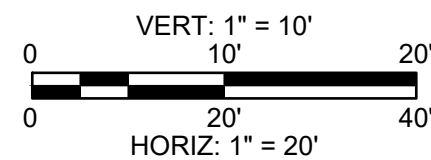
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JOHNSON ST EXISTING CONDITIONS AND TUNNEL DEMOLITION	
SHT. NO. C-110	REV. NO. 1



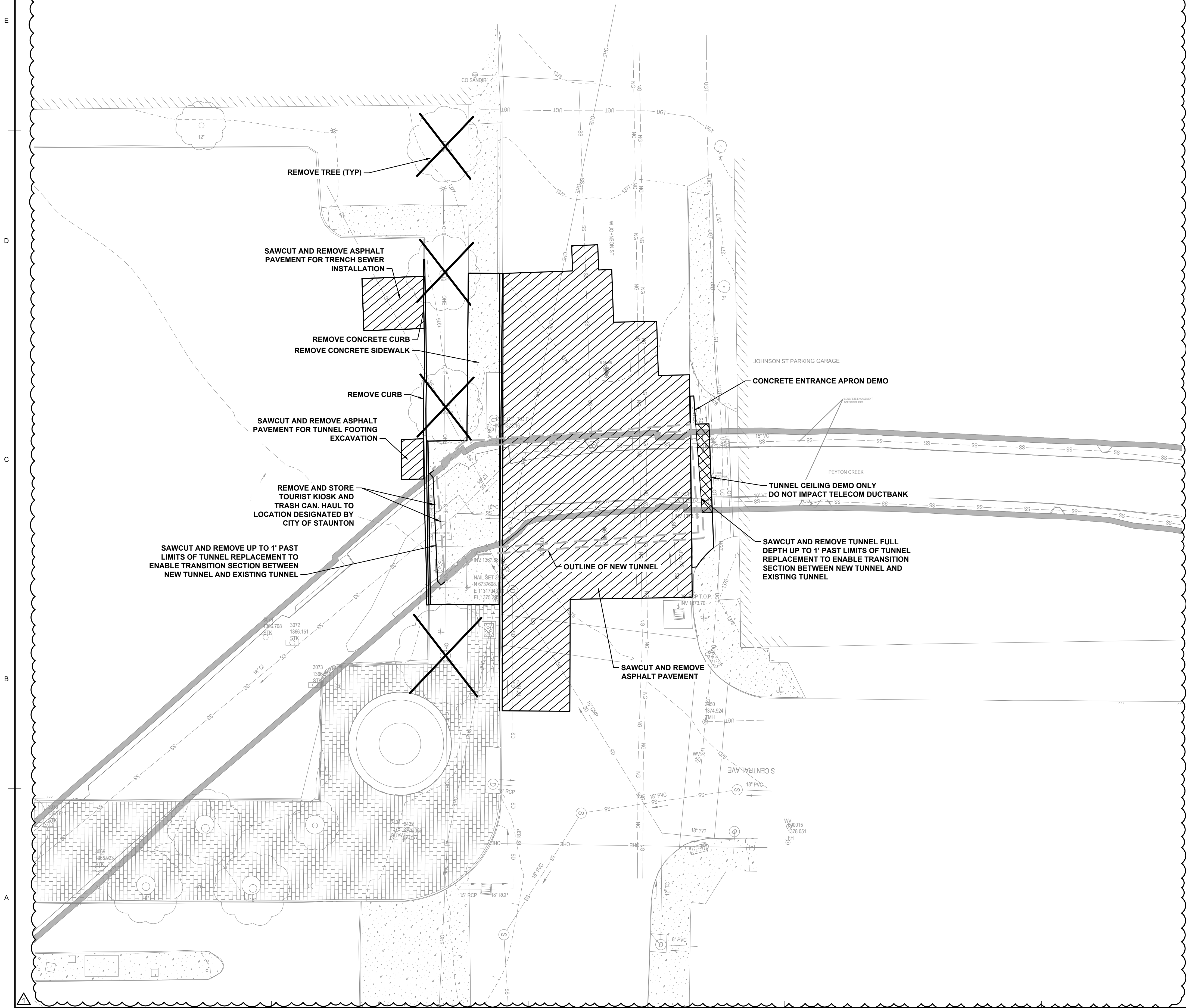
CITY OF STAUNTON

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SHT. NO. C-111	REV. NO. 1

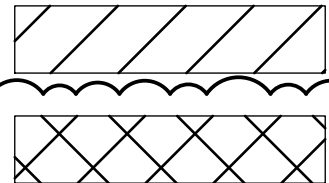


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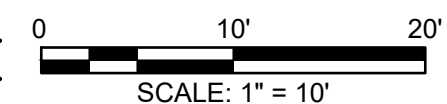
LEGEND:



FULL DEPTH ASPHALT REMOVAL

TUNNEL CEILING REMOVAL

IF THIS DRAWING IS REDUCED,
GRAPHIC SCALE MUST BE USED.



CITY OF STAUNTON

JOHNSON, BYERS, AND NEW
STREET TUNNEL REPAIRS

STAUNTON, VIRGINIA

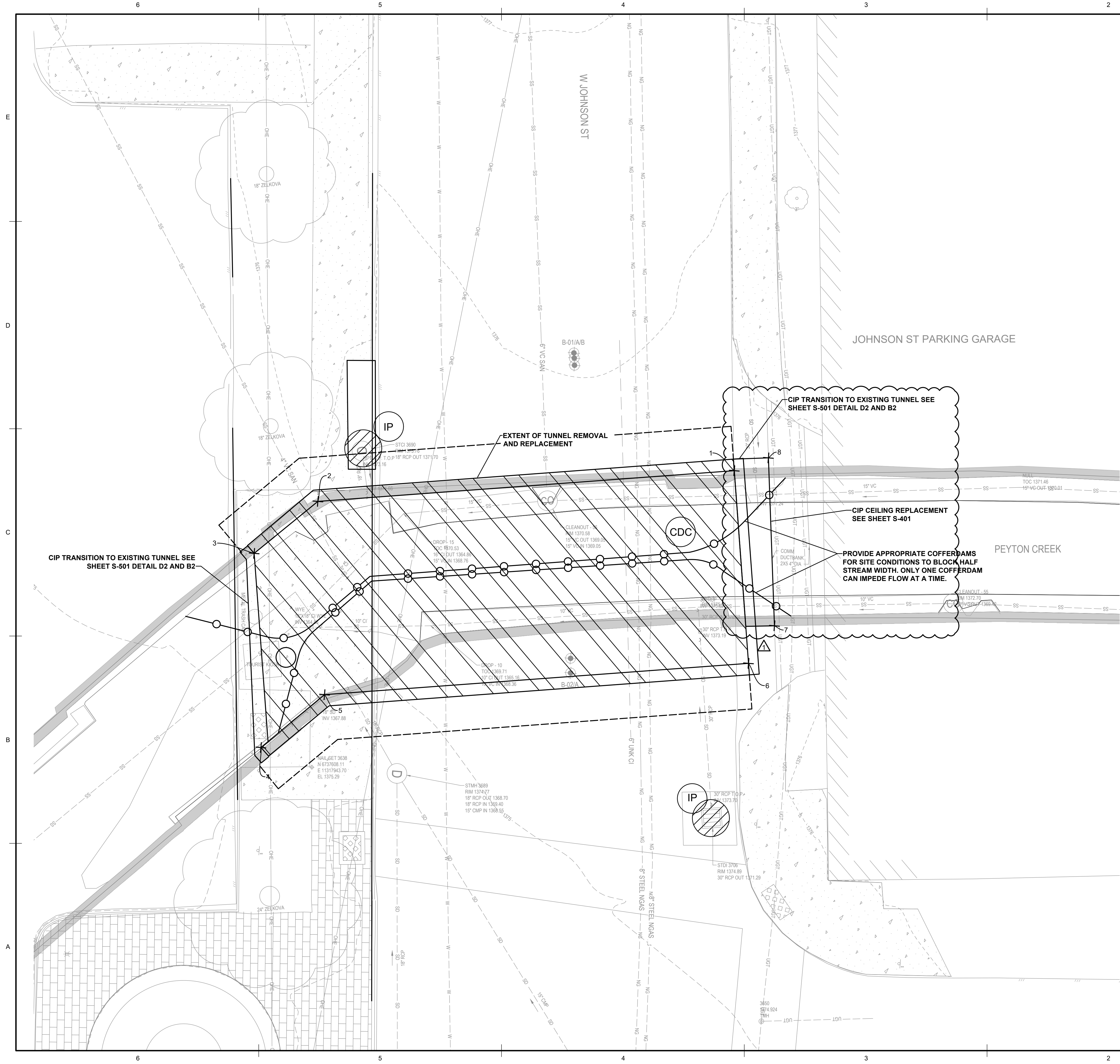


COMM NO:	240197
DATE:	10/06/2025
DRAWN: FAH	DESIGN: FAH
CHECK: WRM	
SHEET TITLE	
JOHNSON ST SURFACE DEMO	
SHT. NO.	REV. NO.
C-112	1

MRK	DATE	REVISION DESCRIPTION
1	11/07/2025	ADDENDUM 3

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TUNNEL LAYOUT POINTS			
POINT #	NORTHING	EASTING	DESCRIPTION
1	6737648.24	11317910.20	TUNNEL CORNER
2	6737606.48	11317916.82	TUNNEL CORNER
3	6737600.48	11317922.60	TUNNEL CORNER
4	6737602.81	11317942.14	TUNNEL CORNER
5	6737608.78	11317936.27	TUNNEL CORNER
6	6737651.30	11317929.53	TUNNEL CORNER
7	6737653.60	11317925.53	CEILING CORNER
8	6737651.57	11317908.62	CEILING CORNER

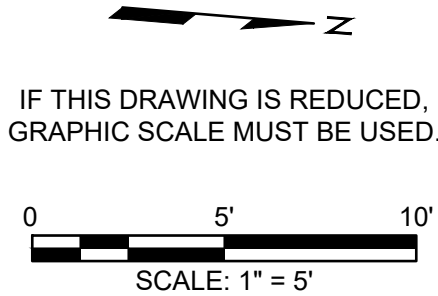
ENVIRONMENTAL SENSITIVE AREA PROTECTION	
C-ENV-04 UTILITY STREAM CROSSING	
C-ENV-05 COFFERDAM CROSSING	

SEDIMENT CONTROL MEASURES	
C-SCM-04 INLET PROTECTION	
C-ECM-13 CONCRETE WASHOUT PIT	

SURFACE STABILIZATION MEASURES	
C-SSM-01 TREE PRESERVATION AND PROTECTION	
C-SSM-02 TOPSOILING	
C-SSM-09 TEMPORARY SEEDING	
C-SSM-10 PERMANENT SEEDING	
C-SSM-11 MULCHING	

EROSION AND SEDIMENT NOTES

1. INSTALL INLET PROTECTION AT ALL INLETS THAT COULD RECEIVE SEDIMENT LADEN RUNOFF
2. ONLY ONE COFFERDAM CAN IMPEDE FLOW AT A TIME
3. SEE ADDITIONAL NOTES ON SHEET C-401 AND C-402, AND ESC DETAILS ON C-403
4. DIRECT RUNOFF FROM THE STREET TOWARDS AN EXISTING INLET OR A STABILIZED OUTFALL INTO THE STREAM TO PREVENT UNCONTROLLED FLOW INTO THE WORK ZONE.





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CITY OF STAUNTON

JOHNSON, BYERS, AND NEW
STREET TUNNEL REPAIRS

STAUNTON, VIRGINIA

REV	DATE	DESCRIPTION
1	11/07/2025	ADDENDUM 3

COMM NO: 240197

DATE: 10/06/2025

DRAWN: FAH DESIGN: FAH

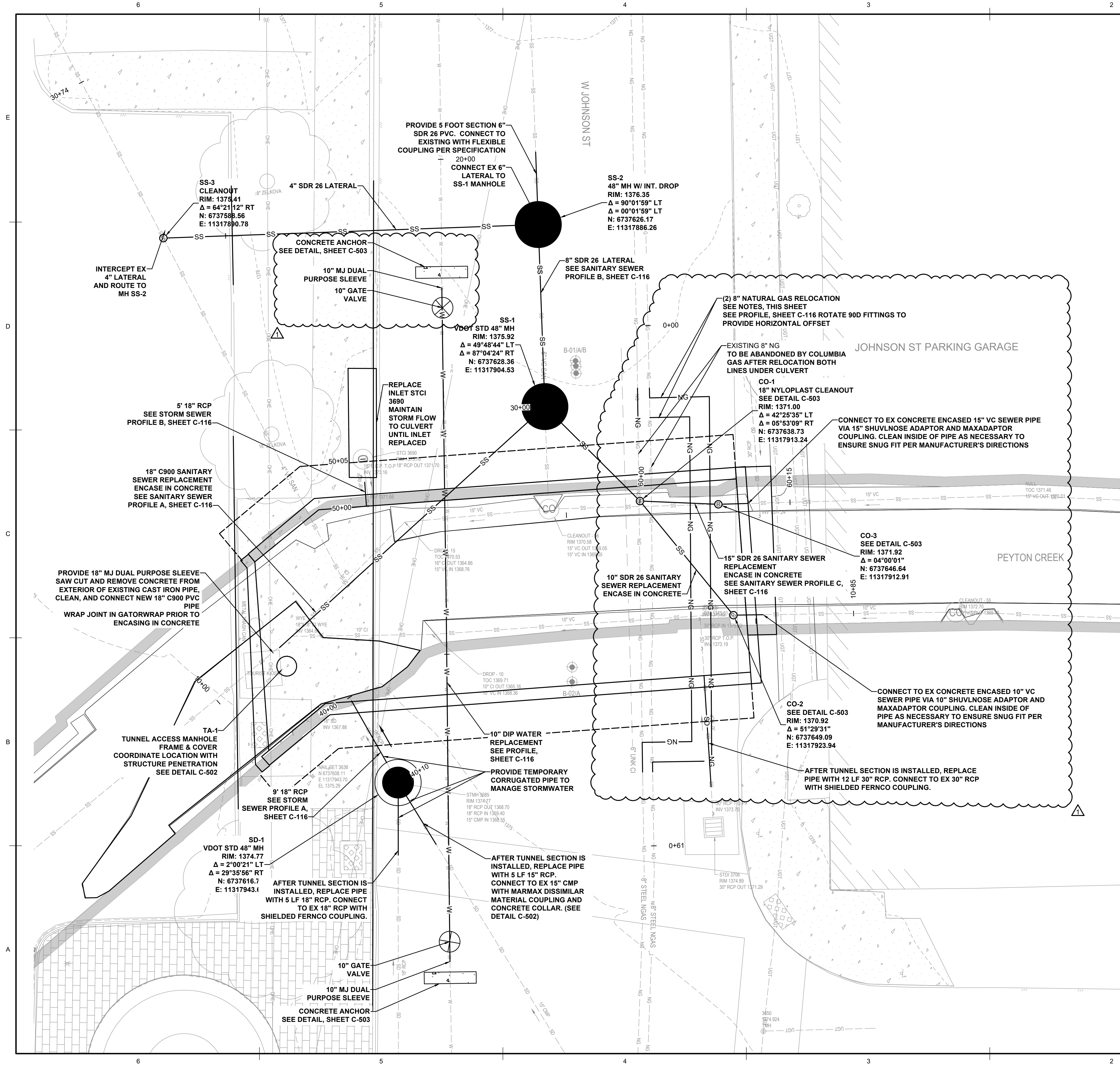
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SHEET TITLE

JOHNSON ST TUNNEL LAYOUT

SHT. NO. C-113

REV. NO. 1



NOTES

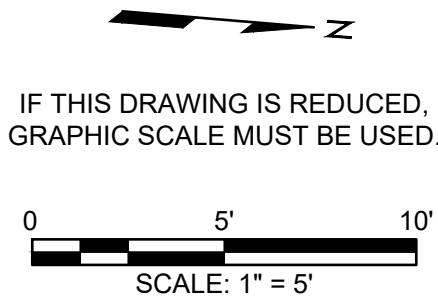
1. SEE STRUCTURAL DRAWINGS FOR TUNNEL REPAIR PLAN
2. VERIFY DEPTH, DIMENSIONS, AND PIPE MATERIAL OF EX WATER LINE PRIOR TO CONSTRUCTION
3. COORDINATE WATER LINE ISOLATION WITH CITY OF STAUNTON PUBLIC WORKS. SEE VALVE LOCATIONS ON SHEET C-002 OVERALL PLAN
4. EXISTING SANITARY SEWER INTERCEPTORS ARE ENCASED IN CONCRETE. CLEANLY SAWCUT AT TIE IN LOCATIONS AND CONNECT AS NOTED ON PLAN
5. COLUMBIA GAS WILL INSTALL THE GAS LINES IN A TRENCH DUG BY THE CONTRACTOR BYPASS PUMPING FOR THE SANITARY MAINS AND STREAM FLOW IS THE RESPONSIBILITY OF THE CONTRACTOR. ONCE THE GAS LINES HAVE BEEN TIED IN AND TESTED AND THE GAS LINE TRENCH BACKFILLED TO STREAM LEVEL, THE CONTRACTOR CAN RESUME DEMOLISHING THE TUNNEL
6. CONTRACTOR RESPONSIBLE FOR MAINTAINING STORMWATER FLOW FROM ANY INLETS, MANHOLES OR PIPES DISTURBED BY THE CONSTRUCTION WORK
7. PROVIDE FLEXIBLE BOOT OR GROUT AND BRICK TO SEAL AROUND PIPE AS IT ENTERS THE NEW TUNNEL
8. SEE SHEETS C-503 AND S-501 FOR CLEANOUT RISER AND PIPE ENCASEMENT DETAILS
9. PROVIDE SHAPED CONCRETE INVERTS IN THE SANITARY SEWER MANHOLES AND CO-1 TO SMOOTHLY TRANSITION FLOW

SEQUENCE OF CONSTRUCTION - JOHNSON ST

1. REROUTE GAS MAINS IN COORDINATION WITH COLUMBIA GAS.
2. REMOVE TUNNEL CEILING AND INSTALL WALL AND CEILING BRACING AS NECESSARY
3. REMOVE DEBRIS PILE
4. REPLACE 10" WATER LINE
5. CONSTRUCT SANITARY LATERAL REROUTE (SS-3 AND SS-2) PRIOR TO DEMOLISHING THE CLEANOUTS WHERE THEY ENTER THE TUNNEL. BYPASS PUMP FROM SS-2
6. DEMOLISH, REPLACE, AND TIE IN SANITARY SEWER MAINS. COORDINATE WITH CONCRETE FOOTER AND STEM WALL PER STRUCTURAL DRAWINGS
7. POUR CAST IN PLACE FOOTER AND STEM WALL
8. PLACE PRECAST TUNNEL SECTIONS
9. RECONNECT STORM PIPES TO TUNNEL

GAS LINE RELOCATION:

1. THE 8" MEDIUM PRESSURE GAS LINE AND 8" LOW PRESSURE GAS LINE MUST BE RELOCATED AS THE INITIAL PHASE OF CONSTRUCTION. DUE TO THE IMPORTANT NATURE OF THE GAS LINES, COATING REQUIREMENTS, AND LIMITED OUTAGE REQUIREMENTS THE ENTIRE REPLACEMENT SECTION OF PIPE FOR EACH MAIN MUST BE WELDED TOGETHER ABOVE GRADE AND SET IN PLACE IN ONE PIECE. RELOCATION WILL INVOLVE THE FOLLOWING ACTIVITIES:
2. COLUMBIA GAS WILL PROVIDE, WELD, AND COAT THE NEW GAS LINE PIPING WITH CASINGS PER THEIR INTERNAL SPECIFICATIONS.
3. CONTRACTOR MUST SAW CUT PAVEMENT, REMOVE THE TUNNEL TOP, WALLS, AND FOOTINGS IN THE TRENCH AREA OF GAS LINE RELOCATION.
4. CONTRACTOR MUST BYPASS STREAM FLOW AND SANITARY SEWER FLOW TO ALLOW TRENCH EXCAVATION FOR RELOCATION. SAW CUT AND REMOVE A 10-FOOT SECTION OF CONCRETE ENCASED SANITARY SEWER PIPE FOR EACH OF THE TWO SANITARY SEWER MAINS AFTER BYPASS IS INITIATED.
5. CONTRACTOR MUST EXCAVATE THE TRENCH FOR THE GAS LINE RELOCATION INCLUDING ALL SHORING REQUIREMENTS AND DEWATERING. THE ENTIRE TRENCH WILL NEED TO BE OPEN FOR GAS LINE PLACEMENT BECAUSE THE EACH REPLACEMENT SECTION WILL BE SET IN ONE PIECE.
6. CONTRACTOR MUST PROVIDE, PLACE, AND COMPACT BEDDING MATERIAL FOR THE GAS PIPE. PROVIDE RIGGING AND SETTING EQUIPMENT FOR PLACEMENT OF THE GAS LINE. SET THE PIPE IN THE TRENCH.
7. COLUMBIA GAS WILL CONNECT THE NEW STEEL GAS MAIN TO THE EXISTING MAIN AND TEST.
8. CONTRACTOR MUST PROVIDE BACKFILL OF THE GAS LINE TRENCH TO STREAM LEVEL WITHIN THE LIMITS OF EXISTING TUNNEL. SLOPE BACKFILL UP TO GRADE ON EACH SIDE OF EXISTING TUNNEL LIMITS.
9. CONTRACTOR MUST PROVIDE A LINK SEAL AND 12 FOOT SECTION OF PIPE, ONE PIPE SIZE SMALLER, TO RESTORE EACH OF THE SANITARY SEWER MAINS. COORDINATE LINK SEAL SIZING FOR APPLICATION WITH MANUFACTURER TO ENSURE PROPER FIT. THIS WILL BE TEMPORARY UNTIL THE PERMANENT RELOCATION IS PERFORMED.
10. CONTRACTOR MUST STOP BYPASS PUMPING AND RESTORE FLOW TO STREAM AND SANITARY SEWER. FUTURE SANITARY SEWER BYPASS WILL BE REQUIRED FOR SEWER MAIN RELOCATIONS.
11. ONCE THE GAS LINE RELOCATION HAS BEEN PERFORMED, COLUMBIA GAS WILL LEAVE THE SITE AND CONSTRUCTION MAY PROGRESS TO COMPLETION.
12. REFER TO PROJECT MANUAL DIV 00, C-800, SC-8.02 FOR COORDINATION REQUIREMENTS.





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CITY OF STAUNTON

JOHNSON, BYERS, AND NEW
STREET TUNNEL REPAIRS

STAUNTON, VIRGINIA

MRK	DATE	REVISION DESCRIPTION
1	11/07/2025	ADDENDUM 3

COMM NO: 240197

DATE: 10/06/2025

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SHEET TITLE

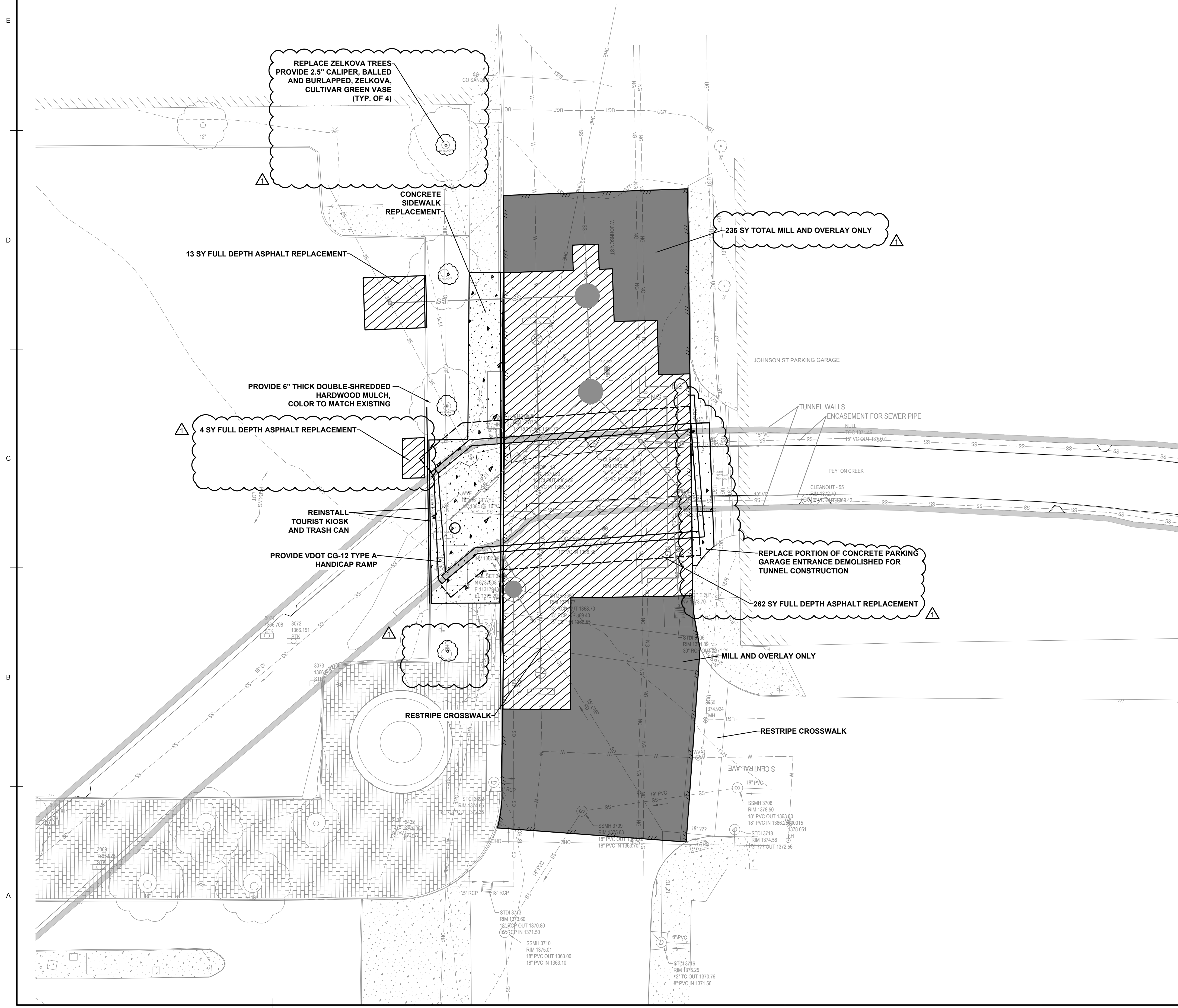
JOHNSON ST UTILITY PLAN

SHT. NO. C-114

REV. NO. 1

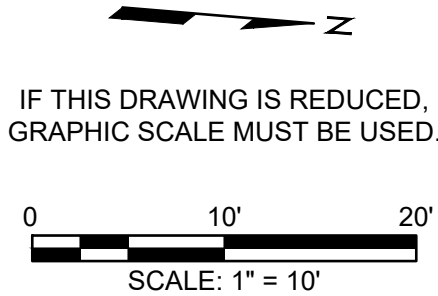
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NOTES

1. PROVIDE 497 SY MILL AND OVERLAY (INCLUDES MILLING AND OVERLAY OF FULL DEPTH ASPHALT REPLACEMENT IN JOHNSON ST).
2. PROVIDE 278 SY FULL DEPTH ASPHALT REPLACEMENT.
3. PROVIDE 71 SY CONCRETE SIDEWALK REPLACEMENT AND 12 SY CONCRETE APRON REPLACEMENT.
4. REPLACE CURB DISTURBED BY FULL DEPTH EXCAVATION.





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CITY OF STAUNTON

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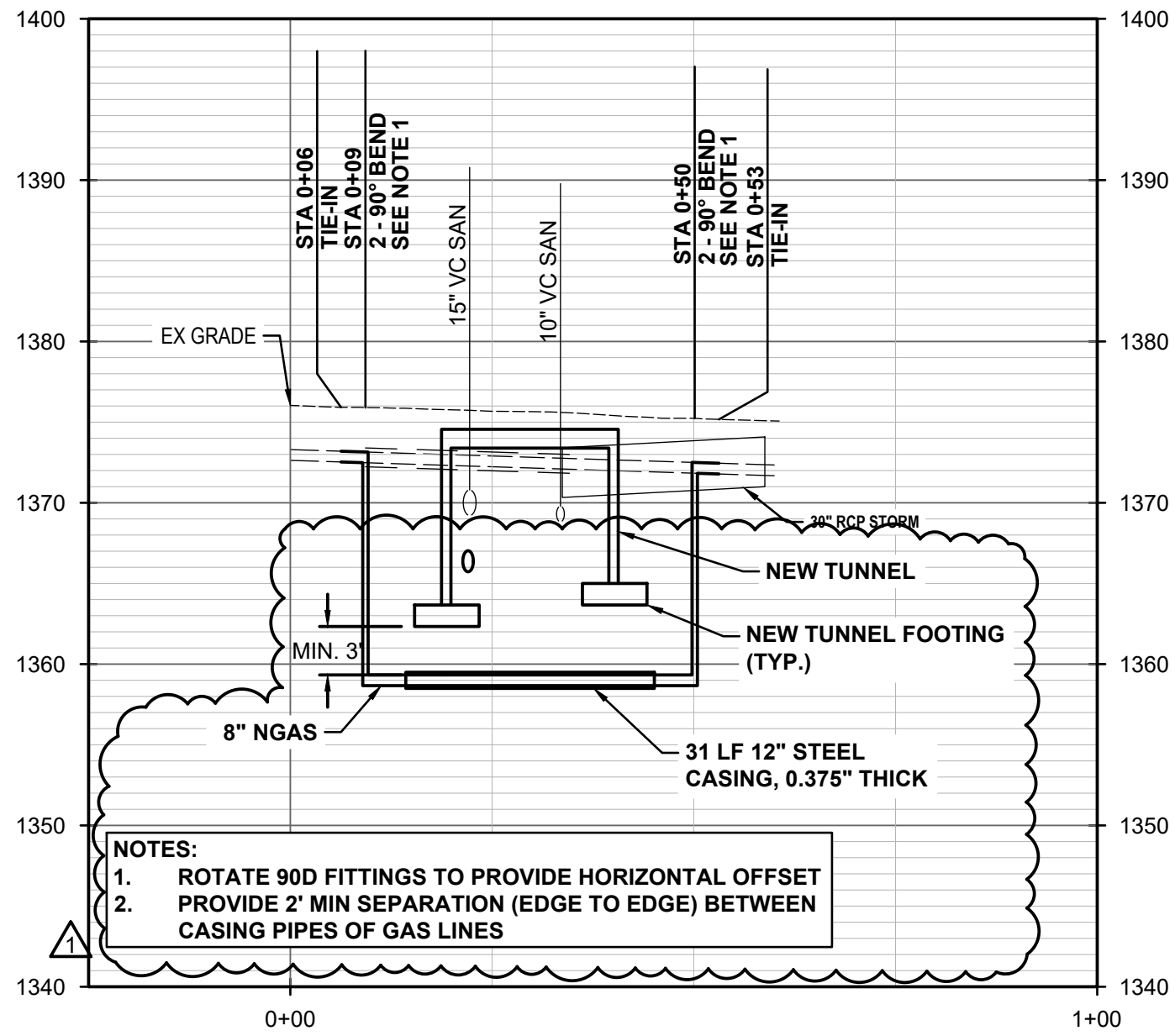
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JOHNSON ST SURFACE IMPROVEMENTS

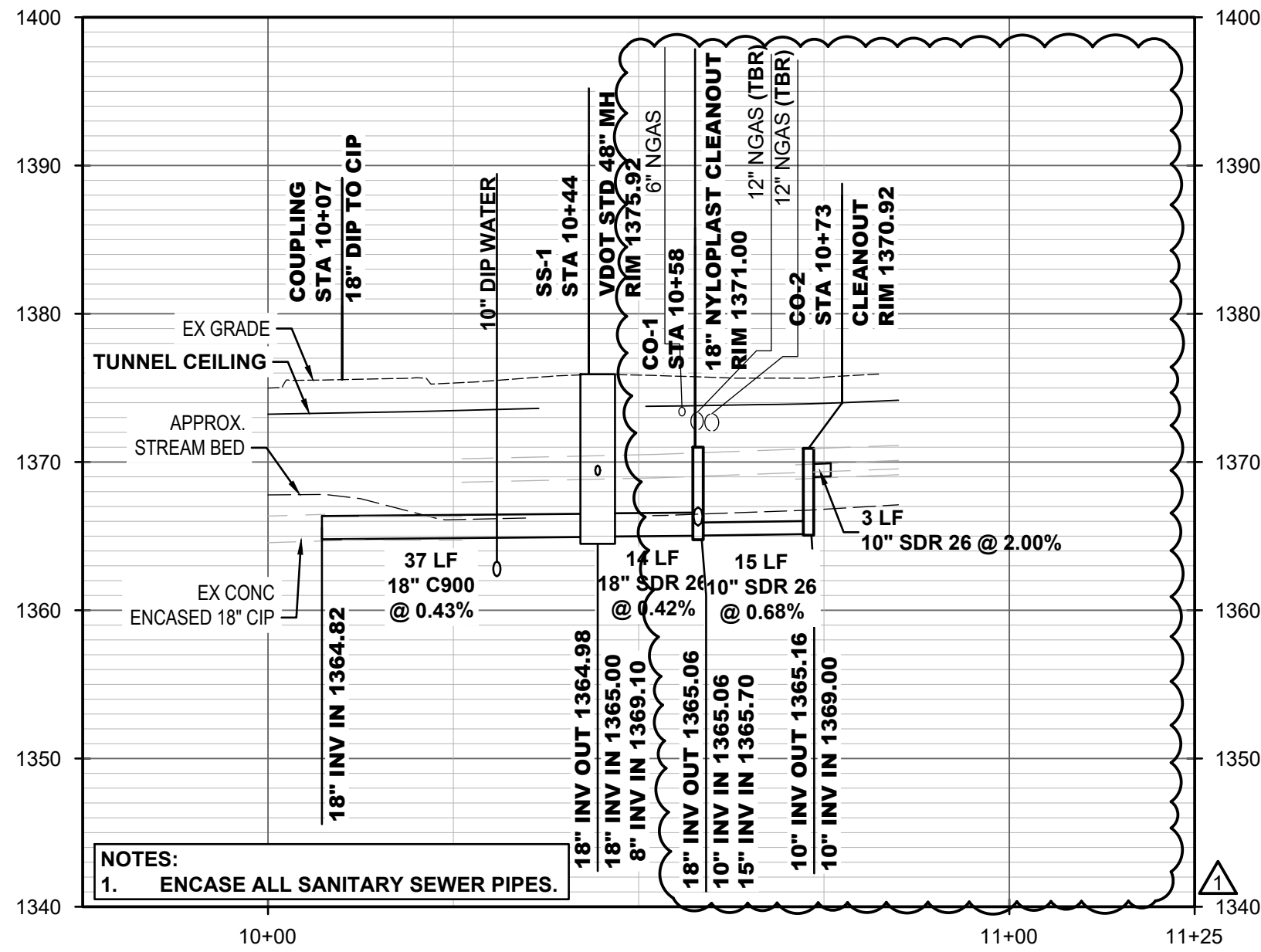
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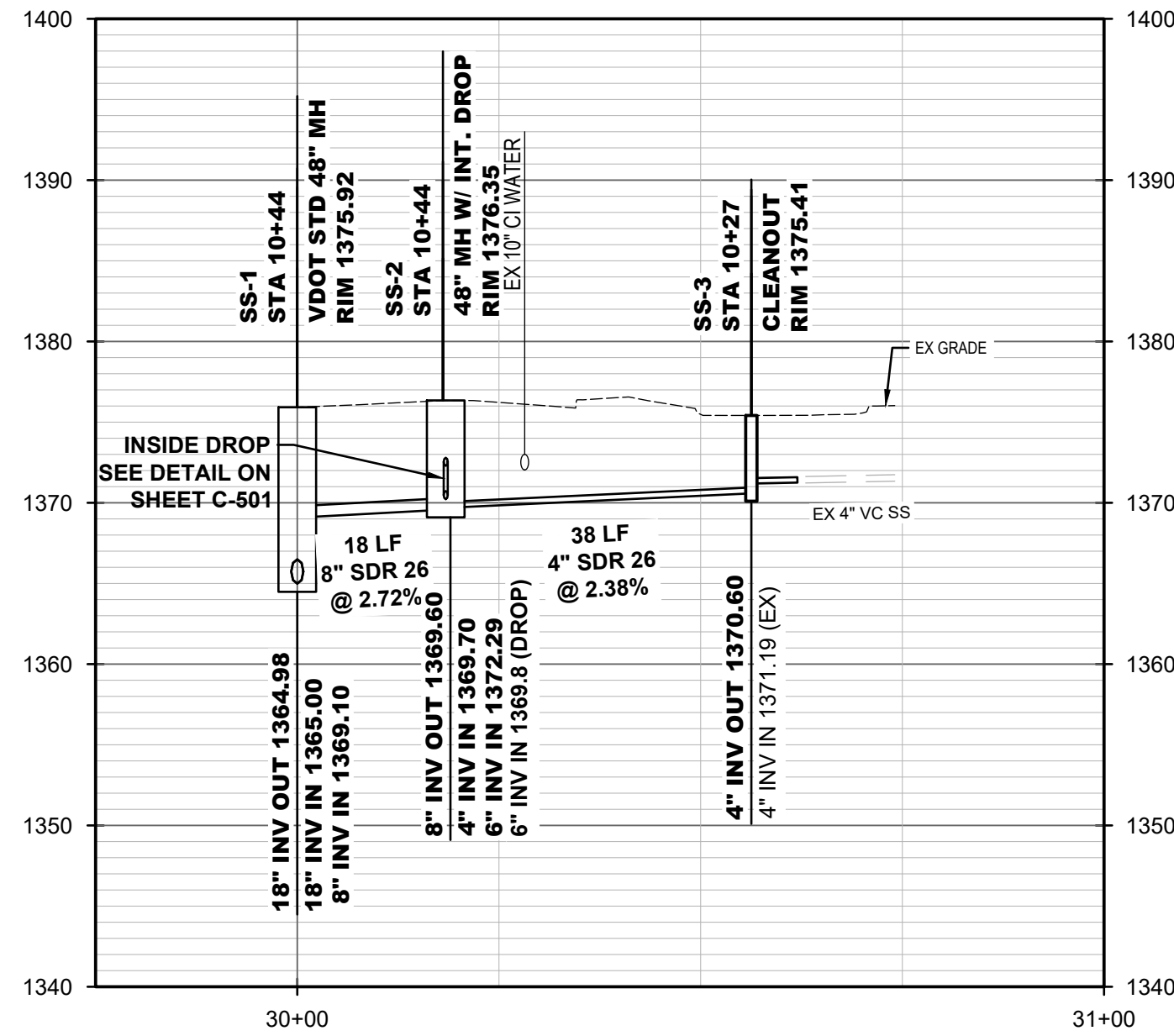
E
D
C
B
A



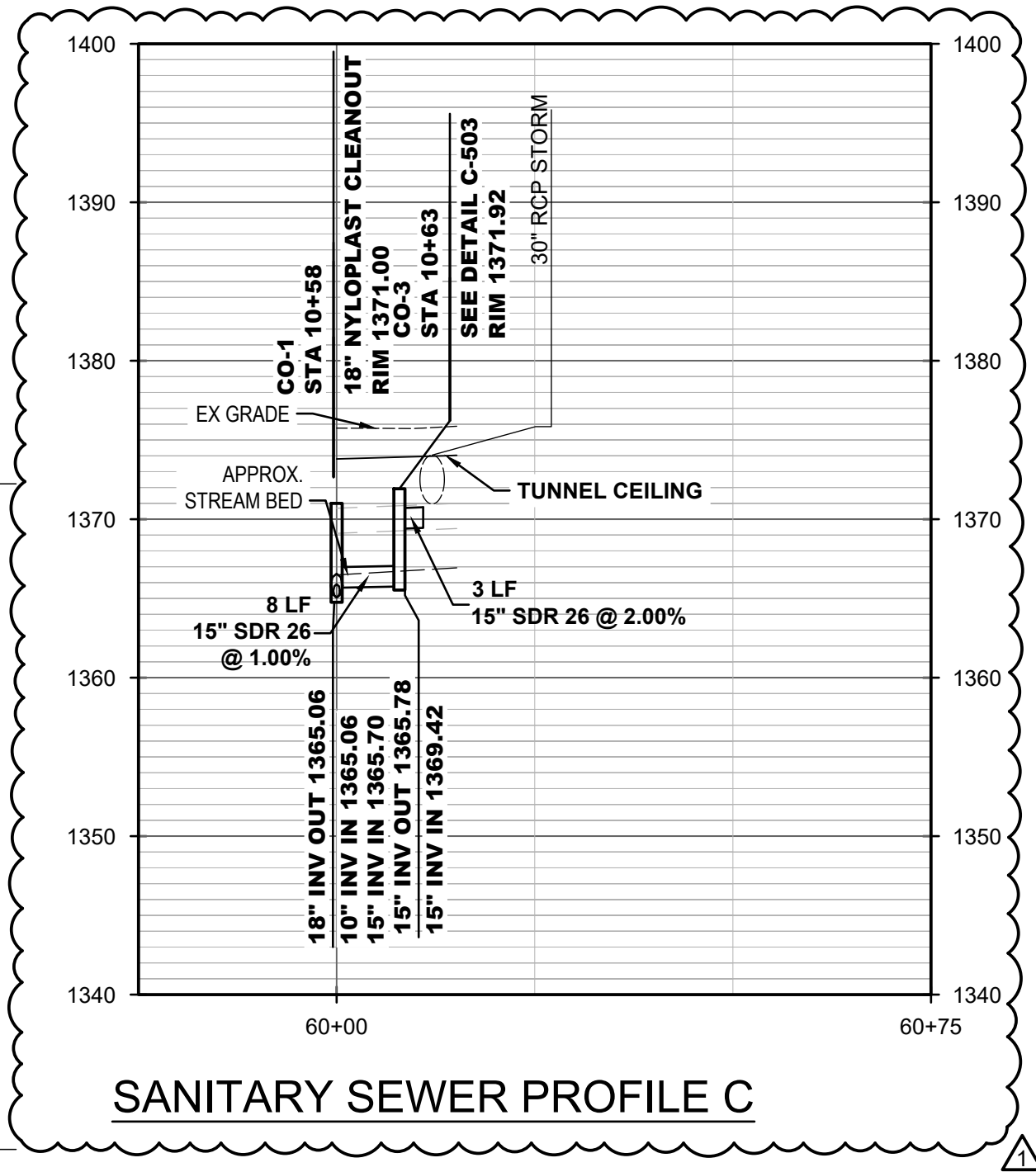
GAS RELOCATION PROFILE



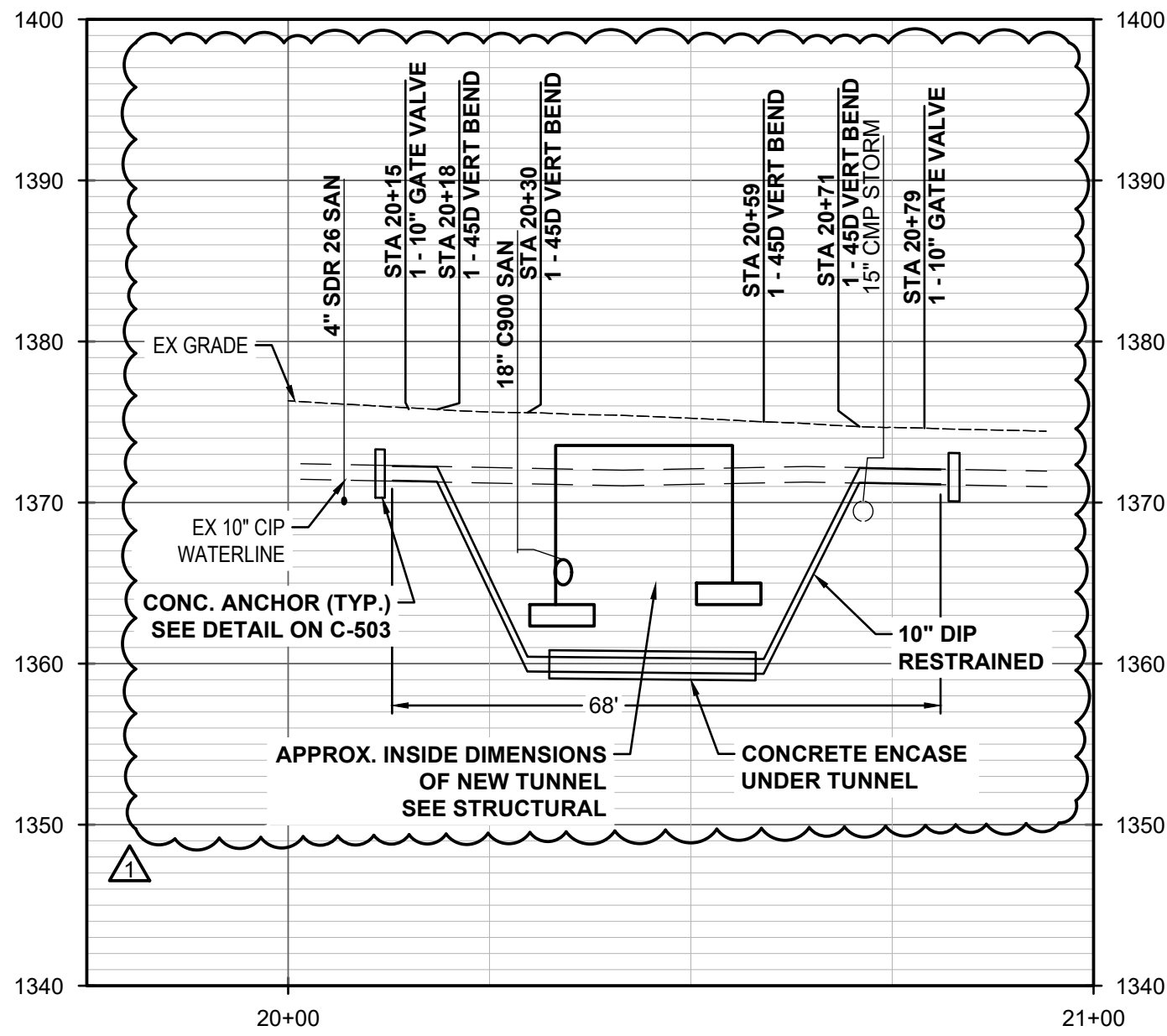
SANITARY SEWER PROFILE A



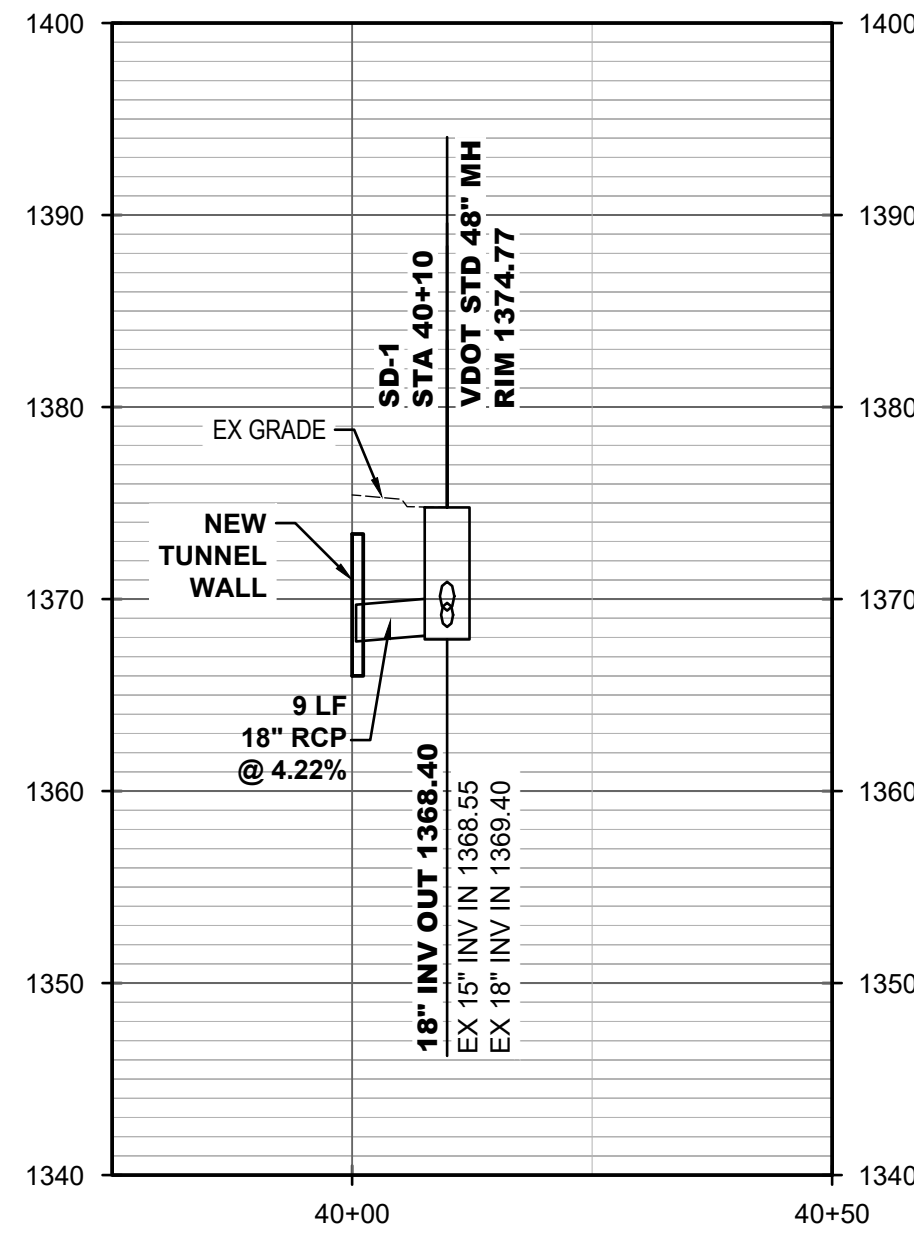
SANITARY SEWER PROFILE B



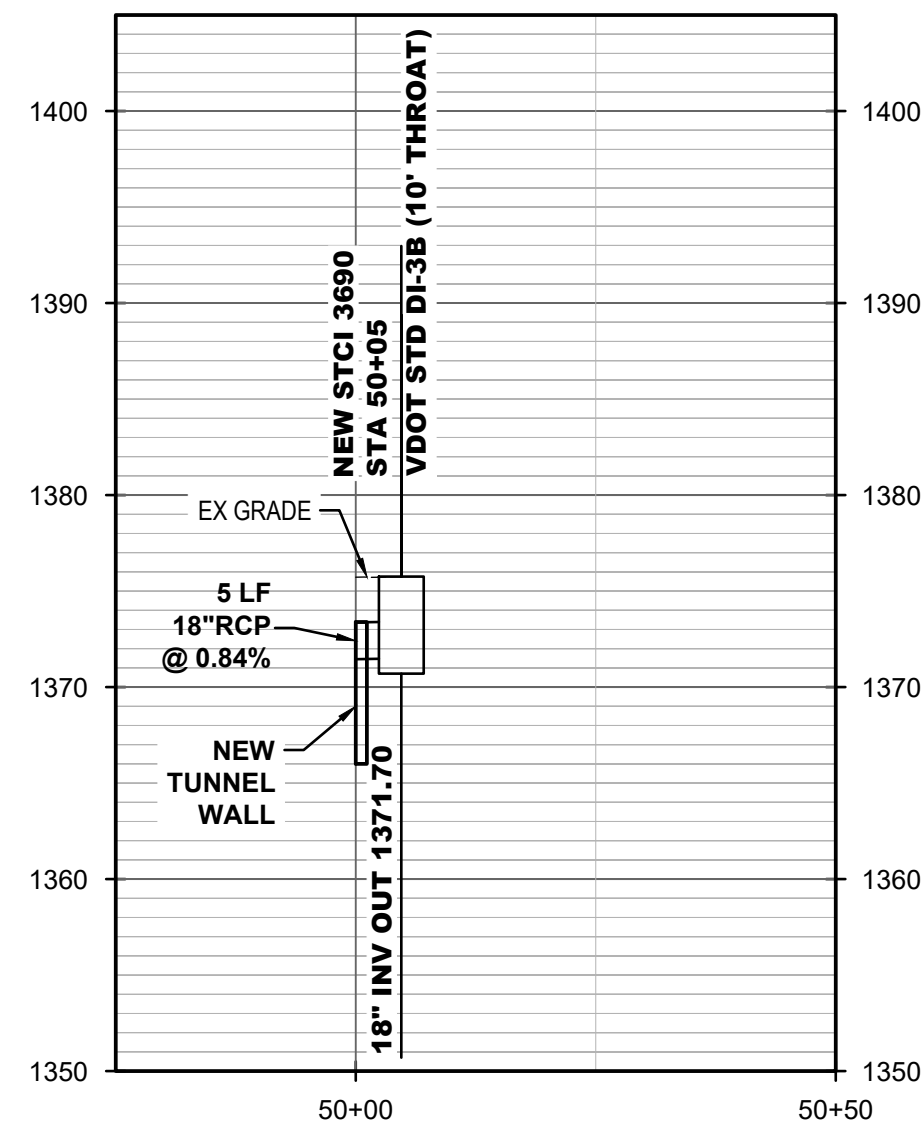
SANITARY SEWER PROFILE C



WATER LINE PROFILE- JOHNSON STREET

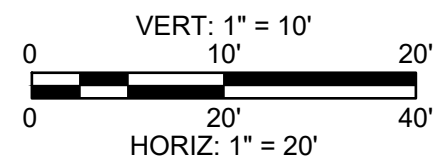


STORM SEWER PROFILE A



STORM SEWER PROFILE B

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JOHNSON, BYERS, AND NEW
STREET TUNNEL REPAIRS

STAUNTON, VIRGINIA

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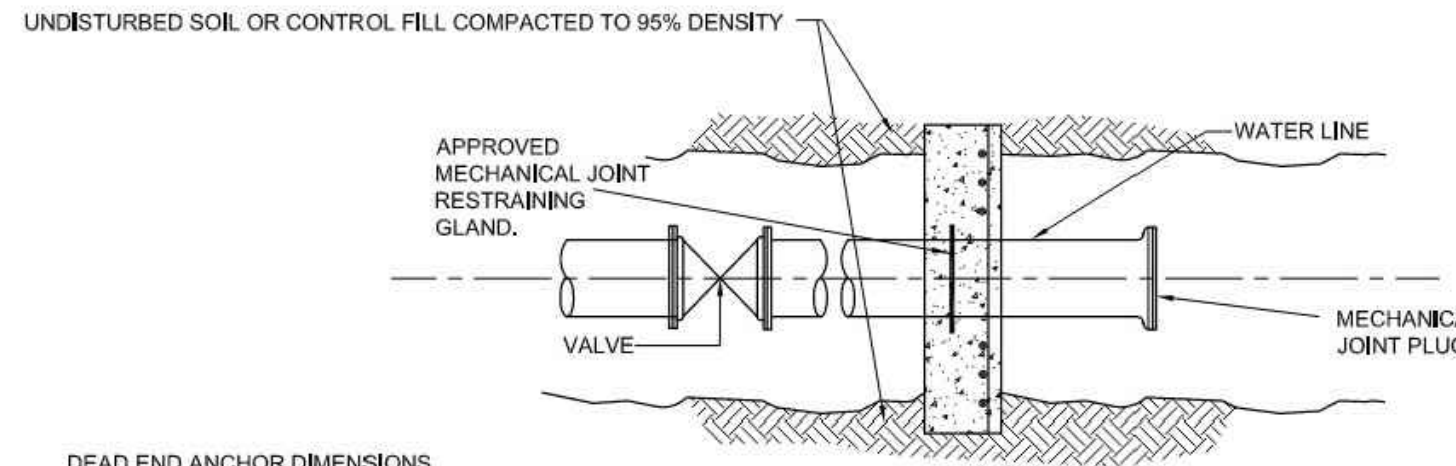
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REV. NO. 1

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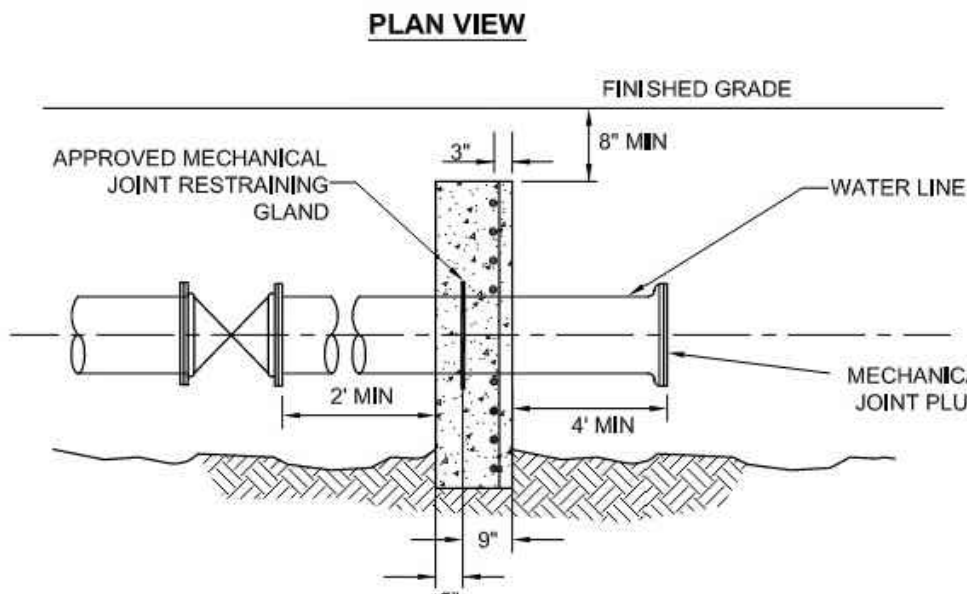
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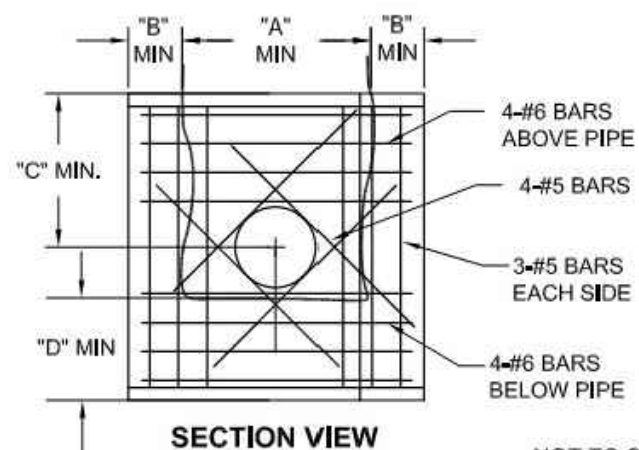
DEAD END ANCHOR DIMENSIONS

LINE	SIZE	"A"	"B"	"C"	"D"
6"		2'-0"	1'-0"	1'-6"	1'-0"
8"		2'-0"	1'-3"	1'-6"	1'-0"
10"		2'-3"	1'-6"	1'-6"	1'-6"
12"		2'-6"	2'-0"	1'-6"	1'-6"
16"		2'-0"	3'-0"	2'-0"	1'-6"
24"		3'-6"	4'-0"	2'-6"	2'-0"

"A" = TRENCH WIDTH
"B" = SIDE DEPTH BEYOND TRENCH
"C" = DEPTH TO CENTER OF PIPE
"D" = DEPTH BEYOND TRENCH BOTTOM



ELEVATION VIEW



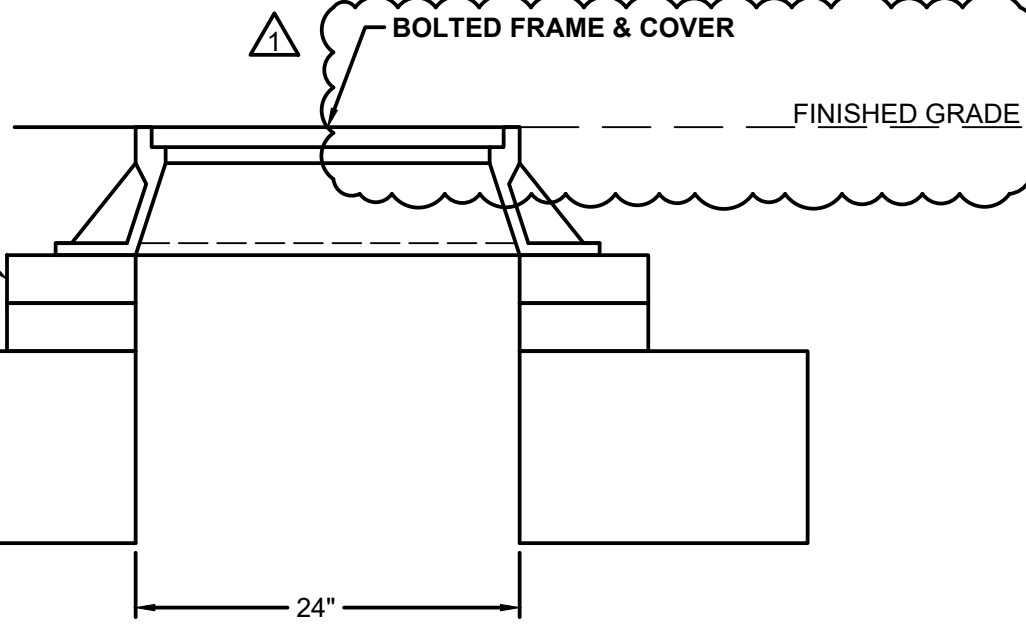
SECTION VIEW

NOT TO SCALE

CONCRETE ANCHOR

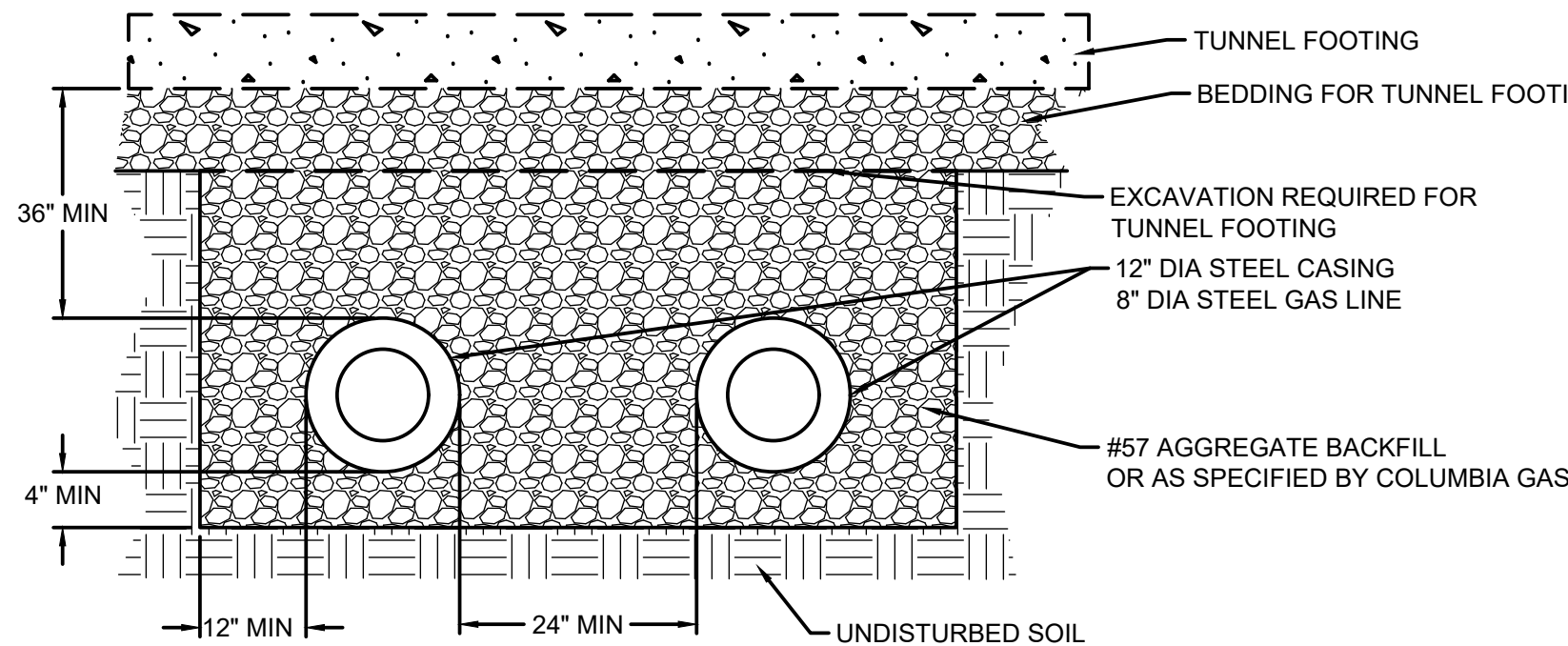
NOT TO SCALE

PROVIDE MH ADJUSTMENT RINGS TO SET RIM FLUSH WITH GRADE



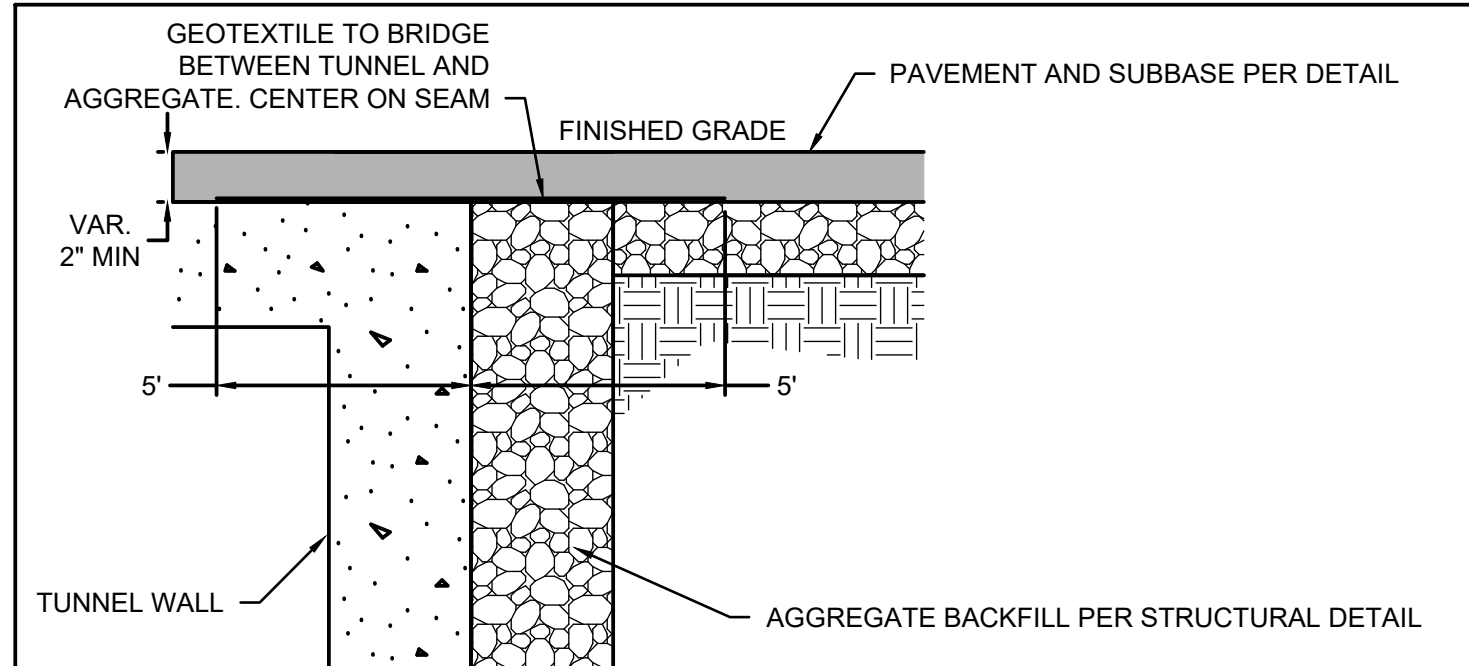
TUNNEL ACCESS MANHOLE

1" = 1'



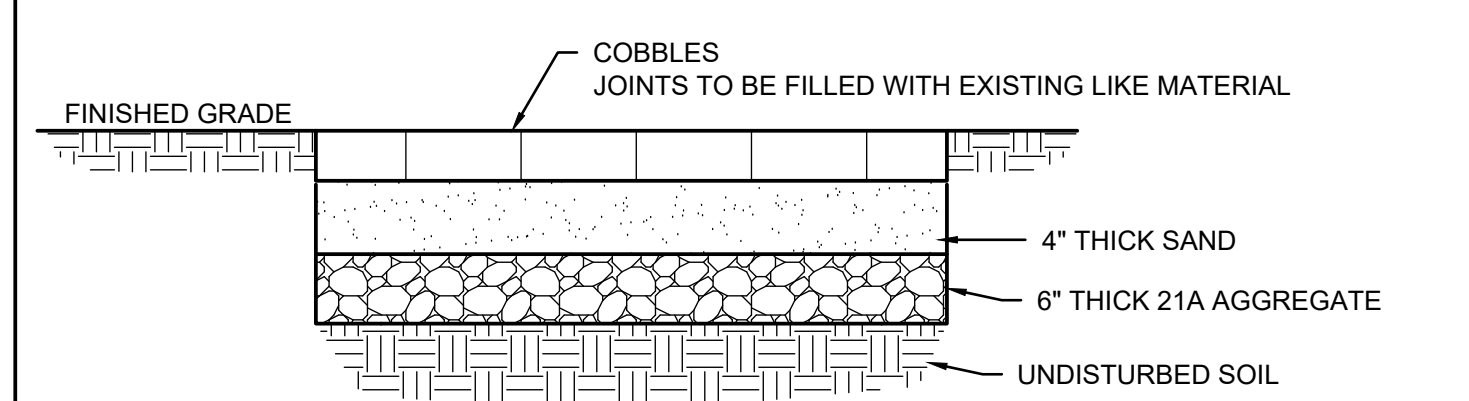
GAS LINE TRENCH

NOT TO SCALE



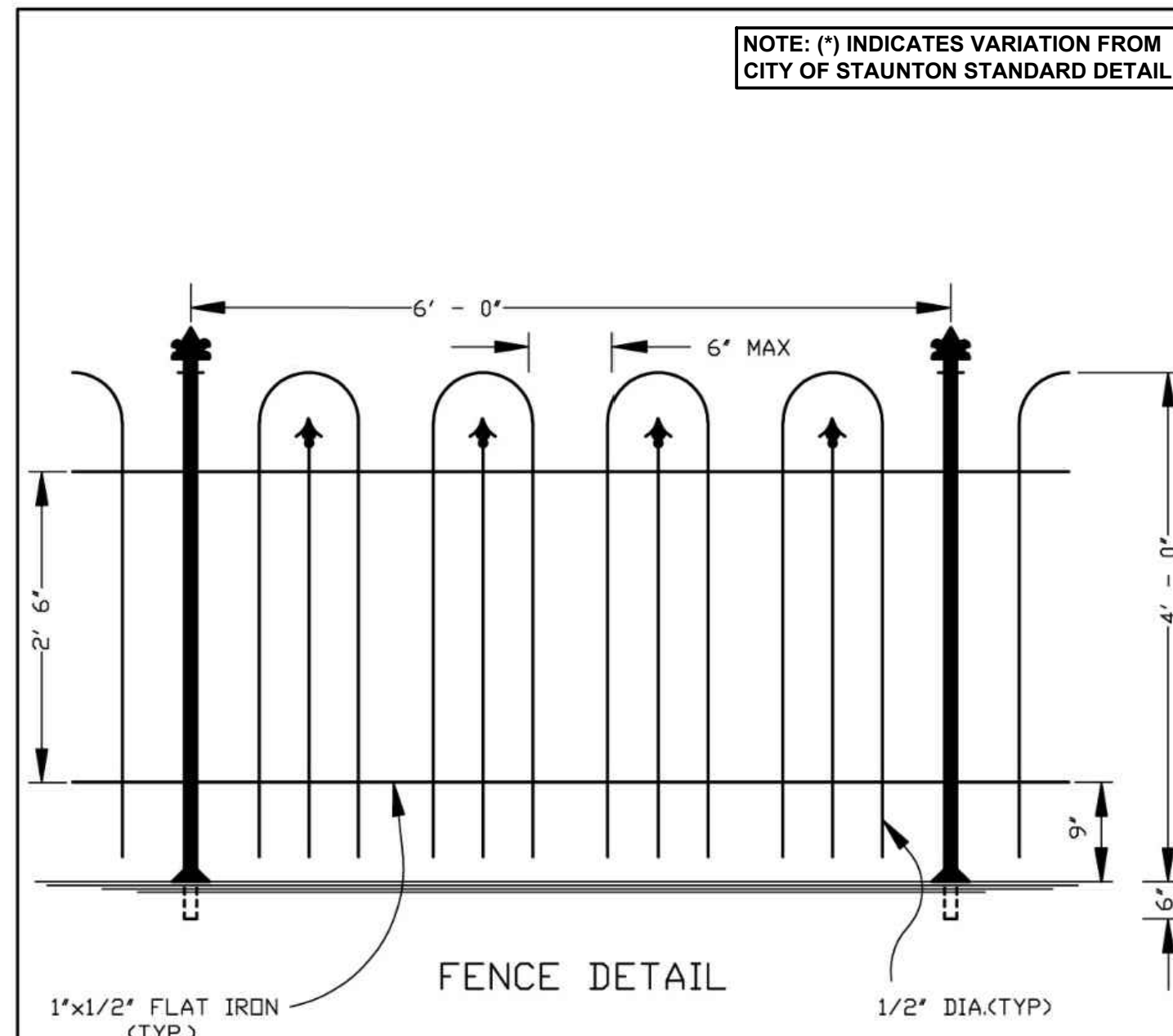
PAVEMENT TRANSITION

SCALE: NOT TO SCALE



COBBLE REPAIR PATCH

SCALE: NOT TO SCALE



FENCE DETAIL

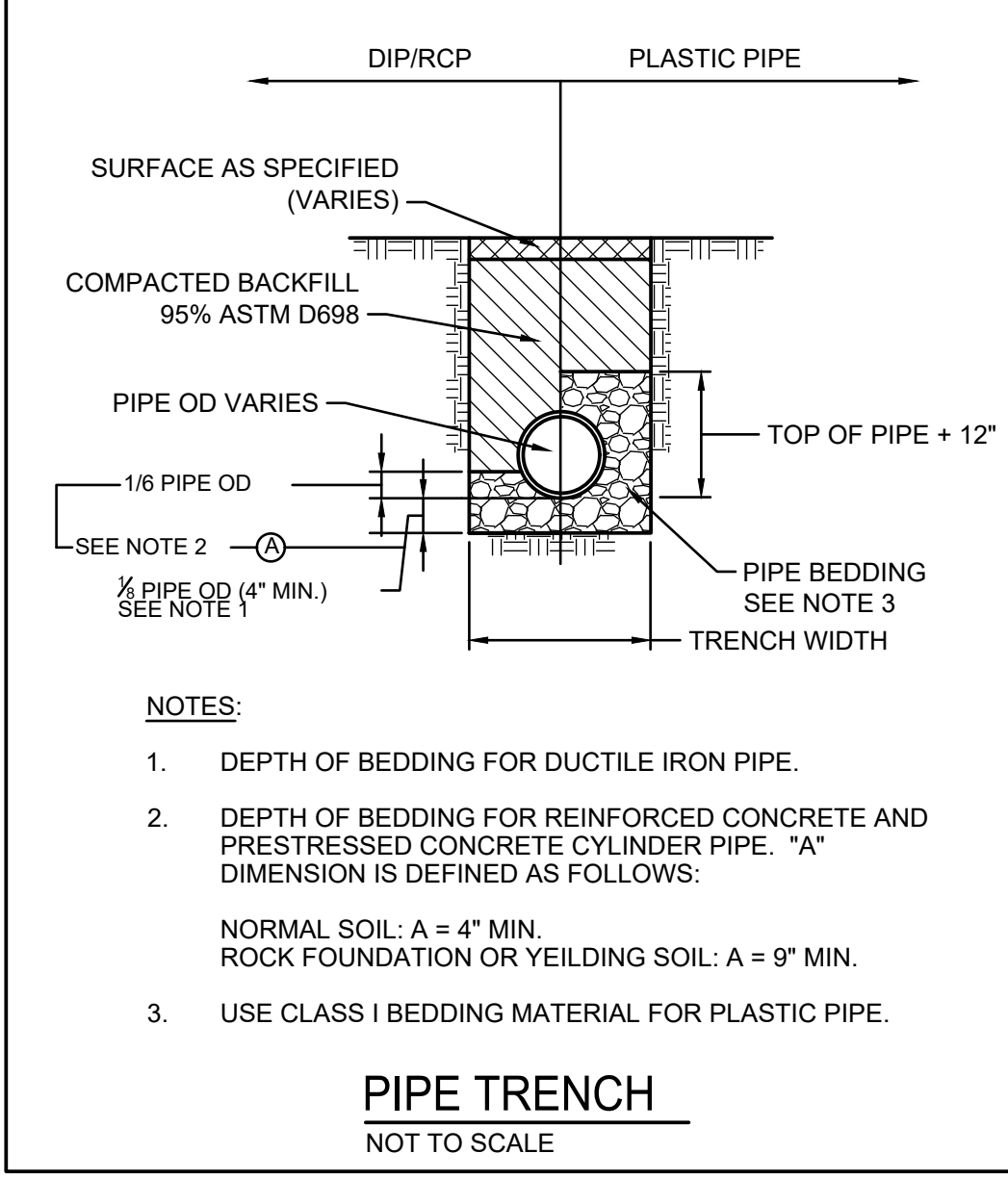
*PROVIDE BOLTED CONNECTION FROM BASE PLATE TO CONCRETE

CITY OF STAUNTON, VA

ORNAMENTAL FENCE

Draw No. M-8

NOTE: (*) INDICATES VARIATION FROM CITY OF STAUNTON STANDARD DETAIL



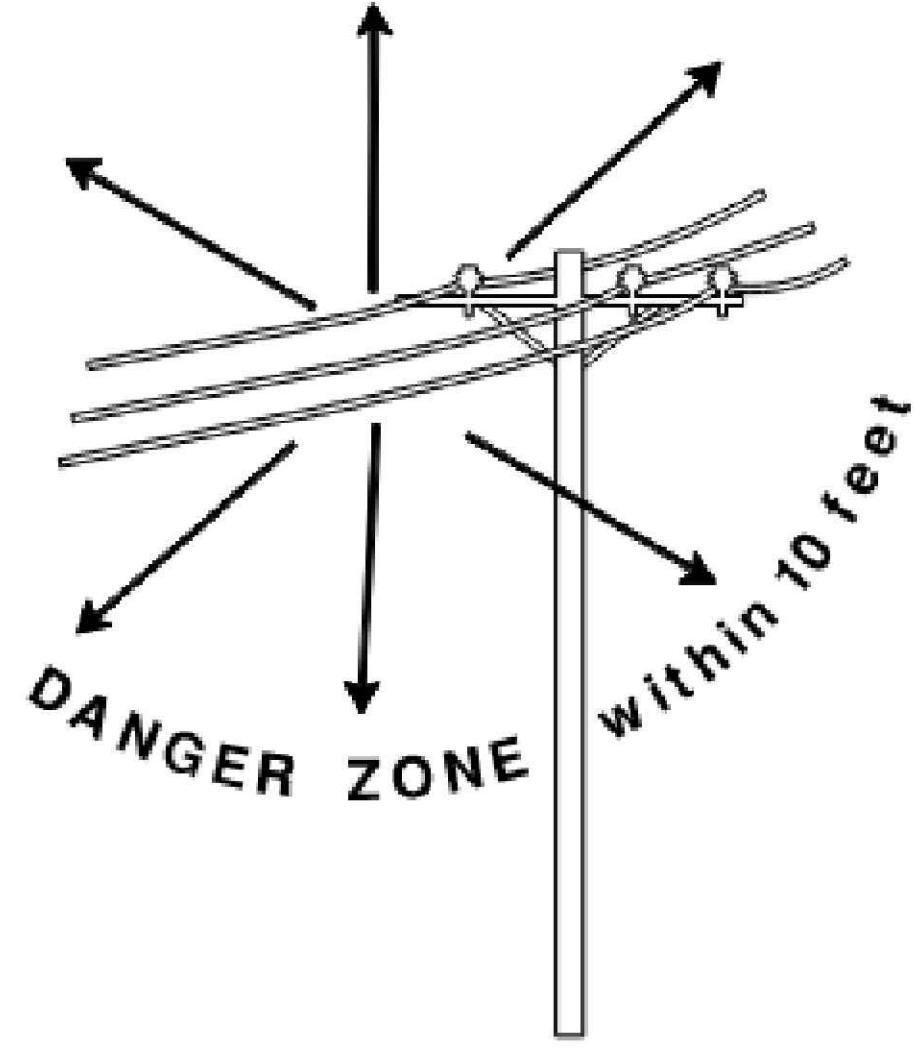
NOTES:

- DEPTH OF BEDDING FOR DUCTILE IRON PIPE.
- DEPTH OF BEDDING FOR REINFORCED CONCRETE AND PRESTRESSED CONCRETE CYLINDER PIPE. "A" DIMENSION IS DEFINED AS FOLLOWS:
NORMAL SOIL: A = 4" MIN.
ROCK FOUNDATION OR YIELDING SOIL: A = 9" MIN.
- USE CLASS I BEDDING MATERIAL FOR PLASTIC PIPE.

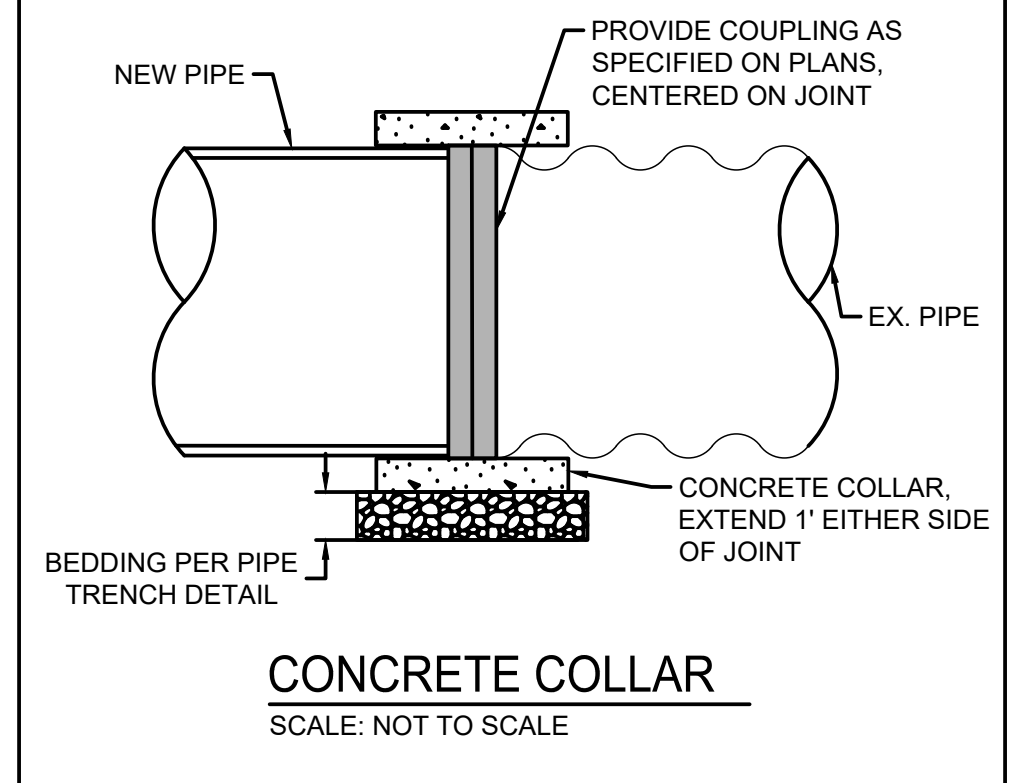
PIPE TRENCH

NOT TO SCALE

No Work Allowed Within 10 Feet of Overhead Power Lines



State law prohibits any work within 10 feet of overhead power lines. Contractor must call utility provider to make safety arrangements before working within the 10 foot safe zone. No work can be started until appropriate safety measures are completed.



CONCRETE COLLAR

SCALE: NOT TO SCALE



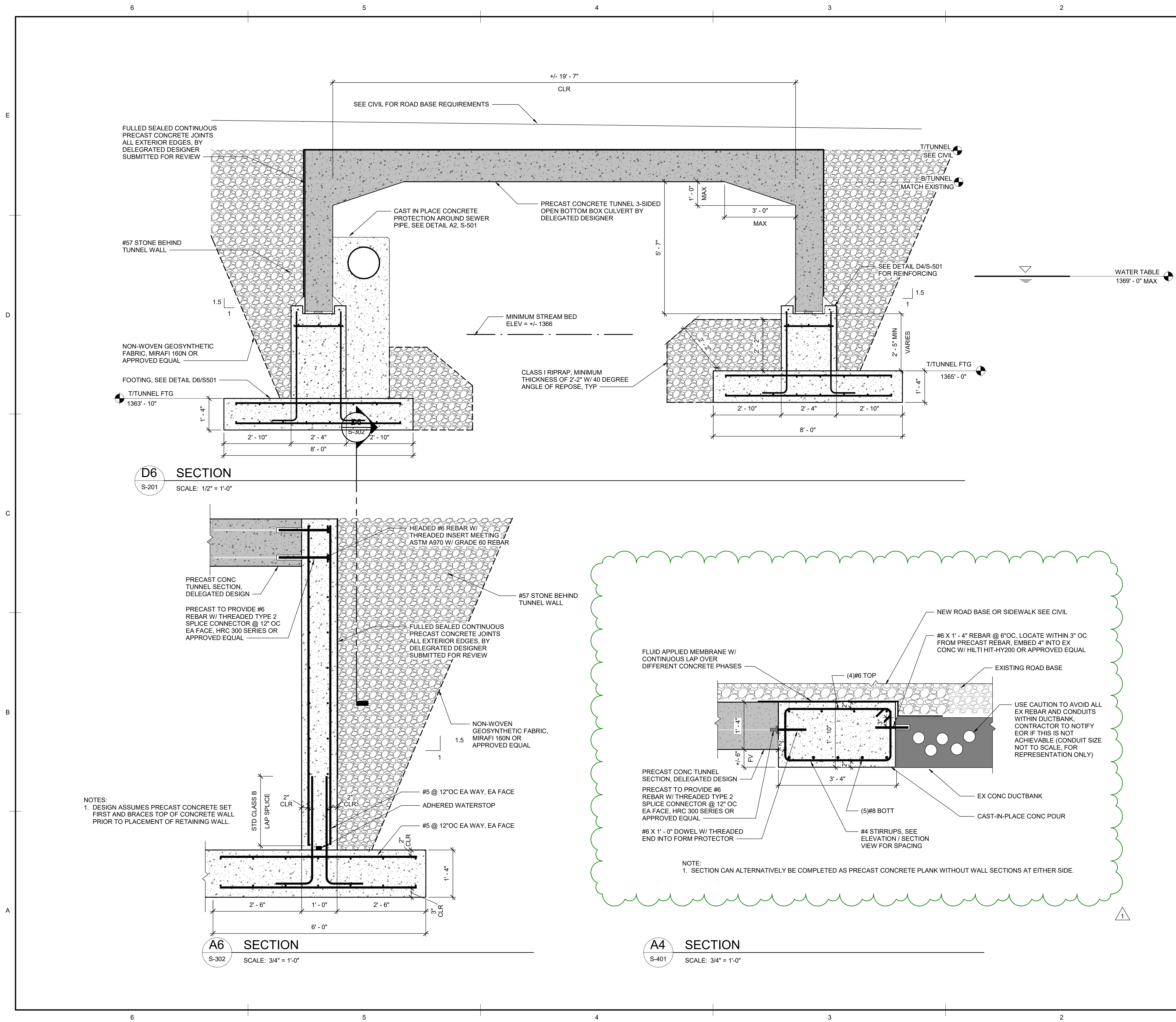
CITY OF STAUNTON
JOHNSON, BYERS, AND NEW
STREET TUNNEL REPAIRS
STAUNTON, VIRGINIA

MARK	DATE	REVISION DESCRIPTION
1	11/07/2025	ADDENDUM 3

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SHEET TITLE

CIVIL DETAILS

SHT. NO. C-502 REV. NO. 1



GENERAL SHEET NOTES

1. ALL ELEVATIONS ARE ACTUAL, REFER TO CIVIL FOR ADDITIONAL INFORMATION.
2. COORDINATE WITH CIVIL SHEETS FOR ADDITIONAL SCOPE OF WORK.
3. LOCALIZED DEMOLITION AND REPAIR AT JOHNSON STREET CROSSING.
4. SEE LOADING ON S-601.
5. TUNNEL DESIGN TO ASSUME FULLY SATURATED SOILS BEHIND TUNNEL.

MATERIAL LEGEND - NEW WORK

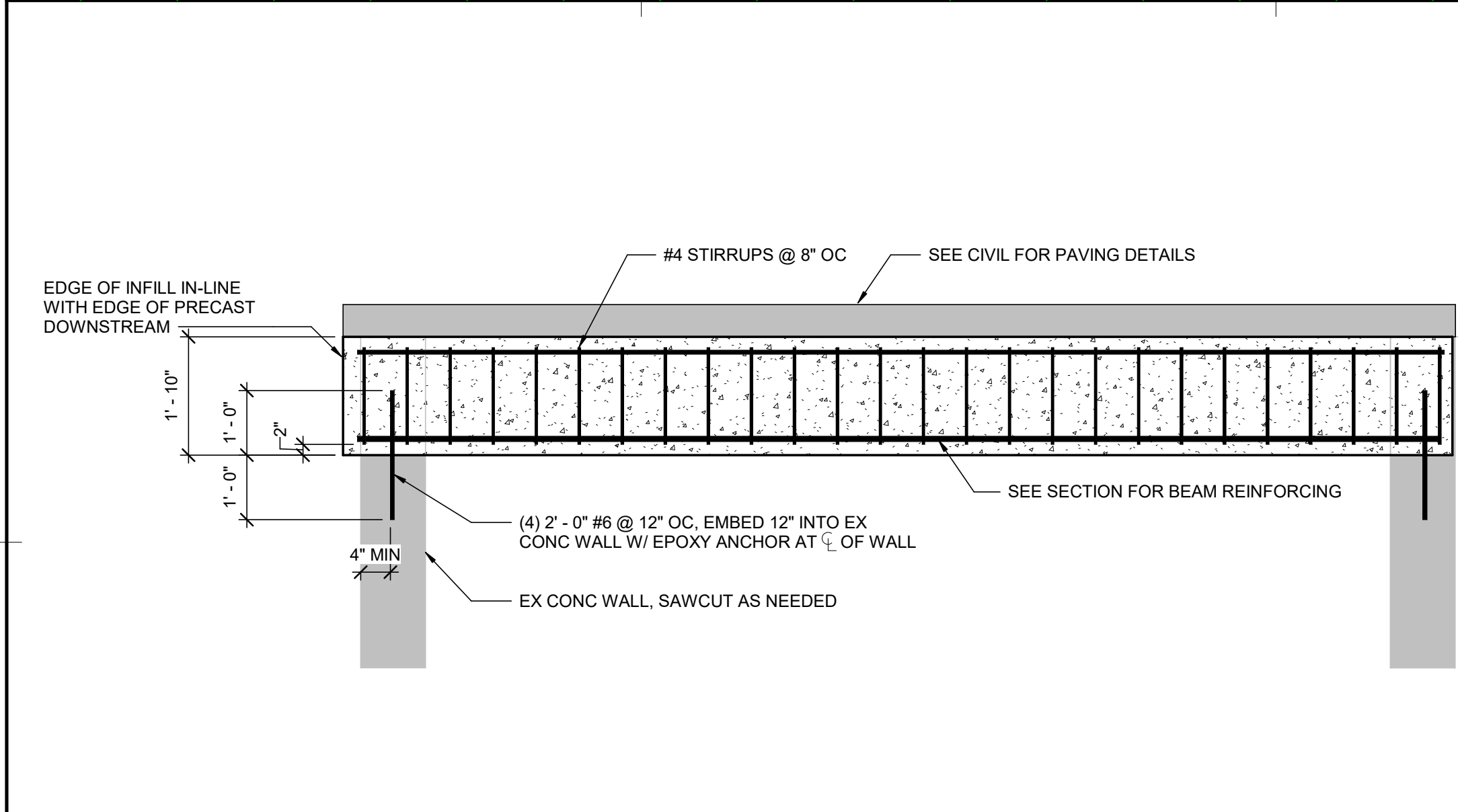
- EXISTING BUILDINGS ABOVE GRADE
- EXISTING TUNNEL WALL
- CAST-IN-PLACE CONCRETE WALL
- PRE-CAST CONCRETE WALL
- DENOTES CHANGE IN TUNNEL MATERIAL
- DENOTES CROSS STREET ABOVE GRADE
- LAYOUT POINT, SEE CIVIL
- DENOTES STREAM ELEVATION
- DENOTES EXISTING UTILITIES
- DELEGATED TRAFFIC VDOT RATED GUARDRAIL, SEE NOTE SECTION G/S-002 AND SHEET S-502



CITY OF STAUNTON JOHNSON, BYERS, AND NEW STREET TUNNEL REPAIRS

STAUNTON, VIRGINIA

REVISION DESCRIPTION	
1	11/07/2025 ADDENDUM 3
MRK	DATE
COMM NO: 240197	
DATE: 10/06/2025	
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CHECK: DA	
SHEET TITLE	
SECTIONS - JOHNSON ST CROSSING	
SHT. NO. S-301	REV. NO. 1



D6
S-201

SECTION
NOT TO SCALE

GENERAL SHEET NOTES

1. ALL ELEVATIONS ARE ACTUAL, REFER TO CIVIL FOR ADDITIONAL INFORMATION.
2. COORDINATE WITH CIVIL SHEETS FOR ADDITIONAL SCOPE OF WORK.
3. LOCALIZED DEMOLITION AND REPAIR AT JOHNSON STREET CROSSING.
4. SEE LOADING ON S-601.
5. TUNNEL DESIGN TO ASSUME FULLY SATURATED SOILS BEHIND TUNNEL.

MATERIAL LEGEND - NEW WORK

- EXISTING BUILDINGS ABOVE GRADE
- EXISTING TUNNEL WALL
- CAST-IN-PLACE CONCRETE WALL
- PRE-CAST CONCRETE WALL
- DENOTES CHANGE IN TUNNEL MATERIAL
- DENOTES CROSS STREET ABOVE GRADE
- LAYOUT POINT, SEE CIVIL
- DENOTES STREAM ELEVATION
- DENOTES EXISTING UTILITIES
- DELEGATED TRAFFIC VDOT RATED GUARDRAIL, SEE NOTE SECTION G/S-002 AND SHEET S-502



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TUNNEL REPAIRS

STAUNTON, VIRGINIA

REVISION DESCRIPTION	
1	11/07/2025 ADDENDUM 3
MRK	DATE

COMM NO: 240197	
DATE: 11/07/2025	
DRAWN: CWR	DESIGN: NKT
CHECK: DA	

SHEET TITLE

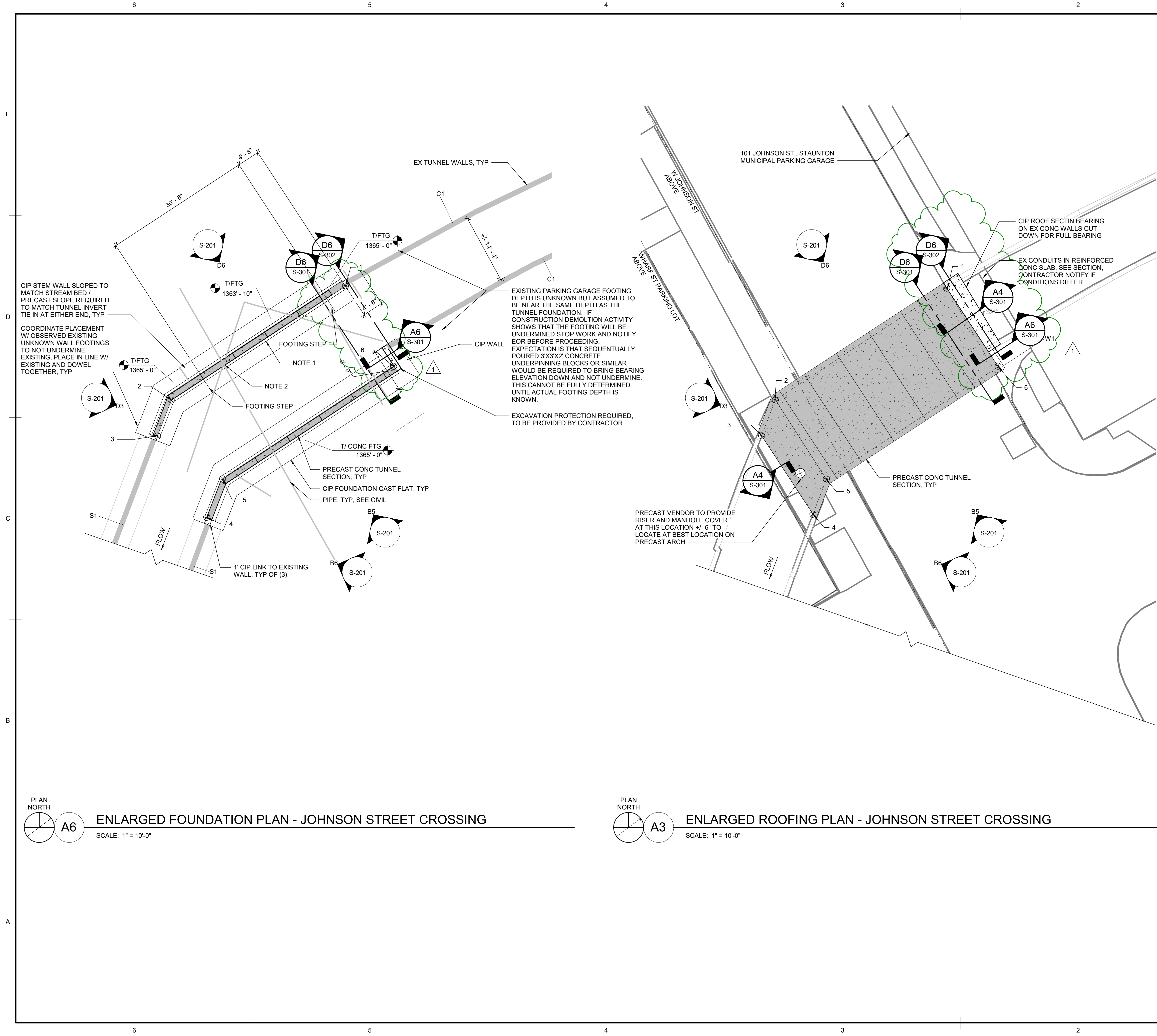
SECTIONS - JOHNSON ST CROSSING

SHT. NO. S-302	REV. NO. 1
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GENERAL SHEET NOTES

1. ALL ELEVATIONS ARE BASED ON ACTUAL ELEVATIONS. REFER TO CIVIL FOR ADDITIONAL INFORMATION.
2. COORDINATE WITH CIVIL SHEETS FOR ADDITIONAL SCOPE OF WORK AS WELL AS COORDINATES FOR EXTENTS AND LOCATION OF CONSTRUCTION.
3. SEE CIVIL SHEET C-114 FOR VARIOUS UTILITIES LOCATED BELOW OR THROUGH TUNNEL WALLS. SEE S-200s FOR GENERAL SCOPE BUT REFER TO CIVIL FOR ACTUAL LOCATIONS.
4. SEE S-601 FOR LOADING INFORMATION
5. SEE CIVIL SHEETS C-113 FOR NORTHING AND EASTING LOCATIONS TO COORDINATE DEMOLITION AND CONCRETE PLACEMENT ACTIVITIES.

FOUNDATION PLAN NOTES

1. PROVIDE OPENING IN PRECAST TO SET AND GROUT AROUND PIPE, COORD W/ CIVIL.
2. PROVIDE KNOCKOUT IN PRECAST FOR EXISTING UTILITY. COORDINATE LOCATION IN THE FIELD. INSTALL UTILITY AFTER PLACEMENT OF PRECAST.
3. COORDINATE TUNNEL START AND STOP POINTS AS WELL AS SLOPE WITH CIVIL TO MAINTAIN OR EXCEED EXISTING CONDITIONS OPENING.
4. TIE WALL FTG TO EXISTING USING (3) #7 x 2'-8" REBAR EXTENDING OUT OF CIP FOOTING AND EMBED 8" INTO EX FOOTING W/ HILTI HIT-HY 200

WALL SCHEDULE

TYPE	DESCRIPTION
C1	EXISTING CIP WALL, 1-WAY ROOF SPANS WALLS
C2	EXISTING CIP WALL, 1-WAY ROOF SPANS CONC BEAMS
C3	EXISTING CIP WALL, 1-WAY ROOF SPANS STL BEAMS
C4	EXISTING CIP WALL, CONCRETE TRUSS SYSTEM
C5	EXISTING CIP WALL, OPEN CHANNEL
S1	EXISTING STACK STONE ARCH
S2	EXISTING STACK STONE WALLS, 1-WAY ROOF TO CONC BEAMS
S3	EXISTING STACK STONE WALLS, 1-WAY ROOF TO STL BEAMS
S4	EXISTING STACK STONE WALLS, 1-WAY BRICK ARCH ROOF SPANS STL
S5	EXISTING STACK STONE WALLS, OPEN CHANNEL
W1	12" THICK CIP WALL, SEE SECTION A6/S-301 FOR REINFORCING
W2	14" THICK CIP WALL, SEE SECTION A4/S-310 FOR REINFORCING
W3	14" THICK CIP ABOVE GRADE TERMINAL WALL, SEE DETAILS ON S-502

MATERIAL LEGEND - NEW WORK

	EXISTING BUILDINGS ABOVE GRADE
	EXISTING TUNNEL WALL
	CAST-IN-PLACE CONCRETE WALL
	PRE-CAST CONCRETE WALL
	DENOTES CHANGE IN TUNNEL MATERIAL
	DENOTES CROSS STREET ABOVE GRADE
	LAYOUT POINT, SEE CIVIL
	DENOTES STREAM ELEVATION
	DENOTES EXISTING UTILITIES
	DELEGATED TRAFFIC VDOT RATED GUARDRAIL, SEE NOTE SECTION G/S-002 AND SHEET S-502



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CITY OF STAUNTON
JOHNSON, BYERS, AND NEW STREET
TUNNEL REPAIRS

STAUNTON, VIRGINIA

REV	DATE	DESCRIPTION
1	11/07/2025	ADDENDUM 3

COMM NO:		240197	
DATE:		10/06/2025	
DRAWN:	CWR	DESIGN:	NKT
CHECK:		DA	
SHEET TITLE			

SHEET TITLE
ENLARGED PLAN - JOHNSON STREET CROSSING

SHT. NO.	REV. NO.
S-401	1

INSTRUCTIONS TO BIDDERS FOR CONSTRUCTION CONTRACT

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Installation Instructions

SHUVLNOSE® Adaptors

Designed to establish a reliable connection between pipes with similar inside diameters and widely different outside diameters.



SNA

SNA Series

- NOTE:**
- ▶ Coupling should not be disassembled
 - ▶ Do not use an impact gun. Proper tightening requires slow speeds
 - ▶ Tension clamp is lubricated to prevent galling during installation
 - ▶ For non-pressure, gravity flow sewer applications only

Installation of 6" - 18" ShuvlNose® Adaptors

1



Apply lubricant to the inner surface contact area of the larger pipe.

2



Ensuring the wedge is in line with the top of the pipe, insert the ShuvlNose® Adaptor gasket into the larger pipe up to the pipe stop.

3



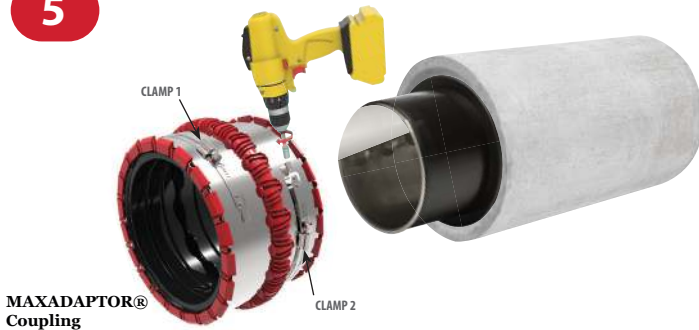
Using a hammer and 2 x 4 wood, pound in the wedge until the collar is fully expanded.

4



Using a metal cutting tool, cut the wedge flush with the gasket and steel collar. Clean the cylinder, ensuring no steel particles remain inside.

5



MAXADAPTOR®
Coupling

Tighten both sides of the MAXADAPTOR® Coupling (Clamp 1 & Clamp 2), alternating back and forth.

6



When the coupling ID's are closely matched to the pipe/adaptor OD's, install the coupling onto the ShuvlNose® Adaptor. Take up all slack in coupling with a cordless drill or socket wrench.

Installation Instructions

SHUVLNOSE® Adaptors

Designed to establish a reliable connection between pipes with similar inside diameters and widely different outside diameters.

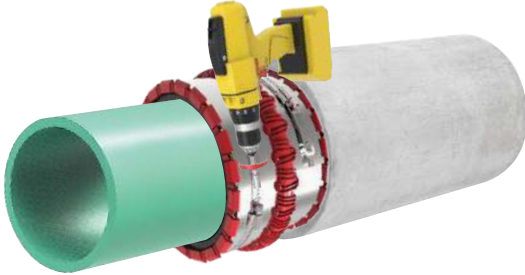


SNA

SNA Series

*Installation of 6" - 18"
ShuvlNose® Adaptors*

7



Insert the smaller pipe into the MAXADAPTOR® Coupling and take up all slack in coupling with a cordless drill or socket wrench. Complete the installation by tightening the tension clamp, alternating back and forth, to 80 in/lbs. minimum torque.

Visit **MAXADAPTOR** - YouTube channel to see the ShuvlNose® Adaptor installation video.

Submittal

ShuvlNose® Adaptors - Submittal

Performance Sewer Repair Adaptors.

SHUVLNOSE® Adaptors

Designed to establish a reliable connection between pipes with similar inside diameters and widely different outside diameters.



PROJECT _____

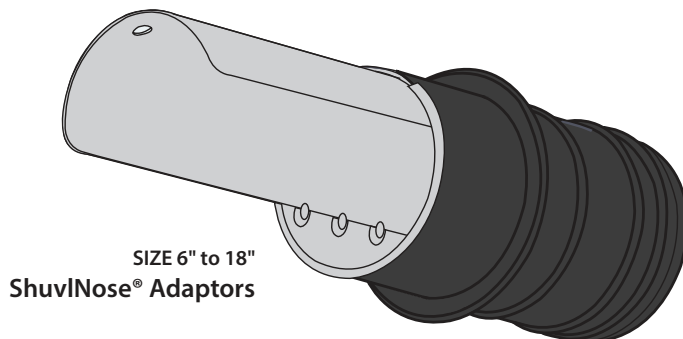
ENGINEER _____

CONTRACTOR _____

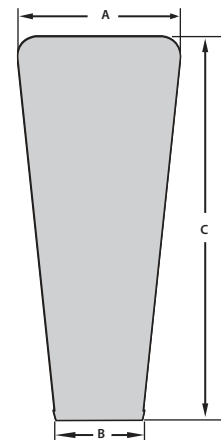
MATERIALS

Expanding Collar
Insertion Wedge
Sealing Gasket

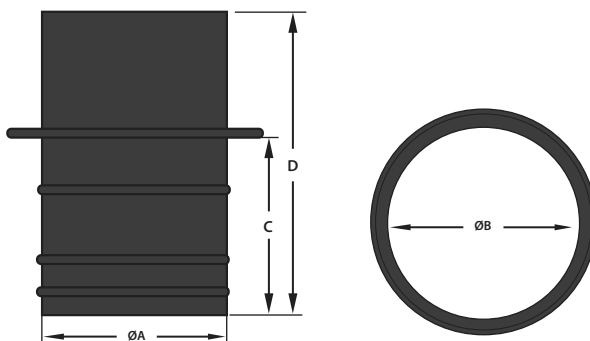
AISI 316 series stainless steel
AISI 316 series stainless steel
EPDM rubber



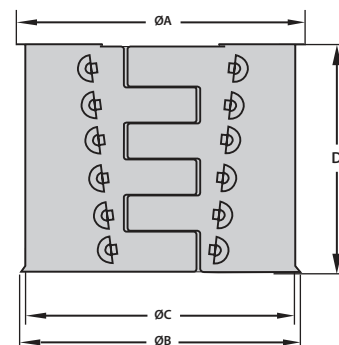
INSERTION WEDGE DETAILS



SEALING GASKET DETAILS



EXPANDING COLLAR DETAILS



U.S. Patent No. D846,085 S

SHUVLNOSE® REFERENCE	SIZE	WEDGE			COLLAR				GASKET			
		A	B	C	ØA	ØB	ØC	D	ØA	ØB	C	D
SNA 6	6"	8.06"	4.52"	15.75"	5.67"	5.59"	5.28"	8.27"	5.50"	5.28"	4.53"	8.07"
SNA 8	8"	8.06"	4.52"	17.91"	7.52"	7.36"	7.05"	8.27"	7.50"	7.05"	4.53"	8.07"
SNA 10	10"	8.26"	4.40"	19.49"	9.45"	9.29"	8.98"	9.84"	9.50"	8.98"	5.87"	9.65"
SNA 12	12"	8.26"	4.40"	19.49"	11.42"	11.26"	10.94"	9.84"	11.50"	10.94"	5.87"	9.65"
SNA 15	15"	7.88"	4.34"	19.40"	14.70"	14.55"	14.18"	9.88"	14.60"	14.18"	5.63"	9.75"
SNA 18	18"	8.06"	4.34"	19.40"	17.68"	17.65"	17.18"	9.88"	17.60"	17.18"	5.63"	9.75"

TEST	GASKET PHYSICAL TESTS (ASTM C1173)	ASTM C1173
Tensile Strength	1000 PSI minimum	D412
Elongation	200% minimum	D412
Durometer (Shore A)	50 minimum 75 maximum	D2240
Heat Aging	75% of original tensile strength 65% of original elongation All determined after oven aging at 70°C for 70 hours	D573
Ozone Cracking	No visible cracking at 2X magnification of the gasket after 24 hours exposure in 0.5 PPHM ozone concentrations at 40°C. Testing and inspection to be on gasket which is loop-mounted to give approximately 20% elongation of outer surface.	D1149
Water Absorption	20% maximum by weight after 7 days at 70°F	D471
Chemical Resistance	No weight loss 48 hours at 74°F	D543

ShuvlNose® Adaptors are designed to provide a reliable connection between pipes with similar inside diameters and widely different outside diameters of gravity flow, non-pressure sewer/drainage pipes. Adaptors consists of corrosion resistant AISI 316 series stainless steel expanding collar and insertion wedge over an injection molded EPDM rubber gasket. Adaptors are available in sizes 6" through 18".

Corrosion Resistant - AISI 316 series stainless steel components provide highly effective corrosion resistance in a variety of environments; such as marine applications, poorly aerated or moist soils, contaminated ground conditions (particularly industrial fill sites) and where the ground water contains chloride, sulfates or bicarbonates.

Withstands Tension and Compression - EPDM rubbers permit a substantial degree of distortion without change in basic physical resistance. Molded rubber gasket is strong, durable and resilient to ultraviolet rays, ozone, fungus growth, natural erosive properties of soil and normal sewer gases.

Joint Movement Restraint - The combination of the ShuvlNose® Adaptor and MAXADAPTOR® Coupling provides for superior load bearing control between the coupling and pipe surface. The coupling's rugged construction provides excellent sealing properties, and the stainless steel collar offers excellent resistance to shear forces and helps with alignment, while maintaining flexibility.

High Temperature Tolerance - Maximum temperature tolerance of 250° F.

Gripper Gasket LLC | 1660 Leeson Lane | Corona, CA 92879
(951) 479-4999

grippergasket.com

REV. 05/23



Addendum 3 Attachment – Photos of work area inside the tunnel



Photo 1 – Johnson Street at Garage Entrance looking Downstream



Photo 2 (from TruView Scan) – Johnson Street, Gas lines, looking Upstream



Photo 3 (from TruView Scan) – Gas lines



Photo 4 – Johnson Street, Water line and sewer, looking downstream



Photo 5 (from TruView Scan) – Johnson Street, Waterline, looking downstream



Photo 6 – Byers St, at culvert opening



Photo 7 – Byers St, from opening looking upstream



Photo 8 – New Street, near end of tunnel, looking upstream



Photo 9 – New Street, near end of tunnel, looking south



Photo 10 - New Street, near end of tunnel, looking north



Photo 11 – Creek opening between garage and City Hall, looking upstream