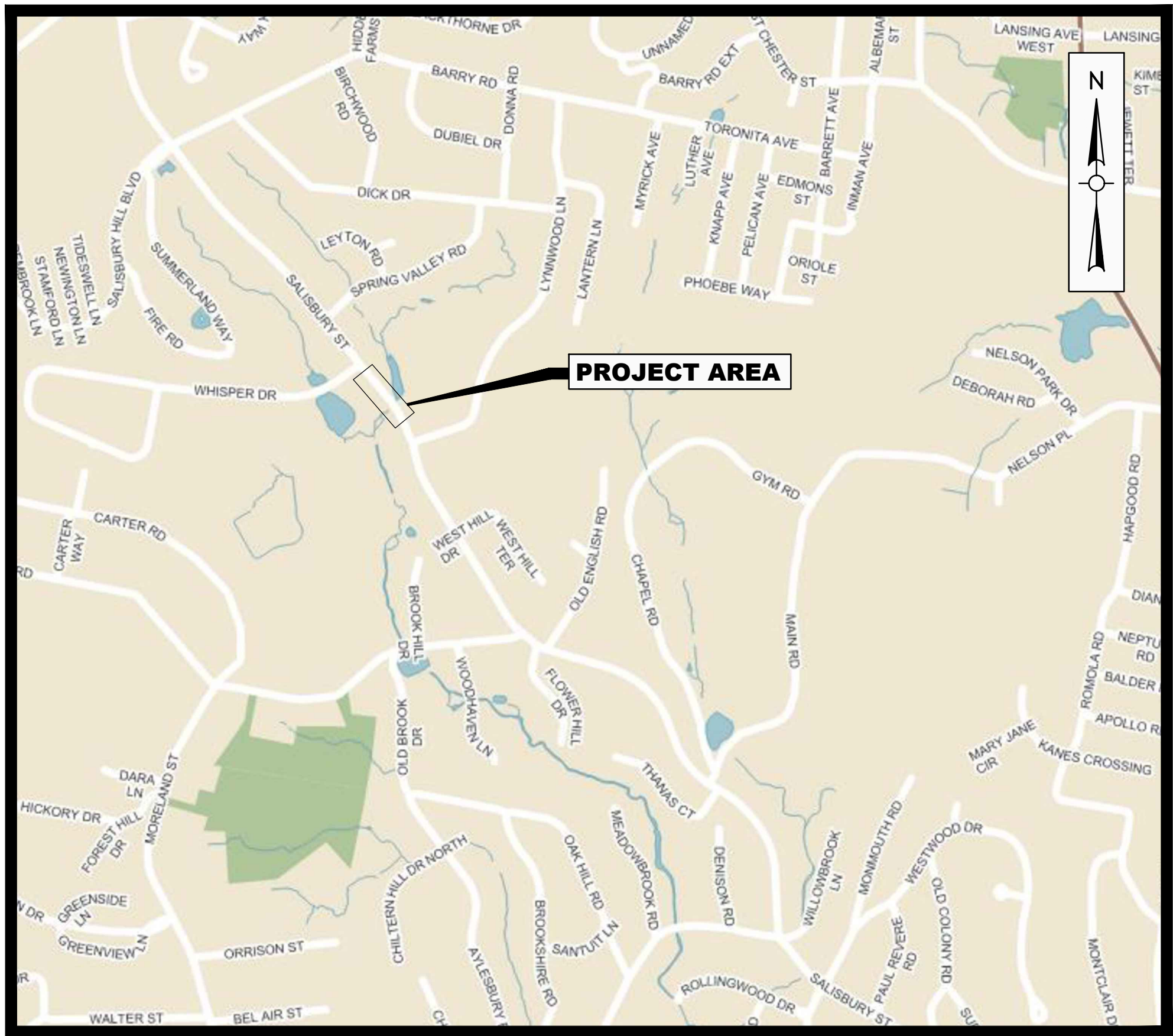


CITY OF WORCESTER, MASSACHUSETTS  
DEPARTMENT OF PUBLIC WORKS & PARKS  
SALISBURY STREET CULVERT REPLACEMENT



LOCUS MAP  
NOT TO SCALE

DRAWING INDEX	
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CONTRACT NO. S25-4  
BID # 8491-J6



The City of  
Worcester

ERIC D. BATISTA, CITY MANAGER  
JOHN WESTERLING, COMMISSIONER OF PUBLIC WORKS



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JULY 2025








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1. TOPOGRAPHICAL INFORMATION BASED ON AN ON THE GROUND SURVEY PERFORMED BY WESTON & SAMPSON PE, L.P.A., P.C. ON DECEMBER 9, 2021.
2. HORIZONTAL DATUM IS MASSACHUSETTS STATE PLANE COORDINATE SYSTEM (MAINLAND NAD83) AND VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM (NAVD) 1988.
3. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL DIG TEST PITS WITH THE LOCATIONS BEING APPROVED BY THE ENGINEER PRIOR TO COMMENCEMENT OF WORK TO EXACTLY LOCATE EXISTING UTILITIES.
4. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
5. THE CONTRACTOR SHALL COORDINATE WITH EVERSOURCE AND MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY OWNER. ANY ALTERATIONS SHALL BE INCIDENTAL TO THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY SUPPORT OF ALL UTILITIES TO REMAIN IN PLACE AND SHALL DESCRIBE IN WRITING, TO THE SATISFACTION OF THE ENGINEER, HIS METHOD OF TEMPORARY SUPPORT.
6. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
7. THE TERM "PROPOSED (PROP)" INDICATES WORK TO BE CONSTRUCTED USING NEW MATERIALS OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE AND RESET (R&R)".
8. ALL EXISTING STATE, COUNTY AND TOWN LOCATION LINES AND PRIVATE PROPERTY LINES HAVE BEEN ESTABLISHED FROM AVAILABLE INFORMATION AND THEIR EXACT LOCATIONS ARE NOT GUARANTEED.
9. ALL EXCESS MATERIAL FROM ROADWAY RECONSTRUCTION OR THE EXCAVATION PROCESS SHALL BE REUSED ON SITE OR REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL AND PROPER MANNER.
10. THE CONTRACTOR SHALL CALL DIGSAFE AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO EXCAVATING AT ANY LOCATION, SATURDAYS, AND HOLIDAYS EXCLUDED. A COPY OF THE DIGSAFE PROJECT REFERENCE NUMBER(S) SHALL BE GIVEN TO THE TOWN PRIOR TO EXCAVATION.
11. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HIRE A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE COMMONWEALTH OF MASSACHUSETTS FOR ALL LAYOUT WORK INCLUDING BASELINE LAYOUT. LAYOUT SHALL INCLUDE ALL PROPOSED WORK AS SHOWN IN THE CONTRACT DOCUMENTS, OR AS REQUIRED BY THE ENGINEER OR CITY. ONCE LAID OUT, ALL PROPOSED WORK SHALL BE DEEMED ACCEPTABLE BY THE ENGINEER OR CITY PRIOR TO ANY COMMENCEMENT OF WORK. ANY AND ALL WORK RELATED TO THE CONSTRUCTION LAYOUT SHALL BE INCIDENTAL TO THE PROJECT. THE CONTRACTOR'S SURVEYOR SHALL LOCATE CURRENT HORIZONTAL AND VERTICAL CONTROL POINTS AND CREATE ALTERNATE CONTROL POINTS OUTSIDE OF THE CONSTRUCTION ZONE. RESETTING OF CONTROL DUE TO CONSTRUCTION OPERATION WILL BE CONSIDERED INCIDENTAL TO THE PROJECT.
12. JOINTS BETWEEN HOT MIX ASPHALT TRENCH PAVEMENT AND SAWCUT EXISTING PAVEMENT SHALL BE SEALED WITH HOT MIX ASPHALT JOINT SEALANT.
13. IF DEEMED NECESSARY DUE TO THE WORK, THE CONTRACTOR SHALL COORDINATE WITH THE MUNICIPAL HIGHWAY DEPARTMENT, FIRE DEPARTMENTS, AND THE ENGINEERS FOR APPROVAL OF SHUTTING DOWN ANY EXISTING WATER MAINS AND SHALL ALSO OBTAIN APPROVAL FOR DISRUPTING ANY EXISTING SEWER FLOWS.
14. THE CONTRACTOR SHALL BE AWARE THAT ONLY CITY PERSONNEL ARE ALLOWED TO OPERATE WATER GATES AND HYDRANTS. ANY REQUESTS TO OPERATE THE GATES SHALL BE COORDINATED THROUGH THE ENGINEER.
15. THE EXISTING GAS MAIN LOCATIONS ARE SHOWN IN AN APPROXIMATE LOCATION. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE GAS COMPANY PRIOR TO COMMENCEMENT OF ANY WORK AND CONFIRMING SIZES, TYPES OF GAS LINES, AND EXACT LOCATIONS OR CHANGE OF PIPE TYPE. ALL COORDINATION AND ARRANGEMENTS WITH THE UTILITY COMPANIES SHALL BE INCIDENTAL TO THE PROJECT. ANY DELAY IN WORK DUE TO CONFLICTS WITH THE PROPOSED WORK AND ACTUAL LOCATION OF EXISTING GAS MAIN SHALL BE INCIDENTAL TO THE PROJECT.
16. THE CONTRACTOR SHALL COORDINATE ANY WORK FOR THE PROJECT WITH ALL ADJACENT/CONCURRENT PROJECTS AND CONTRACTORS.
17. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL INSTALL INLET SEDIMENT CONTROL BAGS IN ALL CATCH BASINS, WITHIN OR ADJACENT TO THE PROJECT LIMITS. THE CONTRACTOR SHALL MAINTAIN INLET SEDIMENT CONTROL BAGS, SILT FENCE AND COMPOST FILTER TUBES AS SHOWN ON THE PLANS THROUGHOUT THE DURATION OF THE PROJECT AND REMOVE AT THE COMPLETION OF THE PROJECT.
18. ANY GRASS AREAS DISTURBED BY THE WORK SHALL BE RESTORED WITH LOAM AND SEED.
19. ANY LANDSCAPED AREAS DISTURBED BY THE WORK SHALL BE RESTORED TO EXISTING CONDITIONS WITH EXISTING OR NEW GROUND COVER MATERIALS AS DIRECTED BY THE ENGINEER. ANY PLANTS, SHRUBS, OR FLOWERS DISTURBED BY THE WORK SHALL BE RESET TO EXISTING CONDITIONS OR REPLACED WITH NEW PLANTS, SHRUBS, OR FLOWERS AS DIRECTED BY THE ENGINEER. ALL WORK TO RESTORE LANDSCAPE AREAS, NEW GROUND COVER MATERIALS, NEW PLANTS, NEW SHRUBS, OR NEW FLOWERS REQUIRED BY THE ENGINEER SHALL BE INCIDENTAL TO THE PROJECT.
20. CONTRACTOR TO COORDINATE WITH UTILITY POLE OWNERS IN AREAS WHERE UNDERGROUND UTILITY WORK IS WITHIN CLOSE PROXIMITY AND POSSIBLE UTILITY POLE SHORING IS REQUIRED WHILE INSTALLING PROPOSED UTILITIES.
21. RAISE AND ADJUST FRAMES AND GRATES, FRAMES AND COVERS AND GATE BOXES PRIOR TO PAVEMENT OVERLAY.
22. DRAINAGE ELEVATIONS ARE PROVIDED FOR DESIGN PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES THAT MAY CONFLICT WITH THE PROPOSED DRAINAGE BY TEST PIT. ANY FIELD ADJUSTMENTS REQUIRED WILL BE MADE AS APPROVED BY THE ENGINEER. THE DRAINAGE STRUCTURES SHALL BE ORDERED ONLY AFTER THE CONTRACTOR VERIFIES ELEVATIONS FOR THE CONSTRUCTIBILITY OF THE DRAINAGE SYSTEM. ANY FIELD ADJUSTMENTS TO LINE & GRADE UP TO A DEPTH OF 5' SHALL BE INCLUDED IN THE COST OF THE PIPE. PIPE EXCAVATION GREATER THAN 5' WILL BE PAID UNDER CLASS B TRENCH EXCAVATION.
23. SHOULD THE CONTRACTOR DETERMINE THAT DUE TO WEATHER OR CONDITIONS BEYOND THEIR CONTROL WORK WOULD NEED TO BE CANCELED, THE CONTRACTOR SHALL PROVIDE THE TRAFFIC CONTROL OFFICER AND ENGINEER A MINIMUM OF 1-HOUR NOTICE. IF THE 1-HOUR CANCELLATION IS NOT PROVIDED THE CONTRACTOR SHALL PAY FOR POLICE DETAIL TIME AT THE PREVAILING RATE ESTABLISHED BY THE WORCESTER POLICE DEPARTMENT.

PAVEMENT MARKINGS SYMBOLS		
<u>EXISTING</u>	<u>PROPOSED</u>	<u>DESCRIPTION</u>
		SOLID WHITE LINE
		DOUBLE YELLOW LINE
		STOP LINE

ABBREVIATIONS (cont.)	
GENERAL	
R	RADIUS OF CURVATURE
RB	REBAR / IRON PIPE
R&D	REMOVE AND DISPOSE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RDWY	ROADWAY
REM	REMOVE
RET	RETAIN
RET WALL	RETAINING WALL
RIM	RIM ELEVATION
ROE	RIGHT OF ENTRY
ROW	RIGHT OF WAY
RR	RAILROAD
R&D	REMOVE AND DISCARD
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
RT	RIGHT
SB	STONE BOUND
SHLD	SHOULDER
SMH	SEWER MANHOLE
SPEC	SPECIFICATIONS
ST	STREET
STA	STATION
SSD	STOPPING SIGHT DISTANCE
SHLO	STATE HIGHWAY LAYOUT LINE
SW	SIDEWALK
SWTU	STORMWATER TREATMENT UNIT
T	TANGENT DISTANCE OF CURVE
TAN	TANGENT
TEMP	TEMPORARY
TC	TOP OF CURB
TOB	TOP OF BANK
TOS	TOP OF SLOPE
TP	TEST PIT
TYP	TYPICAL
UG	UNDERGROUND
UP	UTILITY POLE
VAR	VARIES
VERT	VERTICAL
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VGC	VERTICAL GRANITE CURB
WF	WETLAND FLAG
WG	WATER GATE
WM	WATER METER/WATER MAIN
WW	WALKWAY
W/	WITH
X-SECT	CROSS SECTION

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## GENERAL NOTES & LEGEND

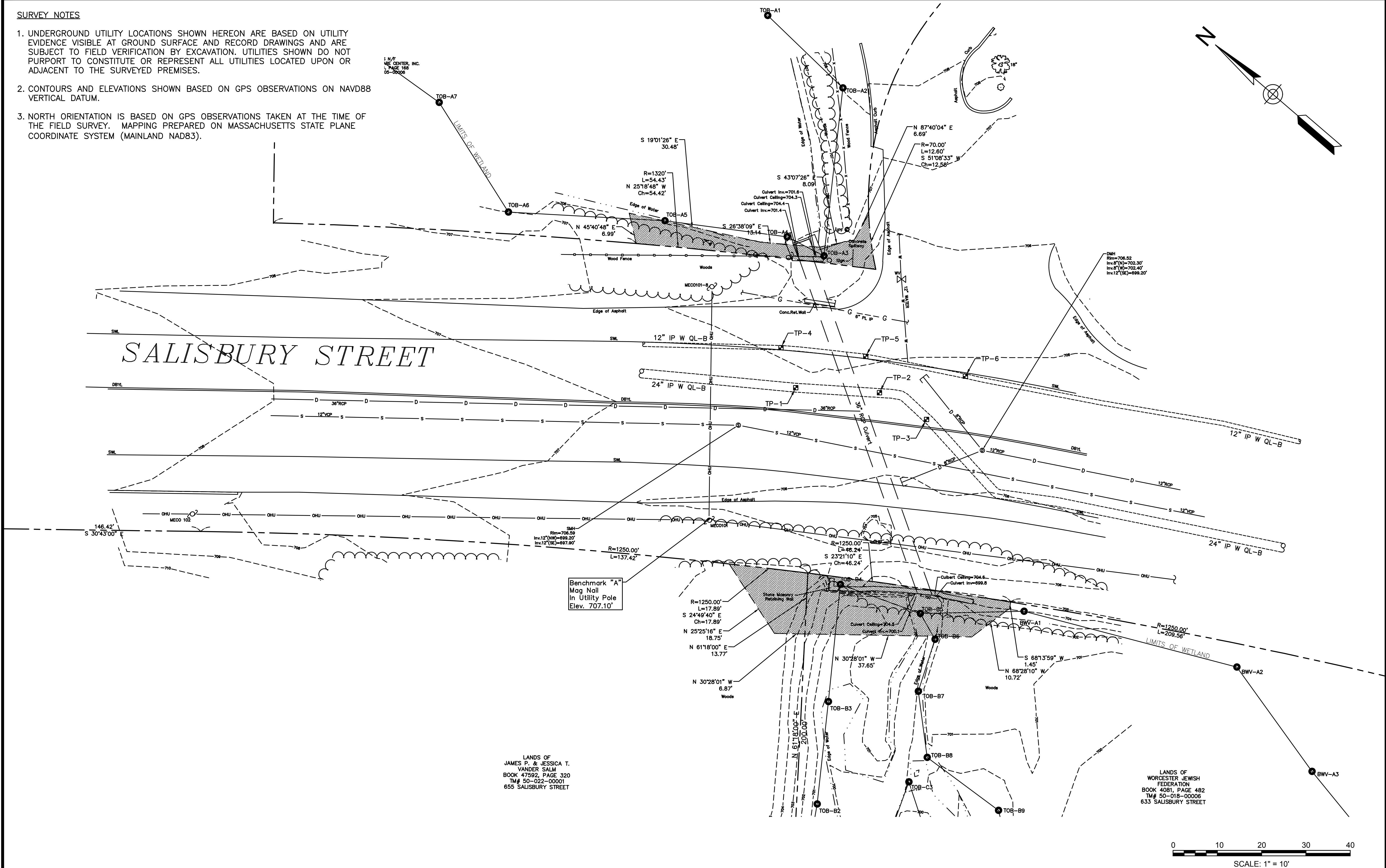
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C-1



SURVEY NOTES

1. UNDERGROUND UTILITY LOCATIONS SHOWN HEREON ARE BASED ON UTILITY EVIDENCE VISIBLE AT GROUND SURFACE AND RECORD DRAWINGS AND ARE SUBJECT TO FIELD VERIFICATION BY EXCAVATION. UTILITIES SHOWN DO NOT PURPORT TO CONSTITUTE OR REPRESENT ALL UTILITIES LOCATED UPON OR ADJACENT TO THE SURVEYED PREMISES.
2. CONTOURS AND ELEVATIONS SHOWN BASED ON GPS OBSERVATIONS ON NAVD88 VERTICAL DATUM.
3. NORTH ORIENTATION IS BASED ON GPS OBSERVATIONS TAKEN AT THE TIME OF THE FIELD SURVEY. MAPPING PREPARED ON MASSACHUSETTS STATE PLANE COORDINATE SYSTEM (MAINLAND NAD83).



Project:  
SALISBURY STREET CULVERT  
REPLACEMENT  
WORCESTER, MA 01609

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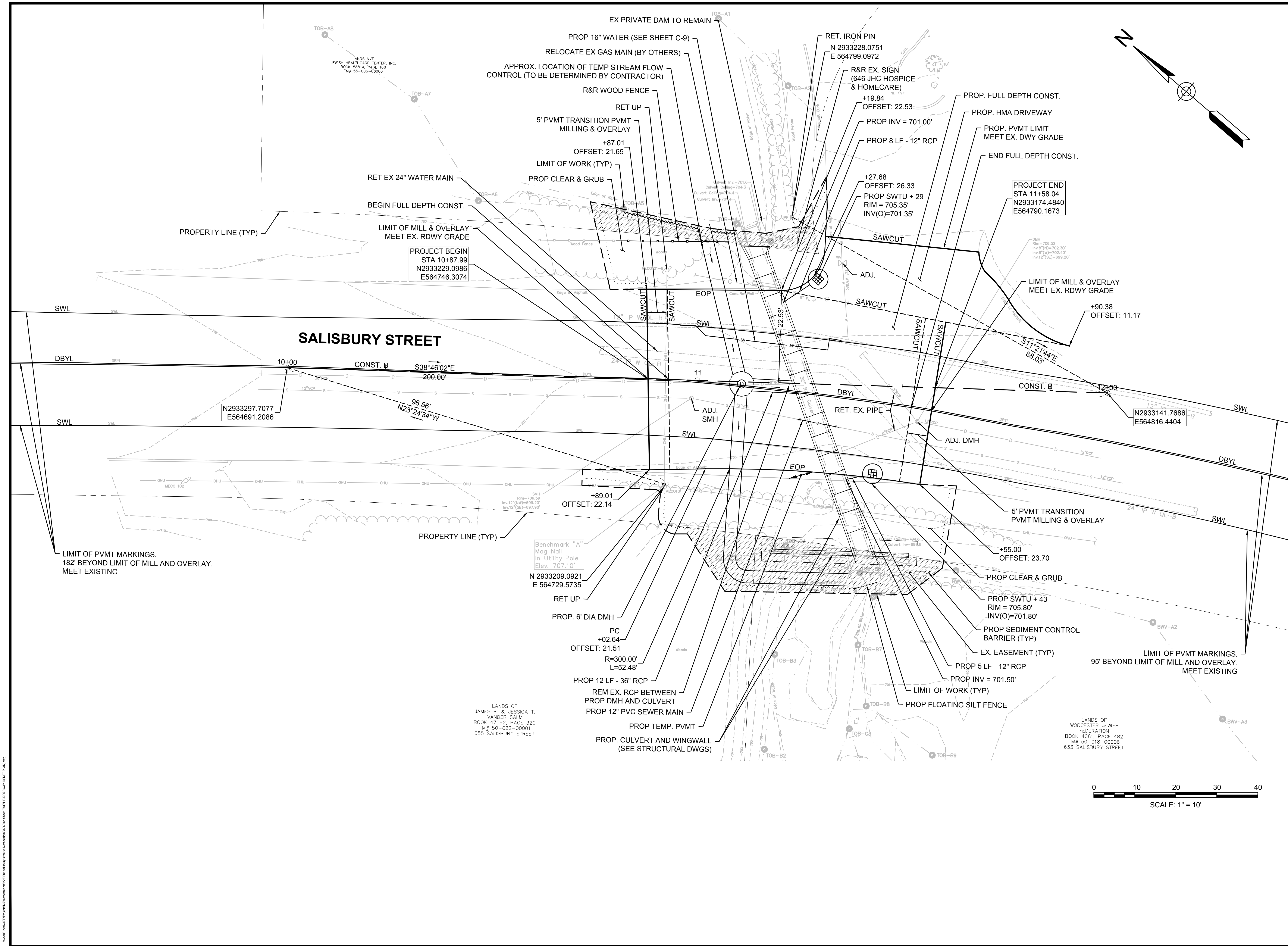
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**EXISTING  
CONDITIONS PLAN**


Sheet Number:  
**C-2**



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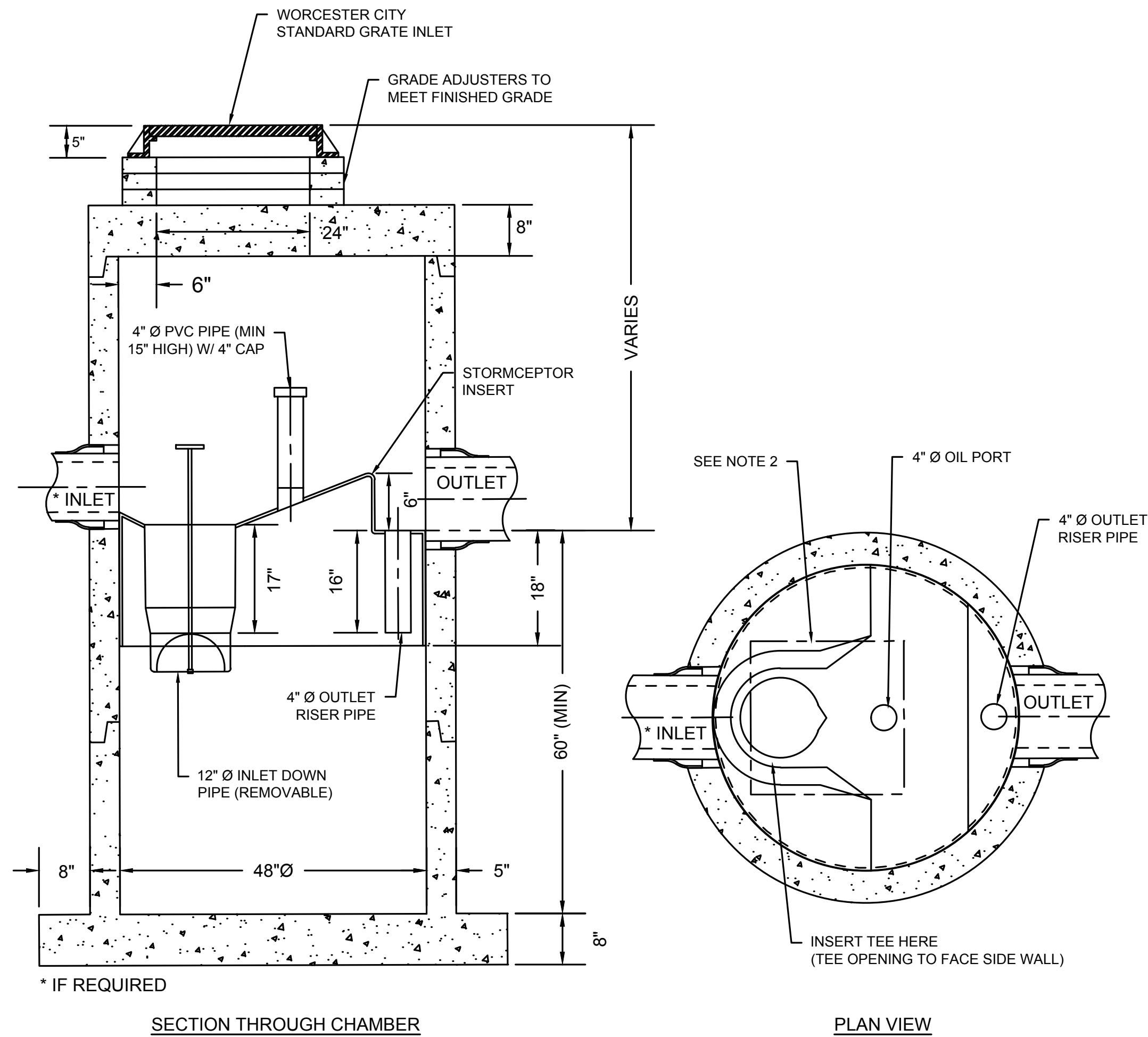
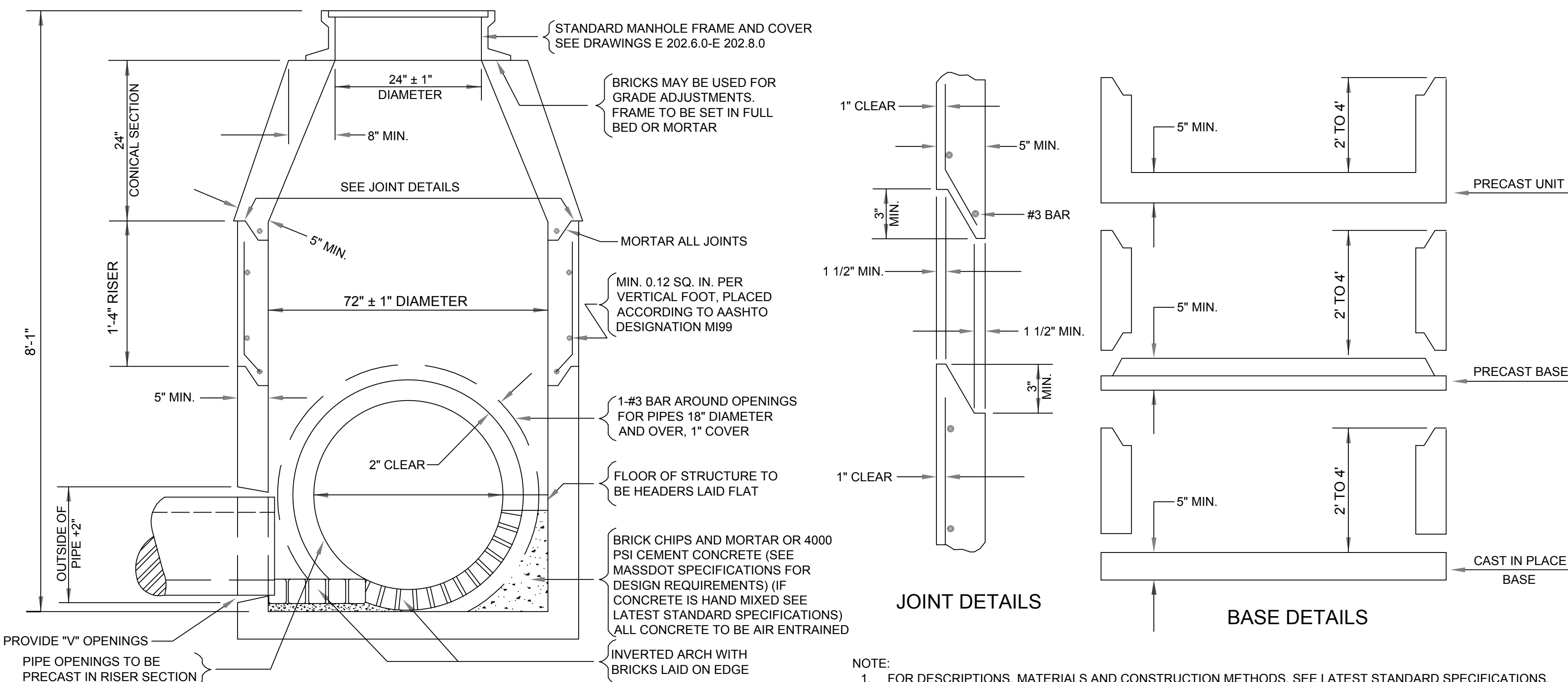
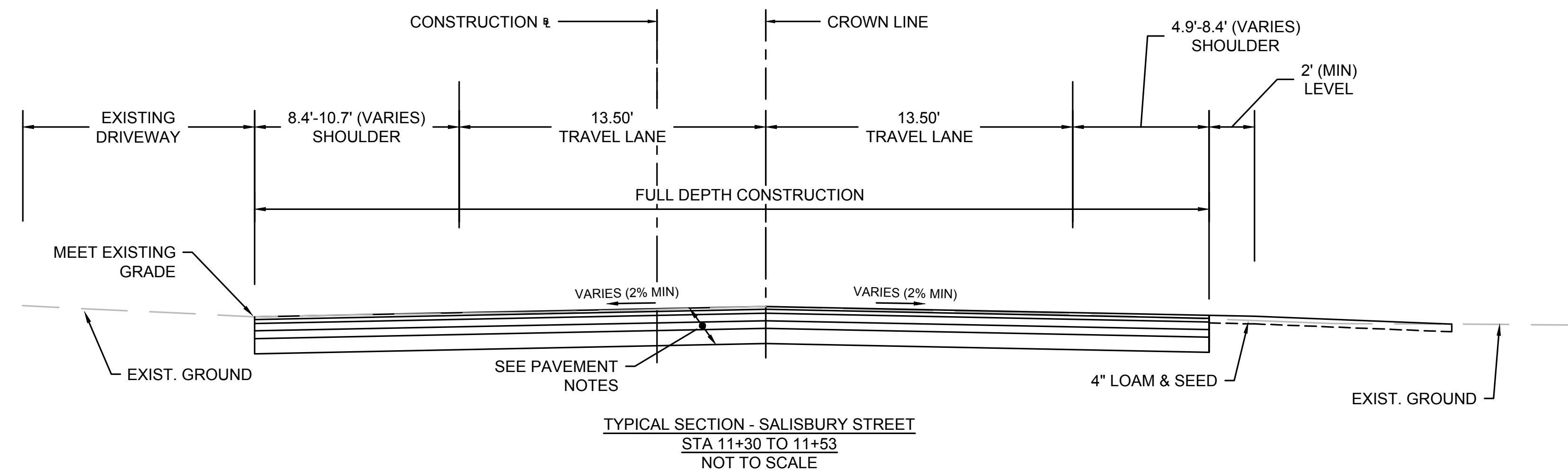
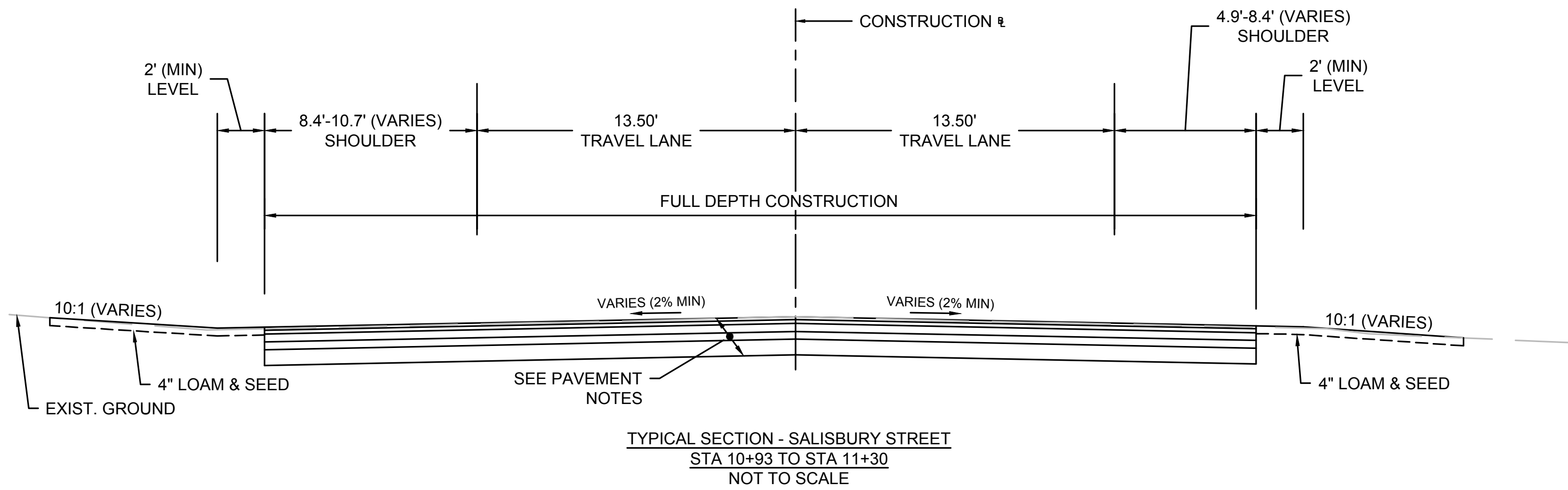
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ROADWAY  
CONSTRUCTION  
PLAN

Sheet Number:

C-3





- NOTES:
- THE USE OF FLEXIBLE CONNECTIONS IS RECOMMENDED AT THE INLET AND OUTLET WHERE APPLICABLE.
  - THE COVER SHOULD BE POSITIONED OVER THE OUTLET DROP PIPE AND THE OIL PORT.

PAVEMENT NOTES

PAVEMENT MILLING AND OVERLAY:

- 1 1/2" SUPERPAVE (9.5MM LEVEL 2) OVER ASPHALT EMULSION FOR TACK COAT OVER
- 1 1/2" GRINDING AND MILLING

ROADWAY FULL DEPTH RECONSTRUCTION:

- 1 1/2" SUPERPAVE (9.5MM LEVEL 2) OVER ASPHALT EMULSION FOR TACK COAT OVER
- 2 1/2" SUPERPAVE (12.5MM LEVEL 3) OVER ASPHALT EMULSION FOR TACK COAT OVER
- 4" SUPERPAVE (19MM LEVEL 2) OVER
- 8" DENSE GRADED CRUSHED STONE OVER
- 8" GRAVEL BORROW, TYPE B

PROPOSED PAVEMENT OVER CULVERT

- 1 1/2" SUPERPAVE (9.5MM LEVEL 2) OVER ASPHALT EMULSION FOR TACK COAT OVER
- 1 1/2" SUPERPAVE (12.5MM LEVEL 3) OVER
- 4" (MIN.) DENSE GRADED CRUSHED STONE

HOT MIX ASPHALT DRIVEWAY

- 1 1/2" SUPERPAVE (9.5MM LEVEL 2) OVER ASPHALT EMULSION FOR TACK COAT OVER
- 2 1/2" SUPERPAVE (12.5MM LEVEL 3) OVER
- 8" GRAVEL BORROW, TYPE B

TEMPORARY PAVEMENT WIDENING:

- 1 1/2" SUPERPAVE (9.5MM LEVEL 2) OVER ASPHALT EMULSION FOR TACK COAT OVER
- 2 1/2" SUPERPAVE (12.5MM LEVEL 3) OVER
- 12" GRAVEL BORROW, TYPE B

TACK COAT SHALL BE APPLIED AT RATE OF 0.09 GALLON PER YARD OVER MILLED SURFACES AND 0.08 GALLON PER SQUARE YARD OVER SMOOTH PAVED SURFACES.

\*TOLERANCE FOR CONSTRUCTION ±0.5%

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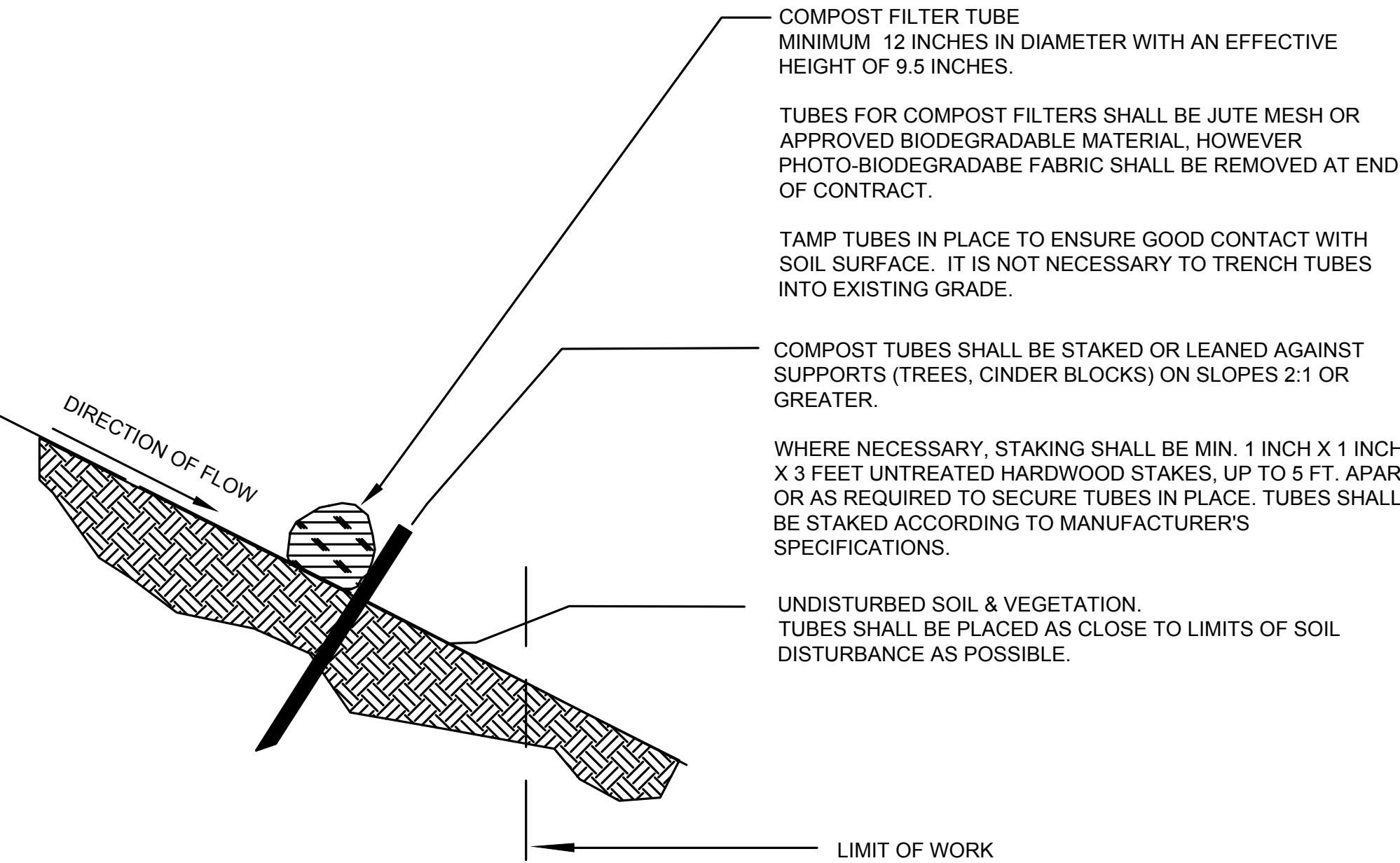
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DETAILS 1**

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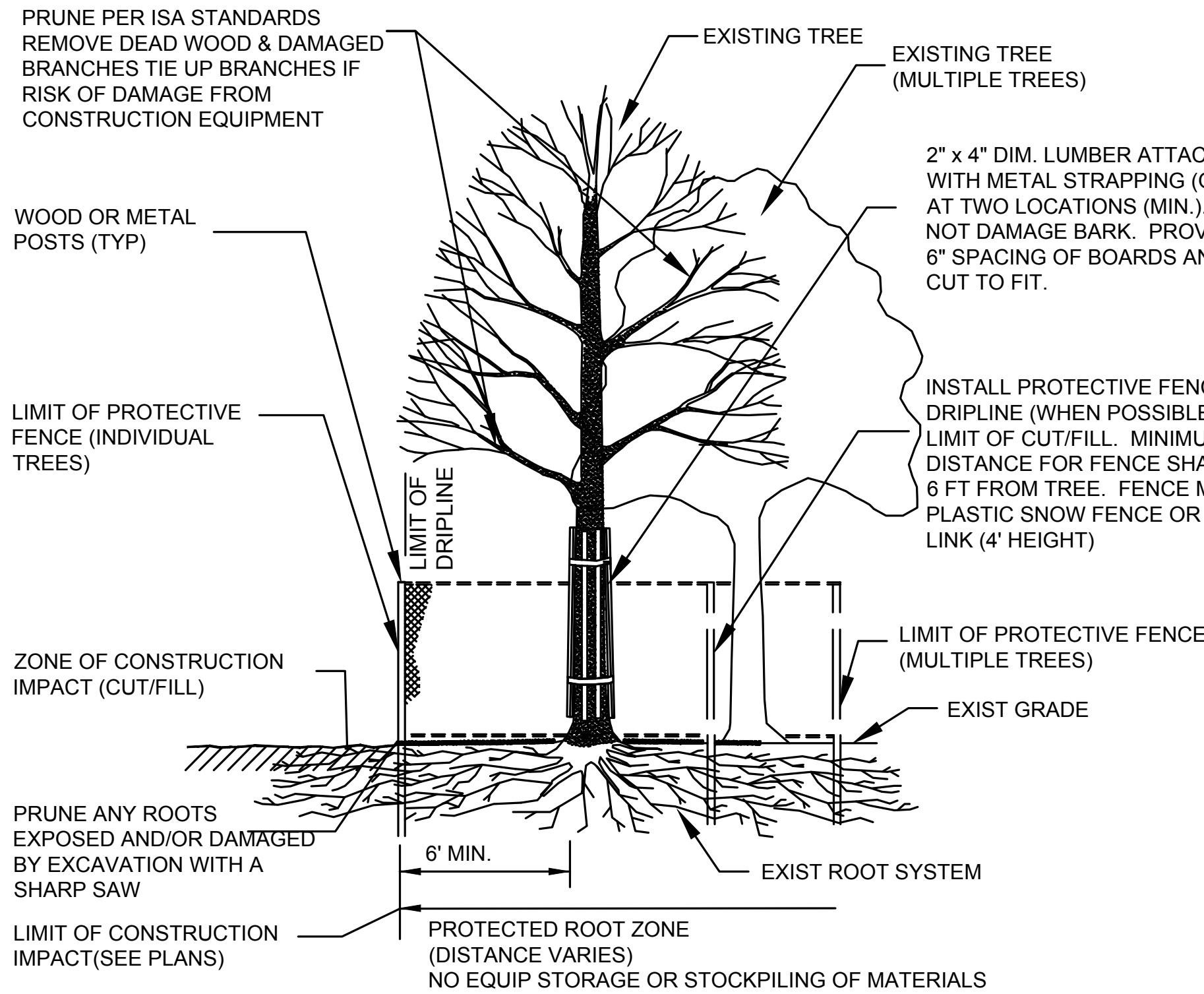


GENERAL NOTES:

1. PROVIDE A MINIMUM TUBE DIAMETER OF 12 INCHES FOR SLOPES UP TO 50 FEET IN LENGTH WITH A SLOPE RATIO OF 3H:1V OR STEEPER. LONGER SLOPES OF 3H:1V MAY REQUIRE LARGER TUBE DIAMETER OR ADDITIONAL COURSING OF FILTER TUBES TO CREATE A FILTER BERM. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SITUATIONS WITH LONGER OR STEEPER SLOPES.
2. INSTALL TUBES ALONG CONTOURS AND PERPENDICULAR TO SHEET OR CONCENTRATED FLOW.
3. TUBE LOCATION MAY BE SHIFTED TO ADJUST TO LANDSCAPE FEATURES, BUT SHALL PROTECT UNDISTURBED AREA AND VEGETATION TO MAXIMUM EXTENT POSSIBLE.
4. DO NOT INSTALL IN PERENNIAL, EPHEMERAL OR INTERMITTENT STREAMS.
5. ADDITIONAL TUBES SHALL BE USED AT THE DIRECTION OF THE ENGINEER.
6. ADDITIONAL STAKING SHALL BE USED AT THE DIRECTION OF THE ENGINEER.

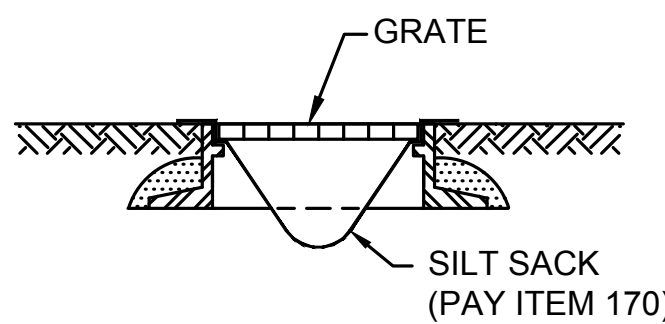


1 SEDIMENT CONTROL BARRIER - SINGLE COMPOST FILTER TUBE  
SCALE: N.T.S.



NOTE: THIS DETAIL APPLIES TO THE TREES TO BE PROTECTED WITHIN LIMIT OF WORK

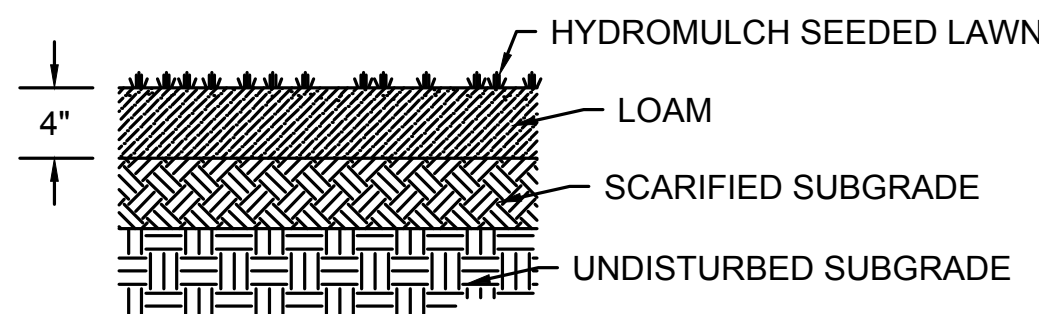
2 EXISTING TREE PROTECTION  
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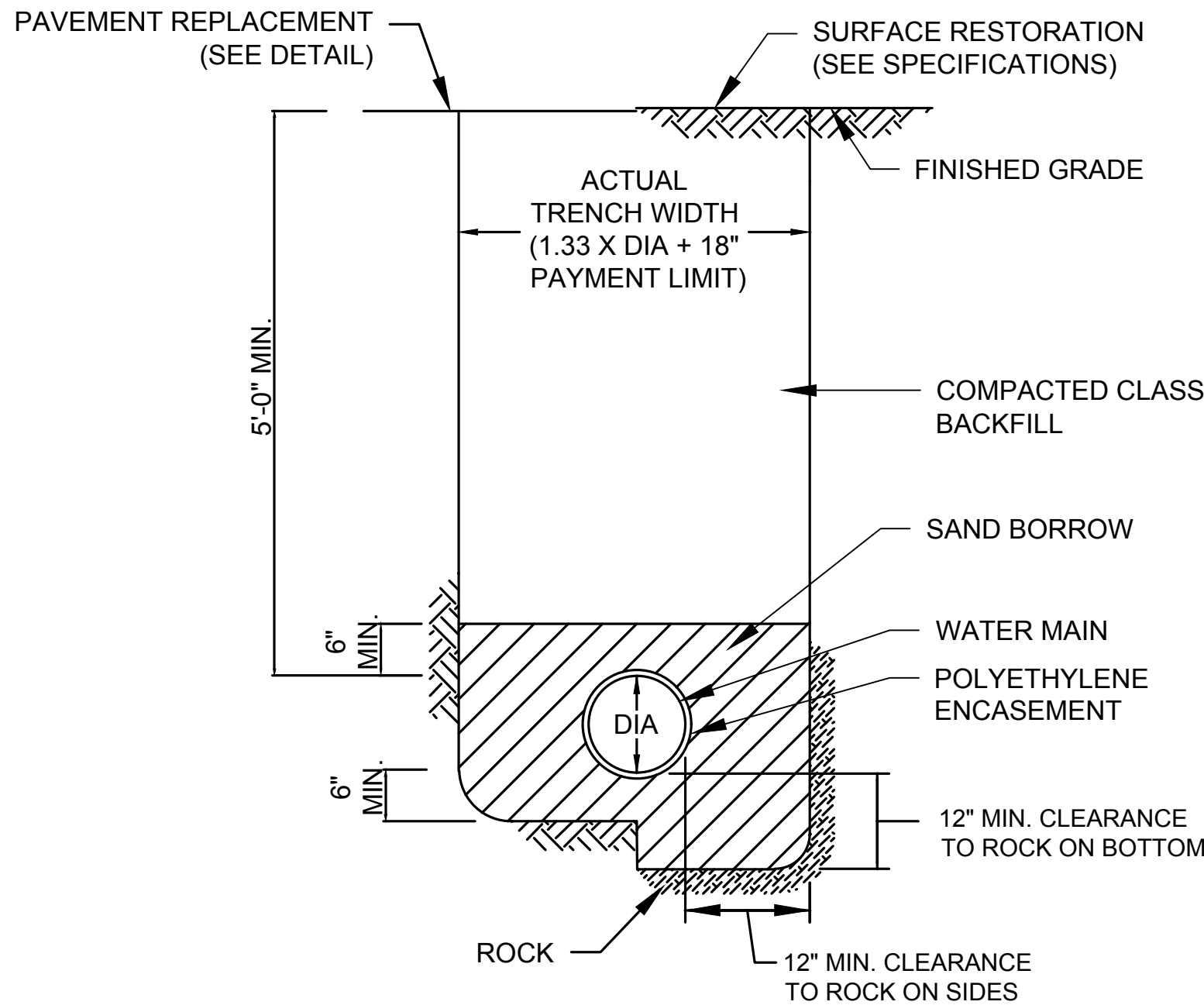
NOTES:

1. INSTALL SILT SACK IN ALL EXISTING AND PROPOSED CATCH BASINS, GUTTER INLETS, AND ALL CURB INLETS PRIOR TO COMMENCEMENT OF WORK AND MAINTAIN UNTIL END OF WORK.
2. SILT SACK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS. CLEANING AND REPLACEMENT SHALL BE PERFORMED AS NEEDED.

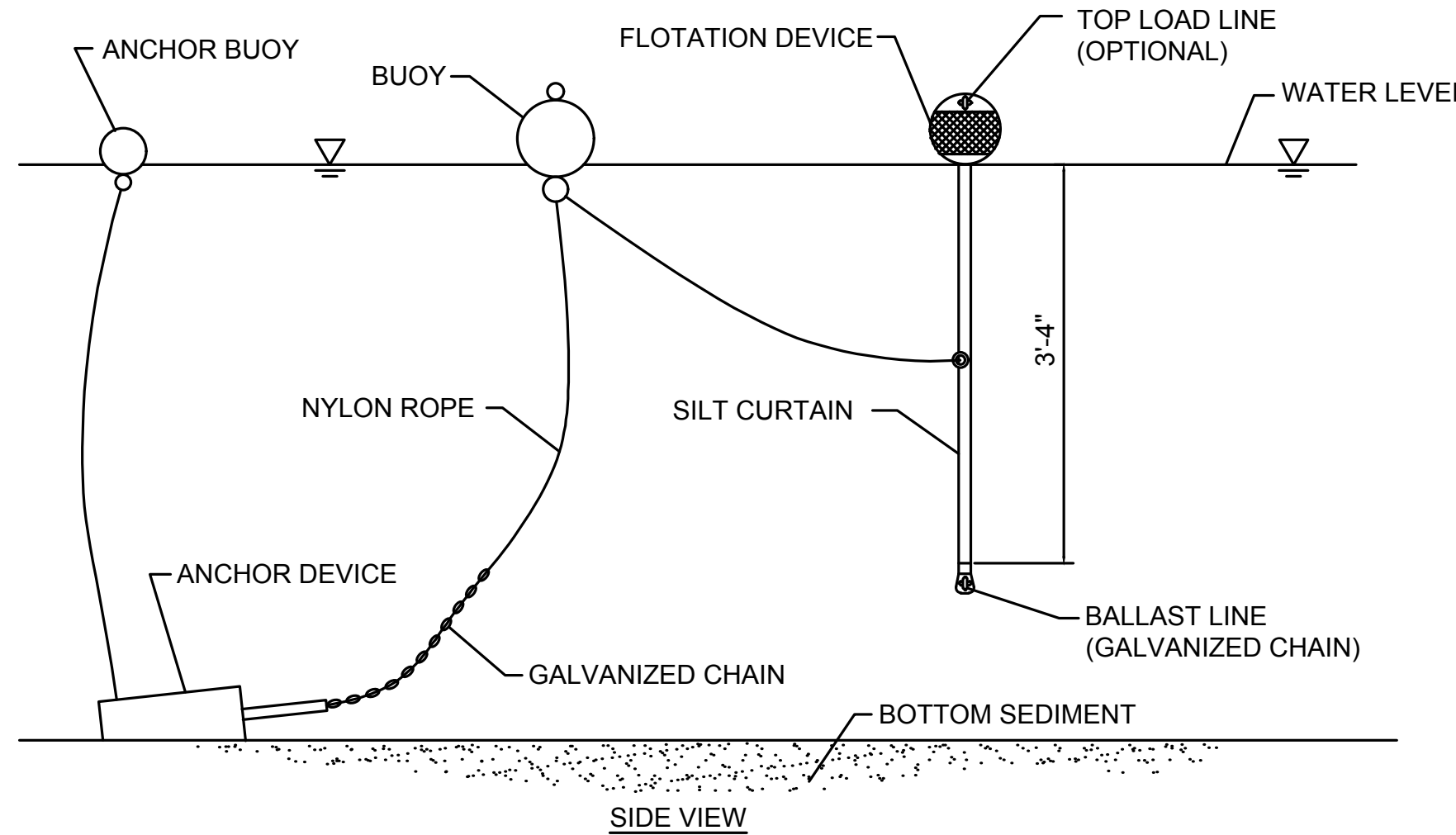
3 CATCH BASIN PROTECTION DETAIL  
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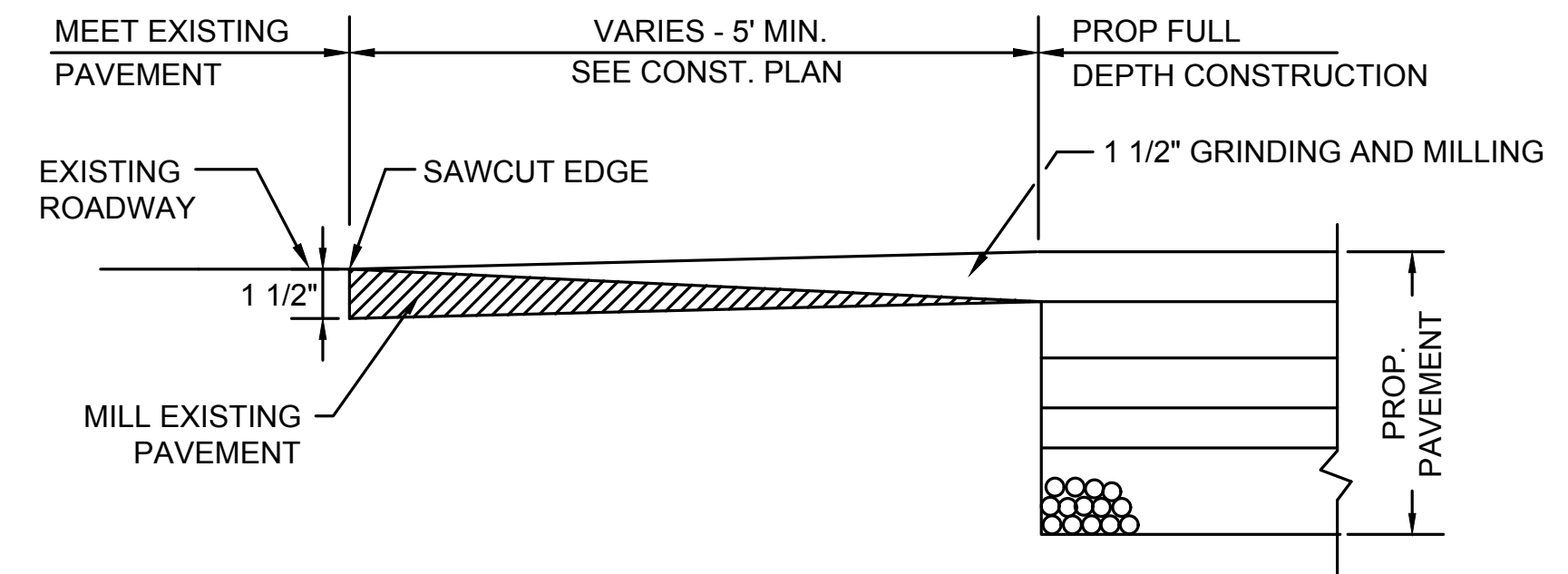
4 LOAM & SEED  
SCALE: N.T.S.



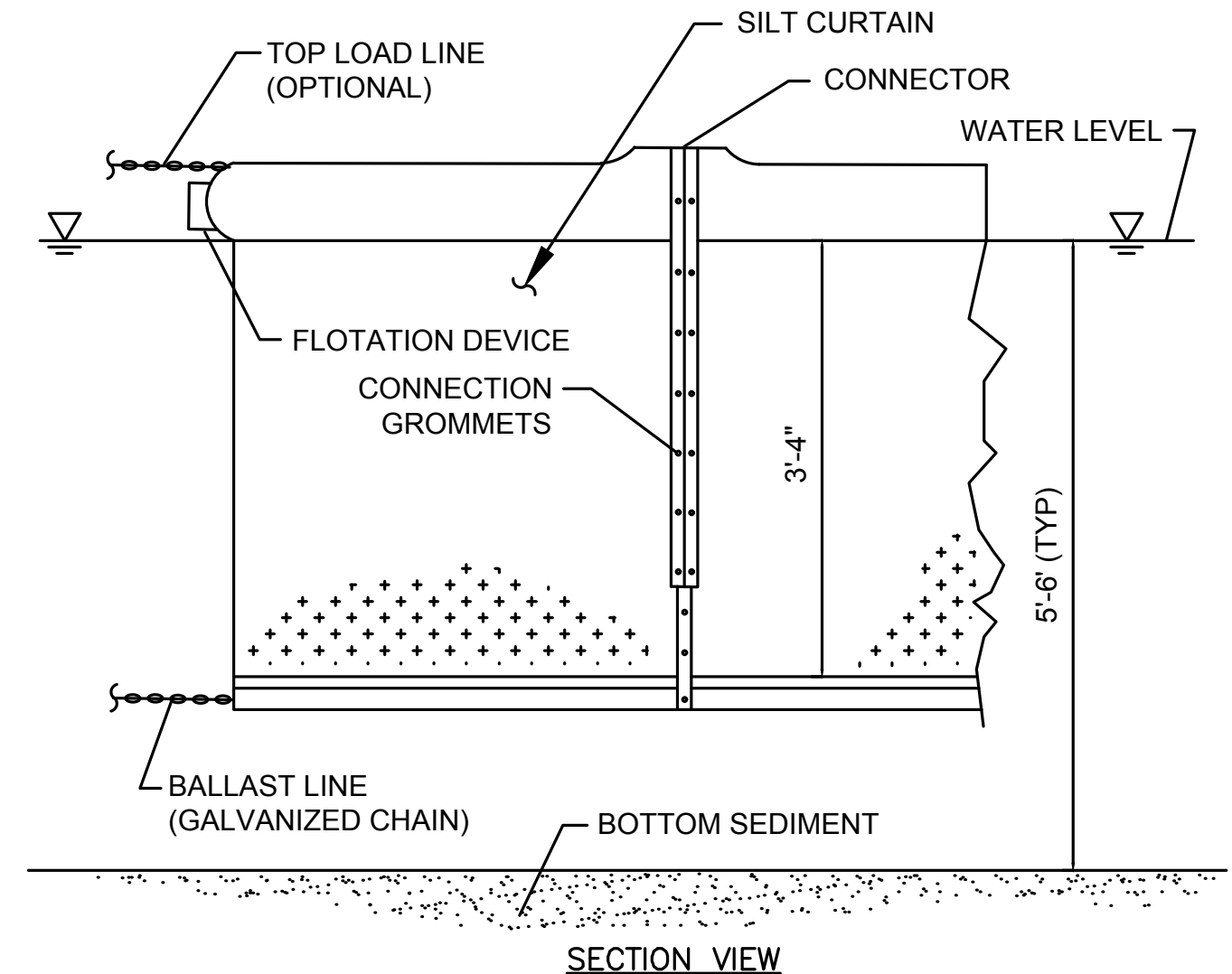
5 WATER MAIN TRENCH DETAIL  
SCALE: N.T.S.



6 DRAINAGE TRENCH  
SCALE: N.T.S.



7 PROPOSED PAVEMENT TRANSITION (LONGITUDINAL SECTION)  
SCALE: N.T.S.



NOTE: FLOATING SILT FENCE SHALL BE PAID FOR UNDER PAY ITEM 171.

8 FLOATING SILT FENCE  
SCALE: N.T.S.

NOTES:

1. EROSION CONTROL MEASURES SHALL BE INCORPORATED IN THE SEQUENCE OF CONSTRUCTION TO PREVENT SEDIMENT LADEN WATER FROM LEAVING THE SITE.
2. AREAS SUBJECT TO EROSION SHALL BE MINIMIZED IN TERMS OF TIME AND AREA.
3. IN GENERAL, WORK REQUIRING EROSION CONTROL INCLUDES EXCAVATIONS, FILLS, DRAINAGE, SWALES AND DITCHES, ROUGH AND FINISH GRADING, AND STOCKPILING OF EARTH.
4. DO NOT DISTURB VEGETATION AND TOPSOIL BEYOND THE PROPOSED LIMIT OF EROSION CONTROL BARRIER.
5. TEMPORARY SILT CONTROLS SHALL BE PLACED AS SHOWN ON THE PLAN. PERMANENTLY STABILIZE EACH COMPLETED SEGMENT OF CONSTRUCTION.
6. THE CONTRACTOR SHALL REMOVE TEMPORARY SILT CONTROLS AND ALL ACCUMULATED SILT AND DEBRIS AFTER COMPLETION OF CONSTRUCTION OPERATIONS.
7. SILT CONTROLS SHALL BE IN PLACE AT ALL TIMES DURING CONSTRUCTION.
8. THE CONTRACTOR SHALL REMOVE AND LEGALLY DISPOSE OF ALL SILT AND DEBRIS FROM EACH DRAINAGE STRUCTURE UPON COMPLETION OF THE PROJECT.
9. OBJECTS AND/OR AREAS DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.
10. ALL DISTURBED AREAS SHALL BE RESTORED TO EXISTING GRADE. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE AS NEEDED.
11. SILT CONTROLS SHALL BE REMOVED UPON THE SATISFACTORY COMPLETION OF ALL WORK SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
12. SITE PERIMETER SHALL HAVE COMPOST FILTER TUBES INSTALLED AT THE LIMIT OF WORK.
13. SEDIMENT CONTROL BARRIER SHALL BE PAID FOR UNDER PAY ITEM 171.

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CONSTRUCTION  
DETAILS 2

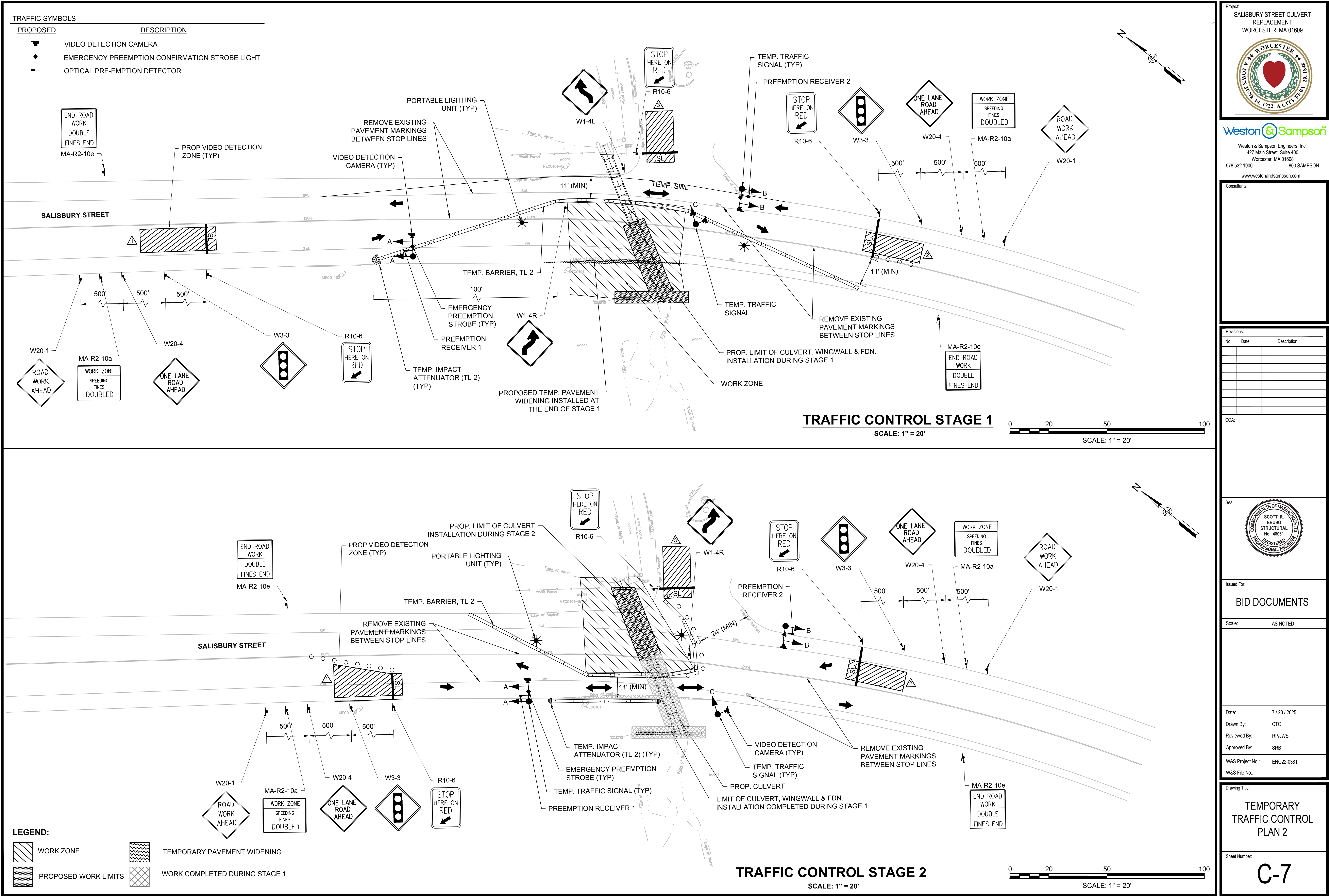
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C-5









TRAFFIC SYMBOLS	
PROPOSED	DESCRIPTION
	VIDEO DETECTION CAMERA
	EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT
	OPTICAL PRE-EMPTION DETECTOR

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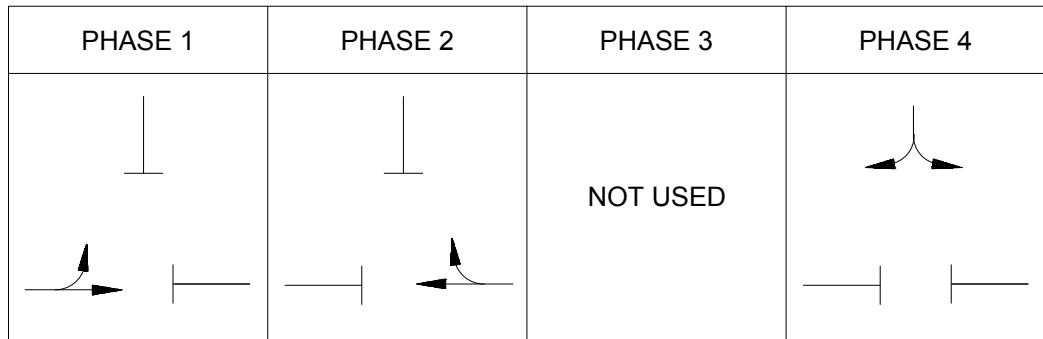
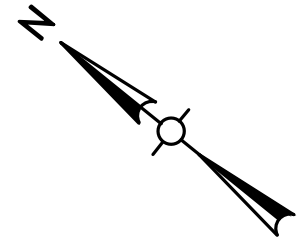
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**TEMPORARY  
TRAFFIC CONTROL  
PLAN 2**

Sheet Number:  
**C-7**

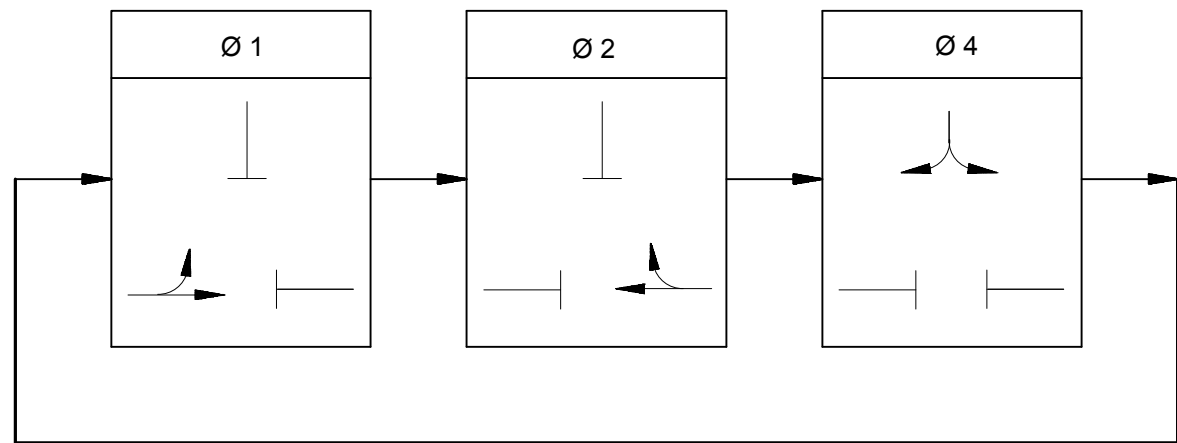




SEQUENCE AND TIMING FOR FULL ACTUATED CONTROL (ISOLATED)

STREET	DIRECTION	HOUSINGS	1	2	3	4	5	6	7	8	9	10	11	12	FLASH OPER.
SALISBURY STREET	EASTBOUND	A	G	Y	R	R	R	R				R	R	R	FR
SALISBURY STREET	WESTBOUND	B	R	R	R	G	Y	R				R	R	R	FR
DRIVEWAY	SOUTHBOUND	C	R	R	R	R	R	R				G	Y	R	FR
TIMING IN SECONDS															
MINIMUM GREEN (INITIAL)			8			8						6			EMERGENCY ONLY
PASSAGE TIME (VEHICLE)			3			3						3			
MAXIMUM 1 (ALL TIMES OF DAY)			25			25						10			
MAXIMUM 2															
YELLOW CLEARANCE				3			3						3		
RED CLEARANCE					12.5			12.5						11	
WALK (W)															
PEDESTRIAN CLEARANCE															
RECALL			NONE			NONE						NONE			
MEMORY															

PREFERENTIAL PHASING SEQUENCE



VIDEO DETECTOR DATA

DETECTOR NUMBER	DETECTOR ZONE SIZE	Ø CALLED	MODE A=PULSE B=PRES.	DELAY TIME	EXT. TIME
1	VIDEO 6'x50'	Ø1	B	-	-
2	VIDEO 6'x50'	Ø2	B	-	-
3	VIDEO 6'x50'	Ø4	B	-	-

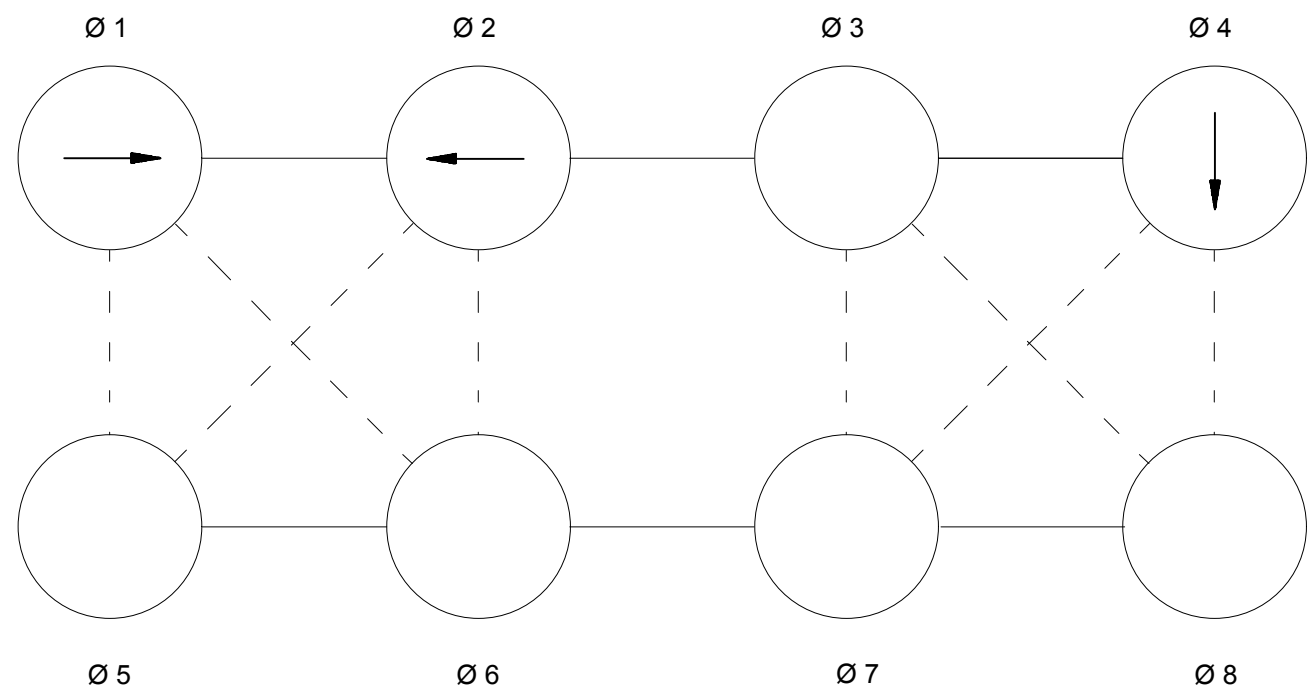
FIRE PREEMPTION SCHEDULE

APPROACH	PREEMPTION PHASE DETECTOR	PHASE CALLED
EASTBOUND	1	Ø1
WESTBOUND	2	Ø2

EMERGENCY VEHICLE PREEMPTION OPERATION:

- EMERGENCY VEHICLE PREEMPTION SHALL BE ACTUATED BY AN OPTICAL SIGNAL FROM AN OPTICAL EMITTER MOUNTED ON AN EMERGENCY VEHICLE AND RECEIVED BY AN OPTICAL DETECTOR LOCATED AT INTERSECTION. A SEPARATE RECEIVING DETECTOR IS REQUIRED FOR EACH DETECTED APPROACH.
- PREEMPTION SIGNALS FROM MULTIPLE APPROACHES SHALL BE SERVICED ON A FIRST DETECTED FIRST SERVED BASIS.
- IN RESPONSE TO A PREEMPTION SIGNAL RECEIVED AT AN INTERSECTION BY AN OPTICAL DETECTOR, THE CONTROLLER SHALL TIME THE CLEARANCE INTERVALS OF THE ACTIVE PHASE (IF DIFFERENT THAT TO BE SERVICED) AND ADVANCE TO AND/OR HOLD IN EMERGENCY VEHICLE PREEMPTION PHASE UNTIL PREEMPTION SIGNAL CEASES. THE CONTROLLER SHALL THEN TIME CLEARANCES AND SIMILARLY SERVICE OTHER EMERGENCY VEHICLE PREEMPTION SEQUENCES IN THE ORDER RECEIVED (IF RECEIVED) OTHERWISE, RESUME NORMAL PREFERENTIAL PHASE SEQUENCE.
- PREEMPTION MINIMUM GREENS SHALL BE SIX SECONDS.
- NORMAL CLEARANCES SHALL BE PROVIDED ON PHASES THAT ARE TERMINATED BY PREEMPTION DEMAND.
- ACTUAL TIMMING FOR PREEMPTION SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH THE FIRE DEPARTMENT AND SHALL BE APPROVED BY MHD PRIOR TO OPERATION.

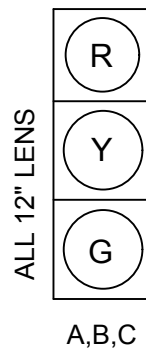
NEMA DUAL RING PHASING NOTES



NOTES:

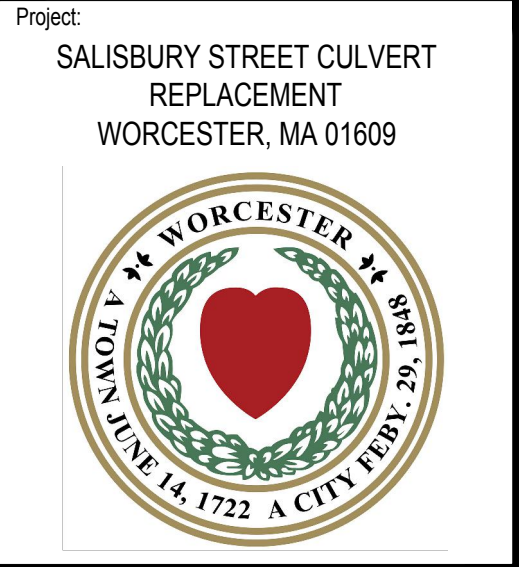
- PHASES ASSOCIATED BY A SOLID LINE SHALL NOT OPERATE CONCURRENTLY.
- THROUGH MOVEMENTS MAY INCLUDE RIGHT TURNS.

SIGNAL IDENTIFICATION



NOTES:

- ALL SIGNALS SHALL HAVE CUT AWAY VISORS.
- ALL SIGNALS SHALL HAVE 12" LED WITH 5" LOUVERED BACK PLATES.
- ALL BACK PLATES SHALL HAVE A 3" RETROREFLECTIVE BORDER



Consultants:

Revisions:		
No.	Date	Description

COA:

Seal:



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Scale: NO SCALE

Date: 7 / 23 / 2025

Drawn By: CTC

Reviewed By: RP/JWS

Approved By: SRB

W&S Project No.: ENG22-0381

W&S File No.:

Drawing Title:

TEMPORARY TRAFFIC CONTROL PLAN PHASING

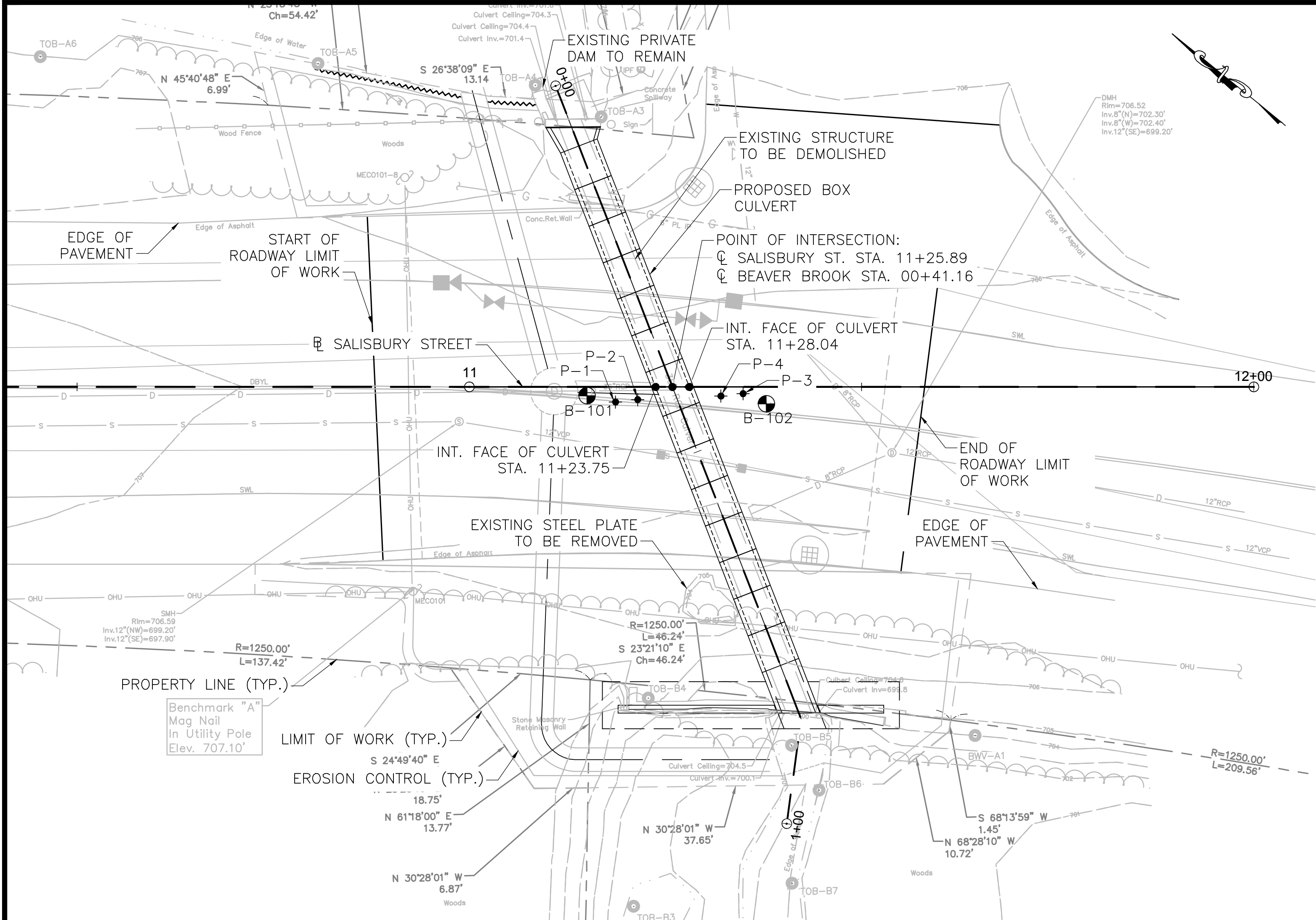
Sheet Number:

C-8

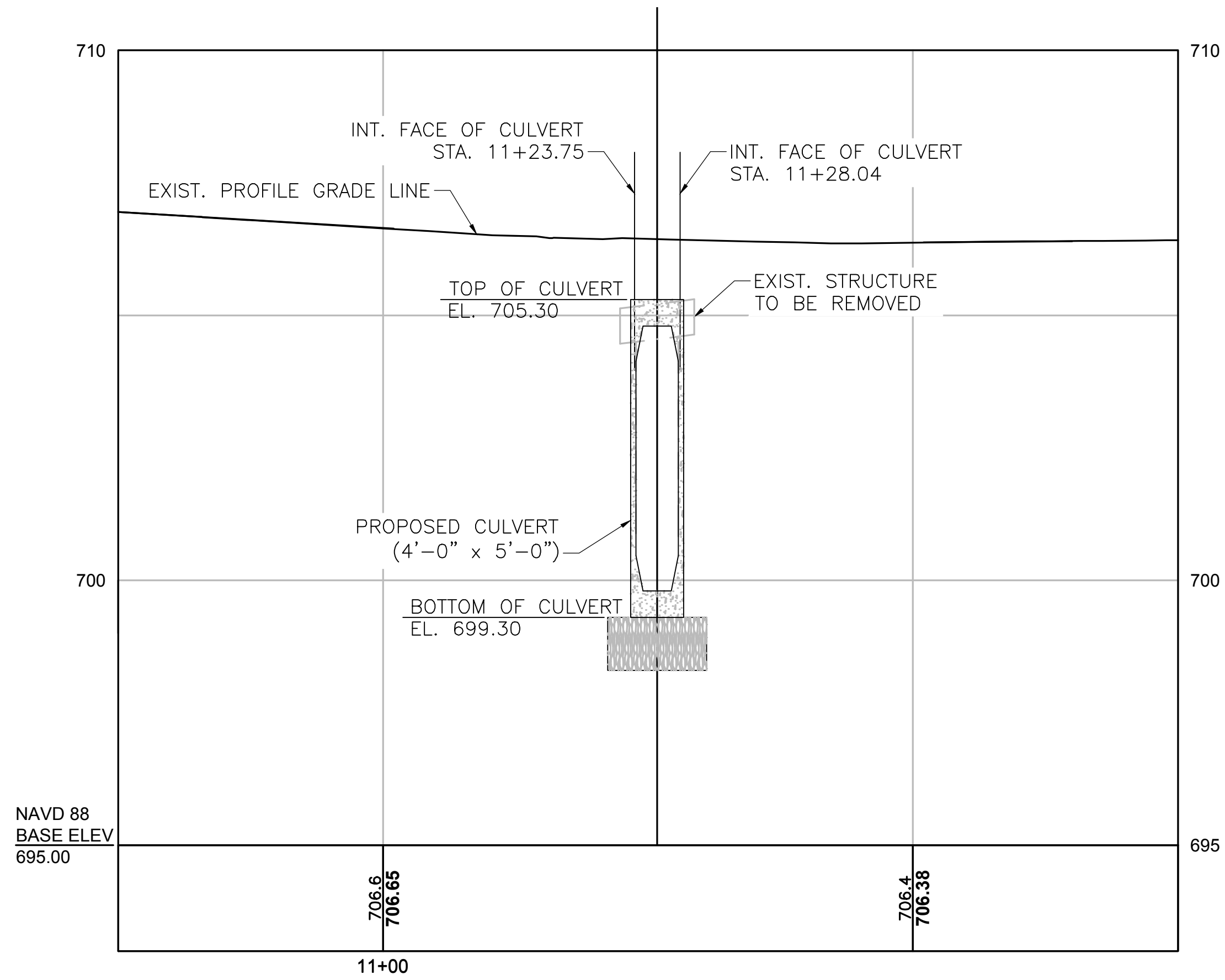






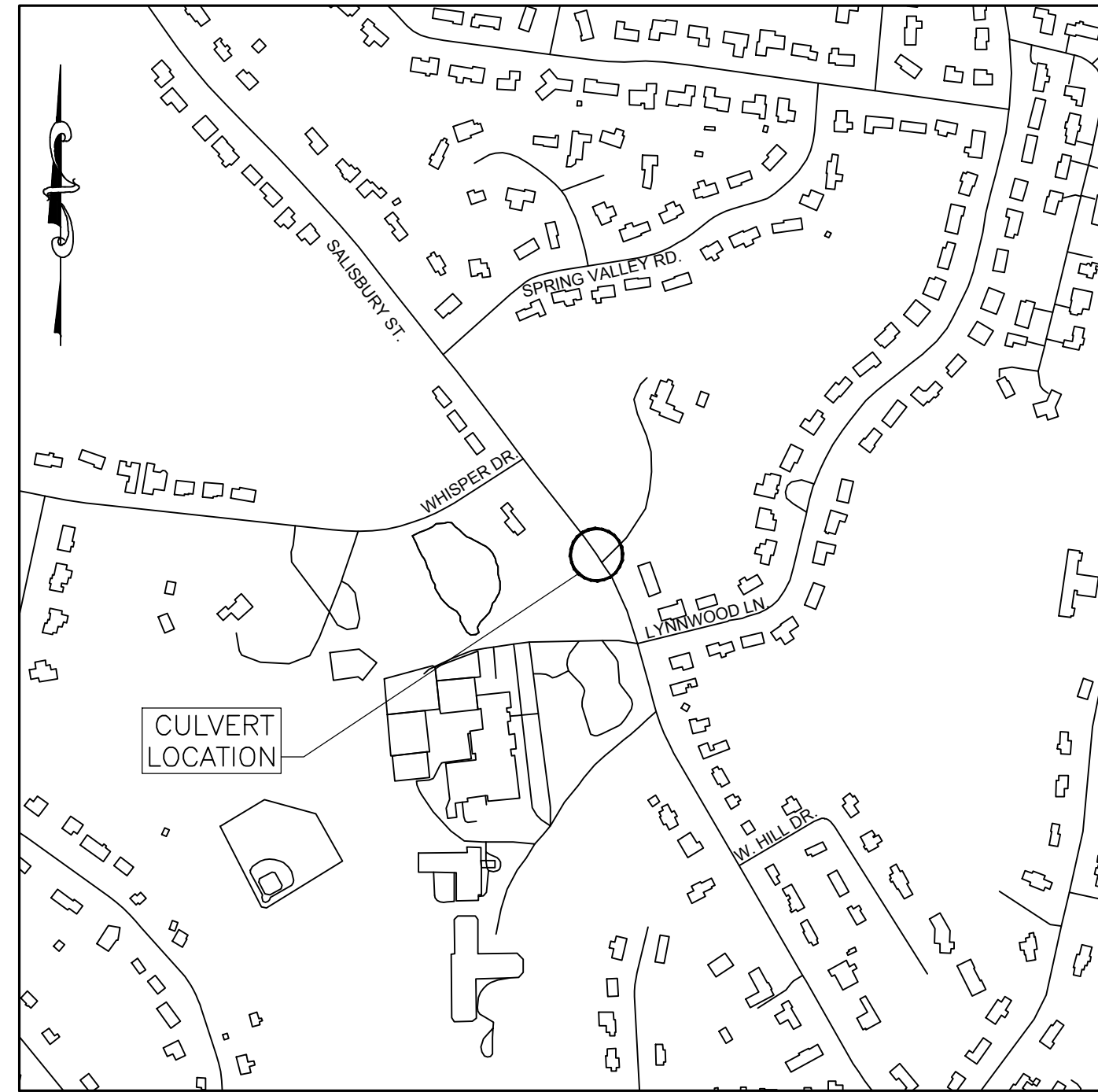


KEY PLAN  
SCALE: 1" = 10'



PROFILE — SALISBURY STREET  
HORIZONTAL SCALE: 1" = 10'  
VERTICAL SCALE: 1" = 2'

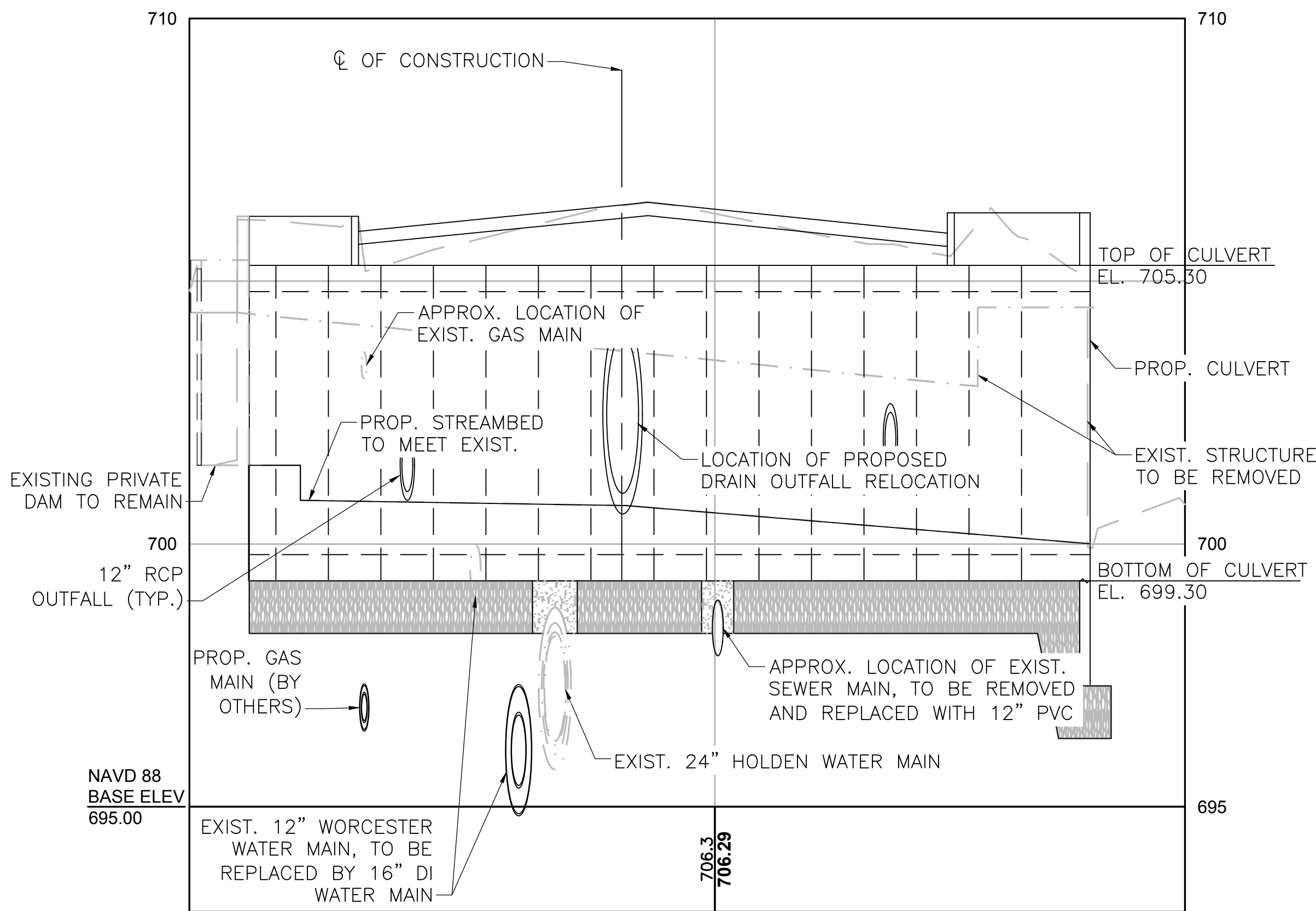
SHEET NUMBER	SHEET TITLE
S-1	KEY PLAN AND PROFILES
S-2	GENERAL NOTES
S-3	BORING LOGS 1
S-4	BORING LOGS 2
S-5	BORING LOGS 3
S-6	GENERAL PLAN
S-7	ELEVATIONS
S-8	LONGITUDINAL SECTION
S-9	CULVERT AND WINGWALL DETAILS



LOCUS  
SCALE: 1" = 500'

ESTIMATED QUANTITIES  
(NOT GUARANTEED)

ITEM	QUANTITY
CLASS "B" ROCK EXCAVATION AND DISPOSAL.....	60 CY
GRAVEL BORROW.....	115 CY
DENSE GRADED CRUSHED STONE.....	40 CY
CRUSHED STONE 3/4 INCH.....	50 CY
CLASS A TRENCH EXCAVATION.....	360 CY
SUPERPAVE 9.5 MM LEVEL 2.....	30 TON
SUPERPAVE 12.5 MM LEVEL 3.....	40 TON
GEOTEXTILE FABRIC FOR PERMANENT EROSION CONTROL.....	1600 SY
NATURAL STREAMBED MATERIAL.....	40 CY
4000 PSI, 1.5 INCH, 565 CEMENT CONCRETE.....	10 CY
4000 PSI, 3/4 INCH, 610 CEMENT CONCRETE.....	10 CY
TEMPORARY CONTROL OF WATER.....	1 LS
PRECAST CONCRETE BOX CULVERT, 4'-0" x 5'-0" , HEADWALLS AND WINGWALLS.....	1 LS



PROFILE — BEAVER BROOK  
HORIZONTAL SCALE: 1" = 10'  
VERTICAL SCALE: 1" = 2'

Project:  
SALISBURY STREET CULVERT  
REPLACEMENT  
WORCESTER, MA 01609

Weston & Sampson  
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No. Date Description

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Seal:

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Date: 7 / 23 / 2025  
Drawn By: BMG  
Reviewed By: RPM  
Approved By: SRB  
W&S Project No.: ENG22-0381  
W&S File No.:

Drawing Title:  
KEY PLAN  
AND PROFILE

Sheet Number:  
S-1

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GENERAL NOTES

DESIGN:

IN ACCORDANCE WITH THE 2020 AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS LRFD BRIDGE DESIGN SPECIFICATIONS FOR HL-93 LOADING.

BENCHMARK:

MAG NAIL SET UP IN UTILITY POLE, ELEVATION 707.10'.

ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.

SURVEY:

ELECTRONIC SURVEY BY WESTON & SAMPSON PE, LS, LA, PC ON DECEMBER 9, 2021. WETLAND FLAGGING WAS PERFORMED BY WESTON & SAMPSON ON APRIL 28, 2022.

SCALES:

SCALES NOTED ON THE PLANS ARE NOT APPLICABLE TO REDUCED SIZE PRINTS. DIVIDE SCALES BY 2 FOR HALF-SIZE PRINTS (A3).

FOUNDATIONS:

FOUNDATIONS MAY BE ALTERED, IF NECESSARY, TO SUIT CONDITIONS ENCOUNTERED DURING CONSTRUCTION, WITH APPROVAL OF THE ENGINEER.

UNSUITABLE MATERIAL:

ALL UNSUITABLE MATERIAL SHALL BE REMOVED WITHIN THE LIMITS OF THE FOUNDATIONS OF THE STRUCTURE, AS DIRECTED BY THE ENGINEER.

CONCRETE:

ALL CONCRETE SHALL BE 5000 PSI HP CONCRETE, EXCEPT AS NOTED BELOW: FOOTINGS SHALL BE 5000 PSI HP EARLY STRENGTH CONCRETE.

REINFORCEMENT:

REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M31 GRADE 60. UNLESS OTHERWISE NOTED ON THE CONSTRUCTION DRAWINGS, ALL BARS SHALL BE LAPPED AS FOLLOWS:

MODIFICATION CONDITION	#4 BARS	#5 BARS	#6 BARS
1. NONE	16"	19"	23"
2. 12" OF CONCRETE BELOW BAR	20"	25"	30"
3. COATED BARS, COVER < 3d <sub>b</sub> , OR CLEAR SPACING < 6d <sub>b</sub>	23"	29"	34"
4. COATED BARS, ALL OTHER CASES	18"	23"	27"
5. CONDITION 2. AND 3.	26"	32"	39"
6. CONDITION 2. AND 4.	24"	30"	36"

ALL OTHER BARS SHALL BE LAPPED AS SHOWN ON THE CONSTRUCTION DRAWINGS.

MEMBRANE WATERPROOFING:

ALL MEMBRANE WATERPROOFING USED ON BRIDGE DECKS SHALL BE MEMBRANE WATERPROOFING FOR BRIDGE DECKS – SPRAY APPLIED.

UTILITES:

LOCATIONS OF EXISTING UTILITES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING UTILITIES FROM DAMAGE.

Project:  
SALISBURY STREET CULVERT  
REPLACEMENT  
WORCESTER, MA 01609



Weston & Sampson

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Consultants:

Revisions:

No.	Date	Description

COA:

Seal:



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Date:

7 / 23 / 2025

Drawn By:

BMG

Reviewed By:

RPM

Approved By:

SRB

W&S Project No.:

ENG22-0381

W&S File No.:

Drawing Title:

GENERAL NOTES



Sheet Number:

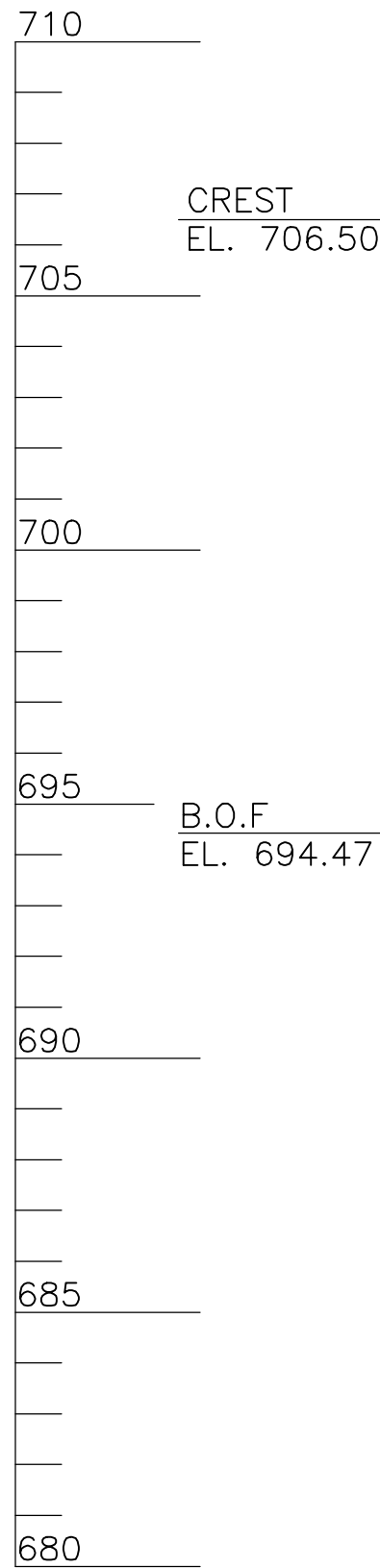
S-2



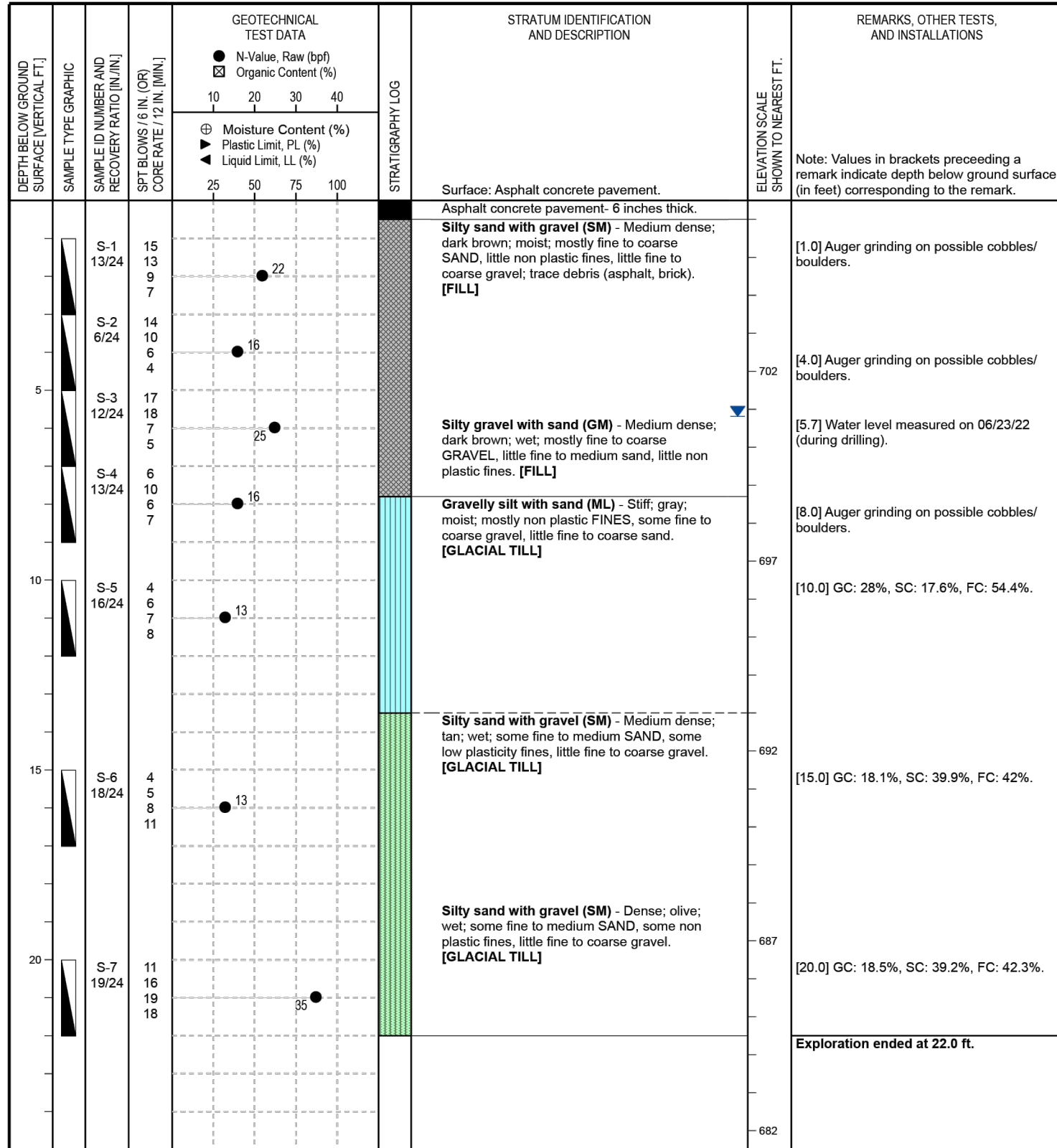
\\w03\landwin\proj\west\borings\msd220381\salisbury street culvert\borings\B-101 LOG.dwg    B-101 LOG.dwg    6/23/2022 1:54:00 PM    salisbury street culvert\borings\B-101 LOG.dwg    6/23/2022 1:54:00 PM

**BORING/PROBE NOTES:**

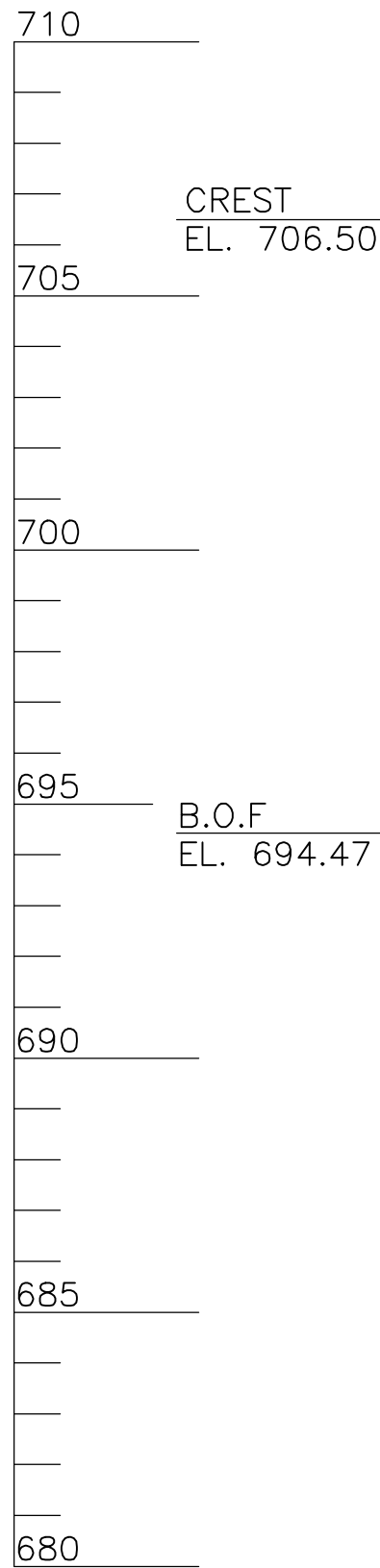
1. LOCATION OF BORING SHOWN ON THE PLAN THUS 
2. LOCATION OF PROBES SHOWN ON THE PLAN THUS  P-1, P-2, ...
3. BORINGS AND PROBES ARE TAKEN FOR PURPOSE OF DESIGN AND SHOW CONDITIONS AT BORING POINTS AND PROBE POINTS ONLY, BUT DO NOT NECESSARILY SHOW THE NATURE OF THE MATERIALS TO BE ENCOUNTERED DURING CONSTRUCTION.
4. WATER LEVELS SHOWN ON THE BORING LOGS WERE OBSERVED AT THE TIME OF TAKING BORINGS AND DO NOT NECESSARILY SHOW THE TRUE GROUND WATER LEVEL.
5. FIGURES IN COLUMNS INDICATE NUMBER OF BLOWS REQUIRED TO DRIVE A 2" I.D. SPLIT SPOON SAMPLER 24" USING A 140 POUND WEIGHT FALLING 30".
6. ALL BORINGS WERE MADE IN JUNE 2022. ALL PROBES WERE MADE IN JUNE 2022.
7. BORINGS AND PROBES WERE MADE BY SEABOARD DRILLING, INC. (649 MEADOW ST. CHICOPEE, MA 01013)
8. THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988 IS USED THROUGHOUT.



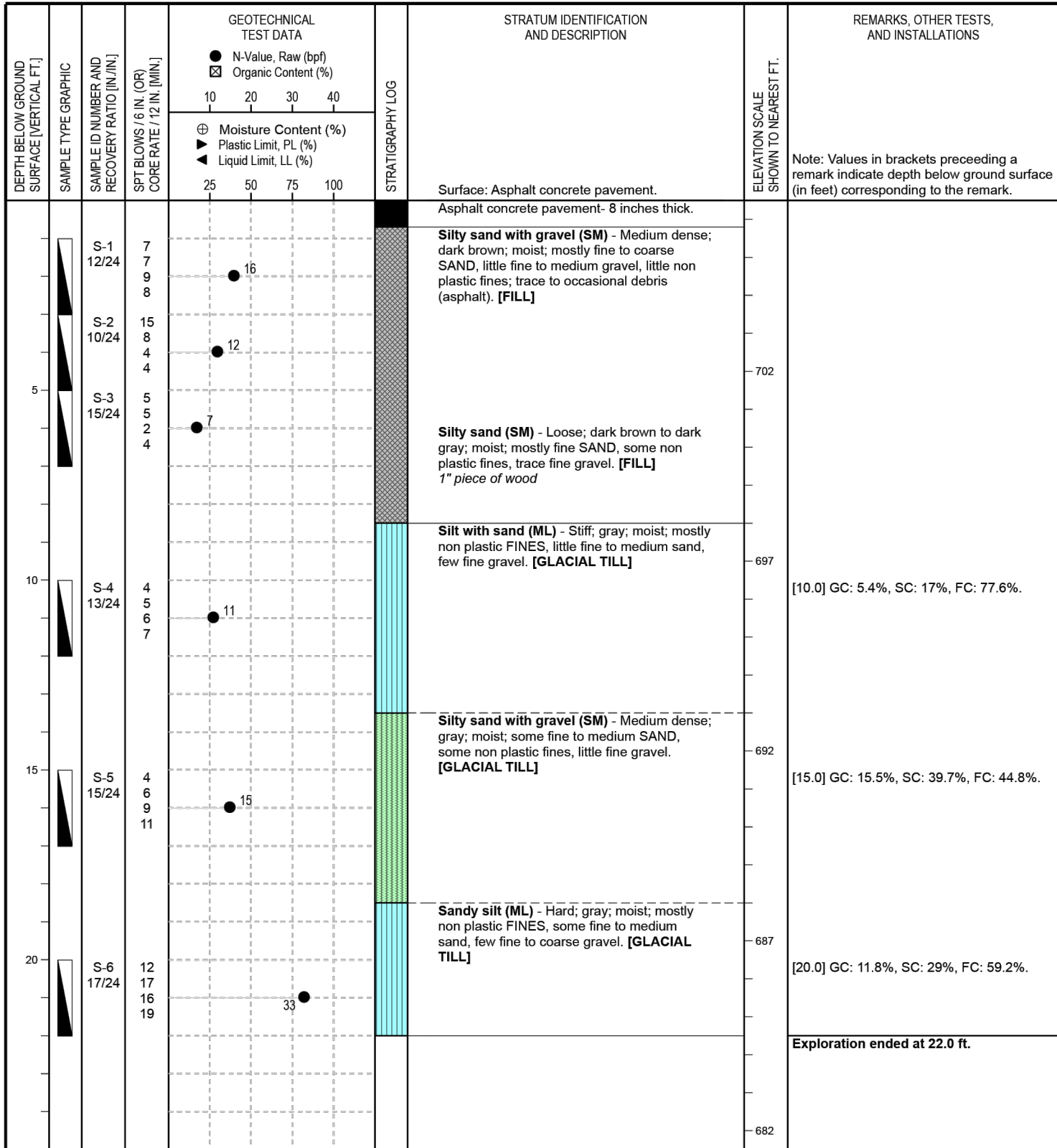
<b>Weston &amp; Sampson</b>		Salisbury Street Culvert Replacement Worcester, MA		<b>BORING ID: B-101</b>	
WSE Project: ENG22-0381 Page 1 of 1					
CONTRACTOR:	Seaboard Drilling, Inc.	BORING LOCATION:	See attached figure	DATE START:	June 23, 2022
FOREMAN:	D. Griffin	ADVANCE METHOD:	Hollow-Stem Auger Drilling	DATE FINISH:	June 23, 2022
LOGGED BY:	J. Westgate, EIT	AUGER DIAMETER:	4-1/4" ID (Stem), 7-5/8" OD (Flights)	GROUND EL:	706.5 ± (NAVD88)
CHECKED BY:	H. Flores, PE	SUPPORT CASING:	N/A	FINAL DEPTH:	22.0 ft.
EQUIPMENT:	Truck Mounted Drill Rig	CORING METHOD:	N/A	GRID COORDS:	N564715.8477 / E7933186.8799
SPT HAMMER:	Automatic (140-lb.)	BACKFILL MATERIAL:	Drill Cuttings and Asphalt Patch	GRID SYSTEM:	NAD83 State Plane (MA)



Refer to the attached index sheets for important information about this log including general notes, legends, and guidance on description methods and procedures.



<b>Weston &amp; Sampson</b>		Salisbury Street Culvert Replacement Worcester, MA		<b>BORING ID: B-102</b>	
WSE Project: ENG22-0381 Page 1 of 1					
CONTRACTOR:	Seaboard Drilling, Inc.	BORING LOCATION:	See attached figure	DATE START:	June 23, 2022
FOREMAN:	D. Griffin	ADVANCE METHOD:	Hollow-Stem Auger Drilling	DATE FINISH:	June 23, 2022
LOGGED BY:	J. Westgate, EIT	AUGER DIAMETER:	4-1/4" ID (Stem), 7-5/8" OD (Flights)	GROUND EL:	706.5 ± (NAVD88)
CHECKED BY:	H. Flores, PE	SUPPORT CASING:	N/A	FINAL DEPTH:	22.0 ft.
EQUIPMENT:	Truck Mounted Drill Rig	CORING METHOD:	N/A	GRID COORDS:	N564715.8477 / E7933186.8799
SPT HAMMER:	Automatic (140-lb.)	BACKFILL MATERIAL:	Drill Cuttings and Asphalt Patch	GRID SYSTEM:	NAD83 State Plane (MA)



Refer to the attached index sheets for important information about this log including general notes, legends, and guidance on description methods and procedures.

Project:  
SALISBURY STREET CULVERT  
REPLACEMENT  
WORCESTER, MA 01609



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7 / 23 / 2025

Drawn By:

BMG

Reviewed By:

RPM

Approved By:

SRB

W&S Project No.:

ENG22-0381

W&S File No.:

Drawing Title:

**BORING LOGS 1**

Sheet Number:

**S-3**







BORING/PROBE NOTES:

1. FOR BORING/PROBE NOTES, SEE SHEET S-3.

Weston & Sampson						Salisbury Street Culvert Replacement Worcester, MA	BORING ID: P-3
WSE Project EN022-0381							Page 1 of 1
<b>CONTRACTOR:</b>		Seaboard Drilling, Inc.		<b>BORING LOCATION:</b>	See attached figure	<b>DATE START:</b>	June 23, 2022
<b>FOREMAN:</b>		D. Griffin		<b>ADVANCE METHOD:</b>	Hollow Stem Auger Drilling	<b>DATE FINISH:</b>	June 23, 2022
<b>LOGGED BY:</b>		J. Westgate, EIT		<b>AUGER DIAMETER:</b>	4.1¼" ID (Stem), 7.5⅝" OD (Flights)	<b>GROUND EL:</b>	706.5 ± (NAVOD88)
<b>CHECKED BY:</b>		H. Flores, PE		<b>SUPPORT CASINO:</b>	N/A	<b>FINAL DEPTH:</b>	2.1 ft. (Release)
<b>EQUIPMENT:</b>		Track Mounted Drill Rig		<b>CORING METHOD:</b>	N/A	<b>GRID COORDS:</b>	N564775 ± / E 2933192 ±
<b>SPT HAMMER:</b>		Automatic (140-lb.)		<b>BACKFILL MATERIAL:</b>	Drill Cuttings and Asphalt Patch	<b>GRID SYSTEM:</b>	NAD83 State Plane (MA)

DEPTH BELOW GROUND SURFACE (VERTICAL FT.)	SAMPLE TYPE (GRABIC)	SAMPLE ID NUMBER AND RECOVERY RATIO (IN IN.)	STRATIGRAPHY LOG	STRATUM IDENTIFICATION AND DESCRIPTION	ELEVATION SCALE DOWN TO NEAREST FT.	REMARKS, OTHER TESTS, AND INSTALLATIONS
				Surface: Asphalt concrete pavement. Asphalt concrete pavement - 8 inches thick.		Note: Values in brackets preceding a remark indicate depth below ground surface (in feet) corresponding to the remark.
				Refer to B-102 for soil conditions.		
					-702	
					-697	
					-692	
					-687	
					-682	

Exploration terminated at 2.1 ft on possible culvert wall

Refer to the attached index sheets for important information about this log including general notes, legends, and guidance on description methods and procedures.

<div style="display: inline-block; vertical-align: middle; margin-left: 10px;"> <b>Salisbury Street Culvert Replacement</b>  Worcester, MA </div> <div style="float: right; text-align: right;"> <b>BORING ID: P-4</b>  Page 1 of 1 </div>	
<b>WSE Project:</b> ENG22-0381	
<b>CONTRACTOR:</b> Seaboard Drilling, Inc. <b>FOREMAN:</b> D. Griffin <b>LOGGED BY:</b> J. Westgate, EIT <b>CHECKED BY:</b> H. Flores, PE <b>EQUIPMENT:</b> Truck Mounted Drill Rig <b>SPT HAMMER:</b> Automatic (140-lb.)	<b>BORING LOCATION:</b> See attached figure <b>ADVANCE METHOD:</b> Hollow Stem Auger Drilling <b>AUGER DIAMETER:</b> 4.14" ID (Stem), 7.58" OD (Flights) <b>SUPPORT CASING:</b> N/A <b>CORING METHOD:</b> N/A <b>BACKFILL MATERIAL:</b> Drill Cuttings and Asphalt Patch
<b>DATE START:</b> June 23, 2022 <b>DATE FINISH:</b> June 23, 2022 <b>GROUND EL:</b> 706.5 ± (NAVD83) <b>FINAL DEPTH:</b> 119.8 (Relief) <b>GRID COORDS:</b> N564773 ± / E 2933194 ± <b>GRID SYSTEM:</b> NAD83 State Plane (MA)	

DEPTH TO TOP OF GROUND SURFACE (VERTICAL FT.)	SAMPLE TYPE (BORING)	SPT PENETRATION (BLows)	RECOVERED (IN/IN)	STRATIGRAPHY LOG	STRATUM IDENTIFICATION AND DESCRIPTION	ELEVATION SCALE 5'-DOWN TO NEAREST FT.	REMARKS, OTHER TESTS, AND INSTALLATIONS
					Surface: Asphalt concrete pavement.		Note: Values in brackets preceding a remark indicate depth below ground surface (in feet) corresponding to the remark.  <b>Exploration terminated at 1.0 ft on possible culvert wall</b>
					Asphalt concrete pavement- 7 inches thick.		
					Refer to B-102 for soil conditions.		
5						-702	
10						-697	
15						-692	
20						-687	
						-682	


Refer to the attached index sheets for important information about this log including general notes, legends, and guidance on description methods and procedures.

Consultants:

[illegible]

COA:

Seal:

A circular professional engineer seal for the Commonwealth of Massachusetts. The outer ring contains the text "COMMONWEALTH OF MASSACHUSETTS" at the top and "REGISTERED PROFESSIONAL ENGINEER" at the bottom. The center of the seal contains the name "SCOTT R. BRUSO", the title "STRUCTURAL", and the license number "No. 48061".

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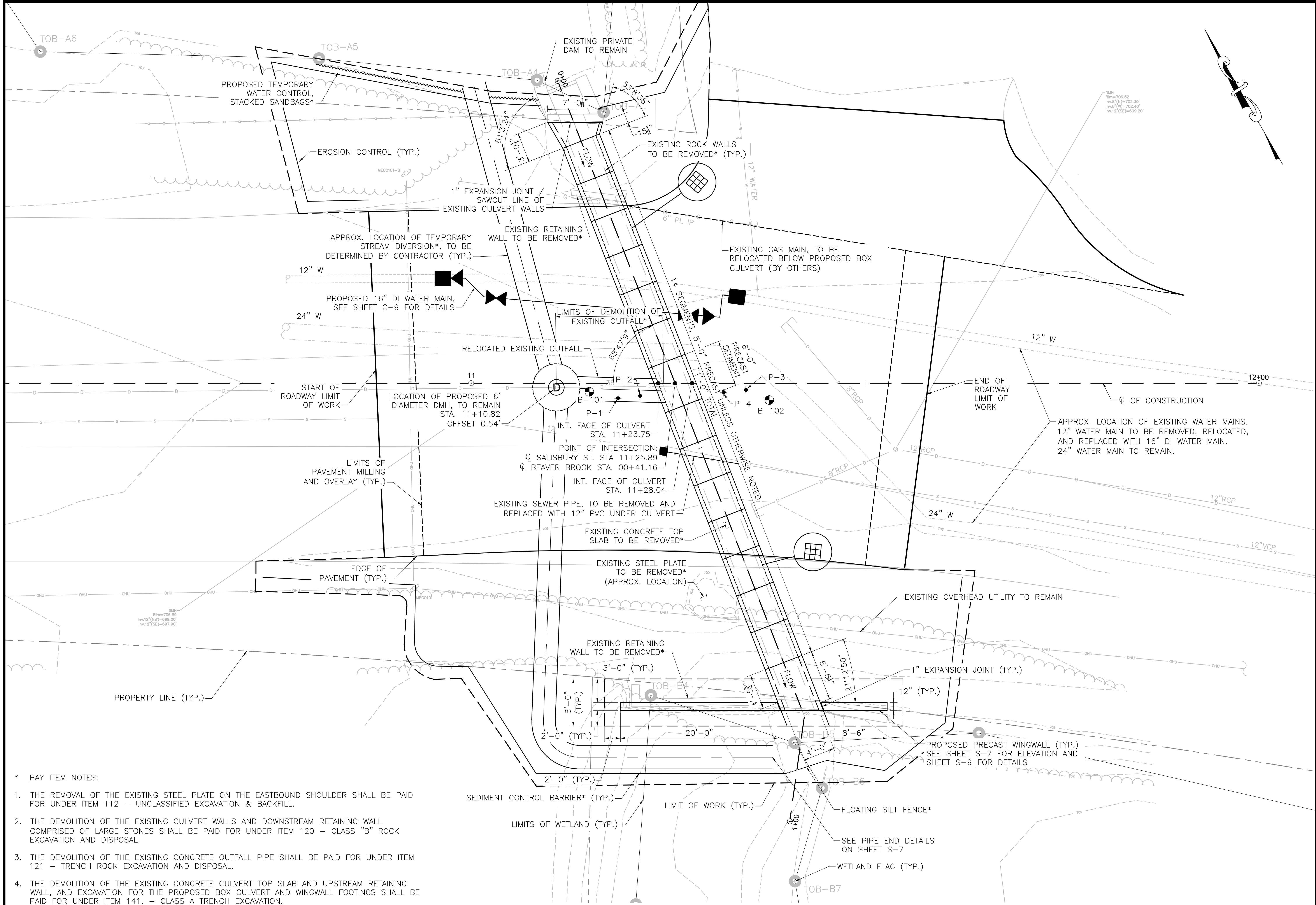
Scale:	NO SCALE

Date:	7 / 23 / 2025
Drawn By:	BMG
Reviewed By:	RPM
Approved By:	SRB
W&S Project No.:	ENG22-0381
W&S File No.:	

Drawing Title:

BORING LOGS 3





\* PAY ITEM NOTES:

1. THE REMOVAL OF THE EXISTING STEEL PLATE ON THE EASTBOUND SHOULDER SHALL BE PAID FOR UNDER ITEM 112 - UNCLASSIFIED EXCAVATION & BACKFILL.
2. THE DEMOLITION OF THE EXISTING CULVERT WALLS AND DOWNSTREAM RETAINING WALL COMPRISED OF LARGE STONES SHALL BE PAID FOR UNDER ITEM 120 - CLASS "B" ROCK EXCAVATION AND DISPOSAL.
3. THE DEMOLITION OF THE EXISTING CONCRETE OUTFALL PIPE SHALL BE PAID FOR UNDER ITEM 121 - TRENCH ROCK EXCAVATION AND DISPOSAL.
4. THE DEMOLITION OF THE EXISTING CONCRETE CULVERT TOP SLAB AND UPSTREAM RETAINING WALL, AND EXCAVATION FOR THE PROPOSED BOX CULVERT AND WINGWALL FOOTINGS SHALL BE PAID FOR UNDER ITEM 141. - CLASS A TRENCH EXCAVATION.
5. THE SEDIMENT CONTROL BARRIER AND FLOATING SILT FENCE SHALL BOTH BE PAID FOR UNDER ITEM 171 - INSTALLATION AND MAINTENANCE OF EROSION CONTROLS.
6. THE TEMPORARY STREAM DIVERSION PIPE AND STACKED SANDBAGS SHALL BOTH BE PAID FOR UNDER ITEM 991.1 - TEMPORARY CONTROL OF WATER.

GENERAL PLAN

SCALE:  $\frac{3}{16}" = 1'-0"$

Project:  
SALISBURY STREET CULVERT  
REPLACEMENT  
WORCESTER, MA 01609



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Consultants:

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Seal:



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Reviewed By: RPM

Approved By: SRB

W&S Project No.: ENG22-0381

W&S File No.:

Drawing Title:

GENERAL  
PLAN

Sheet Number:

S-6











