

# LOCATION MAP SCALE: 1" = 5000'

**GENERAL NOTES** 

**EXISTING CONDITIONS** 

**BORING PLAN AND LOGS** 

SIDEWALK RAMP DETAILS

MISCELLANEOUS DETAILS

CITY OF NEW BRITAIN DETAILS

INTERSECTION GRADING PLAN

MCKINLEY DRIVE ROADWAY PLAN

WATER HANDLING DETAILS PLAN

MCKINLEY DRIVE ROADWAY PROFILE

DETOUR PLAN AND MAINTENANCE AND PROTECTION OF TRAFFIC

STRUCTURAL GENERAL NOTES, PLANS, AND ELEVATIONS

TYPICAL SECTIONS

**CROSS-SECTIONS** 

SHEET NAME SHEET TITLE

C001

C002 - C003

C004

C005

C006 - C008

C009

C010

C011

C100 - C101

C200 - C201

C300

C400

C600 - C615

S100-S102

CONTENTS

SHEET NO.

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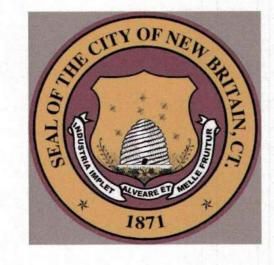
18-33

34-36

# CITY OF NEW BRITAIN OVERLOOK AVENUE / MCKINLEY DRIVE DRAINAGE IMPROVEMENTS PHASE 2

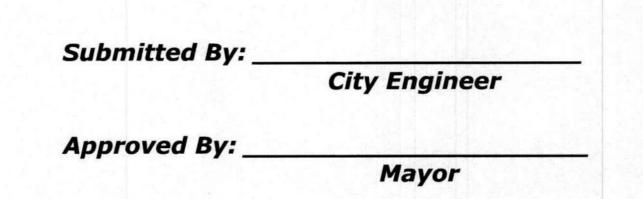
**JULY 2024** 

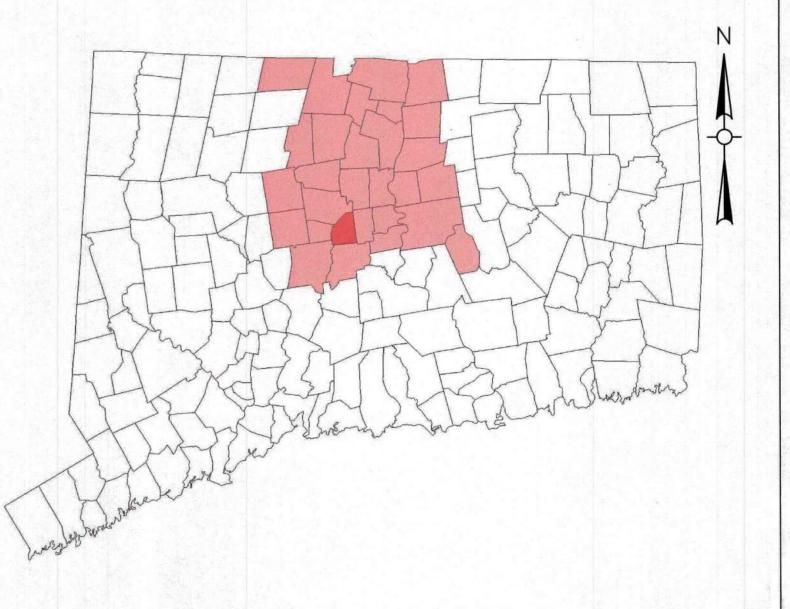
# FINAL DESIGN BID NO. 4158



ERIN E. STEWART MAYOR

MARK E. MORIARTY, P.E. PUBLIC WORKS DIRECTOR





#### NOT TO SCALE

2020 CONNECTICUT DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FORM 818 AND SUPPLEMENTAL SPECIFICATIONS JULY 2023

CITY OF NEW BRITAIN
STANDARD SPECIFICATIONS FOR MUNICIPAL
CONSTRUCTION
MAY 2008, REVISED JULY 2014

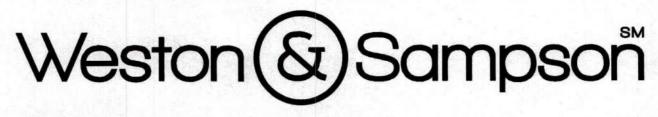
SURVEY BY:
WESTON & SAMPSON ENGINEERS, INC.
OCTOBER 2019
VERTICAL DATUM - NAVD88
HORIZONTAL DATUM - NAD83

DESIGNED BY:
WESTON & SAMPSON ENGINEERS, INC.
712 BROOK STREET
ROCKY HILL, CT 06067



MICHAEL J. JOYCE, P.E. CT. LIC. NO. 21459

PREPARED BY:



712 Brook Street, Rocky Hill, CT 06067 860.513.1473 800.SAMPSON www.westonandsampson.com

#### **GENERAL NOTES:**

- 1. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SHOWN ON THE DRAWINGS TO SCALE OR TO THEIR ACTUAL DIMENSIONS OR LOCATION. COORDINATE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
- 2. DO NOT RELY SOLELY ON ELECTRONIC VERSIONS OF DRAWINGS SPECIFICATIONS, AND DATA FILES THAT ARE PROVIDED BY THE ENGINEER FIELD VERIFY LOCATION OF PROJECT FEATURES.
- 3. FLUSHED WHERE INDICATED ON THE PLANS AND SHALL BE PAID FOR BY CLEAN EXISTING DRAINAGE SYSTEM.
- 4. SEDIMENT AND EROSION CONTROL MEASURES AS DEPICTED ON THESE PLANS AND DESCRIBED WITHIN THE SEDIMENT AND EROSION CONTROL NARRATIVE SHALL BE IMPLEMENTED AND MAINTAINED UNTIL PERMANENT COVER AND STABILIZATION IS ESTABLISHED.
- 5. THE CONTRACTOR MUST MAINTAIN (REPAIR/REPLACE WHEN NECESSARY) THE SEDIMENTATIONCONTROL UNTIL ALL CONSTRUCTION ACTIVITY IS COMPLETED AND ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.
- 6. ALL DISTURBED AREAS ARE TO BE STABILIZED WITH A MINIMUM OF 4 INCHES OF TOPSOIL AND SEEDED WITH GRASS REFER TO SPECIAL PROVISIONS FOR SEEDING SCHEDULE.
- 7. THE REMOVAL AND RESETTING OF FENCES, STONEWALLS, AND ORNAMENTAL AND UTILITARIAN DOMESTIC ACCESSORIES WITHIN THE HIGHWAY LIMITS AND THE REMOVAL AND RESETTING OF EXISTING MAILBOXES TO BE PAID FOR UNDER THE ITEM "CLEARING AND GRUBBING" UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- 8. THE CONTRACTOR SHOULD NOTE THAT ALL PRIVATE AND COMMERCIAL MAILBOXES, SIGNS, ETC. ARE TO BE RELOCATED USING EXISTING SUPPORTS. WHERE EXISTING SUPPORTS ARE NOT SUITABLE FOR RELOCATION, THE CONTRACTOR SHALL PROVIDE A SIMILAR APPLICATION AT NO ADDITIONAL EXPENSE.IRON PINS OR MONUMENTS DISTURBED BY CONSTRUCTION SHALL BE RESET BY A CT LICENSED SURVEYOR
- 9. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROL MEASURES, CLEAN SEDIMENT AND DEBRIS FROM TEMPORARY MEASURES AND FROM PERMANENT STORM DRAIN AND SANITARY SEWER SYSTEMS.

#### UTILITIES:

- . THE CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" AT 1-800-922-4455 AND THE CITY AT LEAST 48 HOURS, SATURDAYS, SUNDAYS, AND HOLIDAYS EXCLUDED, PRIOR TO EXCAVATING AT ANY LOCATION. A COPY OF THE CBYD PROJECT REFERENCE NUMBER(S) SHALL BE GIVEN TO THE OWNER PRIOR TO EXCAVATION.
- 2. INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE, AND WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. THE LOCATION OF ALL EXISTING UTILITIES SHOULD BE CONFIRMED PRIOR TO BEGINNING CONSTRUCTION. CALL "CALL BEFORE YOU DIG" (811 OR GO TO WWW.CBYD.COM). ALL UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR HORIZONTAL CONTROL SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION. THE ENGINEER ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS OF UTILITIES SHOWN ON THE PLAN.
- 3. TEST PITS TO LOCATE EXISTING UTILITIES MAY BE ORDERED BY THE ENGINEER.
- 4. TERMINATE EXISTING UTILITIES IN CONFORMANCE WITH LOCAL, STATE AND

- INDIVIDUAL UTILITY COMPANY STANDARD SPECIFICATIONS AND DETAILS.
  COORDINATE UTILITY SERVICE DISCONNECTS WITH UTILITY REPRESENTATIVES.
- 5. THE CONTRACTOR SHALL COORDINATE THE WORK AND WORK SCHEDULE WITH UTILITY COMPANIES. PROVIDE ADEQUATE NOTICE TO UTILITIES TO PREVENT DELAYS IN CONSTRUCTION.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESETTING OF FRAMES, GRATES, GATES, VALVE BOXES ETC., WHICH SHALL BE DONE IN ACCORDANCE WITH INDIVIDUAL UTILITY COMPANY REQUIREMENTS AND THE METHODS OUTLINED IN THE FOLLOWING NOTES.
- 7. RIM ELEVATIONS FOR MANHOLES, VALVE COVERS, GAS AND WATER GATES AND PULL BOXES, AND OTHER STRUCTURES SHALL BE SET OR RESET FLUSH TO FINISH GRADE. SANITARY FRAME AND COVERS SHALL BE REPLACED IF REQUIRED BY THE ENGINEER.

#### **REGULATORY REQUIREMENTS:**

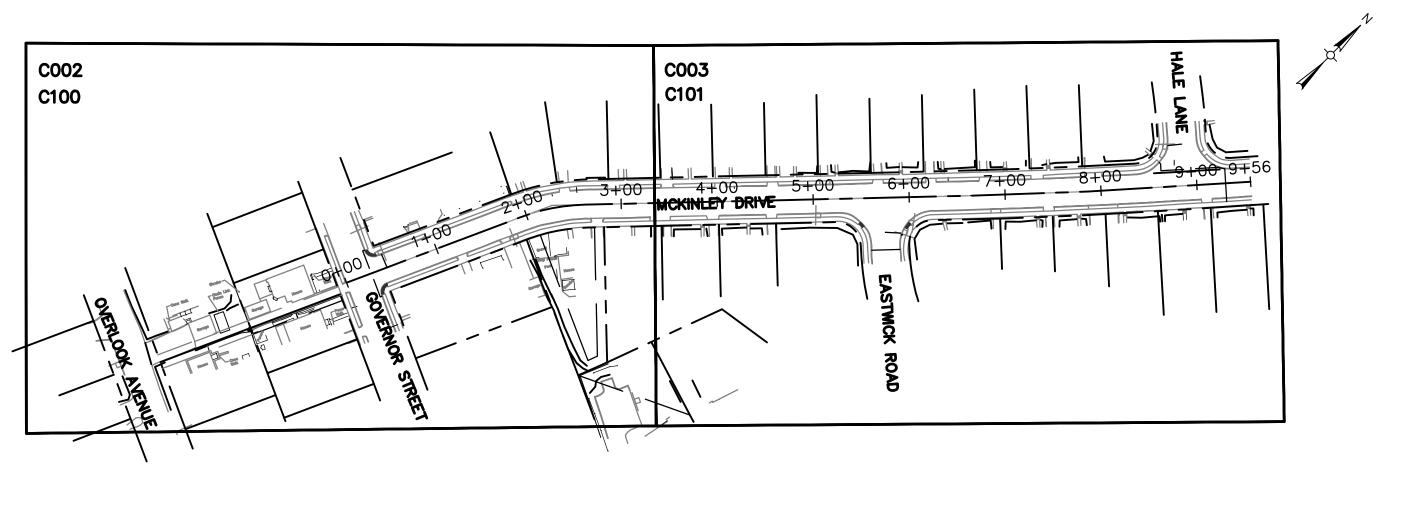
- WITHIN LOCAL RIGHTS-OF-WAY, PERFORM THE WORK IN ACCORDANCE WITH LOCAL MUNICIPAL STANDARDS.
- 2. WITHIN STATE RIGHTS-OF-WAY, PERFORM THE WORK IN ACCORDANCE WITH THE LATEST EDITION OF THE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS AND ISSUED REVISIONS/SUPPLEMENTS (FORM 818).
- 3. PROVIDE TRAFFIC SIGNAGE AND PAVEMENT MARKINGS IN CONFORMANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 4. BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY, PERFORM CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
- 5. DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND LOCAL REQUIREMENTS.

#### **SURVEY NOTES:**

- 1. BASE PLAN HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THOUGH 20-300b-20 AND "THE STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS PREPARED AND ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.
- A. THE TYPE OF SURVEY IS A TOPOGRAPHIC SURVEY.
- B. THERE IS NO BOUNDARY DETERMINATION/OPINION.
- C. THIS SURVEY CONFORMS TO THE FOLLOWING CLASSES: HORIZONTAL CLASS A-2, VERTICAL CLASS V-2, AND TOPOGRAPHIC CLASS T-2.
- 2. NORTH AS DEPICTED HEREON REFERS TO THE CONNECTICUT COORDINATE SYSTEM (NAD 1983) AS DERIVED USING GNSS SURVEY MEHTODS IN OCTOBER 2019.
- 3. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN DATUM OF 1988 (NAVD 88) ESTABLISHED USING GNSS SURVEY MEHTODS IN OCTOBER 2019.
- 4. UNDERGROUND UTILITY STRUCTURE AND FACILITY LOCATIONS DEPICTED HERON HAVE BEEN COMPILED, IN PART, FROM RECORD MAPPING AND OTHER DATA SUPPLIED BY THE RESPECTIVE UTILITY COMPANIES, GOVERNMENTAL AGENCIES AND/OR OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE THE SITE, THE EXISTENCE OF WHICH ARE UNKNOWN TO WESTON & SAMPSON. THE EXISTENCE SIZE AND LOCATION OF ALL SUCH FEATURES MUST BE DETERMINED AND VERIFIED IN THE FIELD BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION, CALL BEFORE YOU DIG 811 OR 1-800-922-4455.

		LEG	END		
DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED
SANITARY SEWER	8" PVC SAN.	8" PVC SAN.	FENCE	×	×
WATER MAIN	w	w	INDIVIDUAL DECIDUOUS TREE	0	0
STORM DRAIN	—— <i>ST</i> ——		INDIVIDUAL EVERGREEN TREE		<u> </u>
ELECTRIC	—— <i>E</i> ——	——Е——	TREE LINE	~~~~	~~~~
TELEPHONE		T	BUSH	(3)	
SANITARY SEWER LATERAL		ss	STUMP	6	
WATER SERVICE	—— WS——	——WS——	SURVEY MARKER	⊡	
SANITARY SEWER MANHOLE		•	PROPERTY LINE		
STORM DRAIN MANHOLE	•	© DMH	EASEMENT LINE		
ELECTRICAL MANHOLE	E	© EMH	SPOT ELEVATIONS	× 100.2	×101.5
TELEPHONE MANHOLE	T	<b>① ТМН</b>	CONTOUR LINES	— — 56 — — —	<del></del> 56 <del></del>
CATCH BASIN			DEPRESSION CONTOUR LINES	-  T -	<del></del>
HYDRANT	X	$\ddot{x}$	HOUSE NUMBER	#35	
WATER GATE	0	∘ WG	FLOOR ELEVATION	FL=56.7	
SPRINKLER HEAD	Δ		SILL ELEVATION	S=56.7	
UTILITY POLE	P	රි	WETLAND		
GUY POLE	©	ල	WETLAND FLAGS	• WF#	
GUY WIRE	<b>&gt;</b>	<b>&gt;</b> —	GRASS PAVERS	<del>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</del>	***************************************
OVERHEAD WIRE			GUIDE RAIL	© 0 0	← MBR →
LIGHT POST	$\Rightarrow$	×	POST	0	
EDGE OF PAVEMENT			SIGN		<del>-</del> o-
EDGE OF UNPAVED ROAD			BENCH MARK	$\triangle$	
SAFETY EDGE			TEST PIT	TP <b>⊕</b> 1	<b>□</b> TP−1
BERM			BORING	<b>⊕</b> B−1	
SIDEWALK	CONC. WALK	CONC. WALK	DRAINAGE DITCH / SWALE	=::=	=::=
BOULDER	↔		MAILBOX	G	
STONE WALL	000000000	~~~~~~	FENCE	x	
RETAINING WALL	RET WALL	RET WALL			

ITEMS SHOWN IN THE LEGEND MAY NOT BE PRESENT IN THESE PLANS



INDEX PLAN
SCALE 1"=100'

#### FLOOD CONTINGENCY PLAN:

THE NEIGHBORHOOD AND WORK AREA ARE SUBJECT TO FREQUENT FLASH FLOODING. SEE FLASH FLOOD CONTINGENCY NARRATIVE AND EMERGENCY CONTACT INFORMATION BELOW.

EMERGENCY PHONE NUMBERS: THE FOLLOWING IS A PARTIAL LIST OF EMERGENCY TELEPHONE NUMBERS.

ADDITIONAL NUMBERS WILL BE ADDED AS THE PROJECT PROGRESSES.

EMERGENCY: 9-1-1

NATIONAL WEATHER SERVICE: https://forecast.weather.gov/and https://www.weather.gov/

NEW BRITAIN ENGINEERING DEPARTMENT: (860) 826-3372 NEW BRITAIN FIRE DEPARTMENT: (860) 826-2614

NEW BRITAIN POLICE DEPARTMENT: (860) 826-2014

THE CONTRACTOR AND/OR INSPECTOR WILL BE RESPONSIBLE FOR THE FOLLOWING:

THE NATIONAL WEATHER SERVICE (NWS) WEBSITE (WWW.ERH.NOAA.GOV) WILL BE CONSULTED A MINIMUM OF ONCE PER WEEK DURING CONSTRUCTION ACTIVITIES TO KEEP APPRISED OF ANTICIPATED OR PREDICTED WEATHER EVENTS THAT COULD PRODUCE FLASH FLOOD CONDITIONS. PARTICULAR ATTENTION TO EXCAVATION, HANDLING WATER AND TEMPORARY EARTH RETAINING CONDITIONS WILL BE REQUIRED WHEN THE NWS PREDICTS RAINFALL IN EXCESS OF 3.3 INCHES PER 24—HOUR PERIOD (TWO—YEAR STORM EVENT). THE CONTRACTOR SHALL NOT BE PERMITTED TO MAINTAIN OPEN EXCAVATION AREAS LONGER THAN 100 LINEAR FEET AT ANY TIME. THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT A STAGE CONSTRUCTION/HANDLING WATER PLAN FOR THE LOCATIONS WHERE THE PROPOSED BOX CULVERT WILL BE CONNECTED TO THE EXISTING DRAINAGE SYSTEM.

THE INSPECTOR WILL DECLARE "EMERGENCY CONDITIONS" UNDER THE FOLLOWING CIRCUMSTANCES:

1. THE NWS PREDICTS A HURRICANE OR OTHER SEVERE STORM EVENT SUCH AS RAINFALL IN EXCESS OF 3.3 INCHES PER 24—HOUR PERIOD.

2. THE NWS ISSUES A "FLOOD WATCH" FOR HARTFORD COUNTY.

3. AT THE DIRECTION OF THE CITY WHEN LOCALIZED FLOODING IS EXPECTED WITHOUT AN ISSUED FLOOD WATCH.

IMMEDIATELY FOLLOWING THE DECLARATION OF EMERGENCY CONDITIONS, THE INSPECTOR WILL NOTIFY THE CONTRACTOR AND THE CITY. ALL CONSTRUCTION EQUIPMENT AND MATERIAL BEING TEMPORARILY STORED IN THE WORK AREA WILL BE RELOCATED TO AN EQUIPMENT STAGING AREA AT A LOCATION IDENTIFIED BY THE

CONSTRUCTION ACTIVITIES WILL RESUME ONLY WHEN FLOODING CONDITIONS HAVE CEASED, ANY EROSION OR TRENCH DETERIORATION HAS BEEN REPAIRED, AND ANY HANDLING WATER OPERATIONS ARE RESTORED. PRIOR TO REINITIATING CONSTRUCTION ACTIVITIES, THE INSPECTOR SHALL NOTIFY THE CITY.

	ABBREV	IATIONS	
A B B B B C C C C C C C C D D D D E E E E E E E E	ASBESTOS CEMENT PIPE BITUMINOUS CONCRETE, BOTTOM OF CURB BITUMINOUS BUILDING BENCH MARK CABLE TELEVISION CATCH BASIN CONCRETE CURB CAST IRON CENTERLINE CORRUGATED METAL PIPE CONCRETE CONTROL POINT CUBIC FEET CUBIC YARD DROP INLET, DUCTILE IRON DIAMETER DRAIN MANHOLE DRIVEWAY ELECTRIC, EAST EACH ELEVATION EDGE OF PAVEMENT EACH WAY EXISTING FEET, FOOT NATURAL GAS GALVANIZED GRANITE CURB HIGH HOUSE CONNECTION HAND HOLE HORIZONTAL HIGH PRESSURE FIRE HYDRANT	ID IP LS X MB CH MINS OR PE VC P VM C T S S S S S S T T T T C Y P V C P S S S S S S S S S S S S S S S S S S	MANHOLE MINIMUM MISCELLANEOUS NORTH NOT FOUND NUMBER POLYETHYLENE PROPERTY LINE POLYVINYL CHLORIDE PROPOSED PAVEMENT REINFORCED CONCRETE PIPE RIGHT-OF-WAY SEWER, SOUTH SQUARE FEET SPECIFICATIONS
INV	INVERT		

CITY OF NEW BRITAIN
OVERLOOK AVENUE / MCKINLEY
DRIVE DRAINAGE IMPROVEMENTS
PHASE 2
BID NO. 4158



Weston & Sampson

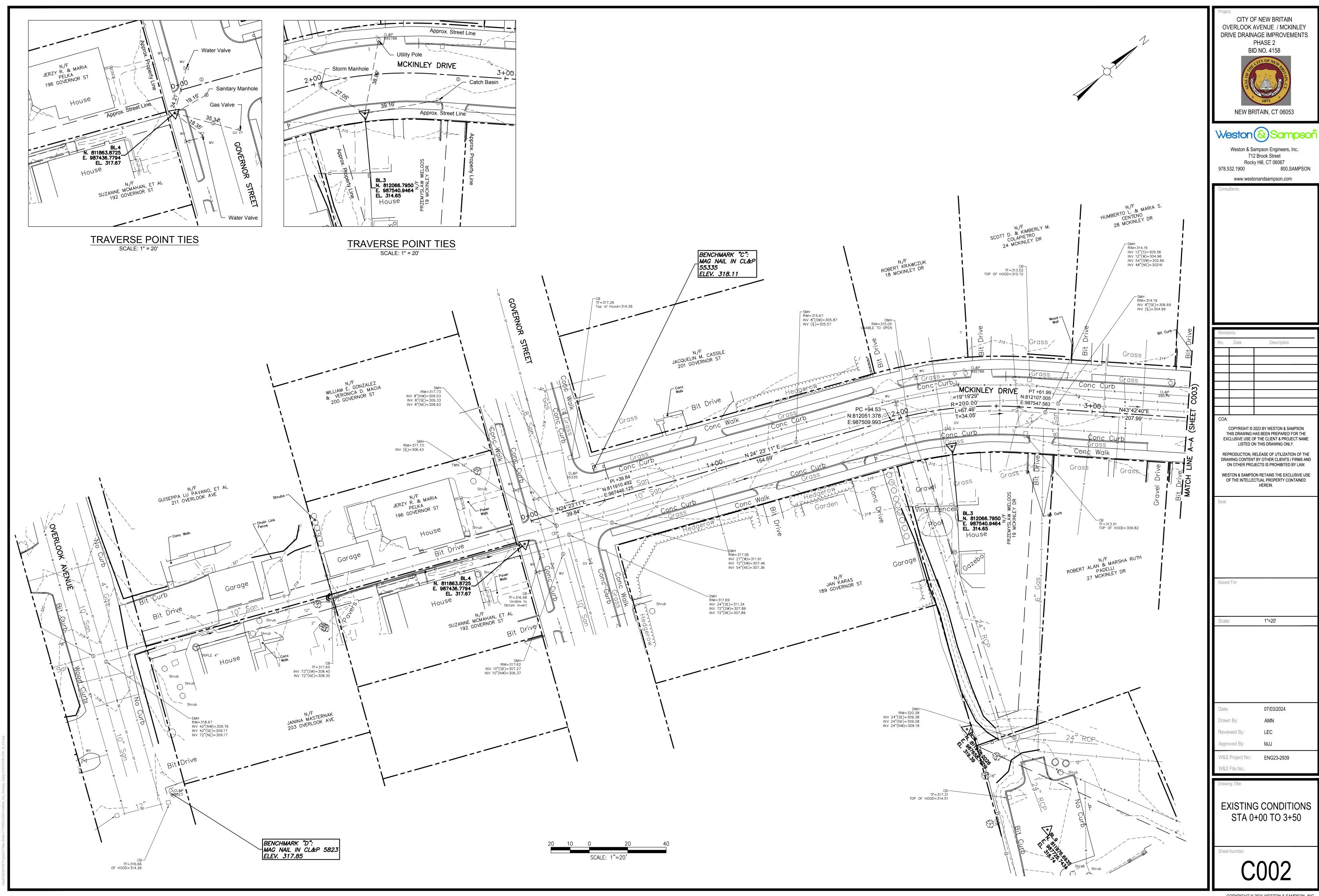
Weston & Sampson Engineers, Inc.
712 Brook Street
Rocky Hill, CT 06067
978.532.1900 800.SAMPSO

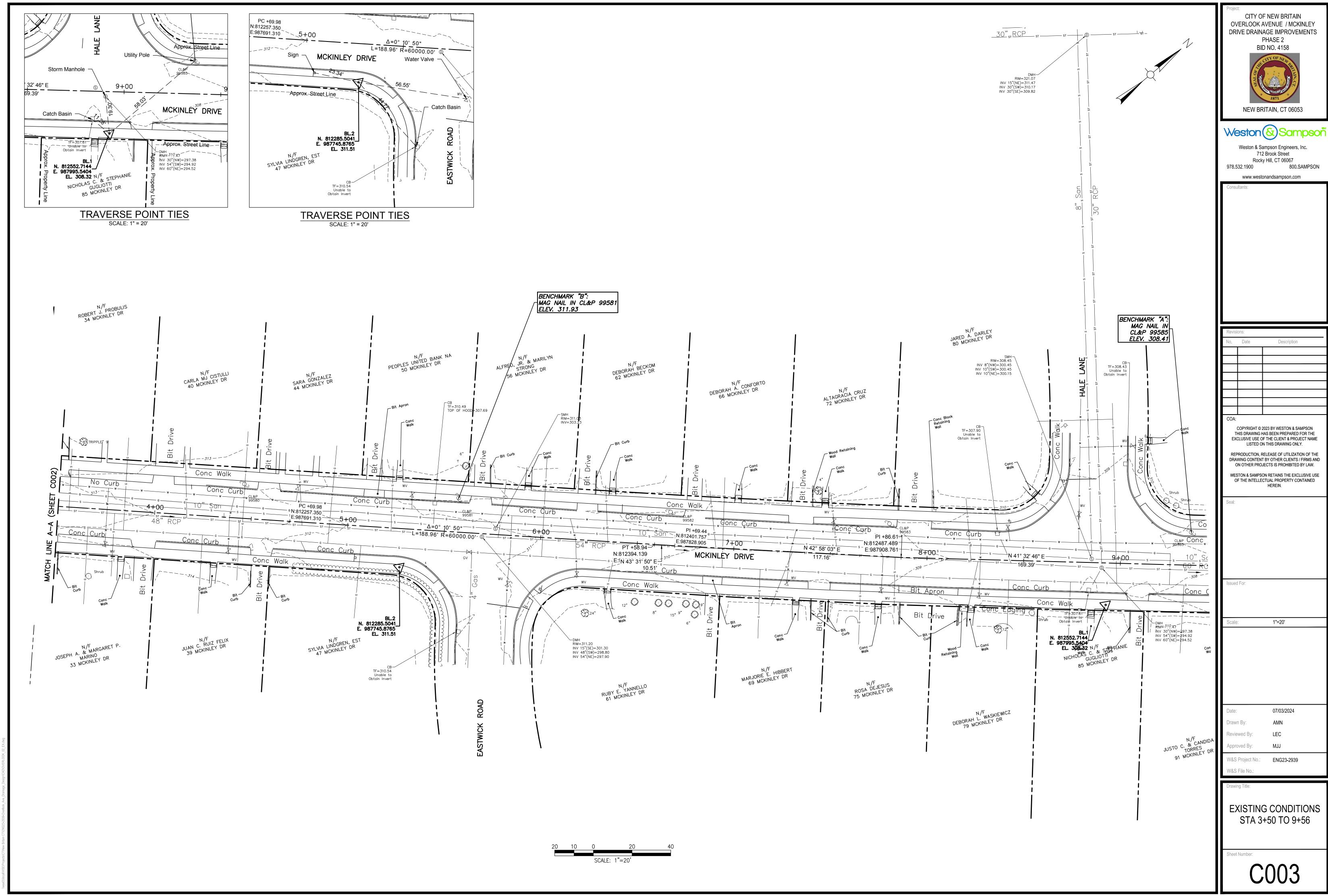
www.westonandsampson.com

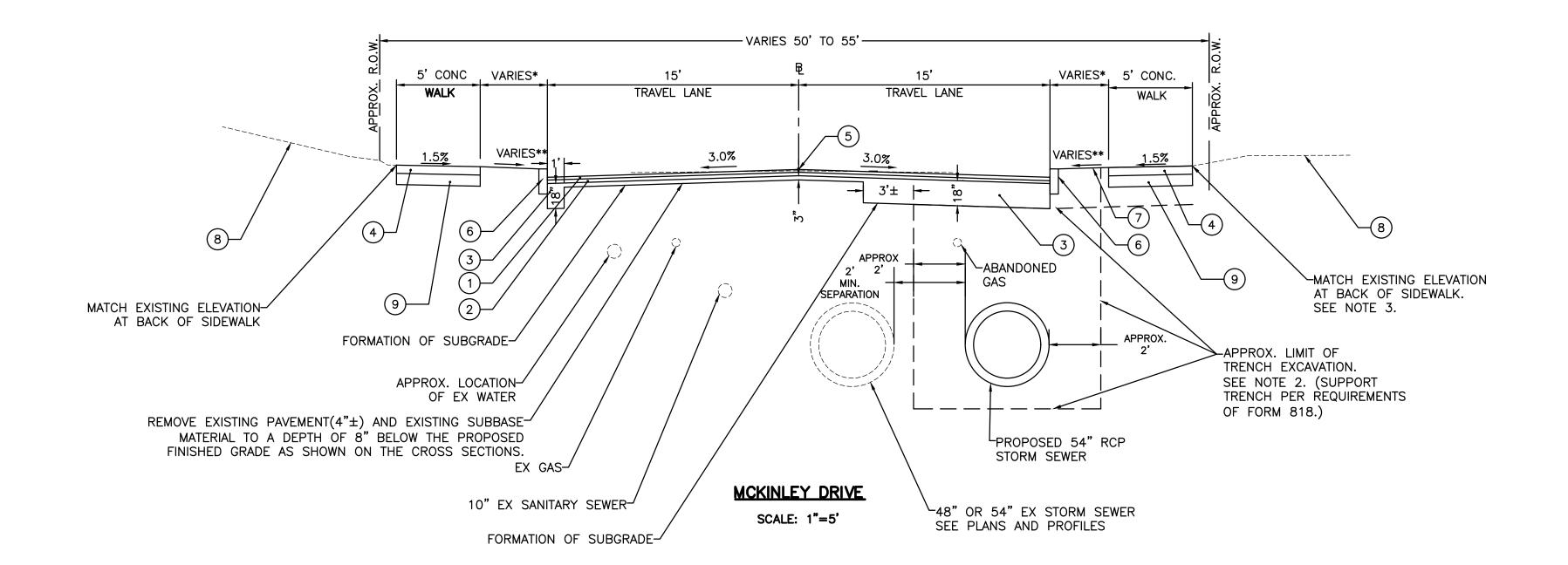
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Drawi	n By:	AMN	
Revie	wed By:	LEC	
	oved By:	MJJ	
	,		

GENERAL NOTES
LEGEND

W&S Project No.: ENG23-2939







#### <u>LEGEND</u>

(1) - 2 1/2" HMA S0.5 TRAFFIC LEVEL 2

(2) - 2 1/2" HMA S0.5 TRAFFIC LEVEL 2

(3) – PROCESSED AGGREGATE BASE

4 - CONCRETE SIDEWALK

(5) - POINT OF APPLICATION OF GRADE

6 - CONCRETE CURB

(7) - 4" TOPSOIL AND TURF ESTABLISHMENT

8 - EXISTING GRADE

9 - 6" PROCESSED AGGREGATE BASE

\*RANGES FROM 2.25' TO 4.0' \*\*RANGES FROM 0.5% TO 10.0%

#### NOTE:

- ALL WORK SHALL OCCUR WITHIN R.O.W. EXCEPT WHERE ILLUSTRATED ON THE PLAN.
   EXISTING EXCAVATED MATERIAL MAY BE
- 2. EXISTING EXCAVATED MATERIAL MAY BE REUSED AS THE TRENCH BACKFILL MATERIAL WITH APPROVAL OF THE ENGINEER MATERIAL WITHIN THESE LIMITS.
- WITHIN THESE LIMITS.

  3. PRIOR TO THE REMOVAL OF THE EXISTING SIDEWALK THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING THE HORIZONTAL AND VERTICAL LOCATION OF THE EXISTING BACK OF WALK IN ORDER TO CONSTRUCT THE NEW SIDEWALK IN THE SAME LOCATION WITHIN THE EXISTING R.O.W.

CITY OF NEW BRITAIN
OVERLOOK AVENUE / MCKINLEY
DRIVE DRAINAGE IMPROVEMENTS
PHASE 2
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Revisi No.	ons: Date	Description
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Issued	l For:	
Scale	:	AS NOTED
Date:		07/03/2024
Draw	n By:	AMN
Revie	wed By:	LEC
Appro	oved By:	MJJ
W&S	Proiect No.:	ENG23-2939

Drawing Title:

TYPICAL SECTIONS

Sheet Nu

C00<sup>2</sup>

5		DO	WN TO	EARTH	1		PROPOSEI	PROJECT CULVERT R		NT			BORING NC SHEET	). 	B-1 of 1	
1		CO	NSULT	FING, LL	ERING		I	MCKINLEY DF	RIVE				FILE NO.		233-006.00	
							NEW B	NEW BRITAIN, CONNECTICUT				'	CHKD. BY		TJO	
3or	ring Co	).		Gene	eral Borings, Inc	).		Boring Lo	ocation		S	ee B	Boring Locat	tion Plan		
Dril	ller			To	m McGovern			Ground 8	Surface El.	317'	'+/-	Di	atum	Not A	Available	
.00	gged B	у		M	ateusz Fekieta			Date Sta	rt	1/10/2	2024	Da	ate End	1	/10/2024	
	mer Typ				Lever Operated S		mer		_		ndwater Re			ground su		
	pler Size Drill Rig				1-3/8" I.D. Sp Truck Mounted		3		Date 1/10/24	Time -	Depth 7		Elev.	S	tabilization Time Wet Sample	
rilli	ng Meth				3.25-inch I.D. Hollo				1/10/24	-	5	$\overline{}$	-	End of	Boring- Collapsed 5.5	
D E P	Casing		SAI	IPLE INFO	RMATION				SAMPL	E DESCRI	IPTION				STRATA	
T H	Blows (ft)	Type & No.	REC/PEN (inches)	DEPTH (feet)	BLOWS PER 6 INCHES	Core Time (min./ft)	ę.									
1	(1.57)	S-1	9/24	0 to 2	3-5-8-42		Madi	um dense, red	hrown fine	to coarse	SAND littl	ان کاا	trace ( ) Po	note		
2							Ivieui	uiii delise, red	a-brown, nne	to coarse .	SAND, IIII	ie Siii	i, ilace (-) Ri		F	
3 4		S-2	10/24	2 to 4	19-14-11-7	1	Medium de	nse, red-brow	n, fine to coa	rse SAND	, little Silt,	trace	fine to coar	se Gravel	FILL	
5																
6		S-3	6/24	5 to 7	8-13-13-32		Medium de	ense, red-brow	vn, fine to co	arse SAND	), little fine	to co	oarse Gravel	, little Silt		
7 8	-	S-4	9/24	7 to 9	24-37-36-42	-										
9			U127		2.0100-12		Very dens	se, red-brown,	fine to coars	e SAND, s	some fine	to coa	arse Gravel,	little Silt		
10																
11 12	-	S-5	8/24	10 to 12	7-40-36-42		Very dens	se, red-brown,	fine to coars	e SAND, s	some fine	to coa	arse Gravel,	little Silt		
13						$\vdash$									TILL	
14																
15 16	-	S-6	1/11	15 to 15.9	21-50/5"	-	Very den	se, red-brown	fine to coar	se SAND	little fine to	n coa	rse Gravel I	ittle Silt		
17		3-6	1/ 1 1	15 10 15.9	21-30/3		very der	3c, rca-biowii	, mic to coar	30 0/1110,	naic inic a	0 000	iisc Olavci, i	itue ont		
18	<u> </u>															
19 20	-					-	EN	D OF EXPLO	PATION AT	IQ FEET R	ELOW GE		ID SLIBEAC			
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	0 to 4 -	Very L	oose	0 to 2	2 - Very Soft	Trace	= 0 to 10%	1. S denotes sp				$\top$	7. WH denote			
11		10 - Loc Mediun	se Dense		to 4 - Soft - Medium Stiff	1		<ol> <li>ST denotes 3</li> <li>UO denotes</li> </ol>	3-inch Osterbe	rg undisturb	oed sample		<ol> <li>WR denote</li> <li>PP denotes</li> </ol>	-		
(	31 to Over 50	50 - De - Very I			o 15 - Stiff 30 - Very Stiff	And =	35 to 50%	4. PEN denotes 5. REC denotes							ne shear test. uality Designation.	
`	5, 50	Jory	200		er 30 - Hard			6. SPT denotes					12. C denotes			

4) Auger refusal at 19 feet on inferred boulder.

Boring Co Driller Logged By			General Borings, Inc. Tom McGovern Mateusz Fekieta				Ground S	Ground Surface El. 312'+/-			e Boring Location Plan  Datum Not Available  Date End 1/10/2024		
Hamr	mer Typ	e:	11-		Lever Operated Sa	afety Hamr	ner		Ground	water Readin	gs (from	ground sur	face)
	oler Size				1-3/8" I.D. Sp			Date	Time	Depth (ft)	Elev.	s	tabilization Time
	Drill Rig ng Metho				Truck Mounted I 3.25-inch I.D. Hollo			1/10/24 1/10/24	-	5 4.5	-	End of	Wet Sample Boring- Collapsed 4.
ן ם	ig wein	ou.			3.25-INCH I.D. HOIIO	w-Stem At	igers	1/10/24	-	4.5	-	End of	
E P T	Casing Blows	Туре	SAI REC/PEN	MPLE INFO	BLOWS PER	Core Time		SAMPLI	E DESCRIP	TION			STRATA
н	(ft)	& No.	(inches)	(feet)	6 INCHES	(min./ft)							
1		S-1	10/24	0 to 2	2-2-2-4	<u> </u>	Very loc	se, brown, fir	ne to coarse	SAND, son	ne Silt		+/-4" Topsoil
2		S-2	11/2/	2 to 4	12 10 29 25	_							FILL
3		3-2	11/24	2 to 4	12-19-28-25		Dense, red-bro	wn, fine to co	arse SAND,	little Silt, litt	le fine Gravel	l	
5													
6		S-3	9/24	5 to 7	10-15-17-24		Dense, red-brown, fir	e to coarse S	SAND, some	Silt little fir	ne to coarse (	Gravel	
7			4 ***		47.61.55	<u> </u>	,, !!!		, 501110	,			
9		S-4	14/24	7 to 9	17-24-22-34		Dense, red-brown, fir	e to coarse S	SAND and fire	ne to coarse	GRAVEL, litt	tle Silt	
10													
11		S-5	1/24	10 to 12	7-26-42-49					CAND	:tri = C:lt		
12							very den	se, red-brown	i, rine to coa	irse SAND, I	itue Siit		
13													
14													TILL
15 16		S-6	10/16	15 to 10 0	24 50 50/4"								
16 17		5-6	10/16	15 to 16.3	31-59-50/4"		Very dense, red-brown	, fine to coars	se SAND, litt	tle fine to co	arse Gravel, I	little Silt	
18													
19													
20													
21		S-7	8/8	20 to 20.7	56-50/2"		Very dense, red-brown	, fine to coars	e SAND, son	ne Silt, little i	ine to coarse (	Gravel	
22 23						-	END OF EXPLOR	ATION AT 21	I 5 FFFT BE	FI OW GRO	UND SURFAC	CF	
24							LIND OF EXILENT	////O///// 2	1.01 LL1 DL	LOW ONO	OND CON 71	OL .	
25													
26													
27						<u> </u>							
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		N-Valu			N-Values		oortions	154 In 1		SYMBOL			
1	0 to 4 - 5 to 1	Very L 0 - Loc		l	? - Very Soft o 4 - Soft	1	= 0 to 10%			ple.	7. WH denotes 8. WR denotes	_	
			n Dense		Medium Stiff	1	= 20 to 35% 3. UO denotes				9. PP denotes	_	

FIELD NOTES: 1) Stratification lines represent approximate boundaries between soil types, transitions may be gradual.

3) Auger refusal at 21.5 feet on inferred boulder and/or bedrock.

2) Water level readings have been made at times and under conditions stated, fluctuations may occur due to other factors.

PROJECT

PROPOSED CULVERT REPLACEMENT

MCKINLEY DRIVE

BORING NO.

SHEET

FILE NO.

B-2

233-006.00

\_\_1 of \_\_1

Drill	ing Co. er ged By			To	eral Borings, Ind om McGovern ateusz Fekieta	C.	Boring L Ground Date Sta	Surface El.	308'+/- 1/10/202		Boring Loca Datum Date End	Not A	Available /10/2024
Hammer Type: Sampler Size: Type Drill Rig: Drilling Method:		: 1-3/8" I.D. Split Spoon : Truck Mounted Mobile B-53			53	Date 1/10/24 1/10/24	Groundw Time - -	Depth (ft) 5	gs (from Elev. -		rface) Stabilization Tir Wet Sample Boring- Colla		
D E P	Casing		SAI	MPLE INFO	RMATION			SAMPL	E DESCRIPT	ION			STR
Н		Type & No.	REC/PEN (inches)	DEPTH (feet)	BLOWS PER 6 INCHES	Core Time (min./ft)	9						40.4
2		S-1	7/12	1 to 2	15-50/6"		Very dense, brown/bla	ick, fine to coa	rse SAND, litt	le fine to coa	arse Gravel, lit	ttle Silt	4"+/- ₽
3 4 5		S-2	1/24	3 to 5	11-14-12-11		Medium dense, brown/b	lack, fine to co	oarse SAND Cinders	and fine GF	RAVEL, trace	Silt, trace	FI
6		S-3	10/24	5 to 7	3-4-4-5		Loose, b	rown, fine SAl		lt, trace fine	Gravel		
7 8 9		S-4	12/24	7 to 9	2-6-16-32		- Medium den	se, brown fine	SAND, some	e Silt, trace	fine Gravel		
10		٥.	45/04	40 += 40	46.00.00.04								
11 12		S-5	15/24	10 to 12	16-23-23-24		Dense, red-brov	n, fine to coa	rse SAND, s	ome Silt, tra	ace fine Grave	el	
13 14	-						_						
15 16	-	S-6	3/16	15 to 16.3	29-45-50/4"		Very dense, red-bi	own, fine to c	oarse SAND	, some Silt,	trace fine Gra	avel	TII
17 18													
19 20													
21 22		S-7	11/24	20 to 22	10-17-26-45		Dense, red	l-brown, fine S	SAND and SI	LT, trace fir	ne Gravel		
23 24													
25 26							END OF EXPLO	RATION AT 2	24 FEET BEL	.OW GROU	ND SURFAC	E	
27 28	_												
29 30	-												
31 32													
33 34													
35 36	1												
37 38	_												
39 40													
11	SPT N 0 to 4 - V 5 to 10 to 30 - N 31 to 5 Over 50 -	/ery Loo 1 - Loo 1edium 0 - De	oose se Dense nse	0 to 2 3 t 5 to 8 - 9 to 16 to 3	N-Values 2 - Very Soft to 4 - Soft - Medium Stiff to 15 - Stiff 30 - Very Stiff to 30 - Hard	Trace Little : Some	= 10 to 20% = 20 to 35% = 35 to 50% 2. ST denotes 3. UO denotes 4. PEN denote 5. REC denote	plit-barrel samp 3-inch O.D. und 3-inch Osterbe s penetration le s recovered len s Standard Pen	disturbed samp org undisturbed ongth of sample ongth of sample.	sample. er.	7. WH denote 8. WR denote 9. PP denotes 10. FVST den 11. RQD denotes	s weight of Pocket Per otes field vantes Rock C	rods netrometer. ane shear tes tuality Design

2) Water level readings have been made at times and under conditions stated, fluctuations may occur due to other factors.

3) Auger refusal at 24 feet on inferred boulder and/or bedrock.

**PROJECT** 

PROPOSED CULVERT REPLACEMENT

MCKINLEY DRIVE

NEW BRITAIN, CONNECTICUT

BORING NO.

1 of 1

233-006.00

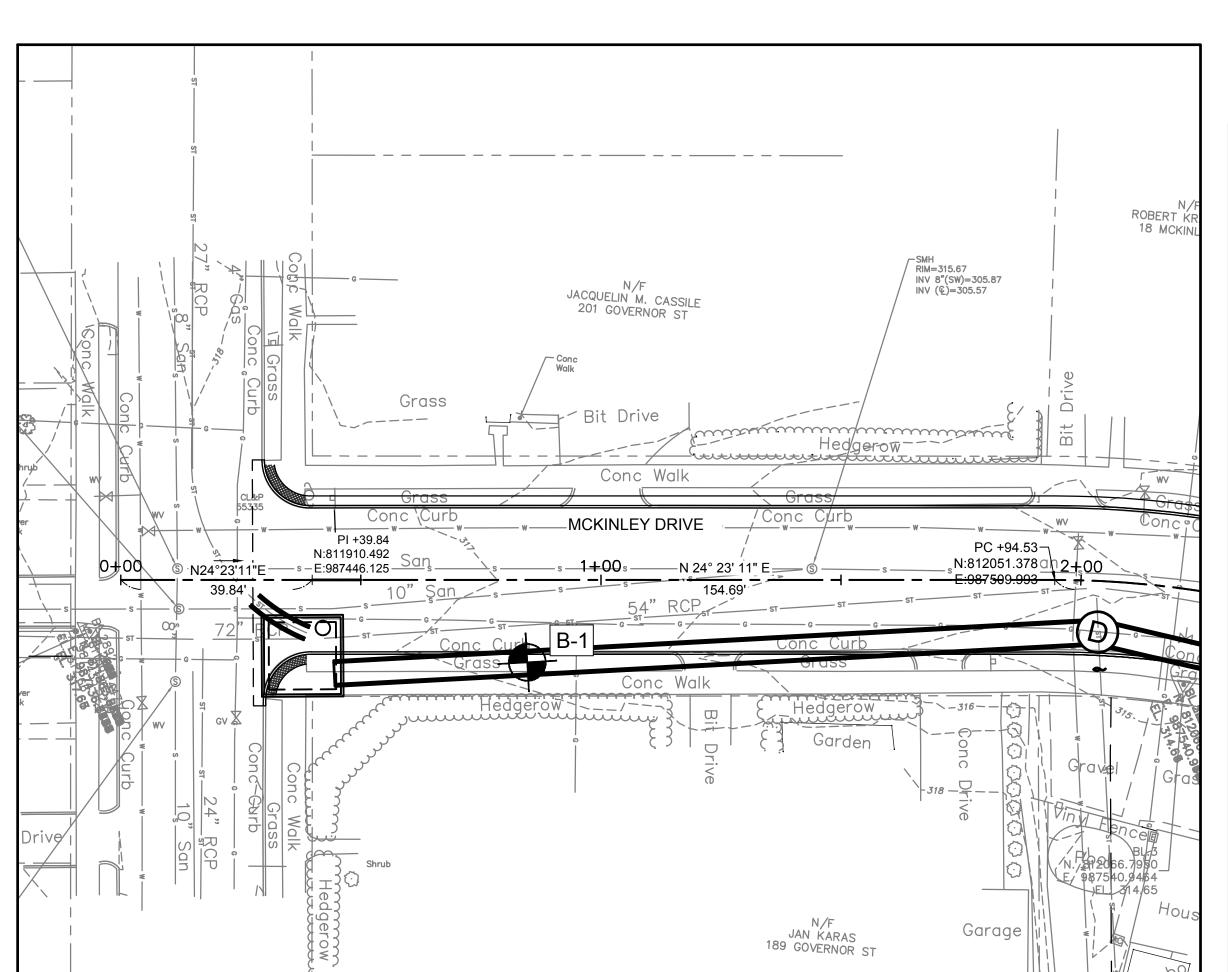
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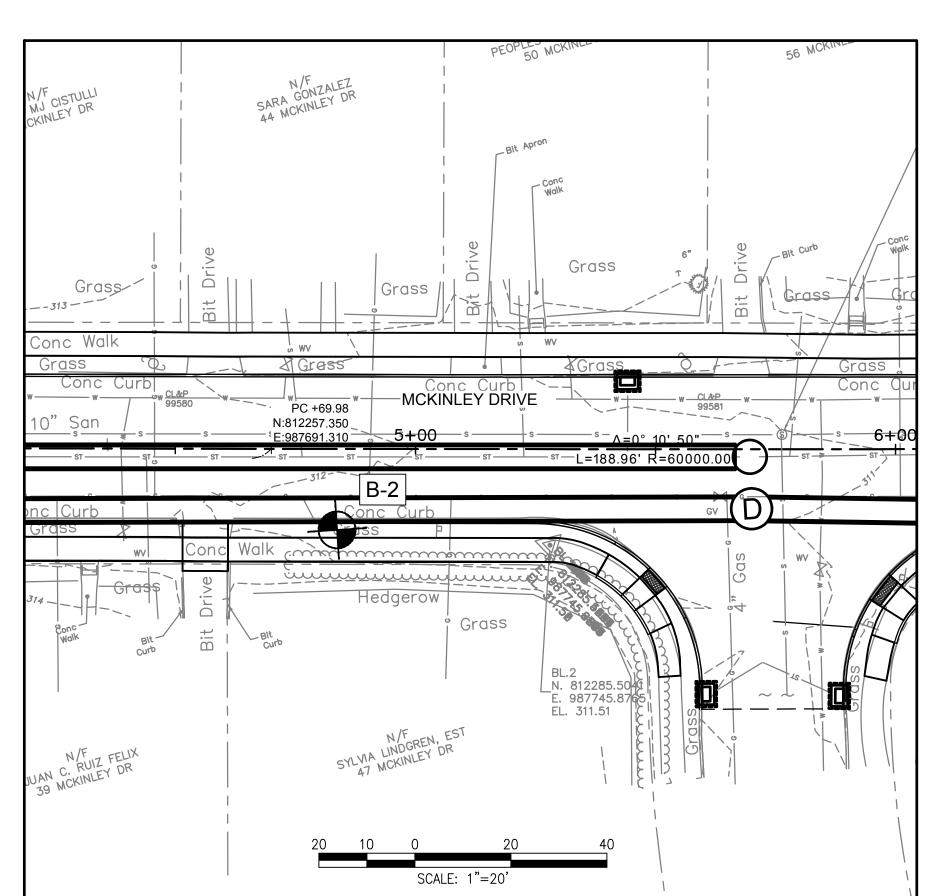
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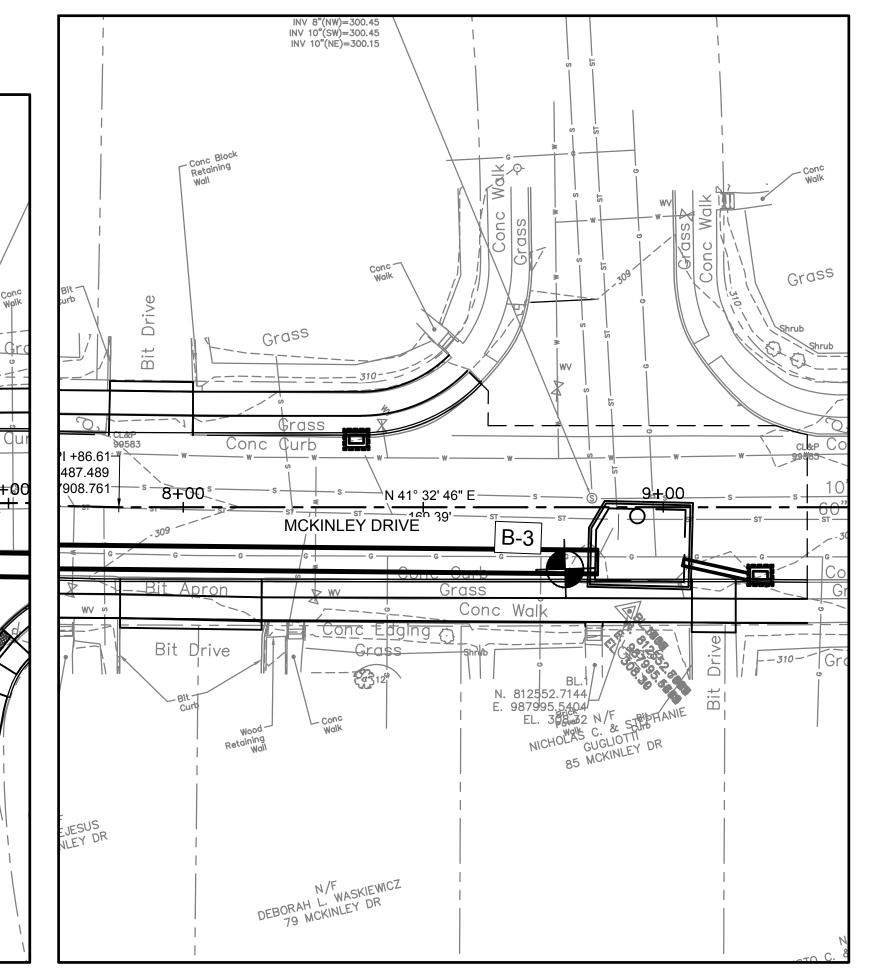
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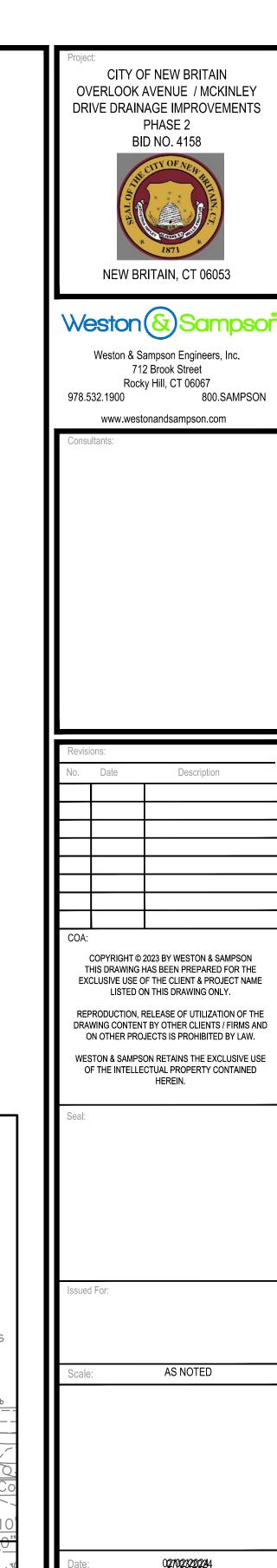
CHKD. BY

DOWN TO EARTH CONSULTING, LLC





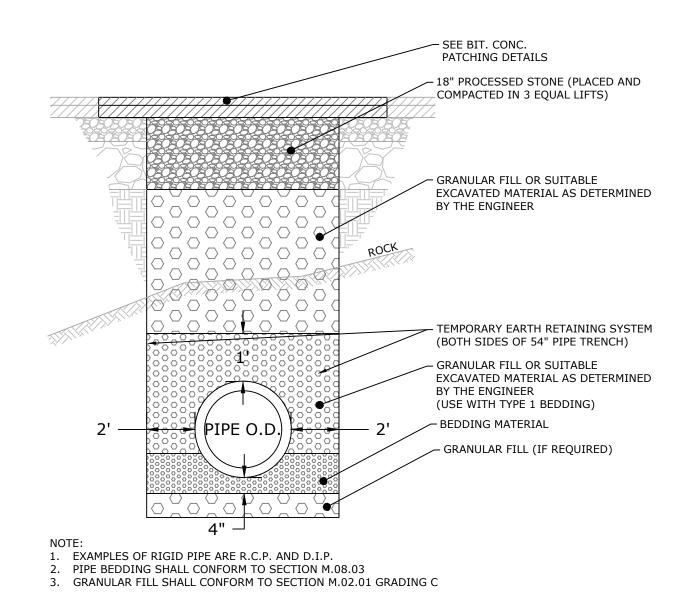




W&S Project No.: ENG23-2939

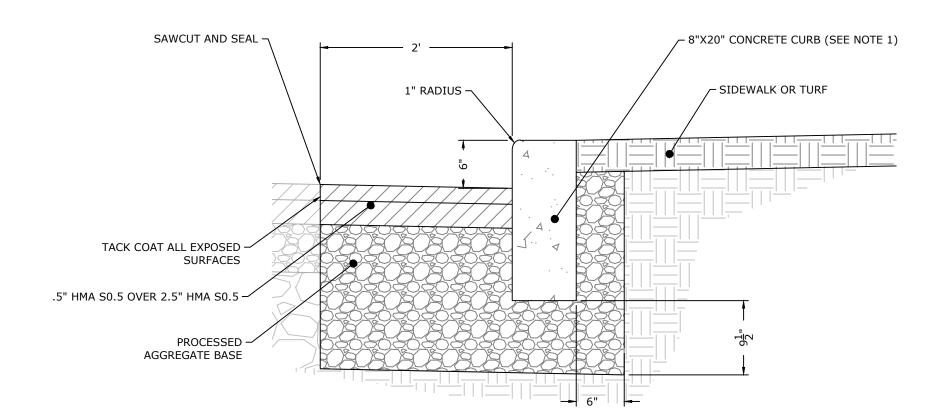
**BORING** 

PLAN AND LOGS



BEDDING TYPE PLACEMENT CHART									
BEDDING TYPE	PIPE SIZE	DEPTH BELOW PIPE	HEIGHT ABOVE INV.	HEIGHT ABOVE PIPE					
TVDE I	LECC THAN 40"	4" (EARTH)	350/ DIDE O D						
TYPE I	LESS THAN 48"	12" (ROCK)	25% PIPE O.D.	<b>-</b>					
TVDE II	40" AND LADCED	4" (EARTH)		12"					
TYPE II	48" AND LARGER	12" (ROCK)	-	12"					

## TRENCH EXCAVATION AND BACKFILL - RIGID PIPE NOT TO SCALE

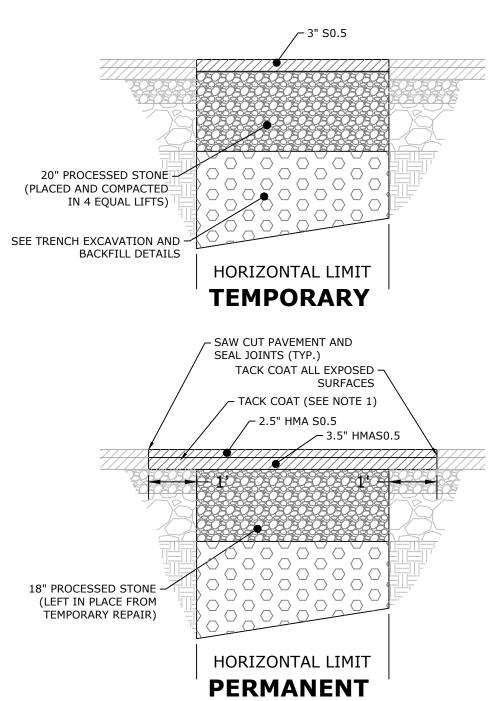


#### **EXISTING ROAD WITH PAVEMENT REPAIR**

- 1. 24" WIDE PAVEMENT REPAIR MAY BE ELIMINATED FOR CONCRETE CURB WHEN APPROVED BY THE CITY ENGINEER TACK COAT REQUIRED BETWEEN PAVEMENT LIFTS WHEN BINDER COURSE IS INSTALLED MORE THAN 24 HOURS
- BEFORE SURFACE COURSE. 4. BITUMINOUS CONCRETE CLASS 1 MAY BE USED IN PLACE OF HMA S0.5 WHEN APPROVED BY THE CITY ENGINEER.

**CONCRETE CURB** 

NOT TO SCALE



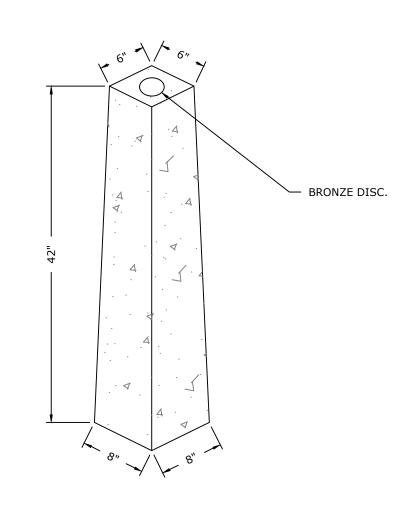
- TACK COAT REQUIRED BETWEEN PAVEMENT LIFTS WHEN BINDER COURSE IS INSTALLED MORE THAN 24 HOURS BEFORE SURFACE COURSE.
   BITUMINOUS CONCRETE CLASS 1 MAY BE USED IN PLACE OF HMA S0.5 WHEN APPROVED BY THE CITY ENGINEER.

BIT. CONC. PATCHING - FULL DEPTH

NOT TO SCALE

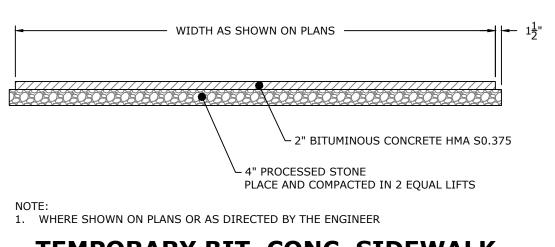
PROJECT NUMBER

ENG23-2939 DRAWING NUMBER

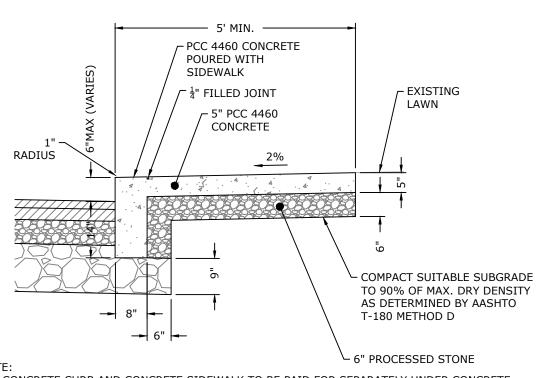


 CONCRETE REINFORCED WITH 5 -#5 BARS.
 CITY OF NEW BRITAIN BRONZE DISC MUST BE PURCHASED FROM DPW FOR MANUFACTURING MONUMENTS.

#### STANDARD NEW BRITAIN CONC. MONUMENT NOT TO SCALE



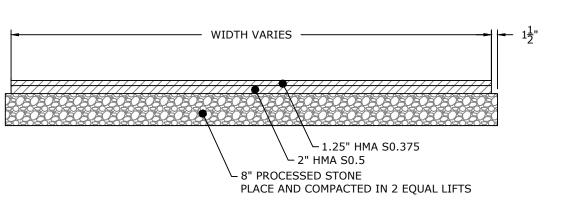
# TEMPORARY BIT. CONC. SIDEWALK NOT TO SCALE



NOTE:

1. CONCRETE CURB AND CONCRETE SIDEWALK TO BE PAID FOR SEPARATELY UNDER CONCRETE CURB AND CONCRETE SIDEWALK ITEMS RESPECTIVELY.

## MONOLITHIC CONCRETE SIDEWALK NOT TO SCALE

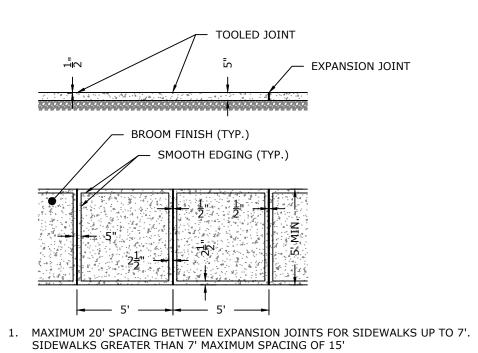


#### **TYPICAL SECTION**

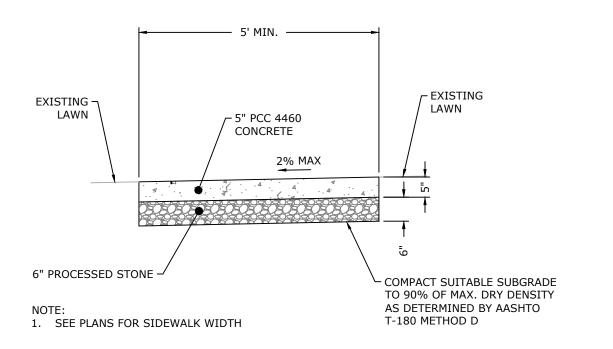
1. CONCRETE TO BE PLACED CONTINUOUSLY AT BASE OF GRANITE CURBING FOR ENTIRE WIDTH OF DRIVEWAY APRON INCLUDING FLARED SECTIONS TO BE INCLUDED IN THE L.F. PRICE OF GRANITE STONE CURB 2. SEE GRANITE CURB DETAILS FOR INSTALLATION ON EXISTING ROADS

# BITUMINOUS CONCRETE DRIVEWAY NOT TO SCALE

\* 3" FOR COMMERCIAL DRIVEWAYS



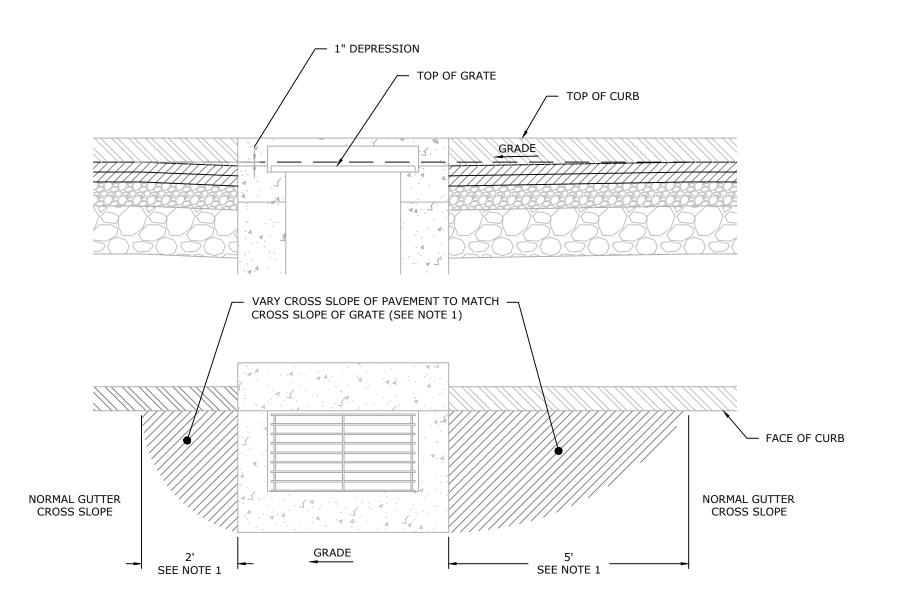
CONC. SIDEWALK JOINTING AND EDGING
NOT TO SCALE



CONCRETE SIDEWALK

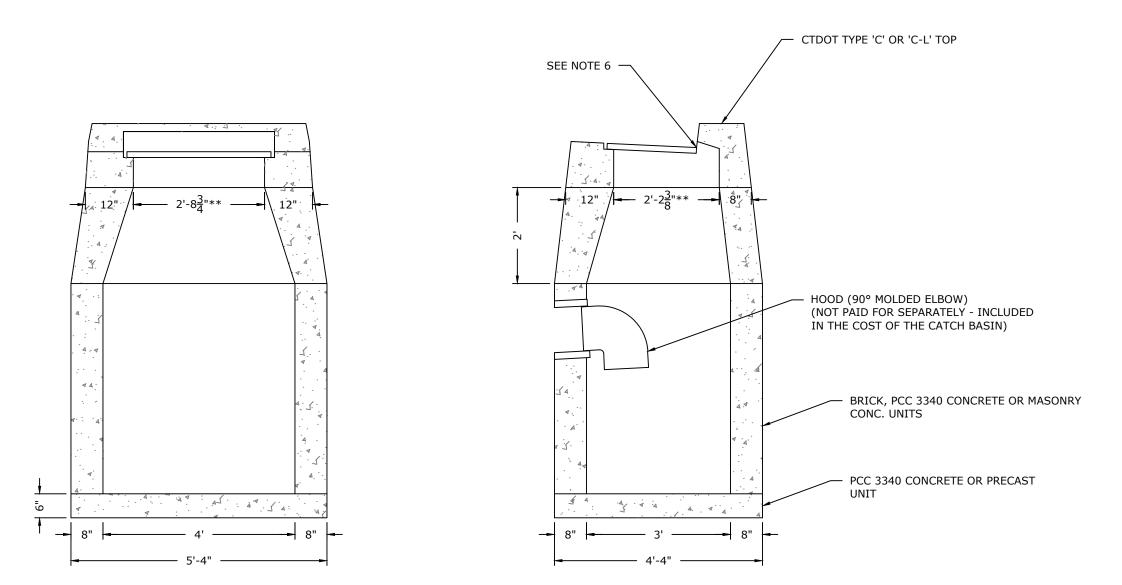
NOT TO SCALE

PROJECT NUMBER ENG23-2939 DRAWING NUMBER C007



1. WHEN CATCH BASIN IS AT LOW POINT, VARY CROSS-SLOPE OF PAVEMENT 4' EITHER SIDE OF C.B. TO SET GRADE WITH 1" DEPRESSION.

# GUTTER DEPRESSION AT CATCH BASIN NOT TO SCALE



- 1. WALLS OF ALL CATCH BASINS OVER 10' DEEP SHALL BE INCREASE TO 12" THICKNESS. INSIDE DIMENSIONS SHALL REMAIN THE SAME.
- 2. PROVIDE DRAINAGE OPENING IN EACH WALL AT LOWEST INVERT ELEVATION
- 3. WHERE BRICK OR MASONRY CONCRETE UNITS ARE USED, CORBELLING WILL BE PERMITTED, MAXIMUM CORBEL SHALL BE 3". NO PROJECTION SHALL EXTEND INSIDE OF LIMITS NOTED BY \*\*.
- PRECAST CONCRETE CATCH BASIN UNITS MAY BE USED, AS DESCRIBED IN THE STANDARD SPECIFICATIONS.
   WHERE PRECAST CONCRETE UNIT IS USED FOR THE SUMP, THE TOP OF THE UNITS SHALL BE AT LEAST 6" BELOW THE BOTTOM OF THE PIPE OUTLETTING FROM THE CATCH BASINS. 6. TOP OF FRAME ELEVATION SHALL BE DEPRESSED 1" BELOW NORMAL GUTTER GRADE.
- 7. PROVIDED 6" (MIN.) GRANULAR FILL UNDER STRUCTURE TO REPLACE UNSUITABLE MATERIAL.



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N, CT 06051

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ENGINEERING

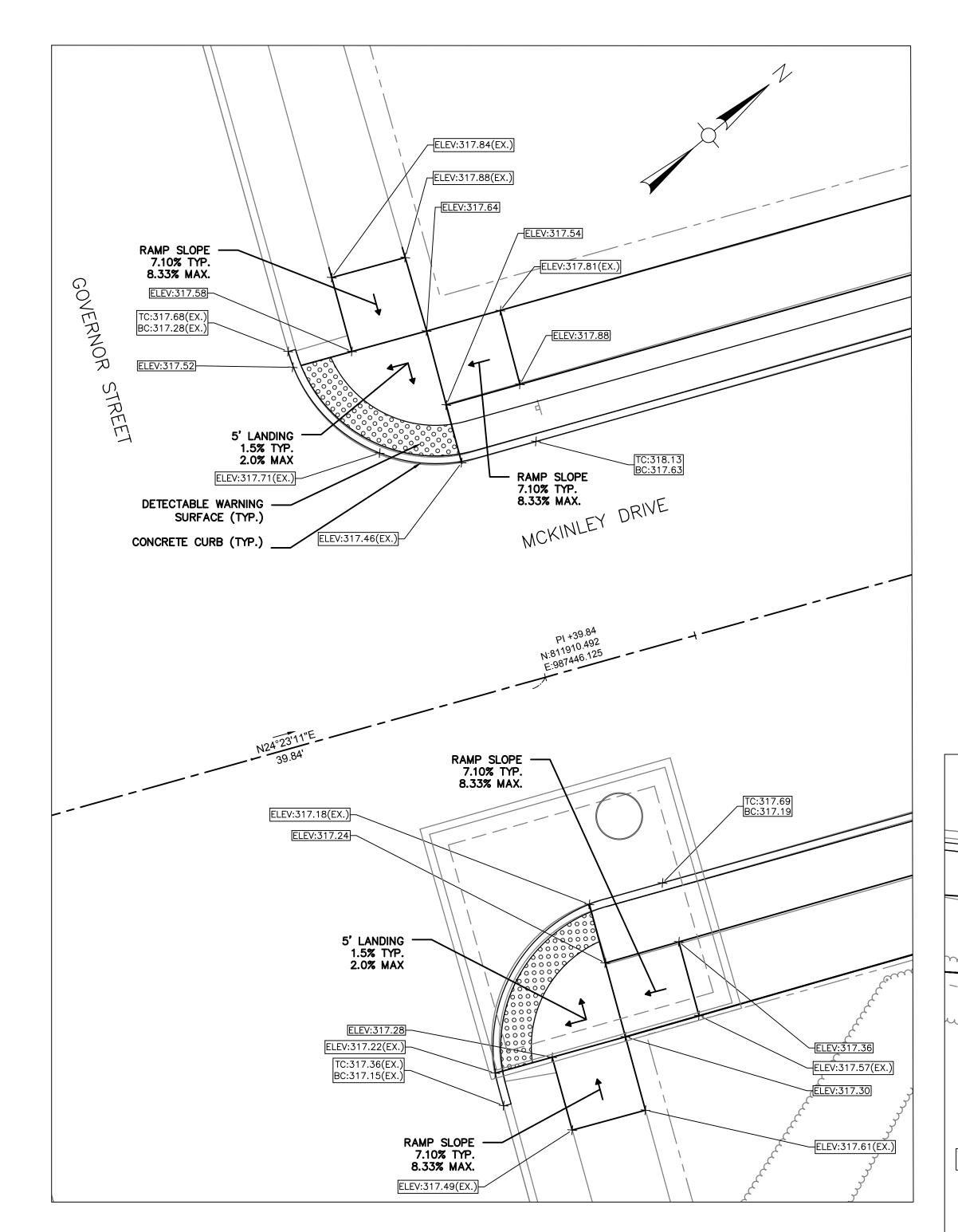


MISCELLANEOUS

ENG23-2939

PROJECT NUMBER

DRAWING NUMBER



NOTE:
CONTRACTOR SHALL STAKEOUT PROPOSED SIDEWALK RAMPS, CURBS,

SIDEWALK RAMP AND LANDING LOCATIONS AND GRADES PRIOR TO

CONTRACTOR, DESIGNER, AND CITY REPRESENTATIVE SHALL MEET IN THE FIELD TO CONFIRM FINAL SIDEWALK LIMITS AND GRADES, AND FINAL

AND LANDINGS PRIOR TO INSTALLATION. ONCE STAKED, THE

INSTALLATION.

MCKINLEY DRIVE TC:312.01 BC:311.51 ELEV:311.51 ELEV:311.05 RAMP SLOPE —— 7.10% TYP. 8.33% MAX. TC:311.59(EX.) BC:311.59 TC:311.06 BC:311.06 DETECTABLE WARNING SURFACE (TYP.) — RAMP SLOPE -7.10% TYP. 8.33% MAX. RAMP SLOPE 7.10% TYP. 8.33% MAX. CONCRETE CURB (TYP.) TC:310.96(EX.) BC:310.96 TC:311.56(EX.) BC:311.15 TC:311.10(EX.) BC:310.47 BACK OF 6" CONCRETE -CURB TO MATCH EXISTING BACK OF WALK 5' LANDING 1.5% TYP. 2.0% MAX ELEV:311.42 5' LANDING — 1.5% TYP. 2.0% MAX TC:311.54(EX.) BC:311.21 TC:311.24(EX.)
BC:310.57

BACK OF 6"
CONCRETE CURB TO
MATCH EXISTING
BACK OF WALK TC:311.50(EX.) BC:311.50 ELEV:311.06(EX.) RAMP SLOPE 7.10% TYP. ELEV:311.41(EX.) 8.33% MAX. ELEV:311.44(EX.) TC:311.22(EX.) BC:311.22 ELEV:311.21(EX.)

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CITY OF NEW BRITAIN OVERLOOK AVENUE / MCKINLEY DRIVE DRAINAGE IMPROVEMENTS

BID NO. 4158

NEW BRITAIN, CT 06053

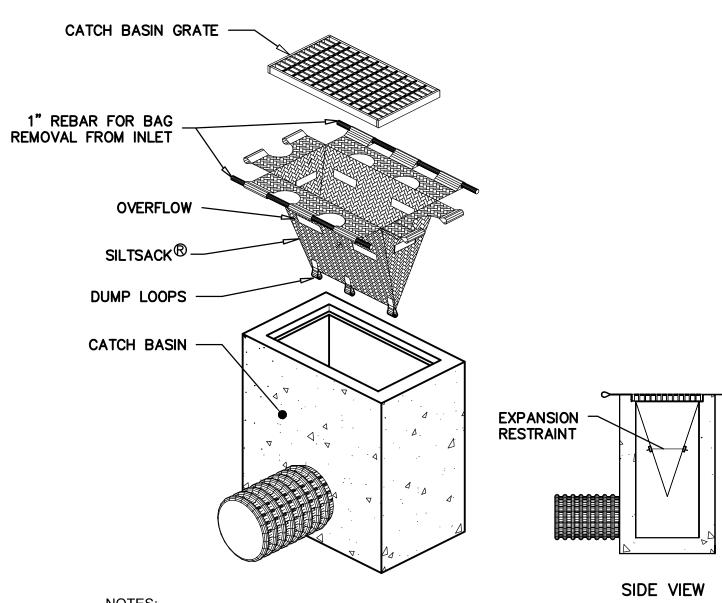
Weston & Sampson Engineers, Inc. 712 Brook Street Rocky Hill, CT 06067

www.westonandsampson.com

978.532.1900

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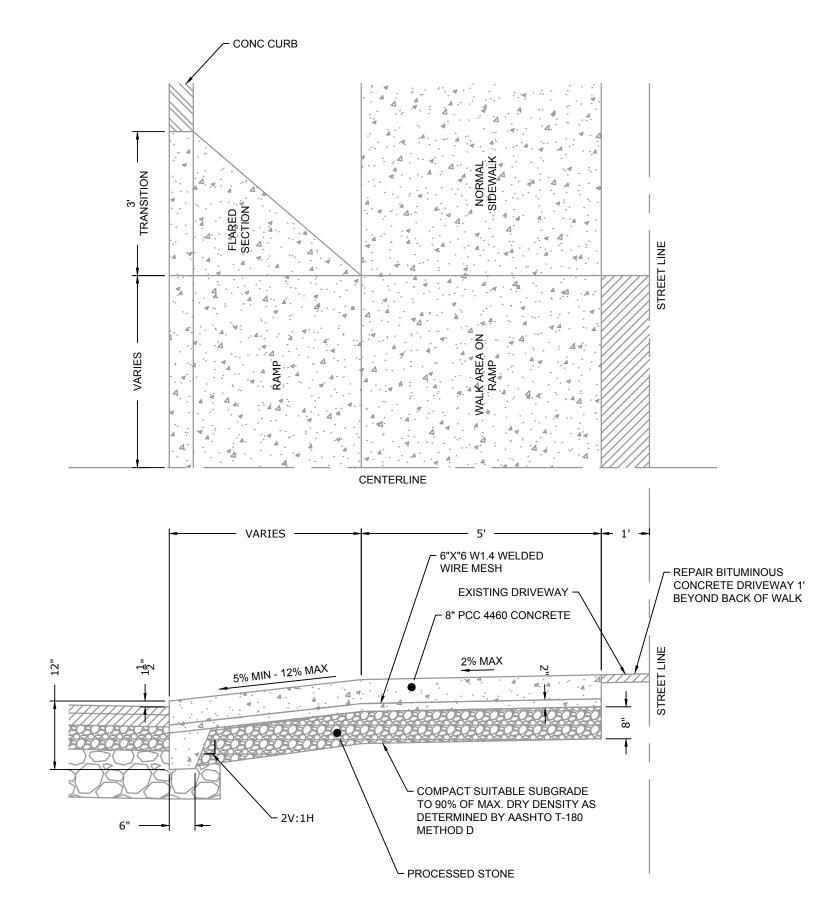
**DETAILS** 



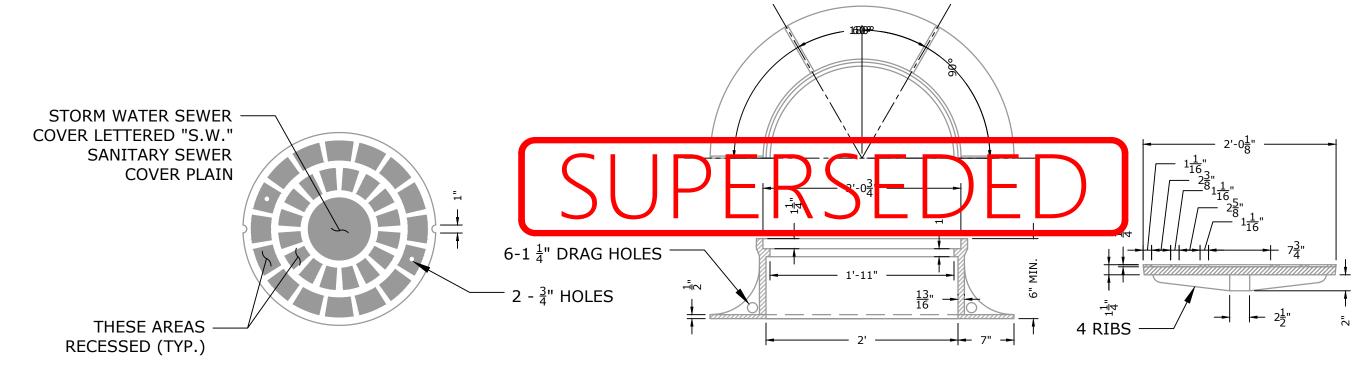
NOTES:

1. PROVIDE HI-FLOW SILT SACK TYPE A FOR TYPE "C-L" CATCH BASIN TOPS AND TYPE "C" CATCH BASIN TOPS OR OTHER TYPE B WITH CURB DEFLECTOR FOR TYPE "C" CATCH BASIN TOPS OR OTHER STRUCTURES WITH CURB INLET.

#### **CATCH BASIN INLET PROTECTION** N.T.S.



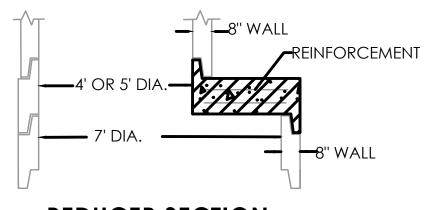
**CONCRETE DRIVEWAY RAMP** NOT TO SCALE



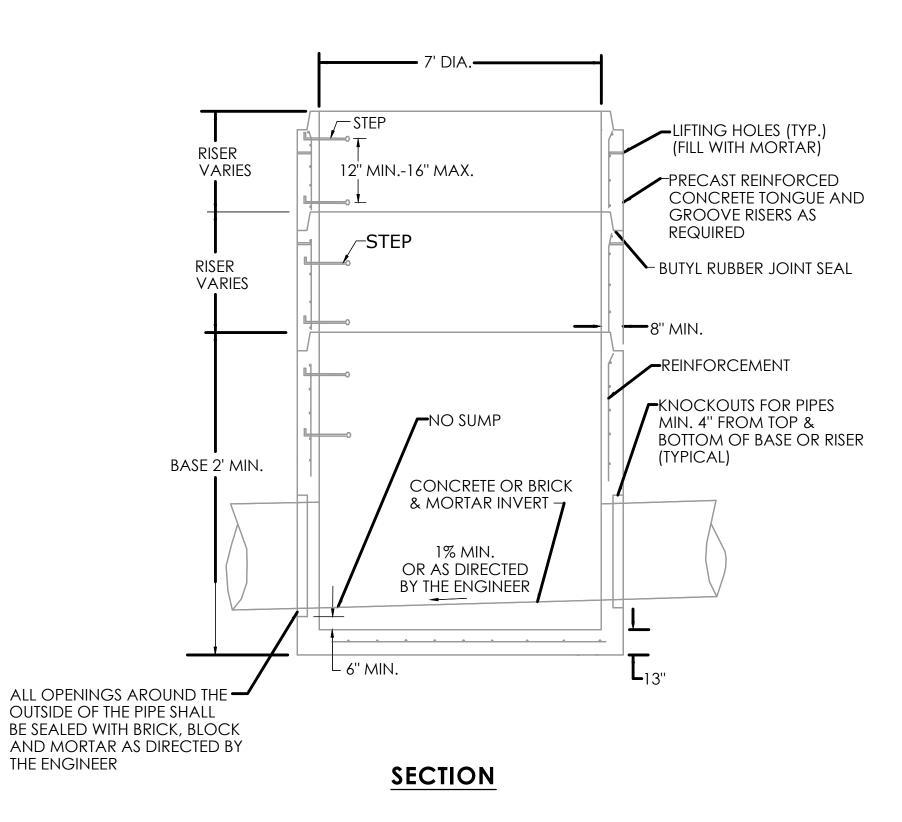
#### NEW BRITIAN STANDARD MANHOLE FRAME AND COVER N.T.S.



#### FLAT SLAB TOP FOR RISER SECTION

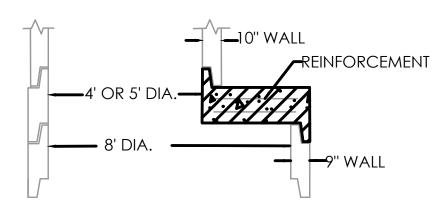


#### REDUCER SECTION

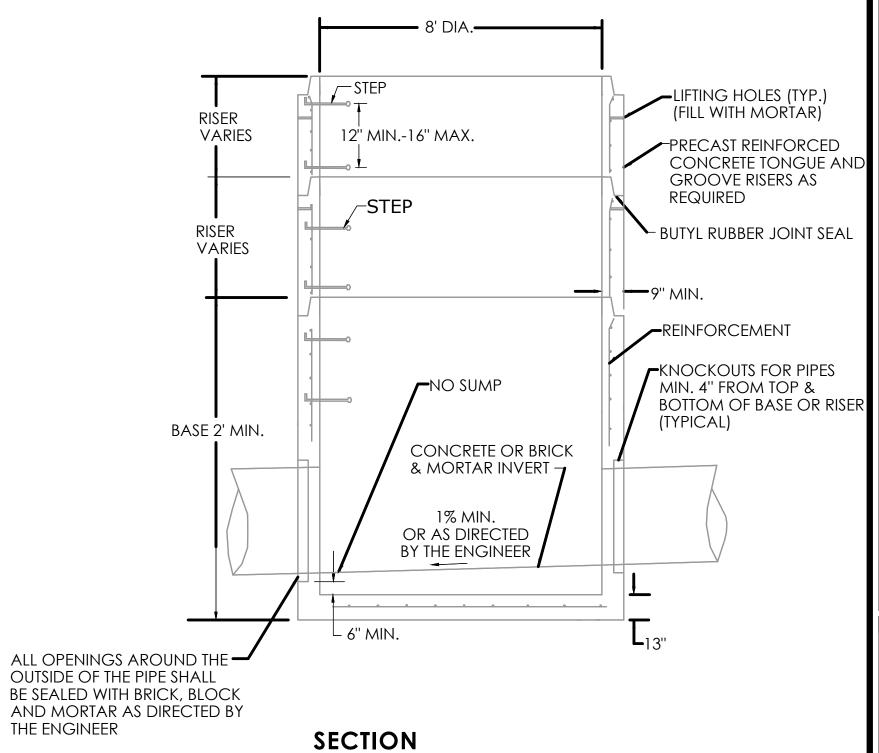


7'Ø REINFORCED PRECAST CONCRETE MANHOLE





#### REDUCER SECTION



8'Ø REINFORCED PRECAST CONCRETE MANHOLE N.T.S.

CITY OF NEW BRITAIN OVERLOOK AVENUE / MCKINLEY DRIVE DRAINAGE IMPROVEMENTS BID NO. 4158



712 Brook Street Rocky Hill, CT 06067 978.532.1900

www.westonandsampson.com

Weston & Sampson Engineers, Inc.

Co	nsultants:	
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Re	visions:	
No	. Date	Description

COA:									
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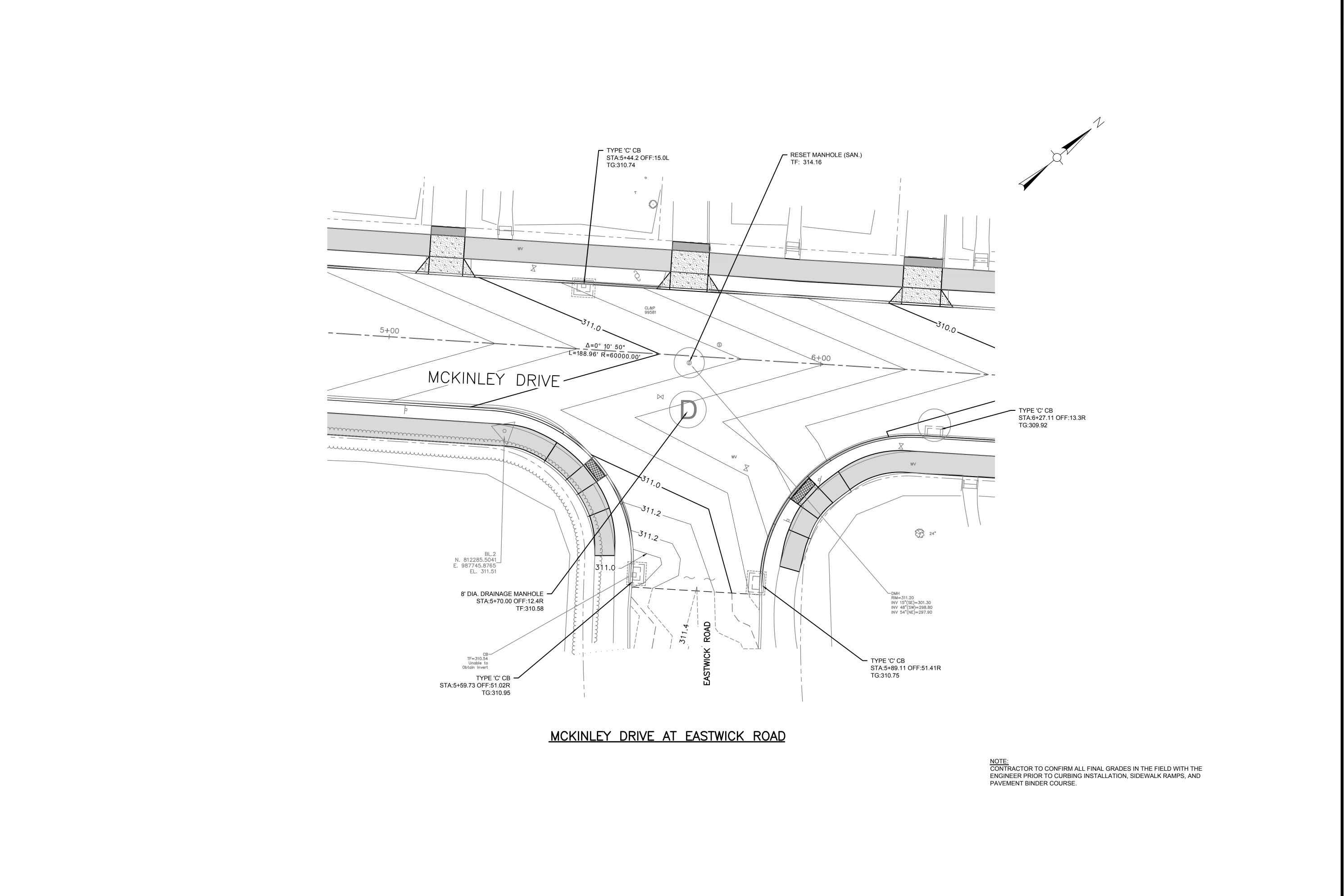
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07/03/2024 PSS LEC RSV ENG23-2939

W&S Project No.:

**MISCELLANEOUS DETAILS** 





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Issued For

Scale: 1"=10'

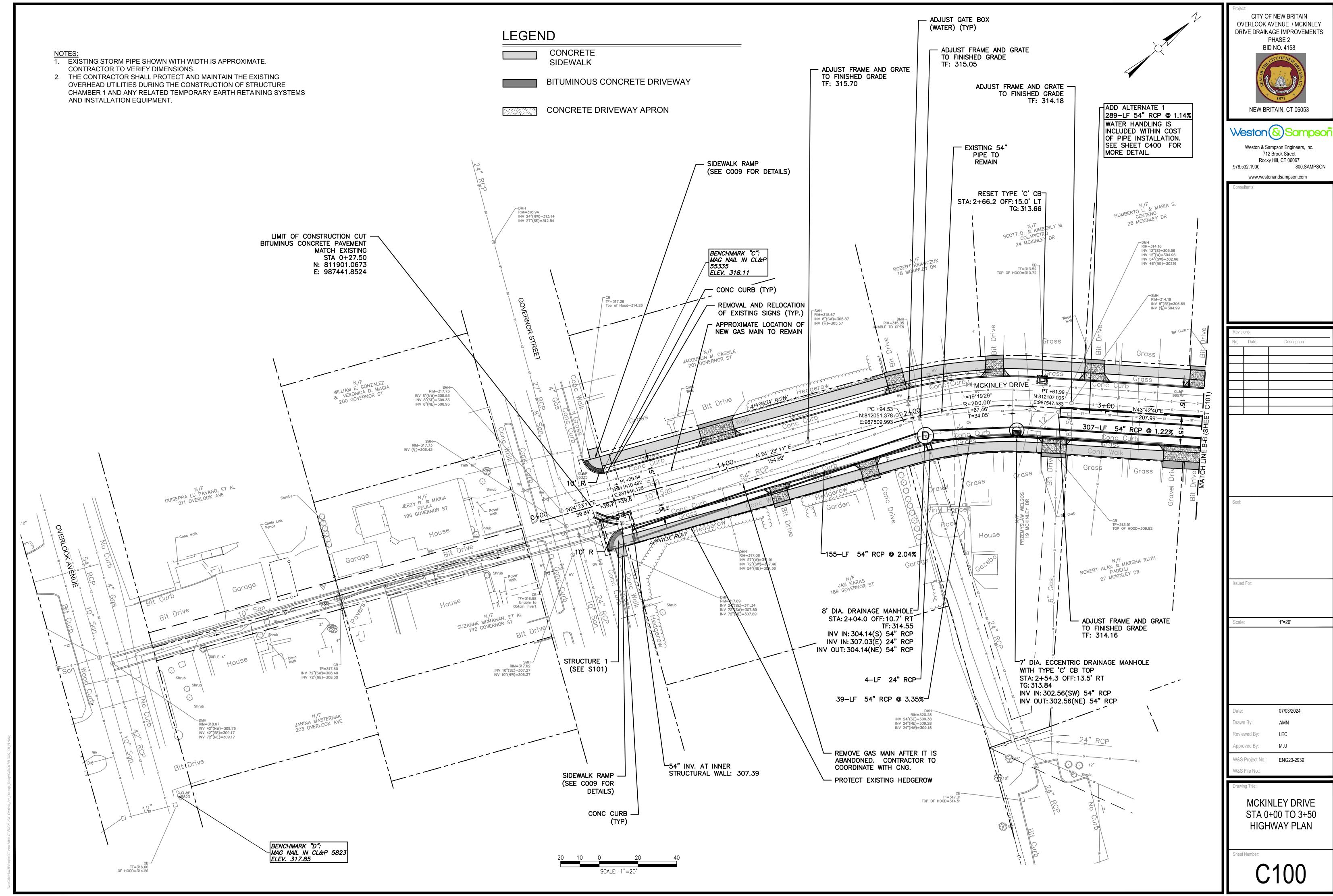
07/03/2024

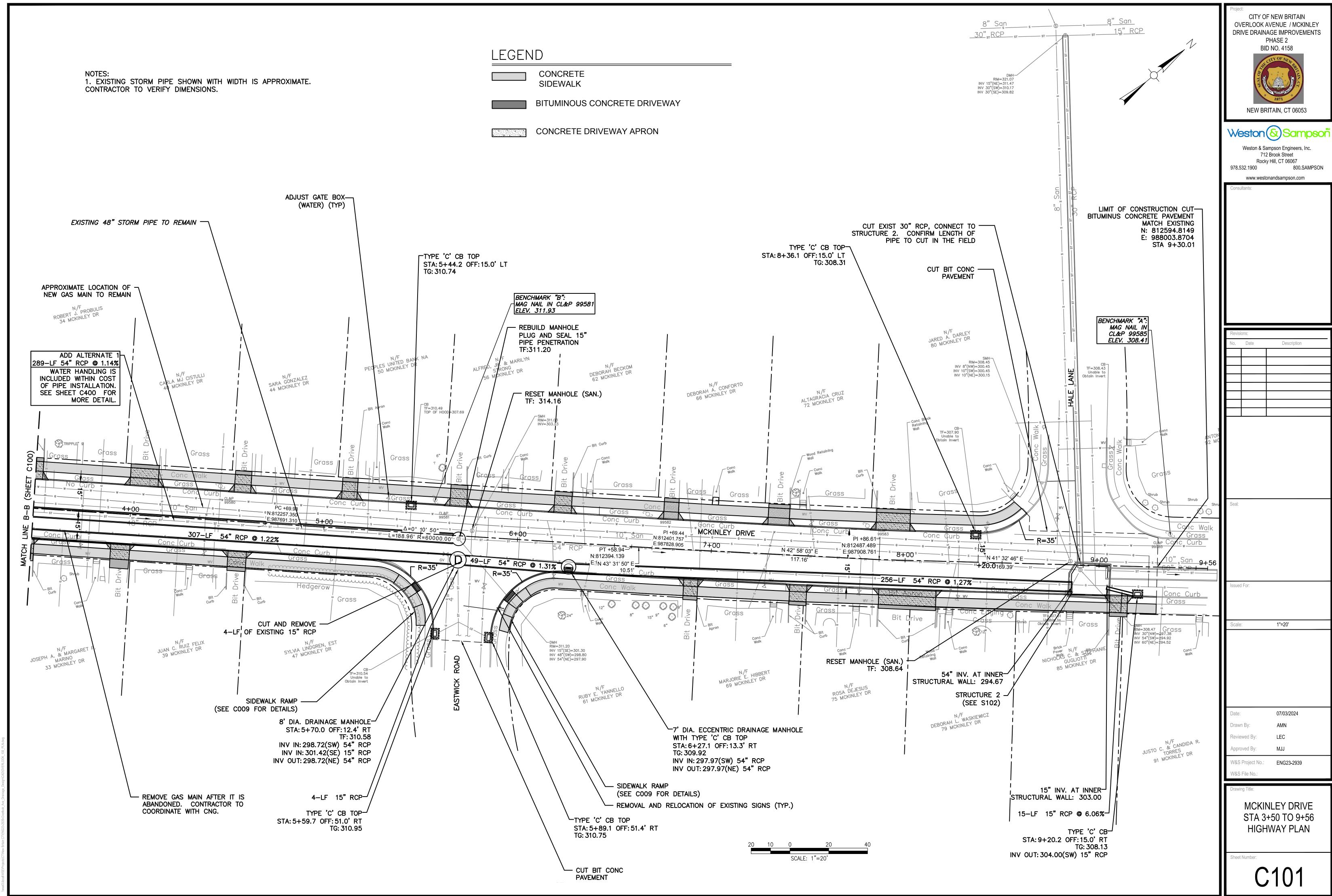
Drawn By: AMN
Reviewed By: LEC
Approved By: RSV

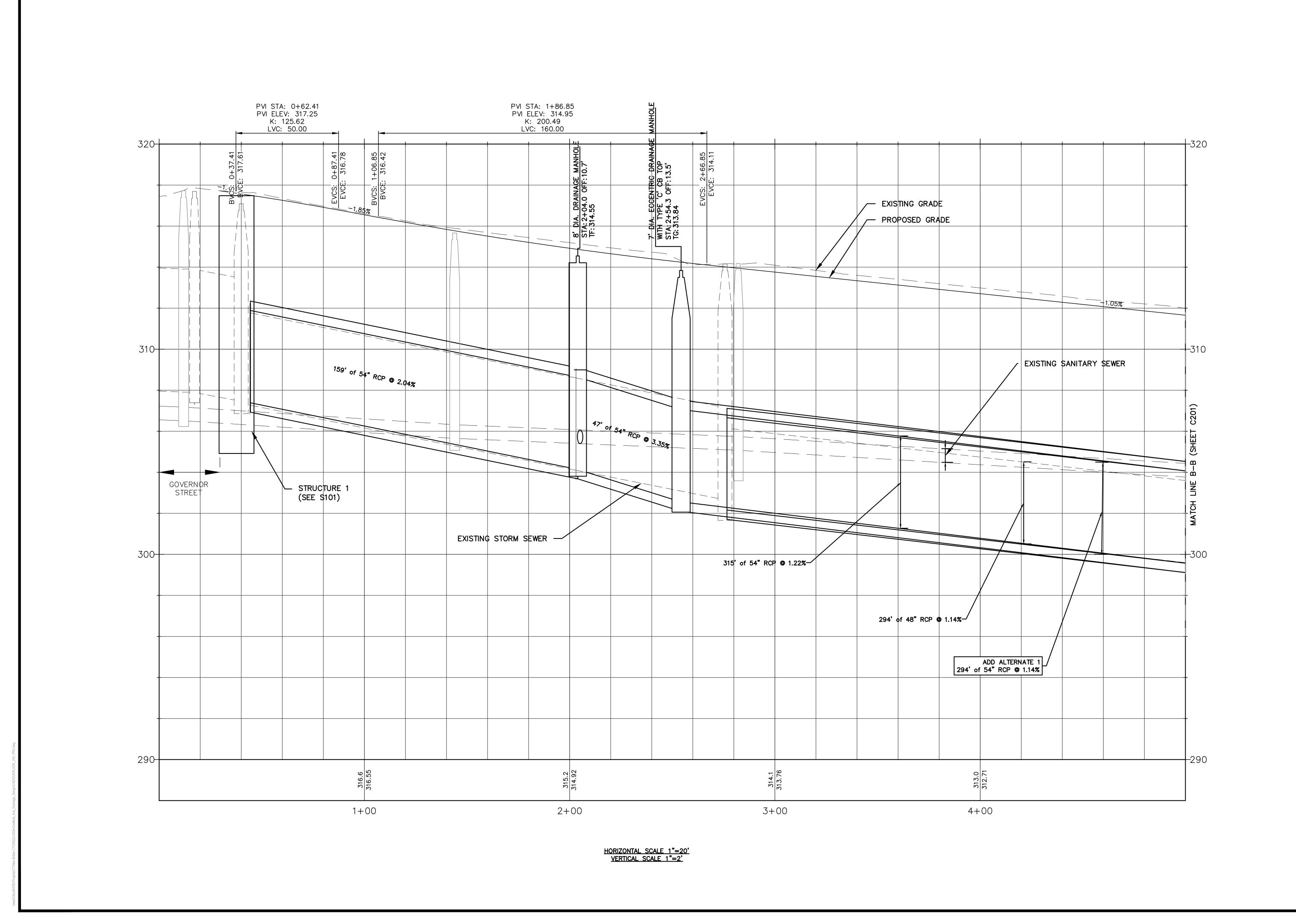
W&S Project No.: ENG23-2939
W&S File No.:

INTERSECTION GRADING PLAN

Number:







NEW BRITAIN, CT 06053

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No.	Date	Description
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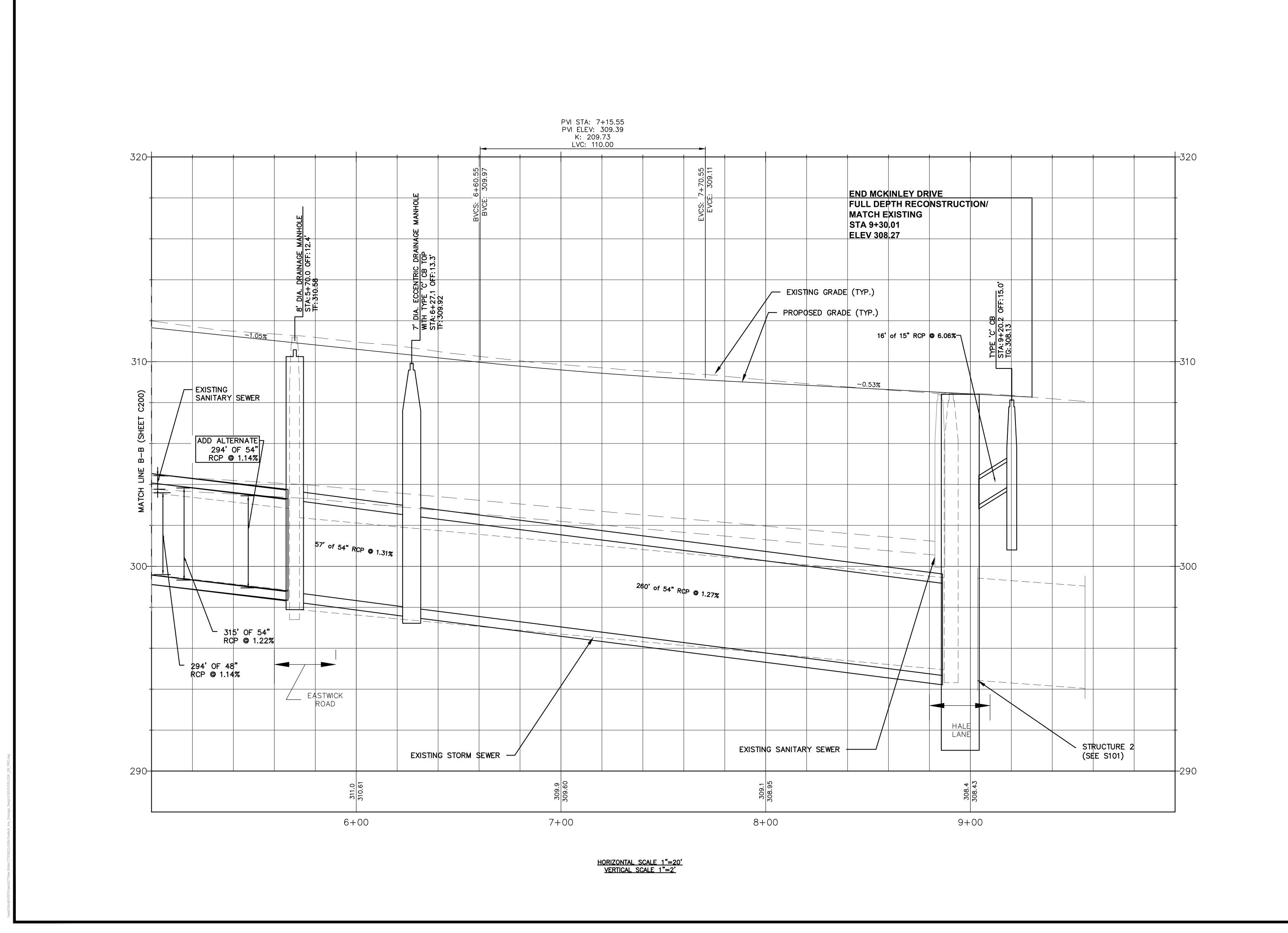
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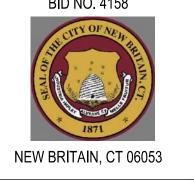
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July 20,72003224024

W&S Project No.: ENG23-2939

PROFILE MCKINLEY DRIVE STA 0+00 TO 5+00





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Seal:				
Issued	l For:			

Date: July 2070374024

Drawn By: AMN

Reviewed By: LEC

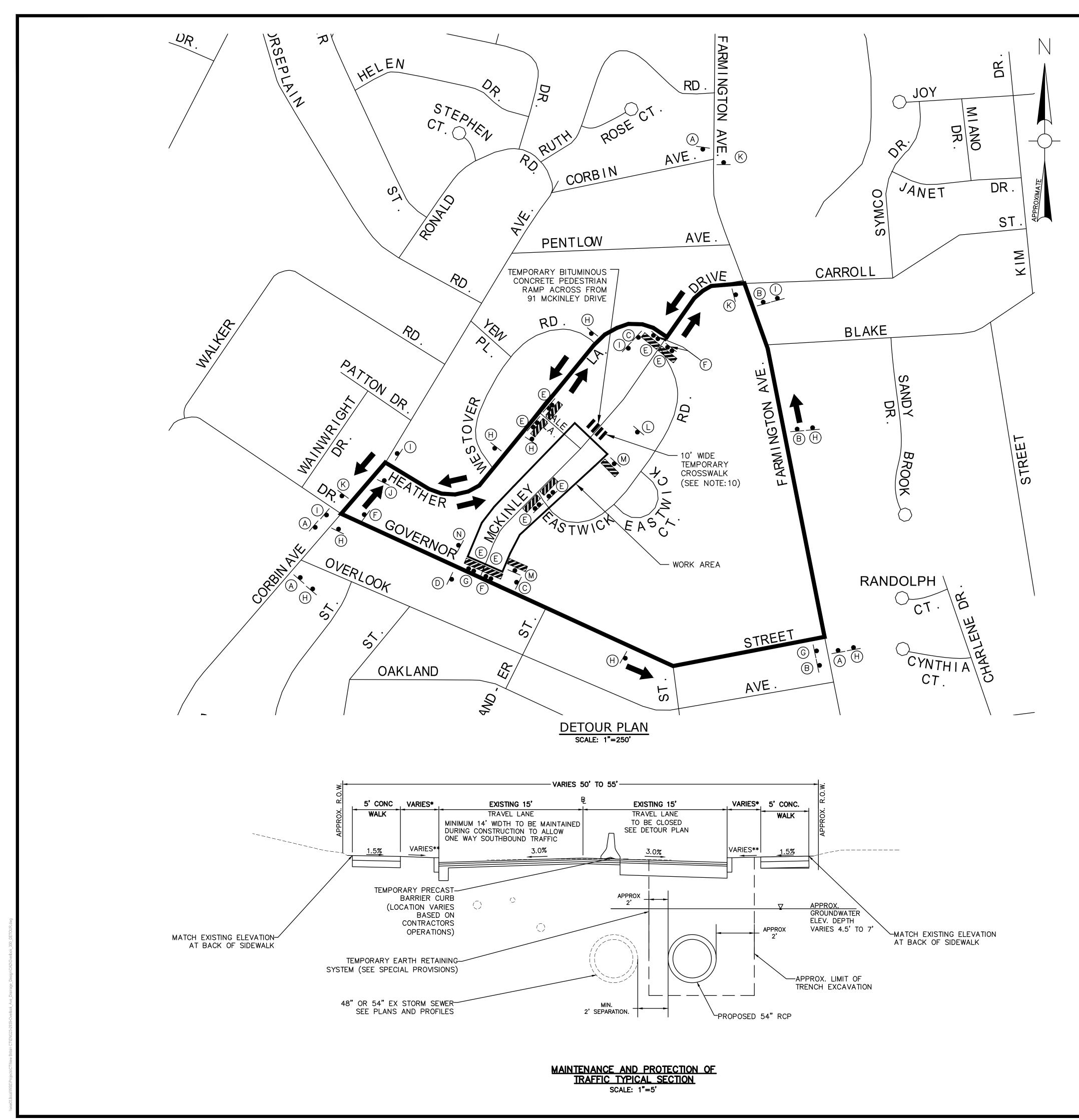
Approved By: MJJ

W&S Project No.: ENG23-2939

AS NOTED

PROFILE MCKINLEY DRIVE STA 5+00 TO 9+56

Sheet Number:



#### **DETOUR ROUTE NOTES:**

- 1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIAL PROVISIONS FOR SECTION 1.08 - PROSECUTION AND PROGRESS AND ITEM NO. 0971001A - MAINTENANCE AND PROTECTION OF TRAFFIC.
- 2. CONTRACTOR TO NOTIFY THE ENGINEER, THE CITY OF NEW BRITAIN, AND ALL EMERGENCY SERVICES AT LEAST TWO WEEKS PRIOR TO CONSTRUCTION.
- 3. ALL SIGNS USED FOR CONSTRUCTION/DETOUR ROUTE ACTIVITIES SHALL BE PAID FOR UNDER ITEM NO. 1220027 - CONSTRUCTION SIGNS.
- 4. DETOUR ROUTE SIGNS ARE TO BE INSTALLED SO THAT THEY DO NOT BLOCK OR ARE NOT BLOCKED BY EXISTING SIGNS.
- 5. ALL DETOUR ROUTE SIGNS TO BE INSTALLED ON BREAKAWAY POSTS PER TRAFFIC STANDARD SHEETS TR-1208-1, TR-1208-2, AND TR-1220-2.
- 6. THE LOCATION OF TEMPORARY SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE ADJUSTED BY THE CONTRACTOR TO MEET FIELD CONDITIONS.
- 7. ANY EXISTING SIGNING DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT NO COST TO THE TOWN.
- 8. BARRICADE WARNING LIGHTS HIGH INTENSITY SHALL BE MOUNTED ON ALL DIAMOND SHAPED POST-MOUNTED CONSTRUCTION SIGNS AND SHALL BE PAID FOR UNDER "BARRICADE WARNING LIGHTS - HIGH INTENSITY".
- 9. EXISTING OR TEMPORARY ILLUMINATION SHALL REMAIN OPERATIONAL AT ALL TIMES.
- 10. THE CONTRACTOR SHALL INSTALL "SIDEWALK CLOSED AHEAD CROSS HERE" SIGN NO. 80-9074 MOUNTED ON CONSTRUCTION BARRICADE DETECTABLE AT THE CLOSEST INTERSECTION IN ADVANCE OF THE WORK WHERE ANY PEDESTRIAN CROSSWALK CURRENTLY EXISTS. WHEN LOCATED WHERE THERE IS NOT AN EXISTING PEDESTRIAN CROSSWALK, THE CONTRACTOR SHALL PROVIDE A TEMPORARY 10' WIDE PAINTED WHITE CROSSWALK AND SIGN NO. 41-4810 (PEDESTRIAN) AND SIGN NO. 41-2607. SIGNAGE AND TEMPORARY CROSSWALK SHALL BE REMOVED AND SIDEWALKS REOPENED TO PEDESTRIAN TRAFFIC AS SOON AS POSSIBLE AND AT THE DIRECTION OF THE ENGINEER. CONTRACTOR SHALL RELOCATE "SIDEWALK CLOSED SIGNAGE" AND TEMPORARY CROSSWALKS AS NEEDED DEPENDING ON ACTIVE WORK LIMITS.

#### SIGN LEGEND:

- A 80-9928 STARTING (DATE) MCKINLEY DR. CLOSED FROM GOVERNOR ST. TO HEATHER LANE
- (B) 80-9919 "MCKINLEY DR."
- 31-1604 "NO RIGHT TURN"
- 31-1603 "NO LEFT TURN"
- 80-9081 "ROAD CLOSED TO THRU TRAFFIC"
- 80-9701 "DETOUR, ARROW (RIGHT)"
- 80-9702 "DETOUR, ARROW (LEFT)"
- 80-9710 (M4-9V) "DETOUR, ARROW (STRAIGHT)"
- 80-9710 (M4-9L) "DETOUR, ARROW (LEFT)"
- 80-9710 (M4-9R) "DETOUR, ARROW (RIGHT)"
- 80-9708 (M4-8a) "END DETOUR"
- 80-9074 (R9-11) "SIDEWALK CLOSED AHEAD W/ARROW (R) CROSS HERE"
- 80-9076 (R9-9) "SIDEWALK CLOSED"
- 80-9703R (M4-9b) "PEDESTRIAN DETOUR W/ARROW"

#### **SYMBOLS LEGEND:**

TRAFFIC DETOUR ROUTE

SINGLE POST MOUNTED SIGN

DOUBLE POST MOUNTED SIGN

TYPE III BARRICADE WITH WARNING LIGHTS

CITY OF NEW BRITAIN OVERLOOK AVENUE / MCKINLEY DRIVE DRAINAGE IMPROVEMENTS BID NO. 4158



NEW BRITAIN, CT 06053

Weston & Sampson

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	oved By:	MJJ	
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**DETOUR AND** MAINTENANCE AND PROTECTION OF TRAFFIC PLAN

#### **LEGEND**



# SUGGESTED CONSTRUCTION SEQUENCE STAGE 1

- 1. INSTALL SEDIMENT & EROSION CONTROL MEASURES.
- 2. BEGIN TRAFFIC DETOURS AND ROAD CLOSURES AS REQUIRED. SEE PLAN C300.
- 3. INSTALL THE 54" RCP BETWEEN APPROX. STA. 0+60 TO 8+70 IN THE DRY WHILE FLOW IS IN EXISTING STORM PIPES.

#### SUGGESTED CONSTRUCTION SEQUENCE STAGE 2 (SITE 1)

- 1. REMOVE THE EXISTING RISER STRUCTURE AT STA 8+90.
- 2. AT STA. 8+90, REMOVE PORTIONS OF 54" AND 60" STORM PIPES TO INSTALL A TEMPORARY STORM PIPE CONNECTING THE 54" AND 60" PIPES ALONG MCKINLEY AVENUE AND 30" STORM PIPE FROM HALE AVENUE
- 3. USE DEWATERING (POTENTIALLY PUMPING) METHODS AS REQUIRED TO MAINTAIN FLOW.
- 4. CONSTRUCT THE CAST-IN-PLACE STRUCTURE 2 AT STA. 8+90.
- 5. CONSTRUCT THE PORTION OF THE 54" RCP FROM STA. 8+70 TO 8+90 TO CONNECT TO STRUCTURE 2.
- 6. USE COFFERDAMS SUCH AS SAND BAGS TO PREVENT BACKFLOW FROM THE STRUCTURE INTO THE PROPOSED 54" RCP
- 7. REMOVE TEMPORARY 54" PIPE ONCE THE STRUCTURE IS FUNCTIONAL TO MAINTAIN FLOW.

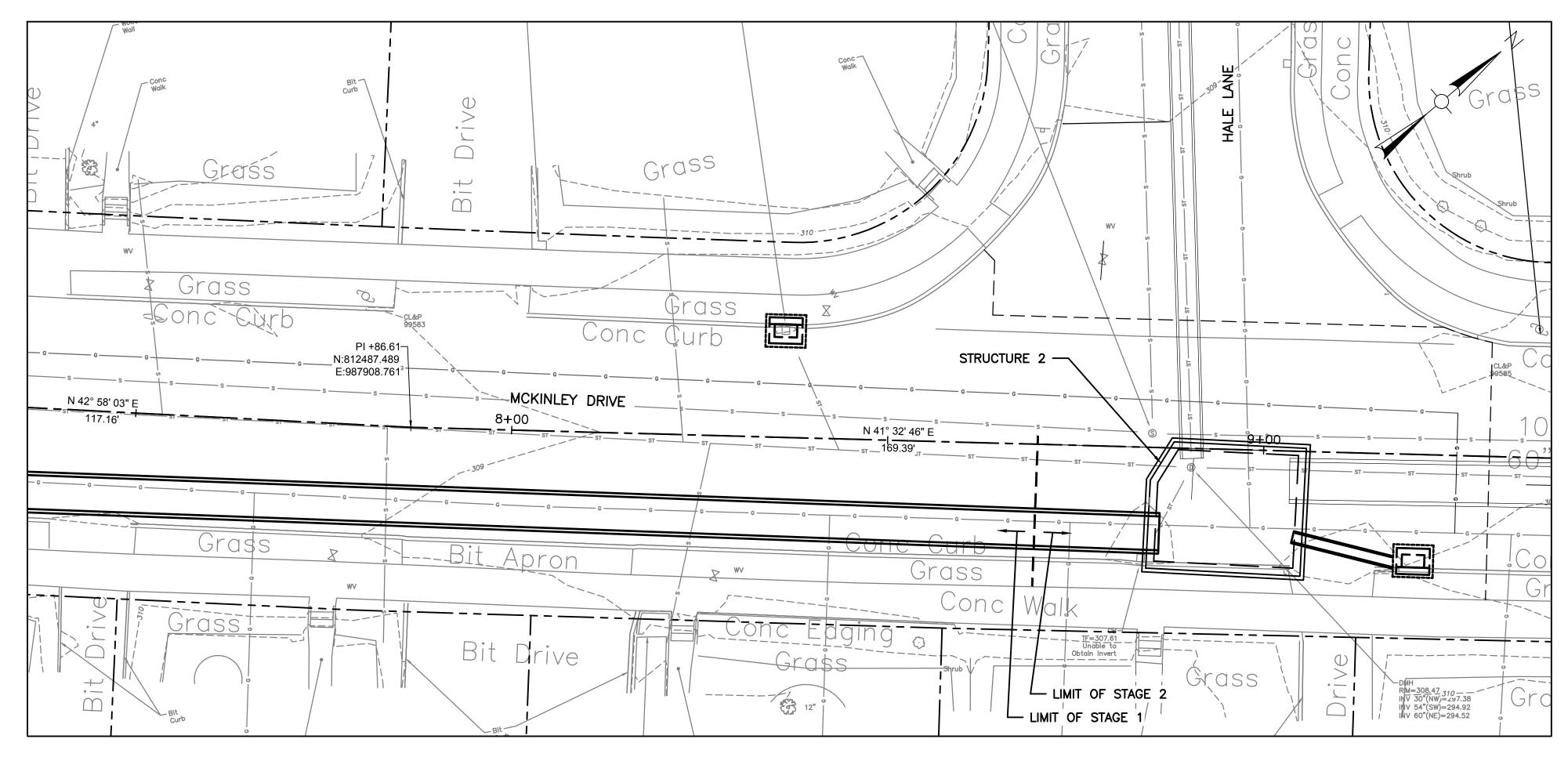
# SUGGESTED CONSTRUCTION SEQUENCE STAGE 3 (SITE 2)

- 1. REMOVE THE EXISTING RISER STRUCTURE AT STA. 0+40.
- 2. AT STA 0+40, REMOVE PORTIONS OF 27", 72", AND 54" TO INSTALL A TEMPORARY PIPE CONNECTING THE 27" STORM (NW), 72" (S) FROM GOVERNOR ST. AND 54".
- 3. USE DEWATERING (POTENTIALLY PUMPING) METHODS FROM STA. 0+40 TO STA. 2+04 AS REQUIRED TO MAINTAIN FLOW
- MAINTAIN FLOW.
  4. CONSTRUCT CAST-IN-PLACE STRUCTURE 1 AT STA. 0+40.
- 5. INSTALL SECTION OF 54" RCP FROM STA. 0+40 TO STA. 0+60. CONNECT THE PIPE TO STRUCTURE 1.
- 6. REMOVE DEWATERING SYSTEM AND COFFERDAM BLOCKING 72" STORM PIPE TO MAINTAIN FLOW THROUGH STRUCTURE 1 AND STORM PIPE.
- 7. REMOVE ALL SEDIMENTATION AND EROSION CONTROL MEASURES ONCE THE PROJECT IS COMPLETE.

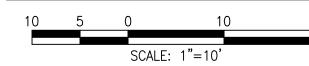
#### ADD ALTERNATE

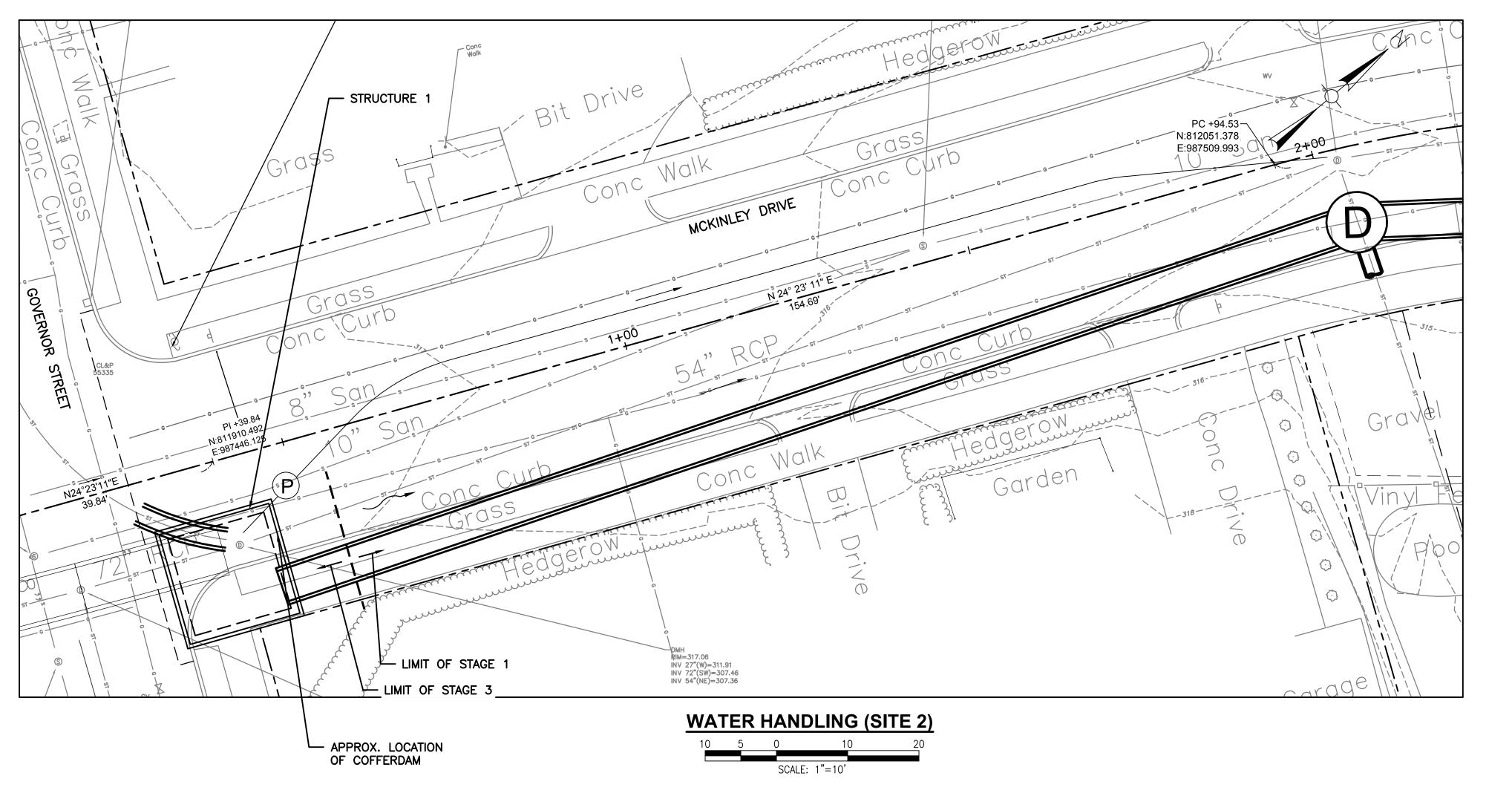
#### STAGE 4

- 1. AFTER NEW 54" RCP IS COMPLETE, ADD COFFERDAM IN FRONT OF ORIGINAL 54" RCP (W) IN STRUCTURE 1. MAINTAIN FLOW IN NEW 54" RCP.
- 2. REMOVE EXISTING 48" RCP, AND INSTALL 54" RCP. MODIFY STRUCTURES AT STATION 2+75 & 5+70 AS
- 3. REMOVE ALL COFFERDAMS AND FLOW DIVERSIONS.



#### **WATER HANDLING (SITE 1)**





CITY OF NEW BRITAIN
OVERLOOK AVENUE / MCKINLEY
DRIVE DRAINAGE IMPROVEMENTS
PHASE 2
BID NO. 4158



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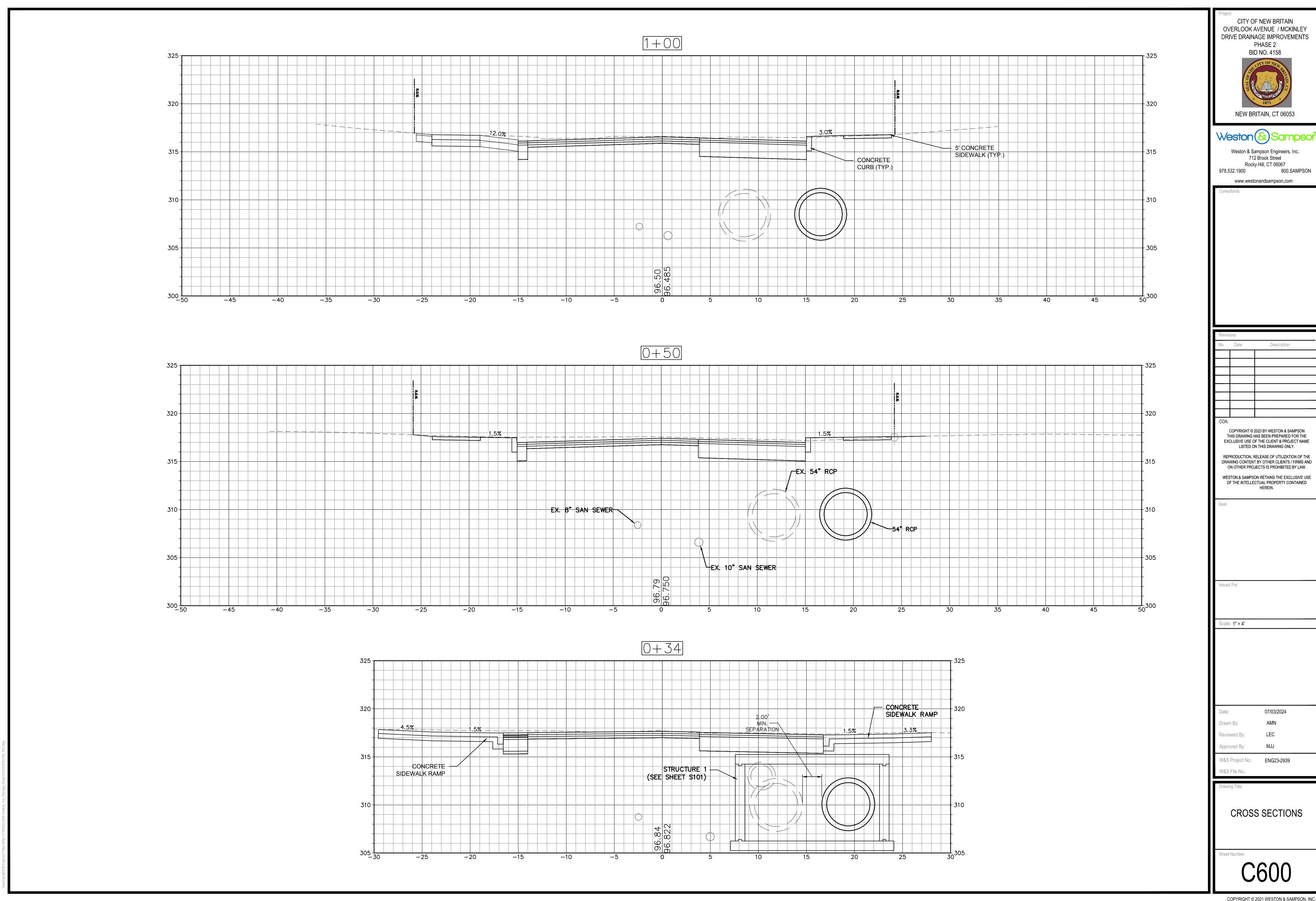
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Reviewed By: LEC

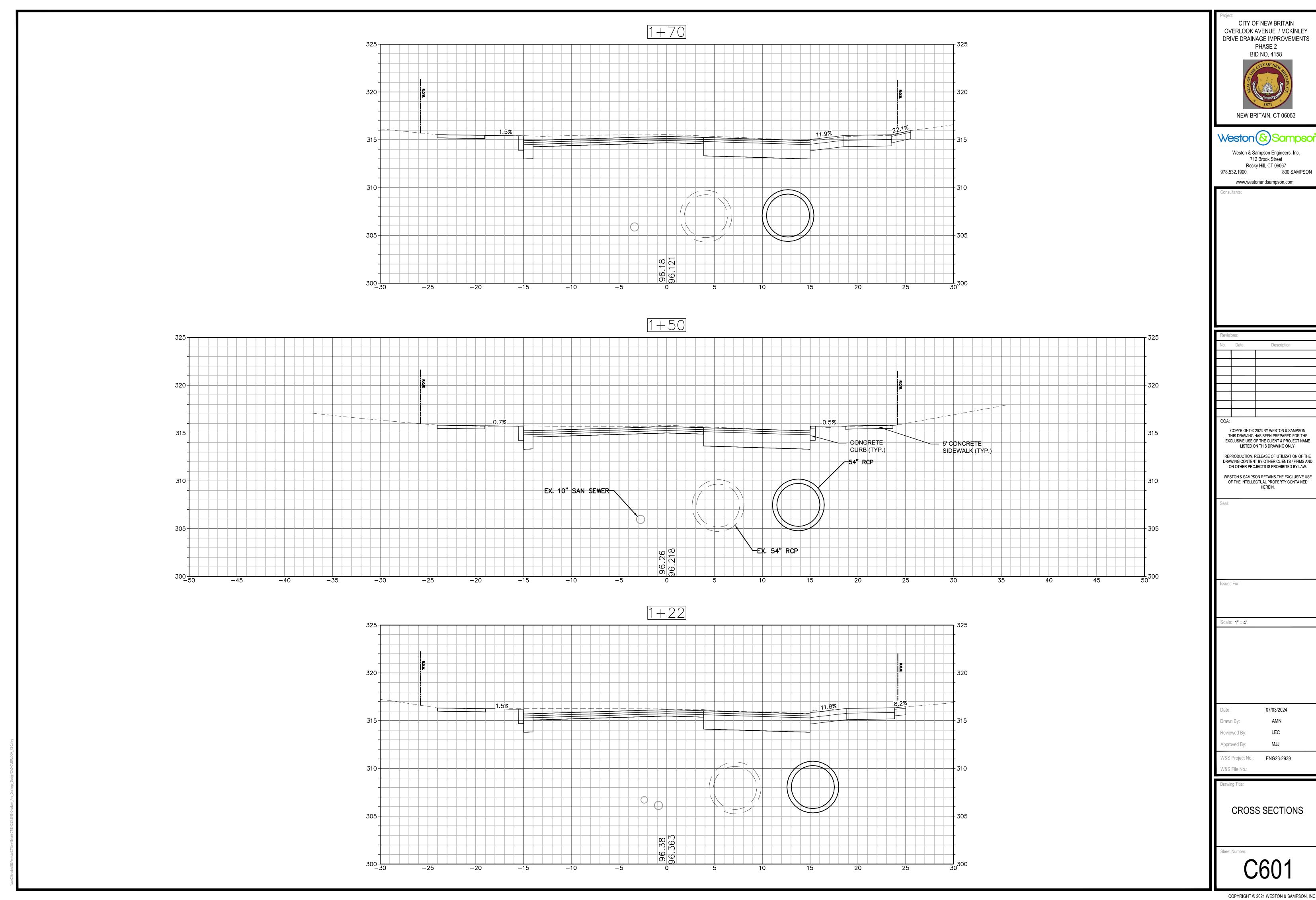
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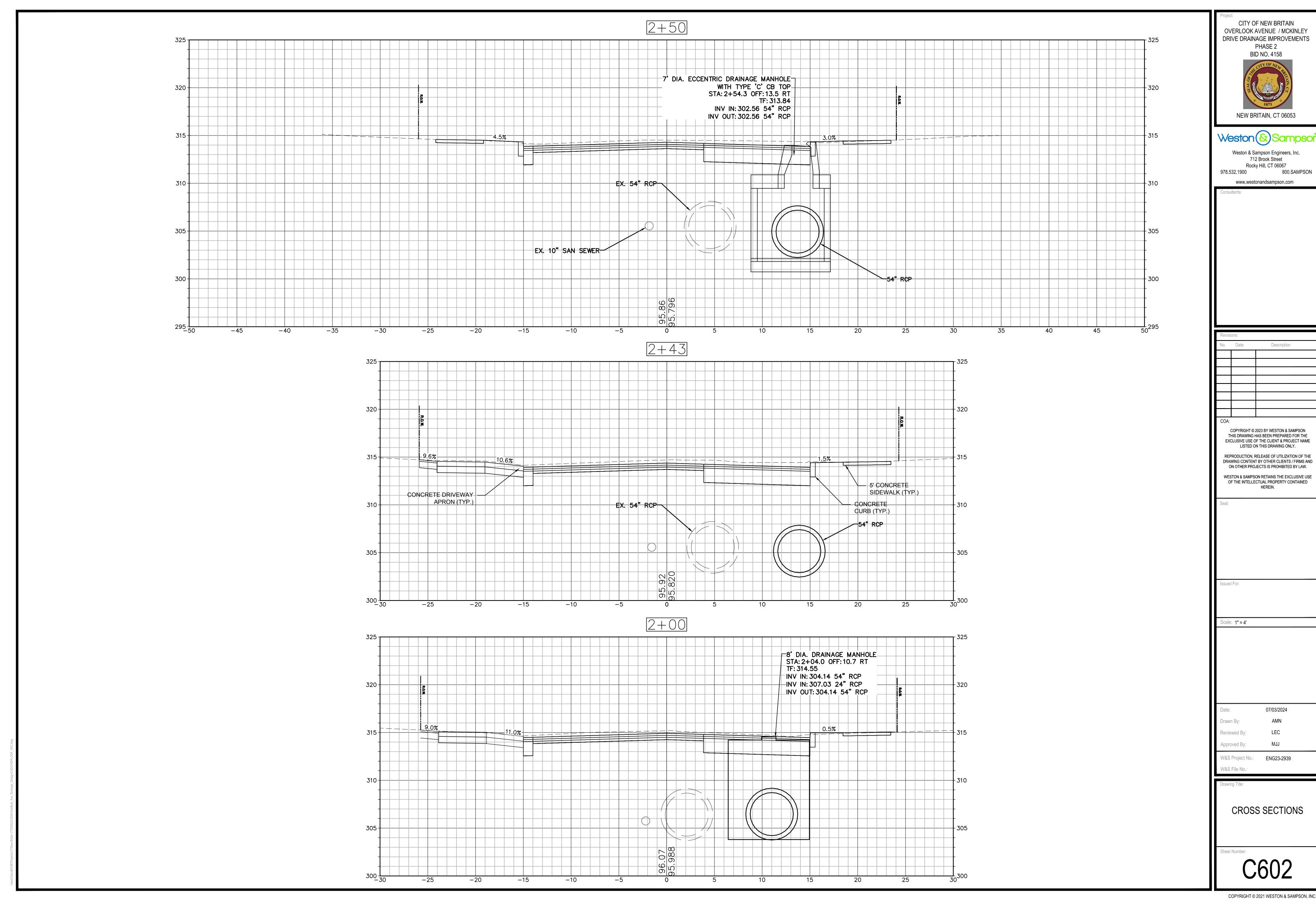
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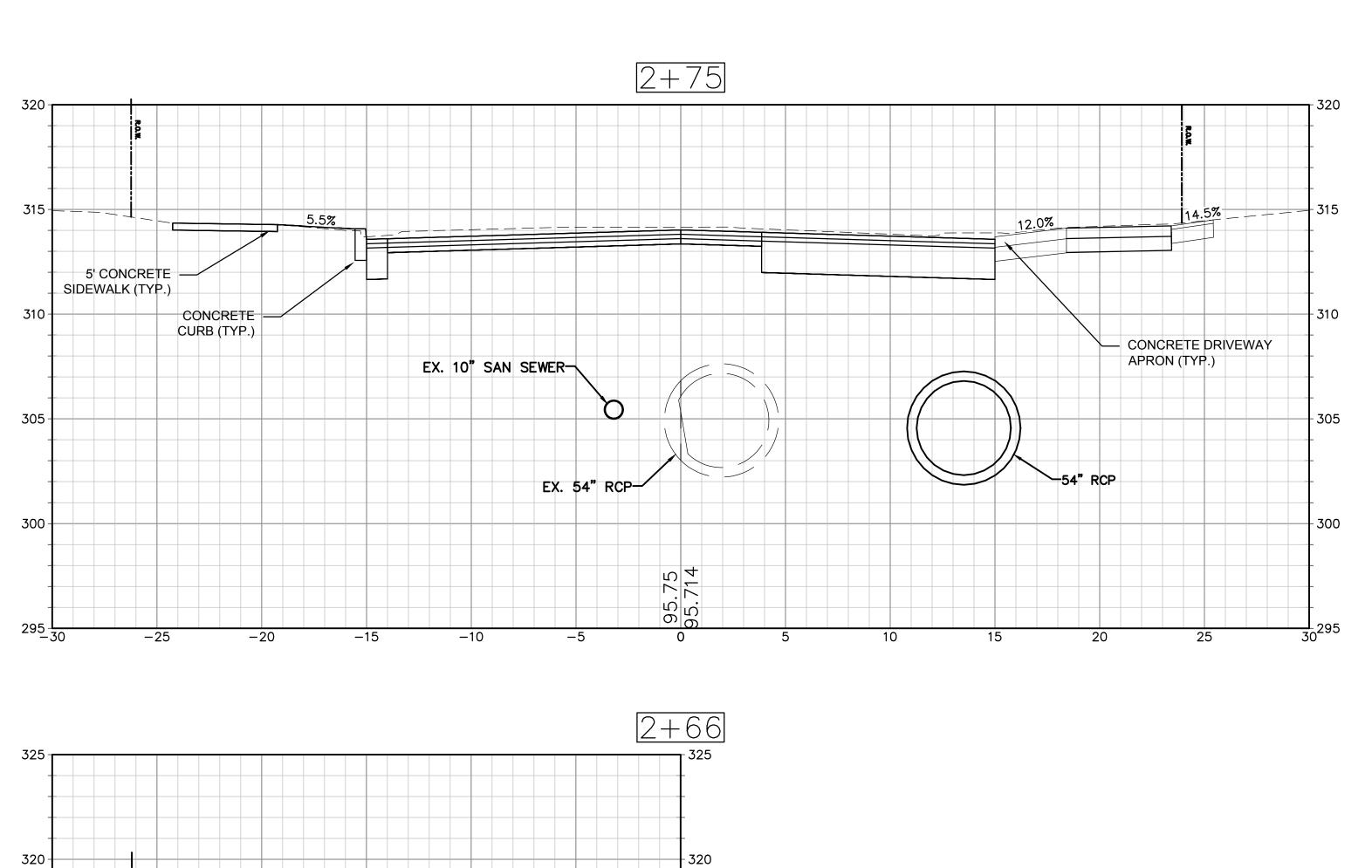
WATER HANDLING DETAILS AND NOTES

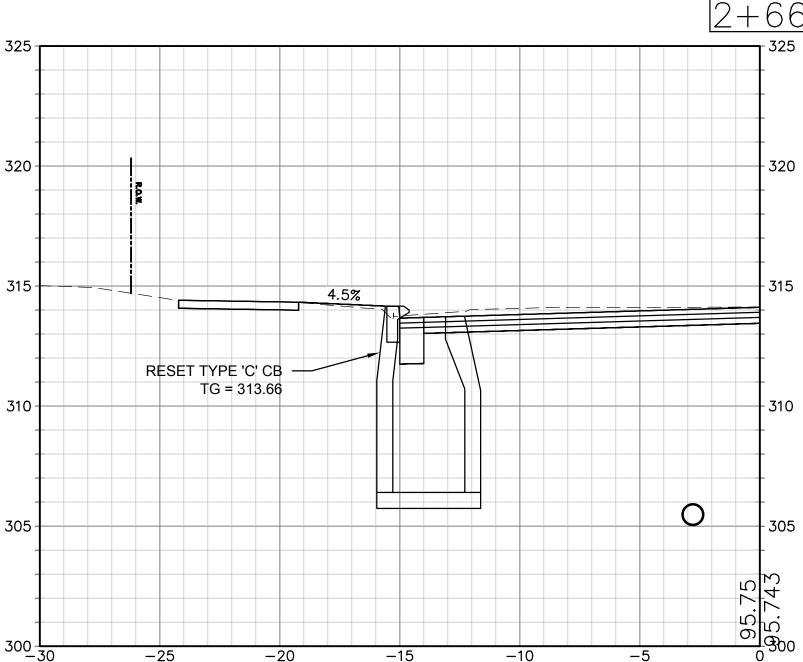


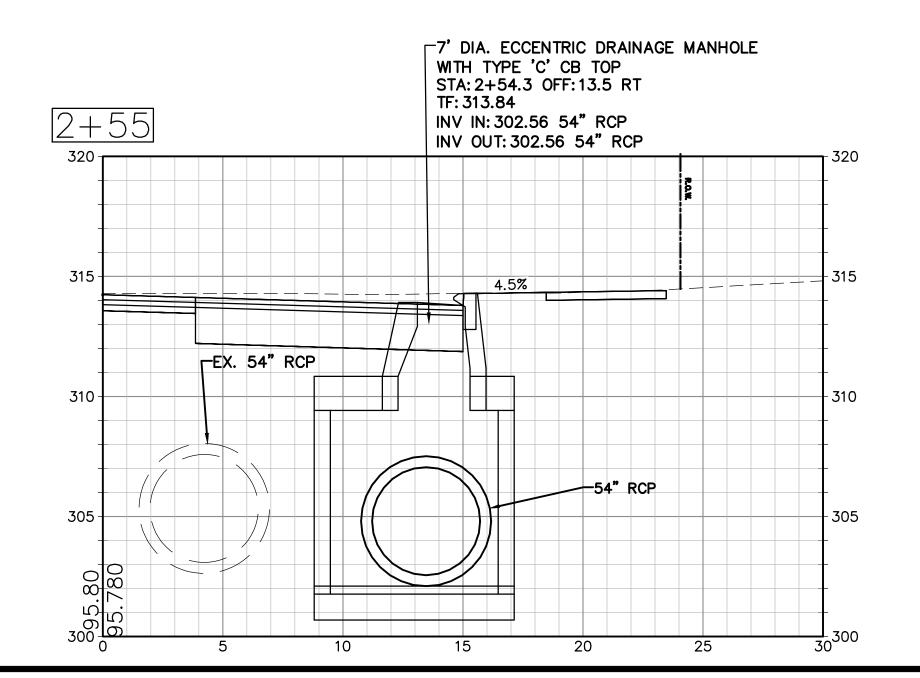
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Approved By: MJJ

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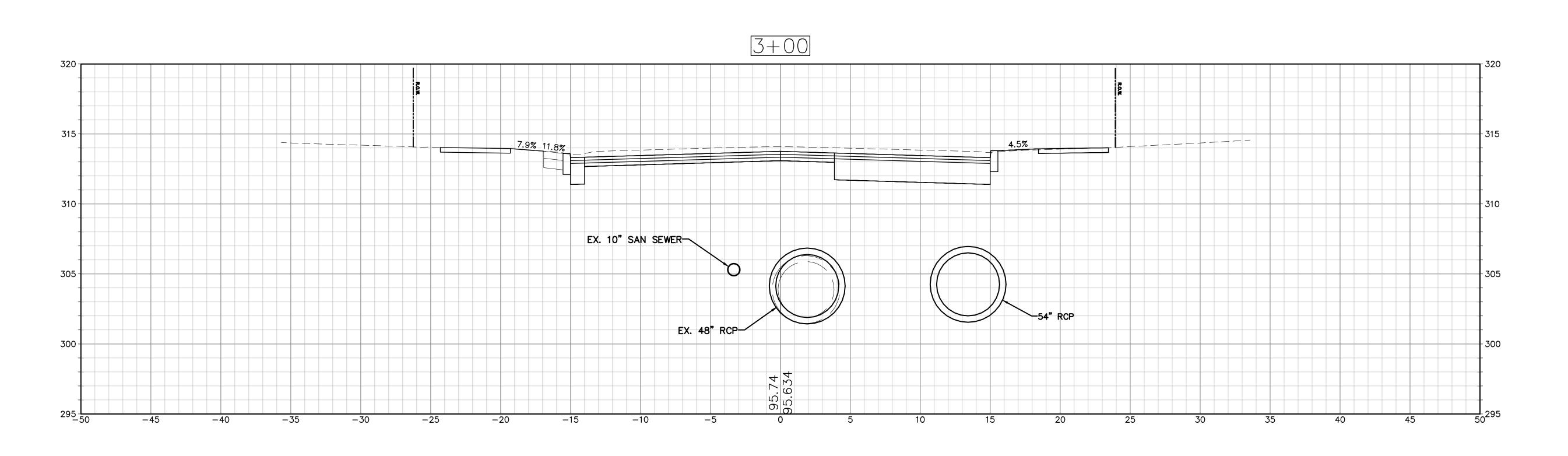
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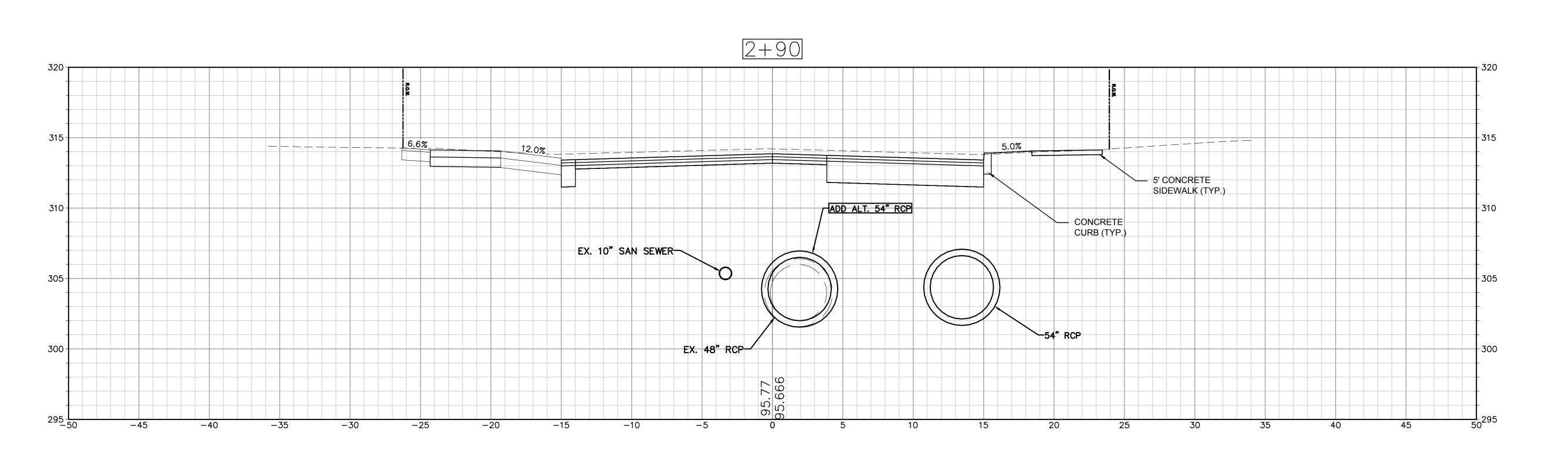
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CITY OF NEW BRITAIN OVERLOOK AVENUE / MCKINLEY DRIVE DRAINAGE IMPROVEMENTS PHASE 2 BID NO. 4158 NEW BRITAIN, CT 06053

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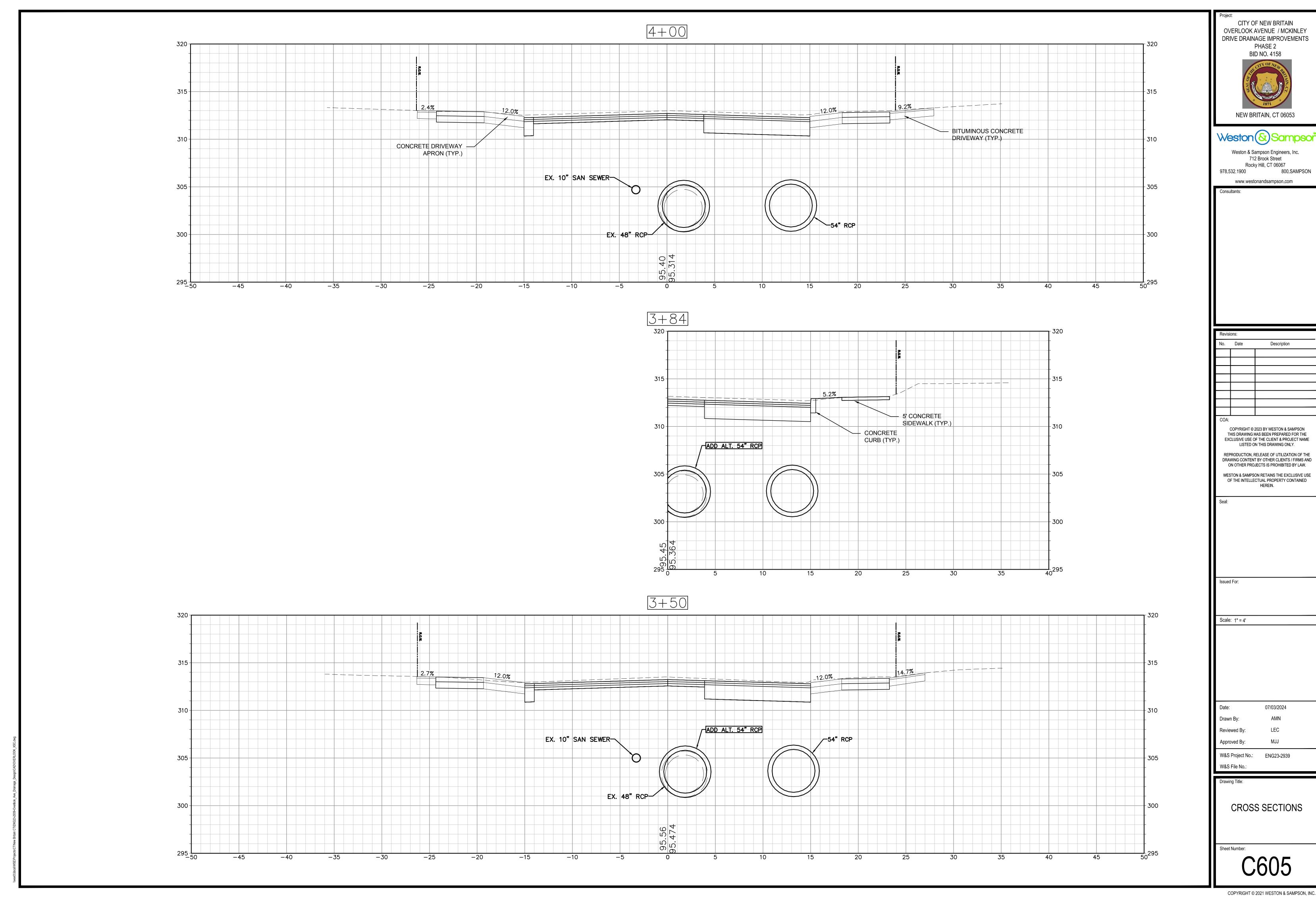
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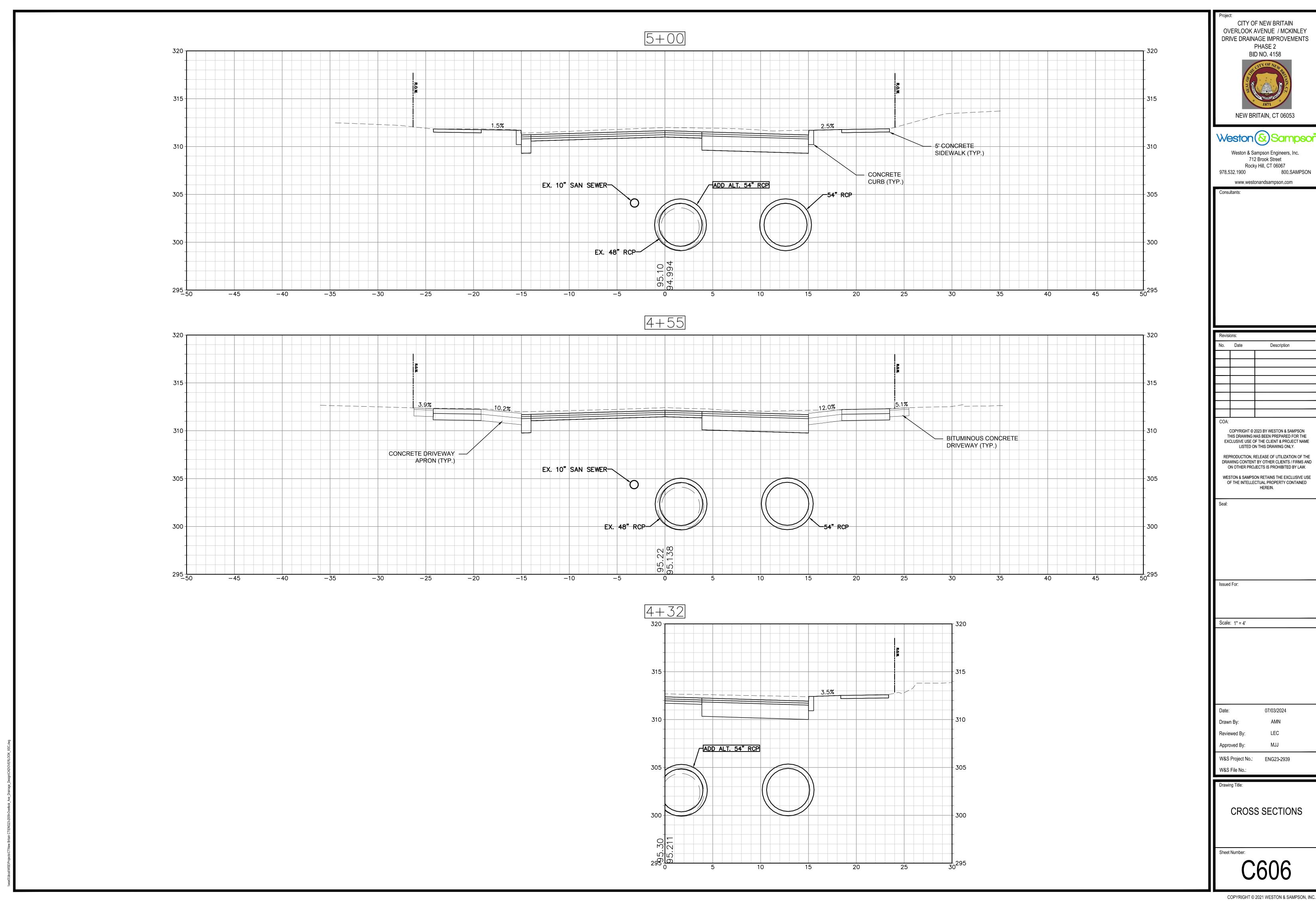
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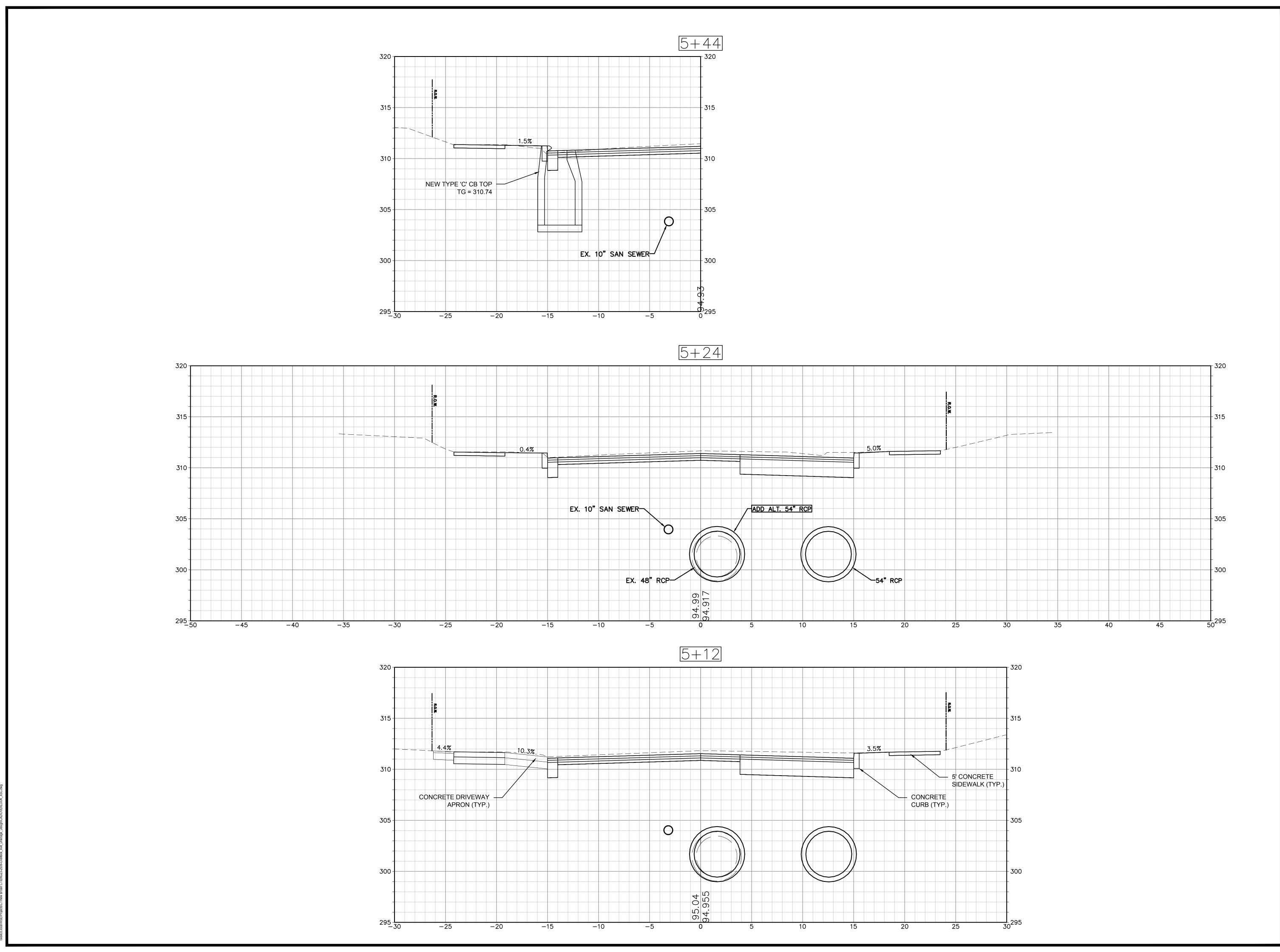


OVERLOOK AVENUE / MCKINLEY DRIVE DRAINAGE IMPROVEMENTS



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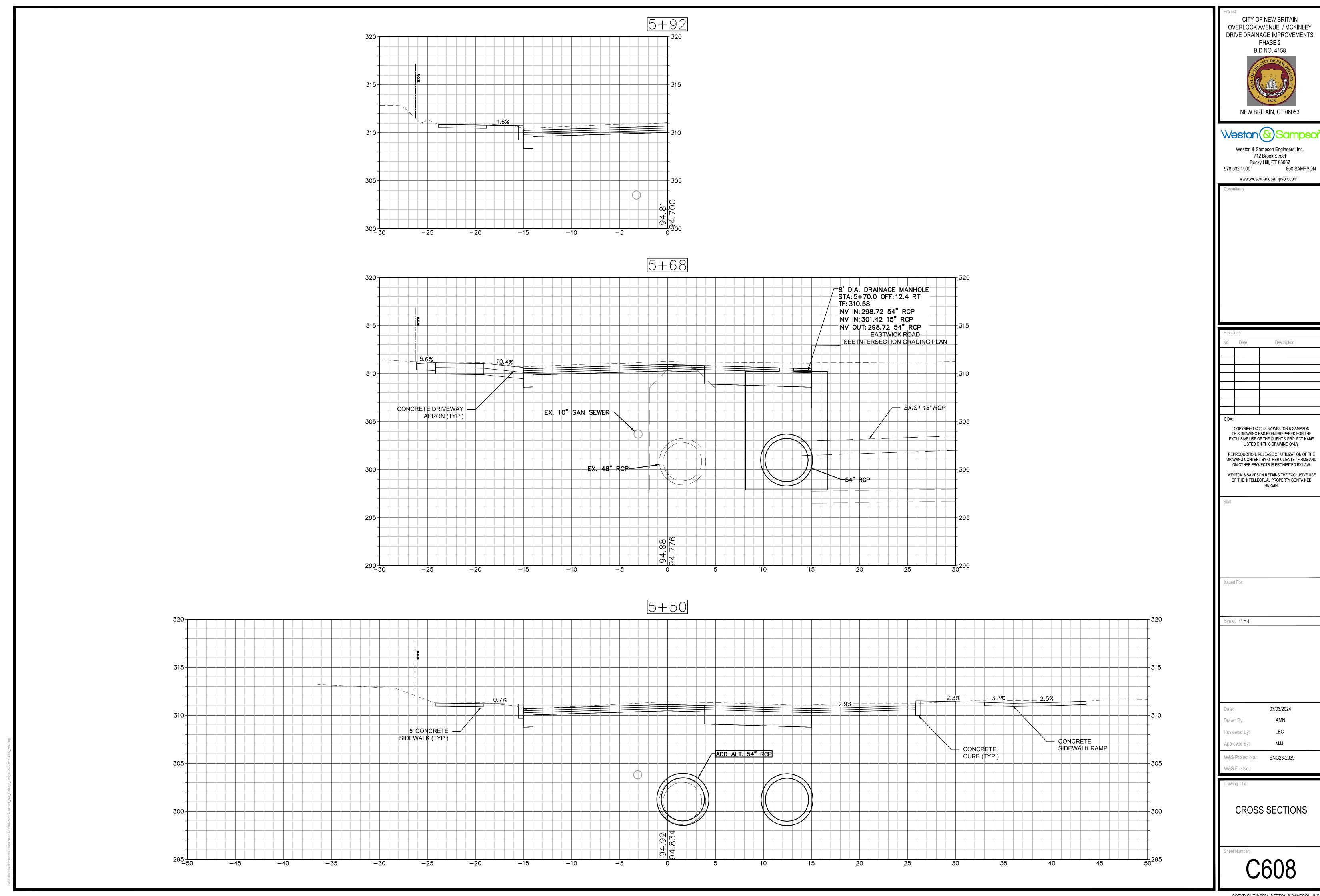
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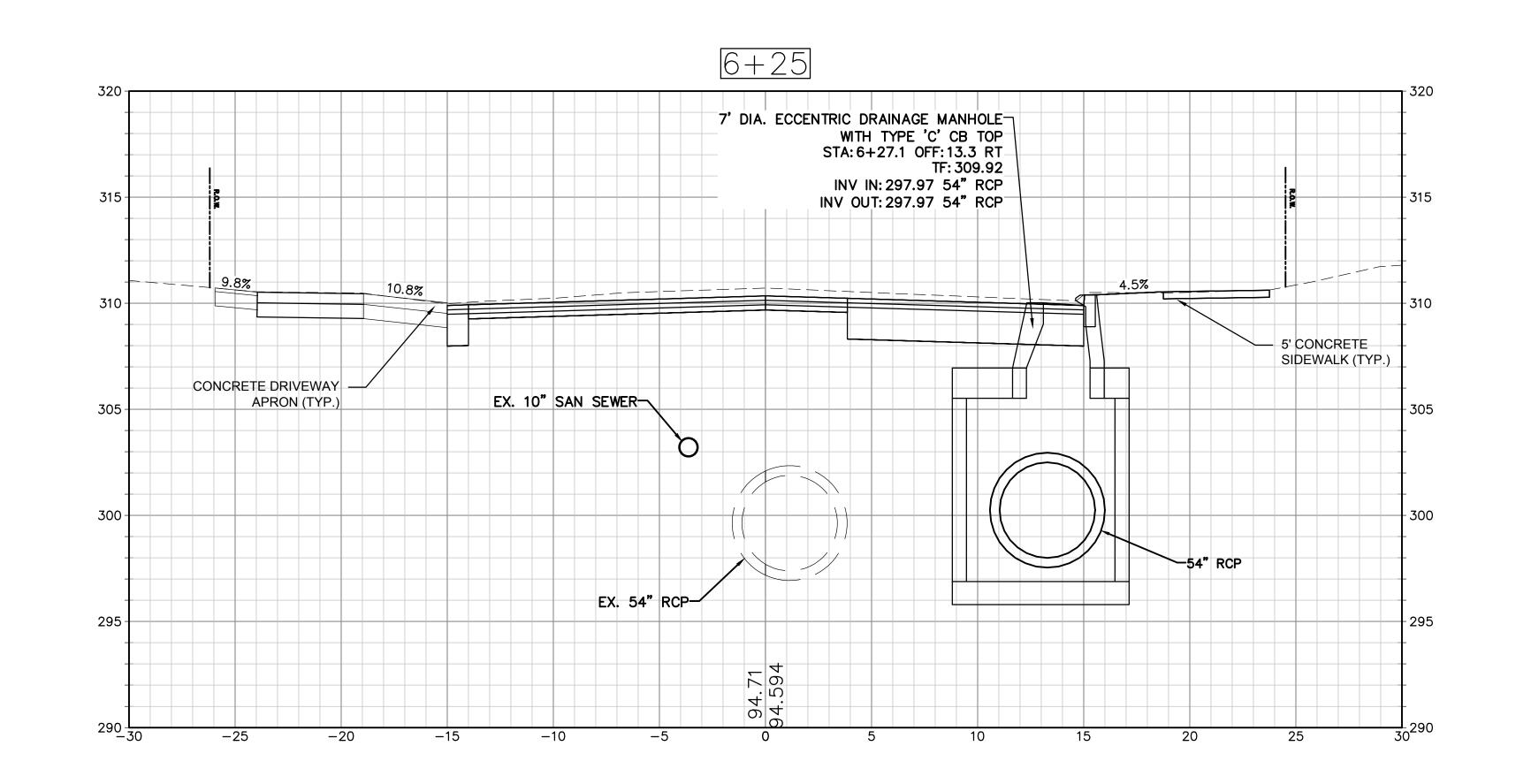
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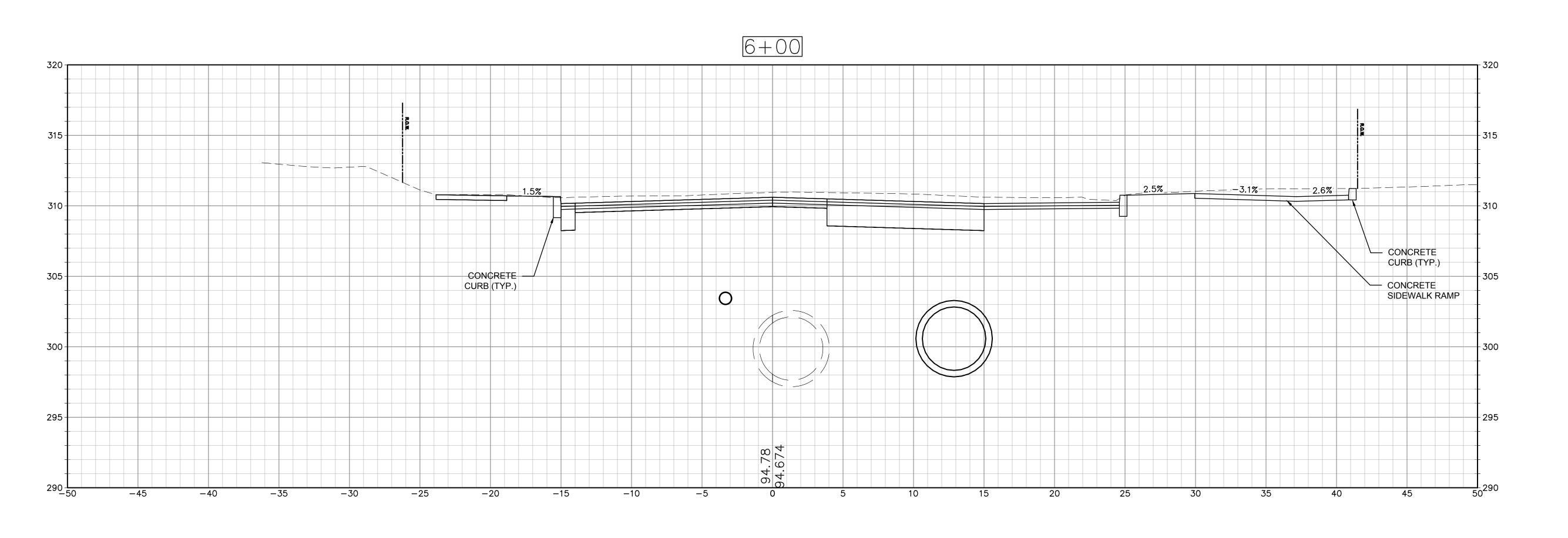
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DRIVE DRAINAGE IMPROVEMENTS
PHASE 2
BID NO. 4158

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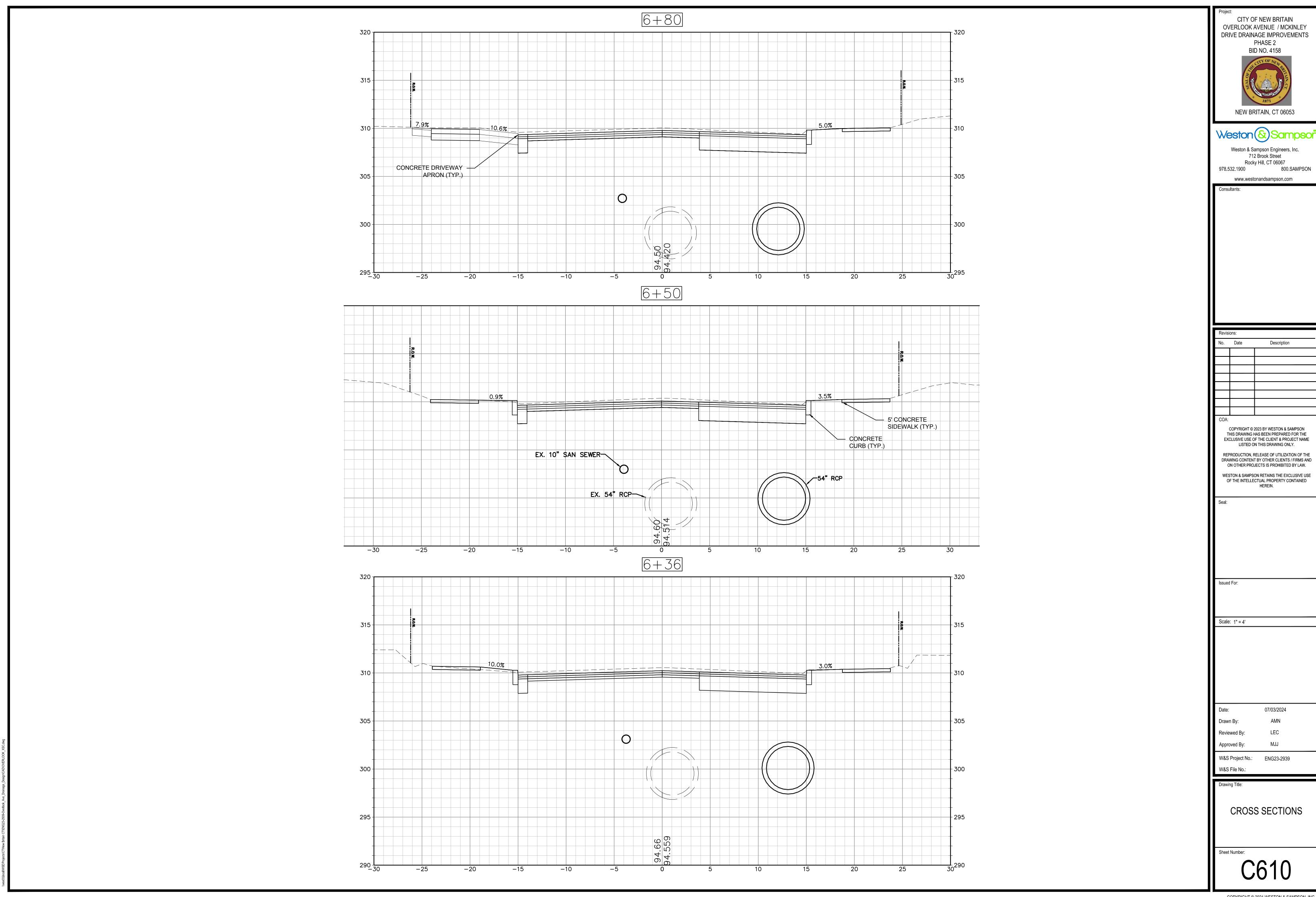
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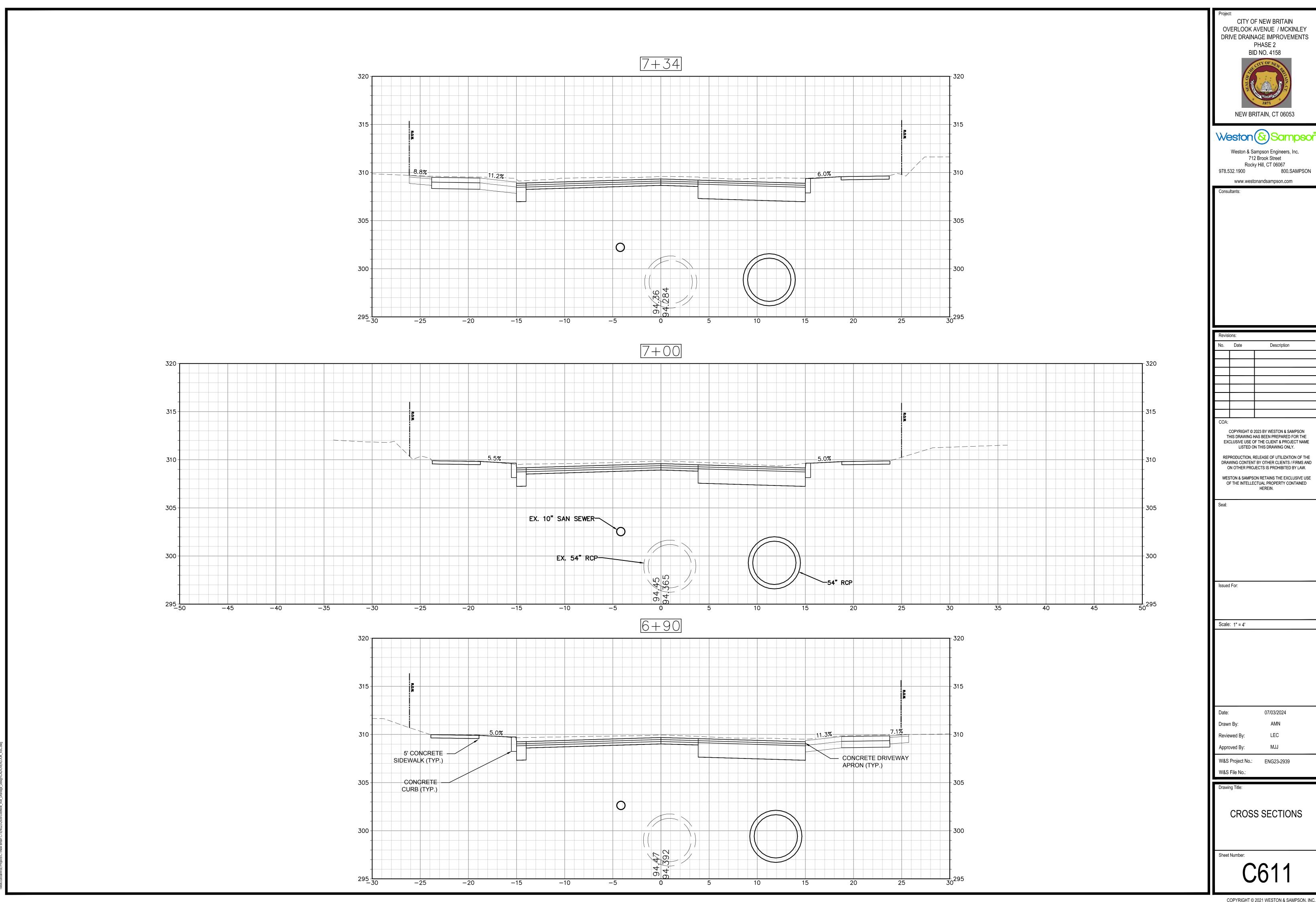


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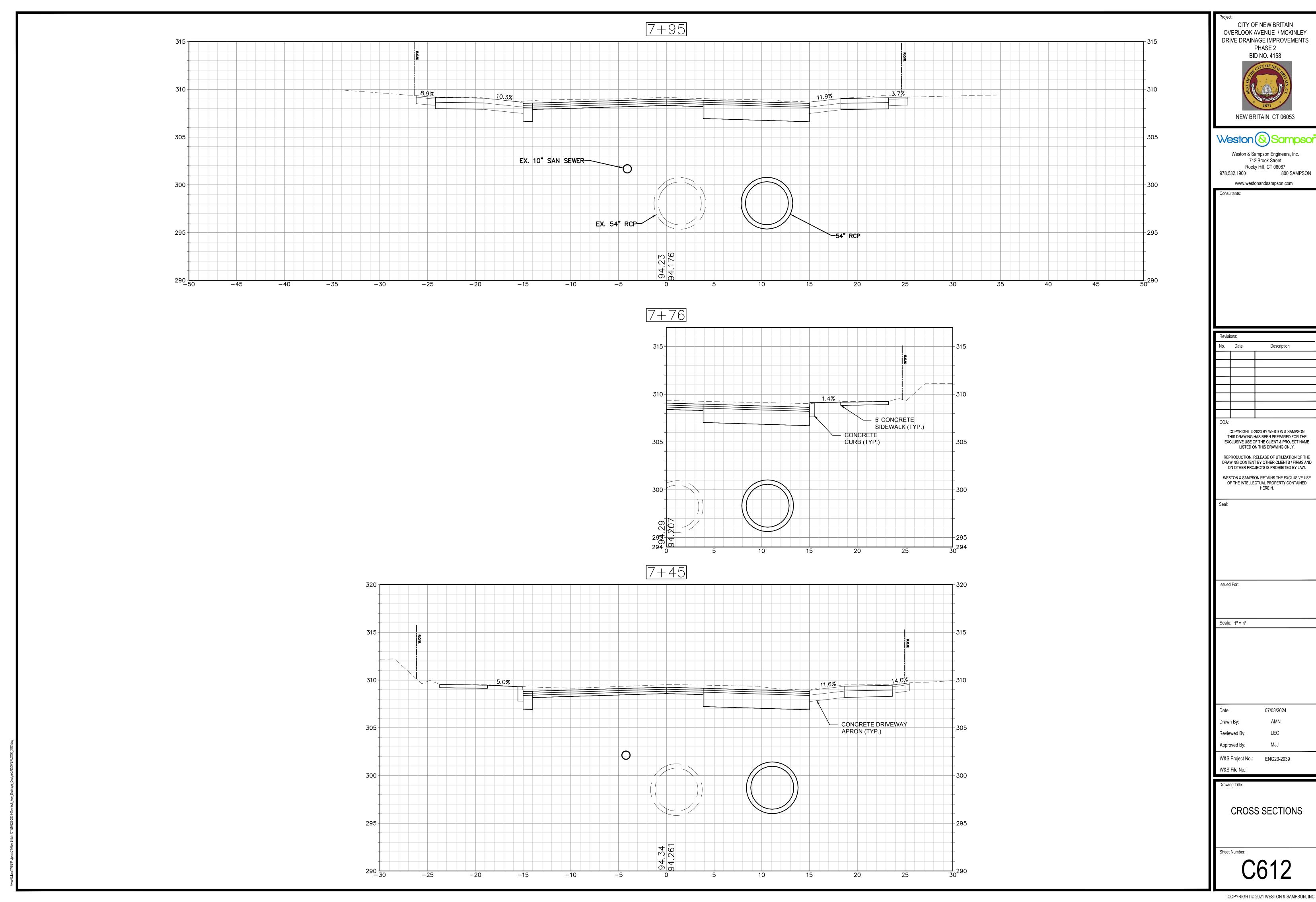
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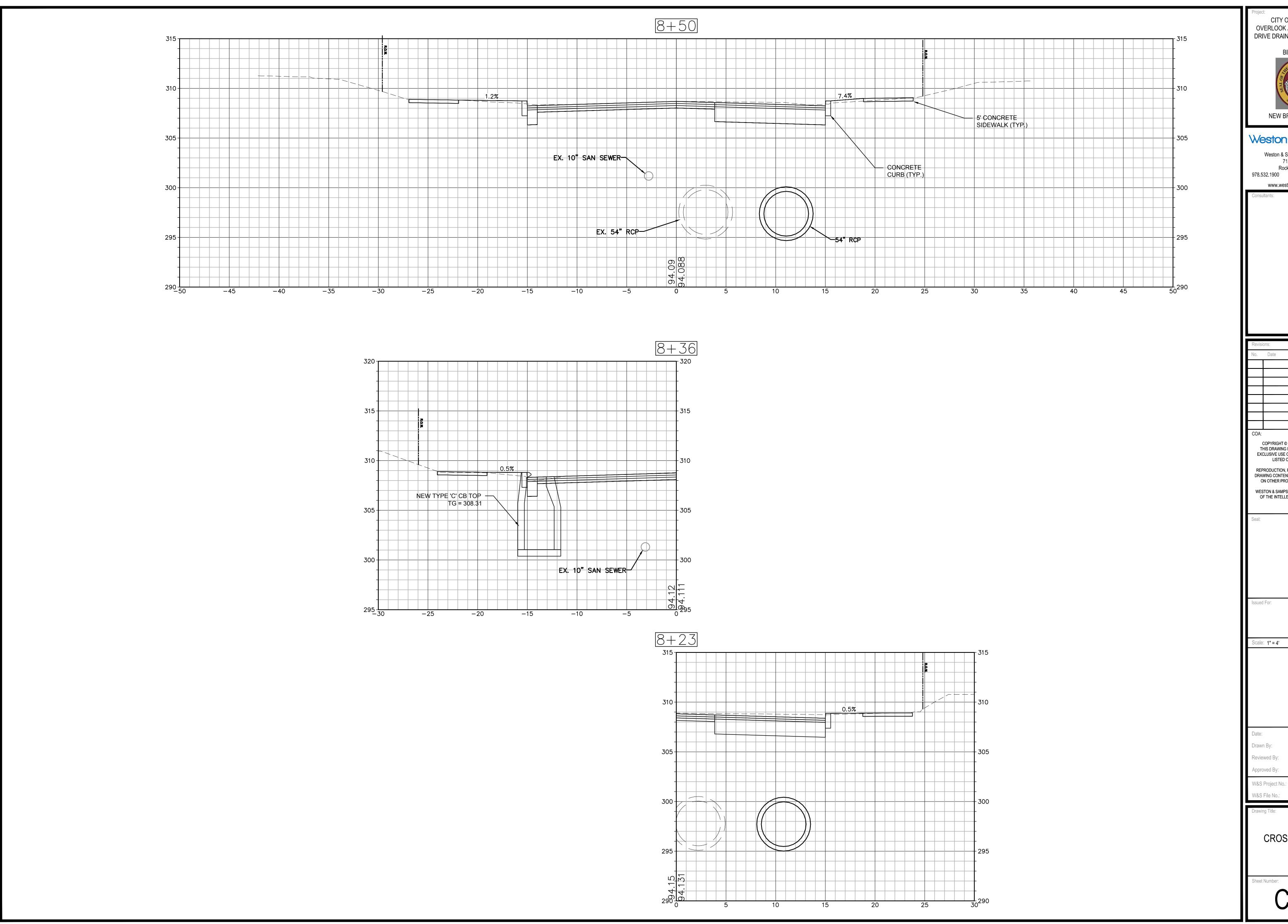
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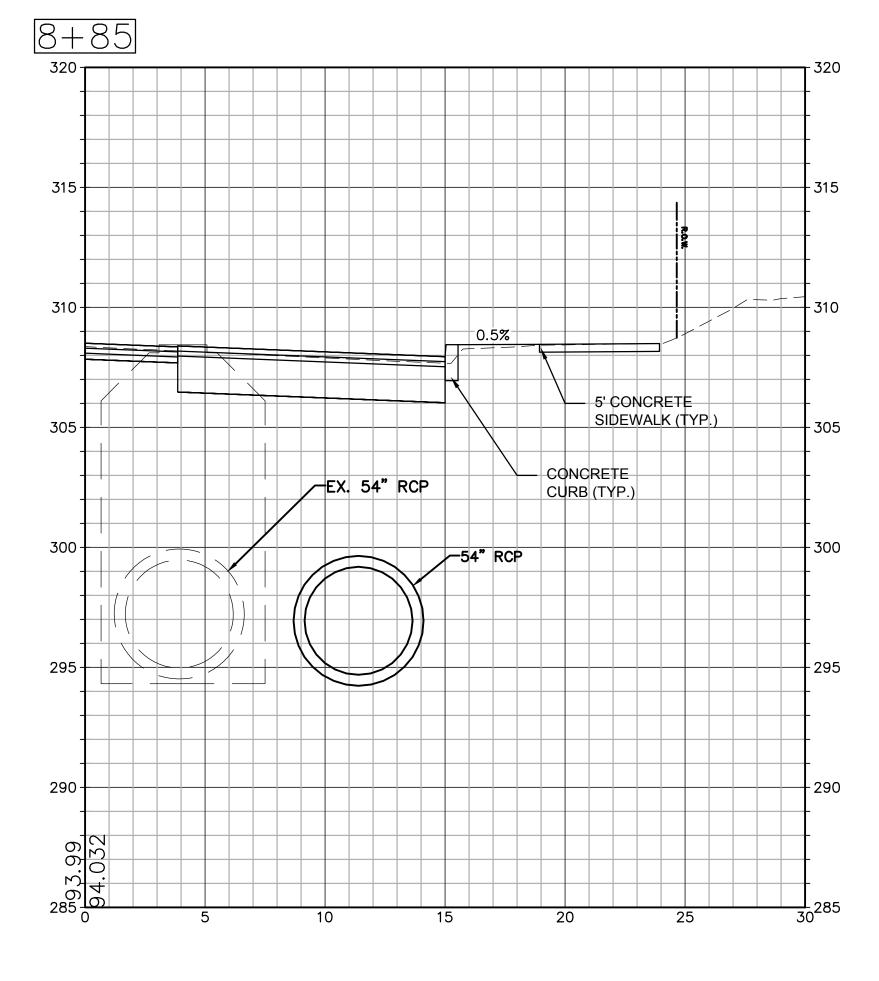
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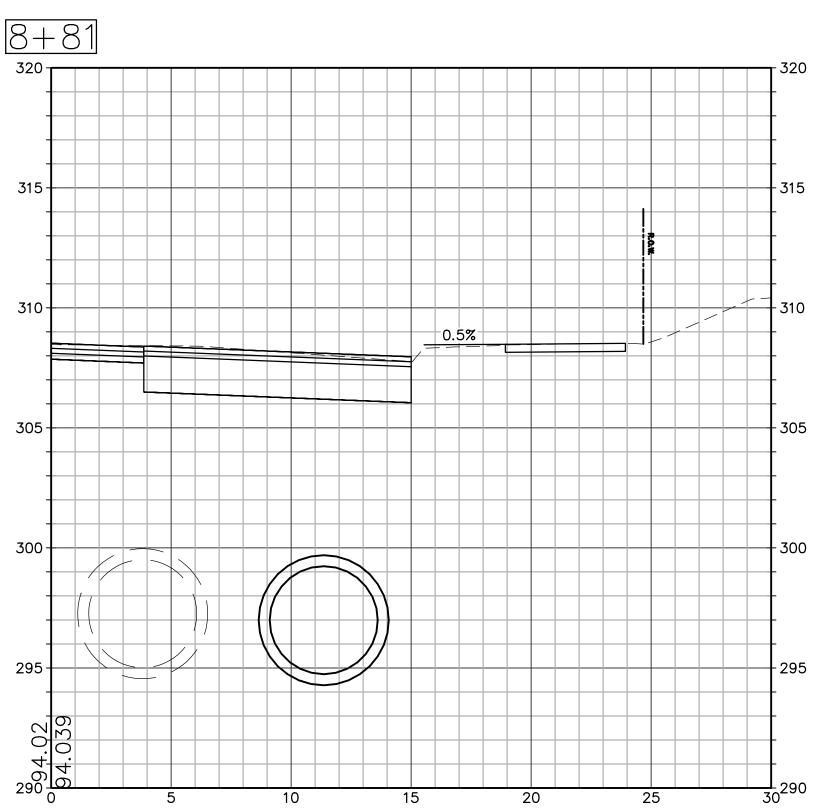
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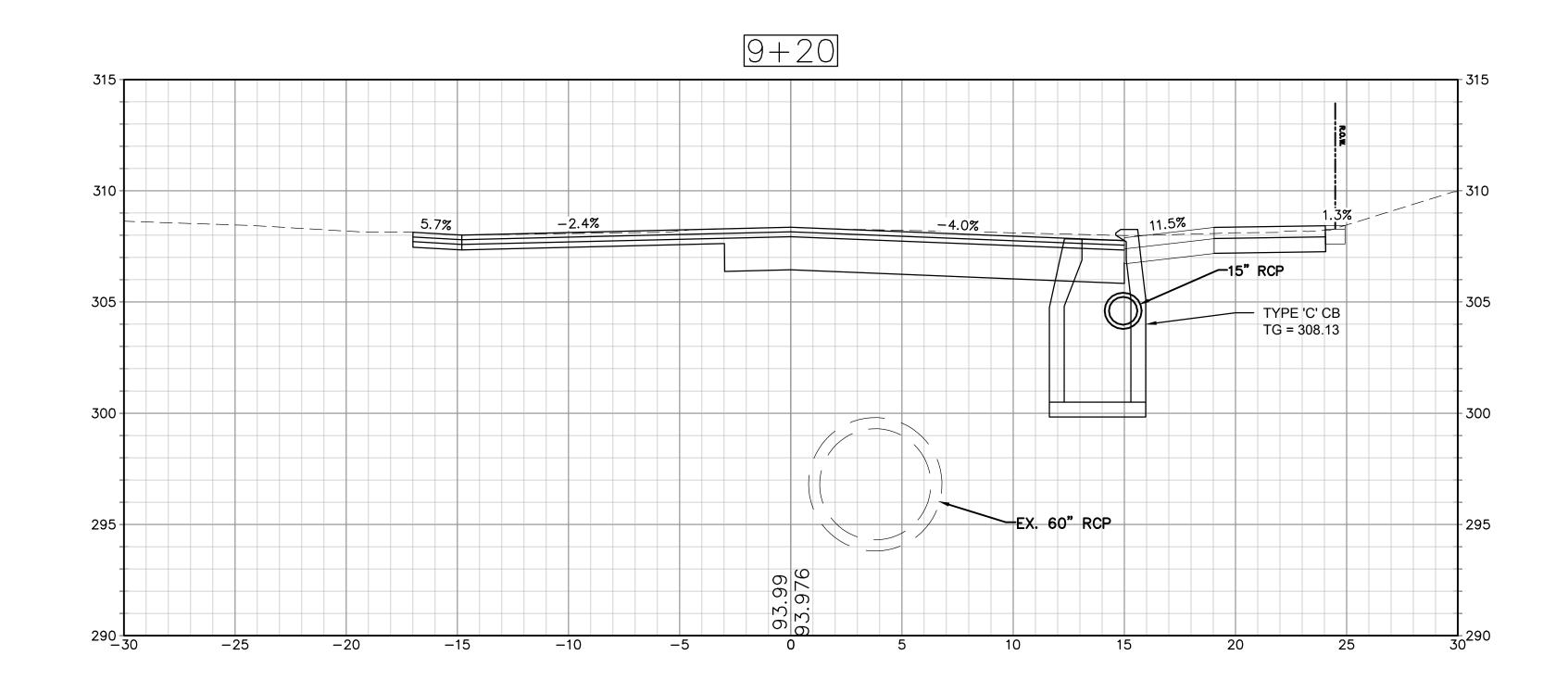
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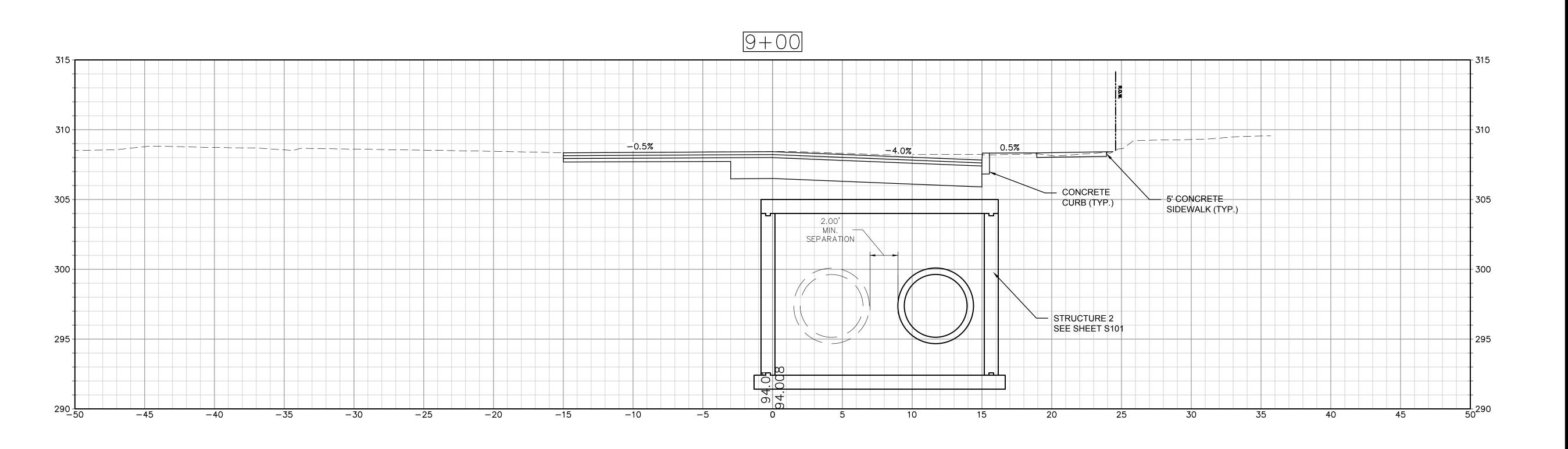
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#### **GENERAL NOTES:**

SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 818 (2020) WITH SUPPLEMENTAL SPECIFICATIONS (JULY 2023) AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN 9TH EDITION (2020), AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL (2019).

#### MATERIAL STRENGTHS:

...BASED ON f'c = 5000 PSI PCC05581 ......

REINFORCEMENT (ASTM A615 GRADE 60).....fy = 60,000 PSI

#### LIVE LOAD: HL-93, LEGAL AND PERMIT VEHICLES

FOUNDATION PRESSURES: THE VARIOUS LOADINGS NOTED ON THE SUBSTRUCTURE PLAN SHEETS REFER TO THE GROUP LOADS GIVEN IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

DIMENSIONS: WHEN DECIMAL DIMENSIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZEROS.

EXISTING DIMENSIONS: DIMENSIONS OF THE EXISTING STRUCTURE SHOWN ON THE PLANS ARE FOR GENERAL REFERENCE ONLY. THEY HAVE BEEN TAKEN FROM ORIGINAL DESIGN DRAWINGS AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL TAKE ALL MEASUREMENTS NECESSARY TO ASSURE PROPER FIT OF THE FINISHED WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY.

THE FOLLOWING PAY ITEMS AND CONCRETE CLASSES ARE REQUIRED FOR CAST-IN-PLACE CONCRETE BRIDGE COMPONENTS:

1			
	ITEM	BRIDGE COMPONENTS	PCC CLASS
	STRUCTURAL REPAIR CONCRETE	BOX CULVERTS	PCC05581

#### JOINT SEAL: SEE SPECIAL PROVISIONS

EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED TO 1"X1" UNLESS DIMENSIONED OTHERWISE.

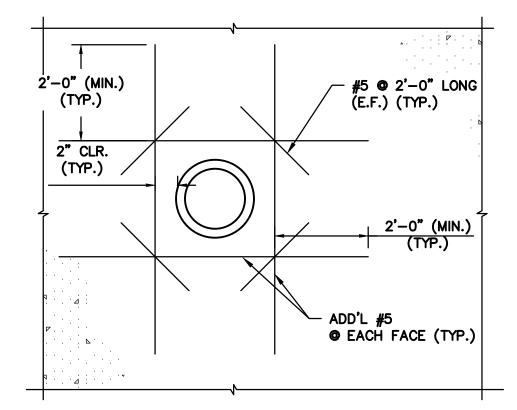
CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE TWO INCHES COVER UNLESS DIMENSIONED OTHERWISE.

REINFORCEMENT: ALL REINFORCEMENT SHALL GALVANIZED AFTER FABRICATION UNLESS NOTED OTHERWISE. ALL REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF ASTM A767, CLASS 1, INCLUDING SUPPLEMENTAL REQUIREMENTS. THE COST OF FURNISHING AND PLACING THIS REINFORCEMENT SHALL BE INCLUDED IN THE ITEM "DEFORMED STEEL BARS - GALVANIZED."

FOUNDATION LOADS: THE VARIOUS GROUP LOADINGS FOUND ON THE SUBSTRUCTURE PLAN SHEETS REFER TO THE GROUP LOAD AS GIVEN IN THE AASHTO LRFD BRIDGE DESIGN MANUAL (2017).

PREFORMED EXPANSION JOINT FILLER: THE COST OF FURNISHING AND INSTALLING PREFORMED EXPANSION JOINT FILLER SHALL BE INCLUDED IN THE COST OF THE ITEM "CAST-IN-PLACE CONCRETE BOX CULVERT"

UTILITIES: THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE NOT WARRANTED TO BE EXACT, NOR IS IT WARRANTED THAT ALL UNDERGROUND PIPES, CABLES, CONDUITS OR OTHER UTILITIES ARE SHOWN. THE ACTUAL LOCATIONS OF UTILITIES SHALL BE DETERMINED BY THE CONTRACTOR. ALL UTILITY COMPANIES SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY WORK AFFECTING UTILITIES.



ADDITIONAL REINFORCEMENT AT PIPE PENETRATION SCALE: 1/2" = 1'-0"

CITY OF NEW BRITAIN OVERLOOK AVENUE / MCKINLEY DRIVE DRAINAGE IMPROVEMENTS PHASE 2 BID NO. 4158

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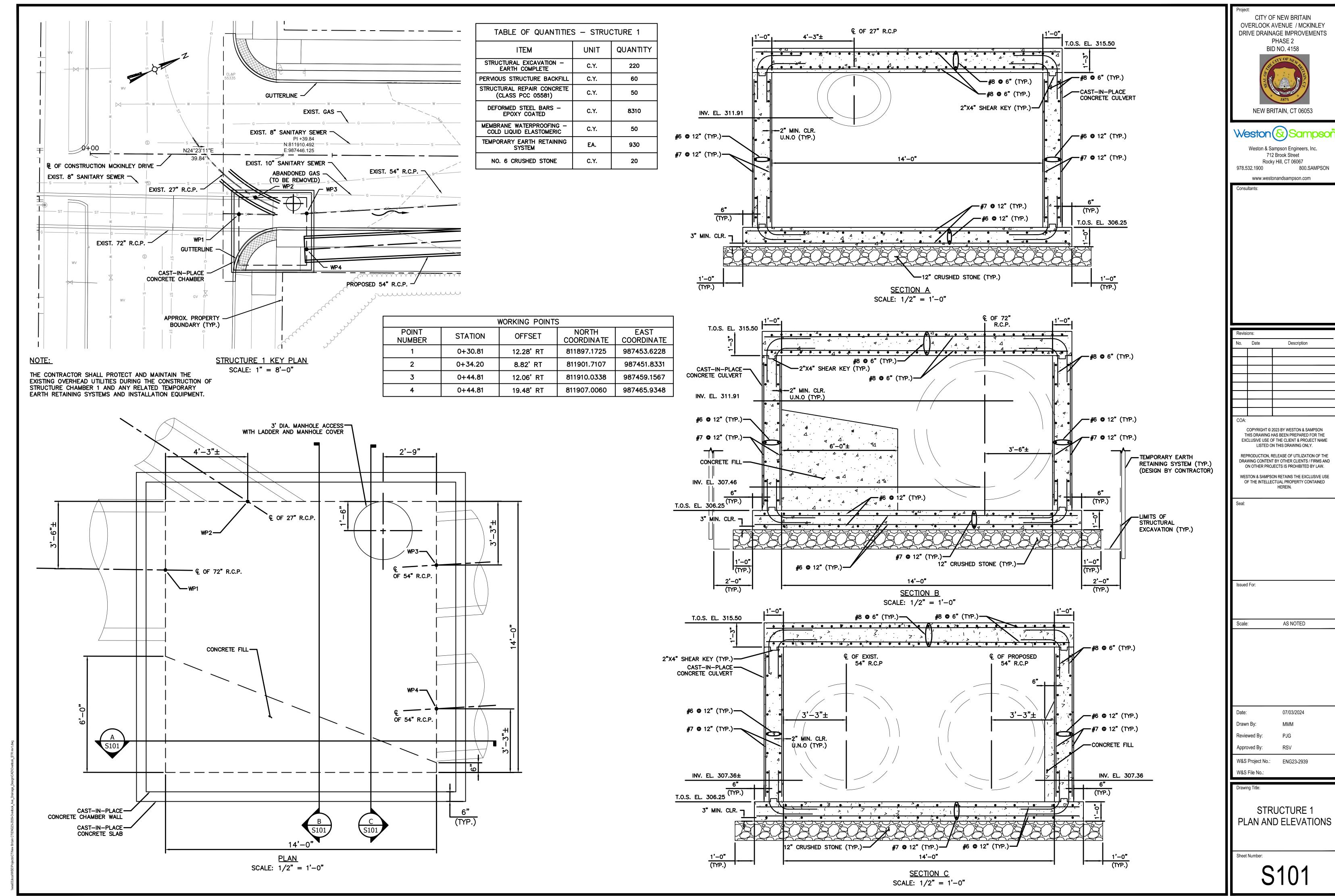
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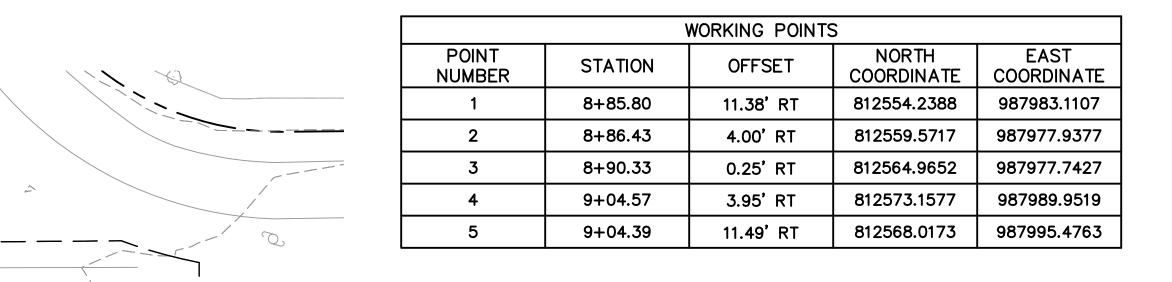
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STRUCTURAL GENERAL





SCALE: 1/4" = 1'-0"

#8 **©** 6" (TYP.)

INV. EL. 294.92

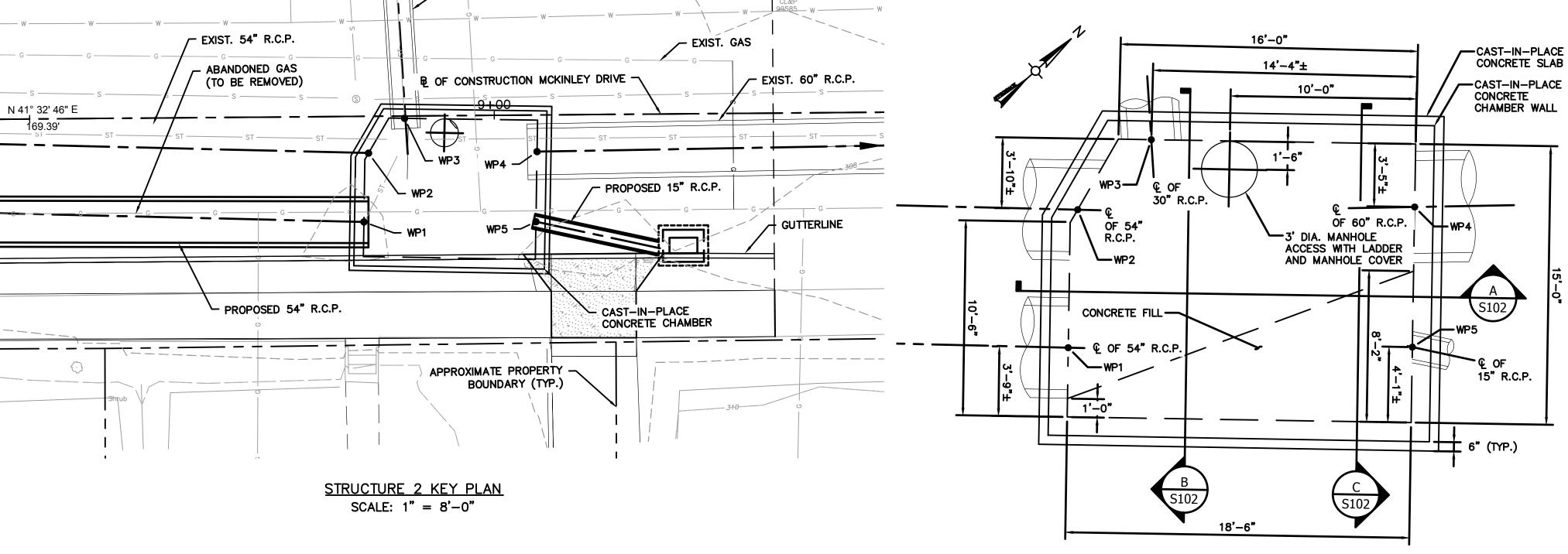
6" (TYP.)

3'-10"±

SECTION B

SCALE: 1/4" = 1'-0"

TABLE OF QUANTITIES - STRUCTURE 2			
ITEM	UNIT	QUANTITY	
STRUCTURAL EXCAVATION — EARTH COMPLETE	C.Y.	340	
PERVIOUS STRUCTURE BACKFILL	C.Y.	100	
STRUCTURAL REPAIR CONCRETE (CLASS PCC 05581)	C.Y.	90	
DEFORMED STEEL BARS — EPOXY COATED	C.Y.	14430	
MEMBRANE WATERPROOFING - COLD LIQUID ELASTOMERIC	C.Y.	70	
TEMPORARY EARTH RETAINING SYSTEM	EA.	1280	
NO. 6 CRUSHED STONE	C.Y.	20	
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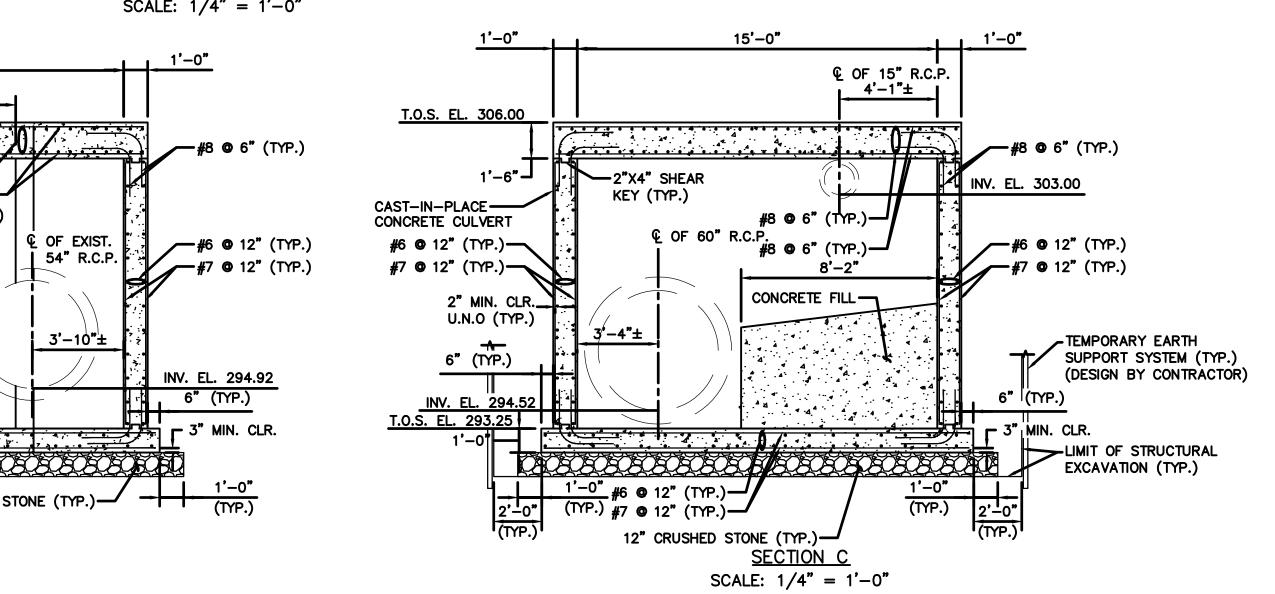


. Table 3' DIA. MANHOLE ACCESS 1'-0" 15**'**–0" 10'-6" T.O.S. EL. 306.00 T.O.S. EL. 306.00 #8 **©** 6" (TYP.) #8 **©** 6" (TYP.)— #8 **©** 6" (TYP.)— 2"X4" SHEAR-CAST-IN-PLACE CONCRETE CULVERT CAST-IN-PLACE CONCRETE CULVERT KEY (TYP.) #8 **©** 6" (TYP.)— ─\_2"X4" SHEAR KEY (TYP.) 2" MIN. CLR. U.N.O (TYP.) 2" MIN. CLR. U.N.O (TYP.) € OF 30" R.C.P. € OF 54" R.C.P. —#6 **©** 12" (TYP.) #6 @ 12" (TYP.)— #6 @ 12" (TYP.)— #7 **©** 12" (TYP.) #7 @ 12" (TYP.)— #7 @ 12" (TYP.)— CONCRETE FILL 14'-4"± INV. EL. 297.38 (TYP.) (TYP.) INV. EL. 294.67 (TYP.) T.O.S. EL. 293.25 T.O.S. EL. 293.25 #6 © 12" (TYP.) 12" CRUSHED STONE (TYP.) (TYP.) - 3" MIN. CLR. 1'-0" 12" CRUSHED STONE (TYP.) #6 @ 12" (TYP.)—

SECTION A
SCALE: 1/4" = 1'-0"

✓ EXIST. 30" R.C.P.

- GUTTERLINE



CITY OF NEW BRITAIN OVERLOOK AVENUE / MCKINLEY DRIVE DRAINAGE IMPROVEMENTS PHASE 2 BID NO. 4158

NEW BRITAIN, CT 06053 Weston & Sampsor

Weston & Sampson Engineers, Inc. 712 Brook Street Rocky Hill, CT 06067 978.532.1900

www.westonandsampson.com Consultants:

Revisions:			
No.	Date	Description	
COA:			
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W&S Project No.: ENG23-2939 W&S File No.:

STRUCTURE 2 PLAN AND ELEVATIONS

Sheet Number:

Approved By:

S102