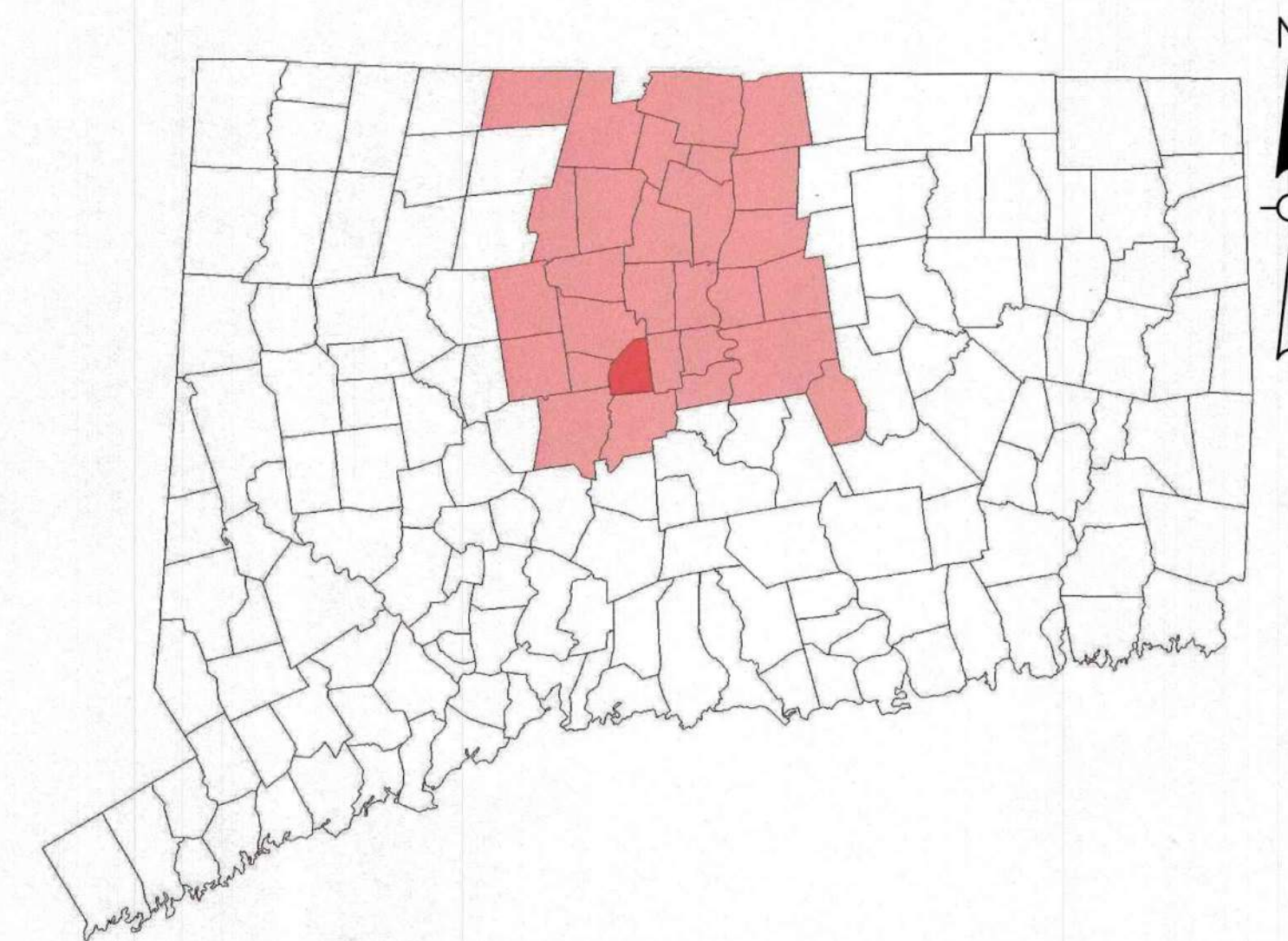


LOCATION MAP
SCALE: 1" = 5000'

CITY OF NEW BRITAIN

OVERLOOK AVENUE / MCKINLEY DRIVE DRAINAGE IMPROVEMENTS PHASE 2

JULY 2024



NOT TO SCALE

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

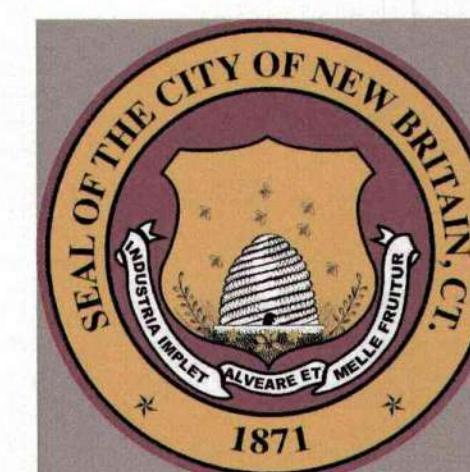
CITY OF NEW BRITAIN
STANDARD SPECIFICATIONS FOR MUNICIPAL
CONSTRUCTION
MAY 2008, REVISED JULY 2014

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

CONTENTS

SHEET NO.	SHEET NAME	SHEET TITLE
1	C001	GENERAL NOTES
2-3	C002 - C003	EXISTING CONDITIONS
4	C004	TYPICAL SECTIONS
5	C005	BORING PLAN AND LOGS
6-8	C006 - C008	CITY OF NEW BRITAIN DETAILS
9	C009	SIDEWALK RAMP DETAILS
10	C010	MISCELLANEOUS DETAILS
11	C011	INTERSECTION GRADING PLAN
12-13	C100 - C101	MCKINLEY DRIVE ROADWAY PLAN
14-15	C200 - C201	MCKINLEY DRIVE ROADWAY PROFILE
16	C300	DETOUR PLAN AND MAINTENANCE AND PROTECTION OF TRAFFIC
17	C400	WATER HANDLING DETAILS PLAN
18-33	C600 - C615	CROSS-SECTIONS
34-36	S100- S102	STRUCTURAL GENERAL NOTES, PLANS, AND ELEVATIONS



ERIN E. STEWART
MAYOR

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

Submitted By: _____
City Engineer

Approved By: _____
Mayor

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

PREPARED BY:

Weston & SampsonSM

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 RESETTNG OF FENCES, STONEWALLS, AND ORNAMENTAL AND UTILITARIAN DOMESTIC ACCESSORIES WITHIN THE HIGHWAY LIMITS AND THE REMOVAL AND RESETTNG 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:

1.

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 RESETTNG 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:

1.

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.

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) 826-3000

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.

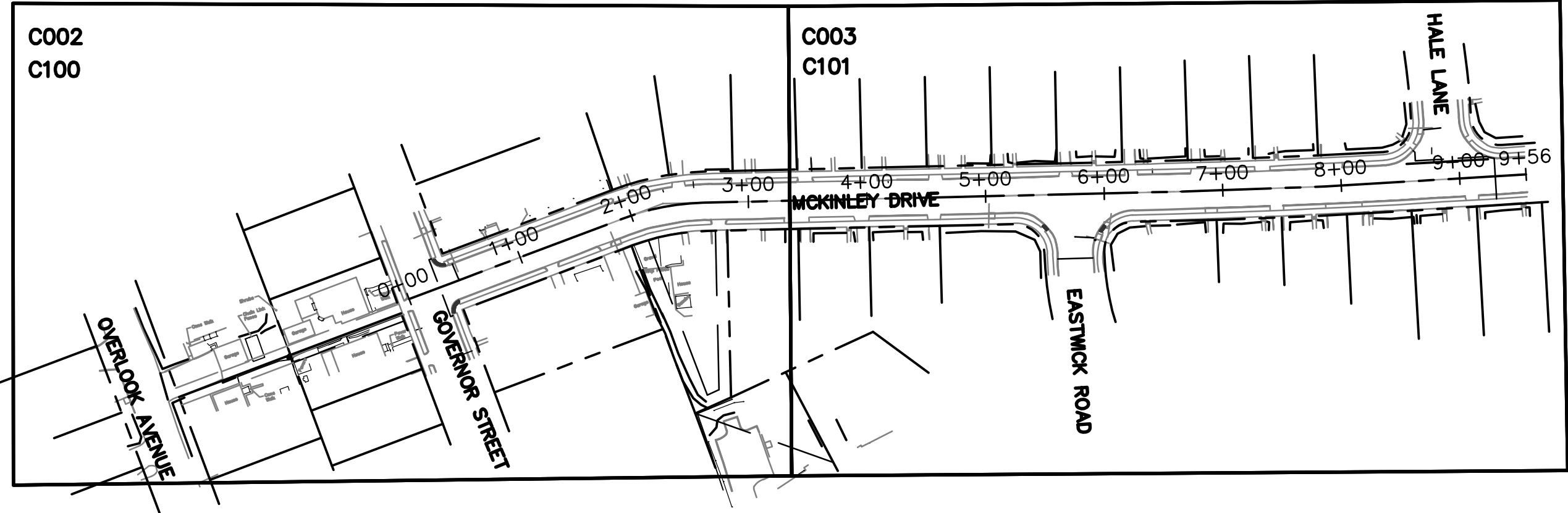
THE INSPECTOR WILL DECLARE "EMERGENCY CONDITIONS" UNDER THE FOLLOWING CIRCUMSTANCES:
1. THE NWS PREDICTS A HURRICANE OR OTHER SEVERE STORM EVENT SUCH AS RAINFALL IN EXCESS OF 3.3 INCHES PER 24-HOUR PERIOD.
2. THE NWS ISSUES A "FLOOD WATCH" FOR HARTFORD COUNTY.
3. AT THE DIRECTION OF THE CITY WHEN LOCALIZED 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 CITY.

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.

ABBREVIATIONS

AC	ASBESTOS CEMENT PIPE	ID	INSIDE DIAMETER
BC	BITUMINOUS CONCRETE, BOTTOM OF CURB	IP	IRON PIPE
BIT	BITUMINOUS	LF	LINEAR FEET
BLDG	BUILDING	LS	LUMP SUM
BM	BENCH MARK	MAX	MAXIMUM
CATV	CABLE TELEVISION	MB	MAIL BOX
CB	CATCH BASIN	MECH	MECHANICAL
CC	CONCRETE CURB	MH	MANHOLE
CI	CAST IRON	MIN	MINIMUM
CL	CENTERLINE	MISC	MISCELLANEOUS
CMP	CORRUGATED METAL PIPE	N	NORTH
CONC	CONCRETE	NF	NOT FOUND
CP	CONTROL POINT	NO OR #	NUMBER
CU FT	CUBIC FEET	PE	POLYETHYLENE
CY	CUBIC YARD	R	PROPERTY LINE
DI	DROP INLET, DUCTILE IRON	PVC	POLYVINYL CHLORIDE
DIA	DIAMETER	PR	PROPOSED
DMH	DRAIN MANHOLE	PVMT	PAVEMENT
DWY	DRIVEWAY	RCP	REINFORCED CONCRETE PIPE
E	ELECTRIC, EAST	ROW	RIGHT-OF-WAY
EA	EACH	S	SEWER, SOUTH
EL	ELEVATION	SF	SQUARE FEET
EOP	EDGE OF PAVEMENT	SPEC	SPECIFICATIONS
EW	EACH WAY	SQ FT	SQUARE FEET
EX	EXISTING	SS	SEWER SERVICE
FT	FEET, FOOT	STA	STATION
G	NATURAL GAS	T	SIDEWALK
GALV	GALVANIZED	SW	TELEPHONE
GC	GRANITE CURB	TBM	TEMPORARY BENCH MARK
H	HIGH	TC	TOP OF CURB
HC	HOUSE CONNECTION	TYP	TYPICAL
HH	HAND HOLE	UP	UTILITY POLE
HPZ	HORIZONTAL	VC	VITRIFIED CLAY
HP	HIGH PRESSURE	VERT	VERTICAL
HYD	FIRE HYDRANT	W	WATER, WEST, WIDE
INV	INVERT		



INDEX PLAN

SCALE 1"=100'

Project:

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



NEW BRITAIN, CT 06053

Weston & Sampson

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

www.westonandsampson.com

Consultants:

Revisions:

No.	Date	Description

COA:

Seal:

Issued For:

Scale:

AS NOTED

Date:

07/03/2024

Drawn By:

AMN

Reviewed By:

LEC

Approved By:

MJJ

W&S Project No.:

ENG23-2939

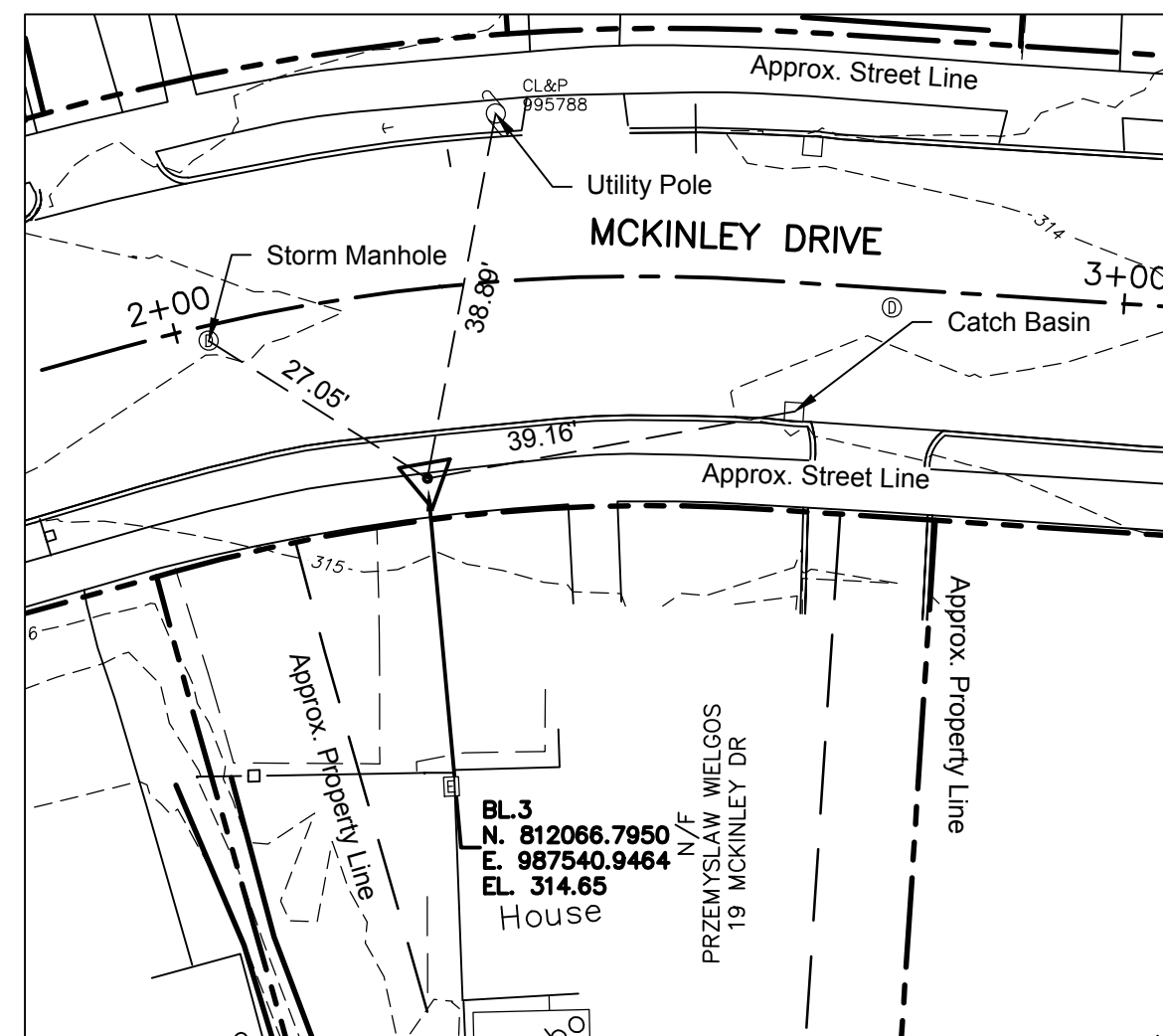
W&S File No.:

Drawing Title:

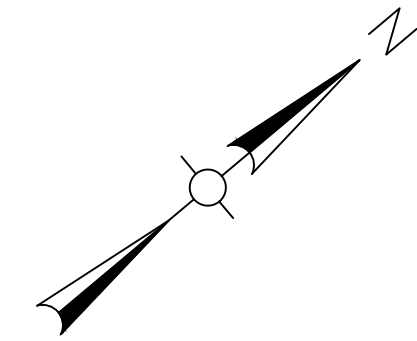
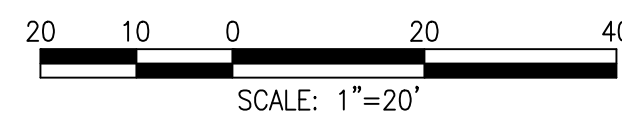
GENERAL NOTES
LEGEND

Sheet Number:

C001



TRAVERSE POINT TIES



Weston & Sampson
Weston & Sampson Engineers, Inc.
712 Brook Street
Rocky Hill, CT 06067
978.532.1900 800.SAMPSON
www.westonandsampson.com

Consultants.

[illegible]

COA:

COPYRIGHT © 2023 BY WESTON & SAMPSON
THIS DRAWING HAS BEEN PREPARED FOR THE
EXCLUSIVE USE OF THE CLIENT & PROJECT NAME
LISTED ON THIS DRAWING ONLY.

REPRODUCTION, RELEASE OF UTILIZATION OF THE
DRAWING CONTENT BY OTHER CLIENTS / FIRMS AND
ON OTHER PROJECTS IS PROHIBITED BY LAW.

WESTON & SAMPSON RETAINS THE EXCLUSIVE USE
OF THE INTELLECTUAL PROPERTY CONTAINED
HEREIN.

Seal:

Issued For:

Scale: 1"=20'

Date: 07/03/2024
 Drawn By: AMN
 Reviewed By: LEC
 Approved By: MJJ

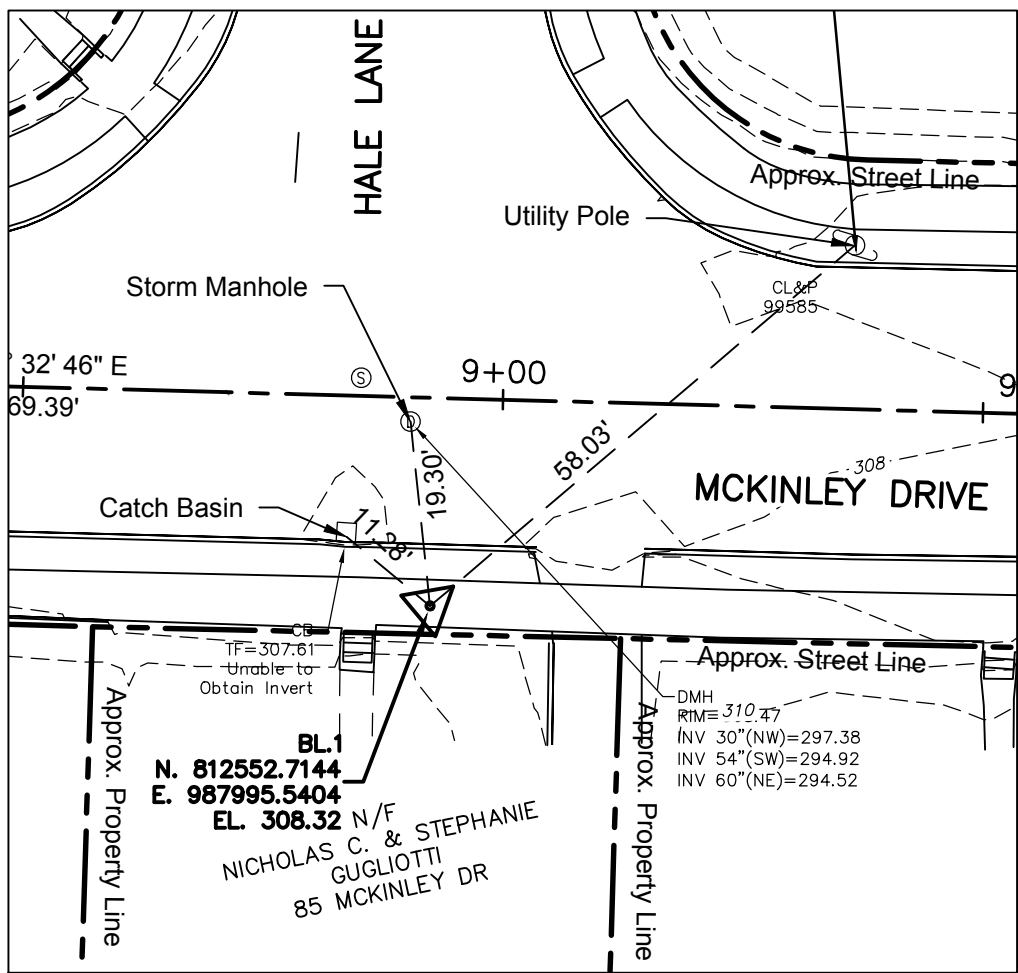
W&S Project No.: ENG23-2939
W&S File No.:

Drawing Title:

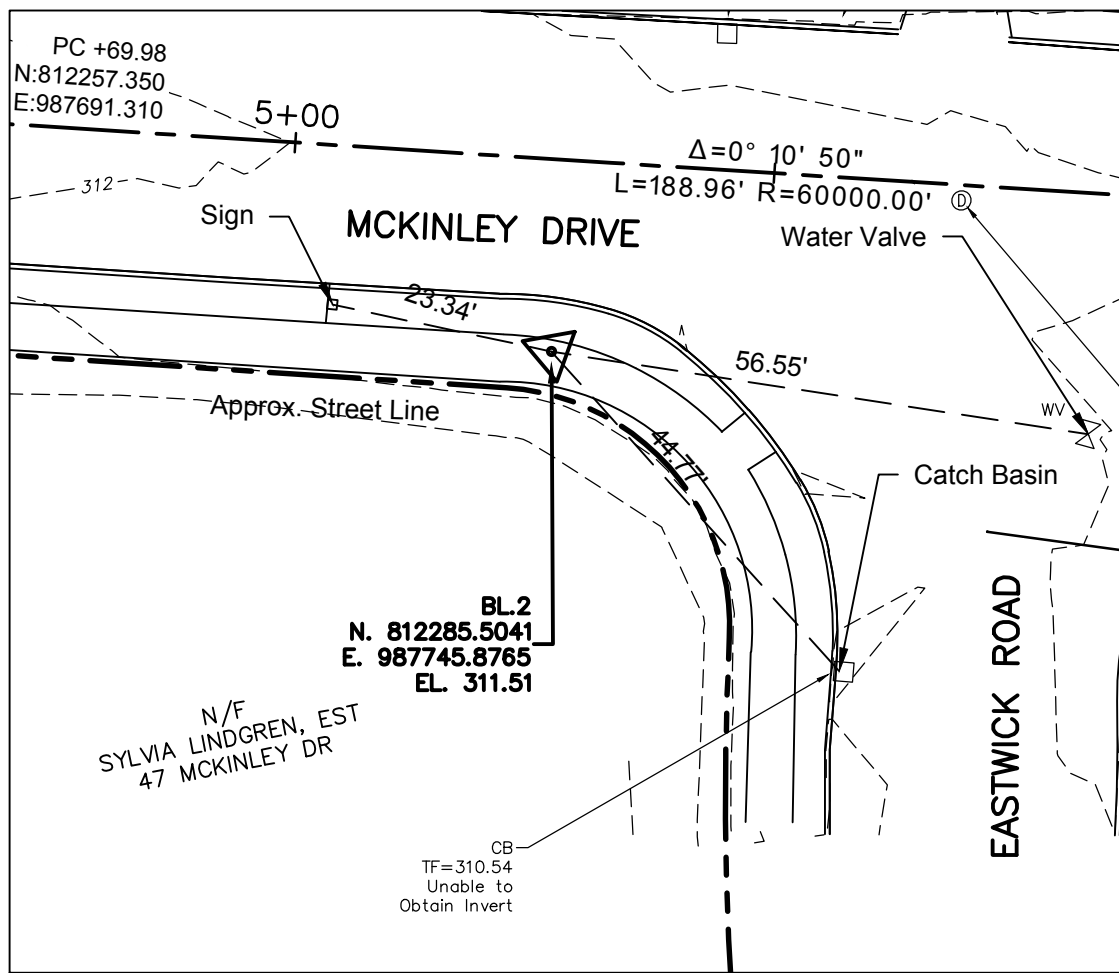
EXISTING CONDITIONS STA 0+00 TO 3+50

Sheet Number:

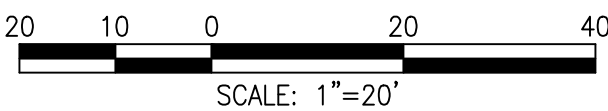
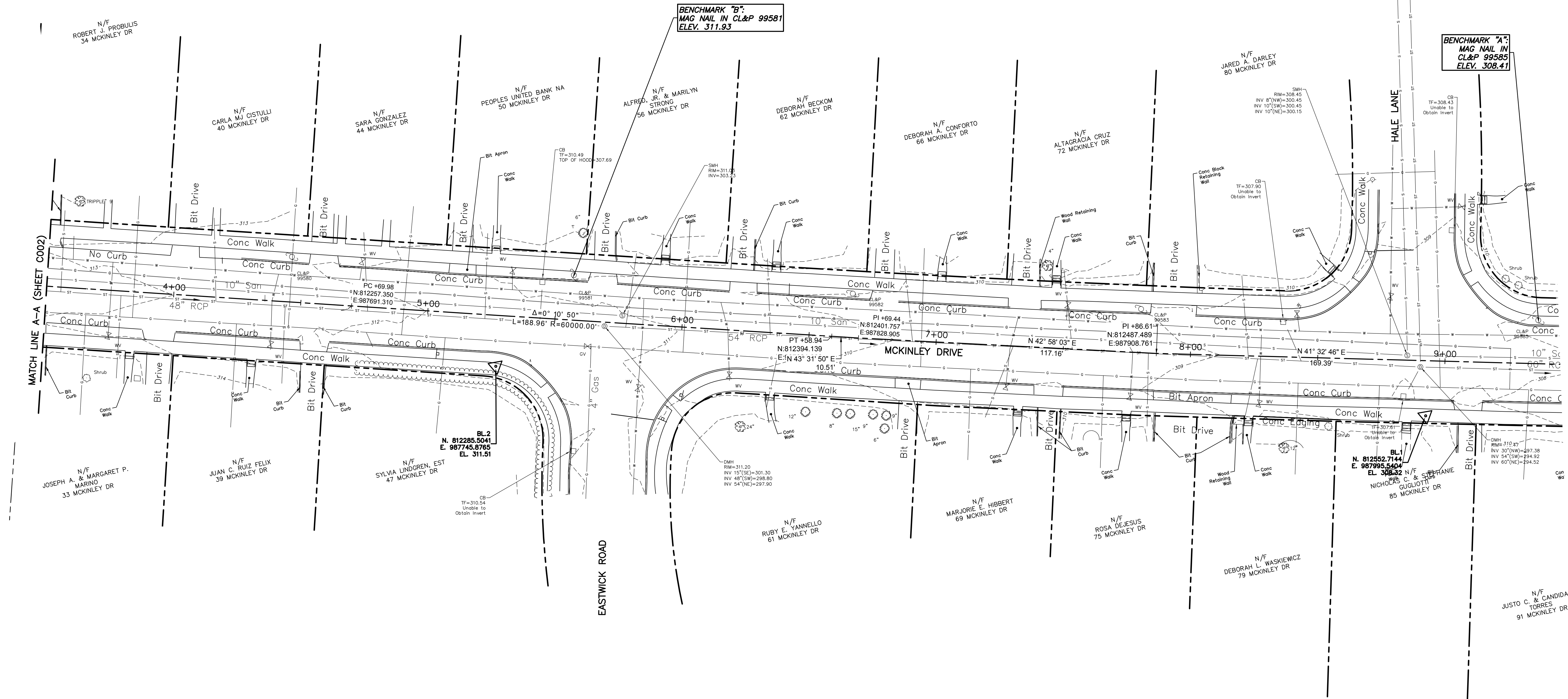
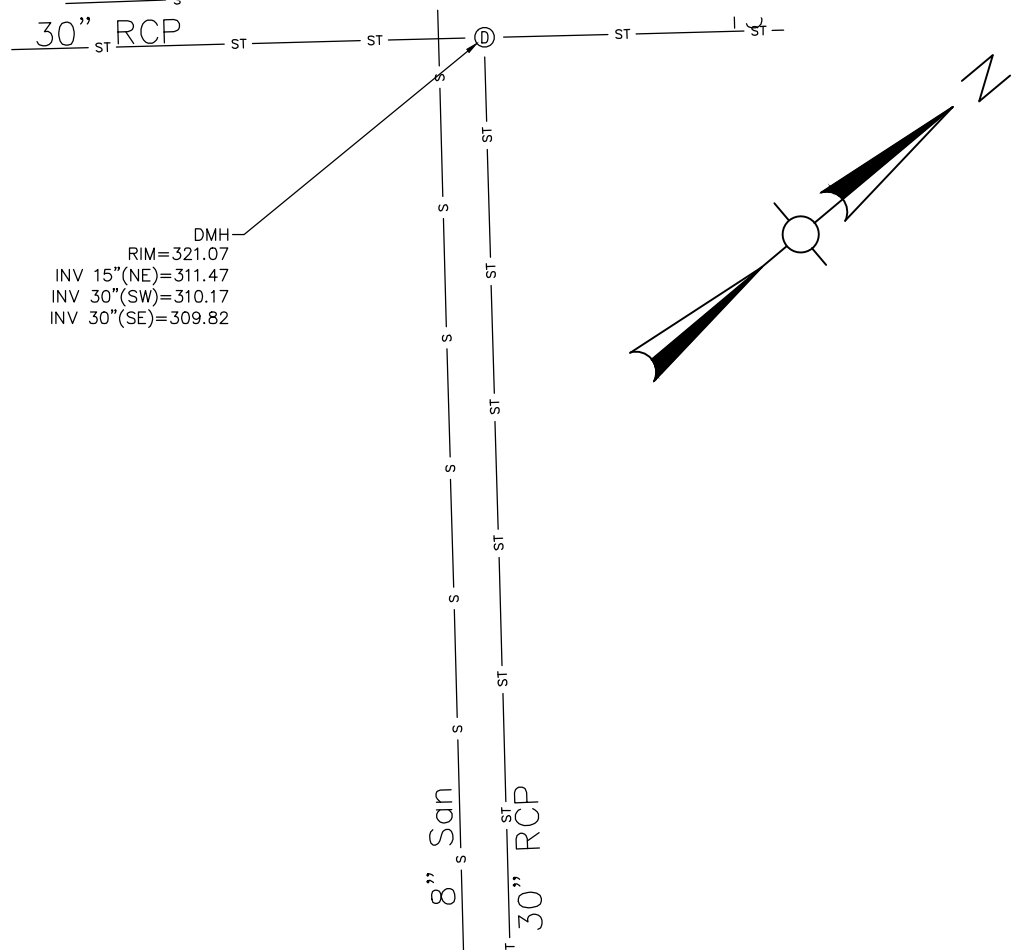
C002



TRAVERSE POINT TIES
SCALE: 1" = 20'



TRAVERSE POINT TIES
SCALE: 1" = 20'



SCALE: 1" = 20'

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



NEW BRITAIN, CT 06053

Weston & Sampson
Weston & Sampson Engineers, Inc.
712 Brook Street
Rocky Hill, CT 06067
978.532.1900 800.SAMPSON
www.westonandsampson.com

Revisions:

No.	Date	Description

COA:
COPYRIGHT © 2023 BY WESTON & SAMPSON
THIS DRAWING HAS BEEN PREPARED FOR THE
EXCLUSIVE USE OF THE CLIENT & PROJECT NAME
LISTED ON THIS DRAWING ONLY.
REPRODUCTION, RELEASE OF UTILIZATION OF THE
DRAWING CONTENT BY OTHER CLIENTS / FIRMS AND
ON OTHER PROJECTS IS PROHIBITED BY LAW.
WESTON & SAMPSON RETAINS THE EXCLUSIVE USE
OF THE INTELLECTUAL PROPERTY CONTAINED
HEREIN.

Scale: 1"=20'

Date: 07/03/2024
Drawn By: AMN
Reviewed By: LEC
Approved By: MJJ
W&S Project No.: ENG23-2939
W&S File No.:

EXISTING CONDITIONS
STA 3+50 TO 9+56
C003

Consultants:

Revisions:

No.	Date	Description

COA:

Seal:

Issued For:

Scale: AS NOTED

Date: 07/03/2024

Drawn By: AMN

Reviewed By: LEC

Approved By: MJJ

W&S Project No.: ENG23-2939

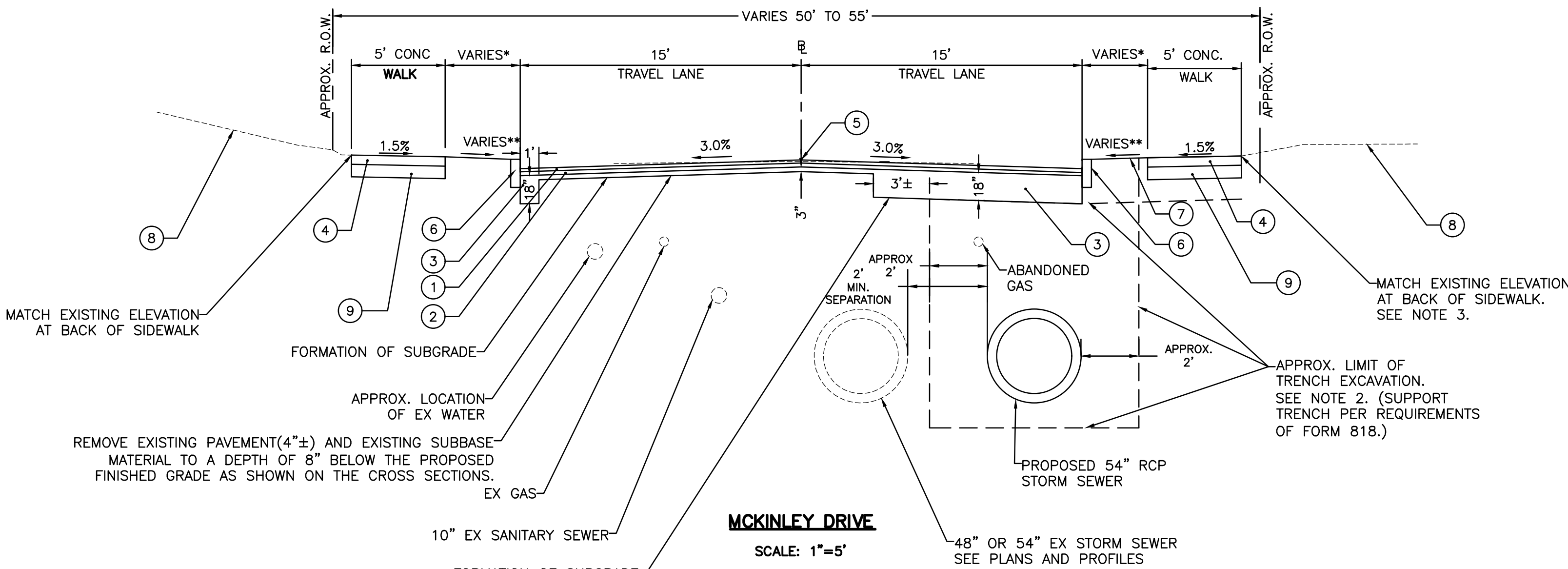
W&S File No.:

Drawing Title:

TYPICAL SECTIONS

Sheet Number:

C004



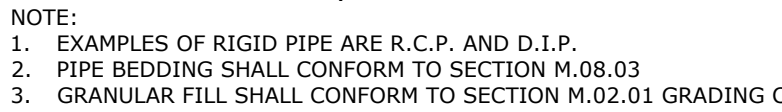
LEGEND

- 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 REUSED AS THE TRENCH BACKFILL MATERIAL WITH APPROVAL OF THE ENGINEER MATERIAL WITHIN THESE LIMITS.
- 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.

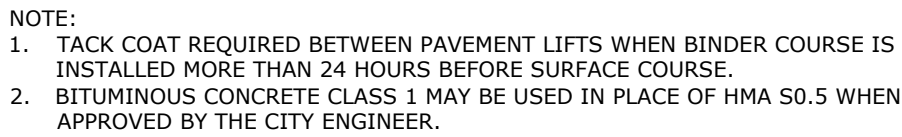


TRENCH EXCAVATION AND BACKFILL - RIGID PIPE
NOT TO SCALE



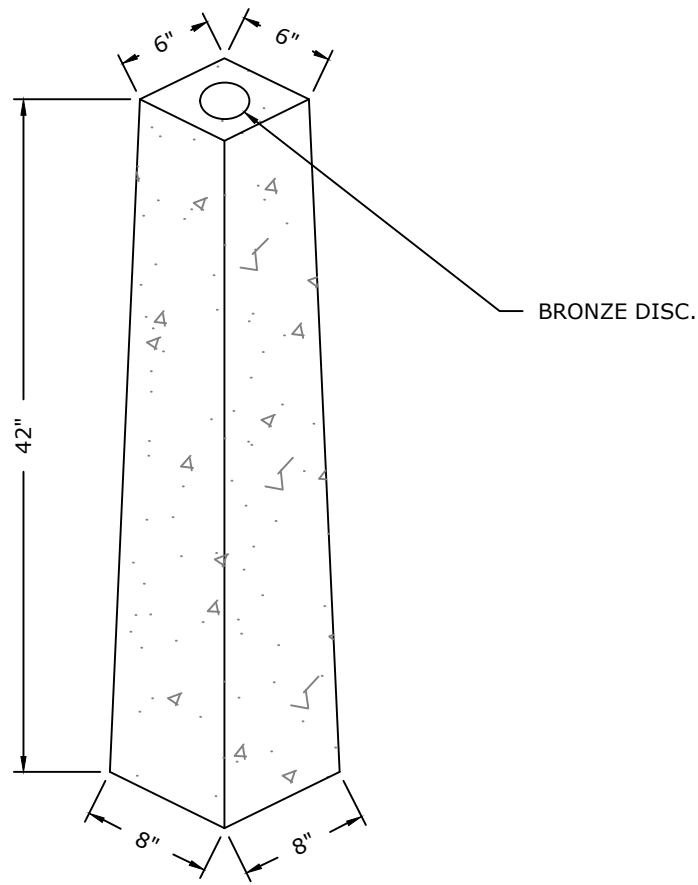
- NOTE:
1. 24" WIDE PAVEMENT REPAIR MAY BE ELIMINATED FOR CONCRETE CURB WHEN APPROVED BY THE CITY ENGINEER.
 2. TACK COAT REQUIRED BETWEEN PAVEMENT LIFTS WHEN BINDER COURSE IS INSTALLED MORE THAN 24 HOURS BEFORE SURFACE COURSE.
 4. BITUMINOUS CONCRETE CLASS 1 MAY BE USED IN PLACE OF HMA S0.5 WHEN APPROVED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

CONCRETE CURB
NOT TO SCALE



BIT. CONC. PATCHING - FULL DEPTH
NOT TO SCALE

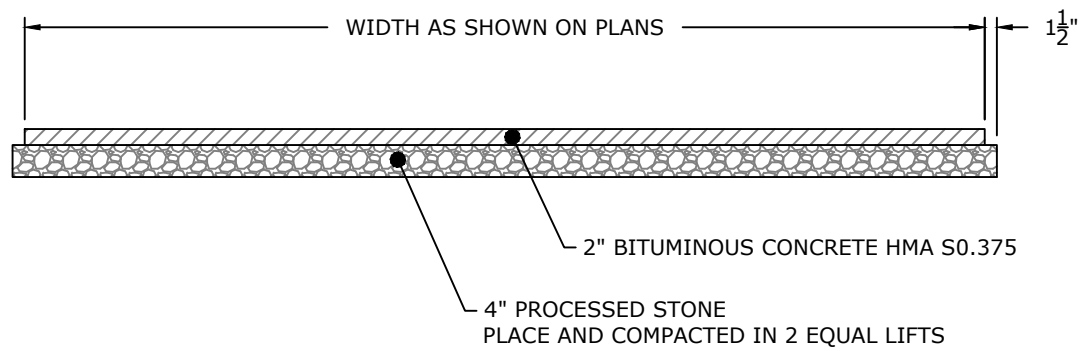
DATE: July 10, 2024	FILENAME: OVERLOOK_CITY_DET.dwg										PROJECT TITLE			
	DRAWN BY J. OUTLAW													
	CHECKED BY R. TROTTIER													
	NOT TO SCALE													
	REVISION DESCRIPTION										SCALE			
REV. DATE														
DRAWING NUMBER										C006				
PROJECT NUMBER										ENG23-2939				



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

STANDARD NEW BRITAIN CONC. MONUMENT

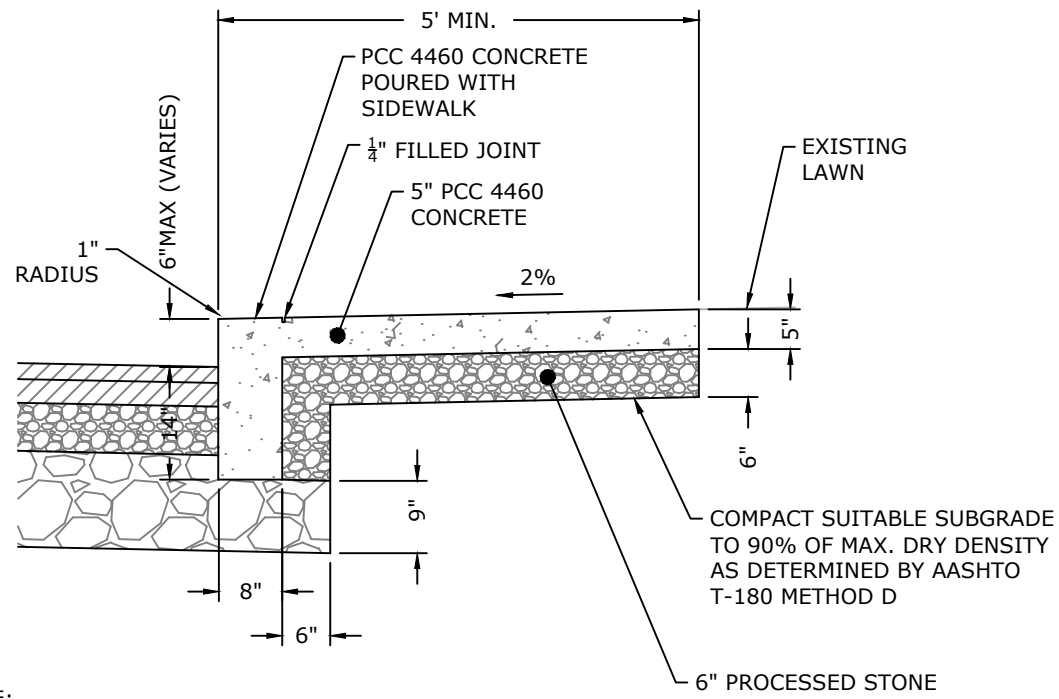
NOT TO SCALE



- NOTE:
1. WHERE SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER

TEMPORARY BIT. CONC. SIDEWALK

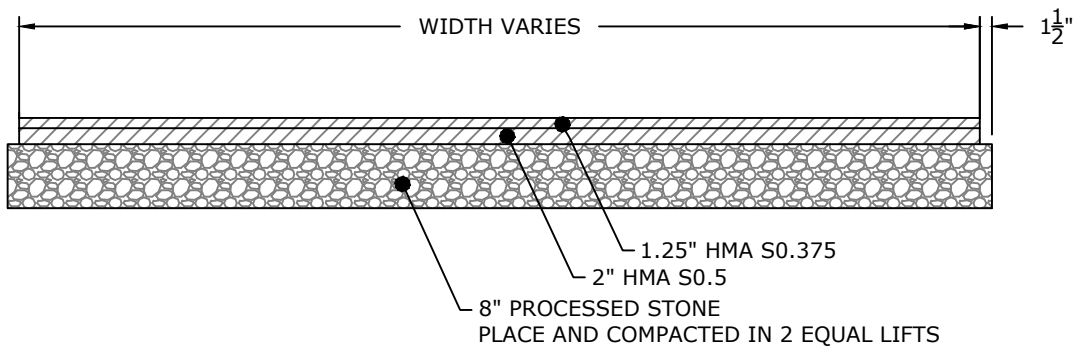
NOT TO SCALE



- NOTE:
1. CONCRETE CURB AND CONCRETE SIDEWALK TO BE PAID FOR SEPARATELY UNDER CONCRETE CURB AND CONCRETE SIDEWALK ITEMS RESPECTIVELY.
 2. SEE PLANS FOR SIDEWALK WIDTH

MONOLITHIC CONCRETE SIDEWALK

NOT TO SCALE

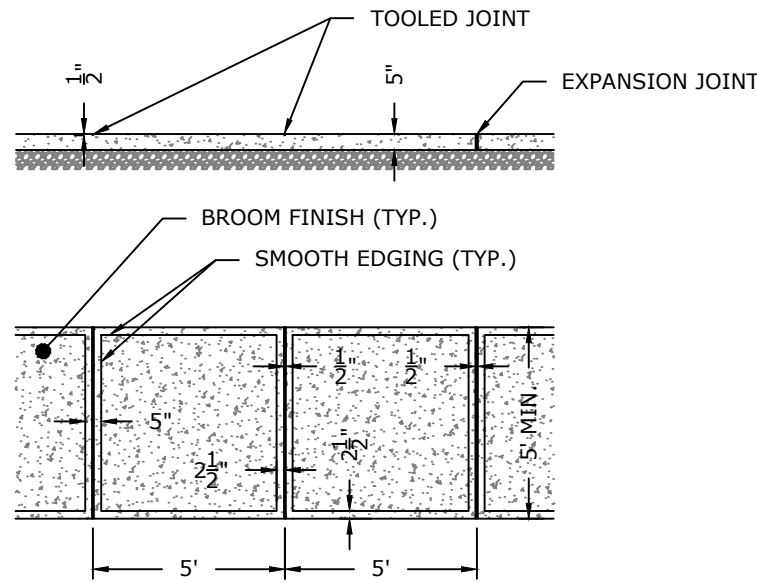


TYPICAL SECTION

- NOTE:
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
* 3" FOR COMMERCIAL DRIVEWAYS

BITUMINOUS CONCRETE DRIVEWAY

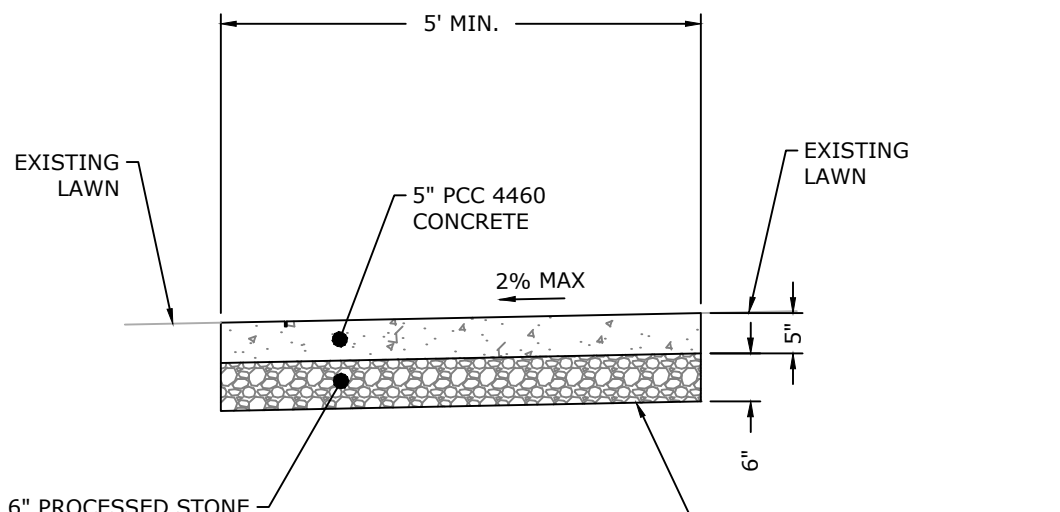
NOT TO SCALE



1. MAXIMUM 20' SPACING BETWEEN EXPANSION JOINTS FOR SIDEWALKS UP TO 7'. SIDEWALKS GREATER THAN 7' MAXIMUM SPACING OF 15'

CONC. SIDEWALK JOINTING AND EDGING

NOT TO SCALE



- NOTE:
1. SEE PLANS FOR SIDEWALK WIDTH

CONCRETE SIDEWALK

NOT TO SCALE

FILENAME: OVERLOOK CITY_DET.dwg

PROJECT TITLE

DRAWN BY
J. OUTLAW

CHECKED BY
K. TROTIER

NOT TO SCALE

SCALE

REVISION DESCRIPTION	
REV	DATE

PROJECT NUMBER

ENG23-2939

DRAWING NUMBER

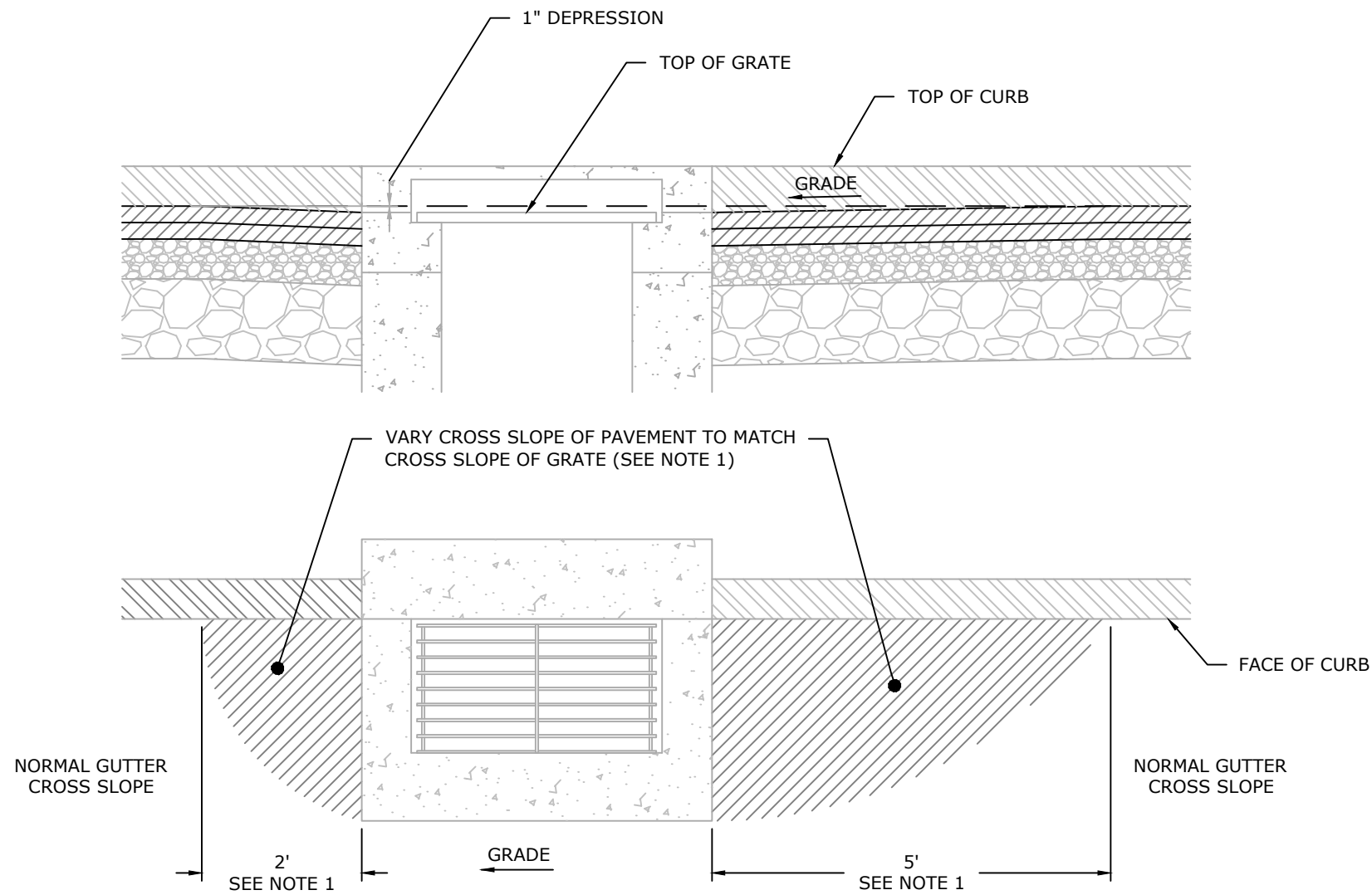
C007

CITY OF NEW BRITAIN
27 WEST MAIN STREET
NEW BRITAIN, CT 06051
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING



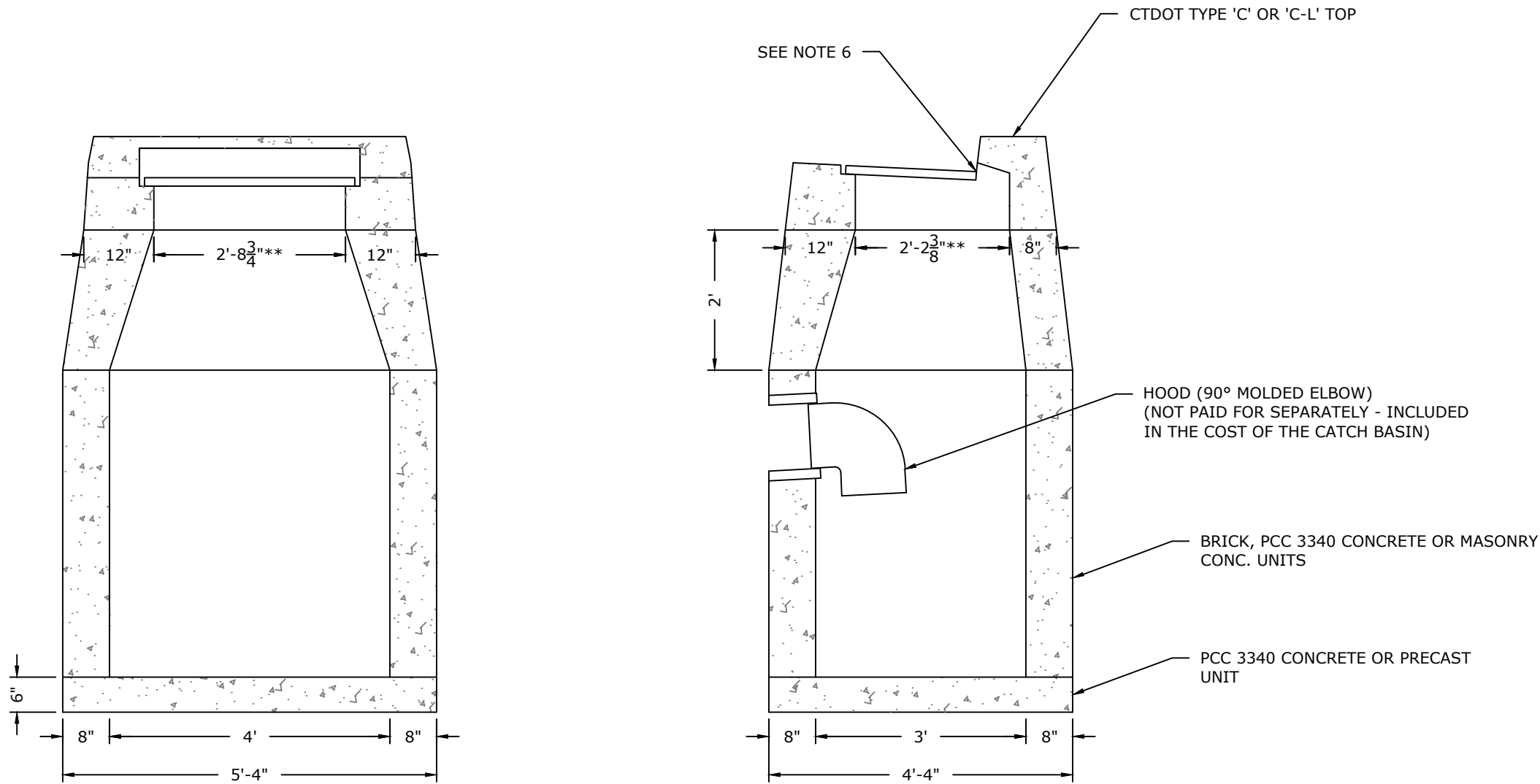
OVERLOOK AVENUE/ MCKINLEY DRIVE
DRAINAGE IMPROVEMENTS PHASE 2
BID NO. 4158

MISCELLANEOUS DETAILS



NOTE:
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



- NOTES:
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 **.
 4. PRECAST CONCRETE CATCH BASIN UNITS MAY BE USED, AS DESCRIBED IN THE STANDARD SPECIFICATIONS.
 5. 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.

CATCH BASIN
NOT TO SCALE

DATE: July 10, 2024										FILENAME: OVERLOOK_CITY_DET.dwg									
										PROJECT TITLE									
										DRAWING TITLE									
										OVERLOOK AVENUE/ MCKINLEY DRIVE									
										DRAINAGE IMPROVEMENTS PHASE 2									
										BID NO. 4158									
										MISCELLANEOUS DETAILS									

COA:

COPYRIGHT © 2023 BY WESTON & SAMPSON
THIS DRAWING HAS BEEN PREPARED FOR THE
EXCLUSIVE USE OF THE CLIENT & PROJECT NAME
LISTED ON THIS DRAWING ONLY.

REPRODUCTION, RELEASE OF UTILIZATION OF THE
DRAWING CONTENT BY OTHER CLIENTS / FIRMS AND
ON OTHER PROJECTS IS PROHIBITED BY LAW.

WESTON & SAMPSON RETAINS THE EXCLUSIVE USE
OF THE INTELLECTUAL PROPERTY CONTAINED
HEREIN.

5

Page 10 of 10

--

Drawn By: PSS

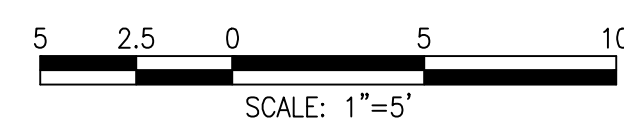
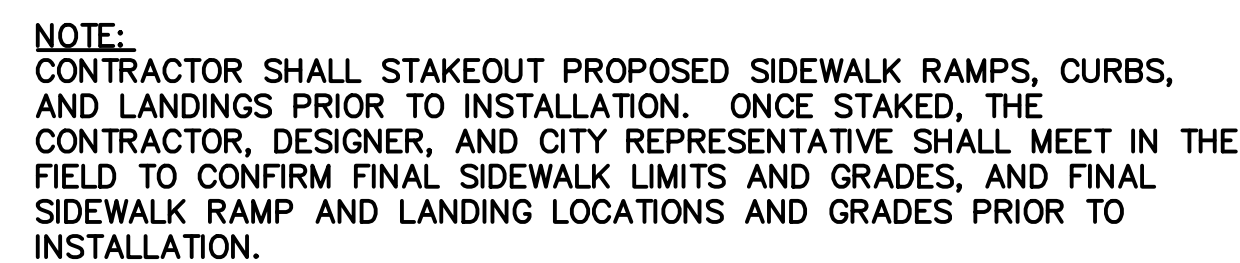
Approved By: RSV

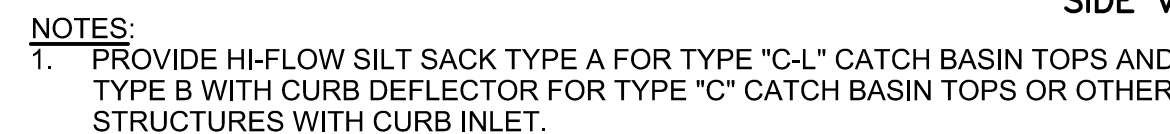
W&S Project No.: ENG23-2939

W&S File No.:

SIDEWALK RAMP DETAILS

C009





A cross-sectional diagram of a concrete curb and sidewalk. The diagram is divided into several regions by a vertical centerline and a horizontal transition line. The top left region is labeled 'CONC CURB' and is hatched. Below it is a 'FLARED SECTION' with a diagonal line. The bottom left region is labeled 'RAMP' and is filled with a stippled pattern. The bottom right region is labeled 'WALK-AREA ON RAMP' and is also filled with a stippled pattern. The top right region is labeled 'NORMAL SIDEWALK' and is filled with a stippled pattern. The bottom right region is labeled 'STREET LINE' and is hatched. The vertical centerline is labeled 'CENTERLINE'. The horizontal transition line is labeled 'TRANSITION' and 'VARIES'.

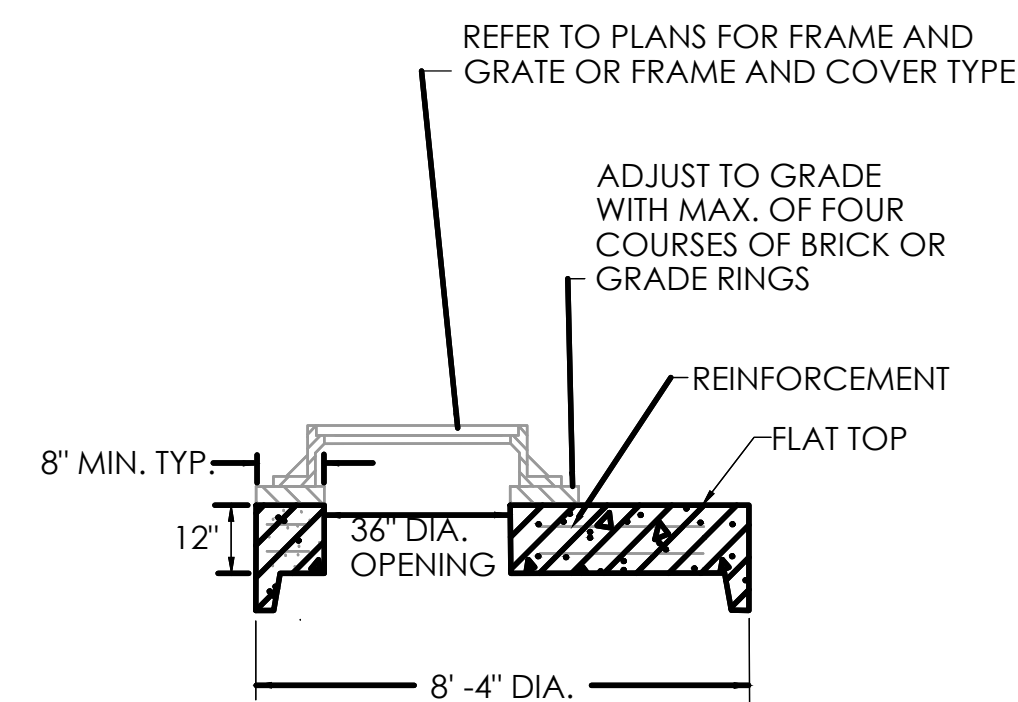


Diagram illustrating the reinforcement details for a wall cross-section. The wall is 8" thick. The reinforcement is shown as a horizontal bar with a hook. The bar is 4" or 5" in diameter. The wall is 7" in diameter. The reinforcement is 8" thick.

ALL OPENINGS AROUND THE
OUTSIDE OF THE PIPE SHALL
BE SEALED WITH BRICK, BLOCK
AND MORTAR AS DIRECTED BY
THE ENGINEER

DRAWINGS
HOLE, AND
US FOR THE
NS.

REFER TO PLANS FOR FRAME AND
GRATE OR FRAME AND COVER TYPE

ADJUST TO GRADE
WITH MAX. OF FOUR
COURSES OF BRICK OR
GRADE RINGS

REINFORCEMENT

FLAT TOP

10" MIN. TYP.

12" MIN.

36" DIA.
OPENING

9' - 6" DIA.

8' DIA.

12" MIN.-16" MAX.

STEP

STEP

9" MIN.

NO SUMP

CONCRETE OR BRICK & MORTAR INVERT

1% MIN. OR AS DIRECTED BY THE ENGINEER

6' MIN.

13"

BASE 2' MIN.

RISER VARIES

RISER VARIES

LIFTING HOLES (TYP.)
(FILL WITH MORTAR)

PRECAST REINFORCED CONCRETE TONGUE AND GROOVE RISERS AS REQUIRED

BUTYL RUBBER JOINT SEAL

REINFORCEMENT

KNOCKOUTS FOR PIPES
MIN. 4" FROM TOP & BOTTOM OF BASE OR RISER (TYPICAL)

ALL OPENINGS AROUND THE
OUTSIDE OF THE PIPE SHALL
BE SEALED WITH BRICK, BLOCK
AND MORTAR AS DIRECTED BY
THE ENGINEER

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

Seal:

Issued For:

Scale: AS NOTED

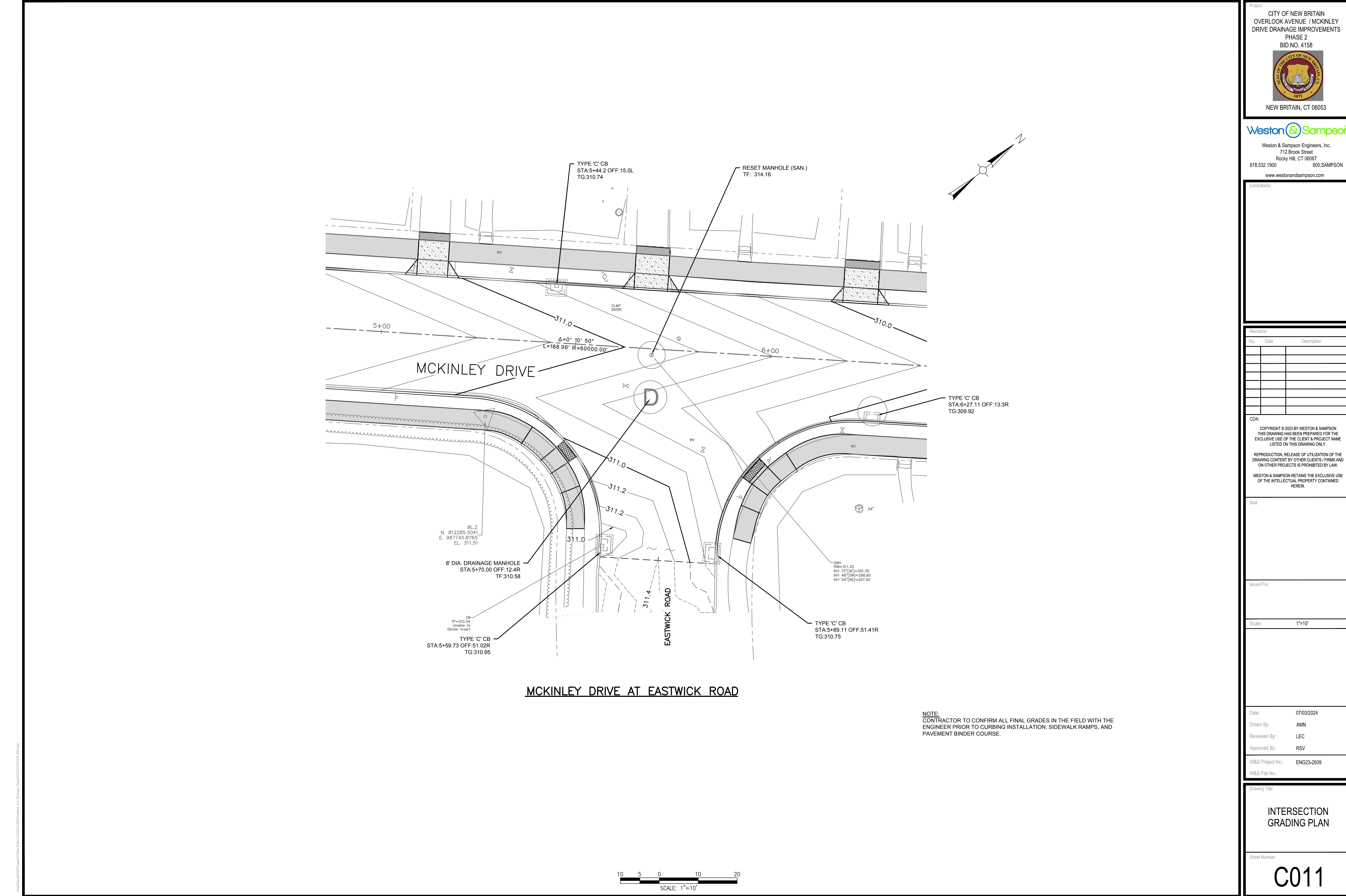
Date:	07/03/2024
Drawn By:	PSS
Reviewed By:	LEC
Approved By:	RSV
W&S Project No.:	ENG23-2939
W&S File No.:	

Drawing Title:


MISCELLANEOUS DETAILS

Sheet Number:

C010



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


NEW BRITAIN, CT 06053

Weston & Sampson

Weston & Sampson Engineers, Inc.
712 Brook Street
Rocky Hill, CT 06067
978.532.1900 800.SAMPSON
www.westonandsampson.com

Consultants:

Revisions:

No.	Date	Description

COA:

COPYRIGHT © 2023 BY WESTON & SAMPSON
THIS DRAWING HAS BEEN PREPARED FOR THE
EXCLUSIVE USE OF THE CLIENT & PROJECT NAME
LISTED ON THIS DRAWING ONLY.

REPRODUCTION, RELEASE OF UTILIZATION OF THE
DRAWING CONTENT BY OTHER CLIENTS / FIRMS AND
ON OTHER PROJECTS IS PROHIBITED BY LAW.

WESTON & SAMPSON RETAINS THE EXCLUSIVE USE
OF THE INTELLECTUAL PROPERTY CONTAINED
HEREIN.

Seal:

Issued For:

Scale: 1"=10'

Date: 07/03/2024
Drawn By: AMN
Reviewed By: LEC
Approved By: RSV
W&S Project No.: ENG23-2939
W&S File No.:

Drawing Title:
**INTERSECTION
GRADING PLAN**

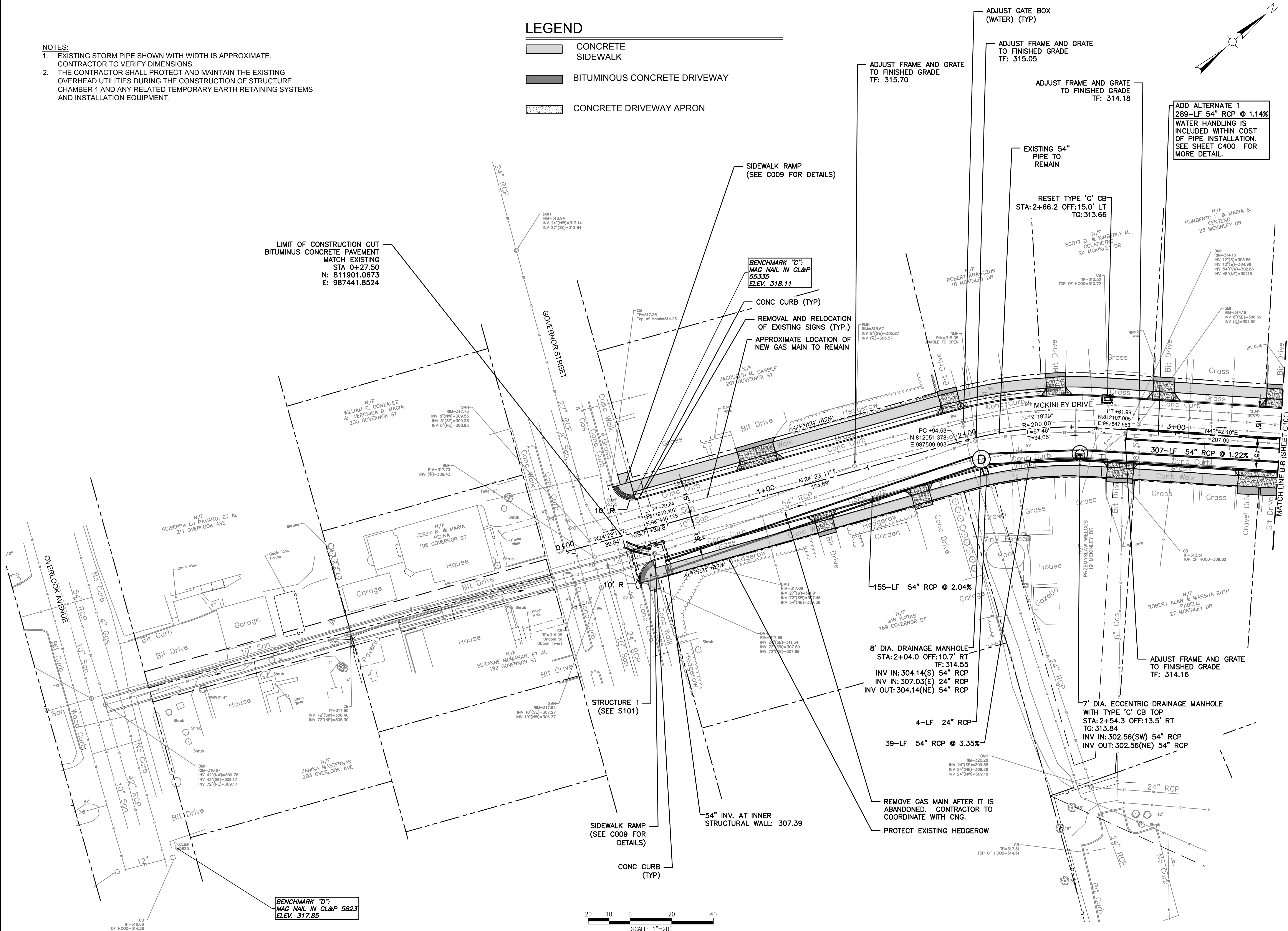
Sheet Number:
C011

COPYRIGHT © 2021 WESTON & SAMPSON, INC.


- NOTES:
- EXISTING STORM PIPE SHOWN WITH WIDTH IS APPROXIMATE. CONTRACTOR TO VERIFY DIMENSIONS.
 - THE CONTRACTOR SHALL PROTECT AND MAINTAIN THE EXISTING OVERHEAD UTILITIES DURING THE CONSTRUCTION OF STRUCTURE CHAMBER 1 AND ANY RELATED TEMPORARY EARTH RETAINING SYSTEMS AND INSTALLATION EQUIPMENT.

LEGEND

- CONCRETE SIDEWALK
- BITUMINOUS CONCRETE DRIVEWAY
- CONCRETE DRIVEWAY APRON



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



NEW BRITAIN, CT 06053

Weston & Sampson

Weston & Sampson Engineers, Inc.
712 Brook Street
Rocky Hill, CT 06067
978.532.1900 800.SAMPSON
www.westonandsampson.com

Revisions		
No.	Date	Description

Date:	07/03/2024
Drawn By:	AMN
Reviewed By:	LEC
Approved By:	MJJ
W&S Project No.:	ENG23-2939
W&S File No.:	

Drawing Title:	MCKINLEY DRIVE STA 0+00 TO 3+00 HIGHWAY PLAN
----------------	--

Sheet Number:	C100
---------------	------

LEGEND

8" Sun

30" ST RCP

ST

DMH

RIM=321.07

INV 15"(NE)=311.47

INV 30"(SW)=310.17

INV 30"(SE)=309.82

8" Sun

15" RCP

N

Weston & Sampson
Weston & Sampson Engineers, Inc.
712 Brook Street
Rocky Hill, CT 06067
978.532.1900 800.SAMPSON
www.westonandsampson.com

Consultants:

11

[illegible][illegible]

Seal:

Scale: 1"=20'

4

Date:	07/03/2024
Drawn By:	AMN
Reviewed By:	LEC
Approved By:	MJJ
W&S Project No.:	ENG23-2939
W&S File No.:	

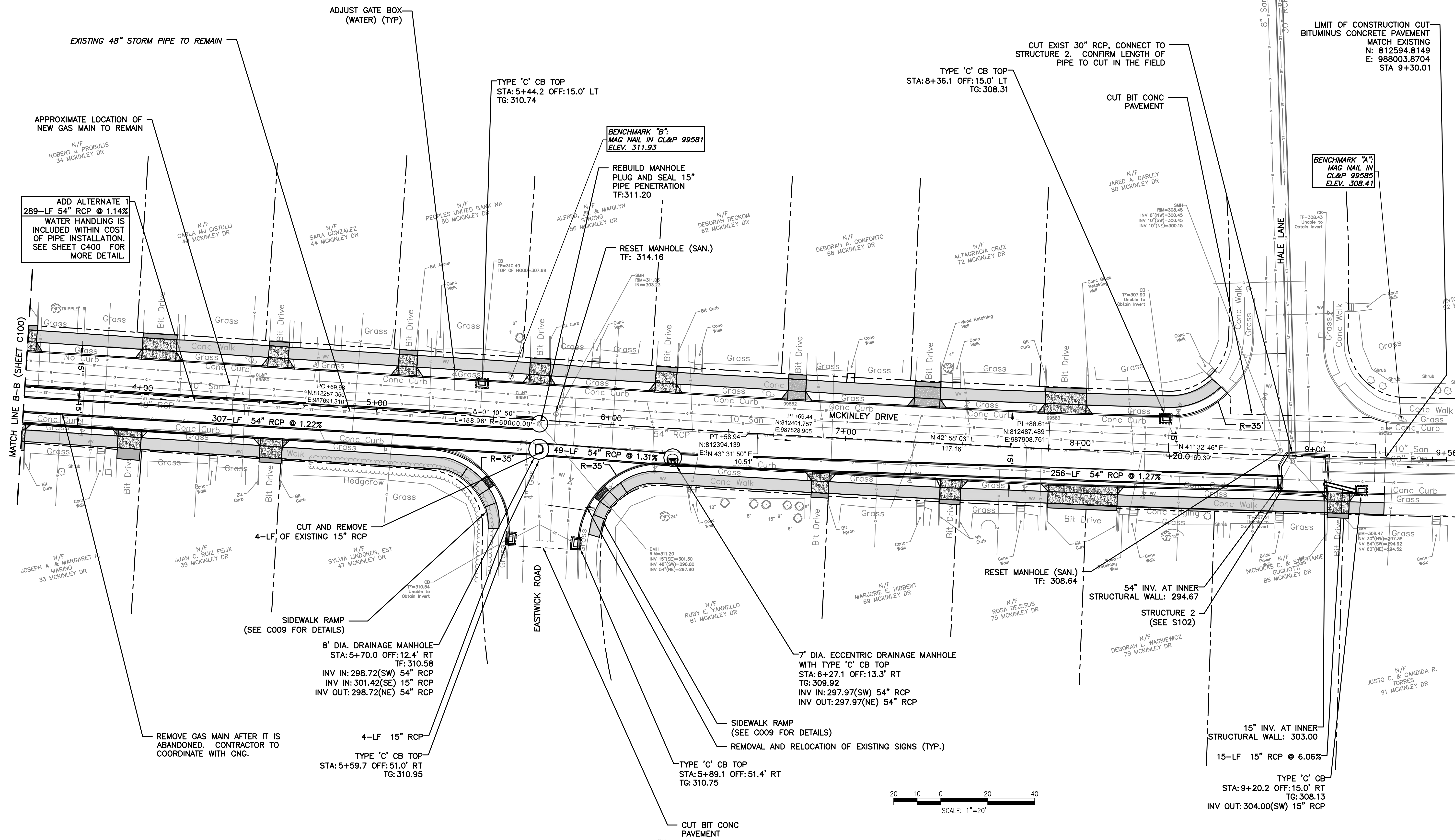
Drawing Title:

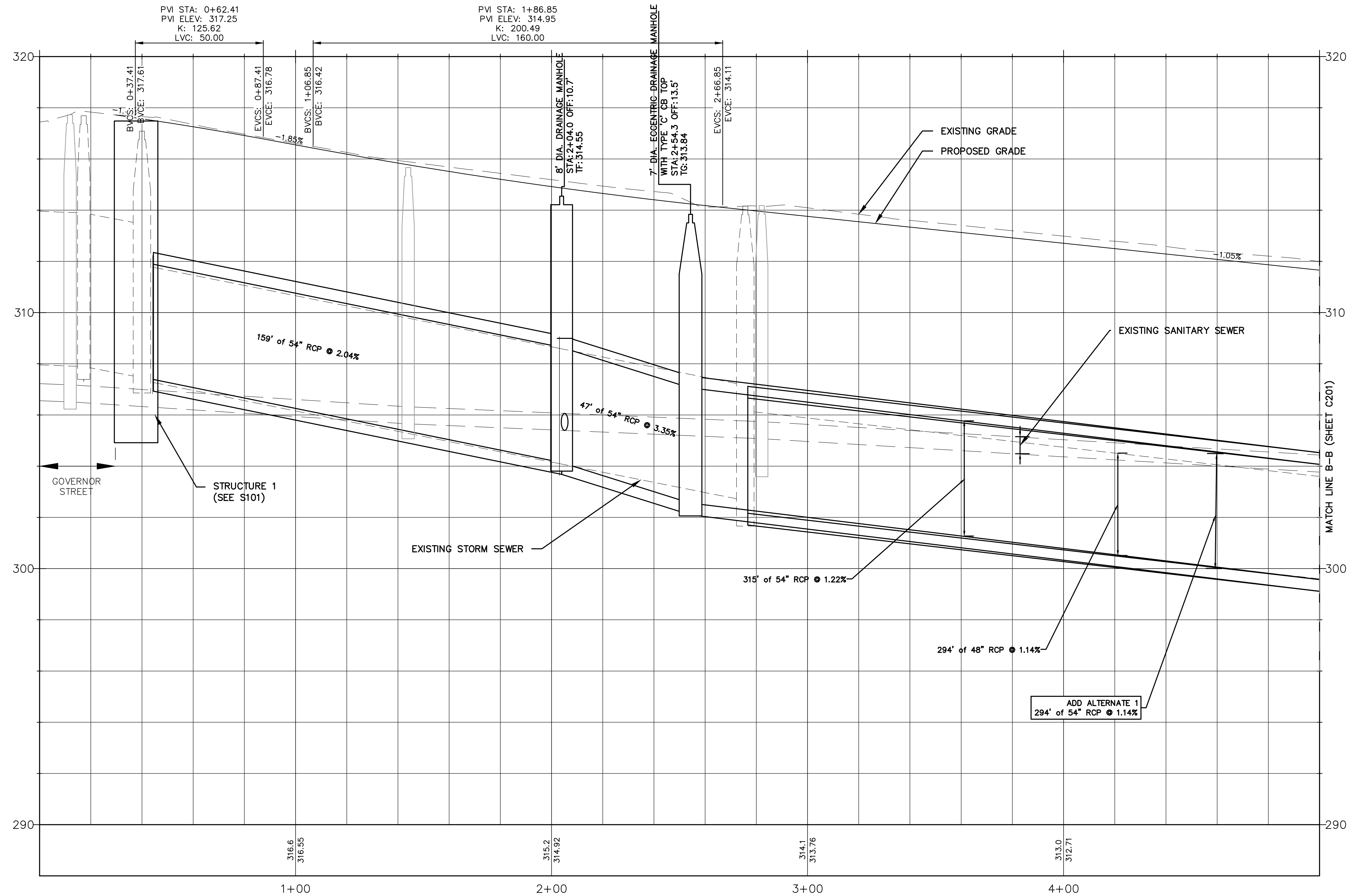
MCKINLEY DRIVE
STA 3+50 TO 9+56
HIGHWAY PLAN

Sheet Number:

C101

COPYRIGHT © 2021 WESTON & SAMPSON, INC.





Revisions		
No.	Date	Description

COA:
COPYRIGHT © 2023 BY WESTON & SAMPSON
THIS DRAWING HAS BEEN PREPARED FOR THE
EXCLUSIVE USE OF THE CLIENT & PROJECT NAME
LISTED ON THIS DRAWING ONLY.
REPRODUCTION, RELEASE OF UTILIZATION OF THE
DRAWING CONTENT BY OTHER CLIENTS / FIRMS AND
ON OTHER PROJECTS IS PROHIBITED BY LAW.
WESTON & SAMPSON RETAINS THE EXCLUSIVE USE
OF THE INTELLECTUAL PROPERTY CONTAINED
HEREIN.

Seal:

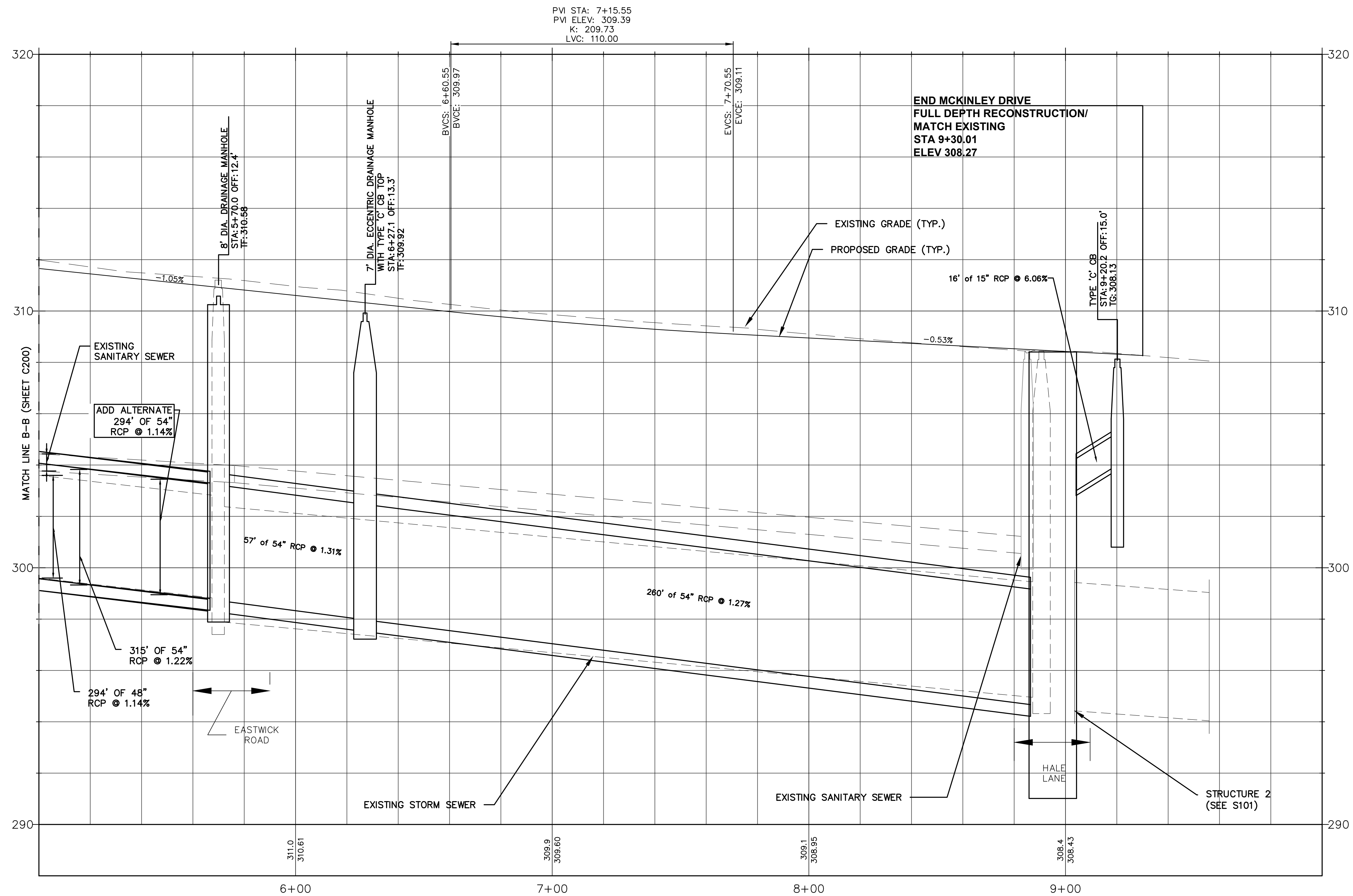
Issued For:

Scale: AS NOTED

Date: July 27/2024
Drawn By: AMN
Reviewed By: LEC
Approved By: MJJ
W&S Project No.: ENG23-2939
W&S File No.: ---

Drawing Title:
PROFILE
MCKINLEY DRIVE
STA 0+00 TO 5+00

Sheet Number:
C200



HORIZONTAL SCALE 1"=20'
VERTICAL SCALE 1"=2'

Revisions		
No.	Date	Description

COA:
COPYRIGHT © 2023 BY WESTON & SAMPSON
THIS DRAWING HAS BEEN PREPARED FOR THE
EXCLUSIVE USE OF THE CLIENT & PROJECT NAME
LISTED ON THIS DRAWING ONLY.
REPRODUCTION, RELEASE OF UTILIZATION OF THE
DRAWING CONTENT BY OTHER CLIENTS / FIRMS AND
ON OTHER PROJECTS IS PROHIBITED BY LAW.
WESTON & SAMPSON RETAINS THE EXCLUSIVE USE
OF THE INTELLECTUAL PROPERTY CONTAINED
HEREIN.

Seal:

Issued For:

Scale: AS NOTED

Date: July 2024
Drawn By: AMN
Reviewed By: LEC
Approved By: MJJ
W&S Project No.: ENG23-2939
W&S File No.: ---

Drawing Title:
**PROFILE
MCKINLEY DRIVE
STA 5+00 TO 9+56**

Sheet Number:
C201

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)**

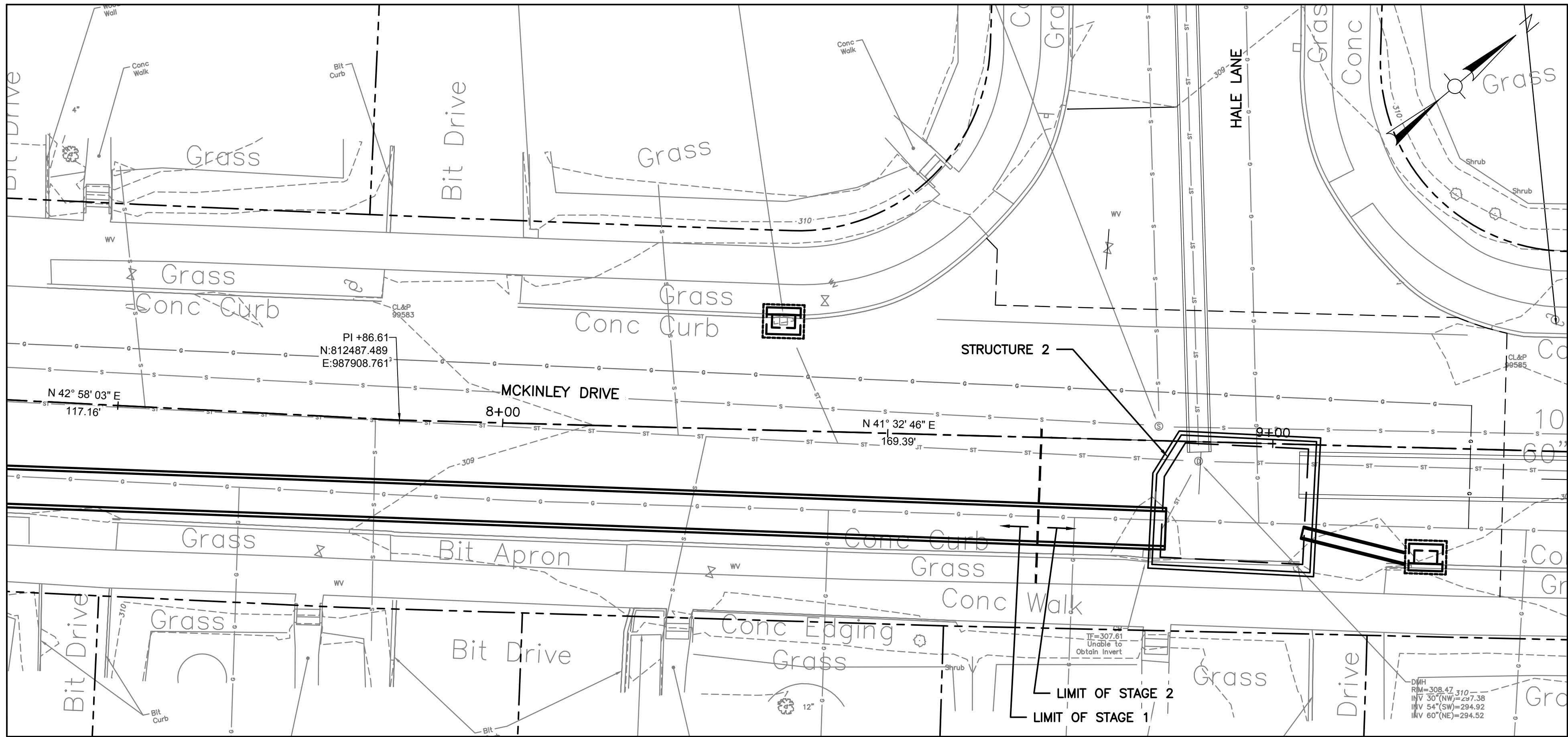
1. REMOVE THE EXISTING RISER STRUCTURE AT STA. 8+90.
2. AT STA. 8+90, REMOVE PORTIONS OF 54" AND 60" STORM PIPES TO INSTALL A TEMPORARY STORM PIPE CONNECTING THE 54" AND 60" PIPES ALONG MCKINLEY AVENUE AND 30" STORM PIPE FROM HALE AVENUE.
3. USE DEWATERING (POTENTIALLY PUMPING) METHODS AS REQUIRED TO 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)**

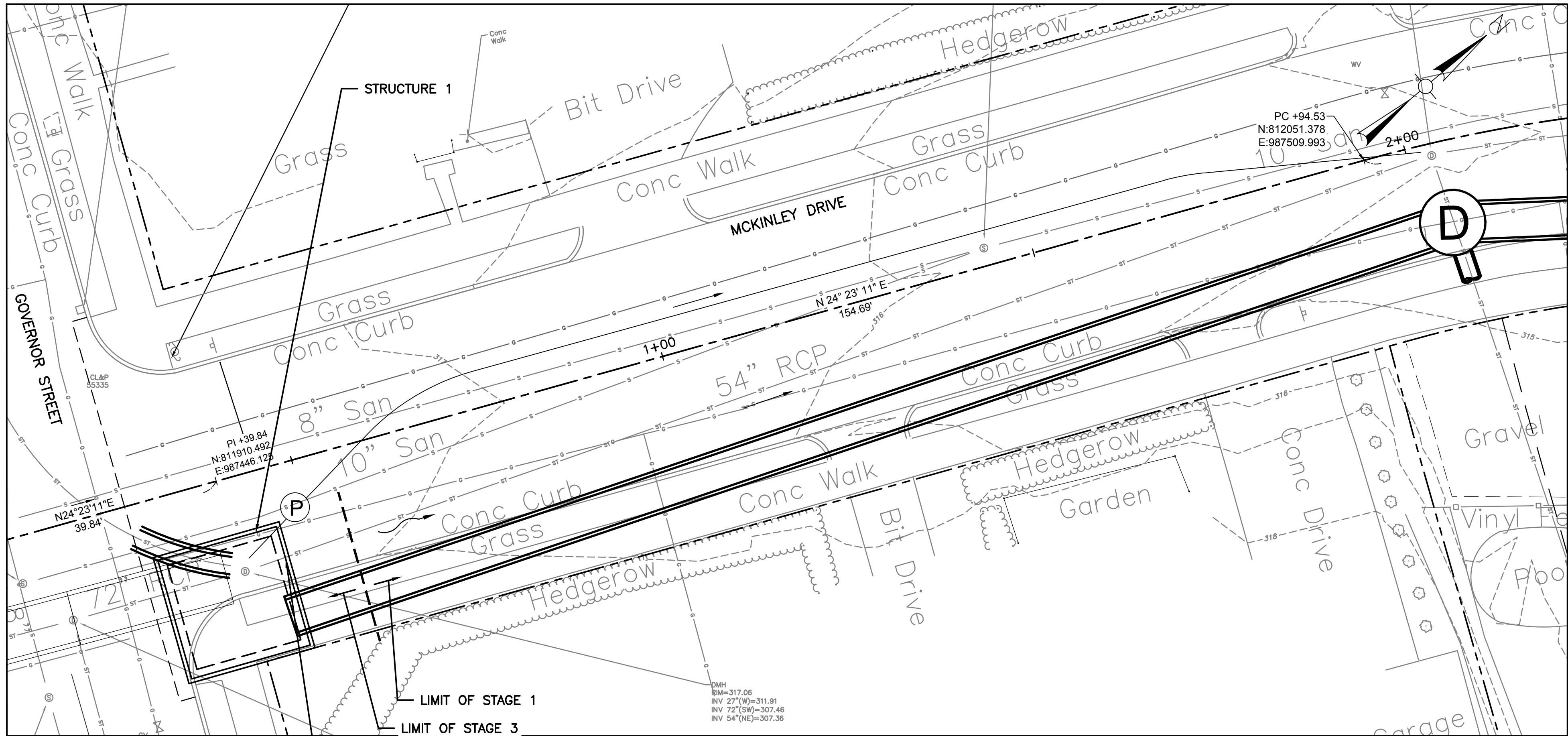
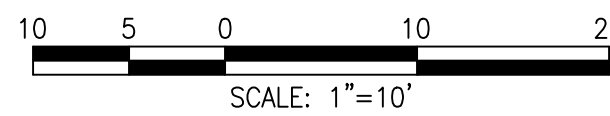
1. REMOVE THE EXISTING RISER STRUCTURE AT STA. 0+40.
2. AT STA. 0+40, REMOVE PORTIONS OF 27", 72", AND 54" TO INSTALL A TEMPORARY PIPE CONNECTING THE 27" STORM (NW), 72" (S) FROM GOVERNOR ST. AND 54".
3. USE DEWATERING (POTENTIALLY PUMPING) METHODS FROM STA. 0+40 TO STA. 2+04 AS REQUIRED TO MAINTAIN FLOW.
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**

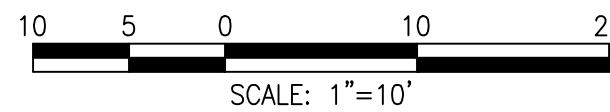
1. AFTER NEW 54" RCP IS COMPLETE, ADD COFFERDAM IN FRONT OF ORIGINAL 54" RCP (W) IN STRUCTURE 1. MAINTAIN FLOW IN NEW 54" RCP.
2. REMOVE EXISTING 48" RCP, AND INSTALL 54" RCP. MODIFY STRUCTURES AT STATION 2+75 & 5+70 AS NEEDED.
3. REMOVE ALL COFFERDAMS AND FLOW DIVERSIONS.



WATER HANDLING (SITE 1)



WATER HANDLING (SITE 2)

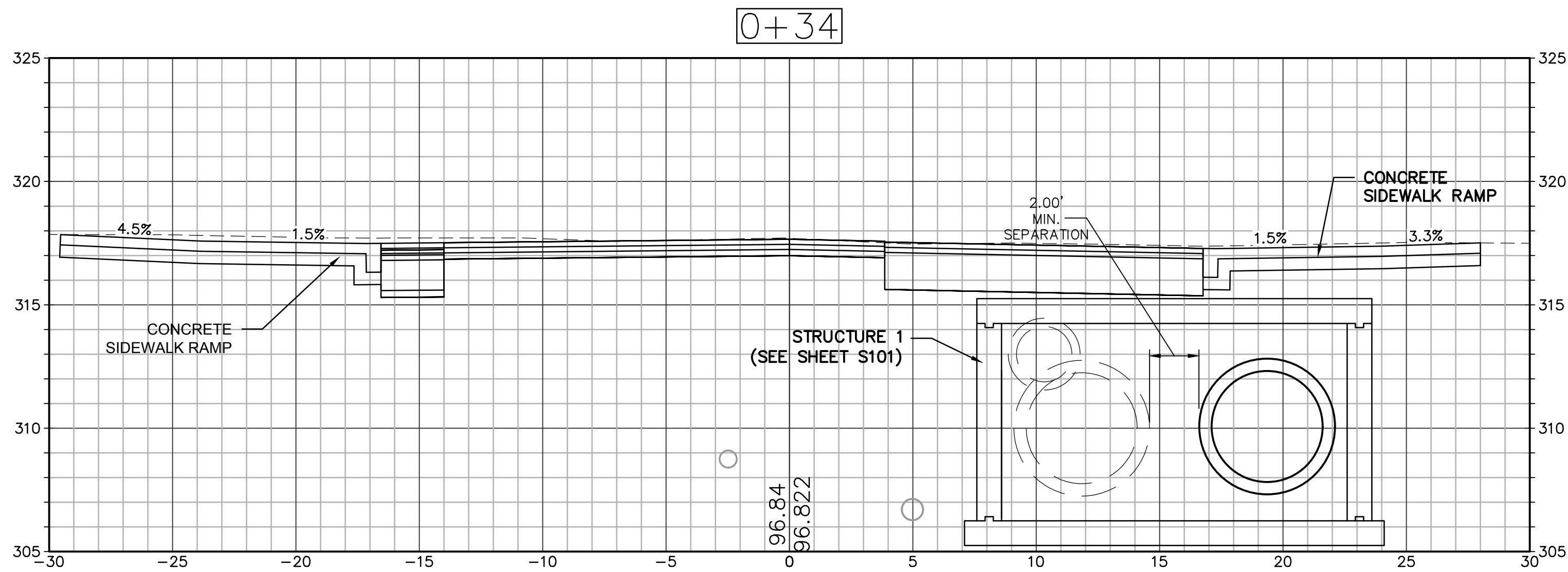
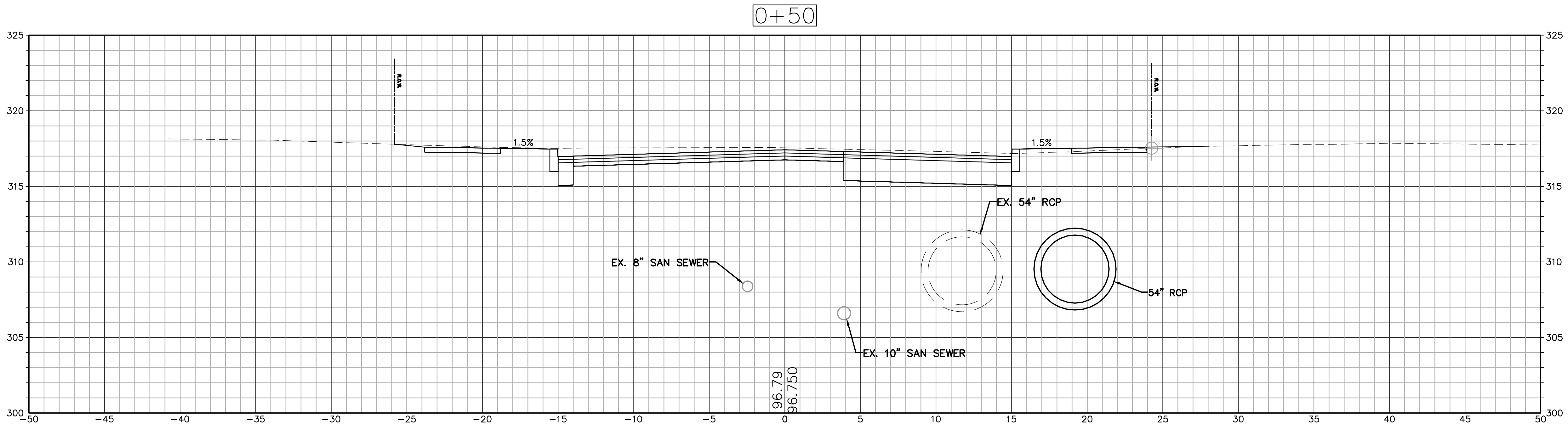
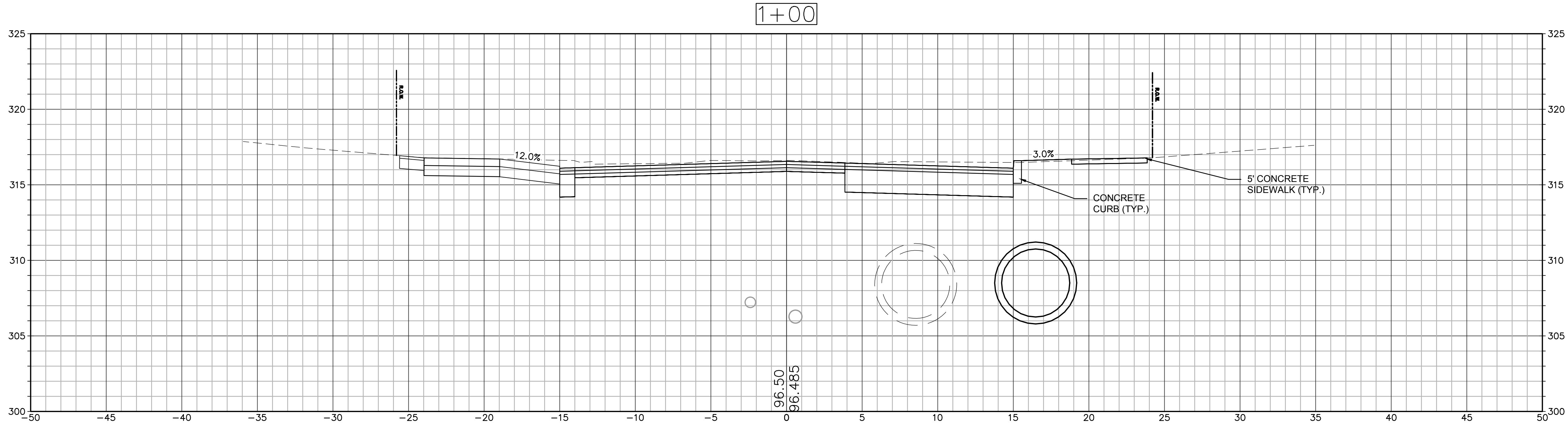


Revisions		
No.	Date	Description

Revisions		
No.	Date	Description

Date:	07/03/2024
Drawn By:	PSS
Reviewed By:	LEC
Approved By:	RSV
W&S Project No.:	ENG23-2939
W&S File No.:	

Sheet Number:	C400
---------------	------



Revisions		
No.	Date	Description

COA:
COPYRIGHT © 2023 BY WESTON & SAMPSON
THIS DRAWING HAS BEEN PREPARED FOR THE
EXCLUSIVE USE OF THE CLIENT & PROJECT NAME
LISTED ON THIS DRAWING ONLY.
REPRODUCTION, RELEASE OF UTILIZATION OF THE
DRAWING CONTENT BY OTHER CLIENTS / FIRMS AND
ON OTHER PROJECTS IS PROHIBITED BY LAW.
WESTON & SAMPSON RETAINS THE EXCLUSIVE USE
OF THE INTELLECTUAL PROPERTY CONTAINED
HEREIN.

Seal:

Issued For:

Scale: 1" = 4'

Date: 07/03/2024
Drawn By: AMN
Reviewed By: LEC
Approved By: MJJ
W&S Project No.: ENG23-2939
W&S File No.:

Drawing Title:

CROSS SECTIONS


Sheet Number:

C600

Weston & Sampson
Weston & Sampson Engineers, Inc.
712 Brook Street
Rocky Hill, CT 06067
978.532.1900 800.SAMPSON
www.westonandsampson.com

[illegible]

Seal:

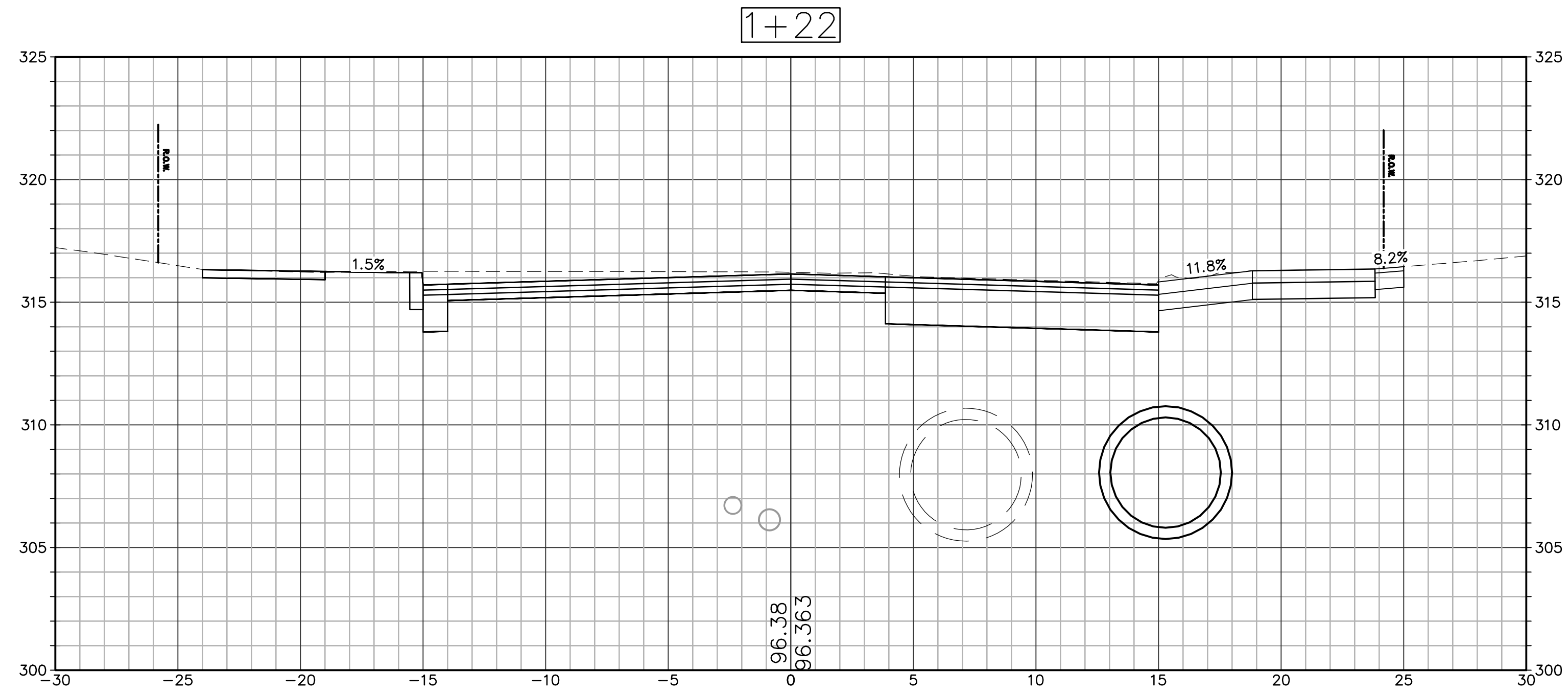


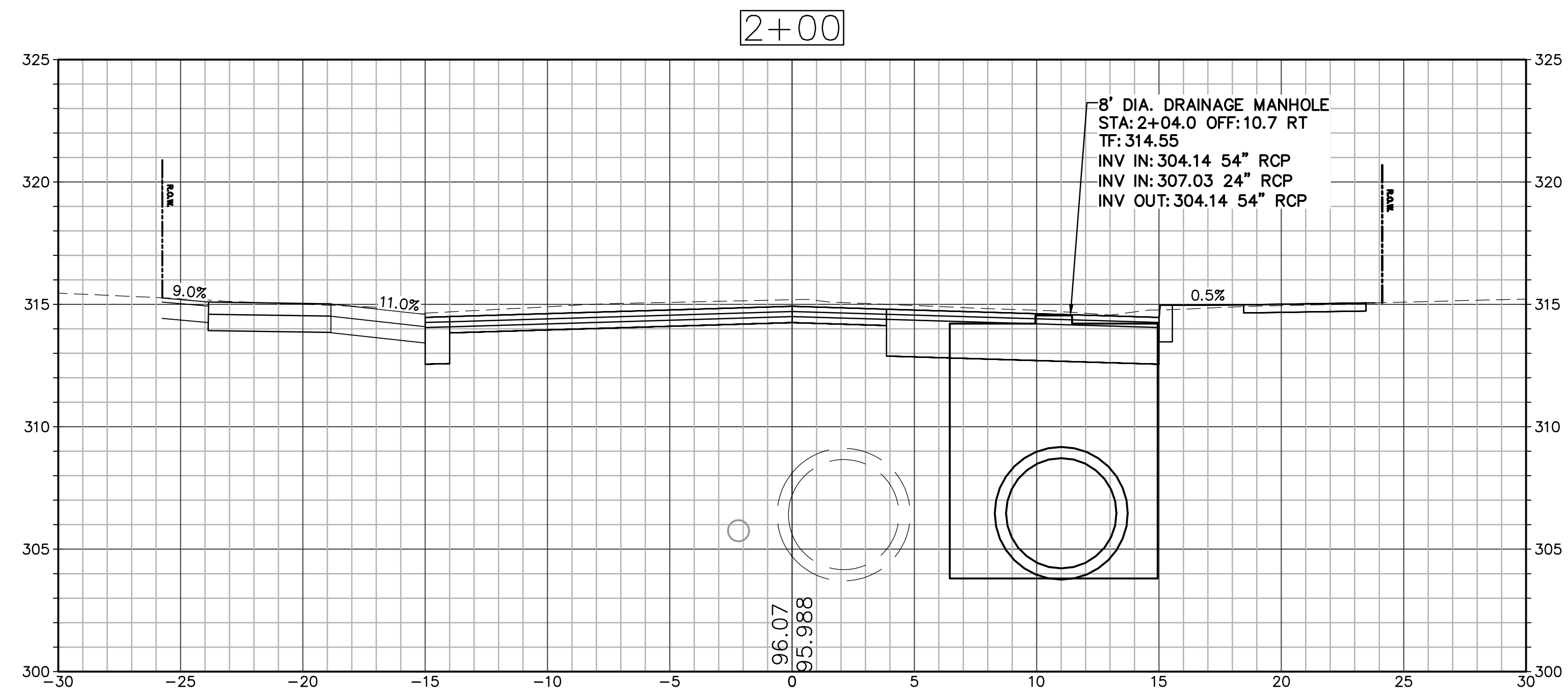
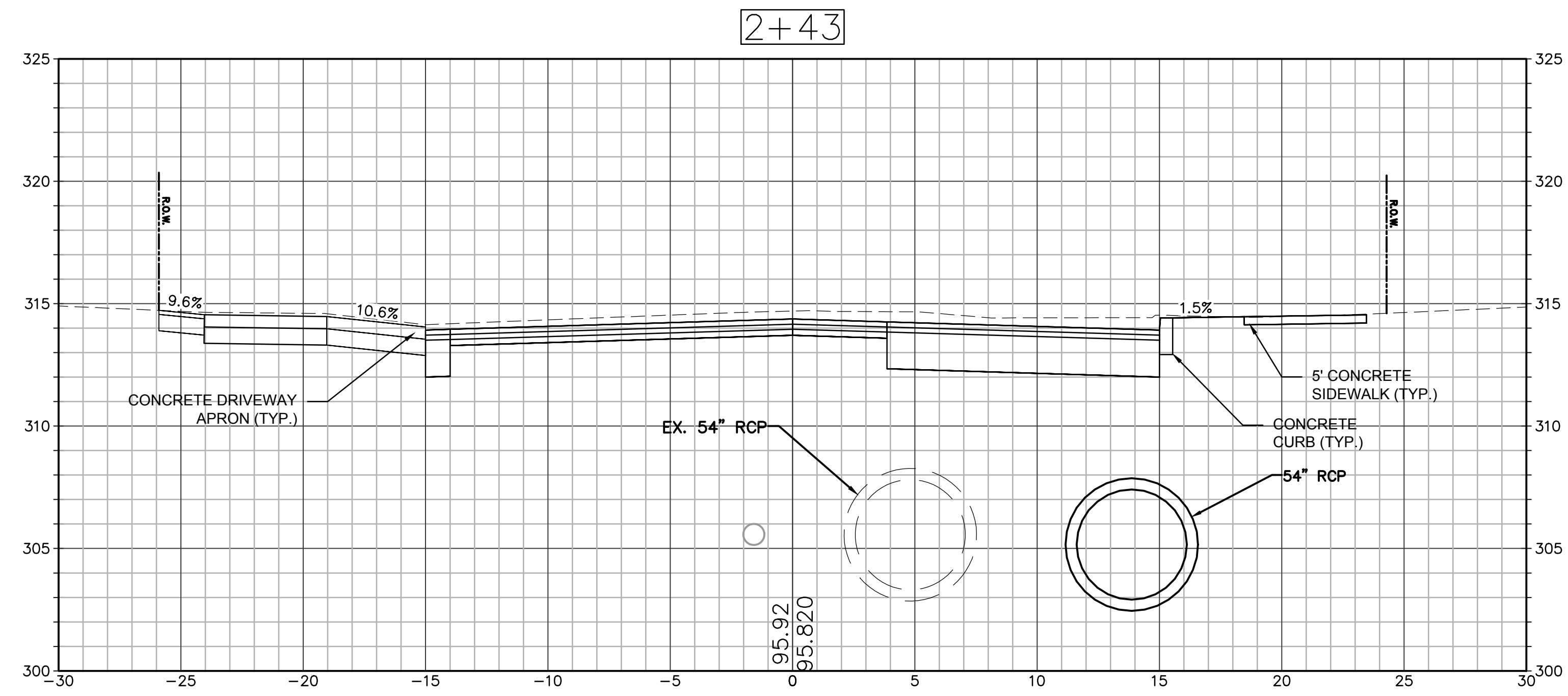
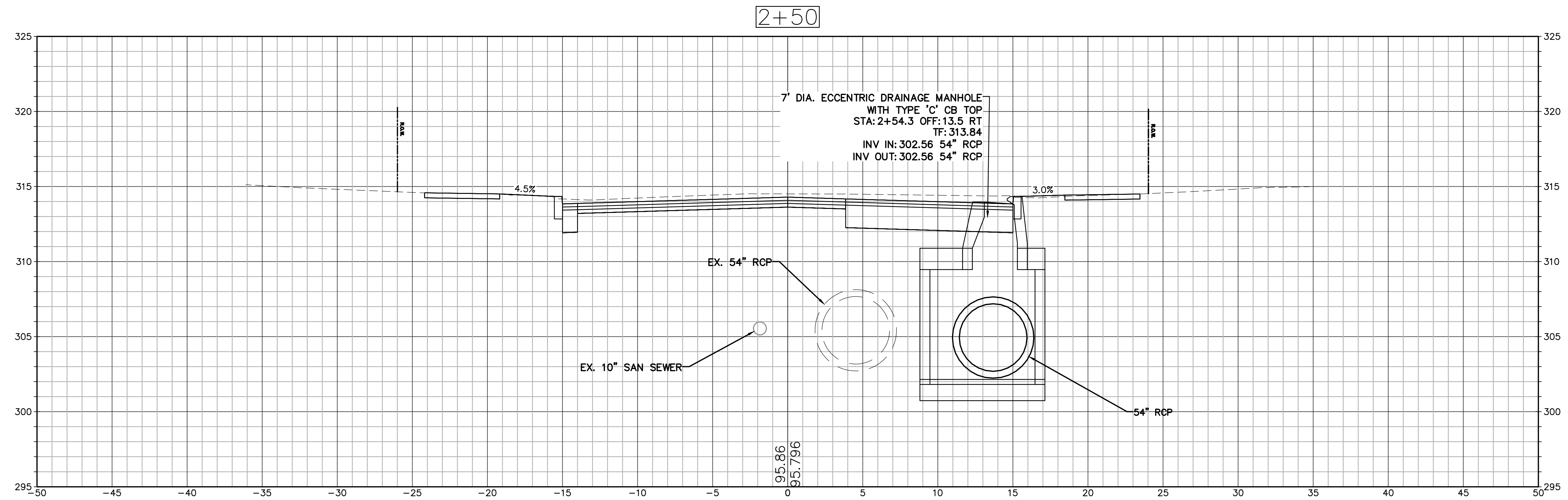
Drawing Title:

CROSS SECTIONS

Sheet Number:

C601





Revisions		
No.	Date	Description

COA:
COPYRIGHT © 2023 BY WESTON & SAMPSON
THIS DRAWING HAS BEEN PREPARED FOR THE
EXCLUSIVE USE OF THE CLIENT & PROJECT NAME
LISTED ON THIS DRAWING ONLY.
REPRODUCTION, RELEASE OF UTILIZATION OF THE
DRAWING CONTENT BY OTHER CLIENTS / FIRMS AND
ON OTHER PROJECTS IS PROHIBITED BY LAW.
WESTON & SAMPSON RETAINS THE EXCLUSIVE USE
OF THE INTELLECTUAL PROPERTY CONTAINED
HEREIN.

Seal:

Issued For:

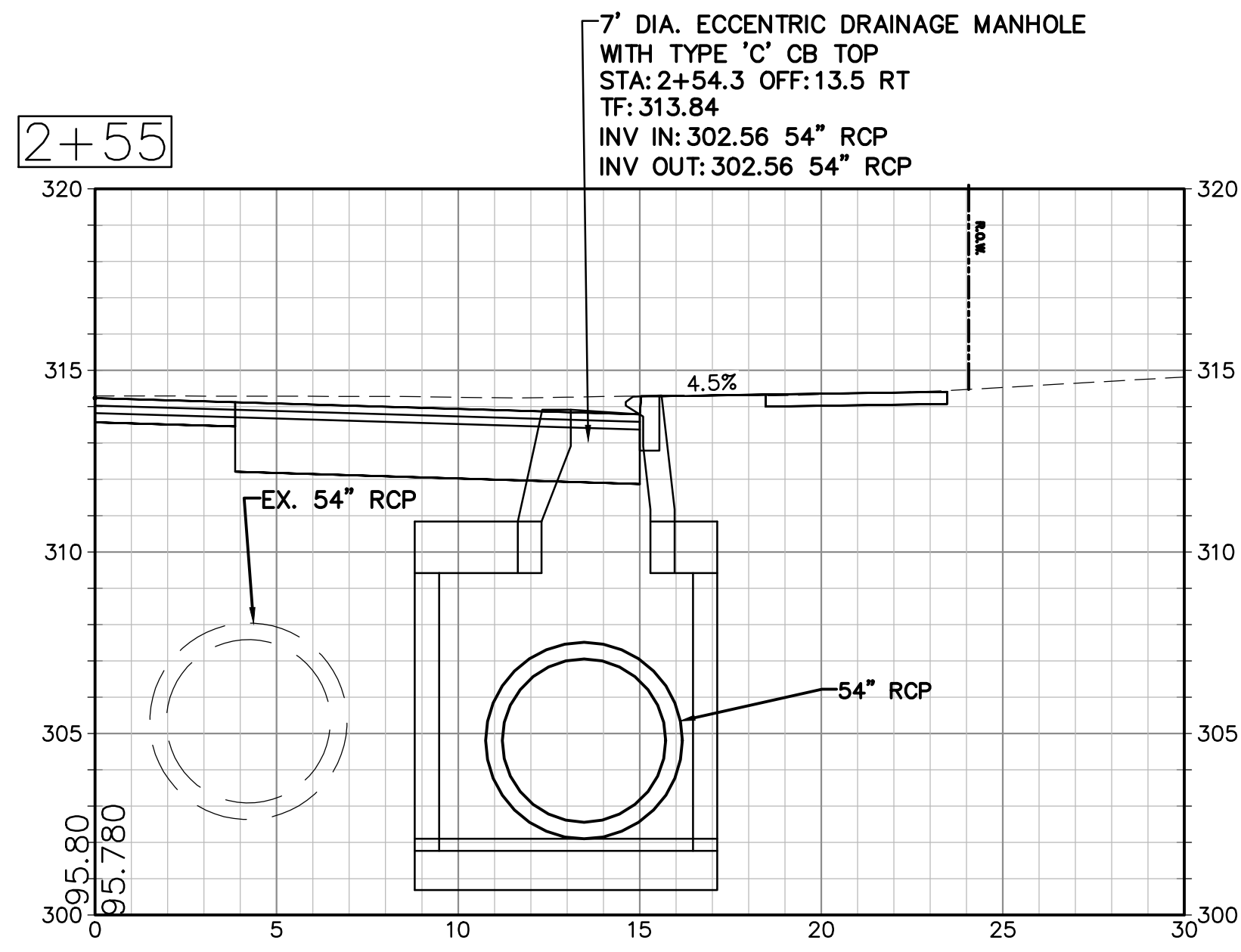
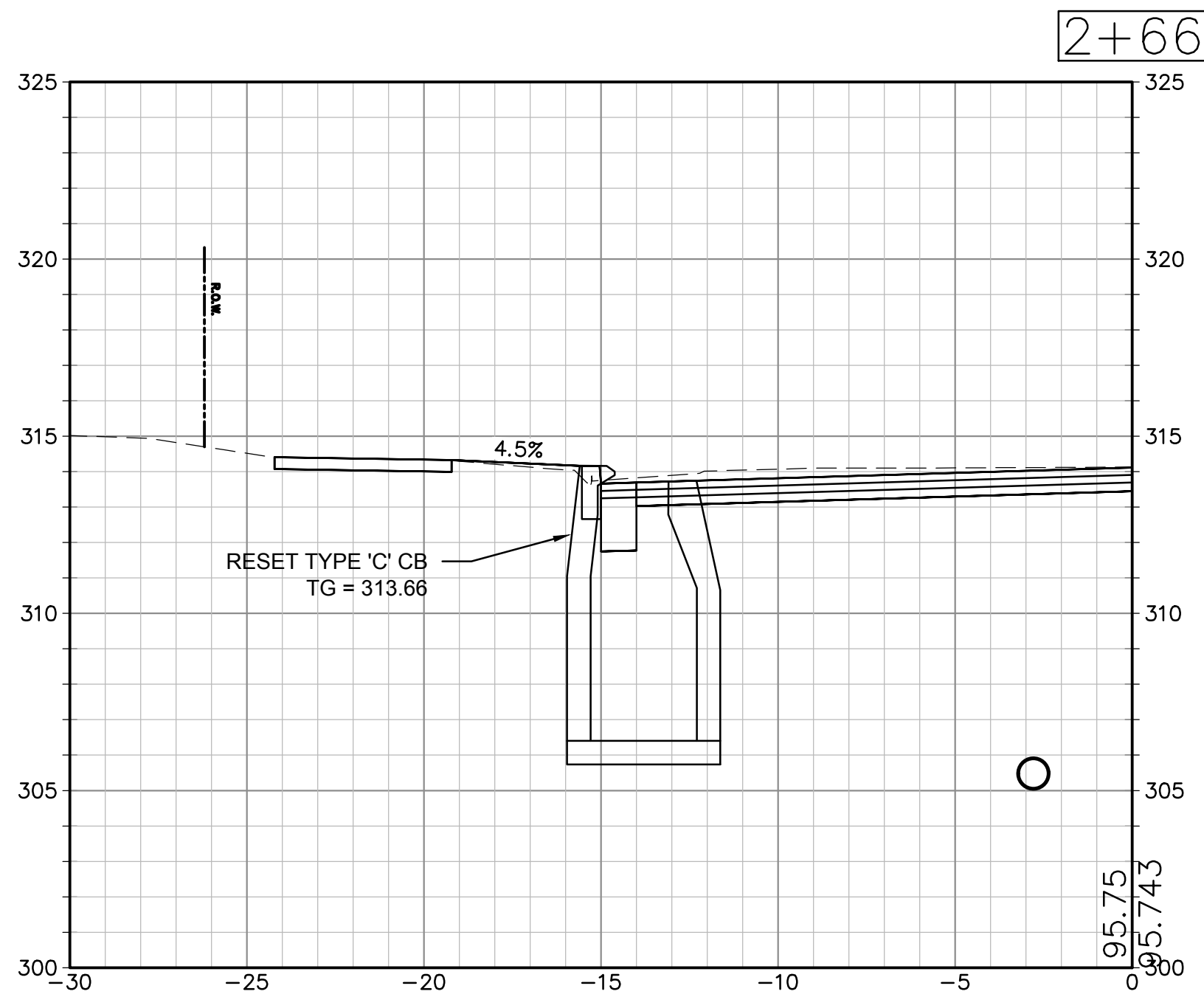
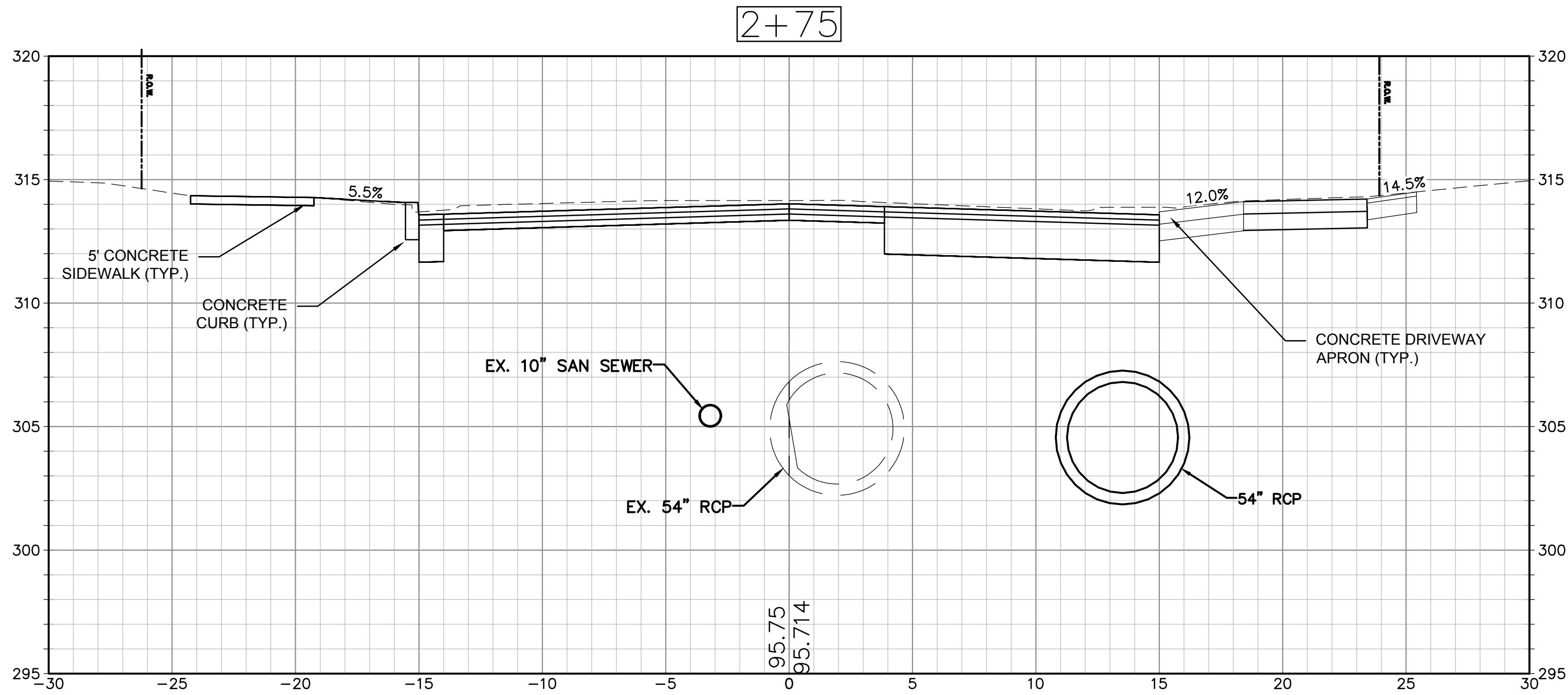
Scale: 1" = 4'

Date: 07/03/2024
Drawn By: AMN
Reviewed By: LEC
Approved By: MJJ
W&S Project No.: ENG23-2939
W&S File No.:

Drawing Title:
CROSS SECTIONS

Sheet Number:
C602

I:\w013\w013\W013\Pages\27New Britain\CT060223\27New Britain.dwg, Drawing: Drainage, Date: 07/03/2024, User: AMN



Revisions:		
No.	Date	Description

COA:

COPYRIGHT © 2023 BY WESTON & SAMPSON
THIS DRAWING HAS BEEN PREPARED FOR THE
EXCLUSIVE USE OF THE CLIENT & PROJECT NAME
LISTED ON THIS DRAWING ONLY.

REPRODUCTION, RELEASE OF UTILIZATION OF THE
DRAWING CONTENT BY OTHER CLIENTS / FIRMS AND
ON OTHER PROJECTS IS PROHIBITED BY LAW.

WESTON & SAMPSON RETAINS THE EXCLUSIVE USE
OF THE INTELLECTUAL PROPERTY CONTAINED
HEREIN.

Seal:

Issued For:

Scale: 1" = 4'

Date: 07/03/2024
Drawn By: AMN
Reviewed By: LEC
Approved By: MJJ

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

Drawing Title:

CROSS SECTIONS

Sheet Number:

C603

Consultants:

Revisions:		
No.	Date	Description

COA:
COPYRIGHT © 2023 BY WESTON & SAMPSON
THIS DRAWING HAS BEEN PREPARED FOR THE
EXCLUSIVE USE OF THE CLIENT & PROJECT NAME
LISTED ON THIS DRAWING ONLY.
REPRODUCTION, RELEASE OF UTILIZATION OF THE
DRAWING CONTENT BY OTHER CLIENTS / FIRMS AND
ON OTHER PROJECTS IS PROHIBITED BY LAW.
WESTON & SAMPSON RETAINS THE EXCLUSIVE USE
OF THE INTELLECTUAL PROPERTY CONTAINED
HEREIN.

Seal:

Issued For:

Scale: 1" = 4'

Date: 07/03/2024
Drawn By: AMN
Reviewed By: LEC
Approved By: MJJ

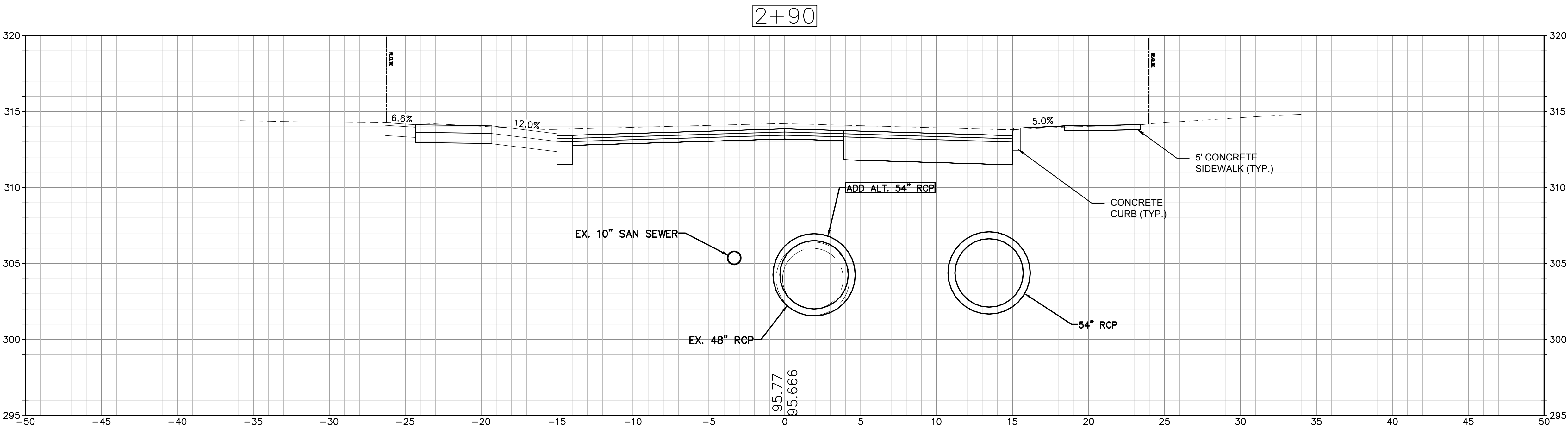
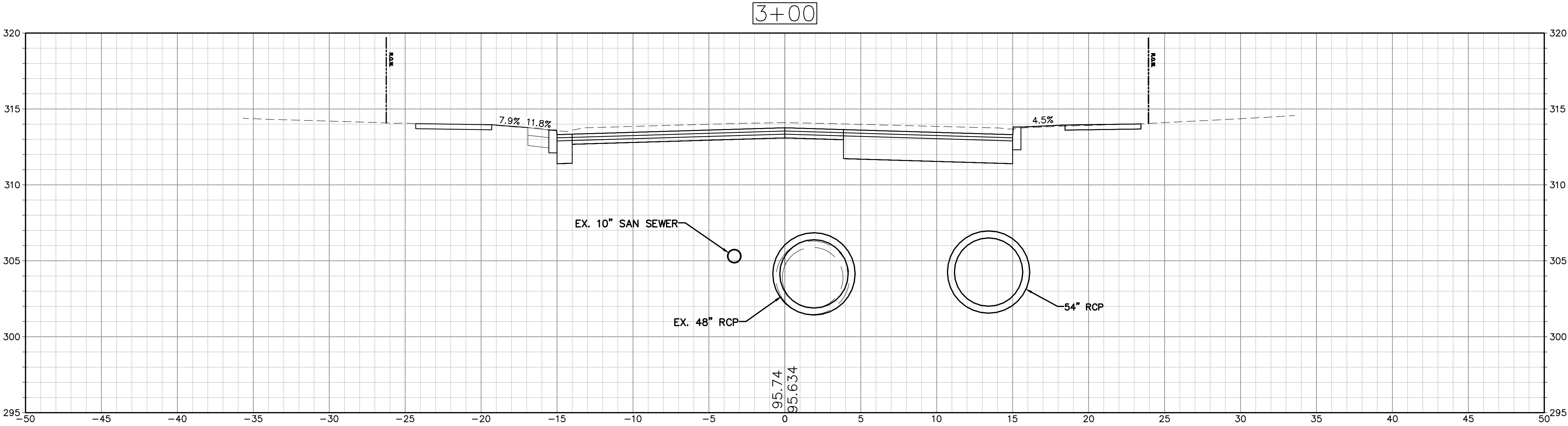
W&S Project No.: ENG23-2939
W&S File No.:

Drawing Title:

CROSS SECTIONS

Sheet Number:

C604



Revisions:

[illegible]

COPYRIGHT © 2023 BY WESTON & SAMPSON
THIS DRAWING HAS BEEN PREPARED FOR THE
EXCLUSIVE USE OF THE CLIENT & PROJECT NAME
LISTED ON THIS DRAWING ONLY.

REPRODUCTION, RELEASE OF UTILIZATION OF THE
DRAWING CONTENT BY OTHER CLIENTS / FIRMS AND
ON OTHER PROJECTS IS PROHIBITED BY LAW.

WESTON & SAMPSON RETAINS THE EXCLUSIVE USE
OF THE INTELLECTUAL PROPERTY CONTAINED
HEREIN.

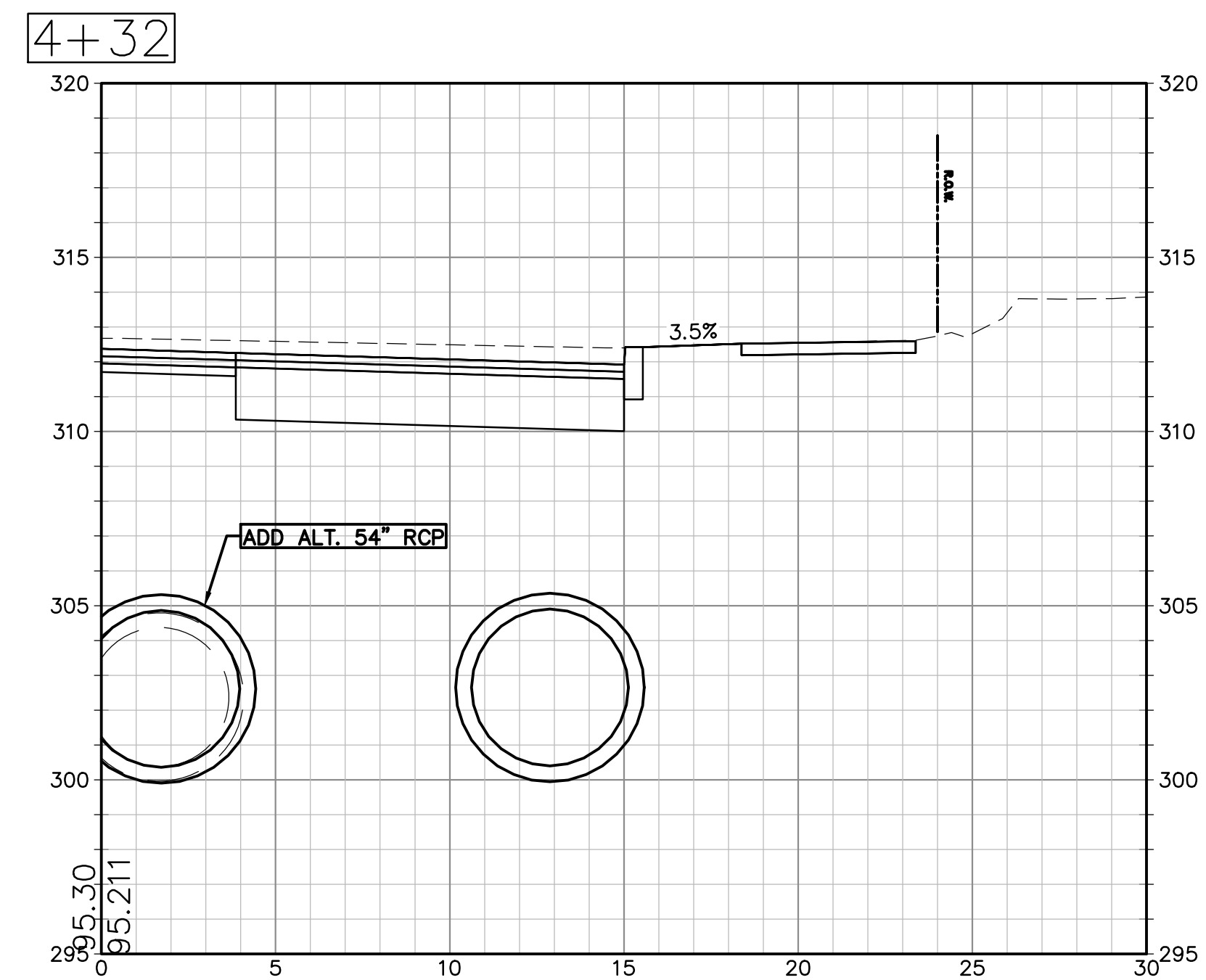
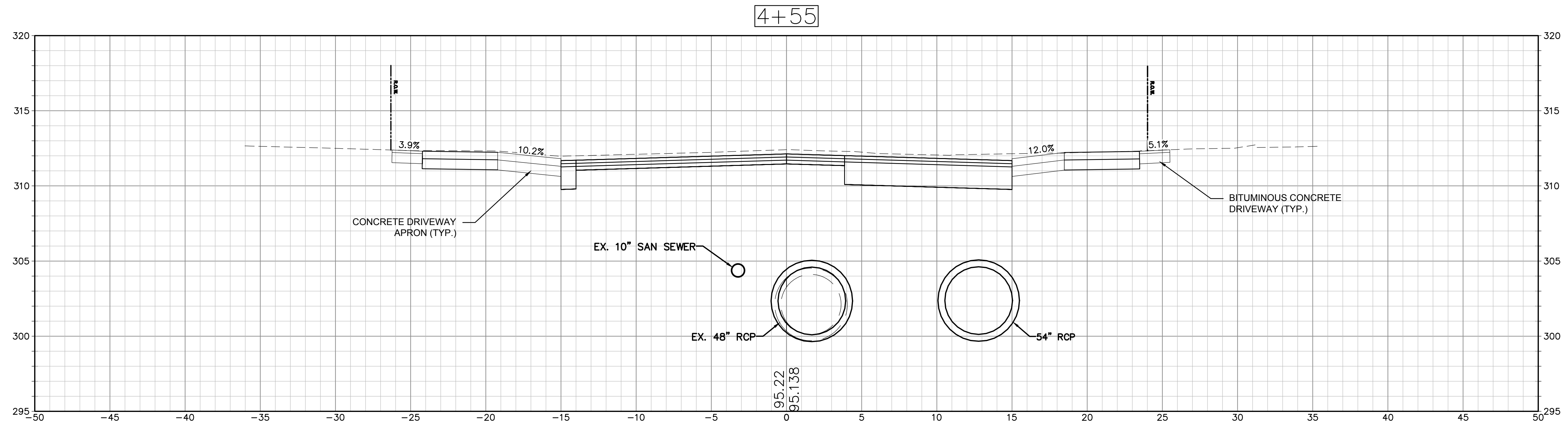
Issued For:

Scale: 1" = 4'

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

Sheet Number:

C606



Weston & Sampson
Weston & Sampson Engineers, Inc.
712 Brook Street
Rocky Hill, CT 06067
978.532.1900 800.SAMPSON
www.westonandsampson.com

1

[illegible]

COA:

COPYRIGHT © 2023 BY WESTON & SAMPSON
THIS DRAWING HAS BEEN PREPARED FOR THE
EXCLUSIVE USE OF THE CLIENT & PROJECT NAME
LISTED ON THIS DRAWING ONLY.

REPRODUCTION, RELEASE OF UTILIZATION OF THE
DRAWING CONTENT BY OTHER CLIENTS / FIRMS AND
ON OTHER PROJECTS IS PROHIBITED BY LAW.

WESTON & SAMPSON RETAINS THE EXCLUSIVE USE
OF THE INTELLECTUAL PROPERTY CONTAINED
HEREIN.

1

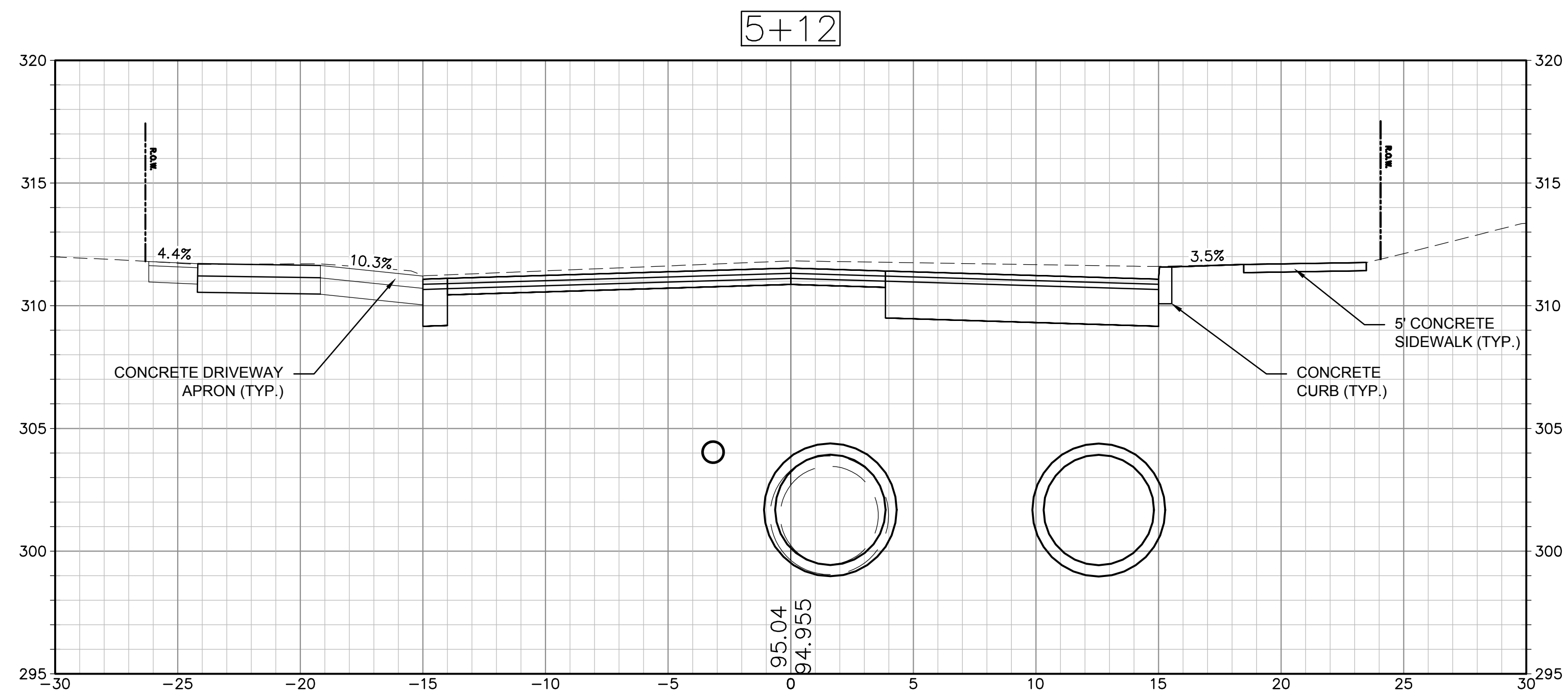
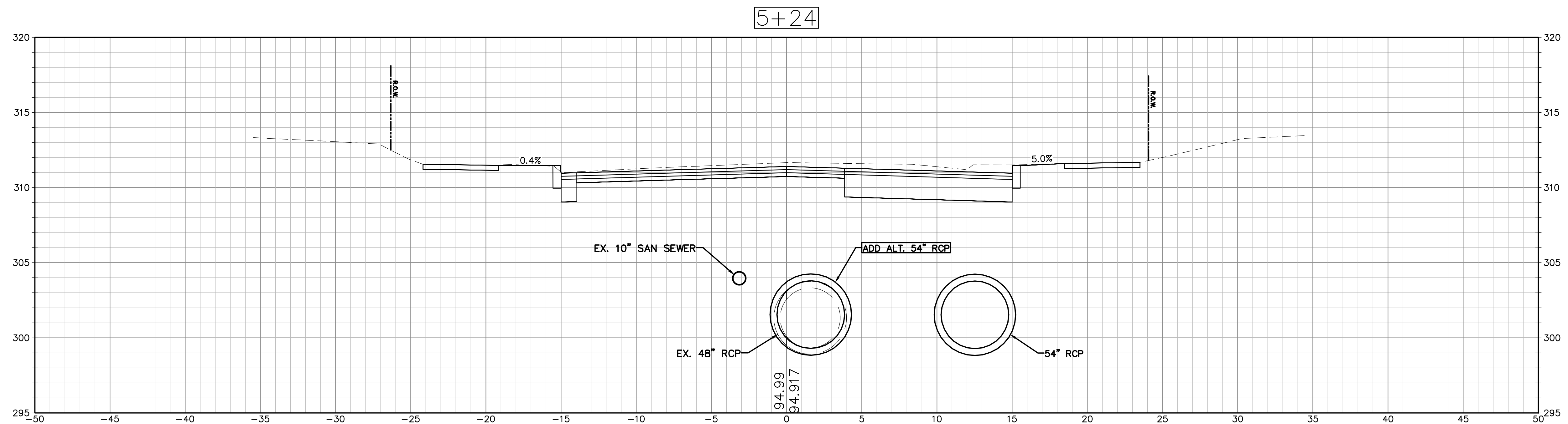
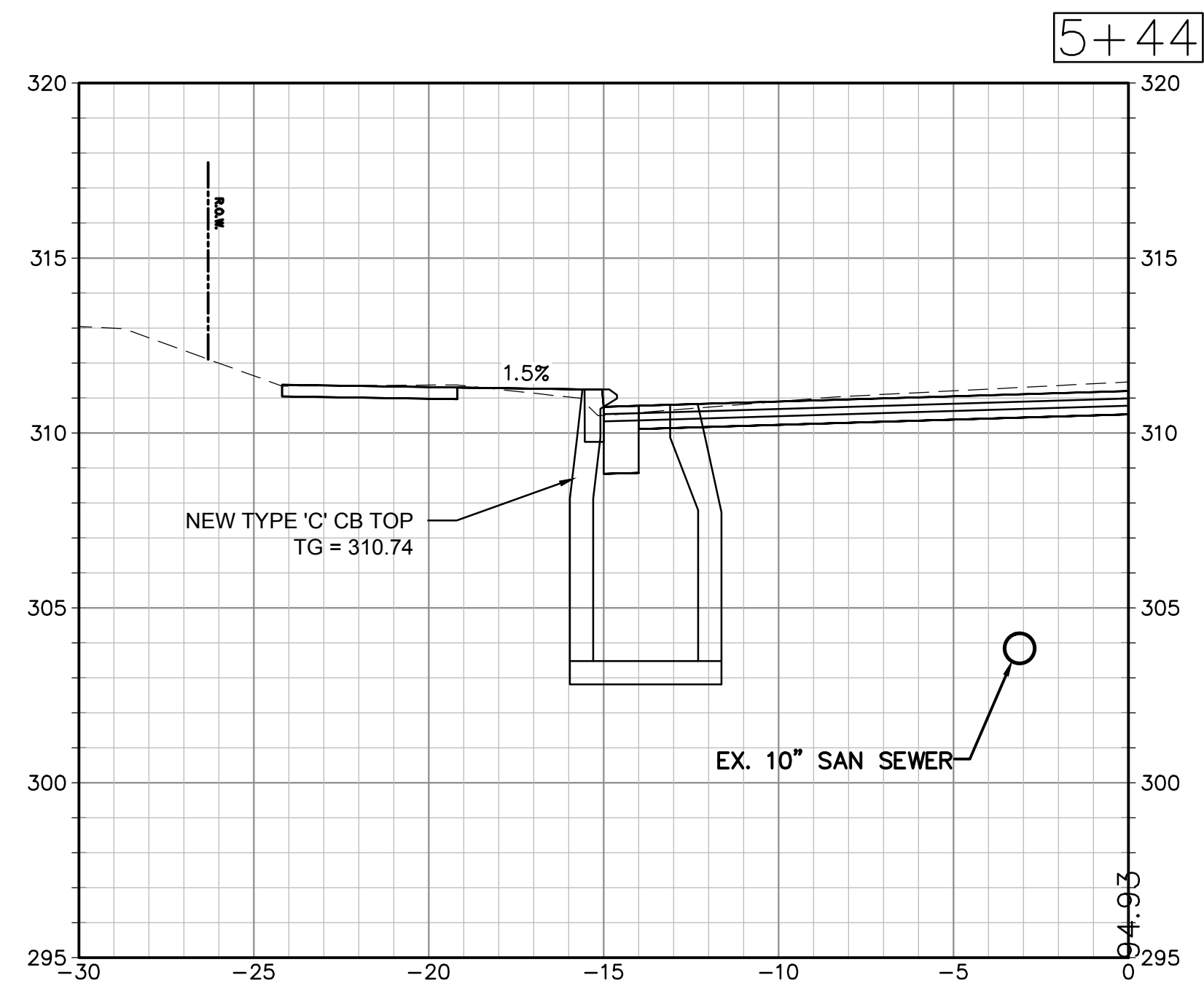
11/11/2016

--	--

Date:	07/03/2024
Drawn By:	AMN
Reviewed By:	LEC
Approved By:	MJJ
W&S Project No.:	ENG23-2939
W&S File No.:	

CROSS SECTIONS

C607



Consultants:

Revisions		
No.	Date	Description

COA:
COPYRIGHT © 2023 BY WESTON & SAMPSON
THIS DRAWING HAS BEEN PREPARED FOR THE
EXCLUSIVE USE OF THE CLIENT & PROJECT NAME
LISTED ON THIS DRAWING ONLY.
REPRODUCTION, RELEASE OF UTILIZATION OF THE
DRAWING CONTENT BY OTHER CLIENTS / FIRMS AND
ON OTHER PROJECTS IS PROHIBITED BY LAW.
WESTON & SAMPSON RETAINS THE EXCLUSIVE USE
OF THE INTELLECTUAL PROPERTY CONTAINED
HEREIN.

Seal:

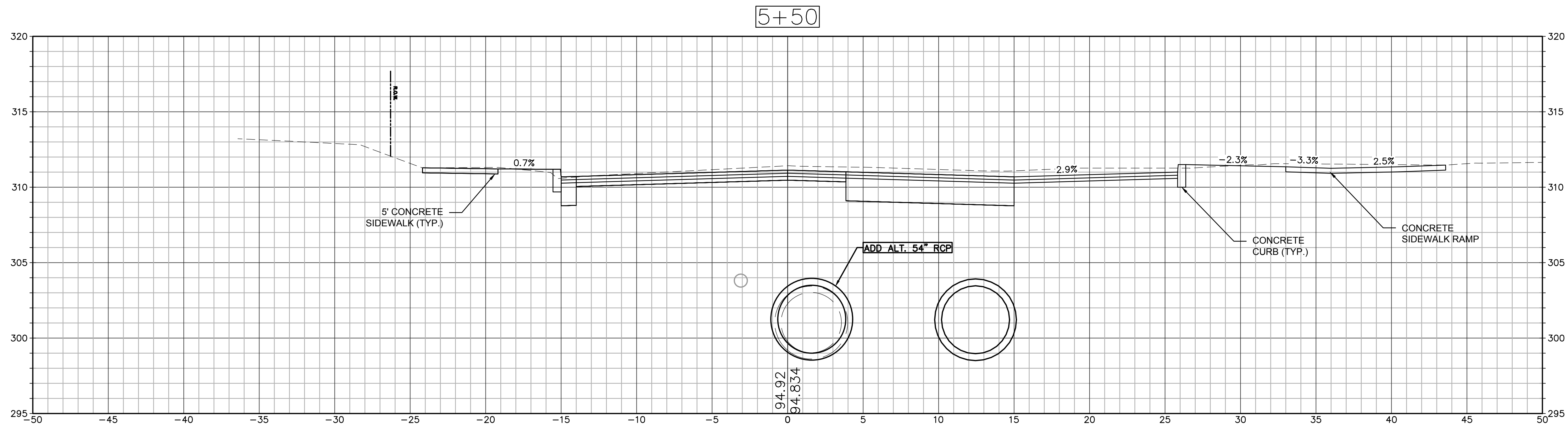
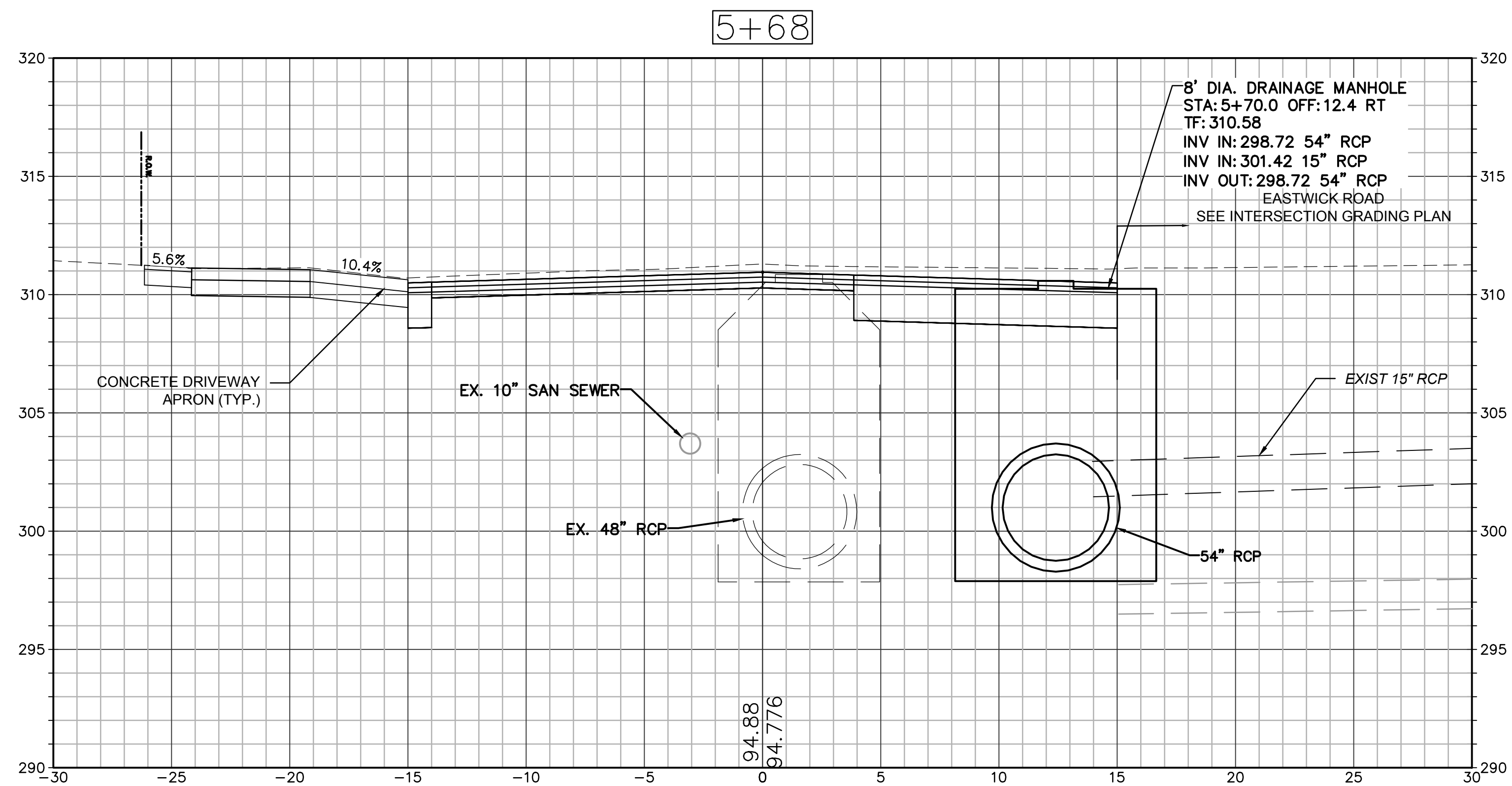
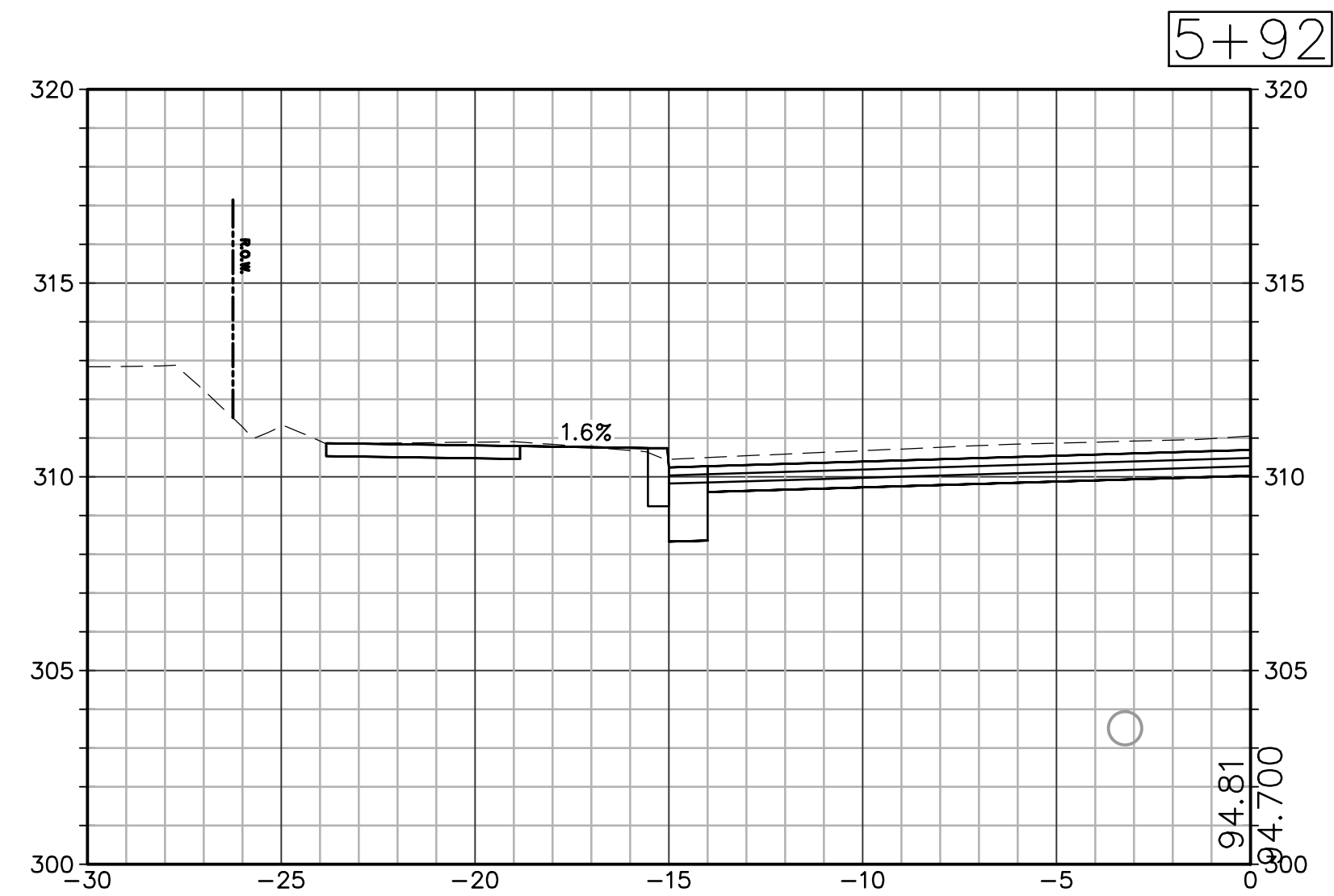
Issued For:

Scale: 1" = 4'

Date: 07/03/2024
Drawn By: AMN
Reviewed By: LEC
Approved By: MJJ
W&S Project No.: ENG23-2939
W&S File No.:

Drawing Title:
CROSS SECTIONS

Sheet Number:
C608



Weston & Sampson
Weston & Sampson Engineers, Inc.
712 Brook Street
Rocky Hill, CT 06067
978.532.1900 800.SAMPSON
www.westonandsampson.com

[illegible]

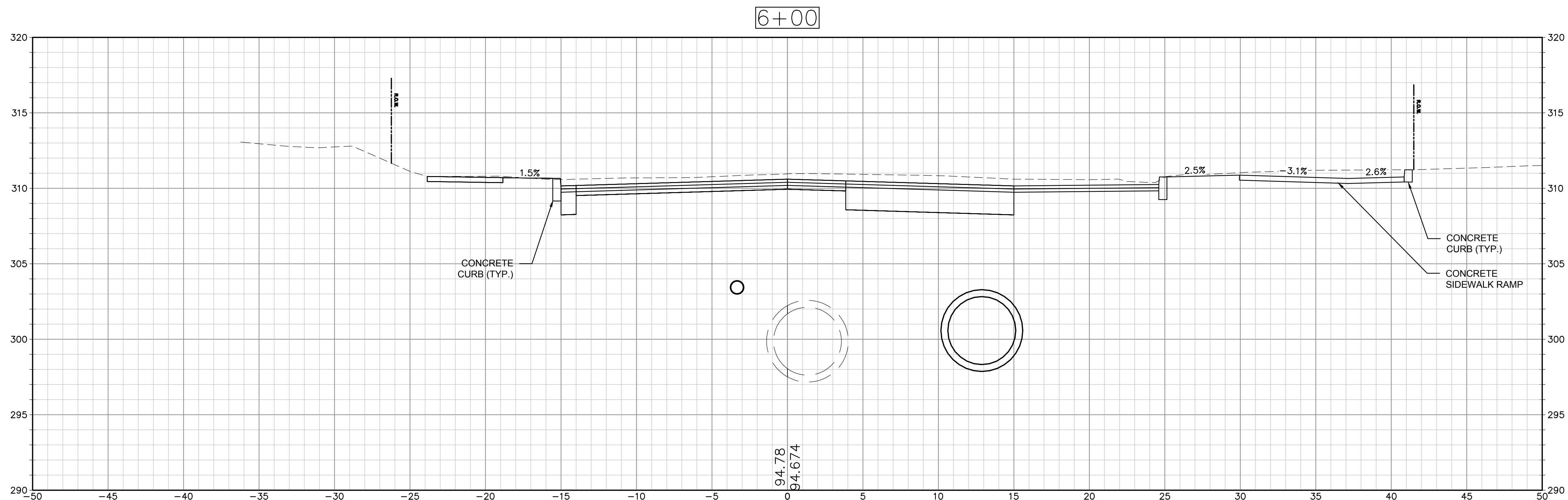
Seal:

Scale: 1" = 4'

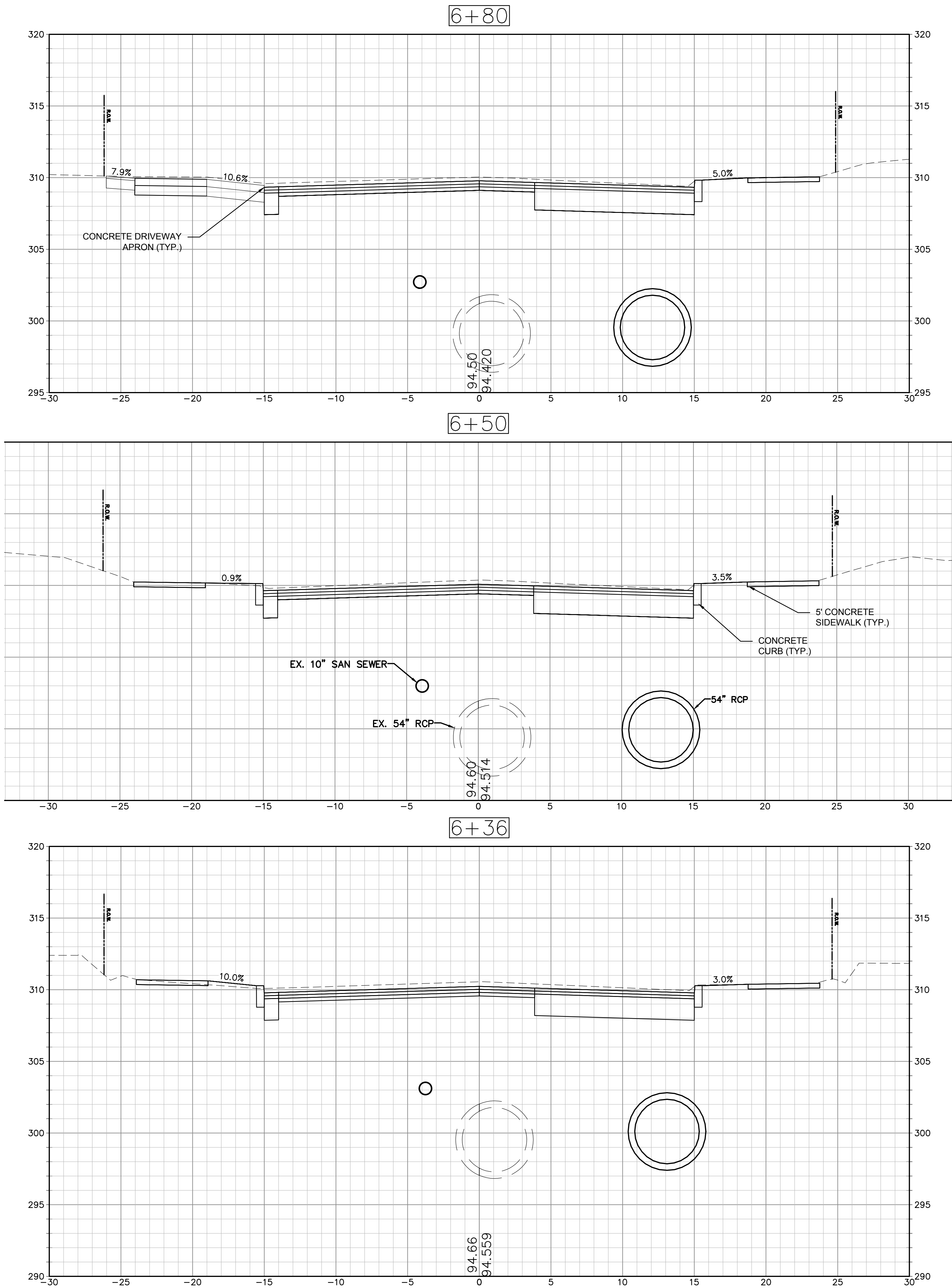
Drawing Title:

CROSS SECTIONS

COPYRIGHT © 2021 WESTON & SAMPSON, INC.



\\w031\ad\IT\Projects\22\New Britain\CT\ENG\220220\Overlook_Ave_Drainage_Design\220220\Overlook_Ave_Drainage_Design.dwg 2/2/24



Consultants:

Revisions:		
No.	Date	Description

COA:
COPYRIGHT © 2023 BY WESTON & SAMPSON
THIS DRAWING HAS BEEN PREPARED FOR THE
EXCLUSIVE USE OF THE CLIENT & PROJECT NAME
LISTED ON THIS DRAWING ONLY.
REPRODUCTION, RELEASE OF UTILIZATION OF THE
DRAWING CONTENT BY OTHER CLIENTS / FIRMS AND
ON OTHER PROJECTS IS PROHIBITED BY LAW.
WESTON & SAMPSON RETAINS THE EXCLUSIVE USE
OF THE INTELLECTUAL PROPERTY CONTAINED
HEREIN.

Seal:

Issued For:

Scale: 1" = 4'

Date: 07/03/2024
Drawn By: AMN
Reviewed By: LEC
Approved By: MJJ

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

Drawing Title:

CROSS SECTIONS

Sheet Number:

C610

Consultants:

Revisions:		
No.	Date	Description

COA:
COPYRIGHT © 2023 BY WESTON & SAMPSON
THIS DRAWING HAS BEEN PREPARED FOR THE
EXCLUSIVE USE OF THE CLIENT & PROJECT NAME
LISTED ON THIS DRAWING ONLY.
REPRODUCTION, RELEASE OF UTILIZATION OF THE
DRAWING CONTENT BY OTHER CLIENTS / FIRMS AND
ON OTHER PROJECTS IS PROHIBITED BY LAW.
WESTON & SAMPSON RETAINS THE EXCLUSIVE USE
OF THE INTELLECTUAL PROPERTY CONTAINED
HEREIN.

Seal:

Issued For:

Scale: 1" = 4'

Date: 07/03/2024
Drawn By: AMN
Reviewed By: LEC
Approved By: MJJ

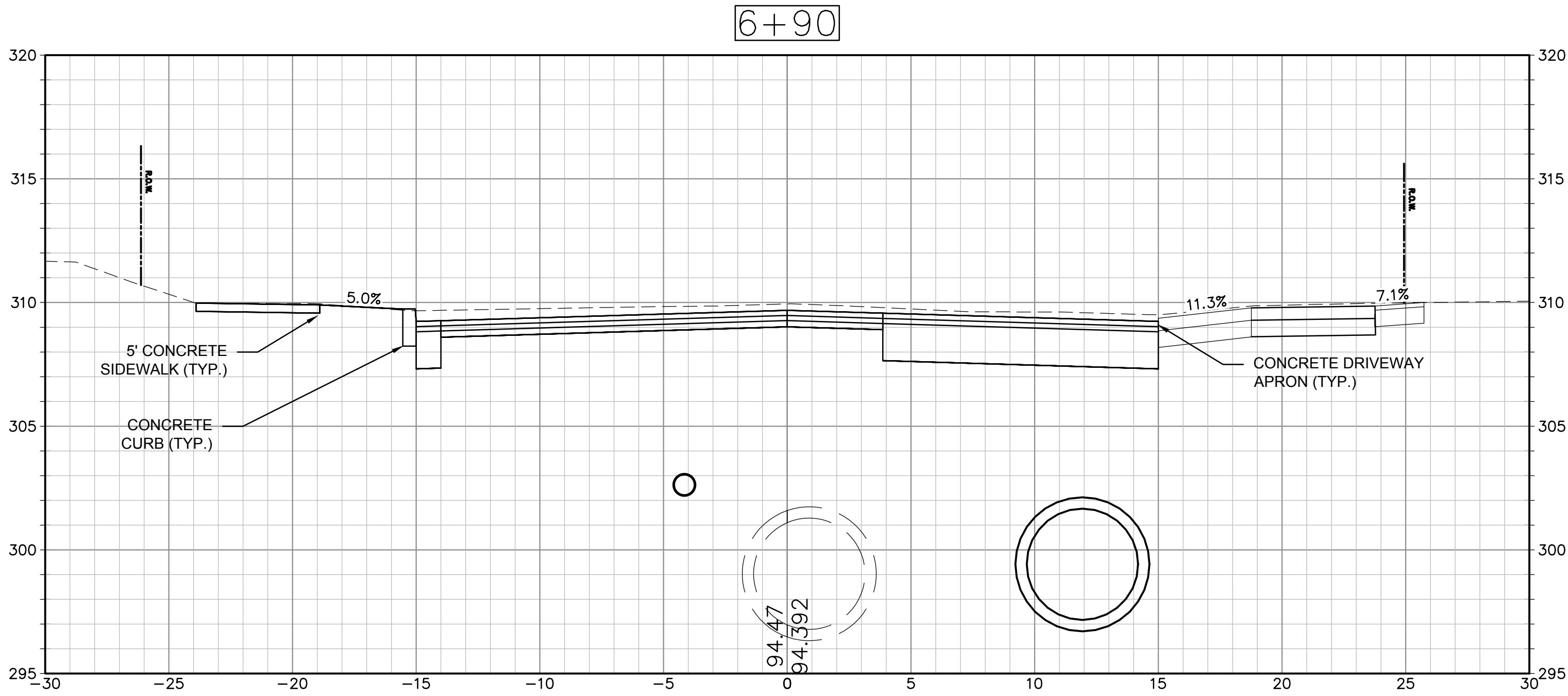
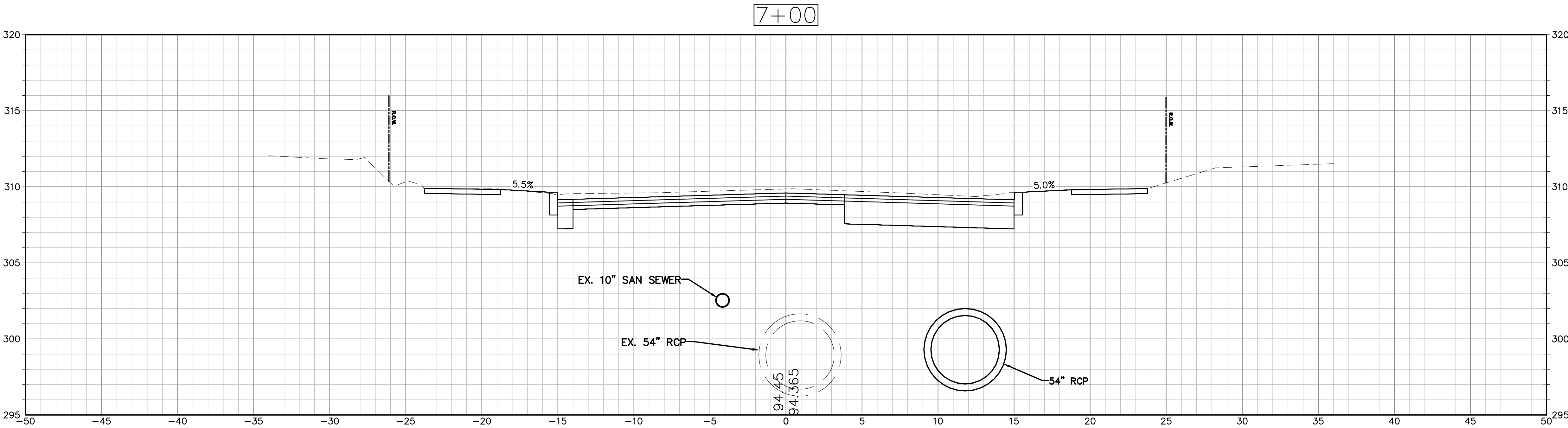
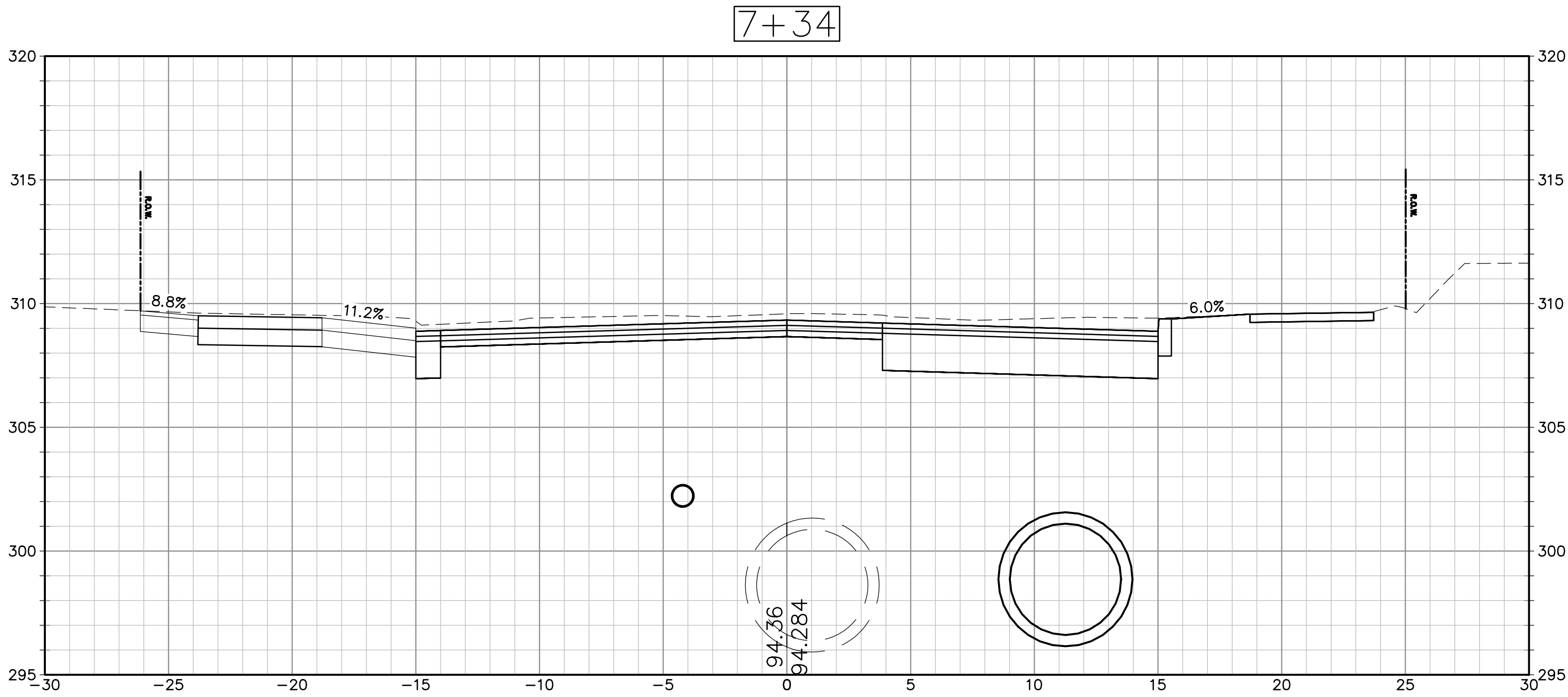
W&S Project No.: ENG23-2939
W&S File No.:

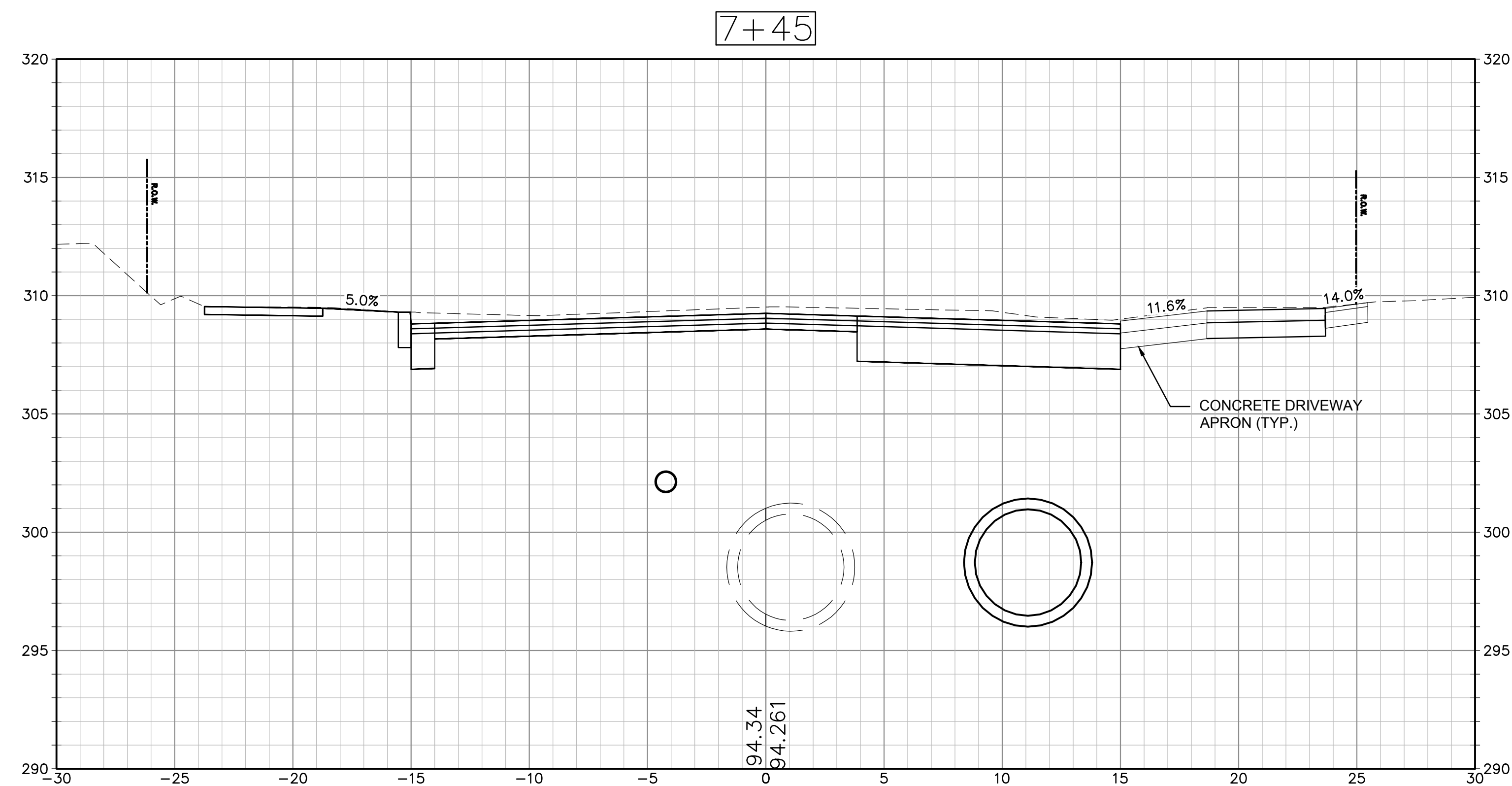
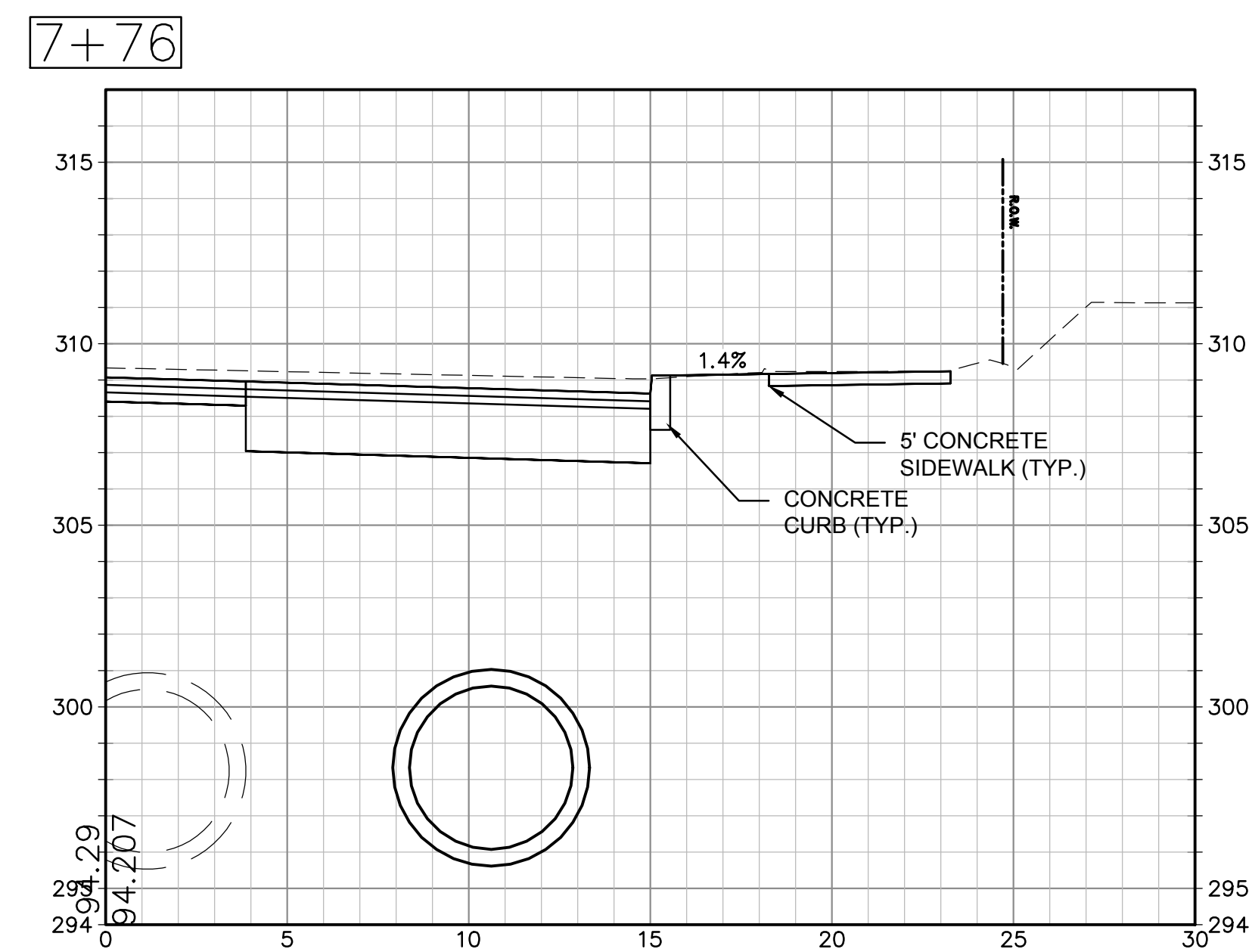
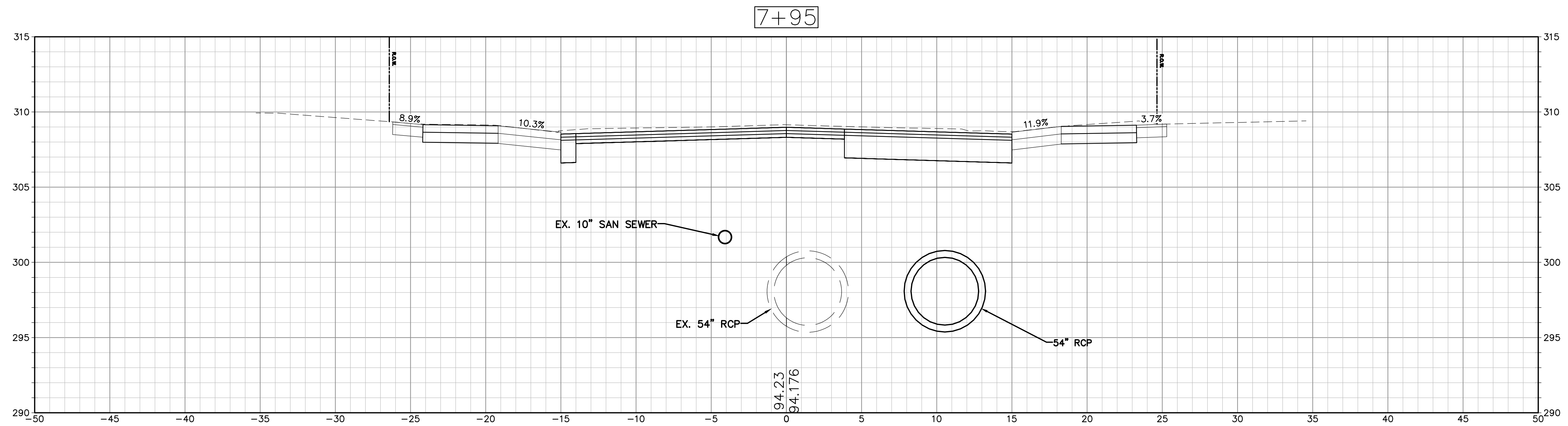
Drawing Title:

CROSS SECTIONS

Sheet Number:

C611





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



NEW BRITAIN, CT 06053

Weston & Sampson™
Weston & Sampson Engineers, Inc.
712 Brook Street
Rocky Hill, CT 06067
978.532.1900 800.SAMPSON
www.westonandsampson.com

Consultants:

[illegible]

COA:

COPYRIGHT © 2023 BY WESTON & SAMPSON
THIS DRAWING HAS BEEN PREPARED FOR THE
EXCLUSIVE USE OF THE CLIENT & PROJECT NAME
LISTED ON THIS DRAWING ONLY.

REPRODUCTION, RELEASE OF UTILIZATION OF THE
DRAWING CONTENT BY OTHER CLIENTS / FIRMS AND
ON OTHER PROJECTS IS PROHIBITED BY LAW.

WESTON & SAMPSON RETAINS THE EXCLUSIVE USE
OF THE INTELLECTUAL PROPERTY CONTAINED
HEREIN.

Seal:

ssued For:

Scale: 1" = 4'

Date: 07/03/2024
Drawn By: AMN
Reviewed By: LEC
Approved By: MJJ

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

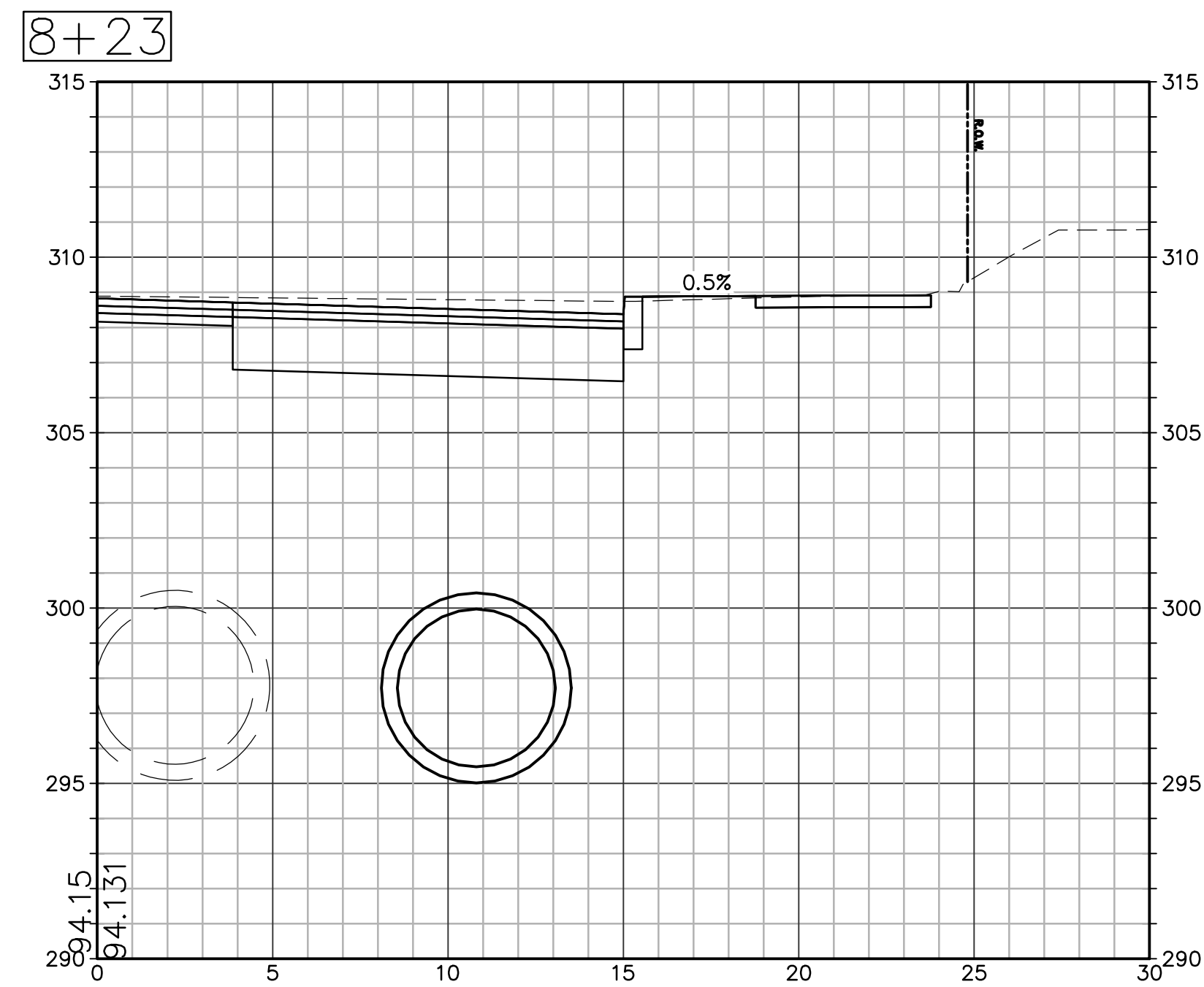
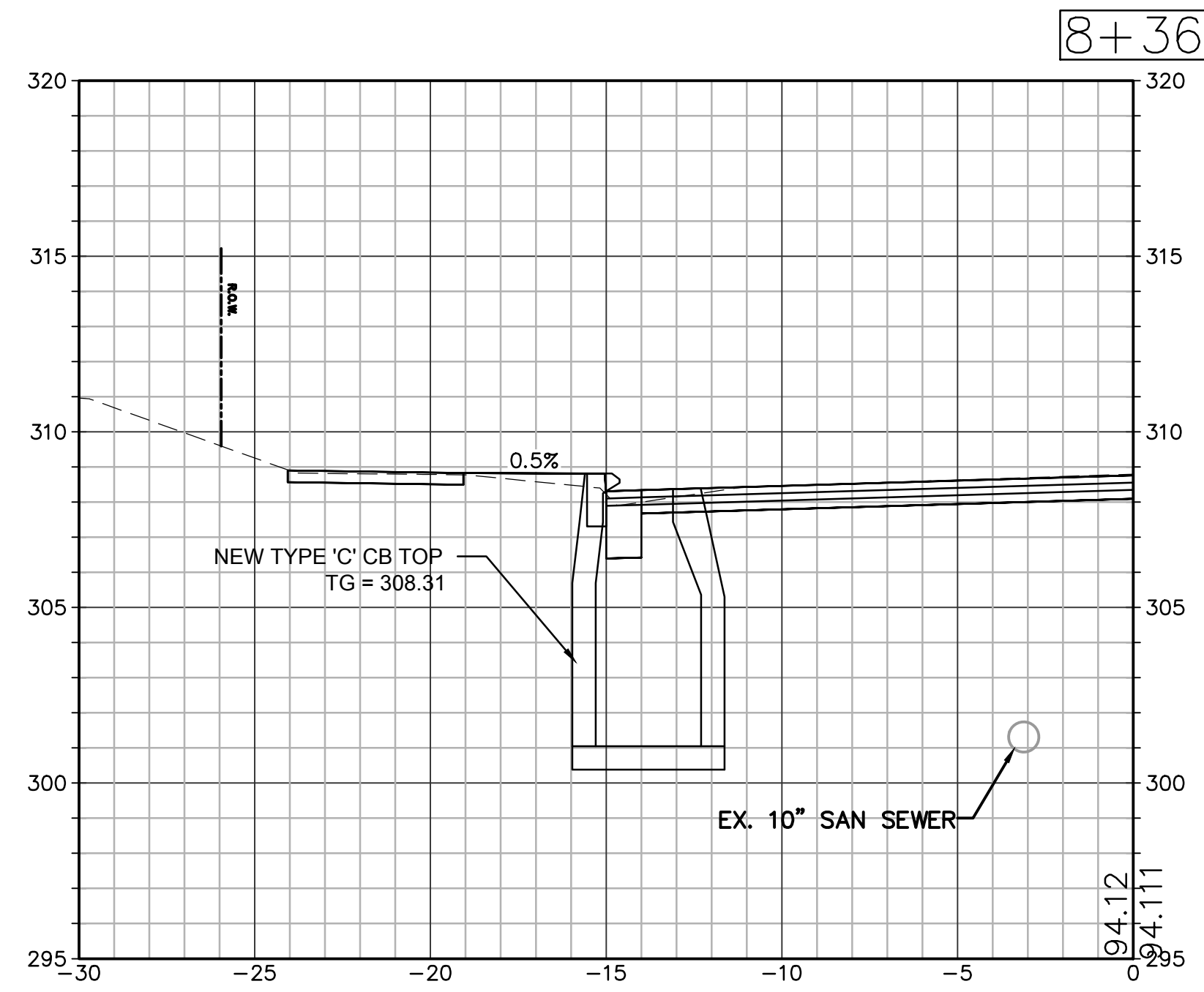
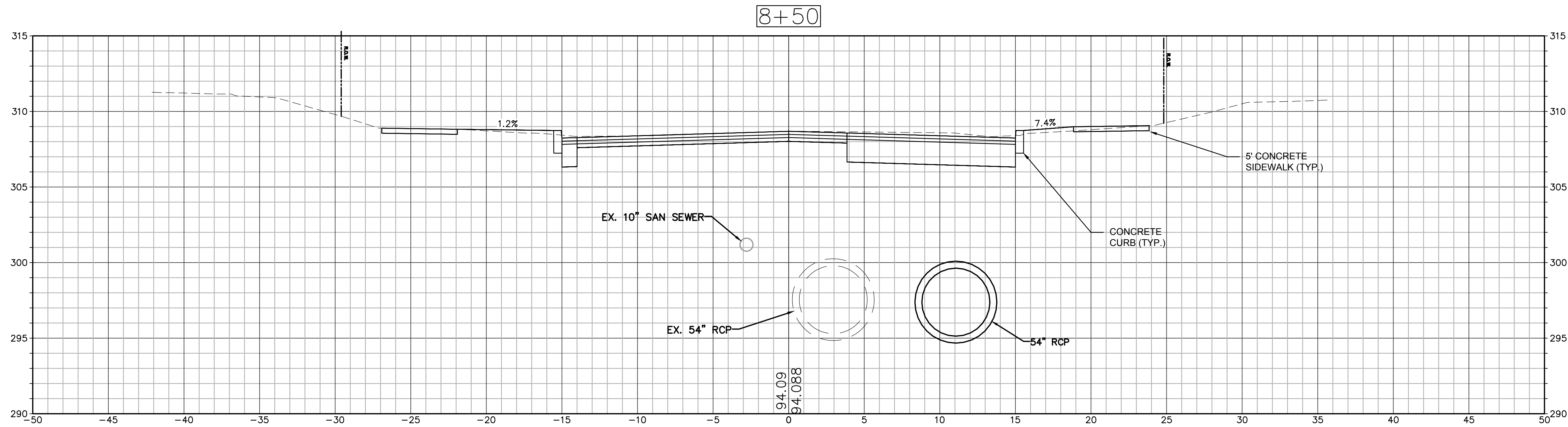
Drawing Title:

CROSS SECTIONS

Sheet Number:

C612

© 2021 WESTON & SAMPSON, INC.



Revisions		
No.	Date	Description

COA:
COPYRIGHT © 2023 BY WESTON & SAMPSON
THIS DRAWING HAS BEEN PREPARED FOR THE
EXCLUSIVE USE OF THE CLIENT & PROJECT NAME
LISTED ON THIS DRAWING ONLY.
REPRODUCTION, RELEASE OF UTILIZATION OF THE
DRAWING CONTENT BY OTHER CLIENTS / FIRMS AND
ON OTHER PROJECTS IS PROHIBITED BY LAW.
WESTON & SAMPSON RETAINS THE EXCLUSIVE USE
OF THE INTELLECTUAL PROPERTY CONTAINED
HEREIN.

Seal:

Issued For:

Scale: 1" = 4'

Date: 07/03/2024
Drawn By: AMN
Reviewed By: LEC
Approved By: MJJ
W&S Project No.: ENG23-2939
W&S File No.:

Drawing Title:

CROSS SECTIONS

Sheet Number:

C613

Weston & Sampson
Weston & Sampson Engineers, Inc.
712 Brook Street
Rocky Hill, CT 06067
978.532.1900 800.SAMPSON
www.westonandsampson.com

[illegible]

Seal:

Issued For:

Scale: 1" = 4'

--	--

W&S Project No.: ENG23-2939

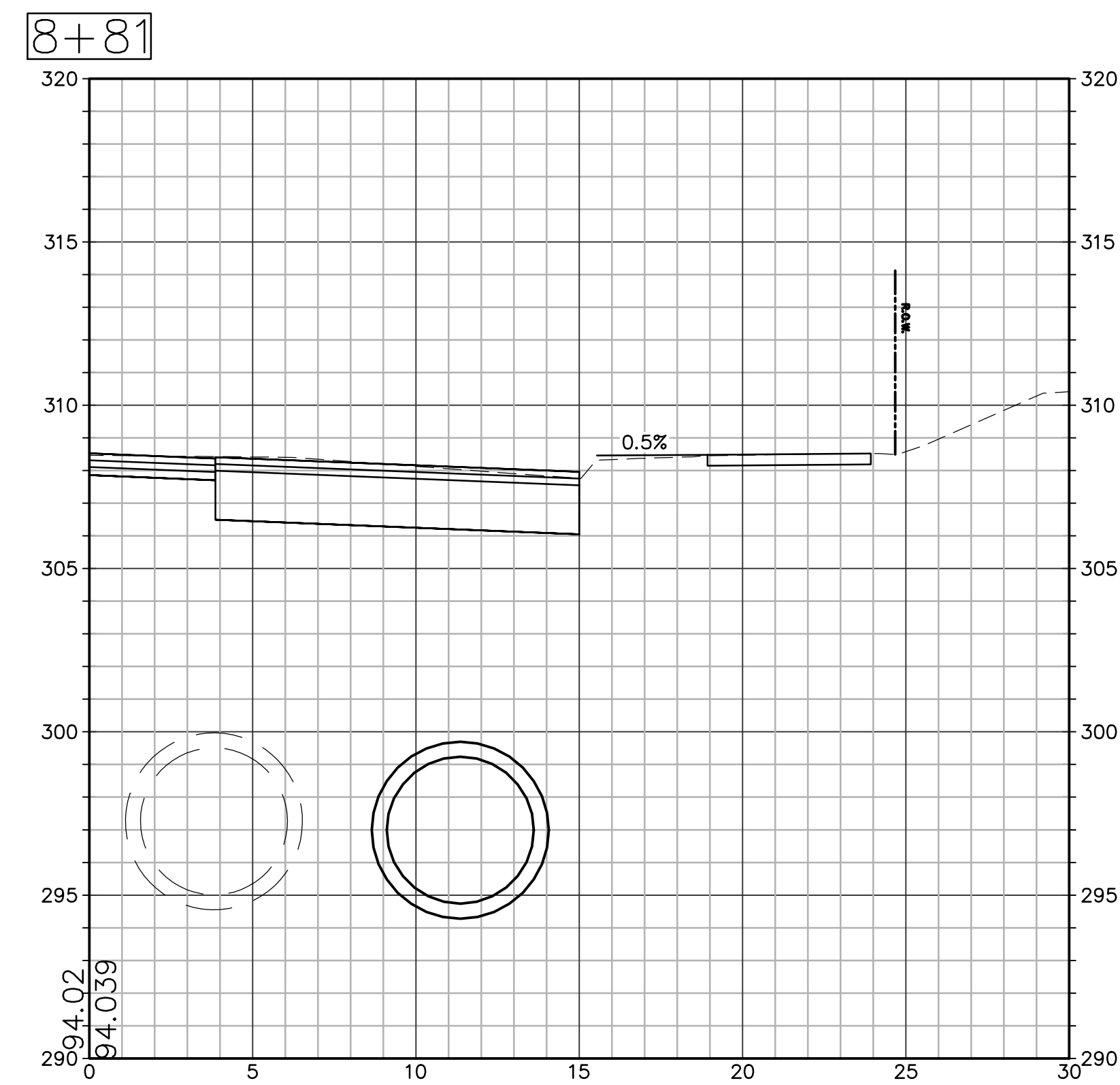
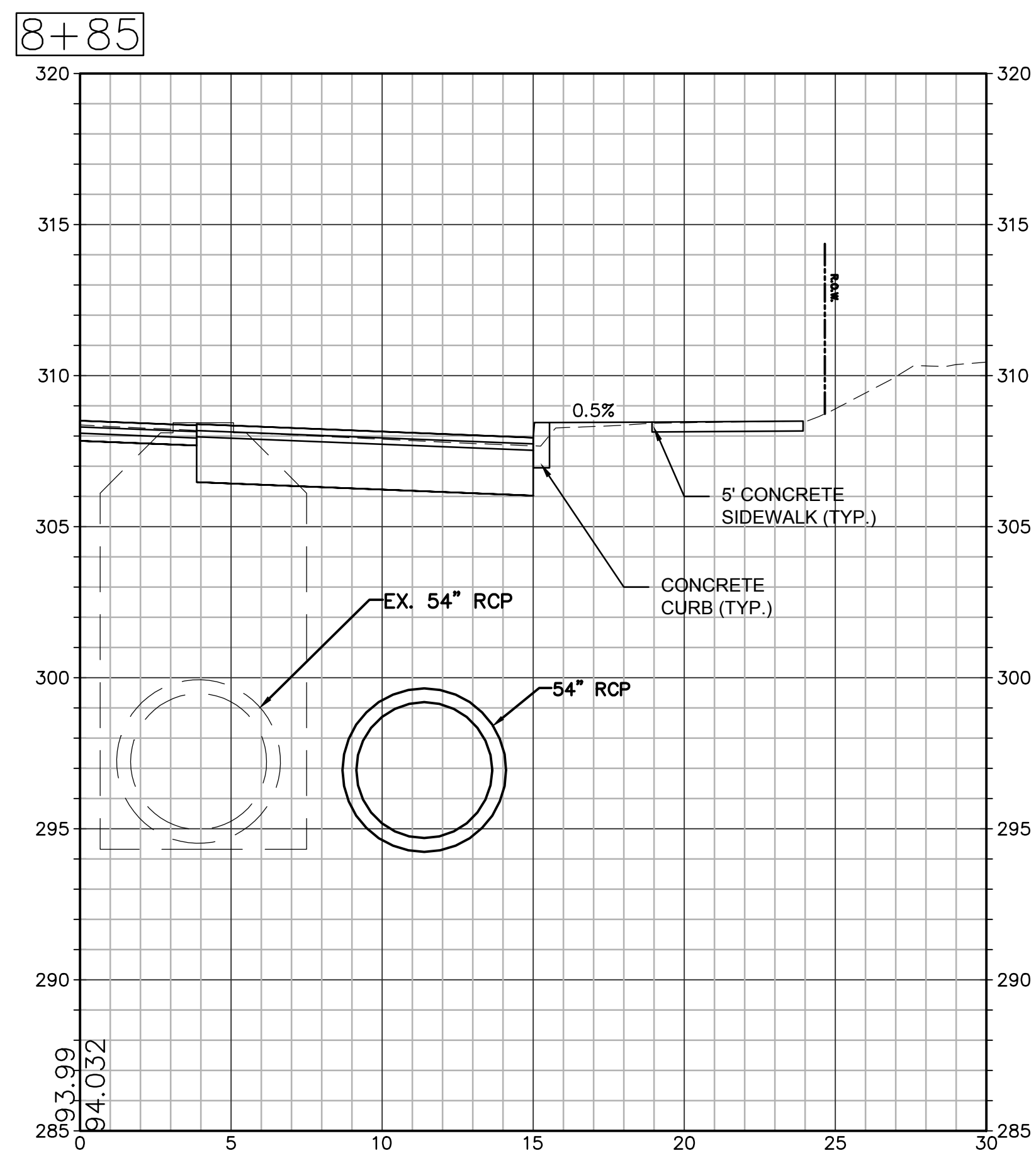
W&S File No.:

Drawing Title:

CROSS SECTIONS

Sheet Number:

C614



Downloaded from www.ascelibrary.org/ by [IP: 128.112.1.100] on [Wed, 14 Jun 2017 12:00:00 GMT]. See the Terms and Conditions (<http://www.ascelibrary.org/termsandconditions>) on ASCE Library for rules of use; OA articles are governed by the applicable Creative Commons License

Weston & SampsonSM
Weston & Sampson Engineers, Inc.
712 Brook Street
Rocky Hill, CT 06067
978.532.1900 800.SAMPSON
www.westonandsampson.com

Consultants:

[illegible]

COA:

COPYRIGHT © 2023 BY WESTON & SAMPSON
THIS DRAWING HAS BEEN PREPARED FOR THE
EXCLUSIVE USE OF THE CLIENT & PROJECT NAME
LISTED ON THIS DRAWING ONLY.

REPRODUCTION, RELEASE OF UTILIZATION OF THE
DRAWING CONTENT BY OTHER CLIENTS / FIRMS AND
ON OTHER PROJECTS IS PROHIBITED BY LAW.

WESTON & SAMPSON RETAINS THE EXCLUSIVE USE
OF THE INTELLECTUAL PROPERTY CONTAINED
HEREIN.

Seal:

Issued For:

Scale: 1" = 4'

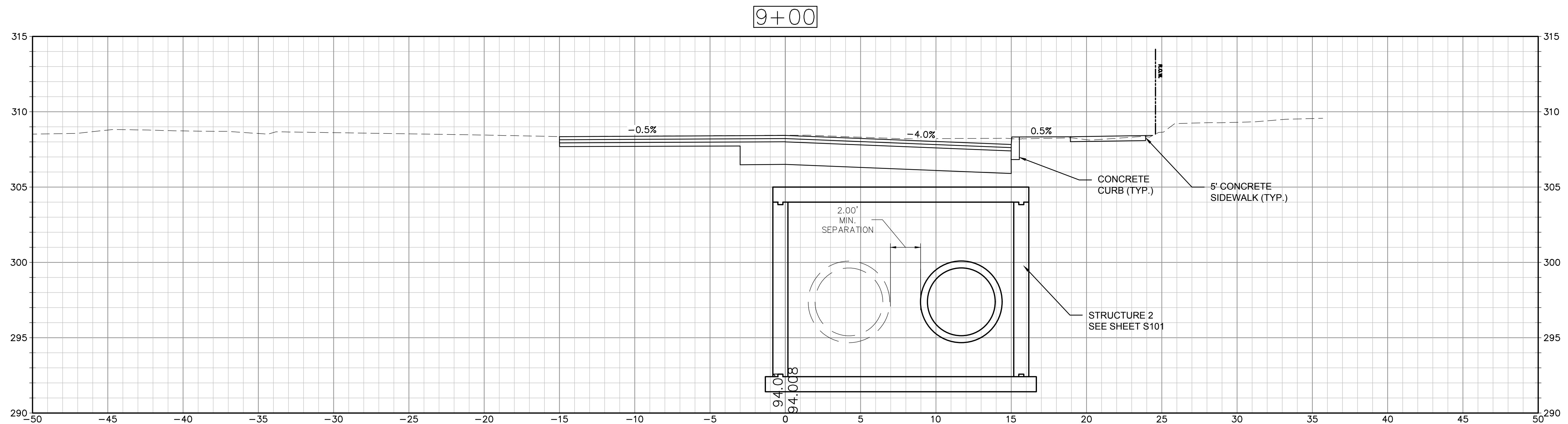
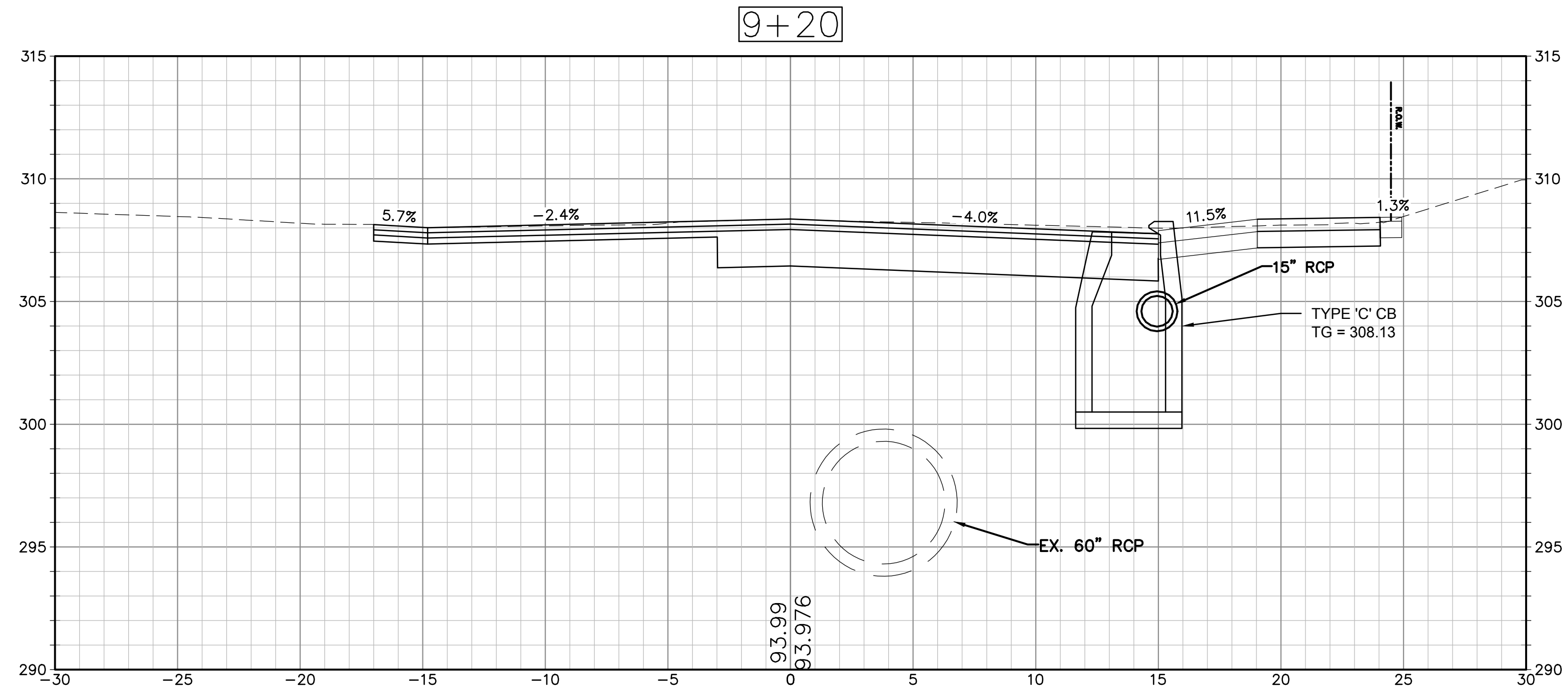
Date:	07/03/2024
Drawn By:	AMN
Reviewed By:	LEC
Approved By:	MJJ
W&S Project No.:	ENG23-2939
W&S File No.:	

Drawing Title:

CROSS SECTIONS

Sheet Number:

C615



D:\sw603\local\WSE\Projects\CTNew Britain CT\ENG23-2639-Overlook_Ave_Drainage_Design\CAD\OVERLOOK_XSC.dwg

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:
PCC05581BASED ON f'_c = 5000 PSI
REINFORCEMENT (ASTM A615 GRADE 60)..... f_y = 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:

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.

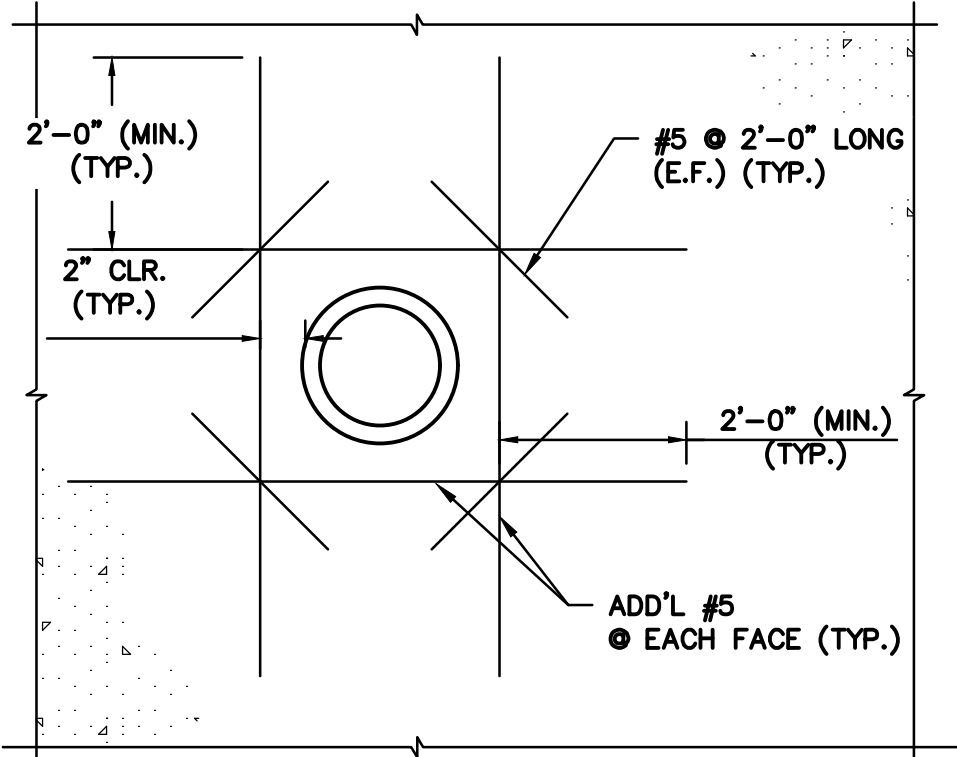
CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE TWO INCHES COVER UNLESS DIMENSIONED OTHERWISE.

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"

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


NEW BRITAIN, CT 06053

Weston & Sampson

Weston & Sampson Engineers, Inc.
712 Brook Street
Rocky Hill, CT 06067
978.532.1900 800.SAMPSON
www.westonandsampson.com

Consultants:

Revisions:		
No.	Date	Description

COA:
COPYRIGHT © 2023 BY WESTON & SAMPSON
THIS DRAWING HAS BEEN PREPARED FOR THE
EXCLUSIVE USE OF THE CLIENT & PROJECT NAME
LISTED ON THIS DRAWING ONLY.

REPRODUCTION, RELEASE OF UTILIZATION OF THE
DRAWING CONTENT BY OTHER CLIENTS / FIRMS AND
ON OTHER PROJECTS IS PROHIBITED BY LAW.

WESTON & SAMPSON RETAINS THE EXCLUSIVE USE
OF THE INTELLECTUAL PROPERTY CONTAINED
HEREIN.

Seal:

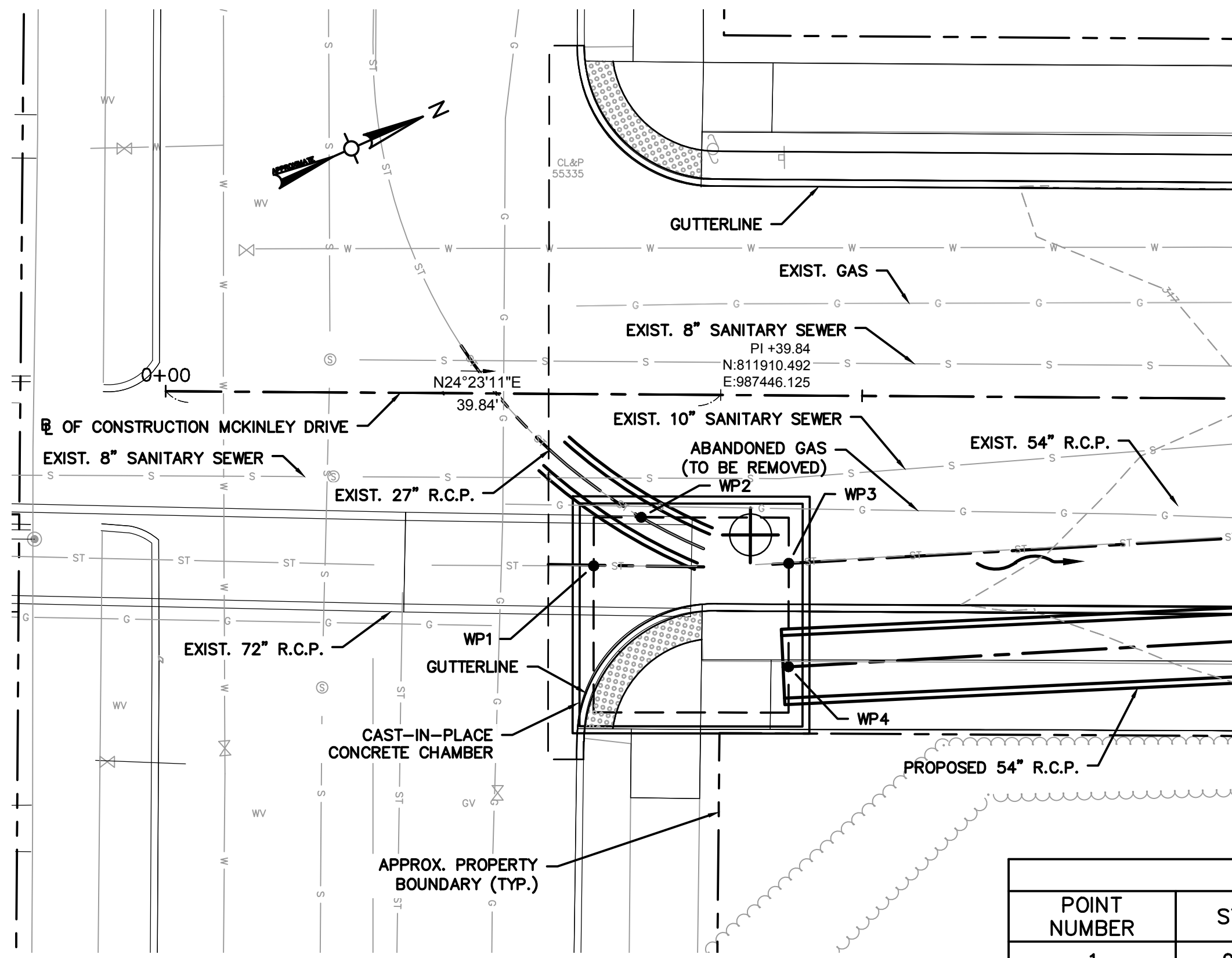
Issued For:

Scale: AS NOTED

Date: 07/03/2024
Drawn By: MMM
Reviewed By: PJG
Approved By: RSV
W&S Project No.: ENG23-2939
W&S File No.:

Drawing Title:
STRUCTURAL GENERAL
NOTES

Sheet Number:
S100

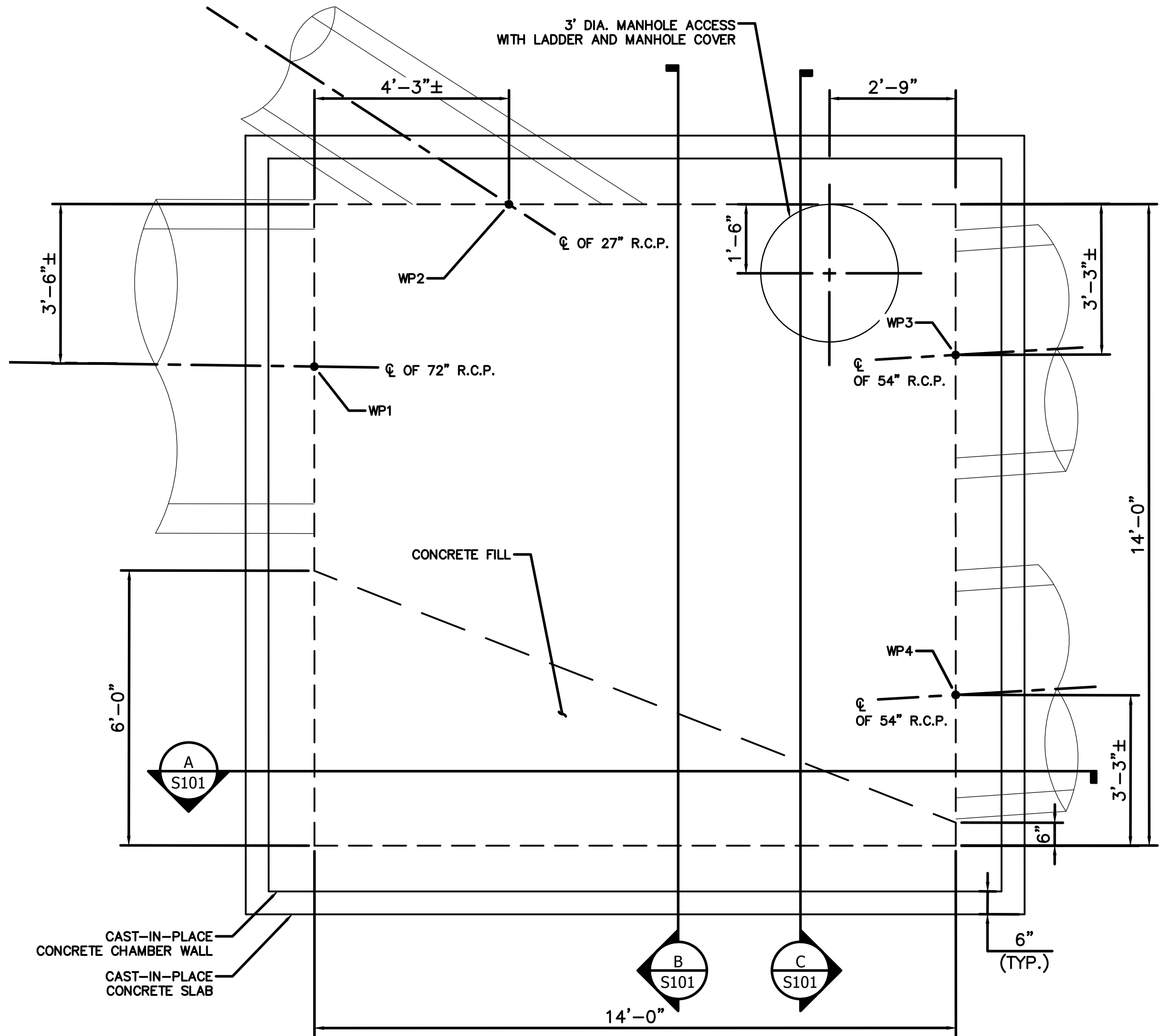


NOTE:
THE CONTRACTOR SHALL PROTECT AND MAINTAIN THE EXISTING OVERHEAD UTILITIES DURING THE CONSTRUCTION OF STRUCTURE CHAMBER 1 AND ANY RELATED TEMPORARY EARTH RETAINING SYSTEMS AND INSTALLATION EQUIPMENT.

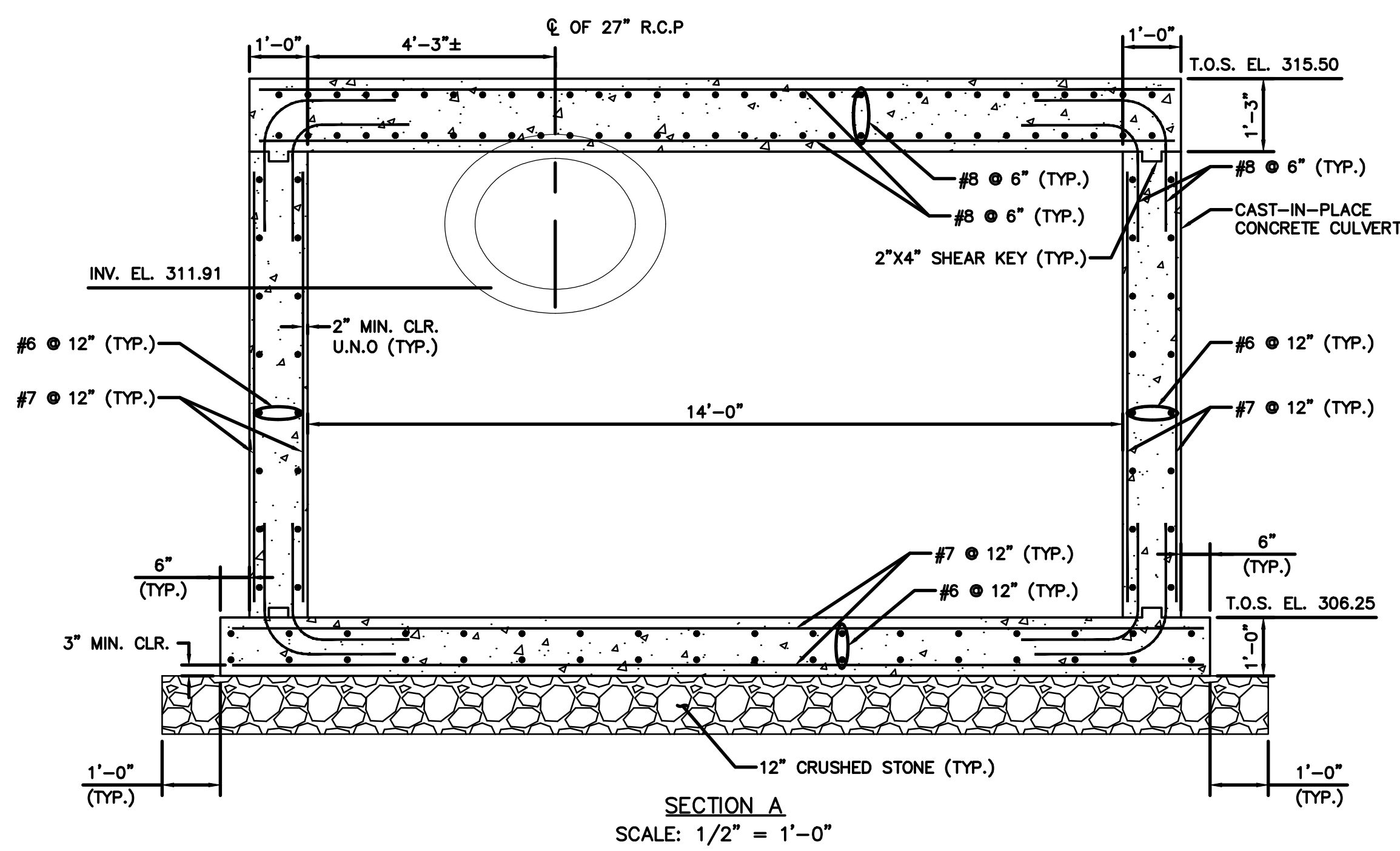
STRUCTURE 1 KEY PLAN
SCALE: 1" = 8'-0"

WORKING POINTS				
POINT NUMBER	STATION	OFFSET	NORTH COORDINATE	EAST COORDINATE
1	0+30.81	12.28' RT	811897.1725	987453.6228
2	0+34.20	8.82' RT	811901.7107	987451.8331
3	0+44.81	12.06' RT	811910.0338	987459.1567
4	0+44.81	19.48' RT	811907.0060	987465.9348

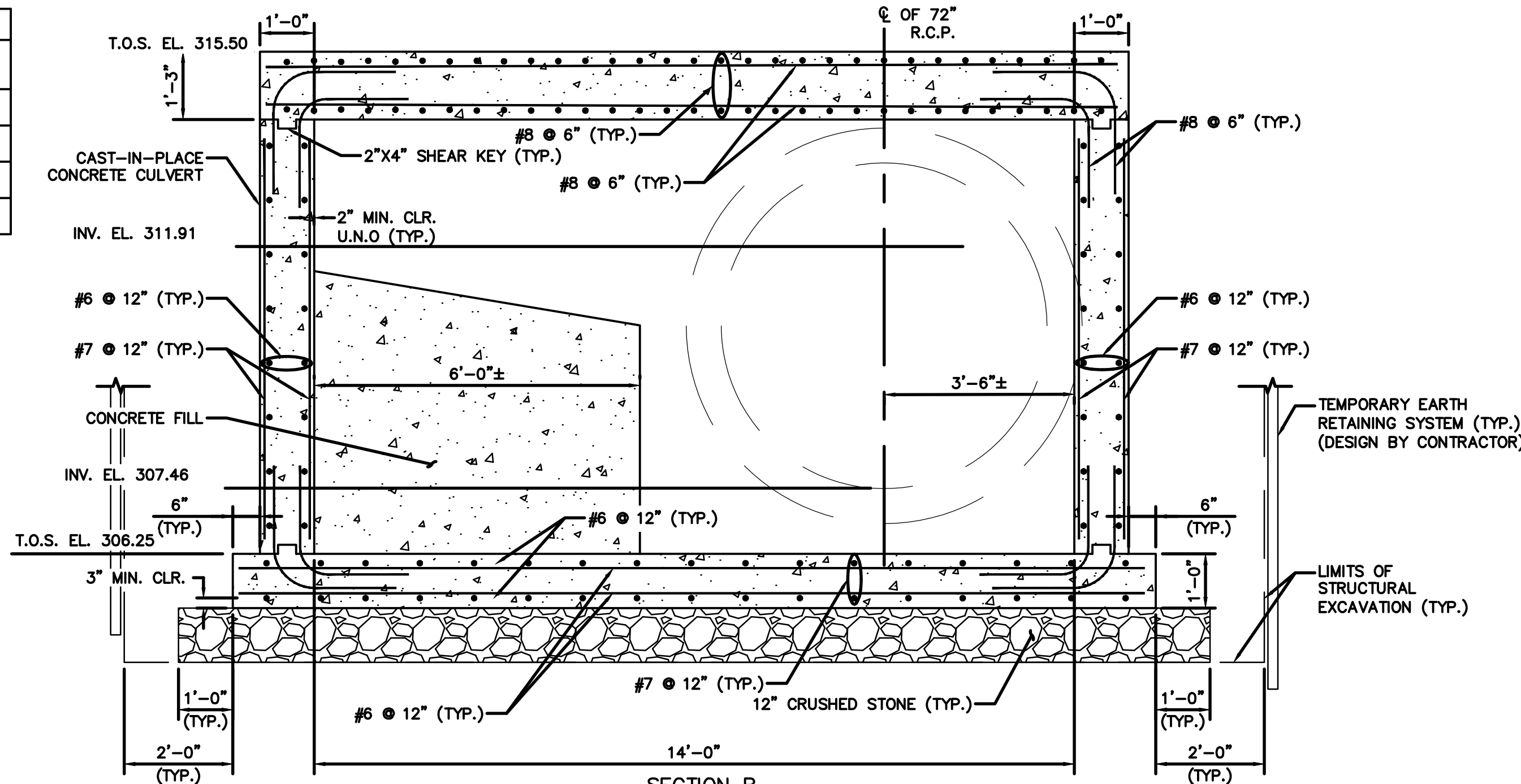
TABLE OF QUANTITIES - STRUCTURE 1		
ITEM	UNIT	QUANTITY
STRUCTURAL EXCAVATION - EARTH COMPLETE	C.Y.	220
PERVIOUS STRUCTURE BACKFILL	C.Y.	60
STRUCTURAL REPAIR CONCRETE (CLASS PCC 05581)	C.Y.	50
DEFORMED STEEL BARS - EPOXY COATED	C.Y.	8310
MEMBRANE WATERPROOFING - COLD LIQUID ELASTOMERIC	C.Y.	50
TEMPORARY EARTH RETAINING SYSTEM	EA.	930
NO. 6 CRUSHED STONE	C.Y.	20



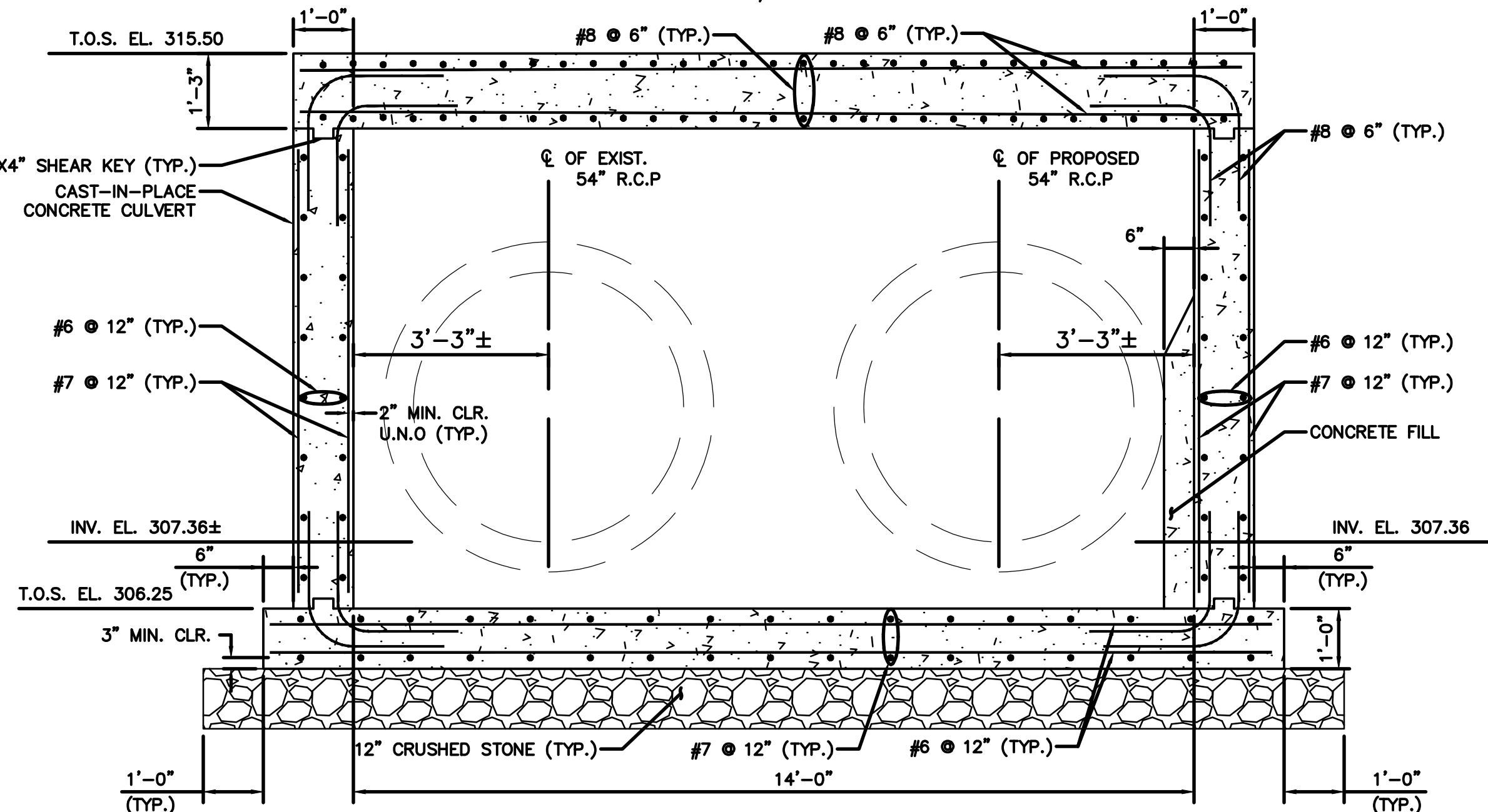
PLAN
SCALE: 1/2" = 1'-0"



SECTION A
SCALE: 1/2" = 1'-0"



SECTION B
SCALE: 1/2" = 1'-0"



SECTION C
SCALE: 1/2" = 1'-0"

Consultants:

Revisions:		
No.	Date	Description

COA:
COPYRIGHT © 2023 BY WESTON & SAMPSON
THIS DRAWING HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF THE CLIENT & PROJECT NAME LISTED ON THIS DRAWING ONLY.
REPRODUCTION, RELEASE OF UTILIZATION OF THE DRAWING CONTENT BY OTHER CLIENTS / FIRMS AND ON OTHER PROJECTS IS PROHIBITED BY LAW.
WESTON & SAMPSON RETAINS THE EXCLUSIVE USE OF THE INTELLECTUAL PROPERTY CONTAINED HEREIN.

Seal:

Issued For:

Scale: AS NOTED

Date: 07/03/2024
Drawn By: MMM
Reviewed By: PJG
Approved By: RSV

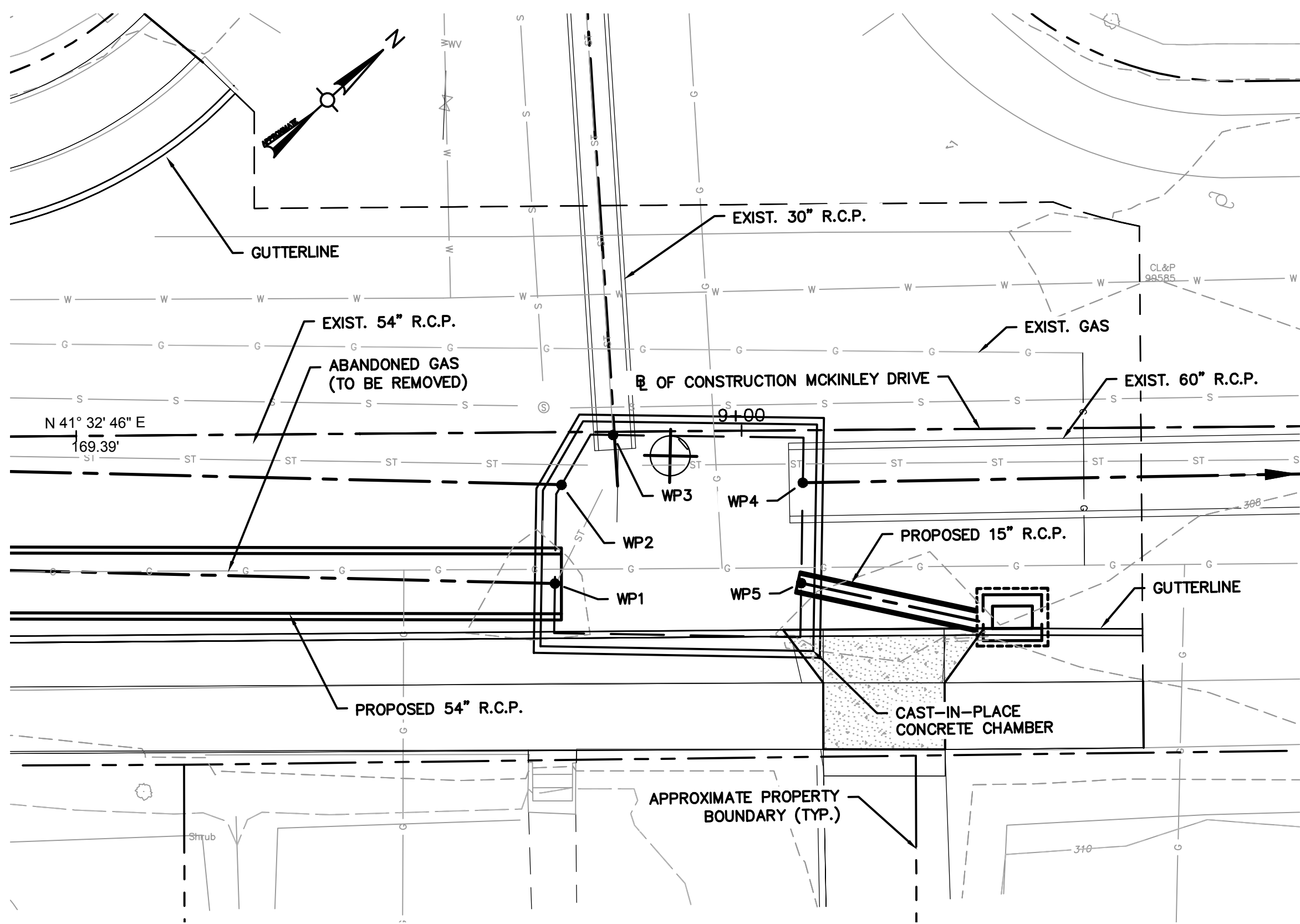
W&S Project No.: ENG23-2939
W&S File No.:

Drawing Title:

**STRUCTURE 1
PLAN AND ELEVATIONS**

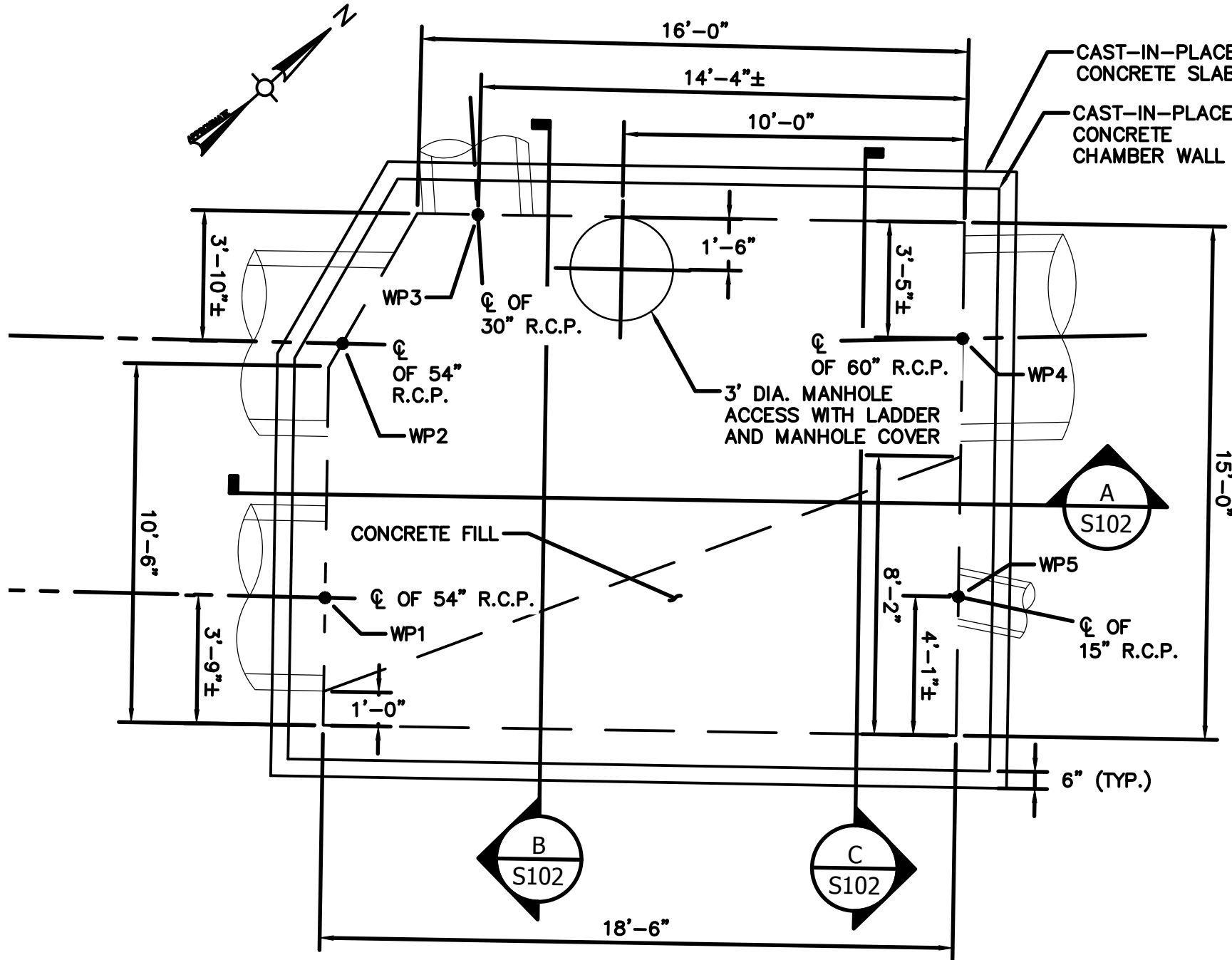
Sheet Number:

S101

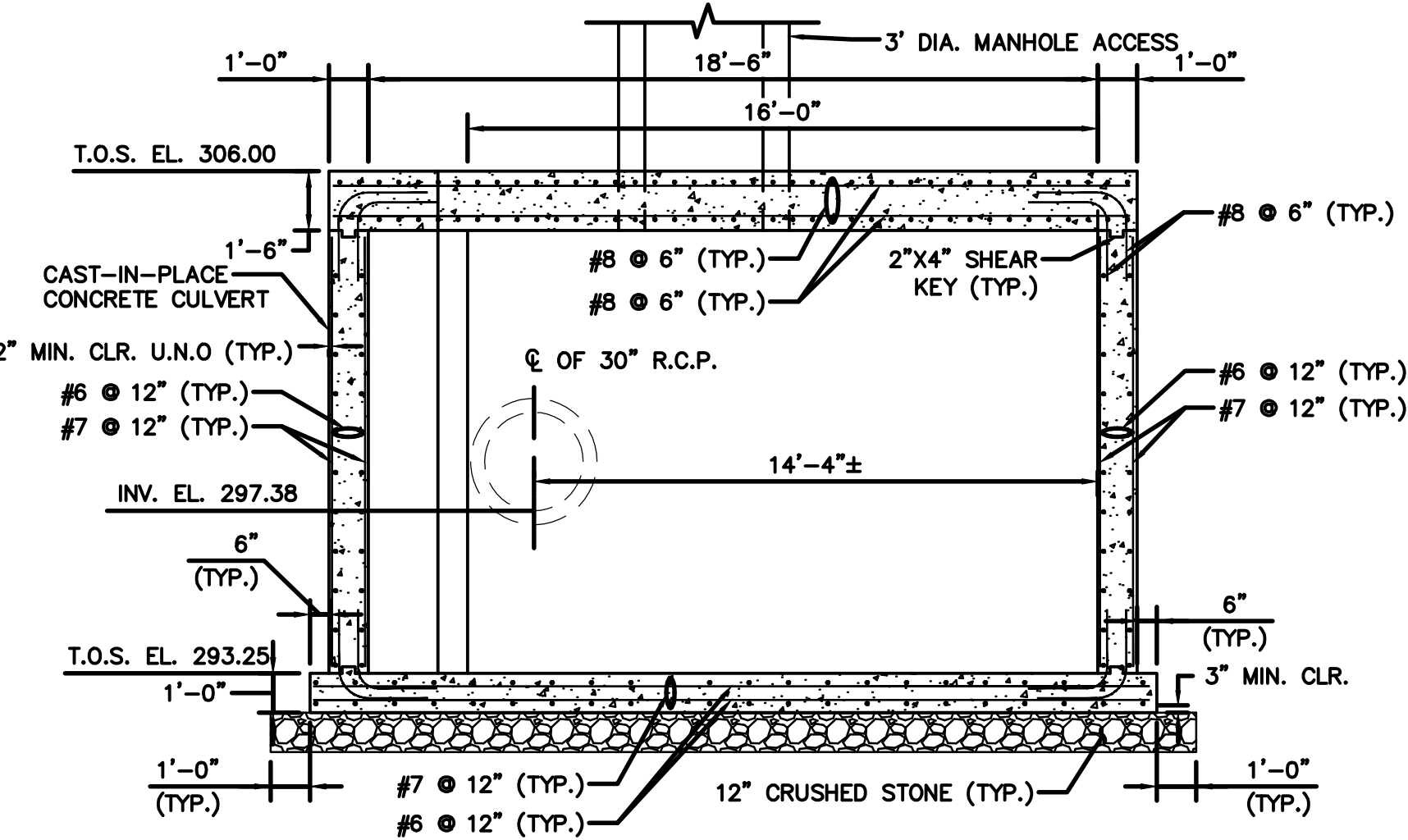


STRUCTURE 2 KEY PLAN
SCALE: 1" = 8'-0"

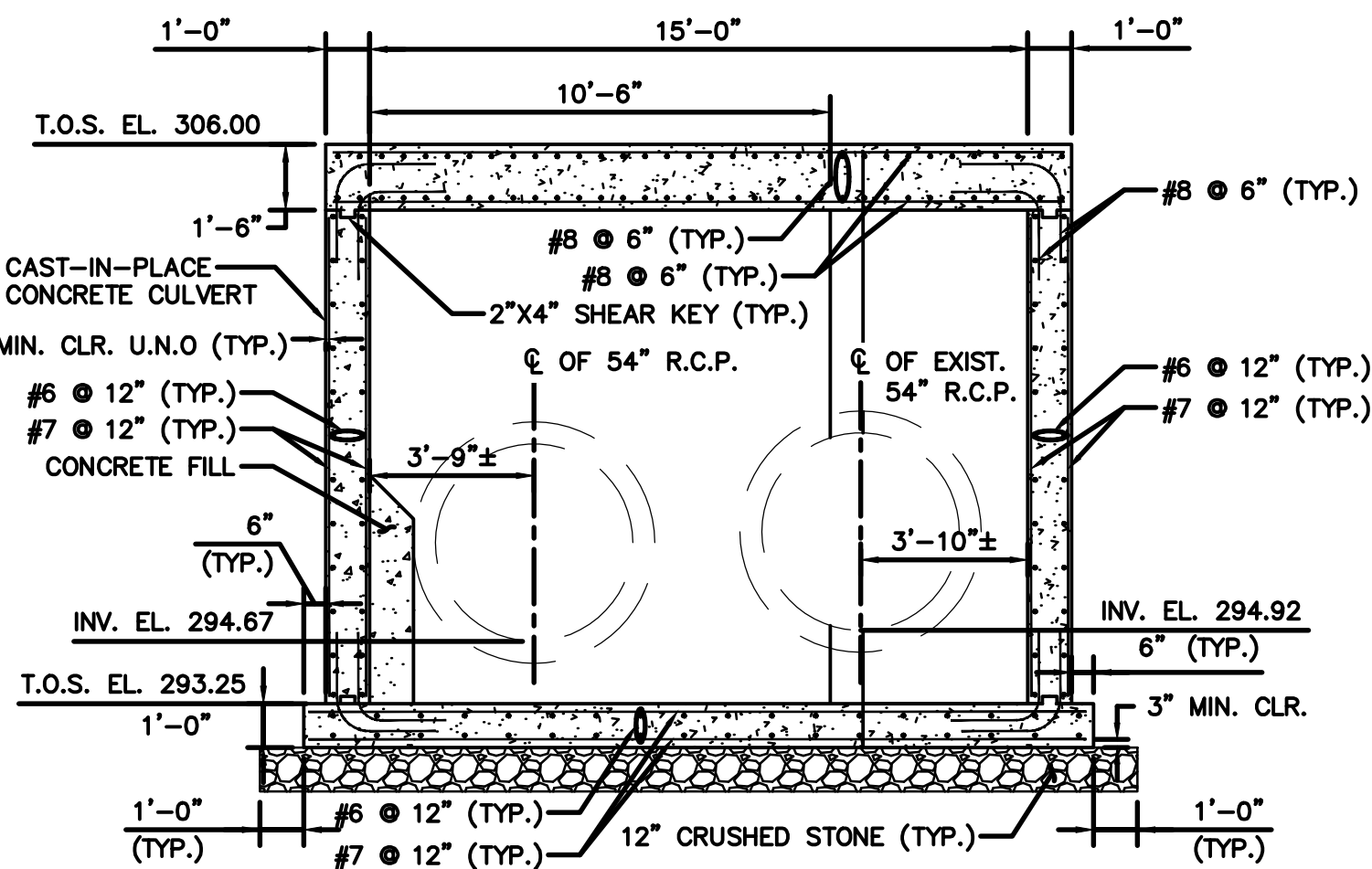
WORKING POINTS				
POINT NUMBER	STATION	OFFSET	NORTH COORDINATE	EAST COORDINATE
1	8+85.80	11.38' RT	812554.2388	987983.1107
2	8+86.43	4.00' RT	812559.5717	987977.9377
3	8+90.33	0.25' RT	812564.9652	987977.7427
4	9+04.57	3.95' RT	812573.1577	987989.9519
5	9+04.39	11.49' RT	812568.0173	987995.4763



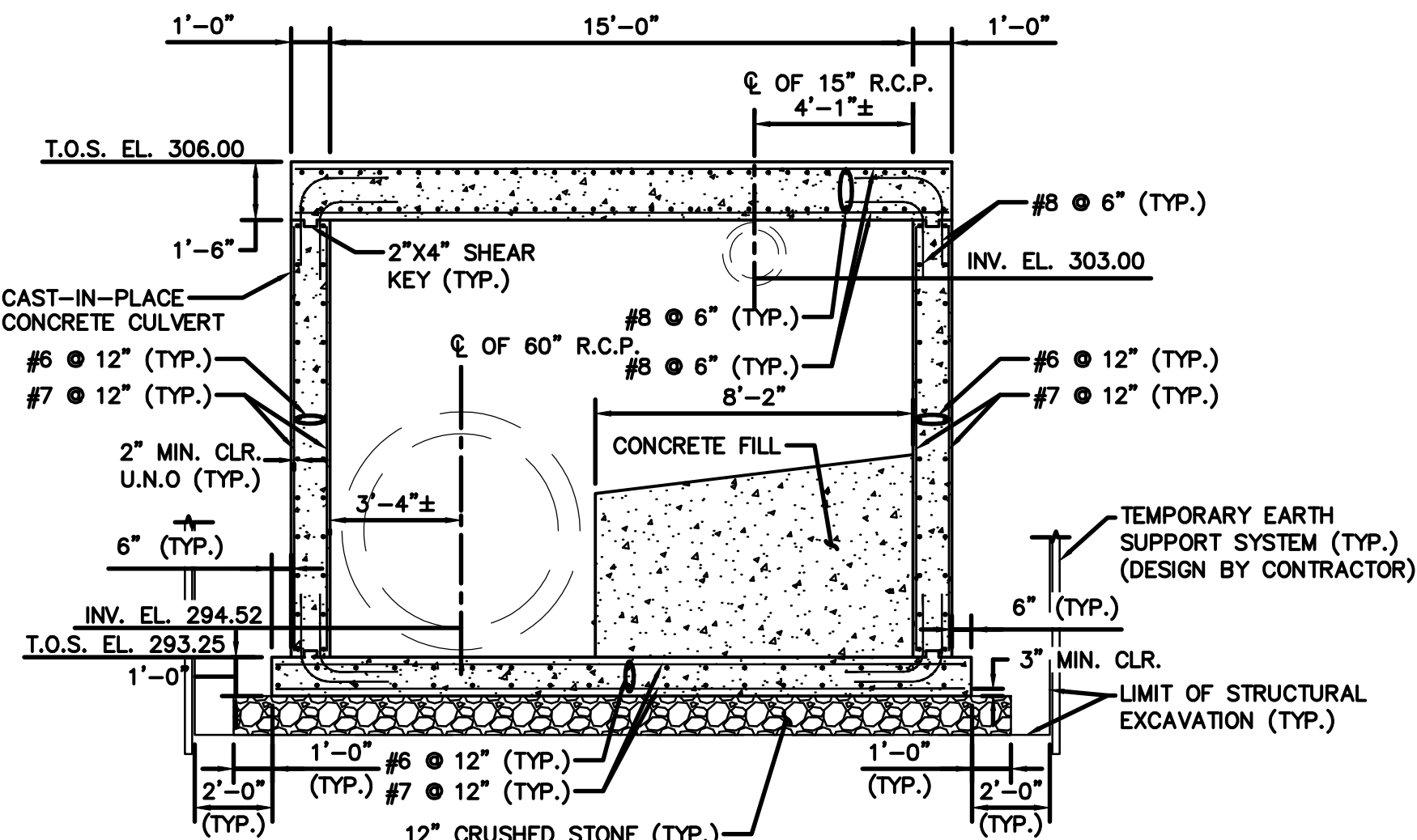
PLAN
SCALE: 1/4" = 1'-0"



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



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



SECTION C
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

Consultants:

Revisions:

No.	Date	Description

COA:

COPYRIGHT © 2023 BY WESTON & SAMPSON
THIS DRAWING HAS BEEN PREPARED FOR THE
EXCLUSIVE USE OF THE CLIENT & PROJECT NAME
LISTED ON THIS DRAWING ONLY.
REPRODUCTION, RELEASE OF UTILIZATION OF THE
DRAWING CONTENT BY OTHER CLIENTS / FIRMS AND
ON OTHER PROJECTS IS PROHIBITED BY LAW.
WESTON & SAMPSON RETAINS THE EXCLUSIVE USE
OF THE INTELLECTUAL PROPERTY CONTAINED
HEREIN.

Seal:

Issued For:

Scale: AS NOTED

Date: 07/03/2024

Drawn By: MMM

Reviewed By: PJG

Approved By: RSV

W&S Project No.: ENG23-2939

W&S File No.:

Drawing Title:

STRUCTURE 2
PLAN AND ELEVATIONS

Sheet Number:

S102