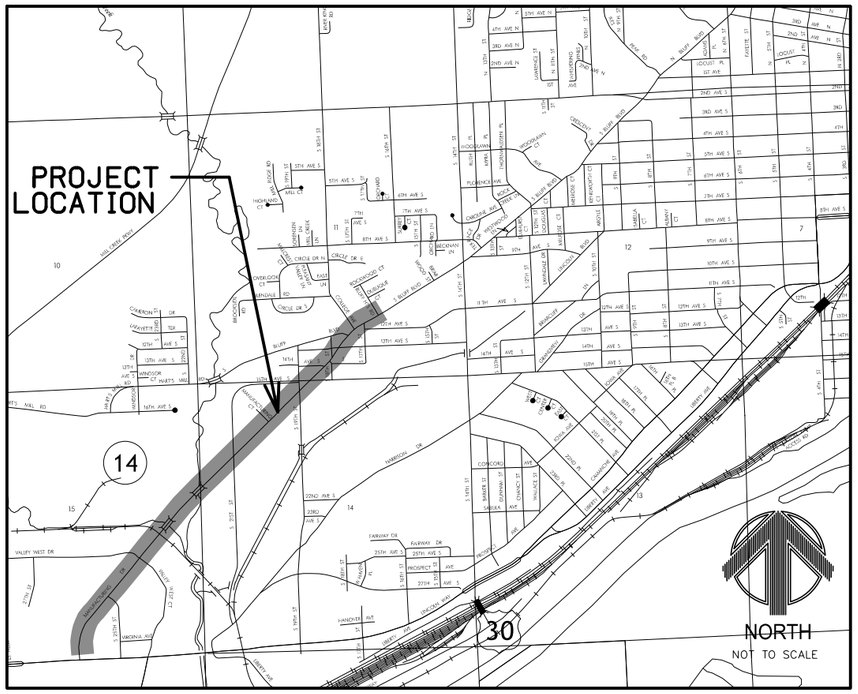
ROAD CONSTRUCTION
PROJECT-30618011

LETTING DATE
NOVEMBER 2, 2021

CLINTON, IOWA

ROAD CONSTRUCTION
MANUFACTURING DRIVE
US 30 TO COLLEGE AVENUE
CITY OF CLINTON, IOWA

	TOTAL
	x
PROJECT IDENTIFICATION NUMBER	
STBG-SWAP-1415(634)--SG-23	
CLINTON PROJECT NUMBER	
NA	
MCCLURE PROJECT NUMBER	
30618011	



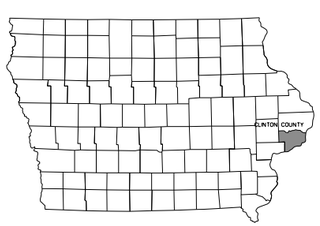
The 2021 edition of the Iowa Statewide Urban Standard Specifications for Public Improvements. The most recent edition of the Iowa Statewide Urban Specifications shall apply to all work on this project except as modified herein.

McClure Engineering Co. is responsible for construction staking on this project. Contractor shall be responsible for restaking and/or lost or torn out staking.

WELCOME TO IOWA
CLINTON
ON THE MISSISSIPPI

INDEX OF SHEETS

NO.	DESCRIPTION
A.1	TITLE SHEET
A.2	GENERAL LEGEND
B.1-B.6	TYPICAL SECTIONS AND DETAILS
B.7	SPECIAL DETAIL SHEET
C.1-C.20	ESTIMATE OF QUANTITIES
D.1-D.16	MANUFACTURING DRIVE PLAN AND PROFILE
E.1-E.19	SIDE STREET PLANS AND PROFILES
G.1-G.10	REFERENCE TIES, BENCHMARKS, AND ALIGNMENTS
H.1-H.22	RIGHT-OF-WAY SHEETS
J.1	STAGING NOTES
J.2-J.16	PAVEMENT MARKINGS
K.1-K.5	ROUNDABOUT PLAN AND PROFILE SHEETS
L.1-L.60	GEOMETRICS, STAKING AND JOINTING DETAILS
M.1-M.33	STORM SEWER PLAN AND PROFILES
N.1-N.10	TRAFFIC SIGNAL PLANS
MSA.1-MSA.4	SANITARY SEWER PLAN AND PROFILES
P.1-P.15	STREETLIGHT LAYOUT SHEETS
RC.1-RC.5	POLLUTION PREVENTION PLAN SHEETS
RR.1-RR.21	EROSION CONTROL SHEETS
S.1-S.21	SIDEWALK PLANS SHEETS
SPS.1-SPS.4	SOIL PROFILE SHEETS
T.1-T.13	EARTHWORK QUANTITIES
Q.1-Q.10	SOIL BORING SHEETS
U.1-U.11	LANDSCAPING PLANS
W.1-W.47	MANUFACTURING DRIVE CROSS SECTIONS
X.1-X.54	SIDE ROAD CROSS SECTIONS



IOWA STATE MAP
NOT TO SCALE

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www.iowaonecall.com
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LICENSED PROFESSIONAL ENGINEER
BRIAN SANDBERG
21130
IOWA

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

BRIAN SANDBERG, P.E. NO. 21130 DATE:

MY LICENSE RENEWAL DATE IS DECEMBER 31, 2021

PAGES OR SHEETS COVERED BY THIS SEAL:

ALL SHEETS EXCEPT N.1-N.10, Q.1-Q.11, SPS.1, AND V.1

HYDRAULIC DESIGN ONLY ON V.2

CHECK PLANS

MEC# 30618011 - MANUFACTURING DRIVE ROAD CONSTRUCTION

McCLURE ENGINEERING COMPANY

MAY 5, 2020

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER A.1	REVISED

P:\Projects\30618011-000-Drawings\Civil\DGNS

SURVEY SYMBOLS

- Interstate Highway Symbol
- U.S. Highway Symbol
- Iowa Highway Symbol
- County Road Highway Symbol
- Evergreen Tree
- Deciduous Tree
- SB — Shrub (Bushes)
- Stump
- Broken Concrete
- Revetment (Rip Rap)
- Edge of Water
- Existing Drainage
- Existing Intake
- Proposed Intake
- ST — Existing Utility Access (Manhole)
- Proposed Utility Access (Manhole)
- SP — Existing Stand Pipe
- S — Existing Utility Access (Manhole)
- JB — Electric Junction Box
- RR — Railroad Sign
- Signal Cabinet
- Billboard pole
- FP — Flag Pole
- Luminaire
- Traffic Signal
- Traffic Signal with Luminaire
- T — Communication Manhole
- Cable Marker
- Fiber Optic Marker
- CB — Communication Box
- Power Pole
- Power Pole with Street Light
- Satellite TV Dish
- GV — Gas Valve
- GM — Gas Meter
- Gas Marker
- WV — Water Valve
- Hydrant
- Curb Stop
- Valve Manhole
- Sign
- TCB — Traffic Signal Control Box
- RRB — Rail Road Signal Control Box
- TH — Communication Handhole
- Communication Pedestal
- EH — Electric Handhole
- Electric Pedestal
- EM — Electric Meter
- MB — Mailbox
- W(B) — Existing Water Line
- SS — Existing Sanitary Sewer Line
- FO(B) — Existing Fiber Optics Telephone Line
- ST — Existing Storm Sewer Line
- G(B) — Existing Gas Line
- E(B) — Existing Power Line
- OHE(B) — Existing Power Line
- OHE(D) — Existing Power Line
- CA(B) — Cable Television Line
- C(B) — Cable Television Line
- O — Chainlink Fence
- Guardrail
- Wood Fence

CITY OF CLINTON (OWNER)
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Contact Email: icnoutsideplantiowaonecall.gov

PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design Color No.	
Green	(2)	Existing Topographic Features and Labels
Blue	(1)	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Magenta	(5)	Existing Utilities
SHADING	**Design Color No.**	
Yellow	(4)	Highlight for Critical Notes or Features
Red	(3)	Delineates Restricted Areas
Lavender	(9)	Temporary Pavement Shading
Gray, Light	(48)	Proposed Pavement Shading
Gray, Med	(80)	Proposed Granular Shading
Gray, Dark	(112)	Proposed Grade and Pave Shading "In conjunction with a paving project"
Brown, Light	(236)	Grading Shading
Tan	(8)	Proposed Sidewalk Shading
Blue, Light	(230)	Proposed Sidewalk Landing Shading
Pink	(11)	Proposed Sidewalk Ramp Shading

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design Color No.	
Green	(2)	Existing Ground Line Profile
Blue	(1)	Proposed Profile and Annotation
Magenta	(5)	Existing Utilities
Blue, Light	(230)	Proposed Ditch Grades, Left
Black	(0)	Proposed Ditch Grades, Median
Rust	(14)	Proposed Ditch Grades, Right

- Reference Point — Survey Line
- Station — Section Corner
- Ground Line Intercept
- Saw Cut
- Guardrail
- Trench Drain
- HighTension Cable Guardrail
- Sheet Pile
- Pavement Removal
- Clearing & Grubbing Area

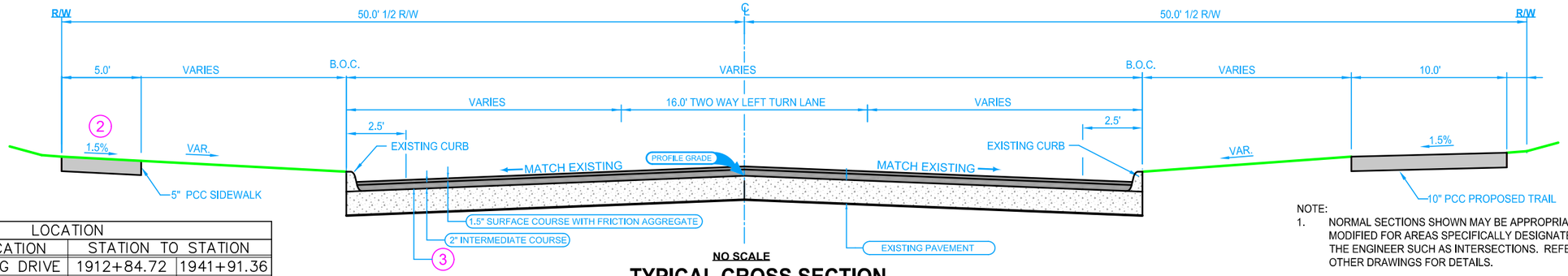
RIGHT-OF-WAY LEGEND

- Proposed Right-of-Way
- Existing Right of Way
- Existing and Proposed Right-of-Way
- Easement and Existing Right-of-Way
- Easement (Temporary)
- Easement
- C/A — Access Control
- Property Line

EXISTING UTILITIES NOTE

THESE EXISTING UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS AND THEREFORE MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGING THEM. NO CLAIMS WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK. PAYMENT WILL BE ALLOWED FOR UNCHARTED UTILITIES PER THE SPECIFICATIONS.

GENERAL LEGEND

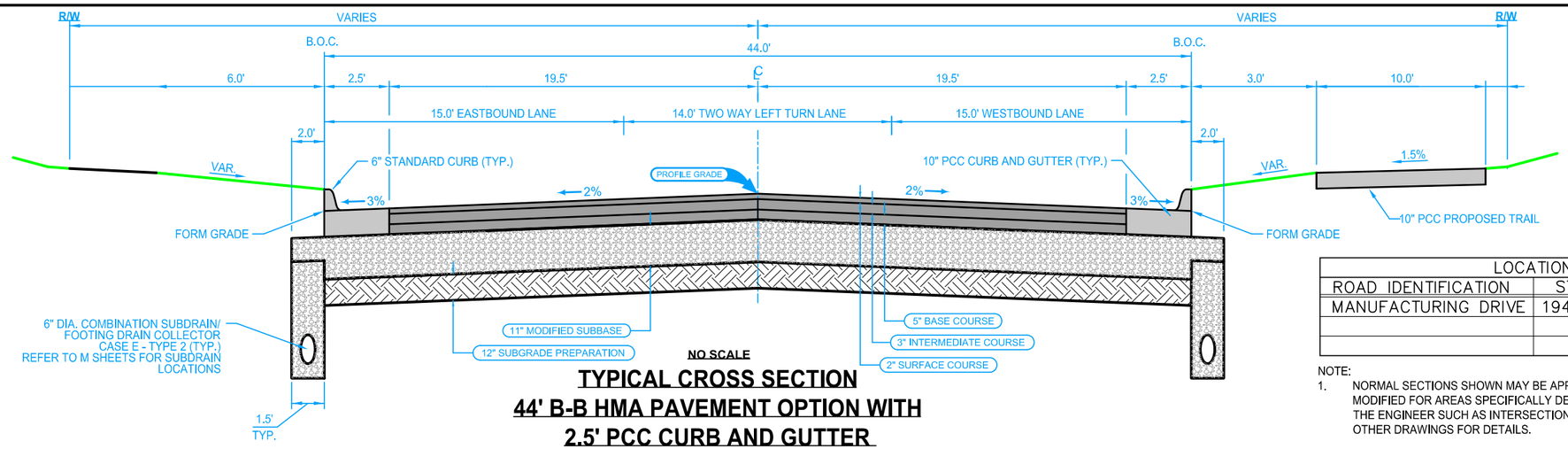


LOCATION		
ROAD IDENTIFICATION	STATION TO STATION	
MANUFACTURING DRIVE	1912+84.72	1941+91.36

NO SCALE

TYPICAL CROSS SECTION
HMA OVERLAY WITH EXISTING CURB

NOTE:
1. NORMAL SECTIONS SHOWN MAY BE APPROPRIATELY MODIFIED FOR AREAS SPECIFICALLY DESIGNATED BY THE ENGINEER SUCH AS INTERSECTIONS. REFER TO OTHER DRAWINGS FOR DETAILS.
2. BEGIN SIDEWALK AT STATION 1941+02.29.
3. ENGINEERING GRID FROM STATION X.X TO STATION X.X

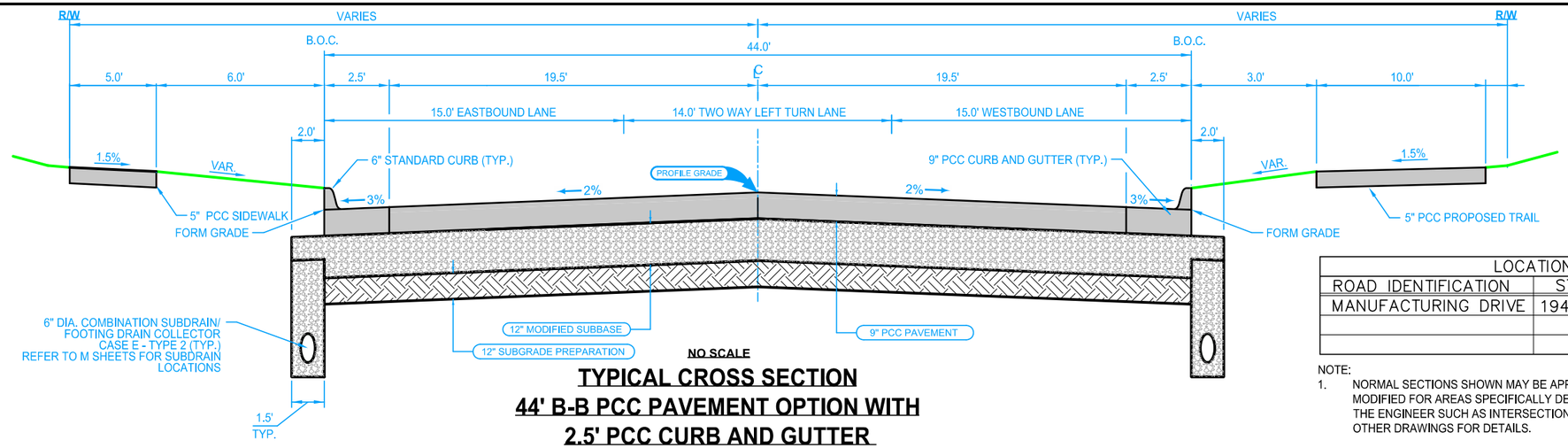


LOCATION		
ROAD IDENTIFICATION	STATION TO STATION	
MANUFACTURING DRIVE	1945+65.99	1999+36.94

NO SCALE

TYPICAL CROSS SECTION
44' B-B HMA PAVEMENT OPTION WITH
2.5' PCC CURB AND GUTTER

NOTE:
1. NORMAL SECTIONS SHOWN MAY BE APPROPRIATELY MODIFIED FOR AREAS SPECIFICALLY DESIGNATED BY THE ENGINEER SUCH AS INTERSECTIONS. REFER TO OTHER DRAWINGS FOR DETAILS.

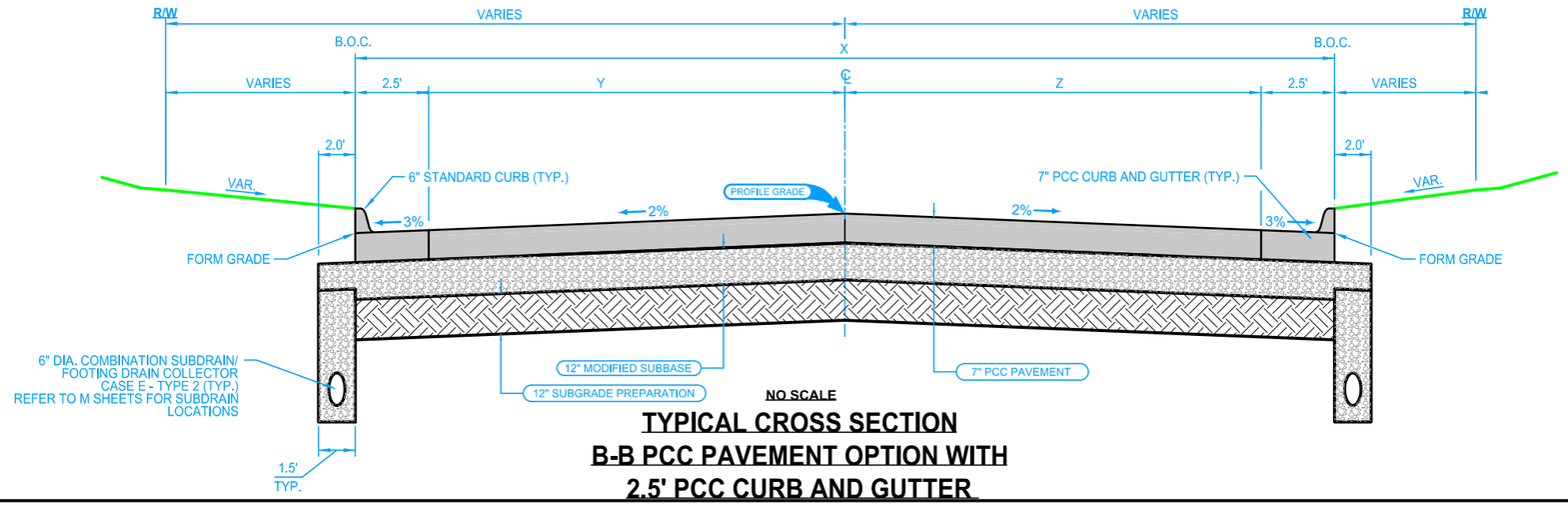


LOCATION		
ROAD IDENTIFICATION	STATION TO STATION	
MANUFACTURING DRIVE	1945+65.99	1999+36.94

NO SCALE

TYPICAL CROSS SECTION
44' B-B PCC PAVEMENT OPTION WITH
2.5' PCC CURB AND GUTTER

NOTE:
1. NORMAL SECTIONS SHOWN MAY BE APPROPRIATELY MODIFIED FOR AREAS SPECIFICALLY DESIGNATED BY THE ENGINEER SUCH AS INTERSECTIONS. REFER TO OTHER DRAWINGS FOR DETAILS.

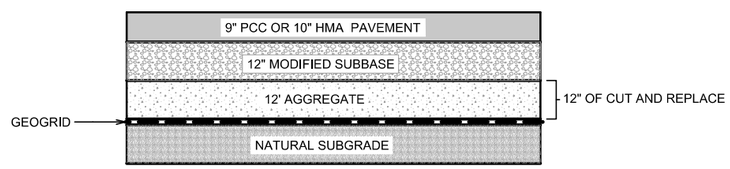


NO SCALE

TYPICAL CROSS SECTION
B-B PCC PAVEMENT OPTION WITH
2.5' PCC CURB AND GUTTER

LOCATION				
ROAD IDENTIFICATION	STATION TO STATION	X	Y	Z
X	X X			

NOTE:
1. NORMAL SECTIONS SHOWN MAY BE APPROPRIATELY MODIFIED FOR AREAS SPECIFICALLY DESIGNATED BY THE ENGINEER SUCH AS INTERSECTIONS. REFER TO OTHER DRAWINGS FOR DETAILS.

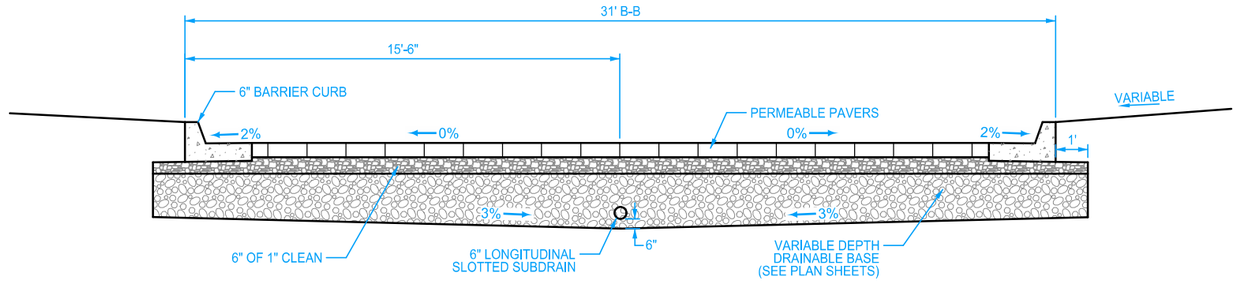


NO SCALE

TYPICAL CROSS SECTION
SUBGRADE OVEREXCAVATION

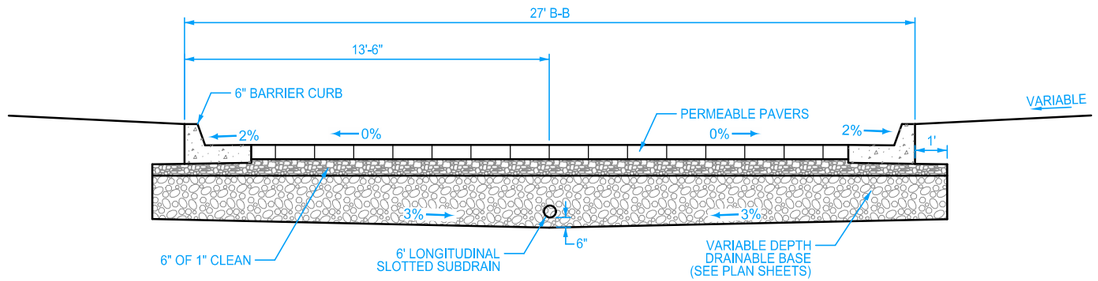
LOCATION	
ROAD IDENTIFICATION	STATION TO STATION
MANUFACTURING DRIVE	1970+00.00 1991+00.00

NOTE:
1. NORMAL SECTIONS SHOWN MAY BE APPROPRIATELY MODIFIED FOR AREAS SPECIFICALLY DESIGNATED BY THE ENGINEER SUCH AS INTERSECTIONS. REFER TO OTHER DRAWINGS FOR DETAILS.



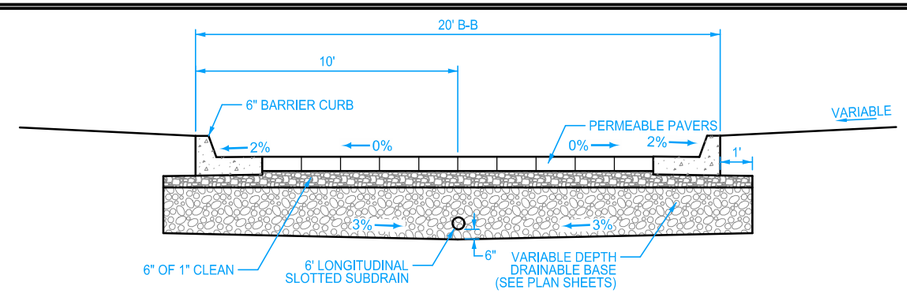
31.0' B-B PAVER TYPICAL SECTION

LOCATION		
ROAD IDENTIFICATION (CHAIN)	STATION TO STATION	
S. BLUFF BLVD (13TH_SE)	700+50.00	704+17.02
13TH AVE. S. (13TH_SE)	705+40.12	709+10.99
S. 18TH ST. (18TH_N)	400+75.43	402+00.45
S. 17TH ST. (17TH)	601+12.74	606+85.34



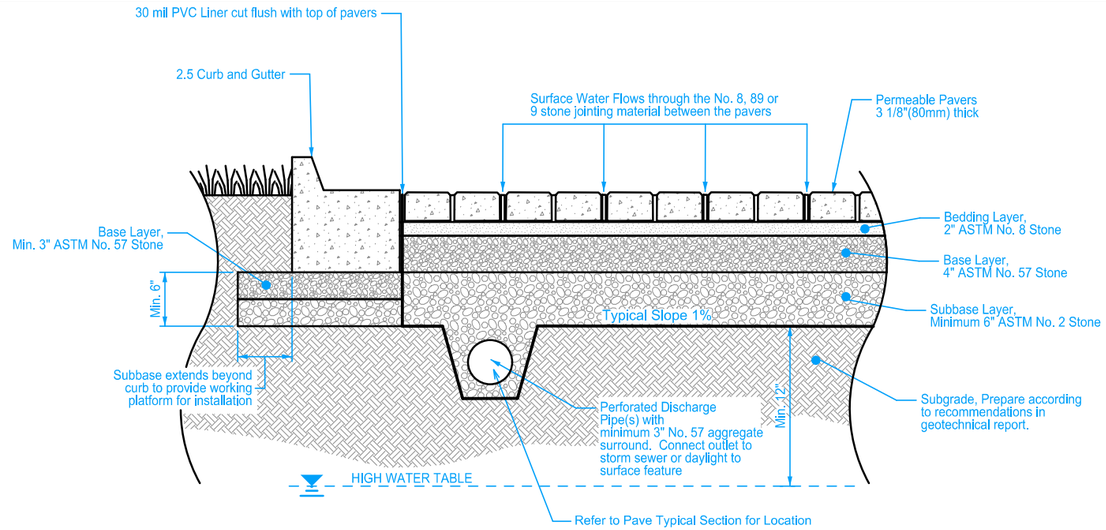
27.0' B-B PAVER TYPICAL SECTION

LOCATION		
ROAD IDENTIFICATION (CHAIN)	STATION TO STATION	
14TH AVE. S. (14TH_SW)	108+89.62	112+71.69
S. 18TH ST. (18TH)	301+00.00	303+45.47
13TH AVE. S. (13TH_SW)	500+49.97	506+26.95



20.0' B-B PAVER TYPICAL SECTION

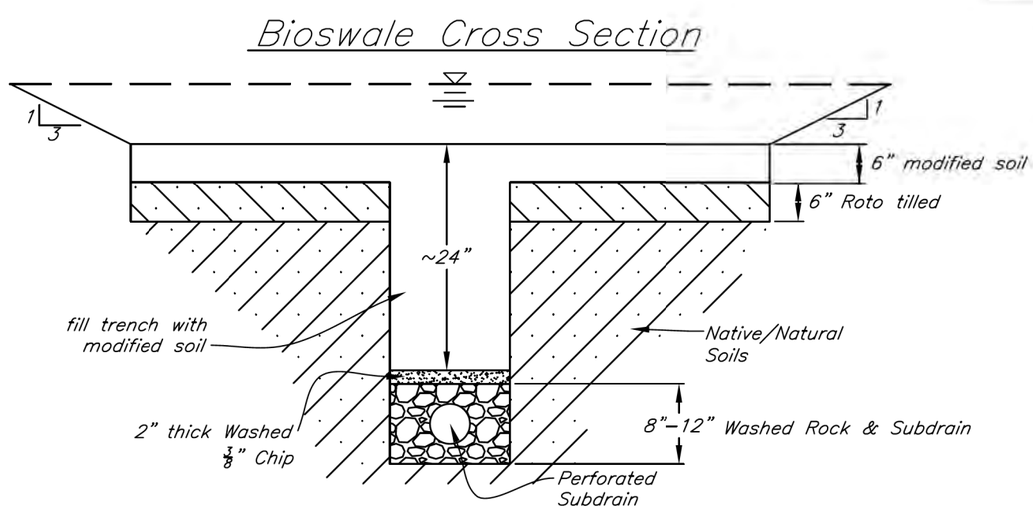
LOCATION		
ROAD IDENTIFICATION (CHAIN)	STATION TO STATION	
14TH AVE. S. (14TH_SW)	100+40.00	107+57.59
ALLEY (ALLEY)	900+54.57	905+02

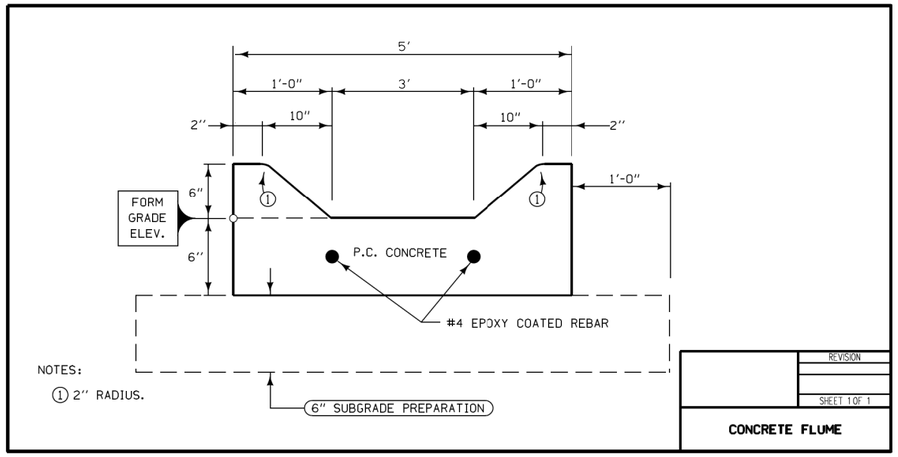


Design Notes:

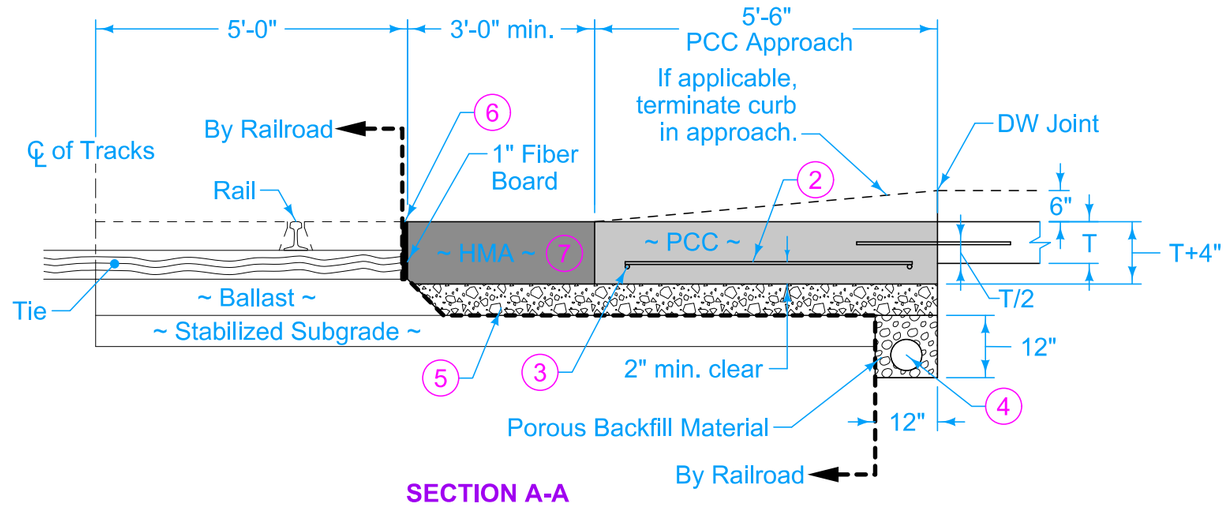
1. Depth of subbase subject to site specific hydraulic and structural requirements. Contact Belgard Commercial for design assistance.
2. Paver dimensions subject to aspect and plan ratio requirements based on traffic loading.
3. The need for a non-woven protective geotextile on top of the liner is subject to site conditions and the recommendations of the Project Engineer and liner manufacturer.
4. ASTM No. 2 stone may be substituted with the No. 3 or No. 4 stone.
5. Strictly pedestrian applications may substitute base/subbase layers with one 6" base layer of ASTM No. 57 stone.

PAVER BASE DETAIL

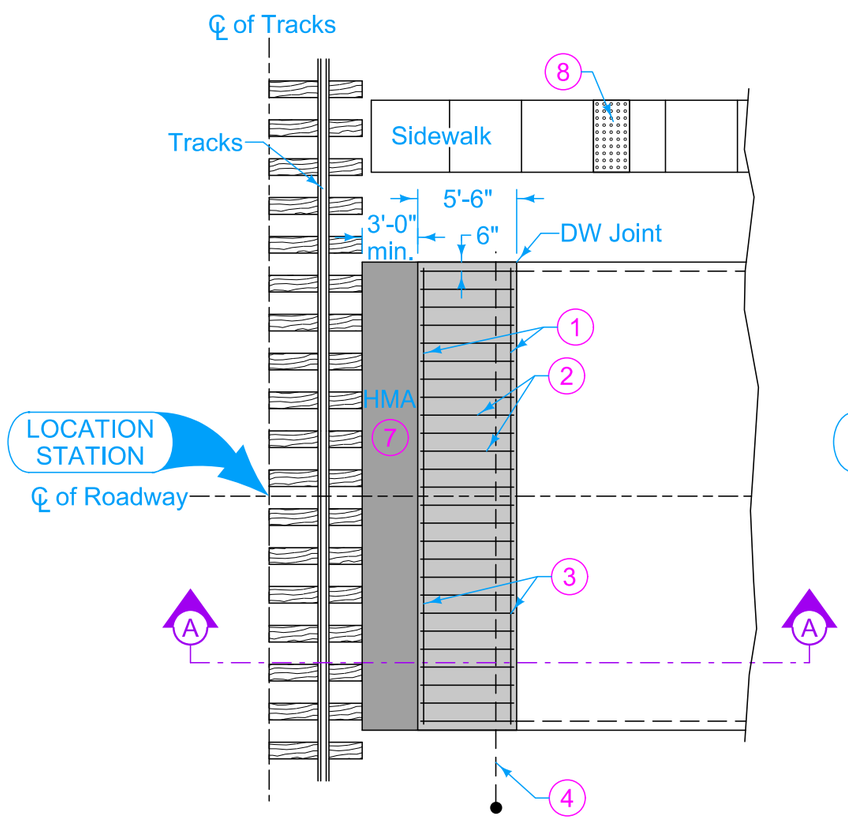




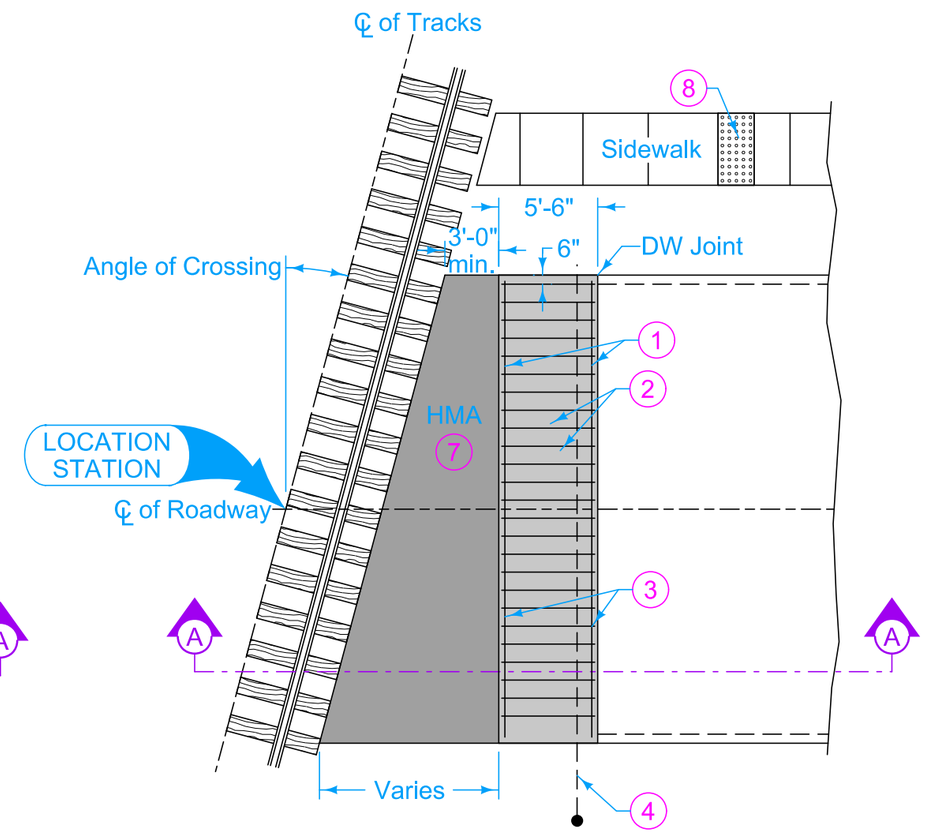
LOCATION				
ROAD IDENTIFICATION	STATION TO STATION	A	B	C
x	x x			



SECTION A-A



PLAN VIEW - STRAIGHT CROSSING



PLAN VIEW - SKEWED CROSSING

1. Tie reinforcing bars with wire at all intersections with other bars. Lap reinforcing bars a minimum of 12 inches when necessary and tie securely.
2. 5 foot 2 inch (typ.) #5 bar or pavement length minus 4 inches, at 12 inches on center.
3. #5 bars X (approach width minus 4 inches).
4. Install 6 inch perforated CMP subdrain, if specified. Include rodent guard per Iowa DOT Materials I.M. 443.01.
5. Granular subbase, modified subbase, or ballast meeting railroad specifications.
6. For new crossings, construct pavement 1/2 inch to 1 inch below top of rail. For existing crossings, construct pavement level to 1/2 inch below top of rail.
7. HMA full depth patch per Section 7040.
8. Refer to Figure 7030.205 for detectable warning location.

REVISION	
2	10-20-15

7010.903

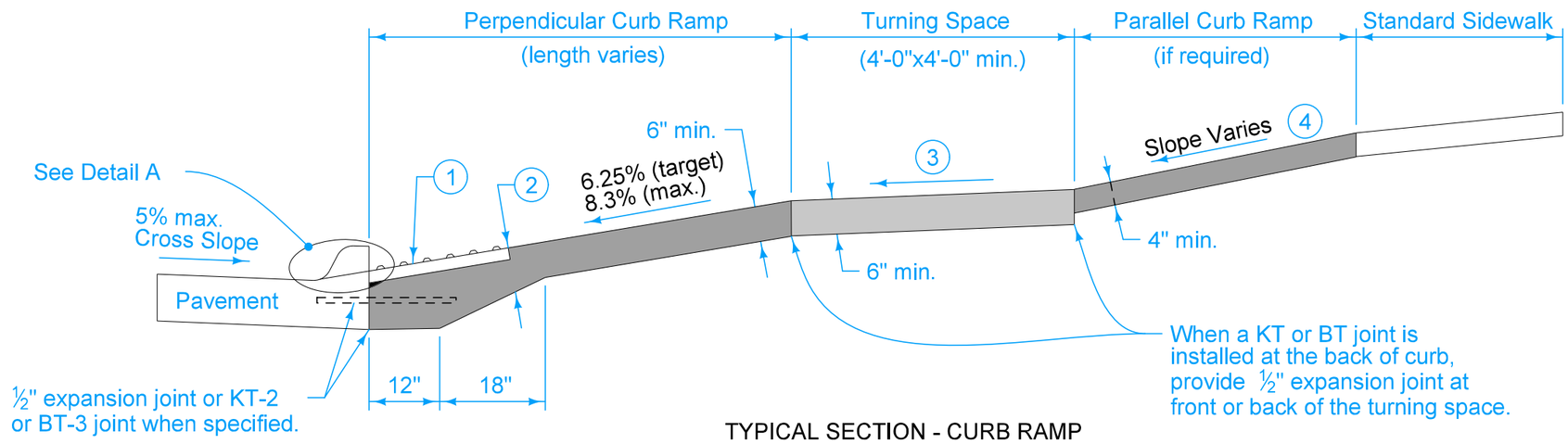
SHEET 1 of 1

PCC RAILROAD CROSSING APPROACH

FIGURE 7010.903 SHEET 1 OF 1

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER B.5	REVISED

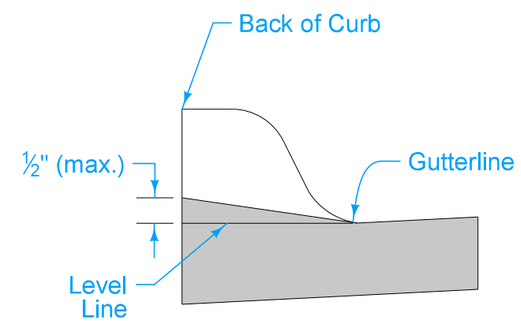
2:05:33 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_B01.dgn



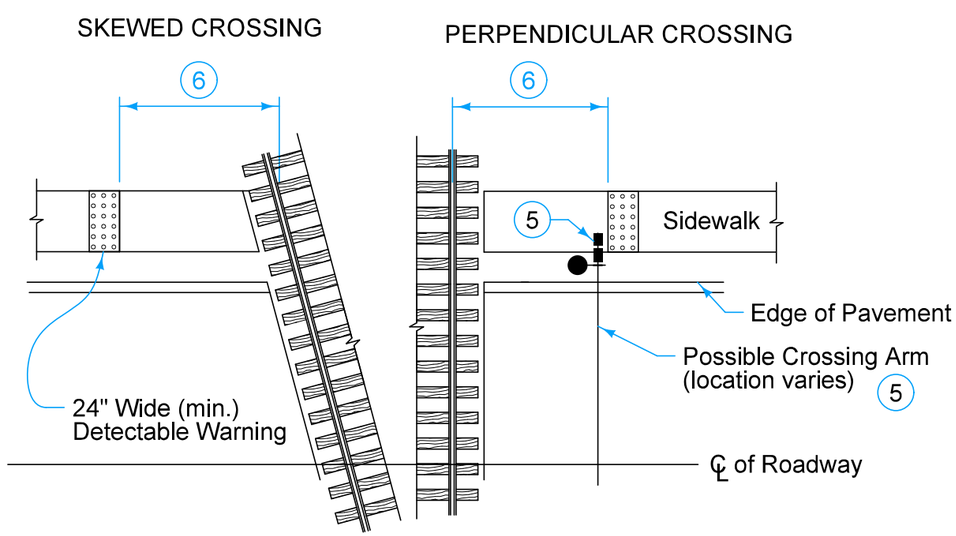
TYPICAL SECTION - CURB RAMP

Key

- Curb Ramp
- Turning Space
- Detectable warning



DETAIL A



DETECTABLE WARNING LOCATION AT RAILROAD CROSSING

1. Provide a minimum 2 foot width of detectable warning surfaces in the direction of pedestrian travel across the full width of the curb ramp or turning space, exclusive of curbs or flares.
2. Provide a minimum of 6 inches of concrete below the detectable warning panel.
3. Minimum 4 feet by 4 feet. Target cross slope of 1.5% with a maximum cross slope of 2.0%.
4. If normal sidewalk elevation cannot be achieved with the perpendicular ramp between the street and landing due to limited ramp length, provide a parallel ramp to make up the elevation difference between the landing and the standard sidewalk.

   The length of the parallel ramp is not required to exceed 15 feet, regardless of the resulting slope. Do not exceed 8.3% slope for parallel ramps shorter than 15 feet.
5. If crossing gate conflicts with location of detectable warning or if pedestrian crossing gate is provided, place detectable warning panel in advance of the crossing gate.
6. Locate front edge of detectable warning panel 12 to 15 feet from centerline of nearest rail. Orient truncated domes parallel to the direction of pedestrian travel.

REVISION	
1	10-20-15

7030.205

SHEET 1 of 1

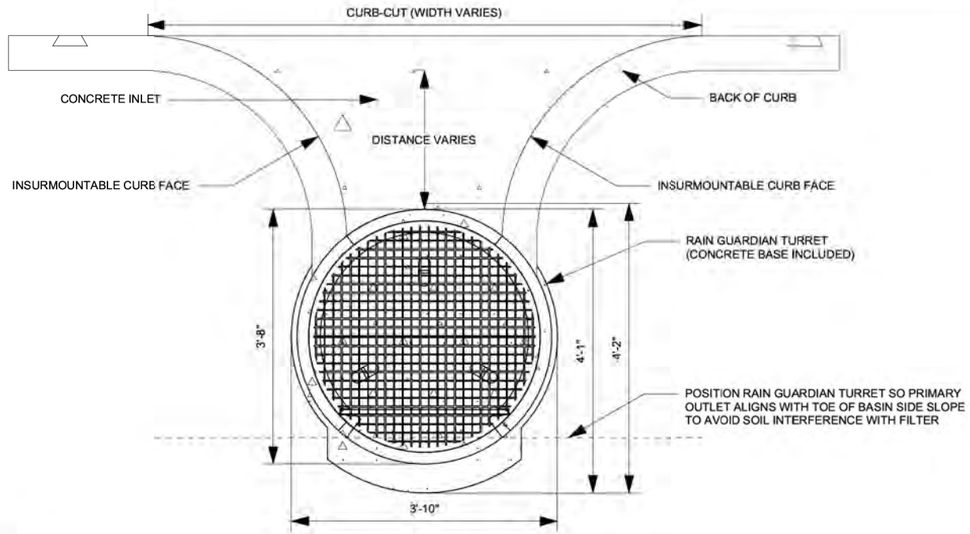
GENERAL SIDEWALK AND CURB RAMP DETAILS

FIGURE 7030.205 | SHEET 1 OF 1

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER B.6	REVISED

2:05:34 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_B01.dgn

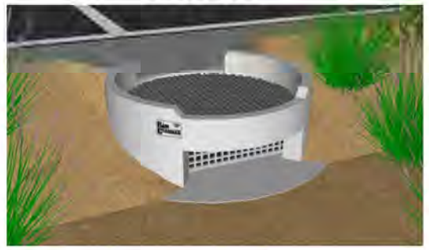
PLAN VIEW



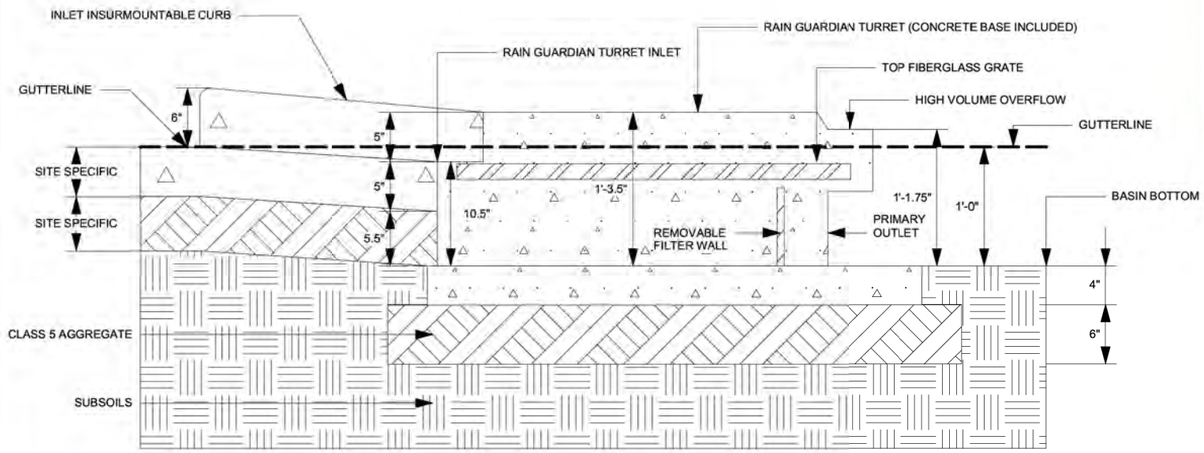
PLAN VIEW NOTES

1. INLET WIDTH AND DISTANCE BETWEEN BACK OF CURB AND RAIN GUARDIAN TURRET MAY VARY WITH SITE CONDITIONS.
2. CONCRETE BASE EXTENDS BEYOND THE FILTER WALL OF THE RAIN GUARDIAN TURRET TO SERVE AS A SPLASH DISSIPATOR.

3D VIEWS



ELEVATION VIEW



CROSS-SECTION VIEW NOTES

1. THE TOP OF THE CLASS 5 BASE (COMPACTED TO 95% STANDARD PROCTOR) IS PRECISELY 1' 4" BELOW THE GUTTERLINE ELEVATION.

SPECIFICATIONS

1. STEEL REINFORCED, COLD JOINT SECURED MONOLITHIC CONCRETE STRUCTURE (1,030 LBS). CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS. CONCRETE AIR ENTRAINED (4% TO 8% BY VOLUME). MANUFACTURED AND DESIGNED TO ASTM C858.
2. THREE-POINT PICK USING RECESSED LIFTING POCKETS WITH A STANDARD HOOK.
3. TWO-PIECE FIBERGLASS TOP GRATE (16 LBS/PIECE, 1-1/2" THICK) - 1,760 LB CONCENTRATED LOAD OR 409 LB/SQ-FT UNIFORM LOAD.

INSTALLATION NOTES

1. INSTALL THE CLASS 5 BASE (COMPACTED TO 95% STANDARD PROCTOR). THE DISTANCE FROM THE BACK OF THE CURB MAY VARY BASED ON SITE CONDITIONS, BUT CONSIDERATIONS SHOULD INCLUDE SLOPE OF THE INLET AND BASIN SIDE SLOPES ADJACENT TO THE RAIN GUARDIAN TURRET. POSITION RAIN GUARDIAN TURRET SO PRIMARY OUTLET ALIGNS WITH TOE OF BASIN SIDE SLOPE TO AVOID SOIL INTERFERENCE WITH REMOVABLE FILTER WALL. EXCAVATE 1' 10" BELOW THE GUTTERLINE ELEVATION (I.E. THE BIORETENTION OVERFLOW ELEVATION) TO ACCOMMODATE THE 1' PONDING DEPTH, 6" CLASS 5 AGGREGATE, AND 4" RAIN GUARDIAN TURRET BASE (INCLUDED). THEREFORE, THE TOP OF THE CLASS 5 COMPACTED BASE IS PRECISELY 1' 4" BELOW THE GUTTERLINE ELEVATION. THE INLET TO THE RAIN GUARDIAN TURRET WILL BE 10-1/2" ABOVE THE TOP OF THE CONCRETE BASE AND 1-1/2" BELOW THE GUTTERLINE ELEVATION TO ACCOMMODATE A SLOPED INLET FROM THE GUTTER TO THE RAIN GUARDIAN TURRET.
2. SET RAIN GUARDIAN TURRET ON THE PREPARED CLASS 5 BASE.
3. INSTALL FRAMING FOR INLET BETWEEN RAIN GUARDIAN TURRET AND BACK OF CURB. TOP ELEVATIONS OF THE FRAMING SHOULD MATCH THE TOP OF THE CURB ON THE STREET SIDE AND THE TOP OF THE RAIN GUARDIAN TURRET ON THE BIORETENTION SIDE.
4. INSTALL EXPANSION/CONTRACTION JOINT MATERIAL OR A SHEET OF POLY TO SERVE AS A BOND BREAK BETWEEN RAIN GUARDIAN TURRET AND CONCRETE INLET BEFORE POURING INLET.
5. SIDE CURBS OF THE POURED INLET MUST HAVE AN INSURMOUNTABLE PROFILE TO PREVENT WATER FLOW FROM OVERTOPPING THE DOWNSTREAM SIDE OF THE INLET.
6. REMOVABLE FILTER WALL SHOULD BE INSTALLED WITH FILTER FABRIC FACING THE RAIN GUARDIAN TURRET INLET.

MANUFACTURED BY: FORTERRA™ Structural & Specialty

RAIN GUARDIAN
U.S. PATENT NO. 8,501,016
PRETREATMENT FOR BIORETENTION
Rain Gardens • Swales • Filtration Basins • Infiltration Basins

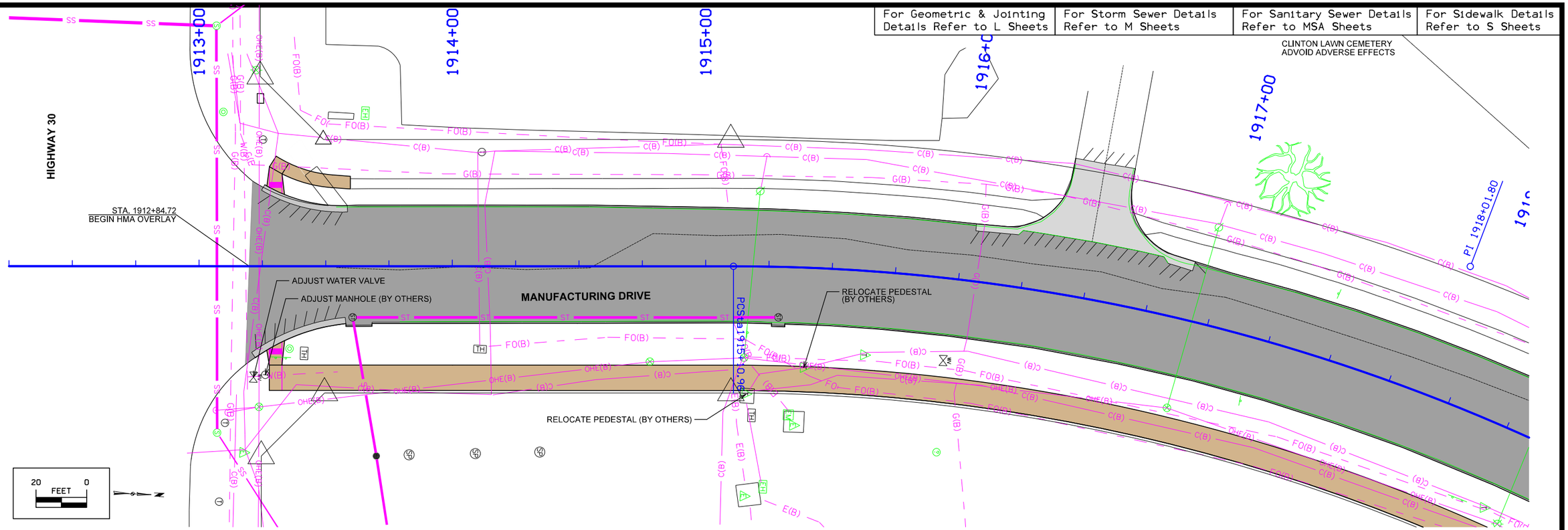
RAIN GUARDIAN TURRET
PRETREATMENT CHAMBER
BIORETENTION PONDING DEPTH: 1'
TYPICAL DETAIL

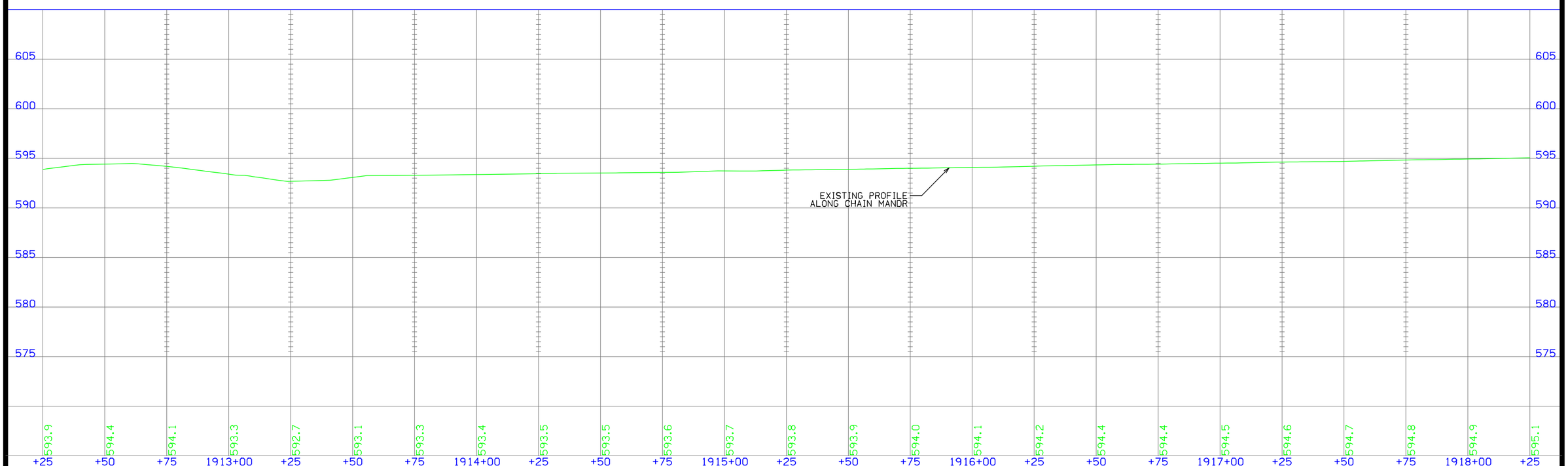
REVISION HISTORY

REV	BY	DATE	DESCRIPTION
A	MDH	08/29/18	TURRET - 1'
SCALE		VARIABLE	
U.S. PATENT NOS.		8,501,016 AND 8,858,804	

ANOKA CONSERVATION DISTRICT
Anoka Conservation District
1318 McKay Dr. NE, Suite 300
Ham Lake, MN 55304
763-434-2030

For Geometric & Jointing Details Refer to L Sheets	For Storm Sewer Details Refer to M Sheets	For Sanitary Sewer Details Refer to MSA Sheets	For Sidewalk Details Refer to S Sheets





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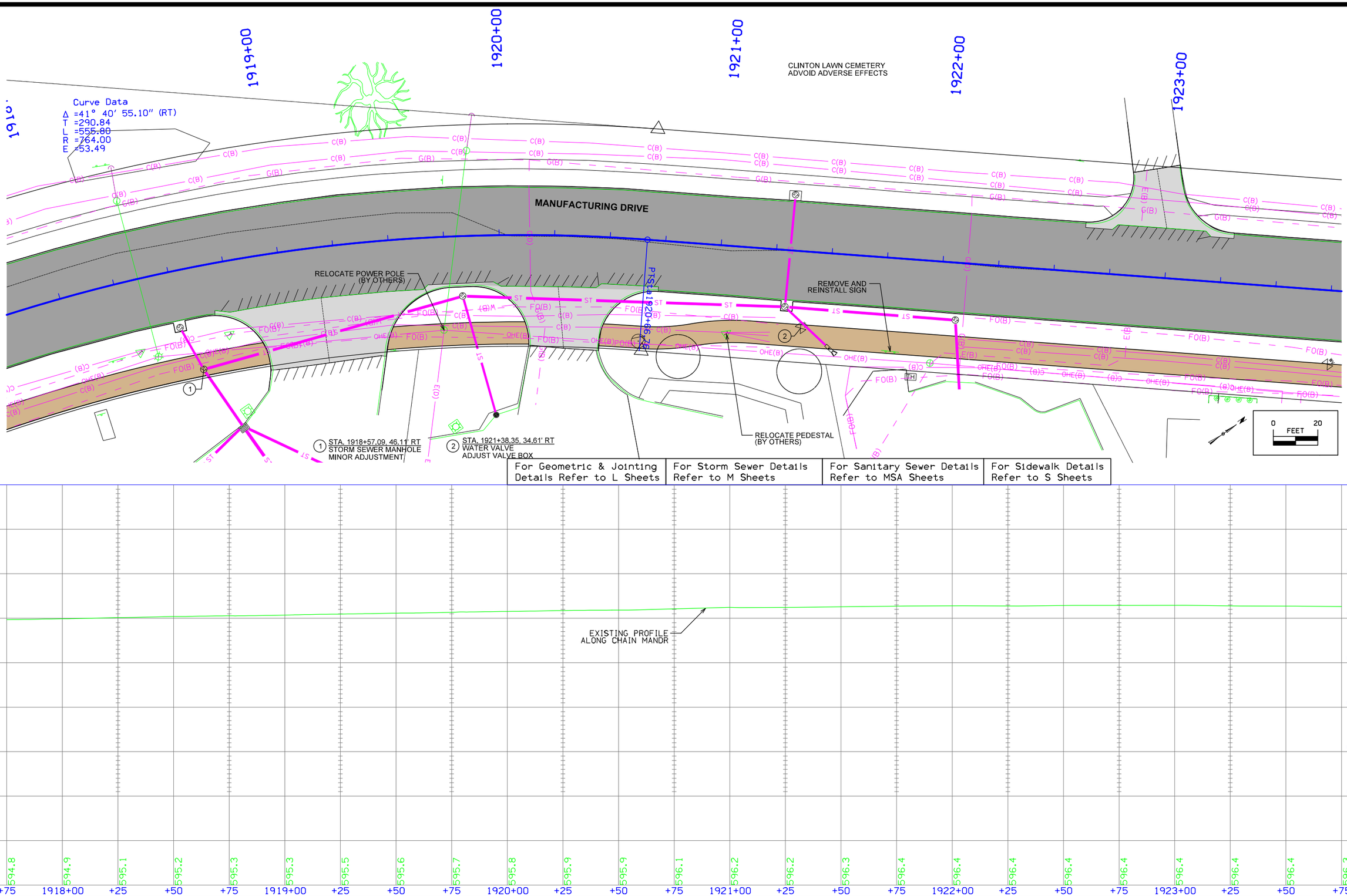

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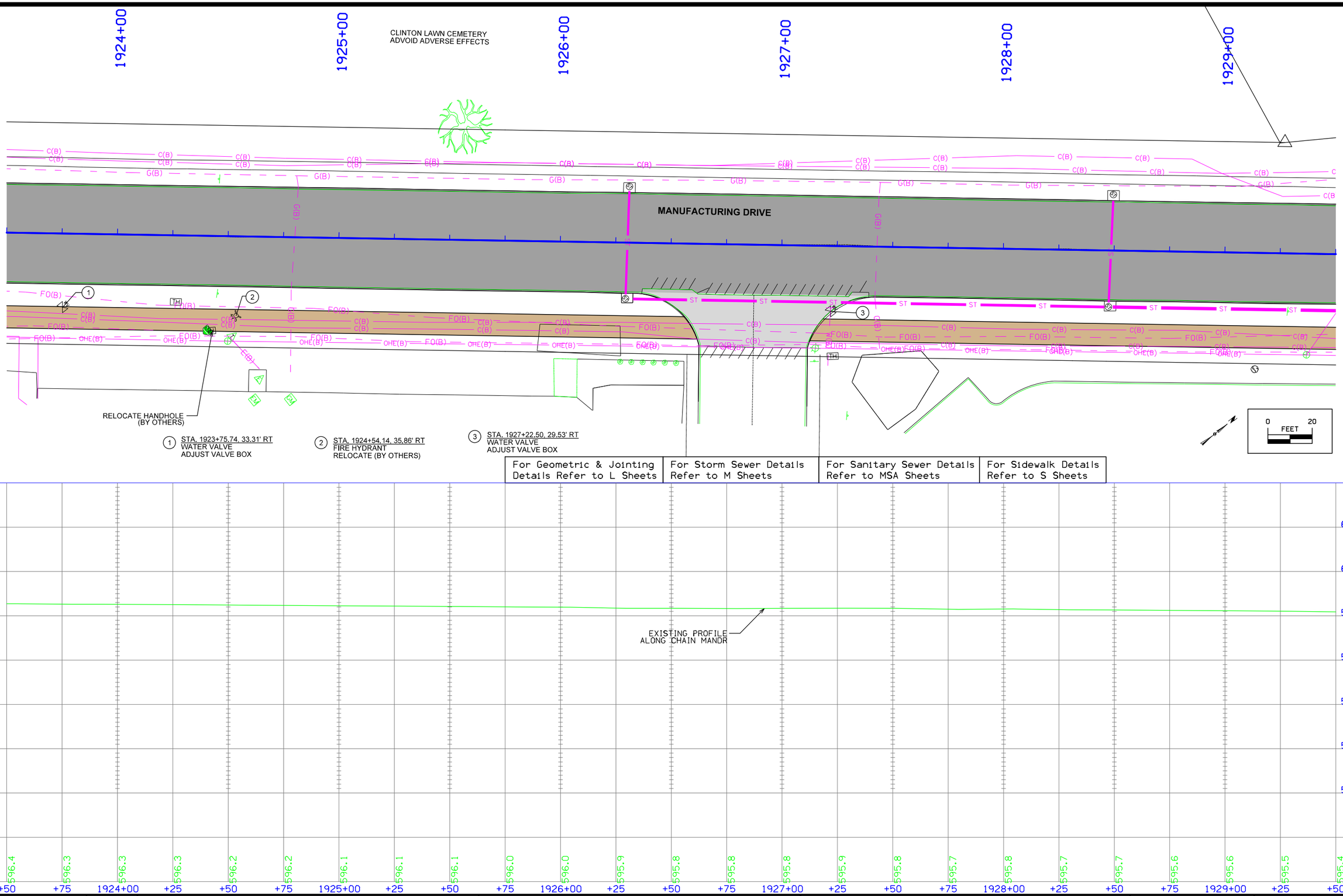

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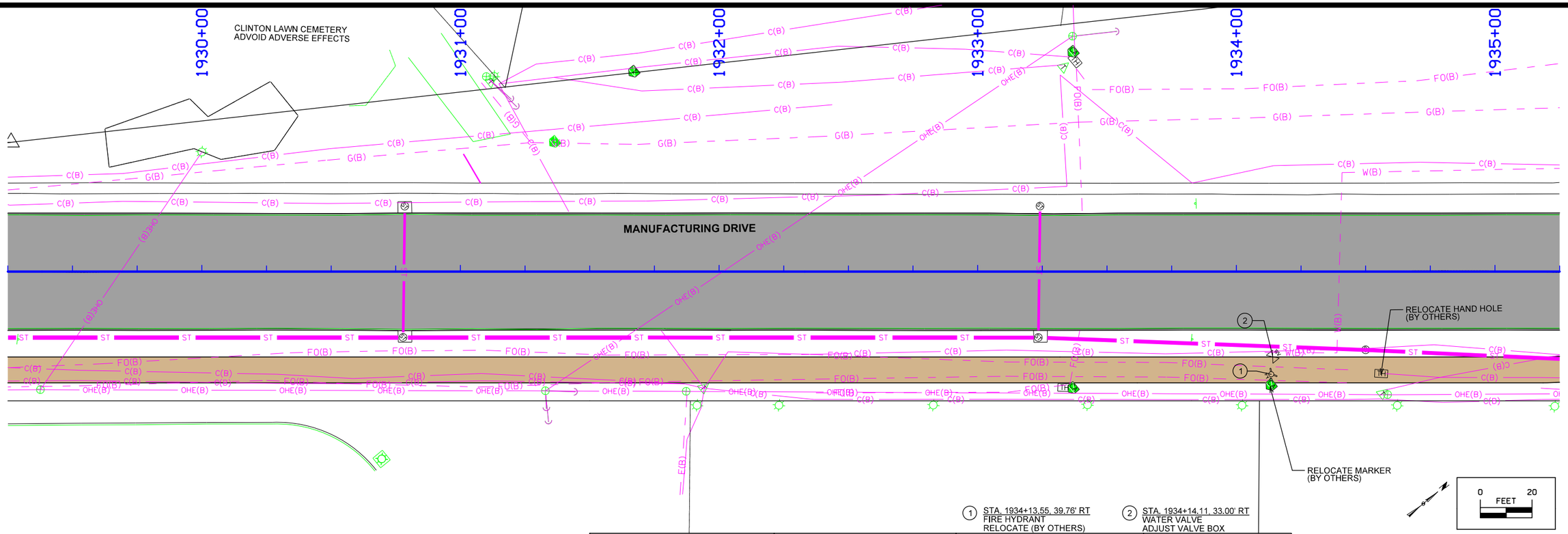

For Geometric & Jointing Details Refer to L Sheets	For Storm Sewer Details Refer to M Sheets	For Sanitary Sewer Details Refer to MSA Sheets	For Sidewalk Details Refer to S Sheets

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER D.4	REVISED

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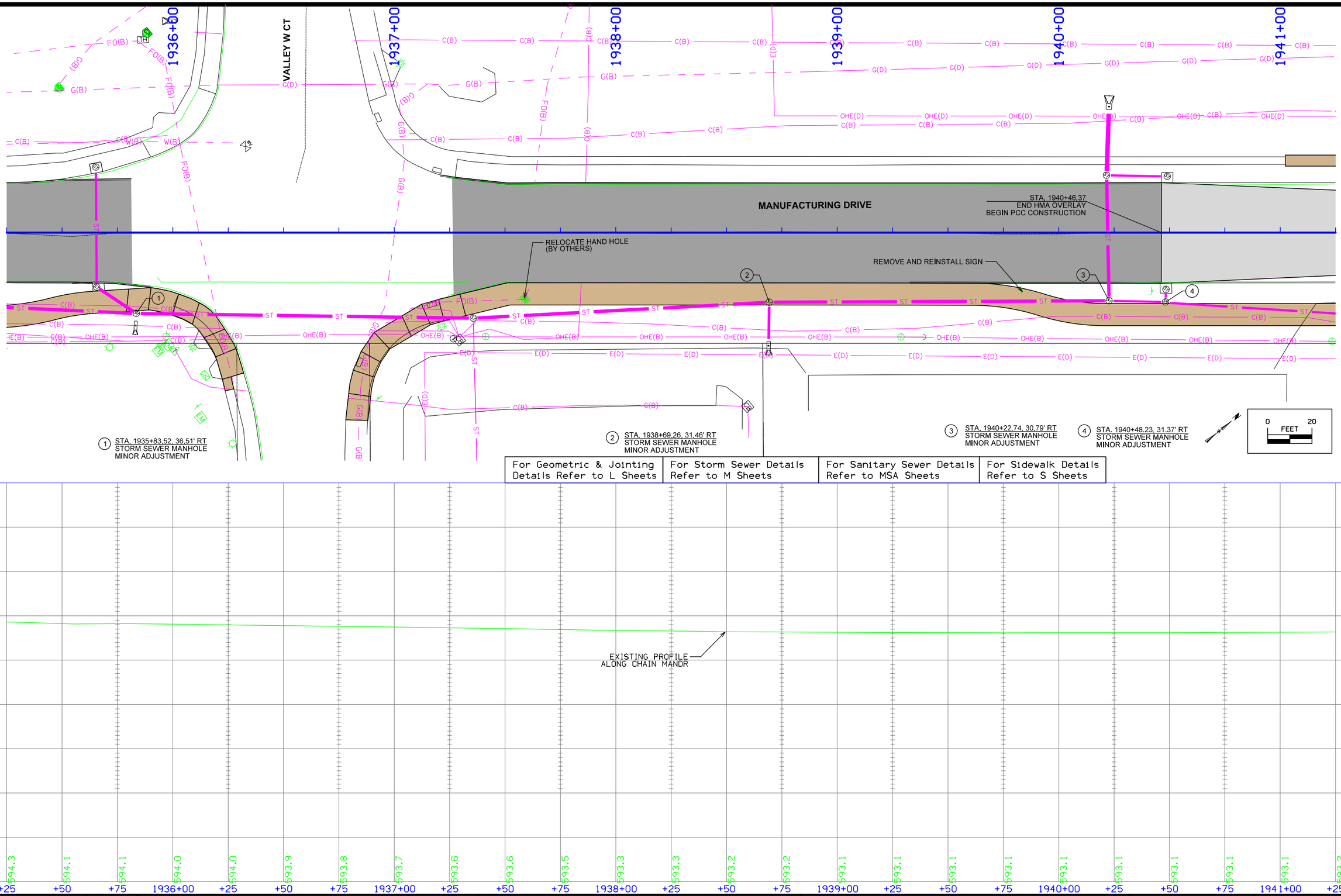

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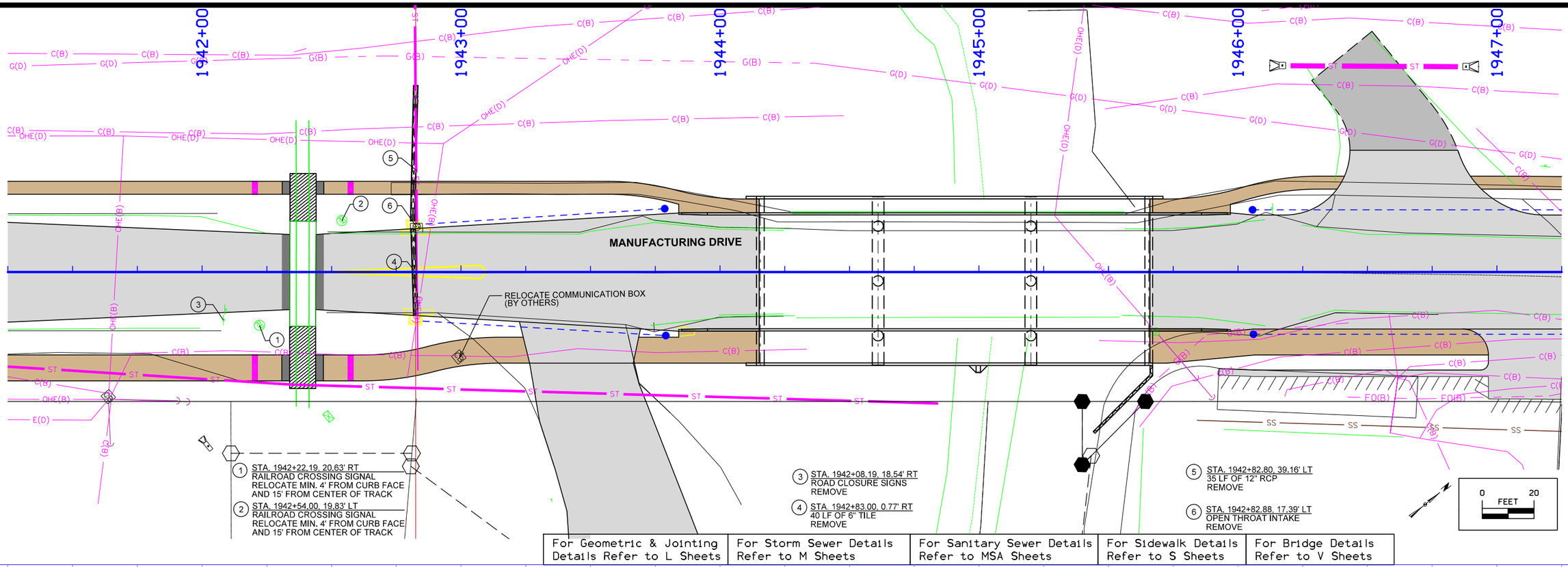
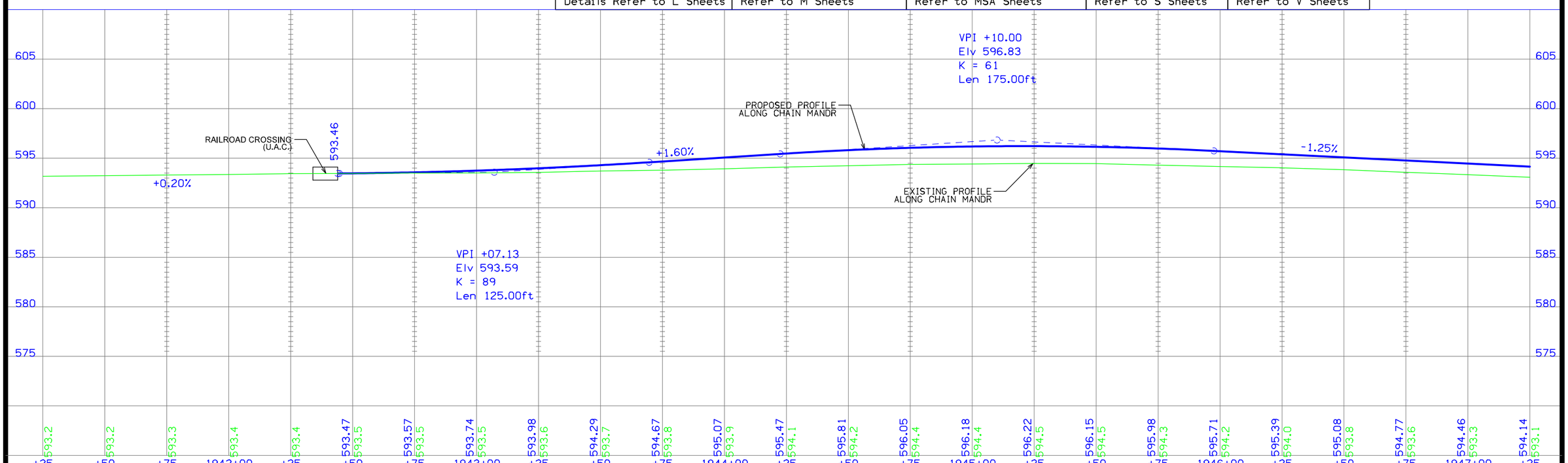


For Geometric & Jointing Details Refer to L Sheets	For Storm Sewer Details Refer to M Sheets	For Sanitary Sewer Details Refer to MSA Sheets	For Sidewalk Details Refer to S Sheets	For Bridge Details Refer to V Sheets



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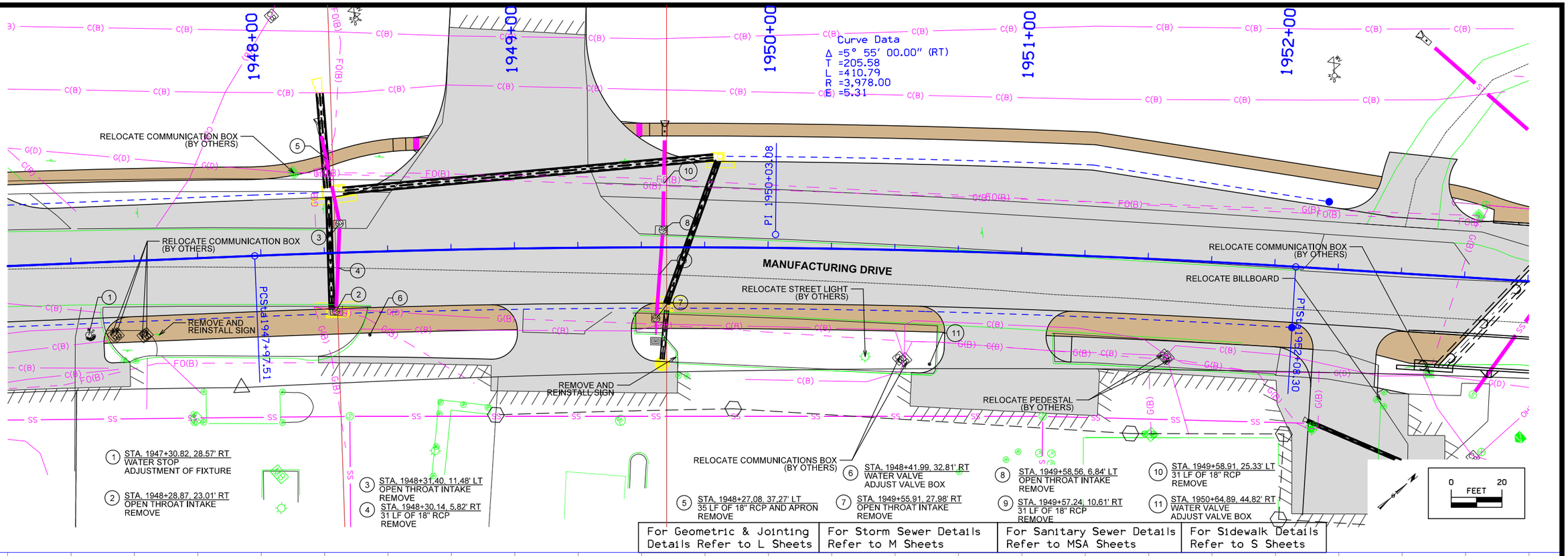

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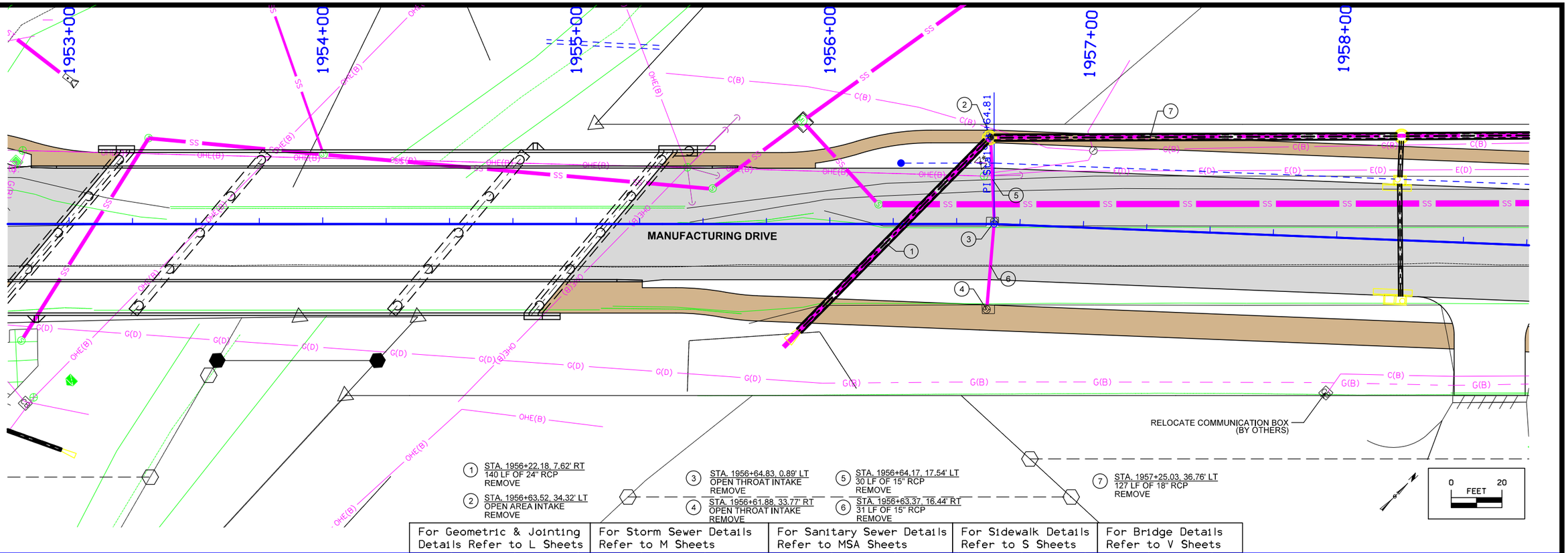


1. STA. 1956+22.18, 7.62' RT
140 LF OF 24" RCP
REMOVE

2. STA. 1956+63.52, 34.32' LT
OPEN AREA INTAKE
REMOVE

3. STA. 1956+64.83, 0.89' LT
OPEN THROAT INTAKE
REMOVE

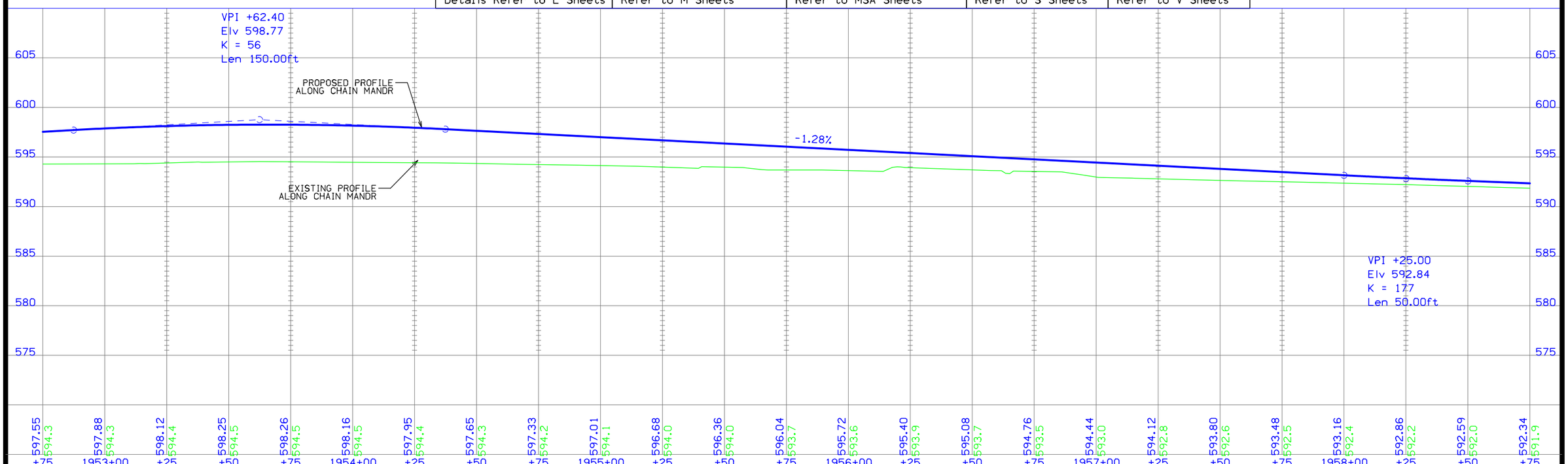
4. STA. 1956+61.88, 33.77' RT
OPEN THROAT INTAKE
REMOVE

5. STA. 1956+64.17, 17.54' LT
30 LF OF 15" RCP
REMOVE

6. STA. 1956+63.37, 16.44' RT
31 LF OF 15" RCP
REMOVE

7. STA. 1957+25.03, 36.76' LT
127 LF OF 18" RCP
REMOVE

For Geometric & Jointing Details Refer to L Sheets	For Storm Sewer Details Refer to M Sheets	For Sanitary Sewer Details Refer to MSA Sheets	For Sidewalk Details Refer to S Sheets	For Bridge Details Refer to V Sheets



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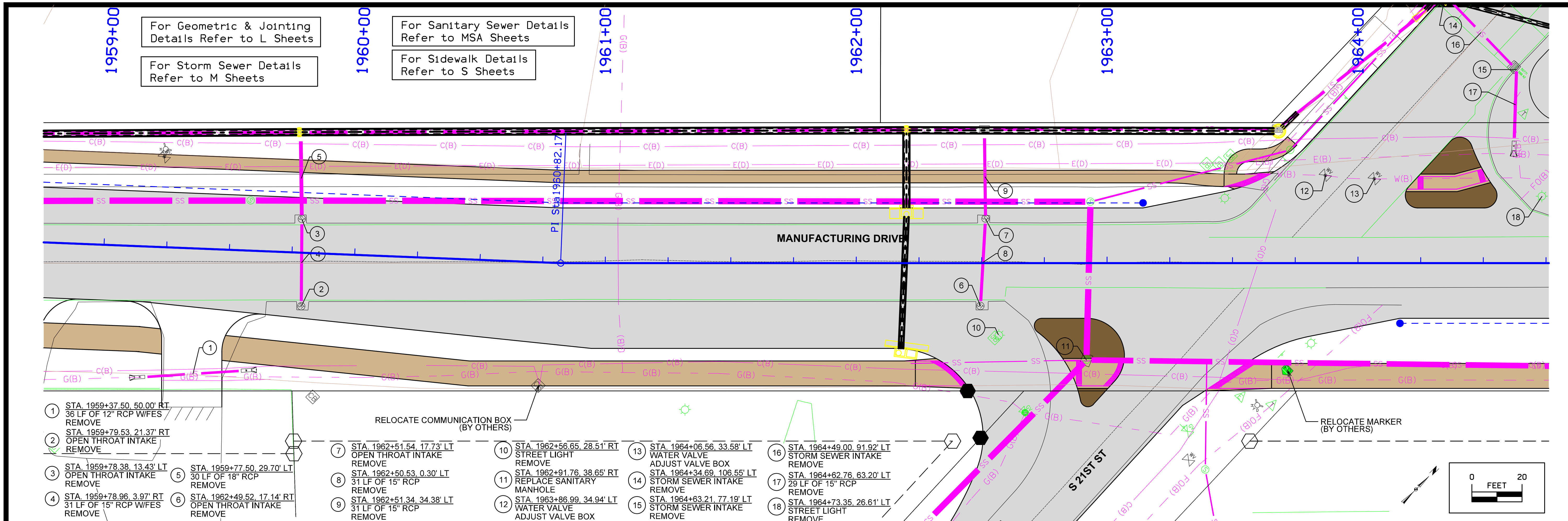

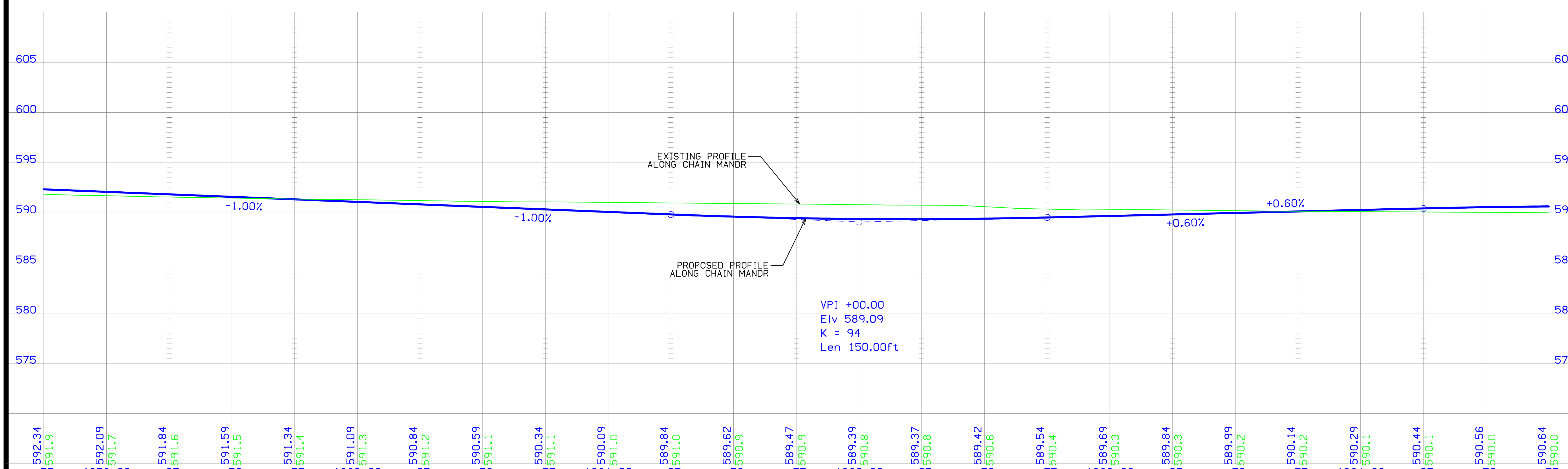

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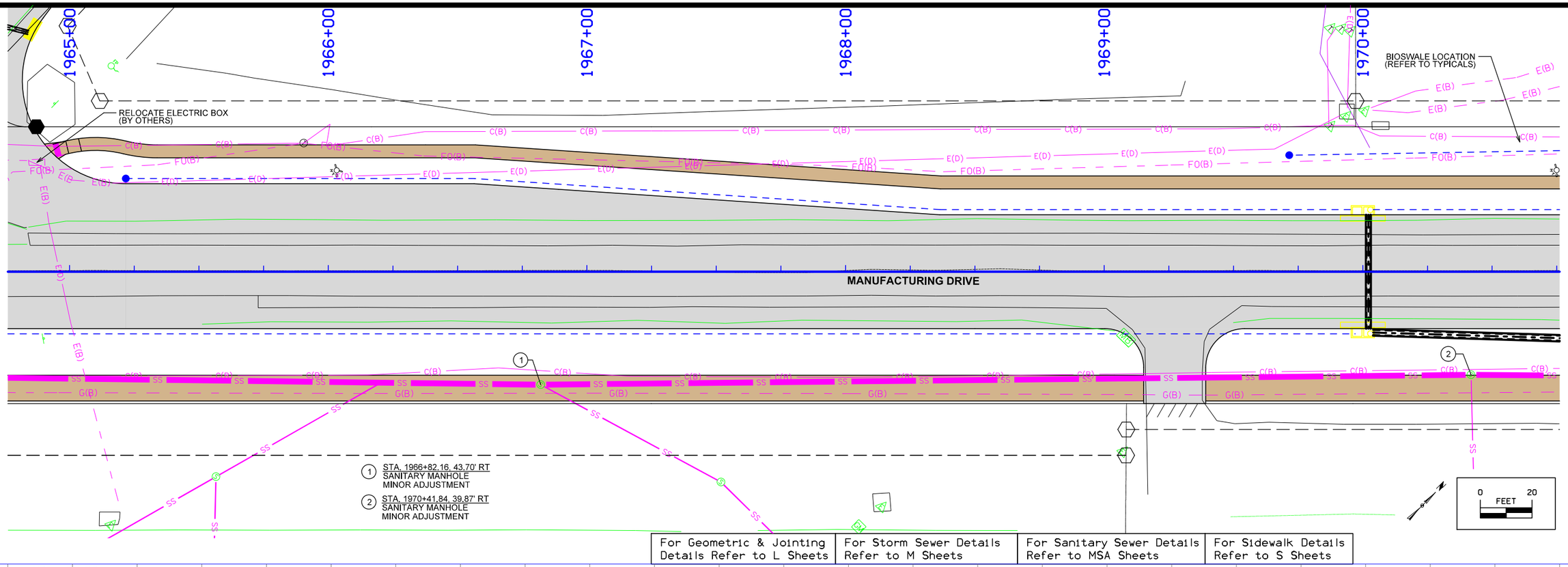

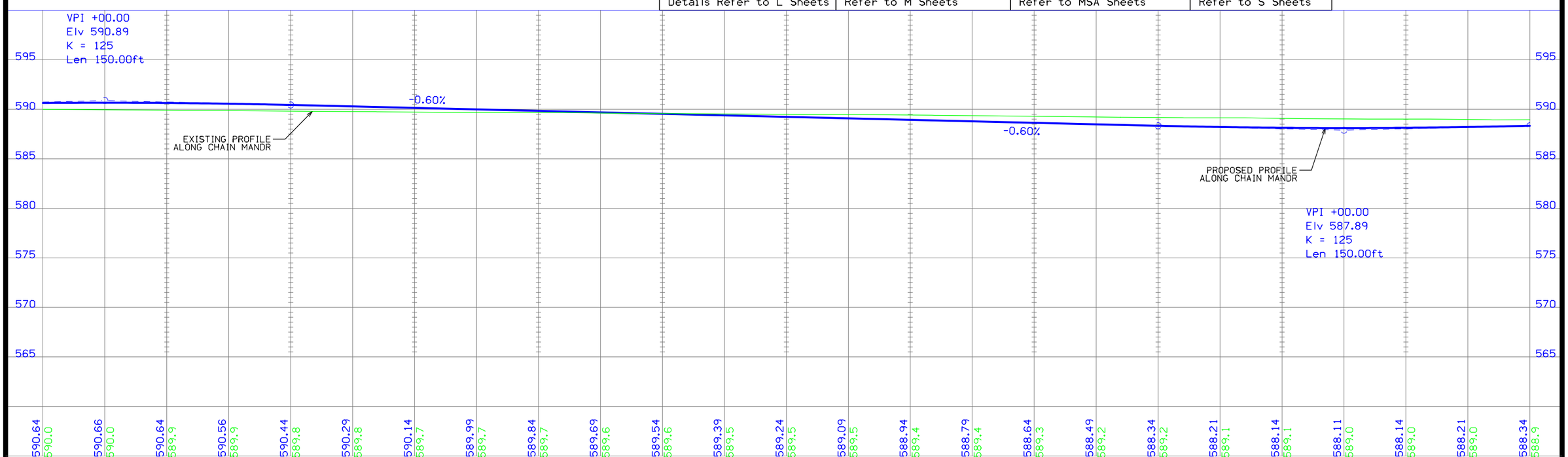

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2:05:57 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_D10.dgn

1971+00 1972+00 1973+00 1974+00 1975+00 1976+00

BIOSWALE LOCATION (REFER TO TYPICALS)

BIOSWALE LOCATION (REFER TO TYPICALS)

MANUFACTURING DRIVE

ADJUST GAS VALVE (BY OTHERS)

1. STA. 1971+44.49, 35.80' LT
WATER VALVE
ADJUST VALVE BOX

2. STA. 1973+24.98, 41.90' RT
REPLACE SANITARY MANHOLE

3. STA. 1974+90.12, 35.03' RT
48 LF OF 15" RCP W/FES
REMOVE

4. STA. 1973+27.77, 39.64' LT
62 LF OF 12" RCP W/FES
REMOVE

5. STA. 1973+09.26, 39.29' LT
STORM SEWER INTAKE
REMOVE

6. STA. 1973+48.62, 40.04' LT
STORM SEWER INTAKE
REMOVE

7. STA. 1974+39.04, 32.96' LT
WATER VALVE
ADJUST VALVE BOX

8. STA. 1975+63.80, 35.59' LT
WATER VALVE
ADJUST VALVE BOX

0 FEET 20

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VPI +25.00
Elv 589.24
K = 227
Len 250.00ft

+0.60%

-0.50%

-0.50%

EXISTING PROFILE ALONG CHAIN MANDR

PROPOSED PROFILE ALONG CHAIN MANDR

595 590 585 580 575 570 565

588.34 588.9 | 588.49 588.9 | 588.62 588.9 | 588.73 588.8 | 588.81 588.8 | 588.87 588.7 | 588.89 588.7 | 588.89 588.6 | 588.86 588.6 | 588.81 588.6 | 588.72 588.5 | 588.61 588.5 | 588.49 588.4 | 588.36 588.4 | 588.24 588.4 | 588.11 588.3 | 587.99 588.3 | 587.86 588.2 | 587.74 588.2 | 587.61 588.2 | 587.49 588.1 | 587.36 588.1 | 587.25 588.0 | 587.15 588.0 | 587.07 587.9

+75 1971+00 +25 +50 +75 1972+00 +25 +50 +75 1973+00 +25 +50 +75 1974+00 +25 +50 +75 1975+00 +25 +50 +75 1976+00 +25 +50 +75

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER D.11	REVISED

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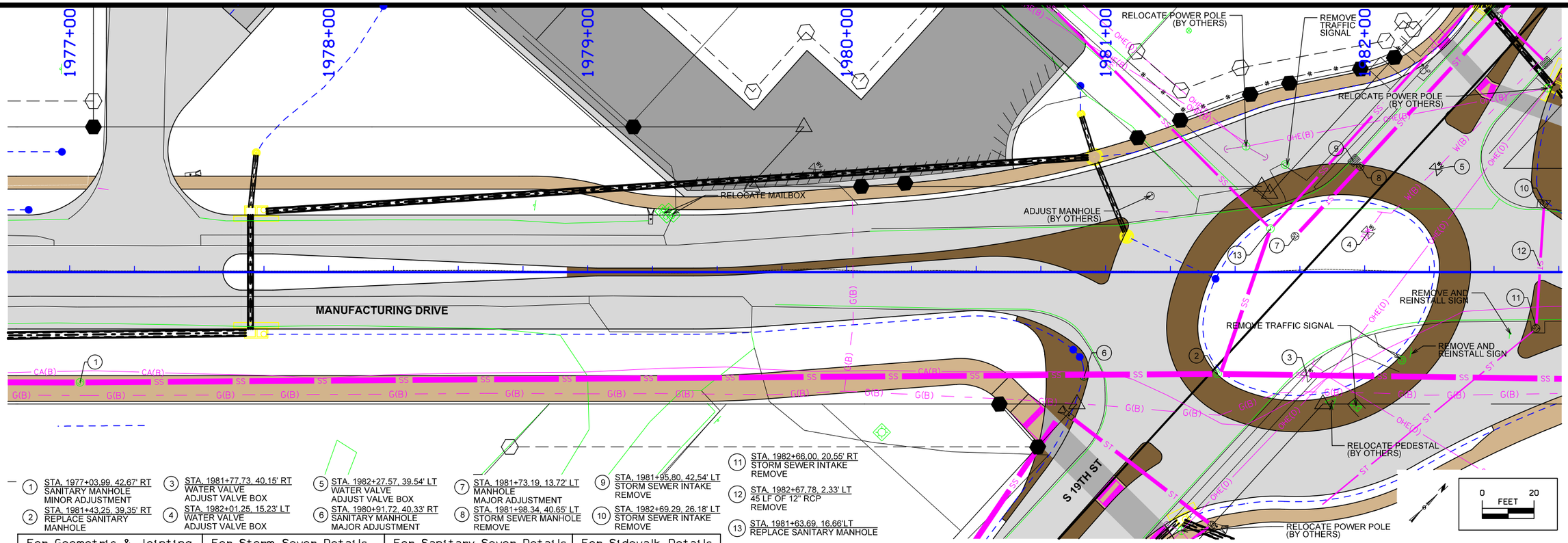
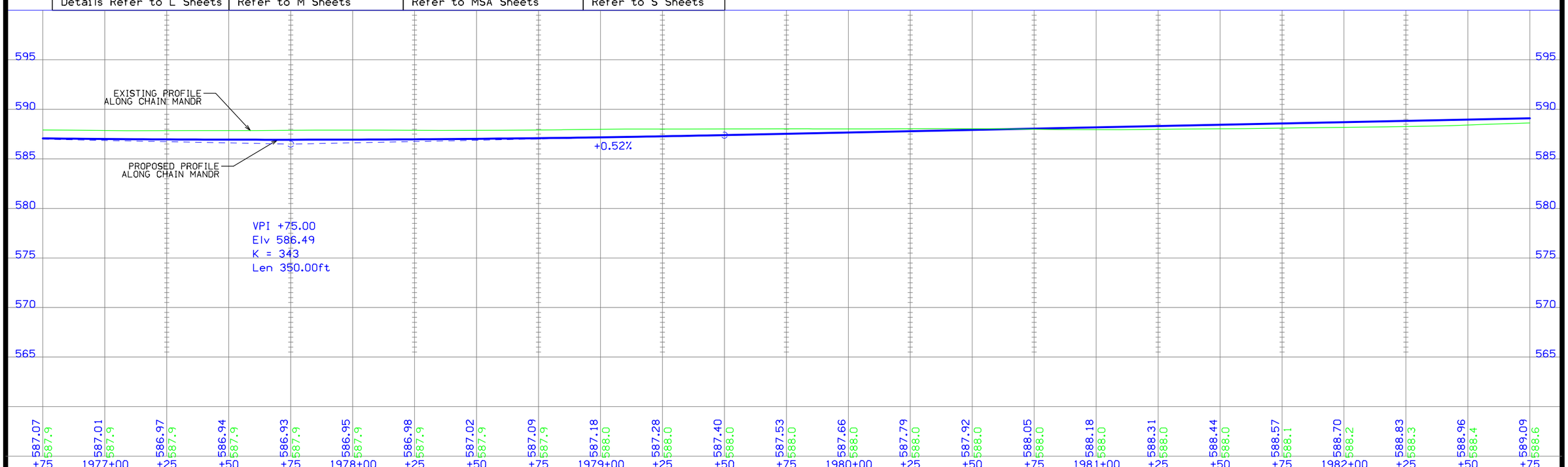


1. STA. 1977+03.99, 42.67' RT — SANITARY MANHOLE MINOR ADJUSTMENT
2. STA. 1981+43.25, 39.35' RT — REPLACE SANITARY MANHOLE
3. STA. 1981+77.73, 40.15' RT — WATER VALVE ADJUST VALVE BOX
4. STA. 1982+01.25, 15.23' LT — WATER VALVE ADJUST VALVE BOX
5. STA. 1982+27.57, 39.54' LT — WATER VALVE ADJUST VALVE BOX
6. STA. 1980+91.72, 40.33' RT — SANITARY MANHOLE MAJOR ADJUSTMENT
7. STA. 1981+73.19, 13.72' LT — MANHOLE MAJOR ADJUSTMENT
8. STA. 1981+98.34, 40.65' LT — STORM SEWER MANHOLE REMOVE
9. STA. 1981+95.80, 42.54' LT — STORM SEWER INTAKE REMOVE
10. STA. 1982+69.29, 26.18' LT — STORM SEWER INTAKE REMOVE
11. STA. 1982+66.00, 20.55' RT — STORM SEWER INTAKE REMOVE
12. STA. 1982+67.78, 2.33' LT — 45 LF OF 12" RCP REMOVE
13. STA. 1981+63.69, 16.66'LT — REPLACE SANITARY MANHOLE

For Geometric & Jointing Details Refer to L Sheets	For Storm Sewer Details Refer to M Sheets	For Sanitary Sewer Details Refer to MSA Sheets	For Sidewalk Details Refer to S Sheets



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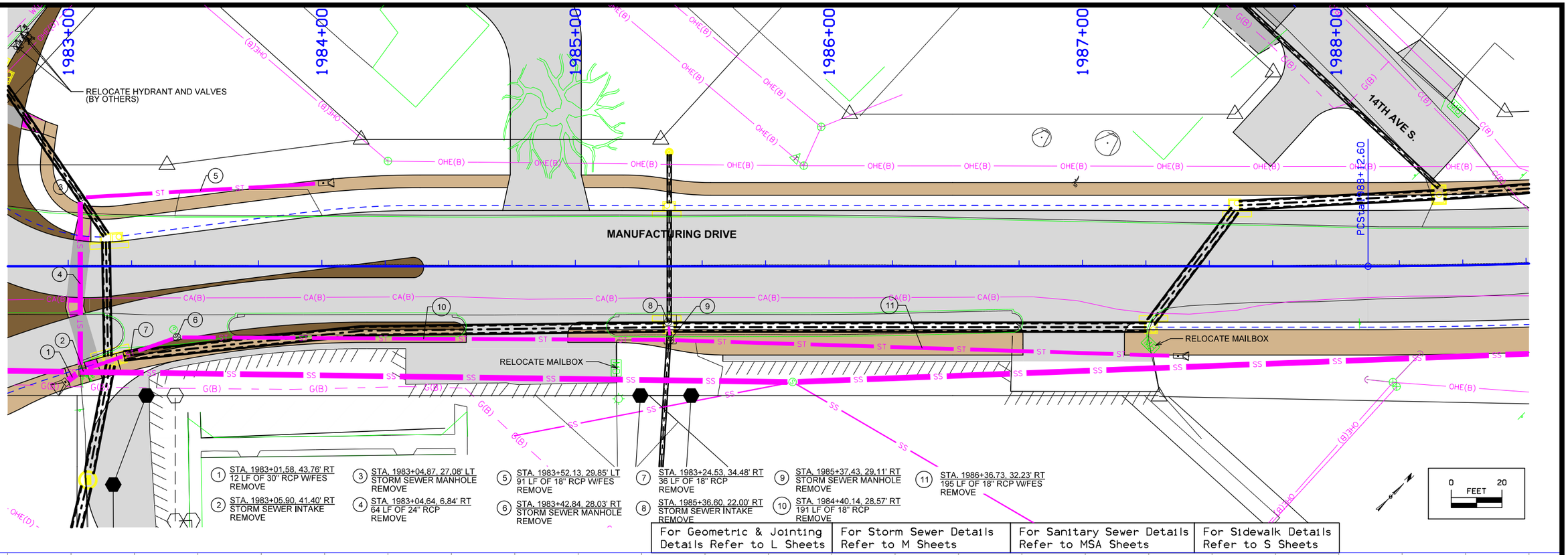
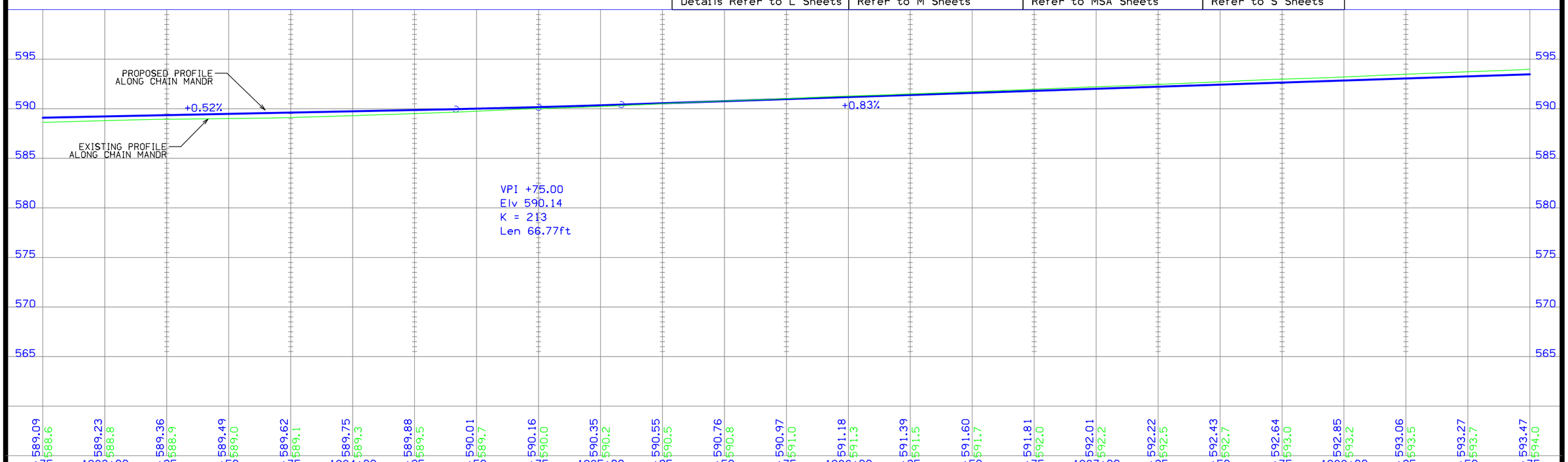


For Geometric & Jointing Details Refer to L Sheets	For Storm Sewer Details Refer to M Sheets	For Sanitary Sewer Details Refer to MSA Sheets	For Sidewalk Details Refer to S Sheets



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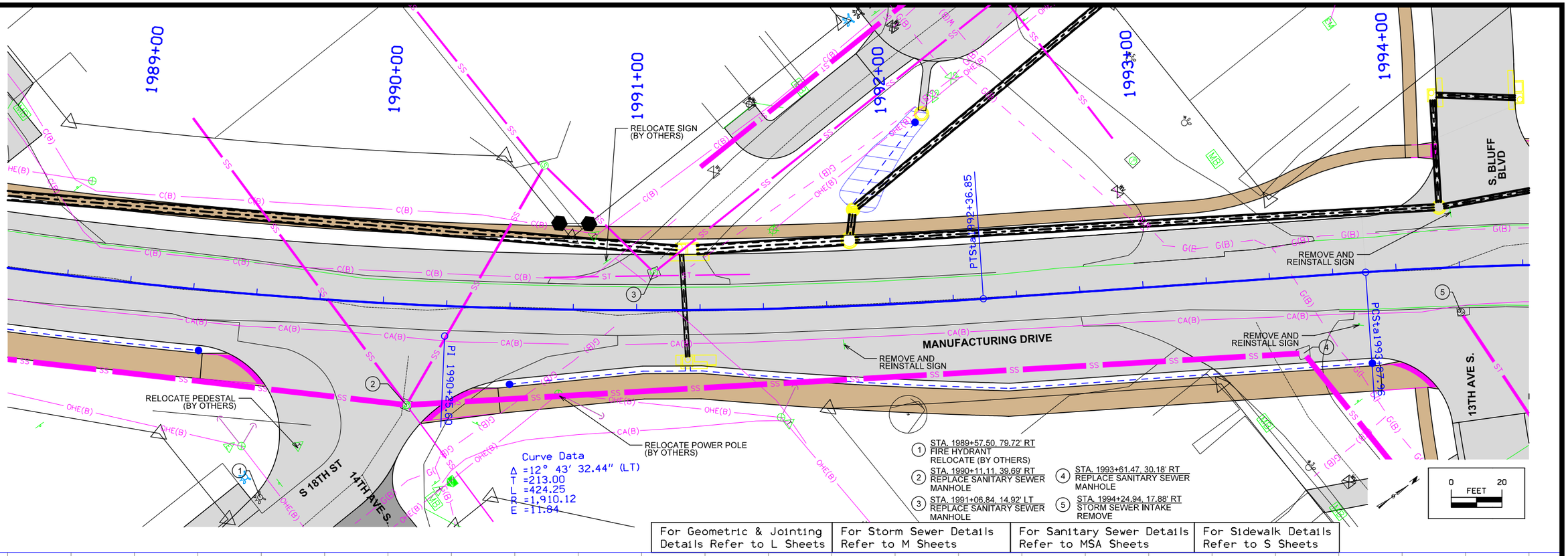

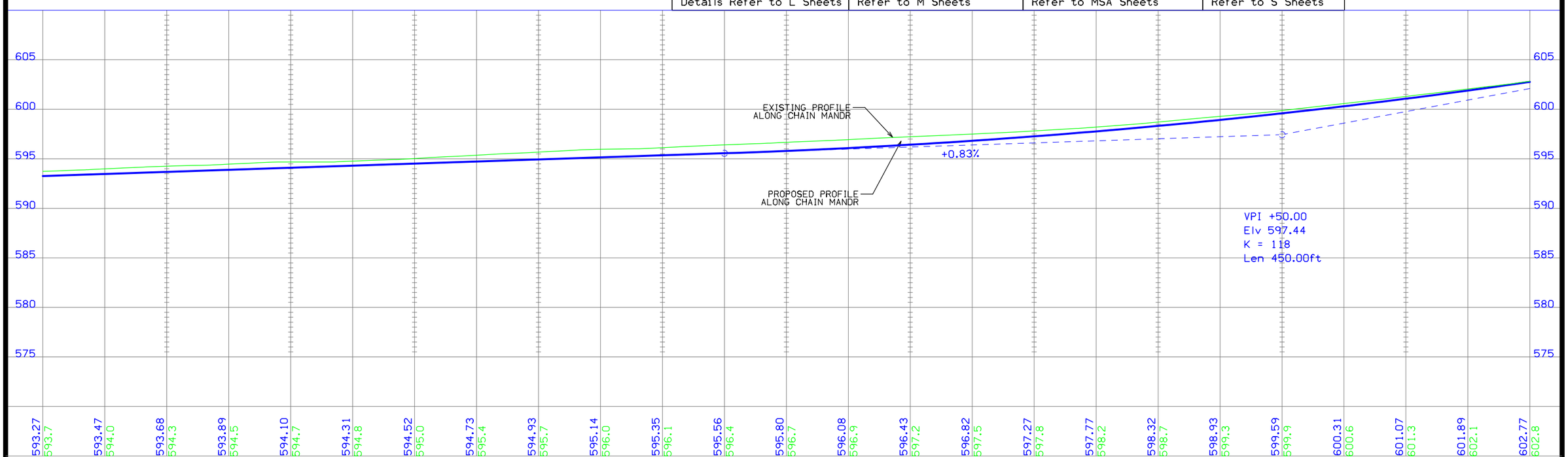

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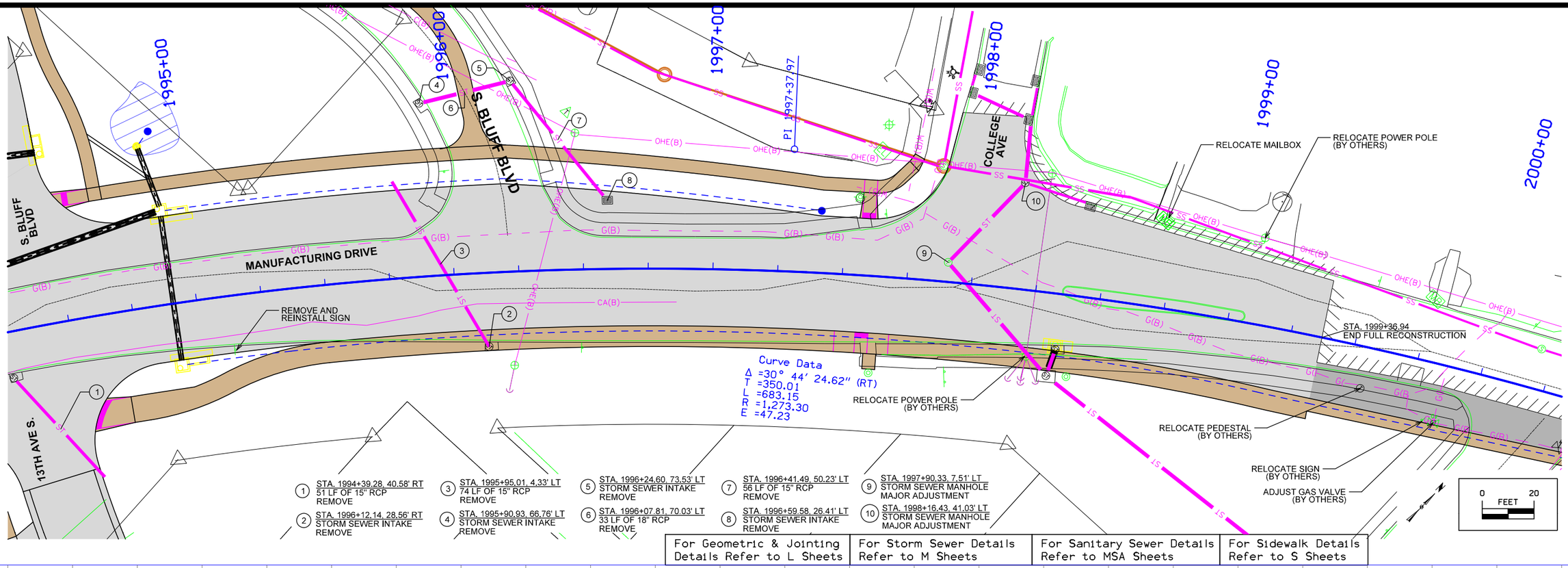

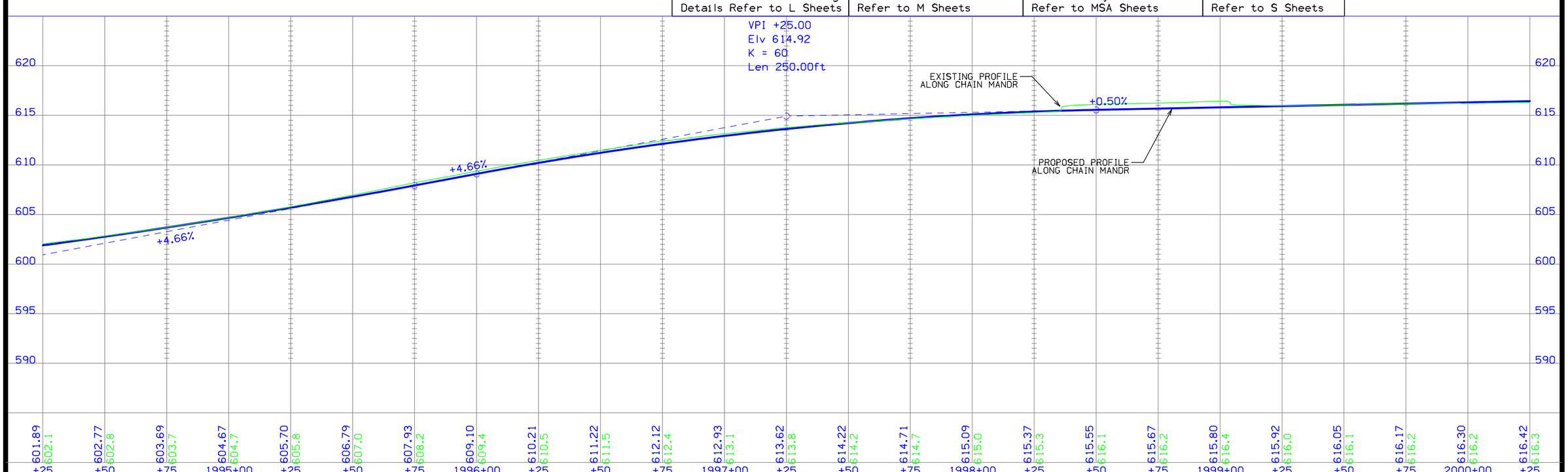

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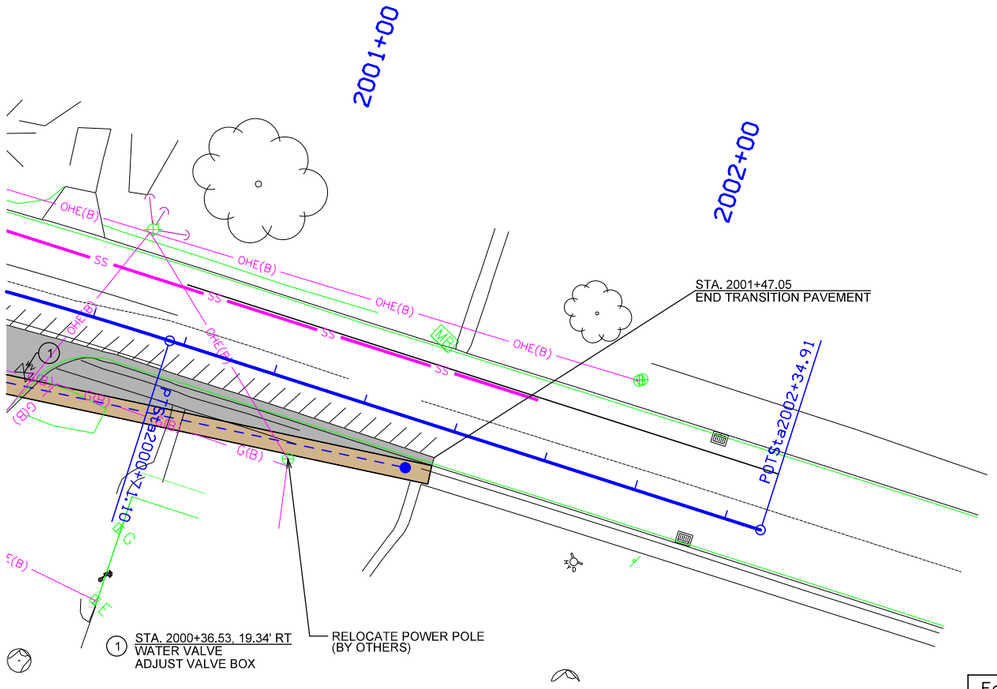

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FEET

For Geometric & Jointing Details Refer to L Sheets	For Storm Sewer Details Refer to M Sheets	For Sanitary Sewer Details Refer to MSA Sheets	For Sidewalk Details Refer to S Sheets

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER D.16	REVISED

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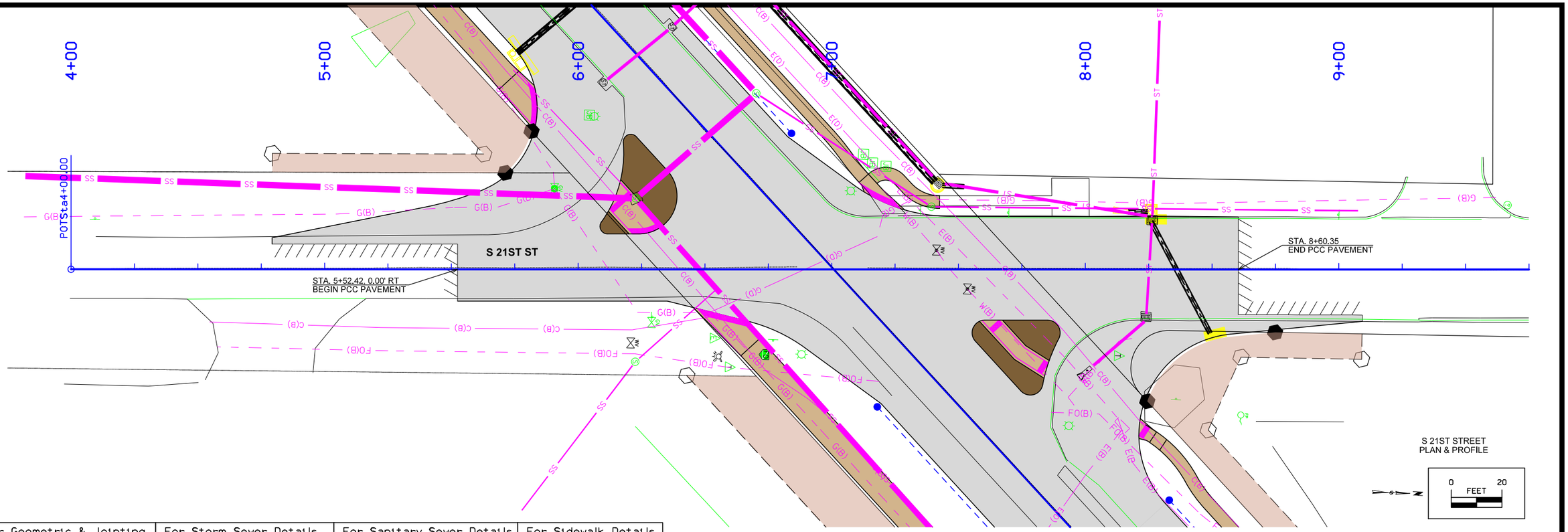
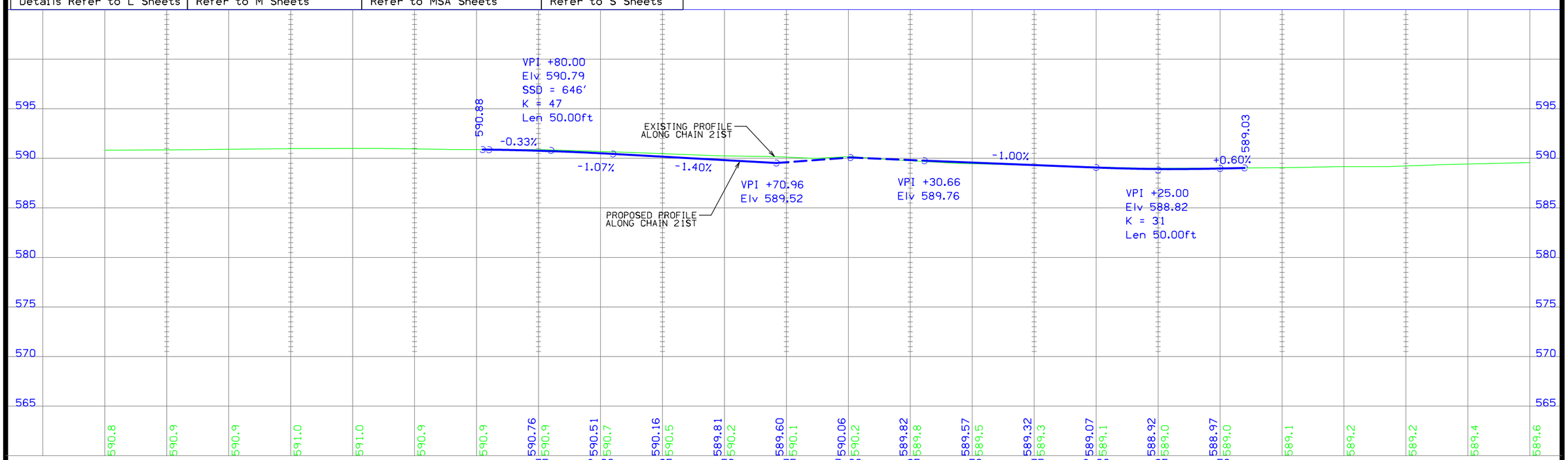


For Geometric & Jointing Details Refer to L Sheets	For Storm Sewer Details Refer to M Sheets	For Sanitary Sewer Details Refer to MSA Sheets	For Sidewalk Details Refer to S Sheets



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER E.1	REVISED

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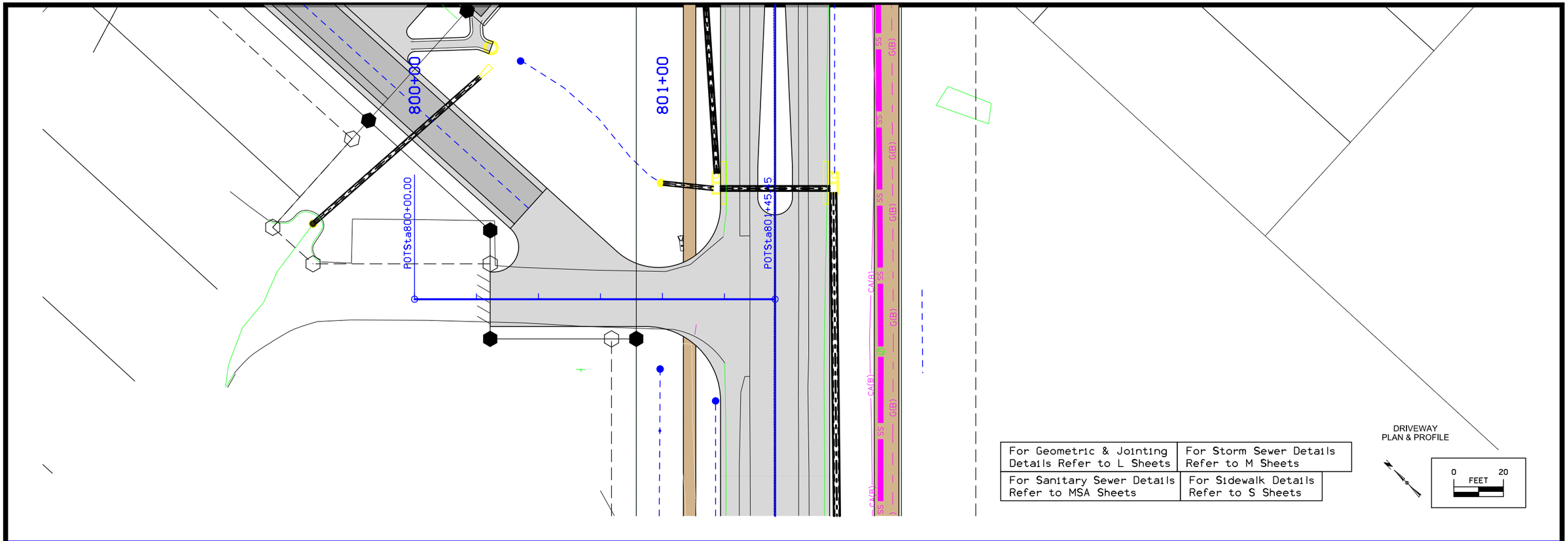
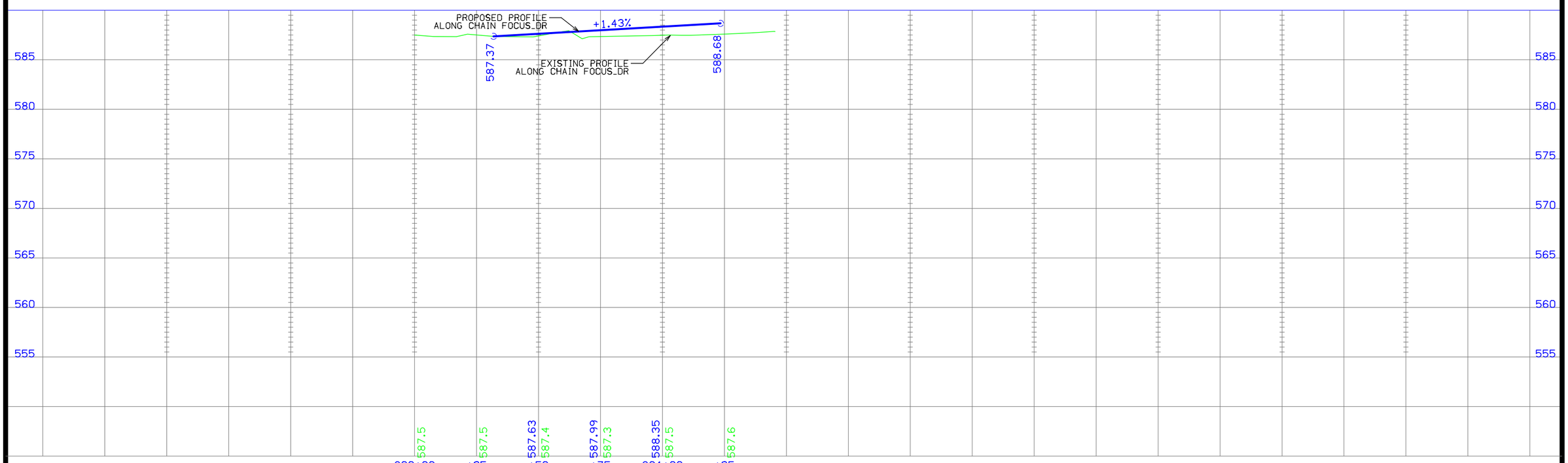
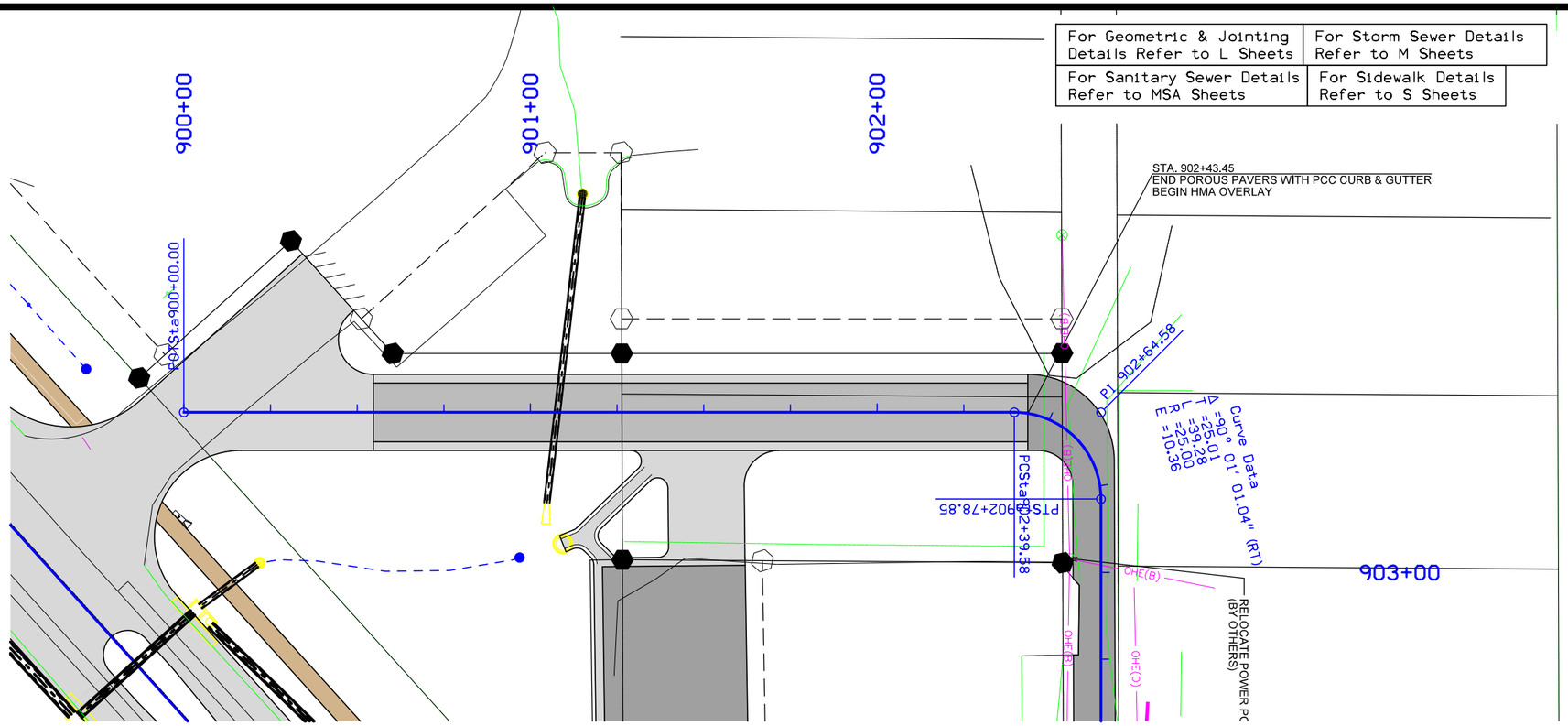




FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER E.2	REVISED

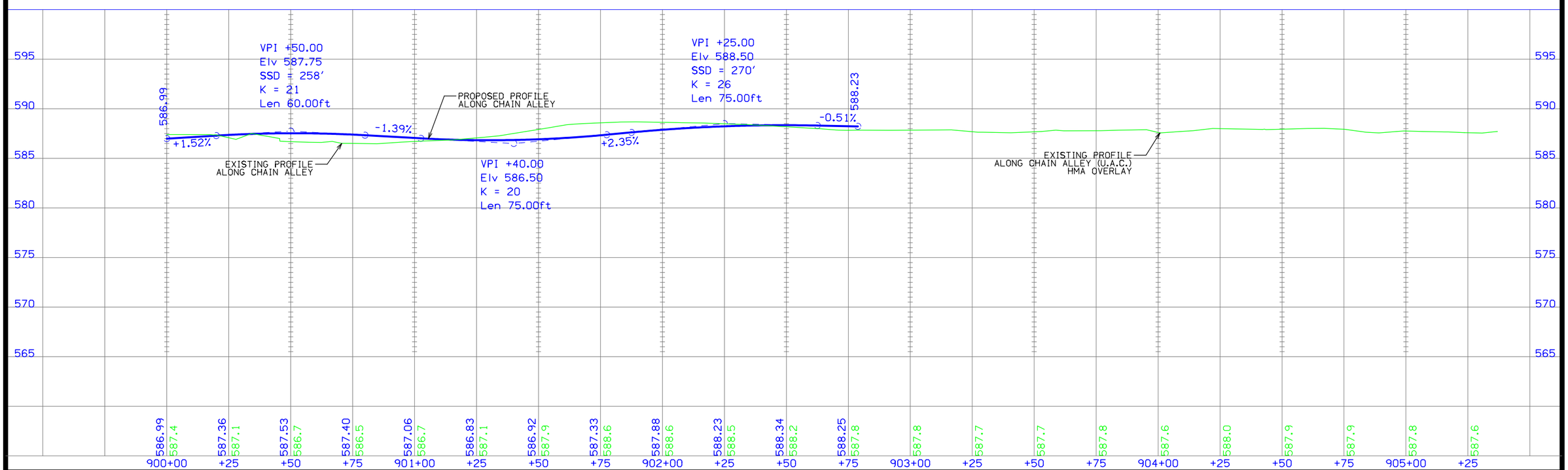
2:06:23 PM 7/2/2021 sschellch P:\30618011-001\06-Drawings\Civil\Dgns\30618011_E02.dgn

For Geometric & Jointing Details Refer to L Sheets	For Storm Sewer Details Refer to M Sheets
For Sanitary Sewer Details Refer to MSA Sheets	For Sidewalk Details Refer to S Sheets



ALLEY
PLAN & PROFILE

0 FEET 20



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER E.3	REVISED

2:06:24 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_E03.dgn

For Geometric & Jointing Details Refer to L Sheets

For Sanitary Sewer Details Refer to MSA Sheets

For Storm Sewer Details Refer to M Sheets

For Sidewalk Details Refer to S Sheets

902+00

903+00

904+00

905+00

STA. 902+43.45
END POROUS PAVERS WITH PCC CURB & GUTTER
BEGIN HMA OVERLAY

Curve Data
Δ =90° 01' 01.04" (RT)
T =25.01
L =39.28
R =25.00
E =10.36

PI 902+64.58

PCSta902+39.58

PTSta902+78.85

RELOCATE POWER POLE (BY OTHERS)

STA. 905+08.07
END HMA OVERLAY

RELOCATE PEDESTAL (BY OTHERS)

POTSta905+36.96

ELIMINATE ROAD CONNECTION TO MANUFACTURING DRIVE

RELOCATE POWER POLE (BY OTHERS)

RELOCATE ELECTRIC METER (BY OTHERS)

ALLEY
PLAN & PROFILE

0 FEET 20

595
590
585
580
575
570
565

EXISTING PROFILE
ALONG CHAIN ALLEY (U.A.C.)
HMA OVERLAY

586.92 587.9 | 587.33 588.6 | 587.88 588.6 | 588.23 588.5 | 588.34 588.2 | 588.25 587.8 | 587.8 | 587.7 | 587.7 | 587.8 | 587.6 | 588.0 | 587.9 | 587.9 | 587.8 | 587.6

+50 +75 902+00 +25 +50 +75 903+00 +25 +50 +75 904+00 +25 +50 +75 905+00 +25 +5

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER E.4	REVISED

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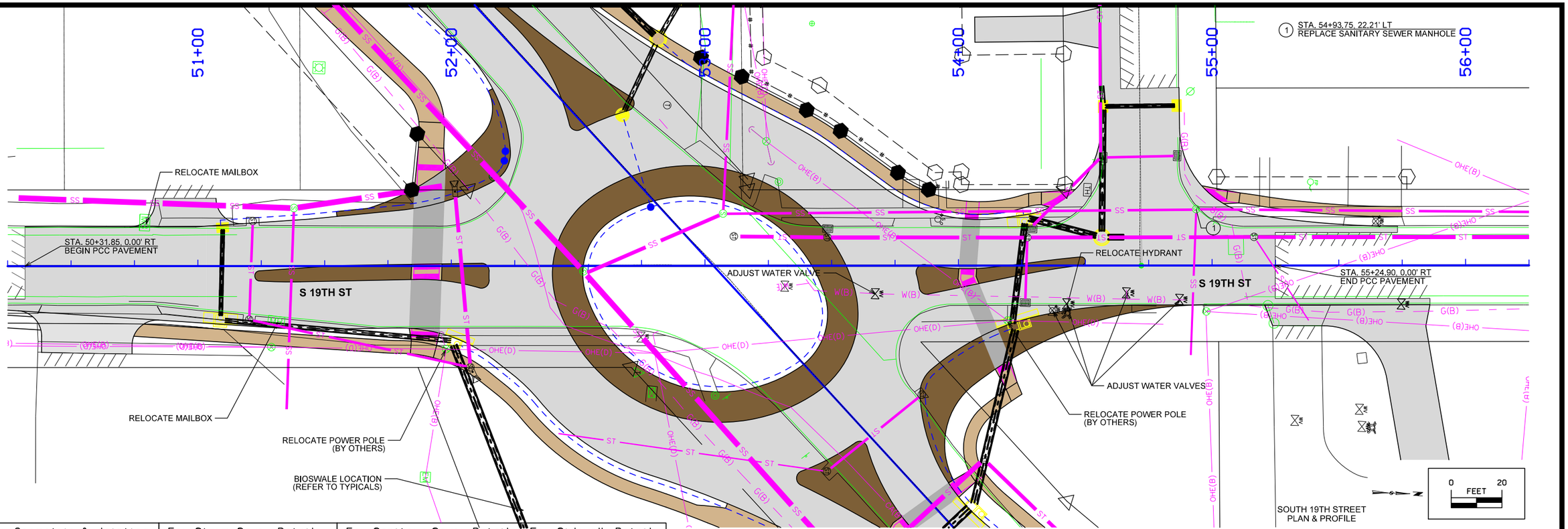
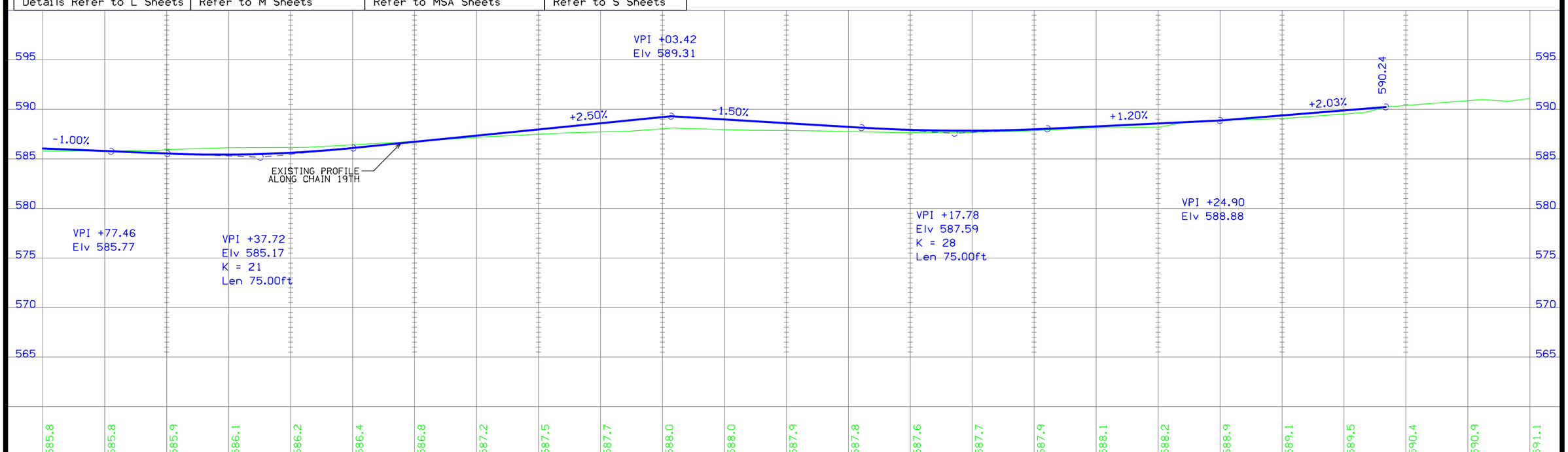


For Geometric & Jointing Details Refer to L Sheets	For Storm Sewer Details Refer to M Sheets	For Sanitary Sewer Details Refer to MSA Sheets	For Sidewalk Details Refer to S Sheets



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER E.5	REVISED

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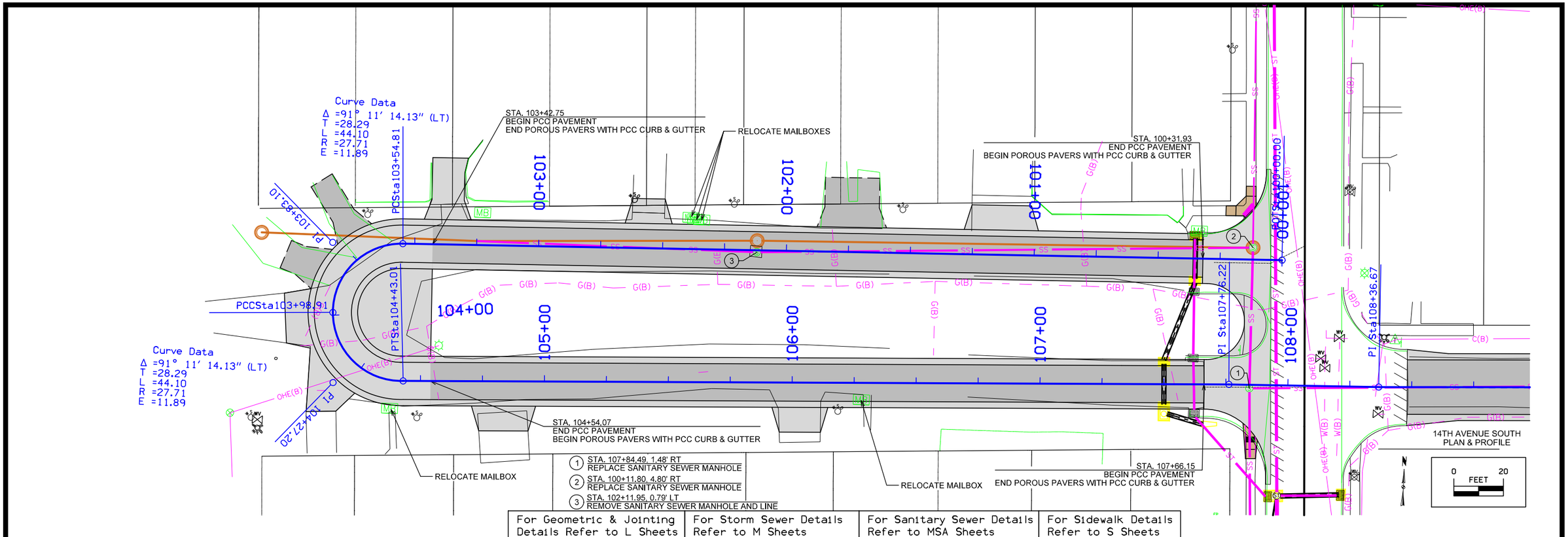

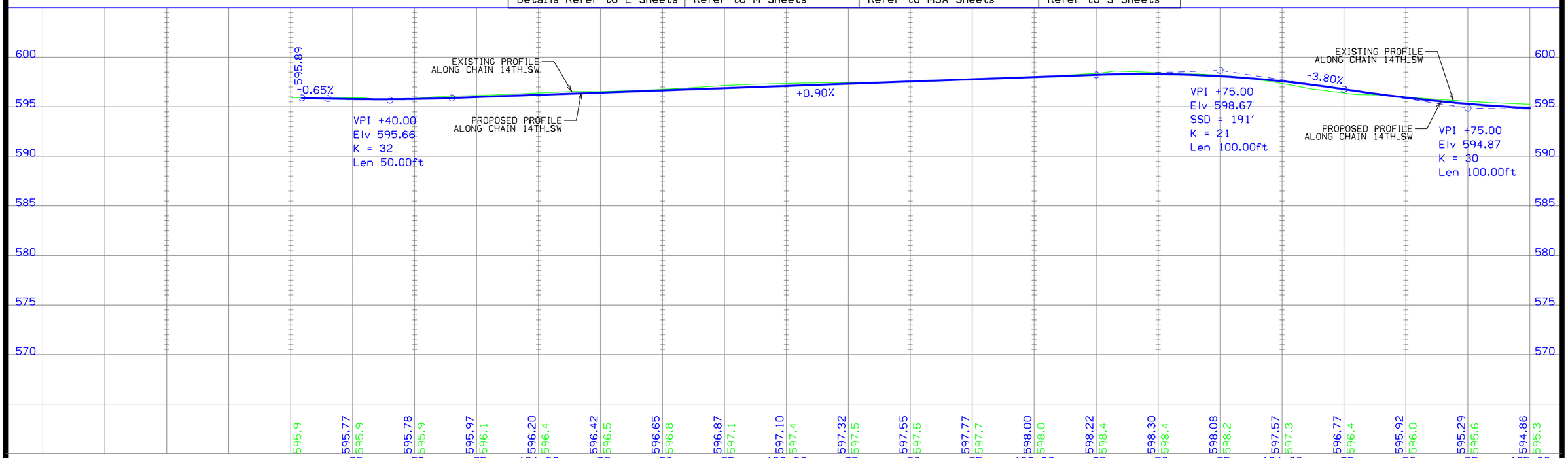

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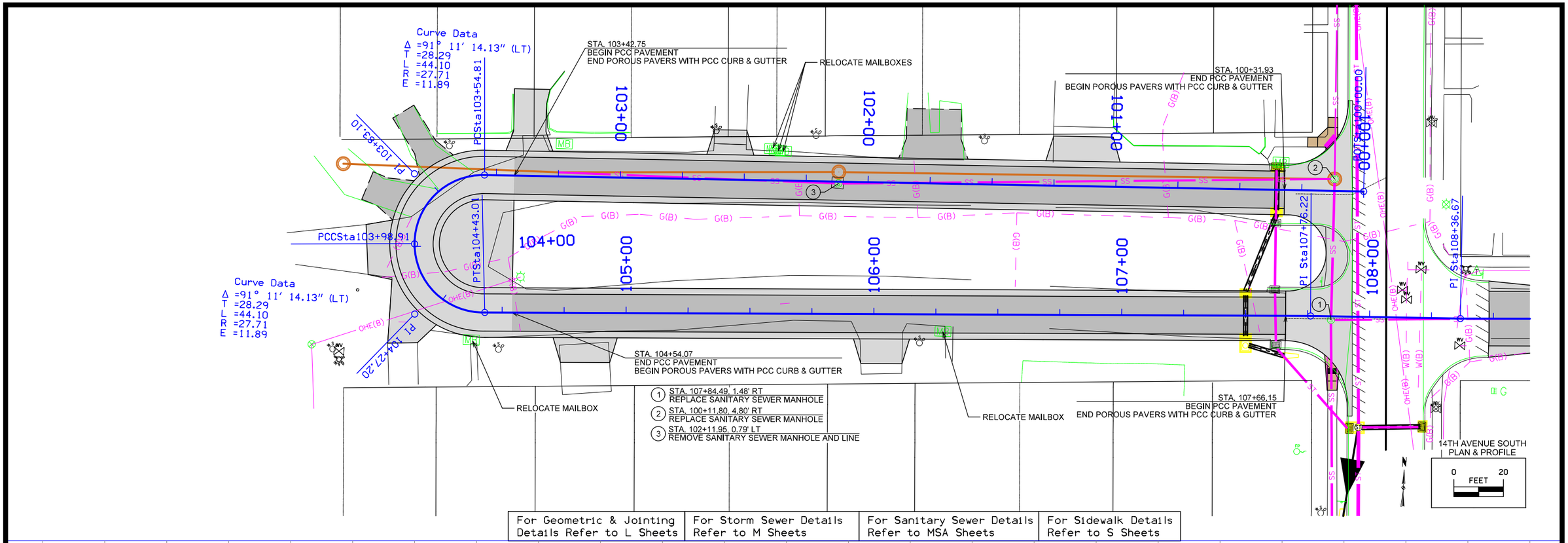

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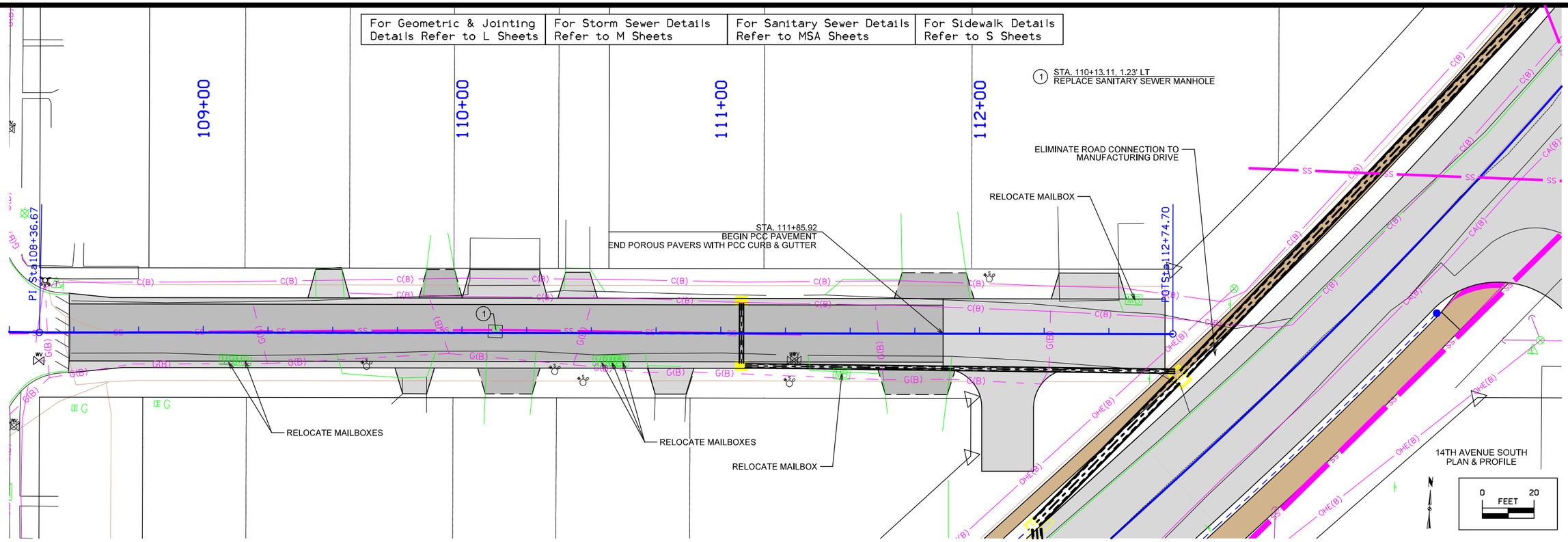
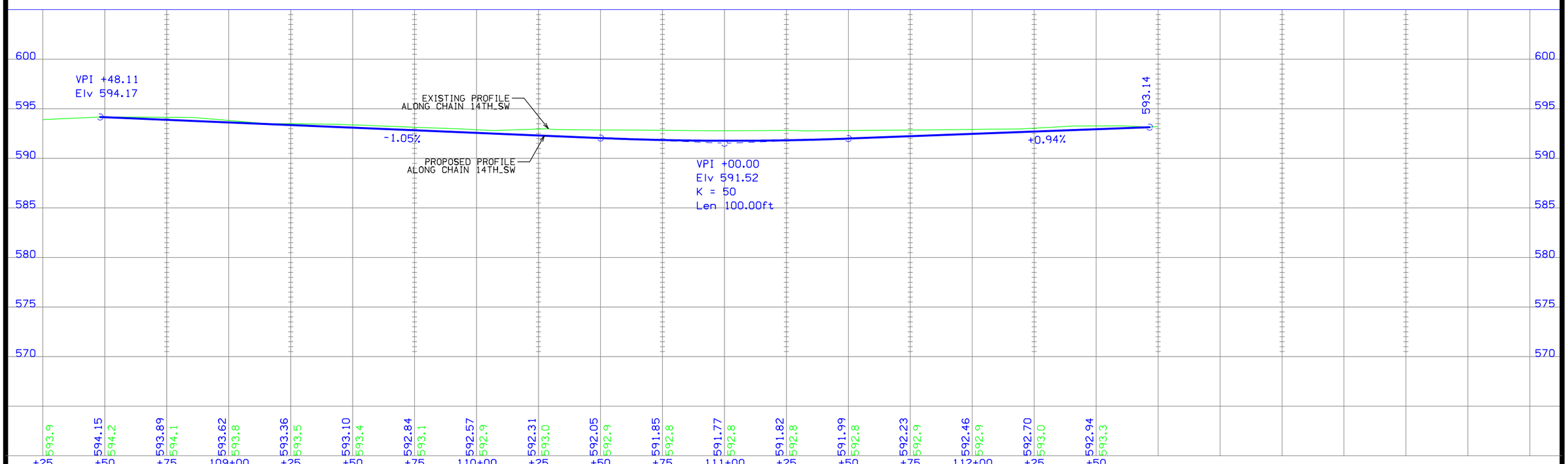
2:06:33 PM 7/2/2021 sschellich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_E07.dgn

For Geometric & Jointing Details Refer to L Sheets	For Storm Sewer Details Refer to M Sheets	For Sanitary Sewer Details Refer to MSA Sheets	For Sidewalk Details Refer to S Sheets





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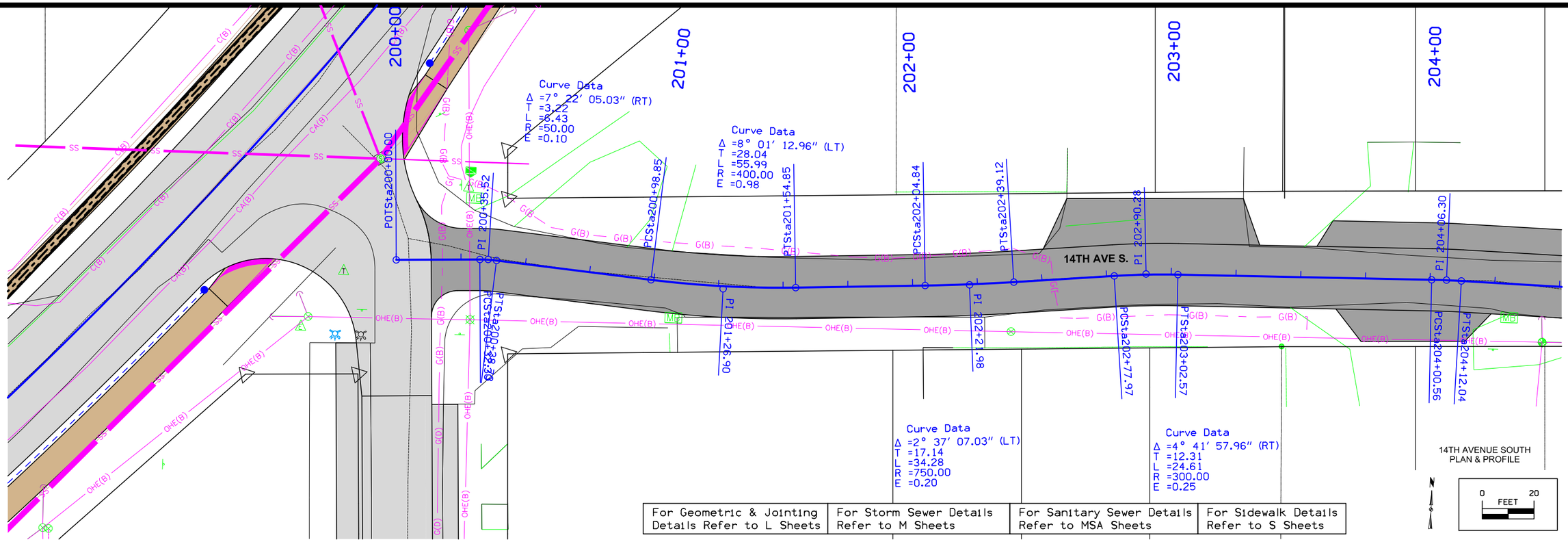

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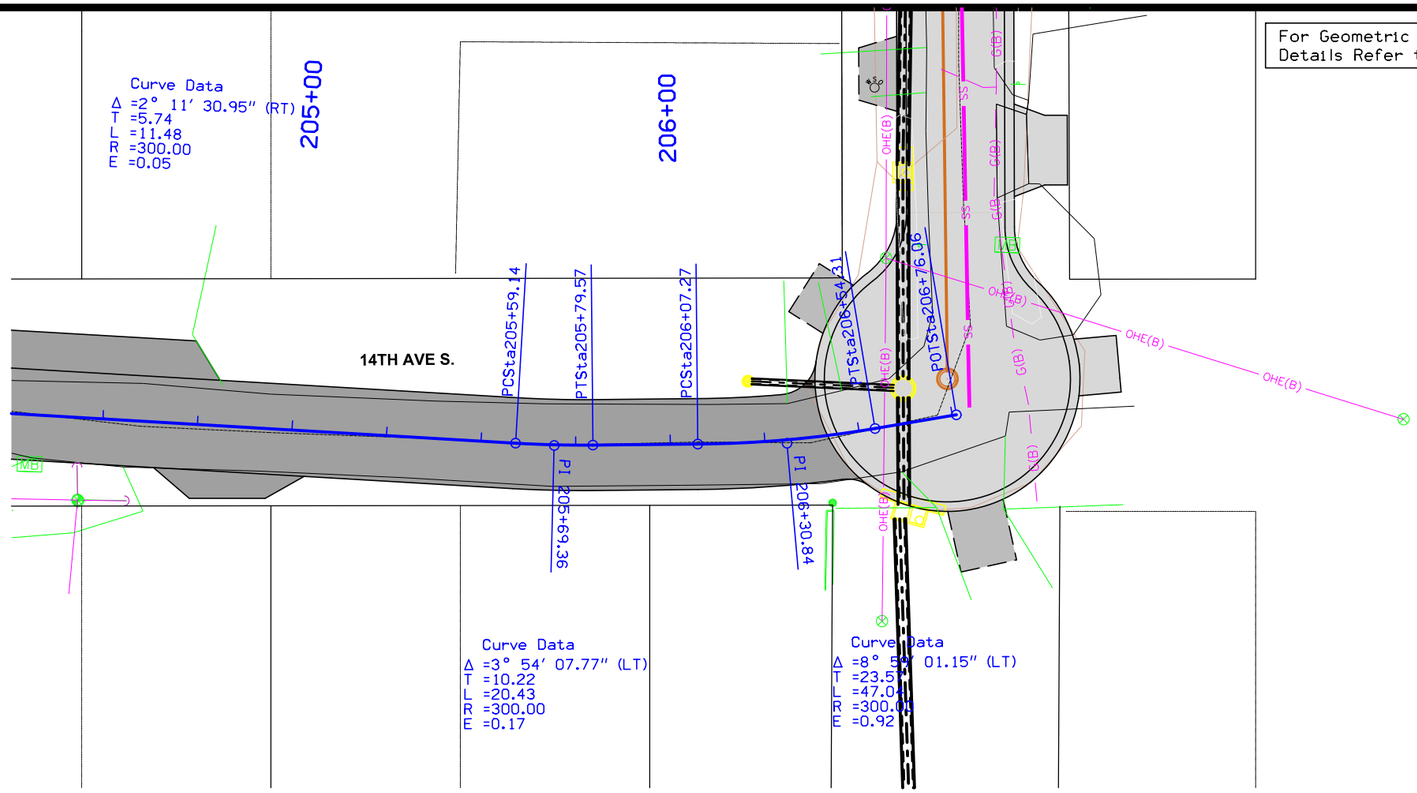
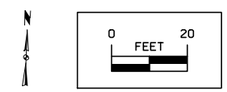
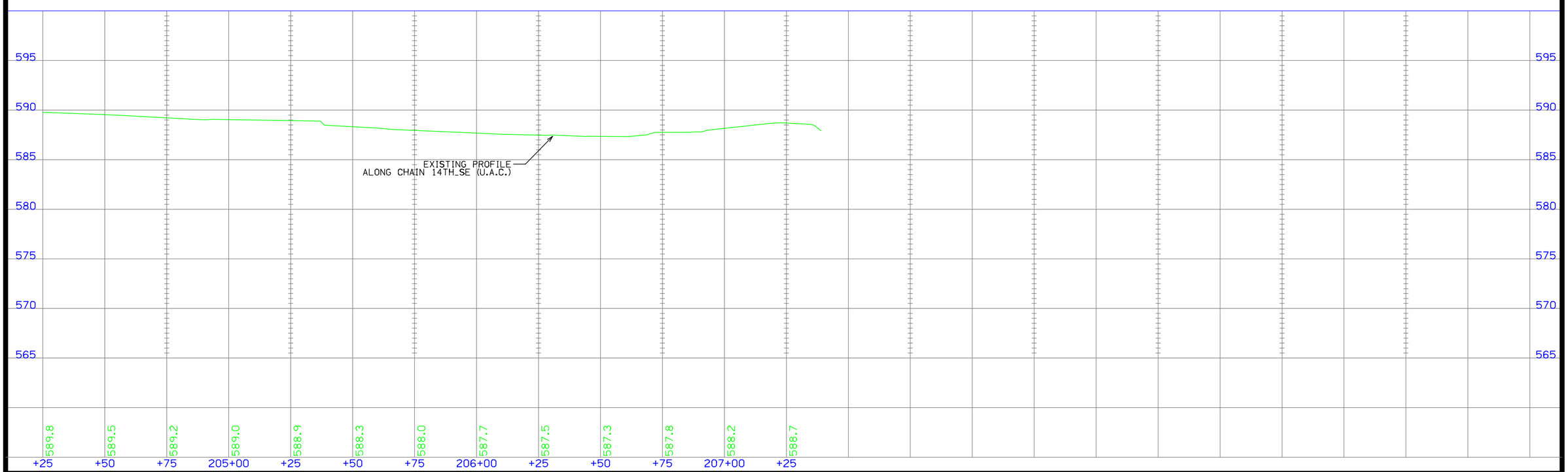
For Geometric & Jointing Details Refer to L Sheets	For Storm Sewer Details Refer to M Sheets	For Sanitary Sewer Details Refer to MSA Sheets	For Sidewalk Details Refer to S Sheets



14TH AVENUE SOUTH
PLAN & PROFILE





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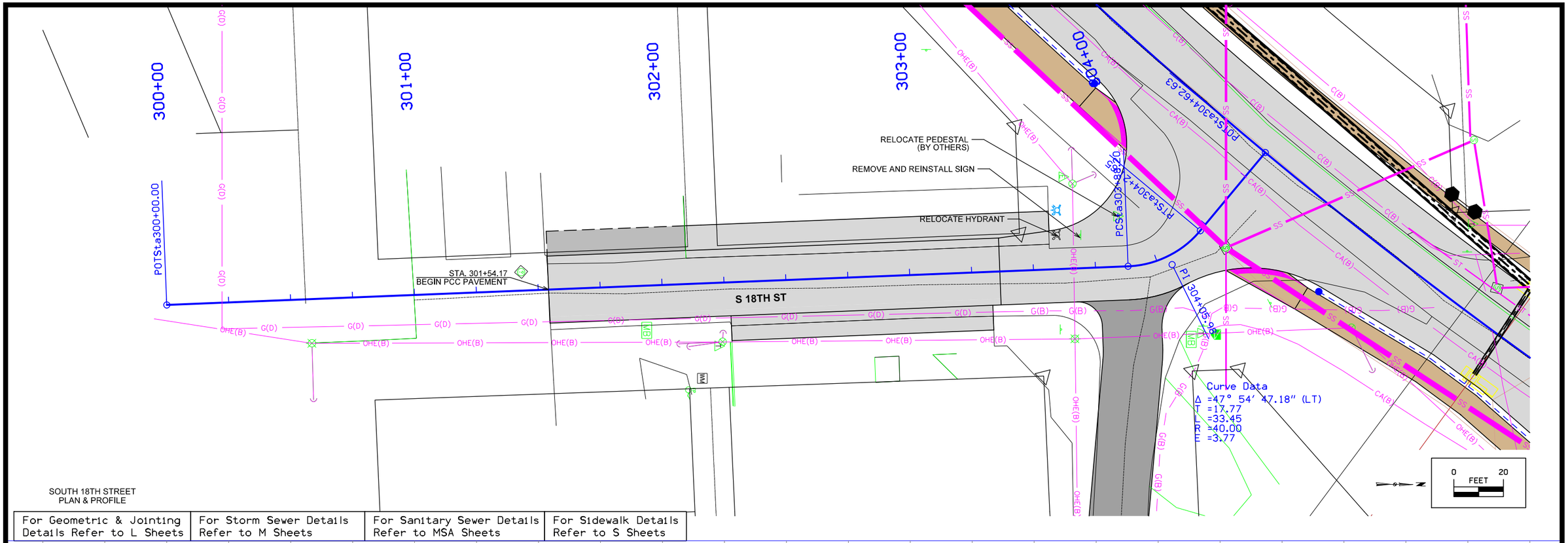
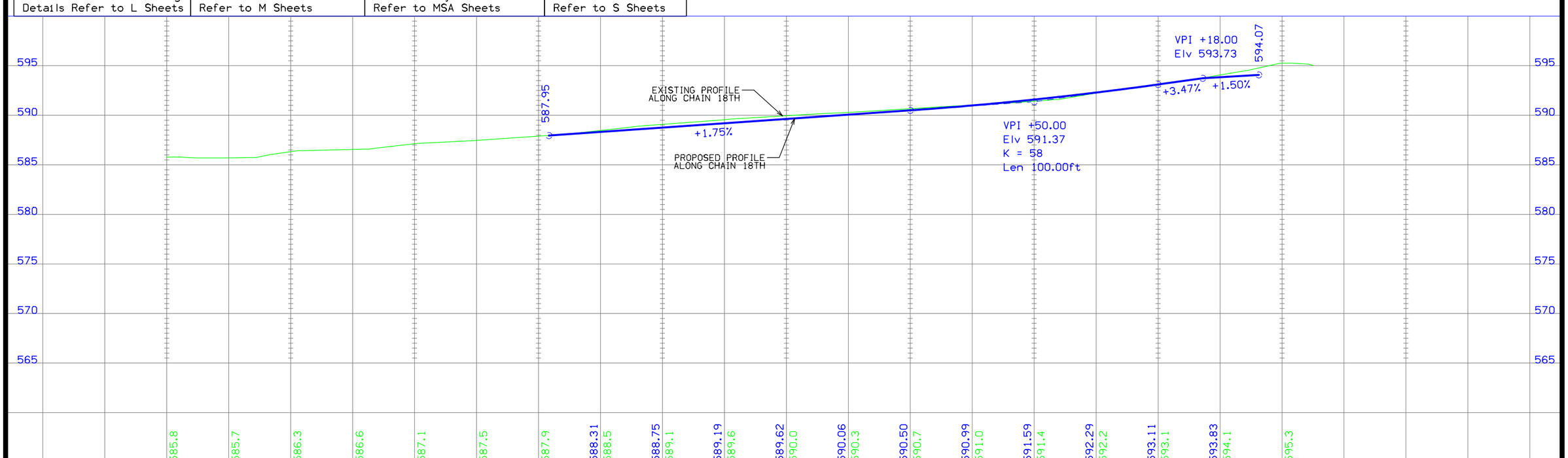


For Geometric & Jointing Details Refer to L Sheets	For Storm Sewer Details Refer to M Sheets	For Sanitary Sewer Details Refer to MSA Sheets	For Sidewalk Details Refer to S Sheets



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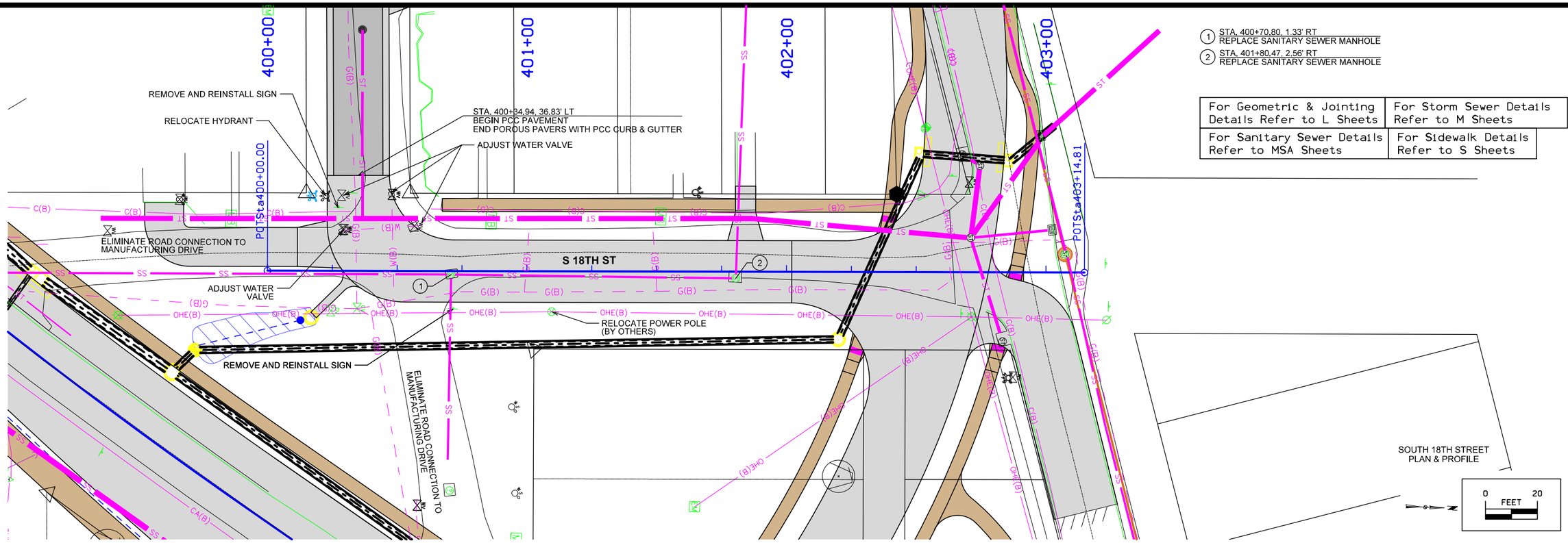

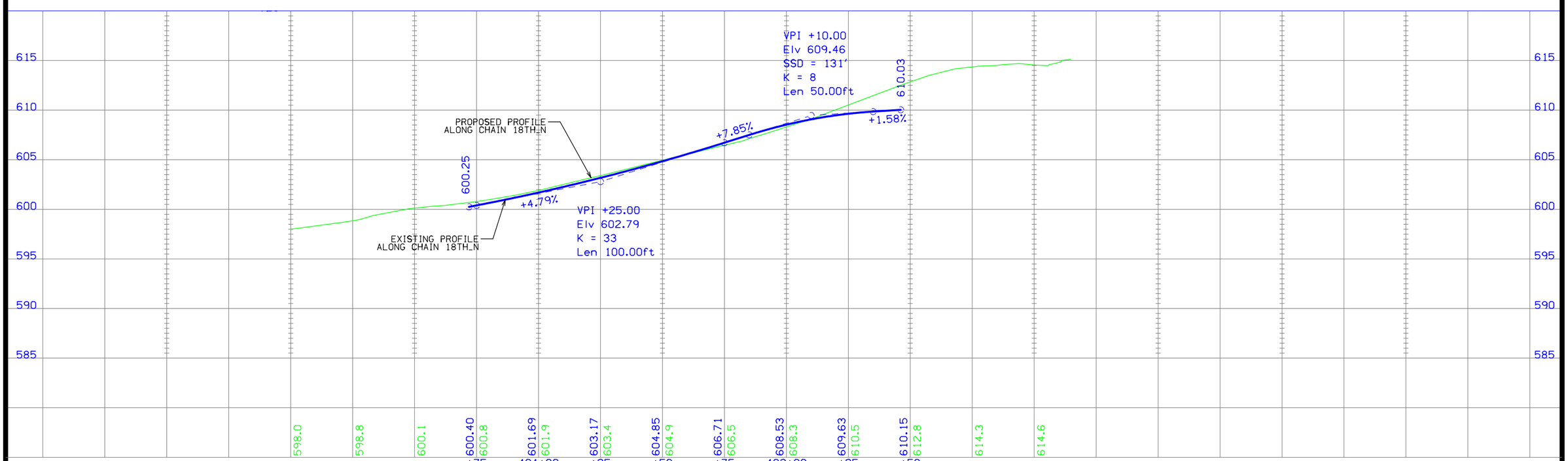

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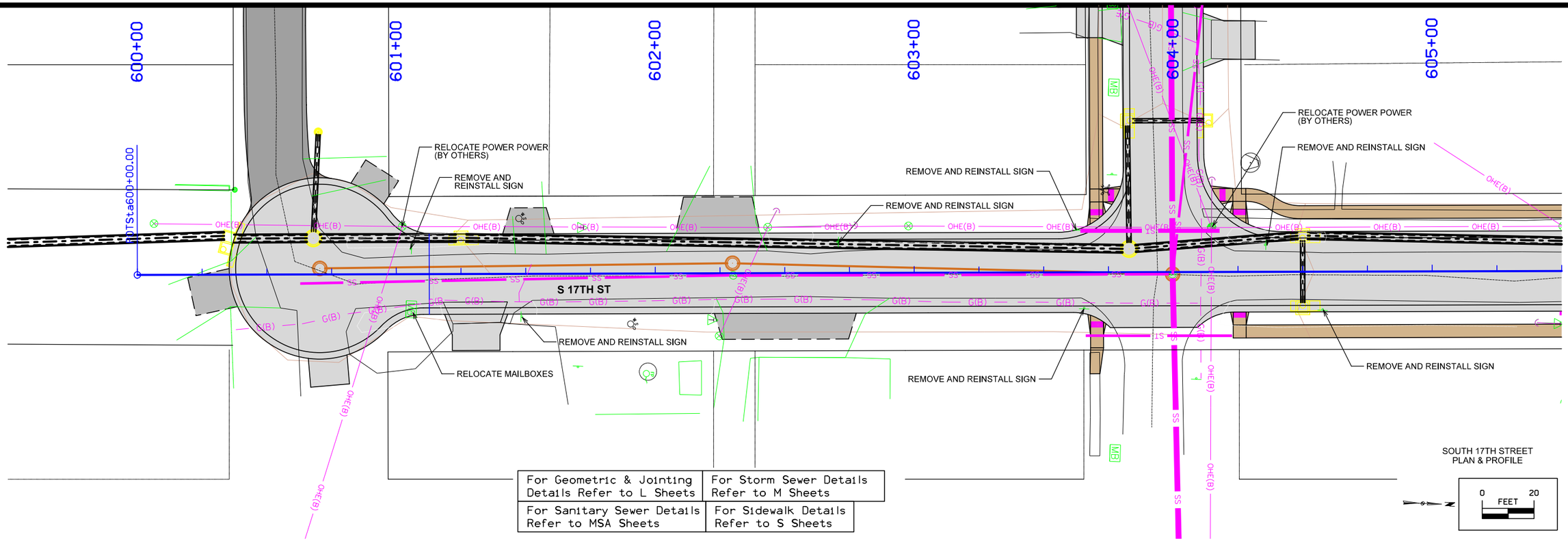
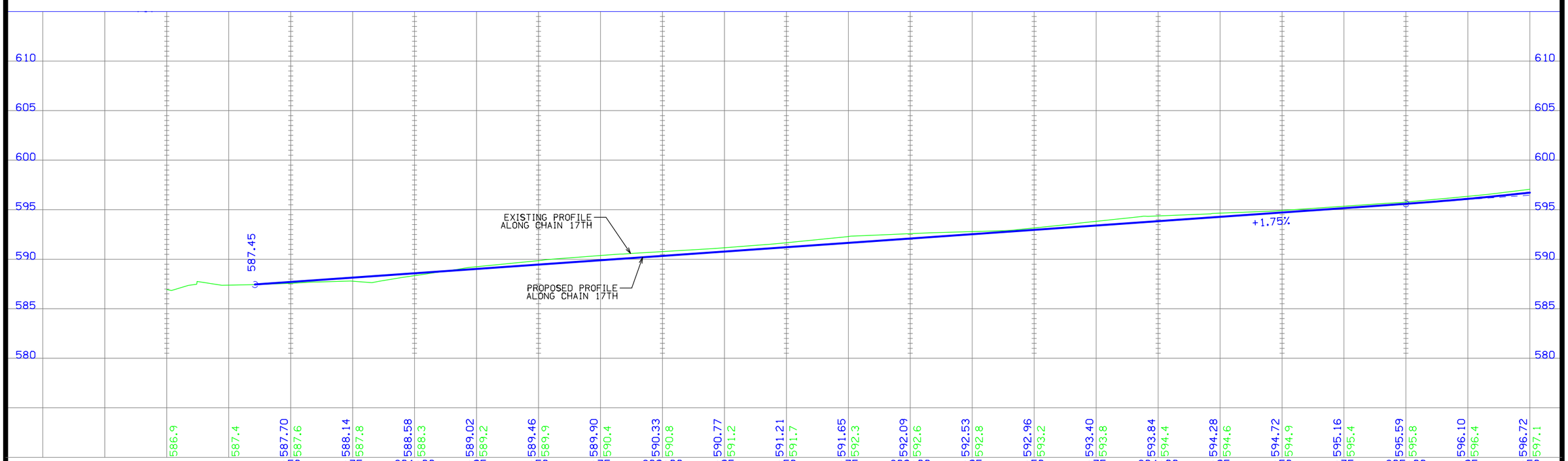
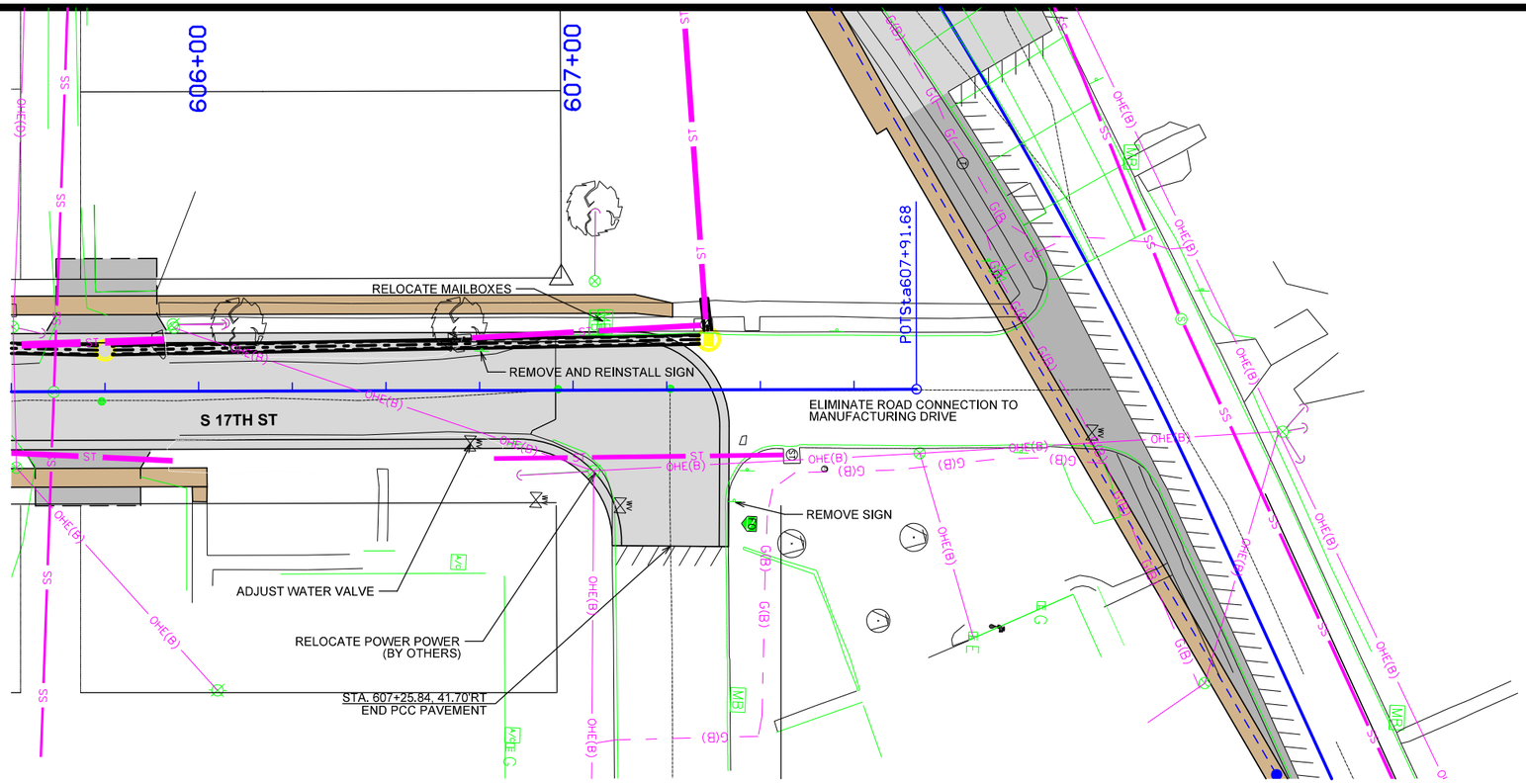




FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER E.13	REVISED

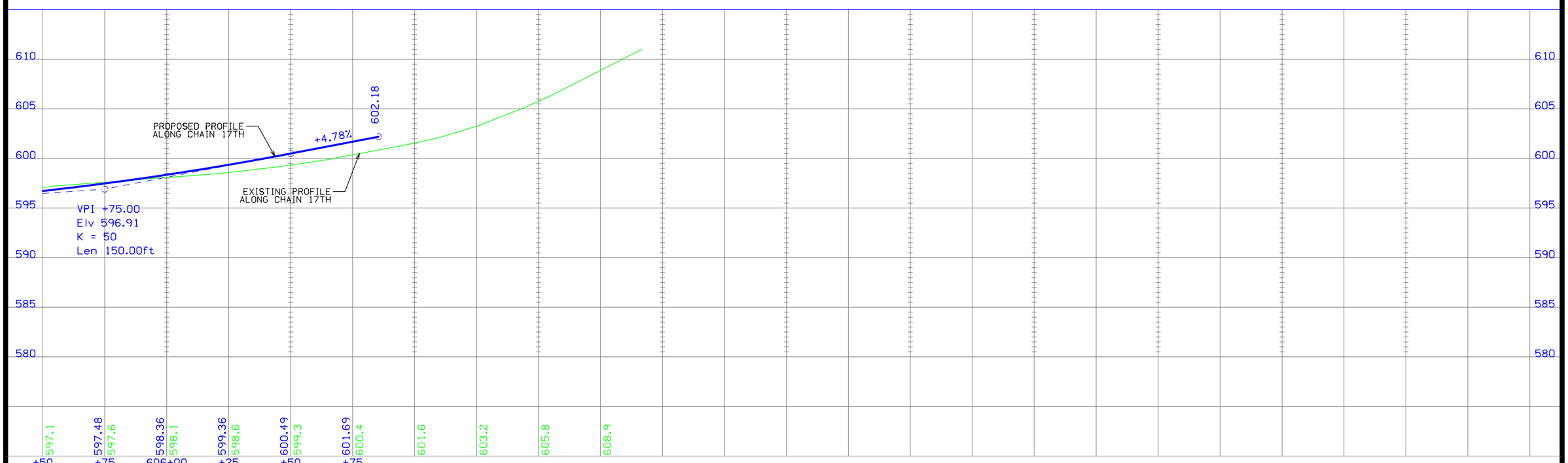
2:06:43 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_E13.dgn

For Geometric & Jointing Details Refer to L Sheets	For Storm Sewer Details Refer to M Sheets
For Sanitary Sewer Details Refer to MSA Sheets	For Sidewalk Details Refer to S Sheets



SOUTH 17TH STREET
PLAN & PROFILE

0 FEET 20



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER E.14	REVISED

2:06:44 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_E14.dgn

500+00
501+00
502+00
503+00
504+00

RELOCATE MAILBOX
RELOCATE MAILBOXES
RELOCATE MAILBOXES

13TH AVE S.

13TH AVENUE SOUTH
PLAN & PROFILE

N

0 20
FEET

For Geometric & Jointing Details Refer to L Sheets	For Storm Sewer Details Refer to M Sheets	For Sanitary Sewer Details Refer to MSA Sheets	For Sidewalk Details Refer to S Sheets

610.43
-0.56%
PROPOSED PROFILE
ALONG CHAIN 13TH_SW

VPI +75.00
Elv 609.73
SSD = 220'
K = 32
Len 140.00ft

-5.00%
EXISTING PROFILE
ALONG CHAIN 13TH_SW

VPI +32.00
Elv 601.88
K = 46
Len 150.00ft

-1.71%

610
605
600
595
590
585
580

611.4
610.7
610.43 610.2 +50
610.29 610.3 +75
610.15 610.2 501+00
609.95 610.0 +25
609.55 609.3 +50
608.95 608.5 +75
608.16 607.3 502+00
607.17 606.1 +25
605.98 605.1 +50
604.77 604.1 +75
603.68 603.6 503+00
602.74 602.6 +25
601.93 601.7 +50
601.26 601.2 +75
600.72 600.7 504+00
600.29 600.2 +25
599.86 599.9 +50

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER E.15	REVISED

2:06:46 PM 7/2/2021 sschellich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_E15.dgn

505+00
506+00
507+00
13TH AVE S.
MANUFACTURING DRIVE
ADJUST WATER VALVE
REMOVE AND REINSTALL SIGN
ELIMINATE ROAD CONNECTION TO MANUFACTURING DRIVE
PDT St.a507+03.35
STA. 506+30.43
BEGIN PCC PAVEMENT
END POROUS PAVERS WITH PCC CURB & GUTTER
RELOCATE POWER POLE (BY OTHERS)
ADJUST WATER VALVE
RELOCATE HYDRANT
REMOVE AND REINSTALL SIGN
ELIMINATE ROAD CONNECTION TO MANUFACTURING DRIVE
ADJUST WATER VALVE

13TH AVENUE SOUTH
PLAN & PROFILE

N

0 FEET 20

For Sanitary Sewer Details Refer to MSA Sheets	For Sidewalk Details Refer to S Sheets
For Geometric & Jointing Details Refer to L Sheets	For Storm Sewer Details Refer to M Sheets

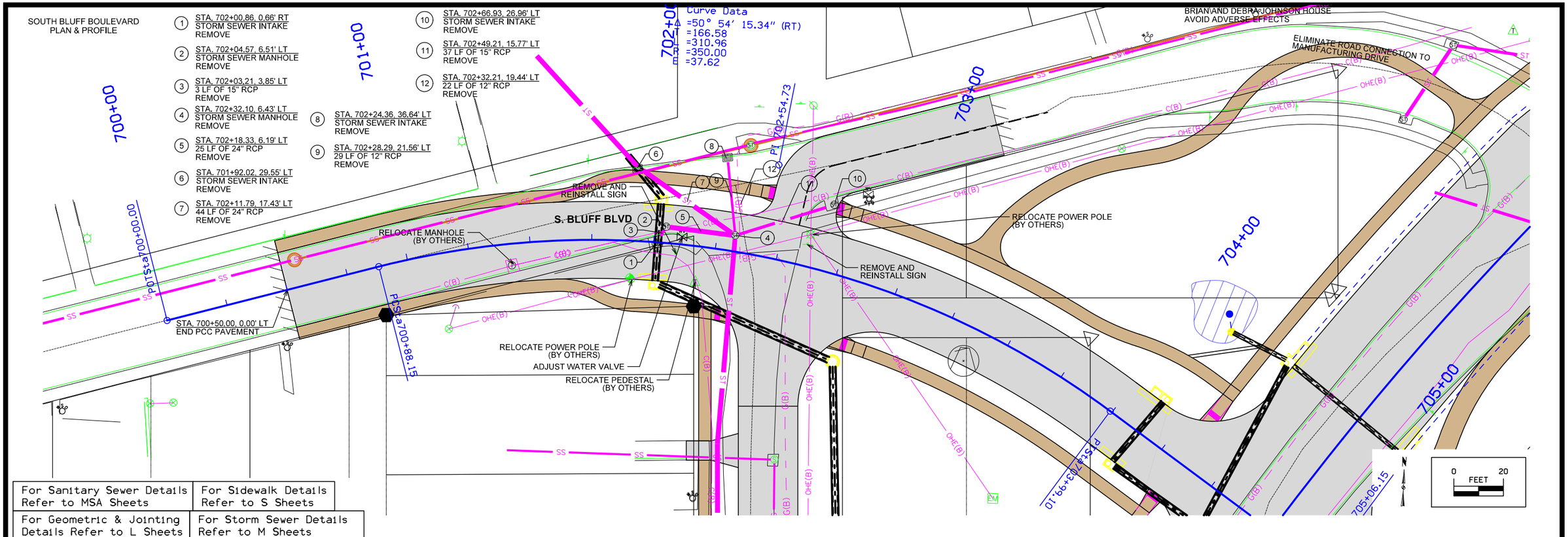
610
605
600
595
590
585
580

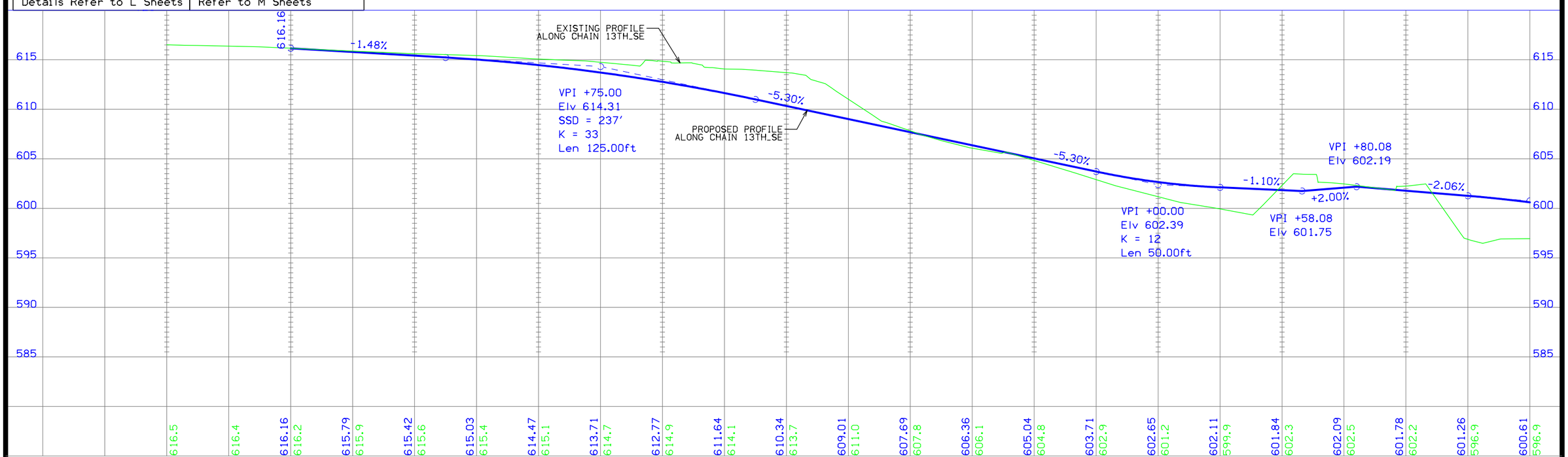
EXISTING PROFILE ALONG CHAIN 13TH_SW
PROPOSED PROFILE ALONG CHAIN 13TH_SW
-1.71%
+0.50%
598.55
VPI +50.00
Elv 598.15
K = 68
Len 150.00ft

599.9	599.43	599.05	598.76	598.56	598.46	598.44	598.52	599.3	599.3	598.8
599.5	599.5	599.5	599.5	599.5	599.1	599.2	599.4			
+50	+75	505+00	+25	+50	+75	506+00	+25			

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER E.16	REVISED

2:06:47 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_E16.dgn





FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER E.17	REVISED

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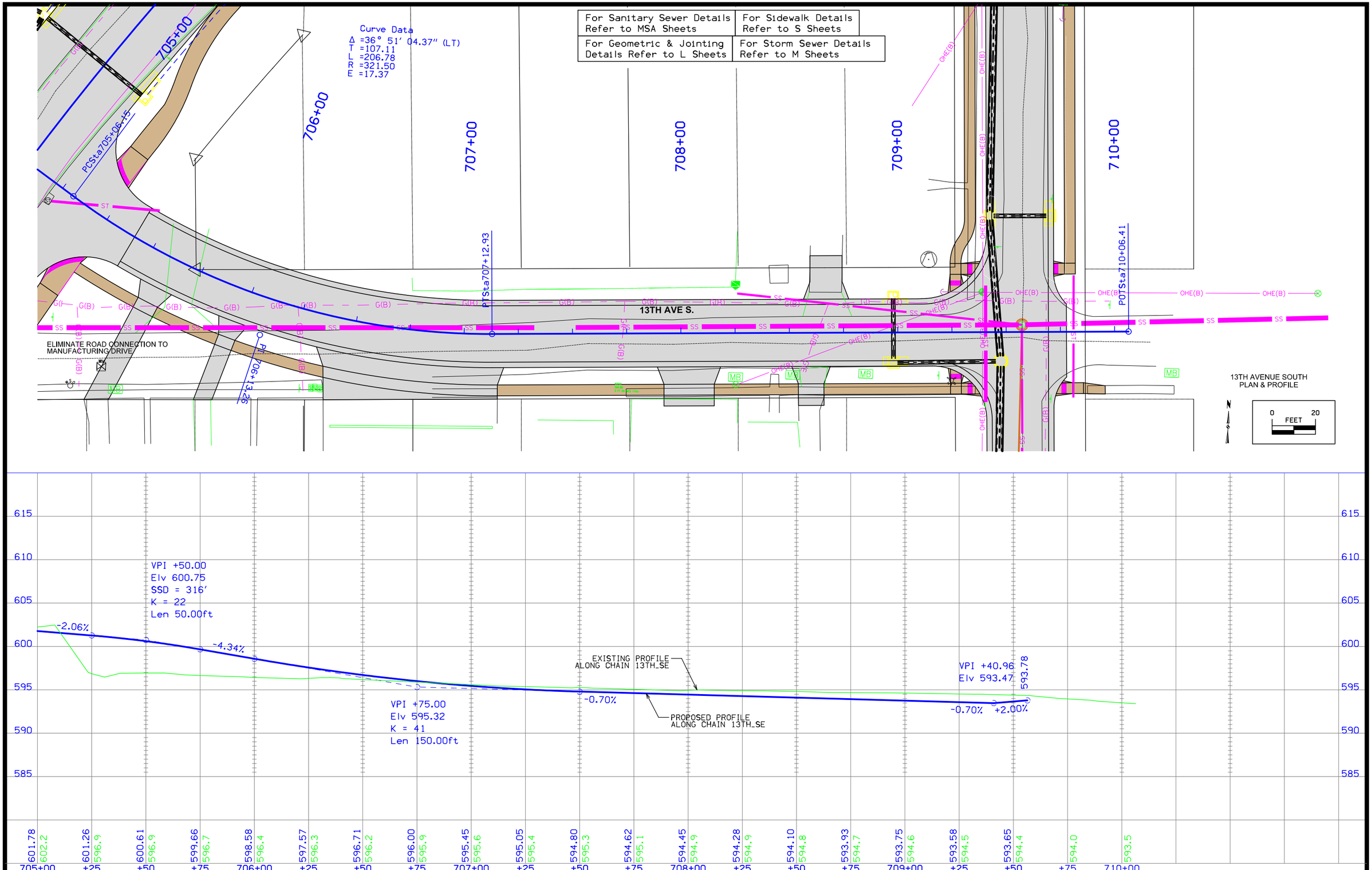

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER E.18	REVISED

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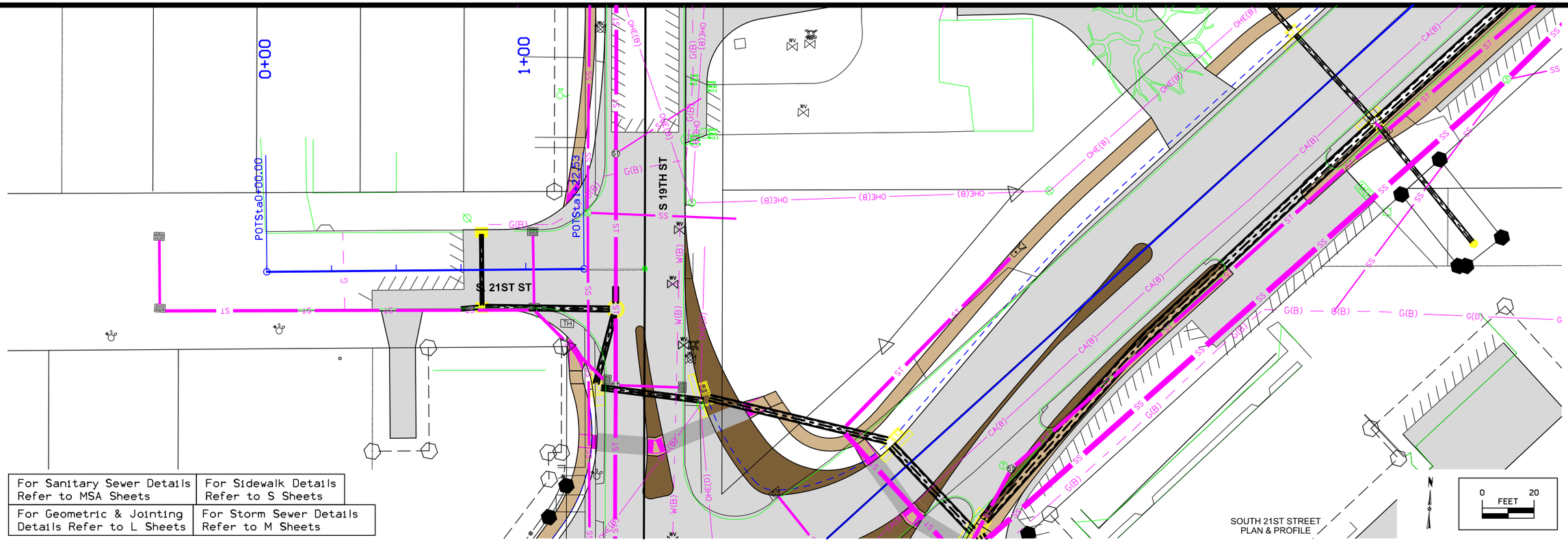
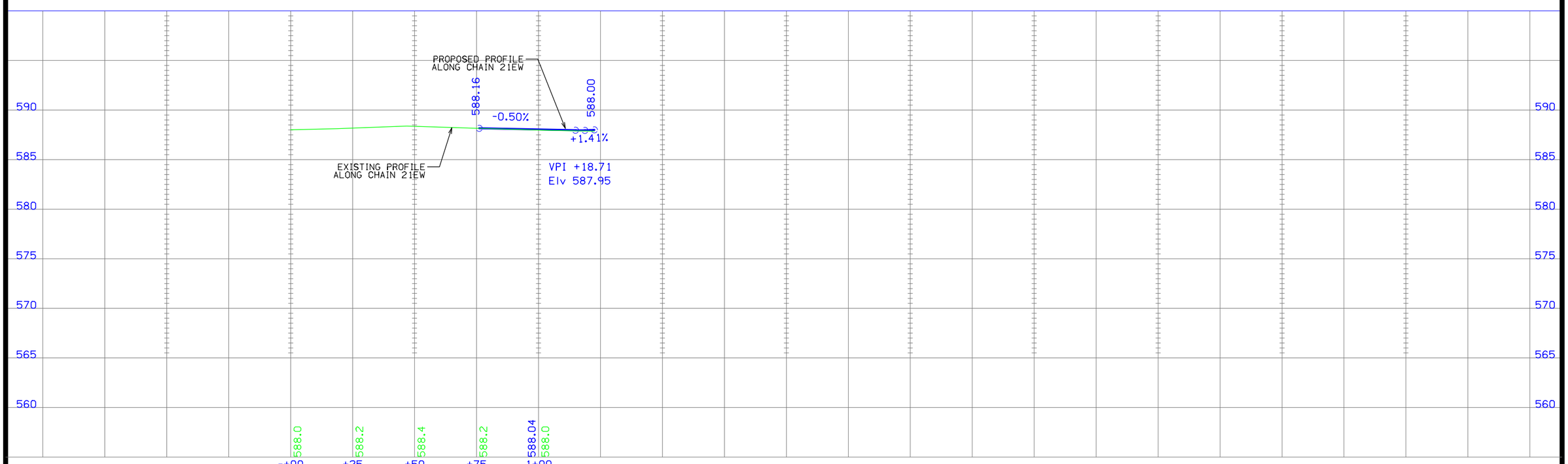


For Sanitary Sewer Details Refer to MSA Sheets	For Sidewalk Details Refer to S Sheets
For Geometric & Jointing Details Refer to L Sheets	For Storm Sewer Details Refer to M Sheets



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER E.19	REVISED

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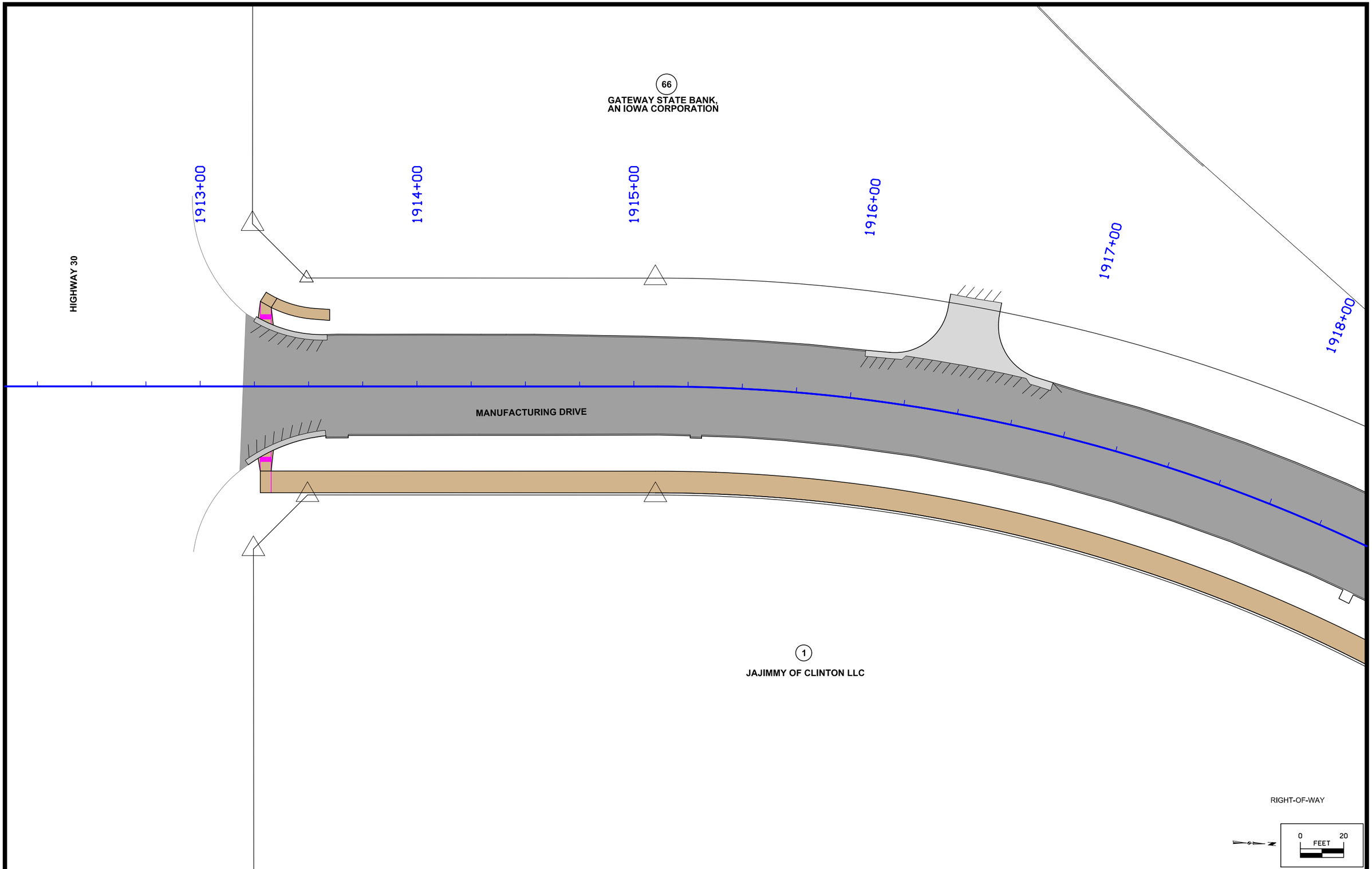

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER H.1	REVISED

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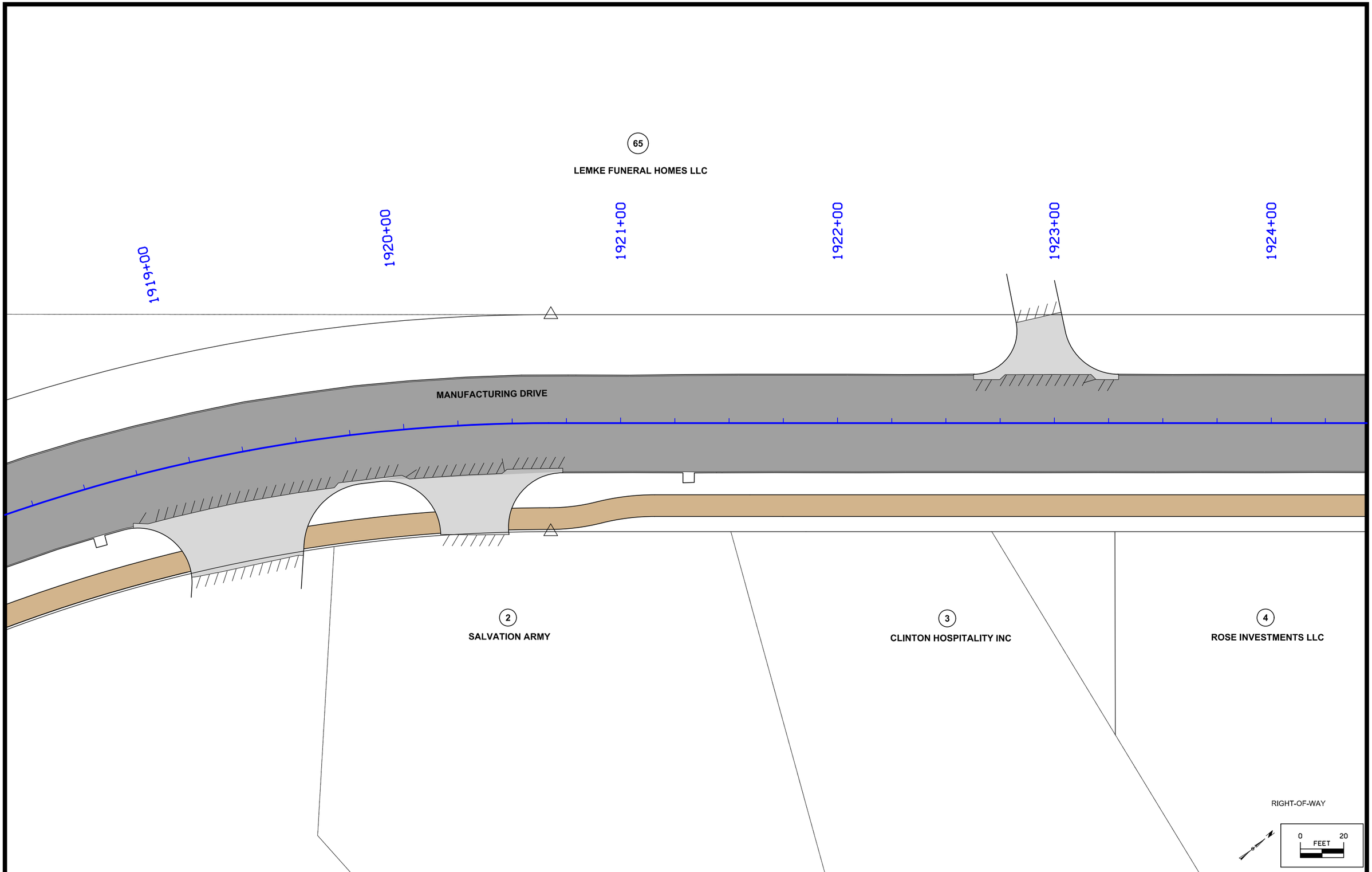

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER H.2	REVISED

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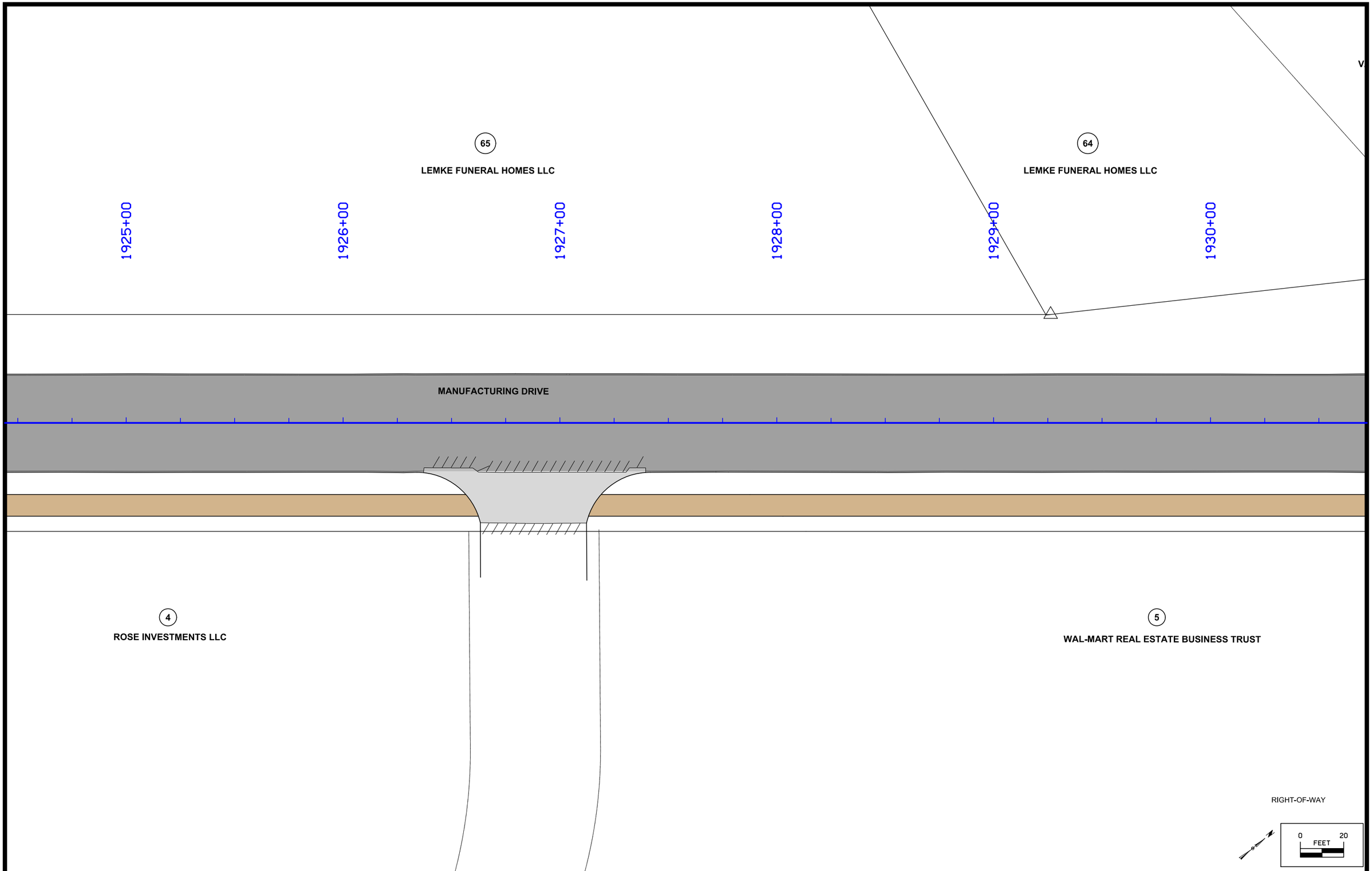

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER H.3	REVISED

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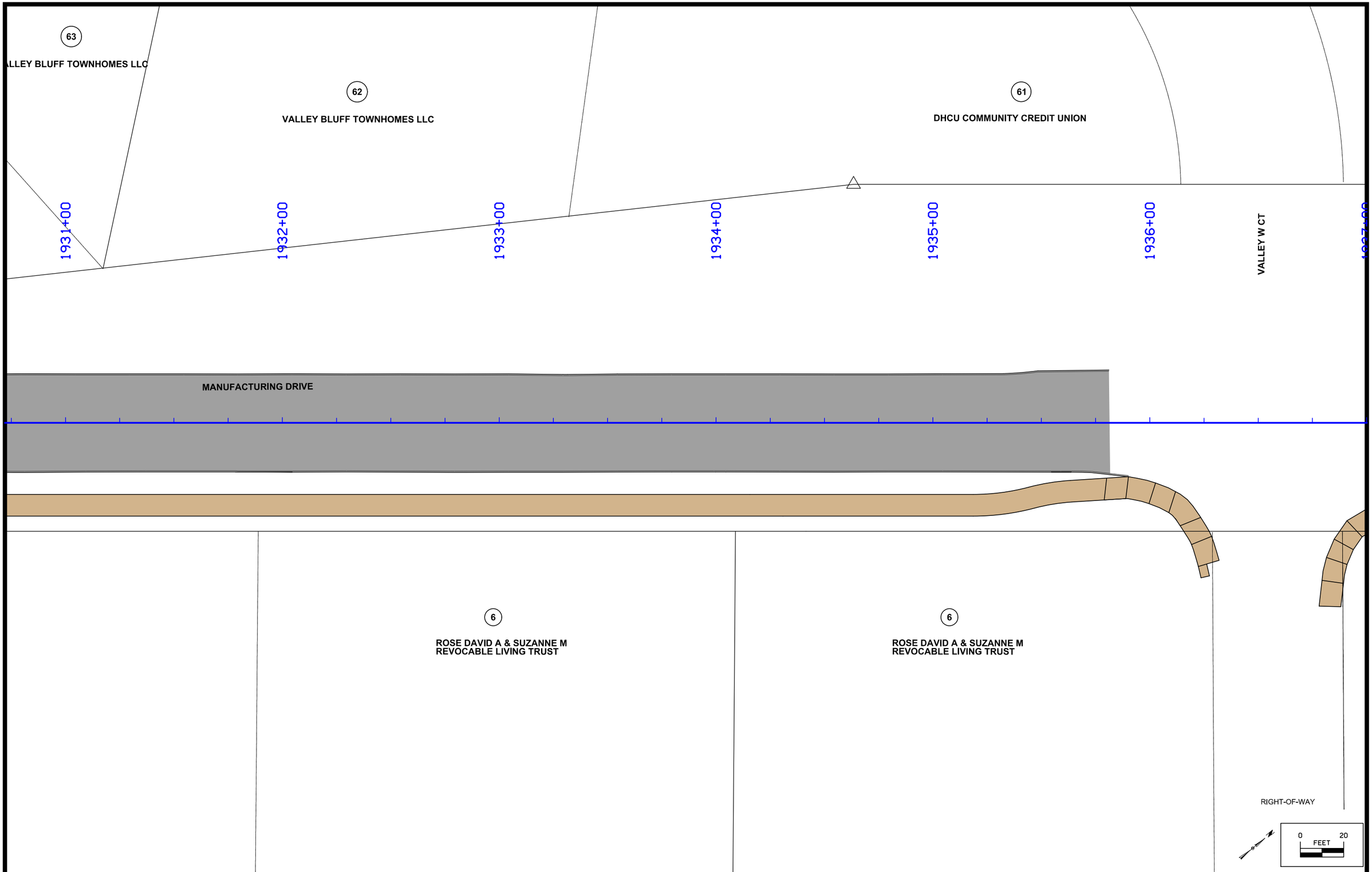
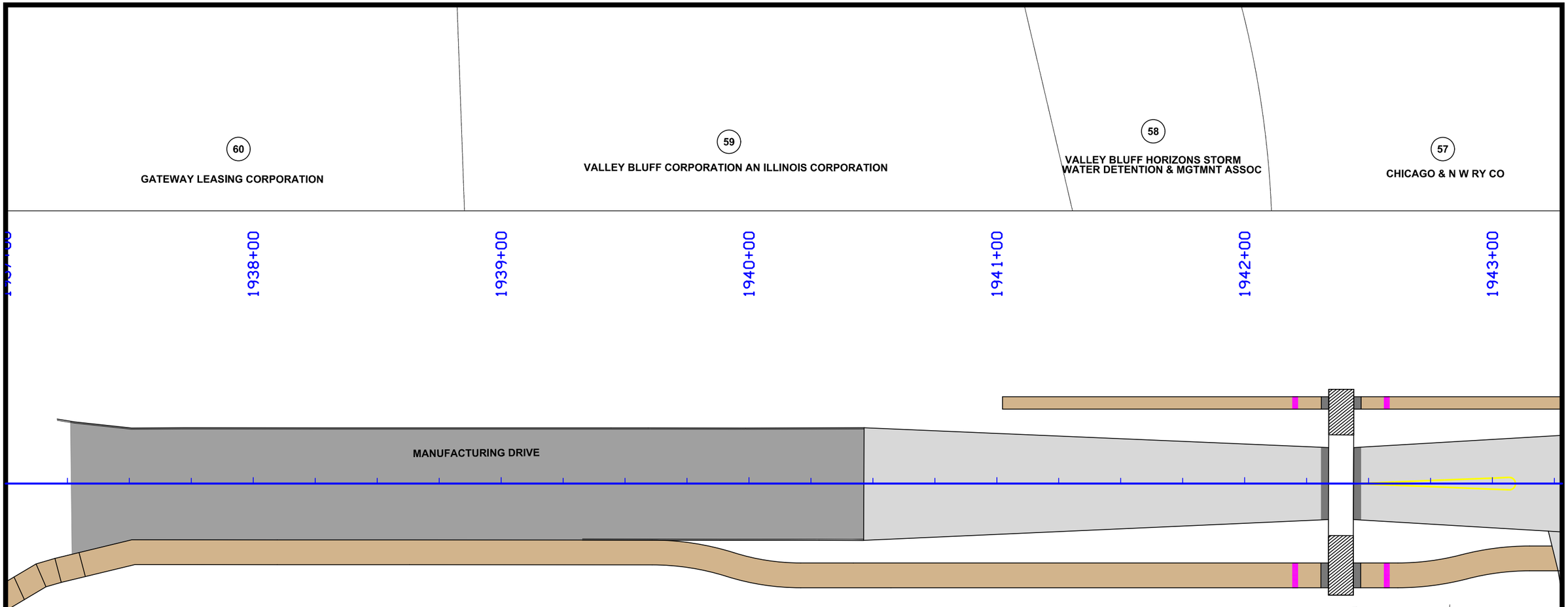


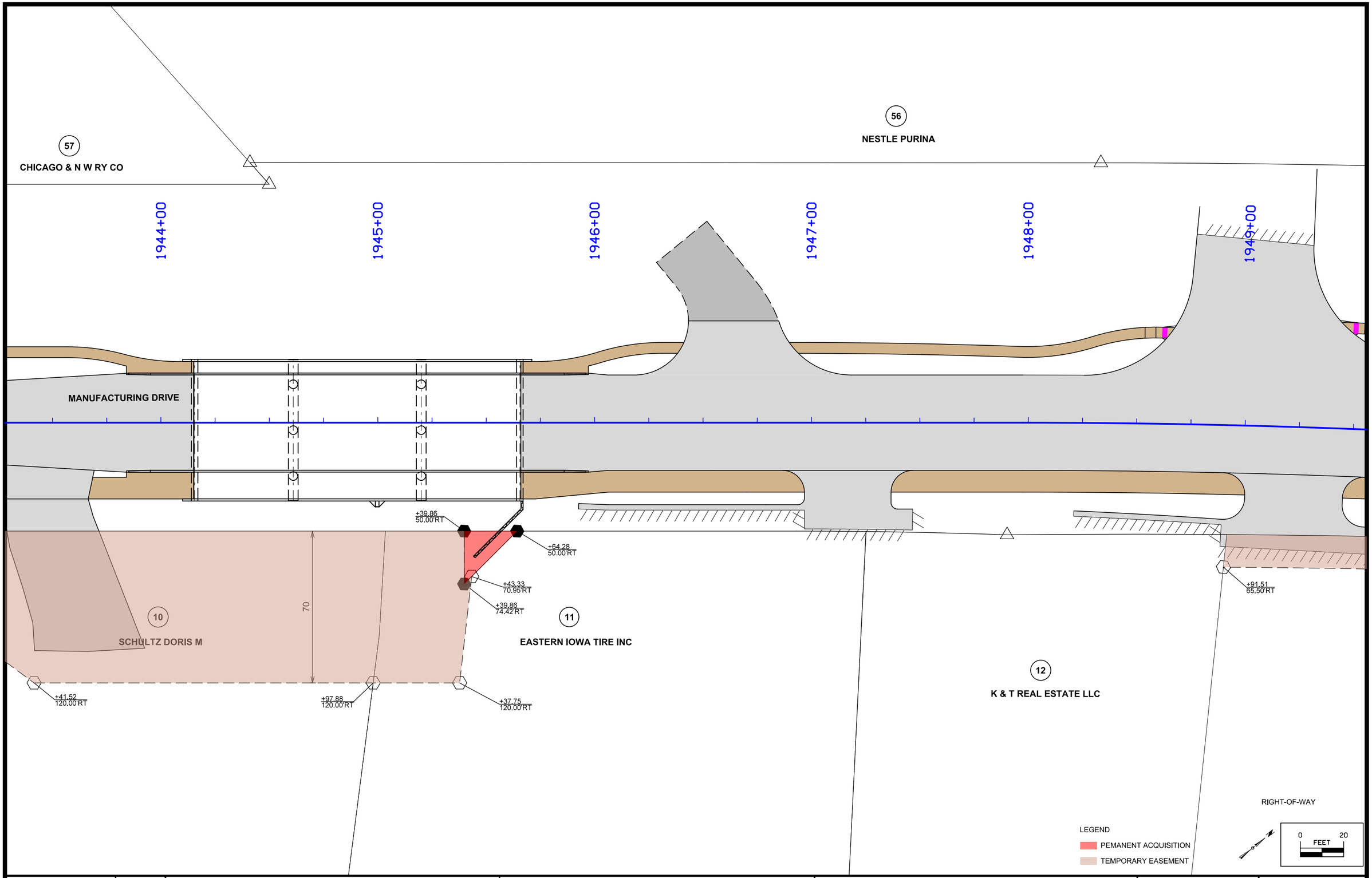
FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER H.4	REVISED

2:08:52 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_H04.dgn



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER H.5	REVISED

2:08:54 PM 7/2/2021 sschellch P:\30618011-001\06-Drawings\Civil\Dgns\30618011_H05.dgn



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER H.6	REVISED

2:08:55 PM 7/27/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_H06.dgn

56
NESTLE PURINA

1950+00
1951+00
1952+00
1953+00
1954+00
1955+00

MANUFACTURING DRIVE
MANUFACTURING DRIVE

+86.73
63.61'RT

13
K & T REAL ESTATE LLC

+46.23
69.21'RT

+07.70
66.14'RT

+07.70
99.84'RT

+58.39
53.85'RT

+55.04
59.68'RT

+21.61
53.85'RT

14
END OF THE ROAD LLC

+31.94
99.84'RT

+09.80
138.35'RT

+43.69
138.35'RT

15
CITY OF CLINTON

+20.39
107.68'RT

LEGEND
PEMANENT ACQUISITION
TEMPORARY EASEMENT

RIGHT-OF-WAY

0 20
FEET

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER H.7	REVISED

2:08:57 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_H07.dgn

55
CITY OF CLINTON

54
JEUCK PHILIP JR & M

1956+00
1957+00
1958+00
1959+00
1960+00
1961+00
1962+00

MANUFACTURING DRIVE

40
16
CLAUSEN BROTHERS LLC

17
SMITH FAMILY PARTNERSHIP LLC

25
20

+82.64
92.04 RT

+99.49
106.38 RT

+78.95
80.19 RT

+78.60
75.20 RT

18
LASHELLE JAMES L II

+81.83
132.29 RT

RIGHT-OF-WAY

LEGEND
PEMANENT ACQUISITION
TEMPORARY EASEMENT

0 20
FEET

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER H.8	REVISED

2:08:58 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_H08.dgn

54

JEUCK PHILIP JR & M

53

APMS LC SERIES 24 AN IOWA LIMITED LIABILITY COMPANY

1963+00

1964+00

1965+00

1966+00

1967+00

1968+00

+31.99
129.48'LT

+01.13
111.52'LT

+99.21
94.99'LT

+11.66
66.00'LT

10

+87.11
56.00'LT

MANUFACTURING DRIVE

+44.41
51.00'RT

+49.56
69.70'RT

+38.36
71.00'RT

S 21ST ST

+56.89
71.00'RT

20

19

ROSE DAVID A & SUZANNE M
REVOCABLE LIVING TRUST

RIGHT-OF-WAY

LEGEND

PEMANENT ACQUISITION

TEMPORARY EASEMENT

0 20
FEET

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER H.9	REVISED

2:09:00 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_H09.dgn

53

APMS LC SERIES 24 AN IOWA LIMITED LIABILITY COMPANY

52

APMS LC SERIES 7

1969+00

1970+00

1971+00

1972+00

1973+00

1974+00

+97.22
66.00'LT

10

MANUFACTURING DRIVE

+92.09
51.00'RT

+32.81
51.00'RT

+58.47
51.00'RT

10

+08.55
61.00'RT

+08.48
71.00'RT

+82.90
61.00'RT

20

12

+52.73
51.00'RT

+14.45
71.00'RT

+12.73
63.00'RT

+98.47
63.00'RT

+41.21
71.00'RT

+41.21
91.00'RT

40

21

EASTERN IOWA COMMUNITY COLLEGE DISTRICT

20

LARSON LUANN

RIGHT-OF-WAY

LEGEND

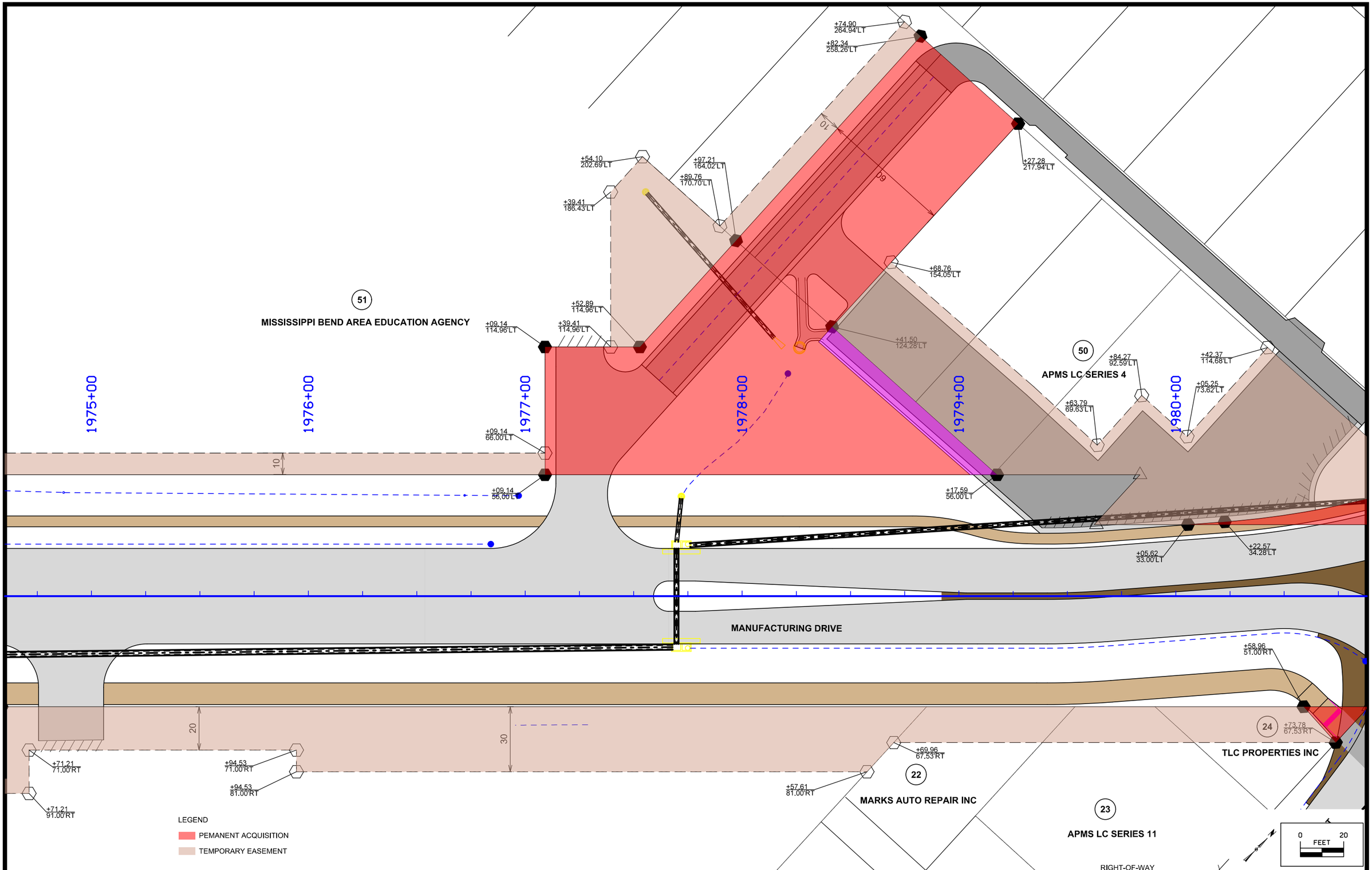
PEMANENT ACQUISITION

TEMPORARY EASEMENT

0 20
FEET

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER H.10	REVISED

2:09:01 PM 7/2/2021 sschellich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_H10.dgn



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER H.11	REVISED

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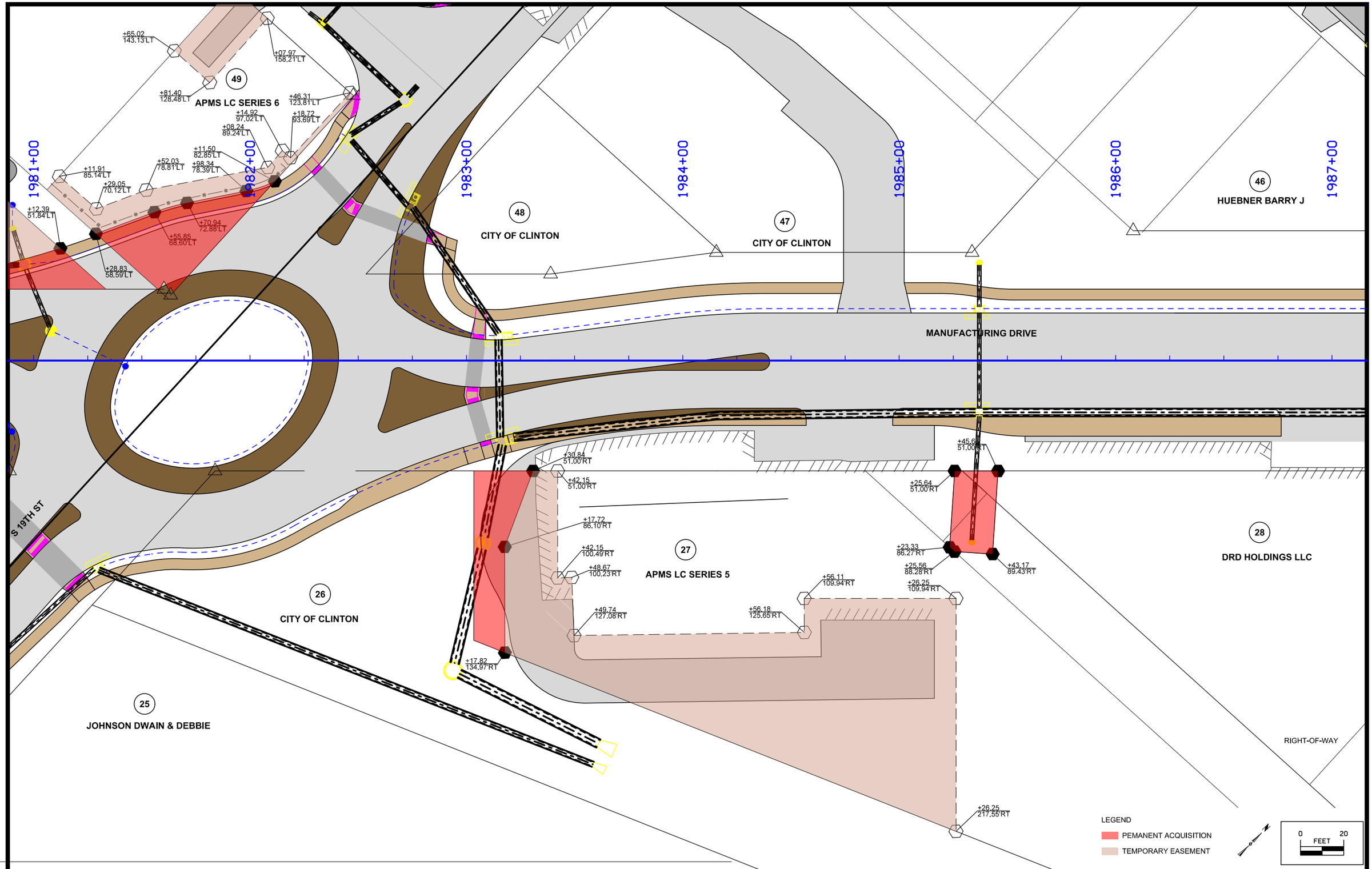

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER H.12	REVISED

2:09:04 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_H12.dgn

43
LIBBERTON MATTHEW E

45
SAXBY JEFFREY W & CHERI L

44
LIBBERTON MATTHEW E

1988+00
1989+00
1990+00
1991+00
1992+00
1993+00

14TH AVE S.

+68.90
34.01 LT

+80.79
34.01 LT

MANUFACTURING DRIVE

31
SNODGRASS STEVEN A & SANDRA K

29
PARADOX LLC

S 18TH ST

30
LEIBERT JAMES W

14TH AVE S.

LEGEND
PEMANENT ACQUISITION
TEMPORARY EASEMENT

RIGHT-OF-WAY

0 20
FEET

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER H.13	REVISED

2:09:05 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_H13.dgn

42
CITY OF CLINTON

41
CITY OF CLINTON

40
VOGEL BRIAN L & LORIE J

39
THOMPSON PAUL R & MARY ANN

34
CITY OF CLINTON A MUNICIPAL CORPORATION

32
DEVRIES RICKY L & WENDI A

33
DEVRIES RICKY L & WENDI A

1994+00
1995+00
1996+00
1997+00
1998+00
1999+00

S. BLUFF BLVD
MANUFACTURING DRIVE
13TH AVE S.
COLLEGE AVE
BLUFF BLVD

LEGEND
PEMANENT ACQUISITION
TEMPORARY EASEMENT

RIGHT-OF-WAY

0 FEET 20

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER H.14	REVISED

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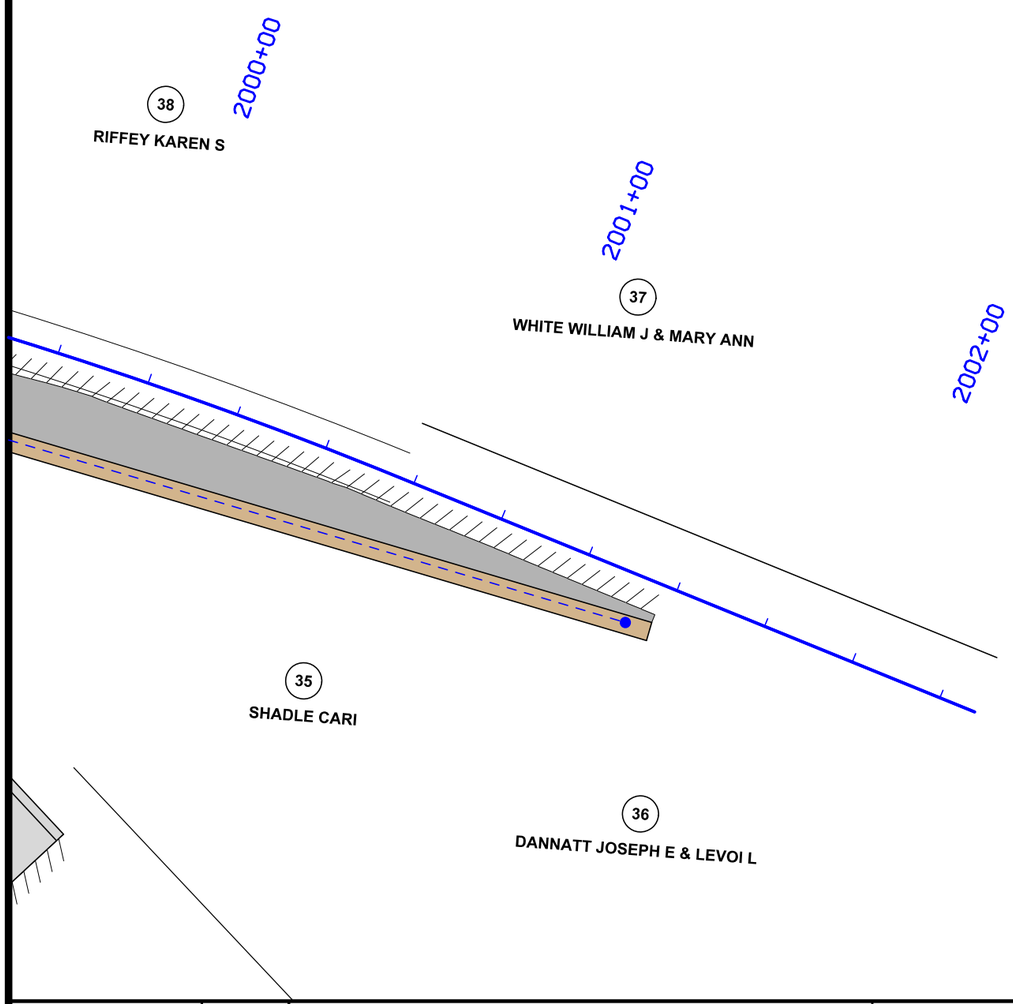

RIGHT-OF-WAY

LEGEND

PEMANENT ACQUISITION

TEMPORARY EASEMENT

0 FEET 20

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER H.15	REVISED

2:09:08 PM 7/2/2021 sschellch P:\30618011-001\06-Drawings\Civil\Dgns\30618011_H15.dgn

68
WILSON GARY L & RHONDA SUE

69
HILBERT ROBERT F & TRAVIS-HILBERT LISA A
AS CO-TRUSTEES

70
SHIRLEY FRANK

71
CLARK LISA A

72
FISHER RONALD E & MARLYSS

49
APMS LC SERIES 6

67
MISSISSIPPI BEND AREA EDUCATION AGENCY

50
APMS LC SERIES 4

51
MISSISSIPPI BEND AREA EDUCATION AGENCY

903+00
904+00
905+00
54+00
1982+00
1981+00
53+00
1980+00
1979+00
52+00
1978+00
51+00
1977+00
902+00
901+00
900+00
00+008
00+108

+46.03 (ALLEY)
-28.78'LT
+47.49 (ALLEY)
-19.19'LT
+97.22 (ALLEY)
11.04'RT
+51.85 (ALLEY)
10.47'RT
+51.85 (ALLEY)
65.81'RT
+23.56 (ALLEY)
65.81'RT
+23.76 (ALLEY)
96.58'RT
+66.90 (ALLEY)
42.79'RT
+26.30 (ALLEY)
-27.00'LT
+26.33 (ALLEY)
-17.00'LT
+26.13 (ALLEY)
-74.91'LT
+26.53 (ALLEY)
42.51'RT
+04.22 (ALLEY)
-74.91'LT
+98.63 (ALLEY)
137.67'RT
+60.22 (ALLEY)
-17.00'LT
+51.18 (ALLEY)
-27.00'LT
+30.49 (FOCUS DR)
16.00'RT
+79.45 (FOCUS DR)
16.00'RT
+89.45 (FOCUS DR)
16.00'RT

S 19TH ST
MANUFACTURING DRIVE

LEGEND
PERMANENT ACQUISITION
TEMPORARY EASEMENT

RIGHT-OF-WAY

N

0 20
FEET

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER H.16	REVISED

2:09:09 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_H16.dgn

91
ROGGENDORF DAVID
90
BRICE MARK N & MARY A
105+00
89
LOVELL DORIS ANN & JACK D
88
DRD HOLDINGS LLC
106+00
87
DRD HOLDINGS LLC
107+00
86
LEONARD GEORGE E & JUDITH A
108+00
85
LETCHER WAYNE A & MARJORIE E
109+00
84
CAMPBELL PAUL M & KYTE CARRIE A
83
TINGLEY SPENSE
104+00
58+00
14TH AVE S.
103+00
102+00
101+00
100+00
73
BROADRICK MATTHEW P & JULIE A
74
NOBLE GARY D
75
SKIFF RICKY J & MARGARET J
76
KNOTT ANNE
77
BENSON REBECCA L
57+00
S 19TH ST
56+00
+76.85 (19TH)
-35.00'LT
133
CARDER BRANDON L & JENNIFER L
132
COOK RONALD G 1/2 INT & COOK MARGARET S 1/2 INT
131
POWELL MARTY D & ERNST DOREENA
+01.91 (19TH)
-35.00'LT
55+00
47
CITY OF CLINTON
1984+00
LEGEND
PERMANENT ACQUISITION
TEMPORARY EASEMENT
RIGHT-OF-WAY
N
0 20
FEET

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER H.17	REVISED

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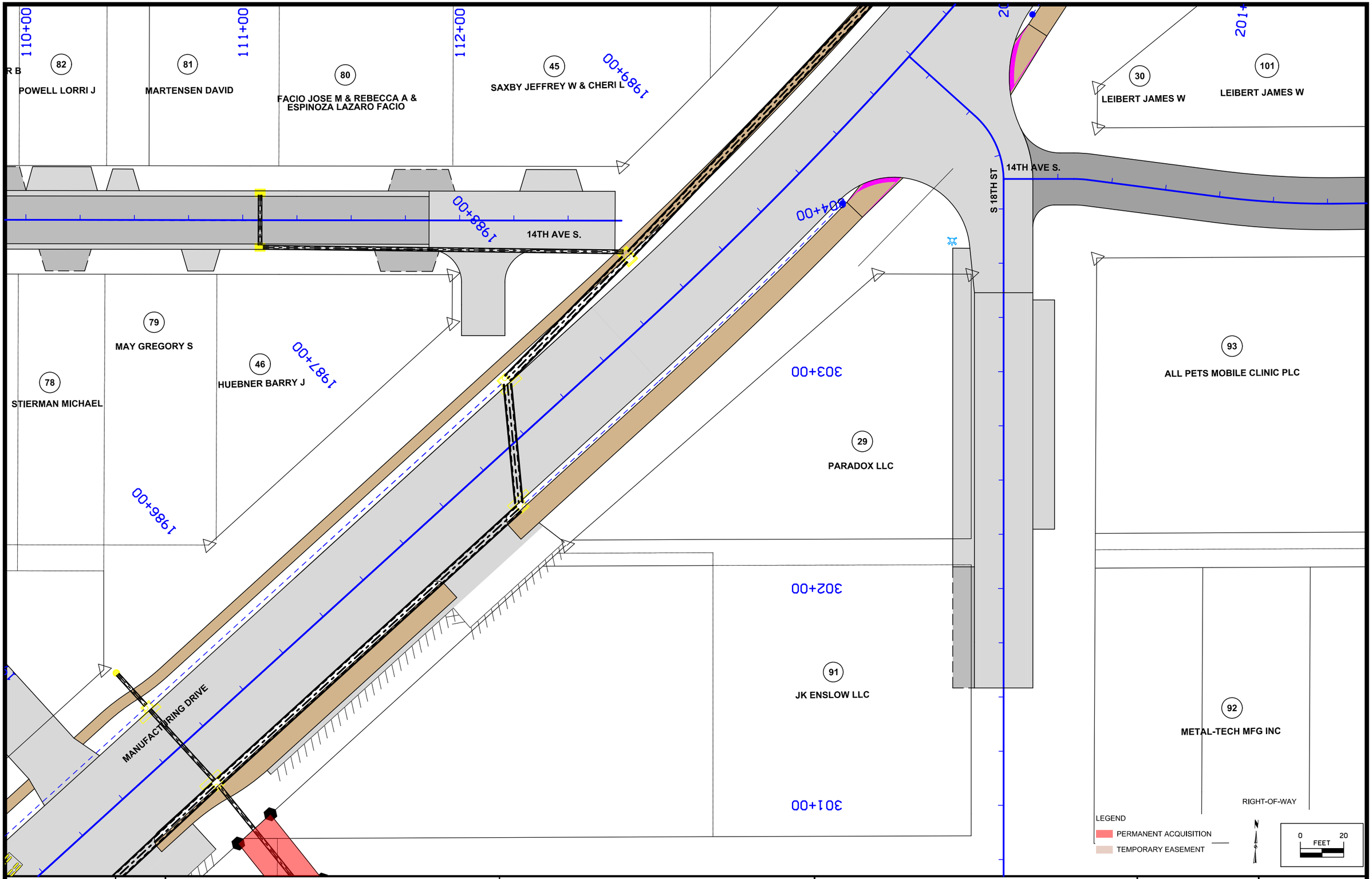

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER H.18	REVISED

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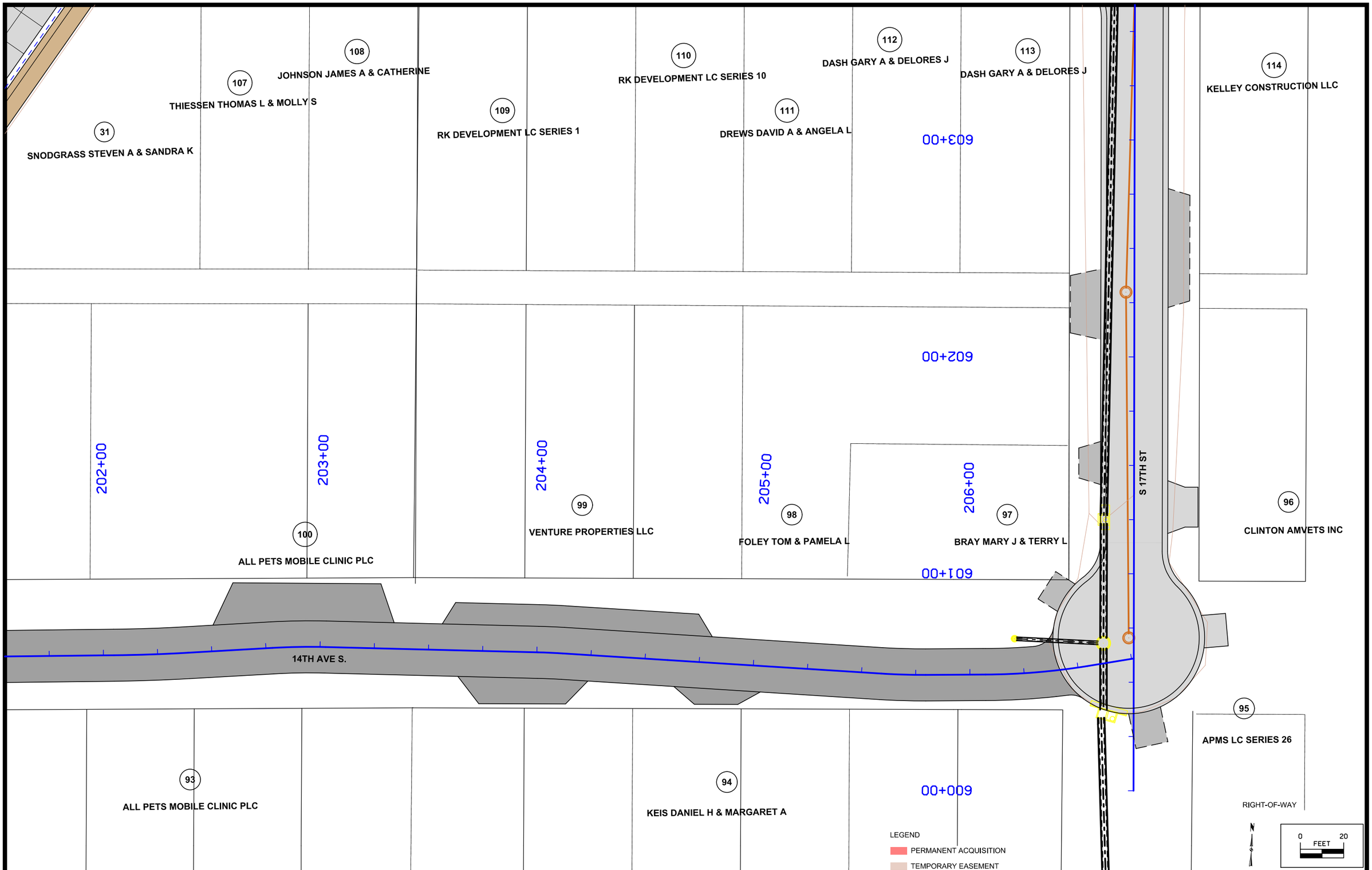

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER H.19	REVISED

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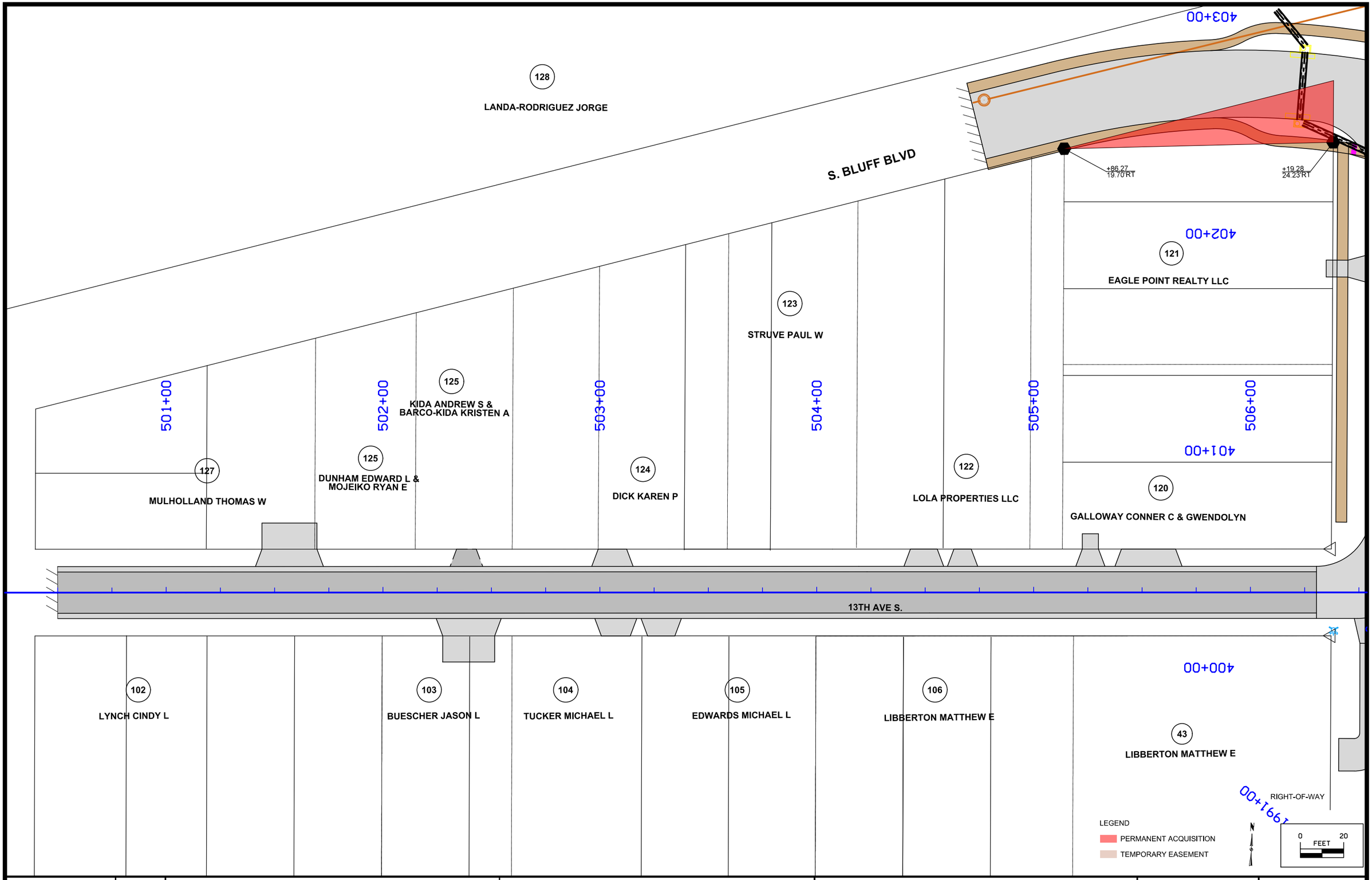

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER H.20	REVISED

2:09:15 PM 7/27/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_H20.dgn

41
CITY OF CLINTON

129
VANZUIDEN KELLY P

119
CITY OF CLINTON

42
CITY OF CLINTON

32
DEVRIES RICKY L & WENDI A

33
DEVRIES RICKY L & WENDI A

118
KEMP RANDY EUGENE

117
BARK LEANDA M & DU

108
JOHNSON JAMES A & CATHERINE

107
THIESSEN THOMAS L & MOLLY S

31
SNODGRASS STEVEN A & SANDRA K

109
RK DEVELOPMENT LC SERIES 1

110
RK DEVELOPMENT LC SERIES 10

111
DREWS DAVID A & ANGELA L

112
DASH GARY A & DELORES

S. BLUFF BLVD

MANUFACTURING DRIVE

13TH AVE S.

S 18TH ST

1995+00

1994+00

1993+00

1992+00

507+00

+19.28
24.23 RT

RIGHT-OF-WAY

LEGEND
PERMANENT ACQUISITION
TEMPORARY EASEMENT

0 20
FEET

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER H.21	REVISED

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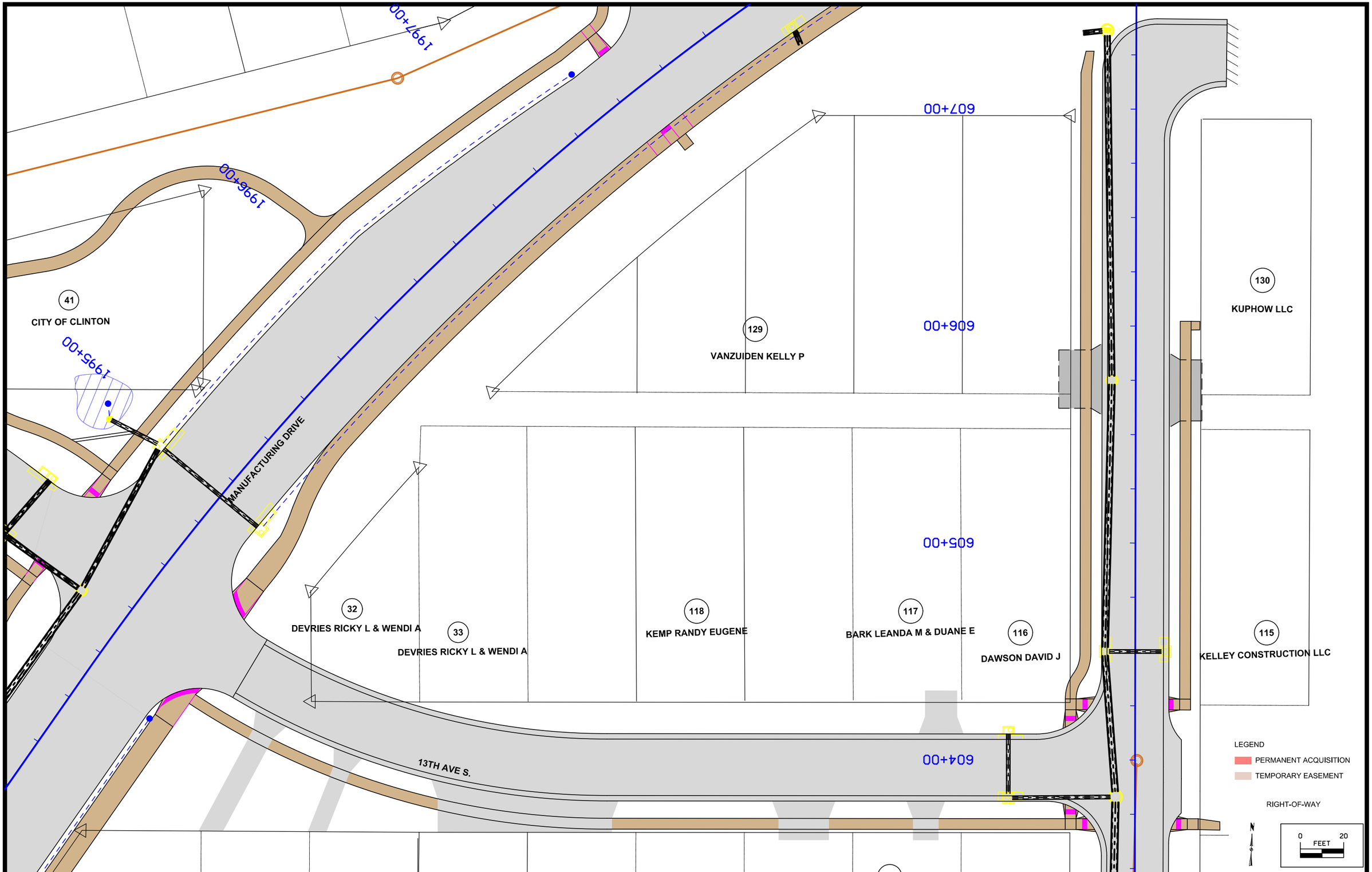

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER H.22	REVISED

2:09:18 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_H22.dgn

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER H.23	REVISED

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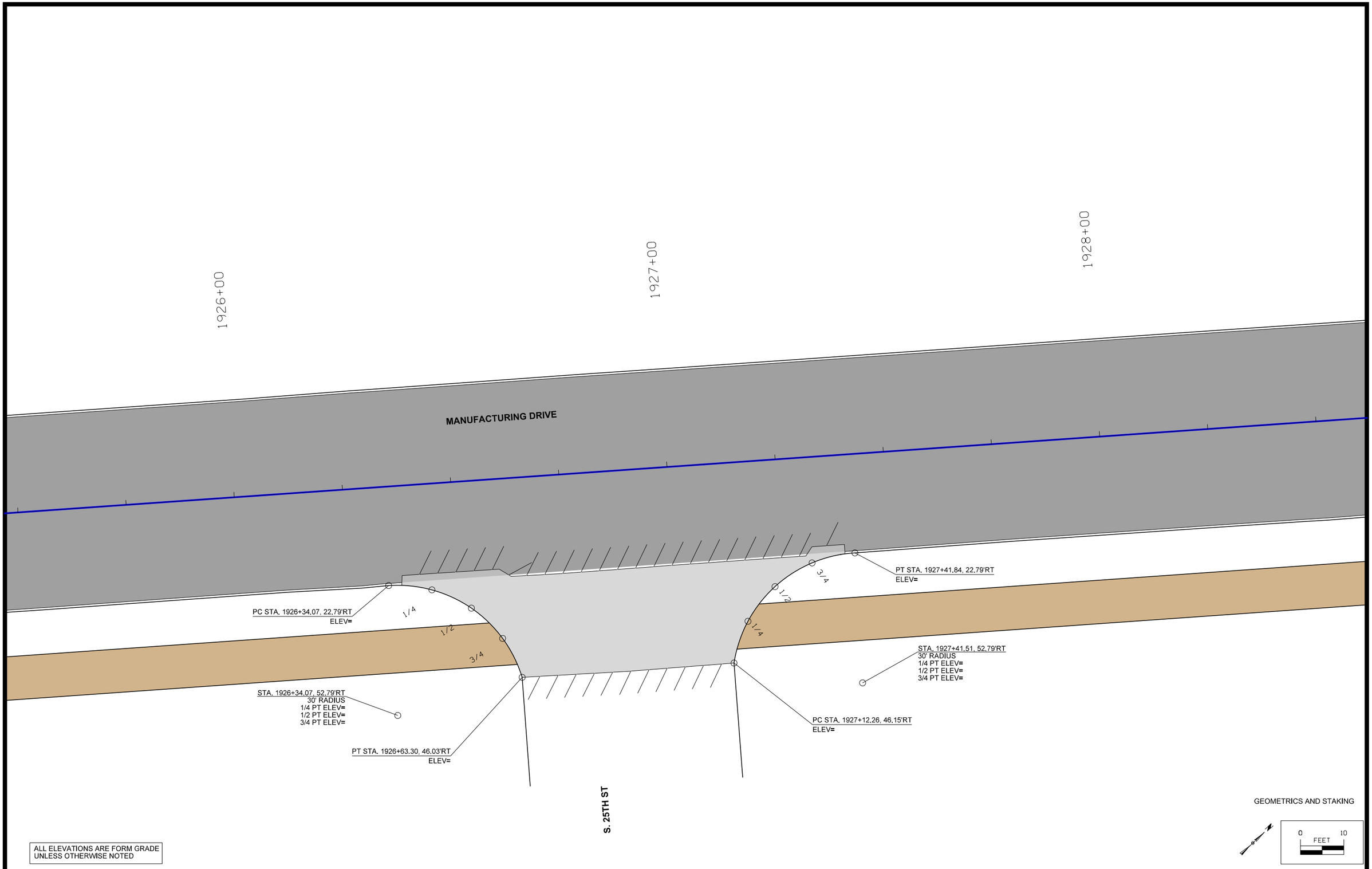

ALL ELEVATIONS ARE FORM GRADE
UNLESS OTHERWISE NOTED

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.9	REVISED

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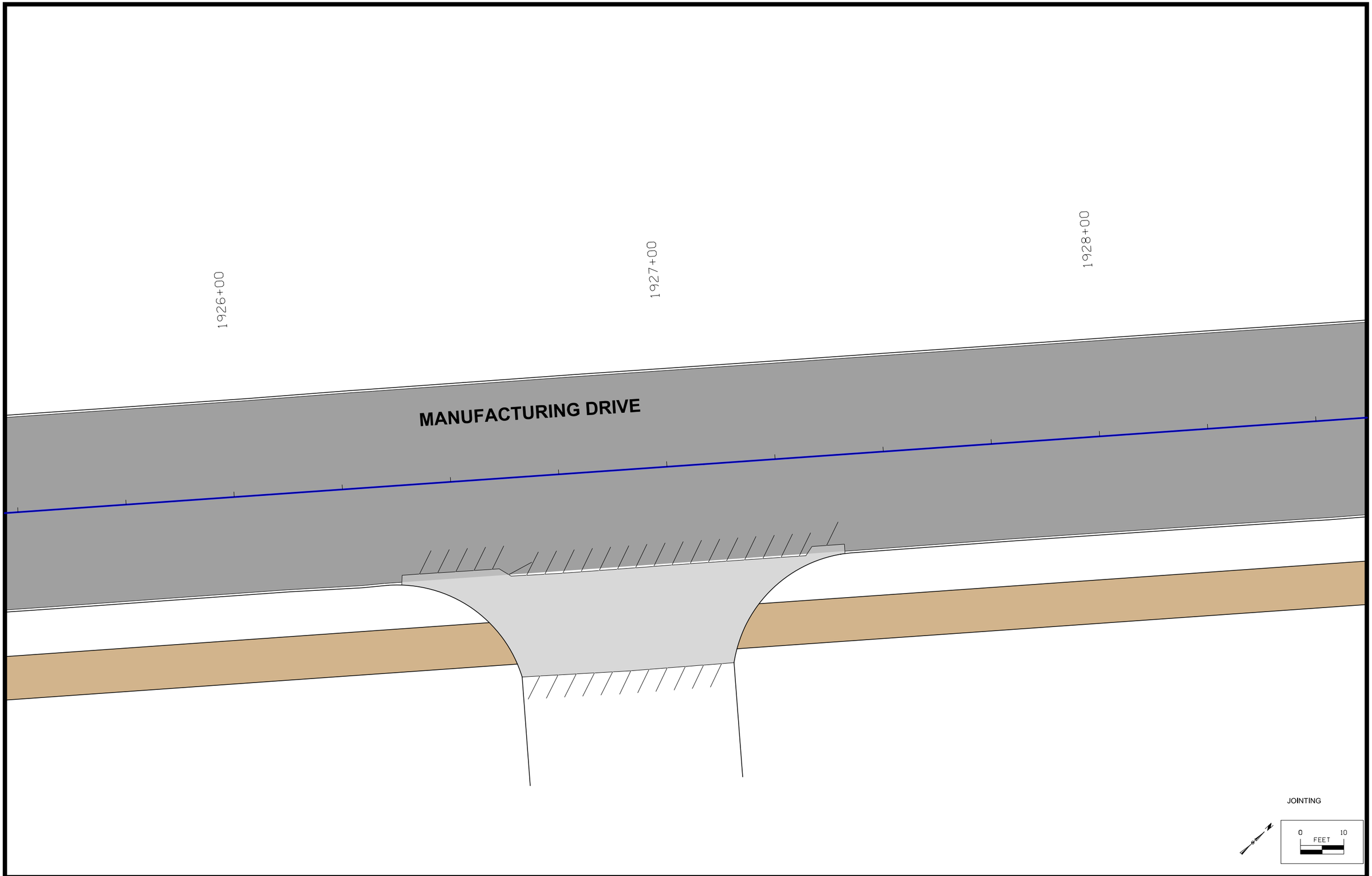

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.10	REVISED

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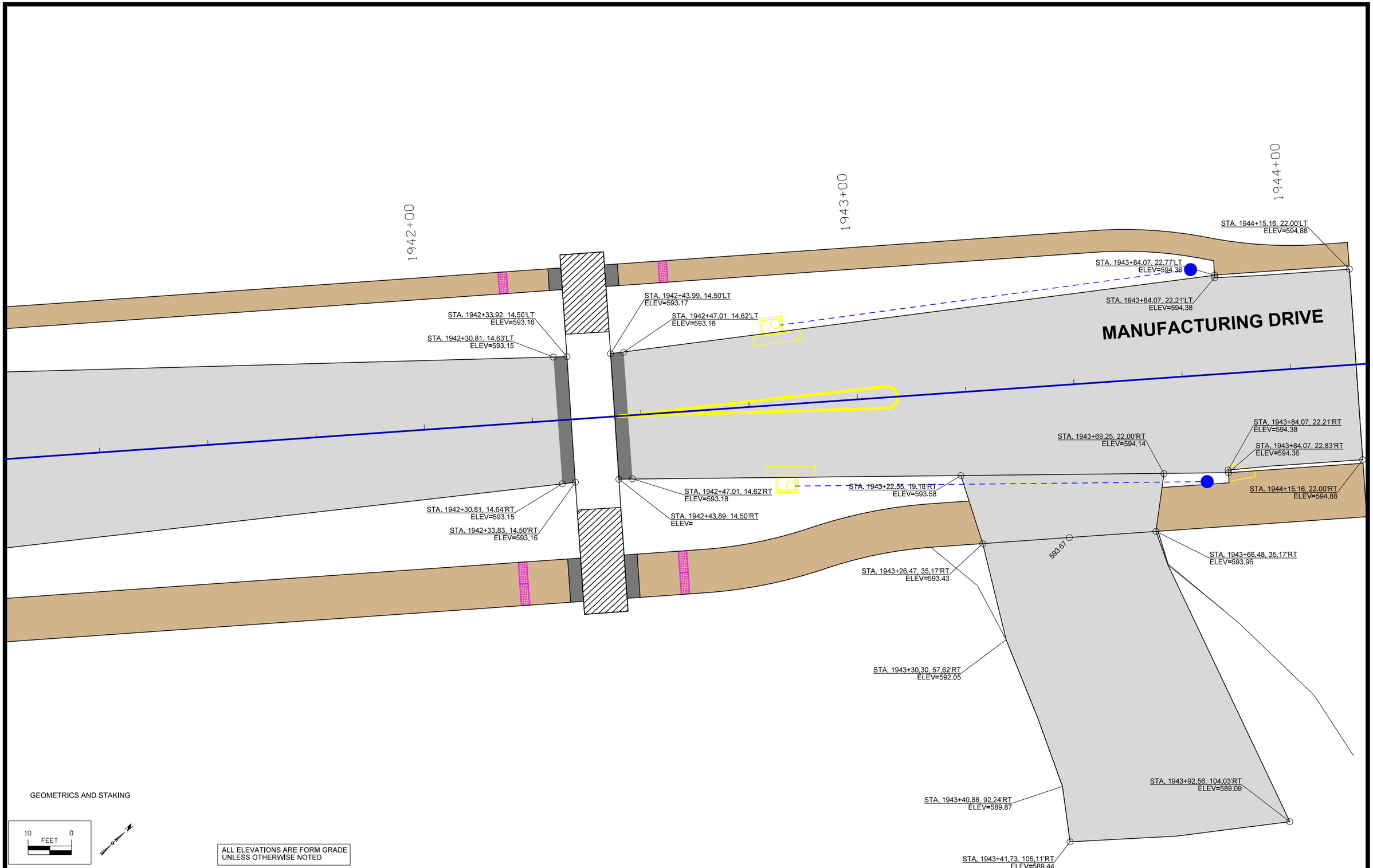

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.11	REVISED

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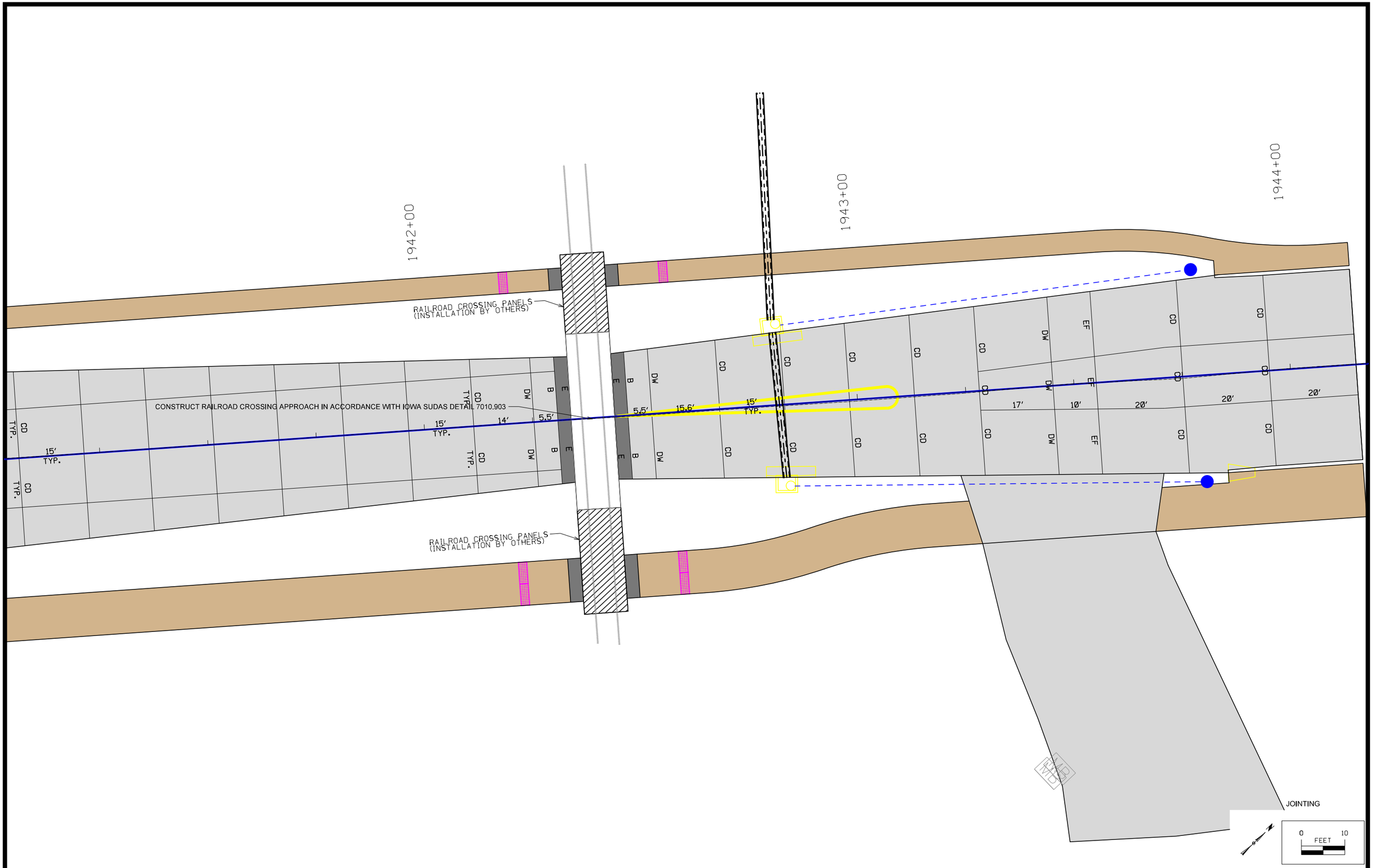

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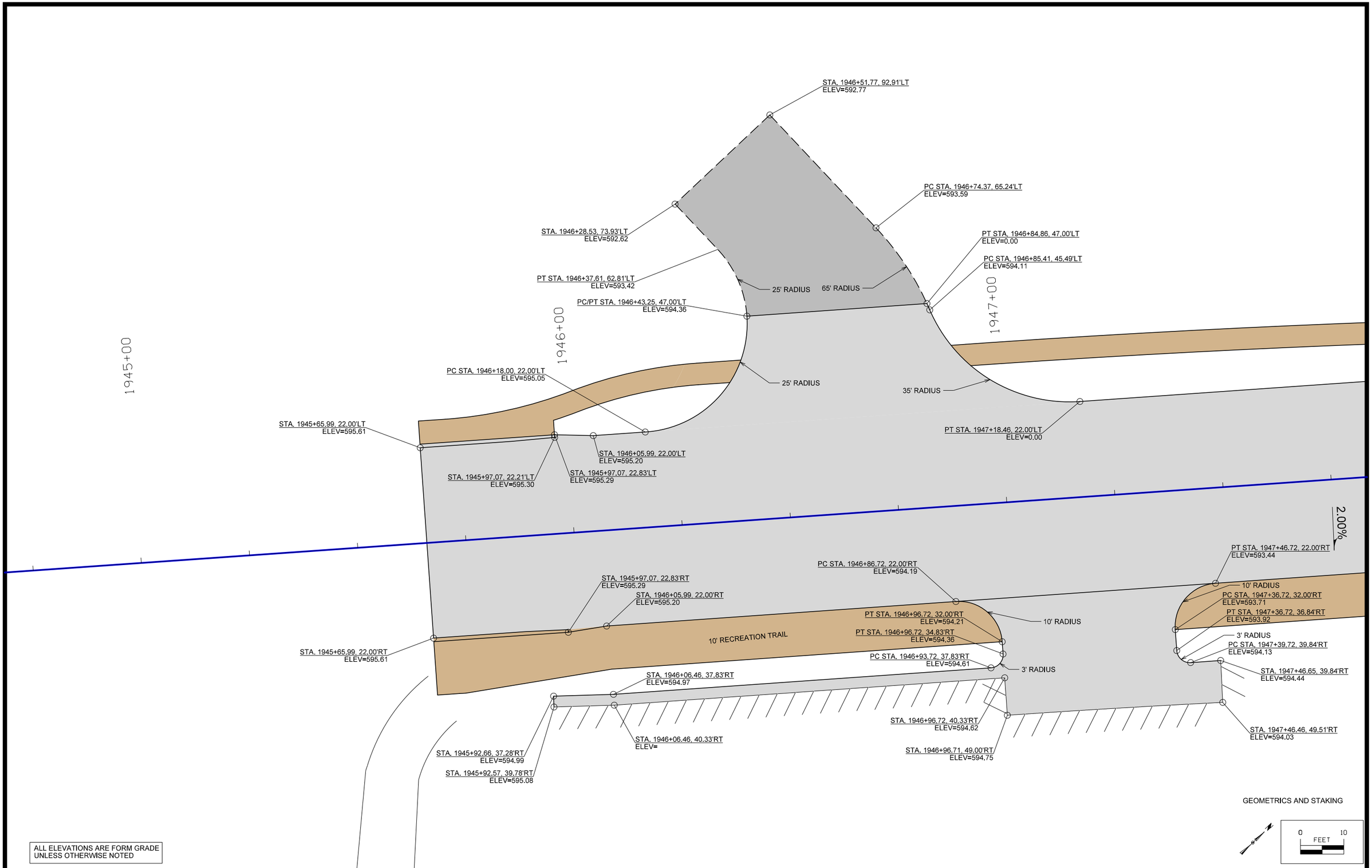

ALL ELEVATIONS ARE FORM GRADE
UNLESS OTHERWISE NOTED

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER **L.13**	REVISED

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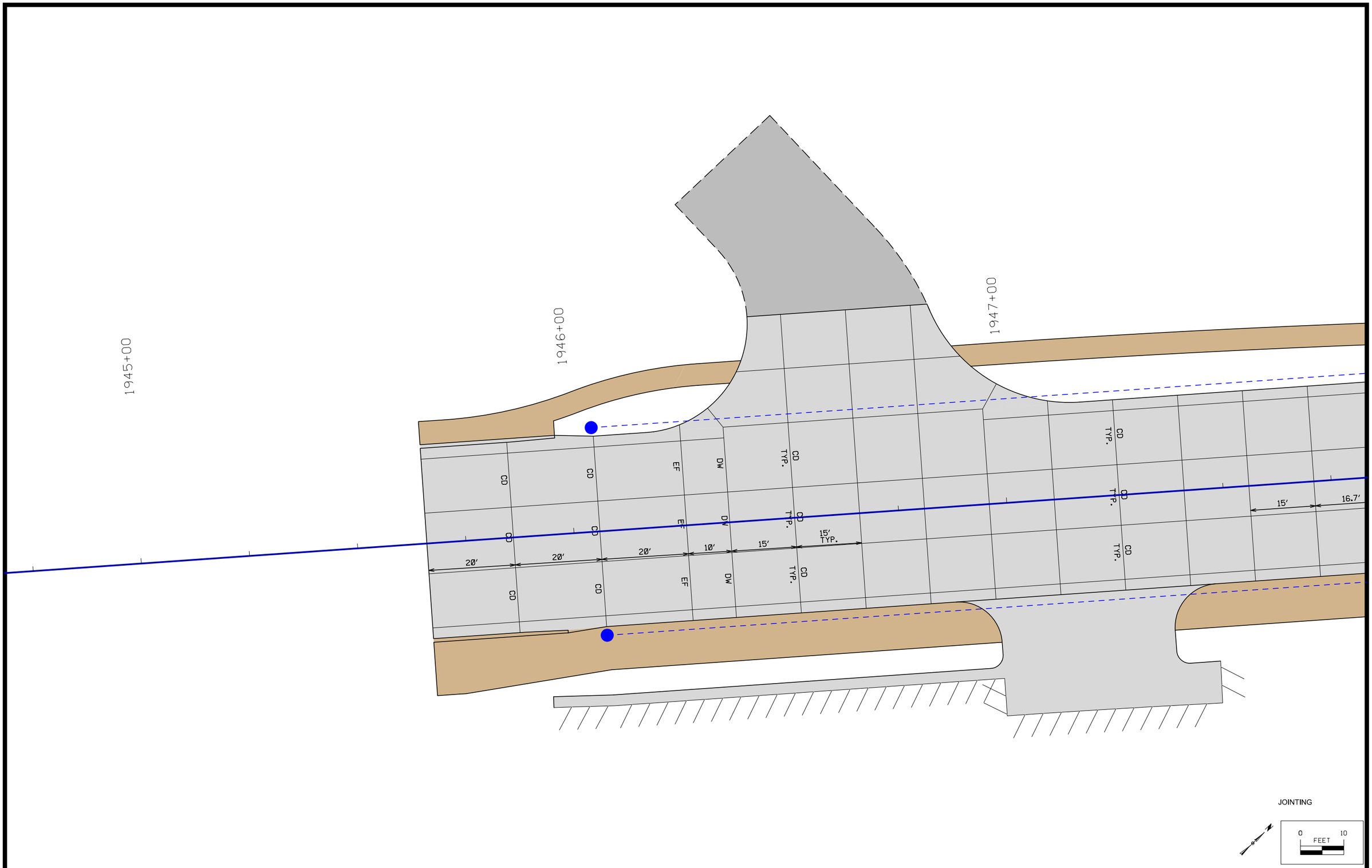

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.14	REVISED

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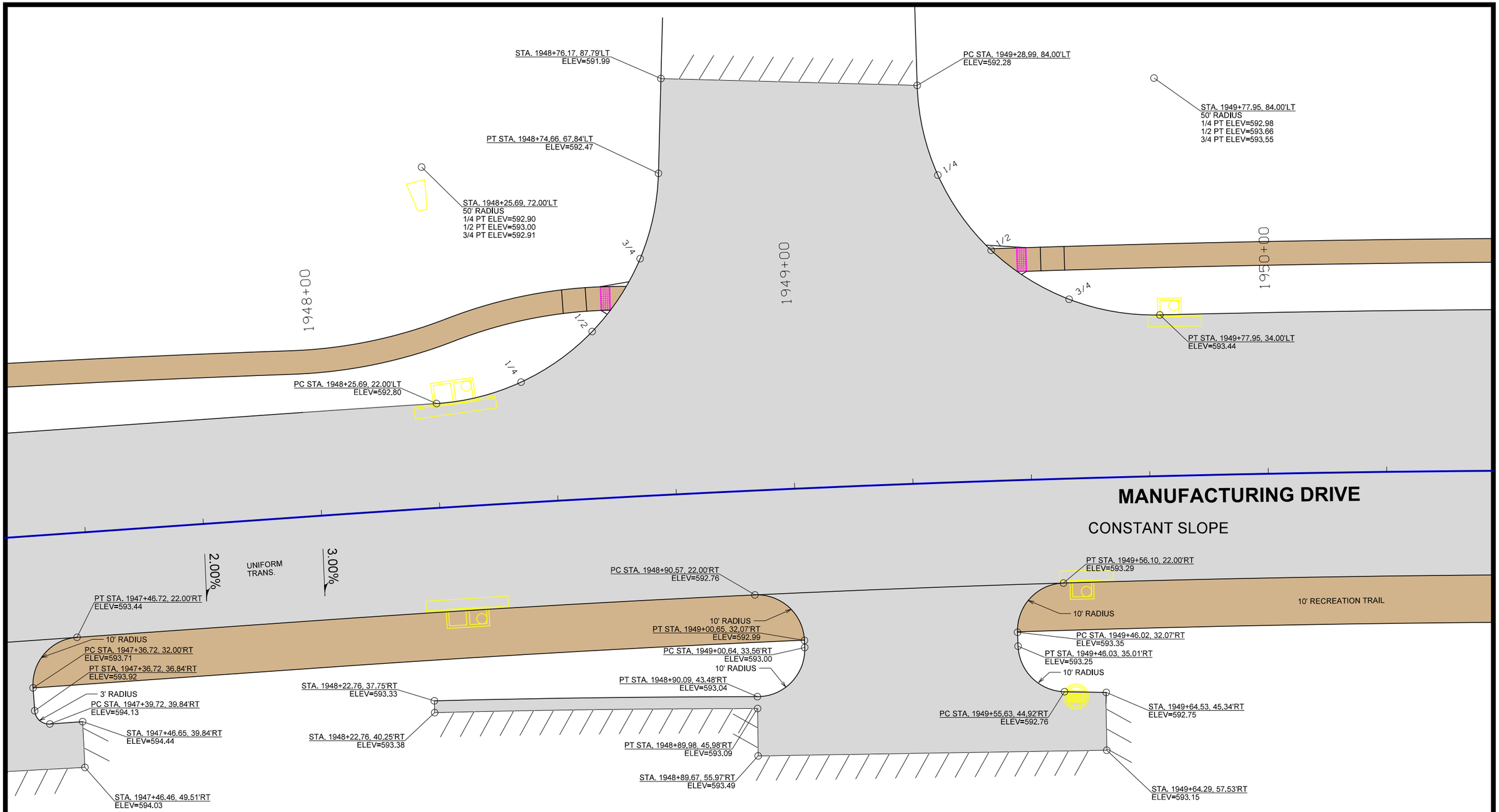


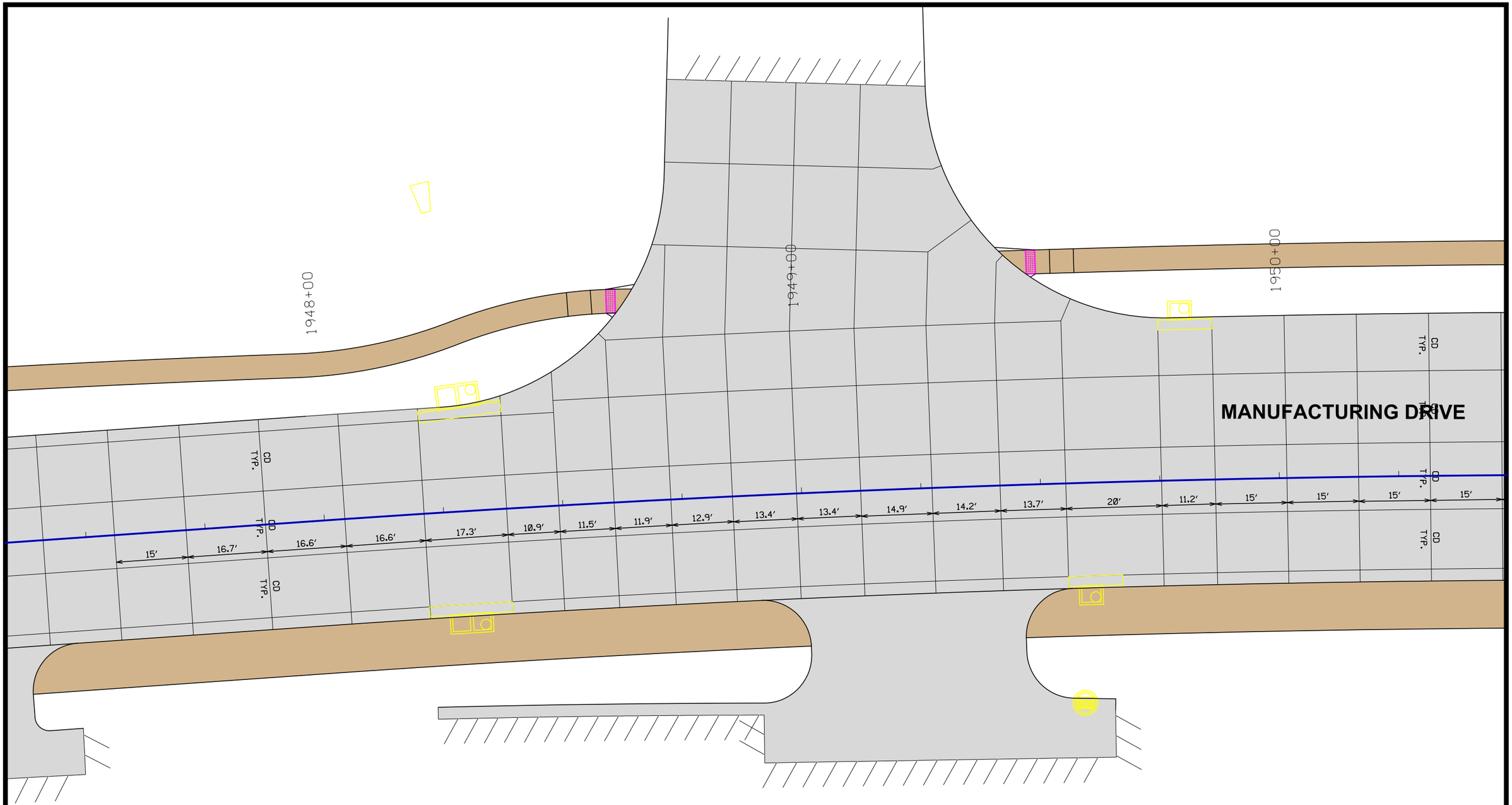
ALL ELEVATIONS ARE FORM GRADE UNLESS OTHERWISE NOTED

GEOMETRICS AND STAKING

0 10
FEET

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.15	REVISED

2:11:43 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_L15.dgn

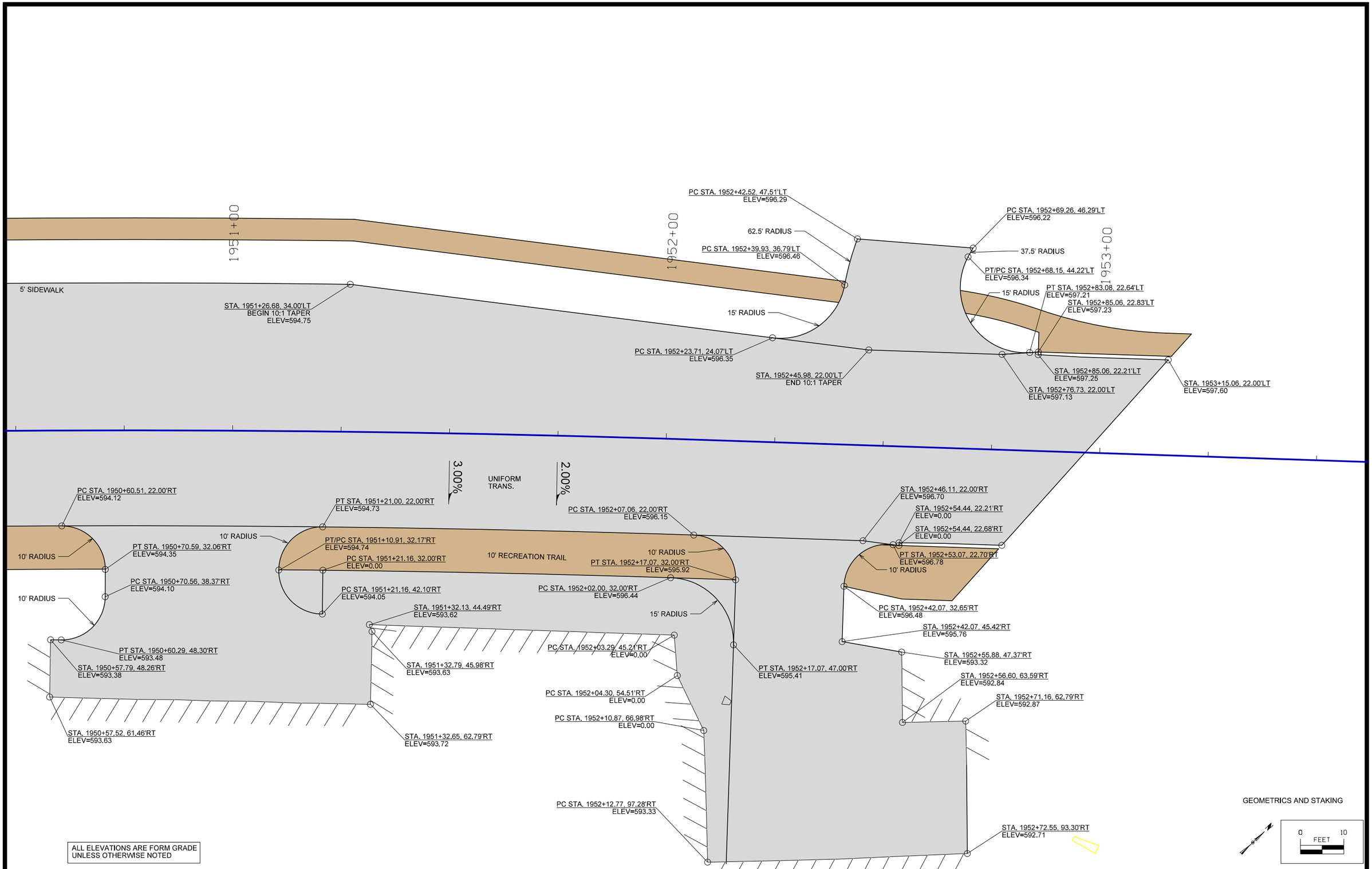


JOINTING

0 FEET 10

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.16	REVISED

2:11:44 PM 7/2/2021 sschellch P:\30618011-001\06-Drawings\Civil\Dgns\30618011_L16.dgn



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE		CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.17	REVISED

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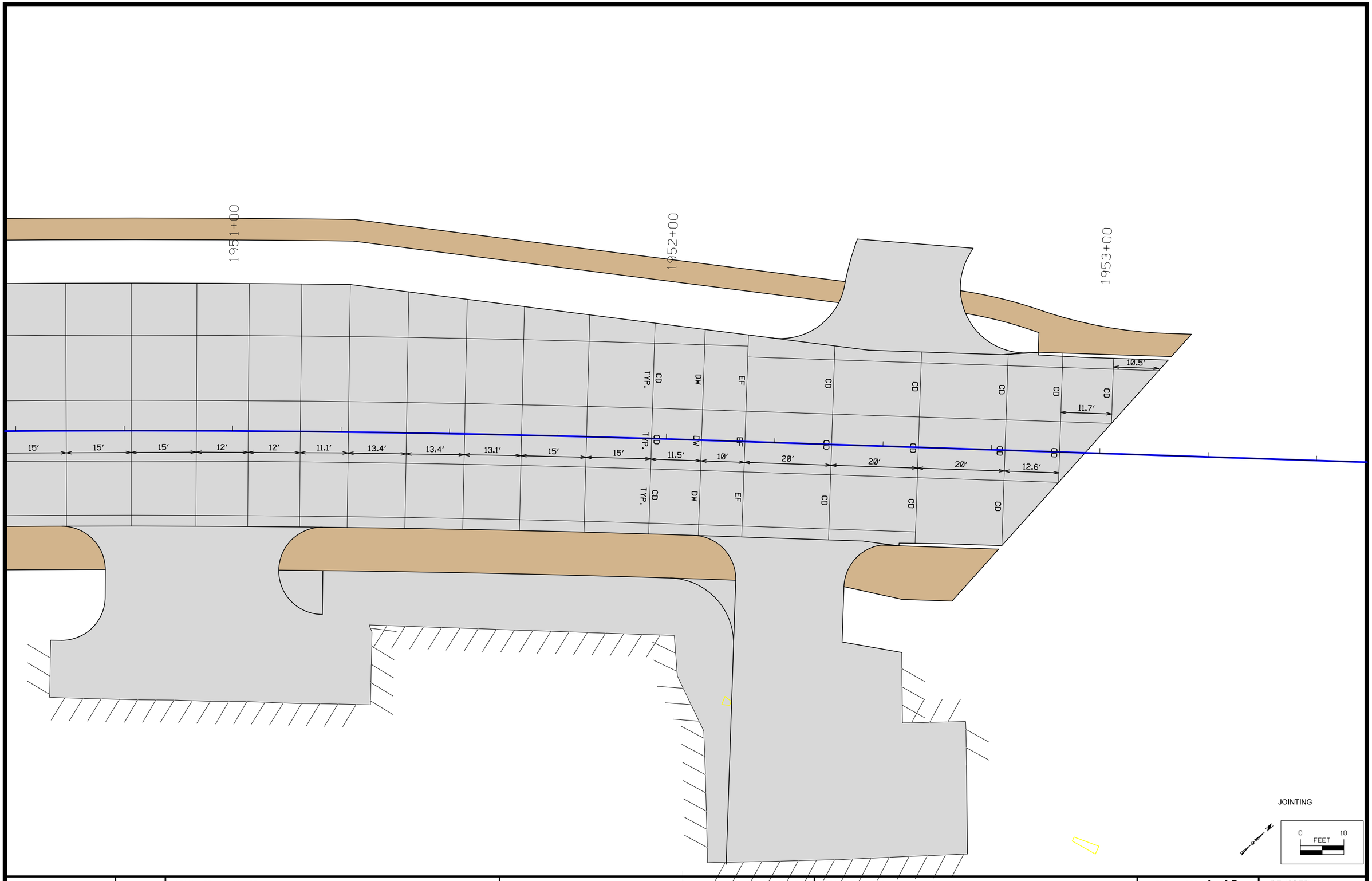
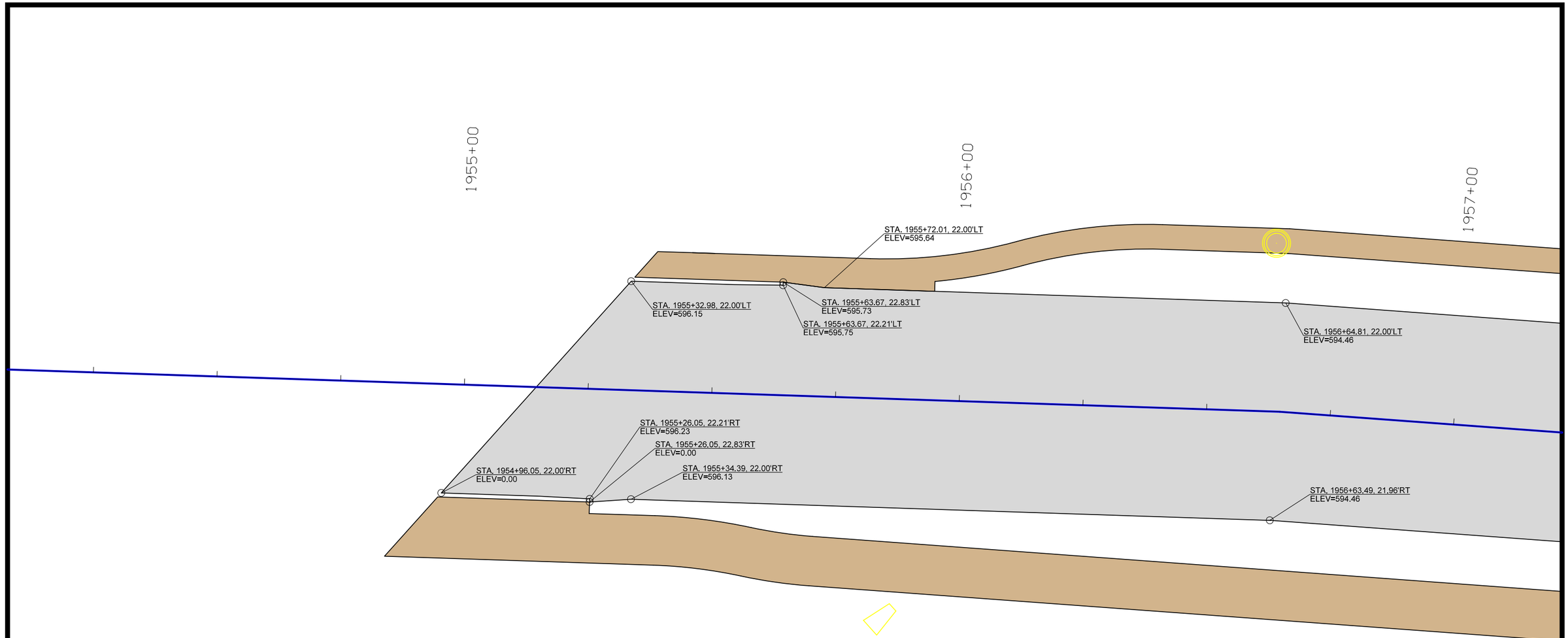


FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.18	REVISED

2:11:52 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_L18.dgn



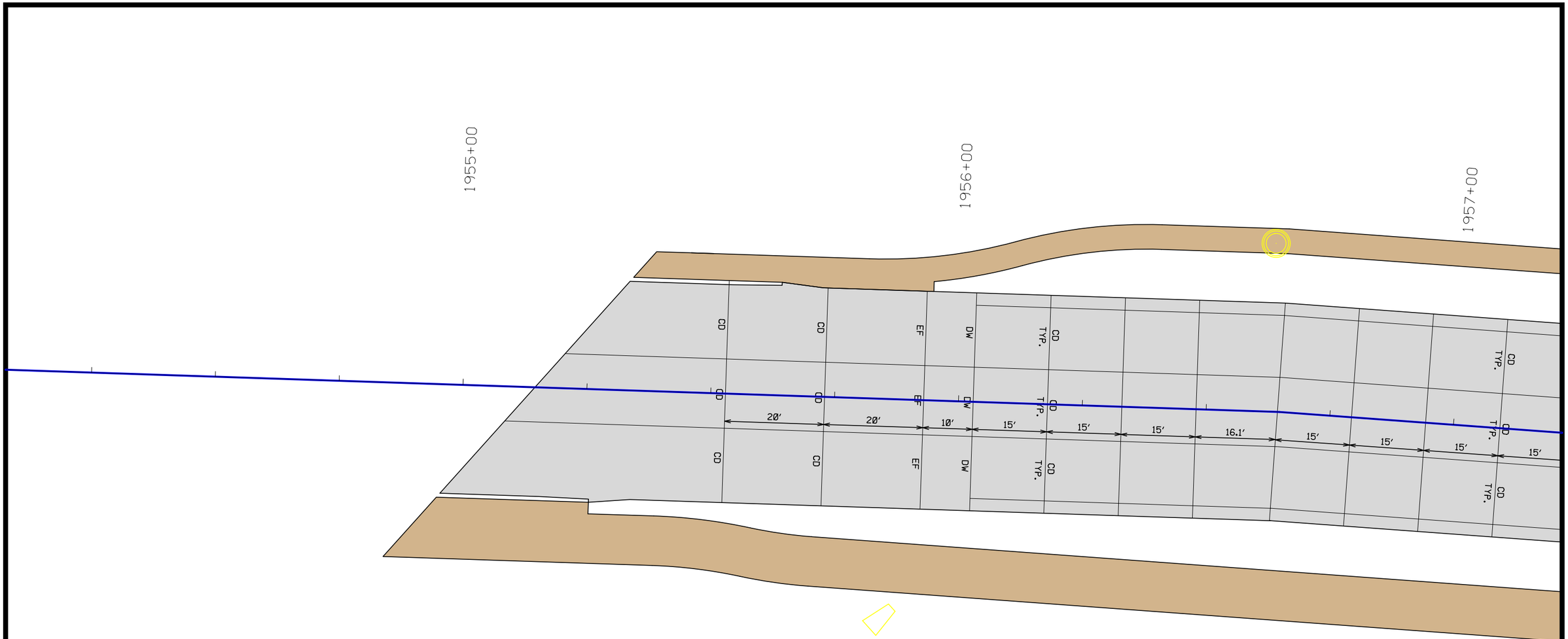
GEOMETRICS AND STAKING

0 10
FEET

ALL ELEVATIONS ARE FORM GRADE
UNLESS OTHERWISE NOTED

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.19	REVISED

2:11:58 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_L19.dgn



JOINTING

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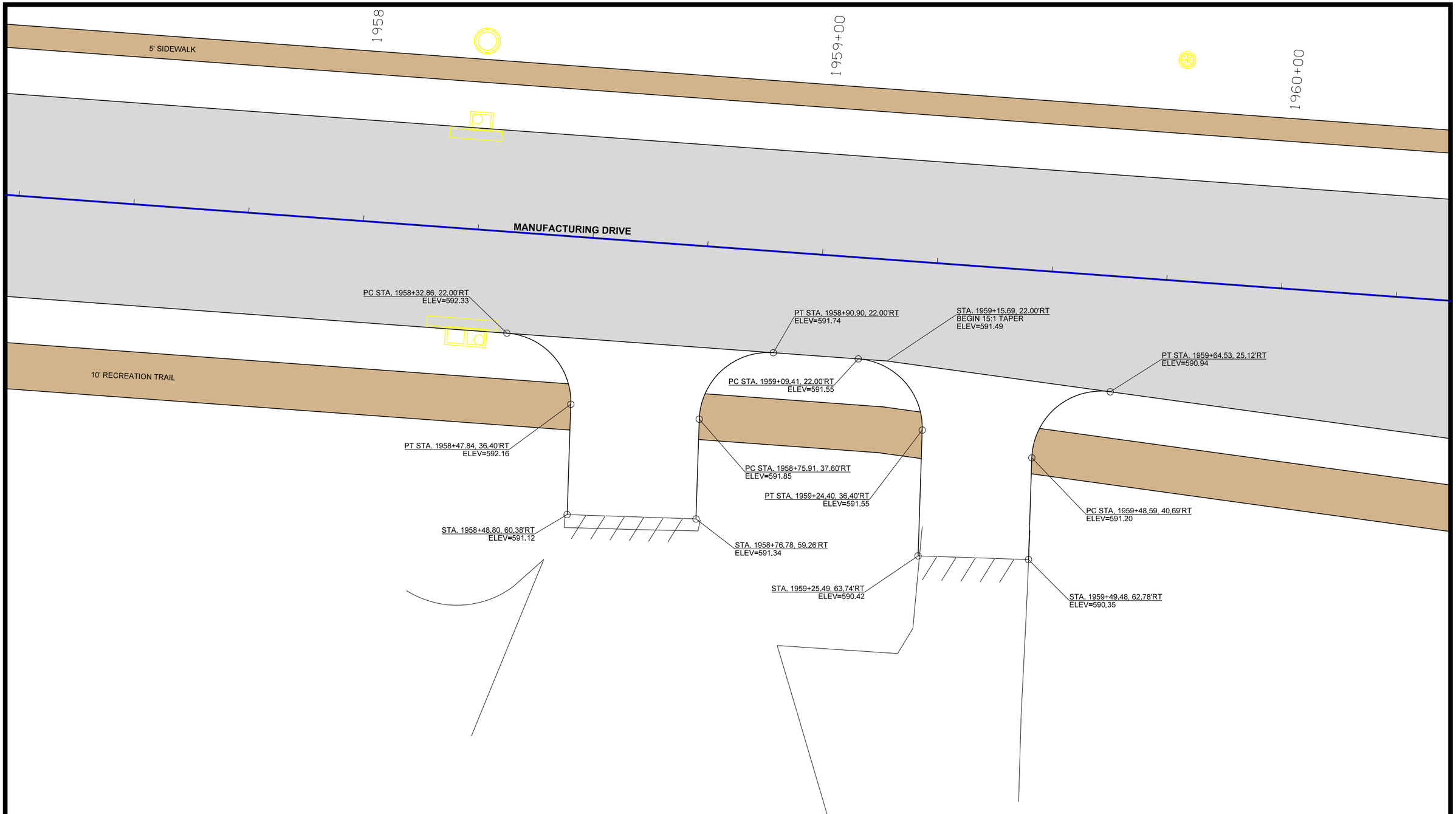
FEET

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.20	REVISED

2:11:59 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_L20.dgn



GEOMETRICS AND STAKING

0 10
FEET

ALL ELEVATIONS ARE FORM GRADE
UNLESS OTHERWISE NOTED

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.21	REVISED

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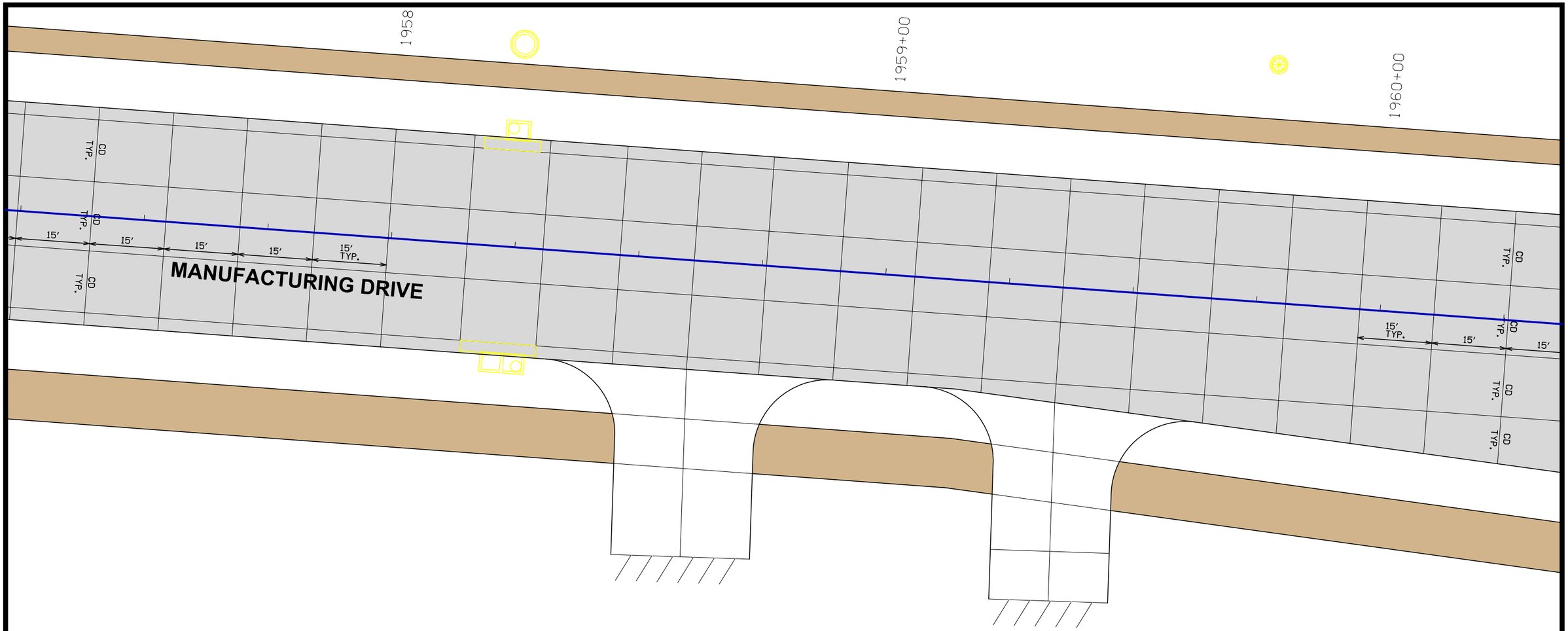
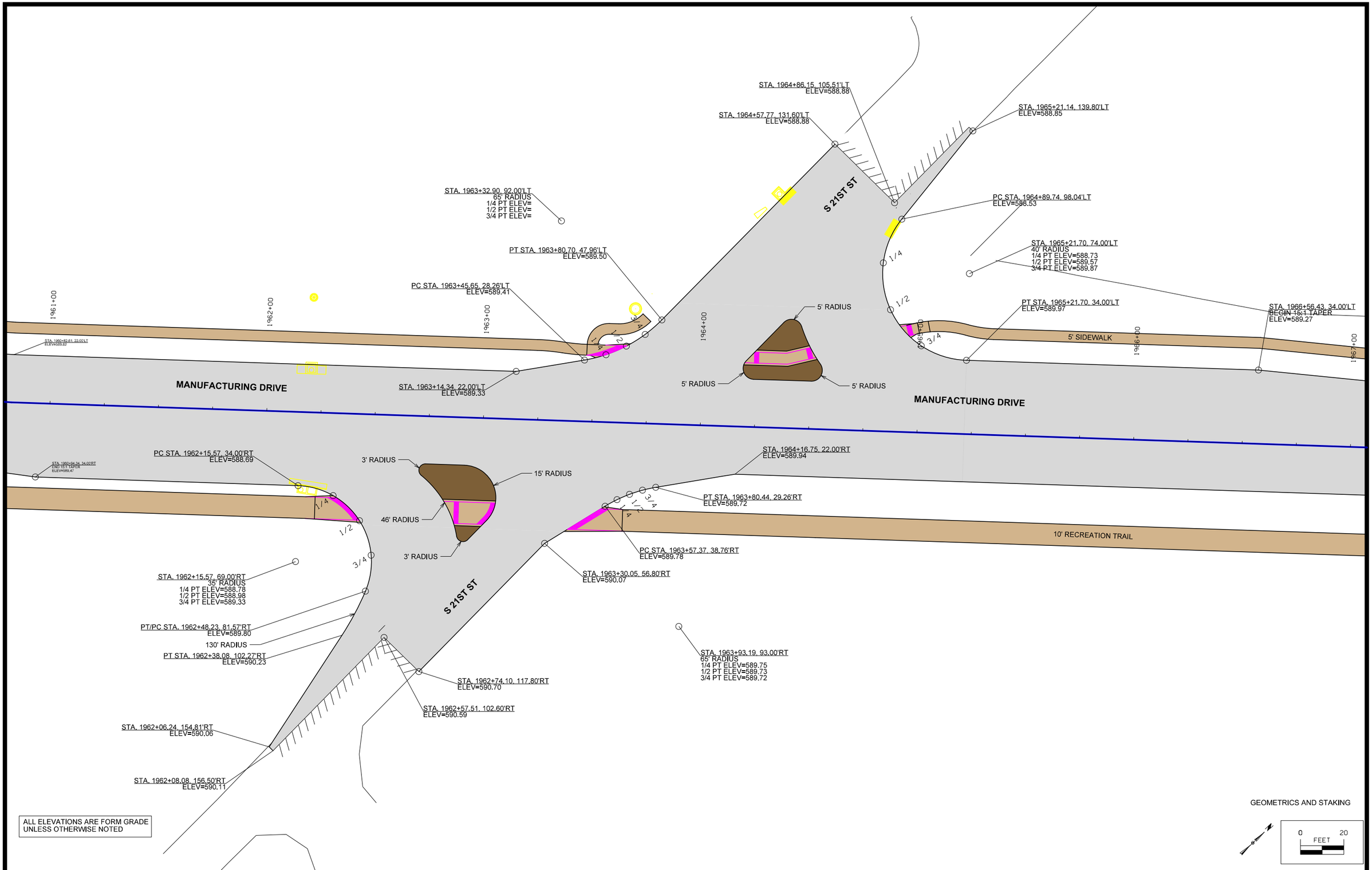


JOINTING

0 FEET 10

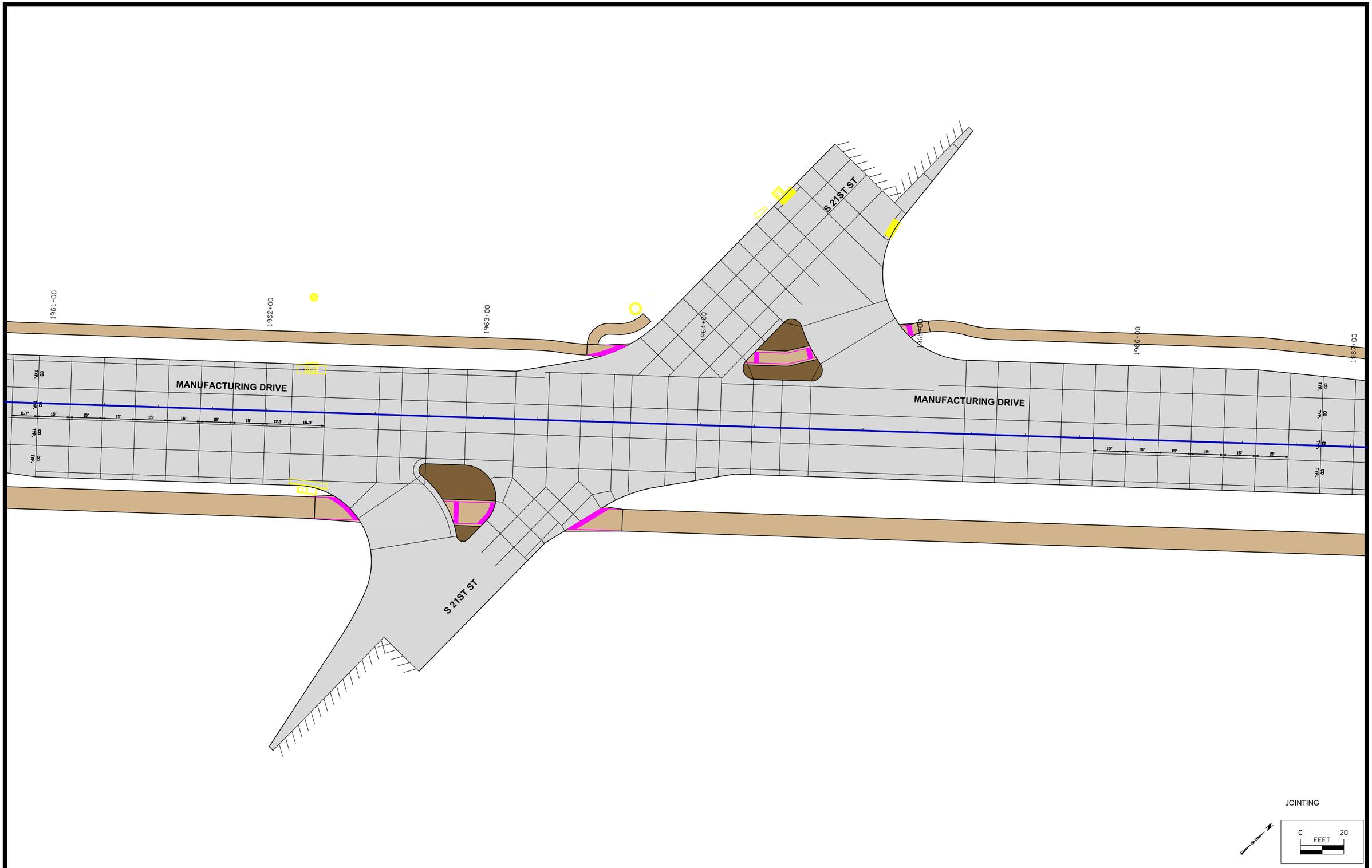
FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.22	REVISED

2:12:07 PM 7/2/2021 sschellch P:\30618011-001\06-Drawings\Civil\Dgns\30618011_L22.dgn



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.23	REVISED

2:12:13 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_L23.dgn



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.24	REVISED

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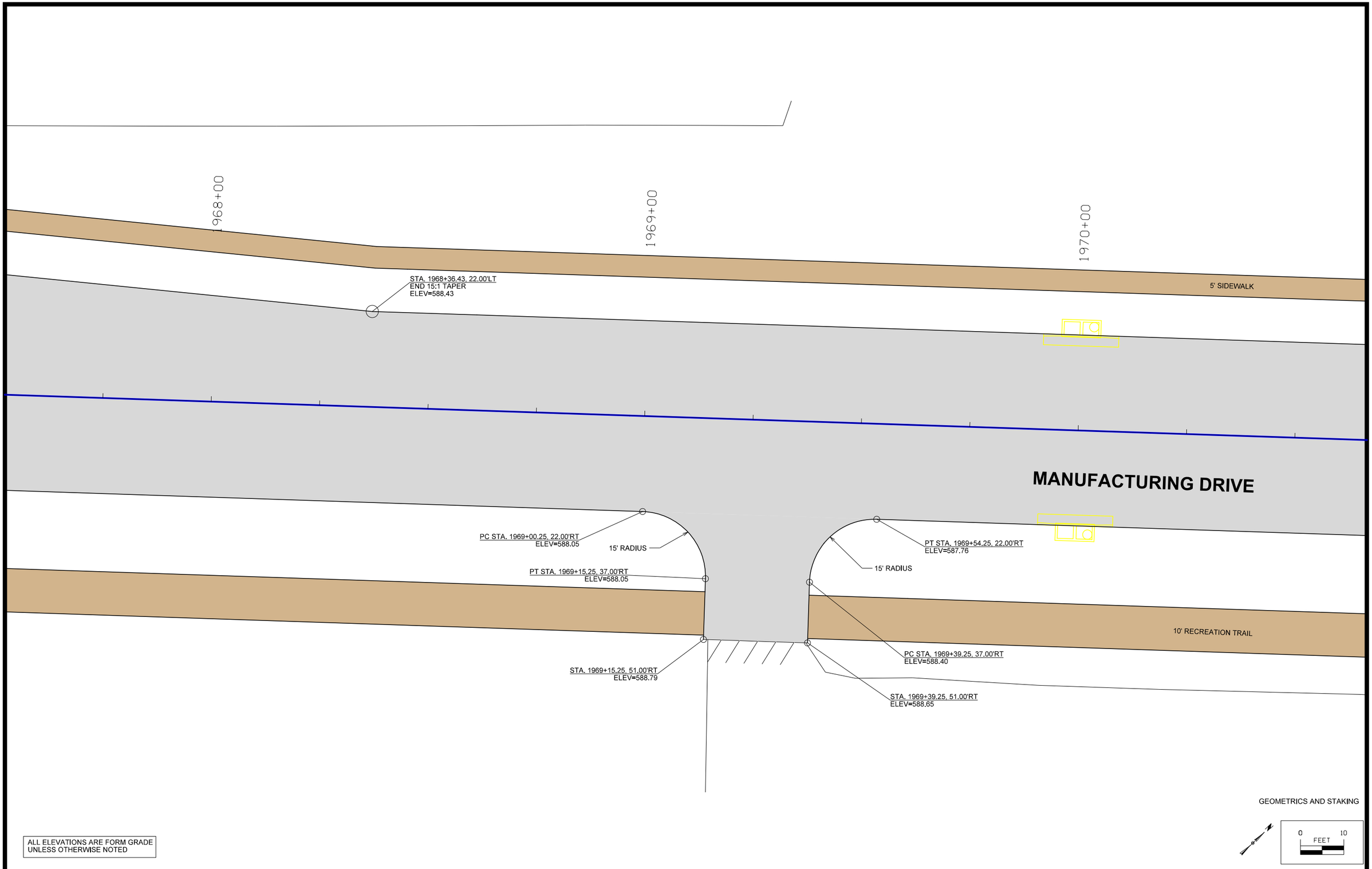
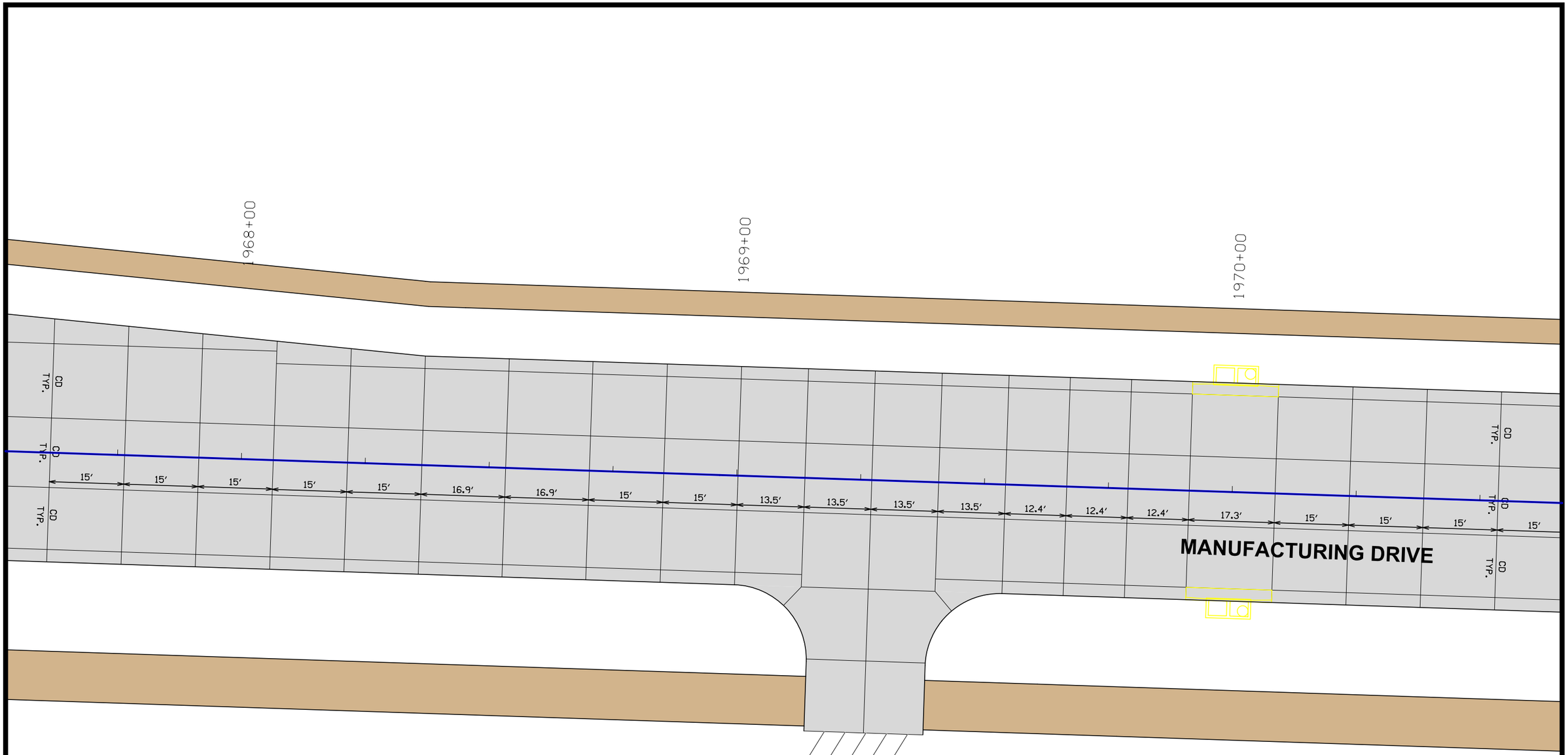


ALL ELEVATIONS ARE FORM GRADE
UNLESS OTHERWISE NOTED

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.25	REVISED

2:12:20 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_L25.dgn



JOINTING

0 10
FEET

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.26	REVISED

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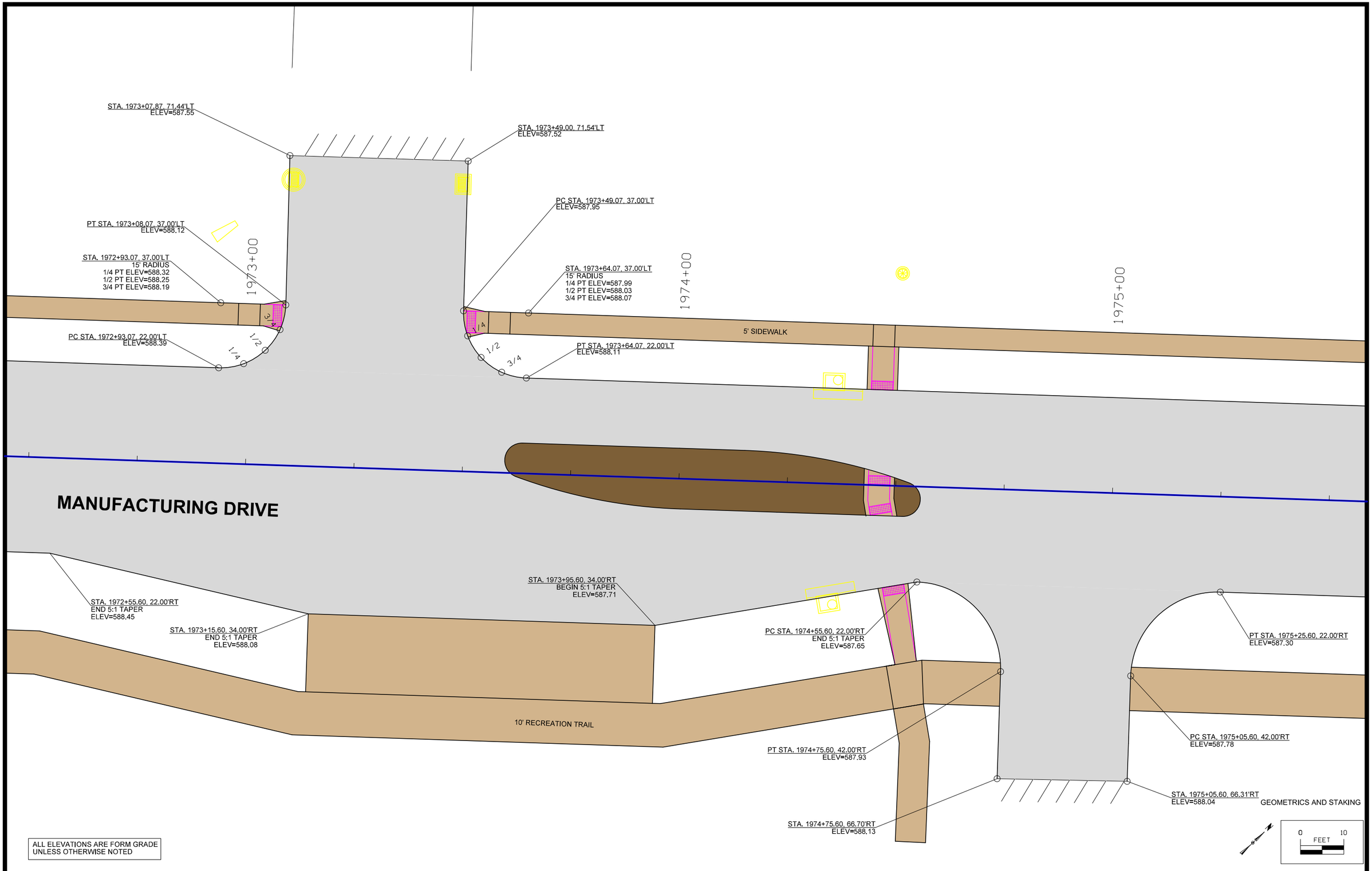
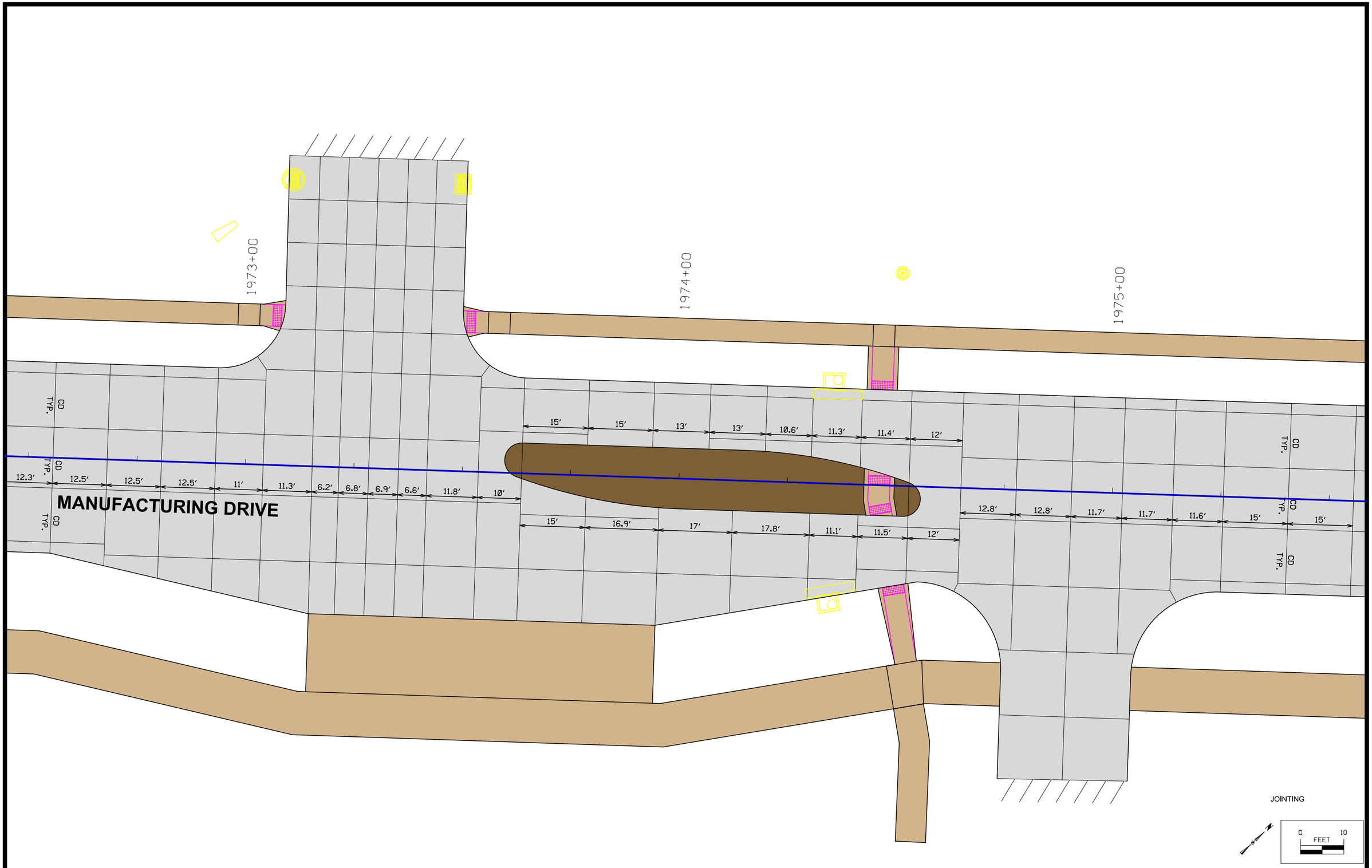


ALL ELEVATIONS ARE FORM GRADE
UNLESS OTHERWISE NOTED

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.27	REVISED

2:12:28 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_L27.dgn



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.28	REVISED

2:12:29 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_L28.dgn

ALL ELEVATIONS ARE FORM GRADE UNLESS OTHERWISE NOTED

STA. 800+31.99, 21.00'LT (FOCUS DR)
10' RADIUS
1/4 PT ELEV=587.57
1/2 PT ELEV=587.52
3/4 PT ELEV=587.48

00+106

3' RADIUS

PT STA. 901+71.66, 11.00'RT (ALLEY)
ELEV=

10' RADIUS

PC STA. 901+61.66, 21.10'RT (ALLEY)
ELEV=

3' RADIUS

STA. 901+61.92, 44.08'RT (ALLEY)
ELEV=

800+00

STA. 800+30.49, 11.00'LT (FOCUS DR)
ELEV=587.61

STA. 800+30.49, 11.00'RT (FOCUS DR)
ELEV=587.70

3' RADIUS

1/4
1/2
3/4

PC STA. 800+31.99, 11.00'LT (FOCUS DR)
ELEV=587.60

PT STA. 800+38.70, 28.42'LT (FOCUS DR)
ELEV=587.44

00+006

STA. 1977+69.96, 92.09'LT
ELEV=587.44

PT STA. 1977+14.14, 52.00'LT
ELEV=0.00

PC STA. 1977+44.37, 63.76'LT
ELEV=587.09

STA. 1976+84.14, 52.00'LT
30' RADIUS
1/4 PT ELEV=586.67
1/2 PT ELEV=586.73
3/4 PT ELEV=586.79

STA. 1977+62.92, 47.00'LT
25' RADIUS
1/4 PT ELEV=586.94
1/2 PT ELEV=586.79
3/4 PT ELEV=586.64

1/4
1/2
3/4

1977+00

801+00

1978+00

1979+00

PC STA. 1976+84.14, 22.00'LT
ELEV=586.61

PT STA. 1977+62.92, 22.00'LT
ELEV=586.50

MANUFACTURING DRIVE

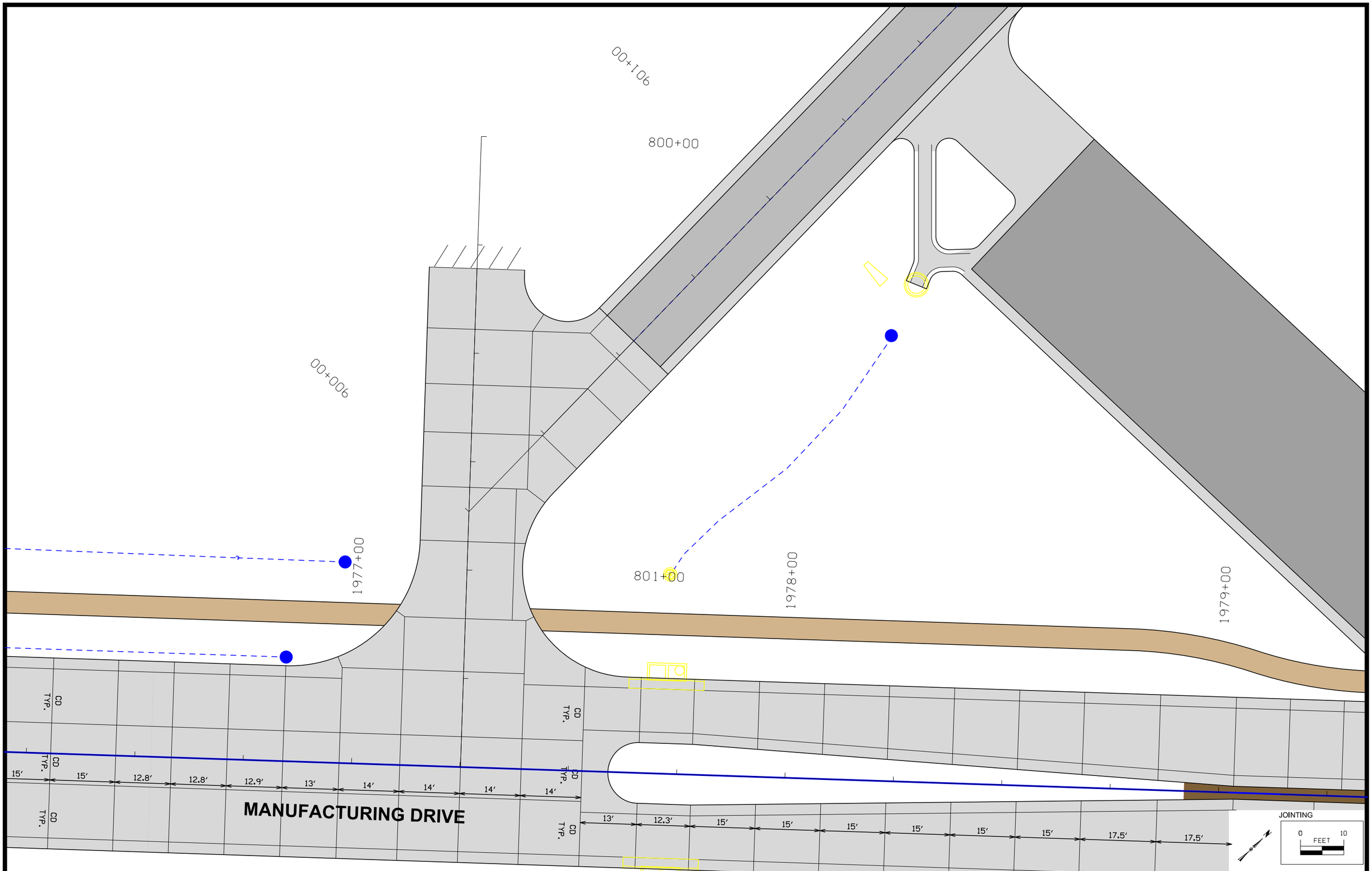
7' RADIUS

GEOMETRICS AND STAKING

0 10
FEET

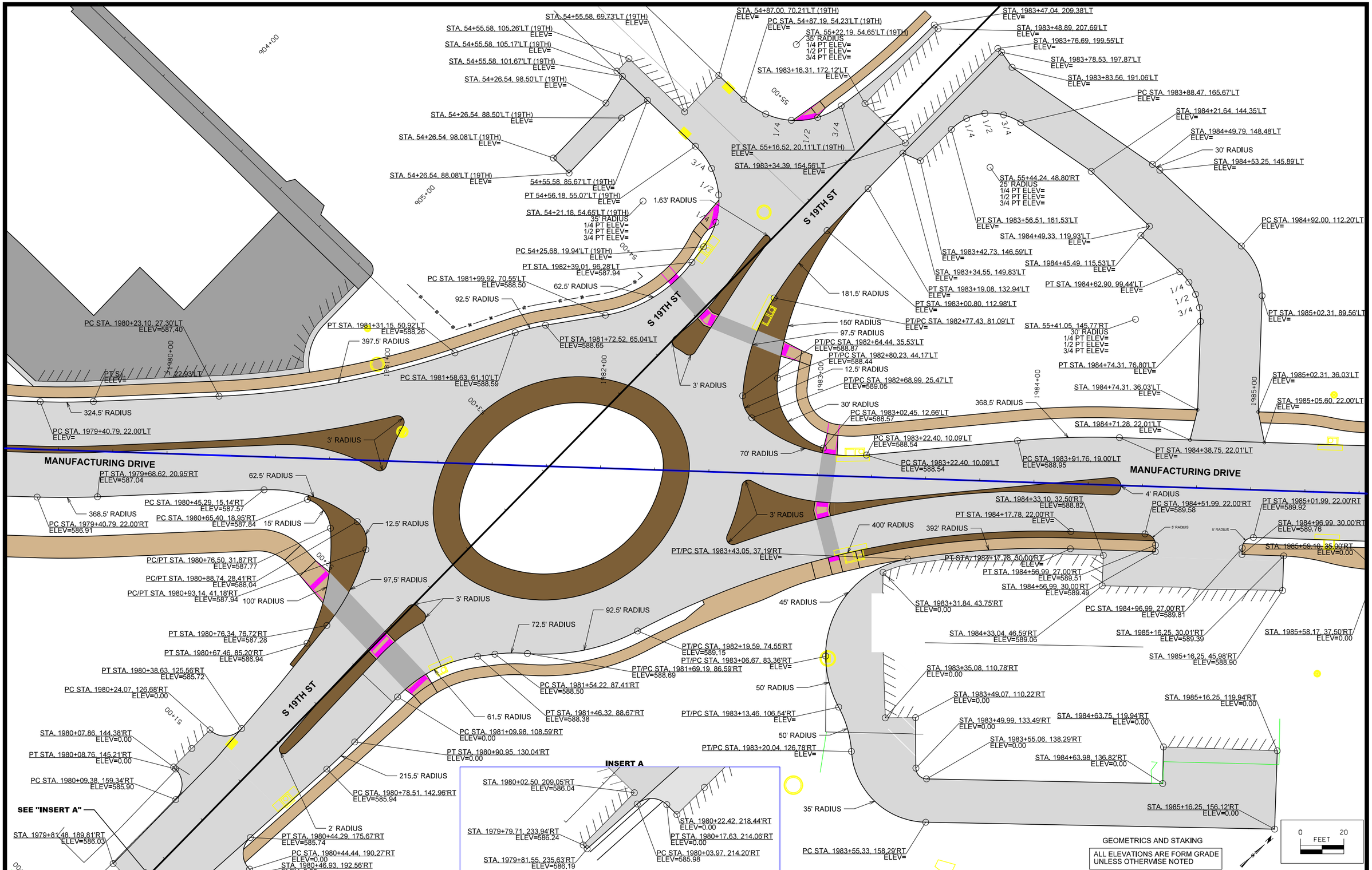
FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.29	REVISED

2:12:35 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_L29.dgn



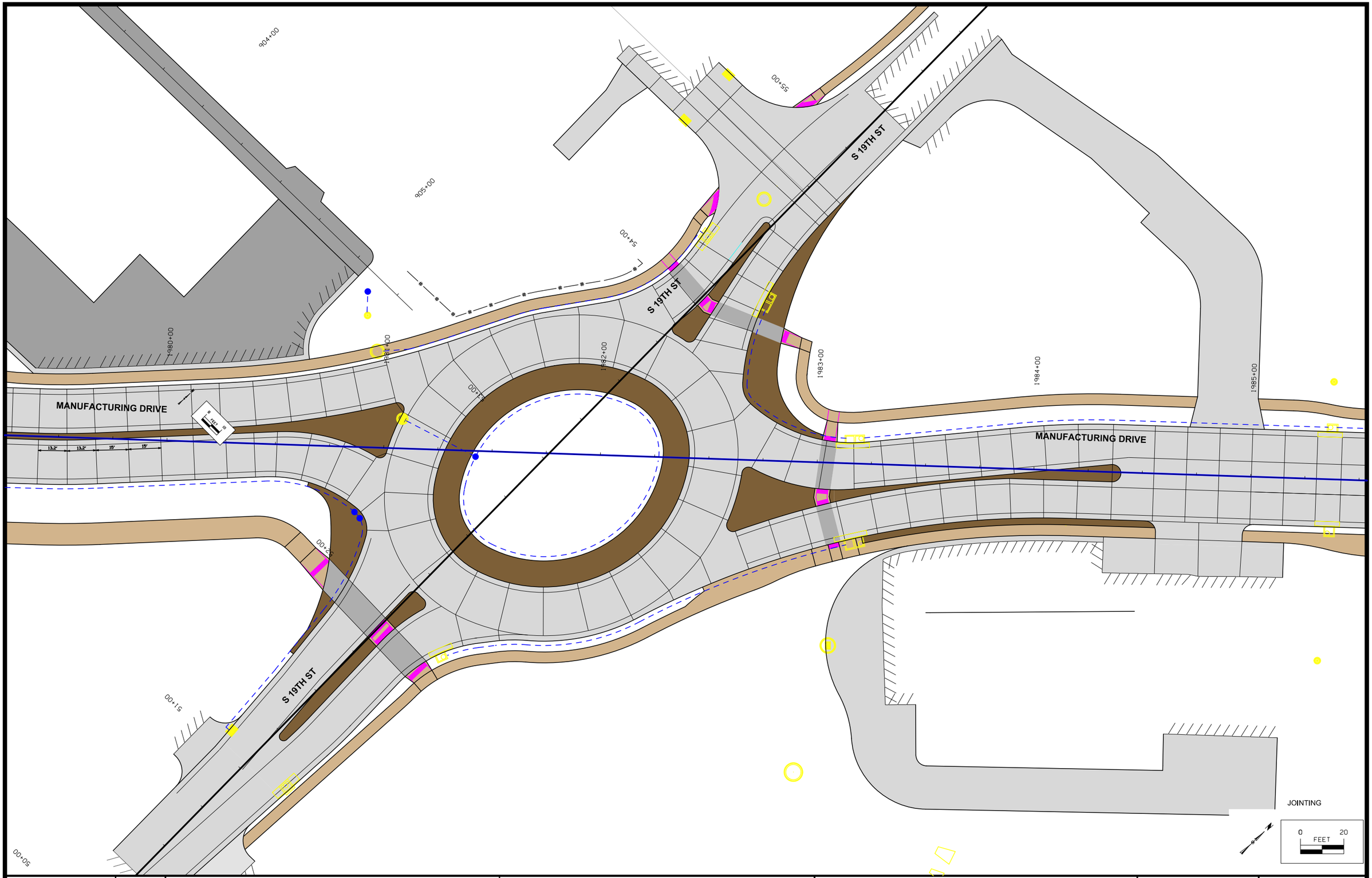
FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.30	REVISED

2:12:37 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_L30.dgn



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.31	REVISED

2:12:43 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_L31.dgn



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.32	REVISED

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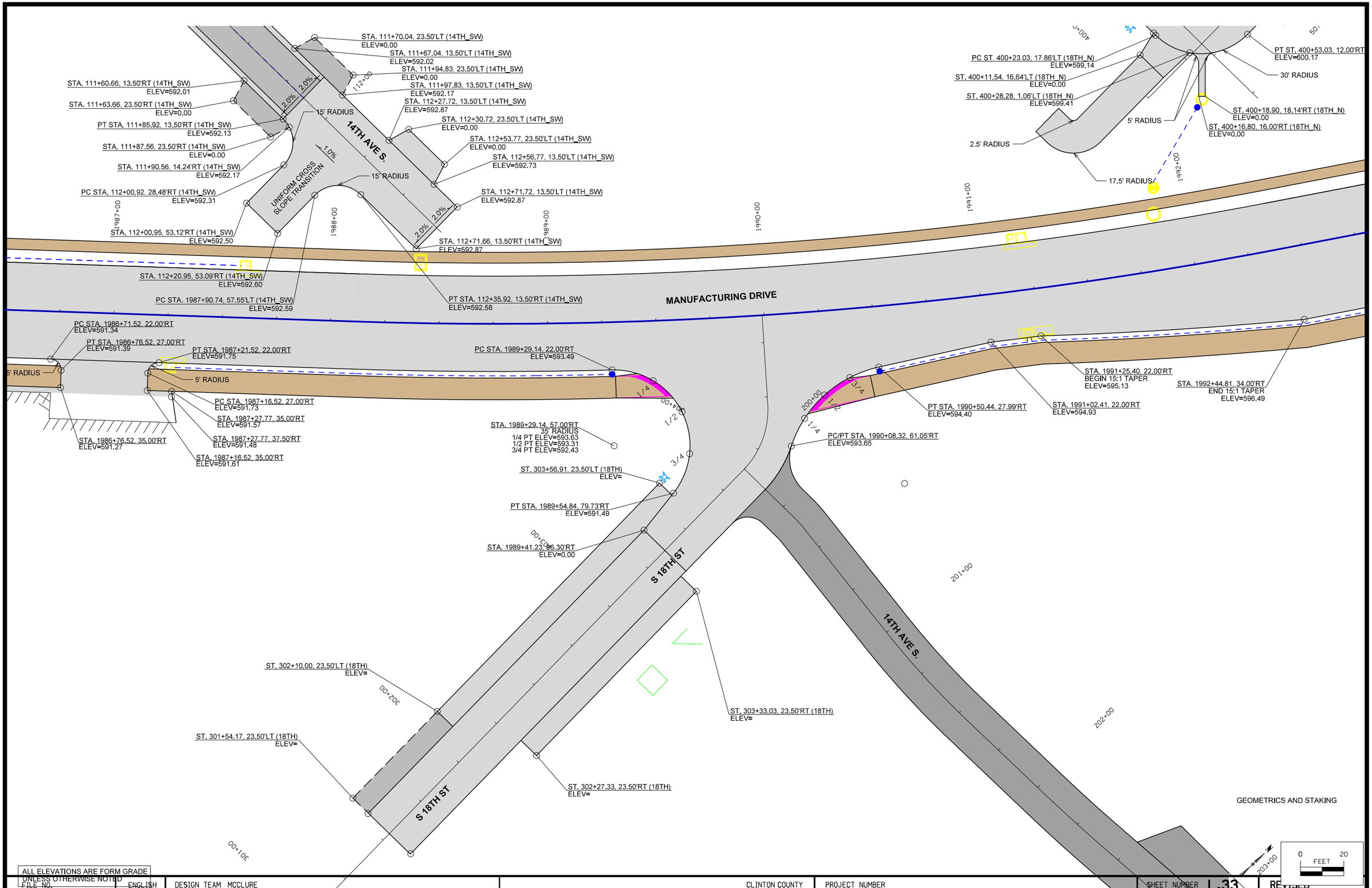
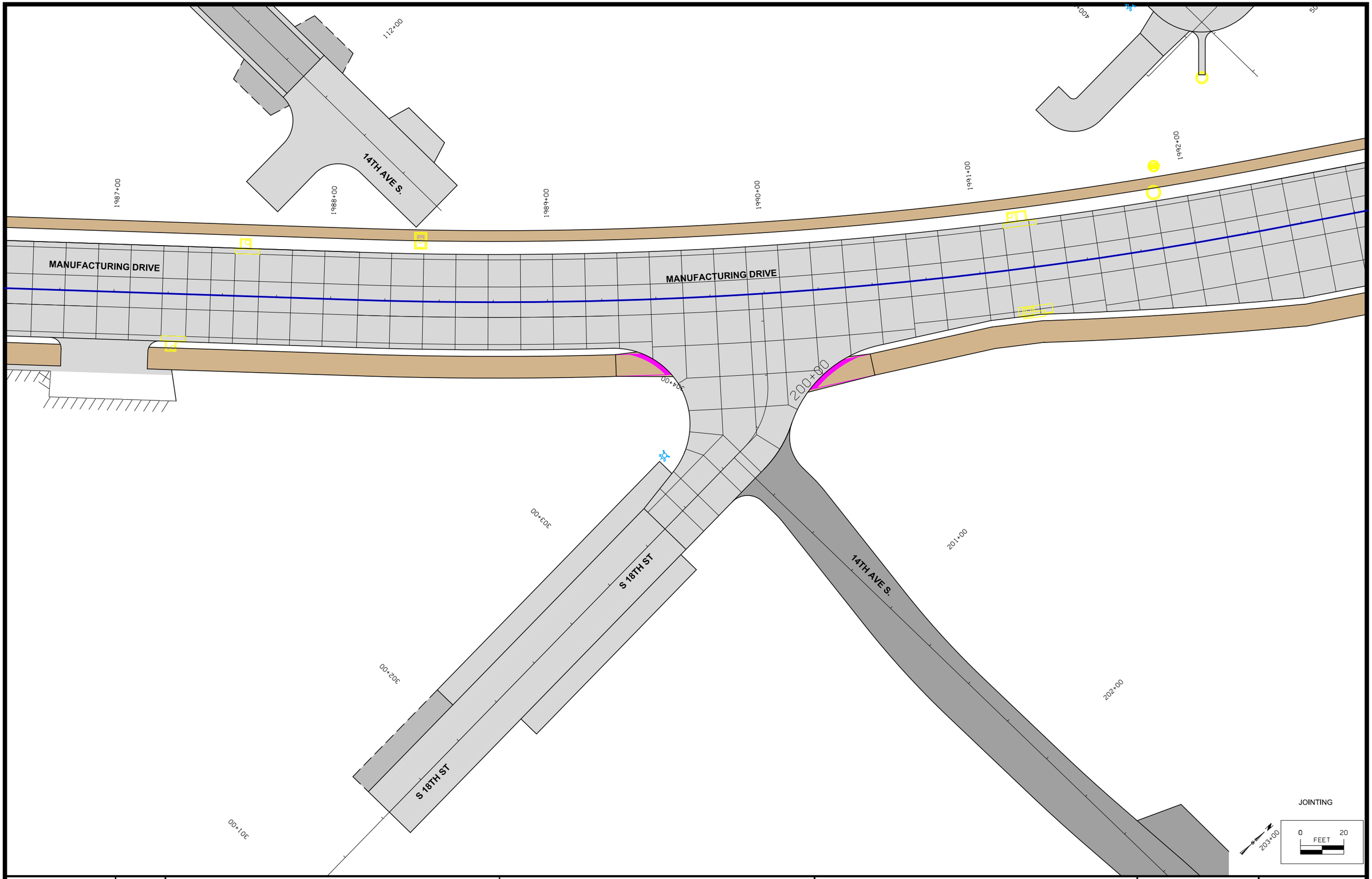


ALL ELEVATIONS ARE FORM GRADE UNLESS OTHERWISE NOTED

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.33	REVISED

2:12:51 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_L33.dgn



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.34	REVISED

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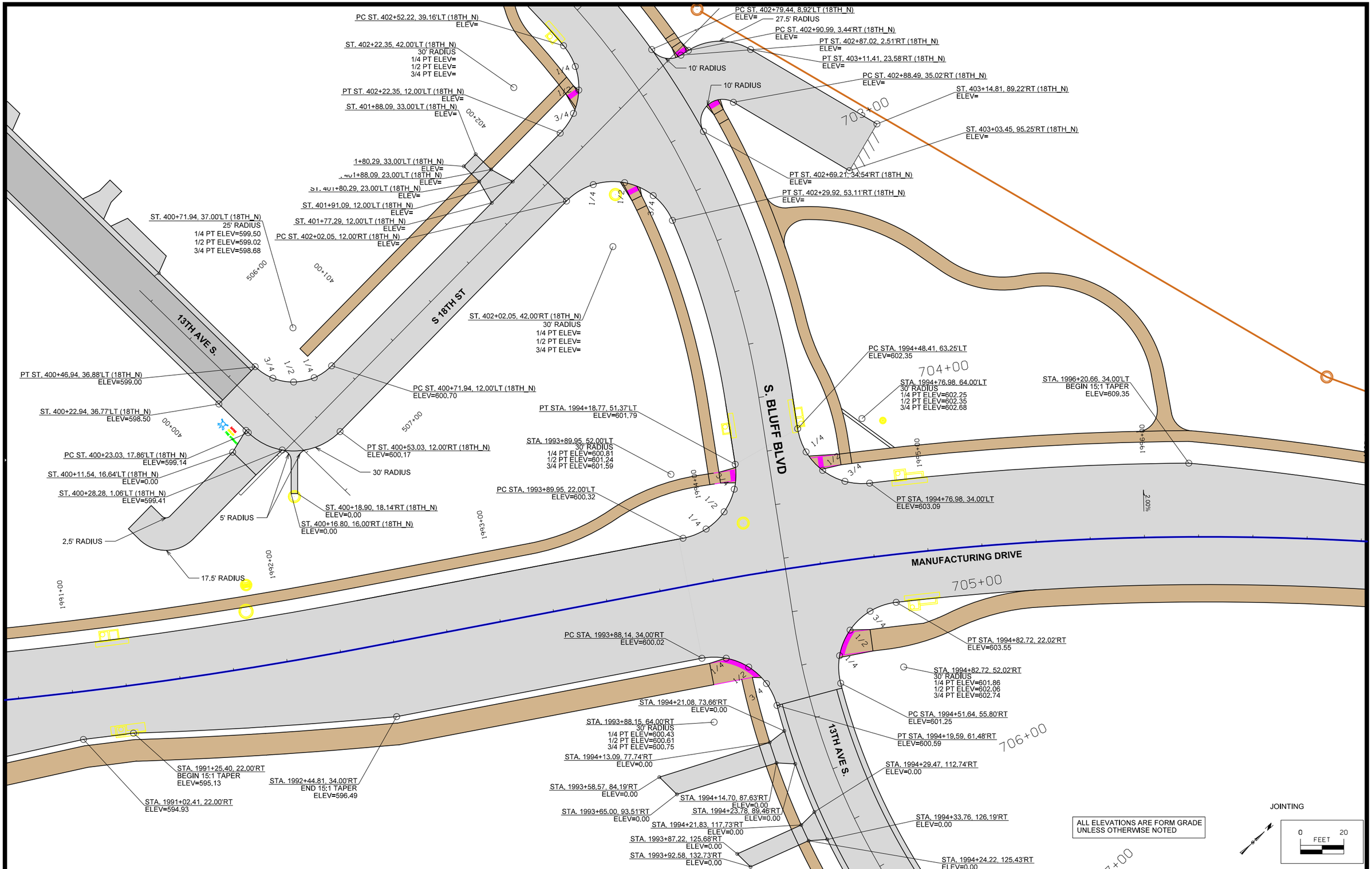

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.35	REVISED

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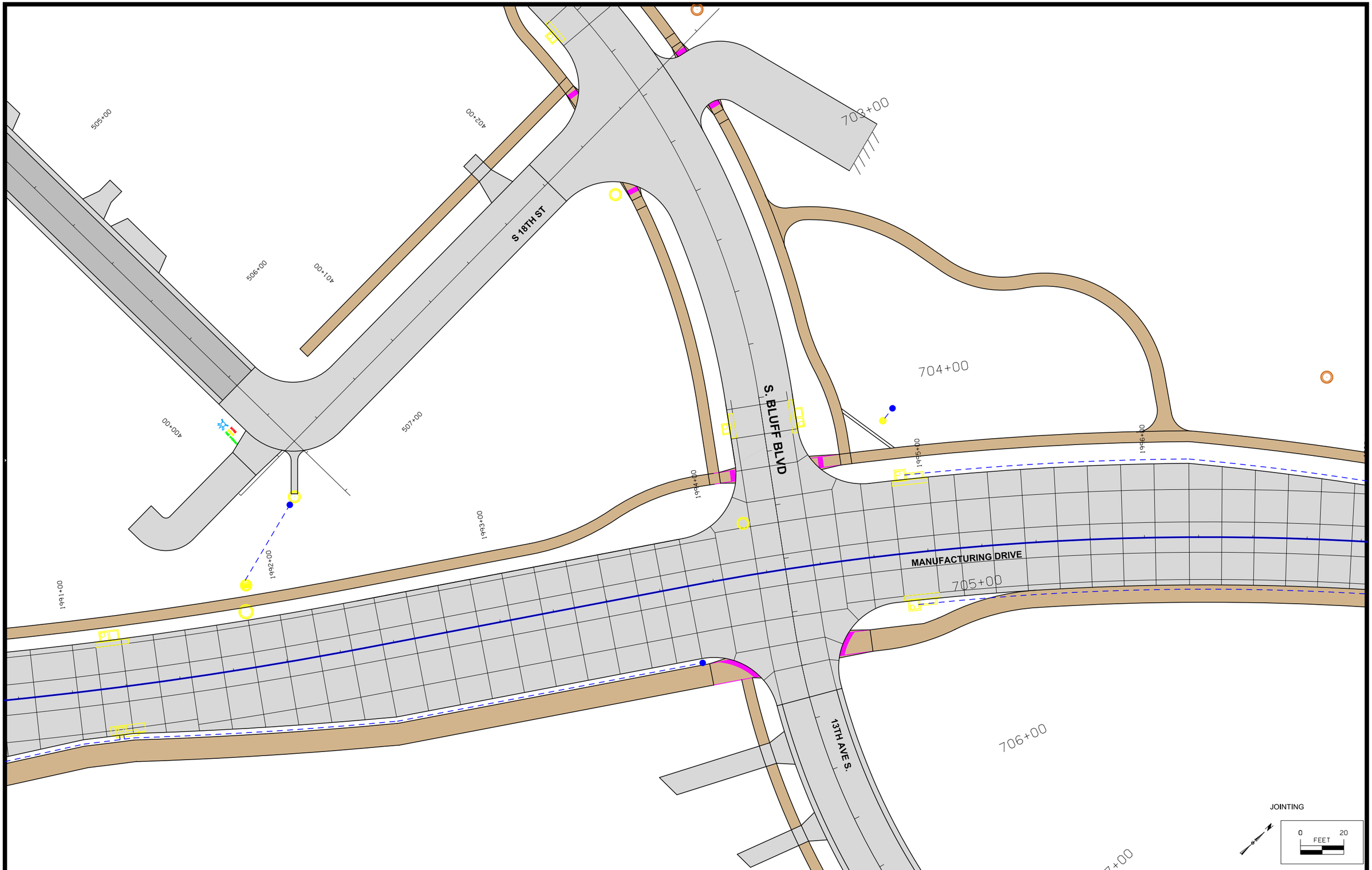

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.36	REVISED

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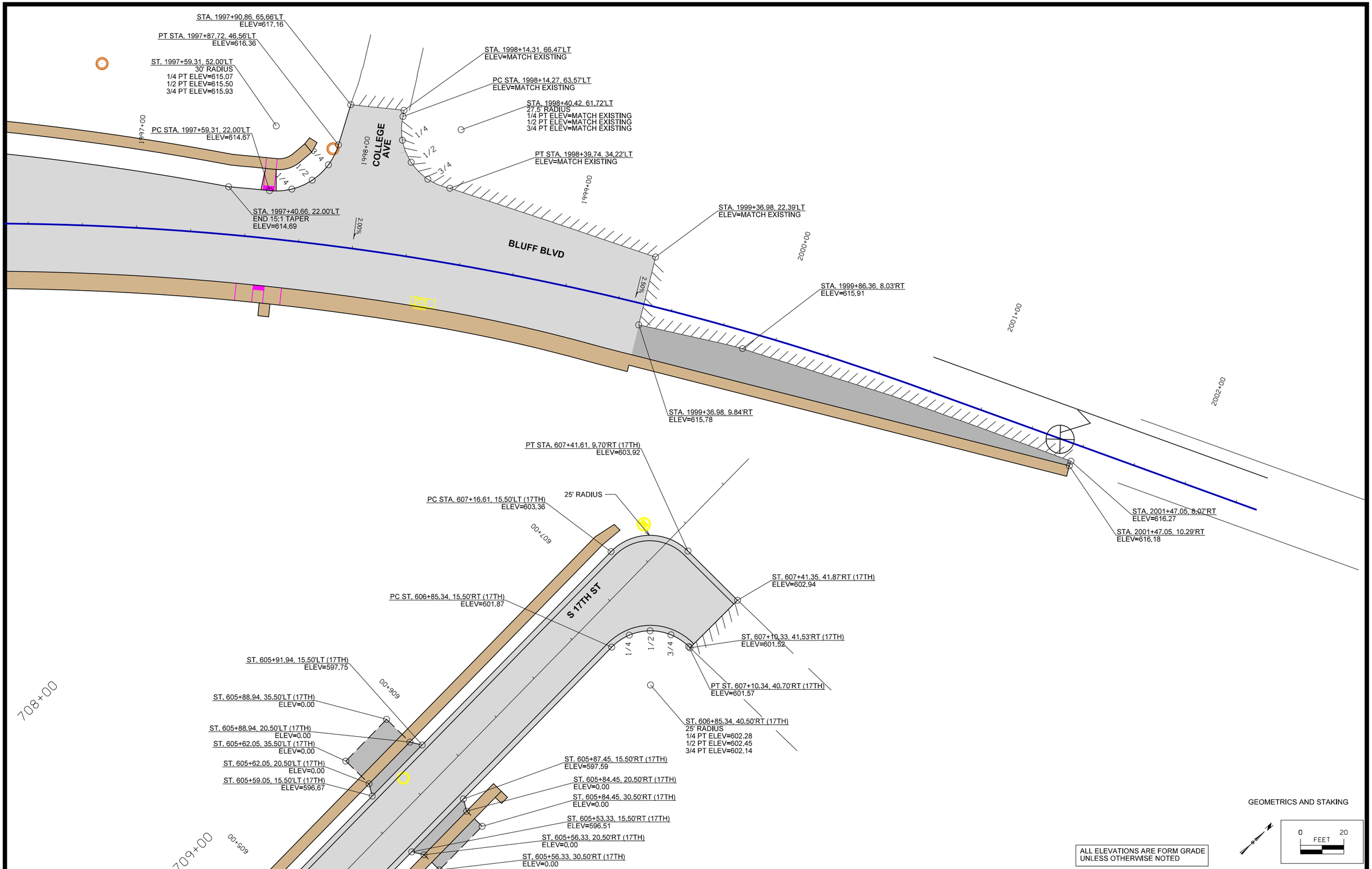
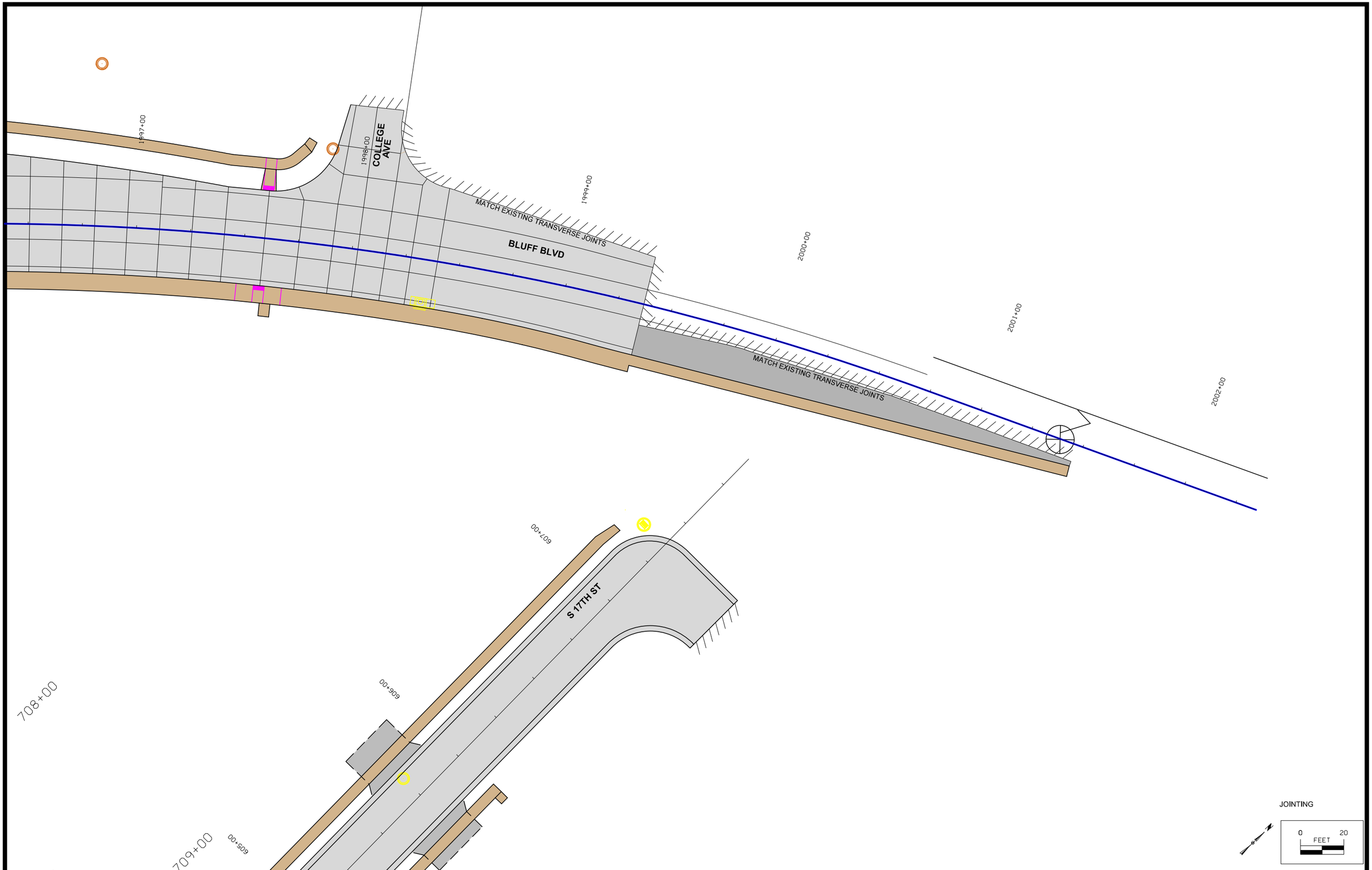


FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.37	REVISED

2:13:02 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_L37.dgn



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.38	REVISED

2:13:03 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_L38.dgn

ALL ELEVATIONS ARE FORM GRADE
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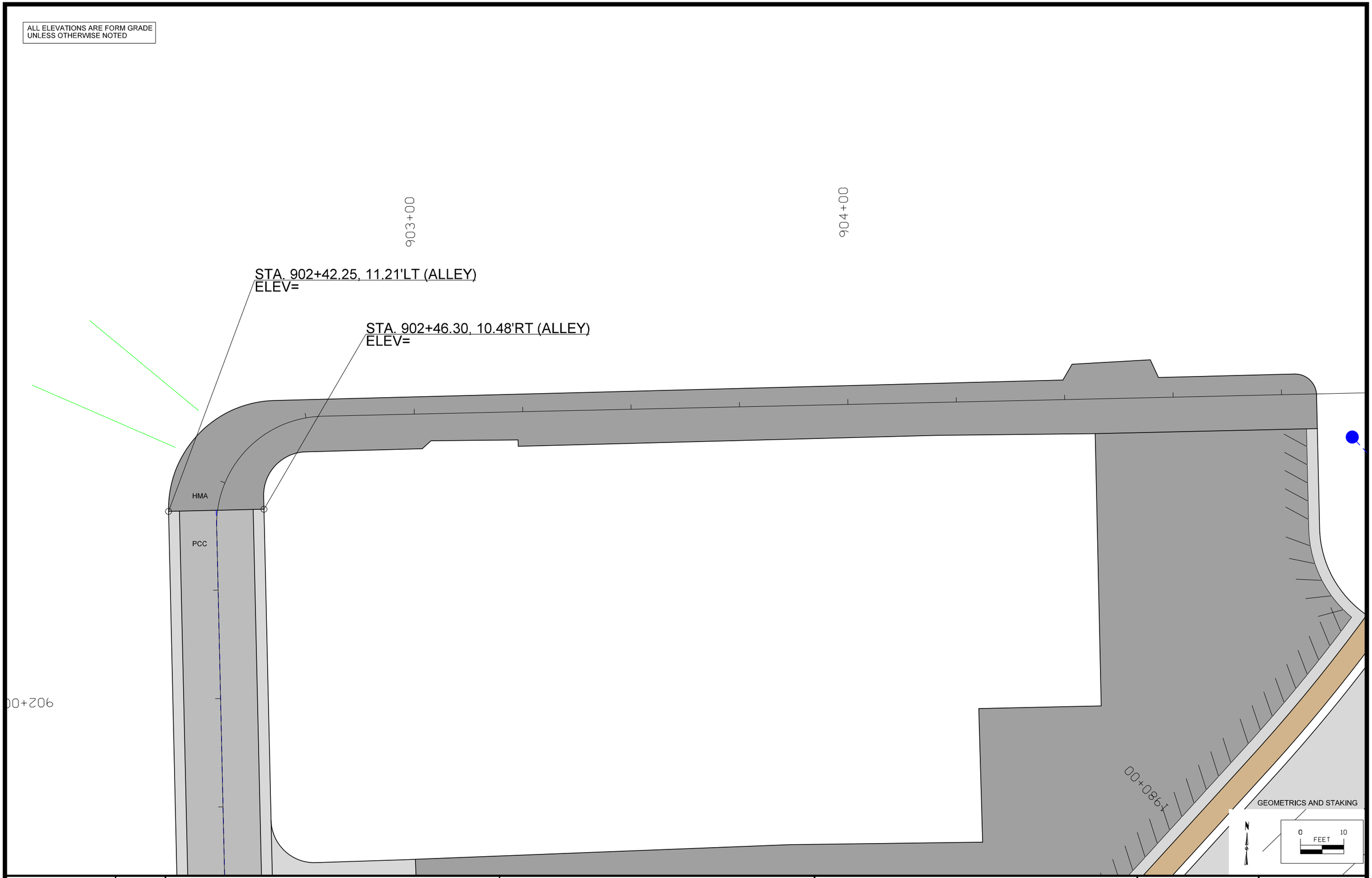

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.39	REVISED

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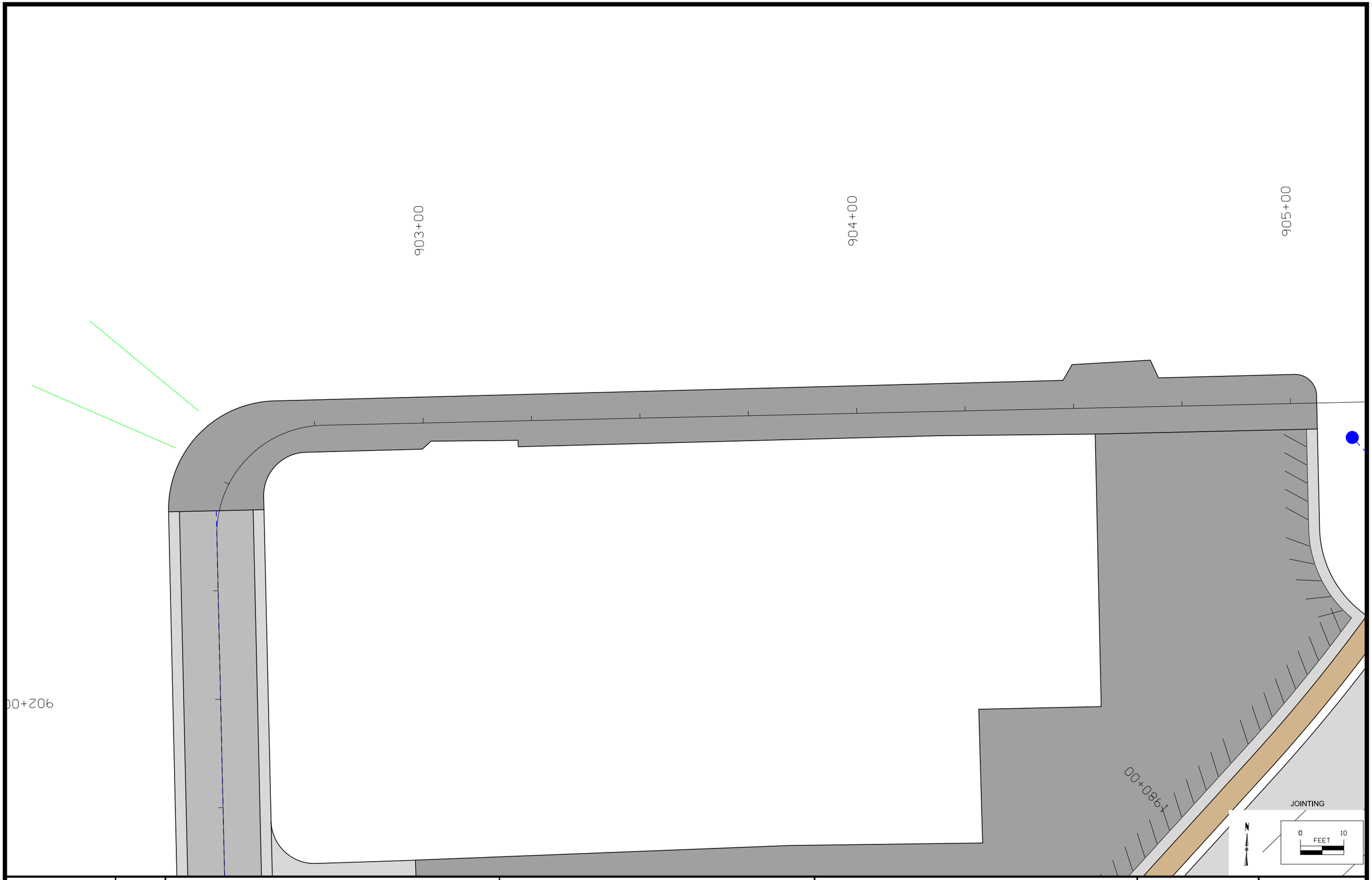

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.40	REVISED

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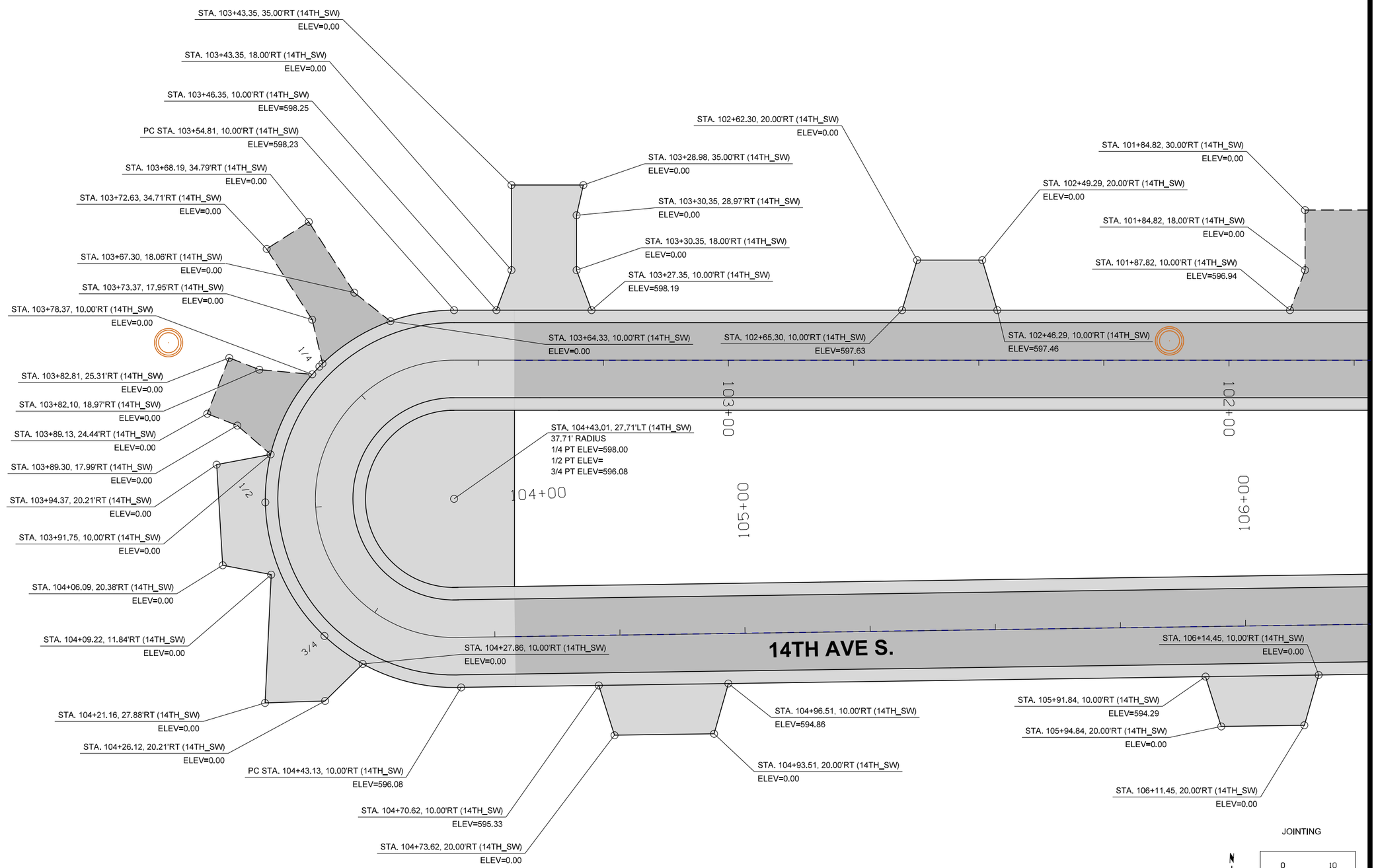

ALL ELEVATIONS ARE FORM GRADE UNLESS OTHERWISE NOTED

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.41	REVISED

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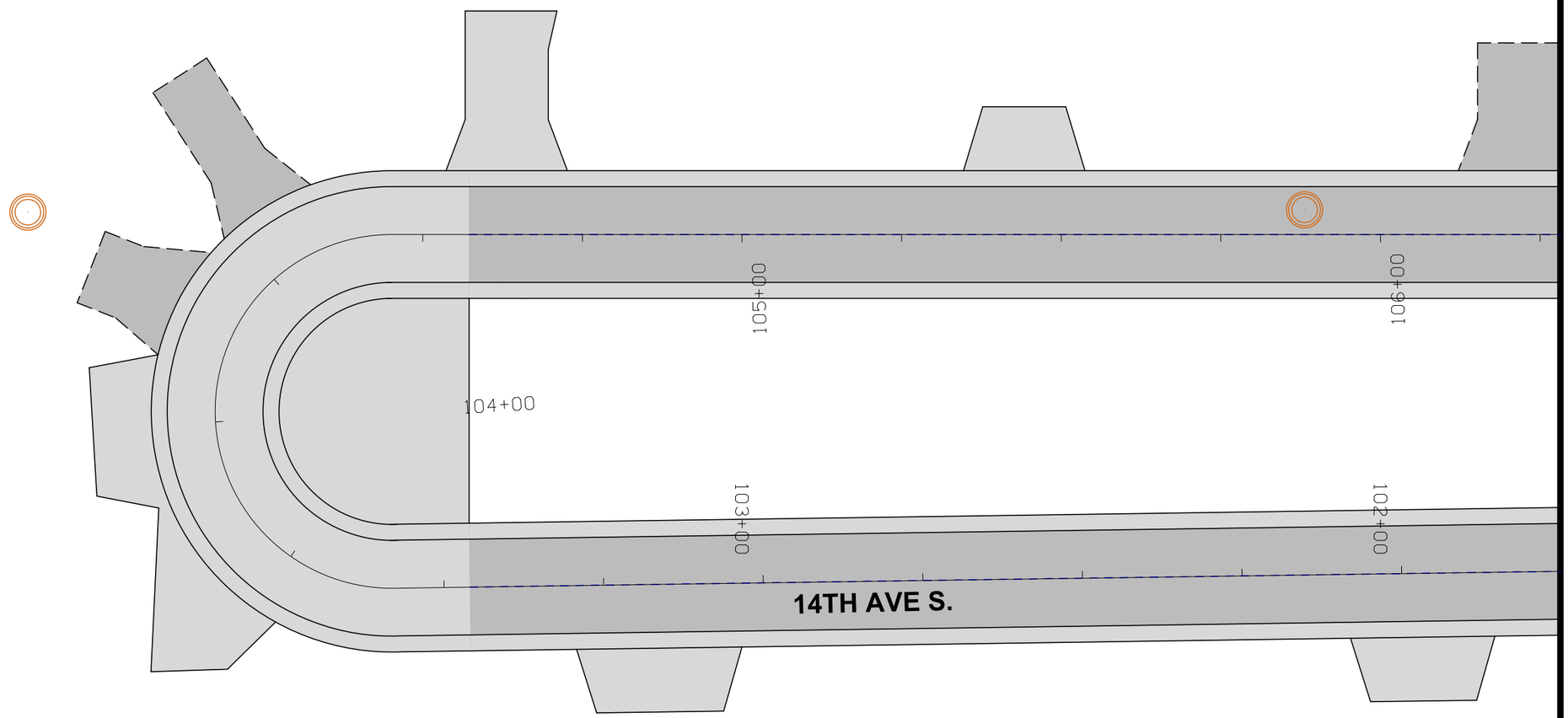

JOINTING

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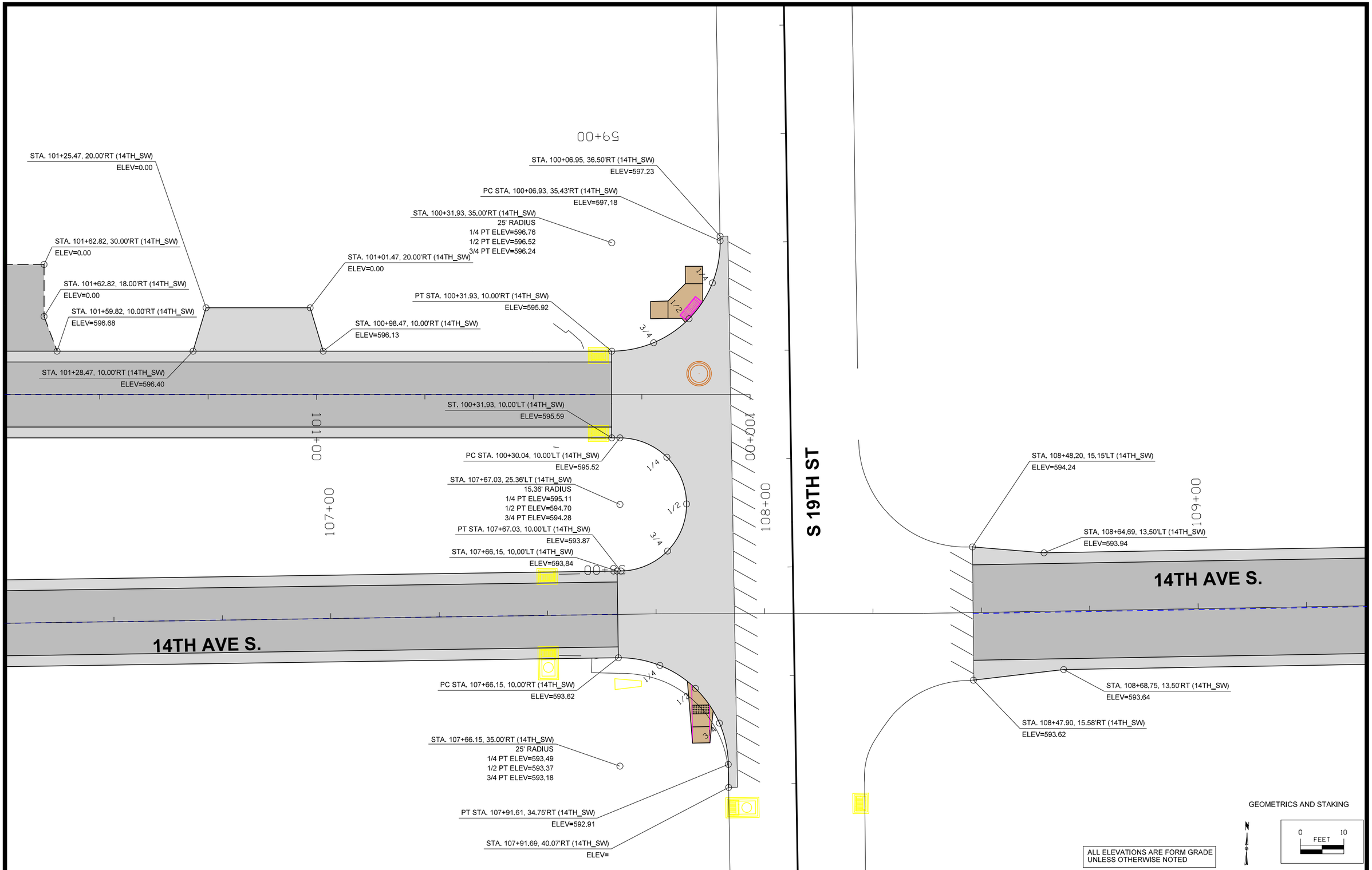
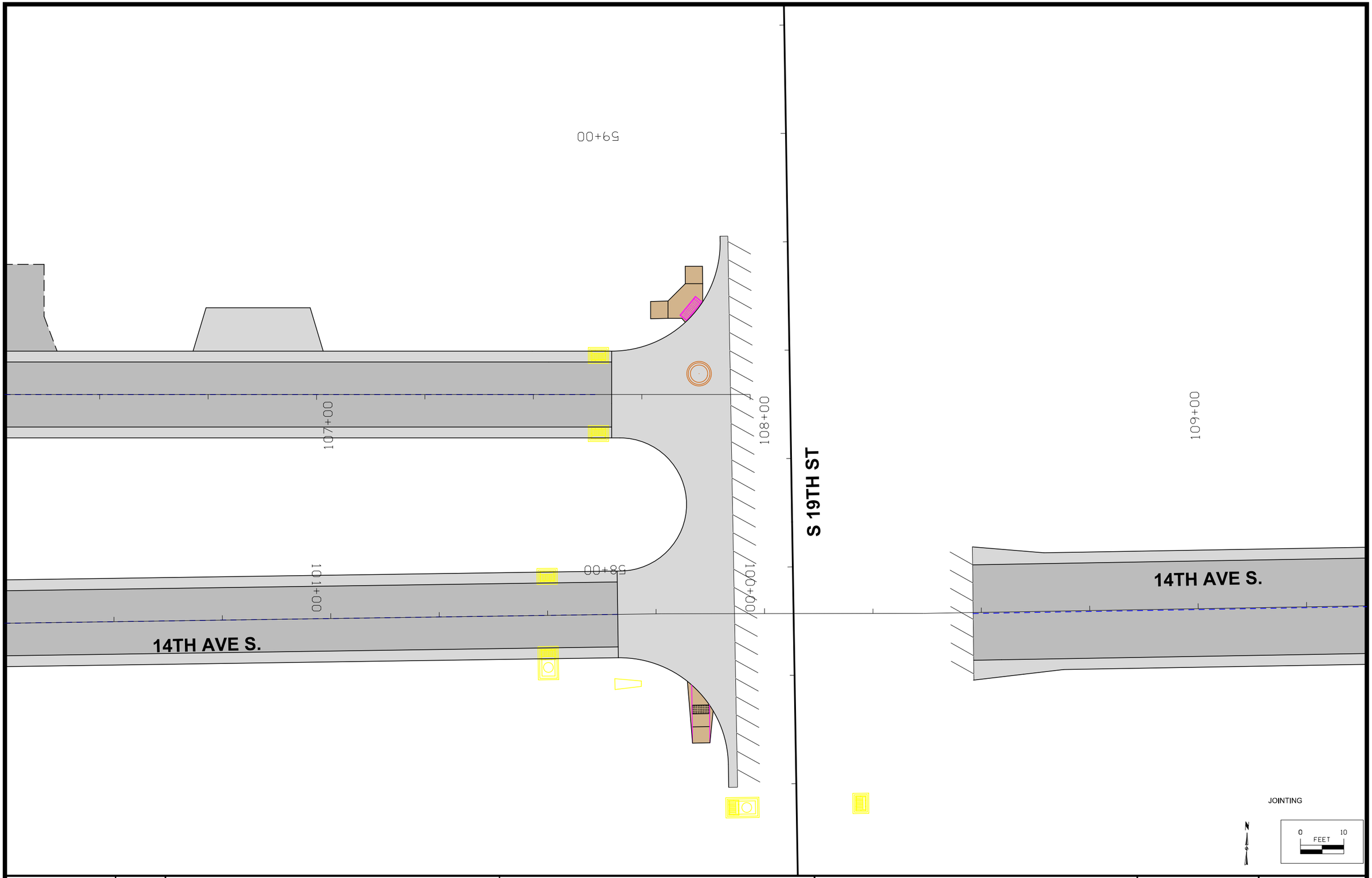
FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.42	REVISED

2:13:14 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_L42.dgn



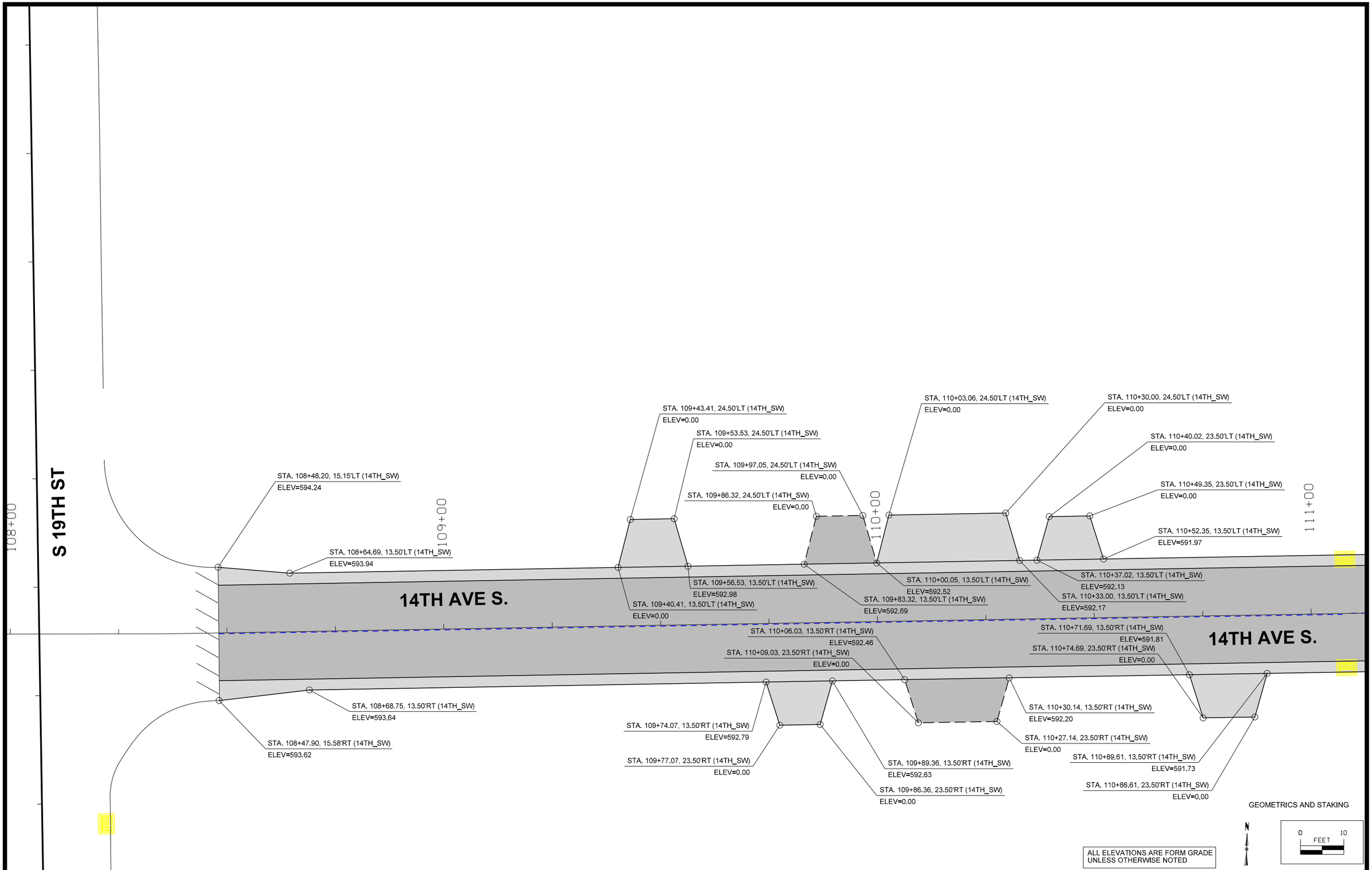
FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.43	REVISED

2:13:15 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_L43.dgn



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.44	REVISED

2:13:16 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_L44.dgn



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.45	REVISED

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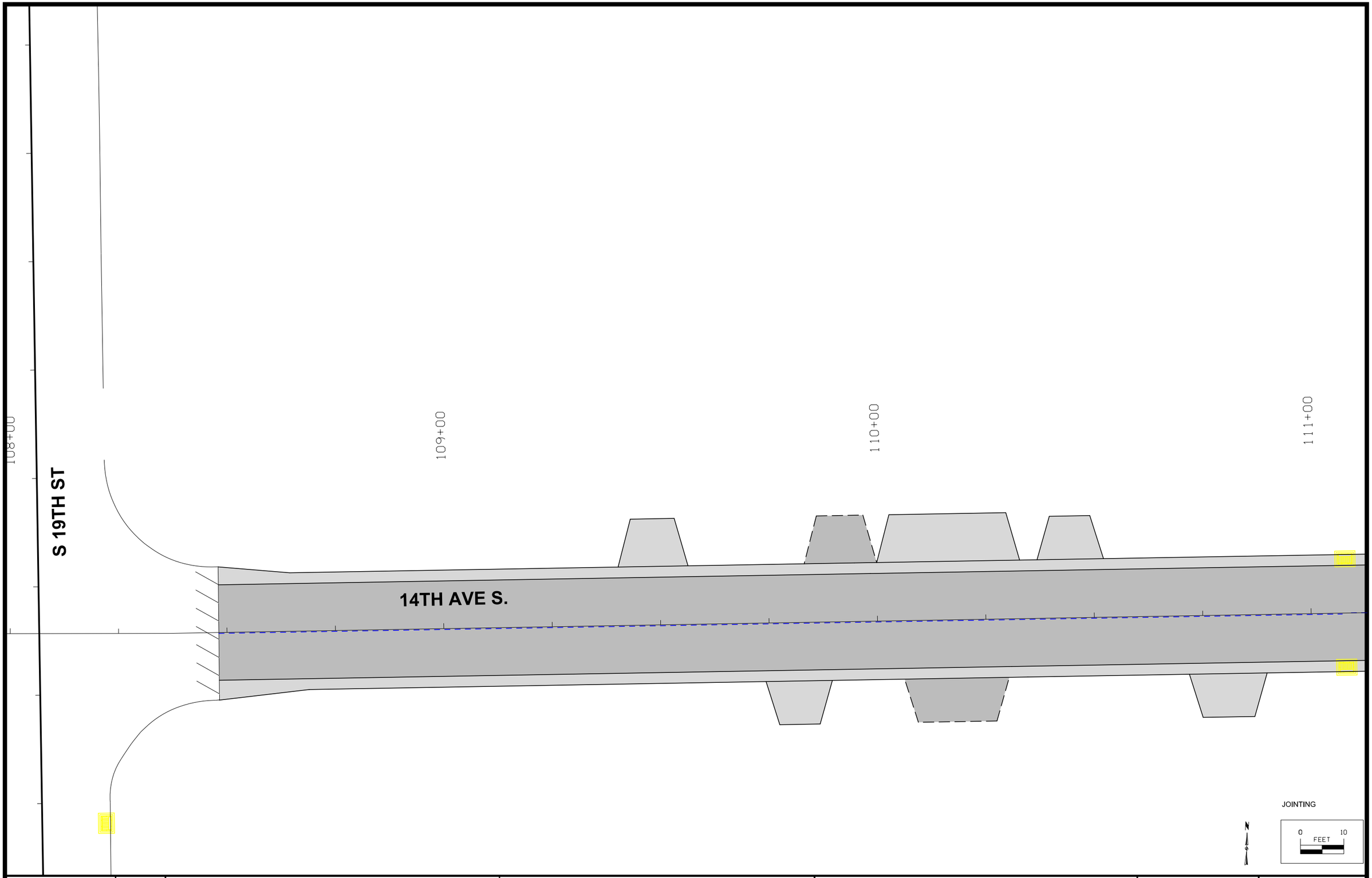

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.46	REVISED

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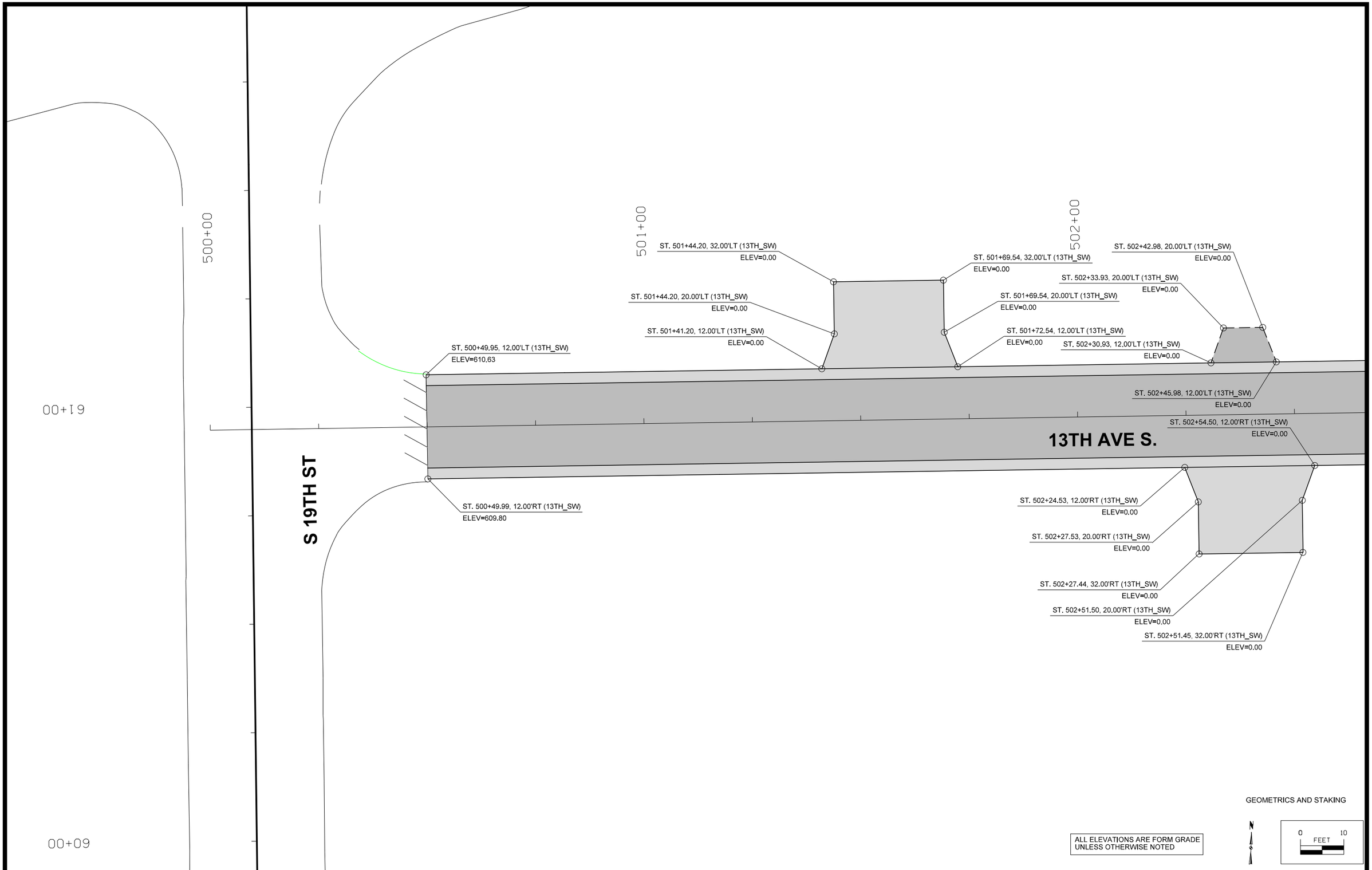

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.47	REVISED

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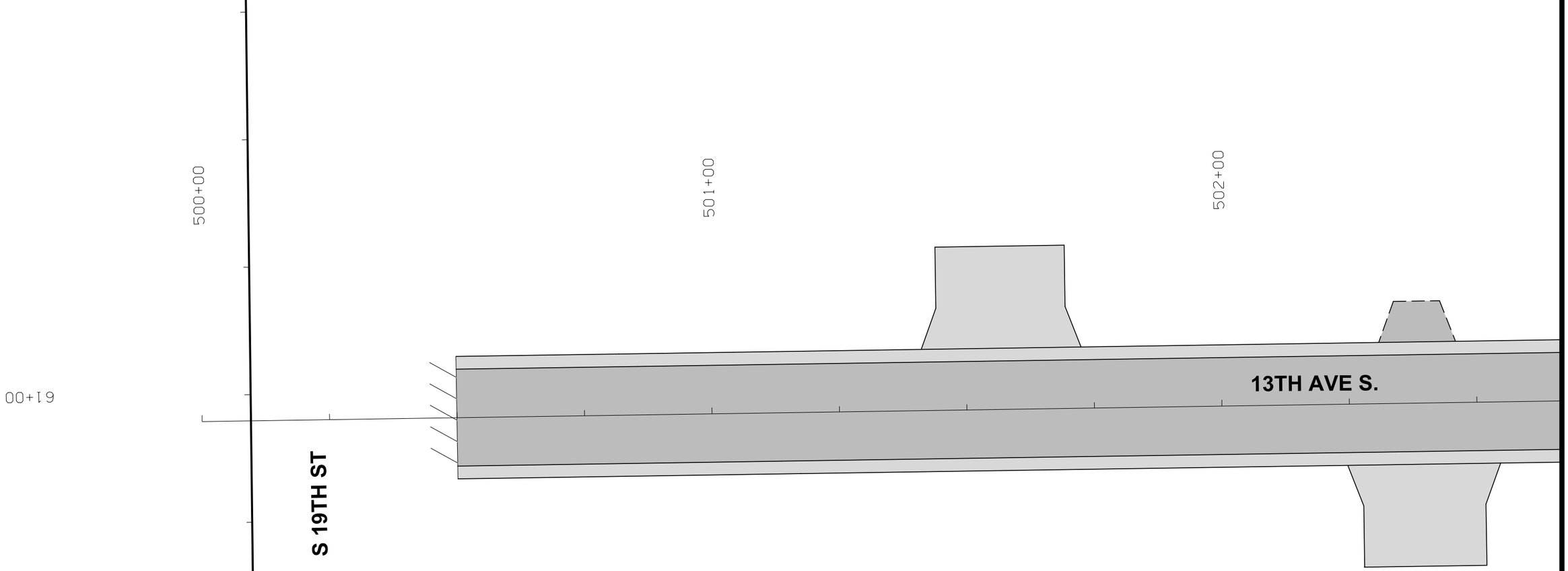

JOINTING

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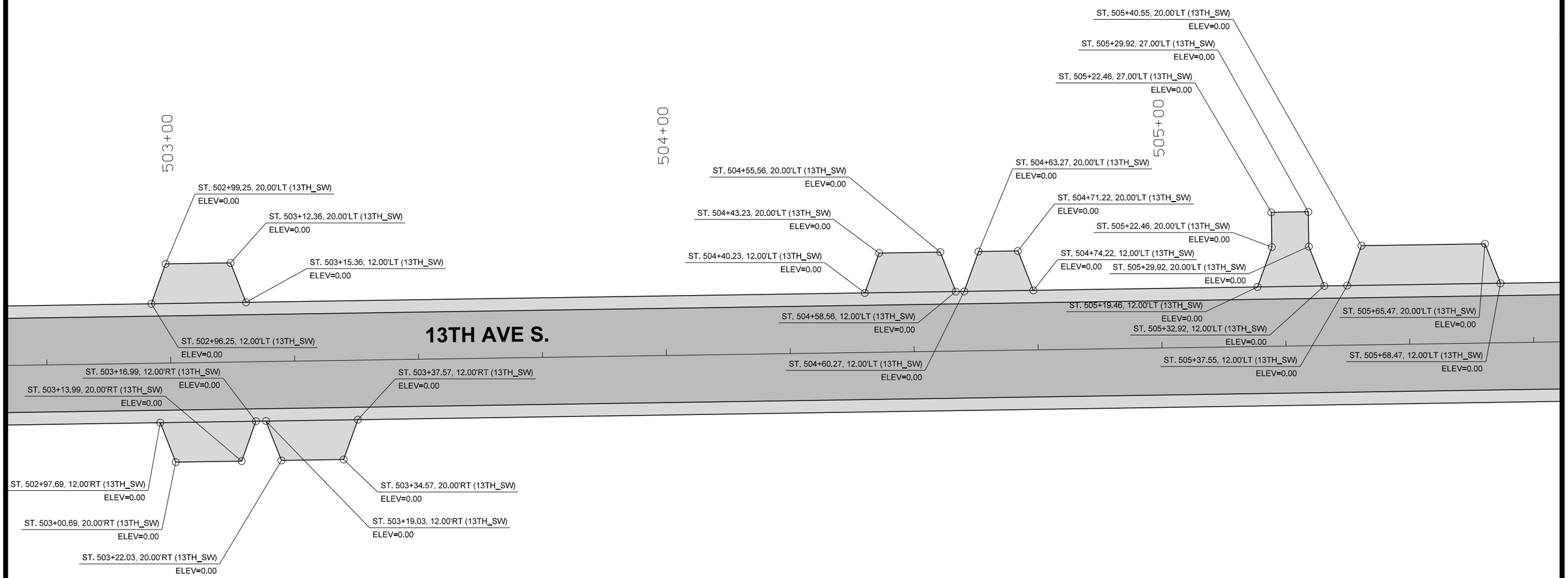
FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.48	REVISED

2:13:27 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_L48.dgn



GEOMETRICS AND STAKING

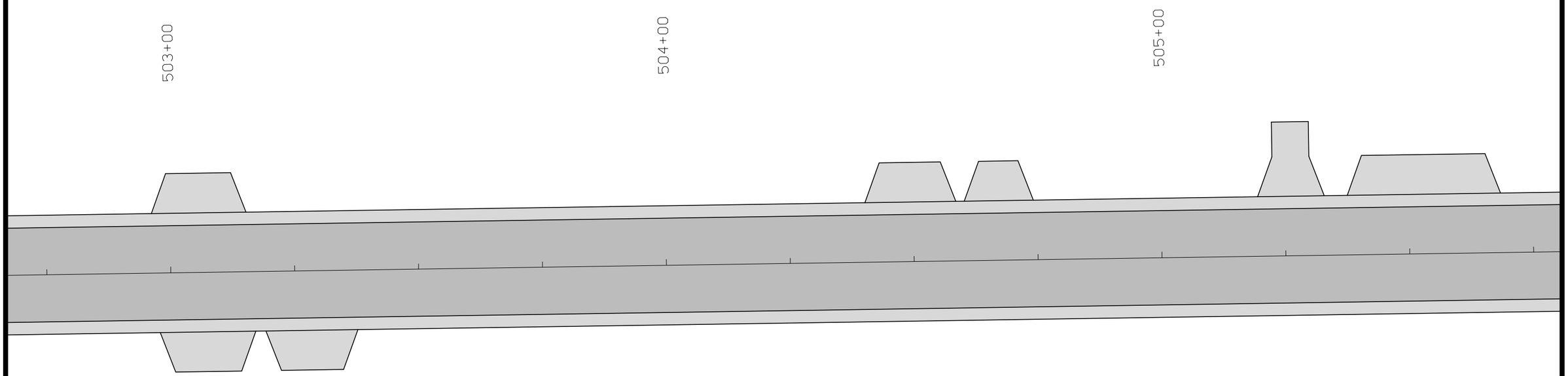
ALL ELEVATIONS ARE FORM GRADE
UNLESS OTHERWISE NOTED

N

0 FEET 10

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.49	REVISED

2:13:33 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_L49.dgn



JOINTING

N

0 10
FEET

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.50	REVISED

2:13:34 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_L50.dgn

700+00

70

ST. 700+50.00, 15.50'LT (13TH_SE)
ELEV=615.83

S. BLUFF BLVD

ST. 700+50.00, 15.50'RT (13TH_SE)
ELEV=615.88

ST. 401+88.09

GEOMETRICS AND STAKING

ALL ELEVATIONS ARE FORM GRADE
UNLESS OTHERWISE NOTED

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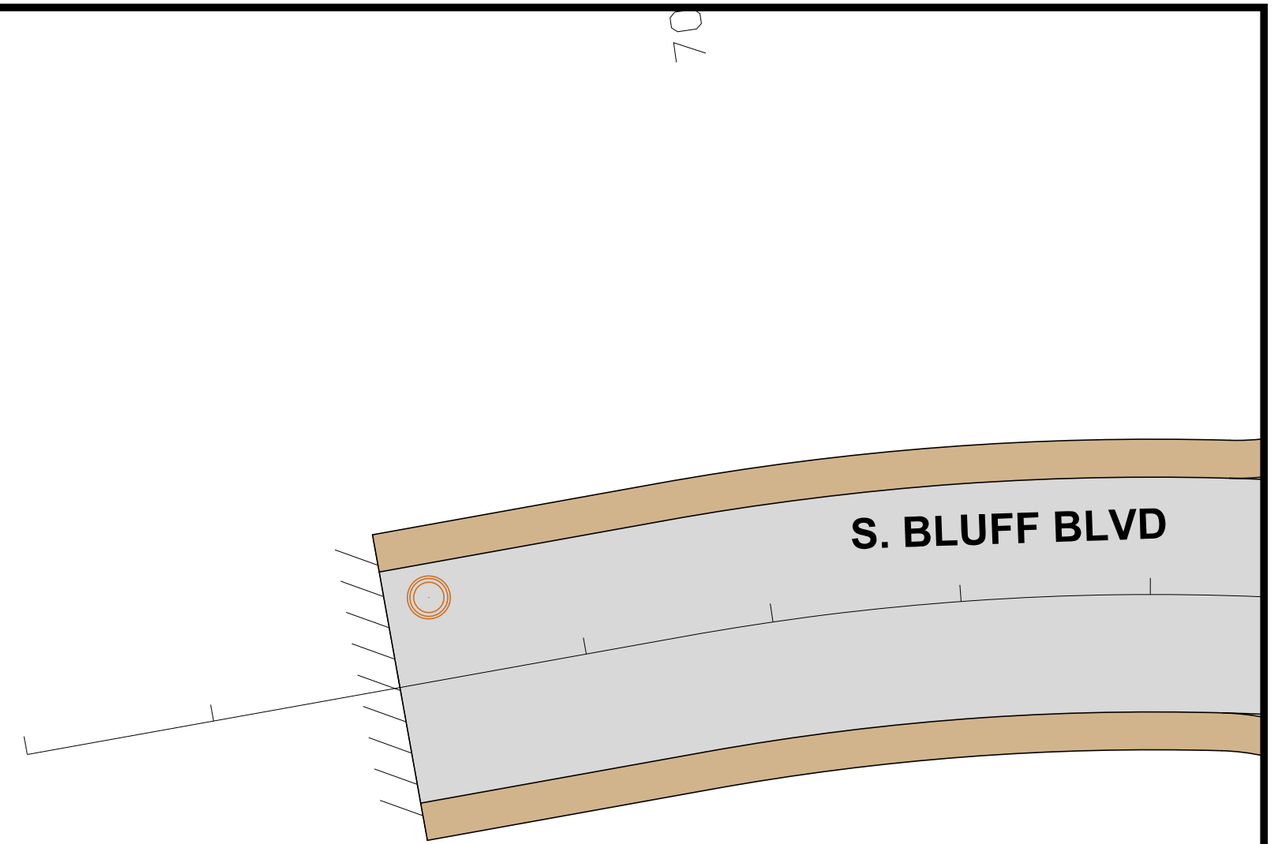
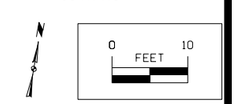
FEET

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.51	REVISED

2:13:36 PM 7/2/2021 sschellch P:\30618011-001\06-Drawings\Civil\Dgns\30618011_L51.dgn

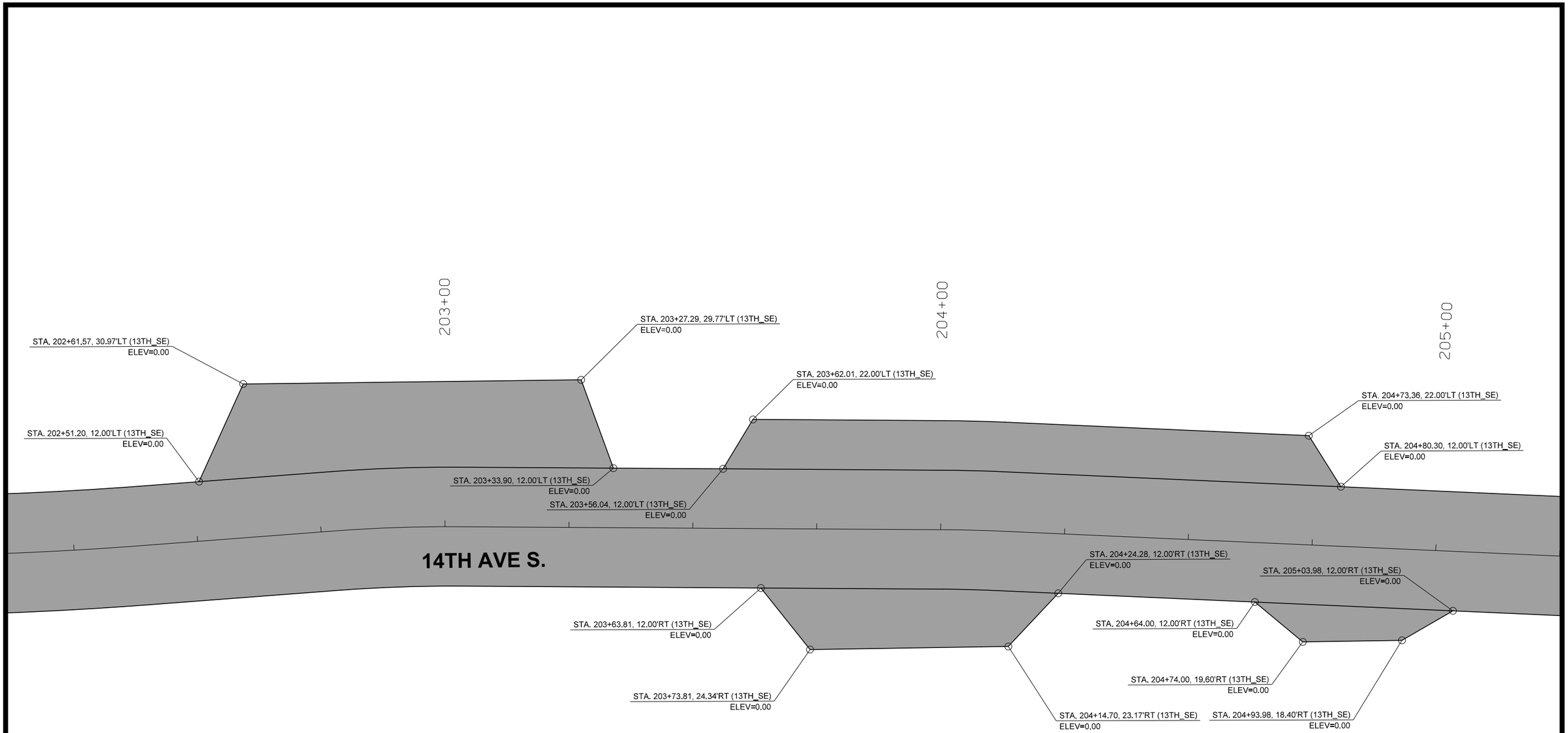


JOINTING



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.52	REVISED

2:13:37 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_L52.dgn



GEOMETRICS AND STAKING

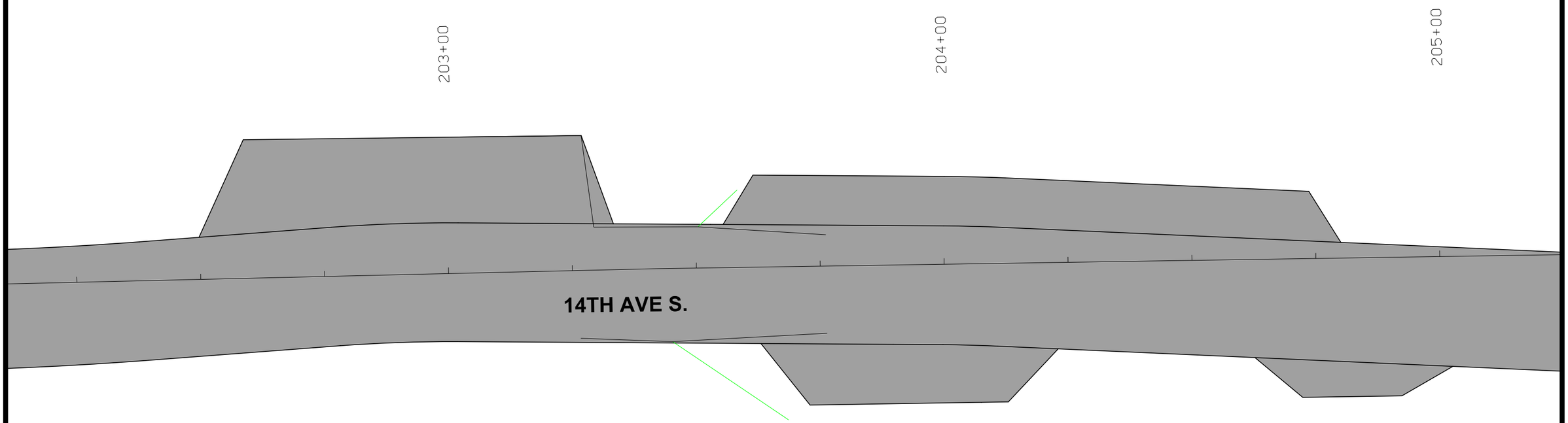
ALL ELEVATIONS ARE FORM GRADE
UNLESS OTHERWISE NOTED

N

0 FEET 10

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.53	REVISED

2:13:38 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_L53.dgn



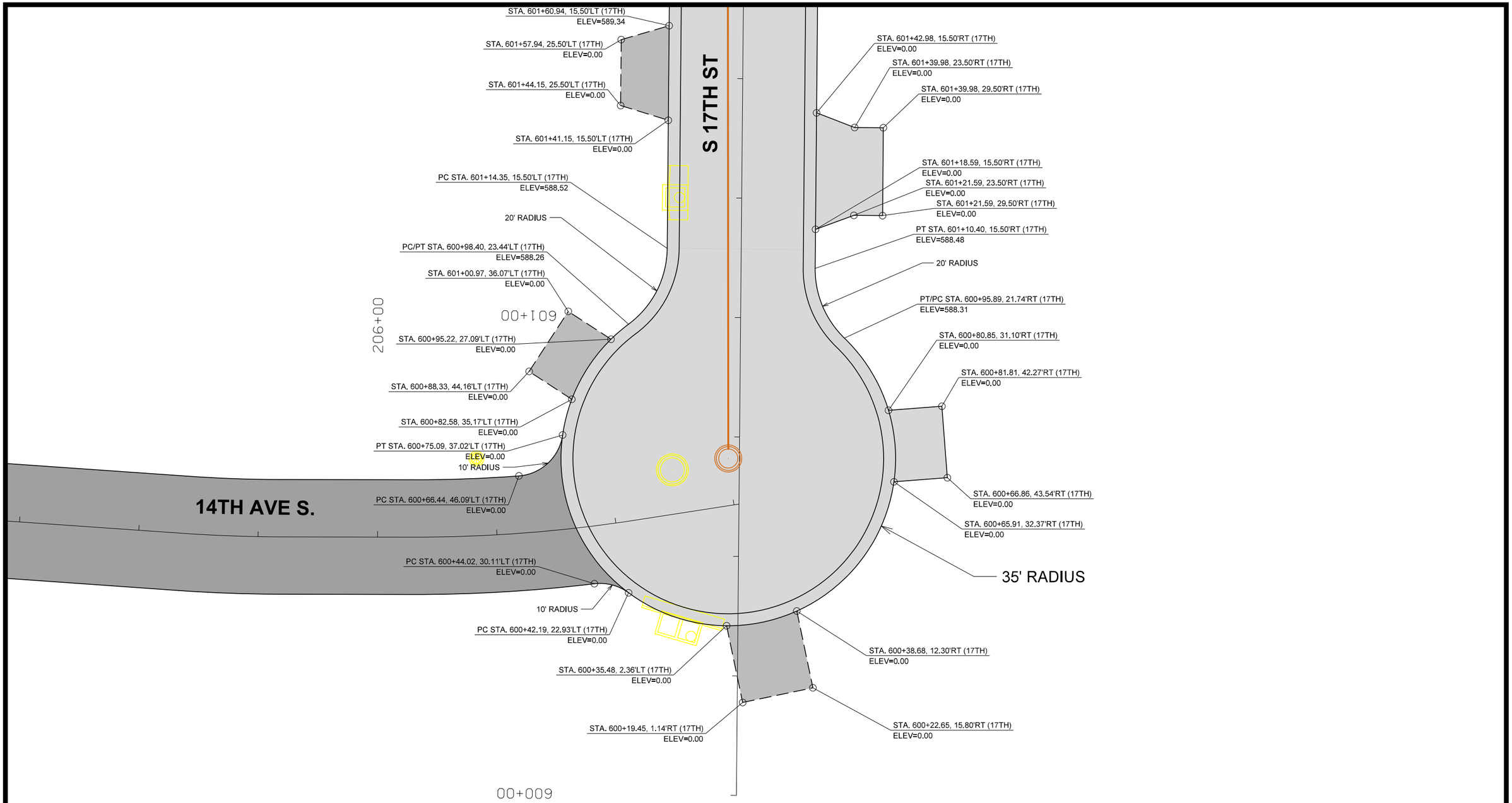
JOINTING

N

0 FEET 10

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.54	REVISED

2:13:44 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_L54.dgn



GEOMETRICS AND STAKING

ALL ELEVATIONS ARE FORM GRADE
UNLESS OTHERWISE NOTED

N

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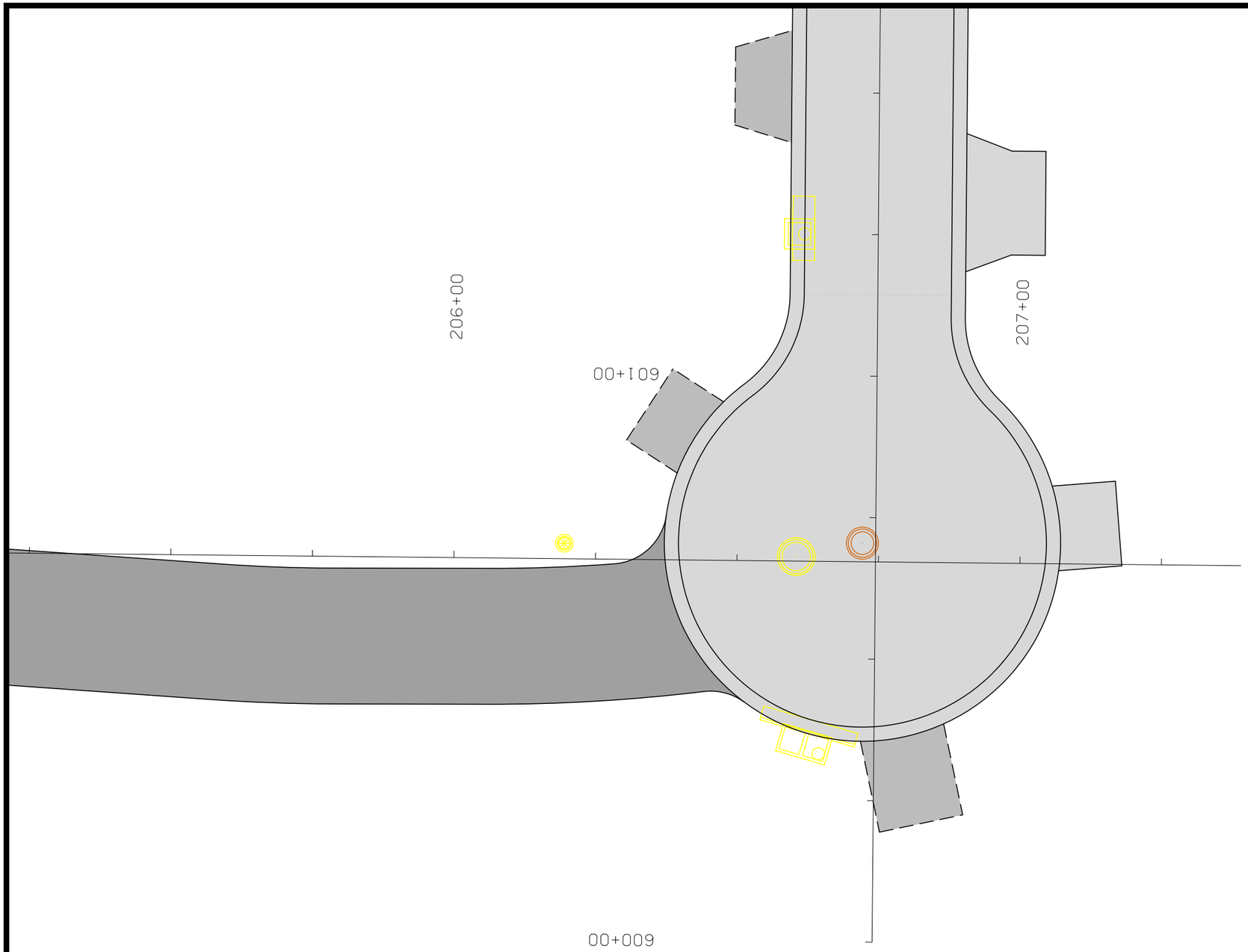
FEET

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.55	REVISED

2:13:45 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_L55.dgn



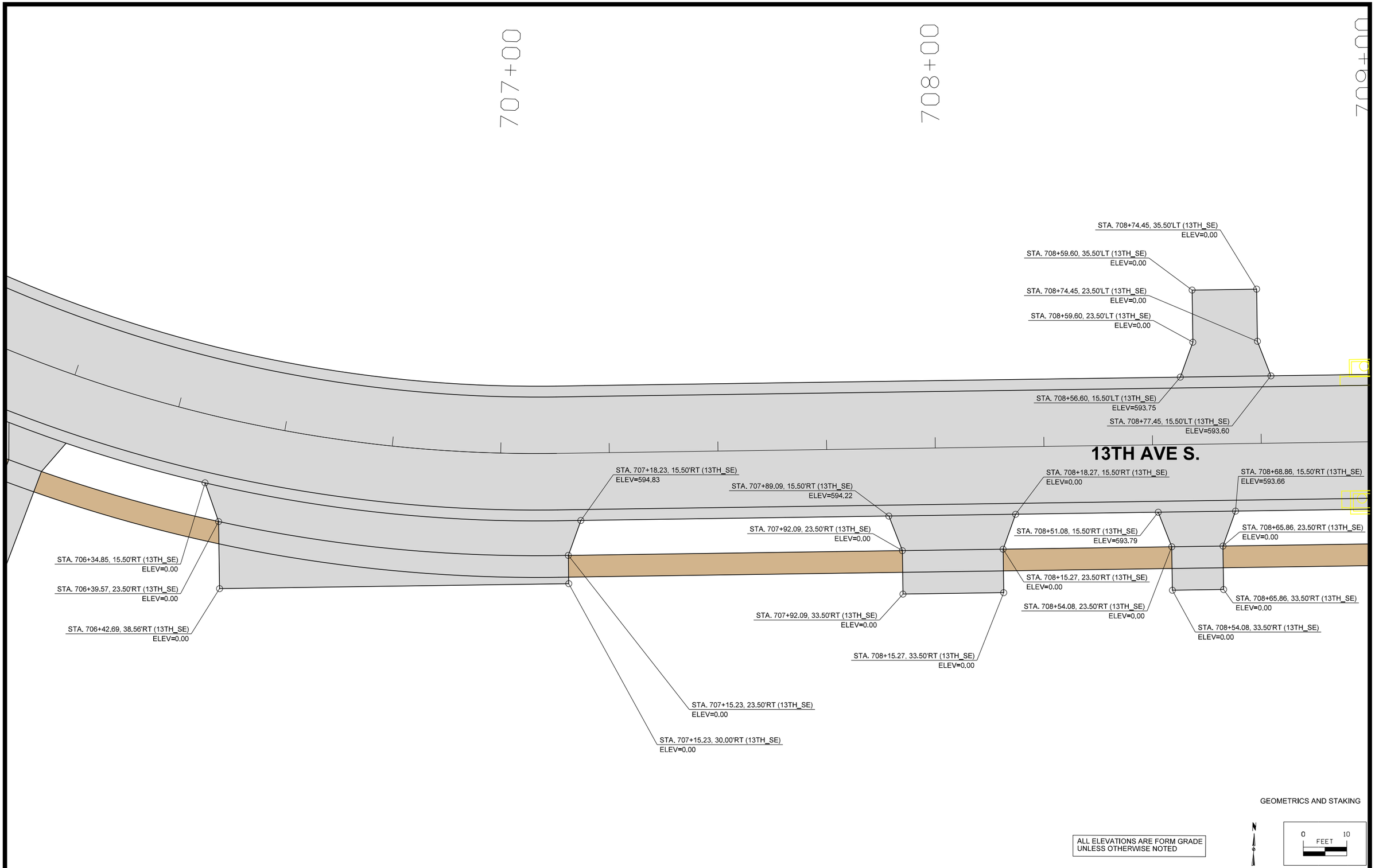
JOINTING

N

0 FEET 10

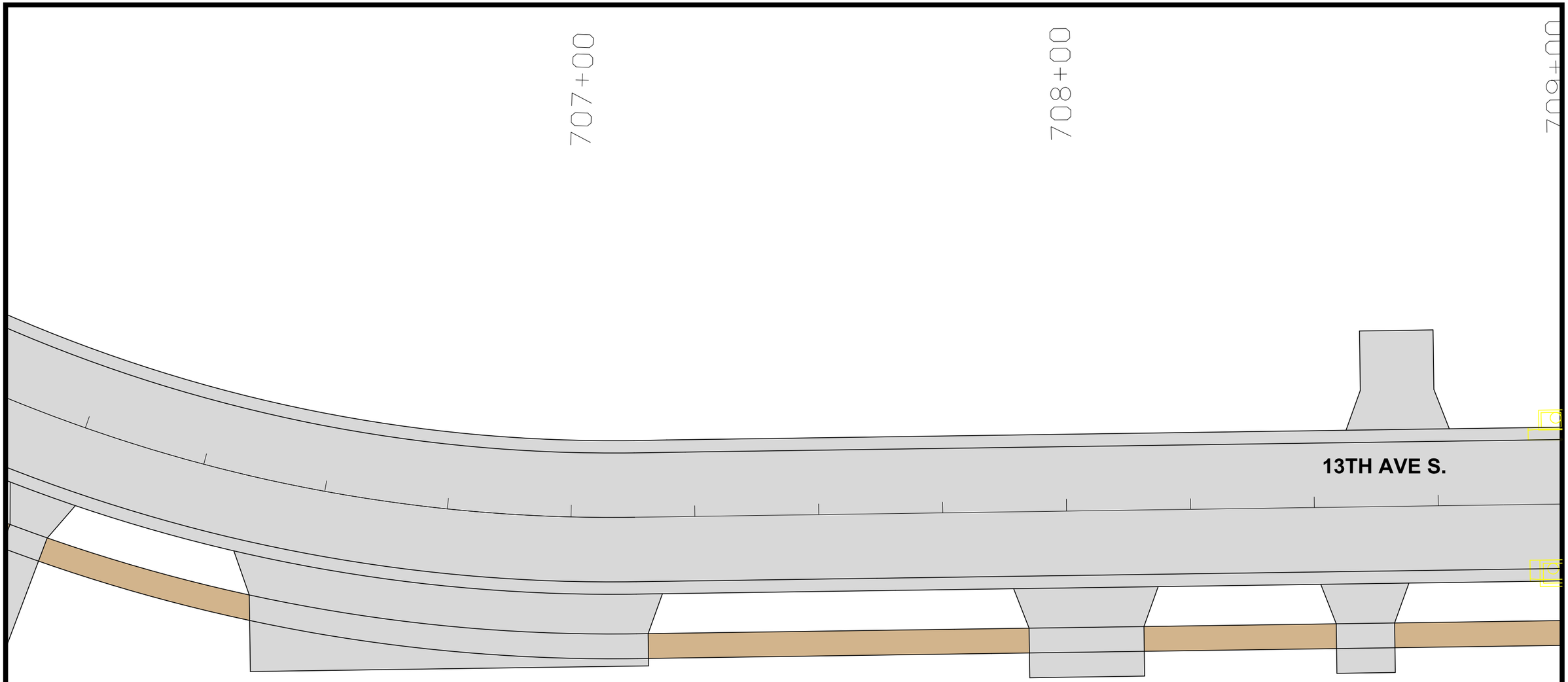
FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.56	REVISED

2:13:47 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_L56.dgn



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.57	REVISED

2:13:48 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_L57.dgn



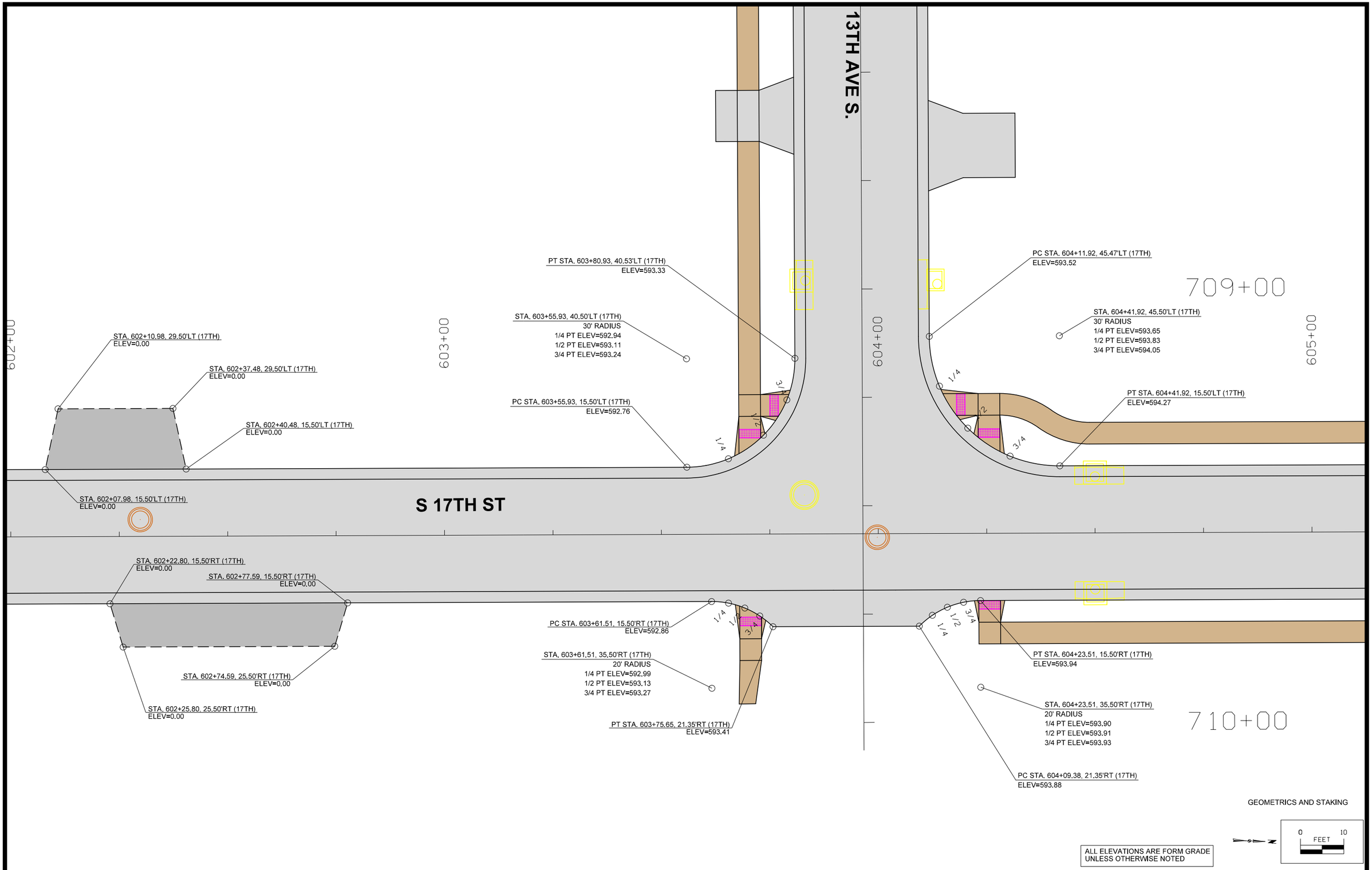
JOINTING

N

0 10
FEET

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.58	REVISED

2:13:49 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_L58.dgn



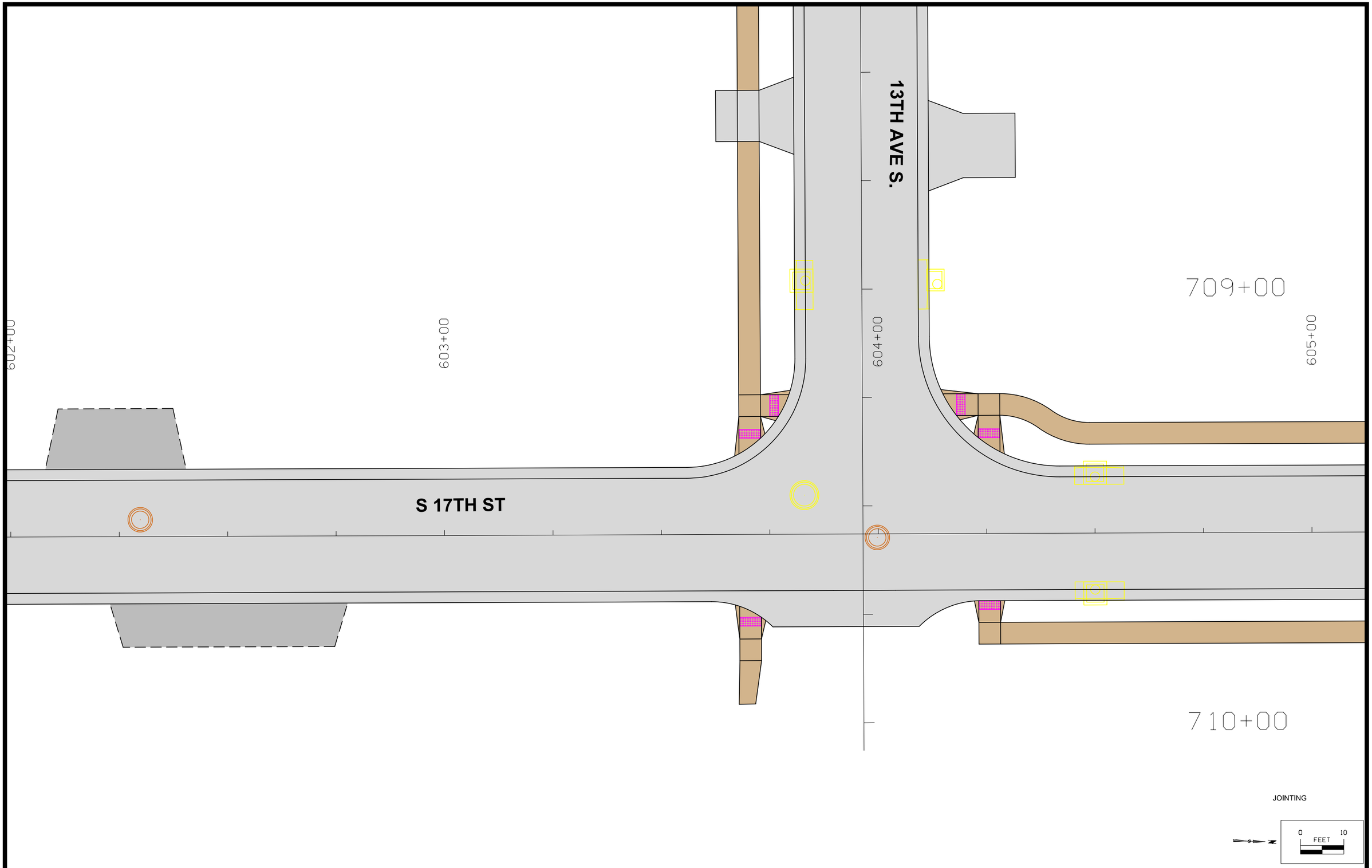
GEOMETRICS AND STAKING

ALL ELEVATIONS ARE FORM GRADE
UNLESS OTHERWISE NOTED

0 10
FEET

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.59	REVISED

2:13:50 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_L59.dgn



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER L.60	REVISED

2:13:51 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_L60.dgn

STORM SEWER

(1) Diameter or equivalent diameter
* Bid Item
** For SW-545

INTAKES AND UTILITY ACCESSES

No.	Location Station and Offset	*Type or Standard Road Plan	Form Grade Elev.	Bottom Well Elev.	Extension Length** FT	Notes
S-1	1942+82.50, 16.80' RT	SW-507	593.28	589.14		
S-2	1942+81.51, 16.72' LT	SW-507	593.28	588.7		
S-3	1942+82.50, 72.00' LT	SW-211	585.74	N/A		
S-10	1949+58.13, 45.01' RT	SW-502 (48")	592.74	588.74		
S-11	1949+60.00, 22.00' RT	SW-507	593.53	588.3		
S-12	1949+80.00, 34.00' LT	SW-507	593.45	587.6		
S-13	1948+29.50, 22.00' RT	SW-509	592.79	588.29		
S-14	1948+29.50, 22.15' LT	SW-510	592.79	586.27		
S-15	1948+24.25, 68.95' LT	DR-201 (24")	586.4	N/A		
S-20	1964+86.56, 93.10' LT	SW-505	588.99	586.59		
S-21	1964+35.72, 107.67' LT	SW-506	588.46	586.01		
S-21A	1964+22.42, 97.15' LT	DR-201 (15")	588.46	N/A		
S-21B	1963+75.78, 59.86' LT	SW-211	590.08	585.65		
S-22	1963+68.39, 52.66' LT	SW-401 (48")	590.08	585.41		
S-23	1962+20.00, 34.28' RT	SW-509	588.69	585.7		
S-24	1962+20.00, 22.00' LT	SW-541	588.93	585.35		
S-25	1962+20.00, 53.00' LT	SW-512 (30" Type 5 Casting)	588.31	585.11		
S-26	1959+76.00, 48.00' LT	SW-512 (30" Type 5 Casting)	588.88	584.49		
S-27	1958+24.00, 22.00' RT	SW-509	592.43	588.37		
S-28	1958+24.00, 22.00' LT	SW-507	592.43	585.64		
S-29	1958+24.00, 41.00' LT	SW-401 (48")	592.67	584.19		
S-30	1956+63.00, 34.00' LT	SW-401 (48")	595.42	583.82		
S-31	1955+83.53, 46.32' RT	DR-201 (24")	582.75	N/A		
S-50	1970+00.00, 22.00' LT	SW-509	587.67	583.12		
S-51	1970+00.00, 22.00' RT	SW-509	587.67	582.28		
S-52	1972+11.79, 49.00' LT	SW-512 (24" Type 3B Casting)	586.68	582.83		
S-53	1980+90.54, 60.81' LT	SW-512 (24" Type 3B Casting)	587.96	584.69		
S-54	10002+69.00, 25.00' LT	SW-502 (48")	588.28	584.32		
S-55	1980+95.59, 44.41' LT	SW-401 (60")	588.49	583.71		
S-56	1977+72.00, 46.00' LT	SW-512 (24" Type 3B Casting)	585.5	582.85		
S-57	1977+72.00, 22.00' LT	SW-509	586.49	582.66		
S-58	1977+72.00, 22.00' RT	SW-509	586.49	582.38		
S-59	1974+50.00, 49.00' LT	SW-512 (24" Type 3B Casting)	587.38	582.88		
S-60	1974+35.00, 22.00' LT	SW-507	586.63	582.5		
S-61	1974+35.00, 26.12' RT	SW-507	587.67	581.62		
S-62	1972+21.00, 30.00' RT	SW-402 (4' x 6')	589.27	580.4		
S-63	14+12.88, 7.50' LT	SW-401 (72")	586.13	579.49		
S-64	10+12.84, 7.50' LT	SW-401 (72")	584.23	578.69		
S-65	6+12.86, 7.50' LT	SW-401 (72")	583.84	577.89		
S-66	2+13.70, 7.50' LT	SW-401 (84")	586.33	577.09		
S-67	1+75.98, 30.06' RT	DR-201 (48")	577.5	N/A		
S-70	1973+49.01, 66.16' LT	SW-501	587.91	585.54		
S-71	1973+07.90, 65.93' LT	SW-502 (48")	587.58	585.23		
S-72	1972+91.09, 52.00' LT	DR-201 (15")	587.34	N/A		
S-80	1977+55.55, 186.43' LT	SW-512 (24" Type 4B Casting)	586.58	585.08		
S-81	1978+19.00, 114.86' LT	DR-201 (15")	585.13	N/A		
S-90	7051+11.00, 19.00' LT	SW-501	585.36	582.43		
S-91	6051+10.00, 18.00' RT	SW-541	585.71	582.37		
S-92	6052+07.50, 21.73' RT	SW-507	587.72	582.19		
S-93	7052+40.55, 268.55' RT	DR-201 (24")	582.2	N/A		
S-100	1+83.00, 15.50' LT	SW-501	587.82	584.87		
S-101	1+75.00, 15.00' RT	SW-211		584.73		
S-102	1+83.00, 15.50' RT	SW-501	587.82	584.34		
S-103	54+65.09, 11.20' LT	SW-211	585.09	584.59		
S-104	54+56.54, 11.21' LT	SW-401 (60")	587.83	584.34		
S-105	9054+27.98, 19.00' LT	SW-541	587.94	584.07		
S-106	54+23.47, 21.95' RT	SW-509	588.09	583.76		
S-107	5083+17.72, 21.20' LT	SW-509	588.99	583.3		
S-108	1994+91.00, 22.00' RT	SW-545R (12')	603.88	599.65	12	
S-109	1994+86.00, 62.00' LT	SW-512 (24" Type 3B Casting)	602.66	599.33		
S-110	1994+91.00, 34.00' LT	SW-545R (12')	603.59	598.47	12	
S-111	704+11.92, 15.50' LT	SW-509	602.4	598.4		
S-112	704+11.92, 15.50' RT	SW-507	602.02	597.99		
S-113	1994+18.00, 24.00' LT	SW-401 (48")	601.64	596.39		
S-113b	1984+15.61, 25.44' RT	DR-141	589.19	583.9		
S-114	403+02.87, 56.38' LT	SW-211	614.98	611.8		

PIPES

Design Length, Slope, and Flowlines are calculated from inside wall to inside wall along CL of pipe. An additional 2 ft length is added to each side of the Design Length to account for estimated length to center of structures.

Line Number	Intake/ Utility Access No. From	To	Class 'D'	(1) Pipe Size IN	Bid* Length FT	Design Length FT	Slope %	Connected Pipe Joint (DR-121) Type	Flow Lines Inlet Elevation	Outlet Elevation	Other Elevation	Pipe Profile Sheet No.	Notes
P-1	S-1	S-2	2000	15	38	34.0	1		589.64	589.3			
P-2	S-2	S-3	2000	15	56	52.0	10.04		589.2	584.56			
P-10	S-10	S-11	2000	15	23	19.0	1		589.24	589.05			
P-11	S-11	S-12	2000	18	63	59.0	1		588.8	588.2			
P-12	S-12	S-14	2000	24	150	146.0	0.75		588.1	587.01			
P-13	S-13	S-14	2000	18	48	44.0	1		588.79	588.35			
P-14	S-14	S-15	2000	24	39	37.0	1		586.77	586.4			
P-20	S-20	S-21	2000	15	54	50.0	1		587.09	586.59			
P-21A	S-21	S-21A	2000	15	9	7.0	0.2		586.51	586.5			
P-21	S-21B	S-22	2000	15	12	8.0	0.2		586.15	586.13			
P-22	S-22	S-25	2000	24	149	145.0	0.2		585.91	585.62			
P-23	S-23	S-24	2000	18	56	52.0	0.5		586.2	585.94			
P-24	S-24	S-25	2000	24	33	29.0	0.5		585.85	585.7			
P-25	S-25	S-26	2000	24	244	240.0	0.26		585.61	584.99			
P-26	S-26	S-29	2000	24	153	149.0	0.2		584.99	584.69			
P-27	S-27	S-28	2000	15	48	44.0	1		588.87	588.43			
P-28	S-28	S-29	2000	15	18	14.0	1		586.14	586			
P-29	S-29	S-30	2000	24	163	159.0	0.2		584.69	584.37			
P-30	S-30	S-31	2000	24	107	105.0	1		584.32	583.27			
P-50	S-50	S-51	2000	18	48	44.0	1		583.62	583.18			
P-51	S-51	S-62	2000	24	218	214.0	0.5		582.78	581.71			
P-52	S-52	S-62	2000	18	81	77.0	1.6		583.33	582.1			
P-53	S-53	S-55	2000	15	18	14.0	1		585.19	585.05			
P-54	S-54	S-55	2000	15	33	29.0	1		584.82	584.53			
P-55	S-55	S-57	2000	18	322	318.0	0.3		584.21	583.26			
P-56	S-56	S-57	2000	15	24	20.0	0.5		583.35	583.25			
P-57	S-57	S-58	2000	18	48	44.0	0.4		583.16	582.98			
P-58	S-58	S-61	2000	24	335	331.0	0.2		582.88	582.22			
P-59	S-59	S-60	2000	18	31	27.0	1		583.38	583.14			
P-60	S-60	S-61	2000	18	52	48.0	1		583	582.52			
P-61	S-61	S-62	2000	24	213	209.0	0.2		582.12	581.7			
P-62	S-62	S-63	2000	36	455	451.0	0.2		580.9	580			
P-63	S-63	S-64	2000	36	398	394.0	0.2		579.99	579.2			
P-64	S-64	S-65	2000	36	398	394.0	0.2		579.19	578.4			
P-65	S-65	S-66	2000	36	397	393.0	0.2		578.39	577.6			
P-66	S-66	S-67	2000	36	45	43.0	0.2		577.59	577.5			
P-70	S-70	S-71	2000	15	40	36.0	0.5		586.04	585.83			
P-71	S-71	S-72	2000	15	17	15.0	0.5		585.73	585.65			
P-80	S-80	S-81	2000	15	91	89.0	0.5		585.58	585.14			
P-90	S-90	S-91	PVC	12	38	34.0	0.2		583.18	583.11			
P-91	S-91	S-92	2000	15	93	89.0	0.2		582.87	582.69			
P-92	S-92	S-93	2000	24	247	245.0	0.2		582.69	582.2			
P-100	S-100	S-102	PVC	12	31	27.0	0.5		585.37	585.23			
P-101	S-101	S-102	2000	15	11	7.0	0.5		585.23	585.2			
P-102	S-102	S-104	2000	18	52	48.0	0.32		585.34	585.19			
P-103	S-103	S-104	2000	18	10	6.0	2		585.09	584.97			
P-104	S-104	S-105	2000	18	31	27.0	0.57		585.34	585.19			
P-105	S-105	S-106	2000	18	43	39.0	0.48		585.32	585.13			
P-106	S-106	S-107	2000	24	74	70.0	0.5		584.76	584.41			
P-107	S-107	S-131	2000	30	49	45.0	0.5		583.8	583.58			
P-108	S-108	S-110	2000	15	60	56.0	1		600.15	599.59			
P-109	S-109	S-110	2000	15	28	24.0	1		599.83	599.59			
P-110	S-110	S-113	2000	18	76	72.0	2.1		598.97	597.47			
P-111	S-111	S-112	2000	18	35	31.0	1		598.9	598.59			
P-112	S-112	S-113	2000	18	44	40.0	3		598.49	597.28			
P-113	S-113	S-119	2000	24	232	228.0	2.01		596.89	592.31			
P-114	S-114	S-115	2000	24	25	21.0	10.99		612.3	609.99			

STORM SEWER

(1) Diameter or equivalent diameter
* Bid Item
** For SW-545

INTAKES AND UTILITY ACCESSES

No.	Location Station and Offset	*Type or Standard Road Plan	Form Grade Elev.	Bottom Well Elev.	Extension Length** FT	Notes
S-114	403+02.87, 56.38' LT	SW-211	614.98	611.8		
S-115	702+01.75, 15.50' LT	SW-507	612.39	609.39		
S-116	702+01.75, 15.50' RT	SW-507	612.39	608.61		
S-117	402+20.00, 26.00' RT	SW-401 (48")	610	602.75		
S-118	1991+87.02, 39.00' LT	SW-502 (48" w/Type 3B Casting)	597.05	591.8		SW-604 Casting
S-119	1991+85.00, 26.00' LT	SW-401 (60")	596.61	591.61		
S-120	1991+20.00, 22.00' RT	SW-541L Ext.	595.17	591.04		
S-121	1991+20.00, 22.00' LT	SW-510	595.08	590.02		
S-122	111+08.00, 13.50' LT	SW-501	591.72	588.23		
S-123	111+08.00, 13.50' RT	SW-501	591.72	587.9		
S-124	1988+41.00, 28.00' LT	SW-402 (4' x 6')	593.18	586.97		
S-125	1987+60.00, 22.00' LT	SW-508	592.08	585.9		
S-126	1987+27.00, 22.00' RT	SW-508	592.24	585.56		
S-127	1985+37.00, 45.00' LT	SW-512 (24" Type 5 Casting)	589.64	586.49		
S-128	1985+37.00, 22.00' LT	SW-507	590.21	586.2		
S-129	1985+33.52, 83.79' RT	SW-512 (24" Type 5 Casting)	587	584.98		
S-130	1985+37.00, 22.00' RT	SW-508	590.21	584.51		
S-131	4083+10.97, 18.50' RT	SW-510	589	582.96		
S-132	1983+06.71, 84.35' RT	SW-502 (72")	588.29	582.4		
S-133	1982+93.78, 143.21' RT	SW-401 (84")	587	581.99		
S-134	1983+68.26, 180.31' RT	DR-201 (42")	582	N/A		
S-150	1998+35.00, 22.00' RT	SW-541	615.02	610.51		
S-151	1998+33.67, 28.45' RT	SW-211		N/A		
S-200	607+35.07, 24.31' LT	SW-211		600.45		
S-201	607+35.22, 13.50' LT	SW-502 (60" w/Type 5 Casting)	604	599.5		SW-604 Casting
S-201A	605+75.00, 11.00' LT	SW-401 (48")	596.67	591.86		
S-202	604+50.00, 15.50' RT	SW-541	594.41	589.97		
S-203	604+50.00, 15.50' LT	SW-541	594.41	588.93		
S-204	708+98.00, 15.50' LT	SW-507	593.46	590.5		
S-205	708+98.00, 15.50' RT	SW-541	593.46	590.09		
S-206	603+83.00, 9.00' LT	SW-401 (48")	592.78	588.1		
S-207	601+25.00, 15.50' LT	SW-541	588.71	584.69		
S-208	600+70.00. 55.00' LT	SW-512 (24" w/Type 3B Casting)	587.57	585.09		
S-209	600+00.00, 12.46' LT	SW-401 (60")	587.93	583.91		
S-210	600+36.79, 11.82' LT	SW-510	587.42	583.42		
S-211		DR-201 (30")	583.5	N/A		
S-300	100+35.00, 10.00' RT	SW-501	595.89	591.44		
S-301	100+35.00, 10.00' LT	SW-501	595.61	591.21		
S-302	107+50.00, 10.00' LT	SW-501	593.66	590.76		
S-303	107+50.00, 10.00' RT	SW-503	593.66	590.48		
S-304	107+65.28, 16.07' RT	DR-201 (15")	589	N/A		
CMP-1	1952+15.15, 59.80' RT	CAST FLUSH WITH WALL	592.88	592.38		
CMP-2	1953+02.43, 91.40' RT	DR-203 (12")	589.93	N/A		

Total:	
CAST FLUSH WITH WALL	1
DR-141	1
DR-201 (15")	4
DR-201 (24")	4
DR-201 (42")	1
DR-201 (48")	1
DR-203 (12")	1
SW-211	7
SW-401 (48")	7
SW-401 (60")	4
SW-401 (72")	3
SW-401 (84")	2
SW-402 (4' x 6')	2
SW-501	9
SW-502 (48")	4
SW-502 (60")	1
SW-502 (72")	1
SW-503	1
SW-505	1
SW-506	1

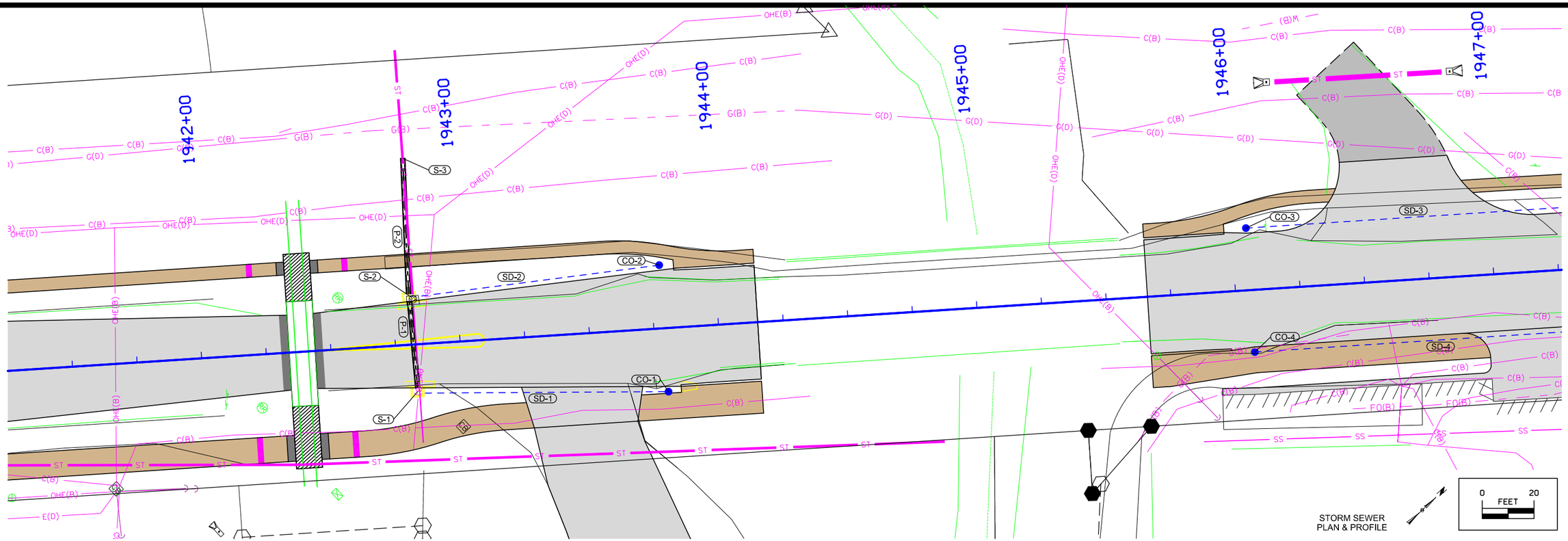
Total:	
SW-507	13
SW-508	3
SW-509	10
SW-510	4
SW-512 (24")	9
SW-512 (30")	2
SW-541	8
SW-541L Ext.	1
SW-545R (12')	2

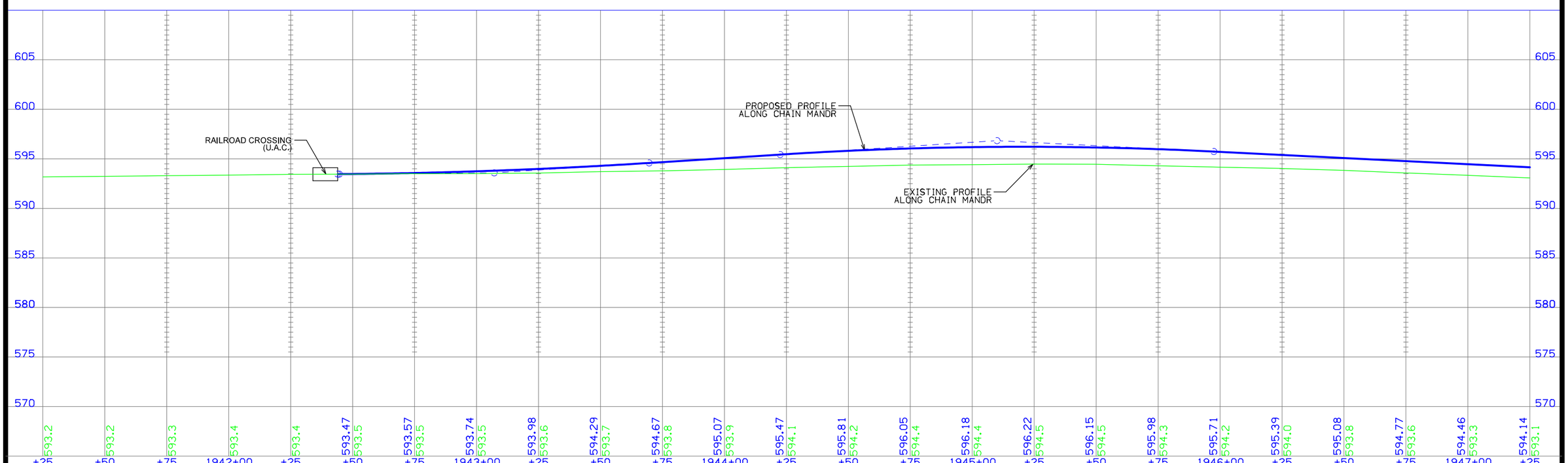
PIPES

Design Length, Slope, and Flowlines are calculated from inside wall to inside wall along CL of pipe. An additional 3 ft length is added to each side of the Design Length to account for estimated length to center of structures.

Line Number	Intake/ Utility Access No. From	To	Class 'D'	(1) Pipe Size IN	Bid* Length FT	Design Length FT	Slope %	Connected Pipe Joint (DR-121) Type	Flow Lines Inlet Elevation	Outlet Elevation	Other Elevation	Pipe Profile Sheet No.	Notes
P-115	S-115	S-116	2000	24	35	31.0	2		609.89	609.27			
P-116	S-116	S-117	2000	24	78	74.0	3.5		609.11	606.51			
P-117	S-117	S-118	2000	24	248	244.0	3.38		603.25	595.01			
P-118	S-118	S-119	2000	24	13	9.0	1		592.3	592.21			
P-119	S-119	S-121	2000	36	62	58.0	1.79		591.11	590.08			
P-120	S-120	S-121	2000	15	44	40.0	1		591.54	591.13			
P-121	S-121	S-124	2000	36	273	269.0	1.02		590.02	587.27			
P-122	S-122	S-123	2000	15	27	23.0	1		588.73	588.5			
P-123	S-123	S-124	2000	15	170	166.0	0.5		588.4	587.57			
P-124	S-124	S-125	2000	36	81	77.0	1		587.47	586.7			
P-125	S-125	S-126	2000	36	59	55.0	0.53		586.4	586.1			
P-126	S-126	S-130	2000	36	190	186.0	0.5		586.06	585.13			
P-127	S-127	S-128	2000	15	23	19.0	1		586.99	586.8			
P-128	S-128	S-130	2000	15	48	44.0	1		586.7	586.26			
P-129	S-129	S-130	2000	15	61	57.0	0.5		585.48	585.2			
P-130	S-130	S-113b	2000	36	123	119.0	0.5		585.01	584.41			
P-130b	S-113b	S-131	2000	36	98	94.0	0.5		584.4	583.93			
P-131	S-131	S-132	2000	36	47	43.0	0.99		583.46	583.03			
P-132	S-132	S-133	2000	42	58	54.0	0.57		582.9	582.59			
P-133	S-133	S-134	2000	42	76	72.0	0.68		582.49	582			
P-150	S-150	S-151	2000	18	10	6.0	1		611.02	610.95			
P-200	S-200	S-201	2000	18	13	9.0	3.5		600.95	600.62			
P-201	S-201	S-201A	2000	24	286	282.0	3.68		600	589.63			
P-201A	S-201A	S-203	2000	27	125	121.0	1.8		592.36	590.18			
P-202	S-202	S-203	2000	15	28	24.0	1		590.47	590.23			
P-203	S-203	S-206	2000	27	67	63.0	1		589.43	588.8			
P-204	S-204	S-205	2000	15	31	27.0	1		591	590.72			
P-205	S-205	S-206	2000	15	49	45.0	1		590.59	590.14			
P-206	S-206	S-207	2000	30	258	254.0	1.3		588.6	585.29			
P-207	S-207	S-208	2000	30	57	53.0	1.35		585.19	584.04			
P-208	S-208	S-209	2000	15	42	38.0	0.5		585.6	585.41			
P-209	S-209	S-210	2000	30	32	28.0	1.35		584.41	584.03			
P-210	S-210	S-211	2000	30	87	85.0	0.5		583.92	583.5			
P-300	S-300	S-301	2000	15	20	16.0	1		592.19	592.03			
P-301	S-301	S-302	2000	15	37	33.0	1		591.96	591.63			
P-302	S-302	S-303	2000	15	20	16.0	1		591.51	591.33			
P-303	S-303	S-304	2000	15	16	14.0	0.65		591.23	591.13			
CMP-1	CMP-1	CMP-2	CMP	12	85	85.0	3.05		592.88	589.93			

Total:		
2000	15	1289
2000	18	1059
2000	24	3046
2000	27	192
2000	30	483
2000	36	2626
2000	42	134
CMP	12	85
PVC	12	69





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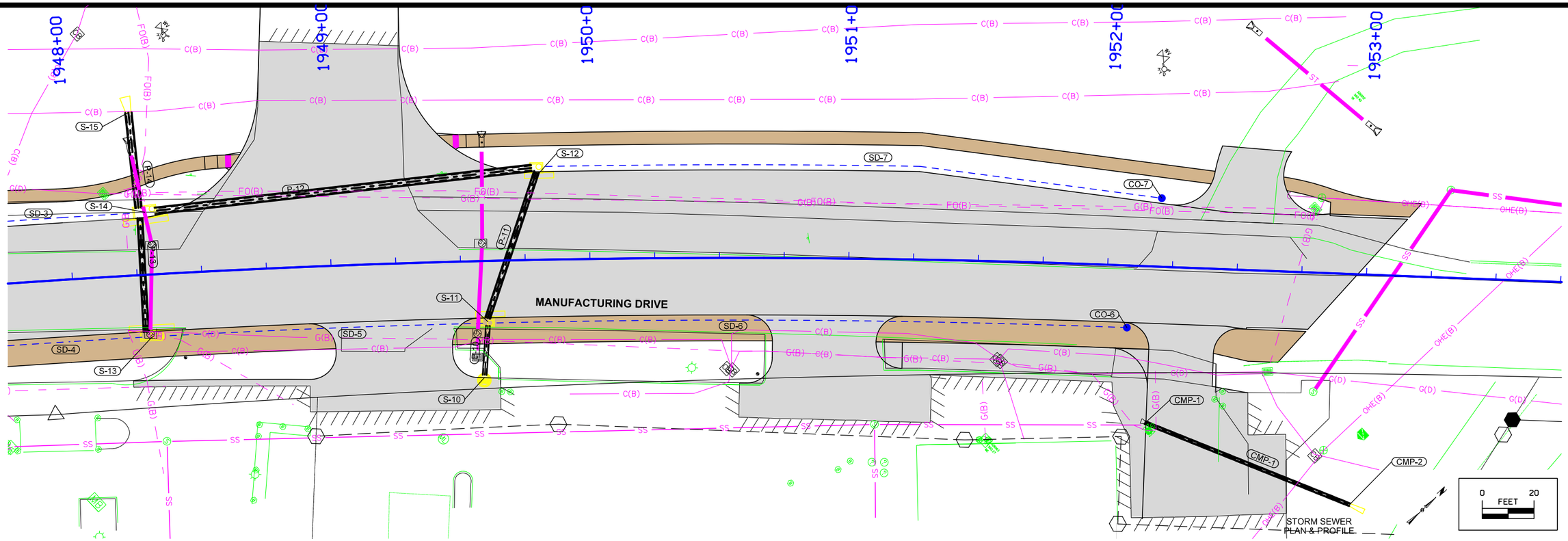

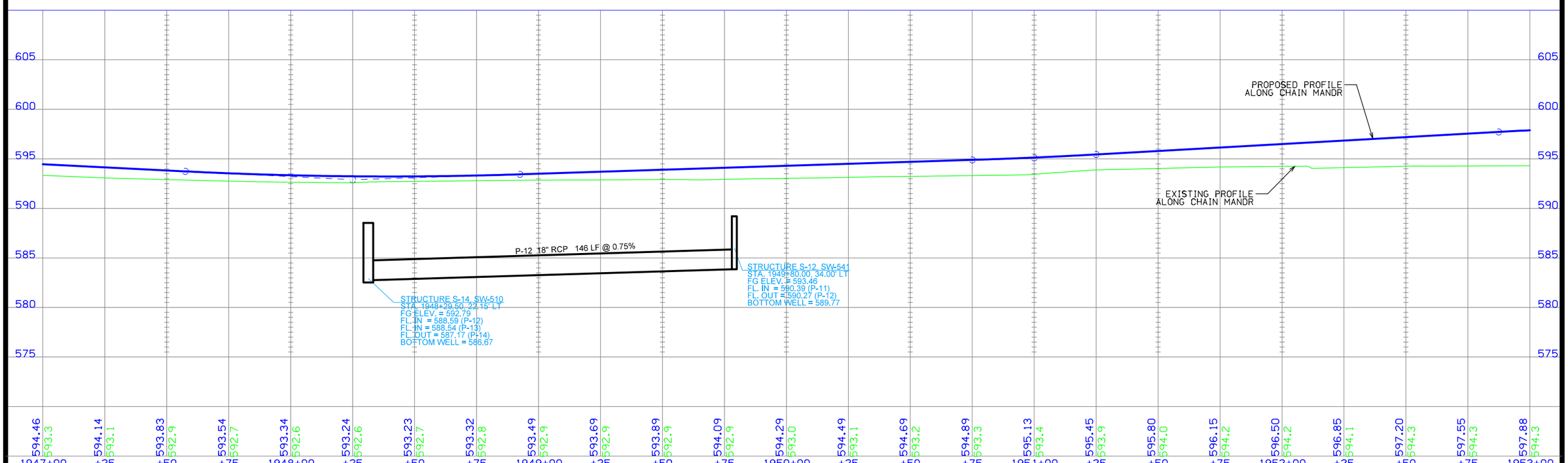

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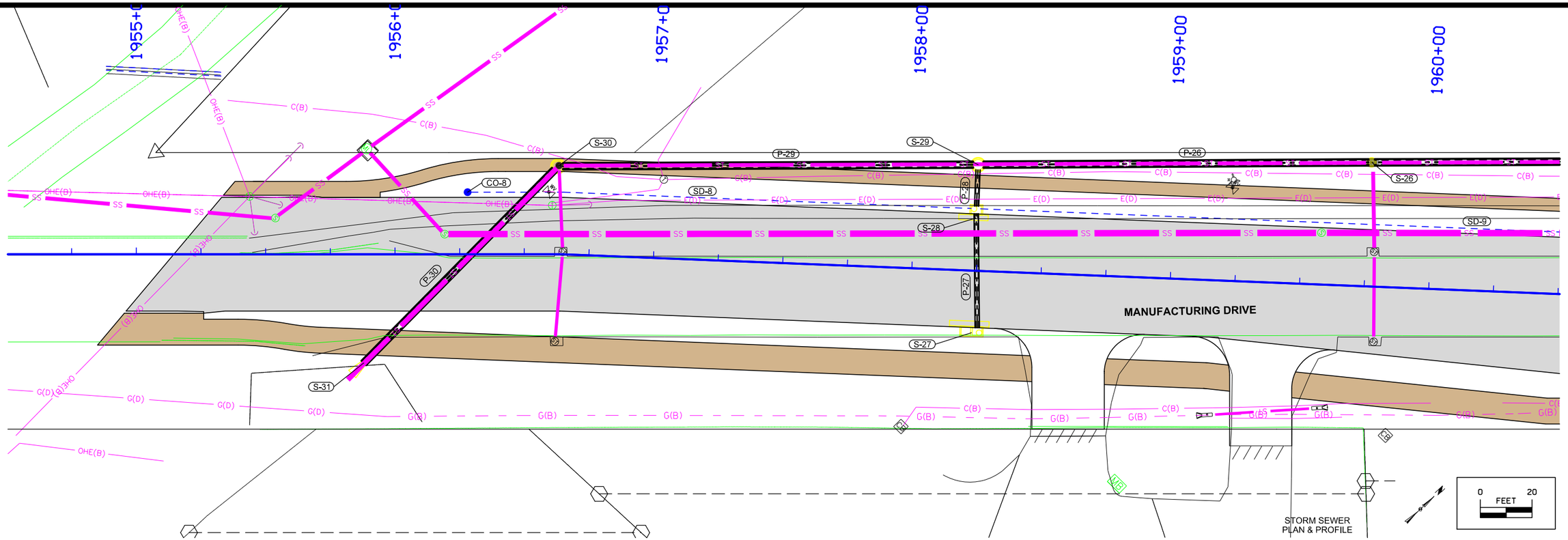

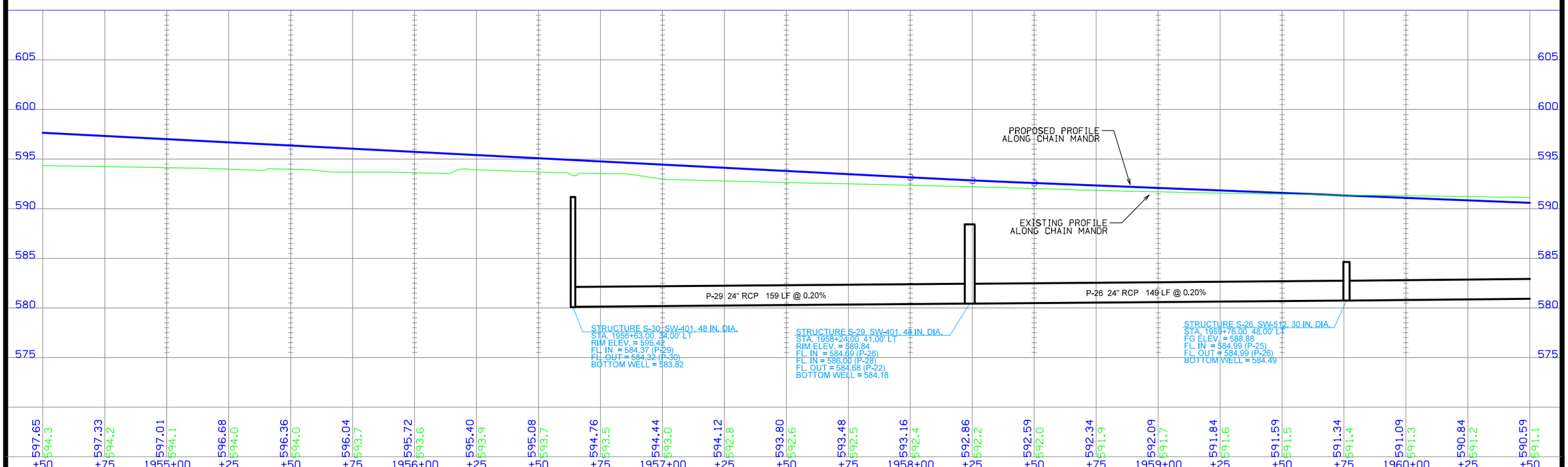

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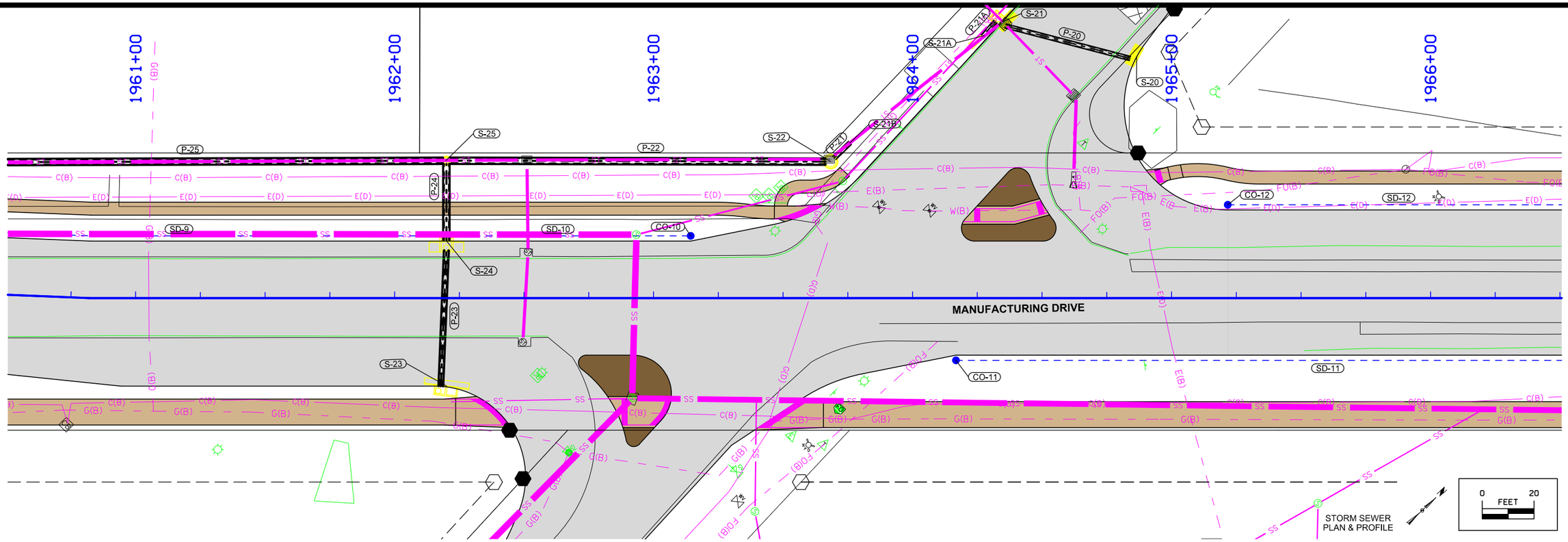

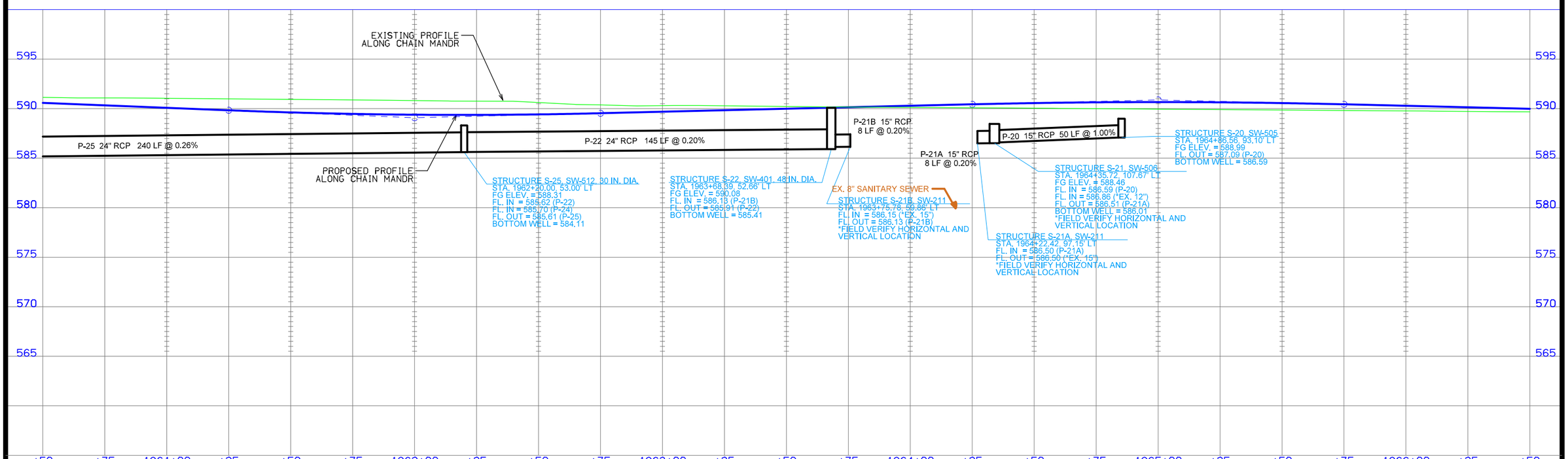

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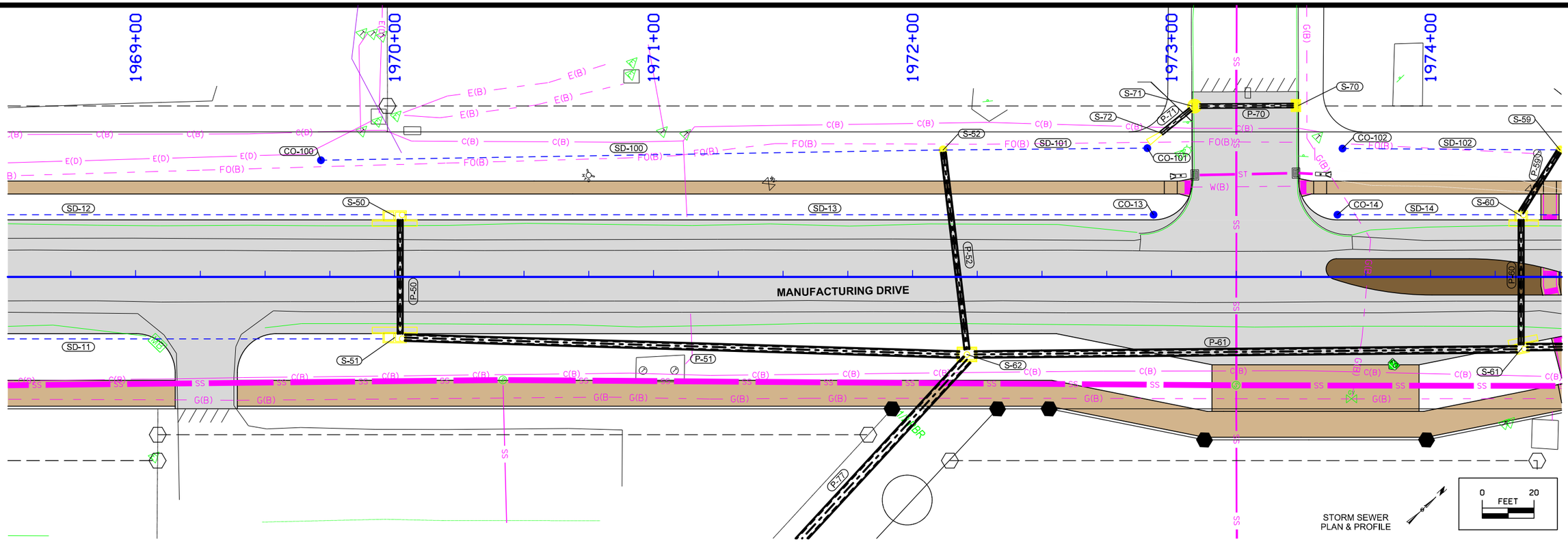

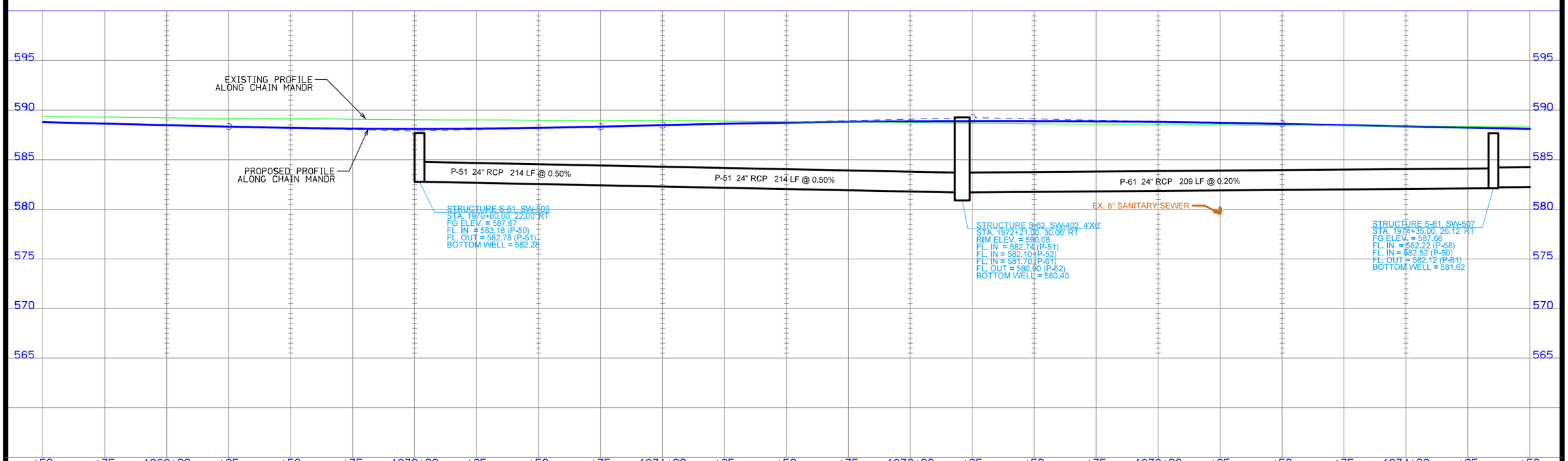

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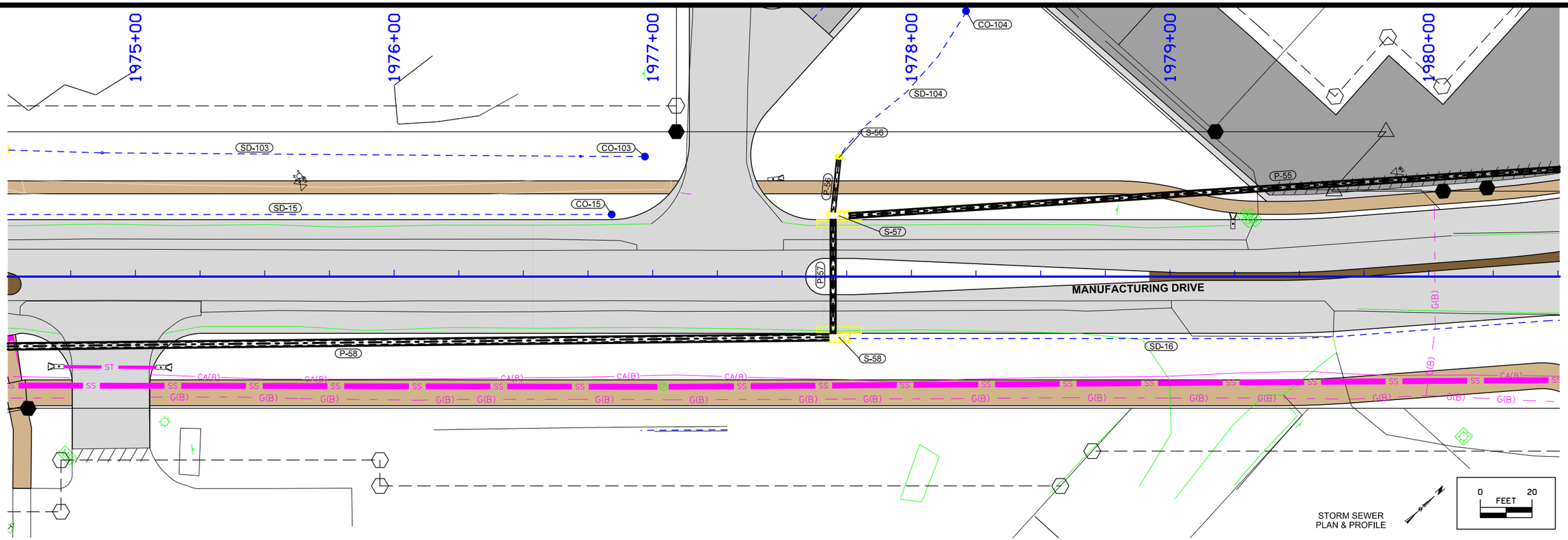

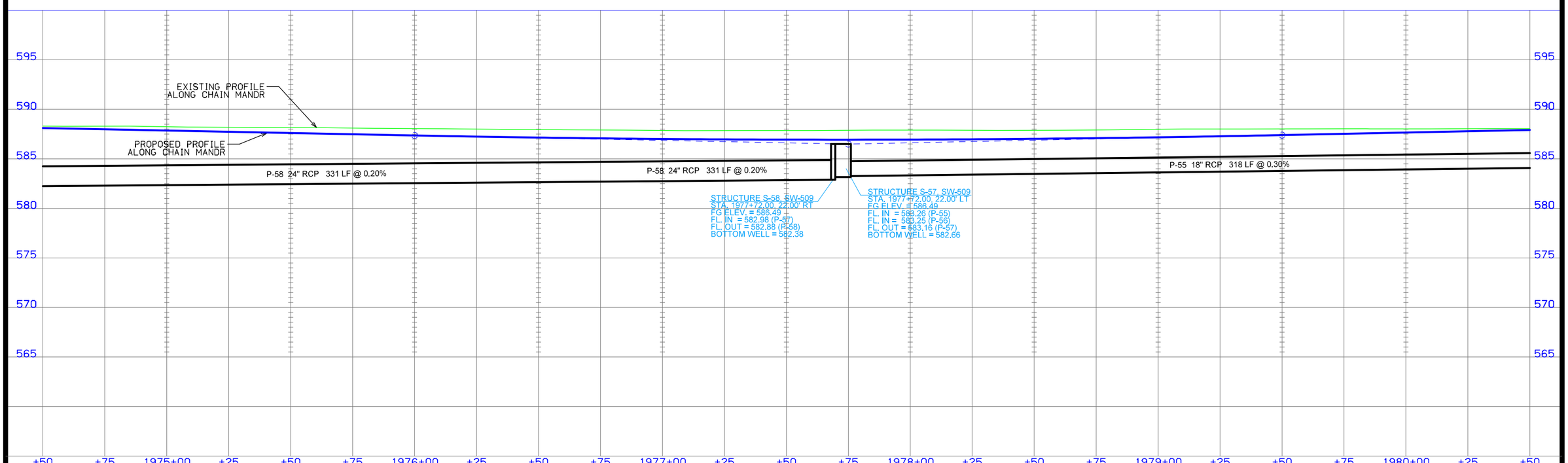

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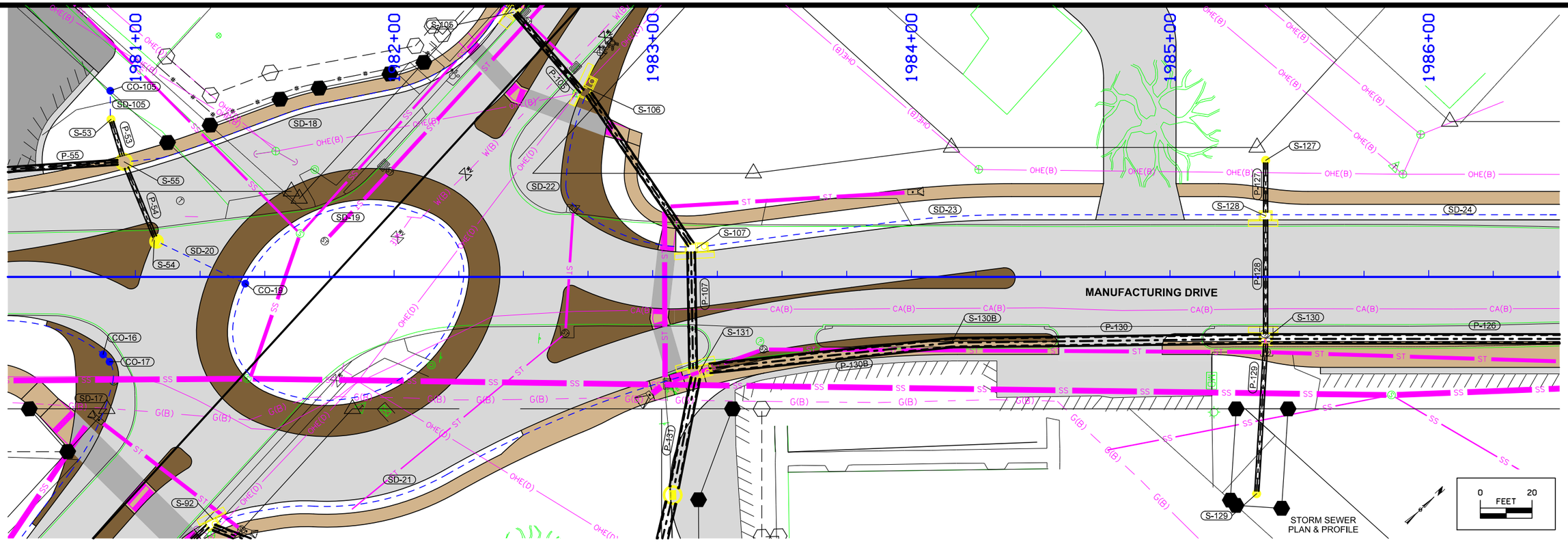

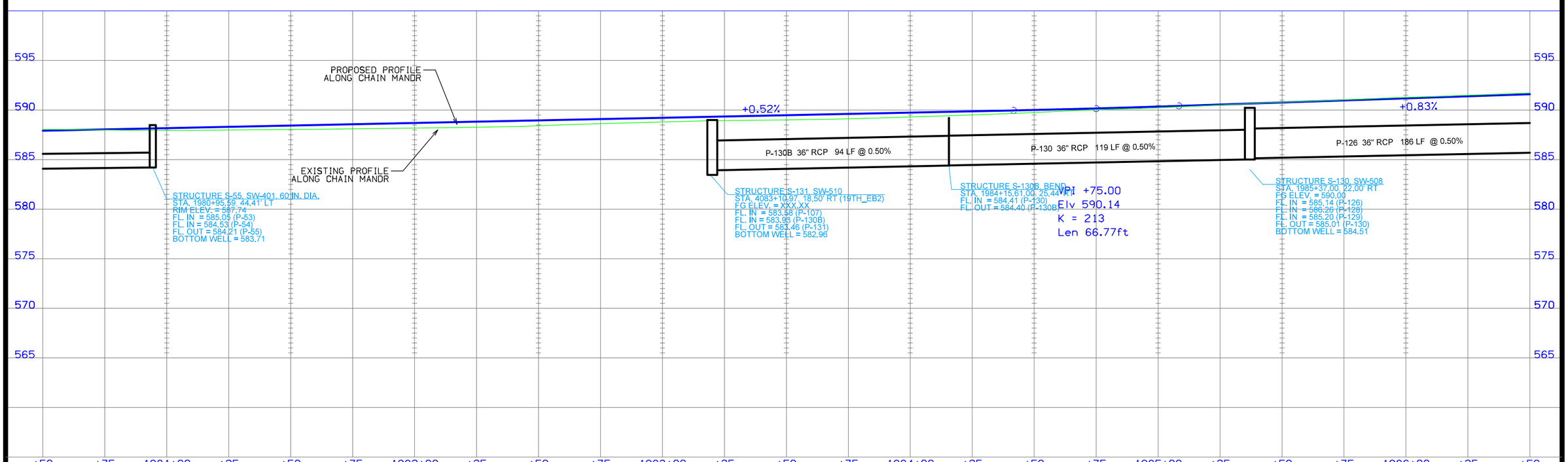

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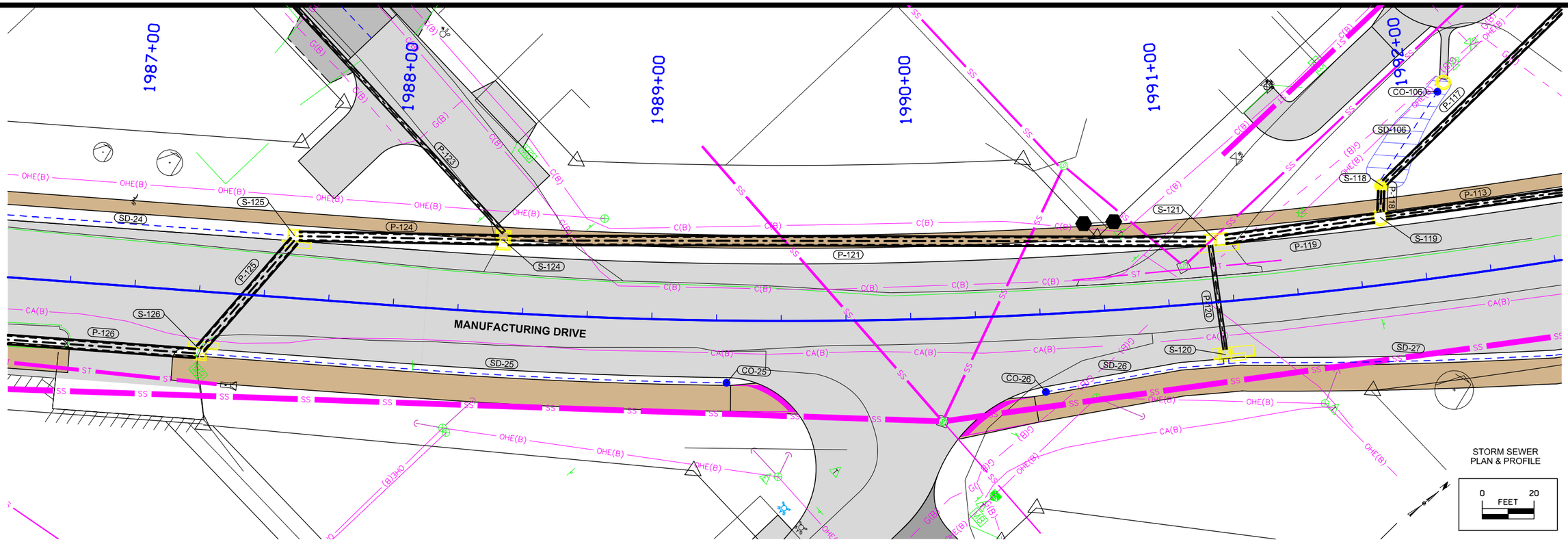

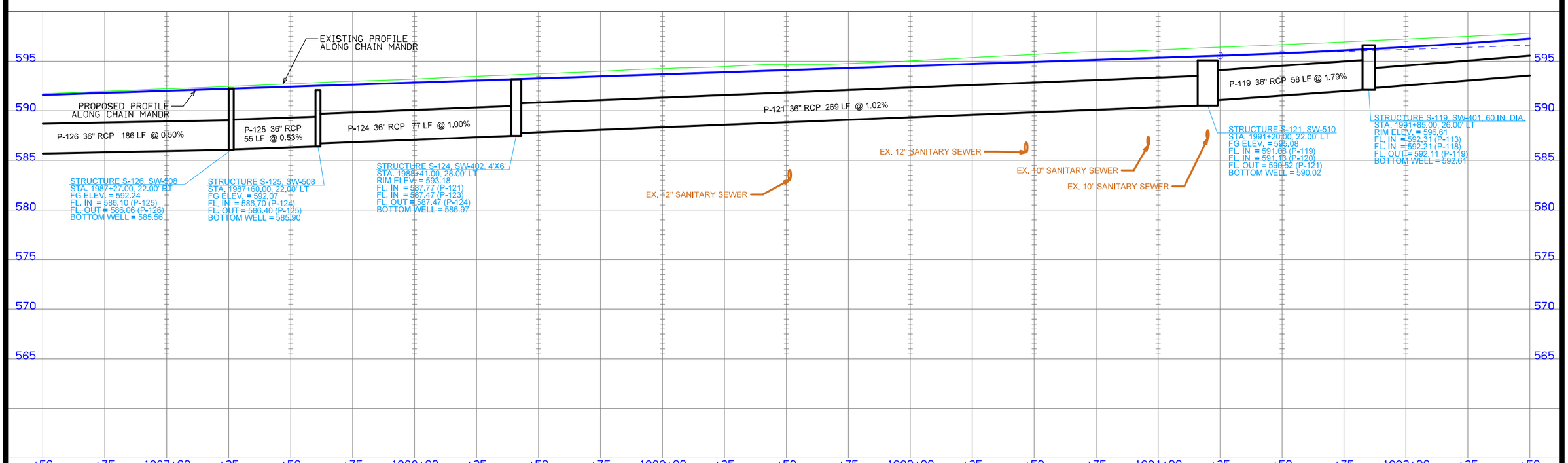

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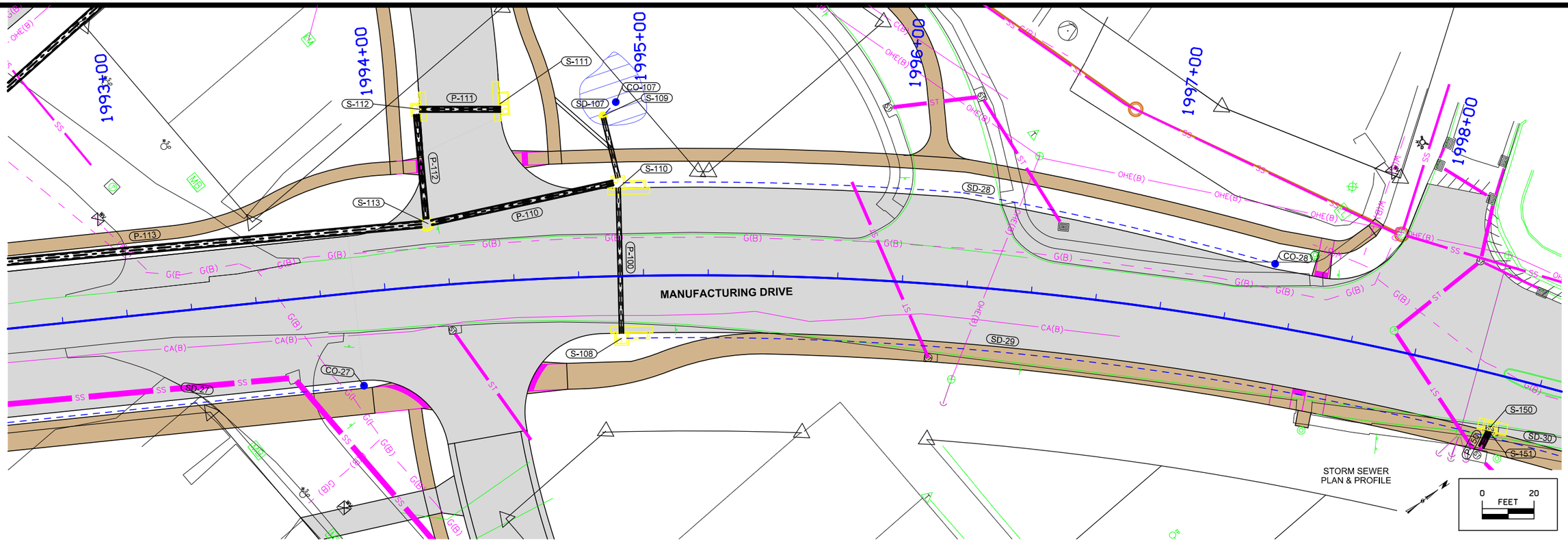

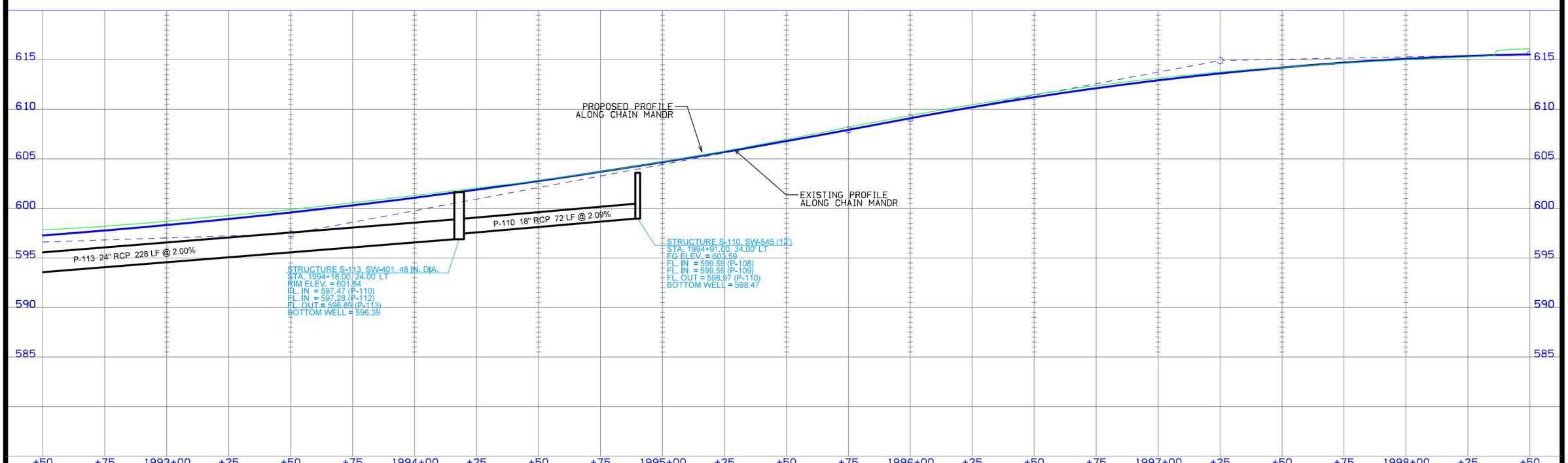

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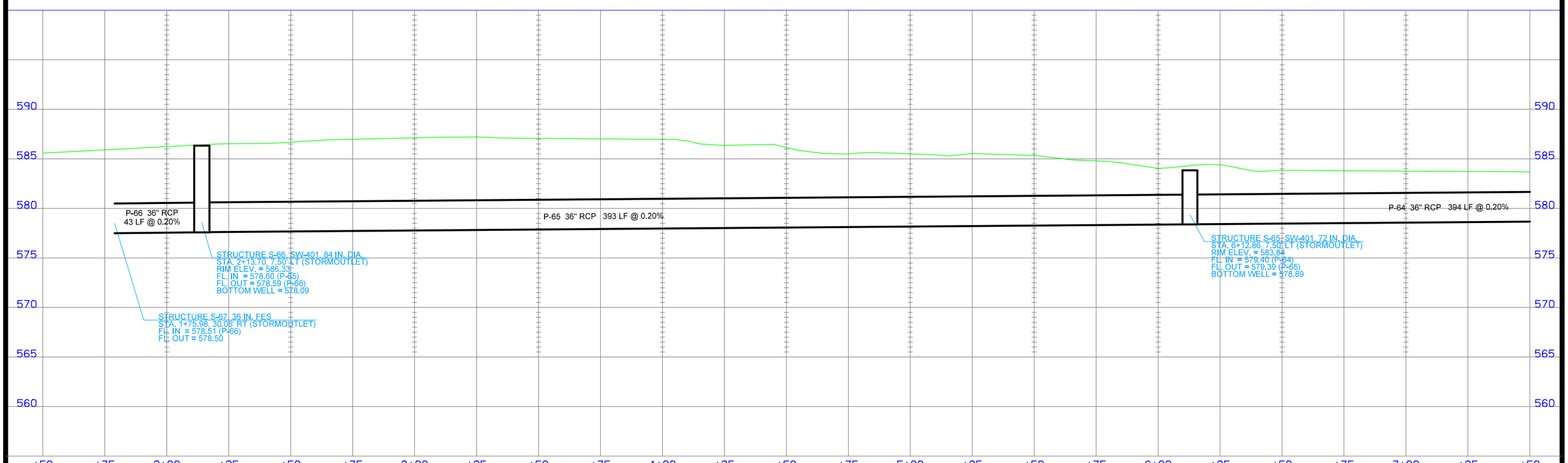

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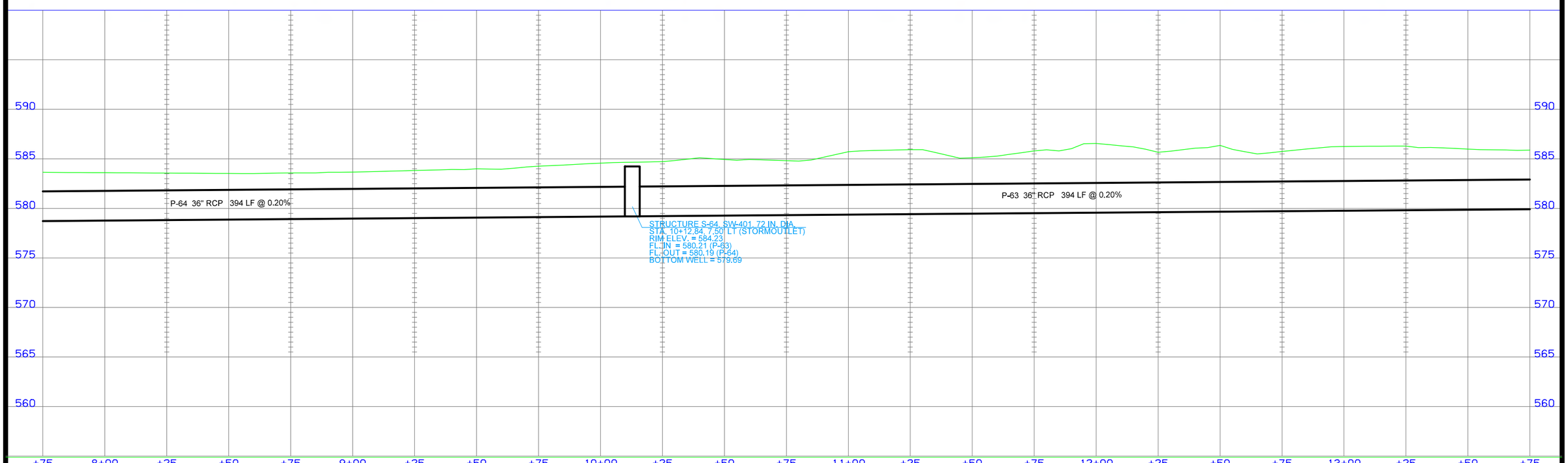

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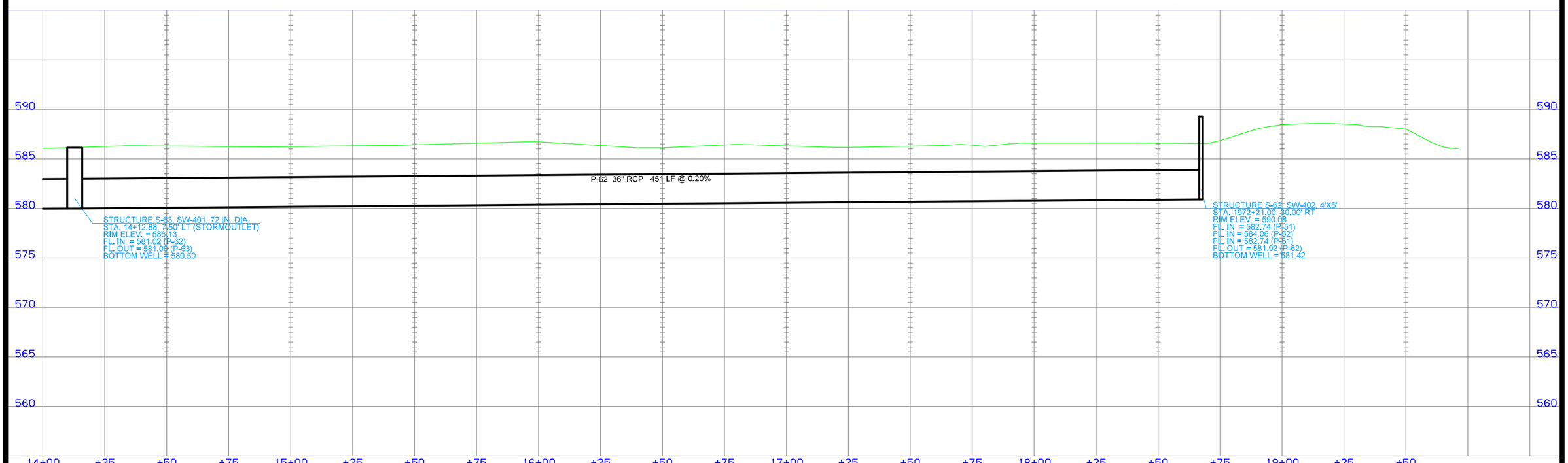

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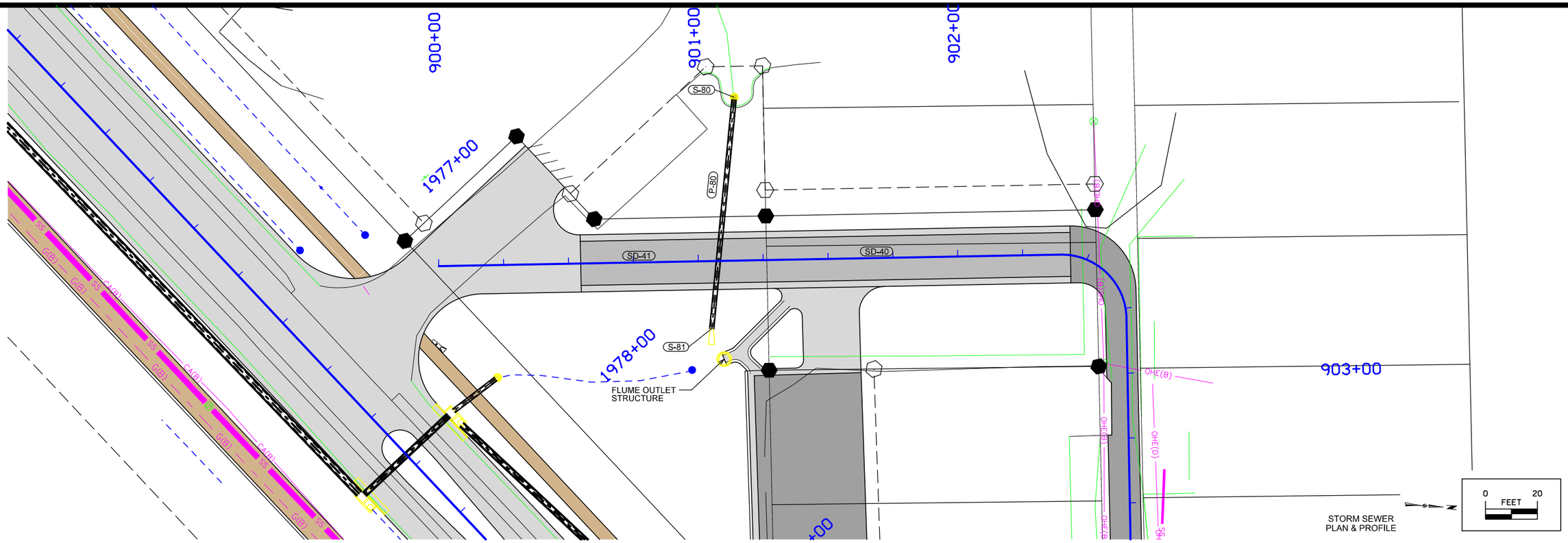

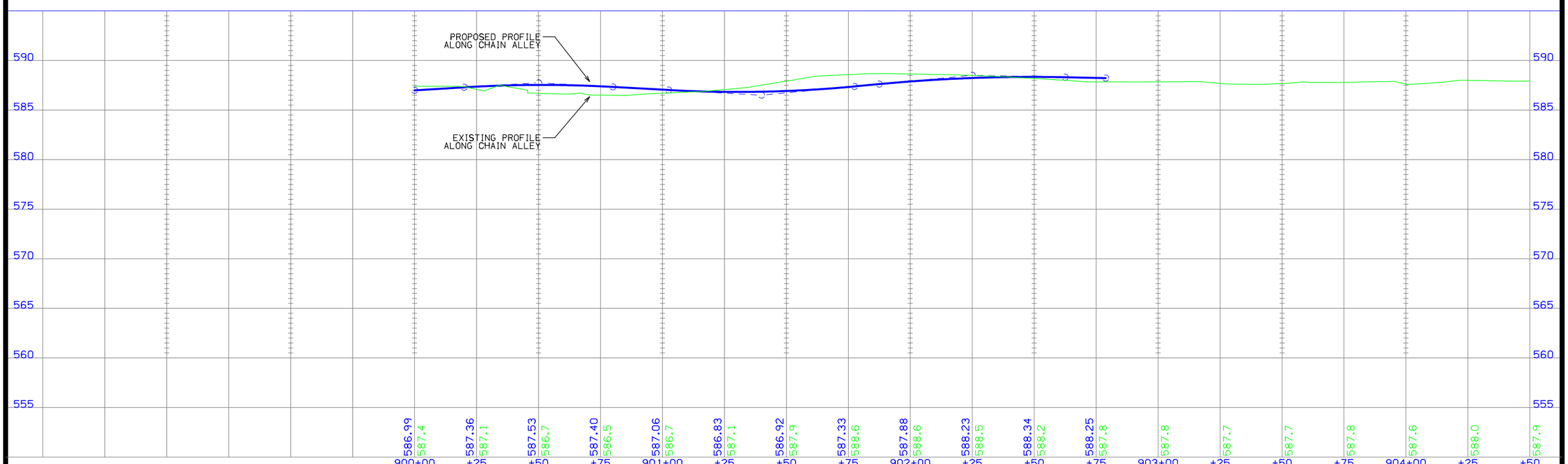

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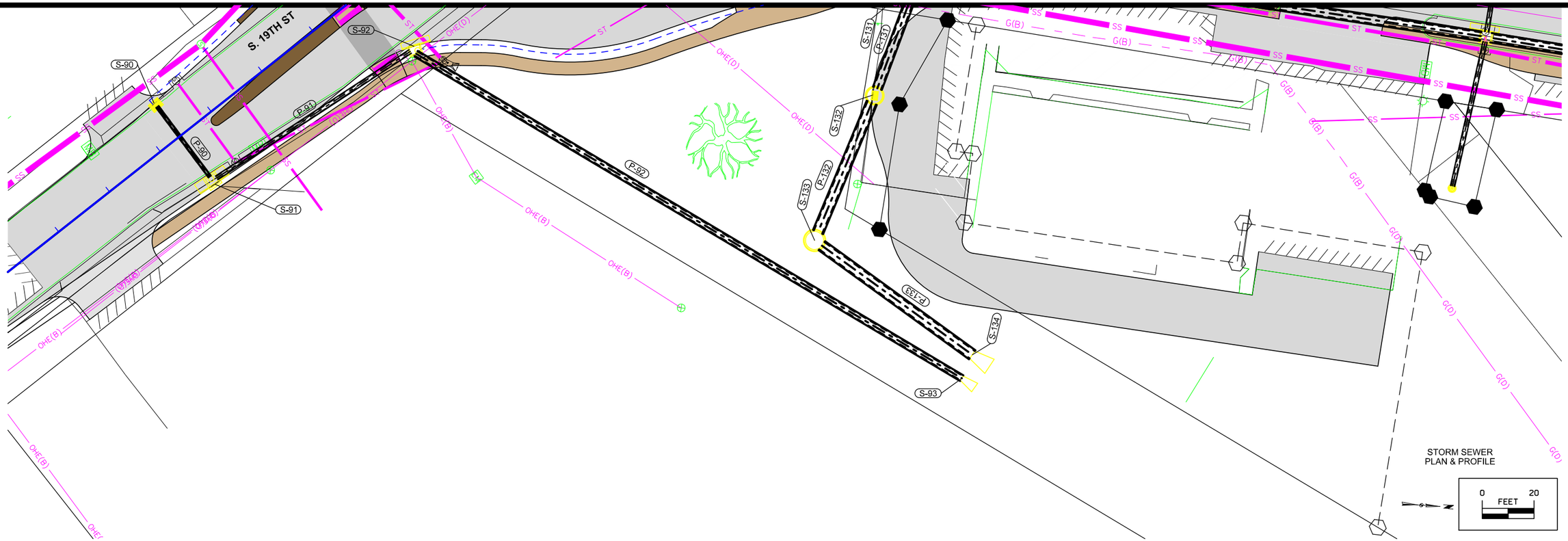

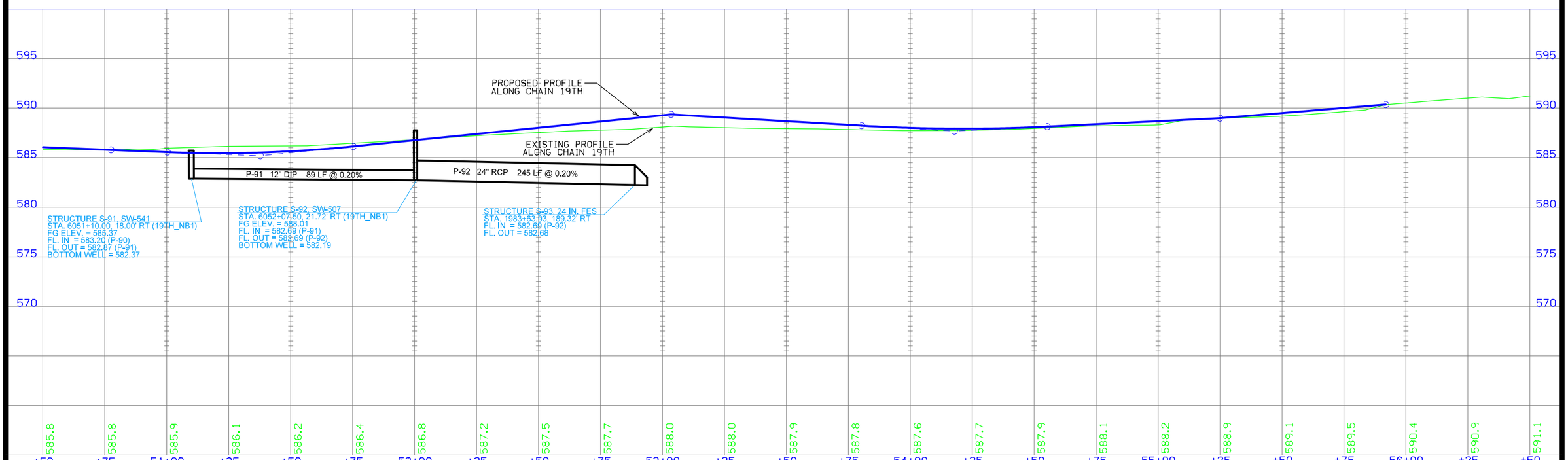

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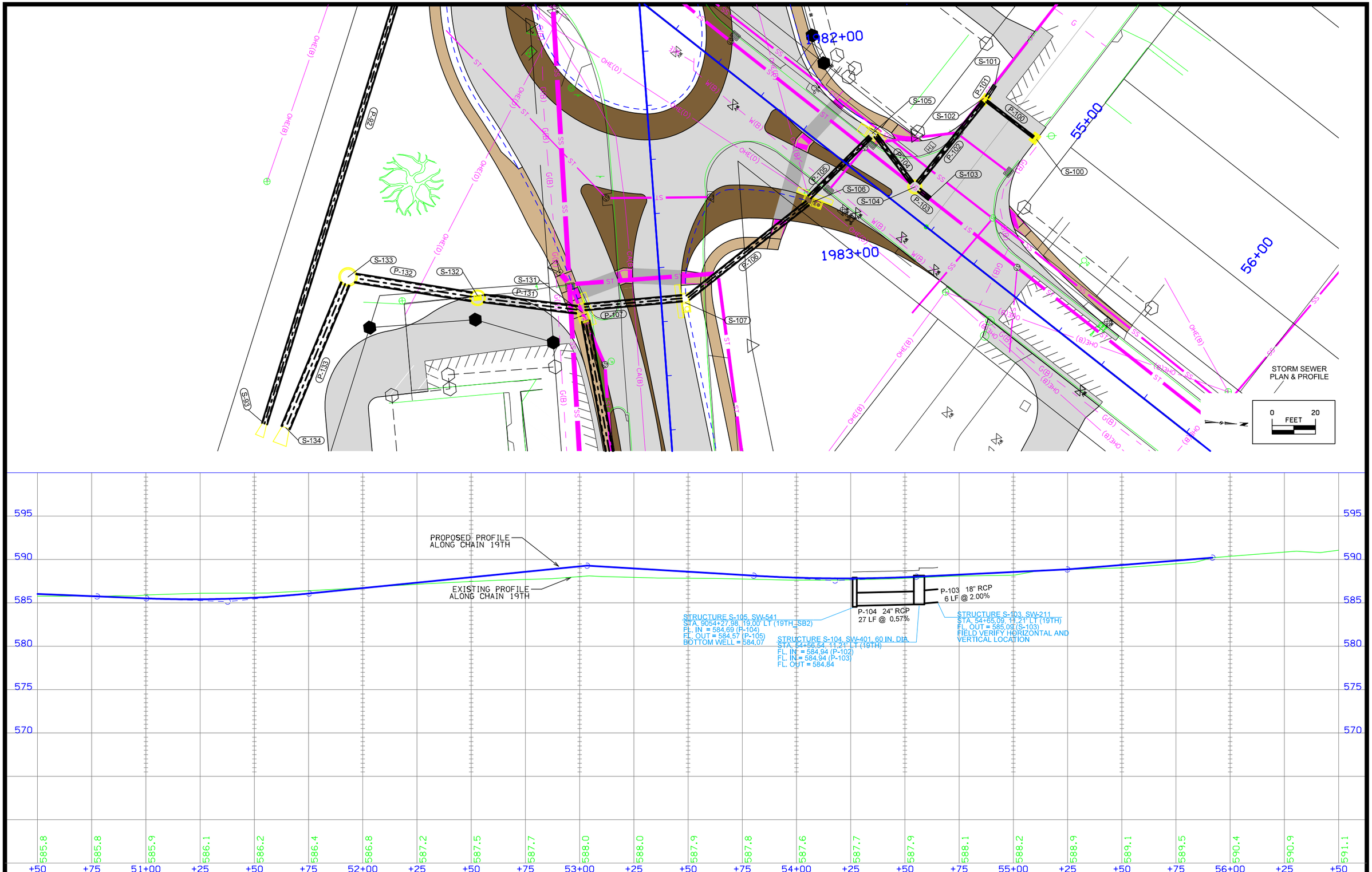

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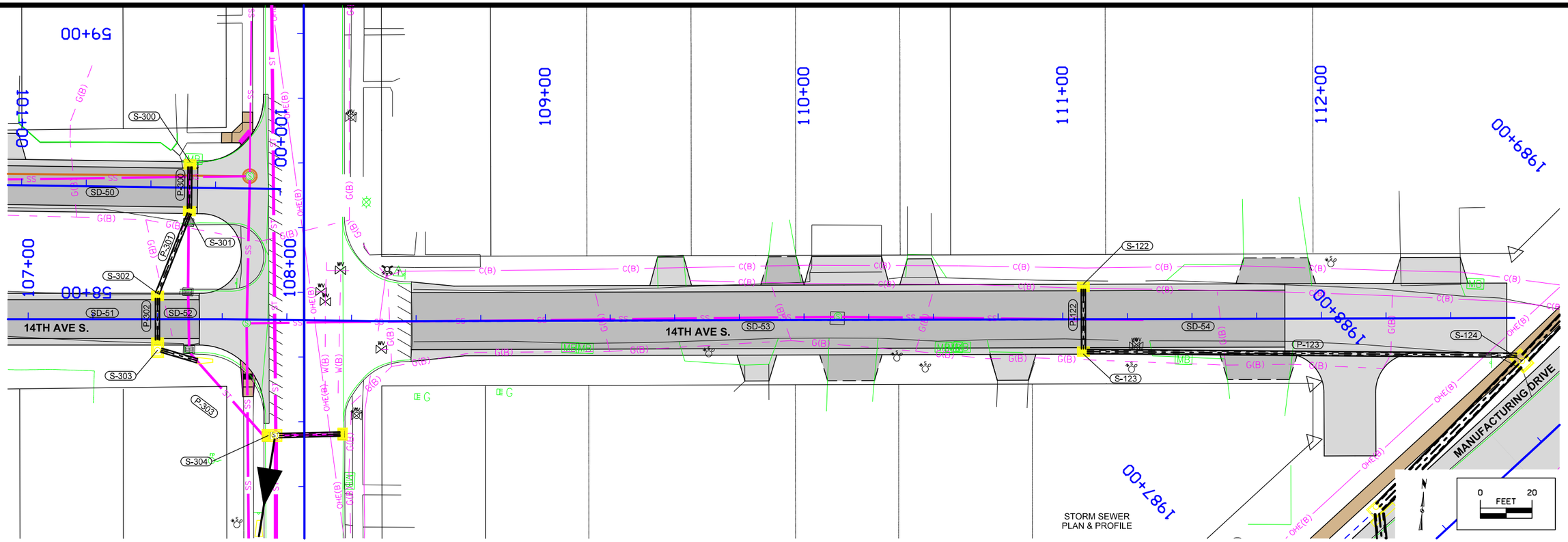
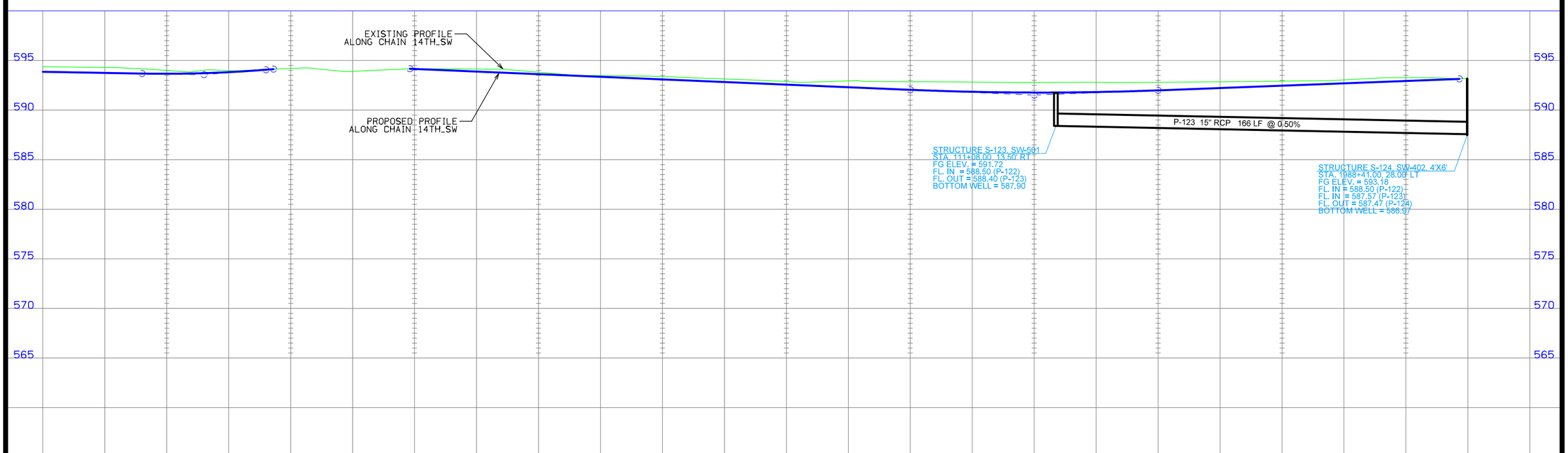
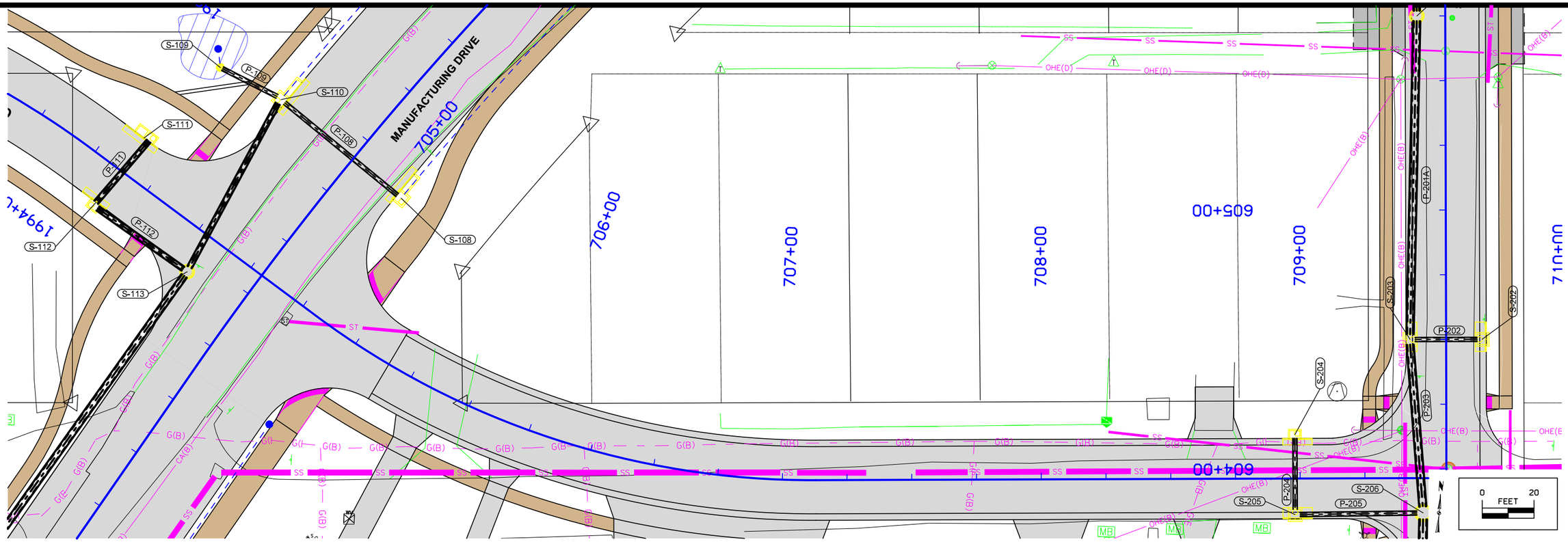


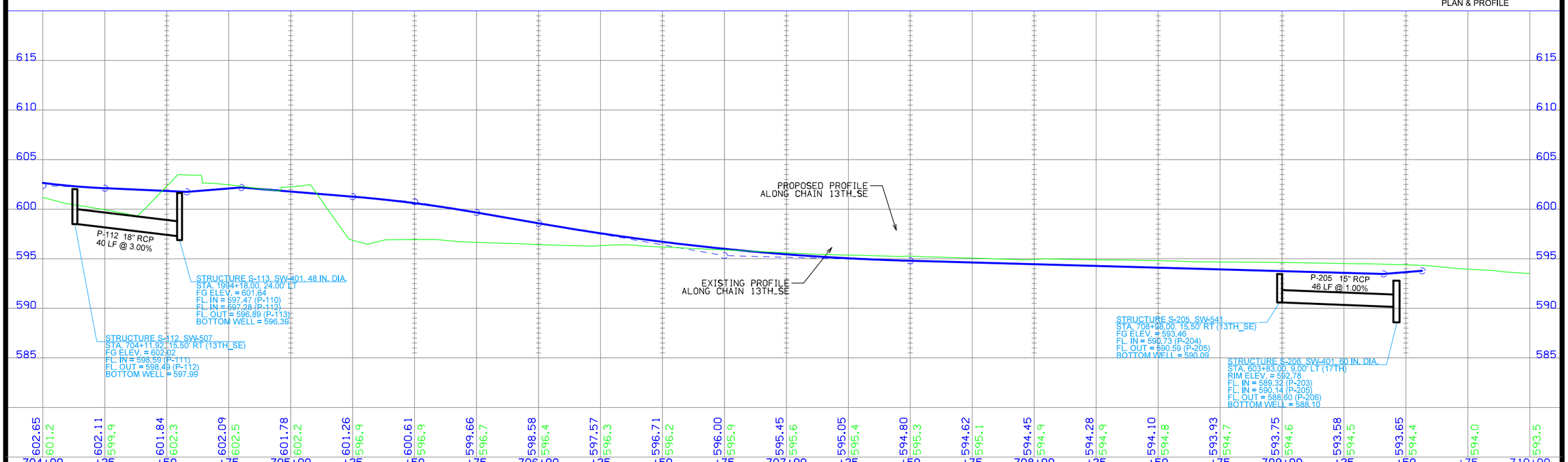


FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER M.18	REVISED

2:15:05 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_M18.dgn

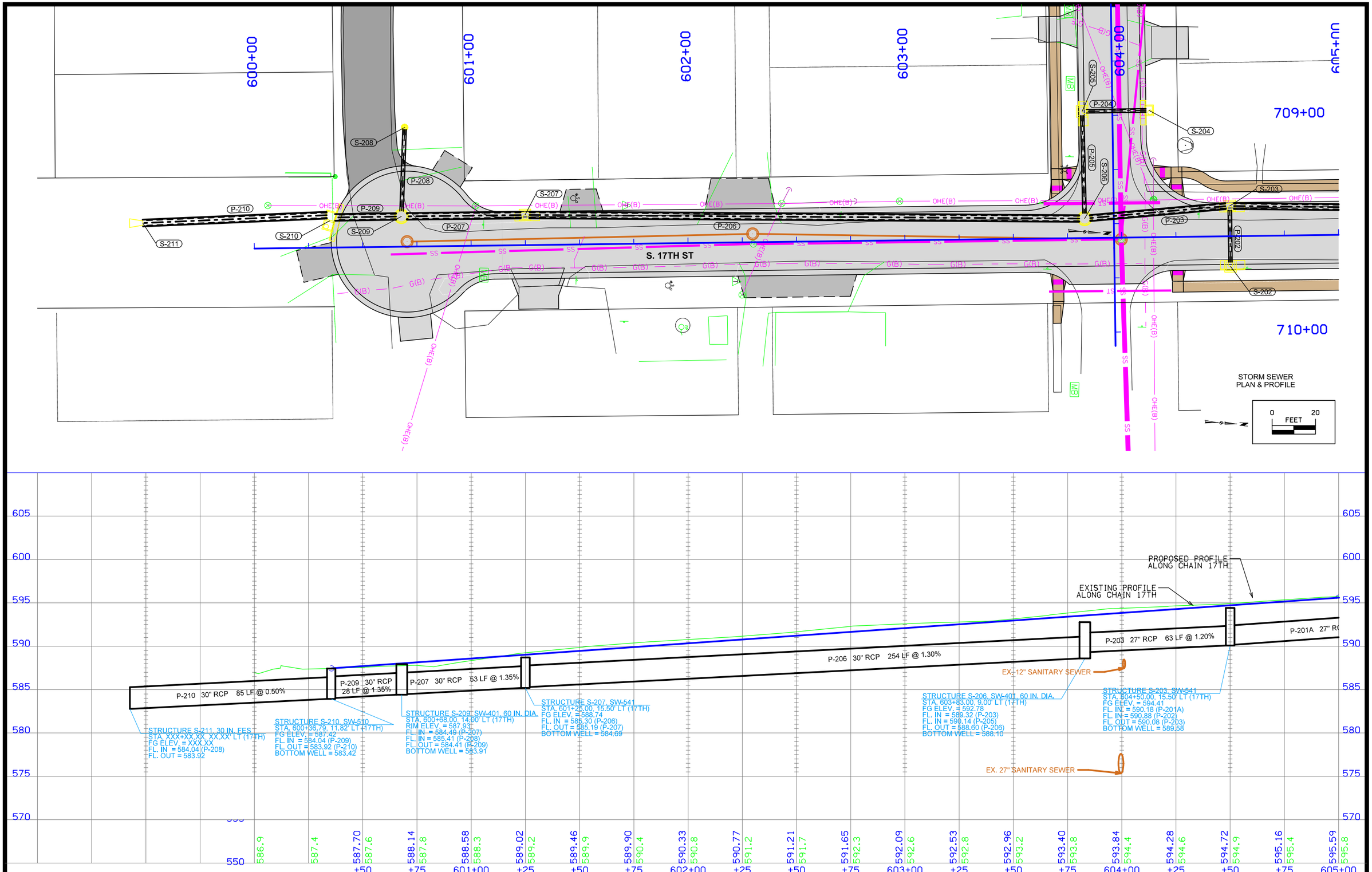


STORM SEWER
PLAN & PROFILE



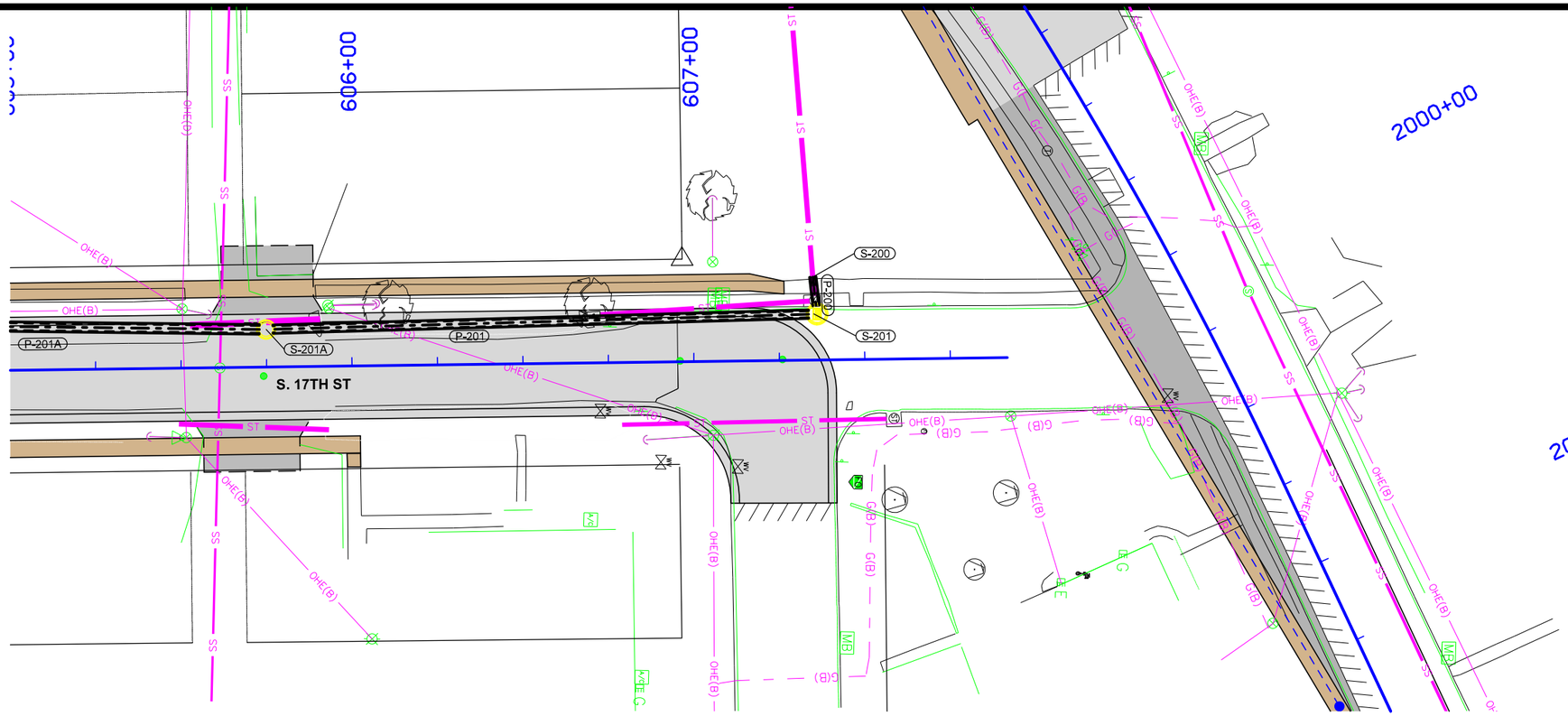
FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER M.19	REVISED

2:15:06 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_M19.dgn



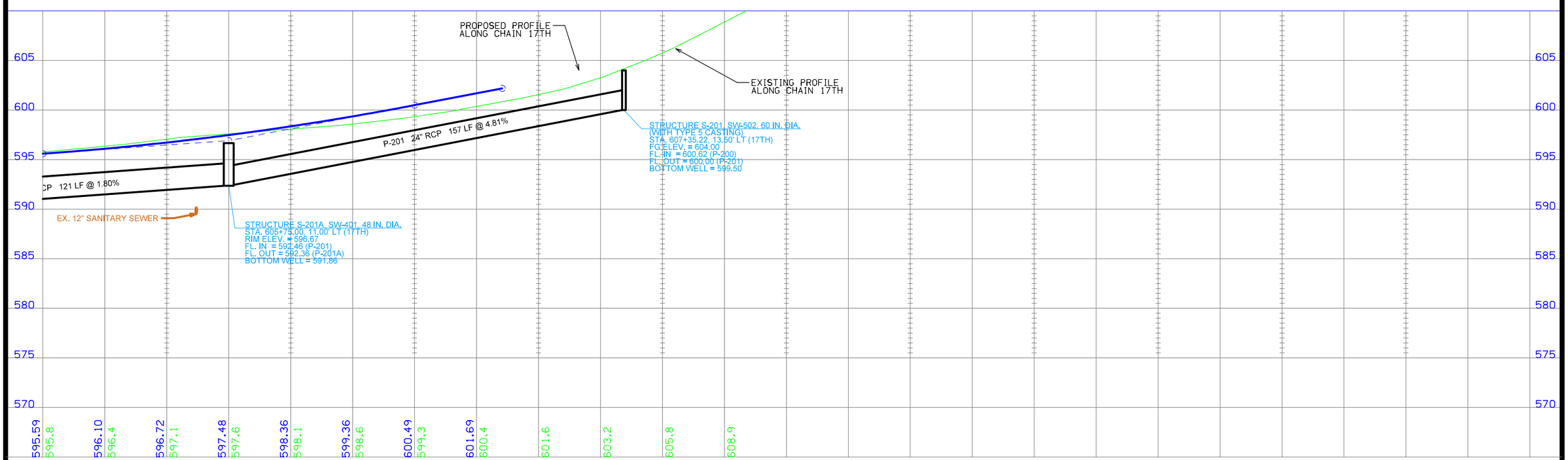
FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER **M.20**	REVISED

2:15:08 PM 7/2/2021 sschellch P:\30618011-001\06-Drawings\Civil\Dgns\30618011_M20.dgn



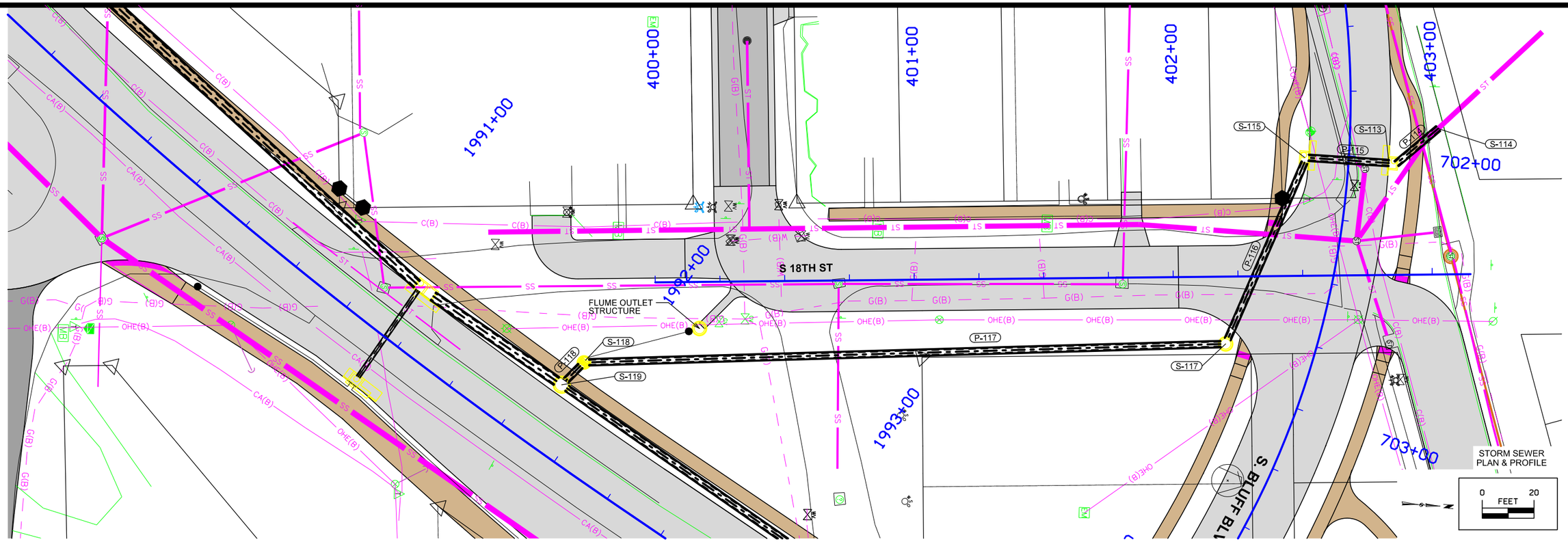
STORM SEWER
PLAN & PROFILE

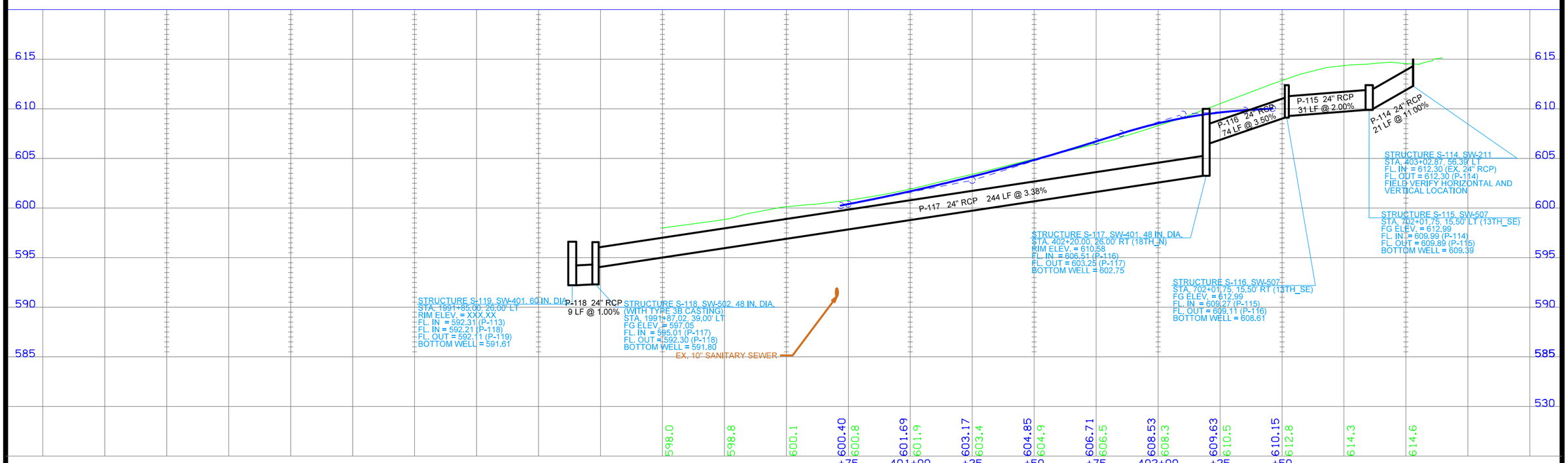
0 FEET 20



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER M.21	REVISED

2:15:10 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_M21.dgn

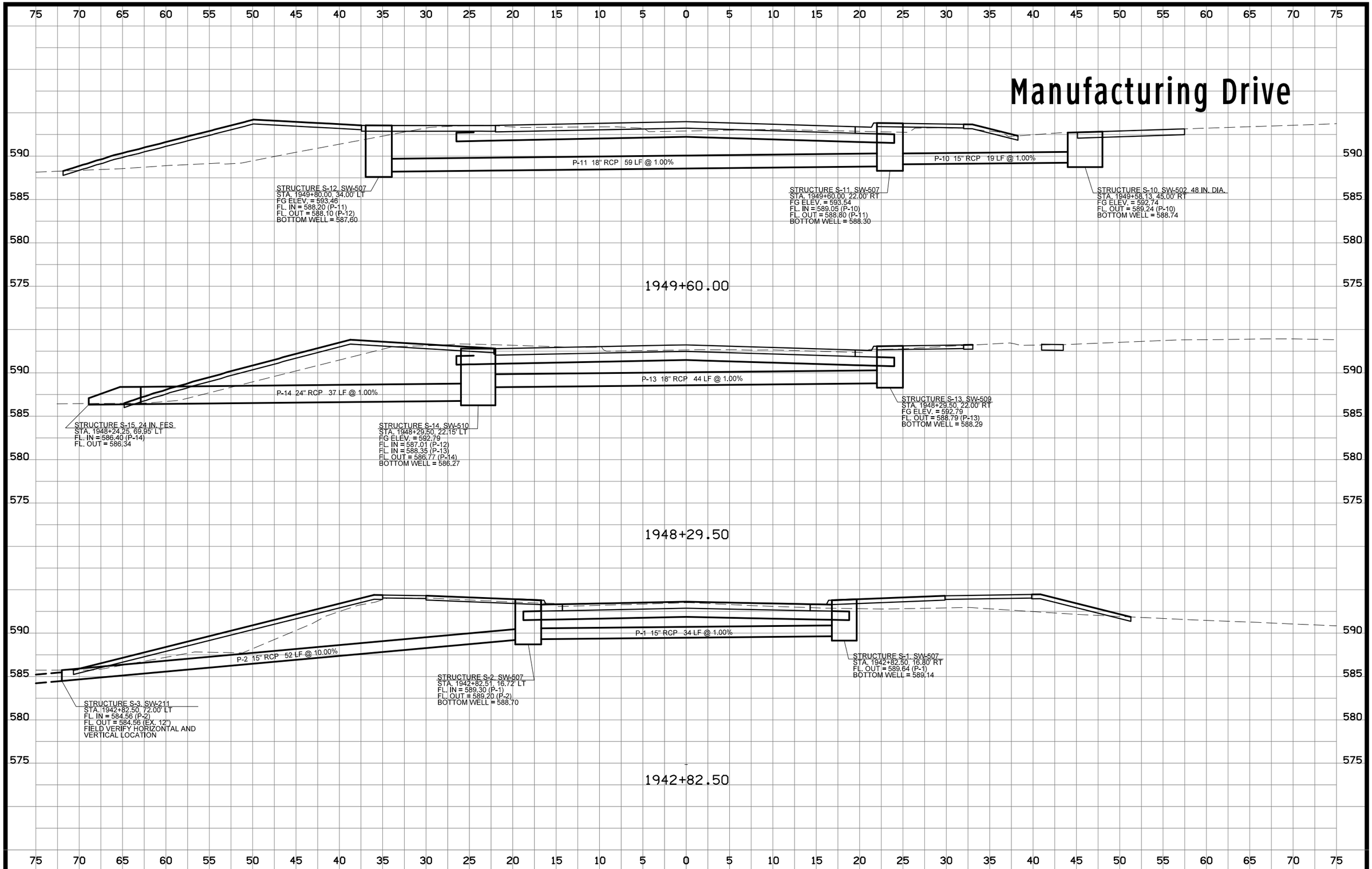




FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER M.22	REVISED

2:15:11 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_M22.dgn

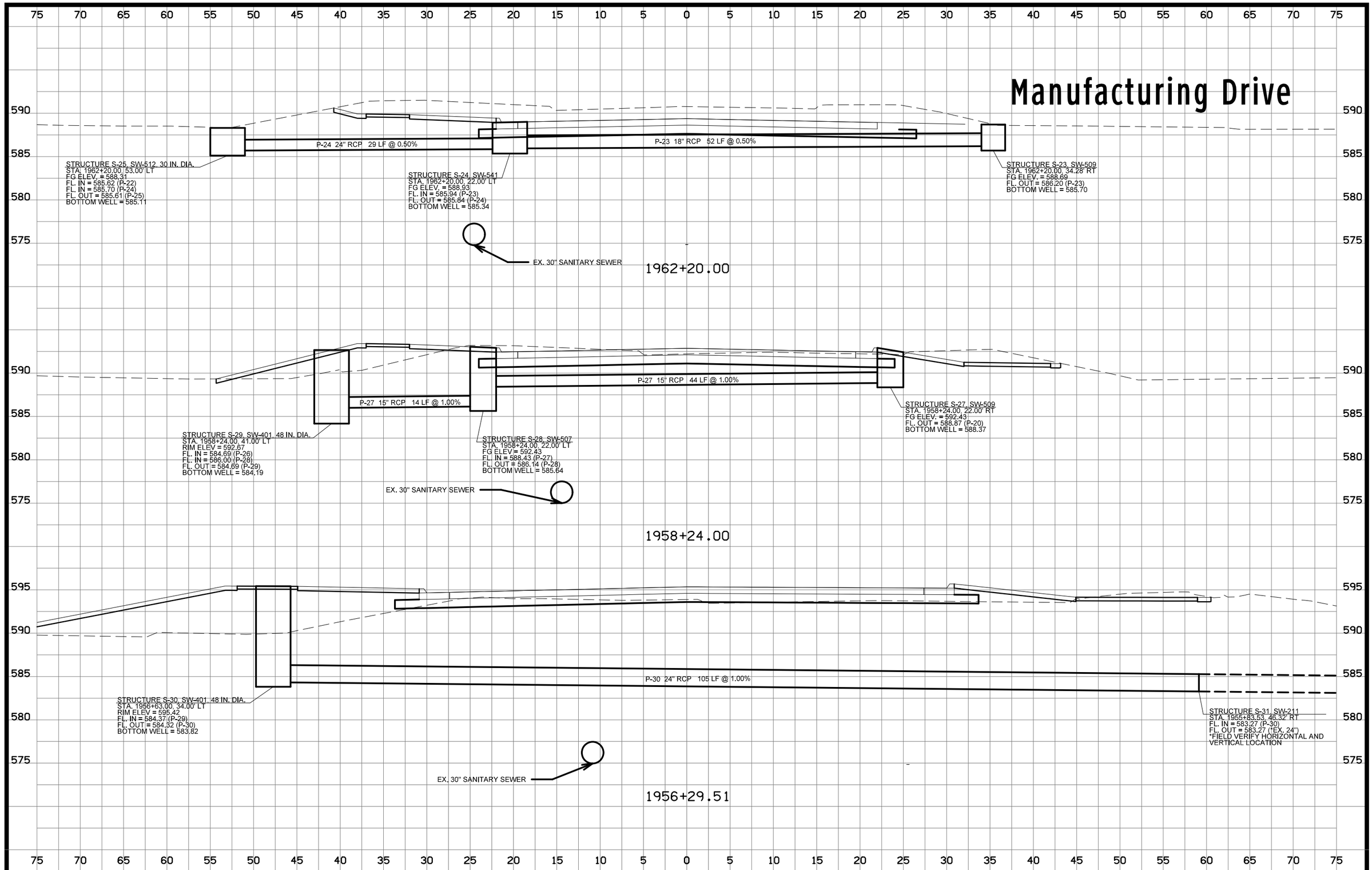
Manufacturing Drive



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER M.23	REVISED

2:15:13 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_Mxsections(ManuDr).dgn

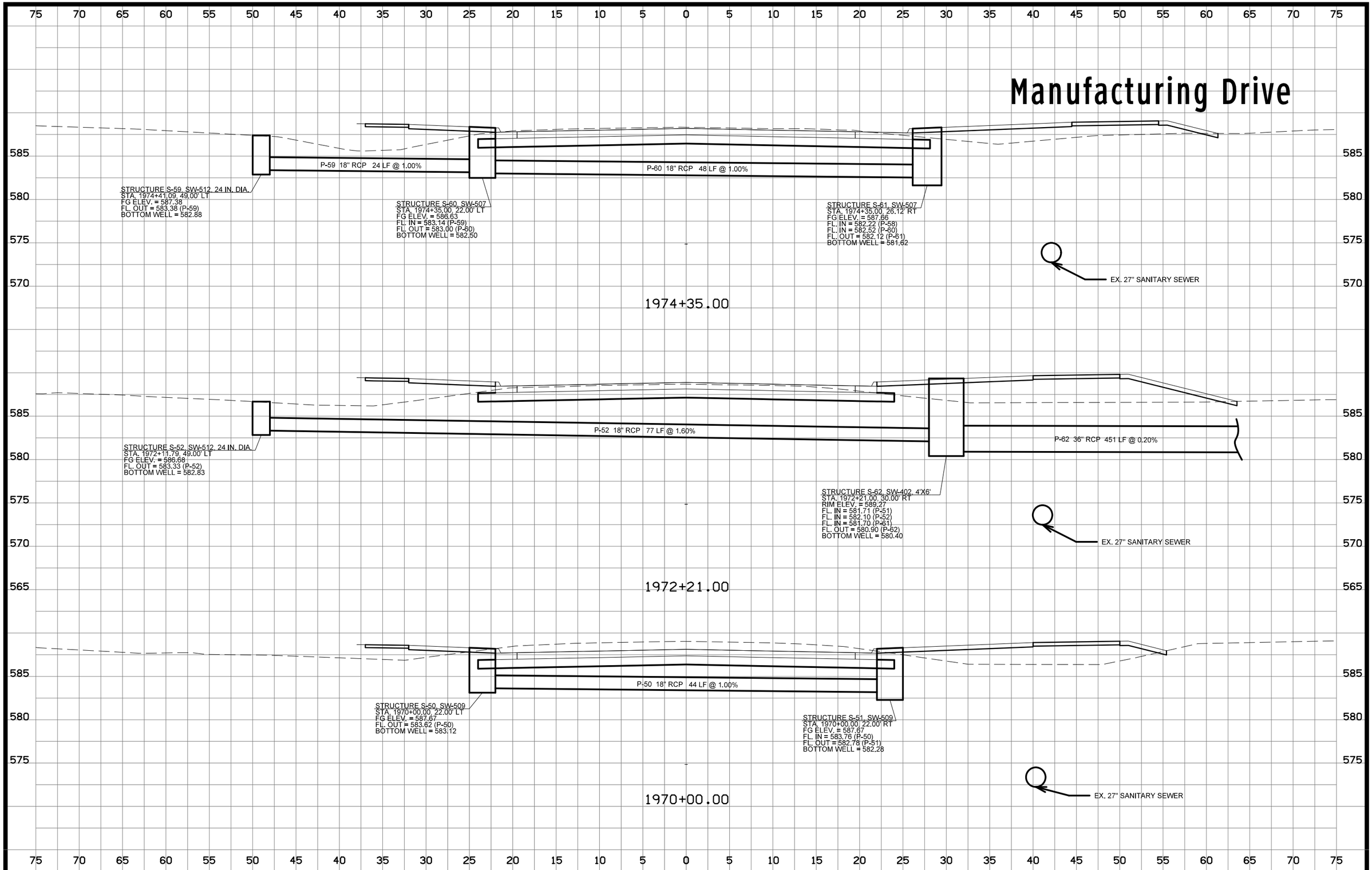
Manufacturing Drive



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER M.24	REVISED

2:15:14 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_Mxsections(ManuDr).dgn

Manufacturing Drive



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER M.25	REVISED

2:15:15 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_Mxsections(ManuDr).dgn

Manufacturing Drive

P-106 24" RCP 70 LF @ 0.50%

P-107 30" RCP 45 LF @ 0.50%

P-131 36" RCP 43 LF @ 1.00%

STRUCTURE S-107, SW-509
STA. 5083+17.72, 21.20' LT
FG ELEV. = 588.55
FL. IN = 583.91 (P-106)
FL. OUT = 583.80 (P-107)
BOTTOM WELL = 583.30

STRUCTURE S-131, SW-510
STA. 4083+10.97, 18.50' RT (19TH_EB2)
FG ELEV. = 588.44
FL. IN = 583.58 (P-107)
FL. IN = 583.93 (P-130B)
FL. OUT = 583.46 (P-131)
BOTTOM WELL = 582.96

EX. 27" SANITARY SEWER

1983+17.24

P-53 15" RCP 14 LF @ 1.00%

P-54 15" RCP 29 LF @ 1.00%

STRUCTURE S-54, SW-502, 48 IN. DIA.
STA. 10002+69.00, 25.00' LT (19TH_RAB)
FG ELEV. = 588.28
FL. OUT = 584.82 (P-54)
BOTTOM WELL = 584.32

STRUCTURE S-55, SW-401, 60 IN. DIA.
STA. 1980+95.59, 44.41' LT
RIM ELEV. = 588.49
FL. IN = 585.05 (P-53)
FL. IN = 584.53 (P-54)
FL. OUT = 584.21 (P-55)
BOTTOM WELL = 583.71

EX. 27" SANITARY SEWER

1981+13.27

P-57 15" RCP 20 LF @ 0.50%

P-57 18" RCP 44 LF @ 0.40%

STRUCTURE S-56, SW-512, 24 IN. DIA.
STA. 1977+72.00, 46.00' LT
FG ELEV. = 585.50
FL. OUT = 583.35 (P-56)
BOTTOM WELL = 582.85

STRUCTURE S-57, SW-509
STA. 1977+72.00, 22.00' LT
FG ELEV. = 586.49
FL. IN = 583.26 (P-55)
FL. IN = 583.25 (P-56)
FL. OUT = 583.15 (P-57)
BOTTOM WELL = 582.65

STRUCTURE S-58, SW-509
STA. 1977+72.00, 22.00' RT
FG ELEV. = 586.49
FL. IN = 582.98 (P-57)
FL. OUT = 582.88 (P-58)
BOTTOM WELL = 582.38

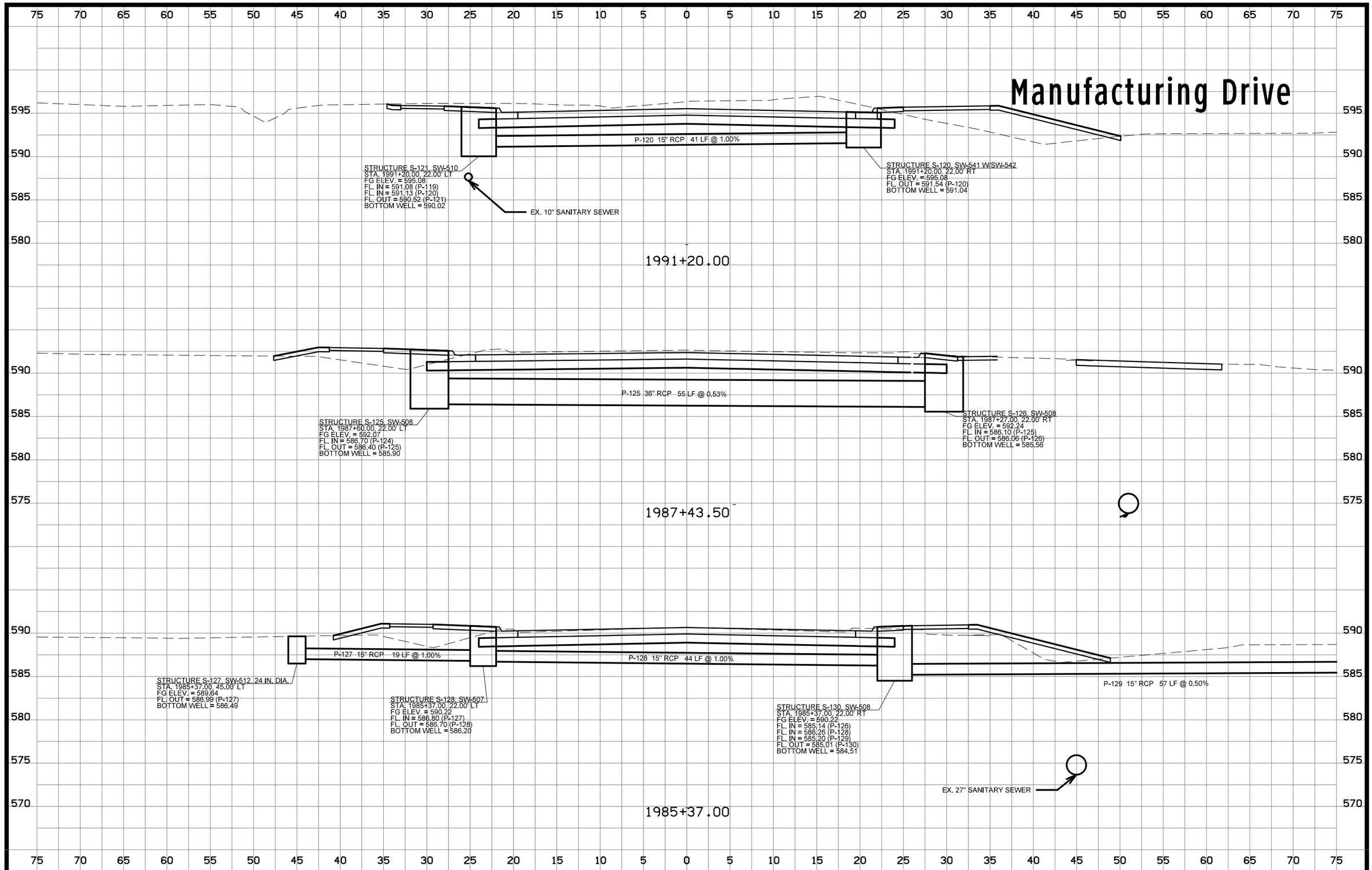
EX. 27" SANITARY SEWER

1977+72.00

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER M.26	REVISED

2:15:15 PM 7/2/2021 sschellch P:\30618011-001\06-Drawings\Civil\Dgns\30618011_Mxsections(ManuDr).dgn

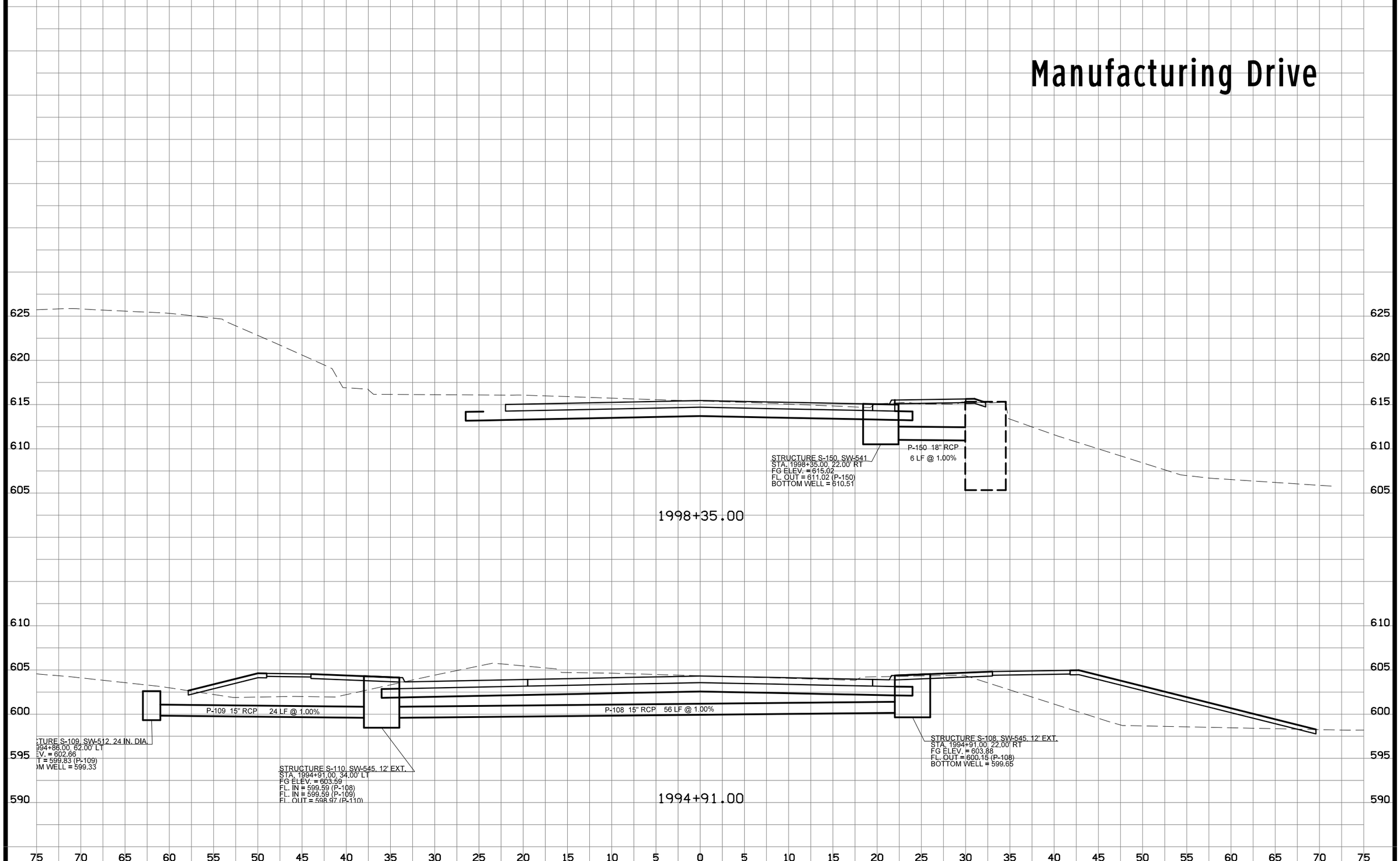
Manufacturing Drive



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER M.27	REVISED

2:15:16 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_Mxsections(ManuDr).dgn

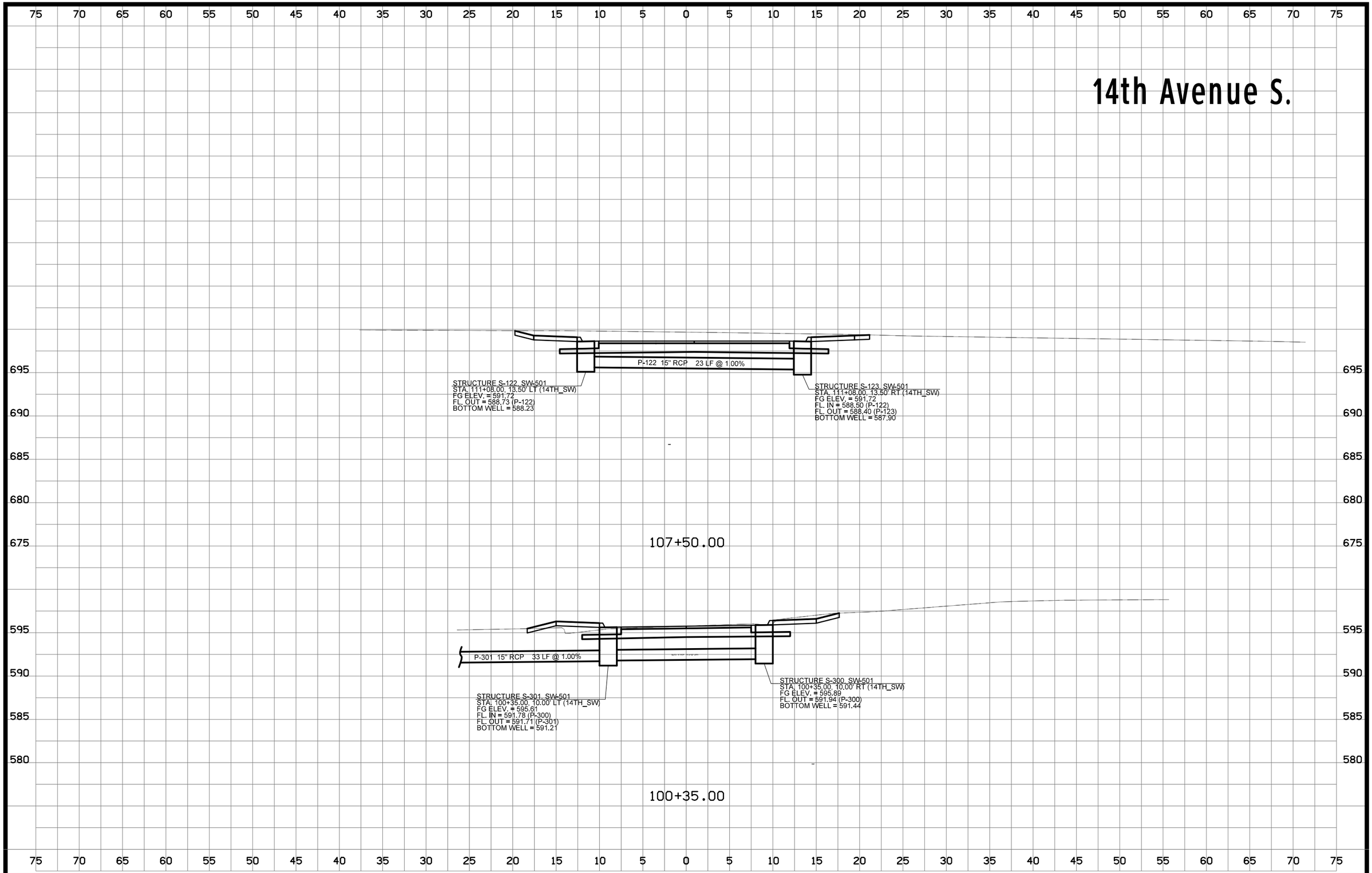
Manufacturing Drive



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER M.28	REVISED

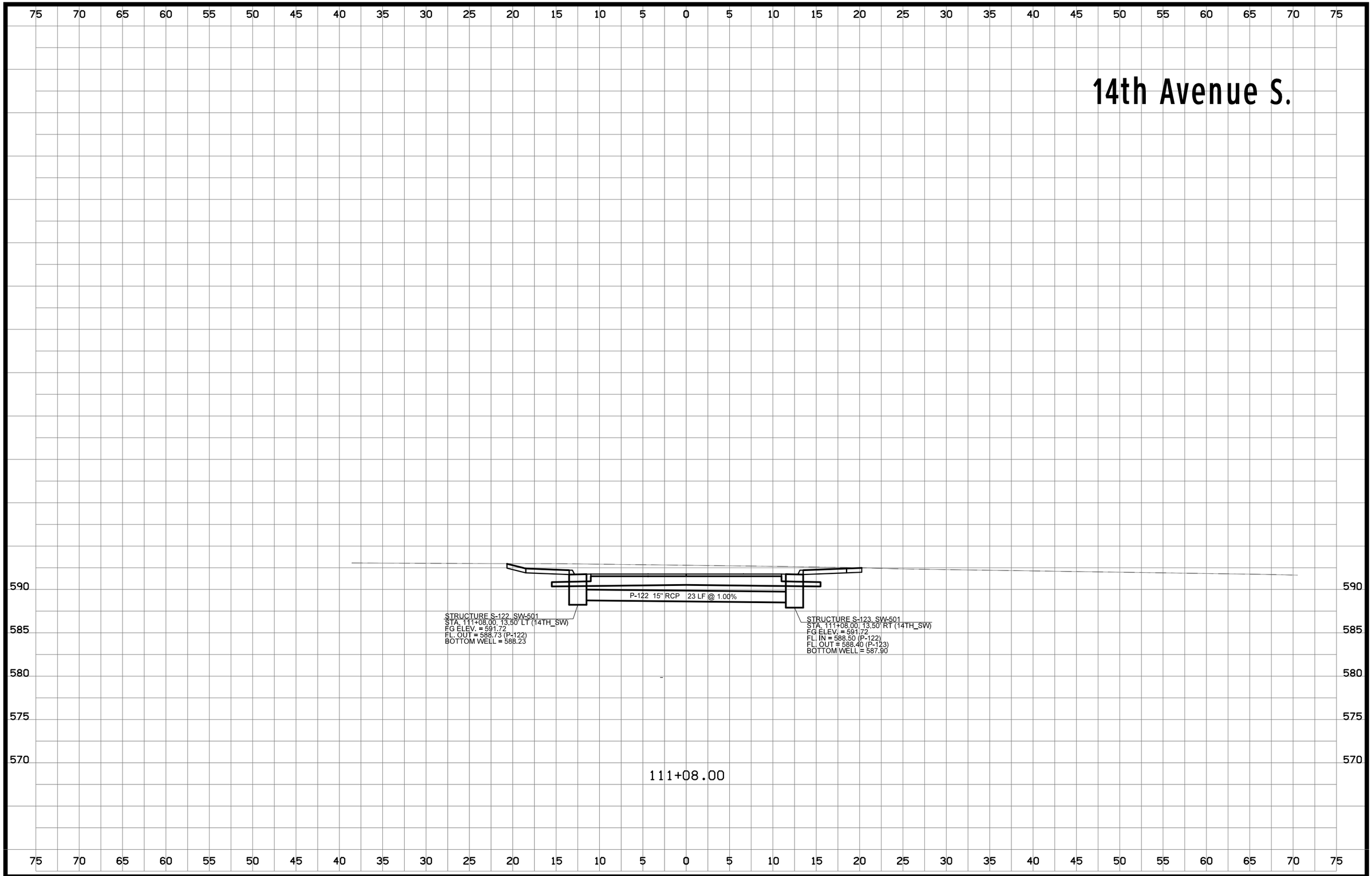
2:15:17 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_Mxsections(ManuDr).dgn

14th Avenue S.



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER M.29	REVISED

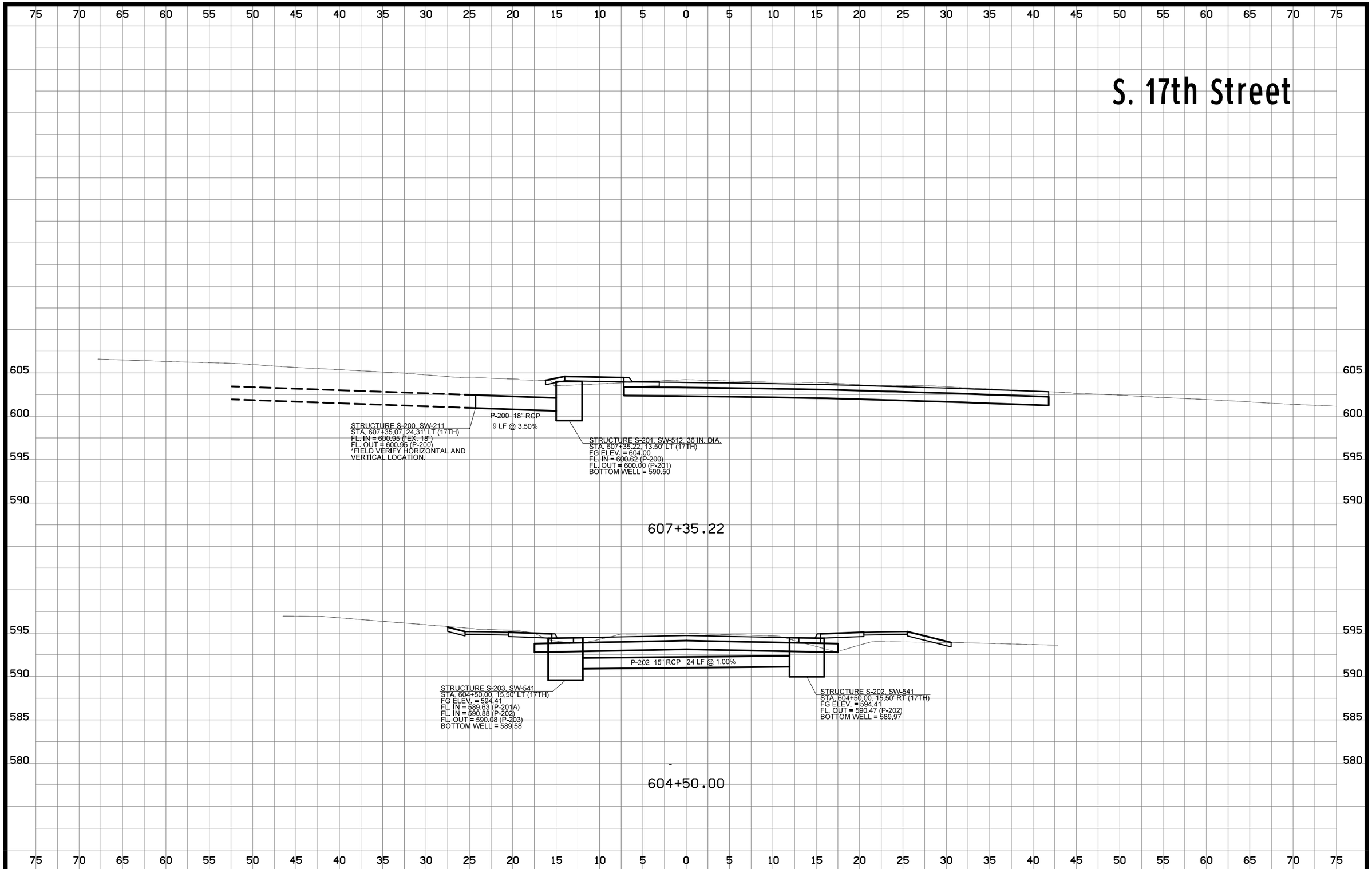
2:15:18 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_Mxsections(14th).dgn



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER M.30	REVISED

2:15:19 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_Mxsections(14th).dgn

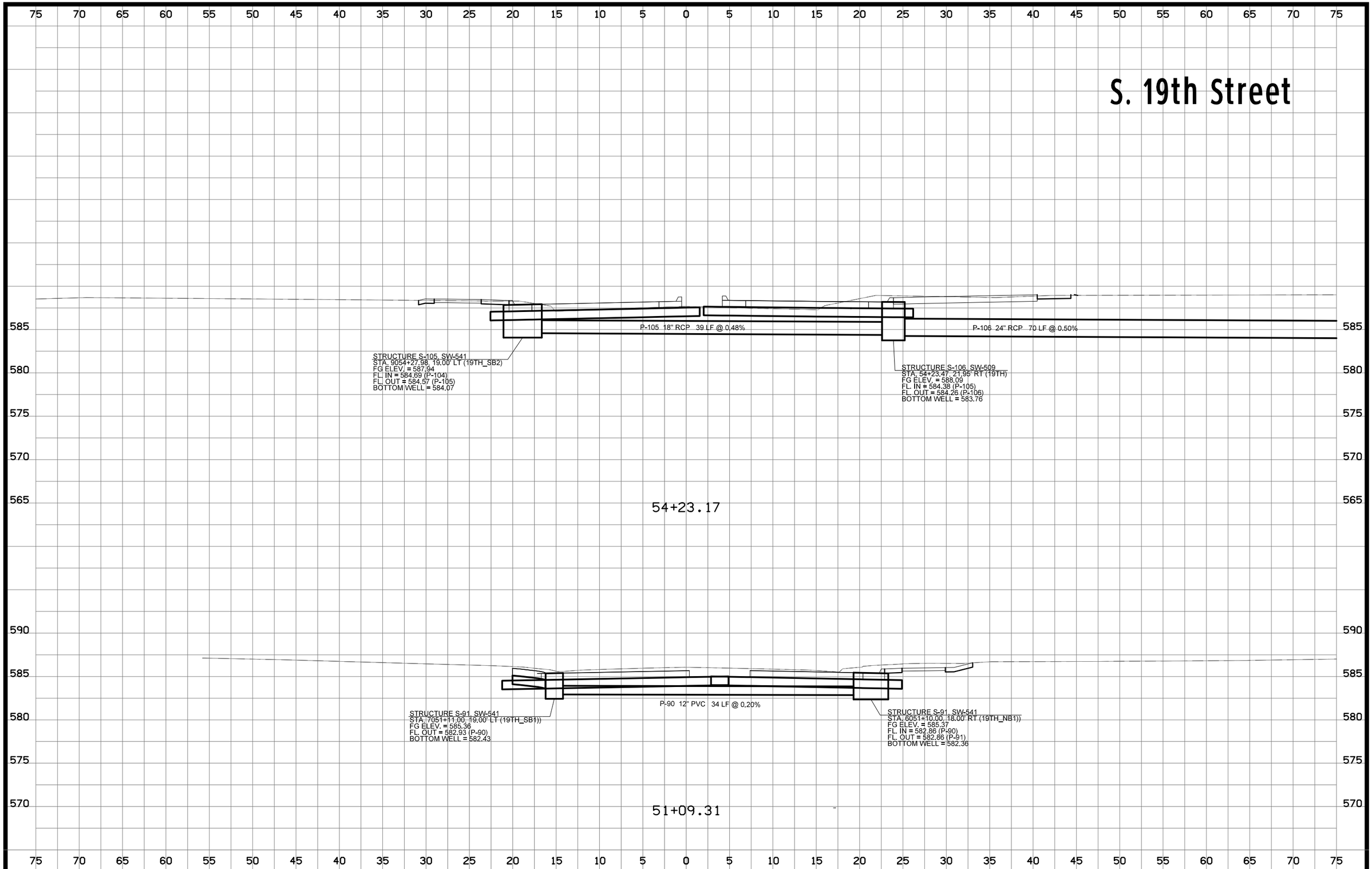
S. 17th Street



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER M.31	REVISED

2:15:20 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_Mxsections(17th).dgn

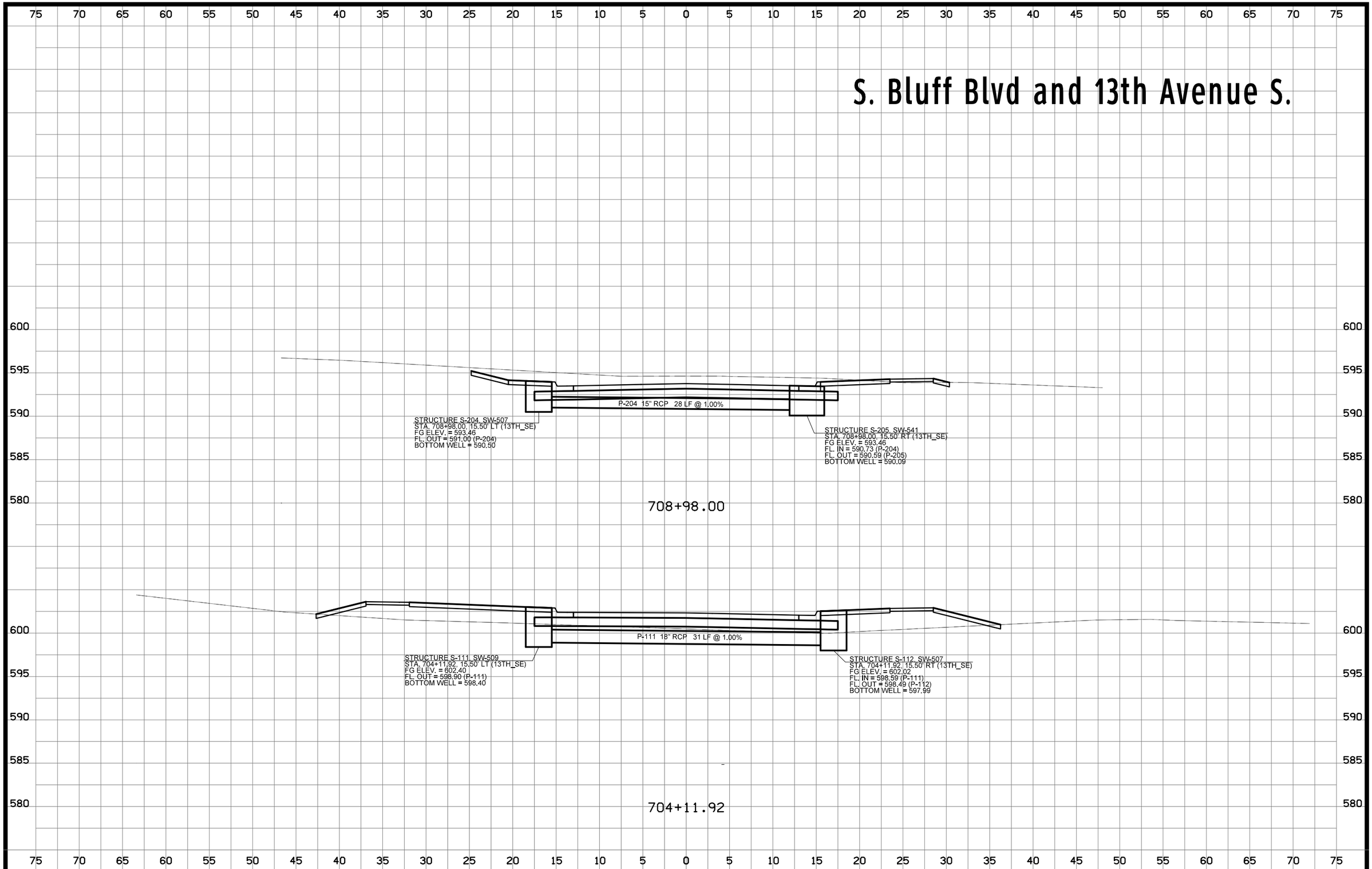
S. 19th Street



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER M.32	REVISED

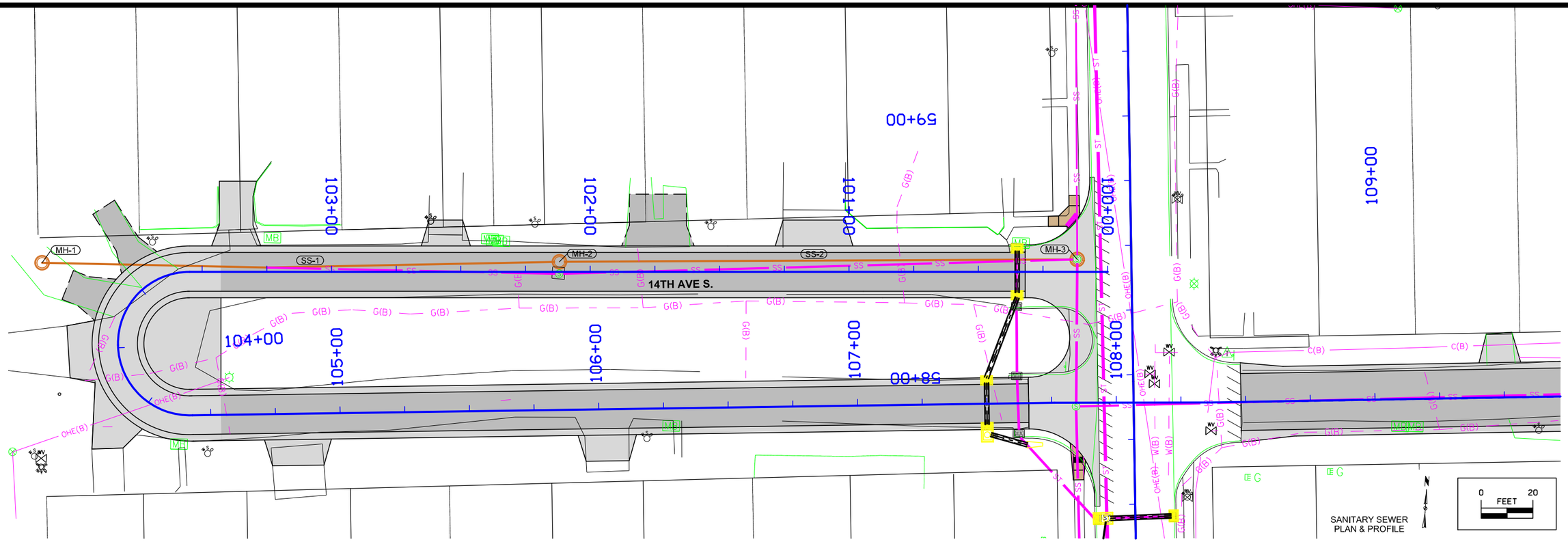
2:15:21 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_Mxsections(19th).dgn

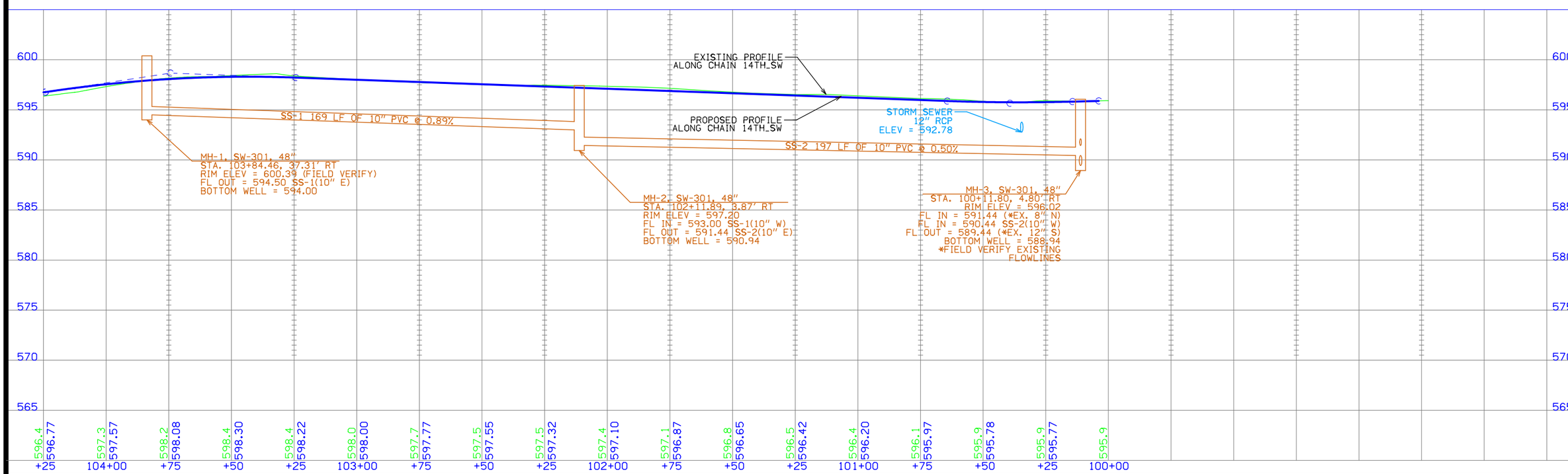
S. Bluff Blvd and 13th Avenue S.



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER M.33	REVISED

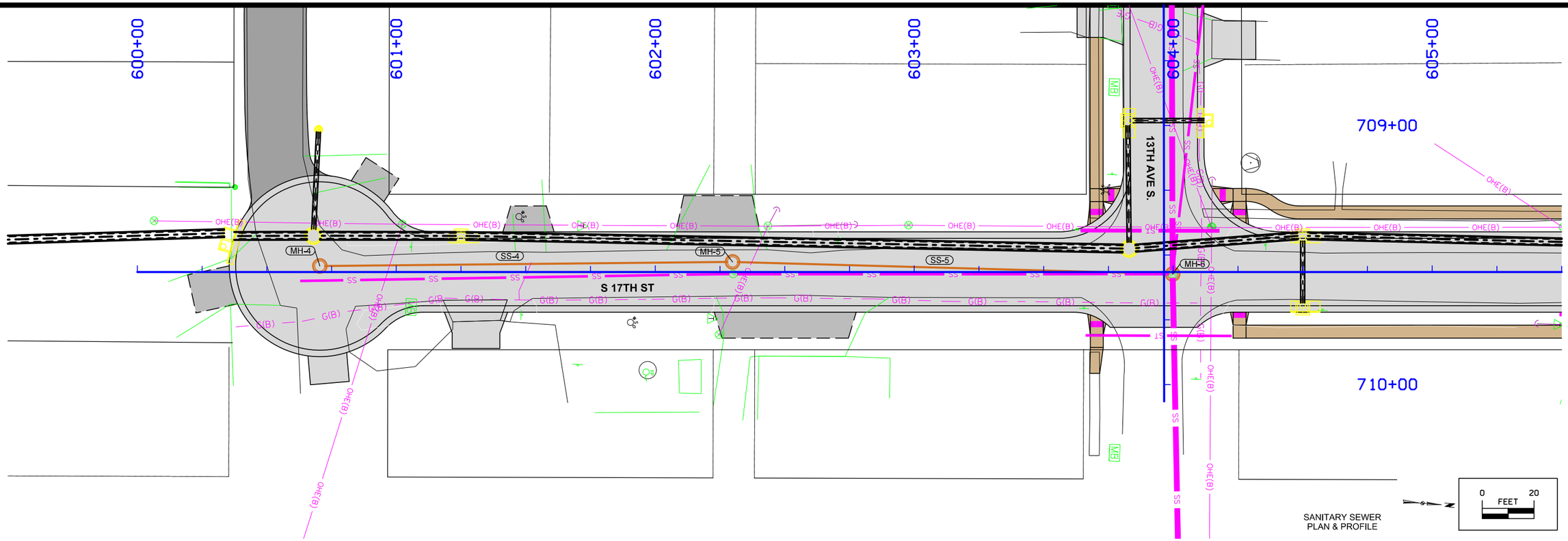
2:15:22 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_Mxsections(Bluff and 13th).dgn

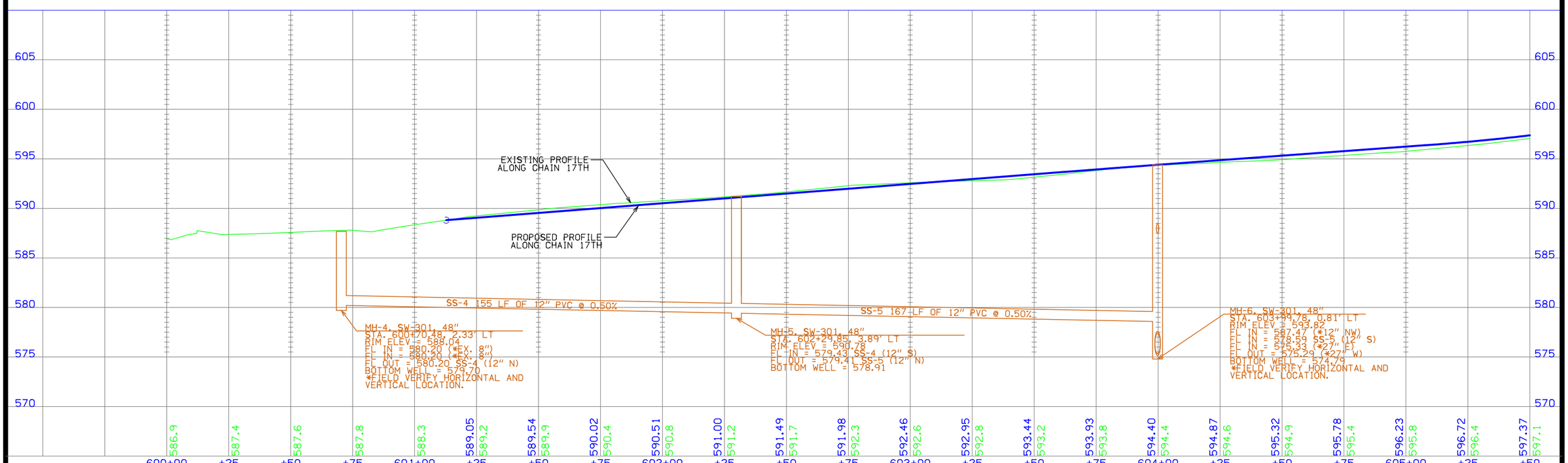




FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER MSA.1	REVISED

2:15:30 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_MSA01.dgn





FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER **MSA.2**	REVISED

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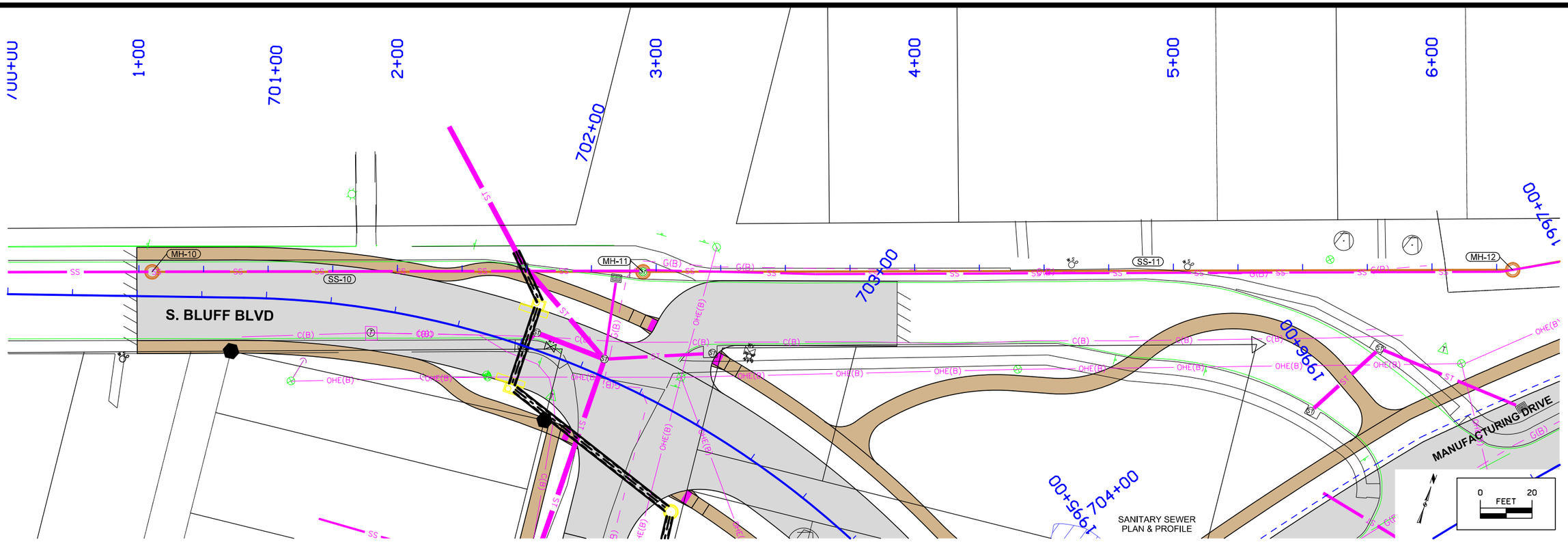
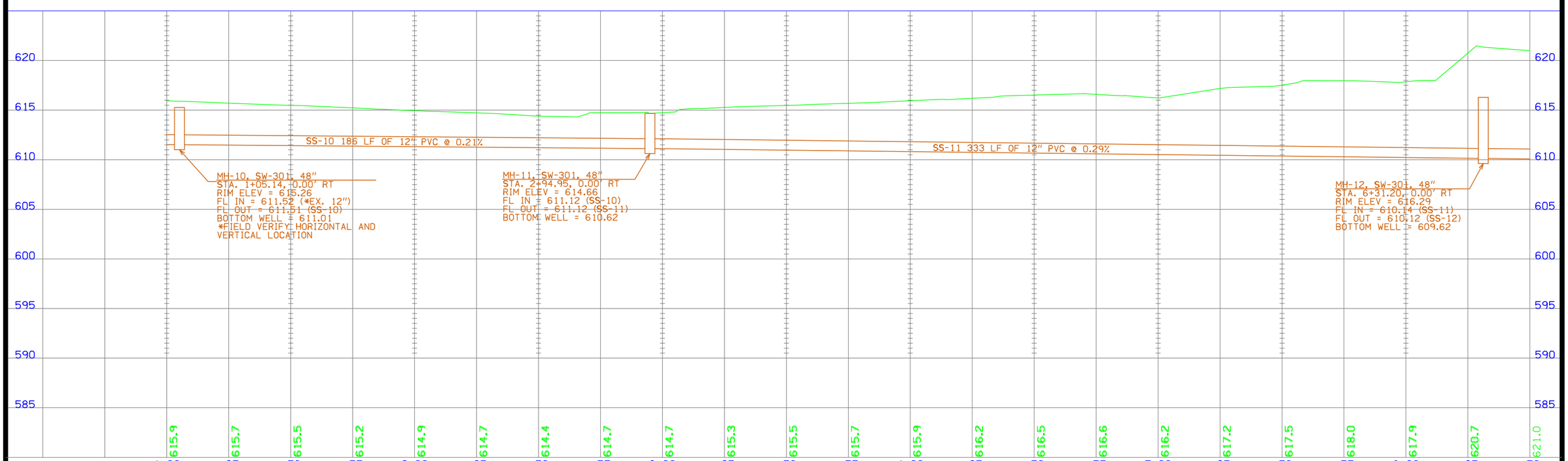
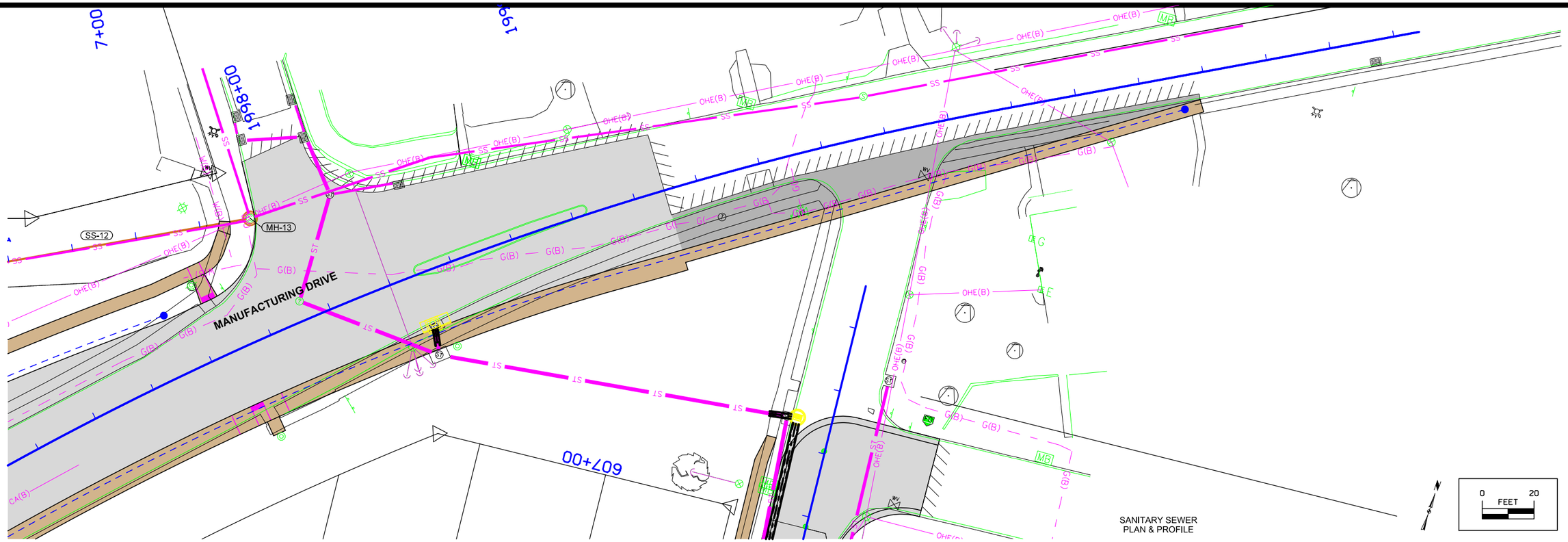
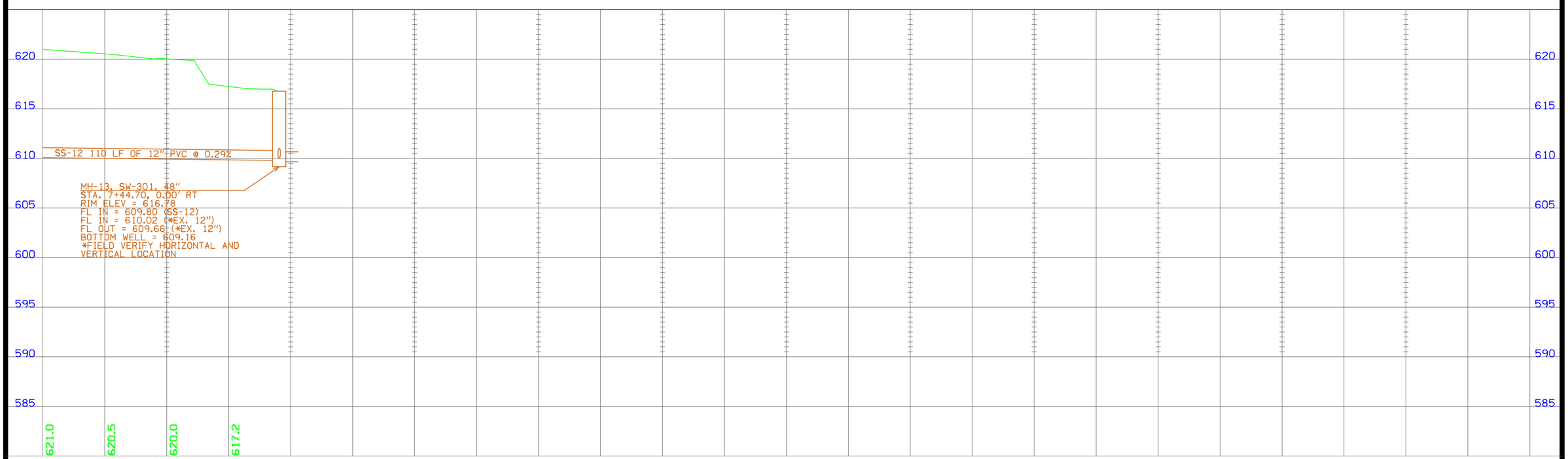




FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER **MSA.3**	REVISED

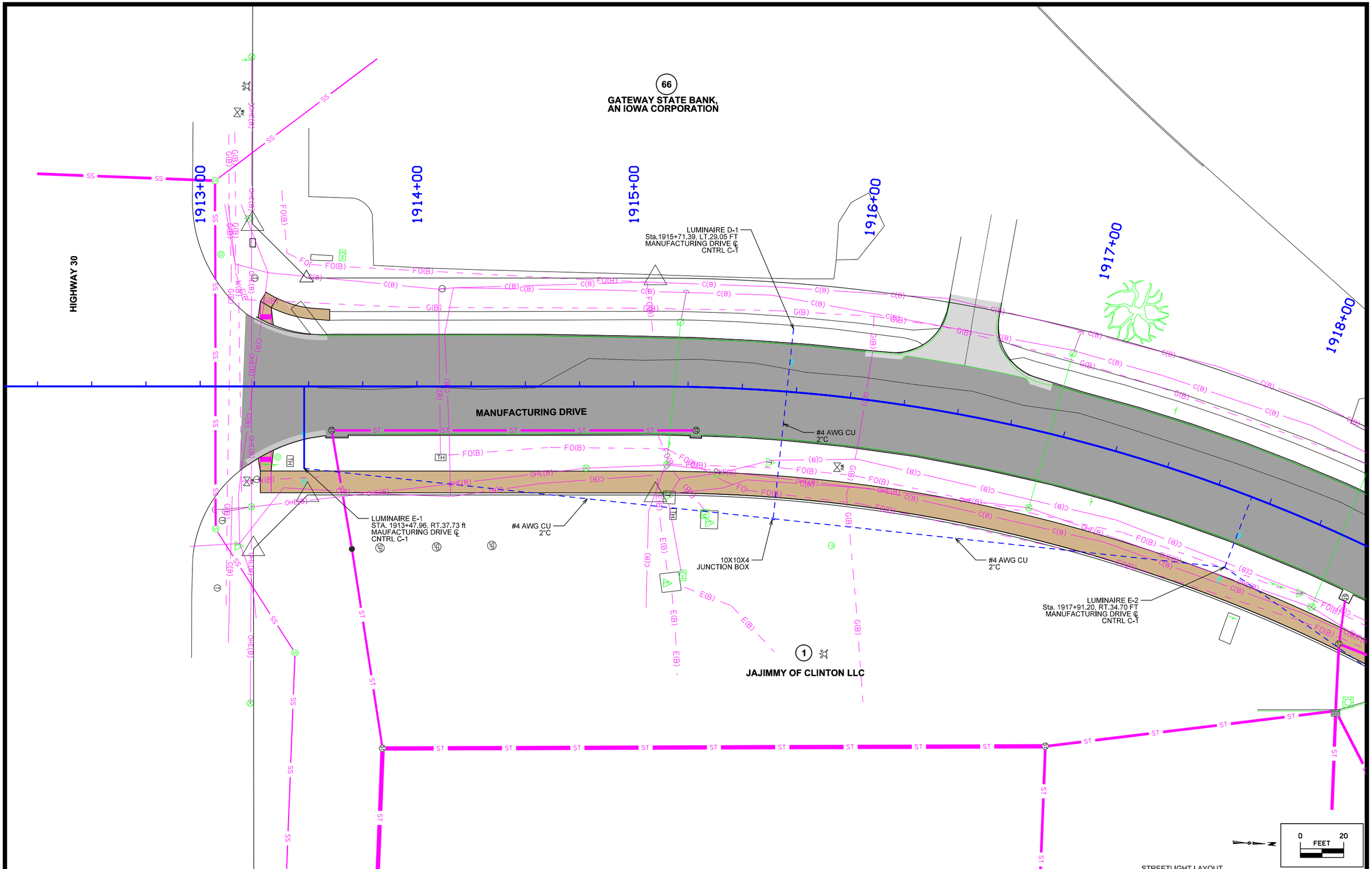
2:15:34 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_MSA03.dgn





FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER MSA.4	REVISED

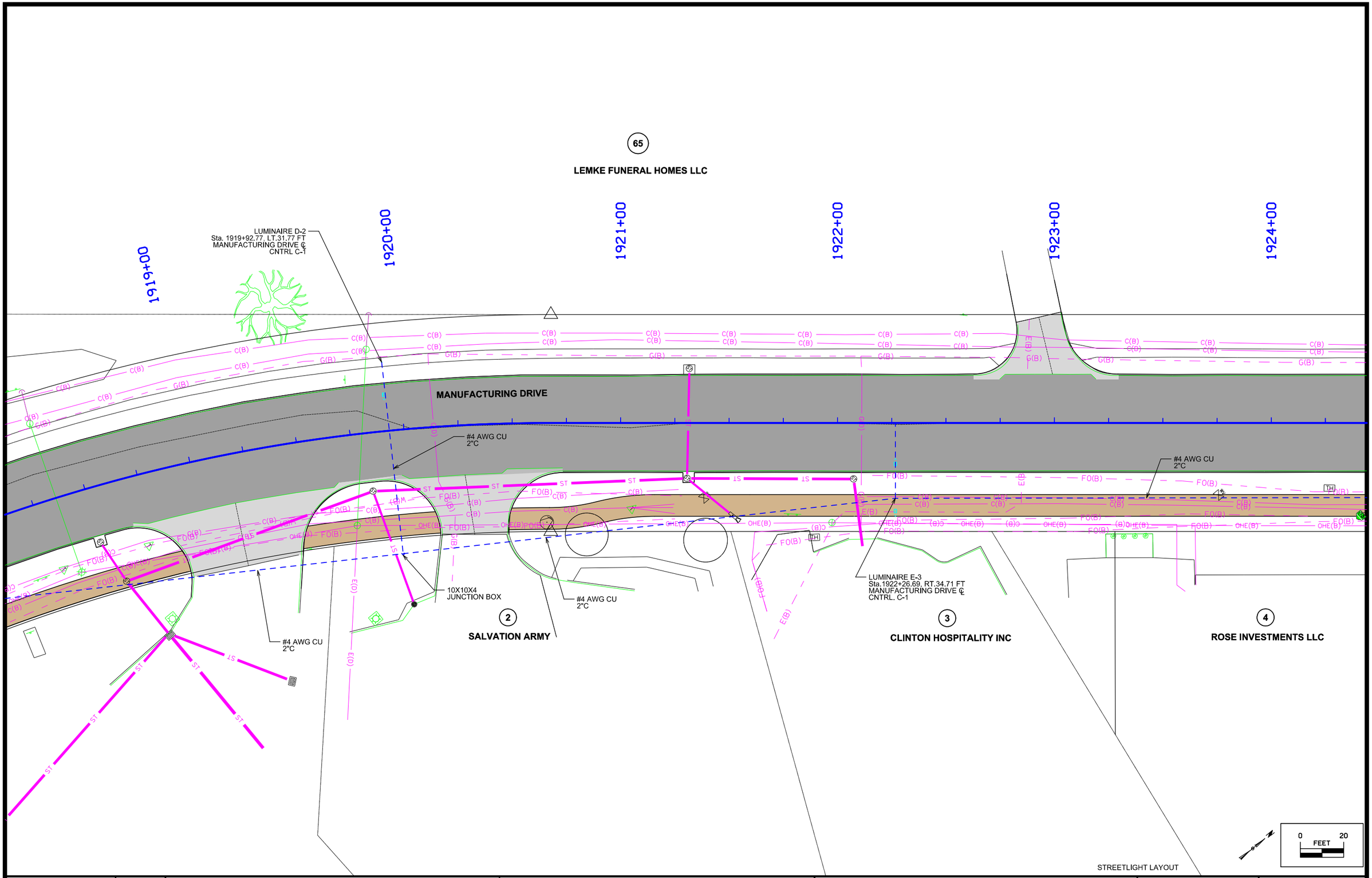
2:15:35 PM 7/2/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_MSA04.dgn



STREETLIGHT LAYOUT

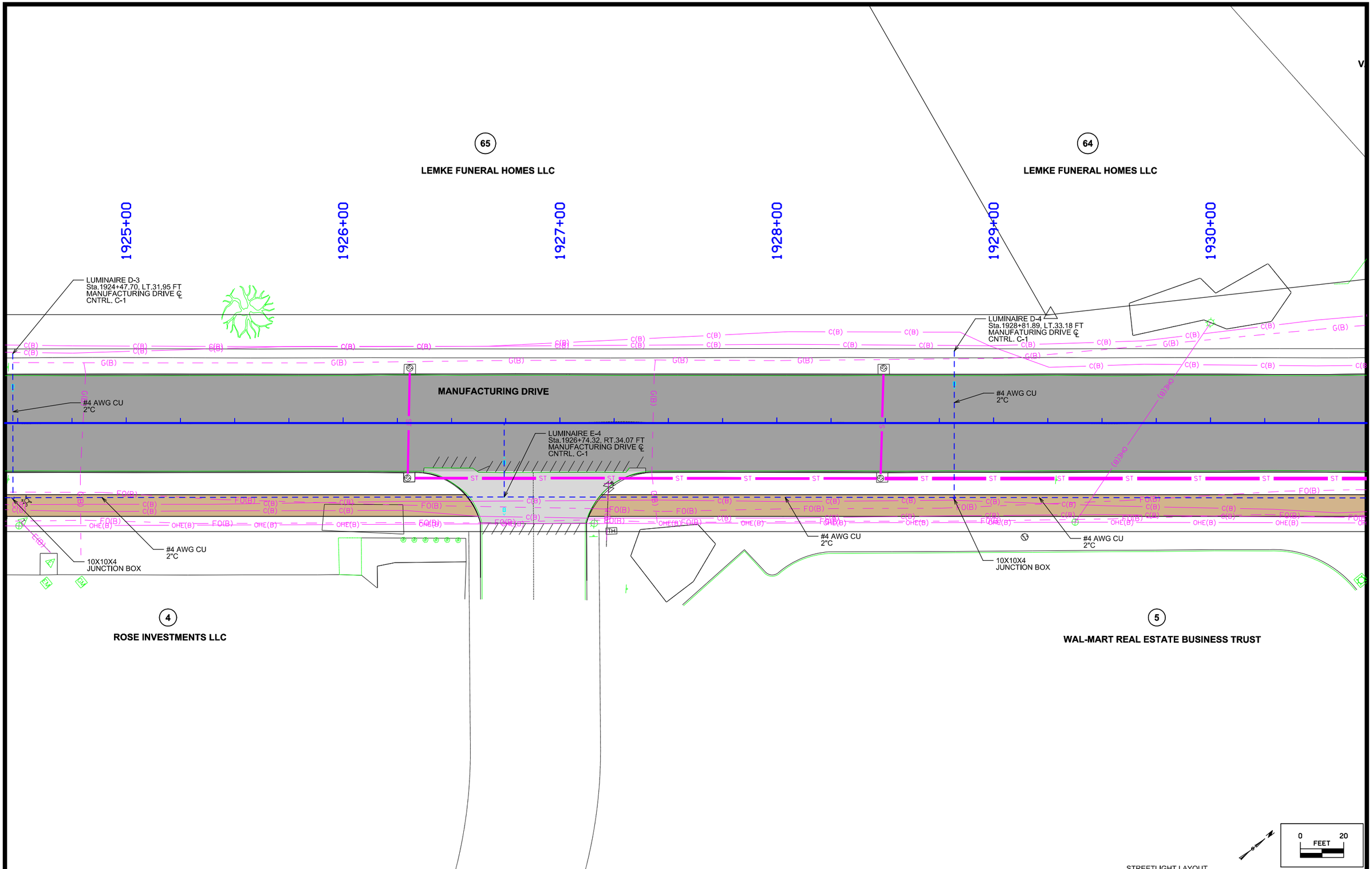
FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER P.1	REVISED

11:40:09 AM 7/6/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_P01.dgn



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER P.2	REVISED

11:40:10 AM 7/6/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_P02.dgn



STREETLIGHT LAYOUT

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER P.3	REVISED

11:40:12 AM 7/6/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_P03.dgn

63

LLEY BLUFF TOWNHOMES LLC

62

VALLEY BLUFF TOWNHOMES LLC

61

DHCU COMMUNITY CREDIT UNION

1931+00

1932+00

1933+00

1934+00

1935+00

1936+00

VALLEY W CT

MANUFACTURING DRIVE

LUMINAIRE D-5
Sta.1933+30.12, LT.34.67 FT
MANUFACTURING DRIVE ℄
CNTRL. C-1

LUMINAIRE D-7
Sta.1936+13.09, LT.24.64 FT
CNTRL. C-1

LUMINAIRE D-8
Sta.1936+23.75, RT.52.96 FT
CNTRL. C-1

#4 AWG CU
2"C

#4 AWG CU
2"C

#4 AWG CU
2"C

#4 AWG CU
2"C

#4 AWG CU
2"C

#4 AWG CU
2"C

#4 AWG CU
2"C

10X10X4
JUNCTION BOX

LUMINAIRE E-6
Sta.1931+19.00, RT.34.57 FT
MANUFACTURING DRIVE ℄
CNTRL. C-1

LUMINAIRE E-8
Sta.1935+54.46, RT.34.88 FT
CNTRL. C-1

6

ROSE DAVID A & SUZANNE M
REVOCABLE LIVING TRUST

6

ROSE DAVID A & SUZANNE M
REVOCABLE LIVING TRUST

0 20
FEET

STREETLIGHT LAYOUT

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER P.4	REVISED

11:40:13 AM 7/6/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_P04.dgn

60
GATEWAY LEASING CORPORATION

59
VALLEY BLUFF CORPORATION AN ILLINOIS CORPORATION

58
VALLEY BLUFF HORIZONS STORM WATER DETENTION & MGTMNT ASSOC

57
CHICAGO & N W RY CO

1938+00
1939+00
1940+00
1941+00
1942+00
1943+00

LUMINAIRE D-12
Sta.1942+85.35 LT. 37.04 FT
CNTRL. C-1

LUMINAIRE D-11
Sta.1938+62.15 LT.31.90 FT
CNTRL. C-1

LUMINAIRE D-9
Sta.1937+56.99, Lt. 24.34 FT
CNTRL. C-1

MANUFACTURING DRIVE

#4 AWG CU
2"C

#4 AWG CU
2"C

#4 AWG CU
2"C

LUMINAIRE E-9
Sta.1940+72.92 RT. 29.03 FT
CNTRL. C-1

10X10X4
JUNCTION BOX

#4 AWG CU
2"C

#4 AWG CU
2"C

10X10X4
JUNCTION BOX

CONTROLLER
C-1

7
QUEENS PLAZA LLC

8
CINEMA ENTERTAINMENT CORP
A MINNESOTA CORP

9
CHICAGO & N W RY CO

0 20
FEET

STREETLIGHT LAYOUT

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER P.5	REVISED

11:40:15 AM 7/6/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_P05.dgn

57

CHICAGO & N W RY CO

56

NESTLE PURINA

1944+00

1945+00

1946+00

1947+00

1948+00

1949+00

MANUFACTURING DRIVE

LUMINAIRE D-14
Sta.1946+95.93 LT. 29.20 FT
CNTRL. C-1

#4 AWG CU
2"C

LUMINAIRE D-15
Sta.1948+99.71 RT. 38.30 FT
CNTRL. C-1

#4 AWG CU
2"C

LUMINAIRE D-13
Sta.1944+99.71 RT. 37.74 FT
CNTRL. C-1

#4 AWG CU
2"C

10X10X4
JUNCTION BOX

#4 AWG CU
2"C

10

SCHULTZ DORIS M

11

EASTERN IOWA TIRE INC

12

K & T REAL ESTATE LLC

0 20
FEET

STREETLIGHT LAYOUT

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER P.6	REVISED

11:40:16 AM 7/6/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_P06.dgn

56
NESTLE PURINA

1950+00
1951+00
1952+00
1953+00
1954+00
1955+00

LUMINAIRE D-16
Sta.1951+1.27 LT. 24.85 FT
CNTRL. C-1

LUMINAIRE D-17
Sta.1952+87.10 RT. 53.86 FT
CNTRL. C-1

LUMINAIRE D-30
Sta.1954+83.88 LT. 21.68 FT
CNTRL. C-1

MANUFACTURING DRIVE

#4 AWG CU
2"C

10X10X4
JUNCTION BOX

13
K & T REAL ESTATE LLC

14
END OF THE ROAD LLC

15
CITY OF CLINTON

STREETLIGHT LAYOUT

0 FEET 20

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER P.7	REVISED

11:40:18 AM 7/6/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_P07.dgn

55
CITY OF CLINTON

54
JEUCK PHILIP JR & M

1956+00
1957+00
1958+00
1959+00
1960+00
1961+00
1962+00

LUMINAIRE E-11
Sta.1954+83.88 LT. 31.54 FT
CNTRL. C-2

MANUFACTURING DRIVE

#3 AWG CU
2"C

#4 AWG CU
2"C

LUMINAIRE E-10
Sta.1956+60.15 RT. 46.69 FT
CNTRL. C-1

10X10X4
JUNCTION BOX

#3 AWG CU
2"C

#3 AWG CU
2"C

LUMINAIRE E-12
Sta.1952+87.10 RT. 36.39 FT
CNTRL. C-2

16
CLAUSEN BROTHERS LLC

17
SMITH FAMILY PARTNERSHIP LLC

18
LASHELLE JAMES L II

0 20
FEET

STREETLIGHT LAYOUT

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER P.8	REVISED

11:40:19 AM 7/6/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_P08.dgn

54

JEUCK PHILIP JR & M

53

APMS LC SERIES 24 AN IOWA LIMITED LIABILITY COMPANY

1963+00

1964+00

1965+00

1966+00

1967+00

1968+00

LUMINAIRE D-18
Sta.1962+50.08 LT. 31.40 FT
CNTRL. C-2

LUMINAIRE E-14
Sta.1965+61.14 LT. 41.93 FT
CNTRL. C-2

#3 AWG CU
2"C

MANUFACTURING DRIVE

#3 AWG CU
2"C

10X10X4
JUNCTION BOX

#3 AWG CU
2"C

#3 AWG CU
2"C

#3 AWG CU
2"C

LUMINAIRE E-13
Sta.1964+13.14 RT. 32.58 FT
CNTRL. C-2

10X10X4
JUNCTION BOX

LUMINAIRE E-15
Sta.1967+68.82 RT. 32.36 FT
CNTRL. C-2

S 21ST ST

19

ROSE DAVID A & SUZANNE M
REVOCABLE LIVING TRUST

0 FEET 20

STREETLIGHT LAYOUT

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER P.9	REVISED

11:40:21 AM 7/6/2021 sschellch P:\30618011-001\06-Drawings\Civil\Dgns\30618011_P09.dgn

53

APMS LC SERIES 24 AN IOWA LIMITED LIABILITY COMPANY

52

APMS LC SERIES 7

1969+00

1970+00

1971+00

1972+00

1973+00

1974+00

LUMINAIRE E-16
Sta.1969+77.72 LT. 29.83 FT
CNTRL. C-2

LUMINAIRE E-18
Sta.1973+82.19 LT. 29.67 FT
CNTRL. C-2

MANUFACTURING DRIVE

#3 AWG CU
2"C

10X10X4
JUNCTION BOX

LUMINAIRE E-17
Sta.1971+87.44 RT. 32.53 FT
CNTRL. C-2

CONTROLLER
C-2

20

LARSON LUANN

21

EASTERN IOWA COMMUNITY COLLEGE DISTRICT

STREETLIGHT LAYOUT

0 FEET 20

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER P.10	REVISED

11:40:22 AM 7/6/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_P10.dgn

51

MISSISSIPPI BEND AREA EDUCATION AGENCY

50

APMS LC SERIES 4

1975+00

1976+00

1977+00

1978+00

1979+00

1980+00

LUMINAIRE E-20
Sta.1978+12.61 LT. 28.75 FT
CNTRL. C-2

#3 AWG CU
2"C

MANUFACTURING DRIVE

#3 AWG CU
2"C

#3 AWG CU
2"C

LUMINAIRE E-19
Sta.1975+96.15 RT. 32.56 FT
CNTRL. C-2

10X10X4
JUNCTION BOX

#3 AWG CU
2"C

#3 AWG CU
2"C

24

TLC PRORERTIES INC

22

MARKS AUTO REPAIR INC

23

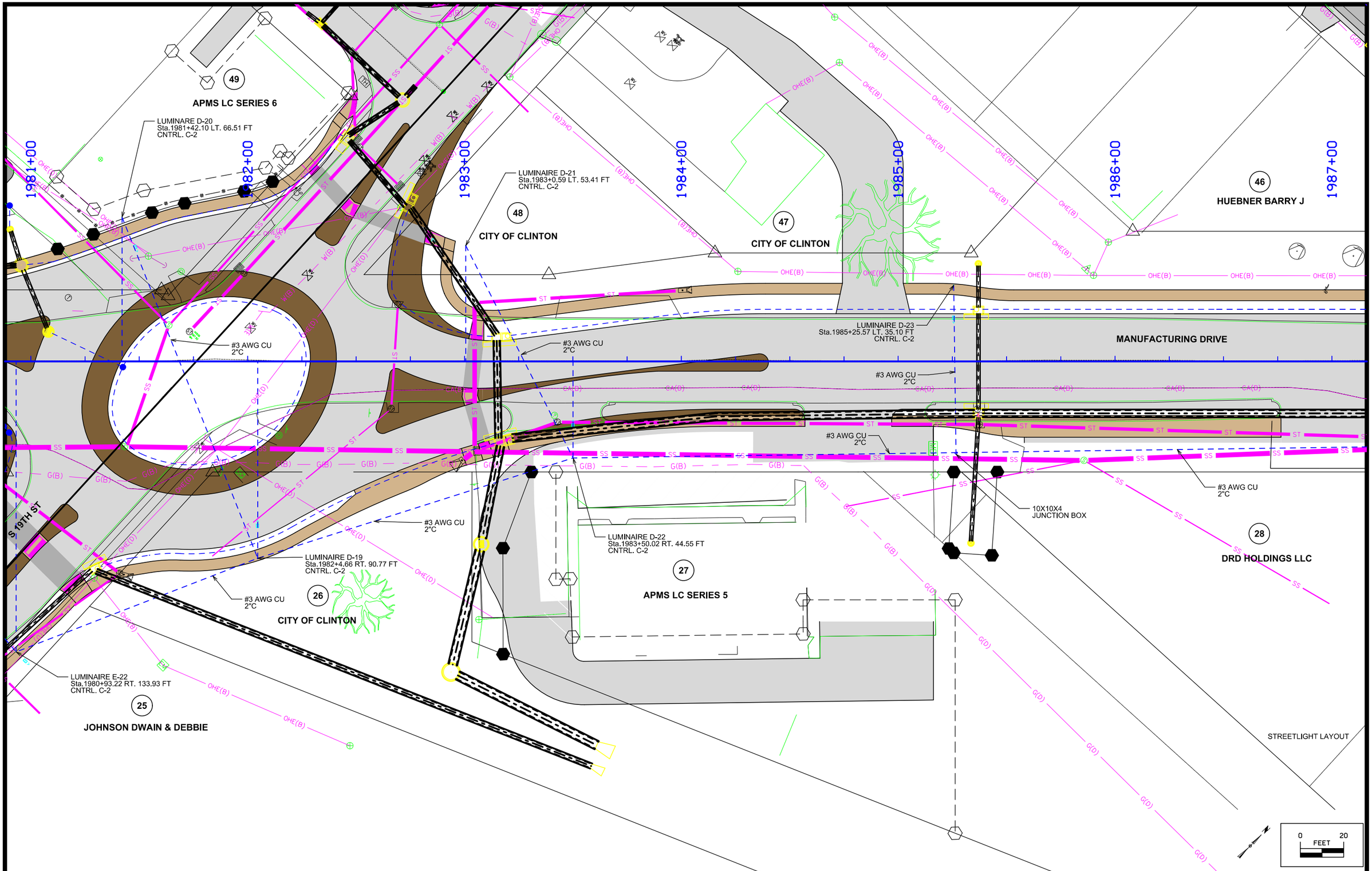
APMS LC SERIES 11

S 19TH ST

0 FEET 20

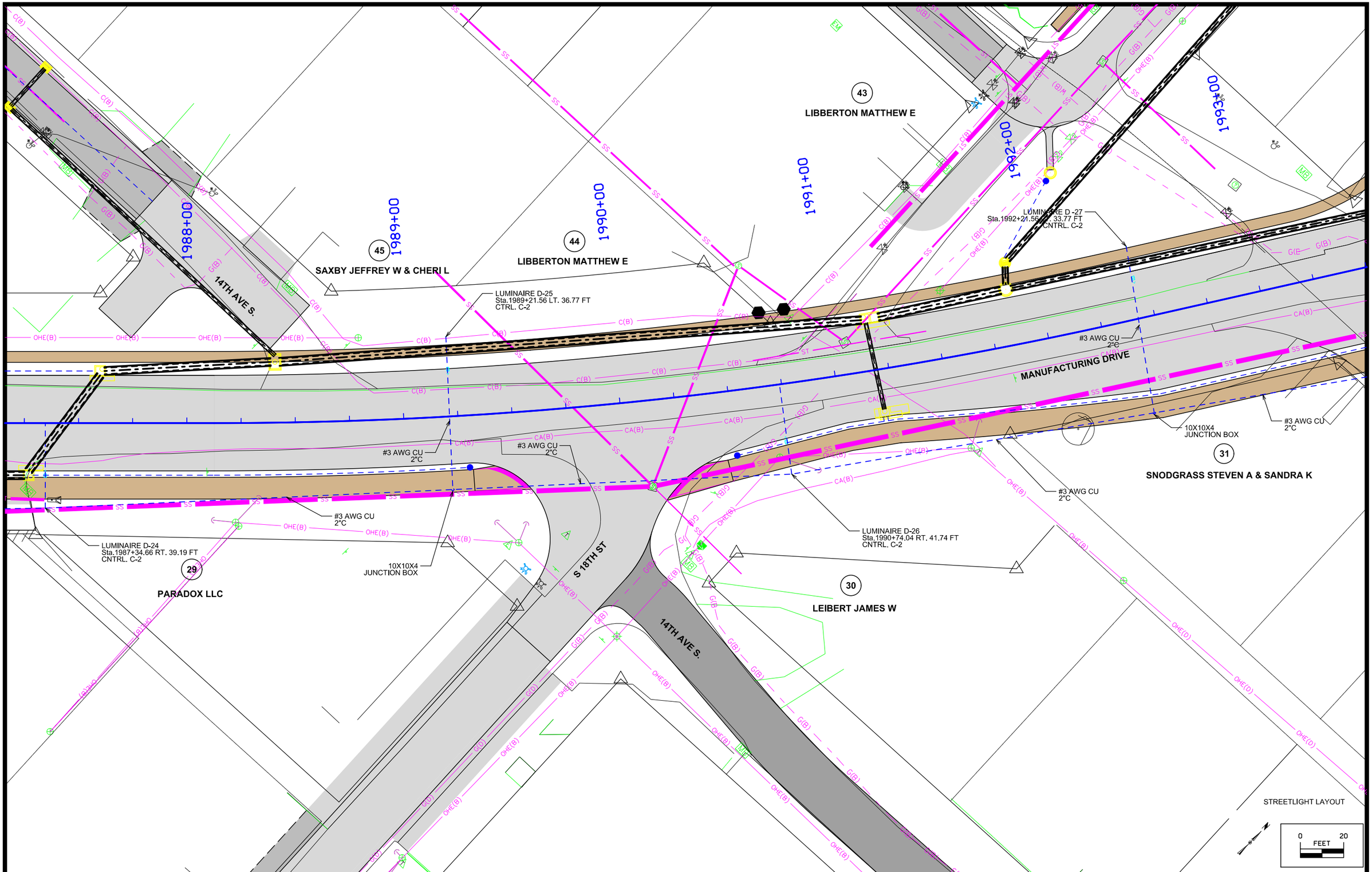
FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER P.11	REVISED

11:40:24 AM 7/6/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_P11.dgn



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER P.12	REVISED

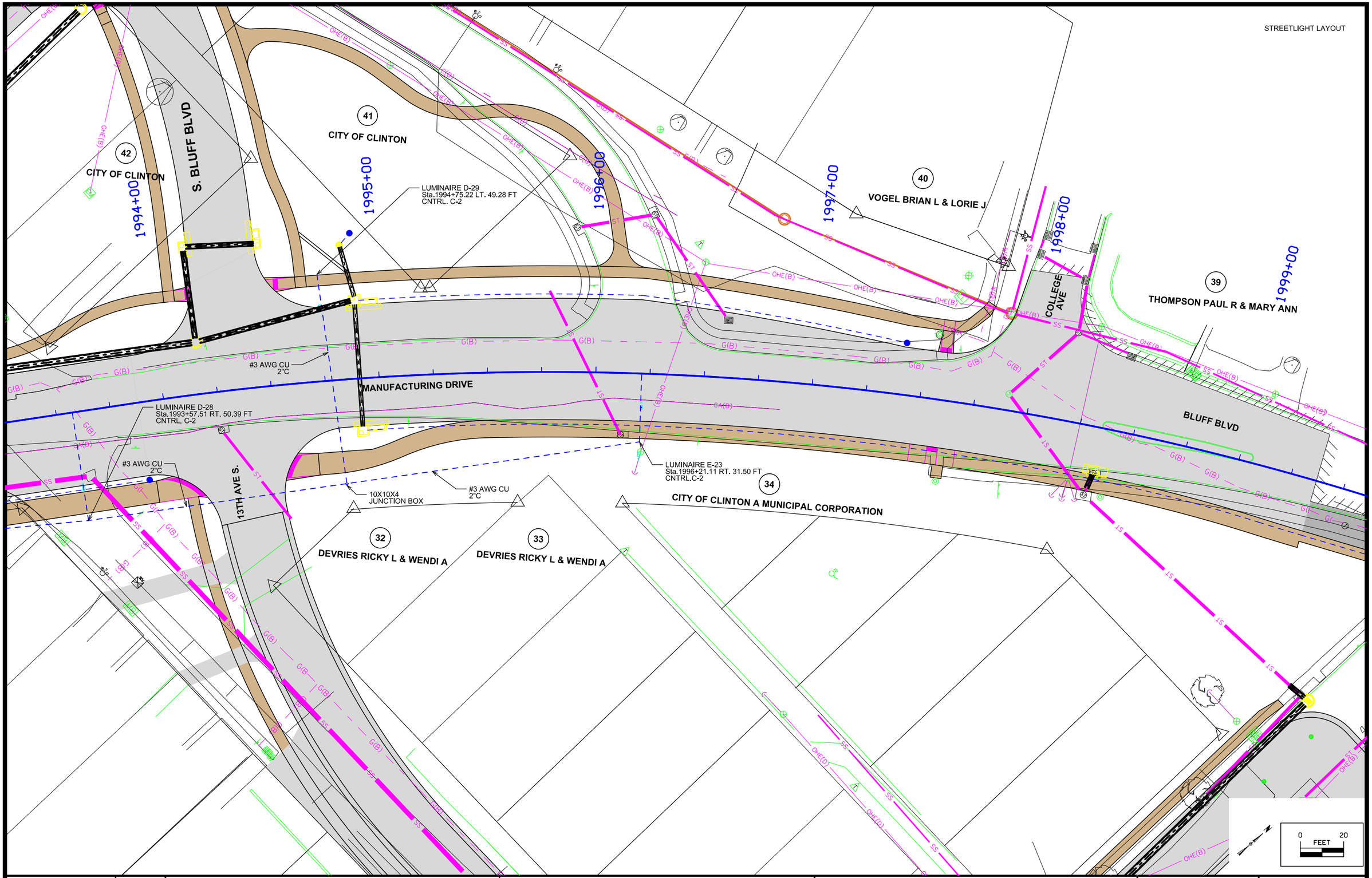
11:40:25 AM 7/6/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_P12.dgn



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER P.13	REVISED

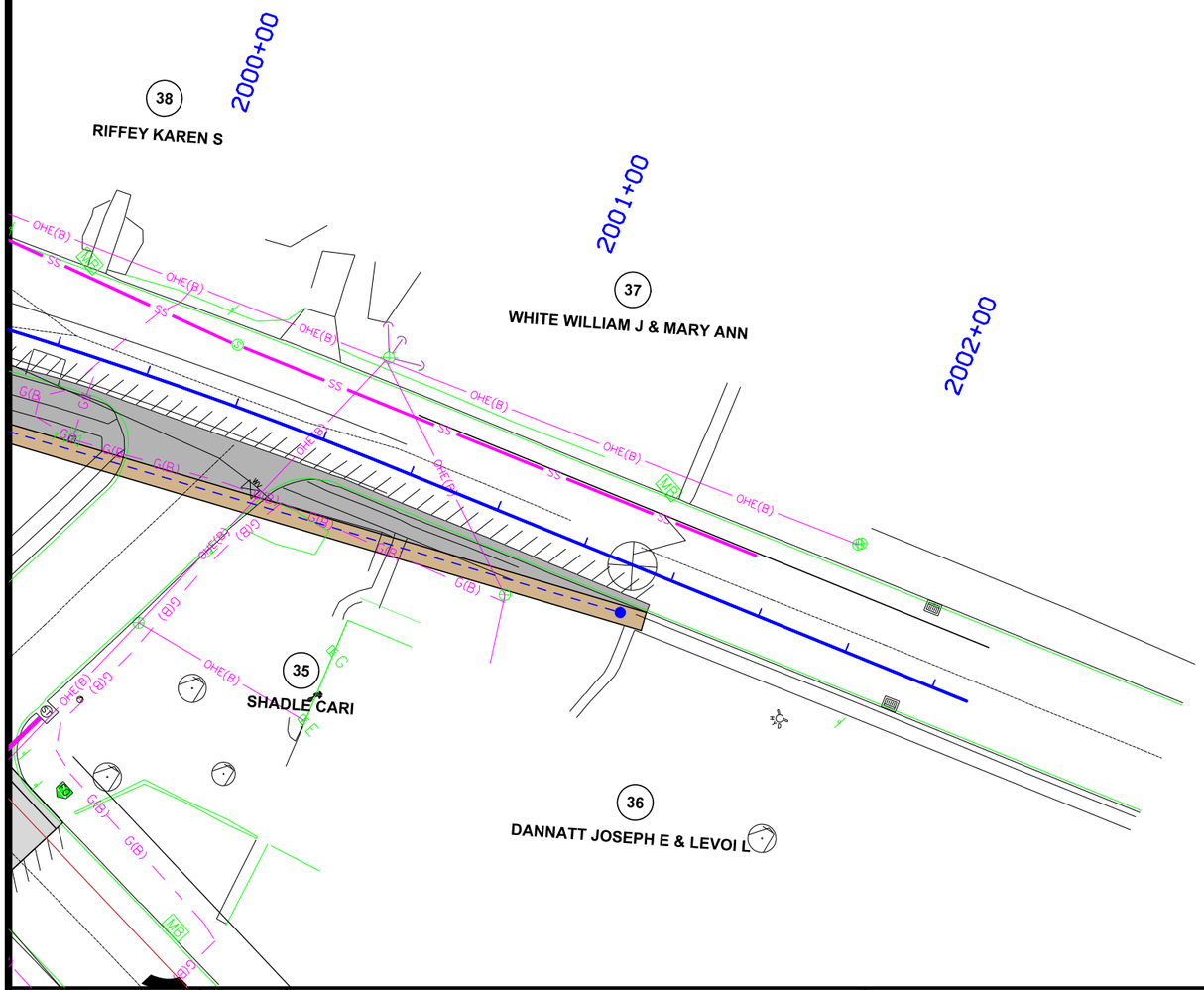
11:40:27 AM 7/6/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_P13.dgn

STREETLIGHT LAYOUT



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER P.14	REVISED

11:40:29 AM 7/6/2021 sschelich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_P14.dgn



STREETLIGHT LAYOUT

0 20
FEET

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER P.15	REVISED

11:40:31 AM 7/6/2021 sschellich P:\30618011-001\06-Drawings\Civil\Dgns\30618011_P15.dgn

PLAN VIEW COLOR LEGEND OF SOILS SHEETS

LINEWORK	Design Color No.	
Green	(2)	Existing Topographic Features and Labels
Purple (Halo)	(15)	Backslope Drains
Blue	(1)	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
SHADING	**Design Color No.**	
Brown, Light	(236)	Core Out

PROFILE VIEW COLOR LEGEND OF SOILS SHEETS

LINEWORK	Design Color No.	
Blue	(1)	Proposed Alignment, Stationing, and Alignment Annotation
Green	(2)	Existing Ground Line Profile
Green, Med	(227)	Topsoil
Green, Med	(227)	Slope Dressing Only
Orange	(6)	Loam
Brown, Dark	(238)	Class 10
Brown, Med	(237)	Sand
Red	(3)	Unsuitable A
Pink, Dark	(13)	Unsuitable B
Pink	(11)	Unsuitable C
Red	(3)	Shale
Red	(3)	Waste
Gray, Light	(48)	Broken and Weathered Rock
Gray, Med	(80)	Rock
Gray, V.Dark	(128)	Boulders

PATTERN AND SYMBOL LEGEND OF SOILS SHEETS

Date(s) Drilled 11/16/20 - 3/2/21

- Drill
- Water
- Dry
- Sample
- Plugged
- Moisture
- Shelby
- Blow Count
- Dens. Core
- Dig/Core
- Subgrade Preparation
- Sand Blanket
- Soil Remediation Area
- Select Soil
- Select Sand
- Slope Dressing Only
- Broken and Weathered Rock
- Rock
- Sandstone
- Unsuitable A
- Unsuitable B
- Unsuitable C
- Sandy Soil
- Boulders
- Shale

- Reference Point
- Station
- Survey Line
- Section Corner
- Ground Line Intercept
- Saw Cut
- Guardrail
- Clearing & Grubbing Area
- Pavement Removal

RIGHT-OF-WAY LEGEND

- Proposed Right-of-Way
- Existing and Proposed Right-of-Way
- Easement and Existing Right-of-Way
- Borrow
- Easement (Temporary)
- Easement
- Excess
- A/C Access Control

NOTE: Sounding and test boring data shown in the plans were accumulated for designing and estimating purposes. Their appearance on the plans does not constitute a guarantee that conditions other than those indicated will be encountered. Details and notes shown elsewhere shall be used for roadway and structure construction.

SOILS LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES Q)

GEOTECHNICAL DESIGN

LICENSED PROFESSIONAL ENGINEER
Bhooshan A. Karnik
16921
IOWA

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

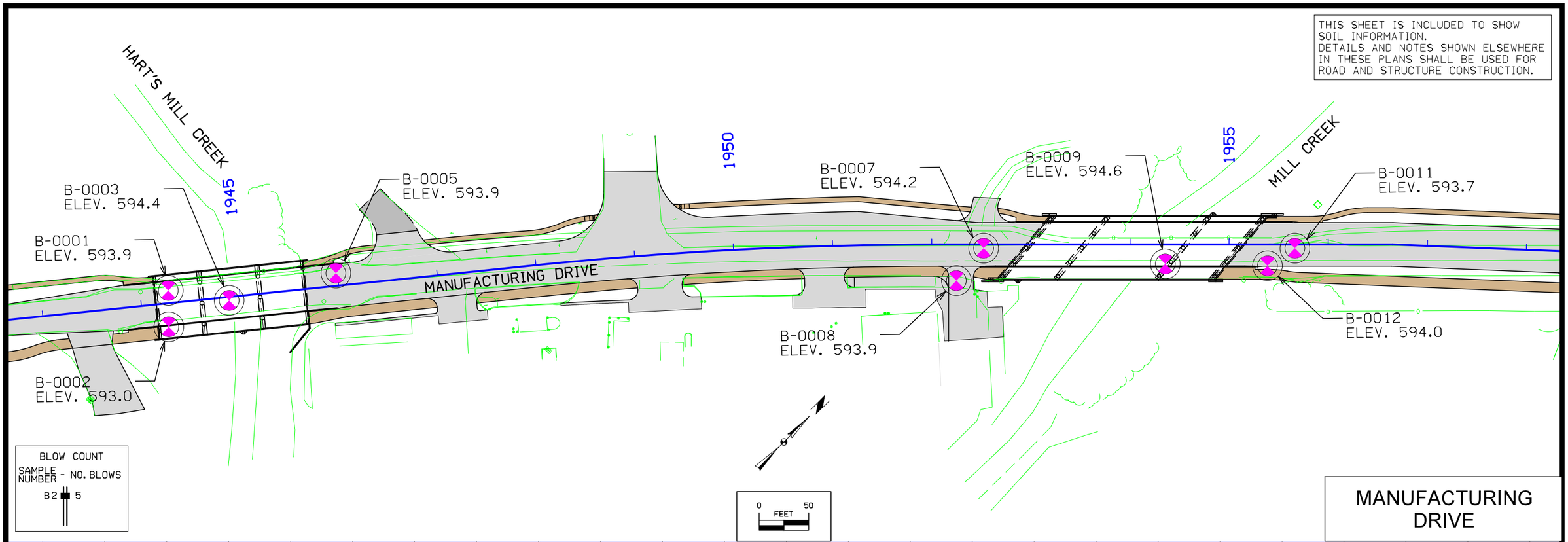
Signature Date

Bhooshan A. Karnik
Printed or Typed Name

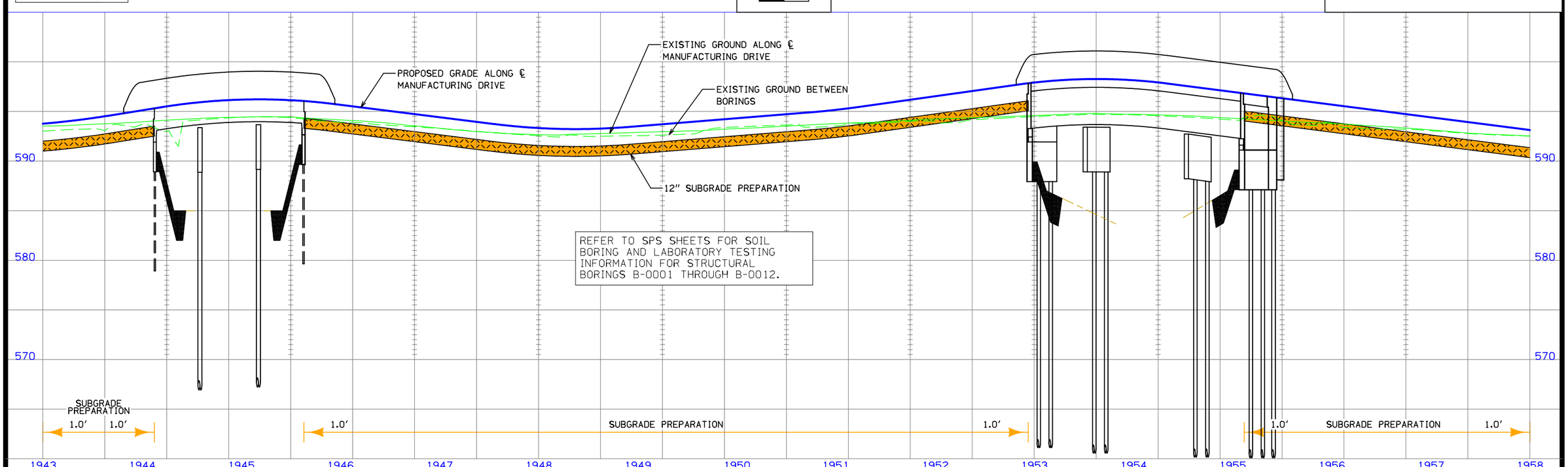
My license renewal date is December 31, 2021

Pages or sheets covered by this seal: Q.1-Q.10, SPS.1-SPS.4

THIS SHEET IS INCLUDED TO SHOW SOIL INFORMATION.
DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR ROAD AND STRUCTURE CONSTRUCTION.



MANUFACTURING DRIVE



REFER TO SPS SHEETS FOR SOIL BORING AND LABORATORY TESTING INFORMATION FOR STRUCTURAL BORINGS B-0001 THROUGH B-0012.

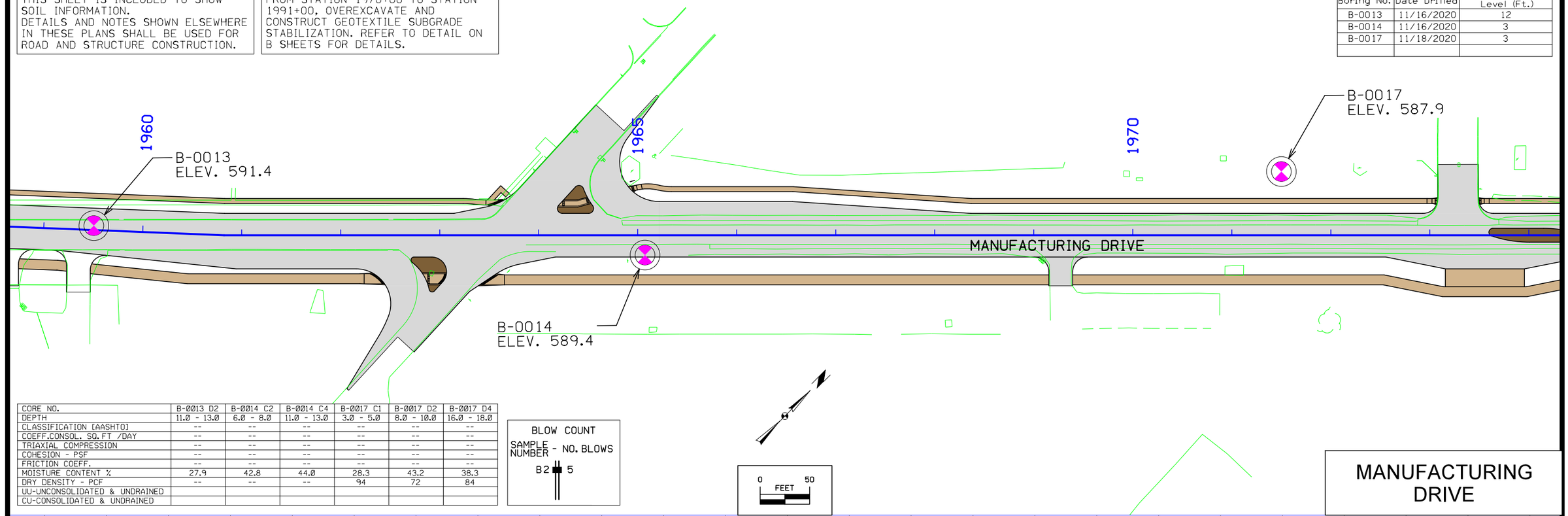
FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER STBG-SWAP-1415(634)--SG-23	SHEET NUMBER Q.2

1:00:11 PM 6/28/2021 jch P:\30618011-001\06-Drawings\Civil\Dgns\30618011_Q02.dgn

THIS SHEET IS INCLUDED TO SHOW SOIL INFORMATION.
DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR ROAD AND STRUCTURE CONSTRUCTION.

FROM STATION 1970+00 TO STATION 1991+00, OVEREXCAVATE AND CONSTRUCT GEOTEXTILE SUBGRADE STABILIZATION. REFER TO DETAIL ON B SHEETS FOR DETAILS.

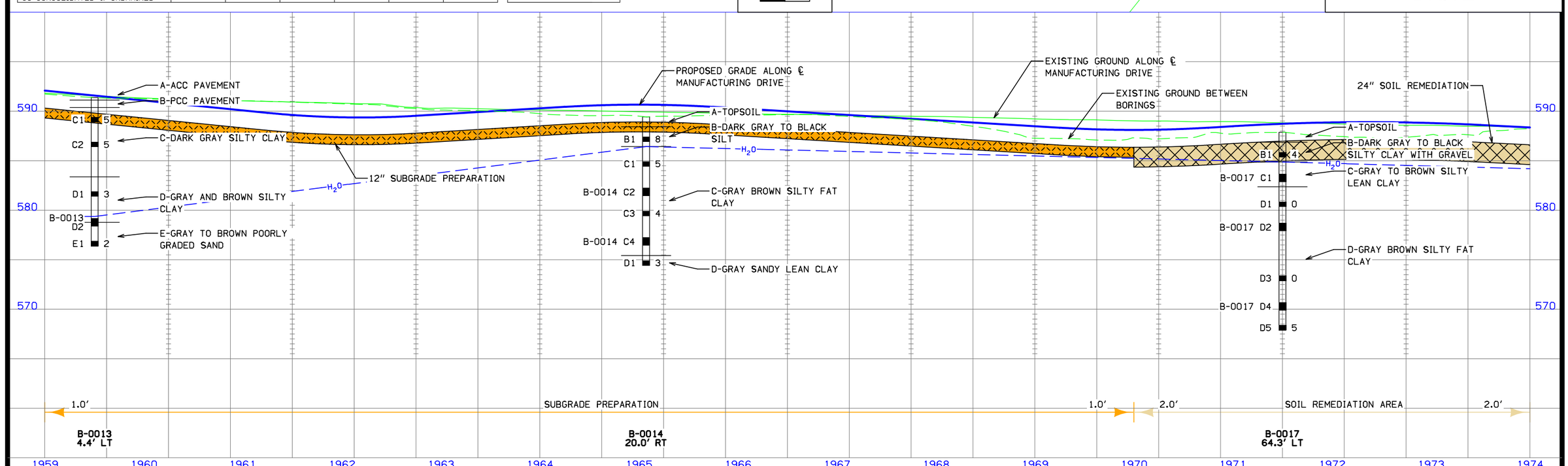
Boring No.	Date Drilled	GroundWater Level (Ft.)
B-0013	11/16/2020	12
B-0014	11/16/2020	3
B-0017	11/18/2020	3



CORE NO.	B-0013 D2	B-0014 C2	B-0014 C4	B-0017 C1	B-0017 D2	B-0017 D4
DEPTH	11.0 - 13.0	6.0 - 8.0	11.0 - 13.0	3.0 - 5.0	8.0 - 10.0	16.0 - 18.0
CLASSIFICATION [AASHTO]	--	--	--	--	--	--
COEFF.CONSOL. SQ.FT /DAY	--	--	--	--	--	--
TRIAXIAL COMPRESSION	--	--	--	--	--	--
COHESION - PSF	--	--	--	--	--	--
FRICTION COEFF.	--	--	--	--	--	--
MOISTURE CONTENT %	27.9	42.8	44.0	28.3	43.2	38.3
DRY DENSITY - PCF	--	--	--	94	72	84
UU-UNCONSOLIDATED & UNDRAINED						
CU-CONSOLIDATED & UNDRAINED						

BLOW COUNT
SAMPLE NUMBER - NO. BLOWS
B2 5

MANUFACTURING DRIVE



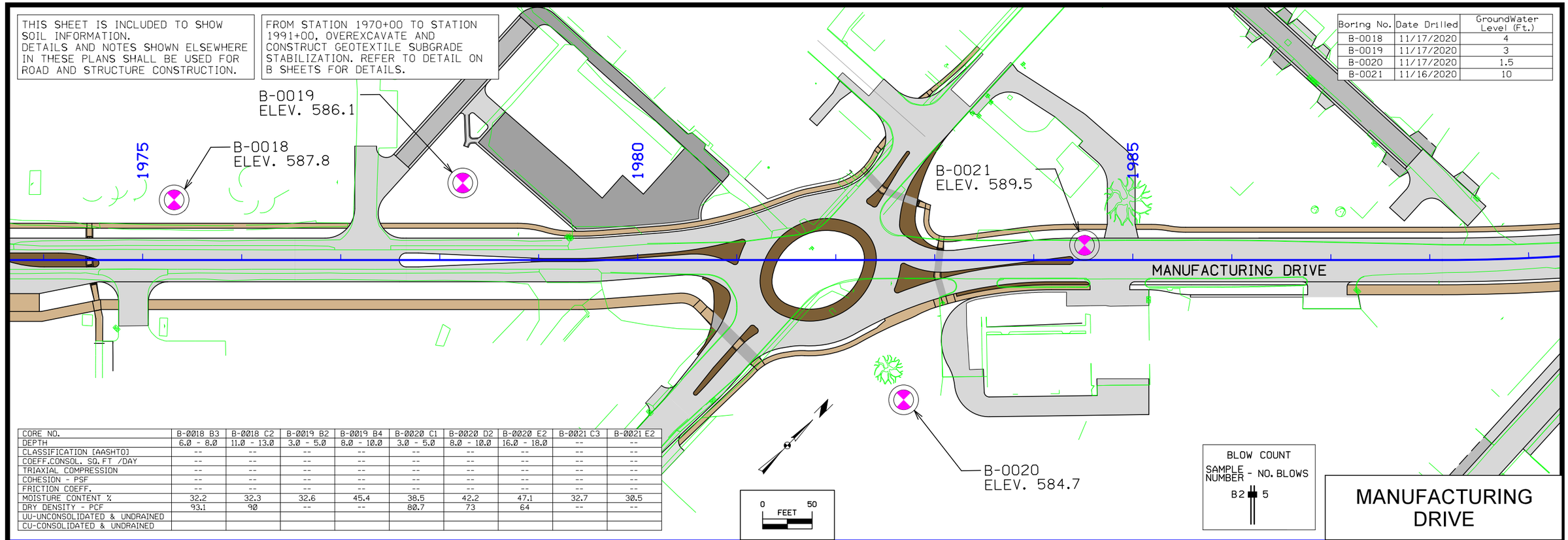
FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER STBG-SWAP-1415(634)--SG-23	SHEET NUMBER Q.3

1:15:32 PM 6/28/2021 jch P:\30618011-001\06-Drawings\Civil\Dgns\30618011_Q03.dgn

THIS SHEET IS INCLUDED TO SHOW SOIL INFORMATION.
DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR ROAD AND STRUCTURE CONSTRUCTION.

FROM STATION 1970+00 TO STATION 1991+00, OVEREXCAVATE AND CONSTRUCT GEOTEXTILE SUBGRADE STABILIZATION. REFER TO DETAIL ON B SHEETS FOR DETAILS.

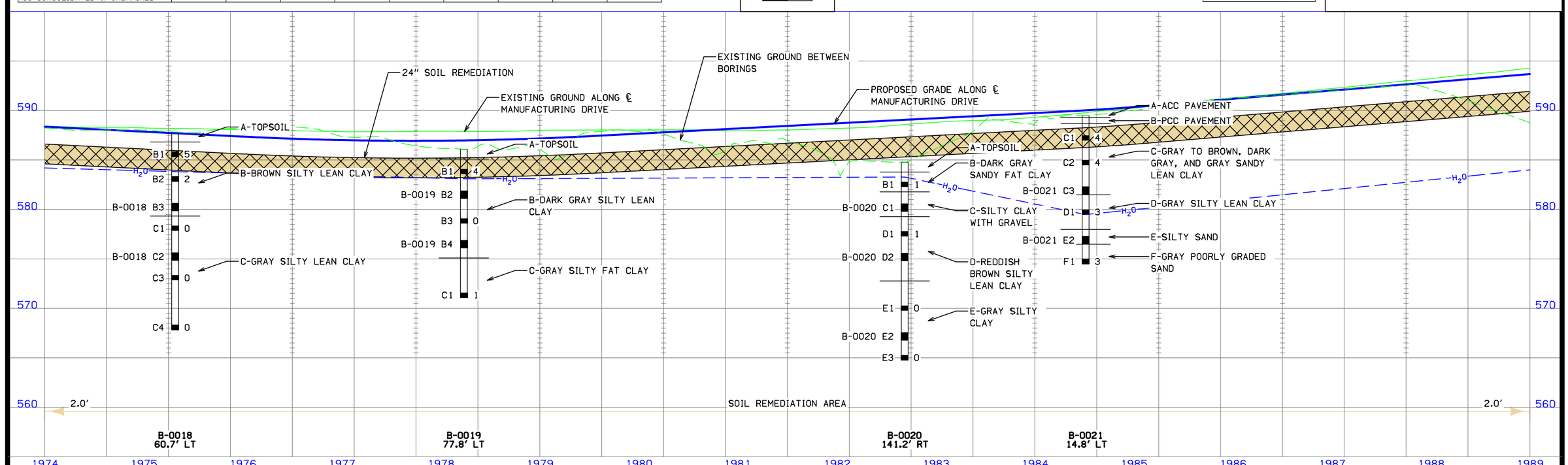
Boring No.	Date Drilled	GroundWater Level (Ft.)
B-0018	11/17/2020	4
B-0019	11/17/2020	3
B-0020	11/17/2020	1.5
B-0021	11/16/2020	10



CORE NO.	B-0018 B3	B-0018 C2	B-0019 B2	B-0019 B4	B-0020 C1	B-0020 D2	B-0020 E2	B-0021 C3	B-0021 E2
DEPTH	6.0 - 8.0	11.0 - 13.0	3.0 - 5.0	8.0 - 10.0	3.0 - 5.0	8.0 - 10.0	16.0 - 18.0	--	--
CLASSIFICATION [AASHTO]	--	--	--	--	--	--	--	--	--
COEFF.CONSOL. SQ.FT /DAY	--	--	--	--	--	--	--	--	--
TRIAXIAL COMPRESSION	--	--	--	--	--	--	--	--	--
COHESION - PSF	--	--	--	--	--	--	--	--	--
FRICTION COEFF.	--	--	--	--	--	--	--	--	--
MOISTURE CONTENT %	32.2	32.3	32.6	45.4	38.5	42.2	47.1	32.7	30.5
DRY DENSITY - PCF	93.1	90	--	--	80.7	73	64	--	--
UU-UNCONSOLIDATED & UNDRAINED									
CU-CONSOLIDATED & UNDRAINED									

BLOW COUNT
SAMPLE NUMBER - NO. BLOWS
B2 5

MANUFACTURING DRIVE



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER STBG-SWAP-1415(634)--SG-23	SHEET NUMBER Q.4

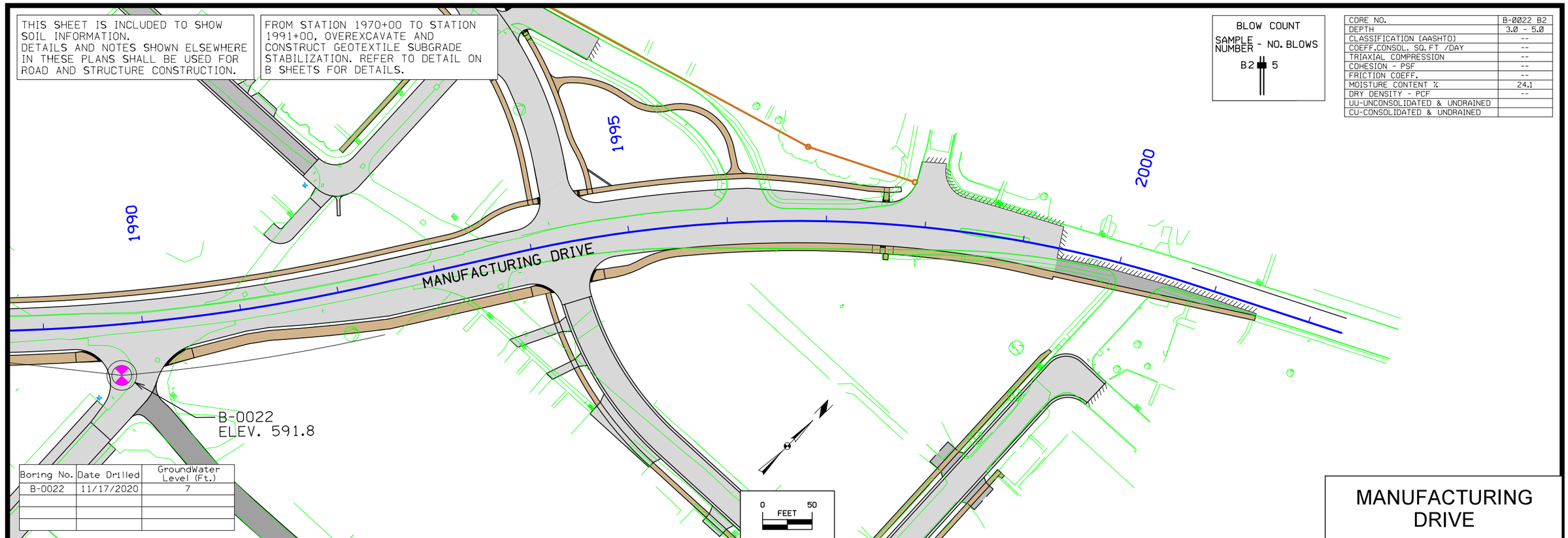
1:26:15 PM 6/28/2021 jch P:\30618011-001\06-Drawings\Civil\Dgns\30618011_Q04.dgn

THIS SHEET IS INCLUDED TO SHOW SOIL INFORMATION.
DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR ROAD AND STRUCTURE CONSTRUCTION.

FROM STATION 1970+00 TO STATION 1991+00, OVEREXCAVATE AND CONSTRUCT GEOTEXTILE SUBGRADE STABILIZATION. REFER TO DETAIL ON B SHEETS FOR DETAILS.

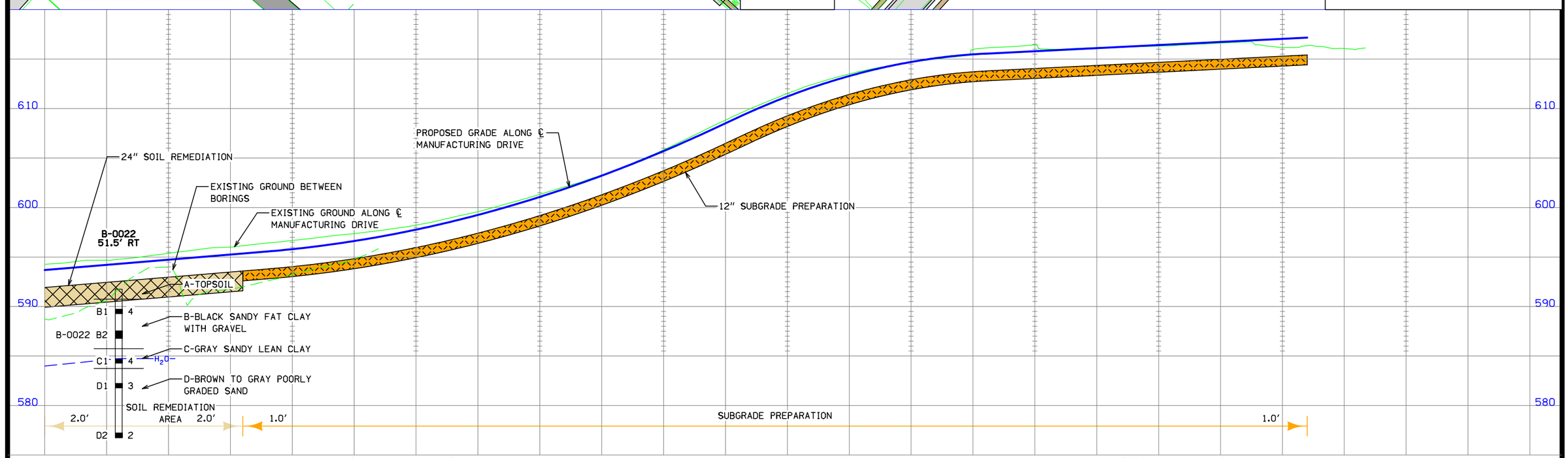
BLOW COUNT
SAMPLE NUMBER - NO. BLOWS
B2 5

CORE NO.	B-0022 B2
DEPTH	3.0 - 5.0
CLASSIFICATION [AASHTO]	--
COEFF.CONSOL. SQ.FT /DAY	--
TRIAXIAL COMPRESSION	--
COHESION - PSF	--
FRICTION COEFF.	--
MOISTURE CONTENT %	24.1
DRY DENSITY - PCF	--
UU-UNCONSOLIDATED & UNDRAINED	
CU-CONSOLIDATED & UNDRAINED	



Boring No.	Date Drilled	GroundWater Level (Ft.)
B-0022	11/17/2020	7

MANUFACTURING DRIVE



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER STBG-SWAP-1415(634)--SG-23	SHEET NUMBER Q.5

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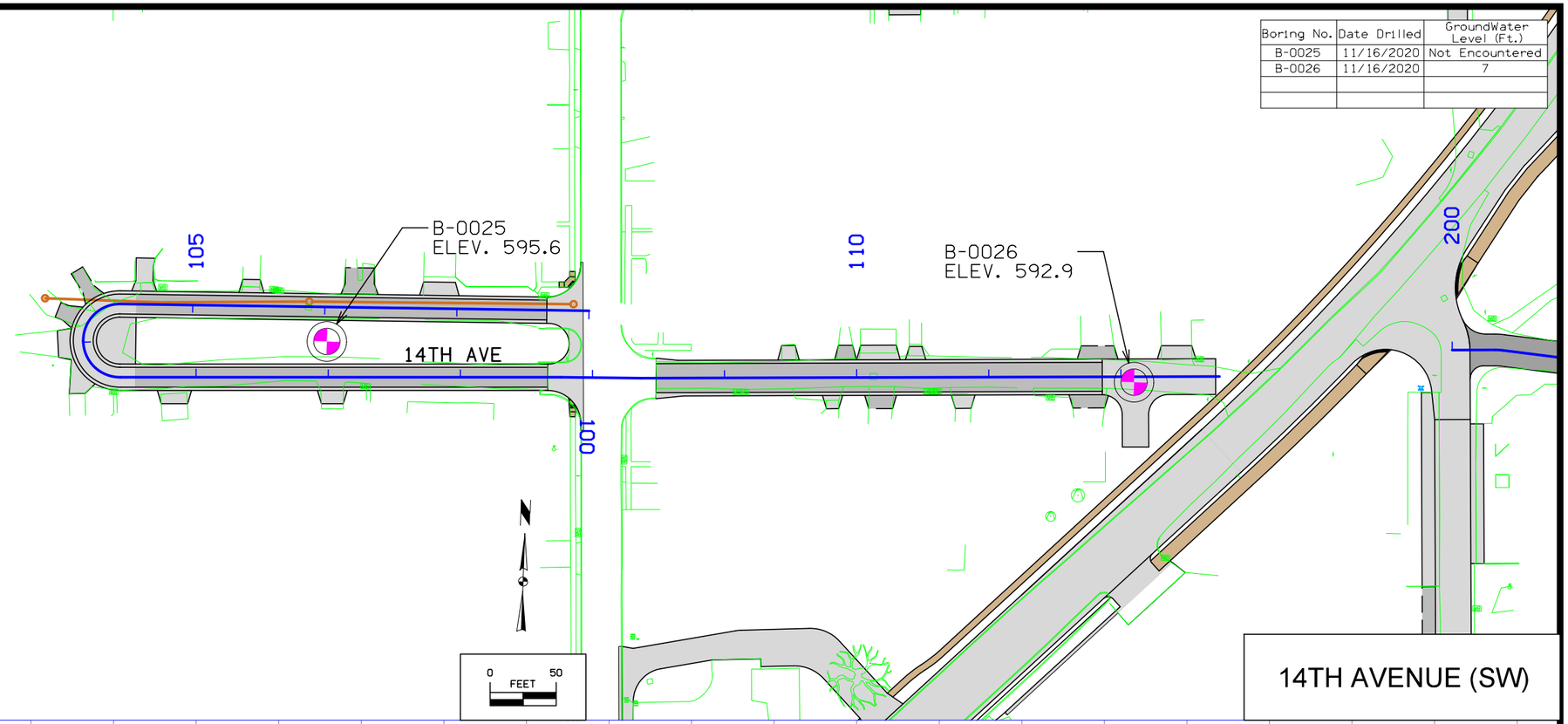
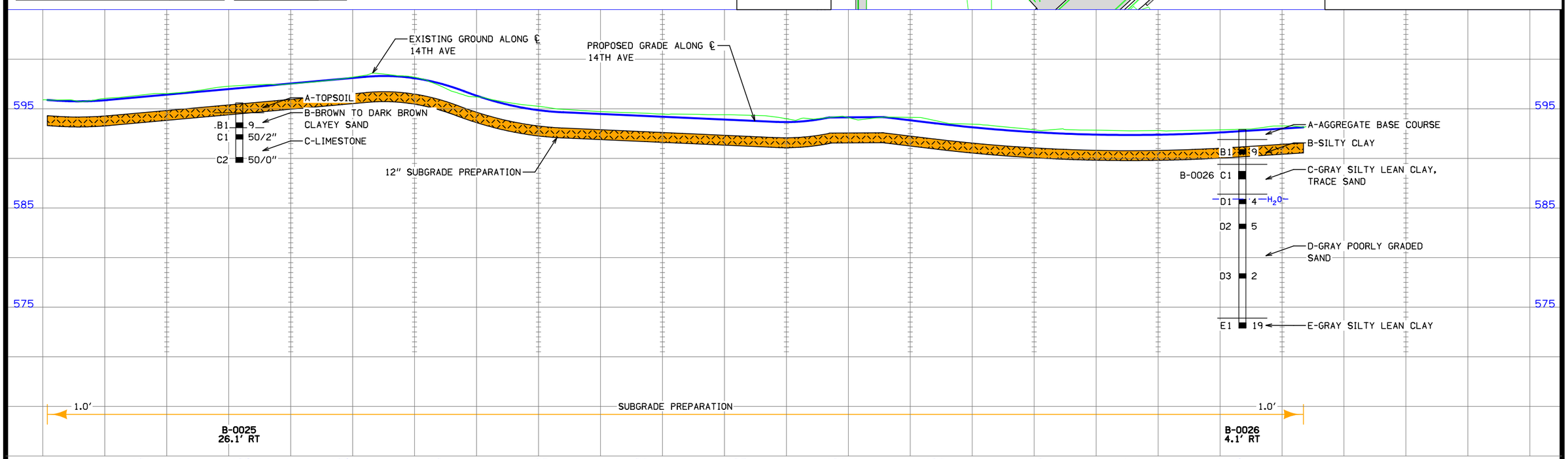
Boring No.	Date Drilled	GroundWater Level (Ft.)
B-0025	11/16/2020	Not Encountered
B-0026	11/16/2020	7



14TH AVENUE (SW)

CORE NO.	B-0026 C1
DEPTH	3.0 - 5.0
CLASSIFICATION [AASHTO]	--
COEFF.CONSOL. SQ.FT /DAY	--
TRIAXIAL COMPRESSION	--
COHESION - PSF	--
FRICTION COEFF.	--
MOISTURE CONTENT %	20.5
DRY DENSITY - PCF	--
UU-UNCONSOLIDATED & UNDRAINED	
CU-CONSOLIDATED & UNDRAINED	

BLOW COUNT
SAMPLE NUMBER - NO. BLOWS
B2 5

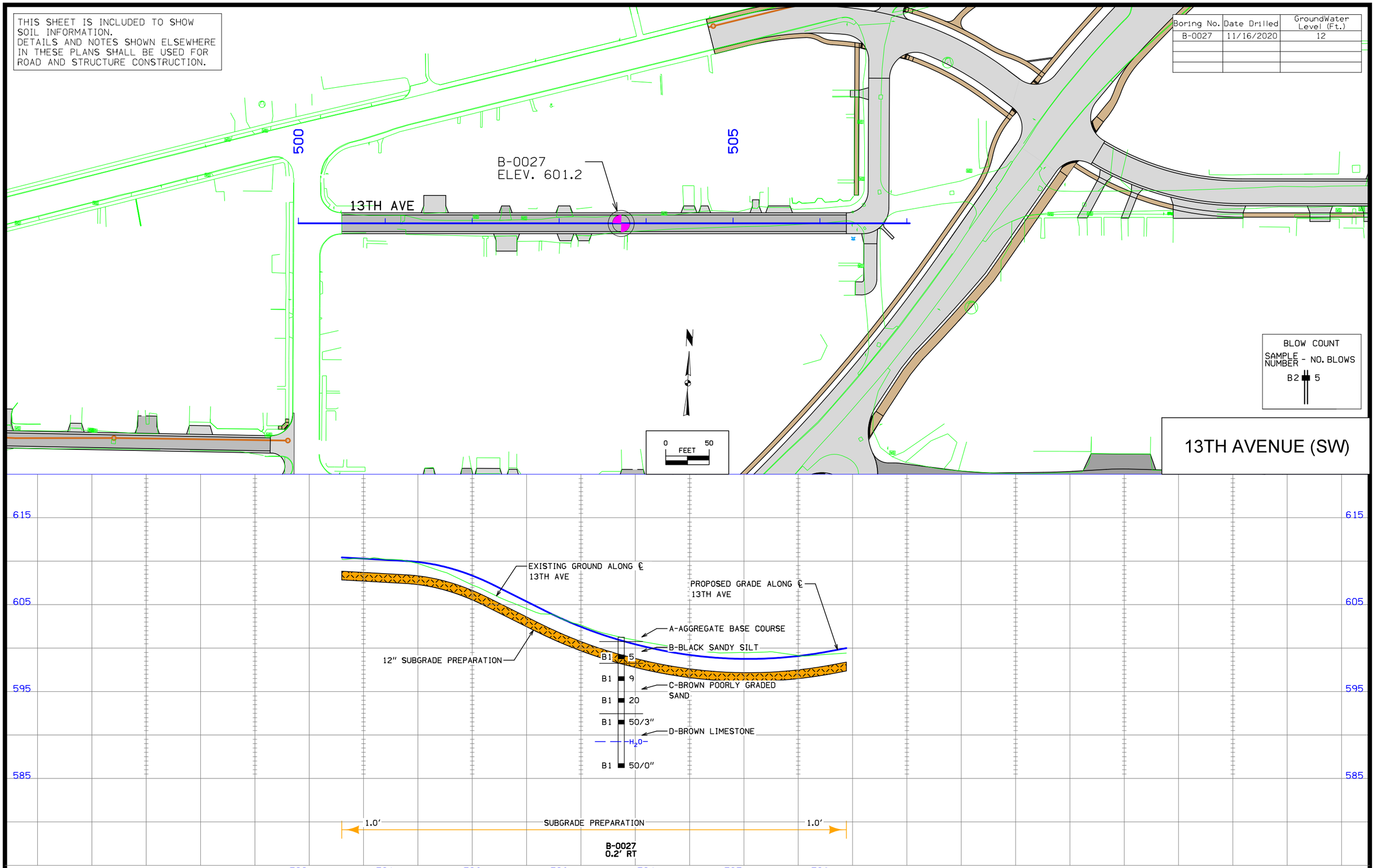


FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER STBG-SWAP-1415(634)--SG-23	SHEET NUMBER Q.6

1:46:39 PM 6/28/2021 jch P:\30618011-001\06-Drawings\Civil\Dgns\30618011_Q06.dgn

THIS SHEET IS INCLUDED TO SHOW SOIL INFORMATION.
DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR ROAD AND STRUCTURE CONSTRUCTION.

Boring No.	Date Drilled	GroundWater Level (Ft.)
B-0027	11/16/2020	12

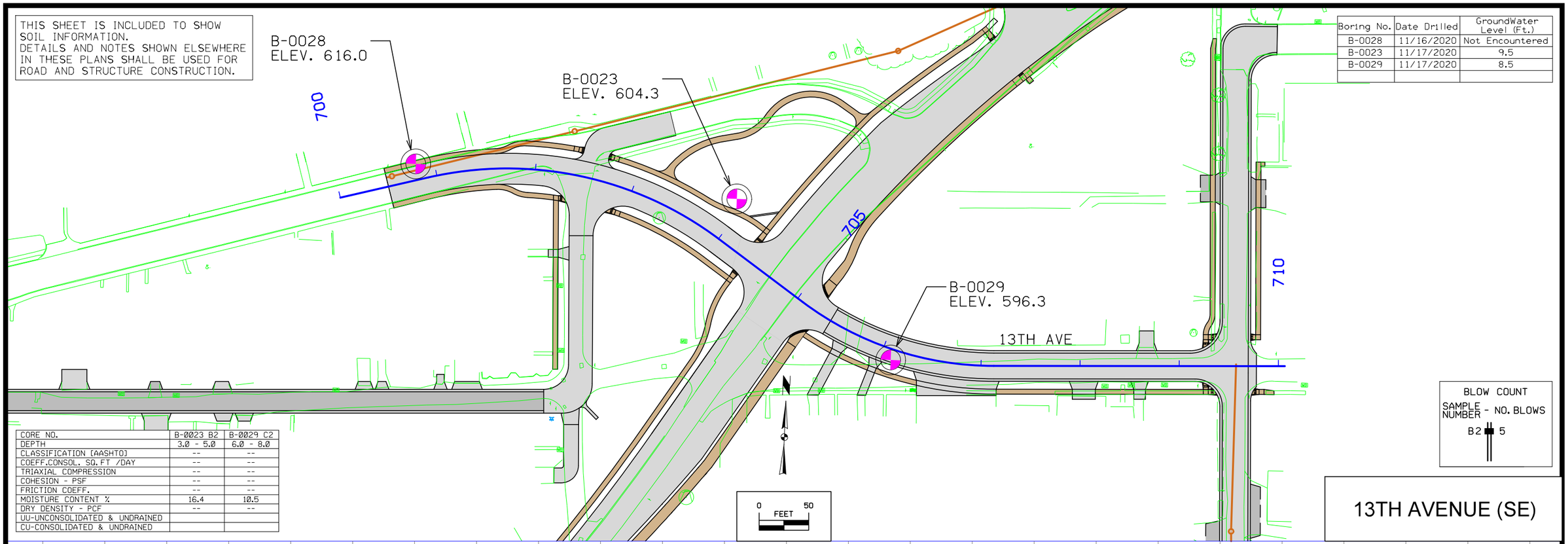


FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER STBG-SWAP-1415(634)--SG-23	SHEET NUMBER Q.7

2:06:12 PM 6/28/2021 jch P:\30618011-001\06-Drawings\Civil\Dgns\30618011_Q07.dgn

THIS SHEET IS INCLUDED TO SHOW SOIL INFORMATION.
DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR ROAD AND STRUCTURE CONSTRUCTION.

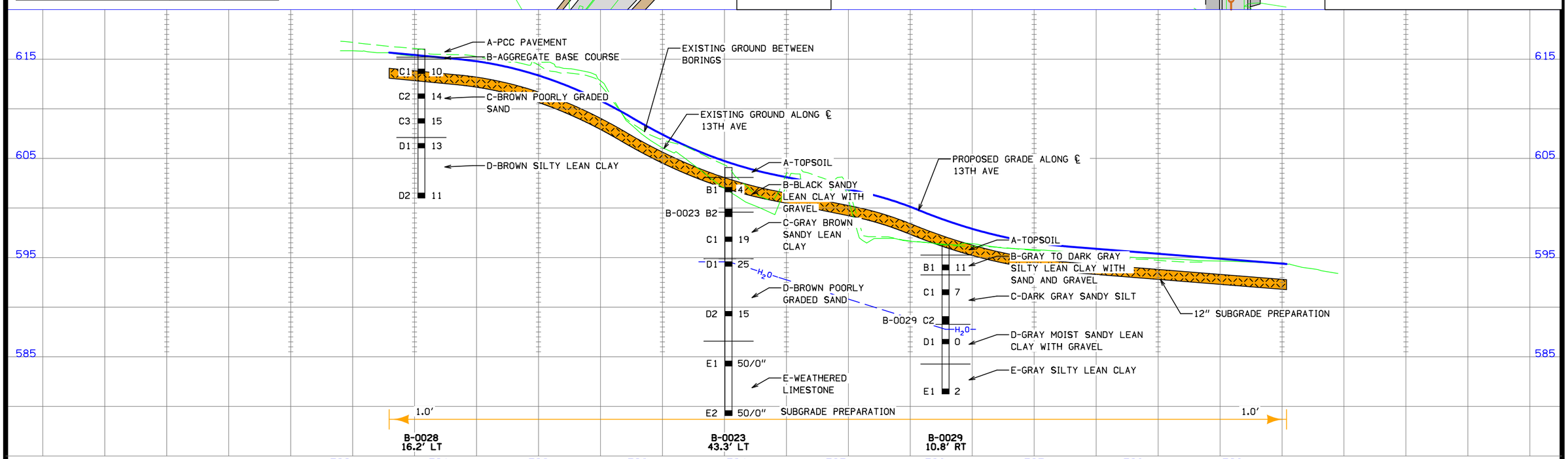
Boring No.	Date Drilled	GroundWater Level (Ft.)
B-0028	11/16/2020	Not Encountered
B-0023	11/17/2020	9.5
B-0029	11/17/2020	8.5



CORE NO.	B-0023 B2	B-0029 C2
DEPTH	3.0 - 5.0	6.0 - 8.0
CLASSIFICATION [AASHTO]	--	--
COEFF.CONSOL. SQ.FT /DAY	--	--
TRIAXIAL COMPRESSION	--	--
COHESION - PSF	--	--
FRICTION COEFF.	--	--
MOISTURE CONTENT %	16.4	10.5
DRY DENSITY - PCF	--	--
UU-UNCONSOLIDATED & UNDRAINED		
CU-CONSOLIDATED & UNDRAINED		

BLOW COUNT
SAMPLE NUMBER - NO. BLOWS
B2 5

13TH AVENUE (SE)

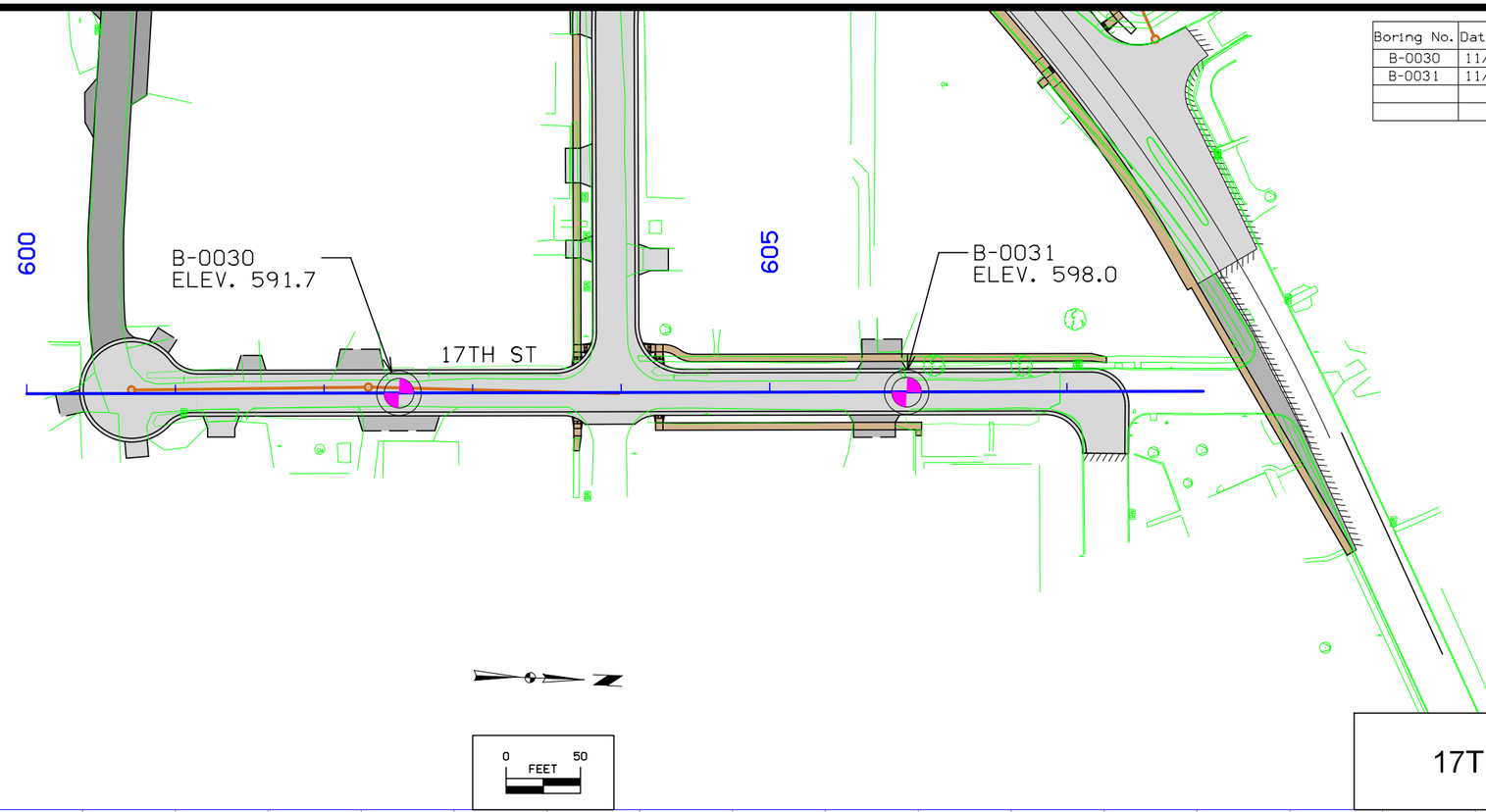


FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER STBG-SWAP-1415(634)--SG-23	SHEET NUMBER Q.8

2:16:41 PM 6/28/2021 jch P:\30618011-001\06-Drawings\Civil\Dgns\30618011_Q08.dgn

THIS SHEET IS INCLUDED TO SHOW SOIL INFORMATION.
DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR ROAD AND STRUCTURE CONSTRUCTION.

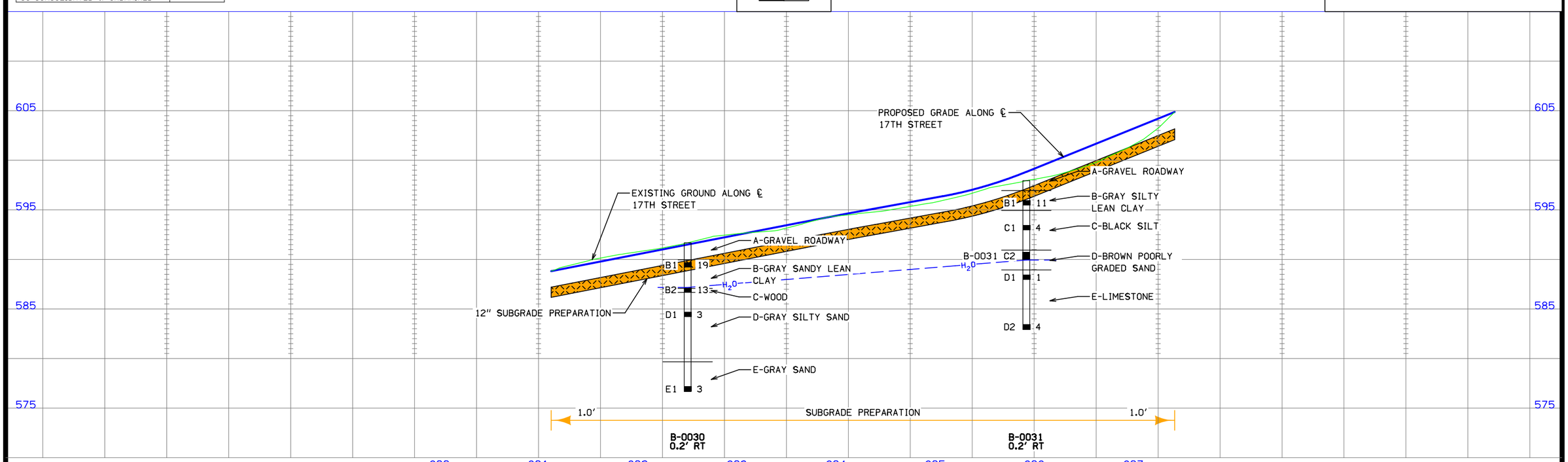
Boring No.	Date Drilled	GroundWater Level (Ft.)
B-0030	11/17/2020	4.5
B-0031	11/17/2020	8



BLOW COUNT
SAMPLE NUMBER - NO. BLOWS
B2 5

17TH STREET

CORE NO.	B-0031 C2
DEPTH	6.0 - 8.0
CLASSIFICATION [AASHTO]	--
COEFF.CONSOL. SQ.FT /DAY	--
TRIAXIAL COMPRESSION	--
COHESION - PSF	--
FRICTION COEFF.	--
MOISTURE CONTENT %	30.7
DRY DENSITY - PCF	--
UU-UNCONSOLIDATED & UNDRAINED	
CU-CONSOLIDATED & UNDRAINED	

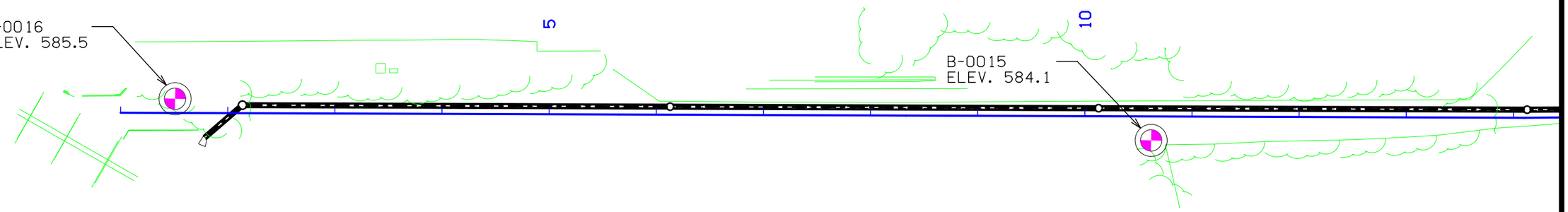


FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER STBG-SWAP-1415(634)--SG-23	SHEET NUMBER Q.9

2:22:27 PM 6/28/2021 jch P:\30618011-001\06-Drawings\Civil\Dgns\30618011_Q09.dgn

THIS SHEET IS INCLUDED TO SHOW SOIL INFORMATION.
DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR ROAD AND STRUCTURE CONSTRUCTION.

Boring No.	Date Drilled	GroundWater Level (Ft.)
B-0015	11/18/2020	2
B-0016	11/18/2020	7

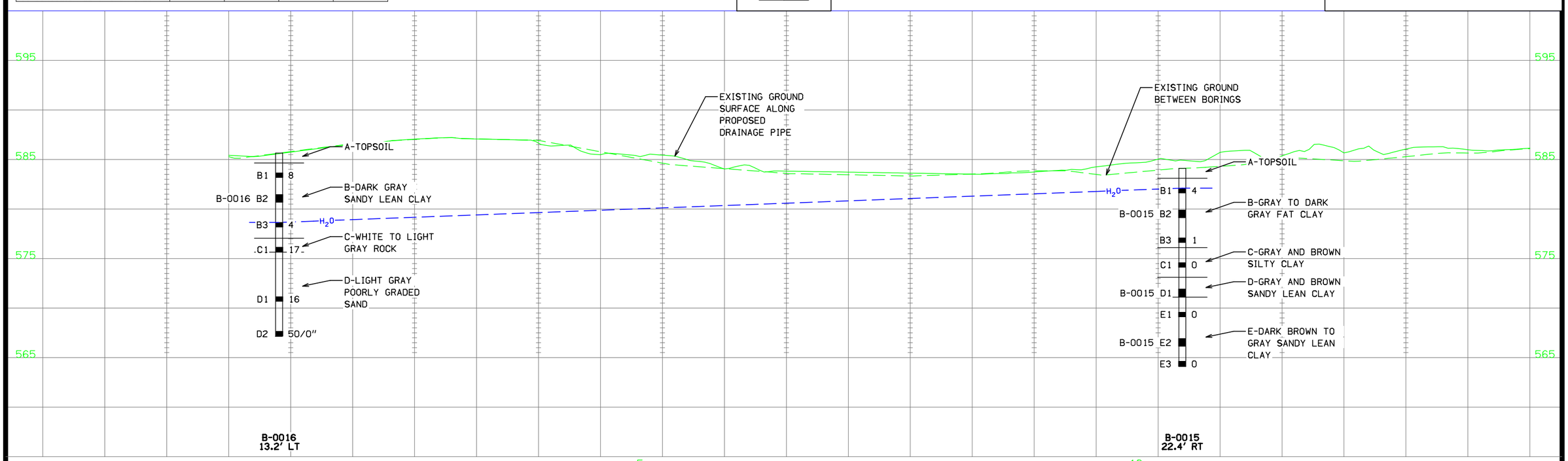


CORE NO.	B-0015 B2	B-0015 D1	B-0015 E2	B-0016 B2
DEPTH	3.0 - 5.0	11.0 - 13.0	16.0 - 18.0	3.0 - 5.0
CLASSIFICATION [AASHTO]	--	--	--	--
COEFF.CONSOL. SQ.FT /DAY	--	--	--	--
TRIAXIAL COMPRESSION	--	--	--	--
COHESION - PSF	--	--	--	--
FRICTION COEFF.	--	--	--	--
MOISTURE CONTENT %	34.2	22.9	43.6	32.1
DRY DENSITY - PCF	89	91	68	91
UU-UNCONSOLIDATED & UNDRAINED				
CU-CONSOLIDATED & UNDRAINED				

BLOW COUNT
SAMPLE NUMBER - NO. BLOWS
B2 5

0 FEET 50

STORM OUTLET



FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER STBG-SWAP-1415(634)--SG-23	SHEET NUMBER Q.10

2:57:21 PM 6/28/2021 jch P:\30618011-001\06-Drawings\Civil\Dgns\30618011_Q10.dgn

POLLUTION PREVENTION PLAN

This project is regulated by the requirements of the Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) General Permit No. 2 OR an Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) individual storm water permit. The Contractor shall carry out the terms and conditions of this permit and the Pollution Prevention Plan (PPP).

This Base PPP includes information on Roles and Responsibilities, Project Site Description, Controls, Maintenance Procedures, Inspection Requirements, Non-Storm Water Controls, Potential Sources of Off Right-of-Way Pollution, and Definitions. This plan references other documents rather than repeating the information contained in the documents. A copy of this Base Pollution Prevention Plan, amended as needed per plan revisions or by contract modification, will be readily available for review.

All contractors shall conduct their operations in a manner that controls pollutants, minimizes erosion, and prevents sediments from entering waters of the state and leaving the highway right-of-way. The prime contractor shall be responsible for compliance and implementation of the PPP for their entire contract. This responsibility shall be further shared with subcontractors whose work is a source of potential pollution as defined in this PPP.

I. ROLES AND RESPONSIBILITES

A. Designer:
1. Prepares Base PPP included in the project plan.
2. Prepares Notice of Intent (NOI) submitted to Iowa DNR.
3. Is signature authority on the Base PPP.

B. Contractor:
1. Signs a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP. All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.
2. Designates a Water Pollution Control Manager (WPCM), who has the duties and responsibilities as defined in Section 2602 of the Standard Specifications.
3. Submits an Erosion Control Implementation Plan (ECIP) and ECIP updates according to Section 2602 of the Standard Specifications.
4. Installs and maintains appropriate controls. This work may be subcontracted.
5. Supervises and implements good housekeeping practices.
6. Conducts joint required inspections of the site with inspection staff. When Contractor is not mobilized on site, Contractor may delegate this responsibility to a trained or certified subcontractor. Contracting Authority also may waive joint inspection requirement during winter shutdown. In both circumstances, WPCM (or trained or certified delegate from the Contractor) is still responsible to review and sign inspection reports.
7. Complies with training and certification requirements of Section 2602 of the Standard Specifications.

C. Subcontractors:
1. Sign a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP if responsible for sediment or erosion controls or involved in land disturbing activities. All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.
2. Implement good housekeeping practices.

D. RCE/Project Engineer:
1. Is Project Storm Water Manager.
2. Takes actions necessary to ensure compliance with storm water requirements including, where appropriate, issuing stop work orders, and directing additional inspections at construction project sites that are experiencing problems with achieving permit compliance.
3. Orders the taking of measures to cease, correct, prevent, or minimize the consequences of non-compliance with the storm water requirements of the Applicable Permit.
4. Supervises all work necessary to meet storm water requirements at the Project, including work performed by contractors and subcontractors.
5. Requires employees, contractors, and subcontractors to take appropriate responsive action to comply with storm water requirements, including requiring any such person to cease or correct a violation of storm water requirements, and to order or recommend such other actions as necessary to meet storm water requirements.
6. Is familiar with the Project PPP and storm water site map.
7. Is the point of contact for the Project for regulatory officials, Inspector, contractors, and subcontractors regarding storm water requirements.
8. Is signature authority on Notice of Discontinuation.

E. Inspector:
1. Updates PPP whenever there is a change in design, construction, operation, or maintenance which has a significant effect on the discharge of pollutants from the project.
2. Maintains an up-to-date record that identifies contractors and subcontractors as co-permittees.
3. Makes these plans available to the DNR upon their request.
4. Conducts joint required inspections of the site with the contractor/subcontractor.
5. Completes an inspection report after each inspection.
6. Is signature authority on storm water inspection reports.

II. PROJECT SITE DESCRIPTION

A. This Pollution Prevention Plan (PPP) is for the reconstruction of Manufacturing Drive.

B. This PPP covers approximately 30 acres with an estimated 25 acres being disturbed. The portion of the PPP covered by this contract has 25 acres disturbed.

C. The PPP is located in an area of 2 soil associations (Colo-Cheguest-Titus and Downs-Fayette-Nordness). The estimated weighted average runoff coefficient number for this PPP after completion will be 0.58.

D. Storm Water Site Map - Multiple sources of information comprise the base storm water site map including:
1. Drainage Patterns – Plan and Profile sheets and Situation plans.
2. Proposed Slopes – Cross Sections.
3. Areas of Soil Disturbance – Construction limits shown on Plan and Profile sheets.
4. Location of Structural Controls – Tabulations in C sheets.
5. Locations of Non-structural Controls – Tabulations in C sheets.
6. Locations of Stabilization Practices – Generally within construction limits shown on Plan and Profile sheets.
7. Surface Waters (including wetlands) – Project Location Map and Plan and Profile sheets.
8. Locations where Storm Water is Discharged – Plan and Profile sheets.

E. The base storm water site map is amended by contract modifications and progress payments (fieldbook entries) of completed erosion control work. Also, due to project phasing, erosion and sediment controls shown on project plans may not be installed until needed, based on site conditions. For example, silt fence ditch checks will typically not be installed until the ditch has been installed. Installed locations may also be modified from tabulation locations by field staff. Installed locations will be documented by fieldbook entries.

F. Runoff from this work will flow into Mill Creek and the Mississippi River.

III. CONTROLS

A. The Contractor’s ECIP specified in Article 2602.03 of the Standard Specifications for accomplishment of storm water controls should clearly describe the intended sequence of major activities, and for each activity define the control measure and the timing during the construction process that the measure will be implemented.

B. Preserve vegetation in areas not needed for construction.

C. Sections 2601 and 2602 of the Standard Specifications define requirements to implement erosion and sediment control measures. Actual quantities used and installed locations may vary from the Base PPP and amendment of the plan will be documented via fieldbook entries or by contract modification. Additional erosion and sediment control items may be required as determined by the inspector and/or contractor during storm water monitoring inspections. If the work involved is not applicable to any contract items, the work will be paid for according to Article 1109.03 paragraph B of the Standard Specifications.

1. EROSION AND SEDIMENT CONTROLS

a. Stabilization Practices
1) Site plans will ensure that existing vegetation or natural buffers are preserved where attainable and disturbed portions of the site will be stabilized.
2) Initialize stabilization of disturbed areas immediately after clearing, grading, excavating, or other earth disturbing activities have:
a) Permanently ceased on any portion of the site, or
b) Temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days.
3) Staged permanent and/or temporary stabilizing seeding and mulching shall be completed as the disturbed areas are completed. Incomplete areas shall be stabilized according to paragraph III, C, 1, a, 2, b above.
4) Permanent and Temporary Stabilization practices to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation (105-4) in the C sheets.
5) Preservation of existing vegetation within right-of-way or easements will act as vegetative buffer strips.
6) Preservation of topsoil: Bid items to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets. Additional information may be found in Tabulations in the C or T sheets or is referenced in Section 2105 of Standard Specifications.

b. Structural Practices
1) Structural practices will be implemented to divert flows from exposed soils and detain or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Additionally, structural practices may include: silt basins that provide 3600 cubic feet of storage per acre drained or equivalent sediment controls, outlet structures that withdraw water from surface when discharging basins, and controls to direct storm water to vegetated areas.
2) Structural practices to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets, as well as all other item specific Tabulations. Typical drawings detailing construction of the devices to be used on this project can be found in the B sheets or are referenced in the Standard Road Plans Tabulation (105-4) located in the C sheets.

c. Storm Water Management
1) Measures shall be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. This may include velocity dissipation devices at discharge locations and along length of outfall channel as necessary to provide a non-erosion velocity flow from structure to water course. If included with this project, these items are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets, as well as all other item specific Tabulations. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation (105-4) in the C sheets. The installation of these devices may be subject to Section 404 of the Clean Water Act.

2. OTHER CONTROLS

a. Contractor disposal of unused construction materials and construction material wastes shall comply with applicable state and local waste disposal, sanitary sewer, or septic system regulations. In the event of a conflict with other governmental laws, rules and regulations, the more restrictive applicable laws, rules or regulations shall apply.
1) Vehicle Entrances and Exits - Construct and maintain entrances and exits to prevent tracking of sediments onto roadways.
2) Material Delivery, Storage and Use - Implement practices to prevent discharge of construction materials during delivery, storage, and use.
3) Stockpile Management - Install controls to reduce or eliminate pollution of storm water from stockpiles of soil and paving.
4) Waste Disposal - Do not discharge any materials, including building materials, into waters of the state, except as authorized by a Section 404 permit.
5) Spill Prevention and Control - Implement chemical spill and leak prevention and response procedures to contain and clean-up spills and prevent material discharges to the storm drain system and waters of the state.
6) Concrete Residuals and Washout Wastes - Waste shall not be discharged to a surface water and is not allowed to adversely affect a water of the state. Designate temporary concrete washout facilities for rinsing out concrete trucks. Provide directions to truck drivers where designated washout facilities are located. Designated washout areas should be located at least 50 feet away from storm drains, streams or other water bodies. Care should be taken to ensure these facilities do not overflow during storm events.
7) Concrete Grooving/Grinding Slurry – Do not discharge slurry to a waterbody or storm drain. Slurry may be applied on foreslopes or removed from the project.
8) Vehicle and Equipment Storage and Maintenance Areas - Perform on site fueling and maintenance in accordance with all environment laws such as proper storage of onsite fuels and proper disposal of used engine oil or other fluids on site. Employ washing practices that prevent contamination of surface and ground water from wash water. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge.
9) Litter Management - Ensure employees properly dispose of litter. Minimize exposure of trash if exposure to precipitation or storm water would result in a discharge of pollutants.
10) Dewatering – Properly treat water to remove suspended sediment before it re-enters a waterbody or discharges off-site. Measures are also to be taken to prevent scour erosion at dewatering discharge point.

3. APPROVED STATE OR LOCAL PLANS

During the course of this construction, it is possible that situations will arise where unknown materials will be encountered. When such situations are encountered, they will be handled according to all federal, state, and local regulations in effect at the time.

IV. MAINTENANCE PROCEDURES

The Contractor is required to maintain all temporary erosion and sediment control measures in proper working order, including cleaning, repairing, or replacing them throughout the contract period. This shall begin when the features have lost 50% of their

POLLUTION PREVENTION PLAN

capacity.

V. INSPECTION REQUIREMENTS

A. Inspections shall be made jointly by the Contractor and the Contracting Authority at least once every seven calendar days. Storm water monitoring inspections will include:
   1. Date of the inspection.
   2. Summary of the scope of the inspection.
   3. Name and qualifications of the personnel making the inspection.
   5. Review of erosion and sediment control measures within disturbed areas for the effectiveness in preventing impacts to receiving waters.
   6. Major observations related to the implementation of the PPP.
   7. Identification of corrective actions required to maintain or modify erosion and sediment control measures.

B. Include storm water monitoring inspection reports in the Amended PPP. Incorporate any additional erosion and sediment control measures determined as a result of the inspection. Immediately begin corrective actions on all deficiencies found within 3 calendar days of the inspection and complete within 7 calendar days following the inspection. If it is determined that making the corrections less than 72 hours after the inspection is impracticable, it should be documented why it is impracticable and indicate an estimated date by which the corrections will be made.

VI. NON-STORM WATER DISCHARGES

This includes subsurface drains (i.e. longitudinal and standard subdrains) and slope drains. The velocity of the discharge from these features may be controlled by the use of headwalls or blocks, Class A stone, erosion stone or other appropriate materials. This also includes uncontaminated groundwater from dewatering operations, which will be controlled as discussed in Section III of the PPP.

VII. POTENTIAL SOURCES OF OFF RIGHT-OF-WAY (ROW) POLLUTION

Silts, sediment, and other forms of pollution may be transported onto highway right-of-way (ROW) as a result of a storm event. Potential sources of pollution located outside highway ROW are beyond the control of this PPP. Pollution within highway ROW will be conveyed and controlled per this PPP.

VIII. DEFINITIONS

A. Base PPP - Initial Pollution Prevention Plan.
B. Amended PPP - May include Plan Revisions or Contract Modifications for new items, storm water monitoring inspection reports, and fieldbook entries made by the inspector.
C. IDR - Inspector’s Daily Report – this contains the inspector’s daily diary and bid item postings.
D. Controls - Methods, practices, or measures to minimize or prevent erosion, control sedimentation, control storm water, or minimize contaminants from other types of waste or materials. Also called Best Management Practices (BMPs).
E. Signature Authority - Representative authorized to sign various storm water documents.

CERTIFICATION STATEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature

Printed or Typed Name

Signature

Printed or Typed Name

PERIMETER, SLOPE AND DITCH CHECK SEDIMENT CONTROL DEVICES

Possible Standards: EC-204

Location			Perimeter and Slope			Ditch Check		Remarks
			Length of Installation			Length of Installation		
Begin Station	End Station	Side	9 inch Dia	12 inch Dia	20 inch Dia	12 inch Dia	20 inch Dia	
			LF	LF	LF	LF	LF	
MANUFACTURING DR.								
1913+35.00	1918+70.00	RT		535				PERIMETER CONTROL ALONG CURB
1920+75.00	1926+35.00	RT		560				PERIMETER CONTROL ALONG CURB
1927+40.00	1935+70.00	RT		830				PERIMETER CONTROL ALONG CURB
1937+00.00	1942+30.00	RT		565				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
1940+45.00	1942+30.00	RT		185				PERIMETER CONTROL ALONG CURB
1940+45.00	1942+30.00	LT		185				PERIMETER CONTROL ALONG CURB
1940+45.00	1942+30.00	LT		185				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
1942+50.00	1943+25.00	RT		75				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
1942+50.00	1943+25.00	RT		75				PERIMETER CONTROL ALONG CURB
1942+50.00	1943+85.00	LT		135				PERIMETER CONTROL ALONG CURB
1942+50.00	1944+10.00	LT		160				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
1942+85.00		RT		30				INLET PERIMETER PROTECTION
1942+85.00		LT		30				INLET PERIMETER PROTECTION
1945+70.00	1946+30.00	LT		60				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
1946+50.00	1948+75.00	LT		225				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
1946+95.00	1948+60.00	LT		165				PERIMETER CONTROL ALONG CURB
1948+25.00		LT		30				INLET PERIMETER PROTECTION
1948+30.00		LT		30				INLET PERIMETER PROTECTION
1948+30.00		RT		30				INLET PERIMETER PROTECTION
1949+30.00	1953+35.00	LT		405				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
1949+60.00		LT		30				INLET PERIMETER PROTECTION
1949+60.00		LT		30				INLET PERIMETER PROTECTION
1949+70.00	1952+30.00	LT		260				PERIMETER CONTROL ALONG CURB
1949+80.00		RT		30				INLET PERIMETER PROTECTION
1952+15.00		RT		30				INLET PERIMETER PROTECTION
1953+00.00		RT		30				INLET PERIMETER PROTECTION
1955+25.00	1958+45.00	RT		320				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
1955+25.00	1958+45.00	RT		320				PERIMETER CONTROL ALONG CURB
1955+65.00	1960+45.00	LT		480				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
1955+85.00		RT		30				INLET PERIMETER PROTECTION
1955+95.00	1963+45.00	LT		750				PERIMETER CONTROL ALONG CURB
1958+25.00		RT		30				INLET PERIMETER PROTECTION
1958+25.00		LT		30				INLET PERIMETER PROTECTION
1959+55.00	1962+15.00	RT		260				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
1959+75.00	1960+95.00	RT		120				PERIMETER CONTROL ALONG CURB
1962+20.00		RT		30				INLET PERIMETER PROTECTION
1962+20.00		LT		30				INLET PERIMETER PROTECTION
1963+60.00	1969+00.00	RT		540				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
1963+60.00	1969+00.00	RT		540				PERIMETER CONTROL ALONG CURB
1965+00.00	1968+50.00	LT		350				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
1965+00.00	1973+05.00	LT		805				PERIMETER CONTROL ALONG CURB
1969+50.00	1974+50.00	RT		500				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
1969+50.00	1973+15.00	RT		365				PERIMETER CONTROL ALONG CURB
1973+95.00	1974+45.00	RT		50				PERIMETER CONTROL ALONG CURB
1970+00.00		RT		30				INLET PERIMETER PROTECTION
1970+00.00		LT		30				INLET PERIMETER PROTECTION
1972+10.00		LT		30				INLET PERIMETER PROTECTION
1972+20.00		RT		30				INLET PERIMETER PROTECTION
1972+90.00		LT		30				INLET PERIMETER PROTECTION
1973+10.00		LT		30				INLET PERIMETER PROTECTION
1973+50.00		LT		30				INLET PERIMETER PROTECTION
1973+50.00	1977+05.00	LT		355				PERIMETER CONTROL ALONG CURB
1974+35.00		RT		30				INLET PERIMETER PROTECTION
1974+35.00		LT		30				INLET PERIMETER PROTECTION
1974+50.00		LT		30				INLET PERIMETER PROTECTION
1975+20.00	1980+70.00	RT		550				PERIMETER CONTROL ALONG CURB
1977+45.00	1979+20.00	LT		175				PERIMETER CONTROL ALONG CURB
1977+70.00		RT		30				INLET PERIMETER PROTECTION
1977+70.00		LT		30				INLET PERIMETER PROTECTION
1977+70.00		LT		30				INLET PERIMETER PROTECTION
1979+80.00	1980+65.00	RT		85				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
1980+80.00	1982+10.00	LT		245				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
1980+90.00	1983+25.00	RT		275				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
1980+90.00		LT		30				INLET PERIMETER PROTECTION
1981+10.00		LT		30				INLET PERIMETER PROTECTION
1981+30.00		RT		30				INLET PERIMETER PROTECTION
1982+45.00		LT		30				INLET PERIMETER PROTECTION
1982+75.00		LT		30				INLET PERIMETER PROTECTION
1982+80.00	1984+70.00	LT		220				PERIMETER CONTROL ALONG CURB
1983+10.00		RT		30				INLET PERIMETER PROTECTION
1983+15.00		RT		30				INLET PERIMETER PROTECTION
1983+15.00		LT		30				INLET PERIMETER PROTECTION
1983+65.00		RT		30				INLET PERIMETER PROTECTION
1983+70.00		RT		30				INLET PERIMETER PROTECTION
1985+05.00	1994+15.00	LT		910				PERIMETER CONTROL ALONG CURB
1985+35.00		RT		30				INLET PERIMETER PROTECTION
1985+35.00		RT		30				INLET PERIMETER PROTECTION
1985+35.00		LT		30				INLET PERIMETER PROTECTION
1985+35.00		LT		30				INLET PERIMETER PROTECTION
1987+25.00		RT		30				INLET PERIMETER PROTECTION

PERIMETER, SLOPE AND DITCH CHECK SEDIMENT CONTROL DEVICES

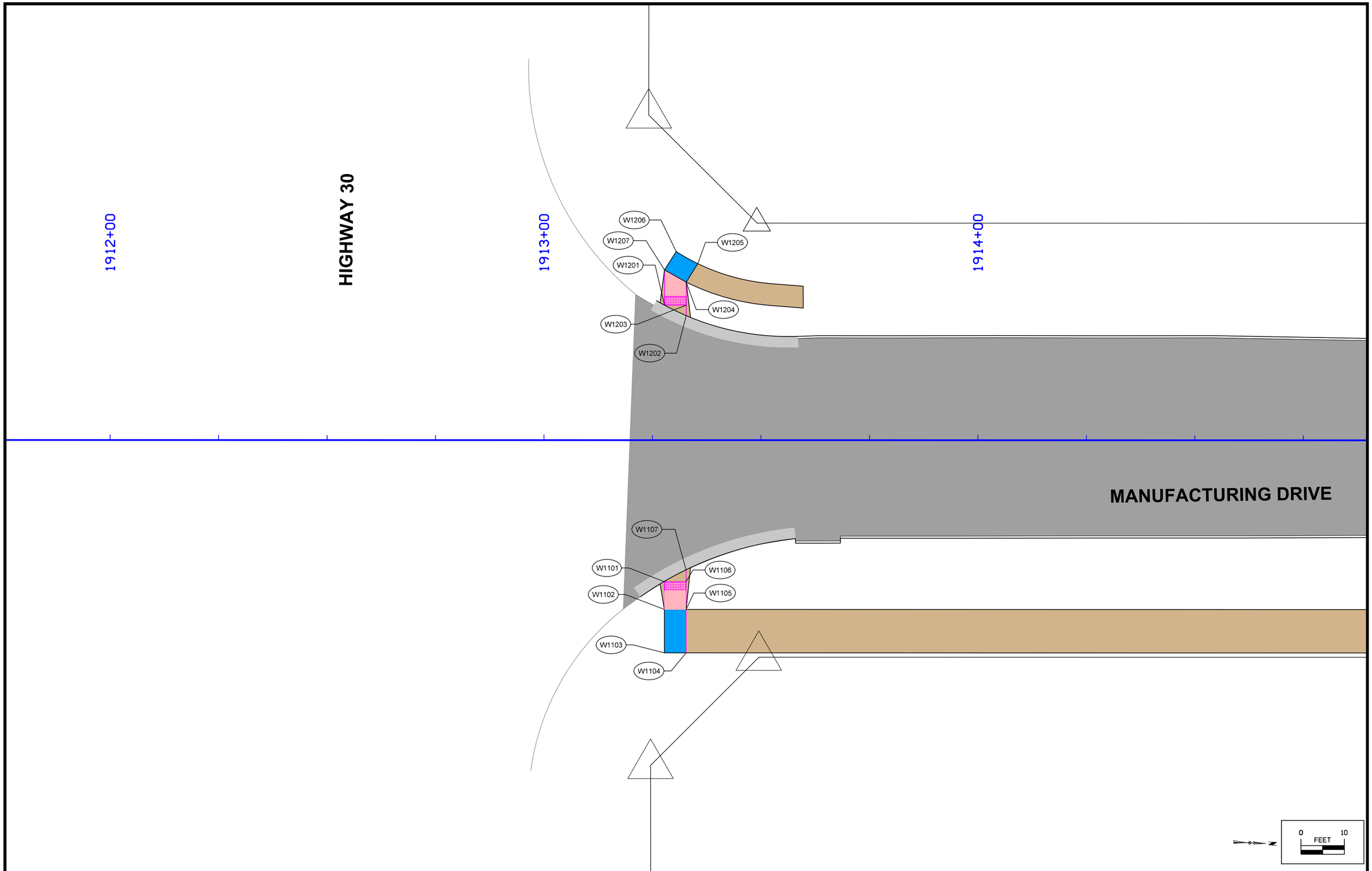
Possible Standards: EC-204

Location			Perimeter and Slope			Ditch Check		Remarks
			Length of Installation			Length of Installation		
Begin Station	End Station	Side	9 inch Dia	12 inch Dia	20 inch Dia	12 inch Dia	20 inch Dia	
			LF	LF	LF	LF	LF	
1987+40.00	1989+55.00	RT		215				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
1987+60.00		LT		30				INLET PERIMETER PROTECTION
1988+40.00		LT		30				INLET PERIMETER PROTECTION
1990+10.00	1992+50.00	RT		240				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
1991+20.00		RT		30				INLET PERIMETER PROTECTION
1991+20.00		LT		30				INLET PERIMETER PROTECTION
1991+85.00		LT		30				INLET PERIMETER PROTECTION
1993+00.00	1993+90.00	RT		90				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
1994+50.00	1997+55.00	LT		305				PERIMETER CONTROL ALONG CURB
1994+75.00	1995+40.00	RT		65				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
1994+90.00		RT		30				INLET PERIMETER PROTECTION
1994+90.00		LT		30				INLET PERIMETER PROTECTION
1996+45.00	1997+55.00	LT		110				SLOPE PROTECTION HALFWAY UP SLOPE
1998+20.00	1999+35.00	RT		115				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
1998+35.00		RT		30				INLET PERIMETER PROTECTION
21ST STREET								
4+75.00	5+60.00	LT		85				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
5+50.00	6+45.00	RT		95				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
8+30.00		LT		30				INLET PERIMETER PROTECTION
8+35.00	9+10.00	RT		75				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
8+50.00		RT		30				INLET PERIMETER PROTECTION
ALLEY								
900+00.00	901+30.00	RT		130				PERIMETER CONTROL ALONG CURB
900+55.00	902+75.00	LT		220				PERIMETER CONTROL ALONG CURB
901+05.00		RT		30				INLET PERIMETER PROTECTION
901+15.00		LT		30				INLET PERIMETER PROTECTION
901+70.00	902+75.00	RT		105				PERIMETER CONTROL ALONG CURB
19TH STREET								
51+10.00		RT		30				INLET PERIMETER PROTECTION
51+10.00		LT		30				INLET PERIMETER PROTECTION
54+20.00	55+25.00	RT		105				PERIMETER CONTROL ALONG CURB
54+55.00		LT		30				INLET PERIMETER PROTECTION
54+85.00		LT		30				INLET PERIMETER PROTECTION
55+05.00	55+75.00	LT		70				PERIMETER CONTROL ALONG CURB
18TH STREET								
301+55.00	302+25.00	RT		70				PERIMETER CONTROL ALONG CURB
303+35.00	303+75.00	RT		40				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
18TH STREET NORTH								
400+30.00	402+05.00	RT		175				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
400+55.00	401+75.00	LT		120				PERIMETER CONTROL ALONG CURB
401+90.00	402+25.00	LT		35				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
401+90.00	402+35.00	LT		45				PERIMETER CONTROL ALONG CURB
17TH STREET								
600+35.00		LT		30				INLET PERIMETER PROTECTION
600+35.00	600+65.00	RT		30				PERIMETER CONTROL ALONG CURB
600+80.00	601+20.00	RT		40				PERIMETER CONTROL ALONG CURB
600+95.00	601+40.00	LT		45				PERIMETER CONTROL ALONG CURB
601+25.00		RT		30				INLET PERIMETER PROTECTION
601+45.00	602+25.00	RT		80				PERIMETER CONTROL ALONG CURB
601+60.00	602+10.00	LT		50				PERIMETER CONTROL ALONG CURB
602+40.00	603+65.00	LT		125				PERIMETER CONTROL ALONG CURB
602+80.00	603+65.00	RT		85				PERIMETER CONTROL ALONG CURB
604+25.00	605+55.00	RT		130				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
604+25.00	605+55.00	RT		130				PERIMETER CONTROL ALONG CURB
604+25.00	605+55.00	LT		130				PERIMETER CONTROL ALONG CURB
604+50.00		RT		30				INLET PERIMETER PROTECTION
604+50.00		LT		30				INLET PERIMETER PROTECTION
605+90.00	607+05.00	RT		115				PERIMETER CONTROL ALONG CURB
605+90.00	607+45.00	LT		200				PERIMETER CONTROL ALONG CURB
606+05.00	606+95.00	RT		90				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
607+35.00		LT		30				INLET PERIMETER PROTECTION
14TH STREET								
100+30.00	103+60.00	LT		330				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
100+35.00		RT		30				INLET PERIMETER PROTECTION
100+35.00		LT		30				INLET PERIMETER PROTECTION
100+40.00	101+00.00	RT		60				PERIMETER CONTROL ALONG CURB
101+30.00	101+60.00	RT		30				PERIMETER CONTROL ALONG CURB
101+90.00	102+45.00	RT		55				PERIMETER CONTROL ALONG CURB
102+65.00	103+25.00	RT		60				PERIMETER CONTROL ALONG CURB
103+45.00	103+65.00	RT		20				PERIMETER CONTROL ALONG CURB
104+10.00	107+65.00	LT		355				PERIMETER CONTROL ALONG CURB
104+25.00	104+70.00	RT		45				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
104+95.00	105+95.00	RT		100				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
106+15.00	107+70.00	RT		155				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION

PERIMETER, SLOPE AND DITCH CHECK SEDIMENT CONTROL DEVICES

Possible Standards: EC-204

Location			Perimeter and Slope			Ditch Check		Remarks
			Length of Installation			Length of Installation		
Begin Station	End Station	Side	9 inch Dia	12 inch Dia	20 inch Dia	12 inch Dia	20 inch Dia	
			LF	LF	LF	LF	LF	
107+50.00		RT		30				INLET PERIMETER PROTECTION
107+50.00		LT		30				INLET PERIMETER PROTECTION
107+95.00		RT		30				INLET PERIMETER PROTECTION
108+20.00		RT		30				INLET PERIMETER PROTECTION
108+50.00	109+40.00	LT		90				PERIMETER CONTROL ALONG CURB
108+50.00	109+75.00	RT		125				PERIMETER CONTROL ALONG CURB
109+55.00	109+85.00	LT		30				PERIMETER CONTROL ALONG CURB
109+90.00	110+05.00	RT		15				PERIMETER CONTROL ALONG CURB
110+30.00	110+70.00	RT		40				PERIMETER CONTROL ALONG CURB
110+50.00	111+65.00	LT		115				PERIMETER CONTROL ALONG CURB
110+90.00	111+60.00	RT		70				PERIMETER CONTROL ALONG CURB
111+10.00		RT		30				INLET PERIMETER PROTECTION
111+10.00		LT		30				INLET PERIMETER PROTECTION
111+90.00	112+70.00	RT		150				PERIMETER CONTROL ALONG CURB
112+00.00	112+25.00	LT		25				PERIMETER CONTROL ALONG CURB
112+55.00	112+70.00	LT		15				PERIMETER CONTROL ALONG CURB
13TH STREET SW								
500+50.00	501+40.00	LT		90				PERIMETER CONTROL ALONG CURB
500+50.00	502+25.00	RT		175				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
501+75.00	502+30.00	LT		55				PERIMETER CONTROL ALONG CURB
502+45.00	502+95.00	LT		50				PERIMETER CONTROL ALONG CURB
502+55.00	503+00.00	RT		45				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
503+15.00	504+40.00	LT		125				PERIMETER CONTROL ALONG CURB
503+35.00	506+45.00	RT		310				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
504+75.00	505+20.00	LT		45				PERIMETER CONTROL ALONG CURB
505+70.00	506+45.00	LT		75				PERIMETER CONTROL ALONG CURB
13TH STREET SE								
701+20.00	702+10.00	RT		90				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
701+70.00	702+15.00	RT		45				PERIMETER CONTROL ALONG CURB
701+70.00	702+35.00	LT		65				PERIMETER CONTROL ALONG CURB
702+00.00		RT		30				INLET PERIMETER PROTECTION
702+00.00		LT		30				INLET PERIMETER PROTECTION
702+75.00	704+00.00	LT		125				PERIMETER CONTROL ALONG CURB
703+00.00	704+30.00	RT		130				PERIMETER CONTROL ALONG CURB
703+00.00	704+35.00	RT		135				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
704+10.00		RT		30				INLET PERIMETER PROTECTION
704+10.00		LT		30				INLET PERIMETER PROTECTION
705+30.00	705+50.00	RT		20				PERIMETER CONTROL ALONG CURB
705+60.00	706+70.00	LT		110				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
705+65.00	705+90.00	RT		25				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
705+65.00	705+90.00	RT		25				PERIMETER CONTROL ALONG CURB
706+00.00	706+35.00	RT		35				PERIMETER CONTROL ALONG CURB
706+00.00	706+40.00	RT		40				SLOPE PROTECTION AT LIMIT OF CONSTRUCTION
706+70.00	708+55.00	LT		185				PERIMETER CONTROL ALONG CURB
707+20.00	707+90.00	RT		70				PERIMETER CONTROL ALONG CURB
708+20.00	708+50.00	RT		30				PERIMETER CONTROL ALONG CURB
708+70.00	709+20.00	RT		50				PERIMETER CONTROL ALONG CURB
709+00.00		RT		30				INLET PERIMETER PROTECTION
709+00.00		LT		30				INLET PERIMETER PROTECTION
			TOTAL	22955				



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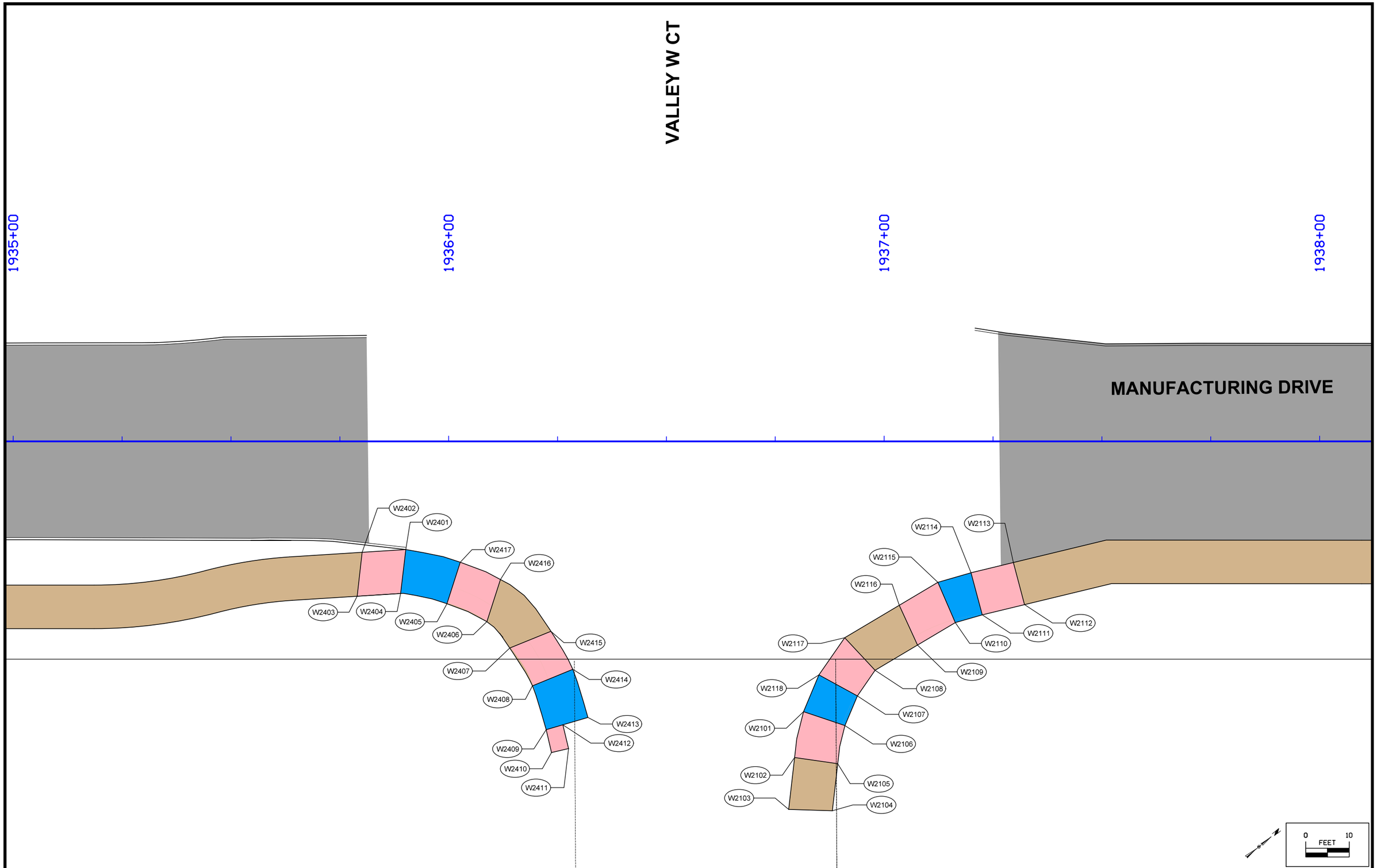

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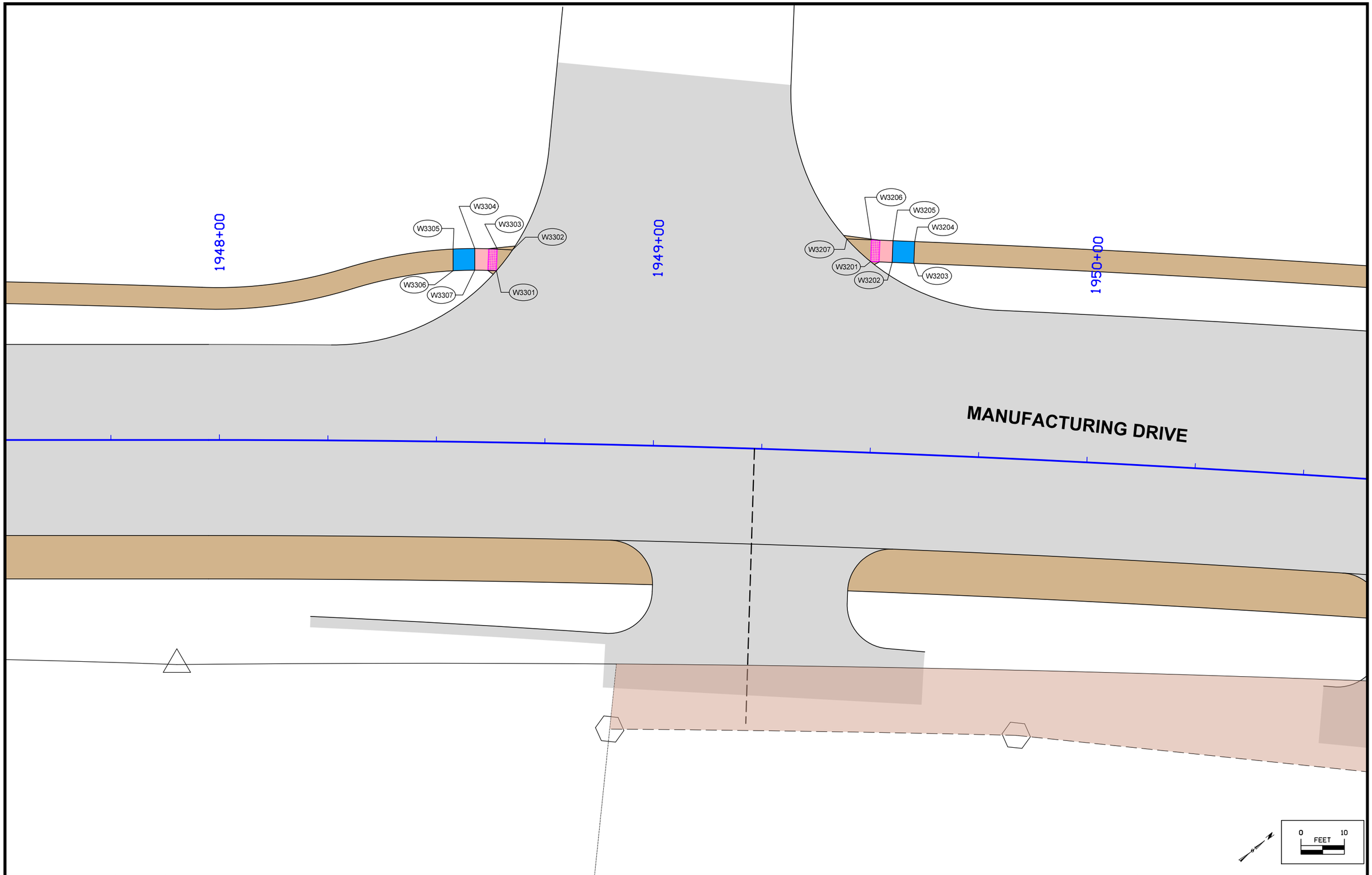

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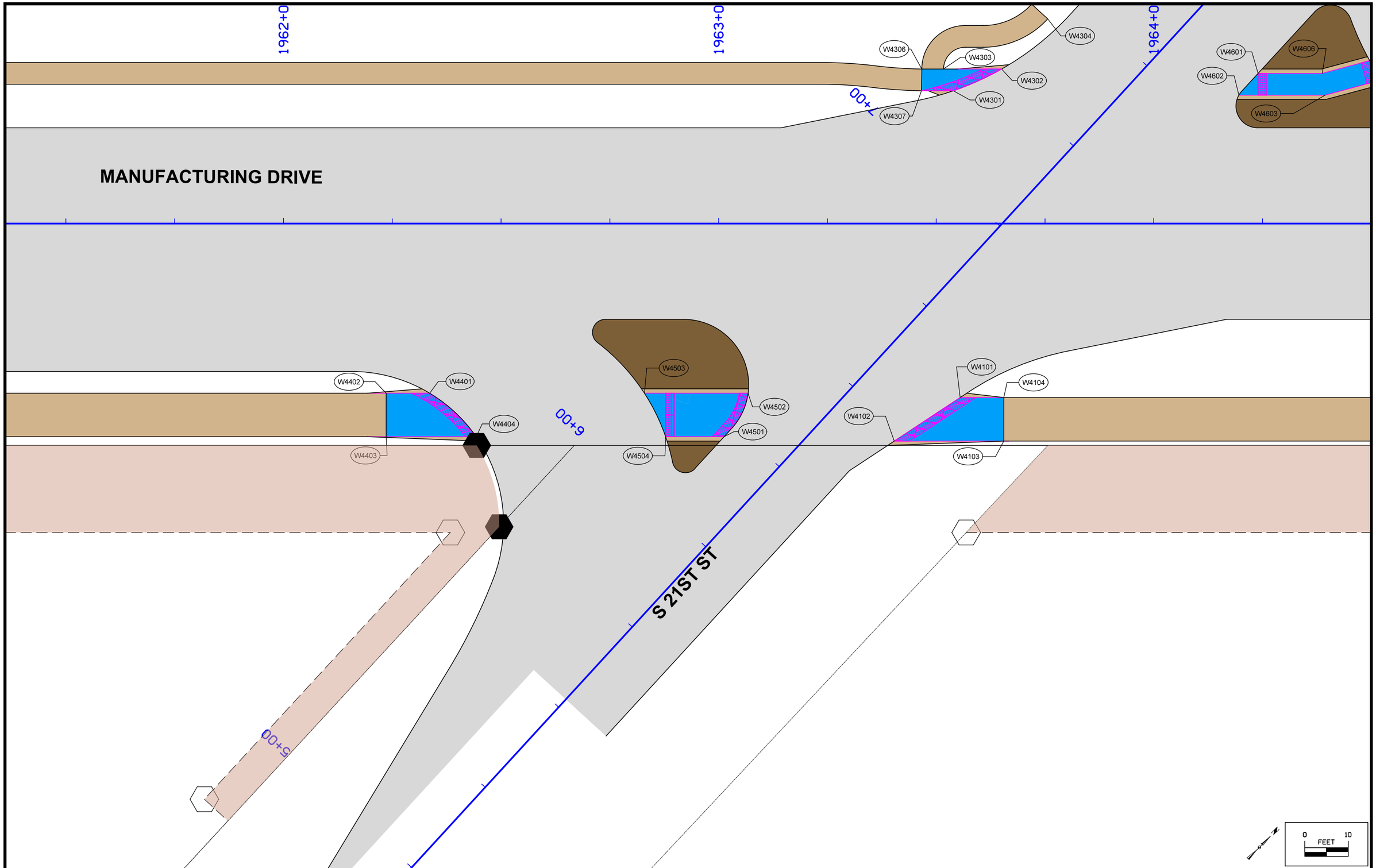

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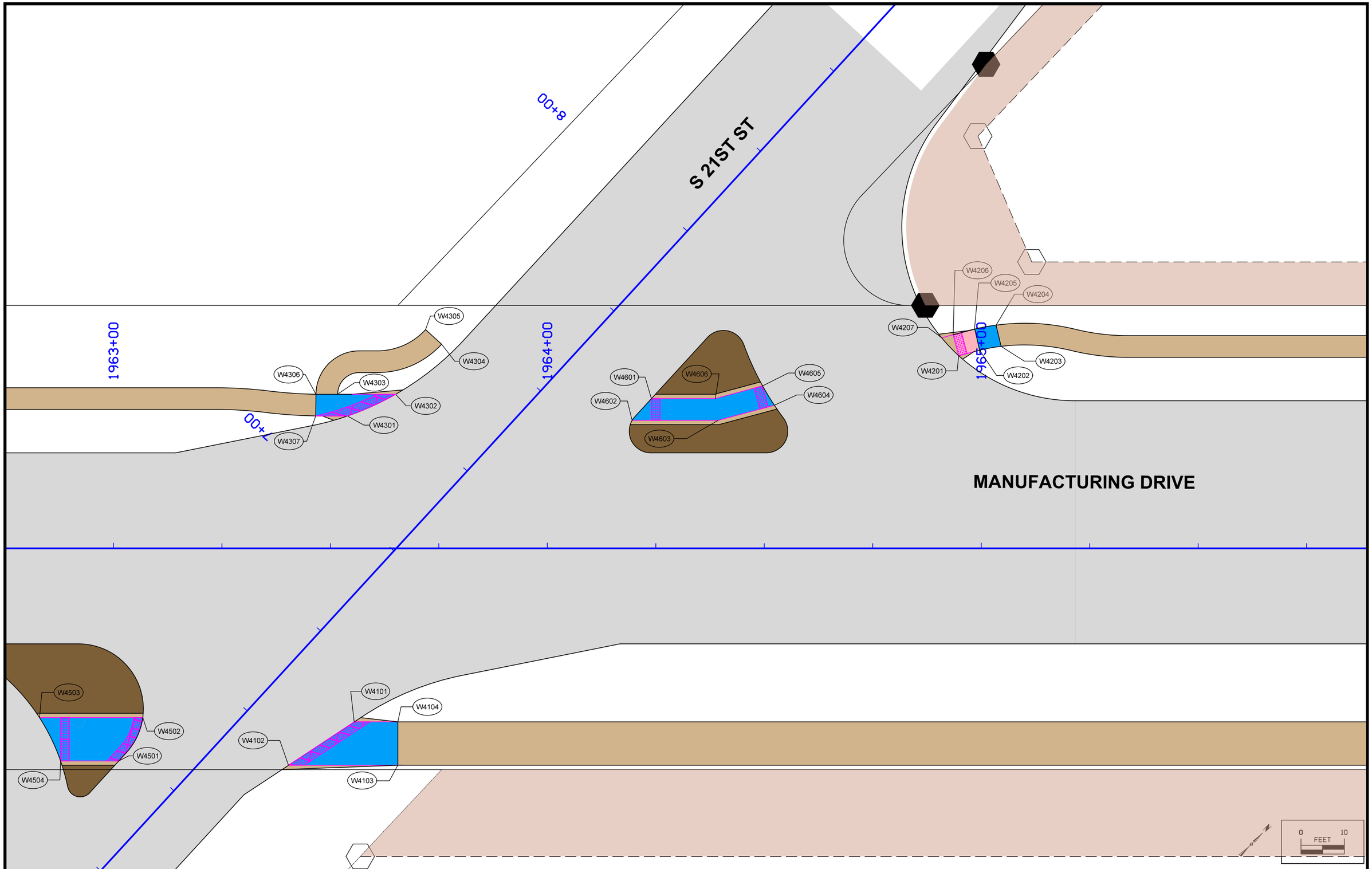

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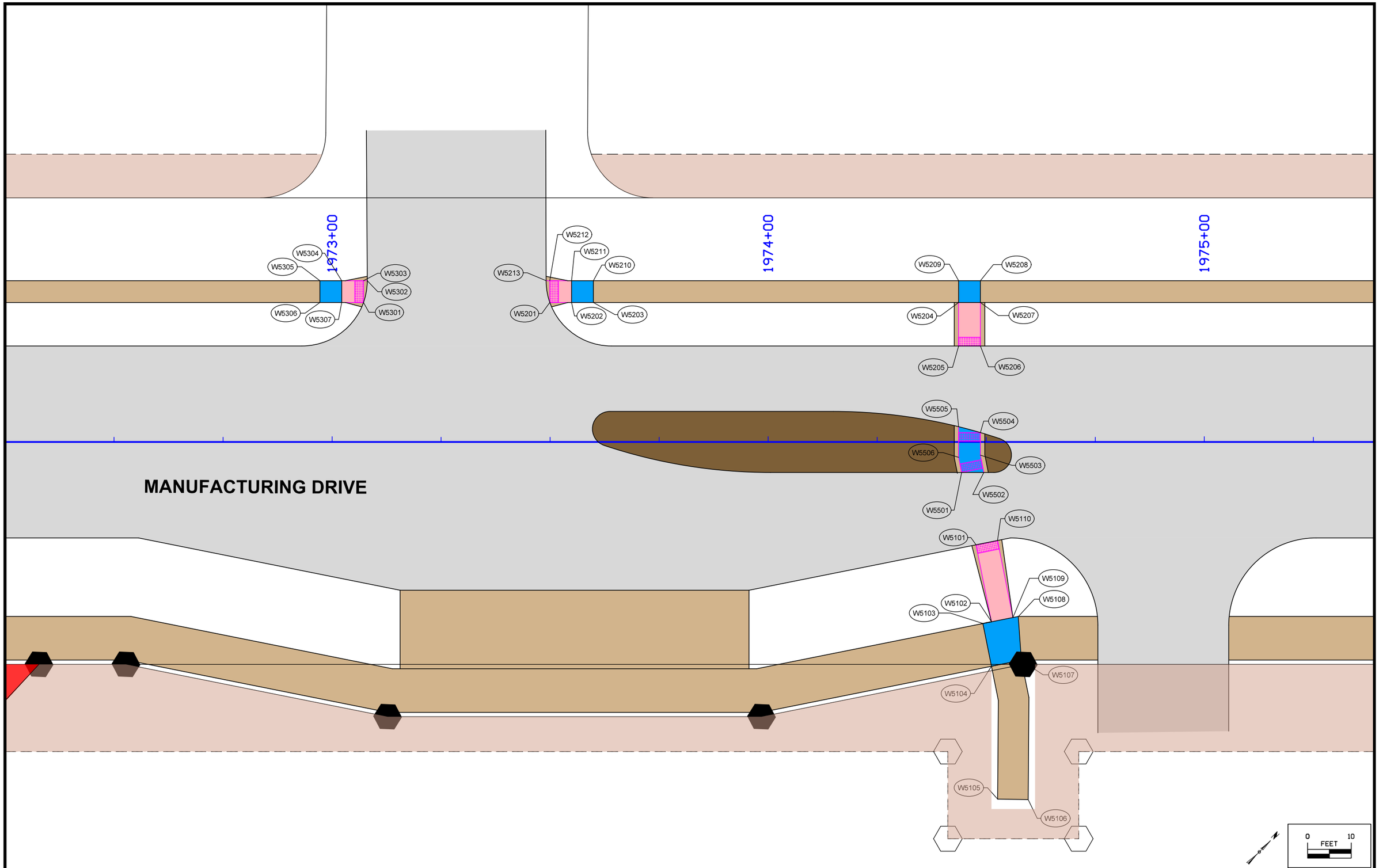

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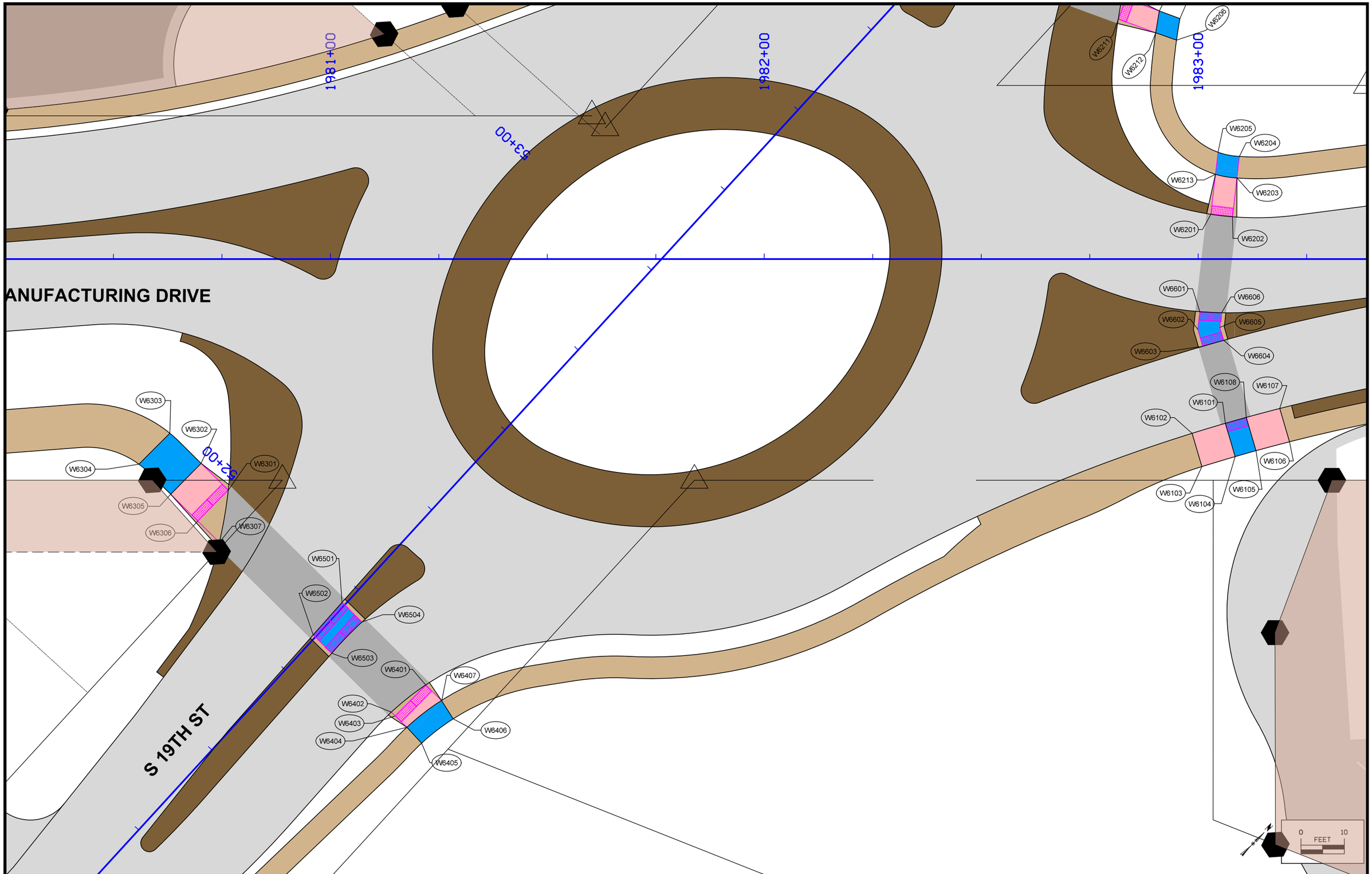

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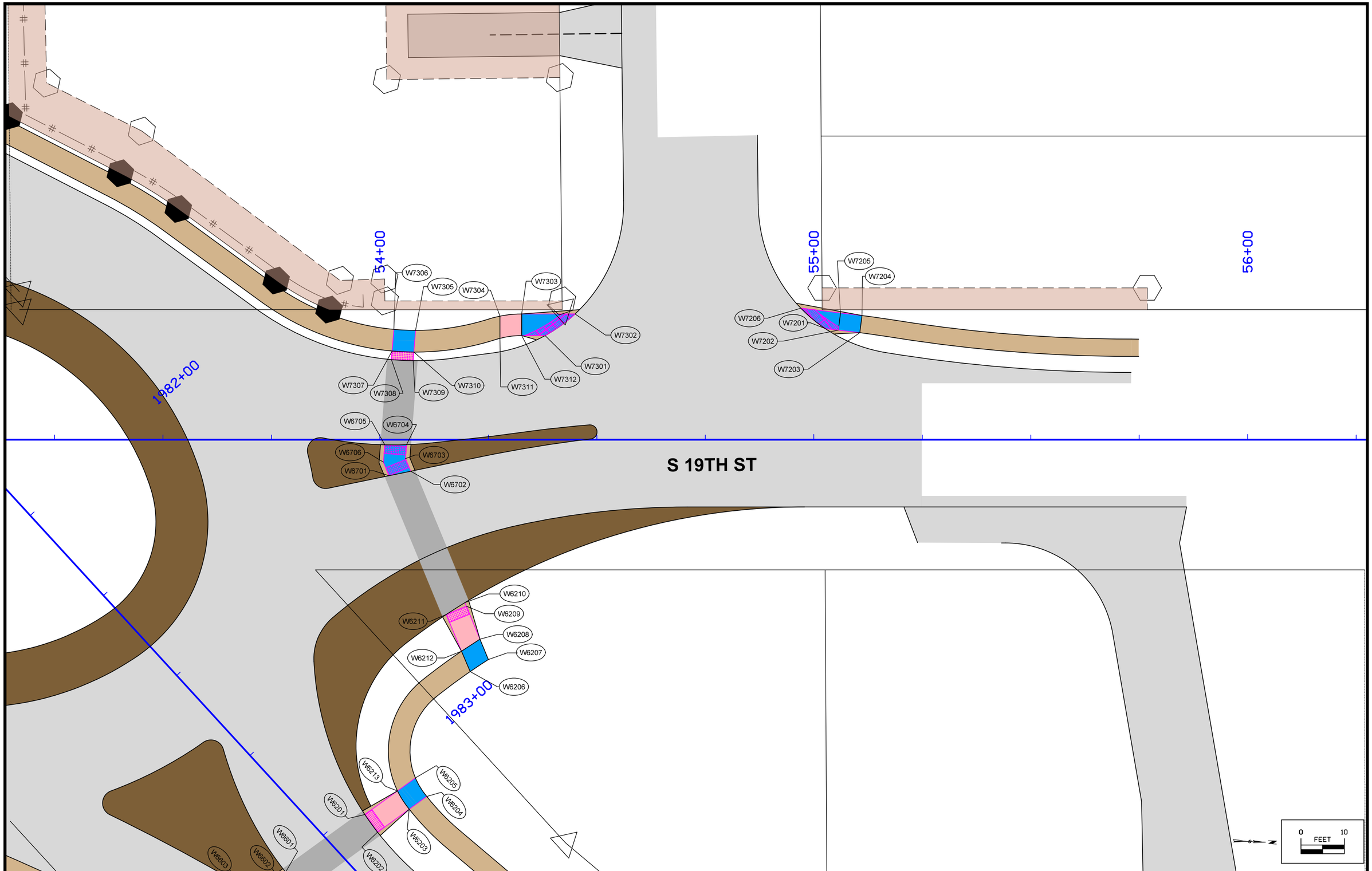

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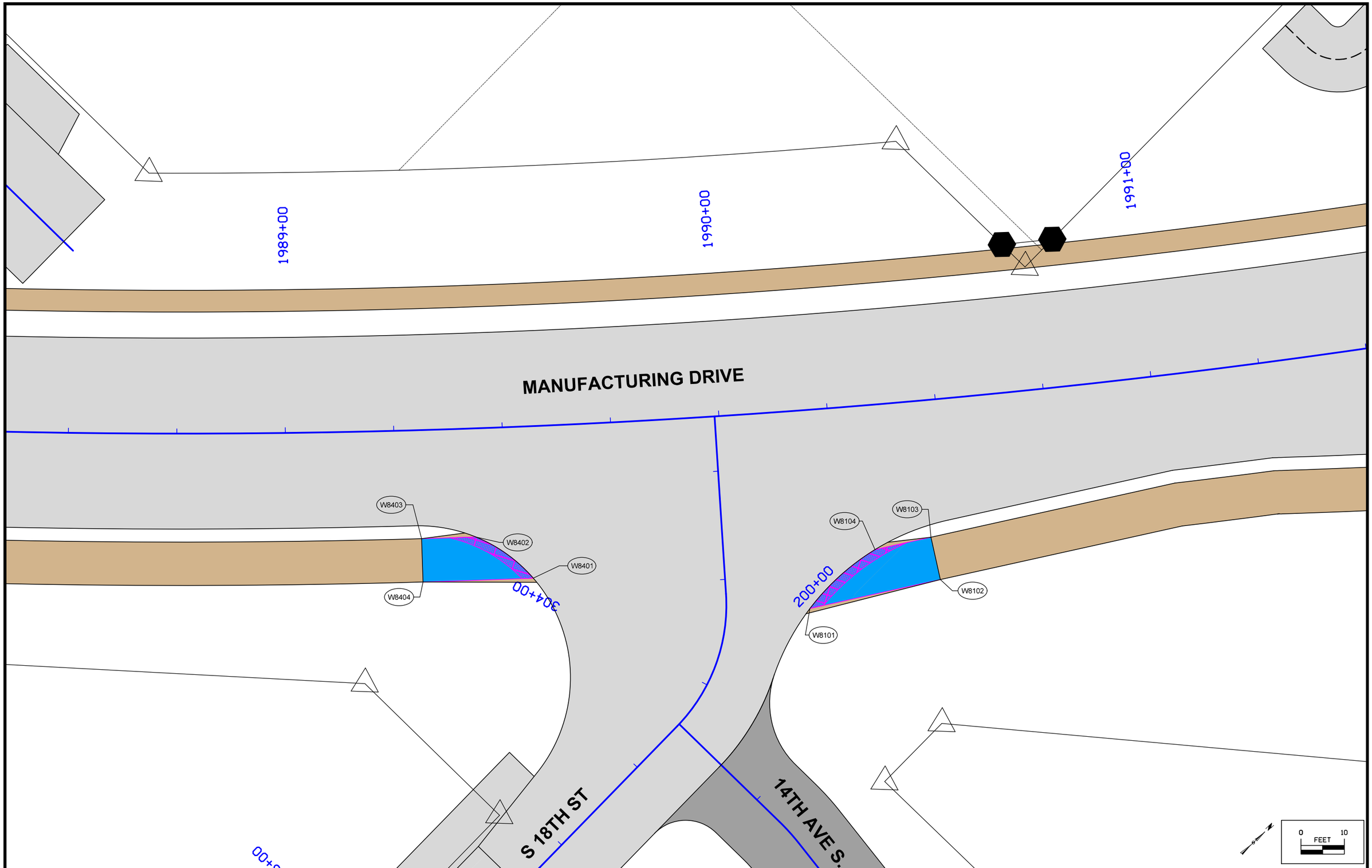

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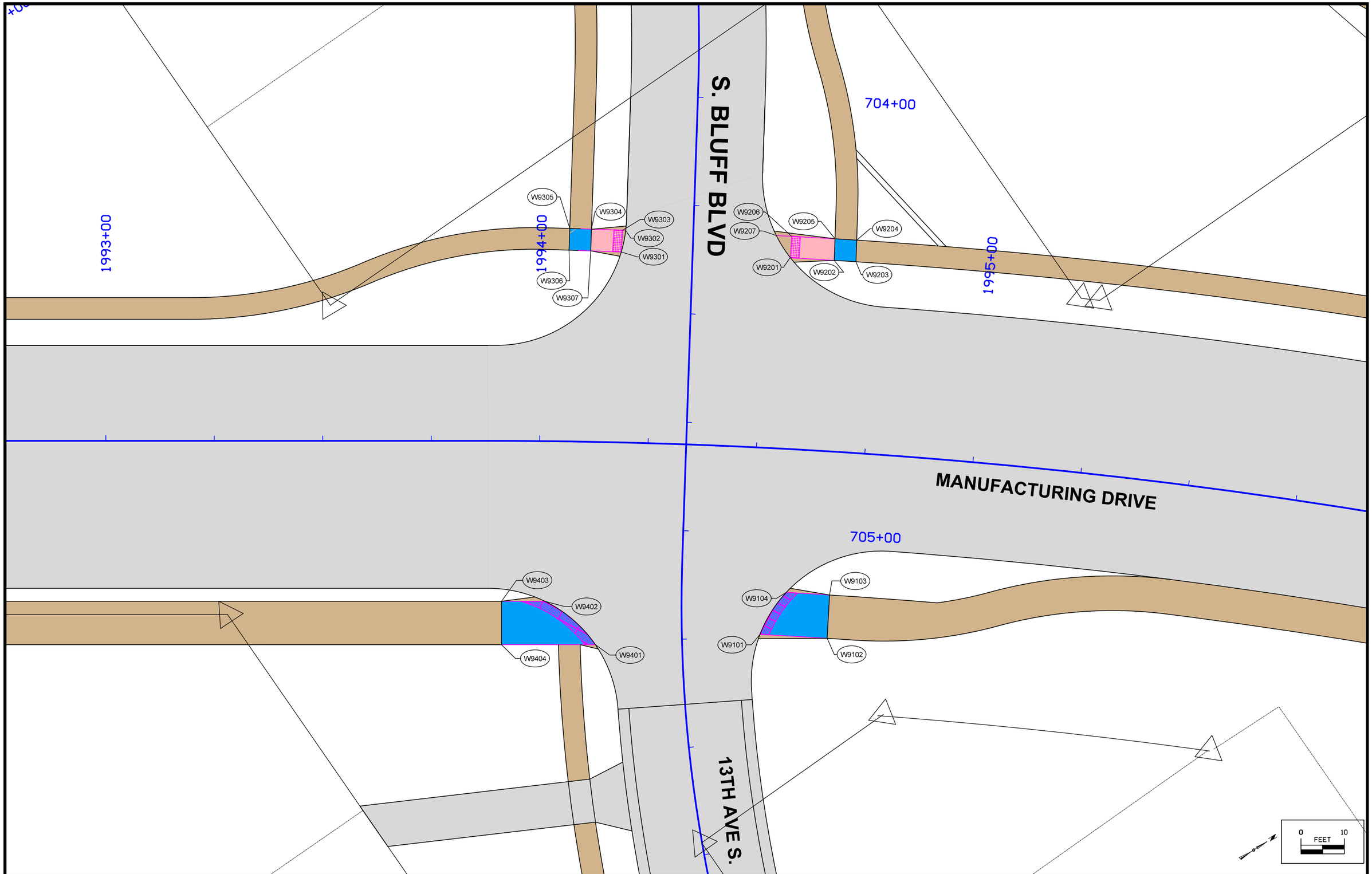

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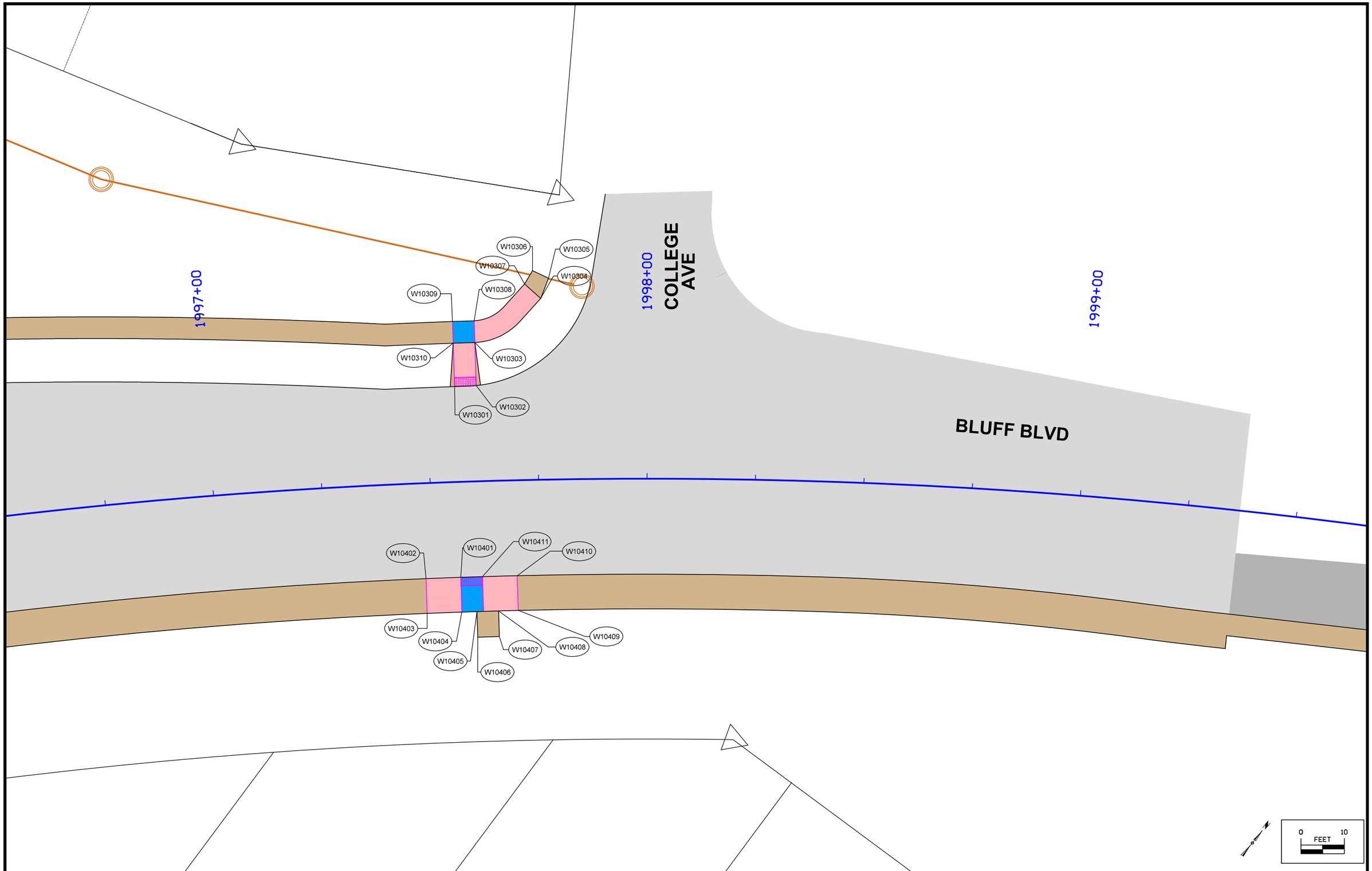

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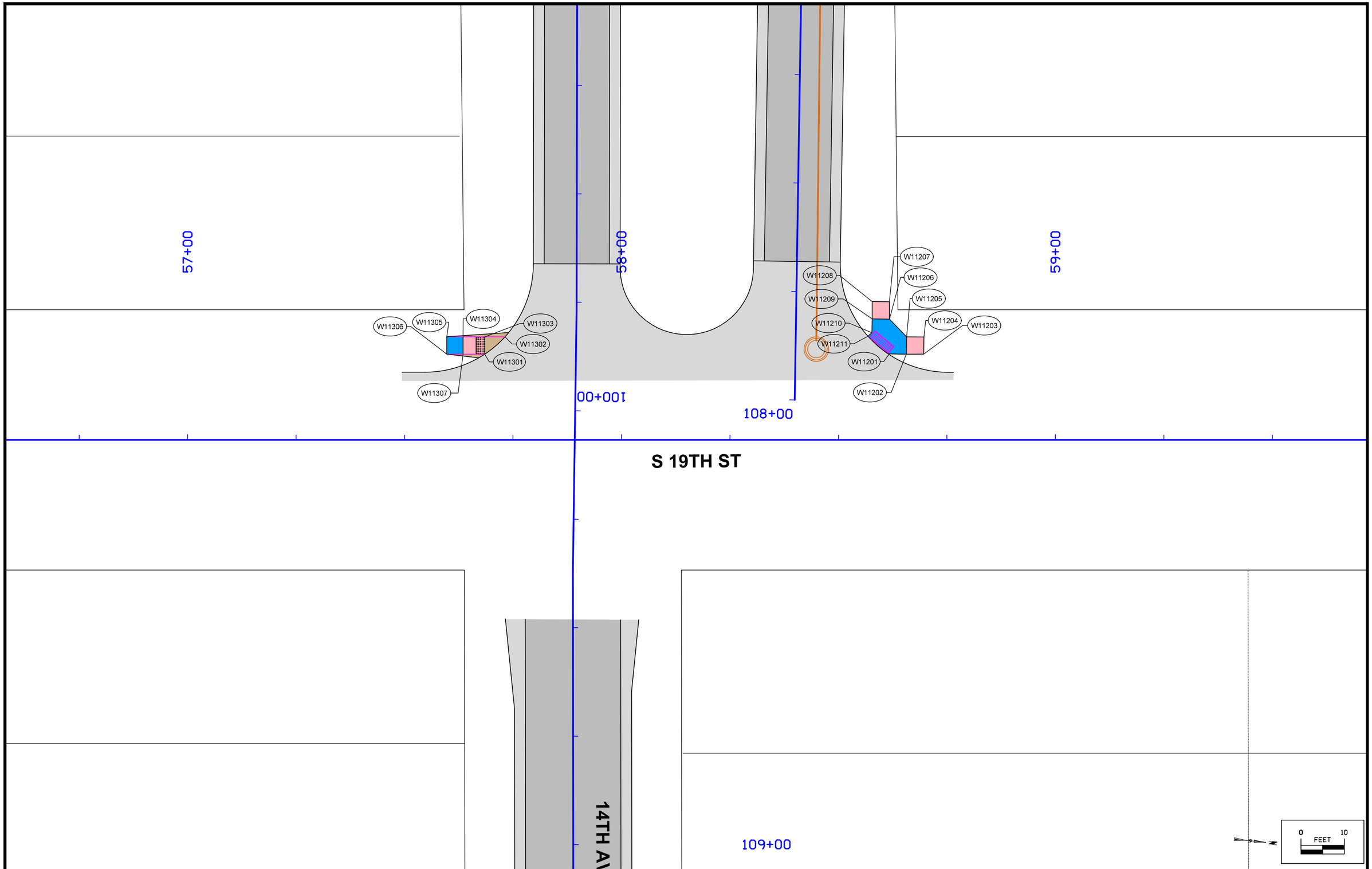

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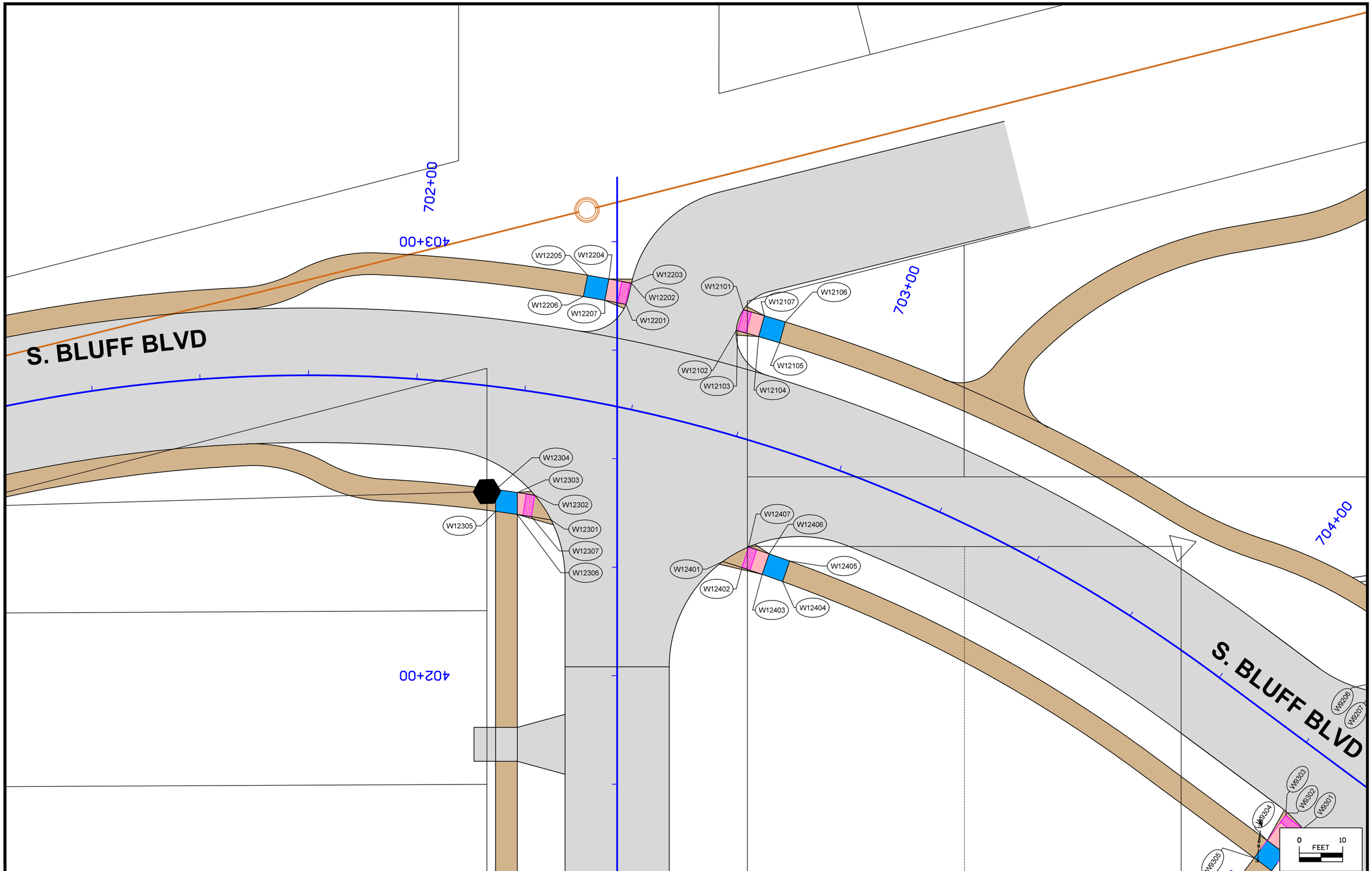

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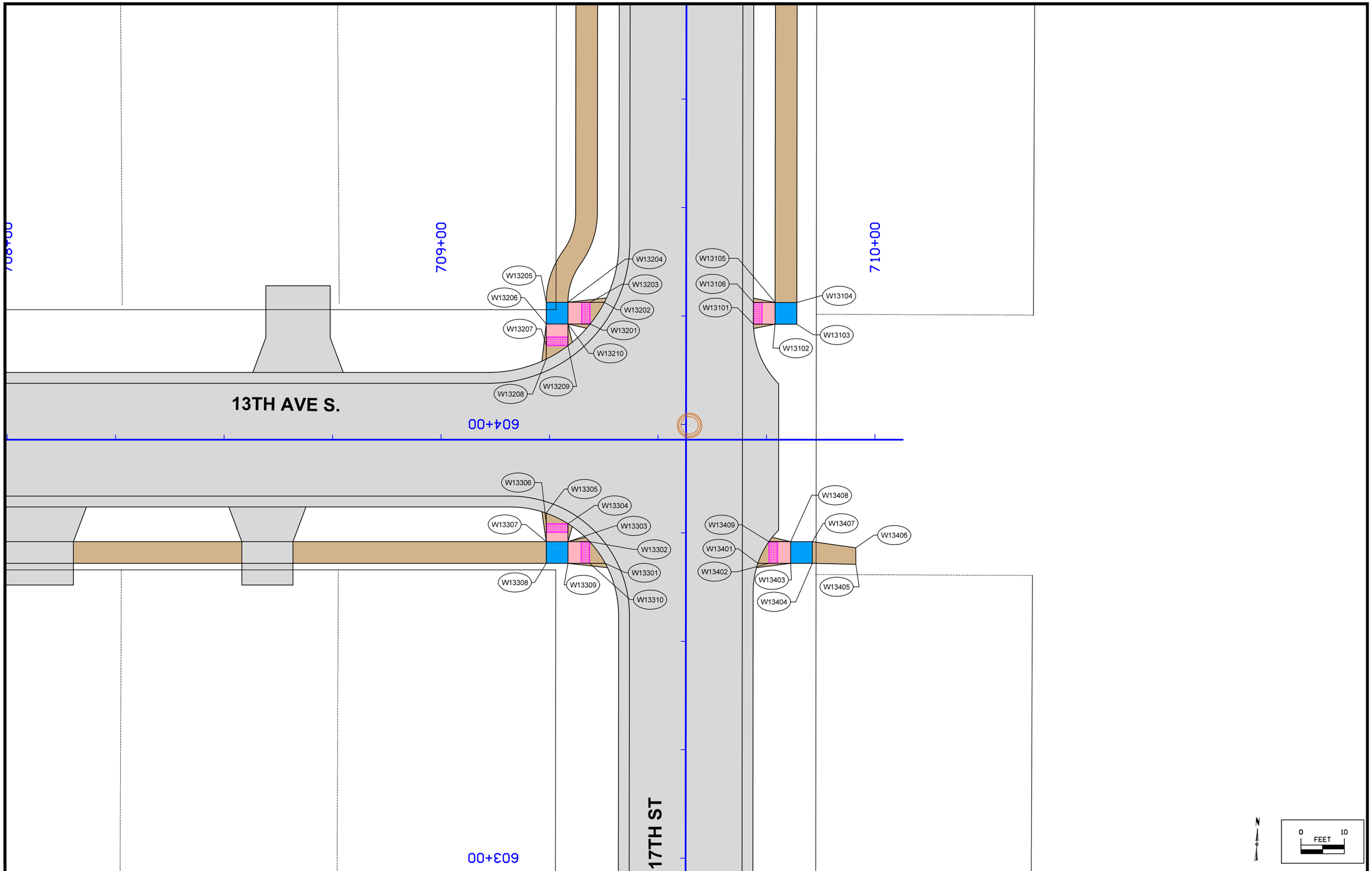

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SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb
(1) Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.
(2) Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk (2)	Distance* FT	Δ Elevation FT	Slope %	Acceptable Constructed Range Pos. or Neg.	Staking Required on this Quadrant? (1)	Measured Slope %	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES Point	Station	Offset	Elevation
W1101	W1102	Ramp Running Slope	6	6.39	0.40	6.3%	0.5% to 8.3%					W1101			592.67
W1101	W1106	Ramp Cross Slope	6	5.00	0.06	1.2%	0.1% to 2.0%					W1102			593.07
W1101	W1107	Crosswalk Cross Slope - Yield Condition	6	5.65	0.04	0.7%	0.0% to 2.0%					W1103			593.22
W1102	W1103	Landing/Turning Space	4	10.00	0.15	1.5%	0.1% to 2.0%					W1104			593.25
W1102	W1105	Landing/Turning Space	4	5.00	0.03	0.6%	0.1% to 2.0%					W1105			593.10
W1103	W1104	Landing/Turning Space	4	5.00	0.03	0.6%	0.1% to 2.0%					W1106			592.73
W1104	W1105	Sidewalk Cross Slope	4	10.00	-0.15	-1.5%	0.5% to 2.0%					W1107			592.71
W1105	W1106	Ramp Running Slope	6	6.39	-0.37	-5.8%	0.5% to 8.3%								
W1106	W1107	Ramp Running Slope	6	2.64	-0.02	-0.8%	0.5% to 8.3%								
W1201	W1202	Crosswalk Cross Slope - Yield Condition	6	5.55	0.02	0.4%	0.0% to 2.0%					W1201			592.77
W1201	W1203	Ramp Cross Slope	6	5.00	0.09	1.8%	0.1% to 2.0%	Yes				W1202			592.79
W1201	W1207	Ramp Running Slope	6	8.12	0.51	6.3%	0.5% to 8.3%					W1203			592.86
W1202	W1203	Ramp Running Slope	6	2.41	0.07	2.9%	0.5% to 8.3%					W1204			593.29
W1203	W1204	Ramp Running Slope	6	5.29	0.43	8.1%	0.5% to 8.3%	Yes				W1205			593.37
W1204	W1205	Landing/Turning Space	4	5.00	0.08	1.6%	0.1% to 2.0%	Yes				W1206			593.36
W1204	W1207	Landing/Turning Space	4	5.74	-0.01	-0.2%	0.1% to 2.0%					W1207			593.28
W1205	W1206	Landing/Turning Space	4	5.74	-0.01	-0.2%	0.1% to 2.0%								
W1206	W1207	Landing/Turning Space	4	5.00	-0.08	-1.6%	0.1% to 2.0%	Yes							
W2101	W2102	Ramp Running Slope	6	10.00	-0.04	-0.4%	0.5% to 8.3%					W2101			592.99
W2101	W2106	Ramp Cross Slope	6	10.03	0.16	1.6%	0.1% to 2.0%	Yes				W2102			592.95
W2101	W2118	Landing/Turning Space	4	9.16	0.02	0.2%	0.1% to 2.0%					W2103			592.90
W2102	W2103	Sidewalk Running Slope	4	12.72	-0.05	-0.4%	0.5% to 5.0%					W2104			593.04
W2102	W2105	Sidewalk Cross Slope	4	10.00	0.15	1.5%	0.5% to 2.0%					W2105			593.10
W2103	W2104	Sidewalk Cross Slope	4	10.04	0.14	1.4%	0.5% to 2.0%					W2106			593.15
W2104	W2105	Sidewalk Running Slope	4	9.78	0.06	0.6%	0.5% to 5.0%					W2107			593.17
W2105	W2106	Ramp Running Slope	6	7.48	0.05	0.7%	0.5% to 8.3%					W2108			593.28
W2106	W2107	Landing/Turning Space	4	7.38	0.02	0.3%	0.1% to 2.0%					W2109			593.33
W2107	W2108	Ramp Running Slope	6	10.00	0.11	1.1%	0.5% to 8.3%					W2110			593.26
W2107	W2118	Landing/Turning Space	4	10.05	-0.16	-1.6%	0.1% to 2.0%	Yes				W2111			593.15
W2108	W2109	Sidewalk Running Slope	4	8.40	0.05	0.6%	0.5% to 5.0%					W2112			593.78
W2108	W2117	Ramp Cross Slope	6	10.00	-0.11	-1.1%	0.1% to 2.0%					W2113			593.01
W2109	W2110	Ramp Running Slope	6	10.00	-0.07	-0.7%	0.5% to 8.3%					W2114			593.00
W2109	W2116	Ramp Cross Slope	6	10.00	-0.19	-1.9%	0.1% to 2.0%	Yes				W2115			593.11
W2110	W2111	Landing/Turning Space	4	6.43	-0.11	-1.7%	0.1% to 2.0%	Yes				W2116			593.14
W2110	W2115	Landing/Turning Space	4	10.08	-0.15	-1.5%	0.1% to 2.0%					W2117			593.17
W2111	W2112	Ramp Running Slope	6	10.00	0.63	6.3%	0.5% to 8.3%					W2118			593.01
W2111	W2114	Landing/Turning Space	4	10.00	-0.15	-1.5%	0.1% to 2.0%								
W2112	W2113	Ramp Cross Slope	6	10.00	-0.77	-7.7%	0.1% to 8.7%								
W2113	W2114	Ramp Running Slope	6	10.00	-0.01	-0.1%	0.1% to 2.0%								
W2114	W2115	Landing/Turning Space	4	7.93	0.11	1.4%	0.5% to 8.3%								
W2115	W2116	Ramp Running Slope	6	10.00	0.03	0.3%	0.1% to 2.0%								
W2116	W2117	Sidewalk Running Slope	4	15.25	0.03	0.2%	0.5% to 8.3%								
W2117	W2118	Ramp Running Slope	6	10.00	-0.16	-1.6%	0.5% to 5.0%								
W2401	W2402	Ramp Running Slope	6	10.00	-0.02	-0.2%	0.5% to 8.3%					W2401			593.49
W2401	W2404	Landing/Turning Space	4	10.03	0.19	1.9%	0.1% to 2.0%	Yes				W2402			593.47
W2401	W2417	Landing/Turning Space	4	12.85	-0.02	-0.2%	0.1% to 2.0%					W2403			593.62
W2402	W2403	Ramp Cross Slope	6	10.03	0.15	1.5%	0.1% to 2.0%					W2404			593.68
W2403	W2404	Ramp Running Slope	6	10.00	0.06	0.6%	0.5% to 8.3%					W2405			593.60
W2404	W2405	Landing/Turning Space	4	10.03	-0.08	-0.8%	0.1% to 2.0%					W2406			593.49
W2405	W2406	Ramp Running Slope	6	10.00	-0.11	-1.1%	0.5% to 8.3%					W2407			593.34
W2405	W2417	Ramp Cross Slope	6	10.01	-0.13	-1.3%	0.1% to 2.0%					W2408			593.26
W2406	W2407	Sidewalk Running Slope	4	8.20	-0.15	-1.8%	0.5% to 5.0%					W2409			593.31
W2406	W2416	Ramp Cross Slope	6	10.00	-0.15	-1.5%	0.1% to 2.0%					W2410			593.61
W2407	W2408	Ramp Running Slope	6	10.00	-0.08	-0.8%	0.5% to 8.3%					W2411			593.54
W2407	W2415	Ramp Cross Slope	6	10.00	-0.15	-1.5%	0.1% to 2.0%					W2412			593.10
W2408	W2409	Landing/Turning Space	4	10.55	0.05	0.5%	0.1% to 2.0%					W2413			593.01
W2408	W2414	Landing/Turning Space	4	10.01	-0.15	-1.5%	0.1% to 2.0%					W2414			593.11
W2409	W2410	Ramp Running Slope	6	5.40	0.30	5.6%	0.1% to 2.0%					W2415			593.19
W2409	W2416	Landing/Turning Space	4	4.01	0.03	0.7%	0.5% to 8.3%					W2416			593.34
W2410	W2411	Ramp Cross Slope	6	4.02	-0.07	-1.7%	0.1% to 2.0%	Yes				W2417			593.47
W2411	W2412	Ramp Running Slope	6	5.40	-0.44	-8.1%	0.1% to 2.0%	Yes							
W2412	W2413	Landing/Turning Space	4	6.00	-0.09	-1.5%	0.5% to 8.3%	Yes							
W2413	W2414	Landing/Turning Space	4	11.58	0.10	0.9%	0.1% to 2.0%								
W2414	W2415	Ramp Running Slope	6	10.00	0.08	0.8%	0.1% to 2.0%								
W2415	W2416	Sidewalk Running Slope	4	16.70	0.15	0.9%	0.5% to 8.3%								
W2416	W2417	Ramp Running Slope	6	10.00	0.13	1.3%	0.5% to 5.0%								
W3201	W3202	Ramp Running Slope	6	5.00	0.32	6.4%	0.5% to 8.3%					W3201			593.62

SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb
(1) Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.
(2) Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk (2)	Distance* FT	Δ Elevation FT	Slope %	Acceptable Constructed Range Pos. or Neg.	Staking Required on this Quadrant? (1)	Measured Slope %	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES Point	Station	Offset	Elevation
W3201	W3206	Ramp Cross Slope	6	5.00	0.01	0.2%	0.1% to 2.0%					W3202			593.94
W3201	W3207	Crosswalk Cross Slope - Yield Condition	6	7.55	0.05	0.7%	0.0% to 2.0%					W3203			594.03
W3202	W3203	Landing/Turning Space	4	5.00	0.09	1.8%	0.1% to 2.0%	Yes				W3204			594.05
W3202	W3205	Landing/Turning Space	4	5.00	0.03	0.6%	0.1% to 2.0%					W3205			593.97
W3203	W3204	Landing/Turning Space	4	5.00	0.02	0.4%	0.1% to 2.0%					W3206			593.63
W3204	W3205	Landing/Turning Space	4	5.00	-0.08	-1.6%	0.1% to 2.0%	Yes				W3207			593.67
W3205	W3206	Ramp Running Slope	6	5.00	-0.34	-6.8%	0.5% to 8.3%								
W3206	W3207	Ramp Running Slope	6	5.66	0.04	0.7%	0.5% to 8.3%								
W3301	W3302	Crosswalk Cross Slope - Yield Condition	6	6.05	0.03	0.5%	0.0% to 2.0%					W3301			593.03
W3301	W3303	Ramp Cross Slope	6	5.00	0.08	1.6%	0.1% to 2.0%	Yes				W3302			593.06
W3301	W3307	Ramp Running Slope	6	5.00	0.32	6.4%	0.5% to 8.3%					W3303			593.11
W3302	W3303	Ramp Running Slope	6	3.45	0.05	1.4%	0.5% to 8.3%					W3304			593.37
W3303	W3304	Ramp Running Slope	6	5.00	0.26	5.2%	0.5% to 8.3%					W3305			593.40
W3304	W3305	Landing/Turning Space	4	5.00	0.03	0.6%	0.1% to 2.0%					W3306			593.38
W3304	W3307	Landing/Turning Space	4	5.00	-0.02	-0.4%	0.1% to 2.0%					W3307			593.35
W3305	W3306	Landing/Turning Space	4	5.00	-0.02	-0.4%	0.1% to 2.0%								
W3306	W3307	Landing/Turning Space	4	5.00	-0.03	-0.6%	0.1% to 2.0%								
W4101	W4102	Landing/Turning Space	4	18.20	0.11	0.6%	0.1% to 2.0%					W4101			589.86
W4101	W4104	Landing/Turning Space	4	10.00	0.05	0.5%	0.1% to 2.0%					W4102			589.97
W4102	W4103	Landing/Turning Space	4	25.14	0.09	0.4%	0.1% to 2.0%					W4103			590.06
W4103	W4104	Landing/Turning Space	4	10.00	-0.15	-1.5%	0.1% to 2.0%					W4104			589.91
W4201	W4202	Ramp Running Slope	6	5.00	0.32	6.4%	0.5% to 8.3%					W4201			589.76
W4201	W4206	Ramp Cross Slope	6	5.00	0.09	1.8%	0.1% to 2.0%	Yes				W4202			590.08
W4201	W4207	Crosswalk Cross Slope - No Yield Condition	6	5.70	-0.04	-0.7%	0.0% to 5.0%					W4203			590.16
W4202	W4203	Landing/Turning Space	4	5.00	0.08	1.6%	0.1% to 2.0%	Yes				W4204			590.09
W4202	W4205	Landing/Turning Space	4	5.00	-0.06	-1.2%	0.1% to 2.0%					W4205			590.02
W4203	W4204	Landing/Turning Space	4	5.00	-0.07	-1.4%	0.1% to 2.0%					W4206			589.85
W4204	W4205	Landing/Turning Space	4	5.00	-0.07	-1.4%	0.1% to 2.0%					W4207			589.72
W4205	W4206	Ramp Running Slope	6	5.00	-0.17	-3.4%	0.5% to 8.3%								
W4206	W4207	Ramp Running Slope	6	2.73	-0.13	-4.8%	0.5% to 8.3%								
W4301	W4302	Crosswalk Cross Slope - Yield Condition	6	12.17	0.06	0.5%	0.0% to 2.0%					W4301			589.56
W4301	W4307	Landing/Turning Space	4	5.00	0.03	0.6%	0.1% to 2.0%					W4302			589.62
W4302	W4303	Landing/Turning Space	4	11.10	0.03	0.3%	0.1% to 2.0%					W4303			589.65
W4303	W4304	Sidewalk Running Slope	4	12.34	0.24	1.9%	0.5% to 5.0%					W4304			589.89
W4303	W4306	Landing/Turning Space	4	5.00	0.02	0.4%	0.1% to 2.0%					W4305			589.92
W4304	W4305	Sidewalk Cross Slope	4	5.00	0.03	0.6%	0.5% to 2.0%					W4306			589.67
W4305	W4306	Sidewalk Running Slope	4	11.48	-0.25	-2.2%	0.5% to 5.0%					W4307			589.59
W4306	W4307	Landing/Turning Space	4	5.00	-0.08	-1.6%	0.1% to 2.0%	Yes							
W4401	W4402	Landing/Turning Space	4	10.00	0.19	1.9%	0.1% to 2.0%	Yes				W4401			589.05
W4401	W4404	Landing/Turning Space	4	14.64	0.28	1.9%	0.1% to 2.0%	Yes				W4402			589.24
W4402	W4403	Landing/Turning Space	4	10.00	0.19	1.9%	0.1% to 2.0%	Yes				W4403			589.43
W4403	W4404	Landing/Turning Space	4	24.98	-0.10	-0.4%	0.1% to 2.0%					W4404			589.33
W4501	W4502	Landing/Turning Space	4	23.81	-0.16	-0.7%	0.1% to 2.0%					W4501			590.11
W4501	W4504	Landing/Turning Space	4	13.42	0.04	0.3%	0.1% to 2.0%					W4502			589.95
W4502	W4503	Landing/Turning Space	4	11.42	0.03	0.3%	0.1% to 2.0%					W4503			589.98
W4503	W4504	Landing/Turning Space	4	11.12	0.17	1.5%	0.1% to 2.0%					W4504			590.15
W4601	W4602	Landing/Turning Space	4	6.69	0.08	1.2%	0.1% to 2.0%					W4601			589.20
W4601	W4606	Landing/Turning Space	4	14.74	0.05	0.3%	0.1% to 2.0%					W4602			589.28
W4602	W4603	Landing/Turning Space	4	19.82	0.10	0.5%	0.1% to 2.0%					W4603			589.38
W4603	W4604	Landing/Turning Space	4	13.41	-0.04	-0.3%	0.1% to 2.0%					W4604			589.34
W4604	W4605	Landing/Turning Space	4	5.21	-0.06	-1.2%	0.1% to 2.0%					W4605			589.28
W4605	W4606	Landing/Turning Space	4	11.29	-0.03	-0.3%	0.1% to 2.0%					W4606			589.25
W5101	W5102	Ramp Running Slope	6	18.00	1.13	6.3%	0.5% to 8.3%					W5101			588.83
W5101	W5110	Crosswalk Cross Slope - No Yield Condition	6	5.00	0.01	0.2%	0.0% to 5.0%					W5102			589.96
W5102	W5103	Landing/Turning Space	4	2.50	-0.01	-0.4%	0.1% to 2.0%					W5103			589.95
W5102	W5109	Landing/Turning Space	4	5.00	0.01	0.2%	0.1% to 2.0%					W5104			590.10
W5103	W5104	Landing/Turning Space	4	10.00	0.15	1.5%	0.1% to 2.0%					W5105			589.45
W5104	W5105	Sidewalk Running Slope	4	30.87	-0.65	-2.1%	0.5% to 5.0%					W5106			589.51
W5104	W5107	Landing/Turning Space	4	10.00	0.03	0.3%	0.1% to 2.0%					W5107			590.13
W5105	W5106	Sidewalk Cross Slope	4	10.00	0.06	0.6%	0.5% to 2.0%					W5108			589.98

SIDEWALK COMPLIANCE

See S Sheets

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(2) Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk (2)	Distance* FT	Δ Elevation FT	Slope %	Acceptable Constructed Range Pos. or Neg.	Staking Required on this Quadrant? (1)	Measured Slope %	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES Point	Station	Offset	Elevation
W5106	W5107	Sidewalk Running Slope	4	30.87	0.62	2.0%	0.5% to 5.0%					W5109			589.97
W5107	W5108	Landing/Turning Space	4	10.00	-0.15	-1.5%	0.1% to 2.0%					W5110			588.84
W5108	W5109	Landing/Turning Space	4	2.50	-0.01	-0.4%	0.1% to 2.0%								
W5109	W5110	Ramp Running Slope	6	18.00	-1.13	-6.3%	0.5% to 8.3%								
W5201	W5202	Ramp Running Slope	6	5.00	-0.23	-4.6%	0.5% to 8.3%					W5201			588.40
W5201	W5212	Ramp Cross Slope	6	5.00	0.08	1.6%	0.1% to 2.0%	Yes				W5202			588.17
W5201	W5213	Crosswalk Cross Slope - Yield Condition	6	5.07	0.03	0.6%	0.0% to 2.0%					W5203			588.25
W5202	W5203	Landing/Turning Space	4	5.00	0.08	1.6%	0.1% to 2.0%	Yes				W5204			589.44
W5202	W5211	Landing/Turning Space	4	5.00	0.04	0.8%	0.1% to 2.0%					W5205			588.81
W5203	W5204	Sidewalk Running Slope	4	83.74	1.19	1.4%	0.5% to 5.0%					W5206			588.83
W5203	W5210	Landing/Turning Space	4	5.00	0.03	0.6%	0.1% to 2.0%					W5207			589.46
W5204	W5205	Ramp Running Slope	6	10.00	-0.63	-6.3%	0.5% to 8.3%					W5208			589.54
W5204	W5207	Landing/Turning Space	4	5.00	0.02	0.4%	0.1% to 2.0%					W5209			589.52
W5204	W5209	Landing/Turning Space	4	5.00	0.08	1.6%	0.1% to 2.0%	Yes				W5210			588.28
W5205	W5206	Crosswalk Cross Slope - No Yield Condition	6	5.00	0.02	0.4%	0.0% to 5.0%					W5211			588.21
W5206	W5207	Ramp Running Slope	6	10.00	0.63	6.3%	0.5% to 8.3%					W5212			588.48
W5207	W5208	Landing/Turning Space	4	5.00	0.08	1.6%	0.1% to 2.0%	Yes				W5213			588.43
W5208	W5209	Landing/Turning Space	4	5.00	-0.02	-0.4%	0.1% to 2.0%								
W5209	W5210	Sidewalk Running Slope	4	83.74	-1.24	-1.5%	0.5% to 5.0%								
W5210	W5211	Landing/Turning Space	4	5.00	-0.07	-1.4%	0.1% to 2.0%								
W5211	W5212	Ramp Running Slope	6	5.00	0.27	5.4%	0.5% to 8.3%								
W5212	W5213	Ramp Running Slope	6	0.86	-0.05	-5.8%	0.5% to 8.3%								
W5301	W5302	Crosswalk Cross Slope - Yield Condition	6	5.07	0.01	0.2%	0.0% to 2.0%					W5301			587.75
W5301	W5303	Ramp Cross Slope	6	5.00	0.02	0.4%	0.1% to 2.0%					W5302			587.76
W5301	W5307	Ramp Running Slope	6	5.00	0.33	6.6%	0.5% to 8.3%					W5303			587.77
W5302	W5303	Ramp Running Slope	6	0.85	0.01	1.2%	0.5% to 8.3%					W5304			588.10
W5303	W5304	Ramp Running Slope	6	5.00	0.33	6.6%	0.5% to 8.3%					W5305			588.17
W5304	W5305	Landing/Turning Space	4	5.00	0.07	1.4%	0.1% to 2.0%					W5306			588.15
W5304	W5307	Landing/Turning Space	4	5.00	-0.02	-0.4%	0.1% to 2.0%					W5307			588.08
W5305	W5306	Landing/Turning Space	4	5.00	-0.02	-0.4%	0.1% to 2.0%								
W5306	W5307	Landing/Turning Space	4	5.00	-0.07	-1.4%	0.1% to 2.0%								
W5501	W5502	Landing/Turning Space	4	5.00	0.02	0.4%	0.1% to 2.0%					W5501			588.81
W5501	W5506	Landing/Turning Space	4	3.55	0.02	0.6%	0.1% to 2.0%					W5502			588.83
W5502	W5503	Landing/Turning Space	4	4.06	0.02	0.5%	0.1% to 2.0%					W5503			588.85
W5503	W5504	Landing/Turning Space	4	5.19	-0.02	-0.4%	0.1% to 2.0%					W5504			588.83
W5504	W5505	Landing/Turning Space	4	5.00	-0.02	-0.4%	0.1% to 2.0%					W5505			588.81
W5505	W5506	Landing/Turning Space	4	5.68	0.02	0.4%	0.1% to 2.0%					W5506			588.83
W6101	W6102	Ramp Running Slope	6	8.00	0.57	7.1%	0.5% to 8.3%					W6101			588.48
W6101	W6108	Landing/Turning Space	4	5.00	-0.02	-0.4%	0.1% to 2.0%					W6102			589.05
W6101	W6104	Landing/Turning Space	4	8.00	0.14	1.7%	0.1% to 2.0%	Yes				W6103			589.15
W6102	W6103	Ramp Cross Slope	6	8.00	0.10	1.3%	0.1% to 2.0%					W6104			588.62
W6103	W6104	Ramp Running Slope	6	8.00	-0.53	-6.6%	0.5% to 8.3%					W6105			588.56
W6104	W6105	Landing/Turning Space	4	5.00	-0.06	-1.2%	0.1% to 2.0%					W6106			589.06
W6105	W6106	Ramp Running Slope	6	8.00	0.50	6.3%	0.5% to 8.3%					W6107			588.94
W6105	W6108	Landing/Turning Space	4	8.00	-0.10	-1.2%	0.1% to 2.0%					W6108			588.46
W6106	W6107	Ramp Cross Slope	6	8.00	-0.12	-1.5%	0.1% to 2.0%								
W6107	W6108	Ramp Running Slope	6	8.00	-0.48	-6.0%	0.5% to 8.3%								
W6201	W6202	Crosswalk Cross Slope - Yield Condition	6	5.00	-0.03	-0.6%	0.0% to 2.0%					W6201			588.60
W6201	W6213	Ramp Running Slope	6	9.28	0.58	6.2%	0.5% to 8.3%					W6202			588.57
W6202	W6203	Ramp Running Slope	6	9.00	0.57	6.3%	0.5% to 8.3%					W6203			589.14
W6203	W6204	Landing/Turning Space	4	5.00	0.08	1.6%	0.1% to 2.0%	Yes				W6204			589.22
W6203	W6213	Landing/Turning Space	4	5.00	0.04	0.8%	0.1% to 2.0%					W6205			589.26
W6204	W6205	Landing/Turning Space	4	5.00	0.04	0.8%	0.1% to 2.0%					W6206			589.02
W6205	W6206	Sidewalk Running Slope	4	35.00	-0.24	-0.7%	0.5% to 5.0%					W6207			589.00
W6205	W6213	Landing/Turning Space	4	5.00	-0.08	-1.6%	0.1% to 2.0%	Yes				W6208			588.93
W6206	W6207	Landing/Turning Space	4	5.00	-0.02	-0.4%	0.1% to 2.0%					W6209			588.34
W6206	W6212	Landing/Turning Space	4	5.00	-0.08	-1.6%	0.1% to 2.0%	Yes				W6210			588.28
W6207	W6208	Landing/Turning Space	4	5.00	-0.07	-1.4%	0.1% to 2.0%					W6211			588.36
W6208	W6209	Ramp Running Slope	6	8.24	-0.59	-7.2%	0.5% to 8.3%					W6212			588.94
W6208	W6212	Landing/Turning Space	4	5.00	0.01	0.2%	0.1% to 2.0%					W6213			589.18
W6209	W6210	Ramp Running Slope	6	0.87	-0.06	-6.9%	0.5% to 8.3%								
W6210	W6211	Crosswalk Cross Slope - No Yield Condition	6	5.08	0.08	1.6%	0.0% to 5.0%								
W6211	W6212	Ramp Running Slope	6	9.16	0.58	6.3%	0.5% to 8.3%								
W6212	W6213	Sidewalk Running Slope	4	38.50	0.24	0.6%	0.5% to 5.0%								

SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb
(1) Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.
(2) Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk (2)	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant? (1)	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
				FT	FT	%	Pos. or Neg.		%			Point	Station	Offset	Elevation
W6301	W6302	Ramp Running Slope	6	8.80	0.55	6.2%	0.5% to 8.3%					W6301			587.75
W6301	W6306	Ramp Cross Slope	6	10.00	-0.05	-0.5%	0.1% to 2.0%					W6302			588.30
W6301	W6307	Crosswalk Cross Slope - No Yield Condition	6	12.19	-0.17	-1.4%	0.0% to 5.0%					W6303			588.45
W6302	W6303	Landing/Turning Space	4	10.00	0.15	1.5%	0.1% to 2.0%					W6304			588.40
W6302	W6305	Landing/Turning Space	4	10.00	-0.05	-0.5%	0.1% to 2.0%					W6305			588.25
W6303	W6304	Landing/Turning Space	4	10.00	-0.05	-0.5%	0.1% to 2.0%					W6306			587.70
W6304	W6305	Landing/Turning Space	4	10.00	-0.15	-1.5%	0.1% to 2.0%					W6307			587.58
W6305	W6306	Ramp Running Slope	6	8.80	-0.55	-6.2%	0.5% to 8.3%								
W6306	W6307	Ramp Running Slope	6	13.78	-0.12	-0.9%	0.5% to 8.3%								
W6401	W6402	Crosswalk Cross Slope - Yield Condition	6	10.08	0.15	1.5%	0.0% to 2.0%					W6401			587.76
W6401	W6403	Ramp Cross Slope	6	10.00	0.16	1.6%	0.1% to 2.0%	Yes				W6402			587.91
W6401	W6407	Ramp Running Slope	6	5.18	0.33	6.4%	0.5% to 8.3%					W6403			587.92
W6402	W6403	Ramp Running Slope	6	1.24	0.01	0.8%	0.5% to 8.3%					W6404			588.05
W6403	W6404	Ramp Running Slope	6	2.00	0.13	6.5%	0.5% to 8.3%					W6405			588.12
W6404	W6405	Landing/Turning Space	4	5.00	0.07	1.4%	0.1% to 2.0%					W6406			588.17
W6404	W6407	Landing/Turning Space	4	10.09	0.04	0.4%	0.1% to 2.0%					W6407			588.09
W6405	W6406	Landing/Turning Space	4	10.00	0.05	0.5%	0.1% to 2.0%								
W6406	W6407	Landing/Turning Space	4	5.00	-0.08	-1.6%	0.1% to 2.0%	Yes							
W6501	W6502	Landing/Turning Space	4	10.00	-0.15	-1.5%	0.1% to 2.0%					W6501			587.92
W6501	W6504	Landing/Turning Space	4	6.45	0.05	0.8%	0.1% to 2.0%					W6502			587.77
W6502	W6503	Landing/Turning Space	4	6.01	0.05	0.8%	0.1% to 2.0%					W6503			587.82
W6503	W6504	Landing/Turning Space	4	10.00	0.15	1.5%	0.1% to 2.0%					W6504			587.97
W6601	W6602	Landing/Turning Space	4	4.09	-0.13	-3.2%	0.1% to 4.2%					W6601			589.05
W6601	W6606	Landing/Turning Space	4	5.00	-0.02	-0.4%	0.1% to 2.0%					W6602			588.92
W6602	W6603	Landing/Turning Space	4	4.08	-0.07	-1.7%	0.1% to 2.0%	Yes				W6603			588.85
W6603	W6604	Landing/Turning Space	4	5.00	-0.02	-0.4%	0.1% to 2.0%					W6604			588.83
W6604	W6605	Landing/Turning Space	4	3.11	0.10	3.2%	0.1% to 4.2%					W6605			588.93
W6605	W6606	Landing/Turning Space	4	3.40	0.10	2.9%	0.1% to 3.9%					W6606			589.03
W6701	W6702	Landing/Turning Space	4	5.09	-0.07	-1.4%	0.1% to 2.0%					W6701			588.67
W6701	W6706	Landing/Turning Space	4	3.40	-0.05	-1.5%	0.1% to 2.0%					W6702			588.60
W6702	W6703	Landing/Turning Space	4	3.15	-0.05	-1.6%	0.1% to 2.0%	Yes				W6703			588.55
W6703	W6704	Landing/Turning Space	4	3.22	-0.05	-1.6%	0.1% to 2.0%	Yes				W6704			588.50
W6704	W6705	Landing/Turning Space	4	5.02	0.08	1.6%	0.1% to 2.0%	Yes				W6705			588.58
W6705	W6706	Landing/Turning Space	4	4.00	0.04	1.0%	0.1% to 2.0%					W6706			588.62
W7201	W7202	Landing/Turning Space	4	3.05	0.02	0.7%	0.1% to 2.0%					W7201			587.83
W7201	W7206	Crosswalk Cross Slope - Yield Condition	6	7.31	-0.07	-1.0%	0.0% to 2.0%					W7202			587.85
W7202	W7203	Ramp Running Slope	6	5.00	0.23	4.6%	0.5% to 8.3%					W7203			588.08
W7202	W7205	Ramp Cross Slope	6	4.00	-0.04	-1.0%	0.1% to 2.0%					W7204			588.06
W7203	W7204	Ramp Cross Slope	6	4.00	-0.02	-0.5%	0.1% to 2.0%					W7205			587.81
W7204	W7205	Ramp Running Slope	6	5.00	-0.25	-5.0%	0.5% to 8.3%					W7206			587.76
W7205	W7206	Landing/Turning Space	4	9.20	-0.05	-0.5%	0.1% to 2.0%								
W7301	W7302	Crosswalk Cross Slope - Yield Condition	6	8.53	-0.04	-0.5%	0.0% to 2.0%					W7301			587.80
W7301	W7312	Landing/Turning Space	4	5.00	0.03	0.6%	0.1% to 2.0%					W7302			587.76
W7302	W7303	Landing/Turning Space	4	11.92	0.10	0.8%	0.1% to 2.0%					W7303			587.86
W7303	W7304	Ramp Running Slope	6	5.00	0.32	6.4%	0.5% to 8.3%					W7304			588.18
W7303	W7312	Landing/Turning Space	4	5.00	-0.03	-0.6%	0.1% to 2.0%					W7305			588.31
W7304	W7305	Sidewalk Running Slope	4	18.98	0.13	0.7%	0.5% to 5.0%					W7306			588.37
W7304	W7311	Ramp Cross Slope	6	5.00	-0.07	-1.4%	0.1% to 2.0%					W7307			588.29
W7305	W7306	Landing/Turning Space	4	5.00	0.06	1.2%	0.1% to 2.0%					W7308			588.17
W7305	W7310	Landing/Turning Space	4	5.00	-0.08	-1.6%	0.1% to 2.0%	Yes				W7309			588.08
W7306	W7307	Landing/Turning Space	4	5.00	-0.08	-1.6%	0.1% to 2.0%	Yes				W7310			588.23
W7307	W7308	Ramp Running Slope	6	2.00	-0.12	-6.0%	0.5% to 8.3%					W7311			588.11
W7307	W7310	Landing/Turning Space	4	5.00	-0.06	-1.2%	0.1% to 2.0%					W7312			587.83
W7308	W7309	Ramp Cross Slope	6	5.00	-0.09	-1.8%	0.1% to 2.0%	Yes							
W7309	W7310	Ramp Running Slope	6	2.00	0.15	7.5%	0.5% to 8.3%	Yes							
W7310	W7311	Sidewalk Running Slope	4	20.52	-0.12	-0.6%	0.5% to 5.0%								
W7311	W7312	Ramp Running Slope	6	5.00	-0.28	-5.6%	0.5% to 8.3%								
W8101	W8102	Landing/Turning Space	4	30.81	0.15	0.5%	0.1% to 2.0%					W8101			594.02
W8101	W8104	Landing/Turning Space	4	20.24	0.20	1.0%	0.1% to 2.0%					W8102			594.17
W8102	W8103	Landing/Turning Space	4	10.00	0.12	1.2%	0.1% to 2.0%					W8103			594.29
W8103	W8104	Landing/Turning Space	4	13.22	-0.07	-0.5%	0.1% to 2.0%					W8104			594.22

SIDEWALK COMPLIANCE

See S Sheets

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(2) Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk (2)	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant? (1)	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
				FT	FT	%	Pos. or Neg.		%			Point	Station	Offset	Elevation
W8401	W8402	Landing/Turning Space	4	16.32	0.20	1.2%	0.1% to 2.0%					W8401			593.50
W8401	W8404	Landing/Turning Space	4	12.49	0.06	0.5%	0.1% to 2.0%					W8402			593.70
W8402	W8403	Landing/Turning Space	4	10.00	0.05	0.5%	0.1% to 2.0%					W8403			593.75
W8403	W8404	Landing/Turning Space	4	25.43	-0.19	-0.7%	0.1% to 2.0%					W8404			593.56
W9101	W9102	Landing/Turning Space	4	15.52	0.08	0.5%	0.1% to 2.0%					W9101			601.86
W9101	W9104	Landing/Turning Space	4	11.43	0.18	1.6%	0.1% to 2.0%	Yes				W9102			601.94
W9102	W9103	Landing/Turning Space	4	10.00	0.15	1.5%	0.1% to 2.0%					W9103			602.09
W9103	W9104	Landing/Turning Space	4	10.00	-0.05	-0.5%	0.1% to 2.0%					W9104			602.04
W9201	W9202	Ramp Running Slope	6	10.00	0.63	6.3%	0.5% to 8.3%					W9201			602.31
W9201	W9206	Ramp Cross Slope	6	5.00	-0.01	-0.2%	0.1% to 2.0%					W9202			602.94
W9201	W9207	Crosswalk Cross Slope - Yield Condition	6	6.05	-0.06	-1.0%	0.0% to 2.0%					W9203			603.02
W9202	W9203	Landing/Turning Space	4	5.00	0.08	1.6%	0.1% to 2.0%	Yes				W9204			603.00
W9202	W9205	Landing/Turning Space	4	5.00	-0.01	-0.2%	0.1% to 2.0%					W9205			602.93
W9203	W9204	Landing/Turning Space	4	5.00	-0.02	-0.4%	0.1% to 2.0%					W9206			602.30
W9204	W9205	Landing/Turning Space	4	5.00	-0.07	-1.4%	0.1% to 2.0%					W9207			602.25
W9205	W9206	Ramp Running Slope	6	10.00	-0.63	-6.3%	0.5% to 8.3%								
W9206	W9207	Ramp Running Slope	6	3.55	-0.05	-1.4%	0.5% to 8.3%								
W9301	W9302	Crosswalk Cross Slope - Yield Condition	6	5.10	0.03	0.6%	0.0% to 2.0%					W9301			601.73
W9301	W9303	Ramp Cross Slope	6	5.00	0.04	0.8%	0.1% to 2.0%					W9302			601.76
W9301	W9307	Ramp Running Slope	6	7.20	0.45	6.2%	0.5% to 8.3%					W9303			601.77
W9302	W9303	Ramp Running Slope	6	0.70	0.01	1.4%	0.5% to 8.3%					W9304			602.22
W9303	W9304	Ramp Running Slope	6	7.20	0.45	6.3%	0.5% to 8.3%					W9305			602.29
W9304	W9305	Landing/Turning Space	4	5.00	0.07	1.4%	0.1% to 2.0%					W9306			602.26
W9304	W9307	Landing/Turning Space	4	5.00	-0.04	-0.8%	0.1% to 2.0%					W9307			602.18
W9305	W9306	Landing/Turning Space	4	5.00	-0.03	-0.6%	0.1% to 2.0%								
W9306	W9307	Landing/Turning Space	4	5.00	-0.08	-1.6%	0.1% to 2.0%	Yes							
W9401	W9402	Landing/Turning Space	4	15.35	-0.24	-1.6%	0.1% to 2.0%	Yes				W9401			600.71
W9401	W9404	Landing/Turning Space	4	21.64	0.05	0.2%	0.1% to 2.0%					W9402			600.47
W9402	W9403	Landing/Turning Space	4	10.00	0.10	1.0%	0.1% to 2.0%					W9403			600.57
W9403	W9404	Landing/Turning Space	4	10.00	0.19	1.9%	0.1% to 2.0%	Yes				W9404			600.76
W10301	W10302	Crosswalk Cross Slope - Yield Condition	6	5.00	0.10	2.0%	0.0% to 2.0%					W10301			613.91
W10301	W10308	Ramp Running Slope	6	10.00	0.72	7.2%	0.5% to 8.3%					W10302			614.01
W10302	W10303	Ramp Running Slope	6	10.00	0.63	6.3%	0.5% to 8.3%					W10303			614.64
W10303	W10304	Sidewalk Running Slope	4	13.94	-0.25	-1.8%	0.5% to 5.0%					W10304			614.39
W10303	W10306	Landing/Turning Space	4	5.00	0.08	1.6%	0.1% to 2.0%	Yes				W10305			614.48
W10303	W10308	Landing/Turning Space	4	5.00	-0.01	-0.2%	0.1% to 2.0%					W10306			614.72
W10304	W10305	Sidewalk Cross Slope	4	5.00	0.09	1.8%	0.5% to 2.0%	Yes				W10307			614.70
W10305	W10306	Sidewalk Running Slope	4	11.52	0.24	2.1%	0.5% to 5.0%					W10308			614.63
W10306	W10307	Landing/Turning Space	4	5.00	-0.02	-0.4%	0.1% to 2.0%								
W10307	W10308	Landing/Turning Space	4	5.00	-0.07	-1.4%	0.1% to 2.0%								
W10401	W10402	Ramp Running Slope	6	8.00	0.50	6.3%	0.5% to 8.3%					W10401			613.91
W10401	W10404	Landing/Turning Space	4	8.00	0.12	1.5%	0.1% to 2.0%					W10402			614.41
W10401	W10411	Landing/Turning Space	4	5.00	0.09	1.8%	0.1% to 2.0%	Yes				W10403			614.53
W10402	W10403	Ramp Running Slope	6	8.00	0.12	1.5%	0.5% to 8.3%					W10404			614.03
W10403	W10404	Ramp Running Slope	6	8.00	-0.50	-6.3%	0.5% to 8.3%					W10405			614.01
W10404	W10405	Landing/Turning Space	4	3.48	-0.02	-0.6%	0.1% to 2.0%					W10406			614.10
W10405	W10406	Sidewalk Running Slope	4	5.91	0.09	1.5%	0.5% to 5.0%					W10407			614.13
W10405	W10408	Landing/Turning Space	4	5.00	0.03	0.6%	0.1% to 2.0%					W10408			614.04
W10406	W10407	Sidewalk Cross Slope	4	5.00	0.03	0.6%	0.5% to 2.0%					W10409			614.32
W10407	W10408	Sidewalk Running Slope	4	5.91	-0.09	-1.5%	0.5% to 5.0%					W10410			614.28
W10408	W10409	Ramp Running Slope	6	4.52	0.28	6.2%	0.5% to 8.3%					W10411			614.00
W10409	W10410	Ramp Cross Slope	6	8.00	-0.04	-0.5%	0.1% to 2.0%								
W10410	W10411	Ramp Running Slope	6	8.00	-0.28	-3.5%	0.5% to 8.3%								
W11201	W11202	Landing/Turning Space	4	4.18	0.02	0.5%	0.1% to 2.0%					W11201			596.60
W11201	W11211	Landing/Turning Space	4	6.40	-0.10	-1.6%	0.1% to 2.0%	Yes				W11202			596.62
W11202	W11203	Ramp Running Slope	6	4.00	0.25	6.3%	0.5% to 8.3%					W11203			596.87
W11202	W11205	Landing/Turning Space	4	4.00	0.02	0.5%	0.1% to 2.0%					W11204			596.89
W11203	W11204	Ramp Cross Slope	6	4.00	0.02	0.5%	0.1% to 2.0%					W11205			596.64
W11204	W11205	Ramp Running Slope	6	4.00	-0.25	-6.3%	0.5% to 8.3%					W11206			596.61
W11205	W11206	Landing/Turning Space	4	5.66	-0.03	-0.5%	0.1% to 2.0%					W11207			596.86
W11206	W11207	Ramp Running Slope	6	4.00	0.25	6.3%	0.5% to 8.3%					W11208			596.84
W11206	W11209	Landing/Turning Space	4	4.00	-0.03	-0.7%	0.1% to 2.0%					W11209			596.58
W11207	W11208	Ramp Cross Slope	6	4.00	-0.02	-0.5%	0.1% to 2.0%					W11210			596.52

SIDEWALK COMPLIANCE

See S Sheets

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Point to Point		Sidewalk Designation	_" PCC Sidewalk (2)	Distance* FT	Δ Elevation FT	Slope %	Acceptable Constructed Range Pos. or Neg.	Staking Required on this Quadrant? (1)	Measured Slope %	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES Point	Station	Offset	Elevation
W11208	W11209	Ramp Running Slope	6	4.00	-0.26	-6.5%	0.5% to 8.3%					W11211			596.50
W11209	W11210	Landing/Turning Space	4	3.19	-0.06	-1.9%	0.1% to 2.0%	Yes							
W11210	W11211	Landing/Turning Space	4	1.22	-0.02	-1.6%	0.1% to 2.0%	Yes							
W11301	W11302	Crosswalk Cross Slope - Yield Condition	6	6.15	0.12	2.0%	0.0% to 2.0%					W11301			593.27
W11301	W11303	Ramp Cross Slope	6	4.00	0.02	0.5%	0.1% to 2.0%					W11302			593.39
W11301	W11307	Ramp Running Slope	6	4.75	0.30	6.3%	0.5% to 8.3%					W11303			593.29
W11302	W11303	Ramp Running Slope	6	4.67	-0.10	-2.1%	0.5% to 8.3%					W11304			593.59
W11303	W11304	Ramp Running Slope	6	4.75	0.30	6.3%	0.5% to 8.3%					W11305			593.65
W11304	W11305	Landing/Turning Space	4	4.00	0.06	1.5%	0.1% to 2.0%					W11306			593.63
W11304	W11307	Landing/Turning Space	4	4.00	-0.02	-0.5%	0.1% to 2.0%					W11307			593.57
W11305	W11306	Landing/Turning Space	4	4.00	-0.02	-0.5%	0.1% to 2.0%								
W11306	W11307	Landing/Turning Space	4	4.00	-0.06	-1.5%	0.1% to 2.0%								
W12101	W12102	Crosswalk Cross Slope - Yield Condition	6	5.01	-0.09	-1.8%	0.0% to 2.0%					W12101			610.00
W12101	W12103	Ramp Cross Slope	6	5.00	-0.08	-1.6%	0.1% to 2.0%	Yes				W12102			609.91
W12101	W12107	Ramp Running Slope	6	5.05	0.32	6.3%	0.5% to 8.3%					W12103			609.92
W12102	W12103	Ramp Running Slope	6	0.32	0.01	3.1%	0.5% to 8.3%					W12104			610.24
W12103	W12104	Ramp Running Slope	6	5.05	0.32	6.3%	0.5% to 8.3%					W12105			610.32
W12104	W12105	Landing/Turning Space	4	5.00	0.08	1.6%	0.1% to 2.0%	Yes				W12106			610.40
W12104	W12107	Landing/Turning Space	4	5.00	0.08	1.6%	0.1% to 2.0%	Yes				W12107			610.32
W12105	W12106	Landing/Turning Space	4	5.00	0.08	1.6%	0.1% to 2.0%	Yes							
W12106	W12107	Landing/Turning Space	4	5.00	-0.08	-1.6%	0.1% to 2.0%	Yes							
W12201	W12202	Crosswalk Cross Slope - Yield Condition	6	5.01	0.05	1.0%	0.0% to 2.0%					W12201			610.93
W12201	W12203	Ramp Cross Slope	6	5.00	0.06	1.1%	0.1% to 2.0%					W12202			610.98
W12201	W12207	Ramp Running Slope	6	5.00	0.32	6.4%	0.5% to 8.3%					W12203			610.99
W12202	W12203	Ramp Running Slope	6	0.29	0.01	2.1%	0.5% to 8.3%					W12204			611.31
W12203	W12204	Ramp Running Slope	6	5.00	0.32	6.5%	0.5% to 8.3%					W12205			611.39
W12204	W12207	Landing/Turning Space	4	5.00	-0.06	-1.2%	0.1% to 2.0%					W12206			611.33
W12204	W12205	Landing/Turning Space	4	5.00	0.08	1.6%	0.1% to 2.0%	Yes				W12207			611.25
W12205	W12206	Landing/Turning Space	4	5.00	-0.06	-1.2%	0.1% to 2.0%								
W12206	W12207	Landing/Turning Space	4	5.00	-0.08	-1.6%	0.1% to 2.0%	Yes							
W12301	W12302	Crosswalk Cross Slope - Yield Condition	6	6.82	0.11	1.6%	0.0% to 2.0%					W12301			610.94
W12301	W12307	Ramp Running Slope	6	4.60	0.13	2.8%	0.5% to 8.3%					W12302			611.05
W12302	W12303	Ramp Running Slope	6	4.08	0.26	6.4%	0.5% to 8.3%					W12303			611.31
W12302	W12307	Ramp Cross Slope	6	5.00	0.02	0.4%	0.1% to 2.0%					W12304			611.39
W12303	W12304	Landing/Turning Space	4	5.05	0.08	1.6%	0.1% to 2.0%	Yes				W12305			611.36
W12303	W12306	Landing/Turning Space	4	5.05	-0.03	-0.6%	0.1% to 2.0%					W12306			611.28
W12304	W12305	Landing/Turning Space	4	5.05	-0.03	-0.6%	0.1% to 2.0%					W12307			611.07
W12305	W12306	Landing/Turning Space	4	5.05	-0.08	-1.6%	0.1% to 2.0%	Yes							
W12306	W12307	Ramp Running Slope	6	3.28	-0.21	-6.4%	0.5% to 8.3%								
W12401	W12402	Ramp Running Slope	6	4.61	-0.05	-1.1%	0.5% to 8.3%					W12401			608.13
W12401	W12407	Crosswalk Cross Slope - Yield Condition	6	6.82	-0.10	-1.5%	0.0% to 2.0%					W12402			608.08
W12402	W12403	Ramp Running Slope	6	4.93	0.31	6.3%	0.5% to 8.3%					W12403			608.39
W12402	W12407	Ramp Cross Slope	6	5.00	-0.05	-1.0%	0.1% to 2.0%					W12404			608.46
W12403	W12404	Landing/Turning Space	4	5.00	0.07	1.4%	0.1% to 2.0%					W12405			608.43
W12403	W12406	Landing/Turning Space	4	5.00	-0.04	-0.8%	0.1% to 2.0%					W12406			608.35
W12404	W12405	Ramp Running Slope	6	5.00	-0.03	-0.6%	0.5% to 8.3%					W12407			608.03
W12405	W12406	Landing/Turning Space	4	5.00	-0.08	-1.6%	0.1% to 2.0%	Yes							
W12406	W12407	Ramp Running Slope	6	5.00	-0.32	-6.4%	0.5% to 8.3%								
W13101	W13102	Ramp Running Slope	6	5.00	0.32	6.4%	0.5% to 8.3%					W13101			593.94
W13101	W13106	Crosswalk Cross Slope - Yield Condition	6	5.00	0.10	2.0%	0.0% to 2.0%					W13102			594.26
W13102	W13103	Landing/Turning Space	4	5.00	0.08	1.6%	0.1% to 2.0%	Yes				W13103			594.34
W13102	W13105	Ramp Cross Slope	6	5.00	0.09	1.8%	0.1% to 2.0%	Yes				W13104			594.37
W13103	W13104	Landing/Turning Space	4	5.00	0.03	0.6%	0.1% to 2.0%					W13105			594.35
W13104	W13105	Landing/Turning Space	4	5.00	-0.02	-0.4%	0.1% to 2.0%					W13106			594.04
W13105	W13106	Ramp Running Slope	6	5.00	-0.31	-6.2%	0.5% to 8.3%								
W13201	W13202	Crosswalk Cross Slope - Yield Condition	6	5.97	0.11	1.8%	0.0% to 2.0%					W13201			593.89
W13201	W13203	Ramp Cross Slope	6	5.00	0.09	1.8%	0.1% to 2.0%	Yes				W13202			594.00
W13201	W13210	Ramp Running Slope	6	5.12	0.21	4.1%	0.5% to 8.3%					W13203			593.98
W13202	W13203	Ramp Running Slope	6	3.26	-0.02	-0.6%	0.5% to 8.3%					W13204			594.08
W13203	W13204	Ramp Running Slope	6	5.13	0.10	1.9%	0.5% to 8.3%					W13205			594.17
W13204	W13205	Landing/Turning Space	4	5.00	0.09	1.8%	0.1% to 2.0%	Yes				W13206			594.09
W13204	W13210	Landing/Turning Space	4	5.00	0.02	0.4%	0.1% to 2.0%					W13207			593.77
W13205	W13206	Landing/Turning Space	4	5.00	-0.08	-1.6%	0.1% to 2.0%	Yes				W13208			593.67

SIDEWALK COMPLIANCE

See S Sheets

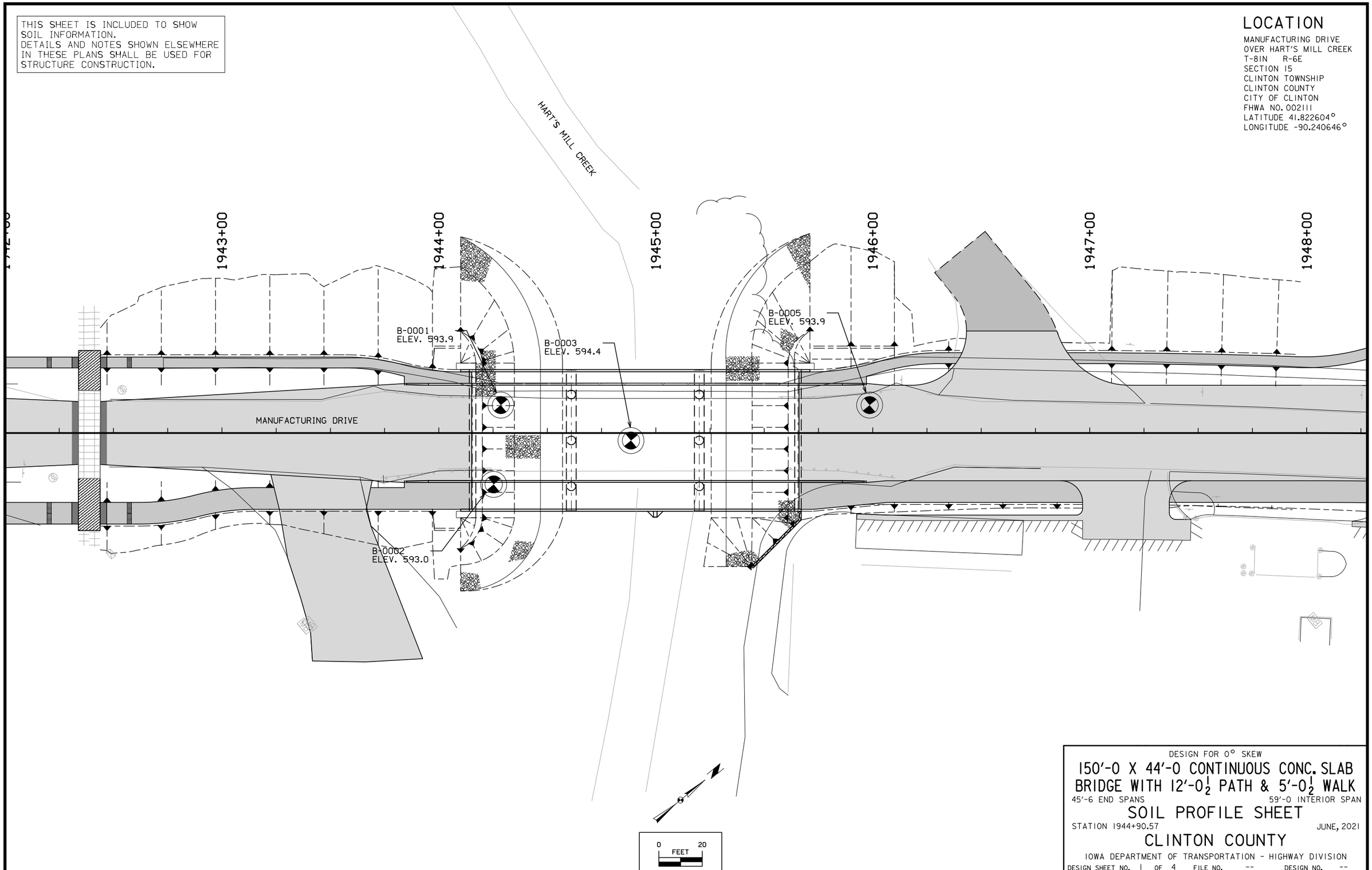
* Does not include curb
(1) Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.
(2) Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk (2)	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant? (1)	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
				FT	FT	%	Pos. or Neg.		%			Point	Station	Offset	Elevation
W13206	W13207	Ramp Running Slope	6	5.00	-0.32	-6.4%	0.5% to 8.3%					W13209			593.76
W13206	W13210	Landing/Turning Space	4	5.00	0.01	0.2%	0.1% to 2.0%					W13210			594.10
W13207	W13208	Ramp Running Slope	6	3.10	-0.10	-3.2%	0.5% to 8.3%								
W13207	W13209	Ramp Cross Slope	6	5.00	-0.01	-0.2%	0.1% to 2.0%								
W13208	W13209	Crosswalk Cross Slope - Yield Condition	6	5.88	0.09	1.5%	0.0% to 2.0%								
W13209	W13210	Ramp Running Slope	6	5.00	0.34	6.8%	0.5% to 8.3%								
W13301	W13302	Crosswalk Cross Slope - Yield Condition	6	6.16	0.11	1.8%	0.0% to 2.0%					W13301			592.99
W13301	W13310	Ramp Running Slope	6	3.60	0.18	5.0%	0.5% to 8.3%					W13302			593.10
W13302	W13303	Ramp Running Slope	6	5.00	0.33	6.6%	0.5% to 8.3%					W13303			593.43
W13302	W13310	Ramp Cross Slope	6	4.15	0.07	1.7%	0.1% to 2.0%	Yes				W13304			593.19
W13303	W13304	Ramp Running Slope	6	4.15	-0.24	-5.8%	0.5% to 8.3%					W13305			593.25
W13303	W13307	Landing/Turning Space	4	5.00	0.09	1.8%	0.1% to 2.0%	Yes				W13306			593.27
W13303	W13309	Landing/Turning Space	4	5.00	0.09	1.8%	0.1% to 2.0%	Yes				W13307			593.52
W13304	W13305	Crosswalk Cross Slope - Yield Condition	6	5.56	0.06	1.1%	0.0% to 2.0%					W13308			593.60
W13305	W13306	Ramp Running Slope	6	2.43	0.02	0.8%	0.5% to 8.3%					W13309			593.52
W13306	W13307	Ramp Running Slope	6	5.00	0.25	5.0%	0.5% to 8.3%					W13310			593.17
W13307	W13308	Landing/Turning Space	4	5.00	0.08	1.6%	0.1% to 2.0%	Yes							
W13308	W13309	Landing/Turning Space	4	5.00	-0.08	-1.6%	0.1% to 2.0%	Yes							
W13309	W13310	Ramp Running Slope	6	5.00	-0.35	-7.0%	0.5% to 8.3%								
W13401	W13402	Ramp Running Slope	6	2.55	0.11	4.3%	0.5% to 8.3%					W13401			593.09
W13401	W13409	Crosswalk Cross Slope - Yield Condition	6	5.61	0.20	3.6%	0.0% to 4.6%					W13402			593.20
W13402	W13403	Ramp Running Slope	6	5.00	0.32	6.4%	0.5% to 8.3%					W13403			593.52
W13402	W13409	Ramp Cross Slope	6	5.00	0.09	1.8%	0.1% to 2.0%	Yes				W13404			593.60
W13403	W13404	Landing/Turning Space	4	5.00	0.08	1.6%	0.1% to 2.0%	Yes				W13405			593.85
W13403	W13408	Landing/Turning Space	4	5.00	0.09	1.8%	0.1% to 2.0%	Yes				W13406			593.88
W13404	W13405	Sidewalk Running Slope	4	10.03	0.25	2.5%	0.5% to 5.0%					W13407			593.63
W13404	W13407	Sidewalk Cross Slope	4	5.00	0.03	0.6%	0.5% to 2.0%					W13408			593.61
W13405	W13406	Sidewalk Cross Slope	4	3.79	0.03	0.8%	0.5% to 2.0%					W13409			593.29
W13406	W13407	Sidewalk Running Slope	4	10.10	-0.25	-2.5%	0.5% to 5.0%								
W13407	W13408	Landing/Turning Space	4	5.00	-0.02	-0.4%	0.1% to 2.0%								
W13408	W13409	Ramp Running Slope	6	5.00	-0.32	-6.4%	0.5% to 8.3%								
W13408	W13409	Ramp Running Slope	6	5.00	-0.32	-6.4%	0.5% to 8.3%								

THIS SHEET IS INCLUDED TO SHOW SOIL INFORMATION.
DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR STRUCTURE CONSTRUCTION.

LOCATION

MANUFACTURING DRIVE
OVER HART'S MILL CREEK
T-81N R-6E
SECTION 15
CLINTON TOWNSHIP
CLINTON COUNTY
CITY OF CLINTON
FHWA NO. 002111
LATITUDE 41.822604°
LONGITUDE -90.240646°



DESIGN FOR 0° SKEW

150'-0 X 44'-0 CONTINUOUS CONC. SLAB BRIDGE WITH 12'-0½ PATH & 5'-0½ WALK

45'-6 END SPANS 59'-0 INTERIOR SPAN

SOIL PROFILE SHEET

STATION 1944+90.57 JUNE, 2021

CLINTON COUNTY

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION

DESIGN SHEET NO. 1 OF 4 FILE NO. -- DESIGN NO. --

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER STBG-SWAP-1415(634)--SG-23	SHEET NUMBER SPS.1

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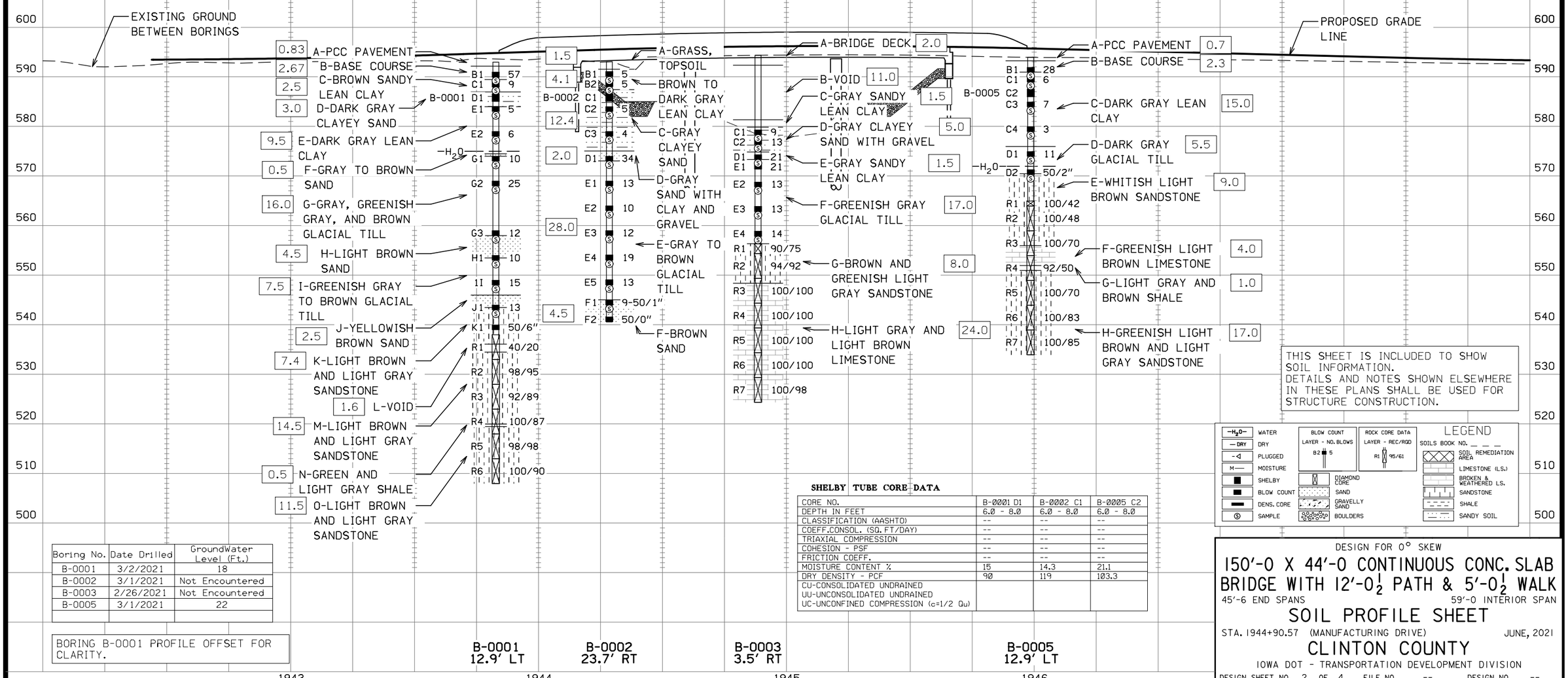
	B-0001	B-0002	B-0003	B-0005
CUT MOISTURE	10,16,25,27,25,27,17,16,17,22	18,20,29,29,15,31,23,20,21,18,21	48,15,21,17,22,20	10,32,30,33,17,18
CUT DENSITY (lb/ft³)	--,--,--,--,20,--,--,14,--,--	--,--,--,24,--,--,--,--,14,--,--,--	--,--,--,--,--,--,16	--,--,--,--,14,--,--
PLASTIC LIMIT				

ROCK CORE COMPRESSIVE STRENGTH TESTING REPORT

Sample Number	Elevation	Material Description	Unit Load (psi)	Moisture (%)	Dry Density (PCF)
B-0001 R1	538.94	LT BR/LT GR SLIGHTLY-HIGHLY WEATHERED SANDSTONE	8,600	0.3	155
B-0001 R2	530.74	LT BR/LT GR SLIGHTLY-HIGHLY WEATHERED SANDSTONE	3,658	0.4	161
B-0001 R3	526.44	LT BR/LT GR SLIGHTLY-HIGHLY WEATHERED SANDSTONE	4,084	0.5	157
B-0001 R4	521.94	LT BR/LT GR SLIGHTLY-HIGHLY WEATHERED SANDSTONE	4,784	0.3	154
B-0001 R5	516.94	LT BR/LT GR SLIGHTLY-HIGHLY WEATHERED SANDSTONE	7,411	0.3	151
B-0001 R6	511.64	LT BR/LT GR SLIGHTLY-HIGHLY WEATHERED SANDSTONE	2,634	0.2	146
B-0003 R1	555.25	BR/GRN LT GR SLIGHTLY-HIGHLY WEATHERED SANDSTONE	6,174	0.4	162
B-0003 R2	551.35	BR/GRN LT GR SLIGHTLY-HIGHLY WEATHERED SANDSTONE	4,576	0.3	159
B-0003 R3	546.05	LT GR/LT BR WEATHERED TO FRESH LIMESTONE	4,342	0.3	158
B-0003 R4	540.65	LT GR/LT BR WEATHERED TO FRESH LIMESTONE	5,187	0.3	159

ROCK CORE COMPRESSIVE STRENGTH TESTING REPORT

Sample Number	Elevation	Material Description	Unit Load (psi)	Moisture (%)	Dry Density (PCF)
B-0003 R5	537.35	LT GR/LT BR WEATHERED TO FRESH LIMESTONE	5,125	0.2	153
B-0003 R6	532.85	LT GR/LT BR WEATHERED TO FRESH LIMESTONE	3,274	0.3	161
B-0003 R7	526.05	LT GR/LT BR WEATHERED TO FRESH LIMESTONE	2,042	0.3	144
B-0005 R2	561.93	WH LT BR MODERATELY-HIGHLY WEATHERED SANDSTONE	2,208	0.2	146
B-0005 R3	556.93	WH LT BR MODERATELY-HIGHLY WEATHERED SANDSTONE	2,434	0.4	150
B-0005 R4	551.03	GRN LT BR/LT GR SLIGHTLY-HIGHLY WEATHERED SANDSTONE	1,490	0.4	147
B-0005 R5	546.63	GRN LT BR/LT GR SLIGHTLY-HIGHLY WEATHERED SANDSTONE	3,422	0.2	156
B-0005 R6	541.53	GRN LT BR/LT GR SLIGHTLY-HIGHLY WEATHERED SANDSTONE	6,430	0.3	158
B-0005 R7	537.03	GRN LT BR/LT GR SLIGHTLY-HIGHLY WEATHERED SANDSTONE	6,573	0.3	161



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LEGEND

WATER, DRY, PLUGGED, MOISTURE, SHELBY, BLOW COUNT, DENS. CORE, SAMPLE

BLOW COUNT: LAYER - NO. BLOWS (B2 5)

ROCK CORE DATA: LAYER - REC/RQD (R1 95/61)

DIAMOND CORE, SAND, GRAVELLY SAND, BOULDERS

SOILS BOOK NO. _ _ _

SOIL REMEDIATION AREA, LIMESTONE (LS.), BROKEN & WEATHERED LS., SANDSTONE, SHALE, SANDY SOIL

Boring No.	Date Drilled	GroundWater Level (Ft.)
B-0001	3/2/2021	18
B-0002	3/1/2021	Not Encountered
B-0003	2/26/2021	Not Encountered
B-0005	3/1/2021	22

BORING B-0001 PROFILE OFFSET FOR CLARITY.

SHELBY TUBE CORE DATA

CORE NO.	B-0001 D1	B-0002 C1	B-0005 C2
DEPTH IN FEET	6.0 - 8.0	6.0 - 8.0	6.0 - 8.0
CLASSIFICATION (AASHTO)	--	--	--
COEFF.CONSOL. (SQ. FT/DAY)	--	--	--
TRIAXIAL COMPRESSION	--	--	--
COHESION - PSF	--	--	--
FRICTION COEFF.	--	--	--
MOISTURE CONTENT %	15	14.3	21.1
DRY DENSITY - PCF	90	119	103.3
CU-CONSOLIDATED UNDRAINED UU-UNCONSOLIDATED UNDRAINED UC-UNCONFINED COMPRESSION (c=1/2 Qu)			

DESIGN FOR 0° SKEW

150'-0 X 44'-0 CONTINUOUS CONC. SLAB BRIDGE WITH 12'-0½ PATH & 5'-0½ WALK

45'-6 END SPANS 59'-0 INTERIOR SPAN

SOIL PROFILE SHEET

STA. 1944+90.57 (MANUFACTURING DRIVE) JUNE, 2021

CLINTON COUNTY

IOWA DOT - TRANSPORTATION DEVELOPMENT DIVISION

DESIGN SHEET NO. 2 OF 4 FILE NO. -- DESIGN NO. --

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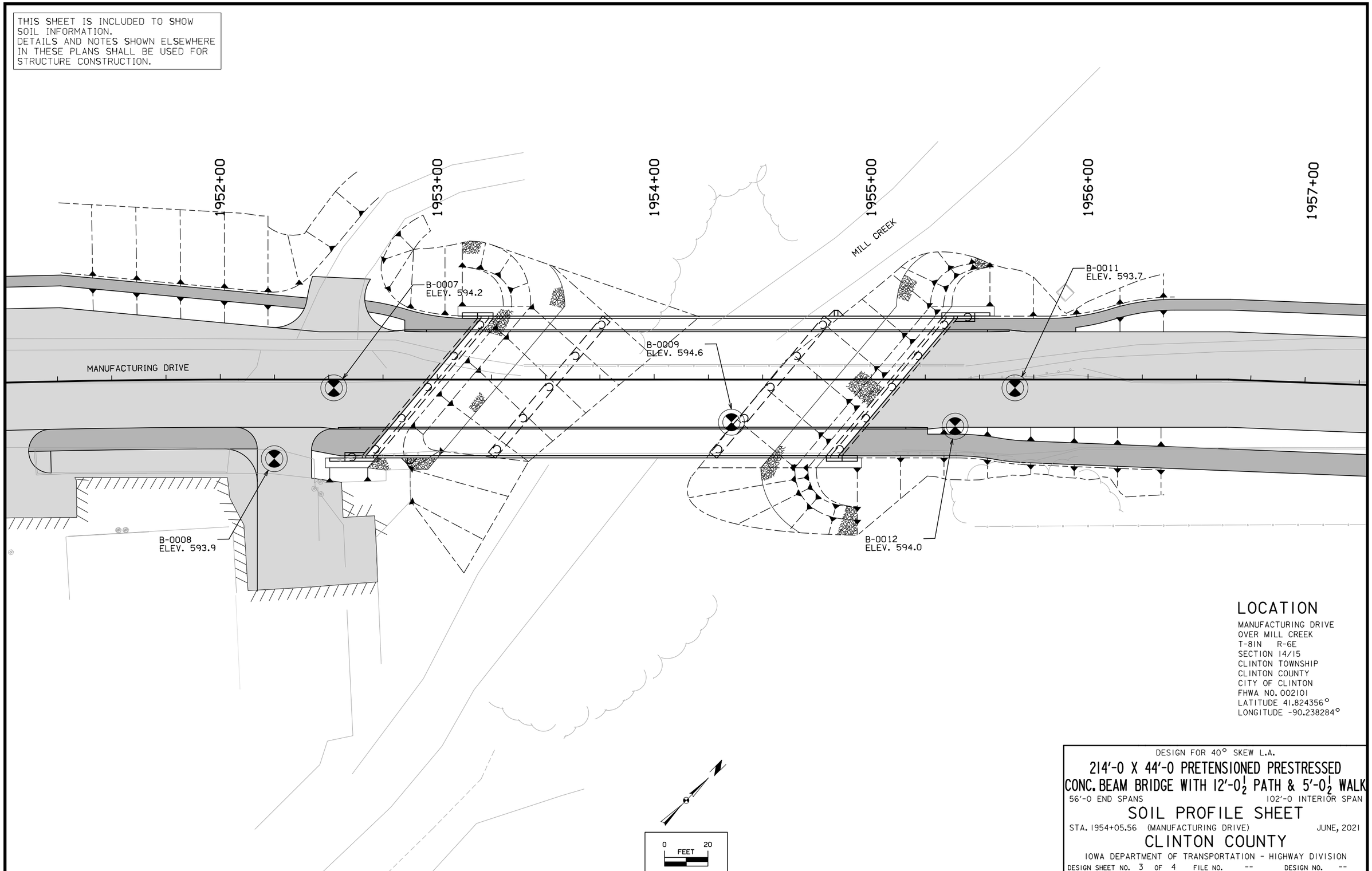

LOCATION

MANUFACTURING DRIVE
OVER MILL CREEK
T-81N R-6E
SECTION 14/15
CLINTON TOWNSHIP
CLINTON COUNTY
CITY OF CLINTON
FHWA NO. 002101
LATITUDE 41.824356°
LONGITUDE -90.238284°

DESIGN FOR 40° SKEW L.A.

214'-0 X 44'-0 PRETENSIONED PRESTRESSED CONC. BEAM BRIDGE WITH 12'-0½ PATH & 5'-0½ WALK

56'-0 END SPANS 102'-0 INTERIOR SPAN

SOIL PROFILE SHEET

STA. 1954+05.56 (MANUFACTURING DRIVE) JUNE, 2021

CLINTON COUNTY

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION

DESIGN SHEET NO. 3 OF 4 FILE NO. -- DESIGN NO. --

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER STBG-SWAP-1415(634)--SG-23	SHEET NUMBER SPS.3

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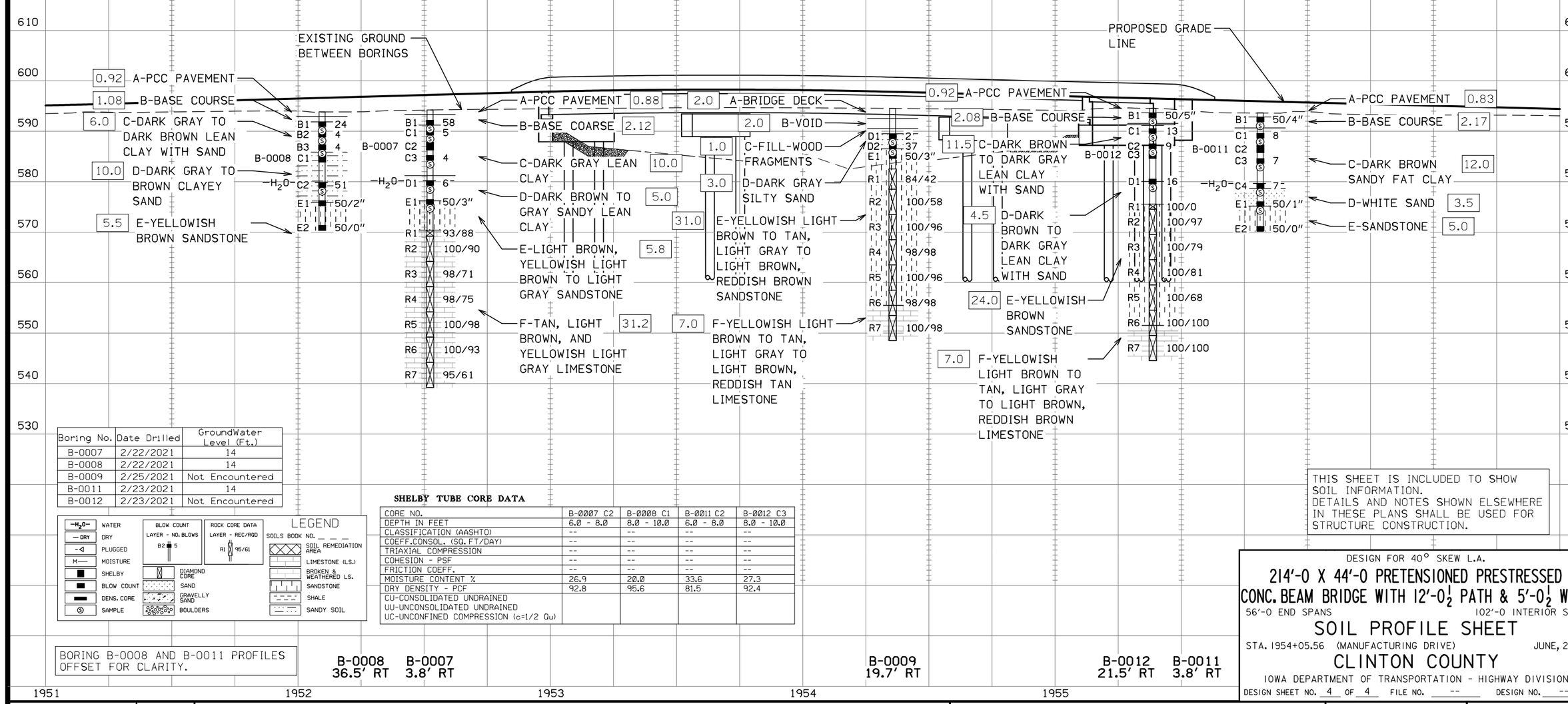
CUT MOISTURE CUT DENSITY (lb/ft³) PLASTIC LIMIT		10,13,26,16 --,--,--,-- --,--,--,--	18,32,31,33,19 --,--,--,--,-- --,--,--,--,--		17,23 --,-- --,--	7,5,34,33 --,--,--,-- --,--,23,22	10,27,27,32,16 --,--,--,--,-- --,25,--,21,--

ROCK CORE COMPRESSIVE STRENGTH TESTING REPORT

Sample Number	Elevation	Material Description	Unit Load (psi)	Moisture (%)	Dry Density (PCF)
B-0007 R2	565.25	TAN, LT BR, YLW LT GR SLIGHTLY WEATHERED-FRESH LIMESTONE	3,061	0.1	147
B-0007 R3	562.65	TAN, LT BR, YLW LT GR SLIGHTLY WEATHERED-FRESH LIMESTONE	1,637	0.1	136
B-0007 R4	557.45	TAN, LT BR, YLW LT GR SLIGHTLY WEATHERED-FRESH LIMESTONE	2,264	0.3	146
B-0007 R5	551.75	TAN, LT BR, YLW LT GR SLIGHTLY WEATHERED-FRESH LIMESTONE	1,526	0.3	141
B-0007 R6	547.25	TAN, LT BR, YLW LT GR SLIGHTLY WEATHERED-FRESH LIMESTONE	11,721	0.3	150
B-0007 R7	542.05	TAN, LT BR, YLW LT GR SLIGHTLY WEATHERED-FRESH LIMESTONE	5,745	0.2	154
B-0009 R2	575.29	YLW LT BR/TAN, LT GR/LT BR, RED BR MODERATELY-HIGHLY WEATHERED SANDSTONE	1,137	0.2	138
B-0009 R3	573.09	YLW LT BR/TAN, LT GR/LT BR, RED BR MODERATELY-HIGHLY WEATHERED SANDSTONE	1,801	0.2	147
B-0009 R4	566.39	YLW LT BR/TAN, LT GR/LT BR, RED BR MODERATELY-HIGHLY WEATHERED SANDSTONE	6,154	0.3	151
B-0009 R5	561.09	YLW LT BR/TAN, LT GR/LT BR, RED BR MODERATELY-HIGHLY WEATHERED SANDSTONE	3,012	0.3	150

ROCK CORE COMPRESSIVE STRENGTH TESTING REPORT

Sample Number	Elevation	Material Description	Unit Load (psi)	Moisture (%)	Dry Density (PCF)
B-0009 R6	556.49	YLW LT BR/TAN, LT GR/LT BR, RED BR MODERATELY-HIGHLY WEATHERED SANDSTONE	4,203	0.2	150
B-0012 R2	572.34	YLW BR MODERATELY-HIGHLY WEATHERED SANDSTONE	2,348	0.4	138
B-0012 R3	567.04	YLW BR MODERATELY-HIGHLY WEATHERED SANDSTONE	2,579	0.1	136
B-0012 R4	561.54	YLW BR MODERATELY-HIGHLY WEATHERED SANDSTONE	1,734	0.1	138
B-0012 R5	557.94	YLW BR MODERATELY-HIGHLY WEATHERED SANDSTONE	4,153	0.2	150
B-0012 R6	552.54	YLW BR MODERATELY-HIGHLY WEATHERED SANDSTONE	1,598	0.6	142
B-0012 R7	546.74	YLW LT BR/TAN, LT GR/LT BR, RED BR SLIGHTLY-MODERATELY WEATHERED SANDSTONE	10,630	0.3	152



Boring No.	Date Drilled	GroundWater Level (Ft.)
B-0007	2/22/2021	14
B-0008	2/22/2021	14
B-0009	2/25/2021	Not Encountered
B-0011	2/23/2021	14
B-0012	2/23/2021	Not Encountered

SHELBY TUBE CORE DATA

CORE NO.	B-0007 C2	B-0008 C1	B-0011 C2	B-0012 C3
DEPTH IN FEET	6.0 - 8.0	8.0 - 10.0	6.0 - 8.0	8.0 - 10.0
CLASSIFICATION (AASHTO)	--	--	--	--
COEFF.CONSOL. (SQ. FT/DAY)	--	--	--	--
TRIAXIAL COMPRESSION	--	--	--	--
COHESION - PSF	--	--	--	--
FRICTION COEFF.	--	--	--	--
MOISTURE CONTENT %	26.9	20.0	33.6	27.3
DRY DENSITY - PCF	92.8	95.6	81.5	92.4
CU-CONSOLIDATED UNDRAINED UU-UNCONSOLIDATED UNDRAINED UC-UNCONFINED COMPRESSION (c=1/2 Qu)				

BORING B-0008 AND B-0011 PROFILES OFFSET FOR CLARITY.

B-0008 36.5' RT
B-0007 3.8' RT
B-0009 19.7' RT
B-0012 21.5' RT
B-0011 3.8' RT

THIS SHEET IS INCLUDED TO SHOW SOIL INFORMATION. DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR STRUCTURE CONSTRUCTION.

DESIGN FOR 40° SKEW L.A.

214'-0 X 44'-0 PRETENSIONED PRESTRESSED CONC. BEAM BRIDGE WITH 12'-0½ PATH & 5'-0½ WALK

56'-0 END SPANS — 102'-0 INTERIOR SPAN

SOIL PROFILE SHEET

STA. 1954+05.56 (MANUFACTURING DRIVE) — JUNE, 2021

CLINTON COUNTY

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION

DESIGN SHEET NO. 4 OF 4 — FILE NO. -- — DESIGN NO. --

FILE NO.	ENGLISH	DESIGN TEAM MCCLURE	CLINTON COUNTY	PROJECT NUMBER STBG-SWAP-1415(634)--SG-23	SHEET NUMBER SPS.4

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut					Fill						Checks (EW-102)		Topsoil								
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Rock Undercut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Existing Pavement Undercut (+Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
13TH_SE																						
700+50.00																						
700+75.00	63	56	7	0	56	0	7	19	26	34	22	0	0	7	1	1	6					
701+00.00	71	63	8	0	63	0	8	19	27	35	28	0	0	8	3	4	4					
701+25.00	82	68	14	0	68	0	14	19	33	43	25	0	0	14	6	8	6					
701+50.00	94	75	19	0	75	3	19	19	41	53	22	0	0	19	10	14	5					
701+75.00	112	90	22	0	90	12	22	20	54	70	20	0	0	22	11	15	7					
702+00.00	139	112	27	0	112	24	27	19	70	91	21	0	0	27	15	21	6					
702+25.00	188	151	37	0	151	37	37	24	98	127	24	0	0	37	23	32	5					
702+50.00	328	303	25	0	303	24	25	52	101	131	172	0	0	25	16	22	3					
702+75.00	423	381	42	0	381	13	42	49	104	135	246	0	0	42	12	17	25					
703+00.00	352	273	79	0	273	26	79	21	126	164	109	0	0	79	33	46	33					
703+25.00	213	147	66	0	147	23	66	62	151	196	-49	0	0	66	35	49	17					
703+50.00	113	67	46	0	67	22	46		68	88	-21	0	0	46	18	25	21					
703+75.00	84	44	40	0	44	27	40		67	87	-43	0	0	40	13	18	22					
704+00.00	72	23	49	0	23	40	49		89	116	-93	0	0	49	19	27	22					
704+25.00	59	5	54	0	5	80	54		134	174	-169	0	0	54	22	31	23					
704+50.00	104	49	55	0	49	53	55		108	140	-91	0	0	55	13	18	37					
704+58.07	75	57	18	0	57	0	18	1	19	25	32	0	0	18	2	3	15					
705+03.13	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0					
705+25.00	129	80	49	0	80	101	49	15	165	215	-135	0	0	49	7	10	39					
705+50.00	53	1	52	0	1	201	52	14	267	347	-346	0	0	52	18	25	27					
705+75.00	46	1	45	0	1	143	45	12	200	260	-259	0	0	45	19	27	18					
706+00.00	38	2	36	0	2	81	36	12	129	168	-166	0	0	36	11	15	21					
706+25.00	39	12	27	0	12	34	27	11	72	94	-82	0	0	27	8	11	16					
706+50.00	52	33	19	0	33	10	19	13	42	55	-22	0	0	19	7	10	9					
706+75.00	65	52	13	0	52	0	13	15	28	36	16	0	0	13	2	3	10					
707+00.00	78	67	11	0	67	0	11	16	27	35	32	0	0	11	2	3	8					
707+25.00	85	71	14	0	71	1	14	13	28	36	35	0	0	14	5	7	7					
707+50.00	87	70	17	0	70	2	17	11	30	39	31	0	0	17	7	10	7					
707+75.00	89	72	17	0	72	1	17	11	29	38	34	0	0	17	7	10	7					
708+00.00	89	76	13	0	76	1	13	15	29	38	38	0	0	13	5	7	6					
708+25.00	92	79	13	0	79	2	13	15	30	39	40	0	0	13	5	7	6					
708+50.00	102	83	19	0	83	3	19	11	33	43	40	0	0	19	9	13	6					
708+75.00	106	89	17	0	89	2	17	13	32	42	47	0	0	17	9	13	4					
709+00.00	109	92	17	0	92	1	17	13	31	40	52	0	0	17	9	13	4					
709+25.00	119	98	21	0	98	0	21	11	32	42	56	0	0	21	10	14	7					
709+38.99	82	67	15	0	67	0	15	8	23	30	37	0	0	15	6	8	7					
13TH_SE																						
Totals:	4,032	3,009	1,023	0	3,009	967	1,023	553	2,543	3,306	-297	0	0	1,023	398	558	466					

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut					Fill						Checks (EW-102)		Topsoil								
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Rock Undercut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Existing Pavement Undercut (+Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
13TH_SW																						
500+49.97	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0					
500+50.00	43	32	11	0	32	0	11		11	14	18	0	0	11	1	1	10					
500+75.00	47	40	7	0	40	0	7	10	17	22	18	0	0	7	3	4	3					
501+00.00	50	42	8	0	42	2	8	10	20	26	16	0	0	8	4	6	2					
501+25.00	45	39	6	0	39	3	6	15	24	31	8	0	0	6	5	7	-1					
501+50.00	43	34	9	0	34	3	9	15	27	35	-1	0	0	9	5	7	2					
501+75.00	33	22	11	0	22	2	11	8	21	27	-5	0	0	11	5	7	4					
502+00.00	25	15	10	0	15	2	10	8	20	26	-11	0	0	10	4	6	4					
502+25.00	24	16	8	0	16	2	8	13	23	30	-14	0	0	8	3	4	4					
502+50.00	25	19	6	0	19	2	6	14	22	29	-10	0	0	6	1	1	5					
502+75.00	28	24	4	0	24	1	4	15	20	26	-2	0	0	4	1	1	3					
503+00.00	37	33	4	0	33	1	4	16	21	27	6	0	0	4	1	1	3					
503+25.00	42	34	8	0	34	0	8	12	20	26	8	0	0	8	4	6	2					
503+50.00	39	31	8	0	31	1	8	9	18	23	8	0	0	8	3	4	4					
503+75.00	40	31	9	0	31	2	9	9	20	26	5	0	0	9	3	4	5					
504+00.00	43	30	13	0	30	5	13	8	26	34	-4	0	0	13	6	8	5					
504+25.00	44	31	13	0	31	9	13	10	32	42	-11	0	0	13	7	10	3					
504+50.00	43	31	12	0	31	11	12	11	34	44	-13	0	0	12	7	10	2					
504+75.00	44	32	12	0	32	9	12	9	30	39	-7	0	0	12	6	8	4					
505+00.00	54	42	12	0	42	5	12	11	28	36	6	0	0	12	5	7	5					
505+25.00	61	50	11	0	50	3	11	12	26	34	16	0	0	11	4	6	5					
505+50.00	57	47	10	0	47	2	10	9	21	27	20	0	0	10	4	6	4					
505+75.00	55	44	11	0	44	2	11	8	21	27	17	0	0	11	5	7	4					
506+00.00	61	49	12	0	49	2	12	8	22	29	20	0	0	12	4	6	6					
506+25.00	14	11	3	0	11	0	3	2	5	7	5	0	0	3	1	1	2					
506+30.43																						
13TH_SW																						
Totals:	997	779	218	0	779	69	218	242	529	688	92	0	0	218	92	129	90					

FILE NO.	ENGLISH	DESIGN TEAM McCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER T.2

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut					Fill						Checks (EW-102)		Topsoil								
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Rock Undercut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Existing Pavement Undercut (+Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
14TH_SW																						
100+05.18																						
100+25.00	50	50	0	0	50	0			0	0	50	0	0	0	2	3	-3					
100+50.00	40	34	6	0	34	1	6	12	19	25	9	0	0	6	7	10	-4					
100+75.00	38	32	6	0	32	2	6	12	20	26	6	0	0	6	7	10	-4					
101+00.00	41	34	7	0	34	2	7	13	22	29	5	0	0	7	8	11	-4					
101+25.00	43	35	8	0	35	3	8	14	25	33	3	0	0	8	8	11	-3					
101+50.00	44	33	11	0	33	5	11	12	28	36	-3	0	0	11	8	11	0					
101+75.00	51	38	13	0	38	5	13	9	27	35	3	0	0	13	8	11	2					
102+00.00	57	43	14	0	43	4	14	9	27	35	8	0	0	14	9	13	1					
102+25.00	51	37	14	0	37	3	14	10	27	35	2	0	0	14	9	13	1					
102+50.00	42	32	10	0	32	4	10	10	24	31	1	0	0	10	7	10	0					
102+75.00	39	29	10	0	29	3	10	10	23	30	-1	0	0	10	7	10	0					
103+00.00	40	29	11	0	29	4	11	9	24	31	-2	0	0	11	8	11	0					
103+25.00	42	31	11	0	31	3	11	9	23	30	1	0	0	11	8	11	0					
103+50.00	45	34	11	0	34	3	11	12	26	34	0	0	0	11	8	11	0					
103+75.00	49	38	11	0	38	3	11	12	26	34	4	0	0	11	8	11	0					
104+00.00	60	33	27	0	33	3	27	14	44	57	-24	0	0	27	7	10	17					
104+25.00	24	24	0	0	24	3		19	22	29	-5	0	0	0	4	6	-6					
104+50.00	27	27	0	0	27	1		15	16	21	6	0	0	0	9	13	-13					
104+75.00	42	35	7	0	35	0	7	10	17	22	13	0	0	7	8	11	-4					
105+00.00	48	38	10	0	38	0	10	9	19	25	13	0	0	10	5	7	3					
105+25.00	45	36	9	0	36	1	9	9	19	25	11	0	0	9	7	10	-1					
105+50.00	44	35	9	0	35	2	9	9	20	26	9	0	0	9	9	13	-4					
105+75.00	47	35	12	0	35	2	12	9	23	30	5	0	0	12	10	14	-2					
106+00.00	45	37	8	0	37	1	8	13	22	29	8	0	0	8	7	10	-2					
106+25.00	46	38	8	0	38	0	8	13	21	27	11	0	0	8	7	10	-2					
106+50.00	55	39	16	0	39	0	16	8	24	31	8	0	0	16	11	15	1					
106+75.00	58	40	18	0	40	2	18	8	28	36	4	0	0	18	12	17	1					
107+00.00	54	40	14	0	40	2	14	8	24	31	9	0	0	14	11	15	-1					
107+25.00	50	41	9	0	41	0	9	8	17	22	19	0	0	9	8	11	-2					
107+50.00	49	39	10	0	39	0	10	9	19	25	14	0	0	10	7	10	0					
107+75.00	51	41	10	0	41	1	10	10	21	27	14	0	0	10	7	10	0					
107+92.64	54	45	9	0	45	0	9	9	18	23	22	0	0	9	2	3	6					
108+48.11	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0					
108+50.00	3	3	0	0	3	0		1	1	1	2	0	0	0	0	0	0					
108+75.00	58	45	13	0	45	0	13	9	22	29	16	0	0	13	5	7	6					
109+00.00	56	44	12	0	44	0	12	9	21	27	17	0	0	12	6	8	4					
109+25.00	55	42	13	0	42	0	13	9	22	29	13	0	0	13	6	8	5					
109+50.00	56	45	11	0	45	0	11	10	21	27	18	0	0	11	5	7	4					
109+75.00	58	48	10	0	48	0	10	10	20	26	22	0	0	10	5	7	3					
110+00.00	59	47	12	0	47	0	12	10	22	29	18	0	0	12	6	8	4					
110+25.00	63	54	9	0	54	0	9	11	20	26	28	0	0	9	3	4	5					
110+50.00	70	63	7	0	63	0	7	12	19	25	38	0	0	7	3	4	3					
110+75.00	77	69	8	0	69	0	8	11	19	25	44	0	0	8	4	6	2					
111+00.00	83	73	10	0	73	0	10	11	21	27	46	0	0	10	5	7	3					
111+25.00	82	71	11	0	71	0	11	11	22	29	42	0	0	11	6	8	3					
111+50.00	76	66	10	0	66	0	10	11	21	27	39	0	0	10	6	8	2					
111+75.00	74	65	9	0	65	0	9	10	19	25	40	0	0	9	3	4	5					
112+00.00	106	87	19	0	87	6	19	10	35	46	42	0	0	19	3	4	15					
112+25.00	109	87	22	0	87	6	22	10	38	49	38	0	0	22	5	7	15					
112+50.00	74	63	11	0	63	1	11	10	22	29	34	0	0	11	4	6	5					
112+71.55	56	48	8	0	48	0	8	9	17	22	26	0	0	8	4	6	2					
14TH_SW																						
Totals:	2,686	2,172	514	0	2,172	76	514	507	1,097	1,427	747	0	0	514	322	451	64					

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut					Fill						Checks (EW-102)		Topsoil								
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Rock Undercut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Existing Pavement Undercut (+Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
17TH																						
600+50.00																						
600+75.00	105	81	24	0	81	4	24	23	51	66	15	0	0	24	5	7	17					
601+00.00	87	64	23	0	64	4	23	17	44	57	7	0	0	23	6	8	15					
601+25.00	70	53	17	0	53	4	17	13	34	44	9	0	0	17	6	8	9					
601+50.00	85	72	13	0	72	1	13	13	27	35	37	0	0	13	3	4	9					
601+75.00	94	77	17	0	77	1	17	9	27	35	42	0	0	17	5	7	10					
602+00.00	91	74	17	0	74	1	17	8	26	34	40	0	0	17	7	10	7					
602+25.00	96	77	19	0	77	0	19	8	27	35	42	0	0	19	5	7	12					
602+50.00	97	77	20	0	77	0	20	8	28	36	41	0	0	20	3	4	16					
602+75.00	91	74	17	0	74	0	17	8	25	33	42	0	0	17	4	6	11					
603+00.00	83	68	15	0	68	0	15	9	24	31	37	0	0	15	5	7	8					
603+25.00	76	61	15	0	61	1	15	9	25	33	29	0	0	15	6	8	7					
603+50.00	73	57	16	0	57	1	16	9	26	34	23	0	0	16	6	8	8					
603+75.00	111	82	29	0	82	1	29	15	45	59	24	0	0	29	18	25	4					
604+00.00	258	188	70	0	188	0	70	41	111	144	44	0	0	70	15	21	49					
604+25.00	170	170	0	0	170	3		39	42	55	115	0	0	0	5	7	-7					
604+50.00	90	63	27	0	63	8	27	12	47	61	2	0	0	27	9	13	14					
604+75.00	82	56	26	0	56	11	26	9	46	60	-4	0	0	26	8	11	15					
605+00.00	82	56	26	0	56	12	26	9	47	61	-5	0	0	26	8	11	15					
605+25.00	80	55	25	0	55	13	25	9	47	61	-6	0	0	25	8	11	14					
605+50.00	83	59	24	0	59	10	24	9	43	56	3	0	0	24	8	11	13					
605+75.00	96	70	26	0	70	4	26	9	39	51	19	0	0	26	4	6	20					
606+00.00	85	60	25	0	60	8	25	9	42	55	5	0	0	25	3	4	21					
606+25.00	54	32	22	0	32	17	22	9	48	62	-30	0	0	22	7	10	12					
606+50.00	40	17	23	0	17	25	23	9	57	74	-57	0	0	23	9	13	10					
606+75.00	34	10	24	0	10	33	24	9	66	86	-76	0	0	24	11	15	9					
607+00.00	36	12	24	0	12	19	24	12	55	72	-60	0	0	24	12	17	7					
607+25.00	54	41	13	0	41	3	13	21	37	48	-7	0	0	13	8	11	2					
17TH																						
Totals:	2,403	1,806	597	0	1,806	184	597	355	1,136	1,477	330	0	0	597	194	272	326					

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut					Fill						Checks (EW-102)		Topsoil								
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Rock Undercut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Existing Pavement Undercut (+Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
18TH																						
301+54.18	54	47	7	0	47	0	7	12	19	25	22	0	0	7	2	3	4					
301+75.00	62	60	2	0	60	0	2	18	20	26	34	0	0	2	3	4	-2					
302+00.00	66	64	2	0	64	0	2	18	20	26	38	0	0	2	3	4	-2					
302+25.00	76	67	9	0	67	0	9	20	29	38	29	0	0	9	1	1	8					
302+50.00	67	67	0	0	67	0		22	22	29	38	0	0	0	0	0	0					
302+75.00	63	63	0	0	63	0		22	22	29	34	0	0	0	0	0	0					
303+00.00	59	59	0	0	59	0		22	22	29	30	0	0	0	0	0	0					
303+25.00	54	54	0	0	54	0		21	21	27	27	0	0	0	2	3	-3					
303+50.00	67	47	20	0	47	45	20	18	83	108	-61	0	0	20	13	18	2					
303+75.00	82	42	40	0	42	97	40	18	155	202	-160	0	0	40	22	31	9					
304+00.00	121	63	58	0	63	171	58	21	250	325	-262	0	0	58	25	35	23					
304+25.00																						
18TH																						
Totals:	771	633	138	0	633	313	138	212	663	862	-229	0	0	138	71	100	39					

FILE NO.	ENGLISH	DESIGN TEAM McCLURE	CLINTON COUNTY	PROJECT NUMBER	SHEET NUMBER T.5

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut					Fill						Checks (EW-102)		Topsoil								
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Rock Undercut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Existing Pavement Undercut (+Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
18TH_N																						
400+35.00	131	94	37	0	94	0	37	28	65	85	10	0	0	37	6	8	29					
400+50.00	85	85	0	0	85	0		46	46	60	25	0	0	0	13	18	-18					
400+75.00	76	59	17	0	59	1	17	20	38	49	10	0	0	17	10	14	3					
401+00.00	76	56	20	0	56	4	20	9	33	43	13	0	0	20	11	15	5					
401+25.00	73	50	23	0	50	9	23	9	41	53	-3	0	0	23	12	17	6					
401+50.00	60	36	24	0	36	17	24	9	50	65	-29	0	0	24	14	20	4					
401+75.00	53	26	27	0	26	33	27	10	70	91	-65	0	0	27	16	22	5					
402+00.00	126	42	84	0	42	50	84	9	143	186	-144	0	0	84	20	28	56					
402+25.00	279	177	102	0	177	28	102	10	140	182	-5	0	0	102	16	22	80					
402+48.70																						
18TH_N																						
Totals:	959	625	334	0	625	142	334	150	626	814	-189	0	0	334	118	166	169					

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut					Fill						Checks (EW-102)		Topsoil								
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Rock Undercut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Existing Pavement Undercut (+Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
21ST																						
4+80.00																						
5+00.00	16	6	10	0	6	7	10	1	18	23	-17	0	0	10	7	10	0					
5+25.00	27	12	15	0	12	15	15	2	32	42	-30	0	0	15	9	13	2					
5+50.00	37	18	19	0	18	19	19	2	40	52	-34	0	0	19	9	13	6					
5+75.00	86	49	37	0	49	29	37	9	75	98	-49	0	0	37	18	25	12					
6+00.00	168	122	46	0	122	19	46	20	85	111	12	0	0	46	16	22	24					
6+25.00	170	147	23	0	147	2	23	31	56	73	74	0	0	23	5	7	16					
6+50.00	112	101	11	0	101	5	11	29	45	59	43	0	0	11	6	8	3					
6+75.00	73	53	20	0	53	17	20	13	50	65	-12	0	0	20	12	17	3					
7+00.00	0	0	0	0	0	0		7	7	9	-9	0	0	0	0	0	0					
7+25.00	65	31	34	0	31	42	34		76	99	-68	0	0	34	22	31	3					
7+50.00	51	38	13	0	38	9	13	18	40	52	-14	0	0	13	9	13	0					
7+75.00	70	65	5	0	65	1	5	34	40	52	13	0	0	5	4	6	-1					
8+00.00	100	81	19	0	81	3	19	36	58	75	6	0	0	19	3	4	15					
8+25.00	133	90	43	0	90	28	43	28	99	129	-39	0	0	43	11	15	28					
8+50.00	121	89	32	0	89	25	32	25	82	107	-18	0	0	32	12	17	15					
8+75.00	55	46	9	0	46	0	9	13	22	29	17	0	0	9	4	6	3					
9+00.00	15	10	5	0	10	0	5	2	7	9	1	0	0	5	3	4	1					
9+05.00	2	1	1	0	1	0	1		1	1	0	0	0	1	1	1	0					
21ST																						
Totals:	1,301	959	342	0	959	221	342	270	833	1,083	-124	0	0	342	151	212	131					

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut					Fill						Checks (EW-102)		Topsoil								
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Rock Undercut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Existing Pavement Undercut (+Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
ALLEY																						
900+54.69	35	14	21	0	14	9	21		30	39	-25	0	0	21	7	10	11					
900+75.00	45	20	25	0	20	6	25		31	40	-20	0	0	25	8	11	14					
901+00.00	51	28	23	0	28	2	23		25	33	-5	0	0	23	7	10	13					
901+25.00	67	44	23	0	44	0	23		23	30	14	0	0	23	5	7	16					
901+50.00	90	66	24	0	66	0	24		24	31	35	0	0	24	6	8	16					
901+75.00	88	64	24	0	64	0	24		24	31	33	0	0	24	8	11	13					
902+00.00	68	46	22	0	46	0	22		22	29	17	0	0	22	7	10	12					
902+25.00	57	34	23	0	34	1	23		24	31	3	0	0	23	7	10	13					
902+50.00	46	25	21	0	25	3	21		24	31	-6	0	0	21	8	11	10					
902+75.00	6	3	3	0	3	0	3		3	4	-1	0	0	3	1	1	2					
902+78.80																						
ALLEY																						
Totals:	553	344	209	0	344	21	209	0	230	299	45	0	0	209	64	90	120					

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut					Fill						Checks (EW-102)		Topsoil								
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Rock Undercut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Existing Pavement Undercut (+Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
MANDR																						
1940+50.00	129	76	53	0	76	64	53	35	152	198	-122	0	0	53	34	48	5					
1940+75.00	128	73	55	0	73	94	55	35	184	239	-166	0	0	55	36	50	5					
1941+00.00	129	70	59	0	70	132	59	35	226	294	-224	0	0	59	40	56	3					
1941+25.00	128	67	61	1	68	162	61	35	258	335	-267	0	0	61	43	60	1					
1941+50.00	124	62	62	1	63	183	62	35	280	364	-301	0	0	62	44	62	0					
1941+75.00	118	58	60	1	59	187	60	35	282	367	-308	0	0	60	44	62	-2					
1942+00.00	164	55	109	1	56	161	109	59	329	428	-372	0	0	109	38	53	56					
1942+25.00	55	55	0	1	56	112			112	146	-90	0	0	0	33	46	-46					
1942+50.00	110	56	54	0	56	84	54	24	162	211	-155	0	0	54	33	46	8					
1942+75.00	110	55	55	0	55	59	55	24	138	179	-124	0	0	55	33	46	9					
1943+00.00	110	54	56	0	54	25	56	25	106	138	-84	0	0	56	28	39	17					
1943+25.00	128	56	72	0	56	22	72	27	121	157	-101	0	0	72	22	31	41					
1943+50.00	141	56	85	0	56	42	85	30	157	204	-148	0	0	85	28	39	46					
1943+75.00	116	46	70	0	46	48	70	30	148	192	-146	0	0	70	25	35	35					
1944+00.00	47	19	28	0	19	30	28	16	74	96	-77	0	0	28	10	14	14					
1944+15.06	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0					
Gap	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0					
1945+65.99	13	0	13	0	0	45	13	8	66	86	-86	0	0	13	9	13	0					
1945+75.00	39	4	35	0	4	103	35	33	171	222	-218	0	0	35	23	32	3					
1946+00.00	39	7	32	0	7	68	32	33	133	173	-166	0	0	32	22	31	1					
1946+25.00	66	27	39	0	27	34	39	29	102	133	-106	0	0	39	12	17	22					
1946+50.00	83	40	43	0	40	19	43	26	88	114	-74	0	0	43	3	4	39					
1946+75.00	64	27	37	0	27	15	37	37	89	116	-89	0	0	37	4	6	31					
1947+00.00	54	19	35	0	19	21	35	49	105	137	-118	0	0	35	12	17	18					
1947+25.00	50	15	35	0	15	29	35	36	100	130	-115	0	0	35	20	28	7					
1947+50.00	48	14	34	0	14	27	34	47	108	140	-126	0	0	34	20	28	6					
1947+75.00	55	22	33	0	22	19	33		52	68	-46	0	0	33	18	25	8					
1948+00.00	62	27	35	0	27	28	35	25	88	114	-87	0	0	35	19	27	8					
1948+25.00	65	29	36	0	29	37	36	30	103	134	-105	0	0	36	22	31	5					
1948+50.00	61	38	23	0	38	18	23	54	95	124	-86	0	0	23	19	27	-4					
1948+75.00	136	51	85	0	51	2	85	93	180	234	-183	0	0	85	7	10	75					
1949+00.00	49	49	0	0	49	0		112	112	146	-97	0	0	0	0	0	0					
1949+25.00	31	31	0	0	31	39		78	117	152	-121	0	0	0	8	11	-11					
1949+50.00	65	19	46	0	19	90	46	34	170	221	-202	0	0	46	17	24	22					
1949+75.00	62	15	47	0	15	118	47	24	189	246	-231	0	0	47	18	25	22					
1950+00.00	59	13	46	0	13	139	46	24	209	272	-259	0	0	46	19	27	19					
1950+25.00	56	11	45	0	11	152	45	24	221	287	-276	0	0	45	20	28	17					
1950+50.00	59	12	47	0	12	162	47	36	245	319	-307	0	0	47	19	27	20					
1950+75.00	61	12	49	0	12	178	49	49	276	359	-347	0	0	49	19	27	22					
1951+00.00	62	12	50	0	12	203	50	44	297	386	-374	0	0	50	19	27	23					
1951+25.00	59	9	50	0	9	227	50	33	310	403	-394	0	0	50	20	28	22					
1951+50.00	55	5	50	0	5	247	50	26	323	420	-415	0	0	50	20	28	22					
1951+75.00	53	4	49	0	4	261	49	26	336	437	-433	0	0	49	21	29	20					
1952+00.00	54	6	48	0	6	260	48	49	357	464	-458	0	0	48	21	29	19					
1952+25.00	60	9	51	0	9	232	51	73	356	463	-454	0	0	51	20	28	23					
1952+50.00	65	6	59	0	6	216	59	54	329	428	-422	0	0	59	20	28	31					
1952+75.00	42	3	39	0	3	169	39		208	270	-267	0	0	39	18	25	14					
1952+96.60	4	1	3	1	2	22	3		25	33	-31	0	0	3	3	4	-1					
1953+00.00	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0					
Gap	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0					
1955+14.52	31	0	31	0	0	15	31	33	79	103	-103	0	0	31	1	1	30					
1955+25.00	1	1	0	0	1	80		20	100	130	-129	0	0	0	10	14	-14					
1955+50.00	30	4	26	0	4	102	26	30	158	205	-201	0	0	26	17	24	2					
1955+75.00	59	29	30	0	29	53	30	30	113	147	-118	0	0	30	13	18	12					
1956+00.00	84	47	37	0	47	31	37	26	94	122	-75	0	0	37	16	22	15					
1956+25.00	79	33	46	0	33	57	46	24	127	165	-132	0	0	46	21	29	17					
1956+50.00	75	26	49	0	26	109	49	24	182	237	-211	0	0	49	24	34	15					
1956+75.00	90	36	54	0	36	130	54	24	208	270	-234	0	0	54	28	39	15					
1957+00.00	99	45	54	0	45	117	54	24	195	254	-209	0	0	54	28	39	15					
1957+25.00	99	51	48	0	51	105	48	24	177	230	-179	0	0	48	27	38	10					
1957+50.00	99	57	42	0	57	87	42	24	153	199	-142	0	0	42	26	36	6					
1957+75.00	104	64	40	0	64	70	40	24	134	174	-110	0	0	40	25	35	5					
1958+00.00	110	71	39	0	71	59	39	24	122	159	-88	0	0	39	24	34	5					
1958+25.00	120	90	30	0	90	41	30	38	109	142	-52	0	0	30	18	25	5					
1958+50.00	130	109	21	0	109	25	21	52	98	127	-18	0	0	21	12	17	4					
1958+75.00	129	98	31	0	98	25	31	38	94	122	-24	0	0	31	17	24	7					
1959+00.00	136	97	39	0	97	20	39	29	88	114	-17	0	0	39	16	22	17					
1959+25.00																						
Subtotals:	4,943	2,253	2,690	6	2,259	5,711	2,690	2,119	10,520	13,676	-11,417	0	0	2,690	1,306	1,828	862					

FILE NO.	ENGLISH	DESIGN TEAM **McCLURE**	**CLINTON** COUNTY	PROJECT NUMBER	SHEET NUMBER **T.9**

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut					Fill						Checks (EW-102)		Topsoil								
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Rock Undercut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Existing Pavement Undercut (+Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
1959+25.00	141	107	34	0	107	7	34	40	81	105	2	0	0	34	10	14	20					
1959+50.00	144	109	35	0	109	15	35	35	85	111	-2	0	0	35	12	17	18					
1959+75.00	160	119	41	0	119	29	41	24	94	122	-3	0	0	41	16	22	19					
1960+00.00	176	133	43	0	133	32	43	24	99	129	4	0	0	43	17	24	19					
1960+25.00	188	146	42	0	146	31	42	24	97	126	20	0	0	42	15	21	21					
1960+50.00	200	159	41	0	159	28	41	24	93	121	38	0	0	41	14	20	21					
1960+75.00	216	175	41	0	175	21	41	24	86	112	63	0	0	41	13	18	23					
1961+00.00	229	189	40	0	189	16	40	24	80	104	85	0	0	40	12	17	23					
1961+25.00	239	199	40	0	199	13	40	24	77	100	99	0	0	40	11	15	25					
1961+50.00	246	206	40	0	206	12	40	24	76	99	107	0	0	40	11	15	25					
1961+75.00	255	209	46	0	209	11	46	24	81	105	104	0	0	46	11	15	31					
1962+00.00	270	208	62	0	208	14	62	25	101	131	77	0	0	62	15	21	41					
1962+25.00	271	212	59	0	212	10	59	26	95	124	89	0	0	59	13	18	41					
1962+50.00	280	240	40	0	240	1	40	37	78	101	139	0	0	40	6	8	32					
1962+75.00	288	258	30	0	258	1	30	60	91	118	140	0	0	30	10	14	16					
1963+00.00	251	222	29	0	222	2	29	62	93	121	101	0	0	29	16	22	7					
1963+25.00	201	168	33	0	168	9	33	46	88	114	54	0	0	33	18	25	8					
1963+50.00	160	126	34	0	126	18	34	41	93	121	5	0	0	34	18	25	9					
1963+75.00	148	119	29	0	119	31	29	51	111	144	-25	0	0	29	17	24	5					
1964+00.00	134	106	28	0	106	50	28	49	127	165	-59	0	0	28	14	20	8					
1964+25.00	114	83	31	0	83	62	31	43	136	177	-94	0	0	31	13	18	13					
1964+50.00	105	69	36	0	69	68	36	34	138	179	-110	0	0	36	13	18	18					
1964+75.00	98	51	47	0	51	74	47	19	140	182	-131	0	0	47	14	20	27					
1965+00.00	101	44	57	0	44	97	57	15	169	220	-176	0	0	57	20	28	29					
1965+25.00	106	44	62	0	44	117	62	15	194	252	-208	0	0	62	24	34	28					
1965+50.00	110	46	64	0	46	117	64	15	196	255	-209	0	0	64	24	34	30					
1965+75.00	114	51	63	0	51	112	63	15	190	247	-196	0	0	63	23	32	31					
1966+00.00	118	56	62	0	56	105	62	15	182	237	-181	0	0	62	22	31	31					
1966+25.00	123	62	61	0	62	99	61	15	175	228	-166	0	0	61	22	31	30					
1966+50.00	128	68	60	0	68	95	60	15	170	221	-153	0	0	60	21	29	31					
1966+75.00	133	75	58	0	75	92	58	15	165	215	-140	0	0	58	21	29	29					
1967+00.00	138	81	57	0	81	88	57	15	160	208	-127	0	0	57	21	29	28					
1967+25.00	142	85	57	0	85	85	57	15	157	204	-119	0	0	57	21	29	28					
1967+50.00	145	89	56	0	89	82	56	15	153	199	-110	0	0	56	21	29	27					
1967+75.00	145	91	54	0	91	77	54	15	146	190	-99	0	0	54	21	29	25					
1968+00.00	147	94	53	0	94	72	53	15	140	182	-88	0	0	53	21	29	24					
1968+25.00	147	95	52	0	95	71	52	15	138	179	-84	0	0	52	21	29	23					
1968+50.00	151	99	52	0	99	72	52	17	141	183	-84	0	0	52	22	31	21					
1968+75.00	155	104	51	0	104	71	51	19	141	183	-79	0	0	51	22	31	20					
1969+00.00	161	124	37	0	124	42	37	33	112	146	-22	0	0	37	16	22	15					
1969+25.00	164	129	35	0	129	14	35	33	82	107	22	0	0	35	9	13	22					
1969+50.00	165	116	49	0	116	36	49	17	102	133	-17	0	0	49	15	21	28					
1969+75.00	168	116	52	0	116	57	52	15	124	161	-45	0	0	52	21	29	23					
1970+00.00	167	115	52	0	115	57	52	15	124	161	-46	0	0	52	21	29	23					
1970+25.00	166	113	53	0	113	56	53	15	124	161	-48	0	0	53	21	29	24					
1970+50.00	163	109	54	0	109	57	54	15	126	164	-55	0	0	54	22	31	23					
1970+75.00	158	102	56	0	102	65	56	15	136	177	-75	0	0	56	23	32	24					
1971+00.00	152	94	58	0	94	78	58	15	151	196	-102	0	0	58	25	35	23					
1971+25.00	146	87	59	0	87	90	59	15	164	213	-126	0	0	59	26	36	23					
1971+50.00	141	81	60	0	81	97	60	15	172	224	-143	0	0	60	27	38	22					
1971+75.00	137	77	60	0	77	104	60	15	179	233	-156	0	0	60	27	38	22					
1972+00.00	133	73	60	0	73	109	60	15	184	239	-166	0	0	60	27	38	22					
1972+25.00	131	71	60	0	71	109	60	15	184	239	-168	0	0	60	27	38	22					
1972+50.00	132	71	61	0	71	106	61	15	182	237	-166	0	0	61	27	38	23					
1972+75.00	138	75	63	0	75	94	63	19	176	229	-154	0	0	63	24	34	29					
1973+00.00	139	88	51	0	88	65	51	43	159	207	-119	0	0	51	12	17	34					
1973+25.00	147	97	50	0	97	45	50	47	142	185	-88	0	0	50	3	4	46					
1973+50.00	164	106	58	0	106	57	58	23	138	179	-73	0	0	58	10	14	44					
1973+75.00	171	117	54	0	117	71	54	15	140	182	-65	0	0	54	21	29	25					
1974+00.00	165	112	53	0	112	76	53	15	144	187	-75	0	0	53	26	36	17					
1974+25.00	156	107	49	0	107	72	49	15	136	177	-70	0	0	49	26	36	13					
1974+50.00	160	118	42	0	118	44	42	24	110	143	-25	0	0	42	19	27	15					
1974+75.00	170	142	28	0	142	24	28	46	98	127	15	0	0	28	13	18	10					
1975+00.00	166	136	30	0	136	33	30	39	102	133	4	0	0	30	18	25	5					
1975+25.00	161	117	44	0	117	43	44	18	105	137	-20	0	0	44	23	32	12					
1975+50.00	166	120	46	0	120	43	46	15	104	135	-15	0	0	46	24	34	12					
1975+75.00	173	126	47	0	126	41	47	15	103	134	-8	0	0	47	25	35	12					
1976+00.00	179	131	48	0	131	36	48	15	99	129	2	0	0	48	26	36	12					
1976+25.00																						
Subtotals:	11,156	7,867	3,289	0	7,867	3,828	3,289	1,642	8,759	11,387	-3,520	0	0	3,289	1,260	1,764	1,525					

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut					Fill						Checks (EW-102)		Topsoil								
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Rock Undercut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Existing Pavement Undercut (+Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
1976+25.00	180	132	48	0	132	33	48	15	96	125	7	0	0	48	26	36	12					
1976+50.00	179	131	48	0	131	32	48	15	95	124	8	0	0	48	25	35	13					
1976+75.00	173	125	48	0	125	32	48	19	99	129	-4	0	0	48	21	29	19					
1977+00.00	201	162	39	0	162	33	39	60	132	172	-10	0	0	39	15	21	18					
1977+25.00	230	170	60	11	181	38	60	60	158	205	-24	0	0	60	16	22	38					
1977+50.00	216	128	88	11	139	43	88	19	150	195	-56	0	0	88	19	27	61					
1977+75.00	189	119	70	0	119	42	70	15	127	165	-46	0	0	70	20	28	42					
1978+00.00	169	117	52	0	117	42	52	15	109	142	-25	0	0	52	20	28	24					
1978+25.00	166	114	52	0	114	45	52	15	112	146	-32	0	0	52	20	28	24					
1978+50.00	163	111	52	0	111	50	52	15	117	152	-41	0	0	52	20	28	24					
1978+75.00	161	109	52	0	109	45	52	15	112	146	-37	0	0	52	19	27	25					
1979+00.00	157	106	51	0	106	34	51	15	100	130	-24	0	0	51	17	24	27					
1979+25.00	151	105	46	0	105	23	46	16	85	111	-6	0	0	46	14	20	26					
1979+50.00	146	106	40	0	106	21	40	18	79	103	3	0	0	40	13	18	22					
1979+75.00	141	102	39	0	102	39	39	22	100	130	-28	0	0	39	14	20	19					
1980+00.00	136	97	39	0	97	51	39	23	113	147	-50	0	0	39	16	22	17					
1980+25.00	132	92	40	0	92	58	40	24	122	159	-67	0	0	40	17	24	16					
1980+50.00	123	85	38	0	85	40	38	25	103	134	-49	0	0	38	15	21	17					
1980+75.00	113	84	29	0	84	15	29	47	91	118	-34	0	0	29	7	10	19					
1981+00.00	248	225	23	0	225	7	23	78	108	140	85	0	0	23	3	4	19					
1981+25.00	252	210	42	0	210	65	42	78	185	241	-31	0	0	42	22	31	11					
1981+50.00	117	47	70	0	47	151	70	61	282	367	-320	0	0	70	46	64	6					
1981+75.00	117	36	81	0	36	165	81	55	301	391	-355	0	0	81	52	73	8					
1982+00.00	110	40	70	0	40	124	70	66	260	338	-298	0	0	70	40	56	14					
1982+25.00	132	74	58	0	74	67	58	60	185	241	-167	0	0	58	19	27	31					
1982+50.00	124	73	51	0	73	45	51	39	135	176	-103	0	0	51	8	11	40					
1982+75.00	92	57	35	0	57	36	35	32	103	134	-77	0	0	35	8	11	24					
1983+00.00	87	72	15	0	72	12	15	69	96	125	-53	0	0	15	8	11	4					
1983+25.00	79	74	5	0	74	2	5	76	83	108	-34	0	0	5	7	10	-5					
1983+50.00	82	74	8	0	74	2	8	44	54	70	4	0	0	8	7	10	-2					
1983+75.00	85	75	10	0	75	1	10	42	53	69	6	0	0	10	7	10	0					
1984+00.00	83	72	11	0	72	10	11	41	62	81	-9	0	0	11	7	10	1					
1984+25.00	79	67	12	0	67	18	12	43	73	95	-28	0	0	12	8	11	1					
1984+50.00	82	74	8	0	74	9	8	48	65	85	-11	0	0	8	4	6	2					
1984+75.00	58	54	4	0	54	0	4	51	55	72	-18	0	0	4	0	0	4					
1985+00.00	64	50	14	0	50	12	14	41	67	87	-37	0	0	14	6	8	6					
1985+25.00	100	75	25	0	75	22	25	30	77	100	-25	0	0	25	11	15	10					
1985+50.00	104	80	24	0	80	20	24	30	74	96	-16	0	0	24	9	13	11					
1985+75.00	108	84	24	1	85	18	24	30	72	94	-9	0	0	24	9	13	11					
1986+00.00	110	86	24	1	87	18	24	30	72	94	-7	0	0	24	9	13	11					
1986+25.00	112	87	25	1	88	19	25	29	73	95	-7	0	0	25	9	13	12					
1986+50.00	117	96	21	0	96	19	21	39	79	103	-7	0	0	21	8	11	10					
1986+75.00	119	104	15	0	104	19	15	51	85	111	-7	0	0	15	6	8	7					
1987+00.00	118	103	15	0	103	19	15	49	83	108	-5	0	0	15	6	8	7					
1987+25.00	120	95	25	0	95	37	25	36	98	127	-32	0	0	25	9	13	12					
1987+50.00	122	89	33	0	89	59	33	24	116	151	-62	0	0	33	12	17	16					
1987+75.00	125	90	35	0	90	63	35	23	121	157	-67	0	0	35	13	18	17					
1988+00.00	130	91	39	0	91	64	39	23	126	164	-73	0	0	39	13	18	21					
1988+25.00	127	95	32	0	95	59	32	30	121	157	-62	0	0	32	12	17	15					
1988+50.00	129	101	28	0	101	57	28	30	115	150	-49	0	0	28	13	18	10					
1988+75.00	138	103	35	0	103	58	35	28	121	157	-54	0	0	35	13	18	17					
1989+00.00	138	101	37	0	101	62	37	37	136	177	-76	0	0	37	13	18	19					
1989+25.00	129	101	28	0	101	38	28	48	114	148	-47	0	0	28	8	11	17					
1989+50.00	131	99	32	0	99	10	32	46	88	114	-15	0	0	32	4	6	26					
1989+75.00	128	98	30	0	98	10	30	48	88	114	-16	0	0	30	4	6	24					
1990+00.00	120	102	18	0	102	9	18	44	71	92	10	0	0	18	4	6	12					
1990+25.00	135	106	29	0	106	7	29	28	64	83	23	0	0	29	4	6	23					
1990+50.00	141	109	32	0	109	5	32	22	59	77	32	0	0	32	3	4	28					
1990+75.00	145	115	30	0	115	4	30	21	55	72	44	0	0	30	4	6	24					
1991+00.00	150	121	29	0	121	21	29	27	77	100	21	0	0	29	8	11	18					
1991+25.00	152	119	33	0	119	48	33	29	110	143	-24	0	0	33	11	15	18					
1991+50.00	155	114	41	0	114	55	41	27	123	160	-46	0	0	41	11	15	26					
1991+75.00	151	110	41	0	110	53	41	26	120	156	-46	0	0	41	10	14	27					
1992+00.00	148	106	42	0	106	49	42	20	111	144	-38	0	0	42	9	13	29					
1992+25.00	145	102	43	0	102	42	43	15	100	130	-28	0	0	43	9	13	30					
1992+50.00	136	96	40	0	96	36	40	22	98	127	-31	0	0	40	7	10	30					
1992+75.00	139	107	32	0	107	20	32	33	85	111	-4	0	0	32	7	10	22					
1993+00.00	137	118	19	0	118	8	19	40	67	87	31	0	0	19	8	11	8					
1993+25.00																						
Subtotals:	9,176	6,772	2,404	25	6,797	2,470	2,404	2,392	7,266	9,446	-2,649	0	0	2,404	862	1,207	1,197					

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

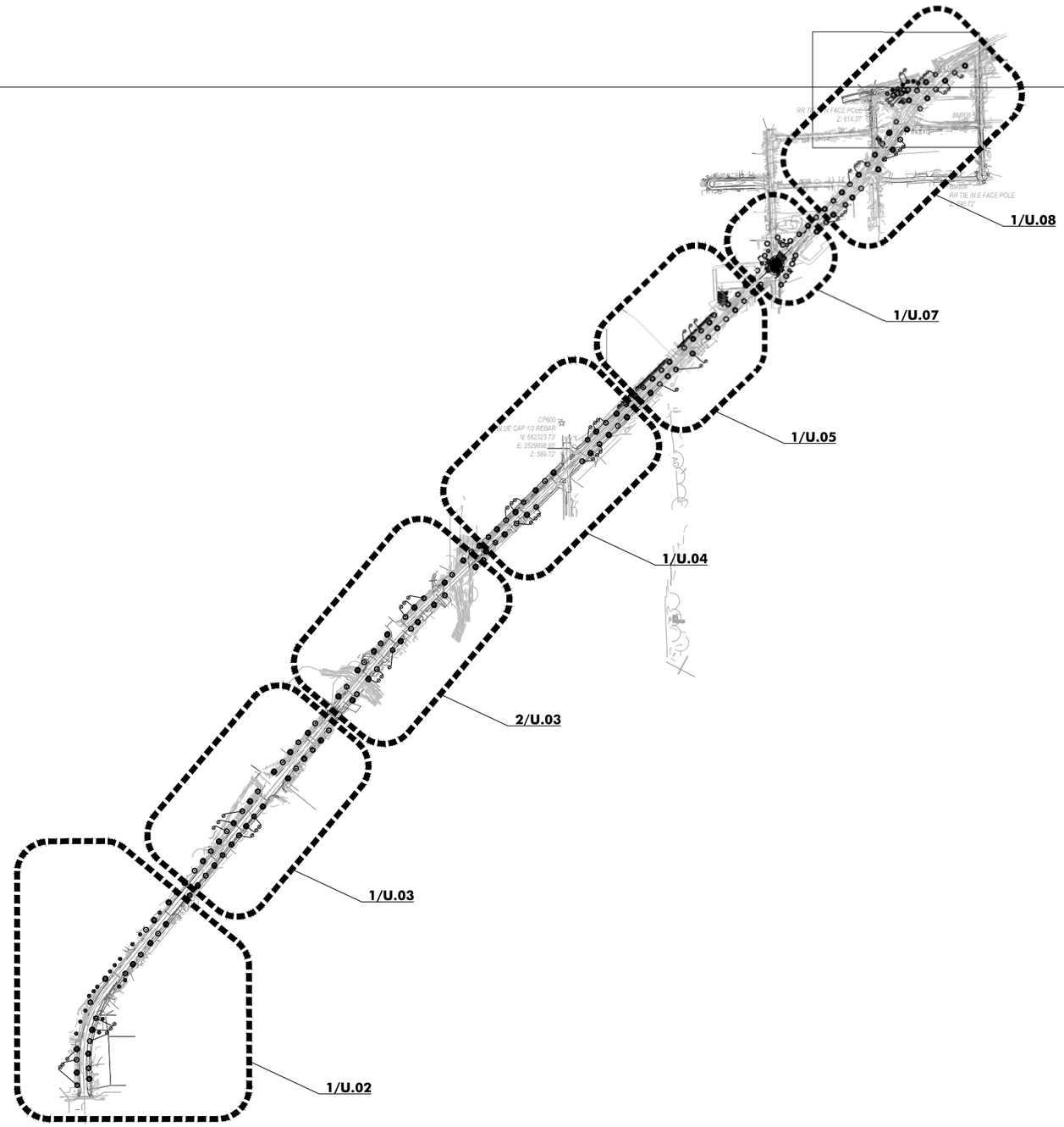
Station	Cut					Fill						Checks (EW-102)		Topsoil								
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Rock Undercut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Existing Pavement Undercut (+Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
1993+25.00	124	113	11	0	113	13	11	44	68	88	25	0	0	11	10	14	-3					
1993+50.00	125	109	16	0	109	53	16	40	109	142	-33	0	0	16	15	21	-5					
1993+75.00	132	104	28	0	104	44	28	28	100	130	-26	0	0	28	9	13	15					
1994+00.00	136	102	34	0	102	0	34	24	58	75	27	0	0	34	0	0	34					
1994+25.00	132	98	34	0	98	0	34	25	59	77	21	0	0	34	0	0	34					
1994+50.00	118	95	23	0	95	0	23	25	48	62	33	0	0	23	0	0	23					
1994+75.00	267	235	32	0	235	50	32	26	108	140	95	0	0	32	13	18	14					
1995+00.00	298	250	48	14	264	71	48	27	146	190	74	0	0	48	23	32	16					
1995+25.00	163	125	38	14	139	31	38	29	98	127	12	0	0	38	14	20	18					
1995+50.00	184	149	35	0	149	10	35	30	75	98	52	0	0	35	12	17	18					
1995+75.00	209	182	27	0	182	0	27	42	69	90	92	0	0	27	14	20	7					
1996+00.00	182	173	9	0	173	1	9	58	68	88	85	0	0	9	10	14	-5					
1996+25.00	179	161	18	0	161	1	18	48	67	87	74	0	0	18	12	17	1					
1996+50.00	202	169	33	0	169	1	33	32	66	86	83	0	0	33	14	20	13					
1996+75.00	210	173	37	0	173	2	37	32	71	92	81	0	0	37	18	25	12					
1997+00.00	200	161	39	0	161	2	39	32	73	95	66	0	0	39	20	28	11					
1997+25.00	171	137	34	0	137	2	34	33	69	90	47	0	0	34	19	27	7					
1997+50.00	127	108	19	0	108	2	19	37	58	75	33	0	0	19	12	17	2					
1997+75.00	119	114	5	0	114	1	5	54	60	78	36	0	0	5	3	4	1					
1998+00.00	134	120	14	0	120	1	14	59	74	96	24	0	0	14	7	10	4					
1998+25.00	122	99	23	0	99	8	23	45	76	99	0	0	0	23	13	18	5					
1998+50.00	122	98	24	4	102	14	24	39	77	100	2	0	0	24	12	17	7					
1998+75.00	119	95	24	4	99	19	24	35	78	101	-3	0	0	24	11	15	9					
1999+00.00	114	89	25	4	93	24	25	32	81	105	-12	0	0	25	11	15	10					
1999+25.00	104	59	45	4	63	21	45	16	82	107	-44	0	0	45	13	18	27					
1999+50.00	33	33	0	0	33	12		12	24	31	2	0	0	0	13	18	-18					
1999+75.00	26	26	0	0	26	15		46	61	79	-53	0	0	0	10	14	-14					
2000+00.00	19	19	0	0	19	15		51	66	86	-67	0	0	0	7	10	-10					
2000+25.00	21	21	0	0	21	3		18	21	27	-6	0	0	0	3	4	-4					
2000+50.00	22	22	0	0	22	0		2	2	3	19	0	0	0	1	1	-1					
2000+75.00	19	19	0	0	19	0		2	2	3	16	0	0	0	1	1	-1					
2001+00.00	13	13	0	0	13	0		2	2	3	10	0	0	0	2	3	-3					
2001+25.00																						
MANDR																						
Totals:	29,421	20,363	9,058	75	20,438	12,425	9,058	7,178	28,661	37,260	-16,822	0	0	9,058	3,750	5,250	3,809					

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut					Fill						Checks (EW-102)		Topsoil								
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Rock Undercut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Existing Pavement Undercut (+Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
Summary:																						
13TH_SE	4,032	3,009	1,023	0	3,009	967	1,023	553	2,543	3,306	-297	0	0	1,023	398	558	466					
13TH_SW	997	779	218	0	779	69	218	242	529	688	92	0	0	218	92	129	90					
14TH_SW	2,686	2,172	514	0	2,172	76	514	507	1,097	1,427	747	0	0	514	322	451	64					
17TH	2,403	1,806	597	0	1,806	184	597	355	1,136	1,477	330	0	0	597	194	272	326					
18TH	771	633	138	0	633	313	138	212	663	862	-229	0	0	138	71	100	39					
18TH_N	959	625	334	0	625	142	334	150	626	814	-189	0	0	334	118	166	169					
21ST	1,301	959	342	0	959	221	342	270	833	1,083	-124	0	0	342	151	212	131					
ALLEY	553	344	209	0	344	21	209	0	230	299	45	0	0	209	64	90	120					
MANDR	29,421	20,363	9,058	75	20,438	12,425	9,058	7,178	28,661	37,260	-16,822	0	0	9,058	3,750	5,250	3,809					
Project Totals:	43,123	30,690	12,433	75	30,765	14,418	12,433	9,467	36,318	47,216	-16,447	0	0	12,433	5,160	7,228	5,214					



1 OVERALL LANDSCAPE PLAN

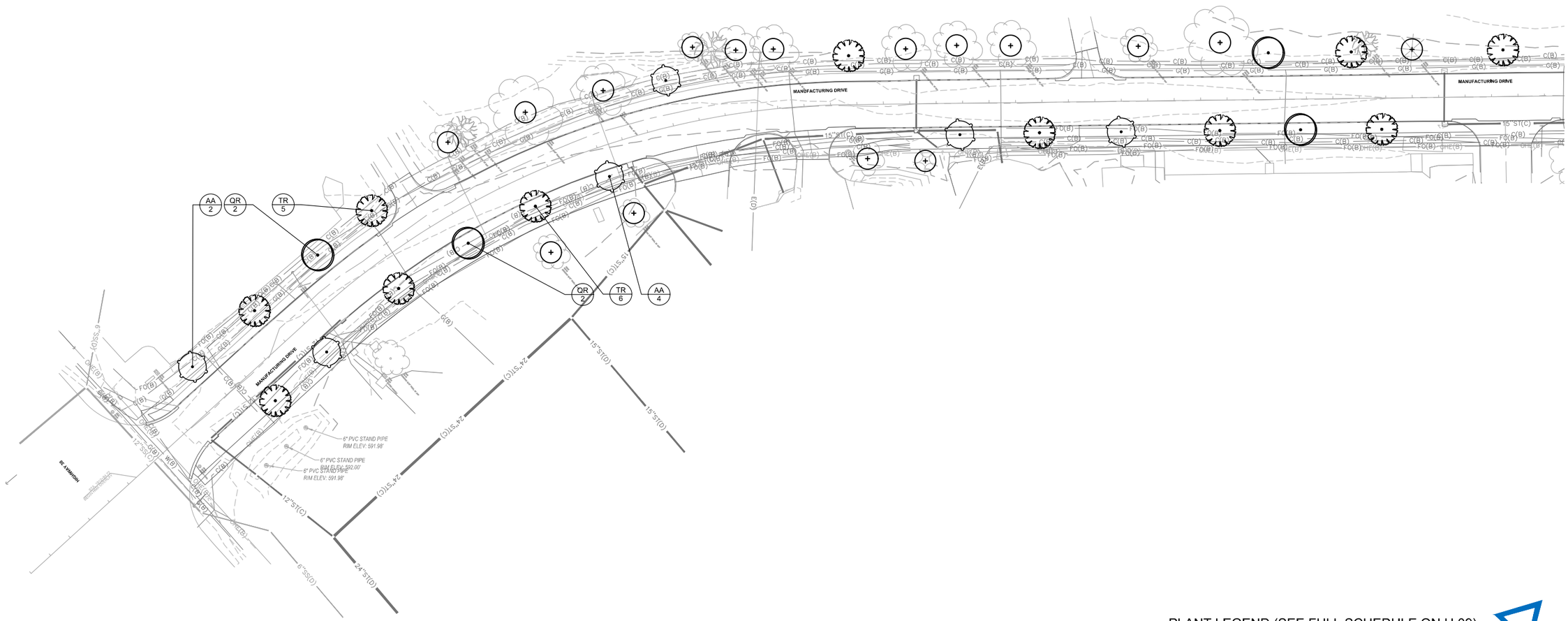
1" = 400'

N

400 200 0 400

FILE NO.	ENGLISH	DESIGN TEAM McCLURE	CLINTON COUNTY	PROJECT NUMBER 30618011-000	SHEET NUMBER U.01	REVISED

SYSTEMTIME SYSTEMDATE USERNAME DGNSPEC



1 LANDSCAPE PLAN ENLARGEMENT (STA 0+00 - 14+51)

1" = 50'

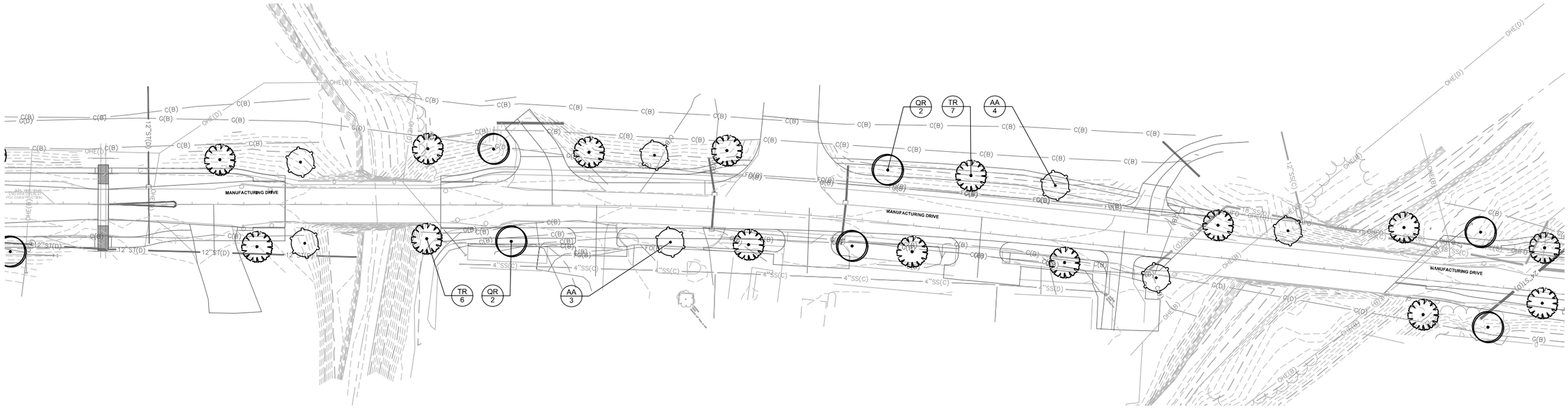
PLANT LEGEND (SEE FULL SCHEDULE ON U.09)

TREES	BOTANICAL / COMMON NAME
AA	Acer x freemanii 'Jeffsred' TM / Autumn Blaze Freeman Maple
ES	Existing to Remain
QR	Quercus rubra / Red Oak
TR	Tilia americana 'Redmond' / Redmond American Linden

50 25 0 50

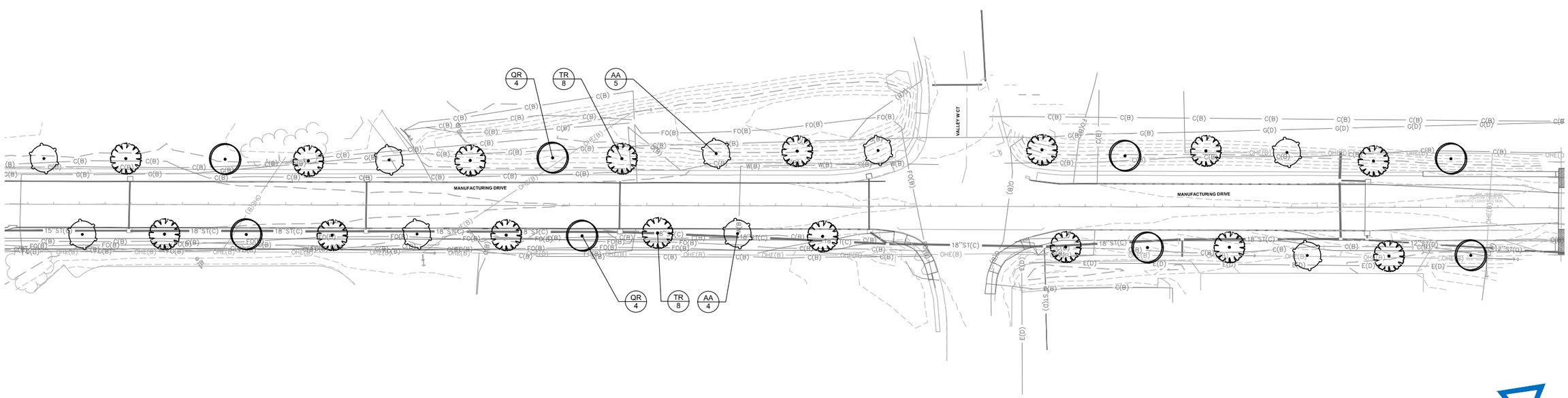
FILE NO.	ENGLISH	DESIGN TEAM McCLURE	CLINTON COUNTY	PROJECT NUMBER 30618011-000	SHEET NUMBER U.02	REVISED

SYSTEMTIME SYSTEMDATE USERNAME DGNSPEC



2 LANDSCAPE PLAN ENLARGEMENT (STA 29+00 - 42+42)

1" = 50'



1 LANDSCAPE PLAN ENLARGEMENT (STA 14+51 - 29+00)

1" = 50'

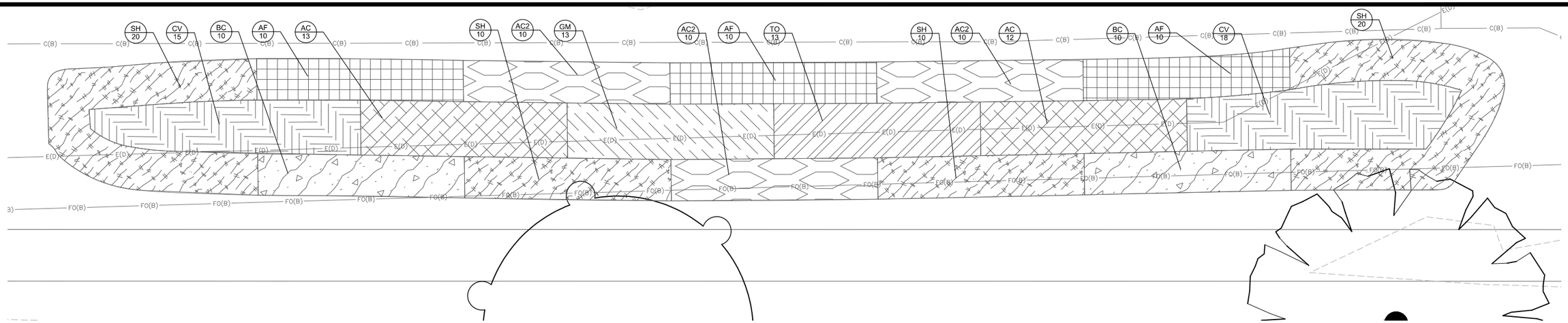
PLANT LEGEND (SEE FULL SCHEDULE ON U.09)

TREES	BOTANICAL / COMMON NAME
AA	Acer x freemanii 'Jeffsred' TM / Autumn Blaze Freeman Maple
QR	Quercus rubra / Red Oak
TR	Tilia americana 'Redmond' / Redmond American Linden

50 25 0 50

FILE NO.	ENGLISH	DESIGN TEAM McCLURE	CLINTON COUNTY	PROJECT NUMBER 30618011-000	SHEET NUMBER U.03	REVISED

SYSTEMTIME SYSTEMDATE USERNAME DGNSPEC



2 GREEN INFRASTRUCTURE FACILITY 'A'

1" = 5'

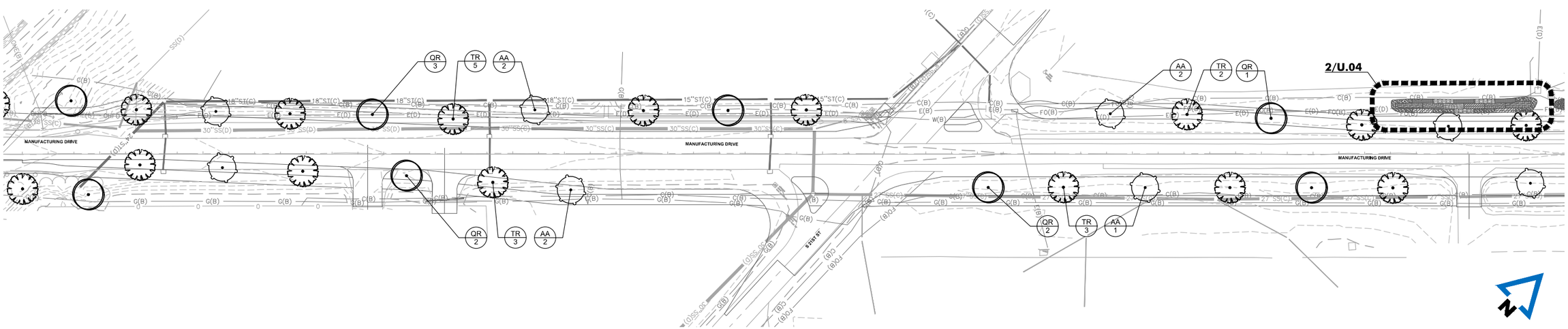
5 2.5 0 5

PLANT LEGEND (SEE FULL SCHEDULE ON U.09)

TREES	BOTANICAL / COMMON NAME
AA	Acer x freemanii 'Jeffsred' TM / Autumn Blaze Freeman Maple
QR	Quercus rubra / Red Oak
TR	Tilia americana 'Redmond' / Redmond American Linden

GROUND COVERS	BOTANICAL / COMMON NAME
	Agastache foeniculum / Blue Giant Hyssop
	Anemone canadensis / Canadian Anemone
	Aquilegia canadensis / Eastern Columbine
	Bouteloua curtipendula / Side Oats Grama
	Carex vulpinoidea / Fox Sedge

GROUND COVERS	BOTANICAL / COMMON NAME
	Geranium maculatum / Spotted Geranium
	Ruellia humilis / Wild Petunia
	Sporobolus heterolepis / Prairie Dropseed
	Tradescantia ohiensis / Ohio Spiderwort



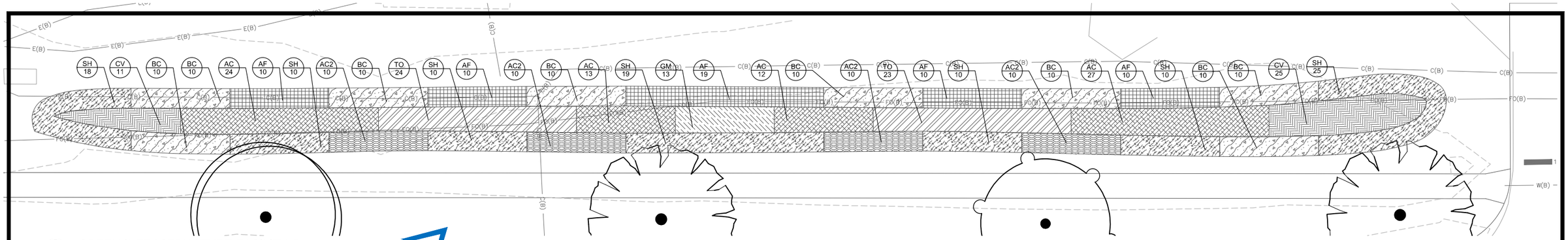
1 LANDSCAPE PLAN ENLARGEMENT (STA 42+42 - 56+38)

1" = 50'

50 25 0 50

FILE NO.	ENGLISH	DESIGN TEAM McCLURE	CLINTON COUNTY	PROJECT NUMBER 30618011-000	SHEET NUMBER U.04	REVISED

SYSTEMTIME SYSTEMDATE USERNAME DGNSPEC



2 GREEN INFRASTRUCTURE FACILITY 'B'

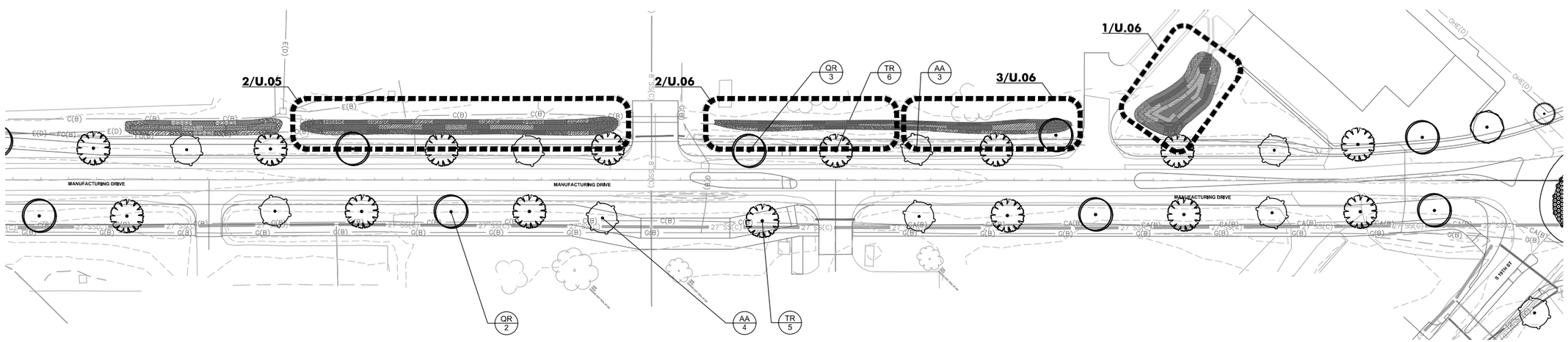
1" = 10'

10 5 0 10

PLANT LEGEND (SEE FULL SCHEDULE ON U.09)

TREES	BOTANICAL / COMMON NAME
AA	Acer x freemanii 'Jeffsred' TM / Autumn Blaze Freeman Maple
QR	Quercus rubra / Red Oak
TR	Tilia americana 'Redmond' / Redmond American Linden

GROUND COVERS	BOTANICAL / COMMON NAME
	Agastache foeniculum / Blue Giant Hyssop
	Anemone canadensis / Canadian Anemone
	Aquilegia canadensis / Eastern Columbine
	Bouteloua curtipendula / Side Oats Grama
	Carex vulpinoidea / Fox Sedge
	Geranium maculatum / Spotted Geranium
	Ruellia humilis / Wild Petunia
	Sporobolus heterolepis / Prairie Dropseed
	Tradescantia ohiensis / Ohio Spiderwort



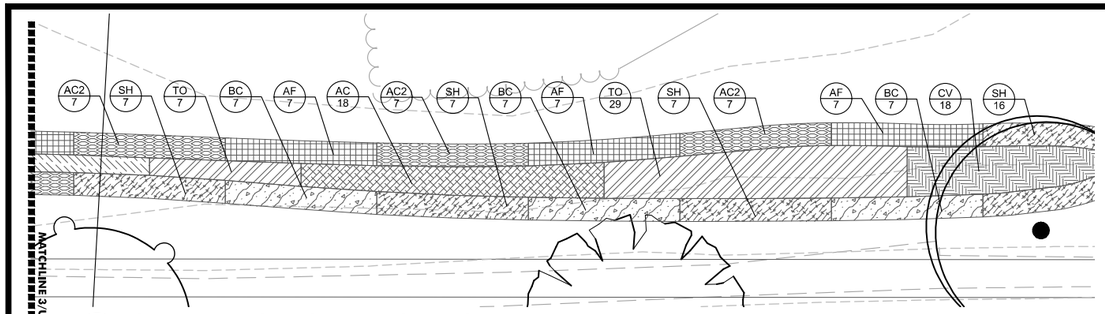
1 LANDSCAPE PLAN ENLARGEMENT (STA 56+38 - 66+42)

1" = 50'

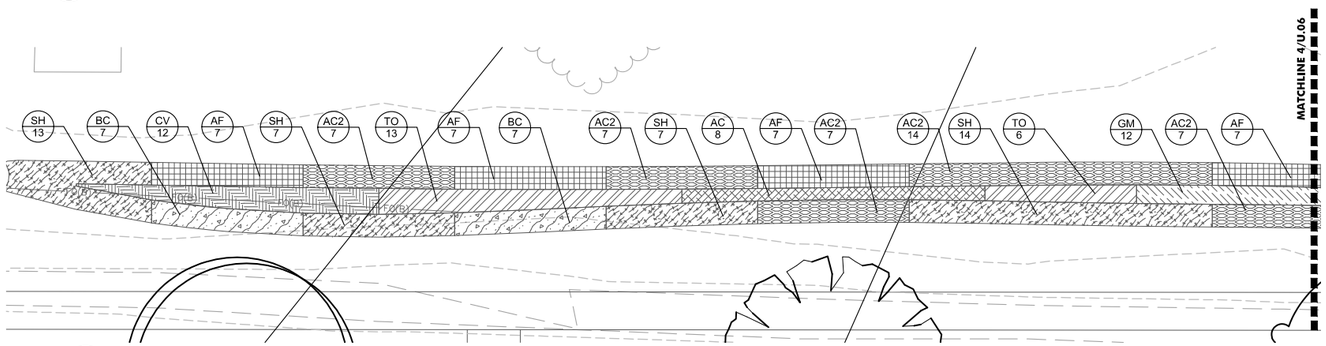
50 25 0 50

FILE NO.	ENGLISH	DESIGN TEAM McCLURE	CLINTON COUNTY	PROJECT NUMBER 30618011-000	SHEET NUMBER U.05	REVISED

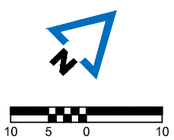
SYSTEMTIME SYSTEMDATE USERNAME DGNSPEC

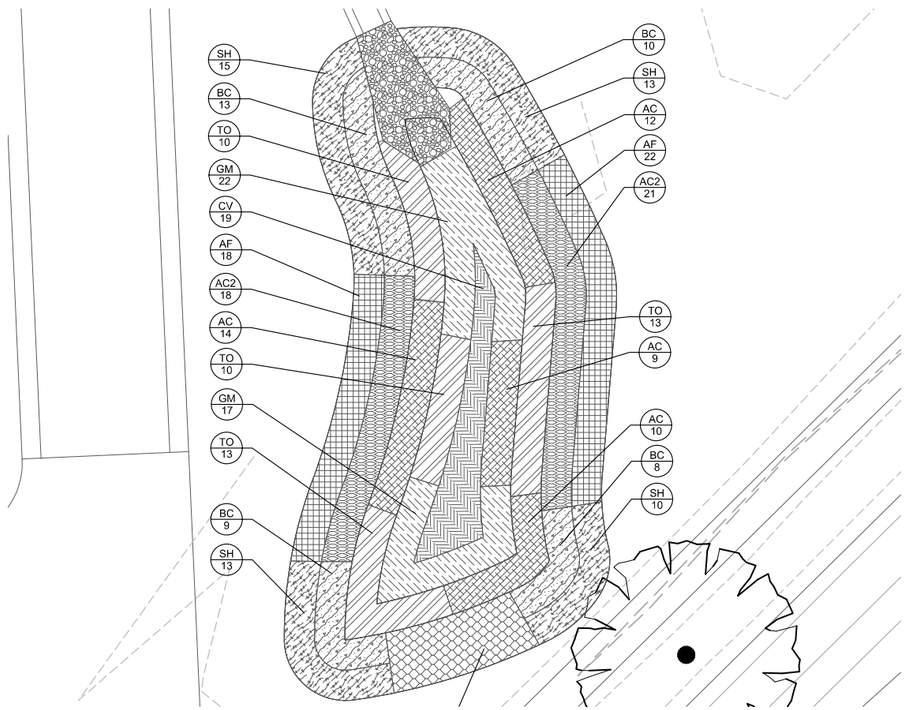


4 GREEN INFRASTRUCTURE FACILITY 'C'
1" = 10'

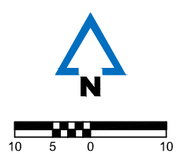


3 GREEN INFRASTRUCTURE FACILITY 'C'
1" = 10'





1 GREEN INFRASTRUCTURE FACILITY 'D'
1" = 10'



PLANT LEGEND (SEE FULL SCHEDULE ON U.09)

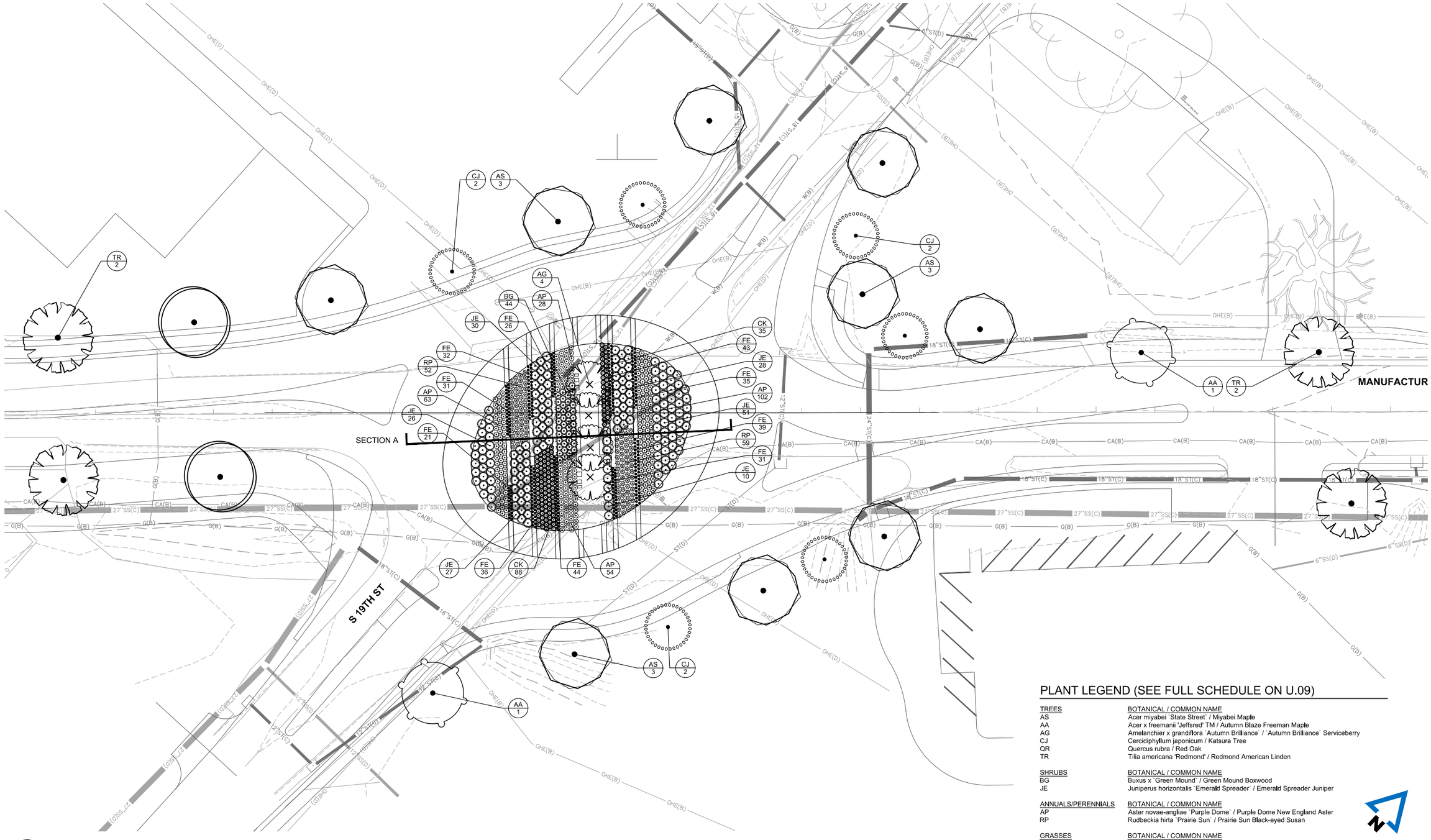
TREES	BOTANICAL / COMMON NAME
AS	Acer miyabei `State Street` / Miyabei Maple
AA	Acer x freemanii 'Jeffsred' TM / Autumn Blaze Freeman Maple
AG	Amelanchier x grandiflora `Autumn Brilliance` / `Autumn Brilliance` Serviceberry
CJ	Cercidiphyllum japonicum / Katsura Tree
CF	Cercis canadensis `Forest Pansy` TM / Forest Pansy Redbud
E5	Existing to Remain
PF	Pinus flexilis `Vanderwolf`s Pyramid` / Vanderwolf`s Pyramid Pine
QR	Quercus rubra / Red Oak
TR	Tilia americana 'Redmond' / Redmond American Linden
TG	Tilia cordata `Greenspire` / Greenspire Linden

SHRUBS	BOTANICAL / COMMON NAME
BG	Buxus x `Green Mound` / Green Mound Boxwood
JE	Juniperus horizontalis `Emerald Spreader` / Emerald Spreader Juniper

ANNUALS/PERENNIALS	BOTANICAL / COMMON NAME
AP	Aster novae-angliae `Purple Dome` / Purple Dome New England Aster
RP	Rudbeckia hirta `Prairie Sun` / Prairie Sun Black-eyed Susan

GRASSES	BOTANICAL / COMMON NAME
CK	Calamagrostis x acutiflora `Karl Foerster` / Feather Reed Grass
FE	Festuca glauca `Elijah Blue` / Elijah Blue Fescue

GROUND COVERS	BOTANICAL / COMMON NAME
	Agastache foeniculum / Blue Giant Hyssop
	Anemone canadensis / Canadian Anemone
	Aquilegia canadensis / Eastern Columbine
	Bioretention Bioswale / Bioswale Mix RE: 3/L201
	Bouteloua curtipendula / Side Oats Grama
	Carex vulpinoidea / Fox Sedge
	Geranium maculatum / Spotted Geranium
	Ruellia humilis / Wild Petunia
	Sporobolus heterolepis / Prairie Dropseed
	Tradescantia ohiensis / Ohio Spiderwort



PLANT LEGEND (SEE FULL SCHEDULE ON U.09)

TREES	BOTANICAL / COMMON NAME
AS	Acer miyabei `State Street` / Miyabei Maple
AA	Acer x freemanii 'Jeffsred' TM / Autumn Blaze Freeman Maple
AG	Amelanchier x grandiflora `Autumn Brilliance` / `Autumn Brilliance` Serviceberry
CJ	Cercidiphyllum japonicum / Katsura Tree
QR	Quercus rubra / Red Oak
TR	Tilia americana 'Redmond' / Redmond American Linden

SHRUBS	BOTANICAL / COMMON NAME
BG	Buxus x `Green Mound` / Green Mound Boxwood
JE	Juniperus horizontalis `Emerald Spreader` / Emerald Spreader Juniper

ANNUALS/PERENNIALS	BOTANICAL / COMMON NAME
AP	Aster novae-angliae `Purple Dome` / Purple Dome New England Aster
RP	Rudbeckia hirta `Prairie Sun` / Prairie Sun Black-eyed Susan

GRASSES	BOTANICAL / COMMON NAME
CK	Calamagrostis x acutiflora `Karl Foerster` / Feather Reed Grass
FE	Festuca glauca `Elijah Blue` / Elijah Blue Fescue

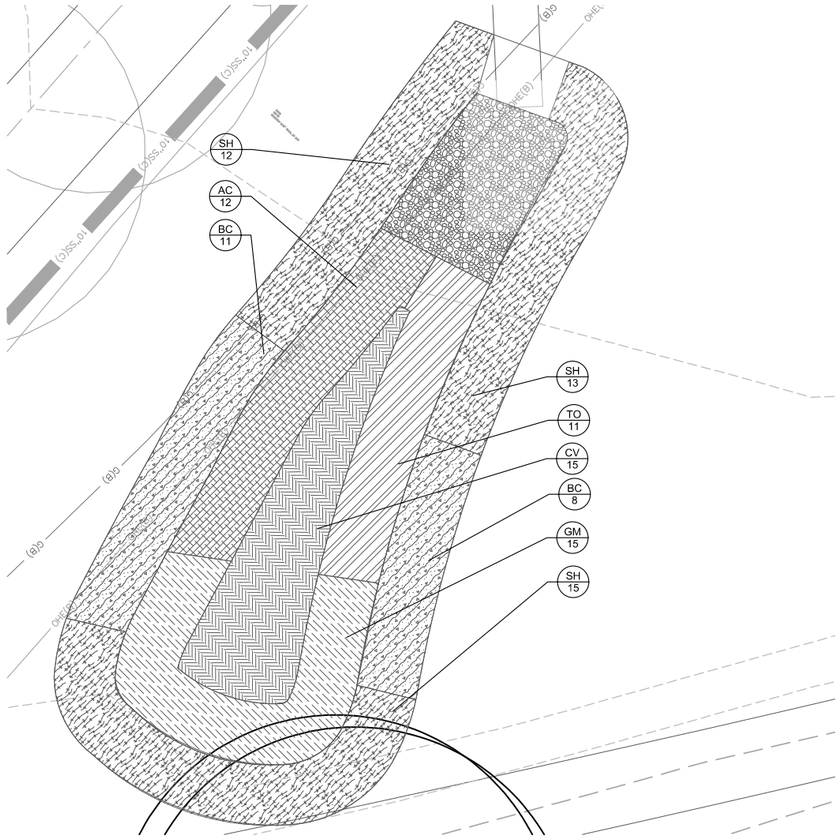
40 20 0 40

1 LANDSCAPE PLAN ENLARGEMENT (STA 66+42 - 72+42)

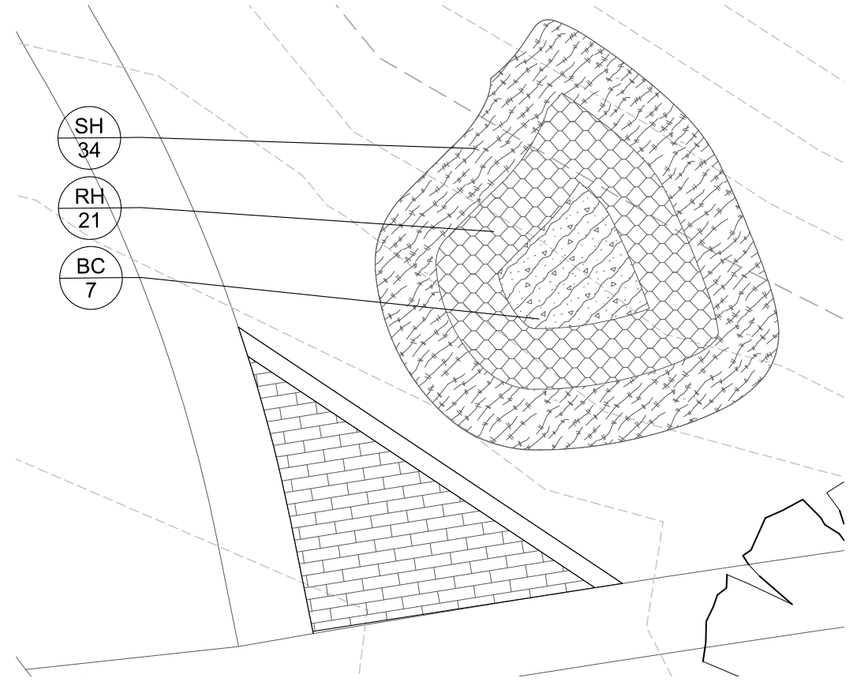
1" = 20'

FILE NO.	ENGLISH	DESIGN TEAM McCLURE	CLINTON COUNTY	PROJECT NUMBER 30618011-000	SHEET NUMBER U.07	REVISED

SYSTEMTIME SYSTEMDATE USERNAME DGNSPEC



2 GREEN INFRASTRUCTURE FACILITY 'E'
1" = 5'

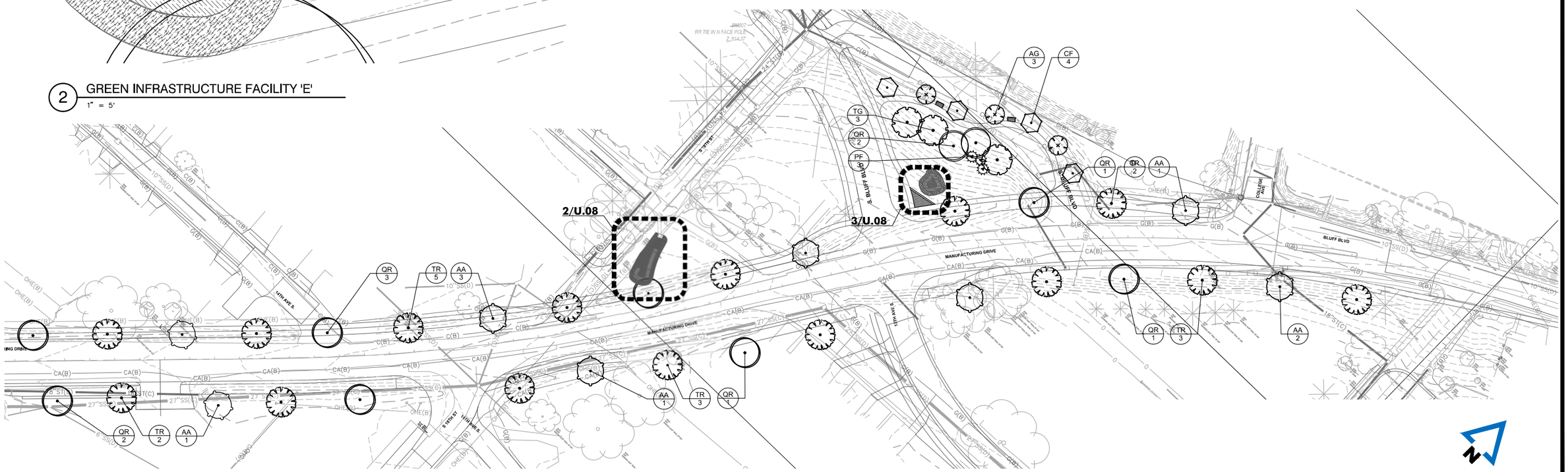


3 GREEN INFRASTRUCTURE FACILITY 'F'
1" = 5'

PLANT LEGEND (SEE FULL SCHEDULE ON U.09)

TREES	BOTANICAL / COMMON NAME
AA	Acer x freemanii 'Jeffsred' TM / Autumn Blaze Freeman Maple
QR	Quercus rubra / Red Oak
TR	Tilia americana 'Redmond' / Redmond American Linden

GROUND COVERS	CODE	BOTANICAL / COMMON NAME
	AC	Aquilegia canadensis / Eastern Columbine
	BC	Bouteloua curtipendula / Side Oats Grama
	CV	Carex vulpinoidea / Fox Sedge
	GM	Geranium maculatum / Spotted Geranium
	RR	Rock Mulch / River Rock Mulch
	SH	Sporobolus heterolepis / Prairie Dropseed
	TO	Tradescantia ohiensis / Ohio Spiderwort



1 LANDSCAPE PLAN ENLARGEMENT (STA 72+42 - 87+68)
1" = 50'

50 25 0 50

FILE NO.	ENGLISH	DESIGN TEAM McCLURE	CLINTON COUNTY	PROJECT NUMBER 30618011-000	SHEET NUMBER U.08	REVISED

SYSTEMTIME SYSTEMDATE USERNAME DGNSPEC

PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL
	AS	9	Acer miyabei `State Street` / Miyabei Maple	B & B	2"Cal
	AA	46	Acer x freemanii 'Jeffsred' TM / Autumn Blaze Freeman Maple	B & B	2"Cal
	AG	7	Amelanchier x grandiflora `Autumn Brilliance` / `Autumn Brilliance` Serviceberry	B & B	2"Cal
	CJ	6	Cercidiphyllum japonicum / Katsura Tree	B & B	2"Cal
	CF	4	Cercis canadensis `Forest Pansy` TM / Forest Pansy Redbud	B & B	2"Cal
	E5	16	Existing to Remain	Existing	
	PF	3	Pinus flexilis `Vanderwolf`s Pyramid` / Vanderwolf`s Pyramid Pine	B & B	6`-8` Ht.
	QR	41	Quercus rubra / Red Oak	B & B	2.5"Cal
	TR	83	Tilia americana 'Redmond' / Redmond American Linden	B & B	2.5"Cal
	TG	3	Tilia cordata `Greenspire` / Greenspire Linden	B & B	2.5"Cal

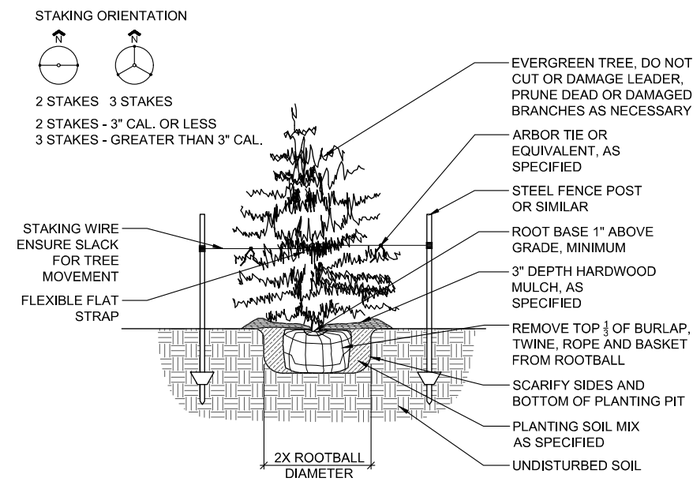
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	CONT
	BG	44	Buxus x `Green Mound` / Green Mound Boxwood	3 gal
	JE	172	Juniperus horizontalis `Emerald Spreader` / Emerald Spreader Juniper	3 gal

ANNUALS/PERENNIALS	CODE	QTY	BOTANICAL / COMMON NAME	CONT
	AP	247	Aster novae-angliae `Purple Dome` / Purple Dome New England Aster	1 gal
	RP	111	Rudbeckia hirta `Prairie Sun` / Prairie Sun Black-eyed Susan	1 gal

GRASSES	CODE	QTY	BOTANICAL / COMMON NAME	CONT
	CK	123	Calamagrostis x acutiflora `Karl Foerster` / Feather Reed Grass	1 gal
	FE	338	Festuca glauca `Elijah Blue` / Elijah Blue Fescue	4"pot

GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	CONT	
	AF	178	Agastache foeniculum / Blue Giant Hyssop	1 Gal.	36" o.c.
	AC2	172	Anemone canadensis / Canadian Anemone	1 Gal.	36" o.c.
	AC	184	Aquilegia canadensis / Eastern Columbine	1 Gal.	36" o.c.
	BC	201	Bouteloua curtipendula / Side Oats Grama	1 Gal.	36" o.c.
	CV	133	Carex vulpinoidea / Fox Sedge	1 Gal.	36" o.c.
	GM	92	Geranium maculatum / Spotted Geranium	1 Gal.	36" o.c.
	RR	222 sf	Rock Mulch / River Rock Mulch	SF	
	RH	39	Ruellia humilis / Wild Petunia	1 Gal.	36" o.c.
	SH	365	Sporobolus heterolepis / Prairie Dropseed	1 Gal.	36" o.c.
	TO	172	Tradescantia ohiensis / Ohio Spiderwort	1 Gal.	36" o.c.

1 PLANT SCHEDULE
NTS



4 CONIFEROUS TREE PLANTING
1/2" = 1'-0" 329343.01-01

LANDSCAPE PLAN NOTES:

1. EXISTING UNDERGROUND (U/G), OVERHEAD (O.H.) UTILITIES AND DRAINAGE STRUCTURES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS THE RESPONSIBILITY OF THE INDIVIDUAL CONTRACTORS TO VERIFY EXISTENCE AND LOCATION OF ALL UTILITIES BEFORE STARTING ANY WORK.

2. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL GIVE 72 HOURS ADVANCED NOTICE TO ALL THOSE COMPANIES/UTILITIES WHICH HAVE FACILITIES IN THE NEAR VICINITY OF THE CONSTRUCTION SITE.

3. CONTRACTOR SHALL VERIFY ALL LANDSCAPE MATERIAL QUANTITIES AND SHALL REPORT ANY DISCREPANCIES IMMEDIATELY TO THE LANDSCAPE ARCHITECT.

4. CONTRACTOR SHALL STAKE/LAYOUT PLANT LOCATIONS IN THE FIELD & HAVE APPROVAL BY LANDSCAPE ARCHITECT BEFORE PROCEEDING WITH INSTALLATION.

5. NO SUBSTITUTIONS (INCL. CULTIVARS) SHALL BE ACCEPTED WITHOUT WRITTEN APPROVAL PER SPECIFICATIONS. PROPOSED PLANT SUBSTITUTIONS REQUIRE APPROVAL OF THE LANDSCAPE ARCHITECT, RIVERSIDE, MO & THE OWNER'S REPRESENTATIVE.

6. ALL PLANT MATERIAL SHALL BE OF EXCELLENT QUALITY, FREE OF DISEASE & INFESTATION-TRUE TO TYPE, VARIETY, SIZE SPECIFIED, & FORM PER ANSA STANDARDS.

7. ALL PROPOSED TREES AND SHRUBS SHALL BE LAID OUT IN A UNIFORM AND CONSISTENT PATTERN, FOLLOWING THE LANDSCAPE PLAN ACCURATELY. INSTALL ALL PLANTS PER PLANTING DETAILS.

8. ALL TREES & MULCH BEDS (UNLESS ROCK MULCH) SHALL RECEIVE 3" MIN. OF SHREDDED DARK PREMIUM HARDWOOD MULCH, AS DETAILED. ADD PREEN OR SNAPSHOT TO BEDS BEFORE & AFTER MULCHING FROM MARCH 1 TO OCTOBER 1. IF WINTER INSTALLATION, RETURN NEXT SPRING & INSTALL PREEN/SNAPSHOT WITH NEW MULCH.

9. TREE TIES SHALL BE DEWITT 20" STRAPS FOR TREE STAKING. USE 10 GAUGE ELECTRIC WIRE. TREES AND STAKES SHALL BE STRAIGHT, PLUMB AND TAUT. TREE STAKES TO BE REMOVED WINTER OF YEAR 2 AFTER INSTALLATION.

10. CONTRACTOR SHALL THOROUGHLY WATER-IN EACH PLANT IMMEDIATELY FOLLOWING INSTALLATION AND CONTINUE WATERING UNTIL SUBSTANTIAL COMPLETION. CONTRACTOR REQUIRED TO COORDINATE WATERING WITH THE OWNER AFTER SUBSTANTIAL COMPLETION. PROVIDE HOURLY RATE TO WATER THE SITE, IF IRRIGATION NOT INSTALLED OR NOT WORKING.

11. ALL AREAS OF THE SITE DISTURBED DURING CONSTRUCTION THAT ARE NOT DESIGNATED AS BEDS / PAVEMENT AREAS SHALL BE SEEDED WITH 90% TURF-TYPE TALL FESCUE AND 10% BLUEGRASS MIX.

12. CONTRACTOR SHALL THOROUGHLY WATER-IN EACH PLANT IMMEDIATELY FOLLOWING INSTALLATION AND CONTINUE WATERING THROUGH SUBSTANTIAL COMPLETION TO ENSURE HEALTHY ESTABLISHMENT. CONTRACTOR REQUIRED TO COORDINATE WATERING WITH THE OWNER AFTER SUBSTANTIAL COMPLETION. PROVIDE HOURLY RATE TO WATER THE SITE, IF IRRIGATION NOT INSTALLED OR NOT WORKING.

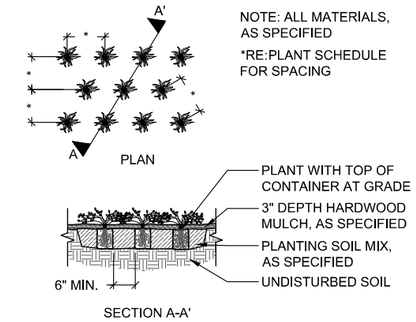
13. CONTRACTOR SHALL BE RESPONSIBLE FOR CALCULATING ALL AREAS OF SOD, ROCK & MULCH AND THE AMOUNTS OF EACH NEEDED FOR OPTIMUM COVERAGE.

14. NO TREES SHALL BE PLANTED OVER TOP OF ANY UTILITY LINES OR PIPES. CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO PLANTING AND ANY MODIFICATIONS TO TREE LOCATIONS SHALL BE COORDINATED WITH THE LANDSCAPE ARCHITECT AND APPROVED BY THE CITY PRIOR TO PLANTING.

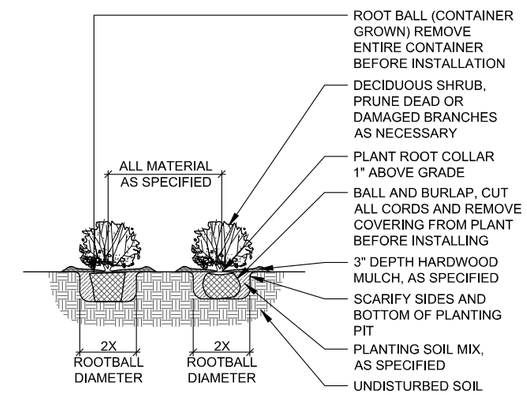
15. ALL PLANT MATERIALS AND IRRIGATION SYSTEM SHALL BE GUARANTEED FOR 1 YEAR FROM DATE OF SUBSTANTIAL COMPLETION. PLANT MATERIALS WILL BE ONE TIME REPLACEMENT AND RECORDS KEPT BY THE LANDSCAPE CONTRACTOR FOR ALL REPLACEMENTS.

16. ALL WIRE, TWINE AND BURLAP SHALL BE REMOVED FROM THE ROOTBALL OF STREET TREES PRIOR TO PLANTING.

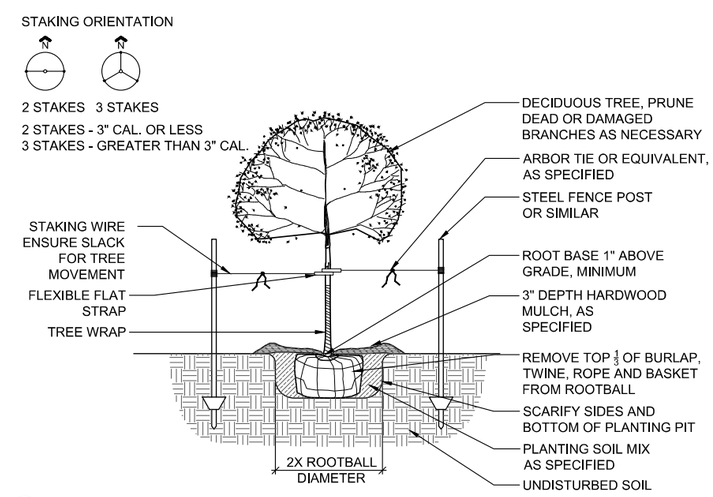
2 GENERAL LANDSCAPE NOTES
NTS



6 GROUNDCOVER PLANTING
1" = 1'-0" 329333-03

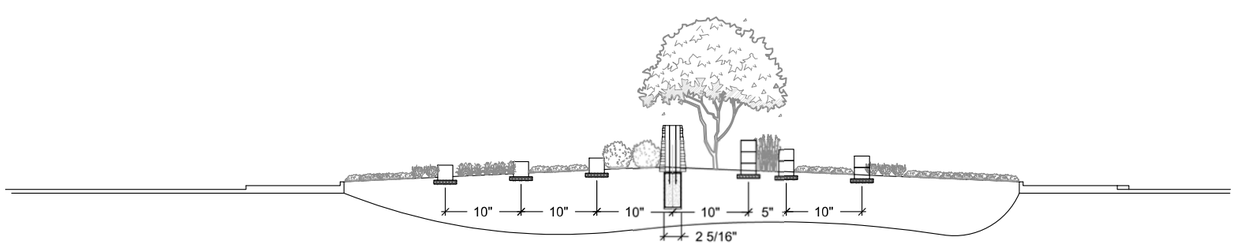


5 SHRUB AND PERENNIAL PLANTING
1/2" = 1'-0" 329333-04

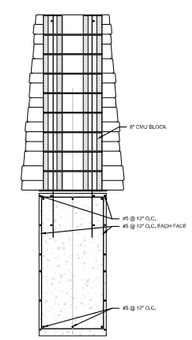


3 DECIDUOUS TREE PLANTING
1/2" = 1'-0" 329343.02-01

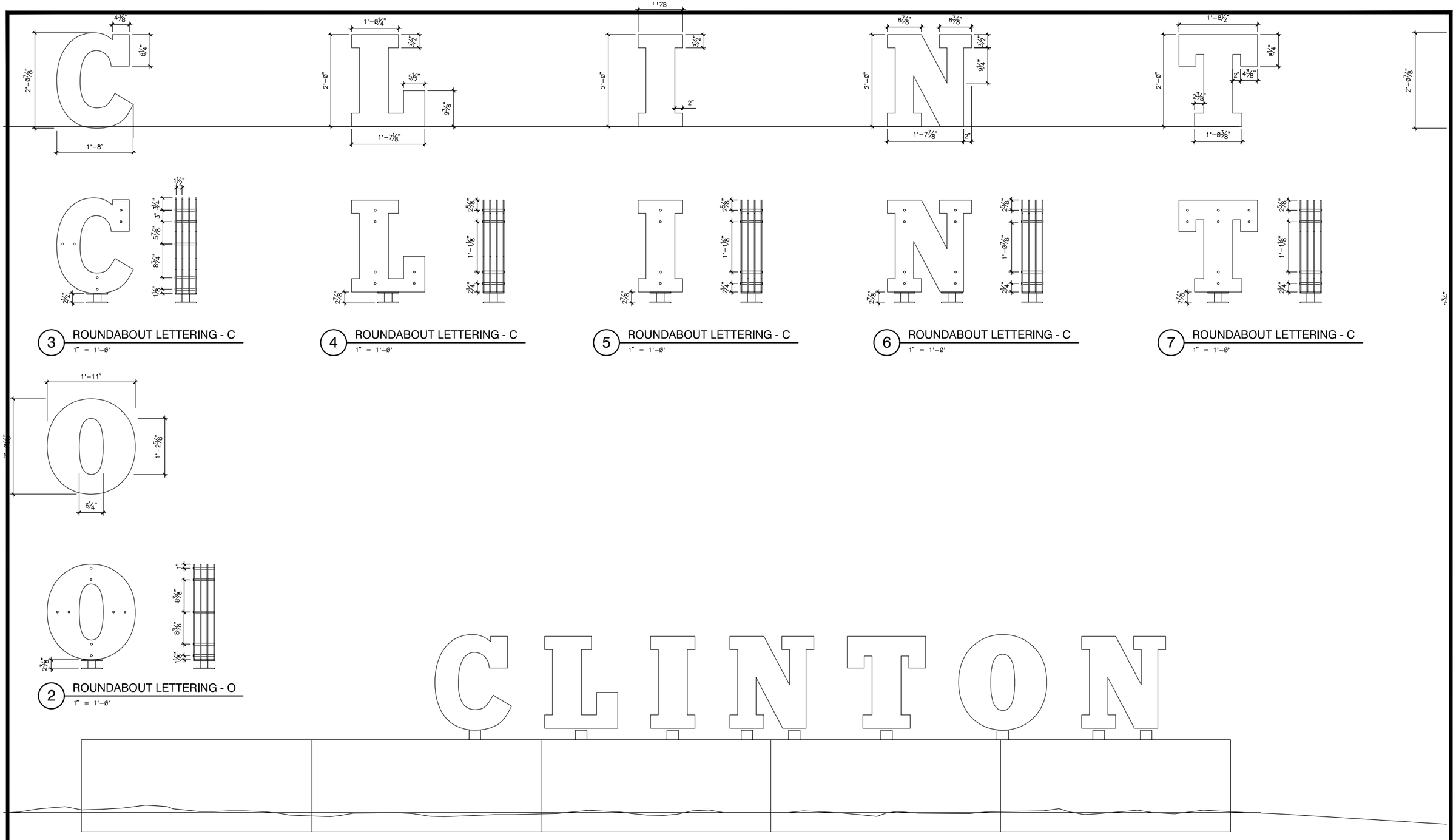
1 STACKED LIMESTONE BLOCK
1" = 10'



1 ROUNDABOUT SECTION A
1" = 10'



1 CENTERED LANDSCAPE WALL DETAIL
1" = 10'



3 ROUNDABOUT LETTERING - C
1" = 1'-0"

4 ROUNDABOUT LETTERING - C
1" = 1'-0"

5 ROUNDABOUT LETTERING - C
1" = 1'-0"

6 ROUNDABOUT LETTERING - C
1" = 1'-0"

7 ROUNDABOUT LETTERING - C
1" = 1'-0"

2 ROUNDABOUT LETTERING - O
1" = 1'-0"

1 ROUNDABOUT SECTION
1" = 10'

FILE NO.	ENGLISH	DESIGN TEAM McCLURE	CLINTON COUNTY	PROJECT NUMBER 30618011-000	SHEET NUMBER U.11	REVISED

SYSTEMTIME SYSTEMDATE USERNAME DGNSPEC