SHEET NO.	TOTAL SHEETS
1	40

INDEX OF SHEETS

1	TITLE SHEET	1
2	QUANTITIES SHEET	OMITTED
3-3B	TYPICAL SECTIONS	3
4	RIGHT-OF-WAY DATA SHEET	1
4A-4B	PROPERTY STRIP MAP	2
5	GENERAL CONSTRUCTION SHEET	OMITTED
5A	REFERENCE DATA SHEETS	1
5B-5D	SUPPLEMENTAL SPECIFICATION SHEETS	3
6 - 9A	PLAN & PROFILE SHEETS	8
D1-	DRAINAGE PLAN SHEETS	OMITTED
L1-L4	LANDSCAPING SHEETS	4
EC1	EROSION CONTROL DATA SHEET	OMITTED
X1-X17	CROSS SECTIONS	17
		TOTAL 40

SCDOT
South Carolina Department of Transportation

COLUMBIA
A Capital Place To Be

PRELIMINARY PLANS FOR

CITY OF COLUMBIA
ASSEMBLY STREET (SC-48) PHASE II IMPROVEMENTS
FROM S-174 (PENDLETON STREET) TO LADY STREET

Hydraulic Design Reference for these plans is the:
2009
Edition of SCDOT's "Requirements for Hydraulic Design Studies"

Design Reference for these plans is the:
2021
SCDOT Roadway Design Manual

NPDES PERMIT INFORMATION

Disturbed Area = 0.0132 Acre(s)

Permitted Area = 2.0132 Acre(s)

Approximate Location of Roadway is

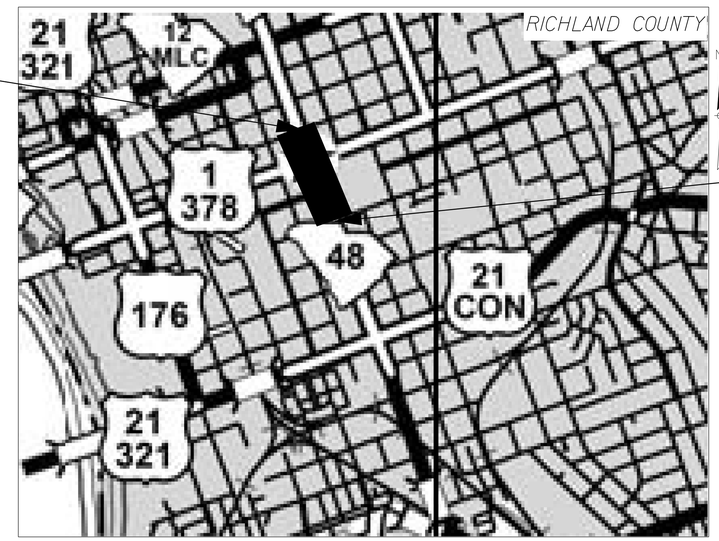
Begin
Latitude 33°59'53" N
Longitude 81°02'02" N

End
Latitude 34°00'07" N
Longitude 81°02'09" N

Hydraulic and NPDES Design provided by:
MEAD & HUNT, INC.

Designs may be obtained from the SCDOT Regional Production Group

END CONSTRUCTION
ASSEMBLY STREET
STA. 536+41.68



BEGIN CONSTRUCTION
ASSEMBLY STREET
STA. 519+85.00

LAYOUT
SCALE 1 INCH = NTS

SCDOT REVIEW	RIGHT-OF-WAY INITIAL	RIGHT-OF-WAY DATE	CONSTRUCTION INITIAL	CONSTRUCTION DATE
PRECONSTRUCTION SUPPORT - ROAD				
PRECONSTRUCTION SUPPORT - STRUCTURES				
RPG - DESIGN MANAGER				
RPG - PROGRAM MANAGER				

THE INITIALS ABOVE DO NOT RELIEVE THE ENGINEER OF RECORD OF THE RESPONSIBILITY TO DESIGN THIS PROJECT IN ACCORDANCE WITH ALL APPLICABLE CRITERIA.

ENVIRONMENTAL PERMIT INFORMATION

USACE PERMIT	___YES	X NO
NEPA DOCUMENT	X YES	___NO
401 CERTIFICATION	___YES	X NO
OCRM CAP	___YES	X NO
NAVIGABLE WATERS		
___SC ___USCG ___USACE		X N/A

3 DAYS BEFORE DIGGING IN SOUTH CAROLINA
CALL 811
SOUTH CAROLINA 811 (SC811)
WWW.SC811.COM
ALL UTILITIES MAY NOT BE A MEMBER OF SC811

RAILROAD INVOLVEMENT?
YES / NO

MAINLINE TRAFFIC DATA

SC 48	2022	ADT	23,240
SC 48	2042	ADT	36,311
		TRUCKS	3%

	ASSEMBLY MAIN LINE	
NET LENGTH OF ROADWAY	0.314	MILES
NET LENGTH OF BRIDGES	0.000	MILES
NET LENGTH OF PROJECT	0.314	MILES
LENGTH OF EXCEPTIONS	0.000	MILES
GROSS LENGTH OF PROJECT	0.314	MILES

STATION EQUALITIES = NONE

NOTE: EXCEPT AS MAY OTHERWISE BE SPECIFIED ON THE PLANS OR IN THE SPECIAL PROVISIONS, ALL MATERIALS AND WORKMANSHIP ON THIS PROJECT SHALL CONFORM TO THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2007 EDITION) AND THE STANDARD DRAWINGS FOR ROAD CONSTRUCTION IN EFFECT AT THE TIME OF LETTING.

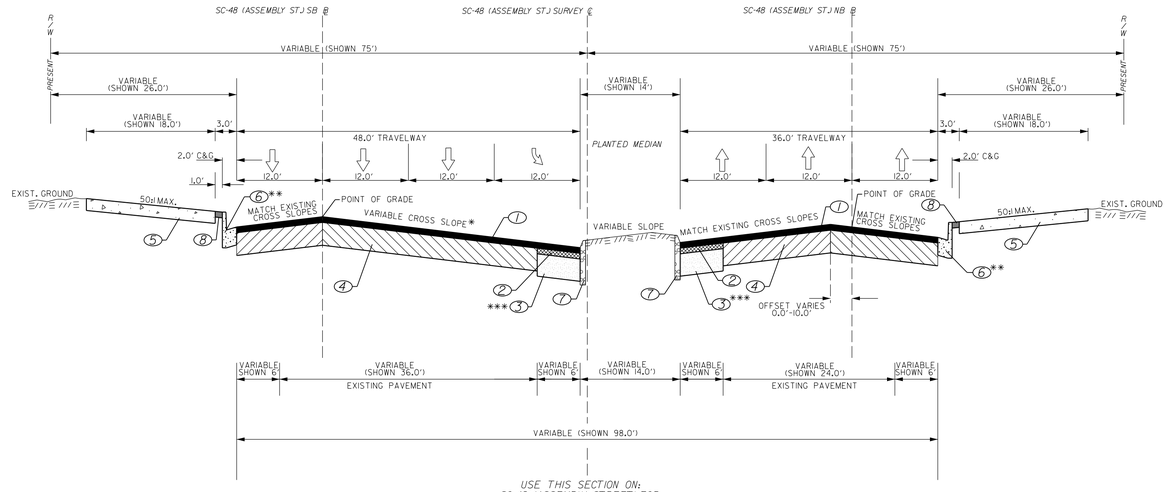
CONSULTING ENGINEERING FIRM
Mead & Hunt
878 SOUTH LAKE DRIVE
LEXINGTON, SC 29072

NOT FOR CONSTRUCTION

FED. RD. DIV. NO.	STATE	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	2H36I.01	SC-48	3

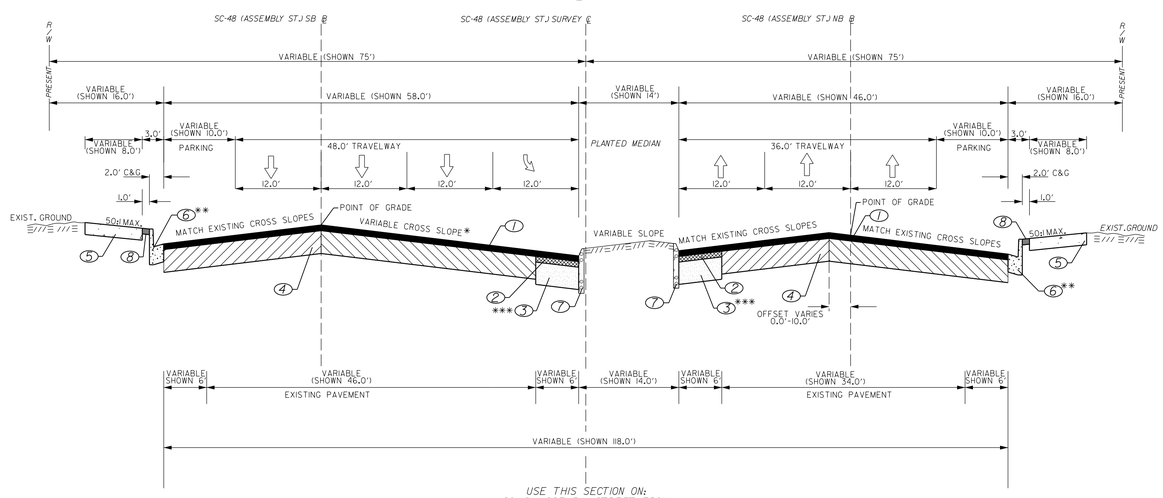
TYPICAL SECTION OF IMPROVEMENT
RICHLAND COUNTY - (SC-48) ASSEMBLY ST.

1



USE THIS SECTION ON:
SC-48 (ASSEMBLY STREET) FOR:
STA.519 + 85.00 TO STA.520 + 35.47
STA.530 + 81.38 TO STA.531 + 38.28
STA.535 + 77.93 TO STA.536 + 41.68

2



USE THIS SECTION ON:
SC-48 (ASSEMBLY STREET) FROM:
STA.520 + 35.47 TO STA.522 + 26.09
STA.531 + 38.28 TO STA.533 + 28.00

* PAVEMENT WILL BE BUILT UP BETWEEN THE SOUTHBOUND BASELINE AND THE LEFT MEDIAN CURB FOR DRAINAGE IMPROVEMENT AND TO MINIMIZE NORTHBOUND AND SOUTHBOUND GRADE BRAKE. SEE CROSS-SECTION SHEETS FOR FINAL DESIGN CROSS SLOPES IN THIS REGION.

** ALL CURB AND GUTTER WILL BE NEW CONSTRUCTION AND WILL REPLACE EXISTING CURB AND GUTTER.

*** FULL DEPTH PAVEMENT WILL BE INSTALLED ONLY IN AREAS WHERE EXISTING MEDIAN OR CURB ARE TO BE REMOVED AND REPLACED BY NEW PAVEMENT OR WHERE EXISTING PAVEMENT DOES NOT HAVE SUFFICIENT DEPTH FOR MILL AND OVERLAY

LEGEND

1. HOTMIX ASPHALT SURFACE COURSE TYPE B
2. HOTMIX ASPHALT INTERMEDIATE COURSE TYPE B
3. HOTMIX ASPHALT BASE COURSE TYPE A
4. EXISTING PAVEMENT
5. CONCRETE SIDEWALK (4" UNIFORM)
6. CONCRETE CURB & GUTTER (2'-0")
7. CONCRETE CURB (9"x15")
8. 1' BRICK PAVERS

FUNCTIONAL CLASSIFICATION:
SC-48 (ASSEMBLY STREET) URBAN - PRINCIPAL ARTERIAL

RTE.	DESIGN SPEED		
	MPH	FROM STA.	TO STA.
S-48	40 M.P.H.	519 + 85.00	536 + 41.68
EXCEPTIONS TO DESIGN SPEED			

PAVEMENT DESIGN

APPROVED BY

DATE

DWG. ____ DATE _____

CKD. ____ DATE _____

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ASSEMBLY STREET PHASE II
CITY OF COLUMBIA
COLUMBIA, SOUTH CAROLINA

Mead & Hunt

TYPICAL SECTIONS

SCALE: 1" = NTS

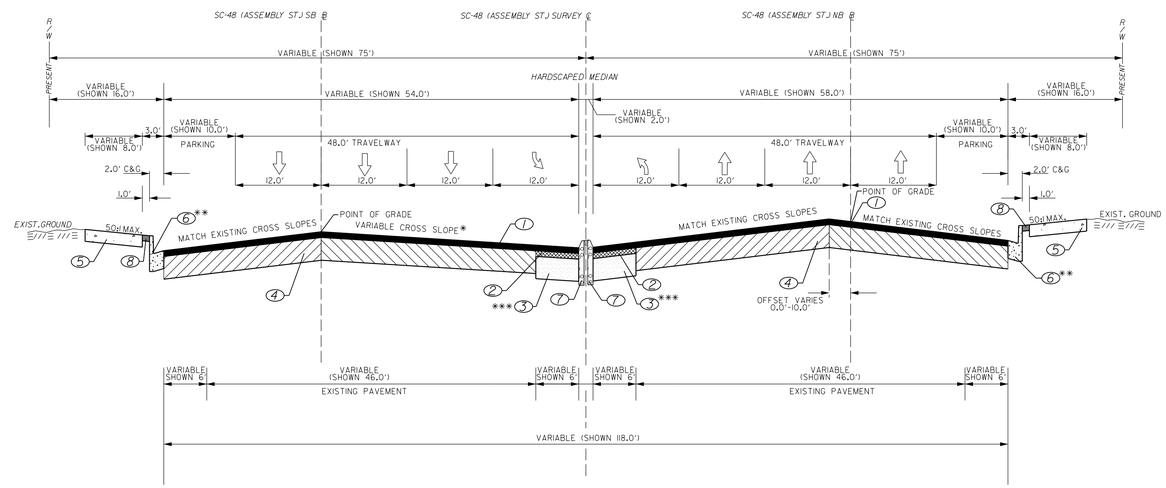
SHEET 3

FED. RD. DIV. NO.	STATE	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	2113611.01	SC-48	3A

* PAVEMENT WILL BE BUILT UP BETWEEN THE SOUTHBOUND BASELINE AND THE LEFT MEDIAN CURB FOR DRAINAGE IMPROVEMENT AND TO MINIMIZE NORTHBOUND AND SOUTHBOUND GRADE BRAKE. SEE CROSS-SECTION SHEETS FOR FINAL DESIGN CROSS SLOPES IN THIS REGION.

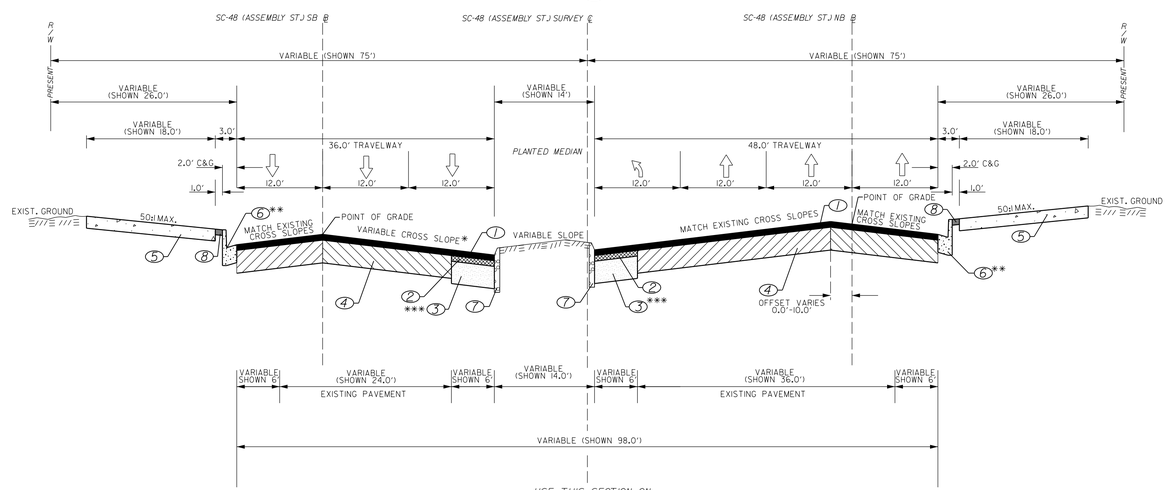
TYPICAL SECTION OF IMPROVEMENT
RICHLAND COUNTY - (S-48) ASSEMBLY ST.

3



USE THIS SECTION ON:
SC-48 (ASSEMBLY STREET) FROM:
STA.522 + 26.09 TO STA.524 + 11.45

4



USE THIS SECTION ON:
SC-48 (ASSEMBLY STREET) FOR:
STA.524 + 11.45 TO STA.525 + 88.25
STA.529 + 51.79 TO STA.530 + 81.38
STA.534 + 98.24 TO STA.535 + 77.93

* PAVEMENT WILL BE BUILT UP BETWEEN THE SOUTHBOUND BASELINE AND THE LEFT MEDIAN CURB FOR DRAINAGE IMPROVEMENT AND TO MINIMIZE NORTHBOUND AND SOUTHBOUND GRADE BRAKE. SEE CROSS-SECTION SHEETS FOR FINAL DESIGN CROSS SLOPES IN THIS REGION.

** ALL CURB AND GUTTER WILL BE NEW CONSTRUCTION AND WILL REPLACE EXISTING CURB AND GUTTER.

*** FULL DEPTH PAVEMENT WILL BE INSTALLED ONLY IN AREAS WHERE EXISTING MEDIAN OR CURB ARE TO BE REMOVED AND REPLACED BY NEW PAVEMENT OR WHERE EXISTING PAVEMENT DOES NOT HAVE SUFFICIENT DEPTH FOR MILL AND OVERLAY

LEGEND

1. HOTMIX ASPHALT SURFACE COURSE TYPE B
2. HOTMIX ASPHALT INTERMEDIATE COURSE TYPE B
3. HOTMIX ASPHALT BASE COURSE TYPE A
4. EXISTING PAVEMENT
5. CONCRETE SIDEWALK (4" UNIFORM)
6. CONCRETE CURB & GUTTER (2'-0")
7. CONCRETE CURB (9"x15")
8. 1' BRICK PAVERS

FUNCTIONAL CLASSIFICATION:
SC-48 (ASSEMBLY STREET) URBAN - PRINCIPAL ARTERIAL

RTE.	DESIGN SPEED		
	MPH	FROM STA.	TO STA.
S-48	40 M.P.H.	519+85.00	536+41.68
	EXCEPTIONS TO DESIGN SPEED		

PAVEMENT DESIGN

APPROVED BY

DATE

DWG. DATE

CKD. DATE

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ASSEMBLY STREET PHASE II
CITY OF COLUMBIA
COLUMBIA, SOUTH CAROLINA

Mead & Hunt

TYPICAL SECTIONS

SCALE: 1" = NTS

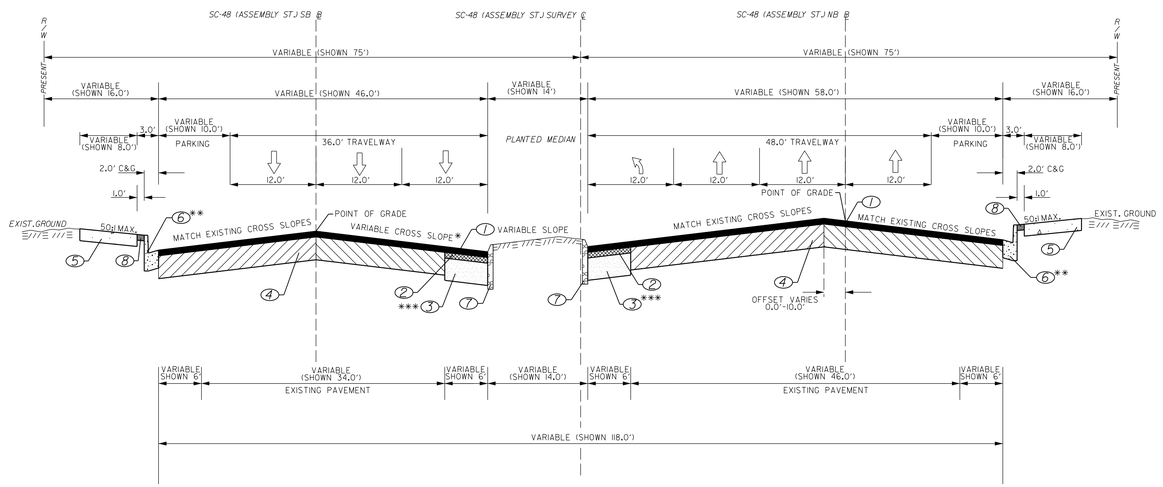
SHEET 3A

FED. RD. DIV. NO.	STATE	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	2H36L.01	SC-48	3B

* PAVEMENT WILL BE BUILT UP BETWEEN THE SOUTHBOUND BASELINE AND THE LEFT MEDIAN CURB FOR DRAINAGE IMPROVEMENT AND TO MINIMIZE NORTHBOUND AND SOUTHBOUND GRADE BRAKE.SEE CROSS-SECTION SHEETS FOR FINAL DESIGN CROSS SLOPES IN THIS REGION.

TYPICAL SECTION OF IMPROVEMENT
RICHLAND COUNTY - (S-48) ASSEMBLY ST.

5



USE THIS SECTION ON:
SC-48 (ASSEMBLY STREET) FROM:
STA.525 + 88.25 TO STA.529 + 51.79
STA.533 + 28.00 TO STA.534 + 98.24

* PAVEMENT WILL BE BUILT UP BETWEEN THE SOUTHBOUND BASELINE AND THE LEFT MEDIAN CURB FOR DRAINAGE IMPROVEMENT AND TO MINIMIZE NORTHBOUND AND SOUTHBOUND GRADE BRAKE.SEE CROSS-SECTION SHEETS FOR FINAL DESIGN CROSS SLOPES IN THIS REGION.

** ALL EXISTING CURB AND GUTTER WILL BE REMOVED AND REPLACED UNLESS OTHERWISE NOTED ON THE PLAN SHEETS

*** FULL DEPTH PAVEMENT WILL BE INSTALLED ONLY IN AREAS WHERE EXISTING MEDIAN OR CURB ARE TO BE REMOVED AND REPLACED BY NEW PAVEMENT OR WHERE EXISTING PAVEMENT DOES NOT HAVE SUFFICIENT DEPTH FOR MILL AND OVERLAY

LEGEND

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2. HOTMIX ASPHALT INTERMEDIATE COURSE TYPE B
3. HOTMIX ASPHALT BASE COURSE TYPE A
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8. 1' BRICK PAVERS

FUNCTIONAL CLASSIFICATION:
SC-48 (ASSEMBLY STREET) URBAN - PRINCIPAL ARTERIAL

RTE.	DESIGN SPEED		
	MPH	FROM STA.	TO STA.
S-48	40 M.P.H.	519+85.00	536+41.68
	EXCEPTIONS TO DESIGN SPEED		

PAVEMENT DESIGN

APPROVED BY

DATE

DWG. _____ DATE _____

CKD. _____ DATE _____

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ASSEMBLY STREET PHASE II
CITY OF COLUMBIA
COLUMBIA, SOUTH CAROLINA

Mead & Hunt

TYPICAL SECTIONS

SCALE: 1" = NTS

SHEET 3B

FED. RD. DIV. NO.	STATE	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	2H36L.01	SC-48	4

SCDOT
South Carolina Department of Transportation

RIGHT-OF-WAY DATA SHEET

TRACT NO.	PROPERTY OWNER	TAX MAP REFERENCE	TOTAL TRACT ACRES	OBTAIN				REMAINDER LEFT ACRES [A]	REMAINDER RIGHT ACRES [A]	DATE ACQUIRED	TYPE OF INSTRUMENT	PERMISSION (YES)					REMARKS
				OUTFALL DITCH	LEFT	RIGHT	TOTAL					OUTFALL DITCH	SLOPE	DRAINAGE STRUCTURE	EROSION CONTROL	DRIVEWAY TIE-IN	
1	SC NATL BANK OF CHARLESTON	R08916-06-01	0.66														
2	SC STATE HWY DEPT	R08916-05-02	0.17														
3	STATE OF SOUTH CAROLINA	R08916-05-01	3.90										YES			YES	
4	STATE OF SOUTH CAROLINA	R08916-04-01	10.02										YES			YES	
5	HAMILTON CAPITOL CENTER, LLC	R09013-08-14	0.81													YES	
6	CITY OF COLUMBIA	R09013-08-09	0.42													YES	
7	CITY OF COLUMBIA	R09013-08-12	0.04													YES	
8	CITT CENTER DEVELOPMENT, LLC	R09013-08-15	0.37														
9	CITY OF COLUMBIA	R09013-08-02	0.27														
10	1300 ASSEMBLY, LLC	R09013-05-10	0.49														
11	GALIUM 1333 MAIN, LLC	R09013-10-10A	1.53														
12	TPM REALTY, LLC	R09013-09-07	0.13														
13	TPM REALTY, LLC	R09013-09-08	0.15													YES	
14	THE BORING BUILDING, LLC	R09013-09-23	0.26														
15	CRISPY FLOUNDER, LLC	R09013-09-11	1.26													YES	
16	PINNACLE INC	R09013-09-12	1.10													YES	
17	CONSTANCE, LLC	R09013-09-14	0.27														
18	PC&R	R08916-03-07	0.87													YES	
19	PINNACLE INC	R08916-03-08	0.17													YES	
20	PAPADEA COMPANY	R08916-03-09	0.25													YES	
21	PAPADEA COMPANY	R08916-03-10	0.26														
22	STATE OF SOUTH CAROLINA	R08916-03-11	0.52													YES	
23	BLUECAKES, LLC	R08916-09-05	0.56										YES			YES	
24	LBA LADY, LLC	R08916-09-06	0.18													YES	
25	CD/PARK7 COLUMBIA SC HIGH RISE	R08916-09-08	2.07										YES				
26	UNIVERSITY OF SOUTH CAROLINA	R08916-07-01	3.41														

DATE	TRACT NO.	REMARKS

R/W NOTE:
THE DEPARTMENT WILL UTILIZE THE PRESENT RIGHT OF WAY AS SHOWN BELOW EXCEPT AS OTHERWISE SHOWN ON PLANS.

ROAD / ROUTE #	FILE #	R/W WIDTH	YEAR ACQ'D.

NOTES:
- **A.** SHOW REMAINDER IN SQUARE FEET WHEN LESS THAN 0.25 ACRE.
- **B.** PER NOTE ON SHT. 6 OF DKT NO. 32.846 "THE ENTIRE ROAD HAS BEEN QUITCLAIMED TO TOWN OF CHAPIN ON 10-17-06 INDEX 32-152"

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
7			
6			
5			
4			
3			
2			
1			

DWG. _____ DATE _____
CKD. _____ DATE _____

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ASSEMBLY STREET PHASE II
CITY OF COLUMBIA
COLUMBIA, SOUTH CAROLINA

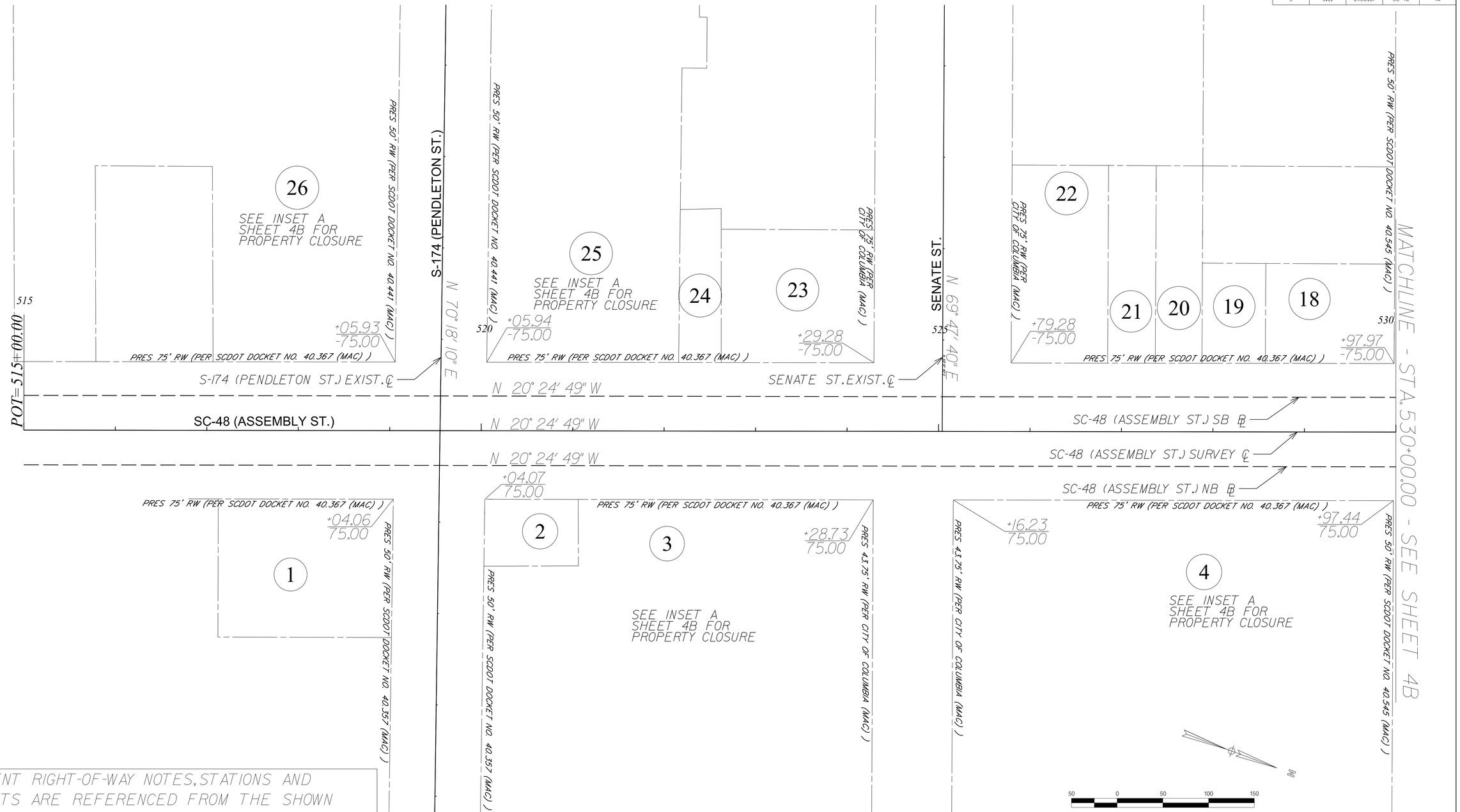
Mead & Hunt

RIGHT–OF–WAY
DATA SHEET

SCALE: 1" = N.T.S.

SHEET 4

FED. RD. DIV. NO.	STATE	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	2113361.01	SC-48	4A



PRESENT RIGHT-OF-WAY NOTES, STATIONS AND OFFSETS ARE REFERENCED FROM THE SHOWN SURVEY CENTERLINE FOR SC-48 (ASSEMBLY STREET).

SC-48 (ASSEMBLY ST.) PRESENT R/W VERIFIED FROM FILE 40.367
S-174 (PENDLETON ST.) PRESENT R/W EAST OF ASSEMBLY STREET VERIFIED FROM FILE 40.441
S-174 (PENDLETON ST.) PRESENT R/W WEST OF ASSEMBLY STREET VERIFIED FROM FILE 40.357
US-1 (GERVAIS ST.) PRESENT R/W VERIFIED FROM FILE 40.545
SENATE ST. IS LOCALLY MAINTAINED, PRESENT R/W PER DEED BOOK D327 AND PLAT BOOK RB1732

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
7			
6			
5			
4			
3			
2			
1			

DWG. ____ DATE ____
CKD. ____ DATE ____
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ASSEMBLY STREET PHASE II
CITY OF COLUMBIA
COLUMBIA, SOUTH CAROLINA

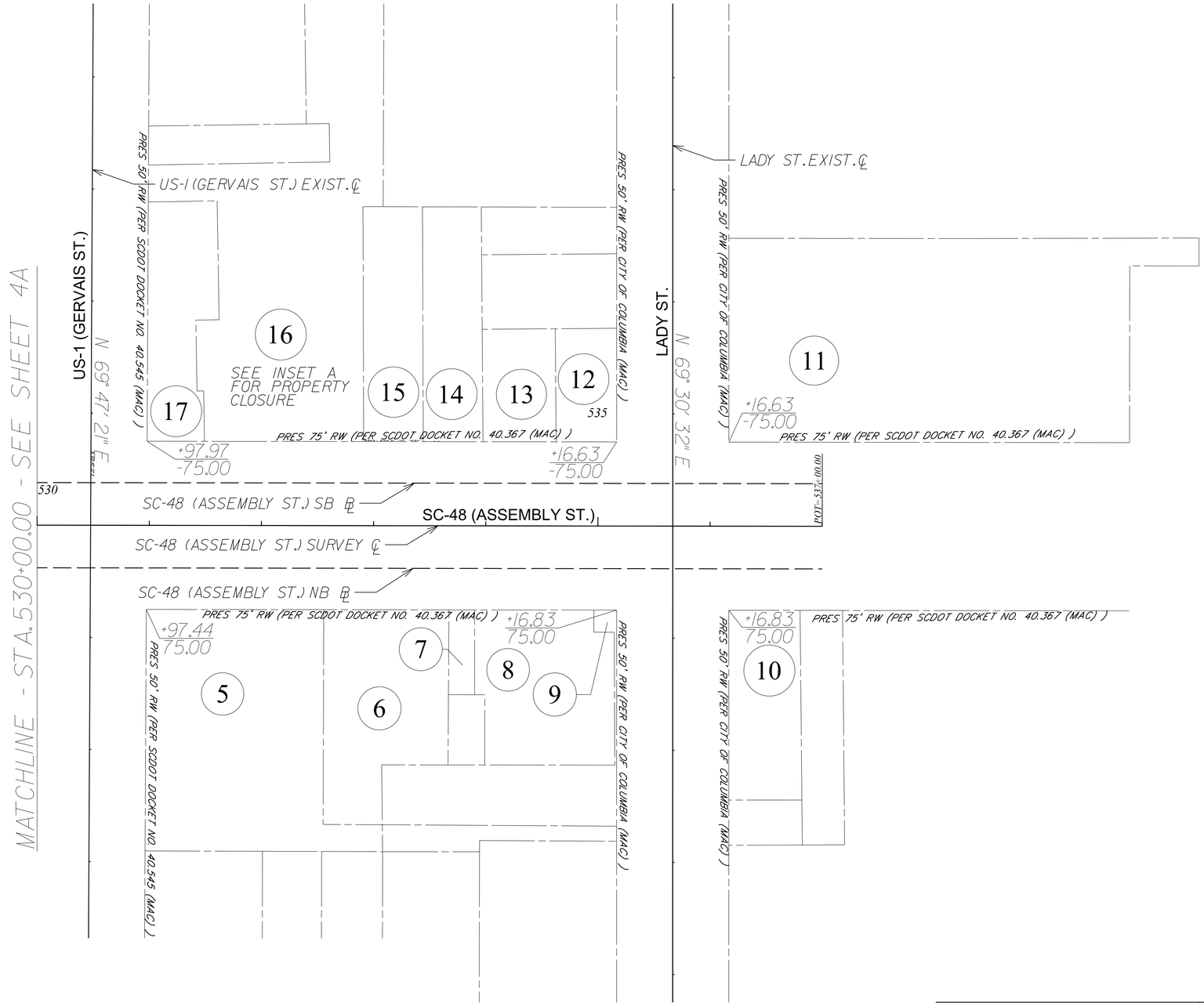
Mead & Hunt

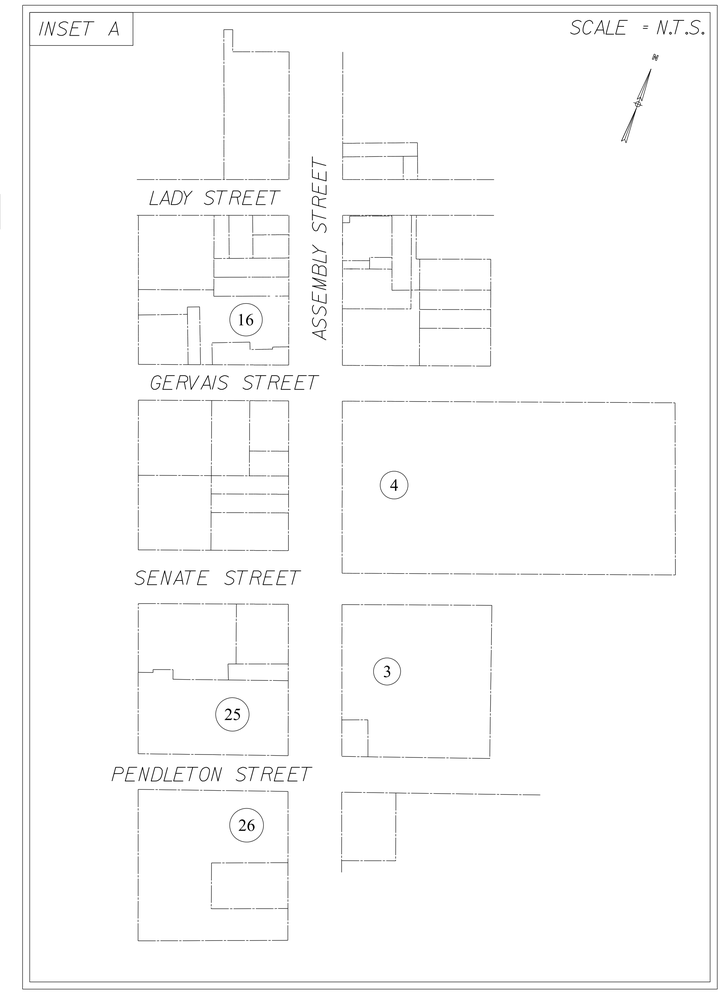
PROPERTY STRIP MAP

SCALE: 1" = 100' (11"x17") / 1" = 50' (22"x36")

SHEET 4A

FED. RD. DIV. NO.	STATE	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	21136L.01	SC-48	4B





PRESENT RIGHT-OF-WAY NOTES, STATIONS AND OFFSETS ARE REFERENCED FROM THE SHOWN SURVEY CENTERLINE FOR SC-48 (ASSEMBLY STREET).

SC-48 (ASSEMBLY ST.) PRESENT R/W VERIFIED FROM FILE 40.367
US-1 (GERVAIS ST.) PRESENT R/W VERIFIED FROM FILE 40.545
LADY ST. IS LOCALLY MAINTAINED, PRESENT R/W VERIFIED BY CITY OF COLUMBIA

50 0 50 100 150

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
7			
6			
5			
4			
3			
2			
1			

DWG. ____ DATE ____
CKD. ____ DATE ____

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ASSEMBLY STREET PHASE II
CITY OF COLUMBIA
COLUMBIA, SOUTH CAROLINA

Mead & Hunt

PROPERTY STRIP MAP

SCALE: 1" = 100' (11"x17") / 1" = 50' (22"x36")

SHEET 4B

FED. RD. DIV. NO.	STATE	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	2113611.01	SC-48	5A

<* 1 DESCRIBE CHAIN AS_CL

Chain AS_CL contains:
116 117

Beginning chain AS_CL description
==========

Point 116 N 787,130.7176 E 1,989,868.3505 Sta 515+00.00

Course from 116 to 117 N 20° 24' 49.31" W Dist 2,200.0000

Point 117 N 789,192.5546 E 1,989,100.9991 Sta 537+00.00

==========
Ending chain AS_CL description

<* 2 DESCRIBE CHAIN AS_BL_NB

Chain AS_BL_NB contains:
6260 6261

Beginning chain AS_BL_NB description
==========

Point 6260 N 787,143.9719 E 1,989,903.9641 Sta 515+00.00

Course from 6260 to 6261 N 20° 24' 49.31" W Dist 2,200.0000

Point 6261 N 789,205.8088 E 1,989,136.6126 Sta 537+00.00

==========
Ending chain AS_BL_NB description

<* 3 DESCRIBE CHAIN AS_BL_SB

Chain AS_BL_SB contains:
6250 6251

Beginning chain AS_BL_SB description
==========

Point 6250 N 787,117.4634 E 1,989,832.7370 Sta 515+00.00

Course from 6250 to 6251 N 20° 24' 49.31" W Dist 2,200.0000

Point 6251 N 789,179.3003 E 1,989,065.3855 Sta 537+00.00

==========
Ending chain AS_BL_SB description

<* 4 DESCRIBE CHAIN PEN_EX

Chain PEN_EX contains:
6276 6277

Beginning chain PEN_EX description
==========

Point 6276 N 787,388.6172 E 1,989,238.9052 Sta 0+00.00

Course from 6276 to 6277 N 70° 18' 09.58" E Dist 1,000.0000

Point 6277 N 787,725.6688 E 1,990,180.3914 Sta 10+00.00

==========
Ending chain PEN_EX description

<* 5 DESCRIBE CHAIN SENATE_EX

Chain SENATE_EX contains:
6280 6281

Beginning chain SENATE_EX description
==========

Point 6280 N 787,898.9769 E 1,989,048.9270 Sta 0+00.00

Course from 6280 to 6281 N 69° 47' 40.20" E Dist 500.0000

Point 6281 N 788,071.6711 E 1,989,518.1570 Sta 5+00.00

==========
Ending chain SENATE_EX description

<* 6 DESCRIBE CHAIN GERVAIS_EX

Chain GERVAIS_EX contains:
6290 6291

Beginning chain GERVAIS_EX description
==========

Point 6290 N 788,408.4867 E 1,988,859.3032 Sta 0+00.00

Course from 6290 to 6291 N 69° 47' 21.37" E Dist 1,000.0000

Point 6291 N 788,753.9606 E 1,989,797.7315 Sta 10+00.00

==========
Ending chain GERVAIS_EX description

<* 7 DESCRIBE CHAIN LADY_EX

Chain LADY_EX contains:
6300 6301

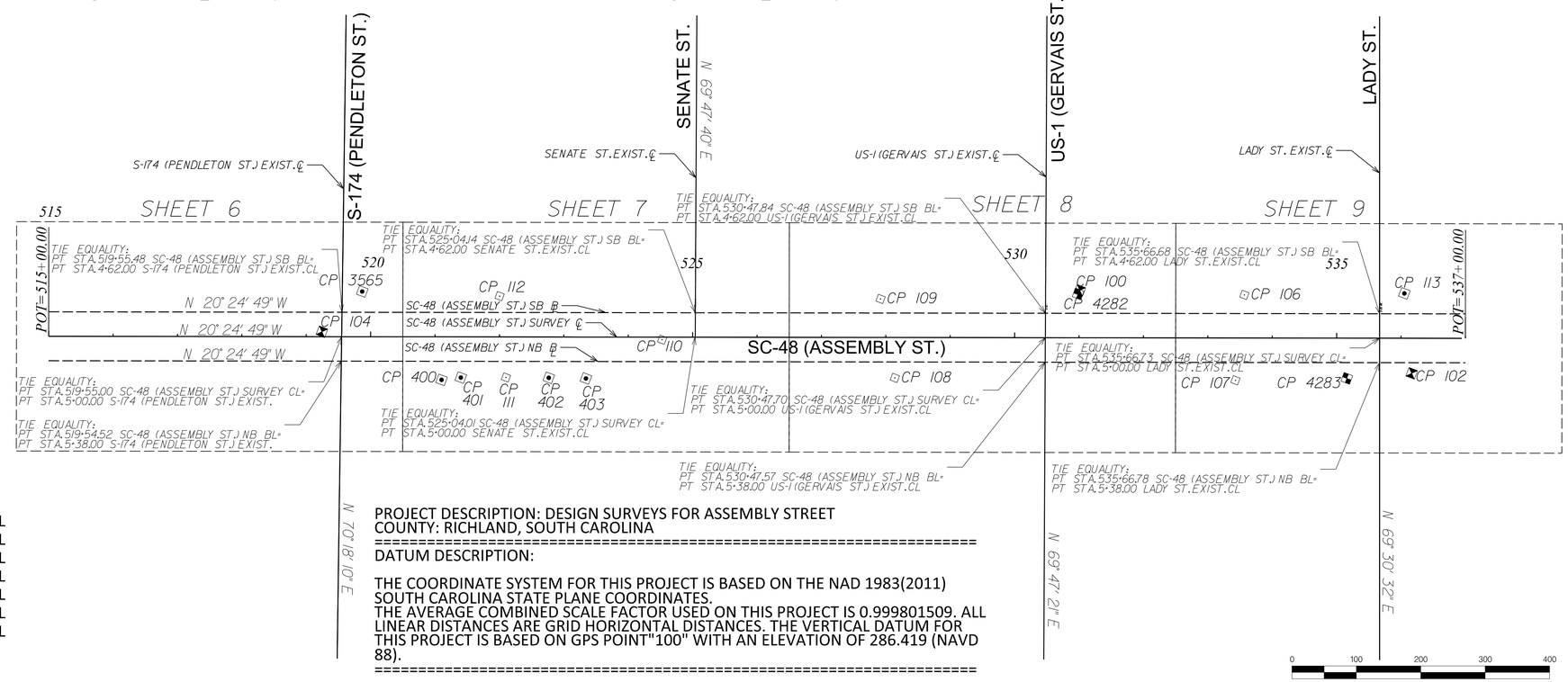
Beginning chain LADY_EX description
==========

Point 6300 N 788,892.6237 E 1,988,679.1196 Sta 0+00.00

Course from 6300 to 6301 N 69° 30' 31.65" E Dist 1,000.0000

Point 6301 N 789,242.6874 E 1,989,615.8455 Sta 10+00.00

==========
Ending chain LADY_EX description



CONTROL POINT INFORMATION

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	788605.6	1989241	286.4186	PSC-1/2 RB
102	789133.5	1989181	299.5035	PSC-1/2 RB
104	787525.8	1989713	284.4059	PSC-1/2 RB
106	788847.4	1989158	293.8175	MSC-MAG NAIL
107	788880.9	1989287	293.3100	MSC-MAG NAIL
108	788384.1	1989469	291.2337	MSC-MAG NAIL
109	788320.4	1989362	287.7158	MSC-MAG NAIL
110	788024.9	1989540	294.5821	MSC-MAG NAIL
111	787818.3	1989680	291.7629	MSC-MAG NAIL
112	787764.8	1989565	287.8086	MSC-MAG NAIL
113	789079.3	1989069	297.6389	CP-NAIL
400	787725.9	1989718	288.8531	CP-X SCRIBE
401	787752.7	1989704	289.7245	CP-X SCRIBE
402	787880.7	1989657	293.5970	CP-X SCRIBE
403	787935.1	1989638	294.7344	CP-X SCRIBE
3565	787658.9	1989668	286.3200	BL1

PROJECT DESCRIPTION: DESIGN SURVEYS FOR ASSEMBLY STREET
COUNTY: RICHLAND, SOUTH CAROLINA
==========
DATUM DESCRIPTION:

THE COORDINATE SYSTEM FOR THIS PROJECT IS BASED ON THE NAD 1983(2011) SOUTH CAROLINA STATE PLANE COORDINATES.
THE AVERAGE COMBINED SCALE FACTOR USED ON THIS PROJECT IS 0.999801509. ALL LINEAR DISTANCES ARE GRID HORIZONTAL DISTANCES. THE VERTICAL DATUM FOR THIS PROJECT IS BASED ON GPS POINT"100" WITH AN ELEVATION OF 286.419 (NAVD 88).
==========

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
7			
6			
5			
4			
3			
2			
1			

DWG. ____ DATE ____
CKD. ____ DATE ____

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ASSEMBLY STREET PHASE II
CITY OF COLUMBIA
COLUMBIA, SOUTH CAROLINA

Mead & Hunt

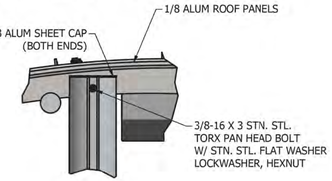
GEOMETRIC DATA
& REFERENCE SHEET

SCALE: 1" = 100' (22"x36") SHEET 5A

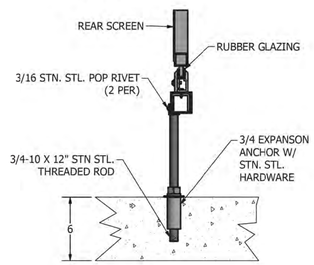
FED. RD. DIV. NO.	STATE	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	2I36L.01	SC-48	5B

GENERAL NOTES:

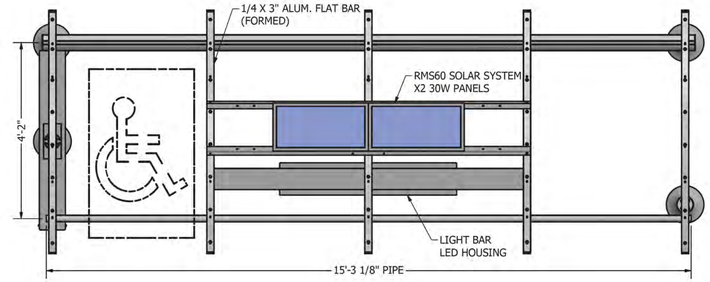
1. ALL STRUCTURAL STEEL, UNLESS OTHERWISE NOTED, SHALL BE ASTM A-36, MINIMUM YIELD STRENGTH 36,000 PSI.
2. ALL STRUCTURAL ALUMINUM MEMBERS, UNLESS OTHERWISE NOTED, SHALL BE OF ALLOY 6063-T5 OR GREATER.
3. ALL HOLES TO BE DRILLED OR PUNCHED.
4. STEEL WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY STANDARD D1. 1-10. ELECTRODES SHALL CONFORM TO AWS 5.1, CLASS E70S-5.
5. ALUMINUM WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY STANDARD D1. 2-08. ELECTRODES SHALL CONFORM TO AWS/SFA 5.10 CLASS ER4043.
6. ALL WELDING TO BE DONE AT TOLAR MANUFACTURING COMPANY, INC. FACILITY.
7. ALL CORPORATE PROCEDURES, INCLUDING FABRICATION, MUST BE IN COMPLIANCE WITH TOLAR MANUFACTURING CO. INC'S QUALITY CONTROL MANUAL

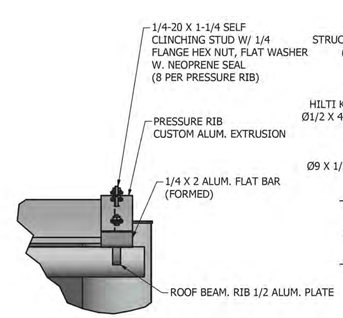


DETAIL H
SCALE 1/6

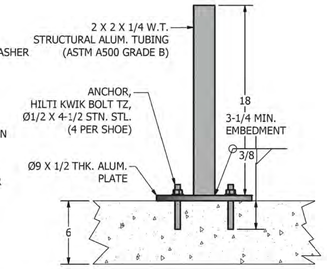


SECTION D-D
GLASS SUPPORT
SCALE 1/6

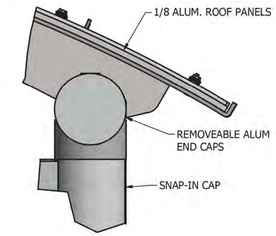




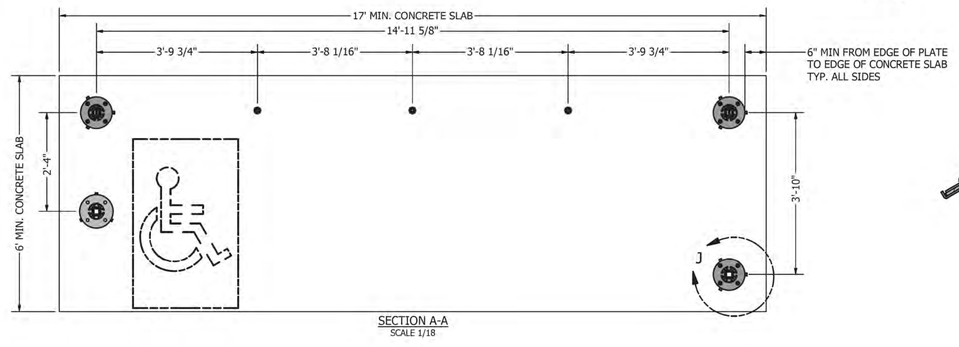
DETAIL B
SCALE 1/4



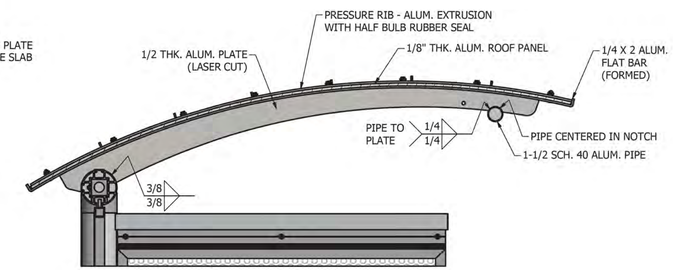
DETAIL F
SCALE 1/6



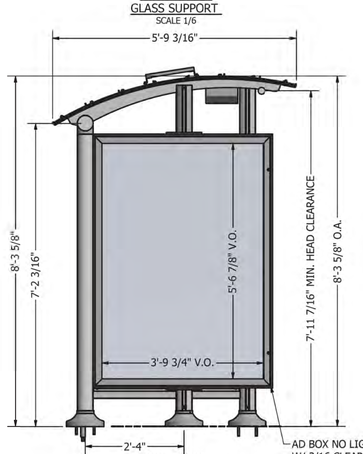
DETAIL C
SCALE 1/4



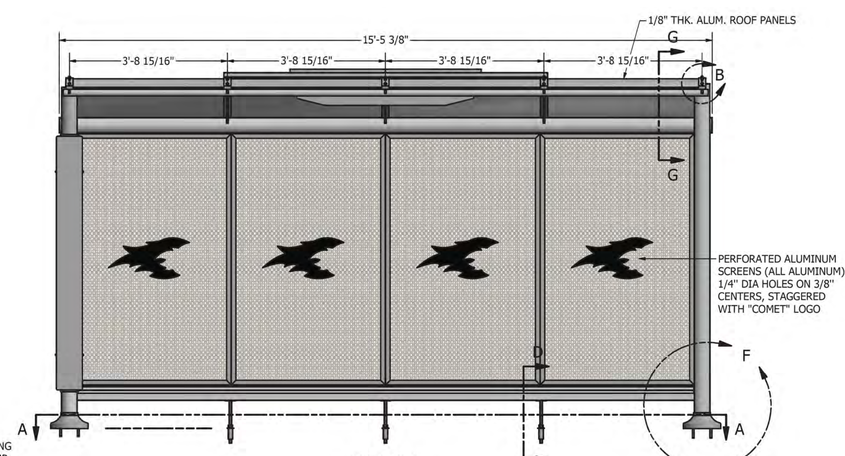
SECTION A-A
SCALE 1/18



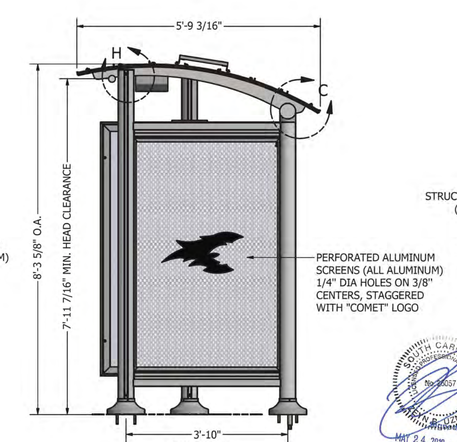
SECTION G-G
SCALE 1/8



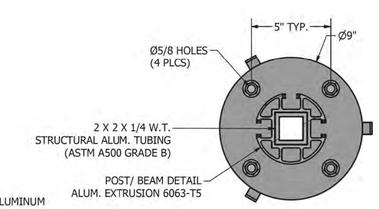
SIDE VIEW
SCALE 1/18



FRONT VIEW
SCALE 1/18



SIDE VIEW
SCALE 1/18



DETAIL J
SCALE 1/4

SOUTH CAROLINA
PROFESSIONAL ENGINEER
No. 30057
Mark A. Gibson
Seal Exp.
MAY 2 4 2019 - JUN 3 0 2020

TOLAR	Tolar Manufacturing Company, Inc 258 Mariah Circle, Corona CA. 92879
DESCRIPTION	16' AD CUSTOM DOME SHELTER
CUSTOMER/VENDOR	COLUMBIA, SC — SHEET NO. 1 of 1
SIZE D — MATL. ALL ALUMINUM	DWG NO. 33271-01 — REV. NO. -
STOCK #: — DATE 5/14/2019	DRAWN BY: RFarr

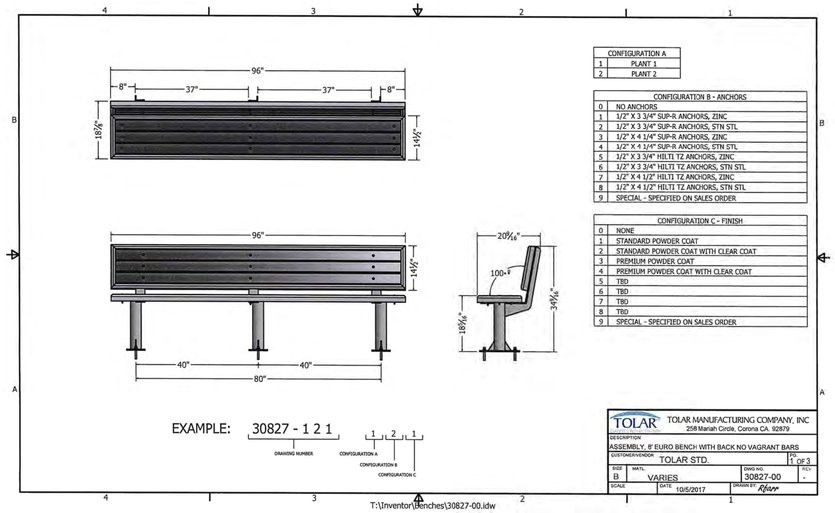
ASSEMBLY STREET PHASE II
CITY OF COLUMBIA
COLUMBIA, SOUTH CAROLINA

Mead & Hunt

SUPPLEMENTAL SPECIFICATIONS

SCALE: 1" = NTS — SHEET 5B

FED. RD. DIV. NO.	STATE	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	2H36I.01	SC-48	5C



CONFIGURATION A	
1	PLANT 1
2	PLANT 2

CONFIGURATION B - ANCHORS	
0	NO ANCHORS
1	1/2" X 3 3/4" SUP-R ANCHORS, ZINC
2	1/2" X 3 3/4" SUP-R ANCHORS, STN STL
3	1/2" X 4 1/4" SUP-R ANCHORS, ZINC
4	1/2" X 4 1/4" SUP-R ANCHORS, STN STL
5	1/2" X 3 3/4" HILTI TZ ANCHORS, ZINC
6	1/2" X 3 3/4" HILTI TZ ANCHORS, STN STL
7	1/2" X 4 1/2" HILTI TZ ANCHORS, ZINC
8	1/2" X 4 1/2" HILTI TZ ANCHORS, STN STL
9	SPECIAL - SPECIFIED ON SALES ORDER

CONFIGURATION C - FINISH	
0	NONE
1	STANDARD POWDER COAT
2	STANDARD POWDER COAT WITH CLEAR COAT
3	PREMIUM POWDER COAT
4	PREMIUM POWDER COAT WITH CLEAR COAT
5	TBD
6	TBD
7	TBD
8	TBD
9	SPECIAL - SPECIFIED ON SALES ORDER

TOLAR MANUFACTURING COMPANY, INC
258 Mariah Circle, Corona CA. 92879
DESCRIPTION: ASSEMBLY, 8' EURO BENCH WITH BACK NO VAGRANT BARS
CUSTOMER/VENDOR: TOLAR STD. | SHEET NO. 1 OF 3
SIZE: B | MATL: VARIES | DWG NO: 30827-00 | REV: -
SCALE: | DATE: 10/5/2017 | DRAWN BY: Rivera

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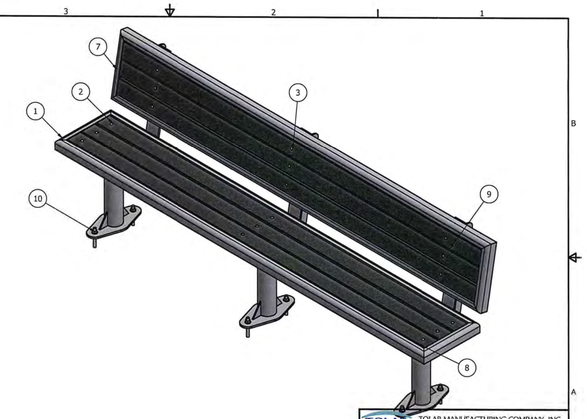

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	30826-00	WELDMENT, 8' EURO BENCH W/ BACK NO VAGRANT BARS
2	6	8124250	BOLT, CARRIAGE 1/4-20 x 2 1/2" STN STL
3	12	8124300	BOLT, CARRIAGE 1/4-20 x 3" STN STL
4	18	8684053	1/4" FLAT WASHER STN. STL.
5	18	8703049	1/4" LOCK WASHER SS, SPRING LOCK
6	18	8155036	HEX NUT, 1/4-20 STN. STL.
7	1	30828-00	WELDMENT, 8' EURO BENCH BACK BAR
8	3	30829-00	RECYCLED MATERIAL BENCH SLAT SEAT
9	3	30831-00	RECYCLED MATERIAL BENCH SLAT BACK REST
10	6	8037450	ANCHOR KWIK BOLT TZ 1/2 X 4 1/2 STN. STL.

TOLAR MANUFACTURING COMPANY, INC
258 Mariah Circle, Corona CA. 92879
DESCRIPTION: ASSEMBLY, 8' EURO BENCH WITH BACK NO VAGRANT BARS
CUSTOMER/VENDOR: ALPINE COUNTY COMMUNITY | SHEET NO. 2 OF 3
SIZE: B | MATL: VARIES | DWG NO: 30827-00 | REV: -
SCALE: | DATE: 10/5/2017 | DRAWN BY: Rivera

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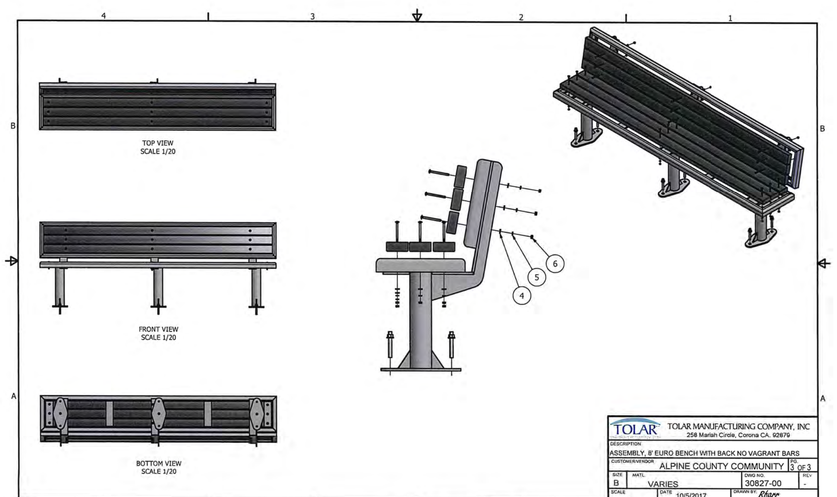


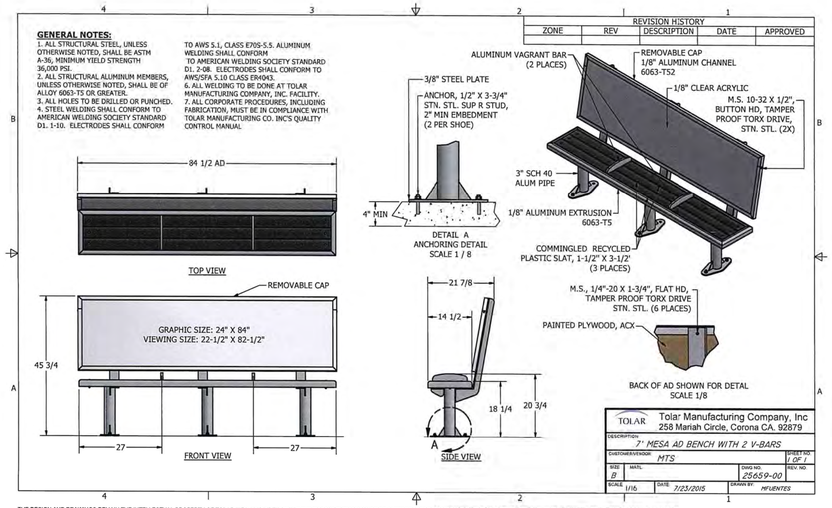
TOLAR MANUFACTURING COMPANY, INC
258 Mariah Circle, Corona CA. 92879
DESCRIPTION: ASSEMBLY, 8' EURO BENCH WITH BACK NO VAGRANT BARS
CUSTOMER/VENDOR: ALPINE COUNTY COMMUNITY | SHEET NO. 3 OF 3
SIZE: B | MATL: VARIES | DWG NO: 30827-00 | REV: -
SCALE: | DATE: 10/5/2017 | DRAWN BY: Rivera

T:\Inventor\Benches\30827-00.idw

GENERAL NOTES:

1. ALL STRUCTURAL STEEL, UNLESS OTHERWISE NOTED, SHALL BE ASTM A-36, MINIMUM YIELD STRENGTH 36,000 PSI.
2. ALL STRUCTURAL ALUMINUM MEMBERS, UNLESS OTHERWISE NOTED, SHALL BE OF ALLOY 6063-T5 OR GREATER.
3. ALL HOLES TO BE DRILLED OR PUNCHED.
4. STEEL WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY STANDARD D1. 1-10. ELECTRODES SHALL CONFORM TO AWS 5.1, CLASS E70S-5.5. ALUMINUM WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY STANDARD D1. 2-08. ELECTRODES SHALL CONFORM TO AWS/SFA 5.10 CLASS ER4043.
6. ALL WELDING TO BE DONE AT TOLAR MANUFACTURING COMPANY, INC. FACILITY.
7. ALL CORPORATE PROCEDURES, INCLUDING FABRICATION, MUST BE IN COMPLIANCE WITH TOLAR MANUFACTURING CO. INC'S QUALITY CONTROL MANUAL

REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED



Tolar Manufacturing Company, Inc
258 Mariah Circle, Corona CA. 92879
DESCRIPTION: 7' MESA AD BENCH WITH 2 V-BARS
CUSTOMER/VENDOR: MTS | SHEET NO. 1 OF 1
SIZE: B | MATL: | DWG NO: 25659-00 | REV. NO.
SCALE: 1/16 | DATE: 7/23/2015 | DRAWN BY: MFUENTES

THE DESIGN AND DRAWINGS REMAIN THE INTELLECTUAL PROPERTY OF TOLAR MFG. AND ARE PROTECTED BY LAW. THEY MAY NOT BE ALTERED, REPRODUCED OR USED FOR FABRICATION WITHOUT EXPRESSED WRITTEN CONSENT FROM TOLAR MFG.
ALL DOCUMENTS TO BE RETURNED TO TOLAR MFG.. AT COMPLETION OF WORK. CONTRACTOR TO SITE VERIFY ALL DETAILS AND DIMENSIONS AND REPORT ANY AND ALL DISCREPANCIES TO TOLAR MFG.. BEFORE COMMENCING WITH THAT RELATED PORTION OF THE WORK.

ASSEMBLY STREET PHASE II
CITY OF COLUMBIA
COLUMBIA, SOUTH CAROLINA

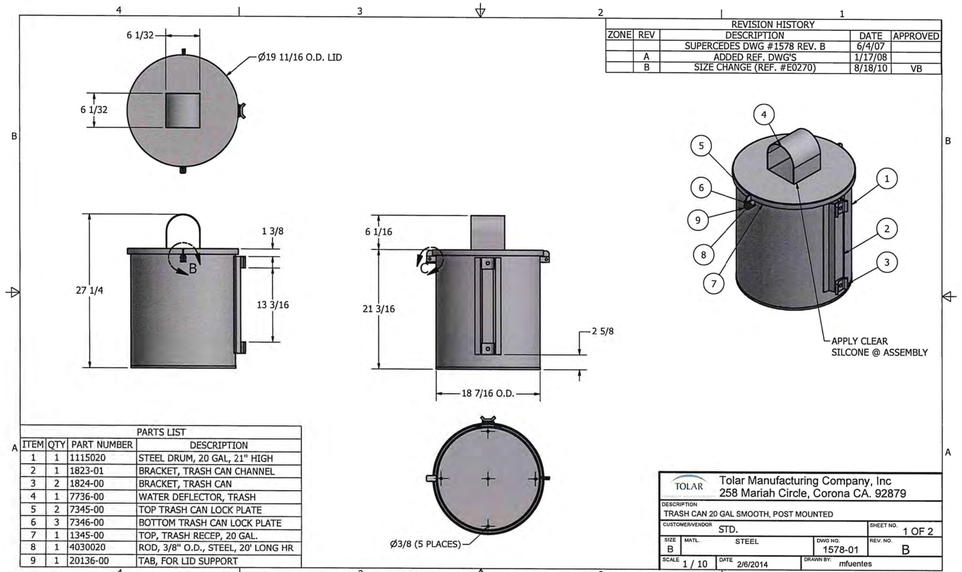
Mead & Hunt

SUPPLEMENTAL SPECIFICATIONS

SCALE: 1" = NTS | SHEET 5C

FED. RD. DIV. NO.	STATE	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	2H36L.01	SC-48	5D

REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
		SUPERCEDES DWG #1578 REV. B	6/4/07	
	A	ADDED REF. DWG'S	1/17/08	
	B	SIZE CHANGE (REF. #E0270)	8/18/10	VB



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	1115020	STEEL DRUM, 20 GAL, 21" HIGH
2	1	1823-01	BRACKET, TRASH CAN CHANNEL
3	2	1824-00	BRACKET, TRASH CAN
4	1	7736-00	WATER DEFLECTOR, TRASH
5	2	7345-00	TOP TRASH CAN LOCK PLATE
6	3	7346-00	BOTTOM TRASH CAN LOCK PLATE
7	1	1345-00	TOP, TRASH RECEP, 20 GAL.
8	1	4030020	ROD, 3/8" O.D., STEEL, 20' LONG HR
9	1	20136-00	TAB, FOR LID SUPPORT

TOLAR Tolar Manufacturing Company, Inc
258 Mariah Circle, Corona CA. 92879

DESCRIPTION: TRASH CAN 20 GAL SMOOTH, POST MOUNTED			
CUSTOMER/VENDOR: STD.			SHEET NO. 1 OF 2
SIZE B	MATL. STEEL	DWG NO. 1578-01	REV. NO. B
SCALE 1 / 10	DATE 2/6/2014	DRAWN BY: mfuentes	

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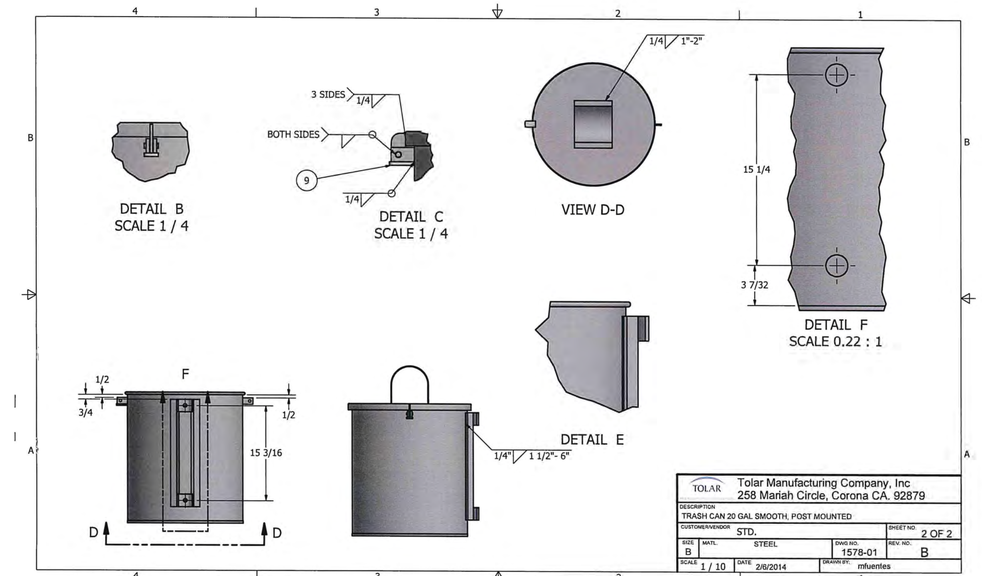

TOLAR Tolar Manufacturing Company, Inc
258 Mariah Circle, Corona CA. 92879

DESCRIPTION: TRASH CAN 20 GAL SMOOTH, POST MOUNTED			
CUSTOMER/VENDOR: STD.			SHEET NO. 2 OF 2
SIZE B	MATL. STEEL	DWG NO. 1578-01	REV. NO. B
SCALE 1 / 10	DATE 2/6/2014	DRAWN BY: mfuentes	

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ASSEMBLY STREET PHASE II
CITY OF COLUMBIA
COLUMBIA, SOUTH CAROLINA

Mead & Hunt

SUPPLEMENTAL SPECIFICATIONS

SCALE: 1" = NTS | SHEET 5D

FED. RD. DIV. NO.	STATE	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	2I36I.01	SC-48	6

GENERAL NOTES APPLY TO ALL SHEETS

ALL STATIONS & OFFSETS ARE MEASURED FROM THE SURVEY CENTERLINE UNLESS OTHERWISE NOTED.

EXISTING MEDIANS IN ROADWAY TO BE REMOVED UNLESS OTHERWISE NOTED. NEW MEDIAN CONSTRUCTED WITH 9"X15" VERTICAL CURB.

SEE LANDSCAPING SHEETS FOR MEDIAN AND SIDEWALK PLANTER DETAILS. ALL EXISTING TREES WITHIN THE RIGHT-OF-WAY TO BE REMOVED UNLESS OTHERWISE NOTED IN THE LANDCAPING PLANS. LANDSCAPE DESIGN IS PRELIMINARY ONLY. PLANTER DETAIL FINALIZATION TO BE COORDINATED WITH THE LANDSCAP ARCHITECT PRIOR TO FINAL CONSTRUCTION PLANS.

SEE SHEET 5A FOR ALL CENTERLINE AND BASELINE TIE EQUALITIES

RETAIN ALL EXISTING DRAINAGE STRUCTURES AND PIPES UNLESS OTHERWISE NOTED. DRAINAGE DESIGN IS PRELIMINARY ONLY. PIPE SIZING TO BE FINALIZED PRIOR TO FINAL CONSTRUCTION PLANS.

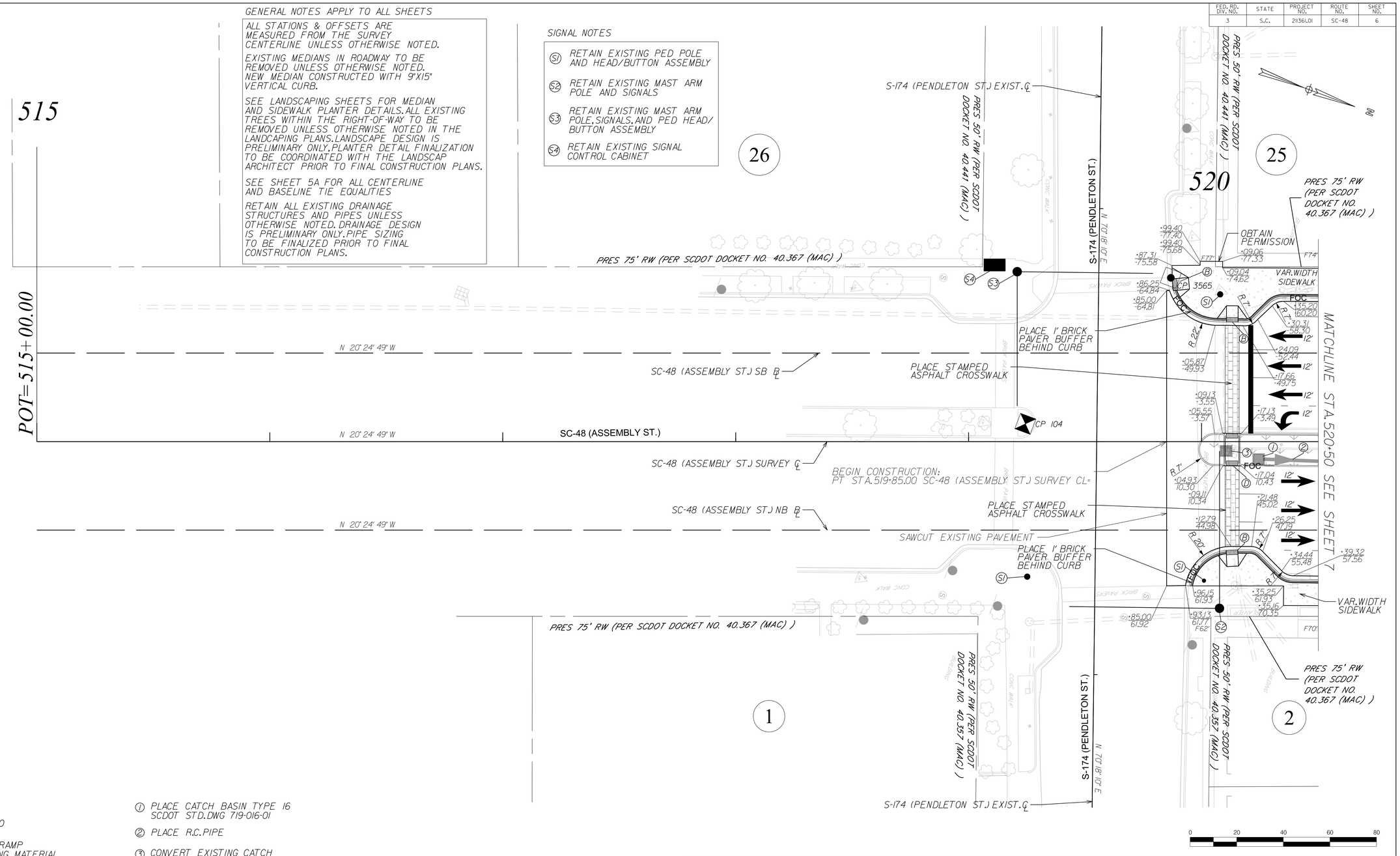
SIGNAL NOTES

(S1) RETAIN EXISTING PED POLE AND HEAD/BUTTON ASSEMBLY

(S2) RETAIN EXISTING MAST ARM POLE AND SIGNALS

(S3) RETAIN EXISTING MAST ARM POLE, SIGNALS, AND PED HEAD/ BUTTON ASSEMBLY

(S4) RETAIN EXISTING SIGNAL CONTROL CABINET



(A) CONSTRUCT DRIVEWAY
SCDOT STD.DWG.720-405-00
DETAIL 1

(B) CONSTRUCT PEDESTRIAN RAMP WITH DETECTABLE WARNING MATERIAL
SCDOT STD.DWG.720-951-36
DETAIL 1

(D) CONSTRUCT PEDESTRIAN REFUGE WITH DETECTABLE WARNING MATERIAL
SCDOT STD.DWG.720-955-40
DETAIL 3

(1) PLACE CATCH BASIN TYPE 16
SCDOT STD.DWG 719-016-01

(2) PLACE R.C.PIPE

(3) CONVERT EXISTING CATCH BASIN TO JUNCTION BOX

LEGEND
- BRICK PAVERS
- CONC. SIDEWALK
- LANDSCAPING

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
7			
6			
5			
4			
3			
2			
1			

DWG. _____ DATE _____
CKD. _____ DATE _____

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ASSEMBLY STREET PHASE II
CITY OF COLUMBIA
COLUMBIA, SOUTH CAROLINA

Mead & Hunt

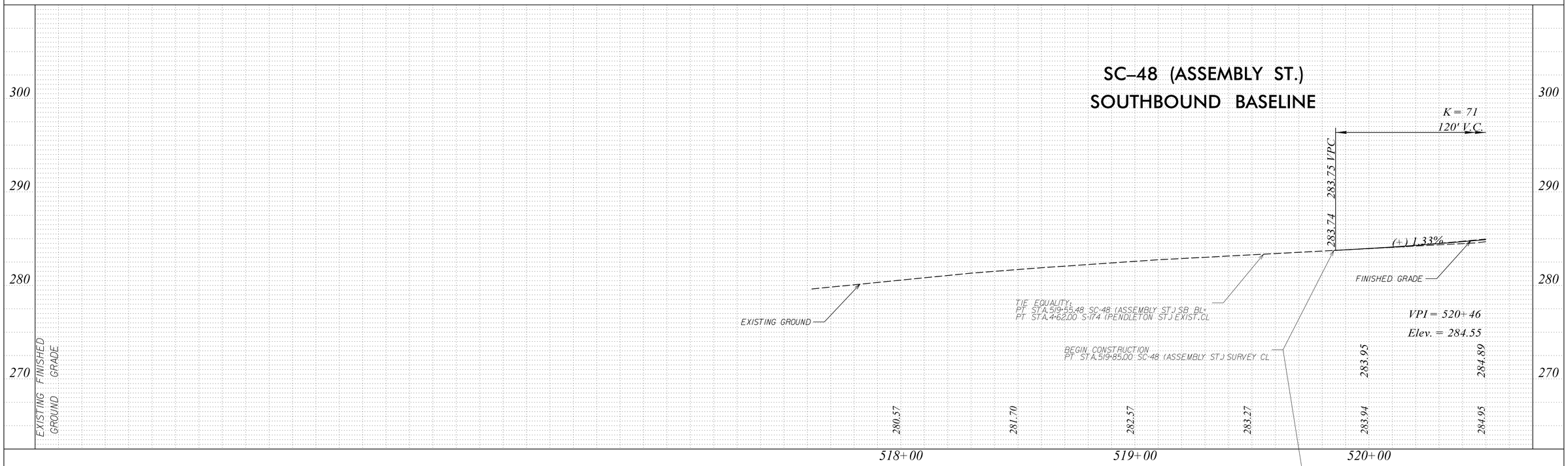
PLAN SHEET

SCALE: 1" = 20' (22"x36")

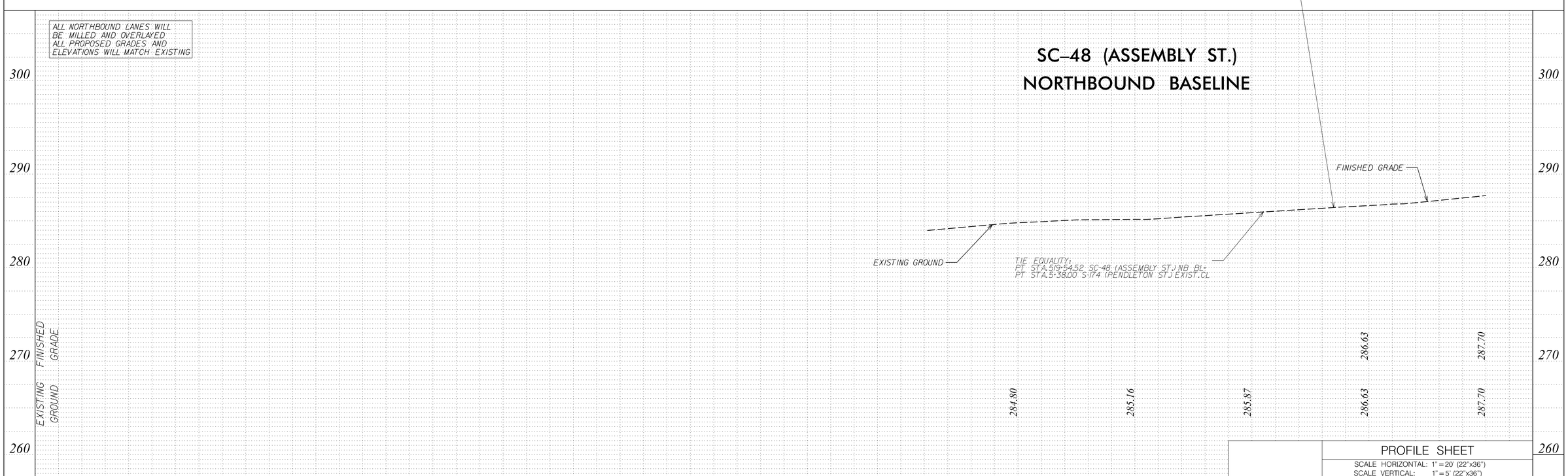
SHEET 6

FED. RD. DIV. NO.	STATE	PROJECT ID:	ROUTE NO.	SHEET NO.
3	S.C.	21136L.01	SC-48	6A

PROFILE		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	GRADES CHECKED		
	B.M.'S NOTED		
No.	STRUCTURE NOTATIONS CHECKED		



PROFILE		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	GRADES CHECKED		
	B.M.'S NOTED		
No.	STRUCTURE NOTATIONS CHECKED		



PROFILE SHEET

SCALE HORIZONTAL: 1" = 20' (22"x36")
SCALE VERTICAL: 1" = 5' (22"x36")

SHEET 6A

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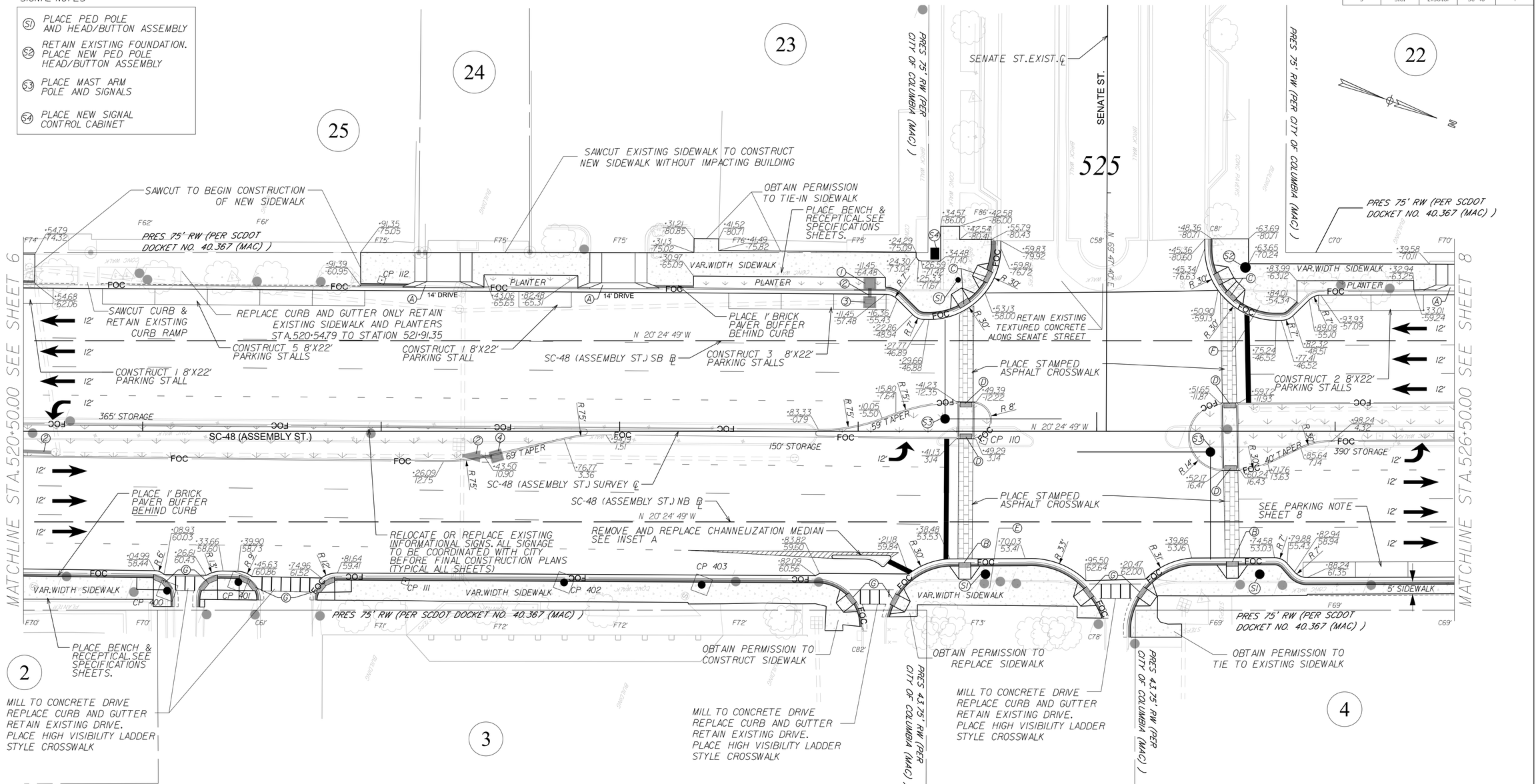
FED. RD. DIV. NO.	STATE	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	2I136I.0I	SC-48	7

SIGNAL NOTES

- (S1) PLACE PED POLE AND HEAD/BUTTON ASSEMBLY
- (S2) RETAIN EXISTING FOUNDATION. PLACE NEW PED POLE HEAD/BUTTON ASSEMBLY
- (S3) PLACE MAST ARM POLE AND SIGNALS
- (S4) PLACE NEW SIGNAL CONTROL CABINET



(A) CONSTRUCT DRIVEWAY SCDOT STD.DWG.720-405-00 DETAIL 1

(B) CONSTRUCT PEDESTRIAN RAMP WITH DETECTABLE WARNING MATERIAL SCDOT STD.DWG.720-951-36 DETAIL 1

(C) CONSTRUCT PEDESTRIAN RAMP WITH DETECTABLE WARNING MATERIAL SEE STANDARD DRAWING 720-952-36 DETAIL 1

(D) CONSTRUCT PEDESTRIAN REFUGE WITH DETECTABLE WARNING MATERIAL SCDOT STD.DWG.720-955-40 DETAIL 3

(E) CONSTRUCT BUS STOP SHELTER & RECEPTICAL SEE SPECIFICATIONS SHEETS. FINAL BUS STOP LOCATIONS TO BE COORDINATED WITH COMET PRIOR TO FINAL CONSTRUCTION PLANS.

(F) INSTALL BUS STOP BENCH & RECEPTICAL SEE SPECIFICATIONS SHEETS. FINAL BUS STOP LOCATIONS TO BE COORDINATED WITH COMET PRIOR TO FINAL CONSTRUCTION PLANS

(G) CONSTRUCT PEDESTRIAN RAMP WITH DETECTABLE WARNING MATERIAL SEE STANDARD DRAWING 720-952-11 DETAIL 2

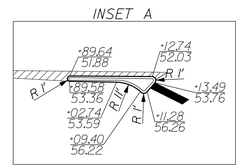
(1) PLACE CATCH BASIN TYPE 16 SCDOT STD.DWG 719-016-01

(2) PLACE R.C.PIPE

(3) PLACE JUNCTION BOX

(4) PLACE CATCH BASIN TYPE 1 SCDOT STD.DWG 719-001-01

INSET A



LEGEND

- BRICK PAVERS
- SIDEWALK
- LANDSCAPING

0 20 40 60 80

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
7			
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DWG. ____ DATE ____
CKD. ____ DATE ____

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ASSEMBLY STREET PHASE II
CITY OF COLUMBIA
COLUMBIA, SOUTH CAROLINA

Mead & Hunt

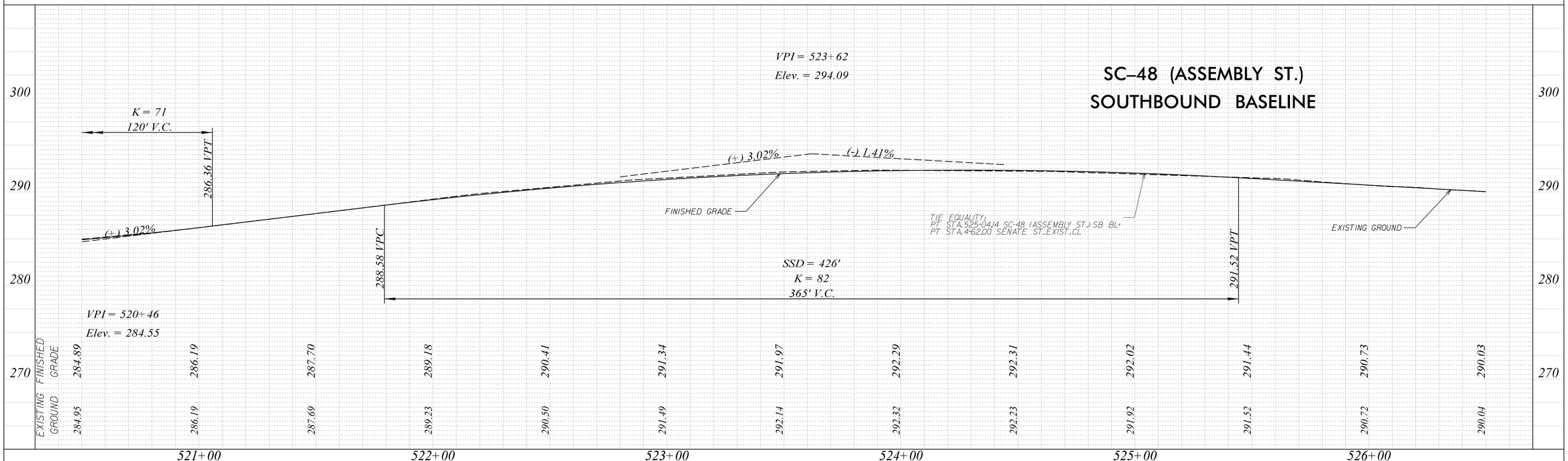
PLAN SHEET

SCALE: 1" = 20' (22"x36")

SHEET 7

FED. RD. DIV. NO.	STATE	PROJECT ID:	ROUTE NO.	SHEET NO.
3	S.C.	21136L.01	SC-48	7A

PROFILE		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	GRADES CHECKED		
	B.M.'S NOTED		
No.	STRUCTURE NOTATIONS CHECKED		



PROFILE		BY	DATE
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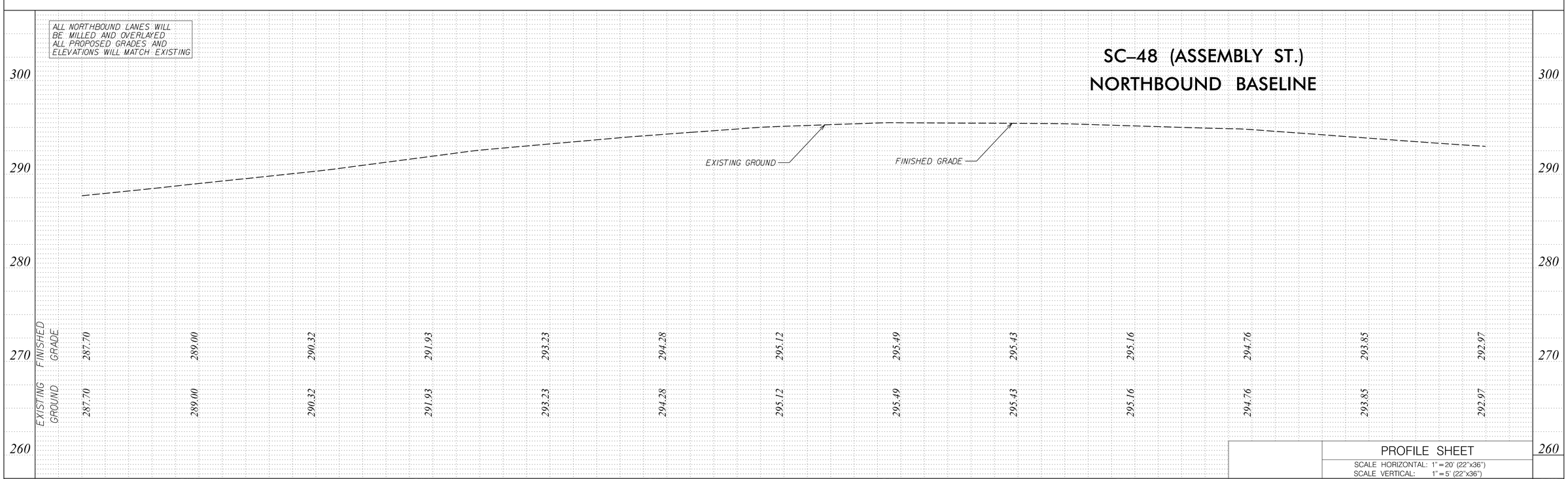
No.	STRUCTURE NOTATIONS CHECKED		



PROFILE SHEET

SCALE HORIZONTAL: 1" = 20' (22"x36")
SCALE VERTICAL: 1" = 5' (22"x36")

SHEET 7
7A

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FED. RD. DIV. NO.	STATE	PROJECT NO.	ROUTE NO.	SHEET NO.
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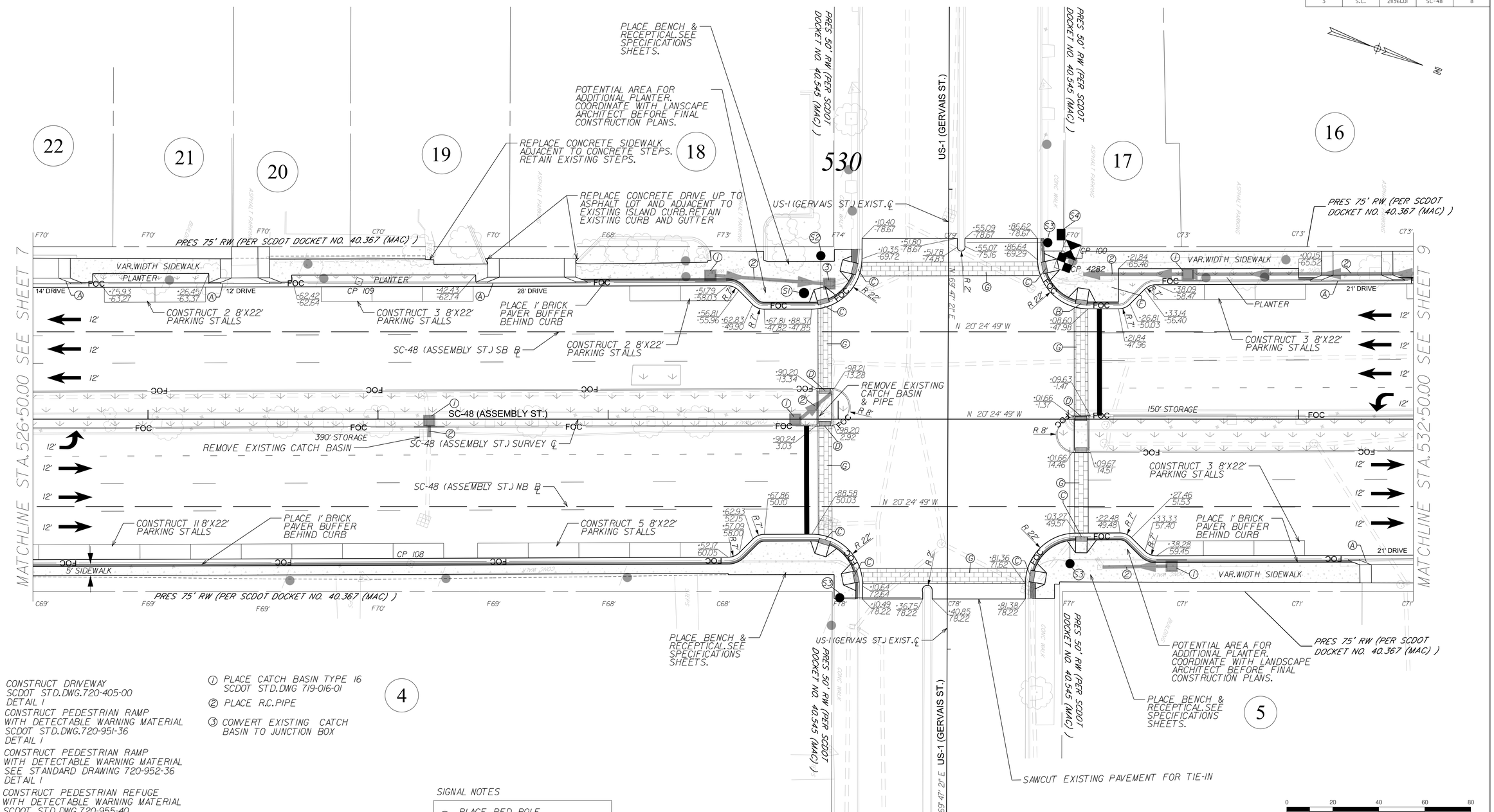

Ⓐ CONSTRUCT DRIVEWAY SCDOT STD.DWG.720-405-00 DETAIL 1

Ⓑ CONSTRUCT PEDESTRIAN RAMP WITH DETECTABLE WARNING MATERIAL SCDOT STD.DWG.720-951-36 DETAIL 1

Ⓒ CONSTRUCT PEDESTRIAN RAMP WITH DETECTABLE WARNING MATERIAL SEE STANDARD DRAWING 720-952-36 DETAIL 1

Ⓓ CONSTRUCT PEDESTRIAN REFUGE WITH DETECTABLE WARNING MATERIAL SCDOT STD.DWG.720-955-40 DETAIL 3

Ⓕ INSTALL BUS STOP BENCH & RECEPTICAL SEE SPECIFICATIONS SHEETS. FINAL BUS STOP LOCATIONS TO BE COORDINATED WITH COMET PRIOR TO FINAL CONSTRUCTION PLANS

Ⓖ PLACE STAMPED ASPHALT CROSSWALK

① PLACE CATCH BASIN TYPE 16 SCDOT STD.DWG 719-016-01

② PLACE R.C.PIPE

③ CONVERT EXISTING CATCH BASIN TO JUNCTION BOX

SIGNAL NOTES

(S1) PLACE PED POLE AND HEAD/BUTTON ASSEMBLY

(S2) RELOCATE EXISTING MAST ARM POLE AND SIGNALS.RETAIN PED HEAD/BUTTON FOR WEST LEG CROSSWALK

(S3) RETAIN EXISTING MAST ARM POLE,SIGNALS,AND PED HEAD/BUTTON ASSEMBLY

(S4) RETAIN EXISTING SIGNAL CONTROL CABINET

SURFACE LEGEND

BRICK PAVERS

SIDEWALK

LANDSCAPING

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
7			
6			
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DWG. _____ DATE _____ FILE ...\sheets\AS_RDY_PLAN08.dgn

CKD. _____ DATE _____ 5/8/2024 1:47:36 PM

ASSEMBLY STREET PHASE II
CITY OF COLUMBIA
COLUMBIA, SOUTH CAROLINA

Mead & Hunt

PLAN SHEET

SCALE: 1" = 20' (22"x36")

SHEET 8

FED. RD. DIV. NO.	STATE	PROJECT ID:	ROUTE NO.	SHEET NO.
3	S.C.	21I36L01	SC-48	8A

PROFILE	SURVEYED	BY	DATE
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NOTE BOOK	PLOTTED		
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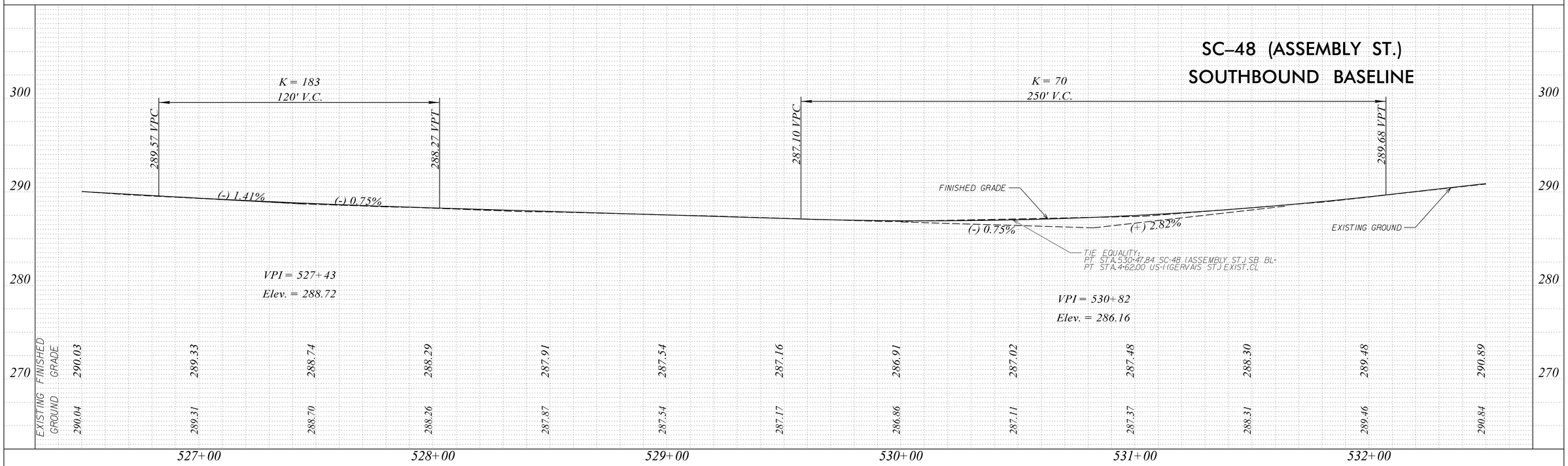
No.	STRUCTURE NOTATIONS CHECKED		



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NOTE BOOK	PLOTTED		
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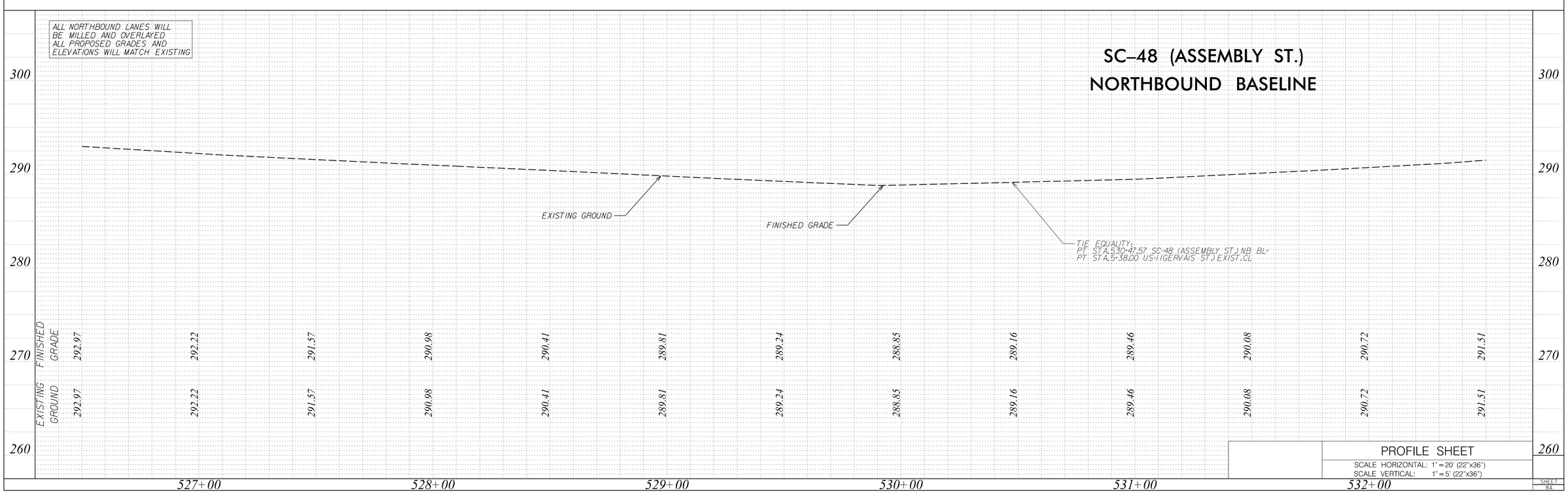
	B.M. IS NOTED		
No.	STRUCTURE NOTATIONS CHECKED		



PROFILE SHEET

SCALE HORIZONTAL: 1" = 20' (22"x36")
SCALE VERTICAL: 1" = 5' (22"x36")

SHEET 8A

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FED. RD. DIV. NO.	STATE	PROJECT NO.	ROUTE NO.	SHEET NO.
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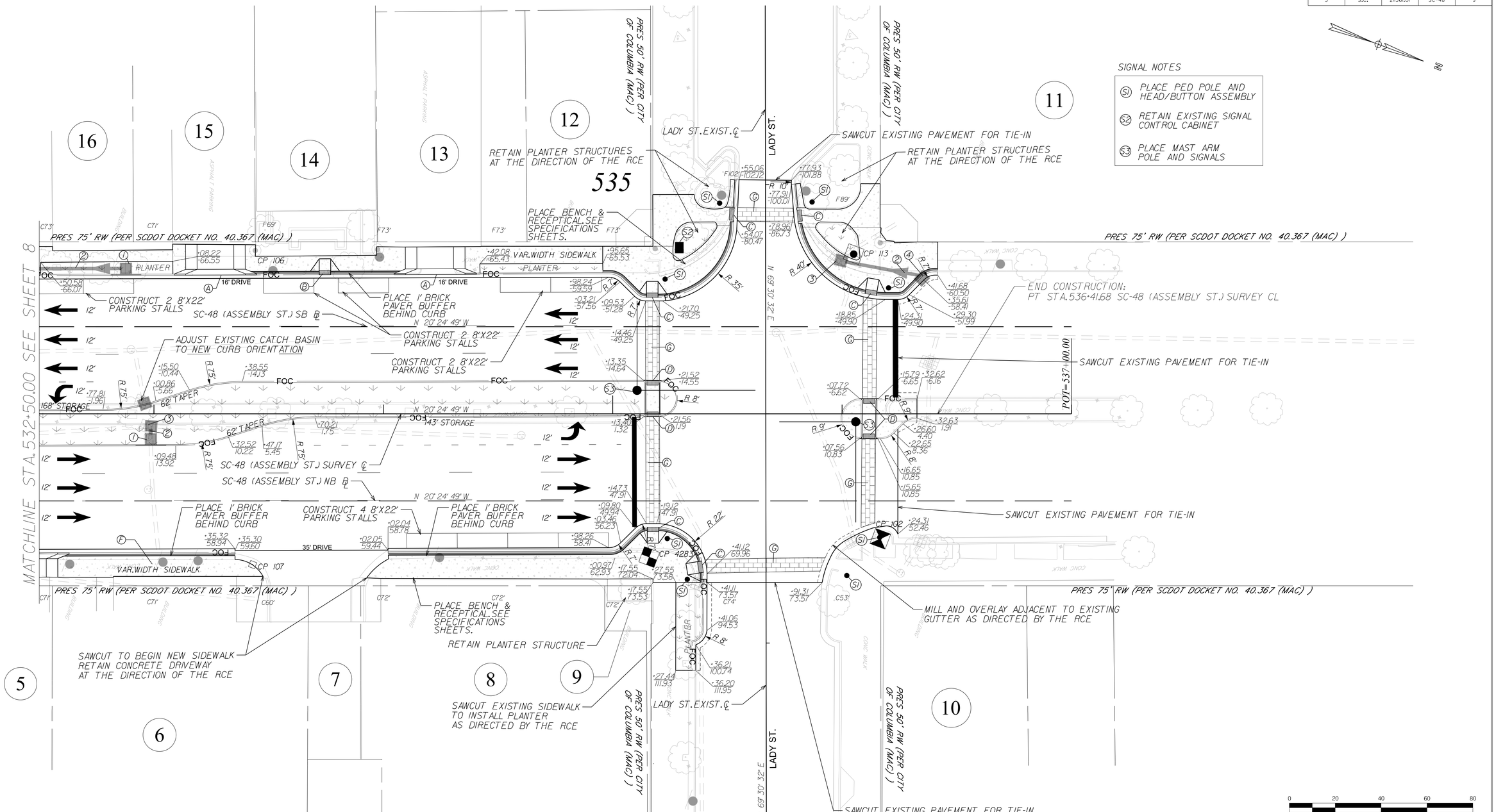

Ⓐ CONSTRUCT DRIVEWAY SCDOT STD.DWG.720-405-00 DETAIL 1

Ⓑ CONSTRUCT PEDESTRIAN RAMP WITH DETECTABLE WARNING MATERIAL SCDOT STD.DWG.720-951-36 DETAIL 1

Ⓒ CONSTRUCT PEDESTRIAN RAMP WITH DETECTABLE WARNING MATERIAL SEE STANDARD DRAWING 720-952-36 DETAIL 1

Ⓓ CONSTRUCT PEDESTRIAN REFUGE WITH DETECTABLE WARNING MATERIAL SCDOT STD.DWG.720-955-40 DETAIL 3

Ⓕ INSTALL BUS STOP BENCH & RECEPTICAL SEE SPECIFICATIONS SHEETS. FINAL BUS STOP LOCATIONS TO BE COORDINATED WITH COMET PRIOR TO FINAL CONSTRUCTION PLANS

Ⓖ PLACE STAMPED ASPHALT CROSSWALK

① PLACE CATCH BASIN TYPE 16 SCDOT STD.DWG 719-016-01

② PLACE R.C.PIPE

③ CONVERT EXISTING CATCH BASIN TO JUNCTION BOX

④ PLACE CATCH BASIN TYPE 1 SCDOT STD.DWG 719-001-01

LEGEND
- BRICK PAVERS
- SIDEWALK
- LANDSCAPING

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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DWG. _____ DATE _____
CKD. _____ DATE _____

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ASSEMBLY STREET PHASE II
CITY OF COLUMBIA
COLUMBIA, SOUTH CAROLINA

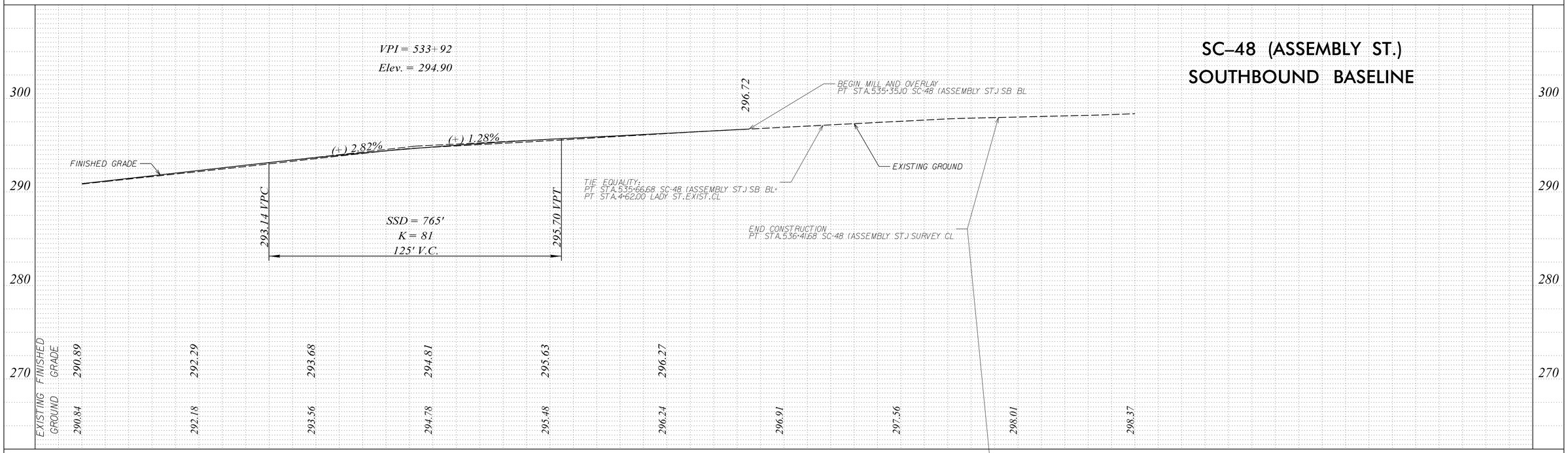
Mead & Hunt

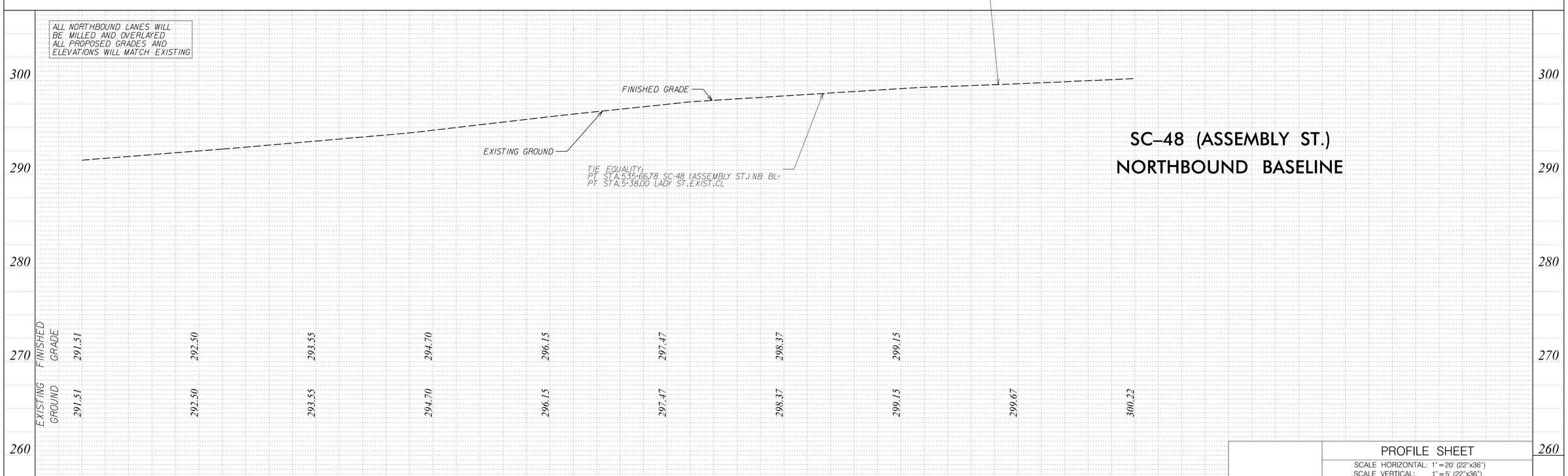
PLAN SHEET

SCALE: 1" = 20' (22"x36")

SHEET 9

FED. RD. DIV. NO.	STATE	PROJECT ID:	ROUTE NO.	SHEET NO.
3	S.C.	21136L.01	SC-48	9A





PROFILE SHEET

SCALE HORIZONTAL: 1" = 20' (22"x36")
SCALE VERTICAL: 1" = 5' (22"x36")

PROFILE	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	GRADES CHECKED		
No.	B.M.'S NOTED		
	STRUCTURE NOTATIONS CHECKED		

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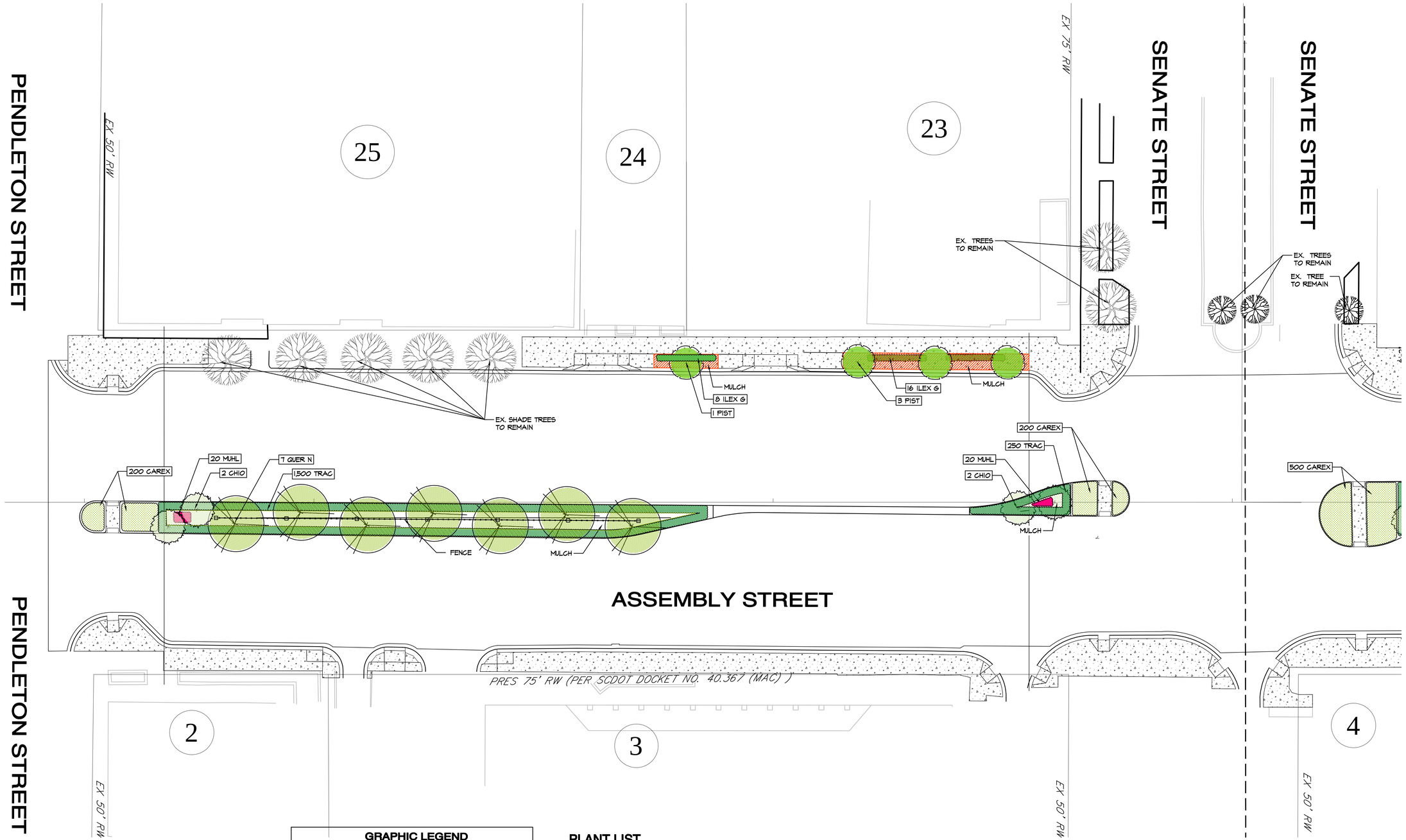
SHEET 9A



GRAPHIC LEGEND

- EXISTING SHADE TREES
- EXISTING SMALL TREES
- EXISTING SABAL PALMS
- PROPOSSED / ENLARGE SIDEWALK OPENINGS FOR TREES
- SHADE TREES
- MEDIUM TREES
- SHRUBS

PLANT LIST

ABBR.	BOTANICAL NAME	COMMON NAME	MINIMUM CALIPER	MINIMUM SPREAD	MINIMUM HEIGHT	MINIMUM BALL DIA.	MINIMUM NO. CANES	COMMENTS	QTY.
TREES									
CHIO	CHIONANTHUS VIRGINICUS	WHITE FRINGE TREE	2"	6'	10'	18"	1	MATCHING, SPECIMEN	14
QUER N	QUERCUS NUTTALLI VA. HIGHPOINT	NUTTALL OAK	3"	6'	12'	32"	1	MATCHING, SPECIMEN	29
PIST	PISTACIA CHINENSIS	CHINESE PISTACHE	2"	6'	10'	18"	1	MATCHING, SPECIMEN	19
SABA	SABAL PALMETTO	PALMETTO			10'		1	SPECIMEN	1
SHRUBS									
CARE	CAREX CHEROKEENSIS	CHEROKEE SEDGE		18"	18"	3 GAL.	3-5	PLANT 1.5' O.C.	1,650
ILEX G	ILEX GLABRA 'CHAMZIN'	NORDIC INKBERRY HOLLY		24"	24"	3 GAL.	3-5	PLANT 4' O.C.	108
MUHLY	MUHLENBERGIA CAPILLARIS	MUHLY GRASS		18"	18"	3 GAL.	3-5	PLANT 1.5' O.C.	310
TRAC	TRACHELOSPERMUM ASIATICUM	ASIATIC JASMINE				PINT	5-7	PLANT 18" O.C.	6,750

PRELIMINARY
NOT FOR CONSTRUCTION

GRAPHIC SCALE 1" = 20'-0"
0' 10' 20' 40' 60'

GRIMBALL COTTERILL
LANDSCAPE ARCHITECTS & LAND PLANNERS

Date	Revisions

ASSEMBLY STREET STREETSCAPE
Planting Plan

GRIMBALL & ASSOCIATES COTTERILL
LANDSCAPE ARCHITECTS & LAND PLANNERS
600 BELTLINE BOULEVARD COLUMBIA, SC 29205 (803)738-9525

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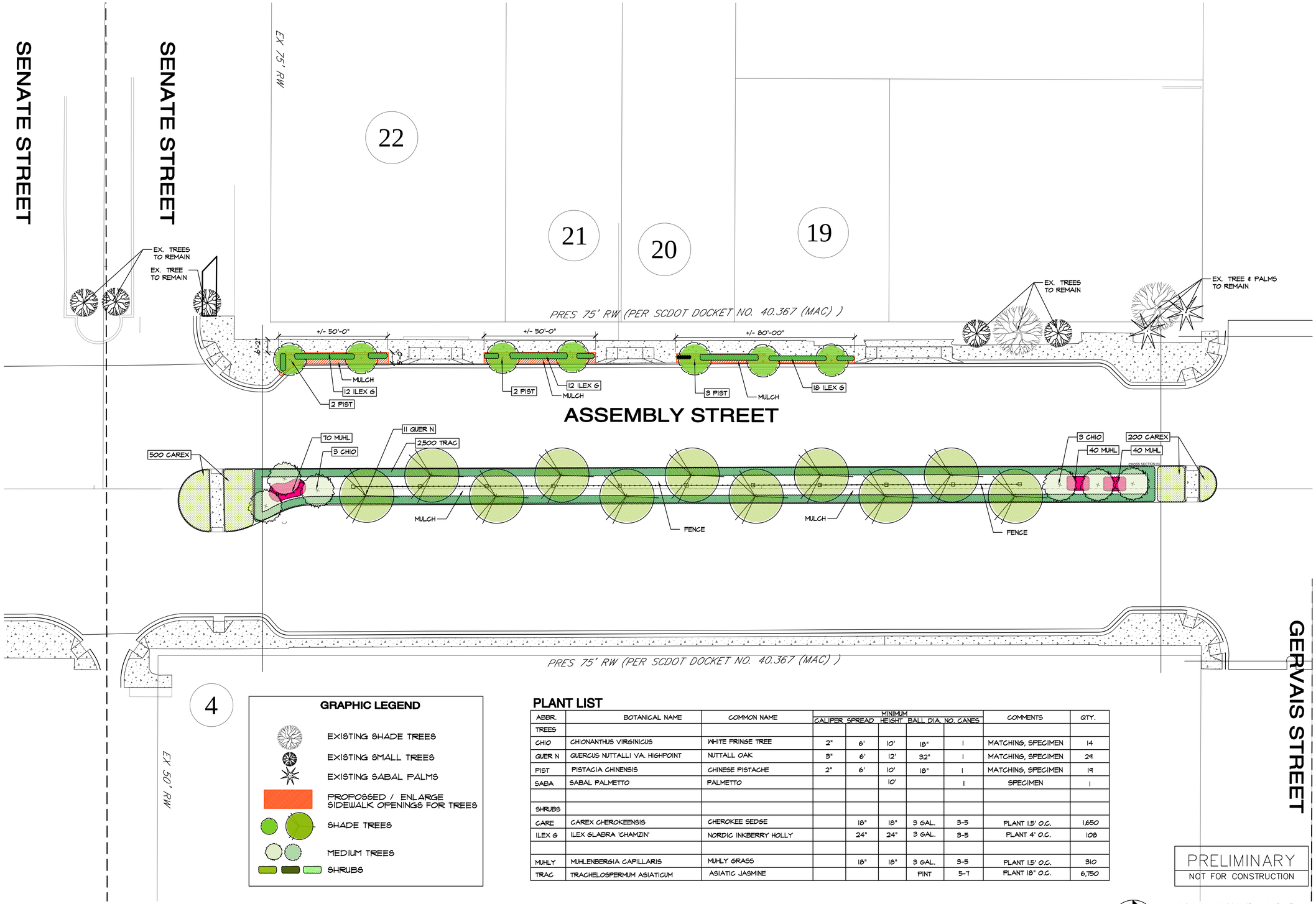
Drawn by:	MTM
Checked by:	TMC
Date:	07.28.2023
Drawing No.	L.1
Sheet No.	1 OF 4

Jul 14, 2023 – 9:56am \\PALMETTO\Grimcott\Active Projects on Maple\A-E Projects\Assembly Street 2021\ACAD\GC-LANDBASE 07.13.23.dwg.



GRAPHIC LEGEND

- EXISTING SHADE TREES
- EXISTING SMALL TREES
- EXISTING SABAL PALMS
- PROPOSED / ENLARGE SIDEWALK OPENINGS FOR TREES
- SHADE TREES
- MEDIUM TREES
- SHRUBS

PLANT LIST

ABBR.	BOTANICAL NAME	COMMON NAME	MINIMUM CALIPER	MINIMUM SPREAD	MINIMUM HEIGHT	MINIMUM BALL DIA.	MINIMUM NO. CANES	COMMENTS	QTY.
TREES									
CHIO	CHIONANTHUS VIRGINICUS	WHITE FRINGE TREE	2"	6'	10'	18"	1	MATCHING, SPECIMEN	14
QUER N	QUERCUS NUTTALLI VA. HIGHPOINT	NUTTALL OAK	3"	6'	12'	32"	1	MATCHING, SPECIMEN	29
PIST	PISTACIA CHINENSIS	CHINESE PISTACHE	2"	6'	10'	18"	1	MATCHING, SPECIMEN	19
SABA	SABAL PALMETTO	PALMETTO			10'		1	SPECIMEN	1
SHRUBS									
CARE	CAREX CHEROKEENSIS	CHEROKEE SEDGE		18"	18"	3 GAL.	3-5	PLANT 1.5' O.C.	1,650
ILEX G	ILEX GLABRA 'CHAMZIN'	NORDIC INKBERRY HOLLY		24"	24"	3 GAL.	3-5	PLANT 4' O.C.	108
MUHLY	MUHLENBERGIA CAPILLARIS	MUHLY GRASS		18"	18"	3 GAL.	3-5	PLANT 1.5' O.C.	310
TRAC	TRACHELOSPERMUM ASIATICUM	ASIATIC JASMINE				PINT	5-7	PLANT 18" O.C.	6,750

PRELIMINARY
NOT FOR CONSTRUCTION

GRAPHIC SCALE 1" = 20'-0"
0' 10' 20' 40' 60'

GRIMBALL COTTERILL
LANDSCAPE ARCHITECTS & LAND PLANNERS

Date	Revisions

ASSEMBLY STREET STREETSCAPE
Planting Plan

GRIMBALL & ASSOCIATES COTTERILL
LANDSCAPE ARCHITECTS & LAND PLANNERS
600 BELTLINE BOULEVARD COLUMBIA, SC 29205 (803)738-9525

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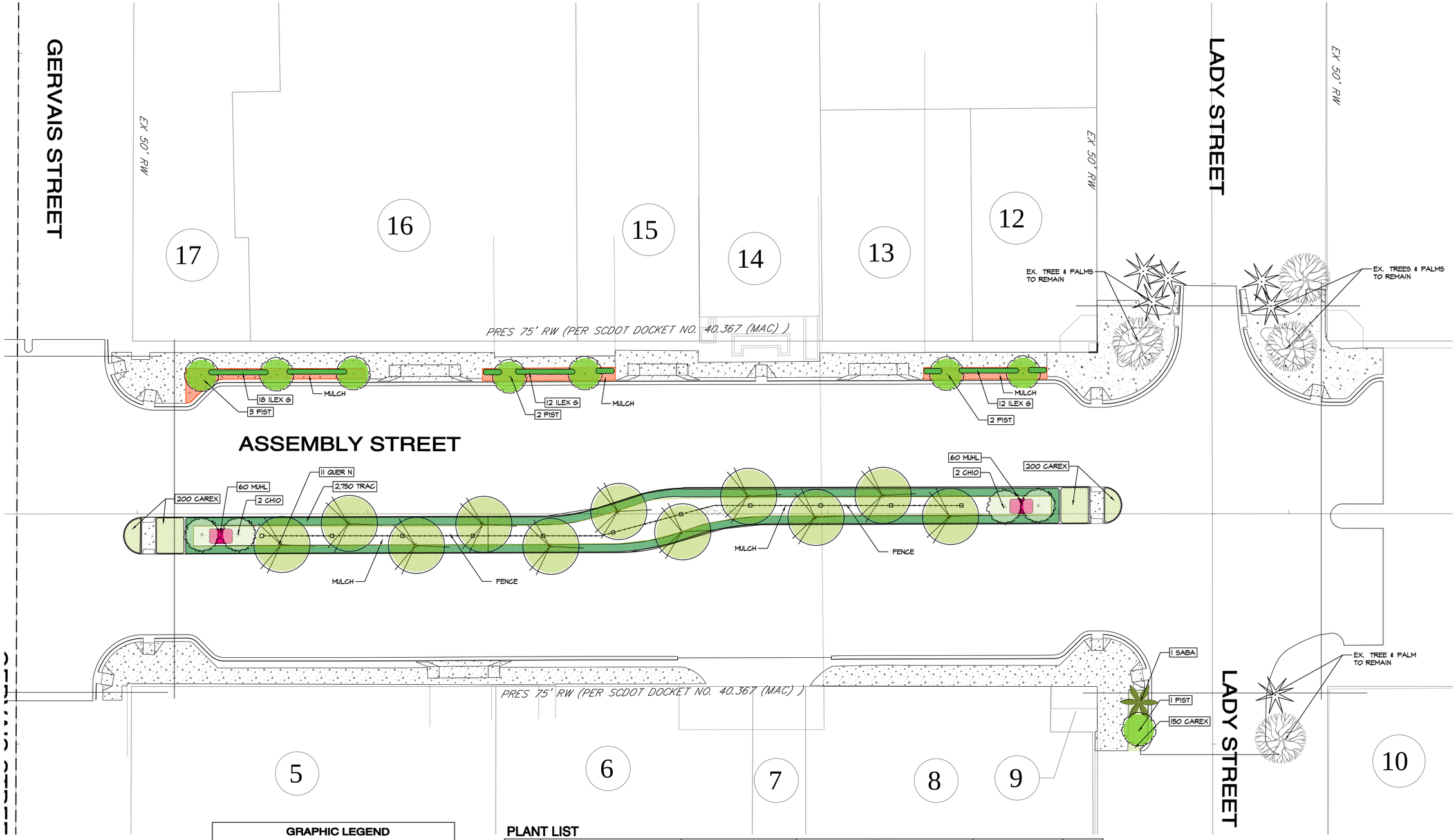
Checked by: TMC
Date: 07.28.2023
Drawing No. L.2
Sheet No. 2 OF 4

Jul 14, 2023 – 9:52am \\PALMETTO\Grimcott\Active Projects on Maple\A-E Projects\Assembly Street 2021\ACAD\GC-LANDBASE 07.13.23.dwg.



GRAPHIC LEGEND

- EXISTING SHADE TREES
- EXISTING SMALL TREES
- EXISTING SABAL PALMS
- PROPOSSED / ENLARGE SIDEWALK OPENINGS FOR TREES
- SHADE TREES
- MEDIUM TREES
- SHRUBS

PLANT LIST

ABBR.	BOTANICAL NAME	COMMON NAME	MINIMUM CALIPER	MINIMUM SPREAD	MINIMUM HEIGHT	MINIMUM BALL DIA.	MINIMUM NO. CANES	COMMENTS	QTY.
TREES									
CHIO	CHIONANTHUS VIRGINICUS	WHITE FRINGE TREE	2"	6'	10'	18"	1	MATCHING, SPECIMEN	14
QUER N	QUERCUS NUTTALLI VA. HIGHPOINT	NUTTALL OAK	3"	6'	12'	32"	1	MATCHING, SPECIMEN	29
PIST	PISTACIA CHINENSIS	CHINESE PISTACHE	2"	6'	10'	18"	1	MATCHING, SPECIMEN	19
SABA	SABAL PALMETTO	PALMETTO			10'		1	SPECIMEN	1
SHRUBS									
CARE	CAREX CHEROKEENSIS	CHEROKEE SEDGE		18"	18"	3 GAL.	3-5	PLANT 1.5' O.C.	1,650
ILEX G	ILEX GLABRA 'CHAMZIN'	NORDIC INKBERRY HOLLY		24"	24"	3 GAL.	3-5	PLANT 4' O.C.	108
MUHLY	MUHLENBERGIA CAPILLARIS	MUHLY GRASS		18"	18"	3 GAL.	3-5	PLANT 1.5' O.C.	310
TRAC	TRACHELOSPERMUM ASIATICUM	ASIATIC JASMINE				PINT	5-7	PLANT 18" O.C.	6,750

PRELIMINARY
NOT FOR CONSTRUCTION

GRAPHIC SCALE 1" = 20'-0"
0' 10' 20' 40' 60'

GRIMBALL COTTERILL
LANDSCAPE ARCHITECTS & LAND PLANNERS

Date	Revisions

ASSEMBLY STREET STREETSCAPE
Planting Plan

600 BELTLINE BOULEVARD COLUMBIA, SC 29205 (803) 738-9525

GRIMBALL & ASSOCIATES COTTERILL
LANDSCAPE ARCHITECTS & LAND PLANNERS

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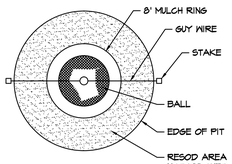
Drawn by:	MTM
Checked by:	TMC
Date:	07.28.2023
Drawing No.	L.3
Sheet No.	3 OF 4

Jul 14, 2023 – 9:47am \\PALMETTO\Grimcott\Active Projects on Maple\A-E Projects\Assembly Street 2021\ACAD\GC-LANDBASE 07.13.23.dwg

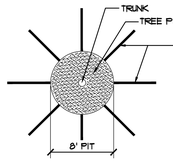


PLAN DETAIL

NO SCALE

NOTES:

1. TEST FOR PERCOLATION PRIOR TO PLANTING.
2. WATER AFTER PLANTING.
3. DO NOT WRAP TREES
4. REMOVE BURLAP/STRAPPING AND WIRE FROM TOP 1/3 OF ROOT BALL.
5. DIG TREE PIT WITH BACKHOE OR SIMILAR EQUIPMENT.
6. NO TREE IS TO BE PLANTED LONER THAN THE ELEVATION THAT THE TREE WAS GROWN AT THE NURSERY. REMOVE BUILT UP SOIL AS NECESSARY.

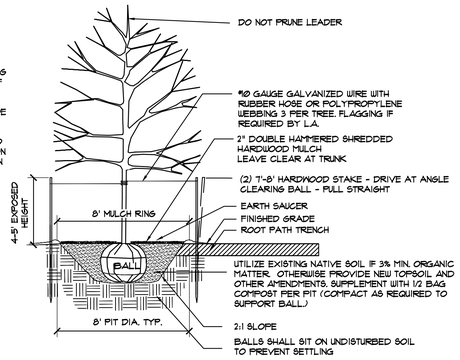


TRENCH/TILL SOIL OUTWARD FROM TREE PIT SPACE TRENCH PATHS AT ±36" O.C. TRENCH OR TILL TO A DEPTH AND WIDTH OF 18" AND TO A DISTANCE OF 6' FROM TRUNK (TYP.) LOOSEN SOIL AND BACKFILL. AVOID RE-COMPACTING AREA.

TRENCH PATHS MAY VARY WITH CONFIGURATION OF PLANTING AREA BUT SHOULD PROVIDE 36" O.C. SPACING

PLAN DETAIL: ROOT PATH TRENCHES

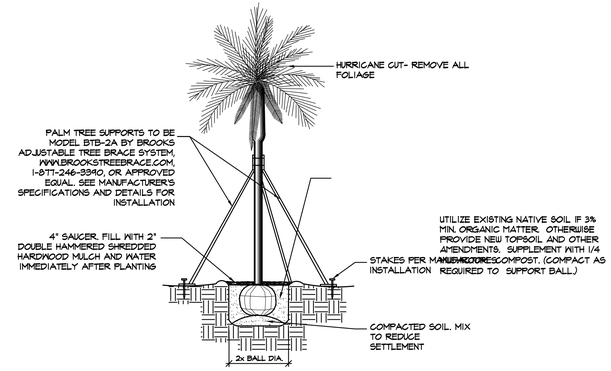
NO SCALE



A L-4 TREE PLANTING AND STAKING

SECTION

NOT TO SCALE



NOTE

- PLANT SO THAT TOP OF ROOT BALL IS 1 1/2-2" ABOVE FINISHED GRADE.

B L-4 PALMETTO PLANTING

NOT TO SCALE

GENERAL NOTES

1. EXISTING ECOLOGY AND AESTHETICS WILL OFTEN CAUSE ADJUSTMENT OF THESE PLANS TO FIT THE SITE. STAKE-OUT BY THE CONTRACTOR AND ADJUSTMENT BY THE LANDSCAPE ARCHITECT IS ABSOLUTELY NECESSARY.

2. LOCATIONS OF THOSE UTILITIES SHOWN ARE APPROXIMATE AND FOR INFORMATION PURPOSES ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXACT LOCATION OF ALL UTILITIES WHETHER SHOWN OR NOT SHOWN ON THESE PLANS, AND SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE RESULTING FROM THE FAILURE TO DO SO. CONTACT PALMETTO UTILITY PROTECTION SERVICE AT 1-888-721-7877 AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION.

3. CONTRACTOR SHALL INFORM LANDSCAPE ARCHITECT IF PROPOSED DESIGN IS IN CONFLICT WITH EXISTING OR PROPOSED UTILITIES. CONTRACTOR SHALL COORDINATE WITH LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION TO ADJUST PROPOSED DESIGN OR UTILITIES AS NECESSARY TO RESOLVE CONFLICTS.

4. BASE PLAN DATA DERIVED FROM SITE SURVEY.
PROVIDED BY_____DATED_____

PLANTING NOTES

1. PLANTS LABELED NIG ARE NOT IN CONTRACT AND ARE NOT A PART OF THIS PHASE OF WORK. PLANTING FOR MUCH OF THIS PROJECT WILL BE DONE IN PREVIOUSLY PAVED AREAS. IT IS CRITICAL THAT THE CONTRACTOR BREAK UP COMPACTED SOIL THOROUGHLY, REMOVE INORGANIC SUBSOIL, AND PROVIDE NEW TOPSOIL AND PLANTING AMENDMENTS AS REQUIRED TO ENSURE FUTURE PLANT HEALTH.

2. REQUIREMENTS FOR THE MEASUREMENTS, BRANCHING, GRADING, QUALITY, BALLING AND BURLAPPING OF PLANTS IN THE PLANT LIST GENERALLY FOLLOWS OR EXCEEDS A CODE OF STANDARDS CURRENTLY RECOMMENDED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN THE AMERICAN STANDARD FOR NURSERY STOCKS. SEE THE PLANT LIST FOR MORE RESTRICTIVE REQUIREMENTS.

3. ALL PLANTS SHALL HAVE A WELL FORMED HEAD WITH MINIMUM CALIPER, HEIGHT AND SPREAD OF THE SIDE BRANCHES AS SHOWN ON THE PLANT LIST. TRUNKS SHALL BE UNDAMAGED AND SHAPE SHALL BE TYPICAL OF THE SPECIES.

4. MEASUREMENT OF CONIFER HEIGHT SHALL INCLUDE NOT MORE THAN FIFTY (50) PER CENT OF THIS YEARS' VERTICAL GROWTH (TOP CANDLE).

5. THE LANDSCAPE CONTRACTOR IS HEREBY NOTIFIED OF THE EXISTENCE OF UNDERGROUND UTILITIES WITHIN THE LIMITS OF THE PROJECT AREA. THE CONTRACTOR SHOULD VERIFY THE EXACT LOCATION OF ALL UTILITY LINES PRIOR TO COMMENCEMENT OF DIGGING OPERATIONS.

6. THE CONTRACTOR WILL BE RESPONSIBLE FOR STAKING AND LAYOUT OF PLANTINGS ON THIS PROJECT. THE LANDSCAPE ARCHITECT OR OWNER SHALL BE ADVISED WHEN STAKES ARE READY FOR INSPECTION ON VARIOUS PLANTING AREAS. ALL LAYOUT WORK SHALL BE INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT AND OWNER PRIOR TO OPENING ANY PLANTING PITS.

7. IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO VERIFY THAT EACH EXCAVATED TREE OR SHRUB PIT WILL PERCOLATE (DRAIN) PRIOR TO ADDING TOPSOIL AND INSTALLING TREES OR SHRUBS. THE CONTRACTOR SHALL DO PERCOLATION TEST AS DETAILED ON DETAIL D/L-2. THE OWNER OR LANDSCAPE ARCHITECT SHALL VERIFY ACCURACY AND EFFECT OF PERCOLATION TESTING. IF THE SOIL AT GIVEN AREA DOES NOT DRAIN PROPERLY, A PVC DRAIN OR GRAVEL SUMP SHALL BE INSTALLED OR THE PLANTINGS RELOCATED.

8. SHOULD THE LANDSCAPE CONTRACTOR ENCOUNTER UNSATISFACTORY SURFACE OR SUBSURFACE DRAINAGE CONDITIONS, SOIL DEPTH, LATENT SOILS, HARD PANS, STEAM OR OTHER UTILITY LINES OR OTHER CONDITIONS THAT WILL JEOPARDIZE THE HEALTH AND VIGOR OF THE PLANTS, HE MUST ADVISE THE LANDSCAPE ARCHITECT IN WRITING OF THE CONDITIONS PRIOR TO INSTALLING THE PLANTS. OTHERWISE, THE LANDSCAPE CONTRACTOR WARRANTS THAT THE PLANTING AREAS ARE SUITABLE FOR PROPER GROWTH AND DEVELOPMENT OF THE PLANTS TO BE INSTALLED.

9. PLANTING PITS FOR TREE AND SHRUBS SHALL BE PREPARED AS PER DETAILS.

10. DOUBLE HAMMERED SHREDDED HARDWOOD MULCH SHALL BE APPLIED TO ALL SHRUB BEDS BY THE CONTRACTOR. BEDS SHALL BE TREATED WITH PREEMERGENT HERBICIDE BY THE CONTRACTOR BEFORE MULCH IS APPLIED. SHREDDED HARDWOOD MULCH SHALL BE TWO INCHES DEEP. A SAMPLE OF MULCH SHALL BE PRESENTED TO THE LANDSCAPE ARCHITECT FOR APPROVAL.

11. ALL TREES ARE TO BE STAKED IMMEDIATELY AFTER PLANTING AS DETAILED. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF STAKING HOSES, ETC. AT THE END OF THE ONE YEAR GUARANTEE PERIOD.

12. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING UP THE SITE AT THE COMPLETION OF THE PROJECT AND SHALL MAINTAIN THE SITE IN A REASONABLY NEAT AND CLEAN STATE THROUGHOUT THE INSTALLATION PROCESS. STREETS AND PAVED AREAS SHALL BE CLEANED REGULARLY TO REMOVE CONSTRUCTION MATERIALS AND OTHER DEBRIS RESULTING FROM WORK OF THE PROJECT.

13. PLANTS SHALL BE GUARANTEED FOR THE DURATION OF ONE (1) FULL YEAR AFTER THE FINAL ACCEPTANCE OF THE PLANTING BY THE OWNER AND SHALL BE ALIVE AND IN SATISFACTORY GROWTH AT THE END OF THE GUARANTEE PERIOD. ANY PLANT NOT IN A HEALTHY AND VIGOROUS STATE AT THE END OF THE GUARANTEE PERIOD SHALL BE REPLACED AT NO COST TO THE OWNER. PLANTS SEVERELY DAMAGED BY VANDALS ARE NOT SUBJECT TO REPLACEMENT BY THE CONTRACTOR DURING THE ONE YEAR GUARANTEE PERIOD.

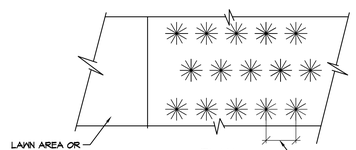
14. REPLACEMENTS OF DEAD OR UNSATISFACTORY MATERIAL SHALL BE MADE AS SPECIFIED IN THE PLANT LIST. THE OWNER OR LANDSCAPE ARCHITECT SHALL INSPECT REPLACED PLANTS WHEN ALL REPLACEMENTS HAVE BEEN MADE. REPLACEMENTS ARE TO BE ALIVE AND IN A HEALTHY CONDITION WHEN THE REPLACEMENTS ARE COMPLETE, AND SHALL BE SUBJECT TO A ONE (1) YEAR GUARANTEE FROM THE DATE OF SATISFACTORY REPLACEMENT.

15. NO EXCAVATION OR PLANTING PIT SHALL BE LEFT OPEN OR UNATTENDED OVERNIGHT.

16. PLANT MATERIAL QUANTITIES PROVIDED IN THE PLANT LIST ARE FOR REFERENCE ONLY AND THE CONTRACTOR IS RESPONSIBLE FOR THE ACTUAL PLANT MATERIAL COUNTS. DISCREPANCIES BETWEEN QUANTITIES SHOWN ON THE PLANTING PLAN AND THOSE IN THE PLANT LIST SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR CLARIFICATION. IF CLARIFICATION OF DISCREPANCIES FROM THE LANDSCAPE ARCHITECT IS NOT POSSIBLE, THEN QUANTITIES SHOWN ON THE PLANTING PLAN SHALL TAKE PRECEDENCE.

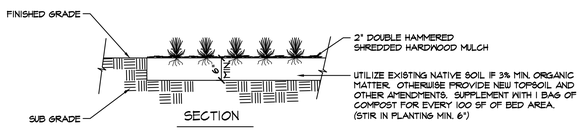
17. ALL AREAS DISTURBED BY CONSTRUCTION OPERATIONS (WHETHER SHOWN ON THE PLANS OR NOT) SHALL BE STABILIZED AND EITHER SEEDED, SODDED, OR MULCHED BY CONTRACTOR, AS DIRECTED BY OWNER, AT NO ADDITIONAL COST TO CONTRACT.

GRASSING SCHEDULE (PER 1000 SF)



PLAN

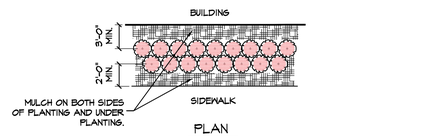
NOTE:
TILL COMPOST 6" DEEP. REMOVE ALL STICKS, STONES, ETC. RAKE SMOOTH PRIOR TO PLANTING.



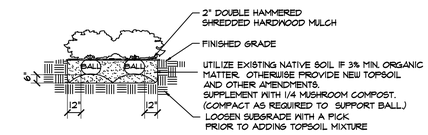
SECTION

C L-4 TYPICAL GROUNDCOVER PLANTING

NOT TO SCALE



PLAN



NOTES:
1. TEST FOR PERCOLATION PRIOR TO PLANTING.
2. REMOVE PAPER, PLASTIC OR METAL CONTAINER THAT MAY BE AROUND ROOTS
3. WATER AFTER PLANTING
4. DO BED PREPARATION ON ALL SHRUB & GROUNDCOVER AREAS

SECTION

D L-4 SHRUB PLANTING

NOT TO SCALE

INSTRUCTIONS FOR PERFORMING A PERCOLATION TEST

1. WITH A SHOVEL OR POSTHOLE DIGGER, DIG HOLE 18" TO 24" DEEP. HOLE DIAMETER SHOULD BE A MINIMUM OF 4 INCHES. THE DIAMETER OF THE HOLE SHOULD BE UNIFORM FROM TOP TO BOTTOM WITH THE BOTTOM BEING FLAT.

2. FILL HOLE WITH WATER TO THE TOP AND LET STAND FOR AT LEAST AN HOUR TO PRE-WET THE SOIL.

3. REFILL HOLE TO WITHIN A COUPLE INCHES OF THE TOP. DON'T OVERFLOW THE HOLE.

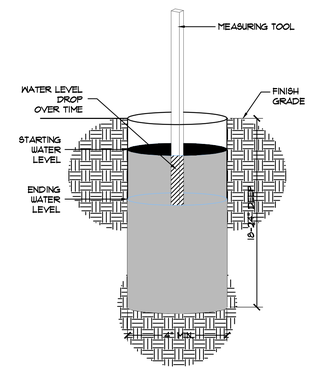
4. TO AID IN MEASUREMENT, PLACE A STICK ACROSS THE TOP OF THE HOLE AND USE A RULER OR MEASURING TAPE TO MARK PERIODIC DROPS IN WATER LEVEL.

5. ALLOW THE HOLE TO DRAIN FOR AT LEAST ONE HOUR. A LONGER PERIOD OF TIME (2 TO 3 HOURS) WILL GIVE A MORE ACCURATE READING OF AVERAGE PERCOLATION RATES.

6. DETERMINE AVERAGE DROP IN WATER LEVEL PER HOUR AND REFER TO THE TABLE BELOW TO INTERPRET RESULTS.

HOW TO INTERPRET RESULTS	
IF WATER LEVEL IN HOLE DROPS...	SITE IS...
LESS THAN ONE-HALF INCH PER HOUR	POORLY DRAINED AND SUITED TO WET -SITE SPECIES
ONE HALF-INCH TO ONE INCH PER HOUR	MODERATELY WELL DRAINED AND ACCEPTABLE FOR MANY SPECIES INCLUDING WET SITE SPECIES
MORE THAN ONE INCH PER HOUR	WELL DRAINED AND SUITABLE FOR ALL SPECIES INCLUDING SENSITIVE SPECIES

PERCOLATION TEST HOLE

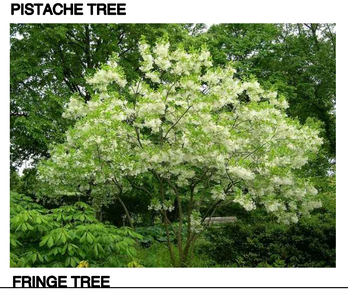


E L-4 PERCOLATION TEST

ISOMETRIC

NOT TO SCALE

PISTACHE TREE



FRINGE TREE

NUTALL OAK HIGH POINT

SABAL PALM

ASIATIC JASMINE

CHEROKKE SEDGE

MUHLY GRASS

NORDIC INKBERRY HOLLY

Revisions	
Date	

ASSEMBLY STREET STREETSCAPE
Planting Details, Notes, Pictures

600 BEITLINE BOULEVARD COLUMBIA, SC 29205 (803)738-9525

GRIMBALL & ASSOCIATES COTTERILL
LANDSCAPE ARCHITECTS & LAND PLANNERS

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Checked by:	TMC
Date:	07.28.2023
Drawing No.	L.4
Sheet No.	4 OF 4

PRELIMINARY
NOT FOR CONSTRUCTION

Jul 14, 2023 – 9:46am \\PALMETTO\Grimcott\Active Projects on Maple\A-E Projects\Assembly Street 2021\ACAD\GC-LANDBASE 07.13.23.dwg.

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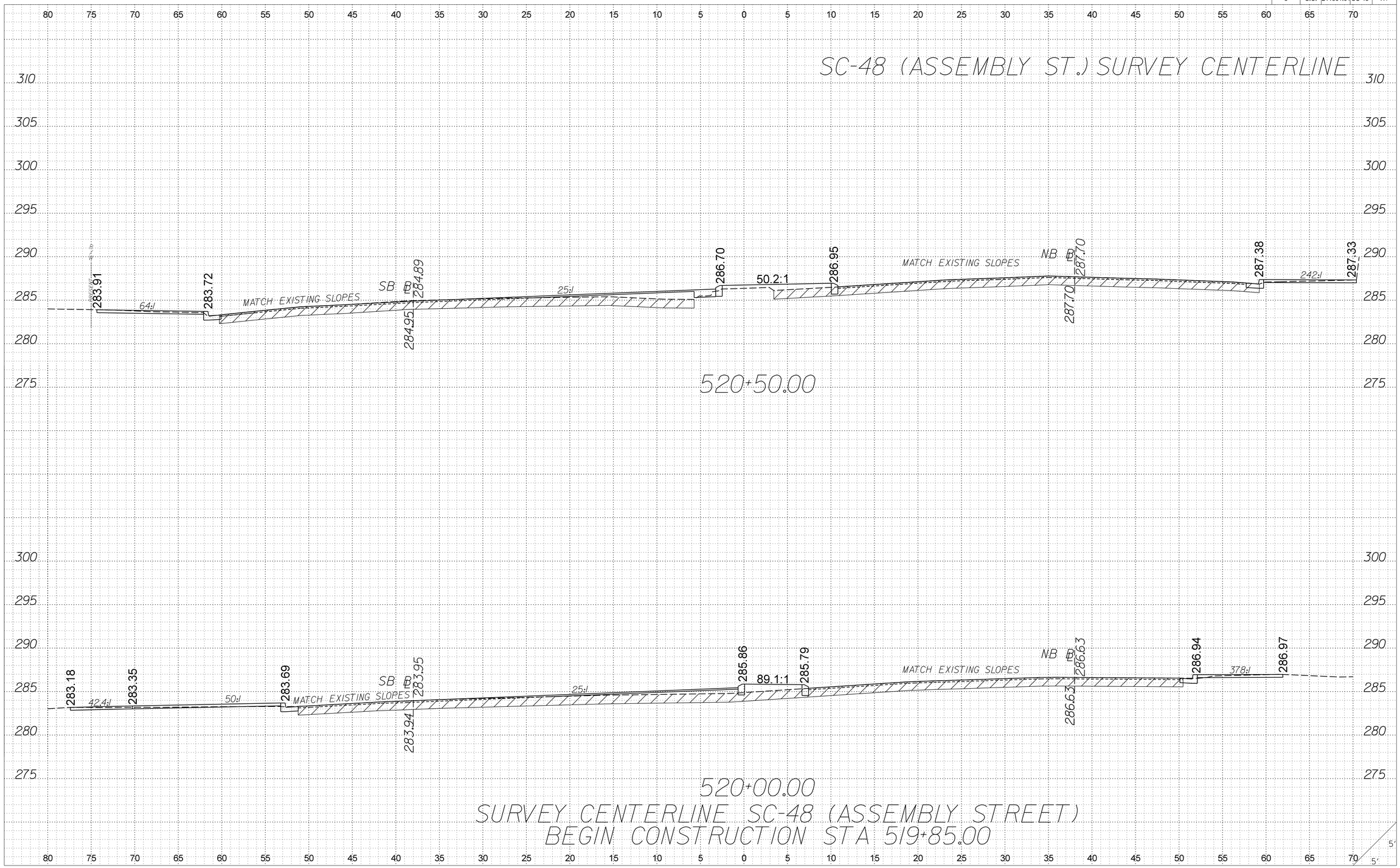

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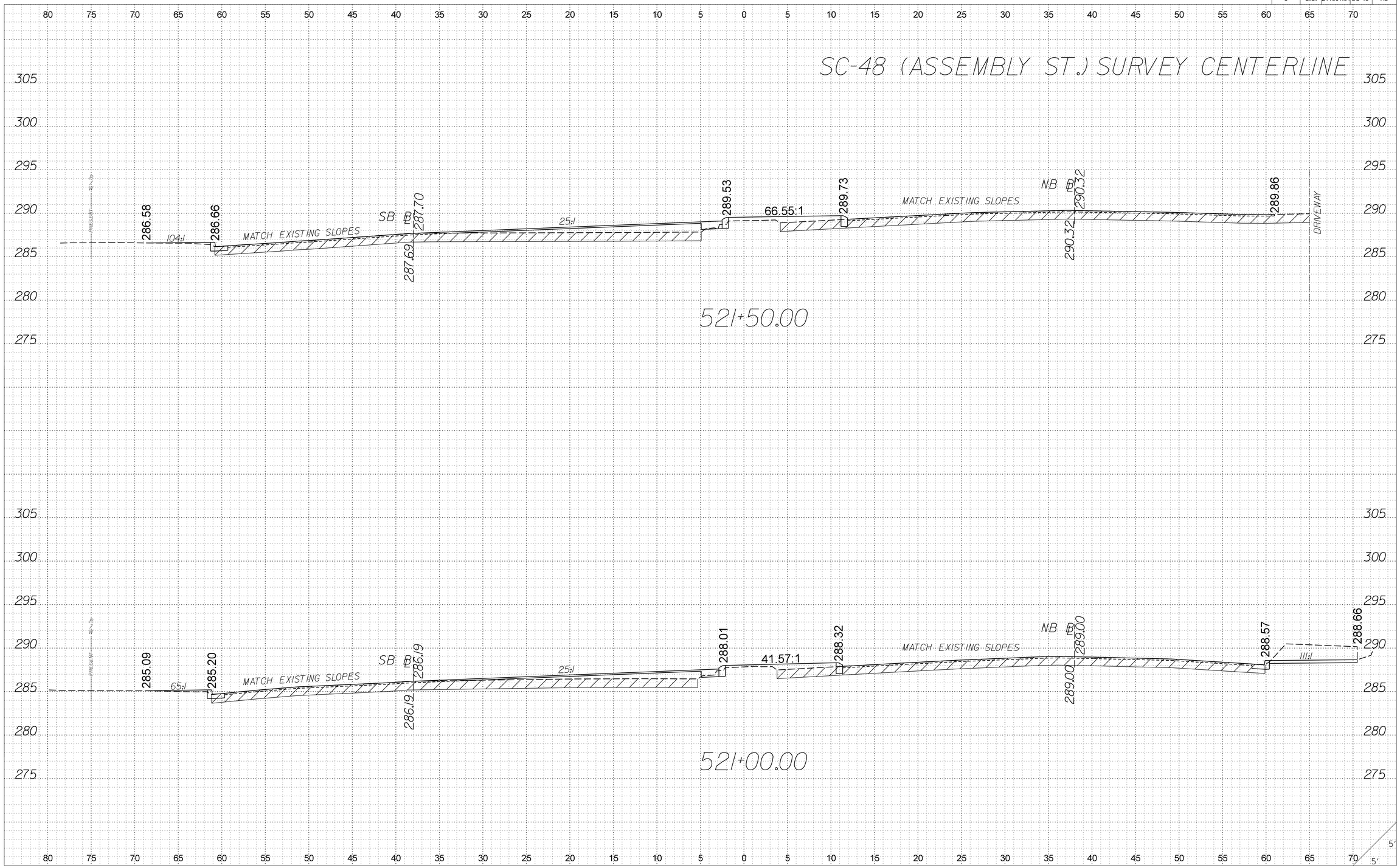

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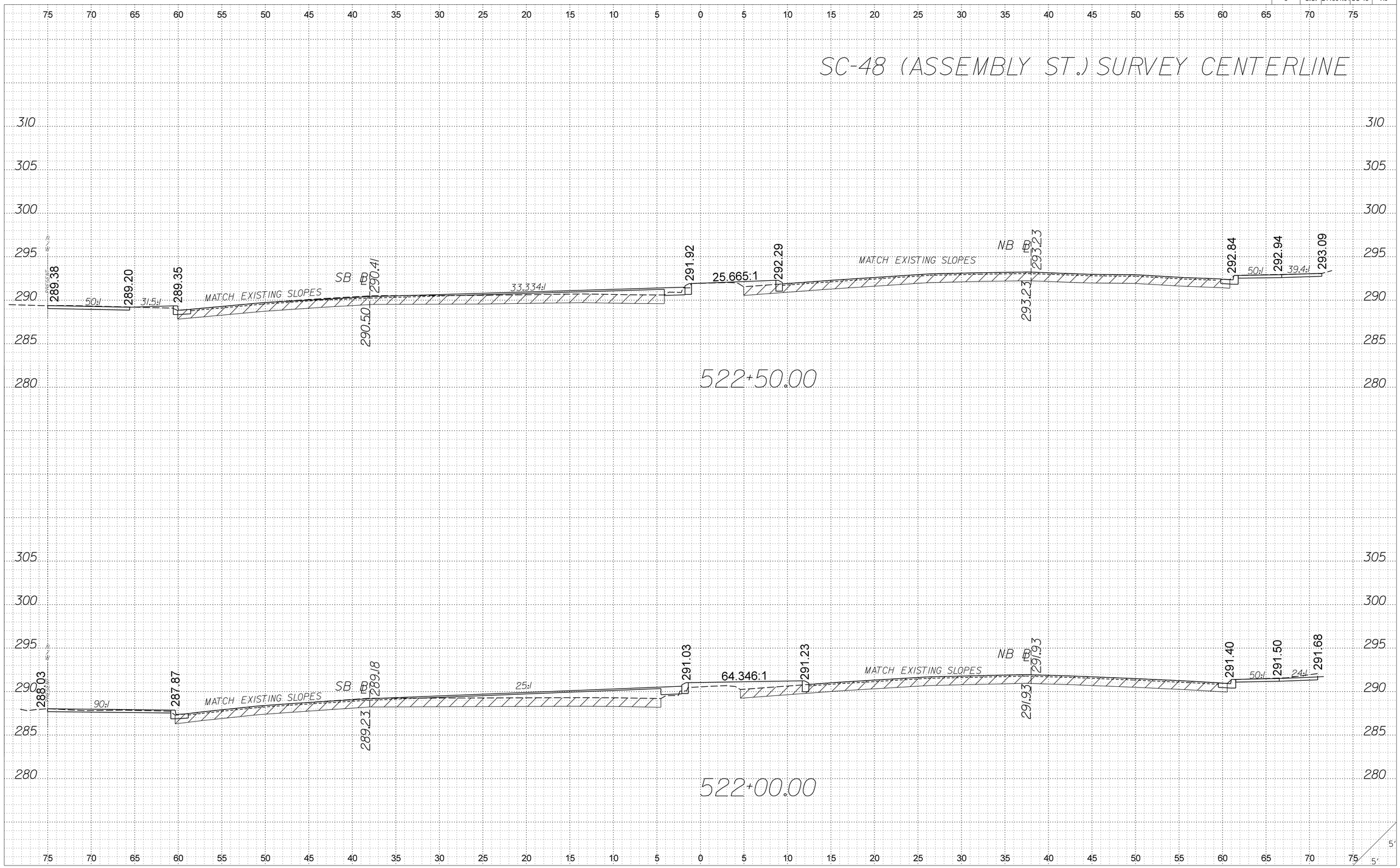

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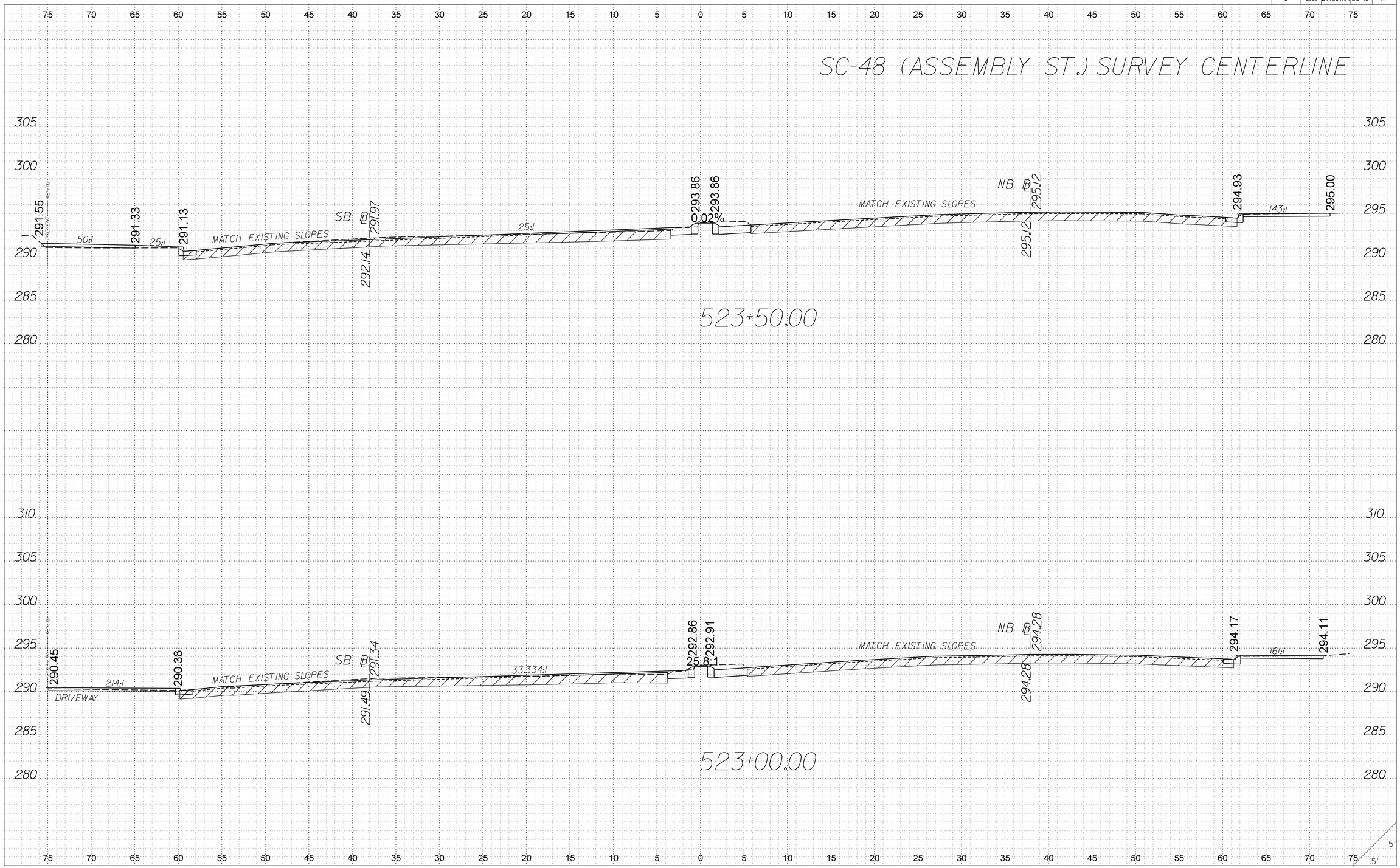

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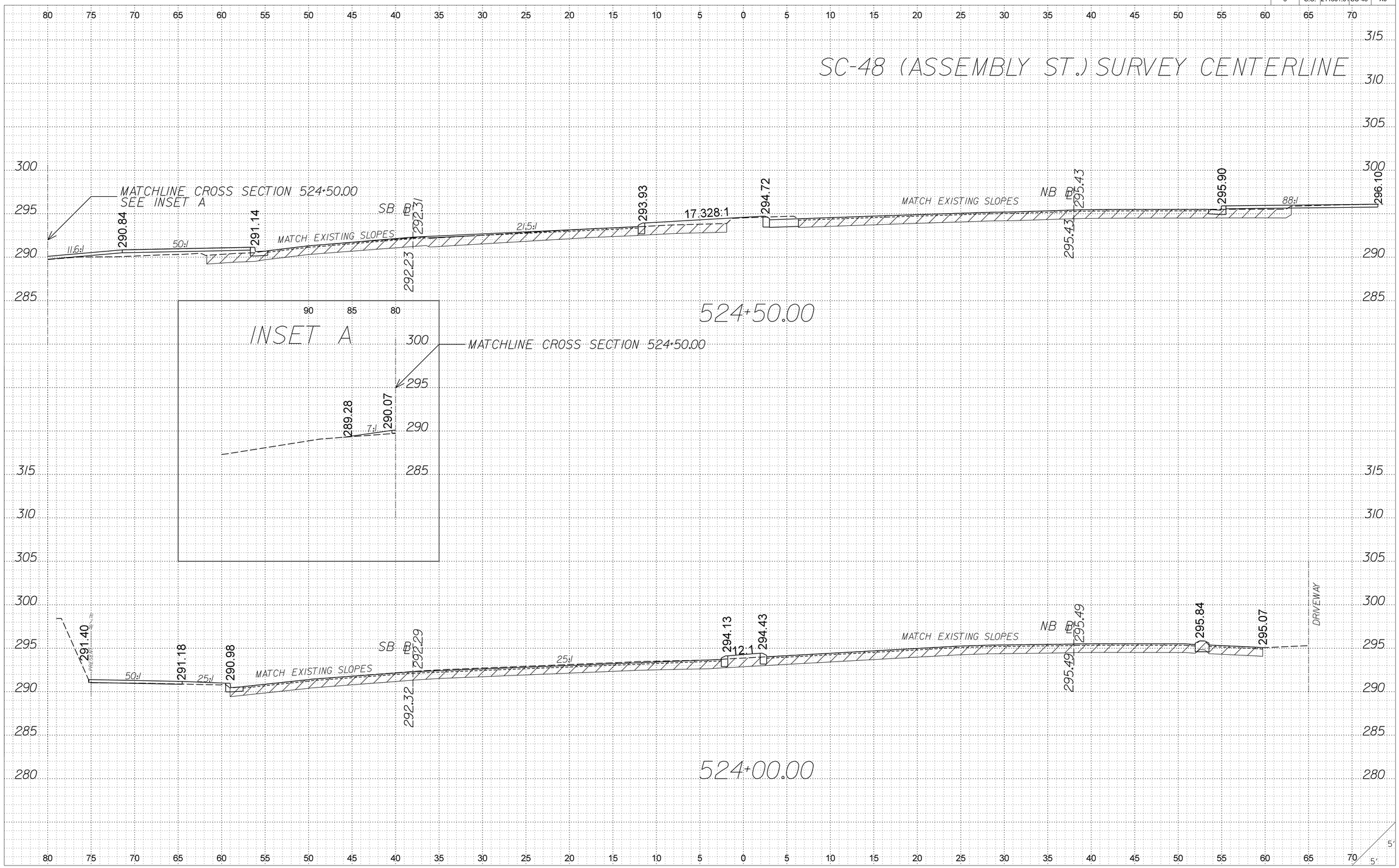

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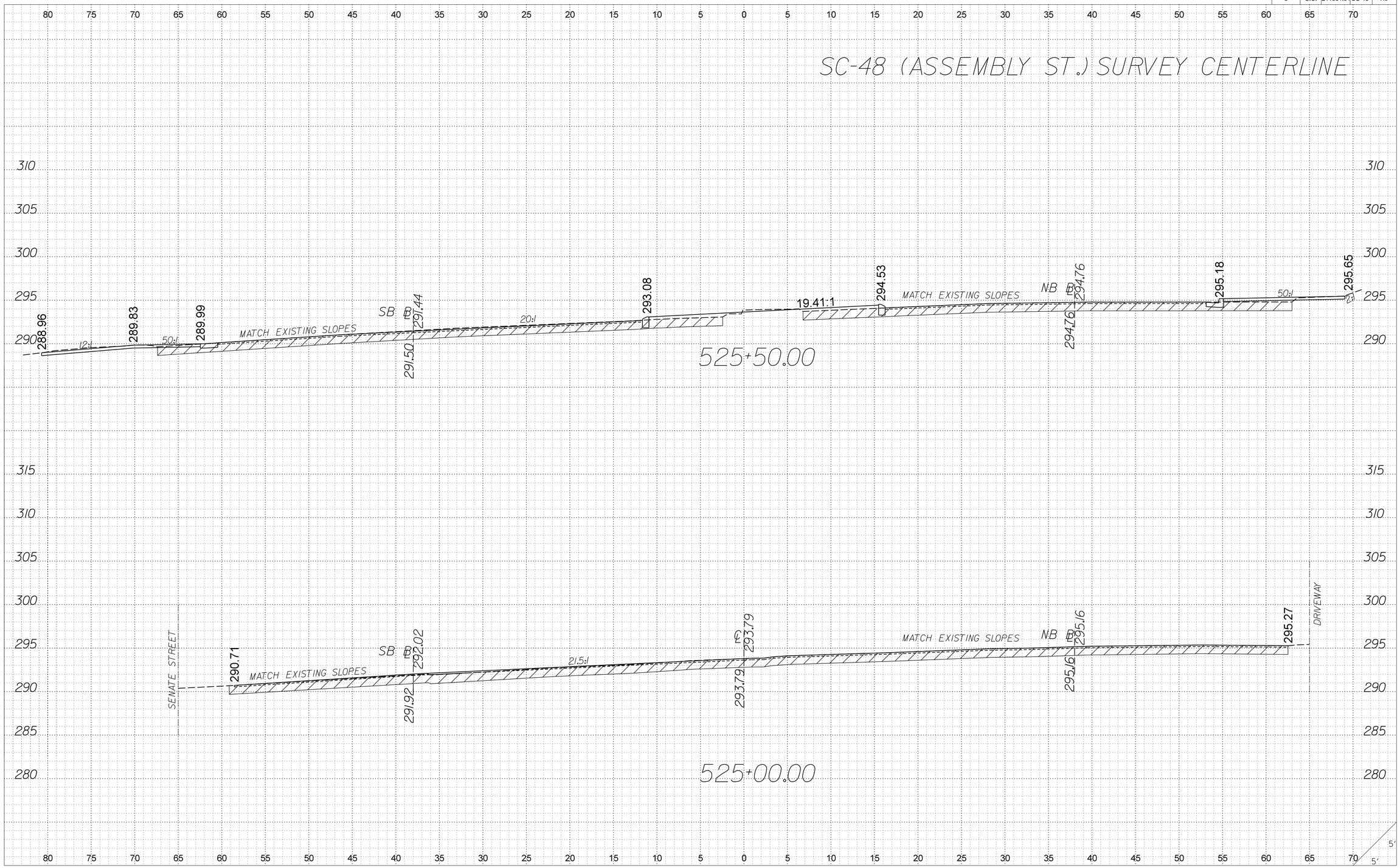

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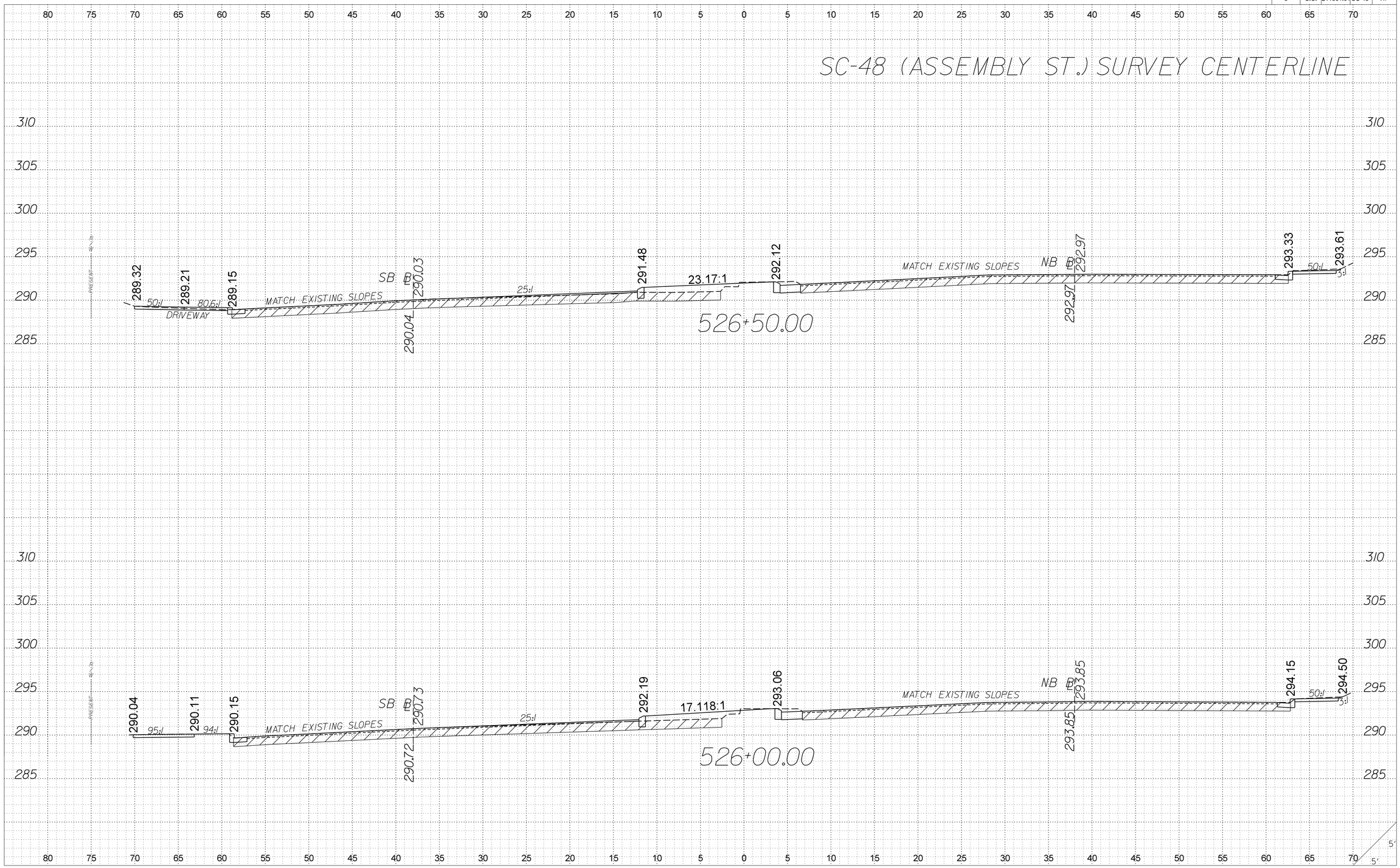

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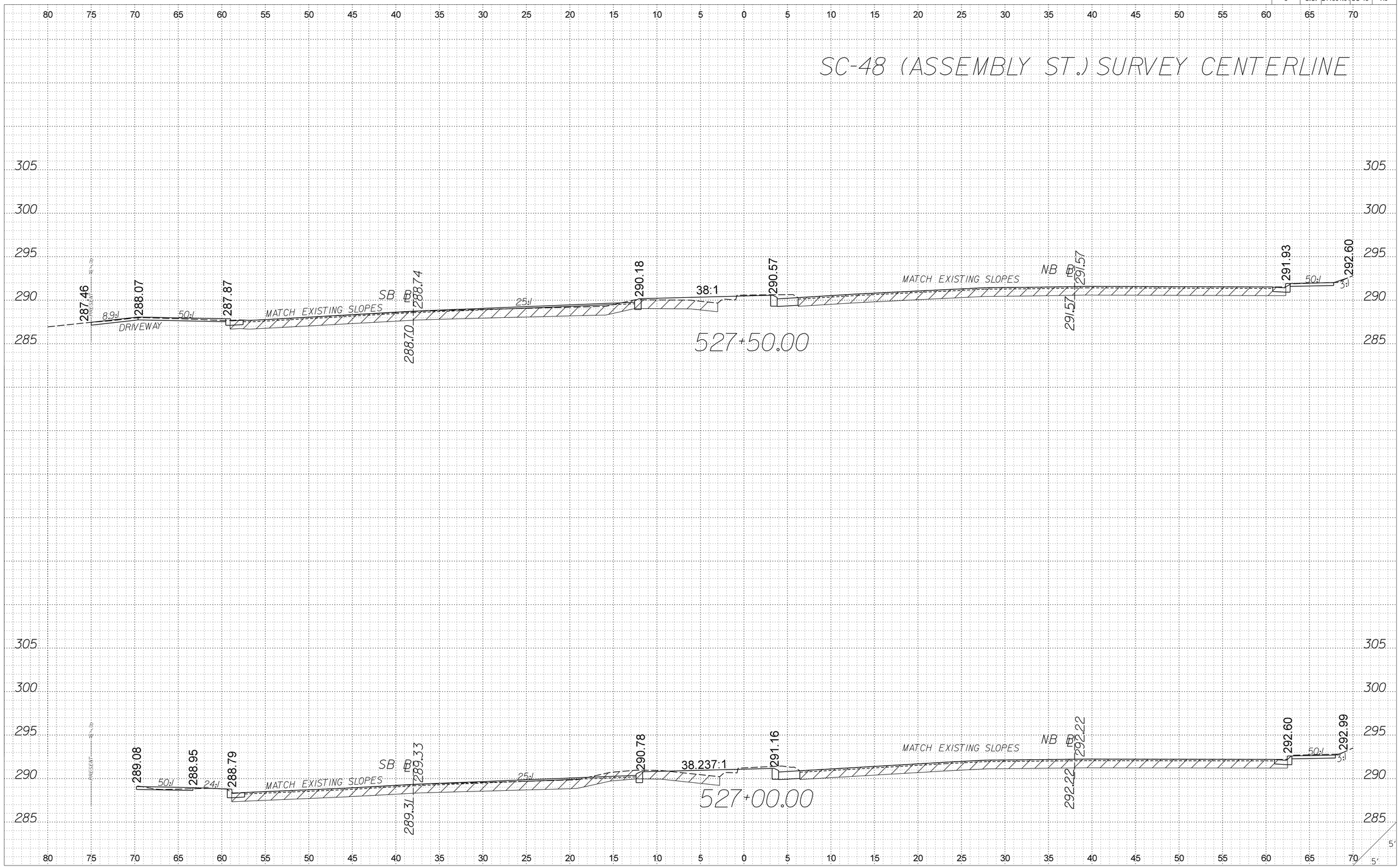

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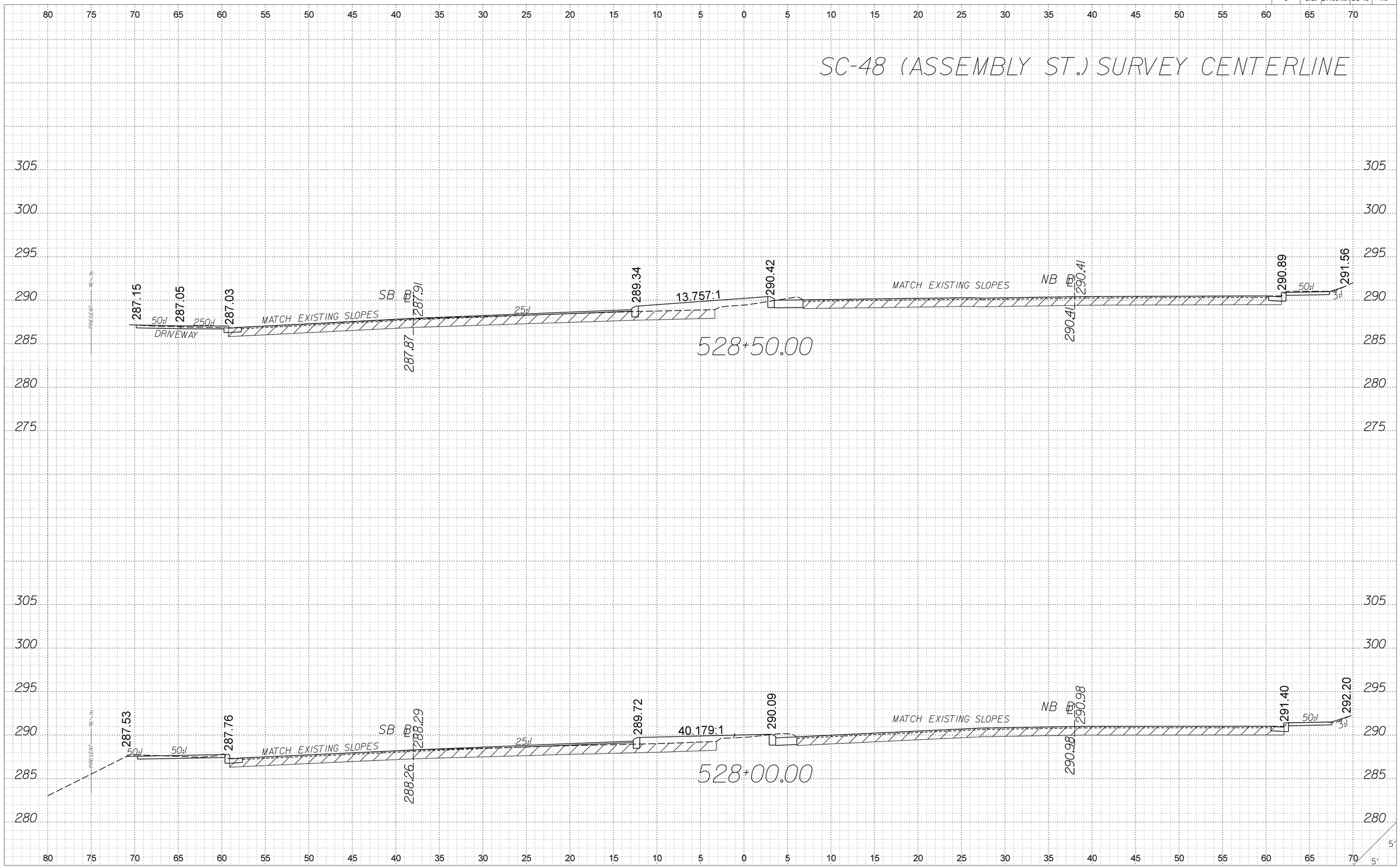

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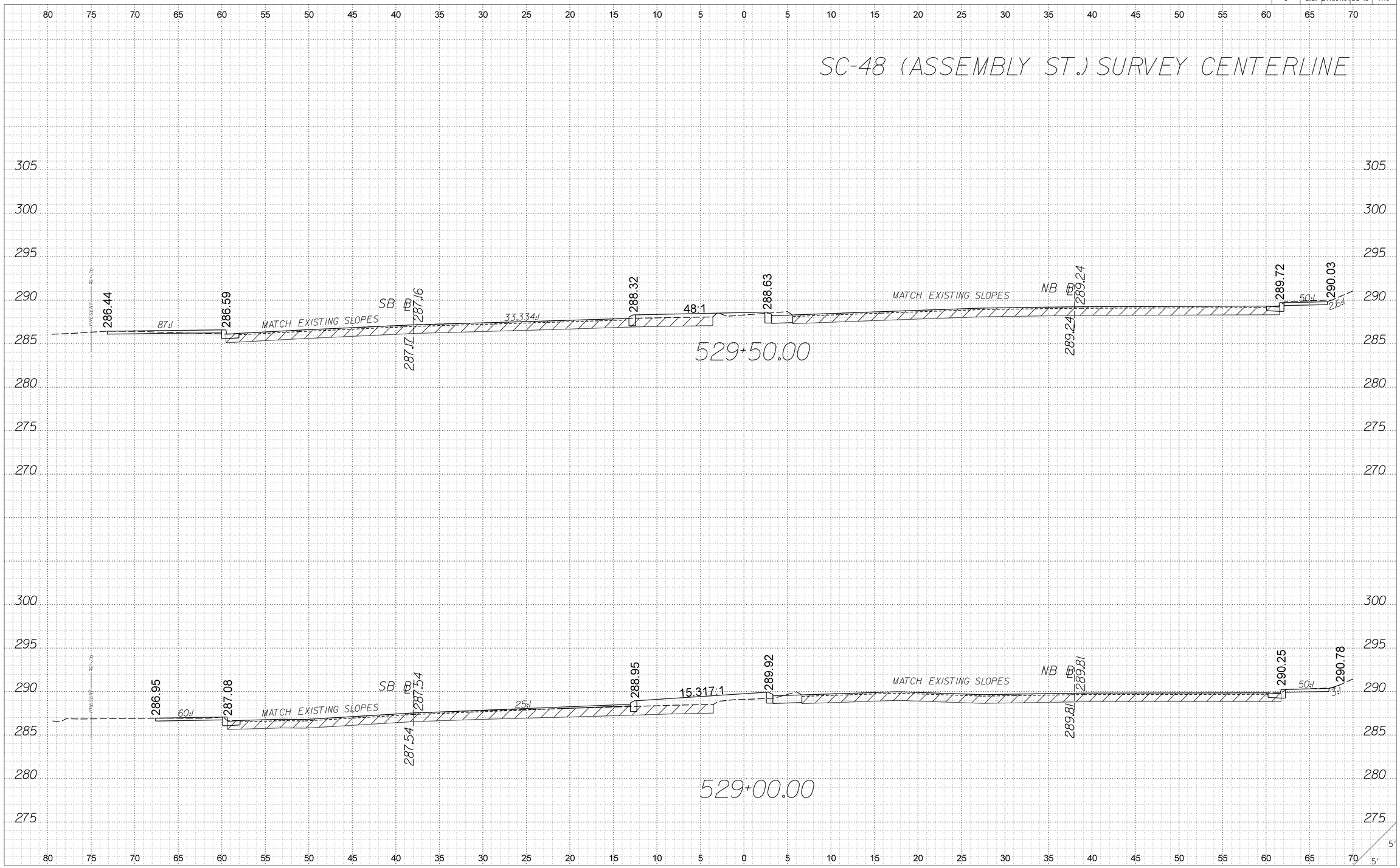

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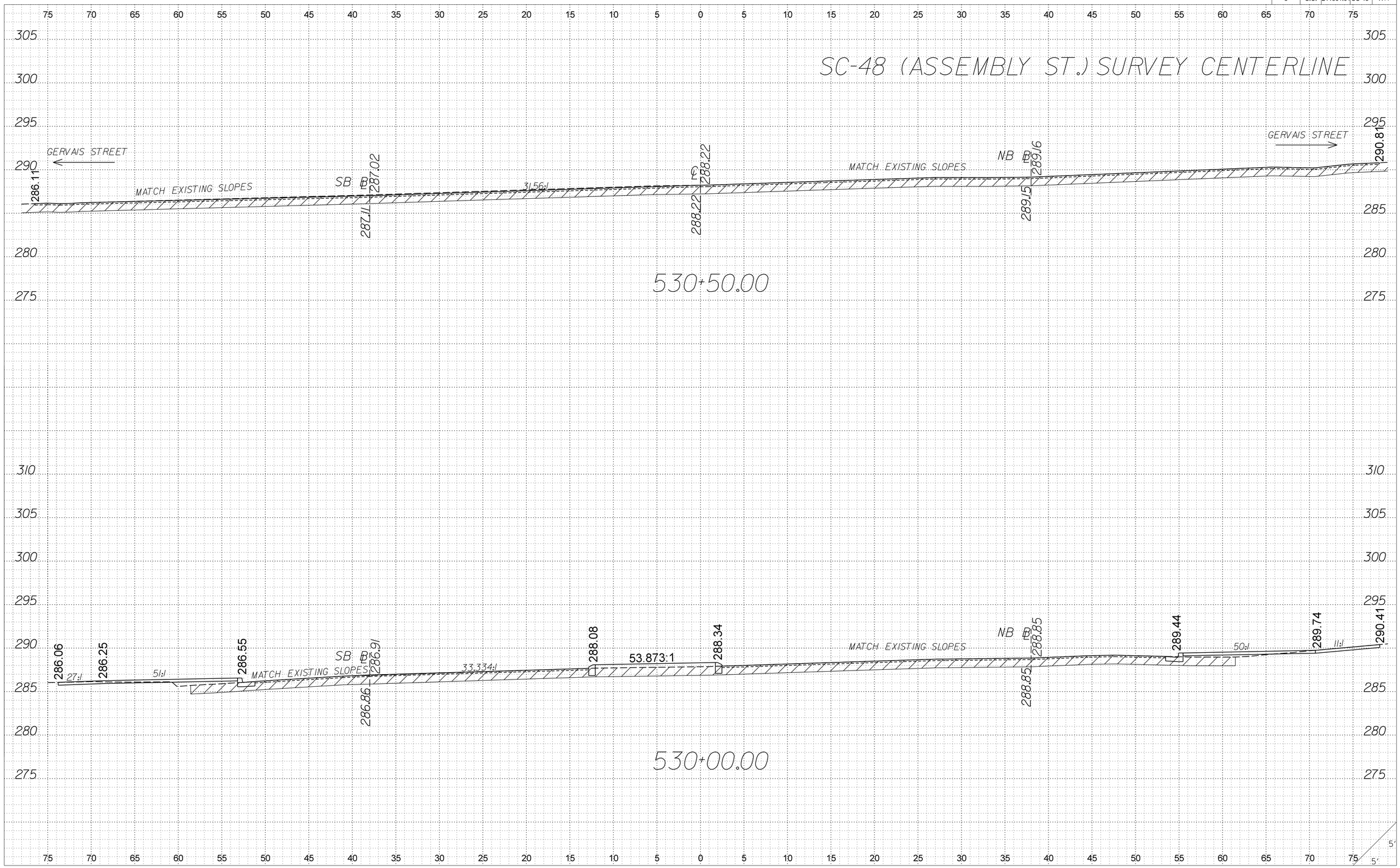

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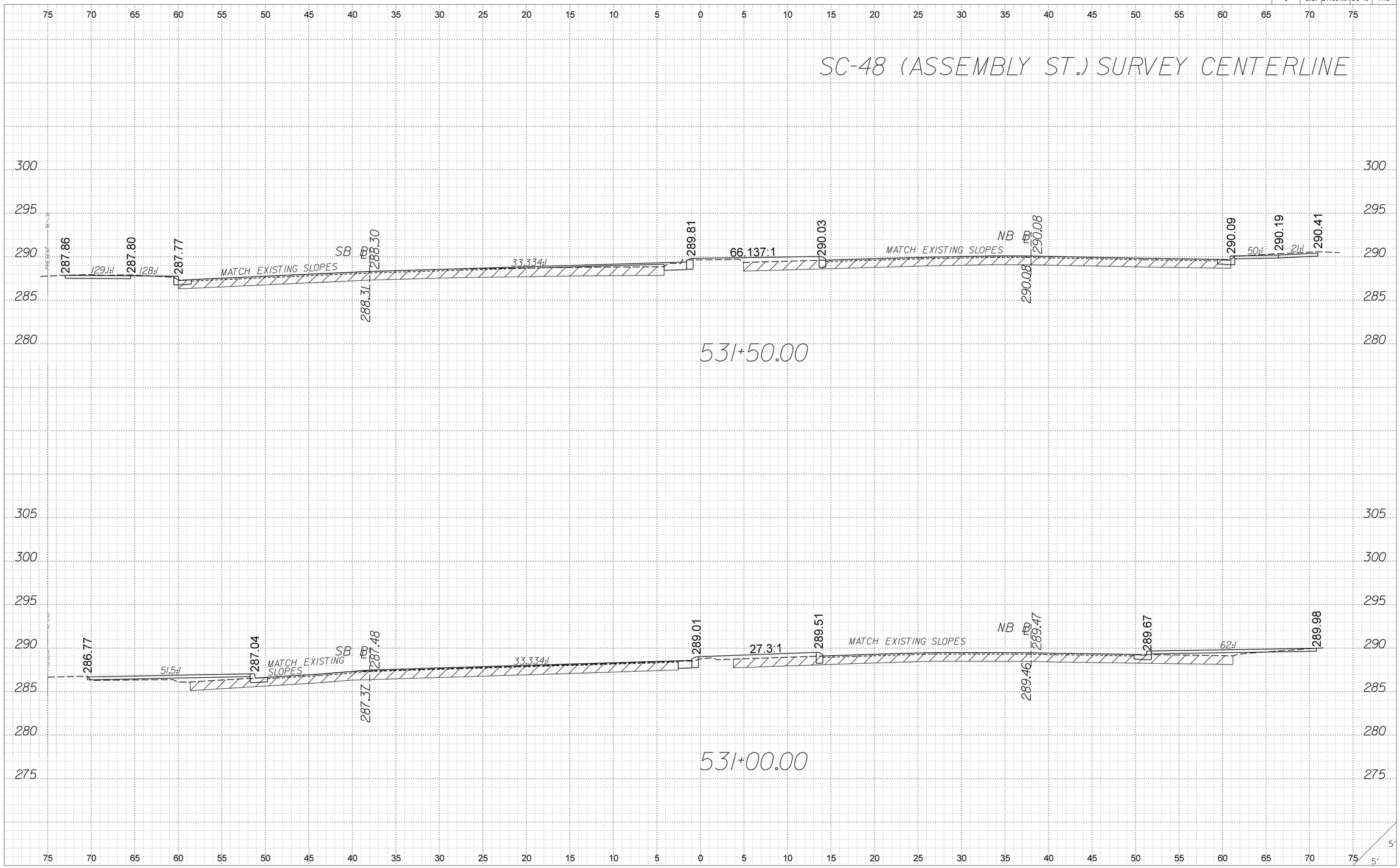

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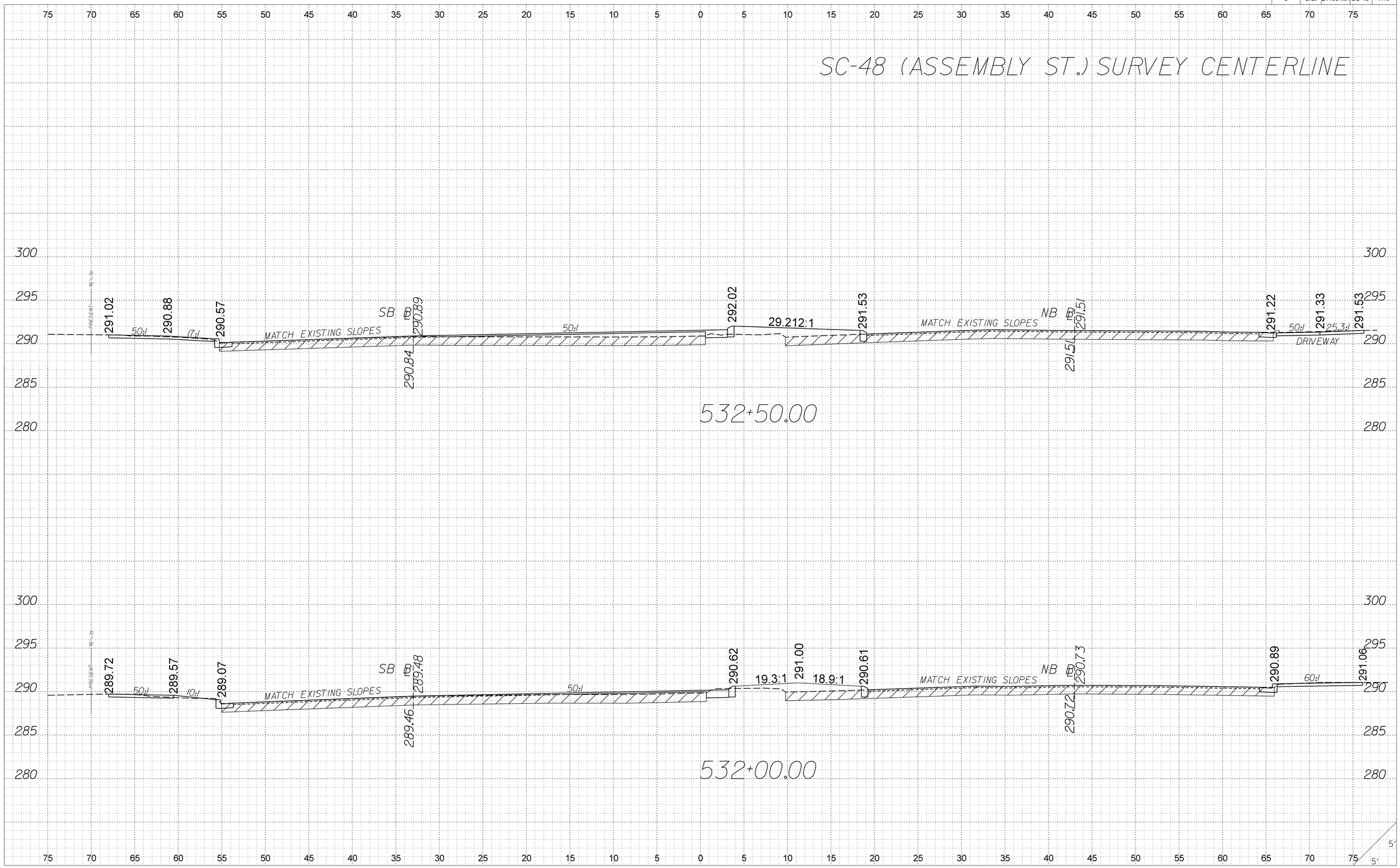

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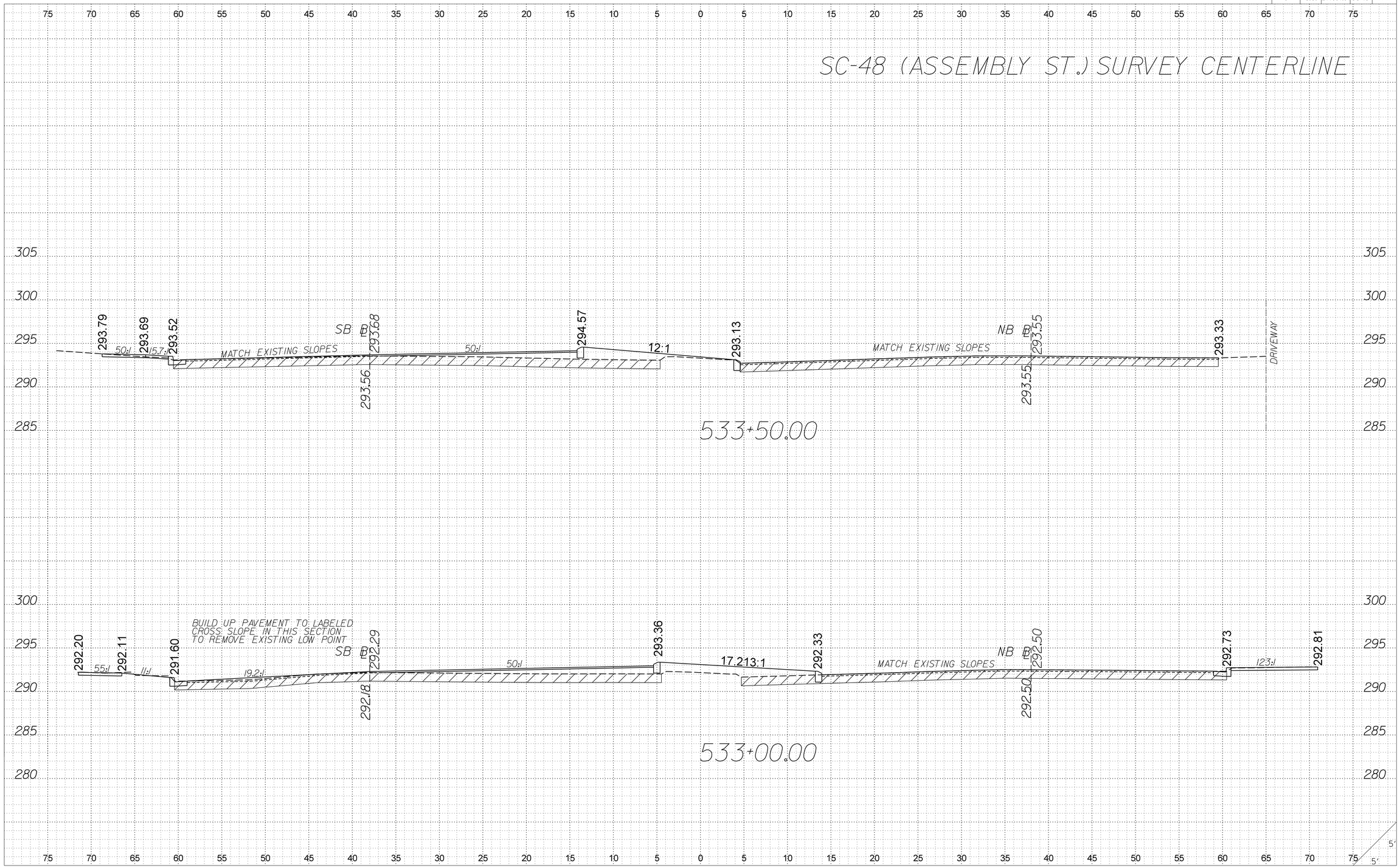

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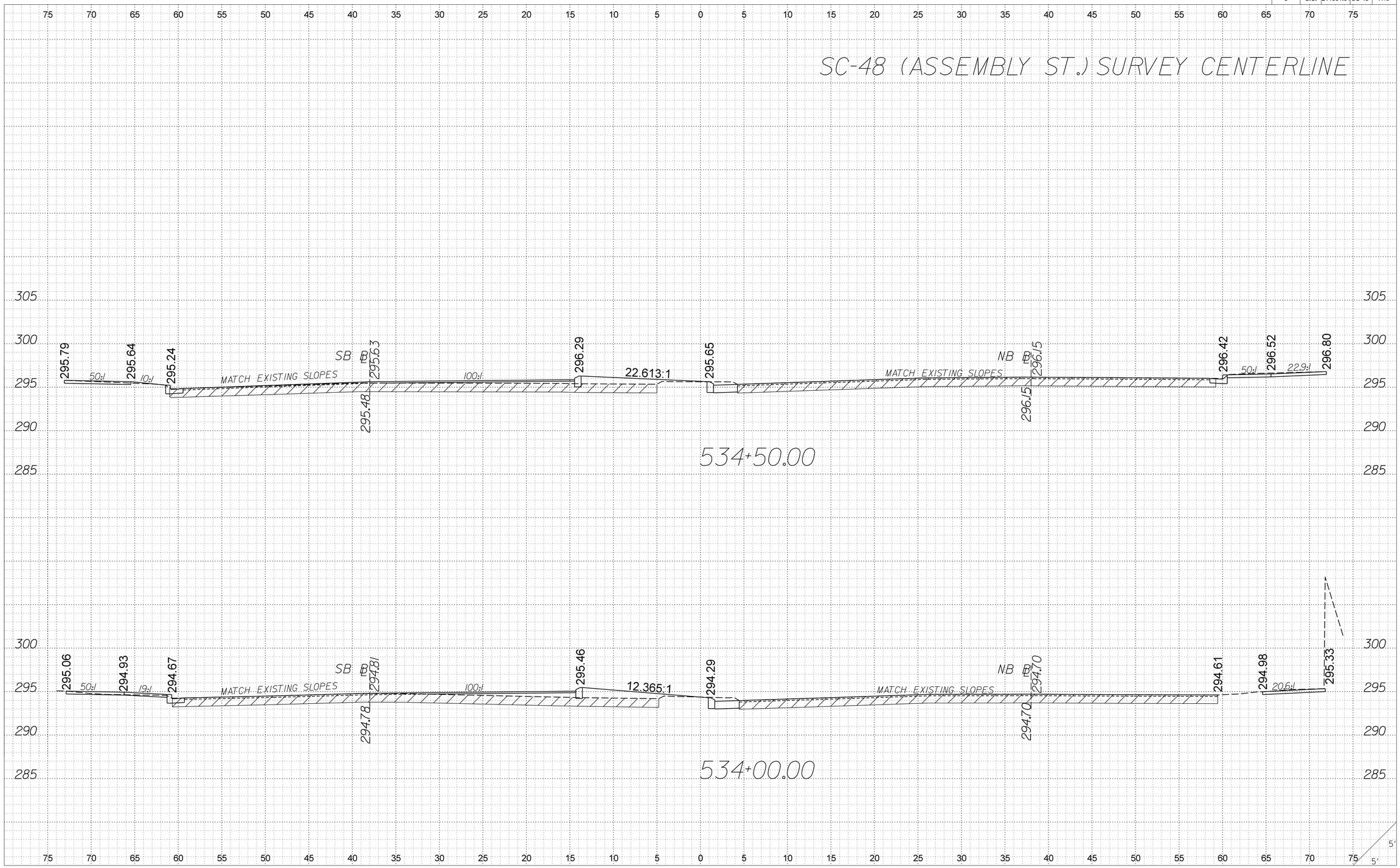

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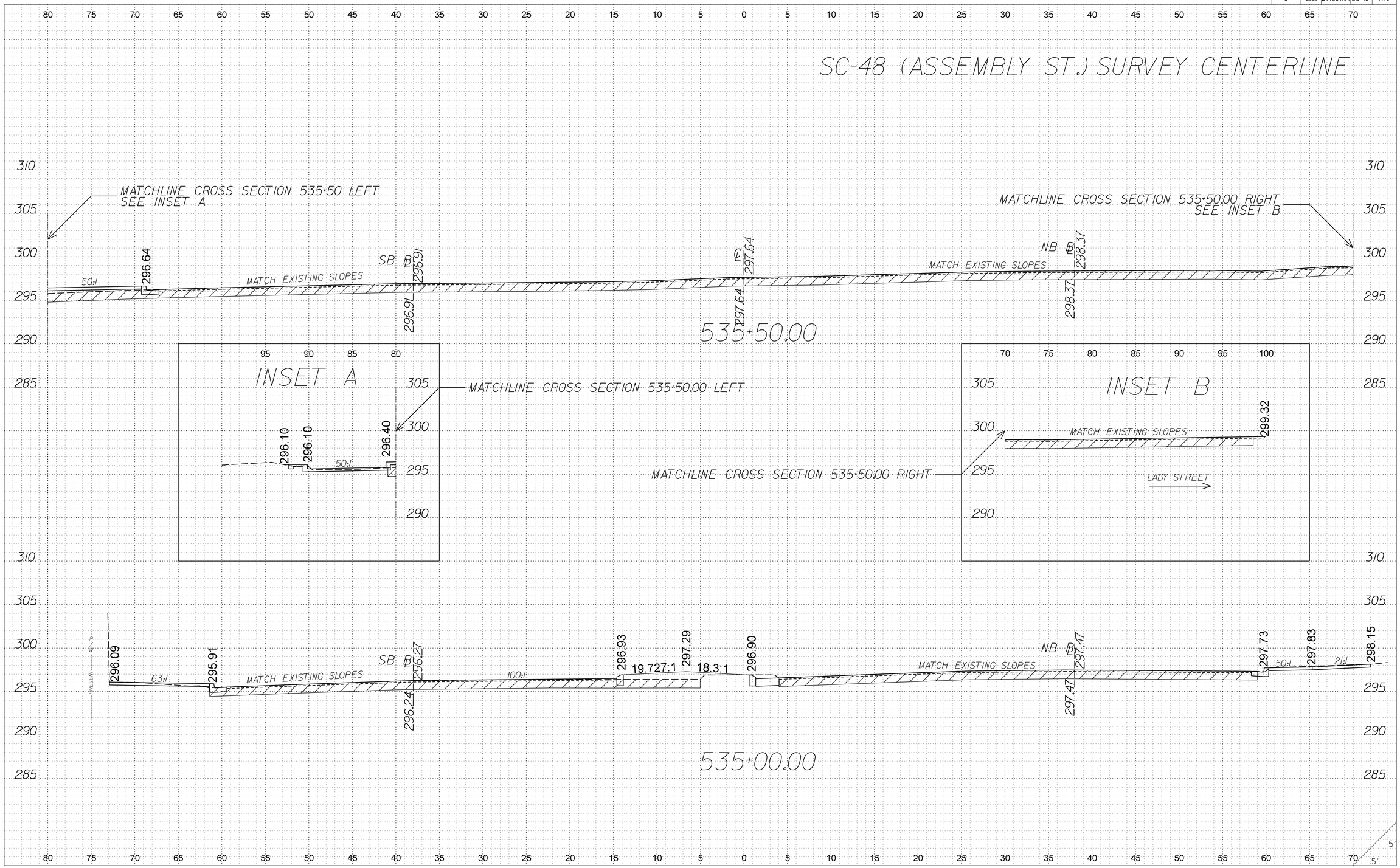

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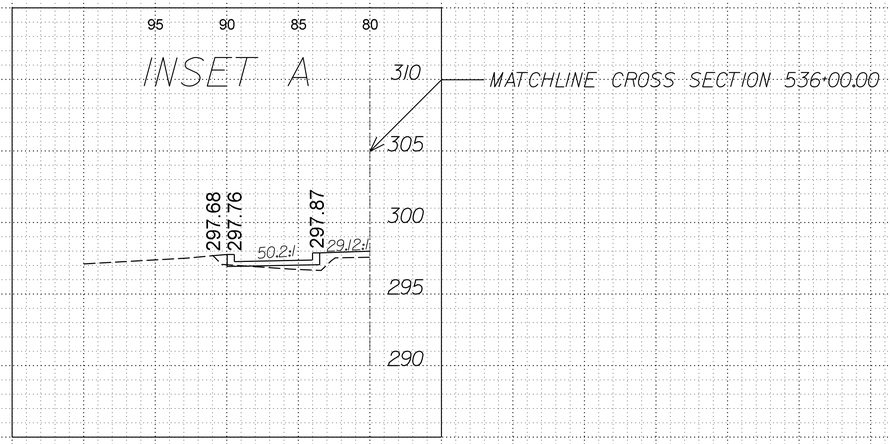
SC-48 (ASSEMBLY ST.) SURVEY CENTERLINE



SURVEY CENTERLINE SC-48 (ASSEMBLY STREET)
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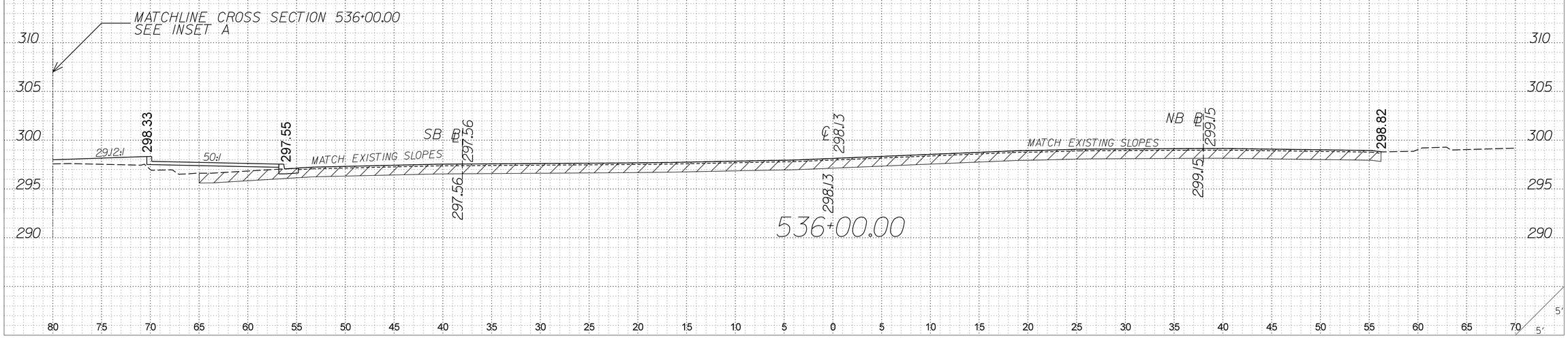

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