

Design

901 DESIGN, INCOPORATED 3720 Alumni Avenue, Memphis TN, 38111 Tel: (901) 978-9000 Email: 901design@memphis.edu Project

REST AREA ADJACENT TO PROPOSED 169

List of Drawings

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S.D.19 Perpendicular Curb Ramp

S.D.20 Smart Park Facilities

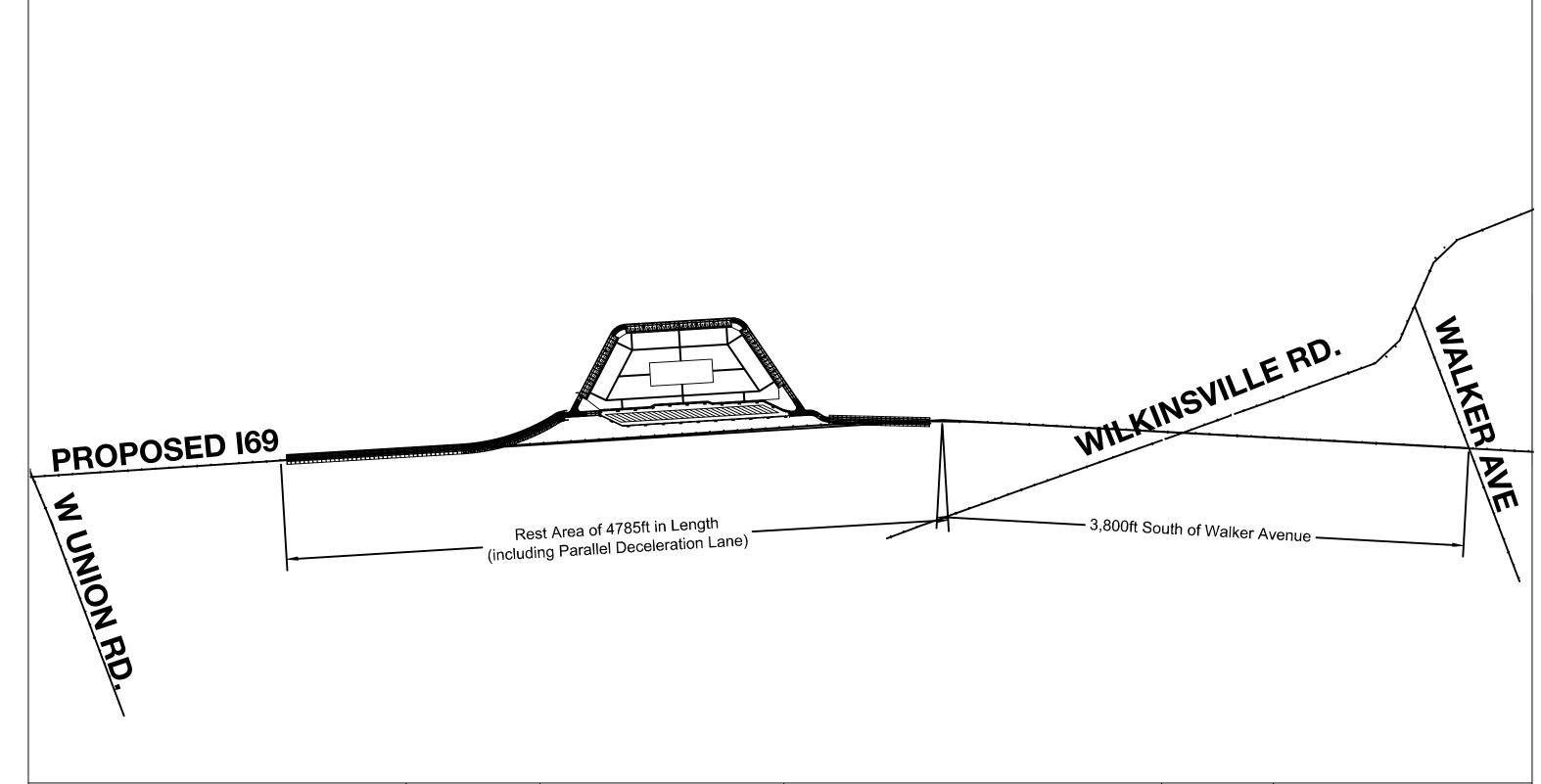
S.E.1 Drainage Plan View

S.E.2 Retention Detail

S.E.3 Ditch Detail

S.E.4 Pipe and Inlet Detail

S.E.5 Storm Water Connection



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901 DESIGN, INCOPORATED 3720 Alumni Avenue, Memphis TN, 38111 Tel: (901) 978-9000

Email: 901design@memphis.edu

General Director Huan Ngo

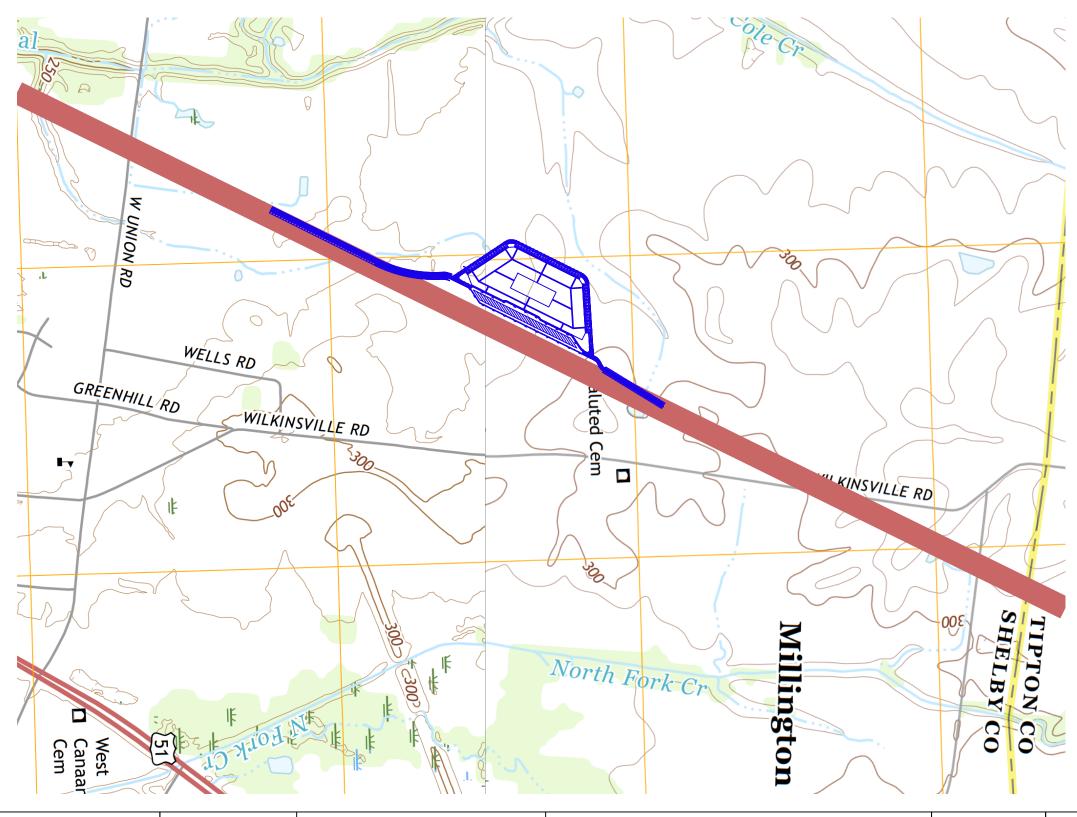
Lead Engineer	Huan Ngo	
Designed by	901 DESIGN	
Drawn by	Huan Ngo	
Checked by	901 DESIGN	'

Project
REST AREA ADJACENT
TO PROPOSED 169

Drawing Title

PROJECT L	LOCATION
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File Name	S.1. Project Location
Drawing No.	S.1
Paper Size	11" x 17"
Issued Date	11/28/2018





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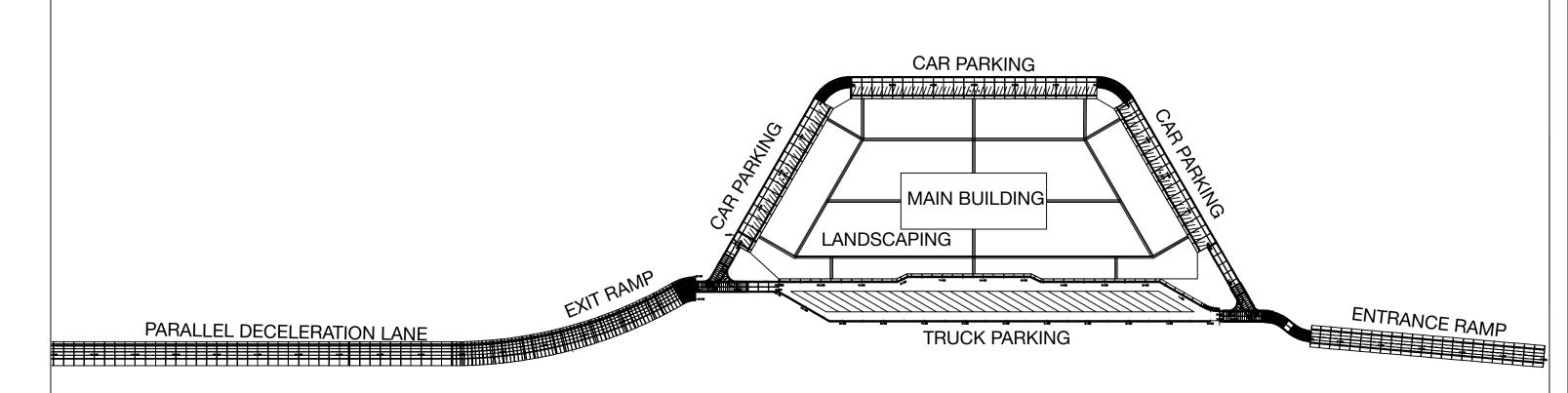
General Director Huan Ngo

Lead Engineer	Huan Ngo	
Designed by	901 DESIGN	
Drawn by	Huan Ngo	
Checked by	901 DESIGN	

Project **REST AREA ADJACENT TO PROPOSED 169**

Drawing Title INITIAL SITE TOPOGRAPHY

File Name	S.2 Initial Site Topography
Drawing No.	S.2
Paper Size	11" x 17"
Issued Date	11/28/2018



*NOTE: DETAIL DIMENSION AND ALIGNMENT ARE SHOWN IN THE S.D TRANSPORTATION SET OF DRAWINGS

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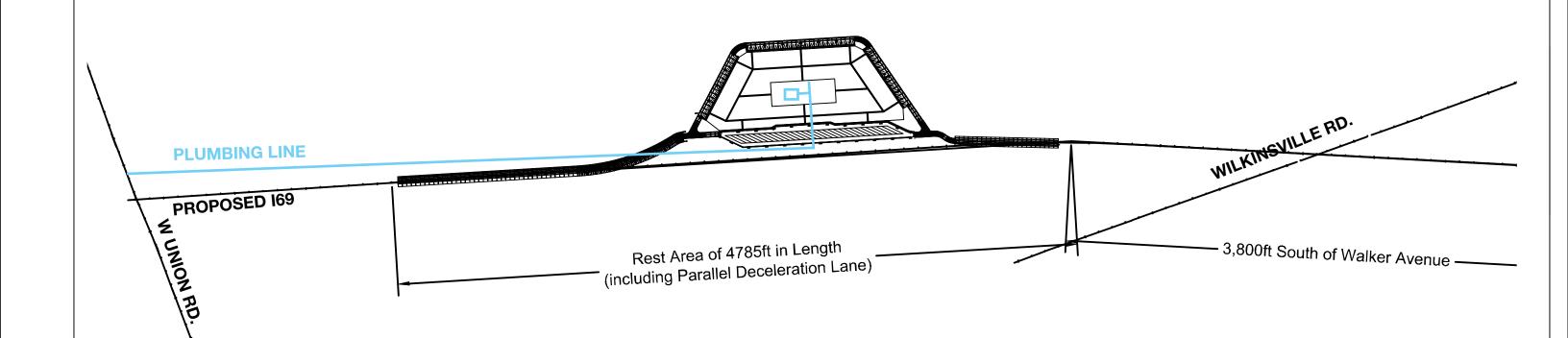
	Lead Engineer	Huan Ngo	Р
	Designed by	901 DESIGN	
I	Drawn by	Huan Ngo	Г
	Checked by	901 DESIGN	

Project **REST AREA ADJACENT TO PROPOSED 169**

Drawing Title

OVERALL LAY	OUT
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File Name	S.3 Overall Layout
Drawing No.	S.3
Paper Size	11" x 17"
Issued Date	11/28/2018



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General Director Huan Ngo

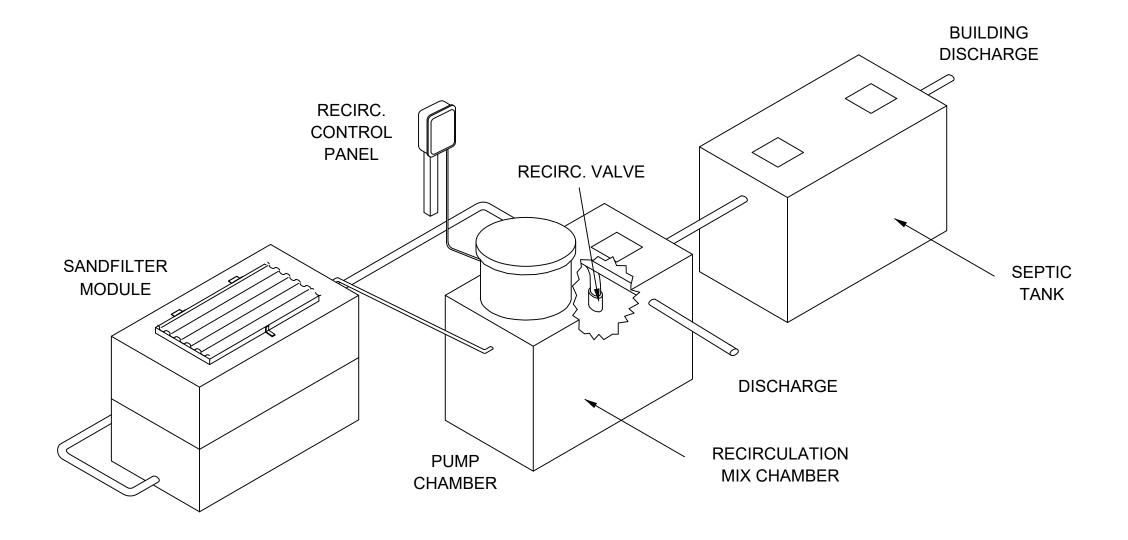
Lead Engineer	Huan Ngo	
Designed by	901 DESIGN	
Drawn by	Huan Ngo	
Checked by	901 DESIGN	

Project	
REST AREA ADJACENT	-
TO PROPOSED 169	

Drawing Title

PLUMBING PLAN

File Name	S.A.1 Plumbing Plan
Drawing No.	S.A.1
Paper Size	11" x 17"
Issued Date	11/28/2018



RECIRCULATING SAND FILTER SYSTEM

SCOPE: HOUSEHOLD SEWAGE WILL FLOW BY GRAVITY THROUGH A TREATMENT UNIT, TYPICALLY A SEPTIC TANK, TO THE SANDFILTER FEED TANK. FROM THE SANDFILTER FEED TANK THE EFFLUENT IS PUMPED TO THE SANDFILTER WHERE, AFTER TREATMENT, IT FLOWS BY GRAVITY TO A RECIRC VALVE WHERE ALL OF THE EFFLUENT WILL BE SENT BACK TO THE RECIRCULATION TANK AND THE OVERFLOW TO DISPOSAL. IF SURFACE DISCHARGE, CHLORINATE THE EFFLUENT AND FLOW BY GRAVITY THROUGH A SERIES OF CHLORINE CONTACT CHAMBERS. THE FINAL CONTACT CHAMBER WILL ALSO ACT AS A SAMPLE MODULE. FROM THE CONTACT CHAMBERS THE EFFLUENT WILL FLOW BY GRAVITY TO A DISCHARGE POINT.

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Lead Engineer	Huan Ngo
Designed by	Mark Rippy
Drawn by	Mark Rippy
Checked by	Huan Ngo

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Drawing Title

RSF SYSTEM

			Į.
File Name	S.A.2 RSF SYSTEM		
Drawing No.	S.A.2		
Paper Size	11" x 17"	Issued Date	11/28/18

TWO SAND FILTER MODULES NOT TO SCALE

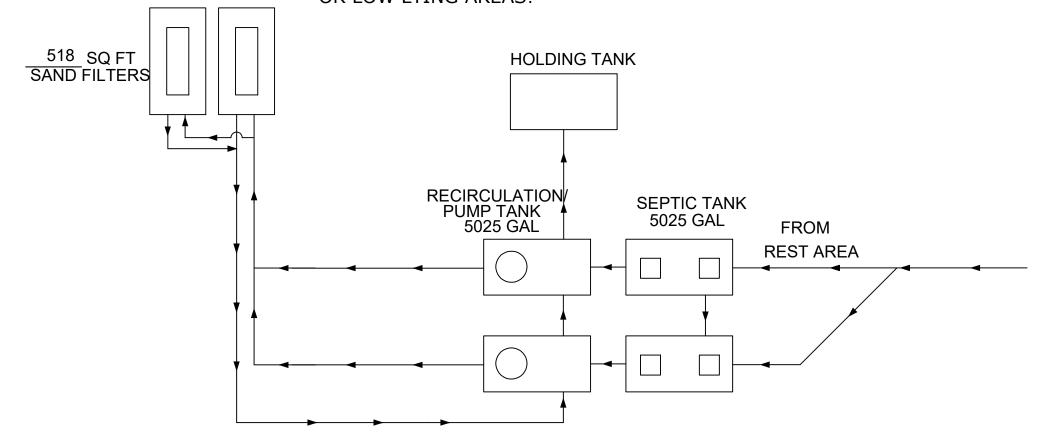
TANK information:

2-5025 GALLON SEPTIC TANKS, 2-5025 GALLON

SANDFILTER DOSE TANKS, 2-518 SQ. FT.

SANDFILTER TANK. INSTALL TANKS TO AVOID SWALES

OR LOW LYING AREAS!



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Drawn by	Mark Rippy
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Drawing Title

OVERALL LAYOUT

	File Name	S.A.3 Overall Layout			
	Drawing No.	S.A.3			
	Paper Size	11" x 17"	Issued Date	11/28/18	



901 DESIGN, INCOPORATED
3720 Alumni Avenue,
Memphis TN, 38111
Tel: (901) 978-9000
Email: 901design@memphis.edu

Lead Engineer	Steve Thusius
Designed by	Steve Thusius
Drawn by	Steve Thusius
Checked by	Mark Rippy

Project

Drawing Title	FRONT VIEW		
File Name	S.B.1 Front View		
Drawing No.	S.B.1		
Paper Size	11' x 17"	Issued Date	11/28/18

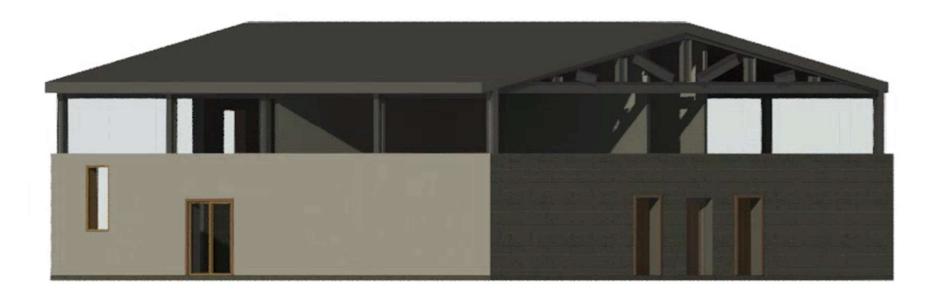


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Memphis TN, 38111
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Email: 901design@memphis.edu

Lead Engineer	Steve Thusius
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Checked by	Mark Rippy

Project

Drawing Title	SIDE VIEW		
File Name	S.B.2 Side View		
Drawing No.	S.B.2		
Paper Size	11' x 17"	Issued Date	11/28/18

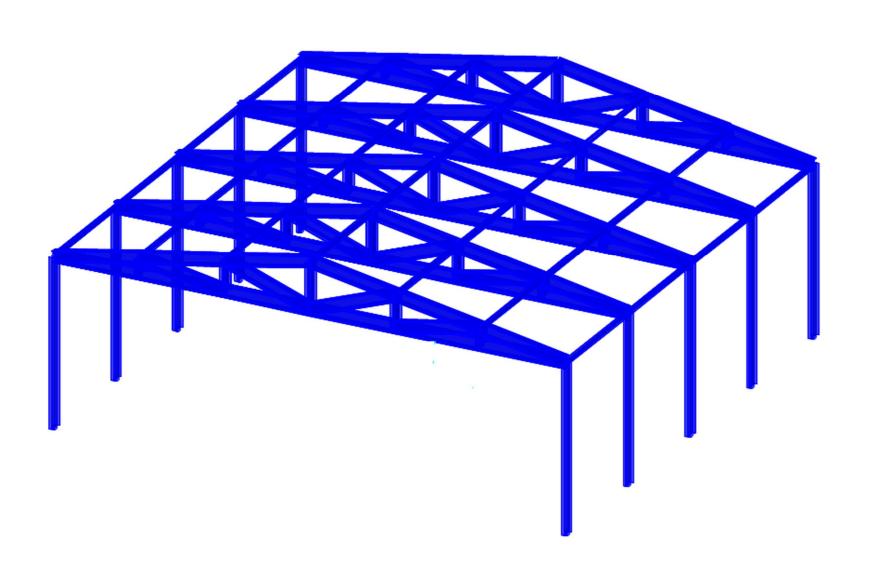


901 DESIGN, INCOPORATED
3720 Alumni Avenue,
Memphis TN, 38111
Tel: (901) 978-9000
Email: 901design@memphis.edu

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Checked by	Mark Rippy

Project

Drawing Title	S.B.3 Back View S.B.3		
File Name			
Drawing No.			
Paper Size	11' x 17"	Issued Date	11/28/18

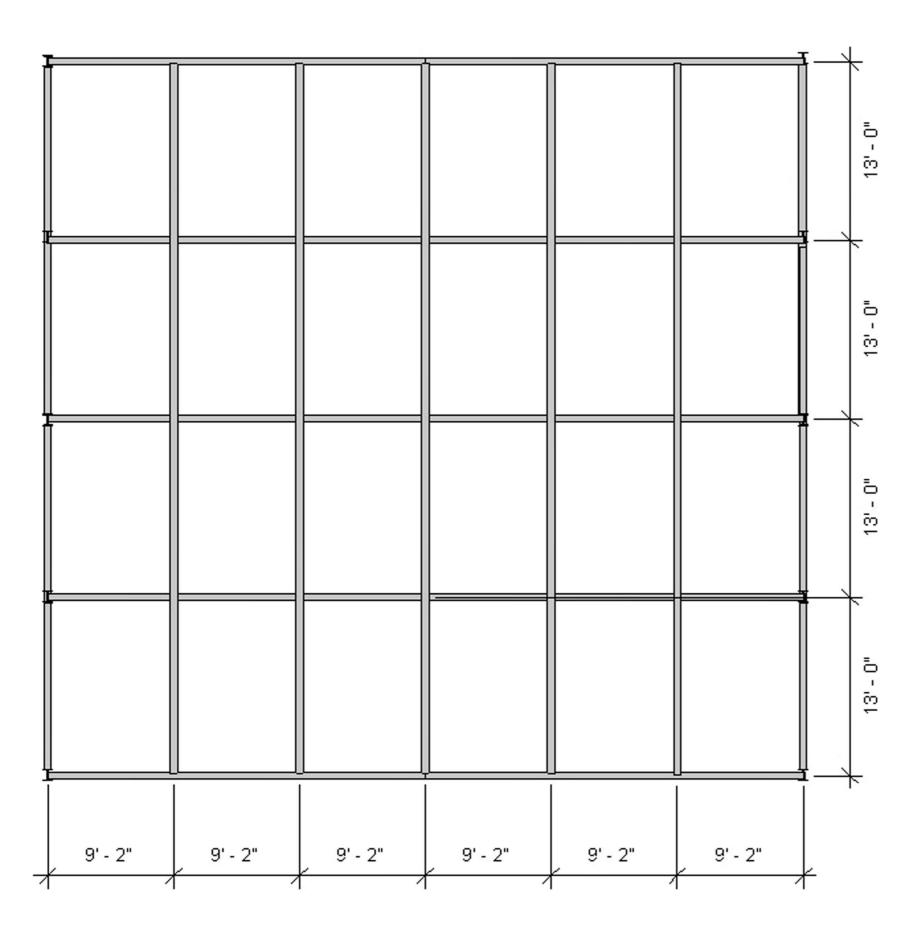


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Email: 901design@memphis.edu

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Drawn by	Steve Thusius
Checked by	Mark Rippy

Project

Drawing Title	COMPLETE FRAME S.B.4 Complete Frame		
File Name			
Drawing No.	S.B.4		
Paper Size	11' x 17"	Issued Date	11/28/18



Front of Building

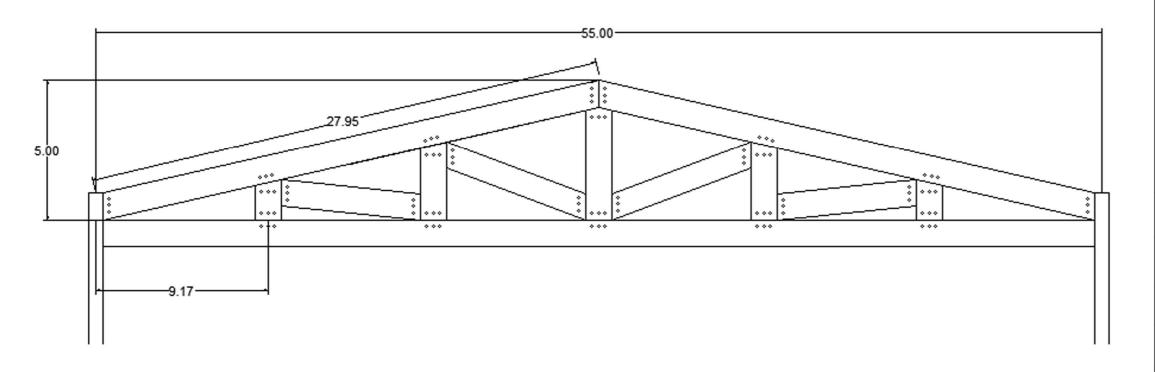
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Memphis TN, 38111
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Email: 901design@memphis.edu

Lead Engineer	Steve Thusius
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Drawn by	Steve Thusius
Checked by	Mark Rippy

Project

Drawing Title	ROOF S	SYSTEM	
File Name	S.B.5 Ro	oof System	ſ
Drawing No.	S.B.5		
Paper Size	11' x 17"	Issued Date	11/28/18

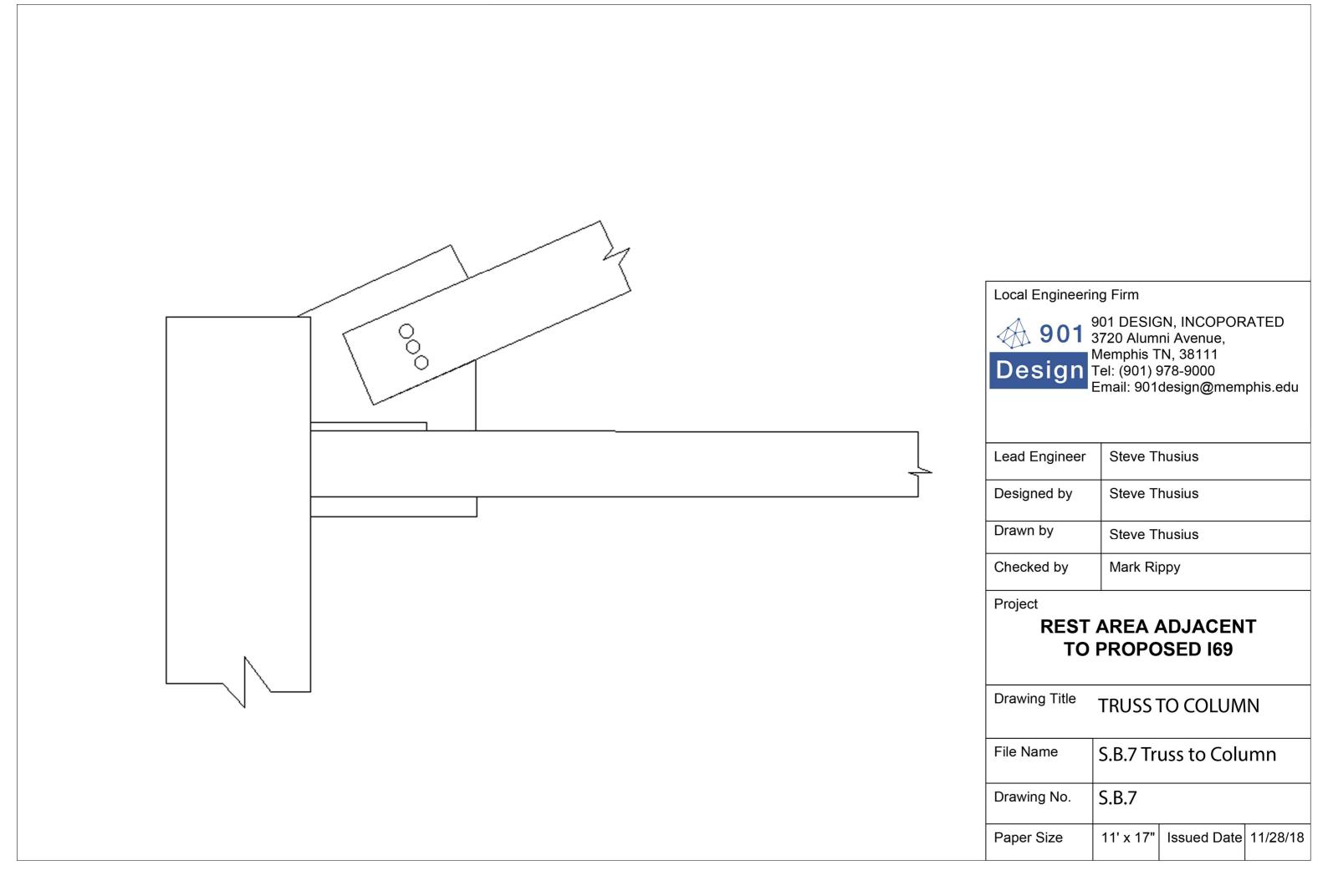


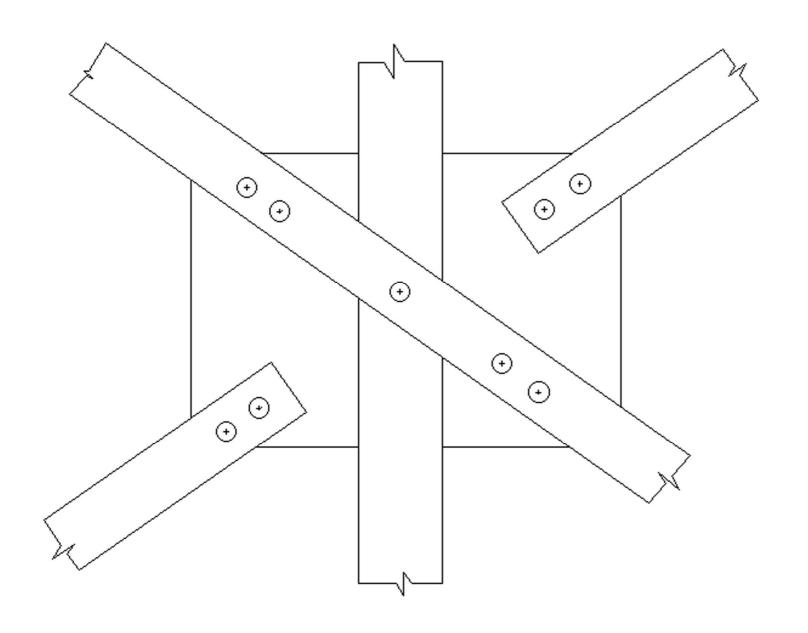
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3720 Alumni Avenue,
Memphis TN, 38111
Tel: (901) 978-9000
Email: 901design@memphis.edu

Lead Engineer	Steve Thusius
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Drawn by	Steve Thusius
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Project

Drawing Title	TRUSS		
File Name	S.B.6 Tr	uss	
Drawing No.	S.B.6		
Paper Size	11' x 17"	Issued Date	11/28/18



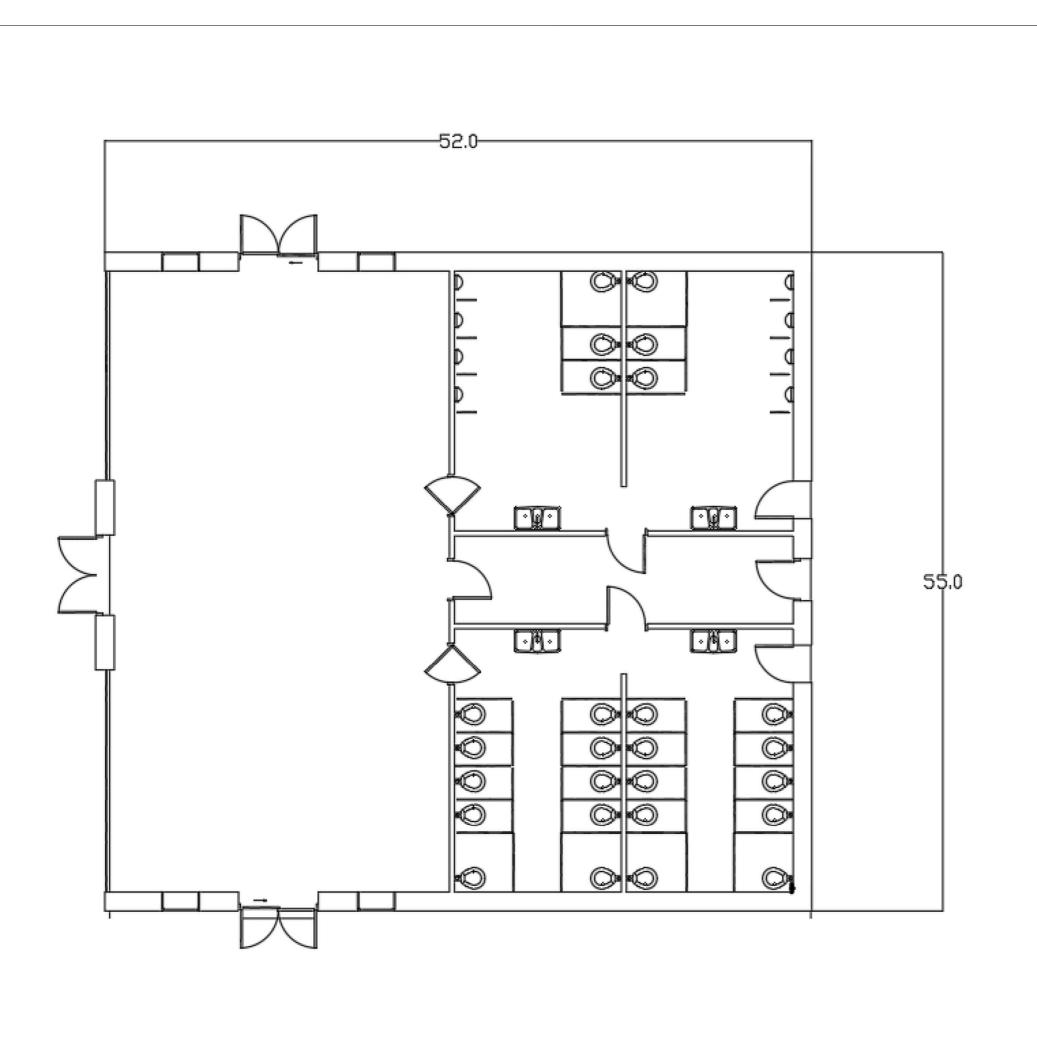


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3720 Alumni Avenue,
Memphis TN, 38111
Tel: (901) 978-9000
Email: 901design@memphis.edu

Lead Engineer	Steve Thusius
Designed by	Steve Thusius
Drawn by	Steve Thusius
Checked by	Mark Rippy

Project

Drawing Title	ROOF CONNECTIONS		
File Name	S.B.8 Ro	oof Connec	ctions
Drawing No.	S.B.8		
Paper Size	11' x 17"	Issued Date	11/28/18

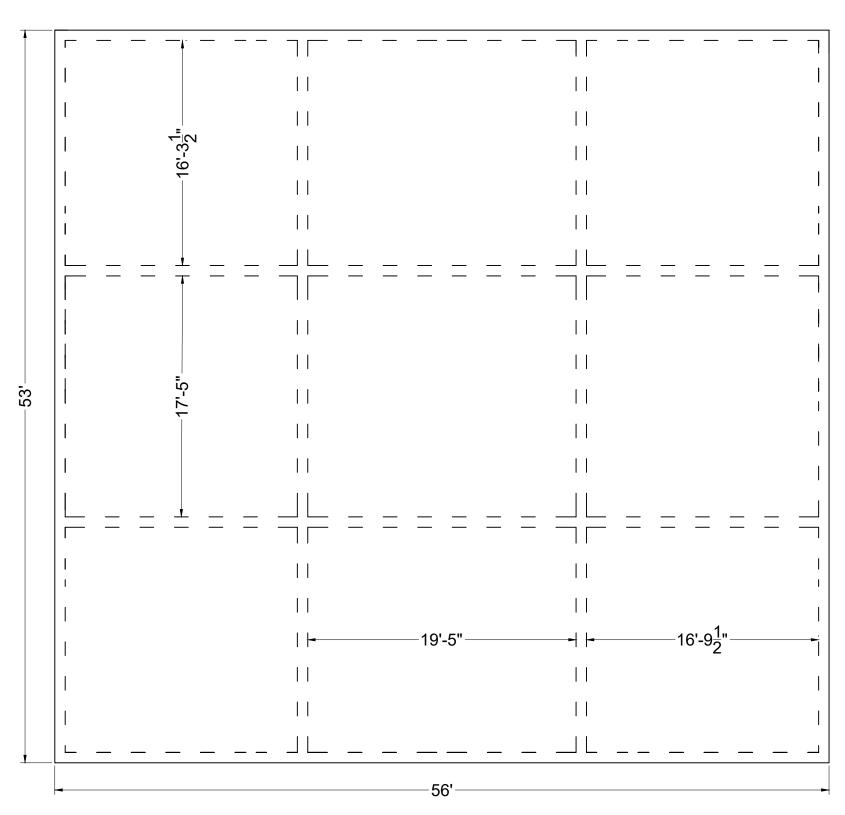


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3720 Alumni Avenue,
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Tel: (901) 978-9000
Email: 901design@memphis.edu

Lead Engineer	Steve Thusius
Designed by	Steve Thusius
Drawn by	Steve Thusius
Checked by	Mark Rippy

Project

Drawing Title	Floorplan
File Name	S.B.9 Floorplan
Drawing No.	S.B.9
Paper Size	11' x 17" Issued Date 11/28/18



Foundation Plan View



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General Director Huan Ngo

Lead Engineer	Huan Ngo
Designed by	Kendall Brown
Drawn by	Kendall Brown
Checked by	Mark Rippy

Project

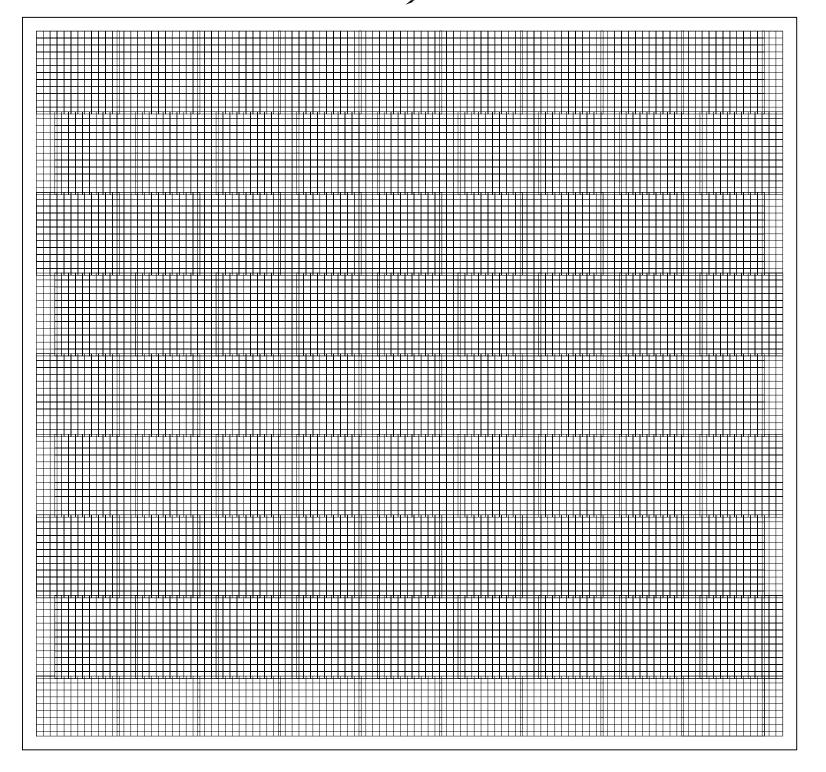
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Drawing Title

FOUNDATION PLAN VIEW

File Name	S.C.1 Foundation Plan View		
Drawing No.	S.C.1		
Paper Size	11" x 17"	Issued Date	11/28/18

6'x6' W5 Welded Wire Rienforcing



Welded Wire Reinforcement Details

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Drawn by	Kendall Brown
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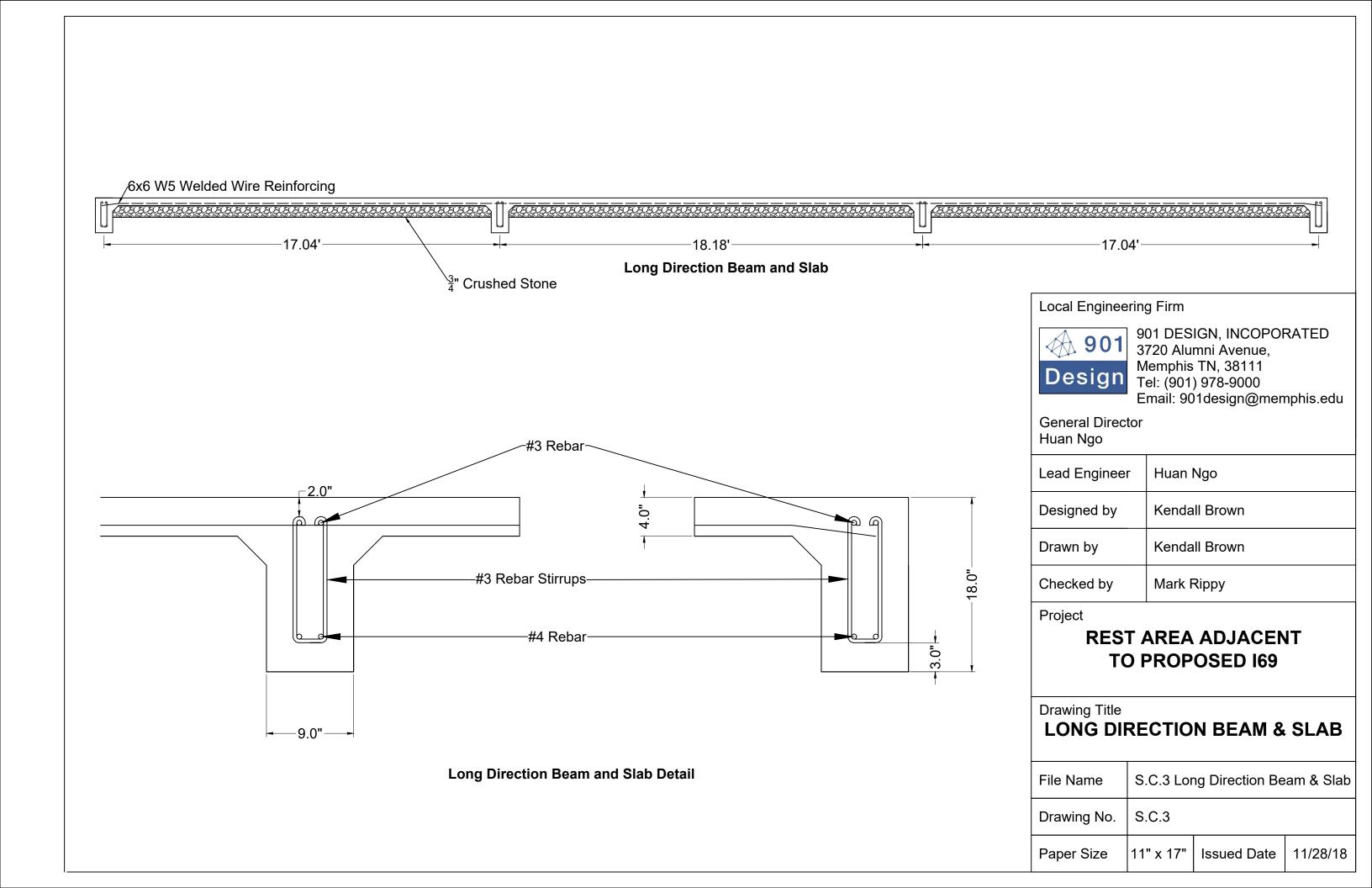
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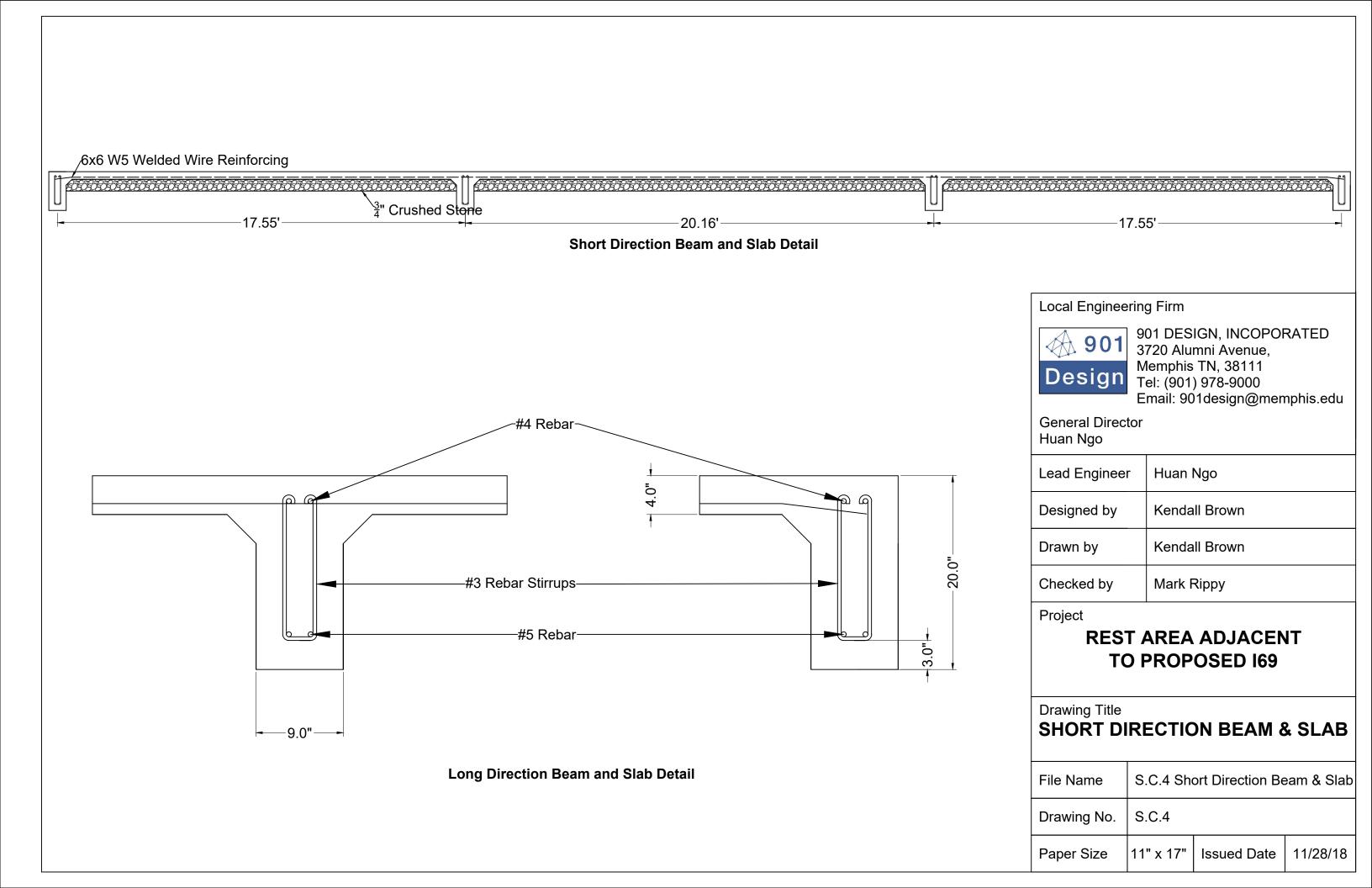
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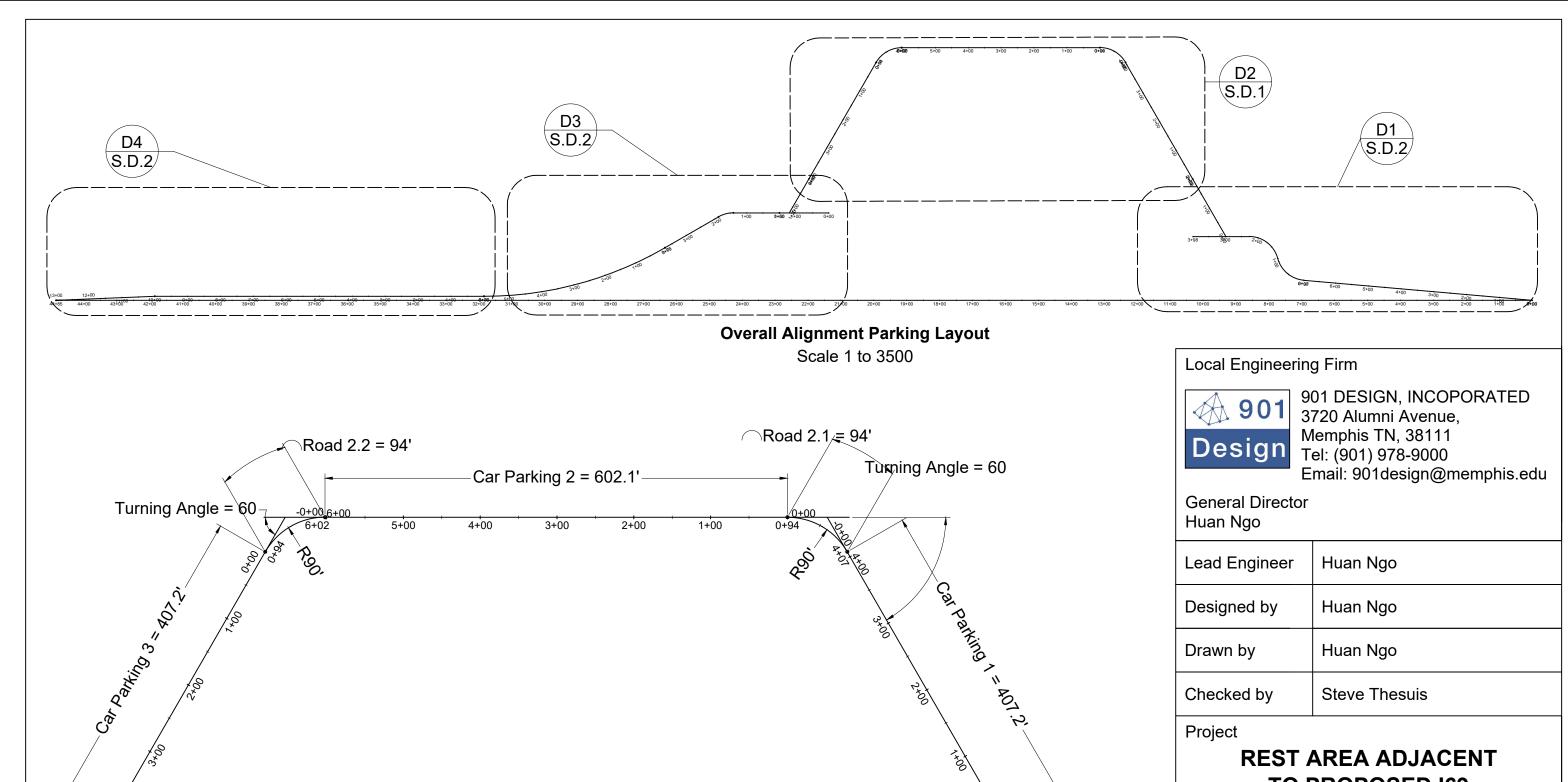
Drawing Title

WELDED WIRE REINFORCEMENT

File Name	S.C.2 Welded Wire Reinforcement		
Drawing No.	S.C.2		
Paper Size	11" x 17"	Issued Date	11/28/18







Detail D2: Car Parking Area Scale 1 to 1500

-Deceleration Lane/Exit Ramp 3 = 1600ft

Detail D4: Exit Ramp 3 Scale 1 to 1500

12+00

42+00

44+00

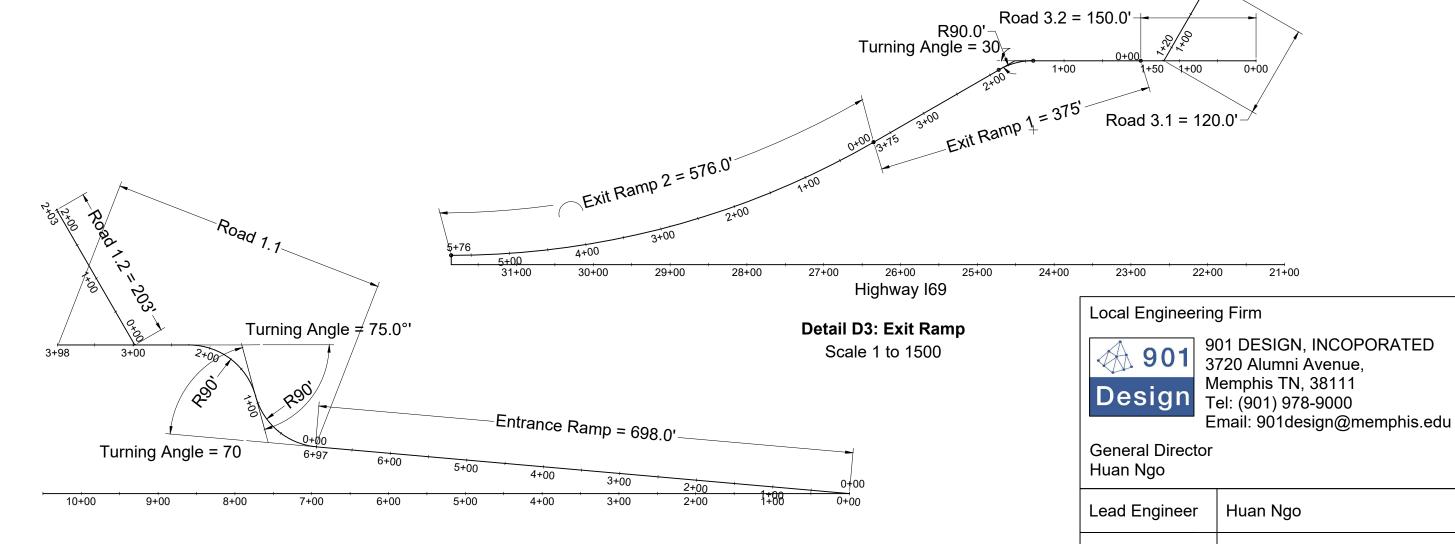
16+00

TO PROPOSED 169

Drawing Title

ROAD ALIGNMENT 1

File Name	S.D.1 Road Alignment 1			
Drawing No.	S.D.1			
Paper Size	11" x 17" Issued Date 11/28/18			



Detail D1: Entrance Ramp

Scale 1 to 1500

List of Sheets			
Elements	Overall Layout	Detailing	
Entrance Ramp	S.D.3	S.D.4	
Exit Ramp 1	S.D.5	S.D.6	
Exit Ramp 2	S.D.7	S.D.8	
Exit Ramp 3	S.D.9	S.D.10	
Car Parking	S.D.11	S.D.14, S.D.19	
Truck Parking	S.D.12	S.D.14	
Inner Roadway	S.D.13	S.D.14	
Road Signage	S.D.16; S.D.17	S.D.18	

Lead Engineer	Huan Ngo
Designed by	Huan Ngo
Drawn by	Huan Ngo
Checked by	Steve Thesuis

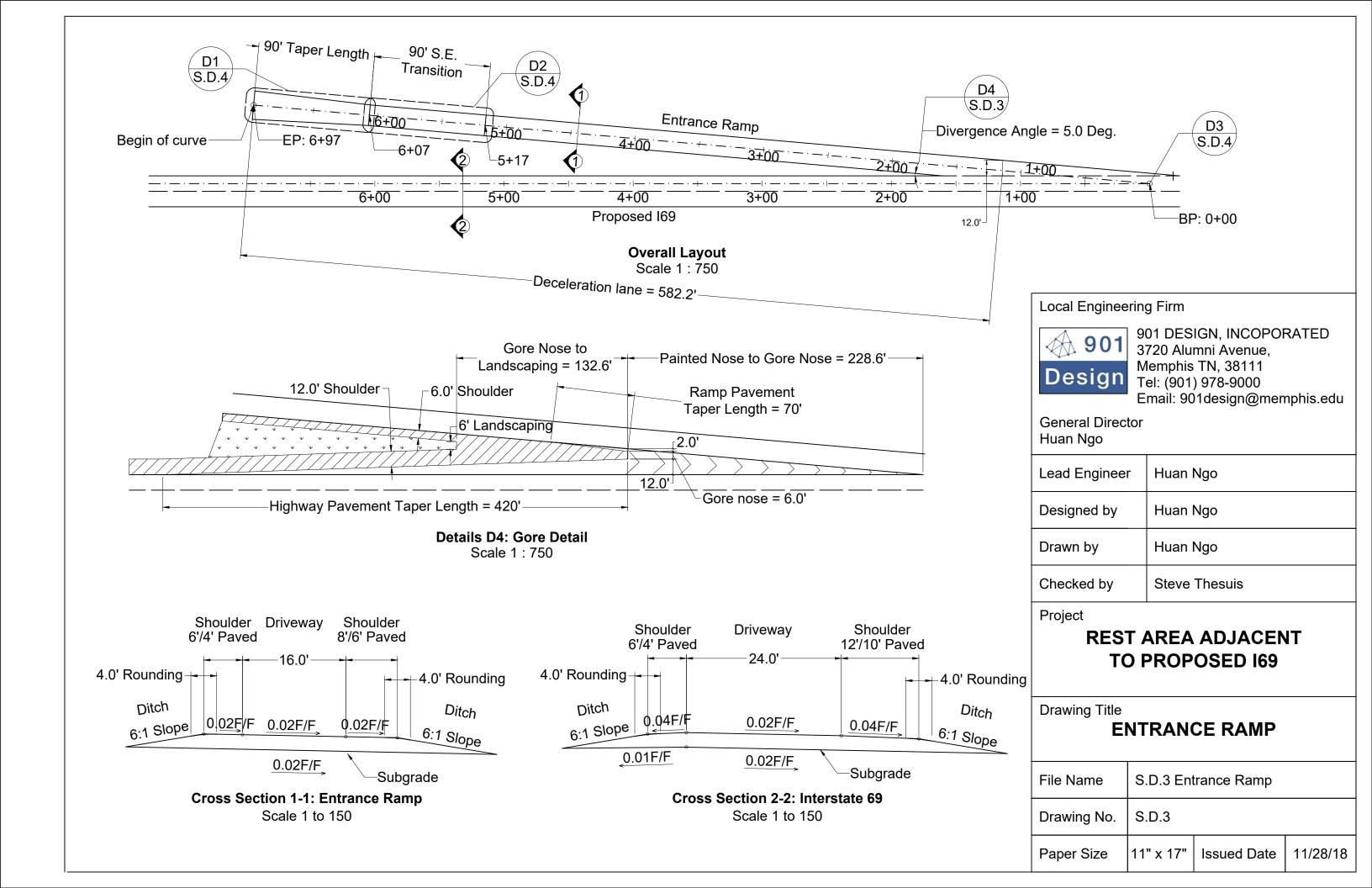
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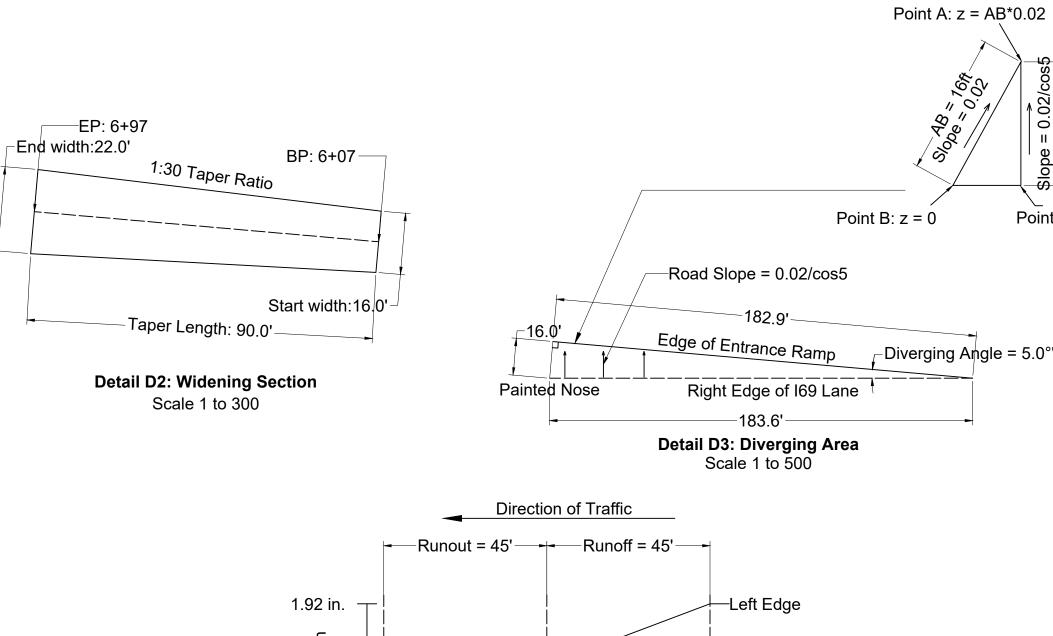
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Drawing Title

ROAD ALIGNMENT 2

File Name	S.D.2 Road Alignment 2		
Drawing No.	S.D.2		
Paper Size	11" x 17"	Issued Date	11/28/18





Elevation -Center Line -1.92in. -Right Edge EP: 6+07 5+62 BP: 5+17 Station **Profile Control** 2% Profile Con
Centerline

Detail D1: Superelevation Profile Scale 1 to 300

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Slope = $0.02/\cos$

AC = AB*cos5

Point C: z = 0

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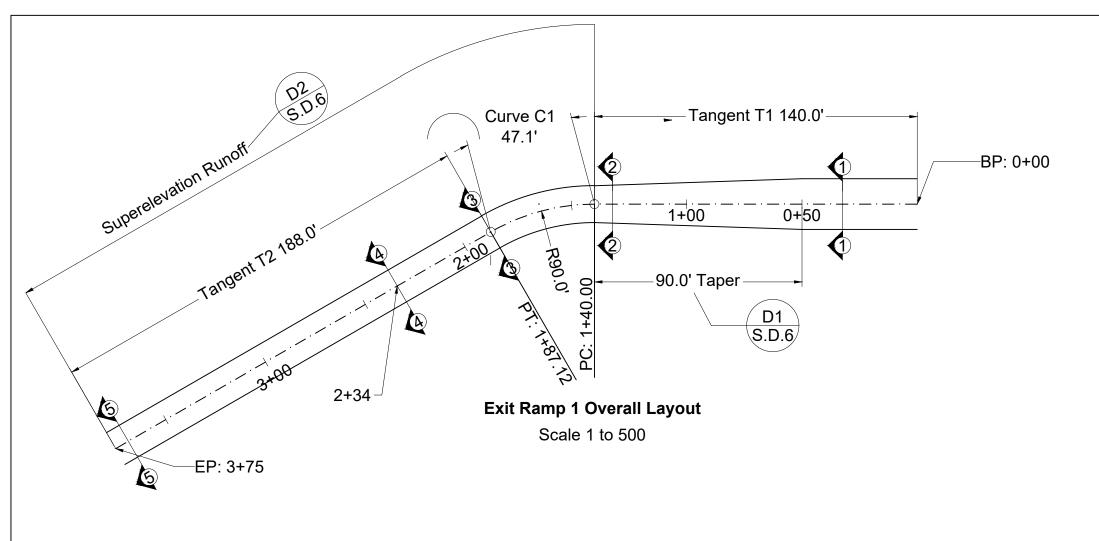
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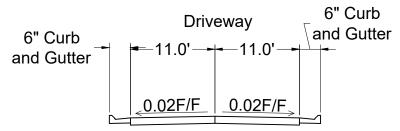
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Drawing Title

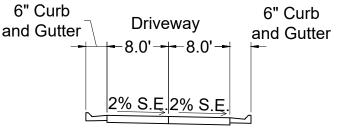
ENTRANCE RAMP DETAILS

File Name	S.D.4 Entrance Ramp Details			
Drawing No.	S.D.4			
Paper Size	11" x 17" Issued Date 11/28/1			

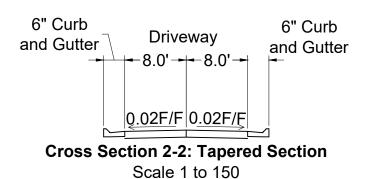


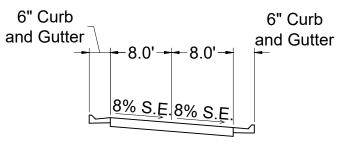


Cross Section 1-1: Inner Road Scale 1 to 150

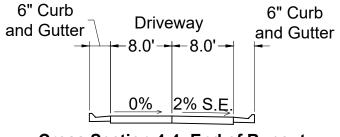


Cross Section 3-3: Superelevated Section
Scale 1 to 150





Cross Section 5-5: Superelevated to P.C. Scale 1 to 150



Cross Section 4-4: End of Runout Scale 1 to 150

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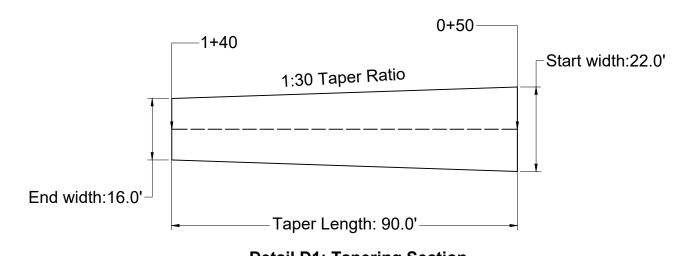
Project

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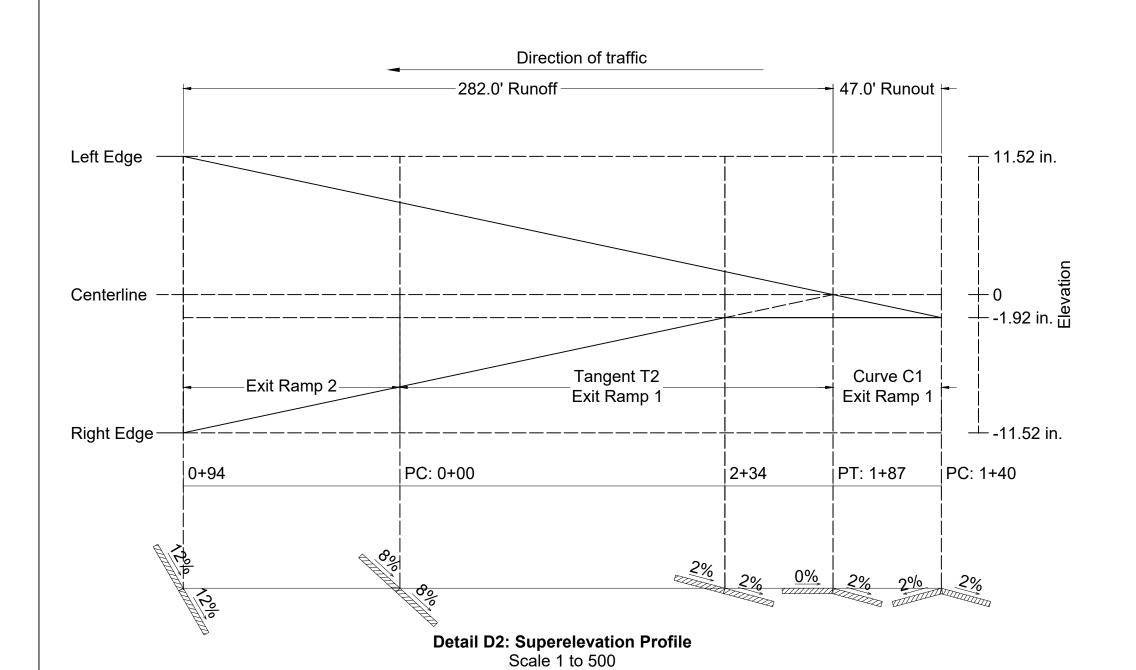
Drawing Title

EXIT RAMP 1

File Name	S.D.5 Exit Ramp 1		
Drawing No.	S.D.5		
Paper Size	11" x 17"	Issued Date	11/28/18



Detail D1: Tapering SectionScale 1 to 300



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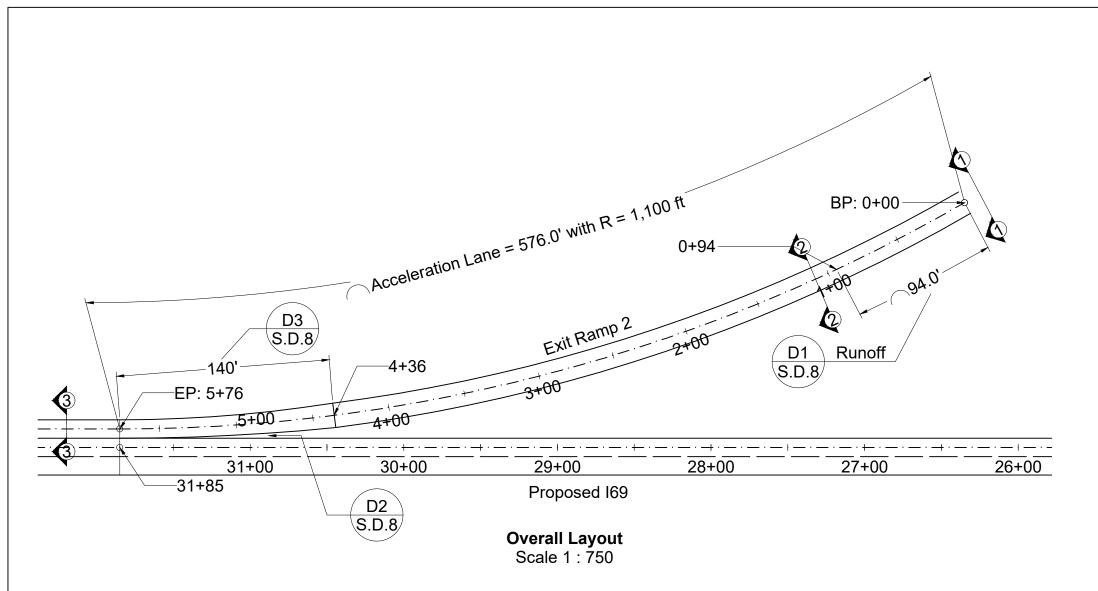
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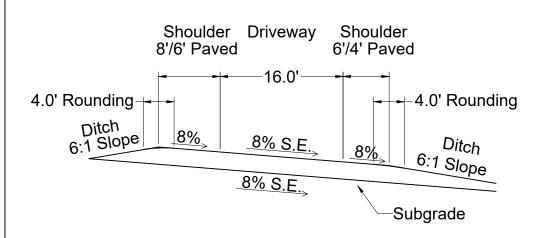
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Drawing Title

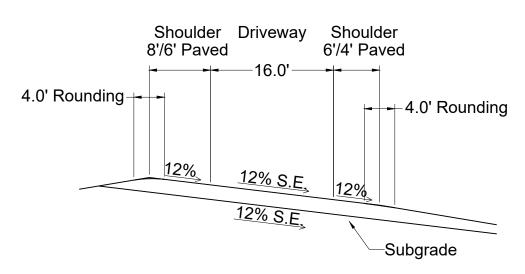
EXIT RAMP 1 DETAILS

File Name	S.D.6 Exi	t Ramp 1 Deta	ils
Drawing No.	S.D.6		
Paper Size	11" x 17"	Issued Date	11/28/18

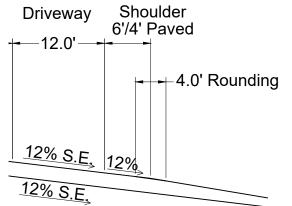




Cross Section 1-1: Superelevation at P.C. Scale 1 to 150



Cross Section 2-2: Fully Superelevated Exit Ramp
Scale 1 to 150



Cross Section 3-3: Acceleration Lane Scale 1 to 150



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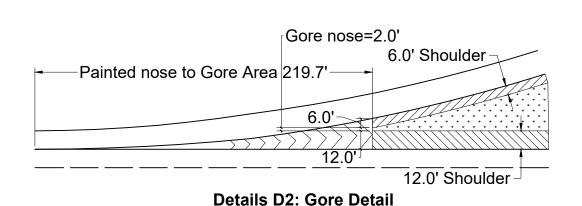
Project

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Drawing Title

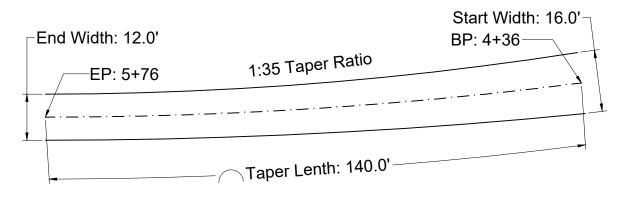
EXIT RAMP 2

	File Name	S.D.7 Exit Ramp 2		
	Drawing No.	S.D.7		
	Paper Size	11" x 17"	Issued Date	11/28/18



Scale 1:750

Right Edge



Detail D3: Tapering SectionScale 1 to 300

+ -7.68 in.

-11.52 in.

Centerline

EP: 0+94 BP: 0+00 Station Profile Control

Detail D1: Superelevation Profile

Scale 1 to 300

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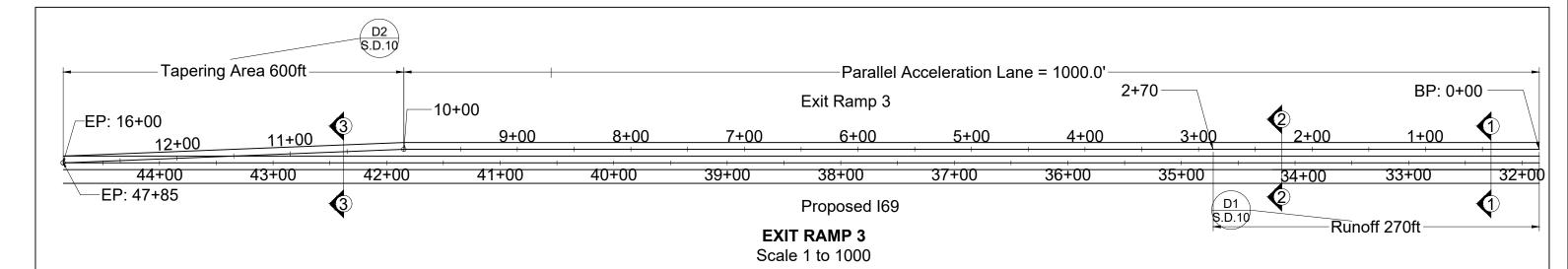
Project

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Drawing Title

EXIT RAMP 2 DETAILS

File Name	S.D.8 Exi	t Ramp 2 Deta	ils
Drawing No.	S.D.8		
Paper Size	11" x 17"	Issued Date	11/28/18



4.0' Rounding

Ditch
6:1 Slope

0.02F/F

0.02F/F

0.02F/F

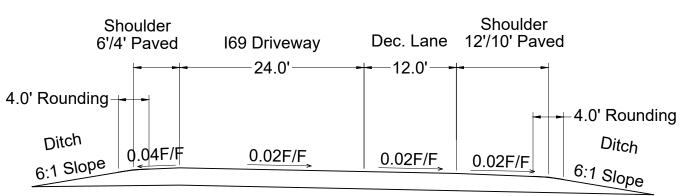
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0.02F/F

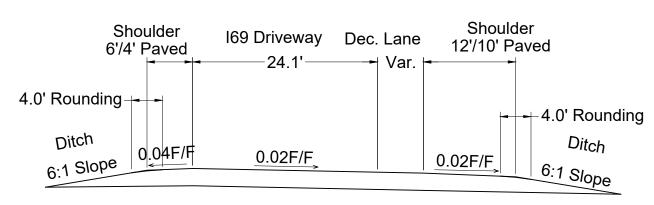
0.02F/F

0.02F/F

Cross Section 1-1: Superelevated in Acceleration Lane
Scale 1 to 150



Cross Section 2-2: Normal Slope Scale 1 to 150



Cross Section 3-3: Ending of Acceleration Lane Scale 1 to 150

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Lead Engineer	Huan Ngo	
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Drawn by	Huan Ngo	
Checked by	Steve Thesuis	
Project REST AREA ADJACENT TO PROPOSED 169		
Drawing Title EXIT RAMP 3		
File Name S.D.9 Exit Ramp 3		

S.D.9

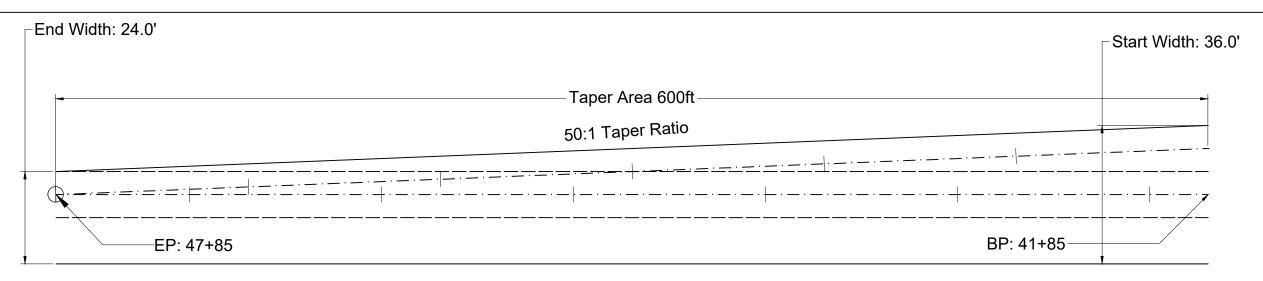
11" x 17"

Issued Date

11/28/18

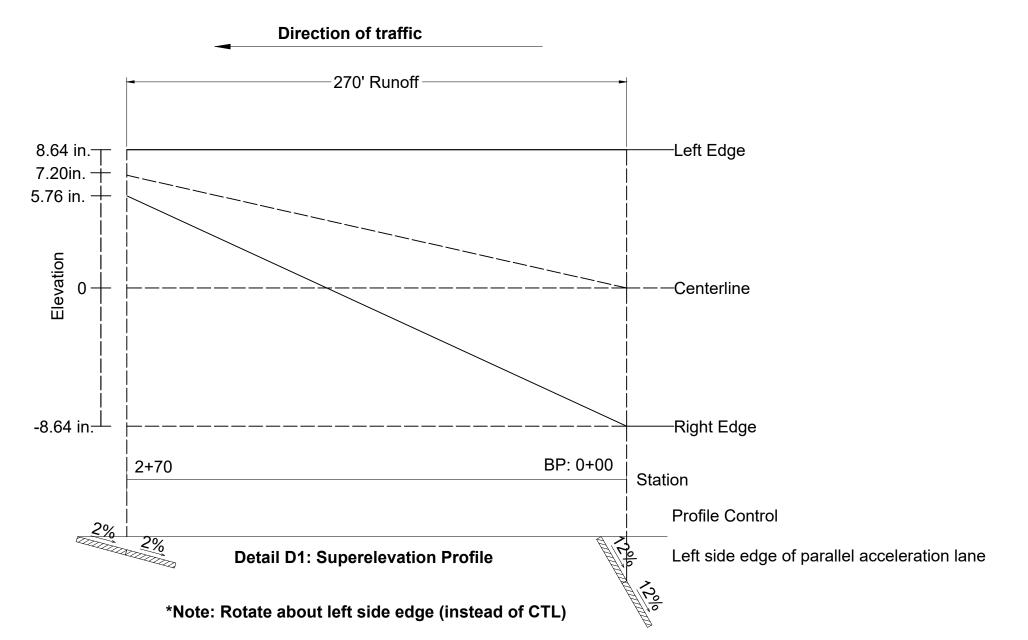
Drawing No.

Paper Size



Detail D2: Tapering Section

Scale 1 to 300



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General Director Huan Ngo

Lead Engineer	Huan Ngo
Designed by	Huan Ngo
Drawn by	Huan Ngo
Checked by	Steve Thesuis

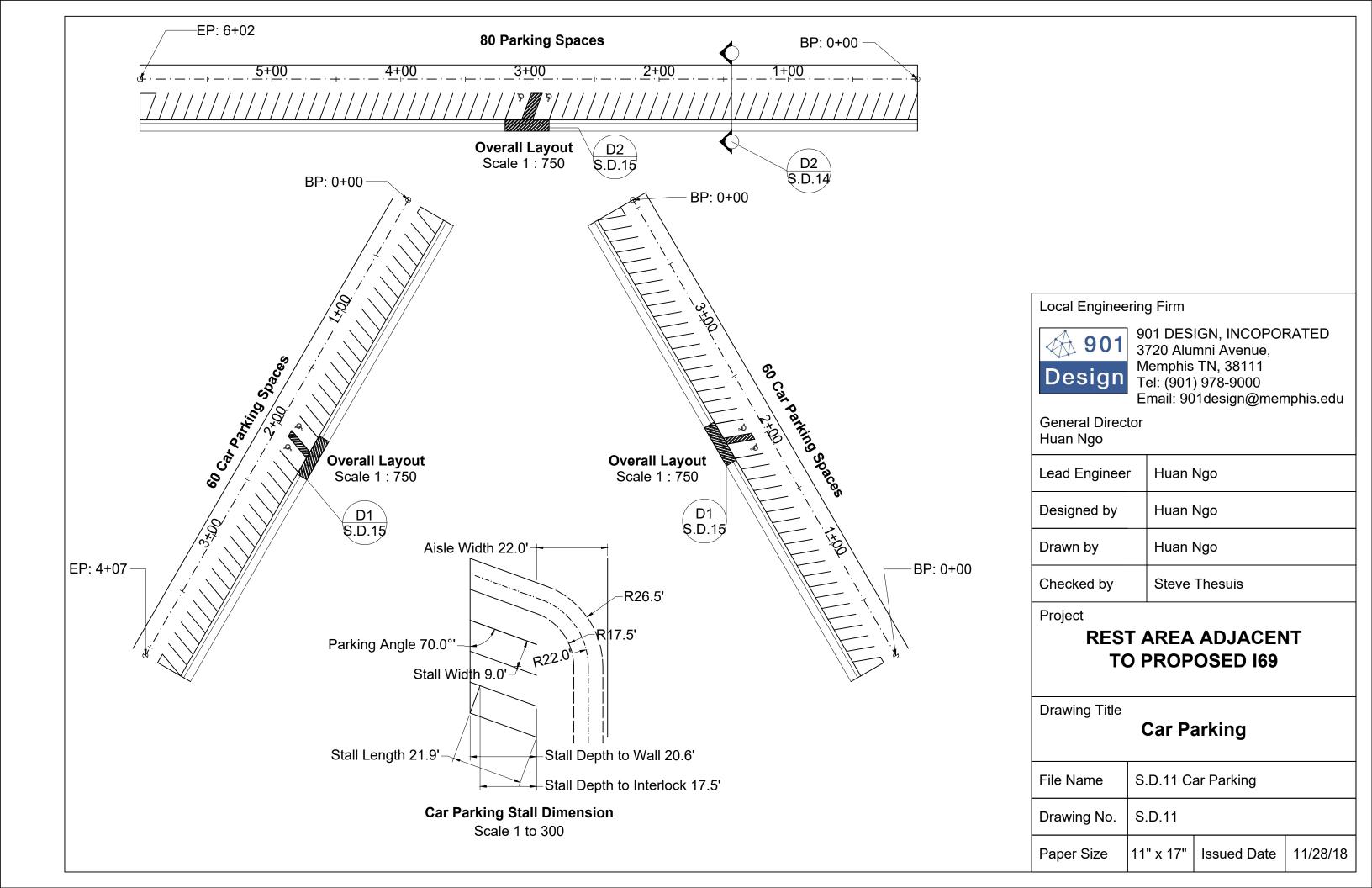
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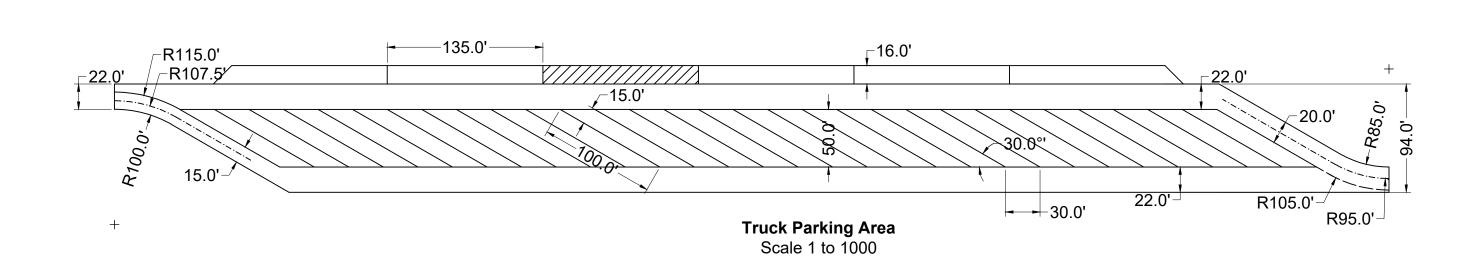
REST AREA ADJACENT TO PROPOSED 169

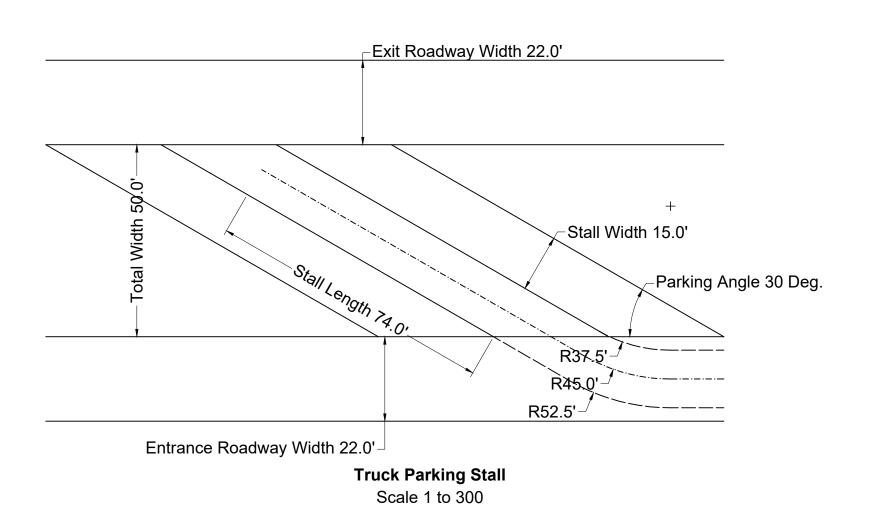
Drawing Title

EXIT RAMP 3 DETAILS

File Name	S.D.10 E	xit Ramp 3	
Drawing No.	S.D.10		
Paper Size	11" x 17"	Issued Date	11/28/18









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Email: 901design@memphis.edu

General Director Huan Ngo

Lead Engineer	Huan Ngo
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Drawn by	Huan Ngo
Checked by	Steve Thesuis

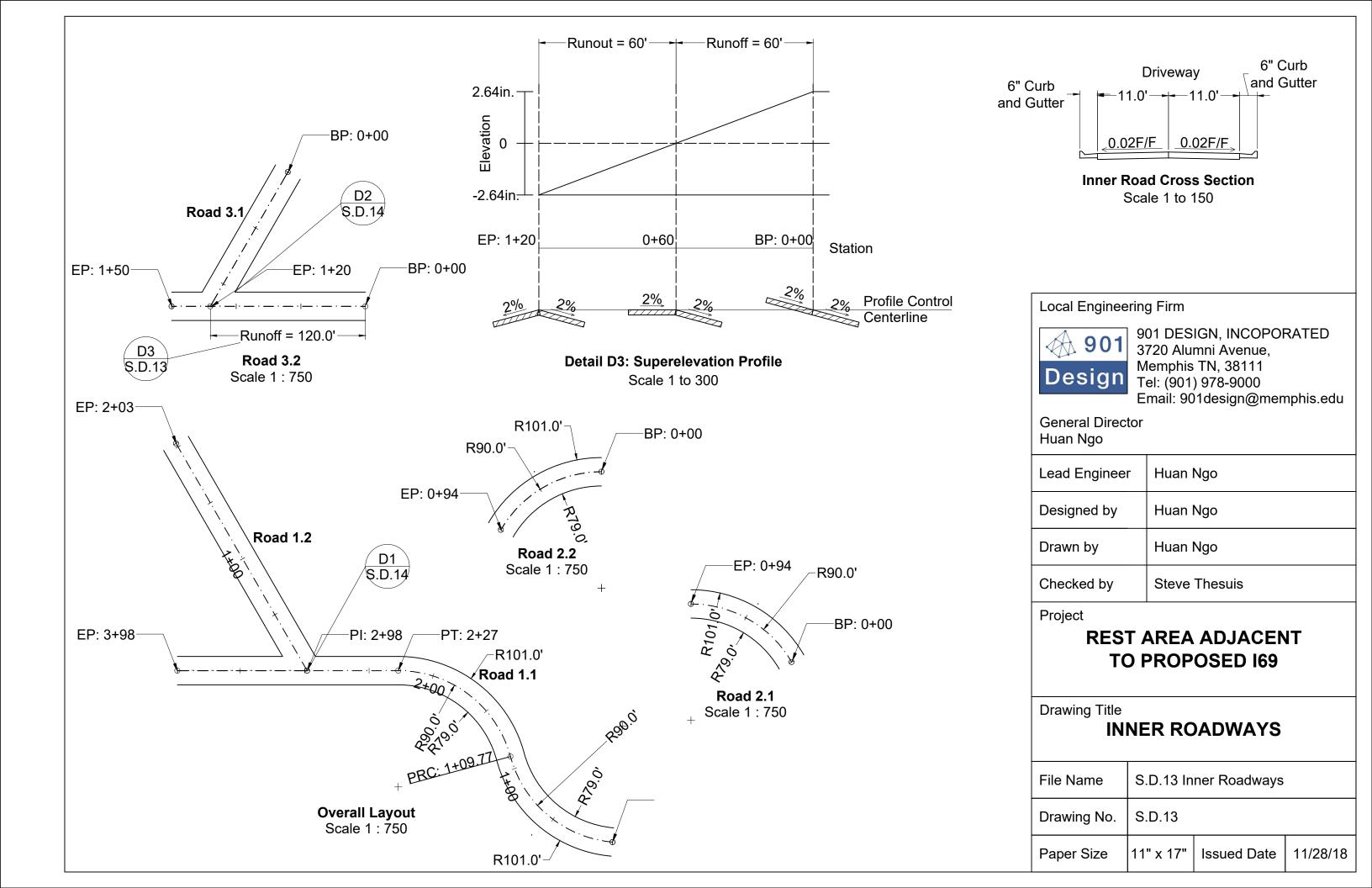
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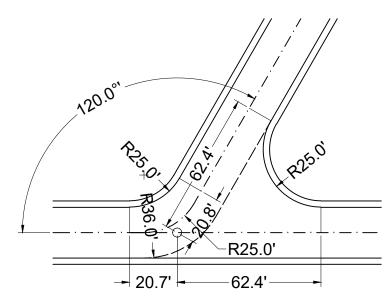
REST AREA ADJACENT TO PROPOSED 169

Drawing Title

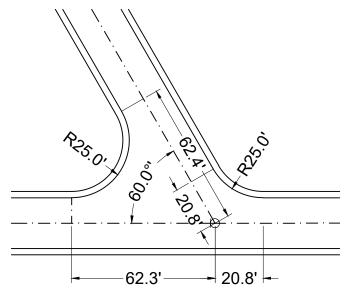
TRUCK PARKING

File Name	S.D.12 Tı	ruck Parking	
Drawing No.	S.D.12		
Paper Size	11" x 17"	Issued Date	11/28/18

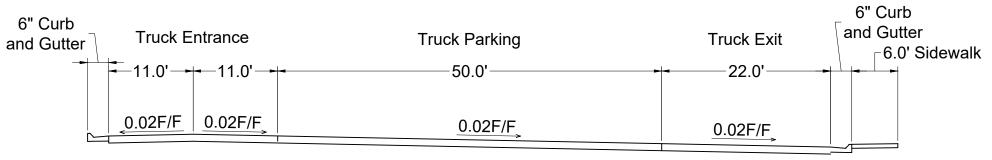




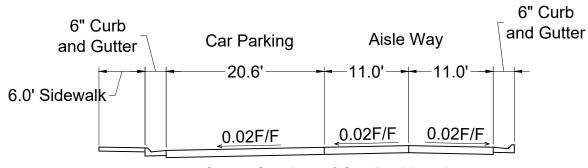
Detail D2: Intersection between Road 3.1 and 3.2Scale 1 to 500



Detail D1: Intersection between Road 1.1 and 1.2Scale 1 to 500



Cross Section of Truck Parking Area Scale 1 to 150



Cross Section of Car Parking Area Scale 1 to 150

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General Director Huan Ngo

Lead Engineer	Huan Ngo
Designed by	Huan Ngo
Drawn by	Huan Ngo
Checked by	Steve Thesuis

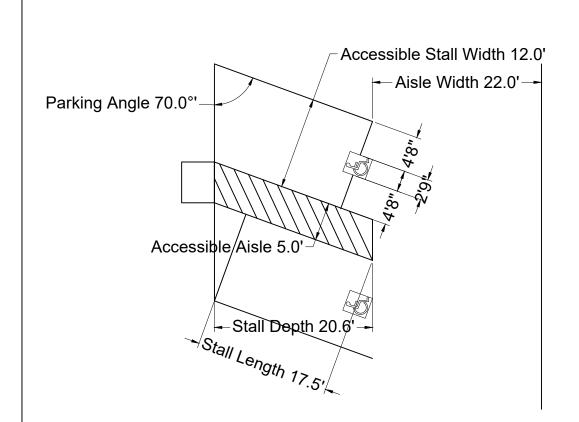
Project

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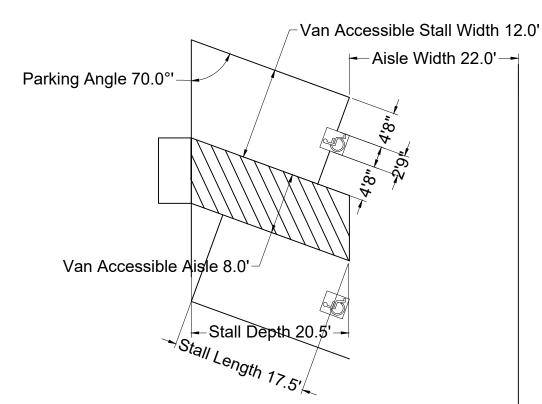
Drawing Title

OTHER DETAILS 1

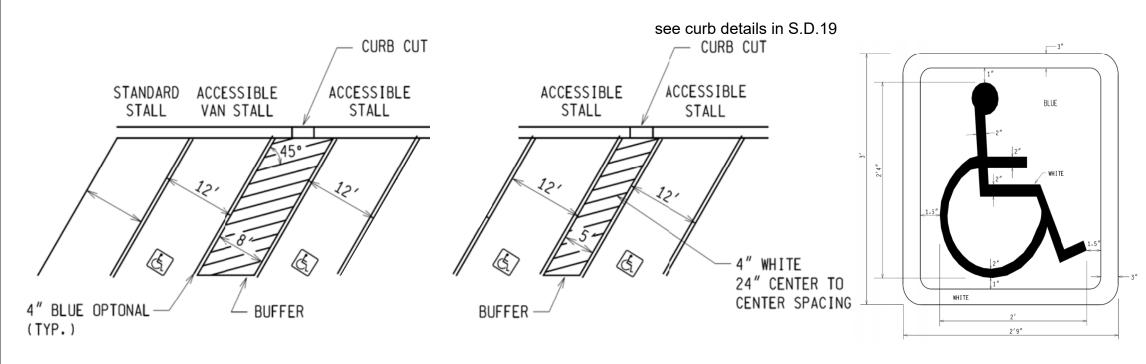
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Drawing No.	S.D.14		
Paper Size	11" x 17"	Issued Date	11/28/18

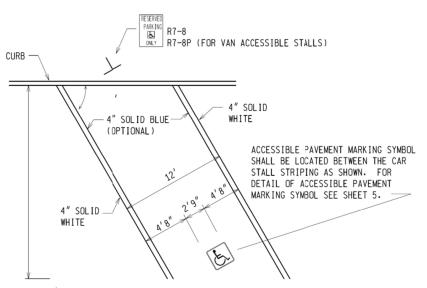


Pair of 2 car accessible parking Scale 1 to 150



Pair of 1 car and 1 van accessible parking
Scale 1 to 150







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General Director Huan Ngo

Lead Engineer	Huan Ngo
Designed by	Huan Ngo
Drawn by	Huan Ngo
Checked by	Steve Thesuis

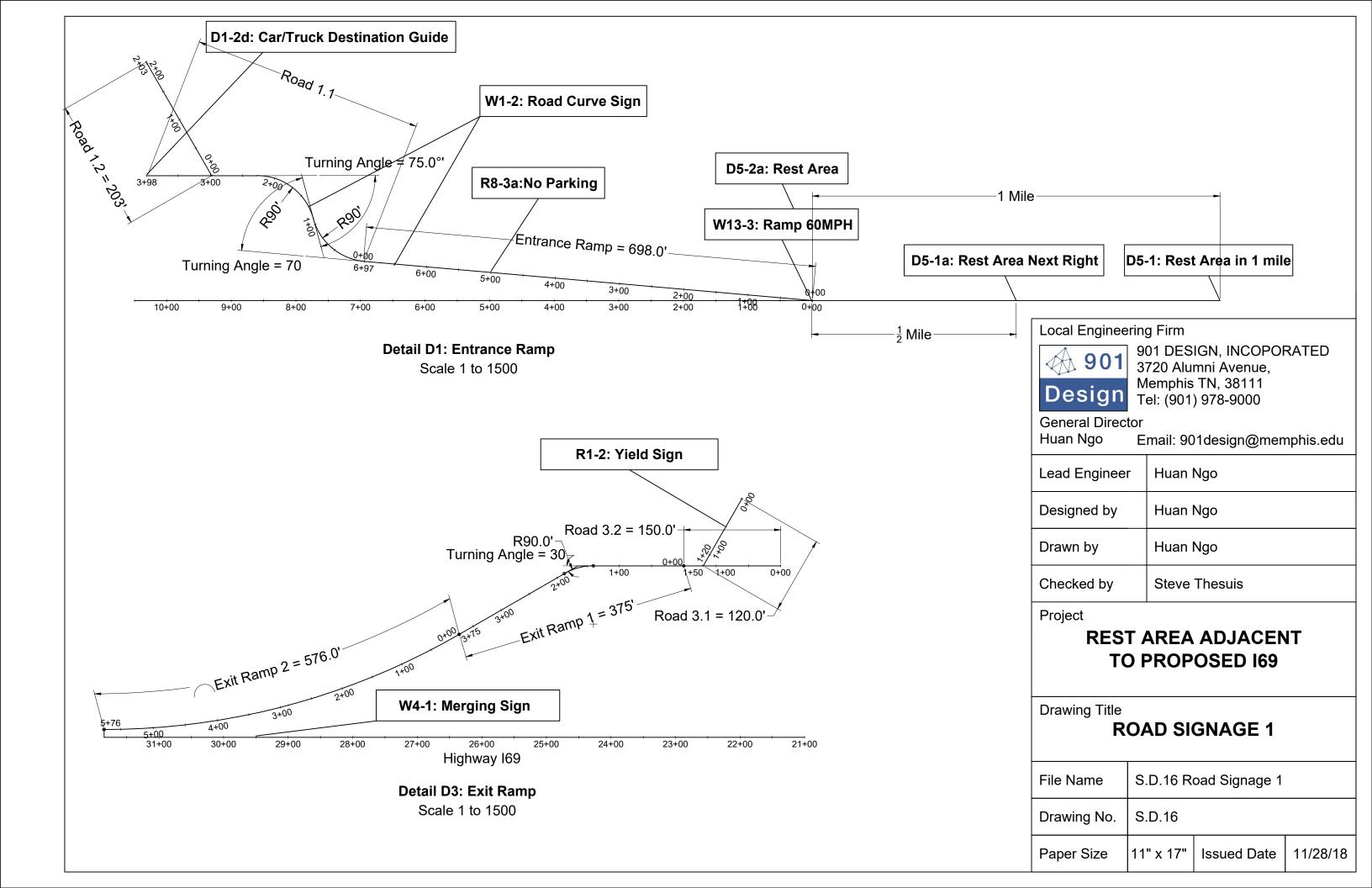
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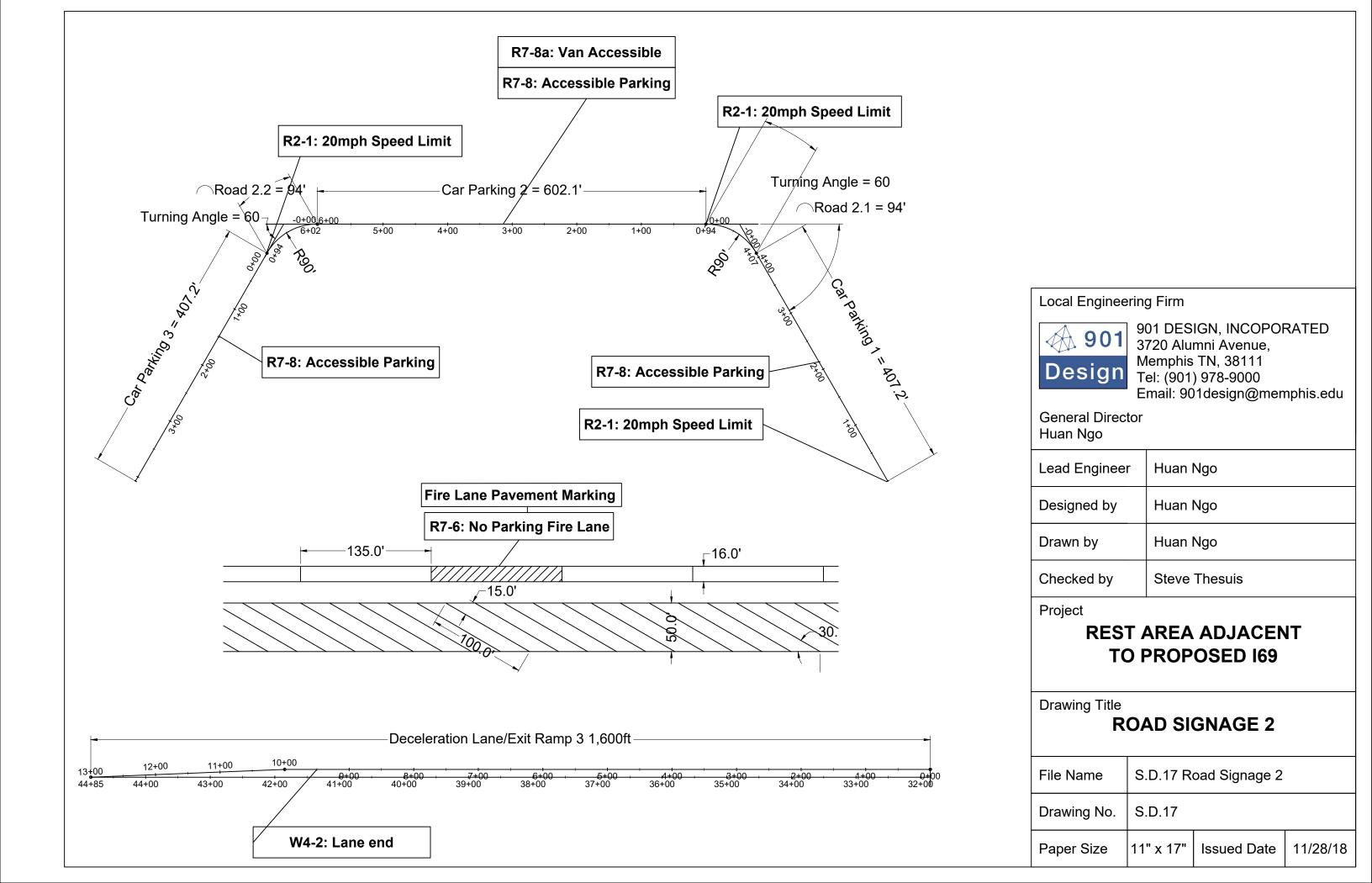
REST AREA ADJACENT TO PROPOSED 169

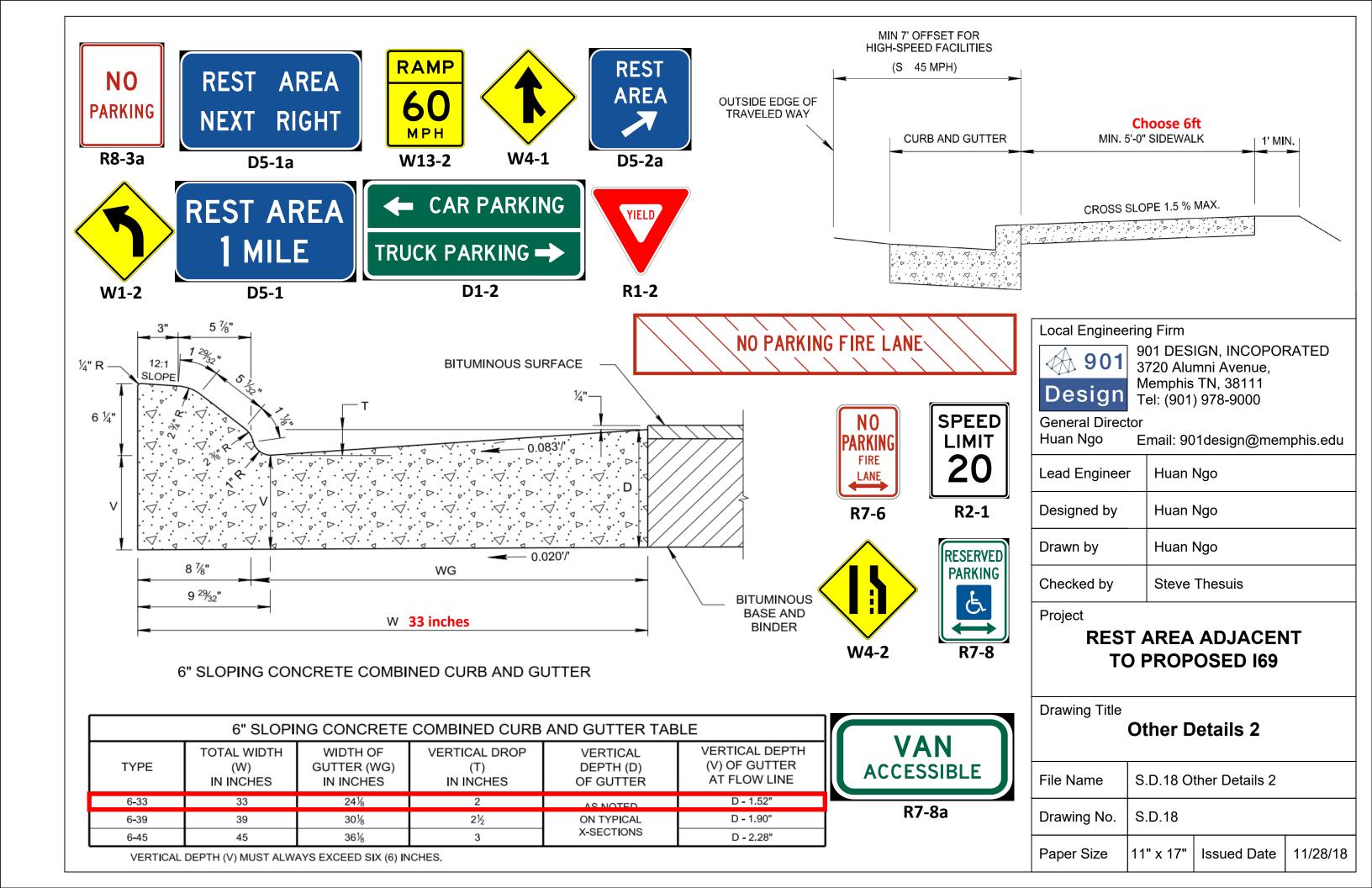
Drawing Title

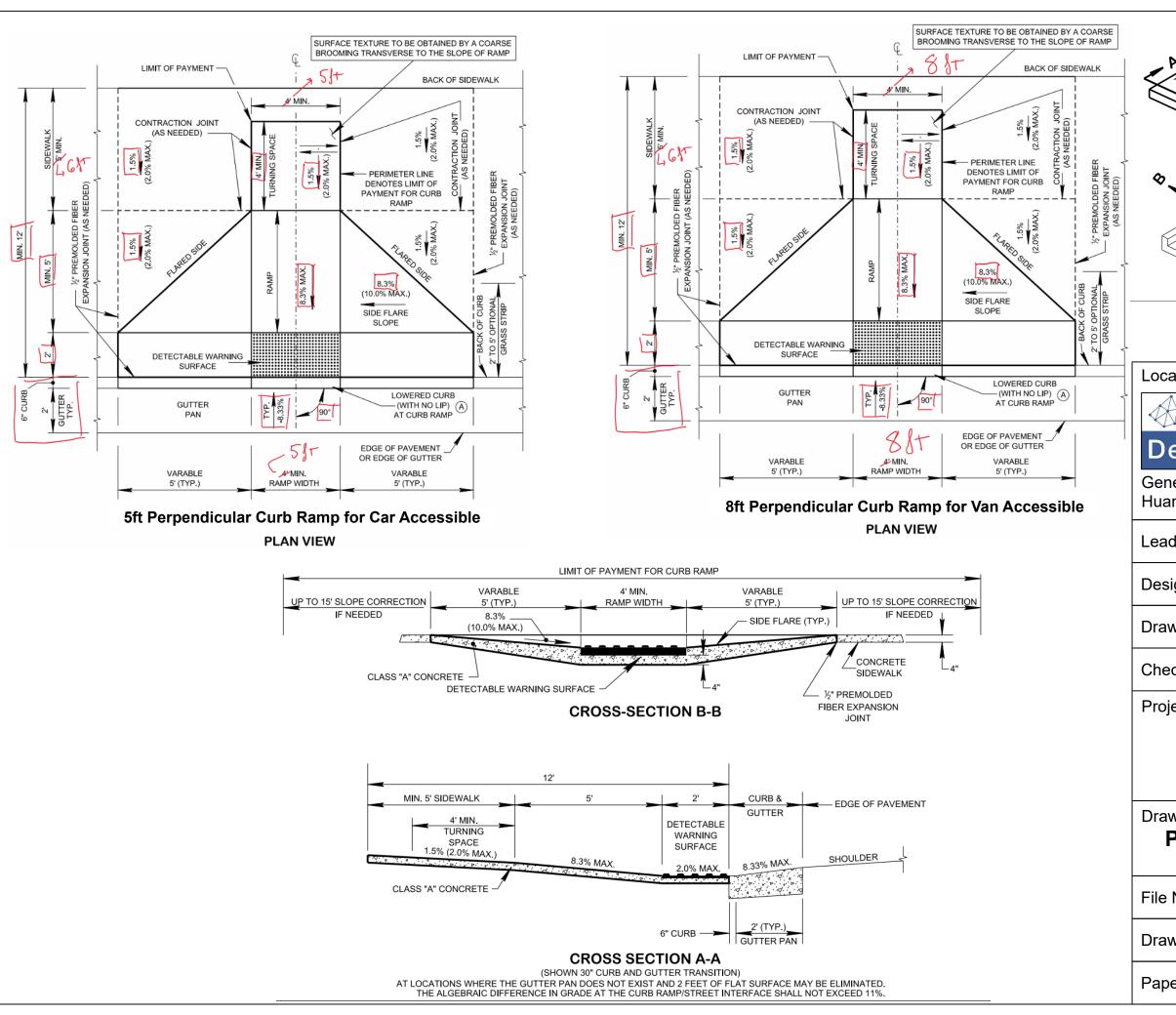
ACCESSIBLE PARKING

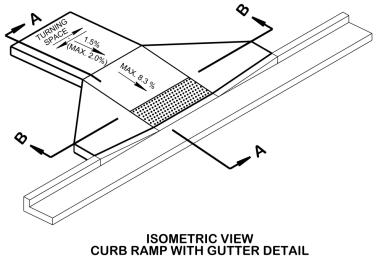
File Name	S.D.15 A	ccessible Parki	ng
Drawing No.	S.D.15		
Paper Size	11" x 17"	Issued Date	11/28/18











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901 DESIGN, INCOPORATED 3720 Alumni Avenue, Memphis TN, 38111 Tel: (901) 978-9000

General Director

Huan Ngo Email: 901design@memphis.edu

Lead Engineer	Huan Ngo
Designed by	Huan Ngo
Drawn by	Huan Ngo
Checked by	Steve Thesuis

Project

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Drawing Title

PERPENDICULAR CURB RAMP

File Name	S.D.19 Perpendicular Curb Ramp			
Drawing No.	. S.D.19			
Paper Size	11" x 17"	Issued Date	11/28/18	

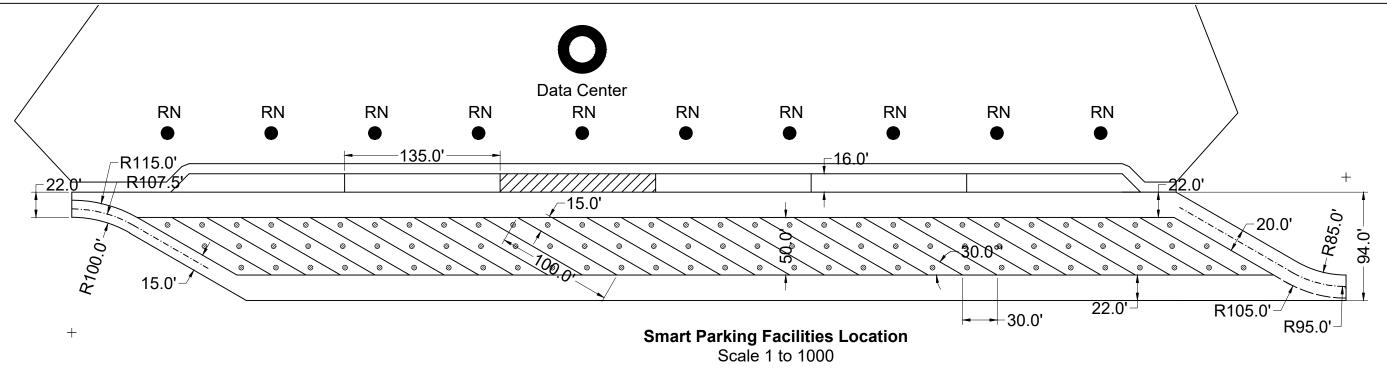




Figure 1. Sensor installation (images by Gorm Tuxen)



Figure 2. Relay node and data collector installation (images by Gorm Tuxen)

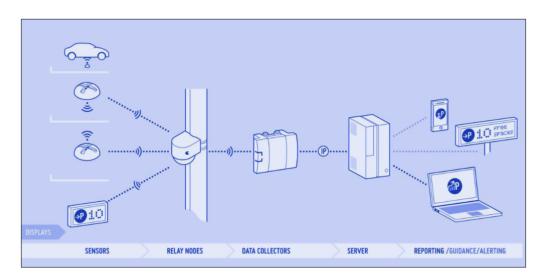


Figure 3. System components and hardware description (reprinted from NEDAP Identification Systems 2014a, with permission)

Design

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Email: 901design@memphis.edu Lead Engineer Huan Ngo Designed by Huan Ngo Drawn by Huan Ngo Steve Thesuis Checked by

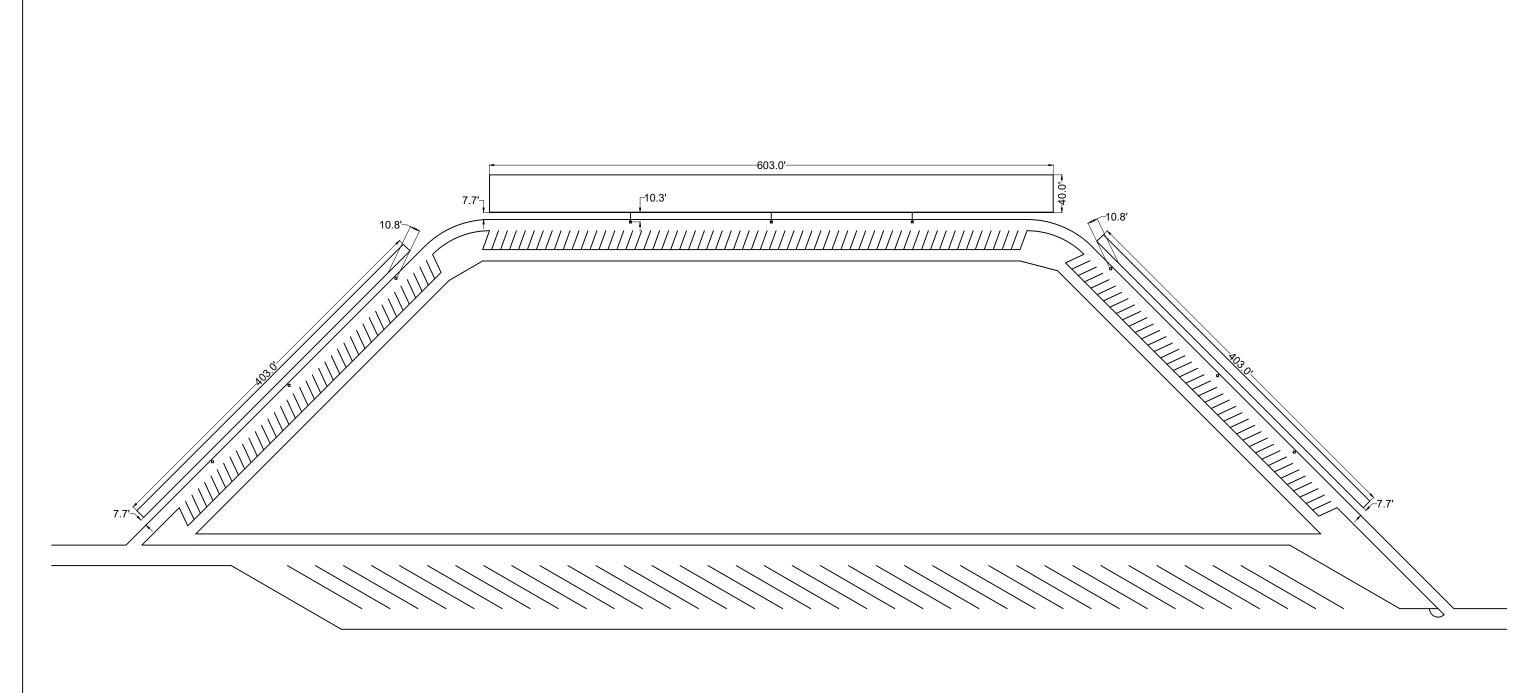
Project

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Drawing Title

SMART PARK FACILITIES

File Name	S.D.20 Smart Park Facilities			
Drawing No.	S.D.20			
Paper Size	11" x 17"	Issued Date	11/28/18	



Not To Scale

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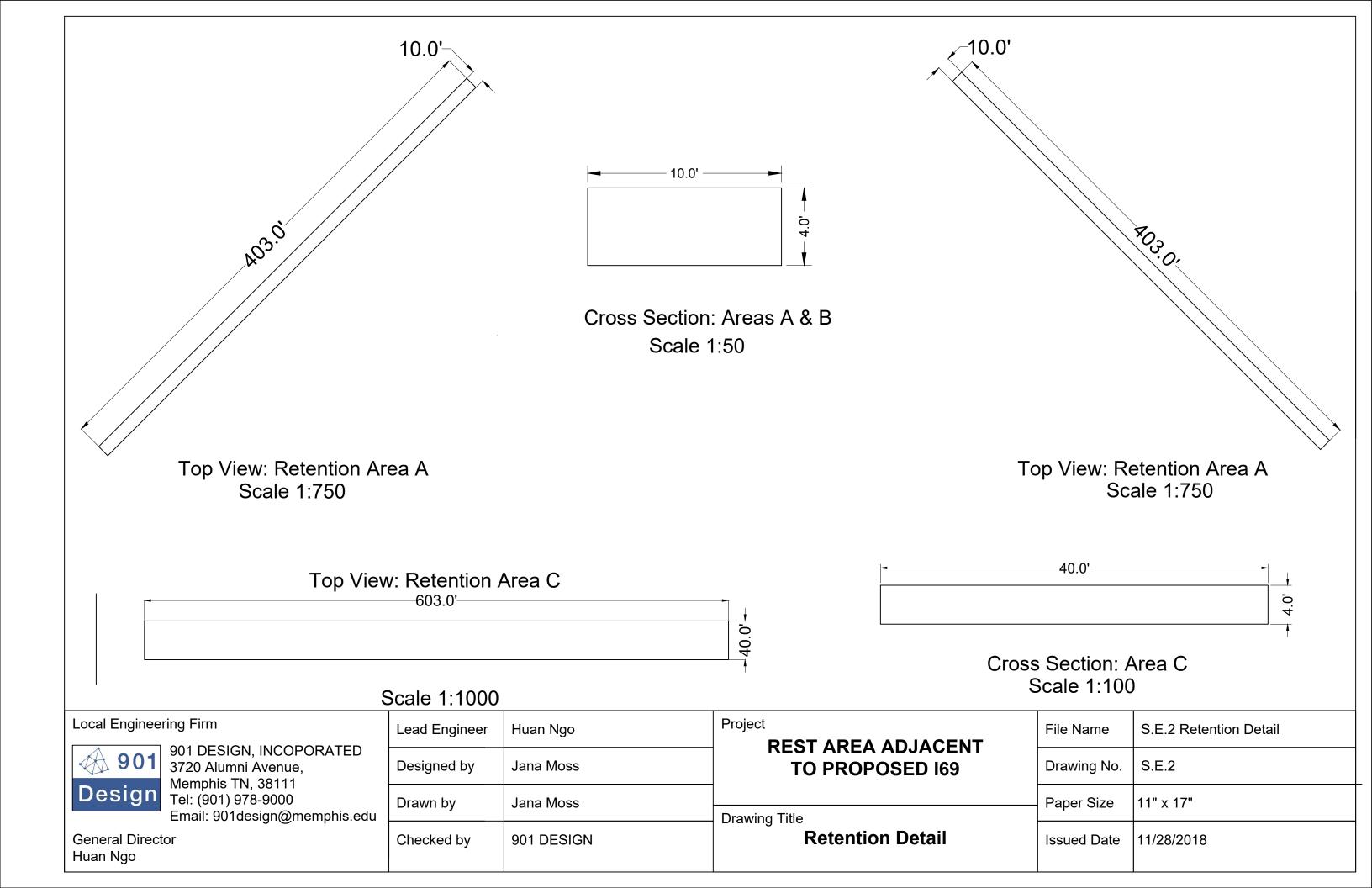
General Director Huan Ngo

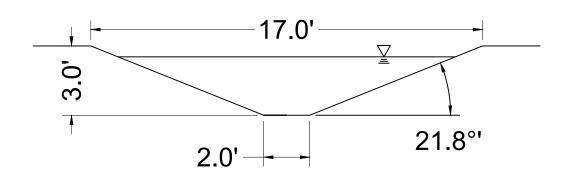
Lead Engineer	Huan Ngo	Project
Designed by	Jana Moss	•
Drawn by	Jana Moss	Drawing
Checked by	901 DESIGN	Diawing

REST AREA ADJACENT TO PROPOSED 169

Drawing Title **Drainage Plan View**

S.E.1 Drainage Plan View	
S.E.1	
11" x 17"	
11/28/2018	





Trapezoidal Ditch Design Depth (ft) 3				
3				
28.5000				
4000				
17				
1.7000				
18.2000				
1.6000				

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Tel: (901) 978-9000
Email: 901design@memphis.edu

General Director Huan Ngo

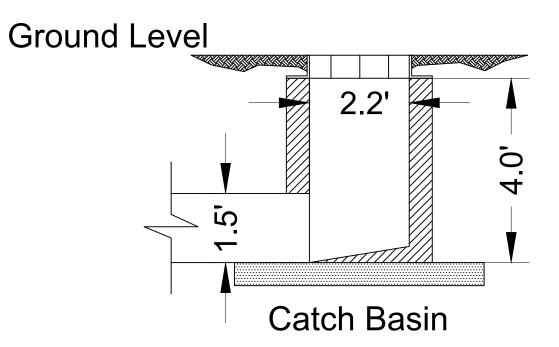
Lead Engineer	Huan Ngo	Р
Designed by	Jana Moss	
Drawn by	Jana Moss	
Checked by	901 DESIGN	

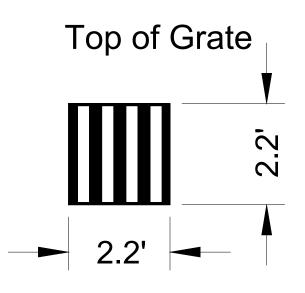
Project **REST AREA ADJACENT TO PROPOSED 169**

Drawing

Title		
	Ditch Detail	

File Name	S.E.3 Ditch Detail
Drawing No.	S.E.3
Paper Size	11" x 17"
Issued Date	11/28/2018





Scale 1:25

	Local Engineering Firm	Lead Engineer	Huan Ngo	REST AREA ADJACENT TO PROPOSED 169	File Name	S.E.4 Pipe Inlet Detail
	Momphie TN 38111	Designed by	901 DESIGN		Drawing No.	S.E.4
	Tel: (901) 978-9000 Email: 901design@memphis.edu	Drawn by	Jana Moss		Paper Size	11" x 17"
	General Director Huan Ngo	Checked by	901 DESIGN	Pipe Inlet Detail	Issued Date	11/28/2018