

INDEX TO SHEETS

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	2	MODULAR WALL - PLAN AND ELEVATION - 2
R-297I	1	MODULAR WALL - PLAN AND ELEVATION

LEGEND:

EXISTING HIGHWAY

ABBREVIATIONS:

- DIA. DIAMETER
- L.F. LINEAR FEET
- MAX. MAXIMUM
- MIN. MINIMUM
- NB NORTHBOUND
- NO. NUMBER
- PLF POUNDS PER LINEAR FEET
- QUANT. QUANTITIES
- SB SOUTHBOUND
- SF SQUARE FEET
- STA. STATION
- STD. STANDARD
- T_{AL} MINIMUM ALLOWABLE GEOGRID TENSION
- TYP. TYPICAL
- W.P. WORK POINT

SUMMARY OF ITEMS

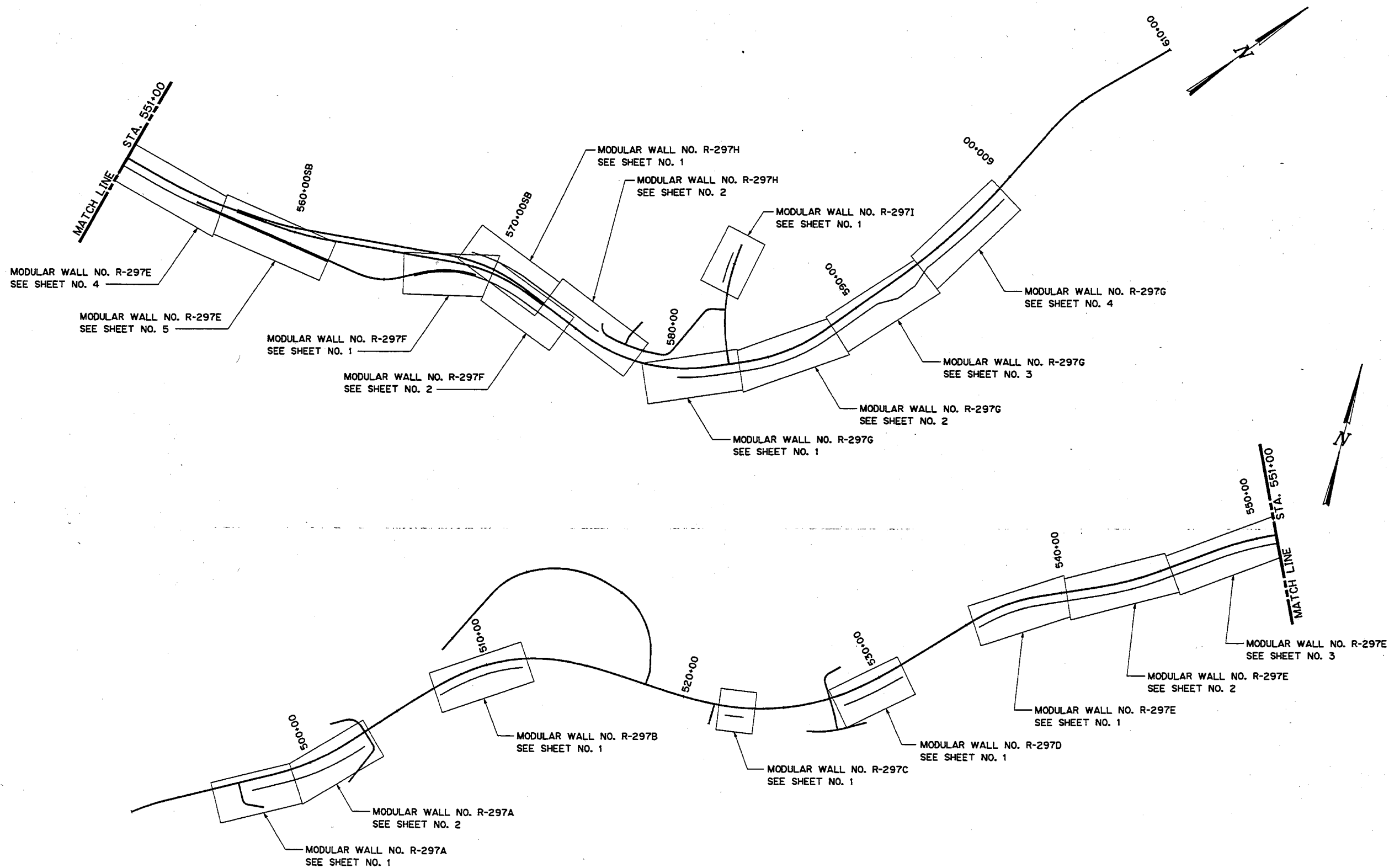
QUANTITIES	DESCRIPTION	UNIT	STRUCTURE NO.								TOTAL	
			R-297A	R-297B	R-297C	R-297D	R-297E	R-297F	R-297G	R-297H		R-297I
	MODULAR WALL	SF	6,050	4,430	640	3,760	33,950	9,690	20,940	10,360	970	90,790
	MODULAR WALL R-297G STAIRS	LS							1			1

UTAH DEPARTMENT OF TRANSPORTATION
 REGION 3 - OREM, UTAH
 STRUCTURES DESIGN
 US-189 PROVO CANYON
 UPPER FALLS TO WILDWOOD
 MODULAR WALL - INDEX & QUANT.
 PROJECT NUMBER *NH-0189(3)12

APPROVAL RECORD: 1/19/95 DATE: 1/19/95
 DESIGN M.L.F. 4/95
 CHECK LWA 7/95
 DRAWN BY: BV
 CHECK LWA 7/95
 QUANT. M.L.F. 5/95
 CHECK LWA 7/95

REVIEW DATE: 1/21/95
 PARCELS REVIEWED BY: [Signature]
 REVISION NO. DATE: [Signature]
 ORIGINAL SUBMISSION FOR AUTHORIZATION REVISIONS:

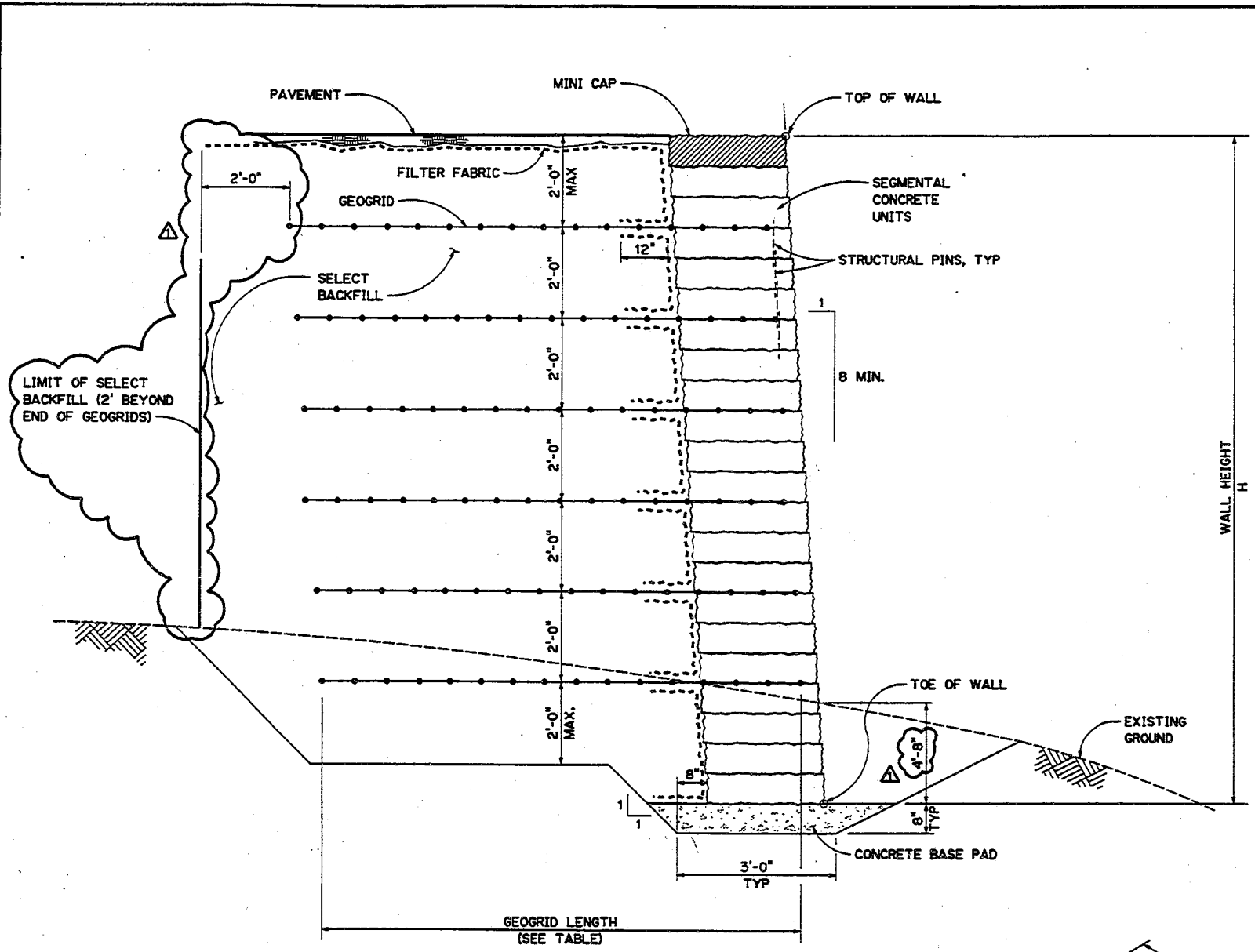




UTAH DEPARTMENT OF TRANSPORTATION REGION 3 - GREM, UTAH STRUCTURES DESIGN		DESIGN NO. DATE	CHECK LWA 7/95	REVIEW LWA 7/95	DATE	REMARKS
US-189 PROVO CANYON UPPER FALLS TO WILDWOOD		DESIGN MLF 3/95	CHECK LWA 7/95	REVIEW LWA 7/95	DATE	
MODULAR WALL KEY PLAN		DESIGN BY 3/95	CHECK LWA 7/95	REVIEW LWA 7/95	DATE	
PROJECT NUMBER *NH-0189(3)12		APPROVED DATE	APPROVED DATE	APPROVED DATE	APPROVED DATE	
R-297		CHIEF STRUCTURE ENGINEER		ORIGINAL SUBMISSION FOR AUTHORIZATION		REVISIONS
SHEET NO. 2						

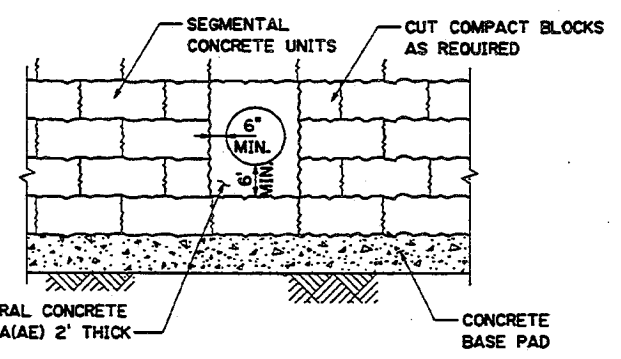


$$T_{DESIGN} = T_{AL} \times 1.5FS$$



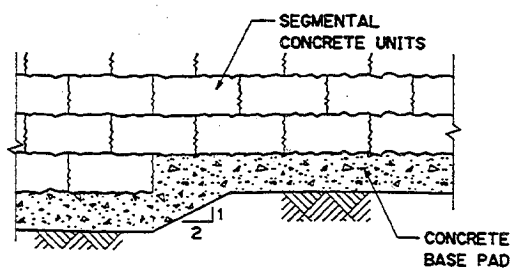
MODULAR WALL TYPICAL CROSS SECTION

MODULAR WALL DESIGN PARAMETERS				
WALL HEIGHT H	NO. OF GEOGRID LAYERS	GEOGRID LENGTH FEET	MIN. ALLOWABLE GEOGRID TENSION, T _{AL} , PLF <i>T_{DESIGN}</i>	AREA OF GEOGRIDS, SF PER LF. OF WALL
2'-0" TO 4'-0"	1	6	395 ⁵⁹³	6
4'-0" TO 6'-0"	2	8	520 ⁷⁸⁰	16
6'-0" TO 10'-0"	3	10	730 ¹⁰⁹⁵	30
10'-0" TO 12'-0"	4	12	930 ¹³⁹⁵	48
12'-0" TO 14'-0"	5	14	930 ¹³⁹⁵	70
14'-0" TO 16'-0"	6	16	1460 ²¹⁹⁰	96
16'-0" TO 18'-0"	7	18	1460 ²¹⁹⁰	126

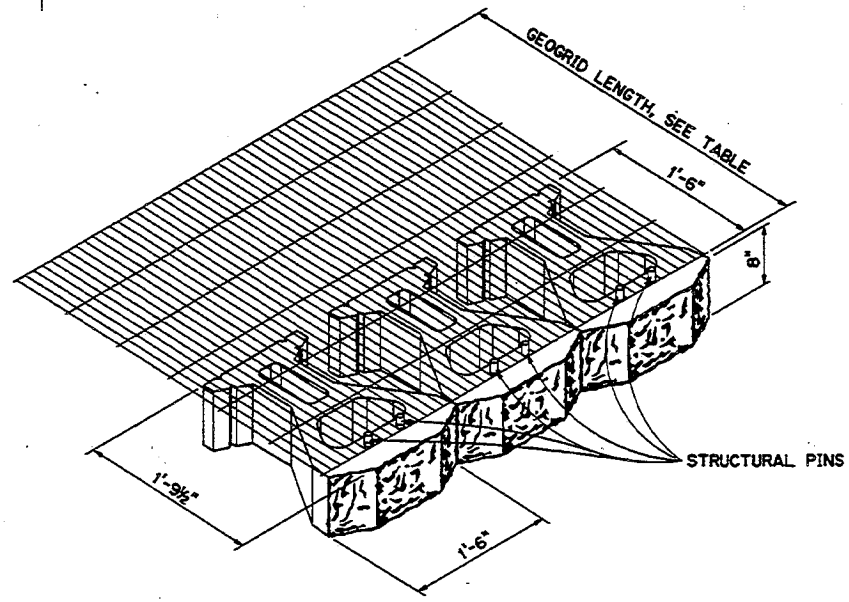


PIPE PENETRATION DETAIL
(FOLLOW MANUFACTURER RECOMMENDATIONS)

- NOTES:
- TOP OF WALL ELEVATION VARIES BASED ON EDGE OF PAVEMENT ELEVATION.
 - TOE OF WALL TO BE 4'-8" BELOW EXISTING GROUND LINE AT FACE OF WALL. STEP TOE OF WALL AS REQUIRED.
 - SEE SHEET NO. 2W FOR PIPE PENETRATION CROSS SECTION.



STEP DETAIL



TYPICAL GEOGRID LAYER DETAIL

UTAH DEPARTMENT OF TRANSPORTATION
REGION 3 - OREM, UTAH
STRUCTURES DESIGN

US-189 PROVO CANYON
UPPER FALLS TO WILDWOOD
MODULAR WALL STD. DETAILS - 1PROJECT NUMBER *NH-0189(3)12

APPROVAL: *1/95* DESIGN M.L.F. 1/95
RECOMM. *1/95* PROJECT NUMBER

APPROVED: *1/95* QUANT. M.L.F. 5/95

REVIEW: *1/95* CHECK LWA 7/95
DATE: *1/95* CHECK LWA 7/95

DATE: *1/95* CHECK LWA 7/95

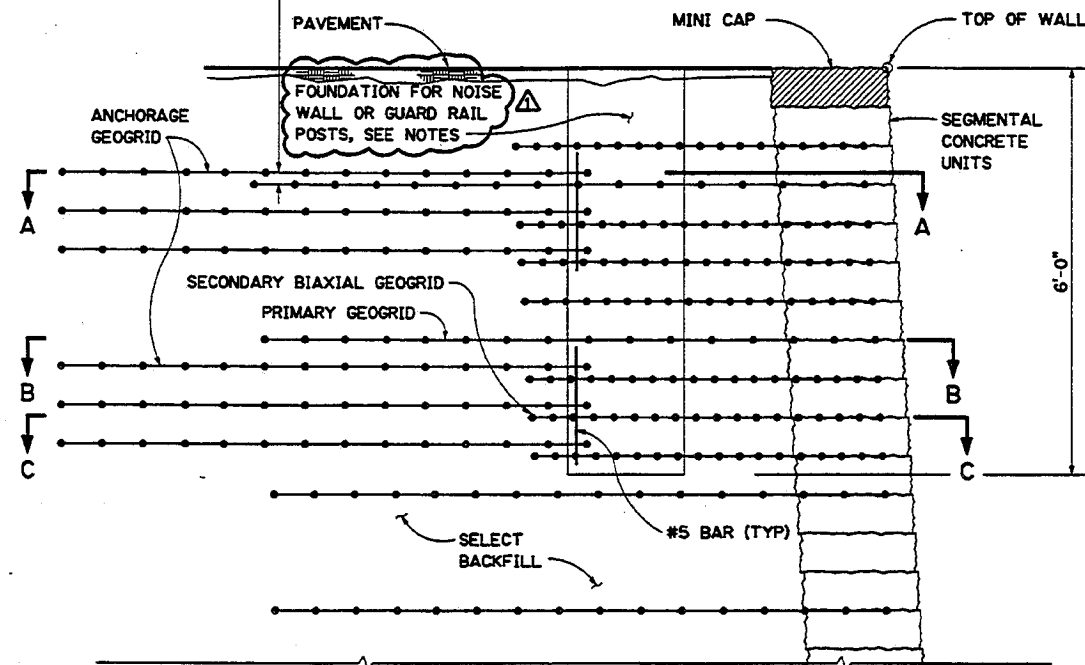
REVISIONS: *1/95* ORIGINAL SUBMISSION FOR AUTHORIZATION

REMARKS: *Changed note*

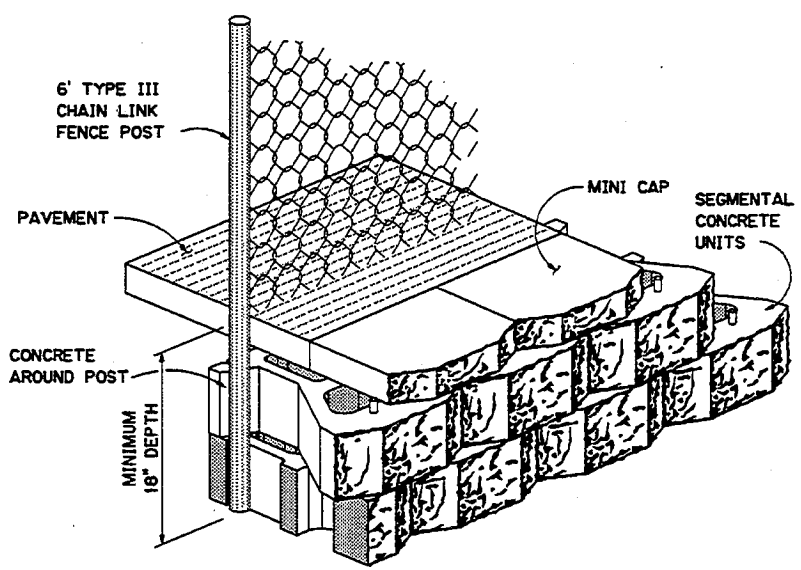
PARSONS BRINCKERHOFF
100 YEARS

R-297
SHEET NO. 3

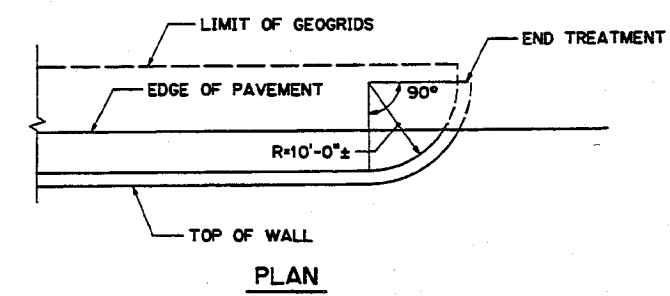
STEP SECONDARY AND/OR PRIMARY GEOGRID TO ALLOW 3" SOIL COVER TYP



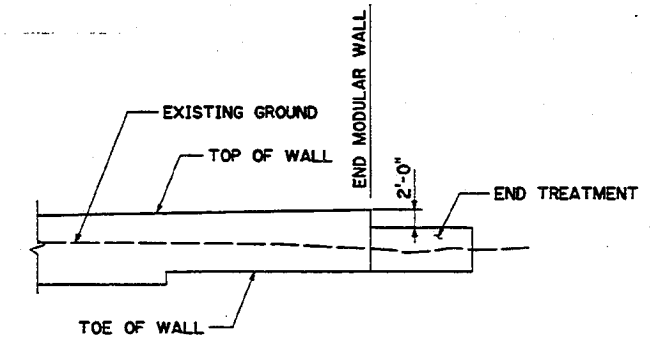
MODULAR WALL DETAIL FOR USE WITH NOISE WALL
SEE SHEET NO. 2-0 FOR DETAILS RELATED TO GUARD RAIL POSTS.



TYPICAL FENCE POST CONNECTION



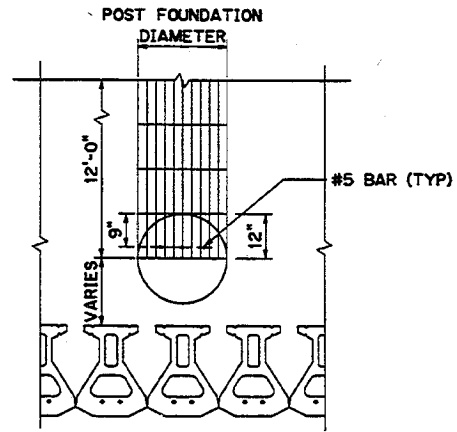
PLAN



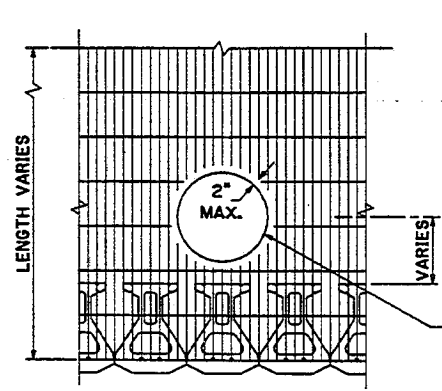
ELEVATION
STANDARD END TREATMENT

NOTE:

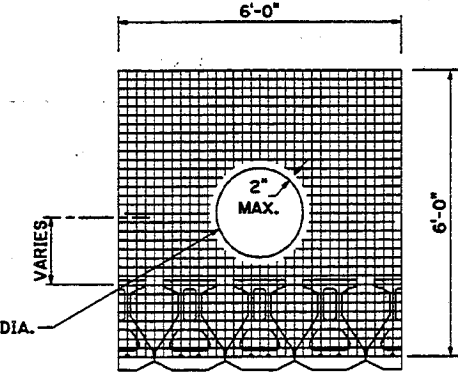
- 1. FOR LOCATIONS OF NOISE WALL AND GUARD RAIL ALONG MODULAR WALLS, SEE ROADWAY PLANS AND TYPICAL SECTIONS.
- 2. CARDBOARD SONOTUBE OR OTHER APPROVED MATERIAL MAY BE USED TO FORM POST SOCKET. HOLES MAY BE AUGERED WITHOUT A FORM BY TRIPLING THE ANCHORAGE GEOGRID WIDTH AND EXTENDING IT TO THE BACKS OF THE MODULAR BLOCKS.



SECTION A-A
ANCHORAGE GEOGRID



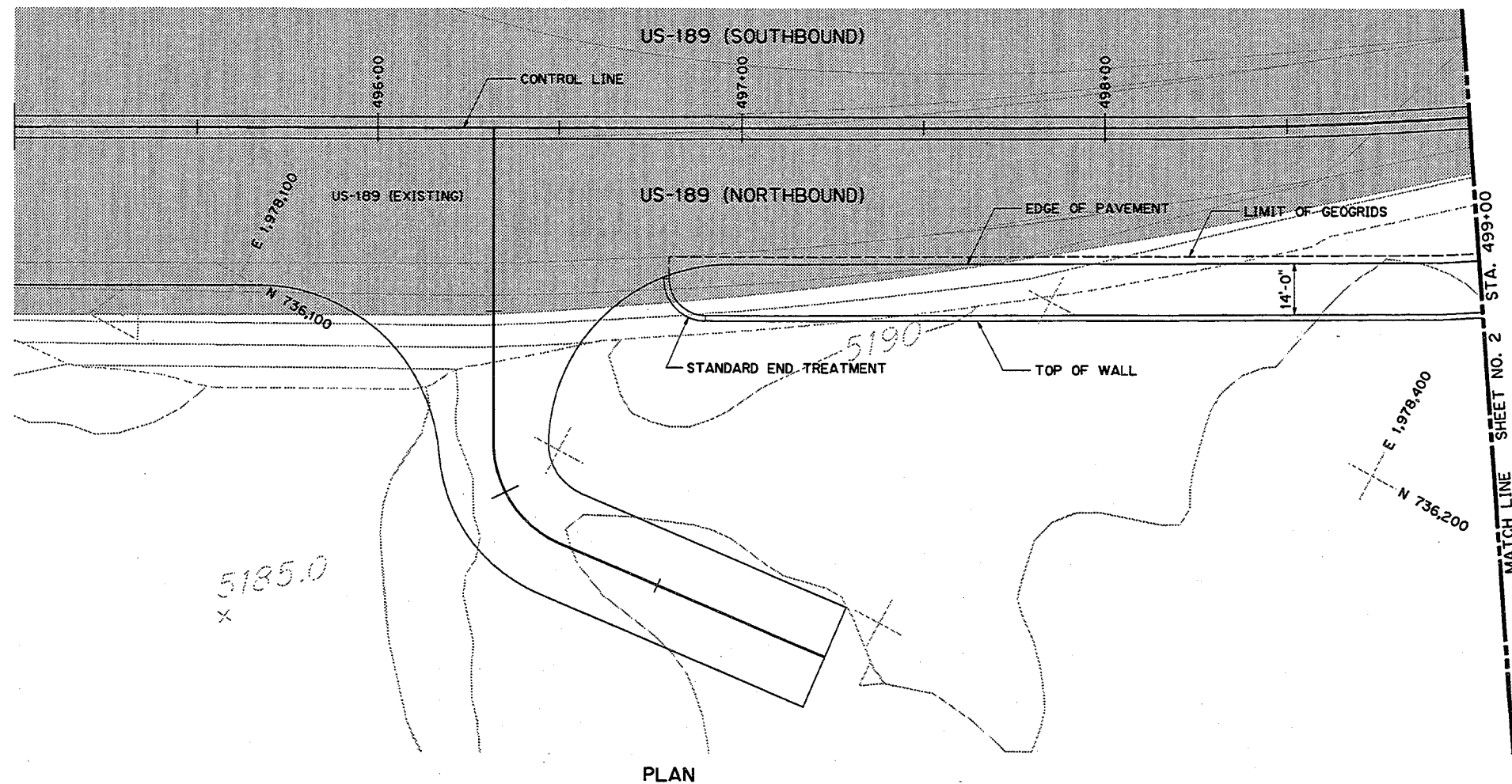
SECTION B-B
PRIMARY GEOGRID LAYER



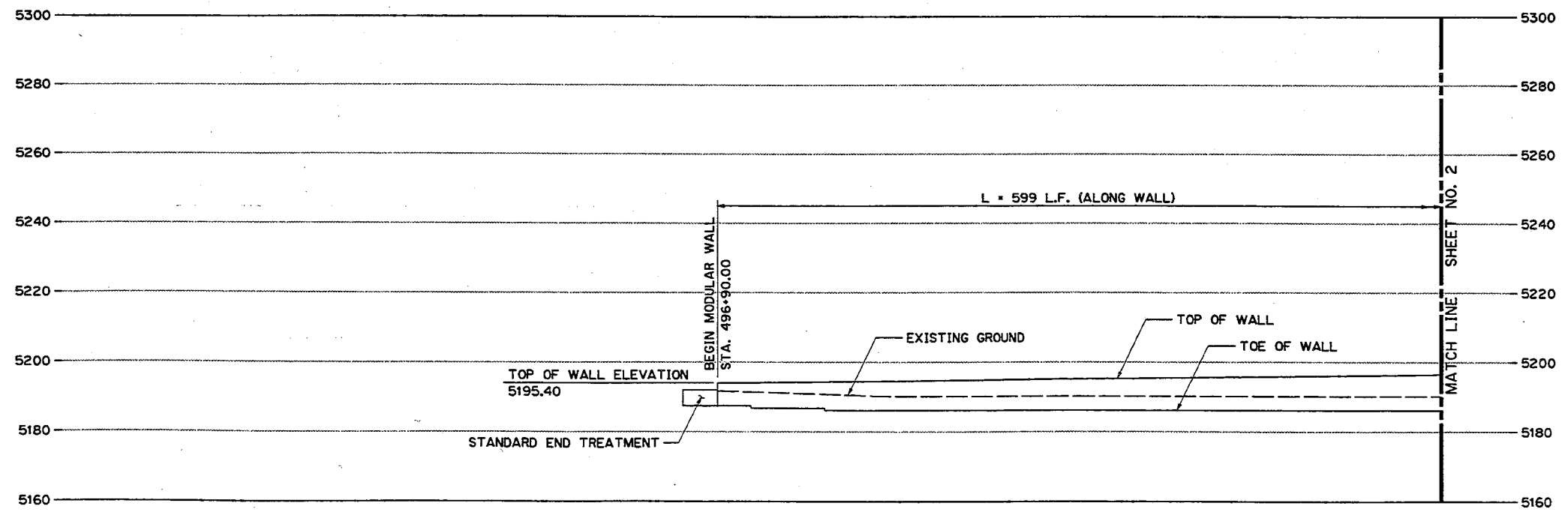
SECTION C-C
SECONDARY BIAxIAL GEOGRID LAYER

UTAH DEPARTMENT OF TRANSPORTATION REGION 3 - GREM, UTAH STRUCTURES DESIGN		DESIGN: MLF 3/95 CHECK: LWA 7/95	REVIEW: [Signature] DATE: [Blank]
APPROVAL: [Signature] RECOMMENDATION: [Blank]	DESIGN: MLF 3/95 CHECK: PA 3/95	CHECK: LWA 7/95 DATE: [Blank]	REMARKS: [Blank]
APPROVED: [Signature] DATE: [Blank]	QUANT: MLF 5/95 CHECK: LWA 7/95	BY: [Blank]	REVISIONS: [Blank]
US-189 PROVO CANYON UPPER FALLS TO WILDWOOD	MODULAR WALL STD. DETAILS - 2	PROJECT NUMBER: *NH-0189(3)12	R-297
SHEET NO. 4			

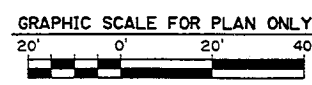




PLAN



ELEVATION PROJECTED ALONG CONTROL LINE

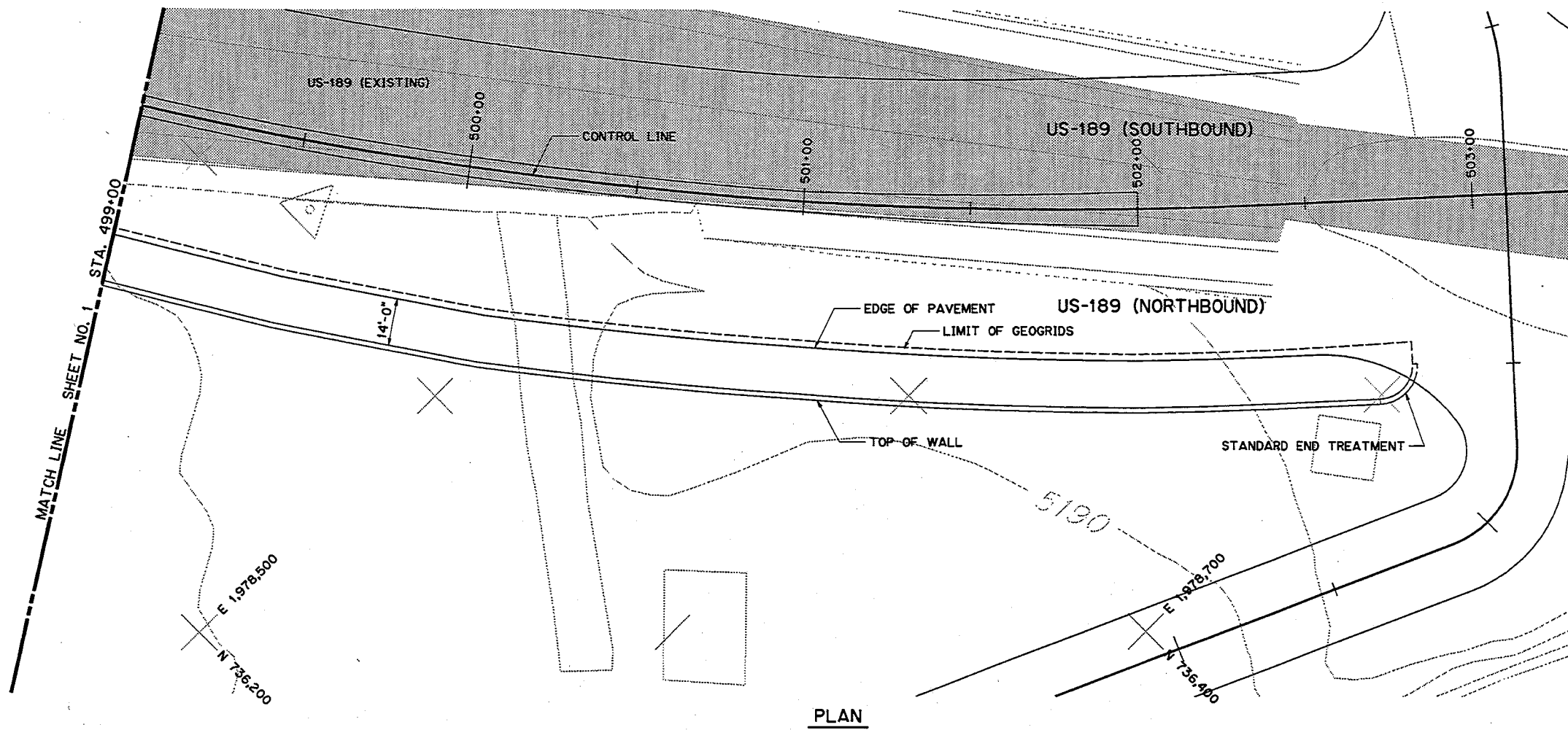


NOTES:

- 1. TOP OF WALL ELEVATION VARIES BASED ON EDGE OF PAVEMENT ELEVATION.
- 2. TOE OF WALL TO BE 4'-8" BELOW EXISTING GROUND LINE AT FACE OF WALL. STEP TOE OF WALL AS REQUIRED.

UTAH DEPARTMENT OF TRANSPORTATION REGION 3 - OREM, UTAH STRUCTURES DESIGN		NO.	DATE	DESIGN REV. BY	PROJECT SUBMITTED BY	REMARKS
DRAWN PA 4/95		NO.	DATE	DESIGN REV. BY	PROJECT SUBMITTED BY	REMARKS
CHECK LWA 7/95		NO.	DATE	DESIGN REV. BY	PROJECT SUBMITTED BY	REMARKS
CHECK M.L.F. 4/95		NO.	DATE	DESIGN REV. BY	PROJECT SUBMITTED BY	REMARKS
CHECK LWA 7/95		NO.	DATE	DESIGN REV. BY	PROJECT SUBMITTED BY	REMARKS
CHECK M.L.F. 5/95		NO.	DATE	DESIGN REV. BY	PROJECT SUBMITTED BY	REMARKS
APPROVAL RECORDED DATE 9/95 PROJECT MANAGER 9/95 DATE PROJECT MANAGER		APPROVED DATE		CHIEF STRUCTURAL ENGINEER		
US-189 PROVO CANYON UPPER FALLS TO WILDWOOD PLAN AND ELEVATION - 1		PROJECT NUMBER *NH-0189(3)12		SHEET NO. 1		R-297A

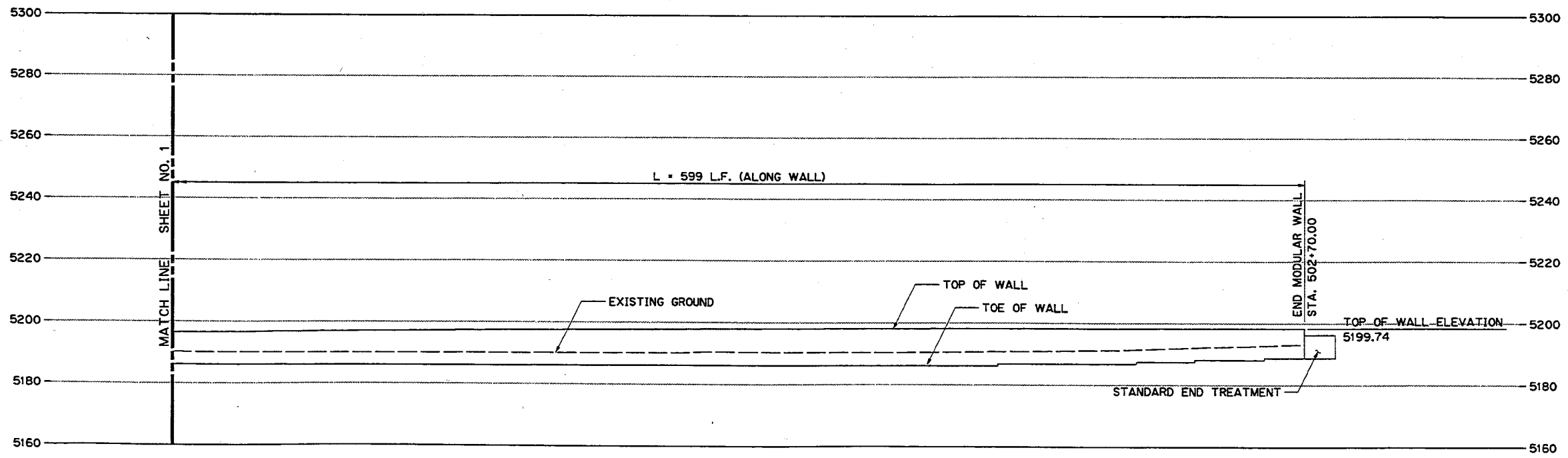




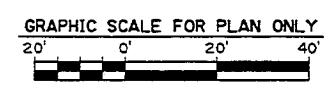
PLAN

NOTES:

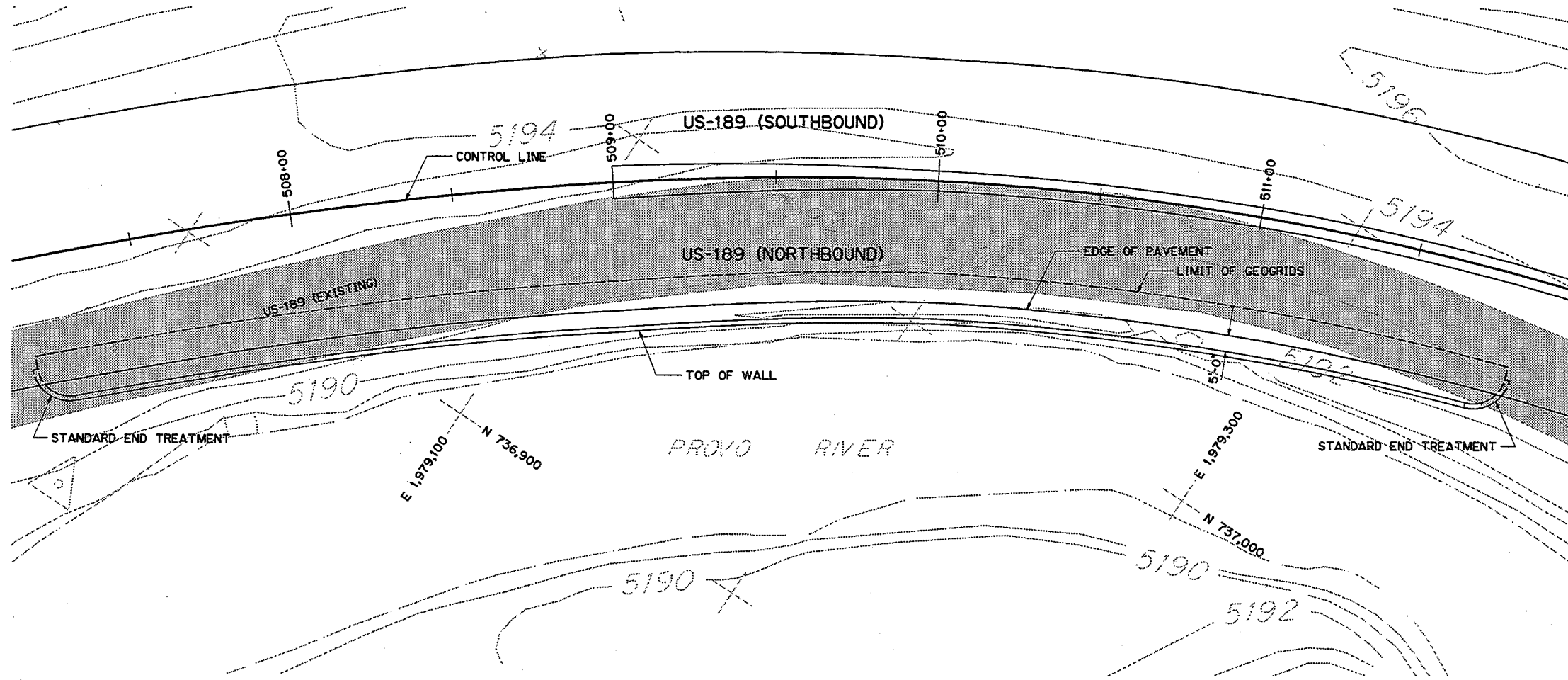
1. TOP OF WALL ELEVATION VARIES BASED ON EDGE OF PAVEMENT ELEVATION.
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ELEVATION PROJECTED ALONG CONTROL LINE



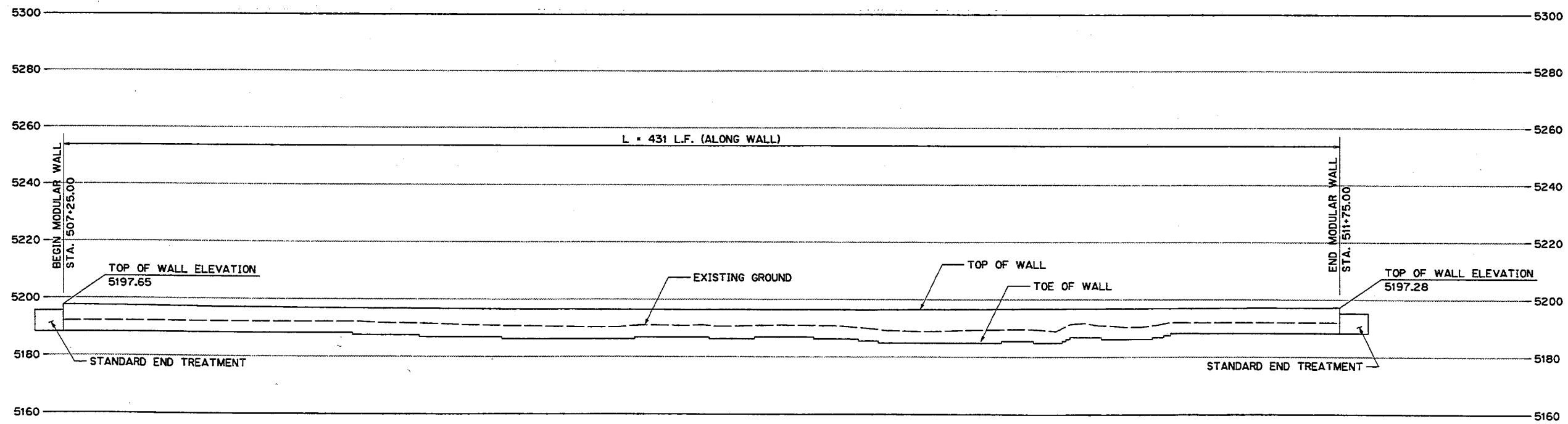
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APPROVED DATE	CHIEF STRUCTURAL ENGINEER	QUANT. MLF 5/95	CHECK LWA 7/95	BY
US-189 PROVO CANYON UPPER FALLS TO WILDWOOD	PLAN AND ELEVATION - 2	PROJECT NUMBER *NH-0189(3)12	R-297A	
SHEET NO. 2			REVISIONS	
ORIGINAL SUBMISSION FOR AUTHORIZATION		DATE	REMARKS	
NO.	DATE	DATE	REVISIONS	



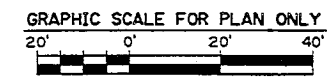
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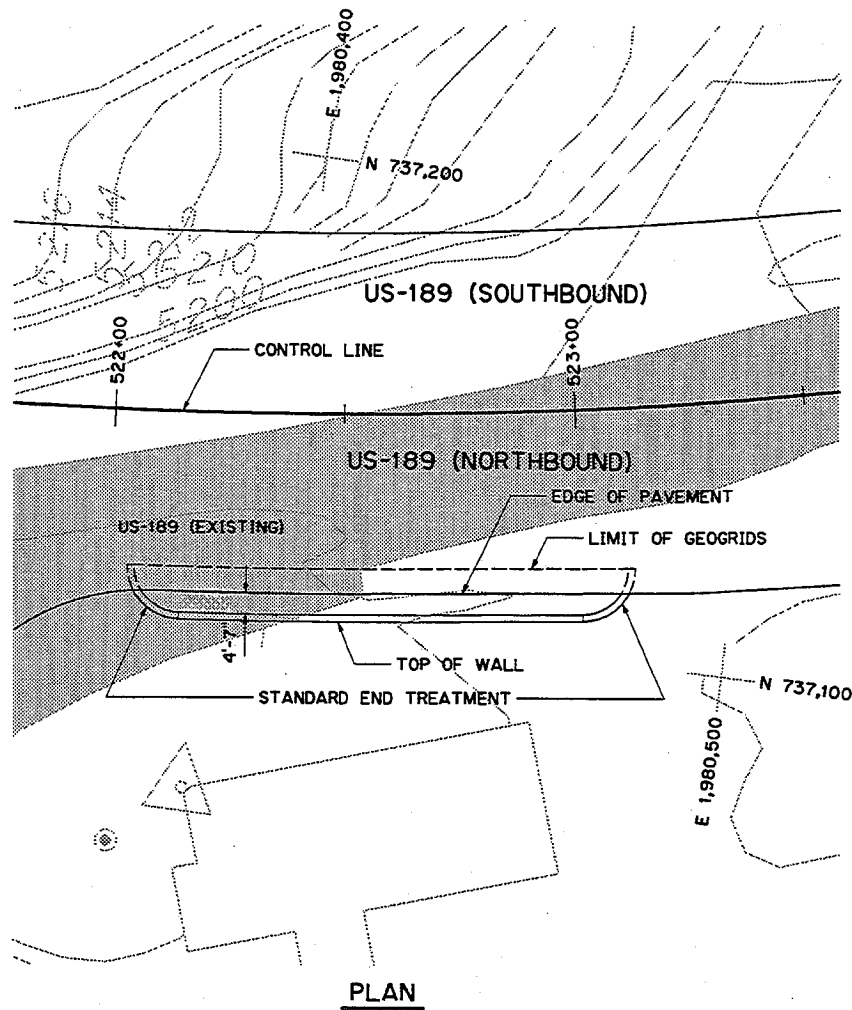
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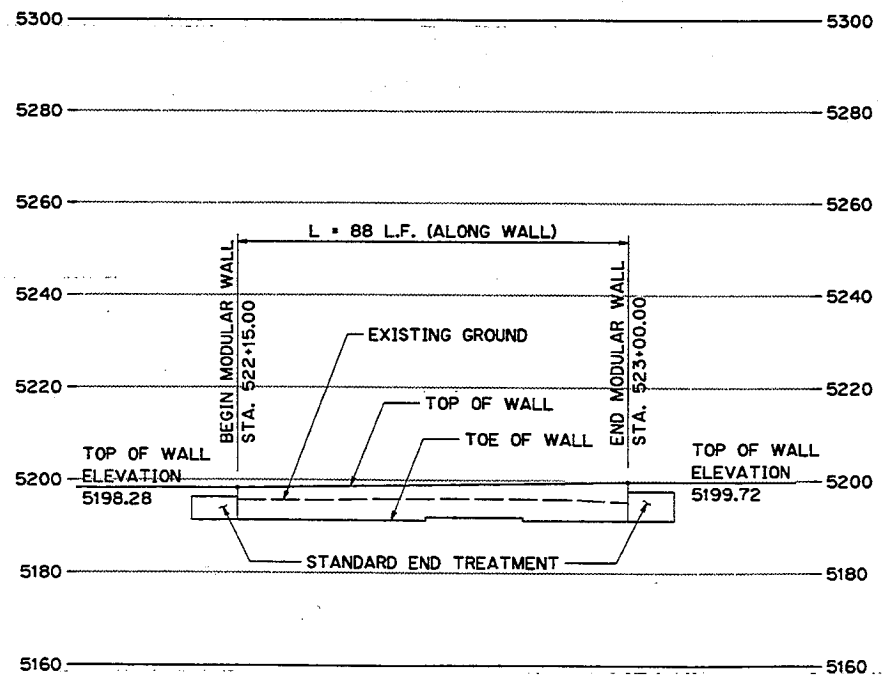
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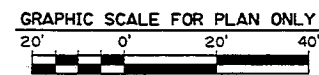
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APPROVAL	DATE	CHECK	DATE	REVIEW	DATE
RECOMM.	9/95	MLF	4/95	LWA	7/95
APPROVED	DATE	QUANT.	MLF	5/95	BY
US-189 PROVO CANYON		UPPER FALLS TO WILDWOOD		PLAN AND ELEVATION	
PROJECT NUMBER		*NH-0189(3)12		R-297B	
SHEET NO.		1		REVISIONS	
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PLAN



ELEVATION PROJECTED ALONG CONTROL LINE



NOTES:

- TOP OF WALL ELEVATION VARIES BASED ON EDGE OF PAVEMENT ELEVATION.
- TOE OF WALL TO BE 4'-8" BELOW EXISTING GROUND LINE AT FACE OF WALL. STEP TOE OF WALL AS REQUIRED.

UTAH DEPARTMENT OF TRANSPORTATION
 REGION 3 - OREM, UTAH
 STRUCTURES DESIGN

APPROVAL REGIONAL: *gms* DATE: *7/95*
 PROJECT DESIGNER: *gms*
 APPROVED: *gms* DATE: *7/95*
 PROJECT ENGINEER: *gms*
 CHIEF STRUCTURAL ENGINEER

US-189 PROVO CANYON
 UPPER FALLS TO WILDWOOD
 PLAN AND ELEVATION
 PROJECT NUMBER: *NH-0189(3)12

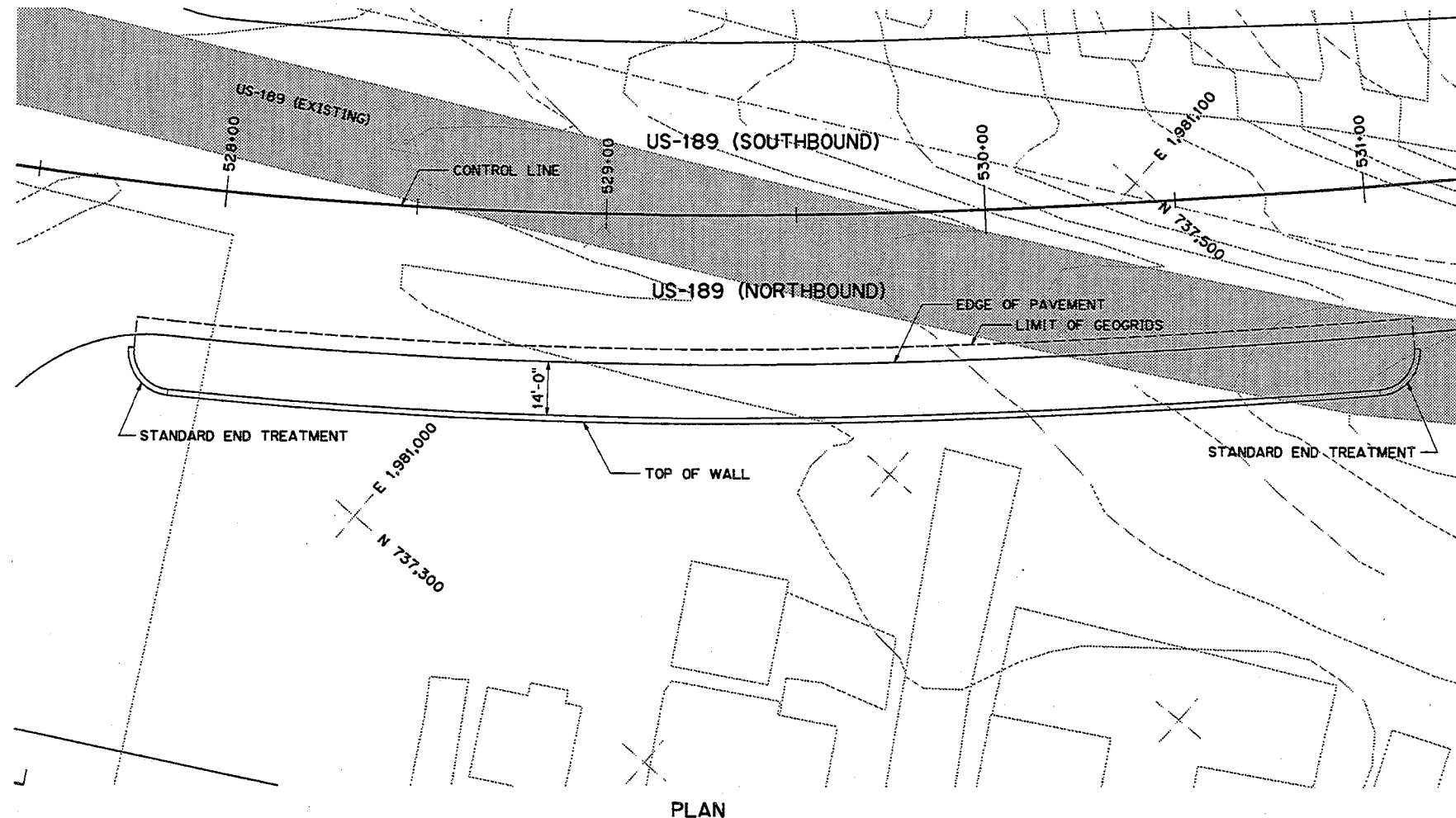
R-297C

SHEET NO. 1

NO.	DATE	DESIGN REV. BY	DATE	REMARKS

ORIGINAL SUBMISSION FOR AUTHORIZATION

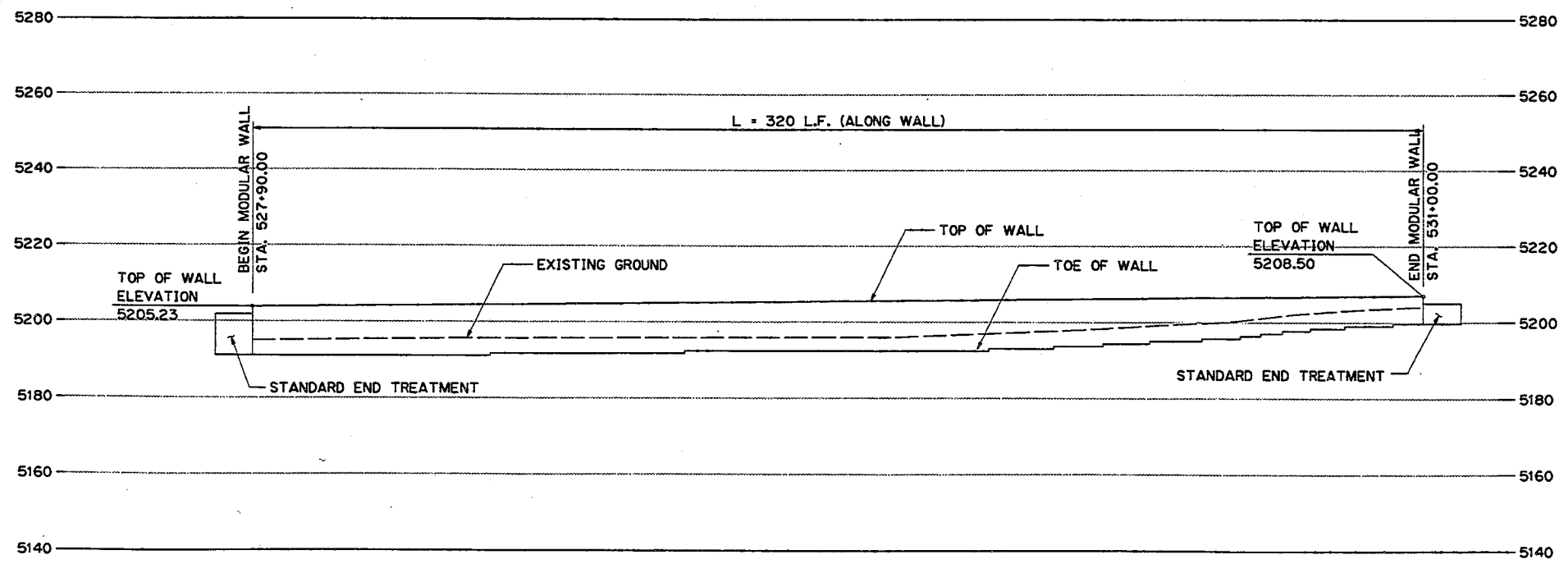




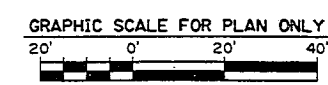
PLAN

NOTES:

1. TOP OF WALL ELEVATION VARIES BASED ON EDGE OF PAVEMENT ELEVATION.
2. TOE OF WALL TO BE 4'-8" BELOW EXISTING GROUND LINE AT FACE OF WALL. STEP TOE OF WALL AS REQUIRED.

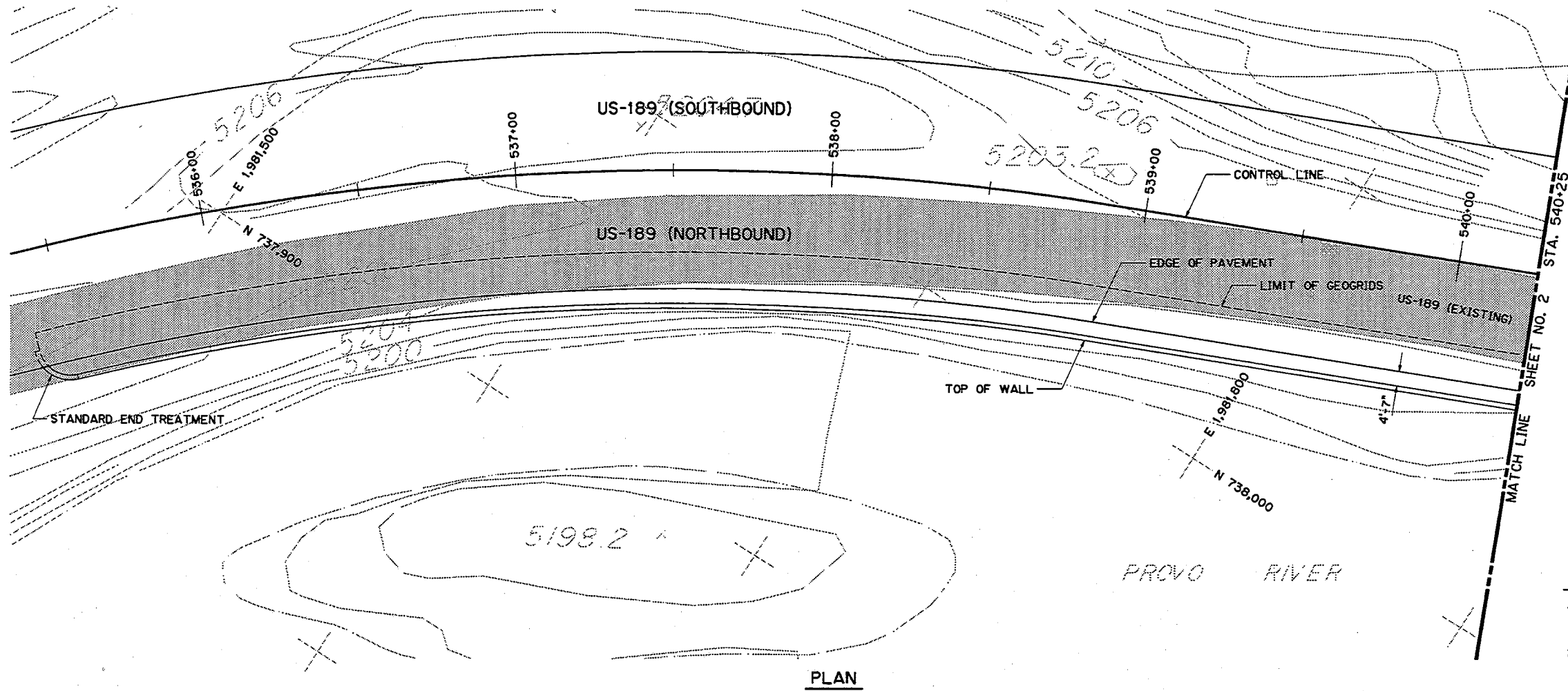


ELEVATION PROJECTED ALONG CONTROL LINE



PARSONS BRINCKERHOFF
 100 YEARS

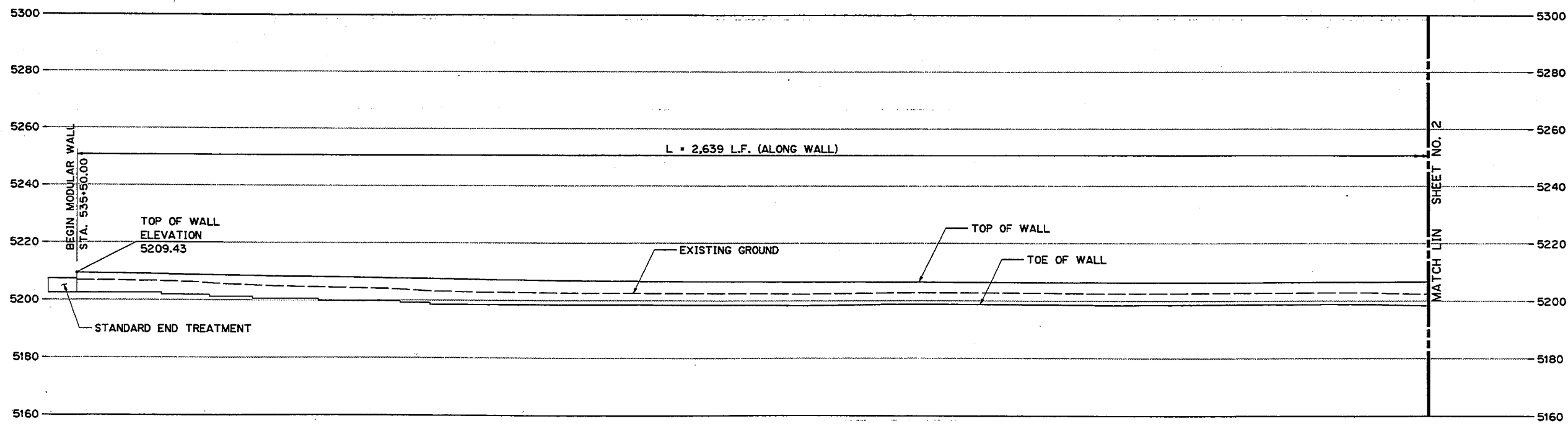
UTAH DEPARTMENT OF TRANSPORTATION REGION 3 - OREM, UTAH STRUCTURES DESIGN		DESIGN MLF 4/95	CHECK LWA 7/95	REVIEW LWA 7/95	DATE
APPROVAL RECOMM. DATE	APPROVED DATE	DESIGN MLF 4/95	CHECK LWA 7/95	REVIEW LWA 7/95	DATE
PROJECT NUMBER	*NH-0189(3)12	QUANT.	MLF 5/95	CHECK LWA 7/95	BY
US-189 PROVO CANYON UPPER FALLS TO WILDWOOD	PLAN AND ELEVATION	PROJECT MANAGER	DATE	CHIEF STRUCTURAL ENGINEER	DATE
R-297D		SHEET NO. 1			



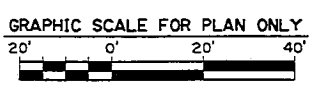
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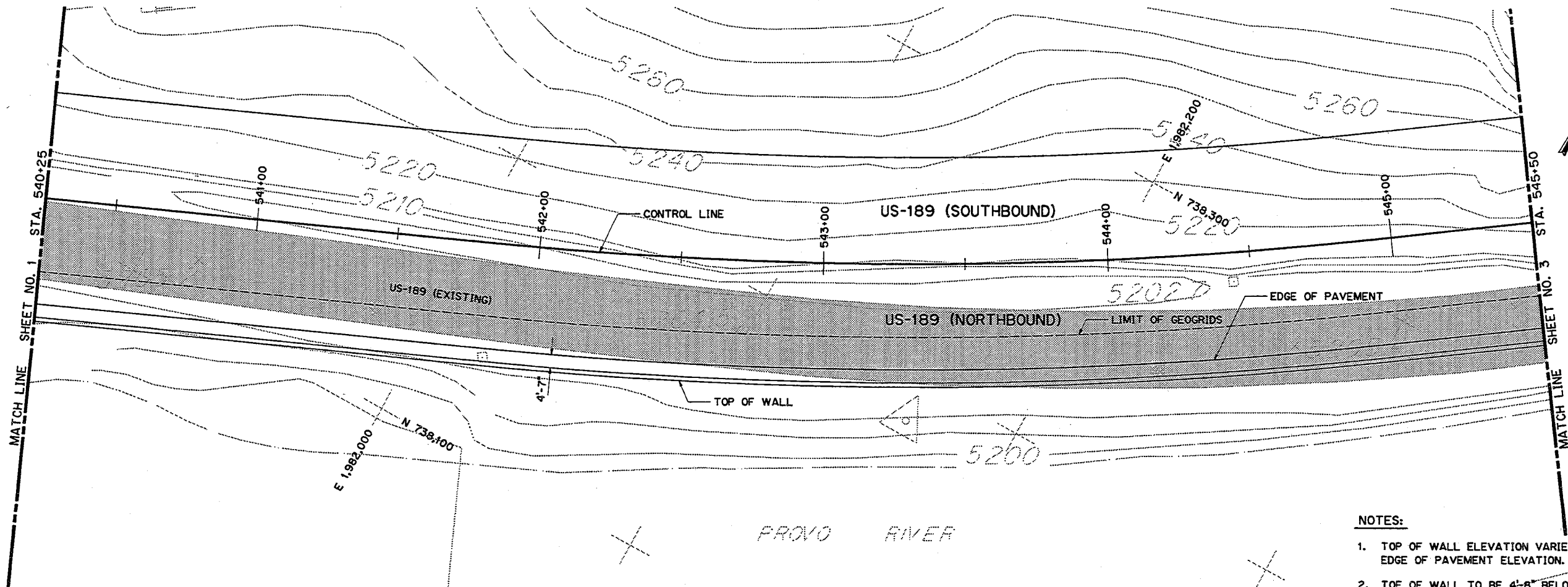
- 1. TOP OF WALL ELEVATION VARIES BASED ON EDGE OF PAVEMENT ELEVATION.
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ELEVATION PROJECTED ALONG CONTROL LINE



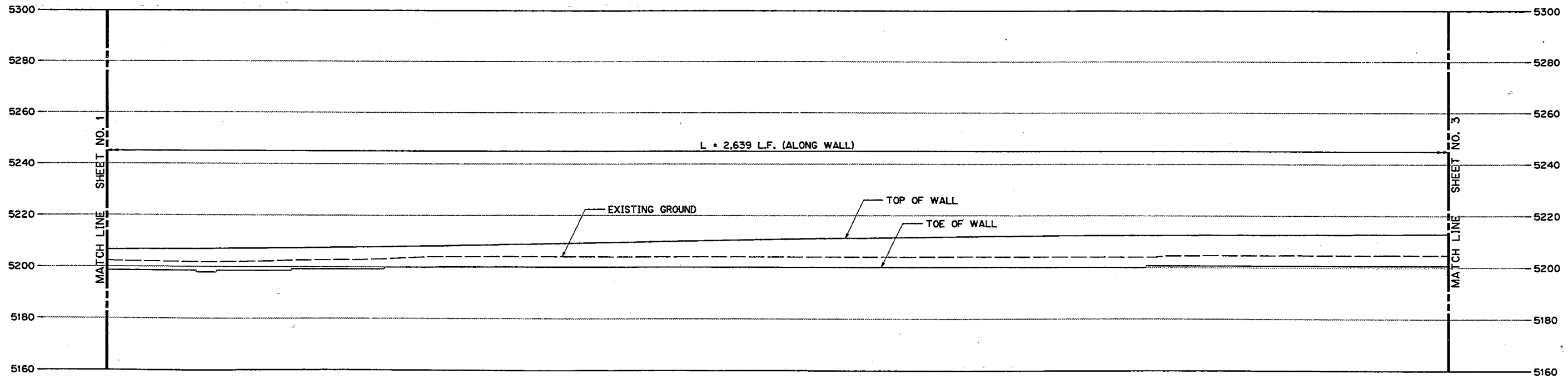
UTAH DEPARTMENT OF TRANSPORTATION REGION 3 - OREM, UTAH STRUCTURES DESIGN			
DESIGN	CHECK	REVIEW	DATE
MLF 4/95	LWA 7/95	LWA 7/95	
PA 4/95	LWA 7/95	LWA 7/95	
MLF 5/95	LWA 7/95	LWA 7/95	
DESIGN	CHECK	REVIEW	DATE
MLF 4/95	LWA 7/95	LWA 7/95	
PA 4/95	LWA 7/95	LWA 7/95	
MLF 5/95	LWA 7/95	LWA 7/95	
APPROVAL	DATE	APPROVED	DATE
REC'D	9/95	<i>L. Brander</i>	
PROJECT NUMBER	*NH-0189(3)12	CHIEF STRUCTURAL ENGINEER	
US-189 PROVO CANYON		UPPER FALLS TO WILDWOOD	
PLAN AND ELEVATION - 1		PROJECT NUMBER	
R-297E		SHEET NO. 1	



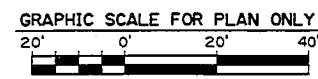
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NOTES:

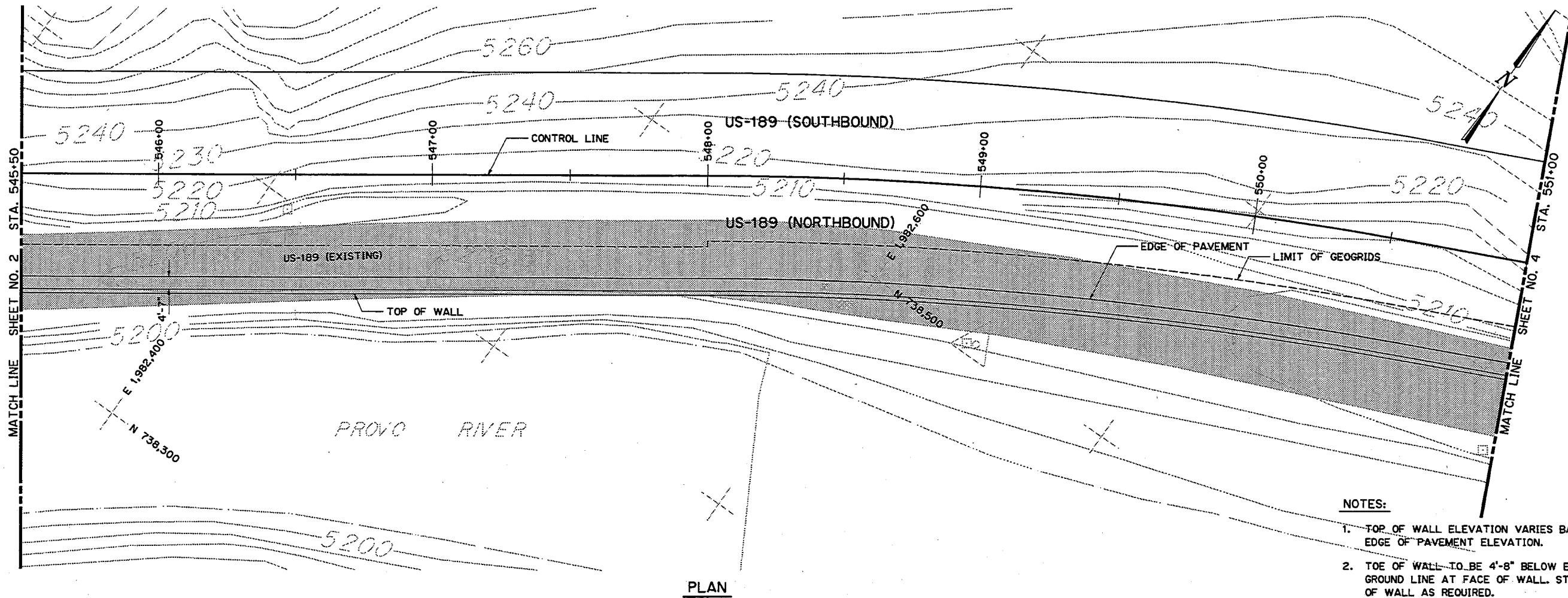
1. TOP OF WALL ELEVATION VARIES BASED ON EDGE OF PAVEMENT ELEVATION.
2. TOE OF WALL TO BE 4'-8" BELOW EXISTING GROUND LINE AT FACE OF WALL. STEP TOE OF WALL AS REQUIRED.



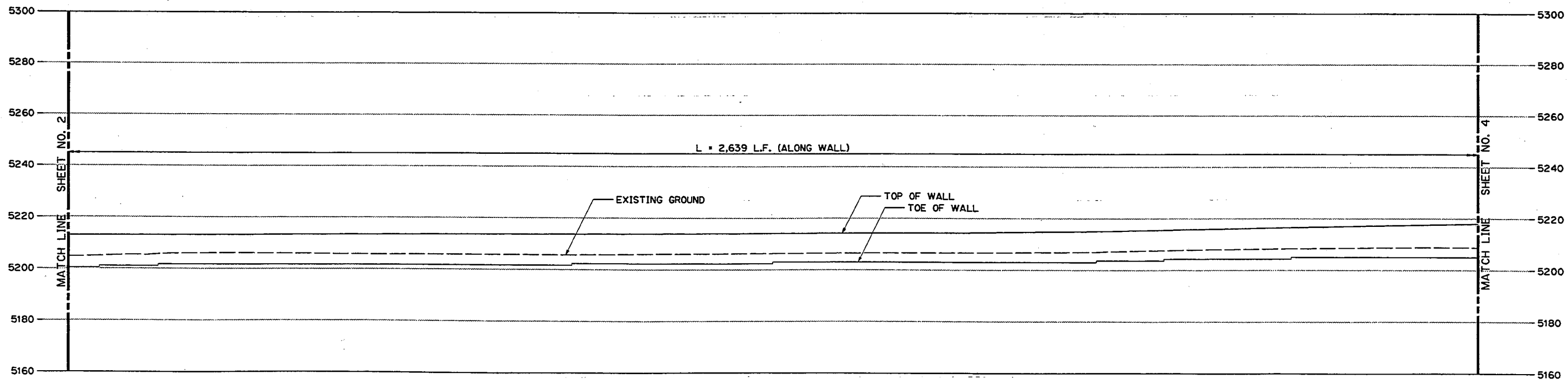
ELEVATION PROJECTED ALONG CONTROL LINE



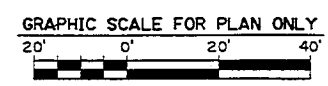
UTAH DEPARTMENT OF TRANSPORTATION REGION 3 - OREM, UTAH STRUCTURES DESIGN		DESIGN M.L.F. 4/95	CHECK LWA 7/95	REVIEW
APPROVAL RECORDAL DATE 9/95	DESIGNER M.L.F. 4/95	CHECK PA 4/95	CHECK LWA 7/95	DATE
PROJECT NUMBER *NH-0189(3)12	APPROVED DATE	QUANT. M.L.F. 5/95	CHECK LWA 5/95	BY
US-189 PROVO CANYON	UPPER FALLS TO WILDWOOD	PLAN AND ELEVATION - 2		
R-297E	SHEET NO. 2			



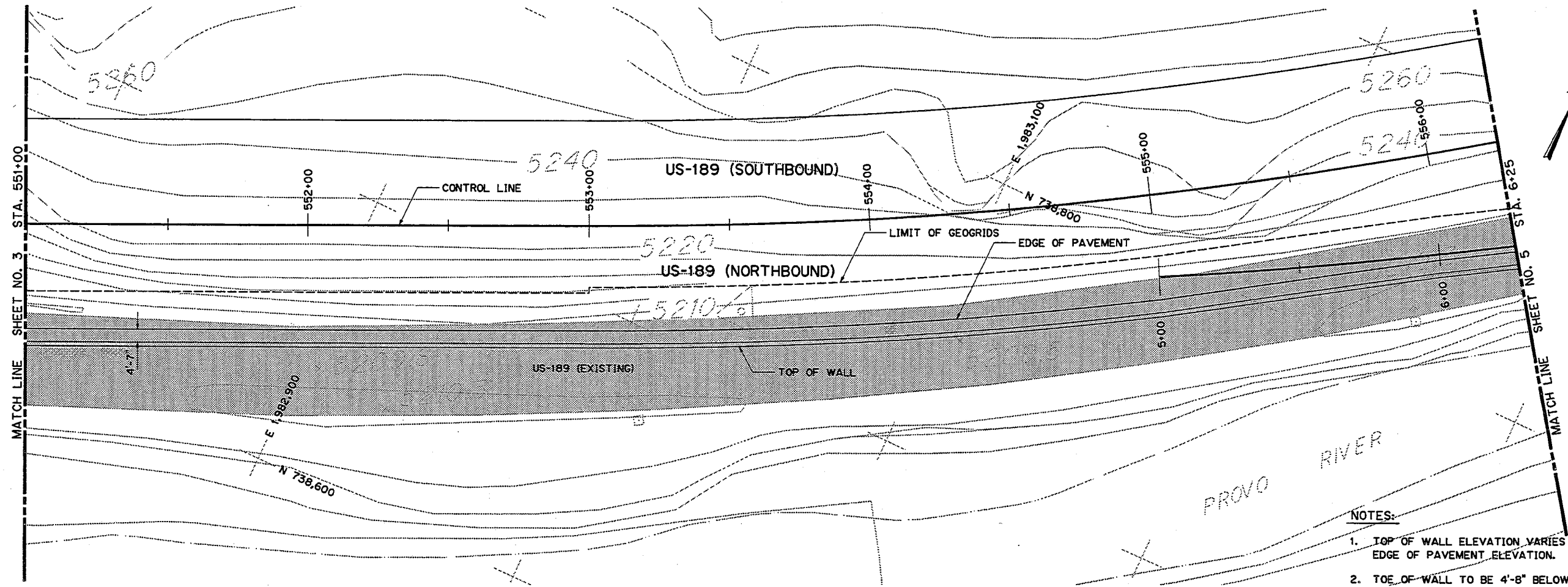
- NOTES:**
1. TOP OF WALL ELEVATION VARIES BASED ON EDGE OF PAVEMENT ELEVATION.
 2. TOE OF WALL TO BE 4'-8" BELOW EXISTING GROUND LINE AT FACE OF WALL. STEP TOE OF WALL AS REQUIRED.



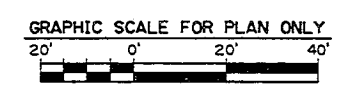
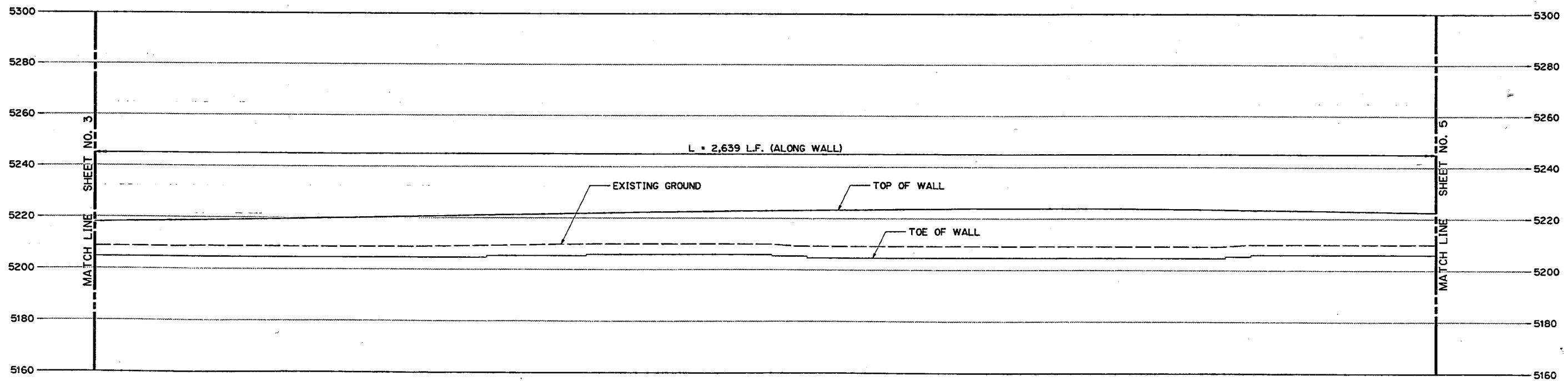
ELEVATION PROJECTED ALONG CONTROL LINE



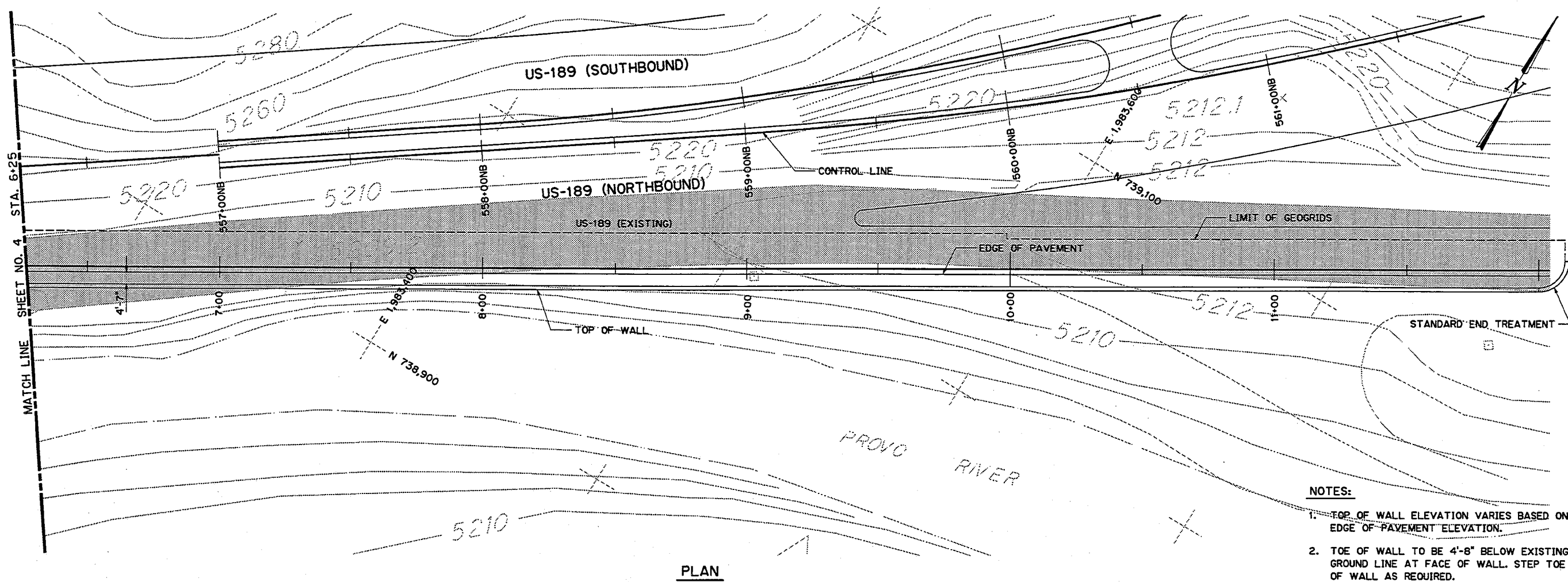
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APPROVED: [Signature]	DATE: []	QUANT. M.L.F. 5/95	CHECKER: LWA 7/05	BY: []
US-189 PROVO CANYON UPPER FALLS TO WILDWOOD PLAN AND ELEVATION - 3	PROJECT NUMBER: *NH-0189(3)12	R-297E		
SHEET NO. 3				REVISIONS



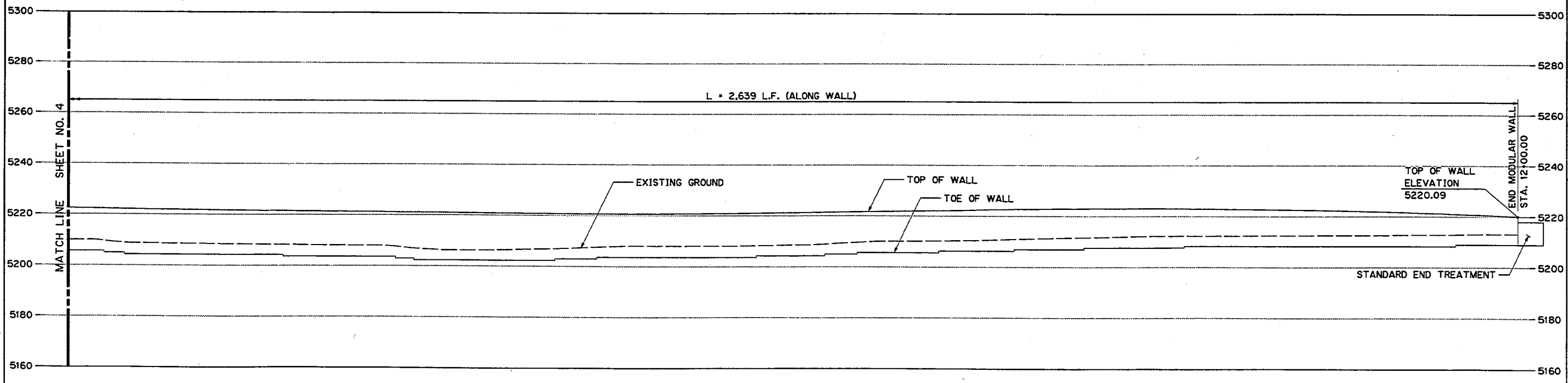
- NOTES:
- TOP OF WALL ELEVATION VARIES BASED ON EDGE OF PAVEMENT ELEVATION.
 - TOE OF WALL TO BE 4'-8" BELOW EXISTING GROUND LINE AT FACE OF WALL. STEP TOE OF WALL AS REQUIRED.



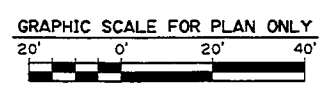
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US-189 PROVO CANYON UPPER FALLS TO WILDWOOD		PROJECT NUMBER *NH-0189(312)	QUANT. MLF 5/95	BY LWA 7/95	ORIGINAL SUBMISSION FOR AUTHORIZATION
R-297E		SHEET NO. 4			



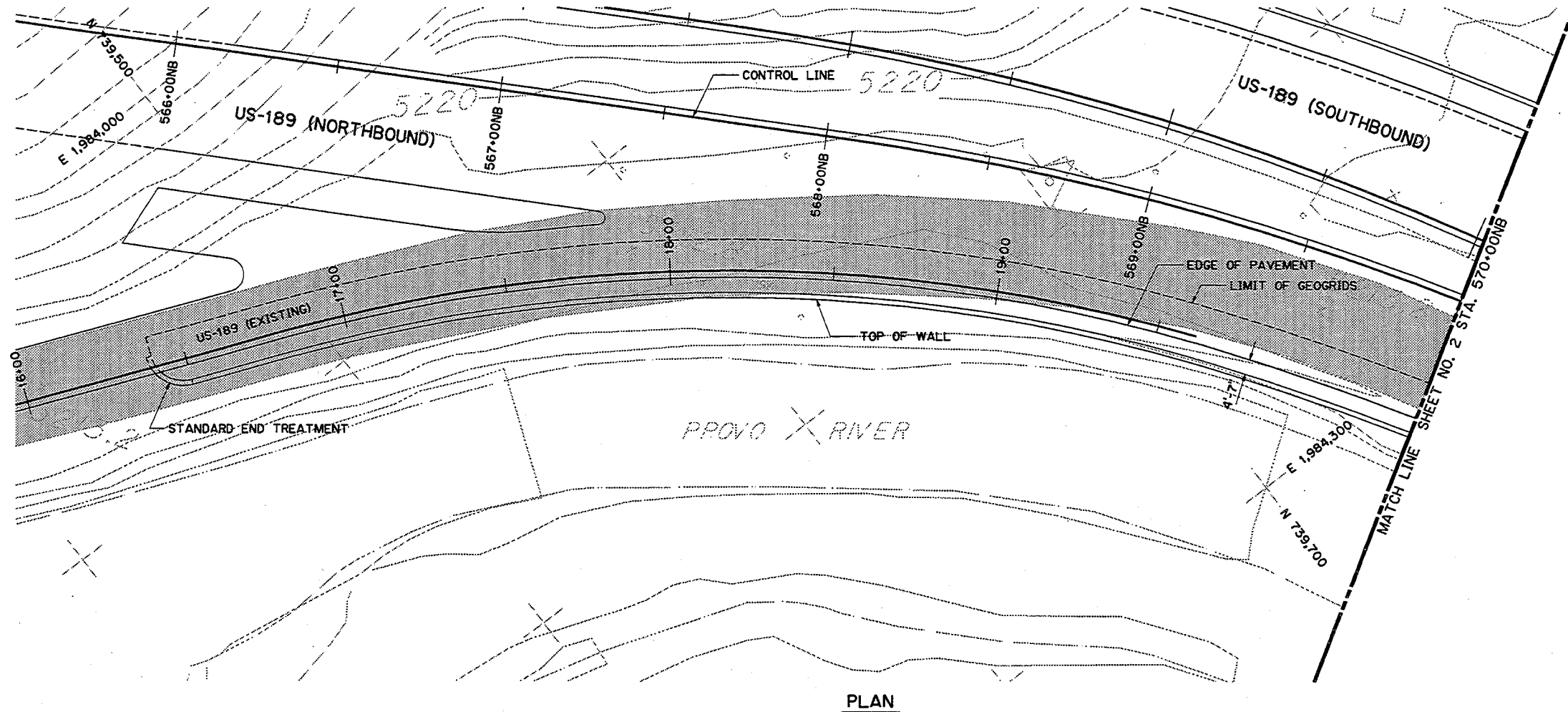
- NOTES:**
1. TOP OF WALL ELEVATION VARIES BASED ON EDGE OF PAVEMENT ELEVATION.
 2. TOE OF WALL TO BE 4'-8" BELOW EXISTING GROUND LINE AT FACE OF WALL. STEP TOE OF WALL AS REQUIRED.



ELEVATION PROJECTED ALONG CONTROL LINE



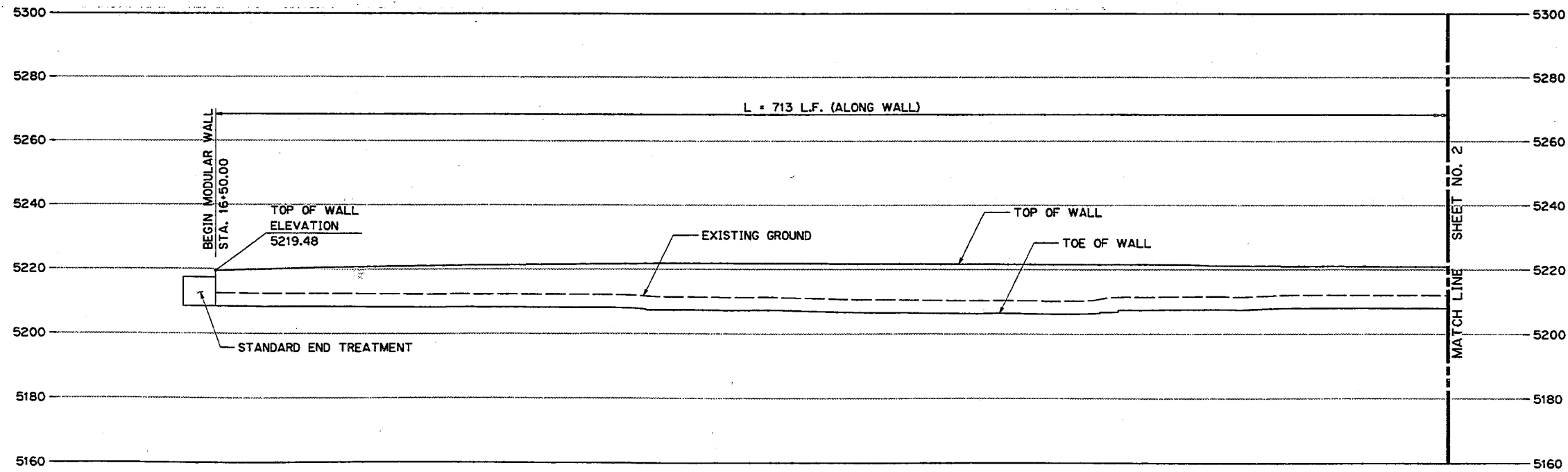
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QUANT. MLF 5/95	DATE	CHECK LWA 7/95	DATE
APPROVAL REC'D <i>gls</i> <i>Advanced</i>	DATE	APPROVED DATE	CHIEF STRUCTURAL ENGINEER
PROJECT NUMBER	PROJECT NUMBER	PROJECT NUMBER	PROJECT NUMBER
US-189 PROVO CANYON	UPPER FALLS TO WILDWOOD	PLAN AND ELEVATION - 5	R-297E
PROJECT NUMBER	*NH-0189(3)12		SHEET NO. 5



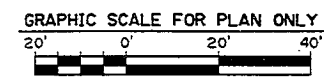
PLAN

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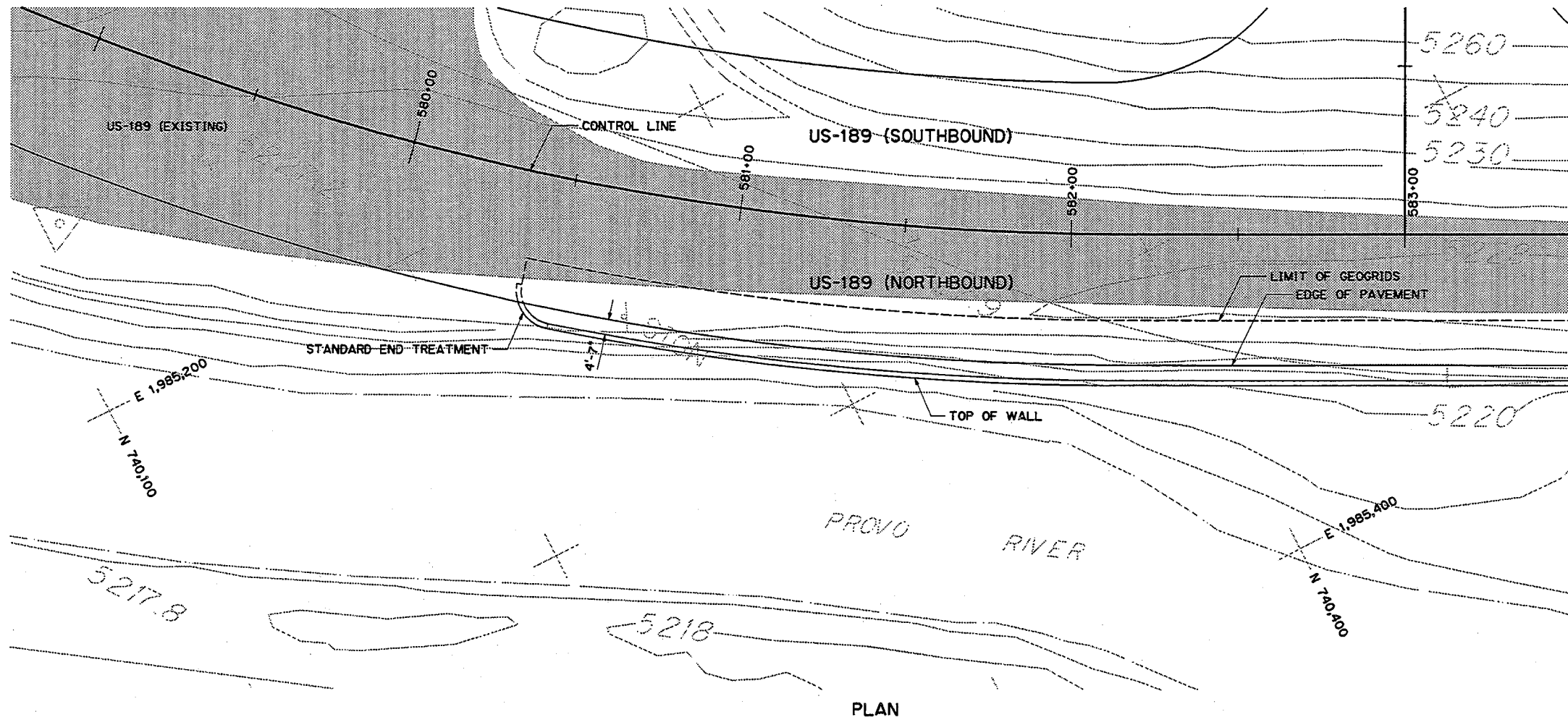
- TOP OF WALL ELEVATION VARIES BASED ON EDGE OF PAVEMENT ELEVATION.
- TOE OF WALL TO BE 4'-8" BELOW EXISTING GROUND LINE AT FACE OF WALL. STEP TOE OF WALL AS REQUIRED.



ELEVATION PROJECTED ALONG CONTROL LINE



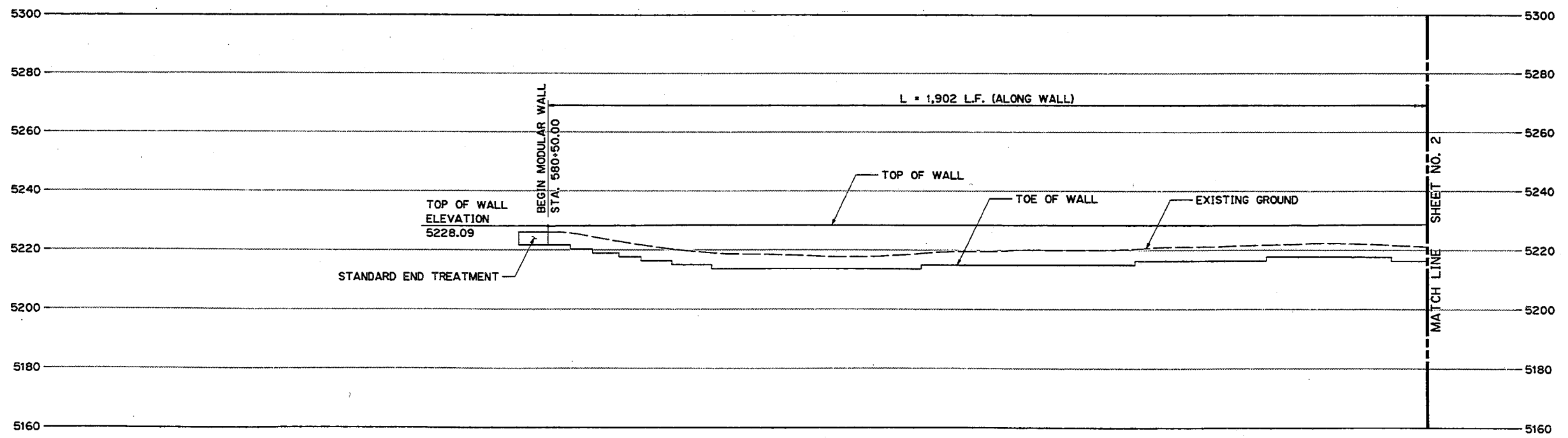
UTAH DEPARTMENT OF TRANSPORTATION		REGION 3 - OREM, UTAH		STRUCTURES DESIGN	
US-189 PROVO CANYON	UPPER FALLS TO WILDWOOD	PLAN AND ELEVATION - 1	PROJECT NUMBER *NH-0189(3)12	APPROVAL DATE 9/95	PROJECT MANAGER
				APPROVED DATE	CHIEF STRUCTURAL ENGINEER
				CHECK LWA 7/95	DATE
				CHECK LWA 7/95	DATE
				CHECK LWA 7/95	DATE
				CHECK MLF 4/95	DATE
				CHECK PA 4/95	DATE
				CHECK MLF 5/95	DATE
				REVIEW	DATE
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				REMARKS	DATE
				ORIGINAL SUBMISSION FOR AUTHORIZATION	DATE
				REVISIONS	DATE



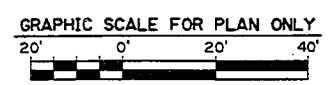
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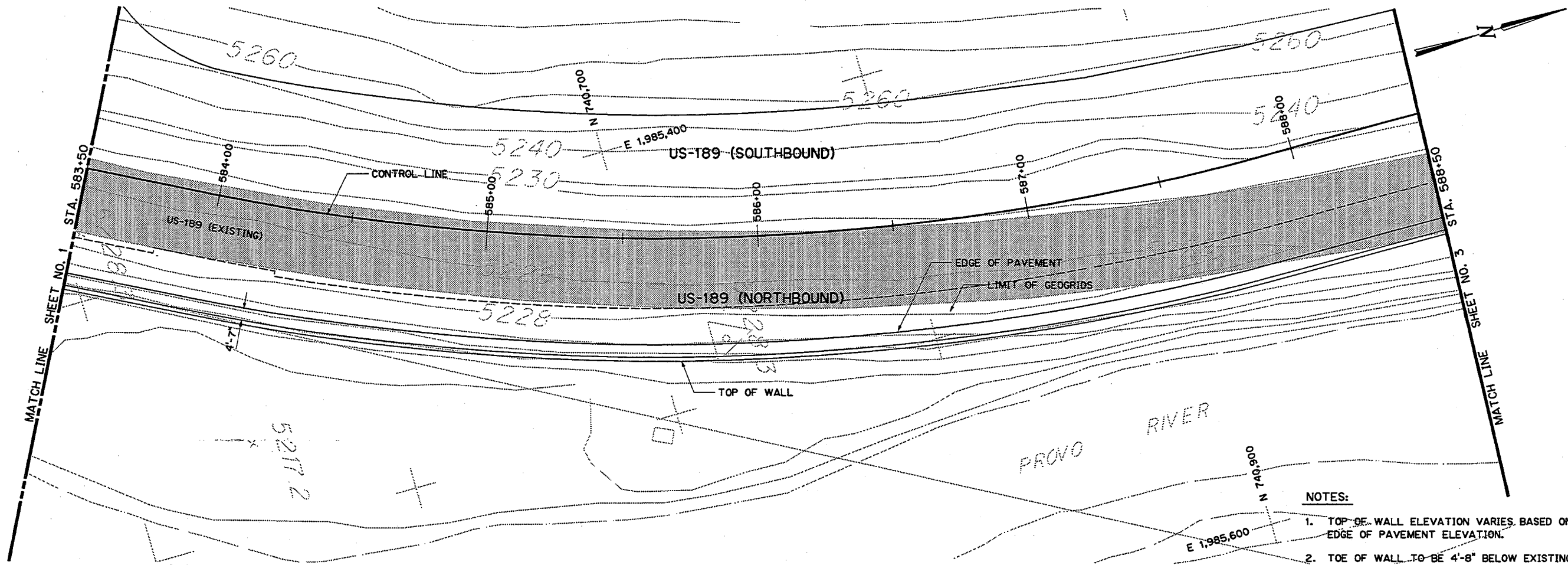
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2. TOE OF WALL TO BE 4'-8" BELOW EXISTING GROUND LINE AT FACE OF WALL. STEP TOE OF WALL AS REQUIRED.



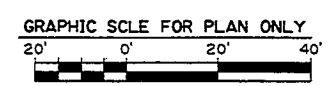
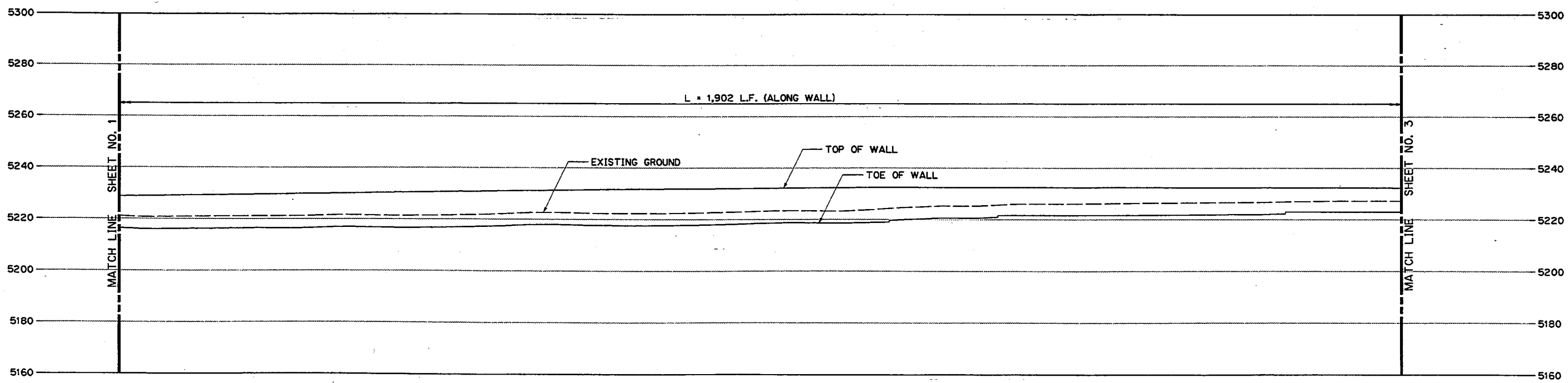
ELEVATION PROJECTED ALONG CONTROL LINE



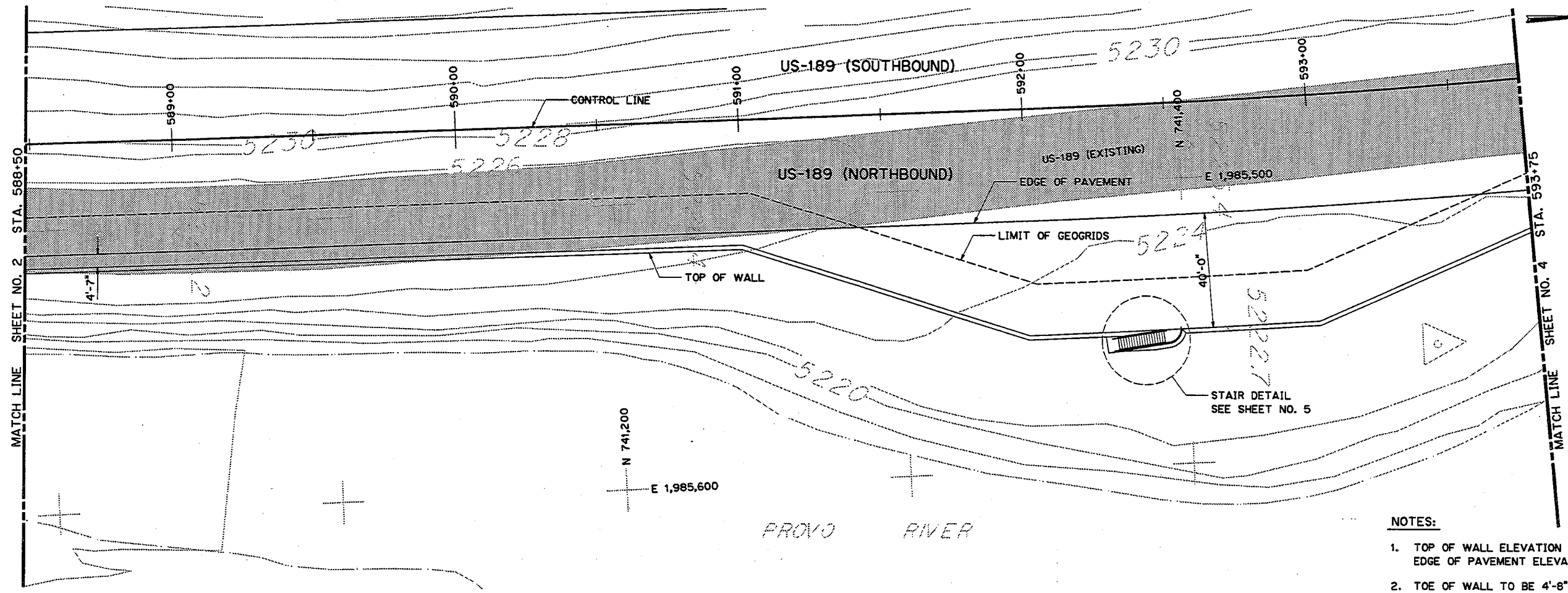
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US-189 PROVO CANYON		UPPER FALLS TO WILDWOOD		PLAN AND ELEVATION - 1		PROJECT NUMBER *NH-0189(3)12	
APPROVAL RECORDAL DATE 9/95		DESIGN M.L.F. 4/95		CHECK LWA 7/95		REVIEW	
APPROVED DATE		DRAWN PA 4/95		CHECK LWA 7/95		DATE	
PROJECT NUMBER		QUANT. M.L.F. 5/95		CHECK LWA 7/95		BY	
R-297G		SHEET NO. 1		ORIGINAL SUBMISSION FOR AUTHORIZATION		REVISIONS	
NO.		DATE		DESIGN REV. BY		MARKS	
NO.		DATE		DESIGN COR. BY		REMARKS	



- NOTES:
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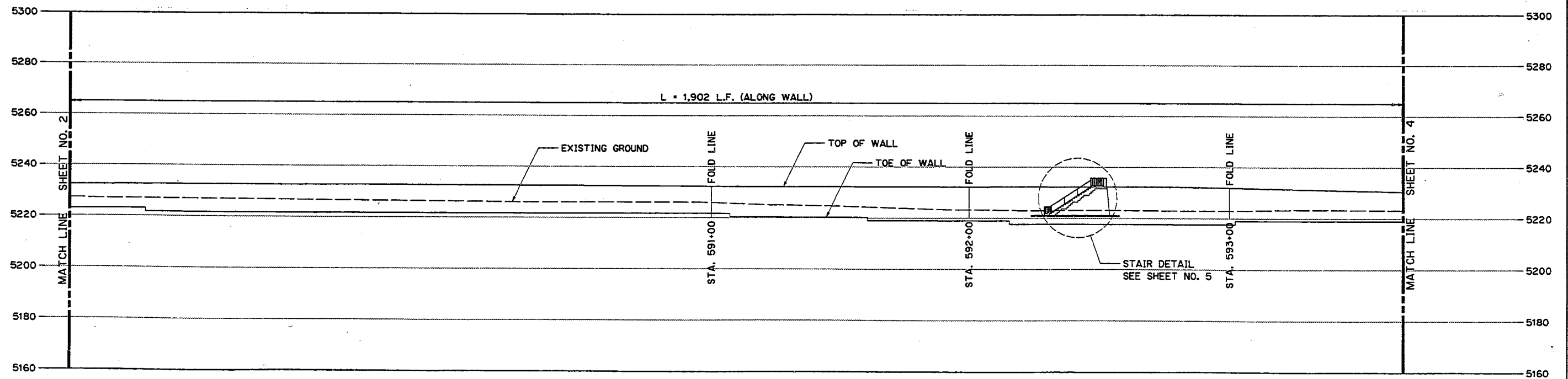
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APPROVAL RECOMM. DATE: 9/95	PROJECT MANAGER: [Signature]	DRAWN: PA 4/95	CHECK: LWA 7/95	DATE: []
APPROVED: [Signature]	DATE: []	QUANT. MLF 5/95	CHECK: LWA 7/95	BY: []
US-189 PROVO CANYON UPPER FALLS TO WILDWOOD		PLAN AND ELEVATION - 2		
PROJECT NUMBER: *NH-0189(3)12		R-297G		
SHEET NO. 2		REVISIONS		



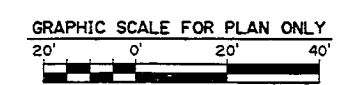
PLAN

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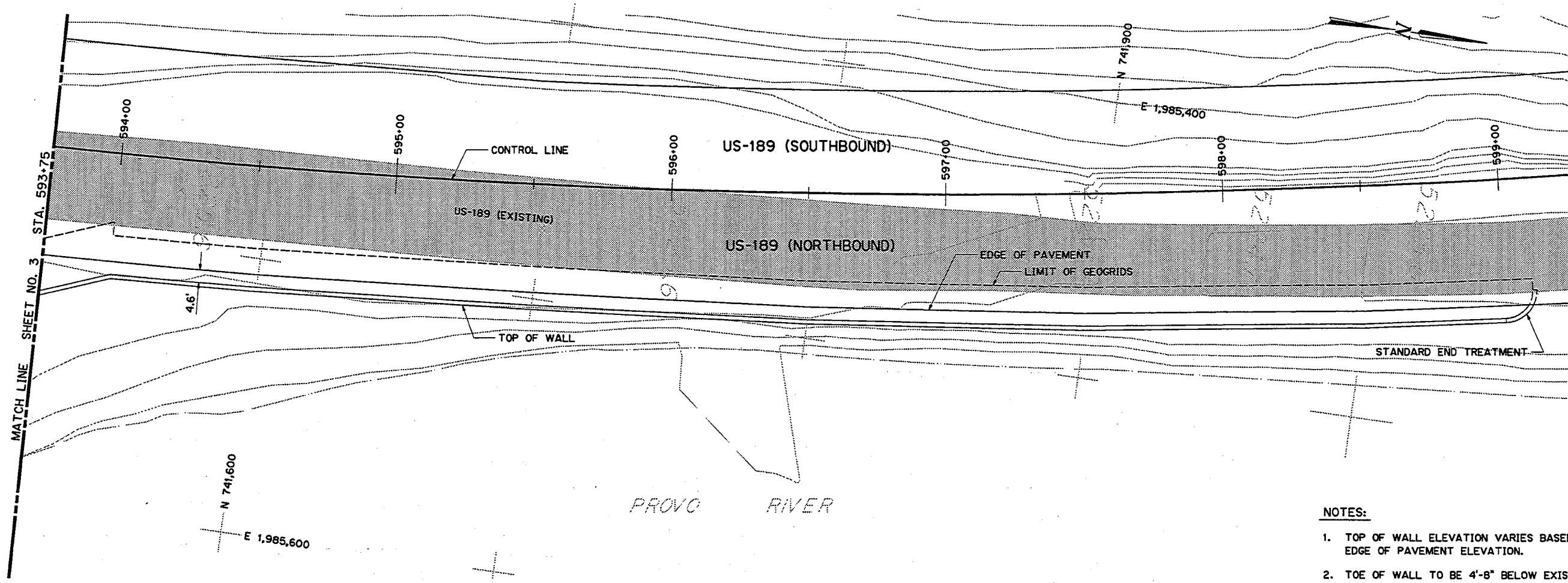
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ELEVATION PROJECTED ALONG CONTROL LINE



UTAH DEPARTMENT OF TRANSPORTATION REGION 3 - OREM, UTAH STRUCTURES DESIGN		DESIGN MILF 4/95	CHECK LWA 7/95	REVIEW DATE	REMARKS
APPROVAL REGIONAL DATE	APPROVED DATE	DRAWN PA 4/95	CHECK LWA 7/95	DATE	REVISIONS
PROJECT NUMBER	*NH-0189(3)12	QUANT.	MLF 5/95	CHECK LWA 7/95	BY
US-189 PROVO CANYON UPPER FALLS TO WILDWOOD PLAN AND ELEVATION - 3					
R-297G					
SHEET NO.	3				

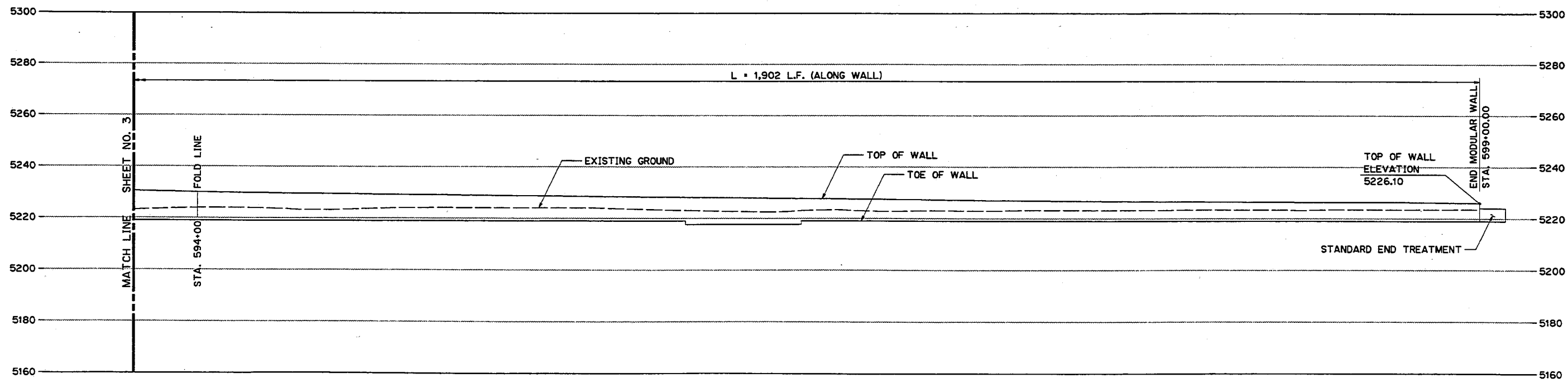


PROVO RIVER

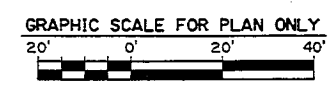
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NOTES:

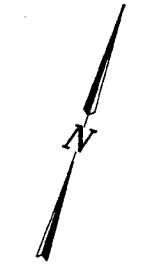
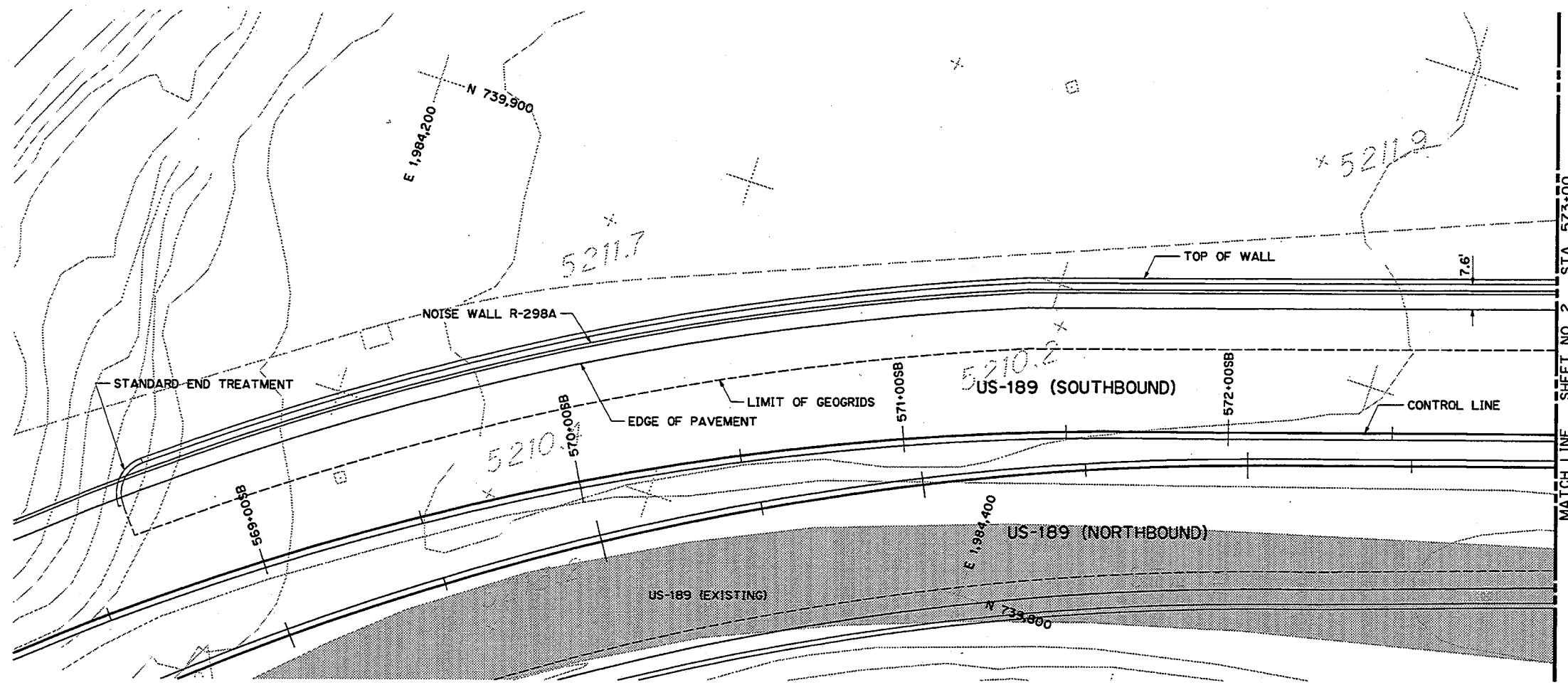
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ELEVATION PROJECTED ALONG CONTROL LINE



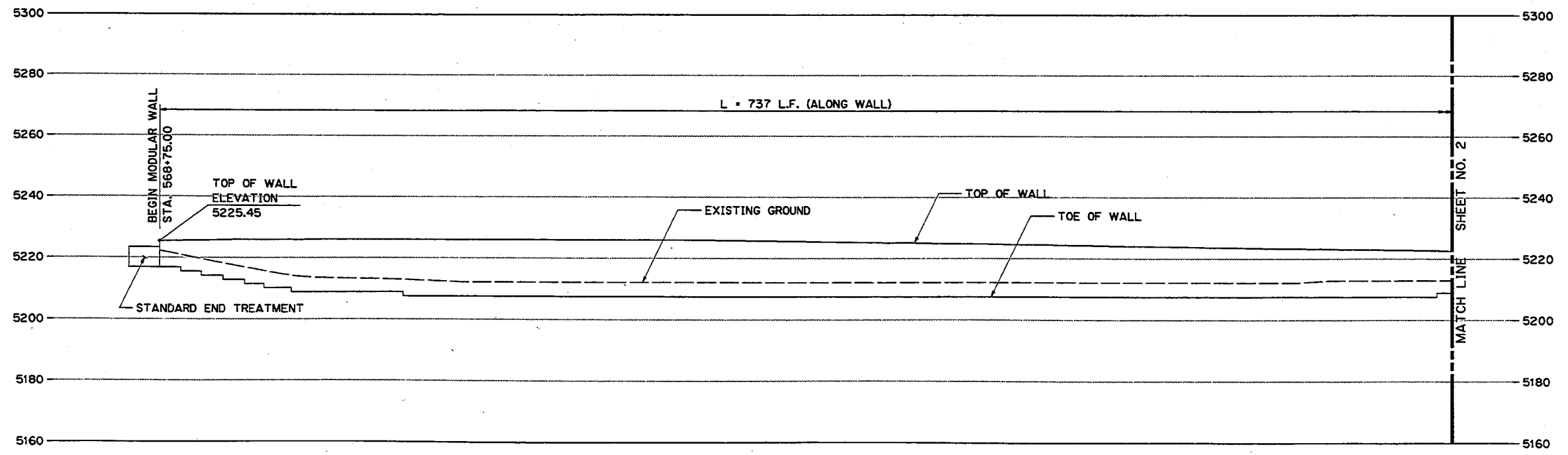
UTAH DEPARTMENT OF TRANSPORTATION REGION 3 - OREM, UTAH STRUCTURES DESIGN		DESIGN MLF 3/95	CHECK LWA 7/95	REVIEW LWA 7/95
APPROVAL RECOMM.	DATE 9/95	DESIGN PA 3/95	CHECK LWA 7/95	DATE
PROJECT NUMBER	*NH-0189(3)12	QUANT.	MLF 5/95	CHECK LWA 7/95
US-189 PROVO CANYON UPPER FALLS TO WILDWOOD	PLAN AND ELEVATION - 4	APPROVED	DATE	REVISIONS
R-297G		SHEET NO. 4		



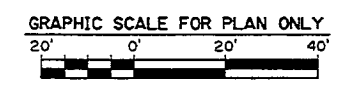
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PLAN



ELEVATION PROJECTED ALONG CONTROL LINE



UTAH DEPARTMENT OF TRANSPORTATION REGION 3 - OREM, UTAH STRUCTURES DESIGN		DESIGN MLF 4/95	CHECK LWA 7/95	REVIEW
APPROVAL RECORDING DATE 9/95	DATE 7/95	PA 4/95	CHECK LWA 7/95	DATE
APPROVED DATE	DATE	QUANT. MLF 5/95	CHECK LWA 7/95	BY
US-189 PROVO CANYON	UPPER FALLS TO WILDWOOD	PLAN AND ELEVATION - 1	PROJECT NUMBER *NH-0189(3)12	R-297H
SHEET NO. 1				REVISIONS
ORIGINAL SUBMISSION FOR AUTHORIZATION				REMARKS
NO. DATE				DATE
DESIGN REV. BY				DATE
MAPS CORP. BY				DATE
PARCELS AFFECTED				DATE

