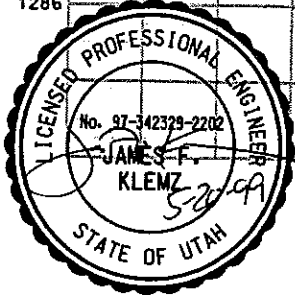
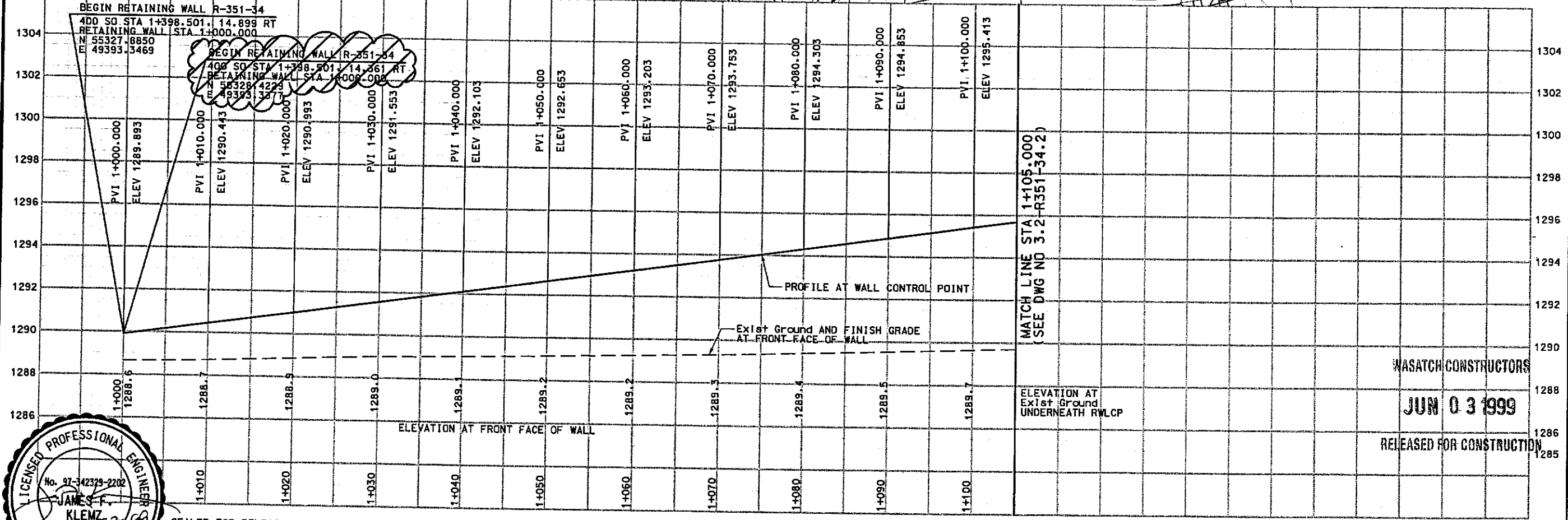
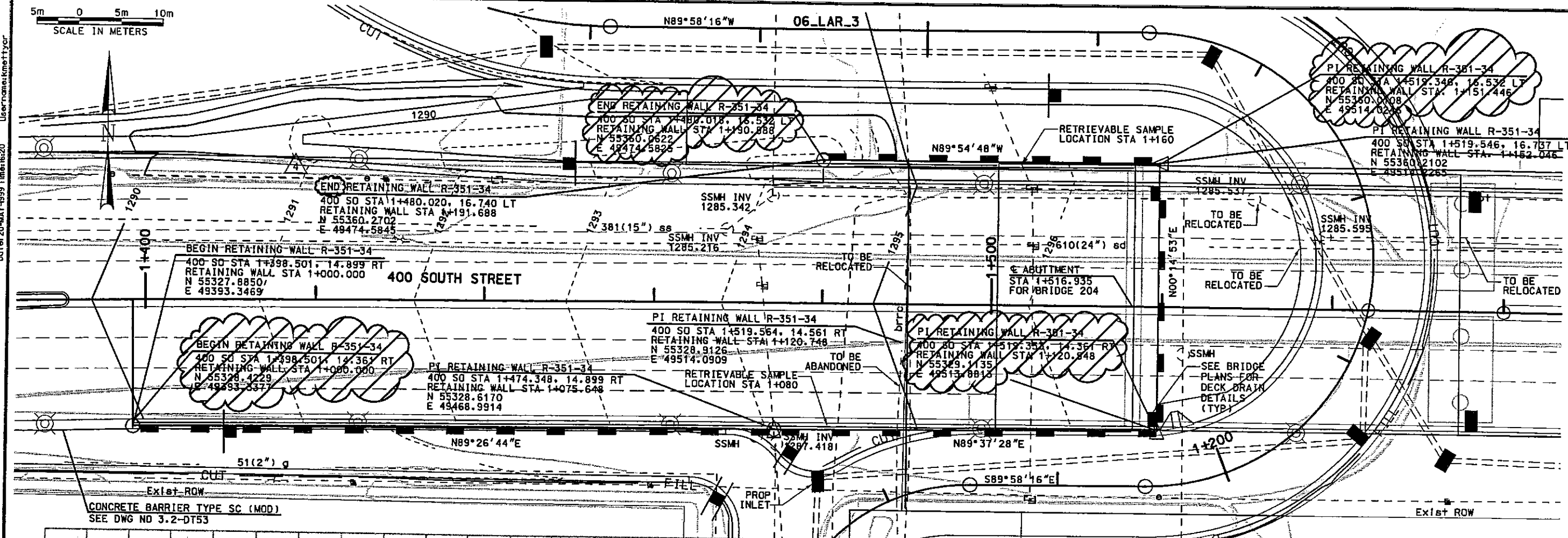


5m 0 5m 10m
SCALE IN METERS

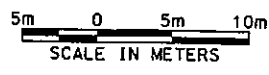
Date: 20-MAY-1999 Time: 16:20 User: rone.kimmettyer



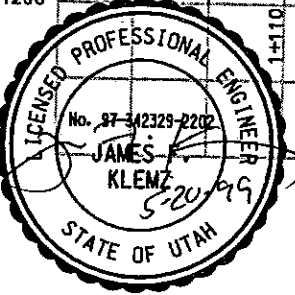
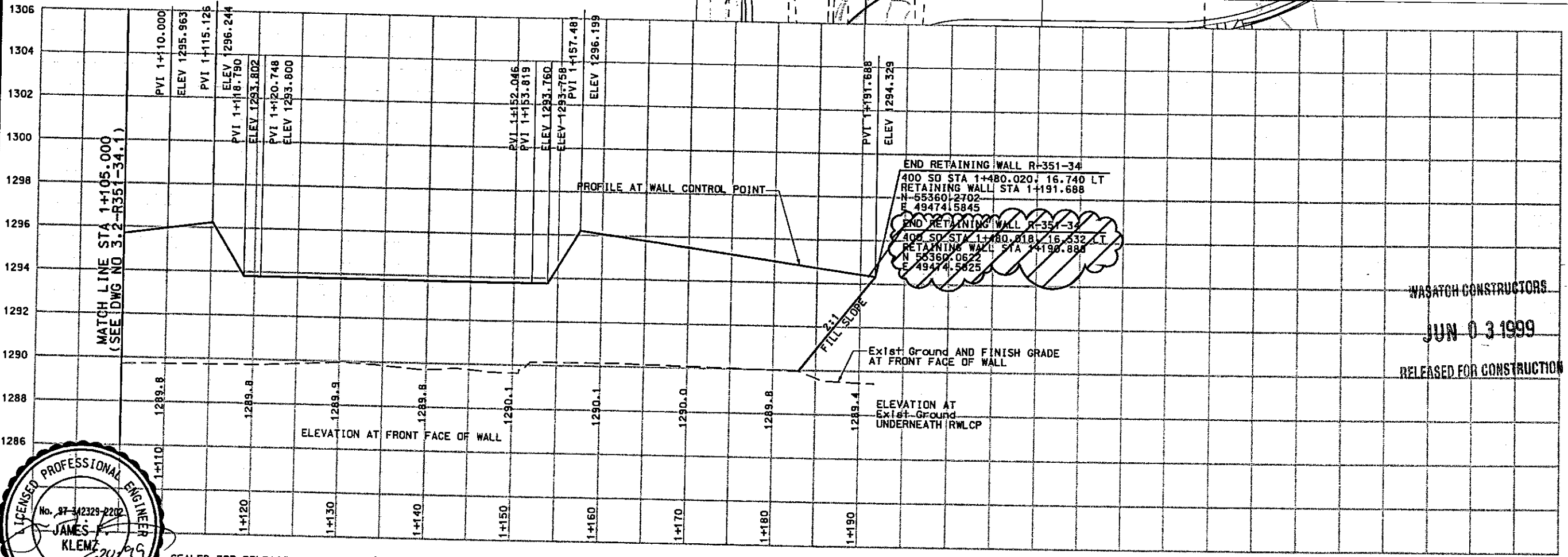
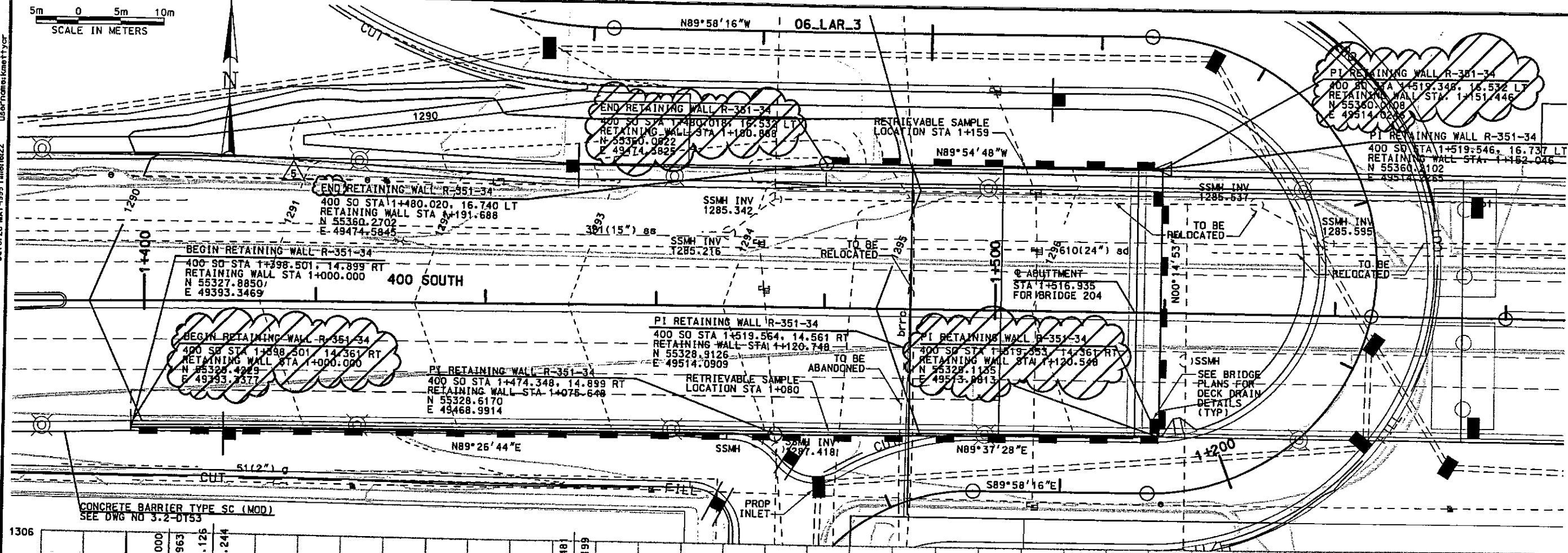
SEALED FOR RELEASE NO. 4 ONLY.

WALL R-351-34

APPROVED FOR CONSTRUCTION		DESCRIPTION	
NO.	DATE		
A	02/19/98	RELEASE FOR USE STAGE 1 ONLY	
A	11/20/98	REMOVE NFC CLOUDS	
A	01/13/99	RELEASE FOR 2ND STAGE CONSTRUCTION ONLY	
A	05/21/99	FINAL SUBMITTAL COMMENTS	
UTAH DEPARTMENT OF TRANSPORTATION			
SVERDRUP/DE LEUW		CHECK RT	11/20/98
		CHECK MGC	11/20/98
		CHECK SVD	11/20/98
		CHECK MGC	11/20/98
		CHECK	3212421
I-15 CORRIDOR RECONSTRUCTION			
SITUATION & LAYOUT			
SECTION 3.2			
APPROVAL DATE		DATE	
11/20/98		11/20/98	
MARVIN COOK		KEITH SABOL	
PROJECT DESIGN ENGINEER		SECTION MANAGER	
WASATCH CONSTRUCTORS			
JUN 03 1999			
RELEASED FOR CONSTRUCTION			
PROJECT NUMBER #SP-15-7(135)296			
SALT LAKE COUNTY			
DWG. NO. 3.2-R351-34.1			
SHT. 1 OF 20			



Date: 20-MAY-1999 Time: 16:22 User: rcmstnmettyr



SEALED FOR RELEASE NO. 5 ONLY.

WALL R-351-34

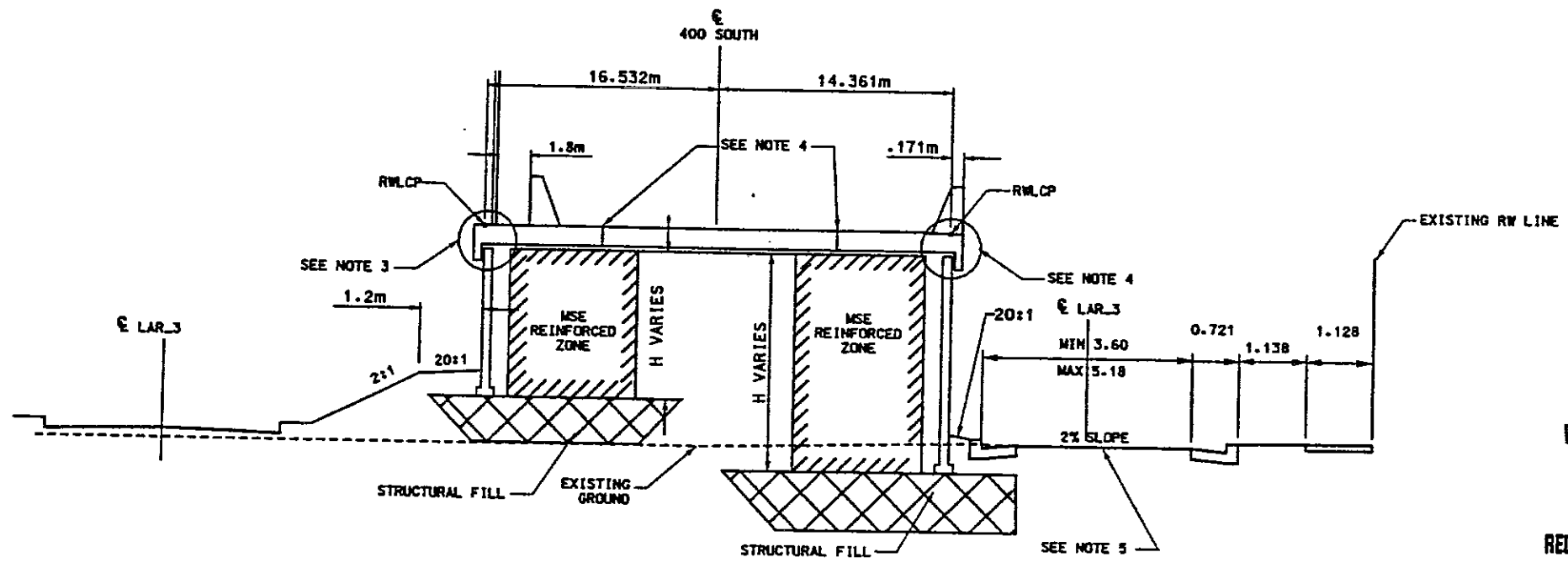
APPROVED FOR CONSTRUCTION		DESCRIPTION	
NO.	DATE	RELEASE FOR CONSTRUCTION ABUTMENT MODIFICATION AND 2ND STAGE USE ONLY	
1	10/27/98	REMOVE N/C CLOUDS	
2	11/20/98	REMOVE N/C CLOUDS	
3	01/13/99	RELEASE FOR 2ND STAGE CONSTRUCTION ONLY	
4	05/21/99	FINAL SUBMITTAL COMMENTS	
UTAH DEPARTMENT OF TRANSPORTATION		DESIGN JFA 11/20/98	CHECK MC 11/20/98
SVERDRUP/DE LEUW		DRAWN SVD 11/20/98	CHECK MC 11/20/98
I-15 CORRIDOR RECONSTRUCTION		QUANT.	3212421
SITUATION & LAYOUT		SECTION 3.2	
PROJECT NUMBER #SP-15-7(135)296		APPROVAL DATE	DATE
MARVIN COOK PROJECT DESIGN ENGINEER		APPROVED 11/20/98	DATE
KEITH SABOL SECTION MANAGER		APPROVED 11/20/98	DATE
SALT LAKE COUNTY		DWG. NO. 3.2-R351-34.2	
SHT. 2 OF 20			

WASATCH CONSTRUCTORS
 JUN 03 1999
 RELEASED FOR CONSTRUCTION

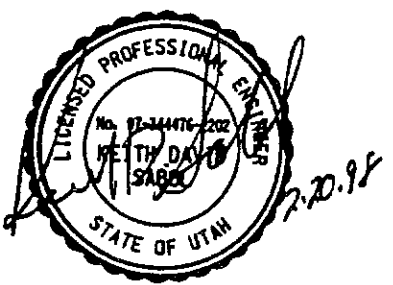
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RETAINING WALL DETAILS
WALL R-351-34
2 STAGE MSE

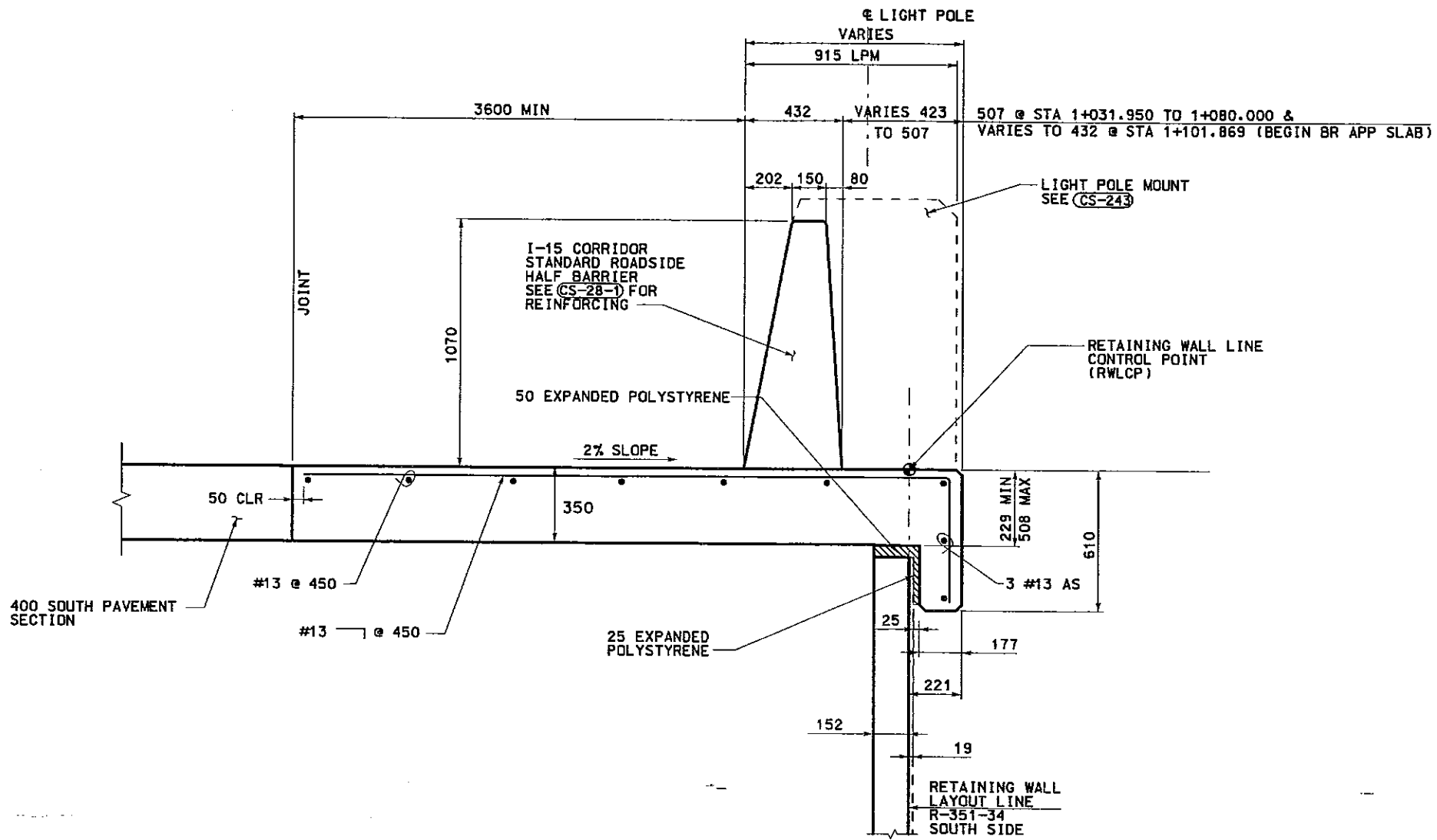


WASATCH CONSTRUCTORS
FEB 24 1998
RELEASED FOR CONSTRUCTION



- NOTES:**
- OVEREXCAVATE EXISTING SOILS AS REQUIRED. REFILL EXCAVATION WITH STRUCTURAL FILL AS PER CORRIDOR STANDARD SPECIFICATION 220-2.
 - CONSTRUCT 0.3m CLAY CAP WITH LOW PLASTIC SILTY CLAY AS PER CORRIDOR STANDARD SPECIFICATION.
 - FOR COPING DETAILS SEE CORRIDOR STANDARD PLAN CS-29.
 - FOR COPING DETAIL SEE PLAN SHEET 3.2-R351-34.4
 - FOR MOMENT SLAB LOCATION SEE ROADWAY DWG NO. 3.2-RD17
 - FOR LOCAL ACCESS ROAD DETAILS SEE ROADWAY PLAN SHEET 3.2-RD17.

APPROVED FOR CONSTRUCTION	NO.	DATE	DESCRIPTION
	Δ	02/18/98	RELEASE FOR USE STAGE 1 ONLY
UTAH DEPARTMENT OF TRANSPORTATION	SVERRUP/DE LEUW		3212418
	DESIGN	CHECK	CHECK
I-15 CORRIDOR RECONSTRUCTION	TYPICAL SECTION		SECTION 3.2
	PROJECT NUMBER		#SP-15-7(135)296
SALT LAKE COUNTY		DWS. NO. 3.2-R351-34.3	
SHT. 3		OF 17	

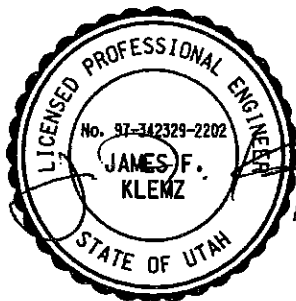


MSE TWO STAGE WITH LIGHT POLE MOUNT & BARRIER ON MOMENT SLAB
WALL R-351-34 SOUTH SIDE
 NTS

WASATCH CONSTRUCTORS
 NOV 24 1998
 RELEASED FOR CONSTRUCTION

NOTES

1. 50mm MINIMUM COVER OVER REINFORCING
2. USE PCC $f'c=27.5$ MPa (4000 PSI) FOR MOMENT SLAB
3. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED
4. LOCATE TRANSVERSE CONSTRUCTION JOINTS AT A MINIMUM 16 METER SPACING



APPROVED FOR CONSTRUCTION	
NO.	DATE
A	11/13/98

UTAH DEPARTMENT OF TRANSPORTATION

SVERDRUP/DE LEUW	
DESIGN	CHECK
RH 11/13/98	SS 11/13/98
MJS 11/13/98	CY 11/13/98
KEITH SABEL	SECTION MANAGER

I-15 CORRIDOR RECONSTRUCTION	
TYPICAL SECTION	
SECTION 3.2	PROJECT NUMBER *SP-15-7(135)296

SALT LAKE COUNTY
DWG. NO. 3.2-R351-34.4

FINAL 01-08-99 H:\RE_EARTH\PROJECT\239-0007\1998\WALLS\65-34\SUBMITL-3\RE-1 VANCE (X-UTM)DWG

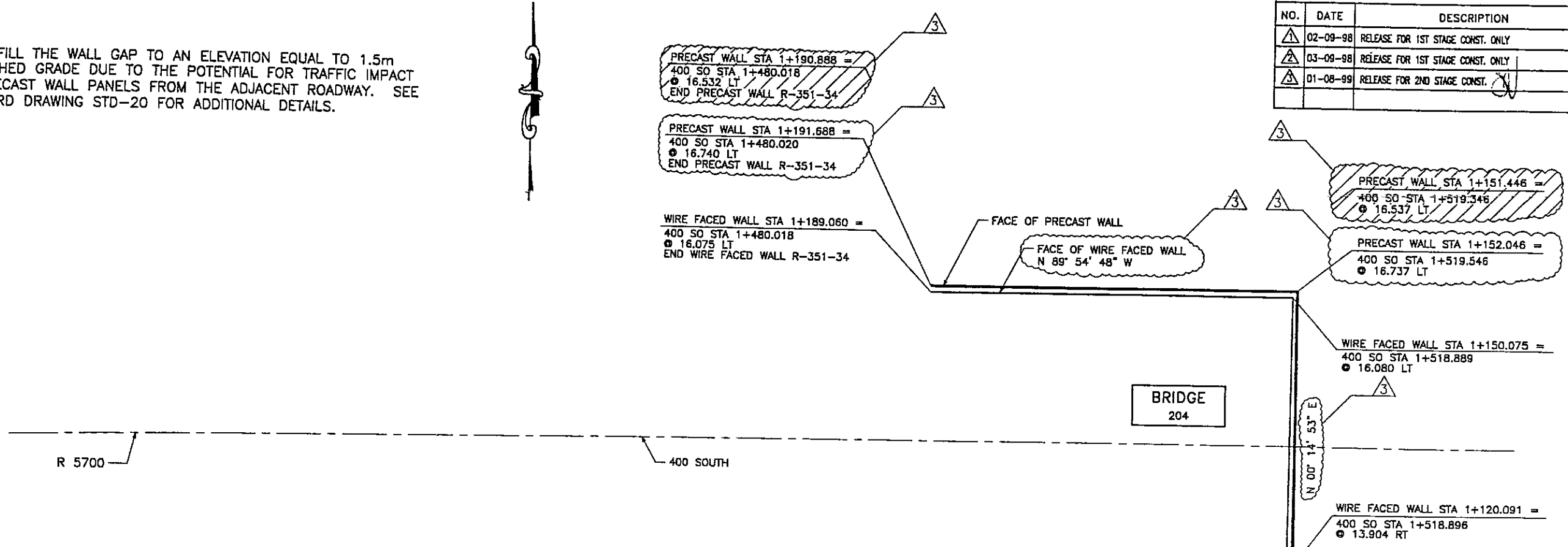
NOTE: BACKFILL THE WALL GAP TO AN ELEVATION EQUAL TO 1.5m ABOVE FINISHED GRADE DUE TO THE POTENTIAL FOR TRAFFIC IMPACT ON THE PRECAST WALL PANELS FROM THE ADJACENT ROADWAY. SEE VSL STANDARD DRAWING STD-20 FOR ADDITIONAL DETAILS.

PRECAST WALL STA 1+190.888 =
400 SO STA 1+480.018
● 16.532 LT
END PRECAST WALL R-351-34

PRECAST WALL STA 1+191.688 =
400 SO STA 1+480.020
● 16.740 LT
END PRECAST WALL R-351-34

WIRE FACED WALL STA 1+189.060 =
400 SO STA 1+480.018
● 16.075 LT
END WIRE FACED WALL R-351-34

APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
△	02-09-98	RELEASE FOR 1ST STAGE CONST. ONLY
△	03-09-98	RELEASE FOR 1ST STAGE CONST. ONLY
△	01-08-99	RELEASE FOR 2ND STAGE CONST.



PLAN VIEW MSE WALL "R-351-34"

SCALE: 1:250 (FULL SIZE)
SCALE: 1:500 (HALF SIZE)

DESIGN PARAMETERS
ANGLE OF INTERNAL FRICTION (SELECT) = 34°
ANGLE OF INTERNAL FRICTION (BASE) = 30°
ANGLE OF INTERNAL FRICTION (RANDOM) = 34°
UNIT WEIGHT BACKFILL = 135 PCF. (21.2 KN/M ³)
TRAFFIC SURCHARGE = 250 PSF
SEISMIC ACCELERATION COFF. = 0.27g (TYP)
SEISMIC ACCELERATION COFF. = 0.68g (AT BRIDGE ABUTMENTS)

DESIGN CRITERIA
SAFETY FACTOR (OVERTURNING) = 2.0
SAFETY FACTOR (SLIDING) = 1.5
SAFETY FACTOR (PULLOUT) = 1.5
DESIGN LIFE = 75 YEARS

RETAINED EARTH INDEX
RE-1 PLAN WIRE FACED WALL R-351-34, NOTES & DESIGN CRITERIA
RE-2 TYPICAL CROSS SECTIONS @ WIRE FACED WALL
RE-3 TYPICAL CROSS SECTION
RE-4 TYPICAL CROSS SECTION
RE-5 WIRE FACED WALL R-351-34
RE-6 WIRE FACED WALL R-351-34
RE-7 WIRE FACED WALL R-351-34
RE-8 WIRE FACED WALL R-351-34
RE-9 PRECAST WALL R-351-34
RE-10 PRECAST WALL R-351-34
RE-11 PRECAST WALL R-351-34
RE-12 PRECAST WALL R-351-34
RE-13 SPECIAL DETAILS
RE-14 SPECIAL DETAILS
RE-15 SPECIAL DETAILS

WIRE FACED WALL STA 1+000.000 =
400 SO STA 1+398.501
● 13.904 RT
BEGIN WIRE FACED WALL R-351-34

PRECAST WALL STA 1+000.000 =
400 SO STA 1+398.501
● 14.899 RT
BEGIN PRECAST WALL R-351-34

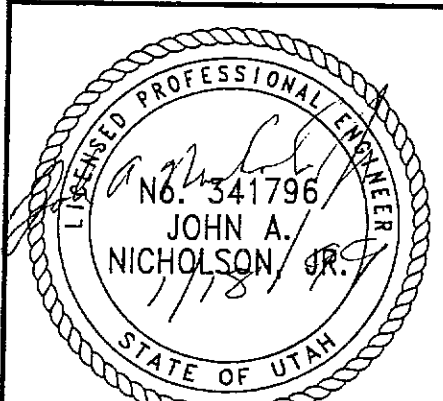
PRECAST WALL STA 1+000.000 =
400 SO STA 1+398.501
● 14.361 RT
BEGIN PRECAST WALL R-351-34

2ND STAGE DESIGN
BASED ON POST SETTLEMENT SURVEY OF THE WIRE FACE, LATERAL OUTWARD DISPLACEMENTS RANGED FROM -3 mm TO 487 mm MEASURED AT THE BASE OF THE WALL.

NOTE:
THE WALL CONNECTIONS ON WALL 350-34 MAY BE ROTATED A MAXIMUM OF 42° VERTICALLY (COL 37-53) AND 55° VERTICALLY (COL 1-36 & 54-62). SEE DETAIL "SECTION ROTATED" ON VSL STANDARD DRAWING NO. 18 FOR MORE INFORMATION.

METRIC

CERTIFIED FOR INTERNAL STABILITY OF RETAINED EARTH™ STRUCTURES ONLY. EXTERNAL STABILITY, INCLUDING BUT NOT LIMITED TO FOUNDATION AND SLOPE STABILITY, IS THE RESPONSIBILITY OF THE OWNER. DESIGN IS BASED ON THE ASSUMPTION THAT THE MATERIAL WITHIN THE RETAINED EARTH™ MASS, METHODS OF CONSTRUCTION, AND QUALITY OF PREFABRICATED MATERIALS CONFORM TO THE MANUFACTURER'S SPECIFICATION.

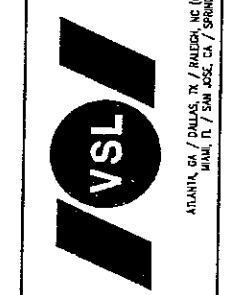


WASATCH CONSTRUCTORS
JAN 26 1999
RELEASED FOR CONSTRUCTION

RETAINED EARTH™ WALLS
PLAN VIEW MSE WALL "R-351-34"
UTAH I-15 RECONSTRUCTION
SALT LAKE COUNTY, UTAH
UTAH DEPARTMENT OF TRANSP.

DWG. NO.	3.2-R351-34.5
JOB NO.	239-0007
SHT. NO.	RE-1

VSL CORPORATION
2840 Reno Place, Suite 200
Raleigh, NC 27612
Telephone: (919) 781-8272
Fax: (919) 781-4969



ATLANTA, GA / DALLAS, TX / DENVER, CO (SEPARATE OFFICE)
MIAMI, FL / SAN JOSE, CA / SPRINGFIELD, VA

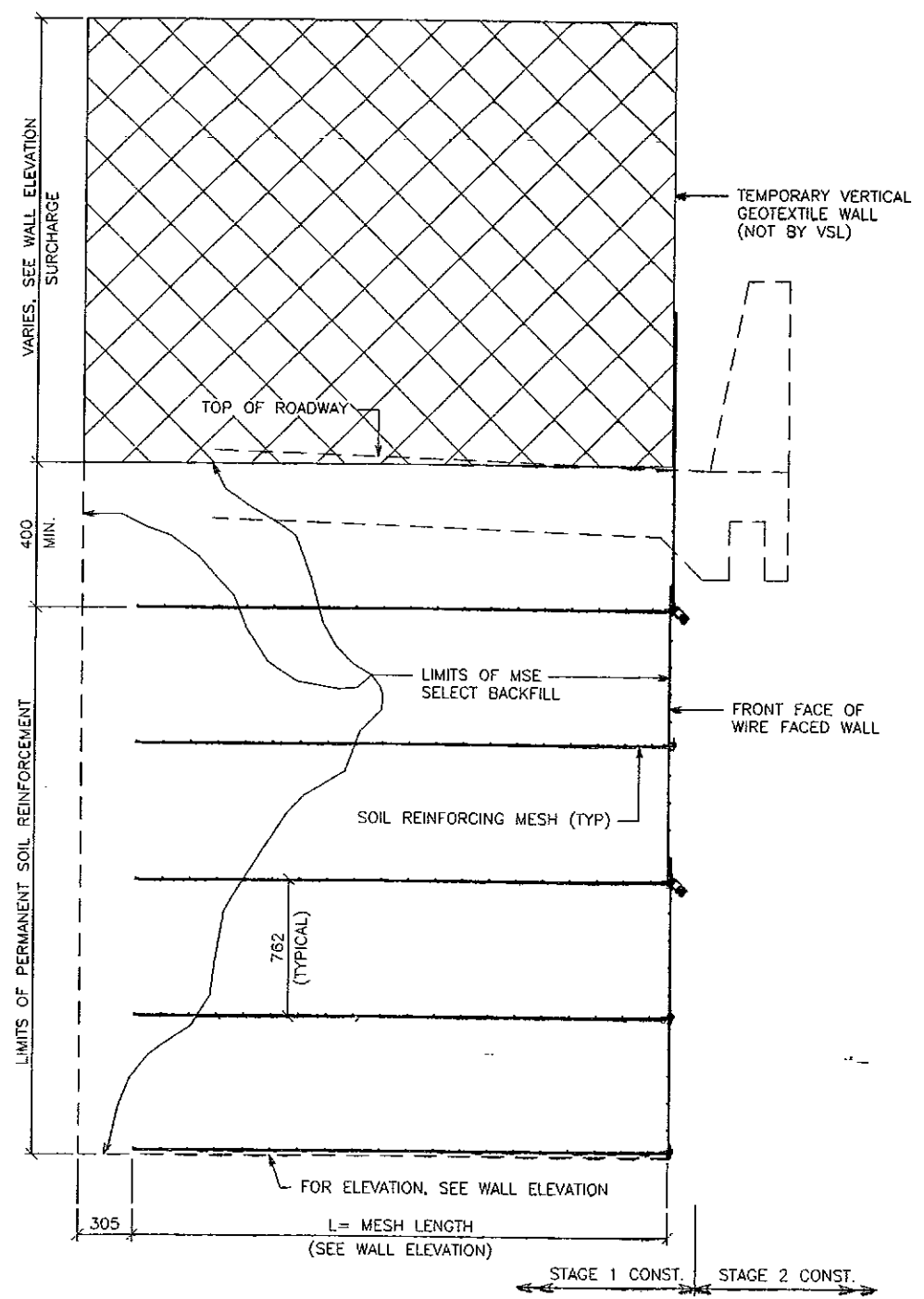
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DRN.	10-09-98	RSW
CHK.	10-09-98	MM

NO.	DATE	DESCRIPTION	BY	CHK

6S-34\SUBMITL-3\RE-2

H:\RE_EARTH\PROJECT\239-0007\1998\6\

FINAL PLG. -09-98



**TYPICAL CROSS SECTION
AT FINAL PHASE OF WIRE FACE WALL**
SCALE: 1:20 (FULL SIZE)
SCALE: 1:40 (HALF SIZE)

APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
△	02-09-98	RELEASE FOR 1ST STAGE CONST. ONLY. <i>AKJ</i>

DES.	01-07-98	MM
DRN.	01-07-98	DDL
CHK.	01-07-98	MM

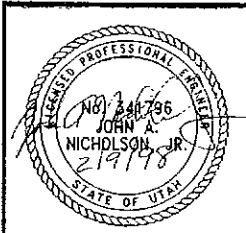
VSL CORPORATION
2810 Plaza Place, Suite 200
Birmingham, AL 35203
Tel: (205) 781-6772
Fax: (205) 781-4989



VSL Corporation hereby grants a license to the user of this drawing to use the information contained herein for the project and for the construction of the structure shown on this drawing. The user of this drawing is responsible for the design and construction of the structure shown on this drawing. The user of this drawing is responsible for the design and construction of the structure shown on this drawing. The user of this drawing is responsible for the design and construction of the structure shown on this drawing.

WABATCH CONSTRUCTORS
FEB 24 1998
RELEASED FOR CONSTRUCTION

METRIC



RETAINED EARTH™ WALLS
WIRE FACED WALL "R-351-34"
TYPICAL SECTIONS @ WIRE FACED WALL
UTAH 1-15 RECONSTRUCTION
SALT LAKE COUNTY, UTAH
UTAH DEPARTMENT OF TRANSPORTATION

CERTIFIED FOR INTERNAL STABILITY OF RETAINED EARTH™ STRUCTURES ONLY. EXTERNAL STABILITY, INCLUDING BUT NOT LIMITED TO FOUNDATION AND SLOPE STABILITY, IS THE RESPONSIBILITY OF THE OWNER. DESIGN IS BASED ON THE ASSUMPTION THAT THE MATERIAL WITHIN THE RETAINED EARTH™ MASS, METHODS OF CONSTRUCTION, AND QUALITY OF PREFABRICATED MATERIALS CONFORM TO THE MANUFACTURER'S SPECIFICATION.


SCALE:	3.2-R351-34.6
JOB NO:	239-0007
	RE-2

NOT RELEASED FOR CONSTRUCTION

APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
△	02-09-98	RELEASE FOR 1ST STAGE CONST. ONLY <i>AP</i>

DES.	CHK.	DATE	BY
DES. 01-07-98	JL	01-07-98	JL
CHK. 01-07-98	JL	01-07-98	JL

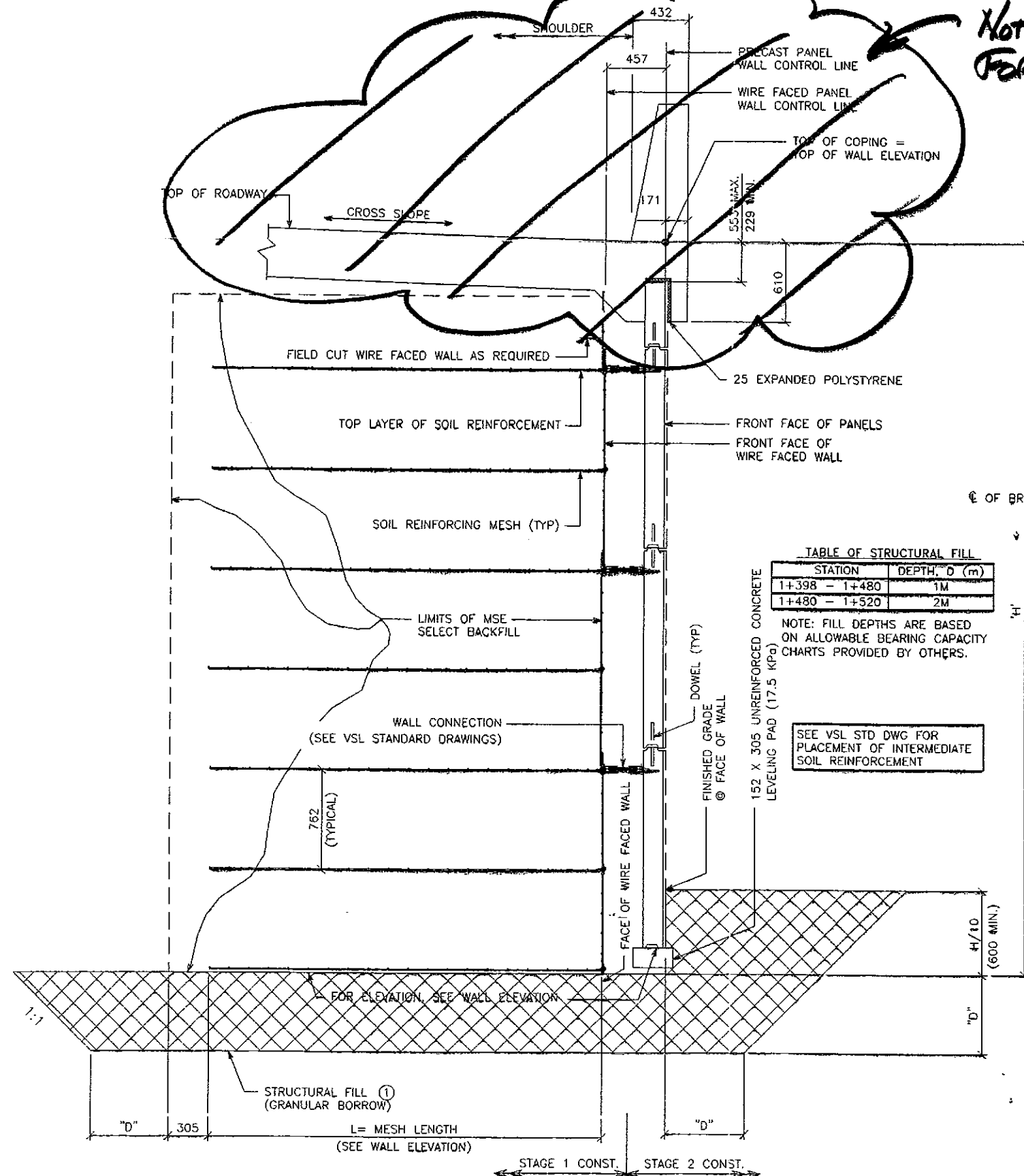
VSL CORPORATION
2840 Plus Place, Suite 200
Raleigh, NC 27607
Tel: (919) 781-6272
Fax: (919) 781-4988



VSL Corporation hereby certifies that the design shown on this drawing was prepared by its duly licensed and qualified personnel and that the design complies with the applicable building codes and standards of practice.

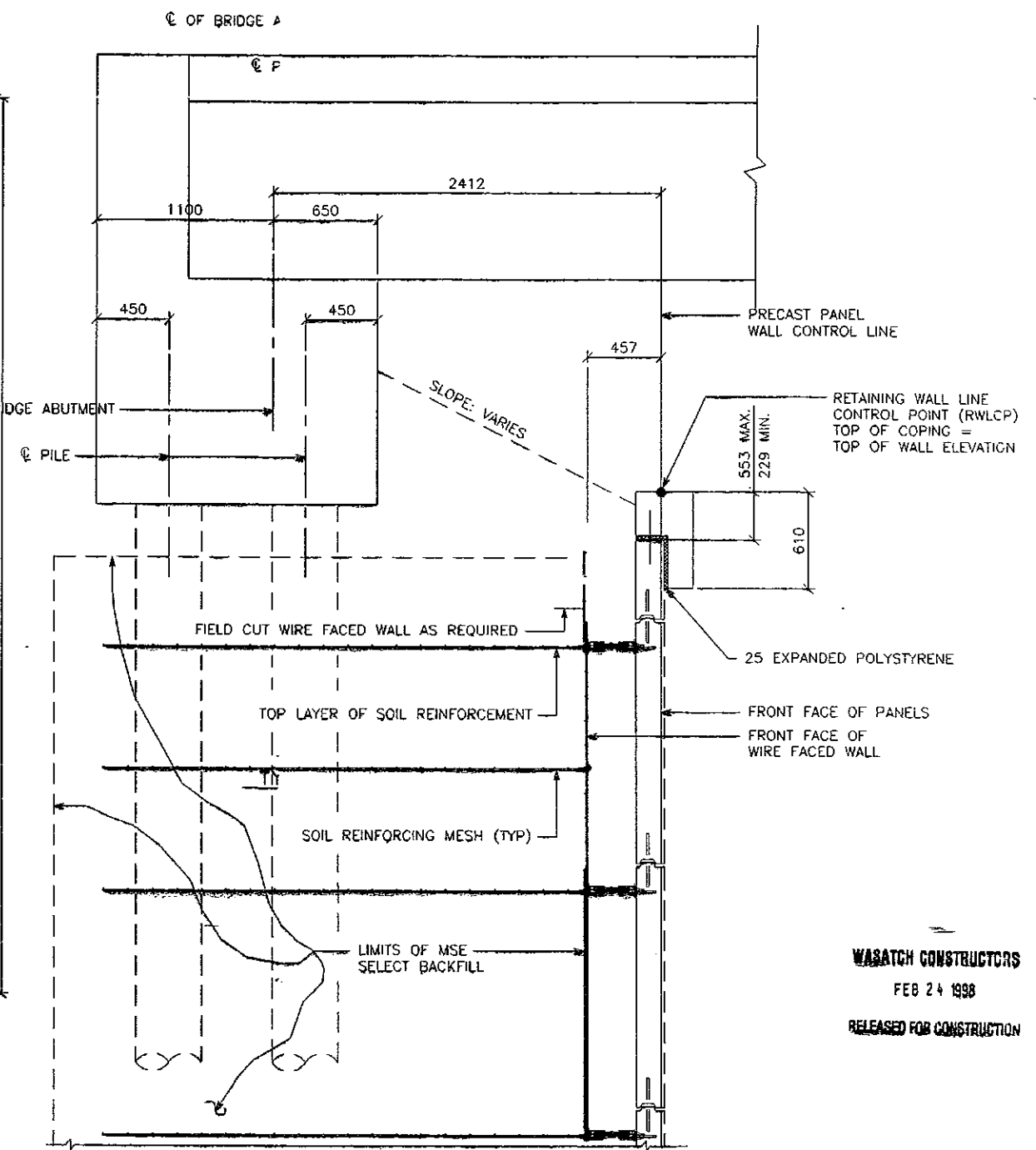
RETAINED EARTH™ WALLS
WIRE FACED WALL "R-351-34"
TYPICAL CROSS SECTION
UTAH I-15 RECONSTRUCTION
SALT LAKE COUNTY, UTAH
UTAH DEPARTMENT OF TRANSPORTATION

SCALE:	3.2-R351-34.7
JOB NO.	239-0007
	RE-3



TYPICAL CROSS SECTION - STA 1+000.000 TO STA 1+120.548
(SEE DWG. NO. 3.2R-351-34.4 FOR ADDITIONAL INFORMATION)

SCALE: 1:20 (FULL SIZE)
SCALE: 1:40 (HALF SIZE)



TYPICAL CROSS SECTION STA 1+120.548 TO 1+151.446
(SEE DWG. NO. 3.2R-351-34.3 FOR ADDITIONAL INFORMATION)

SCALE: 1:20 (FULL SIZE)
SCALE: 1:40 (HALF SIZE)

WASATCH CONSTRUCTORS
FEB 24 1998
RELEASED FOR CONSTRUCTION

METRIC

CERTIFIED FOR INTERNAL STABILITY OF RETAINED EARTH™ STRUCTURES ONLY. EXTERNAL STABILITY, INCLUDING BUT NOT LIMITED TO FOUNDATION AND SLOPE STABILITY, IS THE RESPONSIBILITY OF THE OWNER. DESIGN IS BASED ON THE ASSUMPTION THAT THE MATERIAL WITHIN THE RETAINED EARTH™ MASS, METHODS OF CONSTRUCTION, AND QUALITY OF PREFABRICATED MATERIALS CONFORM TO THE MANUFACTURER'S SPECIFICATION.

H:\RE_EARTH\PROJECT\239-0007\1998\6S... \S-34\SUBMTL-3\RE-4

-09-98

FINAL PLU

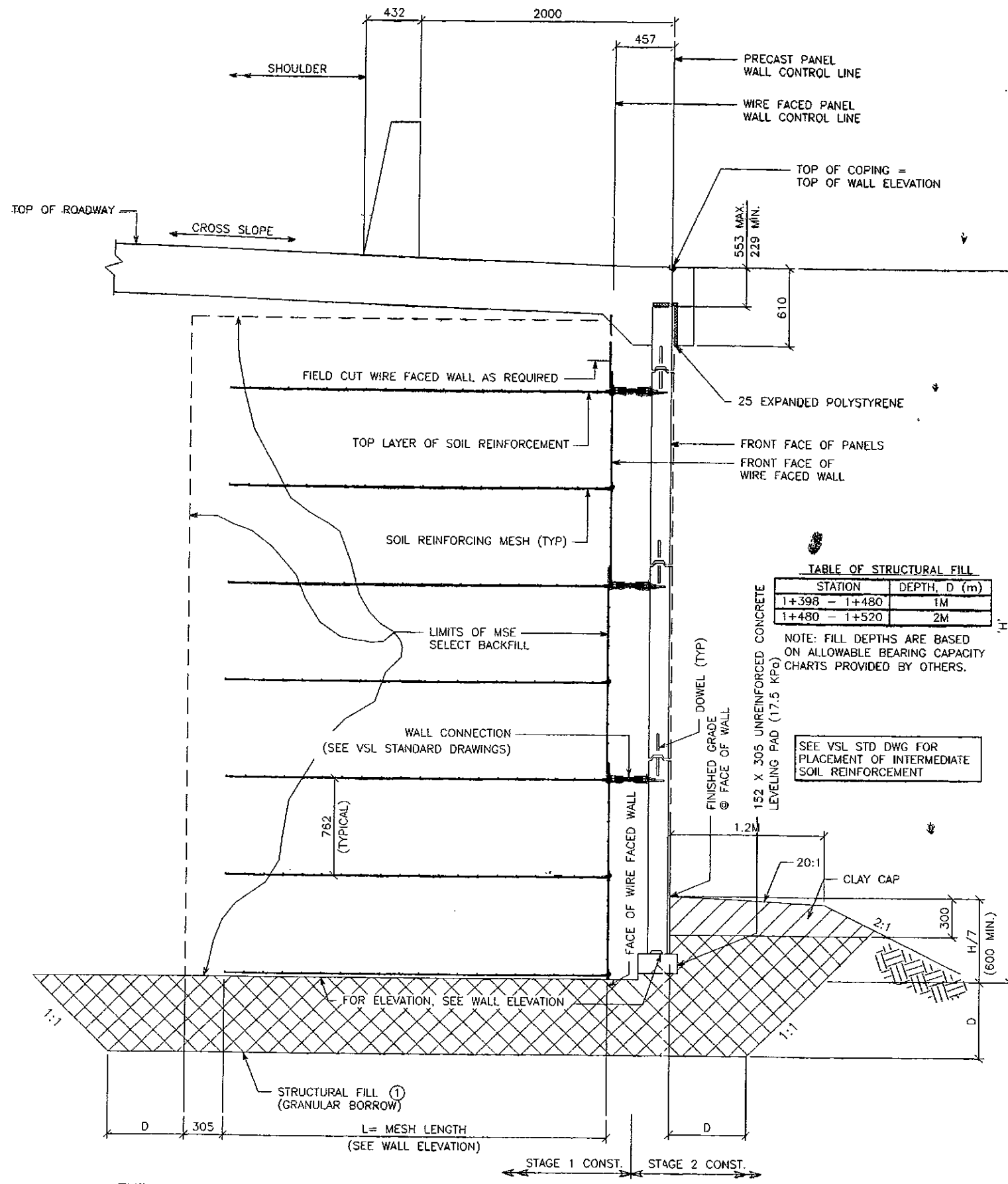


TABLE OF STRUCTURAL FILL

STATION	DEPTH, D (m)
1+398 - 1+480	1M
1+480 - 1+520	2M

NOTE: FILL DEPTHS ARE BASED ON ALLOWABLE BEARING CAPACITY CHARTS PROVIDED BY OTHERS.

SEE VSL STD DWG FOR PLACEMENT OF INTERMEDIATE SOIL REINFORCEMENT

TYPICAL CROSS SECTION - STA 1+151.446 TO STA 1+190.888
(SEE DWG. NO. 3.2R-351-34.3 FOR ADDITIONAL INFORMATION)

SCALE: 1:20 (FULL SIZE)
SCALE: 1:40 (HALF SIZE)

CERTIFIED FOR INTERNAL STABILITY OF RETAINED EARTH™ STRUCTURES ONLY. EXTERNAL STABILITY, INCLUDING BUT NOT LIMITED TO FOUNDATION AND SLOPE STABILITY, IS THE RESPONSIBILITY OF THE OWNER. DESIGN IS BASED ON THE ASSUMPTION THAT THE MATERIAL WITHIN THE RETAINED EARTH™ MASS, METHODS OF CONSTRUCTION, AND QUALITY OF PREFABRICATED MATERIALS CONFORM TO THE MANUFACTURER'S SPECIFICATION.

APPROVED FOR CONSTRUCTION

NO.	DATE	DESCRIPTION
1	02-09-98	RELEASE FOR 1ST STAGE CONST. ONLY

DES.	CHK	DATE	BY
JL	JL	01-07-98	JL
DOL	DOL	01-07-98	DOL
JL	JL	01-07-98	JL

RETAINED EARTH™

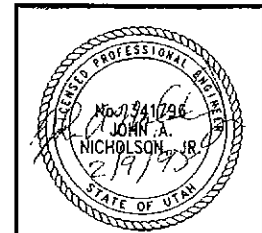
VSL CORPORATION
2840 Plaza Place, Suite 200
Raleigh, NC 27612
Telephone: (919) 781-6272
Fax: (919) 781-6859



VSL Corporation (VSL) claims a patent in the U.S. and other countries for its Retained Earth™ system. The use of this system is restricted to the design and construction of retaining walls. Any other use is strictly prohibited. © 1998 VSL

WABATCH CONSTRUCTORS
FEB 24 1998
RELEASED FOR CONSTRUCTION

METRIC



RETAINED EARTH™ WALLS
WIRE FACED WALL "R-351-34"
TYPICAL CROSS SECTION
UTAH I-15 RECONSTRUCTION
SALT LAKE COUNTY, UTAH
UTAH DEPARTMENT OF TRANSPORTATION

SCALE: 3.2-R351-34.8
JOB NO: 239-0007
RE-4

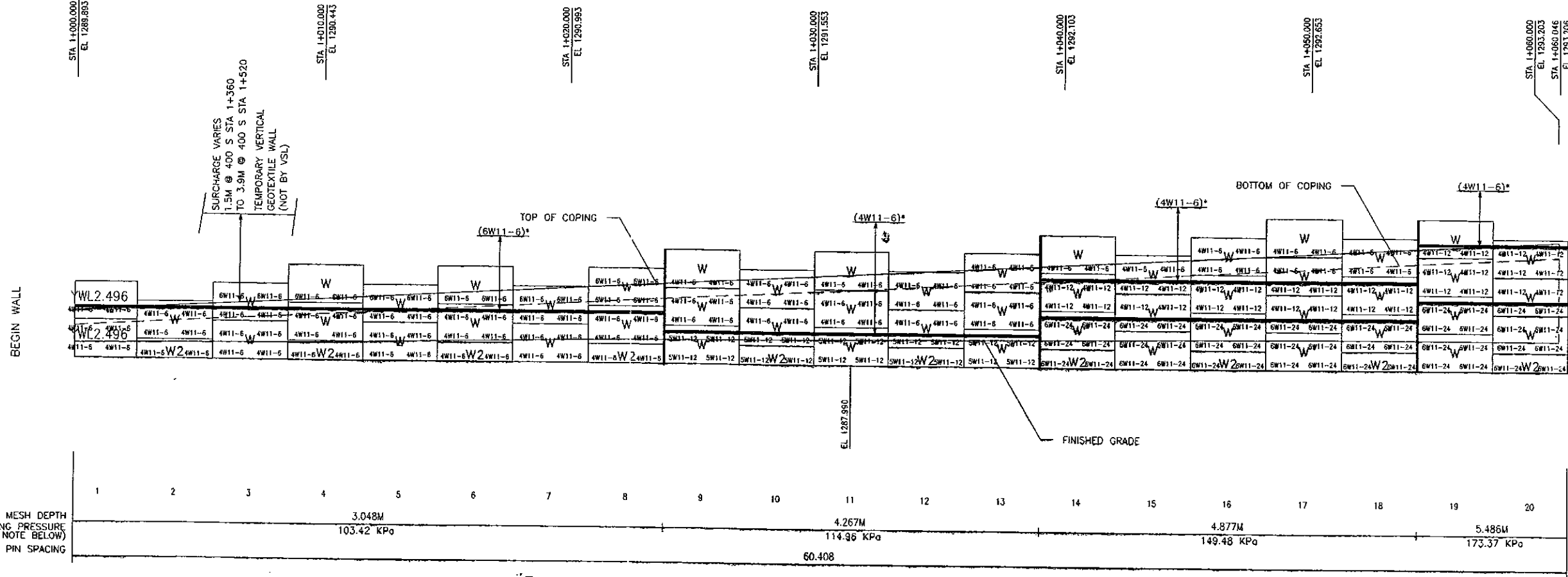
JBM/L-3\W6S-34

H:\RE-EARTH\PROJECT\239-0007\1998\6S-WALLS\

-09-98

FINAL PLC

BEGIN WIRE FACED WALL R-351-34
WIRE FACED WALL STA 1+000.000 =
400 SO STA 1+398.501
@ 13.904 RT



RETAINING WALL "R-351-34" - 1ST STAGE: WIRE FACED WALL

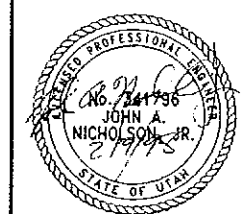
(FRONT FACE SHOWN)
(TOTAL SURFACE AREA OF FACING = 1165.30 SM)

SCALE 1:100 (FULL SIZE)
SCALE 1:200 (HALF SIZE)

APPROVER NOTE:
MAXIMUM FINAL UNFACTORED BEARING PRESSURES
ARE INDICATED BELOW "MESH DEPTH LINE"
REVIEWER TO VERIFY MAXIMUM BEARING
CAPACITY OF FOUNDATION.

* INDICATES SOIL REINFORCING TYPE
MESH TO BE USED ON ADDITIONAL
WIRE WALL FACING ADDED AFTER
SETTLEMENT.

CERTIFIED FOR INTERNAL STABILITY OF RETAINED EARTH™ STRUCTURES ONLY.
EXTERNAL STABILITY, INCLUDING BUT NOT LIMITED TO FOUNDATION AND SLOPE
STABILITY, IS THE RESPONSIBILITY OF THE OWNER. DESIGN IS BASED ON THE
ASSUMPTION THAT THE MATERIAL WITHIN THE RETAINED EARTH™ MASS, METHODS
OF CONSTRUCTION, AND QUALITY OF PREFABRICATED MATERIALS CONFORM TO
THE MANUFACTURER'S SPECIFICATION.



WASATCH CONSTRUCTORS
FEB 24 1998
RELEASED FOR CONSTRUCTION

METRIC

APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
△	02-09-98	RELEASE FOR 1ST STAGE CONST. ONLY <i>JAS</i>

DES.	01-30-98	JL
DRN.	01-30-98	000
CHK.	01-30-98	JL
RETAINED EARTH™		

VSL CORPORATION
2840 Plaza Place, Suite 200
Raleigh, NC 27612
Telephone: (919) 781-4272
Fax: (919) 781-4888



VSL Corporation (VSLC) offers a three proprietary design and construction process for retaining walls. This process includes a design and construction process that is based on the use of VSL's Retained Earth™ Mass. The design and construction process is based on the use of VSL's Retained Earth™ Mass. The design and construction process is based on the use of VSL's Retained Earth™ Mass.

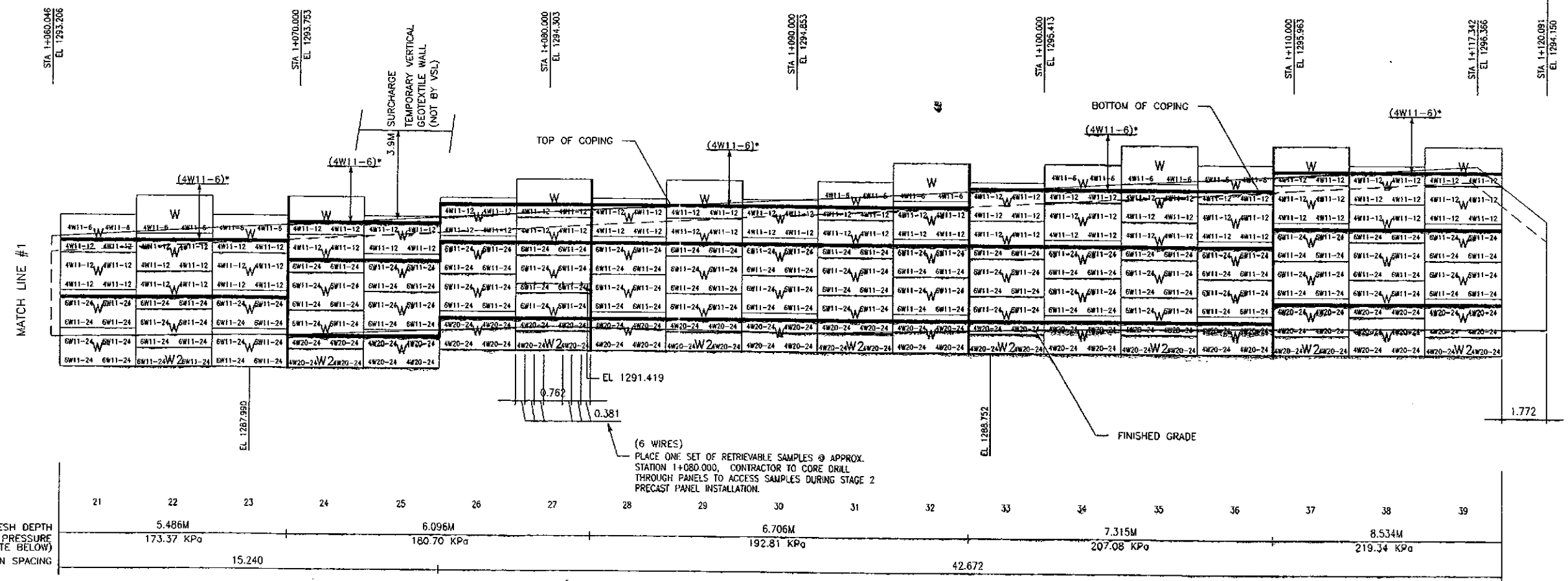
RETAINED EARTH™ WALLS
WALL "R-351-34" - 1ST STAGE: WIRE FACED WALL
UTAH I-15 RECONSTRUCTION
SALT LAKE COUNTY, UTAH
UTAH DEPARTMENT OF TRANSP.

SCALE:	3.2-R351-34.9
JOB NO:	239-0007
RE-	RE-5

H:\RE_EARTH\PROJECT\239-0007\1998\65-WALLS-34
 J:\BWL-3\WBS-34
 FINAL PLO. -09-98

APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
▲	02-09-98	RELEASE FOR 1ST STAGE CONST. ONLY <i>AB</i>

BEGIN WIRE FACED WALL R-351-34
 WIRE FACED WALL STA 1+120.091 =
 400 SO STA 1+518.896
 © 13.904 RT

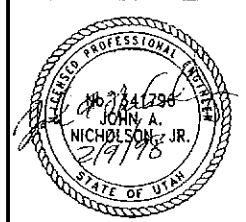


RETAINING WALL "R-351-34" - 1ST STAGE: WIRE FACED WALL
 (FRONT FACE SHOWN)
 (TOTAL SURFACE AREA OF FACING = 1165.30 SM)
 SCALE 1:100 (FULL SIZE)
 SCALE 1:200 (HALF SIZE)

APPROVER NOTE:
 MAXIMUM FINAL UNFACTORED BEARING PRESSURES
 ARE INDICATED BELOW "MESH DEPTH LINE"
 REVIEWER TO VERIFY MAXIMUM BEARING
 CAPACITY OF FOUNDATION.

* INDICATES SOIL REINFORCING TYPE
 MESH TO BE USED ON ADDITIONAL
 WIRE WALL FACING ADDED AFTER
 SETTLEMENT.

CERTIFIED FOR INTERNAL STABILITY OF RETAINED EARTH™ STRUCTURES ONLY.
 EXTERNAL STABILITY, INCLUDING BUT NOT LIMITED TO FOUNDATION AND SLOPE
 STABILITY, IS THE RESPONSIBILITY OF THE OWNER. DESIGN IS BASED ON THE
 ASSUMPTION THAT THE MATERIAL WITHIN THE RETAINED EARTH™ MASS, METHODS
 OF CONSTRUCTION, AND QUALITY OF PREFABRICATED MATERIALS CONFORM TO
 THE MANUFACTURER'S SPECIFICATION.



WARATCH CONSTRUCTORS
 FEB 24 1998
 RELEASED FOR CONSTRUCTION

METRIC

DES: 01-30-98 JL
 DRN: 01-30-98 DDO
 CHK: 01-30-98 JL

VSL CORPORATION
 2640 Plaza Place, Suite 200
 Raleigh, NC 27612
 Raleigh, NC (919) 86-6772
 Fax: (919) 86-6889

UTAH RECONSTRUCTION
 SALT LAKE COUNTY, UTAH
 UTAH DEPARTMENT OF TRANSPORTATION

SCALE:
 3.2R-R351-34.10
 JOB NO:
 239-0007
 RE-6

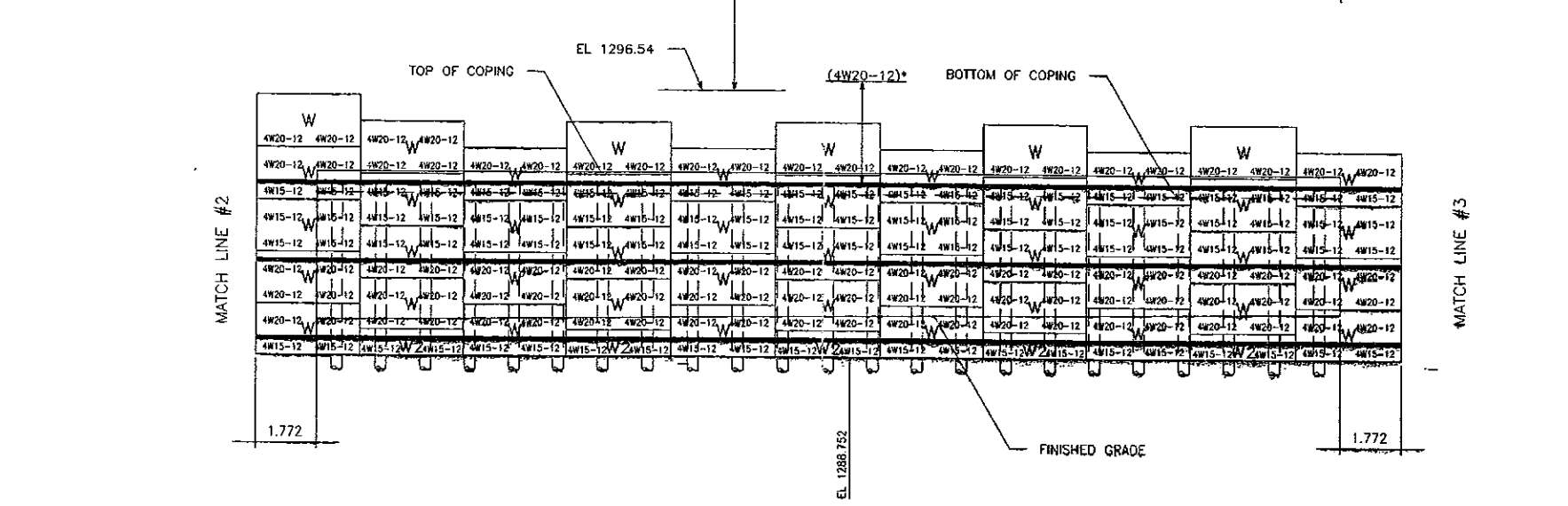
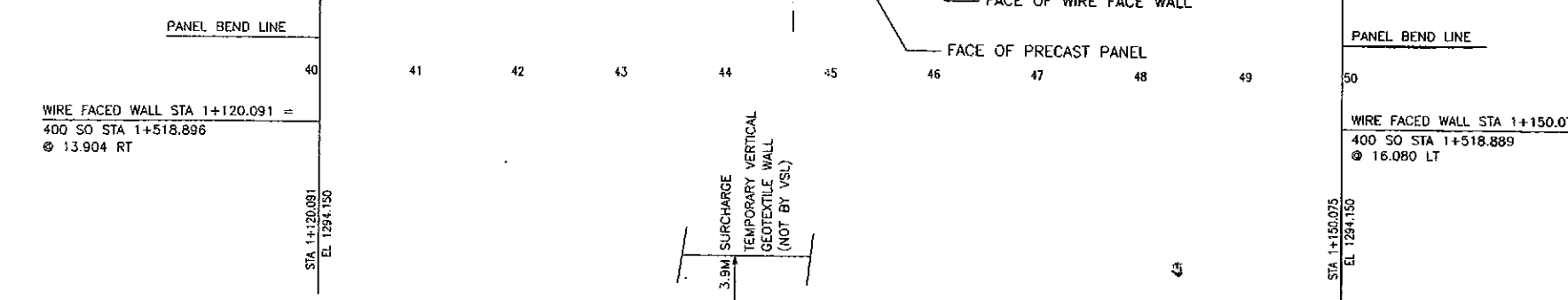
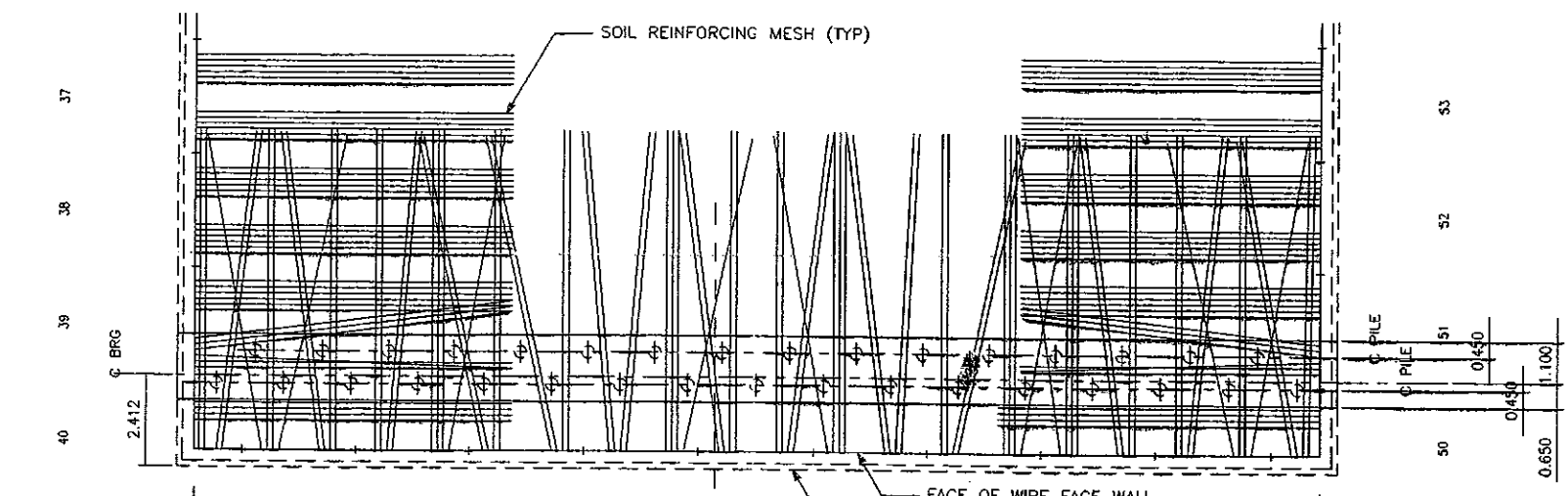
10 of 17

H:\RE_EARTH\PROJECT\239-0007\1998\65-WALLS\65-

JBM1L-3\W65-34

FINAL PLO: -09-98

APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
△	02-09-98	RELEASE FOR 1ST STAGE CONST. ONLY



STATION	40	41	42	43	44	45	46	47	48	49	50
MESH DEPTH	8.534M										
MAXIMUM BEARING PRESSURE (SEE NOTE BELOW)	203.25 KPa										
PIN SPACING	33.528										

RETAINING WALL "R-351-34" - 1ST STAGE: WIRE FACED WALL

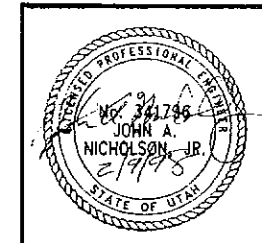
(FRONT FACE SHOWN) SCALE 1:100 (FULL SIZE)
 (TOTAL SURFACE AREA OF FACING = 1165.30 SM) SCALE 1:200 (HALF SIZE)

APPROVER NOTE:
 MAXIMUM FINAL UNFACTORED BEARING PRESSURES ARE INDICATED BELOW "MESH DEPTH LINE". REVIEWER TO VERIFY MAXIMUM BEARING CAPACITY OF FOUNDATION.

* INDICATES SOIL REINFORCING TYPE MESH TO BE USED ON ADDITIONAL WIRE WALL FACING ADDED AFTER SETTLEMENT.

WASATCH CONSTRUCTORS
 FEB 24 1998
 RELEASED FOR CONSTRUCTION

METRIC

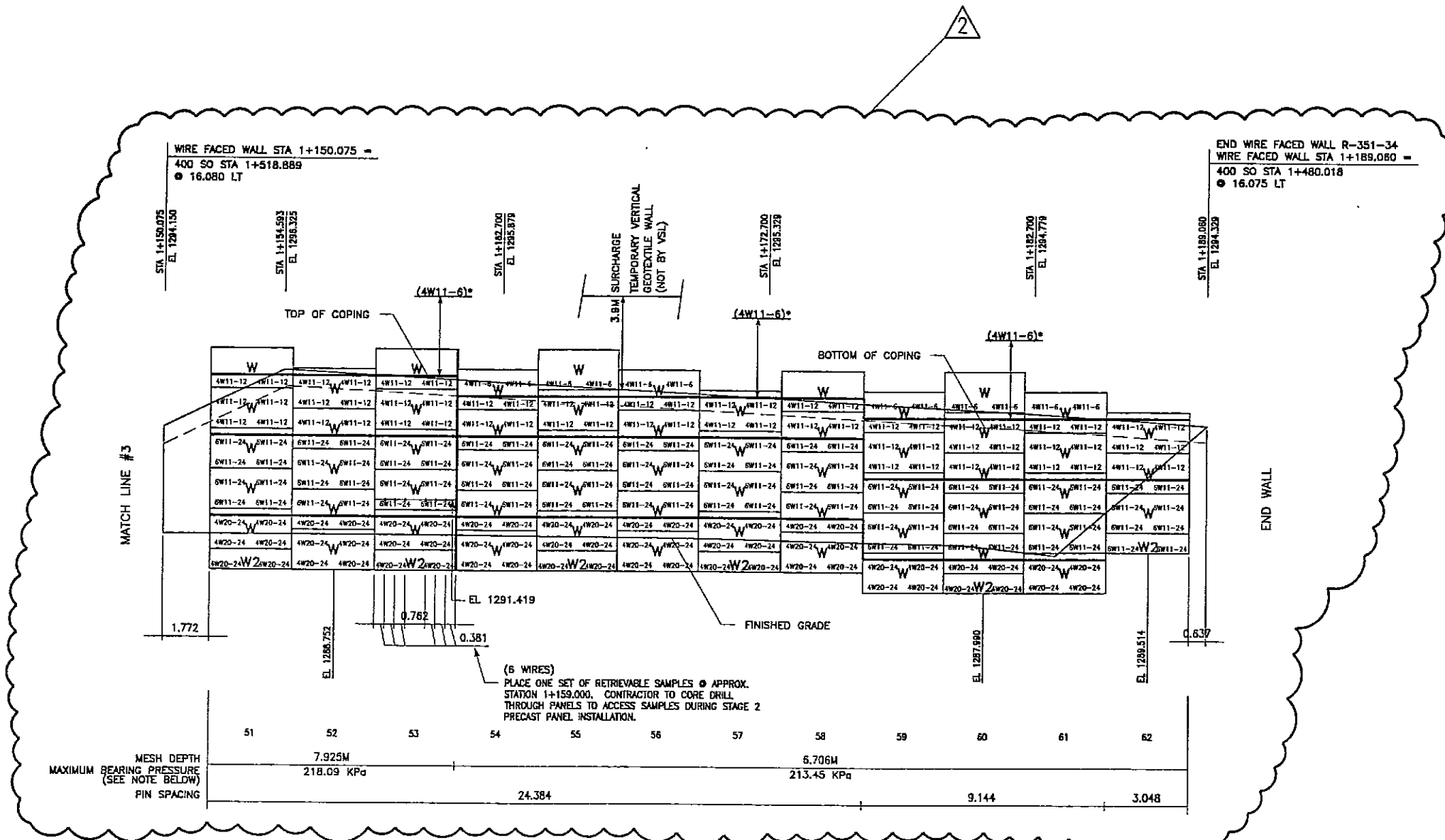


CERTIFIED FOR INTERNAL STABILITY OF RETAINED EARTH™ STRUCTURES ONLY. EXTERNAL STABILITY, INCLUDING BUT NOT LIMITED TO FOUNDATION AND SLOPE STABILITY, IS THE RESPONSIBILITY OF THE OWNER. DESIGN IS BASED ON THE ASSUMPTION THAT THE MATERIAL WITHIN THE RETAINED EARTH™ MASS, METHODS OF CONSTRUCTION, AND QUALITY OF PREFABRICATED MATERIALS CONFORM TO THE MANUFACTURER'S SPECIFICATION.

RETAINED EARTH™ WALLS
 WALL "R-351-34" - 1ST STAGE: WIRE FACED WALL
 UTAH I-15 RECONSTRUCTION
 SALT LAKE COUNTY, UTAH
 UTAH DEPARTMENT OF TRANSP.

SCALE	3.2R-R351-34.11
JOB NO.	239-0007
	RE-7

APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
▲	02-09-98	RELEASE FOR 1ST STAGE CONST. ONLY
▲	03-09-98	RELEASE FOR 1ST STAGE CONST. ONLY



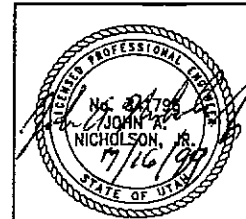
RETAINING WALL "R-351-34" - 1ST STAGE: WIRE FACED WALL
 (FRONT FACE SHOWN) SCALE 1:100 (FULL SIZE)
 (TOTAL SURFACE AREA OF FACING = 1165.30 SM) SCALE 1:200 (HALF SIZE)

APPROVER NOTE:
 MAXIMUM FINAL UNFACTORED BEARING PRESSURES ARE INDICATED BELOW "MESH DEPTH LINE". REVIEWER TO VERIFY MAXIMUM BEARING CAPACITY OF FOUNDATION.

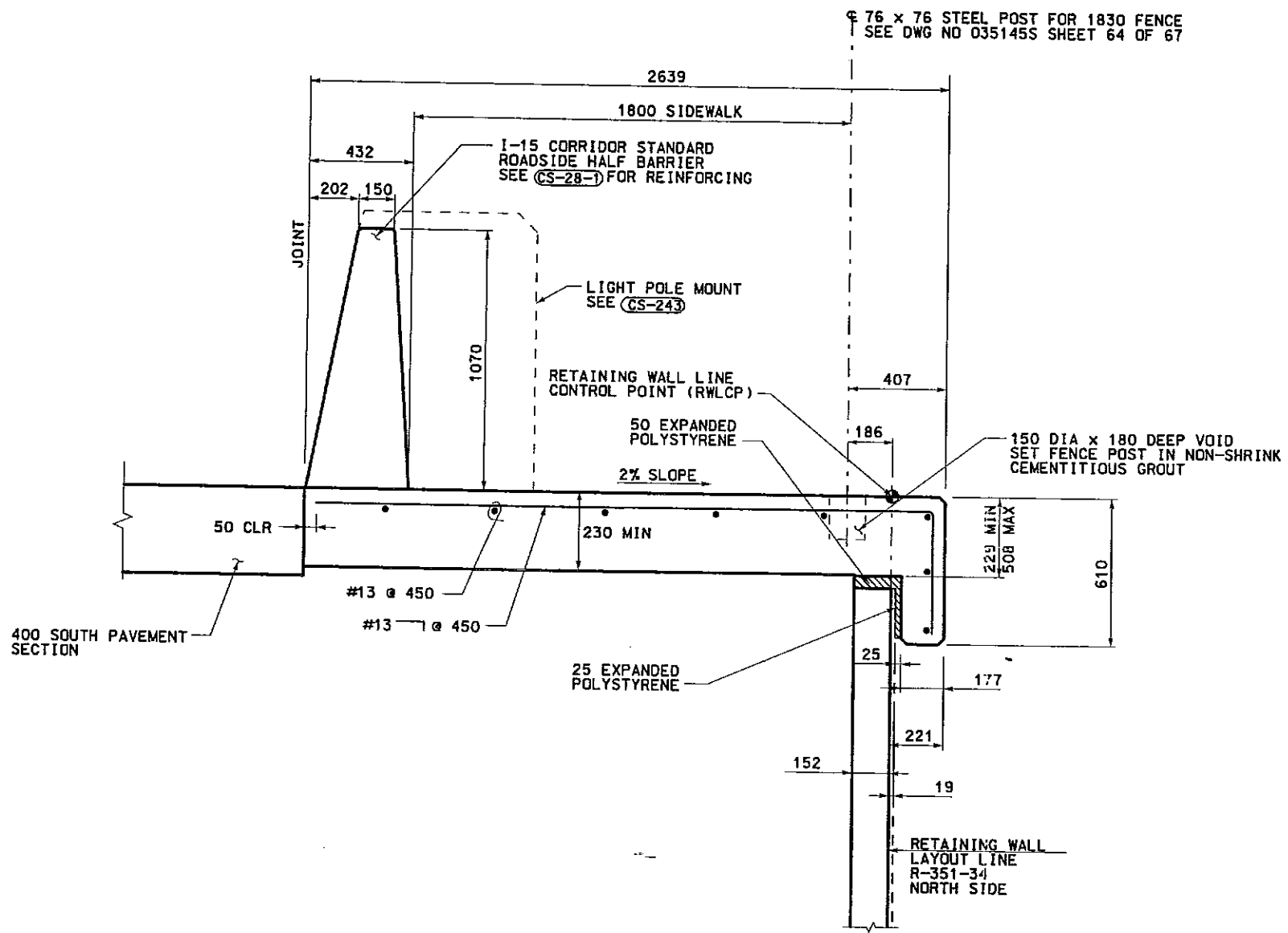
* INDICATES SOIL REINFORCING TYPE MESH TO BE USED ON ADDITIONAL WIRE WALL FACING ADDED AFTER SETTLEMENT.

CERTIFIED FOR INTERNAL STABILITY OF RETAINED EARTH™ STRUCTURES ONLY. EXTERNAL STABILITY, INCLUDING BUT NOT LIMITED TO FOUNDATION AND SLOPE STABILITY, IS THE RESPONSIBILITY OF THE OWNER. DESIGN IS BASED ON THE ASSUMPTION THAT THE MATERIAL WITHIN THE RETAINED EARTH™ MASS, METHODS OF CONSTRUCTION, AND QUALITY OF PREFABRICATED MATERIALS CONFORM TO THE MANUFACTURER'S SPECIFICATION.

METRIC



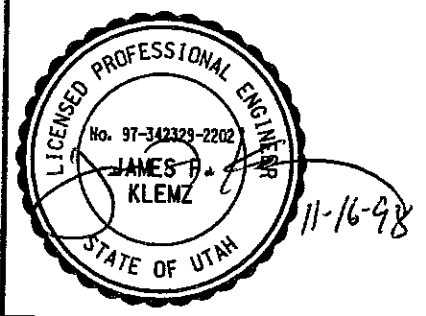
DES. 01-30-98 JL		RETAINED EARTH™		NO.	DATE	REVISION	BY	CHK	
DRN 01-30-98 DDO		VSL							
CHK 01-30-98 JL		VSL							
<p>VSL CORPORATION 2840 Plaza Plaza, Suite 200 Raleigh, NC 27612 Telephone: (919) 781-6772 Fax: (919) 781-1895</p> <p>ATLANTA, GA / DALLAS, TX / HANCOCK, NC (CORPORATE OFFICE) MIAMI, FL / SAN JOSE, CA / SPRINGFIELD, VA</p>									
<p>RETAINED EARTH™ WALLS WALL "R-351-34" - 1ST STAGE: WIRE FACED WALL</p> <p>UTAH I-15 RECONSTRUCTION SALT LAKE COUNTY, UTAH UTAH DEPARTMENT OF TRANSP.</p>									
<p>SCALE: 3.2R-R351-34.12 JOB NO: 239-0007 RE-8</p>									



MSE TWO STAGE WITH BARRIER & FENCE ON MOMENT SLAB
WALL R-351-34 NORTH SIDE
 NTS

- NOTES**
1. 50mm MINIMUM COVER OVER REINFORCING
 2. USE PCC $f'c=27.5$ MPa (4000 PSI) FOR MOMENT SLAB
 3. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED
 4. LOCATE TRANSVERSE CONSTRUCTION JOINTS AT A MINIMUM 16 METER SPACING

WASATCH CONSTRUCTORS
 NOV 24 1998
 RELEASED FOR CONSTRUCTION

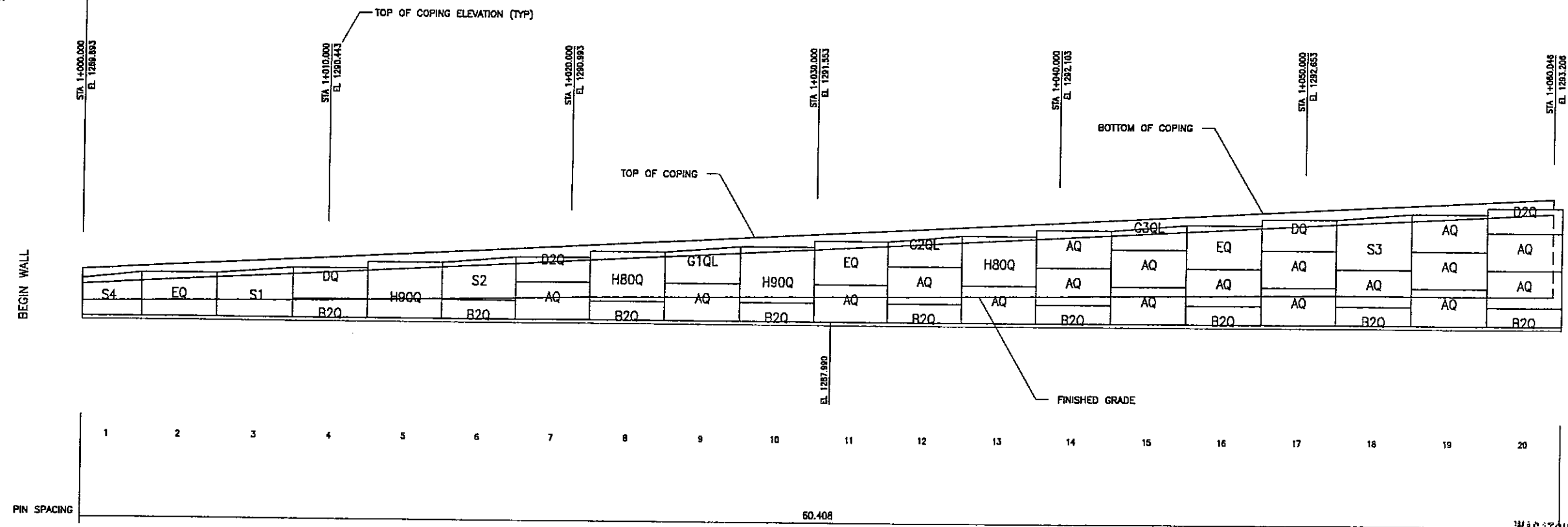


APPROVED FOR CONSTRUCTION	NO.	DATE	DESCRIPTION
	A	11/13/98	RELEASE FOR CONSTRUCTION
UTAH DEPARTMENT OF TRANSPORTATION SVERDRUP/DE LEUW	DESIGN	11/13/98	CHECK
	DRWN	11/13/98	CHECK
	PROJECT DESIGN ENGINEER	DATE	SECTION MANAGER
	APPROVED	DATE	DATE
I-15 CORRIDOR RECONSTRUCTION	TYPICAL SECTION		
	SECTION 3.2		
PROJECT NUMBER		*SP-15-7(135)296	
COUNTY		SALT LAKE	
DWG. NO.		3.2-R351-34.13	
SHT.		13 of 17	

FINAL PLOT 01-17-99
 H:\RE_EARTH\PROJECT\239-0007\2-STAGE\65-WALLS\65-34\W65-34
 REFERENCE (X-UTAH.DWG)

APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
△ 01-08-99		RELEASE FOR 2ND STAGE CONST. <i>SV</i>

BEGIN PRECAST WALL R-351-34
 PRECAST WALL STA 1+000.000 =
 400 SO STA 1+308.501
 ● 14.899 RT



PIN SPACING

60.408

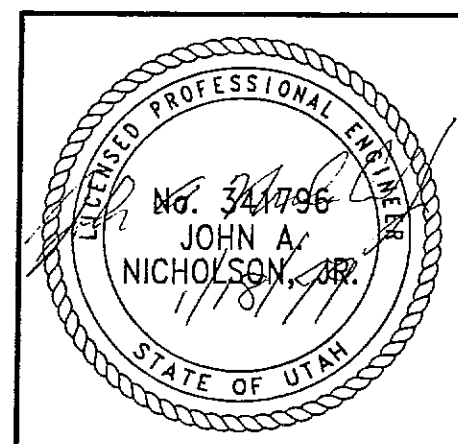
RETAINING WALL "R-351-34" - 2ND STAGE: PRECAST WALL

(FRONT FACE SHOWN)
 (TOTAL SURFACE AREA OF FACING = 949.16 SM)

SCALE 1:100 (FULL SIZE)
 SCALE 1:200 (HALF SIZE)

METRIC

CERTIFIED FOR INTERNAL STABILITY OF RETAINED EARTH™ STRUCTURES ONLY. EXTERNAL STABILITY, INCLUDING BUT NOT LIMITED TO FOUNDATION AND SLOPE STABILITY, IS THE RESPONSIBILITY OF THE OWNER. DESIGN IS BASED ON THE ASSUMPTION THAT THE MATERIAL WITHIN THE RETAINED EARTH™ MASS, METHODS OF CONSTRUCTION, AND QUALITY OF PREFABRICATED MATERIALS CONFORM TO THE MANUFACTURER'S SPECIFICATION.

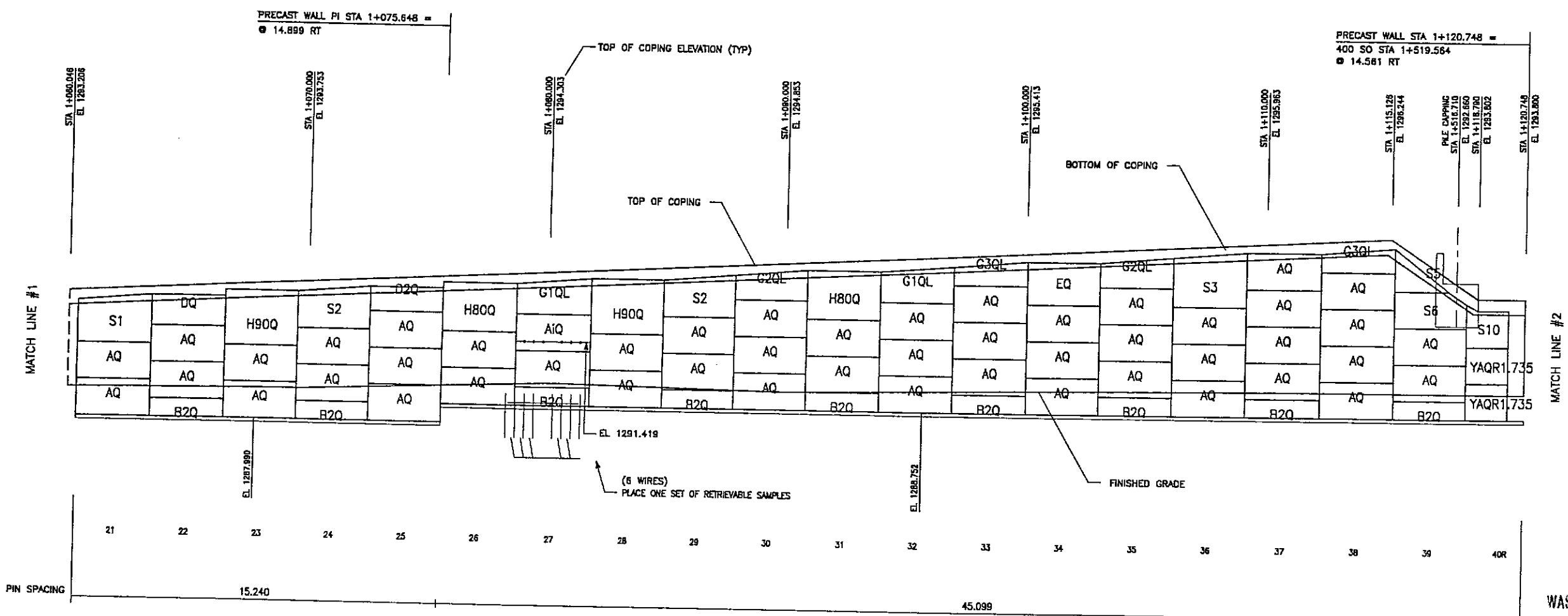


WASATCH CONSTRUCTORS
 JAN 26 1999
 RELEASED FOR CONSTRUCTION

DES.		10-09-98	MM	RETAINED EARTH™ 	NO.	DATE	BY
DRN.		10-09-98	RSW				
CHK.		10-09-98	MM				
<p>VSL CORPORATION 2810 River Place, Suite 200 Raleigh, NC 27617 Tel: (919) 781-6272 Fax: (919) 781-4869</p> <p>ATLANTA, GA / DALLAS, TX / RALEIGH, NC (CORPORATE OFFICE) MIAMI, FL / SAN JOSE, CA / SPRINGFIELD, VA</p>							
<p>UTAH 1-15 RECONSTRUCTION WALL "R-351-34" - 2ND STAGE: PRECAST WALL SALT LAKE COUNTY, UTAH UTAH DEPARTMENT OF TRANSP.</p>							
DWG. NO.		3.2-R351-34.14					
JOB NO.		239-0007					
SHT. NO.		RE-9					

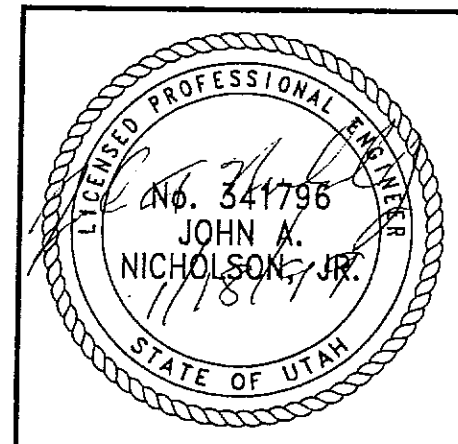
APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
1	01-08-99	RELEASE FOR 2ND STAGE CONST.

NO.	DATE	REVISION



RETAINING WALL "R-351-34" - 2ND STAGE: PRECAST WALL
 (FRONT FACE SHOWN)
 SCALE 1:100 (FULL SIZE)
 SCALE 1:200 (HALF SIZE)
 (TOTAL SURFACE AREA OF FACING = 949.18 SM)

WASATCH CONSTRUCTORS
JAN 26 1999
 RELEASED FOR CONSTRUCTION



METRIC

CERTIFIED FOR INTERNAL STABILITY OF RETAINED EARTH™ STRUCTURES ONLY. EXTERNAL STABILITY, INCLUDING BUT NOT LIMITED TO FOUNDATION AND SLOPE STABILITY, IS THE RESPONSIBILITY OF THE OWNER. DESIGN IS BASED ON THE ASSUMPTION THAT THE MATERIAL WITHIN THE RETAINED EARTH™ MASS, METHODS OF CONSTRUCTION, AND QUALITY OF PREFABRICATED MATERIALS CONFORM TO THE MANUFACTURER'S SPECIFICATION.

VSL CORPORATION
 2610 Plaza Place, Suite 200
 Raleigh, NC 27612
 Telephone: (919) 781-8572
 Fax: (919) 781-4989

VSL
 ATLANTA, GA / DALLAS, TX / BALDWIN, NC (CORPORATE OFFICE)
 MIAMI, FL / SAN JOSE, CA / SPRINGFIELD, VA

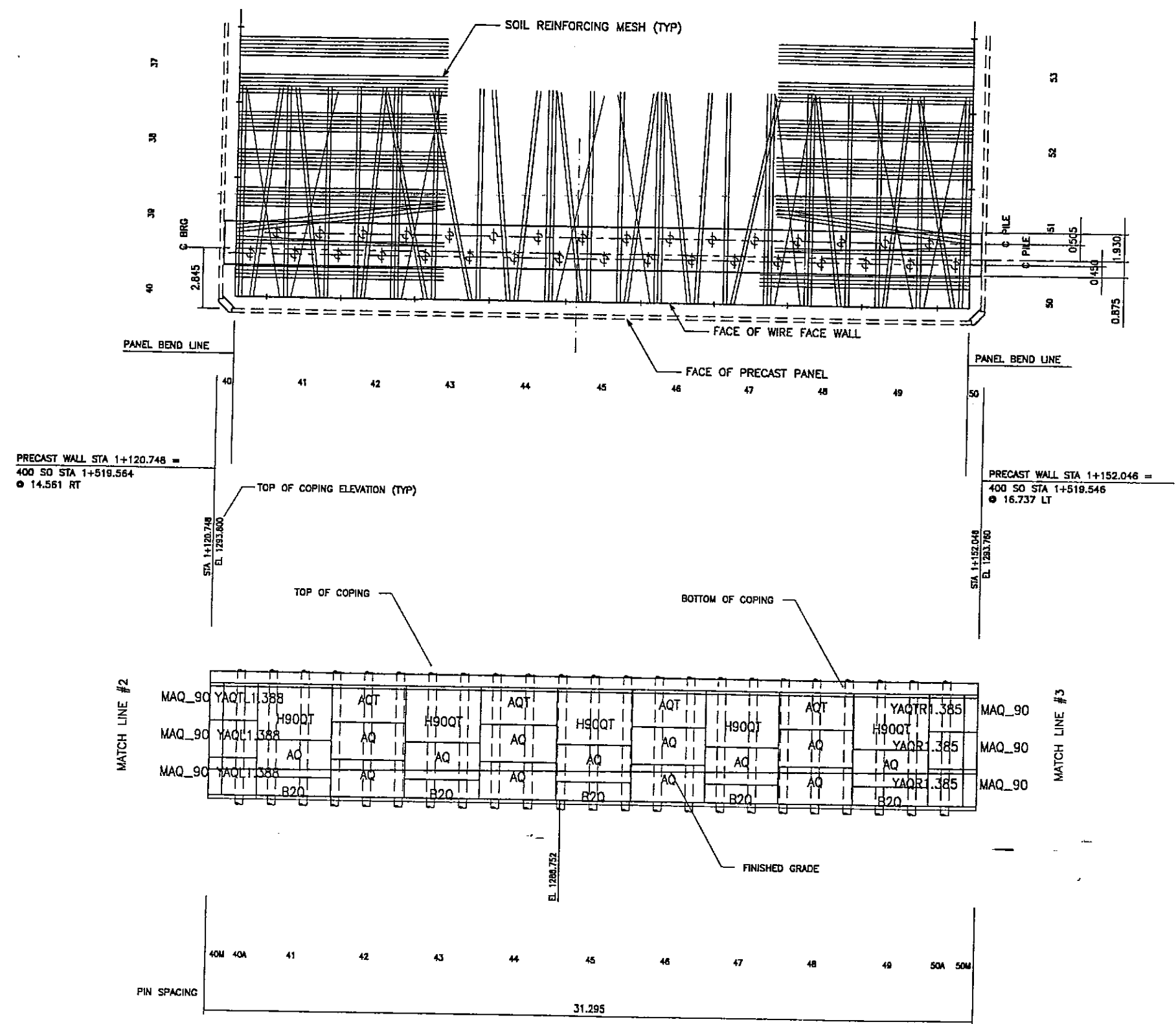
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RETAINED EARTH™ WALLS WALL "R-351-34" - 2ND STAGE: PRECAST WALL
UTAH 1-15 RECONSTRUCTION SALT LAKE COUNTY, UTAH UTAH DEPARTMENT OF TRANSP.
DWG. NO. 3.2R-R351-34.15
JOB NO. 239-0007
SHT. NO. RE-10

REFERENCE (X-UTAH)

H:\RE_EARTH\PROJECT\239-0007\2-STAGE\65-WALLS\65-34\W65-34

FINAL PLOT 01-17-99



RETAINING WALL "R-351-34" - 2ND STAGE: PRECAST WALL
 (FRONT FACE SHOWN)

SCALE 1:100 (FULL SIZE)
 SCALE 1:200 (HALF SIZE)

(TOTAL SURFACE AREA OF FACING = 949.16 SM)

METRIC

CERTIFIED FOR INTERNAL STABILITY OF RETAINED EARTH™ STRUCTURES ONLY. EXTERNAL STABILITY, INCLUDING BUT NOT LIMITED TO FOUNDATION AND SLOPE STABILITY, IS THE RESPONSIBILITY OF THE OWNER. DESIGN IS BASED ON THE ASSUMPTION THAT THE MATERIAL WITHIN THE RETAINED EARTH™ MASS, METHODS OF CONSTRUCTION, AND QUALITY OF PREFABRICATED MATERIALS CONFORM TO THE MANUFACTURER'S SPECIFICATION.

APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
△	01-08-99	RELEASE FOR 2ND STAGE CONST.

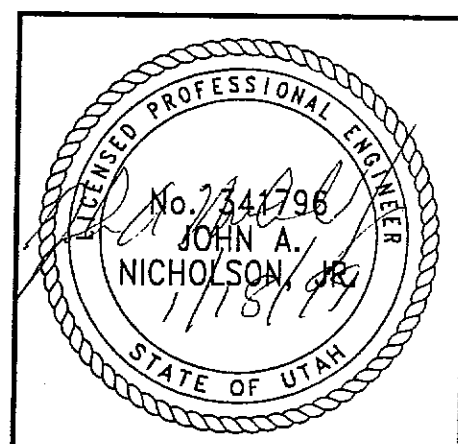
NO.	DATE	REVISION

VSL CORPORATION
 2840 Plaza Place, Suite 200
 Raleigh, NC 27617-9167
 Tel: (919) 871-4869
 Fax: (919) 871-4868

ALABAMA, GA / DALLAS, TX / RALEIGH, NC (CORPORATE OFFICE)
 MIAMI, FL / SAN JOSE, CA / SPRINGFIELD, VA

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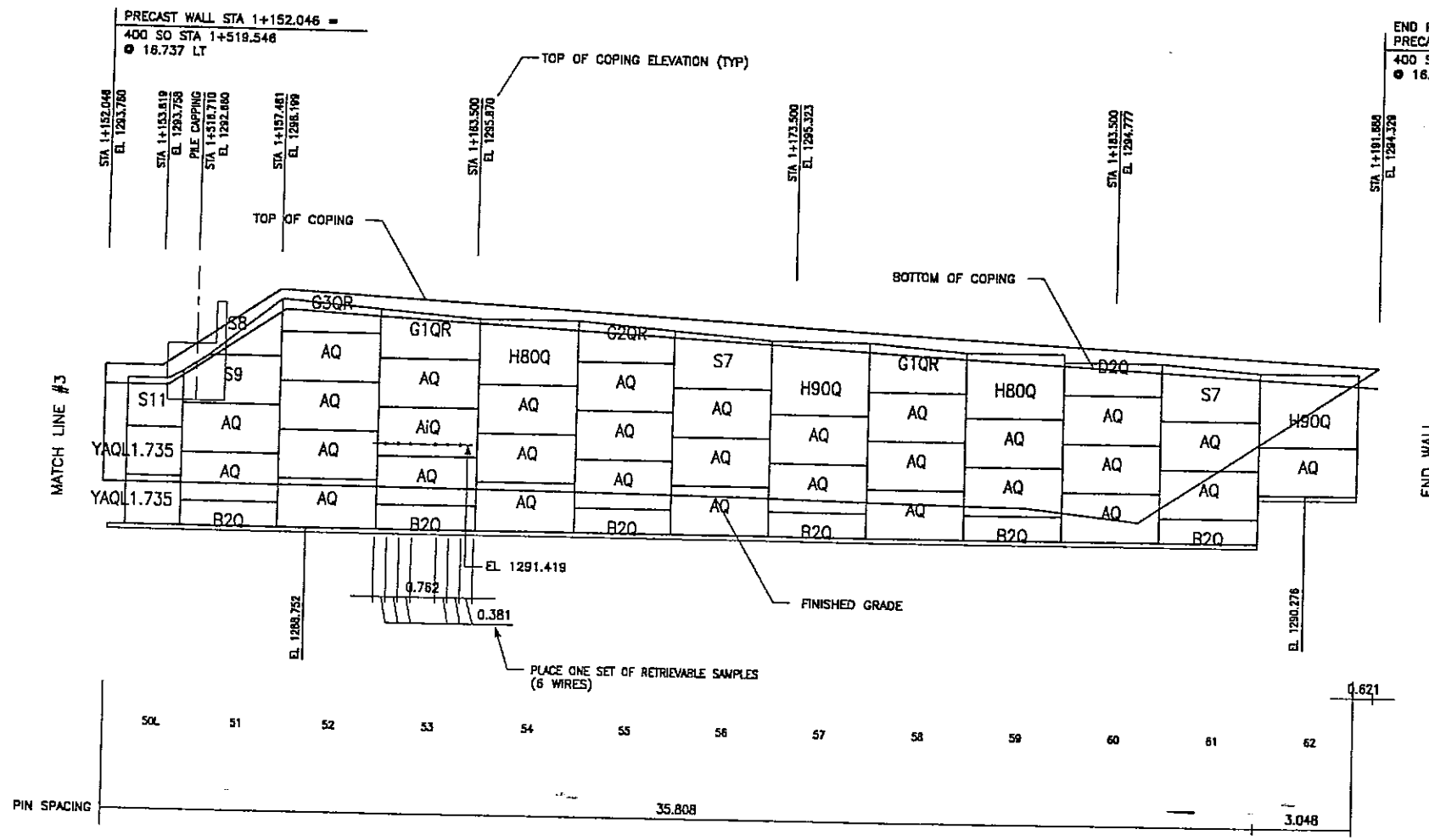
WASATCH CONSTRUCTORS
 JAN 26 1999
 RELEASED FOR CONSTRUCTION



RETAINED EARTH™ WALLS
 WALL "R-351-34" - 2ND STAGE: PRECAST WALL
 UTAH 1-15 RECONSTRUCTION
 SALT LAKE COUNTY, UTAH
 UTAH DEPARTMENT OF TRANSP.

DWG. NO.	3.2R-R351-34.16
JOB NO.	239-0007
SHT. NO.	RE-11

APPROVED FOR CONSTRUCTION		
NO.	DATE	DESCRIPTION
1	01-08-99	RELEASE FOR 2ND STAGE CONST.

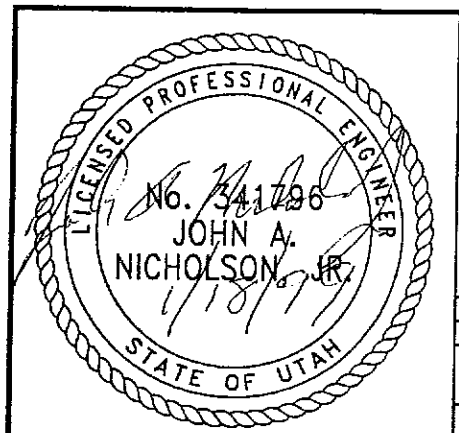


RETAINING WALL "R-351-34" - 2ND STAGE: PRECAST WALL
 (FRONT FACE SHOWN)
 SCALE 1:100 (FULL SIZE)
 SCALE 1:200 (HALF SIZE)
 (TOTAL SURFACE AREA OF FACING = 949.16 SM)

METRIC

CERTIFIED FOR INTERNAL STABILITY OF RETAINED EARTH™ STRUCTURES ONLY. EXTERNAL STABILITY, INCLUDING BUT NOT LIMITED TO FOUNDATION AND SLOPE STABILITY, IS THE RESPONSIBILITY OF THE OWNER. DESIGN IS BASED ON THE ASSUMPTION THAT THE MATERIAL WITHIN THE RETAINED EARTH™ MASS, METHODS OF CONSTRUCTION, AND QUALITY OF PREFABRICATED MATERIALS CONFORM TO THE MANUFACTURER'S SPECIFICATION.

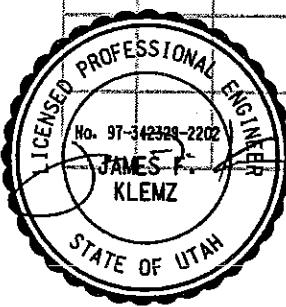
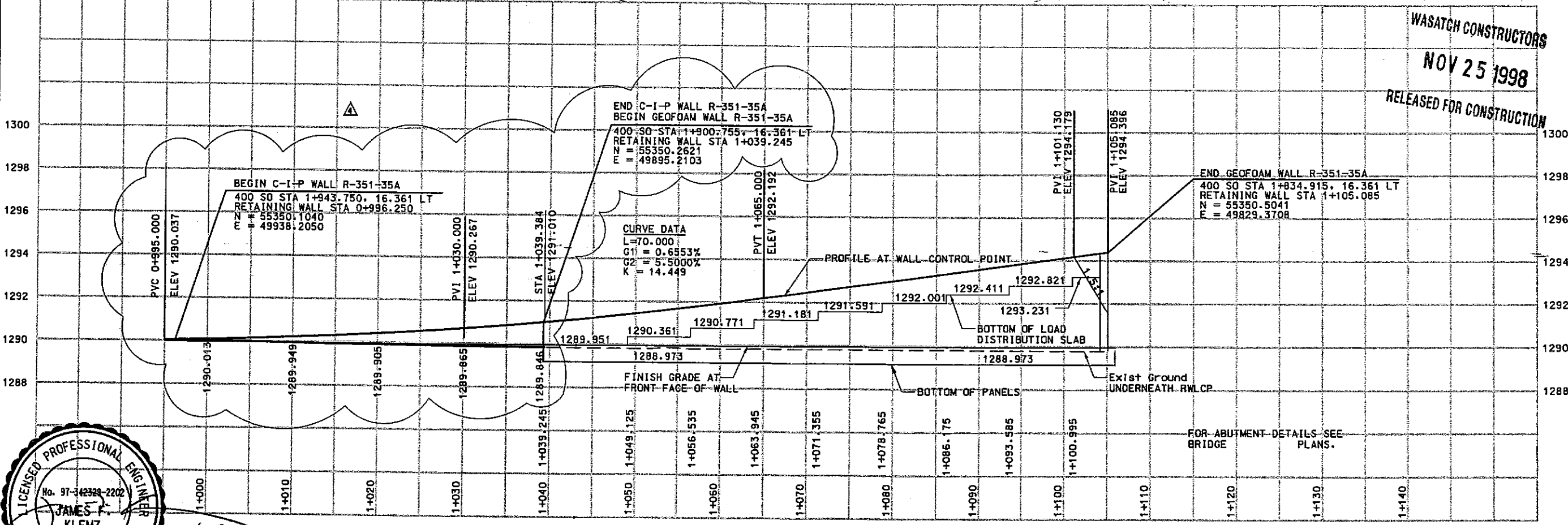
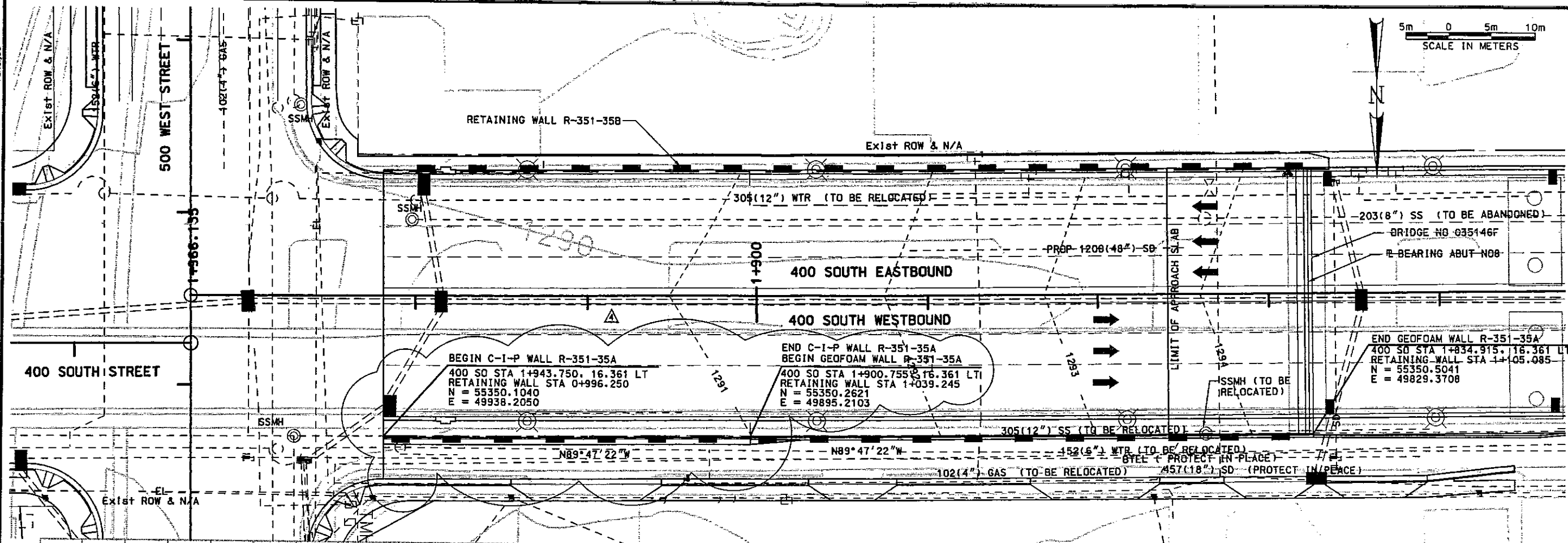
WASATCH CONSTRUCTORS
JAN 26 1999
 RELEASED FOR CONSTRUCTION



DES.		10-09-98		MM	NO.	DATE	BY	CHK
DRN	RSW	10-09-98	RSW					
CHK	MM	10-09-98	MM					
VSL CORPORATION 2810 Plain Place, Suite 200 Raleigh, NC 27612 Telephone: (919) 781-6272 Fax: (919) 781-4989						RETAINED EARTH™ ATLANTA, GA / DALLAS, TX / RALEIGH, NC (CORPORATE OFFICE) MIAMI, FL / SAN JOSE, CA / SPRINGFIELD, VA		
RETAINED EARTH™ WALLS WALL "R-351-34" - 2ND STAGE: PRECAST WALL UTAH 1-15 RECONSTRUCTION SALT LAKE COUNTY, UTAH UTAH DEPARTMENT OF TRANSP.								
DWG. NO. 3.2R-R351-34.17								
JOB NO. 239-0007								
SHEET NO. RE-12								

Date: 16-NOV-1998 Time: 08:23 User: nme.vandjlec

Filename: c:\dgn\115_cadd\06_97\sheet_1\file\wall\06_wall_35a.dgn



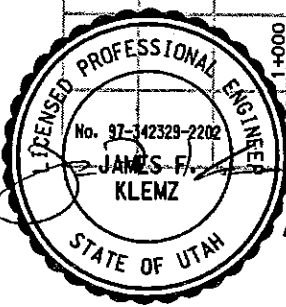
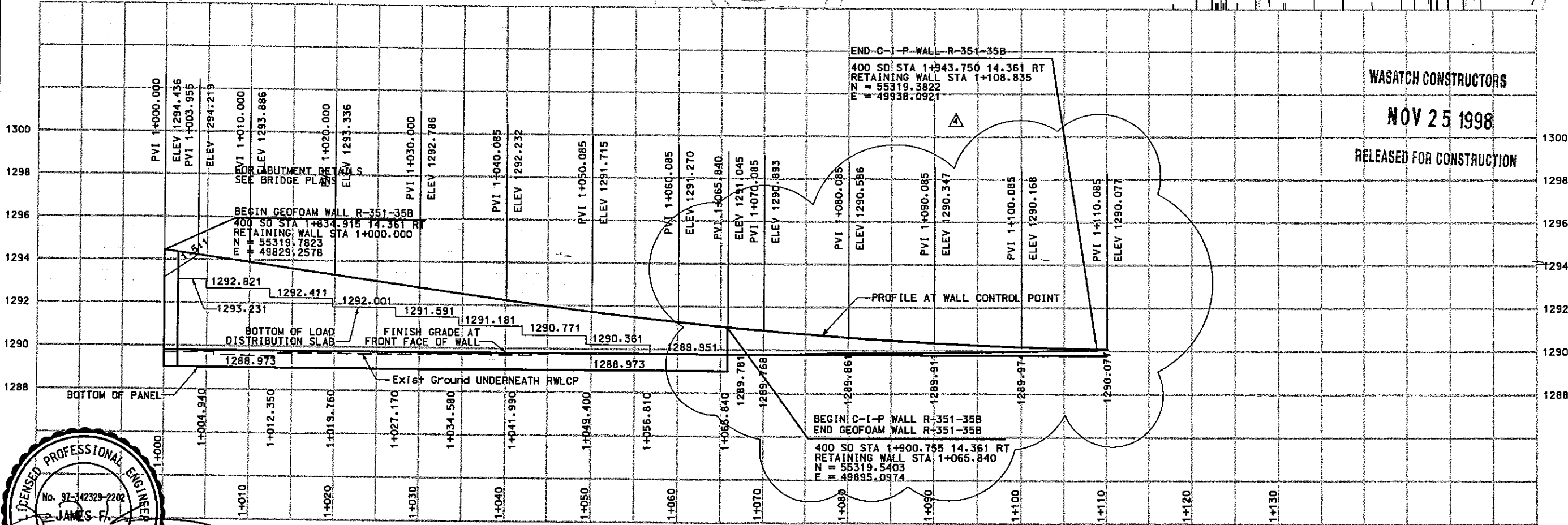
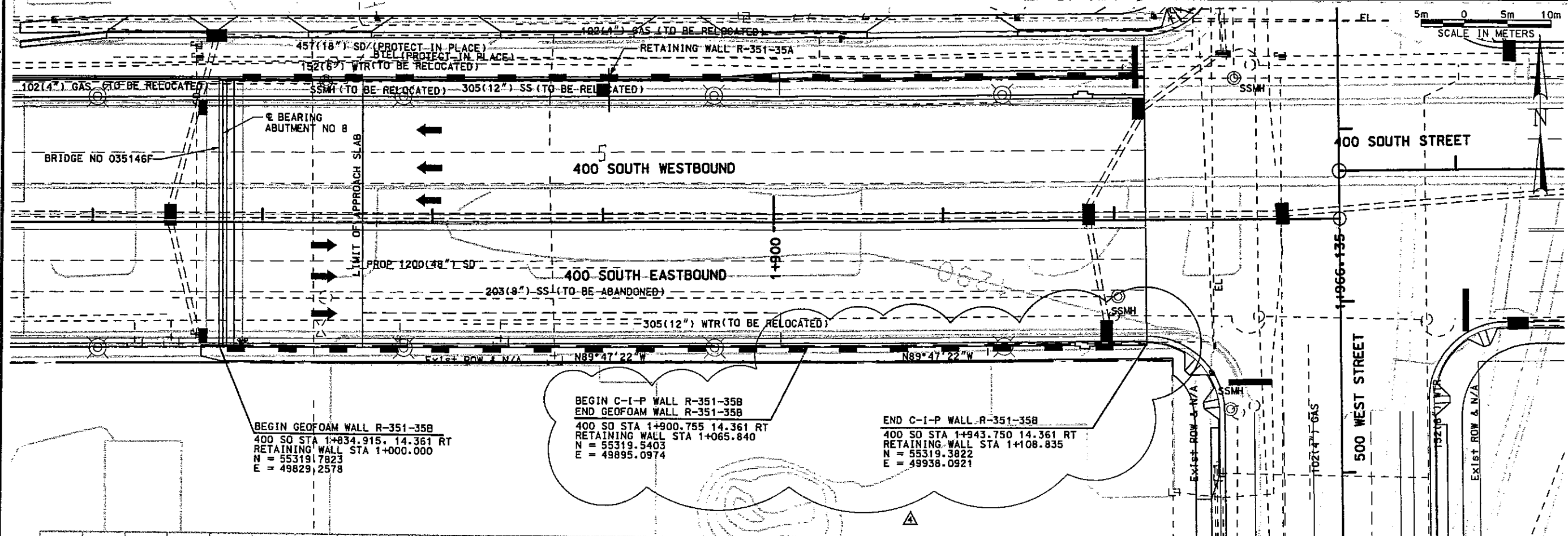
WALL R-351-35A
FRONT FACE OF WALL

WASATCH CONSTRUCTORS
NOV 25 1998
RELEASED FOR CONSTRUCTION

APPROVED FOR CONSTRUCTION	
NO.	DATE
1	03/06/98 RELEASE FOR GEOFOAM WALL ONLY
2	07/02/98 RELEASED-BARRIER-BEFORE-NEW
3	11/13/98 RELEASE FOR C-I-P WALL ONLY
UTAH DEPARTMENT OF TRANSPORTATION	
SVERDRUP/DE LEUW	
APPROVAL RECORD:	DESIGN JFA 11/13/98 CHECK RT 11/13/98
DATE 11/13/98	DRAWN SYD 11/13/98
PROJECT DESIGN ENGINEER MARVIN COOK	CHECK RT 11/13/98
PROJECT NUMBER #SP-15-7(135)296	SECTION MANAGER KEITH SABOL
DATE 11/13/98	QUANT. 3212419
SECTION 3.2	
SALT LAKE COUNTY	
DWG. NO. 3.2-R351-35.1	
SHT. 1	OF 8

Date: 16-NOV-1998 Time: 08:25 User: rname.vandjsec

Filename: c:\dov\115_cadd\06_97\sheet_files\wall\05_wall_35b.dgn



WALL R-351-35B
FRONT FACE OF WALL

WASATCH CONSTRUCTORS
NOV 25 1998
RELEASED FOR CONSTRUCTION

APPROVED FOR CONSTRUCTION		DESCRIPTION	
NO.	DATE	NO.	DESCRIPTION
1	03/06/98	1	RELEASE FOR GEORAM WALL ONLY
2	07/04/98	2	RELEASE FOR BRIDGE PLANS
3	07/04/98	3	RELEASED BARRIER DESIGN REF.
4	11/13/98	4	RELEASE FOR C-I-P WALL

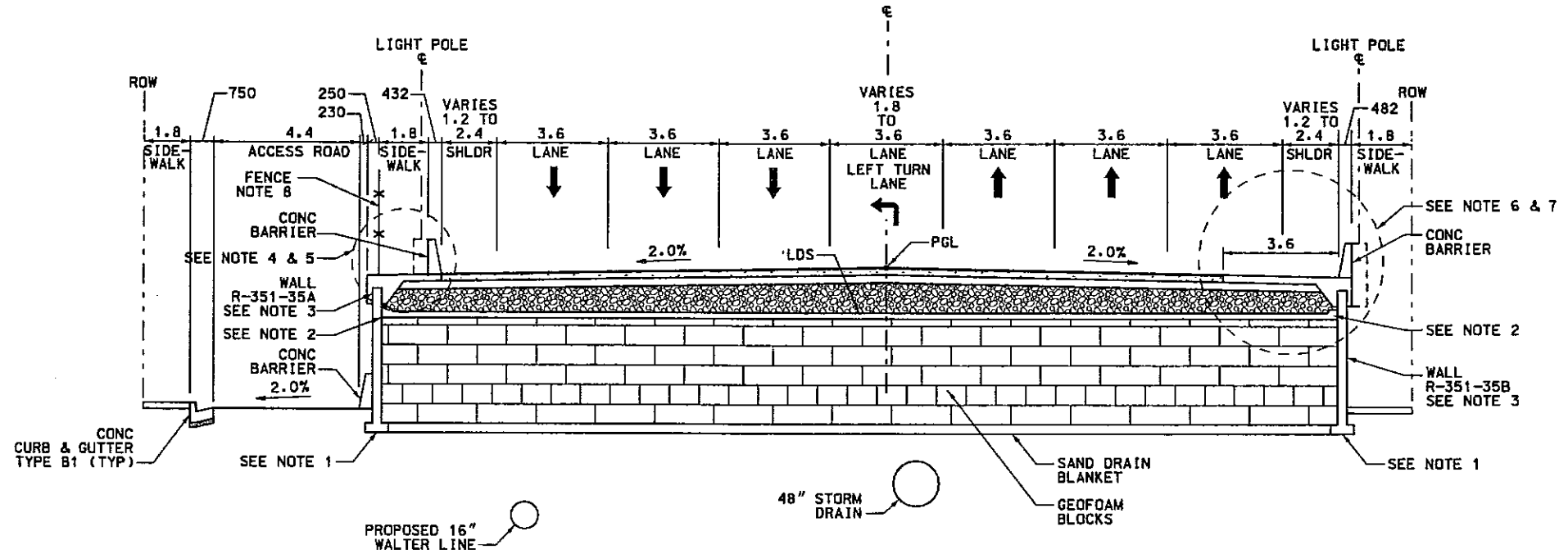
UTAH DEPARTMENT OF TRANSPORTATION		SVERDRUP/DE LEUW	
NO.	DATE	NO.	DATE
1	11/13/98	1	11/13/98
2	11/13/98	2	11/13/98
3	11/13/98	3	11/13/98

I-15 CORRIDOR RECONSTRUCTION		SITUATION & LAYOUT	
SECTION	PROJECT NUMBER	SECTION	PROJECT NUMBER
SECTION 3.2	*SP-15-7(135)296	SECTION 3.2	*SP-15-7(135)296

SALT LAKE COUNTY	
DWG. NO.	DATE
3.2-R351-35.2	11/13/98

APPROVAL	DATE	DESIGN	CHECK	DATE
MARVIN COOK	11/13/98	JFA	JFA	11/13/98
PROJECT DESIGN ENGINEER		SVD	SVD	11/13/98
APPROVED	11/13/98	SECTION MANAGER		

QUANT.	3212419
3212419	

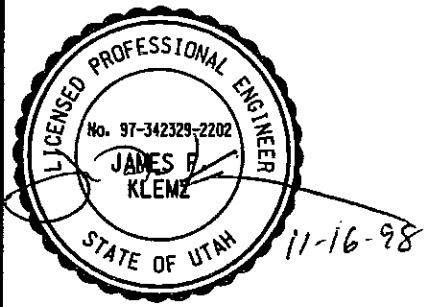


RETAINING WALL DETAILS
NTS

WALL R-351-35A STA 1+039.245 TO 1+105.085
 WALL R-351-35B STA 1+000.000 TO 1+065.840
 400 SOUTH STA 1+834.915 TO 1+943.750

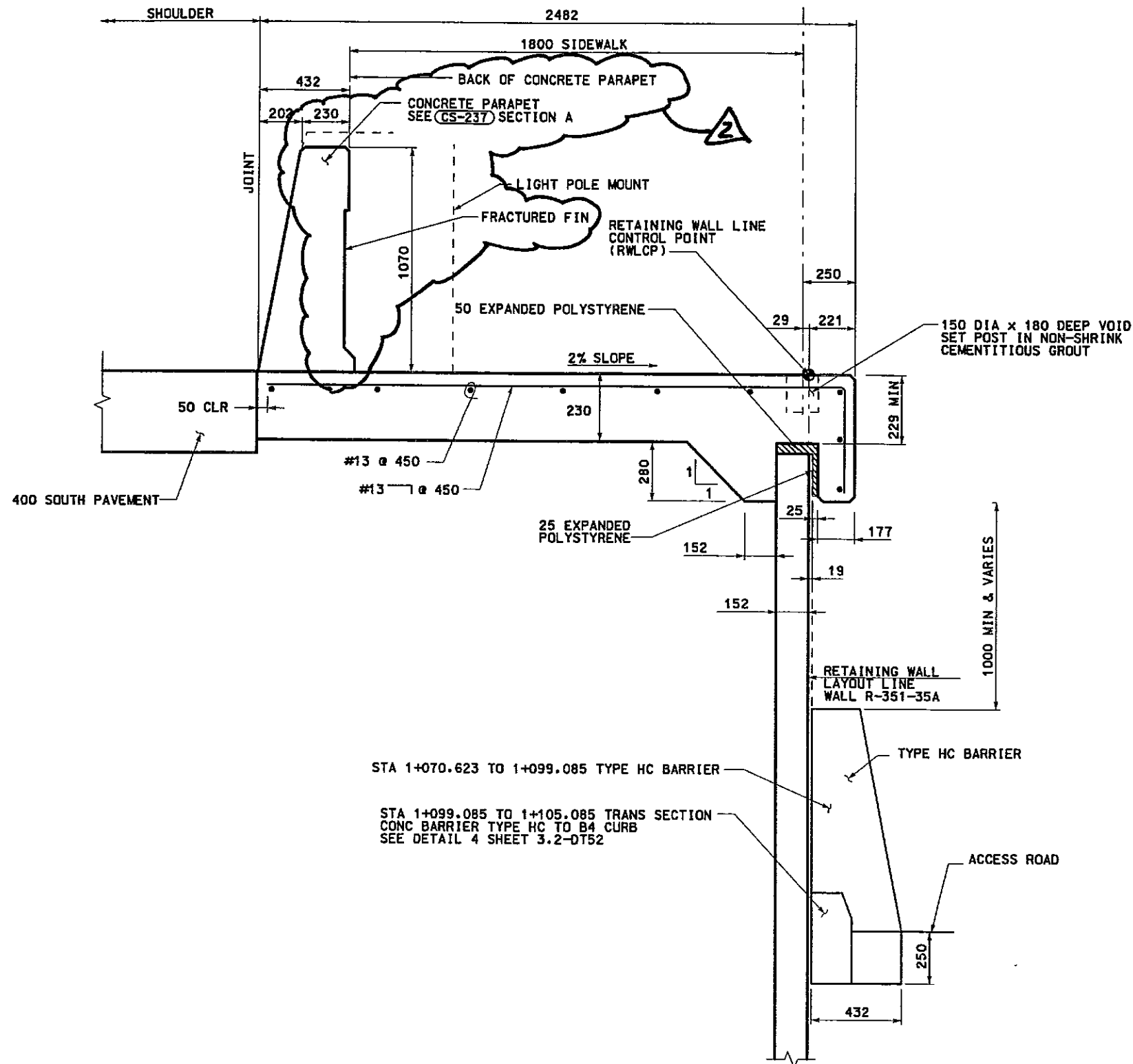
- NOTES:
- 1) FOR GRADE BEAM AND GRADE BEAM STEP DETAILS SEE CS-46
 - 2) FOR WALL TO LDS RESTRAINT DETAILS SEE CS-45
 - 3) FOR PRECAST WALL PANEL DETAILS SEE CS-44
 - 4) FOR COPING AND MOMENT SLAB DETAILS FOR GEOFOAM WALL R-351-35A SEE DWG NO 3.2-R351-35.4 AND 3.2-R351-35.5
 - 5) FOR C-I-P WALL R-351-35A DETAILS SEE DWG NO 3.2-R351-35.5
 - 6) FOR COPING AND MOMENT SLAB DETAILS FOR GEOFOAM WALL R-351-35B SEE DWG NO 3.2-R351-35.7
 - 7) FOR C-I-P WALL R-351-35B DETAILS SEE DWG NO 3.2-R351-35.7
 - 8) FOR FENCE LIMITS SEE BRIDGE 035146F PLAN SHEET 64 OF 67

WASATCH CONSTRUCTORS
 NOV 25 1998
 RELEASED FOR CONSTRUCTION



APPROVED FOR CONSTRUCTION		DESCRIPTION	
NO.	DATE		
A	03/06/98	RELEASE FOR GEOFOAM STAGE 1 ONLY	
B	03/09/98	RELEASE FOR C-I-P WALL RELEASE FOR C-I-P WALL	
C	03/09/98	RELEASE FOR C-I-P WALL	
D	11/13/98	RELEASE FOR C-I-P WALL	

UTAH DEPARTMENT OF TRANSPORTATION		SVERDRUP/DE LEUW	
DESIGN	JFA 11/13/98	CHECK	MC 11/13/98
DRAWN	SYD 11/13/98	CHECK	MC 11/13/98
QUANT.		CHECK	
PROJECT NUMBER	3212419		
SECTION	TYPICAL SECTION		
SECTION	SECTION 3.2		
PROJECT NUMBER	*SP-15-7(135)296		
COUNTY	SALT LAKE		
DWG. NO.	3.2-R351-35.3		
SHT.	3	OF	8



STA 1+070.623 TO 1+099.085 TYPE HC BARRIER

STA 1+099.085 TO 1+105.085 TRANS SECTION
CONC BARRIER TYPE HC TO B4 CURB
SEE DETAIL 4 SHEET 3.2-DT52

NOTES

- 50mm MINIMUM COVER OVER REINFORCING
- USE PCC $f'c=27.5$ MPa (4000 PSI) FOR MOMENT SLAB
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED
- LOCATE TRANSVERSE CONSTRUCTION JOINTS AT A MINIMUM 16 METER SPACING
- CROSS SLOPE OF MOMENT SLAB SHALL MATCH ROADWAY CROSS SLOPE

GEOFOAM WITH FENCE, LIGHT POLE MOUNT, AND BARRIER ON MOMENT SLAB

WALL R-351-35A

STA 1+039.245 TO STA 1+105.085
NTS



WASATCH CONSTRUCTORS

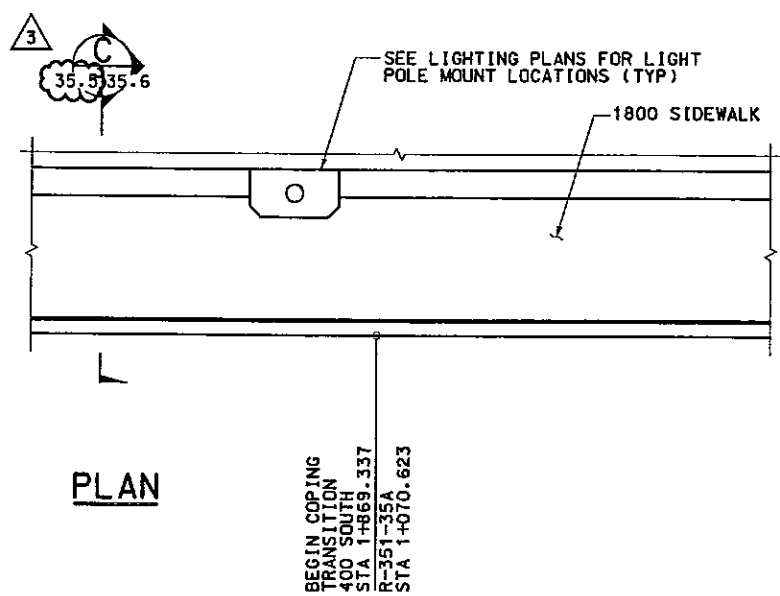
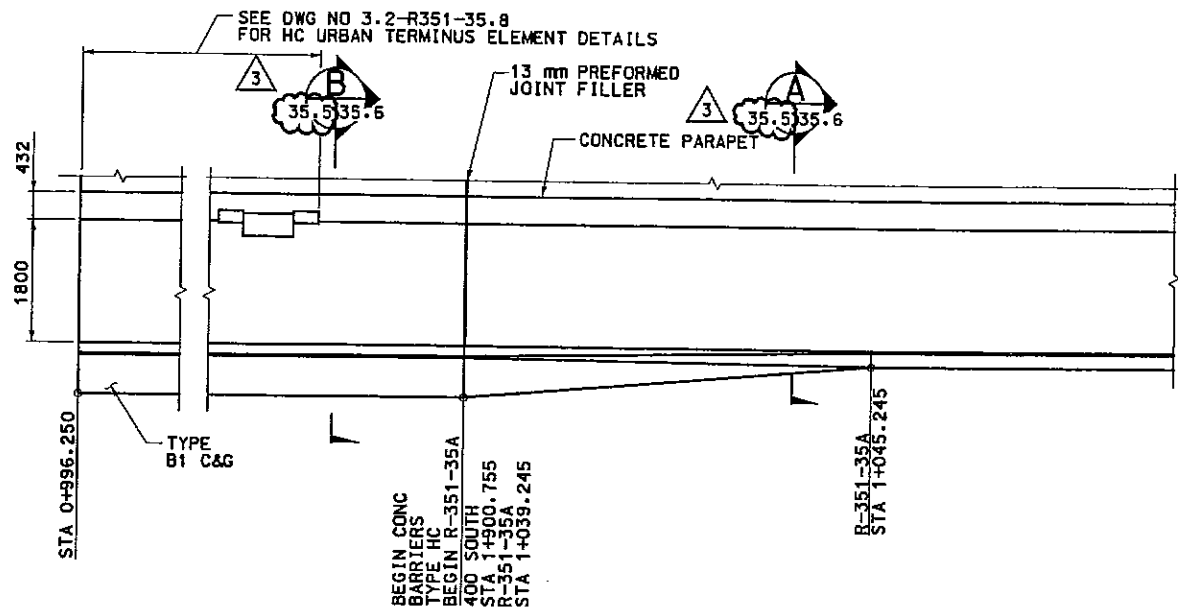
MAR 31 1999

RELEASED FOR CONSTRUCTION

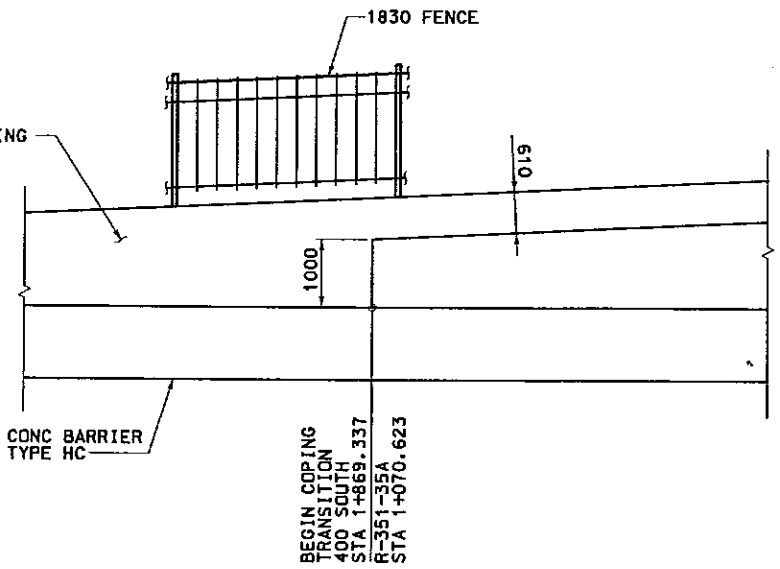
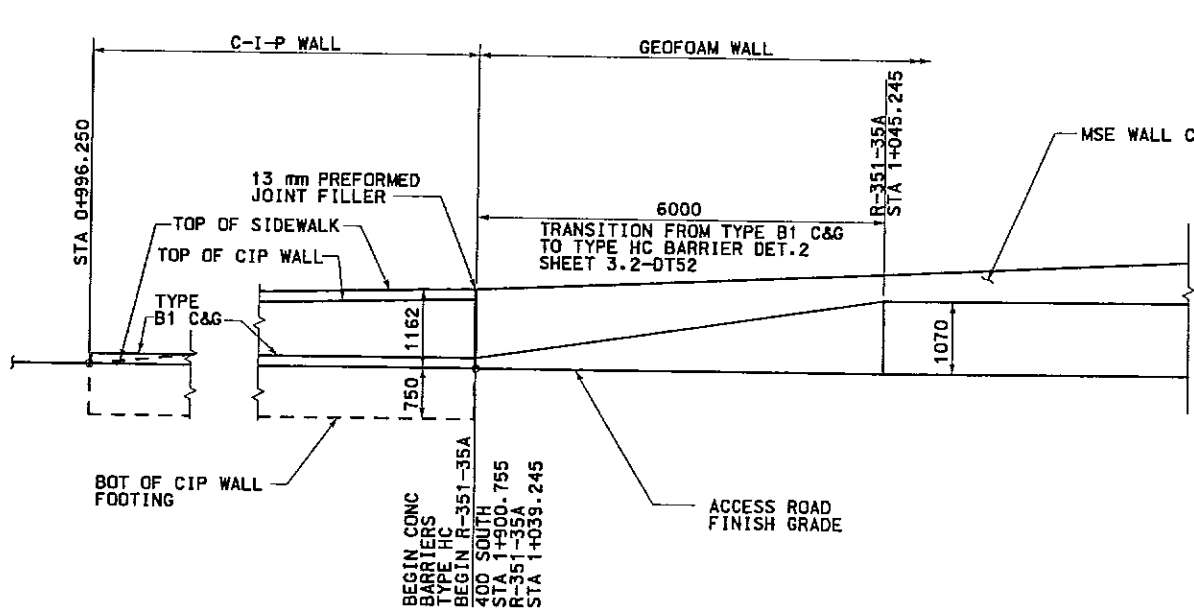
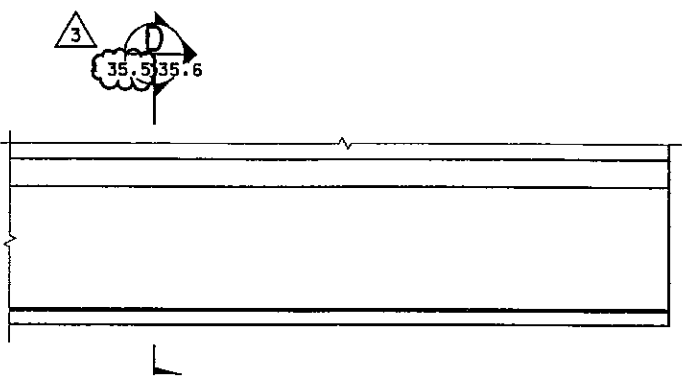
APPROVED FOR CONSTRUCTION		DESCRIPTION	
NO.	DATE	NO.	DATE
1	11/13/98	1	11/13/98
2	03/04/99	2	03/04/99
RELEASE FOR CONSTRUCTION		REVISED CONCRETE PARAPET ON MOMENT SLAB PER SLC COMMENT	
UTAH DEPARTMENT OF TRANSPORTATION			
SVERDRUP/DE LEUW		3212419	
DESIGN	CHECK	MC	MC
RH	11/13/98	11/13/98	11/13/98
CRANK	MJS	11/13/98	11/13/98
QUANT.			
PROJECT ENGINEER	SECTION MANAGER		
MARVIN COOK	KEITH SABOL		
DATE	DATE		
11/13/98	11/13/98		
APPROVAL			
RECOMM.			
I-15 CORRIDOR RECONSTRUCTION			
TYPICAL SECTION			
SECTION 3.2			
PROJECT NUMBER		#SP-15-7(135)296	
SALT LAKE COUNTY			
DWG. NO. 3.2 R-351-35.4			
SHT. 4 OF 8			

Date: 19-MAY-1999 Time: 16:23 User Name: klemzjtycr

Filename: c:\adg\115_eadd\06_97\sheet_7\file\wall\06_wall_35y.dgn



PLAN



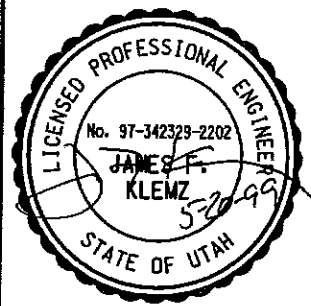
ELEVATION

400 SOUTH

WALL R-351-35A C-I-P WALL AND GEOFOAM WALL INTERFACE

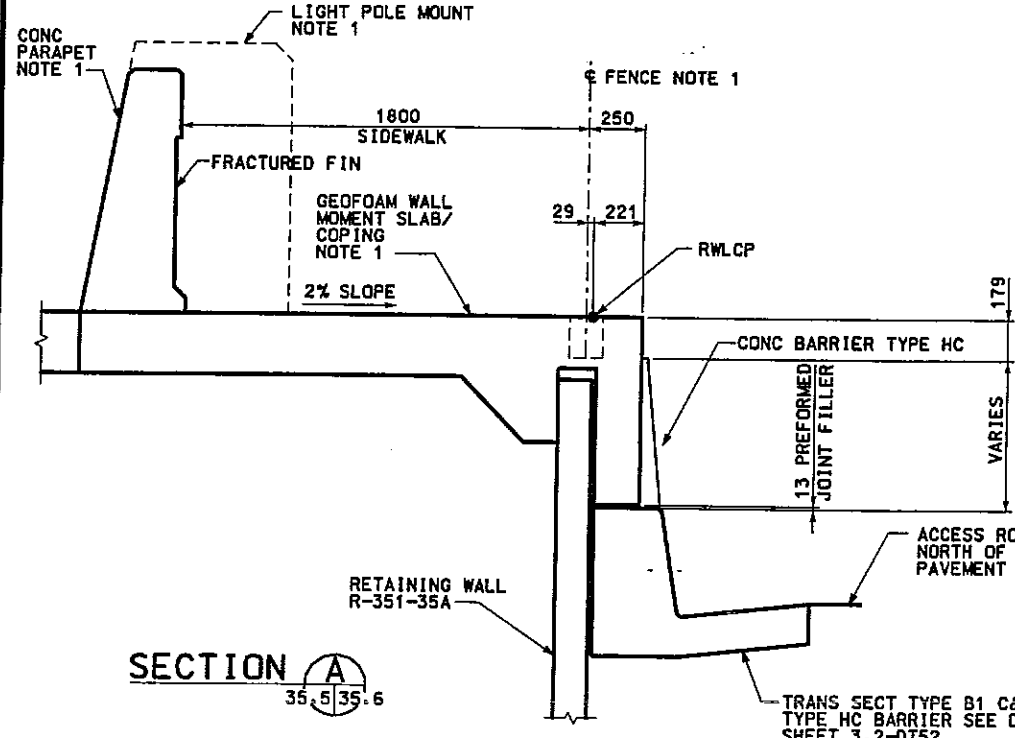
NTS

WASATCH CONSTRUCTORS
 JUN 0 3 1999
 RELEASED FOR CONSTRUCTION

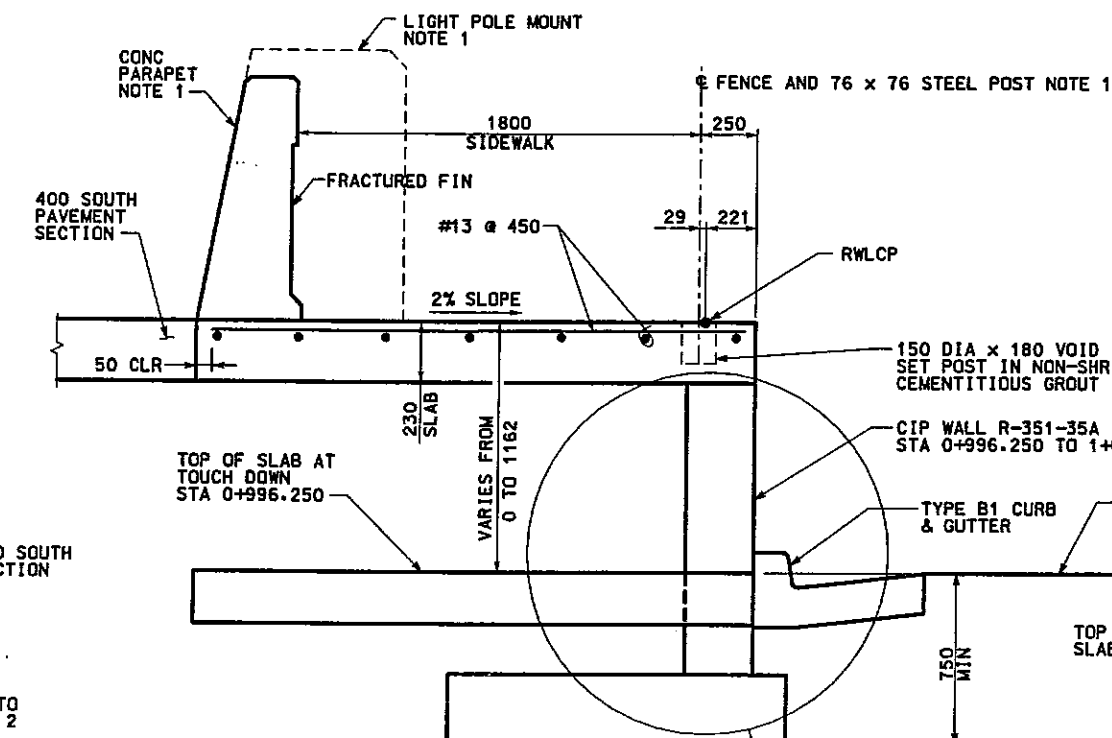


APPROVED FOR CONSTRUCTION		UTAH DEPARTMENT OF TRANSPORTATION		SVERDRUP/DE LEUW	
NO.	DATE	DESIGN	CHECK	DESIGN	CHECK
A	11/13/98	MJB	11/13/98	DAS	11/13/98
A	03/05/99	MJB	11/13/98	DAS	11/13/98
A	05/21/99	MJB	11/13/98	DAS	11/13/98
DESCRIPTION		QUANT.		3212419	
RELEASE FOR CONSTRUCTION					
REVISED CONCRETE BARRIER PER SLC COMMENT					
FINAL SUBMITTAL COMMENTS					
I-15 CORRIDOR RECONSTRUCTION		SECTION 3.2		PROJECT NUMBER #SP-15-7(135)296	
SPECIAL DETAILS		MARVIN COOK PROJECT DESIGN ENGINEER		KEITH SABOL SECTION MANAGER	
DATE		11/13/98		DATE	
APPROVAL		11/13/98		DATE	
RECORD		11/13/98		DATE	
SALT LAKE COUNTY		DWG. NO.		3.2-R351-35.5	
SHT.	5	OF	8		

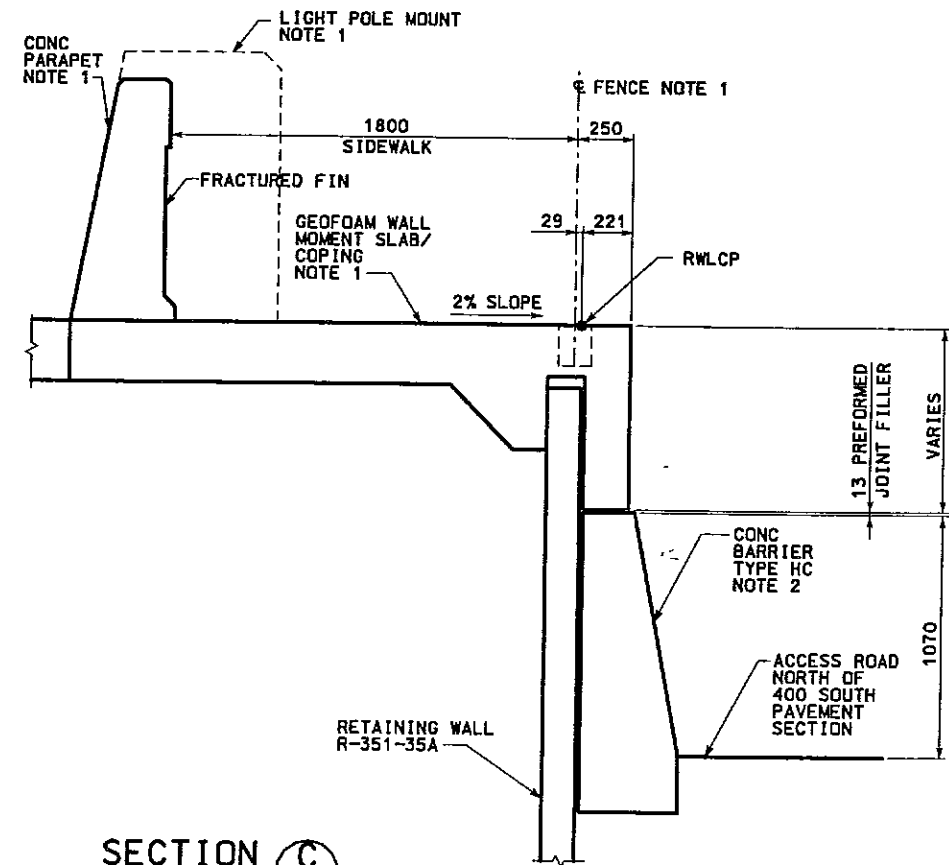
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 Date: 11/13/98 11:59:44 User name: juser@utah.gov



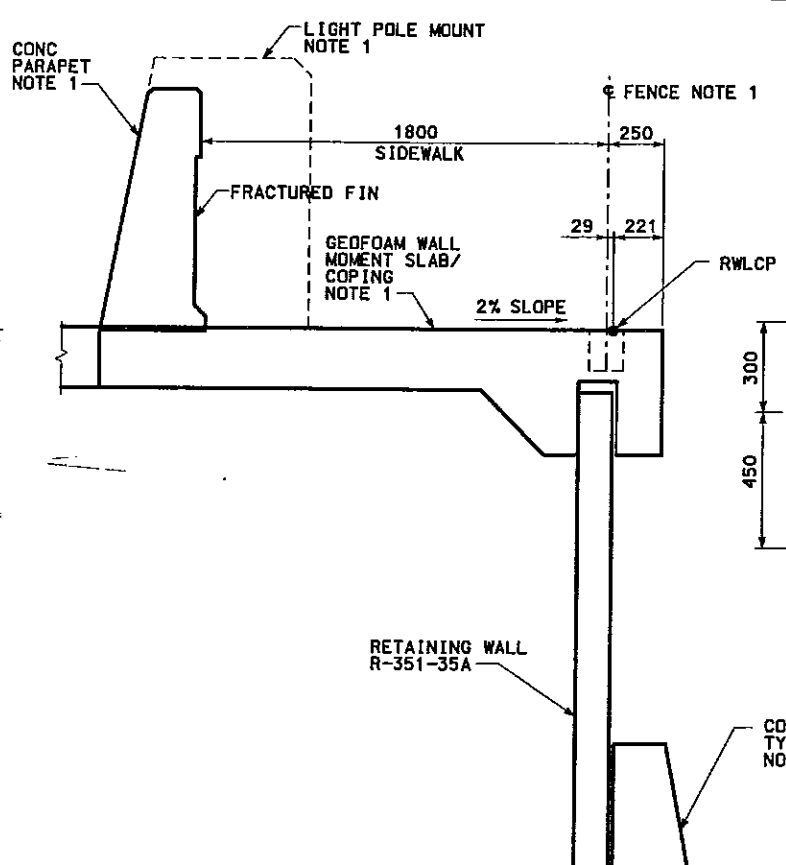
SECTION A
35.5 | 35.6



SECTION B
35.5 | 35.6

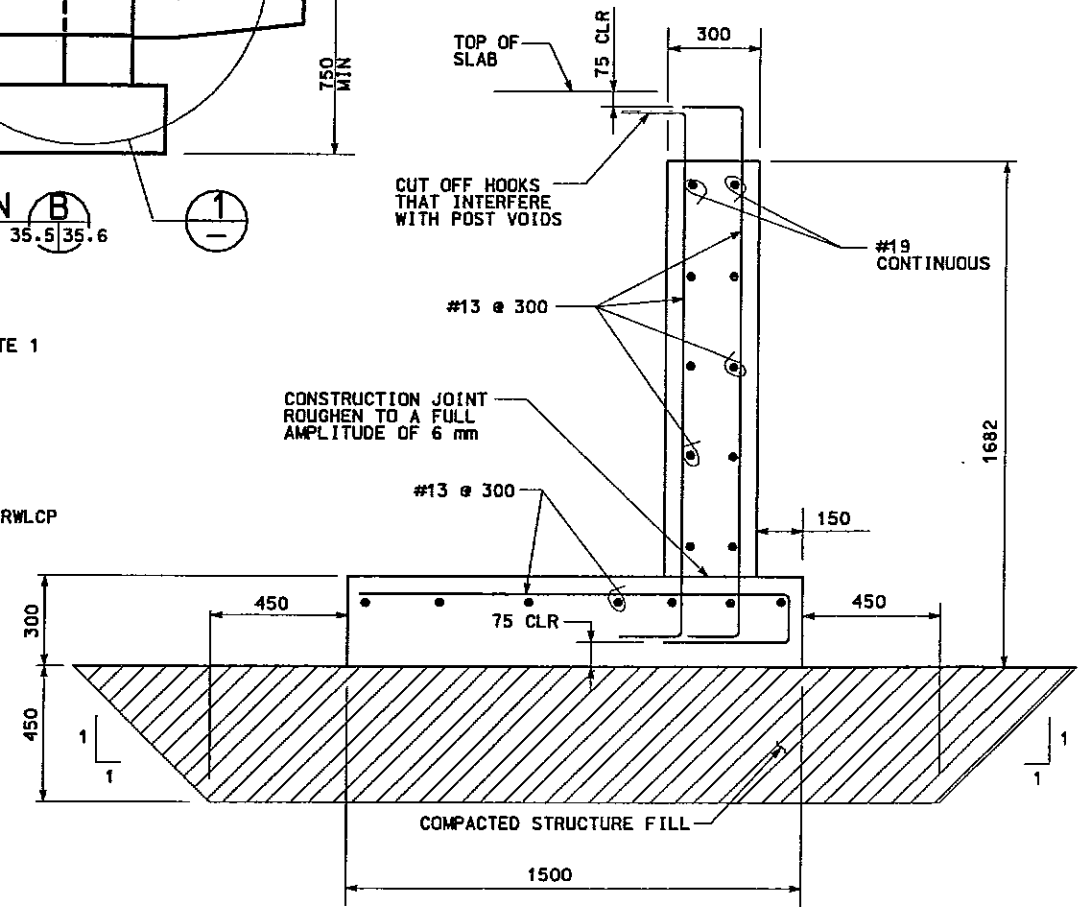


SECTION C
35.5 | 35.6



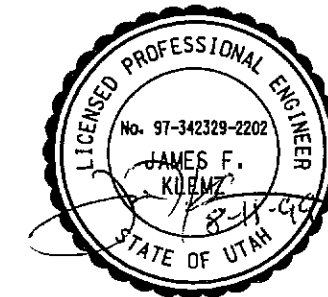
SECTION D
35.5 | 35.6

- NOTES:**
- SEE DWG NO 3.2-R351-35.4 FOR FENCE, CONCRETE PARAPET, LIGHT POLE MOUNT, AND SLAB REINFORCING
 - SEE CS-68 FOR CONCRETE BARRIER TYPE HC DETAILS ON ACCESS ROAD
 - USE f'c=25.3 Mpa CONCRETE FOR CIP RETAINING WALLS.



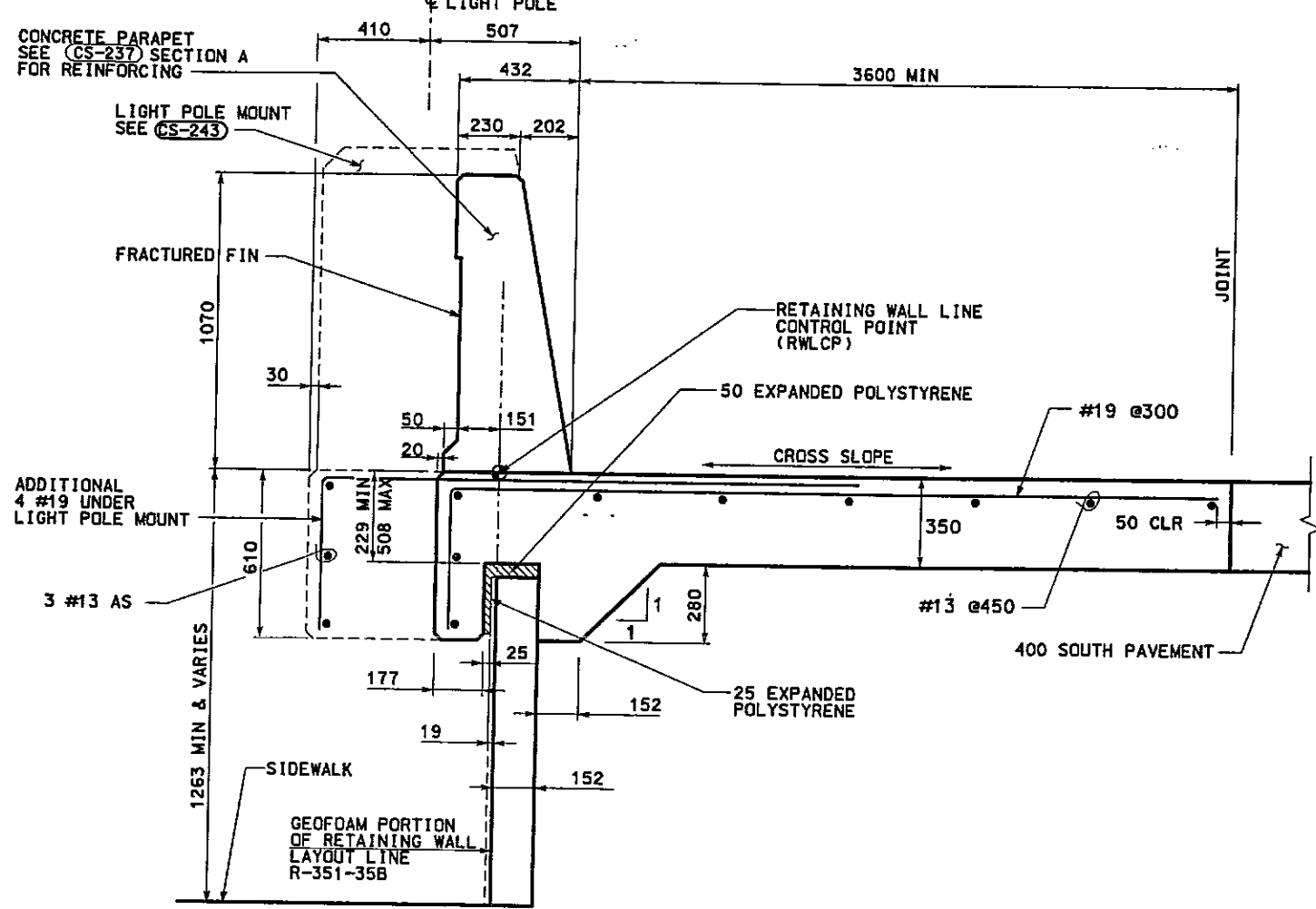
DETAIL 1

WASATCH CONSTRUCTORS
 AUG 31 1999
 RELEASED FOR CONSTRUCTION

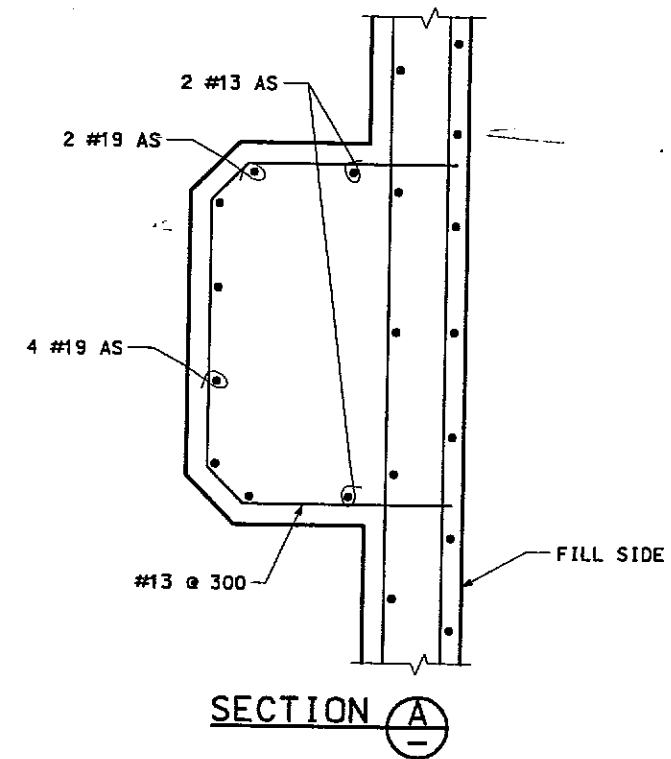


APPROVED FOR CONSTRUCTION		DESCRIPTION	
NO.	DATE	NO.	DATE
1	11/13/98	1	11/13/98
2	03/05/99	2	03/05/99
3	05/21/99	3	05/21/99
4	08/13/99	4	08/13/99
RELEASE FOR CONSTRUCTION		REVISED CONCRETE BARRIER PER SLC COMMENT	
REVISED CONCRETE BARRIER PER SLC COMMENT		FINAL SUBMITTAL COMMENTS	
FINAL SUBMITTAL COMMENTS		FINAL RESUBMITTAL COMMENTS	
3212419		3212419	
SYVERDRUP/DE LEUW		SYVERDRUP/DE LEUW	
DESIGN	CHECK	DATE	CHECK
MJB	DAS	11/13/98	11/13/98
PROJECT DESIGN ENGINEER	PROJECT DESIGN ENGINEER	DATE	DATE
MARVIN COOK	KEITH SABOL	11/13/98	11/13/98
APPROVED	SECTION MANAGER	DATE	DATE
11/13/98	11/13/98	11/13/98	11/13/98
UTAH DEPARTMENT OF TRANSPORTATION		UTAH DEPARTMENT OF TRANSPORTATION	
I-15 CORRIDOR RECONSTRUCTION		I-15 CORRIDOR RECONSTRUCTION	
SPECIAL DETAILS		SPECIAL DETAILS	
SECTION 3.2		SECTION 3.2	
PROJECT NUMBER		PROJECT NUMBER	
*SP-15-7(135)296		*SP-15-7(135)296	
SALT LAKE COUNTY		SALT LAKE COUNTY	
DWG. NO.		DWG. NO.	
3.2-R351-35.6		3.2-R351-35.6	
SHT. 6 OF 8		SHT. 6 OF 8	

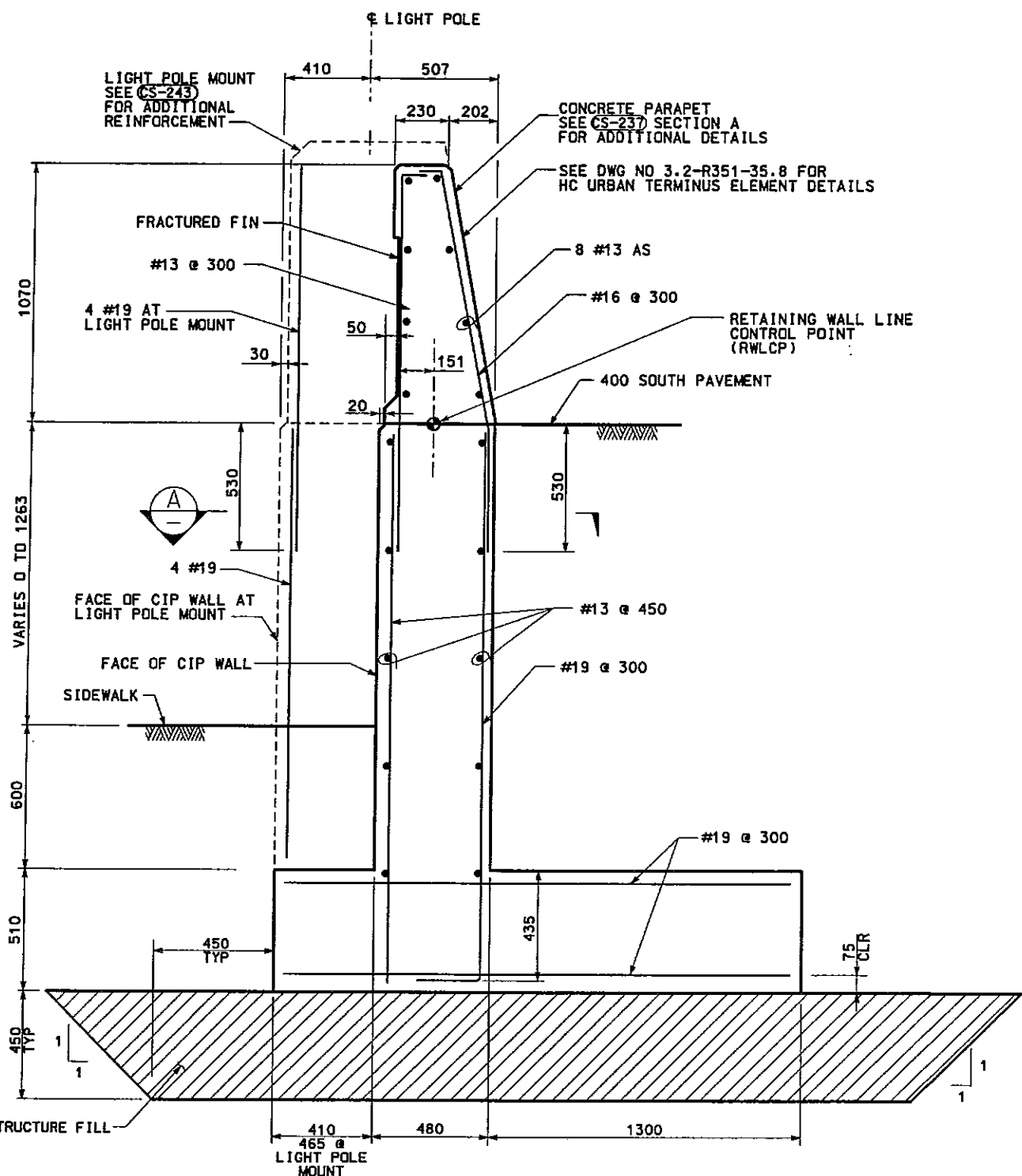
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GEOFOAM WALL R-351-35B WITH BARRIER & LIGHT POLE MOUNT ON MOMENT SLAB
 STA 1+000.000 TO STA 1+065.840
 NTS



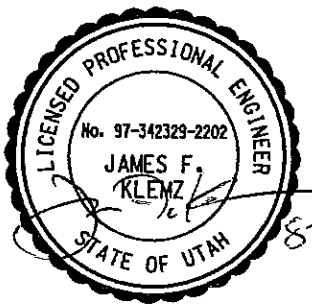
SECTION A



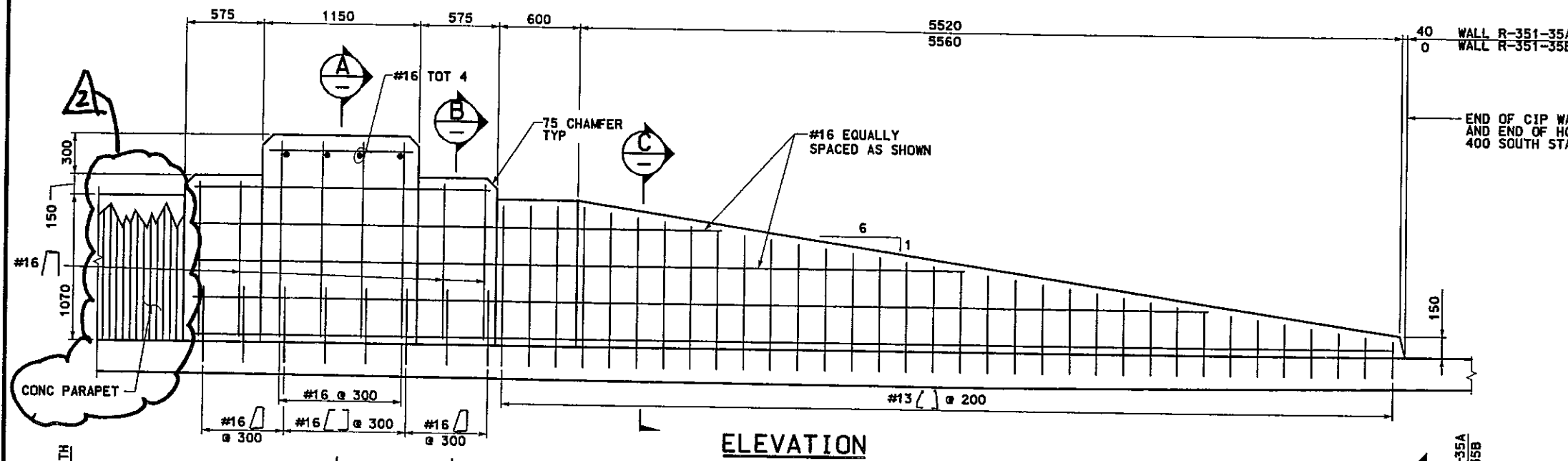
CIP RETAINING WALL R-351-35B
 STA 1+065.840 TO STA 1+108.835
 NTS

WASATCH CONSTRUCTORS
 AUG 31 1999
 RELEASED FOR CONSTRUCTION

- NOTES**
- 50mm MINIMUM COVER OVER REINFORCING
 - USE PCC $f'c=27.5$ MPa (4000 PSI) FOR MOMENT SLAB
 - ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED
 - LOCATE TRANSVERSE CONSTRUCTION JOINTS AT A MINIMUM 16 METER SPACING
 - CROSS SLOPE OF MOMENT SLAB SHALL MATCH ROADWAY CROSS SLOPE
 - USE $f'c=25.3$ MPa CONCRETE FOR CIP RETAINING WALLS

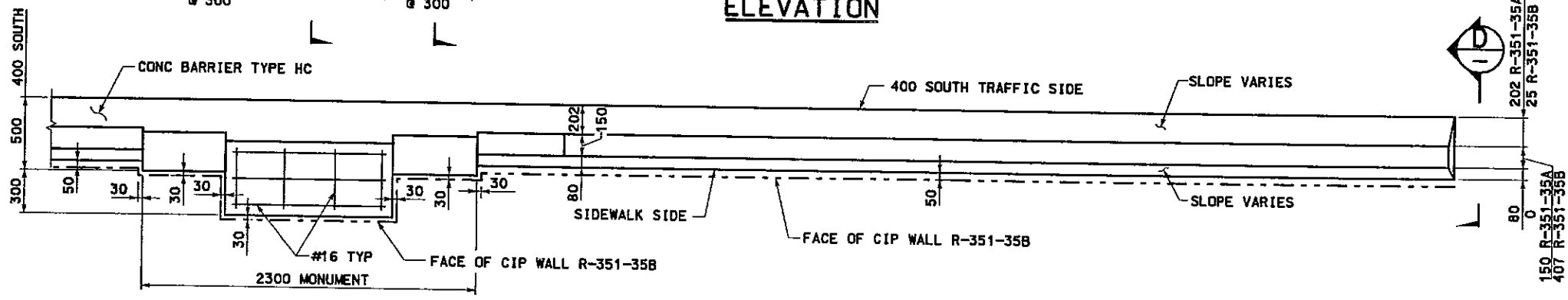


APPROVED FOR CONSTRUCTION		DESCRIPTION	
NO.	DATE	NO.	DATE
A	11/13/98	A	03/05/99
			08/13/99
RELEASE FOR CONSTRUCTION		REVISED CONCRETE BARRIER PER SLC COMMENT	
		FINAL SUBMITTAL COMMENTS	
SVERDRUP/DE LEUW		3212419	
DESIGN	CHECK	MC	MC
11/13/98	11/13/98	11/13/98	11/13/98
MARVIN COOK	RH	MJS	MJS
PROJECT DESIGN ENGINEER	DATE	DATE	DATE
11/13/98	11/13/98	11/13/98	11/13/98
APPROVED	DATE	SECTION MANAGER	QUANT.
11/13/98	11/13/98	KEITH SABOL	3212419
I-15 CORRIDOR RECONSTRUCTION		TYPICAL SECTION	
SECTION 3.2		PROJECT NUMBER	
		*SP-15-7(135)296	
SALT LAKE COUNTY		DWG. NO.	
		3.2-R351-35.7	
SHT. 7 OF 8			



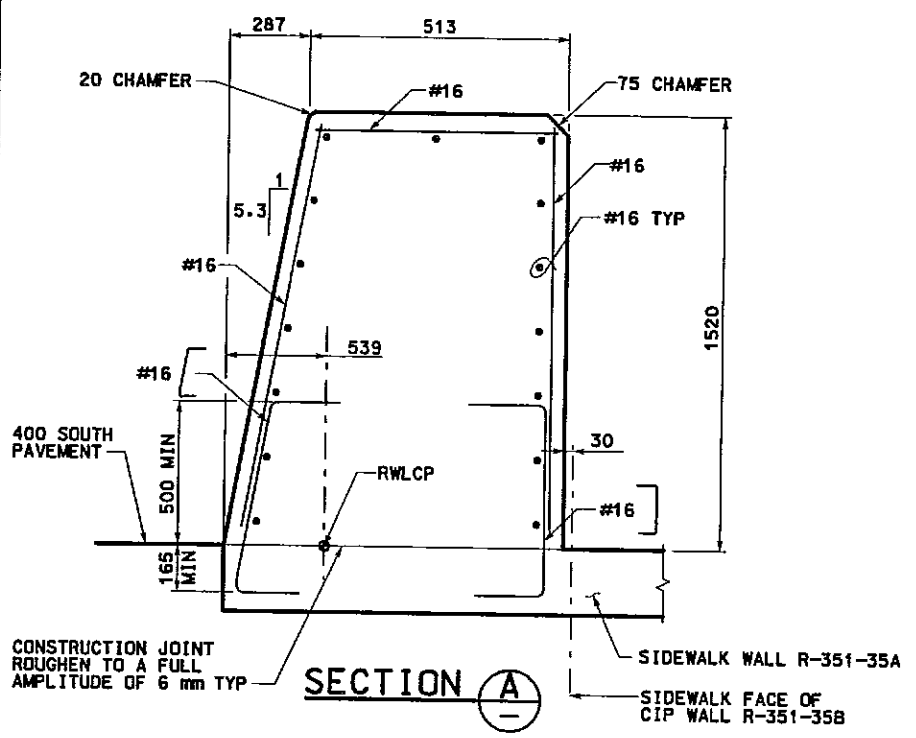
ELEVATION

- NOTES:**
- 1) CLASS AA (AE) $f'_c=27.5$ MPa CONCRETE PER CORRIDOR STANDARDS SPECIFICATIONS. ALL REINFORCING STEEL SHALL BE EPOXY-COATED OR GALVANIZED DEFORMED BILLET-STEEL CONFORMING TO THE CORRIDOR STANDARD SPECIFICATIONS. COVER TO REINFORCING STEEL SHALL BE 50 mm MIN EXCEPT WHERE OTHERWISE NOTED.
 - 2) PLACE CONSTRUCTION JOINT AT END OF DAY'S POUR AND WHEN WORK IS HALTED FOR 2 HOURS OR MORE. EXTEND LONGITUDINAL REINFORCEMENT TO MEET LAP SPLICE REQUIREMENTS PER CORRIDOR STANDARD SPECIFICATIONS.
 - 3) INSTALL ELECTRICAL/ATMS CONDUITS AND PULLBOXES AS REQUIRED. SEE ATMS DRAWINGS.
 - 4) ADDITIONAL #13 STIRRUPS TO SECURE LONGITUDINAL REINFORCEMENT ARE OPTIONAL OVER LENGTH OF CONCRETE BARRIER.
 - 5) CONCRETE BARRIER SHALL BE CONSTRUCTED BY THE SLIP FORM OR FORMED CAST-IN-PLACE METHODS.
 - 6) ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
 - 7) NO VERTICAL SCORING SHALL BE ALLOWED ON BARRIER FACE.
 - 8) BEND STIRRUPS OUT OF PLANE IF NECESSARY TO MEET MINIMUM CLEARANCE CRITERIA.

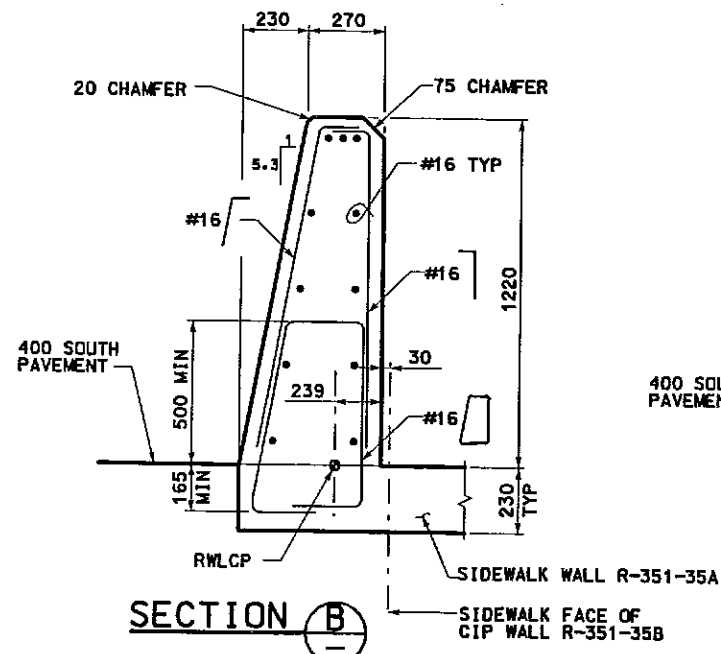


PLAN

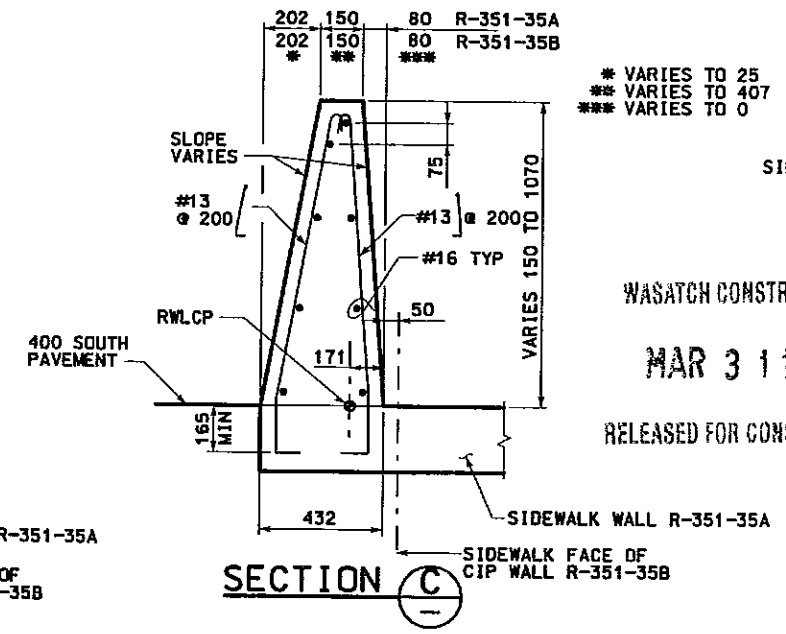
PLAN ORIENTATION TO TRAFFIC SHOWN FOR WALL R-351-35B OPPOSITE HAND FOR WALL R-351-35A



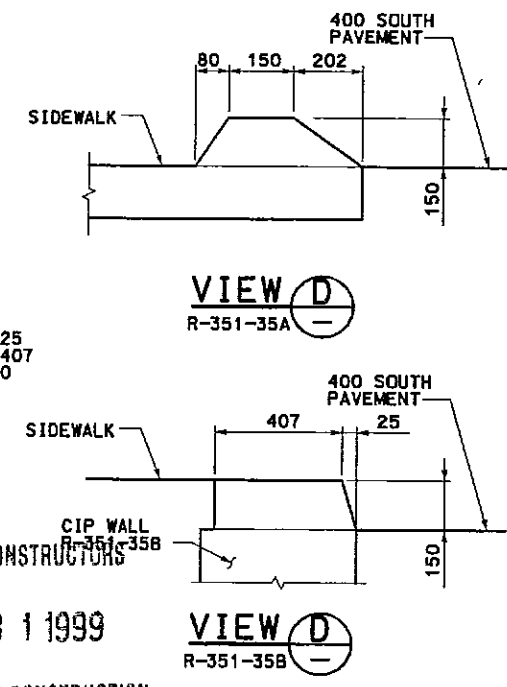
SECTION A



SECTION B

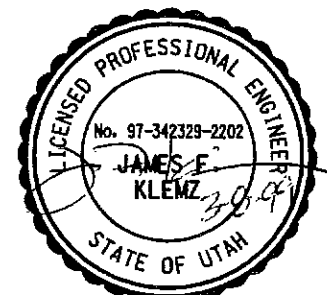


SECTION C



* VARIES TO 25
 ** VARIES TO 407
 *** VARIES TO 0

WASATCH CONSTRUCTORS
 MAR 31 1999
 RELEASED FOR CONSTRUCTION



APPROVED FOR CONSTRUCTION		DESCRIPTION	
NO.	DATE	NO.	DATE
1	11/13/98	1	11/13/98
2	03/05/99	2	03/05/99
UTAH DEPARTMENT OF TRANSPORTATION		SVERDRUP/DE LEUW	
DESIGN	CHK	DATE	CHK
SZ	11/13/98	BK	11/13/98
DRAWN	MJS	11/13/98	CHK
QUANT.	KEITH SABOL	11/13/98	CHK
	SECTION MANAGER		
I-15 CORRIDOR RECONSTRUCTION		SECTION 3.2	
SPECIAL DETAILS		PROJECT NUMBER #SP-15-7(135)296	
SALT LAKE COUNTY		DWG. NO. 3.2-R-351-35.8	
SHT. 8 OF 8			