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33	ELSP1	ELJ SITE PLAN
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MOVE WP1 TO EC4

NOTE: * SHEETS WILL BE PROVIDED IN 60 PERCENT PLAN SET

INDEX (CONTINUED)

SHEET NO.	PLAN REFERENCE NO.	TITLE

PLAN REFERENCE NO.

SHEET OF SHEETS

NOTE: ALL SHEET REFERENCES, FIRST NOS. OF STRUCTURE CODE DESIGNATIONS AND MATCH LINE SHEET REFERENCES, ETC., THROUGHOUT THE PLANS, REFER TO THE ENTRY IN THE PLAN REFERENCE NUMBER BOX.

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PROJ. ENGR.	D. EDWARDS
REGIONAL ADM.	X. XXXXXXXX

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 141060G

CONTRACT NO. Y-9292 | LOCATION NO.

MICHAEL M. SPILLANE, STATE OF WASHINGTON, 30780, REGISTERED PROFESSIONAL ENGINEER

EXPIRES: 4/6/2009 DATE

30% SUBMITTAL

P.E. STAMP BOX DATE

Washington State Department of Transportation

HERRERA ENVIRONMENTAL CONSULTANTS

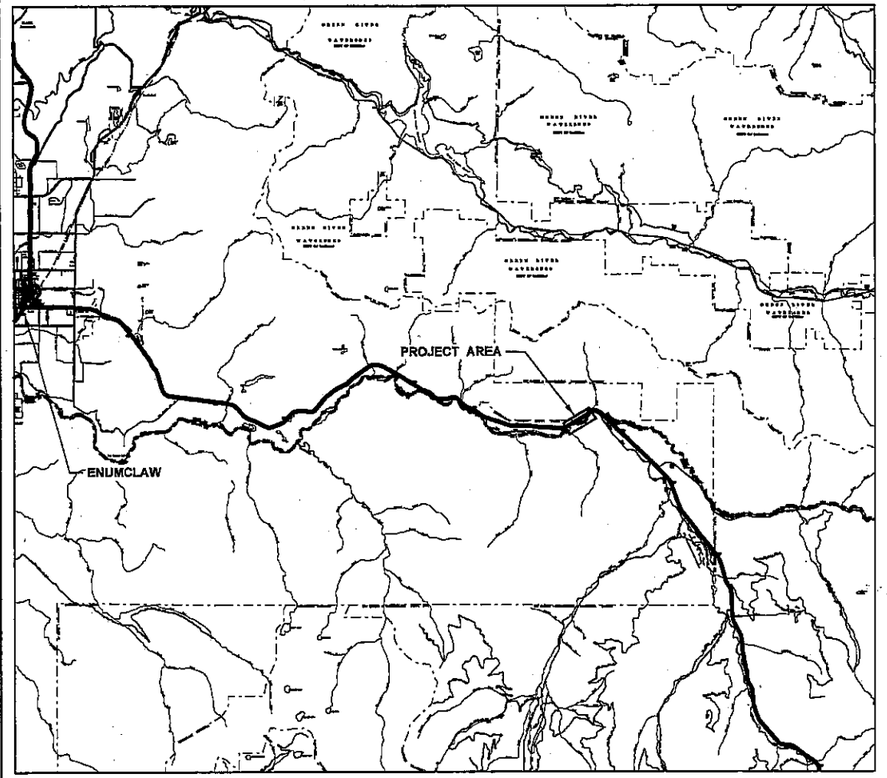
SR 410
WHITE RIVER - STABILIZE SLOPES
PROBLEM SITE 9

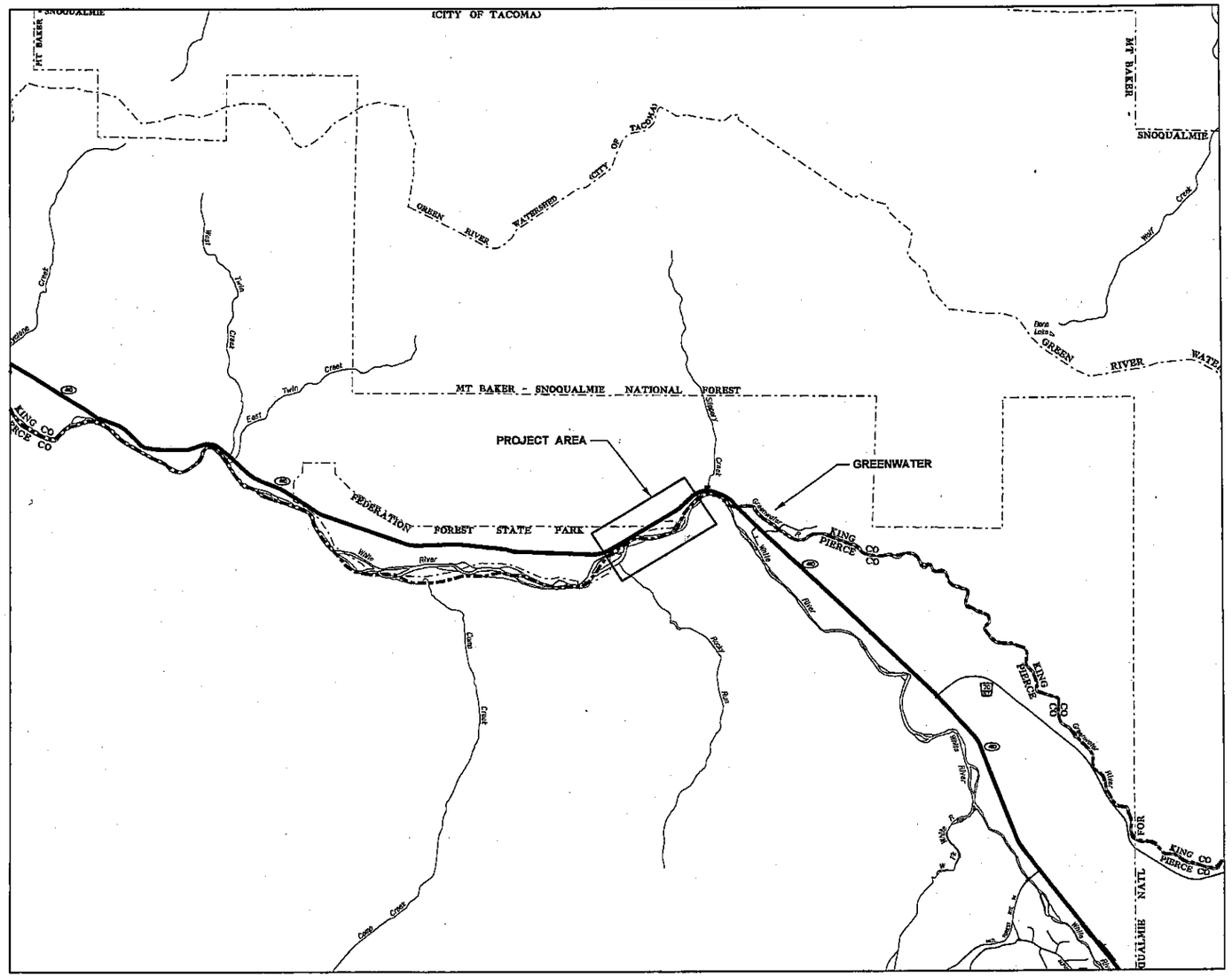
INDEX

Plot 1

I1

SHEET 1 OF 82 SHEETS





SR 410

CED BANK STABILIZATION PROJECT
PROBLEM SITE 9

PIERCE / KING COUNTY

RIGHT OF WAY PLAN
VICINITY MAP AND TOTAL PARCEL DETAILS
MP 41.4 TO MP 42.0

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
OLYMPIA, WASHINGTON

APPROVED
AND ADOPTED _____

PROJECT ENGINEER _____ RIGHT OF WAY PLANS ENGINEER

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CHECKED BY	M. SPILLANE						
PROJ. ENGR.	D. EDWARDS						
REGIONAL ADM.	X. XXXXXXXX	REVISION	DATE	BY			

MICHAEL M. SPILLANE
STATE OF WASHINGTON
30780
REGISTERED PROFESSIONAL ENGINEER
EXPIRES: 4/5/2009
DATE

30% SUBMITTAL
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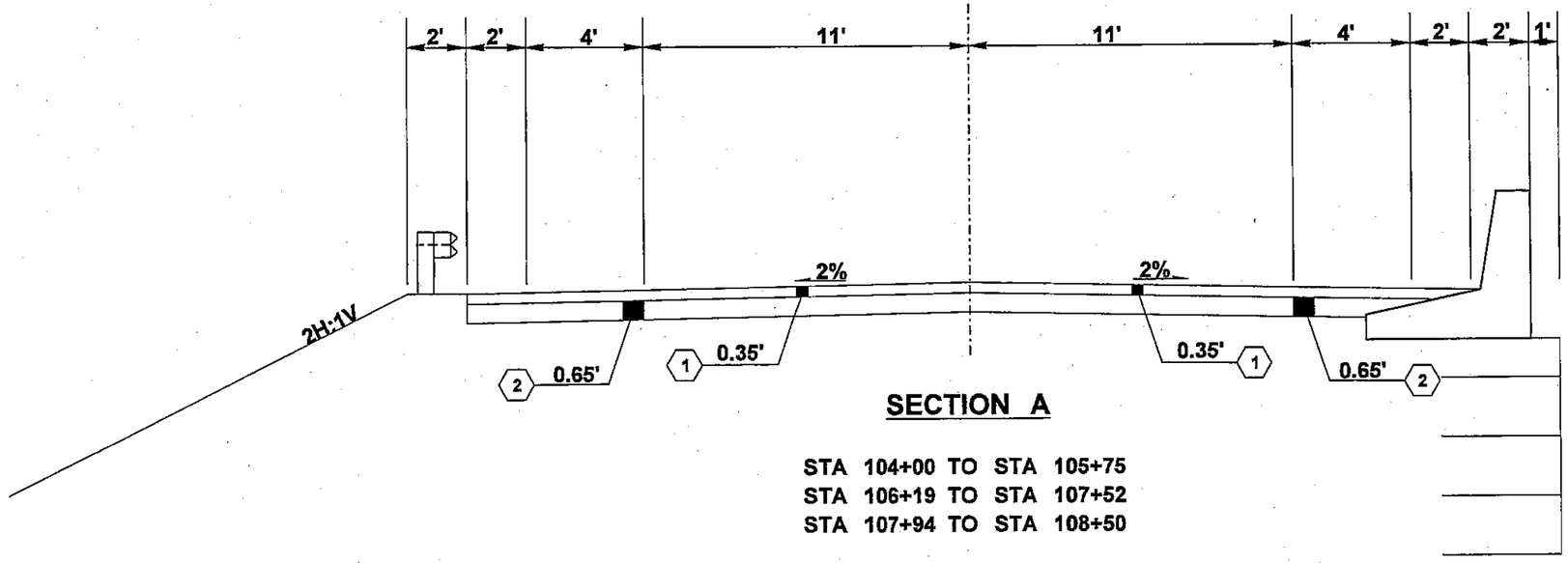
HERRERA ENVIRONMENTAL CONSULTANTS

SR 410
WHITE RIVER - STABILIZE SLOPES
PROBLEM SITE 9

VICINITY MAP

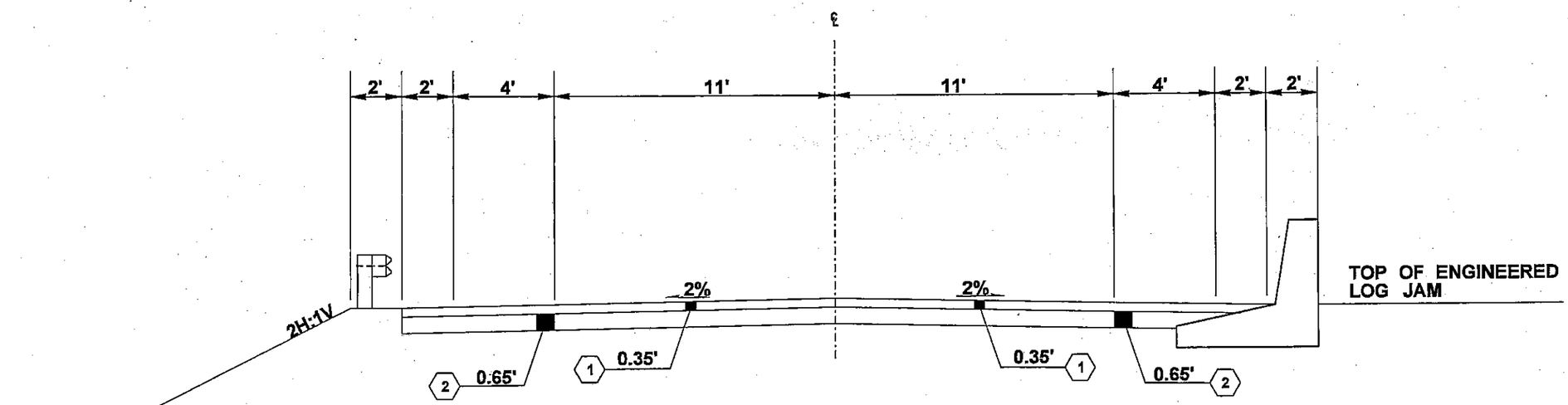
Plot 1
VM1
SHEET 2 OF 82 SHEETS

SEC. 9, T. 19 N., R. 9 E., W.M.



SECTION A

STA 104+00 TO STA 105+75
STA 106+19 TO STA 107+52
STA 107+94 TO STA 108+50



SECTION B

STA 105+75 TO STA 106+19
STA 107+52 TO STA 108+05

LEGEND

- GUARDRAIL
- RETAINING WALL
- MOMENT SLAB
- (1) HMA CL. 1/2 IN. PG
- (2) CRUSHED SURFACING BASE COURSE

NOT TO SCALE

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ENTERED BY	IAN SEQUEIRA				Y-4292		
CHECKED BY	JULEE DRINKWATER						
PROJ. ENGR.	X. XXXXXXX						
REGIONAL ADM.	X. XXXXXXX	REVISION	DATE	BY			

DATE

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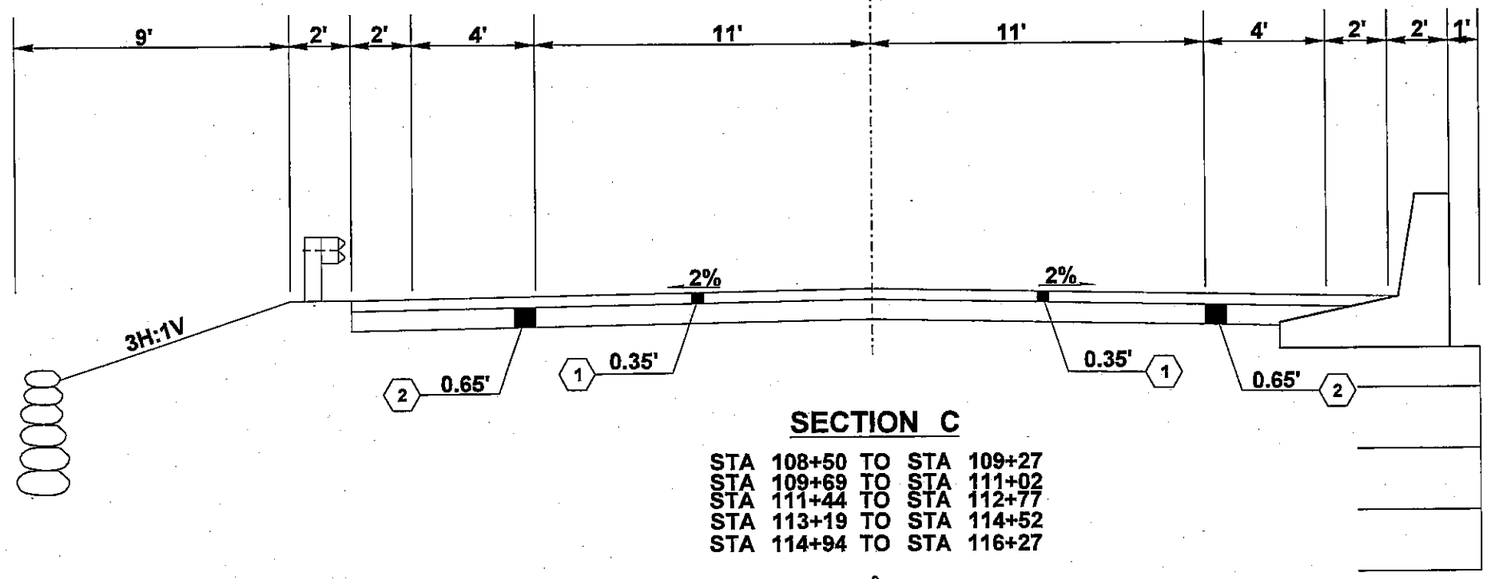
SR 410
WHITE RIVER - STABILIZE SLOPES

ROADWAY SECTIONS AND DETAILS

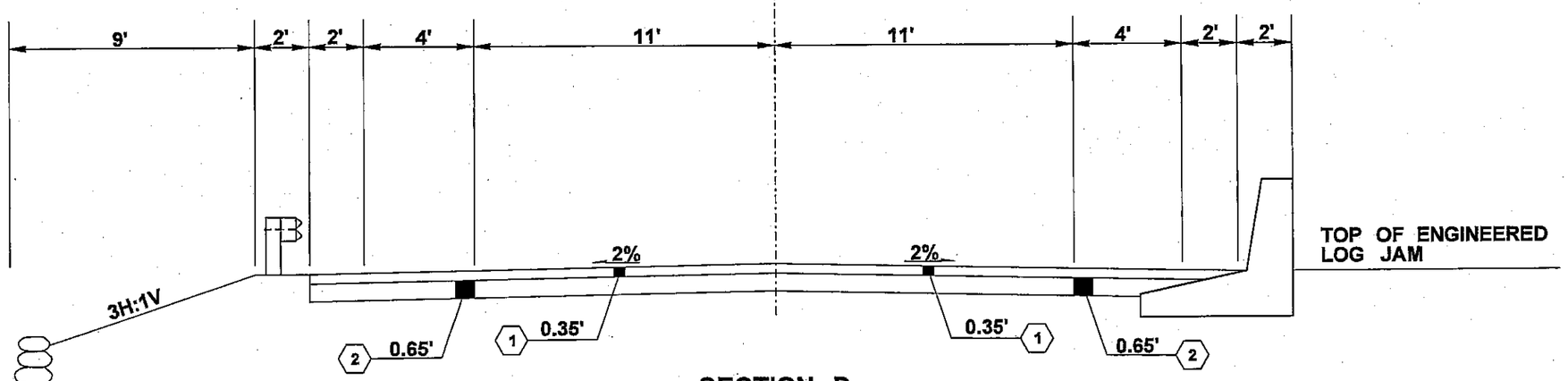
Plot 1
RS1
SHEET 6 OF 82 SHEETS

SEC. 9, T. 19 N., R. 9 E., W.M.



SECTION C

STA 108+50 TO STA 109+27
STA 109+69 TO STA 111+02
STA 111+44 TO STA 112+77
STA 113+19 TO STA 114+52
STA 114+94 TO STA 116+27



SECTION D

STA 109+27 TO STA 109+69
STA 111+02 TO STA 111+44
STA 112+77 TO STA 113+19
STA 114+52 TO STA 114+94
STA 116+27 TO STA 116+81

LEGEND

- GUARDRAIL
- RETAINING WALL
- MOMENT SLAB
- ROCK WALL
- (1) HMA CL. 1/2 IN. PG
- (2) CRUSHED SURFACING BASE COURSE

NOT TO SCALE

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ENTERED BY	IAN SEQUEIRA					
CHECKED BY	JULEE DRINKWATER					
PROJ. ENGR.	X. XXXXXXXX					
REGIONAL ADM.	X. XXXXXXXX	REVISION	DATE	BY		

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.
JOB NUMBER 33760467
CONTRACT NO. Y-9292
LOCATION NO.

DATE

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SR 410
WHITE RIVER - STABILIZE SLOPES

ROADWAY SECTIONS AND DETAILS

Plot 2
RS2
SHEET 6 OF 82 SHEETS

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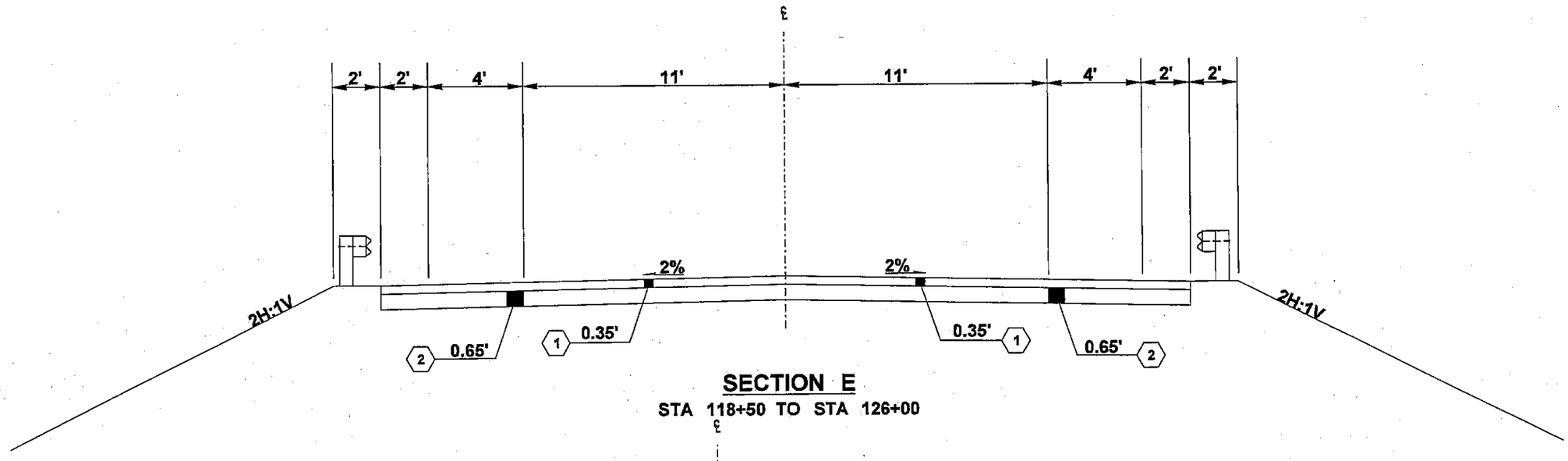
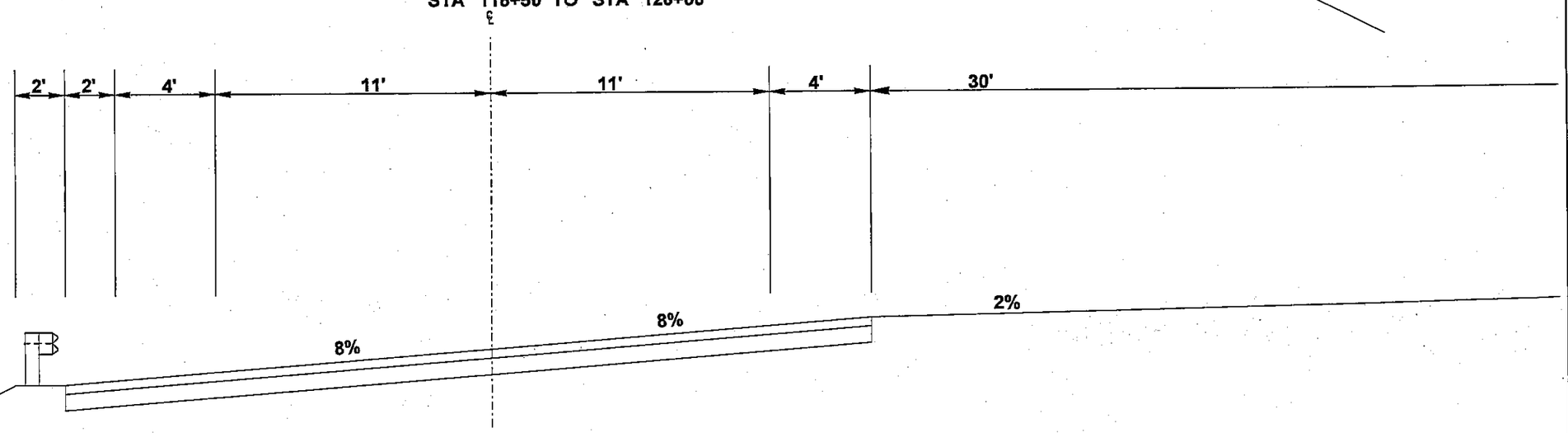


SECTION E

STA 118+50 TO STA 126+00



SECTION F

STA 101+50

LEGEND

GUARDRAIL

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CRUSHED SURFACING
(2) BASE COURSE

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ENTERED BY	IAN SEQUEIRA				Y-8292		
CHECKED BY	JULEE DRINKWATER						
PROJ. ENGR.	X. XXXXXXXX						
REGIONAL ADM.	X. XXXXXXXX	REVISION	DATE	BY			

DATE

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EXPIRES 04/08/ DATE

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SR 410
WHITE RIVER - STABILIZE SLOPES

ROADWAY SECTIONS AND DETAILS

Plot 3

RS3

SHEET 7 OF 82 SHEETS

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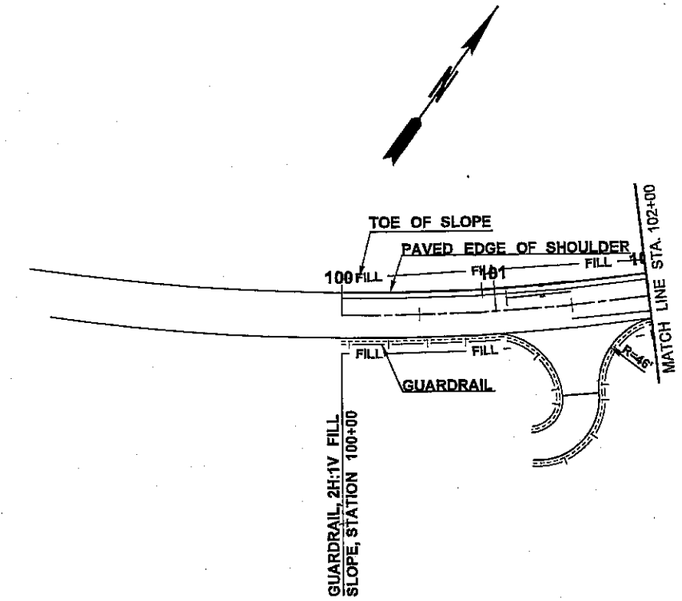

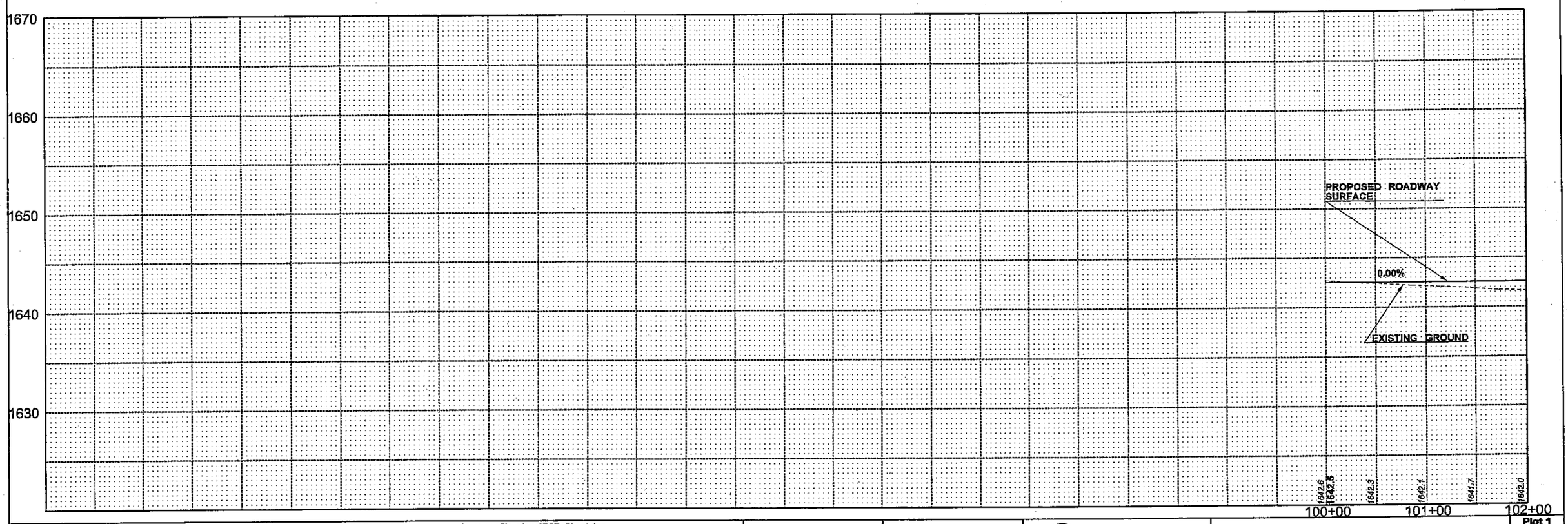

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REGIONAL ADM.	X. XXXXXXXX	REVISION	DATE	BY		

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 33760467		
CONTRACT NO. Y-8292		LOCATION NO.

DATE

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DATE

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CENTURY SQUARE
1601 4TH AVENUE, SUITE 1400
SEATTLE, WA 98101
PHONE: (206) 438-2700
FAX: (206) 438-2699

SR 410
WHITE RIVER - STABILIZE SLOPES

ROADWAY PLAN AND PROFILES

Plot 1

PR1

SHEET 11 OF 82 SHEETS

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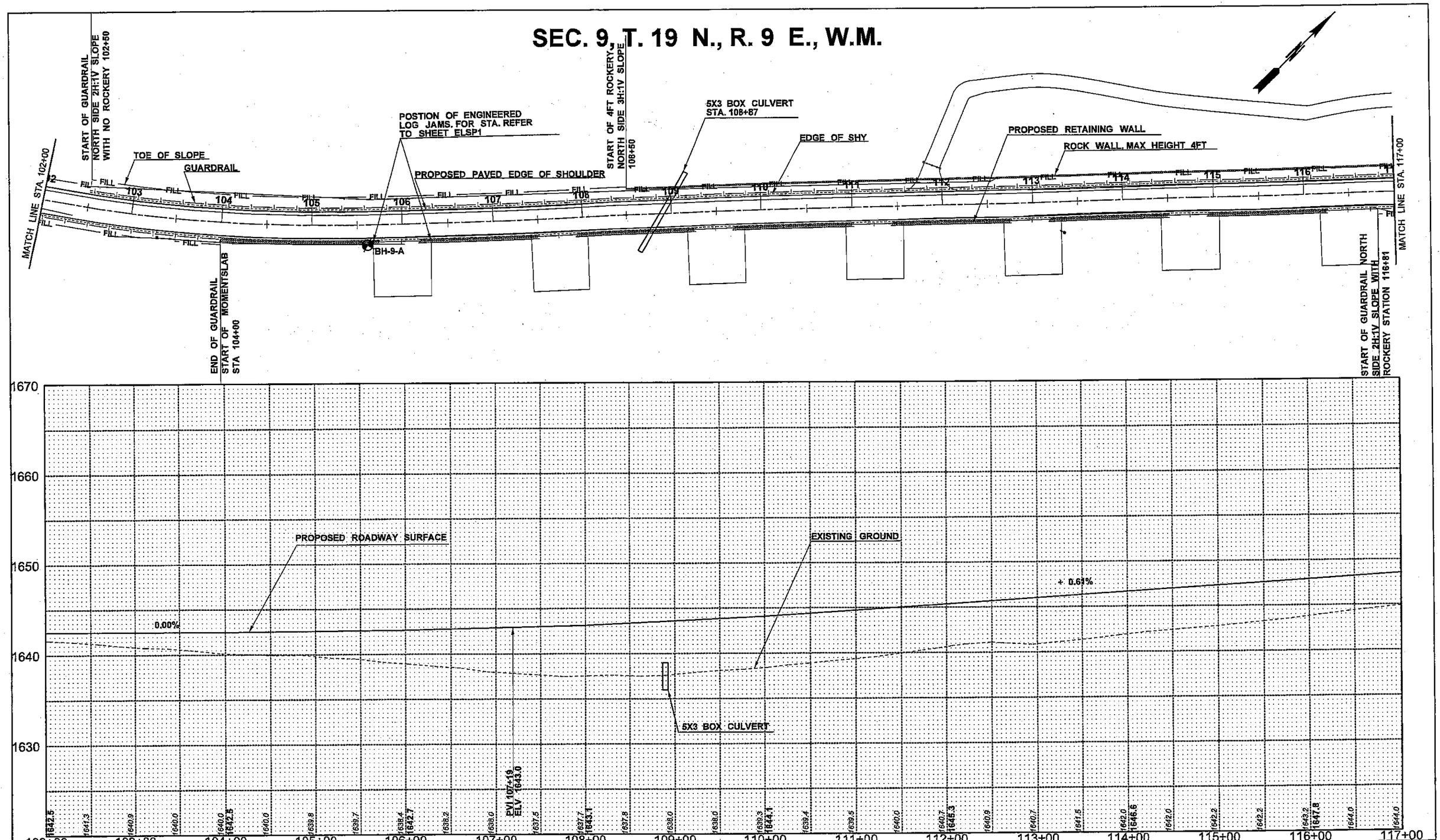

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DESIGNED BY	PHIL NEWTON
ENTERED BY	IAN SEQUEIRA
CHECKED BY	JULEE DRINKWATER
PROJ. ENGR.	X. XXXXXXXX
REGIONAL ADM.	X. XXXXXXXX

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 33760467		
CONTRACT NO. Y-8292		LOCATION NO.

DATE

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SR 410
WHITE RIVER - STABILIZE SLOPES

ROADWAY PLAN AND PROFILES

Plot 2
PR2
SHEET 12 OF 82 SHEETS

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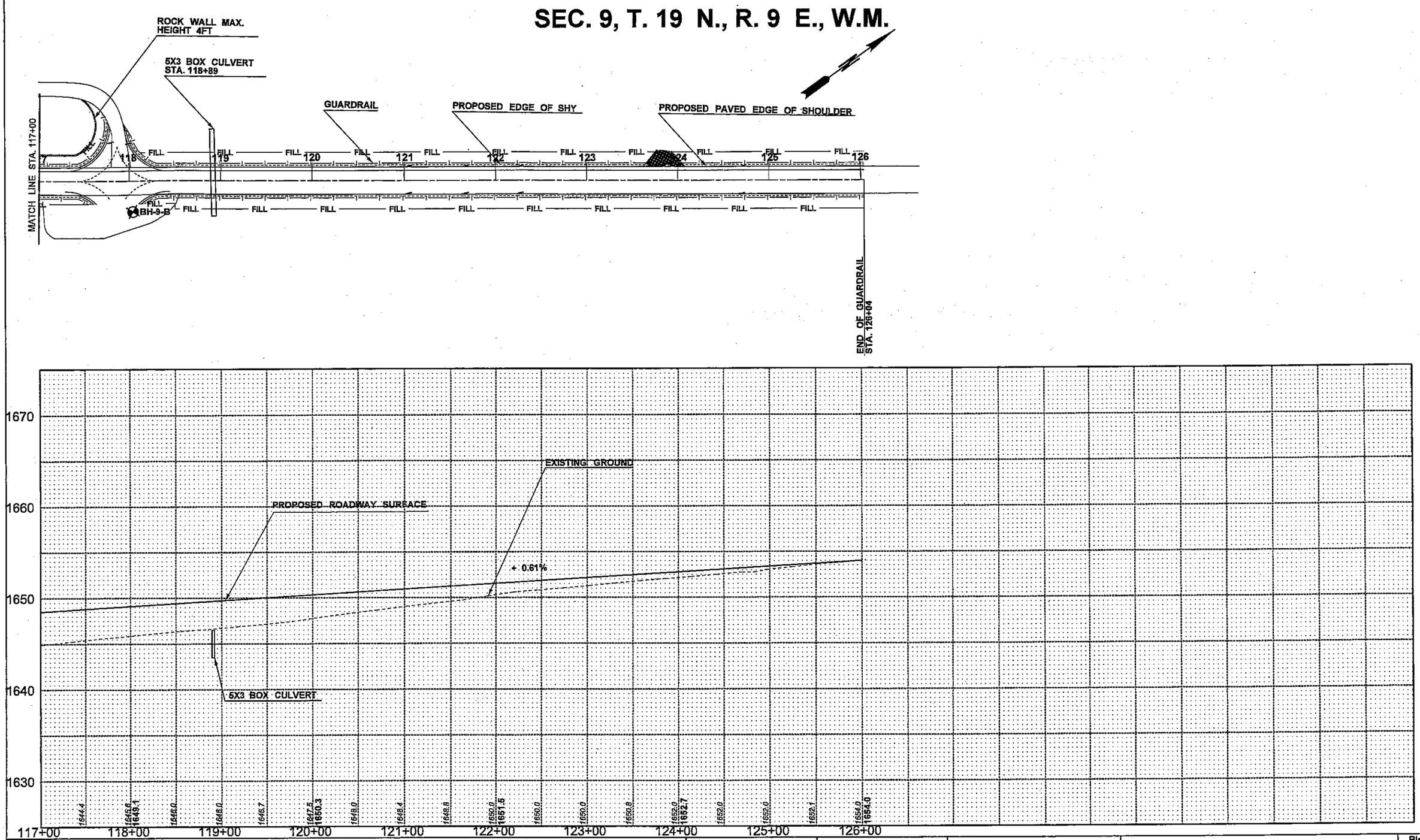

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PROJ. ENGR.	X. XXXXXXXX						
REGIONAL ADM.	X. XXXXXXXX	REVISION	DATE	BY			

DATE

EXPIRES: 04/08/ DATE

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SEATTLE, WA 98101
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FAX: (206) 436-2699

SR 410
WHITE RIVER - STABILIZE SLOPES

ROADWAY PLAN AND PROFILES

Plot 3

PR3

SHEET 13 OF 82 SHEETS

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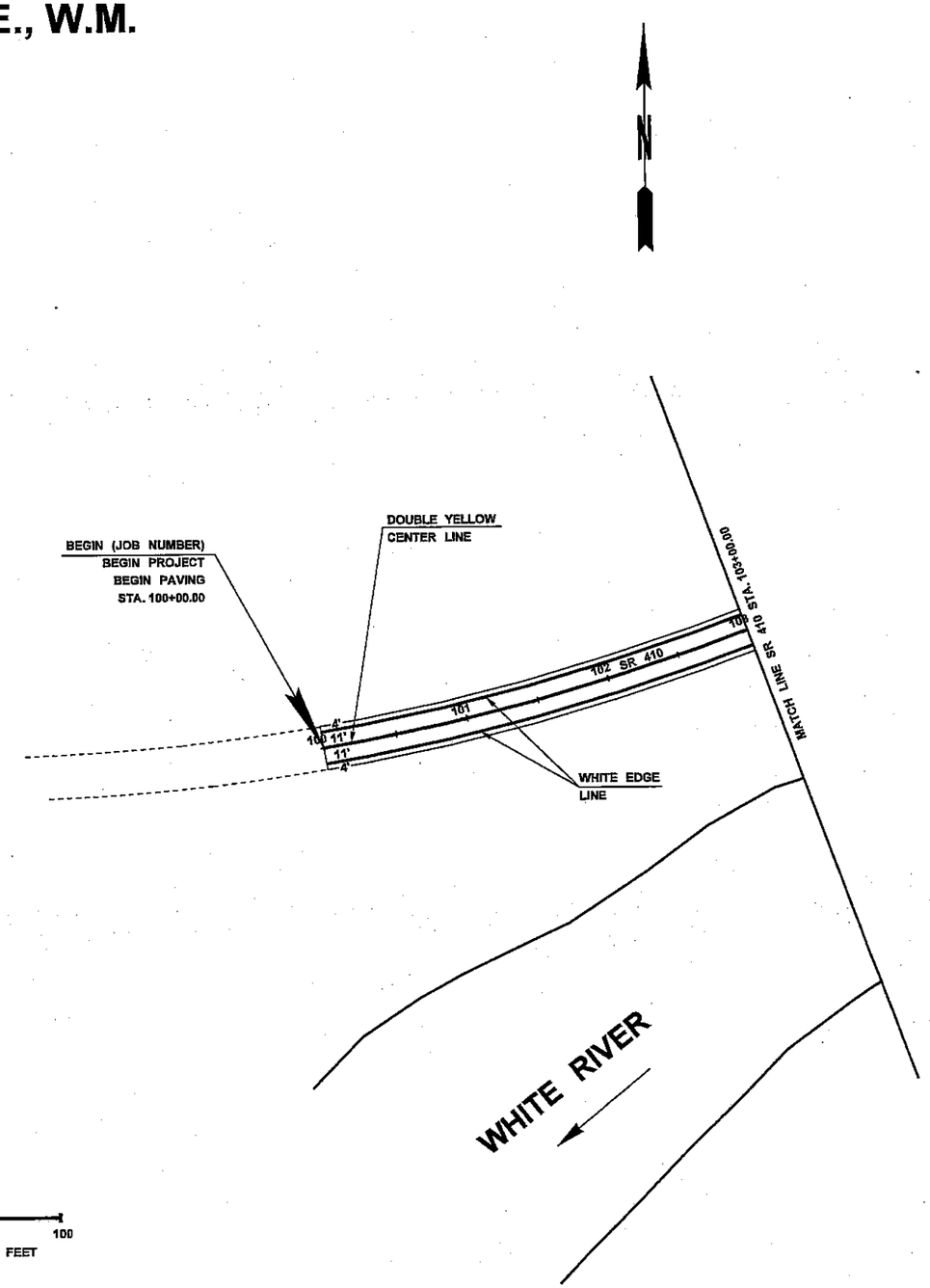

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REGIONAL ADM.	X. XXXXXXXX	REVISION	DATE	BY			

DATE

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SEATTLE, WA 98101
PHONE: (206) 438-2700
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SR 410
WHITE RIVER - STABILIZE SLOPES

PAVEMENT AND MARKING

Plot 1

PM1

SHEET 20 OF 82 SHEETS

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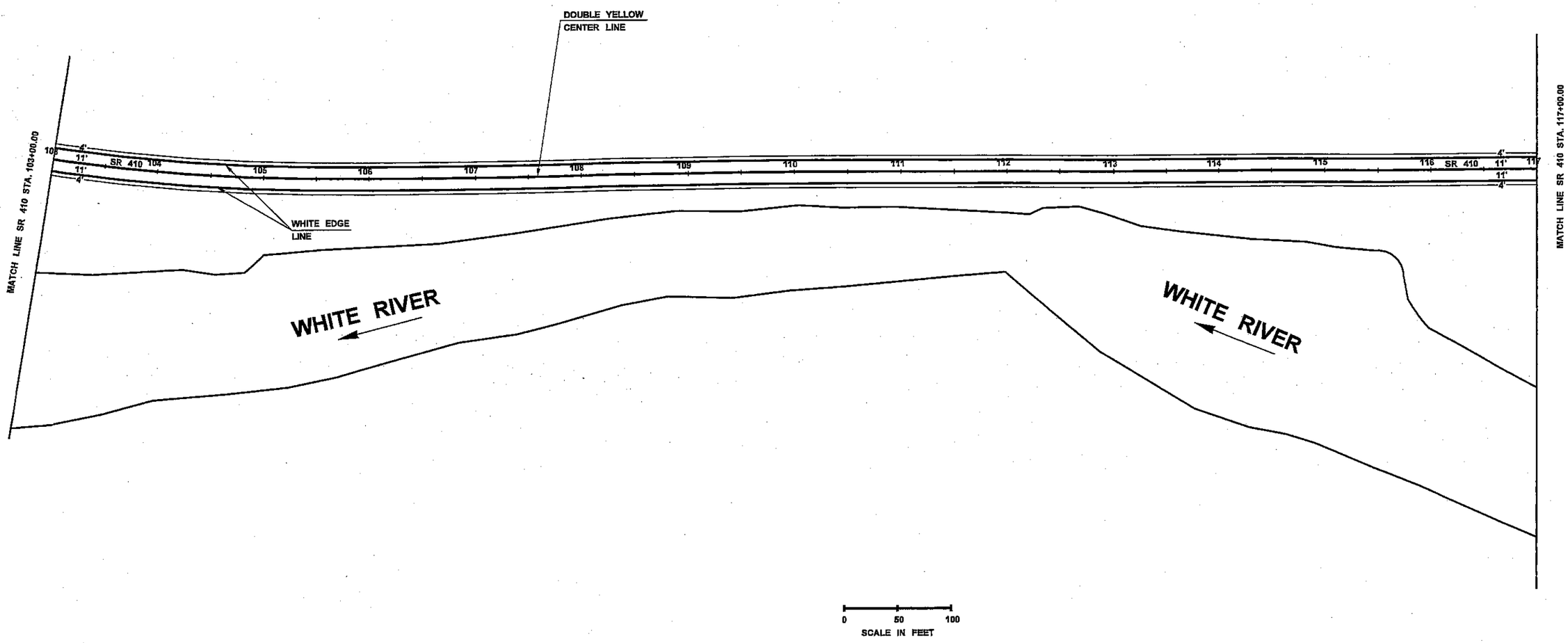

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REGIONAL ADM.	X. XXXXXXXX	REVISION	DATE	BY			

DATE

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EXPIRES: 04/08/

DATE

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SEATTLE, WA 98101
PHONE: (206) 438-2700
FAX: (206) 438-2699

SR 410
WHITE RIVER - STABILIZE SLOPES

PAVEMENT AND MARKING

Plot 1

PM2

SHEET 21 OF 82 SHEETS

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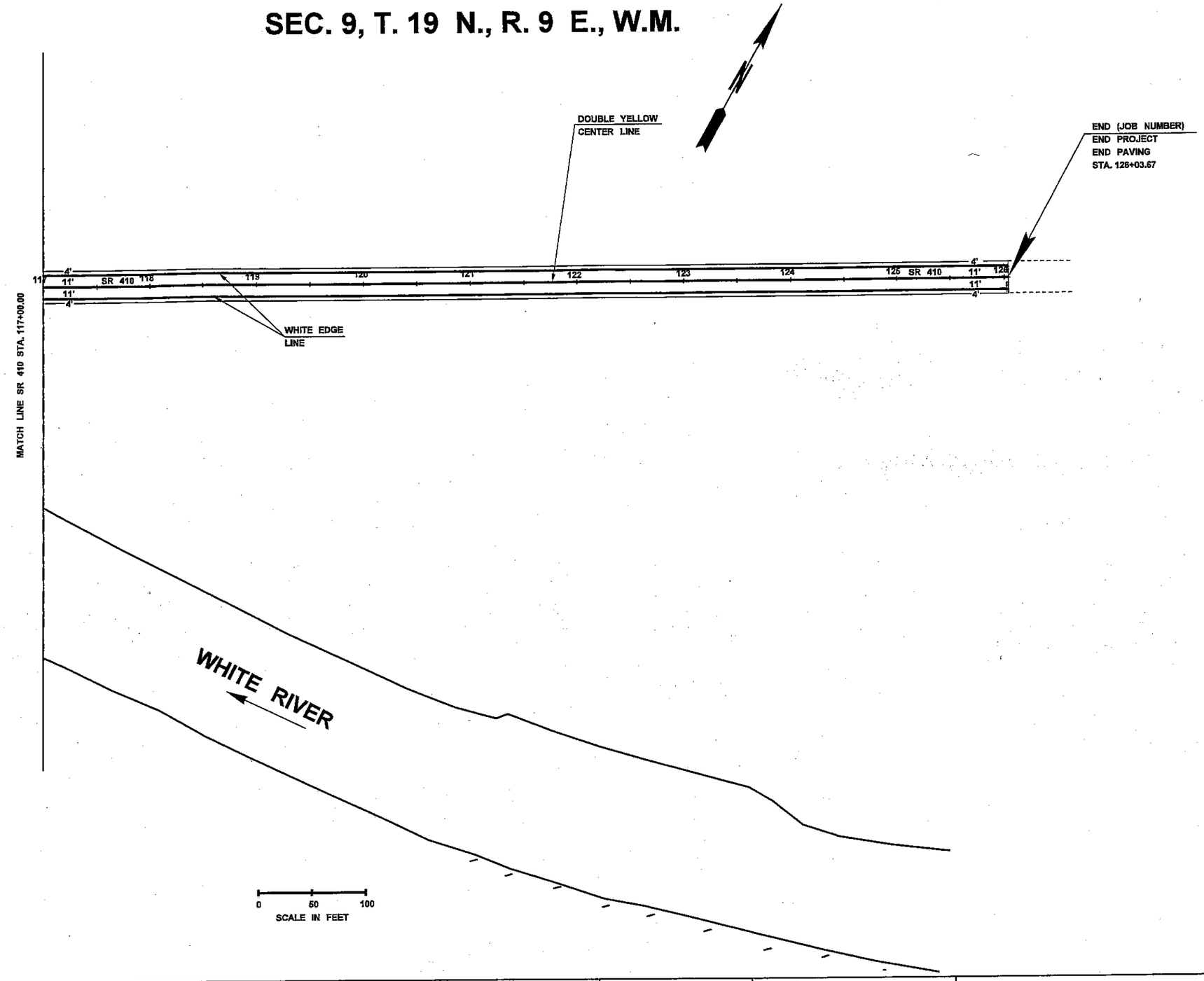

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CHECKED BY	JULEE DRINKWATER			
PROJ. ENGR.	X. XXXXXXXX			
REGIONAL ADM.	X. XXXXXXXX	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 33760467		
CONTRACT NO. Y-8292		LOCATION NO.

DATE

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1501 4TH AVENUE, SUITE 1400
SEATTLE, WA 98101
PHONE: (206) 438-2700
FAX: (206) 438-2699

SR 410
WHITE RIVER - STABILIZE SLOPES

PAVEMENT AND MARKING

Plot 3

PM3

SHEET 22 OF 82 SHEETS

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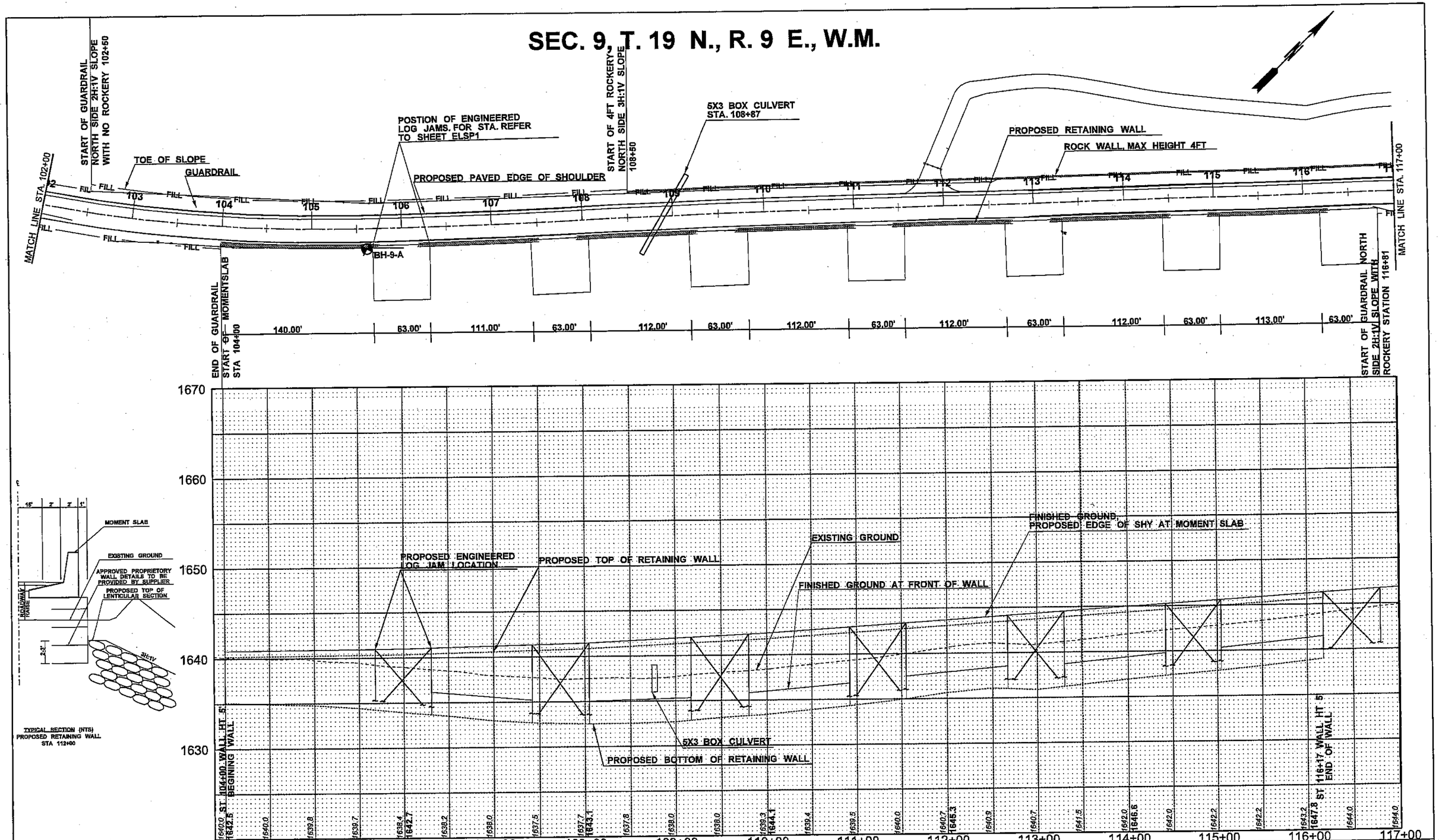

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DESIGNED BY	ERICH LENZ
ENTERED BY	IAN SEQUEIRA
CHECKED BY	McCabe
PROJ. ENGR.	X. XXXXXXXX
REGIONAL ADM.	X. XXXXXXXX

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 33760467		
CONTRACT NO. Y-8292		LOCATION NO.

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SR 410
WHITE RIVER - STABILIZE SLOPES

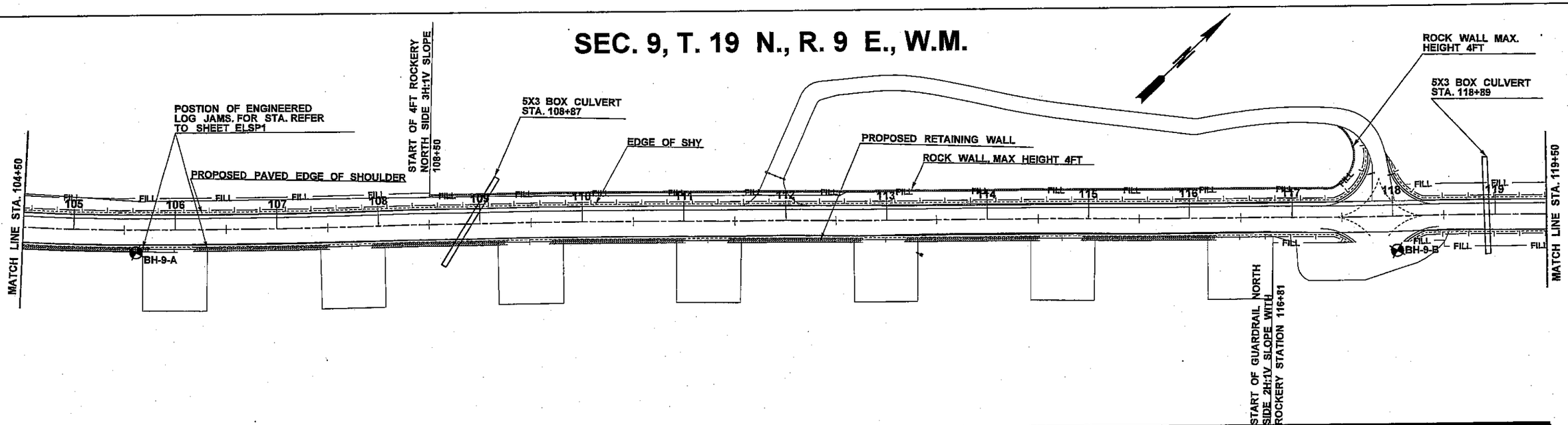
RETAINING WALL PLAN PROFILE DETAIL

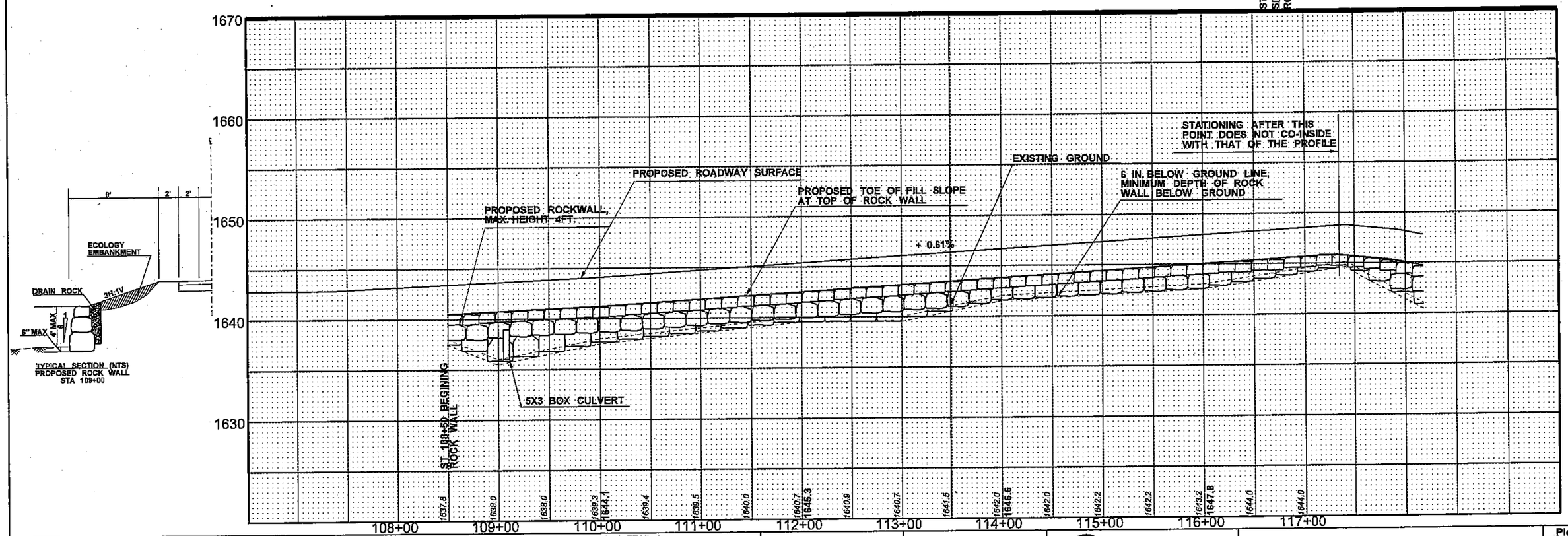
Plot 1

W1

SHEET 30 OF 82 SHEETS

SEC. 9, T. 19 N., R. 9 E., W.M.





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DATE	12/4/2007
PLOTTED BY	Ian_sequeira
DESIGNED BY	ERICH LENZ
ENTERED BY	IAN SEQUEIRA
CHECKED BY	MCCABE
PROJ. ENGR.	X. XXXXXXXX
REGIONAL ADM.	X. XXXXXXXX

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 33760467

CONTRACT NO. Y-8292

LOCATION NO.

DATE

MARTIN MCCABE, STATE OF WASHINGTON, REGISTERED PROFESSIONAL ENGINEER

EXPIRES: 2/28/

DATE

P.E. STAMP BOX

Washington State Department of Transportation

URS

CENTURY SQUARE
1501 4TH AVENUE, SUITE 1400
SEATTLE, WA 98101
PHONE: (206) 438-2700
FAX: (206) 438-2699

SR 410
WHITE RIVER - STABILIZE SLOPES

ROCK WALL PLAN PROFILE AND DETAIL

Plot 1

WP1

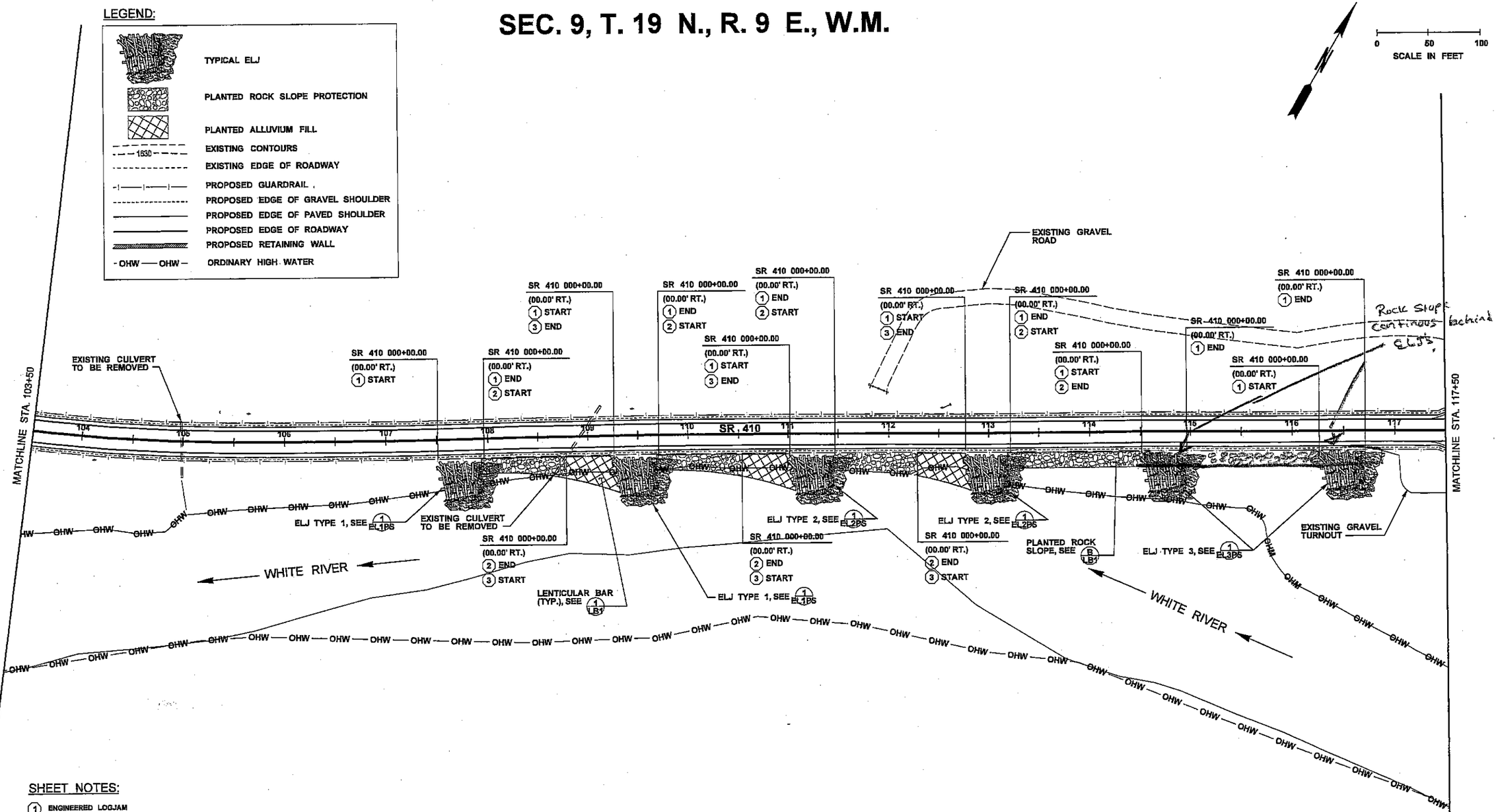
SHEET 31 OF 82 SHEETS

GENERAL NOTES:

1. GEOTECHNICAL INFORMATION IS CURRENTLY BEING COLLECTED. AS A RESULT THREE ELJ DESIGNS HAVE BEEN PREPARED
   - ELJ TYPE 1 DESIGN WILL BE CONSTRUCTED WHEN DEPTH TO BEDROCK IS LESS THAN ~~20~~ 15 FEET AND BELOW THE EXISTING CHANNEL BOTTOM.
   - ELJ TYPE 2 DESIGN WILL BE CONSTRUCTED WHEN DEPTH TO BEDROCK IS BETWEEN ~~20~~ 15 FEET TO 30 FEET BELOW THE EXISTING CHANNEL BOTTOM.
   - ELJ TYPE 3 DESIGN WILL BE CONSTRUCTED WHEN DEPTH TO BEDROCK IS GREATER THAN 30 FEET BELOW EXISTING CHANNEL BOTTOM. ELJ TYPE 3 STRUCTURES WILL BE CONSTRUCTED WITH A PERMANENT SHEET PILE SCOUR PROTECTION WALL DRIVEN BELOW EXISTING RIVER CHANNEL BOTTOM.

   COPY THIS TO "ELJ TYPE 2 NOTE"
2. SHALLOW BEDROCK MAYBE ENCOUNTERED AT ELJ TYPE 1 AND 2 LOCATIONS. CONTRACTOR'S SHORING AND WORK AREA ISOLATION FOR WATER MANAGEMENT SHALL BE CONSISTENT FOR LOCATIONS WHERE SHALLOW BEDROCK IS ENCOUNTERED.
3. MATERIAL STAGING AREAS TO BE LOCATED OFF-SITE.
4. ALL EQUIPMENT SHALL USE ONLY BIODEGRADABLE HYDRAULIC FLUIDS.
5. CONTRACTOR SHALL LIMIT MACHINERY MOVEMENT TO CONSTRUCTION AREAS DEFINED ON SITE PLAN OR IDENTIFIED AS ACCEPTABLE BY ON-SITE ENGINEER.
6. CLEARING LIMITS SHALL NOT BE EXPANDED UNLESS APPROVED BY PROJECT ENGINEER.
7. CONTRACTOR SHALL REMOVE ALL TEMPORARY SHORING AND DEWATERING EQUIPMENT UPON COMPLETION OF WORK.
8. SEE SPECIFICATIONS FOR LOG TYPE (SPECIES), DIAMETER AND LENGTH.
9. WOOD LAYER PLACEMENT IN EACH LOGJAM LAYER SHALL BE INSPECTED BY ON-SITE ENGINEER PRIOR TO BACKFILLING.
10. CONTRACTOR SHALL PROVIDE 24 HOURS ADVANCE NOTICE TO THE ENGINEER PRIOR TO ANY REQUIRED INSPECTION.
11. APPROVED CONSTRUCTION SEQUENCE PLAN SHALL NOT BE ALTERED UNLESS APPROVED BY ENGINEER.
12. FIELD VERIFY WITH ENGINEER ALL ENGINEERED LOGJAM LOCATIONS, LENGTHS, WIDTHS, AND ELEVATIONS PRIOR TO EXCAVATION, ASSEMBLY, AND INSTALLATION OF EACH STRUCTURE.
13. IF AT ANY TIME, AS A RESULT OF PROJECT ACTIVITIES, FISH ARE OBSERVED IN DISTRESS, A FISH KILL OCCURS, OR WATER QUALITY PROBLEMS DEVELOP (INCLUDING EQUIPMENT LEAKS OR SPILLS), OPERATIONS SHALL CEASE AND THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY. WASHINGTON DEPARTMENT OF FISH AND WILDLIFE AND WASHINGTON DEPARTMENT OF ECOLOGY SHALL BE CONTACTED IMMEDIATELY BY THE ENGINEER OR BY HIS/HER DESIGNEE. WORK SHALL NOT RESUME UNTIL FURTHER APPROVAL BY OWNERS REPRESENTATIVE.
14. ALTERATION OR DISTURBANCE OF THE BANK AND BANK VEGETATION SHALL BE MINIMIZED TO THAT NECESSARY TO CONSTRUCT THE PROJECT. CONTRACTOR SHALL KEEP DISTURBED AREAS WITHIN LIMITS SHOWN ON PLANS. EXCAVATION PLAN AND LOCATION OF TEMPORARY SOIL, LOG AND ROCK STOCKPILE SHALL BE APPROVED BY ENGINEER BEFORE CONSTRUCTION BEGINS.
15. IF HIGH FLOW CONDITIONS THAT MAY CAUSE SILTATION OR EROSION ARE ENCOUNTERED DURING ELJ CONSTRUCTION, WORK SHALL STOP UNTIL THE FLOW SUBSIDES.
16. CONTRACTOR SHALL SALVAGE ALL TREES WITH DIAMETER BREAST HEIGHT (DBH) GREATER THAN TEN INCHES FOR USE IN ELJ STRUCTURES.
17. DECKED LOGS SHALL BE ACCESSIBLE FOR INSPECTION.
18. LOG TYPE IDENTIFICATION SHALL BE PAINTED ON ALL LOGS IN A PLACE VISIBLE FOR INSPECTION PRIOR TO PLACEMENT WITH LEAD-FREE, BLAZE-ORANGE SURVEY MARKING PAINT.
19. LOGS PLACED IN ELJ STRUCTURE SHALL BE PLACED AS CLOSE TO PILES AS POSSIBLE UNLESS OTHERWISE NOTED IN PLANS OR DIRECTED BY ENGINEER.

SEC. 9, T. 19 N., R. 9 E., W.M.



SHEET NOTES:

1. ENGINEERED LOGJAM
2. PLANTED ROCK SLOPE PROTECTION
3. PLANTED ALLUVIUM FILL

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DATE	12/28/2007
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DESIGNED BY	G. KAYS
ENTERED BY	T. PRESCOTT
CHECKED BY	M. SPILLANE
PROJ. ENGR.	D. EDWARDS
REGIONAL ADM.	X. XXXXXXXX

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 141060G		
CONTRACT NO. Y-9292		LOCATION NO.

MICHAEL M. SPILLANE, STATE OF WASHINGTON, 30780, REGISTERED PROFESSIONAL ENGINEER
EXPIRES: 4/6/2009 DATE

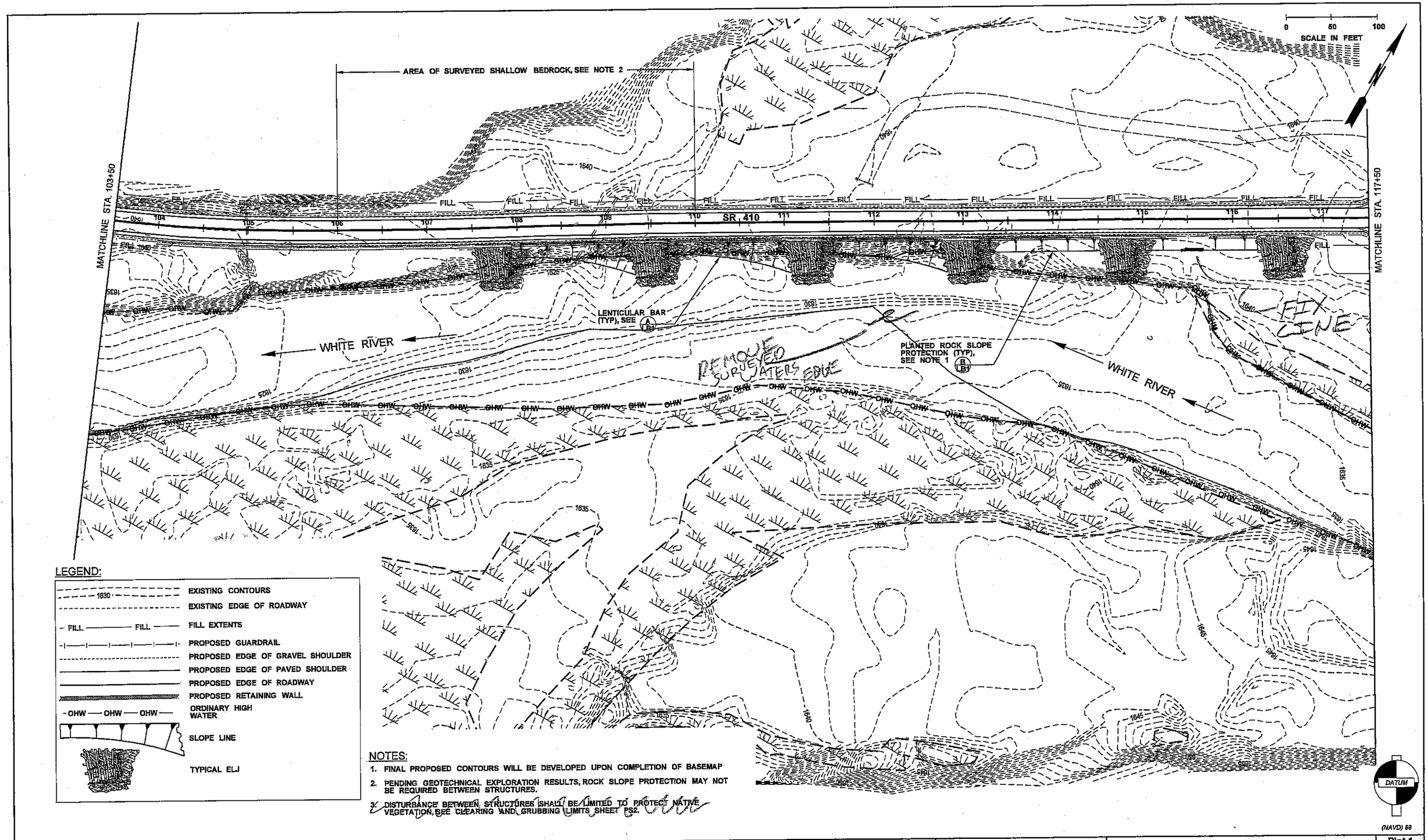
30% SUBMITTAL
P.E. STAMP BOX DATE

Washington State Department of Transportation
HERRERA ENVIRONMENTAL CONSULTANTS

SR 410
WHITE RIVER - STABILIZE SLOPES
PROBLEM SITE 9

ELJ SITE PLAN

Plot 1
ELSP1
SHEET 33 OF 82 SHEETS



NOTES:

1. FINAL PROPOSED CONTOURS WILL BE DEVELOPED UPON COMPLETION OF BASEMAP
2. PENDING GEOTECHNICAL EXPLORATION RESULTS, ROCK SLOPE PROTECTION MAY NOT BE REQUIRED BETWEEN STRUCTURES.
3. DISTURBANCE BETWEEN STRUCTURES SHALL BE LIMITED TO PROTECT NATIVE VEGETATION, SEE CLEARING AND GRUBBING LIMITS SHEET PS2.

FILE NAME	O:\proj\Y2006\06-03475-002\CAD\Dwgs\34 ELGP1.dgn
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DESIGNED BY	G. KAYS
ENTERED BY	T. PRESCOTT
CHECKED BY	M. SPILLANE
PROJ. ENGR.	D. EDWARDS
REGIONAL ADM.	X. XXXXXXXX

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
141060G		
CONTRACT NO.		LOCATION NO.
Y-9292		

MICHAEL M. SPILLANE, STATE OF WASHINGTON, 30780, REGISTERED PROFESSIONAL ENGINEER
EXPIRES: 4/5/2009 DATE

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P.E. STAMP BOX DATE

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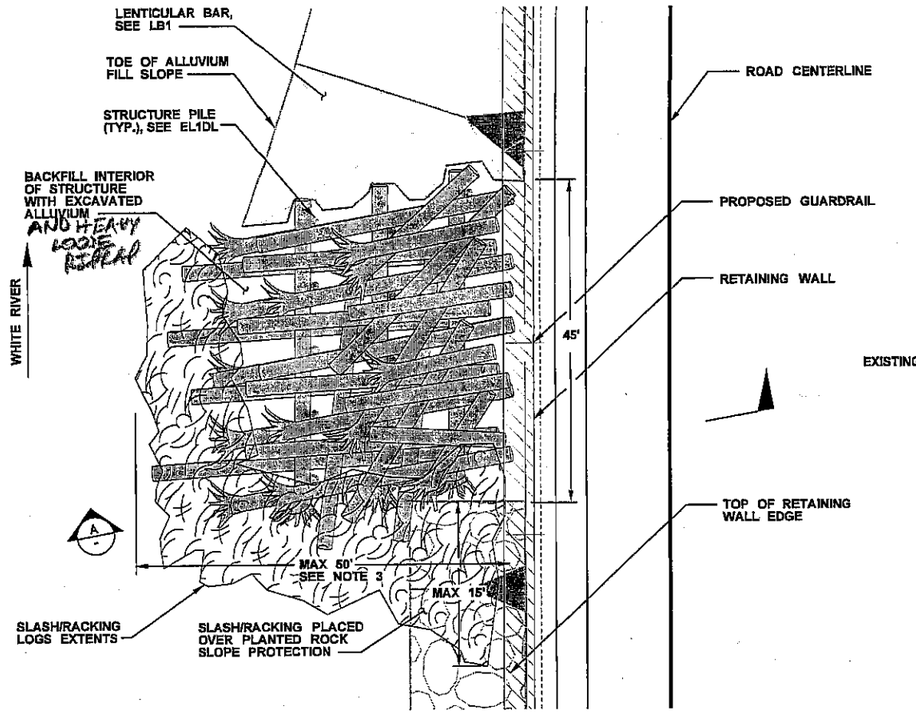
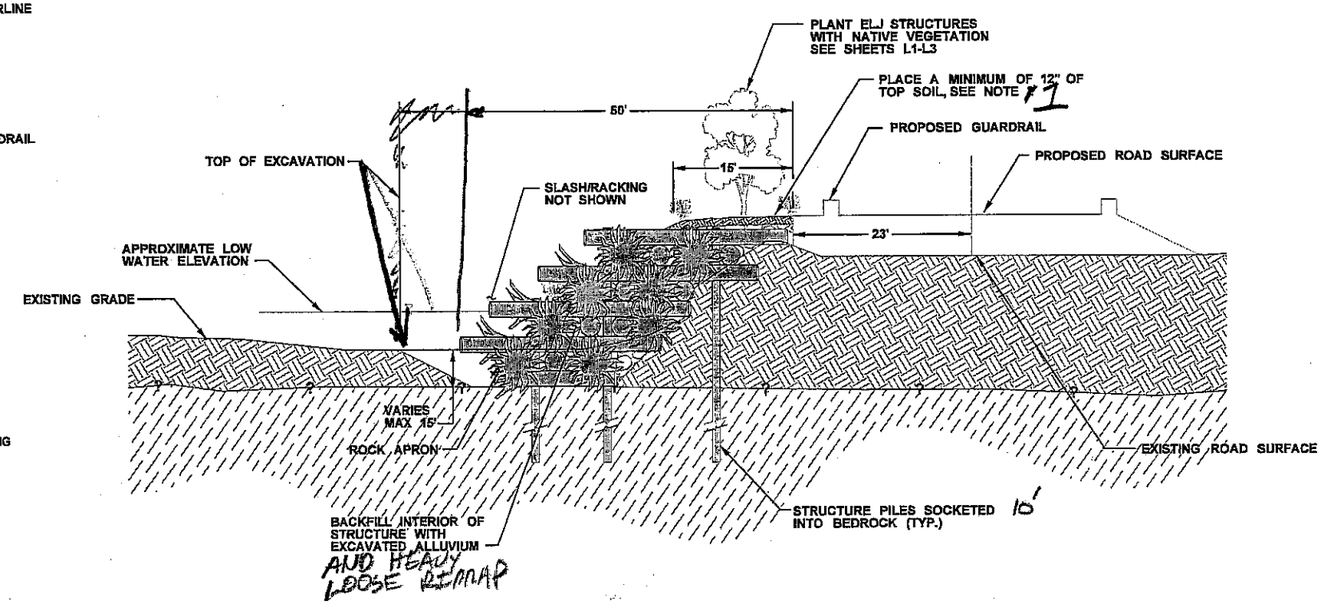
SR 410
WHITE RIVER - STABILIZE SLOPES
PROBLEM SITE 9

ELJ GRADING PLAN

Plot 1
ELGP1
SHEET 34 OF 82 SHEETS



1 ELSP PLAN - ELJ TYPE 1
NOT TO SCALE



A - SECTION - ELJ TYPE 1
NOT TO SCALE

LEGEND:

- RETAINING WALL
- UNKNOWN DEPTH TO BEDROCK
- PROPOSED GUARDRAIL
- PLANTED ALLUVIUM FILL
- RACKING AND SLASH
- BEDROCK
- NATIVE SOIL
- TOP SOIL

NOTES:

~~1. SHORING FOR ROAD PRISM CONSTRUCTION AND ELJ EXCAVATION SHALL REMAIN AS PERMANENT ROAD PRISM RETAINING WALL.~~

1. PLACE TOP SOIL ON ALL EXPOSED ALLUVIUM ABOVE LOW WATER ELEVATION.

~~2. FOR TEMPORARY SHORING/WATER MANAGEMENT, SEE EX1.~~

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DESIGNED BY	G. KAYS				CONTRACT NO.		LOCATION NO.
ENTERED BY	T. PRESCOTT				Y-9292		
CHECKED BY	M. SPILLANE						
PROJ. ENGR.	D. EDWARDS						
REGIONAL ADM.	X. XXXXXXXX	REVISION	DATE	BY			

MICHAEL M. SPILLANE, STATE OF WASHINGTON, 30780, REGISTERED PROFESSIONAL ENGINEER
EXPIRES: 4/5/2009 DATE

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WHITE RIVER - STABILIZE SLOPES
PROBLEM SITE 9

ELJ 1 PLAN/SECTIONS

Plot 1
EL1PS
SHEET 35 OF 82 SHEETS