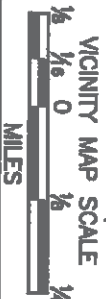
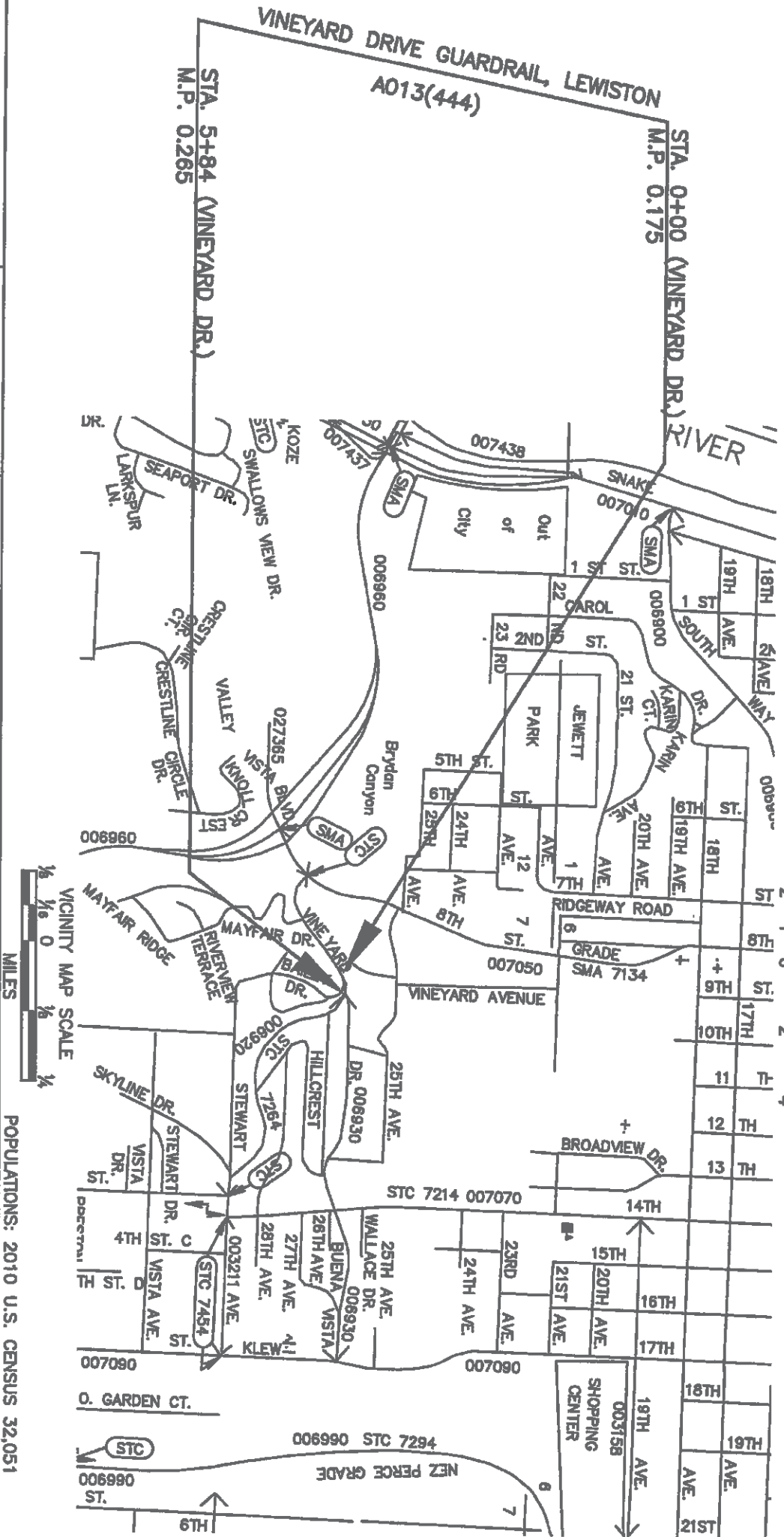


INDEX OF SHEETS	
ROADWAY PLANS	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	PROJECT CLEARANCE SUMMARY
3	ROADWAY SUMMARY
4-5	TYPICAL SECTION SHEETS
6	CONTROL & SITE PLAN
7	REMOVAL PLAN
8-10	PLAN & PROFILE SHEETS
11	DETAILS
12	TRAFFIC DETOUR PLAN
13	EROSION & SEDIMENT CONTROL

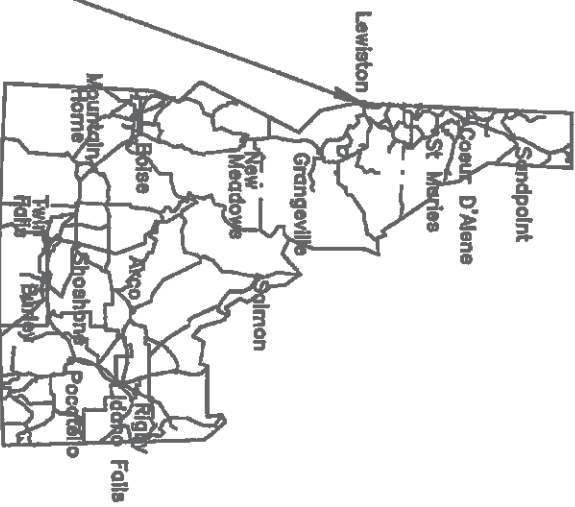
IDAHO
TRANSPORTATION DEPARTMENT

PLAN AND PROFILE OF PROPOSED
VINEYARD DRIVE GUARDRAIL, LEWISTON
FEDERAL AID PROJECT NO. A013(444)
KEY NO. 13444

October 2017



POPULATIONS: 2010 U.S. CENSUS 32,051



VINEYARD DRIVE GUARDRAIL, LEWISTON
M.P. 0.175 - M.P. 0.265
SEGMENT CODE 006920

DESIGN DESIGNATION	
ADT 2007	3557
ADT 2040	N/A
DHV 2007	356
DHV 2040	N/A
D	60/40
V	25 MPH
TRUCKS:	3%

REVISIONS	
NO.	DATE

THE DIMENSIONS
SHOWN ON THIS
PLAN SHALL BE
ATTAINED WITHIN
LIMITS OF
PRECISION THAT
GOOD CONSTRUCTION
PRACTICES
WILL PERMIT

SCALES SHOWN
ARE FOR 11" X 17"
PRINTS ONLY

CADD FILE NAME
13444RDLWG

DRAWING DATE
10/08/2017

IDAHO
TRANSPORTATION
DEPARTMENT



PROJECT NO.
A013(444)

TITLE SHEET
VINEYARD DRIVE GUARDRAIL,
LEWISTON

COUNTY
Nez Perce

KEY NUMBER
13444

SHEET 1 OF 13

APPROVED BY
12-12-2017

DATE APPROVED

ACCESS CONTROL DETERMINATION
FROM FORM ITD-606 (SUBMITTED FOR CHANGE ONLY)

Approved by Assistant Chief Engineer (Dev.): _____ Date _____

PROJECT NO. _____ LOCATION _____
A13(444) CITY OF LEWISTON TYPE OF CONTROL _____
INTERSECTION LOCAL
VINEYARD DRIVE &
VINEYARD AVENUE

DESCRIPTION OF CONTROL TYPE: CITY OF LEWISTON

ESTIMATING DATA FOR ROADWAY

TACK COAT: CSS-1 diluted emulsified asphalt for tack at 0.07 GAL/SY.
Tack shall be incidental.

FLEXIBLE PAVEMENT: Superpave Hot Mix Asphalt Class SP-3, with
PG 58-28 Asphalt Binder and 3/4" Aggregate, Plant Mix including
Asphalt, Additives, and Aggregate is estimated at 155 PCF.

AGGREGATE FOR BASE: ¾" Aggregate Type B for Base estimated at 140
PCF, including 7% moisture.

COMPACTION: All Compaction Shall be Class A.

GRANULAR BORROW: Estimated at 140 PCF including 7% moisture.

CLEARANCES

PROJECT STANDARDS
CONCEPT APPROVAL ☐ AASHTO ☐ 3R ☐ 1R ☒ STATE
DESIGN EXCEPTIONS: ☐ PM ☐ OTHER _____

PUBLIC HEARING WAIVER _____
PUBLIC HEARING DATE (latest hearing date held or scheduled for opportunity) _____
DESIGN APPROVAL _____
RECLAMATION PLAN APPROVAL NO(S) _____
AIRPORT _____
R/W CERTIFICATE: Issued by ☒ HO ☐ DISTRICT _____
TRIBAL LANDS: ☐ AGREEMENT REQUIRED ☐ SPECIAL PROVISIONS FOR CONTRACT PROPOSAL _____
BRIDGE PS & E _____
ENVIRONMENTAL DECISION: TYPE ☒ CAT-EX ☐ FONSI ☐ ROD _____
ENVIRONMENTAL RE-EVALUATION _____

PERMITS

IDAHO DEPARTMENT OF WATER RESOURCES PERMIT NO(S) _____
US ARMY CORPS OF ENGINEERS 404 PERMIT NO(S) _____
OTHER _____
DEQ SECTION 401 WATER QUALITY CERTIFICATION ☐ YES ☒ NO
NPDES GENERAL PERMIT/SWPPP REQUIRED: ☐ YES ☒ NO
THIRD PARTY INSPECTION REQUIRED ☐ YES ☒ NO
EROSION AND SEDIMENT CONTROL PLAN REQUIRED ☒ YES ☐ NO

AGREEMENTS (List Appropriate Name)

LOCAL: CITY State/Local Agreement #6203 (PD)
COUNTY _____
HIGHWAY DISTRICT _____
ROAD CLOSURE AND MAINTENANCE _____
STATE/LOCAL CONSTRUCTION _____

IRRIGATION DISTRICT(S): Crossing Agreement Required ☐ YES ☒ NO
(Signatures Required on either Structure Drawing or Bridge Sheet)

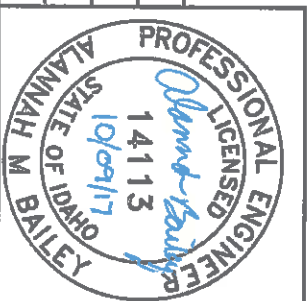
UTILITIES: List all utilities shown on plans ☒ RETAIN & PROTECT

Co. AMSTA UTILITIES (ELECTRIC & GAS)	☒			
Co. CITY OF LEWISTON (WATER, SANITARY, STORM)	☒			
Co. CENTURYLINK (TELEPHONE & FIBER OPTICS)	☒			
Co. CABLEONE (CABLE)	☒			
Co. _____	☐			
Co. _____	☐			
Co. _____	☐			

RAILROAD List all Railroads encroached upon

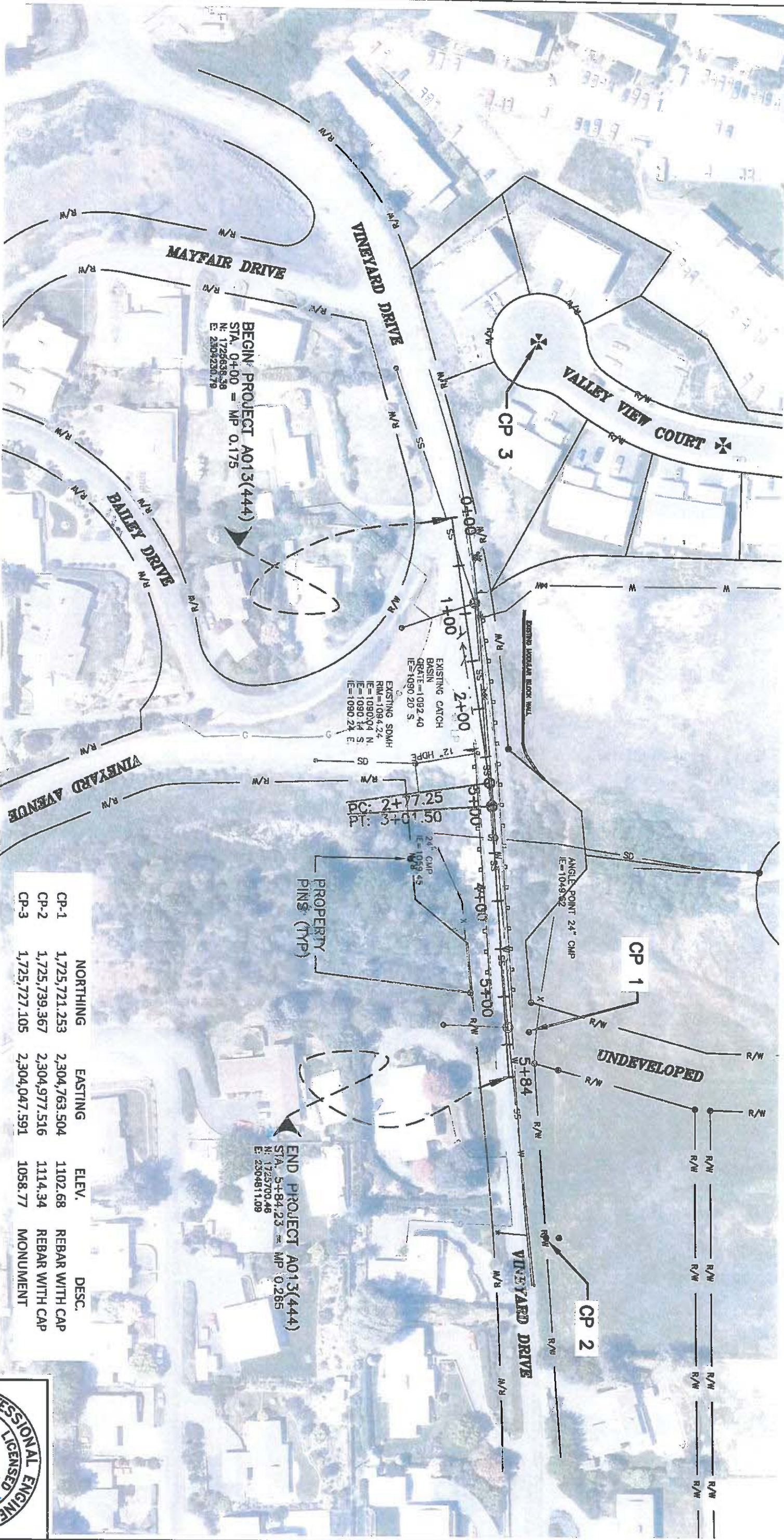
Co. _____				
Co. _____				

REVISIONS		DESIGNED A. BAILEY		SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY		PROJECT NO. A013(444)		PROJECT CLEARANCE SUMMARY		COUNTY Nez Perce	
DESCRIPTION		DESIGN CHECKED S. STUBBERS		CAD FILE NAME 13444peun.dwg		CITY OF LEWISTON		VINEYARD DRIVE GUARDRAIL, LEWISTON		KEY NUMBER 13444	
		DETAILED A. BAILEY		DRAWING DATE 10/09/2017						SHEET 2 OF 13	
		DRAWING CHECKED S. STUBBERS									



[illegible]

SECTION 7; T. 35 N; R. 5 W., B.M.



	NORTHING	EASTING	ELEV.	DESC.
CP-1	1,725,721.253	2,304,763.504	1102.68	REBAR WITH CAP
CP-2	1,725,739.367	2,304,977.516	1114.34	REBAR WITH CAP
CP-3	1,725,727.105	2,304,047.591	1058.77	MONUMENT

REVISIONS	
NO.	DATE

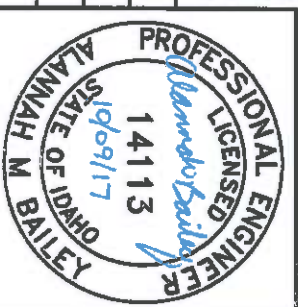
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DESIGN CHECKED	S. STUBBERS
DETAILED	A. BAILEY
DRAWING CHECKED	S. STUBBERS

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 13444.dwg
DRAWING DATE 10/09/2017

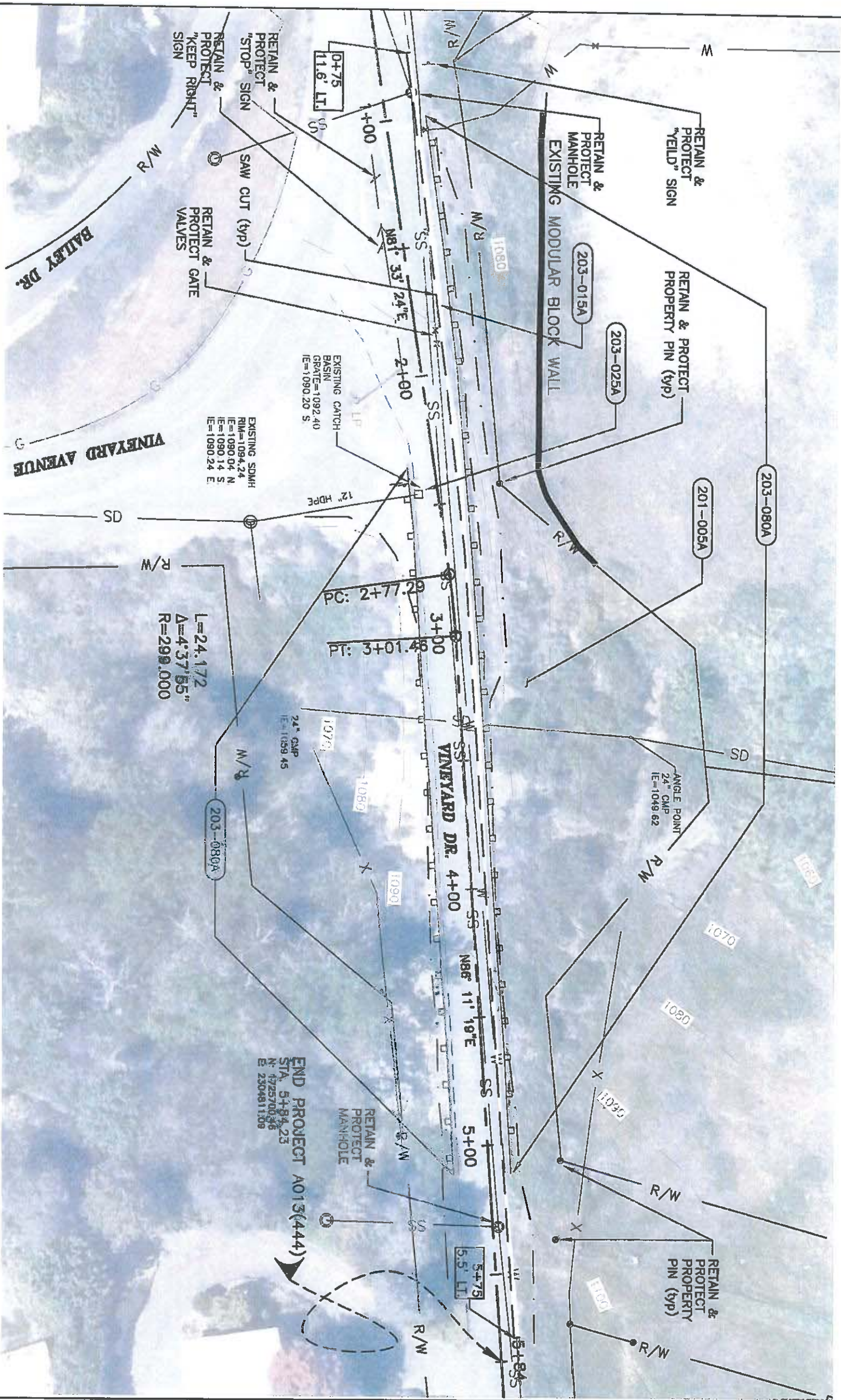
PROJECT NO.	A013(444)
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CONTROL & SITE PLAN	VINEYARD DRIVE GUARDRAIL, LEWISTON
---------------------	------------------------------------

COUNTY	Nez. Perce
KEY NUMBER	13444
SHEET 6	OF 13



SECTION 7: T. 35 N; R. 5 W., B.M.



201-005A) CLEARING AND GRUBBING
0.3 ACRE

203-015A) REMOVAL OF BITUMINOUS SURF.
72 SY 0+75, 11.6'L to 5+75, 5.5'L

203-025A) REMOVAL OF CATCH BASIN
1 EA. 2+45, 8.0'R

203-080A) REMOVAL OF GUARDRAIL
410 FT 1+00, 15.7'L to 5+10, 8.3'L
276 FT 2+34.00, 10.5'R to 5+10, 14.0'R

REVISIONS	
NO.	DATE

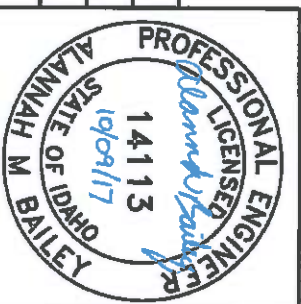
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DESIGN CHECKED	S. STUBBERS
DETAILED	A. BAILEY
DRAWING CHECKED	S. STUBBERS

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	CADD FILE NAME 13444p01.DWG
DESIGNED	A. BAILEY
DESIGN CHECKED	S. STUBBERS
DETAILED	A. BAILEY
DRAWING CHECKED	S. STUBBERS

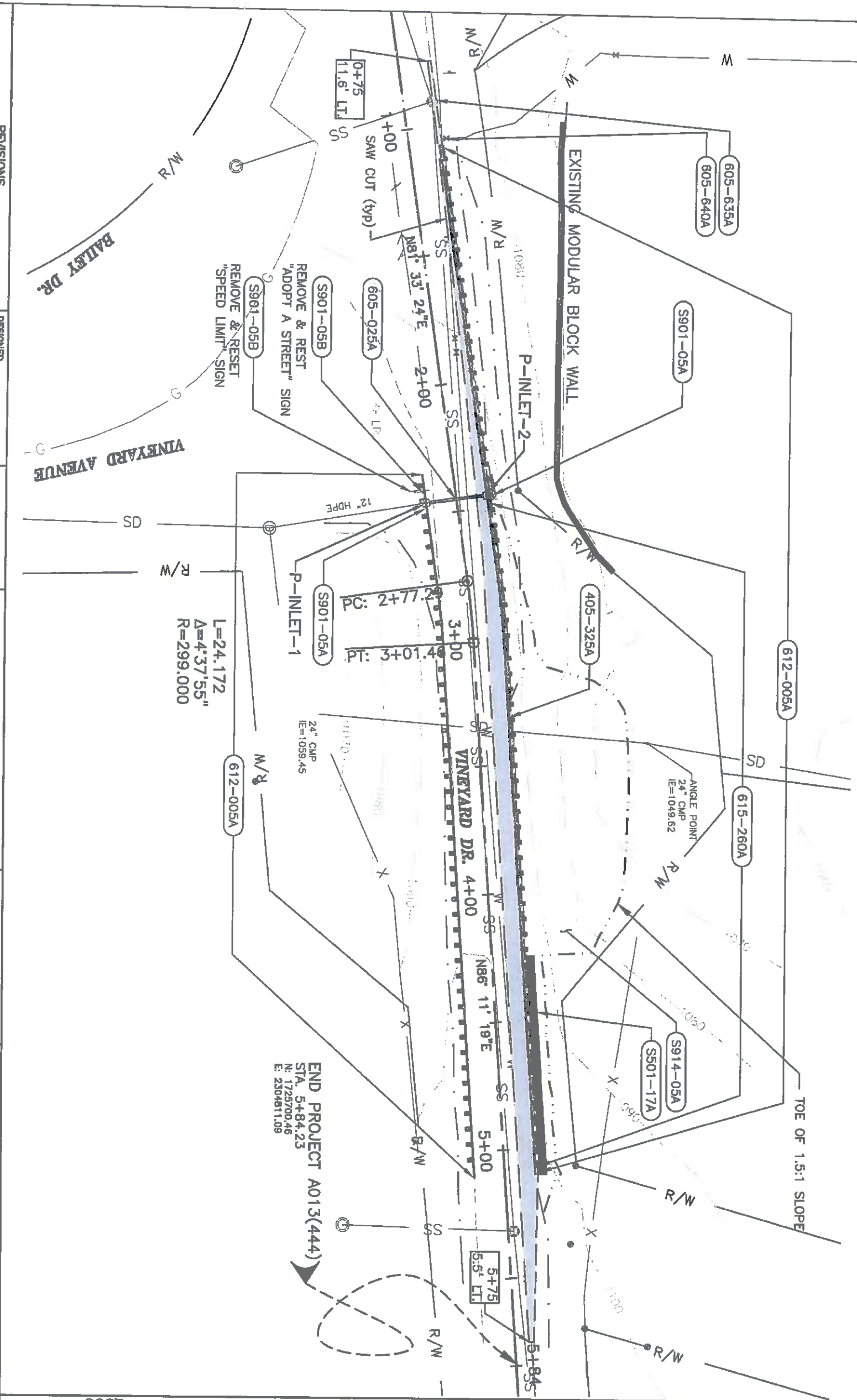
PROJECT NO.	A013(444)
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REMOVAL PLAN	VINEYARD DRIVE GUARDRAIL, LEWISTON
STA. 0+00 TO STA. 5+84	

COUNTY	Nez Perce
KEY NUMBER	13444
SHEET 7	OF 13



SECTION 7: T. 35 N; R. 5 W., B.M.



END PROJECT A013(444)
STA. 5+84.23
N: 1725700.46
E: 2304811.09

- 303-022A 3/4" AGGR TY B FOR BASE 153 TON
- 405-325A SUPERPAVE HMA PAV INCL ASPH & ADD CL SP3 52 TON
- 605-025A 12" STORM SEWER PIPE 22 FT 2+45.14, 11.0'L to 2+45.14, 11.00'R
- 605-635A ADJUST MANHOLE COVERS 1 EA 0+90.42, 11.34'L
- 605-640A ADJUST VALVE COVERS 1 EA 1+05.56, 14.8'L
- 612-005D W-BEAM GUARDRAIL 402 FT 1+08, 12.0'L to 5+10, 12.0'L 276 FT 2+34.00, 12.0'R to 5+10, 12.0'R
- 612-115C GUARDRAIL TERMINAL, TANGENT 4 EA
- 615-260A CURB TYPE 5 (ASPHALT) 265 FT 2+45, 12.0'L to 5+10, 12.0'L
- S501-17A MSE SEGMENTAL BLOCK RETAINING WALL 616 SF 4+25, 13.5'L to 5+10.5, 13.5'L
- S901-05A SP CATCH BASIN TYPE 1 1 EA 2+45.14, 12.0'L 1 EA 2+45.14, 12.0'R
- S901-05B SP REMOVE AND REST SIGN 1 EA 2+39, 15.8'R 1 EA 2+40, 12.5'R
- S914-05A SP SHOT ROCK FOR FILL 890 TON

CALCULATED STATION & OFFSETS
CURB: FACE OF CURB
GUARDRAIL: FACE OF RAIL
CATCH BASIN: FACE OF CURB

REVISIONS	
NO.	DATE

DESIGNED	A. BAILEY
DESIGN CHECKED	S. STUBBERS
DETAILED	A. BAILEY
DRAWING CHECKED	S. STUBBERS

SCALES SHOWN	ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME	13444p01.DWG
DRAWING DATE	10/09/2017

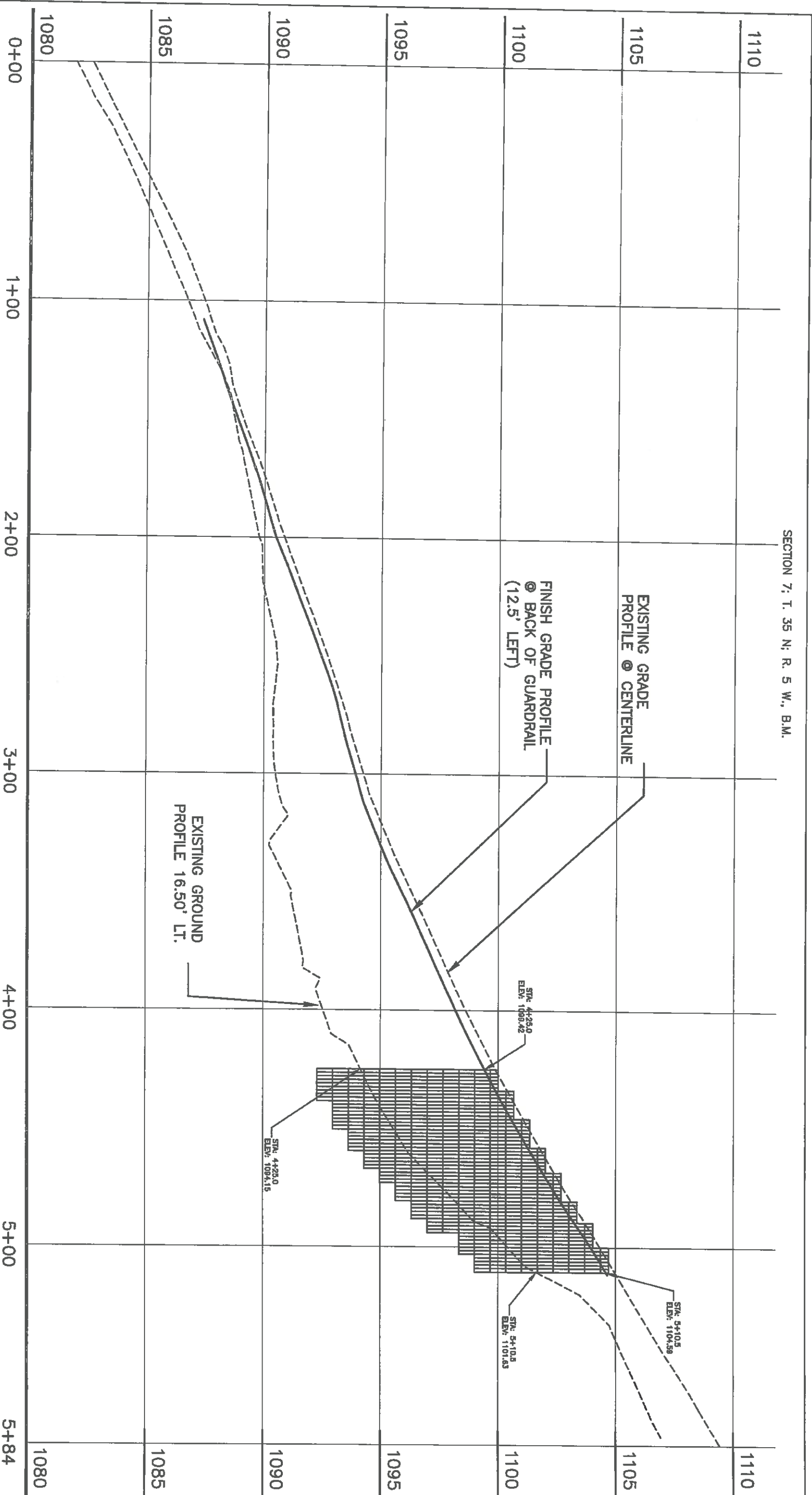
IDAHO TRANSPORTATION DEPARTMENT
CITY OF LEWISTON

PROJECT NO.	A013(444)
PLAN	VINEYARD DRIVE GUARDRAIL, LEWISTON
STA.	0+00 TO STA. 5+84

COUNTY	Nez Perce
KEY NUMBER	13444
SHEET	8 OF 13



SECTION 7; T. 35 N; R. 5 W., B.M.

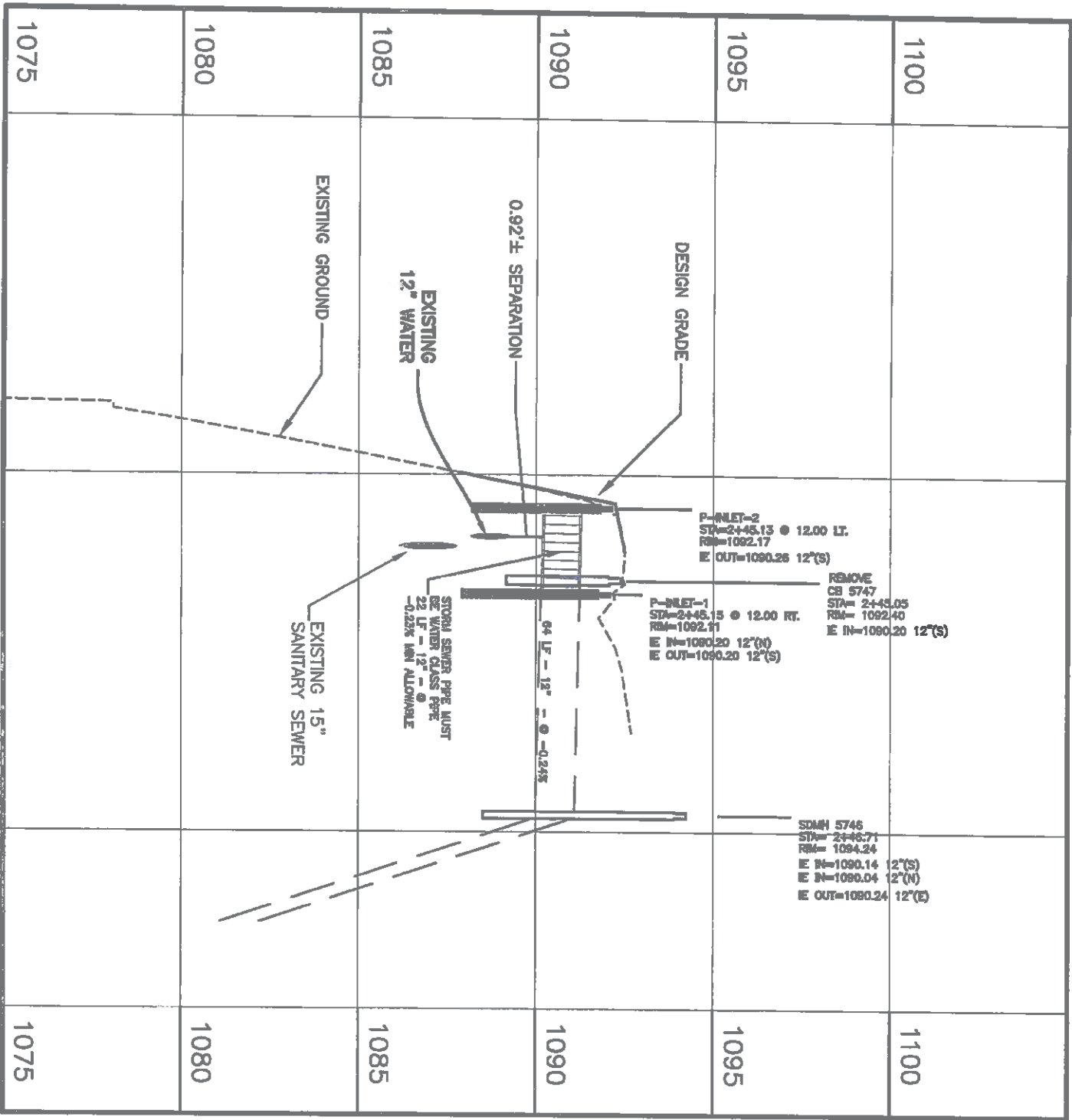


1. RETAINING WALL DETAIL FOR PRELIMINARY DESIGN PURPOSE ONLY. CONTRACTOR SHALL PROVIDE MECHANICALLY STABILIZED EARTH (MSE) WALL DESIGN STAMPED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF IDAHO.

REVISIONS		DESIGNED	DESIGNED	SCALES SHOWN ARE FOR 1" = 17'
NO.	DATE	BY	DESCRIPTION	DESIGN CHECKED
				S. STUBBERS
				DETAILED
				A. BAILEY
				DRAWING CHECKED
				S. STUBBERS
IDaho TRANSPORTATION DEPARTMENT				PROJECT NO.
CITY OF LEWISTON				PROFILE
A013(444)				VINEYARD DRIVE GUARDRAIL, LEWISTON
STA. 0+00 TO STA. 5+84				COUNTY
				Nez Perce
				KEY NUMBER
				13444
				SHEET 9 OF 13



SECTION 7; T. 35 N; R. 5 W., B.M.



REVISIONS				DESIGNED A. BAILEY	SCALES SHOWN ARE FOR 1" X 17" PRINTS ONLY
NO.	DATE	BY	DESCRIPTION		
				DESIGN CHECKED S. STUBBERS	CADD FILE NAME 13444dp.dwg
				DETAILED A. BAILEY	
				DRAWING CHECKED S. STUBBERS	DRAWING DATE: 10/06/2017

IDAHO

TRANSPORTATION

DEPARTMENT

CITY OF LEWISTON

PROJECT NO.
A013(444)

STORM DRAIN PROFILE
VINEYARD DRIVE GUARDRAIL,
LEWISTON

COUNTY

Nez Perce

KEY NUMBER

13444

SHEET 10 OF 13

PROFESSIONAL ENGINEER

14113

10/09/17

STATE OF IDAHO

ALANNAH M. BAILEY

LEGEND

TRAFFIC CONTROL SIGNS

- WORK ZONE
- SIGN
- CHANNELIZING DEVICE
- TYPE III BARRICADES

ROAD CLOSED AHEAD
W20-3
36" x 36"

DETOUR AHEAD
W20-2
36" x 36"

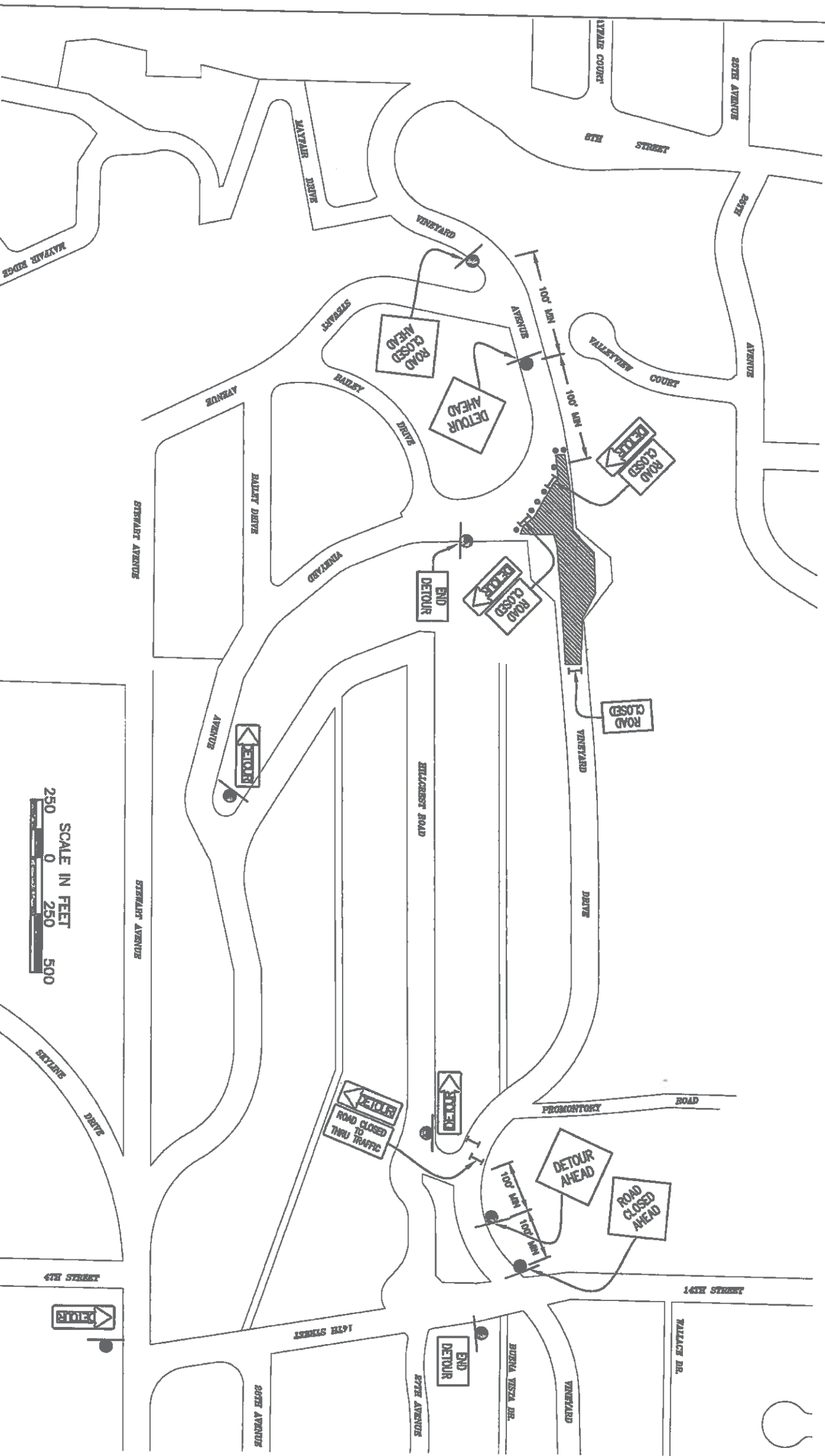
DETOUR
M4-10L & M4-10R
48" x 18"

ROAD CLOSED THRU TRAFFIC
R11-4
60" x 30"

ROAD CLOSED
R11-2
48" x 30"

END DETOUR
M4-8a
24" x 18"

TYPE III BARRICADE

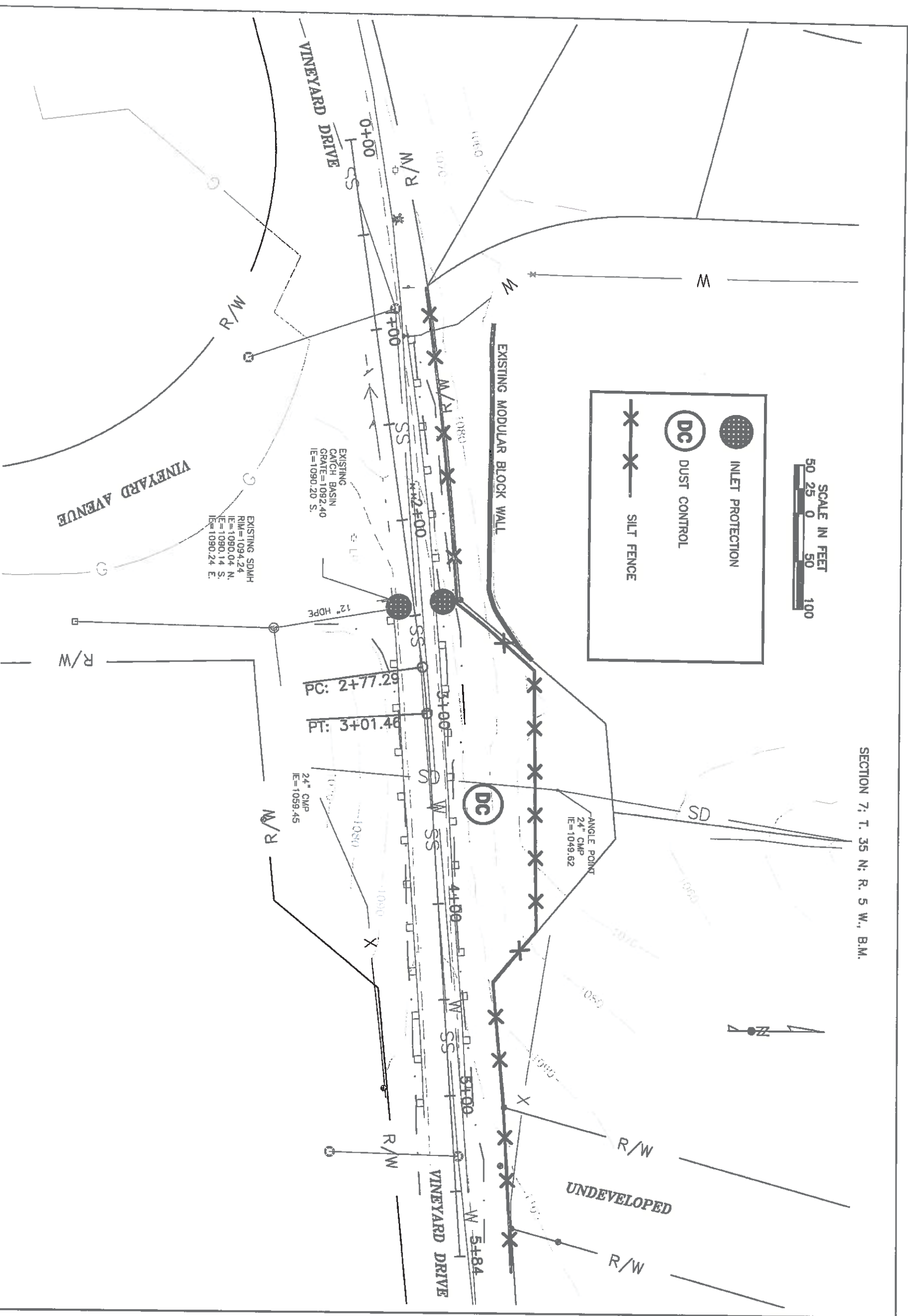
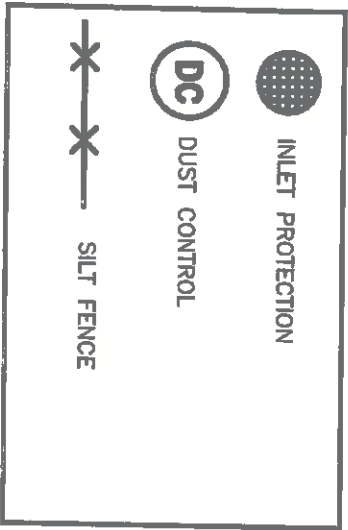


SCALE IN FEET
250 0 250 500

REVISIONS		DESIGNED		SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY		IDaho TRANSPORTATION DEPARTMENT		PROJECT NO.		TRAFFIC DETOUR PLAN		Ingraham	
NO.	DATE	BY	DESCRIPTION	A. BAILEY	A. BAILEY	DESIGN CHECKED	S. STUBBERS	CAAD FILE NAME	13444_1.CAD1.DWG	AO13(444)	VINEYARD DRIVE GUARDRAIL, LEWISTON	COUNTY	Nez Perce
			DETAILED	A. BAILEY				DRAWING CHECKED	S. STUBBERS			KEY NUMBER	13444
								DRAWING DATE	10/06/2017			SHEET	12 OF 13



SECTION 7; T. 35 N; R. 5 W., B.M.



205-060A WATER FOR DUST ABATEMENT
40 MG

212-020A SILT FENCE

540 FT

212-095A INLET PROTECTION

2 EA

REVISIONS	
NO.	DATE

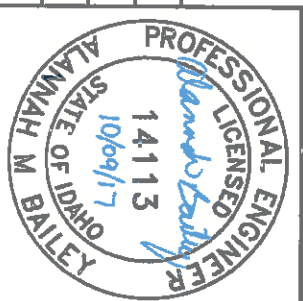
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DESIGN CHECKED	S. STUBBERS
DETAILED	A. BAILEY
DRAWING CHECKED	S. STUBBERS

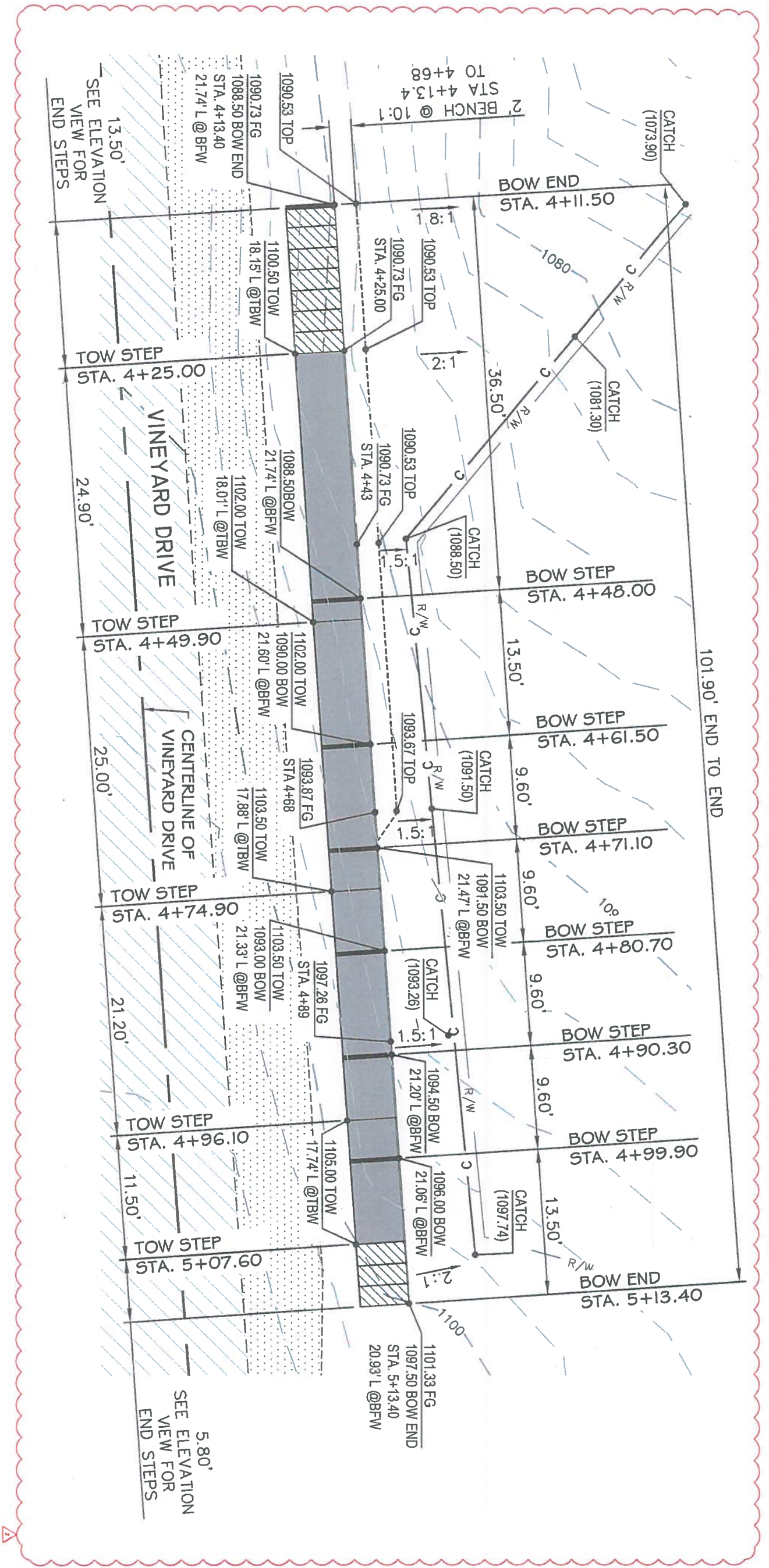
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CADD FILE NAME
13444.ecad1.DWG
DRAWING DATE
10/09/2017

IDAHO TRANSPORTATION DEPARTMENT
CITY OF LEWISTON

PROJECT NO.
A013(444)
EROSION & SEDIMENT CONTROL
VINEYARD DRIVE GUARDRAIL, LEWISTON

COUNTY
Nez Perce
KEY NUMBER
13444





LEGEND

- FG = FINISHED GRADE
- TOW = TOP OF SLOPE
- TOW = TOP OF WALL
- BOW = BOTTOM OF WALL
- TBW = TOP BACK OF WALL
- BFW = BOTTOM FACE OF WALL

RETAINING WALL PLAN



Scale: 1" = 10'



KELTIC ENGINEERING, INC.
 315 Adams Lane • Lewiston, Idaho 83501 • (208) 743-2135 • (208) 743-2136 fax
 Development • Planning • Design • Construction Management

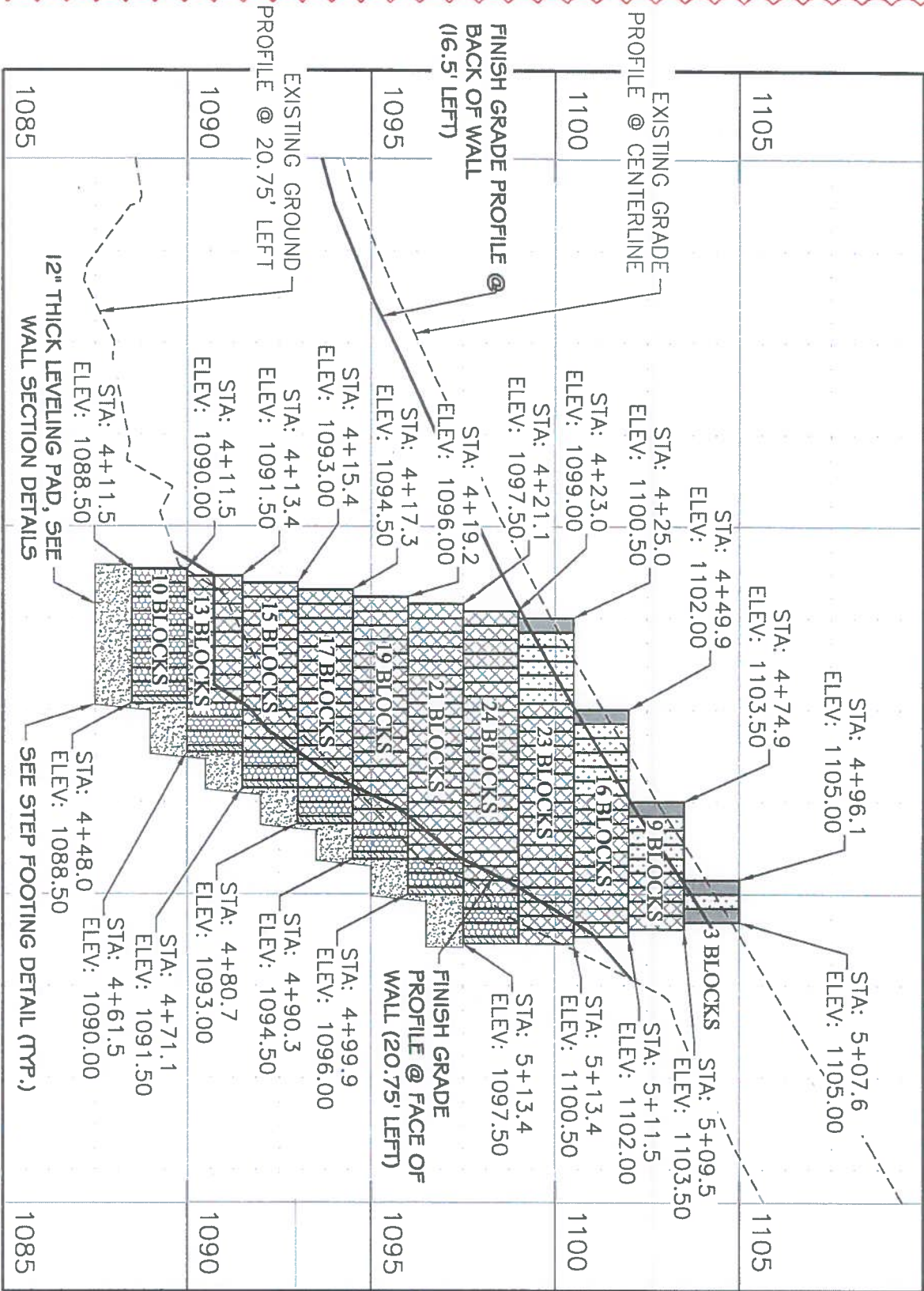
RETAINING WALL PLAN
 ITD PROJECT NO. A013 (444)
 VINEYARD DRIVE
 LEWISTON, ID 83501

No.	DATE	BY	DESCRIPTION
1	08/22/18	TML	CITY REVIEW COMMENTS 08/22/18
2	08/10/18	TML	CHANGES REQUESTED BY CITY 08/10/18

DESIGNED BY	CHKD BY
DATE	DATE
PROJECT NO.	PROJECT NO.
SHEET NO.	SHEET NO.

RETAINING WALL PROFILE

SCALE: HORIZ. 1"=40'
VERT. 1"= 4'



NOTES:

TOTAL WALL AREA = 959 SQ. FT.

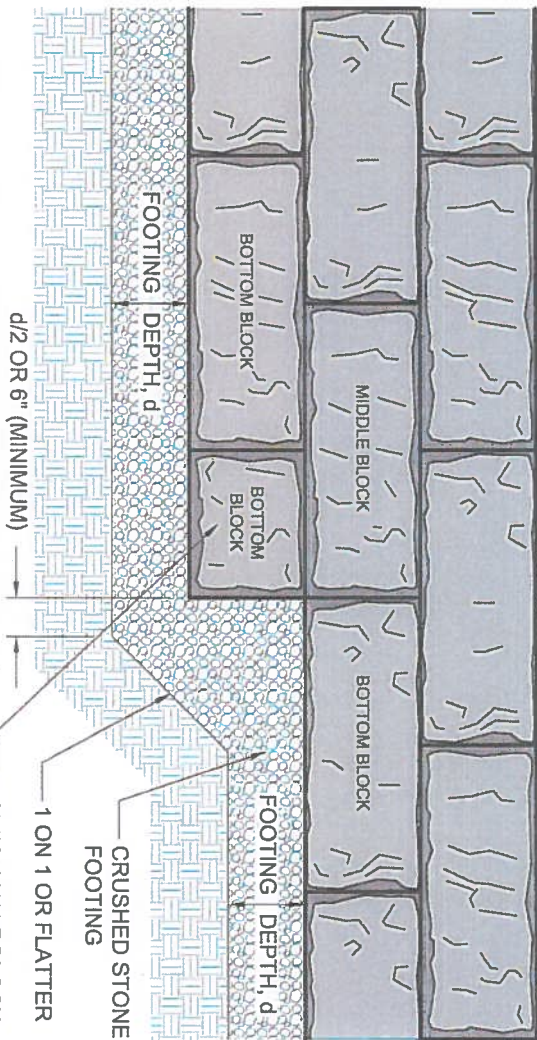
WALL ELEVATIONS ARE BASED ON TOPOGRAPHIC INFORMATION PROVIDED BY THE CITY OF LEWISTON. CONTRACTOR SHALL INFORM KELTIC ENGINEERING OF ANY EXISTING SITE ELEVATION CONDITIONS THAT ARE IN CONFLICT WITH THE PLANS PRIOR TO INSTALLATION OF THE RETAINING WALL.



REDI-ROCK BLOCK COUNT

BLOCK SIZE	QUANTITY
60" BOTTOM (9/8" SETBACK)	23
60" HALF BOTTOM (9/8" SETBACK)	7
41" MID	120
24" STRAIGHT TOP	15
24" CORNER TOP	5
TOTAL	170

STEP FOOTING DETAILS



PROFILE VIEW - CRUSHED STONE FOOTING

(No Scale)



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RETAINING WALL PROFILE

ITD PROJECT NO. A013 (444)

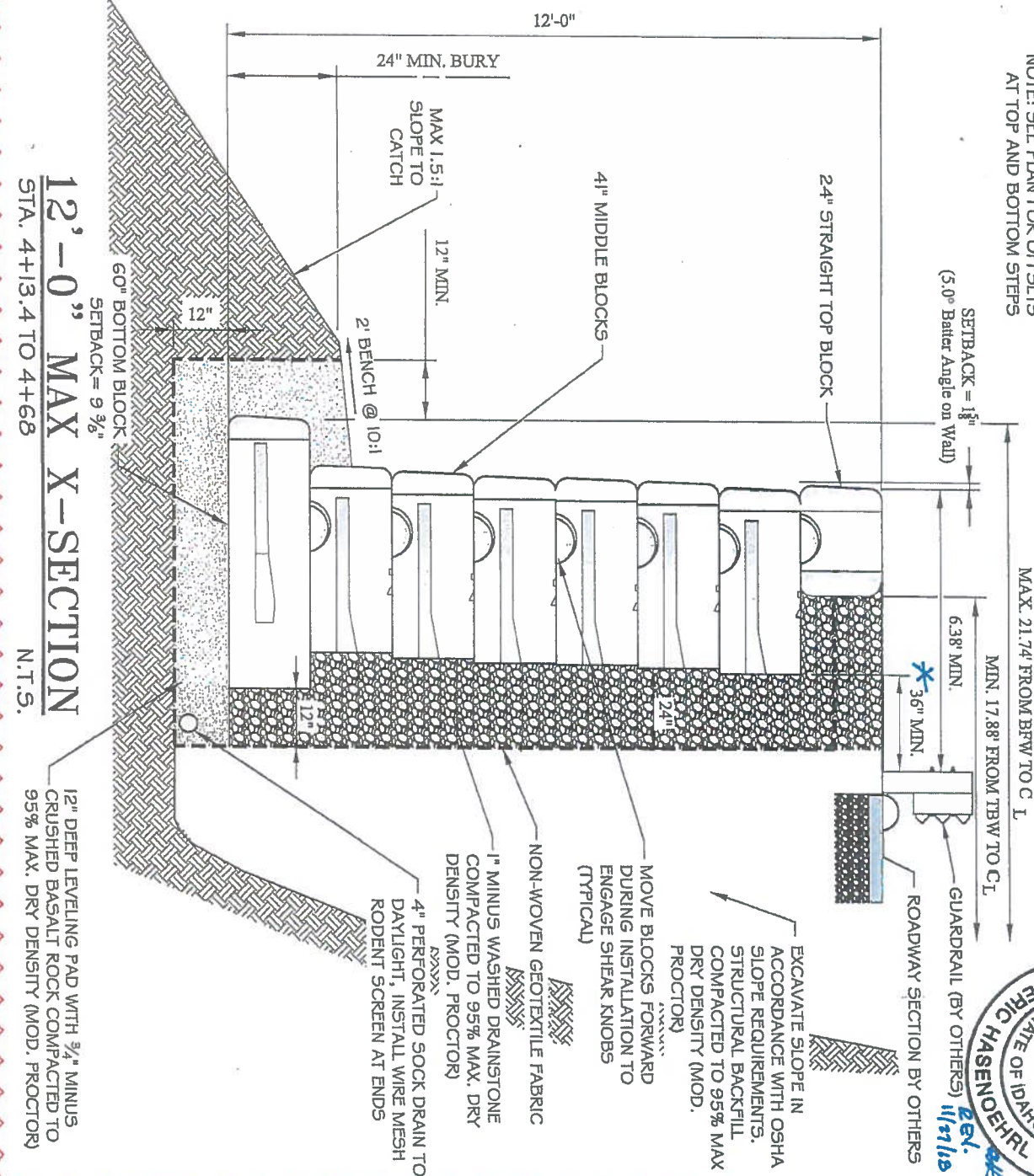
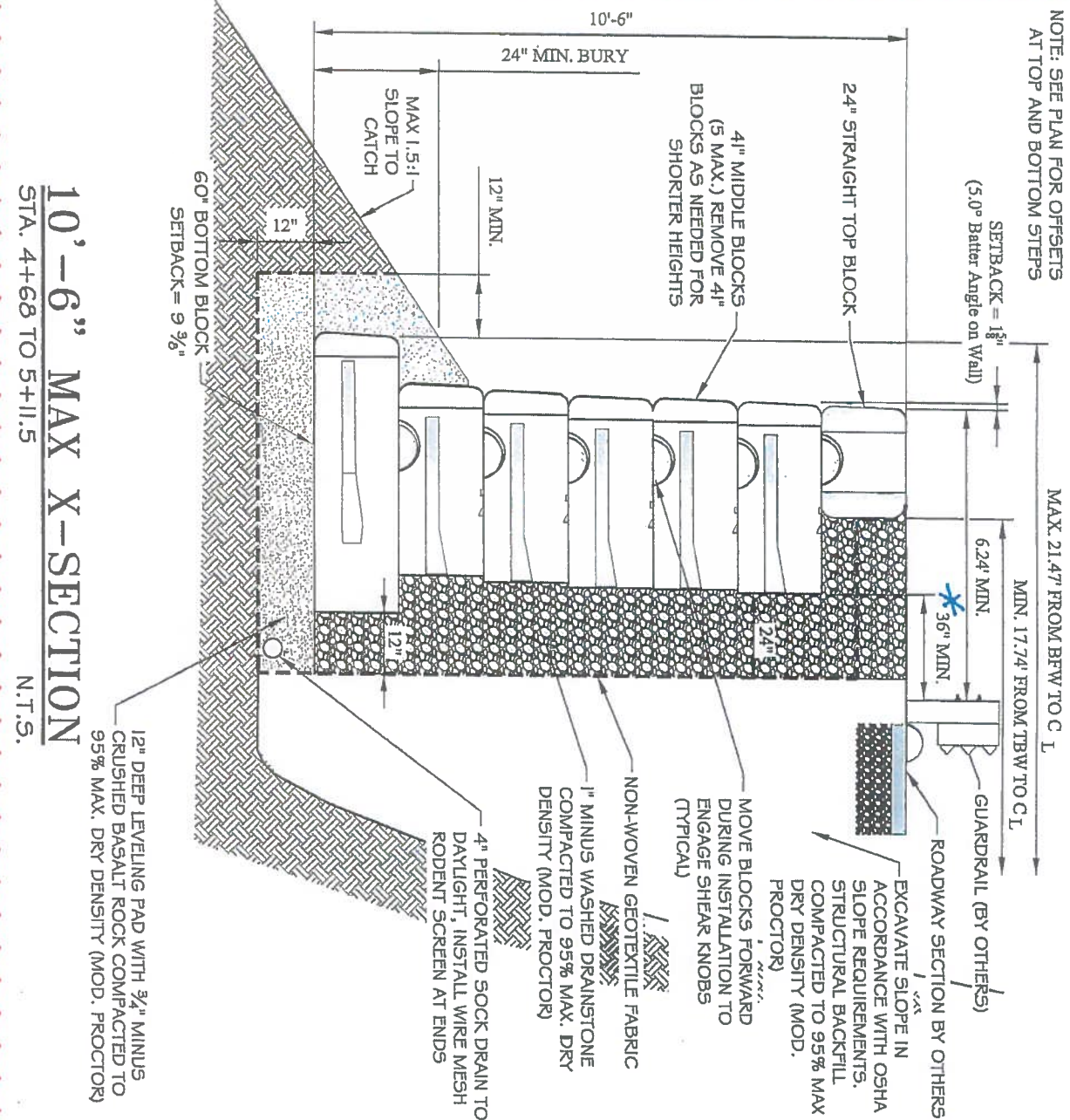
VINEYARD DRIVE
LEWISTON, ID 83501

NO.	DATE	BY	DESCRIPTION
1	08/18/18	TML	CHANGES REQUESTED BY CITY 08/18/18

DRAWN BY: MRC	CHECKED BY: ETH
DESIGNED BY: TML	DATE: 08/07/18
LAST REV: 09/19/18	PROJECT NO: 18-0047
SHEET NO: 02 OF 03	

REDI-ROCK RETAINING WALL INSTALLATION NOTES:

1. ALL REDI-ROCK RETAINING WALL INSTALLATION SHALL CONFORM TO REDI-ROCK INTERNATIONAL 2016 INSTALLATION GUIDE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SITE SAFETY AND ESTABLISHING SAFE BACKSLOPES DURING CONSTRUCTION OF WALL.
2. EXISTING SOILS MUST BE REMOVED TO THE BOTTOM OF THE LEVELING PAD ELEVATION FOR THE RETAINING WALL. THE EXISTING SOILS SHALL BE EVALUATED BY THE PROFESSIONAL ENGINEER RESPONSIBLE FOR THE WALL. ANY UNSUITABLE MATERIAL SHALL BE EXCAVATED AND REPLACED AS DIRECTED BY THE PROFESSIONAL ENGINEER. THE BASE MATERIAL MUST BE COMPACTED TO A MINIMUM OF 95% OF ASTM D 1557 MAXIMUM DRY DENSITY (MODIFIED PROCTOR).
3. NON-WOVEN GEOTEXTILE FABRIC SHALL BE TYPE III CONFORMING TO TABLE 718.07-1 OF ITD STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (SSFHC). PLACE A 12" x 18" PIECE OF NON-WOVEN GEOTEXTILE FABRIC IN THE VERTICAL JOINT BETWEEN THE BLOCKS TO HOLD THE BACKFILL MATERIAL BETWEEN THE BLOCKS IN PLACE AND PREVENT MATERIAL FROM "WASHING OUT" THROUGH THE JOINTS BETWEEN BLOCKS. SEE FIGURE 11 ON PAGE 13 OF THE REDI-ROCK INTERNATIONAL 2016 INSTALLATION GUIDE.
4. BACKFILL BETWEEN BLOCKS AND AT LEAST 12 INCHES BEHIND WALL WITH WASHED DRAINSTONE. DRAINSTONE SHALL BE SIZE 2b COARSE AGGREGATE CONFORMING TO SECTION 703.02 C AND TABLE 703.02-6 OF ITD SSFHC. PLACE NON-WOVEN GEOTEXTILE FABRIC BETWEEN THE DRAINSTONE AND THE REMAINING BACKFILL MATERIAL.
5. COMPACT THE WASHED DRAINSTONE AND BACKFILL MATERIAL TO A MINIMUM OF 95% OF ASTM D 1557 MAXIMUM DRY DENSITY (MODIFIED PROCTOR). PLACE IN 8 INCH LIFTS AND USE PROPER EQUIPMENT TO INSURE COMPLETE COMPACTION OF THE BACKFILL MATERIAL.
6. SWEEP THE TOP OF EACH COURSE OF BLOCKS CLEAN BEFORE STARTING CONSTRUCTION OF THE NEXT COURSE.
7. IF GROUND WATER SEEPAGE IS OBSERVED ALONG THE EXPOSED CUT FACE BEHIND THE RETAINING WALL, CONTACT ENGINEER IMMEDIATELY.



KELTIC ENGINEERING, Inc.

315 Adams Lane • Lewiston, Idaho 83501 • (208) 743-2135 • (208) 743-2136 fax

Development • Planning • Design • Construction Management

RETAINING WALL DETAILS

ITD PROJECT NO. A013 (444)

VINEYARD DRIVE

LEWISTON, ID 83501

DATE	BY	DESCRIPTION
02/22/18	TML	CITY REVIEW COMMENTS 02/22/18
02/10/18	TML	CHANGES REQUESTED BY CITY 02/10/18
3/22/18	BT	Norm 40000

6064

7/26/18

Eric Hasenoe

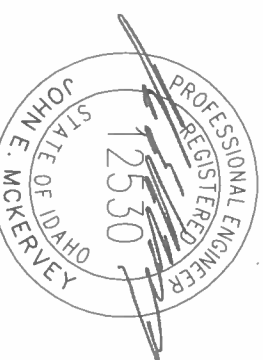
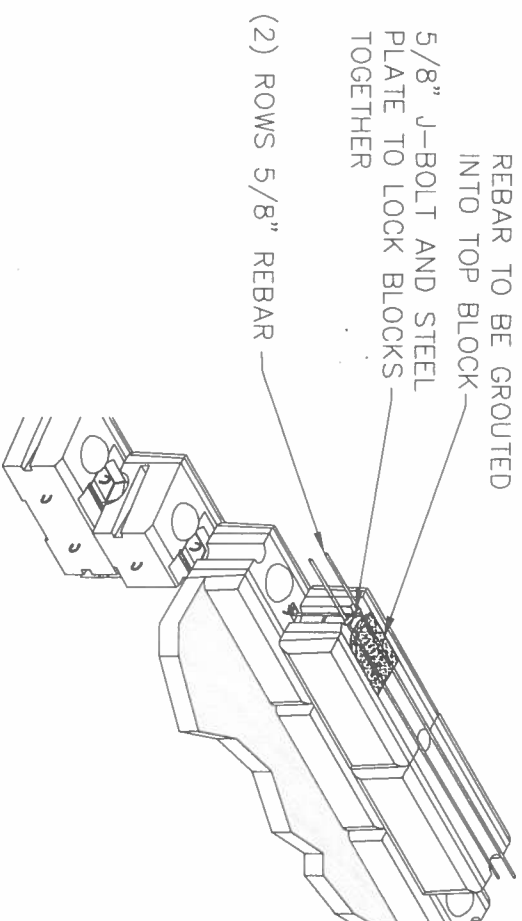
STATE OF IDAHO

PROFESSIONAL ENGINEER

03 OF 03

* IF ANY PORTION IS LESS THAN 36" THEN REPLACE ENTIRE TOP BLOCK WITH Force Protection Block (see attached detail). IN NO CASE SHALL THE DISTANCE BE LESS THAN 12'-0" 11/27/18

THE FORCE PROTECTION SYSTEM
INCORPORATED IN THIS WALL SYSTEM
IS CAPABLE OF WITHSTANDING A 6,000 LBS
POINT LOAD IN ACCORDANCE WITH
ASCE 7-10 SECTION 4.5.3

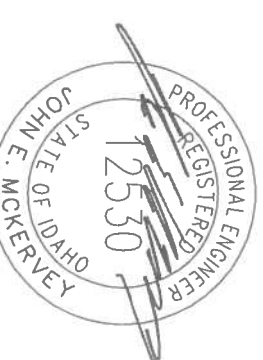
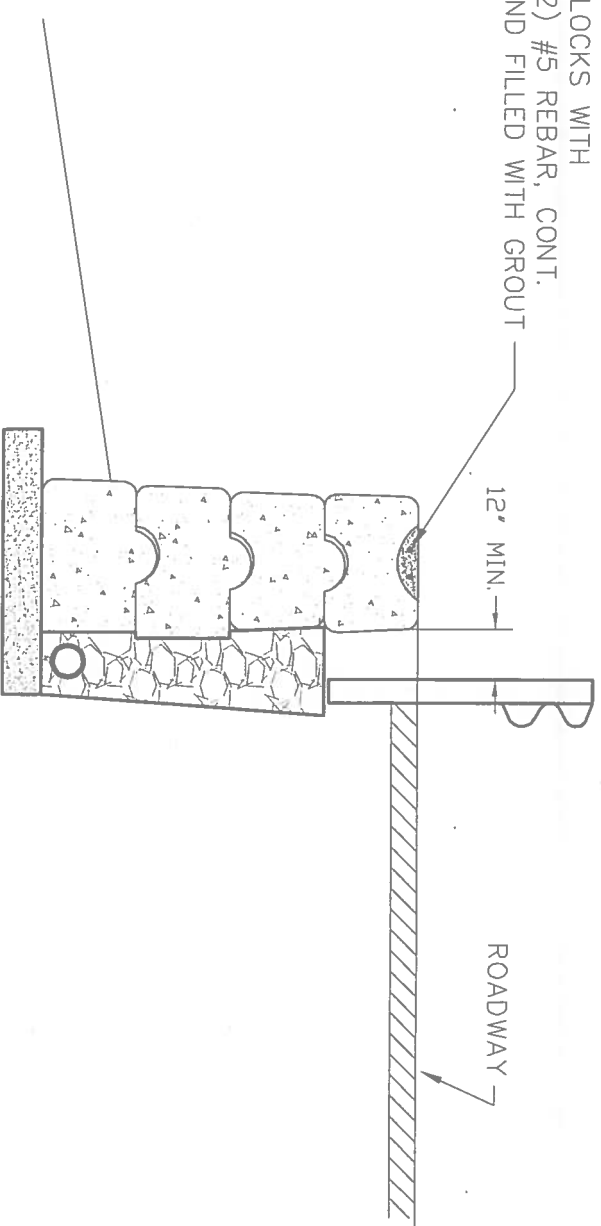


JM ENGINEERING

2706 N. BLUE RAVEN LANE
SPOKANE, WASHINGTON 99224
(509) 455-8760 / CELL (509) 953-9771

VINEYARD ROAD
ROADSIDE RETAINING WALLS
FORCE PROTECTION SYSTEM
JOB #: 18-522
DATE: NOVEMBER 2018

REDI ROCK
FREE STANDING
BLOCKS WITH
(2) #5 REBAR, CONT.
AND FILLED WITH GROUT



JM ENGINEERING

2706 N. BLUE RAVEN LANE
SPOKANE, WASHINGTON 99224
(509) 244-1619 / CELL (509) 953-9771

VINEYARD ROAD
ROADSIDE RETAINING WALLS
WALL SECTION WITH BARRIER
JOB #: 18-522
DATE: NOVEMBER 2018