

REGAN VINEYARDS WINERY LLC  
USE PERMIT

1600 GREEN VALLEY ROAD WATSONVILLE, CA 95076 APN 109-061-38

DIRECTIONS:

Take exit 426 to merge onto CA-152 E/Main St toward Watsonville/Gilroy 0.7 mi  
Use the left 2 lanes to turn left onto S Green Valley Rd. Take Green Valley Road north approximately 6.4 miles. Property is on the right marked REGAN on a 6"x6"x36" post. Take right fork driveway .25 mile up to Regan front gates.

OWNER CONTACT INFORMATION:

John Bargetto  
Aptos, CA 95003  
Phone: 831-332-6159  
Email: jbargetto@bargetto.com

CONSULTANTS:

ARCHITECT:

Hall & Bartley Architecture and Planning  
P.O. Box 609  
Santa Rosa, CA 95402  
Phone 707.544.1642

CIVIL ENGINEER:

Michael F Goodhue  
220 Playa De Ninos  
Watsonville, Ca. 95076  
Phone (831) 763-1661

GEOTECHNICAL ENGINEER:

Dees & Associates Inc.  
501 Mission Street- Suuite A  
Santa Cruz, CA 95060

GEOLOGIST:

Zinn Geology  
Erik N. Zinn  
112 Sage Hen Ave., Lewistown, MT 59457  
License No.: LPG 6854, CEG2139  
Email: enzinn@gmail.com  
Phone: 831.334.4833

SEPTIC SYSTEM DESIGN

Meyer Engineering, Inc.  
1796 Laurel Glen Road  
Soquel, CA 95073  
paul@meyerengineering.com  
(831) 800 2244

TITLE 24:

A+ Energy  
41 D Hanger Way  
Watsonville, CA 95076

BUILDING DESIGNER:

Cadhomes Building Design  
508 Santa Margarita Drive  
Aptos, CA 95003  
Email: cadhomes@netscape.com  
Cell: 831-345-6892

SHEET INDEX

ARCHITECTURAL:

A1 COVER SHEET  
UP.1 PLOT PLAN, PROJECT DATA  
UP.2 SITE & ROOF PLAN  
UP.3 FLOOR PLANS  
UP.4 EXTERIOR ELEVATIONS  
UP.5 BUILDING SECTIONS

CIVIL GRADING PLAN:

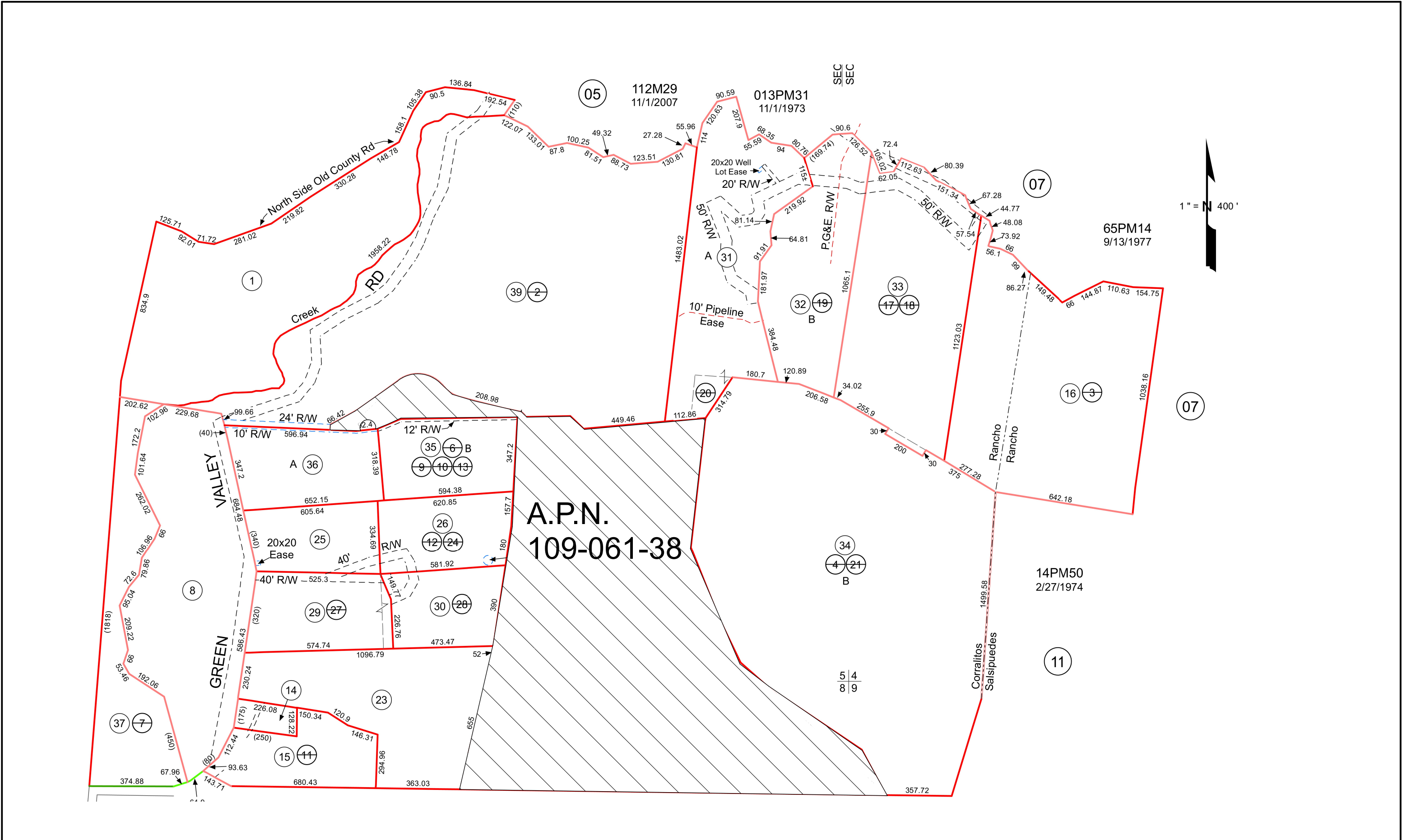
C1 SITE PLAN, NOTES, EARTHWORK VOLUMES, IMPERVIOUS AREA CALCULATIONS  
C2 DRIVEWAY PLAN & PROFILE STA 0+00 TO STA 8+00  
C3 DRIVEWAY PLAN & PROFILE STA 8+00 TO STA 15+00  
C4 DRIVEWAY PLAN & PROFILE STA 15+00 TO STA 22+00  
C5 DRIVEWAY PLAN & PROFILE STA 22+00 TO 27+00  
C6 DRIVEWAY PLAN STA 25+00 TO 33+00  
C7 DRIVEWAY PROFILE STA 27+00 TO 33+00  
C8 DRIVEWAY CROSS SECTIONS  
C9 DRIVEWAY CROSS SECTIONS  
C10 DRIVEWAY CROSS SECTIONS  
C11 DRIVEWAY CROSS SECTIONS  
C12 PARKING LOT & WINERY BUILDING CROSS SECTIONS  
C13 WATER POLLUTION CONTROL PLAN NOTES  
C14 TOPOGRAPHIC MAP  
APPENDIX 1 CONTECH CHAMBERMAXX STORM WATER RETENTION SYSTEM STANDARD INSTALLATION DETAIL (TWO SHEETS)

WASTEWATER:

WW1 COVER SHEET  
WW2 EXISTING SITE LAYOUT  
WW3 WASTEWATER SYSTEM PLAN  
WW4 WASTE WATER SYSTEM SPECIFICATIONS & EROSION CONTROL NOTES

PROCESS WATER NOTICE OF INTENT:

1 LETTER OF INTENT  
2 LETTER OF INTENT  
3 SEPTIC LEACHLINE, TANK & WATER SYSTEM LOCATIONS



BUILDING MATERIALS & FINISHES



METAL RAILINGS:  
MATTE BLACK METAL



BODY COLOR:  
BENJAMIN MOORE 174  
SUNFLOWER FIELDS



EXTERIOR STONE:  
SANTA CRUZ MOUNTAIN  
GOLDEN GRANITE



ROOF COVERING  
CLAY BARREL TILE



WINDOW FINISH  
MILGARD MATTE BLACK METAL

REVISION TABLE	NUMBER	DATE	REVISOR	DESCRIPTION

REGAN VINEYARDS  
1400 GREEN VALLEY ROAD  
WATSONVILLE, CA 95076

DRAWINGS PROVIDED BY:  
CADDHOMES BUILDING DESIGN  
508 SANTA MARGARITA DRIVE  
APTOS, CA 95003 CONTACT:  
PHONE 831-345-6892 OR EMAIL:  
CADDHOMES@NETSCAPE.COM

DATE:

12/1/2020

SCALE:

SHEET:

A1



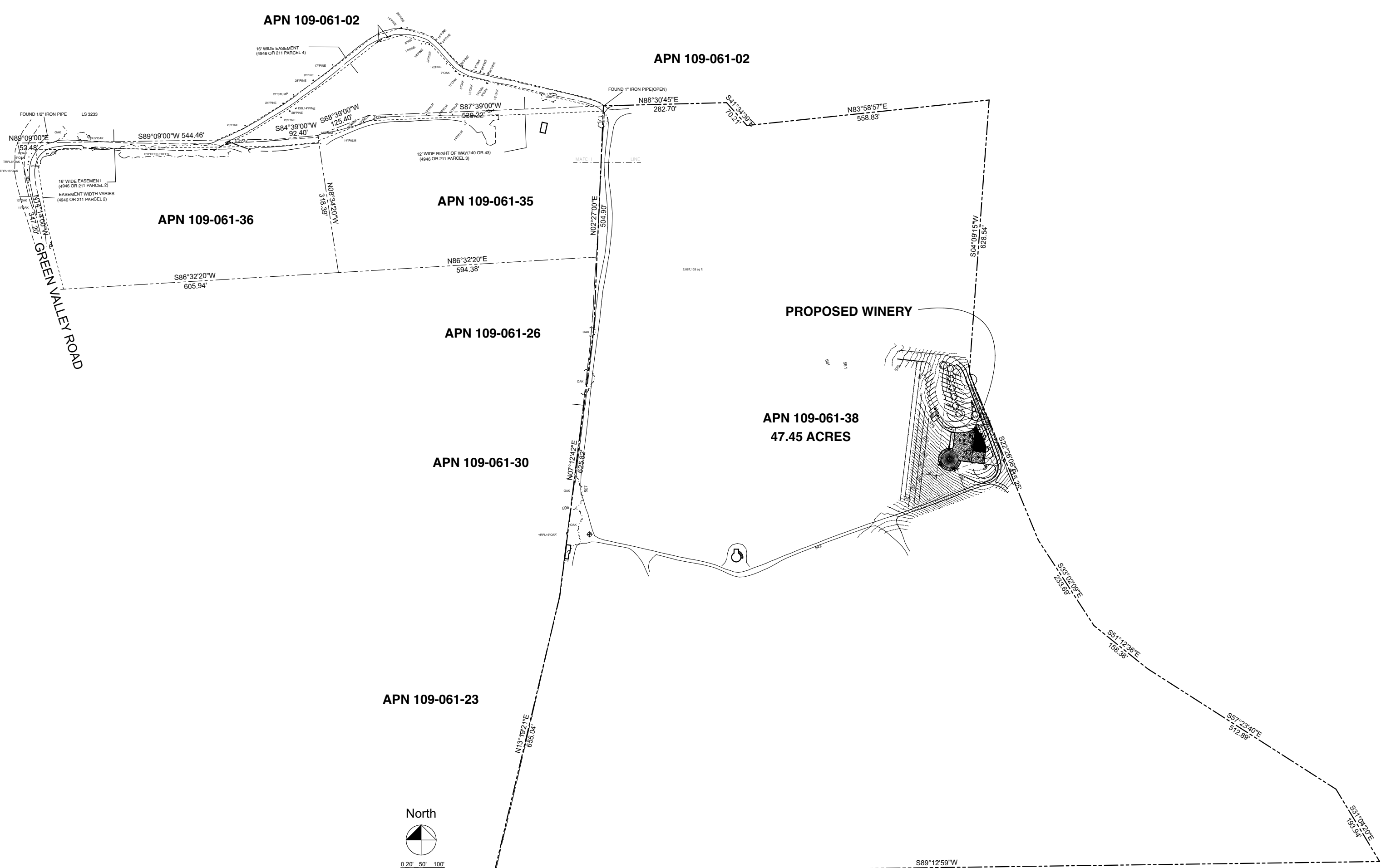
# REGAN VINEYARDS WINERY, LLC

## USE PERMIT

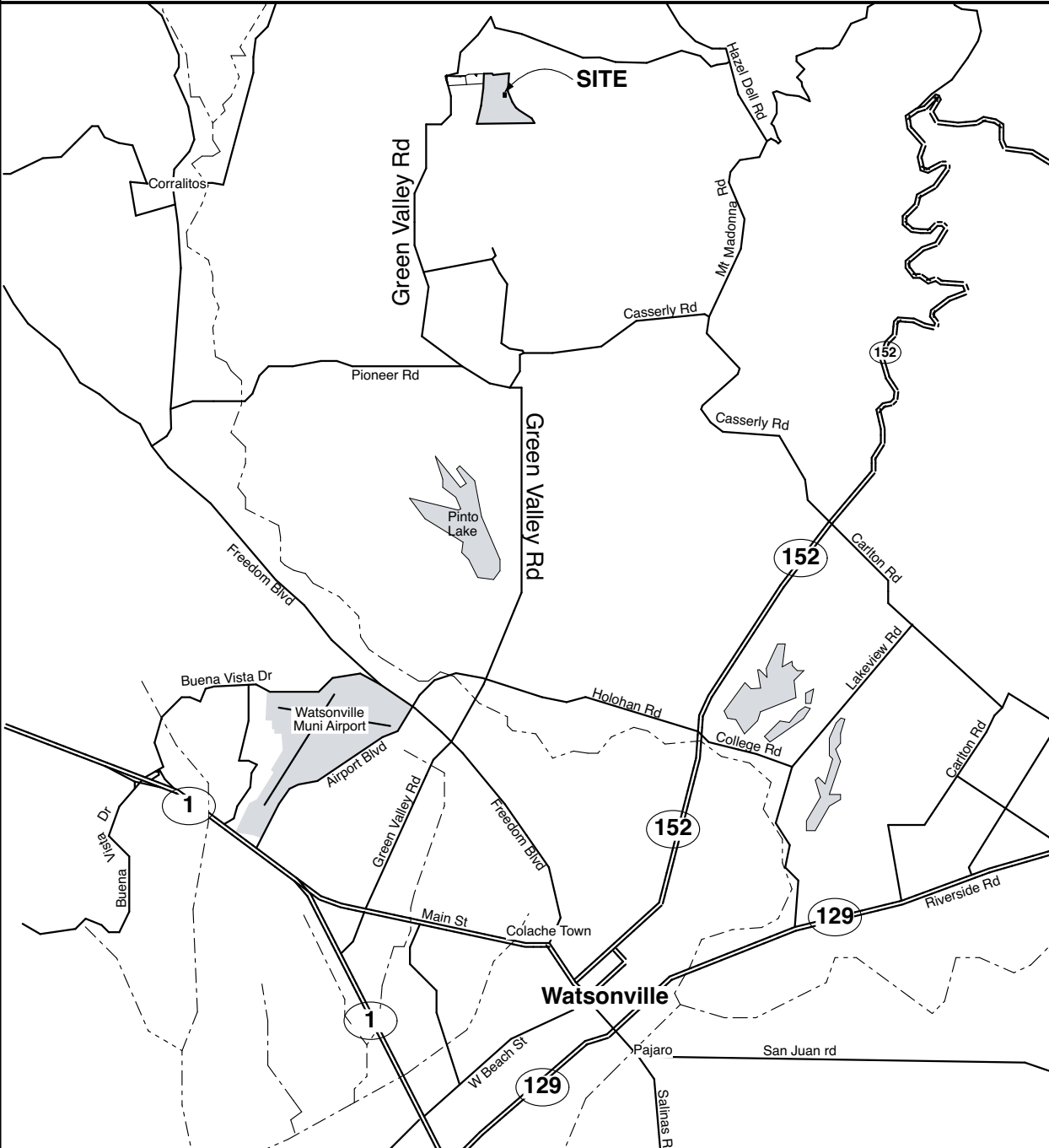
1600 GREEN VALLEY ROAD

WATSONVILLE, SANTA CRUZ COUNTY, CALIFORNIA

ABBREVIATIONS		DRAWING INDEX			PROJECT DATA			
A.B.	ANCHOR BOLT	I.D.	INSIDE DIAMETER	SHEET	DESCRIPTION	DATE	Owner:	Regan Vineyards Winery, LLC.
A.C.	ASPHALT CONCRETE	I.E.	INVERT ELEVATION	UP.1	Title Sheet, Abbreviations,Plot Plan,	10/27/2020	Address:	3535 North Main Street
ACCES.	ACCESSORIES	INT.	INTERIOR		Vicinity Map, Project Data, Drawing Index		Assessor's Parcel Number:	109-061-38
A.D.	AREA DRAIN	INV.	INVERT	CIVIL			Lot Size:	47.45 Acres
A.F.F.	ABOVE FINISH FLOOR	I.W.	INDUSTRIAL WASTE				Floor Area: Main Floor:	
AGG.	AGGREGATE	JST.	JOIST				- Hospitality & Offices:	1,538 Sq.Ft.
AL.	ALUMINUM	LAV.	LAVATORY				- Guest Suite:	888 Sq.ft.
A.P.	ACCESS PANEL	LB.	POUND(S)	UP.2	Site Plan & Roof Plan	10/27/2020	- Production Area:	1,861 Sq.ft.
APPROX.	APPROXIMATELY	L.F.	LINEAR FEET	UP.3	Floor Plans	10/27/2020	- Circulation:	243 Sq.Ft.
ARCHT	ARCHITECT	MAX.	MAXIMUM	UP.4	Exterior Elevations	10/27/2020		
BD.	BOARD	M.B.	MACHINE BOLT	UP.5	Building Sections	10/27/2020	Lower Floor:	
BLDG.	BUILDING	MECH.	MECHANICAL				- Barrel Storage:	2,468 Sq.Ft.
BLKG.	BLOCKING	MEMB.	MEMBRANE				- Garage & Storage:	979 Sq.Ft.
BM.	BEAM	MFG.	MANUFACTURER				- Circulation:	202 Sq.Ft.
B.N.	BOUNDARY NAILING	M.H.	MANHOLE				Covered Area:	
B.O.	BOTTOM OF	MIN.	MINIMUM				- Hospitality:	1,154 Sq.Ft.
B.S.	BOTH SIDES	MISC.	MISCELLANEOUS				- Production Work Area:	1,114 Sq.ft.
BTU.	BRITISH THERMAL UNIT	M.I.W.	MALLEABLE IRON WASHER				Terrace:	1,017 Sq.Ft.
CAB.	CABINET	MTL.	METAL				Occupancy Group:	A-2, B, F-1, S-1, R-3
CARP.	CARPET	(N)	NEW				Construction Type:	VI
C.B.	CARRIAGE BOLT	N.G.	NATURAL GRADE				Sprinklered:	Yes
C.I.	CAST IRON	N.I.C.	NOT IN CONTRACT					
C.J.	CONTROL JOINT	NO.	NUMBER					
C.L.	CENTER LINE	N.T.S.	NOT TO SCALE					
CLG.	CEILING	O.	OVER					
CLOS.	CLOSET	O.C.	ON CENTER					
CLR.	CLEAR	OD.	OUTSIDE DIAMETER					
C.M.P.	CORRUGATED METAL PIPE	O.F.R.D.	OVER FLOW ROOF DRAIN					
C.M.U.	CONCRETE MASONRY UNIT	P.E.N.	PLYWOOD EDGE NAILING					
COL.	COLUMN	P.L.	PROPERTY LINE					
CONC.	CONCRETE	P.LAM.	PLASTIC LAMINATE					
CONT.	CONTINUOUS	PLUMB.	PLUMBING					
DBL.	DOUBLE	PLY.	PLYWOOD					
D.F.	DOUGLAS FIR	P.S.F.	POUNDS PER SQUARE FOOT					
DEPT.	DEPARTMENT	P.S.I.	POUNDS PER SQUARE INCH					
D.I.	DROP INLET	P.T.D.F.	PRESSURE TREATED DOUGLAS FIR					
DIA.	DIAMETER	PVC	POLYVINYL CHLORIDE					
DIM.	DIMENSION	Q.T.	QUARRY TILE					
D.J.	DOWEL JOINT	R.	RADIUS OR RISER					
DN.	DOWN	R.A.	RETURN AIR					
D.S.	DOWN SPOUT	R.C.P.	REINFORCED CONCRETE PIPE					
DWG.	DRAWINGS	R.D.	ROOF DRAIN					
(E)	EXISTING	REFRIG.	REFRIGERATOR					
EA.	EACH	REINFC.	REINFORCED, REINFORCING					
E.J.	EXPANSION JOINT	REQD.	REQUIRED					
EL.	ELEVATION, VERTICAL	R.W.	RIGHT OF WAY					
ELEC.	ELECTRICAL	RWD.	REDWOOD					
ELEV.	ELEVATION	R.W.L.	RAIN WATER LEADER					
EQ.	EQUAL	S.A.	SUPPLY AIR					
E.S.	EACH SIDE	SCHED.	SCHEDULE					
EXT.	EXTERIOR	SH.	SHEET					
EXT.	EXISTING	SIM.	SIMILAR					
F.C.	FINISH CEILING	S.N.	SEE NOTE					
F.D.	FLOOR DRAIN	SPEC.	SPECIFICATION					
FF.	FINISH FLOOR	SQ.	SQUARE					
FIN.	FINISH	SS.	STAINLESS STEEL					
F.O.	FACE OF	S.S.	SANITARY SEWER					
F.O.M.	FACE OF MASONRY	STA.	STATION					
F.O.S.	FACE OF STUD	STD.	STANDARD					
FT.	FEET OR FOOT	STOR.	STORAGE					
FTG.	FOOTING	STRUCT.	STRUCTURAL					
GA.	GAUGE	T & B.	TOP AND BOTTOM					
GAL.	GALLON	T & G.	TONGUE AND GROOVE					
GALV.	GALVANIZED	TEMP.	TEMPORARY OR TEMPERED					
G.B.	GRAB BAR	T.O.	TOP OF					
G.S.	GLUED-LAMINATED BEAM	T.S.	TUBE STEEL					
G.S.M.	GALVANIZED SHEET METAL	TYP.	TYPICAL					
GYP.	GYPSUM	U.B.C.	UNIFORM BUILDING CODE					
H.B.	HOSE BIBB	U.I.	UNDERWRITER'S LABORATORY					
H.C.	HANDICAP	U.N.O.	UNLESS NOTED OTHERWISE					
HDR.	HEADER	VERT.	VERTICAL					
HWR.	HARDWARE	V.G.	VERTICAL GRAIN					
HORZ.	HORIZONTAL	V.I.F.	VERIFY IN FIELD					
H.P.	HORSE POWER	W.	WITH					
HR.	HOUR	W.C.	WATER CLOSET					
HT.	HEIGHT	WD.	WOOD					
		W.H.	WATER HEATER					
		W.R.	WATER RESISTANT					
		WO.	WITHOUT					
		W.W.F.	WELDED WIRE FABRIC					

DRAWING INDEX			PROJECT DATA		
SHEET	DESCRIPTION	DATE	SHEET	DESCRIPTION	DATE
UP.1	Title Sheet, Abbreviations,Plot Plan, Vicinity Map, Project Data, Drawing Index	10/27/2020	ARCHITECTURE		
			UP.2	Site Plan & Roof Plan	10/27/2020
			UP.3	Floor Plans	10/27/2020
			UP.4	Exterior Elevations	10/27/2020
			UP.5	Building Sections	10/27/2020
PLOT PLAN			VICINITY MAP		
					

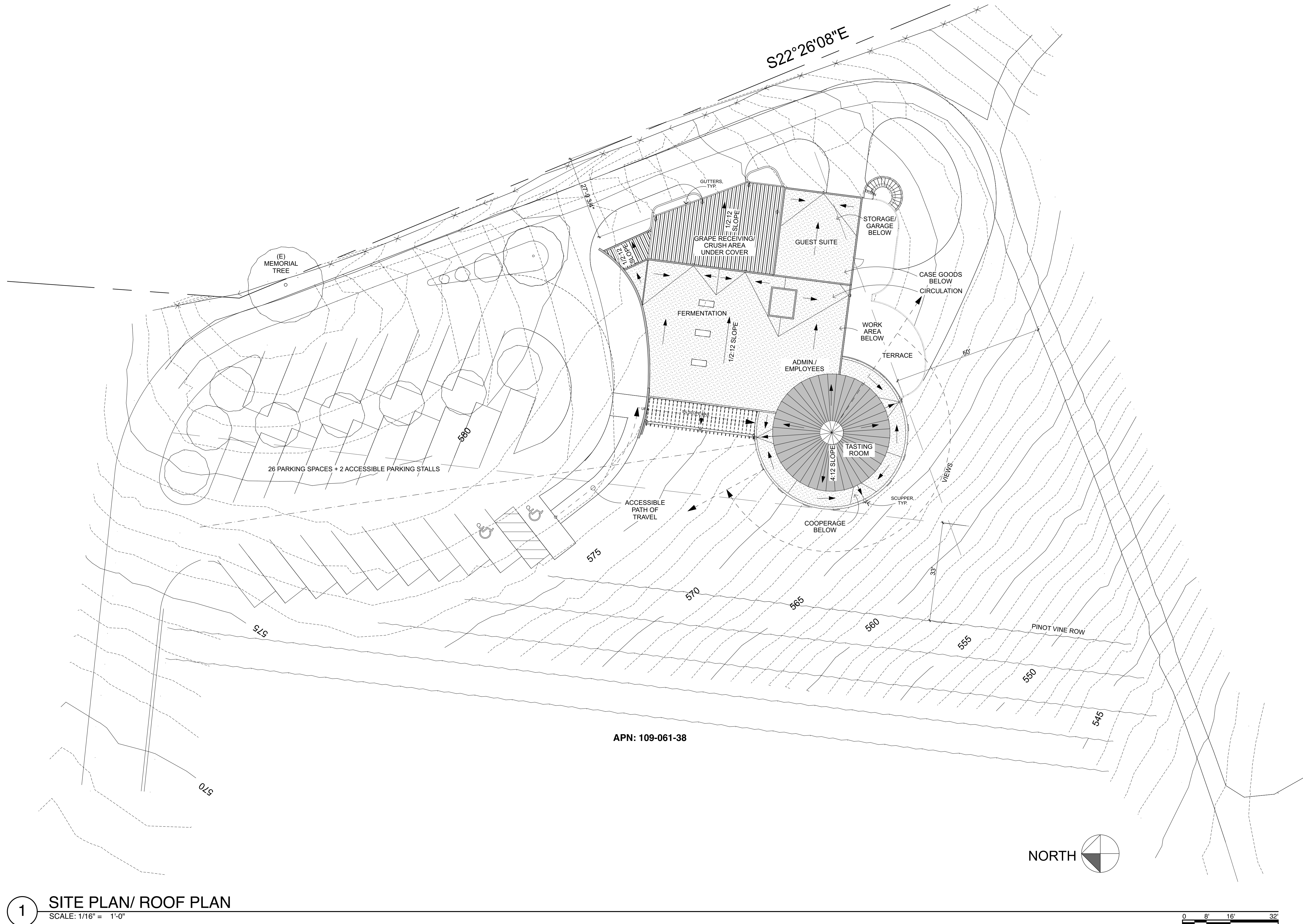
PROJECT DATA	
Owner:	Regan Vineyards Winery, LLC.
Address:	3535 North Main Street Soquel, Ca 95073
Assessor's Parcel Number:	109-061-38
Lot Size:	47.45 Acres
Floor Area: Main Floor:	
- Hospitality & Offices:	1,538 Sq.Ft.
- Guest Suite:	888 Sq.ft.
- Production Area:	1,861 Sq.ft.
- Circulation:	243 Sq.Ft.
Lower Floor:	
- Barrel Storage:	2,468 Sq.Ft.
- Garage & Storage:	979 Sq.Ft.
- Circulation:	202 Sq.Ft.
Covered Area:	
- Hospitality:	1,154 Sq.Ft.
- Production Work Area:	1,114 Sq.ft.
Terrace:	1,017 Sq.Ft.
Occupancy Group:	A-2, B, F-1, S-1, R-3
Construction Type:	VI
Sprinklered:	Yes

VICINITY MAP	
	



/Volumes/Shared/PROJECTS/2020 Projects/2015 Regan Winery Use Permit/2015-2020-10-28-Regan Winery.pln10/29/20

© 2016 HALL & BARTLEY



REGAN VINEYARDS WINERY, LLC  
USE PERMIT  
1600 GREEN VALLEY ROAD  
WATSONVILLE SANTA CRUZ COUNTY CALIFORNIA

SITE PLAN/ ROOF PLAN

PROJECT 2015  
DRAWN AM  
CHECK JAH  
SCALE AS NOTED  
DATE 10/27/2020



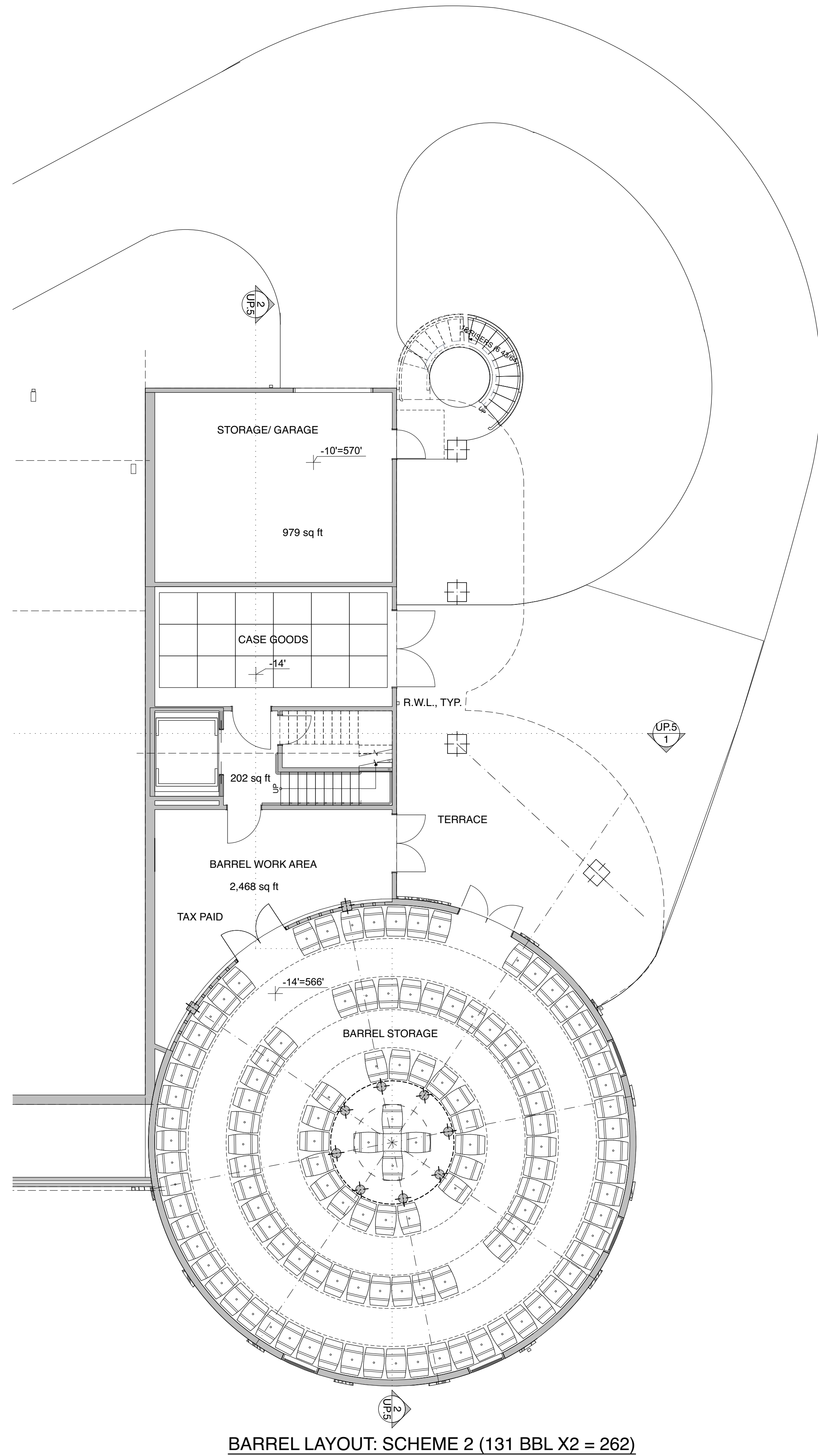
UP.2

HALL & BARTLEY  
ARCHITECTURE AND PLANNING  
P.O. BOX 849, SANTA ROSA, CALIFORNIA 95402, (707) 544-1642

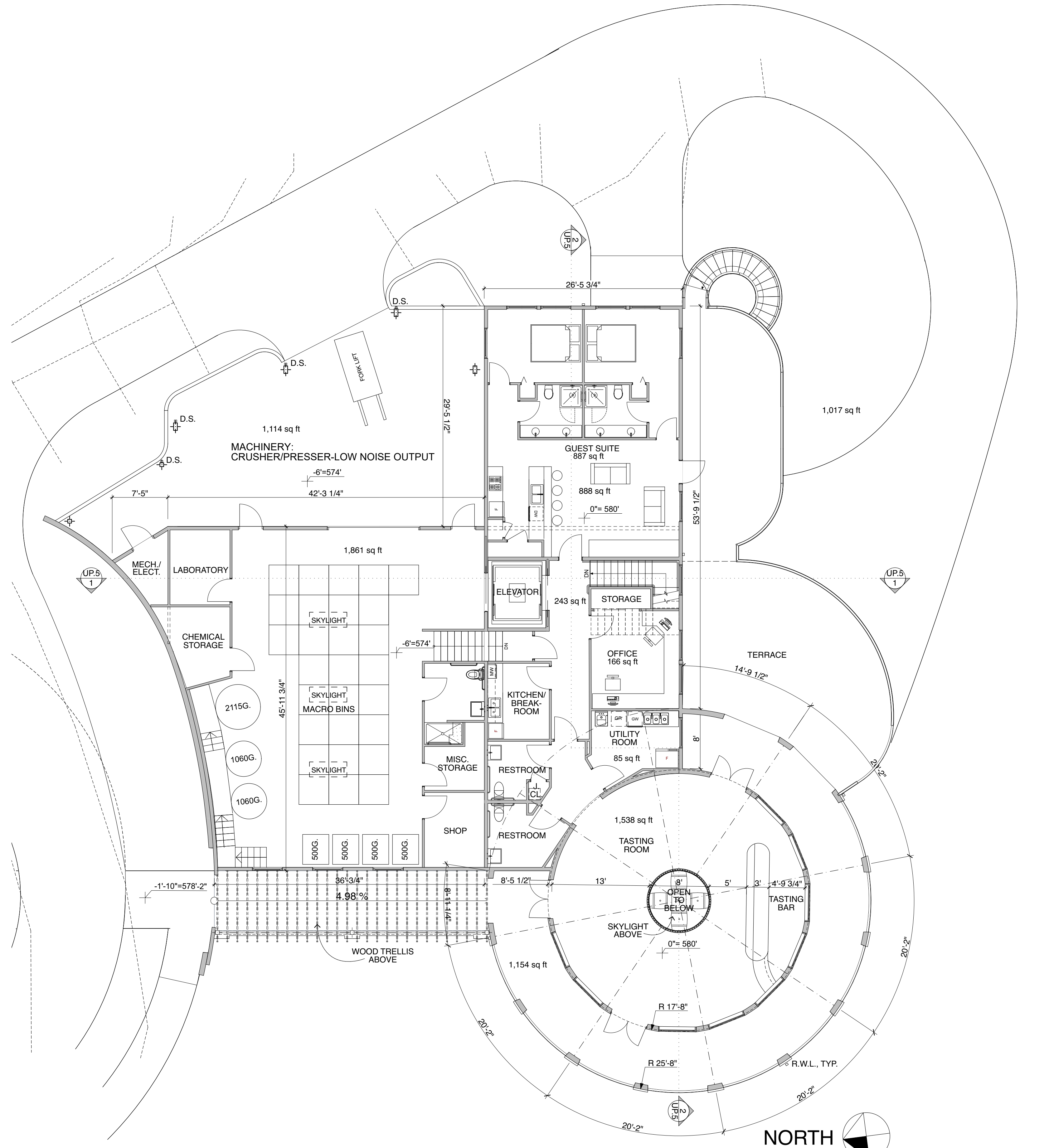
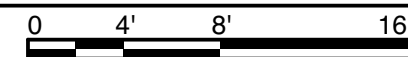


/Volumes/Shared/PROJECTS/2020 Projects/2015-2020-10-28-Regan Winery.pln10/29/20

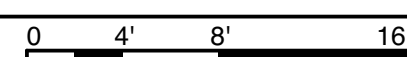
© 2016 HALL & BARTLEY



2 BASEMENT FLOOR PLAN  
SCALE: 1/8" = 1'-0"



1 MAIN FLOOR PLAN  
SCALE: 1/8" = 1'-0"



REGAN VINEYARDS WINERY, LLC  
USE PERMIT  
1600 GREEN VALLEY ROAD  
WATSONVILLE SANTA CRUZ COUNTY CALIFORNIA

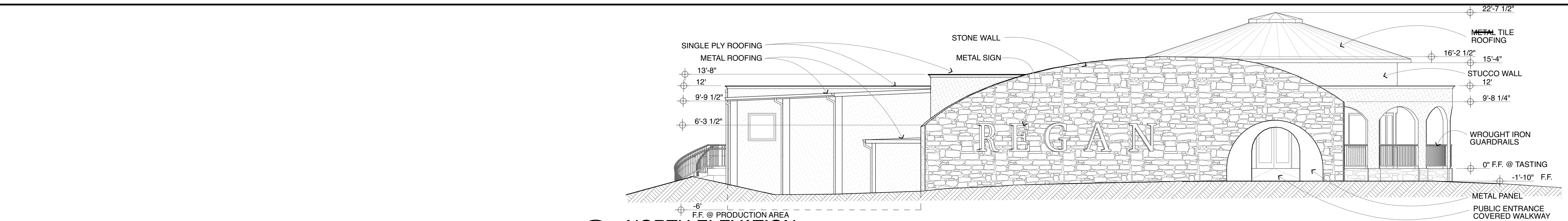
FLOOR PLANS

PROJECT 2015  
DRAWN AM  
CHECK JAH  
SCALE AS NOTED  
DATE 10/27/2020

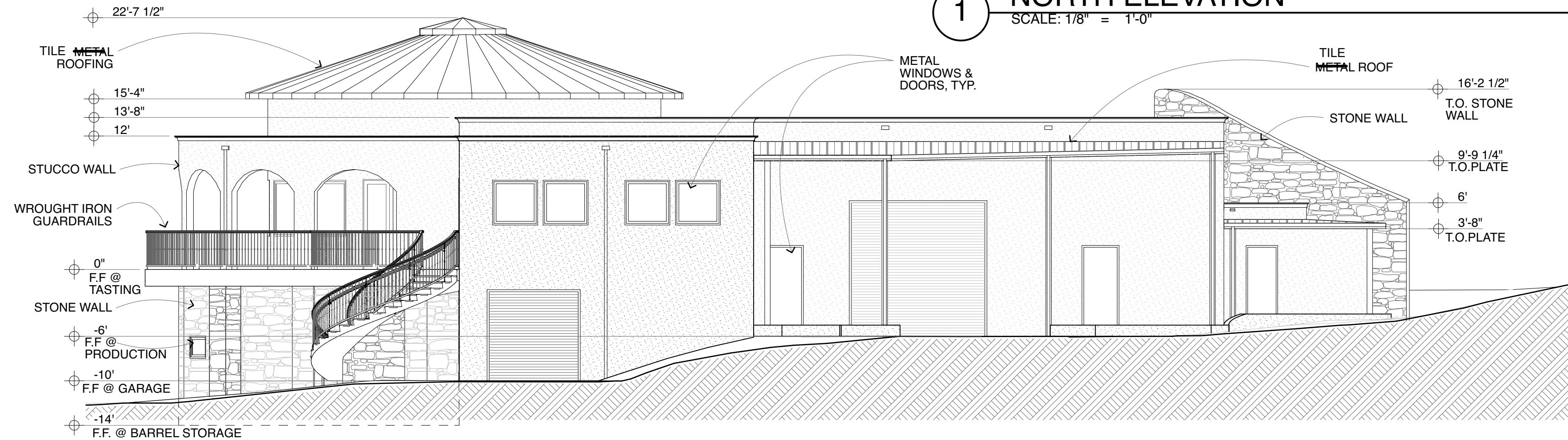
UP.3

HALL & BARTLEY  
ARCHITECTURE AND PLANNING  
P.O. BOX 690, SANTA ROSA, CALIFORNIA 95402, (707) 544-1642





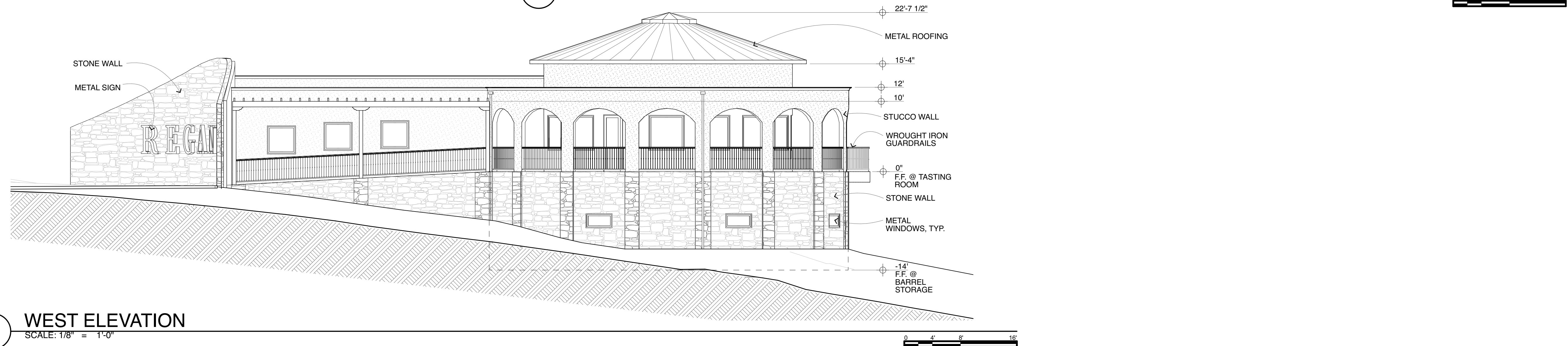
1 NORTH ELEVATION



2 EAST ELEVATION

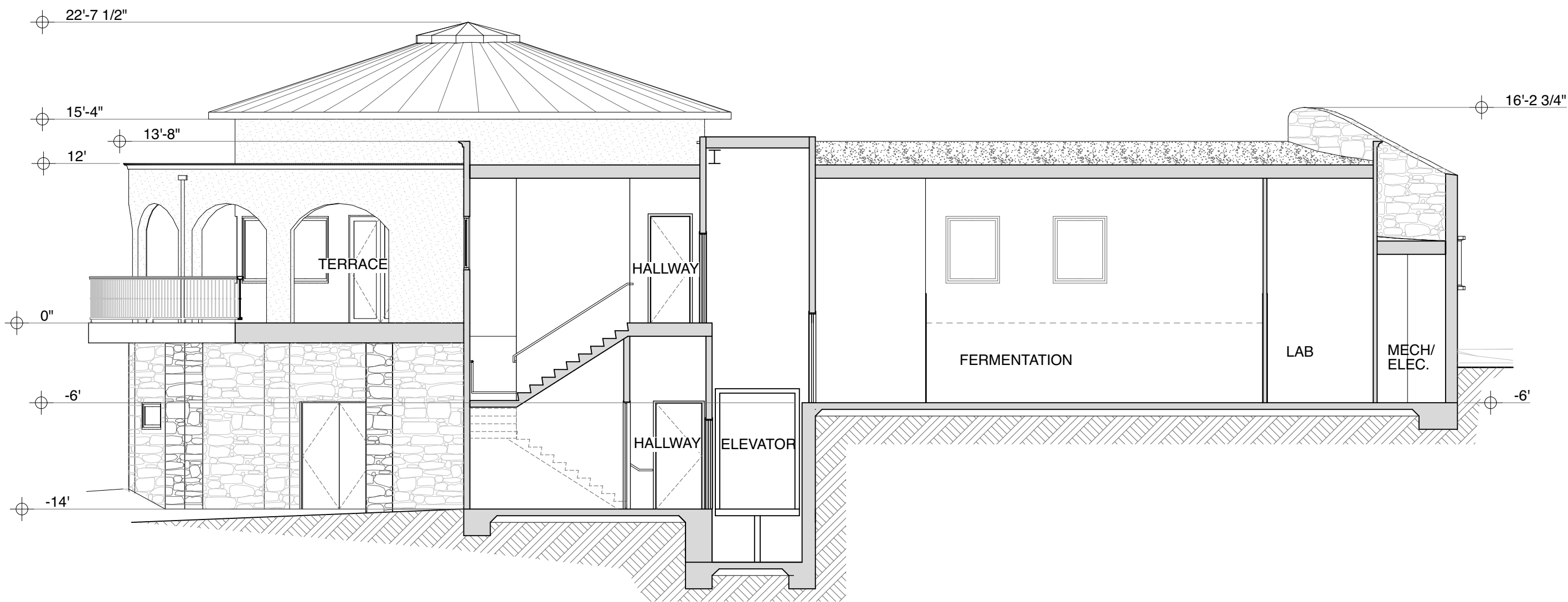


3 SOUTH ELEVATION



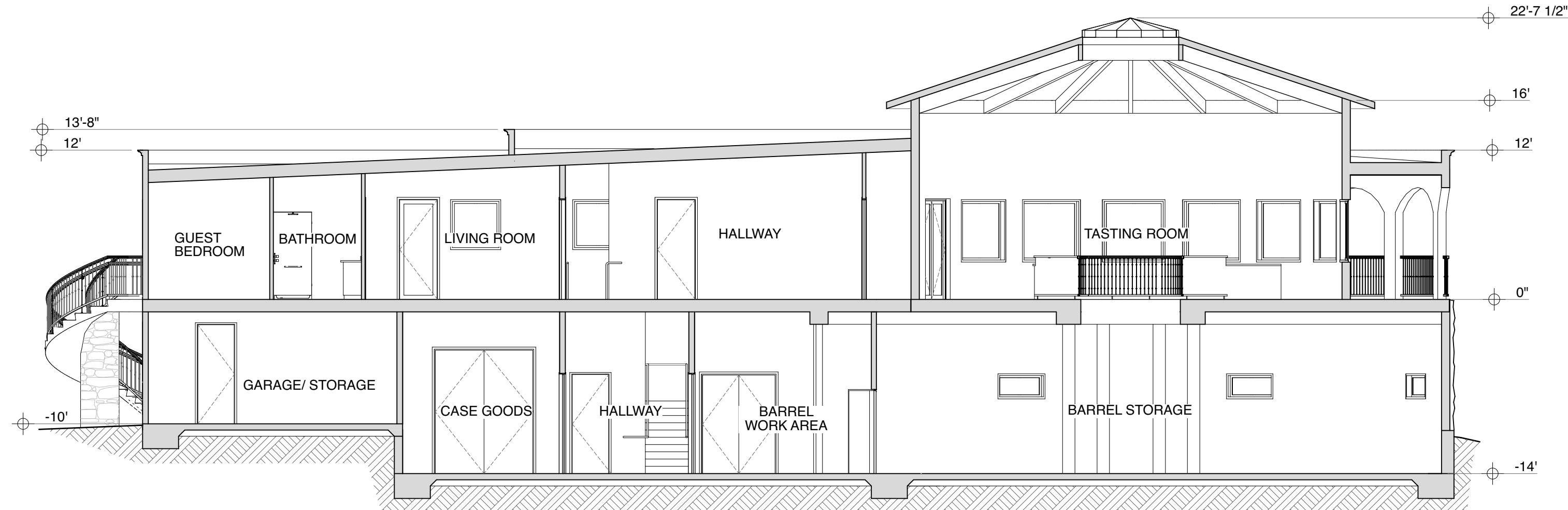
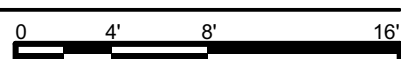
4 WEST ELEVATION





1 CROSS SECTION

SCALE: 1/8" = 1'-0"



2 CROSS SECTION

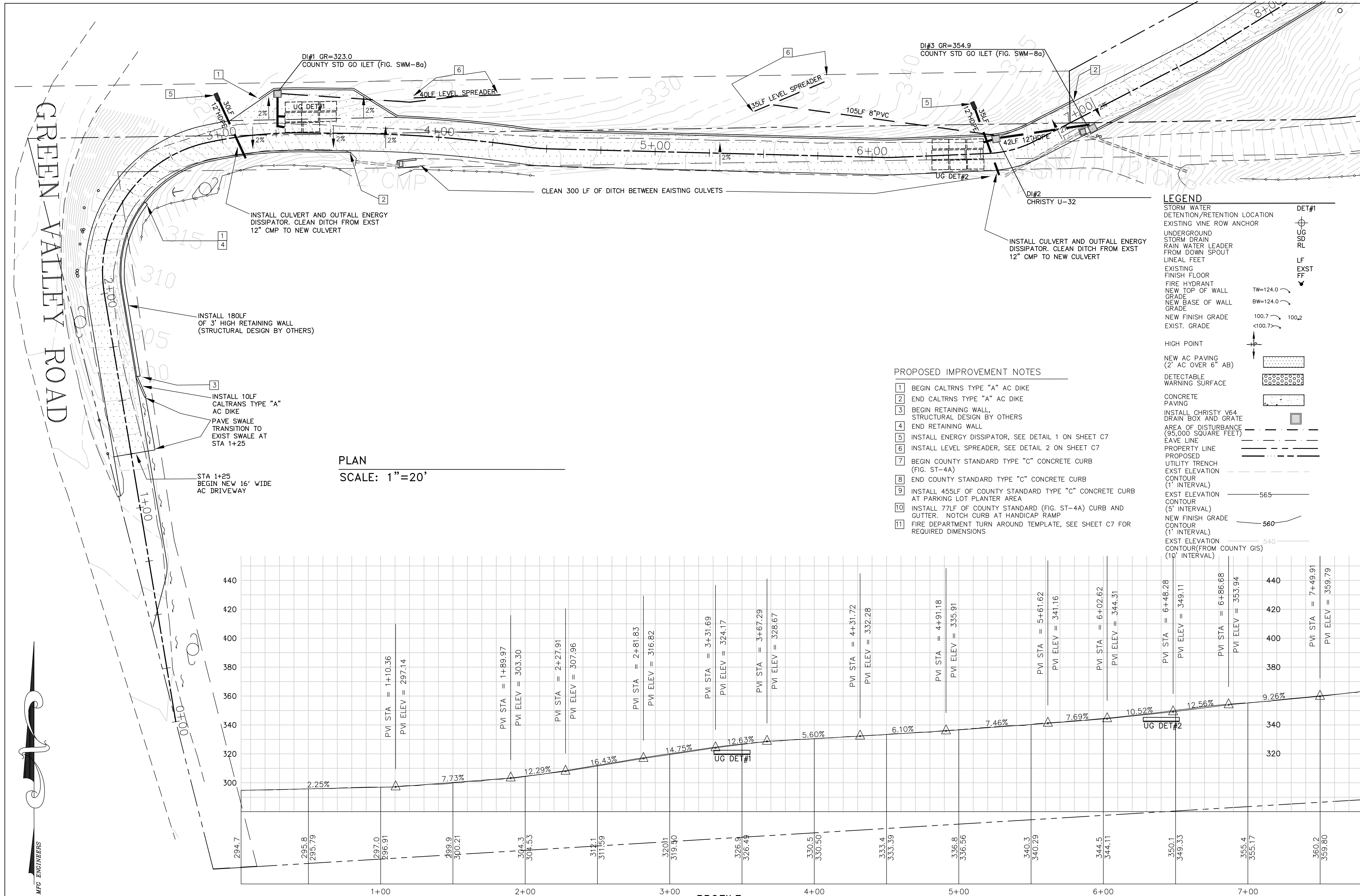
SCALE: 1/8" = 1'-0"



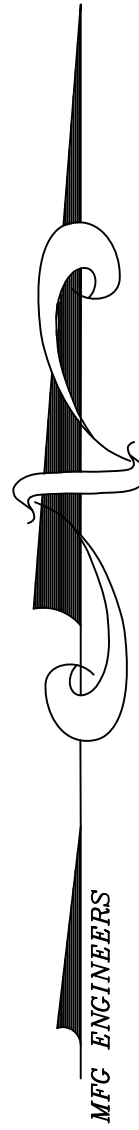








GREEN VALLEY ROAD



PLAN  
SCALE: 1"=20'

PROFILE  
SCALE: 1"=30' H&V

- PROPOSED IMPROVEMENT NOTES
- 1 BEGIN CALTRANS TYPE "A" AC DIKE
  - 2 END CALTRANS TYPE "A" AC DIKE
  - 3 BEGIN RETAINING WALL, STRUCTURAL DESIGN BY OTHERS
  - 4 END RETAINING WALL
  - 5 INSTALL ENERGY DISSIPATOR, SEE DETAIL 1 ON SHEET C7
  - 6 INSTALL LEVEL SPREADER, SEE DETAIL 2 ON SHEET C7
  - 7 BEGIN COUNTY STANDARD TYPE "C" CONCRETE CURB (FIG. ST-4A)
  - 8 END COUNTY STANDARD TYPE "C" CONCRETE CURB
  - 9 INSTALL 455LF OF COUNTY STANDARD TYPE "C" CONCRETE CURB AT PARKING LOT PLANTER AREA
  - 10 INSTALL 77LF OF COUNTY STANDARD (FIG. ST-4A) CURB AND GUTTER. NOTCH CURB AT HANDICAP RAMP
  - 11 FIRE DEPARTMENT TURN AROUND TEMPLATE, SEE SHEET C7 FOR REQUIRED DIMENSIONS

LEGEND

STORM WATER DETENTION/RETENTION LOCATION

EXISTING VINE ROW ANCHOR

UNDERGROUND STORM DRAIN

RAIN WATER LEADER FROM DOWN SPOUT

LINEAL FEET

EXISTING FINISH FLOOR

FIRE HYDRANT

NEW TOP OF WALL

GRADE

NEW BASE OF WALL

GRADE

NEW FINISH GRADE

EXIST. GRADE

HIGH POINT

NEW AC PAVING (2' AC OVER 6" AB)

DETECTABLE WARNING SURFACE

CONCRETE PAVING

INSTALL CHRISTY V64 DRAIN BOX AND GRATE

AREA OF DISTURBANCE (95,000 SQUARE FEET)

EAVE LINE

PROPOSED UTILITY TRENCH

EXIST ELEVATION CONTOUR (1' INTERVAL)

EXIST ELEVATION CONTOUR (5' INTERVAL)

NEW FINISH GRADE CONTOUR (1' INTERVAL)

EXIST ELEVATION CONTOUR (FROM COUNTY GIS) (10' INTERVAL)

DET#1

UG SD RL

LF EXST FF

TW=124.0

BW=124.0

100.7

100.2

565

560

540

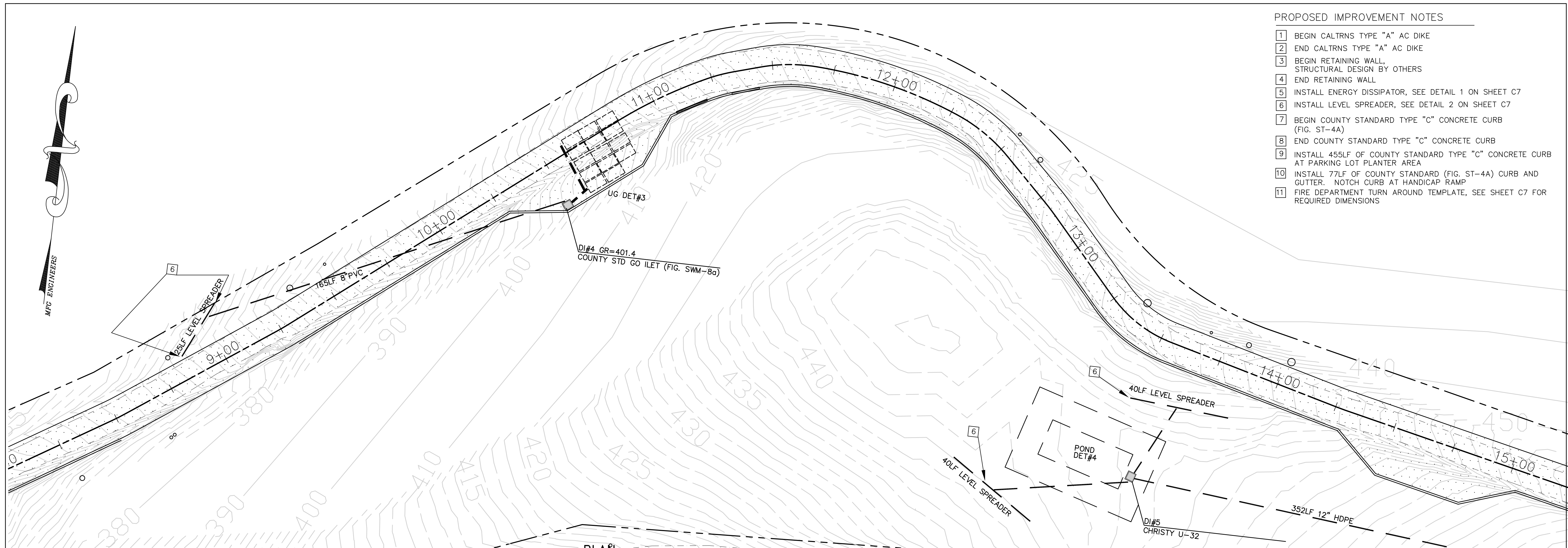
FOR REDUCED PLANS  
ORIGINAL SCALE IN INCHES

PRELIMINARY—NOT FOR CONSTRUCTION

SHEET NAME: DRAWING NAME:

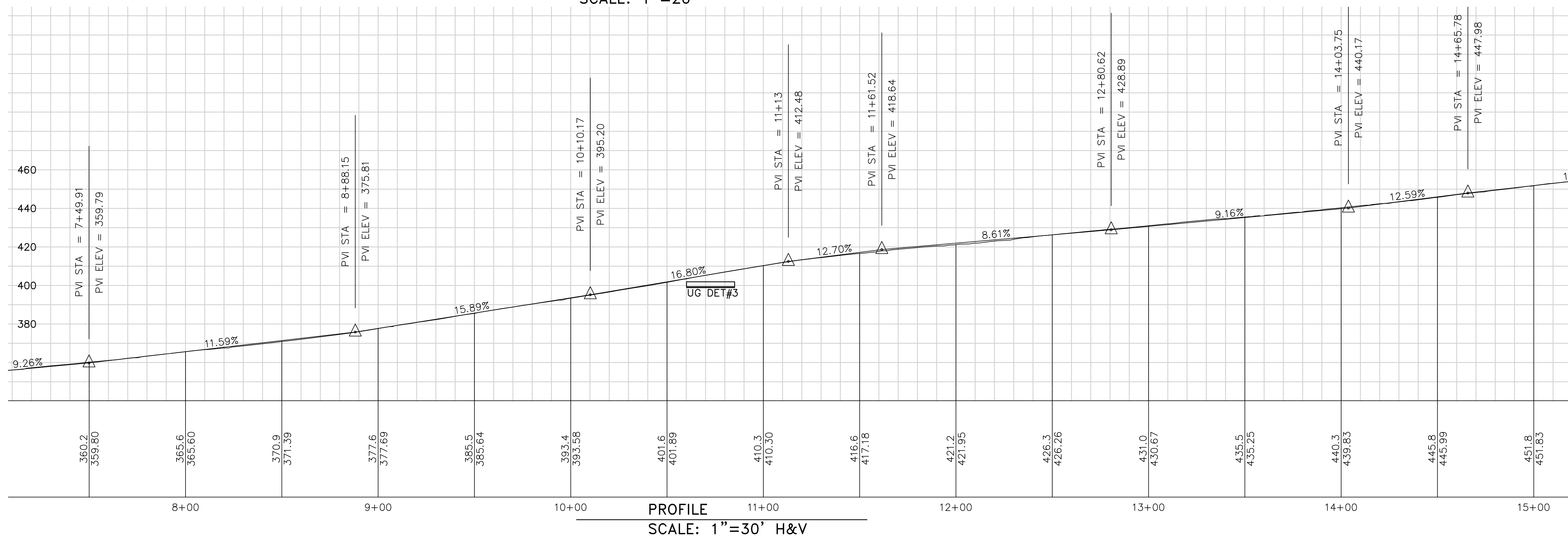
BY		REVISION		DATE	
11/25/20					
LAND SURVEYOR					
MICHAEL L. GORRINE					
No. 1874					
Exp. 12/31/28					
STATE OF CALIF.					
REGISTERED PROFESSIONAL ENGINEER					
MICHAEL L. GORRINE					
No. 1874					
Exp. 12/31/28					
STATE OF CALIF.					
PROJECT ENGINEER					
MFG Engineers, Inc					
PO BOX 1914					
APTOS, CA. 95001					
(831) 763-1661					
CEL (831) 601-9519					
APN 109-061-38					
REGAN VINEYARDS WINERY					
GRADING & DRAINAGE PLAN					
DRAWN: MFG					
CHECKED: MFG					
DATE: 10/2020					
SCALE: NOTED					
JOB NO.					
SHEET					
C2 of 14					





- PROPOSED IMPROVEMENT NOTES
- 1 BEGIN CALTRANS TYPE "A" AC DIKE
  - 2 END CALTRANS TYPE "A" AC DIKE
  - 3 BEGIN RETAINING WALL, STRUCTURAL DESIGN BY OTHERS
  - 4 END RETAINING WALL
  - 5 INSTALL ENERGY DISSIPATOR, SEE DETAIL 1 ON SHEET C7
  - 6 INSTALL LEVEL SPREADER, SEE DETAIL 2 ON SHEET C7
  - 7 BEGIN COUNTY STANDARD TYPE "C" CONCRETE CURB (FIG. ST-4A)
  - 8 END COUNTY STANDARD TYPE "C" CONCRETE CURB
  - 9 INSTALL 455LF OF COUNTY STANDARD TYPE "C" CONCRETE CURB AT PARKING LOT PLANTER AREA
  - 10 INSTALL 77LF OF COUNTY STANDARD (FIG. ST-4A) CURB AND GUTTER. NOTCH CURB AT HANDICAP RAMP
  - 11 FIRE DEPARTMENT TURN AROUND TEMPLATE, SEE SHEET C7 FOR REQUIRED DIMENSIONS

PLAN  
SCALE: 1"=20'



PROFILE  
SCALE: 1"=30' H&V

PRELIMINARY-NOT FOR CONSTRUCTION

FOR REDUCED PLANS  
ORIGINAL SCALE IN INCHES



SHEET NAME:

DRAWING NAME:

BY	REVISION	DATE	PROJECT ENGINEER	APN 109-061-38	DRAWN: MFG
			MFG Engineers, Inc	REGAN VINEYARDS WINERY	CHECKED: MFG
			PO BOX 1914	GRADING & DRAINAGE PLAN	DATE: 10/2020
			APTOS, CA. 95001		SCALE: NOTED
			(831) 763-1661		JOB NO.
			CEL (831) 601-9519		SHEET
					C3 of 14

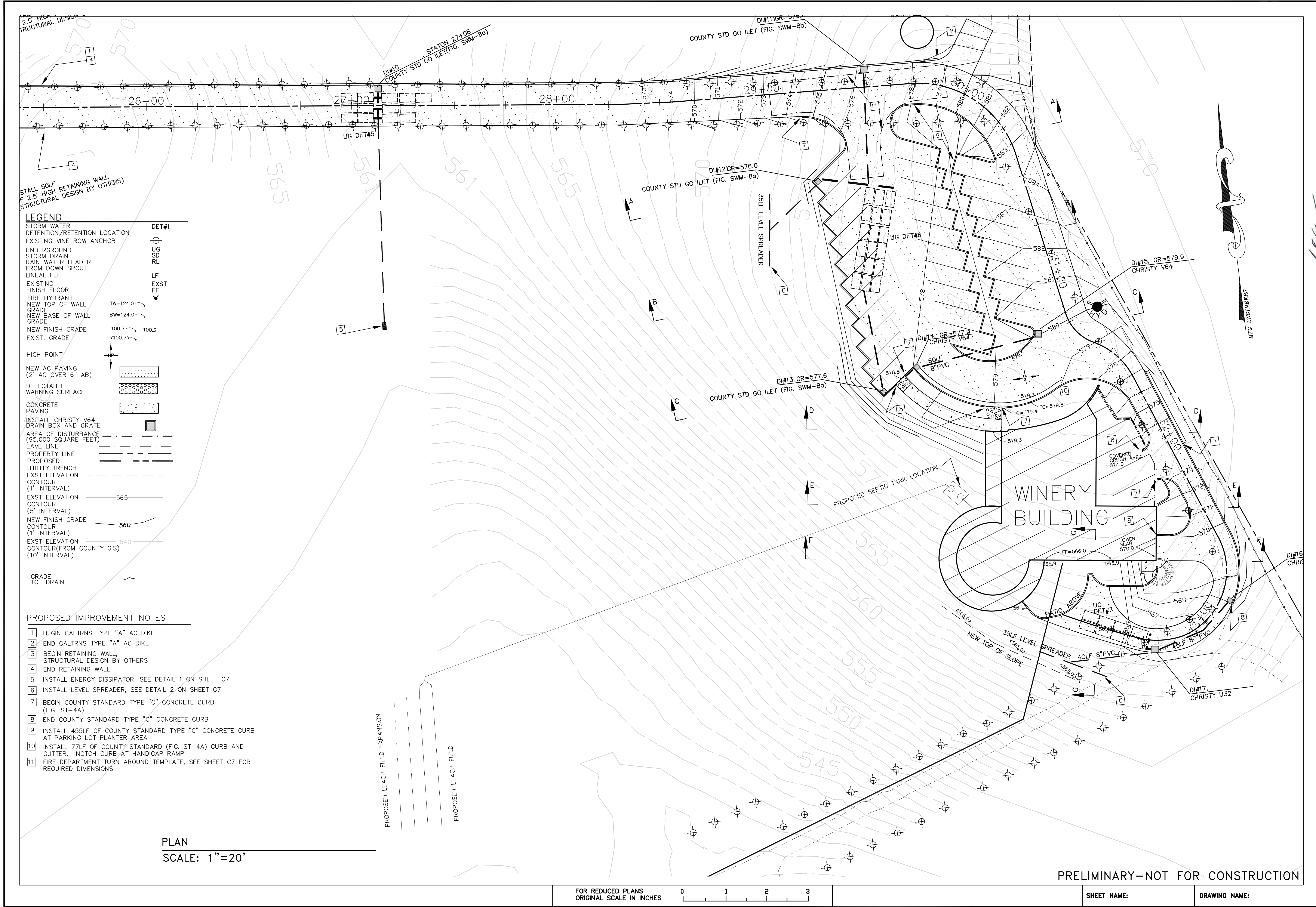








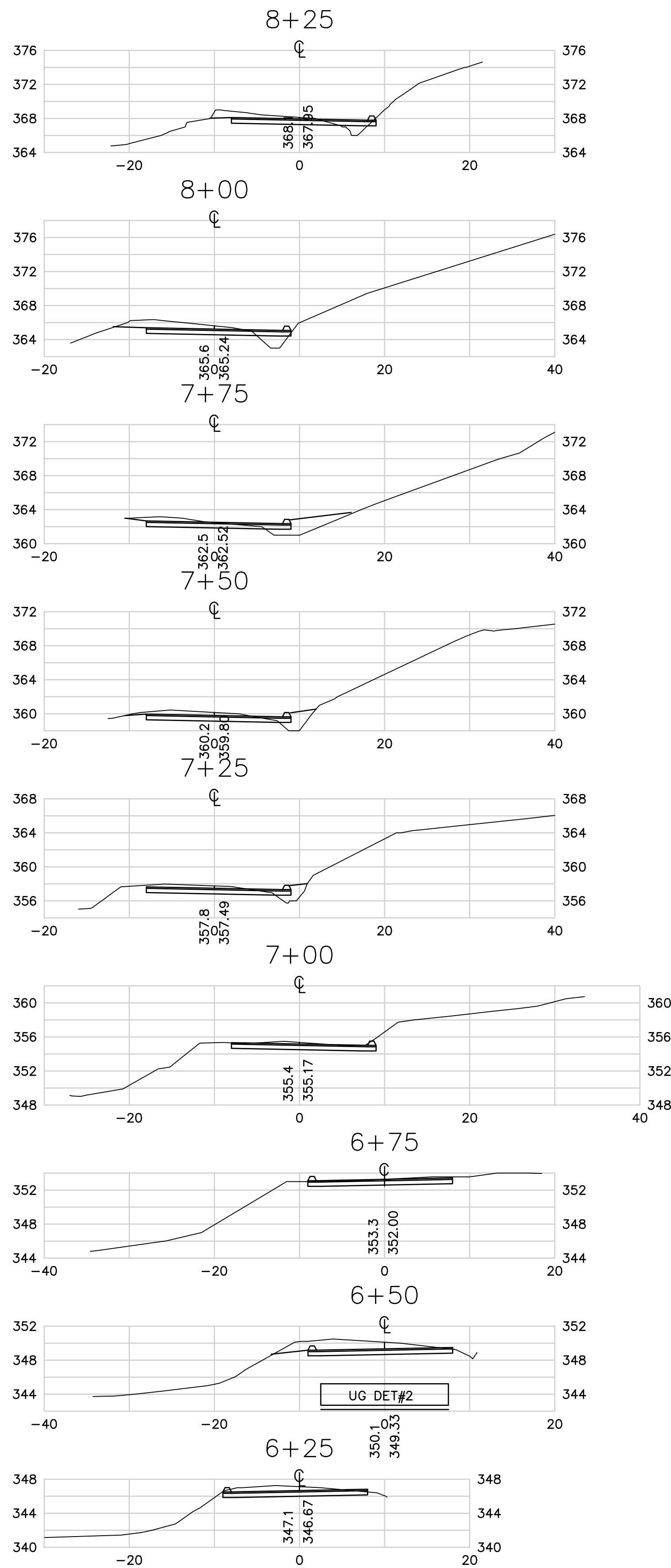
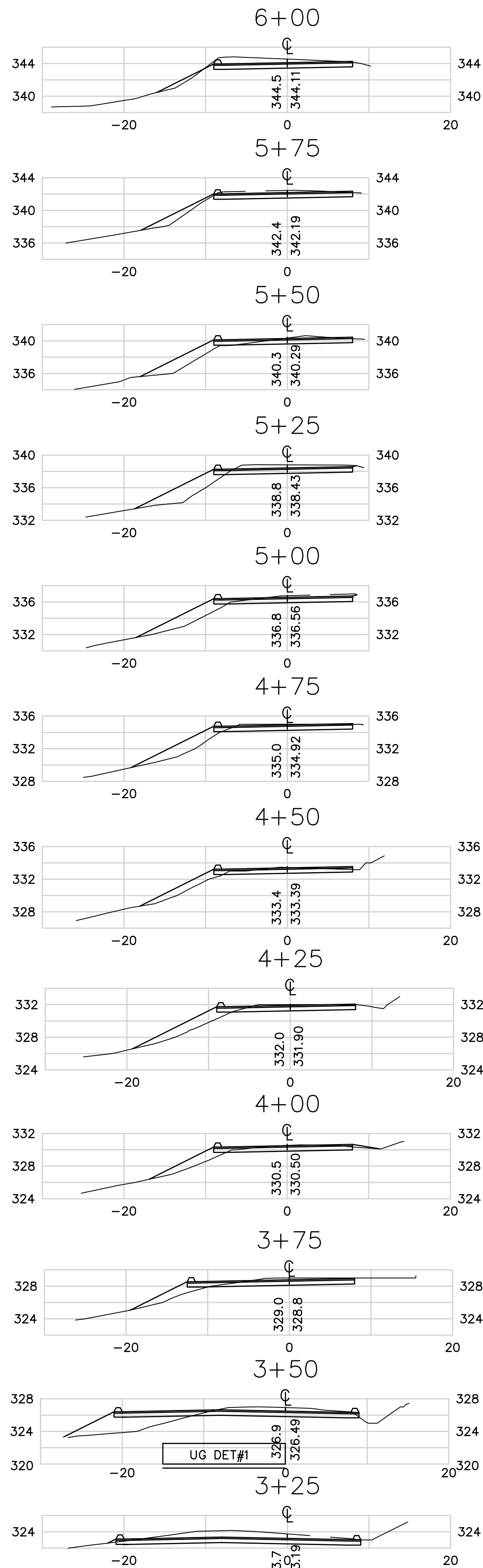
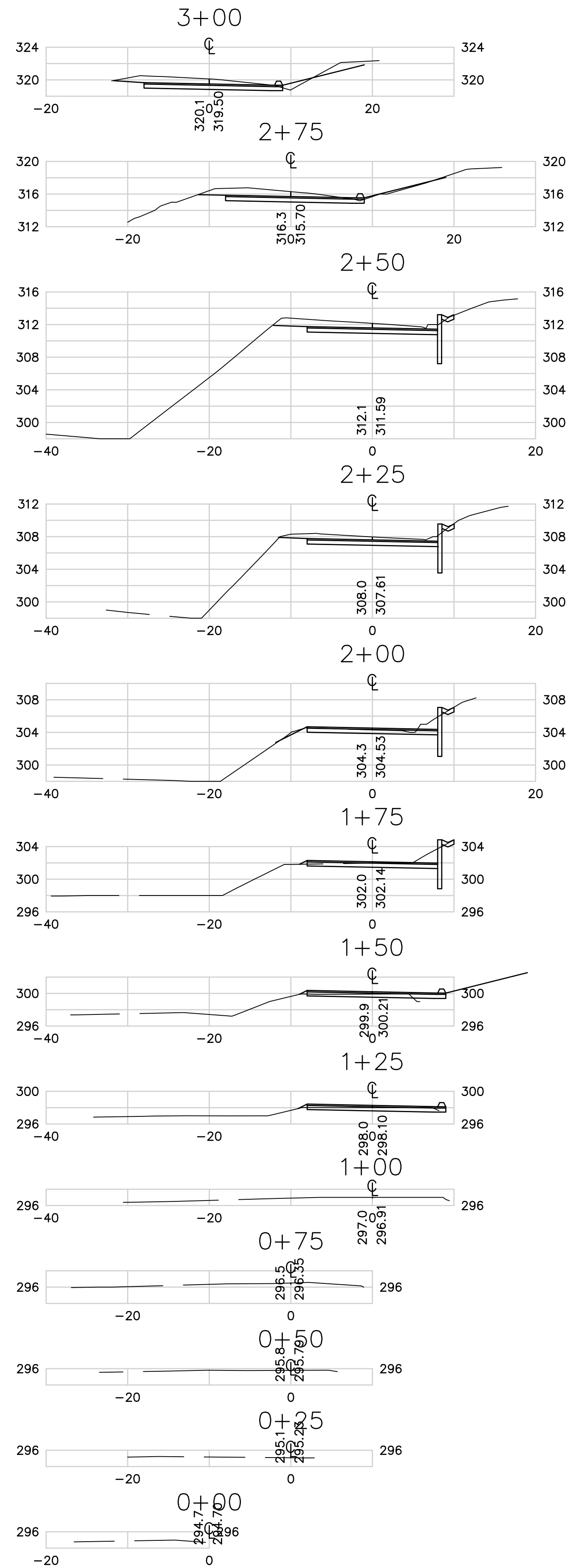






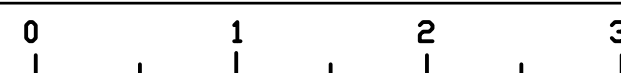






PRELIMINARY—NOT FOR CONSTRUCTION

FOR REDUCED PLANS  
ORIGINAL SCALE IN INCHES

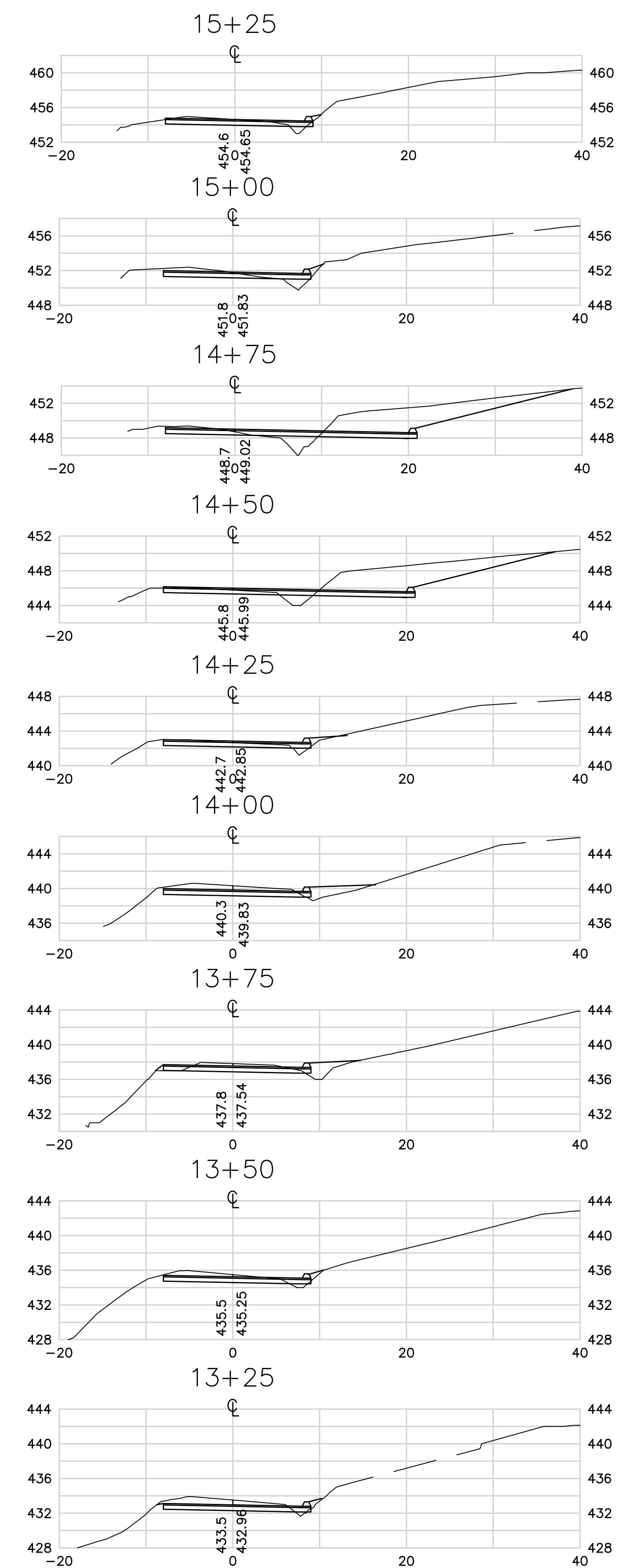
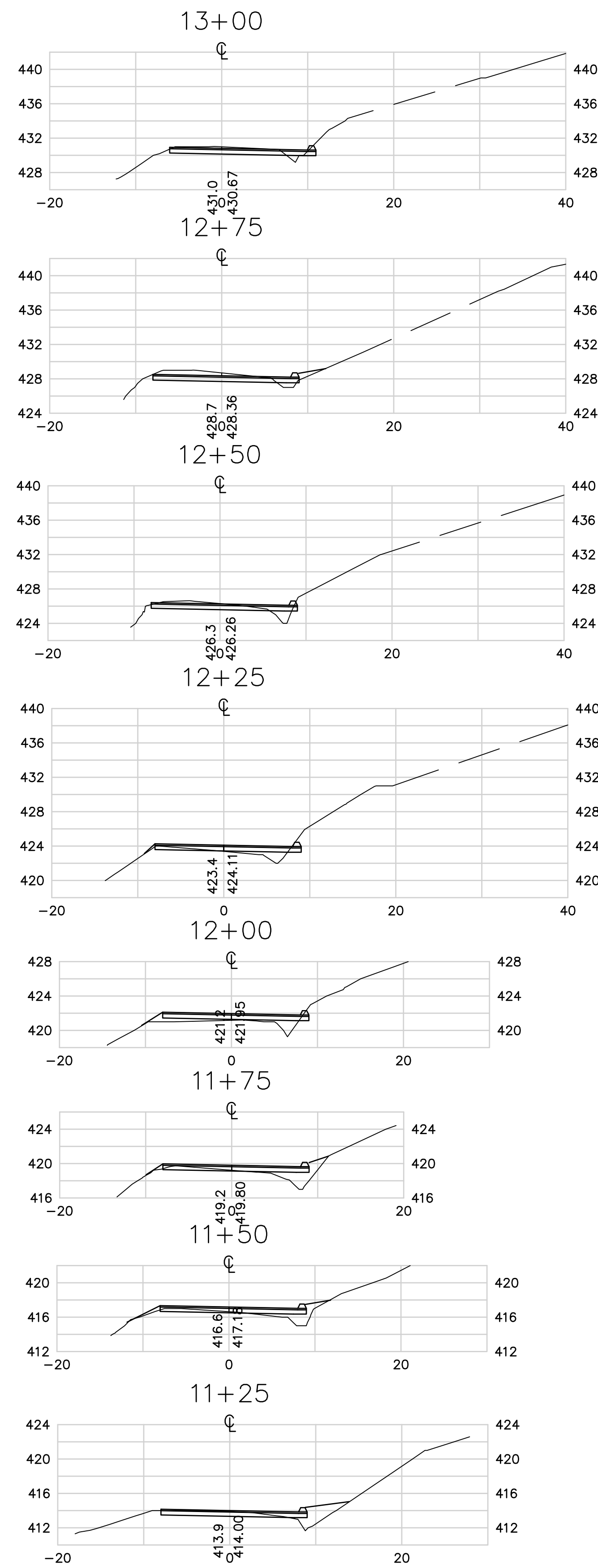


SHEET NAME:

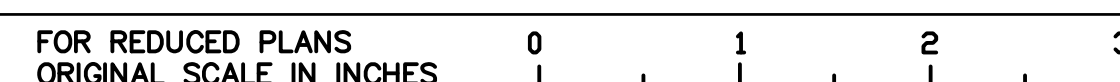
DRAWING NAME:

BY		REVISION		DATE	
PROJECT ENGINEER	APN 109-061-38	PROJECT ENGINEER	MFG Engineers, Inc PO BOX 1914 APTOS, CA. 95001 (831) 763-1661 CEL (831) 601-9519	REGISTERED PROFESSIONAL ENGINEER MICHAEL E. GOODINE No. 45754 Exp. 12/31/21 CIVIL STATE OF CALIF.	REGISTERED PROFESSIONAL LAND SURVEYOR MICHAEL E. GOODINE No. 12874 Exp. 12/31/21 CIVIL STATE OF CALIF.
DRAWN: MFG					
CHECKED: MFG					
DATE: 10/2020					
SCALE: 1"=30'					
JOB NO.					
SHEET					
C8 of 14					



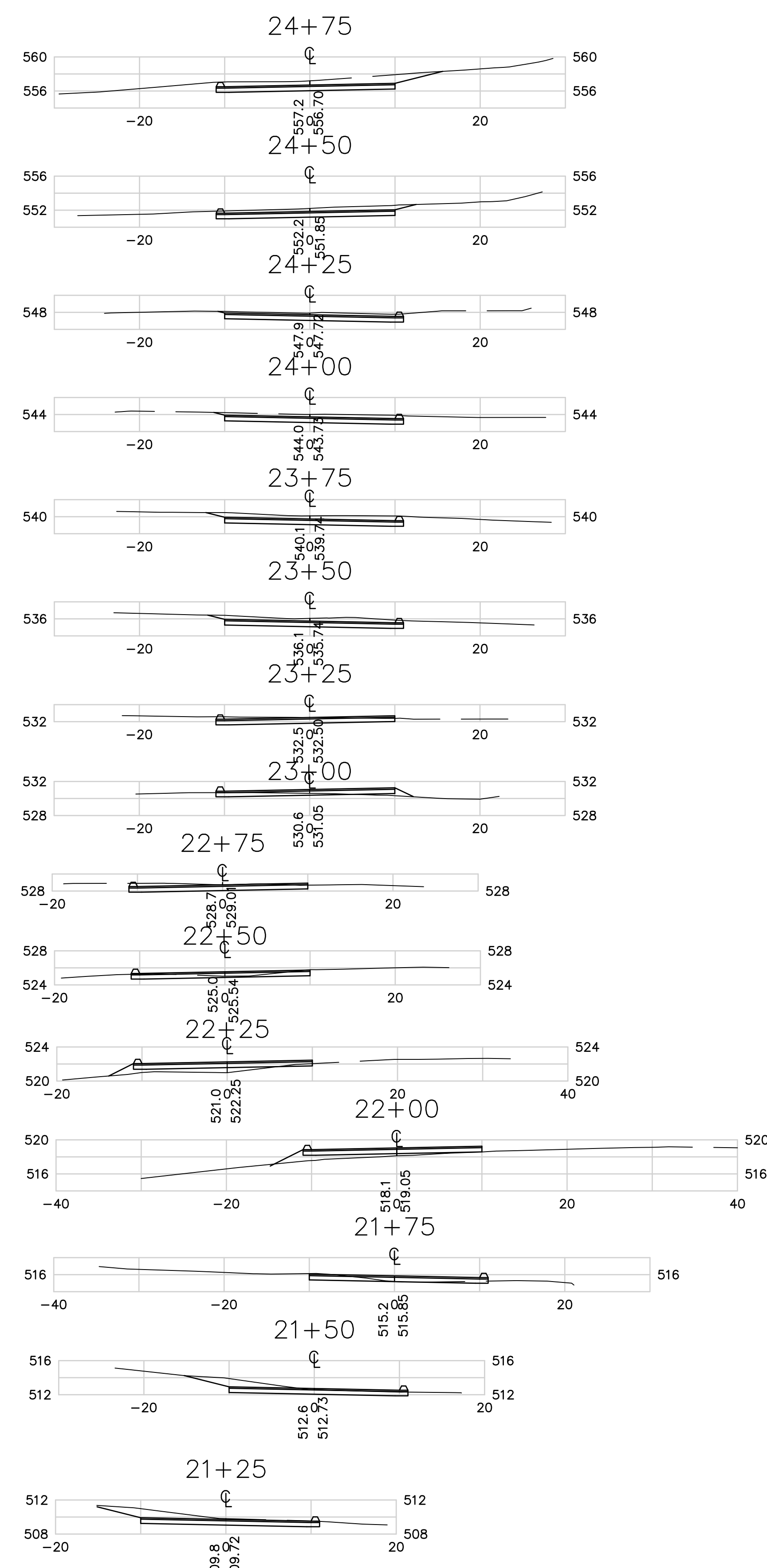
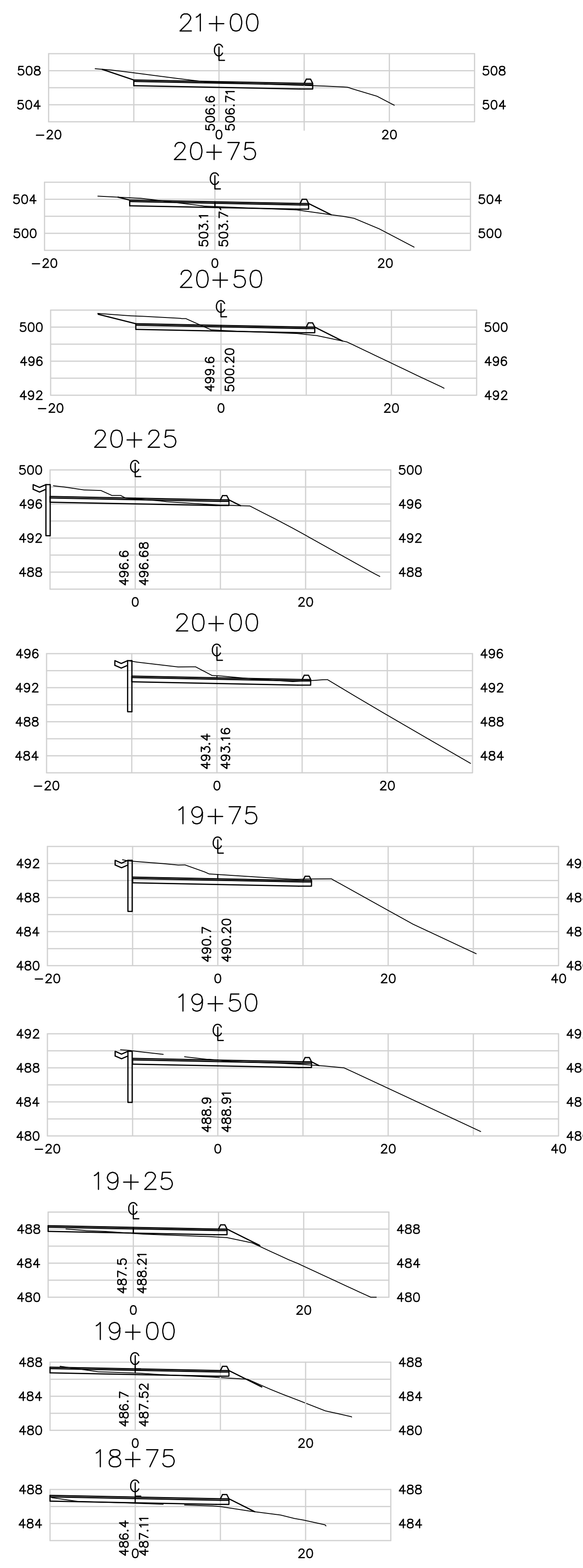
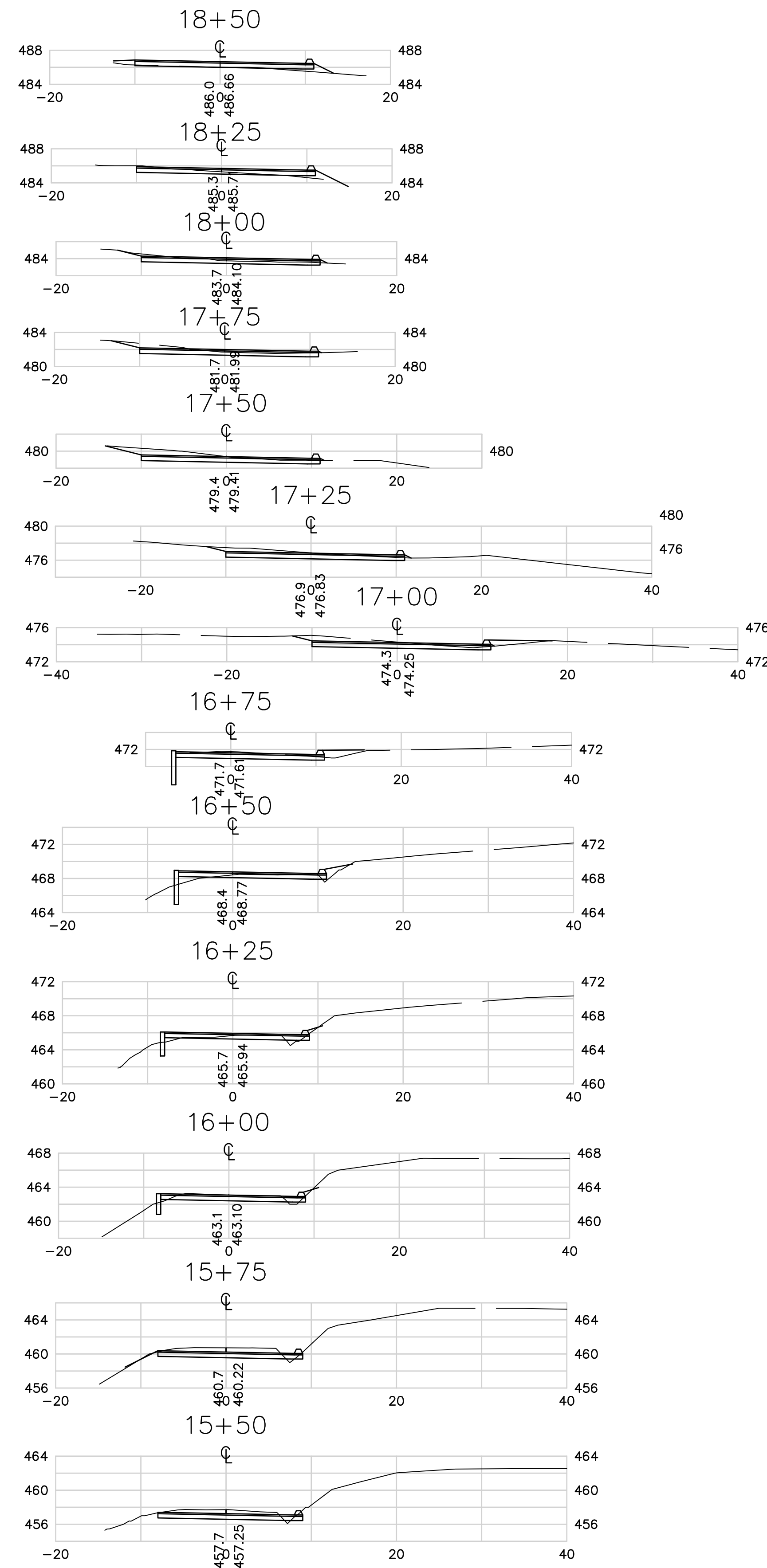


<b>SHEET NAME:</b>	<b>DRAWING NAME:</b>
--------------------	----------------------

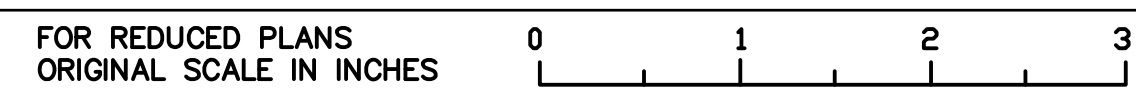


C9 OF 14	SHEET	JOB NO.	SCALE: 1"=30'	DATE: 10/2020	CHECKED: MFG	DRAWN: MFG	APN 109-061-38		PROJECT ENGINEER		DATE		REVISION		BY
			REGAN VINEYARDS WINERY GRADING & DRAINAGE PLAN		MFG Engineers, Inc PO BOX 1914 APTOS, CA. 95001 (831) 763-1661 CEL (831) 601-9519		11/25/20								





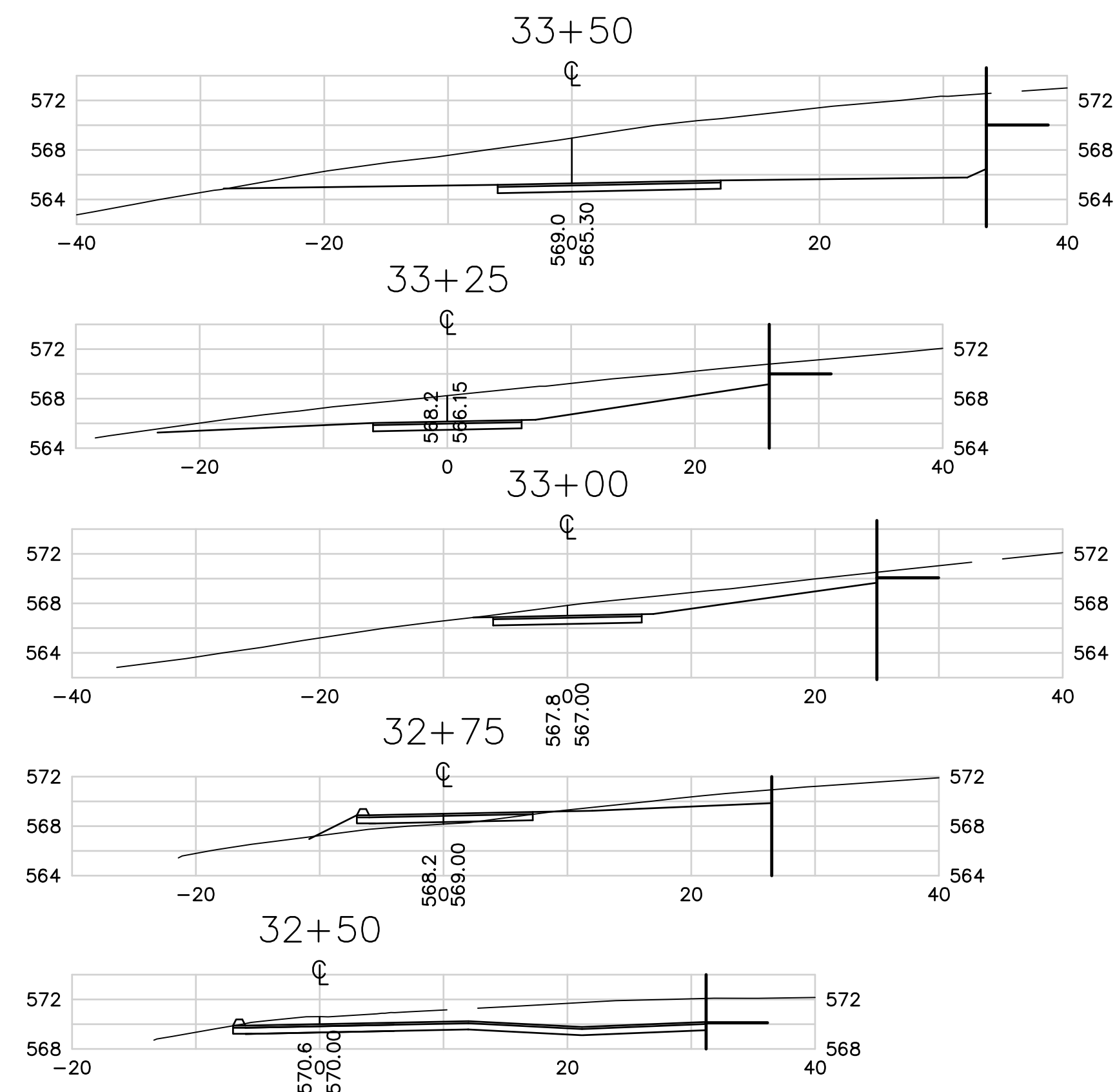
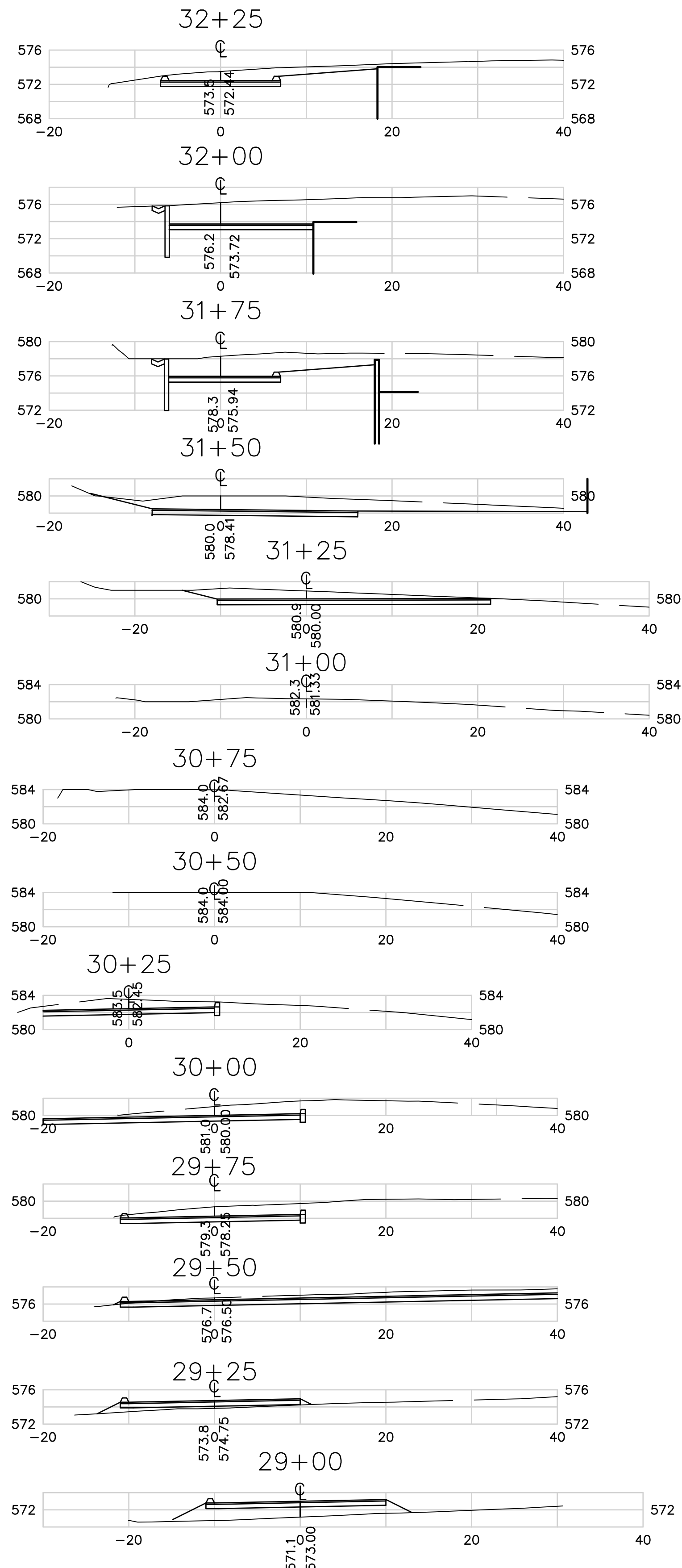
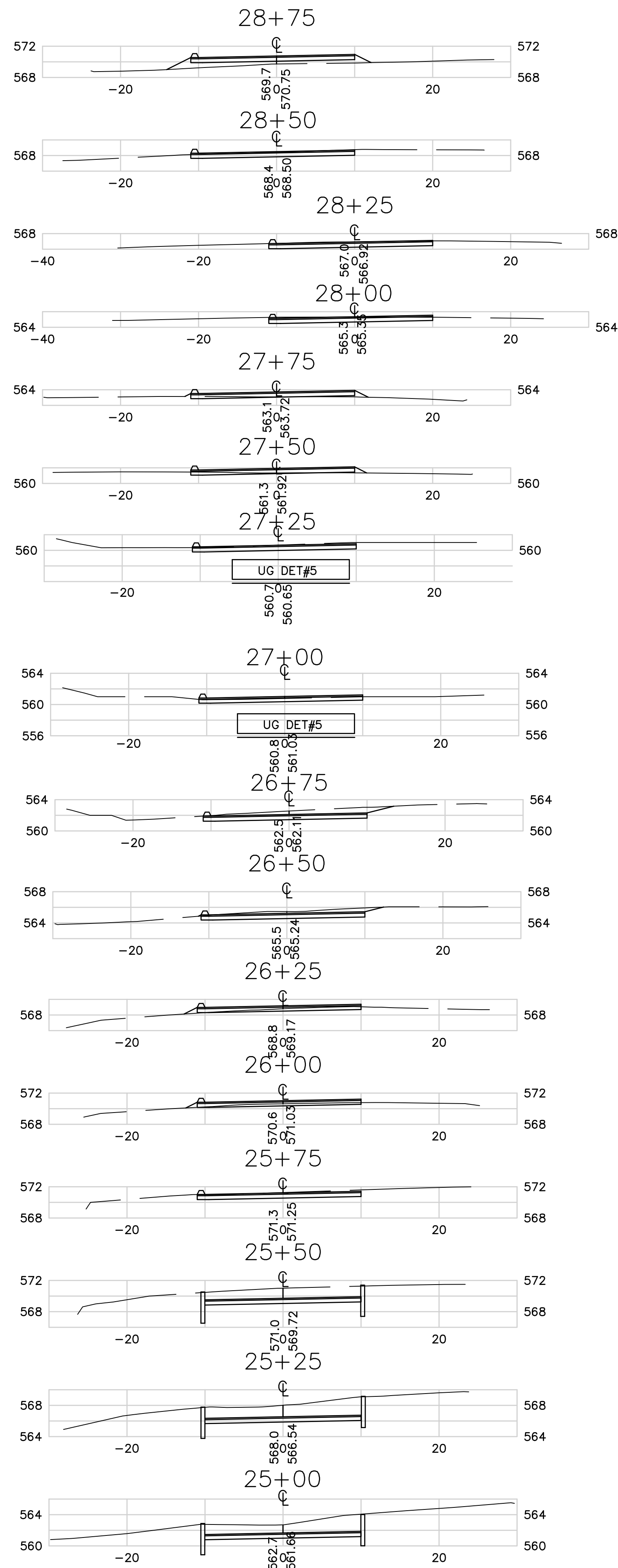
PRELIMINARY—NOT FOR CONSTRUCTION



SHEET NAME: DRAWING NAME:

BY	REVISION	DATE	PROJECT ENGINEER	APN 109-061-38	DRAWN: MFG
			MFG Engineers, Inc	REGAN VINEYARDS WINERY	CHECKED: MFG
			PO BOX 1914	GRADING & DRAINAGE PLAN	DATE: 10/2020
			APTOS, CA. 95001		SCALE: 1"=30'
			(831) 763-1661		JOB NO.
			CEL (831) 601-9519		C SHEET
					10 OF 14





PRELIMINARY—NOT FOR CONSTRUCTION

FOR REDUCED PLANS  
ORIGINAL SCALE IN INCHES



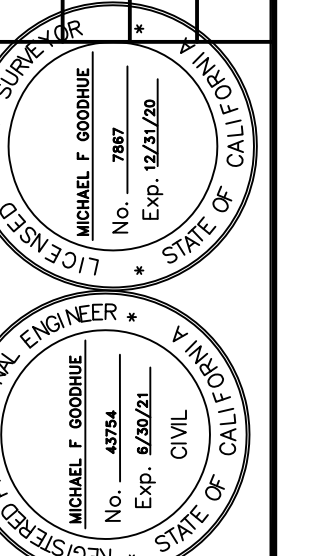
SHEET NAME: DRAWING NAME:

APN 109-061-38  
REGAN VINEYARDS WINERY  
GRADING & DRAINAGE PLAN

DRAWN: MFG  
CHECKED: MFG  
DATE: 10/2020  
SCALE: 1"=30'  
JOB NO.

C SHEET  
11 of 14

PROJECT ENGINEER  
MFG Engineers, Inc  
PO BOX 1914  
APTOS, CA. 95001  
(831) 763-1661  
CEL (831) 601-9519

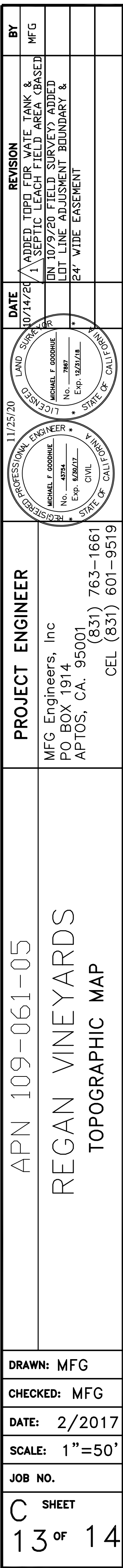


DATE	REVISION	BY







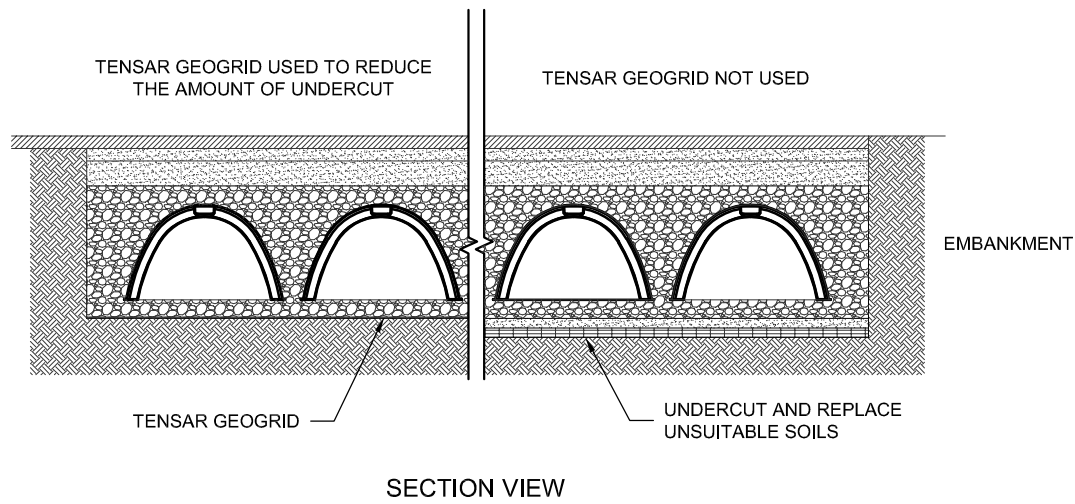




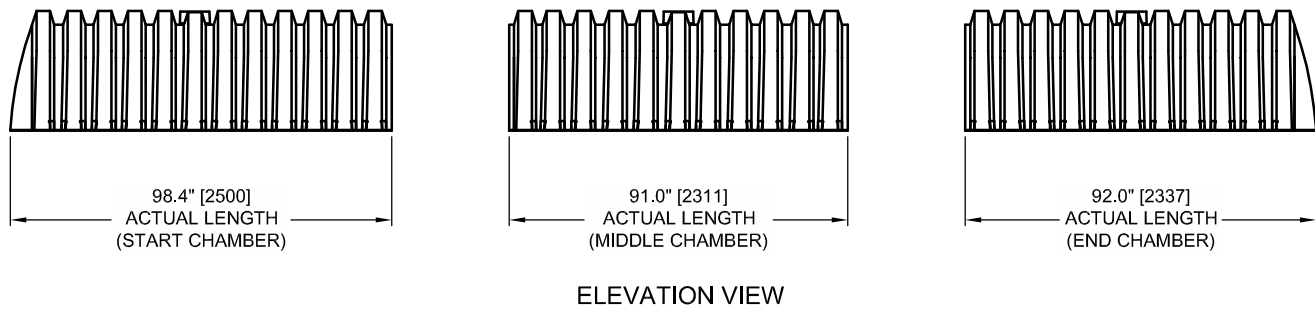




I:\COMMON\CAD\DETENTION\07 CHAMBERMAXX\40 STANDARD DRAWINGS\DWG\CHAMBERMAXX INSTALLATION DETAILS.DWG 10/26/2017 9:37 AM



**TYPICAL FOUNDATION DETAIL**



**TYPICAL CHAMBER ROW DETAIL**

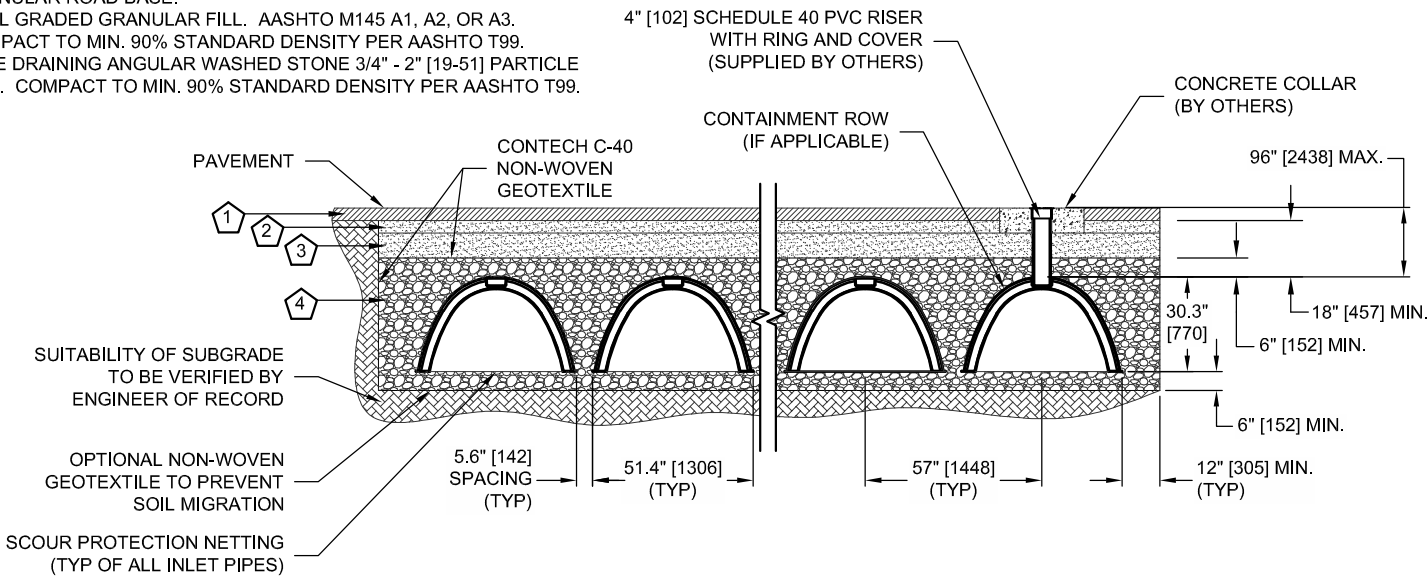
**BACKFILL MATERIAL**  
THE CHAMBER SYSTEM INCORPORATES TWO TYPES OF BACKFILL MATERIAL

FREE DRAINING ANGULAR WASHED STONE 3/4 TO 2-INCH [19 TO 51] PARTICLE SIZE COMPACTED TO 90% AASHTO T99 IS USED AROUND THE CHAMBERS. THIS MATERIAL IS USED AROUND THE CHAMBERS AND WITHIN A MINIMUM OF 6-INCHES (152 MM) BELOW AND 6-INCHES [152] ABOVE THE CHAMBERS. THE REMAINING SPACE SHOULD BE FILLED WITH AN ANGULAR, WELL-GRADED GRANULAR FILL MEETING THE REQUIREMENTS OF AASHTO M145 A1, A2 OR A3, COMPACTED TO 95% AASHTO T99.

CONTECH C-40 NON-WOVEN GEOTEXTILE SHOULD BE USED BETWEEN THE TWO LAYERS OF BACKFILL MATERIAL. SEE DETAIL BELOW.

**KEY**

1. RIGID OR FLEXIBLE PAVEMENT.
2. GRANULAR ROAD BASE.
3. WELL GRADED GRANULAR FILL. AASHTO M145 A1, A2, OR A3. COMPACT TO MIN. 90% STANDARD DENSITY PER AASHTO T99.
4. FREE DRAINING ANGULAR WASHED STONE 3/4" - 2" [19-51] PARTICLE SIZE. COMPACT TO MIN. 90% STANDARD DENSITY PER AASHTO T99.



**TYPICAL SECTION VIEW**  
(H20/H25 LIVE LOAD)  
PER AASHTO 12

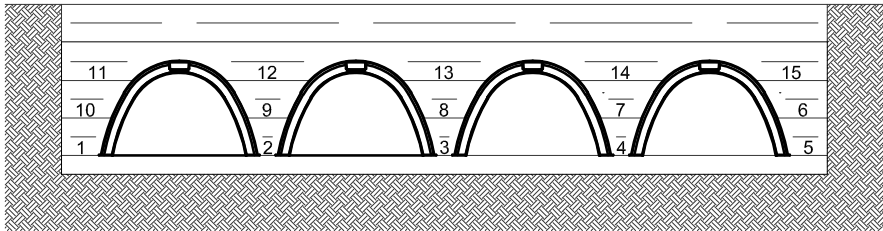


I:\COMMON\CAD\DETENTION\07 CHAMBERMAXX\40 STANDARD DRAWINGS\DWG\CHAMBERMAXX INSTALLATION DETAILS.DWG 10/26/2017 9:37 AM

BACKFILL PLACEMENT

PLACE BACKFILL MATERIAL IN 6 TO 8-INCH [152 TO 203] LOOSE LIFTS AND COMPACT. USE MECHANICAL HAND TAMPERS OR APPROVED COMPACTING EQUIPMENT TO COMPACT ALL BACKFILL AND EMBANKMENT IMMEDIATELY ADJACENT TO EACH SIDE OF THE INSTALLATION AND OVER TOP OF THE INSTALLATION TO A MINIMUM DEPTH OF 18-INCHES [457]. PLACE BACKFILL SO THERE IS NO MORE THAN A TWO LIFT DIFFERENTIAL BETWEEN ANY OF THE CHAMBERS AT ANYTIME DURING THE BACKFILLING PROCESS. ADVANCE THE BACKFILL ALONG THE LENGTH OF THE CHAMBER SYSTEM AT THE SAME RATE TO AVOID DIFFERENTIAL LOADING ON THE CHAMBERS. BACKFILLING AT DIFFERENTIAL HEIGHTS FROM ONE SIDE OF THE CHAMBER TO THE OTHER IN EXCESS OF 16" [407] CAN CAUSE CHAMBER DISTORTION OR POTENTIAL COLLAPSE. ADVANCE BALANCED LIFTS ACROSS THE WIDTH OF THE SYSTEM EVENLY ALONG THE LENGTH OF THE CHAMBERS AS YOU BACKFILL. SEE TYPICAL BACKFILL SEQUENCE.

USE ONLY LIGHTWEIGHT TRACKED DOZERS (D-4 DOZER OR SMALLER) NOT EXCEEDING 1,100 LBS/SF [0.54 kg/cm<sup>2</sup>] GROUND PRESSURE TO SPREAD BACKFILL LIFTS OVER TOP OF THE CHAMBER SYSTEM. MAINTAIN A MINIMUM OF 6-INCH [152] COVER ON TOP OF CHAMBERS FOR THE INITIAL LIFTS. FOR LARGE SYSTEMS USE CONVEYOR SYSTEMS, BACKHOES WITH LONG REACHES OR DRAGLINES WITH STONE BUCKETS TO PLACE BACKFILL. ONCE MINIMUM COVER FOR CONSTRUCTION LOADING ACROSS THE ENTIRE WIDTH OF THE SYSTEM IS REACHED, ADVANCE THE EQUIPMENT TO THE END OF THE RECENTLY PLACED FILL, AND BEGIN THE SEQUENCE AGAIN UNTIL THE SYSTEM IS COMPLETELY BACKFILLED. THIS TYPE OF CONSTRUCTION SEQUENCE PROVIDES ROOM FOR STOCKPILED BACKFILL DIRECTLY BEHIND THE BACKHOE, AS WELL AS THE MOVEMENT OF CONSTRUCTION TRAFFIC. MATERIAL STOCKPILES ON TOP OF THE BACKFILLED CHAMBER SYSTEM SHOULD BE LIMITED TO SIX FEET IN TOTAL HEIGHT ABOVE THE STRUCTURE AND MUST PROVIDE BALANCED LOADING ACROSS ALL CHAMBERS. TO DETERMINE THE PROPER COVER OVER THE CHAMBERS TO ALLOW THE MOVEMENT OF CONSTRUCTION EQUIPMENT, CONTACT YOUR LOCAL CONTECH REPRESENTATIVE.



EMBANKMENT

TYPICAL BACKFILL SEQUENCE

CHAMBERMaxx™

PATENT PENDING

EQUIPMENT RESTRICTIONS DURING CHAMBERMAXX INSTALLATION

BACKFILL LEVEL (SEE TYP. SECTION VIEW ON SHEET 1)	ALLOWABLE CONSTRUCTION EQUIPMENT*
4 - BEDDING	NO RESTRICTIONS.
4 - BACKFILL TO TOP OF CHAMBERS	NO EQUIPMENT IS PERMITTED ON OR NEARBY THE CHAMBERS. CONVEYORS OR EXCAVATORS LOCATED SUCH THAT THEIR LOADS DO NOT INFLUENCE THE CHAMBERS SHOULD BE USED TO PLACE THE BACKFILL STONE. STONE SHOULD BE WORKED BETWEEN THE CHAMBERS BY HAND.
4 - BACKFILL OVER THE TOP OF THE CHAMBERS	NO WHEEL LOADS SHOULD BE APPLIED OVER THE SYSTEM. ONCE 6" [152] OF STONE HAS BEEN PLACED OVER THE CROWN OF THE CHAMBERS, LIGHTWEIGHT TRACKED DOZERS WITH A MAXIMUM GROUND PRESSURE OF 1,100 PSF ARE PERMITTED OVER THE STRUCTURE. DOZERS MUST SPREAD STONE WORKING IN A DIRECTION PARALLEL WITH THE CHAMBER ROWS; NOT WORKING ACROSS THE CHAMBER ROWS. ALSO, ONLY SMALL, WALK BEHIND COMPACTION EQUIPMENT CAN BE USED OVER THE CHAMBERS UNTIL A MINIMUM OF 12" [305] OF COVER IS OVER THE CHAMBERS.
2 OR 3 - SELECT FILL OVER THE CHAMBERS	ONCE 18" [457] OF COMPACTED MATERIAL IS OVER THE CHAMBERS, HIGHWAY VEHICLES WITH AXLE LOADS OF 32,000 POUNDS OR LESS CAN BE OPERATED OVER THE STRUCTURES. FRONT END LOADERS CAN BE OPERATED OVER THE STRUCTURES AS LONG AS THE MAXIMUM WHEEL LOAD DOES NOT EXCEED 16,000 POUNDS. COMPACTION EQUIPMENT CAN BE OPERATED OVER THE STRUCTURES AS LONG AS THE DYNAMIC FORCE FROM THE DRUM DOES NOT EXCEED 20,000 POUNDS AND THE GROSS VEHICLE WEIGHT DOES NOT EXCEED 12,000 POUNDS.
*ASK YOUR CONTECH REPRESENTATIVE IF YOU HAVE QUESTIONS ABOUT THE USE OF SPECIFIC PIECES OF CONSTRUCTION EQUIPMENT.	

NOTES

- 36" (900 MM) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR FULL DUMP TRUCK TRAVEL AND DUMPING.
- DURING PAVING OPERATIONS, DUMP TRUCK AXLE LOADS ON 18" (450 MM) OF COVER MAY BE NECESSARY. PRECAUTIONS SHOULD BE TAKEN TO AVOID RUTTING OF THE ROAD BASE LAYER, TO ENSURE THAT COMPACTION REQUIREMENTS HAVE BEEN MET, AND THAT A MINIMUM OF 18" (450 MM) OF COVER EXISTS OVER THE CHAMBERS. CONTACT CONTECH FOR ADDITIONAL GUIDANCE ON ALLOWABLE AXLE LOADS DURING PAVING.
- MINI-EXCAVATORS (<8,000LBS / 3,628KG) CAN BE USED WITH AT LEAST 12" 930MM) OF STONE OVER THE CHAMBERS.
- STORAGE OF MATERIALS SUCH AS CONSTRUCTION MATERIALS, EQUIPMENT, SPOILS, ETC. SHOULD NOT BE LOCATED OVER THE CHAMBERMAXX SYSTEM. PLEASE CONTACT CONTECH FOR MORE INFORMATION.
- ALLOWABLE TRACK LOADS BASED ON VEHICLE TRAVEL ONLY. EXCAVATORS SHALL NOT OPERATE ON CHAMBER BEDS UNTIL THE TOTAL BACKFILL REACHES 3 FEET (900MM) OVER THE ENTIRE BED.

CONTECH®  
ENGINEERED SOLUTIONS LLC

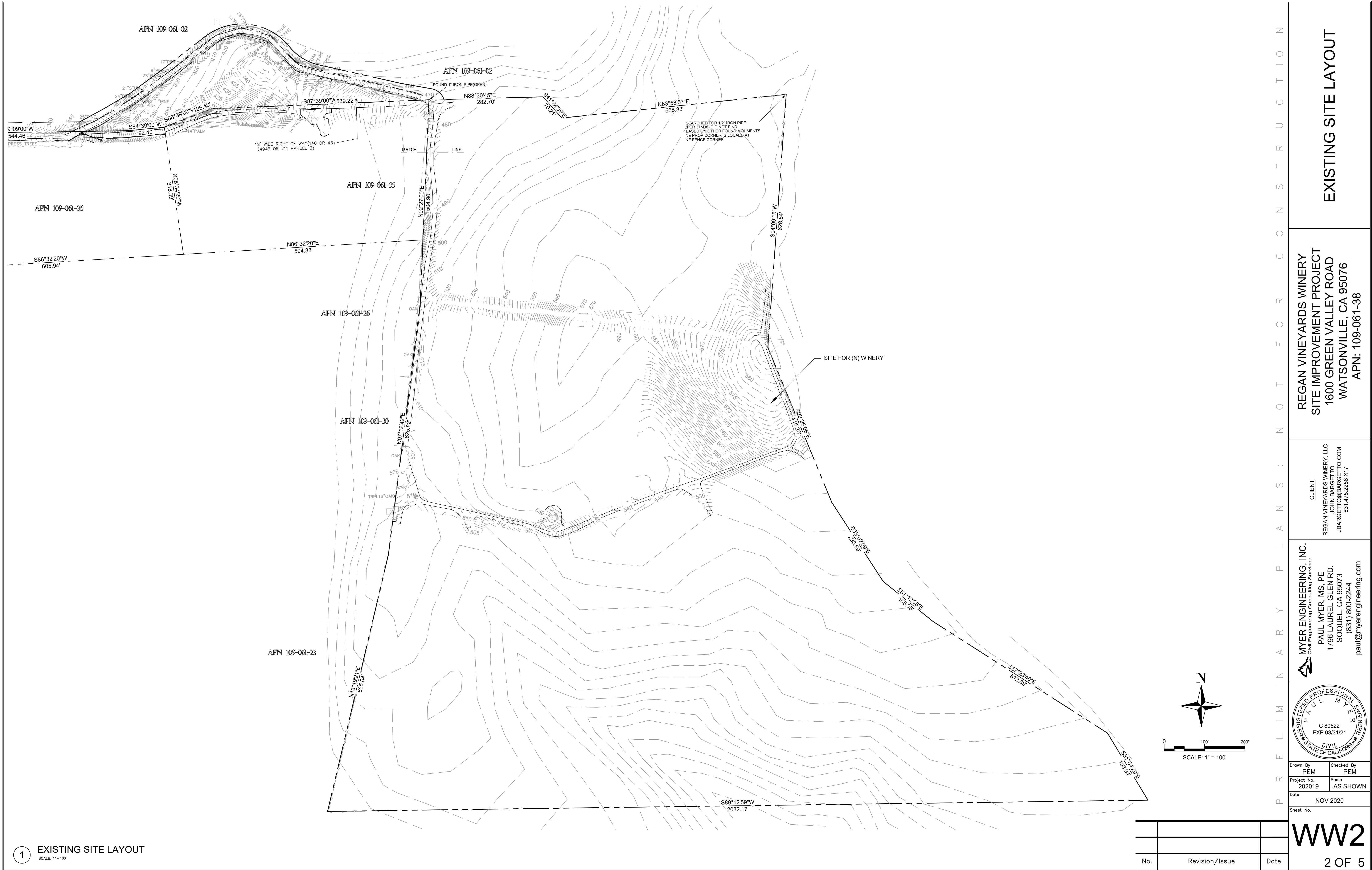
www.ContechES.com  
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069  
800-338-1122 513-645-7000 513-645-7993 FAX

CHAMBERMAXX STORMWATER RETENTION SYSTEM  
STANDARD INSTALLATION DETAIL









1 EXISTING SITE LAYOUT

SCALE: 1" = 100'

No.	Revision/Issue	Date

PRELIMINARY PLAN : NOT FOR CONSTRUCTION

REGAN VINEYARDS WINERY  
SITE IMPROVEMENT PROJECT  
1600 GREEN VALLEY ROAD  
WATSONVILLE, CA 95076  
APN: 109-061-38

CLIENT  
REGAN VINEYARDS WINERY, LLC  
JOHN BARGETTO  
JBARGETTO@BARGETTO.COM  
831.475.2258 X17

MYER ENGINEERING, INC.  
Civil Engineering Consulting Services  
PAUL MYER, MS, PE  
1796 LAUREL GLEN RD.  
SOQUEL, CA 95073  
(831) 800-2244  
paul@myerengineering.com

Drawn By	Checked By
PEM	PEM
Project No.	Scale
202019	AS SHOWN
Date	
NOV 2020	
Sheet No.	

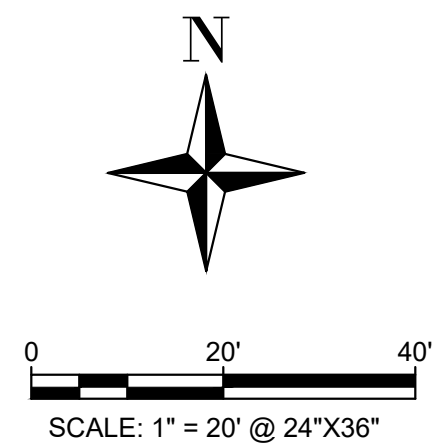
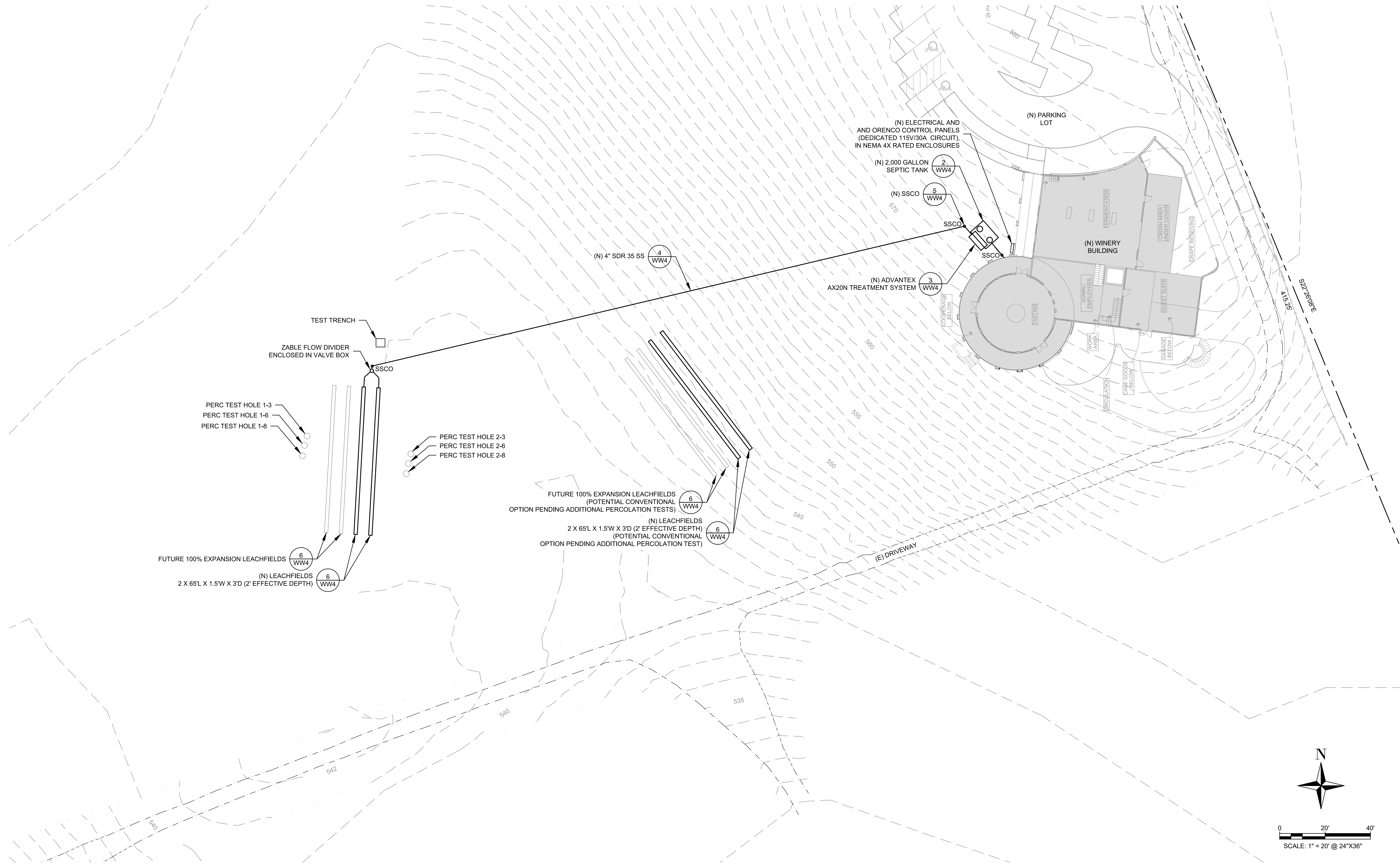
WW2

2 OF 5



1 WASTEWATER SYSTEM PLAN

SCALE: 1" = 20'



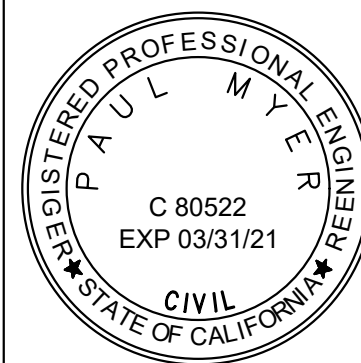
No.	Revision/Issue	Date

WASTEWATER SYSTEM  
PLAN

REGAN VINEYARDS WINERY  
SITE IMPROVEMENT PROJECT  
1600 GREEN VALLEY ROAD  
WATSONVILLE, CA 95076  
APN: 109-061-38

CLIENT  
REGAN VINEYARDS WINERY, LLC  
JOHN BARGETTO  
JBARGETTO@BARGETTO.COM  
831.475.2288 X17

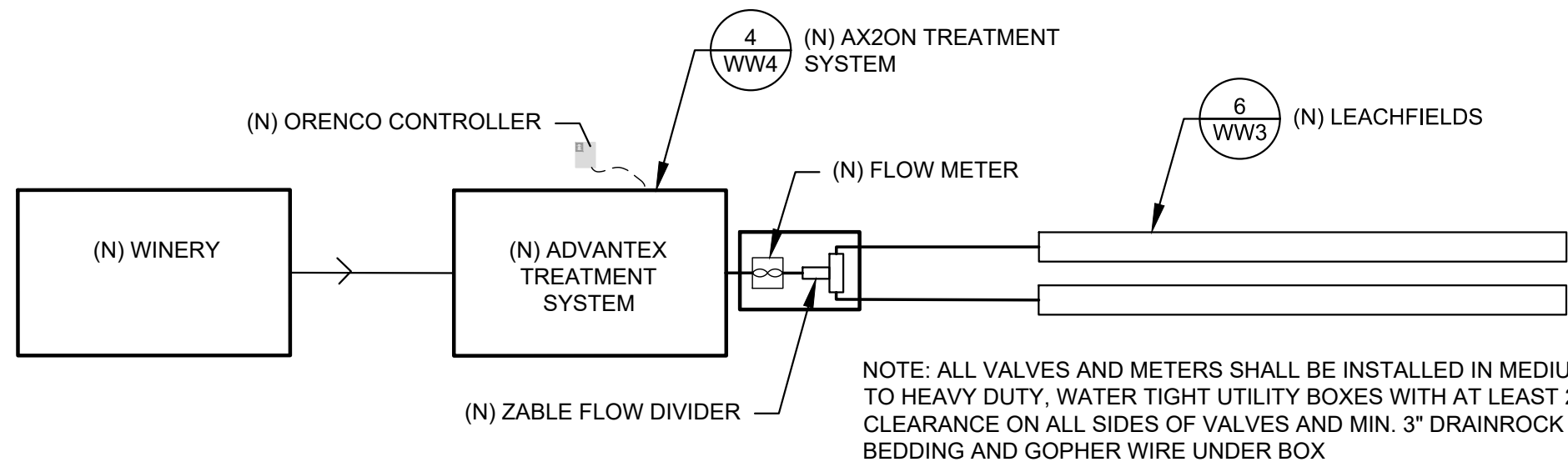
MYER ENGINEERING, INC.  
Civil Engineering Consulting Services  
PAUL MYER, MS, PE  
1796 LAUREL GLEN RD.  
SOQUEL, CA 95073  
(831) 800-2244  
paul@myerengineering.com



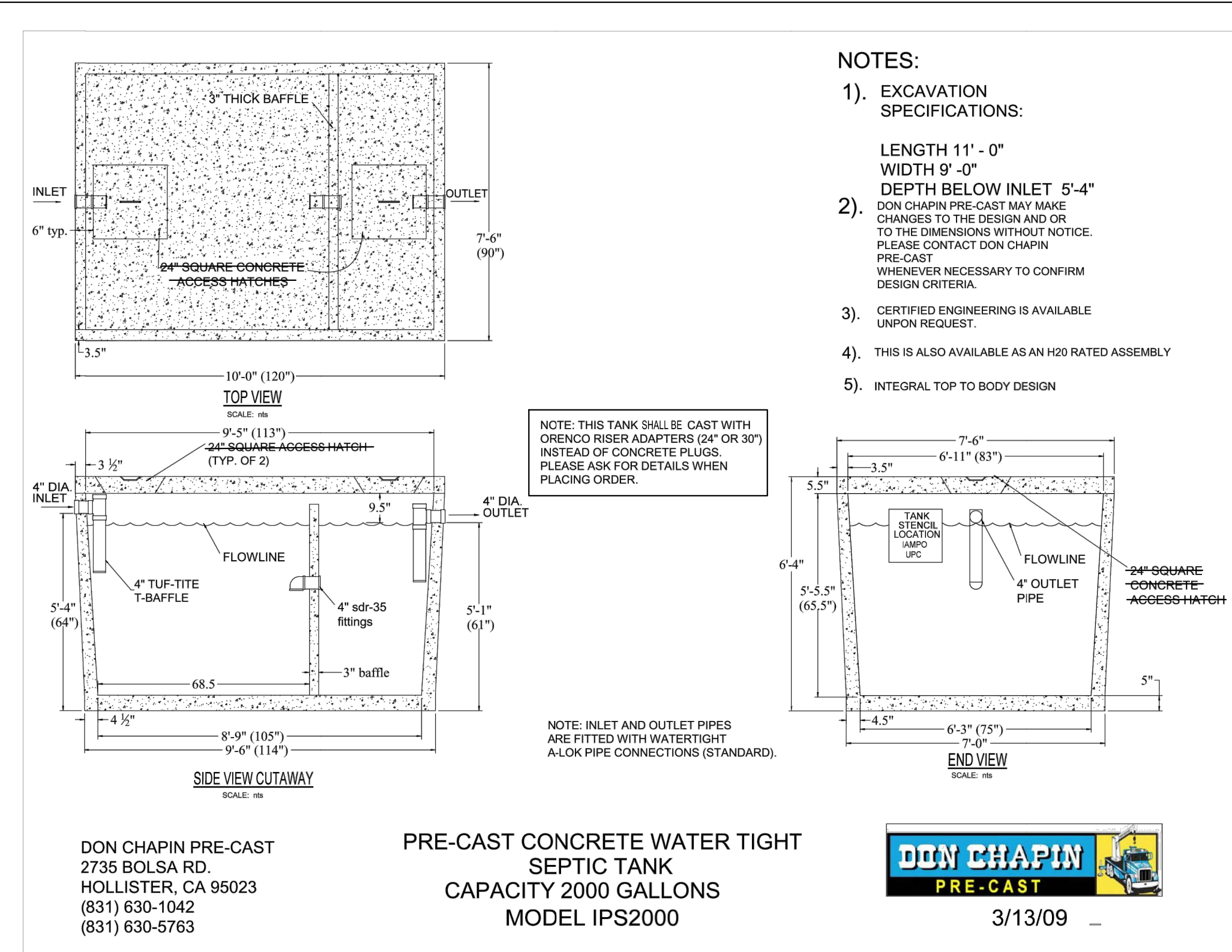
Drawn By PEM	Checked By PEM
Project No. 202019	Scale AS SHOWN
Date NOV 2020	Sheet No.

WW3  
3 OF 5

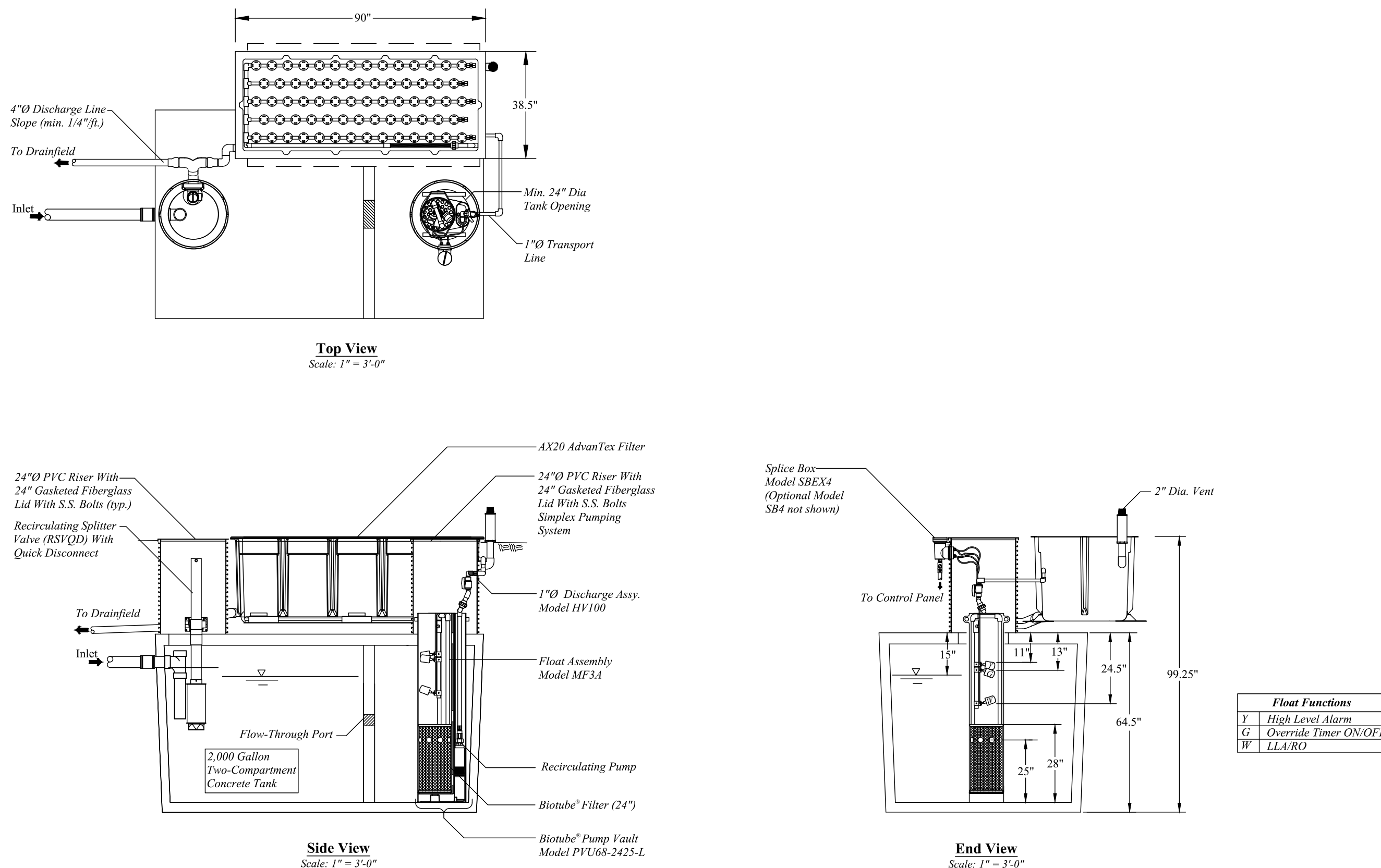




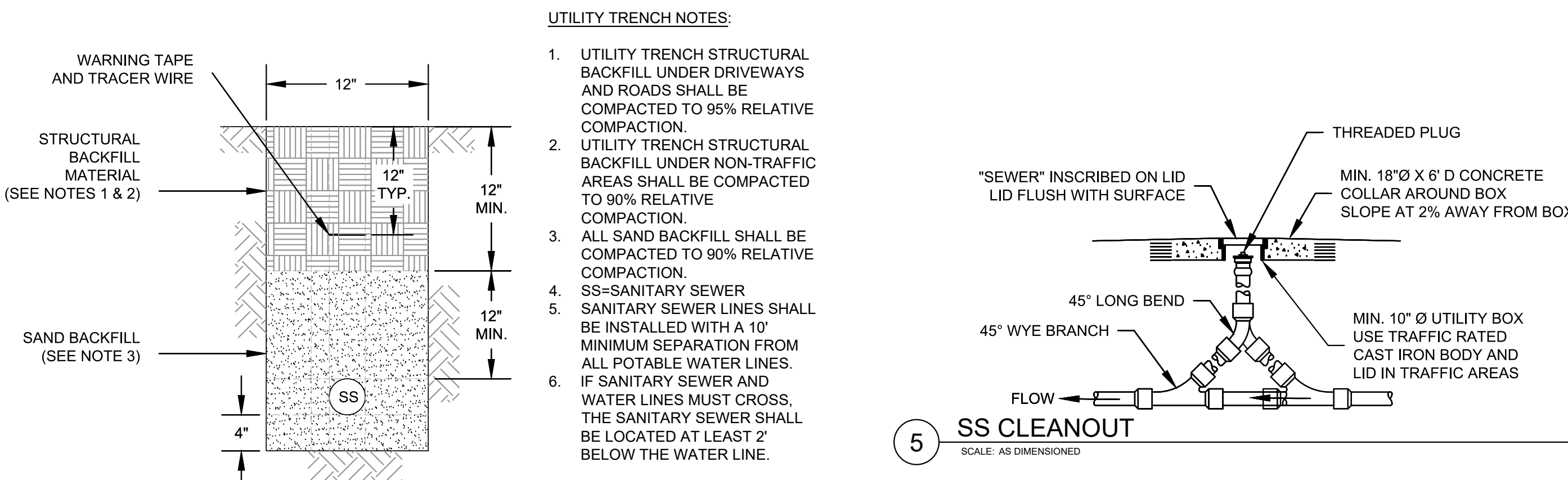
1 WASTEWATER TREATMENT AND DISPOSAL SYSTEM SCHEMATIC



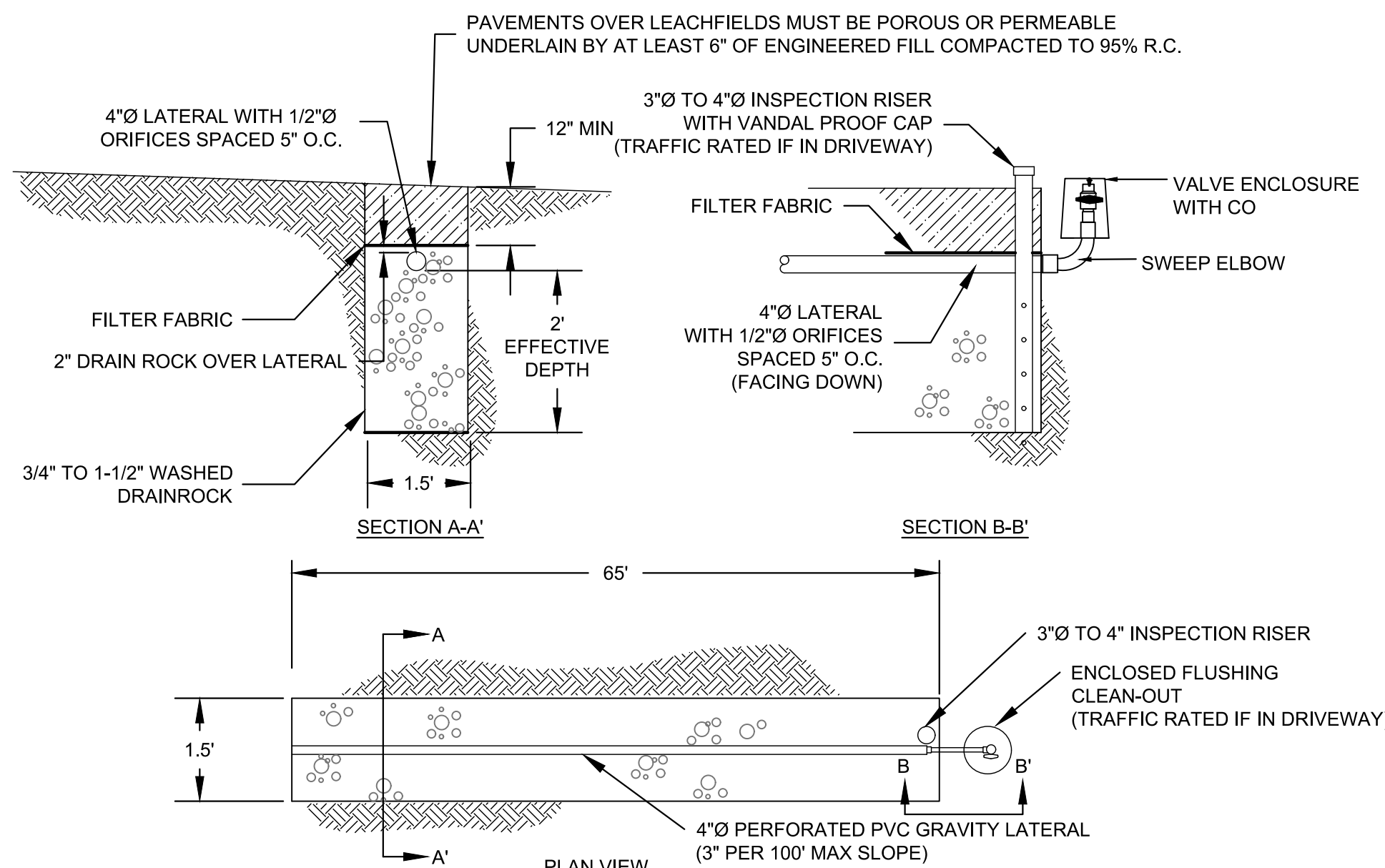
2 2,000 GALLON CONCRETE SEPTIC TANK (CHAPIN PRE-CAST WATERTIGHT CONC.OR EQUIV.)



3 ADVANTEX AX20N MODE 3A ENHANCED TREATMENT SYSTEM (WITH 2,000 GALLON CONCRETE WATERTIGHT SEPTIC TANK)



4 SS UTILITY TRENCH DETAIL



6 CONVENTIONAL LEACHFIELD



GENERAL SPECIFICATIONS			THE FOLLOWING SPECIFICATIONS ARE FOR THE INSTALLATION OF THE ENHANCED WASTEWATER TREATMENT SYSTEM AT THE LOCATION SPECIFIED IN THE BORDER OF THESE DESIGN PLANS. THE ACCOMPANIED PLANS PRESENT THE GENERAL LAYOUT, PLUMBING CONFIGURATION, AND CONSTRUCTION DETAILS.		
MATERIAL SPECIFICATIONS			THE FOLLOWING ARE MATERIAL SPECIFICATIONS FOR THE WASTEWATER SYSTEM COMPONENTS. ALL MATERIALS USED FOR THE CONSTRUCTION OF THIS PROJECT SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS AND AS DESCRIBED IN THE ACCOMPANIED PLANS OR AN ENGINEER APPROVED EQUIVALENT.		
1. SUBSURFACE TANKS			THE SUBSURFACE TANKS INCLUDE THE 2,000 GALLON CONCRETE WATER-TIGHT SEPTIC TANK AND ADVANTECH AX20N TREATMENT SYSTEM.		
1.1.			2,000 GALLON CONCRETE WATER-TIGHT SEPTIC TANK AND AX20N TREATMENT SYSTEM. THE SYSTEM SHALL BE CAPABLE OF TREATING DESIGN FLOW OF AT LEAST 600 GPD. DIMENSIONS, FITTING SIZES AND LOCATIONS, AND OPTIONAL ACCESSORIES SHALL BE INCLUDED AS SHOWN ON TANK DRAWINGS. THE TANK SHALL BE WATERTIGHT AND TESTED IN THE FIELD AFTER INSTALLATION. THE AX20N SYSTEM SHALL BE INSTALLED PER MANUFACTURER RECOMMENDATIONS.		
1.2.			PRODUCT STORAGE. THE SUBSURFACE TANKS SHALL BE CAPABLE OF STORING SEPTAGE LIMITED TO THE COLLECTION AND STORAGE OF HUMAN SOLID OR LIQUID ORGANIC WASTE.		
1.3.			PIPING. SDR35 PVC PIPE, SCHEDULE 40 PVC PIPE, OR ABS PIPE SHALL BE USED FOR INLET AND OUTLET PIPING AS SHOWN ON DRAWINGS. ALL PIPING SHALL BE FACTORY SEALED TO ENABLE FIELD TIGHTNESS TESTING WITH AT LEAST ONE PIPE OPENING PROVIDED WITH A THREADED FITTING FOR CONNECTING A PRESSURE TEST MANIFOLD.		
1.4.			ACCESS OPENINGS. ALL ACCESS OPENINGS SHALL BE 30 INCHES IN DIAMETER OR LARGER AS SHOWN ON THE PLANS, SHALL BE MANUFACTURED OF FIBERGLASS, CONCRETE OR CAST IRON WITH RESPECT TO SPECIFIED TRAFFIC RATING. LOCATIONS SHALL BE AS SHOWN ON TANK DRAWINGS. EACH MANHOLE SHALL HAVE A WATERTIGHT RISER TO FINISH GRADE.		
1.5.			RISERS. RISERS SHALL BE REQUIRED FOR ACCESS TO INTERNAL VAULTS AND ACCESS INTO THE TANKS FOR SEPTAGE PUMPING. ALL RISERS SHALL BE CONSTRUCTED WITH WATERTIGHT SEALS PROVIDED. RISERS SHALL BE A MINIMUM OF 30" IN NOMINAL DIAMETER WHEN THE DEPTH OF BURY IS 36" OR GREATER. TO ENSURE PRODUCT COMPATIBILITY, RISERS, LIDS, AND ATTACHMENT COMPONENTS SHALL BE SUPPLIED BY A SINGLE MANUFACTURER AND, WHERE APPLICABLE, SHALL BE FACTORY EQUIPPED WITH THE FOLLOWING:		
1.5.1.			ADHESIVE. WHEN BONDING TO THE RISER RINGS, AN EPOXY PROVIDED BY THE MANUFACTURER SHALL BE USED. ADHESIVES AND SEALANTS SHALL BE WATERPROOF, CORROSION RESISTANT, AND APPROVED FOR THE INTENDED APPLICATION. THE RISER-TO-TANK CONNECTION SHALL BE WATERTIGHT AND STRUCTURALLY SOUND. THE RISER-TO-TANK CONNECTION SHALL BE CAPABLE OF WITHSTANDING A VERTICAL UPLIFT OF 5,000 POUNDS TO PREVENT RISER SEPARATION DUE TO TANK SETTLEMENT, FROST HEAVE, AND VEHICLE TRAFFIC OVER THE TANK.		
1.5.2.			LIDS. ONE LID SHALL BE FURNISHED WITH EACH ACCESS RISER. LIDS SHALL BE WATERPROOF, CORROSION RESISTANT, AND UV RESISTANT. LIDS SHALL BE FLAT, WITH NO NOTICEABLE UPWARD DOME. LIDS SHALL NOT ALLOW WATER TO POND ON THEM. LIDS SHALL FORM A WATERTIGHT SEAL WITH THE TOP OF RISER. TRAFFIC-RATED LIDS SHALL BE CAPABLE OF WITHSTANDING A TRUCK WHEEL LOAD (36 SQUARE INCHES) OF 2500 POUNDS FOR 60 MINUTES WITH A MAXIMUM VERTICAL DEFLECTION OF 1/16". LIDS SHALL BE PROVIDED WITH TAMPER-RESISTANT STAINLESS STEEL FASTENERS AND A TOOL FOR FASTENER REMOVAL. TAMPER-RESISTANT FASTENERS INCLUDE RECESSED DRIVES, SUCH AS HEX, TORX, AND SQUARE. FASTENERS THAT CAN BE REMOVED WITH COMMON SCREWDRIVERS, SUCH AS SLOTTED AND PHILLIPS, OR FASTENERS THAT CAN BE REMOVED WITH STANDARD TOOLS, SUCH AS PLIERS OR CRESCENT WRENCHES, ARE NOT CONSIDERED TAMPER-RESISTANT. TO PREVENT A TRIPPING HAZARD, FASTENERS SHALL NOT EXTEND ABOVE THE SURFACE OF THE LID.		
1.5.3.			RISER INSTALLATION. RISER INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.		
2. PIPING AND FITTINGS			THE TYPE OF PIPE MATERIALS AND FITTINGS SHALL BE AS DESIGNATED ON THE PLANS AND SHALL COMPLY WITH THE FOLLOWING:		
2.1. FITTINGS AND COUPLINGS			THE FITTINGS AND COUPLINGS FOR PVC PIPES SHALL BE THREADED OR SLIP-FITTED TAPERED SOCKET SOLVENT WELD. THREADED ADAPTERS SHALL BE PROVIDED WITH SOCKET PIPE FOR CONNECTIONS TO THREADED PIPE.		
3. VALVES			3.1. GENERAL VALVES SHALL BE OF THE SIZE, TYPE, AND CAPACITY DESIGNATED ON THE PLANS OR IN THE SPECIFICATIONS AND SHALL COMPLY WITH THE REQUIREMENTS SPECIFIED HEREIN. ALL VALVES ON PRESSURIZED PORTIONS OF THE SYSTEM SHALL BE CAPABLE OF SATISFACTORY PERFORMANCE AT WORKING PRESSURE OF 150 PSI. ALL VALVES ON GRAVITY PORTIONS OF THE SYSTEM SHALL BE RATED FOR AT LEAST TWICE THE ESTIMATED STATIC HEAD ABOVE THE VALVE. VALVES SHALL BE DESIGNED TO PERMIT DISASSEMBLY TO REPLACE SEALING COMPONENTS WITHOUT REMOVAL OF THE VALVE BODY FROM THE PIPELINE, SUCH AS TRUE UNION BALL VALVES AND CHECK VALVES.		
4. ADDITIONAL COMPONENTS			ALL COMPONENTS SHALL BE INSTALLED PER MANUFACTURER RECOMMENDATIONS. IF THERE IS A CONFLICT BETWEEN MANUFACTURER RECOMMENDATIONS, AND THE DESIGN PLANS, THE PROJECT ENGINEER SHALL BE CONTACTED FOR APPROVAL OF INSTALLATION CONFIGURATION.		
5. ADDITIONAL COMPONENTS			ALL COMPONENTS SHALL BE INSTALLED PER MANUFACTURER RECOMMENDATIONS. IF THERE IS A CONFLICT BETWEEN MANUFACTURER RECOMMENDATIONS, AND THE DESIGN PLANS, THE PROJECT ENGINEER SHALL BE CONTACTED FOR APPROVAL OF INSTALLATION CONFIGURATION.		
6. LEACHFIELDS			THE LEACHFIELD SYSTEM SHALL PROVIDE ADDITIONAL TREATMENT AND DISPOSAL OF THE WASTEWATER. THE SYSTEM SHALL BE CONSTRUCTED AS SHOWN ON PLANS.		
6.1. CLEAN DRAIN ROCK			THE DRAIN ROCK SHALL BE LOCATED AS SHOWN IN THE ACCOMPANYING PLANS. THE ROCK SHALL BE CLEAN, DOUBLE WASHED GRAVEL RANGING FROM 3/4"Ø TO 1½"Ø WITH FINES LESS THAN 1%.		
6.2. FILTER FABRIC			THE FILTER FABRIC SHALL BE PLACED ON TOP OF THE GRAVEL ROCK BED. THE FABRIC SHALL BE A GEOTEXTILE SYNTHETIC FILTER FABRIC SUCH AS MIRAFI 1100N, DUPONT TYPAR (4 OR 6 OZ/SQ YD), OR APPROVED EQUIVALENT. THE FABRIC SHALL COVER AN AREA SUCH THAT IT EXTENDS 1 FOOT BEYOND THE TRENCH IN EACH DIRECTION.		
6.3. SOIL COVER			THE SOIL COVER SHALL BE PLACED OVER THE LEACHFIELDS TO REDUCE EROSION AND SLOPE INSTABILITY. THE SOIL SHALL BE A SANDY LOAM TO INCREASE THE POTENTIAL FOR AIR THROUGH THE DEPTH OF THE SOIL. THE SOIL SHALL BE COMPACTED TO A MINIMUM OF 90% RELATIVE COMPACTION IN LANDSCAPE AREAS AND 95% RELATIVE COMPACTION IN DRIVEWAYS AND ROADWAYS.		
CONSTRUCTION SPECIFICATIONS			THE CONSTRUCTION OF THE PROJECT SHALL CONFORM TO THE PLANS AND FOLLOWING SPECIFICATIONS. ALL NECESSARY CONSTRUCTION PERMITS SHALL BE OBTAINED PRIOR TO COMMENCEMENT OF ALL SITE WORK.		
1. PRECONSTRUCTION CONFERENCE			THE CONTRACTOR SHALL HAVE A PRECONSTRUCTION MEETING WITH THE ENGINEER AND OWNER AT LEAST ONE WEEK PRIOR TO COMMENCEMENT OF SITE WORK. THE ENGINEER SHALL BE CONTACTED 48 HOURS		
2. STAKING			PRIOR TO THE MEETING CONFERENCE. THE MEETING SHOULD BE CONDUCTED TO REVIEW THE DESIGN, MATERIAL, AND CONSTRUCTION SPECIFICATIONS. ALL CONTRACTOR PROPOSED REVISIONS IN THE DESIGN SHALL BE APPROVED BY THE ENGINEER. THE INSTALLATION MUST BE INSPECTED BY THE ENGINEER FOR CONFORMANCE TO THE DESIGN.		
3. EXCAVATION			ALL EXCAVATION WORK SHALL BE MADE TO THE LINES, GRADES AND DIMENSIONS SHOWN IN THE ACCOMPANIED PLANS. EXCAVATIONS SHALL BE PERFORMED IN THE DAY AND IN A MANNER THAT MINIMIZES EROSION, FLOODING AND SEDIMENTATION. EXCAVATED SOILS THAT ARE TO BE STOCKPILED ON-SITE SHALL BE PLACED IN A LOCATION AND MANNER THAT MINIMIZES EROSION AND CONTROLS SEDIMENTATION.		
4. POLLUTION CONTROL			4.1. WATER POLLUTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL PERMITTING REQUIREMENTS RELEVANT TO THE CONSTRUCTION OF THE PROJECT ARE MET AT ALL TIMES. ACTIONS BY THE CONTRACTOR, THE SUBCONTRACTORS OR EMPLOYEES THEREOF RESULTING IN NONCOMPLIANCE OF PERMITTING REQUIREMENTS MAY BE GROUNDS FOR TERMINATION OF THIS CONTRACT.		
4.2. NOISE POLLUTION			IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO KEEP NOISE POLLUTION, DUE TO THESE CONSTRUCTION ACTIVITIES, AS LOW AS POSSIBLE.		
4.3. SOIL CONTAMINATION			THE CONTRACTOR SHALL NOT ALLOW REGULATED MATERIALS TO SPILL ON THE PROJECT SITE. ANY SPILLAGE OR REGULATED MATERIALS RESULTING FROM THE CONTRACTOR'S OPERATION SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.		
4.4. STORAGE OF REGULATED MATERIALS			THE STORAGE AND USE OF ANY REGULATED MATERIALS SHALL MEET ALL REQUIREMENTS OF LOCAL, STATE, AND FEDERAL REGULATORY AGENCIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SATISFY THE REQUIREMENTS OF ANY REGULATORY AGENCY FOR THE STORAGE, MONITORING, USAGE, TRANSPORTATION, SAFETY, REPORTING, OR ANY OTHER REQUIREMENTS REGARDING THE MANAGEMENT OF REGULATED MATERIALS ON AND OFF THE PROJECT SITE.		
5. SITE WORK			5.1. MOBILIZATION THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PREPARATORY WORK AND PLACEMENT OF MATERIALS IN A STAGING AREA REQUIRED FOR CONSTRUCTION OPERATIONS INCLUDING, BUT NOT LIMITED TO, THOSE NECESSARY FOR THE MOVEMENT OF PERSONNEL, EQUIPMENT, SUPPLIES, AND INCIDENTALS TO THE PROJECT SITE; FOR THE ESTABLISHMENT OF FACILITIES NECESSARY FOR WORK ON THE PROJECT; PROVIDING POLLUTION CONTROL MEASURES; AND FOR ALL OTHER WORK AND OPERATIONS WHICH MUST BE PERFORMED.		
5.2. CLEARING AND GRUBBING			CLEAR THE SITE AS SHOWN ON THE DRAWINGS AND AS SPECIFIED IN THIS SECTION. CLEARING AND GRUBBING SHALL CONSIST OF ALL WORK INCLUDING, BUT NOT LIMITED TO, SALVAGED MATERIALS REMOVAL, PROVIDING AND INSTALLING TEMPORARY EROSION CONTROL, AND PLACEMENT OF TREES, TREE BRANCHES, TREE STUMPS, BRUSH, ROOTS, BOULDERS, SHRUBS, SEDIMENT, AND ALL OBJECTIONABLE MATERIALS IN AN AGREED UPON LOCATION ADJACENT TO THE WORK SITE.		
5.3. EXAMINE THE AREAS AND CONDITIONS UNDER WHICH THE WORK OF THIS SECTION WILL BE PERFORMED.			CORRECT CONDITIONS DETRIMENTAL TO TIMELY AND PROPER COMPLETION OF THE WORK. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED.		
5.4. ALL WASTES DISPOSAL SHALL BE CONDUCTED AS FOLLOWS:			A. REMOVE WASTE FROM CLEARING OPERATIONS. B. DISPOSE OF AWAY FROM THE SITE IN A LEGAL MANNER. C. DO NOT STORE OR PERMIT DEBRIS TO ACCUMULATE ON THE JOB SITE. D. DO NOT BURN DEBRIS AT THE SITE.		
6. DELETERIOUS MATERIALS			MATERIALS CONTAINING AN EXCESS OF 5% (BY WEIGHT) OF VEGETATION OR OTHER DELETERIOUS MATTER MAY BE UTILIZED IN AREAS OF LANDSCAPING OR OTHER NON-STRUCTURAL FILLS. DELETERIOUS MATERIAL INCLUDES ALL VEGETATIVE AND NON-MINERAL MATTER, AND ALL NON-REDUCIBLE STONE, RUBBLE AND/OR MINERAL MATTER OF GREATER THAN 6 INCHES.		
7. UTILITY TRENCHES			A. A SELECT, NONCORROSIVE, GRANULAR, EASILY COMPACTED MATERIAL SHOULD BE USED AS BEDDING AND SHADING IMMEDIATELY AROUND UTILITY PIPES. THE SITE SOILS MAY BE USED FOR TRENCH BACKFILL ABOVE THE SELECT MATERIAL. IF OBTAINING COMPACTION IS DIFFICULT WITH THE SITE SOILS, USE OF A MORE EASILY COMPACTED SAND MAY BE DESIRABLE. THE UPPER FOOT OF BACKFILL IN LANDSCAPED OR OTHER OPEN AREAS SHOULD CONSIST OF NATIVE MATERIAL TO REDUCE THE POTENTIAL FOR SEEPAGE OF WATER INTO THE BACKFILL. B. TRENCH BACKFILL IN THE UPPER 12 INCHES OF SUBGRADE BENEATH AREAS TO RECEIVE PAVEMENT SHOULD BE COMPACTED TO A MINIMUM OF 95 PERCENT OF MAXIMUM DRY DENSITY. TRENCH BACKFILL IN OTHER AREAS SHOULD BE COMPACTED TO A MINIMUM OF 90 PERCENT OF MAXIMUM DRY DENSITY. JETTING OF UTILITY TRENCH BACKFILL SHOULD NOT BE ALLOWED.		
8. PIPE INSTALLATION			8.1. GENERAL PIPE SHALL BE JOINED BY SOCKET TYPE SOLVENT-WELDED FITTINGS OR THREADED FITTINGS. PLASTIC PIPE SHALL BE CUT SQUARE, EXTERNALLY CHAMFERED APPROXIMATELY 10 TO 15 DEGREES, AND ALL BURRS AND FINIS REMOVED. SOLVENT-WELDED JOINTS SHALL BE MADE IN ACCORDANCE WITH ASTM D 2855. THE SOLVENT RECOMMENDED BY THE MANUFACTURER SHALL BE USED.		
8.2. CARE SHALL BE EXERCISED IN ASSEMBLING A PIPELINE WITH SOLVENT WELDED JOINTS SO THAT STRESS ON PREVIOUSLY MADE JOINTS IS AVOIDED. HANDLING OF THE PIPES FOLLOWING JOINTING, SUCH AS LOWERING THE ASSEMBLED PIPELINE INTO THE TRENCH, SHALL NOT OCCUR PRIOR TO THE SET TIMES SPECIFIED BY THE MANUFACTURER.			SOLVENTS SHALL BE APPLIED TO PIPE ENDS IN SUCH A MANNER THAT NO MATERIAL IS DEPOSITED ON THE INTERIOR SURFACE OF THE PIPE OR EXTRUDED INTO THE INTERIOR OF THE PIPE DURING JOINTING. EXCESS CEMENT ON THE EXTERIOR OF THE JOINT SHALL BE WIPED CLEAN IMMEDIATELY AFTER ASSEMBLY.		
8.3. THREADED PIPE JOINTS SHALL BE MADE USING TEFLON TAPE OR OTHER APPROVED JOINTING MATERIAL. SOLVENT SHALL NOT BE USED WITH THREADED JOINTS. PLASTIC PIPE WHICH HAS BEEN NICKED, SCARRED, OR OTHERWISE DAMAGED SHALL BE REMOVED AND REPLACED. PLASTIC PIPE SHALL BE SNAKED FROM SIDE TO SIDE IN THE TRENCH TO ALLOW 1 FOOT OF EXPANSION AND CONTRACTION PER 100 FEET OF STRAIGHT RUN. THE PIPELINE SHALL NOT BE EXPOSED TO WATER FOR 24 HOURS AFTER THE LAST SOLVENT-WELDED JOINT IS MADE.			GRAVITY PIPE FOR WASTEWATER SHALL PROVIDE 2 FT VERTICAL AND 10 FT HORIZONTAL CLEARANCE FROM WATER LINES, AND SHALL CROSS SUCH LINES AS NEARLY AS POSSIBLE TO 90 DEGREES, IF CROSSING CAN NOT BE AVOIDED.		
8.4. PIPE SLOPES SHALL NOT BE LESS THAN 2% FOR 4"Ø PIPE. PIPES SHALL ENTER AND LEAVE CONNECTIONS AS CLOSE TO PARALLEL AS POSSIBLE, BUT IN NO WAY TO EXCEED AN ANGLE OF 45°. 90° TEE CONNECTIONS ARE NOT ALLOWED.			8.5. GENERAL TRENCHING EXCAVATION OF PIPE TRENCHES SHALL FOLLOW NEAT AND PARALLEL LINES, WITH TRENCH WIDTH, IN		
GENERAL. TO BE ONE FOOT, WITH SUCH WIDENING, AS REQUIRED TO PLACE VALVES AND FITTINGS WITH A MINIMUM OF 4 INCH CLEARANCE TO TRENCH WALL. THE TRENCH SHALL BE NO LESS THAN 24 INCHES DEEP, EXCEPT WHEN IT IS NECESSARY, TO AVOID UNDERGROUND OBSTRUCTIONS OR ROCKY CONDITIONS. IN ALL CASES, THE PIPE SHALL BE PLACED ON A BEDDING OF IMPORTED OR NATIVE MATERIAL PROVIDING CONTINUOUS SUPPORT THROUGHOUT ITS LENGTH.			BACKFILL FOR THE PIPE TO THE TOP OF THE PIPE PLUS 4 INCHES SHALL BE SELECTED OR IMPORTED SANDY MATERIAL, FREE OF STONE, CLAY, LIMBS OR OTHER DELETERIOUS MATERIALS IN EXCESS OF 1/2 INCH MAXIMUM DIMENSION, PLACED AND TAMPED AND/OR PADDED ABOUT THE PIPE TO ENSURE PROPER BEDDING PRIOR TO COMPLETION OF TRENCH FILL. THE REMAINING BACKFILL SHALL BE PLACED AT 90% RELATIVE COMPACTION.		
9. FLUSHING AND TESTING			AFTER COMPLETION, ALL PIPELINES SHALL BE THOROUGHLY FLUSHED TO REMOVE DIRT, SCALE, OR OTHER MATERIAL. AFTER FLUSHING, THE LINE SHALL BE PRESSURE TESTED. ALL EQUIPMENT, MATERIALS AND LABOR NECESSARY TO PERFORM THE TESTS SHALL BE FURNISHED BY THE CONTRACTOR AND ALL TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE OWNER OR ENGINEER.		
10. OPERATIONAL TEST			THE PERFORMANCE OF ALL COMPONENTS OF THE SYSTEMS SHALL BE EVALUATED BY THE CONTRACTOR. DURING THE TEST PERIOD AND AT LEAST 15 DAYS PRIOR TO FINAL INSPECTION, THE SYSTEM SHALL OPERATE SATISFACTORILY DURING SUCH PERIOD. ALL NECESSARY REPAIRS, REPLACEMENTS, AND ADJUSTMENTS SHALL BE MADE UNTIL ALL EQUIPMENT, ELECTRICAL WORK, CONTROLS, AND INSTRUMENTATION ARE FUNCTIONING IN ACCORDANCE WITH THE CONTRACTORS DOCUMENTS OR MANUFACTURER SPECIFICATIONS.		
11. AS-BUILT DRAWINGS			THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A SET OF AS-BUILT DRAWINGS OF THE LAYOUT AND CONSTRUCTION OF THE SYSTEM.		
12. OTHER ITEMS			ANY PROCEDURES NOT NOTED OR INCLUDED IN THE ENGINEERING PLANS OR SPECIFICATIONS SHALL BE APPROVED BY THE PROJECT ENGINEER PRIOR TO IMPLEMENTATION.		
EROSION CONTROL NOTES:			GENERAL. THE CONTRACTOR SHALL INSTALL, MAINTAIN AND INSPECT EROSION CONTROL AND TEMPORARY STORMWATER CONTROL MEASURES TO CONTROL SEDIMENT AND RUNOFF IN ACCORDANCE WITH THESE PLANS AND THE LOCAL JURISDICTION.		
1.1. THE CONSTRUCTION OF THIS PROJECT IS NOT EXPECTED TO OCCUR DURING THE WINTER SEASON (OCTOBER 15TH THROUGH APRIL 15TH).			1.2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL BMP INSTALLATION AND MAINTENANCE.		
1.3. ALL GRADING SHALL CONFORM TO THE LOCAL GRADING ORDINANCE, EROSION CONTROL ORDINANCES, AND CALIFORNIA BUILDING CODE.			1.4. ALL DISTURBED SURFACES SHALL BE PREPARED AND MAINTAINED TO CONTROL EROSION AND TO ESTABLISH NATIVE OR NATURALIZED VEGETATIVE GROWTH COMPATIBLE WITH THE AREA. THIS CONTROL SHALL CONSIST OF: A. EFFECT TEMPORARY PLANTING SUCH AS RYE GRASS, SOME OTHER FAST-GERMINATION SEED, AND MULCHING WITH STRAW AND/OR OTHER SLOPE STABILIZATION MATERIAL; B) PERMANENT PLANTING OF NATIVE OR NATURALIZED DROUGHT RESISTANT SPECIES OF SHRUBS, TREES, OR OTHER VEGETATION, PURSUANT TO THE COUNTY'S LANDSCAPE CRITERIA, WHEN THE PROJECT IS COMPLETED; C) MULCHING, FERTILIZING, WATERING OR OTHER METHODS MAY BE REQUIRED TO ESTABLISH NEW VEGETATION, ON SLOPES LESS THAN 20%, TOPSOIL SHOULD BE STOCKPILED AND REAPPLIED.		
SEED AND MULCH. ALL AREAS ON- AND OFF-SITE EXPOSED DURING CONSTRUCTION ACTIVITIES, IF NOT PERMANENTLY LANDSCAPED PER PLAN, SHALL BE PROTECTED BY MULCHING AND/OR HAND BROADCASTING OF THE FOLLOWING STERIL, WEED FREE, SEED MIX AND INCORPORATED OVER ALL DISTURBED SLOPES:			BROMUS CARINATUS 10#/ACRE LEYMUS TRITICOIDES 8#/AC. HORDEUM BRACHYANTHERUM 5#/AC. FESTUCA RUBRA 8#/AC. DESCHAMPSIA CESPITOSA 8#/AC.		
THE MIX/APPLICATION SHALL ALSO CONTAIN:			- FERTILIZER (6-3-3) SHALL BE HAND BROADCAST AND INCORPORATED AT 30-LB/ACRE OVER ENTIRE AREA. - MYCHORRHIZAL FUNGI SHALL BE ADDED AT 50 LB/ ACRE. - IF HYDROSEEDING, ADD MULCH AND TACKIFIER TO ABOVE.		
ALL EXCAVATED MATERIAL SHALL BE REMOVED TO AN APPROVED DISPOSAL SITE OR DISPOSED OF ON-SITE IN A MANNER THAT WILL NOT CAUSE EROSION.			CONCRETE WASHOUT. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE LOCATED A MINIMUM OF 50 FEET FROM STORM DRAIN INLETS, OPEN DRAINAGE FACILITIES, AND WATERCOURSES. THE CONCRETE WASHOUT FACILITY SHALL BE BELOW GRADE AND CONSTRUCTED WITH A MINIMUM LENGTH AND MINIMUM WIDTH OF 10 FEET. TEMPORARY CONCRETE FACILITIES SHALL BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS. THE WASHOUT SHALL HAVE A 10 MIL POLYETHYLENE PLASTIC LINER. WHEN CONCRETE WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE AND MATERIALS FOR THE WASHOUT SHALL BE REMOVED AND DISPOSED OF: HOLES, DEPRESSIONS, OR OTHER GROUND DISTURBANCES CAUSED BY THE REMOVAL OF THE CONCRETE WASHOUT SHOULD BE BACKFILLED AND REPAIRED.		
OTHER PROVISIONS. IF CONSTRUCTION OCCURS BETWEEN OCTOBER 15TH AND APRIL 15TH, EXPOSED SOIL NOT INVOLVED IN IMMEDIATE CONSTRUCTION ACTIVITY SHALL BE PROTECTED FROM EROSION AT ALL TIMES. AFTER APRIL 15TH, EROSION CONTROL MEASURES SHALL BE IN PLACE DURING INCLEMENT WEATHER.			EROSION CONTROL MEASURES SHALL BE KEPT IN PLACE BY THE CONTRACTOR UNTIL NATIVE VEGETATION HAS BEEN ESTABLISHED AND PROVIDES NECESSARY SLOPE COVER (MINIMUM 70% COVER).		
REGAN VINEYARDS WINERY SITE IMPROVEMENT PROJECT 1600 GREEN VALLEY ROAD WATSONVILLE, CA 95076 APN: 109-061-38			CLIENT REGAN VINEYARDS WINERY, LLC JOHN BARGETTO JBARGETTO@BARGETTO.COM 831.475.2258 X17		
MYER ENGINEERING, INC. Civil Engineering Consulting Services PAUL MYER, MS, PE 1796 LAUREL GLEN RD. SOQUEL, CA 95073 (831) 800-2244 paul@myerengineering.com			PAUL MYER REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA C 80522 EXP 03/31/21 CIVIL		
Drawn By PEM			Checked By PEM		
Project No. 202019			Scale AS SHOWN		
Date NOV 2020			Sheet No.		
			WW5		
No.			Revision/Issue		
			Date		
			5 OF 5		