GRADING AND DRAINAGE PLANS FOR:

5173 CANADA ROAD – CARTER LIVESTOCK

GILROY (SANTA CLARA COUNTY), CALIFORNIA

CONTACT INFORMATION:

PROPERTY OWNER: STEVE CARTER
CARTER LIVESTOCK
7565 PRESTWICK CT.
GILROY, CA 95020

CIVIL ENGINEER: STEVE CALCAGNO, P.E.
CONTACT: STEPHEN STROUP
KIER & WRIGHT CIVIL ENGINEERS & SURVEYORS, INC.
2850 COLLIER CANYON ROAD
LIVERMORE, CA 94551
925-245-8788
925-245-8796 FAX
sstroup@kierwright.com

GEOTECHNICAL ENGINEER: GEORGE J. BARNETT
EARTH SYSTEMS PACIFIC
400 PARK CENTER DRIVE, SUITE 1
HOLLISTER, CA 95023

GRADING NOTES

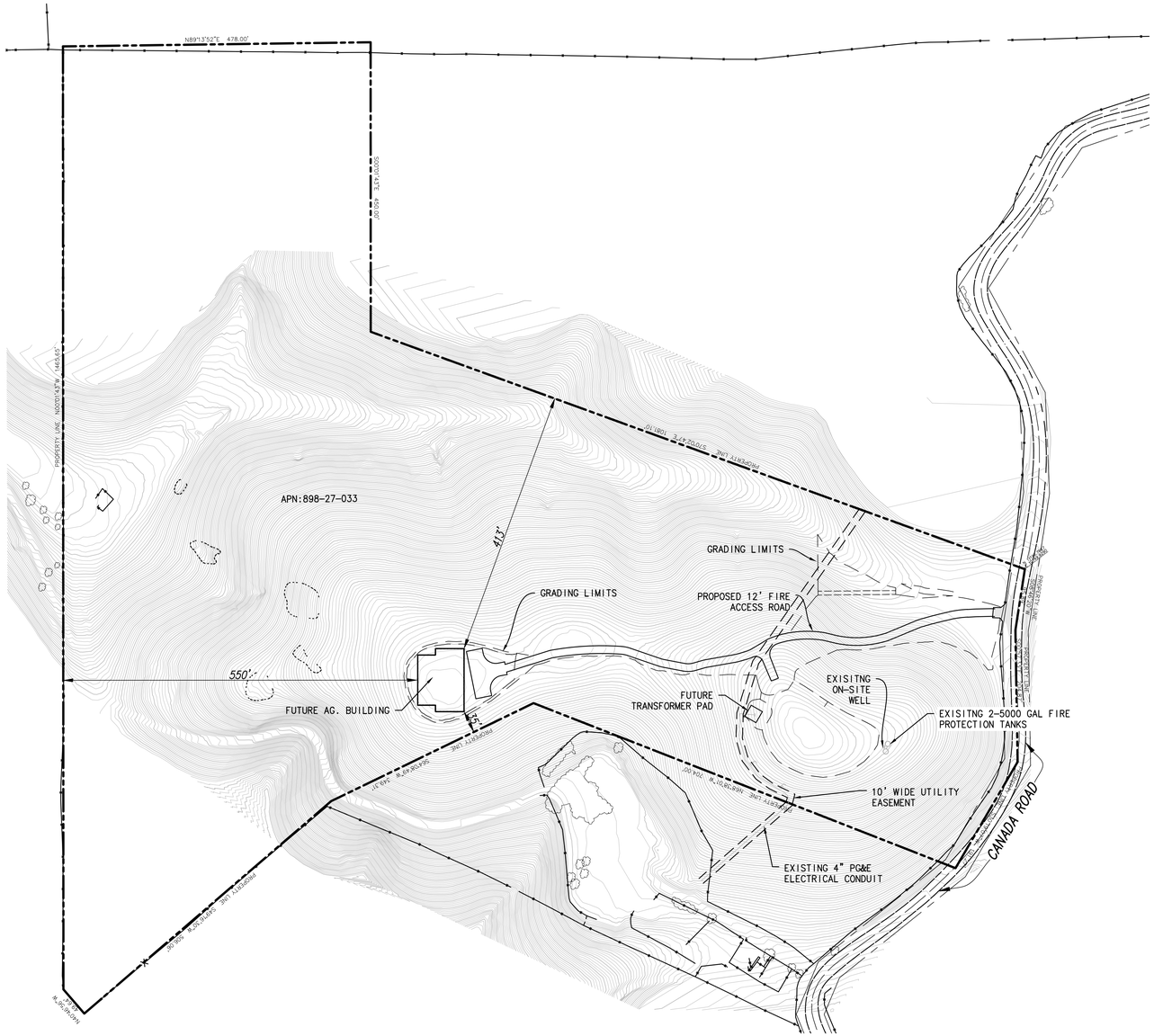
1. ALL GRADING SHALL BE DONE IN ACCORDANCE WITH RECOMMENDATIONS IN THE GEOTECHNICAL INVESTIGATION PREPARED FOR THIS SITE BY EARTH SYSTEMS PACIFIC, DATED NOVEMBER 10TH, 2003, FILE NO. 0311-526.SER.
2. CONTRACTOR SHALL DETERMINE HIS OWN EARTH QUANTITIES AND BASE HIS BID ACCORDINGLY.
3. COMPACTION TO BE DETERMINED USING GEOTECHNICAL INVESTIGATION PREPARED FOR THIS SITE.
4. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESES IMPROVEMENT PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, THE ENGINEER CAN NOT ASSUME RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THEIR DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED, BUT ARE NOT SHOWN ON THESE DRAWINGS.
5. CONTRACTOR SHALL UNCOVER AND EXPOSE ALL EXISTING UTILITY AND SEWER LINES WHERE THEY ARE TO BE CROSSED, ABOVE OR BELOW, BY THE NEW FACILITY BEING CONSTRUCTED IN ORDER TO VERIFY THE GRADE AND TO ASSURE THAT THERE IS SUFFICIENT CLEARANCE. PIPE SHALL NOT BE STRUNG NOR TRENCHING COMMENCED UNTIL ALL CROSSINGS HAVE BEEN VERIFIED FOR CLEARANCE. IF THE CONTRACTOR FAILS TO FOLLOW THIS PROCEDURE, HE WILL BE SOLELY RESPONSIBLE FOR ANY EXTRA WORK OR MATERIAL REQUIRED IF MODIFICATIONS TO THE DESIGN ARE NECESSARY.
6. THE CONTRACTOR SHALL SET HIS STRING OR WIRE THROUGH AT LEAST THREE GRADE STAKES TO VERIFY GRADE. IF THE STAKES DO NOT PRODUCE A UNIFORM GRADE, NOTIFY THE ENGINEER IMMEDIATELY AND HAVE THE GRADES CHECKED PRIOR THE TRENCHING OR PLACEMENT OF CONCRETE.
7. ANY ADJUSTMENTS TO GRADES TO ACHIEVE EARTHWORK BALANCE SHALL BE MADE ONLY WITH APPROVAL OF THE ENGINEER.

EROSION & SEDIMENT CONTROL MEASURES

1. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE EFFECTIVE FOR THE DURATION OF CONSTRUCTION.
2. THE CONTRACTOR SHALL PLACE 3"-6" COARSE AGGREGATE AS A GRAVEL ROADWAY (12" MIN. THICK FOR THE FULL WIDTH AND 50 FEET LONG) AT EACH D/W ENTRANCE TO SITE. ANY MUD THAT IS TRACKED ONTO PUBLIC STREETS SHALL BE REMOVED THAT SAME DAY AND AS REQUIRED BY THE COUNTY.
3. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED AND CHANGES TO THIS EROSION AND SEDIMENT CONTROL PLAN SHALL BE MADE TO MEET FIELD CONDITIONS ONLY WITH THE APPROVAL OF OR AT THE DIRECTION OF THE COUNTY.
4. ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT-LADEN RUN-OFF TO ANY STORM DRAINAGE SYSTEM.
5. THIS PLAN COVERS ONLY THE FIRST WINTER FOLLOWING GRADING. PLANS ARE TO BE RESUBMITTED FOR COUNTY APPROVAL PRIOR TO THE SEPTEMBER FIRST OF EACH SUBSEQUENT YEAR UNTIL THE SITE IMPROVEMENTS ARE ACCEPTED BY THE COUNTY.
6. ALL EROSION CONTROL FACILITIES MUST BE INSPECTED AND REPAIRED AT THE END OF EACH WORKING DAY.
7. SEDIMENT BASINS, IF USED, SHALL BE CLEANED OUT WHENEVER SEDIMENT REACHES THE SEDIMENT CLEANOUT LEVEL INDICATED ON THE PLANS.
8. BORROW AREAS AND TEMPORARY STOCKPILES SHALL BE PROTECTED WITH APPROPRIATE EROSION CONTROL MEASURES TO THE SATISFACTION OF THE QSP.
9. ALL CUT AND FILL SLOPES ARE TO BE PROTECTED TO PREVENT OVERBANK FLOW.
10. INLETS WHICH ARE NOT USED IN CONJUNCTION WITH ROCK BARRIER BAGS OR SEDIMENT BASINS SHOULD BE COVERED, OR OTHERWISE ADJUSTED TO PREVENT INFLOW, UNLESS THE AREA DRAINED IS UNDISTURBED OR STABILIZED.
11. THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO ANTICIPATED FIELD CONDITIONS. VARIATIONS MAY BE MADE TO THE PLAN IN THE FIELD SUBJECT TO THE APPROVAL OF THE ENGINEER.
12. DETAILS FOR THE CONSTRUCTION OF FACILITIES ARE SHOWN ON C2.
13. THIS PLAN IS INTENDED TO BE USED FOR EROSION CONTROL ONLY. OTHER INFORMATION SHOWN HEREIN MAY NOT BE THE MOST CURRENT. SEE SHEET C1 AND C2 FOR OTHER INFORMATION.

PROJECT DESCRIPTION

THE PROPOSED PROJECT WILL CONSIST OF A FIRE/ALL WEATHER ACCESS ROAD MADE UP OF 12" OF AGGREGATE BASE FROM CANADA ROAD TO A FUTURE PREFABRICATED METAL BUILDING, INTENDED FOR AGRICULTURAL USE. THE SITES SURROUNDING AREA IS RURAL RESIDENTIAL AND AGRICULTURAL. THE TOPOGRAPHY OF THE SITE CONSISTS OF TWO KNOLLS, BOTH WITH GENTLE TO MODERATE INCLINED SLOPES. THE GRADING DESIGN ENSURES THAT PUBLIC SAFETY AND HEALTH ARE NOT AT DANGER, AND SUSTAINABILITY FOR THE EXISTING AND PROPOSED WATERCOURSES. THE GRADING DESIGN WILL BE COMPLETED BY UTILIZING THE CUT SOIL AS FILL. THE LIMITS OF GRADING CONFORM TO THE EXISTING TOPOGRAPHY AS SHOWN ON SHEET C1. THE GRADING DESIGN CONFORMS TO THE GENERAL AND SPECIFIC PLAN POLICIES AND THE "GUIDELINES FOR GRADING AND HILLSIDE DEVELOPMENT" AND OTHER APPLICABLE GUIDELINES ADOPTED BY THE COUNTY.



NORTH

0 50 100 200 300

Scale 1" = 100 ft

SHEET INDEX

LEGEND

PROPOSED	EXISTING	
		ASPHALT BERM
		BLOCK/RETAINING WALL
		BUILDING LINE
		FLUSH CONCRETE CURB
		CONCRETE CURB
		CONCRETE CURB CUT
100	100	CONCRETE CURB & GUTTER
		CONTOUR LINE
		DRIVEWAY
		EDGE OF PAVEMENT
		FENCE LINE
GB	GB	GRADE BREAK LINE
		LOT LINE
PERF. PIPE		MONUMENT/MONUMENT LINE
CP	CP	PERFORATED STORM DRAIN PIPE
		PROPERTY LINE
R	R	RIDGE LINE
RWLR	RWL	RAINWATER LEADER
		SIDEWALK
SD	SD	STORM DRAIN-MANHOLE & CATCH BASIN
		THRU CURB DRAIN
100.00	H00.00	SPOT ELEVATION
		TRAFFIC SIGN
		TREE
		UTILITY BOX
AD	AD	AREA DRAIN
BW	BW	BACK OF WALK
BLDG	BLDG	BUILDING
BL	BL	BUILDING LINE
CB	CB	CATCH BASIN
COTG	COTG	CLEANOUT TO GRADE
C	C	CONCRETE
DR	DR	DOOR
DS	DS	DOWN SPOUT
DIP	DIP	DUCTILE IRON PIPE
ESMT	ESMT	EASEMENT
EW	EW	EDGE OF WALK
FB	FB	FACE OF BERM
FC	FC	FACE OF CURB
FW	FW	FACE OF WALL
FF	FF	FINISHED FLOOR
FL	FL	FLOW LINE
GB	GB	GRADE BREAK
HP	HP	HIGH POINT
IE	IE	INVERT ELEVATION
LP	LP	LOW POINT
LT	LT	LIGHT
OF	OF	OVERFLOW
PV	P	PAVEMENT
RWL	RWL	RAINWATER LEADER
R	R	RIDGE
RE	RE	RIM ELEVATION
RD	RD	ROOF DRAIN
SDJB	SDJB	STORM DRAIN JUNCTION BOX
SDMH	SDMH	STORM DRAIN MANHOLE
SWL	SWL	SWALE
TB	TB	TOP OF BERM
TC	TC	TOP OF CURB
TW	TW	TOP OF WALL
T	T	TRANSFORMER
TE	TE	TRASH ENCLOSURE

FOR GRADING ONLY

811 Know what's below. Call before you dig.

NO.	REVISION	BY

NO.	REVISION	BY
1	2022.11.30 - 1ST AE SUBMITTAL	SBV

REGISTERED PROFESSIONAL ENGINEER
STEVEN M. CALCAGNO
No. 62732
11/30/2022
CIVIL
STATE OF CALIFORNIA

KIER & WRIGHT
CIVIL ENGINEERS & SURVEYORS, INC.
2850 Collier Canyon Road
Livermore, California 94551
Phone (925) 245-8788
Fax (925) 245-8796

COVER SHEET
OF
5173 CANADA ROAD
FOR
CARTER LIVESTOCK
GILROY, CALIFORNIA

DATE	OCTOBER, 2024
SCALE	1"=100'
DESIGNER	SS
JOB NO.	A15702
SHEET	CV
OF	5 SHEETS

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EARTHWORK SUMMARY

CUT: 4,700 CY

FILL: 4,400 CY

NET: 300 CY (CUT)

MAX. CUT DEPTH = 2 FT
MAX. FILL DEPTH = 6 FT

NOTE:
THE EARTHWORK QUANTITIES LISTED ON THESE PLANS ARE STATED ONLY FOR CALCULATION OF GRADING. THESE QUANTITIES DO NOT INCLUDE TRENCH SPOILS, SHRINK OR SWELL FROM COMPACTING EFFORTS OR OTHER VARIABLES. THE CONTRACTOR SHALL DETERMINE HIS OWN EARTHWORK QUANTITIES AND BASE HIS BID ACCORDINGLY.

AREA OF DISTURBANCE = 1.78 ACRES

	Pre-Construction (sf)	Post-Construction (sf)
Pervious	77,537.0	70,242
Impervious	0	7,295

NORTH

0 15 30 60 90

Scale 1" = 30 ft

LEGEND

12" AB OVER RECOMPACTED NATIVE SUB-BASE AS APPROVED BY GEOTECHNICAL ENGINEER

PAVEMENT PER SANTA CLARA COUNTY STANDARD DETAIL DETAIL DWG. NO. B/4

*NOTE: PROJECT DOES NOT NEED TO MEET POST CONSTRUCTION STORM WATER MANAGEMENT REQUIREMENTS. PROJECT DOES NOT CREATE MORE THAN 2,500 SF OF IMPERVIOUS SURFACE. STORM WATER QUALITY FOR FUTURE AG. BUILDING TO BE IMPLEMENTED WITH FUTURE IMPROVEMENTS.

10' WIDE UTILITY EASEMENT

NEW SWALE TO CONFORM TO EXISTING SWALE FLOWLINE

6' MIN. BENCH PER GEOTECHNICAL ENGINEER RECOMMENDATIONS

DRIVEWAY APPROACH WITH VALLEY GUTTER PER SANTA CLARA COUNTY STANDARD DETAIL DWG. NO. B/4

10'X6' ENERGY DISSIPATOR W/ 4"-6" RIP RAP, LINE WITH FILTER FABRIC PER 2015 CALTRANS SPEC 96-1.02I OR APPROVED EQUAL

FES IE 1105.00

PROVIDE KEYWAY AND BENCHING FOR FILL SLOPE PER GEOTECHNICAL ENGINEER RECOMMENDATIONS

APPROXIMATE GRADING LIMITS

10'X6' ENERGY DISSIPATOR W/ 4"-6" RIP RAP, LINE WITH FILTER FABRIC PER 2015 CALTRANS SPEC 96-1.02I OR APPROVED EQUAL

APPROXIMATE GRADING LIMITS

FUTURE AG. BUILDING PAD PAD=1130.0

25'

75'

5.55%

5.40%

9.81%

10.68%

14.06%

8.07%

5% MIN.

12" CULVERT IE 1109.75

NEW 16' WIDE GATE SETBACK 30' MIN. FROM EDGE OF NEW PAVEMENT PER COUNTY STANDARD DETAIL DWG. NO. B/4 PROVIDE FIRE DEPARTMENT KNOX BOX PER SANTA CLARA COUNTY FIRE DEPARTMENT SPECIFICATION K-1

4' V-DITCH FOR HILLSIDE DRAINAGE (TYP) 1 C3

APPROXIMATE GRADING LIMITS

CONTRACTOR TO VERIFY COUNTY REQUIREMENTS FOR WORK WITHIN RIGHT OF WAY

10'X6' ENERGY DISSIPATOR W/ 4"-6" RIP RAP, LINE WITH FILTER FABRIC PER 2015 CALTRANS SPEC 96-1.02I OR APPROVED EQUAL

4' V-DITCH FOR HILLSIDE DRAINAGE (TYP) 1 C3

TURN AROUND AREA PER COUNTY OF SANTA CLARA SD-16

FUTURE TRANSFORMER PAD ELEVATION=1152.0

EXISTING WELL

EXISTING (2) - 5000 GAL FIRE PROTECTION TANKS

EXISTING 4" PG&E ELECTRICAL CONDUIT

APPROXIMATE GRADING LIMITS

10' WIDE UTILITY EASEMENT

CANADA ROAD

NO.	REVISION	BY

NO.	REVISION	BY
	2022.11.30 - 1ST AE SUBMITTAL	SBV

REGISTERED PROFESSIONAL ENGINEER
STEVEN M. CALCAGNO
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11/30/2022
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STATE OF CALIFORNIA

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GRADING & DRAINAGE PLAN
OF
5173 CANADA ROAD
FOR
CARTER LIVESTOCK
GILROY, CALIFORNIA

DATE	OCTOBER, 2024
SCALE	1" = 30'
DESIGNER	SS
JOB NO.	A15702
SHEET	C1
OF	5 SHEETS

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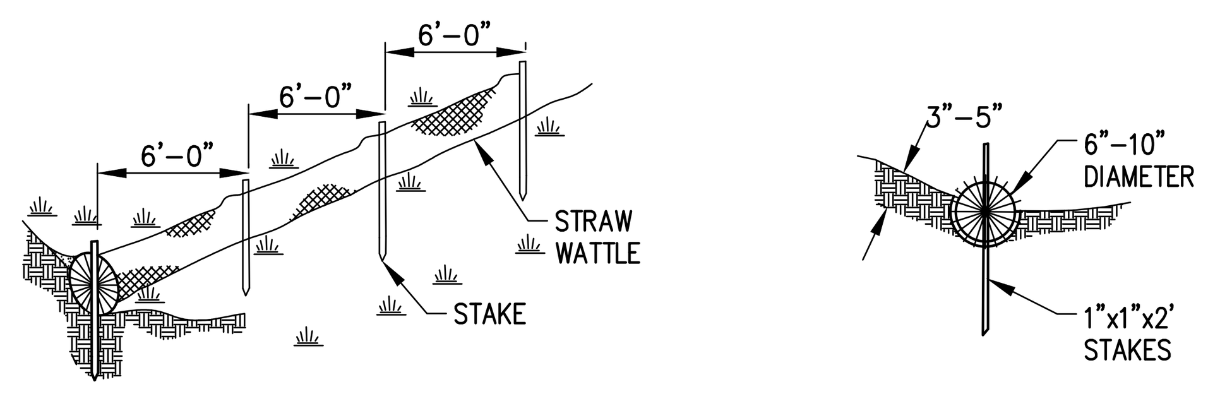
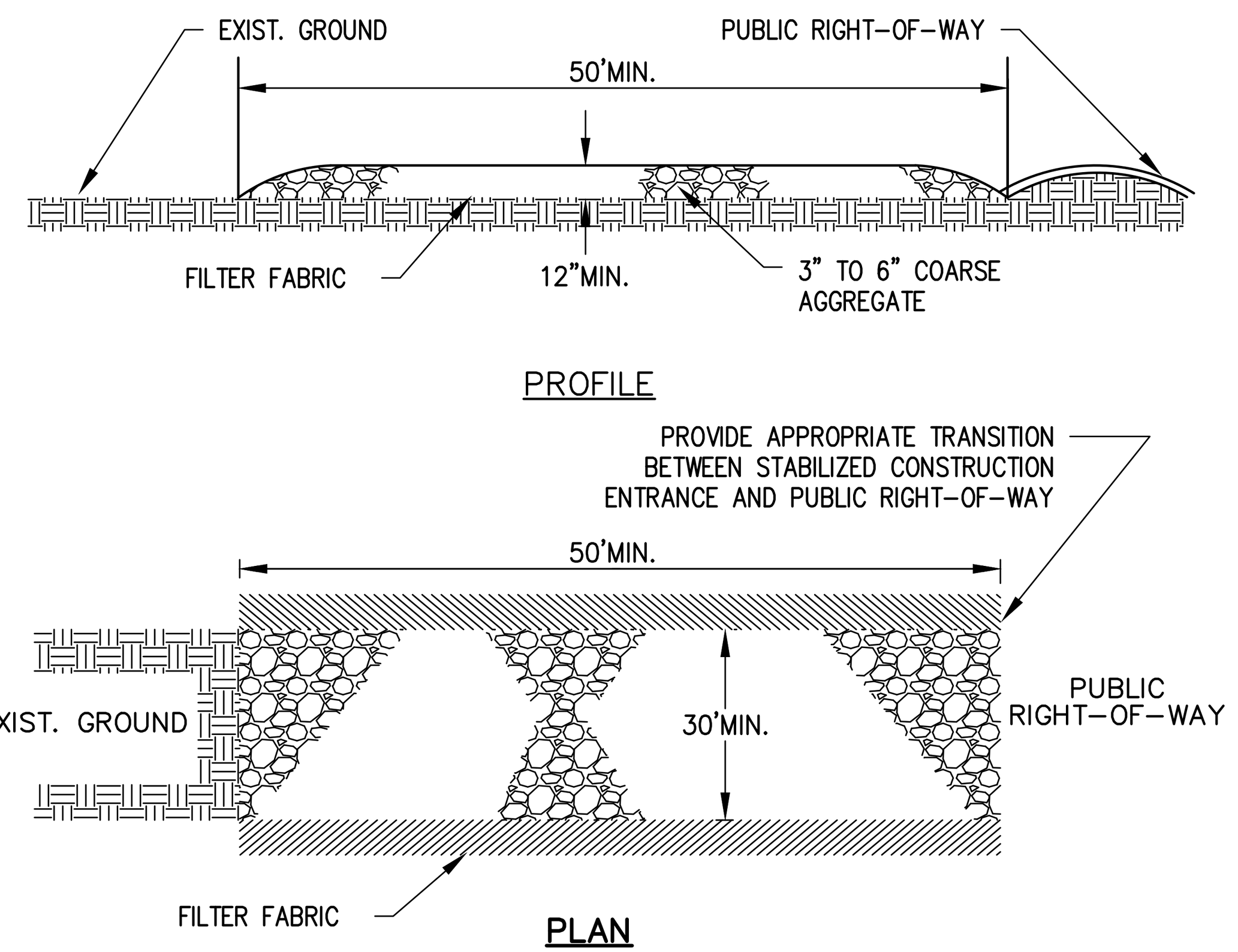


NOTE:

1. STRAW WATTLES ARE TUBES MADE FROM STRAW BOUND W/BIO-DEGRADABLE NETTING. THEY ARE APPROX. 6"-10" DIA AND 20-30 FT LONG.
2. STRAW WATTLES TRAP SEDIMENT AND REDUCE SHEET AND HILL EROSION BY REDUCING SLOPE GRADIENT. INCREASING INFILTRATION RATES AND BY PRODUCING A FAVORABLE ENVIRONMENT FOR PLANT ESTABLISHMENT.
3. STRAW WATTLE INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE WATTLE IN A TRENCH 3"-5" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND WATTLE.

STRAW WATTLE SEDIMENT TRAP/FILTER (1)

NOT TO SCALE



STABILIZED CONSTRUCTION ENTRANCE (2)

NOT TO SCALE

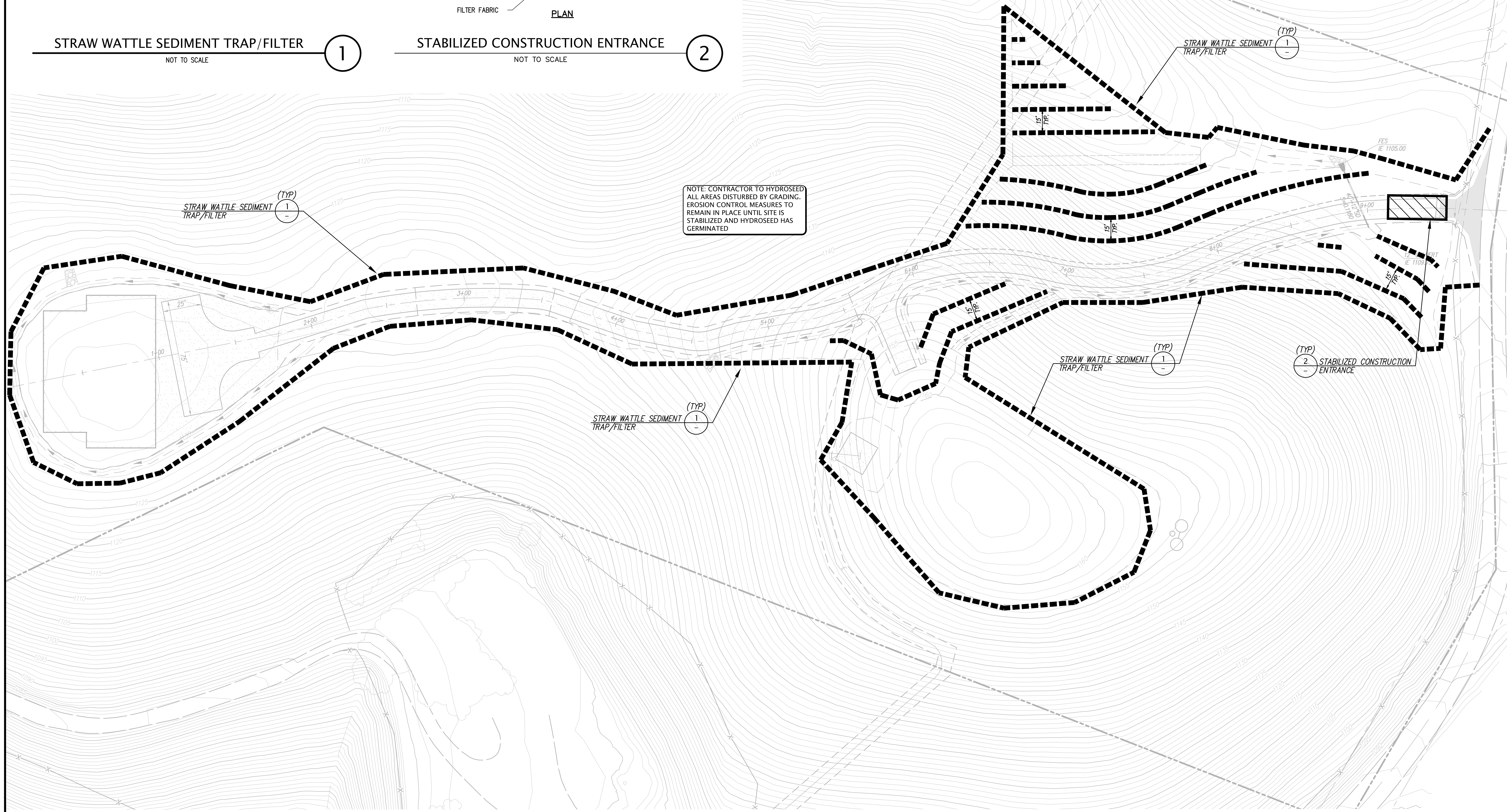
NORTH

0 15 30 60 90

Scale 1" = 30 ft

LEGEND

- - - - (dashed line)	1
(hatched box)	2



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REGISTERED PROFESSIONAL ENGINEER STEVEN M. CALCAGNO No. 62732 11/30/2022 CIVIL STATE OF CALIFORNIA

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Livermore, California 94551
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Fax (925) 245-8796

EROSION CONTROL PLAN OF 5173 CANADA ROAD FOR CARTER LIVESTOCK

GILROY, CALIFORNIA

DATE	OCTOBER, 2024
SCALE	1" = 30'
DESIGNER	SS
JOB NO.	A15702
SHEET	C2
OF	5 SHEETS

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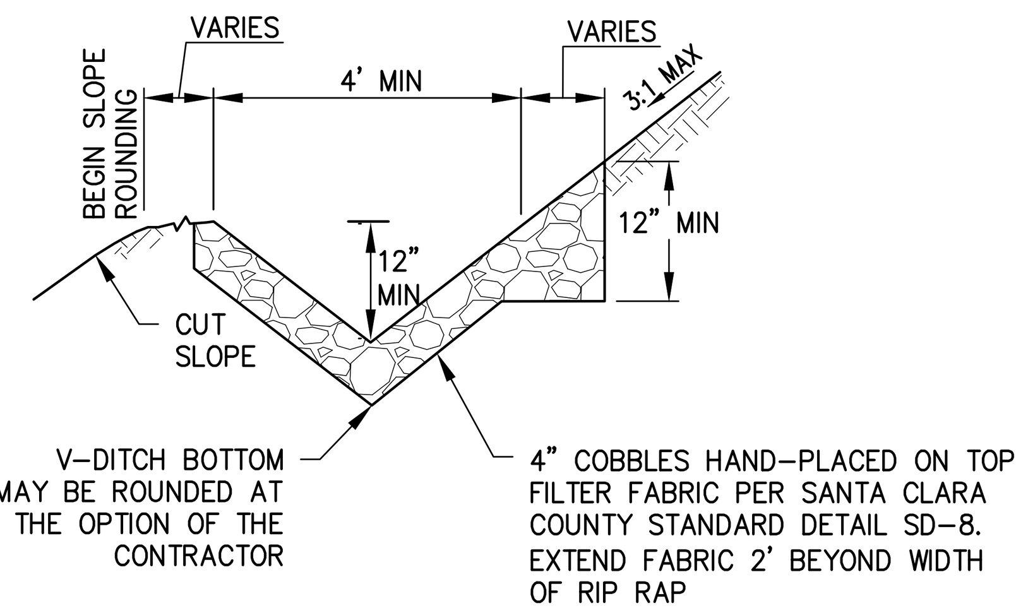
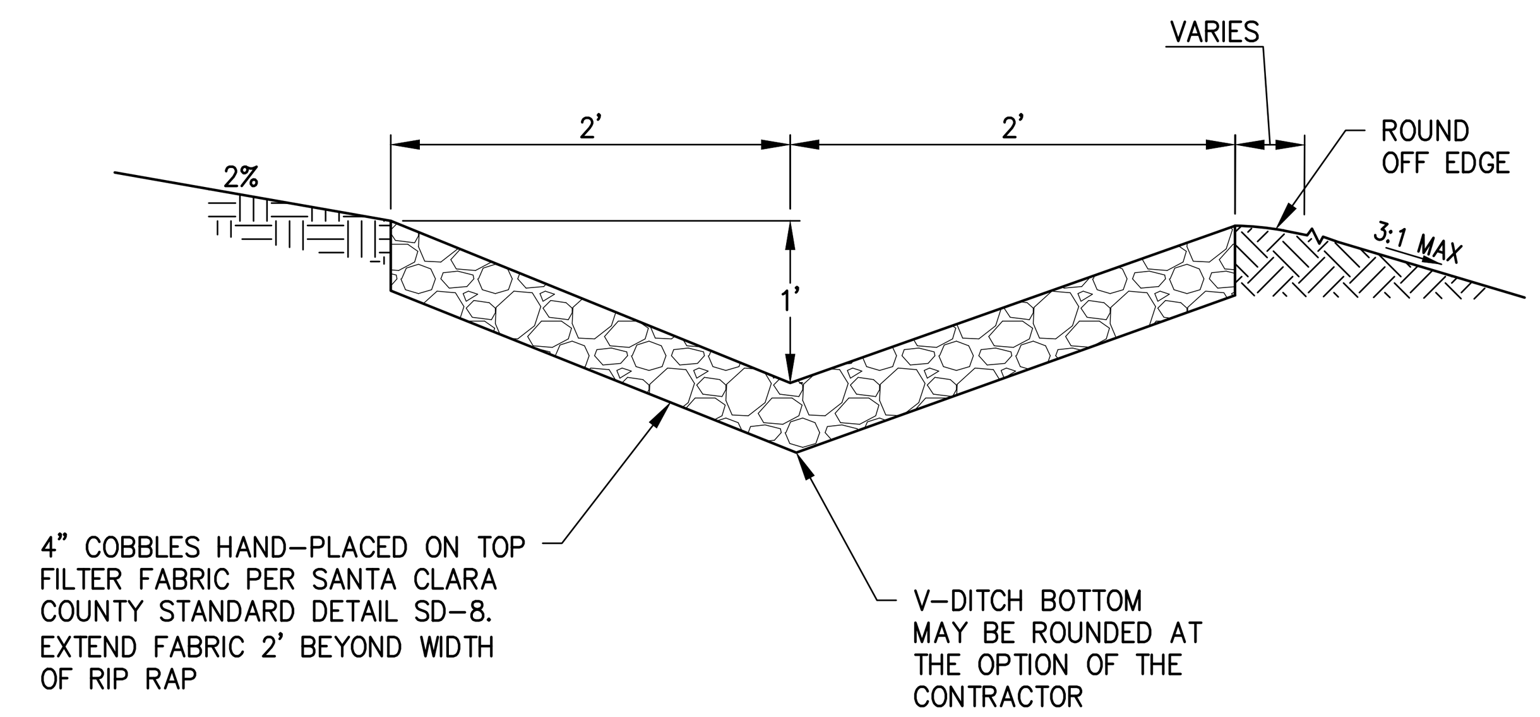
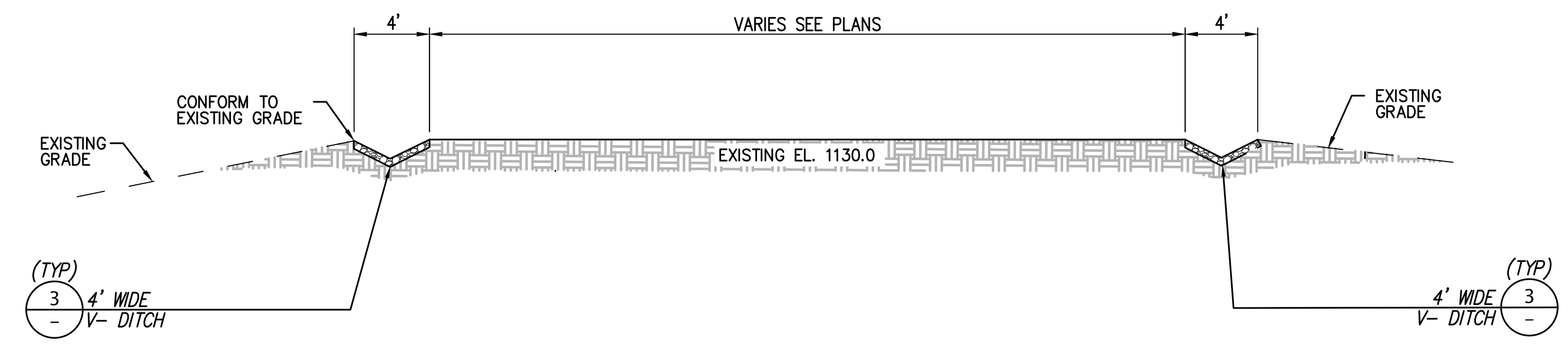


V- DITCH (1)
NOT TO SCALE

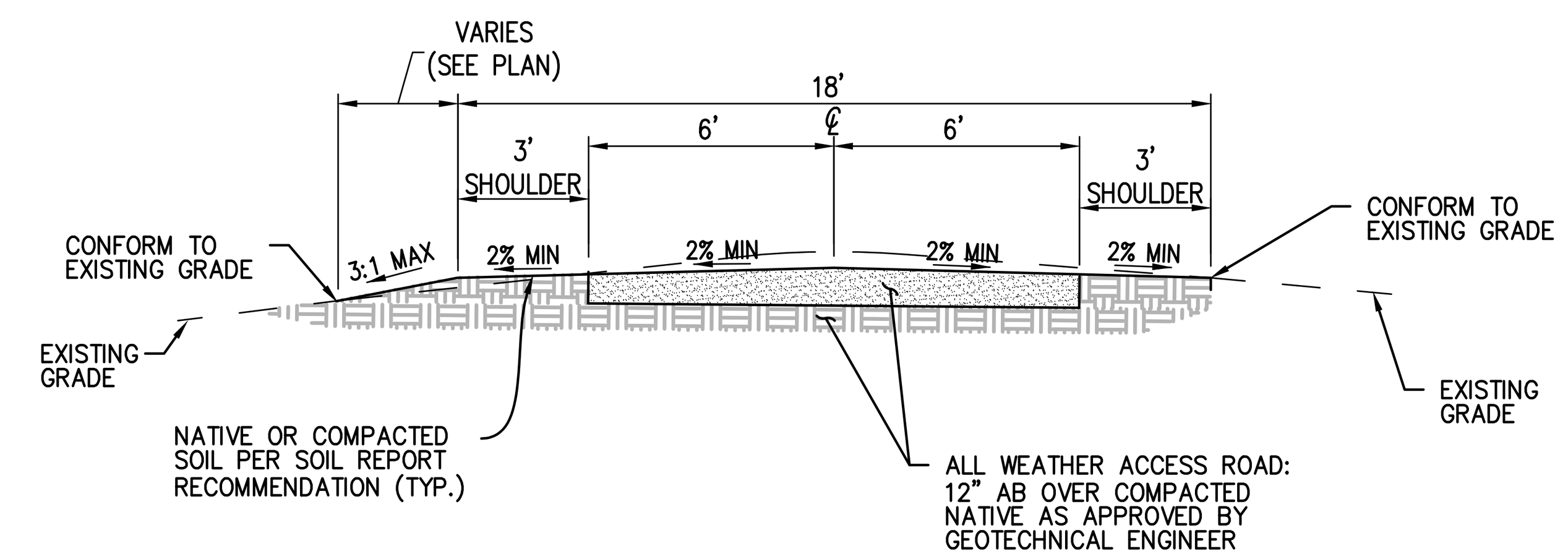
NOTES
1. LONGITUDINAL SLOPE OF LINED DITCH SHALL BE 2% MINIMUM.
2. OVER SLOPE DOWN DITCHES SHALL EMPLOY 12" THICKENED EDGE AT BOTH SIDES OF DITCH



V-DITCH (3)
NOT TO SCALE



SECTION (A)
NOT TO SCALE



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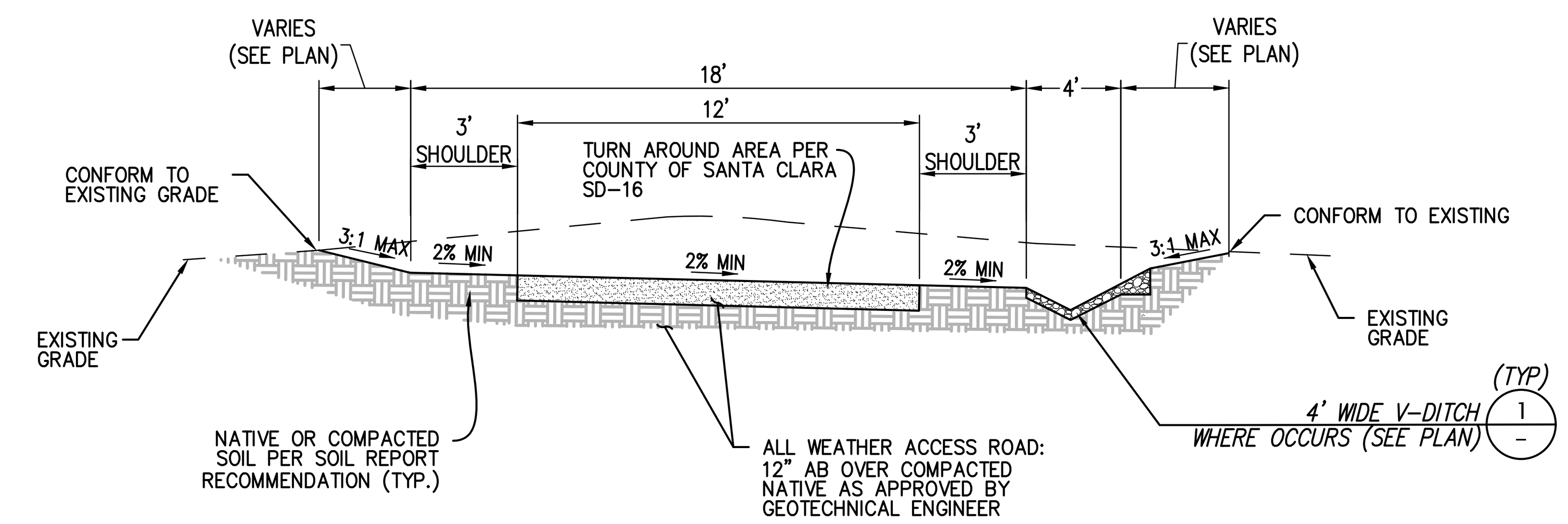
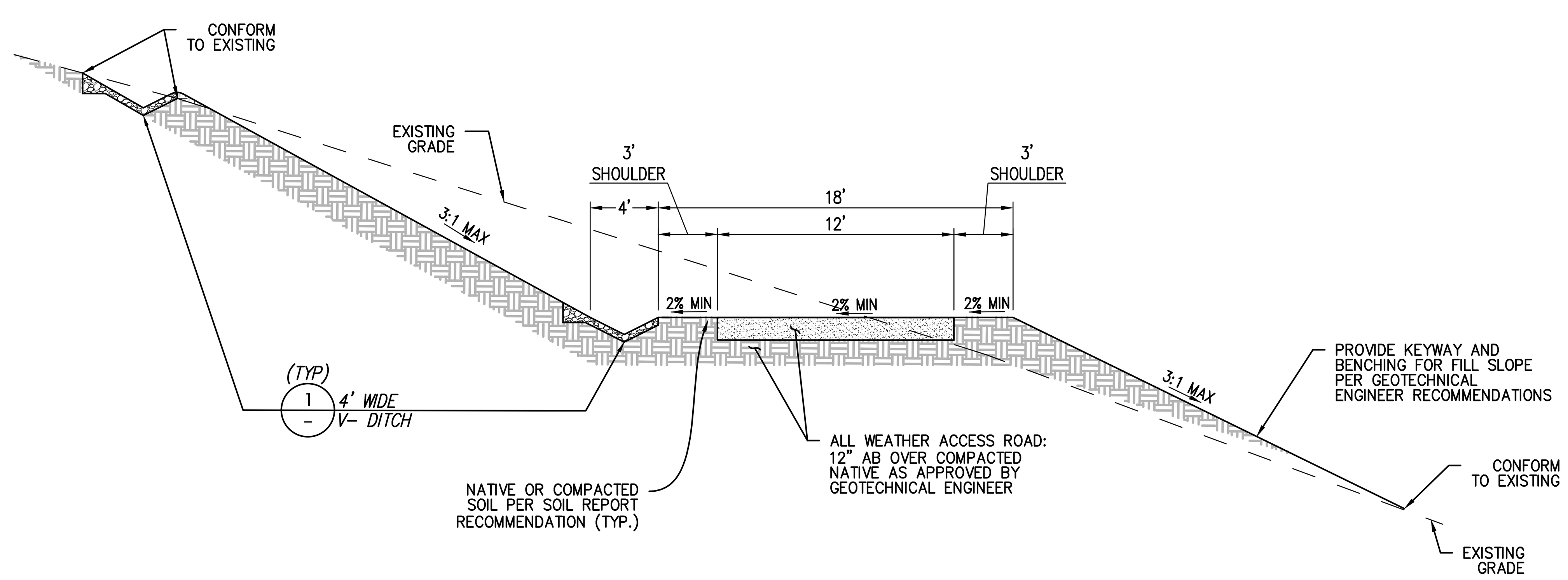


SECTION (C)
NOT TO SCALE

NOT USED (2)
NOT TO SCALE



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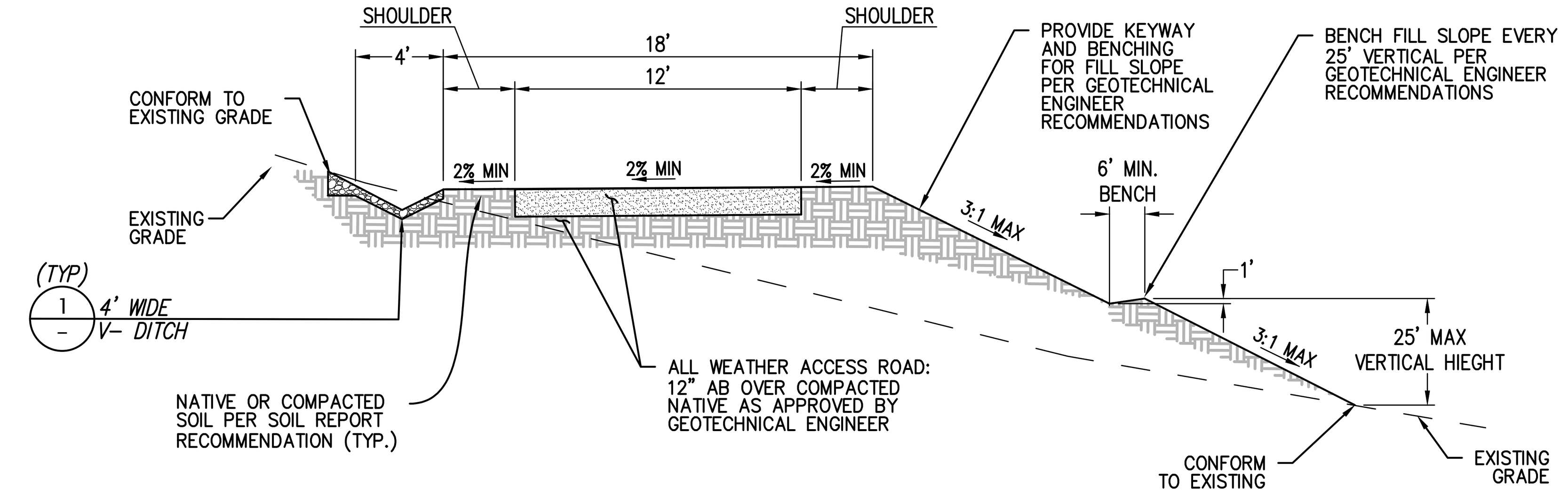

SECTION (E)
NOT TO SCALE

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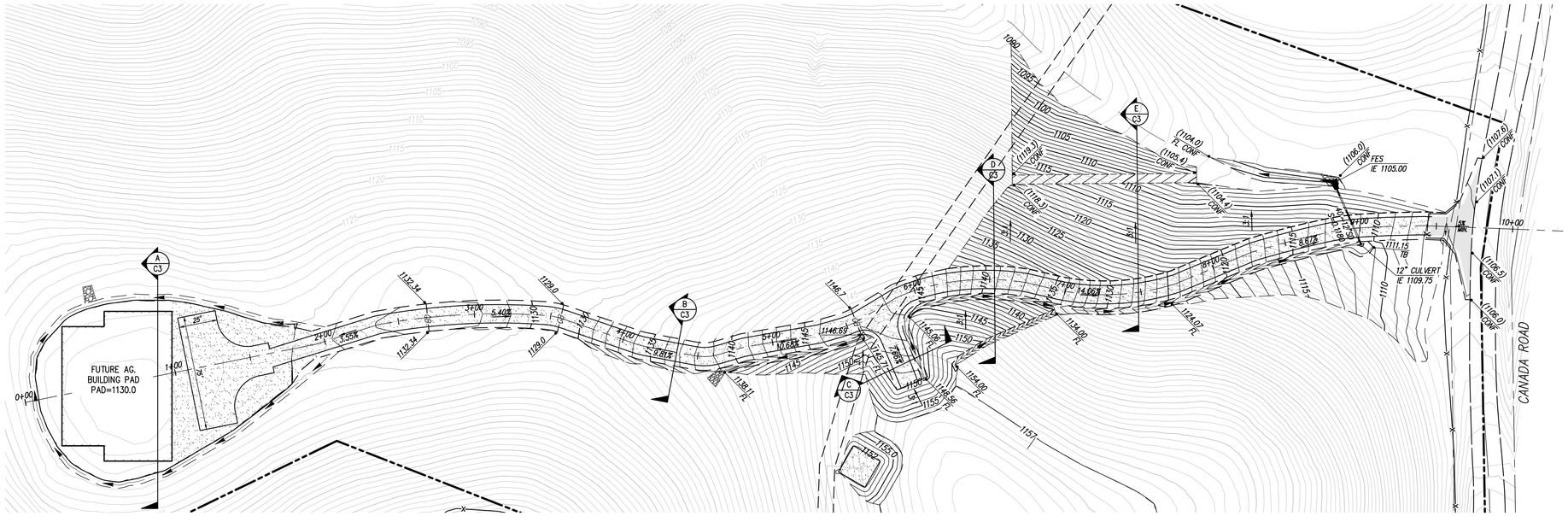
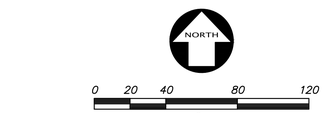
SECTIONS AND DETAILS
OF
5173 CANADA ROAD
FOR
CARTER LIVESTOCK
GILROY, CALIFORNIA

DATE	OCTOBER, 2024
SCALE	AS SHOWN
DESIGNER	SS
JOB NO.	A15702
SHEET	C3
OF 5	SHEETS





LEGEND

PROPOSED	EXISTING	
		ASPHALT BERM
		BLOCK/RETAINING WALL
		BUILDING LINE
		CENTER LINE
		CONCRETE CURB
		CONCRETE CURB CUT
		CONCRETE CURB & GUTTER
100	100	CONTOUR LINE
		DRIVEWAY
		EDGE OF PAVEMENT
		FLUSH CONCRETE CURB
		FENCE LINE
GB	GB	GRADE BREAK LINE
		GUARD RAIL
		LOT LINE
		MONUMENT/MONUMENT LINE
PERF. PIPE		PERFORATED STORM DRAIN PIPE
		PROPERTY LINE
RWL	RWL	RAINWATER LEADER
R	R	RIDGE LINE
		SIDEWALK
SD	SD	STORM DRAIN-MANHOLE & CATCH BASIN
		THRU CURB DRAIN
100.00	+100.00	SPOT ELEVATION
T	T	TRANSFORMER
		TRAFFIC SIGN
		TREE
		UTILITY BOX
AD	AD	AREA DRAIN
BVCE	BVCE	BEGINNING VERTICAL CURVE ELEVATION
BVCS	BVCS	BEGINNING VERTICAL CURVE STATION
BW	BW	BACK OF WALK
BLDG	BLDG	BUILDING
BL	BL	BUILDING LINE
CB	CB	CATCH BASIN
COTG	COTG	CLEANOUT TO GRADE
C	C	CONCRETE
DR	DR	DOOR
DS	DS	DOWN SPOUT
DIP	DIP	DUCTILE IRON PIPE
ESMT	ESMT	EASEMENT
EVCE	EVCE	END VERTICAL CURVE ELEVATION
EVCS	EVCS	END VERTICAL CURVE STATION
EW	EW	EDGE OF WALK
FB	FB	FACE OF BERM
FC	FC	FACE OF CURB
FW	FW	FACE OF WALL
FF	FF	FINISHED FLOOR
FL	FL	FLOW LINE
GB	GB	GRADE BREAK
HP	HP	HIGH POINT
IE	IE	INVERT ELEVATION
K	K	K VALUE
LP	LP	LOW POINT
LT	LT	LIGHT
LVC	LVC	LENGTH OF VERTICAL CURVE
OF	OF	OVERFLOW
OD	OD	OVERFLOW DRAIN
PV	P	PAVEMENT
POC	POC	POINT OF CONNECTION
PVI	PVI	POINT OF VERTICAL INTERSECTION
RWL	RWL	RAINWATER LEADER
R	R	RIDGE
RE	RE	RIM ELEVATION
RD	RD	ROOF DRAIN
SL	SL	STREET LIGHT
SDJB	SDJB	STORM DRAIN JUNCTION BOX
SDMH	SDMH	STORM DRAIN MANHOLE
SWL	SWL	SWALE
TB	TB	TOP OF BERM
TC	TC	TOP OF CURB
TW	TW	TOP OF WALL
T	T	TRANSFORMER
TE	TE	TRASH ENCLOSURE

PROFILE
1" = 1' HORIZ.
1" = 0' VERT.

CUT
FILL

NO.	REVISION	BY

NO.	REVISION	BY
	2022.11.30 - 1ST AE SUBMITTAL	SBV

REGISTERED PROFESSIONAL ENGINEER
STEVEN M. CALCAGNO
No. 62732
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PLAN AND PROFILE
OF
5173 CANADA ROAD
FOR
CARTER LIVESTOCK
GILROY, CALIFORNIA

DATE	OCTOBER, 2024
SCALE	1" = 40'
DESIGNER	SS
JOB NO.	A15702
SHEET	C4
OF	5 SHEETS

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PROJECT SCOPE & RATIONALE:

This project is for a future new 3 BR residence.
A conventional design was selected due to sufficient area w/ slope less than 20% and acceptable depth to potential groundwater. The percolation test, witnessed by DEH, was conducted in the approximate area proposed for drainfields. No holes are excluded since precise locations are unknown and this is more conservative for sizing.

INFILTRATIVE AREA CALCULATIONS & SPECIFICATIONS

TYPE OF SEPTIC SYSTEM: Conventional Gravity Flow with Infiltration Chambers

DESIGN CALCULATIONS:	DRAINFIELD TRENCH SPECIFICATIONS:
Average Percolation Rate : **98 MPI** *(HOLES 1-9)*	Drainfield Dimensions: **3 ft width x 6 ft depth**
Design Application Rate: **0.2 gal/sq. ft./day**	High Cap Chamber Height: **1.2 ft**
Peak Wastewater Flow: **450 gpd** *(3BR)*	Slope in Drainfield Area: **< 20%**
Required Infiltrative Area: **2,250 ft²** (450 gpd/0.2 gpd/ft²)	Horizontal Drainfield Spacing: **6 ft o.c.** *(minimum)*
Infiltrative Area per Linear Ft Trench: **4 sq. ft.**	Depth to GW Below Trenches: **5 1/2 ft** *(SP2)*
Trench Length (each side DV*): **563 ft** (2,250 ft²/4 ft/ft²)	
Reduced length for chambers: **394 ft** (563 - 0.3x563)	

*DV=Diverter Valve — *Required Depth to GW: 5 ft*

Elevations, Pipe Runs & Slopes

(Features Listed in Order of Gravity Fill)

Feature	Invert Elevation (ft)	Pipe Length to Feature (ft)	Slope of Pipe Run (%)	Burial Depth
Future House FF	1157.00	—	—	—
Septic Tank Inlet	1127.25	500	**6.0**	**3.0 ft**
Septic Tank Outlet	1127.00	—	—	(to top of tank)
DF 1 drainpipe - Side A	1126.60	15	**2.7**	**4.9 ft**
DF 5 drainpipe - Side B	1122.60	85	**5.2**	**4.9 ft**

SOIL PROFILE RESULTS
CONVENTIONAL SYSTEMS

SR #: 864387 — DATE OF INSPECTION: 9/24/2020
APN #: 898-27-033 — OWNER:
APPLICANT: Carter
SITE ADDRESS: 5173 Canada Rd Gilroy
CONDUCTED BY: Chris Day — CHECKED BY: J Camp

HOLE #: SP1

- Dry silty loam w/ gravel
- Fractured sandstone
- Very dense silty clay
- Silty sandy clay
- Sandy clay - looser w/ fractured sandstone
- Increasing fractured sandstone
- Terminate @ 11' per consultant
- No signs of groundwater

HOLE #: SP2

- Same
- Silty sandy clay less sandstone
- Same
- Terminate @ 11'2 per consultant
- No signs of groundwater

COMMENTS:
(e) perc hole from Nov. 2000 located ~5ft depth
Hole constructed per SCC standards
Remaining 7 perc holes from 2000 not visible

Rev. 3/3/14

Environmental Concepts

	A	B	C	D	E	F	G	H	I
2	OWNER/APPLICANT: J. Edwards Co.				FILE #00-SCL-080				
3					SITE LOCATION: 4141 Canada Rd., Gilroy (PARCEL 2)				
4					APN: 898-27-18				
5					DATE: 11/28/00				
6									
7		Hole #		Stabilized		Adjusted			
8				Rate (MPI)	Adj. factor is 1.4	Rate (MPI)			
9		P1	11/9/00	246.00		~~247.20~~	DROPPED		
10		P2	"	120.00		~~168.00~~	DROPPED		
11		P3	"	24.00		33.60			
12		P4	"	24.00		33.60			
13		P5	"	33.14		46.40			
14		P6	"	82.67		115.74			
15		P7	11/22/00	10.91		15.27			
16		P8	"	22.55		31.57			
17		P9	"	62.00		86.80			
18									
19		AVERAGE (7 TESTS)				51.85			
20									
21		DRAINFIELD REQUIREMENTS (typ. 4 bedrooms) =				=			

The average of all 9 perc test holes is used for the design since the precise hole locations are unknown.
AVERAGE DESIGN PERCOLATION RATE = 98 MPI

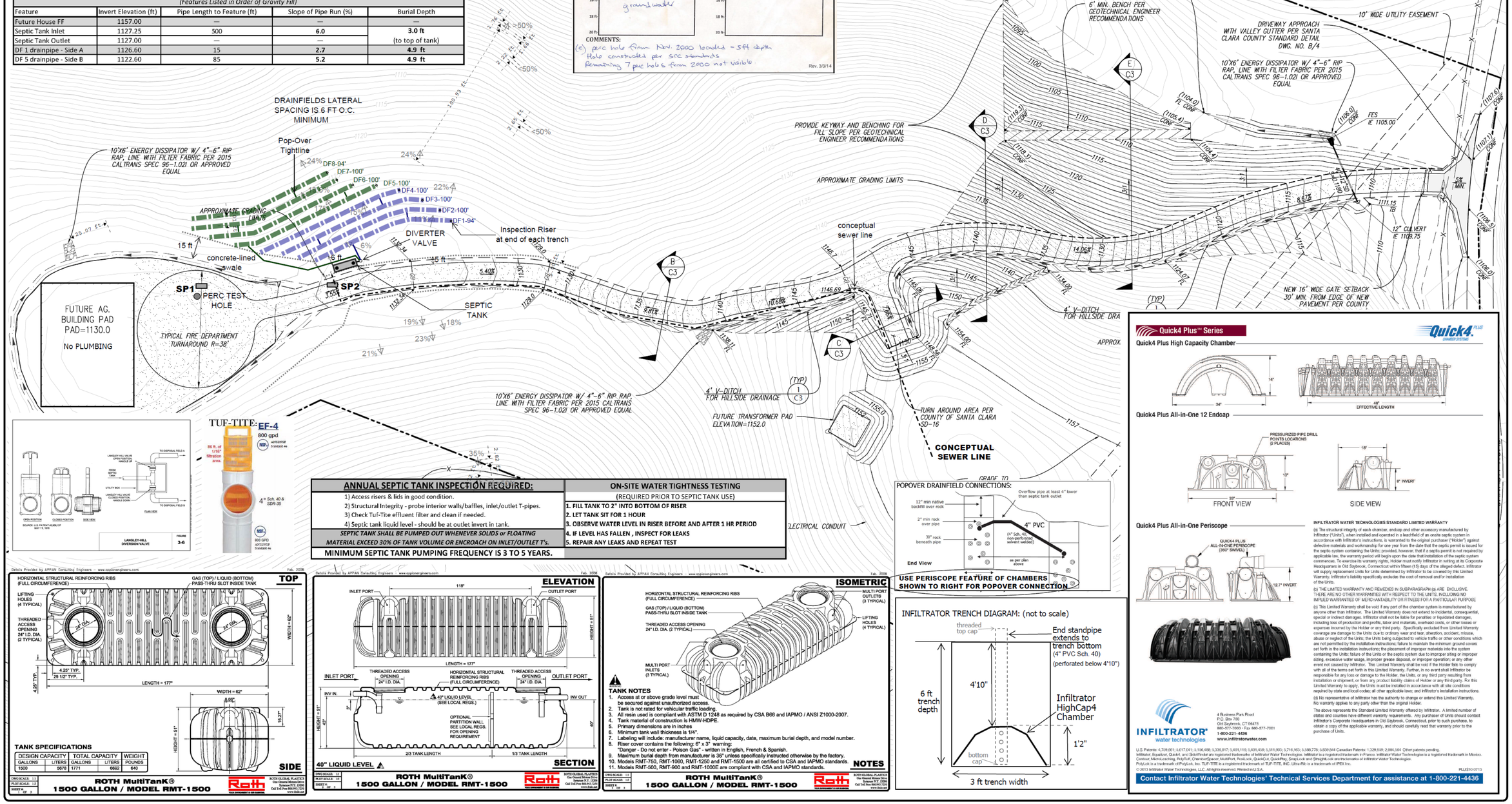
NORTH

0 15 30 60 90
Scale 1" = 30 ft

LEGEND

- 12" AB OVER RECOMPACTED NATIVE SUB-BASE AS APPROVED BY GEOTECHNICAL ENGINEER
- PAVEMENT PER SANTA CLARA COUNTY STANDARD DETAIL DETAIL DWG. NO. B/4

*NOTE: PROJECT DOES NOT NEED TO MEET POST CONSTRUCTION STORM WATER MANAGEMENT REQUIREMENTS. PROJECT DOES NOT CREATE MORE THAN 2,500 SF OF IMPERVIOUS SURFACE. STORM WATER QUALITY FOR FUTURE AG. BUILDING TO BE IMPLEMENTED WITH FUTURE IMPROVEMENTS.



TUF-TITE: EF-4 800 gpd
NSF/ANSI Standard 46
86 ft² of 1/16" filtration area.
4" Sch. 40 & SDR-35
NSF
800 GPD ANSI/NSF Standard 46

ANNUAL SEPTIC TANK INSPECTION REQUIRED:

1) Access risers & lids in good condition.
2) Structural Integrity - probe interior walls/baffles, inlet/outlet T-pipes.
3) Check Tuf-Tite effluent filter and clean if needed.
4) Septic tank liquid level - should be at outlet invert in tank.

SEPTIC TANK SHALL BE PUMPED OUT WHENEVER SOLIDS or FLOATING MATERIAL EXCEED 30% OF TANK VOLUME OR ENCROACH ON INLET/OUTLET T's.

MINIMUM SEPTIC TANK PUMPING FREQUENCY IS 3 TO 5 YEARS.

ON-SITE WATER TIGHTNESS TESTING

(REQUIRED PRIOR TO SEPTIC TANK USE)

1. FILL TANK TO 2" INTO BOTTOM OF RISER
2. LET TANK SIT FOR 1 HOUR
3. OBSERVE WATER LEVEL IN RISER BEFORE AND AFTER 1 HR PERIOD
4. IF LEVEL HAS FALLEN , INSPECT FOR LEAKS
5. REPAIR ANY LEAKS AND REPEAT TEST

POPOVER DRAINFIELD CONNECTIONS:

USE PERISCOPE FEATURE OF CHAMBERS SHOWN TO RIGHT FOR POPOVER CONNECTION

INFILTRATOR TRENCH DIAGRAM: (not to scale)

Quick4 Plus™ Series — Quick4 PLUS CHAMBER SYSTEMS

Quick4 Plus High Capacity Chamber

Quick4 Plus All-in-One 12 Endcap

Quick4 Plus All-in-One Periscope

INFILTRATOR WATER TECHNOLOGIES STANDARD LIMITED WARRANTY

(a) The structural integrity of each chamber, endcap and other accessory manufactured by Infiltrator ("Units"), when installed and operated in a leachfield of an onsite septic system in accordance with Infiltrator's instructions, is warranted to the original purchaser ("Holder") against defective materials and workmanship for one year from the date that the septic permit is issued for the septic system containing the Units; provided, however, that if a septic permit is not required by applicable law, the warranty period will begin upon the date that installation of the septic system commences. To exercise its warranty rights, Holder must notify Infiltrator in writing at its Corporate Headquarters in Old Saybrook, Connecticut within fifteen (15) days of the alleged defect. Infiltrator will supply replacement Units for Units determined by Infiltrator to be covered by this Limited Warranty. Infiltrator's liability specifically excludes the cost of removal and/or installation of the Units.

(b) THE LIMITED WARRANTY AND REMEDIES IN SUBPARAGRAPH (a) ARE EXCLUSIVE. THERE ARE NO OTHER WARRANTIES WITH RESPECT TO THE UNITS, INCLUDING NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

(c) This Limited Warranty shall be void if any part of the chamber system is manufactured by anyone other than Infiltrator. The Limited Warranty does not extend to incidental, consequential, special or indirect damages. Infiltrator shall not be liable for penalties or liquidated damages, including loss of production and profits, labor and materials, overhead costs, or other losses or expenses incurred by the Holder or any third party. Specifically excluded from Limited Warranty coverage are damage to the Units due to ordinary wear and tear, alteration, accident, misuse, abuse or neglect of the Units; the Units being subjected to vehicle traffic or other conditions which are not permitted by the installation instructions; failure to maintain the minimum ground covers set forth in the installation instructions; the placement of improper materials into the system containing the Units; failure of the Units or the septic system due to improper siting or improper sizing, excessive water usage, improper grease disposal, or improper operation; or any other event not caused by Infiltrator. This Limited Warranty shall be void if the Holder fails to comply with all of the terms set forth in this Limited Warranty. Further, in no event shall Infiltrator be responsible for any loss or damage to the Holder, the Units, or any third party resulting from installation or shipment, or from any product liability claims of Holder or any third party. For this Limited Warranty to apply, the Units must be installed in accordance with all site conditions required by state and local codes; all other applicable laws; and Infiltrator's installation instructions.

(d) No representative of Infiltrator has the authority to change or extend this Limited Warranty. No warranty applies to any party other than the original Holder.

The above represents the Standard Limited Warranty offered by Infiltrator. A limited number of states and counties have different warranty requirements. Any purchaser of Units should contact Infiltrator's Corporate Headquarters in Old Saybrook, Connecticut, prior to such purchase, to obtain a copy of the applicable warranty, and should carefully read that warranty prior to the purchase of Units.

INFILTRATOR water technologies
4 Business Park Road
P.O. Box 768
Old Saybrook, CT 06475
860-577-7000 • Fax 860-577-7001
1-800-221-4436
www.infiltratorwater.com

PLUS10 0713

Contact Infiltrator Water Technologies' Technical Services Department for assistance at 1-800-221-4436

PLAN BY: Christopher Day, REHS
P.O. Box 26 Redwood City, CA 94064
Tel. 650-293-1045
Email: christopherday@aol.com

ORIG: 17 Apr 21
REV 1:
REV 2:

OWNER:
Steve Carter
Tel. 678-427-1888
Email: warbirdman@comcast.net

5173 Canada Rd., Gilroy, CA 95020
APN 898-27-033 (SR0864387)

GRADING & DRAINAGE PLAN OF 5173 CANADA RD.

NEW CONVENTIONAL SEPTIC SYSTEM
To Serve Future 3 BR House

SITE PLAN

OWTS 1

DATE
SCALE
DESIGNER
JOB NO.
SHEET 2
OF 5

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