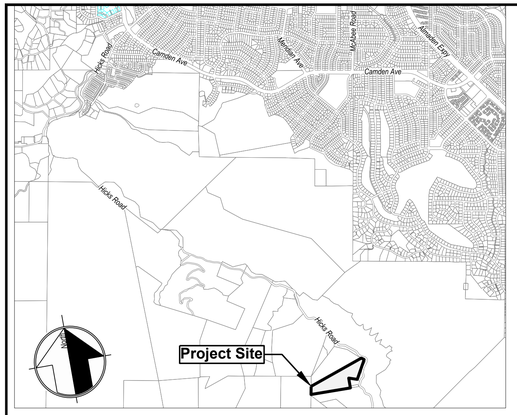
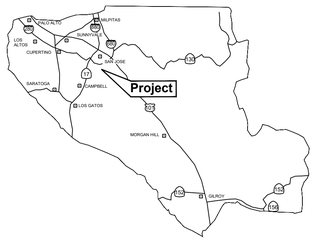


Vicinity Map



COUNTY LOCATION MAP

④ Tree Removal Schedule
near proposed improvemets:

#	Tree Type
1	38" Live Oak
1	26" Live Oak
1	6" Live Oak
2	15" Ornamental Palm
1	12" Ornamental Palm
1	6" Ornamental Palm

Applicant/Owner:
Hicks Land LLC
3323 Surry Place
Fremont, CA 94536

Engineer:
Harinder Singla LS8347, RCE 49717
MH Engineering
16075 Vineyard Blvd.
Morgan Hill, CA 95037
408.779.7381
harrys@mhengineering.com

Project Information:

APN 575-11-009 & 024	
Present Use:	Vacant
Proposed Use:	Residential
Present Zoning:	HS-d1-sr
Proposed Zoning:	HS-d1-sr
Sanitary Sewer:	Private On-Site System
Gas and Electric:	PG&E
Water:	Proposed Well
Telephone:	
Existing Improvements:	As Shown
Area:	23.95ac + 0.21ac (APN575-11-024)

Boundary Note: Property lines shown on this plan are based on the recorded Record of Survey Map, Book 932, pages 3-4

Flood Zone: The property lies wholly in Zone D, areas in which flood hazards are undetermined, but possible, per FEMA Firm Panel 06085C0629H, effective May 18, 2009.

LICENSED LAND SURVEYOR
HARINDER SINGLA
No. 8347
STATE OF CALIFORNIA

MH engineering Co.
16075 Vineyard Boulevard
Morgan Hill, CA. 95037

Site Plan - Hicks Land LLC Residence

21631 Hicks Road - APN 575-11-009

DATE: 12-2021
SCALE: As Shown
DRAWN BY: MM
CHECKED BY: HS

JOB NO.
217091

SHEET 1 OF 7

L:\Projects\Harry\217091-Hicks Lands LLC-Los Gatos\DWG\217091-S02 Site Plan (Proposed).dwg - 12/21/2021 4:23 PM - Plotted 12/21/2021 5:28 PM by Harinder Singla
Xrefs: 217091-LO Existing; 217091-LO New; 217091-Hatch

LICENSED LAND SURVEYOR
HARINDER SINGLA
No. 8347
STATE OF CALIFORNIA

MH engineering Co.
16075 Vineyard Boulevard
Morgan Hill, CA 95037

Site Plan - Hicks Land LLC Residence
21631 Hicks Road - APN 575-11-009

DATE: 12-2021
SCALE: As Shown
DRAWN BY: MM
CHECKED BY: HS

JOB NO.
217091

SHEET 2 OF 7

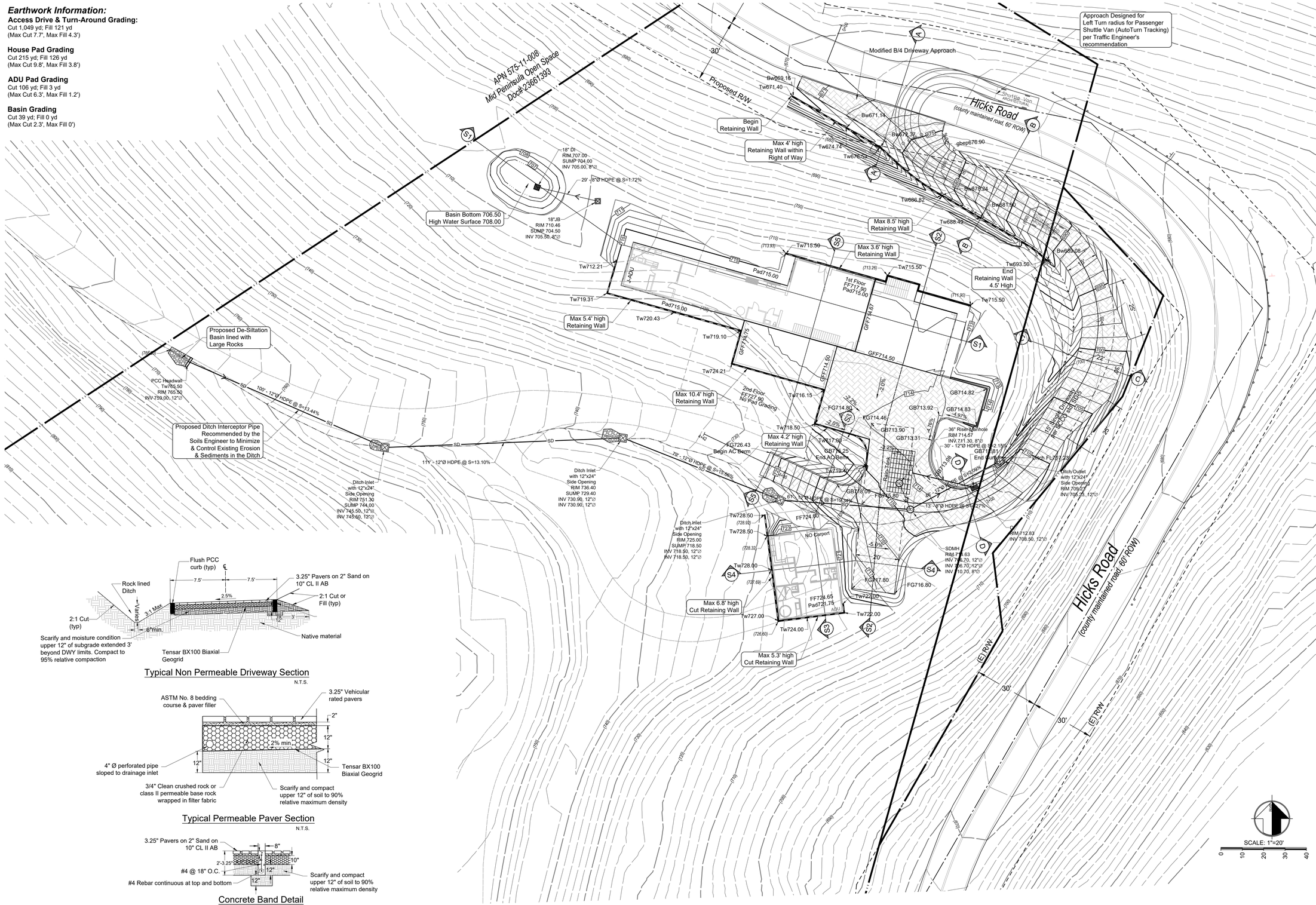
Earthwork Information:

Access Drive & Turn-Around Grading:
Cut 1,049 yd; Fill 121 yd
(Max Cut 7.7', Max Fill 4.3')

House Pad Grading
Cut 215 yd; Fill 126 yd
(Max Cut 9.8', Max Fill 3.8')

ADU Pad Grading
Cut 106 yd; Fill 3 yd
(Max Cut 6.3', Max Fill 1.2')

Basin Grading
Cut 39 yd; Fill 0 yd
(Max Cut 2.3', Max Fill 0')



Typical Non Permeable Driveway Section

N.T.S.

Typical Permeable Paver Section

N.T.S.

Concrete Band Detail

N.T.S.

Concrete band to be placed perpendicular to the path of travel every 20' on slopes greater than 10%.

REGISTERED PROFESSIONAL ENGINEER
HARVINDER S. NAGRA
C49717
STATE OF CALIFORNIA

MH engineering Co.
16075 Vineyard Boulevard
Morgan Hill, CA 95037

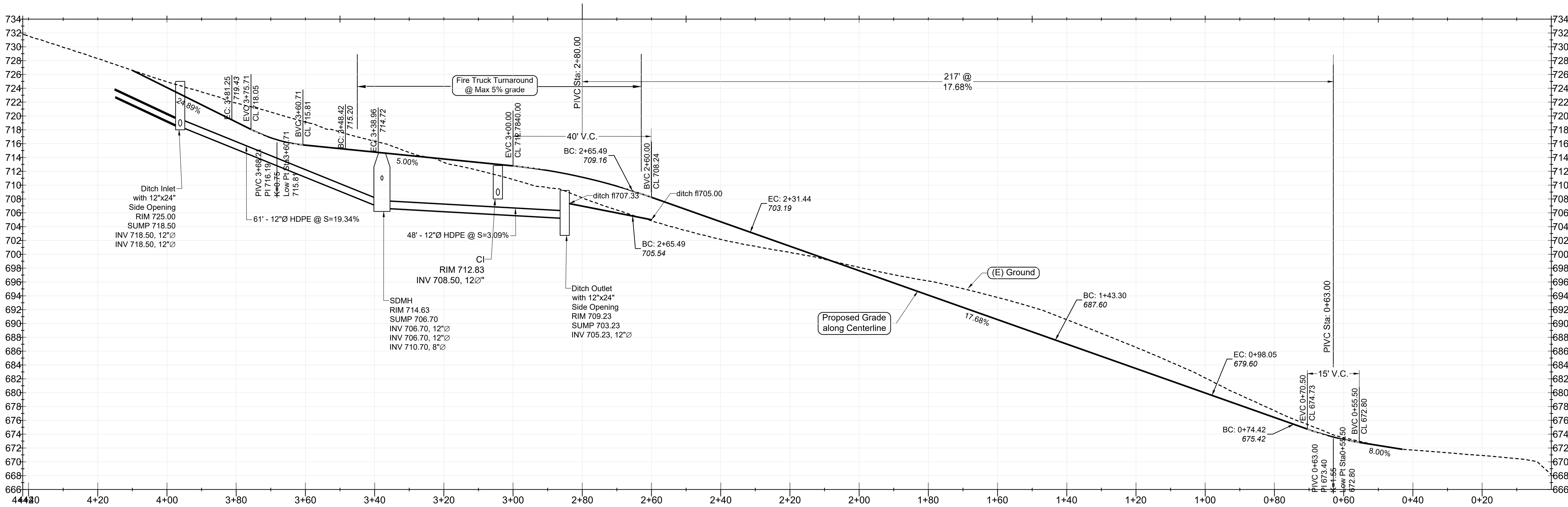
Prelim Grading & Drainage Plan

21631 Hicks Road - APN 575-11-009

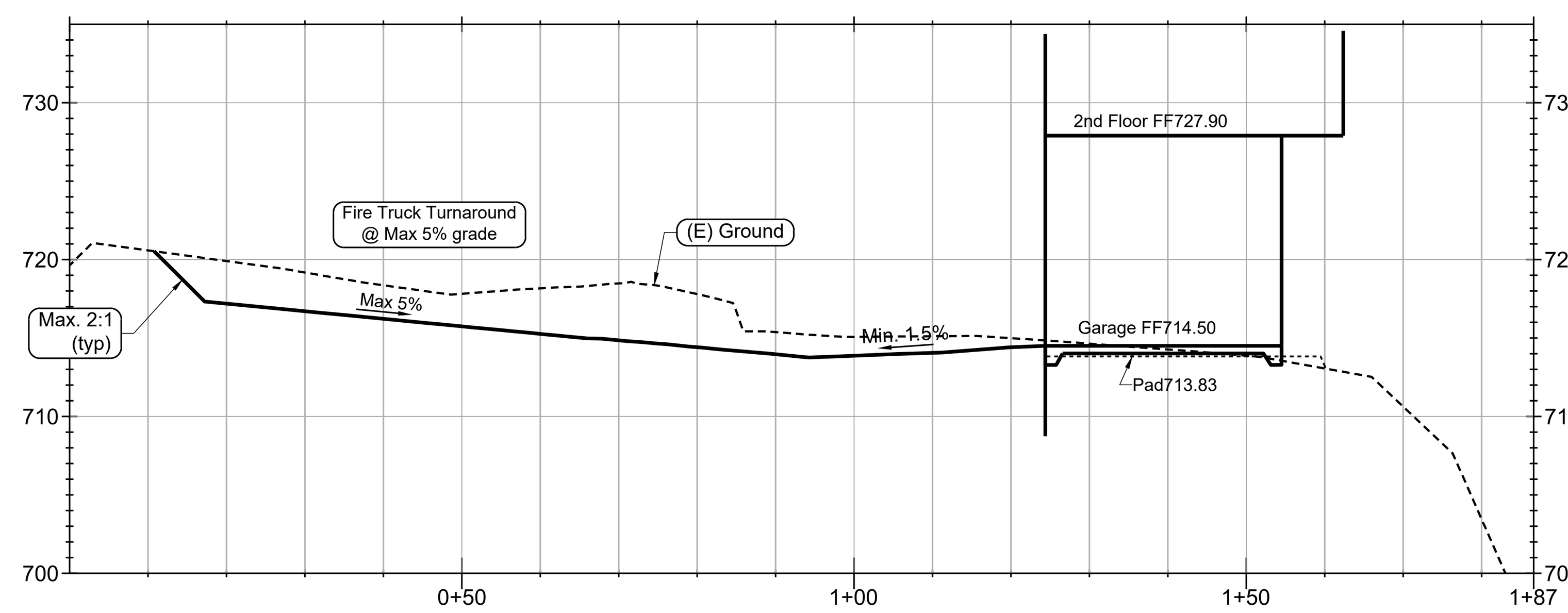
DATE:	12/2021
SCALE:	As Shown
DRAWN BY:	RS
CHECKED BY:	HS

JOB NO. 217091

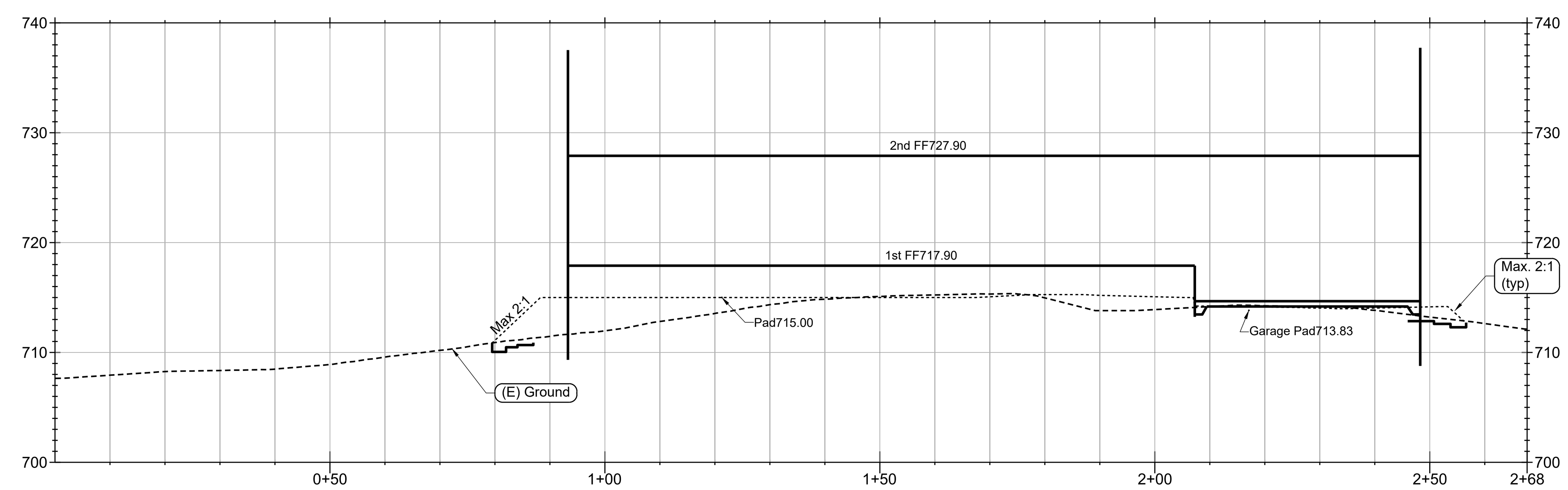
SHEET 3 OF 7



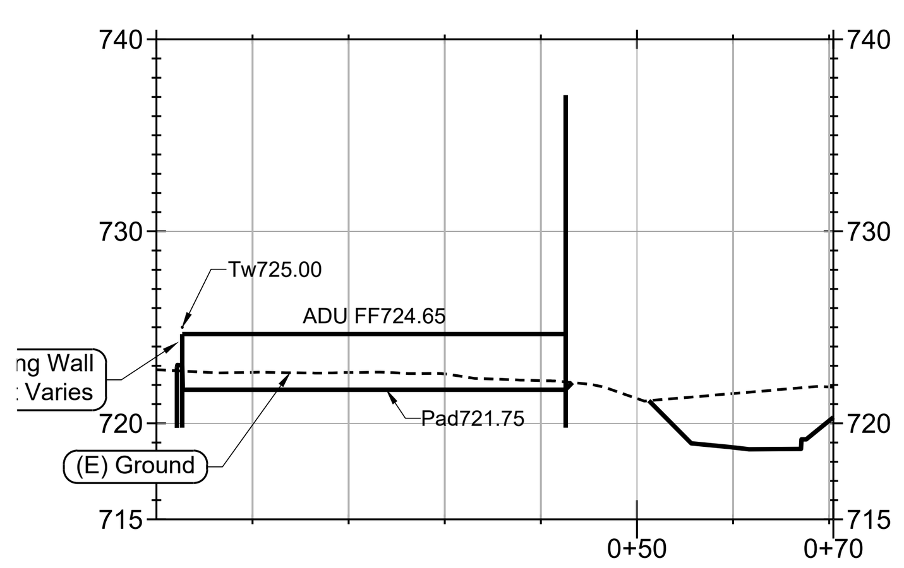
PROFILE: Site Access Drive
SCALE H: 1"=20' SCALE V: 1"=10'



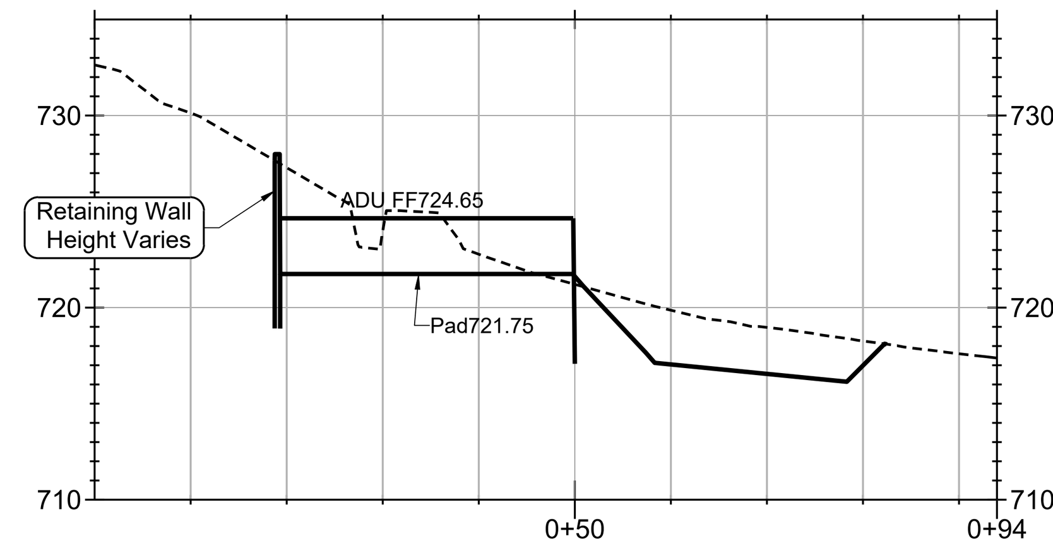
PROFILE: Grading Section S1
SCALE H: 1"=20' SCALE V: 1"=10'



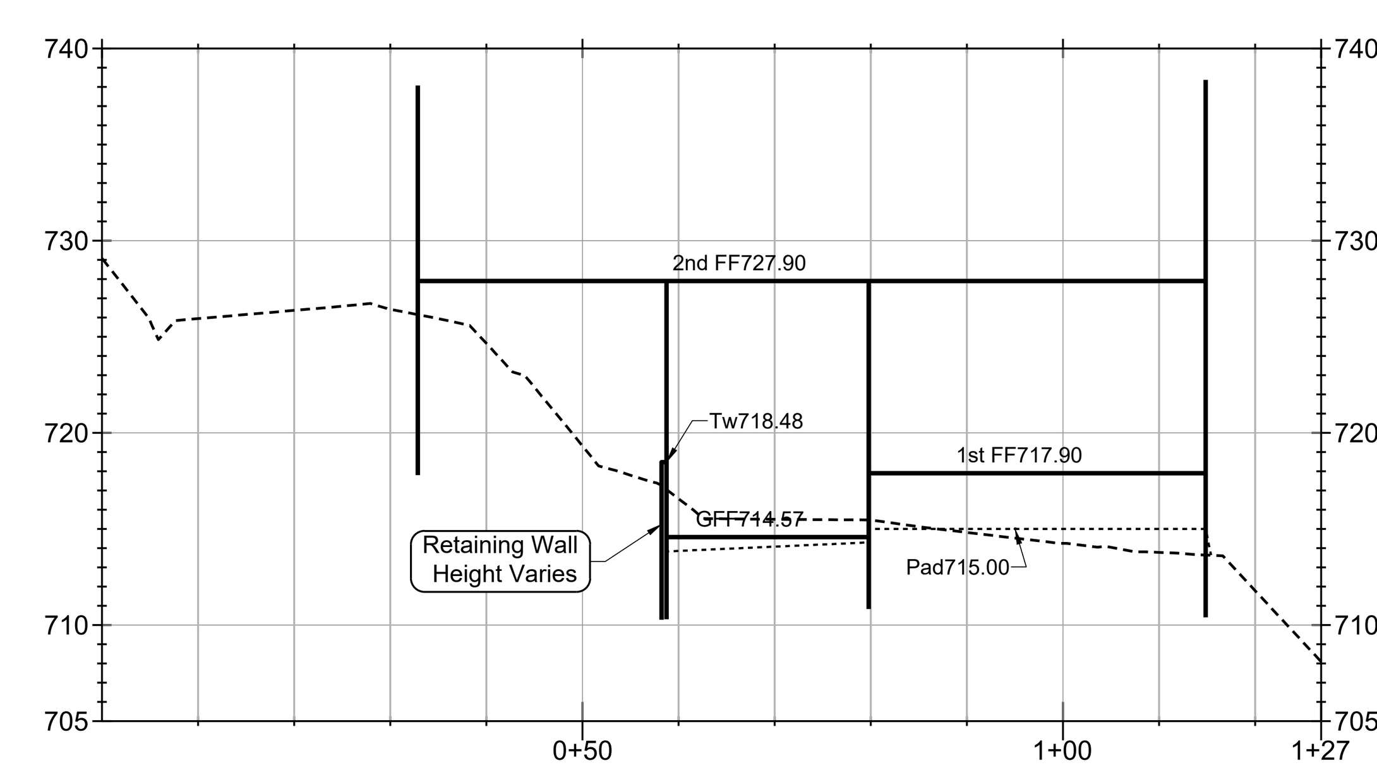
PROFILE: Grading Section S2
SCALE H: 1"=20' SCALE V: 1"=10'



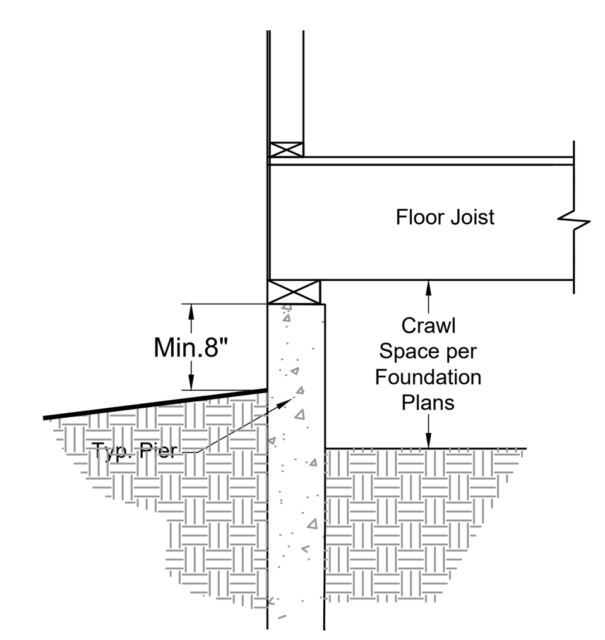
PROFILE: Grading Section S3
SCALE H: 1"=20' SCALE V: 1"=10'



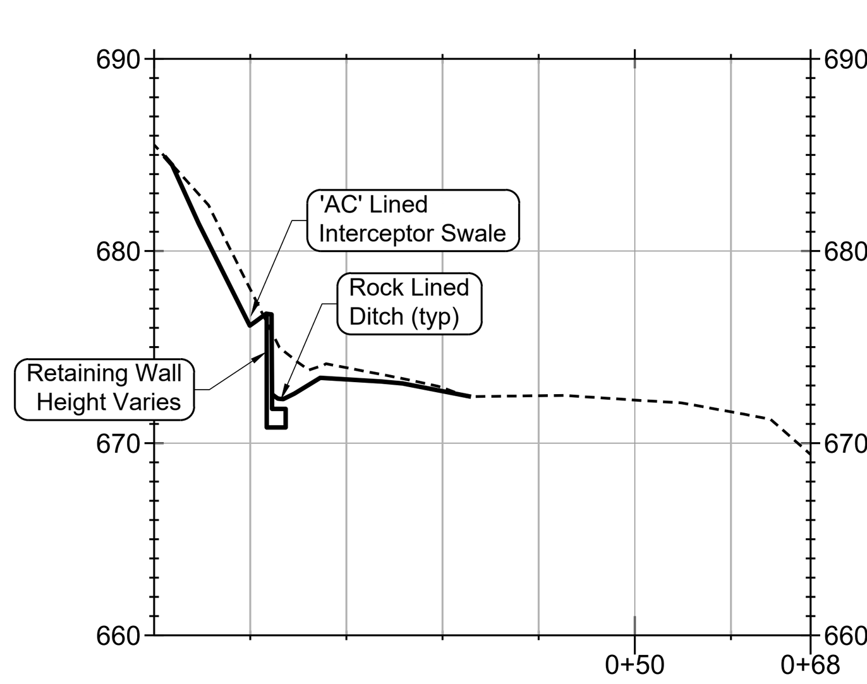
PROFILE: Grading Section S4
SCALE H: 1"=20' SCALE V: 1"=10'



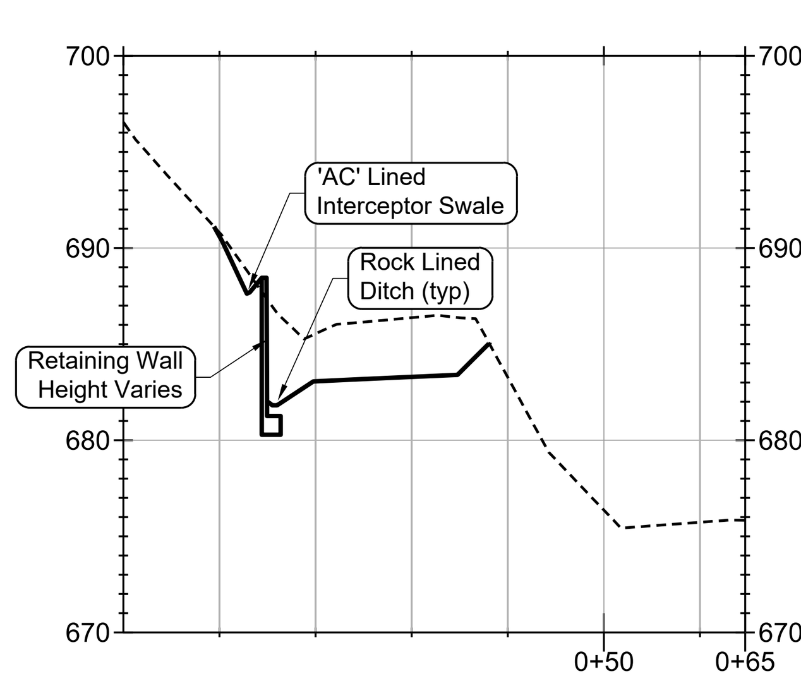
PROFILE: Garding Section S5
SCALE H: 1"=20' SCALE V: 1"=10'



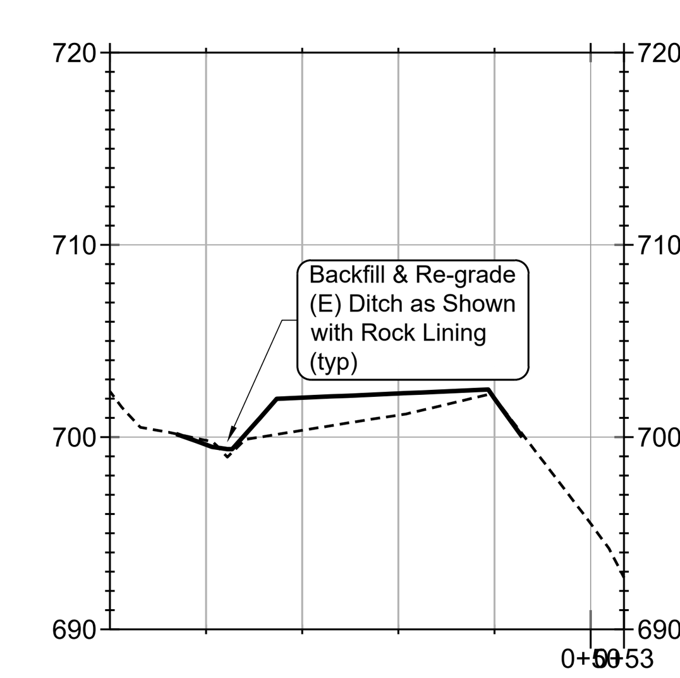
Footing Schematic
N.T.S.



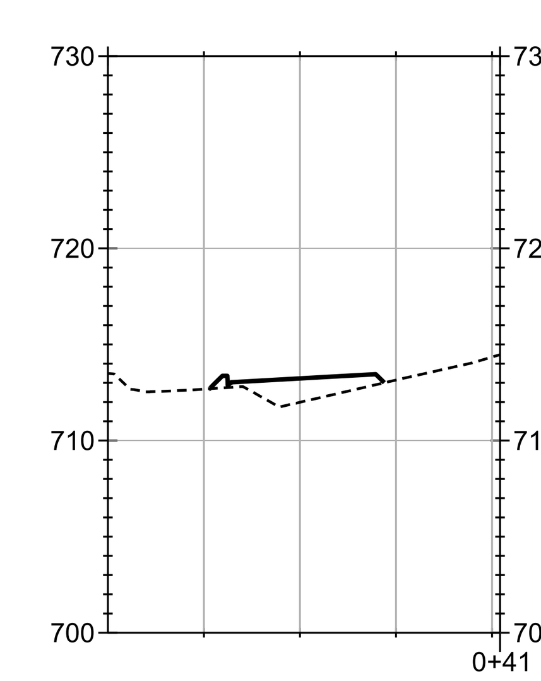
PROFILE: Driveway Section A
SCALE H: 1"=20' SCALE V: 1"=10'



PROFILE: Driveway Section B
SCALE H: 1"=20' SCALE V: 1"=10'



PROFILE: Driveway Section C
SCALE H: 1"=20' SCALE V: 1"=10'



PROFILE: Driveway Section D
SCALE H: 1"=20' SCALE V: 1"=10'

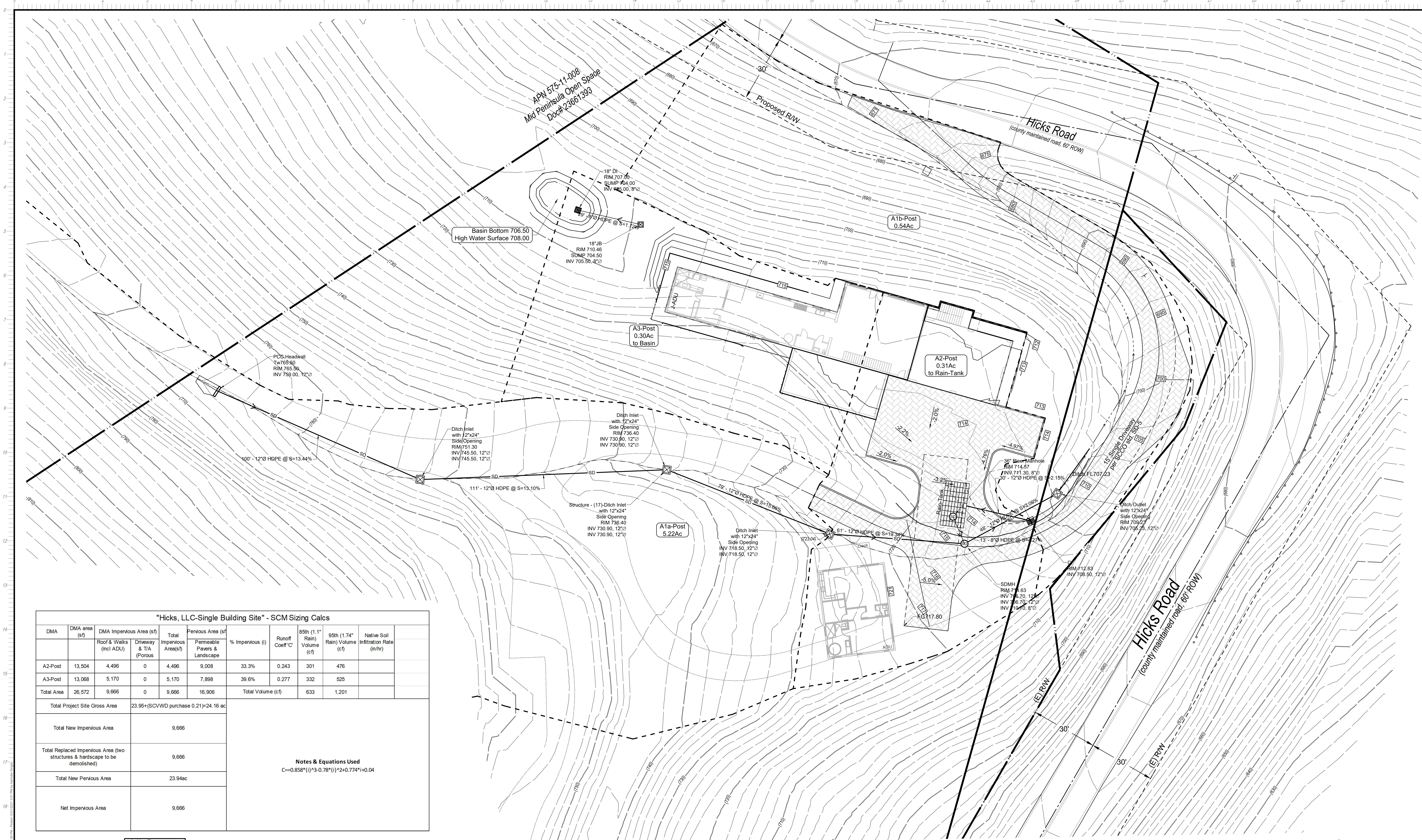
REGISTERED PROFESSIONAL ENGINEER
HARINDER SINGLA
C49717
STATE OF CALIFORNIA

MH engineering Co.
16075 Vineyard Boulevard
Morgan Hill, CA 95037

Access Drive Profile & Grading Sections
21631 Hicks Road - APN 575-11-009

DATE: 12/2021
SCALE: As Shown
DRAWN BY: DF
CHECKED BY: HS

JOB NO. 217091
SHEET 4 OF 7

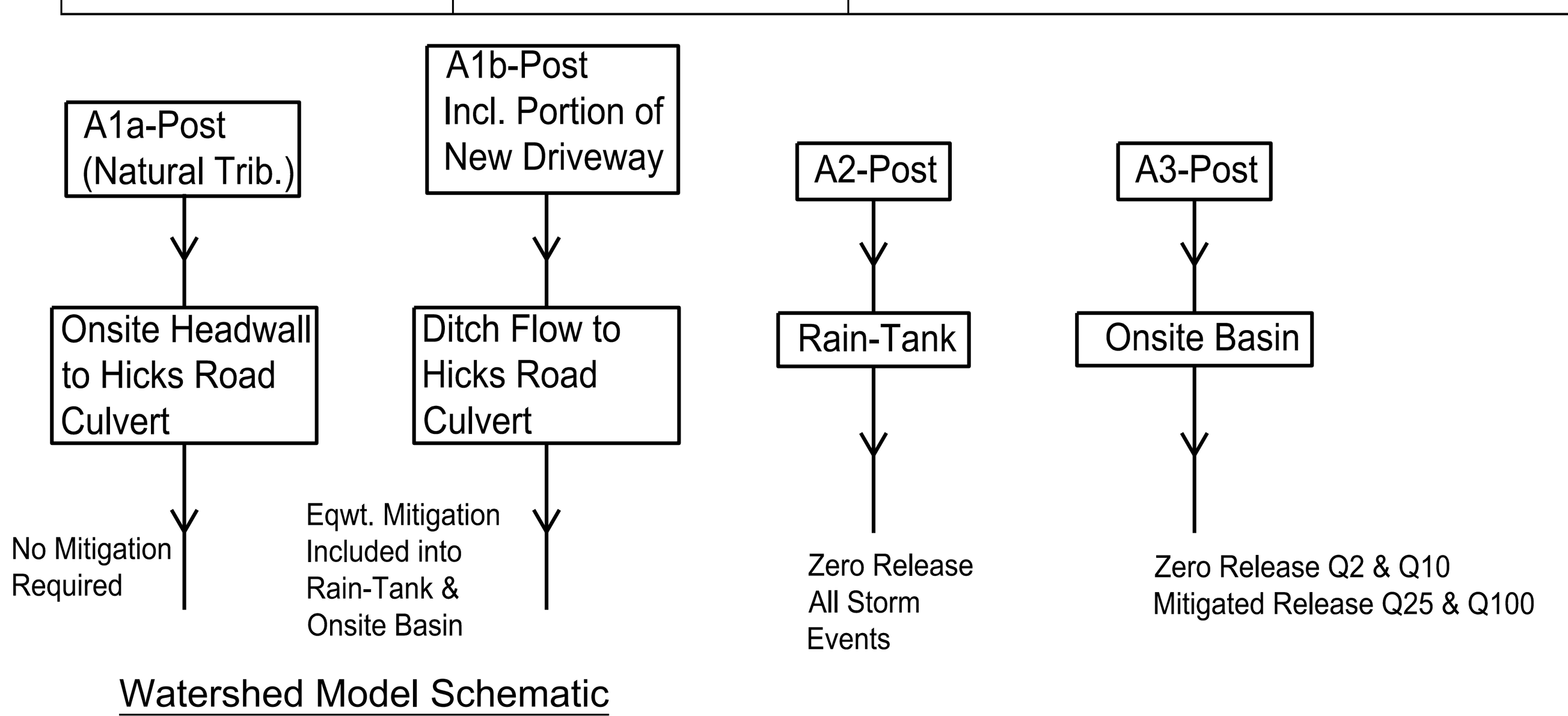


"Hicks, LLC-Single Building Site" - SCM Sizing Calcs										
DMA	DMA area (sf)	DMA Impervious Area (sf)		Total Impervious Area(sf)	Pervious Area (sf)	% Impervious (i)	Runoff Coeff 'C'	85th (1.1" Rain) Volume (cf)	95th (1.74" Rain) Volume (cf)	Native Soil Infiltration Rate (in/hr)
		Roof & Walks (incl ADU)	Driveway & T/A (Porous		Permeable Pavers & Landscape					
A2-Post	13,504	4,496	0	4,496	9,008	33.3%	0.243	301	476	
A3-Post	13,068	5,170	0	5,170	7,898	39.6%	0.277	332	525	
Total Area	26,572	9,666	0	9,666	16,906	Total Volume (cf)		633	1,201	

Total Project Site Gross Area	23.95+(SCVWD purchase 0.21)=24.16 ac
Total New Impervious Area	9,666
Total Replaced Impervious Area (two structures & hardscape to be demolished)	9,666
Total New Pervious Area	23.94ac
Net Impervious Area	9,666

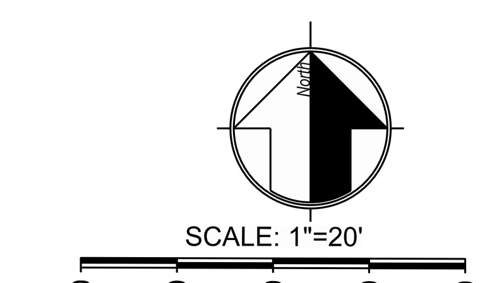
Notes & Equations Used

C==0.858*(i)^3-0.78*(i)^2+0.774*i+0.04



Watershed Model Schematic

Scale: None



REGISTERED PROFESSIONAL ENGINEER
HARINDER SINGLA
C49717
STATE OF CALIFORNIA

MH engineering Co.

16075 Vineyard Boulevard
Morgan Hill, CA 95037

Prelim Storm Water Management Plan

21631 Hicks Road - APN 575-11-009

DATE: 12/2021
SCALE: As Shown
DRAWN BY: RS
CHECKED BY: HS

JOB NO. 217091

SHEET 5 OF 7

Grading Violation Summary

Violation area descriptions indicated below are noted from Associated Terra Consultants' geological & geotechnical soils investigation report, dated Dec 9, 2021:

Violation Area A:
Grading violation Area A refers to a stone pillar that is at the base of the access driveway on the adjacent property. We understand that this pillar will be removed

Violation Area B:
Area B includes landscape block walls which extends along the base of a cut slope for the driveway. This wall ranges in height from 16 inches to 48 inches tall. It appears that these walls were constructed as decoration or as erosion control along the driveway. We did not observe any significant movement along these walls. Nevertheless we recommend that the blocks be removed and replaced with engineered retaining walls to protect the steep cut slope and base of the Proposed Building Envelope.

Grading Violation Area C:
Area C includes an area of fill that was likely placed when the existing driveway was created to widen and create a turnout. We understand from Haro, Kasunich and Associates, Inc. (2012) report that the turnout created under direction of Santa Clara County representative Mr. Gary Carrel. We observed no evidence of movement at the surface of this turnout. The fill wedge appeared at the time of our observations to be stable.

Grading Violation Area D:
Area D is excess fill which was disposed of by widening the existing driveway. It appears that the fill has been regraded several times since it was first placed in this area. Haro, Kasunich and Associates, Inc. boring shows there to be about seven feet of fill. We drilled Boring B-1 in 2017 in the middle of Reynolds Road in Area D and found approximately four feet of fill. Boring B-8 was drilled in the driveway portion of this downhill and found little to no fill. It appears that this area has been cleared of most of the fill and the only fill that remains has been used as backfill behind decorative three- to four-foot-high landscape block walls that have now terraced the slope. We believe the existing configuration is likely relatively stable but shall not be relied upon for support of roads, driveways, or structures.

Grading Violation Area D:
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Grading Violation Area E:
Area E pertains to storm runoff from the inboard edge of the driveway downslope towards Hicks Road. We visited the project property after a large rain episode to observe storm runoff at the project property. We observed surface water runoff flowing along the inboard edge of Reynolds Road and the existing driveway. The runoff has created a rill that is approximately a foot deep in some places. Runoff appears to be coming from the adjacent property and flowing onto the project property. The water is flowing all the way down the driveway and is dumping sediment at the base of the driveway and onto Hicks Road. We recommend the surface water coming off the adjacent property be collected in a catch basin that will contain the water till it can be discharged into a natural drainage. We also recommend a v-ditch be designed and constructed along the driveway to control runoff and a catch basin at the base to collect sediment runoff. These catch basins must be maintained so that adequate runoff may flow and not be allowed to discharge into the slopes.

Grading Violation Area F:
Grading violation Area F includes a cut and fill pad and an illegal structure. We do not know when this pad was created nor how it was created. The soils conditions along the fill slope show relatively cohesive soils that are stiff to hard. We observed approximately five and half feet of fill on the downhill side of this pad.

Civil has incorporated Grading abatement for Area F into the grading design for the proposed new construction per Associated Terra Consultants Inc. recommendations.

Earthwork Quantities

	Cut	Fill	Net
Violation Area C	1 cy	251 cy	+250
Violation Area D	110 cy	8 cy	-102
Violation Area E	0 cy	167 cy	+167
Violation Area F	34 cy	193 cy	+159
Total	145	619	474

Legend

Symbol	Description
Dashed box	Grading Violation Area Limits
—(0)—	Existing Contour (Pre-Violation)
—[0]—	Existing Contour (Post-Violation)

REGISTERED PROFESSIONAL ENGINEER
HARINDER SINGLA
C49717
STATE OF CALIFORNIA

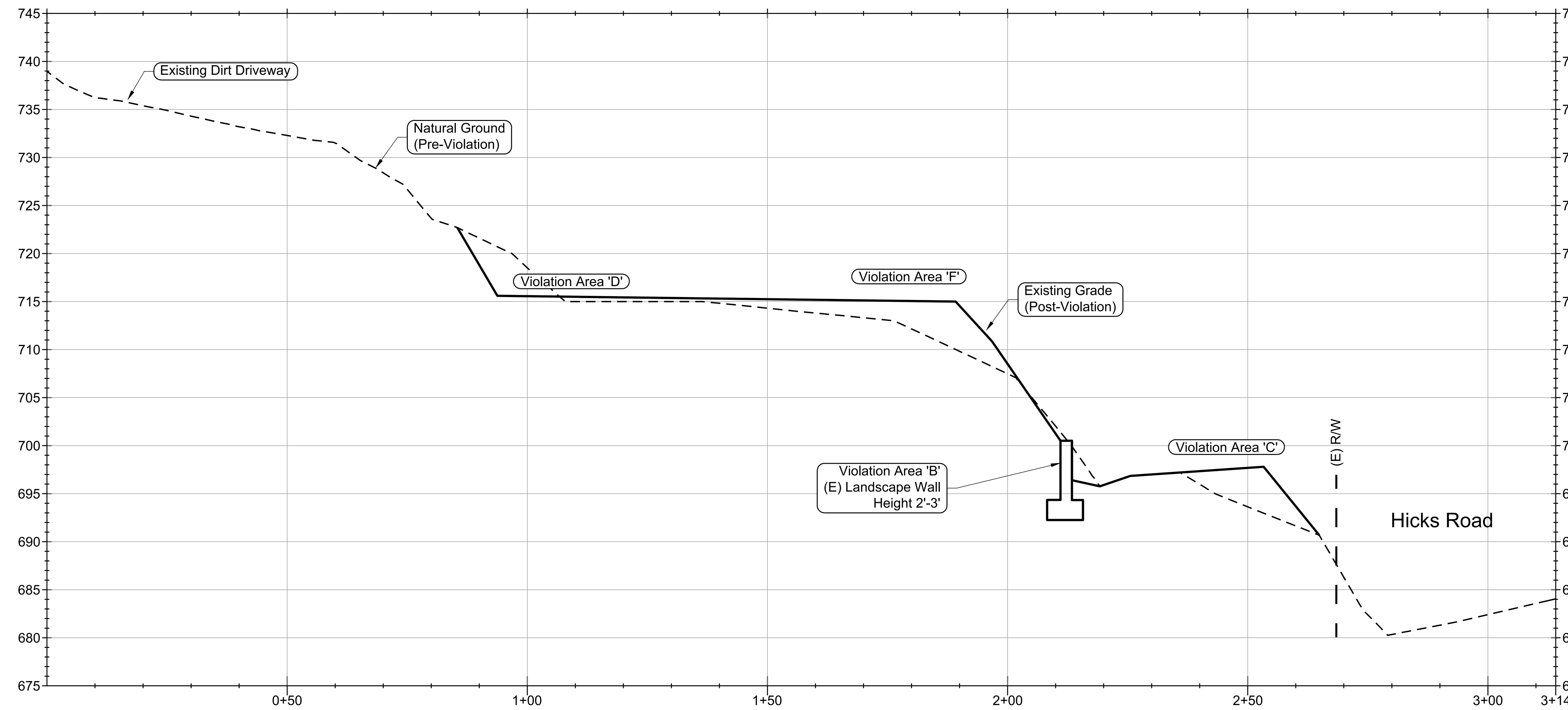
MH engineering Co.
16075 Vineyard Boulevard
Morgan Hill, CA 95037

Grading Abatement Plan
21631 Hicks Road - APN 575-11-009

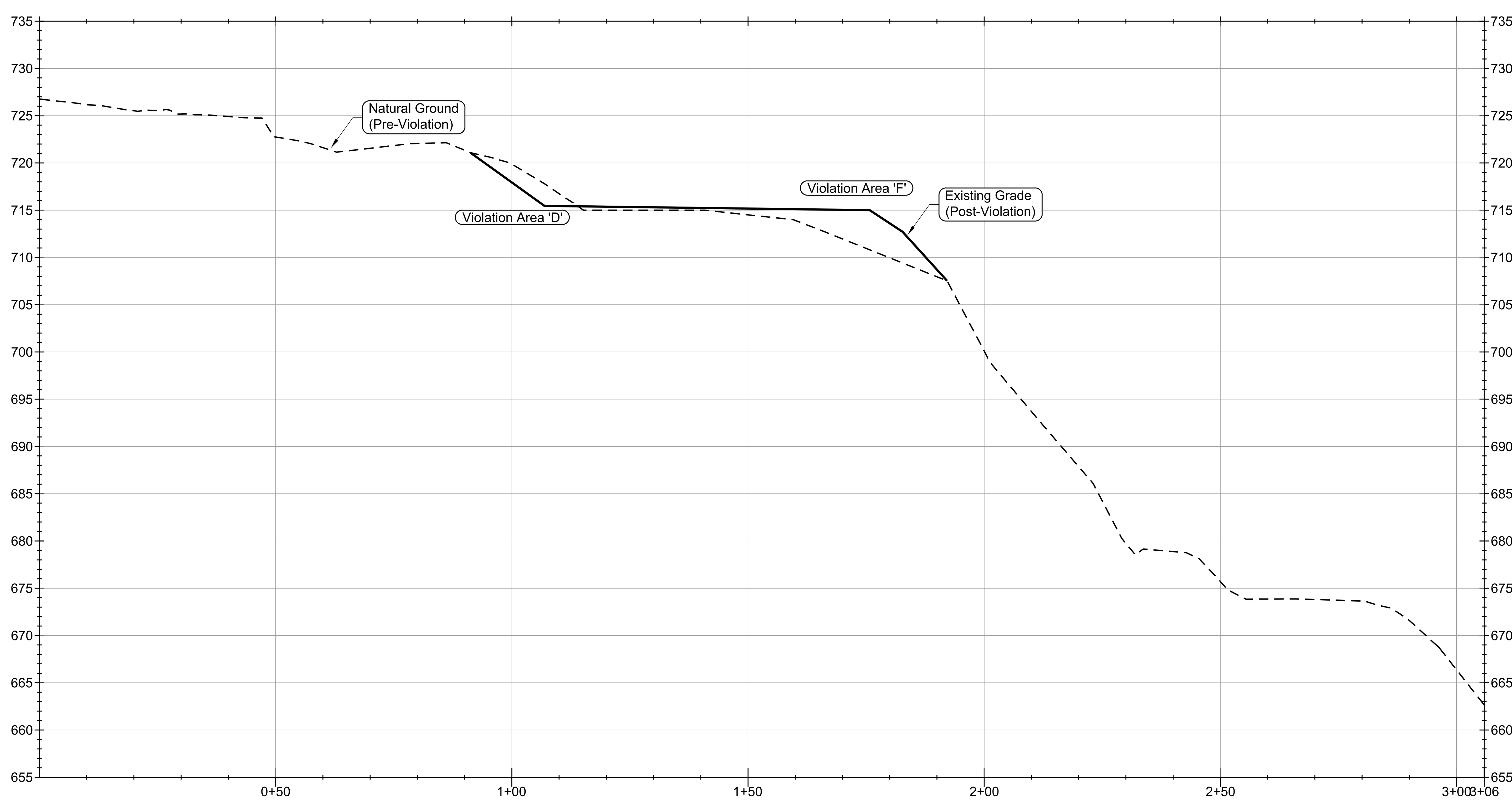
DATE: 12/22/21
SCALE: 1"=20'
DRAWN BY: RS
CHECKED BY: HS

JOB NO. 217091

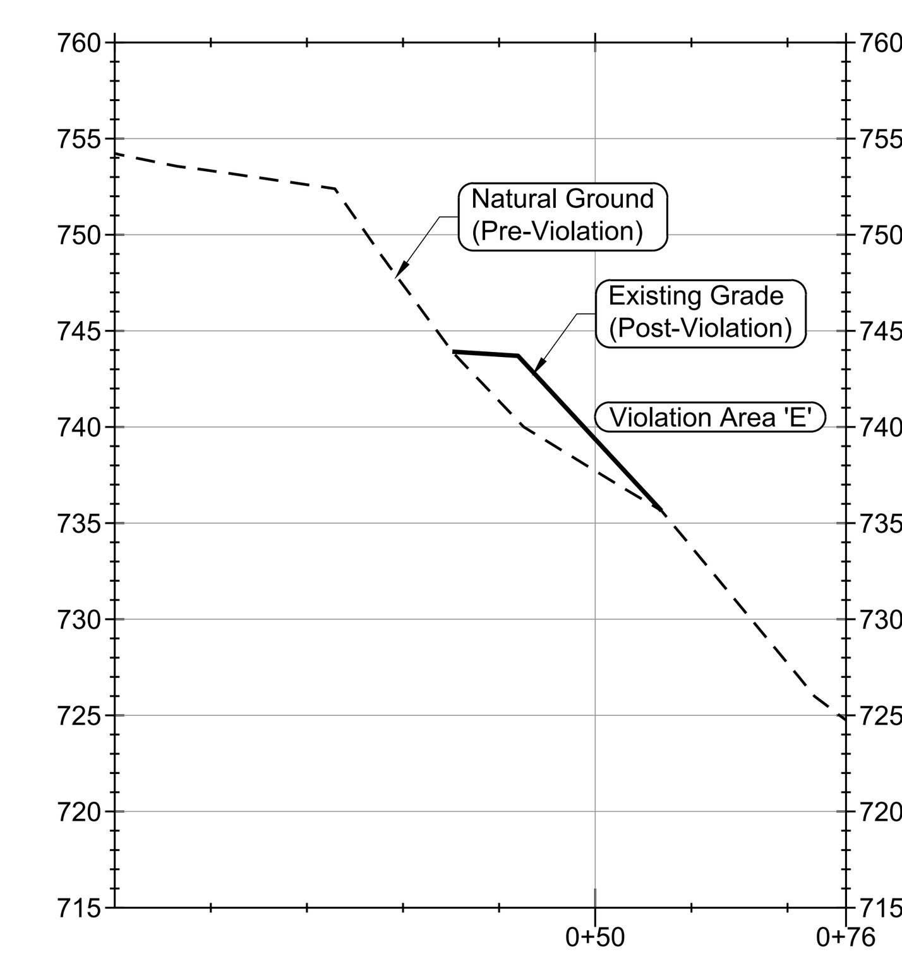
SHEET 6 OF 7



PROFILE: Section A
SCALE H: 1"=20' SCALE V: 1"=10'



PROFILE: Section B
SCALE H: 1"=20' SCALE V: 1"=10'



PROFILE: Section C
SCALE H: 1"=20' SCALE V: 1"=10'

REGISTERED PROFESSIONAL ENGINEER
HARINDER SINGLA
C49717
STATE OF CALIFORNIA

MH engineering Co.
16075 Vineyard Boulevard
Morgan Hill, CA 95037

Grading Abatement Sections
21631 Hicks Road - APN 575-11-009

DATE: 12-2021
SCALE: As Shown
DRAWN BY: RS
CHECKED BY: HS

JOB NO. 217091