OVERALL SITE PLAN

THE RECOMMENDED SCALE ON THE COUNTY SITE PLAN REQUIREMENTS IS 1"=20' AND 24X36 PLAN SIZE. 1"=20' SCALE DOES NOT ALLOW THE ENTIRE PROPERTY TO BE SHOWN ON THIS SHEET. THE PURPOSE OF THIS PLAN IS TO SHOW THE OVERALL SITE. ANOTHER SITE PLAN IS INCLUDED IN THIS PACKAGE AT A 1"=20' SCALE. COUNTY SITE PLAN REQUIREMENTS ARE SHOWN ON THIS SHEET AND C2.0.

SHEET INDEX:

C1.0	OVERALL SITE PLAN
C2.0	SITE PLAN/PRELIMINARY GRADING PLAN
C3.1	SECTION
C3.2	SECTION I
C4.0	SITE DISTANCE
C5.0	STORMWATER CONTROL PLAN

PROJECT DESCRIPTION:

NEW SINGLE FAMILY RESIDENCE, NEW SEPTIC SYSTEM, NEW WATER WELL/WATER TANKS, NEW UTILITIES, AND NEW DRIVEWAY.

AREA:

PARCEL 1 IS 4.29 ACRES
PARCEL 2 IS 0.21 ACRES
TOTAL AREA IS 4.50 ACRES
40' WIDE ROADWAY EXISTING EASEMENT

NEW DRIVEWAY 18,528 SQUARE FEET

NEW TWO STORY SINGLE FAMILY RESIDENCE 4000 SQUARE FEET

ZONING HS

EXISTING AVERAGE SLOPE AT SITE:
AVERAGE SLOPE TAKEN FROM AREA OF NEW PROPOSED BUILDING, AREA OF NEW SEPTIC FIELD, TURNAROUND NEAR HOME, AND CAR PASS BY SECTION IN MIDDLE OF DRIVEWAY.

S = ((I*L)/A)*100, S = SLOPE, I = CONTOUR INTERVAL, L =COMBINED LENGTH OF CONTOURS, A= AREA SF
S = ((5*506.74)/10,456)*100 = 24.23%
AVERAGE SLOPE OF SITE IS 24.23%.

GROUND DESCENDS TO NORTHEAST AT 1.5:1 TO 2:1 (HORIZONTAL TO VERTICAL). WESTERN PORTION OF PROPERTY AVERAGE SLOPE FROM 3:1 TO 7:1.

SOIL OR GEOLOGIC HAZARDS: PER GEOTECH REPORT, SITE IS WITHIN AN AREA OF SEVERAL LARGE, PROBABABLE, DORMANT–OLD DEEP SEATED LANDSLIDES.

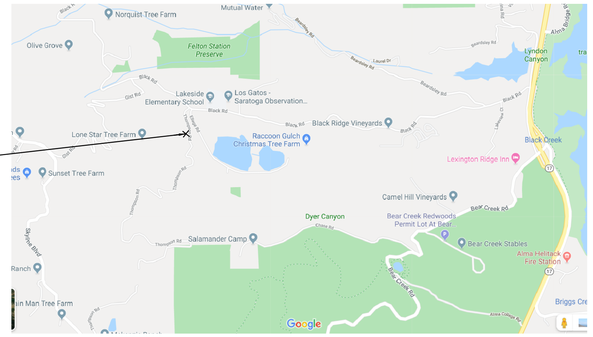
FAR = 4000 SF HOUSE / (4.5 ACRES*43450 SQ FT) = 0.02

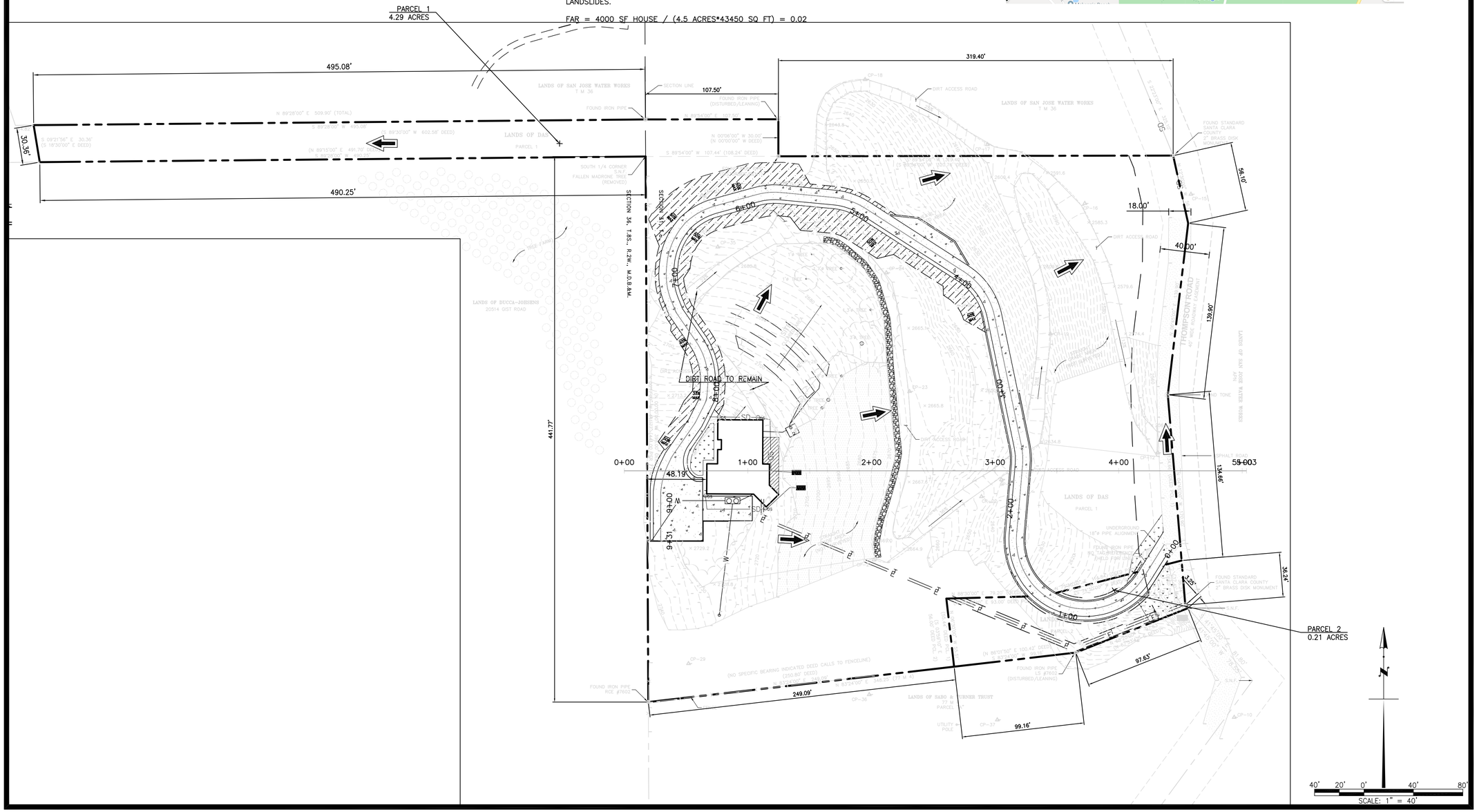
LEGEND:

PROPERTY LINE

EXISTING STORM WATER FLOW DIRECTION

VICINITY PLAN





DAS PROJECT
THOMPSON ROAD
LOS GATOS, SANTA CLARA COUNTY, CA
APN: 544-24-001 AND 544-24-002

CONSULTANT/PREPARER OF PLANS:

COMPANY NAME: SF CIVIL
CIVIL ENGINEER: PATRICK MACDONALD
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OWNER:

OWNER: SATYAJIT DAS

STAMP:

REGISTERED PROFESSIONAL ENGINEER PATRICK MACDONALD No. 85555 CIVIL STATE OF CALIFORNIA

12–26–2020
DATE SIGNED

REVISIONS

		DATE

SHEET TITLE
OVERALL SITE PLAN

SHEET NUMBER C1.0

DATE 12–26–2020

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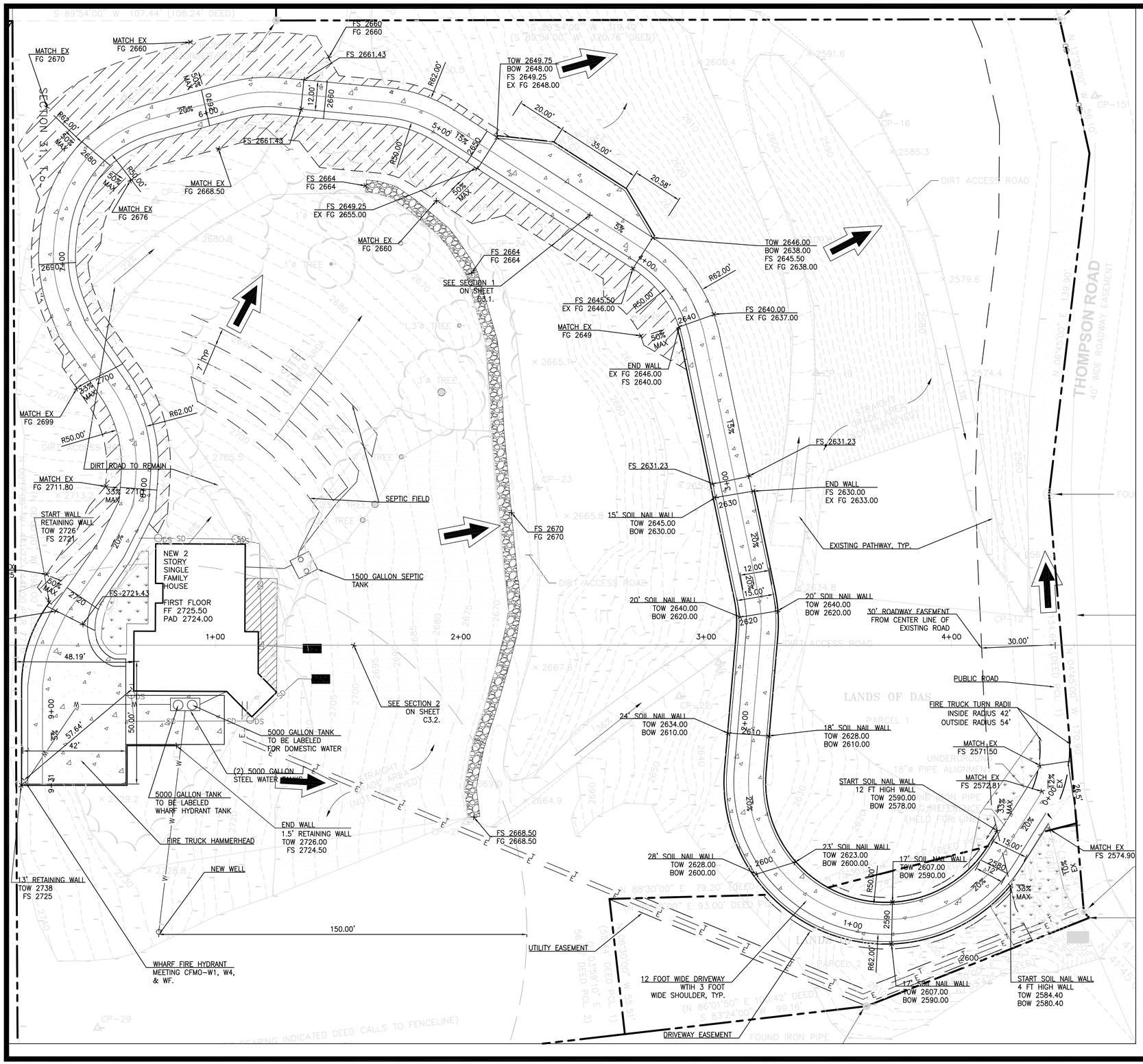

SANTA CLARA COUNTY FIRE MARSHALL STANDARDS:

1. WIDTH OF 12 FEET ROAD MINIMUM PROVIDED WITH 3 FOOT WIDE SHOULDER. WIDTH OF ROAD WAS CONFIRMED WITH SANTA CLARA COUNTY FIRE DISTRICT. SCCFD REQUIRES 12 FOOT PAVED ROAD. GREENBOOK REQUIRES 12 FOOT WIDE ROAD WITH 3 FOOT WIDE SHOULDER.
2. MAX GRADE 20% FOR 300 FOOT MAX LENGTH SECTIONS. AT LEAST 100 FEET OF 15% OR LESS GRADE IN BETWEEN 20% MAX SECTIONS.
3. MINIMUM INSIDE TURNING RADIUS OF 42 FEET PROVIDED.
4. DRIVEWAY PROVIDED WITH TURNOUTS SINCE IT IS LONGER THEN 500 FEET.
5. TURNAROUND PROVIDED AT END OF DRIVEWAY.
6. SURFACE IN EXCESS OF 15% SHALL BE PROVIDED WITH ENGINEERED ASPHALT OR CONCRETE.
7. SITE IS ACCESSIBLE FROM BLACK ROAD AS RECOMMENDED BY FIRE MARSHALL'S OFFICE.
8. MINIMUM VERTICAL CLEARANCE OF 15 FEET PROVIDED. NO KNOWN VERTICAL OBSTRUCTIONS.

EARTHWORK SUMMARY:

NOTE: EARTHWORK NUMBERS ARE AN ESTIMATE. ACTUAL EARTHWORK VALUES MAY VARY.

DRIVEWAY EARTHWORK:
CUT:4148.42 CUBIC YARDS
FILL:390.72 CUBIC YARDS
NET CUT:3757.70 CUBIC YARDS

DRIVEWAY MAX CUT 28'
DRIVEWAY MAX FILL 8'

HOUSE EARTHWORK:
CUT:60.11 CUBIC YARDS
FILL:261.84 CUBIC YARDS
NET FILL: 201.73 CUBIC YARDS

UTILITIES:

1. NEW SEPTIC SYSTEM
2. NEW WELL, HYDRANT, AND WATER TANK.
3. ELECTRICAL TO CONNECT TO EXISTING ELECTRICAL SYSTEM AT STREET.

DRAINAGE:

1. EXISTING SURFACE FLOW DIRECTION ARROWS SHOWN ON PLAN. STORMWATER FLOWS DOWNHILL ACROSS THE SITE IN THE NORTH EAST DIRECTION.
2. PROPOSED DEVELOPMENT TO MAINTAIN DRAINAGE ACROSS SITE IN THE NORTH EAST CONDITION.
3. PROJECT SITE SHOWS ON FEMA FIRMETTE AS BEING LOCATED IN FEMA ZONE D. THIS AREA IS KNOWN AS UNDETERMINED RISK. NO ANALYSIS OF FLOOD HAZARDS CONDUCTED.

TREES:

1. TOPOGRAPHIC BOUNDARY SURVEY PROVIDED BY OTHERS. SURVEY SHOWS TREES 1 FOOT DIAMETER AND LARGER. NO KNOWN TREES LARGER THEN 1 FOOT DIAMETER NEED TO BE REMOVED.

LEGEND:

- CONCRETE SURFACE. DRIVEWAY SHALL BE MADE OF AN ALL WEATHER MATERIAL CAPABLE OF HOLDING 75,000 POUNDS.
- EXISTING SURFACE FLOW DIRECTION
- PROPOSED SURFACE FLOW DIRECTION
- 27% — SLOPE AND DIRECTION
- (E) — EXISTING LANDSCAPE
- W — WATER PIPE
- PROPERTY LINE
- E — ELECTRICAL
- WALL
- MATCH EX GRADE
- HYDROSEED AREA ADJACENT TO THE DRIVEWAY. MAX SLOPE 50%. AREA ADJACENT TO DRIVEWAY TO SLOPE AT 50% TO CONFORM FROM EXISTING GRADE TO GRADE OF DRIVEWAY.
- T — TELECOM/INTERNET

ABBREVIATIONS:

BOW	BOTTOM OF WALL
EG	EXISTING GRADE
EX	EXISTING
FF	FINISHED FLOOR
FG	FINISHED GRADE
FL	FLOW LINE
FS	FINISHED SURFACE
INV	INVERT
LF	LINEAR FEET
PL	PROPERTY LINE
SD	STORM DRAIN
TOW	TOP OF WALL

N

20' 10' 0' 20' 40'
SCALE: 1" = 20'

DAS PROJECT
THOMPSON ROAD
LOS GATOS, SANTA CLARA COUNTY, CA
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12-26-2020
DATE SIGNED

REVISIONS

		DATE

SHEET TITLE

SITE PLAN /
PRELIMINARY GRADING PLAN

SHEET NUMBER

C2.0

DATE 12-26-2020

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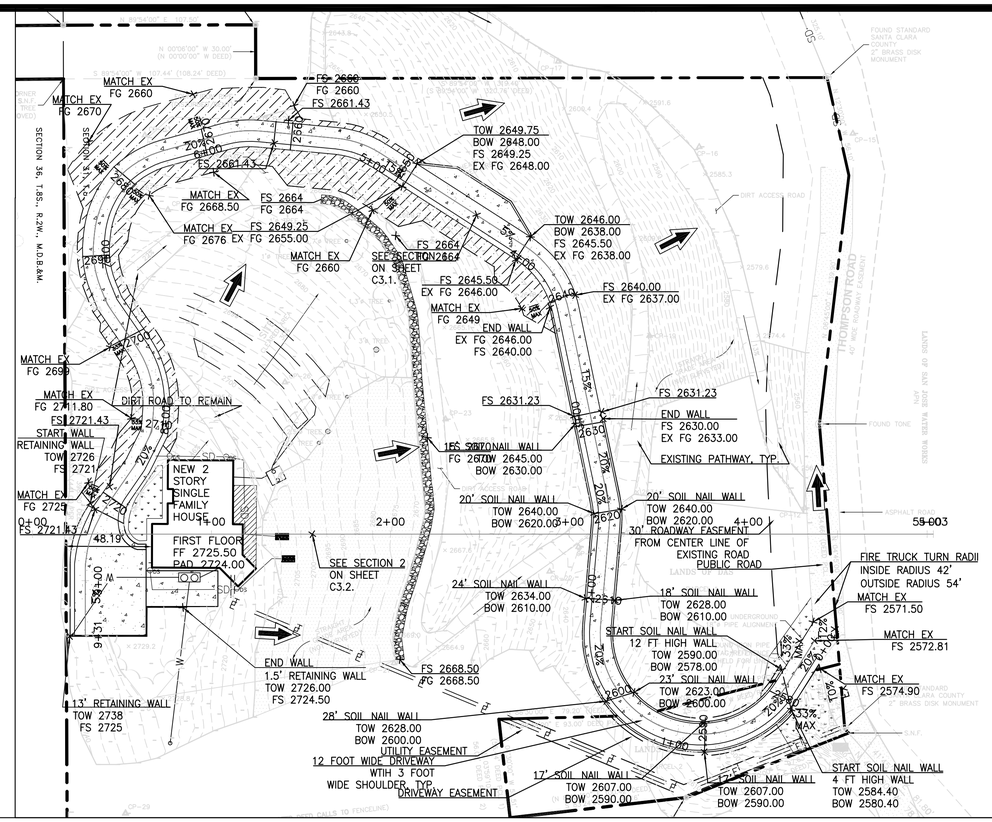

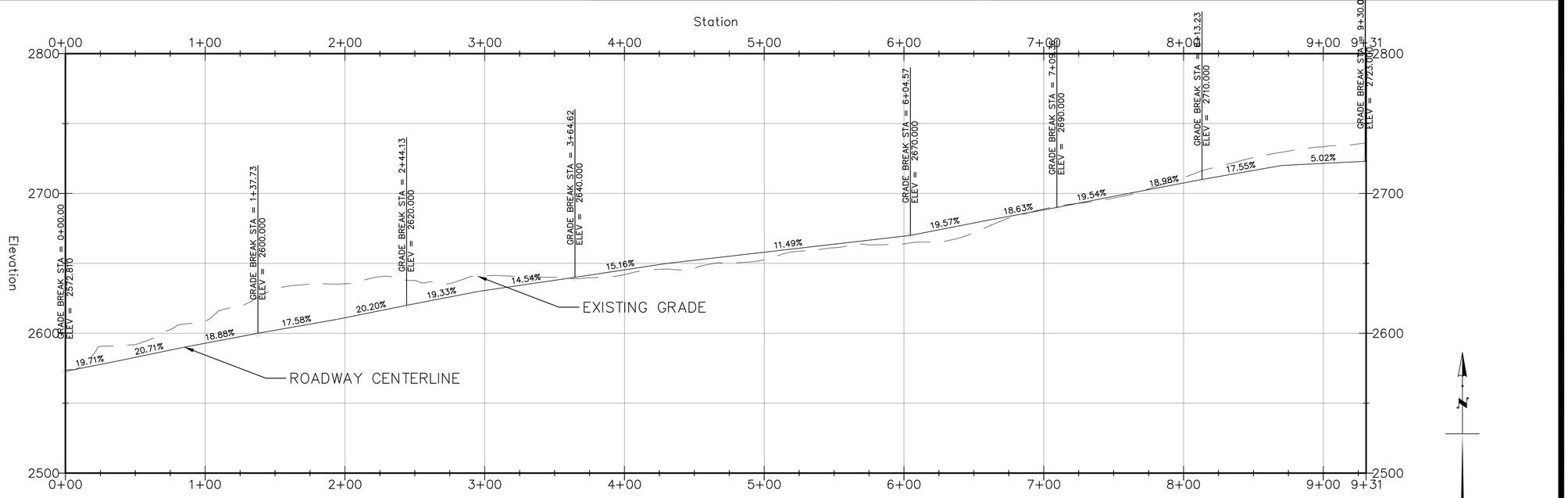

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SHEET TITLE

SECTION 1

SHEET NUMBER C3.1

DATE 12-26-2020

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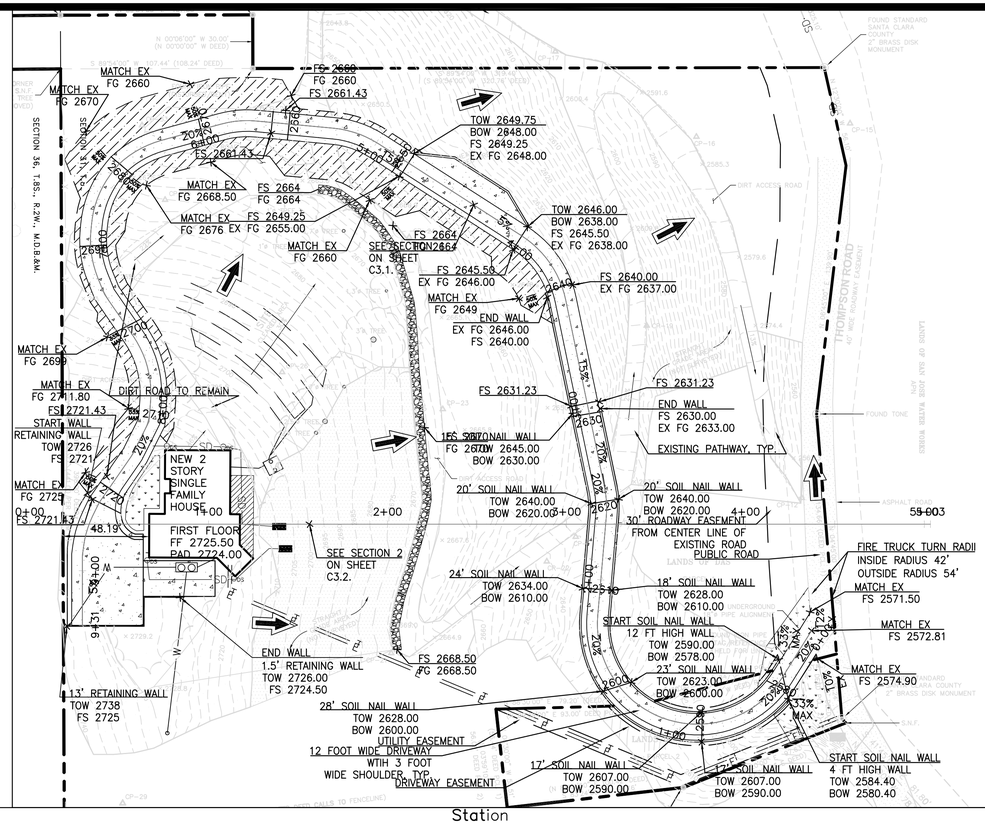

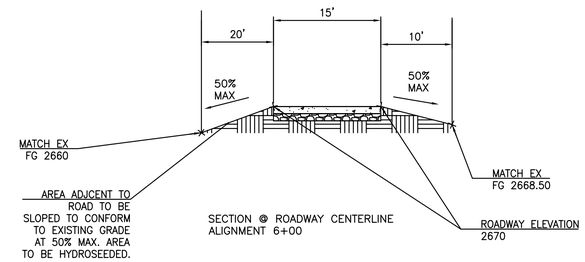

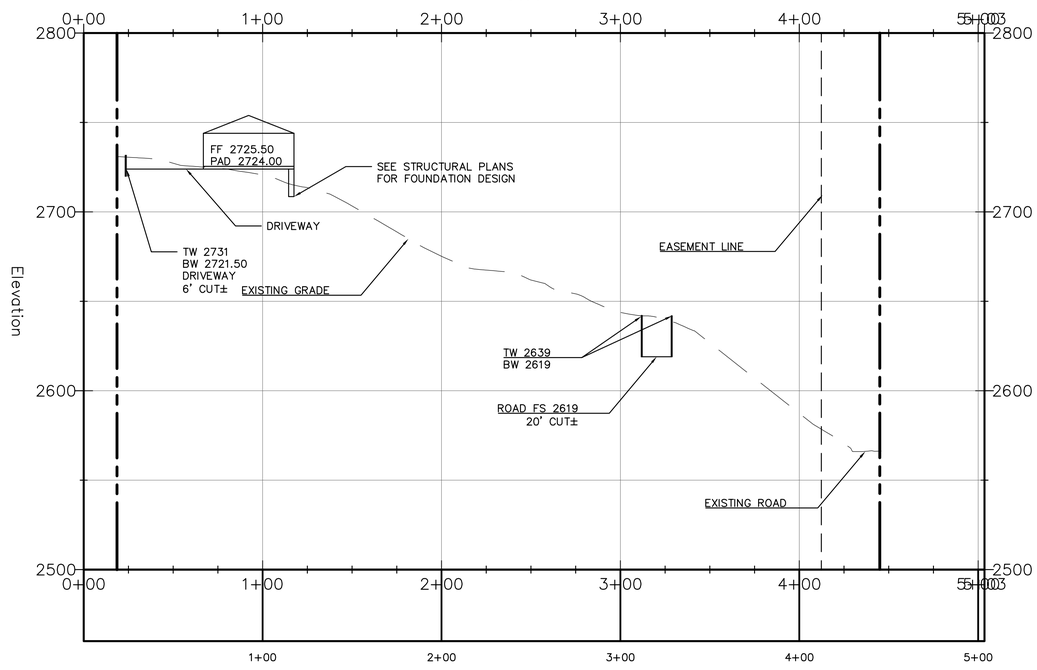

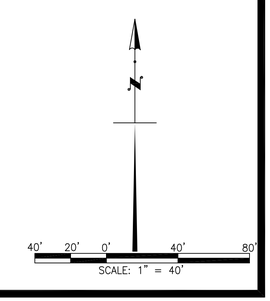

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SHEET TITLE

SECTION 2

SHEET NUMBER C3.2

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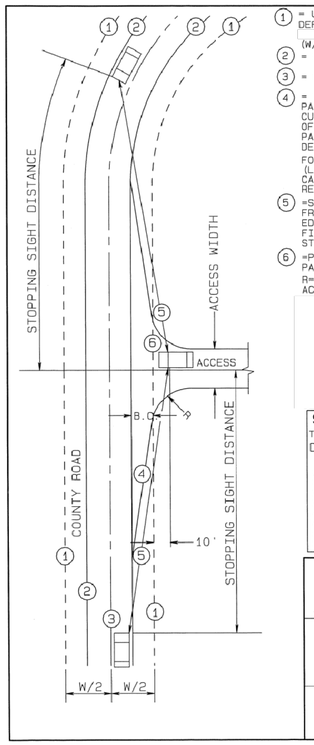
NOTE: THE PURPOSE OF THIS SHEET IS TO SHOW SITE DISTANCE AT THE DRIVEWAY.



1 = ULTIMATE EDGE OF PAVEMENT AS DEFINED

(W/2=ULTIMATE HALF WIDTH OF ROAD)

2 = EXISTING EDGE OF PAVEMENT.

3 = CENTERLINE OF ROAD.

4 = TAPER 10: 1 FROM EXISTING EDGE OF PAVEMENT TO BEGINNING OF ACCESS CURVE (B.C.) AT THE INTERSECTION OF THE ULTIMATE EDGE OF PAVEMENT OR MINIMUM NEW PAVEMENT DESCRIBED BELOW.

FOR VERY LOW VOLUME COUNTY ROADS (LESS THAN 400 ADT), A 4: 1 TAPER CAN BE USED IF SIGHT DISTANCE REQUIREMENTS ARE ADEQUATE.

5 =SIGHT LINE: UNOBSTRUCTED VIEW FROM A POINT 10 FT. BEHIND ULTIMATE EDGE OF PAVEMENT AND 3.5 FT. ABOVE FINISHED SURFACE THROUGH THE STOPPING SIGHT DISTANCE.

6 =PROJECTION OF ULTIMATE EDGE OF PAVEMENT ACROSS ACCESS.

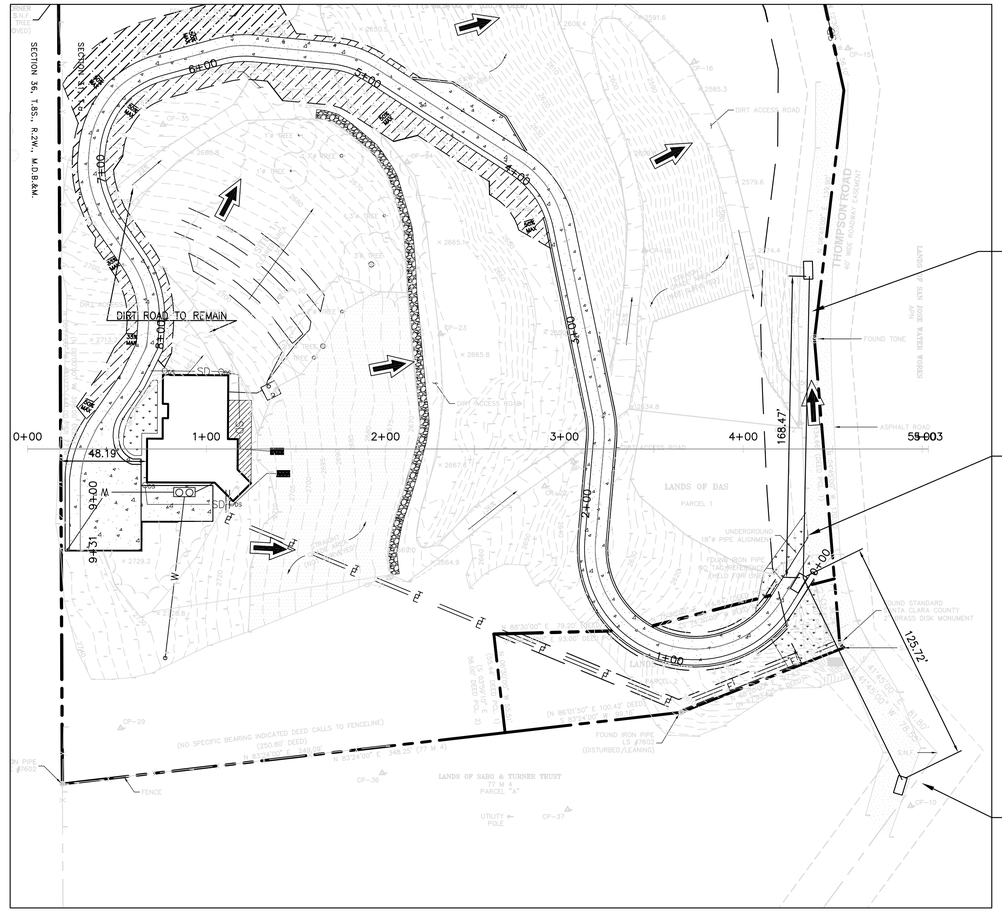
R=RADIUS OF CURVE CONNECTING ACCESS ROAD WITH COUNTY ROAD

SIGHT DISTANCE STANDARDS

TABLE 201.1 CALTRANS DESIGN MANUAL

DESIGN SPEED (mph)	STOPPING (ft)
20	125
25	150
30	200
35	250
40	300
45	350
50	430
55	500

RURAL COUNTY ROAD DRIVEWAY AND PRIVATE ROAD INTERSECTIONS



150 MINIMUM SITE DISTANCE. 25 MPH AT STRAIGHT.

AREA ADJACENT TO DRIVEWAY TO BE REGRADED AND VEGETATION CLEARED. THIS WILL ALLOW FOR PROPER SITE DISTANCE.

125 MINIMUM SITE DISTANCE. 20 MPH AT TURN.

N

40' 20' 0' 40' 80'

SCALE: 1" = 40'

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SHEET TITLE

SIGHT DISTANCE

SHEET NUMBER DATE 12-26-2020

C4.0

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AREA:

TOTAL SITE AREA IS 4.50 ACRES.

NEW DRIVEWAY 18,528 SQUARE FEET

NEW TWO STORY SINGLE FAMILY RESIDENCE IMPERVIOUS BLDG FOOTPRINT 4000 SQUARE FEET

DMA – 1 PRE CONDITION RUNOFF IS LESS THEN OR EQUAL TO POST CONDITION RUNOFF BY DIRECTING A LARGE AMOUNT OF THE AREA TOWARDS A GRAVEL TRENCH. GRAVEL TRENCH IS LOCATED ON A RELATIVELY FLAT AREA OF THE SITE.

PLEASE NOTE IT IS DIFFICULT TO DETAIN STORMWATER ON THIS SITE DUE TO THE STEEPNESS OF IT. THEREFORE, THE LIMITED AMOUNTS OF FLAT AREAS ON THE SITE WERE USED TO DETAIN STORMWATER.

DMA –1
PRE CONDITION
10 year calcs at M.A.P 35
Tc =10.89 min
Intensity = 2.25
Peak Runoff Rate for 10 year Q=CIA=
0.20*2.25*4.17= 1.87 cfs

100 year calcs at M.A.P 35
Tc=10.89
Intensity = 3.25 in/hr
Peak Runoff Rate for 100 year Q=CIA=
0.20*3.25*4.17=2.71 cfs

*POST CONDITION CALCS IF STORM DIDN'T FLOW TO GRAVEL TRENCH BELOW FOR 10 YEAR AND 100 YEAR STORM.

10 year calcs at M.A.P 35
Tc =10.89
Intensity = 2.25 in/hr
Peak Runoff Rate for 10 year Q=CIA=
0.28*2.25*4.17=2.63 cfs

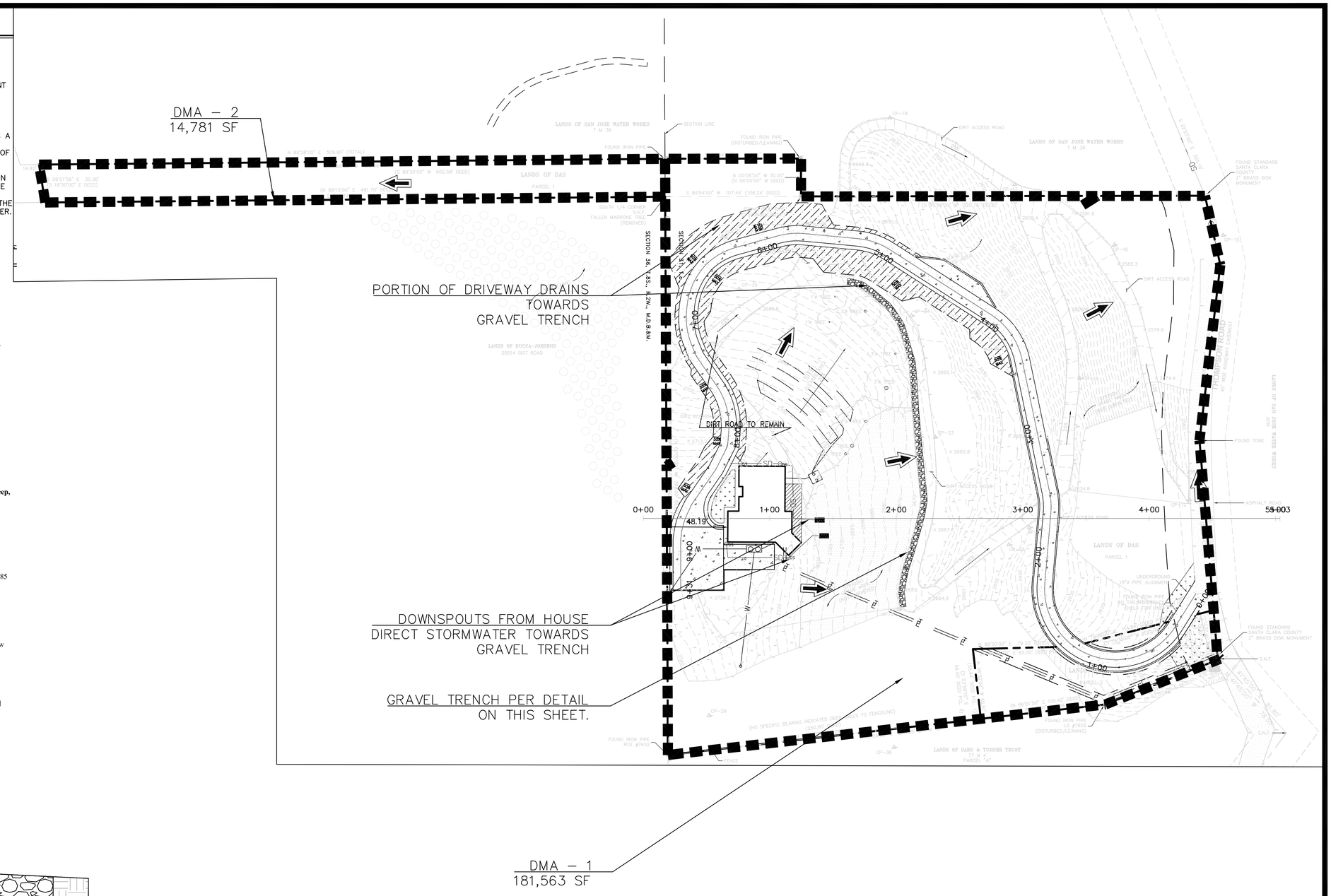
100 year calcs at M.A.P 20
Tc=10.89
Intensity = 3.25 in/hr
Peak Runoff Rate for 100 year Q=CIA=
0.28*3.25*4.17=3.79 cfs

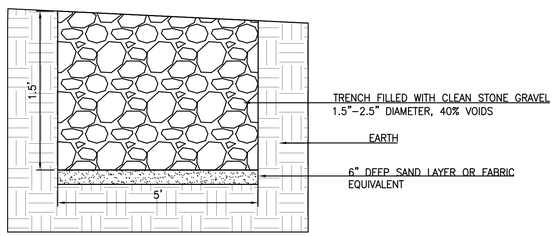
GRAVEL TRENCH SIZING:
Gravel trench to be 284 feet long, by 1.50 feet deep, by 5 feet wide.
Void ratio = 0.40
Total Volume = 2130 cubic feet
Actual storage volume = 852 cubic feet

Qpost 10 year flowing towards gravel trench=
(0.30)(2.25)(50467/43560)= 0.78 CFS

Qpre 10 year=1.87 CFS
Qpost total for whole site due to gravel trench = 1.85 CFS
Note: 1.15 CFS flows towards the gravel trench.
Qpost 100 year flowing towards gravel trench=
(0.3)(3.3)(50467/43560)=1.15 CFS
Qpre=2.71
Qpost 100 YEAR DUE TO GRAVEL TRENCH= 2.64
Required storage volume to accommodate total flow towards trench = 609 cf

DMA – 2 NO WORK IS BEING DONE IN THIS AREA SO PRE CONDITION RUNOFF EQUALS POST CONDITION RUNOFF.





GRAVEL TRENCH

40' 20' 0' 40' 80'
SCALE: 1" = 40'

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SHEET TITLE
STORMWATER CONTROL PLAN

SHEET NUMBER C5.0
DATE 12–26–2020

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