HYDRAULIC CALCULATIONS

BASIN A

	PRE-DEVELOPMENT		POST-DEVELOPMENT	
IMPERVIOUS AREA	0 SF		155,190 SF	
	10 yr	100 yr	10 yr	100 yr
Q (cfs)	5.34	7.67	8.40	12.09
C AVERAGE	0.36		0.48	
STORMWATER STORAGE (CF)			3745	5095

BASIN B

	PRE-DEVELOPMENT		POST-DEVELOPMENT	
IMPERVIOUS AREA	0 SF		8,250 SF	
	10 yr	100 yr	10 yr	100 yr
Q (cfs)	0.31	0.44	0.51	0.73
C AVERAGE	0.16		0.27	
STORMWATER STORAGE (CF)			276	383

APPROXIMATE EARTHWORK QUANTITIES

	CUT	FILL	NET
		CUBIC YARDS	
SITE GRADING	1905	1915	10 FILL
CEMETERY	1620	1542	78 CUT
PARKING LOT A	370	1240	870 FILL
PARKING LOT B	650	0	650 CUT
STORMWATER DETENTION AREA	795	0	795 CUT
MOSQUE, PLAZA, AND COMM BLDG	870	2140	1270 FILL
TOTAL SITE CUT AND FILL	6210	6837	627 FILL

NOTES:
1. EARTHWORK QUANTITIES ARE APPROXIMATE AND SHALL BE INDEPENDENTLY VERIFIED BY THE CONTRACTOR FOR BIDDING PURPOSES.
2. EXCESS SOIL SHALL BE HAULED OR PLACED IN A COUNTY APPROVED LOCATION.

BIOLOGICAL RESOURCES NOTES

A) IF LAND-CLEARING ACTIVITIES CAN BE PERFORMED OUTSIDE OF THE NESTING SEASON, THAT IS, BETWEEN AUGUST 16 AND JANUARY 31, NO SURVEYS FOR GROUND-NESTING AND/OR TREE-NESTING PASSERINES ARE WARRANTED. THE SURVEY AREA SHOULD INCLUDE ALL TREES AND SCRUB WITHIN 200 FEET OF THE LIMITS OF WORK. THE PURPOSE OF PRE-CONSTRUCTION CONSTRUCTION SURVEYS IS TO DETERMINE IF OCCUPIED NESTS ARE PRESENT WITHIN THE ZONE OF INFLUENCE OF THE PROJECT.

B) IF LAND-CLEARING ACTIVITIES ARE TO COMMENCE BETWEEN FEBRUARY 1 AND AUGUST 15, A PRE-CONSTRUCTION SURVEY FOR GROUND-NESTING AND/OR TREE-NESTING PASSERINES MUST BE CONDUCTED PRIOR TO THE INITIATION OF WORK. THE SURVEY AREA SHOULD INCLUDE ALL TREES, BUSHES, GRASSLAND AND STRUCTURES WITHIN 100 FEET OF THE LIMITS OF WORK. THE PURPOSE OF PRE-CONSTRUCTION SURVEYS IS TO DETERMINE IF OCCUPIED NESTS ARE PRESENT WITHIN THE ZONE OF INFLUENCE OF THE PROJECT.

C) DEPENDING ON THE TIME OF YEAR AND DEPENDING ON THE RESULTS OF THE PRE-CONSTRUCTION SURVEYS, IT MIGHT BE NECESSARY THAT CONSTRUCTION ACTIVITIES COMMENCE WITHIN ONE WEEK OF THE SURVEY EARLY IN THE BREEDING SEASON TO AS LONG AS 30 DAYS LATE IN THE BREEDING SEASON, AS RECOMMENDED BY THE WILDLIFE BIOLOGIST. IF CONSTRUCTION IS NOT INITIATED WITHIN THESE WINDOWS, IT MIGHT BE NECESSARY TO REPEAT THE PRE-CONSTRUCTION SURVEYS.

D) IF ANY OCCUPIED GROUND-NESTING AND/OR TREE-NESTING PASSERINE NESTS ARE FOUND WITHIN THE ZONE OF INFLUENCE, GRADING AND CONSTRUCTION SHALL BE PROHIBITED WITHIN AN APPROPRIATE SETBACK (IN GENERAL, 75-100 FEET, DEPENDING ON LINES OF SIGHT AND THE SPECIES IN QUESTION), AS APPROVED BY A QUALIFIED BIOLOGIST. WORK WITHIN THE SETBACK MUST BE DELAYED UNTIL AFTER THE YOUNG HAVE FLEDGED, AS DETERMINED DURING SURVEYS BY A QUALIFIED BIOLOGIST, OR UNTIL AFTER AUGUST 15.

ABBREVIATIONS

BW	BOTTOM OF WALL
CB	CATCH BASIN
CONST	CONSTRUCT
DIA, Ø	DIAMETER
DS	DOWNSPOUT
DTL	DETAIL
DWY	DRIVEWAY
(E)	EXISTING
EL	ELEVATION
EOP	EDGE OF PAVEMENT
FF	FINISH FLOOR
FG	FINISH GRADE
FS	FIRE SERVICE
HP	HIGH POINT
INV	INVERT
LF	LINEAR FEET
LP	LOW POINT
MAX	MAXIMUM
N.T.S.	NOT TO SCALE
RW	RETAINING WALL
RIM	RIM ELEVATION
S	SLOPE
SCCO	SANTA CLARA COUNTY
SSCO	SANITARY SEWER CLEANOUT
SDCO	STORM DRAIN CLEANOUT
TYP	TYPICAL
TW	TOP OF WALL
WS	WATER SERVICE

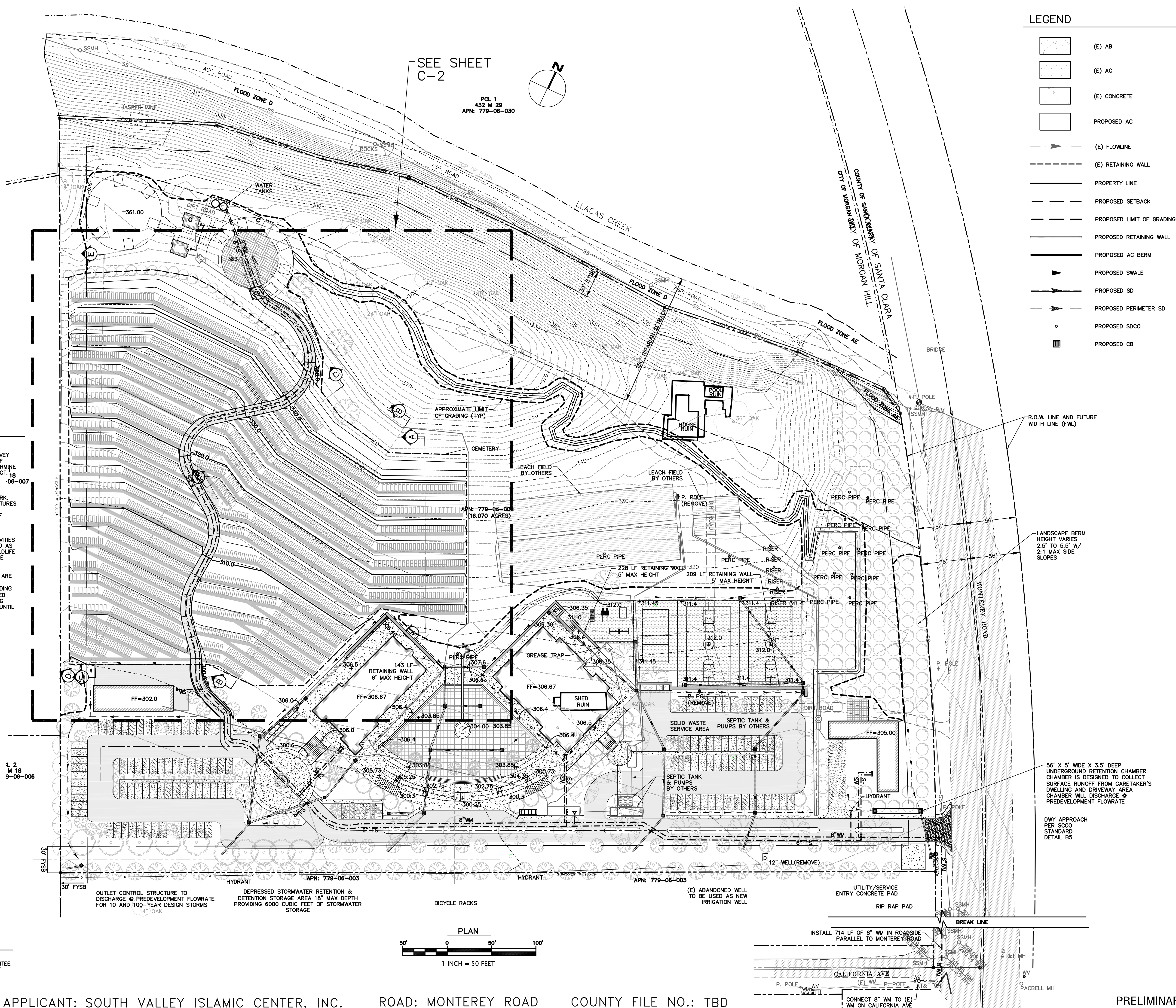## STORM DRAIN SYSTEM MAINTENANCE

THE HOME OWNER IS RESPONSIBLE FOR MAINTAINING THE STORM DRAINAGE SYSTEM AND ALL COMPONENTS. EVERY YEAR, PRIOR TO THE WET WEATHER SEASON (OCTOBER 15TH) ALL THE CATCH BASINS AND STORM DRAIN CLEANOUTS SHALL BE INSPECTED AND CLEANED OF ANY DEBRIS, SILT, TRASH AND SEDIMENT.

STORM DRAINAGE NOTES

1. CULVERTS SHALL BE REINFORCED CONCRETE PIPE (RCP), POLYVINYL CHLORIDE (PVC), OR HIGH DENSITY POLYETHYLENE (HDPE) AND SHALL HAVE A SMOOTH INTERIOR CONFORMING TO SANTA CLARA COUNTY DRAINAGE MANUAL.

2. INLETS SHALL BE CHRISTY CONCRETE PRODUCTS OR APPROVED EQUAL.

TOPOGRAPHIC SURVEY

THE TOPOGRAPHIC SURVEY AND BOUNDARY INFORMATION PROVIDED HEREON WAS COMPLETED BY CARNES AND ASSOCIATES. RI ENGINEERING INC. MAKES NO GUARANTEE AS TO THE ACCURACY OF BOTH. THE CONTRACTOR SHALL VERIFY THE BOUNDARY LOCATION AND TOPOGRAPHIC INFORMATION PRIOR TO COMMENCING WORK.

LEGEND

	(E) AB
	(E) AC
	(E) CONCRETE
	PROPOSED AC
	(E) FLOWLINE
	(E) RETAINING WALL
	PROPERTY LINE
	PROPOSED SETBACK
	PROPOSED LIMIT OF GRADING
	PROPOSED RETAINING WALL
	PROPOSED AC BERM
	PROPOSED SWALE
	PROPOSED SD
	PROPOSED PERIMETER SD
	PROPOSED SDCO
	PROPOSED CB

SEE SHEET C-2

PRELIMINARY PLANS NOT FOR CONSTRUCTION

R.I Engineering, Inc.
303 Potrero St, Suite 42-202, Santa Cruz, CA 95060
831-425-3901 www.riengineering.com

SITE IMPROVEMENT FOR CORDOBA CENTER
MONTEREY ROAD
SANTA CLARA COUNTY, CA
APN # 779-06-02

PRELIMINARY GRADING PLAN

project no. 10-036-1
date APRIL 2018
scale AS SHOWN
dwg name CIVIL5.DWG

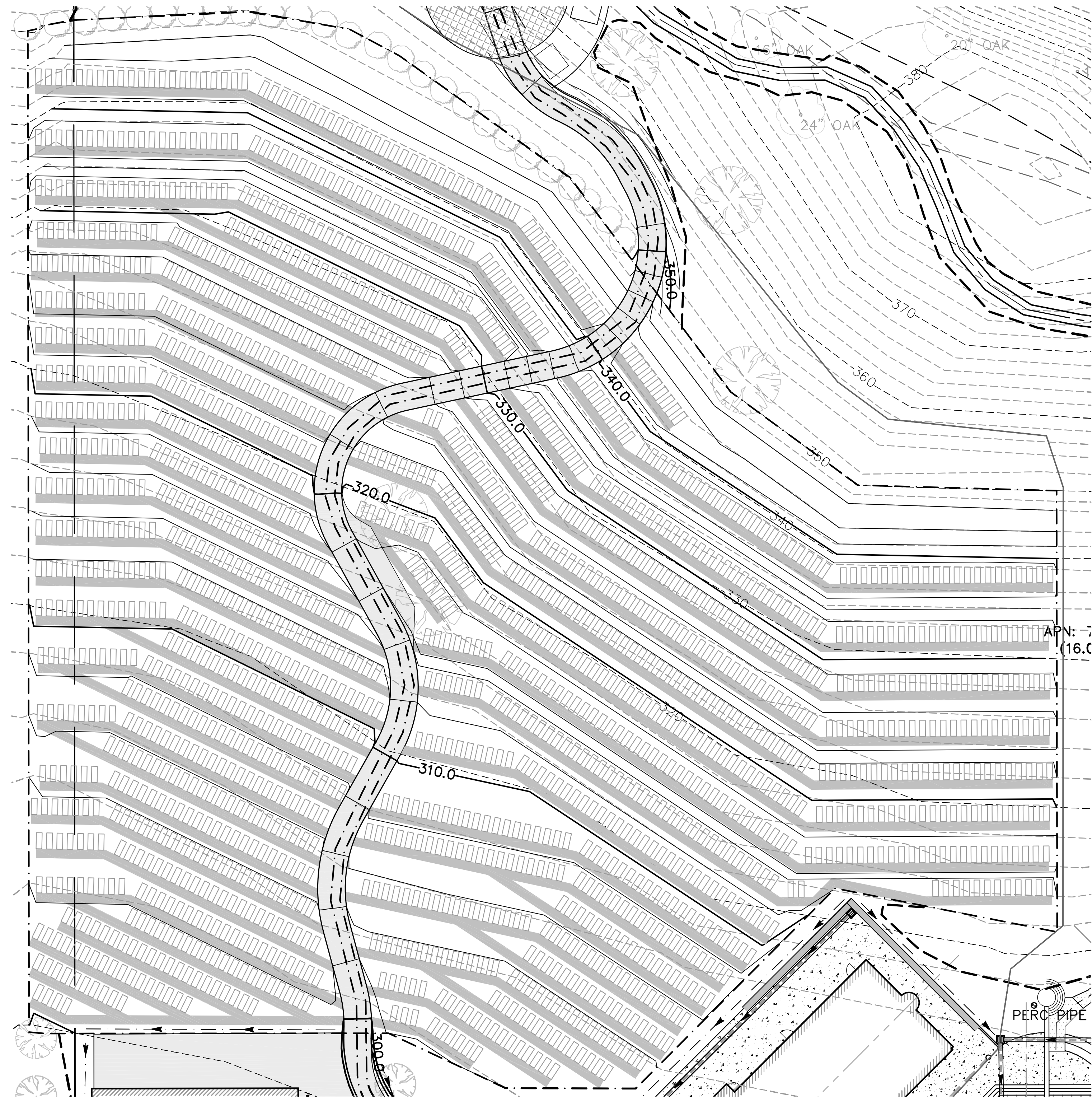**C-1**

PLAN

1 INCH = 50 FEET
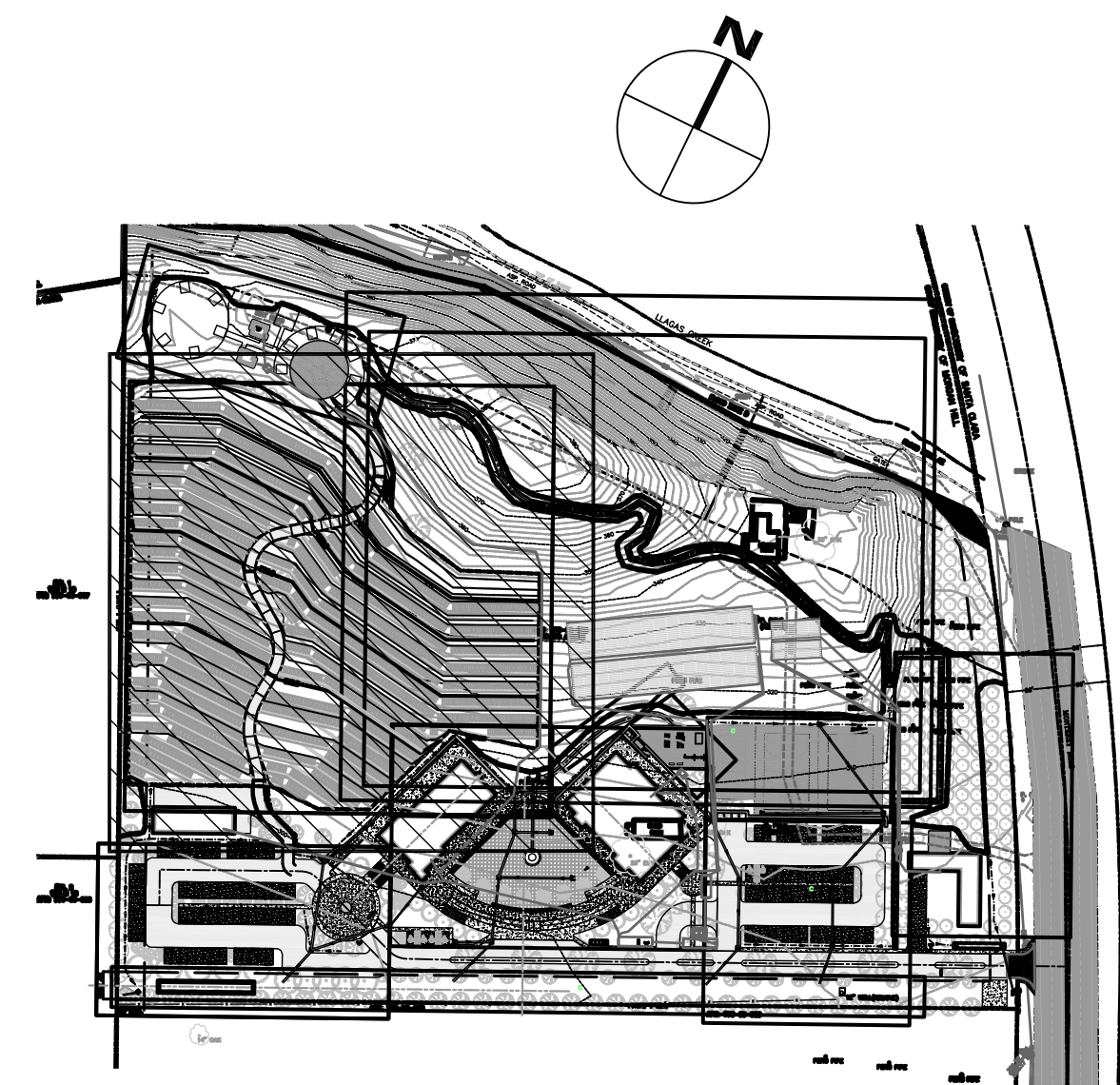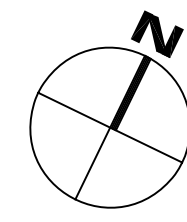
APPLICANT: SOUTH VALLEY ISLAMIC CENTER, INC.   ROAD: MONTEREY ROAD   COUNTY FILE NO.: TBD

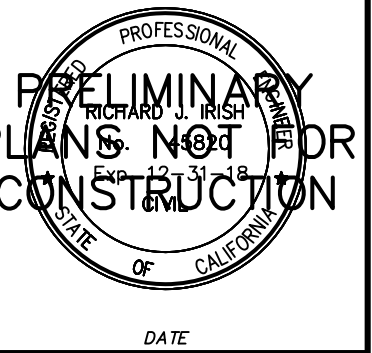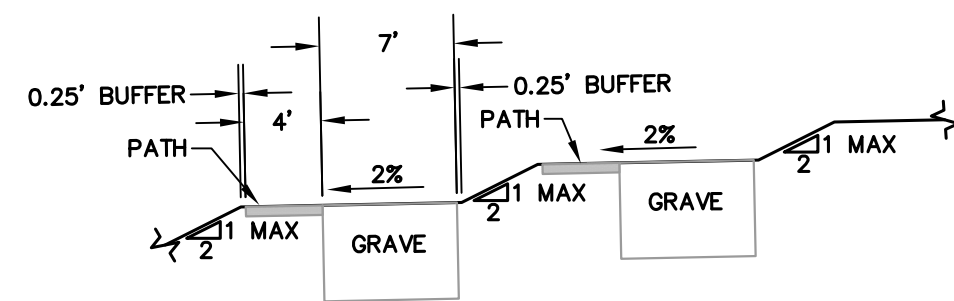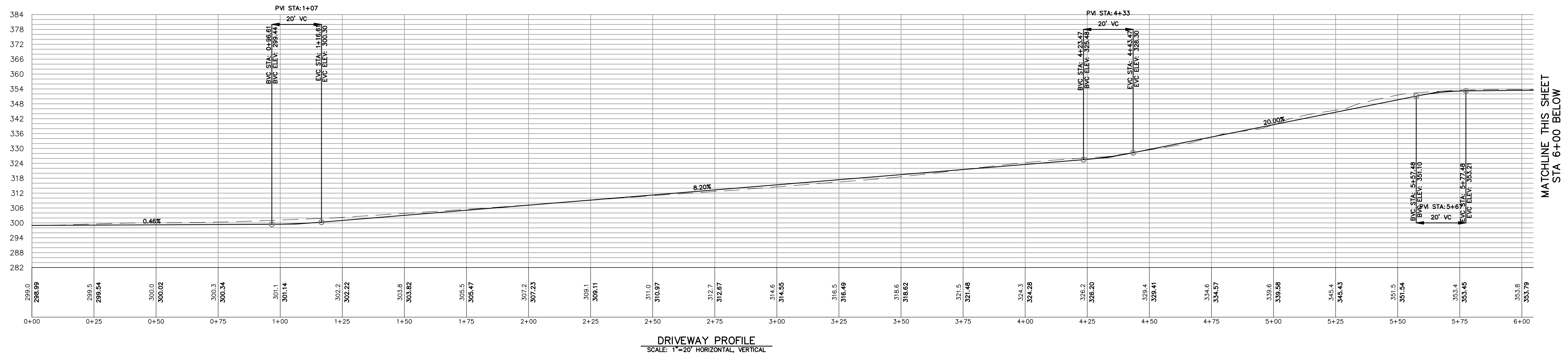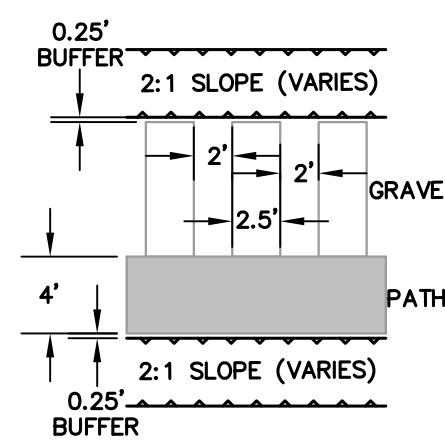PRELIMINARY

PLAN

30'   0   30'   60'

1 INCH = 30 FEET

KEY PLAN
SCALE: 1" = 200'

PRELIMINARY
PLANS NOT FOR
CONSTRUCTION

SITE IMPROVEMENT
FOR
CORDOBA CENTER
MONTEREY ROAD
SANTA CLARA COUNTY, CA
APN # 779-06-02

CEMETERY GRADING PLAN

project no.
10-036-1
date
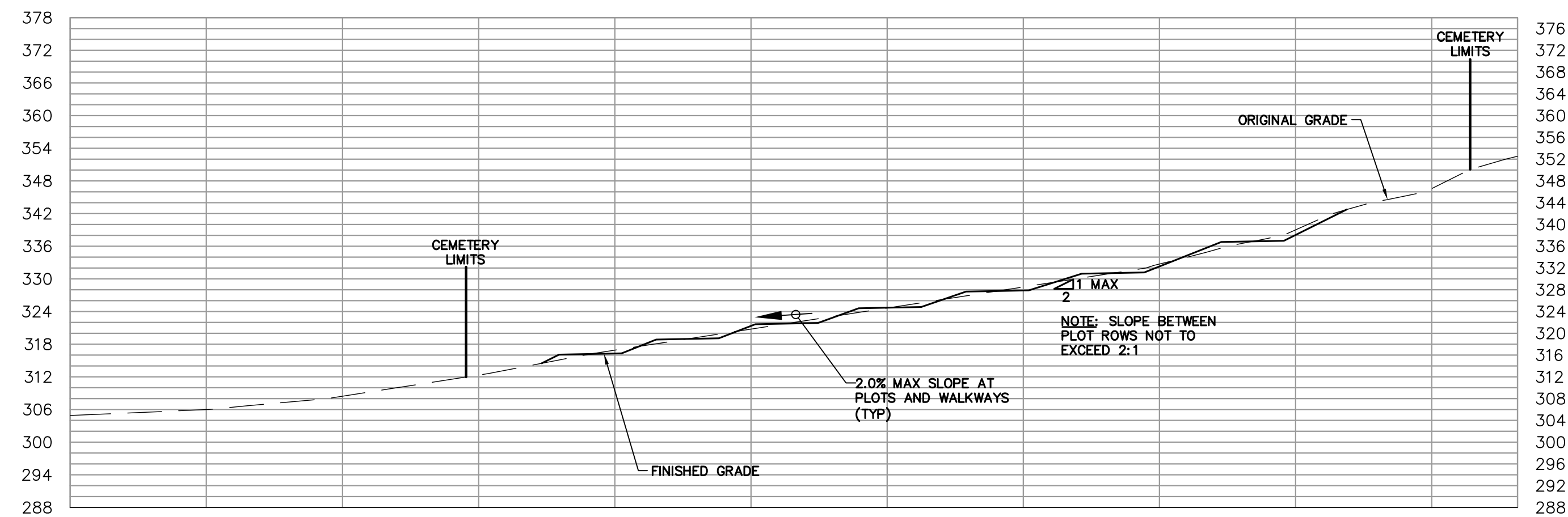APRIL 2018
scale
AS SHOWN
dwg name
CIVIL5.DWG

C-2

PRELIMINARY

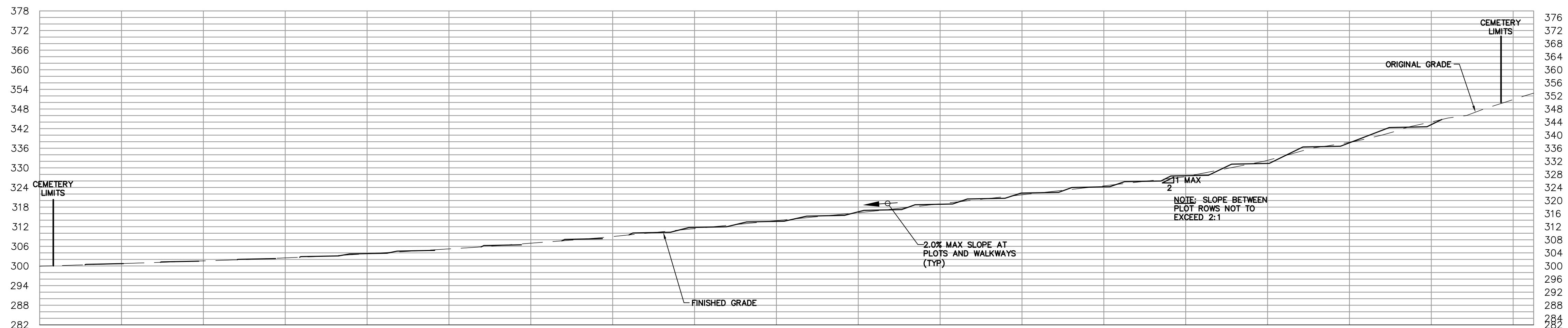APPLICANT: SOUTH VALLEY ISLAMIC CENTER, INC.   ROAD: MONTEREY ROAD   COUNTY FILE NO.:   TBD

DRIVEWAY PROFILE
SCALE: 1"=20' HORIZONTAL, VERTICAL

PVI STA:1+07
20' VC
BVC STA: 0+96.61 BVC ELEV: 299.44
EVC STA: 1+16.61 EVC ELEV: 300.30

PVI STA:4+33
20' VC
BVC STA: 4+23.47 BVC ELEV: 325.48
EVC STA: 4+43.47 EVC ELEV: 328.30

BVC STA: 5+57.48 BVC ELEV: 351.10
PVI STA: 5+67.48
20' VC
EVC STA: 5+77.48 EVC ELEV: 353.21

0.46%
8.20%
20.00%

MATCHLINE THIS SHEET
STA 6+00 BELOW

SECTION

0.25' BUFFER
PATH
7'
0.25' BUFFER
4'
2%
2%
2%
GRAVE
GRAVE
2:1 MAX
2:1 MAX
2:1 MAX

NOTE: SLOPE BETWEEN PLOT ROWS NOT TO EXCEED 2:1. 2.0% MAX SLOPE AT PLOTS AND WALKWAYS (TYP)

GRAVE LAYOUT
NTS

0.25' BUFFER
2:1 SLOPE (VARIES)
2' 2'
2.5'
GRAVE
PATH
4'
2:1 SLOPE (VARIES)
0.25' BUFFER

PLAN VIEW

SECTION A-A
SCALE: 1"=20' HORIZONTAL, VERTICAL

CEMETERY LIMITS
CEMETERY LIMITS
ORIGINAL GRADE
2:1 MAX
NOTE: SLOPE BETWEEN PLOT ROWS NOT TO EXCEED 2:1
2.0% MAX SLOPE AT PLOTS AND WALKWAYS (TYP)
FINISHED GRADE

DRIVEWAY PROFILE
SCALE: 1"=20' HORIZONTAL, VERTICAL

MATCHLINE THIS SHEET
STA 6+00 ABOVE
1.00%
12.15%
BVC STA: 6+38.94 BVC ELEV: 353.82
PVI STA: 6+49
20' VC
EVC STA: 6+58.94 EVC ELEV: 305.14

SECTION B-B
SCALE: 1"=20' HORIZONTAL, VERTICAL

CEMETERY LIMITS
ORIGINAL GRADE
2:1 MAX
NOTE: SLOPE BETWEEN PLOT ROWS NOT TO EXCEED 2:1
2.0% MAX SLOPE AT PLOTS AND WALKWAYS (TYP)
FINISHED GRADE

C-3

APPLICANT: SOUTH VALLEY ISLAMIC CENTER, INC.   ROAD: MONTEREY ROAD   COUNTY FILE NO.: TBD

PRELIMINARY

SECTION C-C
SCALE: 1"=20' HORIZONTAL, VERTICAL

CEMETERY LIMITS

ORIGINAL GRADE

2:1 MAX

NOTE: SLOPE BETWEEN PLOT ROWS NOT TO EXCEED 2:1

2.0% MAX SLOPE AT PLOTS AND WALKWAYS (TYP)

FINISHED GRADE
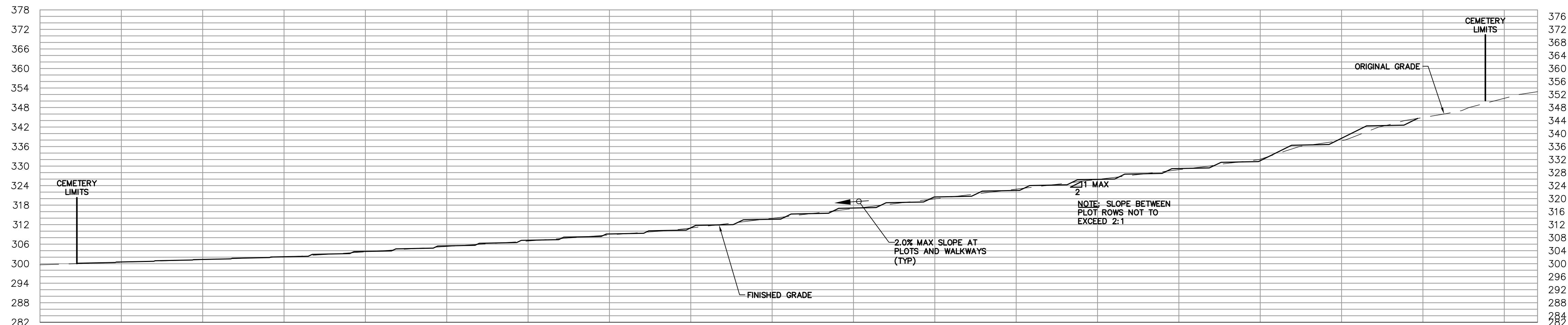
SECTION D-D
SCALE: 1"=20' HORIZONTAL, VERTICAL

CEMETERY LIMITS

CEMETERY LIMITS

ORIGINAL GRADE

2:1 MAX

NOTE: SLOPE BETWEEN PLOT ROWS NOT TO EXCEED 2:1

2.0% MAX SLOPE AT PLOTS AND WALKWAYS (TYP)

FINISHED GRADE

SECTION E-E
SCALE: 1"=20' HORIZONTAL, VERTICAL

CEMETERY LIMITS

ORIGINAL GRADE

2:1 MAX

NOTE: SLOPE BETWEEN PLOT ROWS NOT TO EXCEED 2:1

2.0% MAX SLOPE AT PLOTS AND WALKWAYS (TYP)

FINISHED GRADE
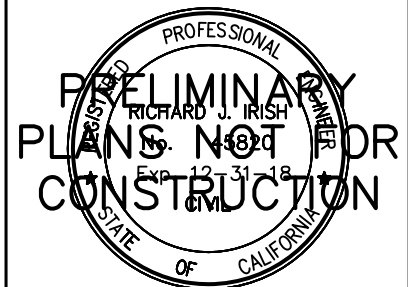
SITE IMPROVEMENT
FOR
CORDOBA CENTER
MONTEREY ROAD
SANTA CLARA COUNTY, CA
APN # 779-06-02

CROSS SECTIONS

project no.
10-036-1
date
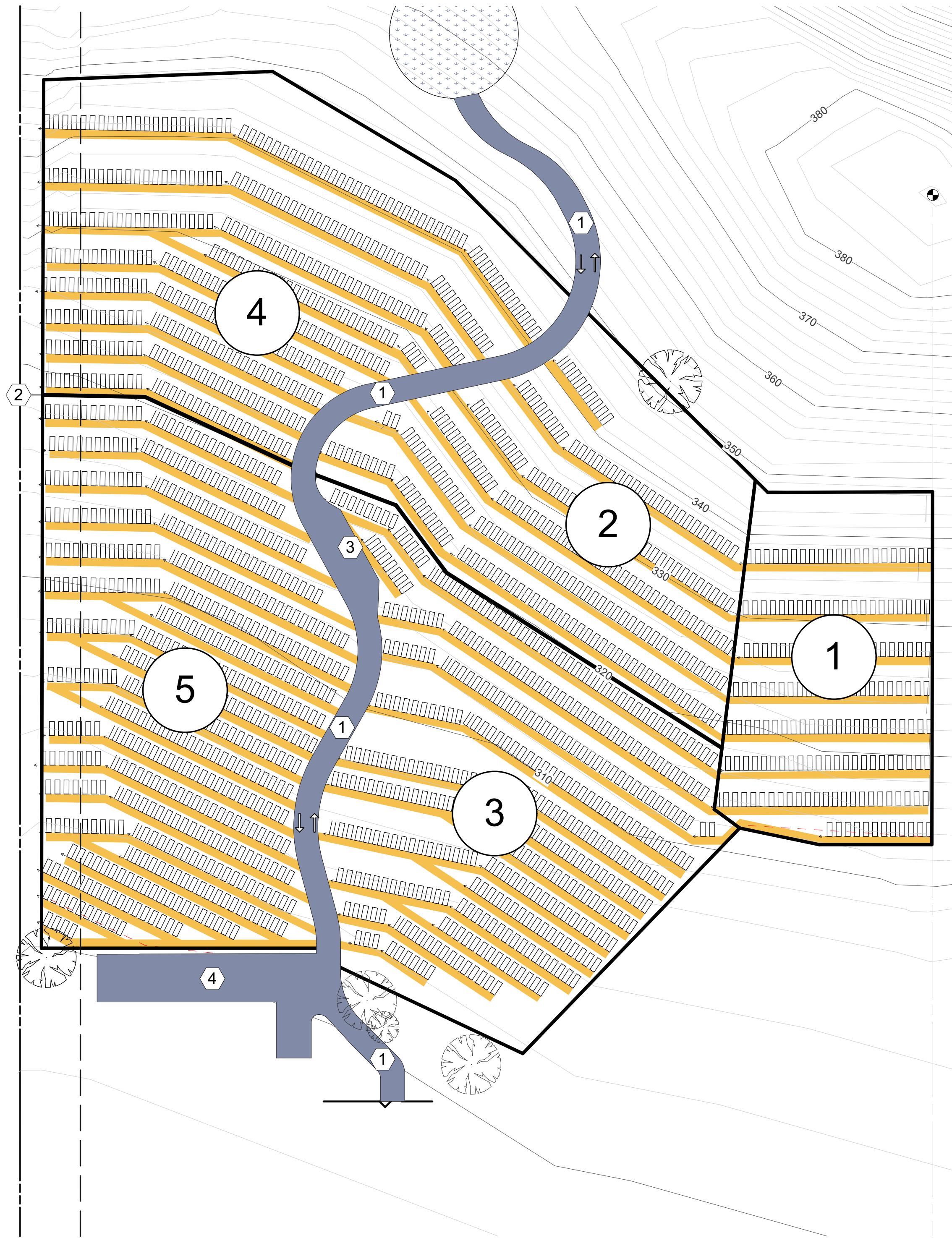APRIL 2018
scale
AS SHOWN
dwg name
CIVIL5.DWG

C-4

APPLICANT: SOUTH VALLEY ISLAMIC CENTER, INC.   ROAD: MONTEREY ROAD   COUNTY FILE NO.: TBD

PRELIMINARY

TYP PLOT LAYOUT DETAIL
SCALE: 1/8" = 1'-0"   DIAGRAMMATIC

4'   7'   4'   7'   4'   7'

2'-6"   2'   2'   2'   2'-6"

Ⓐ
Ⓑ

LEGEND:

Ⓐ PEDESTRIAN PATH -SEE CIVIL DRAWINGS

Ⓑ TYPICAL GRAVEPLOT

380
370
360
350
340
330

④ ③ ② ① ⑤

LEGEND:

① 12' WIDE CEMETERY ROAD

② PHASE BOUNDARY LINE TO FOLLOW CLOSEST CONTOUR

③ DRIVEWAY TURNOUT LANE

④ MAINTENANCE BUILDING PARKING LOT

SHEET NOTES

1. BURIALS SHALL BE SEQUENCED ACCORDING TO THE CEMETERY PHASES SHOWN ON THE PLAN. NO BURIALS WILL OCCUR IN A SUBSEQUENT PHASE UNTIL BURIALS HAVE OCCURRED IN ALL GRAVES IN THE PRECEEDING PHASE.

2. ALL GRAVE MARKERS WILL BE FLAT MARKERS ON GRADE WITHOUT ANY VERTICAL PROJECTIONS.

3. SLOPES BETWEEN GRAVE TERRACES WILL BE LANDSCAPED WITH MEADOW GRASSES TO REPLICATE THE APPEARANCE OF A NATURAL MEADOW AS SHOWN ON THE CORDOBA PROJECT LANDSCAPE PLAN PREPARED BY DRAKE DESIGN ASSOCIATES, DATED 5/5/2016.
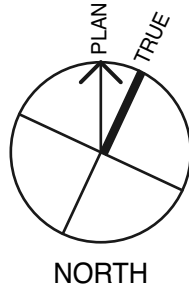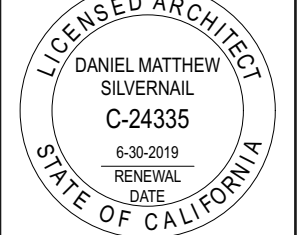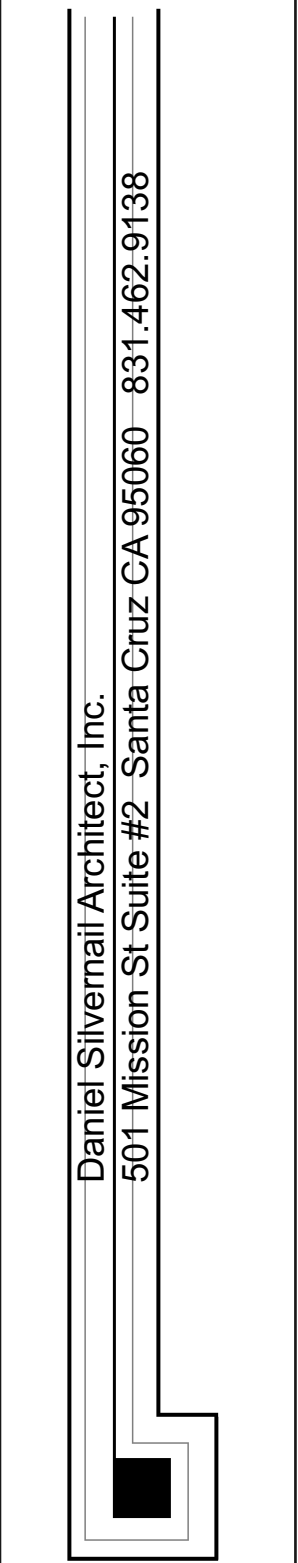
CEMETERY PLAN DETAIL
SCALE: 1" = 50'   PLOT COUNT: 1,661 +/-

PLAN
TRUE
NORTH