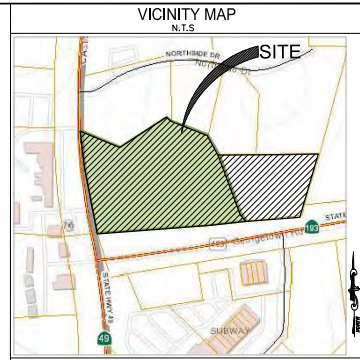
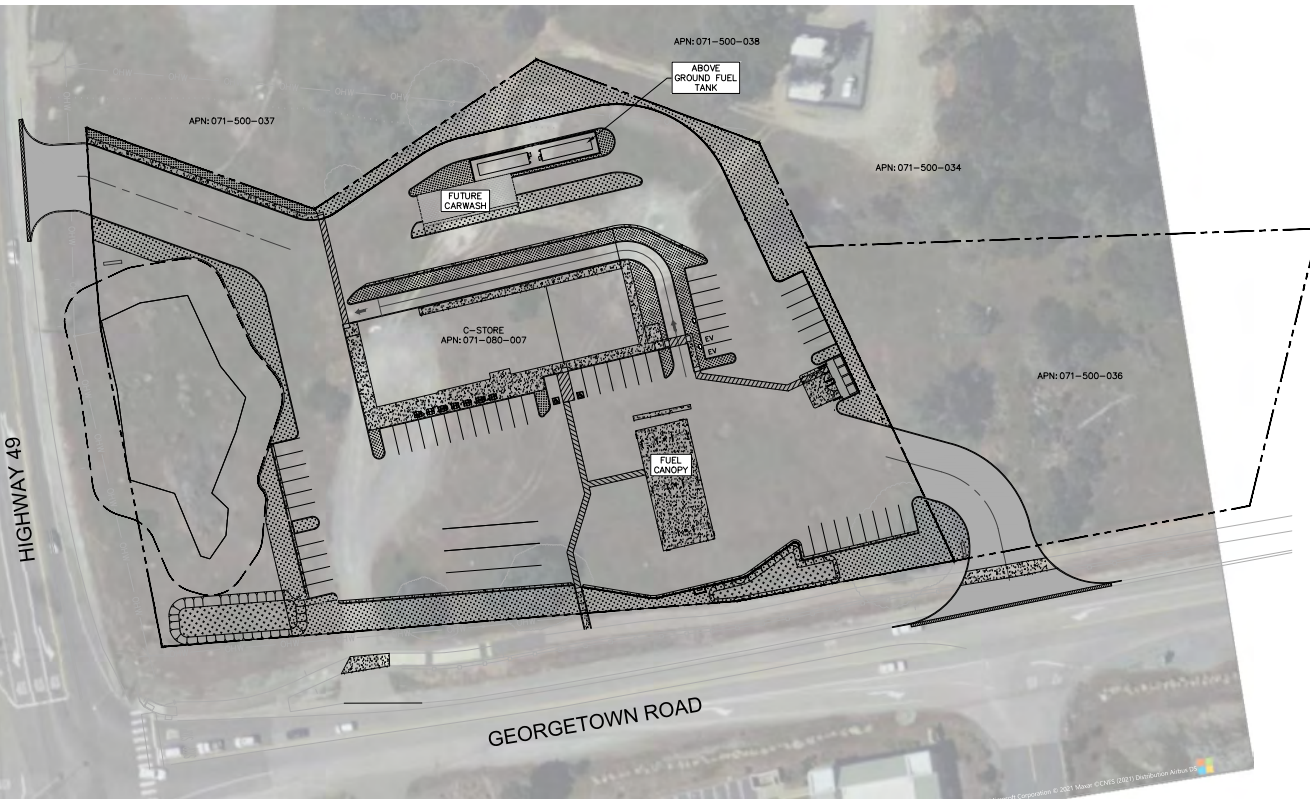


CIVIL IMPROVEMENTS PLANS FOR NE CNR OF HWY-49 & GEORGETOWN RD COOL, CA 95614 APN: 071-080-007

LEGEND	
EXISTING	NEW
BOUNDARY	---
CONCRETE	
ASPHALT	
STORM DRAIN (SD)	
WATER LINE (W)	
SANITARY SEWER (SS)	
WATER METER	
REDUCED PRESSURE BACKFLOW PREVENTER	
SANITARY CLEANOUT	
STORM CLEANOUT	
CATCH BASIN	
POINT OF CONNECTION	
RETAINING WALL	
LANDSCAPE	
BIORETENTION	
FUTURE CARWASH	

ABBREVIATIONS	
AT	N/A NOT APPLICABLE
A.B.	AGGREGATE BASE
A.C.	ASPHALT CONCRETE
A.P.N.	ASSESSOR'S PARCEL NUMBER
ARV	AIR RELEASE VALVE
BW	BOTTOM OF WALL
BC	BEGINNING OF CURVE
BOC	BACK OF CURB
BOW	BOTTOM OF WALL
BDRY	BOUNDARY
BSBL	BUILDING SETBACK LINE
C & G	CURB AND GUTTER
CIP	CAST IRON PIPE
CL	CENTERLINE
CO	CLEAN OUT
CB	CATCH BASIN
CONST.	CONSTRUCTION
CONC.	CONCRETE
CONT.	CONTINUE
C.P.	CONCRETE PIPE
CT	COURT
D.I.	DRAIN INLET
DIA.	DIAMETER
DEMO.	DEMOLITION
DRWY.	DRIVE WAY
DIP	DUCTILE IRON PIPE
E	EAST
EA	EACH
E.P.	EDGE OF PAVEMENT
E.P.B.	ELECTRIC POLE BOX
ES	END OF CURVE
ES	EDGE OF SHOULDER
ESMT.	EASEMENT
ELECT.	ELECTROUTER
ELEV.	ELEVATION
EX.	EXISTING
FL	FLOWLINE
FG	FINISHED GRADE
FOC	FACE OF CURB
GB	GRADE BREAK
GR.	GRATE ELEVATION
HORIZ	HORIZONTAL
INV.	PIPE INVERT ELEVATION
LP	LOW POINT
LOG	LIP OF GUTTER
MH	MANHOLE
(N)	NEW
N/A	NOT APPLICABLE
NTS	NOT TO SCALE
OC	ON CENTER
OG	ORIGINAL GROUND
P	PAVEMENT GRADE
P.L.	PROPERTY LINE
PP	POWER POLE
P.U.E.	PUBLIC UTILITY EASEMENT
PRC	POINT OF RETURN CURVATURE
PT	POINT
R	RADIUS
RC	RELATIVE COMPACTION
RTN	RETURN
RM	MANHOLE RIM ELEVATION
RV	RESISTANCE VALVE
R.C.P.	REINFORCED CONCRETE PIPE
ROW	RIGHT OF WAY
SBL	SET BACK LINE
SHT	SHEET
SNS	STREET NAME SIGN
STA	STATION
STD	STANDARD
SS	SANITARY SEWER
SD	STORM DRAIN
MH(S)	STORM DRAIN MANHOLE
MH(S)	SANITARY SEWER MANHOLE
S.S.	SEWER SERVICE
STD.	STANDARD
SW	SIDEWALK
TPW	TOP OF WATER
T.C.	TOP OF CURB
THRU	THROUGH
T.O.P	TOP OF PIPE
T.G.	TOP OF GRADE
TOW	TOP OF WALL
TPE	TREE PLANTING EASEMENT
T.W.	TOP OF WALL ELEVATION
TYP.	TYPICAL
V.C.P.	VITRIFIED CLAY PIPE
VERT	VERTICAL
VG	VALLEY GUTTER
W	WATER LINE
W.S.	WATER SERVICE
+ -	PLUS OR MINUS (NOT EXACT)
W/	WITH



SHEET INDEX (CIVIL)	
G-1.0	COVER SHEET
T-1.0	TOPOGRAPHIC SURVEY
C-1.0	DEMOLITION PLAN
C-2.0	DIMENSION CONTROL PLAN
C-3.0	SITE IMPROVEMENT PLAN
C-4.0	GRADING AND DRAINAGE PLAN
C-4.1	SITE SECTIONS-1
C-4.2	SITE SECTIONS-2
C-5.0	STORMWATER MANAGEMENT PLAN
C-6.0	UTILITY PLAN

PROPERTY DETAILS	
APN	071-080-007
AREA	3.83 AC
ZONING	CG
ADDRESS	NE CNR OF HWY- 49 & GEORGETOWN RD, COOL, CA 95614

PROJECT SCOPE OF WORK	
FUTURE CAR WASHING & EQUIPMENT ROOM	1,452 SQ.FT
BUILDING (DRIVE THRU) & C-STORE SPACE	9,787 SQ.FT
FUEL CANOPY	4,284 SQ.FT
CONCRETE PAVEMENT	9,128 SQ.FT
ASPHALT PAVEMENT	96,412 SQ.FT
ONSITE REGULAR CAR PARKING	61
ONSITE REGULAR CAR LOADING PARKING	2
ONSITE ADA CAR PARKING	2
ONSITE TRAILER PARKING	2
SITE ENTRANCE	2

NOTE: REFER ARCHITECTURAL PLANS FOR EXACT SQUARE FOOTING OF BUILDINGS.

PROJECT DIRECTORY	
CIVIL ENGINEER OF RECORD: MANJIT SAINI, PE 597 ROUGH AND READY RD SAN JOSE, CA 95133 Phone: (408) 313-5400 Email: msaini@engco.com	ARCHITECTURE: MHA DESIGN SERVICES 11584 FRANKS DRIVE GRASS VALLEY, CA 95949 M.HIGSBYTHAM Phone: (530) 263-5899 Email: melh.architecture@gmail.com
OWNER CONTACT: Phone: - - - - - Email: - - - - -	

TOPOGRAPHIC AND BOUNDARY SURVEY
TOPOGRAPHIC SURVEY COMPLETED BY OTHERS SEE SHEET T-2.0.

ENGINEERS NOTE TO CONTRACTOR:
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UNDERGROUND SERVICE ALERT			
Call: TOLL FREE 1-800-227-2600 KNOW WHAT'S BELOW CALL BEFORE YOU DIG TWO WORKING DAYS BEFORE YOU DIG			
NO.	BY	DATE	REVISION

PREPARED BY:

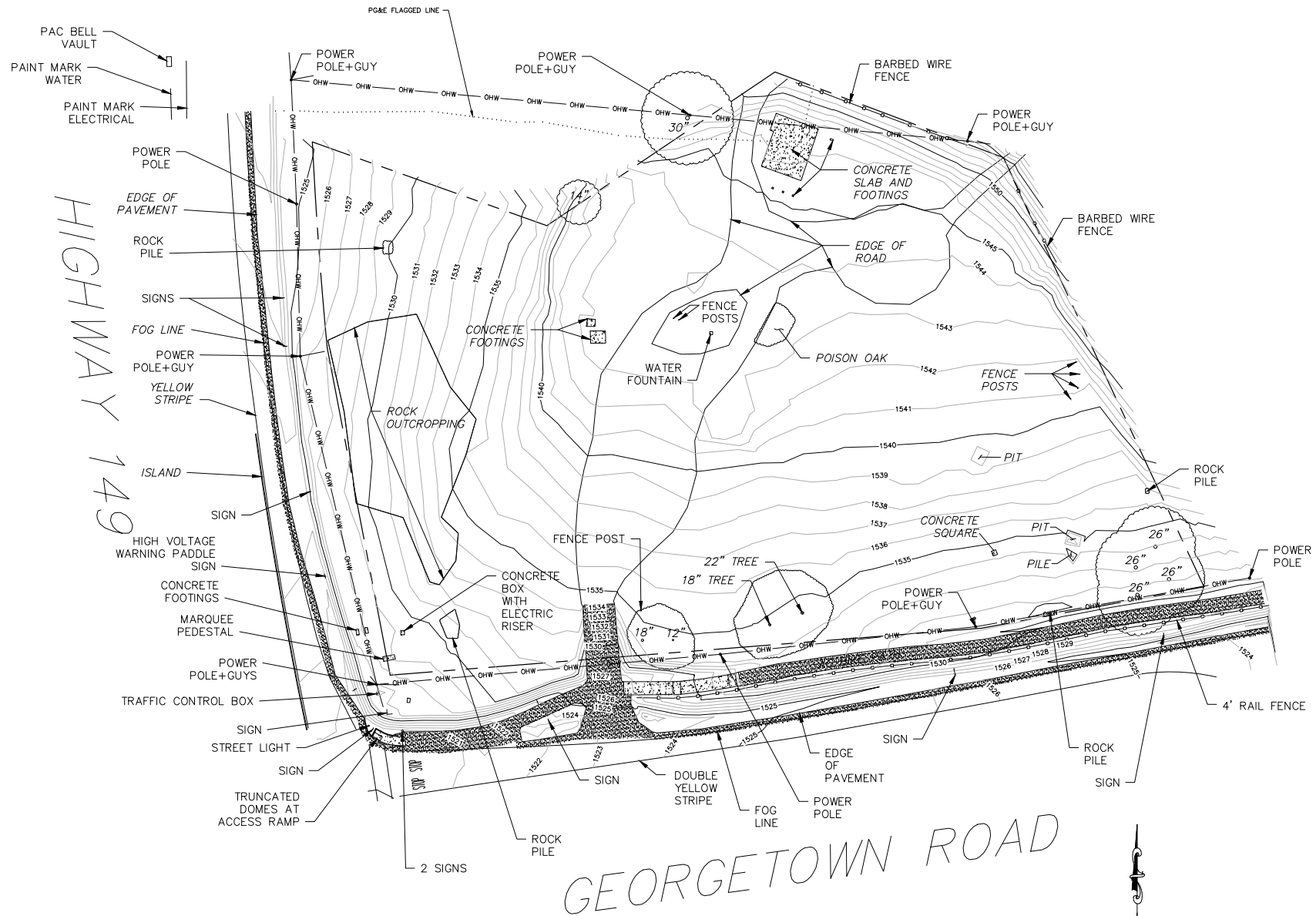
Manjit Saini

PREPARED FOR:
**NE CNR OF HWY- 49 & GEORGETOWN RD
COOL, CA 95614
APN: 071-080-007**

TITLE:
COVER SHEET

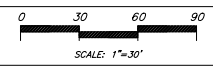
DATE:	11/13/2023
DESIGNED BY:	N.GORAYA
DRAWN BY:	P. SINGH
CHECKED BY:	M. SAINI
APPROVED BY:	M. SAINI

G-1.0



HIGHWAY 149

GEORGETOWN ROAD



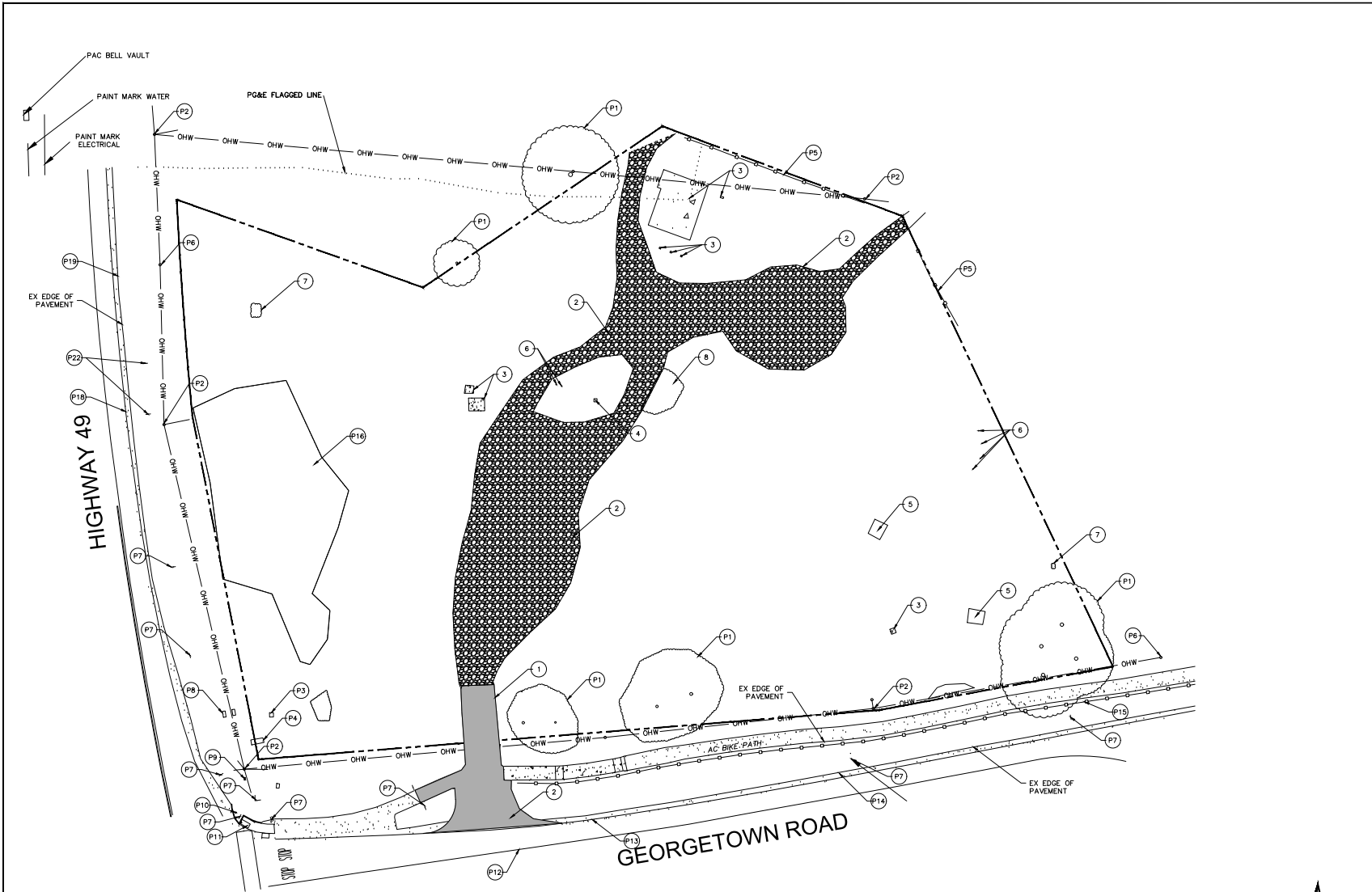
EL DORADO COUNTY

APN 071-080-007
COOL, CA

Drawn By: ACJ
Date: 10/11/2021
Scale: 1"=30'
Job No.: 21-124

Rosen
ROY E. ROSEN LSS089
10/17/2021

T-1.0
SHEET
2
OF 8



LEGEND	
	BOUNDARY
	EX GRAVEL ROAD (22055 SQ.FT)
	EX ASPHALT ROAD (775 SQ.FT)
	EX CONCRETE
	EX AC BIKE PATH
	OHW
	SIGN
	TREE
	BARBED FENCE

DEMOLITION KEY PLAN NOTES	
1	DEMOLISH EX. ASPHALT ROAD.
2	DEMOLISH EX. GRAVEL ROAD & DRIVEWAY.
3	DEMOLISH EX. CONCRETE SLAB & FOOTING.
4	DEMOLISH EX. WATER FOUNTAIN.
5	DEMOLISH EX. PIT.
6	REMOVE EX. FENCE POST.
7	NOT USE
8	REMOVE EX. POISON OAK TREE.

PROTECT SITE FACILITIES	
P1	EX. TREE TO REMAIN. PROTECT IN PLACE.
P2	EX. POWER POLE & GUY WIRE TO REMAIN. PROTECT IN PLACE.
P3	EX. CONCRETE BOX WITH ELECTRIC RISER TO REMAIN PROTECT IN PLACE.
P4	EX. MARQUEE PEDESTAL TO REMAIN. PROTECT IN PLACE.
P5	EX. BARBED WIRE FENCE TO REMAIN. PROTECT IN PLACE.
P6	RELOCATE EXISTING POWER POLE. COORDINATE WITH PG&E FOR EXACT LOCATION.
P7	EX. SIGN TO REMAIN. PROTECT IN PLACE.
P8	EX. CONCRETE FOOTING TO REMAIN. PROTECT IN PLACE.
P9	EX. TRAFFIC CONTROL BOX TO REMAIN. PROTECT IN PLACE.
P10	EX. STREET LIGHT TO REMAIN. PROTECT IN PLACE.
P11	EX. TRUNCATED DOMES AT ACCESS RAMP TO REMAIN. PROTECT IN PLACE.
P12	EX. DOUBLE YELLOW STRIPE TO REMAIN. PROTECT IN PLACE.
P13	EX. FOG LINE TO REMAIN. PROTECT IN PLACE.
P14	EX. EDGE OF PAVEMENT TO REMAIN. PROTECT IN PLACE.
P15	EX. 4' FENCE TO REMAIN. PROTECT IN PLACE.
P16	EX. ROCK. PROTECT IN PLACE.

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NO.	BY	DATE	REVISION

PREPARED BY:

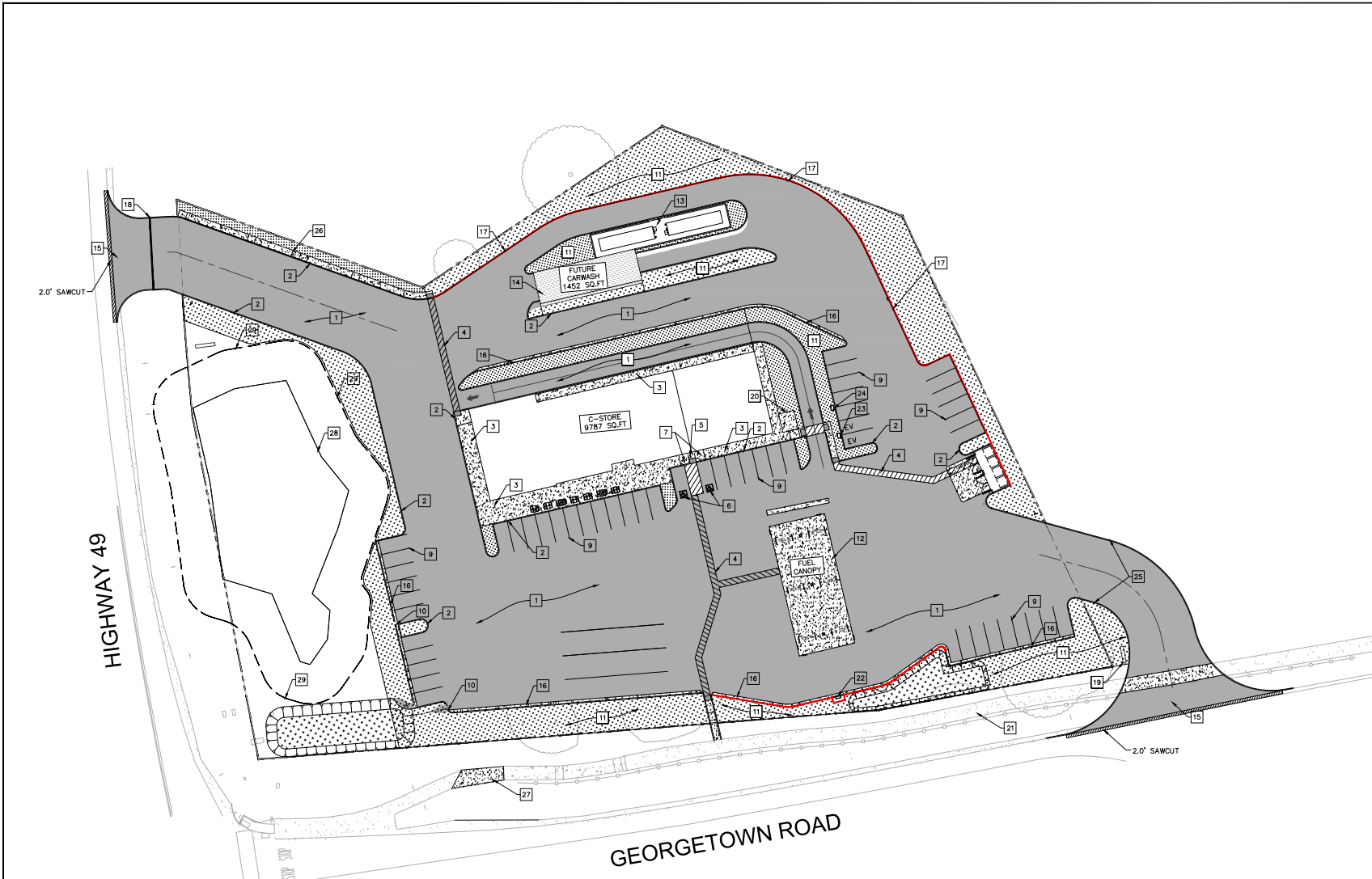
Manjit Saini

PREPARED FOR:
 NE CNR OF HWY- 49
 & GEORGETOWN RD
 COOL, CA 95614
 APN: 071-080-007

TITLE:
 DEMOLITION PLAN

DATE:	11/13/2023
DESIGNED BY:	N.GORAYA
DRAWN BY:	P. SINGH
CHECKED BY:	M. SAINI
APPROVED BY:	M. SAINI

C-1.0



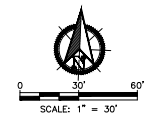
LEGEND

	BOUNDARY
	LANDSCAPE
	ASPHALT
	CONCRETE
	LEACH LINES

- KEY PLAN NOTES**
- ASPHALT PAVEMENT.
 - TYPE-4 BARRIER CURB PER COUNTY OF EL DORADO STANDARD PLAN 104.
 - CONCRETE SIDEWALK WITH 2.0% MAX. CROSS SLOPE AND 5.0% MAX. LONGITUDINAL SLOPE.
 - ACCESSIBLE PATH OF TRAVEL WITH 5.0% MAX. LONGITUDINAL SLOPE AND 2.0% MAX. TRANSVERSE SLOPE.
 - DEPRESSED CURB & TRUNCATED DOMES/ DETECTABLE WARNINGS MIN. 3" DEEP PER CBC CODE.
 - ACCESSIBLE PARKING STALL, ACCESSIBLE AISLE, WHEELSTOP & SIGN R-89.
 - ACCESSIBLE CURB RAMP PER CBC CODE.
 - WHEEL STOP.
 - 4" WHITE PARKING STALL STRIPE.
 - 2' CURB CUT. REFER SHEET C-4.2 FOR DETAIL.
 - LANDSCAPE IMPROVEMENT AREA.
 - GAS CANOPY (REFER ARCHITECTURE PLANS).
 - ABOVE GROUND FUEL TANKS (REFER ARCHITECTURE PLANS/FUEL PLANS).
 - FUTURE CARWASH.
 - DRIVEWAY PER COUNTY STANDARD DRAWING 103C.
 - CONSTRUCT TYPE-2 VERTICAL CURB & GUTTER PER COUNTY OF EL DORADO STANDARD PLAN 104.
 - RETAINING WALL FOR DETAIL REFER ARCHITECTURE/STRUCTURAL PLAN.
 - 12" RCP STORM DRAIN.
 - MONUMENT SIGN; EXACT LOCATION AND DESIGN SHALL BE DETERMINED BASED ON COUNTY REQUIREMENTS.
 - (6) BICYCLE PARKING SPACES, BICYCLE RACKS SHALL BE DESIGNED TO ENABLE A BICYCLE TO BE LOCKED TO THE RACK AND SHALL BE INSTALLED IN A MANNER THAT ALLOWS ADEQUATE ACCESS TO THE BICYCLE
 - RECONSTRUCT ADJACENT TYPE 2 BICYCLE PATH AS REQUIRED TO ALLOW FOR NEW DRIVEWAY CUT.
 - FUEL DISPENSER FOR RED DIESEL.
 - LEVEL 2 EVC STATION WITH CHARGING PORTS FOR TWO STALLS.
 - INSTALL INFRASTRUCTURE FOR FUTURE LEVEL 2 EVC STATION WITH CHARGING FOR TWO ADDITIONAL STALLS.
 - SPLIT-FACED CMU RETAINING WALL.
 - ADA WALKWAY.
 - OFF-SITE CONCRETE WALKWAY JOIN WITH EX WALKWAY.
 - EXISTING ROCK FORMATIONS IN THIS AREA SHALL REMAIN UNDISTURBED AND SHALL BE PROTECTED WITH A 15 TO 20 FOOT "NO WORK" BUFFER THAT IS IDENTIFIED WITH BUFFER FENCING THAT SHALL REMAIN IN PLACE FOR THE DURATION OF THE PROJECT CONSTRUCTION.
 - BUFFER FENCING TO IDENTIFY UNDISTURBED AREA AROUND ROCK FORMATIONS SHALL REMAIN IN PLACE THROUGH CONSTRUCTION.

PROPOSED CONDITIONS AREA DESCRIPTION

AREA	AC	SQ FT
TOTAL LOT AREA	3.83	1,66,706
TOTAL DRAINAGE AREA	3.83	1,66,706
IMPERVIOUS AREA		
ASPHALT	2.21	96,400
CONCRETE (WALKWAY, CURB, USE'S & FUEL CANOPY)	0.21	9,128
BUILDING AREA (C-STORE, OSR, VISITOR CENTER)	0.22	9,787
FUTURE CARWASH	0.03	1,452
TOTAL IMPERVIOUS AREA	2.98	1,16,707
PERVIOUS AREA		
LANDSCAPE AREA	1.67	69,380



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NO.	BY	DATE	REVISION

PREPARED BY:

Manjit Saini

PREPARED FOR:

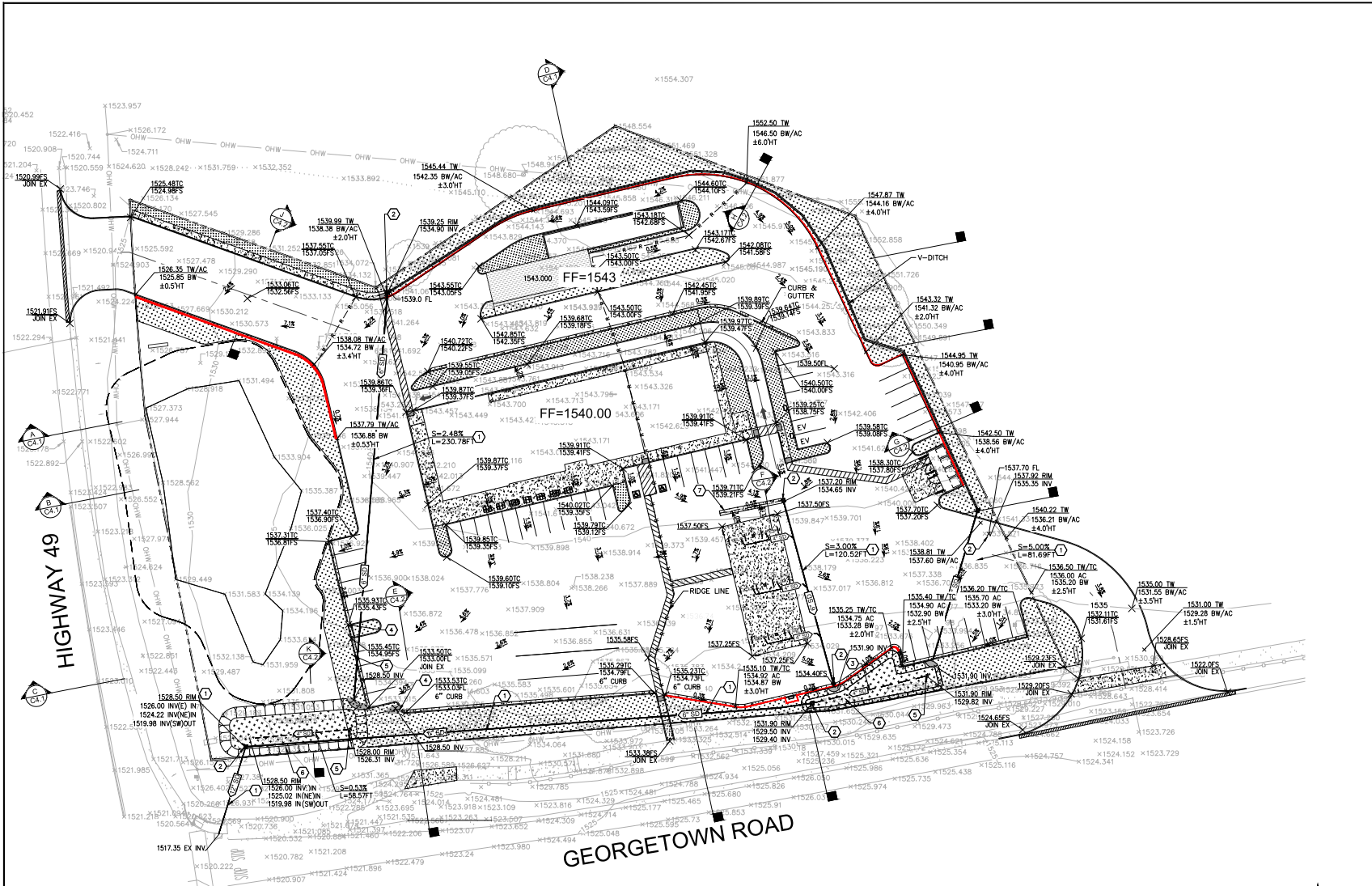
NE CNR OF HWY- 49
 & GEORGETOWN RD
 COOL, CA 95614
 APN: 071-080-007

TITLE:

SITE IMPROVEMENT PLAN

DATE:	11/13/2023
DESIGNED BY:	N.GORAYA
DRAWN BY:	P. SINGH
CHECKED BY:	M. SAINI
APPROVED BY:	M. SAINI

C-3.0



LEGEND

	BOUNDARY
	LANDSCAPE
	ASPHALT
	CONCRETE
	BIORETENTION
	LEACH LINES
	STORM DRAIN
	PERFORATED STORM DRAIN
	CATCH BASIN
	STORM CLEANOUT
	SWALE
	FLOW LINE
	RIDGE LINE
	RETAINING WALL
	SLOPE AND DIRECTION OF FLOW
	EXISTING ELEVATION
	NEW ELEVATION

ABBREVIATIONS

A.B.	AGGREGATE BASE
A.C.	ASPHALT CONCRETE
B.W.	BOTTOM OF WALL
C & G	CURB AND GUTTER
ELEV.	ELEVATION
EX.	EXISTING
FF	FINISH FLOOR
FL	FLOWING
FG	FINISHED GRADE
FS	FINISH SURFACE
INV.	PIPE INVERT ELEVATION
(N)	NEW
T.C.	TOP OF CURB
TW	TOP OF WALL ELEVATION
V	VERTICAL
+ -	PLUS OR MINUS (NOT EXACT)

- STORMDRAIN SYSTEM NOTES**
- INSTALL PVC SDR 35 STORM DRAIN, SIZE PER PLAN
 - NOTED CATCH BASIN PER COUNTY STANDARDS.
 - NOT USED.
 - 24" CURB OUT. REFER SHEET C4.2 FOR DETAIL.
 - INSTALL STORM CLEANOUT AS PER COUNTY STANDARDS.
 - BIORETENTION AREA.
 - 3' WIDE CONCRETE VALLEY GUTTER. REFER SHEET C-5.0 FOR DETAIL.

EARTH WORK QUANTITIES

CUT:	7450 CY
FILL:	1180 CY
EXPORT:	6280 CY
IMPORT:	0 CY

NOTE: THE QUANTITIES AS SHOWN HEREON ARE FOR PERMIT AND/OR BONDING PURPOSES ONLY. THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES PRIOR TO THE START OF GRADING AND ACCOUNT FOR DISTRIBUTING ANY EXCESS MATERIAL OR SUPPLYING AND DEFICIENCIES TO BRING SITE TO DESIGN GRADE.

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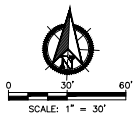
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PREPARED BY:

 Manjit Saini

PREPARED FOR:
 NE CNR OF HWY- 49 & GEORGETOWN RD
 COOL, CA 95614
 APN: 071-080-007

TITLE:
 GRADING & DRAINAG PLAN



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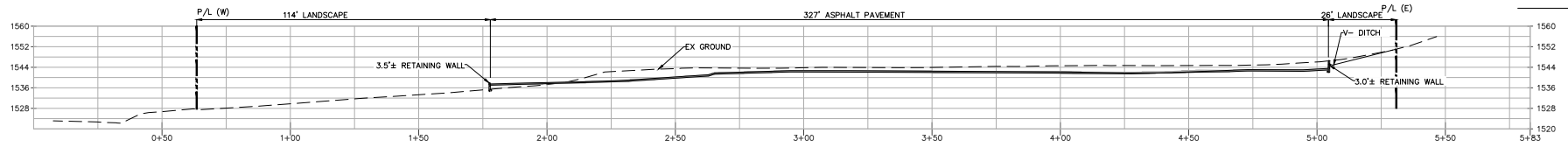
NO.	BY	DATE	REVISION

DATE: 11/13/2023
DESIGNED BY: N.GORAYA
DRAWN BY: P. SINGH
CHECKED BY: M. SAINI
APPROVED BY: M. SAINI

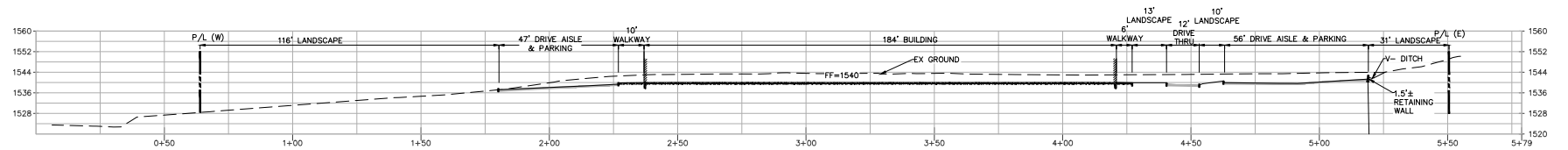
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LEGEND

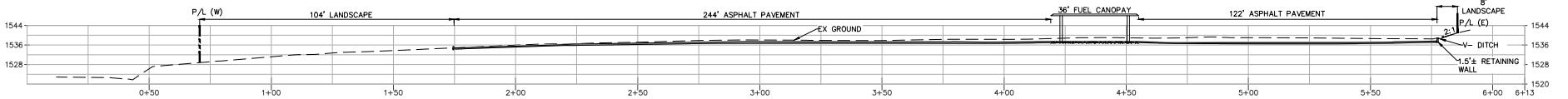
--- EXISTING GROUND
 - - - NEW GROUND



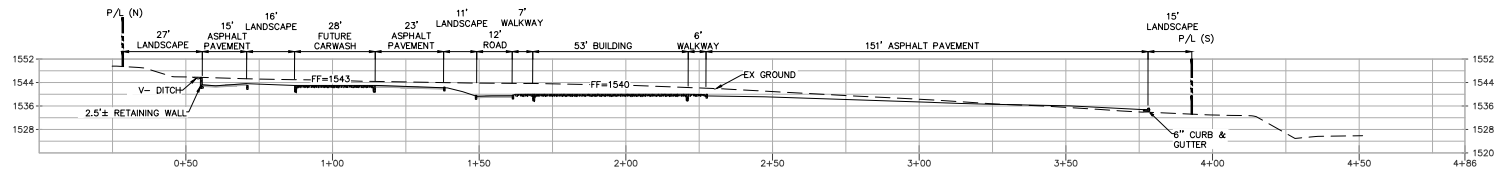
SECTION (A) A
 HORIZONTAL SCALE: 1"=20'
 VERTICAL SCALE: 1"=20'



SECTION (B) B
 HORIZONTAL SCALE: 1"=20'
 VERTICAL SCALE: 1"=20'



SECTION (C) C
 HORIZONTAL SCALE: 1"=20'
 VERTICAL SCALE: 1"=20'



SECTION (D) D
 HORIZONTAL SCALE: 1"=20'
 VERTICAL SCALE: 1"=20'

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UNDERGROUND SERVICE ALERT



Call: TOLL FREE
 1-800-227-2600

KNOW WHAT'S BELOW
 CALL BEFORE YOU DIG

TWO WORKING DAYS BEFORE YOU DIG

NO.	BY	DATE	REVISION

PREPARED BY:



Manjit Saini

PREPARED FOR:

NE CNR OF HWY- 49
 & GEORGETOWN RD
 COOL, CA 95614
 APN: 071-080-007

TITLE:

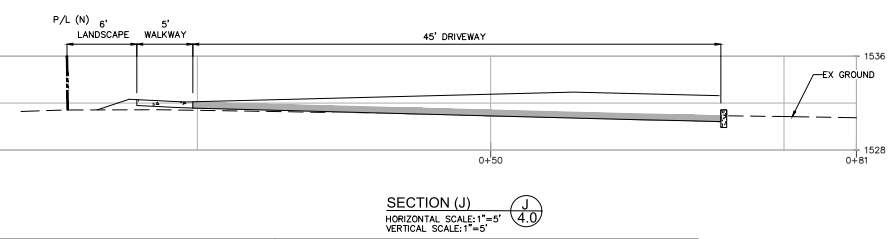
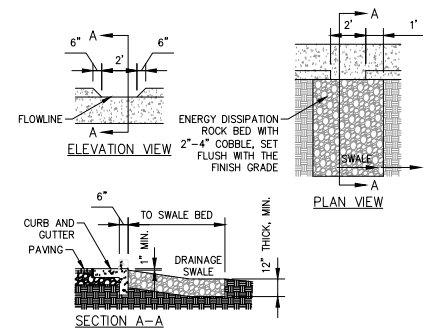
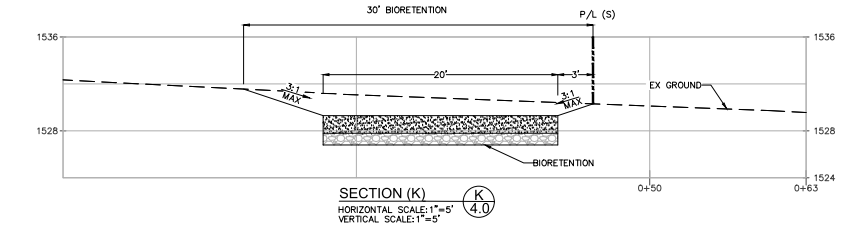
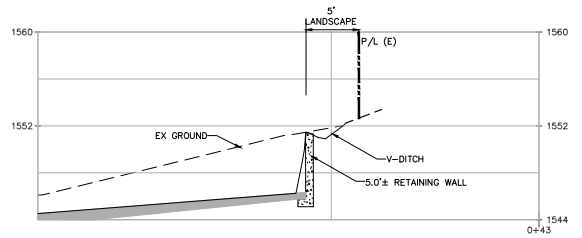
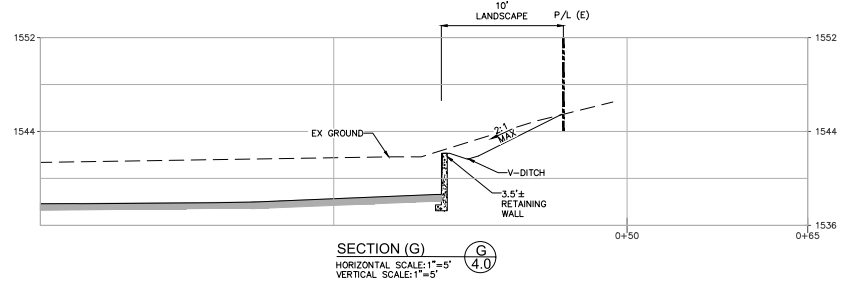
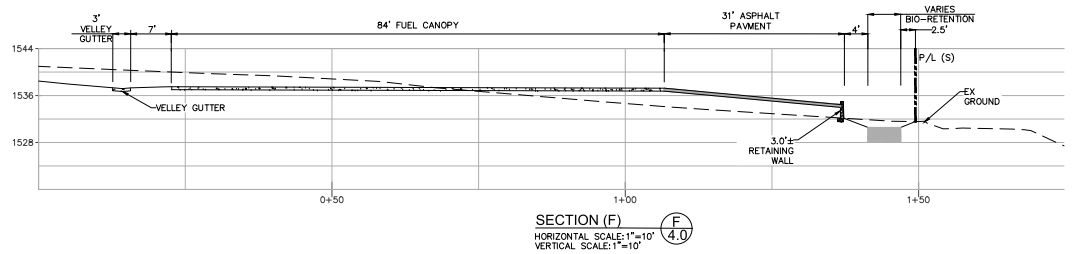
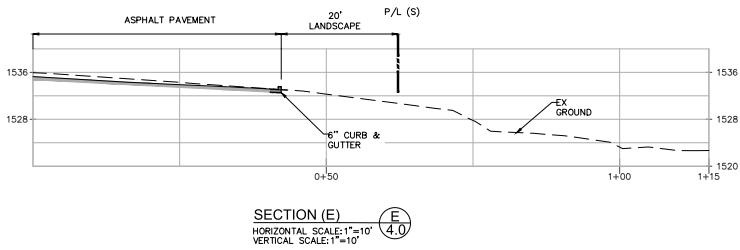
SITE SECTIONS-1

DATE:	11/13/2023
DESIGNED BY:	N.GORAYA
DRAWN BY:	P. SINGH
CHECKED BY:	M. SAINI
APPROVED BY:	M. SAINI

C-4.1

LEGEND

- EXISTING GROUND
- NEW GROUND



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NO.	BY	DATE	REVISION

PREPARED BY:

Manjit Saini

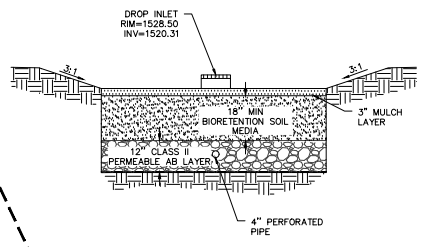
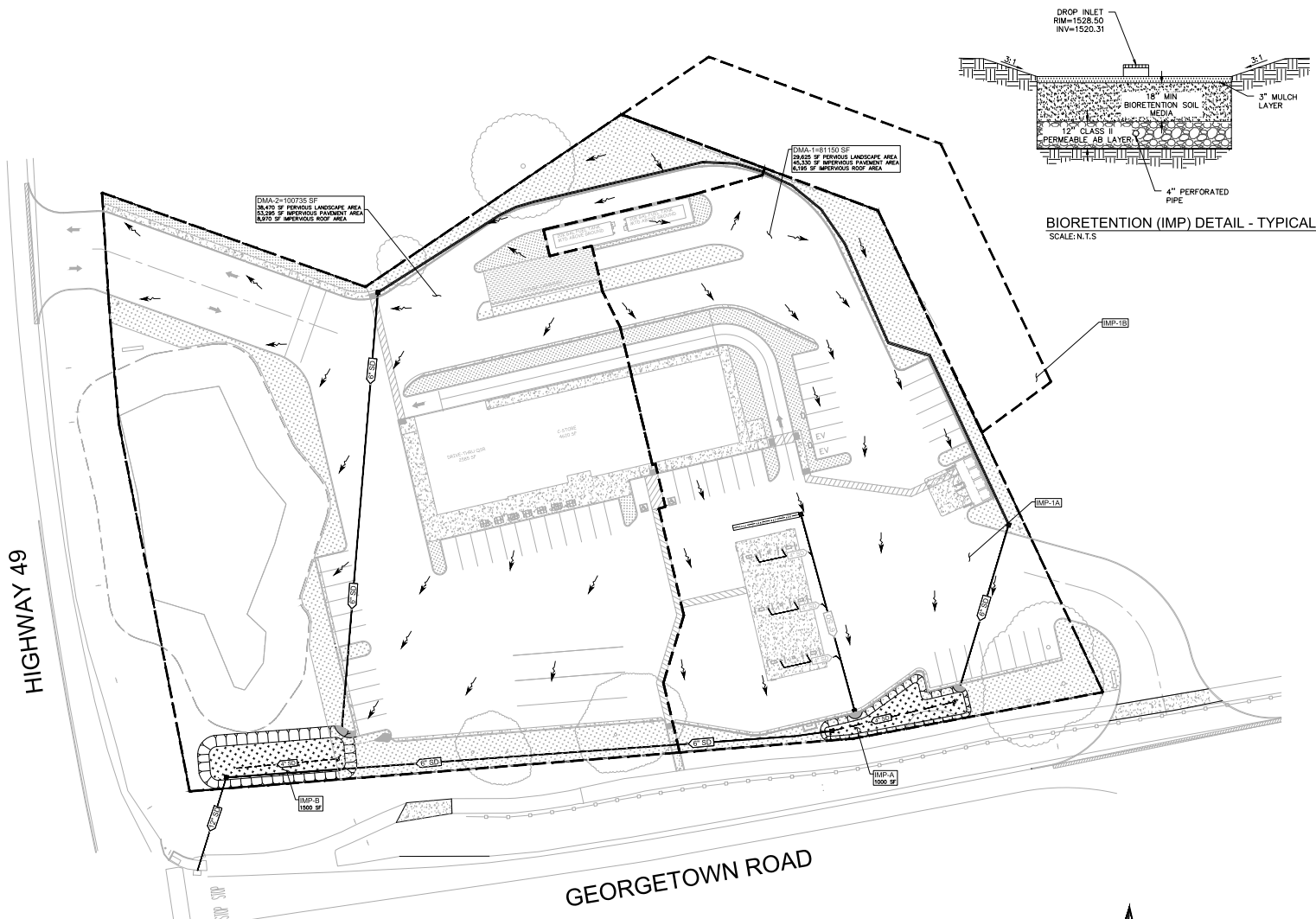
PREPARED FOR:
 NE CNR OF HWY- 49
 & GEORGETOWN RD
 COOL, CA 95614
 APN: 071-080-007

TITLE:
 SITE SECTIONS-2

DATE:	11/13/2023
DESIGNED BY:	N.GORAYA
DRAWN BY:	P. SINGH
CHECKED BY:	M. SAINI
APPROVED BY:	M. SAINI

C-4.2

HIGHWAY 49



LEGEND

- PROPERTY LINE
- CATCH BASIN
- FLOW ARROW
- - - DMA BOUNDARY
- [Pattern] BIORETENTION
- CLEANOUT
- 4" S/D 4" STORM DRAIN
- 6" S/D 6" STORM DRAIN

STORMWATER QUALITY AREAS

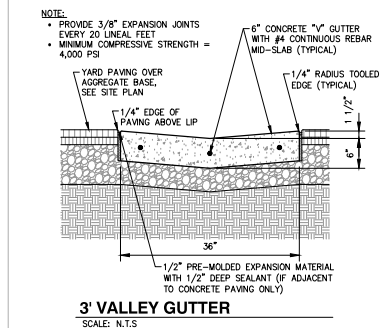
DMA-#	IMPERVIOUS AREA (SF)	TOTAL AREA (SF)	PERCENTAGE IMPERVIOUS	DESIGN TO	REQUIRED BIORETENTION AREA (SF)	DESIGN BIORETENTION AREA (SF)
DMA-1	61,525	81,150	63	IMP-A	770	1030
DMA-2	62,268	100,715	62	IMP-B	1200	1500

1" DMA-DRAINAGE MANAGEMENT AREA.
2" BIOFILTRATION AREA IS ESTIMATED ON 18" MODIFIED SOIL.

BIORETENTION VOLUME CALCULATIONS

PONDING AREA	BIORETENTION IMP-A VOLUME			
	SF	DEPTH (FT)	VOID RATIO	CF
SOIL MEDIA (25%)	1000	0.5	1	500
SOIL MEDIA (25%)	1000	1.5	0.25	375
GRAVEL (40%)	1000	1	0.4	400
TOTAL VOLUME				1275

PONDING AREA	BIORETENTION IMP-B VOLUME			
	SF	DEPTH (FT)	VOID RATIO	CF
SOIL MEDIA (25%)	1500	0.5	1	750
SOIL MEDIA (25%)	1500	1.5	0.25	562.5
GRAVEL (40%)	1500	1	0.4	600
TOTAL VOLUME				1913



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NO.	BY	DATE	REVISION

PREPARED BY:

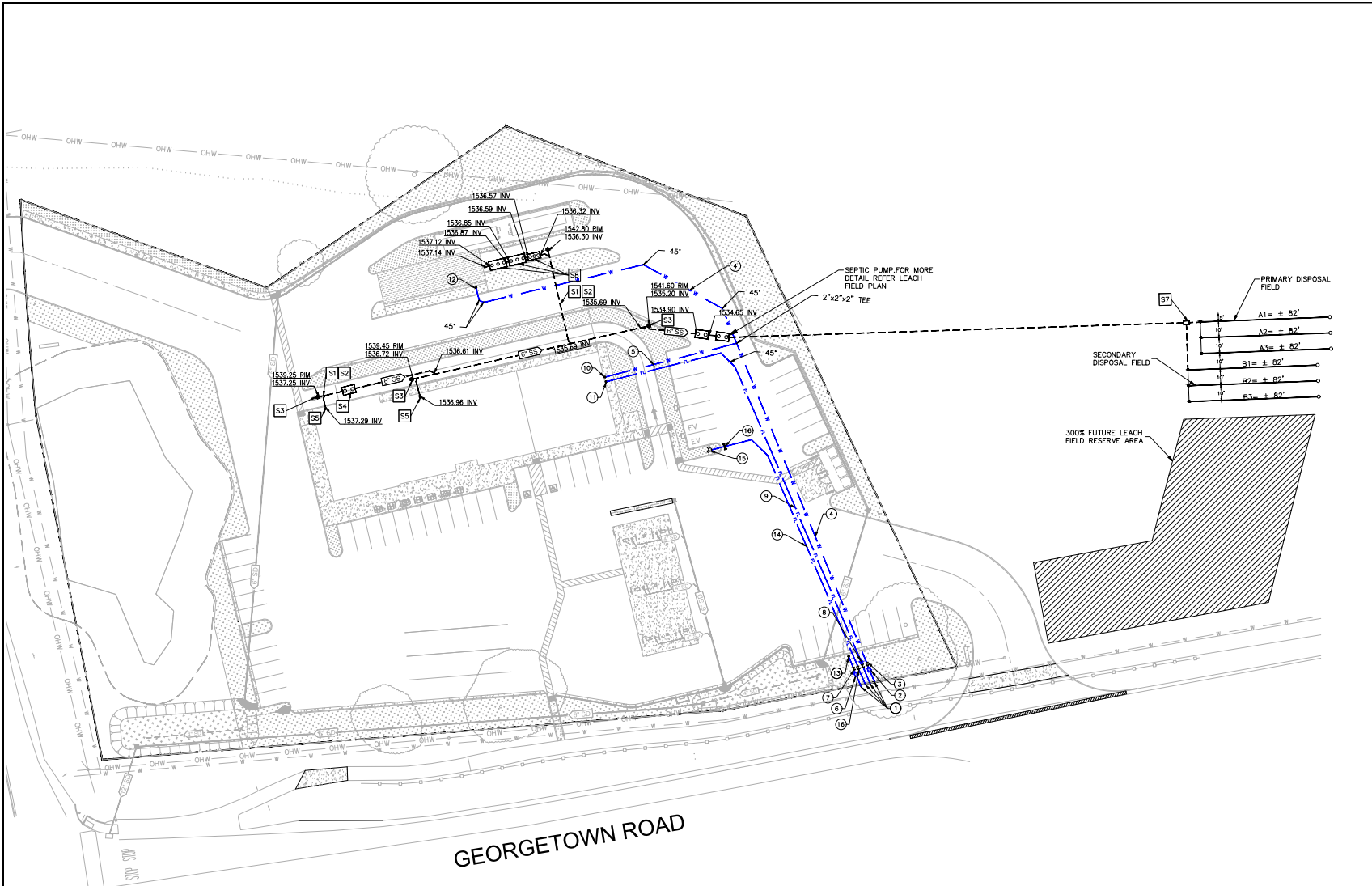
Manjit Saini

PREPARED FOR:
NE CNR OF HWY- 49
& GEORGETOWN RD
COOL, CA 95614
APN: 071-080-007

TITLE:
STORMWATER MANAGEMENT PLAN

DATE: 11/13/2023
DESIGNED BY: N.GORAYA
DRAWN BY: P. SINGH
CHECKED BY: M. SAINI
APPROVED BY: M. SAINI

C-5.0



LEGEND

	BOUNDARY
	LEACH LINES
	STORM DRAIN
	STORM DRAIN
	PERFORMED STORM DRAIN
	SANITARY DRAIN
	CATCH BASIN
	STORM CLEANOUT
	SANITARY CLEANOUT
	FIRE LINE
	FIRE HYDRANT

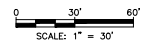
- GENERAL CONSTRUCTION NOTES**
- COORDINATE WITH UTILITIES AGENCIES TO OBTAIN ALL THE PERMITS TO INSTALL UTILITIES AT THE SITE AND MAKE CONNECTIONS.
 - UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS/SPECIFICATIONS OF THE UTILITY AGENCY.
 - VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.

- WATER LINE CONSTRUCTION NOTES**
- INSTALL NEW DOMESTIC (POTABLE), CARWASH, IRRIGATION & FIRE SERVICES TIE-IN WITH EXISTING WATER MAIN LINE. CONTRACTOR TO VERIFY LOCATION AND DEPTH PRIOR TO CONSTRUCTION.
 - INSTALL 2" INCH WATER METER FOR POTABLE WATER SERVICE & CAR WASH SERVICE PER COUNTY STANDARDS.
 - INSTALL REDUCED PRESSURE BACKFLOW PREVENTER FOR POTABLE WATER SERVICE & CAR WASH SERVICE PER COUNTY STANDARDS.
 - INSTALL 2" INCH DOMESTIC BRASS (AWWA C800-01) PIPE FOR CAR WASH SERVICE. TRENCH & BACKFILL PER COUNTY STANDARDS.
 - INSTALL 2" INCH SCHEDULE 40 PIPE FOR POTABLE WATER SERVICE. TRENCH & BACKFILL PER COUNTY STANDARDS.
 - INSTALL 1.5" INCH WATER METER FOR IRRIGATION SERVICE PER COUNTY STANDARDS.
 - INSTALL REDUCED PRESSURE BACKFLOW PREVENTER FOR IRRIGATION SERVICE PER COUNTY STANDARDS.
 - INSTALL REDUCED PRESSURE PRINCIPLE DEVICE WITH FDC PER COUNTY STANDARDS.
 - INSTALL 6" PVC C900 FIRE LINE TO FIRE SPRINKLER SYSTEM. TRENCH & BACKFILL PER COUNTY STANDARDS.
 - DOMESTIC (POTABLE WATER SERVICE) POINT OF CONNECTION (P.O.C.). GENERAL CONTRACTOR TO CAP DOMESTIC WATER LINE MIN. 18" BELOW FINISH GRADE OF PARKING LOT AND MARK STUB OUT LOCATION WITH WOODEN 2X4 PAINTED BLUE.
 - FIRE POINT OF CONNECTION (P.O.C.). GENERAL CONTRACTOR TO CAP FIRE WATER LINE MIN. 18" INCH BELOW FINISH GRADE OF PARKING LOT AND MARK STUB OUT LOCATION WITH WOODEN 2X4 PAINTED BLUE.
 - CAR WASH POINT OF CONNECTION (P.O.C.). GENERAL CONTRACTOR TO CAP CAR WASH WATER LINE MIN. 18" BELOW FINISH GRADE OF PARKING LOT AND MARK STUB OUT LOCATION WITH WOODEN 2X4 PAINTED BLUE.
 - IRRIGATION POINT OF CONNECTION (P.O.C.).
 - INSTALL 6" C-900 FIRE LINE TO FIRE HYDRANT.
 - INSTALL FIRE HYDRANT PER COUNTY STANDARDS.
 - INSTALL DOUBLE DETECTOR VALVE PER COUNTY STANDARDS.

- SANITARY SEWER CONSTRUCTION NOTES**
- INSTALL 6" PVC SDR 26 SANITARY SEWER.
 - PIPE BEDDING FOR SANITARY SEWER AS PER COUNTY STANDARDS.
 - INSTALL SEWER CLEANOUT AS PER COUNTY STANDARDS.
 - INSTALL OIL AND GREASE INTERCEPTOR PER COUNTY STANDARDS.
 - SANITARY SERVICE POINT OF CONNECTION. GENERAL CONTRACTOR MARK STUB OUT LOCATION WITH WOODEN 2X4 PAINTED BLUE.
 - INSTALL SEPTIC TANK PER COUNTY STANDARDS.
 - INSTALL DIVERSION VALVE FOR LEACH FIELD PER COUNTY STANDARDS.
 - INSTALL SAND AND OIL INTERCEPTOR PER COUNTY STANDARDS.

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NO.	BY	DATE	REVISION

PREPARED BY:

Manjit Saini

PREPARED FOR:

NE CNR OF HWY- 49
& GEORGETOWN RD
COOL, CA 95614
APN: 071-080-007

TITLE:

UTILITY PLAN

DATE:	11/13/2023
DESIGNED BY:	N.GORAYA
DRAWN BY:	P. SINGH
CHECKED BY:	M. SAINI
APPROVED BY:	M. SAINI

C-6.0

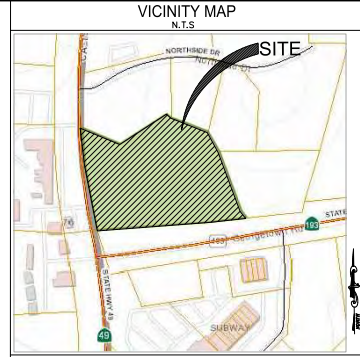
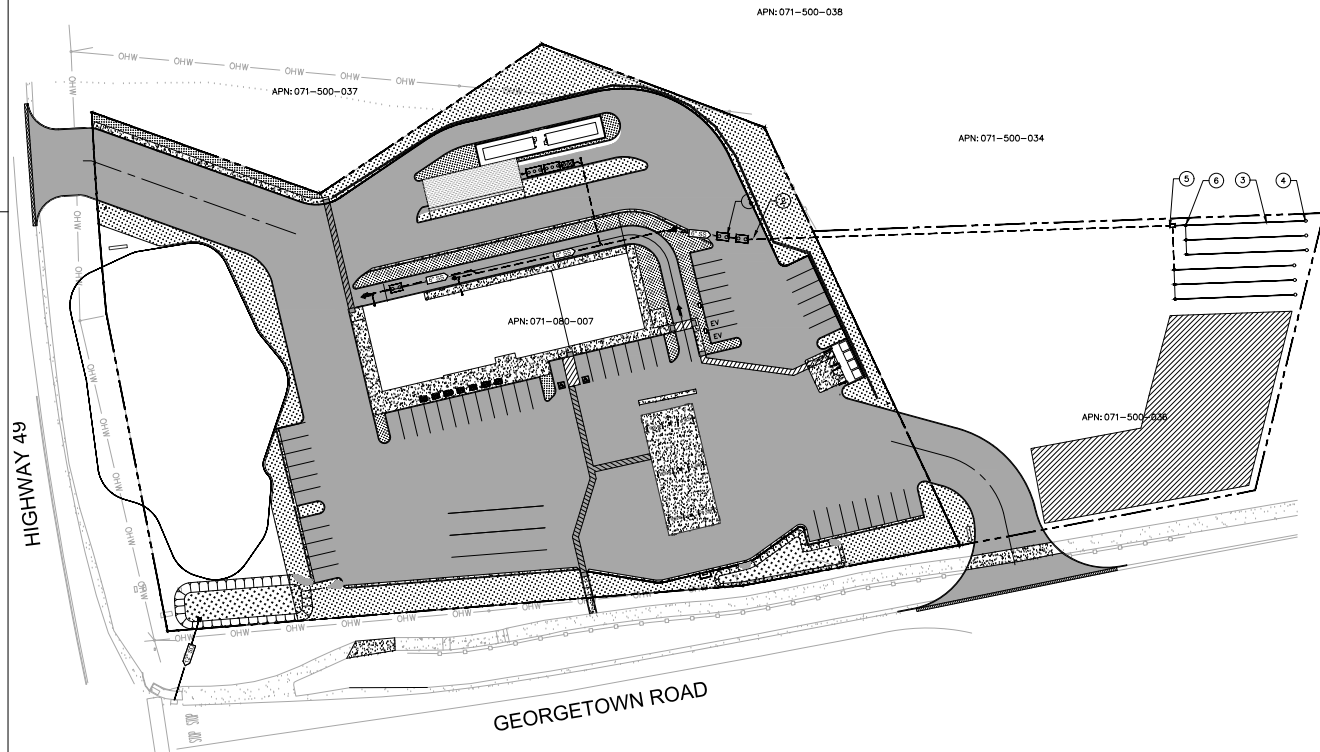
LEGEND

EXISTING	NEW
BOUNDARY	---
CONCRETE	[Pattern]
ASPHALT	[Pattern]
SANITARY SEWER (SS)	[Symbol]
PERFORATED STORM DRAIN (SD)	[Symbol]
STORM CLEANOUT	[Symbol]
LEACH LINES	[Symbol]
SEPTIC TANK	[Symbol]
CLEAN OUT	[Symbol]
SANITARY CLEANOUT	[Symbol]
DIVERSION VALVE	[Symbol]
INSPECTION RISER	[Symbol]
POINT OF CONNECTION	[Symbol]
LANDSCAPE	[Pattern]

KEY PLAN NOTES

- ① 4000 GALLON SEPTIC TANK
- ② 4000 GALLON PUMP TANK WITH EFFLUENT PUMP
- ③ 4" PERF. LEACH LINES (SEE DETAIL 2)
- ④ INSPECTION RISER (TYP.) (SEE DETAIL 2)
- ⑤ DIVERSION VALVE
- ⑥ 4" LEACH LINE CLEAN OUT

LEACH FIELD PLAN FOR
NE CNR OF HWY-49 & GEORGETOWN RD
 COOL, CA 95614
 APN: 071-080-007



SHEET INDEX (CIVIL)

LF-1.0	COVER SHEET
LF-2.0	LEACH FIELD PLAN
LF-3.0	SEPTIC TANK AND DISPOSAL TRENCH DETAIL

PROPERTY DETAILS

APN	071-080-007
AREA	3.83 AC
ZONING	CG
ADDRESS	NE CNR OF HWY- 49 & GEORGETOWN RD, COOL, CA 95614

PROJECT SCOPE OF WORK

SEPTIC TANK	4000 GALLONS
PUMP TANK	4000 GALLONS
LEACH FIELD SYSTEM	

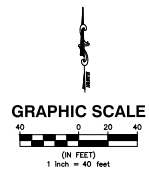
PROJECT DIRECTORY

ENGINEER OF RECORD: ARCHITECTURE	
MANJIT SAINI, PE 557 ROUGH AND READY RD SAN JOSE, CA 95133 Phone: -(408) 313-5400 Email: msaini@engco.com	MHA DESIGN SERVICES 11584 FRANCIS DRIVE GRASS VALLEY, CA 95949 M.HOGROBATHAM Phone: -(530) 263-5899 Email: meh.architecture@gmail.com
OWNER CONTACT: Phone: - - - - - Email: - - - - -	

TOPOGRAPHIC AND BOUNDARY SURVEY
 TOPOGRAPHIC SURVEY COMPLETED BY OTHERS SEE SHEET C-2.0.

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PREPARED BY:

Manjit Saini

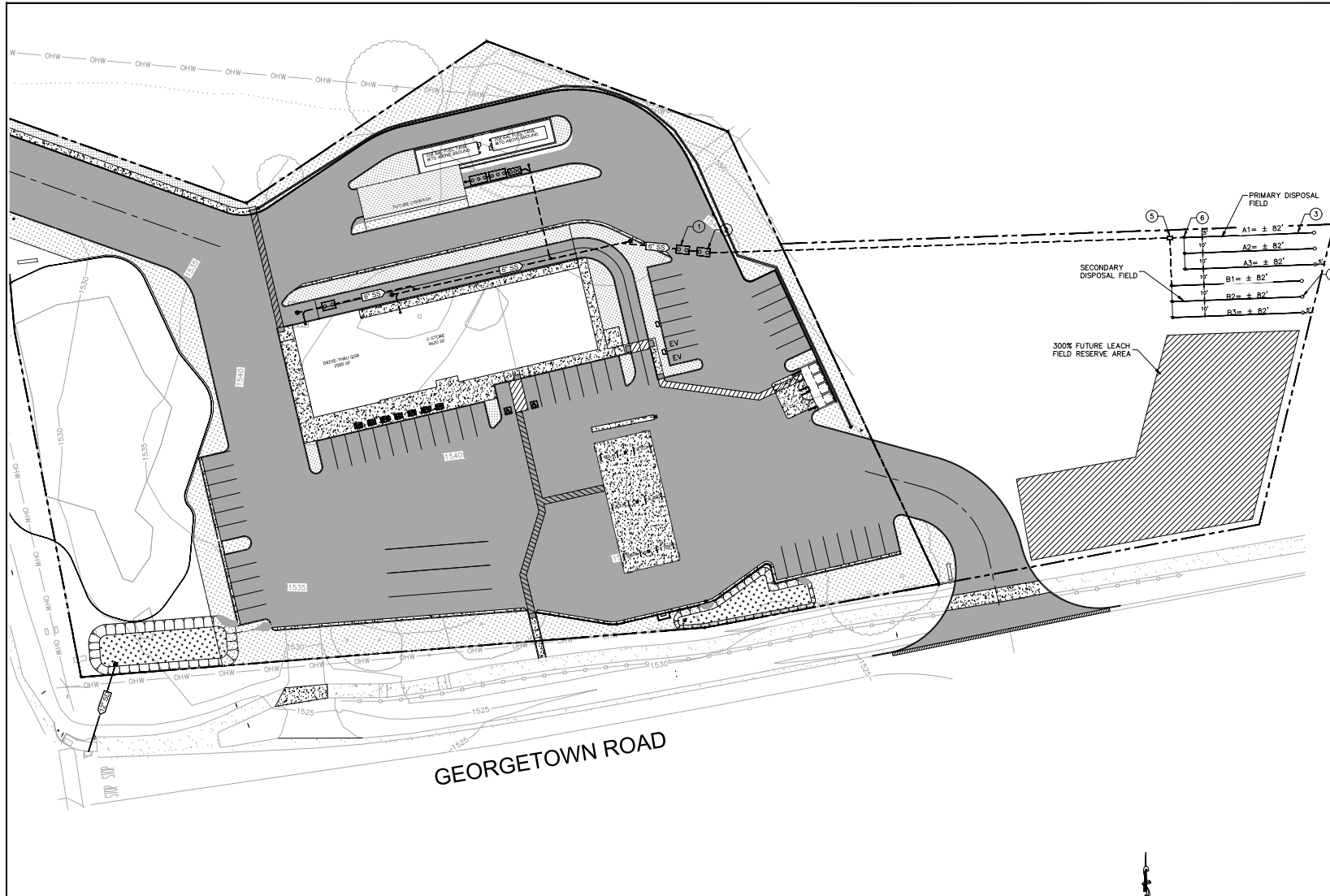
PREPARED FOR:

NE CNR OF HWY- 49 & GEORGETOWN RD
COOL, CA 95614
APN: 071-080-007

TITLE:

COVER SHEET

DATE:	11/13/2023	SHEET NO.	
DESIGNED BY:	N.GORAYA	LF-1	
DRAWN BY:	P. SINGH	1	OF 3
CHECKED BY:	M. SAINI	REV.	0
APPROVED BY:	M. SAINI		



LEGEND
SEE COVER SHEET.

KEY PLAN NOTES

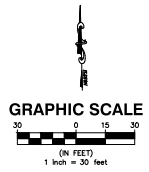
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- ④ INSPECTION RISER (TYP.)
- ⑤ DIVERSION VALVE
- ⑥ 4" LEACH LINE CLEAN OUT

GENERAL CONSTRUCTION NOTES

1. IMPLEMENT EROSION AND SEDIMENT CONTROL PLAN PRIOR TO START ANY CONSTRUCTION FOR THE LEACH FIELD SYSTEM IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL DRAWINGS INCLUDED IN CIVIL DRAWINGS.
2. CLEAR THE SITE FROM ALL VEGETATION PRIOR TO TRENCHING.
3. COORDINATE WITH THE COUNTY FOR LEACH FIELD LAYOUTS PRIOR TO START CONSTRUCTION.

Preliminary Design of Standard OWTS	
Number of Fixtures	= 33
Design Flow for Commercial	= 3500 gpd
Depth of Groundwater at Site	= ft
Percolation Rate in Leach Field Area	= 10 MPI
Septic Tank Volume	= 4000 Gallon
Wastewater Application Rate	= 1.6 gpd/ft ²
Absorption Area requirement	= 2436 ft ²
Trench Depth	= 3 ft
Trench Width	= 2.5 ft
Effective infiltrative Area	= 10 ft ² /ft
Trench Length	= 244 ft

GEORGETOWN ROAD



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PREPARED BY:

Manjit Saini

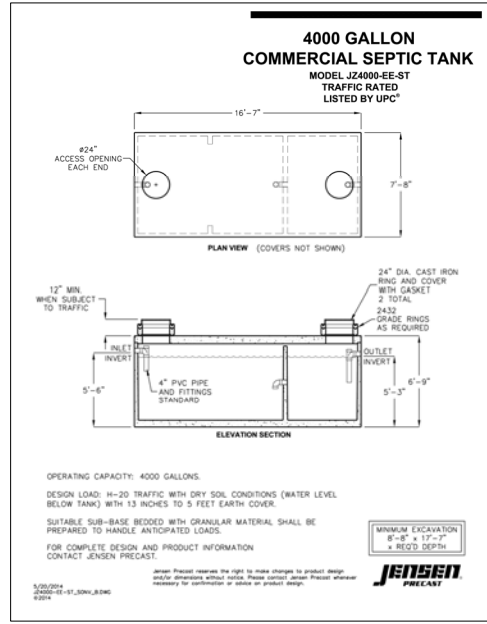
PREPARED FOR:

**NE CNR OF HWY- 49
& GEORGETOWN RD
COOL, CA 95614
APN: 071-080-007**

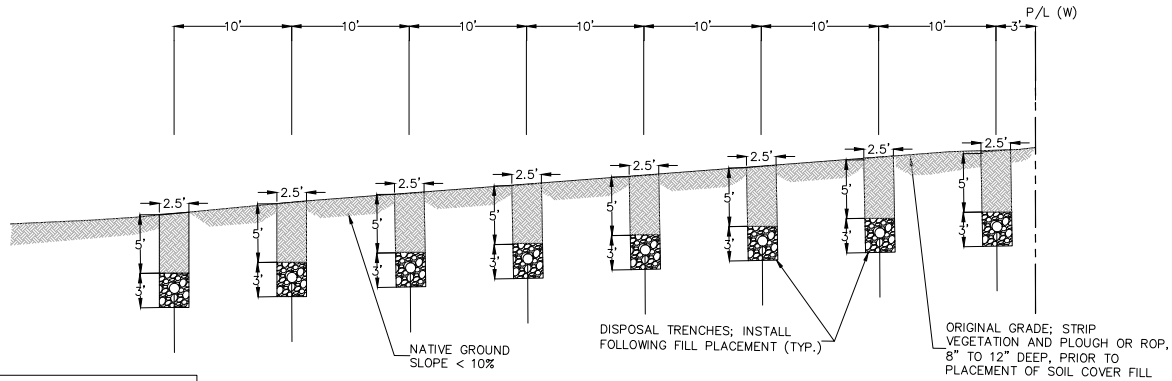
TITLE:

LEACH FIELD PLAN

DATE:	11/13/2023	SHEET NO.	LF-2
DESIGNED BY:	N.GORAYA	2 OF 3	
DRAWN BY:	P. SINGH	REV.	0
CHECKED BY:	M. SAINI		
APPROVED BY:	M. SAINI		



SEPTIC TANK DETAIL
NTS



LEACH FIELD DETAIL
SCALE = 1" = 5'

<p>ENGINEERS NOTE TO CONTRACTOR:</p> <p>THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES, PIPES, AND/OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL ACCEPT THE TRUE VERTICAL AND HORIZONTAL LOCATION OF THOSE UNDERGROUND UTILITIES TO BE USED AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY PUBLIC OR PRIVATE UTILITIES, SHOWN OR NOT SHOWN HEREON. IF THE CONTRACTOR ENCOUNTERS ANY DISCREPANCIES, CONFLICTS OR AREAS WHICH HE FEELS UNWORKABLE, HE SHALL NOTIFY THE GRADING ENGINEER IMMEDIATELY PRIOR TO CONTINUING OR DEVIATING FROM THIS PLAN.</p>	<p>UNAUTHORIZED CHANGES & USES:</p> <p>THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.</p>
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<p>UNDERGROUND SERVICE ALERT</p> <p>Call: TOLL FREE 1-800-227-2600</p> <p>KNOW WHAT'S BELOW CALL BEFORE YOU DIG</p> <p>TWO WORKING DAYS BEFORE YOU DIG</p>									
NO.	BY	DATE	REVISION						

PREPARED BY:

Manjit Saini

PREPARED FOR:

NE CNR OF HWY- 49
& GEORGETOWN RD
COOL, CA 95614
APN: 071-080-007

TITLE:

**SEPTIC TANK AND DISPOSAL
TRENCH DETAIL**

DATE:	11/13/2023	SHEET NO.	LF-3
DESIGNED BY:	N. GORAYA		
DRAWN BY:	P. SINGH		
CHECKED BY:	M. SAINI	REV.	0
APPROVED BY:	M. SAINI		