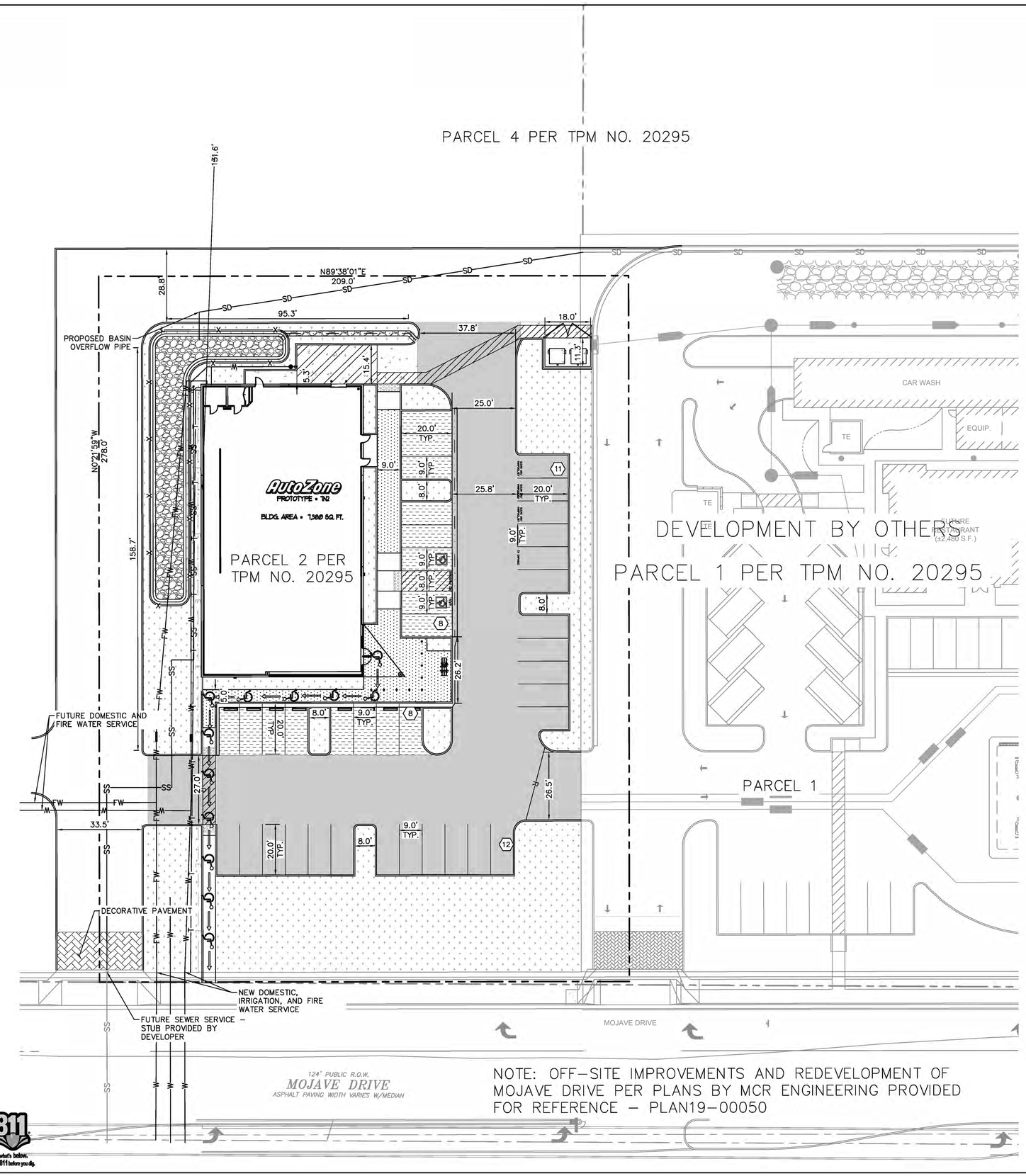
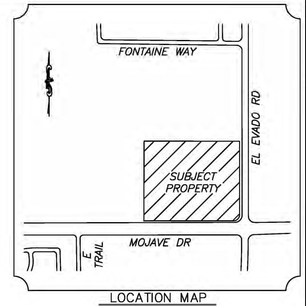


NOTE: OFF-SITE IMPROVEMENTS AND REDEVELOPMENT OF MOJAVE DRIVE PER PLANS BY MCR ENGINEERING PROVIDED FOR REFERENCE - PLAN19-00050

LEGEND

- PROPERTY LINE
- STREET CENTER LINE
- ACCESSIBLE ROUTE (LOCATION PURPOSES ONLY, DO NOT PAINT)
- ACCESSIBLE PARKING STALLS
- NUMBER OF PARKING SPACES
- HEAVY DUTY CONCRETE PAVEMENT
- LIGHT DUTY CONCRETE PAVEMENT
- CONCRETE SIDEWALK
- ASPHALT PAVEMENT
- PROPOSED LANDSCAPING
- SS — PROPOSED 4" SANITARY SEWER PIPE
- W — PROPOSED WATER PIPE
- T — PROPOSED TELEPHONE
- E — PROPOSED ELECTRICAL
- FW — PROPOSED FIRE WATER LINE.
- SD — PROPOSED STORM DRAIN



LOCATION MAP
NOT TO SCALE

PROJECT TEAM

DEVELOPER/OWNER
AUTOZONE, INC.
C/O MITCH BRAMLITT
123 S. FRONT STREET, 3RD FLOOR
MEMPHIS, TN 38103
(901) 495-8714

CIVIL ENGINEER
KIMLEY-HORN & ASSOCIATES
C/O JACOB GLAZE, P.E.
765 THE CITY DRIVE SOUTH, SUITE 200
ORANGE, CA 92868
(714) 705-1374

ARCHITECT
AUTOZONE, INC.
C/O MITCH BRAMLITT
123 S. FRONT STREET, 3RD FLOOR
MEMPHIS, TN 38103
(901) 495-8714

DATA SUMMARY

APN:	039403136
ZONING DISTRICT:	GENERAL COMMERCIAL (C-2)
LAND USE:	COMMERCIAL
OCCUPANCY:	M
BUILDING CONSTRUCTION:	VB
FLOOD ZONE:	ZONE X - AREA DETERMINED TO BE OUTSIDE THE .2% ANNUAL CHANCE FLOODPLAIN. PER FEMA MAP NO. 0607C5815H

LEASE COVERAGE

TOTAL SITE AREA:	42,141 S.F.	(0.97 AC)	100%
BUILDING AREA:	7,380 S.F.	(0.17 AC)	17.5%
IMPERVIOUS AREA:	25,946 S.F.	(0.59 AC)	61.4%
LANDSCAPE AREA:	16,195 S.F.	(0.37 AC)	38.6%
FLOOR AREA RATIO:			17.5%

PARKING/LANDSCAPE SETBACK

FRONT:	10.0'
REAR:	0'
SIDE (N):	0'
SIDE (S):	0'

PARKING SUMMARY

PARKING REQUIREMENTS: (7,380 S.F. * 1 STALL/200 S.F.) = 37 STALLS REQUIRED PER CITY CODE
ADA PARKING FOR 26-50 PARKING STALLS = 2 ADA PARKING STALLS REQUIRED PER CALIFORNIA BUILDING CODE

PARKING TABLE:	REQUIRED	PROVIDED
STANDARD	31	33
COMPACT (C)	N/A	0
CLEAN AIR / VANPOOL / EV	2	2
EV CAPABLE	2	2
ACCESSIBLE	2	2
TOTAL:	37	39

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

SCALE: 1" = 20'
WHEN PRINTED AT FULL SIZE 24"x36"

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No.	REVISIONS	DATE	BY

Kimley»Horn

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PHONE: 714-939-1030 FAX: 714-938-9488
WWW.KIMLEY-HORN.COM

LICENSED PROFESSIONAL

DATE 4/5/2021
SCALE AS SHOWN
DESIGNED BY RWA
DRAWN BY RWA
CHECKED BY JG

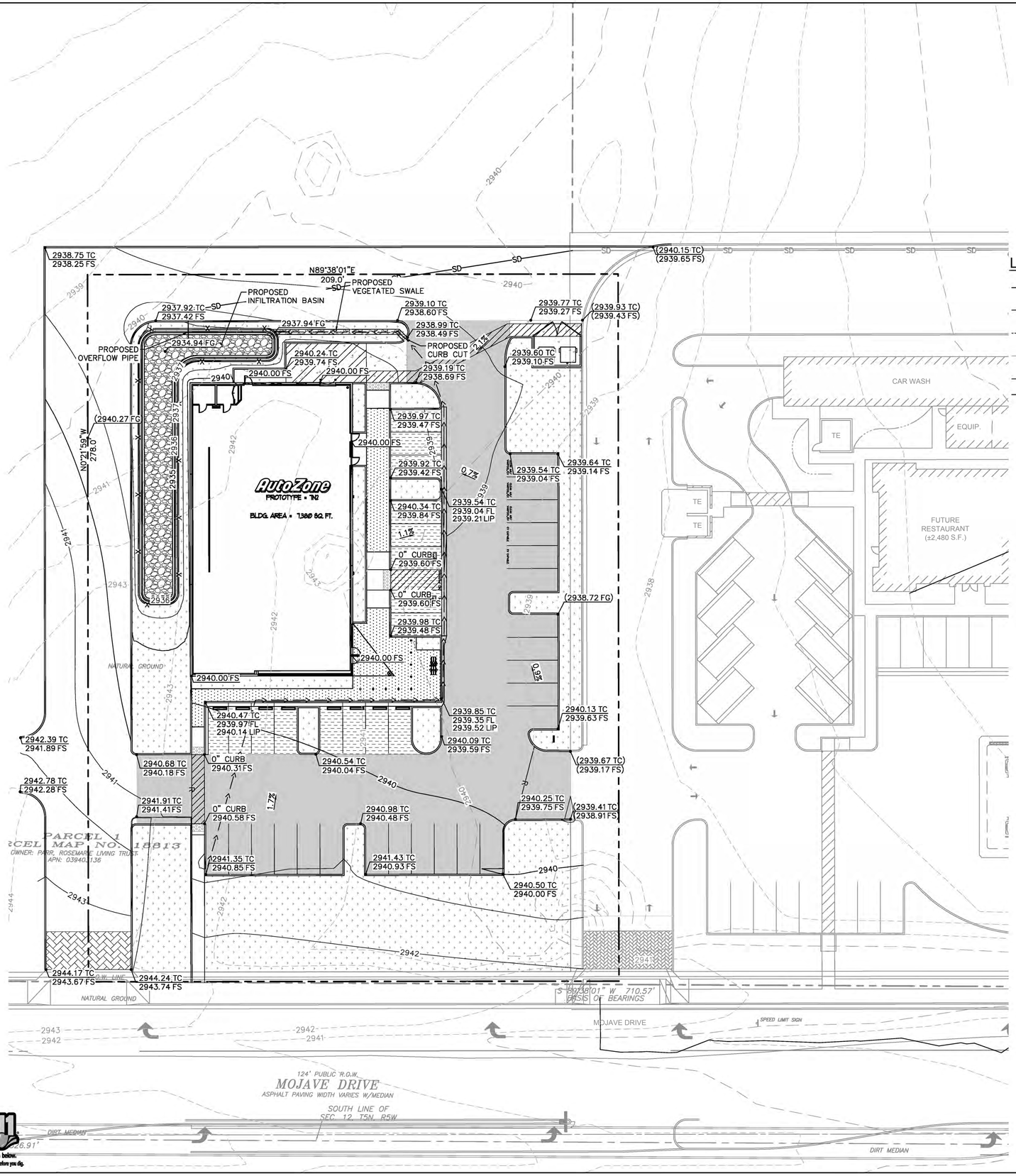
CONCEPTUAL SITE PLAN

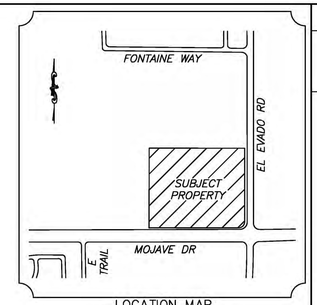
AUTOZONE 4499

PREPARED FOR
CITY OF VICTORVILLE, CA

SHEET NUMBER
1

Plotted By:Alvarez, Ryan Sheet Set:Kha Layout:Sheet April 05, 2021 08:26:59pm K:\ORA_LDEV\AutoZone\xxxxxxxx - VICTORVILLE\CAD\Exhibits\CONCEPTUAL SITE PLAN.dwg
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LOCATION MAP
NOT TO SCALE

LEGEND

RIGHT OF WAY	PROPOSED LANDSCAPING
STREET CENTERLINE	HEAVY DUTY CONCRETE PAVING
EASEMENT LINE	CONCRETE SIDEWALK
925 EXISTING CONTOUR	ASPHALT PAVEMENT
925 PROPOSED CONTOUR	(925.00 TC) / (925.00 FS) EXISTING GRADE
R RIDE LINE	925.00 TC / 925.00 FS PROPOSED GRADE
ACCESSIBLE PARKING SPACE	2.00% PROPOSED SLOPE

DMA	BMP ID #	BMP PROVIDED	REQUIRED TREATMENT VOLUME	PROPOSED TREATMENT VOLUME
1	1	INFILTRATION BASIN (2080 SF)	3580 FT³	4380 CFS

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

SCALE: 1" = 20'
WHEN PRINTED AT FULL
SIZE 24"x36"

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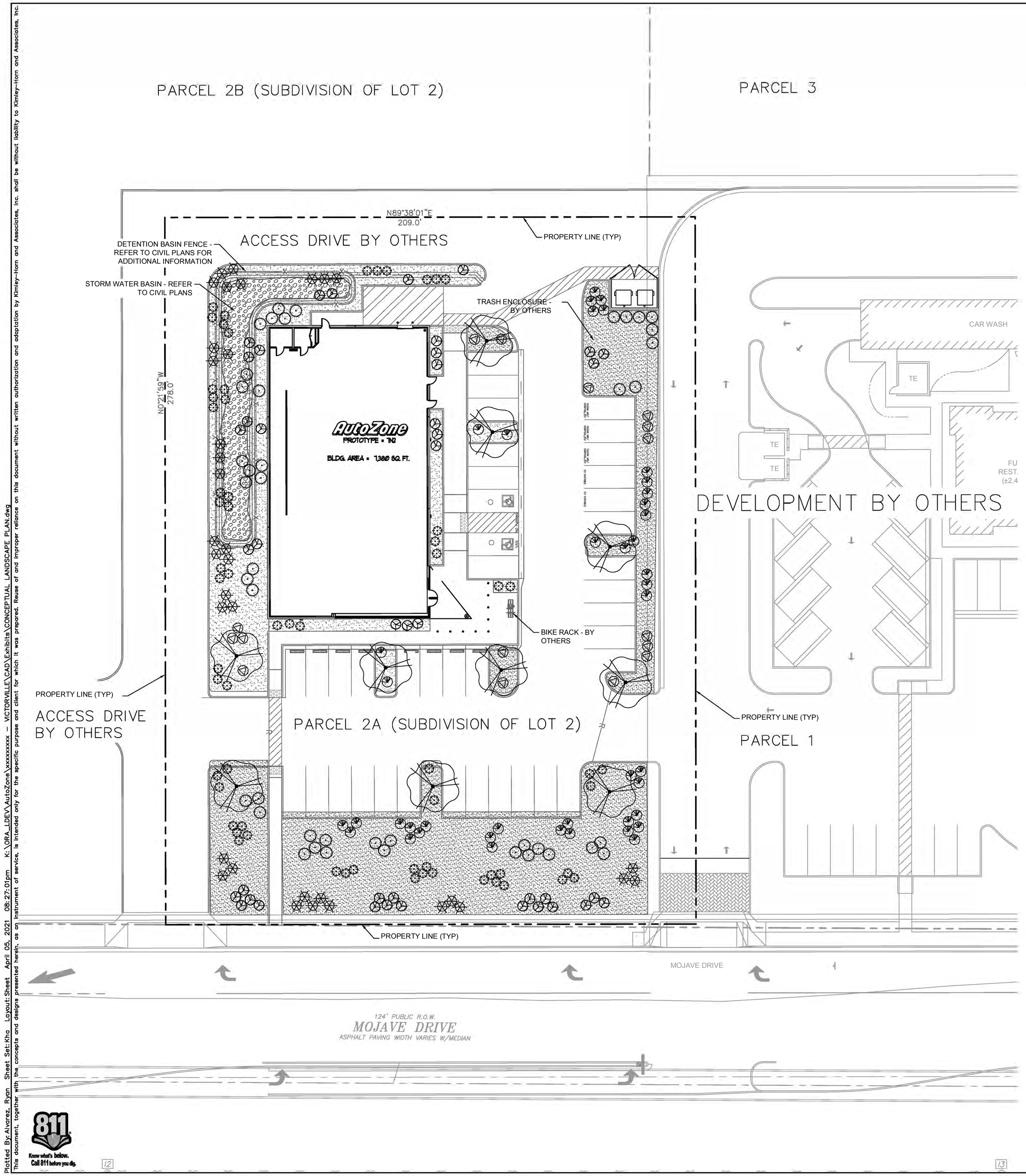
DATE 4/5/2021
SCALE AS SHOWN
DESIGNED BY RWA
DRAWN BY RWA
CHECKED BY JG

CONCEPTUAL GRADING PLAN

AUTOZONE 4499
PREPARED FOR
CITY OF VICTORVILLE, CA

SHEET NUMBER
2

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PLANT SCHEDULE

TREES	QTY	BOTANICAL / COMMON NAME	WUCOLS
	10	PISTACIA CHINENSIS / CHINESE PISTACHE	MODERATE

SHRUBS	QTY	BOTANICAL / COMMON NAME	WUCOLS
	35	DASYLIRION WHEELERI / GREY DESERT SPOON	LOW
	39	HESPERALOE PARVIFLORA / RED YUCCA	LOW
	60	LANTANA X 'NEW GOLD' / NEW GOLD LANTANA	MODERATE
	43	LEUCOPHYLLUM FRUTESCENS / TEXAS SAGE	LOW
	42	MUHLENBERGIA RIGENS / DEER GRASS	LOW
	16	RUELLIA PENNINSULARIS / WILD PETUNIA	LOW

GROUND COVERS	QTY	BOTANICAL / COMMON NAME
	1,348 SF	CRUSHED STONE / 3"-5" DIAMETER CALIFORNIA GOLD CRUSHED 3"-5" DIAMETER CRUSHED STONE FROM SOUTHWEST BOULDER & STONE OR APPROVED EQUAL.
	14,759 SF	DECOMPOSED GRANITE / 1/4" MINUS 2" DEPTH COLOR: CALIFORNIA GOLD

LANDSCAPE NOTE:

THE SELECTION OF PLANT MATERIAL IS BASED ON CULTURAL, AESTHETIC, AND MAINTENANCE CONSIDERATIONS. ALL PLANTING AREAS SHALL BE PREPARED WITH APPROPRIATE SOIL AMENDMENTS, FERTILIZERS AND APPROPRIATE SUPPLEMENTS BASED UPON A SOILS REPORT FROM AN AGRICULTURAL SUITABILITY SOIL SAMPLE TAKEN FROM THE SITE. DECOMPOSED GRANITE SHALL FILL IN BETWEEN SHRUBS TO SHIELD THE SOIL FROM THE SUN, EVAPOTRANSPIRATION, AND RUN-OFF. ALL SHRUB BEDS SHALL BE MULCHED TO A 3" DEPTH TO HELP CONSERVE WATER, LOWER SOIL TEMPERATURE, AND REDUCE WEED GROWTH. THE SHRUBS SHALL BE ALLOWED TO GROW IN THEIR NATURAL FORMS. ALL LANDSCAPE IMPROVEMENTS SHALL FOLLOW THE GUIDELINES SET FORTH BY THE CITY OF VICTORVILLE MUNICIPAL CODE.

IRRIGATION NOTE:

AN AUTOMATIC IRRIGATION SYSTEM SHALL BE INSTALLED TO PROVIDE 100% COVERAGE FOR ALL PLANTING AREAS SHOWN ON THE PLAN. THE WATER SUPPLY FOR THIS SITE IS A POTABLE WATER CONNECTION AND A DEDICATED IRRIGATION METER WILL BE PROVIDED. LOW VOLUME EQUIPMENT SHALL PROVIDE SUFFICIENT WATER FOR PLANT GROWTH WITH NO WATER LOSS DUE TO WATER CONTROLLERS, AND OTHER NECESSARY IRRIGATION EQUIPMENT. ALL POINT SOURCE SYSTEM SHALL BE ADEQUATELY FILTERED AND REGULATED PER THE MANUFACTURER'S RECOMMENDED DESIGN PARAMETERS. ALL IRRIGATION IMPROVEMENTS SHALL FOLLOW THE GUIDELINES SET FORTH BY THE CITY OF VICTORVILLE MUNICIPAL CODE.

I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AB-1881 AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN.

MICHAEL P. MADSEN, LLA 5798

PARKING LOT TREE REQUIREMENT		
NUMBER OF PARKING STALLS	NUMBER OF TREES REQUIRED (1 TREE FOR EVERY 8 PARKING SPACES)	NUMBER OF TREES PROVIDED
39	5	10

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

SCALE: 1" = 20'
WHEN PRINTED AT FULL SIZE 24"x36"

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DATE	4/5/2021
SCALE	AS SHOWN
DESIGNED BY	EB
DRAWN BY	EB
CHECKED BY	LD

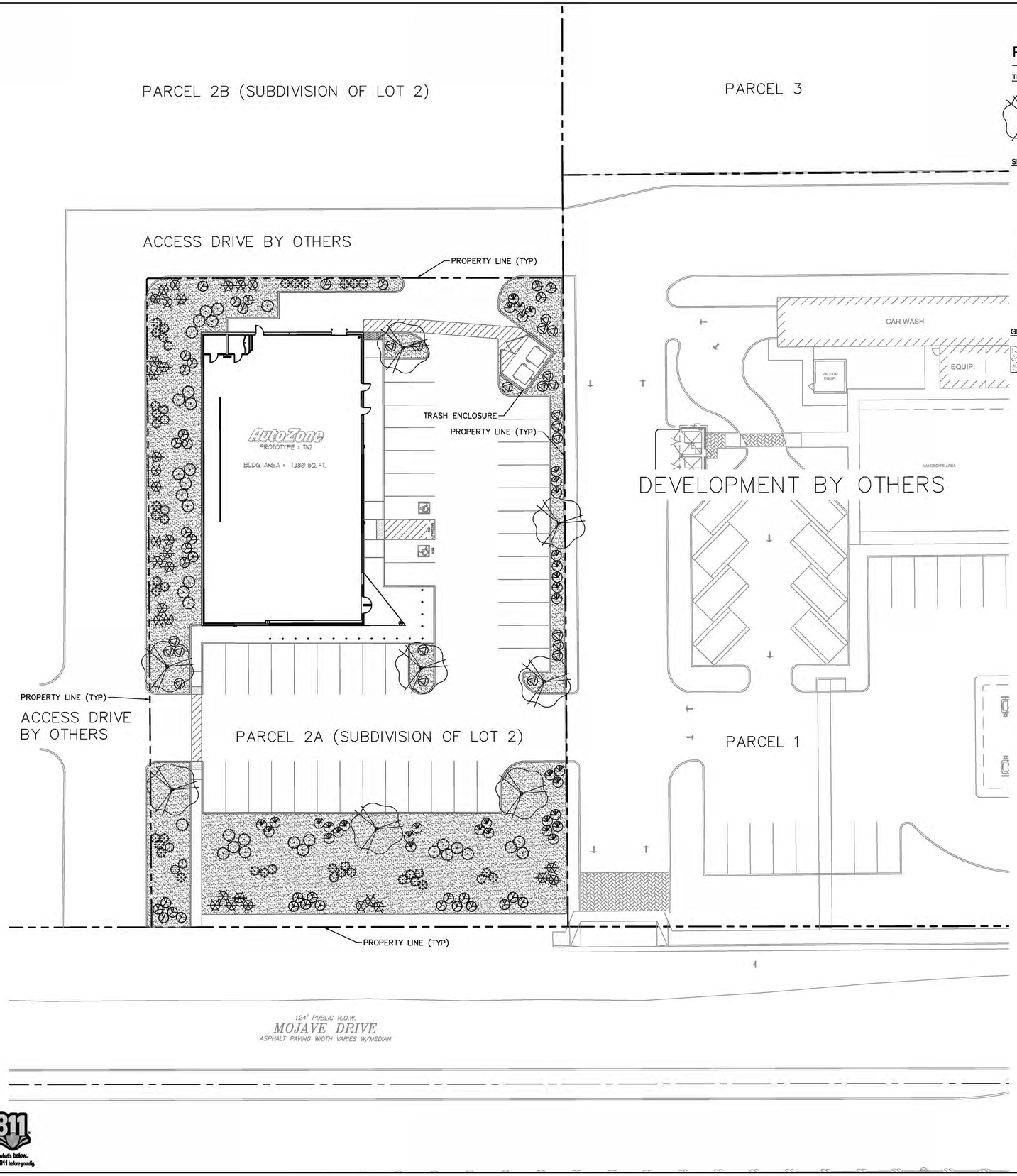
CONCEPTUAL LANDSCAPE PLAN

AUTOZONE 4499
PREPARED FOR
CITY OF VICTORVILLE, CA

SHEET NUMBER
2

Plotted By:Alvarez, Ryan Sheet Set:Kha Layout:Sheet April 05, 2021 08:27:01pm K:\ORA_LDEV\AutoZone\xxxxxxxxx – VICTORVILLE\CAD\Exhibits\CONCEPTUAL LANDSCAPE PLAN.dwg
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PLANT SCHEDULE

TREES	QTY	BOTANICAL / COMMON NAME	CONT	HEIGHT/SPREAD	CAL.	WUCOLS
	8	PISTACIA CHINENSIS / CHINESE PISTACHE	24" BOX	9`-11` HT. - 3`-4` SPR.	1" CAL.	MODERATE

SHRUBS	QTY	BOTANICAL / COMMON NAME	CONT.	SPACING	WUCOLS
	33	DASYLIRION WHEELERI / GREY DESERT SPOON	5 GAL.	5` O.C.	LOW
	38	HESPERALOE PARVIFLORA / RED YUCCA	5 GAL.	4` O.C.	LOW
	47	LANTANA X `NEW GOLD` / NEW GOLD LANTANA	5 GAL.	4` O.C.	MODERATE
	34	LEUCOPHYLLUM FRUTESCENS / TEXAS SAGE	5 GAL.	5` O.C.	LOW
	35	MUHLENBERGIA RIGENS / DEER GRASS	5 GAL.	4` O.C.	LOW
	22	RUELLIA PENNINSULARIS / WILD PETUNIA	5 GAL.	4` O.C.	LOW

GROUND COVERS	QTY	BOTANICAL / COMMON NAME	CONT.
	13,197 SF	DECOMPOSED GRANITE / 1/4" MINUS 2" DEPTH COLOR: CALIFORNIA GOLD	NON-STABILIZED D.G.

LANDSCAPE NOTE□

THE SELECTION OF PLANT MATERIAL IS □ASED ON C□LT□RAL□ AESTHETIC□ AND MAINTENANCE CONSIDERATIONS. ALL PLANTIN□ AREAS SHALL □E PREPARED □ ITH APPROPRIATE SOIL AMENDMENTS□ FERTILIZERS AND APPROPRIATE S□PPLEMENTS □ASED □PON A SOILS REPORT FROM AN A□RIC□LT□RAL S□ITA□ILIT□ SOIL SAMPLE TA□EN FROM THE SITE. DECOMPOSED □RANITE SHALL FILL IN □ET□□EEN SHR□□S TO SHIELD THE SOIL FROM THE S□N□EVAPOTRANSPIRATION□AND R□N-OFF. ALL SHR□□ □EDS SHALL □E M□LCHED TO A 3" DEPTH TO HELP CONSERVE □ATER□LO□ ER SOIL TEMPERAT□RE□AND RED□CE □EED □RO□TH. THE SHR□□S SHALL □E ALLO□ED TO □RO□ IN THEIR NAT□RAL FORMS. ALL LANDSCAPE IMPROVEMENTS SHALL FOLLO□ THE □□IDELINES SET FORTH □□ THE CIT□ OF VICTORVILLE M□NICIPAL CODE.

IRRI□ATION NOTE□

AN A□TOMATIC IRRI□ATION S□STEM SHALL □E INSTALLED TO PROVIDE 100□ COVERA□E FOR ALL PLANTIN□ AREAS SHO□ N ON THE PLAN. THE □ ATER S□PPL□ FOR THIS SITE IS A POTA□LE □ATER CONNECTION AND A DEDICATED IRRI□ATION METER □ILL □E PROVIDED. LO□ VOL□ME E□□IPMENT SHALL PROVIDE S□FFICIENT □ ATER FOR PLANT □RO□TH □ITH NO □ATER LOSS D□E TO □ATER CONTROLLERS□ AND OTHER NECESSAR□ IRRI□ATION E□□IPMENT. ALL POINT SO□RCE S□STEM SHALL □E ADE□ATEL□ FILTERED AND RE□□LATED PER THE MAN□FACT□RER'S RECOMMENDED DESI□N PARAMETERS. ALL IRRI□ATION IMPROVEMENTS SHALL FOLLO□ THE □□IDELINES SET FORTH □□ THE CIT□ OF VICTORVILLE M□NICIPAL CODE.

I HAVE COMPLIED □ ITH THE CRITERIA OF THE ORDINANCE A□-1□□1 AND APPLIED THEM FOR THE EFFICIENT □SE OF □ ATER IN THE LANDSCAPE DESI□N PLAN.

□□□□□□□□□□

MICHAEL P. MADSEN□LLA □79□

PAR□IN□ LOT TREE RE□□IREMENT		
N□M□ER OF PAR□IN□ STALLS	N□M□ER OF TREES RE□□IRED	N□M□ER OF TREES PROVIDED
43	6	□

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

SCALE: 1" = 20'
WHEN PRINTED AT FULL SIZE 24"x36"

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PHONE: 714-939-1030 FAX: 714-938-9488
WWW.KIMLEY-HORN.COM

LICENSED PROFESSIONAL

LICENSED LANDSCAPE ARCHITECT
MICHAEL P. MADSEN
No. 5079
Renewal Date
STATE OF CALIFORNIA

FOR CONSTRUCTION

DATE 11/25/2020
SCALE AS SHOWN
DESIGNED BY EB
DRAWN BY EB
CHECKED BY LD

CONCEPT□AL LANDSCAPE PLAN

A□TOZONE 4499
PREPARED FOR
CIT□ OF VICTORVILLE□CA

SHEET NUMBER
2

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NORTH

GRAPHIC SCALE IN FEET
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Kimley»Horn

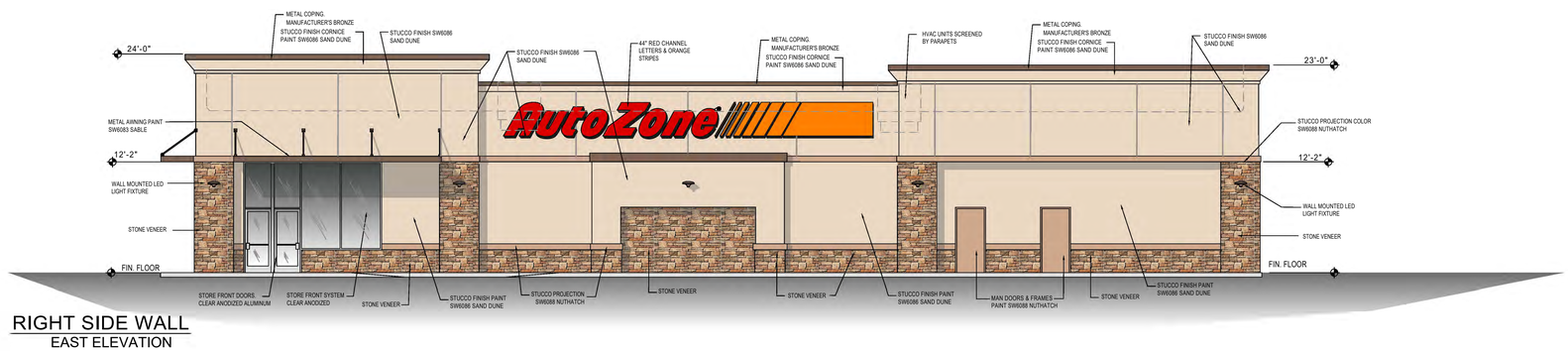
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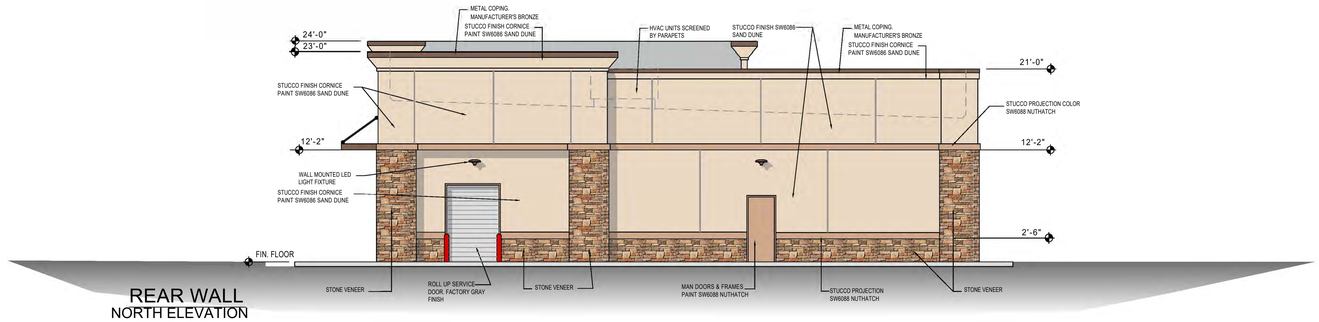
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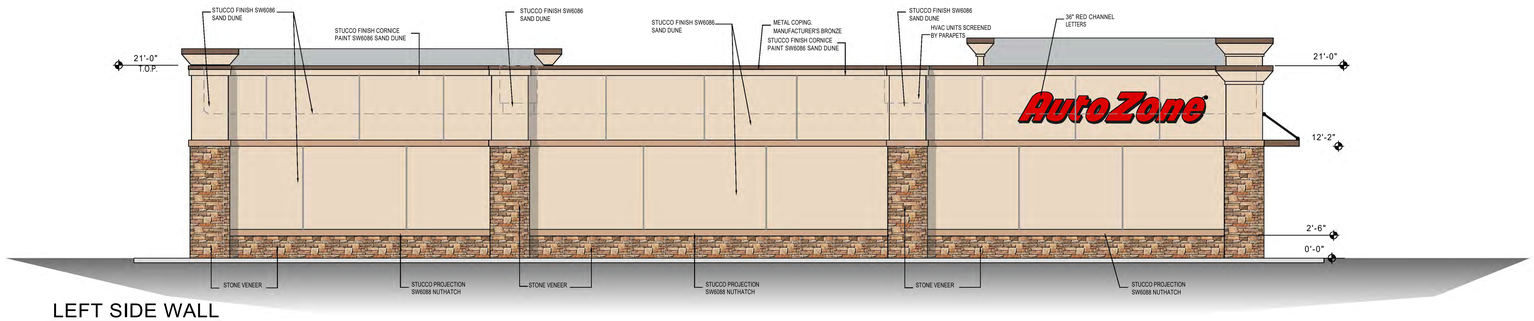
FRONT WALL
SOUTH ELEVATION



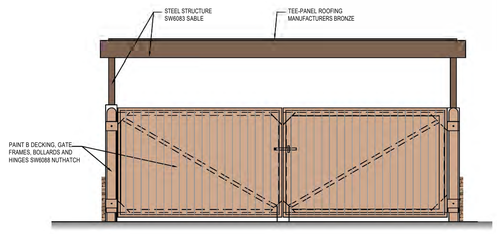
RIGHT SIDE WALL
EAST ELEVATION



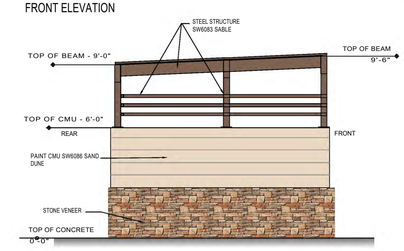
REAR WALL
NORTH ELEVATION



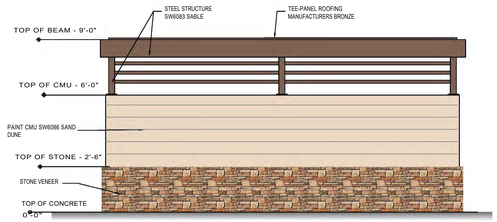
LEFT SIDE WALL
WEST ELEVATION



FRONT ELEVATION



SIDE ELEVATION



REAR ELEVATION

REVISIONS					
1		2		3	
4		5		6	

AutoZone Store No. 4499
ELVADO & MOHAVE
VICTORVILLE CA 92394

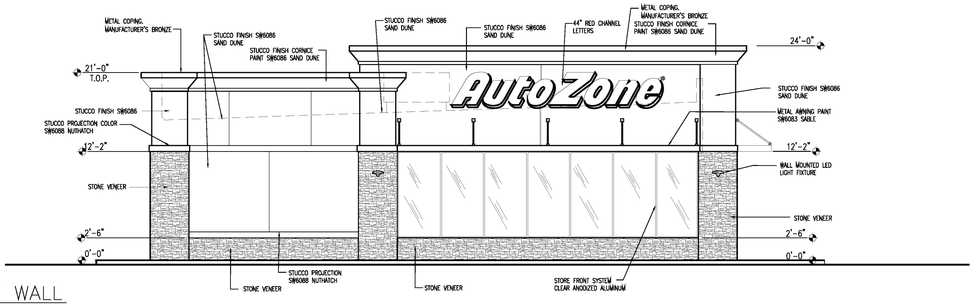
EXTERIOR ELEVATIONS

Architect: AUTOZONE
123 South Front Street
Memphis, Tennessee 38103
TEL: 901-495-8714 FAX: (901) 495-8969

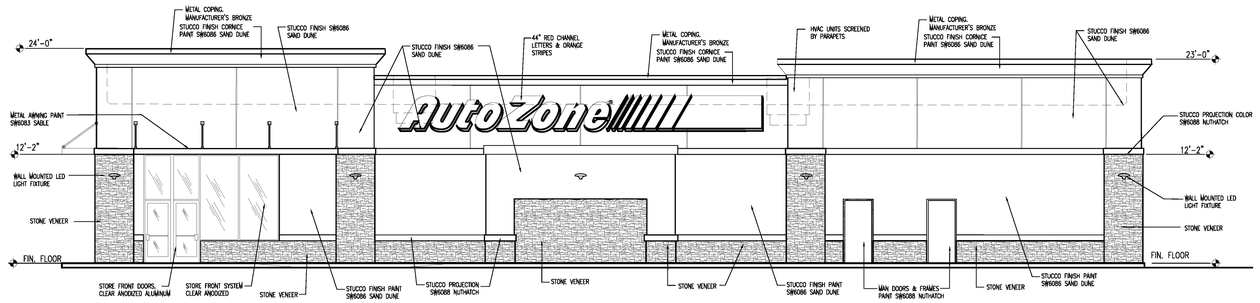
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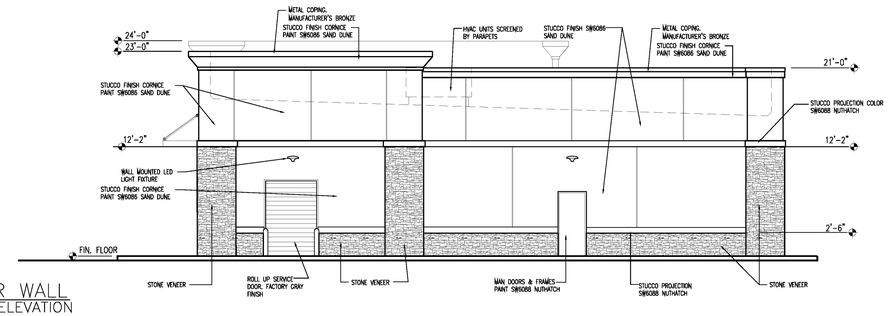
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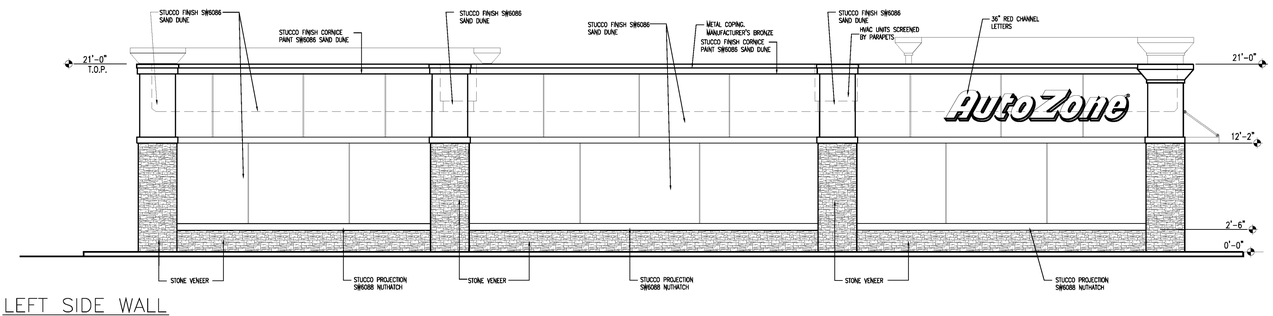
FRONT WALL
SOUTH ELEVATION



RIGHT SIDE WALL
EAST ELEVATION



REAR WALL
NORTH ELEVATION



LEFT SIDE WALL
WEST ELEVATION

REVISIONS

1	2	3
4	5	6

AutoZone Store No. 4499
ELVADO & MOHAVE
VICTORVILLE CA 92394

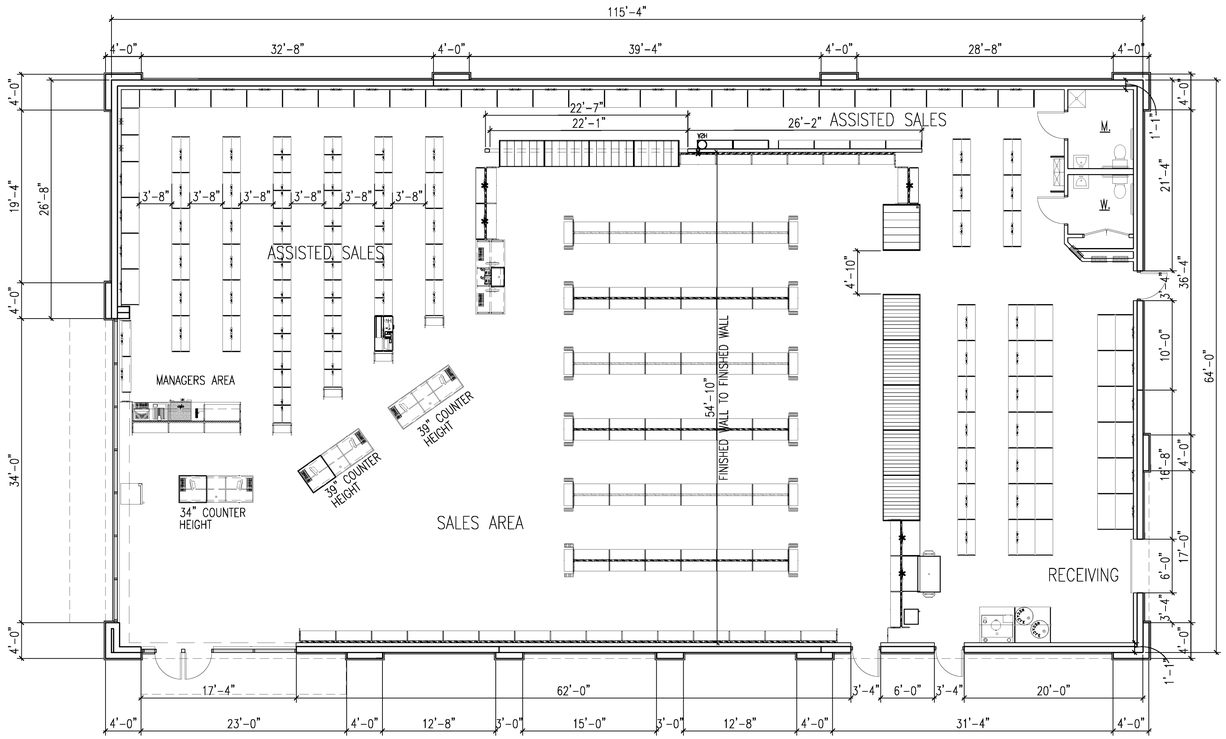
EXTERIOR ELEVATIONS

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Memphis, Tennessee 38103
TEL: 901-495-8714 FAX: (901) 495-8969

12/16/2020

7N2-L

CE



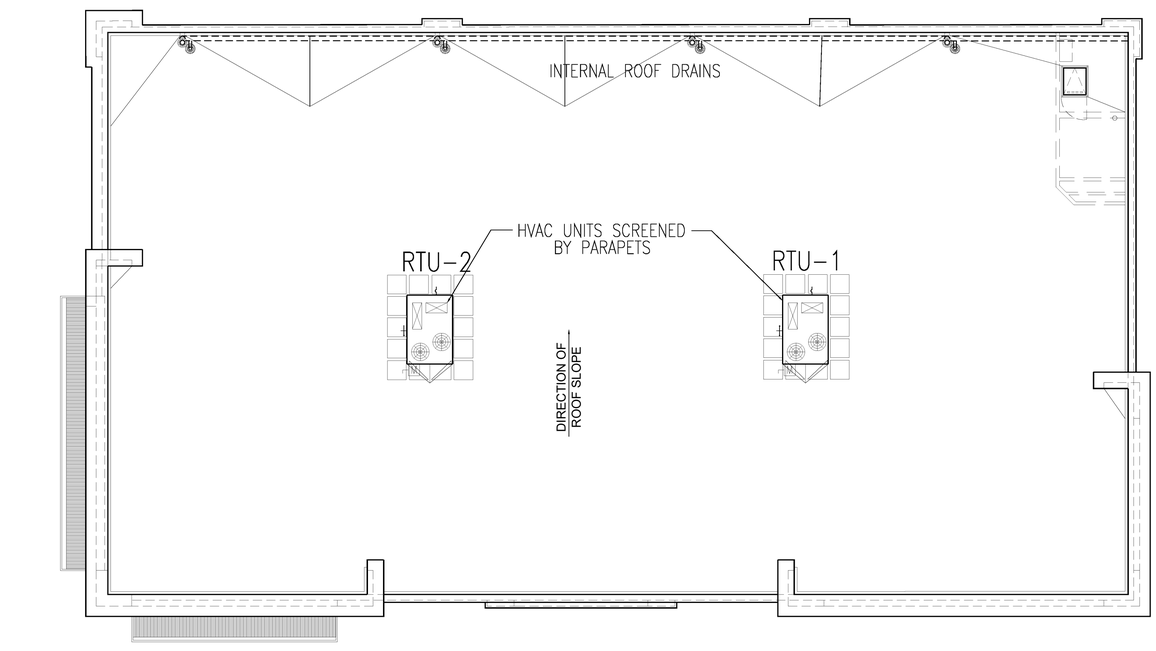
1 FLOOR PLAN

Scale: 1/8"=1'-0"

0 4' 8' 16'

NORTH

DESIGN CODES: 2019 CALIFORNIA BUILDING CODE
OCCUPANCY CLASSIFICATION: GROUP M (MERCANTILE)
TYPE OF CONSTRUCTION: VB
NUMBER OF STORIES: 2 ALLOWED / 1 SHOWN
BUILDING AREA: SHOWN 7147 SF NET INTERIOR
BUILDING AREA: SHOWN 7380 SF GROSS EXT.
BUILDING HEIGHT ALLOWED: 60' / 25' SHOWN
BUILDING AREA ALLOWED TYPE VB : 9000 SF
SPRINKLED: YES
OCCUPANT LOAD FOR EGRESS:
MERCANTILE: 7147/ 60 = 119



1 ROOF PLAN

Scale: 1/8"=1'-0"

0 4' 8' 16'

NORTH

REVISIONS

1	2	3
4	5	6

AutoZone Store No. 4499
ELVADO & MOHAVE
VICTORVILLE CA 92394
FLOOR PLAN / ROOF PLAN

Architect: AUTOZONE
123 South Front Street
Memphis, Tennessee 38103
TEL: 901-495-8714 FAX: (901) 495-8969

12/16/2020

7N2-R

PS-1

TENTATIVE PARCEL MAP NO. 20295

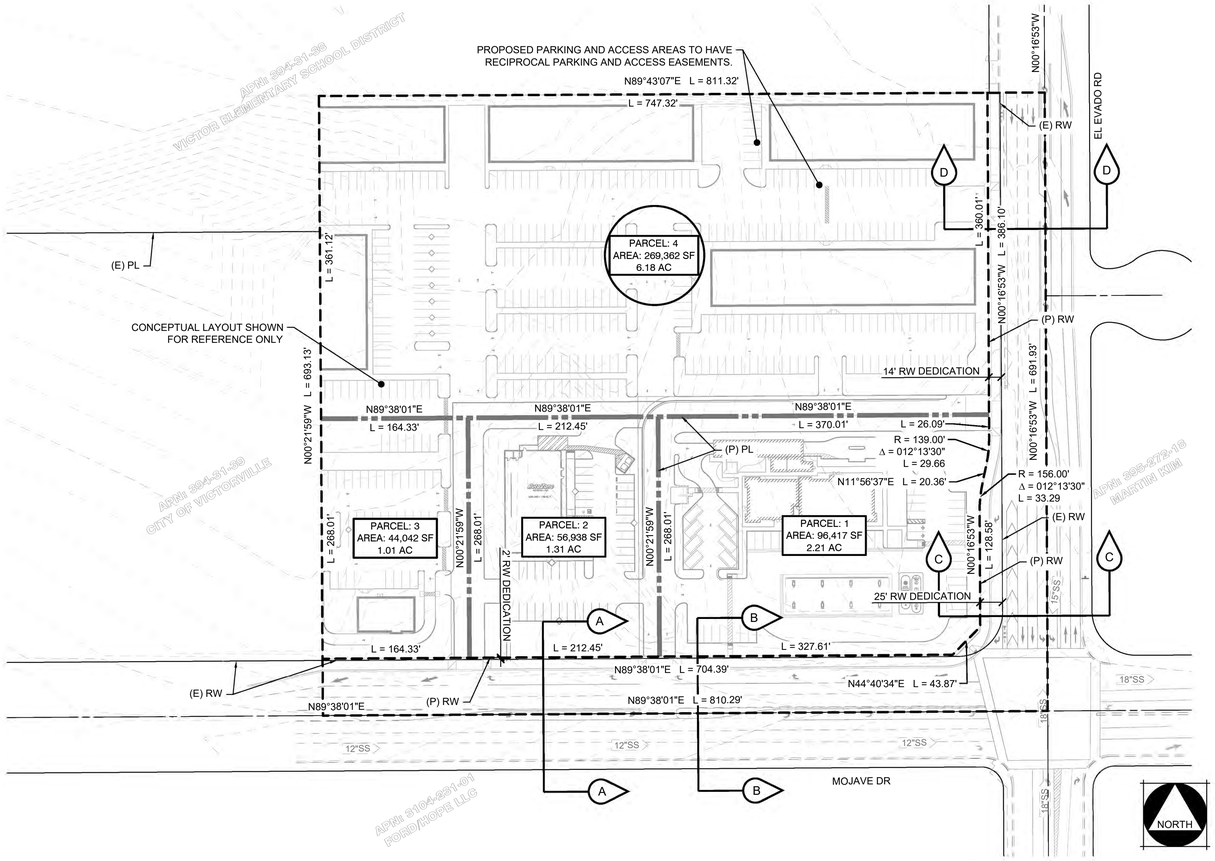
IN THE CITY OF VICTORVILLE, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA

LEGEND

- EXISTING CENTERLINE
- EXISTING RIGHT OF WAY
- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- SUBDIVISION BOUNDARY LINE
- EXISTING CURB & GUTTER
- FUTURE CURB & GUTTER (SHOWN FOR REFERENCE ONLY)
- EXISTING MAJOR CONTOURS (5' INTERVALS)
- EXISTING MINOR CONTOURS (1' INTERVALS)

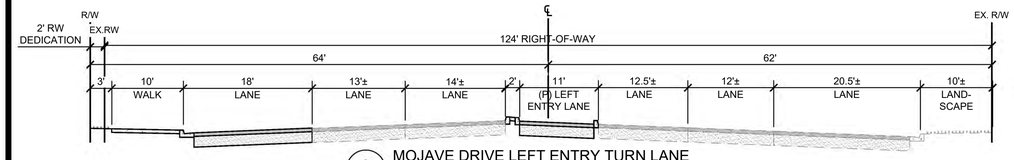
PARCEL INFORMATION:

ASSESSOR PARCEL INFORMATION		
ASSESSOR'S PARCEL NUMBER:	0394-031-36	
ASSESSOR'S GROSS ACREAGE:	11.00	
ASSESSOR'S NET ACREAGE:	10.71	
DESIGNATED LAND USE:	COMMERICAL	
PROPOSED PARCEL INFORMATION		
PARCEL IDENTIFICATION	SQUARE FEET	ACRES
PARCEL 1	96,417	2.21
PARCEL 2	56,938	1.31
PARCEL 3	44,042	1.01
PARCEL 4	269,362	6.18
TOTAL	466,759	10.71

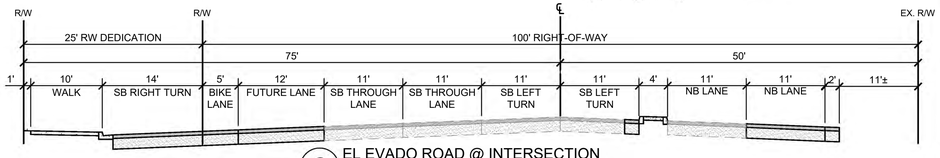


ABBREVIATION LIST

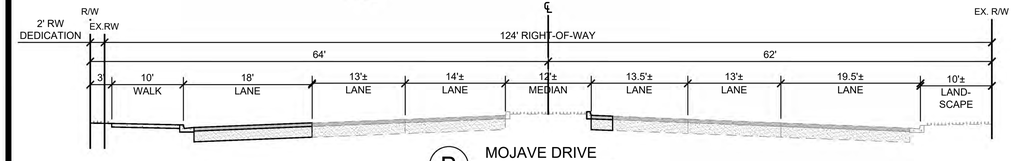
CL	CENTERLINE
(E)	EXISTING
(P)	PROPOSED
PL	PROPERTY LINE
RW	RIGHT OF WAY



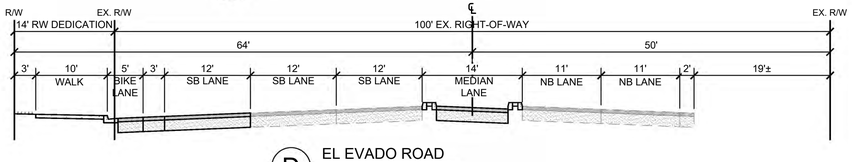
A MOJAVE DRIVE LEFT ENTRY TURN LANE



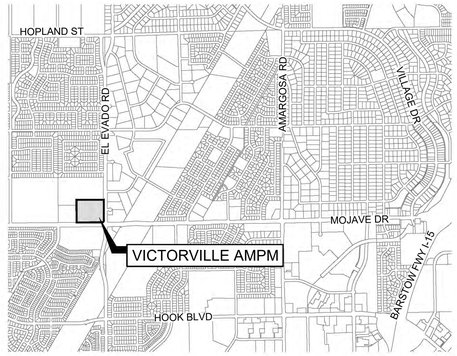
C EL EVADO ROAD @ INTERSECTION



B MOJAVE DRIVE



D EL EVADO ROAD



CITY OF VICTORVILLE, CA
VICINITY MAP
N.T.S

NORTH

LEGAL DESCRIPTION

THE LAND REFFERED TO HEREIN IS SITUATED IN THE STATE OF CALIFORNIA, COUNTY OF SAN BERNARDINO, CITY OF VICTORVILLE, AND DESCRIBED AS FOLLOWS:

BEING ALL OF PACEL 1 AS SHOWN ON PARCEL MAP NO. 18813, FILED FOR RECORD IN BOOK 225 OF PARCEL MAPS AT PAGES 37-39, COUNTY OF SAN BERNARDINO RECORDS, LYING IN THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 12, TOWNSHIP 5 NORTH, RANGE 5 WEST, SAN BERDARDINO MERIDIAN.

VICORVILLE BENCHMARK #V-213:

MOJAVE DR. @ EL EVADO RD., TC 2' WEST OF SW BCR
ELEVATION: 2937.86
DATUM: NAVD 29

BASIS OF BEARINGS:

THE CENTERLINE OF MOJAVE ROAD BEING N89°38'01"E. AS SHOWN ON PARCEL MAP NO. 17433, P.M.B 220/51-55.

CONTACT INFORMATION

OWNER/APPLICANT:
MIKE SATER
PHONE: (909) 293-7588
683 CLIFFSIDE DR
SAN DIMAS, CA 91773

CIVIL ENGINEER:
MCR ENGINEERING
CONTACT: MARSHALL SWIFT
PHONE: (209) 239-6229
1242 DUPONT CT
MANTECA, CA 95336

UTILITIES:

WATER:
CITY OF VICTORVILLE WATER
14343 CIVIC DRIVE
VICTORVILLE, CA 92392
PHONE: (760) 955-5001

GAS:
SOUTHWEST GAS CORPORATION
13471 MARIPOSA ROAD
VICTORVILLE, CA 92395
PHONE: (877) 860-6020

ELECTRIC:
SOUTHERN CALIFORNIA EDISON
12353 HESPERIA ROAD
VICTORVILLE, CA 92395
PHONE: (800) 655-4555

TELEPHONE:
VERISION COMMUNICATIONS
15055 LA PAZ DRIVE
VICTORVILLE, CA 92392
PHONE: (800) 483-4000

SANITATION:
CITY OF VICTORVILLE WATER
14343 CIVIC DRIVE
VICTORVILLE, CA 92392
PHONE: (760) 955-5001

CABLE:
CHARTER COMMUNICATIONS
12180 RIDGECREST RD., UNIT 102
VICTORVILLE, CA 92395
PHONE: (866) 499-8080

EASEMENTS:

REVISIONS			
No.	Description	Date	Approved

CITY CASE NO. (PSUB19-00050)

CITY OF VICTORVILLE
ENGINEERING DEPARTMENT
14343 Civic Drive, Victorville, CA 92392 (760) 955-5000

Approved By:

Brian W. Gengler, RCE C44730
City Engineer

DATE

REGISTERED PROFESSIONAL ENGINEER J. DAN EAVERSON No. C54088 EXP. 12-31-21 CIVIL STATE OF CALIFORNIA

APPROVED:

MCR ENGINEERING
www.mcreng.com
1242 DUPONT COURT
MANTECA, CA 95336
TEL : (209) 239 - 6229
FAX : (209) 239 - 8839

CITY OF VICTORVILLE
VICTORVILLE MOJAVE AMPM
TENTATIVE PARCEL MAP:

DRAWN BY:	DB
DESIGNED BY:	DE
CHECKED BY:	
SCALE:	AS SHOWN
DATE:	2/26/2021
SHEET NO.	1 OF 1

BASIS OF BEARINGS

THE CENTERLINE OF MOJAVE ROAD BEING N89°38'01"E. AS SHOWN ON PARCEL MAP NO. 17433, P.M.B 220/51-55.

VICORVILLE BENCHMARK #V-213:

MOJAVE DR. @ EL EVADO RD., TC 2' WEST OF SW BCR
ELEVATION: 2937.86
DATUM: NAVD 29

IMPROVEMENT PLAN FOR:

VICTORVILLE MOJAVE OFF-SITE

CITY OF VICTORVILLE, STATE OF CALIFORNIA

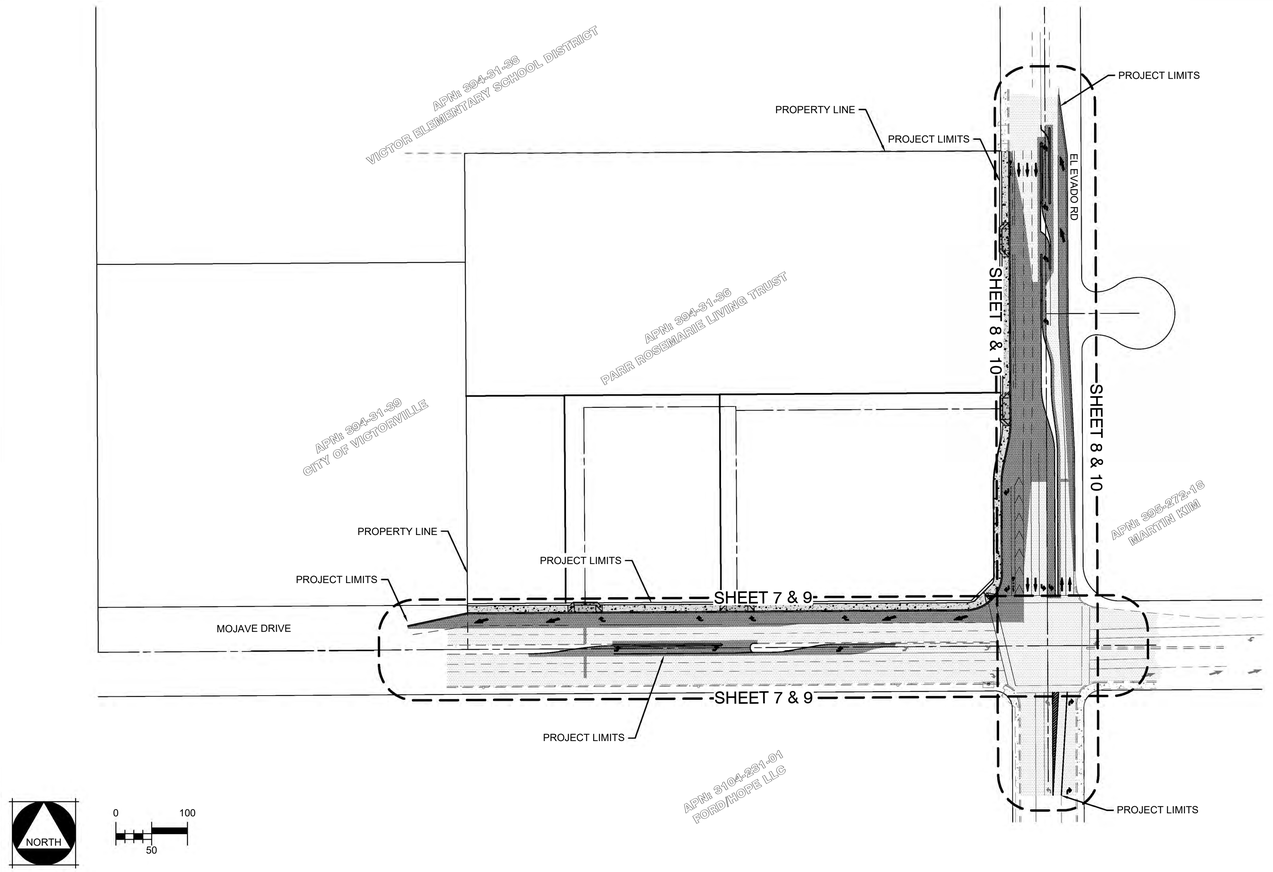
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LEGEND

	EXISTING	PROPOSED
WATER VALVE		
AIR RELEASE VALVE		
BLOWOFF		
FIRE HYDRANT		
WATER METER	W	W
SEWER MANHOLE	S	S
STORM MANHOLE	SD	SD
DRAIN INLET		
CURB INLET		
CLEANOUT		
SEWER MANHOLE NUMBER	EX 1	1
STORM MANHOLE NUMBER	EX1	1
WATER LINE	EX W	8"W
SANITARY SEWER	EX S	6"SS
STORM DRAIN	EX SD	12"SD
TYPICAL ELECTROLIER		
TYPICAL LUMINAIRE		
ELECTRICAL VAULT	E	E
SURVEY MONUMENT		
UTILITY POLE		
SIGNAGE		
ELEVATION	40.50TC 40.00P	40.50TC 40.00P
DIRECTION OF FLOW	2.00 %	2.00 %
ORIGINAL GROUND	+ 40.59	N/A
BARBED WIRE FENCE		
WOOD FENCE		
RETAINING WALL		
MASONRY WALL		
CURB, GUTTER & SIDEWALK		
TYPICAL RETURN WITH HANDICAP RAMP		

SITE PLAN



PROJECT CONTACTS

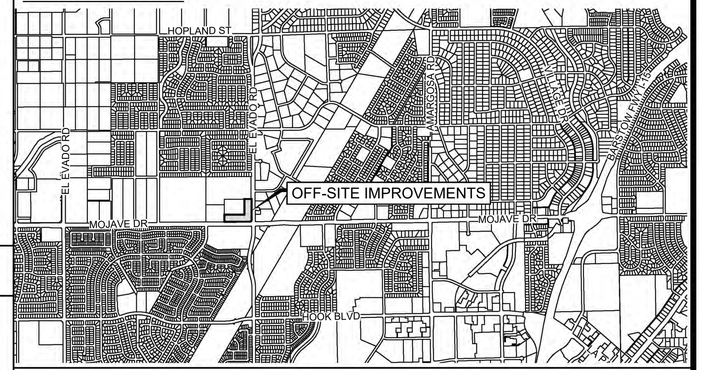
CIVIL ENGINEER:
MCR ENGINEERING
CONTACT: MARSHALL SWIFT
PHONE: (209) 239-6229
1242 DUPONT CT
MANTECA, CA 95336

SOILS ENGINEER:
SOIL EXPLORATION COMPANY, INC
REPORT #: 18103-01
REPORT DATE: JUNE, 2018
CONTACT: GENE K LUU
PHONE: (209) 333-6706
7535 JURUPA AVE
RIVERSIDE, CA 92504

DEVELOPER:
MIKE SATER
PHONE: (909) 293-7588
683 CLIFFSIDE DR
SAN DIMAS, CA 91773

CONTRACTOR:
COMPANY: TBD
CONTACT: TBD
PHONE: TBD
ADDRESS: TBD
LOCATION: TBD

VICINITY MAP



SHEET INDEX

APPROVALS

WDID#: PENDING

#	SHEET TITLE
NOTES & DETAILS	
1	COVER SHEET
2	GENERAL NOTES
3	STANDARD DETAILS
4	STANDARD DETAILS
5	STANDARD DETAILS
PLANS	
6	HORIZONTAL CONTROL PLAN
STRIPING & SIGNAGE PLAN	
7	STRIPING & SIGNAGE PLAN MOJAVE DRIVE
8	STRIPING & SIGNAGE PLAN EL EVADO ROAD
PLAN & PROFILES	
9	
10	EL EVADO ROAD
GRADING DETAILS	
11	GRADING DETAILS
EROSION CONTROL PLANS	
12	EROSION CONTROL PLAN

ABBREVIATION LIST

@	AT	G	GROUND	R	RADIUS
AB	AGGREGATE BASE	GB	GRADE BREAK	SD	STORM DRAIN
AC	ASPHALT CONCRETE	GW	GREASE WASTE	SHT	SHEET
ADA	AMERICAN DISABILITIES ACT	HGL	HYDRAULIC GRADE LINE	SNS	STREET NAME SIGN
BC	BEGINNING OF CURVE	HP	HIGH POINT	STA	STATION
BDRY	BOUNDARY	HPS	HIGH PRESSURE SODIUM	STD	STANDARD
BSL	BUILDING SET BACKLINE	INV	INVERT	S/W	SIDEWALK
BVC	BEGIN VERTICAL CURVE	IRR	IRRIGATION	SS	SANITARY SEWER
C	CONCRETE	LF	LINEAL FEET OR LINEAR FEET	S	SLOPE
C & G	CURB AND GUTTER	LP	LOW POINT	TB	THRUST BLOCK
CIP	CAST IN PLACE PIPE	MAX	MAXIMUM	TC	TOP OF CURB
CI	CURB INLET	MH	MAINTENANCE HOLE	TEMP	TEMPORARY
CL	CENTER LINE	MIN	MINIMUM	THRU	THROUGH
CO	CLEAN OUT	NTS	NOT TO SCALE	TI	TRAFFIC INDEX
CONC	CONCRETE	OG	ORIGINAL GROUND / GRADE	TPE	TREE PLANTING EASEMENT
COV	CITY OF VICTORVILLE	(P)	PROPOSED	TR	TRANSITION
CR	CURB RETURN	P	PAVEMENT	TYP.	TYPICAL
DIA	DIAMETER	P.A.E.	PRIVATE ACCESS EASEMENT	V	6" VERTICAL CURB
DIP	DUCTILE IRON PIPE	PP	POWER POLE	WS	WATER SERVICE
DW	DRIVEWAY	PL	PROPERTY LINE	W	WATER
D OR SD	DRAIN OR STORM DRAIN	PRC	POINT OF REVERSE CURVATURE	±	PLUS OR MINUS (NOT EXACT)
EC	END OF CURVE	PT	POINT	U.N.O.	UNLESS NOTED OTHERWISE
EG	EXISTING GROUND	PUE	PUBLIC UTILITY EASEMENT		
ELEV	ELEVATION	PVC	POLYVINYL CHLORIDE PIPE		
EP	EDGE OF PAVEMENT	RCP	REINFORCED CONCRETE PIPE		
ESMT	EASEMENT	RGRCP	RUBBER GASKET REINFORCED CONCRETE PIPE		
EVA	EMERGENCY VEHICLE ACCESS	RET	RETURN		
EVC	END OF VERTICAL CURVE				
(E), EX, EXIST	EXISTING				
FG	FUTURE/PROPOSED GRADE				
FH	FIRE HYDRANT				
FL	FLOW LINE				

UTILITIES:

WATER:
CITY OF VICTORVILLE WATER
14343 CIVIC DRIVE
VICTORVILLE, CA 92392
PHONE: (760) 955-5001

GAS:
SOUTHWEST GAS CORPORATION
13471 MARIPOSA ROAD
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CABLE:
CHARTER COMMUNICATIONS
12180 RIDGECREST RD., UNIT 102
VICTORVILLE, CA 92395
PHONE: (866) 499-8080

811 Know what's below. Call before you dig. 811 / 800-227-2600

DEVELOPER.: MIKE SATER
ADDRESS: 683 CLIFFSIDE DR
CITY/STATE: SAN DIMAS, CA 91773
PHONE #: (909) 293-7588

REGISTERED PROFESSIONAL ENGINEER ROBERT B. MARLER No. C70159 EXP. 9-30-22 CIVIL STATE OF CALIFORNIA

APPROVED:

JOB NO.: 20-082
DATE: 1/20/2021
SCALE: AS SHOWN
DR. BY: DB
CK. BY: RM
ADDRESS: MOJAVE DRIVE & EL EVADO

MCR ENGINEERING
www.mcreng.com
1242 DUPONT COURT
MANTECA, CA 95336
TEL : (209) 239 - 6229
FAX : (209) 239 - 8839

REVISIONS

No.	Description	Date	Approved

CITY OF VICTORVILLE CALIFORNIA

CITY CASE NO. (to be assigned at plan submittal)

CITY OF VICTORVILLE
ENGINEERING DEPARTMENT
14343 Civic Drive, Victorville, CA 92392 (760) 955-5000

Approved By:

Brian W. Gengler, RCE C44730
City Engineer

DATE

IMPROVEMENT PLANS FOR:
VICTORVILLE MOJAVE OFF-SITE
COVER SHEET
CITY OF VICTORVILLE

SHEET NO.
1
OF 12 SHEET

CITY OF VICTORVILLE (C.O.V.) GRADING IMPROVEMENTS GENERAL NOTES

1. GRADING SHALL CONFORM TO ARTICLE 2 OF CHAPTER 5 OF TITLE 16 OF THE CITY OF VICTORVILLE MUNICIPAL CODE.
2. A GRADING PERMIT SHALL BE OBTAINED FROM THE CITY OF VICTORVILLE BUILDING DEPARTMENT PRIOR TO THE START OF GRADING WORK.
3. CONTRACTOR SHALL GIVE THE CITY OF VICTORVILLE BUILDING DEPARTMENT AT LEAST 2 WORKING DAYS NOTICE TO SCHEDULE A PRECONSTRUCTION MEETING WITH THE INSPECTOR PRIOR TO THE START OF WORK.
4. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT AT 1 (800) 422-4133 AT LEAST 2 WORKING DAYS IN ADVANCE OF STARTING WORK.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSELF/HERSELF WITH SITE CONDITIONS AND OF ANY UNDERGROUND UTILITIES SHOWN OR NOT SHOWN ON THESE PLANS.
6. THE CONTRACTOR SHALL GIVE THE CITY OF VICTORVILLE BUILDING DEPARTMENT AT LEAST 1 WORKING DAY NOTICE PRIOR TO ALL INSPECTIONS AT (760) 955-5103. A RE-INSPECTION FEE WILL BE RENDERED ON EACH OCCASION WHEN THE CONTRACTOR IS NOT READY FOR THE INSPECTION AT THE SCHEDULED TIME. NO FURTHER INSPECTIONS WILL BE PERFORMED UNTIL SAID RE-INSPECTION FEE IS PAID.
7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT SURVEY MONUMENTS IN PLACE AND THE CONTRACTOR SHALL BE FINANCIALLY RESPONSIBLE FOR RESETTING DAMAGED OR DESTROYED MONUMENTS.
8. JOSHUA TREES SHALL BE PROTECTED IN PLACE OR RELOCATED AS APPROVED BY THE PARKS DIVISION OF THE CITY OF VICTORVILLE DEPARTMENT OF COMMUNITY SERVICES AT THE CONTRACTOR'S EXPENSE.
9. NO GRADING SHALL COMMENCE PRIOR TO 7:00 A.M. EACH WORKING DAY.
10. DUST CONTROL SHALL INCLUDE:
    a. GRADING OPERATIONS AND CONSTRUCTION SHALL BE CONDUCTED IN A MANNER AND/OR MEASURES TAKEN TO PREVENT SAND, DUST, AND DEBRIS TO BLOW ONTO OTHER PROPERTIES. TEMPORARY FENCING SHALL BE ERECTED AS REQUIRED BY CITY STAFF DURING CONSTRUCTION TO PREVENT WINDBLOWN DEBRIS FROM LEAVING THE PROJECT SITE AND TO ENSURE PUBLIC SAFETY. AN ADEQUATE DUST PALLIATIVE SHALL BE USED AT ALL TIMES. AFTER COMPLETION OF GRADING THE DEVELOPER SHALL MAINTAIN THE SITE SUCH THAT SAND, DUST AND DEBRIS DO NOT BLOW ONTO OTHER PROPERTIES.
    b. PROVISIONS FOR CONTINUOUS WATERING DURING GRADING OPERATIONS INCLUDING A 24-HOUR ON CALL OPERATOR OR AS DIRECTED BY CITY STAFF.
    c. UPON COMPLETION OF THE PROJECT, THE ENTIRE SITE IS TO BE STABILIZED BY TREATING WITH MAGNESIUM CHLORIDE OR OTHER APPROVED METHOD AND AS APPROVED BY CITY STAFF.
11. CLEAR ALL CUT AND FILL AREAS OF VEGETATION AND ORGANIC MATERIALS TO A DEPTH OF SIX (6) INCHES OR MORE.
12. FILL SHALL BE PLACED IN LIFTS OF EIGHT (8) INCHES OR LESS AND SUFFICIENT MOISTURE ADDED AND MATERIAL COMPACTED TO ACHIEVE THE REQUIRED PERCENT OF COMPACTION.
13. NO ROCKS GREATER THAN SIX (6) INCHES IN DIAMETER MAY BE PLACED IN FILL.
14. COMPACTION SHALL BE A MINIMUM OF NINETY PERCENT (90%).
15. MINIMUM SLOPE FOR ALL GRADED AREAS SHALL BE ONE PERCENT (1.00%) UNLESS ON SMOOTH PCC, THEN THE MINIMUM SLOPE SHALL BE ONE-HALF PERCENT (0.50%).
16. MAXIMUM SLOPES SHALL BE 2:1. SLOPE STABILIZATION SHALL BE PROVIDED ON ALL SLOPES IN ACCORDANCE WITH ARTICLE 2 OF CHAPTER 5 OF TITLE 16 OF THE CITY OF VICTORVILLE MUNICIPAL CODE.
17. ALL OFF-SITE IMPROVEMENTS SHALL BE CONSTRUCTED TO CITY OF VICTORVILLE STANDARDS
18. ALL FENCES AND WALLS ARE UNDER SEPARATE PERMIT.
19. RETAINING WALLS SHALL BE CONSTRUCTED TO CITY OF VICTORVILLE STANDARDS OR WALL CALCULATIONS SUBMITTED TO THE BUILDING DEPARTMENT FOR CITY APPROVAL.
20. BUILDING PAD AND GRADING PLAN CERTIFICATION SHALL BE COMPLETED BY A LICENSED ENGINEER IN ACCORDANCE WITH ARTICLE 2 OF CHAPTER 5 OF TITLE 16 OF THE CITY OF VICTORVILLE MUNICIPAL CODE.
21. THE MAXIMUM ALLOWABLE FOUNDATION BEARING PRESSURE SHALL BE 1500 PSI UNLESS APPROVED BY THE CITY OF VICTORVILLE BUILDING DEPARTMENT.
22. THE CONTRACTOR SHALL COMPLY WITH THE GRADING ORDINANCE SECTION 16-5.02.060 AND SECTION 16-5.02.070 OF THE CITY OF VICTORVILLE MUNICIPAL CODE AS IT RELATES TO BORROW PITS, EXPORT SITES AND HAUL ROUTES PRIOR TO ISSUANCE OF A GRADING PERMIT.
23. A PALEONTOLOGICAL MONITOR MUST BE PRESENT DURING ALL PHASES OF GRADING WHEN REQUIRED BY CITY STAFF.
24. APPROXIMATE QUANTITIES:

    CUT ___________ CU. YDS.

    FILL ___________ CU. YDS.

    SHRINKAGE _________ %
25. CONSTRUCTION ACTIVITIES OF ONE (1) ACRE OR MORE SHALL REQUIRE A GENERAL CONSTRUCTION STORM WATER PERMIT. FOR MORE INFORMATION, YOU MAY CALL THE STATE WATER RESOURCES CONTROL BOARD – DIVISION OF WATER QUALITY AT (916) 657-1146.
26. ALL GRADING SHALL COMPLY WITH THIS GRADING PLAN AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT ENTITLED ____, PREPARED BY ________________________, AND DATED __________________.
27. WASTE DISCHARGE IDENTIFICATION NUMBER (WDID): PENDING

VICTORVILLE WATER GENERAL NOTES - EFFECTIVE 4-21-08

(C.O.V.) STANDARDS AND SPECIFICATIONS

1. CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE OF CALIFORNIA AND LOCAL REGULATIONS, INCLUDING SAFETY REGULATIONS.
2. ALL WORK AND MATERIAL SHALL CONFORM TO THE HIGHER STANDARD IN THE LATEST EDITION OF EITHER VICTORVILLE WATER DISTRICT'S (HEREAFTER REFERRED TO AS "THE CITY") GENERAL NOTES OR STANDARD DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR SECURING COPIES OF THE CITY'S LATEST WATER GENERAL NOTES AND STANDARD DRAWINGS PRIOR TO START OF CONSTRUCTION.
3. ANY CONSTRUCTION AND/OR MATERIALS NOT COVERED IN THE CITY'S WATER NOTES AND STANDARDS ARE SUBJECT TO APPROVAL BY THE CITY.
4. ALL MATERIALS, TESTING AND INSPECTION OF PIPE SHALL BE IN CONFORMITY WITH THE REQUIREMENTS OF THE CITY'S WATER STANDARDS AND AMERICAN WATER WORKS ASSOCIATION STANDARDS. FAILURE TO MEET ANY OF THESE SPECIFICATIONS WILL BE CAUSE FOR REJECTION.

(C.O.V.) CONTRACTOR RESPONSIBILITIES

1. THE CONTRACTOR SHALL HAVE A CURRENT CALIFORNIA CLASS A AND/OR C34 PIPELINE CONTRACTORS LICENSE.
2. THE CONTRACTOR SHALL VERIFY THE ELEVATIONS OF ALL EXISTING WATER MAINS AT POINTS OF CONNECTION AND CROSSINGS PRIOR TO ANY CONSTRUCTION OF FACILITIES. ANY NECESSARY CHANGES OF WATER LINE DEPTH OR ALIGNMENT DURING CONSTRUCTION SHALL BE IMMEDIATELY REPORTED TO THE CITY FOR REVIEW AND APPROVAL PRIOR TO CONTINUANCE OF CONSTRUCTION.
3. APPROVAL OF THESE PLANS BY THE CITY DOES NOT GUARANTEE THE ACCURACY OR EXISTENCE OF ANY EXISTING UNDERGROUND FACILITIES, WHETHER OR NOT SAID FACILITIES ARE SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR LOCATING AND PROTECTING FROM DAMAGE ALL EXISTING UTILITIES AND IMPROVEMENTS WHETHER OR NOT SHOWN ON THESE PLANS. ANY CONTRACTOR PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE THEIR SELF WITH THE SITE AND SHALL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY, OR INDIRECTLY, FROM THEIR OPERATIONS, WHETHER OR NOT SAID FACILITIES ARE SHOWN ON THESE PLANS.
4. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING IN PLACE ALL SURVEY MONUMENTS; ANY SURVEY MONUMENTS DISTURBED DURING THE COURSE OF CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
5. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE CITY HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONJUNCTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.

(C.O.V.) PERMITS & NOTICES

1. THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN THE NECESSARY PERMITS FROM THE CITY AND APPROPRIATE LOCAL AGENCIES PRIOR TO ANY CONSTRUCTION WITHIN ANY STREET, RIGHT-OF-WAY, OR EASEMENT. NO WORK SHALL BE PERFORMED ON THE WATER SYSTEM UNTIL A WATER INSPECTION PERMIT HAS BEEN ISSUED AND THE CITY HAS RECEIVED COPIES OF THE CONSTRUCTION DRAWINGS. AN APPROVED SET OF PLANS SHALL BE AVAILABLE ON-SITE AT ALL TIMES DURING CONSTRUCTION.
2. THE CONTRACTOR MUST NOTIFY THE CITY AT LEAST ONE (1) WEEK PRIOR TO BEGINNING WORK.
3. THE CONTRACTOR SHALL NOTIFY THE CITY AT LEAST FOUR (4) WORKING DAYS PRIOR TO ANY TIE-INS TO EXISTING WATERLINES. ALL TIE-INS MUST BE WITNESSED AND APPROVED BY THE PUBLIC WORKS INSPECTOR.
4. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (1-800-422-4133) AT LEAST TWO WORKING DAYS (48 HOURS) PRIOR TO ANY EXCAVATION.
5. THE CONTRACTOR SHALL GIVE AT LEAST TWO (2) WORKING DAYS (48 HOURS) NOTICE FOR INSPECTION REQUESTS.

(C.O.V.) GENERAL CONSTRUCTION REQUIREMENTS

1. CURB AND GUTTER SHALL BE PLACED PRIOR TO THE INSTALLATION OF THE WATER MAIN, SERVICE LINES, METERS AND FIRE SERVICES.
2. ALL WORK SHALL BE INSPECTED BY CITY PUBLIC WORKS, OR IT'S DULY AUTHORIZED AGENT. CONTRACTOR SHALL NOT BACKFILL TRENCH UNTIL ALL OF THE FITTINGS AND PIPES HAVE PASSED INSPECTION BY THE CITY.
3. WHEN A CONSTRUCTION CONFLICT ARISES, THE AFFECTED PORTION WILL BE PUT ON HOLD UNTIL A RESOLUTION IS REACHED BETWEEN THE CITY AND THE OWNER. THE CONTRACTOR MUST OBTAIN AUTHORIZATION FROM CITY ENGINEERING PRIOR TO ANY FIELD CHANGES. THE CITY RESERVES THE RIGHT TO RELOCATE PORTIONS OF THE PROPOSED WORK IN ORDER TO AVOID EXISTING UTILITIES, AT NO EXPENSE TO THE CITY.
4. CONCRETE STABILIZING BLOCKS SHALL BE PROVIDED AT FIRE HYDRANT RISERS, VAULT OUTLETS, AND HOT TAPS LARGER THAN 4-INCHES. A POLYETHYLENE BOND BREAKER SHALL BE USED BETWEEN CONCRETE AND ANY WATER FACILITIES.
5. ADDITIONAL VALVES, HYDRANTS, AIR-VACS, BLOW-OFFS, AND RESTRAINED JOINTS MAY BE REQUIRED AT ANY DEAD END LINES RESULTING FROM PHASE BREAKS, WHETHER MARKED ON PLANS OR NOT. INSTALLATION AND MATERIALS REQUIRED FOR PHASE BREAKS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE SUBJECT TO APPROVAL BY THE PUBLIC WORKS INSPECTOR.
6. BACKFILL, COMPACTION AND RE-SURFACING IN EXISTING STREETS SHALL CONFORM TO REQUIREMENTS OF LATEST CITY OR COUNTY PERMIT SPECIFICATIONS.
7. ANY EXISTING AIR VACS, FIRE HYDRANTS, VALVE CANS, ETC. AFFECTED BY THE PROJECT MUST BE ADJUSTED BY THE CONTRACTOR IN ELEVATION AND/OR LOCATION AS DIRECTED BY PUBLIC WORKS INSPECTOR.
8. THE CONTRACTOR SHALL REPLACE IN KIND, ANY PAVING, CURB AND GUTTER, OR OTHER IMPROVEMENTS CUT, REMOVED OR DAMAGED BY THIS PROJECT.
9. ALL WATER FACILITIES TO BE REMOVED AND SALVAGED ARE TO BE RETURNED TO THE CITY WATER YARD, IF REQUESTED BY PUBLIC WORKS INSPECTOR.

(C.O.V.) WATER MAIN & VALVES

1. STANDARD WATER MAIN LOCATION IS 5 TO 7 FEET FROM CURB FACE; OTHER LOCATIONS MUST BE APPROVED BY THE CITY.
2. WATER MAINS SHALL BE 8-INCH DIAMETER MINIMUM OR AS SHOWN ON THE DRAWINGS.
3. WATER MAIN SHALL BE INSTALLED TO THE GRADES SHOWN ON THE DRAWINGS, WITH A MINIMUM OF 36" OF COVER FROM TOP OF PIPE TO FINAL GRADE.
4. MAIN LINE VALVE SIZES 6-IN TO 10-IN SHALL BE GATE VALVES AND VALVES 12-INCH AND LARGER SHALL BE BUTTERFLY VALVES, WITH THE EXCEPTION OF TAPPING VALVES. BUTTERFLY VALVES MUST HAVE FLANGE X FLANGE OUTLETS. ALL VALVES SHALL BE FLANGED DIRECTLY TO A FITTING.
5. ALL VALVES INSTALLED BY THE CONTRACTOR SHALL BE ACCESSIBLE FOR OPERATION COMPLETE WITH VALVE CAN TO FINISHED GRADE DIRECTLY FOLLOWING CONNECTIONS TO EXISTING WATER SYSTEM. ALL VALVE OPERATIONS DEEPER THAN 6 FEET SHALL HAVE POWDER COATED STEEL OPERATOR EXTENSIONS TO RAISE THE OPERATOR TO A DEPTH OF 3 FEET BELOW GROUND SURFACE. THE CONTRACTOR SHALL ADJUST ALL VALVE COVERS TO GRADE BEFORE FINAL PAVING.
6. THE CONTRACTOR SHALL INSTALL PIPE AND FITTINGS WITH RESTRAINED JOINTS AT CHANGES OF DIRECTION AND GRADE WHETHER OR NOT SHOWN ON THE PLANS. RESTRAINED JOINT CALCULATIONS SHALL BE PERFORMED BY THE ENGINEER USING THESE PARAMETERS AS A MINIMUM: SOIL TYPE SM; SAFETY FACTOR 1.5 TO 1; TYPE 5 TRENCH; 3.5 FT DEPTH OF COVER UNLESS OTHERWISE SHOWN ON THE PLANS; 225 PSI TEST PRESSURE. RESTRAINTS ARE ALSO REQUIRED ON CURVES WITH A RADIUS LESS THAN 380 FEET.
7. PIPE DELIVERED TO THE SITE SHALL BE PROTECTED BY THE CONTRACTOR FROM DUST OR OTHER CONTAMINATION PRIOR TO PLACING IN TRENCH; PIPE ENDS SHALL BE COVERED OR PLUGGED AT ALL TIMES. AT THE END OF EACH DAY'S WORK, THE CONTRACTOR SHALL ENSURE THAT ALL OPENINGS INTO THE PIPELINE ARE SECURELY PLUGGED AND STOPPED.
8. PIPE SHALL BE HANDLED SO AS TO PROTECT PIPE JOINTS, LINING AND COATING, AND CAREFULLY BEDDED TO PROVIDE CONTINUOUS BEARING AND PREVENT SETTLEMENT. PIPE SHALL BE PROTECTED AGAINST FLOATATION AT ALL TIMES.
9. PIPE JOINTS SHALL NOT BE DEFLECTED AT AN ANGLE GREATER THAN THE MAXIMUM ANGLE RECOMMENDED BY THE PIPE MANUFACTURER. MINIMUM PIPE SEGMENT LENGTH FOR C-900 SHALL BE 3-FEET OR AS RECOMMENDED BY MANUFACTURER.
10. IMPORTED SAND (100 PERCENT #30 SAND OR BETTER) SHALL BE USED FOR PIPE BEDDING (MINIMUM OF 6-INCHES DEEP) AND BACKFILL TO A DEPTH OF 12-INCHES ABOVE PIPE. BEDDING MUST BE INSPECTED BY PUBLIC WORKS INSPECTOR BEFORE PIPE IS INSTALLED.
11. NO PIPELINE SHALL BE INSTALLED ON FILL MATERIAL WITHOUT FIRST MEETING IN-PLACE DENSITY TESTS, IF REQUIRED BY PUBLIC WORKS INSPECTOR. COMPACTION IN INTERMEDIATE ZONE SHALL BE COMPACTED TO 90% RELATIVE COMPACTION.
12. PROVIDE A MINIMUM OF 10 FEET HORIZONTAL SEPARATION AND 4-INCH VERTICAL SEPARATION BETWEEN WATER AND SEWER OR STORM DRAIN MAINS AND LATERALS. WHEN A WATERLINE CROSSES UNDER A SEWER OR STORM DRAIN, THE CITY REQUIRES SPECIAL CONSTRUCTION; SEE STANDARD DRAWINGS FOR UNDERCROSSINGS. HORIZONTAL SEPARATION LESS THAN 10-FEET MUST BE APPROVED BY THE CITY.
13. INSULATED COPPER WIRE IS TO BE LAID ON TOP OF ALL PIPE WITH CONDUCTING CONNECTIONS TO ALL ABOVE GROUND FACILITIES AND SECURED TO THE WATER MAIN AT 6 FOOT INTERVALS. 3-INCH WIDE WATER ALARM TAPE SHALL BE INSTALLED 1-FOOT ABOVE PIPE.
14. ALL BELOW GROUND NUTS AND BOLTS SHALL HAVE A BITUMINOUS COATING APPLIED TO INHIBIT MATERIAL CORROSION.

(C.O.V.) FIRE HYDRANTS & AIR VACS

1. FIRE HYDRANTS SHALL BE SPACED AT APPROXIMATELY 300 FEET APART OR AS APPROVED BY THE FIRE DEPARTMENT. HYDRANTS SHALL BE PLACED A MINIMUM OF 5 FEET FROM ANY OBSTRUCTION. CENTER OF HYDRANT SHALL BE PLACED ON A LOT LINE WHEN POSSIBLE. ALL FIRE HYDRANT LOCATIONS MUST BE APPROVED BY THE GOVERNING FIRE DISTRICT.
2. FIRE HYDRANTS AT INTERSECTIONS SHALL BE LOCATED PER CITY OF VICTORVILLE STANDARD S-12.
3. A MAXIMUM OF ONE EXTENSION MAY BE USED TO ADJUST A FIRE HYDRANT TO PROPER ELEVATION.
4. ALL FIRE HYDRANTS TO BE BAGGED AT THE TIME OF INSTALLATION. BAG SHALL NOT BE REMOVED UNTIL INSTRUCTED BY PUBLIC WORKS INSPECTOR.
5. AN AIR RELEASE VALVE SHALL BE INSTALLED AT EVERY HIGH POINT IN THE SYSTEM, WHETHER OR NOT SHOWN ON THE PLANS.

(C.O.V) SERVICES & METERS

1. ALL COMMERCIAL AND INDUSTRIAL WATER METER SERVICES 1-INCH AND LARGER SHALL HAVE A DEPARTMENT OF HEALTH SERVICES APPROVED REDUCED PRESSURE BACKFLOW ASSEMBLY INSTALLED AND TESTED PRIOR TO ACTIVATION OF WATER SERVICE.
2. ALL HOMES THAT REQUIRE FIRE SPRINKLERS SHALL HAVE A DEPARTMENT OF HEALTH SERVICES APPROVED REDUCED PRESSURE BACKFLOW ASSEMBLY INSTALLED AND TESTED PRIOR TO ACTIVATION OF WATER SERVICE.
3. METER BOXES SHALL BE LOCATED TO CLEAR DRIVEWAYS, WHETHER OR NOT SHOWN ON THE PLAN. SERVICE LOCATIONS SHALL BE COORDINATED WITH THE PUBLIC WORKS INSPECTOR. THE CONTRACTOR SHALL ADJUST METER BOXES TO SIDEWALK GRADE BEFORE SIDEWALKS ARE POURED.
4. METER BOXES LOCATED NEAR LIGHT POLES SHALL HAVE A FOUR (4) FOOT SEPARATION FROM LIGHT POLE TO ANGLE STOP.

(C.O.V.) TESTING & DISINFECTION

1. PRIOR TO THE ACTIVATION OF ANY NEWLY CONSTRUCTED WATER LINES, OR ANY CONNECTIONS TO EXISTING SYSTEMS, CONTRACTOR SHALL CHLORINATE BY GAS OR LIQUID INJECTION OF THE NEW PIPELINE TO 100 PPM. ALL CHLORINATION OF NEW WATER MAINS SHALL HOLD A MINIMUM OF 25 PPM FOR A 24-HOUR PERIOD. AFTER A 25 PPM RESIDUAL HAS BEEN MAINTAINED FOR 24 HOURS, THE CONTRACTOR SHALL FLUSH THE PIPELINE UNTIL A CHLORINE RESIDUAL BETWEEN 0.8 PPM AND 0.4 PPM IS OBTAINED. THE CHLORINE RESIDUAL CAN ONLY DROP A MINIMUM OF 0.2 PPM IN A 24 HOUR PERIOD, AND NEVER DROP BELOW 0.2 PPM. IF THE RESIDUAL IS NOT MAINTAINED, THE PIPELINE SHALL BE RE-FLUSHED AND SAMPLED AFTER AN ADDITIONAL 24 HOUR PERIOD. ONCE THIS REQUIREMENT IS MET, A BACTERIA SAMPLE MAY BE TAKEN. FLUSHING, DE-CHLORINATION AND TESTING SHALL BE COORDINATED WITH THE PUBLIC WORKS INSPECTOR. THE HYPER-CHLORINATED DISINFECTION WATER SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH CURRENT REGULATIONS.
2. WATER MAIN SHALL BE HYDRO-TESTED AT 225 P.S.I. FOR A MINIMUM OF 2 HOURS AT THE HIGHEST POINT IN THE PIPING SYSTEM. FOLLOWING THE HYDROSTATIC TEST, THE PIPE SHALL BE LEAK-TESTED AT 150 P.S.I. FOR A MINIMUM OF 2 HOURS. THERE SHALL BE ZERO PRESSURE LOSS DURING THE LEAK TEST. ALL TESTING SHALL BE VERIFIED BY THE PUBLIC WORKS INSPECTOR. THE USE OF BULK HEADS FOR TESTING MUST HAVE PRIOR APPROVAL OF THE CITY.

(C.O.V.) WATER ACTIVATION

1. WATER WILL NOT BE TURNED ON TO THE PROJECT UNTIL ALL WORK IS COMPLETE AND APPROVED BY THE PUBLIC WORKS INSPECTOR AND ALL FINANCIAL PAPERWORK HAS BEEN SUBMITTED.
2. PRIOR TO INSTALLATION OF WATER METERS, THE CONTRACTOR MUST COMPLETE PUNCH LIST ITEMS FOR THE ENTIRE JOB, OBTAIN A WILL SERVE LETTER (ALLOW 3 WEEKS FOR APPROVAL), AND PAY CONNECTION FEES FOR THE DESIRED METERS. ALLOW 2 WEEKS FOR METER INSTALLATION ON AN EXISTING SERVICE; ALLOW 6 WEEKS FOR INSTALLATION OF A METER AND SERVICE LINE.
3. PRIOR TO METER INSTALLATION, THE CONTRACTOR SHALL ALSO RETURN A LEGIBLE AND CLEAN SET OF "AS-BUILT" DRAWINGS TO THE CITY.

(C.O.V.) SEWER IMPROVEMENTS GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THE LATEST REVISION OF THE CITY OF VICTORVILLE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, AND STANDARD DRAWINGS ON FILE WITH THE CITY OF VICTORVILLE.
2. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUALLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER, THE ENGINEER, AND THE CITY HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY PERMITS REQUIRED BY THE CITY OF VICTORVILLE ENGINEERING DEPARTMENT IN ORDER TO DO THE WORK SHOWN ON THESE PLANS.
4. THE CONTRACTOR SHALL GIVE THE CITY OF VICTORVILLE ENGINEERING DEPARTMENT (760) 955-5158 AT LEAST 2 WORKING DAYS NOTICE TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE INSPECTOR PRIOR TO START OF WORK.
5. THE CONTRACTOR SHALL NOTIFY THE CITY OF VICTORVILLE ENGINEERING DEPARTMENT AT LEAST 1 WORKING DAY PRIOR TO NECESSARY INSPECTIONS AT (760) 955-5158. A RE-INSPECTION FEE WILL BE RENDERED ON EACH OCCASION WHEN THE CONTRACTOR IS NOT READY FOR THE INSPECTION AT THE SCHEDULED TIME. NO FURTHER INSPECTIONS WILL BE PERFORMED UNTIL SAID RE-INSPECTION FEE IS PAID.
6. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT 2 WORKING DAYS IN ADVANCE OF EXCAVATION AT 1-800-422-4133 FOR EXACT UTILITY LOCATIONS.
7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSELF/HERSELF WITH SITE CONDITIONS AND OF ANY UNDERGROUND UTILITIES SHOWN OR NOT SHOWN ON THESE PLANS.
8. EXISTING UTILITIES SHALL BE MAINTAINED IN OPERATION DURING CONSTRUCTION.
9. ALL PIPELINES, SUBSTRUCTURES, OR UTILITIES OF ANY KIND, WHETHER SHOWN ON THESE PLANS OR NOT, SHALL BE PROTECTED IN PLACE OR, IF REQUIRED, BE REMOVED, RELOCATED, OR REINFORCED TO THE SATISFACTION OF THE CITY ENGINEER AND THE COMPANY OWNING THE FACILITY AT THE EXPENSE OF THE CONTRACTOR.
10. ANY RELOCATION OF EXISTING MAIL BOXES, POWER POLES, STREET LIGHTS, FIRE HYDRANTS, SIGN POSTS, TELEPHONE PEDESTALS, ETC., SHALL BE RELOCATED OR REMOVED AND REINSTALLED BY AND AT THE EXPENSE OF THE CONTRACTOR.
11. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT SURVEYING MONUMENTS IN PLACE AND THE CONTRACTOR SHALL BE FINANCIALLY RESPONSIBLE FOR RESETTING DAMAGED OR DESTROYED MONUMENTS.
12. JOSHUA TREES SHALL BE PROTECTED IN PLACE OR RELOCATED AS APPROVED BY THE PARKS DIVISION OF THE CITY OF VICTORVILLE DEPARTMENT OF COMMUNITY SERVICES AT THE CONTRACTOR'S EXPENSE.
13. ADEQUATE STAKES, AS DETERMINED BY THE CITY ENGINEER, ENABLING THE CONTRACTOR TO CONSTRUCT THE WORK TO PLAN AND GRADE SHALL BE SET BY THE DIRECTION OF THE CONTRACTOR'S LICENSED ENGINEER OR SURVEYOR.
14. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE DESIGNING ENGINEER AND THE CITY OF VICTORVILLE ENGINEER.
15. CONTRACTOR WILL BE SUPPLIED WITH ONE (1) SET OF CONTRACT DRAWINGS TO BE USED FOR AS-BUILT DRAWINGS. THE CONTRACTOR SHALL UPDATE THE AS-BUILT DRAWINGS DAILY. THE CONTRACTOR SHALL MAKE THE AS-BUILT DRAWINGS AVAILABLE TO THE OWNER, ENGINEER, OR INSPECTOR UPON REQUEST. THE AS-BUILT DRAWINGS SHALL INCLUDE THE STATIONS OF ALL WYES, TEES, AND LATERAL STUBS.
16. ALL EXCAVATIONS SHALL BE BACKFILLED AT THE END OF EACH WORKING DAY AND ROADS MADE SAFE AND OPEN TO VEHICULAR TRAFFIC.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TESTING REQUIRED BY THE CITY'S INSPECTOR AND TRENCH BACKFILL COMPACTION TESTING. A CERTIFICATION OF COMPACTION SIGNED BY A REGISTERED ENGINEER SHALL BE SUBMITTED FOR ALL TRENCH BACKFILLS.
18. STATIONS SHOWN ON PROFILE ARE ON CENTERLINE OF THE CONDUIT, UNLESS OTHERWISE INDICATED.
19. MANHOLE RIM ELEVATIONS SHALL BE STAKED IN THE FIELD AT TIME OF CONSTRUCTION.
20. INSTALL HOLD-DOWN BOLTS ON ALL MANHOLE COVERS.
21. ALL SEWER PIPE SHALL BE VITRIFIED CLAY PIPE WITH MECHANICAL COMPRESSION JOINTS OR P.V.C. PIPE CONFORMING TO THE REQUIREMENTS OF A.S.T.M. D-3034 (SDR 35). THE I.D. SHALL NOT DEFLECT MORE THAN 5%. PIPE SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. GRANULAR BEDDING SHALL BE INSTALLED PER CITY STANDARD SS-05.
22. SEWER PIPE LINES SHALL BE TESTED PRIOR TO MAKING PERMANENT SERVICE CONNECTIONS.
23. THE CONTRACTOR SHALL MARK THE CURB WHERE THE SEWER LATERAL CROSSES THE CURB AND GUTTER WITH A "+S".
24. ALL SEWERS TO BE INSTALLED PER CITY STANDARD NUMBER SS-05.

GENERAL NOTES:

1. ALL IMPROVEMENTS SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE FOLLOWING: CITY OF VICTORVILLE/SAN BERNARDINO COUNTY STANDARD SPECIFICATIONS AND ALL AMENDMENTS TO DATE, CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (CALTRANS, MOST RECENT EDITION), WHERE APPLICABLE. ALL WORK SHALL BE UNDER THE INSPECTION OF THE RESPECTIVE ENTITY.
2. IT IS INTENDED THAT THESE PLANS AND SPECIFICATIONS REQUIRE ALL LABOR AND MATERIALS NECESSARY AND PROPER FOR THE WORK CONTEMPLATED AND THAT THE WORK BE COMPLETED IN ACCORDANCE WITH THEIR TRUE INTENT AND PURPOSE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY REGARDING ANY DISCREPANCIES AND AMBIGUITIES WHICH MAY EXIST IN THE PLANS AND SPECIFICATIONS. IF THE PLANS OR SPECIFICATIONS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE FIRST QUALITY ARE TO BE USED.
3. CONSTRUCTION STAKING FOR GRADING, CURB, GUTTER, SIDEWALK, SANITARY SEWER, STORM DRAIN AND WATER SHALL BE DONE UNDER THE DIRECTION OF M.C.R. ENGINEERING. THE CONTRACTOR SHALL NOTIFY THE ENGINEER SEVENTY-TWO (72) HOURS IN ADVANCE OF THIS NEED FOR STAKING. ANY STAKING REQUESTED BY THE CONTRACTOR OR HIS SUBCONTRACTORS THAT IS ABOVE AND BEYOND NORMAL STANDARD SUBDIVISION STAKING NEEDS, WILL BE SUBJECT TO AN EXTRA BACK CHARGE TO THE CONTRACTOR.
4. THE CONTRACTOR SHALL EXERCISE DUE CAUTION AND SHALL CAREFULLY PRESERVE BENCH MARKS, REFERENCE POINTS AND ALL SURVEY STAKES, AND SHALL BEAR ALL EXPENSE FOR REPLACEMENT AND/OR ERRORS CAUSED BY THEIR UNNECESSARY LOSS OR DISTURBANCE.
5. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER, GENERAL CONTRACTOR, ENGINEER AND THE COUNTY HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
6. UNLESS OTHERWISE STATED, ALL STATIONS INDICATED ON THE IMPROVEMENT PLANS ARE REFERENCED TO THE CENTERLINE OF THE STREET. ALL STATIONS OFF CENTER ARE PERPENDICULAR TO OR RADIALLY OPPOSITE CENTERLINE STATIONS, UNLESS OTHERWISE NOTED.
7. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE COUNTY ENGINEER.
8. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG MAN OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY IN ACCORDANCE WITH THE CURRENT ISSUE OF "MANUAL OF TRAFFIC CONTROLS, WARNING SIGNS, LIGHTS AND DEVICES FOR USE IN PERFORMANCE OF WORK UPON HIGHWAY" PUBLISHED BY THE STATE OF CALIFORNIA BUSINESS AND TRANSPORTATION AGENCY.
9. THE OFFICE OF THE COUNTY ENGINEER SHALL BE NOTIFIED AT LEAST 24 HOURS IN ADVANCE OF ANY WORK.
10. P.G.& E., TELEPHONE, CABLE TV, SEWER, AND WATER UNDERGROUND WORK SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF THE CURB, GUTTER, SIDEWALK AND PAVING.
11. THE CITY OF VICTORVILLE, SAN BERNARDINO COUNTY, OR ASSOCIATED UTILITY COMPANY AND RESIDENCES TO BE AFFECTED SHALL BE NOTIFIED IMMEDIATELY UPON ANY UTILITY SERVICE DISRUPTION OTHER THAN SPECIFIED ON THESE IMPROVEMENT PLANS AND A 24 HOUR NOTICE SHALL BE GIVEN FOR ANY PLANNED DISRUPTION.
12. THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FROM ANY APPLICABLE AGENCIES PRIOR TO COMMENCEMENT OF WORK WITHIN EXISTING COUNTY RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND LICENSES REQUIRED FOR THE CONSTRUCTION AND COMPLETION OF THE PROJECT.
13. STREET SIGNS, TRAFFIC CONTROL SIGNS, AND PAVEMENT MARKINGS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT LOCATIONS ESTABLISHED BY THE ENGINEER.
14. ASPHALT CONCRETE SHALL BE PLACED ONLY WHEN THE ATMOSPHERIC TEMPERATURE IS ABOVE 50°F.
15. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THE REMOVAL OR RELOCATION OF ALL EXISTING UTILITIES WITH RESPECTIVE UTILITY COMPANIES.
16. DRIVEWAYS ON STREETS TO BE LOCATED IN THE FIELD BY THE ENGINEER AT THE TIME OF CONSTRUCTION. DRIVEWAYS SHALL NOT COINCIDE WITH WHEELCHAIR RAMPS.
17. PRIOR TO COMMENCING ANY WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE EACH UTILITY COMPANY LOCATE, IN THE FIELD, THEIR MAIN AND SERVICE LINES. THE CONTRACTOR SHALL NOTIFY MEMBERS OF THE UNDERGROUND SERVICE ALERT (U.S.A.) 48 HOURS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING THE TOLL-FREE NUMBER (800) 642-2444. THE CONTRACTOR SHALL RECORD THE U.S.A. ORDER NUMBER AND FURNISH ORDER NUMBER TO OWNER PRIOR TO ANY EXCAVATION. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES SO THAT NO DAMAGE RESULTS TO THEM DURING THE PERFORMANCE OF THIS CONTRACT. ANY REPAIRS NECESSARY TO DAMAGED UTILITIES SHALL BE PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL BE REQUIRED TO COOPERATE WITH OTHER CONTRACTORS AND UTILITY COMPANIES INSTALLING NEW STRUCTURES, UTILITIES AND SERVICE TO THE DEVELOPMENT.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING IMPROVEMENTS FROM DAMAGE. COST OF REPLACING EXISTING IMPROVEMENTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEMS REQUIRING REMOVAL AND REPLACEMENT OF EXISTING IMPROVEMENTS.
19. WHENEVER PAVEMENT IS BROKEN OR CUT IN THE INSTALLATION OF THE WORK COVERED BY THESE SPECIFICATIONS, THE PAVEMENT SHALL BE REPLACED, AFTER PROPER BACKFILLING, WITH PAVEMENT MATERIALS EQUAL TO OR BETTER THAN THE MATERIALS USED IN THE ORIGINAL PAVING. THE FINISHED PAVEMENT SHALL BE SUBJECT TO THE APPROVAL OF THE COUNTY ENGINEER, OR CALTRANS, WHERE APPLICABLE.
20. PAYMENT FOR PAVEMENT WILL BE MADE ONLY FOR AREAS SHOWN ON THE PLANS REPLACEMENT OF PAVEMENT WHICH IS BROKEN OR CUT DURING THE INSTALLATION OF THE WORK COVERED BY THESE SPECIFICATIONS, AND WHICH LIES OUTSIDE OF SAID AREAS, SHALL BE INDICATED IN THE CONTRACTOR'S UNIT PRICE FOR PAVEMENT, AND NO ADDITIONAL PAYMENT SHALL BE MADE FOR SUCH WORK.
21. EXCAVATIONS OF 5 FEET OR MORE IN DEPTH WILL REQUIRE AN EXCAVATION PERMIT FROM THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL SAFETY. FOR TRENCHES 5 FEET OF MORE IN DEPTH, THE CONTRACTOR SHALL COMPLY WITH SECTION 5-1.02A OF THE CALTRANS STANDARDS, CHAPTER 9 OF THE STATE OF CALIFORNIA LABOR CODE, AND ANY LOCAL CODES OR ORDINANCES.
22. WE CALL YOUR ATTENTION TO TITLE 8 CALIFORNIA ADMINISTRATION CODE SECTION 1540 (A) (1) OF THE CONSTRUCTION SAFETY ORDERS ISSUED BY THE OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD PURSUANT TO THE CALIFORNIA OCCUPATIONS SAFETY AND HEALTH ACT OF 1973 AS AMENDED WHICH STATES: (1) PRIOR TO OPENING AN EXCAVATION EFFORT SHALL BE MADE TO DETERMINE WHETHER UNDERGROUND INSTALLATIONS; I.E. SEWER, WATER, FUEL, ELECTRICAL LINES, ETC., WILL BE ENCOUNTERED AND IF SO, WHERE SUCH UNDERGROUND INSTALLATIONS ARE LOCATED. WHEN THE EXCAVATION APPROACHES THE APPROXIMATE LOCATION OF SUCH INSTALLATION, THE EXACT LOCATION SHALL BE DETERMINED BY CAREFUL PROBING OR HAND DIGGING; AND, WHEN IT IS UNCOVERED, ADEQUATE PROTECTION SHALL BE PROVIDED FOR THE EXISTING INSTALLATION. ALL KNOWN OWNERS OF UNDERGROUND FACILITIES IN THE AREA CONCERNED SHALL BE ADVISED OF PROPOSED WORK AT LEAST 48 HOURS PRIOR TO THE START OF ACTUAL EXCAVATION.
23. ALL TRENCHES ON MAJOR AND COLLECTOR STREETS AND CROSS TRENCHES ON ALL STREETS SHALL BE PAVED WITH TEMPORARY PAVING THE SAME DAY THE PAVEMENT CUT IS MADE.
24. APPROPRIATE DUST CONTROL SHALL BE PROVIDED, AT THE CONTRACTOR'S EXPENSE TO MINIMIZE ANY DUST NUISANCE AND SHALL BE IN ACCORDANCE WITH SECTION 10 OF CALTRANS STANDARD SPECIFICATIONS AND THE REQUIREMENTS OF THE LOCAL JURISDICTION.
25. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER, PRIOR TO FINAL ACCEPTANCE, AS-BUILT DRAWINGS OF ALL IMPROVEMENTS REPRESENTED BY THE PROJECT PLANS AND SPECIFICATIONS.
26. AFTER CONSTRUCTION OF ALL IMPROVEMENTS, THE ENGINEER SHALL SUBMIT ONE SET OF REPRODUCIBLE PLANS. FINAL INVERT ELEVATIONS FOR SEWER AND STORM DRAIN LINES THAT ARE TO BE EXTENDED FOR FUTURE CONSTRUCTION SHALL ALSO BE SHOWN ON THE "AS-BUILT" PLANS ALL AS PROVIDED TO THE ENGINEER BY THE CONTRACTOR.
27. THE CONTRACTOR SHALL NOTIFY M.C.R. ENGINEERING AT LEAST 48 HOURS PRIOR TO BACKFILLING OF ANY PIPE WHICH STUBS TO A FUTURE PHASE OF CONSTRUCTION FOR INVERT VERIFICATION. TOLERANCE SHALL BE IN ACCORDANCE WITH THE LOCAL STANDARD SPECIFICATIONS.
28. CONTRACTOR SHALL PROVIDE THE OWNER WITH A CERTIFICATE SIGNED BY A REGISTERED CIVIL ENGINEER STATING THAT ALL BUILDING PAD ELEVATIONS ARE IN ACCORDANCE WITH THE APPROVED GRADING PLAN.
29. STORM DRAIN NPDES PERMIT

(A) TO COMPLY WITH THE STATE OF CALIFORNIA'S STATEWIDE GENERAL NPDES PERMIT, REGULATING DISCHARGES OF STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM SOIL DISTURBANCES OF ONE (1) ACRE OR MORE, A NOTICE OF INTENT (NOI) TO COMPLY WITH THE TERMS OF THE GENERAL PERMIT TO DISCHARGE STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITY MUST BE FILED AND THE APPROPRIATE FEE PAID PRIOR TO COMMENCEMENT OF CONSTRUCTION. IN ADDITION, AT THE CONCLUSION OF THE PROJECT A NOTICE OF TERMINATION (NOT) MUST ALSO BE FILED. SUBMIT THE FEE, NOI, AND NOT TO THE STATE WATER RESOURCES CONTROL BOARD AT THE FOLLOWING ADDRESS:

STATE WATER RESOURCES CONTROL BOARD

DIVISION OF WATER QUALITY

ATT: STORM WATER PERMIT UNIT

P.O. BOX 1977 SACRAMENTO, CA 5812-1977

IF YOU HAVE ANY QUESTIONES CALL THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, AT (916) 255-3028.

(B) PRIOR TO THE ISSUANCE OF A ENCROACHMENT PERMIT, A WASTE DISCHARGE IDENTIFICATION NUMBER (WDID) SHALL BE OBTAINED.

STORM DRAIN NOTES:

1. ALL STORM DRAIN CONSTRUCTION AND MATERIALS, SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL JURISDICTION'S PUBLIC WORKS DEPARTMENT STANDARD PLANS AND SPECIFICATIONS AND THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
2. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG MEN OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY.
3. THE CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, SLOPING OR OTHER PROVISIONS NECESSARY TO PROTECT WORKMAN FOR ALL AREAS TO BE EXCAVATED TO A DEPTH OF 5 FEET OR MORE. SAID PROTECTION TO BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL JURISDICTION'S DEPARTMENT OF PUBLIC WORKS, AND STATE REGULATIONS.
4. ALL MANHOLE RIMS TO BE ADJUSTED TO FINISH GRADE AFTER STREET PAVING, UNLESS OTHERWISE NOTED. COST FOR RAISING FACILITIES TO BE INCLUDED IN UNIT PRICES FOR MANHOLES.
5. THE CONTRACTOR SHALL EXPOSE ALL EXISTING STORM DRAIN PIPES, WHERE A CONNECTION IS TO BE MADE, AND NOTIFY THE ENGINEER IF THERE IS A DISCREPANCY BETWEEN THE SIGNED PLANS AND THE EXISTING FIELD CONDITION PRIOR TO THE START OF CONSTRUCTION.
6. CONTRACTOR TO BE RESPONSIBLE FOR ALL TESTING OF STORM DRAIN FACILITIES IN ACCORDANCE WITH THE LOCAL JURISDICTION'S STANDARD SPECIFICATION AND PLANS.
7. ALL STORM DRAIN LINES SHALL BE CLEANED OF ALL SAND AND DEBRIS PRIOR TO ACCEPTANCE BY THE LOCAL JURSDICTION.

SANITARY SEWER NOTES:

1. ALL SANITARY SEWER CONSTRUCTION, MATERIALS, AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL JURISDICTION'S STANDARD SPECIFICATIONS AND PLANS.
2. THE CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, SLOPING OR OTHER PROVISIONS NECESSARY TO PROTECT WORKMEN FOR ALL AREAS TO BE EXCAVATED TO A DEPTH OF 5' OR MORE. SAID PROTECTION TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL JURISDICTION'S DEPARTMENT OF PUBLIC WORKS, AND STATE REGULATIONS.
3. THE CONTRACTOR SHALL EXPOSE ALL EXISTING SANITARY SEWER PIPES WHERE CONNECTION IS TO BE MADE, SO THAT THE ENGINEER CAN VERIFY EXISTING FLOW LINES AND LOCATIONS BEFORE START OF CONSTRUCTION.
4. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG MEN, OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY. MANHOLE CASTINGS AND COVERS SHALL BE ADJUSTED TO FINISH GRADES BY THE PAVING CONTRACTOR AFTER STREET IMPROVEMENTS ARE COMPLETED COST FOR ADJUSTING FACILITIES TO BE INCLUDED IN THE UNIT PRICE FOR MANHOLES AND CLEANOUTS.

WATER NOTES:

1. ALL WATER CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL JURISDICTION'S SPECIFICATIONS AND PLANS.
2. CONTRACTOR SHALL EXPOSE EXISTING WATER LINES TO VERIFY EXISTING ELEVATION AND LOCATION PRIOR TO START OF CONSTRUCTION.
3. ALL WATER LINES SHALL BE TESTED AND DISINFECTED IN CONFORMANCE WITH THE REQUIREMENTS OF THE LOCAL JURISDICTION UPON COMPLETION OF COMPACTION AND PRIOR TO THE PLACEMENT OF ASPHALT CONCRETE. THE INITIAL TEST(S) SHALL BE PAID FOR BY THE CITY/COUNTY. ALL TESTING NECESSITATED BY THE FAILURE OF THE INITIAL TEST(S) SHALL BE PAID FOR BY THE CONTRACTOR.
4. CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG MEN, OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY.
5. ALL VALVE BOXES TO BE ADJUSTED TO FINISH GRADE AFTER STREET PAVING. COST FOR RAISING FACILITIES TO BE INCLUDED IN UNIT PRICES FOR VALVES.
6. THE CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, SLOPING OR OTHER PROVISIONS NECESSARY TO PROTECT WORKMEN FOR ALL AREAS TO BE EXCAVATED TO A DEPTH OF 5' OR MORE. SAID PROTECTION TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL JURISDICTION, AND STATE REGULATIONS.
7. ALL CONNECTIONS TO EXISTING CITY FACILITIES SHALL BE MADE IN THE PRESENCE OF THE CITY ENGINEER, OR HIS APPOINTED REPRESENTATIVE.

GRADING NOTES:

1. THE CONTRACTOR SHALL REVIEW SITE PRIOR TO BIDDING. ALL VEGETATION AND DELETERIOUS MATERIALS SHALL BE REMOVED FROM THE SITE AT THE EXPENSE OF THE CONTRACTOR AND SHALL BE INCLUDED IN THE LUMP SUM CLEARING COST.
2. THE CONTRACTOR SHALL PRESERVE ALL STAKES AND POINTS SET FOR LINES, GRADES OR MEASUREMENT OF THE WORK IN THEIR PROPER PLACES UNTIL AUTHORIZED TO REMOVE THEM BY THE ENGINEER. ALL EXPENSES INCURRED IN REPLACING STAKES THAT HAVE BEEN REMOVED WITHOUT PROPER AUTHORITY SHALL BE PAID FOR BY THE GENERAL CONTRACTOR.
3. EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LOCAL AGENCY STANDARDS AND THE PROJECT SOILS REPORT BY SOIL EXPLORATION COMPANY INC. DATED 6/4/2018. ALL FILL AREAS SHALL BE TESTED AS REQUIRED BY THE LOCAL AGENCY, AND SHALL BE PAID FOR BY THE CONTRACTOR.

(C.O.V.) WATER GENERAL NOTES

STANDARDS AND SPECIFICATIONS

1. CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE OF CALIFORNIA AND LOCAL REGULATIONS, INCLUDING SAFETY REGULATIONS.
2. ALL WORK AND MATERIAL SHALL CONFORM TO THE HIGHER STANDARD IN THE LATEST EDITION OF EITHER VICTORVILLE WATER DISTRICT'S (HEREAFTER REFERRED TO AS "THE CITY") GENERAL NOTES OR STANDARD DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR SECURING COPIES OF THE CITY'S LATEST WATER GENERAL NOTES AND STANDARD DRAWINGS PRIOR TO START OF CONSTRUCTION.
3. ANY CONSTRUCTION AND/OR MATERIALS NOT COVERED IN THE CITY'S WATER NOTES AND STANDARDS ARE SUBJECT TO APPROVAL BY THE CITY.
4. ALL MATERIALS, TESTING AND INSPECTION OF PIPE SHALL BE IN CONFORMITY WITH THE REQUIREMENTS OF THE CITY'S WATER STANDARDS AND AMERICAN WATER WORKS ASSOCIATION STANDARDS. FAILURE TO MEET ANY OF THESE SPECIFICATIONS WILL BE CAUSE FOR REJECTION.

CONTRACTOR RESPONSIBILITIES

5. THE CONTRACTOR SHALL HAVE A CURRENT CALIFORNIA CLASS A AND/OR C34 PIPELINE CONTRACTORS LICENSE.
6. THE CONTRACTOR SHALL VERIFY THE ELEVATIONS OF ALL EXISTING WATER MAINS AT POINTS OF CONNECTION AND CROSSINGS PRIOR TO ANY CONSTRUCTION OF FACILITIES. ANY NECESSARY CHANGES OF WATER LINE DEPTH OR ALIGNMENT DURING CONSTRUCTION SHALL BE IMMEDIATELY REPORTED TO THE CITY FOR REVIEW AND APPROVAL PRIOR TO CONTINUANCE OF CONSTRUCTION.
7. APPROVAL OF THESE PLANS BY THE CITY DOES NOT GUARANTEE THE ACCURACY OR EXISTENCE OF ANY EXISTING UNDERGROUND FACILITIES, WHETHER OR NOT SAID FACILITIES ARE SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR LOCATING AND PROTECTING FROM DAMAGE ALL EXISTING UTILITIES AND IMPROVEMENTS WHETHER OR NOT SHOWN ON THESE PLANS. ANY CONTRACTOR PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE THEIR SELF WITH THE SITE AND SHALL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY, OR INDIRECTLY, FROM THEIR OPERATIONS, WHETHER OR NOT SAID FACILITIES ARE SHOWN ON THESE PLANS.
8. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING IN PLACE ALL SURVEY MONUMENTS; ANY SURVEY MONUMENTS DISTURBED DURING THE COURSE OF CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
9. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE CITY HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONJUNCTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.

PERMITS & NOTICES

10. THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN THE NECESSARY PERMITS FROM THE CITY AND APPROPRIATE LOCAL AGENCIES PRIOR TO ANY CONSTRUCTION WITHIN ANY STREET, RIGHT-OF-WAY, OR EASEMENT. NO WORK SHALL BE PERFORMED ON THE WATER SYSTEM UNTIL A WATER INSPECTION PERMIT HAS BEEN ISSUED AND THE CITY HAS RECEIVED COPIES OF THE CONSTRUCTION DRAWINGS. AN APPROVED SET OF PLANS SHALL BE AVAILABLE ON-SITE AT ALL TIMES DURING CONSTRUCTION.
11. THE CONTRACTOR MUST NOTIFY THE CITY AT LEAST ONE (1) WEEK PRIOR TO BEGINNING WORK.
12. THE CONTRACTOR SHALL NOTIFY THE CITY AT LEAST FOUR (4) WORKING DAYS PRIOR TO ANY TIE-INS TO EXISTING WATERLINES. ALL TIE-INS MUST BE WITNESSED AND APPROVED BY THE PUBLIC WORKS INSPECTOR.
13. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (1-800-422-4133) AT LEAST TWO WORKING DAYS (48 HOURS) PRIOR TO ANY EXCAVATION.
14. THE CONTRACTOR SHALL GIVE AT LEAST TWO (2) WORKING DAYS (48 HOURS) NOTICE FOR INSPECTION REQUESTS.

GENERAL CONSTRUCTION REQUIREMENTS

15. CURB AND GUTTER SHALL BE PLACED PRIOR TO THE INSTALLATION OF THE WATER MAIN, SERVICE LINES, METERS AND FIRE SERVICES.
16. ALL WORK SHALL BE INSPECTED BY CITY PUBLIC WORKS, OR IT'S DULY AUTHORIZED AGENT. CONTRACTOR SHALL NOT BACKFILL TRENCH UNTIL ALL OF THE FITTINGS AND PIPES HAVE PASSED INSPECTION BY THE CITY.
17. WHEN A CONSTRUCTION CONFLICT ARISES, THE AFFECTED PORTION WILL BE PUT ON HOLD UNTIL A RESOLUTION IS REACHED BETWEEN THE CITY AND THE OWNER. THE CONTRACTOR MUST OBTAIN AUTHORIZATION FROM CITY ENGINEERING PRIOR TO ANY FIELD CHANGES. THE CITY RESERVES THE RIGHT TO RELOCATE PORTIONS OF THE PROPOSED WORK IN ORDER TO AVOID EXISTING UTILITIES, AT NO EXPENSE TO THE CITY.
18. CONCRETE STABILIZING BLOCKS SHALL BE PROVIDED AT FIRE HYDRANT RISERS, VAULT OUTLETS, AND HOT TAPS LARGER THAN 4-INCHES. A POLYETHYLENE BOND BREAKER SHALL BE USED BETWEEN CONCRETE AND ANY WATER FACILITIES.
19. ADDITIONAL VALVES, HYDRANTS, AIR-VACS, BLOW-OFFS, AND RESTRAINED JOINTS MAY BE REQUIRED AT ANY DEAD END LINES RESULTING FROM PHASE BREAKS, WHETHER MARKED ON PLANS OR NOT. INSTALLATION AND MATERIALS REQUIRED FOR PHASE BREAKS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE SUBJECT TO APPROVAL BY THE PUBLIC WORKS INSPECTOR.
20. BACKFILL, COMPACTION AND RE-SURFACING IN EXISTING STREETS SHALL CONFORM TO REQUIREMENTS OF LATEST CITY OR COUNTY PERMIT SPECIFICATIONS.
21. ANY EXISTING AIR VACS, FIRE HYDRANTS, VALVE CANS, ETC. AFFECTED BY THE PROJECT MUST BE ADJUSTED BY THE CONTRACTOR IN ELEVATION AND/OR LOCATION AS DIRECTED BY PUBLIC WORKS INSPECTOR.
22. THE CONTRACTOR SHALL REPLACE IN KIND, ANY PAVING, CURB AND GUTTER, OR OTHER IMPROVEMENTS CUT, REMOVED OR DAMAGED BY THIS PROJECT.
23. ALL WATER FACILITIES TO BE REMOVED AND SALVAGED ARE TO BE RETURNED TO THE CITY WATER YARD, IF REQUESTED BY PUBLIC WORKS INSPECTOR.

WATER MAIN & VALVES

24. STANDARD WATER MAIN LOCATION IS 5 TO 7 FEET FROM CURB FACE; OTHER LOCATIONS MUST BE APPROVED BY THE CITY.
25. WATER MAINS SHALL BE 8-INCH DIAMETER MINIMUM OR AS SHOWN ON THE DRAWINGS.
26. WATER MAIN SHALL BE INSTALLED TO THE GRADES SHOWN ON THE DRAWINGS, WITH A MINIMUM OF 36" OF COVER FROM TOP OF PIPE TO FINAL GRADE.
27. MAIN LINE VALVE SIZES 6-IN TO 10-IN SHALL BE GATE VALVES AND VALVES 12-INCH AND LARGER SHALL BE BUTTERFLY VALVES, WITH THE EXCEPTION OF TAPPING VALVES. BUTTERFLY VALVES MUST HAVE FLANGE X FLANGE OUTLETS. ALL VALVES SHALL BE FLANGED DIRECTLY TO A FITTING.
28. ALL VALVES INSTALLED BY THE CONTRACTOR SHALL BE ACCESSIBLE FOR OPERATION COMPLETE WITH VALVE CAN TO FINISHED GRADE DIRECTLY FOLLOWING CONNECTIONS TO EXISTING WATER SYSTEM. ALL VALVE OPERATIONS DEEPER THAN 6 FEET SHALL HAVE POWDER COATED STEEL OPERATOR EXTENSIONS TO RAISE THE OPERATOR TO A DEPTH OF 3 FEET BELOW GROUND SURFACE. THE CONTRACTOR SHALL ADJUST ALL VALVE COVERS TO GRADE BEFORE FINAL PAVING.
29. THE CONTRACTOR SHALL INSTALL PIPE AND FITTINGS WITH RESTRAINED JOINTS AT CHANGES OF DIRECTION AND GRADE WHETHER OR NOT SHOWN ON THE PLANS. RESTRAINED JOINT CALCULATIONS SHALL BE PERFORMED BY THE ENGINEER USING THESE PARAMETERS AS A MINIMUM: SOIL TYPE SM; SAFETY FACTOR 1.5 TO 1; TYPE 5 TRENCH; 3.5 FT DEPTH OF COVER UNLESS OTHERWISE SHOWN ON THE PLANS; 225 PSI TEST PRESSURE. RESTRAINTS ARE ALSO REQUIRED ON CURVES WITH A RADIUS LESS THAN 380 FEET.
30. PIPE DELIVERED TO THE SITE SHALL BE PROTECTED BY THE CONTRACTOR FROM DUST OR OTHER CONTAMINATION PRIOR TO PLACING IN TRENCH; PIPE ENDS SHALL BE COVERED OR PLUGGED AT ALL TIMES. AT THE END OF EACH DAY'S WORK, THE CONTRACTOR SHALL ENSURE THAT ALL OPENINGS INTO THE PIPELINE ARE SECURELY PLUGGED AND STOPPED.
31. PIPE SHALL BE HANDLED SO AS TO PROTECT PIPE JOINTS, LINING AND COATING, AND CAREFULLY BEDDED TO PROVIDE CONTINUOUS BEARING AND PREVENT SETTLEMENT. PIPE SHALL BE PROTECTED AGAINST FLOATATION AT ALL TIMES.
32. PIPE JOINTS SHALL NOT BE DEFLECTED AT AN ANGLE GREATER THAN THE MAXIMUM ANGLE RECOMMENDED BY THE PIPE MANUFACTURER. MINIMUM PIPE SEGMENT LENGTH FOR C-900 SHALL BE 3-FEET OR AS RECOMMENDED BY MANUFACTURER.
33. IMPORTED SAND (100 PERCENT #30 SAND OR BETTER) SHALL BE USED FOR PIPE BEDDING (MINIMUM OF 6-INCHES DEEP) AND BACKFILL TO A DEPTH OF 12-INCHES ABOVE PIPE. BEDDING MUST BE INSPECTED BY PUBLIC WORKS INSPECTOR BEFORE PIPE IS INSTALLED.
34. NO PIPELINE SHALL BE INSTALLED ON FILL MATERIAL WITHOUT FIRST MEETING IN-PLACE DENSITY TESTS, IF REQUIRED BY PUBLIC WORKS INSPECTOR. COMPACTION IN INTERMEDIATE ZONE SHALL BE COMPACTED TO 90% RELATIVE COMPACTION.
35. PROVIDE A MINIMUM OF 10 FEET HORIZONTAL SEPARATION AND 4-INCH VERTICAL SEPARATION BETWEEN WATER AND SEWER OR STORM DRAIN MAINS AND LATERALS. WHEN A WATERLINE CROSSES UNDER A SEWER OR STORM DRAIN, THE CITY REQUIRES SPECIAL CONSTRUCTION; SEE STANDARD DRAWINGS FOR UNDERCROSSINGS. HORIZONTAL SEPARATION LESS THAN 10-FEET MUST BE APPROVED BY THE CITY.
36. INSULATED COPPER WIRE IS TO BE LAID ON TOP OF ALL PIPE WITH CONDUCTING CONNECTIONS TO ALL ABOVE GROUND FACILITIES AND SECURED TO THE WATER MAIN AT 6 FOOT INTERVALS. 3-INCH WIDE WATER ALARM TAPE SHALL BE INSTALLED 1-FOOT ABOVE PIPE.
37. ALL BELOW GROUND NUTS AND BOLTS SHALL HAVE A BITUMINOUS COATING APPLIED TO INHIBIT MATERIAL CORROSION.

FIRE HYDRANTS & AIR VACS

38. FIRE HYDRANTS SHALL BE SPACED AT APPROXIMATELY 300 FEET APART OR AS APPROVED BY THE FIRE DEPARTMENT. HYDRANTS SHALL BE PLACED A MINIMUM OF 5 FEET FROM ANY OBSTRUCTION. CENTER OF HYDRANT SHALL BE PLACED ON A LOT LINE WHEN POSSIBLE. ALL FIRE HYDRANT LOCATIONS MUST BE APPROVED BY THE GOVERNING FIRE DISTRICT.
39. FIRE HYDRANTS AT INTERSECTIONS SHALL BE LOCATED PER CITY OF VICTORVILLE STANDARD S-12.
40. A MAXIMUM OF ONE EXTENSION MAY BE USED TO ADJUST A FIRE HYDRANT TO PROPER ELEVATION.
41. ALL FIRE HYDRANTS TO BE BAGGED AT THE TIME OF INSTALLATION. BAG SHALL NOT BE REMOVED UNTIL INSTRUCTED BY PUBLIC WORKS INSPECTOR.
42. AN AIR RELEASE VALVE SHALL BE INSTALLED AT EVERY HIGH POINT IN THE SYSTEM, WHETHER OR NOT SHOWN ON THE PLANS.

SERVICES & METERS

43. ALL COMMERCIAL AND INDUSTRIAL WATER METER SERVICES 1-INCH AND LARGER SHALL HAVE A DEPARTMENT OF HEALTH SERVICES APPROVED REDUCED PRESSURE BACKFLOW ASSEMBLY INSTALLED AND TESTED PRIOR TO ACTIVATION OF WATER SERVICE.
44. ALL HOMES THAT REQUIRE FIRE SPRINKLERS SHALL HAVE A DEPARTMENT OF HEALTH SERVICES APPROVED REDUCED PRESSURE BACKFLOW ASSEMBLY INSTALLED AND TESTED PRIOR TO ACTIVATION OF WATER SERVICE.
45. METER BOXES SHALL BE LOCATED TO CLEAR DRIVEWAYS, WHETHER OR NOT SHOWN ON THE PLAN. SERVICE LOCATIONS SHALL BE COORDINATED WITH THE PUBLIC WORKS INSPECTOR. THE CONTRACTOR SHALL ADJUST METER BOXES TO SIDEWALK GRADE BEFORE SIDEWALKS ARE POURED.
46. METER BOXES LOCATED NEAR LIGHT POLES SHALL HAVE A FOUR (4) FOOT SEPARATION FROM LIGHT POLE TO ANGLE STOP.

TESTING & DISINFECTION

47. PRIOR TO THE ACTIVATION OF ANY NEWLY CONSTRUCTED WATER LINES, OR ANY CONNECTIONS TO EXISTING SYSTEMS, CONTRACTOR SHALL CHLORINATE BY GAS OR LIQUID INJECTION OF THE NEW PIPELINE TO 100 PPM. ALL CHLORINATION OF NEW WATER MAINS SHALL HOLD A MINIMUM OF 25 PPM FOR A 24-HOUR PERIOD. AFTER A 25 PPM RESIDUAL HAS BEEN MAINTAINED FOR 24 HOURS, THE CONTRACTOR SHALL FLUSH THE PIPELINE UNTIL A CHLORINE RESIDUAL BETWEEN 0.8 PPM AND 0.4 PPM IS OBTAINED. THE CHLORINE RESIDUAL CAN ONLY DROP A MINIMUM OF 0.2 PPM IN A 24 HOUR PERIOD, AND NEVER DROP BELOW 0.2 PPM. IF THE RESIDUAL IS NOT MAINTAINED, THE PIPELINE SHALL BE RE-FLUSHED AND SAMPLED AFTER AN ADDITIONAL 24 HOUR PERIOD. ONCE THIS REQUIREMENT IS MET, A BACTERIA SAMPLE MAY BE TAKEN. FLUSHING, DE-CHLORINATION AND TESTING SHALL BE COORDINATED WITH THE PUBLIC WORKS INSPECTOR. THE HYPER-CHLORINATED DISINFECTION WATER SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH CURRENT REGULATIONS.
48. WATER MAIN SHALL BE HYDRO-TESTED AT 225 P.S.I. FOR A MINIMUM OF 2 HOURS AT THE HIGHEST POINT IN THE PIPING SYSTEM. FOLLOWING THE HYDROSTATIC TEST, THE PIPE SHALL BE LEAK-TESTED AT 150 P.S.I. FOR A MINIMUM OF 2 HOURS. THERE SHALL BE ZERO PRESSURE LOSS DURING THE LEAK TEST. ALL TESTING SHALL BE VERIFIED BY THE PUBLIC WORKS INSPECTOR. THE USE OF BULK HEADS FOR TESTING MUST HAVE PRIOR APPROVAL OF THE CITY.

WATER ACTIVATION

49. WATER WILL NOT BE TURNED ON TO THE PROJECT UNTIL ALL WORK IS COMPLETE AND APPROVED BY THE PUBLIC WORKS INSPECTOR AND ALL FINANCIAL PAPERWORK HAS BEEN SUBMITTED.
50. PRIOR TO INSTALLATION OF WATER METERS, THE CONTRACTOR MUST COMPLETE PUNCH LIST ITEMS FOR THE ENTIRE JOB, OBTAIN A WILL SERVE LETTER (ALLOW 3 WEEKS FOR APPROVAL), AND PAY CONNECTION FEES FOR THE DESIRED METERS. ALLOW 2 WEEKS FOR METER INSTALLATION ON AN EXISTING SERVICE; ALLOW 6 WEEKS FOR INSTALLATION OF A METER AND SERVICE LINE.
51. PRIOR TO METER INSTALLATION, THE CONTRACTOR SHALL ALSO RETURN A LEGIBLE AND CLEAN SET OF "AS-BUILT" DRAWINGS TO THE CITY.

STORM DRAIN IMPROVEMENTS GENERAL NOTES (MINIMUM)

1. UNLESS OTHERWISE NOTED, ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THE LATEST REVISION OF THE CITY OF VICTORVILLE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, AND STANDARD DRAWINGS ON FILE WITH THE CITY OF VICTORVILLE.
2. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUALLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER, THE ENGINEER, AND THE CITY HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY PERMITS REQUIRED BY THE CITY OF VICTORVILLE ENGINEERING DEPARTMENT IN ORDER TO DO THE WORK SHOWN ON THESE PLANS.
4. THE CONTRACTOR SHALL GIVE THE CITY OF VICTORVILLE ENGINEERING DEPARTMENT (760) 955-5158 AT LEAST 2 WORKING DAYS NOTICE TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE INSPECTOR PRIOR TO START OF WORK.
5. THE CONTRACTOR SHALL NOTIFY THE CITY OF VICTORVILLE ENGINEERING DEPARTMENT AT LEAST 1 WORKING DAY PRIOR TO NECESSARY INSPECTIONS AT. A RE-INSPECTION FEE WILL BE RENDERED ON EACH OCCASION WHEN THE CONTRACTOR IS NOT READY FOR THE INSPECTION AT THE SCHEDULED TIME. NO FURTHER INSPECTIONS WILL BE PERFORMED UNTIL SAID RE-INSPECTION FEE IS PAID.
6. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT 2 WORKING DAYS IN ADVANCE OF EXCAVATION AT 1-800-422-4133 FOR EXACT UTILITY LOCATIONS.
7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSELF/HERSELF WITH SITE CONDITIONS AND OF ANY UNDERGROUND UTILITIES SHOWN OR NOT SHOWN ON THESE PLANS
8. EXISTING UTILITIES SHALL BE MAINTAINED IN OPERATION DURING CONSTRUCTION.
9. ALL PIPELINES, SUBSTRUCTURES, OR UTILITIES OF ANY KIND, WHETHER SHOWN ON THESE PLANS OR NOT, SHALL BE PROTECTED IN PLACE OR, IF REQUIRED, BE REMOVED, RELOCATED, OR REINFORCED TO THE SATISFACTION OF THE CITY ENGINEER AND THE COMPANY OWNING THE FACILITY AT THE EXPENSE OF THE CONTRACTOR.
10. ANY RELOCATION OF EXISTING MAIL BOXES, POWER POLES, STREET LIGHTS, FIRE HYDRANTS, SIGN POSTS, TELEPHONE PEDESTALS, ETC., SHALL BE RELOCATED OR REMOVED AND REINSTALLED BY AND AT THE EXPENSE OF THE CONTRACTOR.
11. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT SURVEYING MONUMENTS IN PLACE AND THE

    CONTRACTOR SHALL BE FINANCIALLY RESPONSIBLE FOR RESETTING DAMAGED OR DESTROYED MONUMENTS.
12. JOSHUA TREES SHALL BE PROTECTED IN PLACE OR RELOCATED AS APPROVED BY THE PARKS DIVISION OF THE CITY OF VICTORVILLE DEPARTMENT OF COMMUNITY SERVICES AT THE CONTRACTOR'S EXPENSE.
13. ADEQUATE STAKES, AS DETERMINED BY THE CITY ENGINEER, ENABLING THE CONTRACTOR TO CONSTRUCT THE WORK TO PLAN AND GRADE SHALL BE SET BY THE DIRECTION OF THE CONTRACTOR'S LICENSED ENGINEER OR SURVEYOR.
14. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE DESIGNING ENGINEER AND THE CITY OF VICTORVILLE ENGINEER.
15. CONTRACTOR WILL BE SUPPLIED WITH ONE (1) SET OF CONTRACT DRAWINGS TO BE USED FOR AS-BUILT DRAWINGS. THE CONTRACTOR SHALL UPDATE THE AS-BUILT DRAWINGS DAILY. THE CONTRACTOR SHALL MAKE THE AS-BUILT DRAWINGS AVAILABLE TO THE OWNER, ENGINEER, OR INSPECTOR UPON REQUEST. THE AS-BUILT DRAWINGS SHALL INCLUDE THE STATIONS OF ALL CONNECTIONS, TEES, AND LATERALS.
16. ALL EXCAVATIONS SHALL BE BACKFILLED AT THE END OF EACH WORKING DAY AND ROADS MADE SAFE AND OPEN TO VEHICULAR TRAFFIC.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TESTING REQUIRED BY THE CITY'S INSPECTOR AND TRENCH BACKFILL COMPACTION TESTING. A CERTIFICATION OF COMPACTION SIGNED BY A REGISTERED ENGINEER SHALL BE SUBMITTED FOR ALL TRENCH BACKFILLS.
18. STATIONS SHOWN ON PROFILE ARE ON CENTERLINE OF THE CONDUIT, UNLESS OTHERWISE INDICATED.
19. MANHOLE RIM ELEVATIONS SHALL BE STAKED IN THE FIELD AT TIME OF CONSTRUCTION.
20. MANHOLE COVER SHALL BE INSTALLED WITH HOLD-DOWN BOLTS.
21. IF ASPHALT OR PORTLAND CEMENT DRAINAGE STRUCTURE IS TO BE PLACED DIRECTLY ON SUBSURFACE, A SOIL STERILANT REGISTERED BY THE EPA FOR USE UNDER ASPHALT OR PORTLAND CEMENT SHALL BE UNIFORMLY APPLIED PER MANUFACTURER'S RECOMMENDED RATE FOR THE ENTIRE SURFACE IN CONTACT WITH THE STRUCTURE.

811

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DEVELOPER.: MIKE SATER
ADDRESS: 683 CLIFFSIDE DR
CITY/STATE: SAN DIMAS, CA 91773
PHONE #: (909) 293-7588

REGISTERED PROFESSIONAL ENGINEER
ROBERT B. MARLER
No. C70159
EXP. 9-30-22
CIVIL
STATE OF CALIFORNIA

APPROVED: ______________________

JOB NO.: 20-082
DATE: 1/20/2021
SCALE: AS SHOWN
DR. BY: DB
CK. BY: RM
ADDRESS: MOJAVE DRIVE & EL EVADO

MCR ENGINEERING
www.mcreng.com
1242 DUPONT COURT
MANTECA, CA 95336
TEL: (209) 239 - 6229
FAX: (209) 239 - 8839

REVISIONS

No.	Description	Date	Approved

CITY OF VICTORVILLE — INCORPORATED SEPT. 21, 1962 — HOME OF THE SAN BERNARDINO COUNTY FAIR — CALIFORNIA

CITY CASE NO. (to be assigned at plan submittal)

CITY OF VICTORVILLE ENGINEERING DEPARTMENT
14343 Civic Drive, Victorville, CA 92392 (760) 955-5000

Approved By:

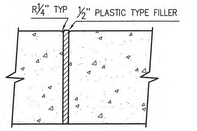
Brian W. Gengler, RCE C44730
City Engineer

DATE

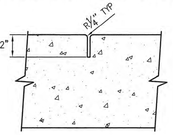
IMPROVEMENT PLANS FOR:
VICTORVILLE MOJAVE OFF-SITE
GENERAL NOTES
CITY OF VICTORVILLE

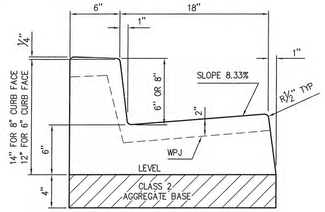
SHEET NO.
2
OF 12 SHEET

EXPANSION JOINT



WEAKENED PLANE JOINT





STANDARD CURB & GUTTER

NOT TO SCALE

NOTES:

1. CURB AND GUTTER SHALL BE CONSTRUCTED FROM PORTLAND CEMENT CONCRETE CONTAINING NOT LESS THAN 550 POUNDS OF TYPE II PORTLAND CEMENT PER CUBIC YARD WITH 4% AIR ENTRAINMENT AND 1" MAXIMUM AGGREGATE GRADING.
2. CONCRETE SHALL BE CURED WITH WHITE PIGMENTED CURING COMPOUND.
3. CURB AND GUTTER SHALL BE CONSTRUCTED ON MINIMUM 4" CLASS 2 AGGREGATE BASE COMPACTED TO 95% RELATIVE COMPACTION.
4. WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED AT 10' INTERVALS.
5. WEAKENED PLANE JOINTS SHALL BE AT LEAST 2" DEEP.
6. EXPANSION JOINTS SHALL BE CONSTRUCTED AT ALL CURB RETURNS, DRIVEWAY APPROACHES AND AT 60' INTERVALS.
7. EXPANSION JOINTS SHALL BE 1/2" WIDE AND FILLED WITH PLASTIC TYPE FILLERS.

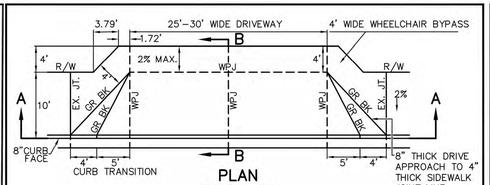
(NOTES CONTINUE ON SHEET 2)

APPROVED BY CITY ENGINEER		CITY OF VICTORVILLE - ENGINEERING DEPARTMENT	
DATE	SIGNATURE	STANDARD CURB & GUTTER	S-01
02/03/09		JOHN A. McGLADE, CITY ENGINEER	SHEET 1 OF 2

NOTES:

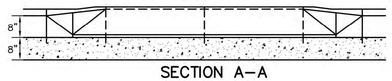
8. IF EXISTING CURB AND GUTTER IS TO BE REMOVED, IT SHALL BE SCORED AT LEAST 1" DEEP WITH A CONCRETE SAW PRIOR TO REMOVAL. IF THE SAWCUT LINE IS CLOSER THAN 2' TO AN EXPANSION JOINT OR WEAKENED PLANE JOINT THE CURB AND GUTTER SHALL BE REMOVED TO THE EXPANSION OR WEAKENED PLANE JOINT.
9. GUTTER SHALL HAVE ROUGH BROOM FINISH WITH 2" SHINER AT FLOW LINE.

APPROVED BY CITY ENGINEER		CITY OF VICTORVILLE - ENGINEERING DEPARTMENT	
DATE	SIGNATURE	STANDARD CURB & GUTTER	S-01
02/03/09		JOHN A. McGLADE, CITY ENGINEER	SHEET 2 OF 2



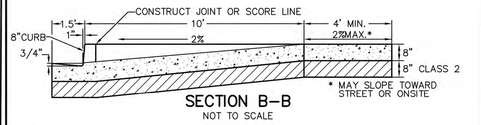
PLAN

NOT TO SCALE



SECTION A–A

NOT TO SCALE



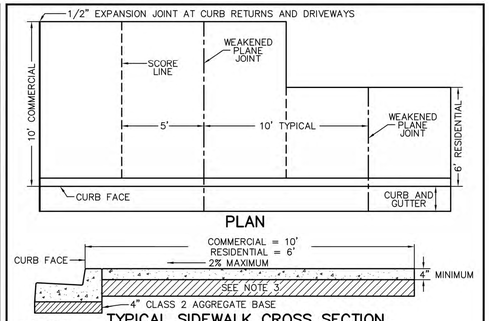
SECTION B–B

NOT TO SCALE

NOTES:

1. COMMERCIAL DRIVE APPROACH SHALL BE CONSTRUCTED FROM PORTLAND CEMENT CONCRETE CONTAINING NOT LESS THAN 550 POUNDS OF TYPE II PORTLAND CEMENT PER CUBIC YARD WITH 4% AIR ENTRAINMENT AND 1" MAXIMUM AGGREGATE GRADING.
2. CONCRETE SHALL BE CURED WITH WHITE PIGMENTED CURING COMPOUND.
3. COMMERCIAL DRIVE APPROACH SHALL BE CONSTRUCTED ON MINIMUM 8" CLASS 2 AGGREGATE BASE COMPACTED TO 95% RELATIVE COMPACTION.
4. WEAKENED PLANE JOINTS SHALL BE AT LEAST 2" DEEP.
5. EXPANSION JOINTS SHALL BE CONSTRUCTED AT BOTH ENDS OF DRIVEWAY APPROACHES.
6. EXPANSION JOINTS SHALL BE 1/2" WIDE AND FILLED WITH PLASTIC TYPE FILLERS.
7. COMMERCIAL DRIVE APPROACH SHALL BE MEDIUM BROOM FINISH.

CITY OF VICTORVILLE - ENGINEERING DEPARTMENT				
REV.	DATE	BY	FLARED CURB COMMERCIAL DRIVE APPROACH (TYPE 2)	S-03
	2/12/93	D.G.H.		
1	7/25/07	STAFF	JOHN A. McGLADE, CITY ENGINEER	SHEET 2 OF 3



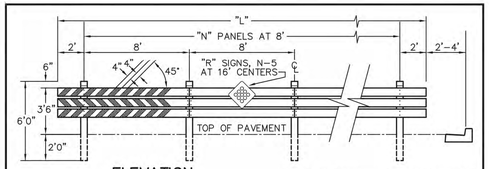
PLAN

TYPICAL SIDEWALK CROSS SECTION

NOTES:

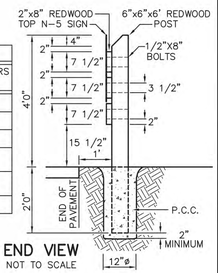
1. SIDEWALK SHALL BE CONSTRUCTED FROM PORTLAND CEMENT CONCRETE CONTAINING NOT LESS THAN 550 POUNDS OF TYPE II PORTLAND CEMENT PER CUBIC YARD WITH 4% AIR ENTRAINMENT AND 1" MAXIMUM AGGREGATE GRADING.
2. CONCRETE SHALL BE CURED WITH WHITE PIGMENTED CURING COMPOUND.
3. BASE SHALL CONSIST OF 6" NATIVE MATERIAL (MINIMUM "R" VALUE = 70) COMPACTED TO 90% RELATIVE COMPACTION. IF NATIVE MATERIAL IS CLAY OR CALICHE OR HAS AN "R" VALUE OF LESS THAN 70, CONSTRUCT 4" CLASS II AGGREGATE BASE COMPACTED TO 90% RELATIVE COMPACTION OR AS DIRECTED BY THE CITY ENGINEER.
4. ON STRAIGHT RUN SIDEWALK, WEAKENED PLANE JOINTS SHALL BE INSTALLED ON 10' CENTERS. SIDEWALK SHALL BE SCORED ON 5' CENTERS.
5. WEAKENED PLANE JOINTS SHALL BE AT LEAST 2" DEEP.
6. EXPANSION JOINTS SHALL BE CONSTRUCTED AT ALL CURB RETURNS, DRIVEWAY APPROACHES AND AT 60' INTERVALS.
7. EXPANSION JOINTS SHALL BE 1/2" WIDE AND FILLED WITH PLASTIC TYPE FILLERS.
8. IF EXISTING SIDEWALK IS TO BE REMOVED, IT SHALL BE SCORED AT LEAST 1" DEEP WITH A CONCRETE SAW PRIOR TO REMOVAL. IF THE SAWCUT LINE IS CLOSER THAN 2' TO A SCORE LINE, WEAKENED PLANE JOINT OR EXPANSION JOINT, THE REMOVAL SHALL BE AS A PANEL TO THE NEAREST SCORE LINE OR JOINT.
9. SIDEWALK SHALL BE LIGHT BROOM FINISH.
10. SIDEWALK SHALL BE WIDENED LOCALLY TO PROVIDE A MINIMUM OF 4' CLEAR OF OBSTRUCTIONS IN THE SIDEWALK SUCH AS UTILITY POLES, STREET LIGHTS, FIRE HYDRANTS, ETC.

CITY OF VICTORVILLE - ENGINEERING DEPARTMENT				
REV.	DATE	BY	STANDARD COMMERCIAL AND RESIDENTIAL SIDEWALK	S-04
	12/21/88	C.M.D.		
1	7/25/07	STAFF	JOHN A. McGLADE, CITY ENGINEER	SHEET 1 OF 1



ELEVATION

NOT TO SCALE



END VIEW

NOT TO SCALE

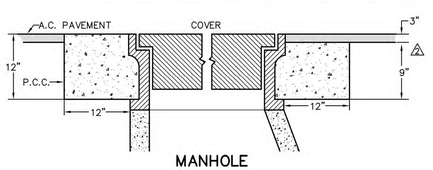
TABLE OF BARRICADES				
ROADWAY TYPE	WIDTH FEET	# SECTIONS "N"	LENGTH* "L"	REFLECTORS "R"
LOCAL ST.	40'	4	36'	2
COLLECTOR	44'	4	36'	2
ARTERIAL	64'	7	60'	3
MAJOR ARTERIAL	80'	9	76'	4
SUPER ARTERIAL	104'	12	100'	6
PARKWAY	80'	9	76'	4

*OR AS SHOWN ON PLANS AND DIRECTED BY THE CITY ENGINEER.

NOTES:

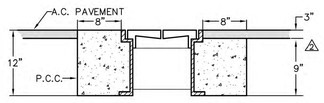
1. BARRICADES SHALL BE CONSTRUCTED WITH REDWOOD PER THE DETAILS. HARDWARE SHALL BE CADMIUM PLATED WITH 2 EACH 1/2"X8" LONG BOLTS WITH WASHERS ON BOTH SIDES AND NUTS TO FASTEN EACH END OF 2"X8" BOARD TO POSTS.
2. REDWOOD POSTS TO BE SET IN 12" HOLES BACKFILLED WITH CLASS C, CONCRETE (4 SACKS PER CUBIC YARD) TO GRADE.
3. MUSHROOM THREADED BOLT ENDS TO PREVENT TAMPERING.
4. ALL EXPOSED WOOD SHALL BE PRIMED AND PAINTED WITH A LATEX–BASE WHITE PAINT. PAINT SHALL CONFORM TO CALTRANS SECTION 91–3. REFLECTIVE TAPE SHALL BE USED ON THE FACE FOR THE ORANGE AND WHITE STRIPING AS SHOWN.
5. N–5 SIGNS SHALL USE REFLECTIVE TAPE INSTEAD OF REFLECTORS.

CITY OF VICTORVILLE - ENGINEERING DEPARTMENT				
REV.	DATE	BY	BARRICADE DETAILS	S-06
	12/11/89	R.D.		
1	6/1/07	STAFF	JOHN A. McGLADE, CITY ENGINEER	SHEET 1 OF 1



MANHOLE

NOT TO SCALE



CLEAN–OUT

NOT TO SCALE

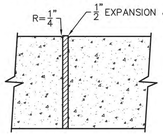
NOTES:

1. CONCRETE SHALL CONTAIN NOT LESS THAN 550 POUNDS OF CEMENTITIOUS MATERIAL PER CUBIC YARD WITH 4% AIR ENTRAINMENT.
2. MANHOLE AND CLEAN–OUT FRAMES SHALL BE ADJUSTED TO GRADE AFTER PLACING SURFACE COURSE OF ASPHALT CONCRETE OR, IF A.C. CAP IS TO BE PLACED OVER CONCRETE RING, THE FRAMES SHALL BE ADJUSTED TO GRADE PRIOR TO PLACING A.C. SURFACE COURSE. FRAMES IN P.C.C. PAVEMENT SHALL BE ADJUSTED TO GRADE JUST PRIOR TO P.C.C. PLACEMENT.
3. MANHOLE AND CLEAN–OUT FRAMES SHALL NOT BE MORE THAN 1/4" OUT OF LEVEL WITH PAVEMENT SURFACE.
4. WHEN ADJUSTING MANHOLE OR CLEAN–OUT TO GRADE THE CONTRACTOR SHALL NOT INTERRUPT THE SERVICE FUNCTION OF THE LINE UNLESS OTHERWISE APPROVED BY THE ENGINEER PRIOR TO SUCH WORK. FURTHER THE CONTRACTOR SHALL IMPLEMENT MEASURES TO PREVENT DEBRIS AND FOREIGN MATERIALS FROM ENTERING THE PIPELINE SYSTEM.

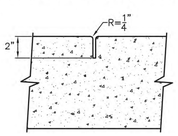
REV.	DATE	BY
	10/2/68	M.A.T.
1	7/74	K.K.S.

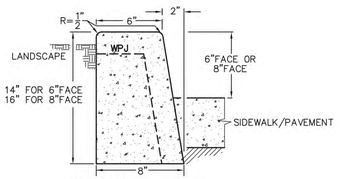
CITY OF VICTORVILLE - ENGINEERING DEPARTMENT				
2	4/5/93	D.G.H.	STANDARD MANHOLE / CLEAN-OUT FRAME AND COVER INSTALLATION	S-07
1	9/9/96	J.A.M.		
4	7/25/07	STAFF	JOHN A. McGLADE, CITY ENGINEER	SHEET 1 OF 1

EXPANSION JOINT



WEAKENED PLANE JOINT





STANDARD CURB

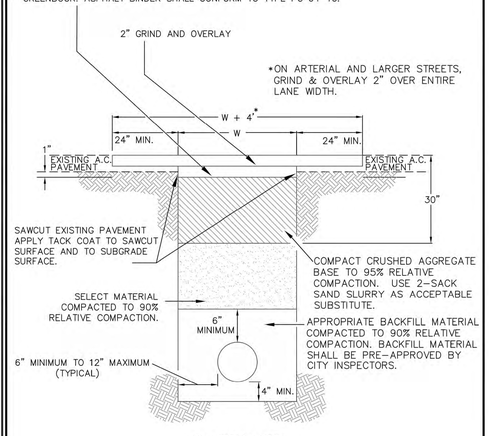
NOT TO SCALE

NOTES:

1. CURB SHALL BE CONSTRUCTED FROM PORTLAND CEMENT CONCRETE CONTAINING NOT LESS THAN 550 POUNDS OF TYPE II PORTLAND CEMENT PER CUBIC YARD WITH 4% AIR ENTRAINMENT AND 1" MAXIMUM AGGREGATE GRADING.
2. CONCRETE SHALL BE CURED WITH WHITE PIGMENTED CURING COMPOUND.
3. WHEN USED ADJACENT TO VEHICULAR TRAFFIC, CURB SHALL BE CONSTRUCTED ON MINIMUM 4" CLASS 2 AGGREGATE BASE COMPACTED TO 95% RELATIVE COMPACTION.
4. WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED AT 10' INTERVALS.
5. WEAKENED PLANE JOINTS SHALL BE AT LEAST 2" DEEP.
6. EXPANSION JOINTS SHALL BE CONSTRUCTED AT ALL CURB RETURNS, DRIVEWAY APPROACHES AND AT 60' INTERVALS.
7. EXPANSION JOINTS SHALL BE 1/2" WIDE AND FILLED WITH PLASTIC TYPE FILLERS.
8. IF EXISTING CURB IS TO BE REMOVED, IT SHALL BE SCORED AT LEAST 1" DEEP WITH A CONCRETE SAW PRIOR TO REMOVAL. IF THE SAWCUT LINE IS CLOSER THAN 2' TO A WEAKENED PLANE JOINT OR EXPANSION JOINT, THE CURB SHALL BE REMOVED TO THE WEAKENED PLANE JOINT OR EXPANSION JOINT.

CITY OF VICTORVILLE - ENGINEERING DEPARTMENT				
REV.	DATE	BY	STANDARD CURB	S-09
	7/8/74	K.K.S.		
1	6/1/07	STAFF	JOHN A. McGLADE, CITY ENGINEER	SHEET 1 OF 1

THICKNESS SHALL BE 1–INCH THICKER THAN EXISTING PAVEMENT BUT NO LESS THAN 3–INCHES. GRADATION SHALL CONFORM TO C2 OF GREENBOOK. ASPHALT BINDER SHALL CONFORM TO TYPE PG 64–10.



TYPICAL SECTION

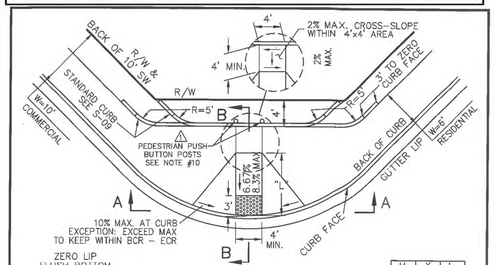
NOT TO SCALE

CITY OF VICTORVILLE - ENGINEERING DEPARTMENT				
REV.	DATE	BY	TRENCH BACKFILL AND PAVEMENT REPAIRS	S-10
3	7/8/14	K.K.S.		
2	5/16/16	STAFF		
1	2/3/09	STAFF	BRIAN W. GENGLER, CITY ENGINEER	SHEET 1 OF 2

NOTES:

1. ALL EXCAVATIONS WITHIN THE CITY RIGHT–OF–WAY REQUIRE AN EXCAVATION PERMIT FROM THE ENGINEERING DEPARTMENT.
2. NOTIFY UNDERGROUND SERVICE ALERT (DigAlert) 2 WORKING DAYS PRIOR TO START OF EXCAVATION AT 1–800–227–2600.
3. NOTIFY ENGINEERING DEPARTMENT 1 WORKING DAY (24 HOURS) PRIOR TO START OF CONSTRUCTION TO ARRANGE INSPECTIONS BY CITY PUBLIC WORKS INSPECTORS.
4. ALL EXCAVATIONS SHALL BE MADE, PROTECTED AND SUPPORTED AS REQUIRED FOR SAFETY AS PRESCRIBED BY CAL OSHA.
5. TEMPORARY PAVING SHALL BE 2 SACK SAND SLURRY OR 2 INCH THICKNESS TEMPORARY ASPHALT OVER COMPACTED SUBGRADE TO TOP OF PAVEMENT TO PROVIDE A SAFE AND SMOOTH TRAVELED SURFACE. PERMANENT PAVING SHALL BE PLACED WITHIN 7 DAYS OF EXCAVATION. SEAL COAT PAVEMENT 6 INCHES BEYOND PAVEMENT REPAIR AREA.
6. ANY STREET PAVED OR RESURFACED IN THE PREVIOUS 36 MONTHS THAT IS TRENCHED FOR 300 FEET OR MORE IN A TRAVELED LANE OR EXTENDS MORE THAN 7 FEET FROM THE CURB FACE / EDGE OF PAVEMENT OR HAS MORE THAN 3 CROSS TRENCHES IN 300 FEET SHALL BE OVERLAID AS DIRECTED BY THE ENGINEER WITH A SELF PROPELLED PAVING MACHINE PER CALTRANS SECTION 39.
7. POT HOLES AND/OR NARROW TRENCH CUTS SHALL NOT BE ALLOWED IN P.C.C. IMPROVEMENTS. P.C.C. SHALL BE SAWCUT, REMOVED AND RECONSTRUCTED IN PANELS AT THE SCORE LINES, OR WEAKENED PLANE JOINTS, OR AT LEAST 10 FEET WIDE AND AS DIRECTED BY THE ENGINEER IN THE FIELD.
8. IF THE EDGE OF THE TRENCH REPAIR (W+4 FEET) IS 2 FEET OR LESS FROM THE LIP OF THE GUTTER OR 3' OR LESS FROM THE EDGE OF PAVEMENT, THE EXISTING PAVEMENT SHALL BE REMOVED AND REPLACED PER THE TYPICAL SECTION.
9. FOR NOMINAL PIPE DIAMETERS OF 12" OR LESS, TYPICAL COVER IS 36" UNLESS CIRCUMSTANCES WARRANT DIFFERENTLY OR OTHERWISE APPROVED BY THE CITY ENGINEER.
10. 2 SACK SAND SLURRY BACKFILL FOR STREETS PAVED OR RESURFACED IN THE PREVIOUS 36 MONTHS BETWEEN SUBGRADE AND THE PIPE ZONE.

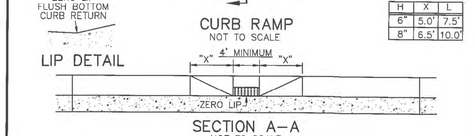
CITY OF VICTORVILLE - ENGINEERING DEPARTMENT				
REV.	DATE	BY	TRENCH BACKFILL AND PAVEMENT REPAIRS	S-10
3	2/8/17	STAFF		
2	5/16/16	STAFF	BRIAN W. GENGLER, CITY ENGINEER	SHEET 2 OF 2
1	2/3/09	STAFF		



CURB RAMP

NOT TO SCALE

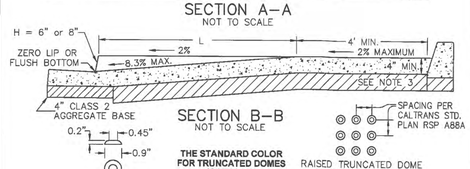
H	X	L
6"	5.0'	7.5'
8"	6.5'	10.0'



LIP DETAIL

SECTION A–A

NOT TO SCALE



SECTION B–B

NOT TO SCALE

THE STANDARD COLOR FOR TRUNCATED DOMES IS YELLOW

SPACING PER CALTRANS STD. PLAN RSP A88A

RAISED TRUNCATED DOME PATTERN (IN–LINE)

RAISED TRUNCATED DOME (N.T.S.)

DETECTABLE WARNING SURFACE (N.T.S.)

APPROVED BY CITY ENGINEER		CITY OF VICTORVILLE - ENGINEERING DEPARTMENT	
DATE	INITIALS	CURB RAMP	S-11B
01/22/19	BB	BRIAN W. GENGLER, CITY ENGINEER	SHEET 1 OF 5

Know what's below. Call before you dig. 811 / 800-227-2600

DEVELOPER.: MIKE SATER
ADDRESS: 683 CLIFFSIDE DR
CITY/STATE: SAN DIMAS, CA 91773
PHONE #: (909) 293-7588

REGISTERED PROFESSIONAL ENGINEER ROBERT B. MARLER No. C70159 EXP. 9-30-22 CIVIL STATE OF CALIFORNIA

APPROVED:

JOB NO.: 20-082
DATE: 1/20/2021
SCALE: AS SHOWN
DR. BY: DB
CK. BY: RM
ADDRESS: MOJAVE DRIVE & EL EVADO

MCR ENGINEERING
www.mcreng.com
1242 DUPONT COURT
MANTECA, CA 95336
TEL : (209) 239 - 6229
FAX : (209) 239 - 8839

REVISIONS

No.	Description	Date	Approved

CITY OF VICTORVILLE CALIFORNIA

CITY CASE NO. (to be assigned at plan submittal)

CITY OF VICTORVILLE
ENGINEERING DEPARTMENT
14343 Civic Drive, Victorville, CA 92392 (760) 955-5000

Approved By:

Brian W. Gengler, RCE C44730
City Engineer

DATE

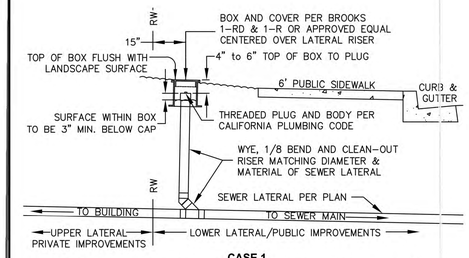
IMPROVEMENT PLANS FOR:
VICTORVILLE MOJAVE OFF-SITE
STANDARD DETAILS
CITY OF VICTORVILLE

SHEET NO.
3
OF 12 SHEET

NOTES:

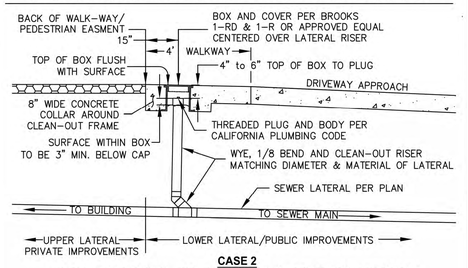
1. CURB RAMP SHALL BE CONSTRUCTED FROM PORTLAND CEMENT CONCRETE CONTAINING NOT LESS THAN 550 POUNDS OF TYPE II PORTLAND CEMENT PER CUBIC YARD WITH 4% AIR ENTRAINMENT AND 1" MAXIMUM AGGREGATE GRADING.
2. CONCRETE SHALL BE CURED WITH WHITE PIGMENTED CURING COMPOUND.
3. BASE SHALL CONSIST OF 6" NATIVE MATERIAL (MINIMUM "R" VALUE = 70) COMPACTED TO 90% RELATIVE COMPACTION. IF NATIVE MATERIAL IS CLAY OR CALICHE OR HAS AN "R" VALUE OF LESS THAN 70, CONSTRUCT 4" CLASS 2 AGGREGATE BASE COMPACTED TO 90% RELATIVE COMPACTION OR AS DIRECTED BY THE CITY ENGINEER.
4. BASE MATERIAL SHALL BE COMPACTED TO 90% RELATIVE COMPACTION FOR THE SIDEWALK AND 95% RELATIVE COMPACTION FOR THE CURB AND GUTTER.
5. IF A CURB RAMP IS TO BE INSTALLED IN AN EXISTING SIDEWALK, CURB AND GUTTER, THE EXISTING SIDEWALK, CURB AND GUTTER SHALL BE SAWCUT AND REMOVED TO THE NEAREST SCORELINE, WEAKENED PLANE JOINT OR EXPANSION JOINT. ALSO, ADJACENT PAVING SHALL BE SAWCUT 2' FROM THE EDGE OF THE GUTTER AND REPAVED ACCORDING TO STANDARD S-10.
6. CONSTRUCT RAMP IN THE MIDDLE OF THE CURB RETURN OR AT THE END OF THE CURB RETURN AWAY FROM THE CROSS GUTTER. RAMP MAY BE MOVED INTO THE TANGENT CURB SECTION AT INTERSECTIONS TO AVOID DISRUPTION OF HEAVY DRAINAGE FLOW.
7. IN LOCATING RAMPS IN CURB RETURN, CONSIDERATION SHOULD BE GIVEN TO THE LOCATION OF EXISTING PAINTED PEDESTRIAN CROSS WALKS AND TRAFFIC SIGNALS.
8. IN CASES WHERE THIS STANDARD DOES NOT FIT THE SITE REQUIREMENT, THE DESIGNER MAY USE CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLAN A88A (LATEST VERSION) AS APPROVED BY THE CITY ENGINEER.
9. IN CASES WHERE SURVEY MONUMENTATION MAY BE DISTURBED, SWING TIES AND NAIL AND TAG (R.P.'s) SHALL BE IDENTIFIED AND REPLACED.
10. IN CASES WHERE INTERSECTION IS SIGNALIZED IT MAY BE REQUIRED TO ADD OR RELOCATE PUSH BUTTON POSTS TO THE BACK OF LANDING IN ORDER TO BE ADA COMPLIANT. ⚠1

APPROVED BY CITY ENGINEER		CITY OF VICTORVILLE - ENGINEERING DEPARTMENT	
DATE	INITIALS	CURB RAMP	S-11B
01/22/19	BB	BRIAN W. GENGLER, CITY ENGINEER	SHEET 5 OF 5



CASE 1

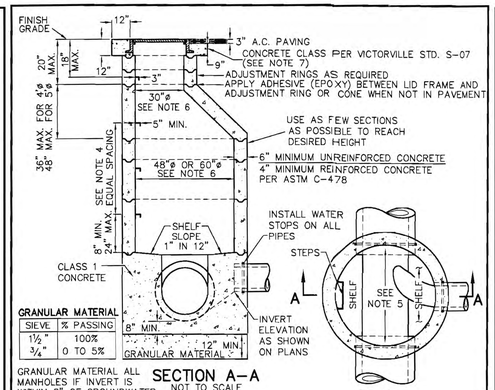
CLEAN-OUT WITHIN RIGHT-OF-WAY IN FRONT YARD LANDSCAPING



CASE 2

CLEAN-OUT WITHIN RIGHT-OF-WAY IN DRIVEWAY APPROACH

APPROVED BY CITY ENGINEER		CITY OF VICTORVILLE - ENGINEERING DEPARTMENT	
DATE	INITIALS	SEWER LATERAL - CLEANOUTS	SS-04
04/09/19	BB	BRIAN W. GENGLER, CITY ENGINEER	SHEET 1 OF 2



GRANULAR MATERIAL	
SIEVE	% PASSING
1½"	100%
¾"	0 TO 5%

GRANULAR MATERIAL ALL MANHOLES IF INVERT IS WITHIN 8" OF GROUNDWATER

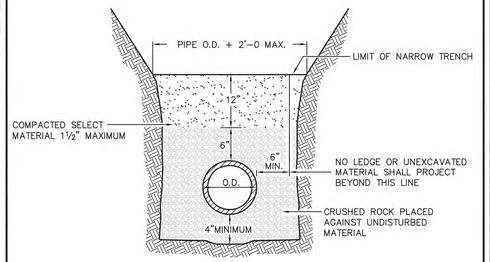
SECTION A-A
NOT TO SCALE

PLAN
NOT TO SCALE

NOTES:

1. ALL SECTIONS TO BE SET IN 1:3 MORTAR TRIMMED SMOOTH INSIDE.
2. CONCRETE FOR MANHOLE SECTIONS SHALL BE 3000 P.S.I. MINIMUM.
3. PROVIDE FLEXIBLE JOINT IN ALL SEWER PIPE OUTSIDE OF MANHOLE BUT WITHIN 12" OF CONCRETE BASE FOR VCP ONLY.
4. MANHOLE STEPS SHALL BE ALHAMBRA FOUNDRY A3320 OR EQUAL. INSTALL AT 12" MINIMUM TO 16" MAXIMUM EQUAL SPACINGS WITH TREAD WIDTH OF 14" MINIMUM.
5. FOR ALL PIPE SIZES THE TOP HALF OF THE PIPE SHALL BE REMOVED TO THE CONTOUR OF THE INSIDE OF THE MANHOLE AND THE BROKEN EDGES SHALL BE TROWELED SMOOTH WITH CEMENT MORTAR PROVIDING A MONOLITHIC BASE.
6. A 30" DIA. CLEAR OPENING, RING AND COVER, SHALL BE USED FOR ALL MANHOLES. A 60" SHAFT DIA. SHALL BE USED FOR MANHOLES WITH A) 18" DIA. OR LARGER, OR B) WHERE 2 OR MORE INLETS EXIST, OR C) WHERE MANHOLE SHAFT DEPTH IS 20' OR MORE IN DEPTH.
7. IN AREAS WHERE MANHOLE IS IN A DIRT EASEMENT, A MINIMUM 12" WIDE BY 12" DEEP PAD OR PRE-CAST FRAME AND LID WILL BE REQUIRED AROUND MANHOLE LID AND FRAME.

APPROVED BY CITY ENGINEER		CITY OF VICTORVILLE - ENGINEERING DEPARTMENT	
DATE	INITIALS	SANITARY SEWER MANHOLE	SS-01
03/28/19	BB	BRIAN W. GENGLER, CITY ENGINEER	SHEET 1 OF 1

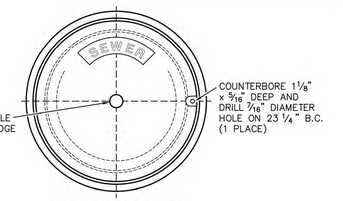


PVC PIPE BEDDING
NOT TO SCALE

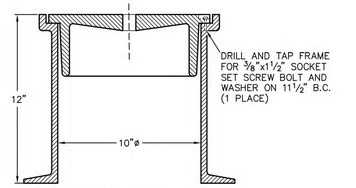
NOTES:

1. P.V.C. PIPE SHALL CONFORM TO THE REQUIREMENTS OF ASTM D-2680, D-3034 AND F-679 WITH AN SDR VALUE NOT MORE THAN 35 OR F-949.
2. BEDDING SHALL BE PLACED IN 6" LAYERS AND MECHANICALLY COMPACTED TO 12" ABOVE PIPE.
3. TRENCH EXCAVATION AND BACKFILL SHALL BE PER SECTION 306.1 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND CITY STANDARD DRAWING S-10.
4. THE CRUSHED ROCK BEDDING SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 306-1.2.13.

REV.	DATE	BY	CITY OF VICTORVILLE - ENGINEERING DEPARTMENT	
1	7/28/89	R.S.	PVC SEWER PIPE BEDDING	SS-05
2	3/23/93	D.G.H.	JOHN A. McGLADE, CITY ENGINEER	SHEET 2 OF 2
1	6/1/07	STAFF		



PLAN OF FRAME

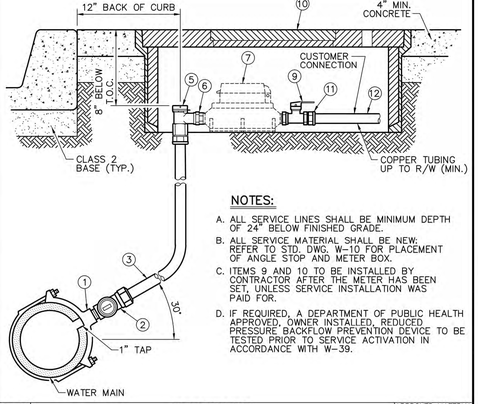


SECTION THROUGH FRAME AND COVER

NOTES:

1. MANHOLE FRAME AND COVER TO BE MANUFACTURED FROM CLASS 35 CAST IRON PER ASTM A-48.
2. FRAME AND COVER SHALL BE CAPABLE OF SUPPORTING H-20 WHEEL LOADING.
3. COVER SHALL HAVE CAST INTO TOP IN 1" HIGH MINIMUM BLOCK LETTERS "SEWER", MANUFACTURER'S NAME OR INSIGNIA SHALL BE CAST INTO BOTH FRAME AND COVER.
4. PAINT FRAME AND COVER WITH BLACK BITUMINOUS PAINT.
5. APPROVED SUPPLIERS: ALHAMBRA FOUNDRY A-1240.

CITY OF VICTORVILLE - ENGINEERING DEPARTMENT				
REV.	DATE	BY	CLEAN-OUT FRAME AND COVER	SS-06
	5/18/93	D.G.H.	JOHN A. McGLADE, CITY ENGINEER	SHEET 1 OF 1
1	6/1/07	STAFF		

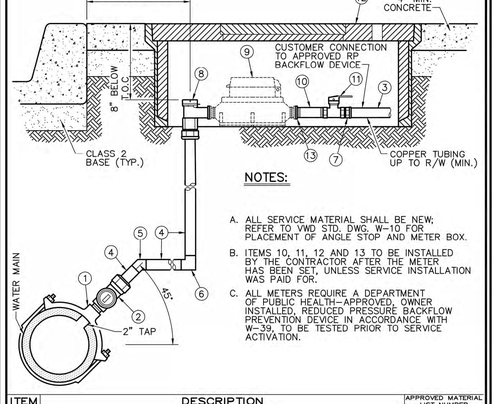


NOTES:

A. ALL SERVICE LINES SHALL BE MINIMUM DEPTH OF 24" BELOW FINISHED GRADE.
B. ALL SERVICE MATERIAL SHALL BE NEW; REFER TO STD. DWG. W-10 FOR PLACEMENT OF ANGLE STOP AND METER BOX.
C. ITEMS 9 AND 10 TO BE INSTALLED BY CONTRACTOR AFTER THE METER HAS BEEN SET, UNLESS SERVICE INSTALLATION WAS PAID FOR.
D. IF REQUIRED, A DEPARTMENT OF PUBLIC HEALTH APPROVED, OWNER INSTALLED, REDUCED PRESSURE BACKFLOW PREVENTION DEVICE TO BE TESTED PRIOR TO SERVICE ACTIVATION IN ACCORDANCE WITH W-39.

ITEM	DESCRIPTION	APPROVED MATERIAL LIST NUMBER
1	"MAIN SIZE" x 1" SERVICE SADDLE	7-B
2	1" CORP. STOP (MIP x COMPRESSION)	2-C
3	1" SERVICE LATERAL (LENGTH VARIES)	1-D
4	NOT USED	6-D
5	1" x 1" ANGLE METER STOP	2-E
6	3/4" x 1" METER BUSHING (NOT REQUIRED ON 1" METERS)	13-B
7	METER (FURNISHED AND INSTALLED BY VWD)	13-C
8	NOT USED	2-H
9	3/4" OR 1" BALL VALVE PER RESPECTIVE METER SIZE	2-I
10	METER BOX SIZE (13"W x 24"L x 12"D)	9-D
11	3/4" OR 1" SERVICE FITTING (MIP X C110) PER RESPECTIVE METER SIZE	6-D
12	3/4" OR 1" COPPER TUBING PER RESPECTIVE METER SIZE	1-D

CITY OF VICTORVILLE - ENGINEERING DEPARTMENT				
REV.	DATE	BY	TYPICAL SERVICE INSTALLATION FOR 3/4" AND 1" METERS	W-01
4	9/14/16	STAFF		
3	4/5/16	STAFF		
2	3/12/15	STAFF	BRIAN W. GENGLER, CITY ENGINEER	SHEET 1 OF 1



NOTES:

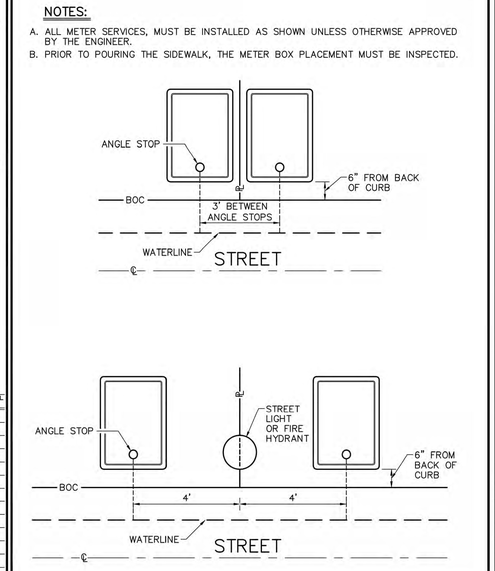
A. ALL SERVICE MATERIAL SHALL BE NEW; REFER TO VWD STD. DWG. W-10 FOR PLACEMENT OF ANGLE STOP AND METER BOX.
B. ITEMS 10, 11, 12 AND 13 TO BE INSTALLED BY THE CONTRACTOR AFTER THE METER HAS BEEN SET, UNLESS SERVICE INSTALLATION WAS PAID FOR.
C. ALL METERS REQUIRE A DEPARTMENT OF PUBLIC HEALTH-APPROVED, OWNER INSTALLED, REDUCED PRESSURE BACKFLOW PREVENTION DEVICE IN ACCORDANCE WITH W-39, TO BE TESTED PRIOR TO SERVICE ACTIVATION.

ITEM	DESCRIPTION	APPROVED MATERIAL LIST NUMBER
1	"MAIN SIZE" x 2" SERVICE SADDLE	7-B
2	2" CORP. STOP (MIP x COMPRESSION)	2-D
3	1 1/2" OR 2" COPPER TUBING PER RESPECTIVE METER SIZE	1-D
4	2" SERVICE LATERAL (LENGTH VARIES)	1-D
5	2" - 45° FITTING (SOLDER)	6-D
6	2" - 90° ELBOW (SOLDER)	6-D
7	1 1/2" SERVICE FITTING (MIP x C110) OR 2" SERVICE FITTING (MIP x C110)	6-D
8	2" ANGLE METER STOP (COMPRESSION x FLG)	2-F
9	METER (FURNISHED AND INSTALLED BY VWD)	13-C
10	1 1/2" OR 2" NIPPLE PER RESPECTIVE METER SIZE, 4" LENGTH	6-D
11	1 1/2" OR 2" BALL VALVE PER RESPECTIVE METER SIZE	2-I
12	METER BOX SIZE (17"W x 30"L x 12"D)	9-E
13	1 1/2" OR 2" FLANGE ADAPTOR (FLG x FIP) PER RESPECTIVE METER SIZE	6-D

CITY OF VICTORVILLE - ENGINEERING DEPARTMENT				
REV.	DATE	BY	TYPICAL SERVICE INSTALLATION FOR 1 1/2" AND 2" METERS	W-03
4	9/14/16	STAFF		
3	4/5/16	STAFF		
2	3/12/15	STAFF	BRIAN W. GENGLER, CITY ENGINEER	SHEET 1 OF 1

NOTES:

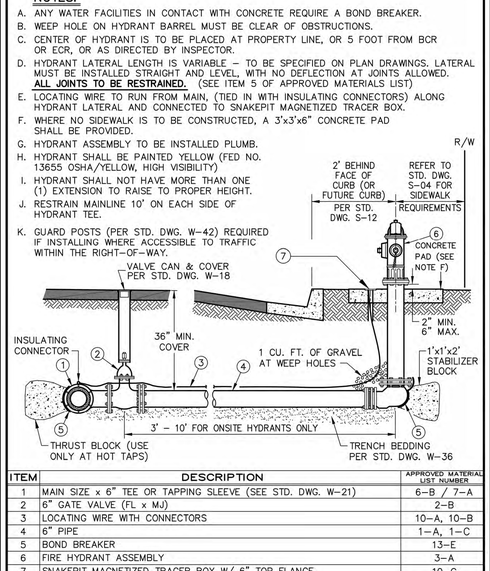
A. ALL METER SERVICES, MUST BE INSTALLED AS SHOWN UNLESS OTHERWISE APPROVED BY THE ENGINEER.
B. PRIOR TO POURING THE SIDEWALK, THE METER BOX PLACEMENT MUST BE INSPECTED.



CITY OF VICTORVILLE - ENGINEERING DEPARTMENT				
REV.	DATE	BY	METER BOX PLACEMENT	W-10
2	12/18/14	STAFF		
1	8/13/08	STAFF	BRIAN W. GENGLER, CITY ENGINEER	SHEET 1 OF 1

NOTES:

A. ANY WATER FACILITIES IN CONTACT WITH CONCRETE REQUIRE A BOND BREAKER.
B. WEEP HOLE ON HYDRANT BARREL MUST BE CLEAR OF OBSTRUCTIONS.
C. CENTER OF HYDRANT IS TO BE PLACED AT PROPERTY LINE, OR 5 FOOT FROM BCR OR ECR, OR AS DIRECTED BY INSPECTOR.
D. HYDRANT LATERAL LENGTH IS VARIABLE - TO BE SPECIFIED ON PLAN DRAWINGS. LATERAL MUST BE INSTALLED STRAIGHT AND LEVEL, WITH NO DEFLECTION AT JOINTS ALLOWED. **ALL JOINTS TO BE RESTRAINED.** (SEE ITEM 5 OF APPROVED MATERIALS LIST)
E. LOCATING WIRE TO RUN FROM MAIN, (TIED IN WITH INSULATING CONNECTORS) ALONG HYDRANT LATERAL AND CONNECTED TO SNAKEPIT MAGNETIZED TRACER BOX.
F. WHERE NO SIDEWALK IS TO BE CONSTRUCTED, A 3'x3'x6" CONCRETE PAD SHALL BE PROVIDED.
G. HYDRANT ASSEMBLY TO BE INSTALLED PLUMB.
H. HYDRANT SHALL BE PAINTED YELLOW (FED NO. 13655 OSHA/YELLOW, HIGH VISIBILITY)
I. HYDRANT SHALL NOT HAVE MORE THAN ONE (1) EXTENSION TO RAISE TO PROPER HEIGHT.
J. RESTRAIN MAINLINE 10' ON EACH SIDE OF HYDRANT TEE.
K. GUARD POSTS (PER STD. DWG. W-42) REQUIRED IF INSTALLING WHERE ACCESSIBLE TO TRAFFIC WITHIN THE RIGHT-OF-WAY.

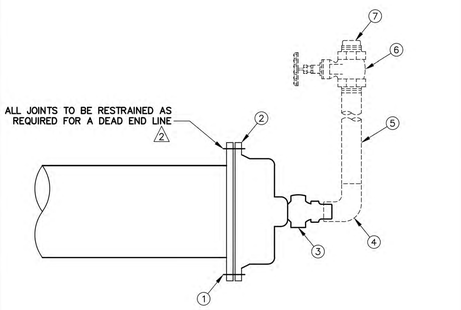


ITEM	DESCRIPTION	APPROVED MATERIAL LIST NUMBER
1	MAIN SIZE x 6" TEE OR TAPPING SLEEVE (SEE STD. DWG. W-21)	6-B / 7-A
2	6" GATE VALVE (FL x MJ)	2-B
3	LOCATING WIRE WITH CONNECTORS	10-A, 10-B
4	6" PIPE	1-A, 1-C
5	BOND BREAKER	13-E
6	FIRE HYDRANT ASSEMBLY	3-A
7	SNAKEPIT MAGNETIZED TRACER BOX W/ 6" TOP FLANGE	10-C

CITY OF VICTORVILLE - ENGINEERING DEPARTMENT				
REV.	DATE	BY	STANDARD FIRE HYDRANT	W-11
4	5/16/16	STAFF		
3	4/6/16	STAFF		
2	12/18/14	STAFF	BRIAN W. GENGLER, CITY ENGINEER	SHEET 1 OF 1

NOTES:

A. ITEMS 4, 5, 6 AND 7 ARE OPTIONAL AND TO BE PROVIDED BY CONTRACTOR FOR EASE OF TESTING. THESE ITEMS SHALL BE REMOVED PRIOR TO TRENCH BACKFILL.



ITEM	DESCRIPTION	APPROVED MATERIAL LIST NUMBER
1	JOINT RESTRAINT	5-A, B, C
2	MJ CAP OR FL x MJ ADAPTOR AND BLIND FLANGE WITH 2" TAP	
3	2" CORP STOP W/ THREADED PLUG	
4	STREET 90° BEND (BRASS)	
5	2" NIPPLE, LENGTH AS NEEDED FOR TEMPORARY BLOW-OFF	
6	2" BALL VALVE WITH HANDWHEEL FOR TEMPORARY BLOW-OFF	
7	2" THREADED PLUG FOR TEMPORARY BLOW-OFF	

CITY OF VICTORVILLE - ENGINEERING DEPARTMENT				
REV.	DATE	BY	TEMPORARY BLOW-OFF ASSEMBLY	W-15
2	12/18/14	STAFF		
1	8/13/08	STAFF	BRIAN W. GENGLER, CITY ENGINEER	SHEET 1 OF 1

811 Know what's below. Call before you dig. 811 / 800-227-2600

DEVELOPER.: MIKE SATER
ADDRESS: 683 CLIFFSIDE DR
CITY/STATE: SAN DIMAS, CA 91773
PHONE #: (909) 293-7588

REGISTERED PROFESSIONAL ENGINEER ROBERT B. MARLER No. C70159 EXP. 9-30-22 CIVIL STATE OF CALIFORNIA

APPROVED:

JOB NO.: 20-082
DATE: 1/20/2021
SCALE: AS SHOWN
DR. BY: DB
CK. BY: RM
ADDRESS: MOJAVE DRIVE & EL EVADO

mcr ENGINEERING
www.mcrengineering.com
1242 DUPONT COURT
MANTECA, CA 95336
TEL: (209) 239 - 6229
FAX: (209) 239 - 8839

REVISIONS

No.	Description	Date	Approved

CITY OF VICTORVILLE CALIFORNIA

CITY CASE NO. (to be assigned at plan submittal)

CITY OF VICTORVILLE ENGINEERING DEPARTMENT
14343 Civic Drive, Victorville, CA 92392 (760) 955-5000

Approved By:

~~Brian W. Gengler, RCE C41730~~
City Engineer

DATE

IMPROVEMENT PLANS FOR:

VICTORVILLE MOJAVE OFF-SITE

STANDARD DETAILS

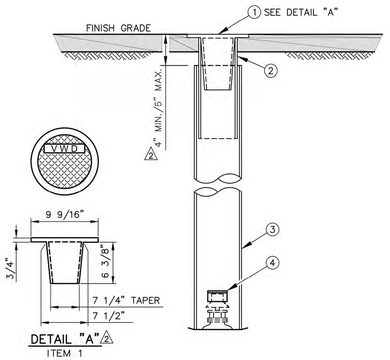
CITY OF VICTORVILLE

SHEET NO. 4 OF 12 SHEET

NOTES:

A. ⚠2 VALVE CAN ASSEMBLY SHALL NOT BE LOCATED IN A GUTTER OR CROSS GUTTER.

B. WHERE DEPTH TO VALVE OPERATOR IS OVER 6 FEET, AN OPERATOR EXTENSION PER STD. DWG. W-19 WILL BE REQUIRED.



ITEM	DESCRIPTION	APPROVED MATERIAL LIST NUMBER
1	VALVE COVER – WITH 1" 'VWD' CAST THEREON FOR WATER LINE	13–F
2	VALVE SLIP CAN – 18" LONG (ADJUST TO GRADE, ONE ONLY)	13–G
3	VALVE CAN TUBE – 8" SDR35 (LENGTH VARIES)	13–H
4	VALVE	2–A, 2–B

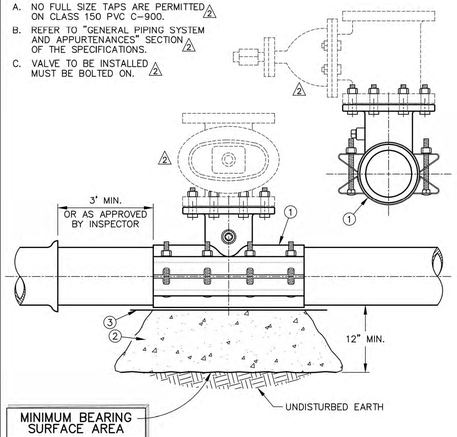
CITY OF VICTORVILLE - ENGINEERING DEPARTMENT				
REV.	DATE	BY	VALVE CAN ASSEMBLY	W-18
3	11/7/16	STAFF		
2	12/18/14	STAFF	BRIAN W. GENGLER, CITY ENGINEER	SHEET 1 OF 1

NOTES:

A. NO FULL SIZE TAPS ARE PERMITTED ON CLASS 150 PVC C–900. ⚠2

B. REFER TO "GENERAL PIPING SYSTEM AND APPURTENANCES" SECTION OF THE SPECIFICATIONS. ⚠2

C. VALVE TO BE INSTALLED MUST BE BOLTED ON. ⚠2



MINIMUM BEARING SURFACE AREA	
PIPE SIZE	TEE
6"	3.5 SQ. FT.
8"	5.5 SQ. FT.
12"	12.0 SQ. FT.

ITEM	DESCRIPTION	APPROVED MATERIAL LIST NUMBER
1	TAPPING SLEEVE	7–A
2	CONCRETE THRUST BLOCK	
3	BOND BREAKER	13–E

CITY OF VICTORVILLE - ENGINEERING DEPARTMENT				
REV.	DATE	BY	HOT TAP DETAIL AC, PVC, DIP	W-21
2	4/1/14	STAFF		
1	10/16/08	STAFF	BRIAN W. GENGLER, CITY ENGINEER	SHEET 1 OF 1

NOTES:

A. REDUCED PRESSURE DETECTOR ASSEMBLY SHALL BE INSTALLED IN A LOCATION APPROVED BY VWD AND THE FIRE DEPARTMENT HAVING JURISDICTION.

B. REDUCED PRESSURE DETECTOR ASSEMBLY SHALL BE INSTALLED HORIZONTAL AND PLUMB.

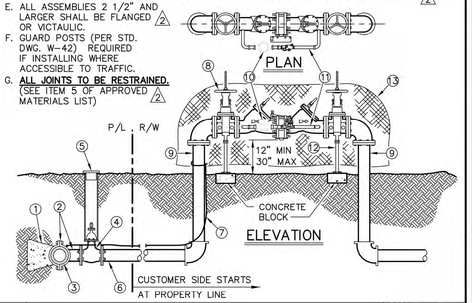
C. ASSEMBLIES MUST BE USC & CDPH APPROVED.

D. RPBD MUST BE TESTED BY A CERTIFIED CITY BACKFLOW TESTER PRIOR TO WATER SERVICE BEING ACTIVATED. A COPY OF THE TEST MUST BE SUBMITTED TO THE INSPECTOR. ⚠2

E. ALL ASSEMBLIES 2 1/2" AND LARGER SHALL BE FLANGED OR VICTAULIC. ⚠2

F. GUARD POSTS (PER STD. DWG. W–42) REQUIRED IF INSTALLING WHERE ACCESSIBLE TO TRAFFIC.

G. **ALL JOINTS TO BE RESTRAINED.** (SEE ITEM 5 OF APPROVED MATERIALS LIST) ⚠2



ITEM	DESCRIPTION	APPROVED MATERIAL LIST NUMBER
1	THRUST BLOCK, AS REQUIRED	
2	TAPPING SLEEVE OR TEE	7–A
3	WATER MAIN	
4	RESILIENT WEDGE GATE VALVE (MIN. 6")	2–B
5	VALVE CAN & COVER PER STD. DWG. W–18	13–F,G,H
6	PIPE	1–A,B,C
7	LOCATING WIRE WITH CONNECTORS (IF REQUIRED BY INSPECTOR) ⚠2	10–A, 10–B
8	REDUCED PRESSURE DETECTOR ASSEMBLY W/ OS&Y VALVES ⚠2	12–A
9	PIPE	1–C
10	3/4–INCH BY–PASS METER (FURNISHED AND INSTALLED BY VWD) ⚠2	13–C
11	BY–PASS LINE ASSEMBLY WITH RP BACKFLOW	4–A ⚠2
12	ADJUSTABLE PIPE SUPPORT (REQUIRED FOR 6" & LARGER)	13–D
13	INSULATING BAG	4–B

CITY OF VICTORVILLE - ENGINEERING DEPARTMENT				
REV.	DATE	BY	FIRE SERVICE - REDUCED PRESSURE DETECTOR ASSEMBLY	W-28
3	02/01/17	STAFF		
2	12/18/14	STAFF	BRIAN W. GENGLER, CITY ENGINEER	SHEET 1 OF 1

NOTES:

A. RP AND PIPING SHALL BE AT LEAST THE SAME DIAMETER AS THE METER.

B. PLACE BOTTOM OF VALVE A MINIMUM OF 12" AND A MAXIMUM OF 24" ABOVE FINISHED GRADE. FOLLOW MANUFACTURES SPECIFICATIONS FOR PLACEMENT IN RESIDENTIAL APPLICATIONS.

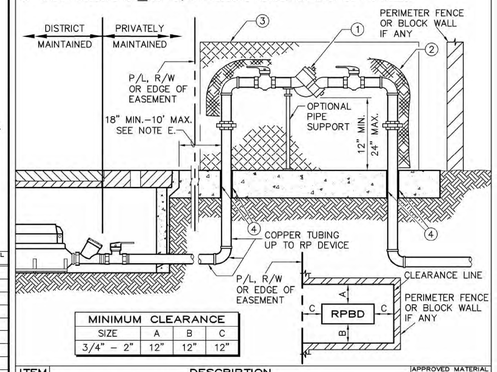
C. CUSTOMER SHALL PROTECT DEVICE FROM FREEZING AND MAINTAIN ACCESS FOR TESTING. ACCESS BOX IS REQUIRED IN RESIDENTIAL APPLICATIONS.

D. RP SHALL BE LOCATED AS CLOSE TO THE METER AS POSSIBLE ON PRIVATE PROPERTY AND SHALL BE READILY ACCESSIBLE AT ALL TIMES (i.e., OUTSIDE OF PERIMETER FENCE OR BLOCK WALL). LOCATION SHALL BE APPROVED BY INSPECTOR.

E. NO CONNECTIONS OF ANY KIND WILL BE ALLOWED IN THIS AREA. INSPECTION BY THE CITY SHALL TAKE PLACE PRIOR TO BACKFILL.

F. RPBD MUST BE TESTED BY A CERTIFIED CITY BACKFLOW TESTER PRIOR TO WATER SERVICE BEING ACTIVATED. A COPY OF THE TEST MUST BE SUBMITTED TO THE INSPECTOR.

G. WHEN PRESSURE IS ≥ 80 PSI, A PRESSURE REGULATOR MUST BE INSTALLED.



MINIMUM CLEARANCE			
SIZE	A	B	C
3/4" – 2"	12"	12"	12"

ITEM	DESCRIPTION	APPROVED MATERIAL LIST NUMBER
1	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION DEVICE	4–A
2	INSULATING BAG	4–B
3	ALL SPEC BACKFLOW ENCLOSURE	13–L
4	BOND BREAKER	13–E

CITY OF VICTORVILLE - ENGINEERING DEPARTMENT				
REV.	DATE	BY	2" AND SMALLER - REDUCED PRESSURE BACKFLOW DEVICE INSTALLATION	W-39
1	8/27/18	STAFF	BRIAN W. GENGLER, CITY ENGINEER	SHEET 1 OF 1

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DEVELOPER.: MIKE SATER
ADDRESS: 683 CLIFFSIDE DR
CITY/STATE: SAN DIMAS, CA 91773
PHONE #: (909) 293-7588

REGISTERED PROFESSIONAL ENGINEER ROBERT B. MARLER No. C70159 EXP. 9-30-22 CIVIL STATE OF CALIFORNIA

APPROVED:

JOB NO.: 20-082
DATE: 1/20/2021
SCALE: AS SHOWN
DR. BY: DB
CK. BY: RM
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mcr ENGINEERING
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1242 DUPONT COURT
MANTECA, CA 95336
TEL : (209) 239 - 6229
FAX : (209) 239 - 8839

REVISIONS

No.	Description	Date	Approved

CITY CASE NO. (to be assigned at plan submittal)

CITY OF VICTORVILLE ENGINEERING DEPARTMENT
14343 Civic Drive, Victorville, CA 92392 (760) 955-5000

Approved By:

~~Brian W. Gengler, RCE C44730~~
City Engineer

DATE

IMPROVEMENT PLANS FOR:

VICTORVILLE MOJAVE OFF-SITE STANDARD DETAILS

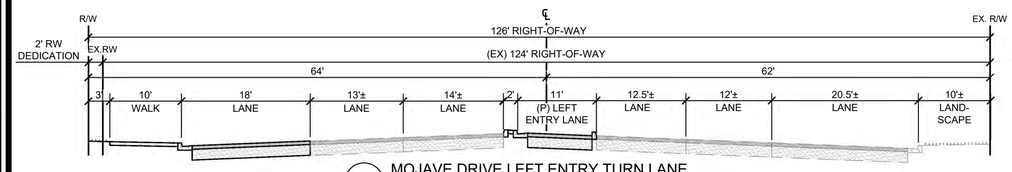
CITY OF VICTORVILLE

SHEET NO. 5

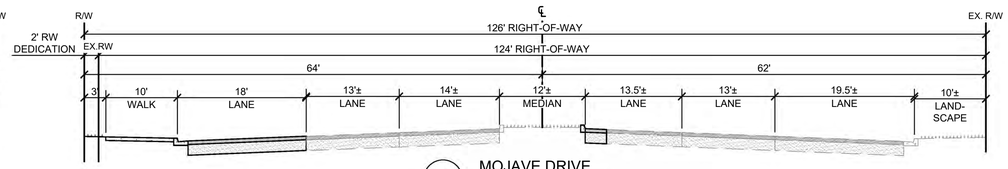
OF 12 SHEET

STRIPING LEGEND

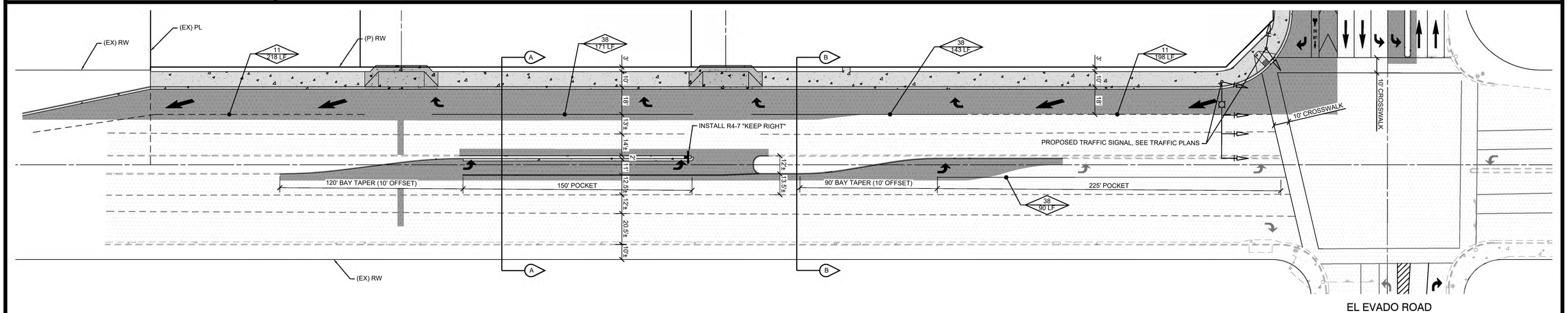
	EXISTING	DEMO	PROPOSED
TYPE I ARROW			
TYPE II ARROW			
TYPE III ARROW			
TYPE IV ARROW			
TYPE VI ARROW			
STRIPING # PER CALTRANS CH.6	# 100 LF	N/A	# 100 LF
TYPICAL SIGNAGE			
STRIPING			



A MOJAVE DRIVE LEFT ENTRY TURN LANE



B MOJAVE DRIVE

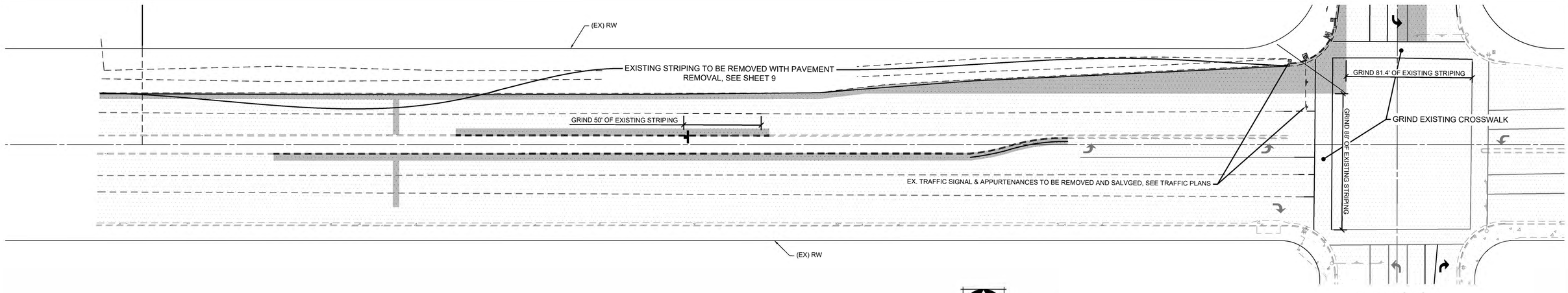


EL EVADO ROAD

MOJAVE DRIVE STRIPING & SIGNAGE PLAN

NORTH

0 30
15



EL EVADO ROAD

MOJAVE DRIVE STRIPING & SIGNAGE PLAN

NORTH

0 30
15

PAVING SHOWN FOR REFERENCE ONLY, SEE SHEET 9 FOR PAVING PLAN AND DETAILS

811 Know what's below. Call before you dig. 811 / 800-227-2600

DEVELOPER.:	MIKE SATER
ADDRESS:	683 CLIFFSIDE DR
CITY/STATE:	SAN DIMAS, CA 91773
PHONE #:	(909) 293-7588

REGISTERED PROFESSIONAL ENGINEER ROBERT B. WARLER No. C70159 EXP. 9-30-22 CIVIL STATE OF CALIFORNIA

APPROVED: _____

JOB NO.:	20-082
DATE:	1/20/2021
SCALE:	AS SHOWN
DR. BY:	DB
CK. BY:	RM
ADDRESS:	MOJAVE DRIVE & EL EVADO

MCR ENGINEERING
www.mcreng.com
1242 DUPONT COURT
MANTECA, CA 95336
TEL : (209) 239 - 6229
FAX : (209) 239 - 8839

REVISIONS

No.	Description	Date	Approved

CITY OF VICTORVILLE CALIFORNIA

CITY CASE NO. (to be assigned at plan submittal)

CITY OF VICTORVILLE
ENGINEERING DEPARTMENT
14343 Civic Drive, Victorville, CA 92392 (760) 955-5000

Approved By: _____
Brian W. Gengler, RCE C44730
City Engineer

DATE _____

IMPROVEMENT PLANS FOR:

VICTORVILLE MOJAVE OFF-SITE

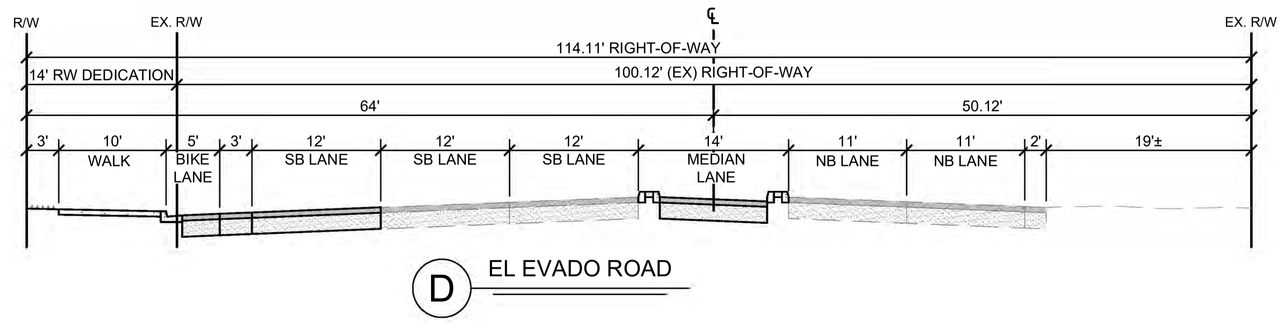
STRIPING & SIGNAGE PLAN
MOJAVE DRIVE
CITY OF VICTORVILLE

SHEET NO. 7

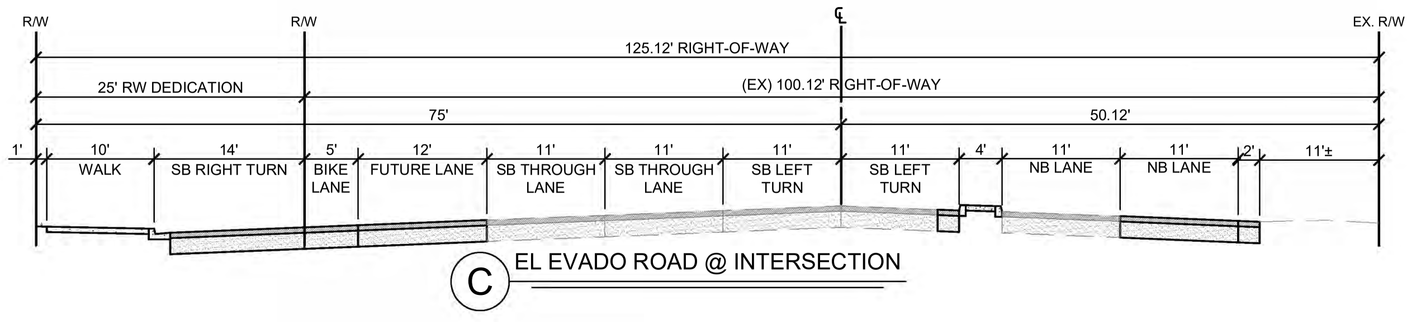
OF 12 SHEET

STRIPING LEGEND

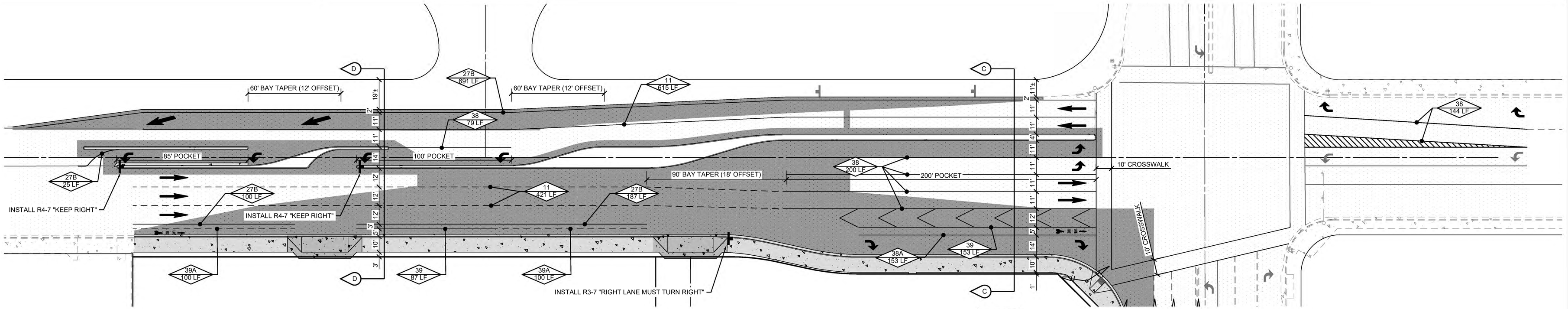
	EXISTING	DEMO	PROPOSED
TYPE I ARROW			
TYPE II ARROW			
TYPE III ARROW			
TYPE IV ARROW			
TYPE VI ARROW			
STRIPING # PER CALTRANS CH.6	# / 100 LF	N/A	# / 100 LF
TYPICAL SIGNAGE			
STRIPING			



D EL EVADO ROAD



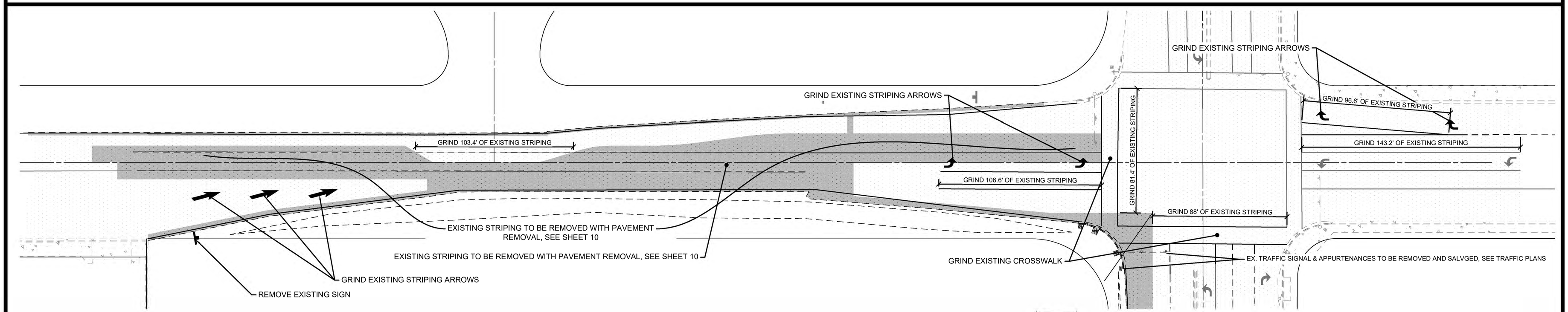
C EL EVADO ROAD @ INTERSECTION



EL EVADO ROAD STRIPING & SIGNAGE PLAN

NORTH 0 30 15

MOJAVE DRIVE



EL EVADO ROAD STRIPING & SIGNAGE DEMOLITION PLAN

NORTH 0 30 15

MOJAVE DRIVE

PAVING SHOWN FOR REFERENCE ONLY, SEE SHEET 10 FOR PAVING PLAN AND DETAILS

811 Know what's below. Call before you dig. 811 / 800-227-2600

DEVELOPER.: MIKE SATER
ADDRESS: 683 CLIFFSIDE DR
CITY/STATE: SAN DIMAS, CA 91773
PHONE #: (909) 293-7588

REGISTERED PROFESSIONAL ENGINEER ROBERT B. MARLER No. C70159 EXP. 9-30-22 CIVIL STATE OF CALIFORNIA

APPROVED: _____

JOB NO.: 20-082
DATE: 1/20/2021
SCALE: AS SHOWN
DR. BY: DB
CK. BY: RM
ADDRESS: MOJAVE DRIVE & EL EVADO

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TEL: (209) 239 - 6229
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REVISIONS

No.	Description	Date	Approved

CITY OF VICTORVILLE CALIFORNIA

CITY CASE NO. (to be assigned at plan submittal)

CITY OF VICTORVILLE
ENGINEERING DEPARTMENT
14343 Civic Drive, Victorville, CA 92392 (760) 955-5000

Approved By:

_____ _____
Brian W. Gengler, RCE C44730 DATE
City Engineer

IMPROVEMENT PLANS FOR:
VICTORVILLE MOJAVE OFF-SITE
STRIPING & SIGNAGE PLAN EL EVADO ROAD
CITY OF VICTORVILLE

SHEET NO. **8** OF 12 SHEET

PAVEMENT SECTIONS:

PER SOILS REPORT

ASPHALT PAVEMENT: (MOJAVE DRIVE)
- 7.0" A.C OVER 10" A.B. (TI=12.0)

HEAVY TRAFFIC CONCRETE: (DRIVEWAYS)
- PER C.O.V. STD S-03 (TYPE 2)
- 8.0" CONCRETE OVER 8.0" A.B. COMPACTED TO 95% R.C.
- REINFORCED WITH #4 REBAR AT 18"O.C. EACH WAY

LIGHT TRAFFIC CONRETE: (SIDEWALKS)
- PER C.O.V. STD S-04

EXISTING CONCRETE: (TO REMAIN)

EXISTING PAVEMENT: (TO REMAIN)

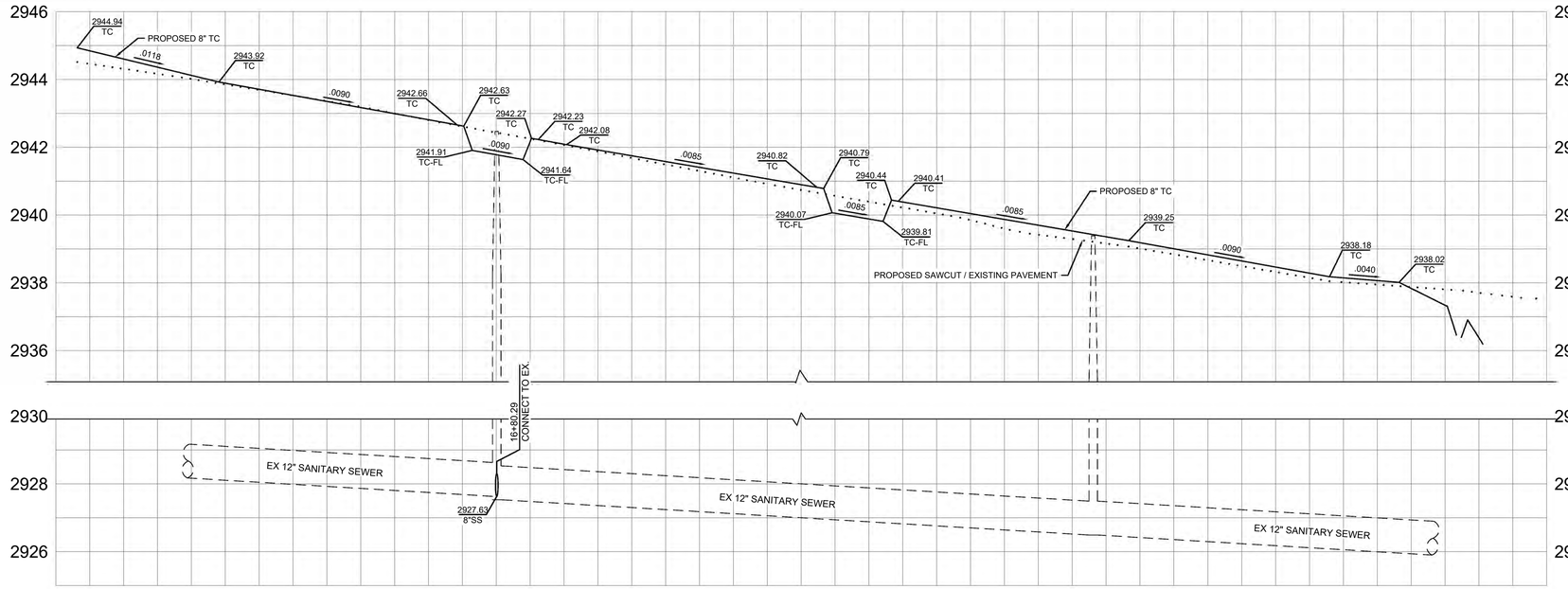
EXISTING CONCRETE: (TO BE REMOVED)

EXISTING PAVEMENT: (TO BE REMOVED)

SAWCUT LINE

CITY STANDARD KEYNOTES: (PER COV STD DETAIL ⟨X-##⟩)

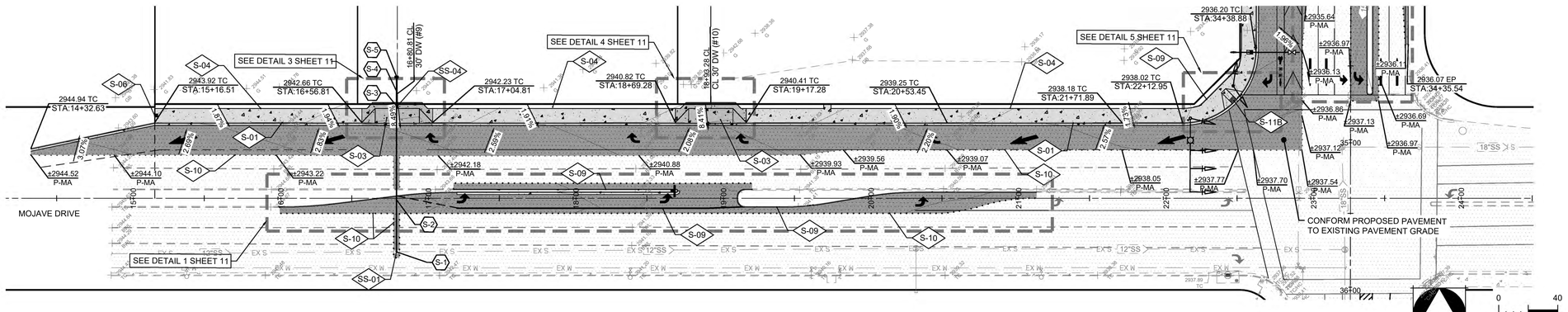
- S-01 CONSTRUCT COV STD 8" VERTICAL CURB & GUTTER
- S-03 CONSTRUCT COV STD COMMERCIAL DRIVEWAY (TYPE 2)
- S-04 CONSTRUCT COV STD COMMERCIAL SIDEWALK
- S-06 CONSTRUCT COV STD BARRICADE
- S-09 CONSTRUCT COV STD 8" VERTICAL CURB
- S-10 TRENCH, BACKFILL, & PAVEMENT REPAIR PER COV STD
- S-11B CONSTRUCT CURB RAMP
- SS-01 CONNECT TO EX. SANITARY SEWER MANHOLE
- SS-04 CONSTRUCT COV STD SEWER CLEANOUT



CONSTRCUTION KEYNOTES: ⟨#⟩

- S-1 CONNECT TO EX. SSMH
  EX. RIM = 2942.47
  6" INV. = 2927.63 (N)
  EX. 12" INV. = 2927.53 (E)
  EX. 12" INV. = 2927.63 (W)
- S-2 INSTALL 99 LF 6" SEWER S = 0.0050
- S-3 SSCO
  RIM = 2942.64
  6" INV. = 2928.13
- S-4 INSTALL 20 LF 6" SEWER S = 0.0050
- S-5 PIPE STUB
  6" INV. = 2928.23

PROFILE SCALE
1" = 40' HORIZONTAL
1" = 1' VERTICAL

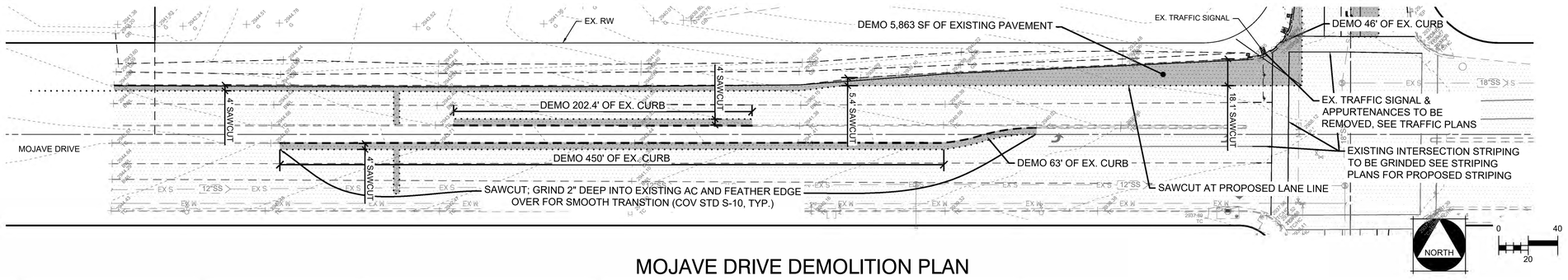


MOJAVE DRIVE IMPROVEMENTS

EXISTING		PROPOSED	
XXX.+	EXISTING GROUND	XX.XX (DESC.) / STA: XX+XX.XX	ELEVATION
X.XX%	SLOPE	X.XX%	SLOPE
	N/A	####	DIRECTION OF FLOWLINE
	CONTOURS (1')		CONTOURS (1')
			TRUNCATED DOMES

GRADING NOTES:

1. MAX 2% CROSS SLOPE ACROSS DRIVEWAYS
2. PROVIDE CONCRETE WALK EACH SIDE OF DRIVEWAY AS SHOWN. DIRECTION OF TRAVEL SLOPE SHALL NOT EXCEED 8.33% AND CROSS SLOPE NOT TO EXCEED 2%.
3. SAWCUT AND REMOVE CONCRETE CURBS AND PAVEMENT AS NECESSARY.
4. PAVEMENT CONFORM TRANSITION NOT TO EXCEED 1:12.



MOJAVE DRIVE DEMOLITION PLAN

Know what's below. Call before you dig. 811 / 800-227-2600

DEVELOPER.:	MIKE SATER
ADDRESS:	683 CLIFFSIDE DR
CITY/STATE:	SAN DIMAS, CA 91773
PHONE #:	(909) 293-7588

REGISTERED PROFESSIONAL ENGINEER ROBERT B. MARLER No. C70159 EXP. 9-30-22 CIVIL STATE OF CALIFORNIA

APPROVED:

JOB NO.:	20-082
DATE:	1/20/2021
SCALE:	AS SHOWN
DR. BY:	DB
CK. BY:	RM
ADDRESS:	MOJAVE DRIVE & EL EVADO

MCR ENGINEERING
www.mcreng.com
1242 DUPONT COURT
MANTECA, CA 95336
TEL : (209) 239 - 6229
FAX : (209) 239 - 8839

REVISIONS

No.	Description	Date	Approved

CITY OF VICTORVILLE CALIFORNIA

CITY CASE NO. (to be assigned at plan submittal)

CITY OF VICTORVILLE
ENGINEERING DEPARTMENT
14343 Civic Drive, Victorville, CA 92392 (760) 955-5000

Approved By:

Brian W. Gengler, RCE C44730
City Engineer

DATE

IMPROVEMENT PLANS FOR:

VICTORVILLE MOJAVE OFF-SITE

MOJAVE DRIVE

CITY OF VICTORVILLE

SHEET NO.

9

OF 12 SHEET

PAVEMENT SECTIONS:

PER SOILS REPORT

ASPHALT PAVEMENT: (EL EVADO ROAD)
- 7.0" A.C OVER 10" A.B. (TI=12.0)

HEAVY TRAFFIC CONCRETE: (DRIVEWAYS)
- PER C.O.V. STD S-03 (TYPE 2)
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LIGHT TRAFFIC CONRETE: (SIDEWALKS)
- PER C.O.V. STD S-04

EXISTING CONCRETE: (TO REMAIN)

EXISTING PAVEMENT: (TO REMAIN)

EXISTING CONCRETE: (TO BE REMOVED)

EXISTING PAVEMENT: (TO BE REMOVED)

SAWCUT LINE

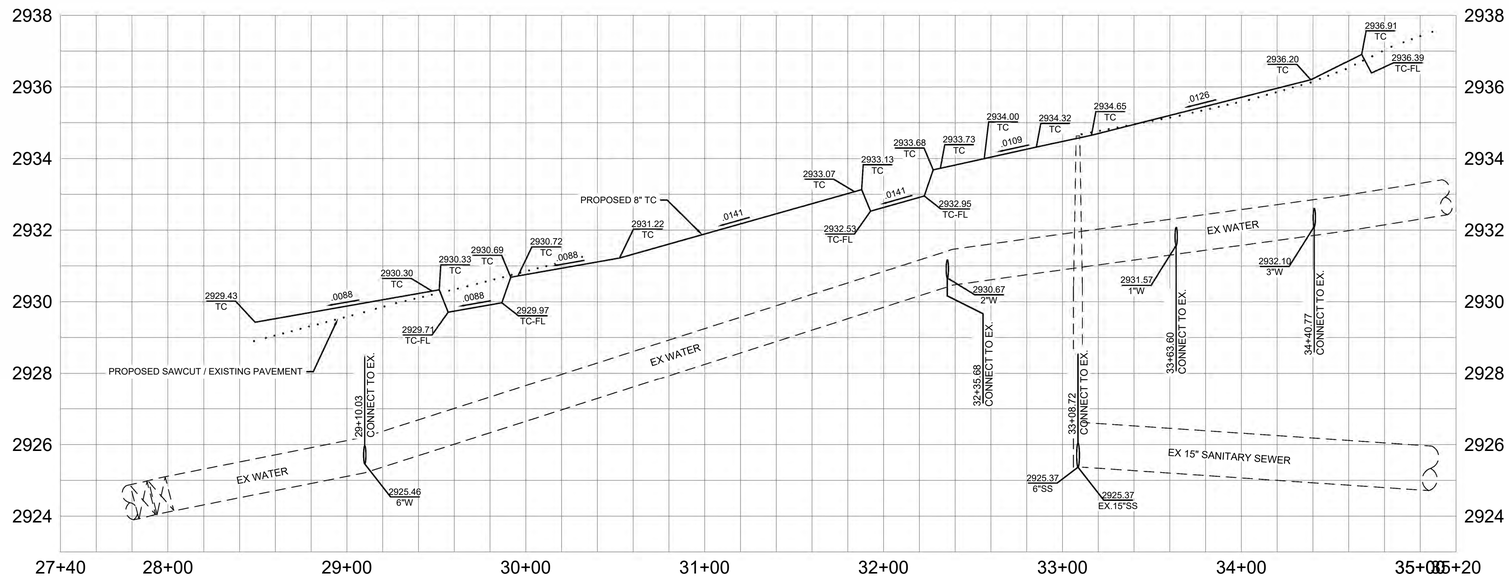
CITY STANDARD KEYNOTES: (PER COV STD DETAIL X-##)

- S-01 CONSTRUCT COV STD 8" VERTICAL CURB & GUTTER
- S-01 CONSTRUCT COV STD 8" VERTICAL CURB & GUTTER
- S-04 CONSTRUCT COV STD COMMERCIAL SIDEWALK
- S-07 CONSTRUCT COV STD CLEANOUT
- S-09 CONSTRUCT COV STD 8" VERTICAL CURB
- S-10 TRENCH, BACKFILL, & PAVEMENT REPAIR PER COV STD
- S-11B CONSTRUCT CURB RAMP
- SS-01 CONNECT TO EX. SANITARY SEWER MANHOLE
- SS-04 CONSTRUCT COV STD SEWER CLEANOUT
- W-01 CONSTRUCT 1" WATER SERVICE AND METER
- W-03 CONSTRUCT 1-1/2" WATER SERVICE AND METER
- W-11 CONSTRUCT COV STD FIRE HYDRANT
- W-13 TYPICAL FIRE HYDRANT PAVEMENT MARKER LOCATION
- W-15 CONSTRUCT COV TEMPORARY BLOW-OFF
- W-21 CONNECT TO EX. WATER, HOT TAP PER COV STD
- W-28 CONSTRUCT FIRE SERVICE RPDA PER COV STD
- W-39 CONSTRUCT 2" (MAX) DOMESTIC SERVICE RPBD PER COV STD

EXISTING		PROPOSED	
XX.XX / XX	ELEVATION	XX.XX / XX	ELEVATION
X.XX%	SLOPE	X.XX%	SLOPE
XXX	EXISTING GROUND	####	DIRECTION OF FLOWLINE
	CONTOURS (1')		CONTOURS (1')
			TRUNCATED DOMES

GRADING NOTES:

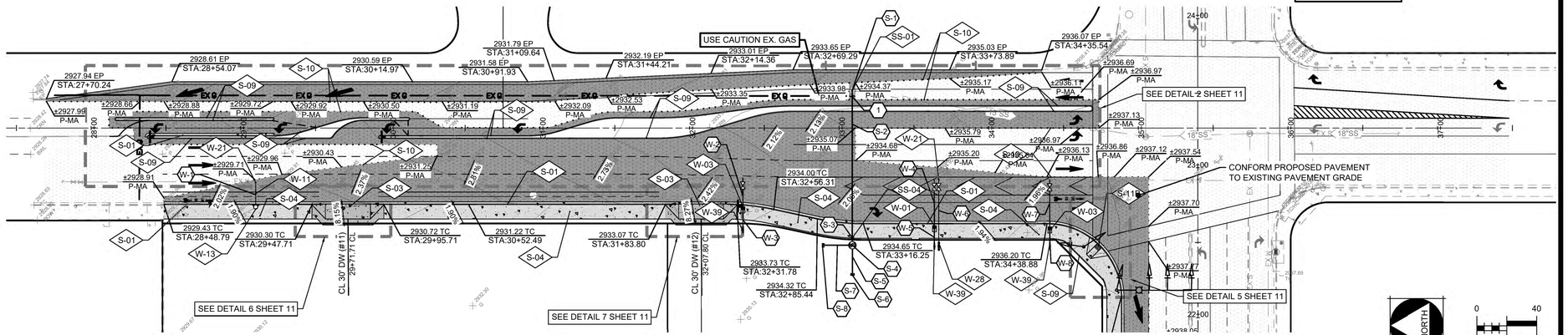
1. MAX.2% CROSS SLOPE ACROSS DRIVEWAYS
2. PROVIDE CONCRETE WALK EACH SIDE OF DRIVEWAY AS SHOWN. DIRECTION OF TRAVEL SLOPE SHALL NOT EXCEED 8.33% AND CROSS SLOPE NOT TO EXCEED 2%.
3. SAWCUT AND REMOVE CONCRETE CURBS AND PAVEMENT AS NECESSARY.
4. PAVEMENT CONFORM TRANSITION NOT TO EXCEED 1:12.



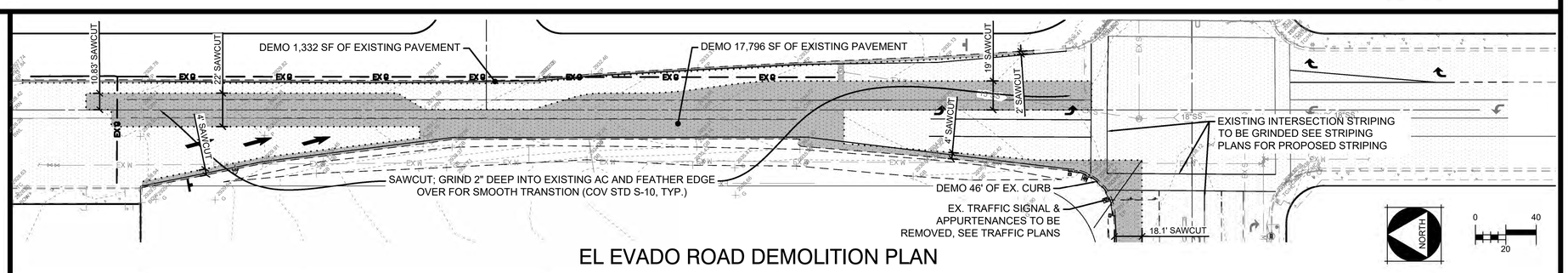
CONSTRCUTION KEYNOTES: (#)

- 1 USE CAUTION GAS CROSSING
- S-1 CONNECT TO EX. SSMH
  RIM = 2934.63
  EX. 15" INV. = 2925.37 (S)
  6" INV. = 2925.37 (W)
- S-2 INSTALL 99 LF 6" SEWER S = 0.0050
- S-3 SSCO
  RIM = 2934.71
  6" INV. = 2925.87
- S-4 SSMH
  RIM = 2934.81
  6" INV. = 2925.89 (E)
  6" INV. = 2927.89 (W)
  6" INV. = 2925.89 (N)
- S-5 INSTALL 20 LF 6" SEWER S = 0.0050
- S-6 INSTALL PIPE STUB
  6" INV. = 2928.29
- S-7 INSTALL 20 LF 6" SEWER S = 0.0050
- S-8 INSTALL PIPE STUB
  6" INV. = 2925.99
- W-1 INSTALL 16 LF 6" FIRE SERVICE
- W-2 INSTALL 19 LF 2" DOMESTIC SERVICE
- W-3 INSTALL 9 LF 2" DOMESTIC SERVICE
- W-4 INSTALL 31 LF 1" DOMESTIC SERVICE
- W-5 INSTALL 8 LF 1" DOMESTIC SERVICE
- W-6 INSTALL 42 LF 8" FIRE SERVICE
- W-7 INSTALL 32 LF 3" DOMESTIC SERVICE
- W-8 INSTALL 7 LF 3" DOMESTIC SERVICE

PROFILE SCALE
1" = 40' HORIZONTAL
1" = 1' VERTICAL



EL EVADO ROAD IMPROVEMENTS



EL EVADO ROAD DEMOLITION PLAN

811 Know what's below. Call before you dig. 811 / 800-227-2600

DEVELOPER.:	MIKE SATER
ADDRESS:	683 CLIFFSIDE DR
CITY/STATE:	SAN DIMAS, CA 91773
PHONE #:	(909) 293-7588

REGISTERED PROFESSIONAL ENGINEER ROBERT B. MARLER No. C70159 EXP. 9-30-22 CIVIL STATE OF CALIFORNIA

APPROVED:

JOB NO.:	20-082
DATE:	1/20/2021
SCALE:	AS SHOWN
DR. BY:	DB
CK. BY:	RM
ADDRESS:	MOJAVE DRIVE & EL EVADO

MCR ENGINEERING
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1242 DUPONT COURT
MANTECA, CA 95336
TEL : (209) 239 - 6229
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REVISIONS

No.	Description	Date	Approved

CITY OF VICTORVILLE CALIFORNIA

CITY CASE NO. (to be assigned at plan submittal)

CITY OF VICTORVILLE
ENGINEERING DEPARTMENT
14343 Civic Drive, Victorville, CA 92392 (760) 955-5000

Approved By:

Brian W. Gengler, RCE C44730
City Engineer

DATE

IMPROVEMENT PLANS FOR:

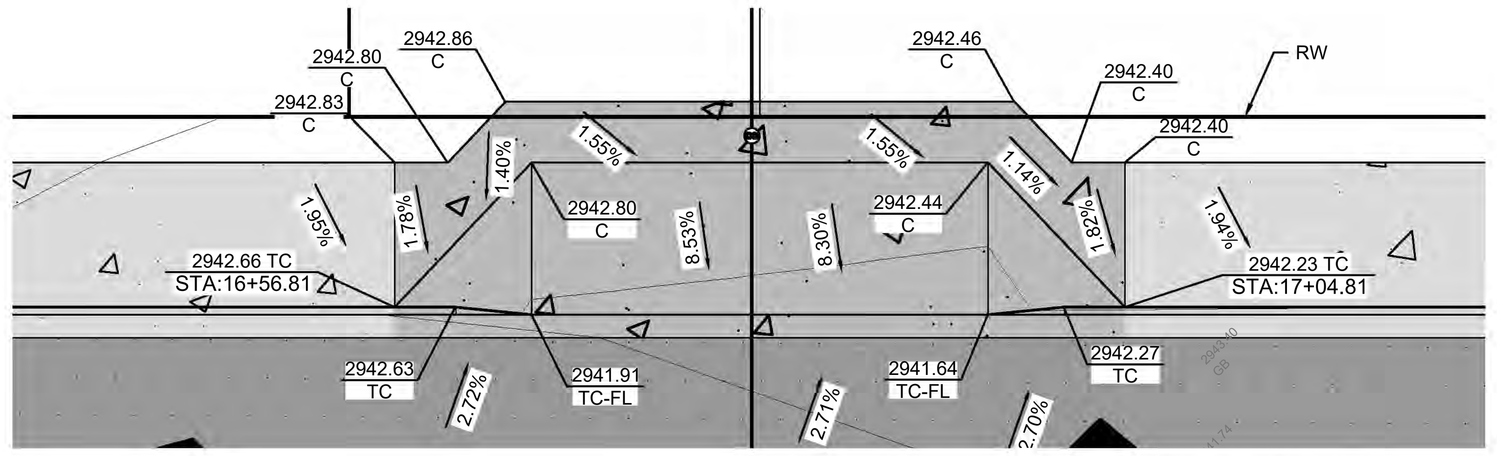
VICTORVILLE MOJAVE OFF-SITE

EL EVADO ROAD

CITY OF VICTORVILLE

SHEET NO. **10**

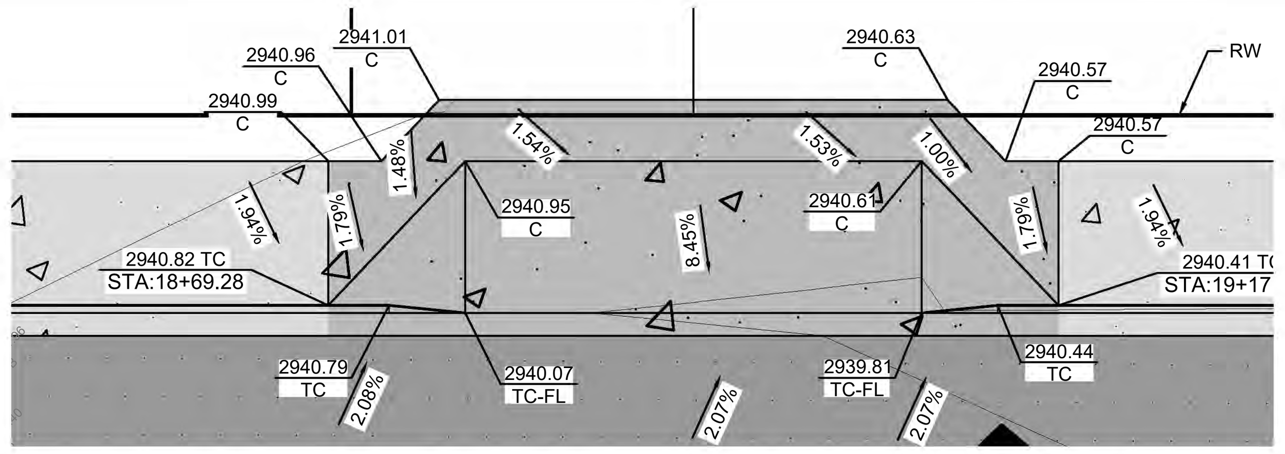
OF 12 SHEET



3 DRIVEWAY #9 DETAIL

SCALE: 1" = 10'

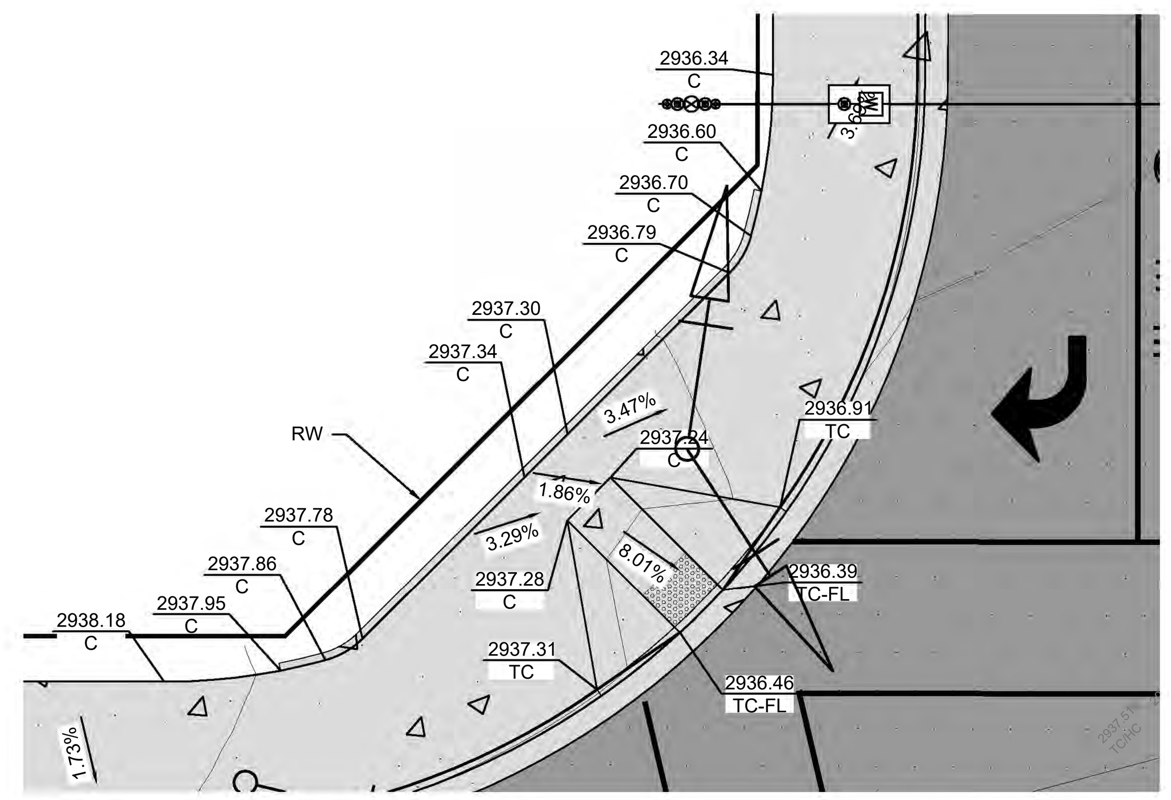
NORTH



4 DRIVEWAY #10 DETAIL

SCALE: 1" = 10'

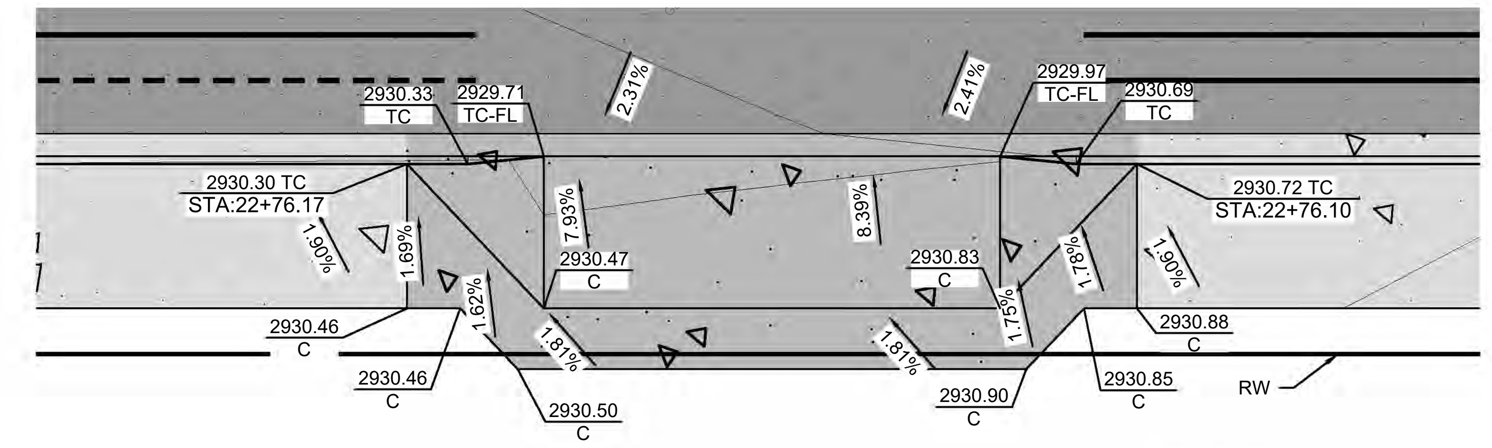
NORTH



5 MOJAVE & EL EVADO RAMP

SCALE: 1" = 10'

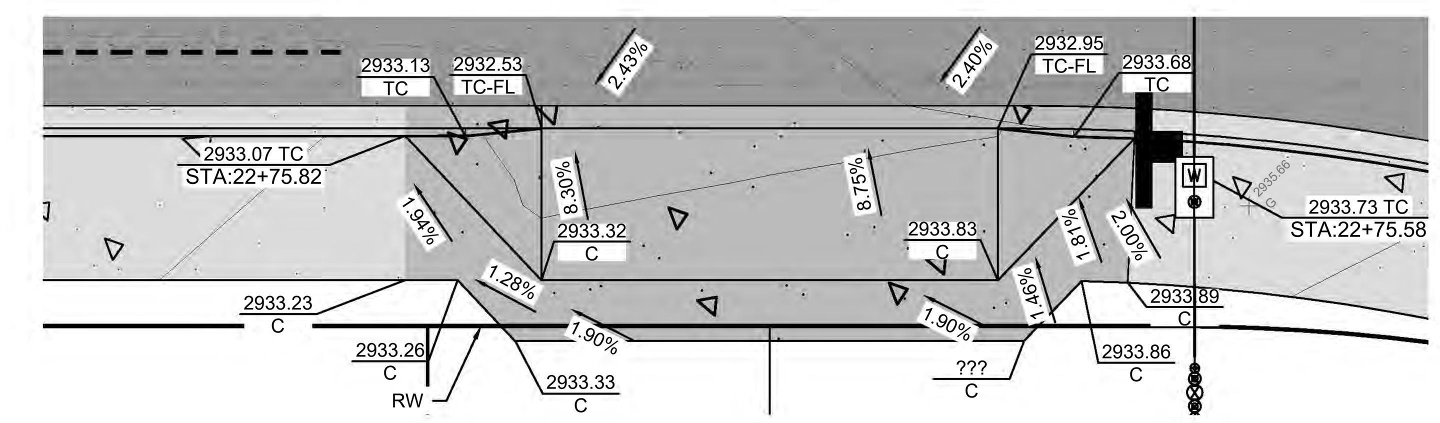
NORTH



6 DRIVEWAY #11 DETAIL

SCALE: 1" = 10'


NORTH



7 DRIVEWAY #12 DETAIL

SCALE: 1" = 10'

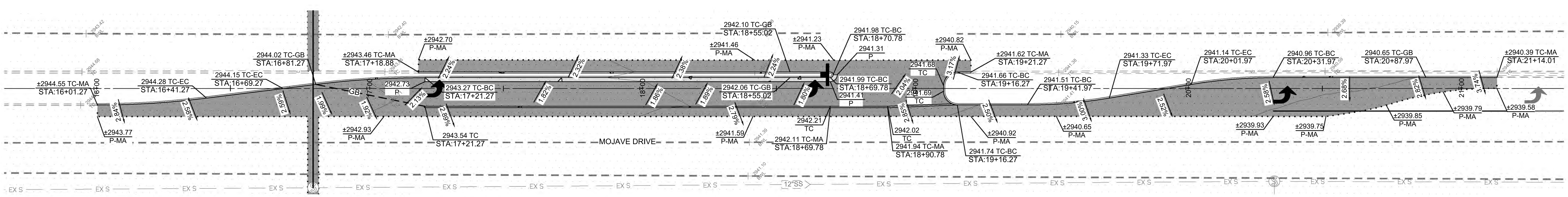
NORTH



2 MEDIAN 2 & 3 DETAIL

SCALE: 1" = 20'

NORTH



1 MEDIAN 1 DETAIL

SCALE: 1" = 20'

NORTH

811
Know what's **below.**
Call before you dig.
811 / 800-227-2600

DEVELOPER.: MIKE SATER
ADDRESS: 683 CLIFFSIDE DR
CITY/STATE: SAN DIMAS, CA 91773
PHONE #: (909) 293-7588

REGISTERED PROFESSIONAL ENGINEER
ROBERT B. MARLER
No. C70159
EXP. 9-30-22
CIVIL
STATE OF CALIFORNIA

APPROVED:

JOB NO.:	20-082
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DR. BY:	DB
CK. BY:	RM
ADDRESS:	MOJAVE DRIVE & EL EVADO

MCR ENGINEERING
www.mcreng.com
1242 DUPONT COURT
MANTECA, CA 95336
TEL: (209) 239 - 6229
FAX: (209) 239 - 8839

REVISIONS

No.	Description	Date	Approved

CITY OF VICTORVILLE INCORPORATED SEPT. 21, 1962 HOME OF THE SAN BERNARDINO COUNTY FAIR CALIFORNIA

CITY CASE NO. (to be assigned at plan submittal)

CITY OF VICTORVILLE ENGINEERING DEPARTMENT
14343 Civic Drive, Victorville, CA 92392 (760) 955-5000

Approved By:

Brian W. Gengler, RCE C44730
City Engineer

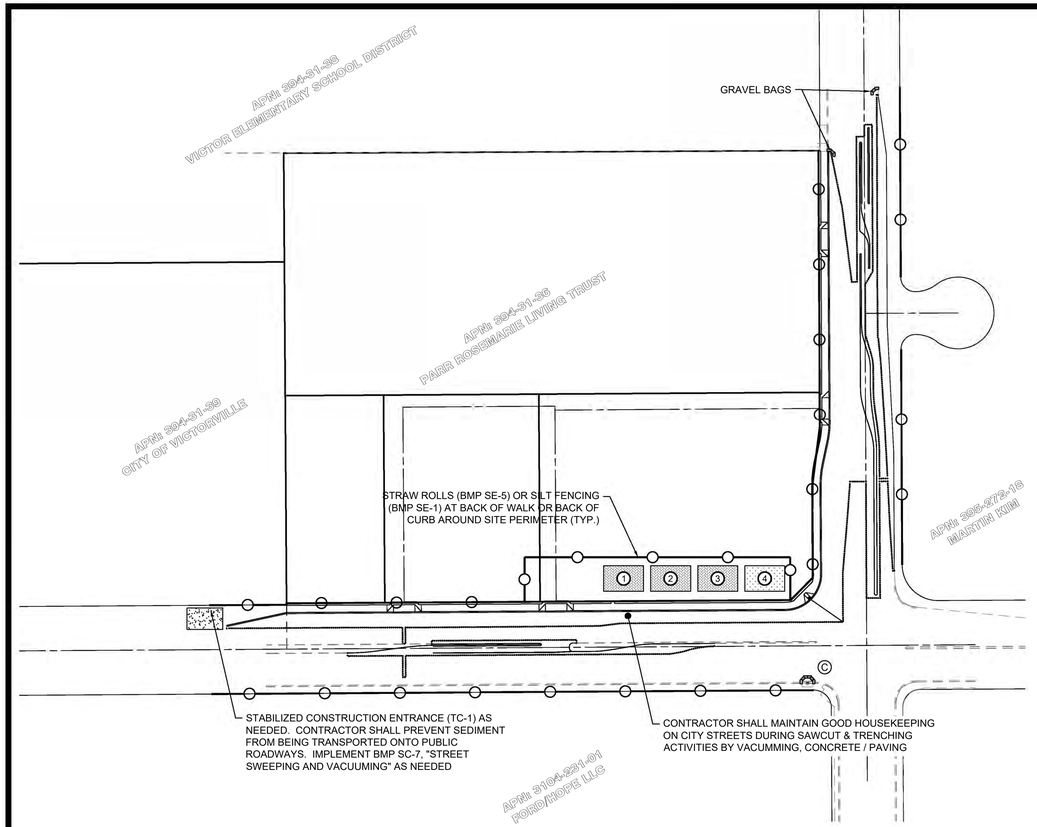
DATE

IMPROVEMENT PLANS FOR:

VICTORVILLE MOJAVE OFF-SITE GRADING DETAILS

CITY OF VICTORVILLE

SHEET NO. 11 OF 12 SHEET

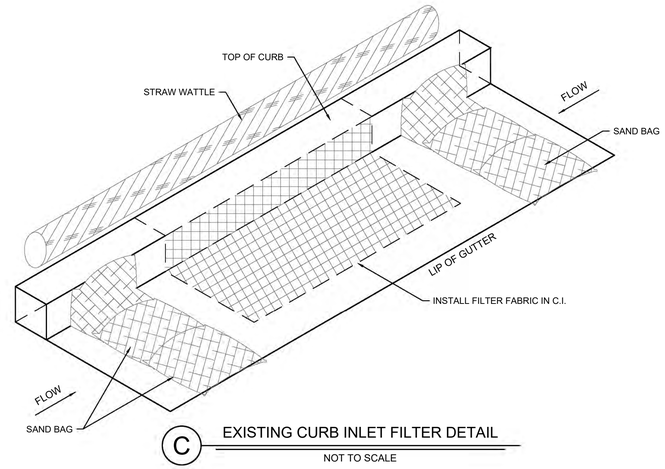


SITE PLAN

SCALE: 1" = 100'

STORM DRAIN INLET FILTER BAG

1. GRAVEL BAGS SHALL BE WOVEN GEOTEXTILE FABRIC
2. CONSTRUCT ON GENTLY SLOPING STREETS WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE OUT OF SUSPENSION.
3. LEAVE A GAP OF ONE BAG IN THE MIDDLE OF THE TOP ROW OF BAGS TO SERVE AS THE SPILLWAY. SPILLWAY HEIGHT SHALL BE LOWER THAN CURB HEIGHT & SUFFICIENT IN SIZE TO PASS FLOWS FROM SEVERE STORM EVENT.
4. PLACE 2 LAYERS OF GRAVEL BAGS OVER LAPPING BAGS AND PACK THEM TIGHTLY TOGETHER TO MINIMIZE THE SPACE BETWEEN BAGS. FILL BAG WITH 1/4" PEA GRAVEL
5. INSPECT & REPAIR FILTERS AFTER EA. STORM EVENT. REMOVE SEDIMENT WHEN 1/2 OF THE FILTER DEPTH HAS BEEN FILLED. REMOVED SEDIMENT SHALL BE DEPOSITED IN AN AREA TRIBUTARY TO A SEDIMENT BASIN OR OTHER FILTERING MEASURE.
6. SEDIMENT & GRAVEL SHALL BE IMMEDIATELY REMOVED FROM TRAVELED WAY OF ROAD.
7. GRAVEL BAG INLET PROTECTION ON ROADS OPEN TO PUBLIC WILL REQUIRE DELINEATION DEVICES TO ALERT MOTORISTS, BICYCLISTS AND PEDESTRIANS. THE USE OF SUCH DEVICES SHALL BE SUBJECT TO THE RESIDENT ENGINEERS APPROVAL.

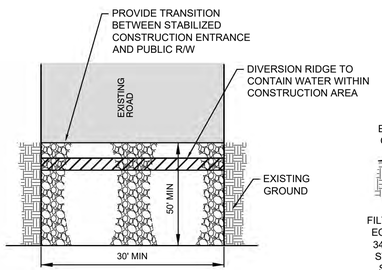


C EXISTING CURB INLET FILTER DETAIL

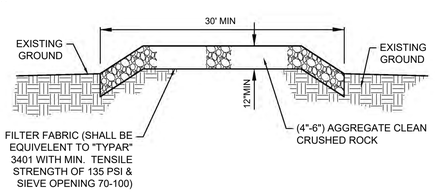
NOT TO SCALE

EROSION CONTROL PLAN GENERAL NOTES

1. PLACEMENT FOR EROSION CONTROL IS REQUIRED FOR GRADING OPERATIONS DURING THE RAINY SEASON (OCTOBER 15TH TO APRIL 15TH).
2. THE DESIGN CIVIL ENGINEER SHALL SUPERVISE EROSION CONTROL WORK AND INSURE THAT WORK IS IN ACCORDANCE WITH THE APPROVED GRADING PLAN (IF REQUIRED).
3. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES. NECESSARY MATERIALS SHALL BE MADE AVAILABLE ON SITE AND STOCKPILES AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
4. DEVICES SHALL NOT BE MOVED WITHOUT THE APPROVAL OF THE CITY BUILDING OFFICIAL.
5. ALL REMOVABLE PROTECTIVE DEVICES SHOWN ON THE EROSION CONTROL PLAN SHALL BE IN PLACE AT THE END OF EACH DAY WHEN THE FIVE DAY RAIN PROBABILITY FORECAST EXCEEDS FORTY PERCENT (40%).
6. AFTER A RAINSTORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM CHECK BERMS, SILT FENCES, DESILTING BASINS AND THE BASINS PUMPED DRY.
7. GRADED WORK AREAS AROUND THE PROJECT AT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
8. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATER CREATES HAZARDOUS CONDITIONS.
9. DE-SILTING BASINS ARE TO BE CONSTRUCTED AS GRADING OF INDIVIDUAL GRADING AREAS ARE COMPLETE PER ROUGH GRADING PLANS.
10. TEMPORARY EROSION PROTECTION IS REQUIRED FOR MANUFACTURED SLOPES PRIOR TO PERMANENT PLANTING. ALL SLOPES EXCEEDING THREE FEET IN HEIGHT SHALL USE A PLANTING MIX FOR BASIC EROSION CONTROL IF NOT AND LANDSCAPED IMMEDIATELY FOLLOWING GRADING BASIC EROSION CONTROL MIX:
    A. LBS. /ACRES SPECIES PURITY PLS.
    B. 20.0 BROMIIS MOLLIS 95/89 81%
    C. 30.0 TRIFOLIUM HIRUM 95/85 81%
    D. 8.0 VULPIA 90/80 72%
11. ALL AREAS SHALL BE MAINTAINED SUCH THAT EMERGENCY RESPONSE VEHICLES HAVE ACCESS. (INCLUDING ACCESS TO NEIGHBORING PROPERTY). IN CASE OF EMERGENCY CONTACT _____ OF _____ AT _____.
12. NO OBSTRUCTION OR DISTURBANCE OF NATURAL DRAINAGE COURSES OR EXISTING STORM DRAIN INLETS SHALL OCCUR DURING THE RAINY SEASON UNLESS ADEQUATE TEMPORARY/PERMANENT DRAINAGE FACILITIES HAVE BEEN APPROVED AND INSTALLED TO CARRY SURFACE WATER TO THE STREET, STORM DRAIN OR NATURAL WATER COURSES.
13. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER THAT THE STORM RUN-OFF WILL BE CONTAINED WITHIN THE PROJECT OR CHANNELED INTO THE STORM DRAIN SYSTEM THAT SERVES THE RUN-OFF AREA. STORM RUN-OFF FROM ONE AREA SHALL NOT BE ALLOWED TO DIVERT INTO ANOTHER RUN-OFF AREA.
14. CONFORMANCE WITH THE EROSION CONTROL PLAN DOES NOT RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TO PROTECT THE ADJACENT PROPERTIES FROM POSSIBLE DAMAGE THAT MAY ARISE AS A RESULT OF THE CONSTRUCTION OF THIS PROJECT. EROSION CONTROL SHALL CONSIST OF, BUT NOT BE LIMITED TO, CONSTRUCTING SUCH FACILITIES AND ANY OTHER MEASURES THAT ARE NECESSARY TO PREVENT, CONTROL AND ABATE WATER, MUD AND EROSION DAMAGE TO PUBLIC AND PRIVATE PROPERTY AS A RESULT OF THE CONSTRUCTION OF THIS PROJECT.
15. SLOPES CONSTRUCTED PRIOR TO OCTOBER 1ST SHALL BE TREATED FOR EROSION CONTROL PRIOR TO OCTOBER 15TH. SLOPES CONSTRUCTED AFTER OCTOBER 1ST SHALL BE TREATED FOR EROSION CONTROL AS THE CONSTRUCTION OF SLOPES PROGRESSES IN INCREMENTS OF TWENTY FIVE FEET (25') OR LESS MEASURED VERTICALLY.
16. FILL AREAS, WHILE BEING BROUGHT UP TO GRADE AND DURING PERIODS OF COMPLETION PRIOR TO FINAL GRADE, SHALL BE PROTECTED BY VARIOUS MEASURES TO ELIMINATE EROSION AND THE SILTATION OF DOWNSTREAM FACILITIES AND ADJACENT AREAS. THE MEASURE MAY INCLUDE, BUT MAY NOT BE LIMITED TO: TEMPORARY DOWN-DRAINS, EITHER IN THE FORM OF PIPES OR PAVED DITCHES WITH PROTECTED OUTFALL AREAS; GRADED BERMS AROUND AREAS TO ELIMINATE EROSION OF FILL SLOPES BY SURFACE RUN-OFF; CONFINED PONDING AREAS TO DESILT RUN-OFF; PROTECTION SUCH AS SAND BAGS AROUND INLETS WHICH HAVE NOT BEEN BROUGHT UP TO GRADE; AND EARTH BERMS AND APPROPRIATE GRADING TO DIRECT DRAINAGE AWAY FROM THE EDGE OF THE TOP OF THE SLOPES SHALL BE CONSTRUCTED AND MAINTAINED IN FILL AREAS WHERE EARTHWORK OPERATIONS ARE IN PROGRESS.
17. TOP OF CUTOFF BROW DITCHES, WHERE REQUIRED ON THE PLANS, SHALL BE CONSTRUCTED PRIOR TO EXCEEDING TWELVE FEET (12') OF CUT, MEASURED VERTICALLY.
18. CLEARING AND GRUBBING SHALL BE LIMITED TO AREAS THAT WILL RECEIVE IMMEDIATE GRADING. EROSION CONTROL MEASURES WILL BE REQUIRED TO PROTECT AREAS WHICH HAVE BEEN CLEARED AND GRUBBED PRIOR TO GRADING OPERATIONS AND WHICH ARE SUBJECT TO RUN-OFF DURING THE PERIOD OF RAINY SEASON. THESE MEASURES MAY INCLUDE, BUT NOT BE LIMITED TO. GRADED DITCHES, BRUSH BARRIERS AND SILT FENCES. CARE SHALL BE EXERCISED TO PRESERVE VEGETATION BEYOND THE LIMITS OF GRADING.
19. AT THE COMPLETION OF ROUGH GRADING, BUT DURING UNDERGROUND UTILITY INSTALLATION, EROSION CONTROL DEVICES MAY NOT BE PLACED IN AREAS OF ACTIVE CONSTRUCTION BUT SHALL BE AVAILABLE ON SITE. WHEN THE THREE DAY RAIN PROBABILITY EXCEEDS FORTY PERCENT (40%), EROSION CONTROL MEASURES SHALL BE IMPLEMENTED.
20. AT THE COMPLETION OF STREET PAVING, A MINIMUM OF TWO (2) SANDBAGS HIGH, SHALL BE PLACED IN ACCORDANCE WITH ONE OF THE FOLLOWING ALTERNATIVES:
    A. SANDBAG VELOCITY REDUCERS, A MINIMUM OF TWO (2) SANDBAGS HIGH HALL BE PLACED AT AN ANGLE OF FORTY-FIVE DEGREES (45%) WITH THE CURB AND SHALL BEGIN AT THE CURB AND EXTEND A DISTANCE OF EIGHT FEET (8') FROM THE CURB, MEASURED PERPENDICULAR TO THE CURB. THE DISTANCE BETWEEN THE VELOCITY REDUCERS SHALL BE AS FOLLOWS: STREET GRADE BEING FOUR PERCENT (4%) OR LESS SHALL BE SPACED AT A MAXIMUM OF TWO HUNDRED FEET (200'); STREET GRADE BEING BETWEEN FOUR PERCENT (4%) AND NINE PERCENT (9%) SHALL HAVE A MAXIMUM SPACING OF ONE HUNDRED FEET (100'); AND STREET GRADES GREATER THAN NINE PERCENT (9%) SHALL HAVE A MAXIMUM SPACING OF FIFTY FEET (50').
    B. PROVIDE EROSION CONTROL ON INDIVIDUAL LOTS AND IN THE PARKWAY AND CONTINUOUS PLACEMENT OF SANDBAGS ALONG THE TOP OF THE CURB.
21. APPROVAL OF THESE PLANS DOES NOT RELIEVE THE DEVELOPER FROM RESPONSIBILITY FOR THE CORRECTION OF ERROR AND OMISSION DISCOVERED DURING CONSTRUCTION. UPON REQUEST, THE REQUIRED PLAN REVISIONS SHALL BE PROMPTLY SUBMITTED TO THE CITY OF VICTORVILLE FOR APPROVAL.
22. A GUARD TO INSURE PUBLIC SAFETY WILL BE POSTED ON THE SITE WHENEVER THE DEPTH OF WATER IN ANY DEVICE EXCEEDS TWO FEET (2').
23. ALL DETAILS REFERENCED ARE PER CASQA 2015 BMP HANDBOOK.
24. WASTE DISCHARGE IDENTIFICATION NUMBER (WDID): PENDING
25. 24 HOUR EMERGENCY CONTACT MIKE SATER AT (909) 293-7588



PLAN VIEW



PROFILE VIEW

1 STABILIZED CONSTRUCTION ENTRANCE (TC-1)

NOT TO SCALE

LEGEND

- STABILIZED CONSTRUCTION ENTRANCE
- STRAW ROLLS (SE-5)
- 1 DESIGNATED ENTRANCE/OUTLET TIRE WASH (TC-3)
- 2 DESIGNATED VEHICLE MAINTENANCE AREA (NS-8, NS-9, NS-10)
- 3 DESIGNATED CONCRETE WASHOUT AREA (WM-8)
- 4 DESIGNATED JOB TRAILER & LAYDOWN AREA (WM-1)
- EXISTING CURB INLET
- CURB INLET
- CATCH BASIN
- C EXISTING. CURB INLET SEDIMENT PROTECTION (SE-10, SEE DETAIL C)
- GRAVEL BAGS

STABILIZED CONSTRUCTION ENTRANCE

1. THE MATERIAL FOR CONSTRUCTION OF THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE 4 TO 6 INCH STONE.
2. THE THICKNESS OF THE PAD SHALL NOT BE LESS THAN 12 INCHES.
3. THE WIDTH OF THE PAD SHALL NOT BE LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS, OR 30' MIN.
4. THE LENGTH OF THE PAD SHALL BE AS REQUIRED, BUT NOT LESS THAN 50 FEET.
5. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY SHALL BE REMOVED IMMEDIATELY.
6. WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP, OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF SANDBAGS, GRAVEL, BOARDS, OR OTHER APPROVED METHODS.
7. CONTRACTOR TO REMOVE AND DISPOSE OF STABILIZED CONSTRUCTION ENTRANCE UPON COMPLETION OF CONSTRUCTION.

811 Know what's below. Call before you dig. 811 / 800-227-2600

DEVELOPER.: MIKE SATER
ADDRESS: 683 CLIFFSIDE DR
CITY/STATE: SAN DIMAS, CA 91773
PHONE #: (909) 293-7588

REGISTERED PROFESSIONAL ENGINEER ROBERT B. MARLER No. C70159 EXP. 9-30-22 CIVIL STATE OF CALIFORNIA

APPROVED: _____

JOB NO.: 20-082
DATE: 1/20/2021
SCALE: AS SHOWN
DR. BY: DB
CK. BY: RM
ADDRESS: MOJAVE DRIVE & EL EVADO

MCR ENGINEERING
www.mcreng.com
1242 DUPONT COURT
MANTECA, CA 95336
TEL : (209) 239 - 6229
FAX : (209) 239 - 8839

REVISIONS

No.	Description	Date	Approved

CITY OF VICTORVILLE INCORPORATED SEAL OF 1969 SAN BERNARDINO COUNTY CALIFORNIA

CITY CASE NO. (to be assigned at plan submittal)

CITY OF VICTORVILLE
ENGINEERING DEPARTMENT
14343 Civic Drive, Victorville, CA 92392 (760) 955-5000

Approved By:

Brian W. Gengler, RCE C44730
City Engineer

DATE

IMPROVEMENT PLANS FOR:
VICTORVILLE MOJAVE OFF-SITE
EROSION CONTROL PLAN
CITY OF VICTORVILLE

SHEET NO. 12

OF 12 SHEET

Paint Sample Color

SW 6086 "SAND DUNE"

Paint Sample Color

SW 6088 "NUTHATCH"

Paint Sample Color

SW 6083 "SABLE"



Cultered Stone Veneer

CHARDONNAY COUNTRY LEDGESTONE
BY BORAL. OR APPROVED EQUAL

Color / Material Samples For:

AutoZone Store # 4499

ELVADO & MOHAVE

VICTORVILLE, CA.