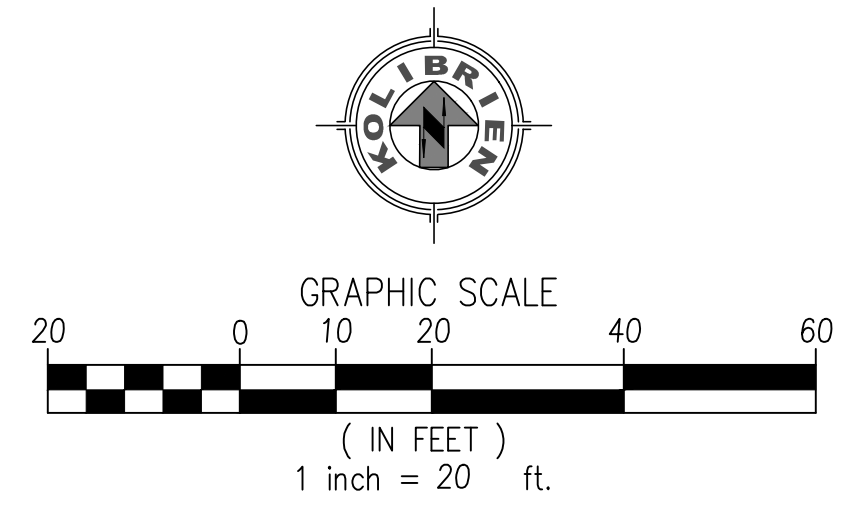


- CONSTRUCTION NOTES:**
- CONSTRUCT 3" AC PAVING OVER 6" CLASS II AGGREGATE BASE OVER COMPACTED SUBGRADE (95% RELATIVE COMPACTION) AND/OR PER GEOTECHNICAL RECOMMENDATIONS. SEE DETAIL 1 ON SHEET D-1.
 - CONSTRUCT 6" CURB AND GUTTER. SEE DETAIL 4 ON SHEET D-1.
 - CONSTRUCT 6" CURB. SEE DETAIL 2 ON SHEET D-1.
 - PRECAST CATCH BASIN. SEE DETAIL 15 ON SHEET D-1.
 - PAINT 4" WIDE WHITE TRAFFIC BEARING STRIPE (BLUE AT ACCESSIBILITY (2 COATS MIN.)) SEE DETAIL 18 ON SHEET D-2.
 - PAINT HANDICAP EMBLEM AND STRIPING PER DETAIL 20 ON SHEET D-3.
 - CONSTRUCT 4" THICK CONCRETE WALKWAY PER CITY STD. DWG S-04.
 - CONSTRUCT ACCESSIBLE RAMP PER DETAIL 16 ON SHEET D-2.
 - INSTALL TRUNCATED DOMES PER DETAIL 16 ON SHEET D-2.
 - CONSTRUCT 3FT VALLEY GUTTER PER DETAIL 5 ON SHEET D-1.
 - CONSTRUCT 12" WIDE "STEP-OFF" CONCRETE PER DETAIL 3 ON SHEET D-1.
 - INSTALL CONCRETE WHEEL STOP PER DETAIL 6 ON SHEET D-1.
 - CONSTRUCT CURB INLET PER DETAIL 7 ON SHEET D-1.
 - CONSTRUCT UNDERSIDEWALK CURB OUTLET PER DETAIL 12 ON SHEET D-1.
 - INSTALL ACCESSIBLE PARKING SIGN PER DETAIL 20 ON SHEET D-3.
 - INSTALL 6' TALL TUBULAR FENCE PER SEPARATE PERMIT.
 - INSTALL 6' TALL TUBULAR GATE PER SEPARATE PERMIT.
 - CONSTRUCT 6' TALL CMU WALL PER VICTORVILLE STD. DWG. PER DETAIL 21 ON SHEET D-3.
 - ONSITE LIGHT POLE FOUNDATION & ANCHORAGE PER DETAIL 23 ON SHEET D-3
 - CONSTRUCT ROOF DRAIN CURB CORE PER DETAIL 8 ON SHEET D-1.
 - CONSTRUCT BASIN RETAINING WALL/CURB PER DETAIL 22 ON SHEET D-3; N.A.P., ALL WALLS PER SEPARATE PERMIT.
 - CONSTRUCT 6" THICK STAMPED CONCRETE, $f_c=3500$ PSI $W/\#3$ BARS @18" O.C. BOTH WAYS



Date: 08 May 20 - 9:53 am
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 User: KOLIBRIEN

DIGALERT
 DIAL BEFORE YOU DIG
 TWO WORKING DAYS BEFORE YOU DIG
 TOLL FREE 811
 A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

MARK	BY	DATE	REVISIONS	APPR.	DATE

CITY CASE NO. **BLDC19-00180**
CITY OF VICTORVILLE
ENGINEERING DEPARTMENT
 14343 Civic Drive, Victorville, CA 92392 (760) 955-5000
 Approved By:
 Brian W. Gengler, RCE C44730
 City Engineer

SEAL-ENGINEER

 JOHN H. JOHNSON
 R.C.E. NO. 83934

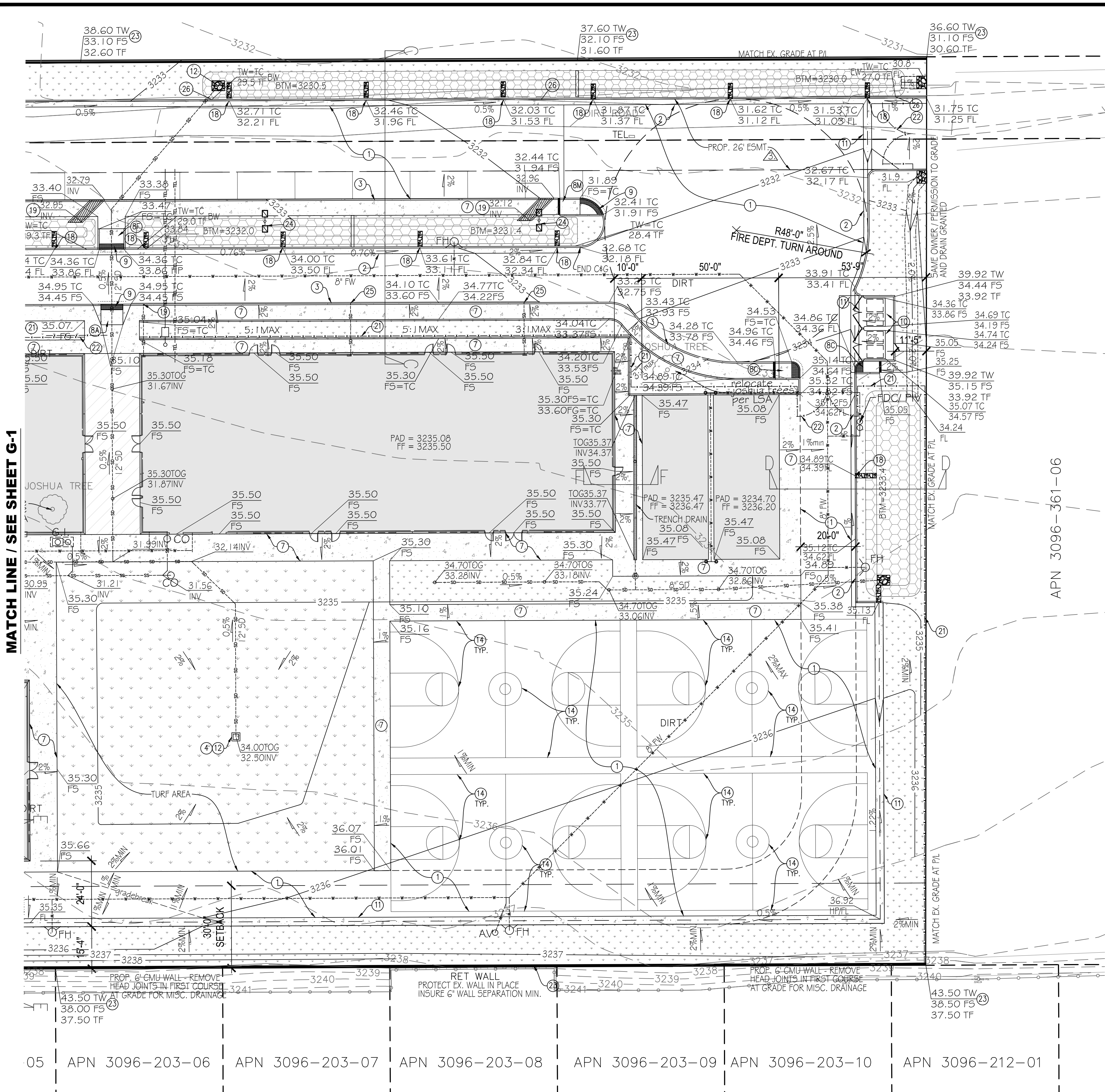
KOLIBRIEN
 CIVIL / STRUCTURAL / SURVEYING
 27919 JEFFERSON AVE., STE. 201, TEMECULA, CA 92590
 PHONE: (951) 252-1034 WEB: WWW.KOLIBRIEN.BIZ
 PREPARED BY:
 JOHN H. JOHNSON; R.C.E. NO. 83934 DATE: 03/05/2020

BENCHMARK:
 CITY OF VICTORVILLE BENCHMARK V-212.
 LA MESA RD. AND HIGHWAY 395; 146 FT EAST OF EAST EP OF HWY 395 AND 87 FT SOUTHWEST OF FIRE HYDRANT ELEVATION = 3248.52 (NAVD 29).

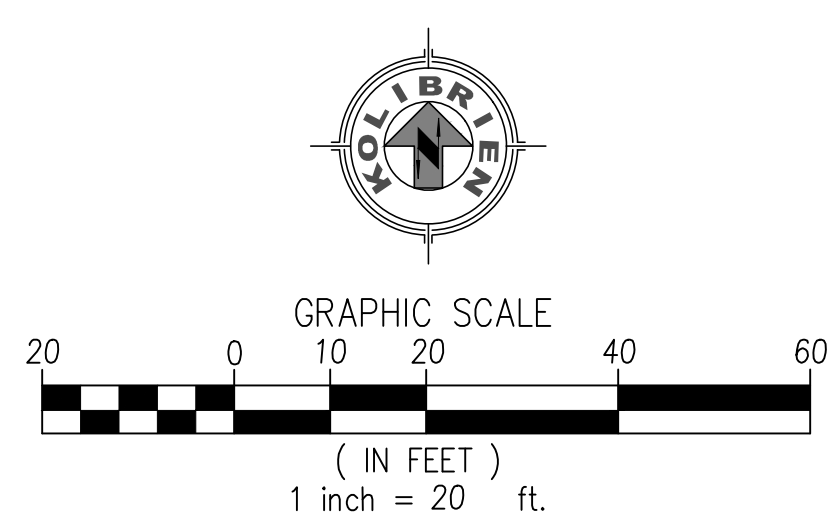
DRAWN PM&RD
 DESIGNED JJ
 CHECKED JJ
 SCALE AS NOTED
 JOB NUMBER D03002
 DATE 12-02-2019

BLDC19-00180
CITY OF VICTORVILLE
DESERT TRAILS PREPARATORY ACADEMY MIDDLE SCHOOL
ONSITE IMPROVEMENT PLANS
PRECISE GRADING PLAN
 FOR: DESERT TRAILS W.O. CITY JOB NO.

SHEET NO. **3**
 OF 16 SHEETS
 FILE NO. **G-1**



- CONSTRUCTION NOTES:**
- ① CONSTRUCT 3" AC PAVING OVER 6" CLASS II AGGREGATE BASE OVER COMPACTED SUBGRADE (95% RELATIVE COMPACTION) AND/OR PER GEOTECHNICAL RECOMMENDATIONS. SEE DETAIL 1 ON SHEET D-1.
 - ② CONSTRUCT 6" CURB AND GUTTER. SEE DETAIL 4 ON SHEET D-1.
 - ③ CONSTRUCT 6" CURB. SEE DETAIL 2 ON SHEET D-1.
 - ④ PRECAST CATCH BASIN. SEE DETAIL 15 ON SHEET D-1.
 - ⑤ PAINT 4" WIDE WHITE TRAFFIC BEARING STRIPE (2 COATS MIN.) SEE DETAIL 18 ON SHEET D-2.
 - ⑦ CONSTRUCT 4" THICK CONCRETE WALKWAY PER CITY STD. DWG S-04.
 - ⑧ CONSTRUCT ACCESSIBLE RAMP PER DETAIL 16 ON SHEET D-2.
 - ⑨ INSTALL TRUNCATED DOMES PER DETAIL 16 ON SHEET D-2.
 - ⑩ CONSTRUCT TRASH ENCLOSURE PER CITY OF VICTORVILLE BUILDING AND SAFETY DIVISION, PER SEPARATE PERMIT. SEE ARCH.
 - ⑪ CONSTRUCT 3FT VALLEY GUTTER PER DETAIL 5 ON SHEET D-1.
 - ⑬ CONSTRUCT 12" WIDE "STEP-OFF" CONCRETE PER DETAIL 3 ON SHEET D-1.
 - ⑭ PAINT GAME COURT STRIPING AND MARKINGS. FIELD VERIFY EXACT LOCATIONS, LINE THICKNESS, COLORS, SIZES AND TYPES WITH DISTRICT PRIOR TO PROCEEDING. SEE ARCHITECTURAL PLANS.
 - ⑮ INSTALL CONCRETE WHEEL STOP PER DETAIL 6 ON SHEET D-1.
 - ⑰ CONSTRUCT CURB INLET PER DETAIL 7 ON SHEET D-1.
 - ⑱ CONSTRUCT UNDERSIDEWALK CURB OUTLET PER DETAIL 12 ON SHEET D-1.
 - ⑲ INSTALL 6" TALL TUBULAR FENCE PER SEPARATE PERMIT.
 - ⑳ INSTALL 6" TALL TUBULAR GATE PER SEPARATE PERMIT.
 - ㉓ CONSTRUCT 6' TALL CMU WALL PER VICTORVILLE STD. DWG. PER DETAIL 21 ON SHEET D-3.
 - ㉔ ONSITE LIGHT POLE FOUNDATION & ANCHORAGE PER DETAIL 23 ON SHEET D-3.
 - ㉕ CONSTRUCT ROOF DRAIN CURB CORE PER DETAIL 8 ON SHEET D-1.
 - ㉖ CONSTRUCT BASIN RETAINING WALL/CURB PER DETAIL 22 ON SHEET D-3.



Date: 08 May 20 - 8:53 am
File: G:\Shared drives\KOLIBRIEN - Shared\Drawings\Desert Trails\CAD\00001 - Onsite Improvements\PPPT.dwg

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 A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

MARK	BY	DATE	REVISIONS	APPR.	DATE

CITY CASE NO. BLDC19-00180
CITY OF VICTORVILLE
ENGINEERING DEPARTMENT
 14343 Civic Drive, Victorville, CA 92392 (760) 955-5000
 Approved By: Brian W. Gengler, RCE C44730
 City Engineer

SEAL-ENGINEER

 JOHN H. JOHNSON
 No. 83934
 CIVIL
 STATE OF CALIFORNIA

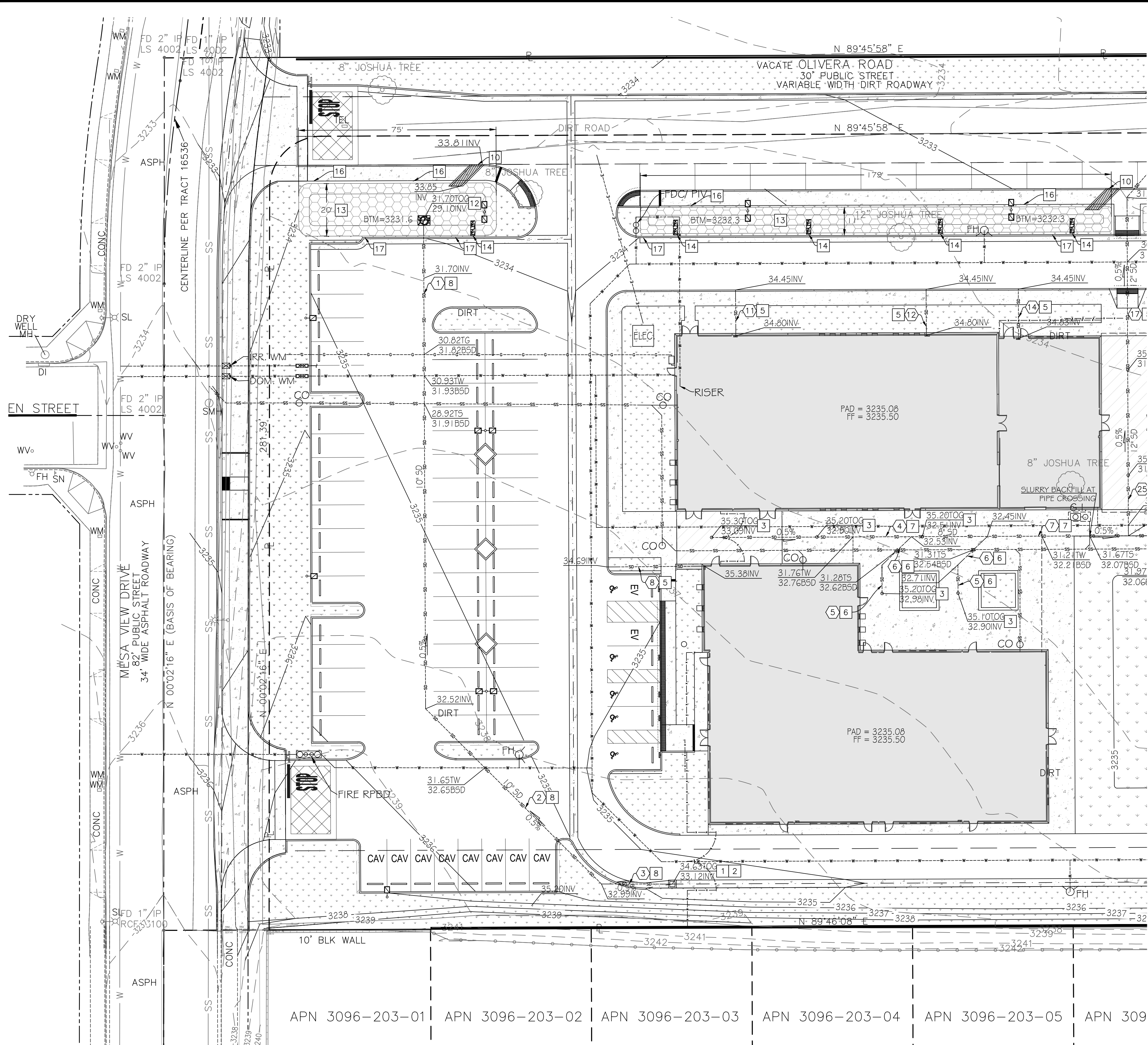
KOLIBRIEN
CIVIL / STRUCTURAL / SURVEYING
 27919 JEFFERSON AVE., STE. 201, TEMECULA, CA 92590
 PHONE: (951) 252-1034 WEB: WWW.KOLIBRIEN.BIZ
 PREPARED BY:
 JOHN H. JOHNSON; R.C.E. NO. 83934 DATE: 03/05/2020

BENCHMARK:
 CITY OF VICTORVILLE BENCHMARK
 V-212.
 LA MESA RD. AND HIGHWAY 395: 146
 FT EAST OF EAST EP OF HWY 395 AND
 87 FT SOUTHWEST OF FIRE HYDRANT
 ELEVATION = 3248.52 (NAVD 29).

DRAWN	PM&RD
DESIGNED	JJ
CHECKED	JJ
SCALE	AS NOTED
JOB NUMBER	D03002
DATE	12-02-2019

BLDC19-00180
CITY OF VICTORVILLE
DESERT TRAILS PREPARATORY ACADEMY MIDDLE SCHOOL
ONSITE IMPROVEMENT PLANS
PRECISE GRADING PLAN
 FOR: DESERT TRAILS W.O. CITY JOB NO.

SHEET NO.
4
 OF 16 SHEETS
 FILE NO.
G-2



STORMWATER CONSTRUCTION NOTES

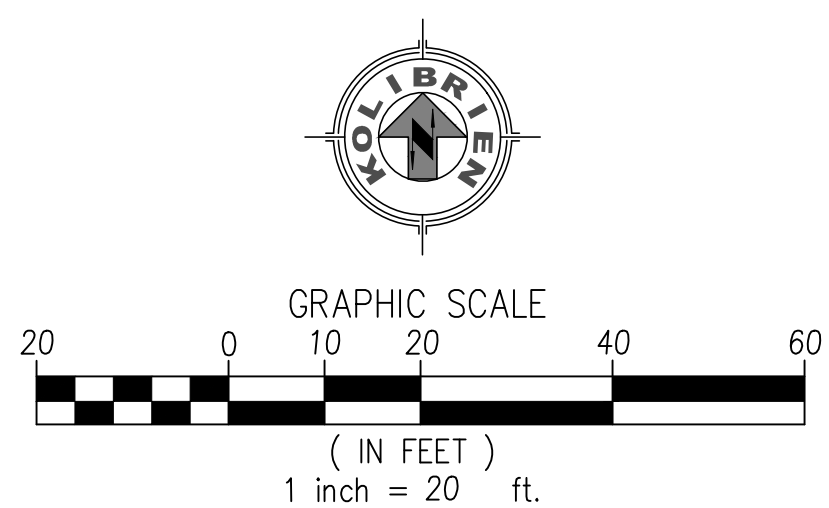
QTY.

- 1 INSTALL 24"x24" PRECAST CONCRETE CATCH BASIN (JENSEN D12424 OR APPROVED EQUAL) PER DETAIL 15 ON SHEET D-2. 2 EA
- 2 INSTALL FLOGARD CATCH BASIN INSERT FILTER PER DETAIL 19 ON SHEET D-2. 2 EA
- 3 INSTALL NDS DECK DRAIN PER DETAIL 9 ON SHEET D-2. 6 EA
- 4 INSTALL NDS PLANTER DRAIN PER DETAIL 9 ON SHEET D-2. 4 EA
- 5 INSTALL 4" DIA. PVC S40 STORM DRAIN LINE FROM ROOF DRAIN TO CURB OUTLET. SEE DETAIL 8 ON D-1. 180 L.F.
- 6 INSTALL 6" DIA. PVC SDR35 STORM DRAIN LINE. 93 L.F.
- 7 INSTALL 8" DIA. PVC SDR35 STORM DRAIN LINE. 320 L.F.
- 8 INSTALL 10" DIA. PVC SDR35 STORM DRAIN LINE. 305 L.F.
- 9 INSTALL 12" DIA. ADS N12 STORM DRAIN LINE. 287 L.F.
- 10 CONSTRUCT UNDERSIDEWALK CURB OUTLET PER DETAIL 12 ON SHEET D-1. 3 EA
- 11 CONSTRUCT RIP-RAP W/ 6" RIVER ROCK AT EARTHEN SWALE OUTLET PER EROSION CONTROL PLAN. NOTE RIP-RAP IS ALSO PERMANENT BMP. 2 EA
- 12 CONSTRUCT BIORETENTION PIPE INLET PER DETAIL 14 ON SHEET D-1. 3 EA
- 13 BIORETENTION BASIN TYPICAL SECTION PER DETAIL 10 ON SHEET D-1. 4 EA
- 14 BIORETENTION BASIN TYPICAL CURB INLET PER DETAIL 7 ON SHEET D-1. 14 EA
- 15 BIORETENTION BASIN TYPICAL CHECK DAM PER DETAIL 11 ON SHEET D-1 2 EA
- 16 BIORETENTION BASIN SIDEWALK EDGE PER DETAIL 13 ON SHEET D-1 419 L.F.
- 17 BIORETENTION BASIN RETAINING CURB WALL PER DETAIL 21 ON SHEET D-3 605 L.F.
- 18 CONSTRUCT TRENCH DRAIN PER DETAIL 24 ON SHEET D-4. 57 L.F.
- 19 CONSTRUCT TRENCH DRAIN BASIN PER DETAIL 25 ON SHEET D-4. 1 EA

MATCH LINE / SEE SHEET S-2

STORM DRAIN PIPE DATA TABLE

PIPE ID	LENGTH (LF)	BEARING
1	183.59	N00°14'02"
2	94.27	N45°05'53"
3	26.73	N89°57'44"
4	104.72	N89°45'58"
5	10.76	N00°14'02"
6	15.56	N46°01'10"
7	53.53	N89°45'58"
8	36.94	N89°45'58"
9	27	N89°45'58"
10	18.94	N00°14'02"
11	18.94	N00°14'02"
12	18.94	N00°14'02"
13	18.94	N00°14'02"
14	18.94	N00°14'02"
15	10.95	N00°14'02"
16	18.94	N00°14'02"
17	18.94	N00°14'02"
18	18.94	N00°14'02"
19	18.94	N00°14'02"
20	18.94	N00°14'02"
21	18.94	N00°14'02"
22	18.94	N00°14'02"
23	18.94	N00°14'02"
24	59.00	N40°59'01"
25	128.55	N00°14'02"
26	28.72	N89°45'58"
27	22.21	N45°58'33"
28	48.50	N00°14'02"
29	57.91	N86°42'25"
30	40.53	N89°45'58"
31	4.24	N45°14'02"
32	60.00	N89°42'58"



DIG ALERT
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MARK	BY	DATE	REVISIONS	APPR.	DATE

CITY CASE NO. **BLDC19-00180**
CITY OF VICTORVILLE
ENGINEERING DEPARTMENT
 14343 Civic Drive, Victorville, CA 92590 (760) 955-5000
 Approved By:
 Brian W. Gengler, RCE C44730
 City Engineer

SEAL-ENGINEER
JOHN H. JOHNSON
 No. 83934
 CIVIL
 STATE OF CALIFORNIA

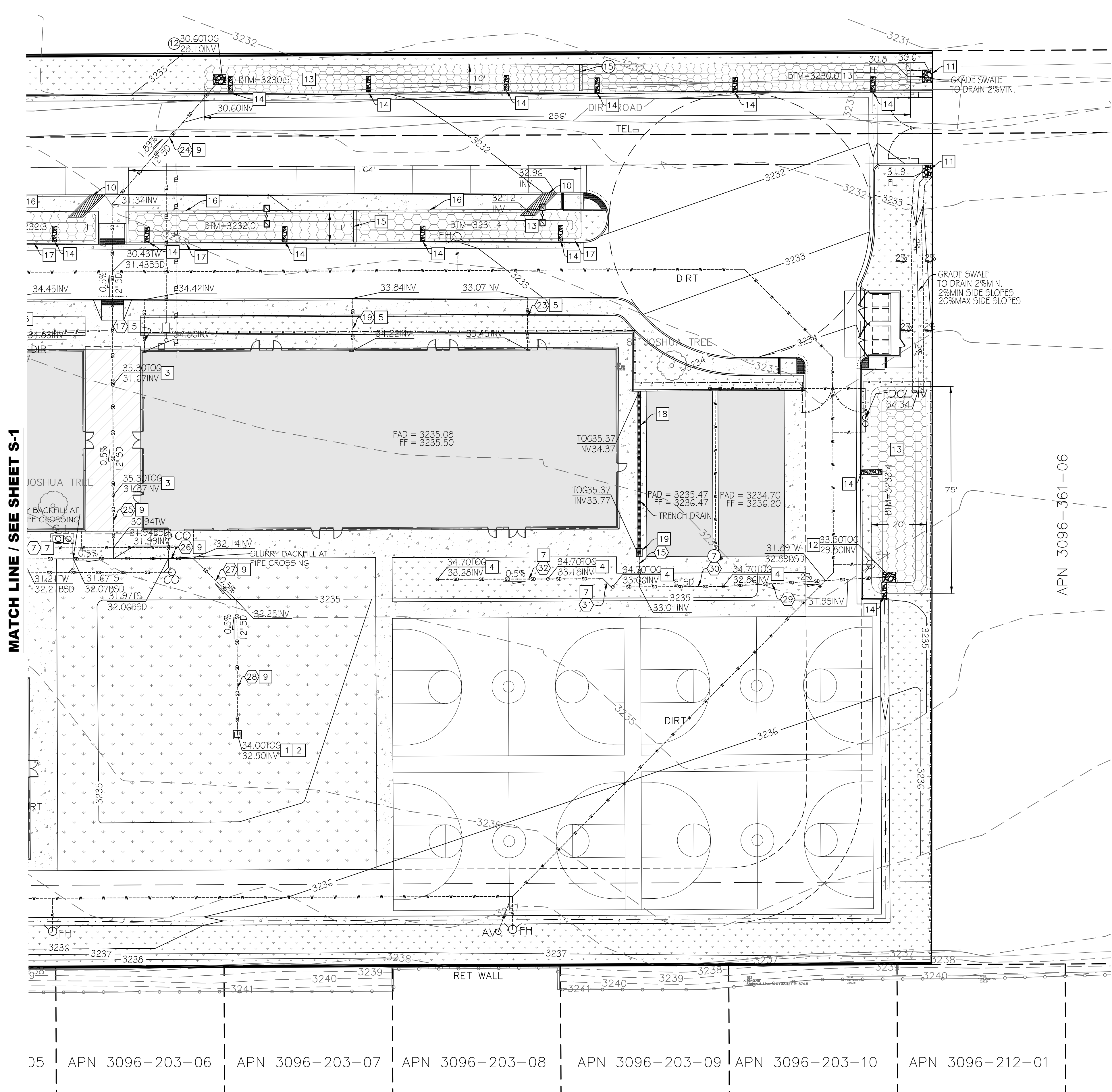
KOLIBRIEN
 CIVIL / STRUCTURAL / SURVEYING
 27919 JEFFERSON AVE., STE. 201, TEMECULA, CA 92590
 PHONE: (951) 252-1034 WEB: WWW.KOLIBRIEN.BIZ
 PREPARED BY:
 JOHN H. JOHNSON; R.C.E. NO. 83934
 DATE: 03/05/2020

BENCHMARK:
 CITY OF VICTORVILLE BENCHMARK
 V-212.
 LA MESA RD. AND HIGHWAY 395; 146
 FT EAST OF EAST EP OF HWY 395 AND
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BLDC19-00180
CITY OF VICTORVILLE
DESERT TRAILS PREPARATORY ACADEMY MIDDLE SCHOOL
ONSITE IMPROVEMENT PLANS
STORM DRAIN PLAN
 FOR: DESERT TRAILS
 W.O.
 CITY JOB NO.

SHEET NO.
5
 OF 16 SHEETS
 FILE NO.
S-1

Date: 08 May 20 - 8:54 am
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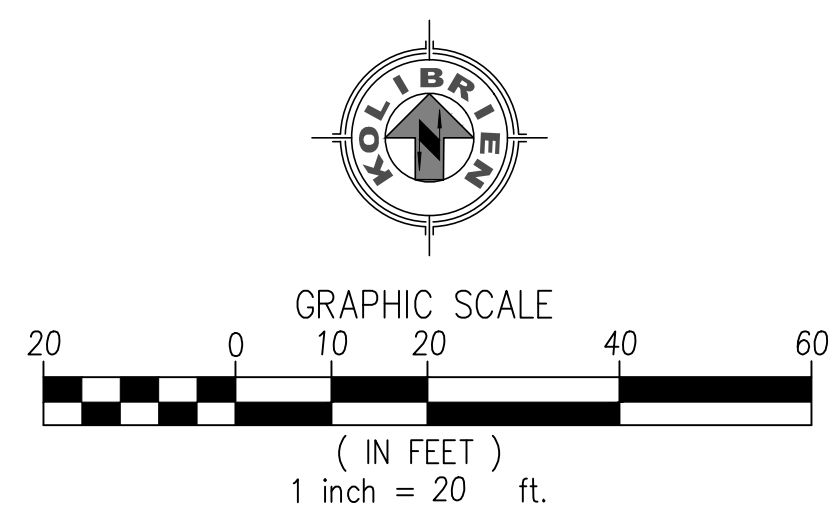


STORMWATER CONSTRUCTION NOTES:

- 1 INSTALL 24"x24" PRECAST CONCRETE CATCH BASIN (JENSEN DI2424 OR APPROVED EQUAL) PER DETAIL 15 ON SHEET D-2.
- 2 INSTALL FLOGARD CATCH BASIN INSERT FILTER PER DETAIL 19 ON SHEET D-2.
- 3 INSTALL NDS DECK DRAIN PER DETAIL 9 ON SHEET D-2.
- 4 INSTALL NDS PLANTER DRAIN PER DETAIL 9 ON SHEET D-2.
- 5 INSTALL 4" DIA. PVC S40 STORM DRAIN LINE FROM ROOF DRAIN TO CURB OUTLET. SEE DETAIL 8 ON D-1.
- 6 INSTALL 6" DIA. PVC SDR35 STORM DRAIN LINE.
- 7 INSTALL 8" DIA. PVC SDR35 STORM DRAIN LINE.
- 8 INSTALL 10" DIA. PVC SDR35 STORM DRAIN LINE.
- 9 INSTALL 12" DIA. ADS N12 STORM DRAIN LINE.
- 10 CONSTRUCT UNDERSIDEWALK CURB OUTLET PER DETAIL 12 ON SHEET D-1.
- 11 CONSTRUCT RIP-RAP W/ 6" RIVER ROCK AT EARTHEN SWALE OUTLET PER EROSION CONTROL PLAN. NOTE RIP-RAP IS ALSO PERMANENT BMP.
- 12 CONSTRUCT BIORETENTION PIPE INLET PER DETAIL 14 ON SHEET D-1.
- 13 BIORETENTION BASIN TYPICAL SECTION PER DETAIL 10 ON SHEET D-1.
- 14 BIORETENTION BASIN TYPICAL CURB INLET PER DETAIL 7 ON SHEET D-1.
- 15 BIORETENTION BASIN TYPICAL CHECK DAM PER DETAIL 11 ON SHEET D-1.
- 16 BIORETENTION BASIN SIDEWALK EDGE PER DETAIL 13 ON SHEET D-1.
- 17 BIORETENTION BASIN RETAINING CURB WALL PER DETAIL 21 ON SHEET D-3.
- 18 CONSTRUCT TRENCH DRAIN PER DETAIL 24 ON SHEET D-4.
- 19 CONSTRUCT TRENCH DRAIN BASIN PER DETAIL 25 ON SHEET D-4.

STORM DRAIN PIPE DATA TABLE

PIPE ID (X)	LENGTH (LF)	BEARING
1	183.59	N00°14'02"
2	94.27	N45°05'53"
3	26.73	N89°57'44"
4	104.72	N89°45'58"
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14	18.94	N00°14'02"
15	10.95	N00°14'02"
16	18.94	N00°14'02"
17	18.94	N00°14'02"
18	18.94	N00°14'02"
19	18.94	N00°14'02"
20	18.94	N00°14'02"
21	18.94	N00°14'02"
22	18.94	N00°14'02"
23	18.94	N00°14'02"
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32	60.00	N89°42'58"



MATCH LINE / SEE SHEET S-1

APN 3096-361-06

05 APN 3096-203-06 APN 3096-203-07 APN 3096-203-08 APN 3096-203-09 APN 3096-203-10 APN 3096-212-01

MARK	BY	DATE	REVISIONS	APPR.	DATE

CITY CASE NO. BLDC19-00180

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

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

KOLIBRIEN CIVIL / STRUCTURAL / SURVEYING
27919 JEFFERSON AVE., STE. 201, TEMECULA, CA 92590
PHONE: (951) 252-1034 WEB: WWW.KOLIBRIEN.BIZ

PREPARED BY: John H. Johnson
JOHN H. JOHNSON; R.C.E. NO. 83934 DATE: 03/05/2020

BENCHMARK:
CITY OF VICTORVILLE BENCHMARK V-212.
LA MESA RD. AND HIGHWAY 395: 146 FT EAST OF EAST EP OF HWY 395 AND 87 FT SOUTHWEST OF FIRE HYDRANT ELEVATION = 3248.52 (NAVD 29).

DRAWN PM&RD
DESIGNED JJ
CHECKED JJ
SCALE AS NOTED
JOB NUMBER D03002
DATE 12-02-2019

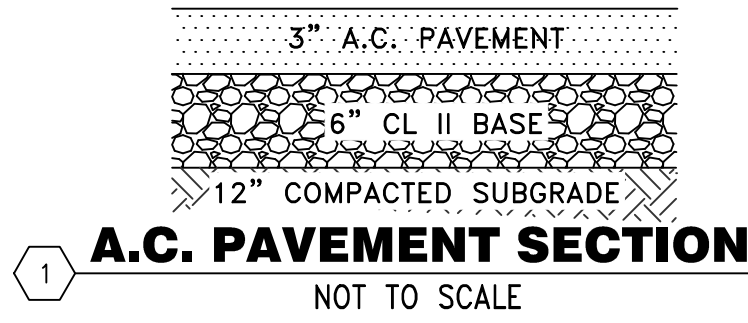
BLDC19-00180

CITY OF VICTORVILLE
DESERT TRAILS PREPARATORY ACADEMY MIDDLE SCHOOL
ONSITE IMPROVEMENT PLANS
STORM DRAIN PLAN

FOR: DESERT TRAILS W.O. CITY JOB NO.

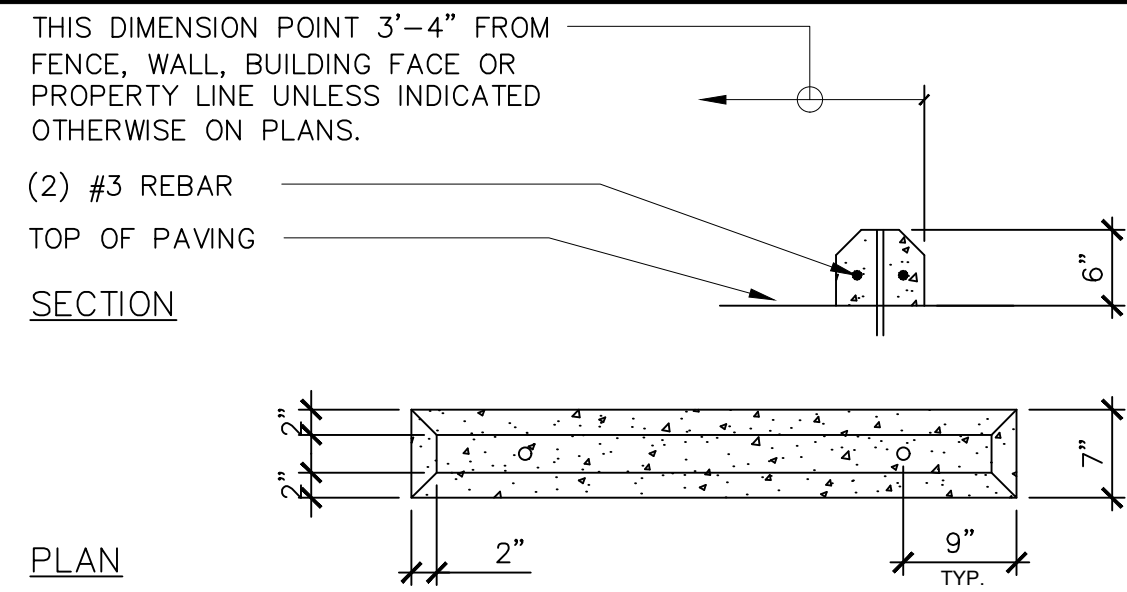
SHEET NO. **6**
OF 16 SHEETS
FILE NO. **S-2**

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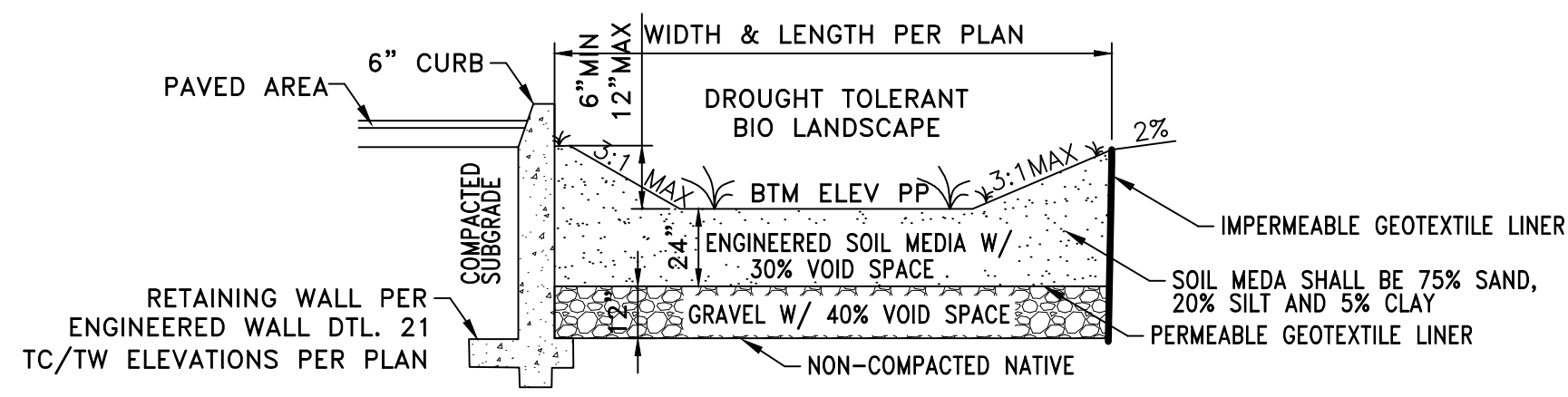


1 A.C. PAVEMENT SECTION
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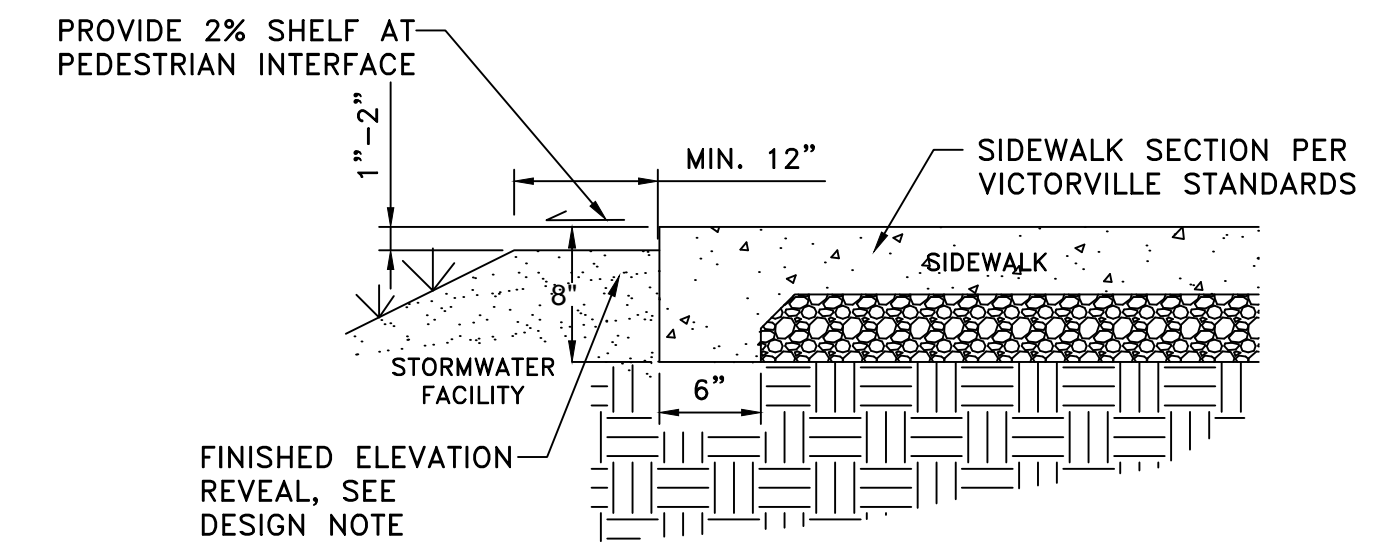
NOTE: OK TO REDUCE PAVEMENT SECTION IN PARKING AREAS TO 3\"/>



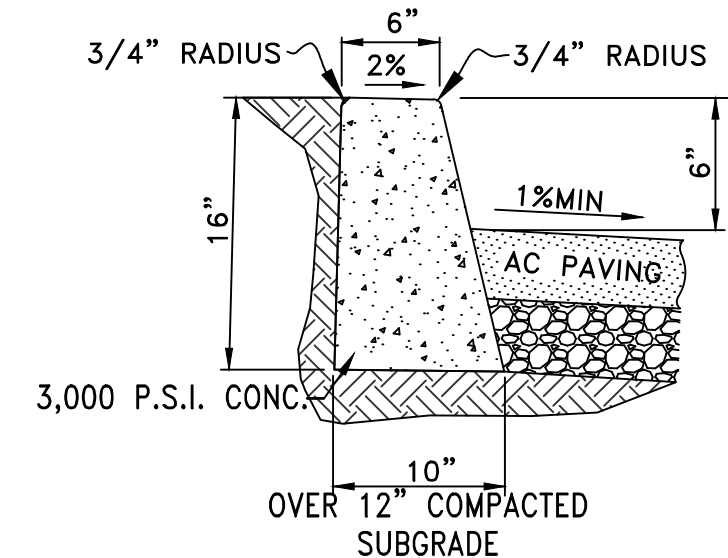
6 CONCRETE WHEEL STOP DETAIL
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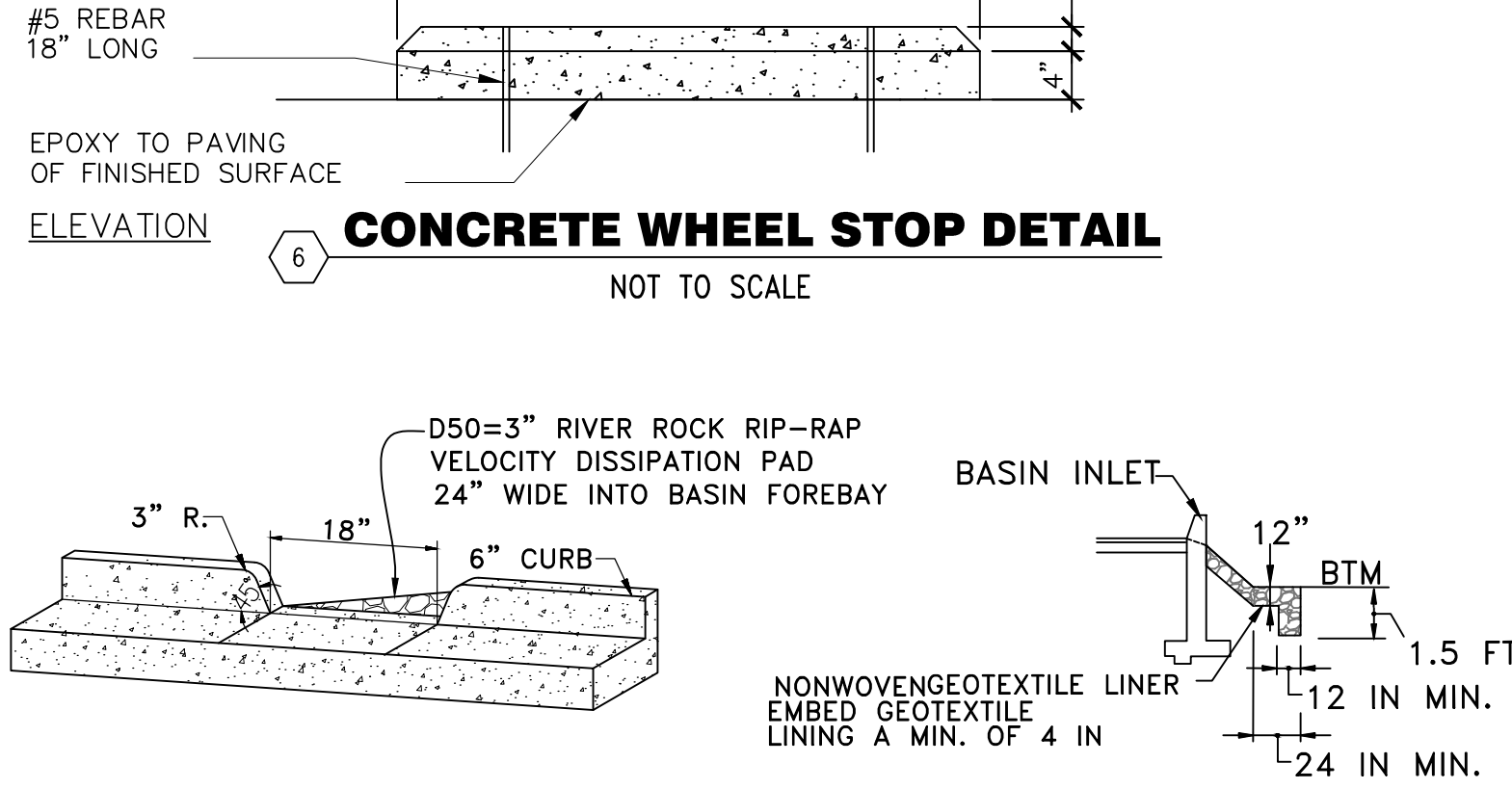
10 TYPICAL BIORETENTION BASIN DETAIL
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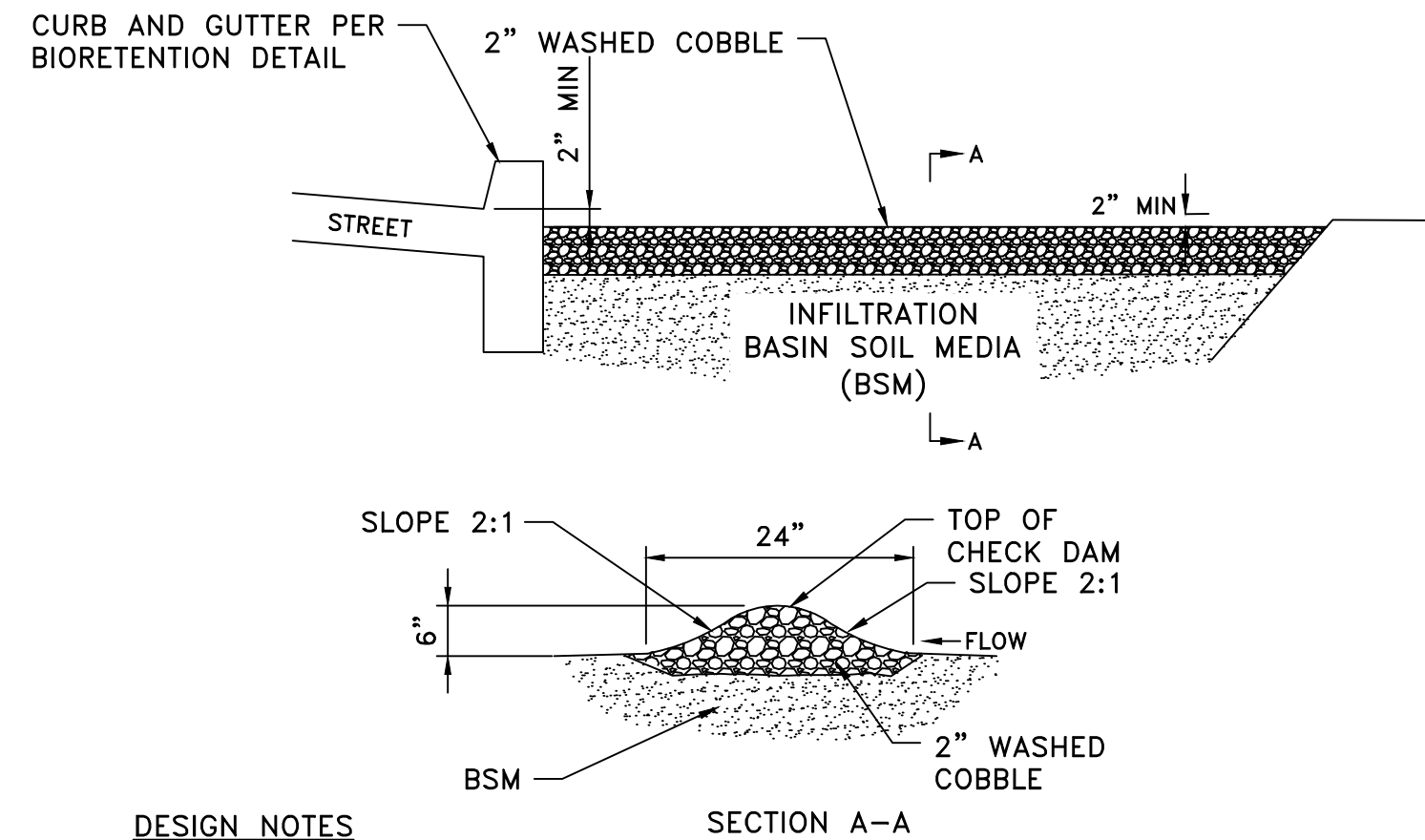
13 BIORETENTION BASIN SIDEWALK EDGE DETAIL
NOT TO SCALE



2 PARKING LOT CURB DETAIL
NOT TO SCALE



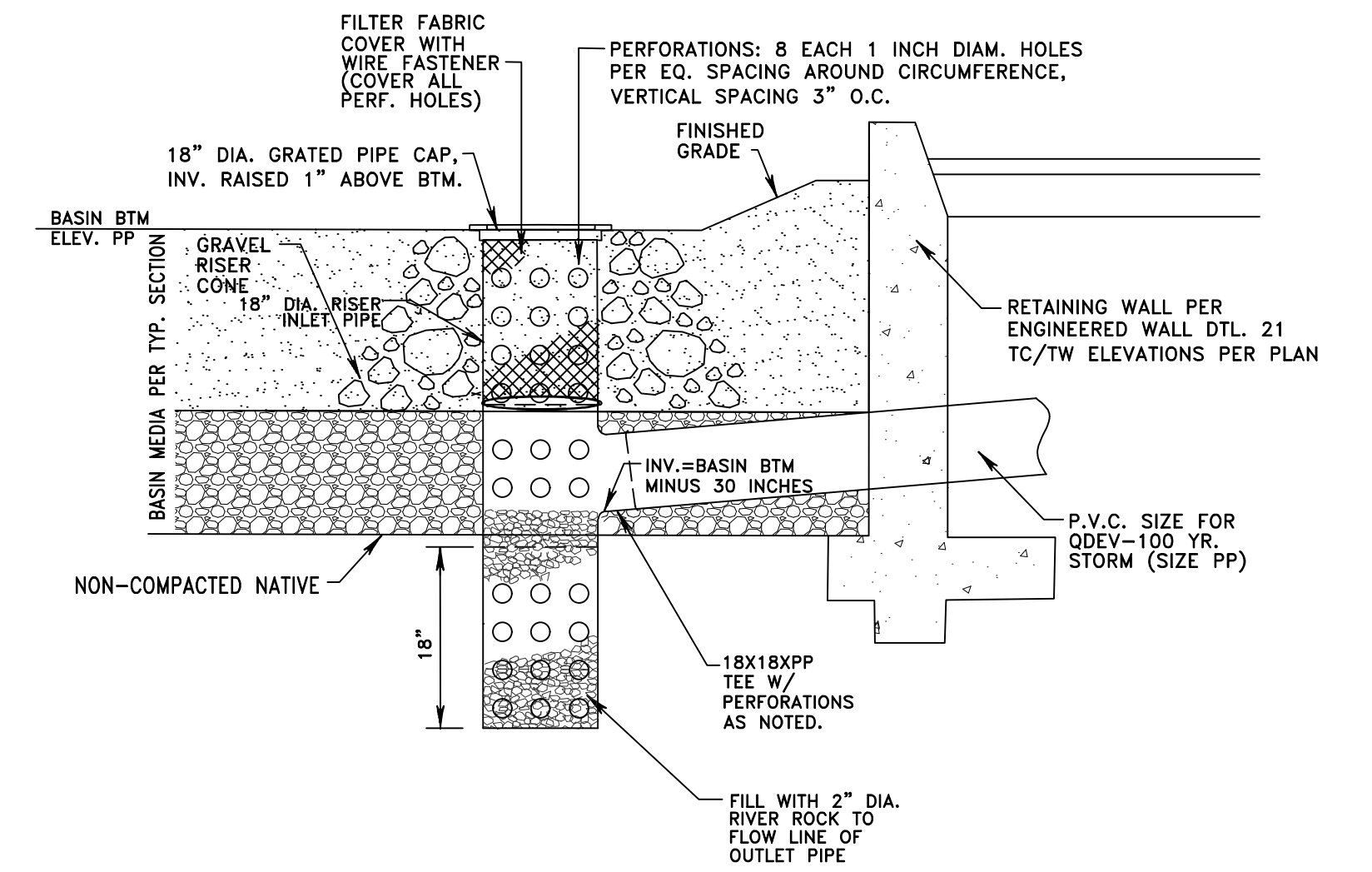
7 BASIN CURB DRAINAGE INLET
NOT TO SCALE



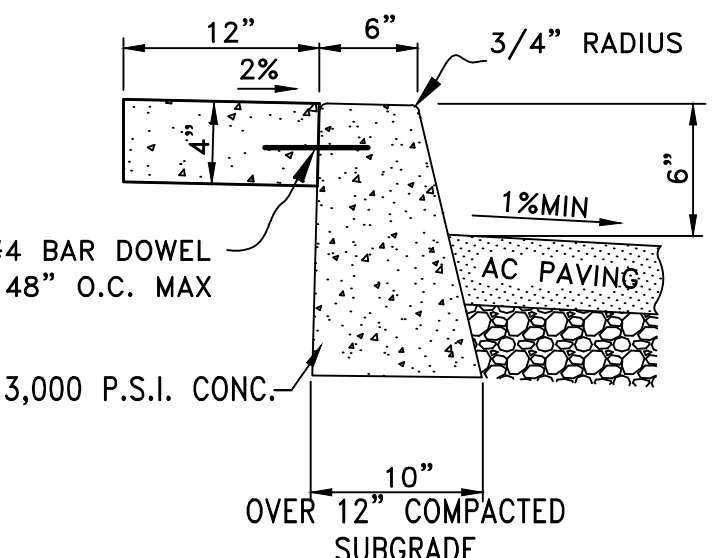
DESIGN NOTES

1. SPACE CHECK DAMS AT 50' O.C. TO MAXIMIZE PONDING ACROSS ENTIRE CELL.
2. ENSURE THAT CHECK DAM ELEVATIONS DO NOT CAUSE STORMWATER TO OVERFLOW TO SIDEWALK.

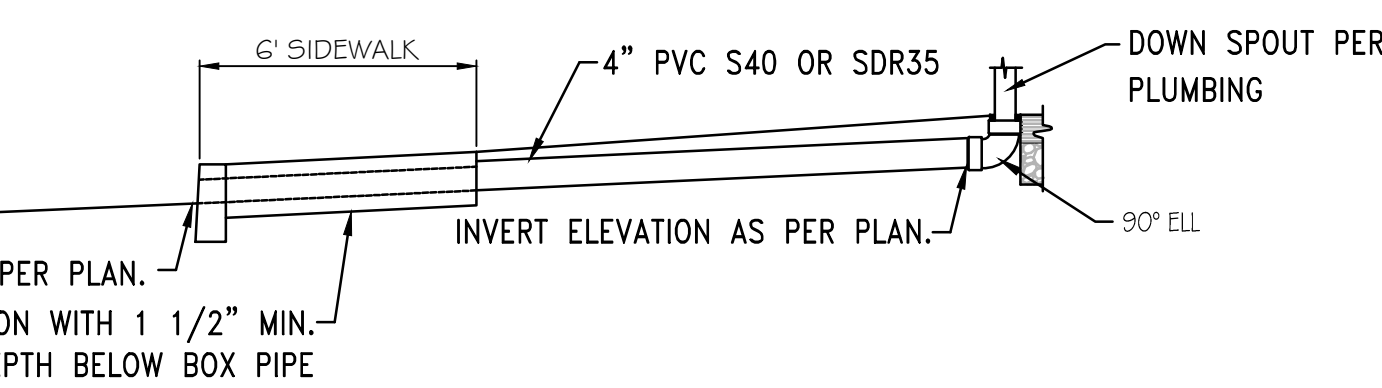
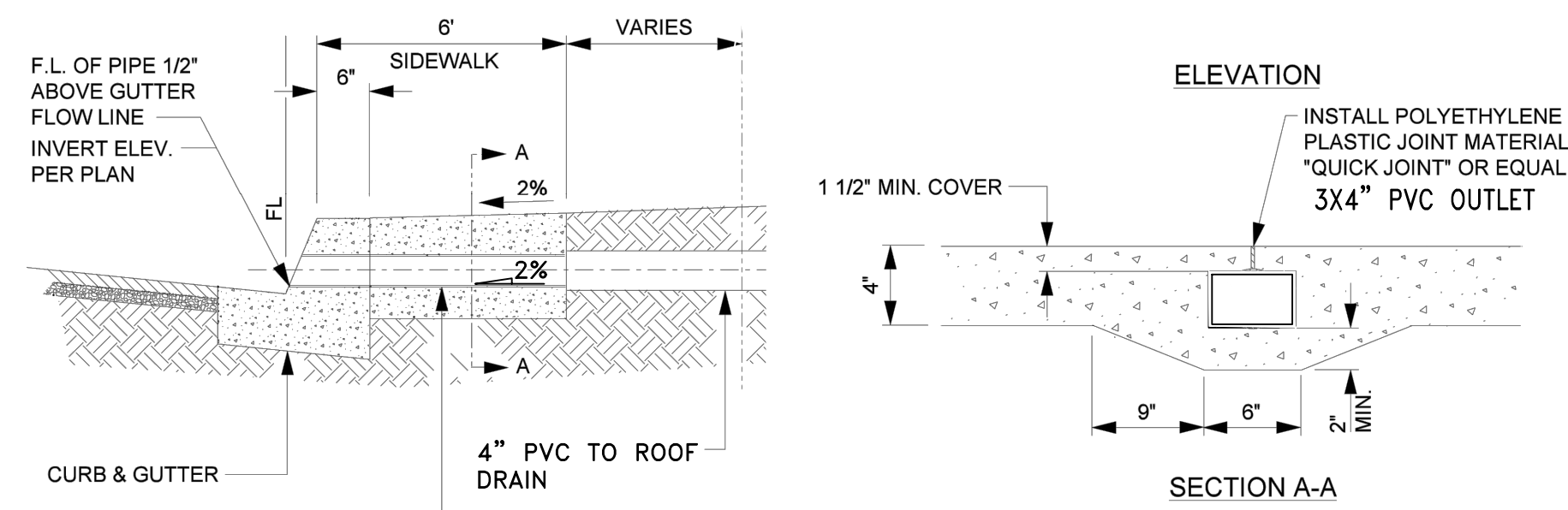
11 BIORETENTION BASIN CHECK DAM DETAIL
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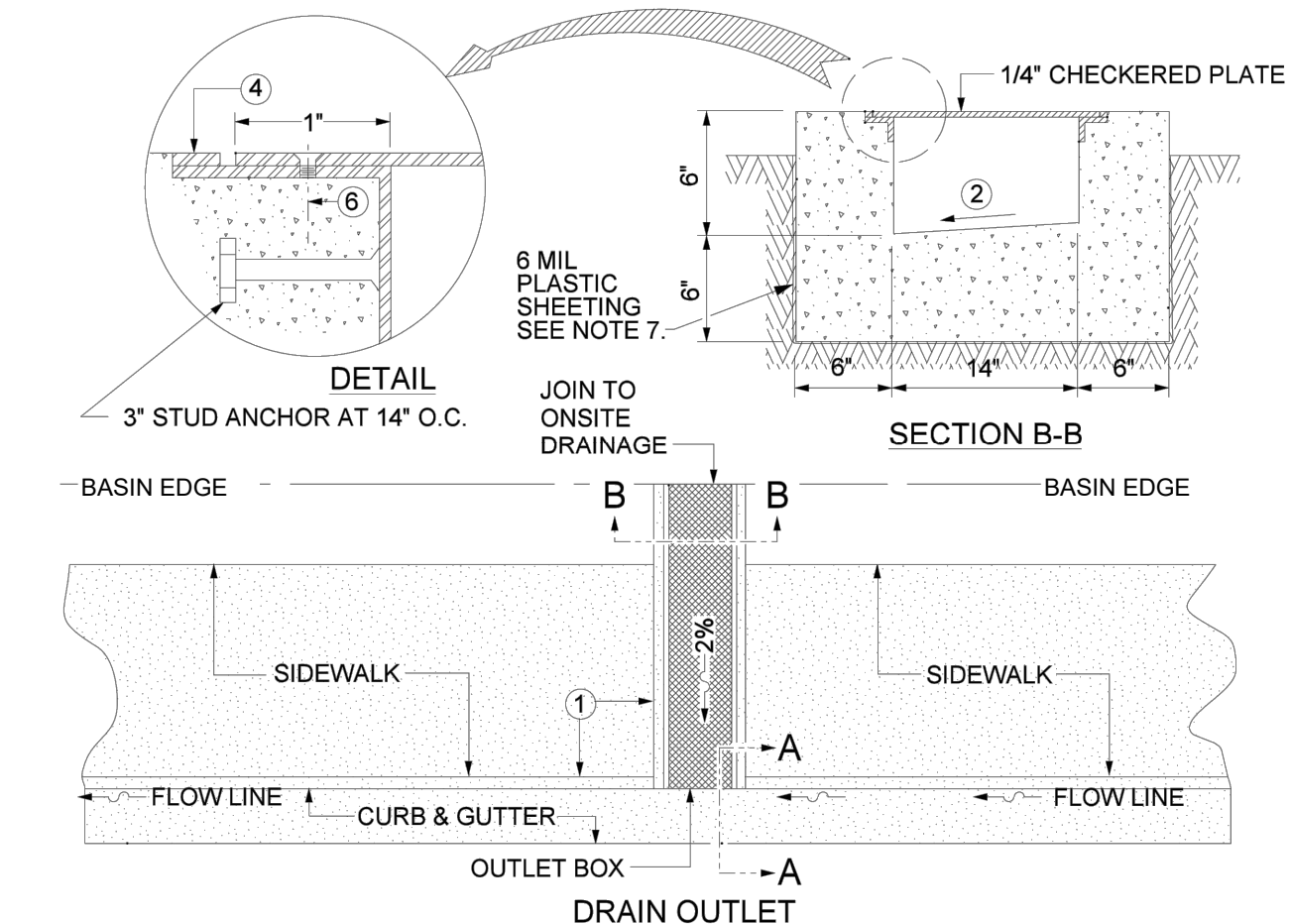
14 BIORETENTION BASIN PIPE INLET DETAIL
NOT TO SCALE



3 12\"/>



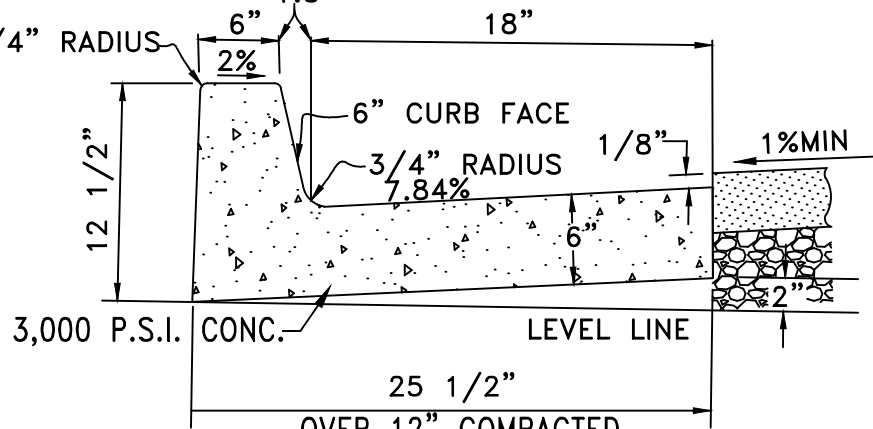
8 CURB CORE TO ROOF DRAIN DETAIL
NOT TO SCALE



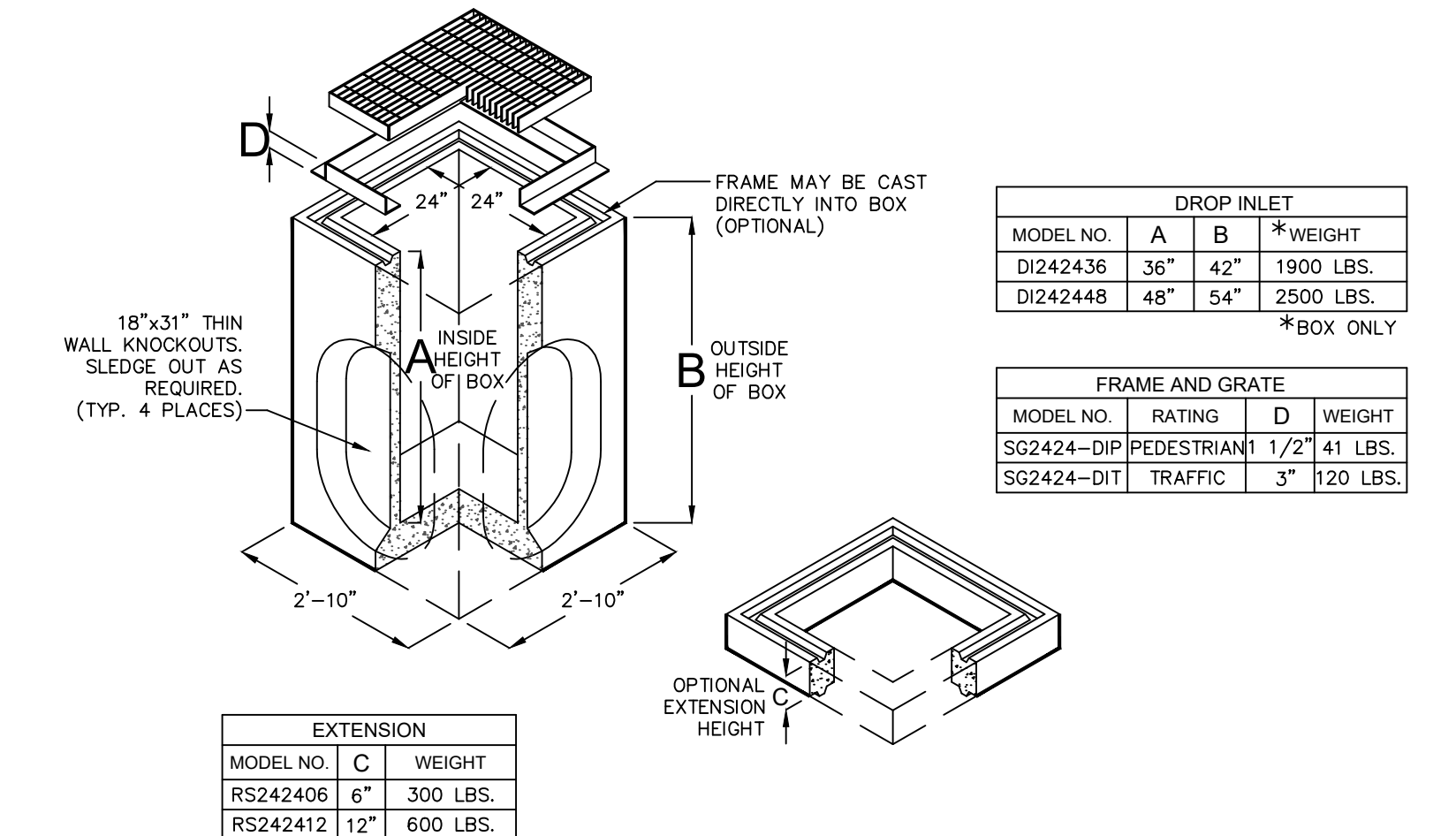
NOTE

1. UNDER SIDEWALK DRAIN TO BE CONSTRUCTED PER PLAN AT 45 DEGREES TO CURB FACE
2. SLOPE TO DRAIN TO ONE SIDE.
3. ALL EXPOSED METAL PARTS TO BE GALVANIZED AFTER FABRICATION.
4. 1 1/2\"/>

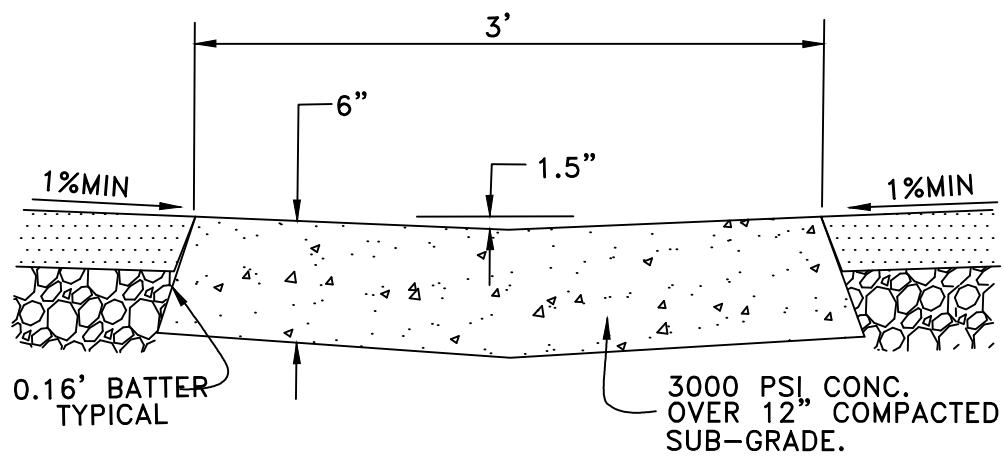
12 UNDER SIDEWALK DRAIN DETAIL
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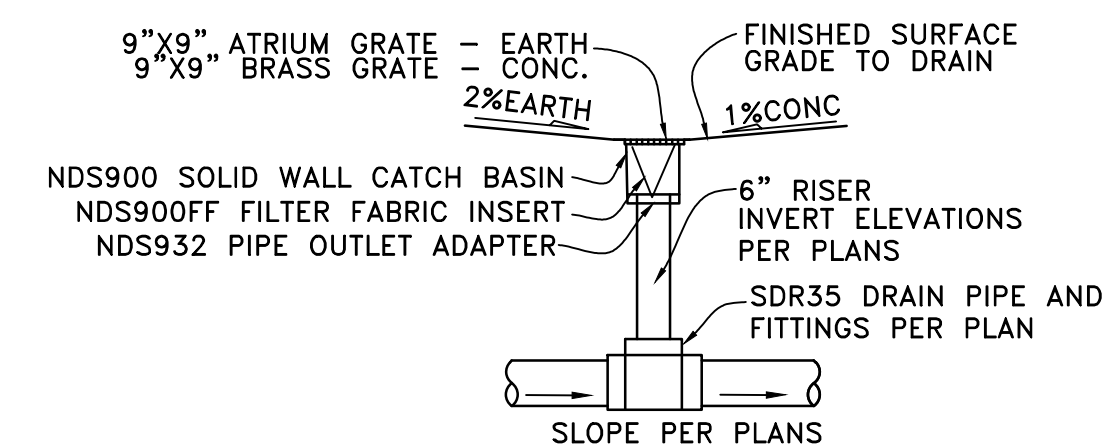
4 6\"/>



15 JENSEN PRE-CAST CATCH BASIN INLET DETAIL
NOT TO SCALE



5 VALLEY GUTTER DETAIL
NOT TO SCALE



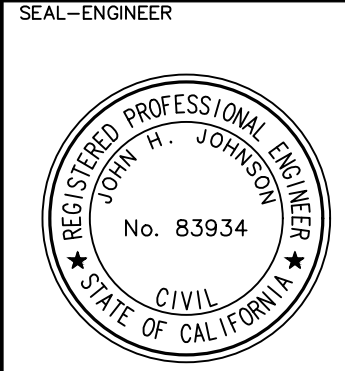
9 PLANTER & DECK DRAIN INLET
NOT TO SCALE



MARK	BY	DATE	REVISIONS	APPR.	DATE



CITY CASE NO. BLDC19-00180
CITY OF VICTORVILLE
 ENGINEERING DEPARTMENT
 14343 Civic Drive, Victorville, CA 92392 (760) 955-5000
 Approved By: Brian W. Gengler, RCE C44730 City Engineer



KOLIBRIEN
 CIVIL / STRUCTURAL / SURVEYING
 27919 JEFFERSON AVE., STE. 201, TEMECULA, CA 92590
 PHONE: (951) 252-1034 WEB: WWW.KOLIBRIEN.BIZ
 PREPARED BY: John H. Johnson, R.C.E., No. 83934, DATE: 03/05/2020

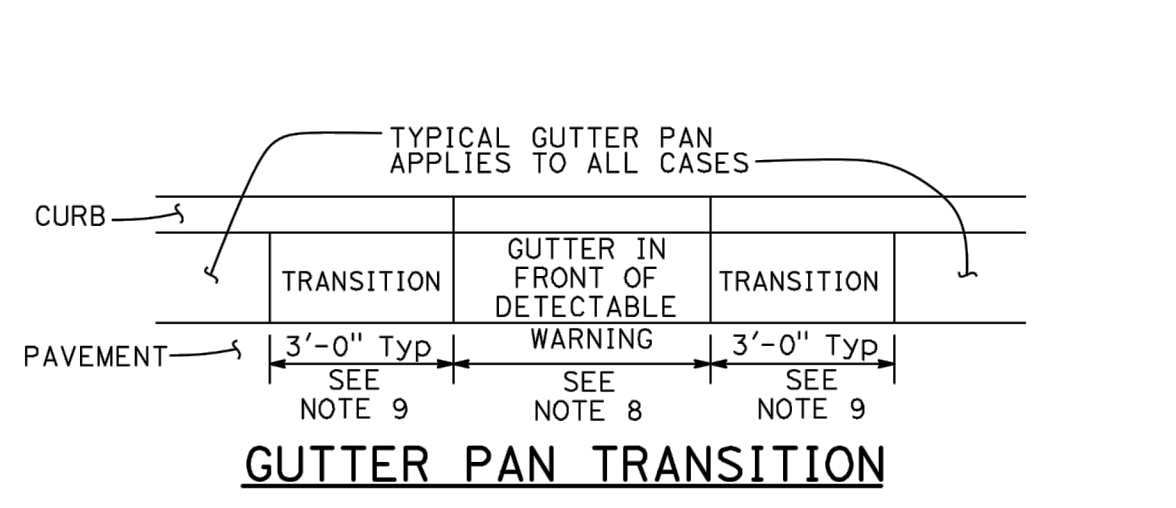
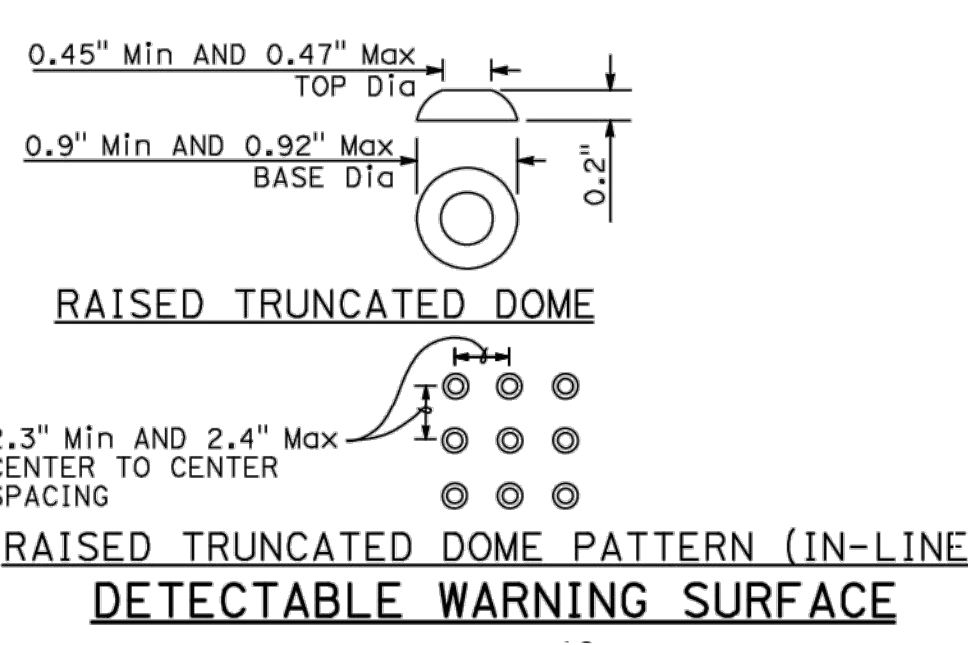
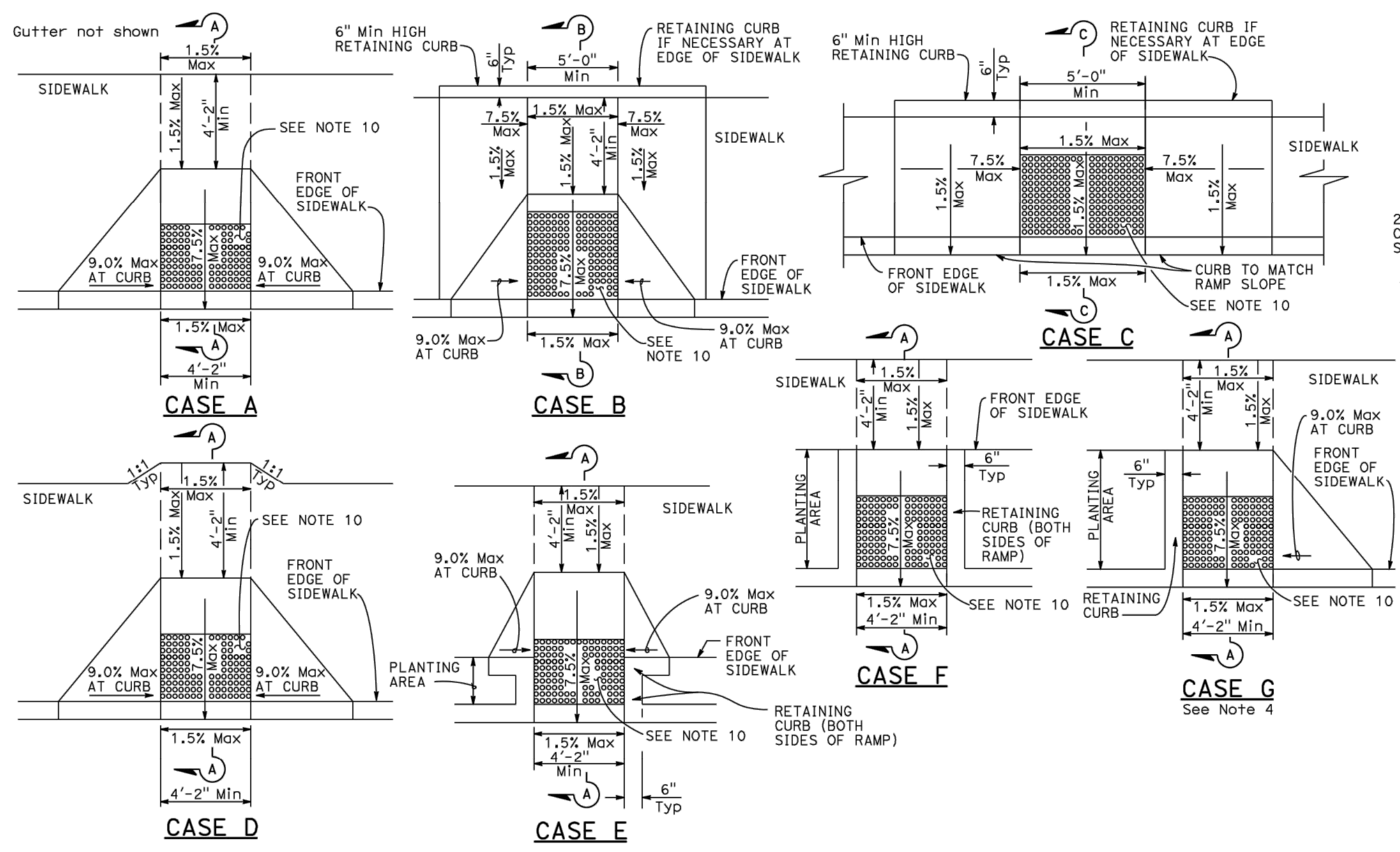
BENCHMARK:
 CITY OF VICTORVILLE BENCHMARK V-212.
 LA MESA RD. AND HIGHWAY 395: 146 FT EAST OF EP OF HWY 395 AND 87 FT SOUTHWEST OF FIRE HYDRANT ELEVATION = 3248.52 (NAVD 29).

DRAWN: PM&RD
 DESIGNED: JJ
 CHECKED: JJ
 SCALE: AS NOTED
 JOB NUMBER: D03002
 DATE: 12-02-2019

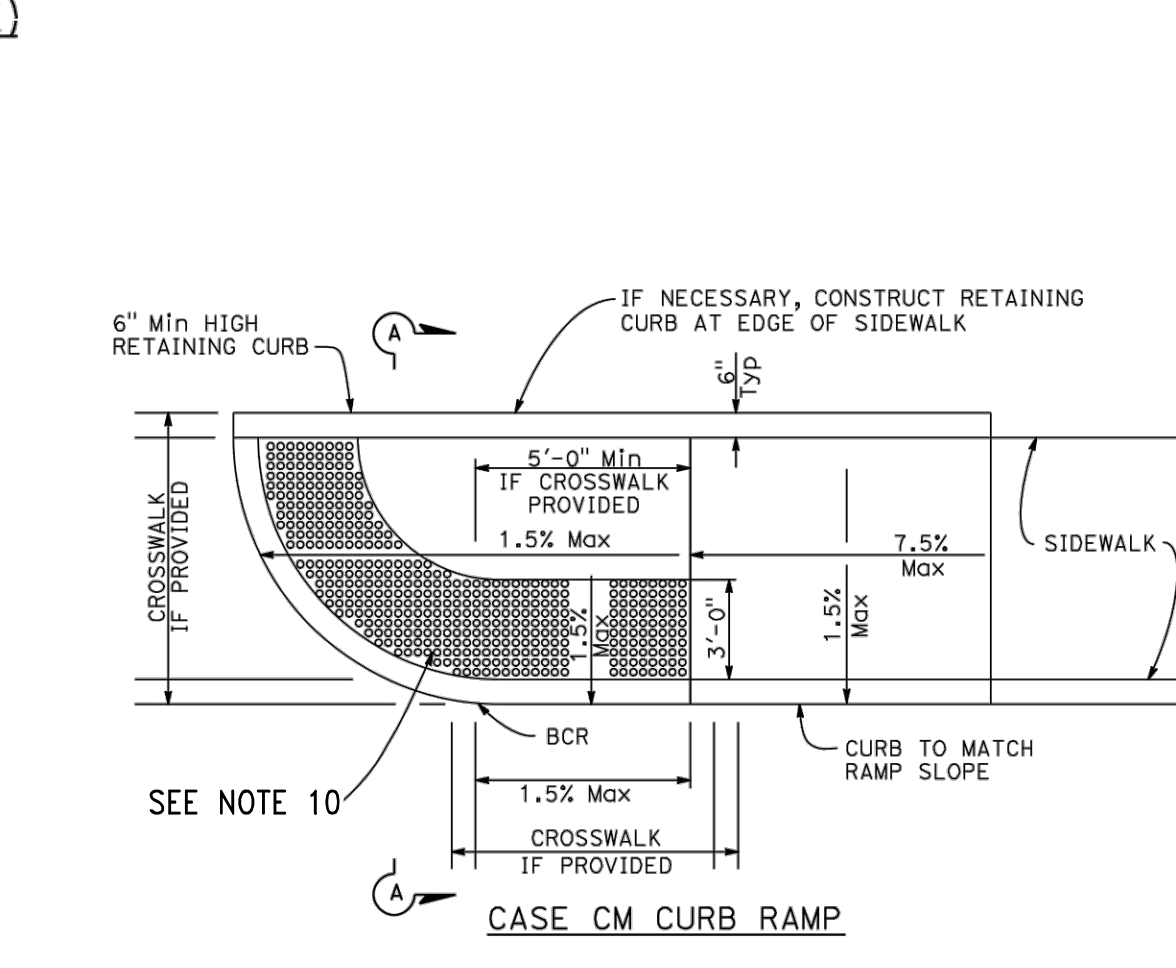
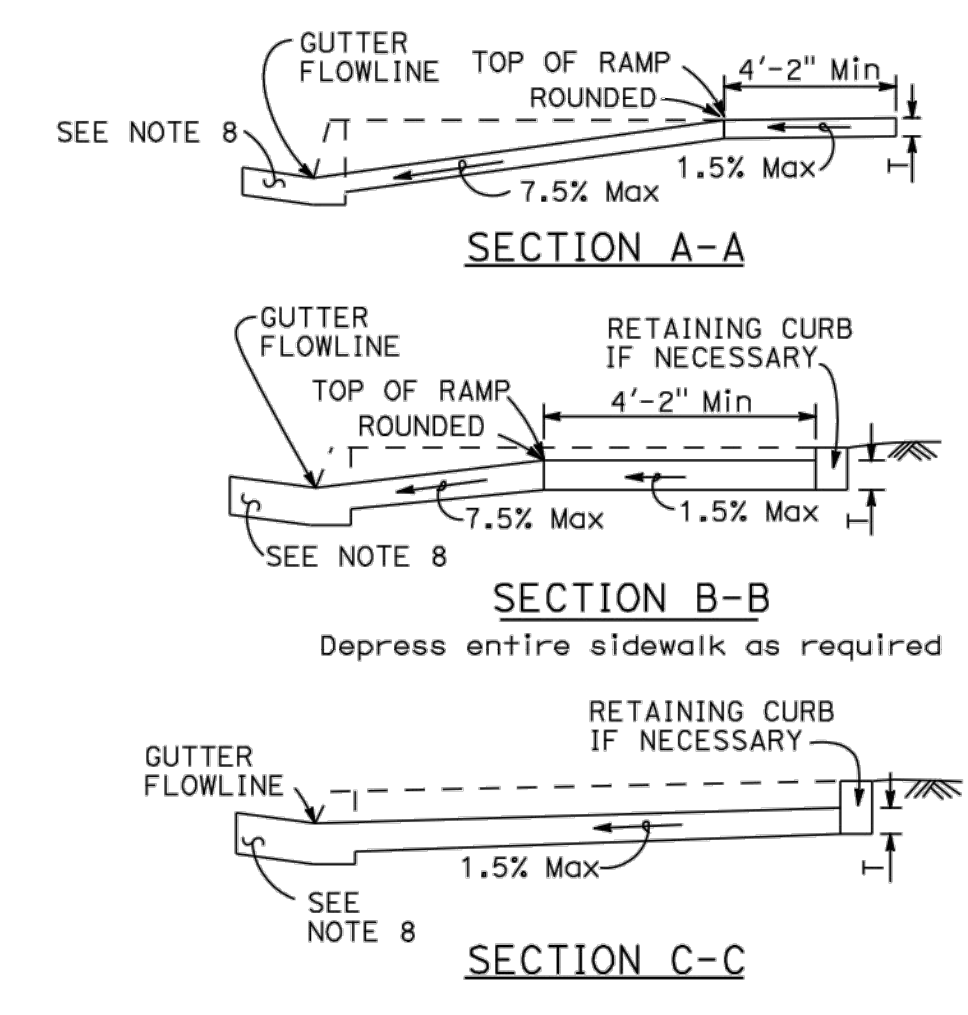
BLDC19-00180
CITY OF VICTORVILLE
 DESERT TRAILS PREPARATORY ACADEMY MIDDLE SCHOOL
ONSITE IMPROVEMENT PLANS
 DETAILS
 FOR: DESERT TRAILS W.O. CITY JOB NO.

SHEET NO. **7**
 OF 16 SHEETS
 FILE NO. **D-1**

Date: 08 May 20 - 8:58 am File: C:\temp\dwg\KOLIBRIEN - SWANING\DWG\19-00180\ONSITE IMPROVEMENTS DETAILS.rvt



- NOTES:**
- As site conditions dictate, Case A through Case G curb ramps may be used for corner installations similar to those shown in Detail A and Detail B. The case of curb ramps used in Detail A do not have to be the same. Case A through Case G curb ramps also may be used at mid block locations, as site conditions dictate. For specific site condition configuration, including the conform to existing sidewalk, see Project Plans.
 - If distance from curb to back of sidewalk is too short to accommodate ramp and 4'-2\"/>



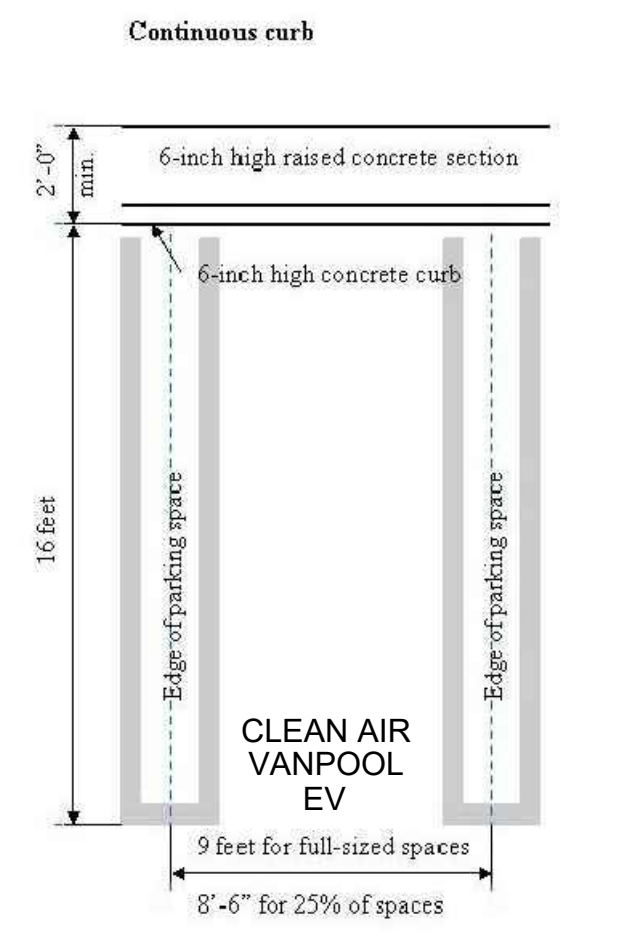
16 CURB RAMP STANDARD DETAILS - CTM A88A/B
NOT TO SCALE

CGC 5.106.5.2 DESIGNATED PARKING FOR CLEAN AIR VEHICLES. IN NEW PROJECTS OR ADDITIONS OR ALTERATIONS THAT ADD 10 OR MORE VEHICULAR PARKING SPACES, PROVIDE DESIGNATED PARKING FOR ANY COMBINATION OF LOW-EMITTING, FUEL-EFFICIENT AND CARPOOL/VAN POOL VEHICLES AS FOLLOWS:

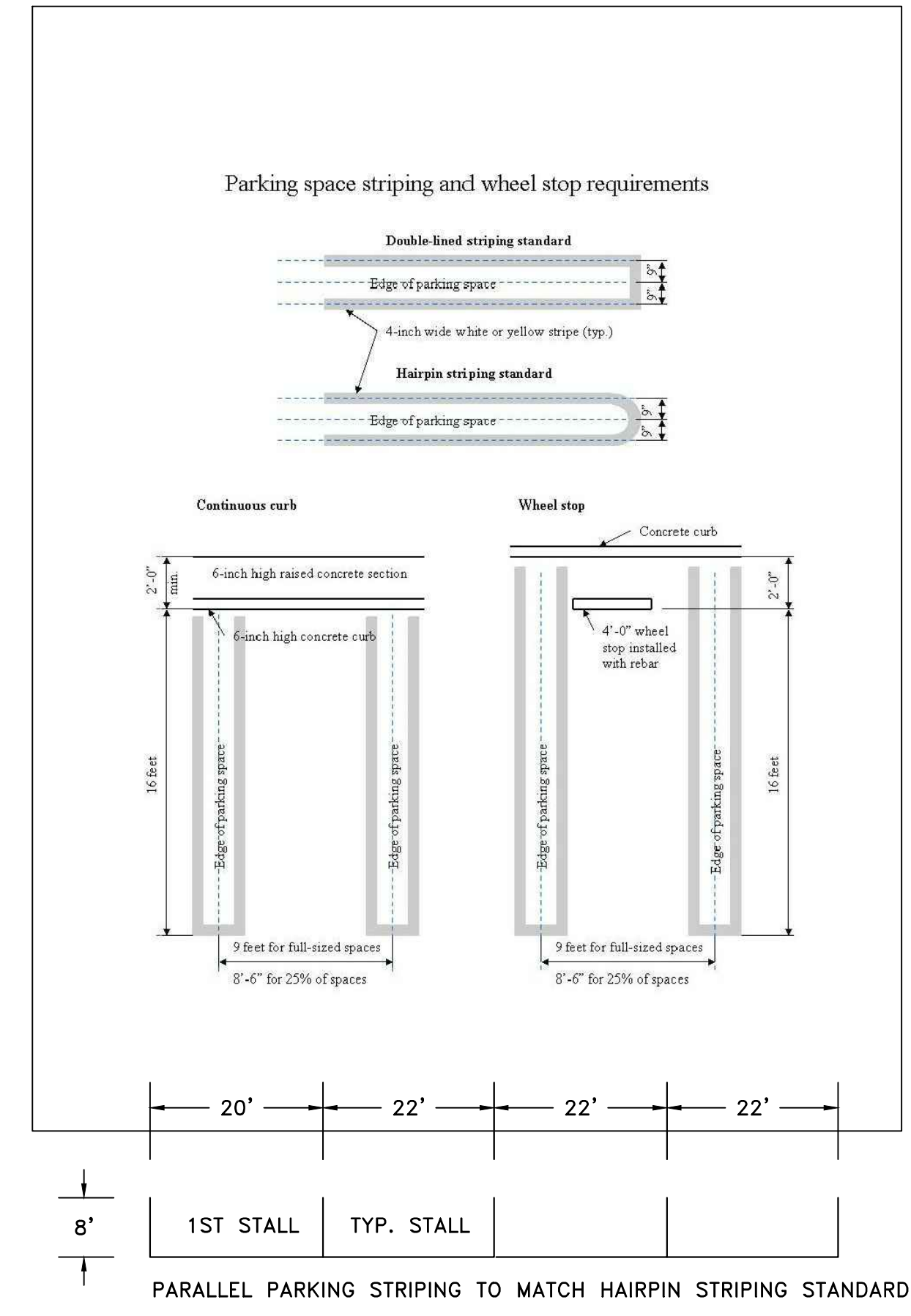
TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES
76-100	8

CGC 5.106.5.2.1 PARKING STALL MARKING. PAINT, IN THE PAINT USED FOR STALL STRIPING, THE FOLLOWING CHARACTERS SUCH THAT THE LOWER EDGE OF THE LAST WORD ALIGNS WITH THE END OF THE STALL STRIPING AND IS VISIBLE BENEATH A PARKED VEHICLE: CLEAN AIR/ VANPOOL/EV

NOTE: VEHICLES BEARING CLEAN AIR VEHICLE STICKERS FROM EXPIRED HOV LANE PROGRAMS MAY BE CONSIDERED ELIGIBLE FOR DESIGNATED PARKING SPACES.



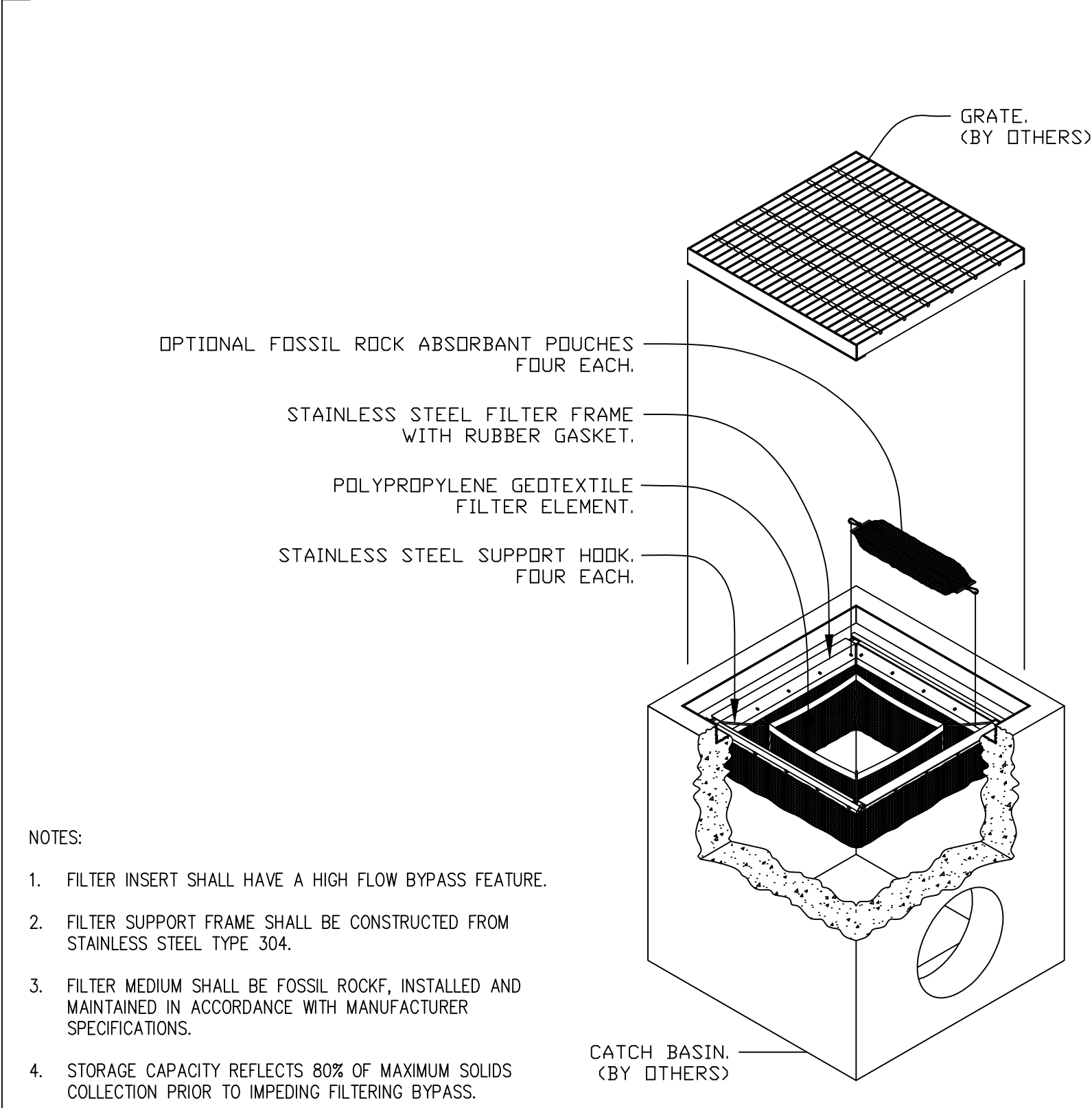
CLEAN AIR / VANPOOL / EV PARKING DETAIL
NOTE: MARKED EV OR CAV PER PLAN
NOT TO SCALE



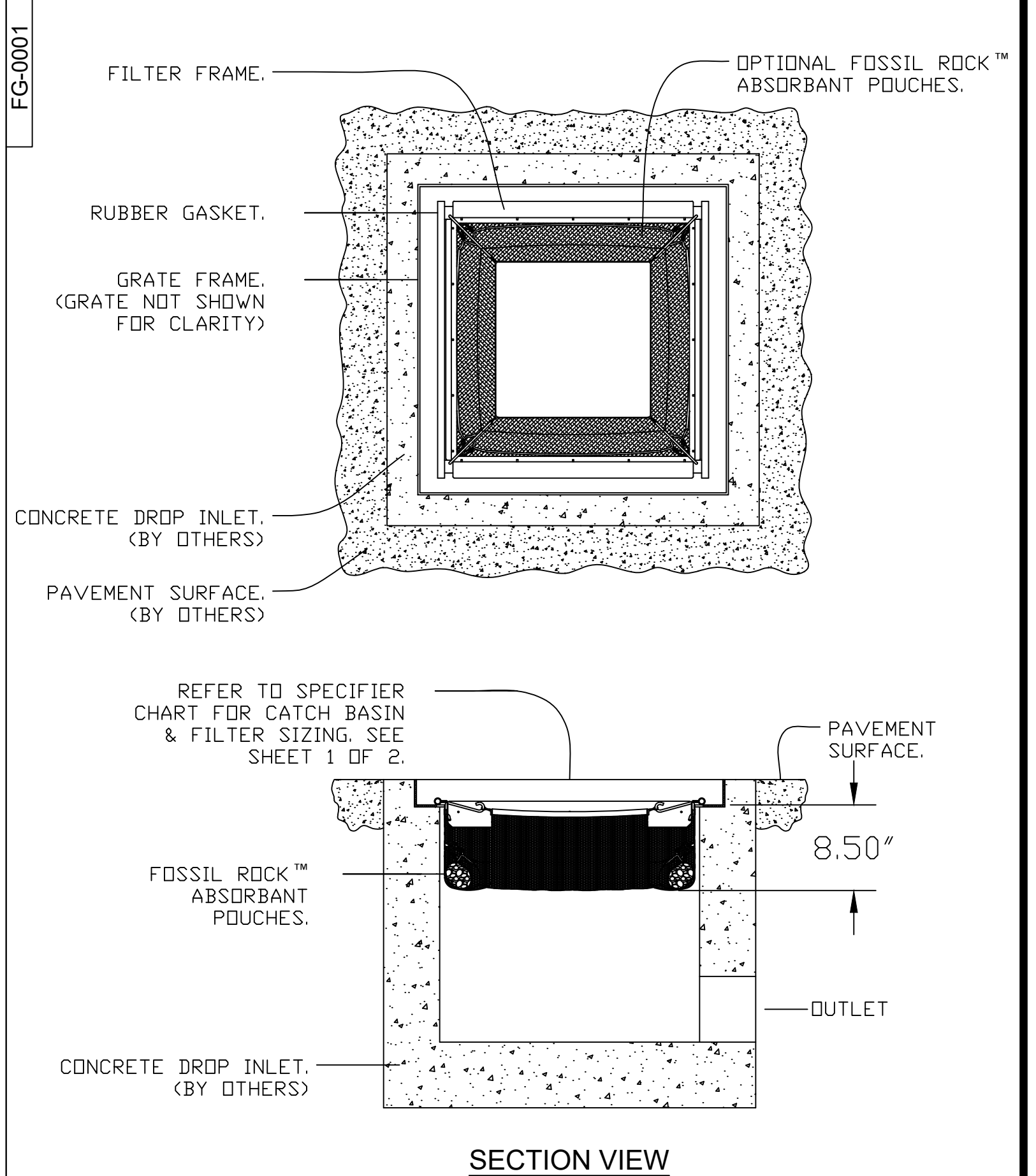
18 TYPICAL PARKING LOT STRIPING DETAILS
NOT TO SCALE

FG-001 SPECIFIER CHART

MODEL	INLET ID	GRATE OD	COMMENTS
FF-24D	24" X 24"	26" X 26"	GRATED INLET



- NOTES:**
- FILTER INSERT SHALL HAVE A HIGH FLOW BYPASS FEATURE.
 - FILTER SUPPORT FRAME SHALL BE CONSTRUCTED FROM STAINLESS STEEL TYPE 304.
 - FILTER MEDIUM SHALL BE FOSSIL ROCK, INSTALLED AND MAINTAINED IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.
 - STORAGE CAPACITY REFLECTS 80% OF MAXIMUM SOLIDS COLLECTION PRIOR TO IMPEDING FILTERING BYPASS.

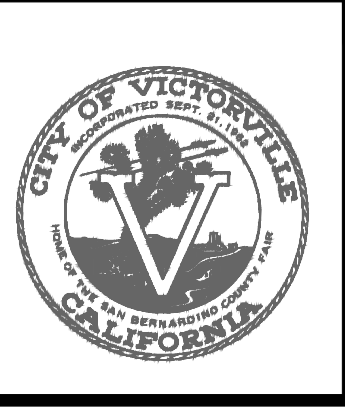


19 FloGard Catch Basin Insert Filter Grated Inlet Style
Oldcastle Stormwater Solutions
7921 Southpark Plaza, Suite 200 | Littleton, CO | 80120 | Ph: 800.579.8819 | oldcastlestormwater.com
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DRAWING NO. FG-0001 REV. ECD-0142 DATE JPR 12/18/06 SHEET 1 OF 2

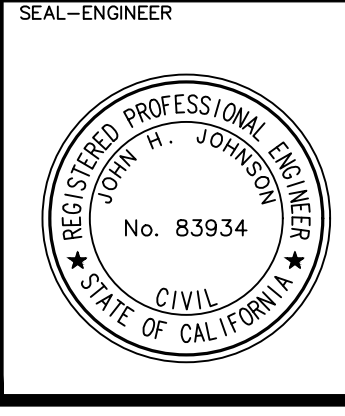
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MARK	BY	DATE	REVISIONS	APPR.	DATE



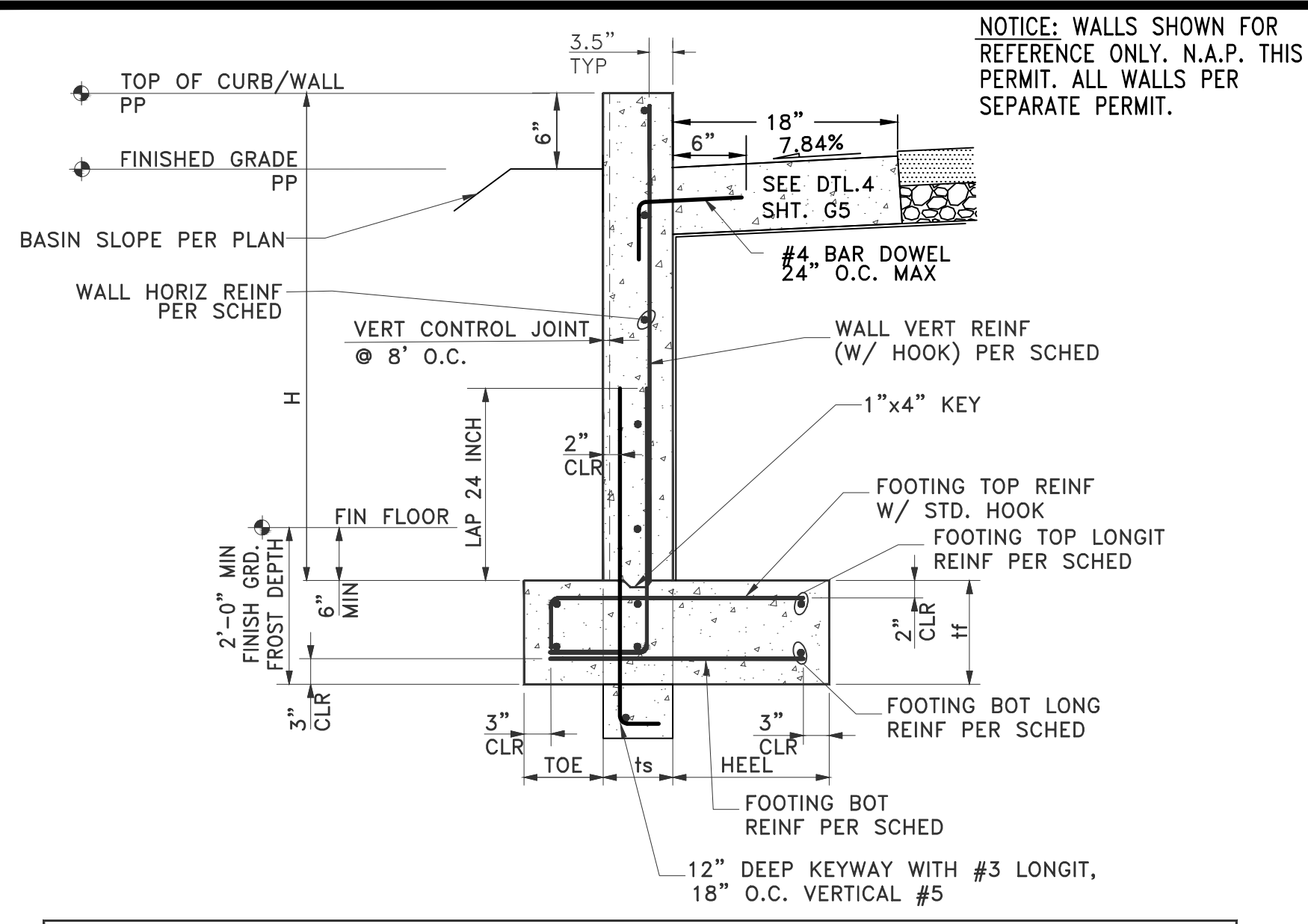
CITY CASE NO. BLDC19-00180
CITY OF VICTORVILLE ENGINEERING DEPARTMENT
14343 Civic Drive, Victorville, CA 92392 (760) 955-5000
Approved By: Brian W. Gengler, RCE C44730 City Engineer



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27919 JEFFERSON AVE., STE. 201, TEMECULA, CA 92590
PHONE: (951) 252-1034 WEB: WWW.KOLIBRIEN.BIZ
PREPARED BY: JOHN H. JOHNSON, R.C.E., NO. 83934 DATE: 03/05/2020

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CITY OF VICTORVILLE BENCHMARK V-212, LA MESA RD. AND HIGHWAY 395: 146 FT EAST OF EAST EP OF HWY 395 AND 87 FT SOUTHWEST OF FIRE HYDRANT ELEVATION = 3248.52 (NAVD 29).

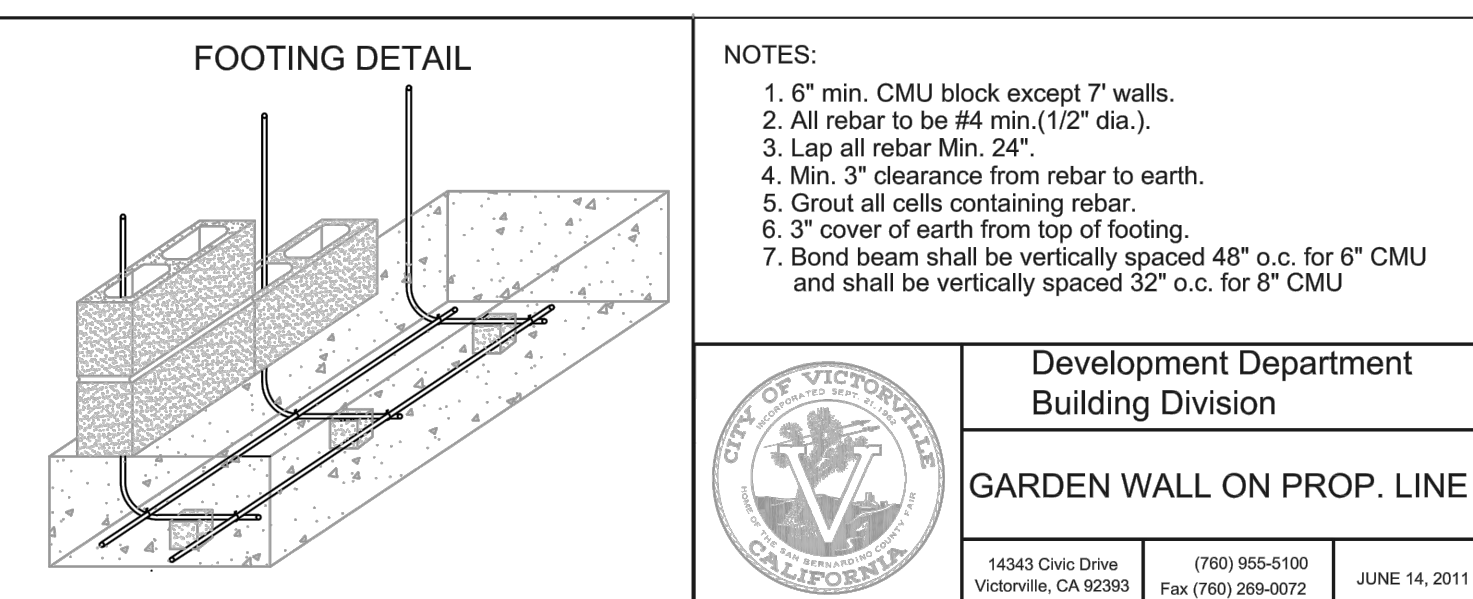
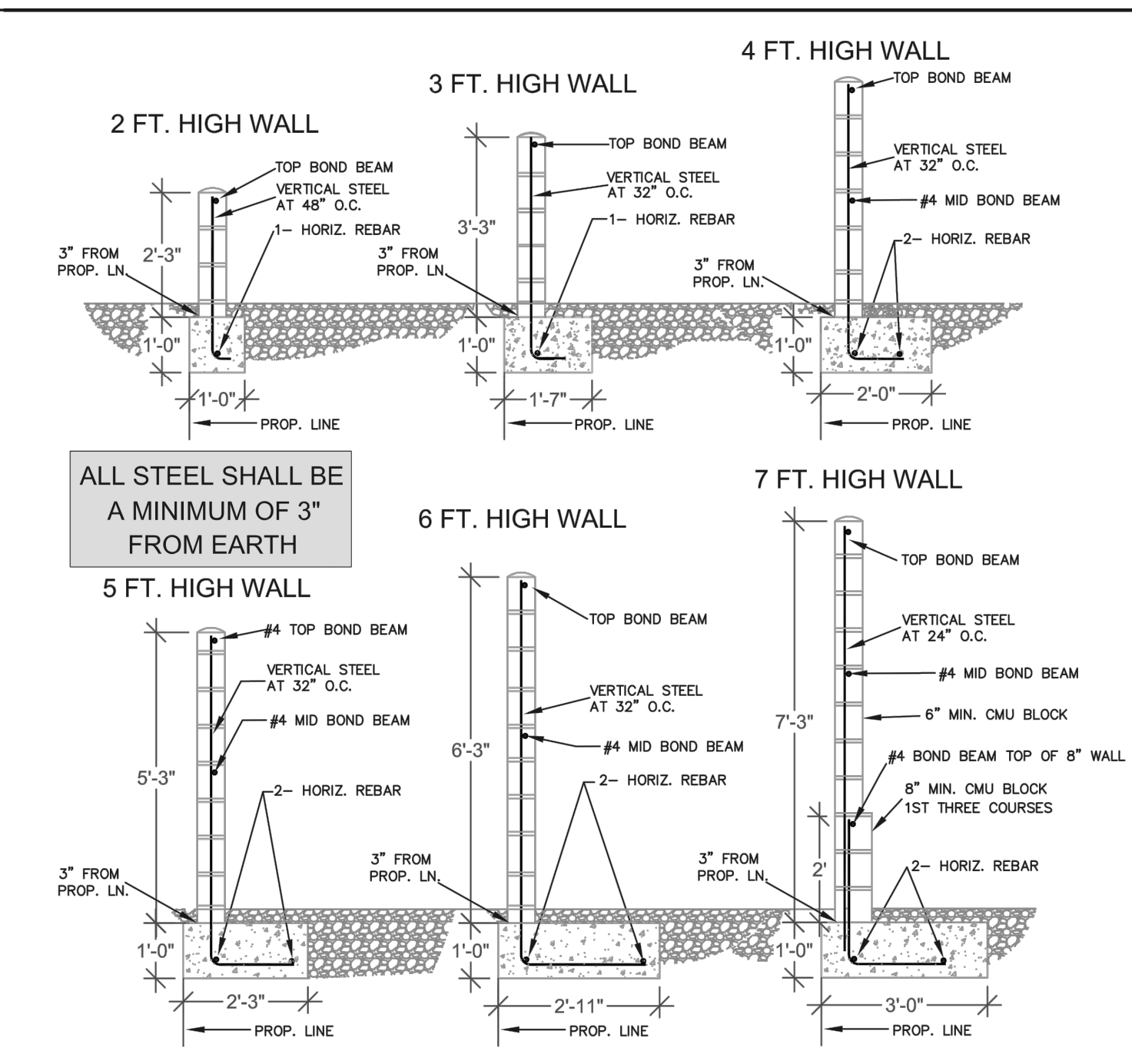
DRAWN	PM&RD	BLDC19-00180	SHEET NO.
DESIGNED	JJ	CITY OF VICTORVILLE	8
CHECKED	JJ	DESERT TRAILS PREPARATORY ACADEMY MIDDLE SCHOOL	OF 16 SHEETS
SCALE	AS NOTED	ONSITE IMPROVEMENT PLANS	FILE NO.
JOB NUMBER	D03002	DETAILS	
DATE	12-02-2019	FOR: DESERT TRAILS	D-2



NOTICE: WALLS SHOWN FOR REFERENCE ONLY. N.A.P. THIS PERMIT. ALL WALLS PER SEPARATE PERMIT.

RETAINING WALL/FOOTING SCHEDULE									
4,000 PSI CONC.									
H	WALL/FOOTING SIZES			WALL REINFORCEMENT		FOOTING REINFORCEMENT			
	TOE	ts	HEEL	VERTICAL	HORIZONTAL	TOP	TOP/LONGIT	BOTTOM/LONGIT	BOTTOM
4'-0"	1'-0"	8"	2'-0"	#5@-18"OC	#4@-24"OC	#4@-18"OC	3EA #3	3EA #3	#4@-18"OC

21 DETAIL - BASIN CURB RETAINING WALL
NOT TO SCALE
FOR REFERENCE ONLY, NAP THIS PERMIT



- NOTES:
- 6" min. CMU block except 7' walls.
 - All rebar to be #4 min. (1/2" dia.).
 - Lap all rebar Min. 24".
 - Min. 3" clearance from rebar to earth.
 - Grout all cells containing rebar.
 - 3" cover of earth from top of footing.
 - Bond beam shall be vertically spaced 48" o.c. for 6" CMU and shall be vertically spaced 32" o.c. for 8" CMU

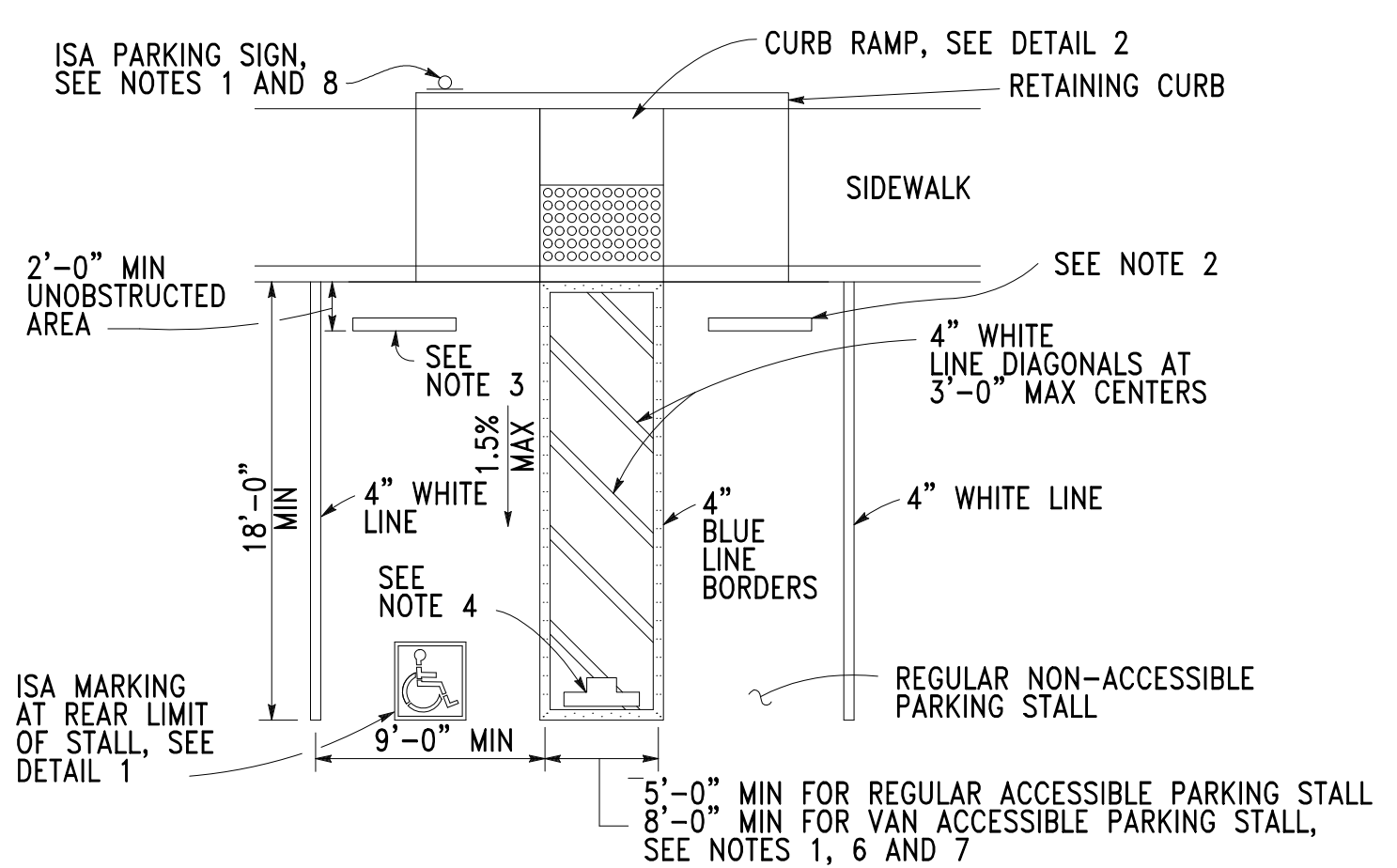
Development Department
Building Division

GARDEN WALL ON PROP. LINE

14343 Civic Drive (760) 955-5100
Victorville, CA 92393 Fax (760) 269-0072 JUNE 14, 2011

NOTICE: ELIMINATE MORTAR IN ALL VERTICAL JOINTS AT AT FINISHED GRADE ALONG SOUTHERLY WALL ONLY TO ALLOW FOR THROUGH WALL NUISANCE NATURAL DRAINAGE AT EX. ADJACENT LOTS.

22 CMU BLOCK GARDEN WALL DETAIL
NOT TO SCALE FOR REFERENCE ONLY, NAP THIS PERMIT



WHITE ISA
WHITE BORDER
BLUE BACKGROUND

ISA MARKING PER CALTRANS DETAIL A24C

DETAIL 1 NTS

R99C NTS

R100B NTS

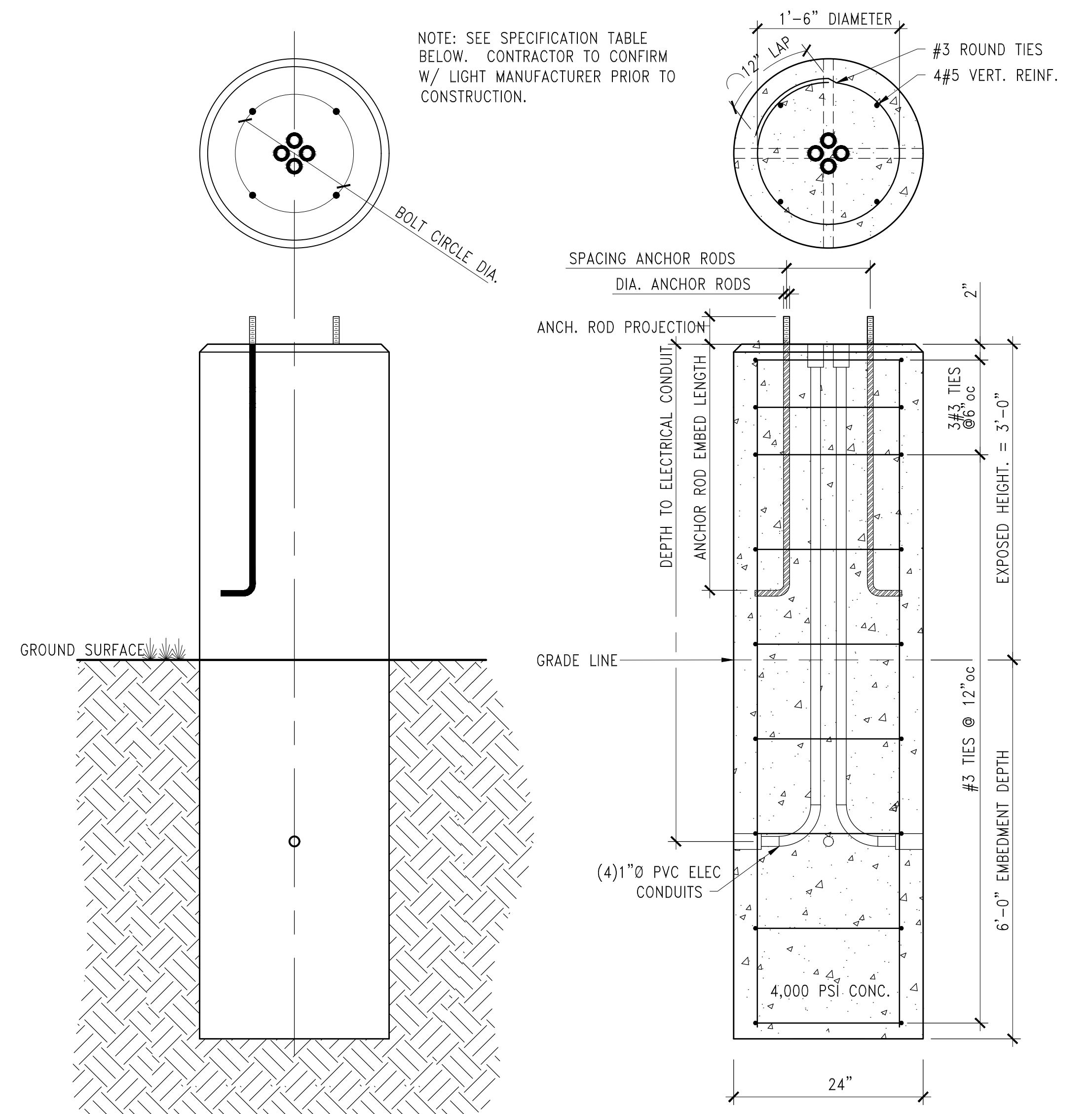
R7-8B NTS

UNAUTHORIZED VEHICLES PARKED IN DESIGNATED ACCESSIBLE SPACES NOT DISPLAYING DISTINGUISHING PLACARDS OR SPECIAL LICENSE PLATES ISSUED FOR PERSONS WITH DISABILITIES WILL BE TOWED AWAY AT THE OWNER'S EXPENSE. TOWED VEHICLES MAY BE RECLAIMED AT (Insert Address) OR BY TELEPHONING (Insert Telephone Number)

VAN ACCESSIBLE

20 ADA PARKING STALL DETAILS
NOT TO SCALE

- NOTES:
- ONE IN EVERY SIX ACCESSIBLE PARKING STALLS, BUT NOT LESS THAN ONE, SHALL BE SERVED BY AN ACCESSIBLE AISLE OF 8'-0" MINIMUM WIDTH AND SHALL BE SIGNED VAN ACCESSIBLE. THE R7-8B SIGN SHALL BE MOUNTED BELOW THE THE R99C SIGN.
 - IN EACH PARKING STALL, A CURB OR PARKING BUMPER SHALL BE PROVIDED TO PREVENT ENCROACHMENT OF VEHICLES OVER THE REQUIRED WIDTH OF WALKWAYS. PARKING STALLS SHALL BE SO LOCATED THAT PERSONS WITH DISABILITIES ARE NOT COMPELLED TO WHEEL OR WALK BEHIND PARKED VEHICLES OTHER THAN THEIR OWN. FOR MORE PARKING BUMPER REQUIREMENTS, SEE THE SPECIAL PROVISIONS.
 - WHERE SIGN R99C OR SIGN R7-8B ARE INSTALLED, THE BOTTOM OF THE SIGN OR PLAQUE PANEL SHALL BE A MINIMUM OF 7'-0" ABOVE THE SURROUNDING SURFACE.
 - THE WORDS "NO PARKING", SHALL BE PAINTED IN WHITE LETTERS NO LESS THAN 1'-0" HIGH AND LOCATED SO THAT IT IS VISIBLE TO TRAFFIC ENFORCEMENT OFFICIALS. SEE CALTRANS STANDARD PLAN A90B FOR DETAILS OF THE "NO PARKING" PAVEMENT MARKING.
 - A R100B SIGN SHALL BE POSTED IN A CONSPICUOUS PLACE AT EACH ENTRANCE TO OFF-STREET PARKING FACILITIES OR IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL. THE SIGN SHALL INCLUDE THE ADDRESS WHERE THE TOWED VEHICLE MAY BE RECLAIMED AND THE TELEPHONE NUMBER OF THE LOCAL TRAFFIC LAW ENFORCEMENT AGENCY.
 - WHERE A SINGLE (NON-VAN) ACCESSIBLE PARKING SPACE IS PROVIDED, THE LOADING AND UNLOADING ACCESS AISLE SHALL BE ON THE PASSENGER SIDE OF THE VEHICLE AS THE VEHICLE IS GOING FORWARD INTO THE PARKING SPACE.
 - WHERE A VAN ACCESSIBLE PARKING SPACE IS PROVIDED, THE LOADING AND UNLOADING ACCESS AISLE SHALL BE 8'-0" WIDE MINIMUM, AND SHALL BE ON THE PASSENGER SIDE OF THE VEHICLE AS THE VEHICLE IS GOING FORWARD INTO THE PARKING SPACE.
 - ACCESSIBLE PARKING ONLY SIGN SHALL BE SIGN R99C.



23 DETAIL - LIGHT POLE FOUNDATION & ANCHORAGE
SCALE: 1" = 1'-0"

SPECIFICATIONS	
STEEL REINFORCING BARS - ASTM A615 OR ASTM A706 (LOW ALLOY "WELDABLE"), GRADE 60	
VERTICAL BARS	(4) #5 (#16) BARS, 1.5" MINIMUM COVER
HORIZONTAL ROUND TIES	#3 (#10) BARS, TOP (3) SPACED AT 6", BALANCE SPACED AT 12" TO BOTTOM OF BASE
ANCHOR RODS	
CUSTOM OPTION	RODS SUPPLIED BY LIGHT POLE MANUFACTURER, INSTALLED TO SPECIFIED PATTERN AND PROJECTION
STANDARD OPTION	4 EA 3/4" DIA. RODS, ASTM A36, GALVANIZED PER ASTM A123 CLASS C
	10 THREADS PER INCH, 30" LONG WITH ADDITIONAL 4" (100 mm) 90° BEND
	INSTALLED IN A 8.5" OR 11" BOLT CIRCLE PATTERN, 4" PROJECTION
PVC ELECTRICAL CONDUIT	
CUSTOM OPTION	CONDUIT NUMBER, DIAMETER, CONFIGURATION, AND MATERIAL INSTALLED PER ELECTRICAL ENGINEER
STANDARD OPTION	(4) 1" DIA. CONDUITS WITH 90° BENDS, ASTM F512, INSTALLED AT CARDINAL POINTS, AND COUPLERS, ASTM F512, AT ALL CONDUIT EXIT POINTS ON TOP AND SIDES OF BASE. CONDUITS TERMINATE AT THE SIDES OF THE BASE 24" BELOW THE FINISHED TEXTURE PORTION OF THE UNIT.

Date: 08 May 20 - 8:56 am File: C:\temp\draw\KOLIBRIEN - SHARING\Draw\Trails\CAD\00001 - ONSITE IMPROVEMENTS - DETAILS.rvt

DIG ALERT

DIAL BEFORE YOU DIG

TWO WORKING DAYS BEFORE YOU DIG

TOLL FREE 811

A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

MARK	BY	DATE	REVISIONS	APPR.	DATE

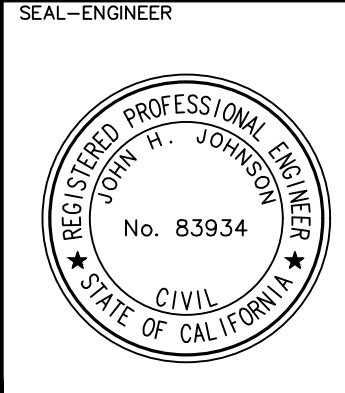


CITY CASE NO. BLDC19-00180

CITY OF VICTORVILLE
ENGINEERING DEPARTMENT

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



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PREPARED BY: John H. Johnson, R.C.E. NO. 83934
DATE: 03/05/2020

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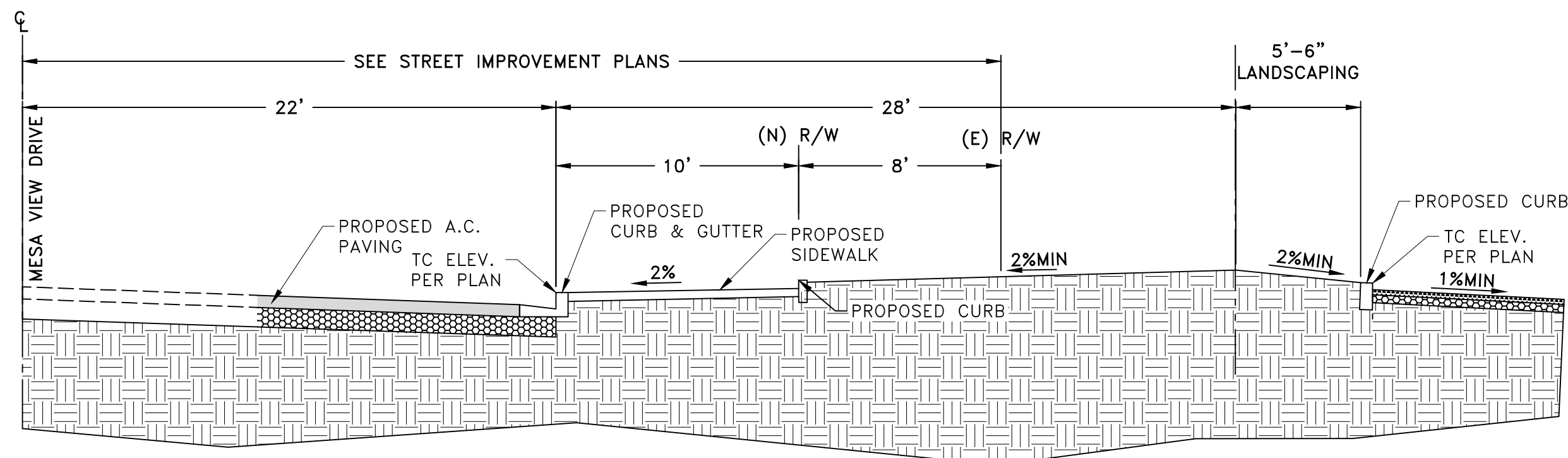
DRAWN PM&RD
DESIGNED JJ
CHECKED JJ
SCALE AS NOTED
JOB NUMBER D03002
DATE 12-02-2019

BLDC19-00180

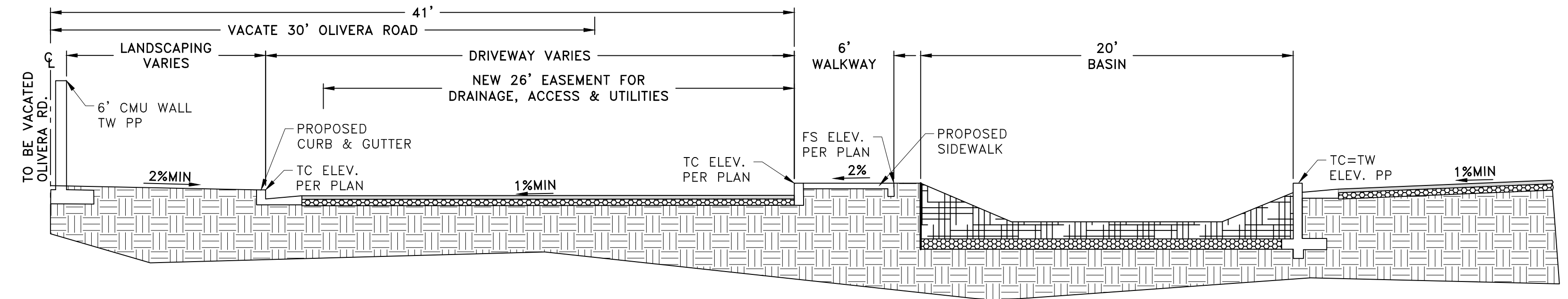
CITY OF VICTORVILLE
DESERT TRAILS PREPARATORY ACADEMY MIDDLE SCHOOL
ONSITE IMPROVEMENT PLANS
DETAILS

FOR: DESERT TRAILS W.O. CITY JOB NO.

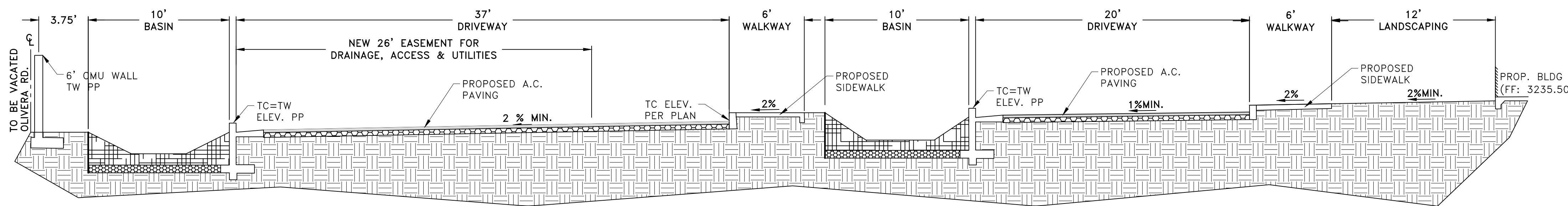
SHEET NO. **9**
OF 16 SHEETS
FILE NO. **D-3**



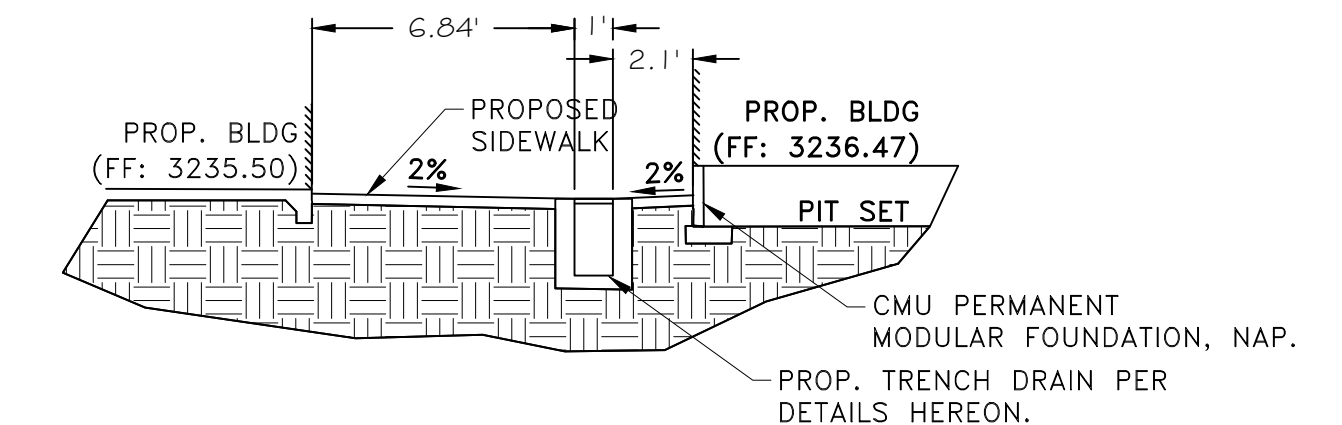
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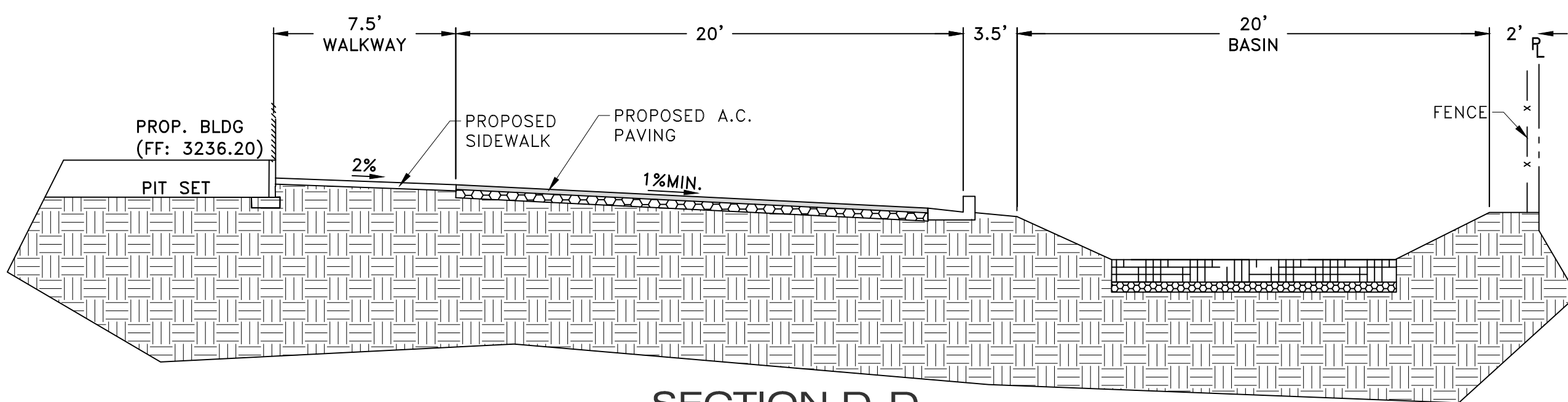
SECTION B-B
SCALE 1"=5'



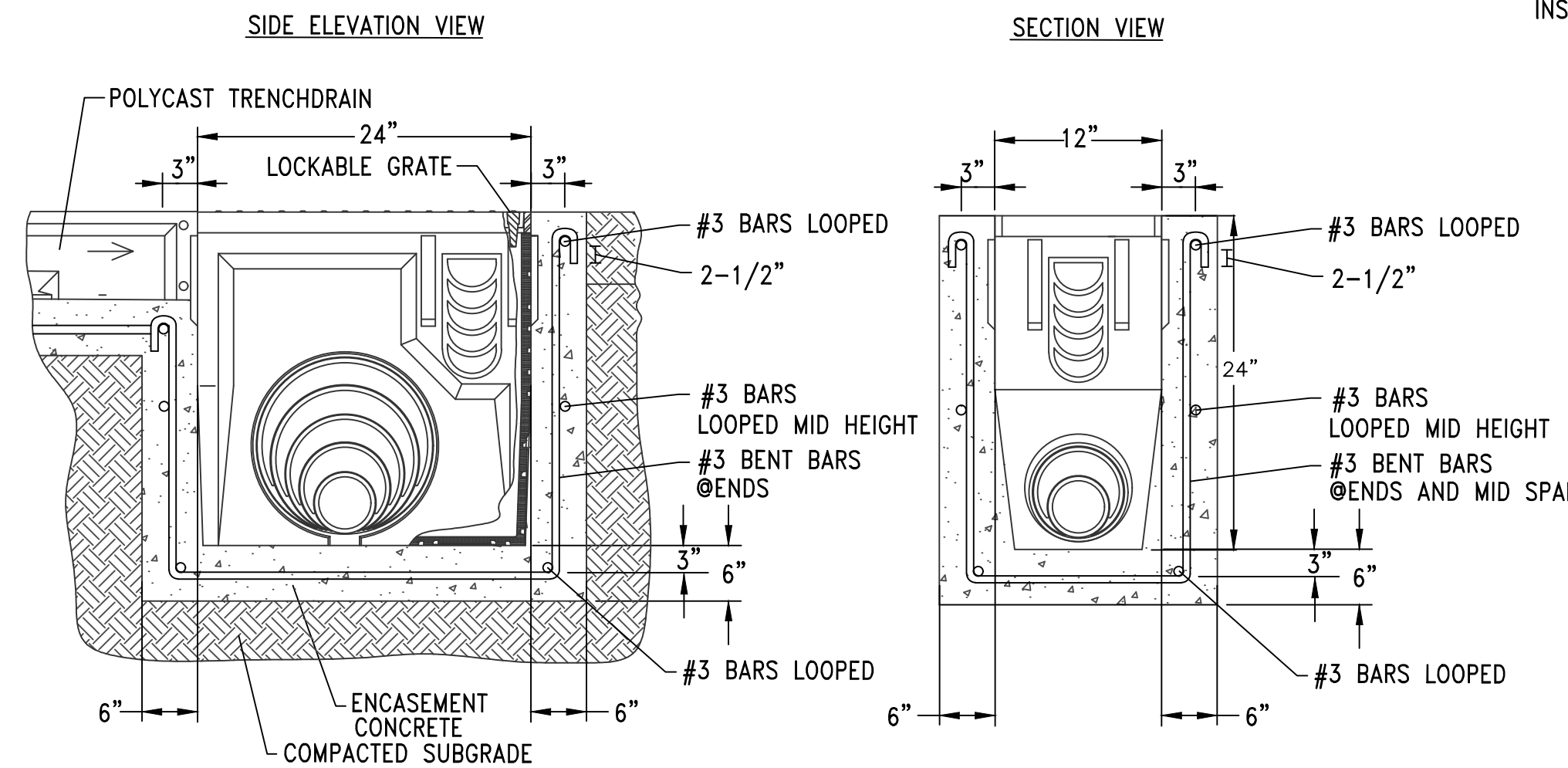
SECTION C-C
SCALE 1"=5'



SECTION F-F
SCALE 1"=5'

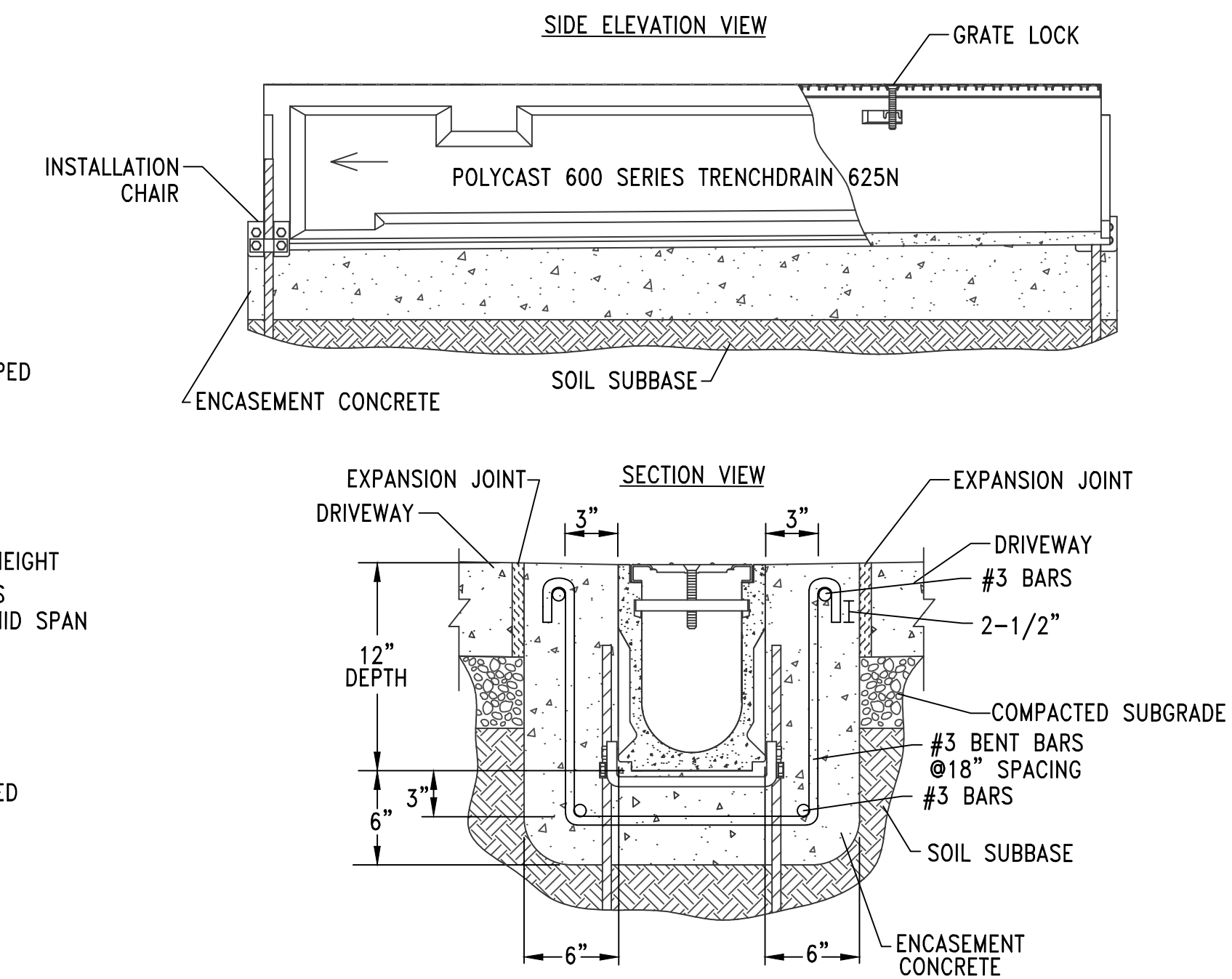


SECTION D-D
SCALE 1"=5'



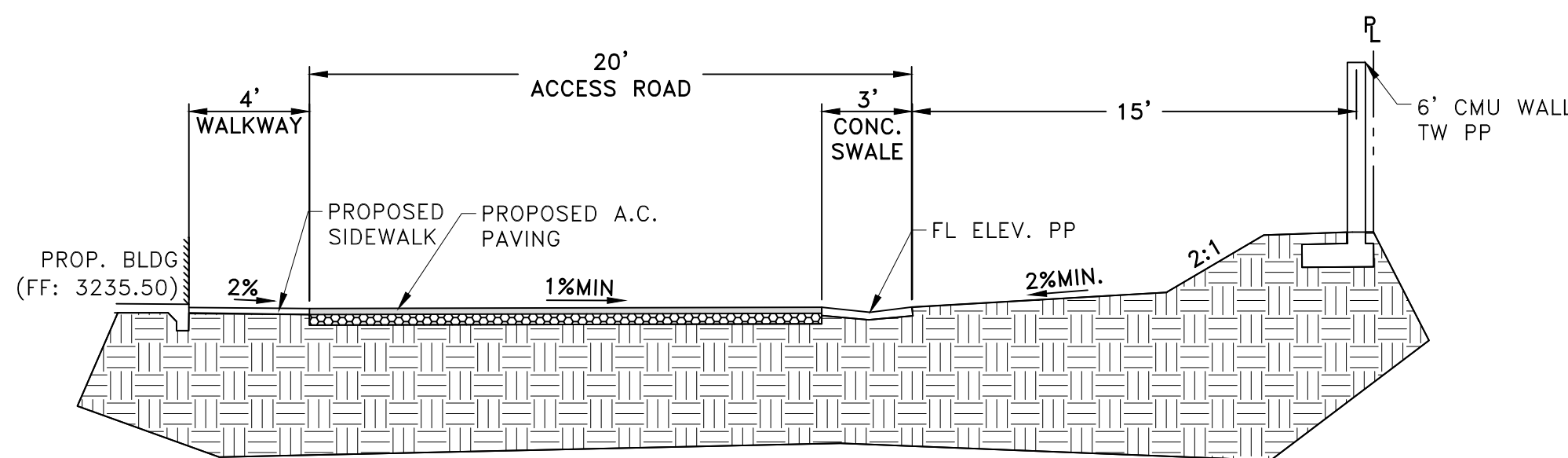
- NOTES:**
- 2,500 PSI MINIMUM STRENGTH CONCRETE, #3 BARS AS SHOWN, 3" CLEAR SPACING AS SHOWN, EXTEND BENT REBAR AROUND TOP BAR 2-1/2" DOWNWARD.
 - REFER TO HUBBELL POLYCAST® INSTALLATION GUIDE FOR COMPLETE DETAILS.
 - USE DUCTILE IRON LOCKABLE GRATE DG0685HD
 - USE TRAFFIC RATED GALVANIZED SLOTTED STEEL GRATE DG0640.
 - USE CUTOUT FOR 600 SERIES 625N NEUTRAL CHANNELS.
 - USE CUTOUT FOR 6" OUTLET DRAINAGE PIPE AS SHOWN ON PLANS.

HUBBELL 651 CATCH BASIN
NOT TO SCALE
OR EQUAL



- NOTES:**
- 2,500 PSI MINIMUM STRENGTH CONCRETE, #3 BARS AS SHOWN, 3" CLEAR SPACING AS SHOWN, EXTEND BENT REBAR AROUND TOP BAR 2-1/2" DOWNWARD.
 - REFER TO HUBBELL POLYCAST® INSTALLATION GUIDE FOR COMPLETE DETAILS.
 - 12" DEPTH WITH NEUTRAL CHANNELS TO ALIGN WITH PROPOSED SLOPES.
 - USE TRAFFIC RATED GALVANIZED SLOTTED STEEL GRATE DG0640.
 - USE GALVANIZED LOCKING DEVICE FOR GRATE DRAIN DA0642.
 - USE 6" DRAIN OUTLETS AT BASIN CONNECTIONS DA0620D6.
 - USE 12" X 24" CATCH BASIN DP0651 PER BASIN DETAIL.

HUBBELL 600 TRENCHDRAIN
NOT TO SCALE
OR EQUAL



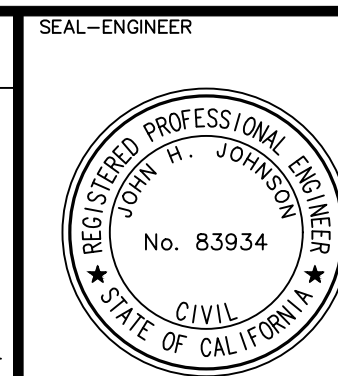
SECTION E-E
SCALE 1"=5'



MARK	BY	DATE	REVISIONS	APPR.	DATE



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



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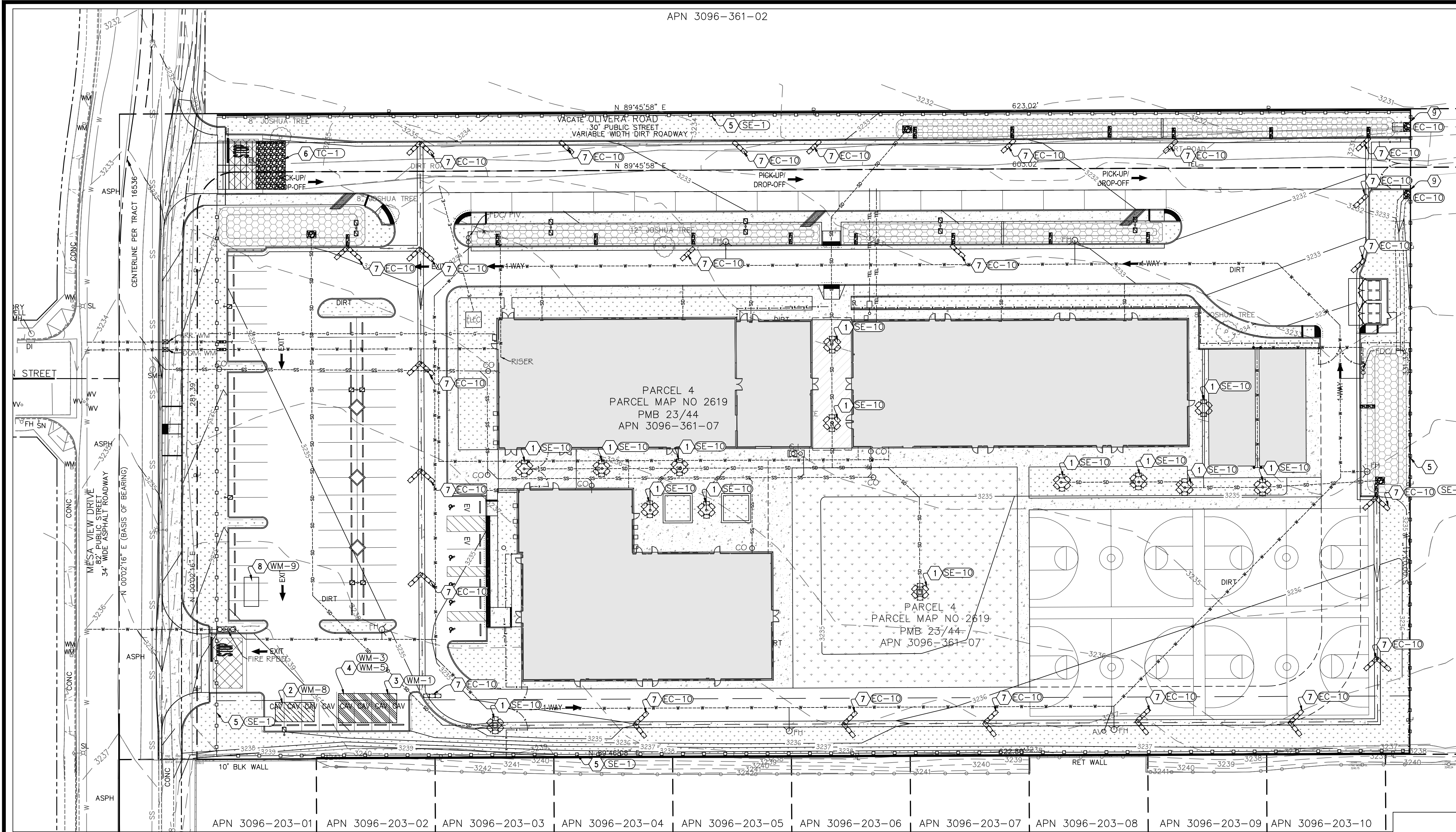
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DRAWN PM&RD
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CHECKED JJ
SCALE AS NOTED
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CROSS SECTIONS
FOR: DESERT TRAILS W.O. CITY JOB NO.

SHEET NO. **10**
OF 16 SHEETS
FILE NO. **D-4**

Date: 08 May 20 - 9:56 am File: C:\temp\desert\trails\colibrien_sherwin\Desert_Trails\CAD\00001_ONSITE_IMPROVEMENTS_DETAILS.rvt



EROSION CONTROL NOTES:

1. IN CASE OF EMERGENCY, CALL BLAKE SCOTT BMP CONTRACTORS, INC. AT 951.397.6637
2. A STAND-BY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON (NOVEMBER 1 THRU APRIL 15). NECESSARY MATERIALS SHALL BE AVAILABLE ON-SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF EMERGENCY DEVICES WHEN RAIN IS IMMINENT.
3. EROSION CONTROL DEVICES SHOWN ON THIS PLAN MAY BE REMOVED WHEN APPROVED BY THE BUILDING OFFICIAL IF THE GRADING OPERATION HAS PROGRESSED TO THE POINT WHERE THEY ARE NO LONGER REQUIRED.
4. GRADED AREAS ADJACENT TO FILL SLOPES LOCATED AT THE SITE PERIMETER MUST DRAIN AWAY FROM THE TOP OF SLOPE AT THE CONCLUSION OF EACH WORKING DAY. ALL LOOSE SOILS AND DEBRIS THAT MAY CREATE A POTENTIAL TO OFF-SITE PROPERTY SHALL BE STABILIZED OR REMOVED FROM THE SITE ON A DAILY BASIS.
5. ALL SILT AND DEBRIS SHALL BE REMOVED FROM ALL DEVICES WITHIN 24 HOURS AFTER EACH RAINSTORM AND BE DISPOSED OF PROPERLY.
6. A GUARD SHALL BE POSTED ON THE SITE WHENEVER THE DEPTH OF WATER IN ANY DEVICE EXCEEDS TWO FEET. THE DEVICE SHALL BE DRAINED OR PUMPED DRY WITHIN 24 HOURS AFTER EACH RAINSTORM. PUMPING AND DRAINING OF ALL BASINS AND DRAINAGE DEVICES MUST COMPLY WITH THE APPROPRIATE BMP OF RAIN DEWATERING OPERATIONS.
7. THE PLACEMENT OF ADDITIONAL DEVICES TO REDUCE EROSION DAMAGE AND CONTAIN POLLUTANTS WITHIN THE SITE IS LEFT TO DISCRETION OF THE FIELD ENGINEER. ADDITIONAL DEVICES AS NEEDED SHALL BE INSTALLED TO RETAIN SEDIMENTS AND OTHER POLLUTANTS ON SITE.
8. DESILTING BASINS MAY NOT BE REMOVED OR MADE INOPERABLE BETWEEN NOVEMBER 1 AND APRIL 15 OF THE FOLLOWING YEAR WITHOUT THE APPROVAL OF THE BUILDING OFFICIAL.
9. STORM WATER POLLUTION AND EROSION CONTROL DEVICES ARE TO BE MODIFIED, AS NEEDED, AS THE PROJECT PROGRESSES. THE DESIGN AND PLACEMENT OF THESE DEVICES IS THE RESPONSIBILITY OF THE FIELD ENGINEER. PLANS REPRESENTING CHANGES MUST BE SUBMITTED FOR APPROVAL IF REQUESTED BY THE BUILDING OFFICIAL.
10. EVERY EFFORT SHOULD BE MADE TO ELIMINATE THE DISCHARGE OF THE NON-STORM WATER FROM THE PROJECT SITE AT ALL TIMES.
11. ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON-SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES, OR WIND.
12. STOCKPILE OR EARTH AND OTHER CONSTRUCTION-RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY FORCES OF WIND OR WATER
13. FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTED AND ARE NOT TO CONTAMINATE THE SOILS AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM.
14. EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTE ON-SITE UNTIL THEY CAN BE DISPOSED OF A SOLID WASTE.
15. DEVELOPER/CONTRACTORS ARE RESPONSIBLE TO INSPECT ALL EROSION CONTROL DEVICES AND BMPs ARE INSTALLED AND FUNCTIONING PROPERTY IF THERE IS A 40% ACTUAL PRECIPITATION. A CONSTRUCTION SITE INSPECTION CHECKLIST AND ACTUAL PRECIPITATION, AND AFTER ACTUAL PRECIPITATION. A CONSTRUCTION SITE INSPECTION CHECKLIST AND INSPECTION LOG SHALL BE MAINTAINED AT THE PROJECT SITE AT ALL TIMES AND AVAILABLE FOR REVIEW BY THE BUILDING OFFICIAL (COPIES OF THE SELF-INSPECTION CHECK LIST AND INSPECTION LOGS ARE AVAILABLE UPON REQUEST).
16. TRASH AND CONSTRUCTION-RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
17. SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENT FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITION MUST BE SWEEPED UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
18. ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.
19. AS THE ARCHITECT/ENGINEER OR RECORD, I HAVE SELECTED APPROPRIATE BMPs TO EFFECTIVELY MINIMIZE THE NEGATIVE IMPACTS OF THIS PROJECT'S CONSTRUCTION ACTIVITIES ON STORM WATER QUALITY. THE PROJECT OWNER AND CONTRACTOR ARE AWARE THAT THE SELECTED BMPs MUST BE INSTALLED, MONITORED, AND MAINTAINED TO ENSURE THEIR EFFECTIVENESS. THE BMPs NOT SELECTED FOR IMPLEMENTATION ARE REDUNDANT OR DEEMED NOT APPLICABLE OF THE PROPOSED CONSTRUCTION ACTIVITY.

EROSION CONTROL CONSTRUCTION NOTES

QTY.

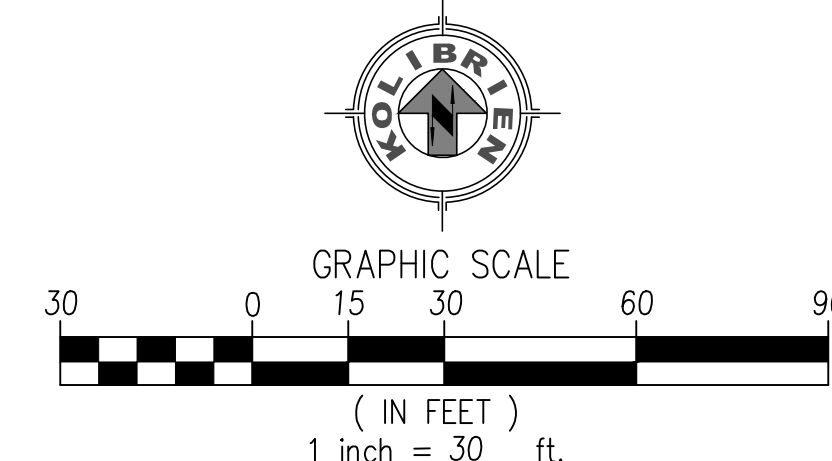
- | | | |
|---|---|-----------|
| ① | INSTALL DOUBLE ROW OF GRAVEL BAGS & INLET PROTECTION PER DETAIL 1 ON SHEET E-2 (SE-6 & SE-10 PER CASQA). | 149 EA |
| ② | INSTALL CONCRETE WASHOUT CONTAINER PER DETAIL 2 ON SHEET E-2 (WM-8 PER CASQA). | 1 EA |
| ③ | ESTABLISH EQUIPMENT & MATERIAL STORAGE AREA PER CALTRANS WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL BEST MANAGEMENT PRACTICES (WM-1 PER CASQA). | 1 L.S. |
| ④ | ESTABLISH STOCKPILE MANAGEMENT AREA PER CALTRANS WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL BEST MANAGEMENT PRACTICES (WM-3 & WM-5 PER CASQA). | 1 L.S. |
| ⑤ | INSTALL SILT FENCE PER DETAIL 3 ON SHEET E-2 (SE-1 PER CASQA). | 1,852 LF. |
| ⑥ | CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE PER DETAIL 4 ON SHEET E-2 (TC-1 PER CASQA). | 1 L.S. |
| ⑦ | INSTALL VELOCITY REDUCER PER DETAIL 1 ON SHEET E-2 (EC-10 PER CASQA). | 36 EA |
| ⑧ | INSTALL PORTABLE TOILET PER DETAIL 5 ON SHEET E-2 (WM-9 PER CASQA). | 1 EA |
| ⑨ | INSTALL VELOCITY REDUCER PER DETAIL 6 ON SHEET E-2 (EC-10 PER CASQA). RIP-RAP PADS ARE BOTH CONSTRUCTION AND POST-CONSTRUCTION BMPs. | 2 EA |

LEGEND:

- GRAVEL BAGS
- SILT FENCE
- CONCRETE WASHOUT
- EQUIPMENT & MATERIAL STORAGE AREA
- STABILIZED ENTRANCE
- PORTABLE TOILET

BMP LEGEND (CASQA):

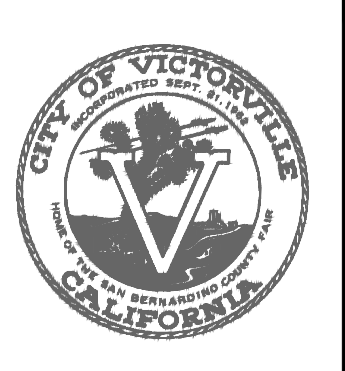
- SE-1 - SILT FENCES
- SE-5 - FIBER ROLLS
- SE-6 - GRAVEL BAG BERM
- SE-7 - STREET SWEEPING AND VACUUMING
- SE-10 - STORM INLET PROTECTION
- WM-1 - MATERIAL DELIVERY STORAGE
- WM-2 - MATERIAL USE
- WM-3 - STOCK PILE MANAGEMENT
- WM-5 - SOLID WASTE MANAGEMENT
- WM-9 - SANITARY/SEPTIC WASTE MANAGEMENT
- TC-1 - STABILIZED CONSTRUCTION ENTRANCE
- WE-1 - WIND EROSION CONTROL
- WM-8 - CONCRETE WASHOUT
- EC-10 - VELOCITY DISSIPATION DEVICES



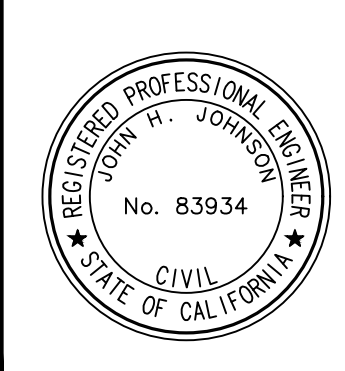
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MARK	BY	DATE	REVISIONS	APPR.	DATE



CITY CASE NO. BLDC19-00180
CITY OF VICTORVILLE ENGINEERING DEPARTMENT
14343 Civic Drive, Victorville, CA 92392 (760) 955-5000
Approved By: Brian W. Gengler, RCE C44730
City Engineer



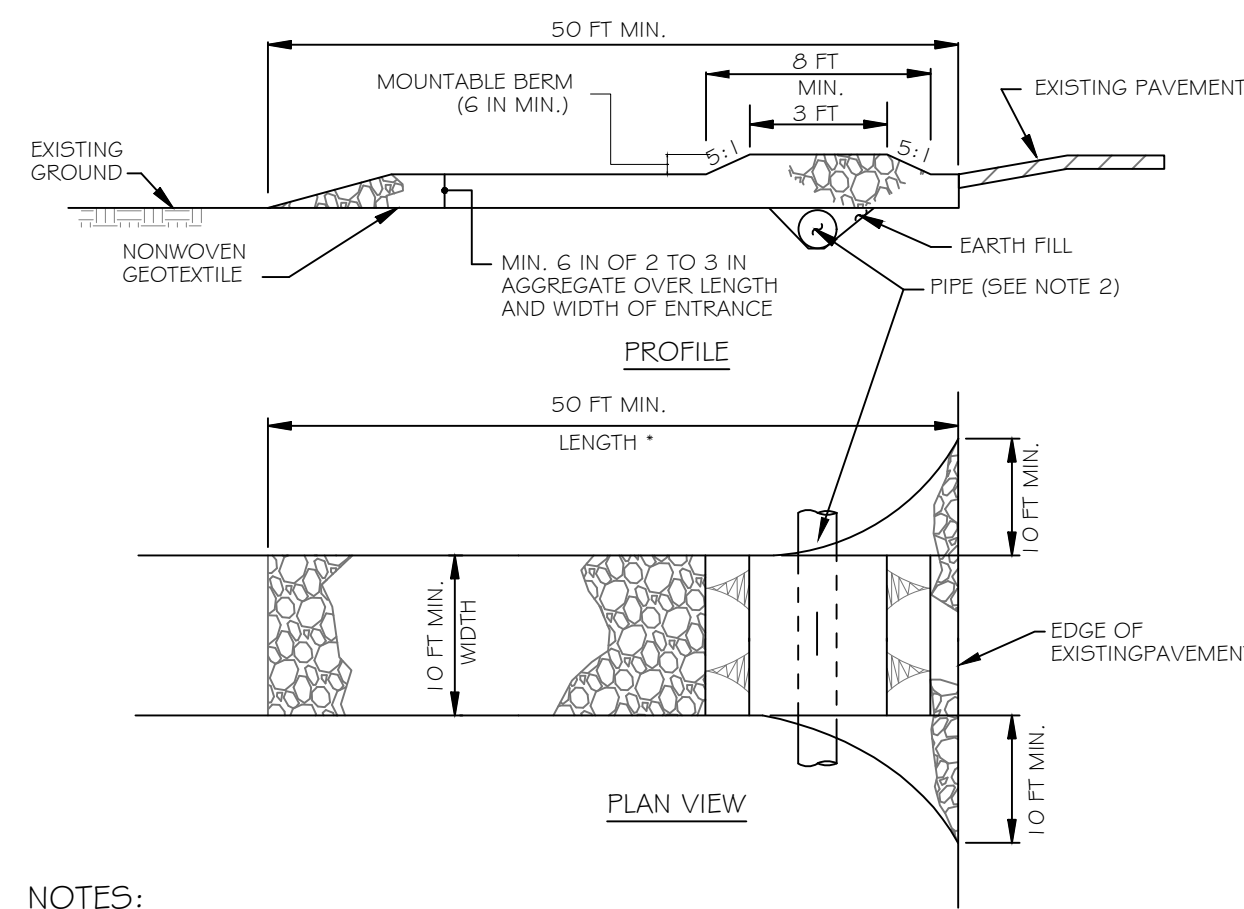
KOLIBRIEN CIVIL / STRUCTURAL / SURVEYING
27919 JEFFERSON AVE., STE. 201, TEMECULA, CA 92590
PHONE: (951) 252-1034 WEB: WWW.KOLIBRIEN.BIZ
PREPARED BY: John H. Johnson
R.C.E. NO. 83934 DATE: 03/05/2020

BENCHMARK:
CITY OF VICTORVILLE BENCHMARK V-212.
LA MESA RD. AND HIGHWAY 395: 146 FT EAST OF EP OF HWY 395 AND 87 FT SOUTHWEST OF FIRE HYDRANT ELEVATION = 3248.52 (NAVD 29).

BLDC19-00180
CITY OF VICTORVILLE
DESERT TRAILS PREPARATORY ACADEMY MIDDLE SCHOOL
ONSITE IMPROVEMENT PLANS
EROSION CONTROL PLAN

SHEET NO. **11**
OF 16 SHEETS
FILE NO. **E-1**

DATE: 12-02-2019	FOR: DESERT TRAILS	W.O.	CITY JOB NO.
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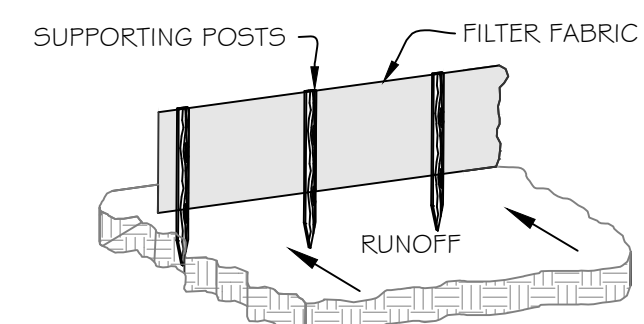
NOTES:

1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (*30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
2. (IF REQUIRED BY DRAINAGE PATTERNS) PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.
3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE FABRIC ON SUBGRADE.
4. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
5. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

STABILIZED CONSTRUCTION ENTRANCE

SCALE
NOT TO SCALE

4



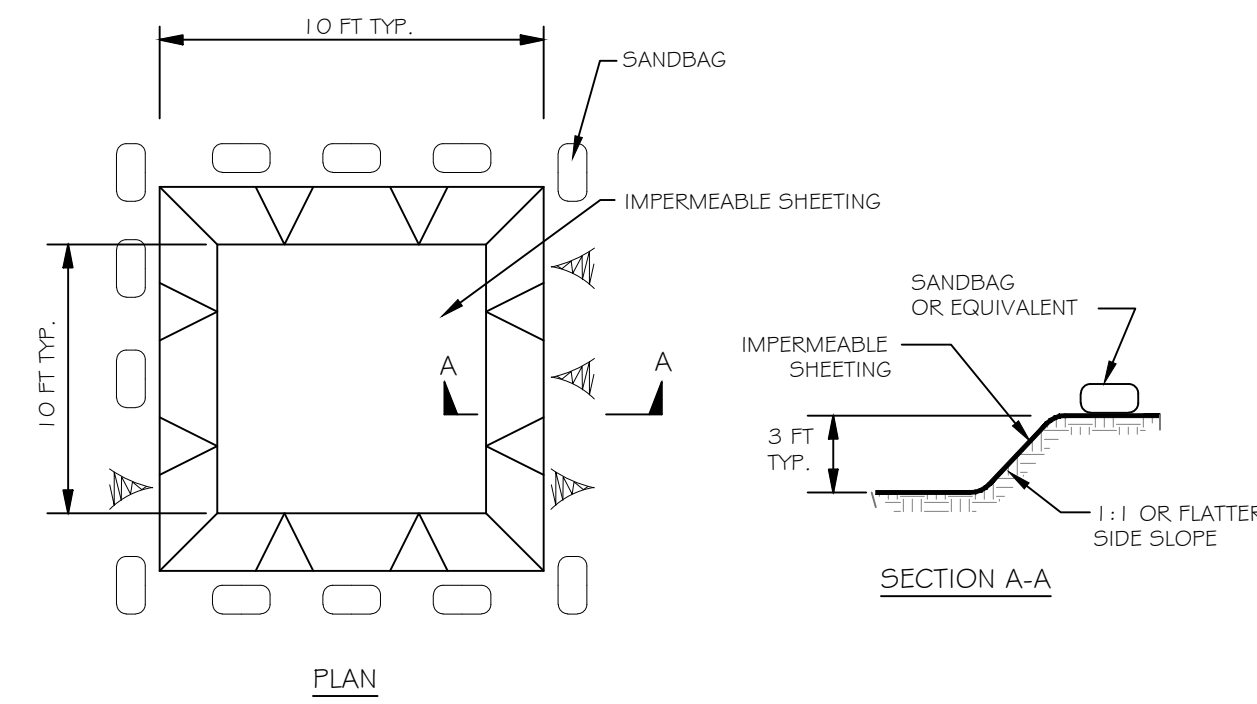
NOTES:

1. USE WOOD POSTS 1 3/4 X 1 3/4 ± 1/8 INCH (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD. AS AN ALTERNATIVE TO WOODEN POST USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT.
2. USE 3/8 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART.
3. USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION.
4. EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.
5. WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, TWIST, AND STAPLE TO POST.
6. EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE.
7. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL FENCE.

SILT FENCE

SCALE
NOT TO SCALE

3



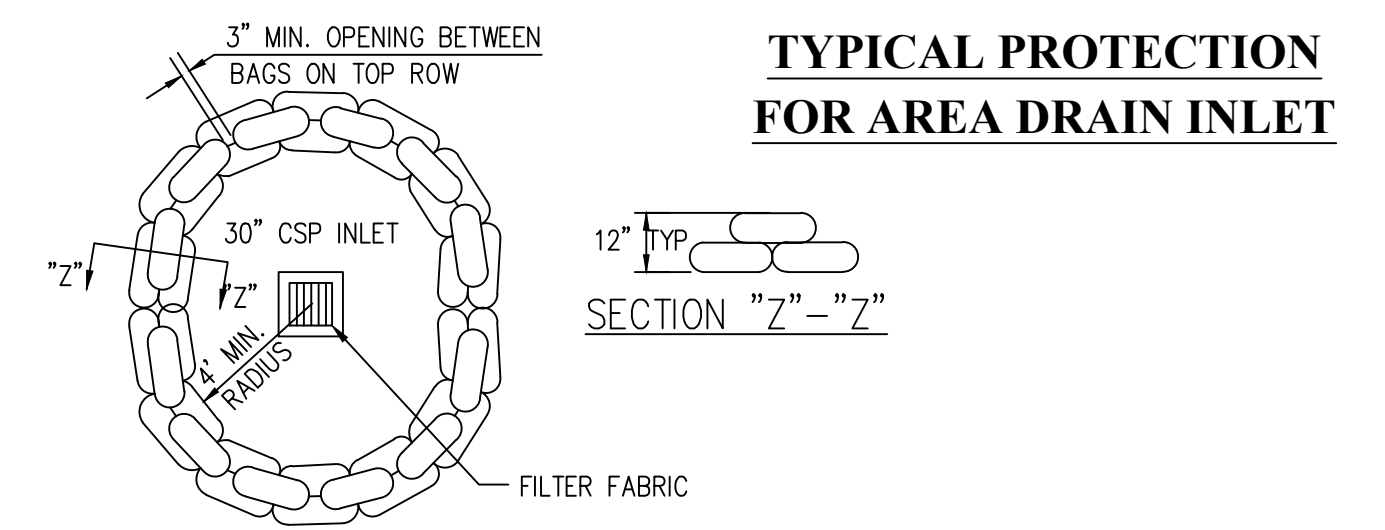
NOTES:

1. LOCATE WASHOUT STRUCTURE A MINIMUM OF 50 FEET AWAY FROM OPEN CHANNELS, STORM DRAIN INLETS, SENSITIVE AREAS, WETLANDS, BUFFERS AND WATER COURSES AND AWAY FROM CONSTRUCTION TRAFFIC.
2. SIZE WASHOUT STRUCTURE FOR VOLUME NECESSARY TO CONTAIN WASH WATER AND SOLIDS AND MAINTAIN AT LEAST 4 INCHES OF FREEBOARD. TYPICAL DIMENSIONS ARE 10 FEET X 10 FEET X 3 FEET DEEP.
3. PREPARE SOIL BASE FREE OF ROCKS OR OTHER DEBRIS THAT MAY CAUSE TEARS OR HOLES IN THE LINER. FOR LINER, USE 10 MIL OR THICKER UV RESISTANT, IMPERMEABLE SHEETING, FREE OF HOLES AND TEARS OR OTHER DEFECTS THAT COMPROMISE IMPERMEABILITY OF THE MATERIAL.
4. PROVIDE A SIGN FOR THE WASHOUT IN CLOSE PROXIMITY TO THE FACILITY.
5. KEEP CONCRETE WASHOUT STRUCTURE WATER TIGHT. REPLACE IMPERMEABLE LINER IF DAMAGED (E.G., RIPPED OR PUNCTURED). EMPTY OR REPLACE WASHOUT STRUCTURE THAT IS 75 PERCENT FULL, AND DISPOSE OF ACCUMULATED MATERIAL PROPERLY. DO NOT REUSE PLASTIC LINER. WET-VACUUM STORED LIQUIDS THAT HAVE NOT EVAPORATED AND DISPOSE OF IN AN APPROVED MANNER. PRIOR TO FORECASTED RAINSTORMS, REMOVE LIQUIDS OR COVER STRUCTURE TO PREVENT OVERFLOWS. REMOVE HARDENED SOLIDS, WHOLE OR BROKEN UP, FOR DISPOSAL OR RECYCLING. MAINTAIN RUNOFF DIVERSION AROUND EXCAVATED WASHOUT STRUCTURE UNTIL STRUCTURE IS REMOVED.

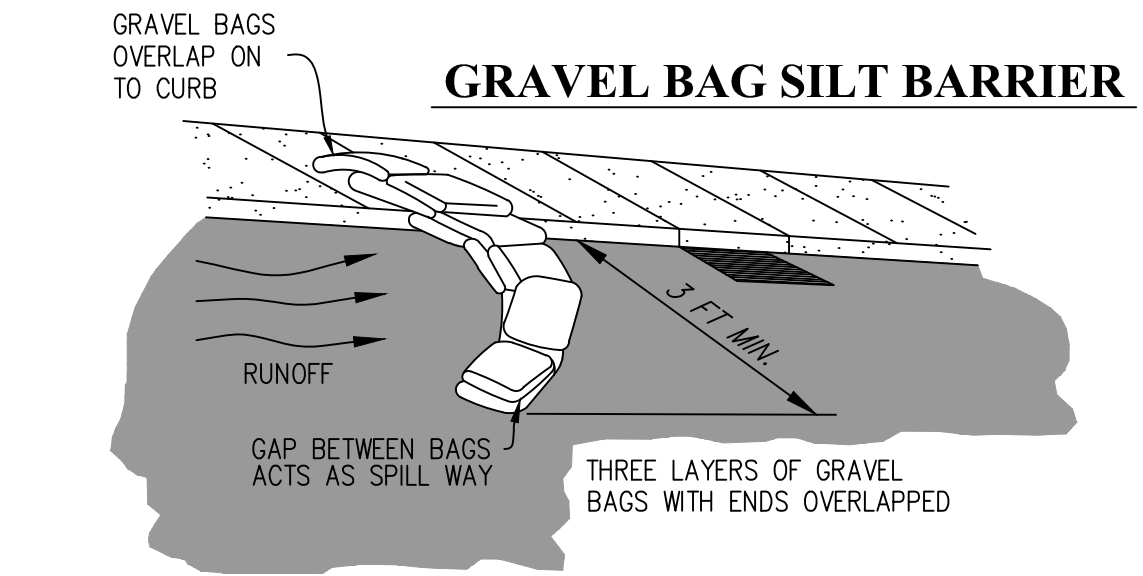
CONCRETE WASHOUT CONTAINER

SCALE
NOT TO SCALE

2



TYPICAL PROTECTION FOR AREA DRAIN INLET



GRAVEL BAG SILT BARRIER

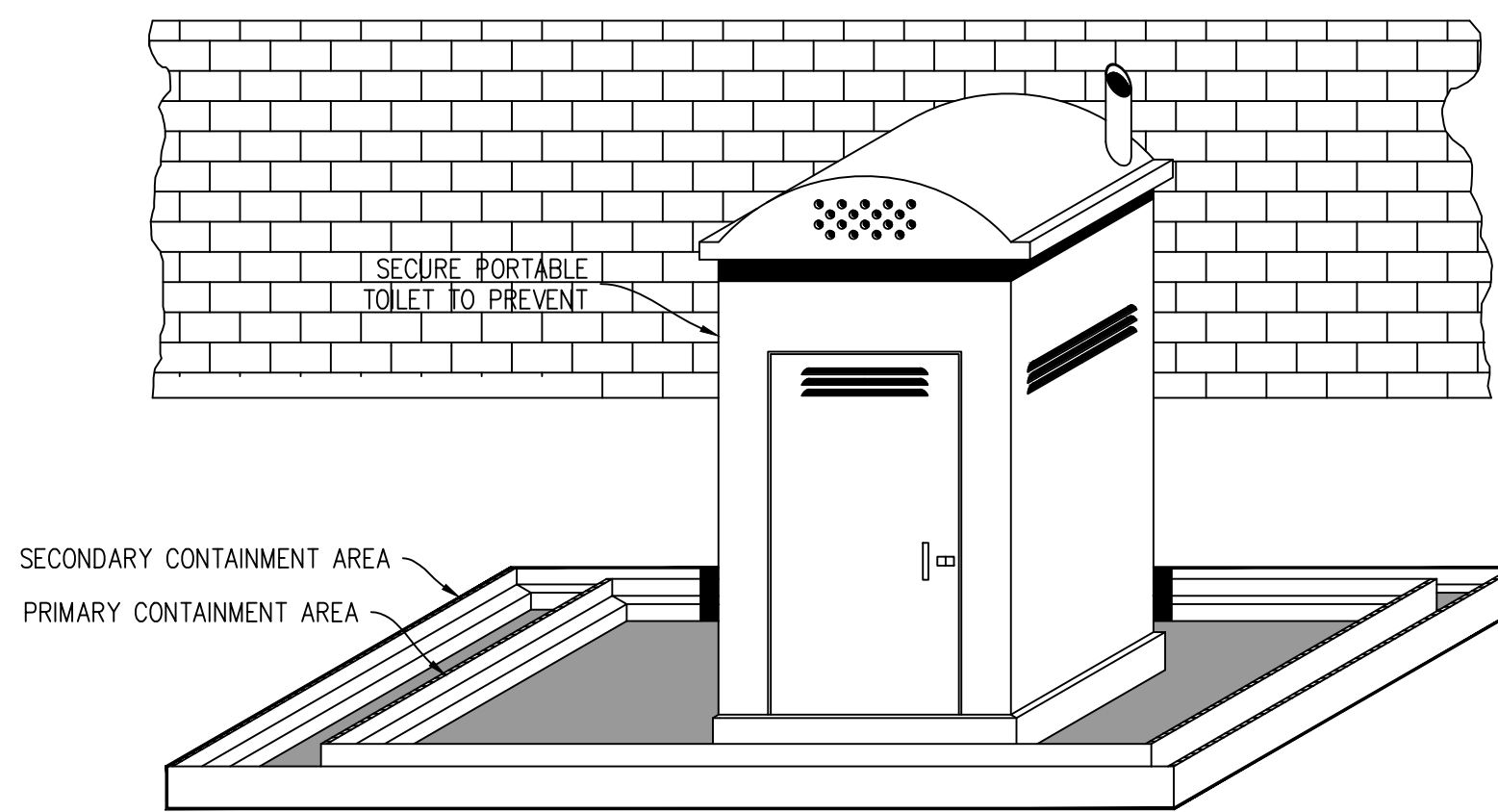
NOTES:

1. BAGS SHALL BE EITHER POLYPROPYLENE, POLYETHYLENE OR POLYAMIDE WOVEN FABRIC, MINIMUM UNIT WEIGHT 135 G/M2 (FOUR OUNCES PER SQUARE YARD), MULLEN BURST STRENGTH EXCEEDING 2,070 KPA (300 PSI) IN CONFORMANCE WITH THE REQUIREMENTS IN ASTM DESIGNATION D3786, AND ULTRAVIOLET STABILITY EXCEEDING 70% IN CONFORMANCE WITH THE REQUIREMENTS IN ASTM DESIGNATION D4355.
2. EACH GRAVEL-FILLED BAG SHALL HAVE A LENGTH OF 450 MM (18 IN), WIDTH OF 300 MM (12 IN), THICKNESS OF 75 MM (3 IN), AND MASS OF APPROXIMATELY 15 KG (33 LB). BAG DIMENSIONS ARE NOMINAL, AND MAY VARY BASED ON LOCALLY AVAILABLE MATERIALS. ALTERNATIVE BAG SIZES SHALL BE SUBMITTED TO THE RE FOR APPROVAL PRIOR TO DEPLOYMENT.
3. FILL MATERIAL SHALL BE BETWEEN 1.0 MM AND 20 MM (0.4 AND 0.8 INCH) IN DIAMETER, AND SHALL BE CLEAN AND FREE FROM CLAY BALLS, ORGANIC MATTER, AND OTHER DELETERIOUS MATERIALS. THE OPENING OF GRAVEL-FILLED BAGS SHALL BE SECURED SUCH THAT GRAVEL DOES NOT ESCAPE. GRAVEL-FILLED BAGS SHALL BE BETWEEN 1.3 KG AND 22 KG (28 AND 48 LB) IN MASS. FILL MATERIAL IS SUBJECT TO APPROVAL BY THE RE.

STREET GRAVEL BAG & TYPICAL PROTECTION FOR DRAIN INLET

SCALE
NOT TO SCALE

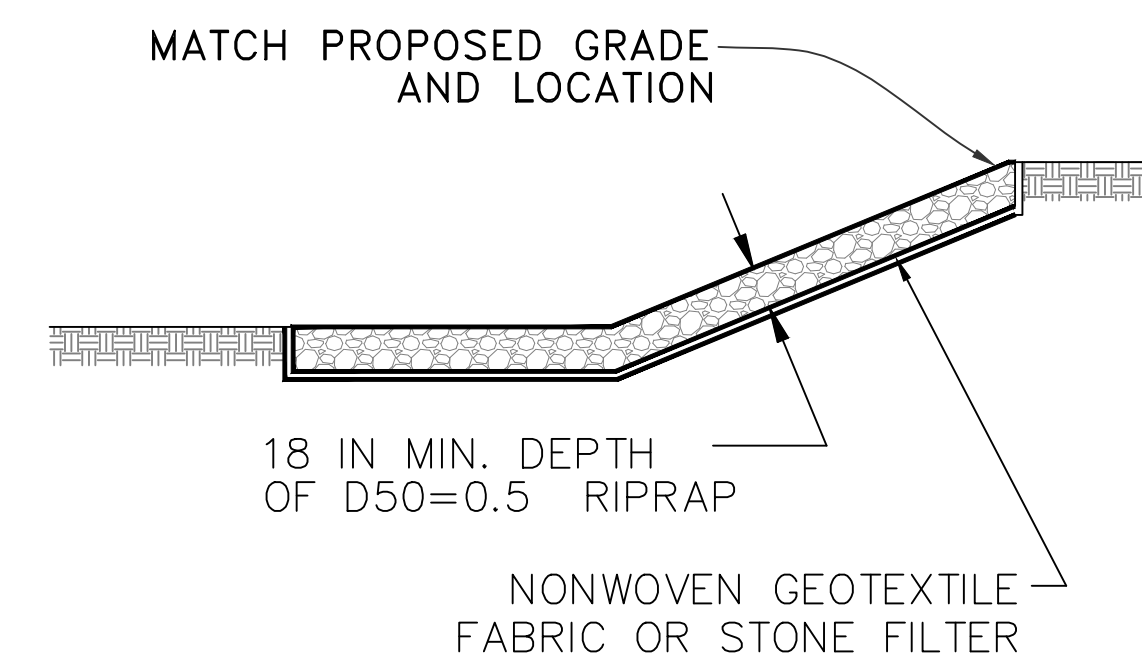
1



PORTABLE TOILET DETAIL

SCALE
NOT TO SCALE

5



RIPRAP VELOCITY DISSIPATION DEVICE

SCALE
NOT TO SCALE

6

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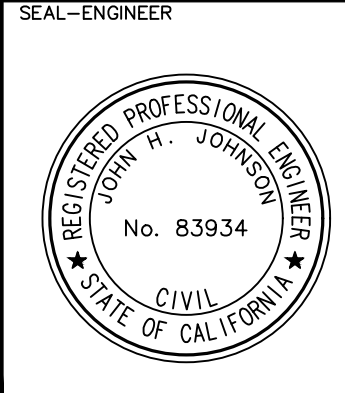
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REVISIONS



CITY CASE NO. BLDC19-00180
CITY OF VICTORVILLE ENGINEERING DEPARTMENT
14343 Civic Drive, Victorville, CA 92392 (760) 955-5000
Approved By: Brian W. Gengler, RCE C44730 City Engineer



KOLIBRIEN CIVIL / STRUCTURAL / SURVEYING
27919 JEFFERSON AVE., STE. 201, TEMECULA, CA 92590
PHONE: (951) 252-1034 WEB: WWW.KOLIBRIEN.BIZ
PREPARED BY: JOHN H. JOHNSON; R.C.E. NO. 83934 DATE: 03/05/2020

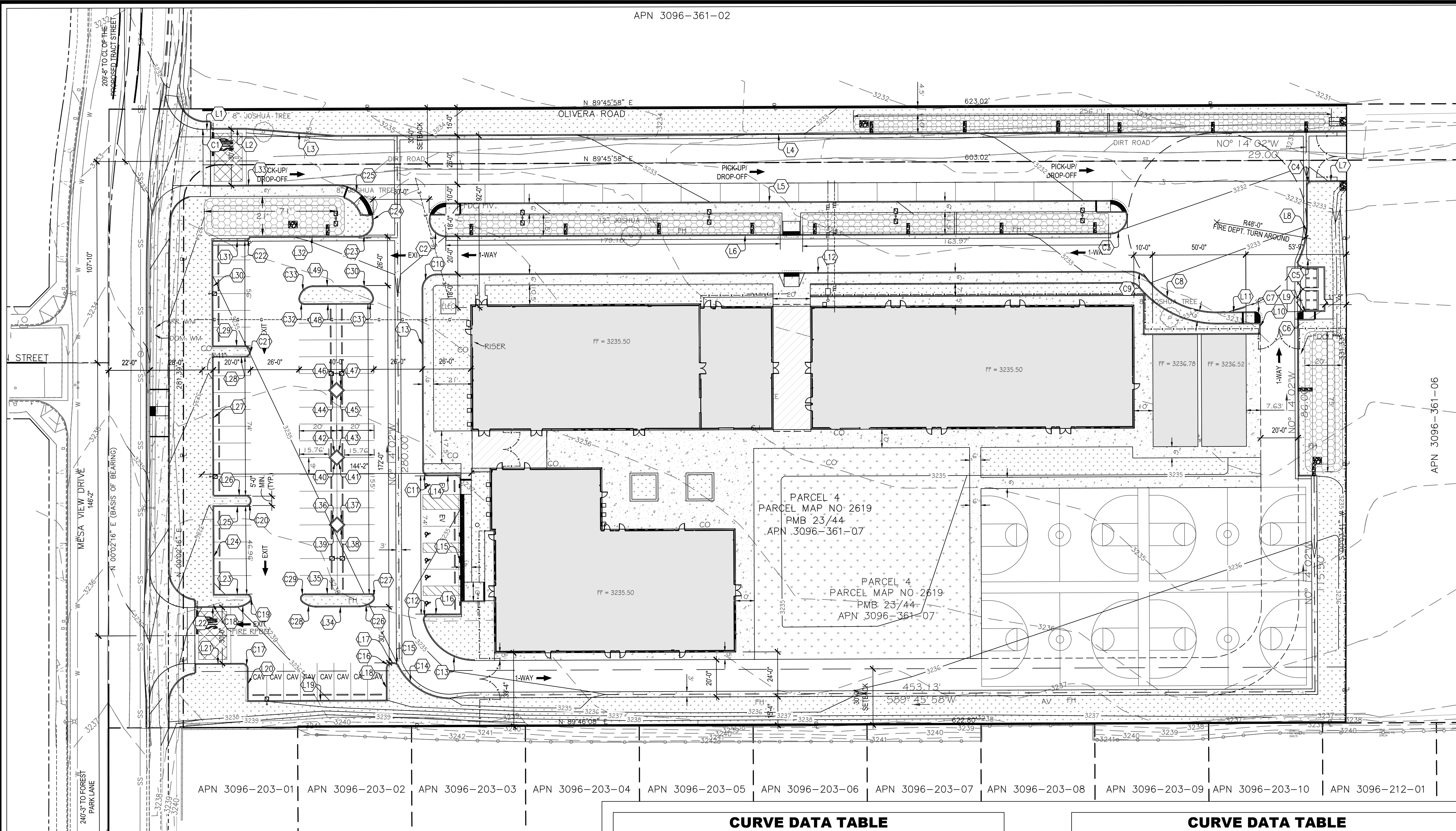
BENCHMARK: CITY OF VICTORVILLE BENCHMARK V-212. LA MESA RD. AND HIGHWAY 395: 146 FT EAST OF EAST EP OF HWY 395 AND 87 FT SOUTHWEST OF FIRE HYDRANT ELEVATION = 3248.52 (NAVD 29).

DRAWN	PM&RD
DESIGNED	JJ
CHECKED	JJ
SCALE	AS NOTED
JOB NUMBER	D03002
DATE	12-02-2019

BLDC19-00180
CITY OF VICTORVILLE
DESERT TRAILS PREPARATORY ACADEMY MIDDLE SCHOOL
ONSITE IMPROVEMENT PLANS
EROSION CONTROL DETAILS
FOR: DESERT TRAILS W.O. CITY JOB NO.

SHEET NO. **12**
OF 16 SHEETS
FILE NO. **E-2**

APN 3096-361-02



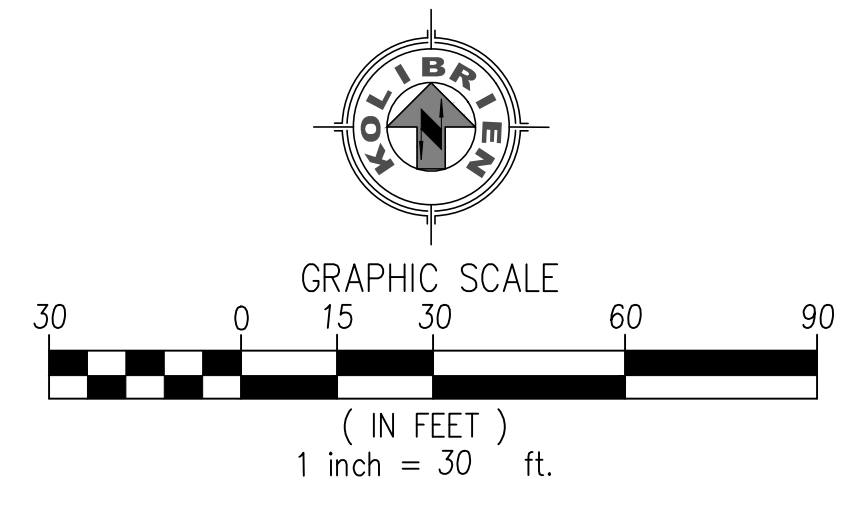
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4	541.60	N89°45'58"E
5	355.97	N89°45'58"E
6	355.97	N89°45'58"E
7	18.50	N89°45'58"E
8	37.50	N00°14'02"W
9	5.00	N89°45'58"E
10	9.00	N00°14'02"W
11	20.00	N89°45'58"E
12	371.53	N89°45'58"E
13	97.00	N00°14'02"W
14	17.00	N89°45'58"E
15	74.00	N00°14'02"W
16	17.00	N89°45'58"E
17	1.00	N89°45'58"E
18	17.00	N00°14'02"W
19	74.00	N89°45'58"E
20	17.00	N00°14'02"W
21	21.67	N89°43'13"E
22	17.87	N89°45'58"E
23	17.00	N89°45'58"E
24	47.00	N00°14'02"W
25	17.00	N89°45'58"E
26	17.00	N89°45'58"E
27	74.00	N00°14'02"W
28	17.00	N89°45'58"E
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32	58.00	N89°45'58"E
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CURVE DATA TABLE

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1	0.35	19.82	1°01'04"	0.18
2	28.27	9.00	180°00'00"	
3	28.27	9.00	180°00'00"	
4	4.71	3.00	90°00'00"	3.00
5	3.14	2.00	90°00'00"	2.00
6	3.14	2.00	89°59'57"	2.00
7	4.71	3.00	90°00'00"	3.00
8	48.00	42.48	50°42'58"	22.74
9	10.62	12.00	50°42'13"	5.69
10	12.57	8.00	90°00'00"	8.00
11	4.71	3.00	90°00'00"	3.00
12	5.44	3.00	103°53'12"	3.83
13	37.20	28.00	76°06'48"	21.92
14	34.15	31.38	62°21'31"	18.99
15	3.50	3.00	66°48'01"	1.98
16	4.71	3.00	90°00'00"	3.00
17	4.72	3.00	90°00'04"	3.00
18	7.93	12.00	37°51'59"	4.12

CURVE DATA TABLE

CURVE ID (X)	LENGTH (LF)	RADIUS	DELTA	TANGENT
19	6.73	2.44	158°03'10"	12.58
20	9.42	3.00	180°00'00"	
21	9.42	3.00	180°00'00"	
22	3.69	3.00	70°31'44"	2.12
23	12.57	8.00	90°00'00"	8.00
24	4.03	20.00	11°32'13"	2.02
25	27.39	20.00	78°27'47"	16.33
26	8.16	12.00	38°56'33"	4.24
27	6.50	2.43	153°28'50"	10.28
28	8.16	12.00	38°56'33"	4.24
29	6.50	2.43	153°28'50"	10.28
30	10.96	8.00	78°27'47"	6.53
31	5.32	3.00	101°32'13"	3.67
32	5.32	3.00	101°32'13"	3.67
33	10.96	8.00	78°27'47"	6.53



Date: 08 May 20 - 8:58 am
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 User: JJOHNSON

DIGALERT
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 A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

MARK	BY	DATE	REVISIONS	APPR.	DATE

CITY CASE NO. **BLDC19-00180**
CITY OF VICTORVILLE
ENGINEERING DEPARTMENT
 14343 Civic Drive, Victorville, CA 92392 (760) 955-5000
 Approved By: Brian W. Gengler, RCE C44730 City Engineer

SEAL-ENGINEER

 JOHN H. JOHNSON, R.C.E. NO. 83934

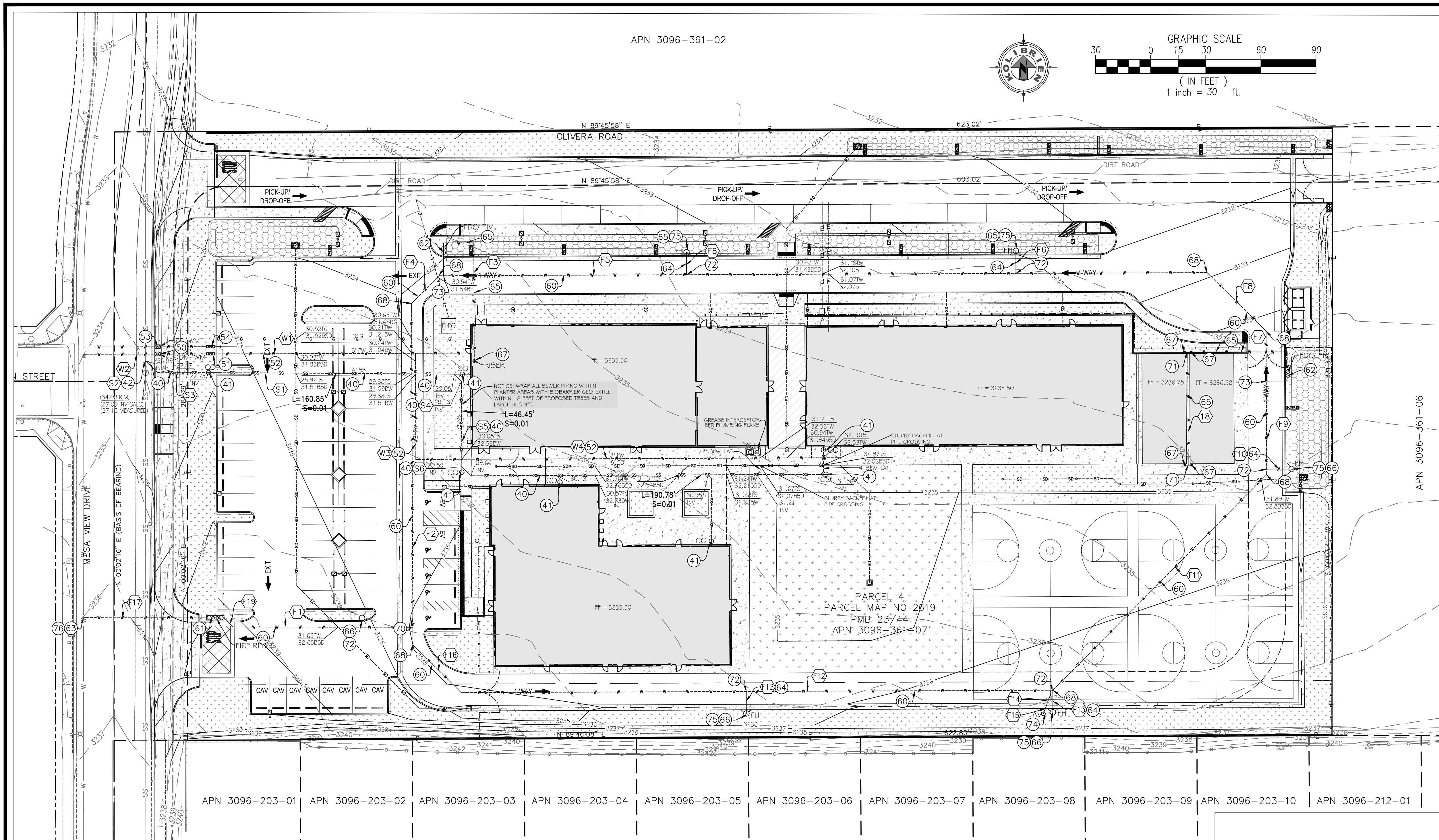
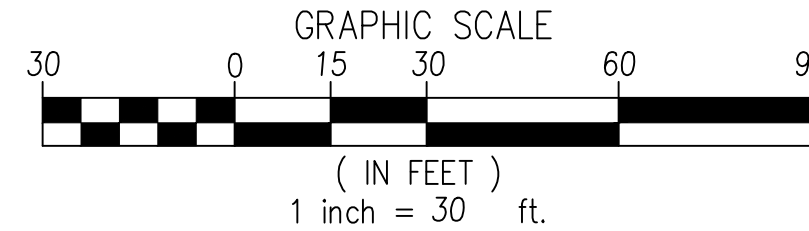
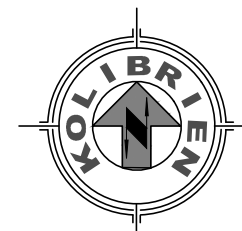
KOLIBRIEN
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 PHONE: (951) 252-1034 WEB: WWW.KOLIBRIEN.BIZ
 PREPARED BY: John H. Johnson 03/05/2020
 JOHN H. JOHNSON, R.C.E. NO. 83934 DATE

BENCHMARK:
 CITY OF VICTORVILLE BENCHMARK V-212,
 LA MESA RD. AND HIGHWAY 395: 146 FT EAST OF END EP OF HWY 395 AND 87 FT SOUTHWEST OF FIRE HYDRANT ELEVATION = 3248.52 (NAVD 29).

BLDC19-00180
CITY OF VICTORVILLE
DESERT TRAILS PREPARATORY ACADEMY MIDDLE SCHOOL
ONSITE IMPROVEMENT PLANS
HORIZONTAL CONTROL PLAN
 FOR: DESERT TRAILS W.O. CITY JOB NO.

SHEET NO. **13**
 OF 16 SHEETS
 FILE NO. **H-1**

APN 3096-361-02



FIRE CONSTRUCTION NOTES & QUANTITIES

- 60 INSTALL 8" DIA. C900 CL200 PVC PIPE PER SAN. BERN. CO. STD. W-2. 1460 L.F.
- 61 INSTALL 8" DOUBLE DETECTOR CHECK ASSEMBLY PER CITY OF VICTORVILLE STD. DWG. NO. W-28. 1 EA
- 62 INSTALL POST INDICATOR VALVE AND FIRE DEPARTMENT CONNECTION PER CITY OF VICTORVILLE STD. F-4. 2 EA
- 63 INSTALL CONCRETE THRUST BLOCK SEE DETAIL 63 ON SHEET C-4 PER SAN. BERN. CO. STD. W-2. 1 EA
- 64 INSTALL 6" DIA. C900 CL200 PVC PIPE PER SAN. BERN. CO. STD. W-2. 100 L.F.
- 65 INSTALL 4" DIA. C900 CL200 PVC PIPE PER SAN. BERN. CO. STD. W-2. 80 L.F.
- 66 INSTALL FIRE HYDRANT PER CITY OF VICTORVILLE STD. DWG. NO. W-11 AND PER SAN. BERN. CO. STD. W-2. 6 EA
- 67 INSTALL FIRE RISER PER DETAIL 67 ON SHEET C-4 PER SAN. BERN. CO. STD. F-1. 3 EA
- 68 INSTALL 8"x45" BEND (RESTRAINED MECHANICAL JOINTS) PER SAN. BERN. CO. STD. W-2. 8 EA
- 69 INSTALL 4"x90" BEND (RESTRAINED MECHANICAL JOINTS) PER SAN. BERN. CO. STD. W-2. 2 EA
- 70 INSTALL 8"x8"x8" TEE (RESTRAINED MECHANICAL JOINTS) PER SAN. BERN. CO. STD. W-2. 1 EA
- 71 INSTALL 4"x4"x4" TEE (RESTRAINED MECHANICAL JOINTS) PER SAN. BERN. CO. STD. W-2. 1 EA
- 72 INSTALL 8"x8"x6" TEE (RESTRAINED MECHANICAL JOINTS) PER SAN. BERN. CO. STD. W-2. 6 EA
- 73 INSTALL 8"x8"x4" TEE (RESTRAINED MECHANICAL JOINTS) PER SAN. BERN. CO. STD. W-2. 2 EA
- 74 INSTALL 1" AIR AND VACUUM RELEASE VALVE ASSEMBLY PER CITY OF VICTORVILLE STD. DWG. NO. W-2. 1 EA
- 75 INSTALL GUARD POST PER DETAIL 75 ON SHEET C-4 PER SAN. BERN. CO. STD. W-2. 6 EA
- 76 INSTALL 8" HOT TAP PER SAN. BERN. CO. STD. W-2 AND CITY OF VICTORVILLE STD. W-21. 1 EA
- 77 INSTALL 8"x4" REDUCER (RESTRAINED MECHANICAL JOINTS) PER SAN. BERN. CO. STD. W-2. 2 EA

SEWER CONSTRUCTION NOTES & QUANTITIES

- 40 INSTALL 6" PVC SDR35 SEWER LINE. 420 L.F.
- 41 INSTALL SEWER CLEANOUT PER CITY OF VICTORVILLE STD. DWG. NO. SS-03A & SS-04. 7 EA
- 42 TIE INTO EXISTING 8" SEWER LINE PER VICTORVILLE STD. DWG. NO. SS-09. 1 EA

WATER CONSTRUCTION NOTES & QUANTITIES

- 50 INSTALL 2" HOT TAP AND DOMESTIC WATER SERVICE WITH 2" DOMESTIC WATER METER PER CITY OF VICTORVILLE STD. DWG. NO. W-3. 1 EA
- 51 INSTALL 2" REDUCED PRESSURE PRINCIPLE DEVICE PER CITY OF VICTORVILLE STD. DWG. NO. W-39. 1 EA
- 52 INSTALL 3" SCH40 PVC WATERLINE. 480 L.F.
- 53 INSTALL 1" HOT TAP AND IRRIGATION WATER SERVICE WITH 1" IRRIGATION WATER METER PER CITY OF VICTORVILLE STD. DWG. NO. W-1. SEE DETAIL 53 ON SHEET C-3. 1 EA
- 54 INSTALL 1" REDUCED PRESSURE PRINCIPLE DEVICE PER CITY OF VICTORVILLE STD. DWG. NO. W-39. 1 EA

FIRE WATER SYSTEM NOTES:

- 1) UNDERGROUND PIPE SHALL BE LAID WITH THE IDENTIFICATION DATA FACING UP TO PERMIT INSPECTION AND VERIFICATION OF PIPE NOMENCLATURE.
- 2) THRUST BLOCKS OR RESTRAINED JOINTS SHALL BE PROVIDED AS PER THE CURRENT EDITION OF NFPA 24.
- 3) WHEN PLASTIC MAINS ARE INSTALLED, THEY SHALL BE MARKED WITH 12 GAUGE TRACER WIRE, TAPED TO THE TOP OF THE PIPE, OR WITH APPROVED TRACER TAPE INSTALLED IN THE TRENCH ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- 4) FIRE HYDRANT SHUT OFF VALVES (STREET VALVES) SHALL BE LOCATED IN THE DRIVE AISLE, DIRECTLY IN FRONT OF THE 4" PORT, 3' TO 10' FROM THE HYDRANT, COVERED WITH A METAL VALVE BOX COVER PAINTED BLUE.
- 5) ALL HYDRANTS ON PRIVATE PROPERTY SHALL BE AN APPROVED HYDRANT WITH BREAKAWAY BOLTS.
- 6) PRIVATE DRY BARREL FIRE HYDRANTS IN AREAS SUBJECT TO FREEZING SHALL MEET THE SAME SPECIFICATIONS AS LOCAL PUBLIC DRY BARREL FIRE HYDRANTS MAINTAINED BY THE LOCAL WATER PURVEYOR. IN NO CASE SHALL A DRY BARREL HYDRANT BE LESS THAN 6" X 4" X 2 1/2" X 2 1/2".
- 7) THE EXTERIOR OF THE HYDRANT HEAD INCLUDING THE RISER, EXCLUDING THE THREADS, SHALL BE PAINTED WITH TWO COATS OF PRIMER AND TWO COATS OF EXTERIOR OIL BASED SAFETY YELLOW PAINT.

NOTICE: CONSTRUCTION FOR ONSITE FIRE WATER SHALL ALL BE INSTALLED AND CONSTRUCTED IN ACCORDANCE WITH SAN BERNARDINO COUNTY FIRE DEPARTMENT STANDARDS AND SPECIFICATIONS.

FITTING QUANTITIES FOR PW AND SEWER LINES HAVE BEEN OMITTED. CONTRACTOR TO VERIFY ALL QUANTITIES.

FIRE WATER SYSTEM STATEMENT

I CERTIFY THAT THE DESIGN OF THE WATER SYSTEM IS IN ACCORDANCE WITH THE REQUIREMENTS OF CITY OF VICTORVILLE FIRE DEPARTMENT.

JOHN H. JOHNSON, P.E. P.L.S. 03/10/2020 DATE:

FIRE LINE TABLE				
LINE #	LENGTH	DIRECTION	SIZE	MATERIAL
F1	97.70	N89°55'37"W	8"	PVC C900 CL200
F2	185.80	N00°14'02"W	8"	PVC C900 CL200
F3	64.30	N00°14'02"W	4"	PVC C900 CL200
F4	21.21	N44°45'58"E	8"	PVC C900 CL200
F5	418.05	N89°45'58"E	8"	PVC C900 CL200
F6	12.64	N00°14'02"W	4"	PVC C900 CL200
F7	54.46	N89°50'27"E	4"	PVC C900 CL200
F8	45.14	N45°14'02"W	8"	PVC C900 CL200
F9	78.23	N00°14'02"W	8"	PVC C900 CL200
F10	13.56	N89°45'58"E	6"	PVC C900 CL200

FIRE LINE TABLE				
LINE #	LENGTH	DIRECTION	SIZE	MATERIAL
F11	165.25	N44°45'58"E	8"	PVC C900 CL200
F12	321.92	N89°45'58"E	8"	PVC C900 CL200
F13	12.00	N00°14'02"W	6"	PVC C900 CL200
F14	2.16	N00°14'02"W	1"	PVC C900 CL200
F15	11.42	N20°35'57"E	1"	PVC C900 CL200
F16	37.05	N45°14'02"W	8"	PVC C900 CL200
F17	66.95	N89°55'37"W	8"	PVC C900 CL200
F18	61.61	N00°14'02"W	6"	PVC C900 CL200
F19	7.13	N44°55'37"W	8"	PVC C900 CL200

SEWER LINE TABLE				
LINE #	LENGTH	DIRECTION	SIZE	MATERIAL
S1	133.09	N89°38'19"W	6"	PVC SDR35
S2	9.18	N45°13'54"W	6"	PVC SDR35
S3	27.75	N89°38'19"W	6"	PVC SDR35
S4	5.50	N44°38'19"W	6"	PVC SDR35
S5	46.45	N00°14'02"W	6"	PVC SDR35
S6	7.07	N45°14'02"W	6"	PVC SDR35
S7	193.01	N89°45'58"W	6"	PVC SDR35

WATER LINE TABLE				
LINE #	LENGTH	DIRECTION	SIZE	MATERIAL
W1	170.34	N89°48'56"E	3"	PVC SCH40
W2	40.07	N89°48'56"E	3"	PVC SCH40
W3	57.81	N00°14'02"E	3"	PVC SCH40
W4	230.69	N89°45'58"E	3"	PVC SCH40

DIG ALERT
DAIL BEFORE YOU DIG
TOLL FREE 811
A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

MARK	BY	DATE	REVISIONS	APPR.	DATE

CITY CASE NO. **BLDC19-00180**
CITY OF VICTORVILLE
ENGINEERING DEPARTMENT
14343 Civic Drive, Victorville, CA 92392 (760) 955-5000
Approved By: Brian W. Gengler, RCE C44730 City Engineer

SEAL-ENGINEER
REGISTERED PROFESSIONAL ENGINEER
JOHN H. JOHNSON
No. 83934
CIVIL
STATE OF CALIFORNIA

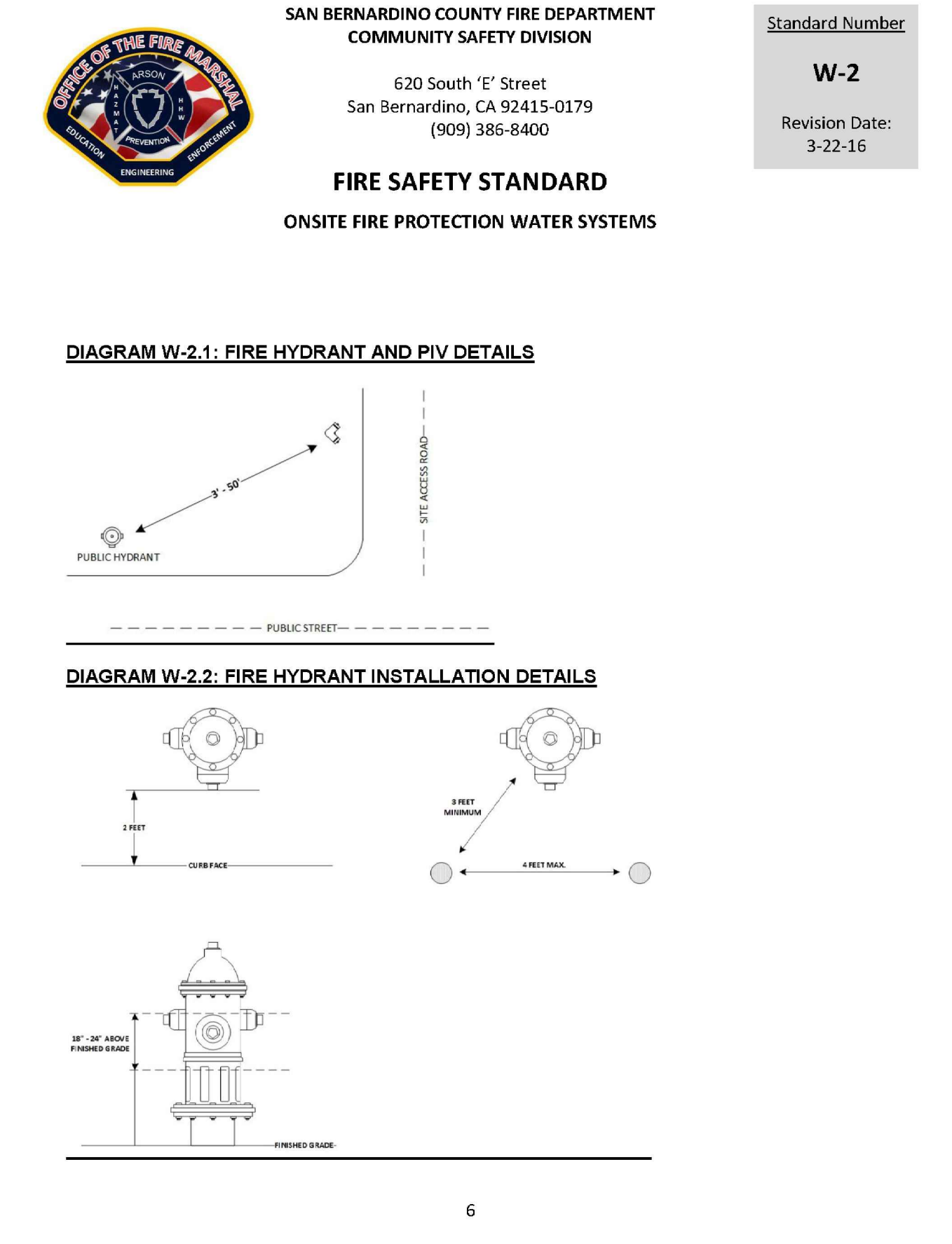
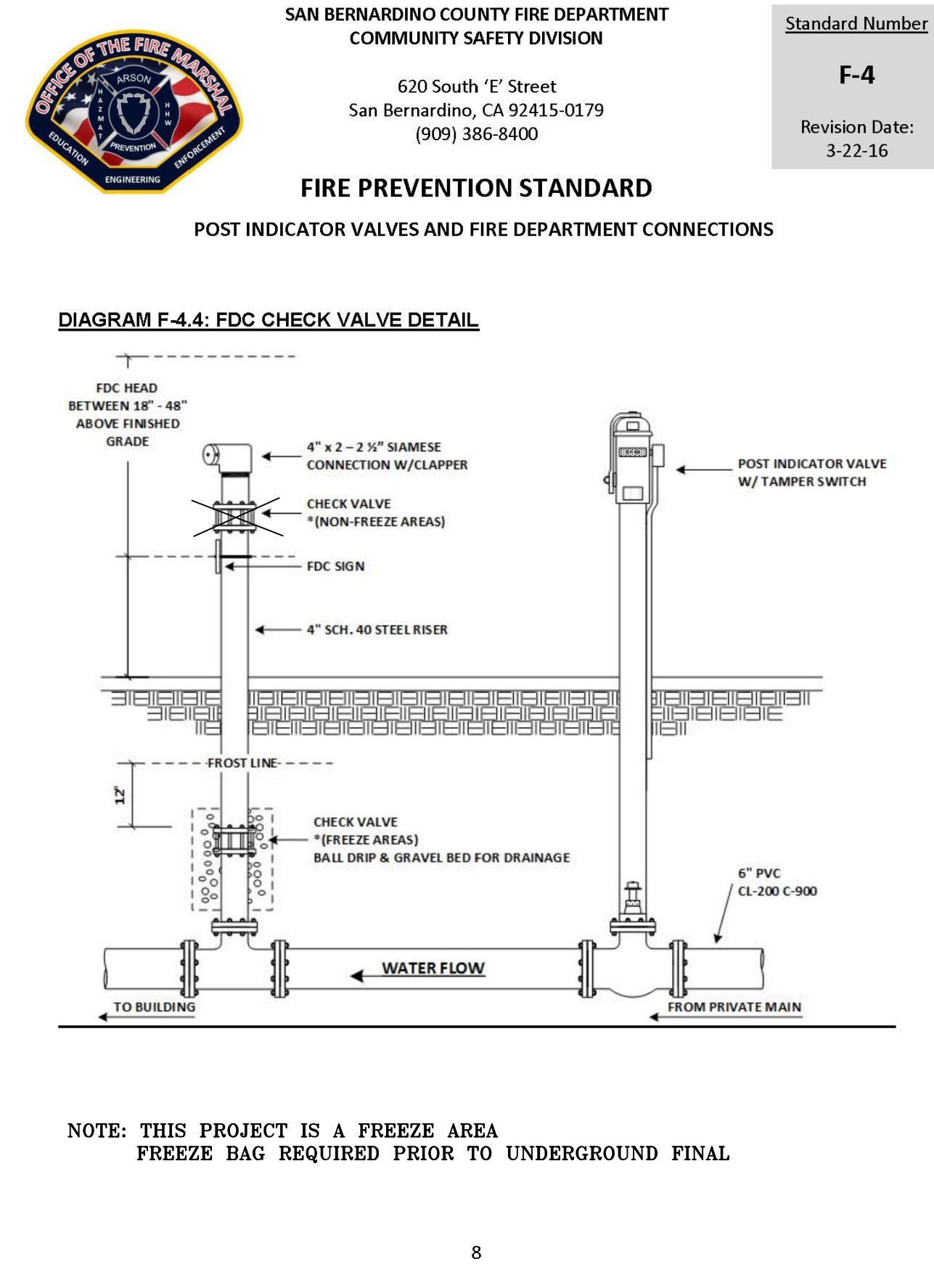
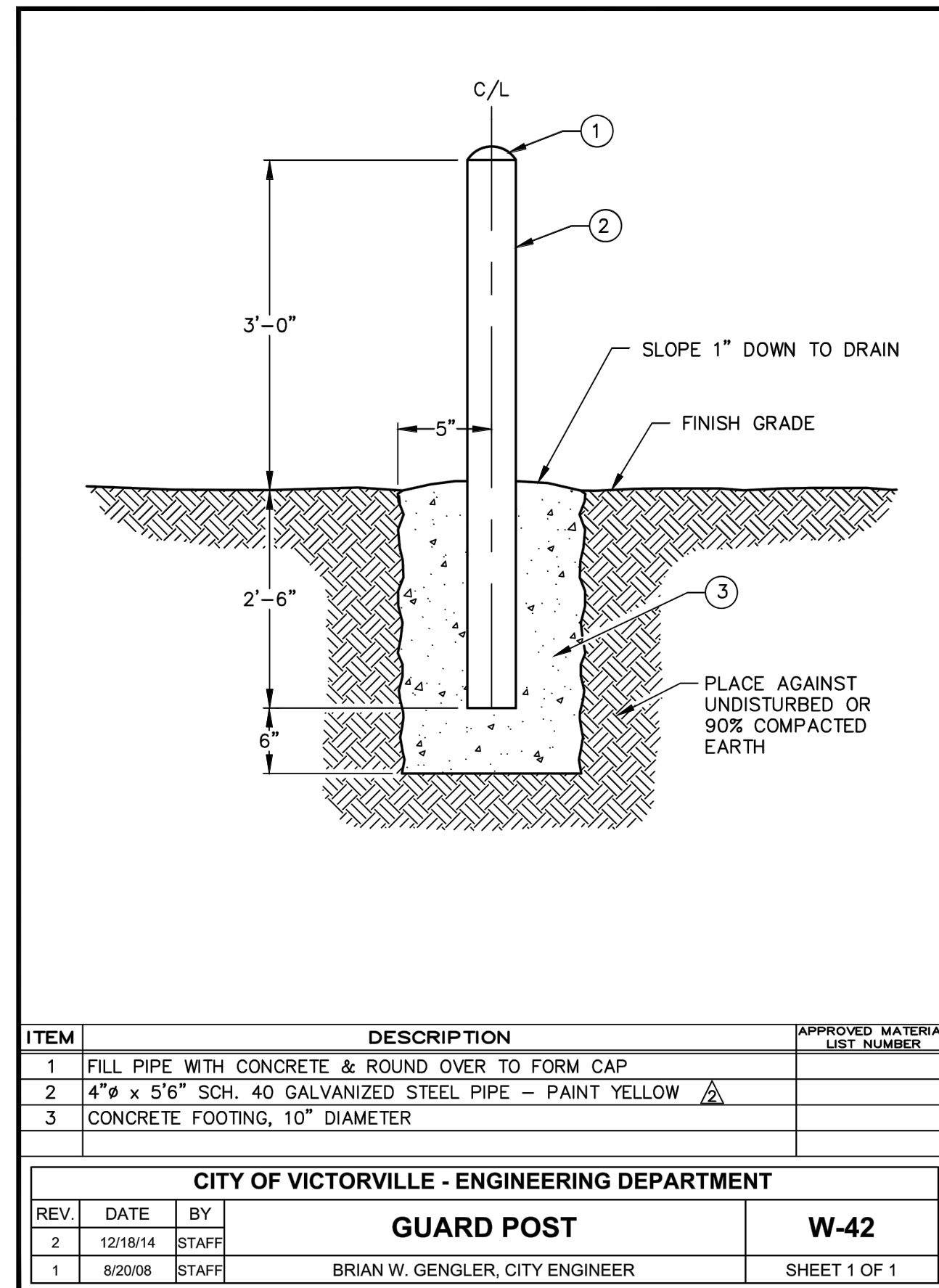
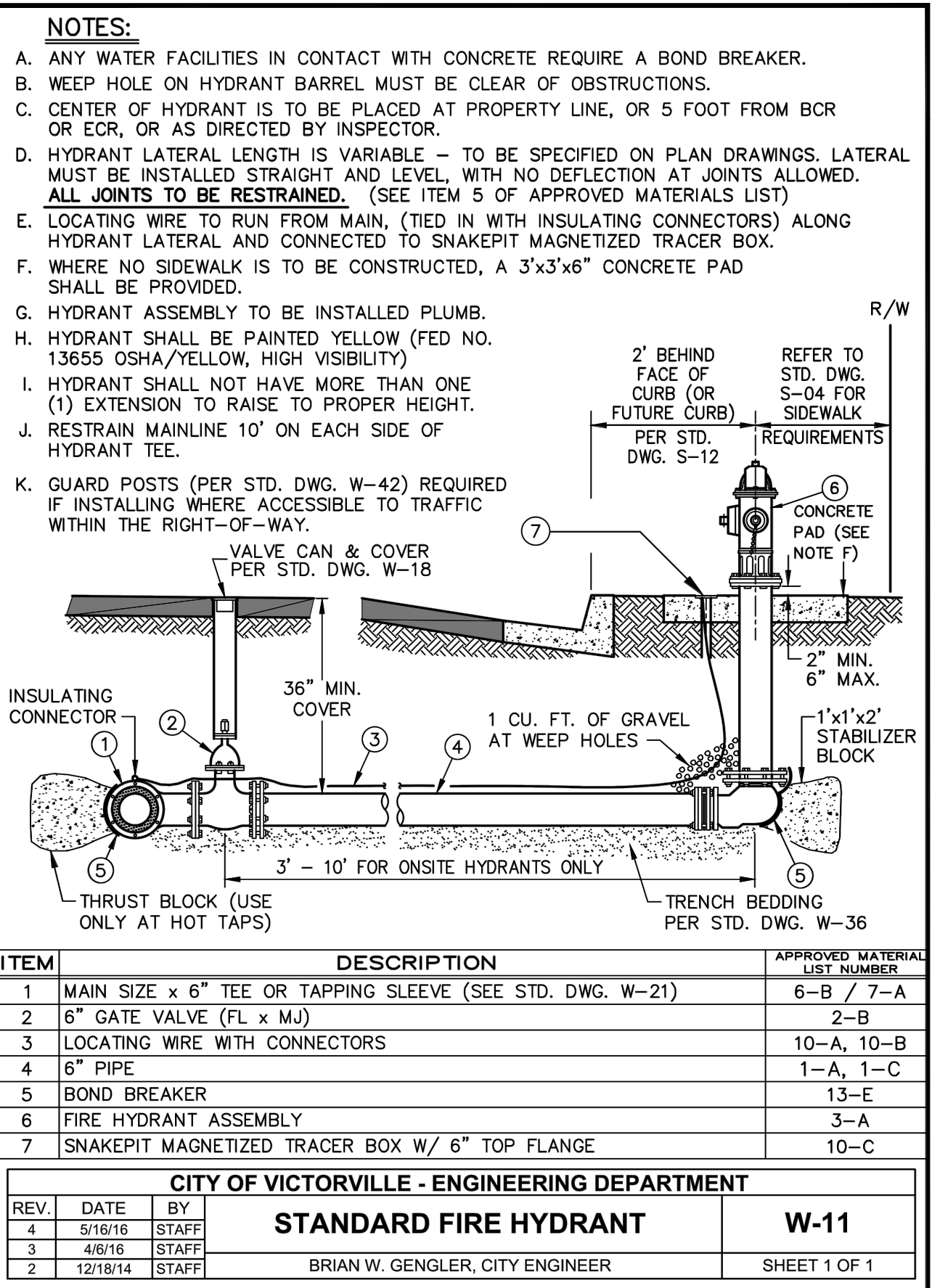
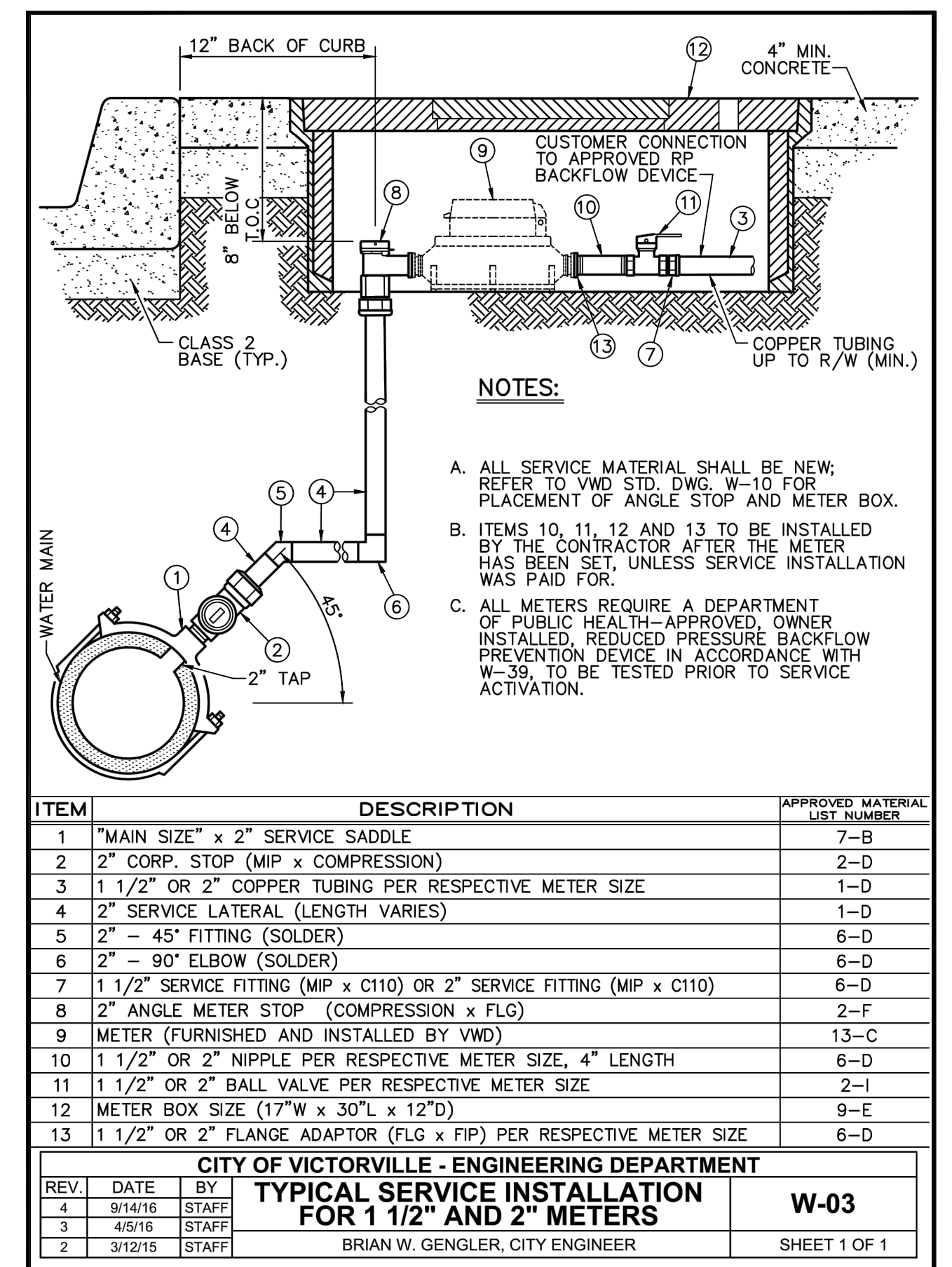
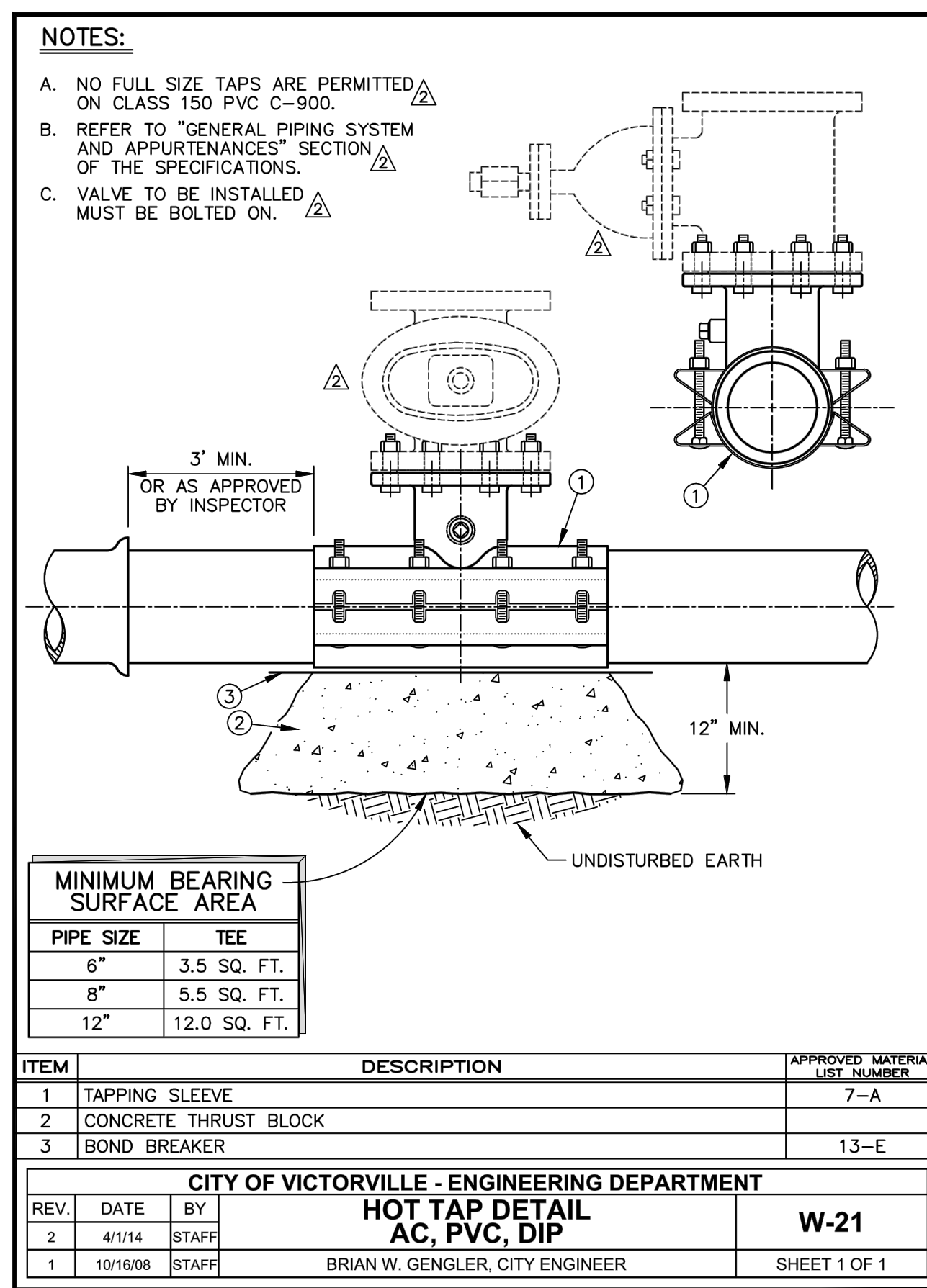
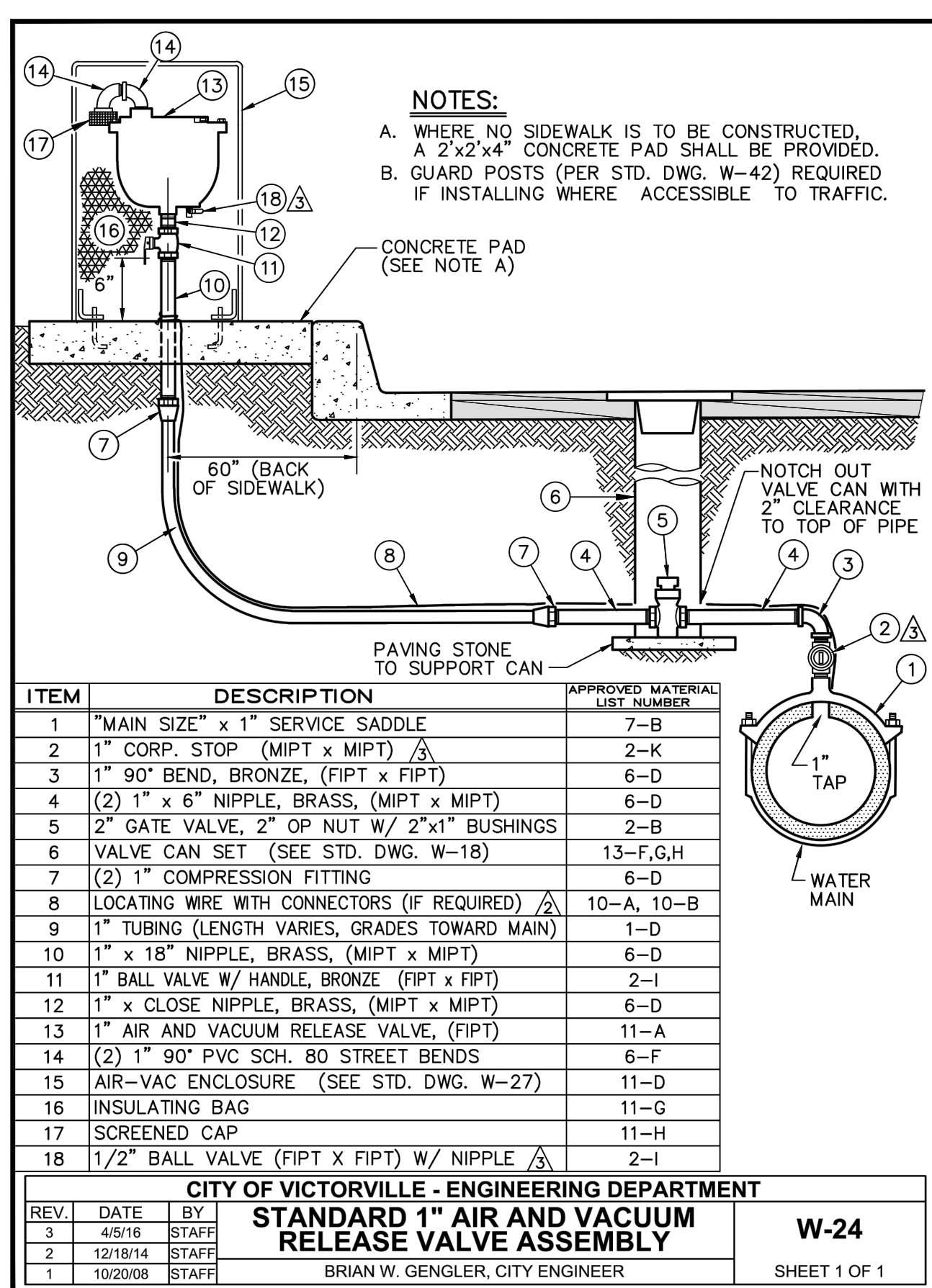
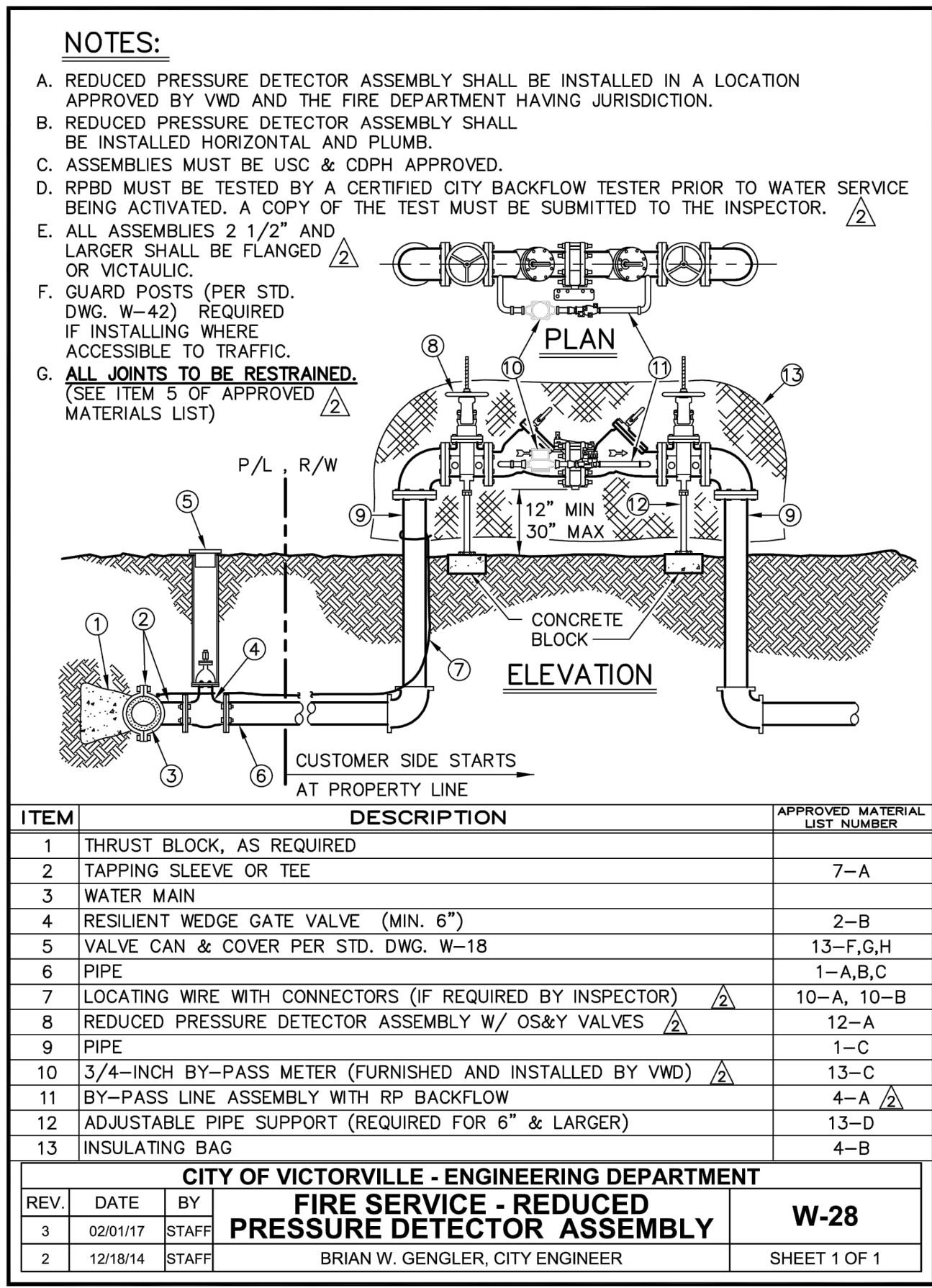
KOLIBRIEN
CIVIL / STRUCTURAL / SURVEYING
27919 JEFFERSON AVE., STE. 201, TEMECULA, CA 92590
PHONE: (951) 252-1034 WEB: WWW.KOLIBRIEN.BIZ
PREPARED BY: JOHN H. JOHNSON, R.C.E. NO. 83934 DATE: 03/05/2020

BENCHMARK:
CITY OF VICTORVILLE BENCHMARK V-212.
LA MESA RD. AND HIGHWAY 395: 146 FT EAST OF EAST EP OF HWY 395 AND 87 FT SOUTHWEST OF FIRE HYDRANT ELEVATION = 3248.52 (NAVD 29).

BLDC19-00180
CITY OF VICTORVILLE
DESERT TRAILS PREPARATORY ACADEMY MIDDLE SCHOOL
ONSITE IMPROVEMENT PLANS
COMPOSITE UTILITY PLAN
FOR: DESERT TRAILS W.O. CITY JOB NO.

SHEET NO. **14**
OF **16** SHEETS
FILE NO. **C-1**

Date: 08 May 20 - 10:00 am File: C:\temp\driven\KOLIBRIEN_Servicing\Desert Trails\CAD\00180\00180_01\ONSITE IMPROVEMENTS CUP.dwg



DIGALERT
 DIAL BEFORE YOU DIG
 TWO WORKING DAYS BEFORE YOU DIG
 TOLL FREE 811
 A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

MARK	BY	DATE	REVISIONS	APPR.	DATE



CITY CASE NO. BLDC19-00180

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

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

DATE: _____



KOLIBRIEN
 CIVIL / STRUCTURAL / SURVEYING
 27919 JEFFERSON AVE., STE. 201, TEMECULA, CA 92590
 PHONE: (951) 252-1034 WEB: WWW.KOLIBRIEN.BIZ

PREPARED BY: _____
 JOHN H. JOHNSON, R.C.E. NO. 83934 DATE: 03/05/2020

BENCHMARK:
 CITY OF VICTORVILLE BENCHMARK
 V-212,
 LA MESA RD. AND HIGHWAY 395; 146 FT EAST OF EP OF HWY 395 AND 87 FT SOUTHWEST OF FIRE HYDRANT ELEVATION = 3248.52 (NAVD 29).

DATE	FOR	W.O.	CITY JOB NO.
12-02-2019	DESERT TRAILS		

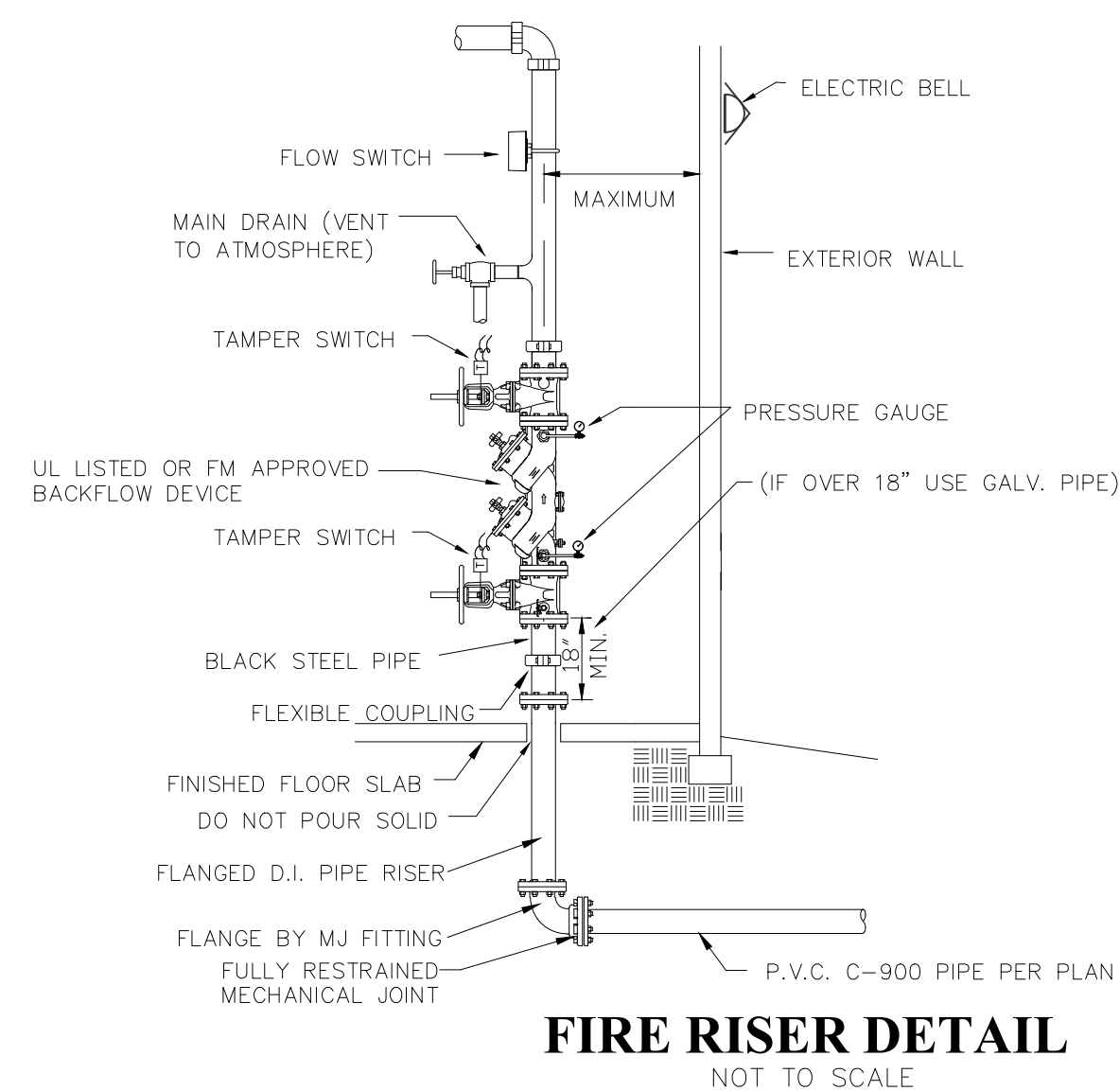
BLDC19-00180

CITY OF VICTORVILLE
DESERT TRAILS PREPARATORY ACADEMY MIDDLE SCHOOL
ONSITE IMPROVEMENT PLANS
COMPOSITE UTILITY DETAILS

DRWN PM&RD
 DESIGNED JJ
 CHECKED JJ
 SCALE AS NOTED
 JOB NUMBER D03002
 DATE 12-02-2019

SHEET NO. **15**
 OF **16** SHEETS
 FILE NO.

C-2



GENERAL NOTES

- BACKFLOW PREVENTER SHALL BE TESTED FOR PROPER OPERATION PER CITY OF VICTORVILLE REQUIREMENTS BY A CERTIFIED TESTER RECOGNIZED BY THE CITY BEFORE A TEMPORARY CERTIFICATE OF OCCUPANCY IS ISSUED.
- ADEQUATE CLEARANCE SHALL BE PROVIDED AROUND FIRE RISER. DIMENSIONS FROM FACE OF PIPE SHALL MEASURE A MINIMUM OF 12" OFF THE BACK WALL, 18" ON EACH SIDE AND 36" CLEAR IN FRONT WITH A FULL HEIGHT DOOR. THE FIRE LINE SHALL EXTEND A MAXIMUM OF 3' INTO THE BUILDING FROM INSIDE FACE OF WALL TO CENTER OF PIPE.
- RISER SHALL BE HYDROSTATICALLY TESTED AT 200 PSI FOR TWO HOURS.
- AT #1 & #4 TEST PORTS INSTALL A 1/2" BRASS NIPPLE, TEE & PLUGS W/ 1/2" x 1/4" MALE FLARED CONNECTION W/ CAP (INSTALL PRESSURE GAUGE ON TEE OUTLET).
- HYDRAULIC DESIGN AND SUMMARY INFORMATION PER NFPA SHALL BE ATTACHED TO RISER.
- SPARE HEAD BOX SHALL BE MOUNTED IN AREA.

* REDUCED-PRESSURE BACKFLOW REQUIRED WHEN F.D. CONNECTION IS WITHIN 1700 FEET OF AN AUXILIARY SUPPLY.

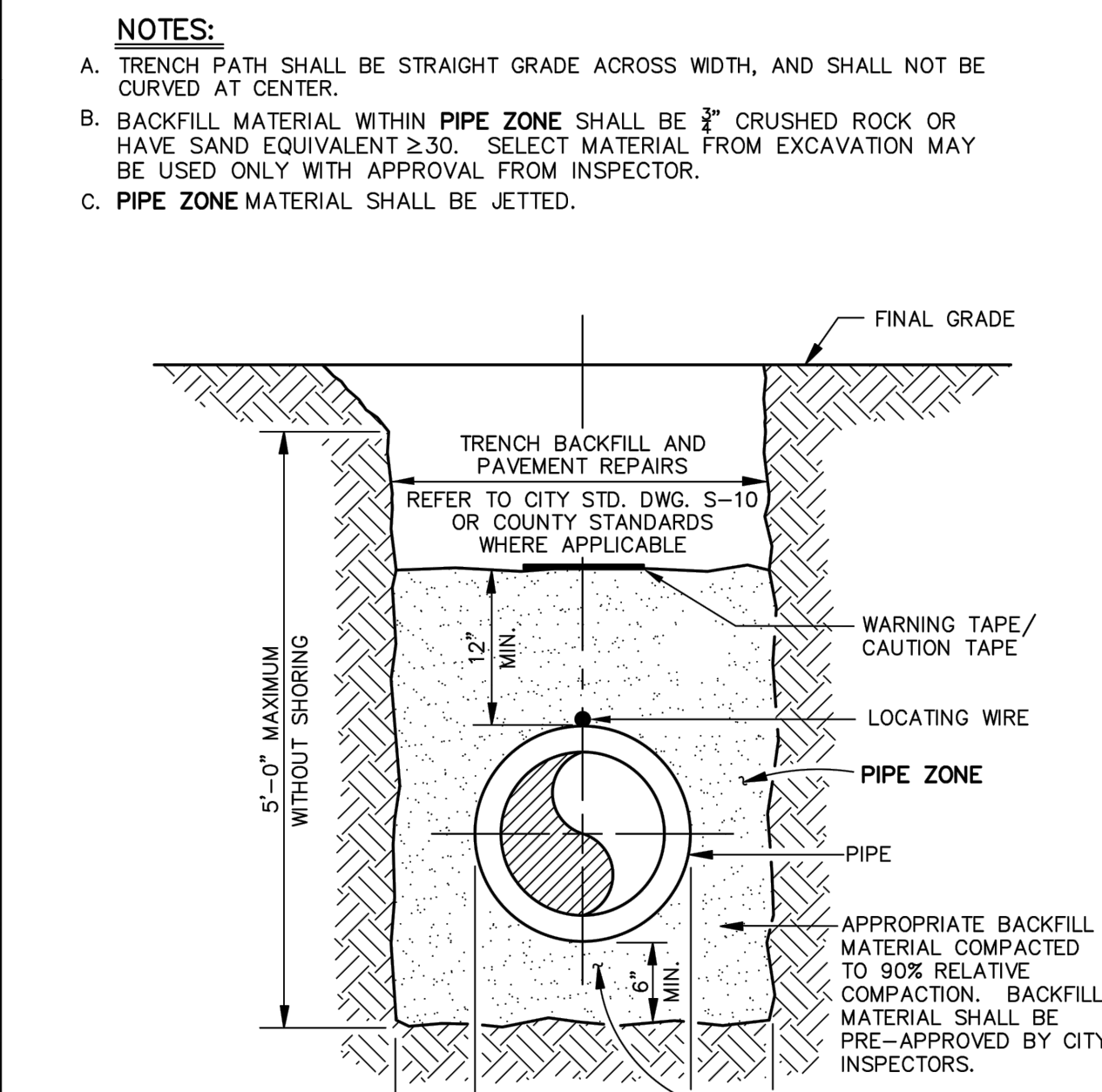
NOTE: ALL PIPING SHALL BE PROTECTED AGAINST FREEZING BY USE OF A METHOD WHICH COMPLIES WITH NFPA 13D OR CRC.

ANTI-FREEZE SYSTEMS, SHALL HAVE A PLACARD PLACED ON THE MAIN SYSTEM VALVE THAT INDICATES THE MANUFACTURER TYPE AND BRAND OF ANTI-FREEZE SOLUTION USED.

FIRE RISER DETAIL
NOT TO SCALE

SYSTEM RISER NOTES PER S.B. CO. STD. F-1.

- ALL SYSTEM RISERS SHALL BE INSTALLED INSIDE OF BUILDINGS TO BE PROTECTED, OR IN AN APPROVED WEATHER-RESISTANT EXTERIOR ENCLOSURE, AND IN A LOCATION ACCEPTABLE TO THE FIRE CODE OFFICIAL.
- RISERS SHALL BE ACCESSIBLE TO FIRE DEPARTMENT PERSONNEL AND SHALL HAVE A MINIMUM OF EIGHTEEN INCHES (18") CLEARANCE FROM OBSTRUCTIONS AND AROUND ALL COMPONENTS AND EQUIPMENT AND SHALL BE ACCESSIBLE FOR OPERATION, INSPECTION, TEST AND MAINTENANCE. RISERS LOCATED IN AN INTERIOR ENCLOSURE SHALL HAVE A DOOR WAY OR OPENING FOR ACCESS A MINIMUM OF THIRTY INCHES (30") IN WIDTH AND EIGHTY INCHES (80") IN HEIGHT FOR ACCESS. (SEE DIAGRAM F-1.1)
- WHEN FIRE SPRINKLER SYSTEMS ARE INSTALLED IN BUILDINGS CONSTRUCTED FOR MULTIPLE TENANTS OR RESIDENTS AND THESE SYSTEMS PROTECT MULTIPLE TENANT SPACES OR DWELLINGS, SYSTEM RISERS SHALL BE CO-LOCATED WITH THE FIRE ALARM CONTROL PANEL INSIDE A MINIMUM 4' X 4' ROOM, AND ACCESSIBLE BY MEANS OF AT LEAST ONE (1) EXTERIOR ACCESS DOOR OF NOT LESS THAN THIRTY SIX INCHES (36") IN WIDTH AND EIGHTY INCHES (80") IN HEIGHT. SIGNAGE FOR THE ROOM SHALL BE IN ACCORDANCE WITH "SIGNAGE" SECTION OF THIS STANDARD. FIRE DEPT KNOX BOX SHALL BE INSTALLED OUTSIDE OF THIS DOOR. (SEE DIAGRAM F-1.2)



NOTES:

- TRENCH PATH SHALL BE STRAIGHT GRADE ACROSS WIDTH, AND SHALL NOT BE CURVED AT CENTER.
- BACKFILL MATERIAL WITHIN PIPE ZONE SHALL BE 3/4" CRUSHED ROCK OR HAVE SAND EQUIVALENT ≥ 30 . SELECT MATERIAL FROM EXCAVATION MAY BE USED ONLY WITH APPROVAL FROM INSPECTOR.
- PIPE ZONE MATERIAL SHALL BE JETTED.

MIN. 12" IS NEEDED IF MECHANICAL COMPACTION IS USED

CITY OF VICTORVILLE - ENGINEERING DEPARTMENT			
REV.	DATE	BY	
3	2/8/17	STAFF	
2	7/28/15	STAFF	
1	10/20/08	STAFF	

TYPICAL TRENCH / PIPE ZONE BACKFILL SCHEMATIC W-36

BRIAN W. GENGLER, CITY ENGINEER SHEET 1 OF 1

NOTES:

- Ⓢ INDICATES PRESSURE UTILITY WATER MAIN FOR POTABLE WATER.
- FOR SEWER LATERAL AND WATER SERVICE LATERAL SEPARATION REQUIREMENTS SEE VICTORVILLE STANDARD SS-03

*UPGRADED MATERIALS CONSISTS OF C-900 AND/OR C-905 CLASS 305 DR 14 PVC, C909 CLASS 305 PVC, CLASS 250/350 ASPHALT COATED DUCTILE IRON PIPE (DIP), OR CEMENT MORTAR LINED & CEMENT COATED STEEL PIPE (MIN. STEEL WALL THICKNESS 0.25"), AS DESCRIBED IN THE MOST CURRENT CITY OF VICTORVILLE APPROVED PRODUCTS LIST.

CROSSING
SANITARY SEWERS AND UTILITY WATER LINES

PARALLEL
SANITARY SEWERS AND UTILITY WATER LINES

(PER CCR, TITLE 22 DIV 4, CH.16 SEC. 64572)

A	SEWER MAINS WILL NOT BE PERMITTED IN THIS ZONE WITHOUT SPECIAL PERMISSION FROM THE STATE DIVISION OF DRINKING WATER, CALIFORNIA AND THE VICTORVILLE WATER DISTRICT.
B	SEWER MAINS IN THIS ZONE MUST BE CONSTRUCTED USING UPGRADED MATERIALS* OR ALTERNATIVE CONSTRUCTION METHODS.
C	SEWER MAINS IN THIS ZONE SHALL BE INSTALLED IN A 1/4" STEEL SAND-FILLED CASING OR UTILIZING UPGRADED MATERIALS* AND AN 18 TO 20 FOOT PIPE CENTERED ABOVE EXISTING 24" MAX. DIA. WATER MAIN.
D	ZONE P IS A PROHIBITED ZONE.
P	NO JOINTS WITHIN 4 FEET OF OUTSIDE OF EXISTING WATERMAIN AND BE CONSTRUCTED OF UPGRADED MATERIALS* OR ALTERNATIVE CONSTRUCTION METHODS.

CITY OF VICTORVILLE - ENGINEERING DEPARTMENT

APPROVED BY: CITY ENGINEER 08/12/19

SEPARATION CRITERIA FOR EXISTING WATER MAINS FROM NEW SANITARY SEWERS OR STORM DRAINS W-34

BRIAN W. GENGLER, CITY ENGINEER SHEET 1 OF 1

NOTES:

- Ⓢ INDICATES SANITARY SEWER MAIN OR STORM DRAIN.

*UPGRADED MATERIALS CONSISTS OF C-900 AND/OR C-905 CLASS 305 DR 14 PVC, C909 CLASS 305 PVC, CLASS 250/350 ASPHALT COATED DUCTILE IRON PIPE (DIP), OR CEMENT MORTAR LINED & CEMENT COATED STEEL PIPE (MIN. STEEL WALL THICKNESS 0.25"), AS DESCRIBED IN THE MOST CURRENT CITY OF VICTORVILLE APPROVED PRODUCTS LIST.

CROSSING
WATER MAIN AND SANITARY SEWER OR STORM DRAIN

PARALLEL
WATER MAIN AND SANITARY SEWER OR STORM DRAIN

(PER CCR, TITLE 22 DIV 4, CH.16 SEC. 64572)

A	WATER MAINS WILL NOT BE PERMITTED IN THIS ZONE WITHOUT SPECIAL PERMISSION FROM THE STATE DIVISION OF DRINKING WATER, CALIFORNIA AND THE VICTORVILLE WATER DISTRICT.
B	WATER MAINS IN THIS ZONE MUST BE CONSTRUCTED USING UPGRADED MATERIALS* OR ALTERNATIVE CONSTRUCTION METHODS.
C	WATER MAINS IN THIS ZONE SHALL HAVE NO JOINTS WITHIN 8 FEET FROM OUTSIDE OF EITHER SIDE OF THE EXISTING SEWER MAIN AND CROSS AT 45° MIN. (PER SEC.64572(d)). THEY SHALL BE INSTALLED IN A 1/4" STEEL SAND-FILLED CASING, OR UTILIZE UPGRADED MATERIALS* AND AN 18 TO 20 FOOT PIPE CENTERED ABOVE EXISTING 24" MAX. DIA. SEWER MAIN.
D	SAME AS ZONE-C (EXCEPT CENTERED BELOW EXISTING SEWER MAIN)
P	ZONE P IS A PROHIBITED ZONE

CITY OF VICTORVILLE - ENGINEERING DEPARTMENT

APPROVED BY: CITY ENGINEER 08/12/19

SEPARATION CRITERIA FOR NEW WATER MAINS FROM EXISTING SANITARY SEWERS OR STORM DRAINS W-35

BRIAN W. GENGLER, CITY ENGINEER SHEET 1 OF 1

CROSS SECTION OF SEWER LINE

CLASS 1 3250 PSI CONCRETE FOR ALL PIPE

4" MINIMUM

6" MINIMUM

UNDISTURBED EARTH

4" OR 6" COLLAR WYE SADDLE

CENTERLINE PIPE TO BE BETWEEN 10" AND 45" FROM THE HORIZONTAL 30" IS PREFERRED

10"

HORIZONTAL LINE

NOTES:

- CALL FOR INSPECTION 2 WORKING DAYS IN ADVANCE OF CUTTING THE PIPE. INSPECTOR MUST BE PRESENT TO OVERSEE THE CUTTING AND SADDLING OPERATION.
- IF PIPE IS CRACKED, BROKEN OR DAMAGED IN ANY WAY IT SHALL BE REPLACED.
- MAKE NORMAL SIZE OPENING FOR SADDLE IN MAIN LINE SEWER PIPE 12" MINIMUM CLEAR OF THE BELL. ON CLAY PIPE SAWCUT ON CENTER OPENING AND USE NIPPERS TO ENLARGE OPENING TO SIZE. ON P.V.C. PIPE USE KEY HOLE SAW.
- REPAIR STREET PER CITY STANDARD DRAWING S-10.
- WIRE SADDLE IN PLACE WITH 12 GAUGE GALVANIZED STEEL WIRE. USE SILICONE CALK TO SEAL SADDLE TO PIPE. SADDLE MUST NOT PROTRUDE INTO THE MAIN LINE.
- PLACE CLASS 1, 3250 PSI, CONCRETE AROUND MAIN LINE AND SADDLE AND 18" ALONG THE MAIN LINE PIPE PER THE CROSS SECTION ABOVE.
- CURE CONCRETE BY COVERING WITH 12" OF WET EARTH. DO NOT BACKFILL UNTIL THE CONCRETE IS CURED SUFFICIENTLY TO WITHSTAND THE BACKFILL OPERATION.
- USE STANDARD MANUFACTURED SADDLES RECOMMENDED BY THE MAIN LINE PIPE MANUFACTURER BEING SADDLED. ALL SADDLES SHALL HAVE ELASTOMERIC SEALS AND SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
- SADDLES SHALL BE Banded TO THE MAIN LINE SEWER WITH A MINIMUM OF 2 EACH 1/2" WIDE STAINLESS STEEL BAND CLAMPS.
- REPLACE PIPE BEDDING PER CITY STANDARD DRAWING SS-05 AND BACKFILL.

CITY OF VICTORVILLE - ENGINEERING DEPARTMENT

1/23/87 PATTERSON

3/24/93 D.G.H.

2/8/07 STAFF

SANITARY SEWER SADDLE SS-09

JOHN A. MCGLADE, CITY ENGINEER SHEET 1 OF 1

PLAN
NOT TO SCALE

SECTION
NOT TO SCALE

NOTES:

- USE FACTORY MADE WYES, FITTINGS AND SEWER LATERAL PIPE OF THE SAME MATERIAL AS THE MAIN LINE SEWER FOR NEW INSTALLATIONS OR USE COMPATIBLE WYES AND FITTINGS TO JOIN LATERALS AND MAIN LINE SEWERS OF DIFFERENT MATERIALS.
- SEWER LATERALS ON EXISTING MAIN LINE SEWER SHALL USE SEWER SADDLES PER CITY STANDARD DRAWING SS-09.
- PIPE BEDDING FOR LATERALS SHALL CONFORM TO STANDARD DRAWING SS-05.
- COVER MAY BE REDUCED TO 3" IF CONCRETE ENCASED OR SPECIAL PIPE APPROVED BY THE ENGINEER IS USED.
- SEWER CLEANOUTS - CLEANOUT PIPE DIAMETER SHALL BE SAME SIZE AS SEWER LATERAL.

CITY OF VICTORVILLE - ENGINEERING DEPARTMENT

11/14/17 W.D.

SEWER LATERALS SS-09A

BRIAN W. GENGLER, CITY ENGINEER SHEET 1 OF 3

CASE 3
CLEAN-OUT WITHIN PRIVATE PROPERTY IN PLANTER

CASE 4
CLEAN-OUT WITHIN PRIVATE PROPERTY IN DRIVEWAY APPROACH

CITY OF VICTORVILLE - ENGINEERING DEPARTMENT

11/14/17 W.D.

SEWER LATERAL - CLEANOUTS SS-09A

BRIAN W. GENGLER, CITY ENGINEER SHEET 3 OF 3

SECTIONAL DETAIL
NOT TO SCALE

NOTES:

- NO CLEAN-OUT SHALL BE PLACED IN FRONT OF DRIVEWAYS EXCEPT ON CUL-DE-SACS.
- CONCRETE SHALL CONTAIN NOT LESS THAN 550 POUNDS OF CEMENTITIOUS MATERIAL PER CUBIC YARD WITH 4% AIR ENTRAINMENT.
- FINISH GRADE STAKE SHALL BE SET AT EACH CLEAN-OUT TO CONFIRM MAXIMUM DEPTH OF 1/8 BEND IS NOT EXCEEDED.

CITY OF VICTORVILLE - ENGINEERING DEPARTMENT

05/05/09

SEWER CLEAN-OUT SS-04

JOHN A. MCGLADE, CITY ENGINEER SHEET 1 OF 1

DIGALERT

CALL BEFORE YOU DIG

111

A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

MARK	BY	DATE	REVISIONS	APPR.	DATE

CITY CASE NO. BLDC19-00180

CITY OF VICTORVILLE ENGINEERING DEPARTMENT

14343 Civic Drive, Victorville, CA 92392 (760) 955-5000

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

DATE

SEAL-ENGINEER

REGISTERED PROFESSIONAL ENGINEER

JOHN H. JOHNSON

No. 83934

CIVIL

STATE OF CALIFORNIA

KOLIBRIEN

CIVIL / STRUCTURAL / SURVEYING

27919 JEFFERSON AVE., STE. 201, TEMECULA, CA 92590

PHONE: (951) 252-1034 WEB: WWW.KOLIBRIEN.BIZ

PREPARED BY: JOHN H. JOHNSON, R.C.E. NO. 83934

DATE: 03/05/2020

BENCHMARK:

CITY OF VICTORVILLE BENCHMARK V-212.

LA MESA RD. AND HIGHWAY 395: 146 FT EAST OF EAST EP OF HWY 395 AND 87 FT SOUTHWEST OF FIRE HYDRANT ELEVATION = 3248.52 (NAVD 29).

DRAWN PM&RD

DESIGNED JJ

CHECKED JJ

SCALE AS NOTED

JOB NUMBER D03002

DATE 12-02-2019

FOR: DESERT TRAILS

W.O.

CITY JOB NO.

BLDC19-00180

CITY OF VICTORVILLE

DESERT TRAILS PREPARATORY ACADEMY MIDDLE SCHOOL

ONSITE IMPROVEMENT PLANS

COMPOSITE UTILITY DETAILS

SHEET NO. 16

OF 16 SHEETS

FILE NO.

C-3

Date: 08 May 20 - 10:01 am File: C:\temp\drawn\KOLIBRIEN - SWANSON\Drawset - Trash\CAD\00001 - ONSITE IMPROVEMENTS CUP.dwg