

UTILITY INFORMATION		
COMPANY	CONTACT	TELEPHONE
ARIZONA PUBLIC SERVICE CO. 120 N. MARINA STREET PRESCOTT, ARIZONA 86301	KERRIE LONG	(928) 443-6696
CENTURYLINK 1445 MASONRY WAY PRESCOTT, AZ 86301	ARMEN MCNERLIN DELL HOWARD	(928) 776-2510
UNISOURCE ENERGY SERVICES 6405 WILKINSON DRIVE PRESCOTT, ARIZONA 86301	MALI ROSS	(928) 771-7227
SPARKLIGHT 3201 TOWER ROAD PRESCOTT, ARIZONA 86305	DOUG HAMILTON	(928) 443-3305
TOWN OF CHINO VALLEY PUBLIC WORKS 1020 W. PALOMINO ROAD CHINO VALLEY, ARIZONA 86323	FRANK MARBURY PUBLIC WORKS DIRECTOR	(928) 636-7140
CALL TWO WORKING DAYS BEFORE YOU GO DIAL 611		

BENCHMARK
TOWN OF CHINO VALLEY CONTROL POINT #101,
3" ALUMINUM CAP STAMPED "RLS 26405, 2007"
IN CHINO VALLEY, AZ, SECTION 29, TOWNSHIP 16N,
RANGE 2W, N:363555.598, E:129797.117,
ELEV=4832.12

NOTES

ALL EASEMENTS CALLED OUT IN THESE CONSTRUCTION DRAWINGS SHALL BE DEDICATED BY A RECORDED LEGAL DESCRIPTION UNLESS OTHERWISE NOTED AS "EXISTING" WITH BOOK & PAGE LOCATION OF RECORDING.

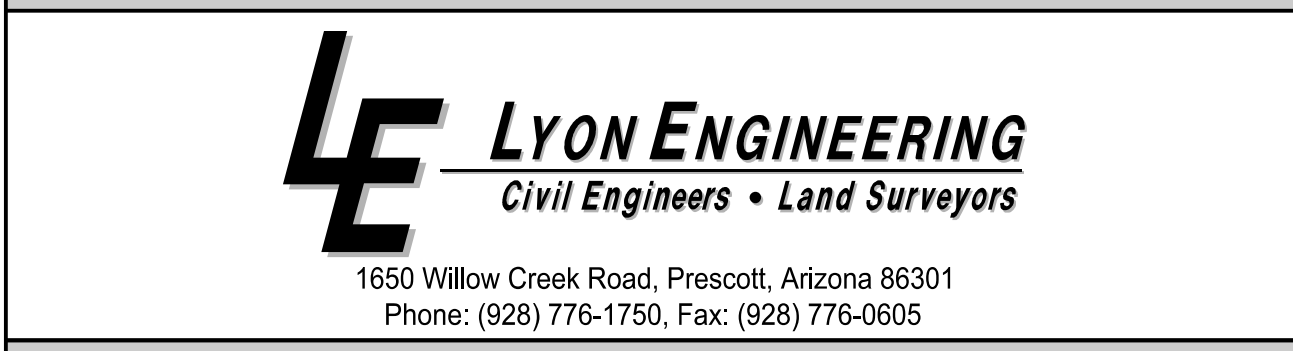
NO PORTION OF THIS PROJECT IS LOCATED WITHIN A FEMA DESIGNATED 100-YEAR FLOODPLAIN PER FEMA FIRM MAP#: 04025C1315G
EFFECTIVE: SEPTEMBER 3, 2010

TOWN OF CHINO VALLEY PERMIT REQUIRED PRIOR TO CONSTRUCTION.

CONTRACTOR IS TO USE EXTREME CAUTION WHEN WORKING NEAR HIGH VOLTAGE OVERHEAD POWER LINES AND UNDERGROUND WATER, SEWER, AND UTILITY LINES.

CONTRACTOR TO LOCATE AND DELINEATE TEMPORARY CONSTRUCTION EASEMENTS
NO ACTIVITY SHALL OCCUR OUTSIDE OF TEMPORARY CONSTRUCTION EASEMENTS.

ACCESS TO CONSTRUCTION SITE SHALL BE ON A LIMITED BASIS. ROW ENCROACHMENT PERMITS WILL BE REQUIRED PRIOR TO CONSTRUCTION.



OWNER

CLIENT
PROJECT CONTACT: JOHN SCHOLL
650 E. CENTER STREET
CHINO VALLEY, AZ 86323
(928) 636-2458

MAYOR
DARRYL L. CROFT

CITY COUNCIL		
JACK MILLER	CLOYCE A. KELLY	ANNIE PERKINS
MIKE BEST	COREY MENDOZA	LON TURNER

SUBMITTED BY	
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SUBMITTED BY

Scott A. Lyon, P.E.	APRIL 2020
NAME	DATE
President	35898
TITLE	ARIZONA REGISTRATION NO.

APPROVED BY _____

CHINO VALLEY TOWN ENGINEER _____ DATE _____



VICINITY MAP
NOT TO SCALE

This map shows the project location within the state of Arizona. The project is indicated by a black arrow pointing to a location in the north-central part of the state, near the border with Nevada. The map displays major highways (Interstates 5, 10, 19, 20, 25, 28, 30, 33, 35, 40, 44, 48, 52, 58, 60, 65, 66, 67, 70, 75, 78, 80, 85, 89, 90, 93, 95, 98, 101, 103, 108, 109, 110, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 88

LOCATION MAP

NOT TO SCALE

NORTH

PROJECT

ROAD 1 WEST

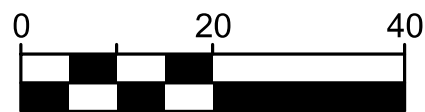
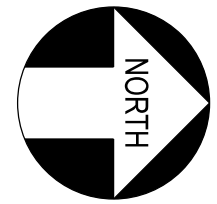
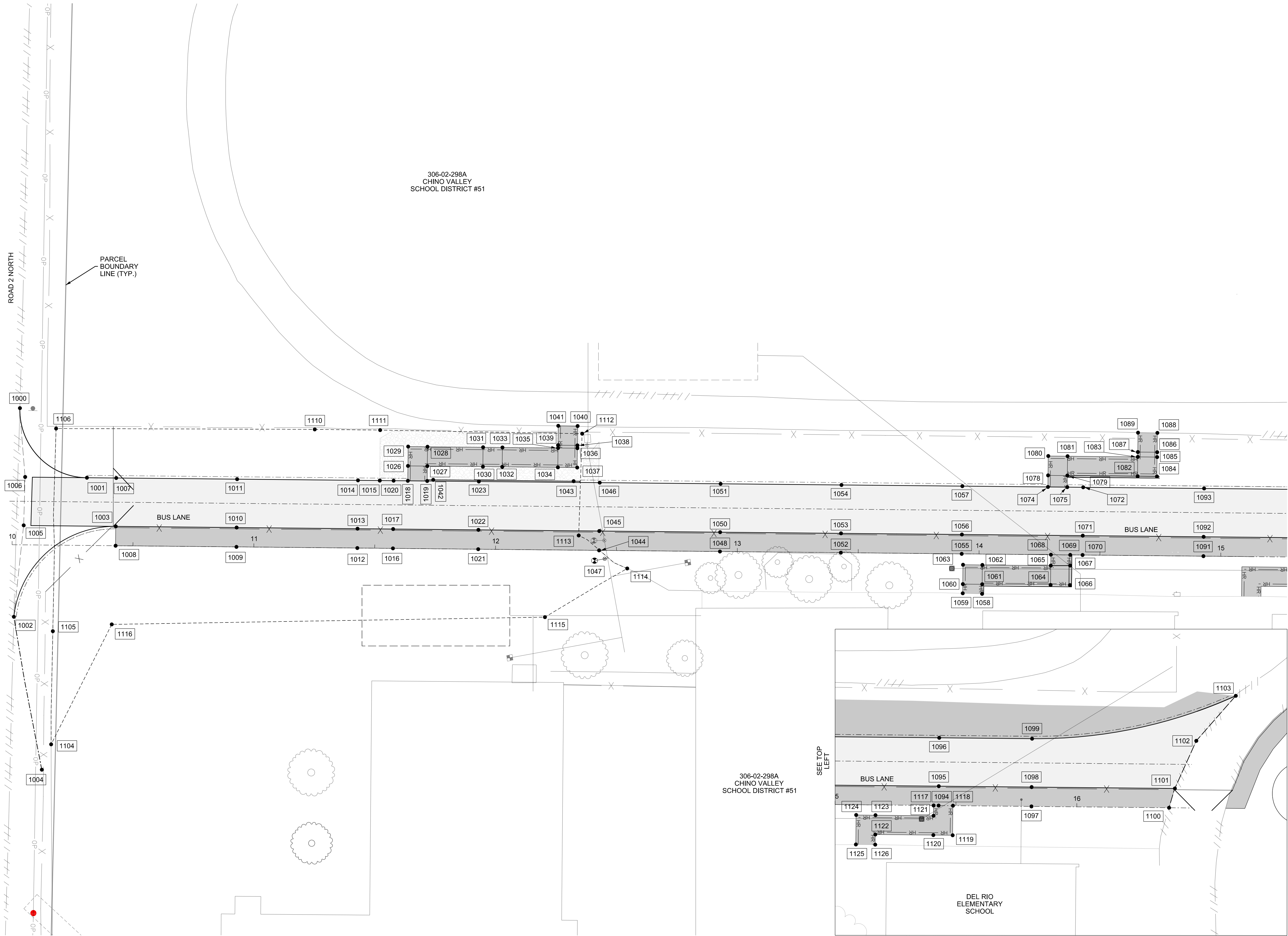
ROAD 2 NORTH

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DRAWING SCALE
1 inch = 20 Feet
(This scale is valid for
22"x34" sheets only)



VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY.

DESIGN	SAL	JWL
DRAWN	JWL	
CHECKED	SAL	
APPROVED	SAL	

BY	APVD
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REVISION

DATE

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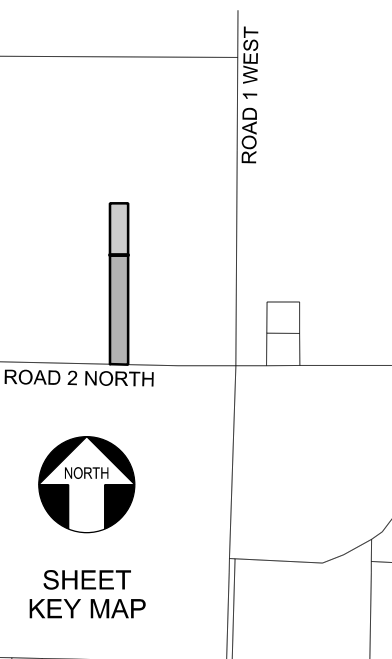
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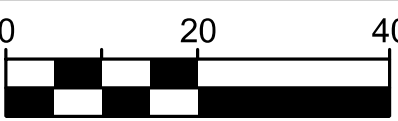
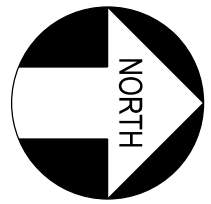
CHINO VALLEY UNIFIED SCHOOL DISTRICT
IMPROVEMENT PROJECT
CIVIL

PROJECT GEOMETRICS 1

DATE
APRIL 2020
LYON PROJECT #
487-34
DRAWING NUMBER
SVY.01
SHEET 5 OF 12



PT#	NORTHING	EASTING	ELEVATION	DESC.	PT#	NORTHING	EASTING	ELEVATION	DESC.	PT#	NORTHING	EASTING	ELEVATION	DESC.	PT#	NORTHING	EASTING	ELEVATION	DESC.
1000	368,850.4079	134,883.7220	4,720.5200	ECR	1039	369,072.9956	134,899.0444	4,717.6400	EDGE-SW	1082	369,312.7259	134,911.8805	4,715.1900	EDGE-SW	1079	369,283.7104	134,907.3218	4,717.6300	EDGE-SW
1001	368,878.1284	134,912.5019	4,720.7000	BCR	1040	369,081.0831	134,891.1328	4,717.6400	EDGE-SW	1083	369,312.8026	134,903.8809	4,715.1900	EDGE-SW	1080	369,278.7586	134,902.2741	4,717.6300	EDGE-SW
1002	368,847.9016	134,970.0006	4,722.4100	ECR	1041	369,073.0836	134,891.0449	4,717.6400	EDGE-SW	1084	369,320.7255	134,911.9572	4,715.1900	EDGE-SW	1081	369,283.7584	134,902.3221	4,717.6300	EDGE-SW
1003	368,890.0501	134,932.6172	4,721.0700	BCR	1042	369,021.3670	134,913.3759	4,722.3700	TCBC	1085	369,320.8023	134,903.9576	4,715.1900	EDGE-SW	1082	369,314.1431	134,907.6138	4,715.1000	EDGE-SW
1004	368,859.4704	135,033.2146	4,722.0000	FL	1043	369,079.4370	134,913.9330	4,721.2900	TCBC	1086	369,320.8214	134,901.9578	4,714.9400	EDGE-SW	1083	369,314.1910	134,902.6140	4,715.1000	EDGE-SW
1005	368,851.9627	134,932.1900	4,721.4400	FL	1044	369,089.9642	134,942.5353	4,721.0600	EDGE-SW	1087	369,312.8218	134,901.8810	4,714.9400	EDGE-SW	1084	369,319.1428	134,907.6617	4,715.1000	EDGE-SW
1006	368,852.5670	134,912.1948	4,720.9100	FL	1045	369,090.0409	134,934.5357	4,720.9400	EOP	1088	369,320.8982	134,893.9582	4,714.9400	EDGE-SW	1085	369,319.1908	134,902.6620	4,715.1000	EDGE-SW
1007	368,890.2420	134,912.6181	4,720.8200	EOP	1046	369,090.2328	134,914.5366	4,720.5400	EOP	1089	369,312.8991	134,893.8281	4,714.9400	EDGE-SW	1086	369,319.2265	134,898.9423	4,714.9400	EDGE-SW
1008	368,889.9734	134,940.6168	4,721.3400	EDGE-SW	1047	369,088.0993	134,946.7822		NEW-FH	1091	369,339.9527	134,944.9334	4,718.1000	EDGE-SW	1087	369,314.2267	134,898.8944	4,714.9400	EDGE-SW
1009	368,939.9711	134,941.0964	4,721.9000	EDGE-SW	1048	369,139.9619	134,943.0149	4,719.8700	EDGE-SW	1092	369,340.0294	134,936.9337	4,717.9800	EOP	1088	369,319.2744	134,893.9426	4,714.9400	EDGE-SW
1010	368,940.0478	134,933.0968	4,721.7800	EOP	1050	369,140.0386	134,935.0153	4,719.7500	EOP	1093	369,340.2213	134,916.9346	4,717.5800	EOP	1089	369,314.2747	134,893.8946	4,714.9400	EDGE-SW
1011	368,940.2397	134,913.0977	4,721.3800	EOP	1051	369,140.2305	134,915.0162	4,719.3500	EOP	1094	369,389.9504	134,945.4130	4,717.6500	EDGE-SW	1090	369,319.7306	134,916.2381	4,718.2200	TCBC
1012	368,989.9688	134,941.5761	4,722.4500	EDGE-SW	1052	369,189.9596	134,943.4945	4,719.1300	EDGE-SW	1095	369,390.0271	134,937.4133	4,717.5300	EOP	1091	369,339.9527	134,944.9334	4,718.1000	EDGE-SW
1013	368,990.0455	134,933.5764	4,722.3300	EOP	1053	369,190.0363	134,935.4949	4,719.0100	EOP	1096	369,390.2190	134,917.4143	4,717.5130	EOP	1092	369,340.0294	134,936.9337	4,717.9800	EOP
1014	368,990.2374	134,913.5773	4,721.9300	EOP	1054	369,190.2282	134,915.4958	4,718.6100	EOP	1097	369,428.3611	134,945.7814	4,717.6400	EDGE-SW	1093	369,340.2213	134,916.9346	4,717.5800	EOP
1015	368,999.2550	134,913.6639	4,721.9700	EOP	1055	369,239.9573	134,943.9741	4,718.7900	EDGE-SW	1098	369,428.4378	134,937.7818	4,717.5200	EOP	1094	369,389.9504	134,945.4130	4,717.6500	EDGE-SW
1016	369,004.6990	134,941.7174	4,722.5000	EDGE-SW	1056	369,240.0340	134,935.9745	4,718.6700	EOP	1099	369,428.6297	134,917.7827	4,717.1200	EOP	1095	369,390.0271	134,937.4133	4,717.5300	EOP
1017	369,004.7758	134,933.7187	4,722.3800	EOP	1057	369,240.2259	134,915.9754	4,718.2700	EOP	1100	369,485.2980	134,946.3276	4,714.5500	EOP	1096	369,390.2190	134,917.4143	4,717.5130	EOP
1018	369,010.8627	134,913.7752	4,721.9800	EOP	1058	369,248.3920	134,960.5082	4,721.1400	EDGE-SW	1101	369,487.6980	134,938.3503	4,714.2600	EOP	1097	369,428.3611	134,945.7814	4,716.6400	EDGE-SW
1019	369,018.8623	134,913.8519	4,721.9400	EOP	1059	369,240.3938	134,960.2809	4,720.9200	EDGE-SW	1102	369,496.5526	134,918.6628	4,713.2600	EOP	1098	369,428.4378	134,937.7818	4,716.5200	EOP
1020	369,004.9676	134,913.7187	4,721.8900	EOP	1060	369,240.4303	134,956.4792	4,720.8000	EDGE-SW	1103	369,512.8868	134,900.0564	4,712.5300	EOP	1099	369,428.6297	134,917.7827	4,716.1200	EOP
1021	369,039.9665	134,942.0557	4,722.2000	EDGE-SW	1061	369,248.4299	134,956.5560	4,720.8000	EDGE-SW	1104	368,863.3188	135022.7353		EDGE-SAW	1100	369,485.2980	134,946.3276	4,714.5500	EOP
1022	369,040.0432	134,934.0560	4,722.0800	EOP	1062	369,248.5066	134,948.5622	4,720.8000	EDGE-SW	1105	368,864.0248	134,975.9478		EDGE-SAW	1101	369,487.6980	134,938.3503	4,714.2600	EOP
1023	369,040.2351	134,914.0570	4,721.6800	EOP	1063	369,240.5070	134,948.4855	4,720.8000	EDGE-SW	1106	368,865.3708	134,892.1581		EDGE-SAW	1102	369,496.5526	134,918.6628	4,713.2600	EOP
1024	369,024.4605	134,908.9054	4,721.9400	EDGE-SW	1064	369,276.7353	134,956.8275	4,718.9000	EDGE-SW	1107	368,872.4339	134,908.9674		EDGE-SAW	1103	369,512.8868	134,900.0564	4,712.5300	EOP
1025	369,019.4607	134,908.8575	4,721.9400	EDGE-SW	1065	369,276.8120	134,948.8279	4,718.9000	EDGE-SW	1108	368,878.6277	134,909.4854		EDGE-SAW	1104	369,863.9522	134,979.6269		EDGE-SAW
1026	369,010.9218	134,907.6180	4,721.6000	EDGE-SW	1066	369,284.7349	134,956.9042	4,718.9000	EDGE-SW	1109	368,904.1723	134,906.9372		EDGE-SAW	1105	369,864.0248	134,975.9478		EDGE-SAW
1027	369,018.9214	134,907.6948	4,721.6000	EDGE-SW	1067	369,284.8124	134,948.8279	4,718.9000	EDGE-SW	1110	368,972.3547	134,892.5186		EDGE-SAW	1106	368,864.9317	134,906.6409		EDGE-SAW
1028	369,018.9981	134,899.6951	4,721.6000	EDGE-SW	1068	369,276.8552	134,944.3281	4,718.5300	EDGE-SW	1111	368,999.4063	134,892.8109		EDGE-SAW	1107	368,872.4339	134,908.9674		EDGE-SAW
1029	369,010.9985	134,899.6184	4,721.6000	EDGE-SW	1069	369,284.8548	134,944.4048	4,718.4800	EDGE-SW	1112	369,082.9759	134,894.2967		EDGE-SAW	1108	368,878.6277	134,909.4854		EDGE-SAW
1030	369,041.9203	134,907.9154	4,719.6900	EDGE-SW	1070	369,289.9550	134,944.4537	4,718.4400	EDGE-SW	1113	369,081.5402	134,936.3709		EDGE-SAW	1109	368,904.1723	134,906.9372		EDGE-SAW
1031	369,041.9971	134,899.9158	4,719.6900	EDGE-SW	1071	369,290.0317	134,936.4541	4,718.3200	EOP	1114	369,101.6130	134,950.0237		EDGE-SAW	1110	368,972.3547	134,892.5186		EDGE-SAW
1032	369,049.9200	134,907.9921	4,719.6900	EDGE-SW	1072	369,290.2236	134,916.4550	4,717.9200	EOP	1115	369,067.5666	134,970.1443		EDGE-SAW	1111	368,999.4063	134,892.8109		EDGE-SAW
1033	369,049.9967	134,899.9925	4,719.6900	EDGE-SW	1074	369,275.6430	134,916.3152	4,718.0200	EOP	1116	368,888.3872	134,973.1412		EDGE-SAW	1112	369,074.2770	134,893.2180		EDGE-SAW
1034	369,072.9189	134,908.2128	4,717.7800	EDGE-SW	1075	369,283.6234	134,916.3919	4,717.9700	EOP	1117	369,387.9015	134,945.3933	4,717.6800	EDGE-SW	1113	369,073.0630	134,918.0860		EDGE-SAW
1035	369,072.9956	134,900.2131	4,717.7800	EDGE-SW	1078	369,275.6889	134,911.5252	4,717.6100	EDGE-SW	1118	369,395.9011	134,945.4700	4,717.5400	EDGE-SW	1114	369,071.0480	134,942.3100		EDGE-SAW
1036	369,080.9953	134,900.2899	4,717.7800	EDGE-SW	1079	369,283.6694	134,911.6018	4,717.6100	EDGE-SW	1119	369,395.7837	134,957.7069	4,717.6800	EDGE-SW	1115	369,069.8039	134,969.6173		EDGE-SAW
1037	369,080.9185	134,908.2895	4,717.7800	EDGE-SW	1080	369,275.7657	134,903.5256	4,717.6100	EDGE-SW	1120	369,387.7841	134,957.6301	4,717.6800	EDGE-SW	1116	368,936.6321	134,960.1753		EDGE-SAW
1038	369,080.9952	134,899.1324	4,717.6400	EDGE-SW	1081	369,283.7461	134,903.6021	4,717.6100	EDGE-SW	1121	369,387.8608	134,949.6301	4,717.6800	EDGE-SW					
										1122	369,363.7852	134,957.3999	4,719.4700	EDGE-SW					
										1123	369,363.8619	134,949.4003	4,719.4700	EDGE-SW					
										1124	369,355.8623	134,949.3236	4,719.4700	EDGE-SW					
										1125	369,355.7454	134,961.5067	4,714.4700	EDGE-SW					
										1126	369,363.7451	134,961.5834	4,719.4700	EDGE-SW					



DRAWING SCALE
1 inch = 20 Feet
(This scale is valid for
22"x34" sheets only)



VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY.

DESIGN
SAL, JWL
DRAWN
JWL
CHECKED
SAL
APPROVED
SAL

BY

DATE

NO.

REVISION

DATE

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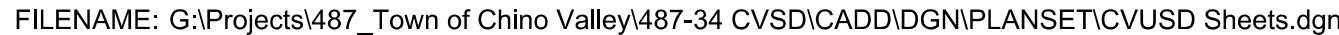
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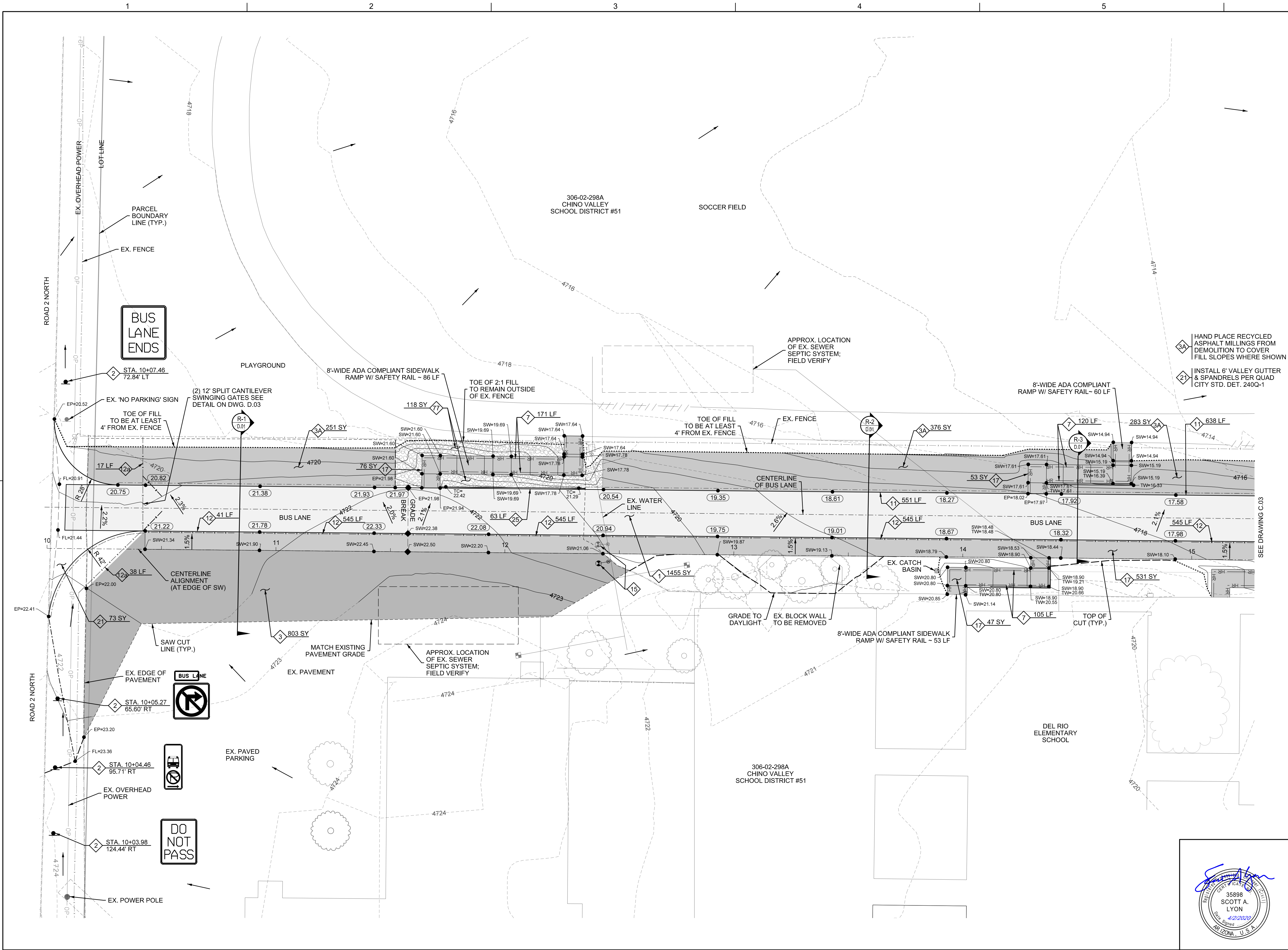
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B

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D</





DRAWING SCALE
1 inch = 20 Feet
(This scale is valid for
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WARNING!
CONTRACTORS TO USE
EXTREME CAUTION WHEN
WORKING NEAR
BURIED AND OVERHEAD
UTILITY LINES

**GRADING & DRAINAGE
KEY NOTES**

1. INSTALL 3" A.C. ON 6" A.B.C. PAVEMENT SECTION AS SHOWN IN SHADED AREA, 20' WIDE, WITH THICKENED EDGE PER QUAD CITY STD. DET. 201Q, SEE DWG. D.01 FOR SPECIAL PAVEMENT SECTIONS

2. INSTALL SIGN POST PER QUAD CITY STD. DET. 131Q

3. INSTALL 3" A.C. ON 6" ABC PAVEMENT SECTION TO REPLACE EX. PAVEMENT SECTION

7. INSTALL SAFETY RAIL PER QUAD CITY STD. DET. 145Q WITH EXTRA RAIL 4" MAX. ABOVE SIDEWALK SURFACE PAINTED PER SECT. 515 & 530 OF 2019 MAG SPECS

12. INSTALL 4-HIGH CHAIN LINKED FENCE WITH 4" BUS OPENINGS AND 42" BETWEEN OPENINGS, 6" FROM EDGE OF PAVEMENT PER MODIFIED MAG STD. DET. 160-1

12.3. INSTALL 6"-HIGH CHAIN LINKED FENCE WITH 4" BUS OPENINGS AND 42" FROM EDGE OF NEW PAVEMENT PER MODIFIED MAG STD DET. 160

15. RELOCATE EXISTING FIRE HYDRANT 8' EAST, OUTSIDE SIDEWALK PER QCSO 360Q

17. INSTALL SIDEWALK PER QUAD CITY STD. DET. 230Q

25. INSTALL SINGLE CURB PER MAG STD. DET. 222

27. INSTALL HAND-PLACED 9" RIP-RAP PER GRADATION TABLE ON DRAWING D.02

**GRADING & DRAINAGE
NOTE LEGEND**

◆ HORIZONTAL OR VERTICAL HINGE POINT

TW=01.00 TOP OF WALL

EG=01.00 EXISTING GRADE

XX.XX PAVEMENT GRADE

FG=01.00 FINISHED GRADE

TC=01.00 TOP OF CURB

EP=01.00 EDGE OF PAVEMENT

FL=01.00 FLOW LINE ELEV.

0.50% FLOW LINE SLOPE

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DESIGN	DRAWN	CHECKED	APPROVED	BY	DATE	NO.

**CHINO VALLEY UNIFIED SCHOOL DISTRICT
IMPROVEMENT PROJECT**

CIVIL

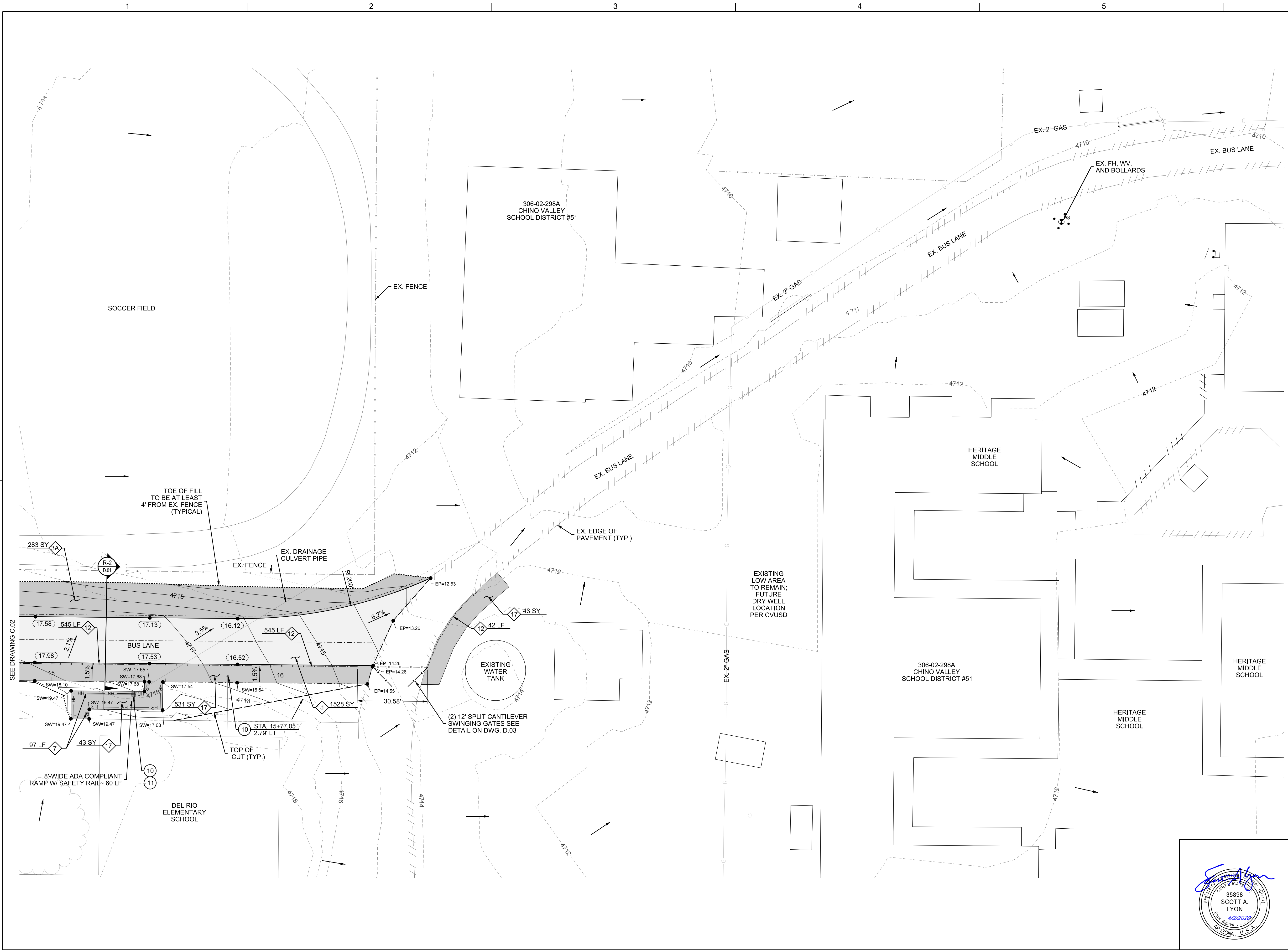
CIVIL PLAN 1

DATE
APRIL 2020

LYON PROJECT #
487-34

DRAWING NUMBER
C.02

SHEET 8 OF 12



0 20 40

DRAWING SCALE
1 inch = 20 Feet
(This scale is valid for 22"x34" sheets only)

WARNING!
CONTRACTORS TO USE
EXTREME CAUTION WHEN
WORKING NEAR
BURIED AND OVERHEAD
UTILITY LINES

**GRADING & DRAINAGE
KEY NOTES**

INSTALL 3" A.C. ON 6" A.B.C.
PAVEMENT SECTION AS
SHOWN IN SHADED AREA,
20' WIDE, WITH THICKENED
EDGE PER QUAD CITY STD.
DET. 201Q, SEE DWG. D.01
FOR SPECIAL PAVEMENT
SECTIONS

HAND PLACE RECYCLED
ASPHALT MILLINGS FROM
DEMOLITION TO COVER
FILL SLOPES WHERE SHOWN

INSTALL SAFETY RAIL PER
QUAD CITY STD. DET. 145Q
WITH EXTRA RAIL 4" MAX.
ABOVE SIDEWALK SURFACE
PAINTED PER SECT. 515 &
530 OF 2019 MAG SPECS

INSTALL 4-HIGH CHAIN
LINKED FENCE WITH
4' BUS OPENINGS AND 40'
BETWEEN OPENINGS, 6"
FROM EDGE OF PAVEMENT
PER MODIFIED MAG STD.
DET. 160Q-1

INSTALL SIDEWALK PER
QUAD CITY STD. DET. 230Q

SEWER KEY NOTES

ADJUST MANHOLE FRAME
PER QUAD CITY STD. DET.
422Q

REPLACE INLET GRATE W/
24" MANHOLE COVER PER
MAG STD. DET. 423-1
CONTRACTOR TO FIELD
VERIFY SIZE

**GRADING & DRAINAGE
NOTE LEGEND**

◆ HORIZONTAL OR
VERTICAL HINGE
POINT

TW=01.00
EG=01.00
XX.XX
FG=01.00
TC=01.00
EP=01.00
FL=01.00
0.50%

TOP OF WALL
EXISTING GRADE
PAVEMENT GRADE
FINISHED GRADE
TOP OF CURB
EDGE OF PAVEMENT
FLOW LINE ELEV.
FLOW LINE SLOPE

VERIFICATION SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY.

DESIGN	DRAWN	CHECKED	APPROVED	BY	DATE	NO.
SAL	JWL	JWL	SAL			

**CHINO VALLEY UNIFIED SCHOOL DISTRICT
IMPROVEMENT PROJECT**

CIVIL

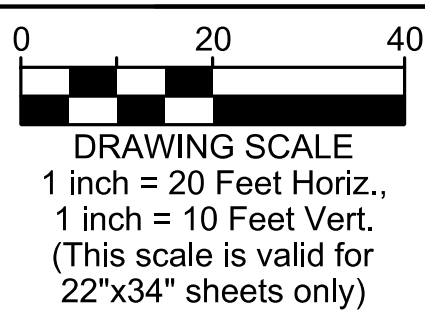
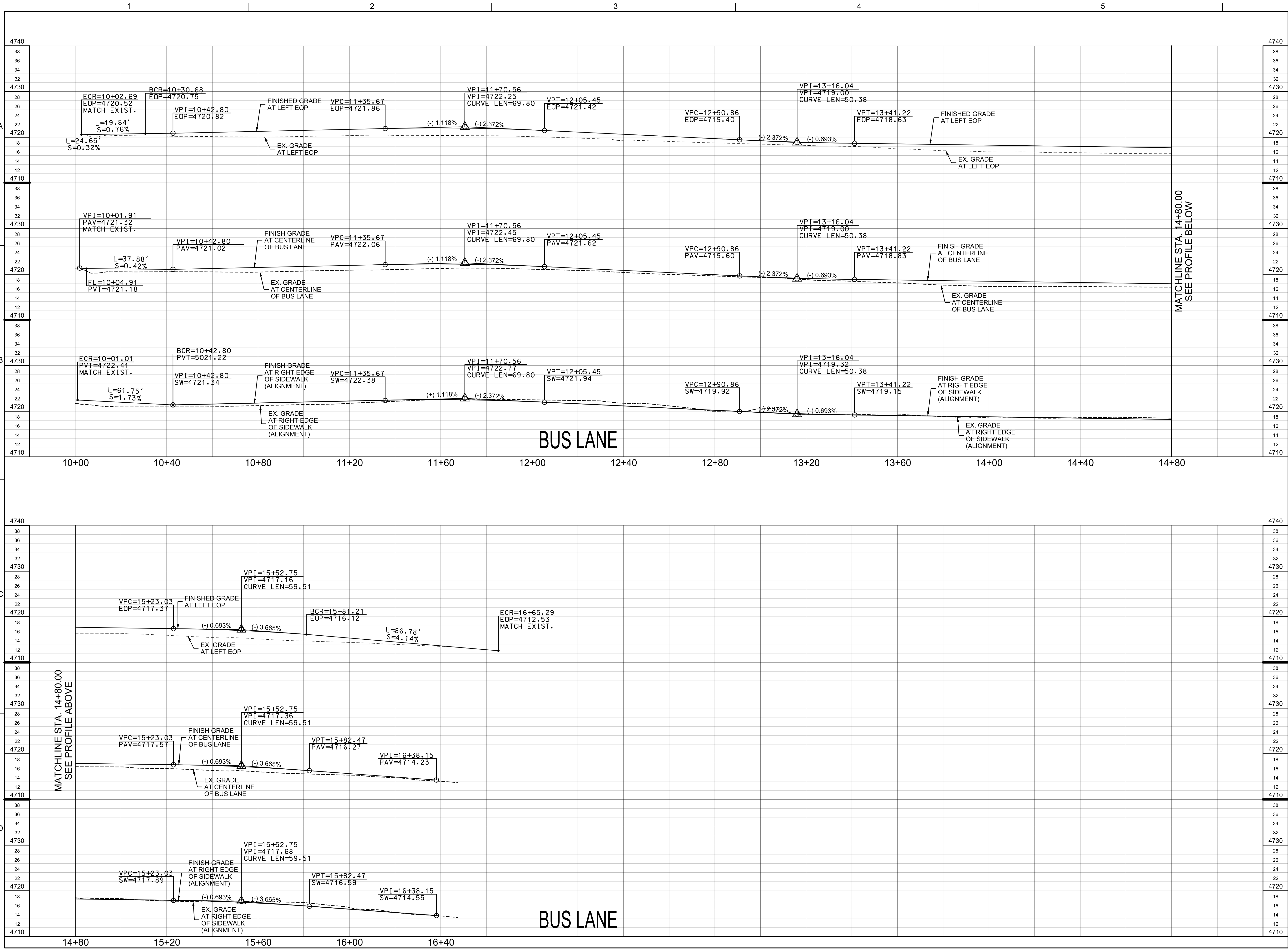
CIVIL PLAN 2

DATE
APRIL 2020

LYON PROJECT #
487-34

DRAWING NUMBER
C.03

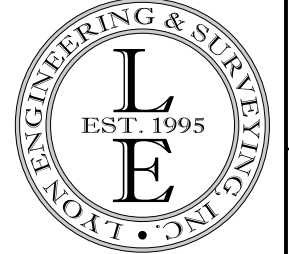
SHEET 9 OF 12



VERIFY SCALE				
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DESIGN	SAL, JWL	DRAWN	JWL	CHECKED	SAL	APPROVED	SAL

REVISION	DATE	NO.



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Prescott, AZ 86301
(928) 776-1750
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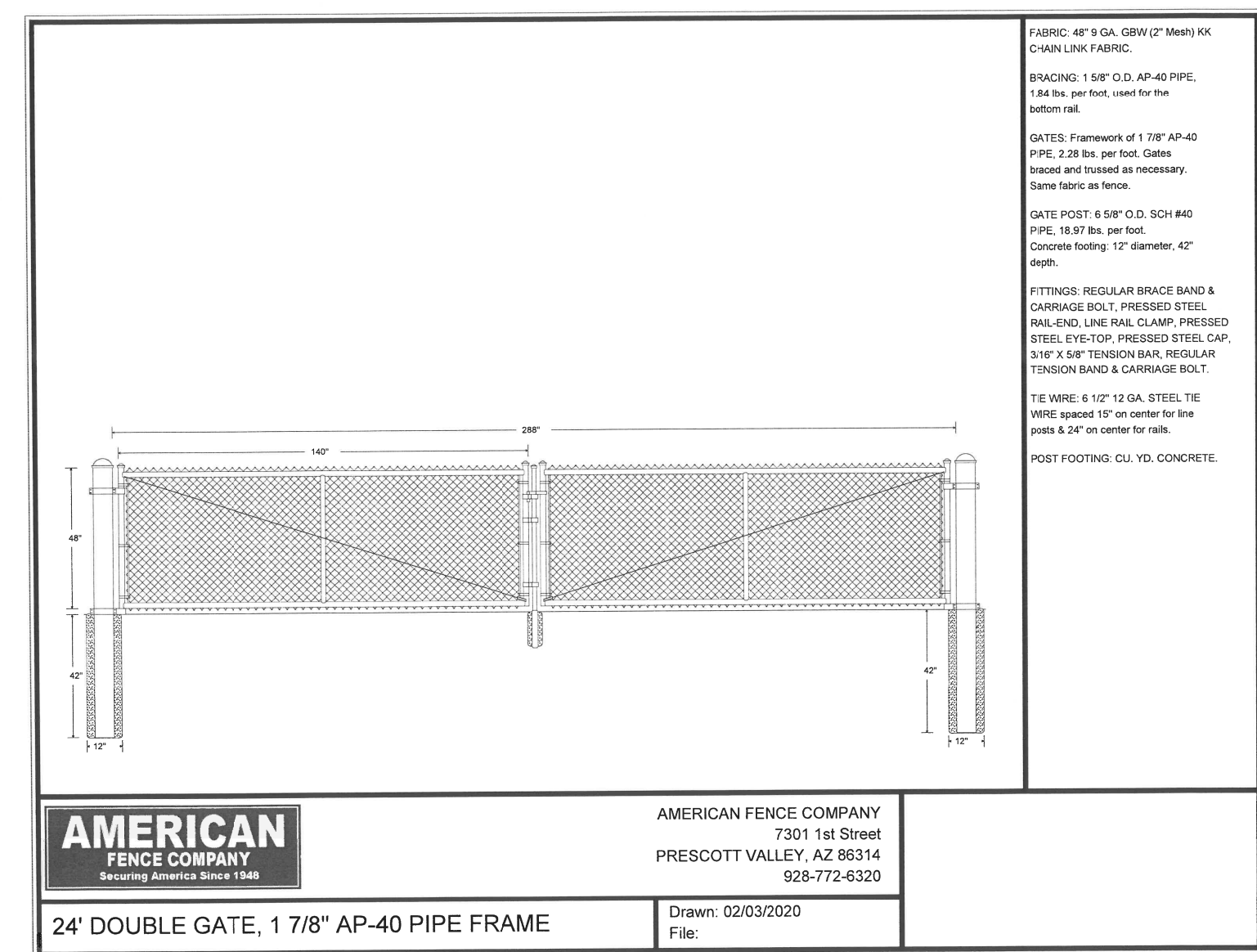
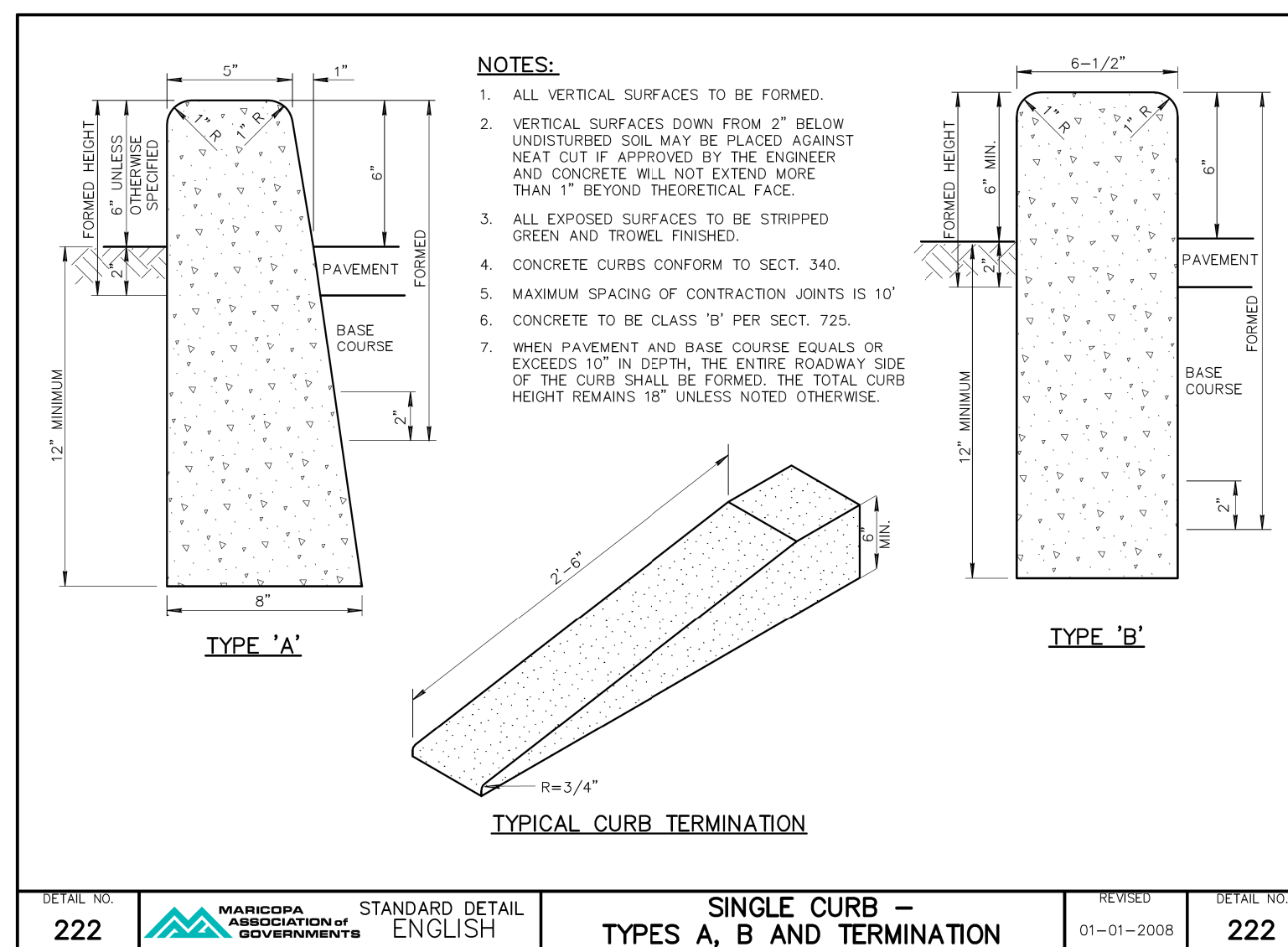
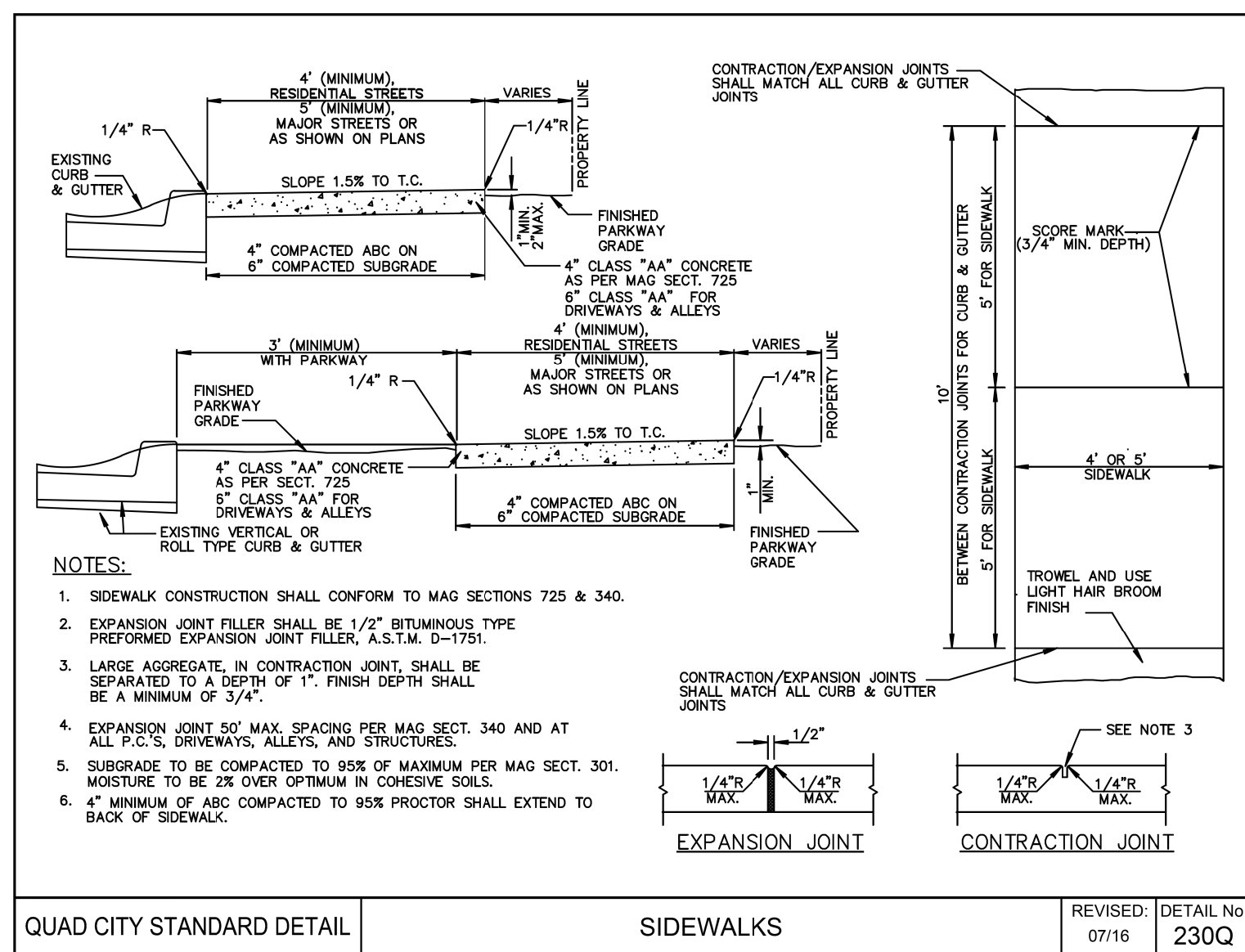
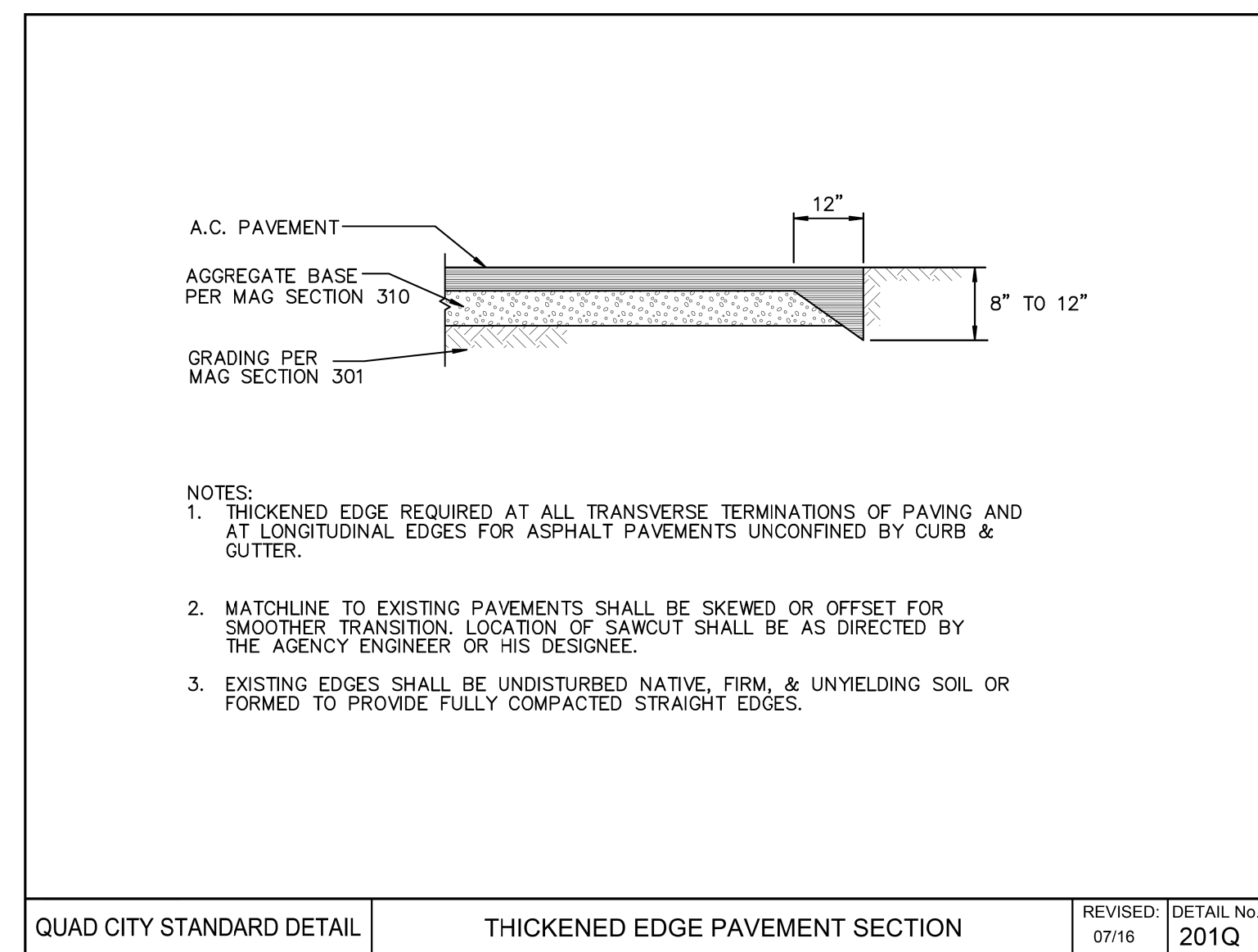
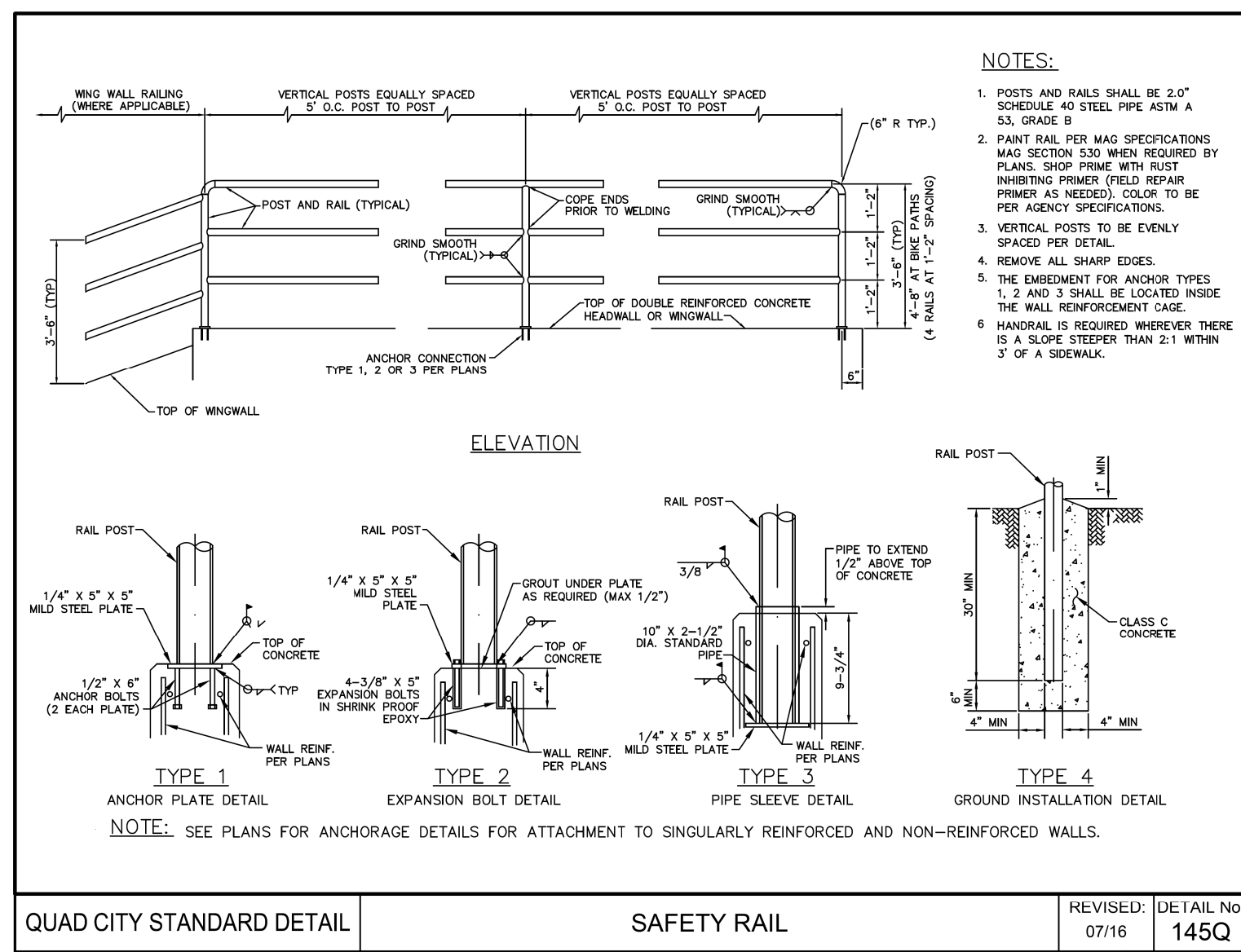
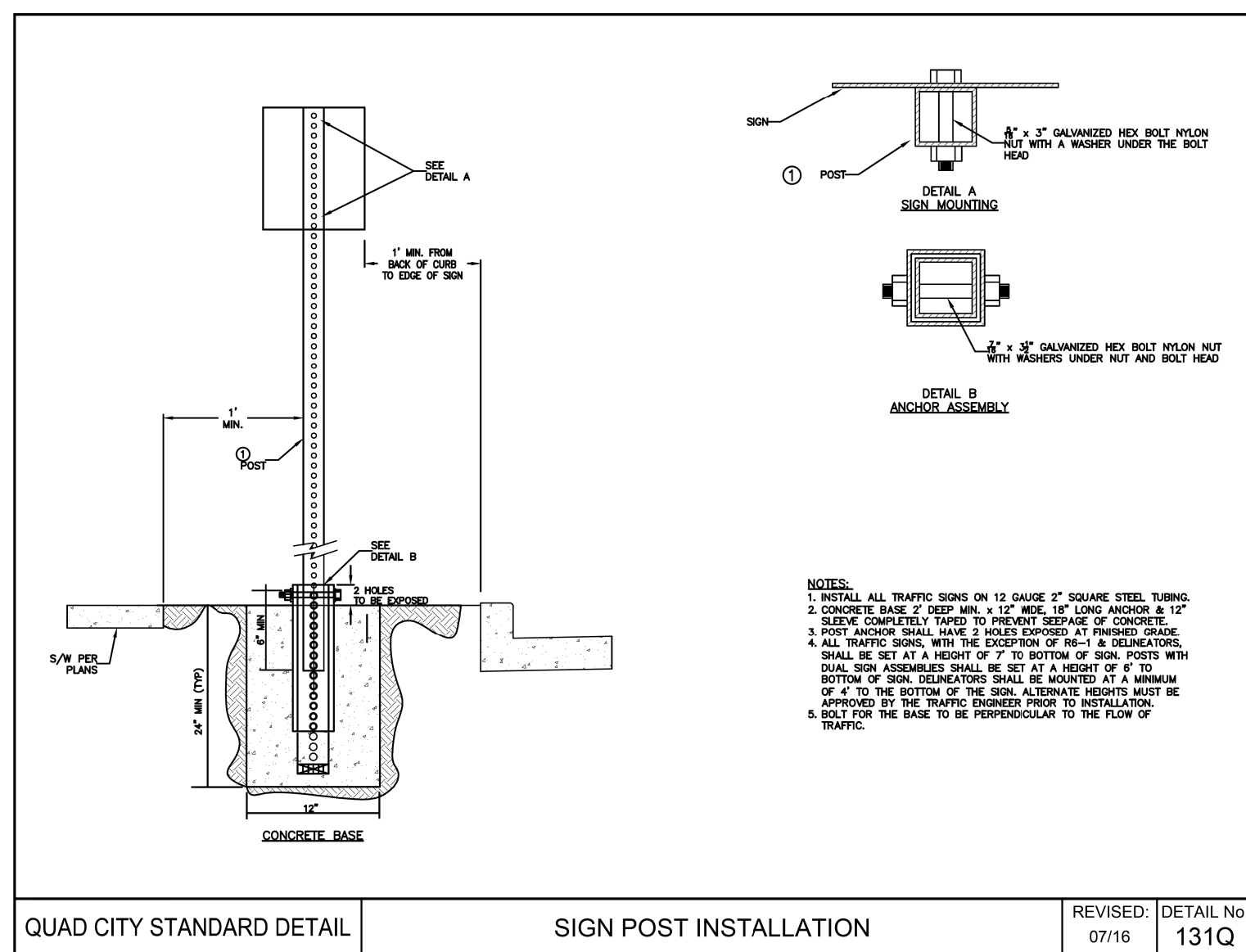
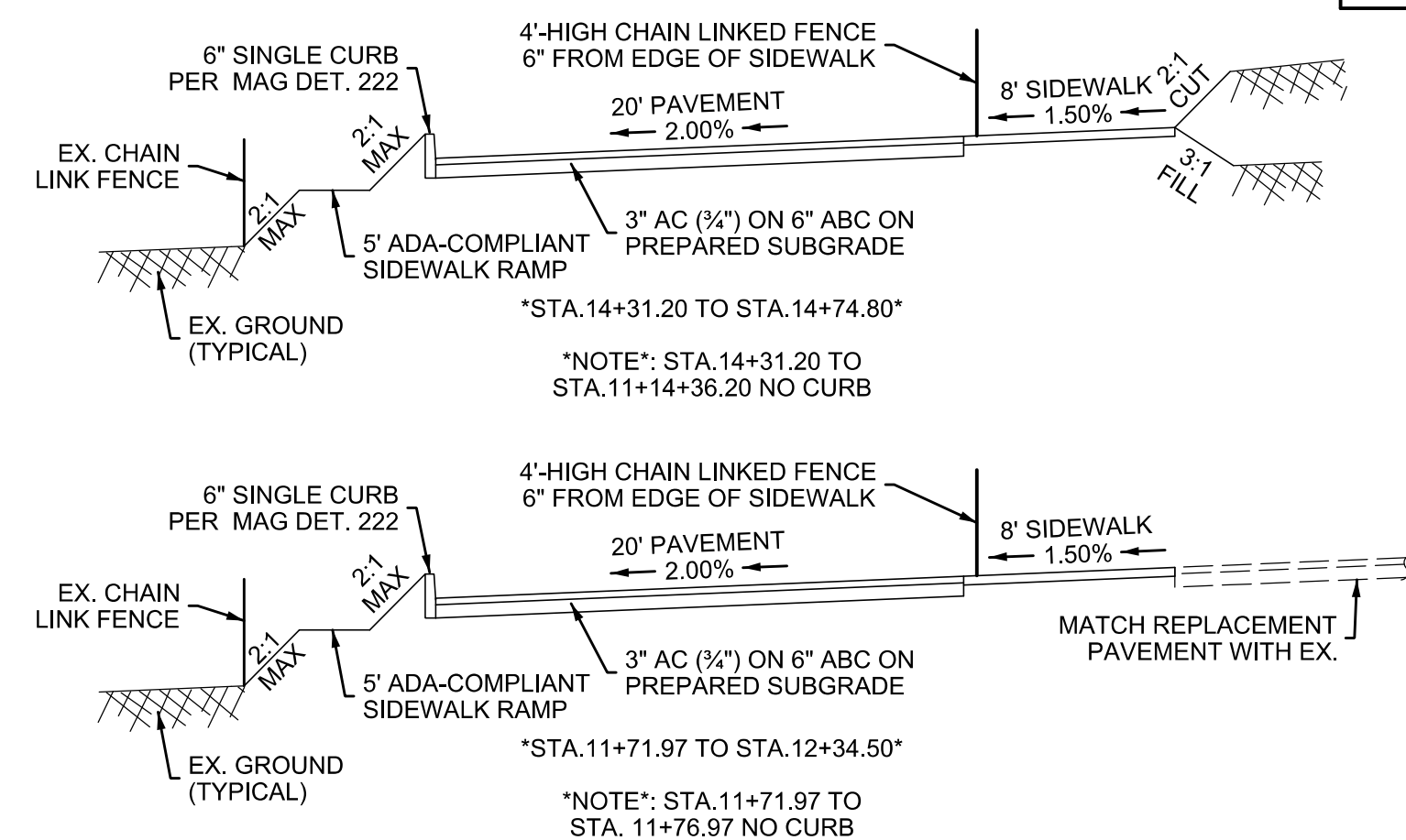
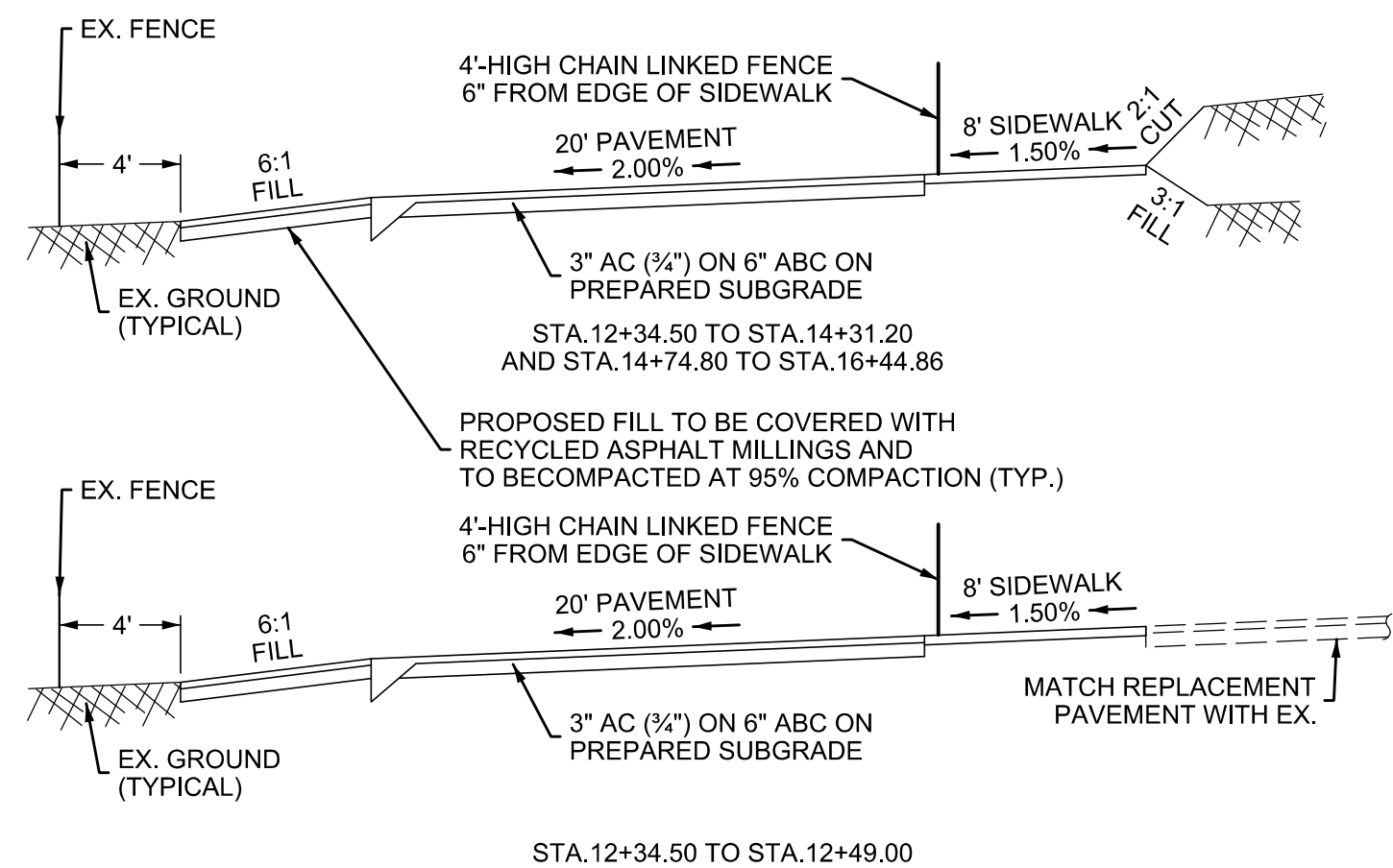


PROJECT DESCRIPTION: CHINO VALLEY UNIFIED SCHOOL DISTRICT IMPROVEMENT PROJECT	CIVIL	PROFILES
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DATE	APRIL 2020
LYON PROJECT #	487-34
DRAWING NUMBER	C.04
SHEET	10 OF 12
SCALE:	1:20

SECTION
R-2

SECTION
R-2



PROJECT DESCRIPTION: CHINO VALLEY UNIFIED SCHOOL DISTRICT IMPROVEMENT PROJECT	DATE APRIL 2020	 1650 Willow Creek Road Prescott, AZ 86301 (928) 776-1750 www.lyonengineering.com © COPYRIGHT 2019	 1650 Willow Creek Road Prescott, AZ 86301 (928) 776-1750 www.lyonengineering.com © COPYRIGHT 2019	NO. DATE REVISION BY APVD SAL	DESIGN SAL, JWVL DRAWN JWVL CHECKED SAL APPROVED SAL	VERIFY SCALE
						BAR IS ONE INCH ON ORIGINAL DRAWING. 0" ██████████ 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
SHEET 11 OF 12						

GROUTED RIP-RAP GRADATION CHART		
STONE SIZE RANGE	STONE WEIGHT RANGE	% OF GRADATION
1.5 D50 TO 1.7 D50	3.0 W50 TO 5.0 W50	100
1.2 D50 TO 1.4 D50	2.0 W50 TO 2.75 W50	85
1.0 D50 TO 1.15 D50	1.0 W50 TO 1.5 W50	50
0.4 D50 TO 0.6 D50	0.1 W50 TO 0.2 W50	0

HAND PLACED RIP-RAP GRADATION CHART (USDOT, FHWA, HEC-11)		
STONE SIZE RANGE	STONE WEIGHT RANGE	% OF GRADATION
1.5 D50 TO 1.7 D50	3.0 W50 TO 5.0 W50	100
1.2 D50 TO 1.4 D50	2.0 W50 TO 2.75 W50	85
1.0 D50 TO 1.15 D50	1.0 W50 TO 1.5 W50	50
0.4 D50 TO 0.6 D50	0.1 W50 TO 0.2 W50	15

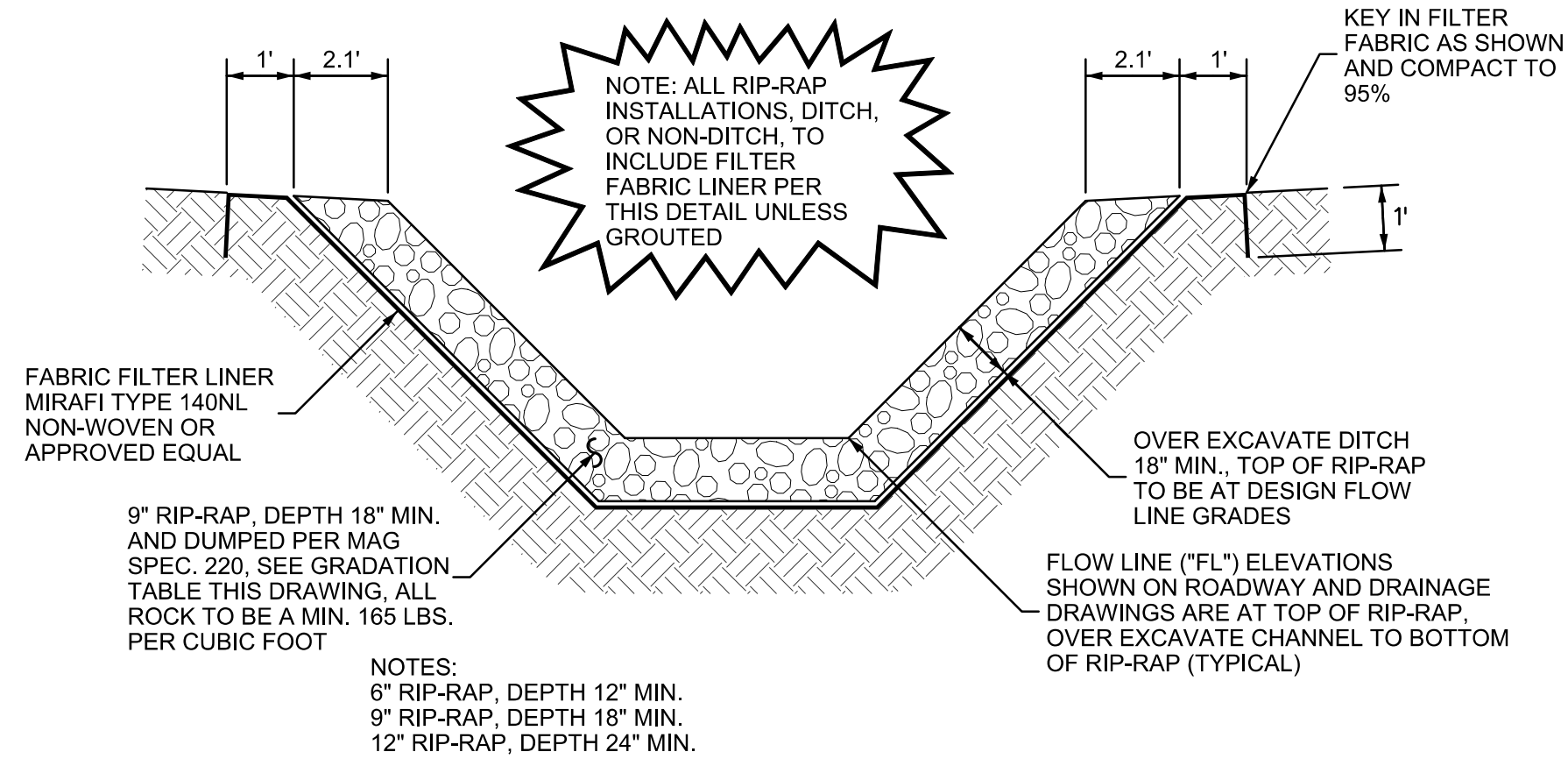
THE RATIO OF THE LARGEST SIZE ROCK TO D50 SHOULD BE ABOUT TWO (2). THE RIP-RAP BLANKET SHALL HAVE A MINIMUM THICKNESS OF 2.0 D50 OR 1.5', WHICHEVER IS GREATER.

THE SHAPE OF THE ROCK SHOULD BE "BLOCKY" RATHER THAN ELONGATED. ROCKS SHALL BE CLEAN WITH SHARP EDGES AND FLAT FACES - ROUND STONES WILL NOT BE ACCEPTABLE FOR BANK PROTECTION.

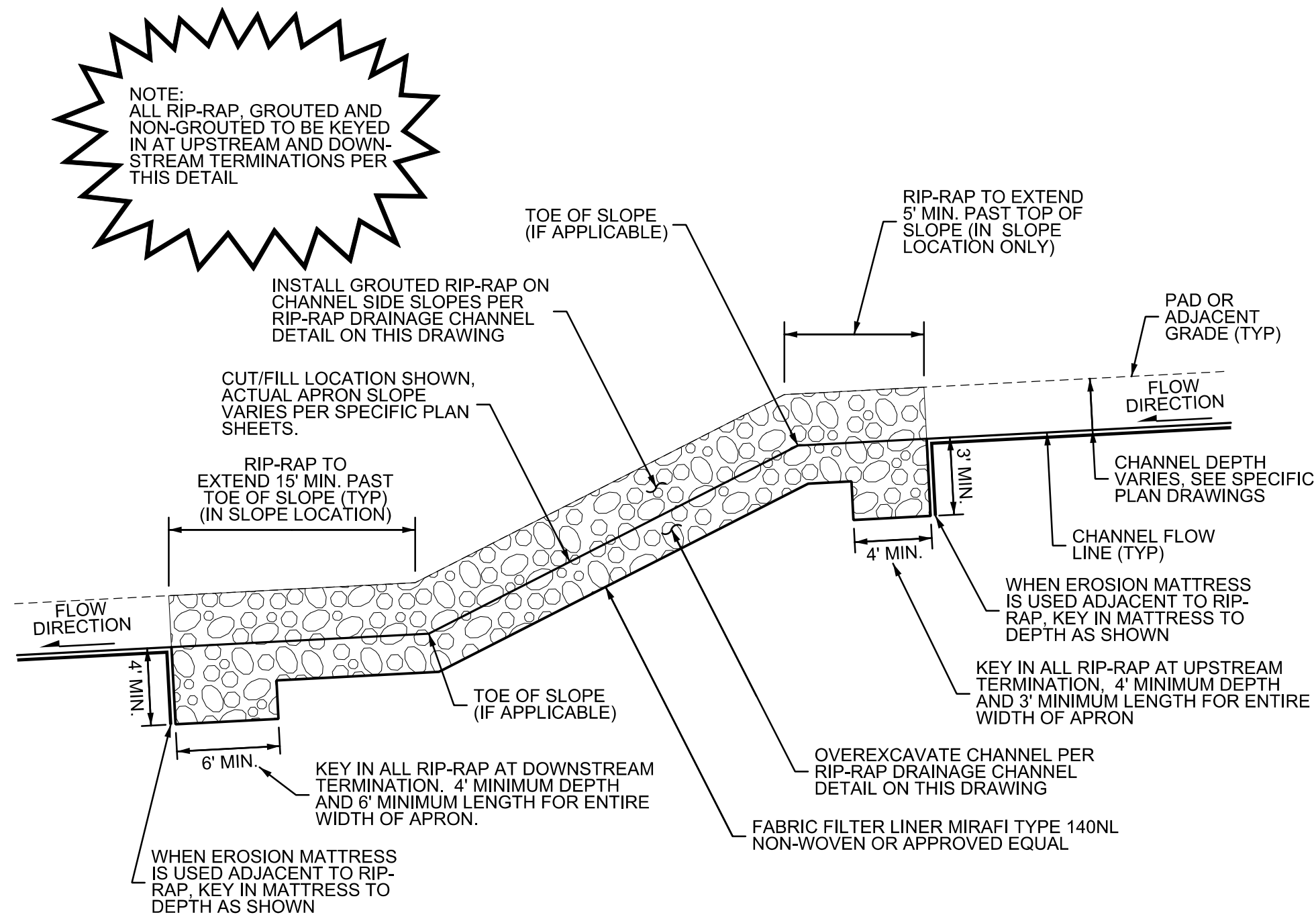
ALL RIP-RAP AREAS TO BE OVER EXCAVATED 2.0 D50 OR 1.5' MIN. BEFORE PLACEMENT SO THAT THE TOP OF THE ROCKS IS AT THE FINISH FLOW LINE ELEVATION AND/OR THE FINISH GRADE ELEVATION. INSTALL FILTER FABRIC LINER UNDER ALL RIP-RAP, MIRAFI TYPE 140NL NON-WOVEN OR APPROVED EQUAL.

ALL RIP-RAP TO BE DUMPED PER MAG STD. 220

NOTE: ALL RIP-RAP MATERIAL MUST BE APPROVED FOR GRADATION PRIOR TO DELIVERY TO THE SITE



RIP-RAP DRAINAGE CHANNEL DETAILS
NOT TO SCALE



GROUTED RIP-RAP DOWNSLOPE AND RIP-RAP KEY-IN DETAIL
NOT TO SCALE

VERIFY SCALE		DESIGN		SAL		JWL		DRAWN		JWL		CHECKED		SAL		APPROVED		SAL		BY		APVD		REVISION		DATE		NO.		A	
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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY																															
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