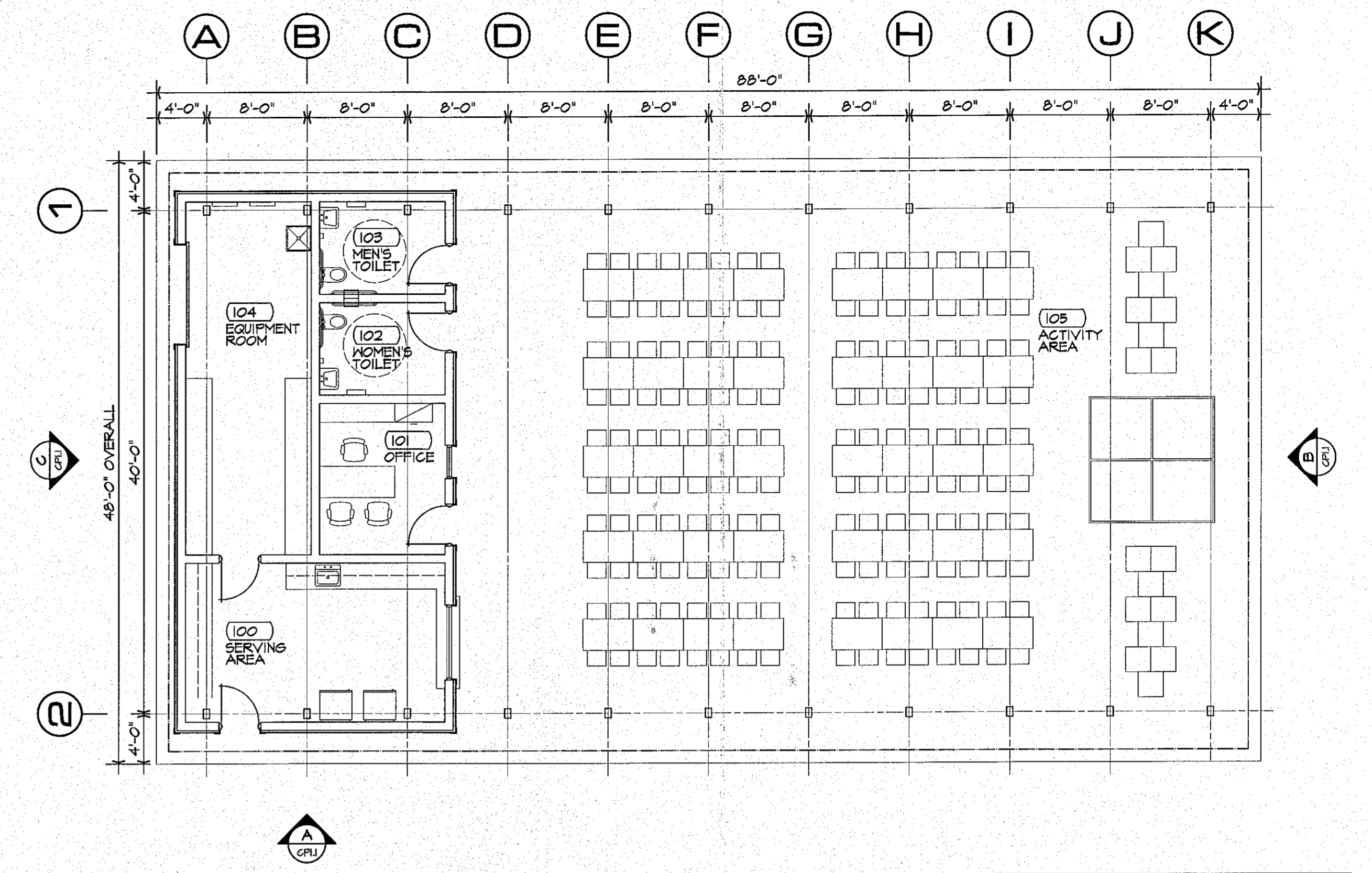
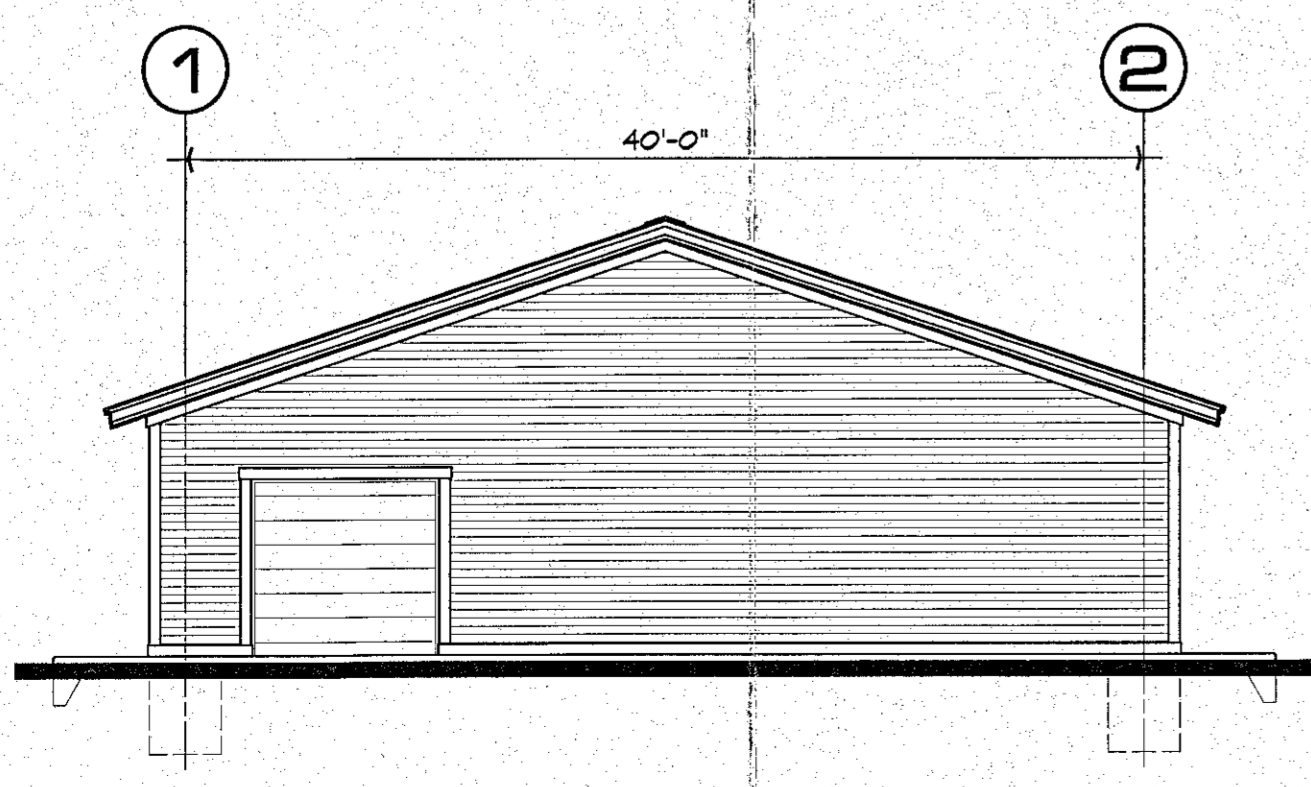


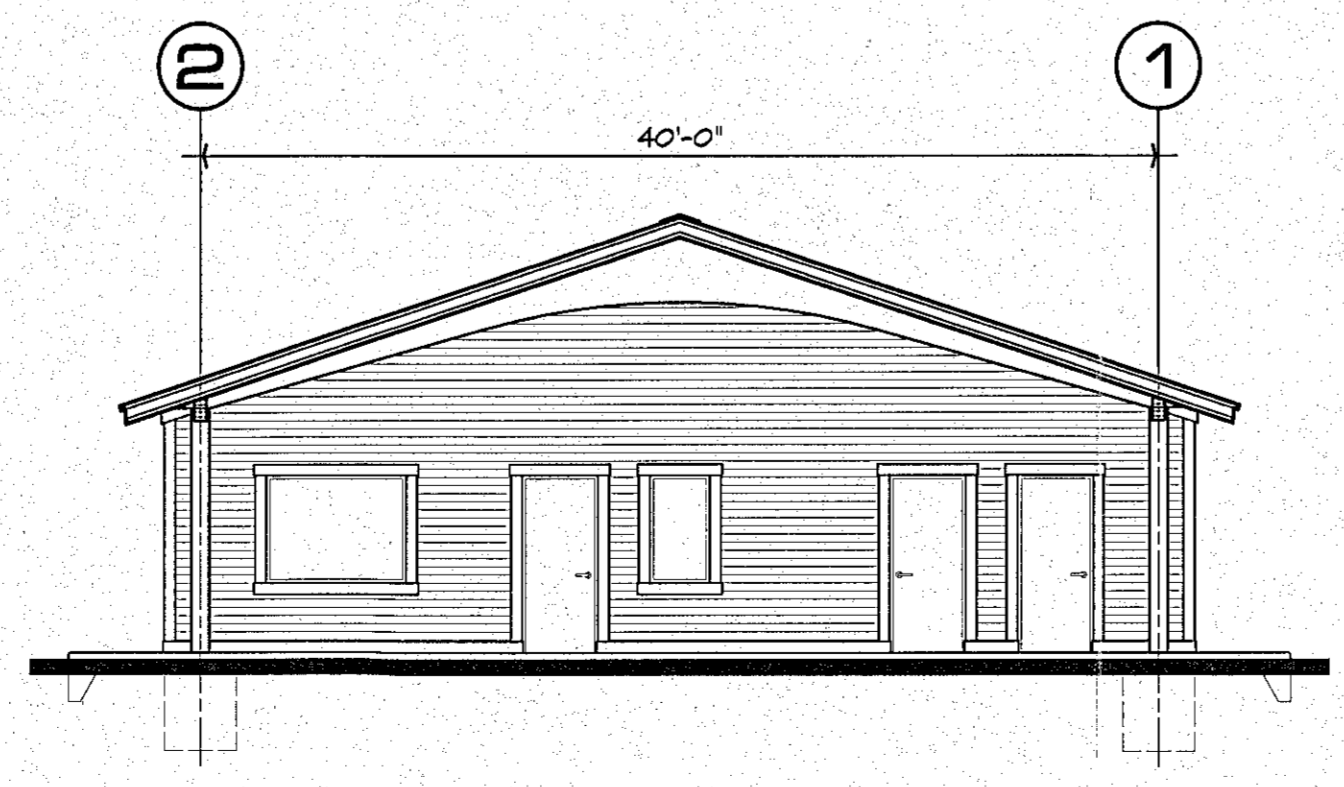
RENDERING NTS



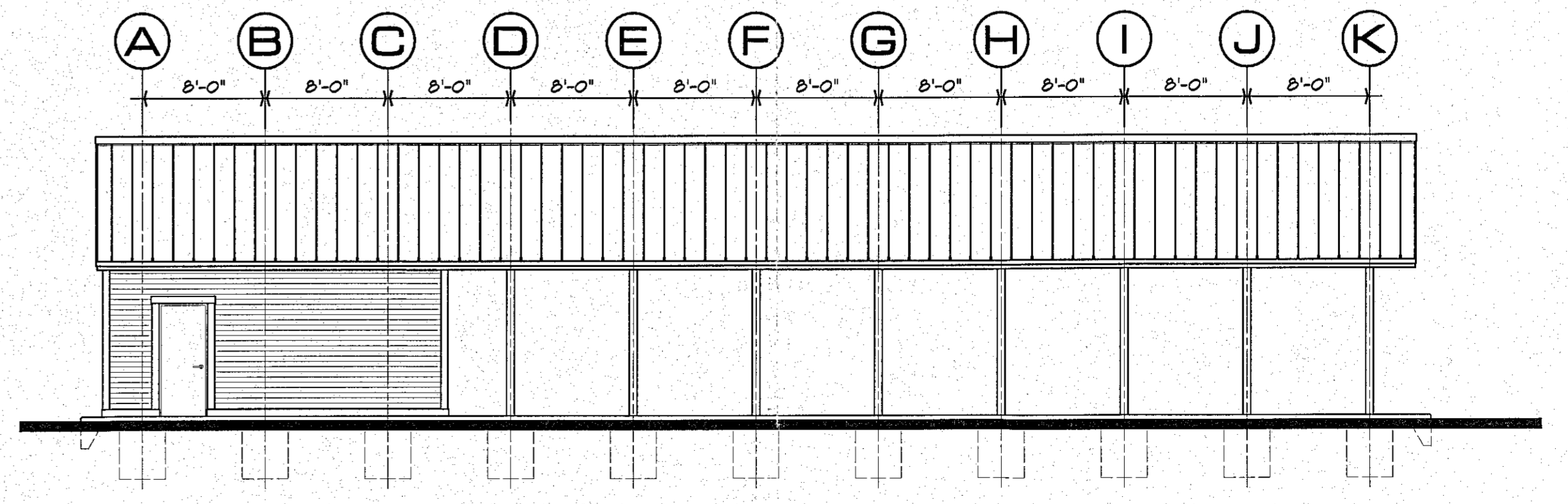
PLAN A 1/8" = 1'-0"



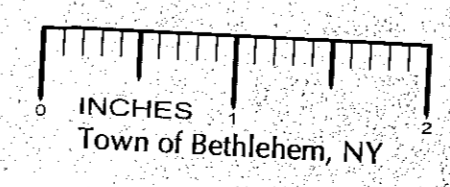
ELEVATION C 1/8" = 1'-0"



ELEVATION B 1/8" = 1'-0"



ELEVATION A 1/8" = 1'-0"



PLANNING BOARD
 TOWN OF BETHLEHEM
 ALBANY COUNTY, NEW YORK
 This Site Plan Approved.
 [Signature]
 Title: Chairman
 SPA 106A-4
 Date: March 16, 2012

FILE COPY

WOODWARD
 CONNOR
 GILLIES
 SELEMAN
 ARCHITECTS

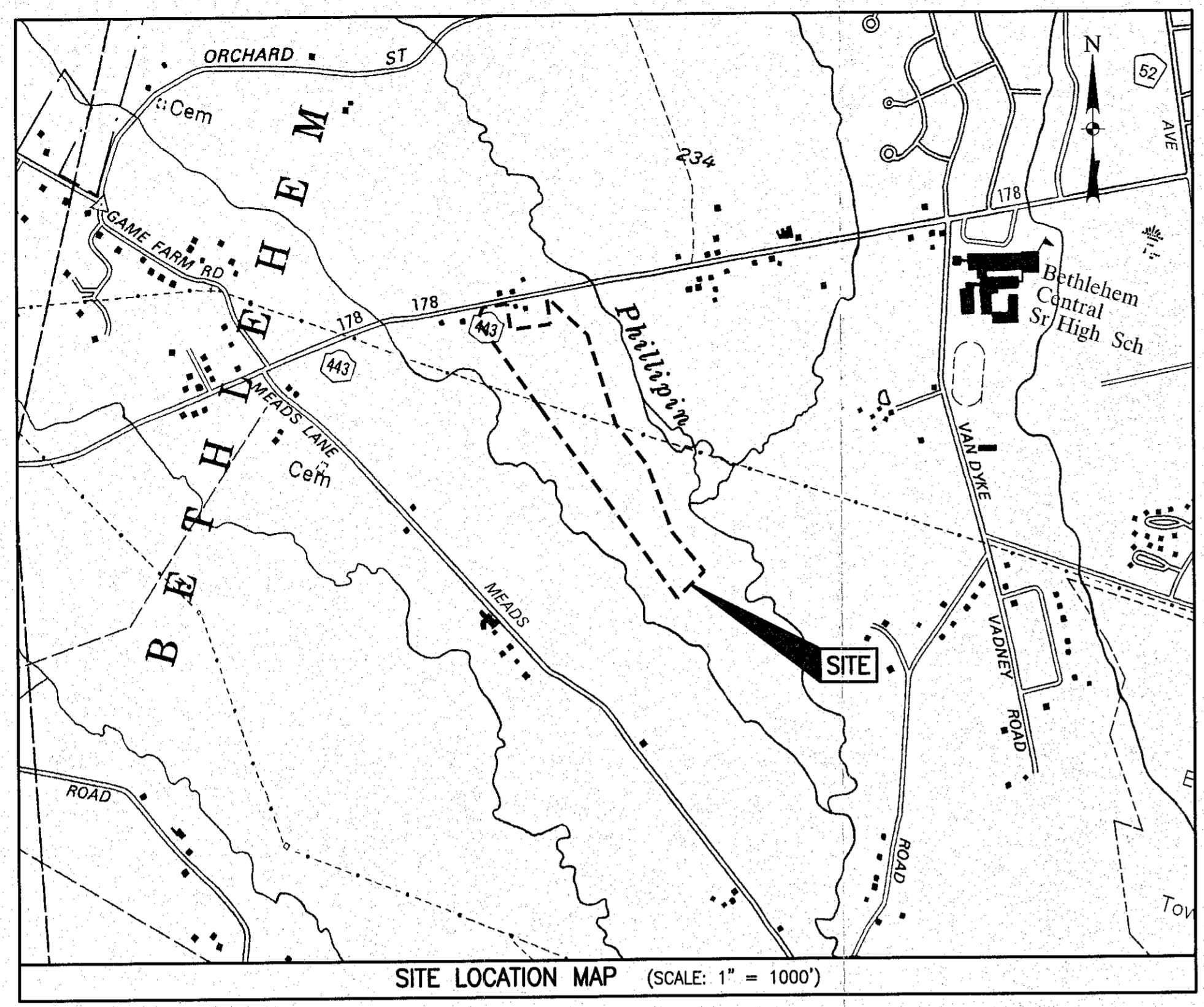
ARCHITECTURE/INTERIOR DESIGN
WOODWARD CONNOR GILLIES & SELEMAN
 80 CORPORATE WOODS BLVD. ALBANY, NEW YORK 12211 518 484-8888
 STRUCTURAL ENGINEERING
SCHODER RIVERS ASSOCIATES
 1000 STATE ST. SUITE 1000 BETHLEHEM, NY 12060 518 761-0417
 MECHANICAL/ELECTRICAL/PLUMBING ENGINEERING
QUANTUM ENGINEERING COMPANY
 48 HATCHER STREET, BETHLEHEM, NY 12060 518 767-6480



BETHLEHEM AREA YVCA BRANCH
PAVILION
 900 DELAWARE AVENUE BETHLEHEM, NEW YORK
 CONCEPT PLAN
 ELEVATIONS/ RENDERING
 SCALE:
 AS NOTED
 PRINTED ON RECYCLED PAPER
 FIRST PRINTING: OCTOBER 12, 2010

BETHLEHEM AREA YVCA BRANCH
PAVILION
 900 DELAWARE AVENUE BETHLEHEM, NEW YORK
 CONCEPT PLAN
 ELEVATIONS/ RENDERING
 SCALE:
 AS NOTED





- LEGEND**
- ⊙ SANITARY SEWER MANHOLE
 - ⊙ STORM SEWER MANHOLE
 - ⊙ WATER VALVE
 - ⊙ FIRE HYDRANT
 - ⊙ UTILITY POLE
 - ⊙ LIGHT POST
 - ⊙ SIGN
 - CATCH BASIN
 - X 101.77 SPOT ELEVATION
 - 222 — EXISTING TOPOGRAPHY
 - — — OVERHEAD ELECTRIC
 - FM — FORCE MAIN
 - SA — SANITARY SEWER
 - ST — STORM SEWER
 - W — WATER LINE
 - — — WETLAND BOUNDARY
 - — — STREAM
 - — — LIMIT OF DISTURBANCE

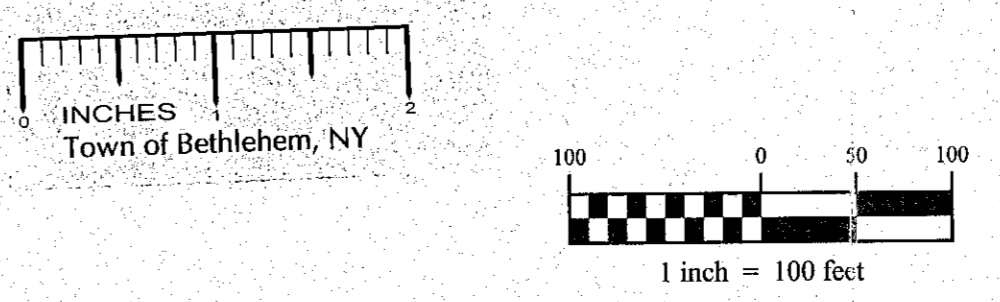
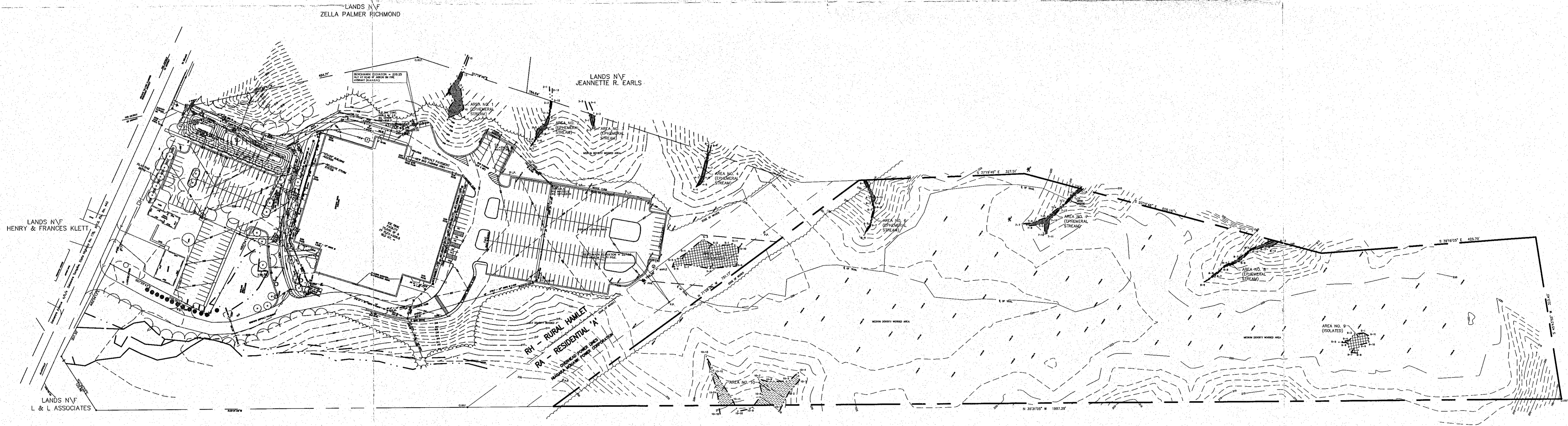
- MAP REFERENCES:**
- PROPERTY LINE INFORMATION TAKEN FROM A PLAN PREPARED BY CHARLES HITE SURVEYORS ENTITLED "LAND TITLE SURVEY" DATED OCTOBER 11, 1999 AND LAST REVISED 3/2/06.
 - BASEMAPMING FOR PORTION OF SITE NORTH OF THE OVERHEAD POWER LINES IS FROM PLAN ENTITLED "PROPOSED SITE IMPROVEMENTS, PHASE 1, 900 DELAWARE AVENUE, CAPITAL DISTRICT YMCA", DATED APRIL 2005, NO REVISIONS LISTED, PREPARED BY ABD ENGINEERS AND SURVEYORS.
- NOTES:**
- TOPOGRAPHIC SURVEY OF THE PORTION OF THE SITE INCLUDING AND SOUTHERLY OF THE OVERHEAD POWER LINES WAS COMPLETED BY CREIGHTON MANNING ENGINEERING, LLP IN OCTOBER 2008.
 - WETLAND DELINEATION OF THE PORTION OF THE SITE INCLUDING AND SOUTHERLY OF THE OVERHEAD POWER LINES PROVIDED BY NORTH COUNTRY ECOLOGICAL SERVICES, INC. IN OCTOBER 2008.

WETLAND LEGEND

PREVIOUSLY SURVEYED WETLAND	
POTENTIAL ISOLATED WETLAND	
EPHEMERAL STREAM	
WETLAND	

WETLAND SUMMARY TABLE

AREA DESIGNATION	AREA (AC)	TYPE	LENGTH OF STREAM (LF)
1	0.035	EPHEMERAL STREAM	56
2	0.012	EPHEMERAL STREAM	91
3	0.004	EPHEMERAL STREAM	30
4	0.008	EPHEMERAL STREAM	70
5	0.112	ISOLATED WETLAND	
6	0.010	EPHEMERAL STREAM	110
7	0.022	EPHEMERAL STREAM	95
8	0.017	EPHEMERAL STREAM	158
9	0.025	ISOLATED WETLAND	
10	0.099	WETLAND	



PLANNING BOARD
 TOWN OF BETHLEHEM
 ALBANY COUNTY, NEW YORK

This Site Plan Approved.

George J. ...
 Title: Chairman
 Date: March 16, 2012

Last Saved by: Kyle Swartz
 Plot Date: November 4, 2010 12:23 PM
 File Name: P:\Proposals\08106-100 Bethlehem YMCA\08106-100_C1-1-EXISTING.dwg

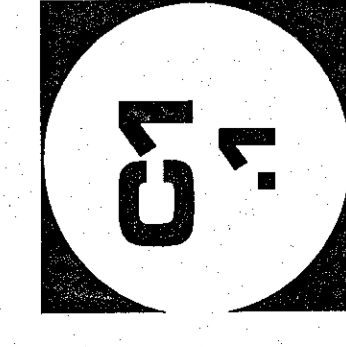
ARCHITECTURE/INTERIOR DESIGN
WOODWARD CONNOR GILLIES & SELEMAN
 300 DELAWARE AVENUE, ALBANY, NEW YORK 12211
 518.434.8268
 CIVIL ENGINEERING
CREIGHTON MANNING ENGINEERING, LLP
 17 COMPUTER DRIVE WEST, ALBANY, NEW YORK 12205
 518.446.0808

BETHLEHEM AREA YMCA BRANCH
PAVILION
 900 DELAWARE AVENUE
 BETHLEHEM, NEW YORK

EXISTING CONDITIONS PLAN
 SCALE: AS NOTED

BETHLEHEM AREA YMCA BRANCH
PAVILION
 900 DELAWARE AVENUE
 BETHLEHEM, NEW YORK

ARCHITECTURE/INTERIOR DESIGN
WOODWARD CONNOR GILLIES & SELEMAN
 300 DELAWARE AVENUE, ALBANY, NEW YORK 12211
 518.434.8268
 CIVIL ENGINEERING
CREIGHTON MANNING ENGINEERING, LLP
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ZONING TABLE		
ZONING DISTRICT 'RA' RESIDENTIAL 'A'		
DESCRIPTION	ALLOWABLE	PROPOSED
MIN. FRONT YARD	35' TO NORTHERN R.O.W.	±108'
MIN. SIDE YARD	10'	±172'
MIN. REAR YARD	25'	±1,527'
HIGHWAY FRONTAGE	70'	±750'
MAX. BUILDING HEIGHT	30'	
LOT DEPTH	120'	±1,670'
LOT WIDTH	100'	±372'
MAX. LOT COVERAGE	20%	±0.56%

OWNER / APPLICANT:
 CAPITAL DISTRICT YMCA
 465 NEW CARNER ROAD
 ALBANY, NY 12205

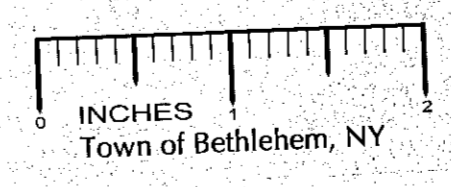
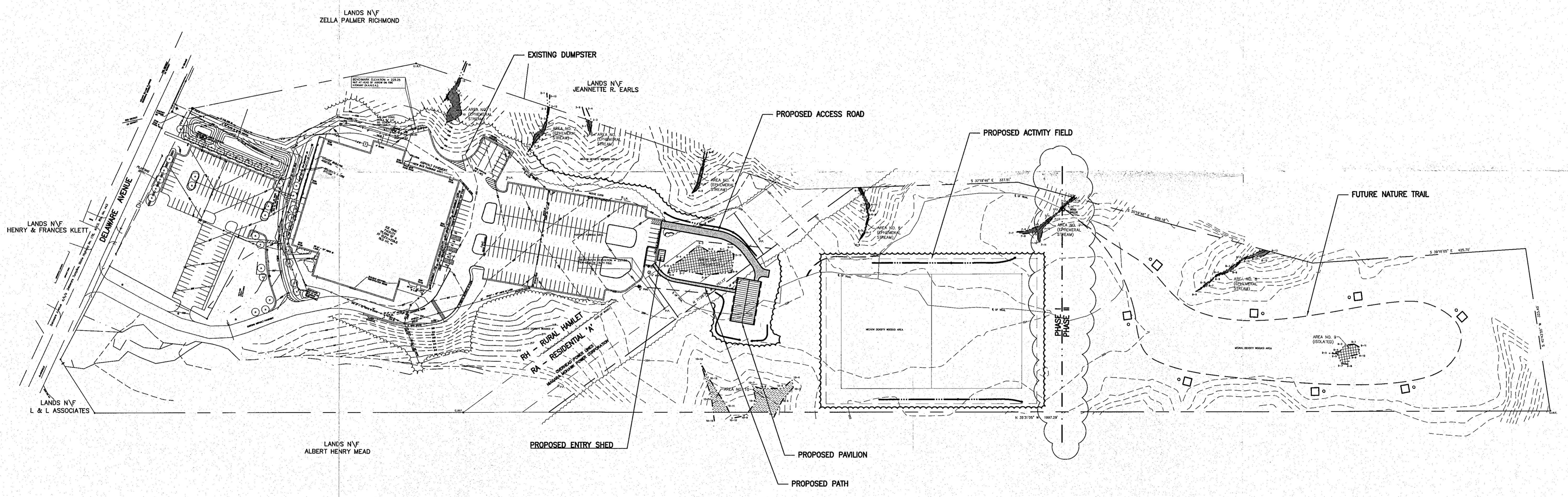
TAX MAP S.B.L.: 96.00-1-5.01
 SITE AREA: 29.8 ACRES

PROJECT SITE IS GREATER THAN 100' TO PHILIPIN CREEK

WOODWARD
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 ARCHITECTS

ARCHITECTURE/INTERIOR DESIGN
WOODWARD CONNOR GILLIES & SELEMAN
 80 CORPORATE WOODS BLVD. ALBANY, NEW YORK 12211
 518-264-2898

CIVIL ENGINEERING
CREIGHTON MANNING ENGINEERING, LLP
 17 COMPUTER DRIVE WEST ALBANY, NEW YORK 12205
 518-446-0886

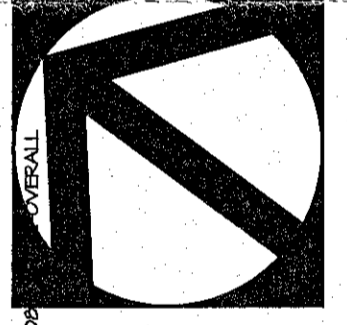
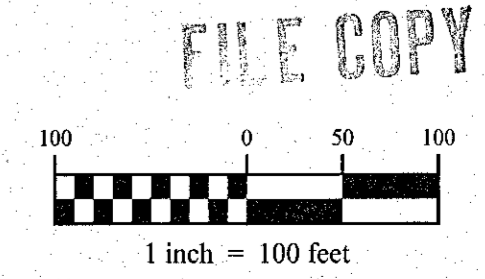


PLANNING BOARD
 TOWN OF BETHLEHEM
 ALBANY COUNTY, NEW YORK

This Site Plan Approved.

Mayor
 Title: *Chairman*
 SPA 106-PA

Date: *March 16, 2012*



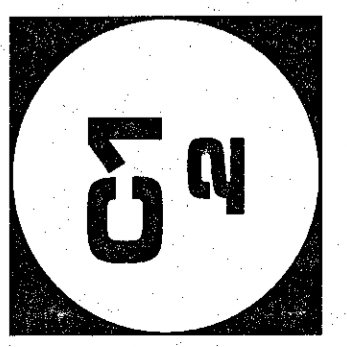
PROJECT: SPA106-PA-120 BETHLEHEM, NY
 FIRST PRINTING: NOVEMBER 2, 2010
 REV 1: FEBRUARY 4, 2011

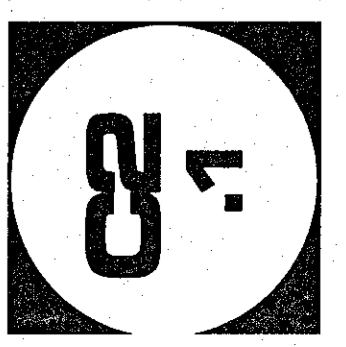
BETHLEHEM AREA YMCA BRANCH
 PAVILION
 500 DELAWARE AVENUE
 BETHLEHEM, NEW YORK

AS NOTED

OVERALL SITE PLAN

SCALE:





GENERAL NOTES

1. CONTRACTOR TO STABILIZE SITE PER EROSION AND SEDIMENT CONTROL PLAN AND NEW YORK STATE EROSION AND SEDIMENT CONTROL MANUAL.
2. TOPSOIL AND SEED ALL DISTURBED AREAS
3. ALL COVER MATERIALS TO BE RECYCLED.
4. THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE FOR INFORMATION ONLY, AND ALL UTILITIES MAY NOT BE SHOWN. THE CONTRACTOR SHALL CONTACT U.F.P.O. (1-800-962-7982) AND THE PROPER LOCAL AUTHORITIES OR RESPECTIVE UTILITY COMPANY HAVING JURISDICTION TO CONFIRM THE LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. ANY COSTS INCURRED BY THE CONTRACTOR DUE TO FAILURE TO CONTACT THE PROPER AUTHORITIES SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR.
5. CONTRACTOR TO SECURE ALL REQUIRED PERMITS PRIOR TO COMMENCEMENT OF SITE WORK.

EROSION AND SEDIMENT CONTROL NOTES

1. THE CONTRACTOR UNDERTAKING SITE CONSTRUCTION OF THIS PROJECT SHALL SIGN THE CERTIFICATION CONTAINED IN APPENDIX 'G' OF THE SWPPP. CONTRACTOR SHALL BE FAMILIAR WITH ALL REQUIREMENTS OF THE SWPPP AND REQUIREMENTS OF THE NYS DEC SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITY - PERMIT NO. GP-0-10-001 (APPENDIX 'F').
2. THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH THE TERMS OF THE NYS DEC SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITY - PERMIT NO. GP-0-10-001. COPIES OF THE GENERAL PERMIT ARE INCLUDED IN SWPPP (APPENDIX 'F').
3. A NOTICE OF INTENT (NOI) MUST BE SUBMITTED TO DEC PRIOR TO INITIATING WORK.
4. THE SWPPP INCLUDES INFORMATION BASED ON THESE SITE PLANS AND THE STORMWATER MANAGEMENT REPORT.
5. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL HAVE THE ENGINEER CONDUCT AN ASSESSMENT OF THE SITE AND CERTIFY IN AN INSPECTION REPORT THAT THE APPROPRIATE EROSION AND SEDIMENT CONTROLS HAVE BEEN ADEQUATELY INSTALLED. FOLLOWING COMMENCEMENT OF CONSTRUCTION, THE ENGINEER SHALL MAKE WEEKLY SITE INSPECTIONS AND INSPECTIONS WITHIN 24 HOURS OF A STORM EVENT OF 0.5 INCHES OR GREATER AND SHALL PREPARE A REPORT AS REQUIRED BY THE GP-0-10-001.
6. THE CONTRACTOR SHALL MAINTAIN A RECORD OF ALL INSPECTION REPORTS IN A SITE LOG BOOK, MAINTAINED ON SITE AND AVAILABLE TO THE PERMITTING AUTHORITY UPON REQUEST.
7. AT COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PERFORM A FINAL INSPECTION TO CERTIFY THAT THE SITE HAS UNDERGONE FINAL STABILIZATION AND THAT ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS HAVE BEEN REMOVED. UPON CERTIFICATION OF COMPLETION A NOTICE OF TERMINATION (NOT) SHALL BE FILED WITH NYS DEC.
8. ALL INFILTRATION AREAS SHOULD BE PROTECTED FROM HEAVY EQUIPMENT SOIL COMPACTION. THE USE OF LIGHT EQUIPMENT, TRACKED VEHICLES OR VEHICLES WITH OVERSIZED TIRES IS ENCOURAGED. WHERE PROTECTION AGAINST COMPACTION CANNOT BE MAINTAINED "DEEP RIPPING AND DECOMPACTION" WILL BE REQUIRED.

TEMPORARY SOIL STABILIZATION

SEE SWPPP BMP SPECIFICATIONS FOR TEMPORARY SEEDING AND MULCHING SPECIFICATIONS.

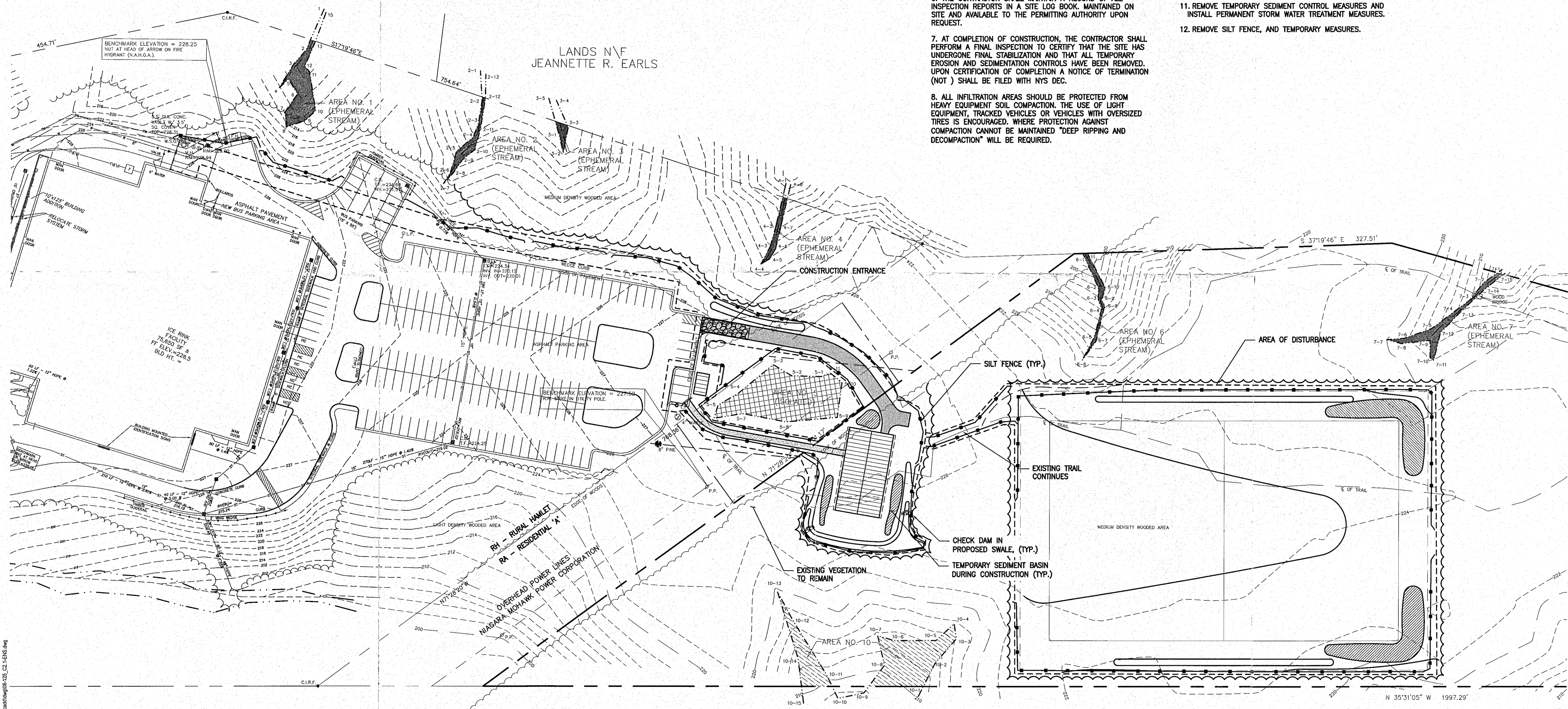
SEQUENCE OF CONSTRUCTION

1. CONTRACTOR TO ARRANGE PRE-CONSTRUCTION MEETING WITH OWNER, TOWN AND ENGINEER.
2. INSTALL SILT FENCE, CONSTRUCTION FENCE, STABILIZED CONSTRUCTION ENTRANCES, TEMPORARY DIVERSIONS AND TEMPORARY SEDIMENT CONTROL MEASURES.
3. HAVE INITIAL EROSION AND SEDIMENT CONTROLS INSPECTED BY SWPPP INSPECTOR.
4. CLEARLY MARK AREAS AND VEGETATION TO BE PROTECTED DURING CONSTRUCTION.
5. CONTRACTOR TO CLEAR AND GRUB THE SITE, PERFORM ROUGH GRADING INCLUDING EROSION CONTROL MEASURES.
6. INSTALL UTILITIES, STRUCTURES AND PIPING.
7. INSTALL ELECTRICAL CONDUITS.
8. CONSTRUCT BUILDING.
9. FINE GRADE ACCESS ROAD AND STABILIZE GREEN SPACE AREAS WITH SEED OR TURF.
10. INSTALL GRAVEL AREAS AND PATHS.
11. REMOVE TEMPORARY SEDIMENT CONTROL MEASURES AND INSTALL PERMANENT STORM WATER TREATMENT MEASURES.
12. REMOVE SILT FENCE, AND TEMPORARY MEASURES.

LEGEND	
SILT FENCE	
TEMPORARY SEDIMENT BASIN	
TEMPORARY CONSTRUCTION ENTRANCE	

ZELLA PALMER RICHMOND

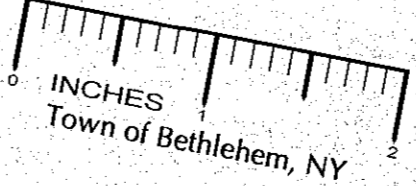
LANDS N\F
 JEANNETTE R. EARLS



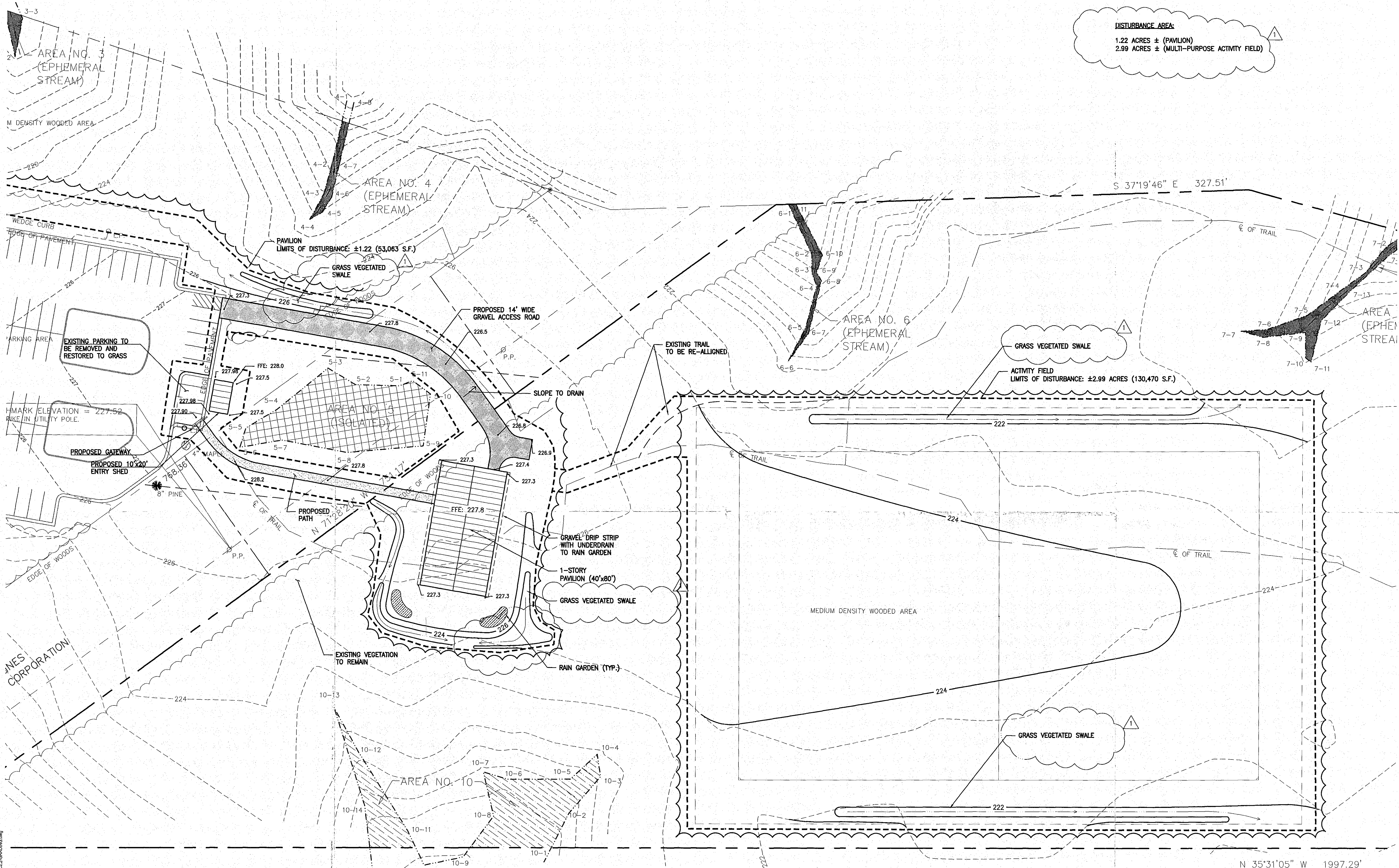
LANDS N\F
 ALBERT HENRY MEAD

PLANNING BOARD
 TOWN OF BETHLEHEM
 ALBANY COUNTY, NEW YORK
 This Site Plan Approved:

 Title: Chairman
 SPA 106 P.4
 Date: March 16, 2012



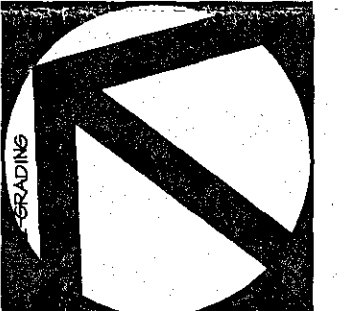
FILE COPY



DISTURBANCE AREA:
 1.22 ACRES ± (PAVILION)
 2.99 ACRES ± (MULTI-PURPOSE ACTIVITY FIELD)

WOODWARD
 CONNOR
 GILLIES
 SELEMAN
 ARCHITECTS

ARCHITECTURE/INTERIOR DESIGN
WOODWARD CONNOR GILLIES & SELEMAN
 80 CORPORATE WOODS BLVD. ALBANY, NEW YORK 12211
 518 434-2888
 CIVIL ENGINEERING
CREIGHTON MANNING ENGINEERING, LLP
 17 COMPUTER DRIVE WEST ALBANY, NEW YORK 12208
 518 446-0088



PROJECT NO. 09-020 BETHLEHEM YMCA/09-020
 FIRST PRINTING NOVEMBER 2, 2010
 REV. 1 FEBRUARY 4, 2011
 PRINTED ON: PAPER 4, 2011

BETHLEHEM AREA YMCA BRANCH
 BETHLEHEM, NEW YORK

PAVILION
 800 DELAWARE AVENUE
 GRADING PLAN
 SCALE: AS NOTED



Lot 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, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

N 35°31'05" W 1997.29'
 PLANNING BOARD
 TOWN OF BETHLEHEM
 ALBANY COUNTY, NEW YORK
 This Site Plan Approved.
 [Signature]
 Title: Chairman
 Date: March 16, 2012
 SPA106 A-4

INCHES
 Town of Bethlehem, NY

1 inch = 30 feet

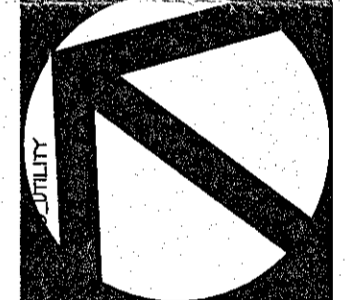
FILE COPY

GENERAL NOTES

1. EMERGENCY 911 ADDRESS FOR PAVILION SHALL BE 900P DELAWARE AVENUE.
2. OWNER SHALL CONSIDER POSTING "NO TRESPASSING" SIGNS ALONG PROPERTY BOUNDARY

WOODWARD
 CONNOR
 GILLIES
 SELEMAN
 ARCHITECTS

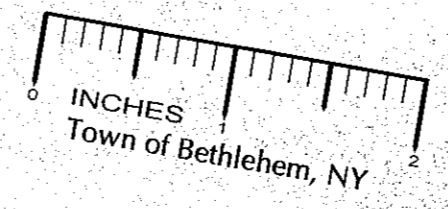
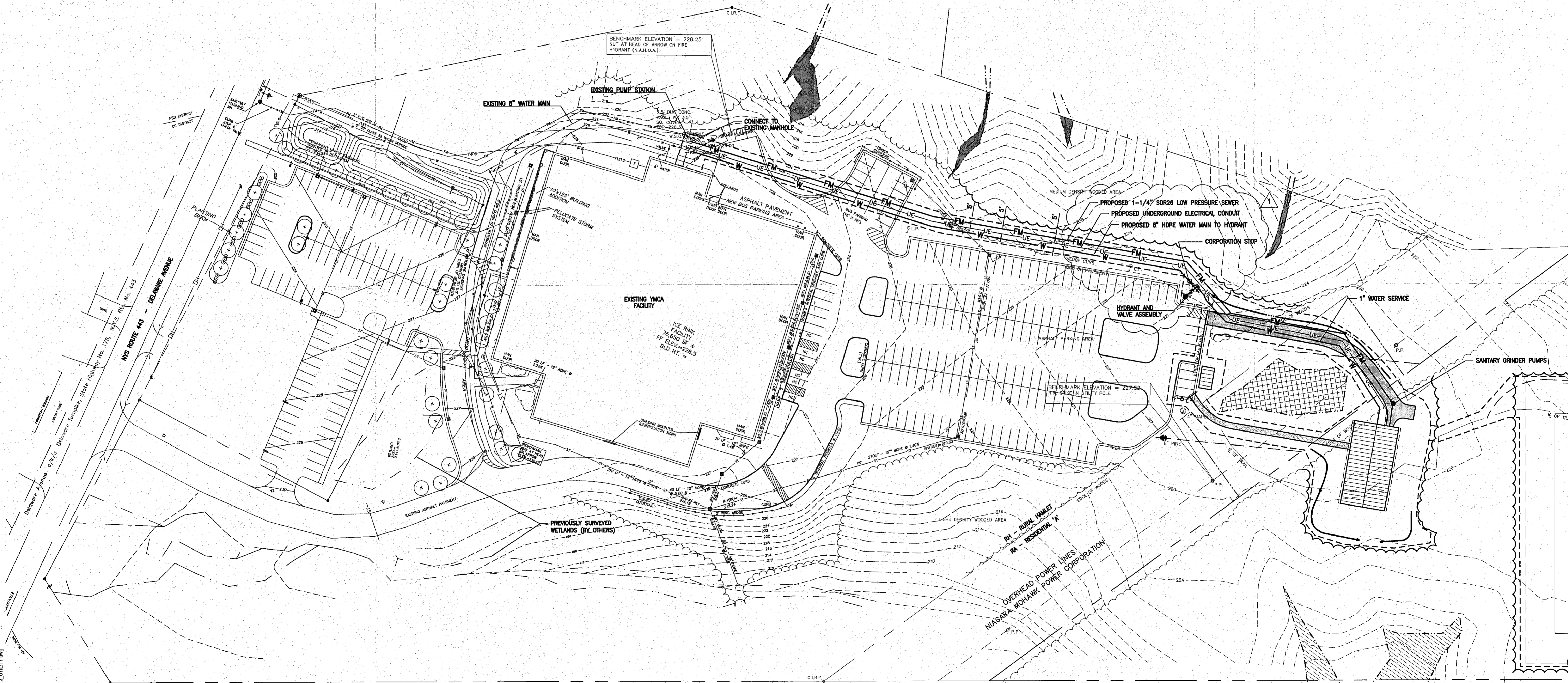
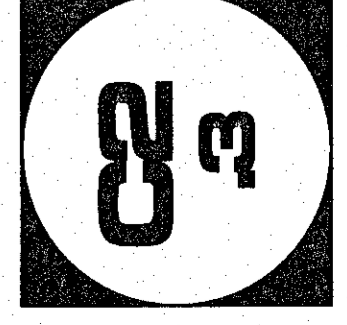
ARCHITECTURE/INTERIOR DESIGN
WOODWARD CONNOR GILLIES & SELEMAN
 80 CORPORATE WOODS BLVD. ALBANY, NEW YORK 12211
 518-484-2338
 CIVIL ENGINEERING
CREIGHTON MANNING ENGINEERING, LLP
 17 COMPUTER DRIVE WEST ALBANY, NEW YORK 12205
 518-446-0888



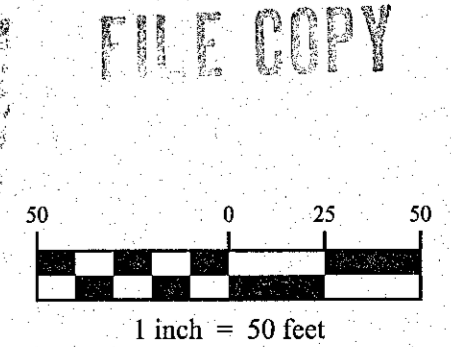
PROJECT NO. SPA106A4-020
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BETHLEHEM AREA YMCA BRANCH
PAVILION
 900 DELAWARE AVENUE BETHLEHEM, NEW YORK

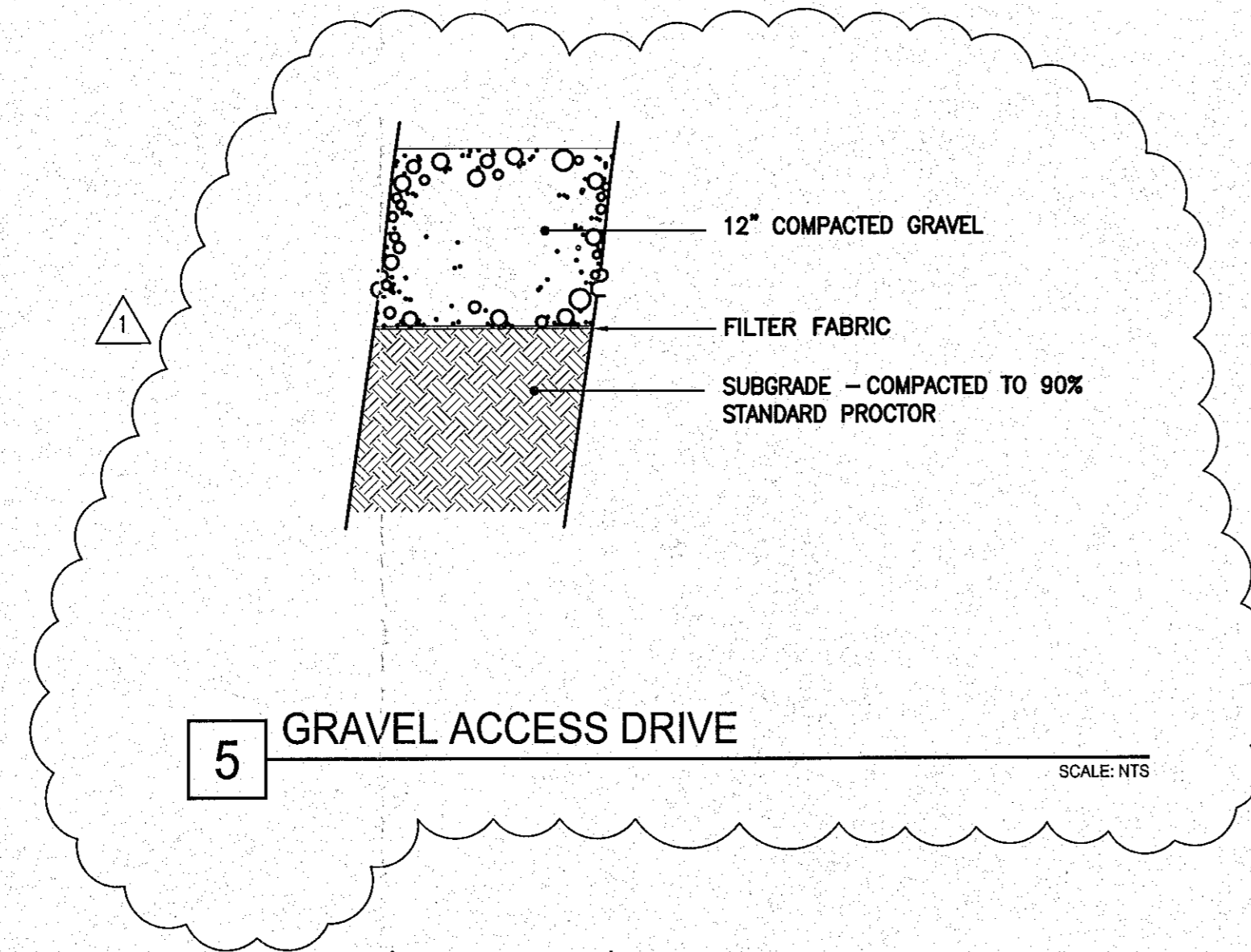
SITE UTILITY PLAN
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 AS NOTED



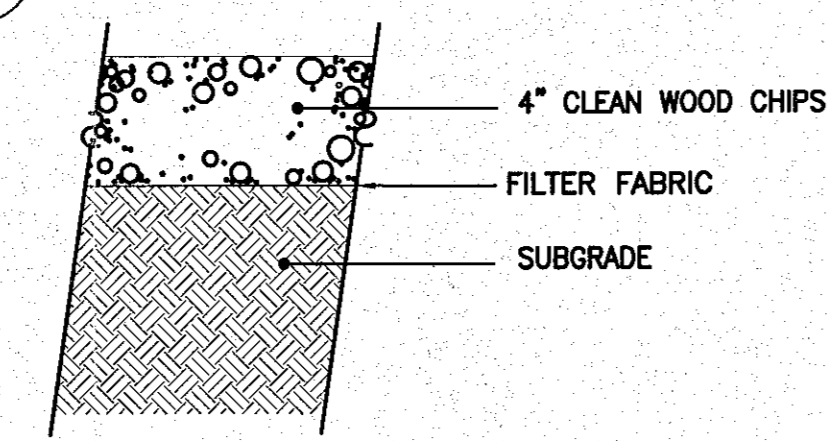
PLANNING BOARD
 TOWN OF BETHLEHEM
 ALBANY COUNTY, NEW YORK
 This Site Plan Approved.
[Signature]
 Title *Chairman*
 Date *March 14, 2012*



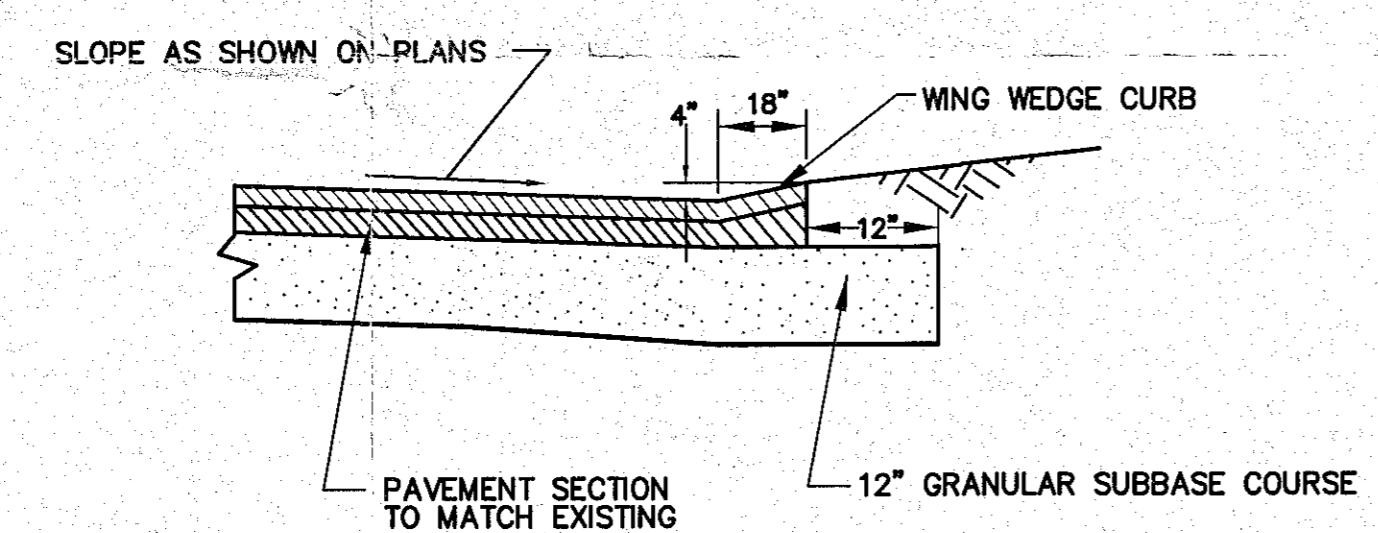
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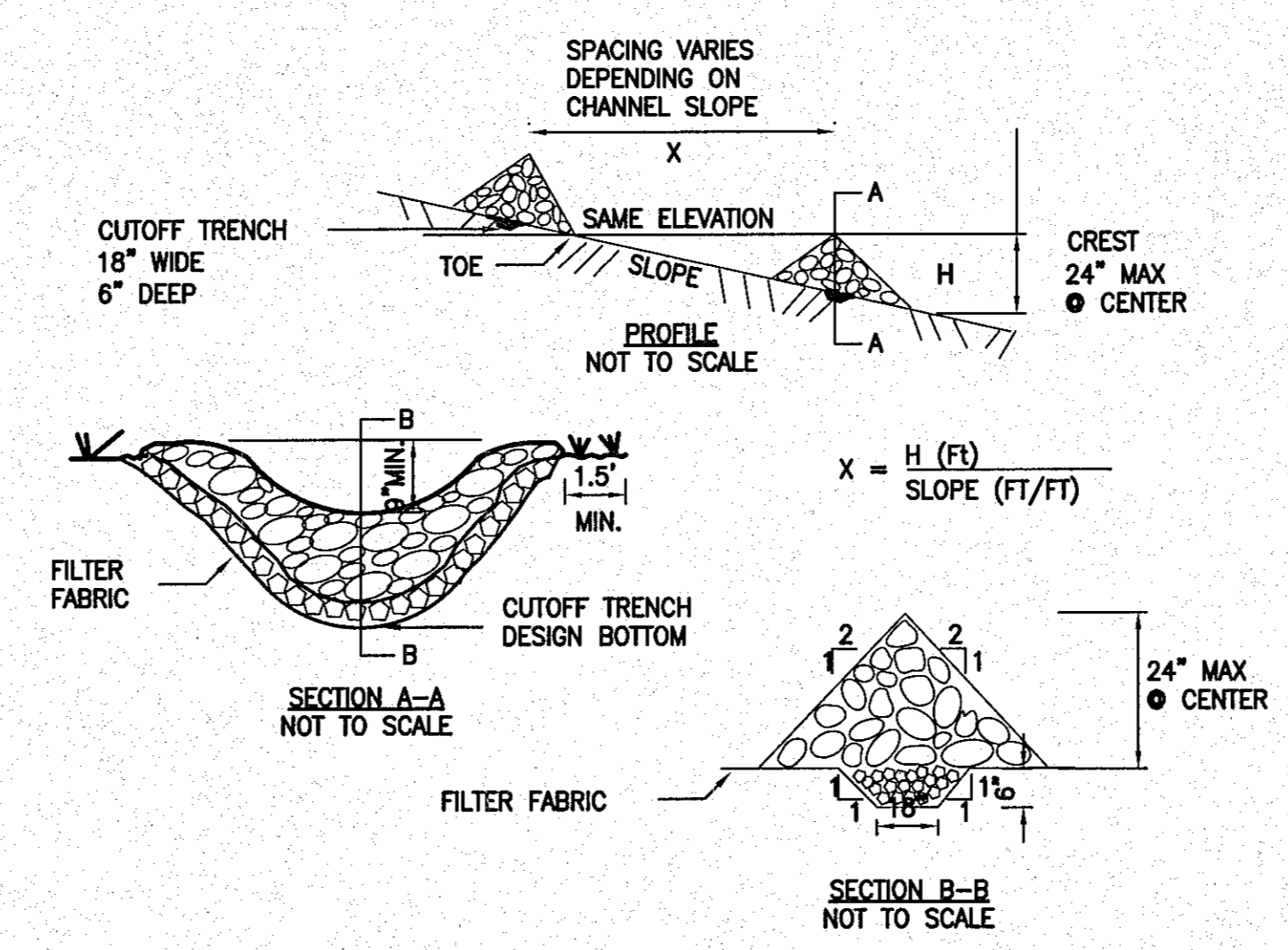
5 GRAVEL ACCESS DRIVE SCALE: NTS



6 WOOD CHIP PATH SCALE: NTS



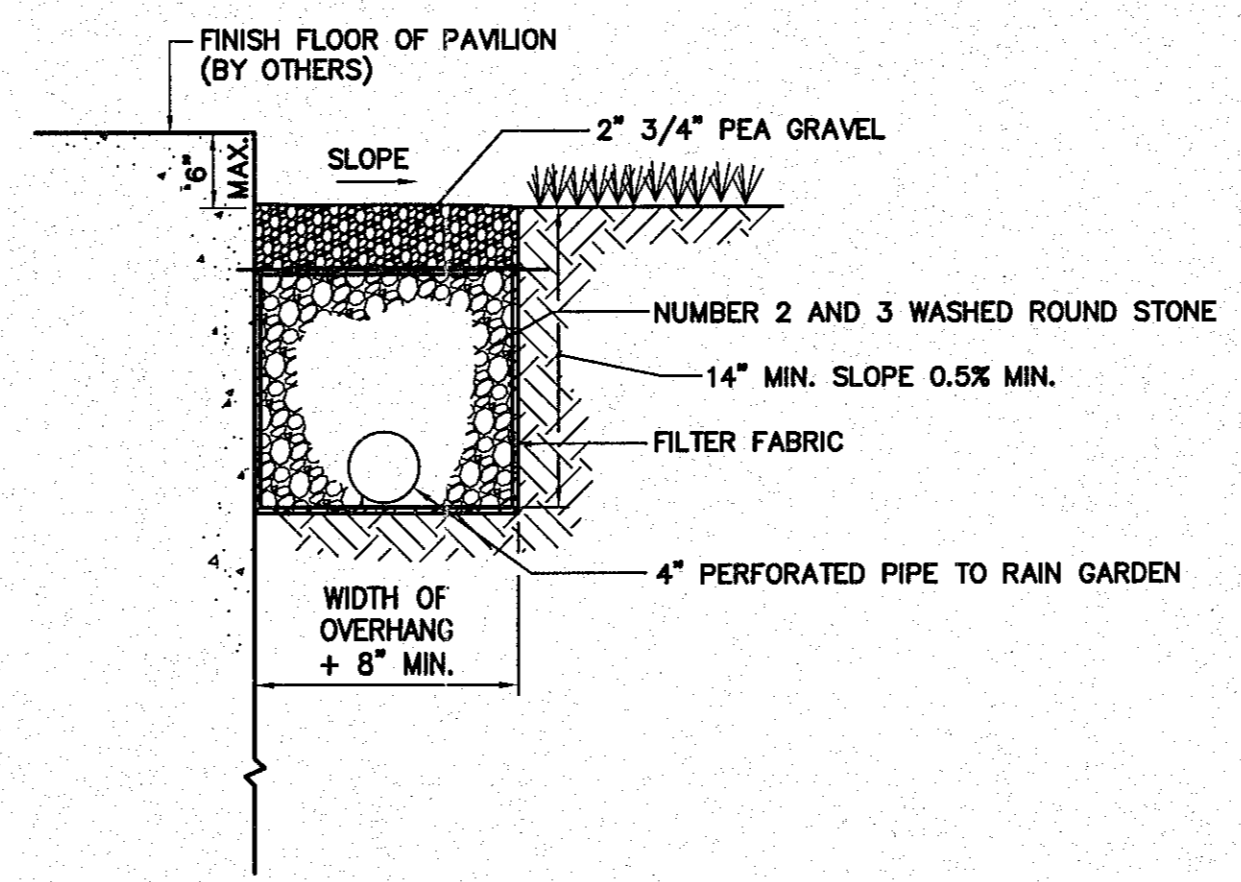
7 WING CURB SCALE: NTS



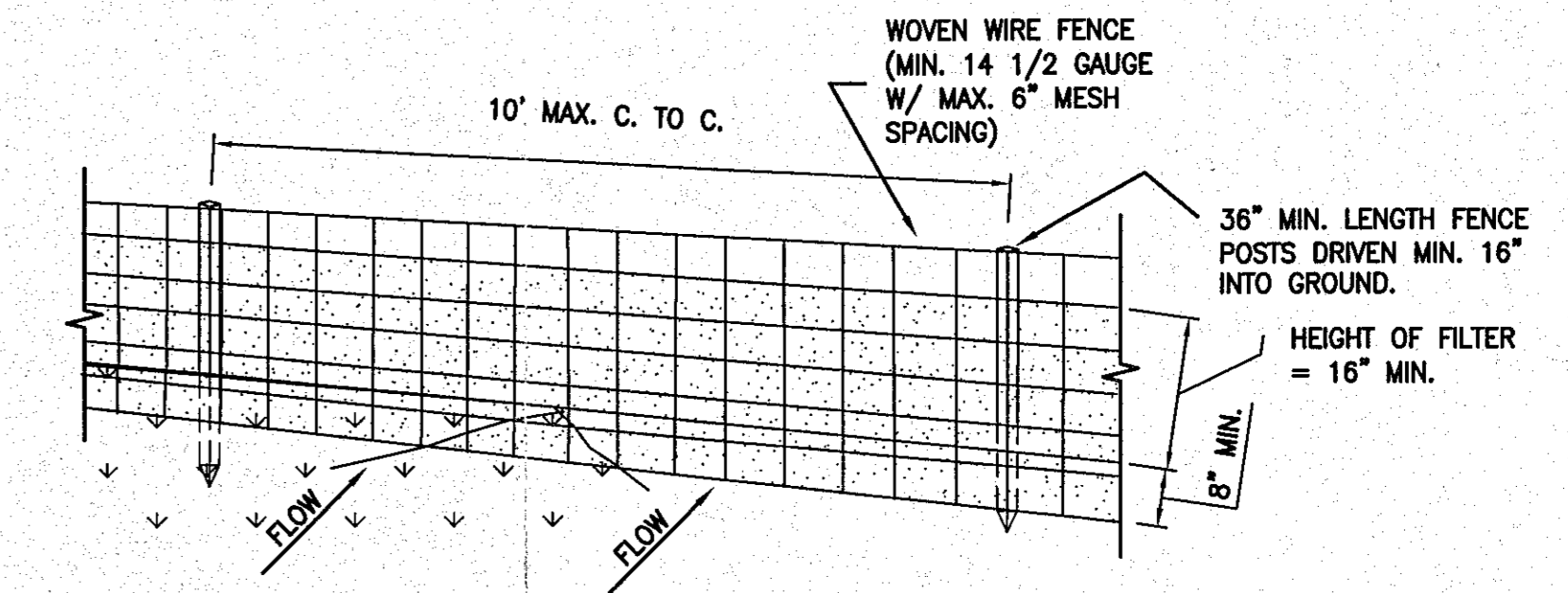
CONSTRUCTION SPECIFICATIONS

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE. MAXIMUM DRAINAGE AREA 2 ACRES.

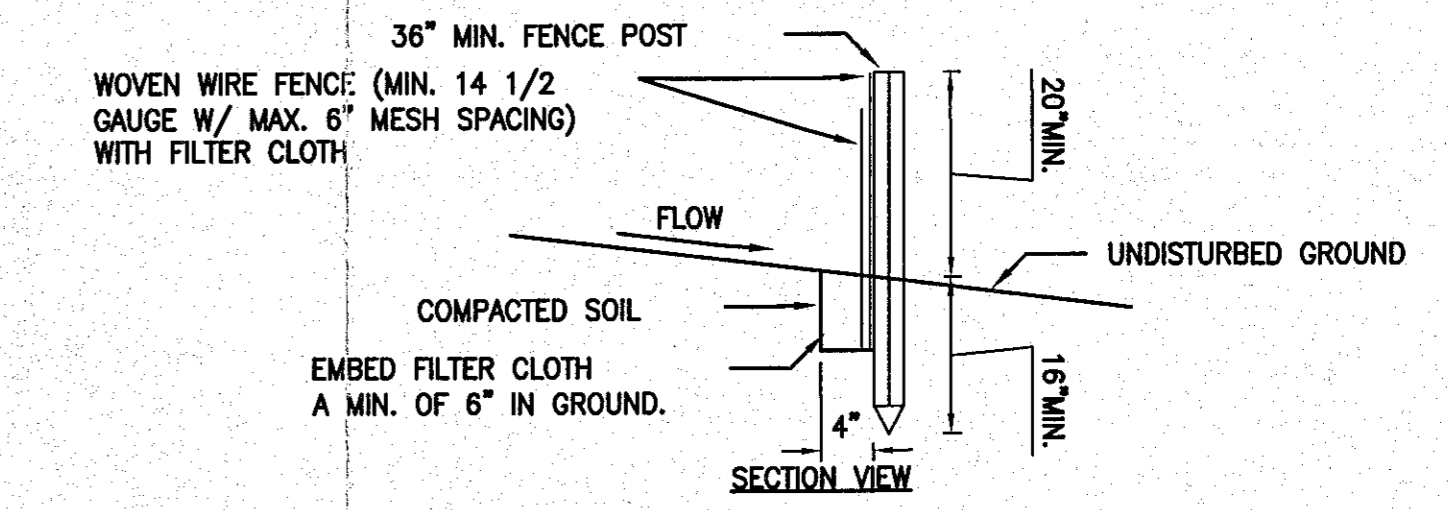
3 CHECK DAM SCALE: NTS



4 STONE DRIP EDGE SCALE: NTS



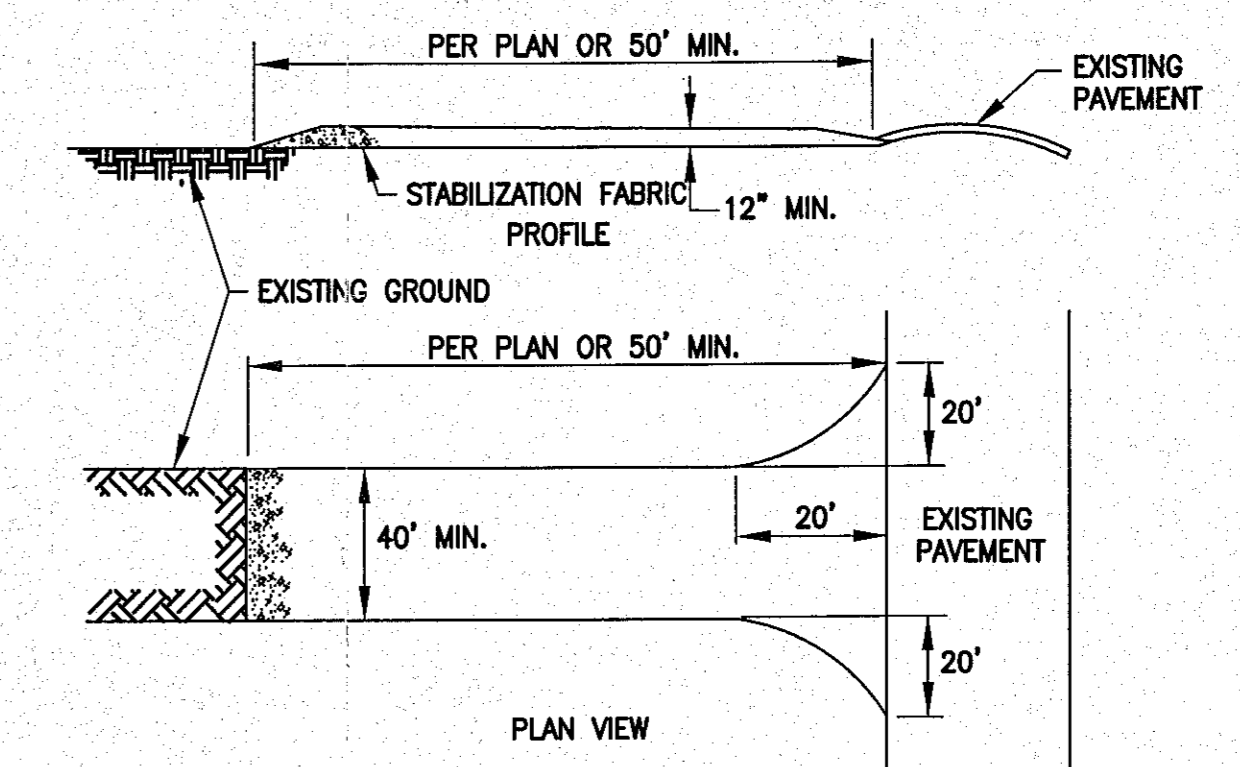
PERSPECTIVE VIEW



CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12 1/2 GAUGE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T14CN, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVROFENCE, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

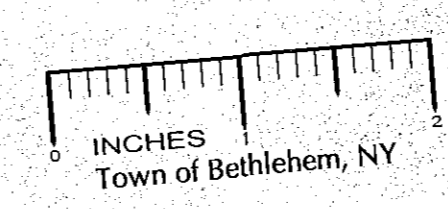
1 SILT FENCE SCALE: NTS



1. STONE SIZE-USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. THICKNESS-NOT LESS THAN 12".
3. WOVEN GEOTEXTILE FABRIC WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
4. MAINTENANCE-THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
5. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

2 STABILIZED CONSTRUCTION ENTRANCE SCALE: NTS

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PLANNING BOARD
 TOWN OF BETHLEHEM
 ALBANY COUNTY, NEW YORK
 This Site Plan Approved.
George J. Smith
 Title: Chairman
 SPA 106 A-4
 Date: March 16, 2012

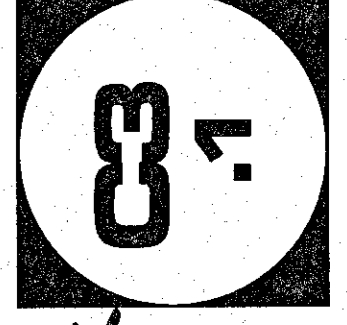
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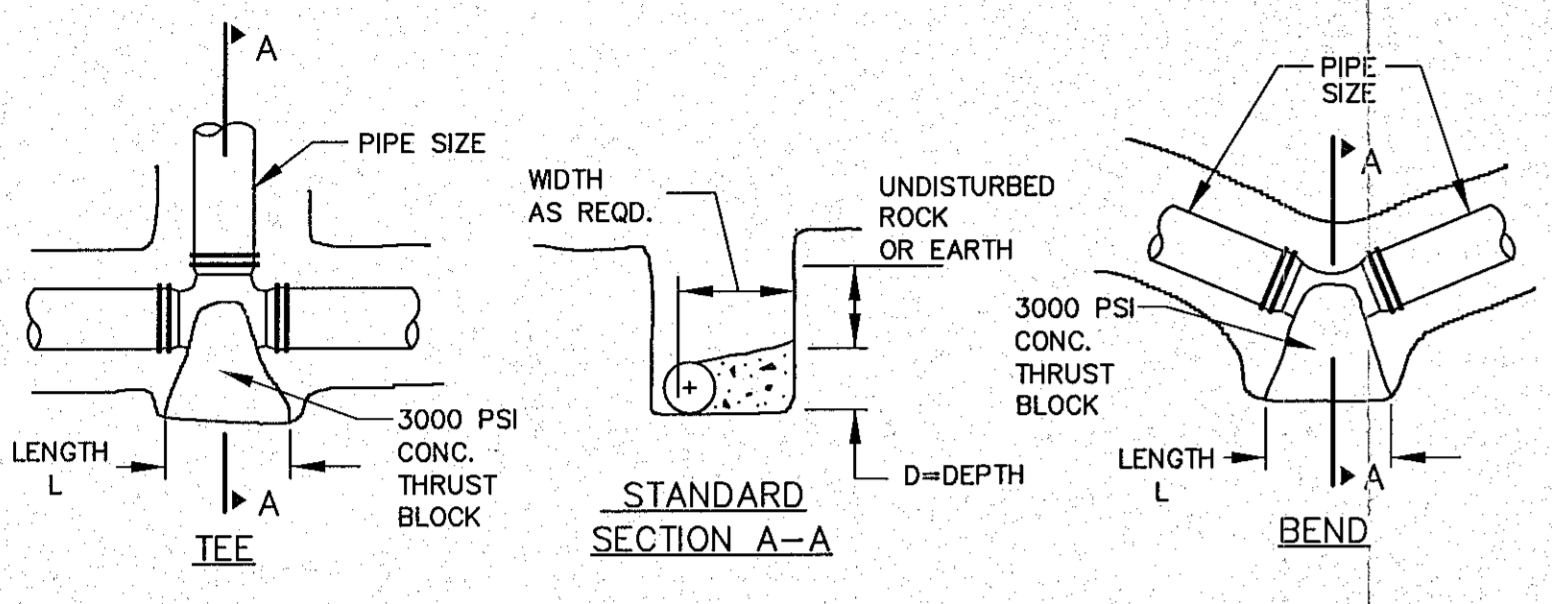
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BETHLEHEM AREA YMCA BRANCH
 PAVILION
 900 DELAWARE AVENUE
 BETHLEHEM, NEW YORK
 AS NOTED
 SCALE:
 SITE DETAILS



SPA 106 A-4

REQUIRED BEARING AREAS & DIMENSIONS FOR CONCRETE THRUST BLOCKS										
PIPE SIZE (IN.)	TEE (See Note 5)		90°(1/4)BEND		45°(1/8)BEND		22-1/2°(1/16)BEND		11-1/4°(1/32)BEND	
	AREA Sq.Ft.	Dimen. D x L	AREA Sq.Ft.	Dimen. D x L	AREA Sq.Ft.	Dimen. D x L	AREA Sq.Ft.	Dimen. D x L	AREA Sq.Ft.	Dimen. D x L
3 & 4	1.4	1.0 x 1.5	2.0	1.0 x 2.0	1.1	1.0 x 1.5	0.6	0.5 x 1.5	0.3	0.5 x 1.0
6	3.2	1.5 x 2.5	4.5	2.0 x 2.5	2.4	1.5 x 2.0	1.2	1.0 x 1.5	0.6	1.5 x 1.5
8	5.7	2.0 x 3.0	8.0	2.0 x 4.0	4.3	2.0 x 2.5	2.2	1.5 x 1.5	1.1	1.0 x 1.5
12	12.7	3.5 x 3.5	18.0	4.0 x 4.5	9.7	2.5 x 4.0	5.0	2.0 x 2.5	2.5	1.5 x 2.0
14	24.6	6.0 x 4.5	24.6	6.0 x 4.5	13.3	3.5 x 4.0	6.8	2.0 x 3.5	3.4	1.5 x 2.5
20	50.0	6.0 x 8.5	50.0	6.0 x 8.5	27.0	5.0 x 5.5	13.8	3.5 x 4.0	6.9	2.5 x 3.5
24	72.0	8.0 x 9.0	72.0	8.0 x 9.0	39.0	5.0 x 8.0	20.0	4.0 x 5.0	10.0	3.0 x 3.0



THRUST BLOCK NOTES

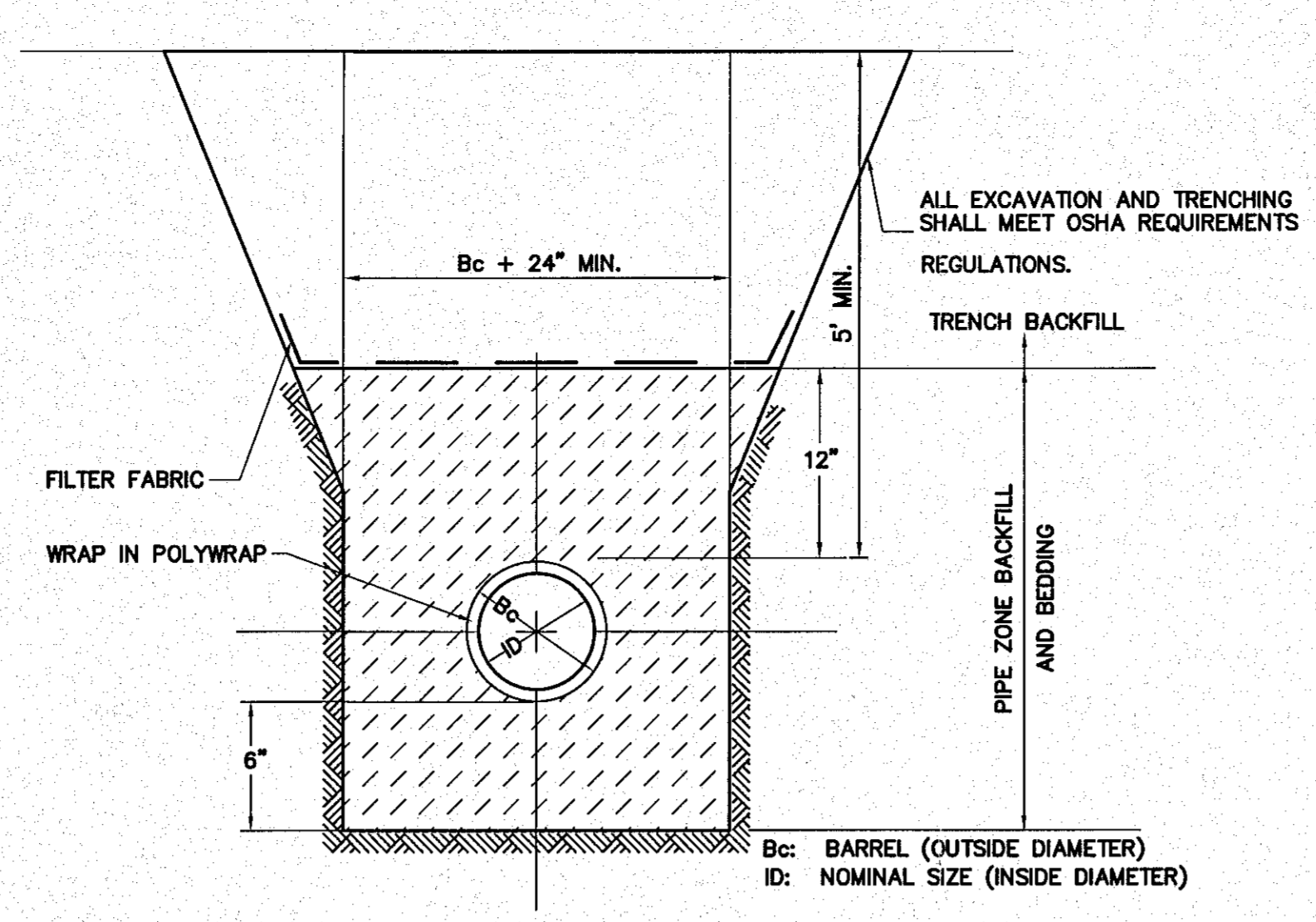
- FOR REQUIRED BEARING AREA DIMENSIONS D & L SEE TABLE. DIMENSIONS OF D & L OTHER THAN THOSE SHOWN IN THE TABLE MAY BE USED PROVIDED THEY YIELD A BEARING AREA EQUAL TO OR LARGER THAN THAT REQUIRED.
- CONCRETE NOT TO OVERLAP ANY JOINT.
- CONCRETE TO BE PLACED SO AS NOT TO INTERFERE WITH REMOVING OR INSTALLING ANY OF THE JOINING HARDWARE.
- APPROXIMATE VOLUME OF CONCRETE THRUST BLOCK:

$$V = \frac{LD(W+ID) - ID^3}{81}$$
 WHERE:
 V = VOLUME IN CUBIC YARDS
 L = LENGTH OF BLOCK IN FEET
 D = DEPTH OF BLOCK IN FEET
 W = WIDTH OF BLOCK IN FEET
 ID = INSIDE DIAMETER OF PIPE IN FEET
- VALUES FOR TEE ALSO APPLY TO END PLUGS, CAPS, AND TAPPING SLEEVES.
- REQUIRED BEARING AREAS ARE DUE TO THRUSTS CAUSED BY 150 PSI WORKING PRESSURE PLUS 50%(75 PSI) SURGE ALLOWANCE RESULTING IN 225 PSI TOTAL INTERNAL PRESSURE. NORMAL PIPE DIAMETER USED.
- REQUIRED BEARING AREAS ARE BASED ON ALLOWABLE SOIL BEARING CAPACITY OF 2000 LBS. PER SQUARE FOOT FOR SAND. DUE TO OTHER SOIL CONDITIONS ENCOUNTERED, BEARING AREAS MAY BE MODIFIED BY THE ENGINEER.
- IN MUCK, PEAT, OR RECENTLY PLACED FILL ALL THRUST SHALL BE RESISTED BY PILES OR TIE RODS TO SOLID FOUNDATIONS, OR BY REMOVAL OF SUCH UNSTABLE MATERIAL AND REPLACEMENT WITH BALLAST OF SUFFICIENT STABILITY TO RESIST THE THRUSTS, ALL AS REQUIRED BY THE ENGINEER.

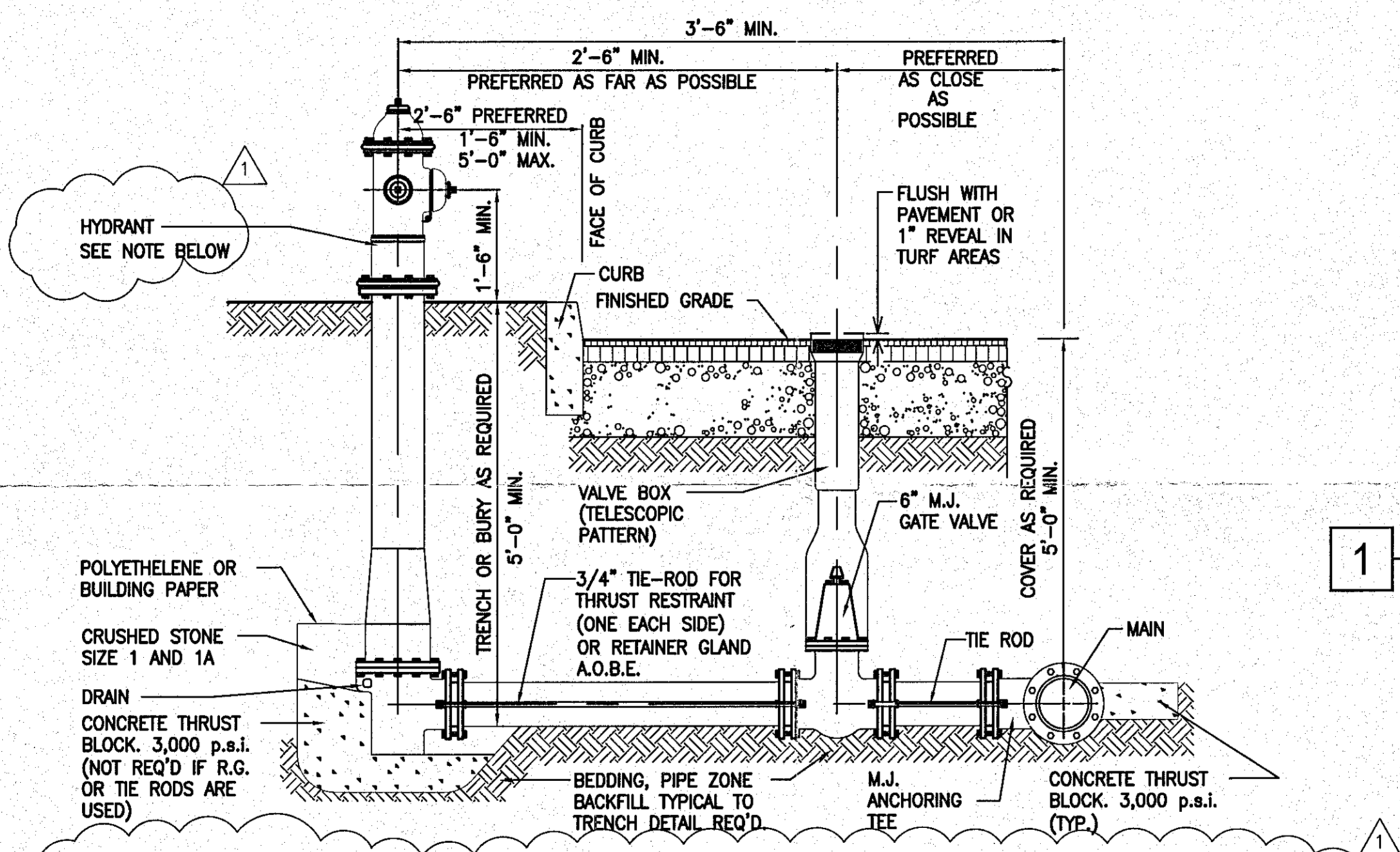
6 THRUST BLOCK

SCALE: NTS

3 TYPICAL WATER MAIN TRENCH



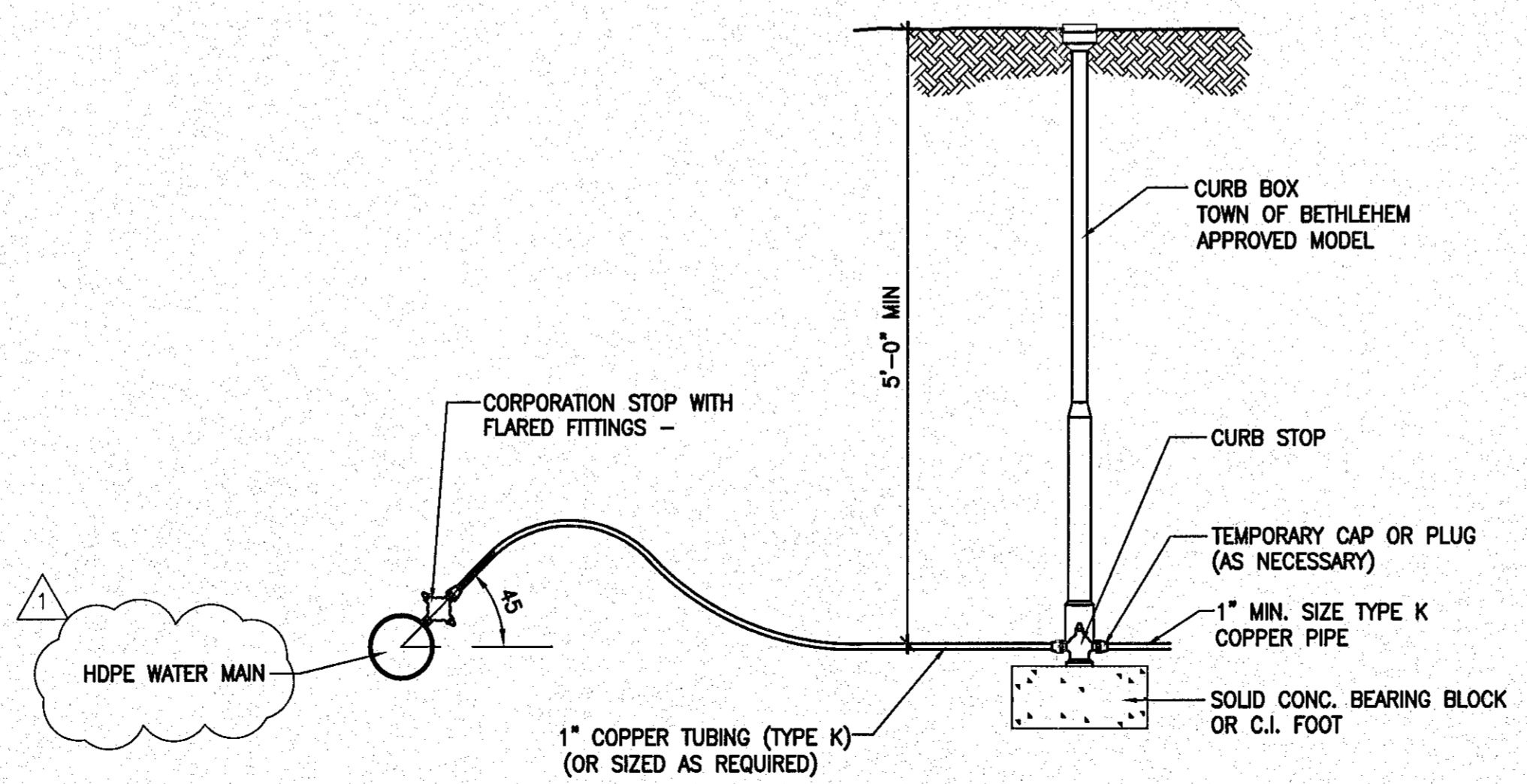
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NOTE: HYDRANT SHALL BE TOWN APPROVED; CLOW/EDDY MEDALLION, MODEL F-2545 5'-6" MIN. WITH GROUND LINE BREAK FLANGE AND DRY BARREL, AND WET-TOP ASBESTOS PACKING OR KENNEDY GUARDIAN K81D 5'-6" MIN. WITH GROUND LINE BREAK FLANGE AND DRY BARREL.

4 WATER VALVE AND HYDRANT DETAIL

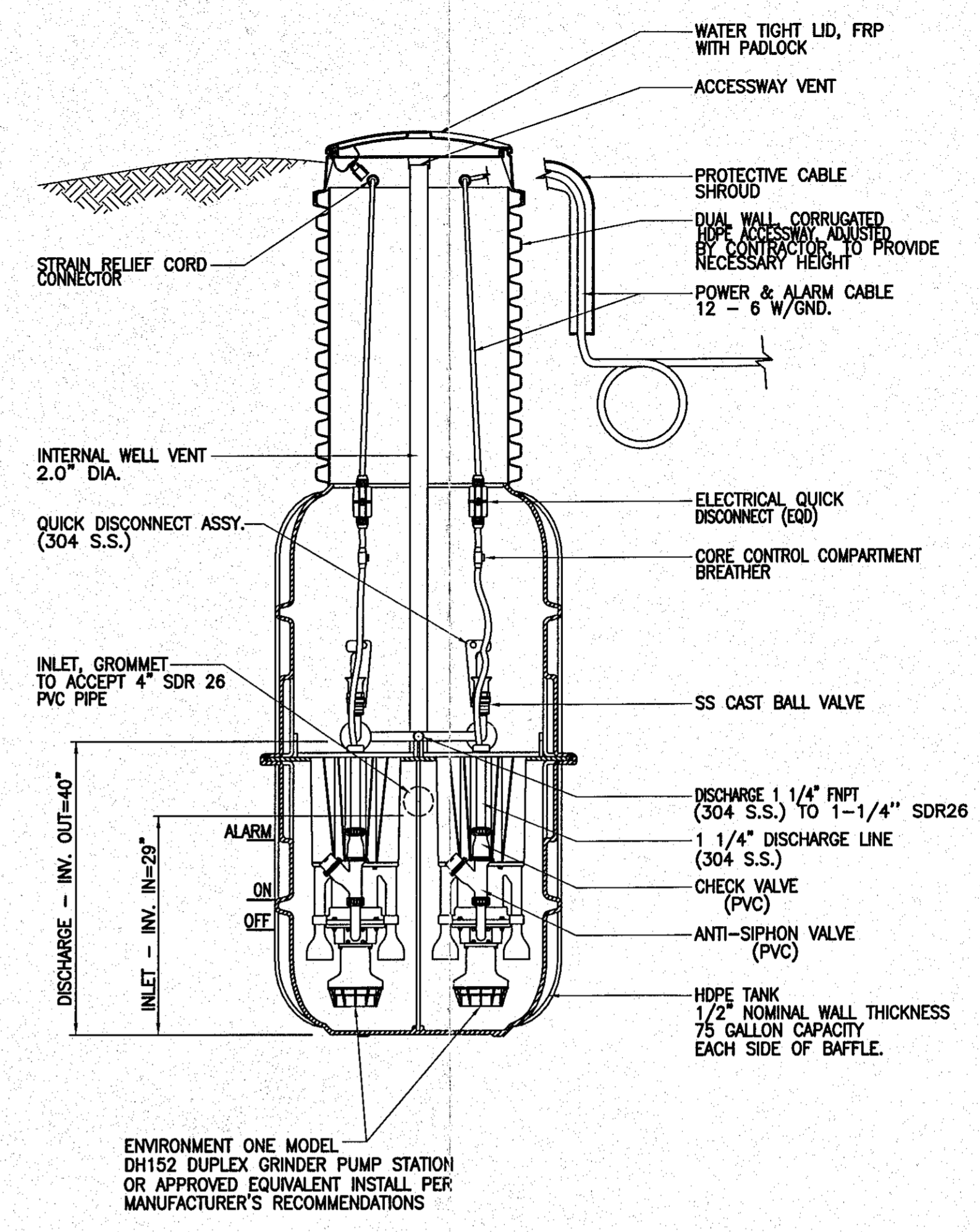
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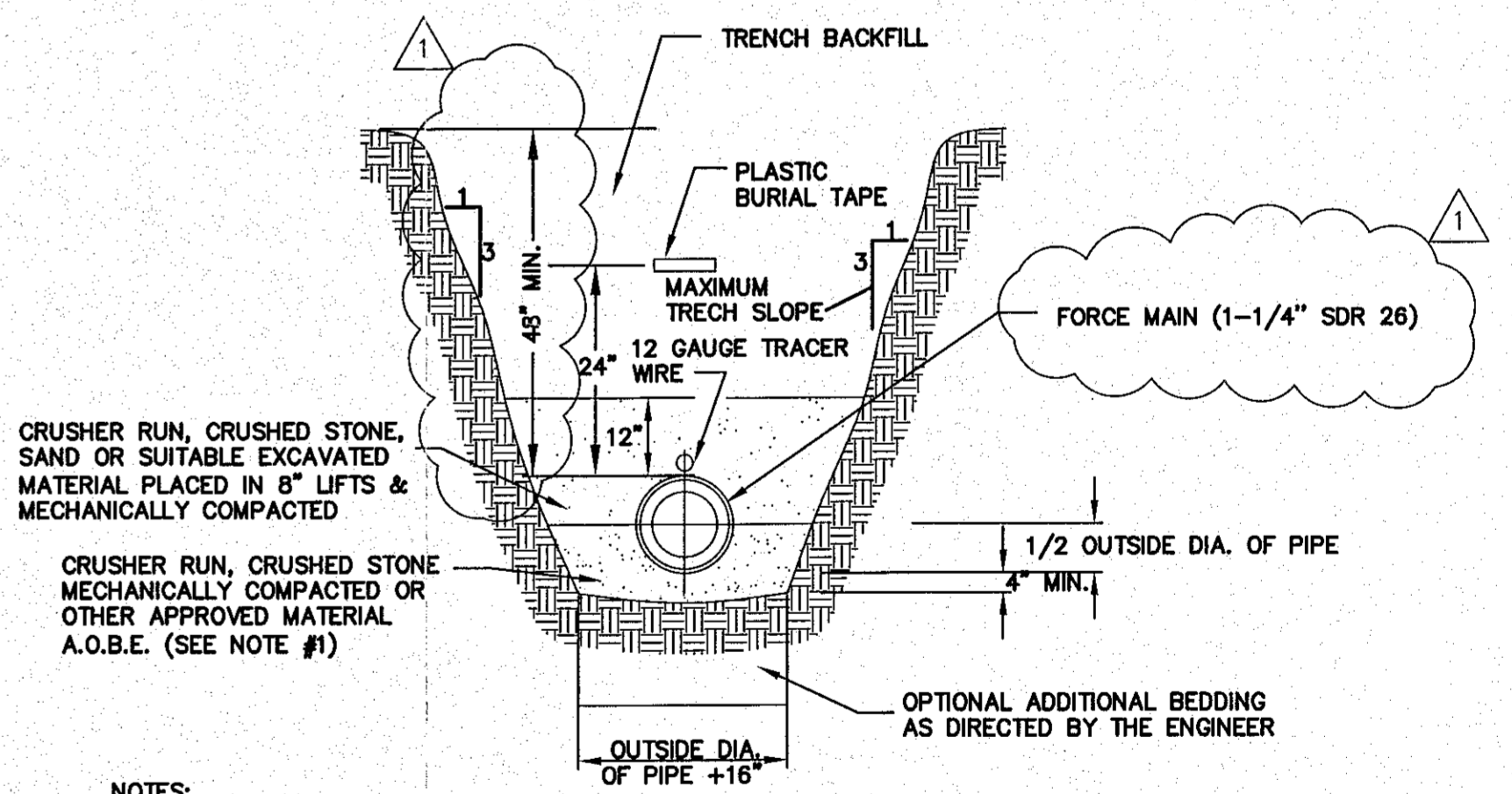
5 WATER SERVICE

SCALE: NTS

1 DUPLEX PUMP STATION



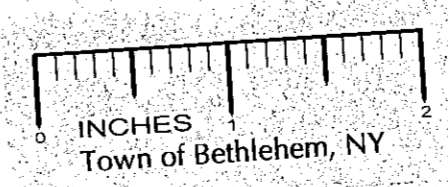
SCALE: NTS



- CRUSHER RUN, CRUSHED STONE, SAND OR SUITABLE EXCAVATED MATERIAL PLACED IN 8" LIFTS & MECHANICALLY COMPACTED
- CRUSHER RUN, CRUSHED STONE MECHANICALLY COMPACTED OR OTHER APPROVED MATERIAL A.O.B.E. (SEE NOTE #1)
- NOTES:
- NO DEBRIS, FROZEN MATERIAL, LARGE CLODS, STONES OR ORGANIC MATERIAL SHALL BE PLACED IN TRENCH BACKFILL. TRENCH BACKFILL SHALL CONSIST OF SUITABLE EXCAVATED MATERIAL OR OTHER APPROVED MATERIAL.
 - ALTERNATIVE MATERIAL TO CRUSHED STONE BEDDING IS CLEAN COARSE SAND PASSING 1/4" SIEVE. EFFECTIVE GRAIN SIZE SHALL BE BETWEEN 0.3 TO 0.6 MM AND THE UNIFORMITY COEFFICIENT SHALL BE 3.5 OR LESS.
 - TRACER WIRE AND BURIAL TAPE MARKED "CAUTION BURIED SEWER BELOW" OVER SEWER MAIN ONLY.
 - TERMINATE THE WIRE ON THE STEP IN OPERATION/MAINTENANCE STRUCTURE.

2 FORCE MAIN TRENCH DETAIL

SCALE: NTS

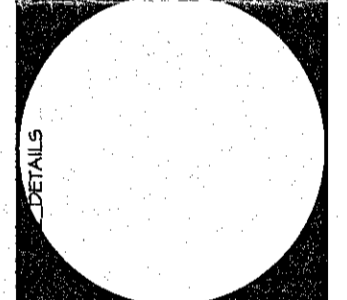


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 Title: *Chairman*
 Date: *March 16, 2012*

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PROJECT NO. 09-020 BETHLEHEM, NY
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