

DRAWN: A30/20T, 1/4/18 RW - 2; V-PROJECTS/642-10-1312 - 1; ENGINEER: GSD/10/13/12 - 1; PROJECT: THESE PLANS AND DESIGN ARE COPYRIGHT PROTECTED AND MAY NOT BE USED IN WHOLE OR IN PART WITHOUT THE WRITTEN CONSENT OF PINNACLE ENGINEERING GROUP, LLC. REVIEWED: DAT 4/26/2017, 4/4/18 RW - 2; V-PROJECTS/642-10-1312 - 1; PROJECT: THESE PLANS AND DESIGN ARE COPYRIGHT PROTECTED AND MAY NOT BE USED IN WHOLE OR IN PART WITHOUT THE WRITTEN CONSENT OF PINNACLE ENGINEERING GROUP, LLC.

GENERAL NOTES	
1.	THE STANDARD SPECIFICATIONS LISTED ON THE COVER SHEET, THESE CONSTRUCTION PLANS, THE SPECIAL PROVISIONS, GENERAL CONDITIONS AND SUBSEQUENT DETAILS ARE ALL TO BE CONSIDERED AS PART OF THE CONTRACT DOCUMENTS. INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THIS WORK MAY NOT BE SPECIFICALLY NOTED BUT ARE TO BE CONSIDERED A PART OF THE CONTRACT.
2.	NO CONSTRUCTION PLANS SHALL BE USED FOR CONSTRUCTION UNLESS SPECIFICALLY MARKED "FOR CONSTRUCTION" PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE INDIVIDUAL SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS OF THE JOB. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT TO THE ENGINEER. BEFORE DOING ANY WORK, OTHERWISE THE INDIVIDUAL SUBCONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF OMISSION OR DISCREPANCY, FOLLOWING SUCH INSTRUCTION, THE INDIVIDUAL SUBCONTRACTOR SHALL SECURE WRITTEN INSTRUCTIONS FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSION OR DISCREPANCY. THE INDIVIDUAL SUBCONTRACTOR SHALL NOT CONSTITUTE A CLAIM FOR ADDITIONAL COMPENSATION. NO MATERIAL SHALL BE STOCKPILED IN FRONT YARDS, OVERLAND DRAINAGE SWALES (FLOOD ROUTING AREAS), PROPOSED UTILITY LOCATIONS, UTILITY EASEMENTS, OR IN THE RIGHT-OF-WAY.
3.	ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE GUARANTEED AGAINST ALL DEFECTS IN MATERIALS AND WORKMANSHIP OF WHATEVER NATURE BY THE INDIVIDUAL SUBCONTRACTOR AND HIS SURETY FOR A PERIOD OF 24 MONTHS FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK BY THE VILLAGE, OTHER APPLICABLE GOVERNMENTAL AGENCIES, AND THE OWNER.
4.	BEFORE ACCEPTANCE BY THE OWNER AND FINAL PAYMENT, ALL WORK SHALL BE INSPECTED AND APPROVED BY THE OWNER OR HIS REPRESENTATIVE. FINAL PAYMENT WILL BE MADE AFTER ALL OF THE INDIVIDUAL SUBCONTRACTOR'S WORK HAS BEEN APPROVED AND ACCEPTED, AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
5.	UPON AWARD OF THE CONTRACT AND WHEN REQUIRED BY THE OWNER, THE INDIVIDUAL SUBCONTRACTOR SHALL FURNISH A LABOR, MATERIAL AND PERFORMANCE BOND IN THE PENAL SUM OF 100 PERCENT OF THE CONTRACT GUARANTEEING COMPLETION OF THE WORK. THE UNDERWRITER SHALL BE APPROVED BY THE OWNER AND THE VILLAGE.
6.	THE INDIVIDUAL SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS FOR CONSTRUCTION OF THE PROJECTS AND CROSSING OF STREETS OR HIGHWAYS INCLUDING THE USE AND ACCESS OF EXISTING STREETS. THE INDIVIDUAL SUBCONTRACTOR SHALL MAKE ARRANGEMENTS FOR THE PROPER BRACING, SHORING AND OTHER REQUIRED PROTECTION OF ALL ROADWAYS BEFORE CONSTRUCTION BEGINS. THE INDIVIDUAL SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE STREETS OR ROADWAYS AND ASSOCIATED STRUCTURES AND SHALL MAKE REPAIRS AS NECESSARY TO THE SATISFACTION OF THE ENGINEER.
7.	EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS. THE INDIVIDUAL SUBCONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT IN LOCATION WITH THE CONSTRUCTION OPERATIONS, THE INDIVIDUAL SUBCONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
8.	THE INDIVIDUAL SUBCONTRACTOR SHALL REVIEW AND DETERMINE ALL IMPROVEMENTS AND SHALL VERIFY ALL QUANTITIES AS PROVIDED BY THE ENGINEER OR OWNER FOR BIDDING PURPOSES. THE INDIVIDUAL SUBCONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER. THE CONTRACT PRICE SUBMITTED BY THE INDIVIDUAL SUBCONTRACTOR SHALL BE CONSIDERED AS A LUMP SUM FOR THE COMPLETE PROJECT UNDER ITS PLAN REVISION AND/OR WRITTEN CHANGE TO THE SCOPE OF WORK.
9.	WHENEVER THE PERFORMANCE OF WORK IS INDICATED ON THE PLANS, AND NO ITEM IS INCLUDED IN THE CONTRACT FOR PAYMENT, THE WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
10.	WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS OR GUTTERS, OR IN A MINIMUM OF 18 INCHES FROM THE NORMAL FLOW LINE OF WATER IS OBSTRUCTED, THIS LOOSE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY BY THE RESPONSIBLE PARTY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
11.	THE INDIVIDUAL SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS, TRAFFIC CONTROL DEVICES AND WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC DURING ALL PHASES OF CONSTRUCTION, BARRICADES AND WARNING SIGNS SHALL BE PROVIDED IN ACCORDANCE WITH THE I.D.O.T. STANDARD SPECIFICATIONS. SIGNS SHALL BE MAINTAINED FROM DREAR VIEW AT ALL LOCATIONS WHERE CONSTRUCTION OPERATIONS WARRANT, OR AS DESIGNATED BY THE ENGINEER OR VILLAGE. ALL TRAFFIC CONTROL WORK SHALL BE DONE IN ACCORDANCE WITH THE I.D.O.T.'S "MANUAL ON CONSTRUCTION TRAFFIC CONTROL DEVICES".
12.	ALL PERMANENT TIE PAVEMENTS OR OTHER PERMANENT IMPROVEMENTS WHICH ABUT THE PROPOSED IMPROVEMENT AND MUST BE REMOVED, SHALL BE SAWSAW FULL DEPTH PRIOR TO REMOVAL. ALL ITEMS SO REMOVED SHALL BE REPLACED WITH SIMILAR CONSTRUCTION MATERIALS TO THEIR ORIGINAL CONDITION OR BETTER. PAYMENT FOR SAWSAW SHALL BE INCLUDED IN THE CONTRACT PRICE FOR EACH ITEM AND REPLACEMENT WILL BE PAID UNDER THE RESPECTIVE ITEMS IN THE CONTRACT, UNLESS OTHERWISE INDICATED.
13.	REMOVED PAVEMENT, SIDEWALK, CURB AND GUTTER, ETC. SHALL BE DISPOSSED OF BY THE INDIVIDUAL SUBCONTRACTOR AT HIS OWN EXPENSE AT LOCATIONS APPROVED BY THE OWNER. IF ONSITE DISPOSAL IS NOT FEASIBLE, THE INDIVIDUAL SUBCONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN OFFSITE DUMP SITE AT HIS OWN EXPENSE.
14.	WHERE OVERHANGING BRANCHES INTERFERE WITH OPERATIONS OF CONSTRUCTION, SAID BRANCHES SHALL BE TRIMMED AND SEALED IN ACCORDANCE WITH ARTICLE 23.09 OF THE I.D.O.T. STANDARD SPECIFICATIONS, AND THE COST OF SAME SHALL BE INCIDENTAL TO THE CONTRACT. TREES SHALL BE REMOVED ONLY AFTER RECEIVING APPROVAL OF THE OWNER. THE OWNER SHALL DETERMINE WHICH TREES ARE TO BE REMOVED.
15.	ALL EXISTING TRAFFIC SIGNS, STREET SIGNS, ETC., WHICH INTERFERE WITH CONSTRUCTION OPERATIONS AND ARE NOT NOTICED FOR REMOVAL OR DISPOSAL, SHALL BE REMOVED AND RESET BY THE INDIVIDUAL SUBCONTRACTOR IN ACCORDANCE WITH I.D.O.T. STANDARD SPECIFICATIONS AT LOCATIONS AS DESIGNATED BY THE ENGINEER. THIS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED. DAMAGE TO THESE ITEMS SHALL BE REPAIRED BY THE INDIVIDUAL SUBCONTRACTOR AT HIS OWN EXPENSE. ALL SIGNS NOT REQUIRED TO BE RESET SHALL BE DELIVERED TO THE VILLAGE AS APPROPRIATE. ALL MAIL BOXES THAT INTERFERE WITH CONSTRUCTION SHALL BE SIMILARLY RELOCATED AT NO ADDITIONAL COST.
16.	NOTIFY THE ENGINEER OF ALL FIELD TILE ENCOUNTERED DURING CONSTRUCTION OPERATIONS. FIELD TILE SHALL BE CONNECTED TO THE PROPOSED STORM SEWER. A RECORD OF THE LOCATION OF ALL FIELD TILE OR ON-SITE DRAIN PIPE ENCOUNTERED SHALL BE KEPT BY THE CONTRACTOR AND TURNED OVER TO THE ENGINEER UPON COMPLETION OF THE PROJECT. THE COST OF THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
17.	DURING CONSTRUCTION OPERATIONS THE INDIVIDUAL SUBCONTRACTOR SHALL INSURE POSITIVE DRAINAGE AT THE CONCLUSION OF EACH DAY. DRAINAGE MAY BE ACHIEVED BY DITCHING, PUMPING OR ANY OTHER ACCEPTABLE METHOD. THE INDIVIDUAL SUBCONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDITIONAL COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF.
18.	IT SHALL BE THE RESPONSIBILITY OF THE INDIVIDUAL SUBCONTRACTOR TO REMOVE FROM THE SITE ANY AND ALL MATERIALS AND DEBRIS WHICH RESULT FROM HIS CONSTRUCTION OPERATIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.
19.	THE INDIVIDUAL SUBCONTRACTOR SHALL COMPLY WITH AND OBSERVE THE RULES AND REGULATIONS OF O.S.H.A. AND APPROPRIATE AUTHORITIES REGARDING SAFETY PROVISIONS.
20.	THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS OR FOR ANY SAFETY PRECAUTIONS USED BY THE INDIVIDUAL SUBCONTRACTOR. THE INDIVIDUAL SUBCONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF HIS WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS.
21.	ALL INDIVIDUAL SUBCONTRACTORS AND THEIR SUBCONTRACTORS OR ANY TIER SHALL INDEMNIFY THE OWNER, ENGINEER, AND ARCHITECT FROM ALL LIABILITY RESULTING FROM ANY NEGLIGENCE ACT OR OMISSION WITH THEIR CONSTRUCTION, INSTALLATION, AND TESTING OF WORK ON THIS PROJECT AND SHALL NAME THEM AS ADDITIONAL INSURED ON THEIR COMMERCIAL GENERAL LIABILITY POLICIES FOR CLAIMS ARISING OUT OF THE WORK ON THIS PROJECT. A PROPER CERTIFICATE OF INSURANCE SHALL BE ISSUED PRIOR TO THE START OF CONSTRUCTION.
22.	ELECTRIC, TELEPHONE, NATURAL GAS, AND OTHER UTILITY COMPANIES HAVE UNDERGROUND AND/OR OVERHEAD SERVICE FACILITIES IN THE VICINITY OF THE PROPOSED WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE UTILITY COMPANIES LOCATE THEIR FACILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND SHALL ALSO BE RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF THESE FACILITIES. THE CONTRACTOR SHALL CALL 811 FOR UTILITY LOCATIONS.
23.	THE INDIVIDUAL SUBCONTRACTOR TO HAVE A COMPETENT SUPERINTENDENT ON THE PROJECT SITE AT ALL TIMES IRRESPECTIVE OF THE AMOUNT OF WORK SUBJECT THE SUPERINTENDENT SHALL BE CAPABLE OF READING AND UNDERSTANDING THE PLANS AND SPECIFICATIONS, SHALL HAVE FULL AUTHORITY TO EXECUTE ORDERS TO EXPEDITE THE PROJECT, AND SHALL BE RESPONSIBLE FOR SCHEDULING AND HAVE CONTROL OF ALL WORK AS AGENT OF THE INDIVIDUAL SUBCONTRACTOR. FAILURE TO COMPLY WITH THIS PROVISION WILL RESULT IN A SUSPENSION OF WORK.
24.	THE INDIVIDUAL SUBCONTRACTOR SHALL KEEP A SET OF "APPROVED" CONSTRUCTION PLANS ON THE JOB SITE, AND SHALL MAINTAIN (AS INDICATED HEREIN AND ELSEWHERE WITHIN THESE CONSTRUCTION NOTES, SPECIFICATIONS, AND ANY LEGIBLE RECORD OR SET) ALL COPIES OF AND FIELD TILE ENCOUNTERED, ANY MODIFICATIONS TO ALIGNMENT AND/OR TO PLANS AND SPECIFICATIONS OF PROPOSED IMPROVEMENTS, ETC. UPON COMPLETION OF THE INDIVIDUAL SUBCONTRACTOR'S WORK AND INFORMATION TO THE ENGINEER. THE INDIVIDUAL SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WRITTEN APPROVAL FROM THE ENGINEER. FINAL CONTRACT PAYMENT SHALL NOT BE DUE UNTIL THIS INFORMATION IS RECEIVED BY THE ENGINEER.

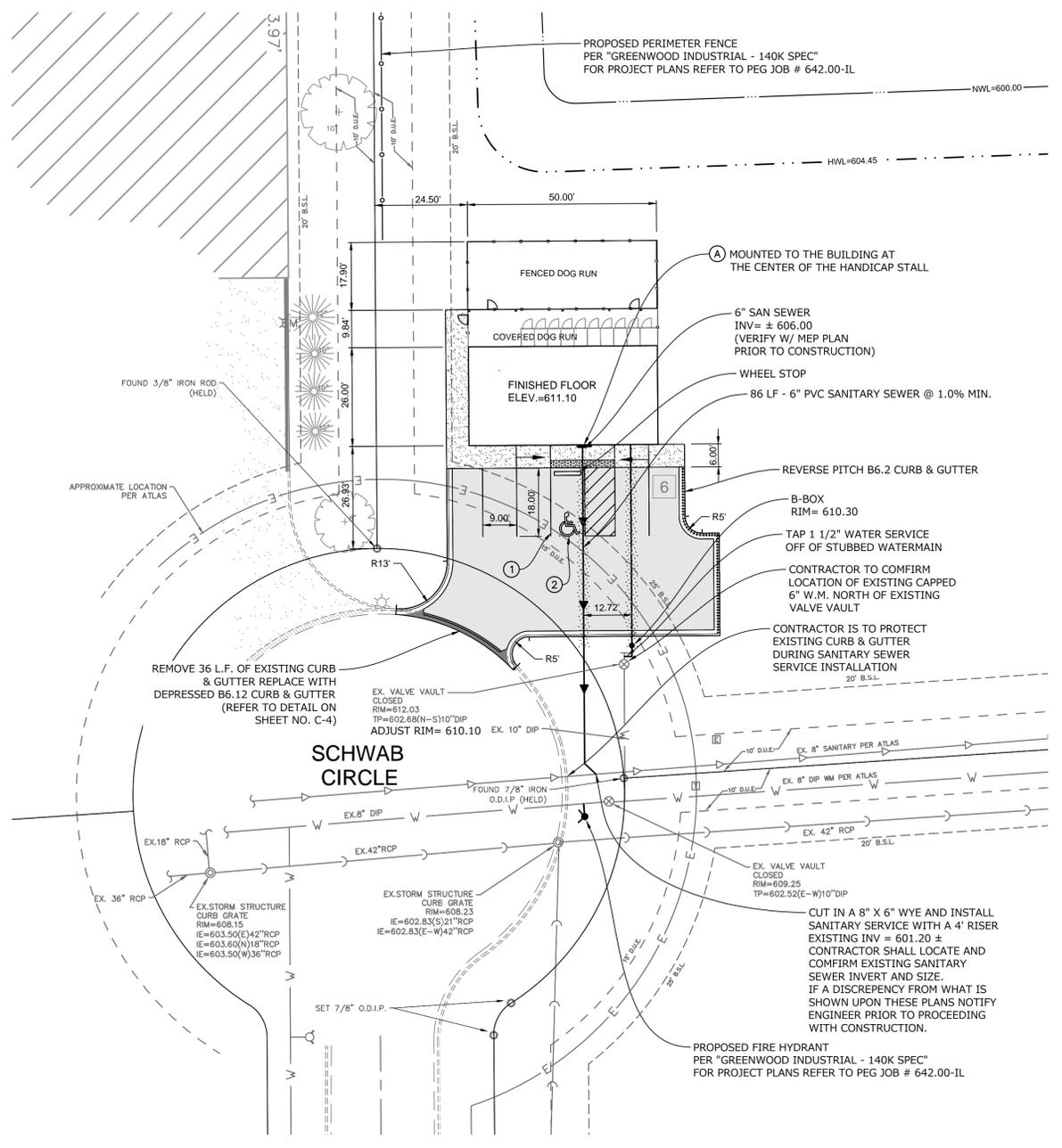
EARTHWORK	
1.	WORK UNDER THIS SECTION SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING: A. CLEARING AND REMOVAL OF ALL UNDESIRABLE TREES AND OTHER VEGETATIVE GROWTH WITHIN THE CONSTRUCTION AREA. TREE REMOVAL SHALL BE AS DESIGNATED BY THE OWNER AND SHALL BE KEPT TO A MINIMUM, WHERE FEASIBLE, AND WHEN PERMITTED BY OWNER, TREES AND BRUSH REMOVED MAY BE BURIED ONSITE IN FUTURE VARD AND OPEN SPACE AREAS. IF AN ADEQUATE AND DESIRABLE SITE IS NOT AVAILABLE FOR ONSITE BURIAL, THE TREES AND BRUSH SHALL BE DISPOSED OFF SITE. B. STRIPPING OF TOPSOIL FROM ALL STREET, DRIVEWAY, PARKING AREA, RIGHT-OF-WAY, SIDEWALKS AND OTHER DESIGNATED AREAS. C. STOCKPIILING OF TOPSOIL AT LOCATIONS AS DIRECTED BY THE OWNER. TOPSOIL STOCKPILED FOR FUTURE USE SHALL BE RELATIVELY FREE FROM LARGE ROOTS, STICKS, WEEDS, BRUSH, LIMBS LARGER THAN ONE INCH DIAMETER, OR OTHER UNDESIRABLE MATERIALS INCLUDING EXOTIC MATERIALS. MATERIALS NOT CONDUCTIVE TO PLANT GROWTH, TOPSOIL SHALL BE STOCKPIILED IN SEQUENCE TO ELIMINATE ANY REHANDLING OR DOUBLE MOVEMENTS BY THE CONTRACTOR. MATERIALS TO BE STOCKPIILED SHALL BE BACKFILLED WITH SELECT GRANULAR IN ACCORDANCE WITH THE CONSTRUCTION STANDARDS. D. REMOVING UNSUITABLE MATERIALS AS SPECIFIED FROM ROADWAY, DRIVEWAY/PARKING, BUILDING PAD, AND OTHER DESIGNATED AREAS. E. DEMOLITION AND REMOVAL OF EXISTING STRUCTURES INCLUDING OFFSITE DISPOSAL OF SAME. AT A DUMP SITE AS SELECTED BY THE CONTRACTOR, ONSITE DISPOSAL MAY BE ALLOWED IF APPROVED BY THE OWNER. F. CLAY CUT AND CLAY FILL WITH COMPACTION WITHIN ROADWAY, DRIVEWAY/PARKING, BUILDING PAD AND OTHER DESIGNATED AREAS. G. EXCAVATION AND GRADING OF THE OPEN SPACE AND/OR YARD AREAS PER PLAN INCLUDING DETENTION BASIN GRADING, CONSTRUCTION OF BERMS, ETC. H. STOCKPIILING AND COMPACTION OF CLAY TO DESIGNATED AREAS AS REQUIRED BY THE STANDARDS AND DETAILS ON THE CONSTRUCTION PLANS. THE CONTRACTOR WILL NOTE THAT THE ELEVATIONS SHOWN ON THE CONSTRUCTION PLANS ARE FINISHED GRADE. ELEVATIONS AND THAT PAVEMENT AND OTHER TOPSURFACE REPLACEMENT THICKNESS MUST BE SUBTRACTED TO DETERMINE SUBGRADE ELEVATIONS. I. PLACEMENT AND COMPACTION OF NON-STRUCTURAL FILLS. J. IF REQUIRED, REMOVAL AND DISPOSAL OF ANY EXCESS OR UNSUITABLE MATERIAL UPON COMPLETION OF MASS GRADING. K. MOVEMENT AND COMPACTION OF SPOIL MATERIAL FROM THE CONSTRUCTION OF UNDERGROUND CONSTRUCTION OPERATIONS. L. BACKFILLING OF CURBS AND/OR PAVEMENT AND SIDEWALK AFTER INSTALLATION OF SAME IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. M. SHORING AND TRENCHING OF EXISTING STRUCTURES, AND CROSS SECTIONS SHOWN IN THESE PLANS; AND TOPSOIL PLACEMENT TO DESIGN FINISHED GRADE ELEVATIONS AT LOCATIONS DESIGNATED IN THE CONTRACT DOCUMENTS. N. EROSION AND SEDIMENT CONTROL MEASURES WITH THE SOIL EROSION CONTROL SPECIFICATIONS INCLUDED WITHIN THE CONTRACT DOCUMENTS.
2.	THE QUANTITIES GIVEN IN THE ENGINEER'S SUMMARY FOR EARTHWORK ARE INTENDED AS A GUIDE FOR THE CONTRACTOR IN DETERMINING THE SCOPE OF THE COMPLETED PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALL MATERIAL QUANTITIES AND APPRISE HIMSELF OF THE EXACT CONDITIONS OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSIDERING AS LUMP SUM FOR THE COMPLETE PROJECT. NO CLAIMS FOR EXTRA WORK WILL BE RECOGNIZED UNLESS ORDERED IN WRITING BY THE OWNER.
3.	PRIOR TO ONSET OF MASS GRADING OPERATIONS, THE EARTHWORK CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SOIL EROSION CONTROL SPECIFICATIONS, THE INITIAL EROSION CONTROL PROCEDURES AND THE PLACEMENT OF FILTER FENCING, ETC. TO PROTECT ADJACENT PROPERTY SHALL OCCUR BEFORE MASS GRADING BEGINS, AND IN ACCORDANCE WITH THE SOIL EROSION CONTROL CONSTRUCTION SCHEDULE.
4.	PRIOR TO COMMENCEMENT OF GRADING ACTIVITIES, A TREE PROTECTION FENCE SHALL BE ERECTED AROUND ANY TREE DESIGNATED ON THE PLANS TO BE PRESERVED. SAID FENCE SHALL BE PLACED IN A CIRCLE CENTERED AROUND THE TREE, THE DIAMETER OF WHICH SHALL BE SUCH THAT THE ENTIRE DRIP ZONE OF EXTENDING BRANCHES SHALL BE WITHIN THE FENCE LIMITS. THE BEDDING SHALL EXTEND TO 1 FOOT ABOVE THE TOP OF THE PIPE. BEDDING MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-33 FOR SOUNDNESS AND ASTM C-67 FOR GRADATION. COST FOR BEDDING SHALL BE MERGED WITH THE UNIT PRICE BID FOR THE SEWER, WATER MAIN, ETC.
5.	THE GRADING OPERATIONS ARE TO BE CLOSELY SUPERVISED AND INSPECTED, PARTICULARLY DURING THE REMOVAL OF UNSUITABLE MATERIAL AND THE CONSTRUCTION OF EMBANKMENTS OR BUILDING PADS, BY THE SOILS ENGINEER OR HIS REPRESENTATIVE. ALL TESTING, INSPECTION AND RECORDS OF SOIL QUALITY, UNSUITABLE REMOVAL, REPLACEMENT, MODIFICATION AND OTHER SOILS RELATED OPERATIONS SHALL BE ENTIRELY THE RESPONSIBILITY OF THE SOILS ENGINEER.
6.	A QUALIFIED SOILS ENGINEER SHALL REGULARLY INSPECT THE EXCAVATION OF ANY OPEN WATER AREAS TO INSURE THAT THEY WILL BE CAPABLE OF MAINTAINING DESIGN NORMAL WATER LEVELS. GRAVEL OR SAND SEAMS OR OTHER CONDITIONS WHICH MAY BE ENCOUNTERED, AND WHICH MIGHT INTERFERE WITH THE EXISTING AREAS, SHALL BE REMOVED AS DIRECTED BY THE SOILS ENGINEER (FOR EXAMPLE, LINING, CLAY BLANKET, BENTONITE, ETC.).
7.	THE GRADING AND CONSTRUCTION OF THE SITE IMPROVEMENTS SHALL BE GRADED TO ALLOW POSITIVE DRAINAGE. ALL AREAS ADJACENT TO THESE IMPROVEMENTS SHALL BE GRADED TO ALLOW POSITIVE DRAINAGE.
8.	THE PROPOSED GRADING ELEVATIONS SHOWN ON THE PLANS ARE FINISHED GRADE. TOPSOIL OF THE THICKNESS SHOWN IN THE STANDARDS AND DETAILS ON THE CONSTRUCTION PLANS IS TO BE PLACED BEFORE FINISHED GRADE ELEVATIONS ARE ACHIEVED.
9.	THE SELECTED STRUCTURAL FILL MATERIAL SHALL BE PLACED IN LEVEL UNIFORM LAYERS SO THAT THE COMPACTED THICKNESS IS APPROXIMATELY 6 INCHES. THE CONTRACTOR SHALL DEMONSTRATE THE ABILITY TO COMPACT GREATER THICKNESS, THAN A GREATER THICKNESS MAY BE ALLOWED WITH APPROVAL FROM SOILS ENGINEER. EACH LAYER SHALL BE THOROUGHLY MIXED DURING SPREADING TO INSURE UNIFORMITY.
10.	EMBANKMENT MATERIAL WITHIN ROADWAY, DRIVEWAY, PARKING AREAS, AND OTHER STRUCTURAL AREAS SHALL BE TRIMMED AND SEALED IN ACCORDANCE WITH ARTICLE 23.09 OF THE I.D.O.T. STANDARD SPECIFICATIONS AND THE COST OF SAME SHALL BE INCIDENTAL TO THE CONTRACT. DENSITY IN ACCORDANCE WITH ASTM SPECIFICATION D-1557 (MODIFIED PROCTOR METHOD), OR TO SUCH OTHER DENSITY AS MAY BE DETERMINED APPROPRIATE BY THE SOILS ENGINEER.
11.	EMBANKMENT MATERIAL (RANDOM FILL) WITHIN NON-STRUCTURAL FILL AREAS SHALL BE COMPACTED TO A MINIMUM OF EIGHTY FIVE PERCENT (85%) OF MAXIMUM DENSITY WITH ASTM SPECIFICATION D-1557 (MODIFIED PROCTOR METHOD), OR TO SUCH OTHER DENSITY AS MAY BE DETERMINED APPROPRIATE BY THE SOILS ENGINEER.
12.	THE SURFACE VEGETATION, TOPSOIL, AND ANY OBVIOUSLY SOFT UNDERLYING SOIL SHOULD BE STRIPPED FROM ALL AREAS TO RECEIVE CLAY FILL. IF THE UNDERLYING SUBGRADE SOILS RUP DEEPER THAN ONE INCH UNDER THE CONSTRUCTION EQUIPMENT OR IF THE MOISTURE CONTENT EXCEEDS THAT NEEDED FOR PROPER COMPACTION, THE SOIL SHALL BE SCARIFIED, DRIED AND RECOMPACTED TO THE REQUIRED SPECIFICATIONS (SEE SECTIONS 205 AND 301 OF THE I.D.O.T. SPECIFICATIONS).
13.	ALL PAVEMENT SUBGRADE SHALL HAVE A MINIMUM IBR OF 3.0 AS DETERMINED BY THE SOILS ENGINEER. THE PROPOSED PAVEMENT DESIGN HAS BEEN BASED ON A MINIMUM IBR OF 3.0; THEREFORE, IF AREAS OF PAVEMENT SUBGRADE ARE ENCOUNTERED WHICH DO NOT PROVIDE A MINIMUM IBR OF 3.0, SUBGRADE REPLACEMENT OR PAVEMENT DESIGN REVISIONS SHALL BE PROVIDED WHICH ARE ADEQUATE TO OBTAIN EQUIVALENT PAVEMENT STRENGTH, AS DETERMINED BY THE SOILS ENGINEER AND THE ENGINEER.
14.	PRIOR TO UTILITY CONSTRUCTION, PROPOSED PAVEMENT AREAS, BUILDING PADS, DRIVEWAYS AND SIDEWALKS, AND YARD/OPEN SPACE AREAS SHALL BE ROUGH EXCAVATED OR FILLED TO PLUS OR MINUS ONE FOOT OF DESIGN SUBGRADE ELEVATIONS BY THE CONTRACTOR.
15.	COMPLETED GRADING FOR PROPOSED BUILDING PADS, AS WELL AS PROPOSED SUBGRADE AREAS FOR PAVEMENT, DRIVEWAYS AND SIDEWALKS, AND YARD/OPEN SPACE AREAS SHALL BE WITHIN A TOLERANCE OF PLUS OR MINUS 0.1 FOOT OF DESIGN SUBGRADE ELEVATIONS.
16.	THE SUBGRADE FOR PROPOSED STREET AND PAVEMENT AREAS SHALL BE PROOF-ROLLED BY THE CONTRACTOR AND ANY UNSTABLE AREAS ENCOUNTERED SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE SOILS ENGINEER.
17.	UPON COMPLETION OF THE SURFACE IMPROVEMENTS, AND EXCEPT WHERE OTHERWISE NOTED, THE EXCAVATION CONTRACTOR SHALL RESEED A MINIMUM OF 6 INCHES OF TOPSOIL ON ALL DESIGNATED OPEN SPACE, PARKWAY, LANDSCAPE, AND OTHER NON-STRUCTURAL AREAS PER PLAN. SAID DESIGNATED AREAS TO BE RESEED BY THE EXCAVATION CONTRACTOR SHALL BE AS INDICATED WITHIN THE CONTRACT DOCUMENTS. TOPSOIL SHALL BE RESEED ON THE REMAINING AREAS BY THE LANDSCAPE CONTRACTOR.
18.	RIPRAP MATERIAL TO BE PROVIDED IN CONJUNCTION WITH THE EARTHWORK IMPROVEMENTS SHALL CONFORM TO SECTION 281.1 OF THE I.D.O.T. SPECIFICATIONS.
19.	SOIL BORING RECORDS, AVAILABLE AT THE OFFICE OF THE ENGINEER AND THE OWNER, ARE SOLELY FOR THE INFORMATION AND GUIDANCE OF THE CONTRACTORS. THE OWNER AND ENGINEER MAKE NO REPRESENTATION OR WARRANTY REGARDING THE INFORMATION CONTAINED IN THE BORING LOGS. THE CONTRACTOR SHALL MAKE HIS OWN INVESTIGATIONS AND SHALL PLAN HIS WORK ACCORDINGLY. ARRANGEMENTS TO ENTER THE PROPERTY DURING THE BIDDING PHASE MAY BE MADE UPON REQUEST OF THE OWNER. THERE WILL BE NO ADDITIONAL PAYMENT FOR WORKS INCURRED BY THE CONTRACTOR RESULTING FROM ADVERSE SOIL OR GROUND WATER CONDITIONS.
20.	IF SHOWN ON THE PLANS, OPEN AREAS TO BE SEEDD SHALL BE SEEDD IN ACCORDANCE WITH THE SOIL EROSION CONTROL SPECIFICATIONS AND FINAL LANDSCAPE PLAN.
21.	IT SHALL BE THE RESPONSIBILITY OF THE EXCAVATION CONTRACTOR TO REMOVE FROM THE SITE ANY AND ALL MATERIALS AND DEBRIS WHICH RESULT FROM HIS CONSTRUCTION OPERATIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.
22.	CONTRACTOR SHALL COORDINATE WITH OWNER TO ENSURE THAT SOILS ENGINEER SHALL BE ON SITE DURING ALL EARTHWORK OPERATIONS, PAVING, AND CONCRETE PREPARATION AND POUR.

UNDERGROUND UTILITIES	
1.	WORK UNDER THIS SECTION SHALL INCLUDE TRENCHING, AUGERING AND INSTALLATION OF PIPE, CASTINGS, STRUCTURES, BACKFILLING OF TRENCHES AND COMPACTION, AND TESTING AS SHOWN ON THE CONSTRUCTION PLANS. FITTINGS AND ACCESSORIES NECESSARY TO COMPLETE THE WORK MAY NOT BE SPECIFIED BUT SHALL BE CONSIDERED AS INCIDENTAL TO THE COST OF THE CONTRACT.
2.	ALL SEWER AND WATER MAIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR SEWER AND WATER MAIN CONSTRUCTION" ILLINOIS (2014 EDITION), AND THE STANDARD SPECIFICATIONS AND CONSTRUCTION DETAILS / ORDINANCES OF THE VILLAGE.
3.	ROUGH GRADING TO WITHIN ONE FOOT OF FINISHED SUBGRADE SHALL BE COMPLETED BY THE EARTHWORK CONTRACTOR PRIOR TO COMMENCEMENT OF UNDERGROUND UTILITY INSTALLATION.
4.	ALL UTILITY TRENCHES BENEATH PROPOSED OR EXISTING UTILITIES, PROPOSED OR EXISTING PAVEMENT, EXISTING DRIVEWAYS AND SIDEWALKS, PROPOSED DRIVEWAYS AND SIDEWALKS WHERE DESIGNATED BY THE OWNER AND AT A 1:1 SLOPE ON EITHER SIDE OF SAME, AND/OR WHEREVER ELSE SHOWN ON THE CONSTRUCTION PLAN SHALL BE BACKFILLED WITH SELECT GRANULAR IN ACCORDANCE WITH THE CONSTRUCTION STANDARDS.
5.	"BAND-SEAL" OR SIMILAR FLEXIBLE TIE COUPLINGS SHALL BE USED WHEN CONNECTING SEWER PIPES OF DISSIMILAR MATERIALS. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED: A. CIRCULAR SAW-CUT OF SEWER MAIN BY EXISTING TOOLS ("SHEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUB-WYE SADDLE OR HUB-TEE SADDLE. B. REMOVE AN ENTIRE SECTION OF PIPE (BREAKING INTO THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH-SECT AREAS. C. WITH A PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING "BAND-SEAL" OR SIMILAR COUPLINGS TO HOLD IT.
6.	ALL FLOOR DRAINS AND FLOOR DRAIN SUMP PUMPS SHALL DISCHARGE INTO THE SANITARY SEWER. ALL FLOOR FOOTING DRAINS AND SUBSURFACE STORMWATER SHALL DISCHARGE INTO THE STORM SEWER OR INTO THE GROUND BUT NOT INTO THE SANITARY SEWER.
7.	SANITARY SEWERS SHALL BE CONSTRUCTED OF THE FOLLOWING MATERIALS UNLESS SPECIFIED OTHERWISE ON THE PLANS: A. POLYVINYL CHLORIDE PLASTIC GRAVITY SEWER PIPE (PVC) CONFORMING TO ASTM DESIGNATION D-3034 FOR SANITARY SEWERS OF 15 INCH DIAMETER OR LESS, AND CONFORM TO ASTM DESIGNATION F-679 FOR PIPE OF 18 INCH TO 24 INCH DIAMETER, WITH AN SDR OF 26, WITH ELASTOMERIC GASKET JOINTS CONFORMING TO ASTM DESIGNATION D-3212. THE GASKET SHALL CONFORM WITH ASTM SPECIFICATION D-3212. B. WATER MAIN QUALITY C-900 PRESSURE PIPE IN ACCORDANCE WITH AWWA C900 (DR 18) FOR SIZES 4 INCH TO 12 INCH DIAMETER OR AWWA C905 (DR 18) FOR SIZES 14 INCH TO 48 INCH DIAMETER. PVC PIPE JOINTS SHALL BE FLEXIBLE ELASTOMERIC SEALS PER ASTM D-3139 AND F-477.
8.	ALL SANITARY SEWER MANHOLES SHALL HAVE ECCENTRIC CONES. CONE OPENINGS SHALL BE CENTERED PARALLEL TO THE MAINLINE FLOW. ALL STRUCTURE SECTIONS AND ADJUSTING RINGS SHALL BE SECURELY SEALED TO EACH OTHER OR TO THE CONE SECTION OR TOP BARREL SECTION OF THE STRUCTURE. THE INDIVIDUAL SUBCONTRACTOR SHALL PREPARE A RECORD OF THE MANHOLE AND (RAM-NEK, OR APPROVED EQUAL). THIS MASTIC SHALL BE APPLIED IN SUCH A MANNER THAT NO SURFACE WATER OR GROUND WATER INFLOW CAN ENTER THE MANHOLE THROUGH GAPS BETWEEN BARREL SECTIONS OR BETWEEN ADJUSTING RINGS. SANITARY SEWER MANHOLES SHALL BE 4 FOOT DIAMETER PRECAST STRUCTURES, WITH APPROPRIATE FRAME AND LIDS (SEE CONSTRUCTION STANDARDS SHEET). ALL SANITARY SEWER MANHOLES SHALL INCORPORATE THE USE OF EXTERNAL CHIMNEY SEALS (SEE CONSTRUCTION STANDARDS).
9.	ALL SANITARY SEWERS, STORM SEWERS, AND SEWER SERVICES IN SEPARATE SEWER AREAS SHALL BE INSTALLED ON AN INCLINE. RIGID BEDDING SHALL BE 18 INCHES (I.D.O.T. GRADING SECTION 23.11), WITH A MINIMUM THICKNESS OF ONE FOURTH OF THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN 4 INCHES NOR MORE THAN 8 INCHES. BEDDING SHALL EXTEND TO THE SPRING LINE OF THE PIPE IN ALL CASES (UNLESS INDICATED OTHERWISE). THE EXISTING GROUND SURFACE SHALL BE MAINTAINED AS MUCH AS POSSIBLE. BEDDING SHALL EXTEND TO 1 FOOT ABOVE THE TOP OF THE PIPE. BEDDING MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-33 FOR SOUNDNESS AND ASTM C-67 FOR GRADATION. COST FOR BEDDING SHALL BE MERGED WITH THE UNIT PRICE BID FOR THE SEWER, WATER MAIN, ETC.
10.	ALL SANITARY SEWER CONNECTIONS TO MAINLINE SEWER SHALL BE MADE WITH PRECAST WYES OR TEE MANUFACTURED SPECIFICALLY FOR THAT PURPOSE. SANITARY SEWER SERVICE MATERIAL TO BE SAME AS MAINLINE SEWER UNLESS SPECIFICALLY INDICATED OTHERWISE.
11.	SANITARY SERVICES SHALL BE LAID TO A MINIMUM GRADE OF 1.0 PERCENT. THE END OF EACH SERVICE SHALL BE SEALED WITH A MANUFACTURER'S WATERTIGHT JOINT. SANITARY SERVICE STUBS SHALL BE MARKED IN ACCORDANCE WITH THESE CONSTRUCTION NOTES.
12.	UNLESS OTHERWISE INDICATED STORM SEWER SHALL BE HOPE ADS M12 HP FOR SIZES 12"-30". PIPE SHALL HAVE A SMOOTH INTERIOR AND ANNULAR EXTERIOR CORRUGATIONS AND MEET OR EXCEED ASTM F2881 AND AASHTO M9-21. PIPE SHALL BE JOINED WITH FLEXIBLE GASKET O-RINGS PER ASTM C361, ASTM C443, AND ASTM C1619. SHAKERS SHALL BE WATERTIGHT. THE REQUIREMENTS OF ASTM 2212 SPIGOTS OF SHALL HAVE GASKETS MEETING THE REQUIREMENTS OF ASTM F477. GASKET SHALL BE INSTALLED BY THE PIPE MANUFACTURER AND COVERED WITH A REMOVABLE, PROTECTIVE WRAP TO ENSURE THE GASKETS ARE FREE FROM DAMAGE. THE SEWER GASKET SHALL BE INSTALLED DURING JOINT ASSEMBLY. INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM D3221 AND ADS RECOMMENDED INSTALLATION GUIDELINES, WITH THE EXCEPTION THAT MINIMUM COVER IN TRAFFIC AREAS FOR 12"-48" DIAMETER SHALL MEET HS-2 LOADING. AN INSTALLATION SHALL MEET OR EXCEED MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
13.	STORM SEWER MANHOLES SHALL BE PRECAST STRUCTURES, WITH THE DIAMETER DEPENDENT ON THE PIPE SIZE AND WITH APPROPRIATE FRAME AND LIDS (SEE CONSTRUCTION STANDARDS). WHERE NOTED ON THE PLANS OR CONSTRUCTION STANDARDS, MANHOLES SHALL INCORPORATE WATERSTOP/GASKETS AT ALL PIPE PENETRATIONS.
14.	WATER MAIN SHALL BE PVC C-900 PRESSURE PIPE IN ACCORDANCE WITH AWWA C900 (DR 18) FOR SIZES 4 INCH TO 12 INCH DIAMETER OR AWWA C905 (DR 18) FOR SIZES 14 INCH TO 48 INCH DIAMETER. PVC PIPE JOINTS SHALL BE FLEXIBLE ELASTOMERIC SEALS PER ASTM D-3139 AND F-477. MIN. COVER FROM FINISHED GRADE TO TOP OF WATER MAIN SHALL BE 5'.
15.	WATER MAIN FITTINGS (BENDS, ELBOWS, TEES, INCREASES, REDUCERS, ETC.) MAY OR MAY NOT BE SPECIFICALLY REFERENCED ON THE CONSTRUCTION PLANS; HOWEVER, THEY ARE TO BE CONSIDERED AS INCIDENTAL AND INCLUDED IN THE LINEAL FOOTAGE COST OF THE WATER MAIN.
16.	UNLESS NOTED OTHERWISE, GATE VALVES IN ACCORDANCE WITH VILLAGE STANDARDS SHALL BE USED WHEREVER VALVES ARE CALLED FOR. VALVES SHALL BE IRON BODY, BRONZE MOUNTED, PARALLEL RESILIENT SEAT VALVES PER AWWA C-509. ALL VALVES SHALL BE RATED FOR 300 PSI TEST PRESSURE AND 200 PSI WORKING PRESSURE.
17.	VALVE VAULTS SHALL BE USED AT LOCATIONS SHOWN ON THE PLANS. VAULTS SHALL BE PRECAST CONCRETE STRUCTURES, WITH APPROPRIATE FRAME AND LIDS (SEE CONSTRUCTION STANDARDS SHEET).
18.	HYDRANTS SHALL BE OF THE MANUFACTURE AND EQUIPPED WITH AUXILIARY VALVES AND VALVE BOXES IN ACCORDANCE WITH THE VILLAGE'S STANDARD. EACH HYDRANT SHALL BE EQUIPPED WITH TWO 2-1/2 INCH HOSE NOZZLE AND ONE 4-1/2 INCH PLUMBER PORT. HOSE THREADS SHALL BE THE STANDARD OF THE VILLAGE. ALL HYDRANTS SHALL OPEN LEFT (COUNTER-CLOCKWISE). ALL FIRE HYDRANTS SHALL BE SET 3 FEET TO 7 FEET FROM BACK OF CURB.
19.	WATER SERVICES SHALL BE LAID NOT LESS THAN 5.5 FEET BELOW GRADE.
20.	ALL WATERMAIN JOINTS MUST BE RESTRAINED WITH MEGA LUGS (EBAU IRON) ONLY. ALTERNATE FITTINGS MAY BE USED ONLY IF APPROVED BY THE VILLAGE.
21.	ALL WATER MAINS SHALL HAVE COMPACTED (CA-6) GRANULAR BEDDING, A MINIMUM OF 4 INCHES BELOW THE BOTTOM OF THE PIPE FOR THE FULL LENGTH. COST FOR BEDDING SHALL BE MERGED WITH THE UNIT PRICE BID FOR THE WATER MAIN.
22.	WHENEVER POSSIBLE, A WATER MAIN MUST BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED DRAIN OR SEWER LINE. SHOULD LOCAL CONDITIONS EXIST WHICH WOULD PREVENT A LATERAL SEPARATION OF 10 FEET, A WATER MAIN MAY BE LAID CLOSER THAN 10 FEET TO A STORM OR SANITARY SEWER PROVIDED THAT THE WATER MAIN INVERT IS AT LEAST 18 INCHES ABOVE THE CROWN OF THE SEWER, AND IS EITHER IN A SEPARATE TRENCH OR IN THE SAME TRENCH ON AN UNDISTURBED EARTH SHELF LOCATED TO ONE SIDE OF THE SEWER. IF IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL OR VERTICAL SEPARATION AS DESCRIBED ABOVE, THEN THE SEWER MUST ALSO BE CONSTRUCTED OF WATER MAIN TYPE MATERIAL AND PRESSURE TESTED TO THE MAXIMUM EXPECTED SURCHARGE HEAD TO ASSURE WATERTIGHTNESS BEFORE BACKFILLING.
23.	WHENEVER WATER MAINS MUST CROSS HOUSE SEWERS, STORM SEWERS OR SANITARY SEWERS, THE WATER MAIN SHALL BE LAID AT SUCH AN ELEVATION THAT THE INVERT OF THE WATER MAIN IS 18 INCHES ABOVE THE CROWN OF THE DRAIN OR SEWER. THIS VERTICAL SEPARATION MUST BE MAINTAINED FOR THAT PORTION OF THE WATER MAIN LOCATED WITHIN 10 FEET HORIZONTALLY OF ANY SEWER OR DRAIN CROSSING. THIS MUST BE MEASURED AS THE NORMAL DISTANCE FROM THE WATER MAIN TO THE DRAIN OR SEWER. IF IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION AS DESCRIBED ABOVE, OR IF IT IS NECESSARY FOR THE WATER MAIN TO PASS UNDER A SEWER OR DRAIN, THEN THE SEWER MUST BE CONSTRUCTED OF WATER MAIN TYPE MATERIAL. THIS CONSTRUCTION MUST EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE NORMAL DISTANCE FROM THE WATER MAIN TO THE SEWER OR DRAIN LINE IS AT LEAST 10 FEET. IN MAKING SUCH CROSSINGS, CENTER A LENGTH OF WATER MAIN PIPE OVER/UNDER THE SEWER TO BE CROSSED SO THAT THE JOINTS WILL BE EQUIVALENT FROM THE SEWER AND AS REMOTE AS POSSIBLE FROM THE SEWER. WATER MAIN MUST CROSS UNDER A SEWER, A VERTICAL SEPARATION OF 18 INCHES BETWEEN THE INVERT OF THE SEWER AND THE CROWN OF THE WATER MAIN SHALL BE MAINTAINED, ALONG WITH MEANS TO SUPPORT THE LARGER SIZE SEWER LINES TO PREVENT THEIR SETTLING AND BREAKING THE WATER MAIN.
24.	WATER AND SANITARY BUILDING SERVICES SHALL BE IN SEPARATE TRENCHES WITH A MINIMUM OF 10 FEET HORIZONTAL SEPARATION; OR IF THE SANITARY SEWER AND WATER SERVICES ARE INSTALLED IN THE SAME TRENCH, THE WATER SERVICE IS TO BE PLACED ON A SOLID SHELF A MINIMUM OF 18 INCHES ABOVE THE SANITARY SEWER AND THE SANITARY SEWER SERVICES SHALL BE CONSTRUCTED WITH EITHER PVC SCH-40 AND JOINTS CEMENT, DUCTILE IRON, OR SIMILAR TYPE MATERIAL AS APPROVED BY THE VILLAGE BUILDING DEPARTMENT.

UNDERGROUND UTILITIES (CONT'D)	
25.	THE UNDERGROUND CONTRACTOR SHALL PLACE AND MOUND EXCESS EXCAVATED TRENCH MATERIAL ADJACENT TO THE TRENCHES IN AN ORDERLY FASHION SO AS NOT TO CREATE A HAZARD OR OBSTRUCTION, AND TO MAINTAIN THE SITE IN A WORKABLE CONDITION. THE DISPOSAL AND PLACEMENT OF ALL EXCESS TRENCH MATERIAL SHALL BE THE RESPONSIBILITY OF THE EARTH EXCAVATING CONTRACTOR.
26.	THE UNDERGROUND CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING ANY EXCAVATION FOR THE INSTALLATION OF THE SEWER OR WATER SYSTEMS.
27.	ANY ANTICIPATED COST OF SHEETING SHALL BE REFLECTED IN THE CONTRACT AMOUNTS. NO ADDITIONAL COST WILL BE ALLOWED FOR SHEETING OR BRACING.
28.	FRAMES AND LIDS (OR GRATES) FOR SANITARY, WATER MAIN AND STORM SEWER STRUCTURES SHALL BE AS INDICATED WITHIN THESE IMPROVEMENT PLANS. (SEE CONSTRUCTION STANDARDS).
29.	ALL MANHOLES LOCATED IN AREAS SUBJECT TO INUNDATION MUST HAVE WATERPROOF, BOLT-DOWN FRAMES AND LIDS.
30.	ALL STRUCTURES SHALL HAVE A MINIMUM OF TWO (2) ADJUSTING RINGS (MIN 6 INCHES ADJUSTING HEIGHT) AND MAXIMUM OF THREE (3) RINGS (MAX 10 INCHES ADJUSTING HEIGHT). NO 1 INCH OR 2 INCH CONCRETE RINGS ARE ALLOWED. UNDER PAVED AREAS, TOP RING SHOULD BE RUBBER. USE ONE (1) EJWV INFERA-RISER RUBBER COMPOSITE.
31.	ALL TOP OF FRAMES FOR STORM AND SANITARY SEWERS AND VALVE VAULT COVERS AND B-BOXES ARE TO BE ADJUSTED TO MEET FINAL FINISHED GRADE UPON COMPLETION OF FINISHED GRADING AND FINAL BACKFILLING. THIS ADJUSTMENT IS TO BE MADE BY THE UNDERGROUND CONTRACTOR AND THE COST IS TO BE CONSIDERED INCIDENTAL. THE UNDERGROUND CONTRACTOR SHALL INSURE THAT ALL ROAD AND PAVEMENT INCIDENTS OR STRUCTURES (FRAMES AND GRATES) ARE AT FINISHED GRADE. ANY ADJUSTMENTS NECESSITATED BY THE CURB OR PAVING CONTRACTOR TO ACHIEVE FINAL RIM GRADE, RESULTING IN AN EXTRA FOR SAID ADJUSTMENTS, WILL BE CHARGED TO THE UNDERGROUND CONTRACTOR.
32.	THE CONTRACTOR SHALL INSTALL A 2 IN. X 4 IN. X 8 FT. POST ADJACENT TO THE TERMINUS OF THE SANITARY SERVICE, STORM SERVICE, AND WATER MAIN SERVICE, AS WELL AS SANITARY MANHOLES, STORM MANHOLES, CATCH BASINS, INLETS, AND VALVE VAULTS WITHIN TURF AREAS. THE POST SHALL EXTEND A MINIMUM F 4 FEET ABOVE THE GROUND. THE TOP 12 INCHES OF SAID POST SHALL BE PAINTED AS FOLLOWS: SANITARY-RED; WATER MAIN-BLUE; STORM-GREEN.
33.	SANITARY SEWERS INCLUDING MANHOLES AND SERVICE LINES SHALL BE SUBJECTED TO EITHER AN INFILTRATION TEST OR AIR TEST, AND APPLICABLE DEFLECTION TEST BY THE CONTRACTOR. ALLOWABLE INFILTRATION SHALL NOT EXCEED 100 GALLONS PER INCH DIAMETER OF PIPE PER MILE PER DAY. THE CONTRACTOR SHALL COORDINATE ALL TESTING SO THAT IT CAN BE WITNESSED BY THE VILLAGE ENGINEER, VILLAGE PUBLIC WORKS DEPARTMENT AS APPROPRIATE. TESTING PROCEDURES SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR SEWER AND WATER MAIN CONSTRUCTION, SECTION 31-1.1. IN ADDITION, VACUUM TESTING OF A MANHOLE SHALL BE REQUIRED PER ASTM C-1244.
34.	THE MAIN LINE SANITARY SEWER AND ANY PUBLIC STORM SEWER SHALL BE TELEVIEWED PRIOR TO ACCEPTANCE AND A VIDEO TAP SHALL BE PROVIDED TO THE VILLAGE. ALL NECESSARY CORRECTIVE WORK SHALL BE PERFORMED BY THE CONTRACTOR WITHOUT DELAY. COST FOR TELEVISION AND FURNISHING VIDEO TAP AND CORRECTIVE WORK SHALL BE INCIDENTAL TO THE CONTRACT (MERGED INTO UNIT PRICE OF THE SEWER PIPE).
35.	ALL WATER MAINS SHALL BE SUBJECTED TO A PRESSURE TEST BY THE CONTRACTOR. HYDROSTATIC PRESSURE TEST AND LEAKAGE SHALL BE BASED ON 150 PSI FOR 2 HOURS. WATER MAINS SHALL BE CHLORINATED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
36.	THE UNDERGROUND CONTRACTOR SHALL CONSIDER INCIDENTAL TO THE CONTRACT ANY CHLORINATION AND TESTING OF EXISTING WATER MAIN WHERE CONNECTIONS TO BINDER ARE INCLUDED ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND PROVISION OF ALL UTILITY SERVICES TO ALL OF THESE MAINS IS INDICATED ON THE DRAWINGS. IN THE EVENT THAT THE PRESSURE TESTS INVOLVING EXISTING MAINS FAIL, AND SUCH FAILURES ARE ATTRIBUTABLE TO DEFECTIVE ORIGINAL WORKMANSHIP AND MATERIAL, THEN THE CONTRACTOR SHALL BE ENTITLED TO ADDITIONAL PAYMENT FOR CORRECTING THE DEFICIENCIES.
37.	THE CONTRACTOR SHALL MAINTAIN A LEGIBLE RECORD ON A SET OF CONSTRUCTION PLANS INFORMATION CONCERNING ALL MANHOLES, WYES AND SERVICES, VALVE BOXES, CURB BOXES, ETC. SUCH THAT THEY CAN BE LOCATED IN THE FIELD IN A MANNER ACCESSIBLE TO THE APPLICABLE GOVERNMENTAL AGENCY. FINAL CONTRACT PAYMENT SHALL NOT COME DUE UNTIL THIS INFORMATION IS RECEIVED BY THE ENGINEER.
38.	ALL CATCH BASINS, SUMPS, DETENTION BASINS AND OTHER AREAS ACCUMULATING SEDIMENT ARE TO BE CLEANED AT THE END OF THE PROJECT PRIOR TO FINAL ACCEPTANCE. CLEANING MAY ALSO BE REQUIRED DURING THE COURSE OF THE CONSTRUCTION OF THE PROJECT IF IT IS DETERMINED THAT THE SILT AND DEBRIS TRAPS ARE NOT FUNCTIONING PROPERLY OR EXCESS DEBRIS HAS COLLECTED.
39.	IT SHALL BE THE RESPONSIBILITY OF THE UNDERGROUND CONTRACTOR TO REMOVE FROM THE SITE ANY AND ALL MATERIALS AND DEBRIS WHICH RESULT FROM HIS CONSTRUCTION OPERATIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.

PAVING, CURBS & WALKS	
1.	WORK UNDER THIS SECTION SHALL INCLUDE FINAL SUBGRADE SHAPING AND PREPARATION; FORMING, JOINTING, PLACEMENT OF ROADWAY AND PAVEMENT BASE COURSE MATERIALS AND SUBSEQUENT BINDER AND/OR SURFACE COURSES; PLACEMENT, FINISHING AND CURING OF CONCRETE; FINAL CLEAN-UP; AND ALL RELATED WORK.
2.	ALL PAVING, SIDEWALK, AND CURB AND GUTTER WORK SHALL BE DONE IN ACCORDANCE WITH THE I.D.O.T. STANDARD SPECIFICATIONS AND PER THE VILLAGE OF ROMEOVILLE CODE OF ORDINANCES.
3.	SUBGRADE FOR PROPOSED PAVEMENT SHALL BE FINISHED BY THE EXCAVATION CONTRACTOR TO WITHIN 1 FOOT, PLUS OR MINUS, OF PLAN ELEVATION. THE PAVING CONTRACTOR SHALL SATISFY HIMSELF THAT THE SUBGRADE HAS BEEN PROPERLY PREPARED AND THAT THE FINISH TOP OF SUBGRADE ELEVATION HAS BEEN GRADED WITHIN TOLERANCES ALLOWED IN THESE SPECIFICATIONS. THE PAVING CONTRACTOR ADVISES THE OWNER AND ENGINEER IN WRITING PRIOR TO FINE GRADING FOR BASE COURSE CONSTRUCTION. IT IS UNDERSTOOD THAT HE HAS APPROVED AND ACCEPTS THE RESPONSIBILITY FOR THE SUBGRADE. PRIOR TO PLACEMENT OF ANY MATERIALS IN THE SUBGRADE, THE CONTRACTOR SHALL BE PREPARED TO TH SUBGRADE TO INSURE THE PROPER THICKNESS OF PAVEMENT COURSES. NO CLAIMS FOR EXCESS TONNAGE OF BASE MATERIALS DUE TO IMPROPER SUBGRADE PREPARATION WILL BE HONORED.
4.	THE PROPOSED PAVEMENT SHALL CONSIST OF THE SUB-BASE COURSE, BASE COURSE, HOT-MIX ASPHALT BINDER COURSE, AND HOT-MIX ASPHALT SURFACE COURSE. OF THE THICKNESS AND MATERIALS AS SPECIFIED ON THE CONSTRUCTION PLANS. A PRIME COAT OF THE TYPE AND AT THE RATE SPECIFIED ON THE CONSTRUCTION PLANS SHALL BE APPLIED TO THE SUB-BASE COURSE AND BETWEEN HMA BINDER AND HMA SURFACE COURSES. UNLESS SHOWN AS A BID ITEM, PRIME COAT SHALL BE CONSIDERED AS INCIDENTAL TO THE COST OF THE CONTRACT. ALL PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE I.D.O.T. STANDARD SPECIFICATIONS.
5.	THE MAXIMUM SIZE AGGREGATE FOR THE HOT-MIX ASPHALT SURFACE COURSE MIXTURE SHALL BE 3/8 INCH. THE HOT-MIX ASPHALT BINDER COURSE SHALL BE AS SPECIFIED IN ARTICLE 1030.04 OF THE I.D.O.T. STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL SUBMIT A HOT-MIX ASPHALT DESIGN TO THE ENGINEER PRIOR TO THE INSTALLATION OF THE HOT-MIX ASPHALT.
6.	HOT-MIX ASPHALT BINDER COURSE SHALL BE PLACED ONLY WHEN THE AMBIENT AIR TEMPERATURE IS AT LEAST 40 DEGREES FAHRENHEIT AND THE FORECAST CALLS FOR RISING TEMPERATURES. HOT-MIX ASPHALT SURFACE COURSE SHALL BE PLACED ONLY WHEN THE AMBIENT AIR TEMPERATURE IS AT LEAST

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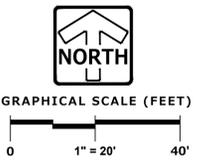
LEGEND	
	SIDEWALK
	6" PORTLAND CEMENT CONCRETE
	4" COMP. CA-6 AGGREGATE BASE COURSE, TYPE B
	LIGHT DUTY PAVEMENT (SN = 2.6)
	2" BIT. SURFACE COURSE, HMA, MIX D, N70, 9.5mm NOMINAL SIZE, PG64-28 (R.A.S. NOT PERMITTED)
	2.25" BIT. BINDER COURSE, HMA, IL-19, N70, 19.0mm NOMINAL SIZE, PG64-22
	0.30 GAL/SY BITUMINOUS PRIME COAT (MC-30)
	8" COMP. CA-6 AGGREGATE SUBBASE, TYPE B
	B-6.12 CURB & GUTTER
	DEPRESSED B-6.12 CURB & GUTTER
	REVERSE PITCH B-6.12 CURB & GUTTER
	PARKING STALL COUNT (NOT TO BE PAINTED)

LEGEND	
	EXISTING SANITARY MANHOLE
	PROPOSED SANITARY MANHOLE
	EXISTING STORM MANHOLE
	PROPOSED STORM MANHOLE
	CATCH BASIN/RISER
	INLET
	PRECAST FLARED END SECTION
	CONCRETE HEADWALL
	VALVE VAULT
	VALVE BOX
	BUFFALO BOX
	FIRE HYDRANT
	SIAMESE CONNECTION
	CLEANOUT
	SANITARY SEWER
	FORCEMAIN
	STORM SEWER
	WATERMAIN
	BUILDING LIGHT
	STREET SIGN
	LABELLED UTILITY CROSSING
	TRENCH BACKFILL

STRIPING/SIGNAGE LEGEND	
	4" YELLOW LINE
	YELLOW LETTERS AND SYMBOLS PAVEMENT MARKINGS
	R7-8 & R7-8P HANDICAP SIGN

- ### SITE DIMENSIONAL, PAVING AND UTILITY NOTES
- ALL PROPOSED CURB SHALL BE B-6.12 CURB & GUTTER UNLESS OTHERWISE NOTED.
 - ALL DIMENSIONS ARE FACE OF CURB TO FACE OF CURB OR BUILDING FACE UNLESS OTHERWISE NOTED.
 - BUILDING DIMENSIONS, GRADING, PARKING, AND UTILITY LAYOUT HAVE BEEN PREPARED BASED UPON ARCHITECTURAL INFORMATION. SUBSEQUENT ARCHITECTURAL CHANGES MAY EXIST AND CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION. IN CASE OF DISCREPANCIES BETWEEN ARCHITECTURAL PLANS AND CIVIL PLANS, NOTIFY BOTH ARCHITECT AND ENGINEER.
 - LOCATION OF PRIVATE SIDEWALKS SHALL BE COORDINATED WITH PROPOSED DOORWAYS. CONTRACTOR TO VERIFY ACTUAL BUILDING PLAN LOCATIONS WITH ARCHITECT/DEVELOPER PRIOR TO CONSTRUCTING THE SIDEWALKS.
 - REBAR / TIEBARS SHALL BE USED IN ALL LOCATIONS WHERE CONCRETE ABUTS OTHER CONCRETE FEATURES (i.e. SIDEWALK ADJACENT TO FOUNDATION WALL AND SIDEWALK/PAVEMENT ADJACENT TO CURB & GUTTER). TIEBAR SIZE AND SPACING SHALL BE PER IDOT SPECIFICATIONS. ALL REBAR/TIEBAR SHALL BE EPOXY COATED.
 - THE SUBGRADE FOR PROPOSED PAVEMENT AREAS SHALL BE PROOF-ROLLED BY THE CONTRACTOR AND ANY UNSTABLE AREAS ENCOUNTERED SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE SOILS ENGINEER.
 - CONTRACTOR SHALL CONSTRUCT ALL HANDICAP ACCESSIBLE ROUTES IN ACCORDANCE WITH LOCAL AND STATE ADA REQUIREMENTS.
 - PAVEMENT SLOPES THROUGH HANDICAP ACCESSIBLE PARKING AREAS SHALL BE 2.00% MAXIMUM IN ANY DIRECTION.
 - REFER TO CONSTRUCTION DETAILS AND GRADING ENLARGEMENTS FOR SIDEWALK RAMP AND HANDICAP STRIPING.
 - CONTRACTOR SHALL CONTACT 811 PRIOR TO CONSTRUCTION AND NOTIFY ENGINEERING OF ANY CONFLICTS WITH THE PROPOSED IMPROVEMENTS.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR UTILITY CONSTRUCTION.
 - ALL EXISTING INFORMATION AND EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR LOCATION OF EXISTING UTILITIES.
 - ALL UTILITIES SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY OR AGENCY.
 - ALL MANHOLES AND VALVE VAULTS SHALL HAVE THE "VILLAGE OF ROMEOVILLE" CAST INTO THE LID. ALL OPEN LIDS OR GRATES SHALL HAVE THE WORDS "DRAIN TO CREEK, DUMP NO WASTE" PERMANENTLY INSCRIBED.
 - CONTRACTOR SHALL VERIFY LOCATION, SIZE, AND ELEVATION OF ALL BUILDING SERVICES WITH ARCHITECTURAL AND MEP PLANS.
 - CONTRACTOR SHALL ADJUST ALL RIM ELEVATIONS OF EXISTING STRUCTURES TO PROPOSED GRADE.
 - ALL UTILITY DIMENSIONS ARE TO CENTER OF PIPE OR CENTER OF STRUCTURES UNLESS OTHERWISE NOTED.
 - CONTRACTOR SHALL CONTACT EACH UTILITY COMPANY AND COORDINATE FINAL LOCATIONS OF ALL ELECTRIC, GAS, AND TELEPHONE SERVICES PRIOR TO START OF CONSTRUCTION.
 - CONTRACTOR SHALL LOCATE ALL EXISTING SEWER AND WATERMAIN LOCATION, SIZE, ELEVATION, AND CONDITION AT POINTS OF CONNECTION AND WHERE PROPOSED UTILITIES SHALL CROSS OR POTENTIALLY COME IN CONFLICT WITH EXISTING LINES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEERING OF ANY DISCREPANCIES OR CONFLICTS.
 - UNDERGROUND IMPROVEMENTS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH THE CITY, THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, IDOT. IN THE EVENT OF CONFLICTING GUIDELINES, THE MORE RESTRICTIVE SHALL GOVERN.
 - REFER TO MECHANICAL PLANS FOR KNOX-BOX LOCATION. KNOX-BOX SHALL BE SERIES 3200 OR 4400.
 - MONITORING MANHOLE SHALL REMAIN ACCESSIBLE TO AUTHORIZED VILLAGE REPRESENTATIVES AT ALL TIMES. THERE SHALL BE NO CHANGES IN SLOPE OR ALIGNMENT FOR AT MINIMUM 15 PIPE DIAMETERS UP OR DOWNSTREAM FROM THE MANHOLE. NO OTHER PIPES SHALL CROSS THE MANHOLE.

- ### VILLAGE OF ROMEOVILLE GENERAL NOTES
- THREE (3) DRILLED AND GROUTED NO. 5 REINFORCING BARS OR EXPANSION TIE ANCHORS, 5/8" IN DIAMETER, SHALL BE USED TO TIE THE NEW CURB AND GUTTER TO THE EXISTING CURB AND GUTTER ON EACH SIDE.



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ROMEOVILLE - ANIMAL CONTROL FACILITY

ROMEOVILLE, ILLINOIS

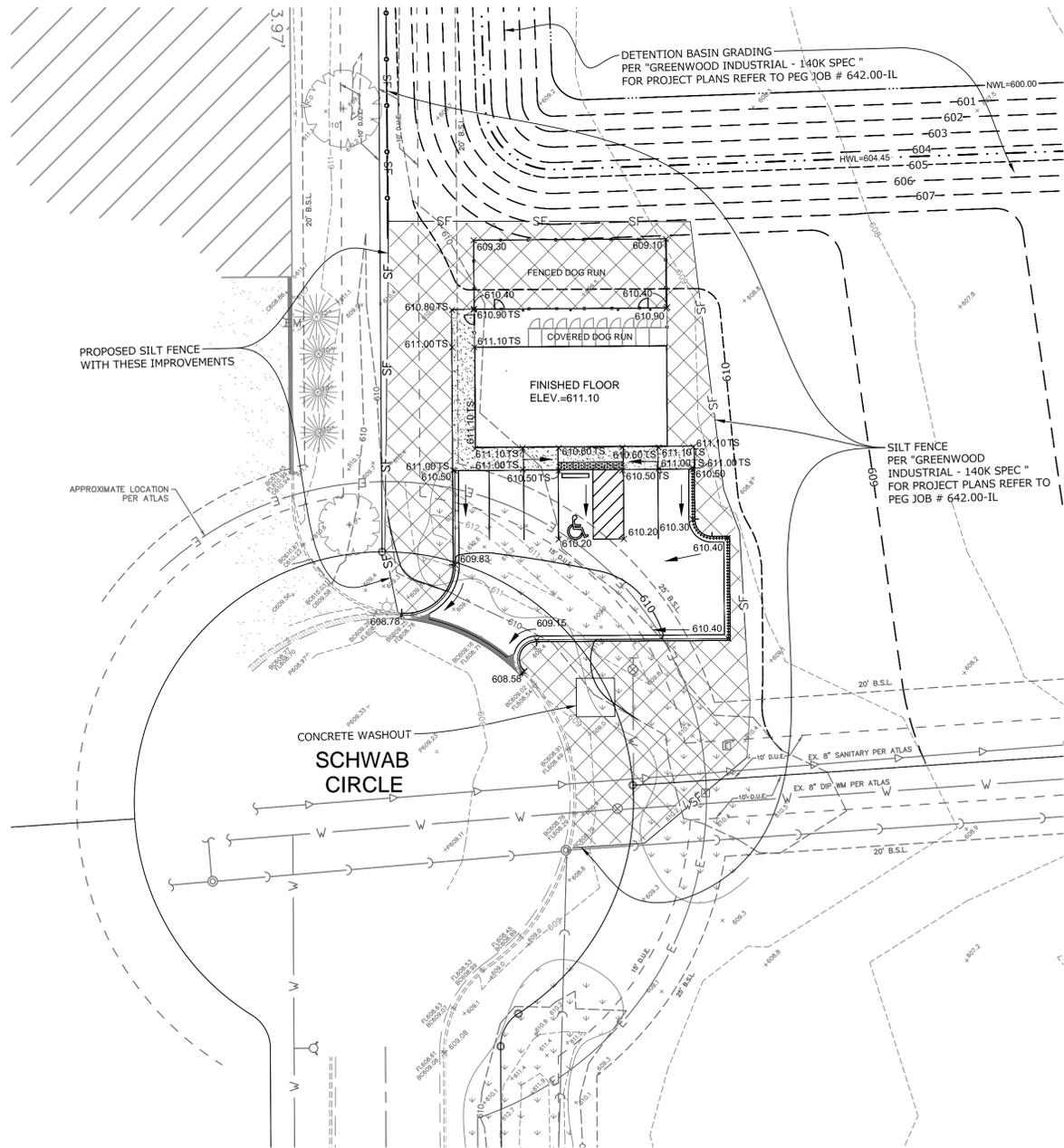
REVISIONS	

SITE DIMENSIONAL AND UTILITY PLAN

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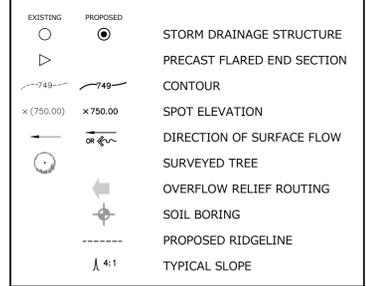
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ROMEOVILLE EROSION CONTROL NOTES

1. ALL ACCESS TO AND FROM THE CONSTRUCTION SITE IS TO BE RESTRICTED TO THE CONSTRUCTION ENTRANCE.
2. ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE EFFECTIVE PERFORMANCE OF THEIR INTENDED FUNCTION.
3. MAJOR AMENDMENTS OF THE SITE DEVELOPMENT OR EROSION AND SEDIMENTATION CONTROL PLANS SHALL BE SUBMITTED TO THE DEPARTMENT OF COMMUNITY DEVELOPMENT TO BE APPROVED IN THE SAME MANNER AS THE ORIGINAL PLANS.
4. ANY SEDIMENT REACHING A PUBLIC OR PRIVATE ROAD SHALL BE REMOVED BY SHOVELING OR STREET CLEANING (NOT FLUSHING) BEFORE THE END OF EACH WORKDAY AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL.
5. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE DISPOSED OF WITHIN 30 DAYS AFTER THE SITE STABILIZATION IS ACHIEVED WITH PERMANENT SOIL STABILIZATION MEASURES.
6. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 7 CALENDAR DAYS FOLLOWING THE END OF ACTIVE DISTURBANCE OR REDISTURBANCE.

LEGEND



EROSION CONTROL LEGEND

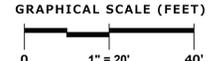


ELEVATIONS

1. CONTOURS ARE SHOWN AS FINISHED GRADE.
2. SPOT ELEVATIONS ARE SHOWN AS FLOW LINE ALONG THE CURB AND GUTTER AND FINISHED GRADE ELSEWHERE UNLESS SPECIFIED AS BELOW:
 EP = EDGE OF PAVEMENT
 TC = TOP OF CURB
 ME = MATCH EXISTING
 TS = TOP OF SIDEWALK

GRADING & SITE STABILIZATION NOTES

1. CONTRACTOR SHALL CONTACT 811 PRIOR TO CONSTRUCTION AND NOTIFY ENGINEERING OF ANY CONFLICTS WITH THE PROPOSED IMPROVEMENTS.
2. BUILDING DIMENSIONS, GRADING, PARKING, AND UTILITY LAYOUT HAVE BEEN PREPARED BASED UPON ARCHITECTURAL INFORMATION. SUBSEQUENT ARCHITECTURAL CHANGES MAY EXIST AND CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION. IN CASE OF DISCREPANCIES BETWEEN ARCHITECTURAL PLANS AND CIVIL PLANS, NOTIFY BOTH ARCHITECT AND ENGINEER.
3. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION. GREEN/OPEN SPACE SHALL HAVE A MINIMUM OF 6" OF TOPSOIL RESPREAD. NATIVE AREAS SHALL HAVE A MINIMUM OF 12" OF TOPSOIL. TOPSOIL SHALL BE APPROVED BY THE VILLAGE ENGINEER OR WETLAND CONSULTANT.
4. CONTRACTOR SHALL MEET ALL COMPACTION REQUIREMENTS AS SPECIFIED BY GEOTECHNICAL REPORT, PROJECT SPECIFICATIONS, AND ENGINEER.
5. CONTRACTOR SHALL CONSTRUCT ALL HANDICAP ACCESSIBLE ROUTES IN ACCORDANCE WITH LOCAL AND STATE ADA REQUIREMENTS.
6. PAVEMENT SLOPES THROUGH HANDICAP ACCESSIBLE PARKING AREAS SHALL BE 2.00% MAXIMUM IN ANY DIRECTION.
7. REFER TO CONSTRUCTION DETAILS FOR SIDEWALK RAMPS AND HANDICAP STRIPING.
8. ALL EXISTING AND PROPOSED CONTOURS ARE SHOWN IN 1' INCREMENTS.
9. CONTRACTOR SHALL NOT BLOCK DRAINAGE.
10. CONTRACTOR SHALL ADJUST ALL RIM ELEVATIONS OF EXISTING STRUCTURES TO PROPOSED GRADE AS NECESSARY.
11. CONTRACTOR SHALL REFER TO PLAN SPECIFICATIONS, SOIL EROSION CONTROL PLAN, AND SWPPP PRIOR TO CONSTRUCTION FOR WATER QUALITY REQUIREMENTS ASSOCIATED WITH LAND DISTURBANCE.
12. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL, LATEST EDITION.
13. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF ANY CONSTRUCTION OR DISTURBANCE OF THE SITE. THE MEASURES MAY HAVE TO BE ADJUSTED TO MEET FIELD CONDITIONS DURING CONSTRUCTION. ANY MEASURES, IN ADDITION TO THOSE OUTLINED IN THE PLANS AND WHICH ARE DEEMED NECESSARY BY THE VILLAGE, SHALL BE IMPLEMENTED IMMEDIATELY BY THE DEVELOPER.
14. REGULAR INSPECTION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES MUST BE PROVIDED BY THE DEVELOPER. INSPECTIONS SHOULD OCCUR WEEKLY, AND AFTER ANY RAINFALL GREATER THAN 1/2". ANY NON-FUNCTIONING SEDIMENT CONTROL MEASURES OR DAMAGED DEVICES THAT ARE FOUND DURING INSPECTION SHALL BE REPAIRED OR REPLACED IMMEDIATELY. THE DEVELOPER SHALL BE RESPONSIBLE FOR ANY SEDIMENT WHICH LEAVES THE PROPERTY, AND THE DEVELOPER IS ALSO RESPONSIBLE FOR MAINTENANCE OF ALL SEDIMENT CONTROL MEASURES UNTIL THE SITE IS PERMANENTLY STABILIZED.
15. ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS SHALL BE PROTECTED TO PREVENT TRACKING OF DEBRIS, DIRT, AND MUD ONTO ADJACENT STREETS, PARKING LOTS, OR PROPERTIES. ANY DEBRIS, DIRT, OR MUD THAT REACHES AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, OR PARKING AREA SHALL BE PROMPTLY REMOVED, AND TRANSPORTED TO A PROPER DISPOSAL AREA.
16. ALL SEDIMENT MUST BE PREVENTED FROM ENTERING ANY PUBLIC OR PRIVATE STORM DRAINAGE SYSTEM. REUSABLE INLET FILTER BASKETS (FLEXSTORM, CATCHALL, OR EQUIVALENT), SEDIMENT BASINS, AND WATER FILTERING BAGS, SHALL BE PROVIDED AS NEEDED.
17. ALL DRAINAGE SWALES SHALL BE STABILIZED WITH SPECIFIED EROSION CONTROL BLANKET.
18. TOPSOIL STOCKPILES SHALL BE LOCATED TO AVOID EROSION OF STOCKPILE ONTO NEIGHBORING PROPERTIES OR INTO RESTORED PROJECT AREAS. STOCKPILES SHALL BE LOCATED SO THAT A DRAINAGE SWALE IS LOCATED BETWEEN THE STOCKPILE AND ANY DOWNSTREAM PROPERTIES. IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN 14 DAYS, IT MUST BE SEEDED AND BLANKETED TO MINIMIZE SOIL EROSION BY BOTH WIND AND WATER.
19. THE DEVELOPER IS RESPONSIBLE FOR OBTAINING A SEPARATE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FROM THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY WHENEVER 1 ACRE OR MORE OF PROPERTY IS DISTURBED. FOR DEVELOPMENTS OVER 1 ACRE, THE DEVELOPER MUST ALSO PREPARE AND MAINTAIN A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AT THE PROJECT SITE, ALONG WITH THE NPDES PERMIT. FOR DEVELOPMENTS LESS THAN 1 ACRE, A SEDIMENT AND EROSION CONTROL PLAN MUST BE MAINTAINED BY THE DEVELOPER.
20. IF DEWATERING SERVICES ARE USED, ADJACENT PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES FROM CONSTRUCTION DEWATERING SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE SUCH AS A SEDIMENT TRAP, A SEDIMENT BASIN, OR ANY OTHER APPROPRIATE MEASURE.



PINNACLE ENGINEERING GROUP
 ENGINEERING | NATURAL RESOURCES | SURVEYING
 PLAN | DESIGN | DELIVER
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 1051 E. MAIN ST., SUITE 217
 EAST DUNDEE, IL 60118
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 CHICAGO | MILWAUKEE | NATIONWIDE

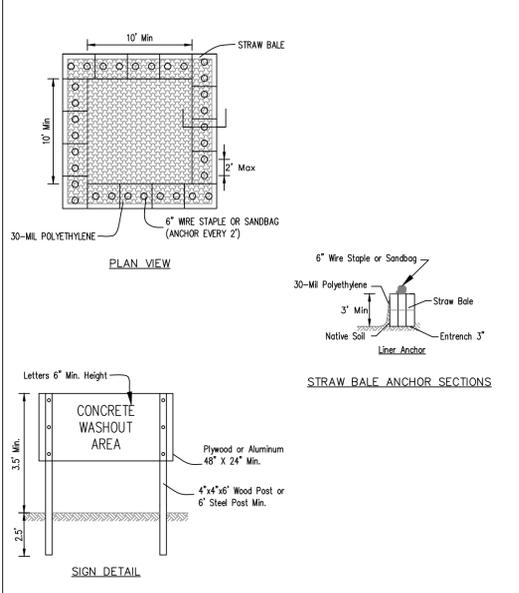
ROMEOVILLE - ANIMAL CONTROL FACILITY
 ROMEOVILLE, ILLINOIS

REVISIONS	

GRADING AND SITE STABILIZATION PLAN
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 GRADING AND SITE STABILIZATION PLAN
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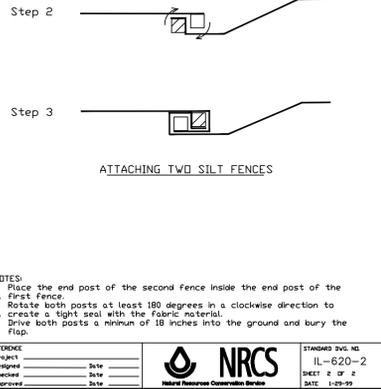
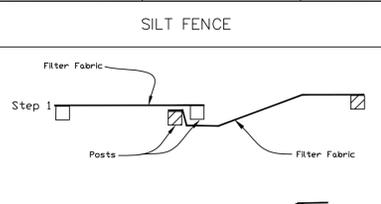
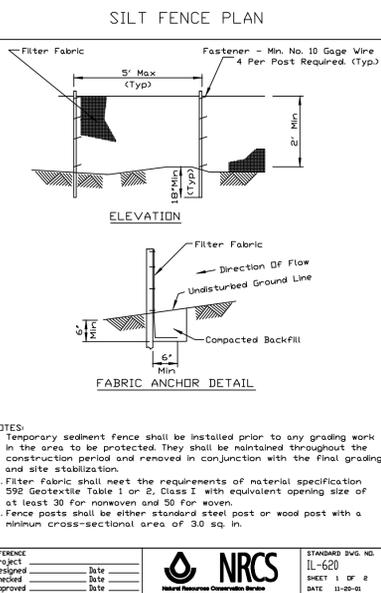
THESE PLANS AND DESIGNS ARE COPYRIGHT PROTECTED AND MAY NOT BE USED IN WHOLE OR IN PART WITHOUT THE WRITTEN CONSENT OF PINNACLE ENGINEERING GROUP, LLC. 2/28/2016 4:10 PM - 2: Projects\46210-1\312 - engineering cad files\FINAL SHEETS\C-4 CONSTRUCTION. REVIEWED: RDJ. DESIGNED: DAT. DRAWN: ASJ/DAT.



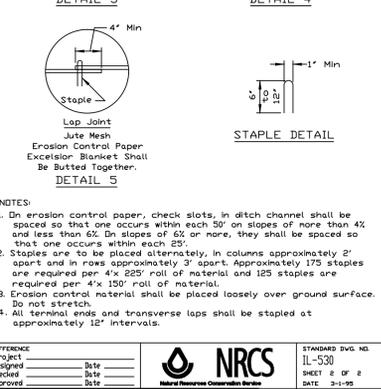
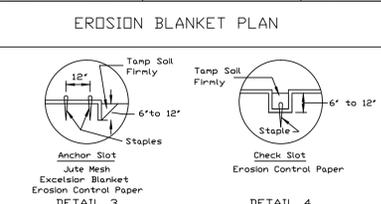
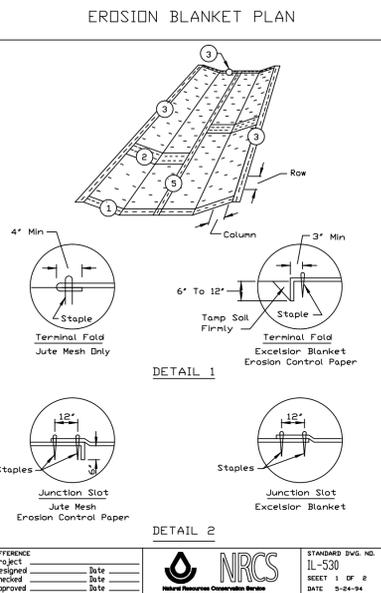
NOTES:
1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardened concrete and/or slurry and returning the facilities to a functional condition.
2. Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.
3. Each straw bale is to be staked in place using (2) 2"x4" wooden stakes.



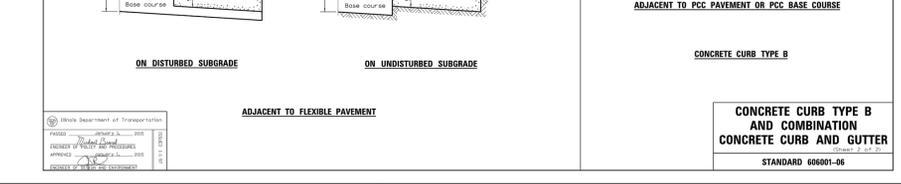
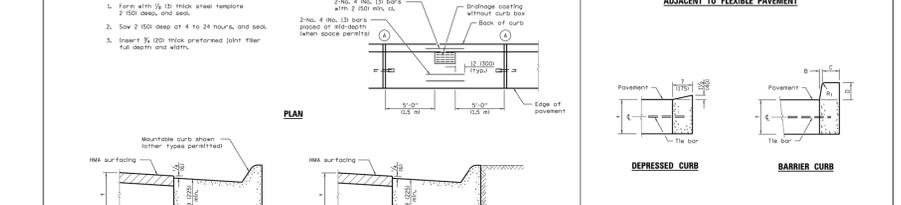
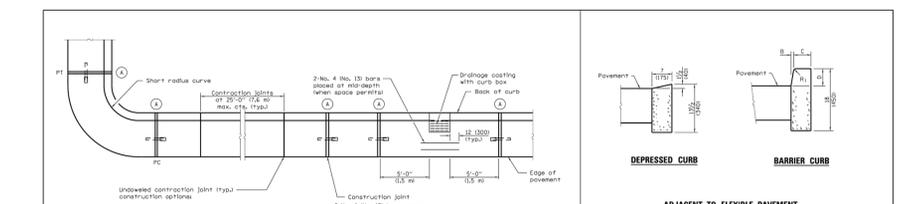
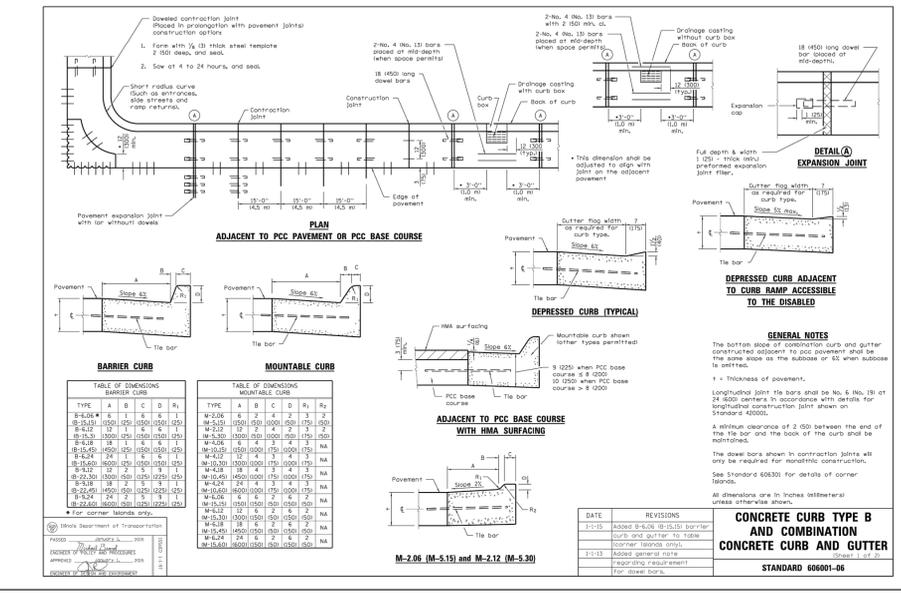
NOTES:
1. In erosion control paper, check slots, in ditch channel shall be spaced so that one occurs within each 50' on slopes of more than 4% and less than 6%. On slopes of 6% or more, they shall be spaced so that one occurs within each 25'.
2. Staples are to be placed alternately, in columns approximately 2' apart and in rows approximately 2' apart. Approximately 175 staples are required per 4' x 225' roll of material and 125 staples are required per 4' x 150' roll of material.
3. Erosion control material shall be placed loosely over ground surface. Do not stretch.
4. All terminal ends and transverse laps shall be stapled at approximately 12" intervals.



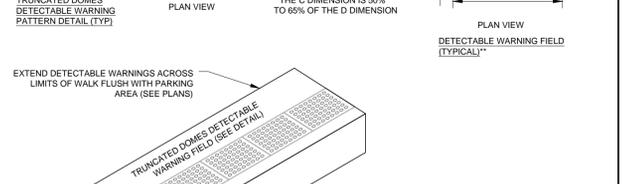
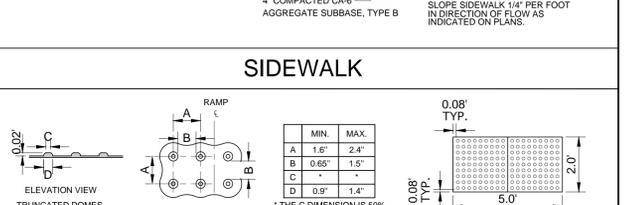
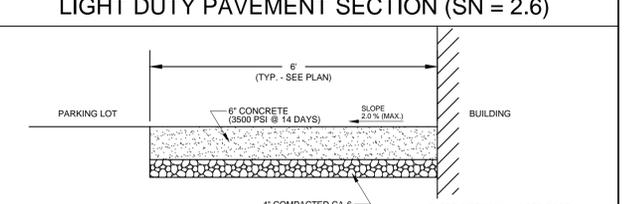
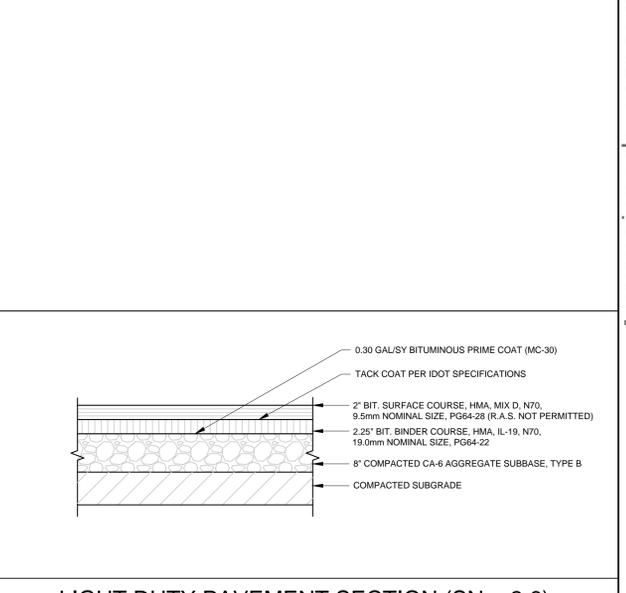
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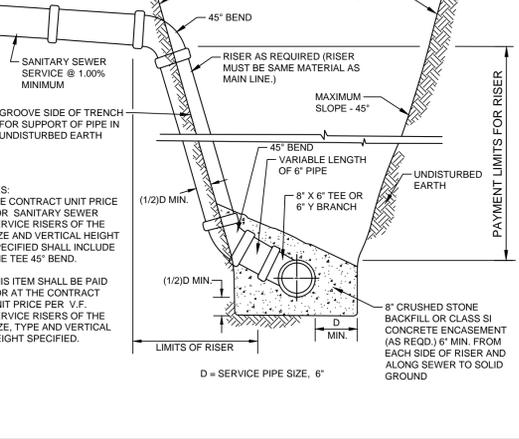
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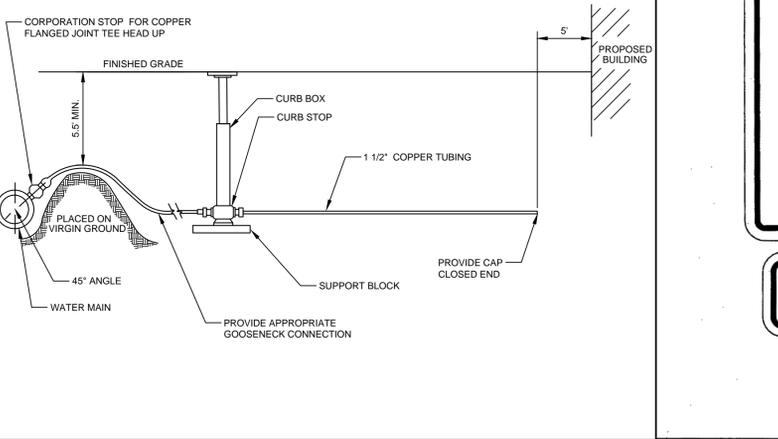
NOTES:
1. The bottom slope of construction curb and gutter constructed adjacent to road pavement shall be the same slope as the subbase or 2% when subbase is not shown.
2. A minimum clearance of 2' shall be maintained between the end of the curb and the back of the curb.
3. The slope bars shown in construction joints shall only be required for nontraffic construction.
4. See Standard 60600 for details of corner details.
5. All dimensions are in inches unless otherwise specified.



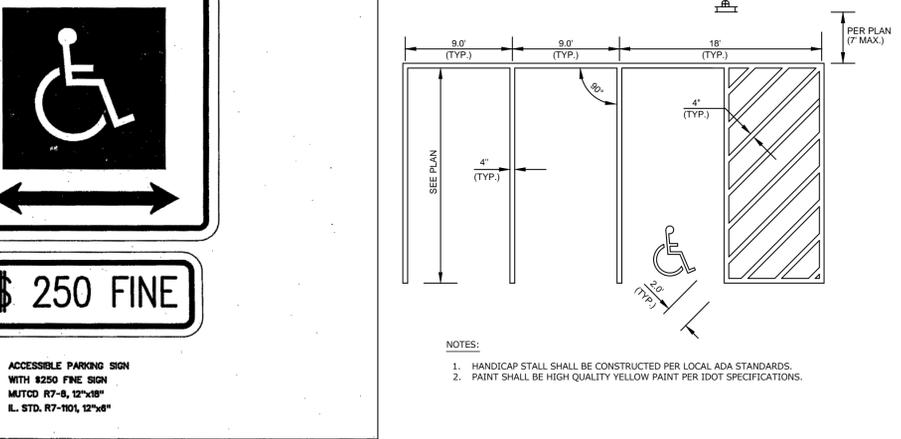
NOTES:
1. DETECTABLE WARNING PLATES TO BE EAST JORDAN INSERTS, HEAVY DUTY LOAD RATING, BRICK RED POWDER COATING RAL3016 (OR APPROVED EQUAL). VERIFY WITH OWNER PRIOR TO INSTALLATION.



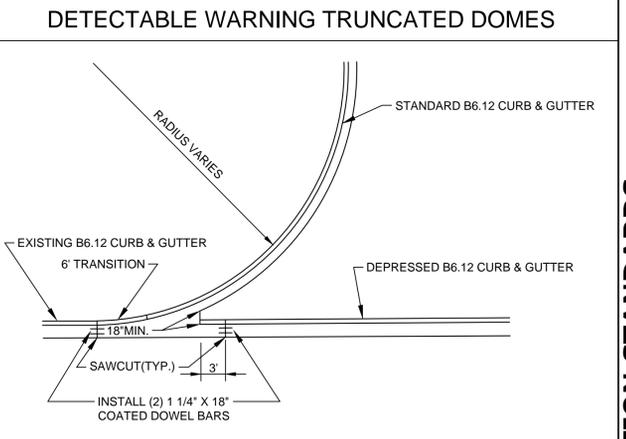
SANITARY SEWER SERVICE RISER



WATER SERVICE CONNECTION



ACCESSIBLE PARKING SIGN



CURB & GUTTER AT DRIVEWAY APPROACH

PINNACLE ENGINEERING GROUP. ROMEOVILLE - ANIMAL CONTROL FACILITY. ROMEOVILLE, ILLINOIS. CONSTRUCTION STANDARDS. SHEET C-4 OF C-4.