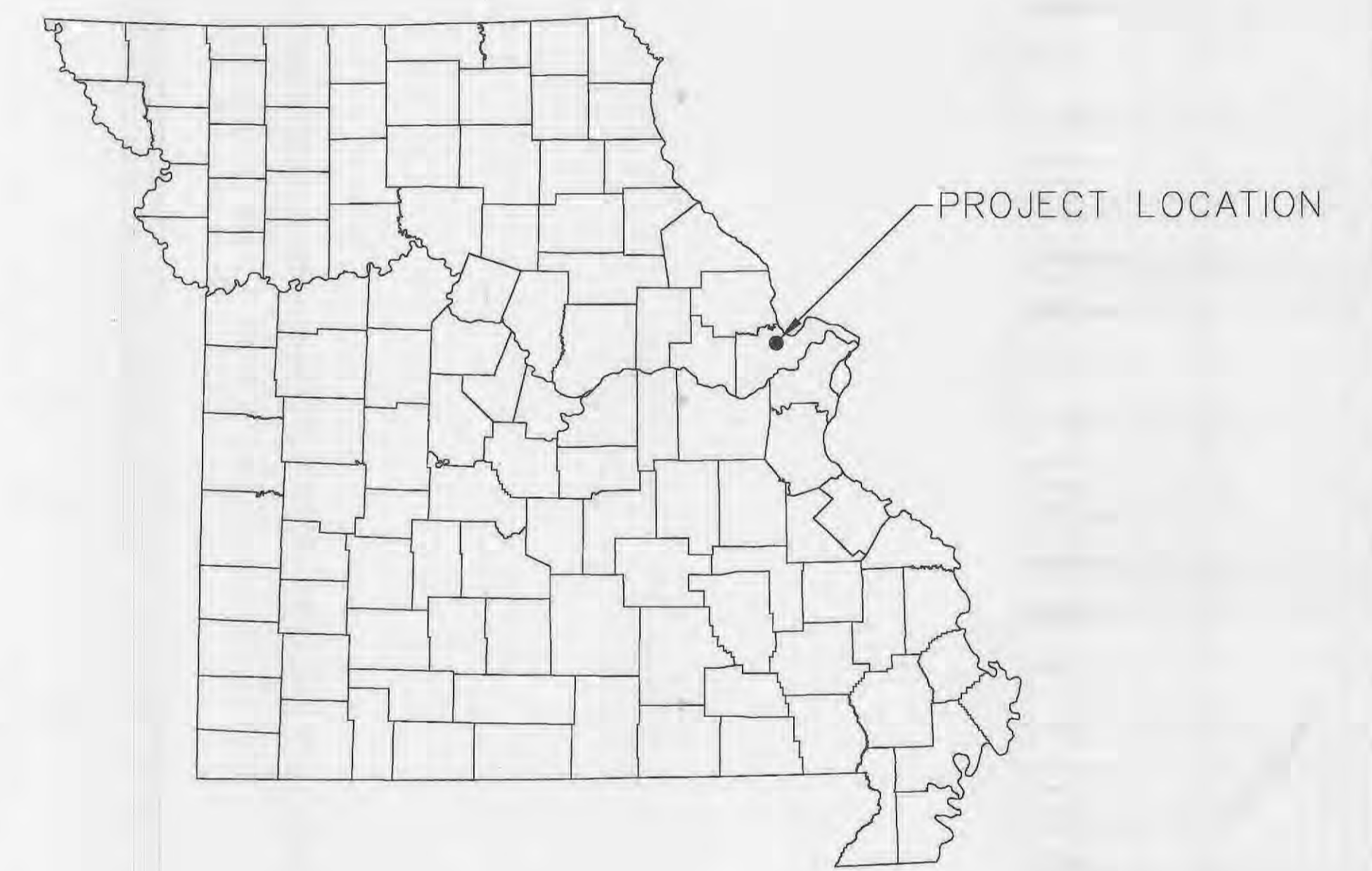


AMEREN O'FALLON RENEWABLE ENERGY CENTER 5.7 MW DC (4.5 MW AC) PV POWER PLANT

CITY OF O'FALLON, MISSOURI



VICINITY MAP
NORTH
N.T.S.

THIS RECORD DRAWING HAS BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THIS RECORD DRAWING OR FOR ANY ERRORS OR OMISSIONS THAT MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT OF INCORRECT INFORMATION PROVIDED TO THE ENGINEER. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY.

"RECORD DRAWINGS"

HORIZONTAL & VERTICAL DATUMS, BASIS OF BEARING, AND SURVEY CONTROL (KUHLMANN DESIGN GROUP, INC):

HORIZONTAL DATUM: BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD 83), STATE PLANE, MISSOURI EAST ZONE, U.S. FEET.
 VERTICAL DATUM: BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), U.S. FEET.
 BASIS OF BEARING: BASED ON THE NAD 83, GRID NORTH.

CONTROL POINTS:

- KDGMCI-100 (IRON PIPE W/CAP)
 NORTHING: 1090153.95
 EASTING: 769028.53
 ELEVATION: 514.00
- KDGMCI - 101 (IRON PIPE W/CAP)
 NORTHING: 1090665.31
 EASTING: 769193.22
 ELEVATION: 504.76
- KDGMCI - 105 (IRON PIPE W/CAP)
 NORTHING: 1089279.09
 EASTING: 769978.61
 ELEVATION: 497.75

SITE MAP
NORTH
N.T.S.

CONFORMING TO CONSTRUCTION RECORDS

DECEMBER 3, 2014



BMCD# 7705
 425 E Woods Mill Rd
 Chesterfield, MO 63017
 (314) 982-1600

Burns & McDonnell
 SINCE 1898



Date: 06/11/2015
 Darrell D. Butler
 Professional Engineer
 #2011000863

REV	PROJ ID	DATE	DRWN	RWN	APPR	DATE	BY	APPD
01		12-23-14	LFSD	LMJL	DFE			

COVER
AS-BUILT

O'FALLON RENEWABLE ENERGY CENTER

OF-DWG-PROP-00G001

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 PRINTED BY: pdm
 TIME: 2/14/15 14:42

CITY OF O'FALLON, MO - COMMERCIAL CONSTRUCTION GENERAL NOTES

GENERAL NOTES:

- ACCESSIBLE PARKING SPACES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT APPROVED "AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES" (ADAAG) ALONG WITH THE REQUIRED GRADES, CONSTRUCTION MATERIALS, SPECIFICATIONS AND SIGNAGE. IF ANY CONFLICT OCCURS BETWEEN THE ABOVE INFORMATION AND THE PLANS, THE ADAAG GUIDELINES SHALL TAKE PRECEDENCE AND THE CONTRACTOR PRIOR TO ANY CONSTRUCTION SHALL NOTIFY THE PROJECT ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE TO CALL MISSOURI ONE CALL AND THE CITY OF O'FALLON FOR THE LOCATION OF UTILITIES. CONTACT THE CITY OF O'FALLON AT (636) 281-2858 FOR WATER MAIN, SANITARY SEWER AND STORM SEWER LOCATES. CALL MISSOURI ONE CALL AT 1-800-DIG-RITE (1-800-344-7483) FOR ALL OTHER UTILITIES. CONTACT THE CITY OF O'FALLON ENGINEERING DIVISION AT (636) 379-5556 AND THE CONSTRUCTION INSPECTION DIVISION AT (636) 379-5596.
- ALL FENCING REQUIRES A SEPARATE PERMIT THROUGH THE CITY OF O'FALLON PLANNING & DEVELOPMENT DIVISION.
- ALL CONSTRUCTION OPERATIONS AND WORK ZONE TRAFFIC CONTROL WITHIN THE RIGHT OF WAY WILL FOLLOW MODOT OR M.U.T.C.D. STANDARDS WHICHEVER IS MORE STRINGENT.
- ALL FREE STANDING SIGNS SHALL BE LOCATED A MINIMUM OF TEN (10) FEET AWAY FROM ANY RIGHT OF WAY LINE AND/OR PROPERTY LINE AND A MINIMUM OF THREE (3) FEET FROM THE BACK OF CURBING OR SIDEWALK. ALL SIGNS SHALL ABIDE BY THE REGULATIONS FOR VISIBILITY AT CORNERS, INCLUDING CORNERS FROM DRIVEWAYS AND THE STREET IT INTERSECTS PER SECTION 400.260 OF THE O'FALLON ZONING CODE.
- MATERIALS SUCH AS TREES, ORGANIC DEBRIS, RUBBLE, FOUNDATIONS AND OTHER DELETERIOUS MATERIAL THAT ARE NOT TO BE REUSED, SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN COMPLIANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. IF THE MATERIAL LISTED PREVIOUSLY ARE REUSED, A LETTER FROM A SOIL ENGINEER MUST CLARIFY AMOUNT, LOCATION, DEPTH, ECT. AND MUST BE APPROVED WITH THE CONSTRUCTION PLANS. LANDFILL TICKETS FOR SUCH DISPOSAL SHALL BE MAINTAINED ON FILE BY THE DEVELOPER. BURNING ON SITE SHALL BE ALLOWED ONLY BY PERMIT FROM THE LOCAL FIRE DISTRICT. IF A BURN PIT IS PROPOSED, THE LOCATION AND MITIGATION SHALL BE SHOWN ON THE GRADING PLAN AND DOCUMENTED BY THE SOILS ENGINEER.
- TWENTY-FOUR (24) HOURS PRIOR TO STARTING ANY OF THE WORK COVERED BY THE ABOVE PLANS AND AFTER APPROVAL THEREOF, THE DEVELOPER SHALL MAKE ARRANGEMENTS WITH THE CONSTRUCTION INSPECTION OFFICE TO PROVIDE FOR INSPECTION OF THE WORK, SUFFICIENT IN THE OPINION OF THE CITY ENGINEER, TO ASSURE COMPLIANCE WITH THE PLANS AND SPECIFICATIONS AS APPROVED.
- THE CITY ENGINEER OR THEIR DULY AUTHORIZED REPRESENTATIVE SHALL MAKE ALL NECESSARY INSPECTIONS OF CITY INFRASTRUCTURE, ESCROW ITEMS OR INFRASTRUCTURE LOCATED ON THE APPROVED PLANS.
- CITY APPROVAL OF ANY CONSTRUCTION SITE PLAN DOES NOT MEAN THAT ANY BUILDING CAN BE CONSTRUCTED ON THE LOTS WITHOUT MEETING THE BUILDING SETBACKS AS REQUIRED BY THE ZONING CODES.
- ALL INSTALLATIONS AND CONSTRUCTION SHALL CONFORM TO THE APPROVED ENGINEERING DRAWINGS. HOWEVER, IF THE DEVELOPER CHOOSES TO MAKE MINOR MODIFICATIONS IN DESIGN AND/OR SPECIFICATIONS DURING CONSTRUCTION, THEY SHALL MAKE SUCH CHANGES AT THEIR OWN RISK, WITHOUT ANY ASSURANCE THAT THE CITY ENGINEER WILL APPROVE THE COMPLETED INSTALLATION OR CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO NOTIFY THE CITY ENGINEER OF ANY CHANGES FROM THE APPROVED DRAWINGS. THE DEVELOPER MAY BE REQUIRED TO CORRECT THE INSTALLED IMPROVEMENTS SO AS TO CONFORM TO THE APPROVED ENGINEERING DRAWINGS. THE DEVELOPER MAY REQUEST A LETTER FROM THE CONSTRUCTION INSPECTION DIVISION REGARDING ANY FIELD CHANGES APPROVED BY THE CITY INSPECTOR.

EROSION CONTROL NOTES:

- THE PERMITTEE SHALL ASSUME COMPLETE RESPONSIBILITY FOR CONTROLLING ALL SILTATION AND EROSION OF THE PROJECT AREA. THE PERMITTEE SHALL USE WHATEVER MEANS NECESSARY TO CONTROL EROSION AND SILTATION INCLUDING, BUT NOT LIMITED TO, STAKED STRAW BALES AND/OR SILTATION FABRIC FENCES (WHICHEVER METHODS OF CONTROL ARE DETAILED IN THE PLAN). CONTROL SHALL COMMENCE WITH THE CLEARING OPERATIONS AND BE MAINTAINED THROUGHOUT THE PROJECT UNTIL ACCEPTANCE OF THE WORK BY CITY OF O'FALLON AND AS NEEDED BY MODOT. THE PERMITTEE'S RESPONSIBILITIES INCLUDE ALL DESIGN AND IMPLEMENTATION AS REQUIRED TO PREVENT EROSION AND THE DEPOSITING OF SILT. THE CITY OF O'FALLON AND AS REQUIRED BY MODOT MAY AT THEIR OPTION DIRECT THE PERMITTEE IN HIS METHODS AS DEEMED FIT TO PROTECT PROPERTY AND IMPROVEMENTS. ANY DEPOSITING OF SILT OR MUD ON NEW OR EXISTING PAVEMENT SHALL BE REMOVED IMMEDIATELY. ANY DEPOSITING OF SILTS OR MUD IN NEW OR EXISTING STORM SEWERS AND/OR SWALES SHALL BE REMOVED AFTER EACH RAIN AND AFFECTED AREAS CLEANED TO THE SATISFACTION OF THE CITY OF O'FALLON AND AS REQUIRED BY MODOT.
- ALL EROSION CONTROL SYSTEMS ARE TO BE INSPECTED AND CORRECTED WEEKLY, ESPECIALLY WITHIN 48 HOURS OF ANY RAIN STORM RESULTING IN ONE-HALF INCH OF RAIN OR MORE. ANY SILT OR DEBRIS LEAVING THE SITE AND AFFECTING PUBLIC RIGHT OF WAY OR STORM WATER DRAINAGE FACILITIES SHALL BE CLEANED UP WITHIN 24 HOURS AFTER THE END OF THE STORM.
- EROSION CONTROL DEVICES (SILT FENCE, SEDIMENT BASIN, ETC.) SHALL BE IN ACCORDANCE WITH ST. CHARLES COUNTY SOIL AND WATER CONSERVATION DISTRICT EROSION AND SEDIMENT CONTROL GUIDELINES.
- THIS DEVELOPMENT IS REQUIRED TO PROVIDE LONG TERM POST CONSTRUCTION BMP'S SUCH AS: LOW IMPACT DESIGN, SOURCE CONTROL AND TREATMENT CONTROLS THAT PROTECTS WATER QUALITY AND CONTROLS RUN OFF TO THE MAXIMUM EXTENT PRACTICAL IN COMPLIANCE WITH PHASE II ILLICIT STORM WATER DISCHARGE GUIDELINES. (ORD. 6082, SECTION 405.0245)
- GRADED AREAS SHALL BE SEEDED AND MULCHED (STRAWED) WITHIN 14 DAYS OF STOPPING LAND DISTURBANCE ACTIVITIES. UNLESS IT CAN BE SHOWN TO THE CITY ENGINEER THAT WEATHER CONDITIONS ARE NOT FAVORABLE, VEGETATIVE GROWTH IS TO BE ESTABLISHED WITHIN 8 WEEKS OF STOPPING GRADING WORK ON THE PROJECT. THE VEGETATIVE GROWTH ESTABLISHED SHALL BE SUFFICIENT TO PREVENT EROSION AND THE STANDARD SHALL BE AS REQUIRED BY EPA AND DNR. (70% COVERAGE PER SQUARE FOOT) ORD. 5242, SECTION 405.070

GRADING NOTES:

- DEVELOPER MUST SUPPLY CITY CONSTRUCTION INSPECTORS WITH AN ENGINEER'S SOILS REPORT PRIOR TO AND DURING SITE GRADING. THE SOILS REPORT WILL BE REQUIRED TO CONTAIN THE FOLLOWING INFORMATION ON SOIL TEST CURVES (PROCTOR REPORTS) FOR PROJECTS WITHIN THE CITY:
 - MAXIMUM DRY DENSITY.
 - OPTIMUM MOISTURE CONTENT.
 - MAXIMUM AND MINIMUM ALLOWABLE MOISTURE CONTENT.
 - CURVE MUST BE PLOTTED TO SHOW DENSITY FROM A MINIMUM OF 90% COMPACTION AND ABOVE AS DETERMINED BY THE "MODIFIED AASHTO T-180 COMPACTION TEST" (A.S.T.M.-D-1157) OR FROM A MINIMUM OF 95% COMPACTION AND ABOVE AS DETERMINED BY THE "STANDARD PROCTOR TEST" AASHTO T-99, METHOD C (A.S.T.M.-D-998). PROCTOR TYPE MUST BE DESIGNATED ON DOCUMENT.
 - CURVE MUST HAVE AT LEAST 5 DENSITY POINTS WITH MOISTURE CONTENT AND SAMPLE LOCATIONS LISTED ON DOCUMENT.
 - SPECIFIC GRAVITY.
 - NATURAL MOISTURE CONTENT.
 - LIQUID LIMIT.
 - PLASTIC LIMIT.
 BE ADVISED THAT IF THIS INFORMATION IS NOT PROVIDED TO THE CITY'S CONSTRUCTION INSPECTOR, THE CITY WILL NOT ALLOW GRADING OR CONSTRUCTION ACTIVITIES TO PROCEED ON ANY PROJECT SITE.
- ALL FILL PLACED SHALL BE COMPACTED FROM THE BOTTOM OF THE FILL UP IN 8" LIFTS AND COMPACTED TO 90% MAXIMUM DENSITY AS DETERMINED BY MODIFIED AASHTO T-180 COMPACTION TEST OR 95% OF MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST AASHTO T-99. ENSURE THE MOISTURE CONTENT OF THE SOIL IN FILL AREAS CORRESPONDS TO THE COMPACTIVE EFFORT AS DEFINED BY THE STANDARD OR MODIFIED PROCTOR TEST. OPTIMUM MOISTURE CONTENT SHALL BE DETERMINED USING THE SAME TEST THAT WAS USED FOR COMPACTION. SOIL COMPACTION CURVES SHALL BE SUBMITTED TO THE CITY OF O'FALLON PRIOR TO THE PLACEMENT OF FILL. PROOF ROLLING MAY BE REQUIRED TO VERIFY SOIL STABILITY AT THE DISCRETION OF THE CITY OF O'FALLON.
- THE SURFACE OF THE FILL SHALL BE FINISHED SO IT WILL NOT IMPOUND WATER. IF AT THE END OF A DAYS WORK IT WOULD APPEAR THAT THERE MAY BE RAIN PRIOR TO THE NEXT WORKING DAY, THE SURFACE SHALL BE FINISHED SMOOTH. IF THE SURFACE HAS BEEN FINISHED SMOOTH FOR ANY REASON, IT SHALL BE SCARIFIED BEFORE PROCEEDING WITH THE PLACEMENT OF SUCCEEDING LIFTS. FILL SHALL NOT BE PLACED ON FROZEN GROUND, NOR SHALL FILLING OPERATIONS CONTINUE WHEN THE TEMPERATURE IS SUCH AS TO PERMIT THE LAYER UNDER PLACEMENT TO FREEZE.
- ALL SEDIMENT AND DETENTION BASINS ARE TO BE CONSTRUCTED DURING THE INITIAL PHASE OF THE GRADING OPERATION OR IN ACCORDANCE WITH THE APPROVED SWPPP.
- WHEN GRADING OPERATIONS ARE COMPLETE OR SUSPENDED FOR MORE THAN 14 DAYS, PERMANENT GRASS MUST BE ESTABLISHED AT SUFFICIENT DENSITY TO PROVIDE EROSION CONTROL ON SITE. BETWEEN PERMANENT GRASS SEEDING PERIODS, TEMPORARY COVER SHALL BE PROVIDED ACCORDING TO ST. CHARLES SOIL AND WATER CONSERVATION DISTRICT - MODEL SEDIMENT AND EROSION CONTROL REGULATIONS. ALL FINISHED GRADES (AREAS NOT TO BE DISTURBED BY IMPROVEMENTS) IN EXCESS OF 20% SLOPES (5:1) SHALL BE MULCHED AND TACKED AT A RATE OF 100 POUNDS PER 1000 SQUARE FEET W-HEN SEEDED.
- NO SLOPES SHALL EXCEED 3 (HORIZONTAL); 1 (VERTICAL) UNLESS OTHERWISE APPROVED BY THE SOILS REPORT AND SPECIFICALLY LOCATED ON THE PLANS AND APPROVED BY THE CITY ENGINEER.
- ALL LOW PLACES WHETHER ON SITE OR OFF SHALL BE GRADED TO PROVIDE DRAINAGE WITH TEMPORARY DITCHES.
- ANY EXISTING WELLS AND/OR SPRINGS WHICH MAY EXIST ON THE PROPERTY MUST BE SEALED IN A MANNER ACCEPTABLE TO THE CITY OF O'FALLON CONSTRUCTION INSPECTION DEPARTMENT AND FOLLOWING MISSOURI DEPARTMENT OF NATURAL RESOURCES STANDARDS AND SPECIFICATIONS. THERE ARE NO WELLS OR SPRINGS KNOWN TO EXIST ON THIS PROPERTY AT THIS TIME.
- SITE GRADING OUTSIDE OF CITY RIGHT-OF-WAY. MATERIAL IS TO BE PLACED IN EIGHT (8) INCH TO TWELVE (12) INCH LOOSE LIFTS AND COMPACTED PER THE APPROVED COMPACTION REQUIREMENTS. ONE (1) COMPACTION TEST WILL BE PERFORMED AT TWO (2) FOOT VERTICAL INTERVALS AND APPROXIMATELY EVERY ONE THOUSAND (1,000) CUBIC YARDS.

STORM SEWER NOTES:

- ALL STORM SEWER INSTALLATION IS TO BE IN ACCORDANCE WITH M.S.D. 2007 STANDARDS AND SPECIFICATIONS EXCEPT AS MODIFIED BY THE CITY OF O'FALLON ORDINANCES.
- BRICK SHALL NOT BE USED IN THE CONSTRUCTION OF STORM SEWER STRUCTURES. PRE CAST CONCRETE STRUCTURES ARE TO BE USED UNLESS OTHERWISE APPROVED BY THE CITY OF O'FALLON.
- ALL CONCRETE PIPES WILL BE INSTALLED WITH O-RING RUBBER TYPE GASKETS.
- CONNECTIONS AT ALL STORM STRUCTURES ARE TO BE MADE WITH A-LOCK JOINT OR EQUAL.
- ALL STORM SEWER SHALL BE REINFORCED CONCRETE PIPE OR H.D.P.E. PIPE. ALL STRUCTURES AND FLARED END SECTIONS MUST BE CONCRETE. MANUFACTURING SPECIFICATIONS MUST BE FOLLOWED AND DETAILS PROVIDED FOR THE INSTALLATION OF H.D.P.E. PIPE. H.D.P.E. PIPE WILL NOT BE ALLOWED FOR DETENTION BASIN OUTFLOWS, FINAL PIPE RUN TO DETENTION BASINS, CREEK DISCHARGE OR OTHER APPROVED MEANS.
- THE DISCHARGE POINT OF ALL FLARED END SECTIONS SHALL BE PROTECTED BY RIP RAP OR OTHER APPROVED MEANS.
- RIP RAP SHOWN AT FLARED END SECTIONS WILL BE EVALUATED IN THE FIELD BY THE ENGINEER, CONTRACTOR, AND CITY INSPECTORS AFTER INSTALLATION FOR EFFECTIVENESS AND FIELD MODIFIED, IF NECESSARY TO REDUCE EROSION ON AND OFF SITE.
- EXISTING INLET STONES THAT ARE CURRENTLY DAMAGED WITHIN THE VICINITY OF THE PROJECT SHALL BE REPLACED AS-NEEDED BY THE CONTRACTOR.

WATER NOTES:

- COORDINATE WITH THE WATER COMPANY ON THE LOCATION OF WATER METERS.
- PROVIDE WATER VALVES TO ISOLATE THE SYSTEM.
- ALL TOPS FOR VALVES, METERS, AND MANHOLES ARE TO BE CONSTRUCTED TO WITHIN 1 INCH (0.08") OF FINISH GRADE. GRADING AROUND STRUCTURE TOPS ON SLOPES NEED TO BE ACCOUNTED FOR.
- DISINFECTING:

DISINFECTING SHALL BE ACCOMPLISHED BY PLACING SUFFICIENT HYPO CHLORITE GRANULE (HTH) IN EACH SECTION OF PIPE TO ACHIEVE A CHLORINE RESIDUAL IN THE PIPELINE, UPON INITIAL FILLING, OF 50 MG/L (PPM). HT. TABLETS WILL NOT BE ALLOWED. FOLLOWING COMPLETION OF THE PIPELINE, IT SHALL BE SLOWLY FILLED WITH WATER AND A SAMPLE WILL BE TAKEN IMMEDIATELY AND THE CHLORINE RESIDUAL MUST BE 50 MG/L OR GREATER. THE SOLUTION SHALL BE ALLOWED TO STAND FOR 24 HOURS AND A SAMPLE SHALL THEN BE TAKEN. THE CHLORINE RESIDUAL AFTER 24 HOURS SHALL BE 30 MG/L OR GREATER. IF THE PIPING SHOWS INSUFFICIENT CHLORINE RESIDUALS IN EITHER TEST, THE PIPING SHALL BE RE-CHLORINATED BY THE INJECTION OF HYPO CHLORITE SOLUTION UNTIL SATISFACTORY RESULTS ARE ACHIEVED. ALL DISINFECTING SHALL BE DONE BY THE CONTRACTOR. ONLY THE TESTING TO DETERMINE THE CHLORINE RESIDUAL WILL BE DONE BY THE CITY.
- PRESSURE TESTING:

IMMEDIATELY FOLLOWING DISINFECTING, THE PIPING SHALL BE PUMPED TO A PRESSURE (AT THE LOWEST POINT IN THE PROJECT) OF 150 PSI OR HIGHER WHERE THE WORKING PRESSURE IS HIGHER THAN 150 PSI AS DETERMINED BY THE CITY. IN SUCH CASES, THE PRESSURE SHALL BE AS SPECIFIED BY THE CITY AND TWO PRESSURE TESTS SHALL BE CONDUCTED. THE FIRST TEST SHALL BE WITH THE FIRE HYDRANT AUXILIARY VALVE OPEN AND BE TO 150 PSI. THE SECOND TEST SHALL BE WITH THE FIRE HYDRANT AUXILIARY VALVE CLOSED AND BE TO THE HIGHER PRESSURE AS DIRECTED BY THE CITY. ALL PUMPING EQUIPMENT AND PRESSURE GAUGES SHALL BE PROVIDED BY THE CONTRACTOR. AFTER ACHIEVING THE TEST PRESSURE, THE PIPING SHALL BE LEFT CLOSED FOR A PERIOD OF TWO (2) HOURS. AT THE END OF THIS TIME THE PRESSURE DROP SHALL NOT EXCEED 2 PSI. IN ADDITION, IF THE PRESSURE APPEARS, IN JUDGMENT OF THE CITY'S REPRESENTATIVE, TO BE CONTINUING TO DROP, THE TEST SHALL BE CONTINUED FOR ANOTHER TWO (2) HOURS AND IF ANY FURTHER DROPS OCCUR, THE TEST SHALL BE CONSIDERED A FAILURE. IF THE PRESSURE TEST FAILS, THE CONTRACTOR WILL BE REQUIRED TO FIND AND CORRECT THE SOURCE OF THE LEAKAGE. IF THIS REQUIRES DRAINING OF THE PIPELINE, WHEN THE LEAKAGE IS CORRECTED, THE PIPELINE MUST BE RE-DISINFECTED AND THE PRESSURE TESTED AGAIN UNTIL SATISFACTORY RESULT ARE ACHIEVED. ANY MDRN REQUIRED DECHLORINATION WILL BE PERFORMED BY THE CONTRACTOR.
- BACTERIOLOGICAL TESTING:

AFTER SATISFACTORY DISINFECTING AND PRESSURE TESTING, A SAMPLE SHALL BE TAKEN BY THE CONTRACTOR IN THE PRESENCE OF A CITY REPRESENTATIVE AND SUBMITTED TO A LABORATORY APPROVED BY THE MISSOURI DEPARTMENT OF NATURAL RESOURCES AND THE CITY FOR BACTERIOLOGICAL ANALYSIS. AFTER 24 HOURS, A SECOND SAMPLE SHALL BE TAKEN IN A LIKE MANNER AND SUBMITTED FOR ANALYSIS. THE TWO SAMPLES TAKEN ON CONSECUTIVE DAYS, A MINIMUM OF 24 HOURS APART, MUST BE FOUND TO BE "SAFE" BY THE TESTING LABORATORY, AND COPIES OF THE TEST RESULTS MUST BE SUPPLIED TO THE CITY. IF THE SAMPLES ARE NOT FOUND TO BE "SAFE" FURTHER FLUSHING AND/OR DISINFECTING AS DIRECTED BY THE CITY SHALL BE CONDUCTED BY THE CONTRACTOR UNTIL "SAFE" SAMPLES ON TWO CONSECUTIVE TEST DAYS ARE ACHIEVED. FOLLOWING SUCCESSFUL BACTERIOLOGICAL TESTING AND A DETERMINATION BY THE CITY THAT THE SAMPLES ARE "SAFE", THE MAINS MAY BE PLACED INTO SERVICE.

ROADWAY NOTES:

- ALL PAVING (PUBLIC AND PRIVATE) TO BE IN ACCORDANCE WITH 2006 ST. CHARLES COUNTY STANDARDS AND SPECIFICATIONS EXCEPT AS MODIFIED BY THE CITY OF O'FALLON ORDINANCES.
- TYPE C (BP-1) COMPACTION REQUIREMENTS SHALL BE 98% MINIMUM DENSITY ACCORDING TO ST. CHARLES CO. STANDARD SPECIFICATIONS.
- MATERIAL TESTING AND FREQUENCY. MATERIALS FOR CONSTRUCTION SHALL BE TESTED AND INSPECTED PER THE APPROPRIATE ASTM CODE OR AT THE CITY ENGINEER'S DISCRETION. THE DEVELOPER'S ENGINEER SHALL PERFORM THE FOLLOWING QUALITY CONTROL GUIDELINES:
 - CONCRETE.
 - CYLINDERS/COMPRESSIVE STRENGTH. ONE (1) SET OF FOUR (4) CYLINDERS WITHIN THE FIRST FIFTY (50) CUBIC YARDS AND ONE (1) SET PER ONE HUNDRED (100) CUBIC YARDS THEREAFTER. ONE (1) CYLINDER MUST BE TESTED AT SEVEN (7) DAYS, ONE (1) AT FOURTEEN (14) DAYS AND TWO (2) AT TWENTY-EIGHT (28) DAYS. IF THE FIRST (1ST) CYLINDER DOES NOT MEET SPECIFICATIONS AT TWENTY-EIGHT (28) DAYS, THEN THE SECOND (2ND) CYLINDER MUST BE HELD AND TESTED AT DAY FIFTY-SIX (56).
 - PERCENT AIR AND TEMPERATURE. FIRST (1ST) TRUCK BATCH EACH DAY AND TWO (2) THEREAFTER UNTIL A CONSISTENCY IS ENCOUNTERED. ONCE A CONSISTENCY IS ENCOUNTERED, THEN TESTS WILL BE PERFORMED IN CONJUNCTION WITH THE CONCRETE CYLINDERS.
 - SLUMP. FIRST (1ST) TRUCK BATCH EACH DAY AND TWO (2) THEREAFTER UNTIL A CONSISTENCY IS ENCOUNTERED. ONCE A CONSISTENCY IS ENCOUNTERED, THEN TESTS WILL BE PERFORMED IN CONJUNCTION WITH THE CONCRETE CYLINDERS.
 - SUB GRADE AND BASE.
 - PROOF ROLL AS DESCRIBED IN SECTION 405.210(B).
 - ONE (1) COMPACTION TEST PER TWO HUNDRED FIFTY (250) FEET OF MAINLINE PAVING.
 - GRADATION TEST FOR SUB BASE MATERIAL.
 - ASPHALT.
 - ONE (1) SET OF COMPACTION TESTS PER TWO HUNDRED FIFTY (250) FEET OF MAINLINE.
 - ONE (1) BULK DENSITY TEST PER PAVING OPERATION.
- APPROVAL OF SUB GRADE AND BASE (SUB BASE). THE CITY ENGINEER OR REPRESENTATIVE SHALL APPROVE THE SUB GRADE BEFORE ANY BASE IS PLACED THEREON AND SHALL APPROVE THE BASE BEFORE CONCRETE OR SURFACE COURSE IS PLACED. THE SUB GRADE AND BASE SHALL BE SO CONSTRUCTED THAT IT WILL BE UNIFORM IN DENSITY THROUGHOUT.
- IN ALL FILL AREAS IN THE ROADWAYS, SOIL TESTS SHALL BE SUBMITTED AND APPROVED BY THE CITY ENGINEER FOR EACH FOOT OF FILL AND AT LEAST ONE (1) TEST AND AN AVERAGE OF ONE (1) TEST WITHIN EVERY TWO HUNDRED FIFTY (250) FEET.
- NO TRAFFIC WILL BE ALLOWED ON NEW CONCRETE PAVEMENT UNTIL IT HAS CURED FOR SEVEN (7) DAYS AND IT REACHES THREE THOUSAND FIVE HUNDRED (3,500) PSI WITHIN 28 DAYS. CONCRETE PAVEMENTS SHALL NOT BE APPROVED UNLESS IT REACHES A STRENGTH OF FOUR THOUSAND (4,000) PSI.
- PRIOR TO PLACEMENT OF AGGREGATE BASE MATERIAL ON SUB GRADE AND PRIOR TO PLACEMENT OF PAVEMENT ON BASE MATERIAL, THE SUB GRADE AND BASE MUST BE PROOF-ROLLED WITH A FULLY LOADED (TEN (10) TON LOAD) TANDEM TRUCK OR EQUIVALENT TIRE VEHICLE WITH ONE (1) PASS DOWN EACH DRIVING LANE NO FASTER THAN THREE (3) MILES PER HOUR. IF SOFT SPOTS ARE DETECTED, OR PUMPING, RUTTING OR HEAVING OCCURS GREATER THAN ONE (1) INCH AT THE SUB GRADE, THE ROADBED SHALL BE CONSIDERED UNSATISFACTORY AND THE SOIL IN THESE AREAS SHALL BE REMEDIATED TO THE DEPTH INDICATED BY THE CONTRACTOR'S TESTING FIRM AND APPROVED BY A REPRESENTATIVE OF THE CITY ENGINEER.
- SUB GRADE AND BASE BENEATH PAVEMENTS SHALL BE COMPACTED TO ST. CHARLES COUNTY HIGHWAY DEPARTMENT SPECIFICATIONS. THE MOISTURE RANGE SHALL BE DETERMINED BY THE STANDARD OR MODIFIED PROCTOR DENSITY METHOD AASHTO T-99 AND WITHIN -2/+4 PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT.
- THE ENTIRE WIDTH AND LENGTH WILL CONFORM TO LINE, GRADE AND CROSS SECTION SHOWN ON THE PLANS OR AS ESTABLISHED BY THE ENGINEER. IF ANY SETTLING OR WASHING OCCURS, OR WHERE HAULING RESULTS IN RUTS OR OTHER OBJECTIONABLE IRREGULARITIES, THE CONTRACTOR SHALL IMPROVE THE SUB GRADE OR BASE TO THE SATISFACTION OF THE CITY BEFORE THE PAVEMENT IS PLACED. ADDITIONAL ROLLING OR METHODS TO VERIFY COMPACTION SHALL BE AT THE DISCRETION OF THE CITY ENGINEER. TOLERANCE ALLOWED ON ALL LINES, GRADES AND CROSS SECTIONS SHALL BE PLUS OR MINUS FOUR-HUNDREDS (+0.04) FEET.
- UTILITY WORK PRIOR TO BASE CONSTRUCTION. NO BASE COURSE WORK MAY PROCEED ON ANY STREET UNTIL ALL UTILITY EXCAVATIONS (STORM AND SANITARY SEWERS, WATER, GAS, ELECTRIC, ETC.) HAVE BEEN PROPERLY BACK FILLED WITH GRANULAR MATERIAL, CRUSHED STONE OR GRAVEL MECHANICALLY TAMPED IN TEN (10) INCH LIFTS. UTILITIES INSTALLED AFTER SUB GRADE PREPARATION SHALL BE BORED. COMPACTION REQUIREMENTS SHALL FOLLOW ST. CHARLES COUNTY STANDARDS (2006).
- ALL PERMANENT TRAFFIC CONTROL WILL BE PER M.U.T.C.D. OR MODOT STANDARDS
- ALL SIGN POST, BACKS AND BRACKET ARMS SHALL BE PAINTED BLACK USING CARBOLINE RUST BOND PENETRATING SEALER SG AND CARBOLINE 133 HB PAINT (OR EQUIVALENT AS APPROVED BY CITY OF O'FALLON AND MODOT).

SURVEY NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT THE SURVEY COMPANY WHICH ESTABLISHED THE PROJECT CONTROL (KUHLMANN DESIGN GROUP, INC (314-434-8988)) AND CONFIRM THAT THE CONTROL POINTS DESCRIBED ON THIS DRAWING ARE THE MOST UPDATED AND BEST INFORMATION. (SURVEY COMPANY MAY ESTABLISH IMPROVED PROJECT CONTROL AT A LATER DATE.) CONTRACTOR SHALL USE THE BEST CONTROL BASED ON SURVEYOR'S RECOMMENDATIONS.
- THE CONTRACTOR SHALL ALSO BE RESPONSIBLE TO FIELD VERIFY THE SURVEY CONTROL POINTS AND THE DESIGN COORDINATES SHOWN IN THESE PLANS. FIELD VERIFICATIONS SHALL INCLUDE CONFIRMING THAT THE DESIGN COORDINATES WILL PLACE THE PROPOSED IMPROVEMENTS ACCURATELY TO THE INTENDED PLAN LOCATIONS AND IN RELATION TO THE PROPERTY LINES AND THE BASIS OF BEARING.
- IF ANY ERRORS, DISCREPANCIES, OR OTHERWISE CONCERNS ARISE PERTAINING TO THE ACCURACY OF THE DESIGN COORDINATES OR CONSTRUCTION STAKING/SURVEYS, THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE PROJECT SUPERINTENDENT AND THE ENGINEER FOR RESOLUTION PRIOR TO BEGINNING OR CONTINUING CONSTRUCTION.
- ALL CONSTRUCTION STAKING SHALL BE "TO GROUND" AND NOT "TO GRID" FOR REAL DISTANCES. THE CONSTRUCTION STAKING CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS OF THE KUHLMANN DESIGN GROUP, INC REGARDING TRANSLATIONS BETWEEN GRID AND GROUND. (THIS CONCERN IS MENTIONED SINCE THE HORIZONTAL DATUM FROM KUHLMANN'S DESIGN GROUP, INC REFERENCES STATE PLANE, WHICH IS A GRID SYSTEM.)
- THE CONSTRUCTION STAKING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS, DAMAGES, AND COSTS DUE TO FAULTY CONSTRUCTION STAKING RESULTING FROM INSUFFICIENT FIELD VERIFICATIONS OF THE SURVEY DATUMS, CONTROL, AND DESIGN COORDINATES.

UTILITY CONTACTS

SANITARY SEWERS
CITY OF O'FALLON
100 N. MAIN ST.
O'FALLON, MO. 63366
CONTACT: 636-281-2858

WATER
CITY OF O'FALLON
100 N. MAIN ST.
O'FALLON, MO. 63366
CONTACT: 636-261-2858

STORM SEWER
CITY OF O'FALLON
100 N. MAIN ST.
O'FALLON, MO. 63366
636-281-2858

ELECTRIC
AMEREN UE
200 CALLAHAN ROAD
WENTZVILLE, MO. 63385
636-639-8312

GAS
LACLEDE GAS COMPANY
6400 GRAHAM ROAD
ST. LOUIS, MO. 63134
314-522-2297

TELEPHONE
CENTURY TEL
1151 CENTURY TEL DR.
WENTZVILLE, MO. 63385
636-332-7261

FIRE DISTRICT
O'FALLON FIRE PROTECTION DISTRICT
119 E. ELM ST.
O'FALLON, MO. 63366
636-272-3493

* CITY OF O'FALLON CONSTRUCTION WORK HOURS PER CITY ORDINANCE 3429 AS SHOWN IN SECTION 500.420 OF THE MUNICIPAL CODE OF THE CITY OF O'FALLON ARE AS FOLLOWS:

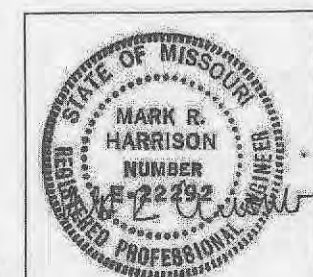
OCTOBER 1 THROUGH MAY 31
7:00 A.M. TO 7:00 P.M. MONDAY THROUGH SUNDAY

JUNE 1 THROUGH SEPTEMBER 30
6:00 A.M. TO 8:00 P.M. MONDAY THROUGH FRIDAY
7:00 A.M. TO 8:00 P.M. SATURDAY AND SUNDAY

CONSTRUCTION WORK TO BE DONE OUTSIDE OF THESE HOURS REQUIRES PRIOR WRITTEN APPROVAL FROM THE CITY ADMINISTRATOR OR CITY ENGINEER.

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"RECORD DRAWINGS"



BMCD# 77051
Mark R. Harrison
Professional Engineer
#22292

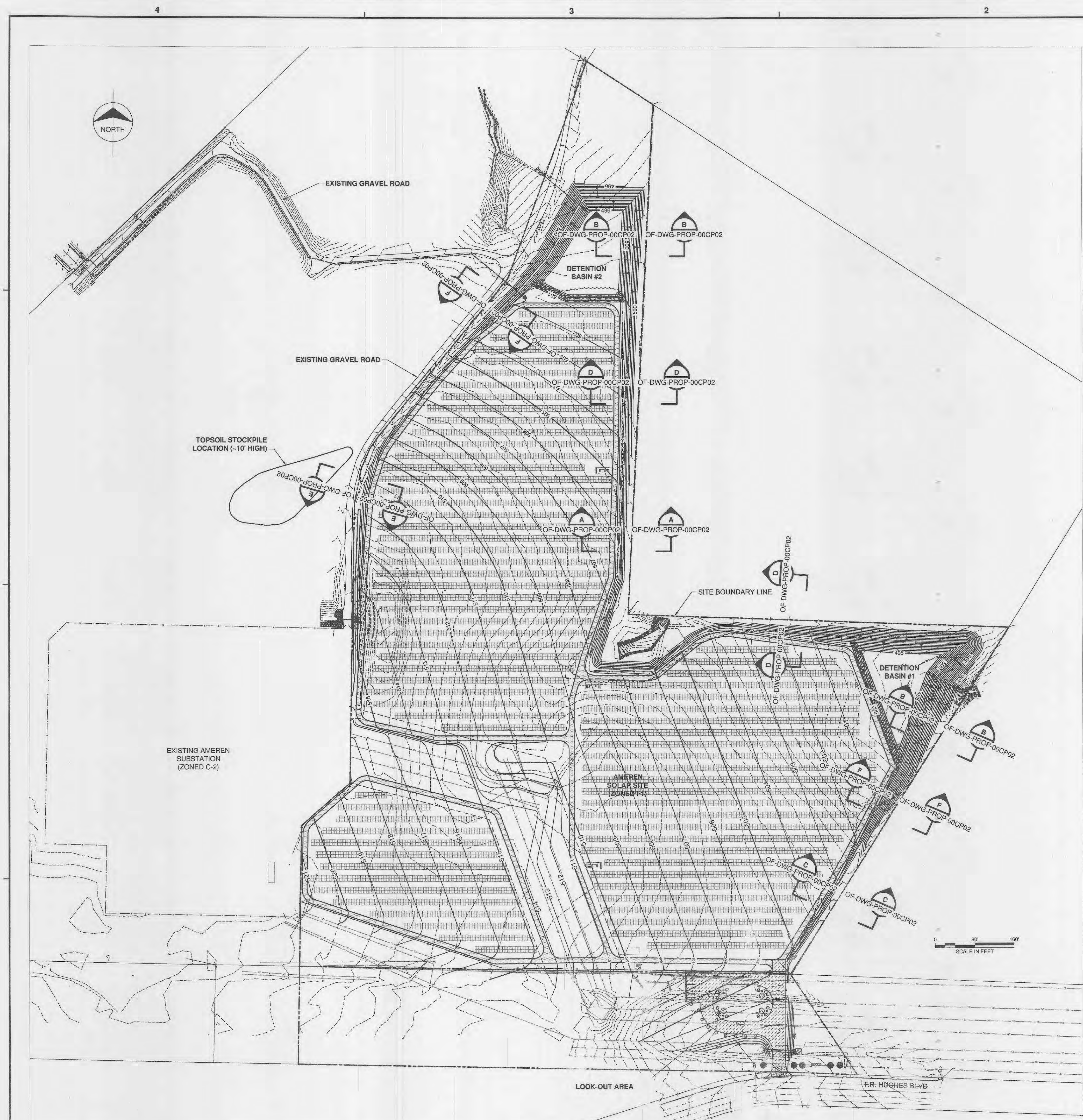
REV	PROJ ID	DATE	DRWN	RWN	APPR

COMMERCIAL CONSTRUCTION GENERAL NOTES

O'FALLON RENEWABLE ENERGY CENTER

OF-DWG-PROP-00CP00

REV 0



GENERAL NOTES:

- THE FOLLOWING STANDARD SPECIFICATIONS SHALL BE ADHERED TO DURING CONSTRUCTION. THE MOST STRINGENT OF WHICH SHOULD BE FOLLOWED IF ANY CONFLICT IS NOTED BETWEEN THEM.
 - THE CITY OF FALLON, MISSOURI DEVELOPMENT CODE, ORDINANCES AND COMMERCIAL CONSTRUCTION REQUIREMENTS.
 - THE BELLEAU SUBSTATION CONTRACT SPECIFICATION "POS-SPEC-000139" REVISION NO. 3 DATED NOVEMBER 11, 2013.
 - THE MISSOURI (MoDOT) STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION MANUAL DATED 2011.
 - THE PROJECT SPECIFIC STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED BY BURNS & McDONNELL ENGINEERING COMPANY, INC DATED JUNE 2014.
 - THE PROJECT SPECIFIC GEOTECHNICAL REPORT PREPARED BY TERRACON CONSULTANTS, INC DATED MARCH 19, 2014
- THIS SITE HAS BEEN DETERMINED TO BE IN ZONE X (UNSHADED) OUTSIDE THE 500-YEAR FLOOD PLAIN PER FEMA FLOOD INSURANCE RATE MAP NUMBER 29183C0235 E (PANEL 235 OF 525), DATED AUGUST 2, 1996.
- STORM WATER DETENTION TO BE PROVIDED FOR THE 100 YEAR 20 MINUTE STORM.
- SITE PREPARATION AND TREE REMOVAL SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 02220 - EARTHWORK OF THE BELLEAU SUBSTATION CONTRACT SPECIFICATION "POS-SPEC-000139".
- SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE PROJECT SPECIFIC STORM WATER POLLUTION PREVENTION PLAN (SWPPP). ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE BASINS DURING CONSTRUCTION ONCE THEY ARE 50% FULL. SILT MONITORING POSTS SHALL BE INSTALLED IN EACH BASIN AND BE MARKED WITH THE MAXIMUM PERMISSIBLE LEVEL OF SEDIMENT OF ELEV 497.5 FOR BASIN #1 AND ELEV 498.5 FOR BASIN #2.
- SITE GRADING AND COMPACTION SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 02220 - EARTHWORK OF THE BELLEAU SUBSTATION CONTRACT SPECIFICATION "POS-SPEC-000139" AS WELL AS THE RECOMMENDATIONS IN THE SITE SPECIFIC GEOTECHNICAL REPORT.
- THE ENTIRE SITE WITHIN THE FENCE LIMITS WILL BE COVERED WITH 6" OF MoDOT TYPE 5 AGGREGATE BASE ROCK OVER GEOTEXTILE FABRIC UNLESS NOTED OTHERWISE ON THE PLANS.
- TYPE 5 AGGREGATE YARD BASE ROCK & TYPE 1 AGGREGATE ROAD BASE ROCK SHALL BE CONSTRUCTED IN ACCORDANCE WITH MoDOT STANDARD SPECIFICATION SECTION 304.
- GEOTEXTILE FABRIC SHALL BE INSTALLED BENEATH ROCK IN ACCORDANCE WITH MoDOT STANDARD SPECIFICATION SECTION 1011.
- BITUMINOUS ASPHALT PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH MoDOT STANDARD SPECIFICATION SECTION 401.
- CONCRETE PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 03311 - CAST IN PLACE CONCRETE OF THE BELLEAU SUBSTATION CONTRACT SPECIFICATION "POS-SPEC-000139". ALL NON-REINFORCED CONCRETE SHALL BE 4000 PSI AT 28 DAYS.
- ROCK LINED DITCHES SHALL BE CONSTRUCTED USING TYPE 2 ROCK DITCH LINER IN ACCORDANCE WITH MoDOT STANDARD SPECIFICATION SECTION 609.60.
- DETENTION BASIN ROCK BLANKET SLOPE PROTECTION SHALL BE CONSTRUCTED USING TYPE 2 ROCK BLANKET IN ACCORDANCE WITH MoDOT STANDARD SPECIFICATION SECTION 611.30.
- ROCK LINING FOR CULVERT OUTLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH MoDOT STANDARD SPECIFICATION SECTION 609.70 USING TYPE 2 ROCK BLANKET MATERIAL AND SHALL BE SIZED IN ACCORDANCE WITH MoDOT STANDARD DETAIL 609.70C.
- REINFORCED CONCRETE PIPE CULVERTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH MoDOT STANDARD SPECIFICATION SECTION 726 AND MoDOT STANDARD DETAIL 726.30H. PRECAST CONCRETE FLARED END SECTIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH MoDOT STANDARD DETAIL 732.00P USING TOE WALLS AT BOTH THE UPSTREAM AND DOWNSTREAM ENDS. THE UPSTREAM TOE WALLS SHALL BE 24" DEEP AND THE DOWNSTREAM TOE WALLS SHALL BE 36" DEEP.
- SITE PERIMETER FENCE SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 02831 - SECURITY FENCE AND GATES OF THE BELLEAU SUBSTATION CONTRACT SPECIFICATION "POS-SPEC-000139".
- AREAS TO BE SEEDED AND FERTILIZED AS SHOWN ON THE PLANS SHALL BE CONSTRUCTED IN ACCORDANCE WITH MoDOT STANDARD SPECIFICATION SECTION 805 & 801 USING THE FOLLOWING MIXTURES:

SEED:	
TALL FESCUE	100 LB/ACRE
PERENNIAL RYEGRASS	50 LB/ACRE
RED FESCUE	40 LB/ACRE
RED TOP	10 LB/ACRE
FERTILIZER:	
NITROGEN NUTRIENTS	90 LB/ACRE
PHOSPHOROUS NUTRIENTS	90 LB/ACRE
POTASSIUM NUTRIENTS	90 LB/ACRE

PLANTING TIMES SHALL BE MARCH 1 TO JUNE 1 AND AUGUST 1 TO NOVEMBER 15.
- EROSION CONTROL BLANKETS BE INSTALLED ON ALL SEEDED SLOPES 3:1 OR GREATER IN ACCORDANCE WITH SECTION 3.3.3 OF THE PROJECT SPECIFIC STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
- MULCH SHALL BE APPLIED ON ALL SEEDED SLOPES FLATTER THAN 3:1 IN ACCORDANCE WITH MoDOT STANDARD SPECIFICATION SECTION 805.
- PAVEMENT MARKINGS SHALL CONSIST OF YELLOW ACRYLIC WATERBORNE PAINT. PAINT SHALL BE APPLIED AT A THICKNESS OF 15 MILS AND IN ACCORDANCE WITH APPLICABLE CONSTRUCTION REQUIREMENTS OF MoDOT STANDARD SPECIFICATION SECTION 620. RETROREFLECTIVITY AND GLASS BEADS ARE NOT REQUIRED.
- ALL SIGNAGE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MANUAL ON URBAN TRAFFIC CONTROL DEVICES (MUTCD) 2009 EDITION WITH REVISIONS NUMBERS 1 & 2 INCORPORATED DATED MAY 2012.
- SEE DRAWINGS OF-DWG-PROP-00CP17, OF-DWG-PROP-00CP18, AND OF-DWG-PROP-00CP19 FOR AS-BUILT SURVEY POINT INFORMATION.

LEGEND

	TREE REMOVAL LIMITS
	ASPHALT SITE ACCESS ROAD
	CONCRETE SITE ENTRANCE
	TYPE 5 ROCK SURFACE
	ROCK LINED DITCH
	ROCK BLANKET
	SEEDING LIMITS
	DETENTION BASIN BIORETENTION
	PERIMETER FENCE
	DITCH LINE
	SILT FENCE
	EXISTING OVERHEAD ELECTRIC
	WATER LINE
	YARD HYDRANT
	POWER POLE
	LIGHT POLE
	ADA ACCESSIBLE PARKING
	PARKING STALL
	FLARED END SECTION
	TEMPORARY EROSION CONTROL LOG

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"RECORD DRAWINGS"

REV	PROJ ID	DATE	DRWN	RVW	APPD

BMOCD# 77051
 Mark R. Harrison
 Professional Engineer
 #E-22292

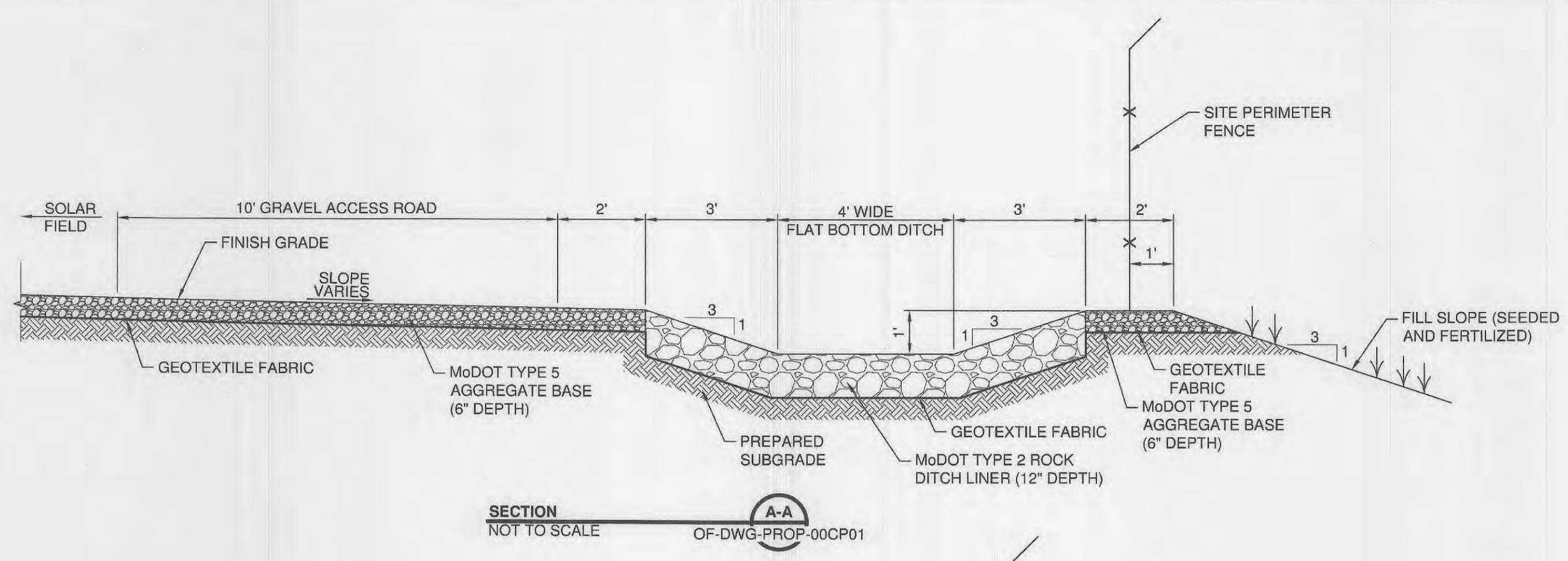
SITE ORIENTATION PLAN & GENERAL NOTES

OFALLON RENEWABLE ENERGY CENTER

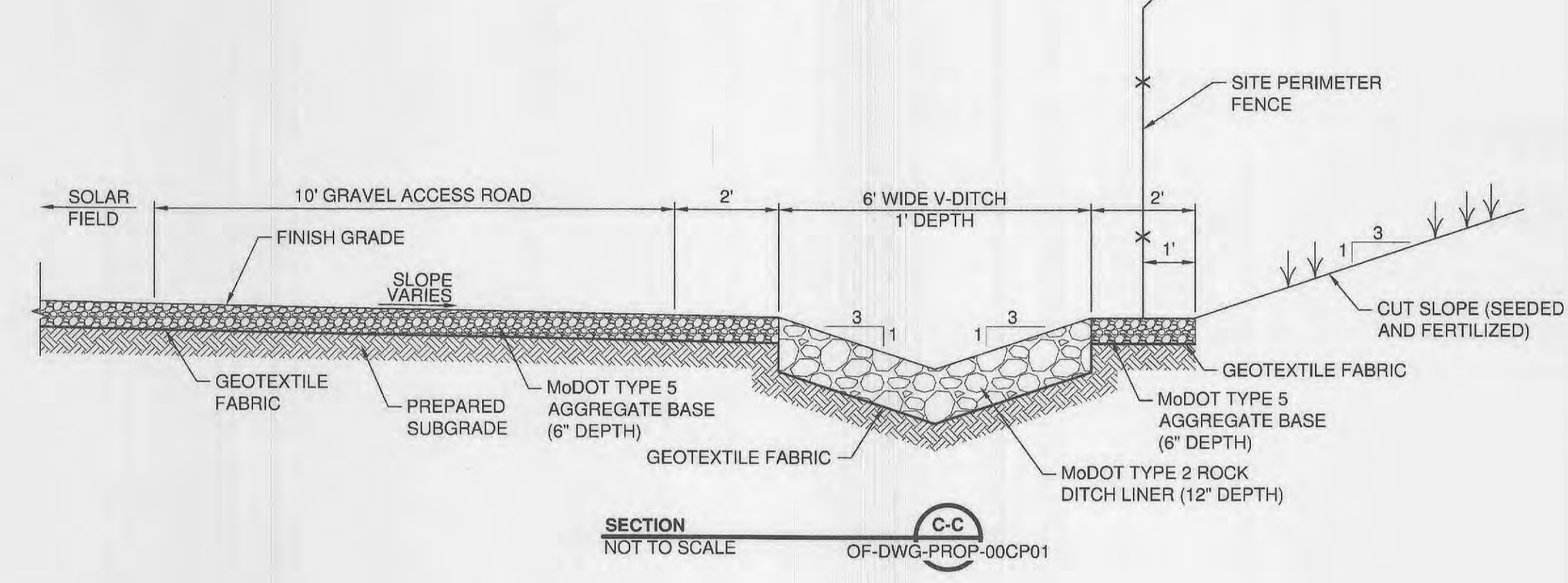
OF-DWG-PROP-00CP01

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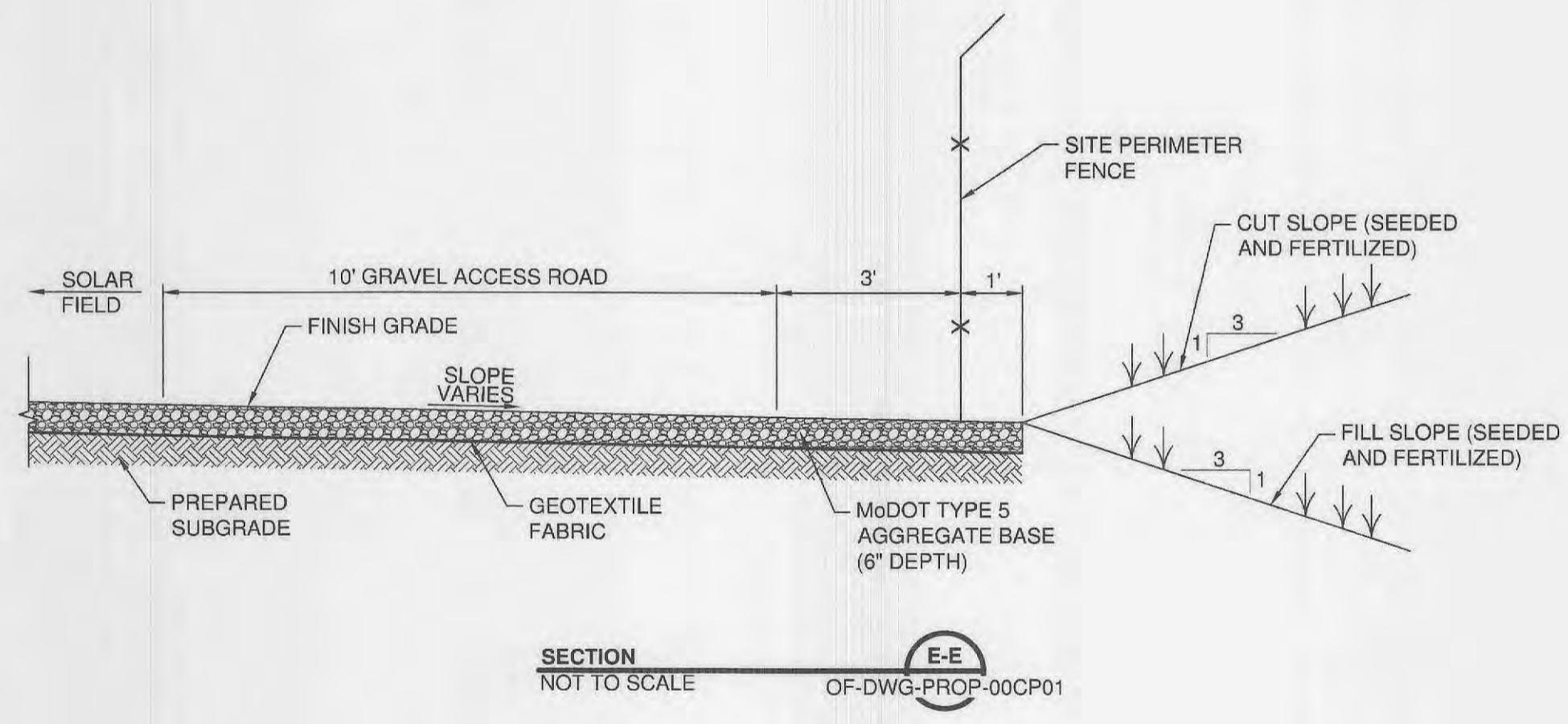
SITE ORIENTATION PLAN



SECTION A-A OF DWG-PROP-00CP01
NOT TO SCALE

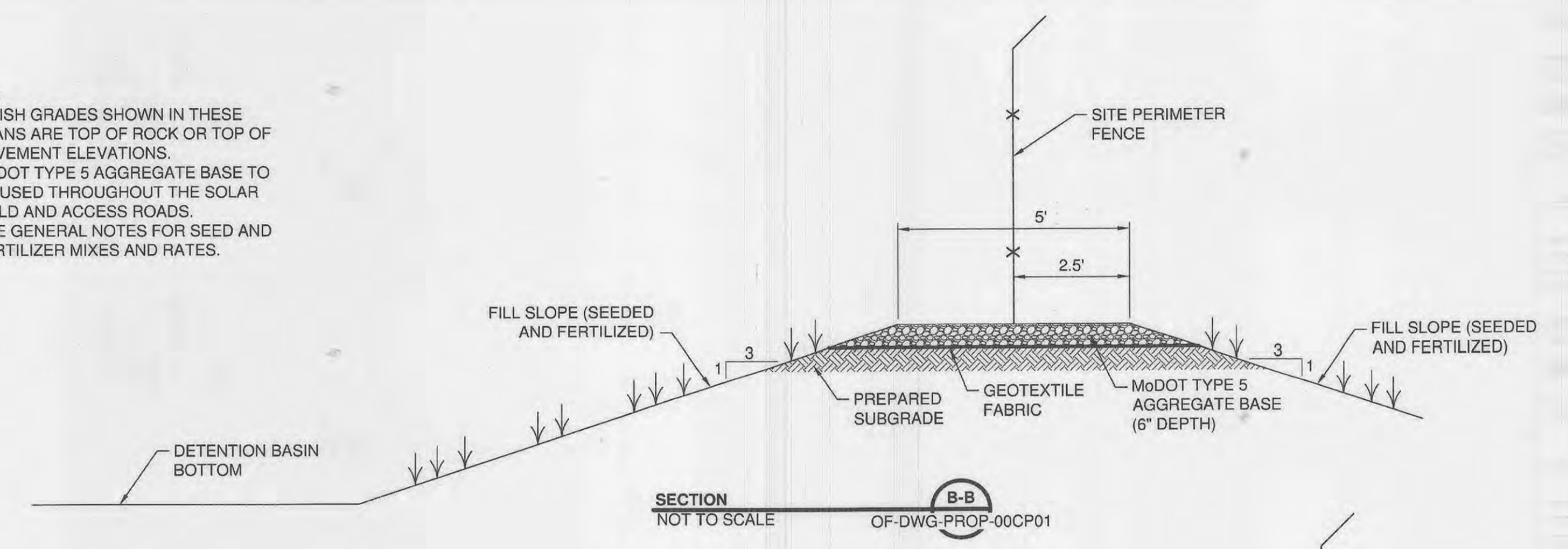


SECTION C-C OF DWG-PROP-00CP01
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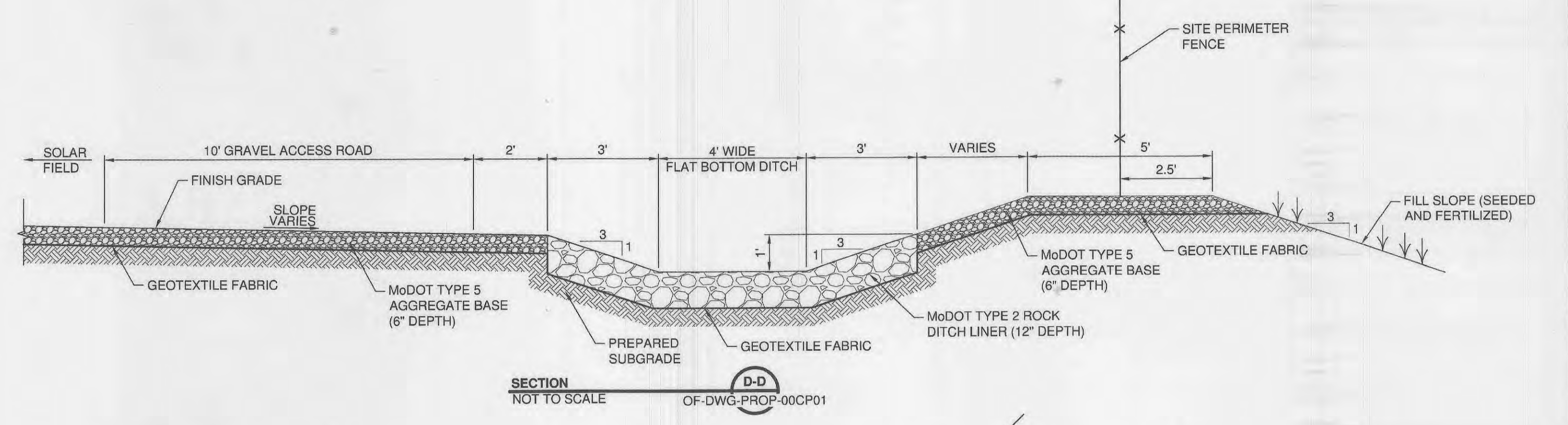


SECTION E-E OF DWG-PROP-00CP01
NOT TO SCALE

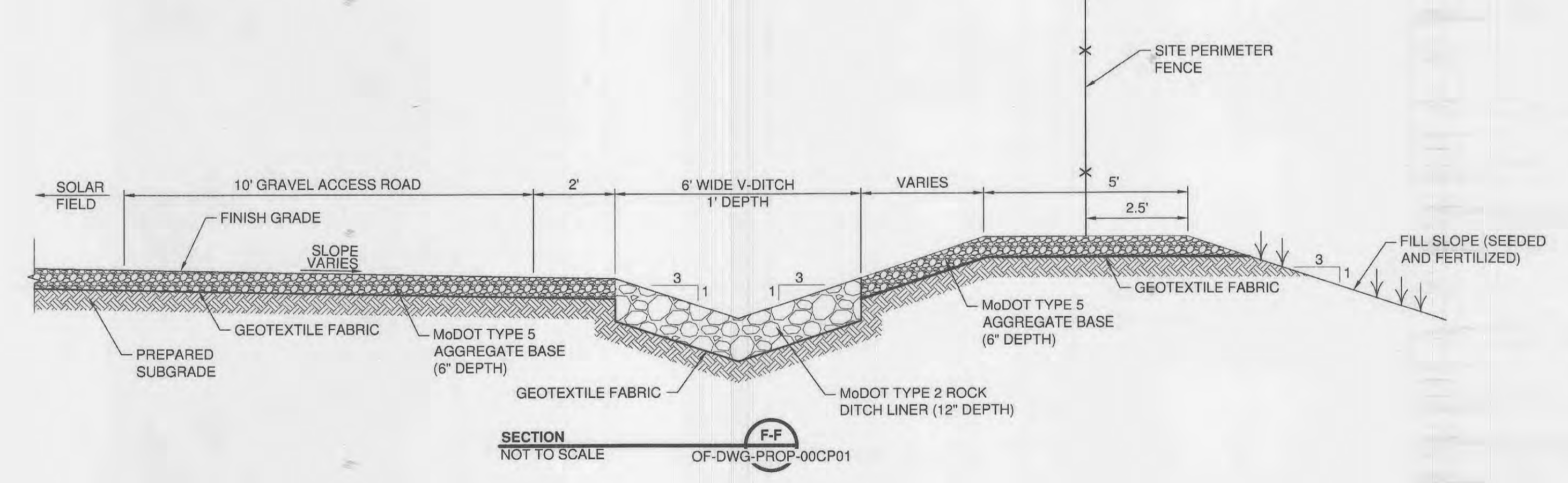
- NOTES:
1. FINISH GRADES SHOWN IN THESE PLANS ARE TOP OF ROCK OR TOP OF PAVEMENT ELEVATIONS.
 2. MoDOT TYPE 5 AGGREGATE BASE TO BE USED THROUGHOUT THE SOLAR FIELD AND ACCESS ROADS.
 3. SEE GENERAL NOTES FOR SEED AND FERTILIZER MIXES AND RATES.



SECTION B-B OF DWG-PROP-00CP01
NOT TO SCALE



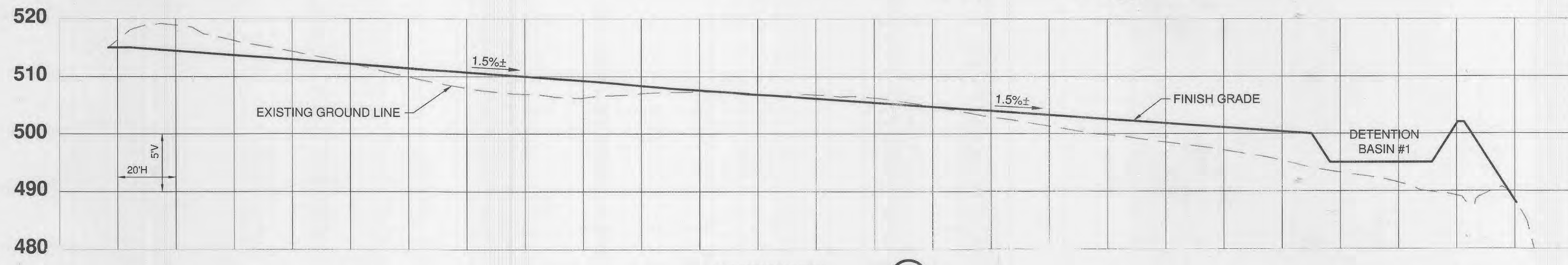
SECTION D-D OF DWG-PROP-00CP01
NOT TO SCALE



SECTION F-F OF DWG-PROP-00CP01
NOT TO SCALE



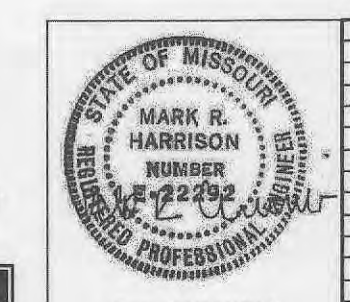
SITE CROSS SECTION B-B OF DWG-PROP-00CP03
NOT TO SCALE



SITE CROSS SECTION A-A OF DWG-PROP-00CP03
NOT TO SCALE

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"RECORD DRAWINGS"



Burns & McDonnell
SINCE 1878

Date: 03/31/2015
Mark R. Harrison
Professional Engineer
#E-22292

REV	PROJ ID	DATE	ORGN	RVM	APPD

TYPICAL SECTIONS

O'FALLON RENEWABLE ENERGY CENTER

OF-DWG-PROP-00CP02

REV 0

Ameren



CIVIL GRADING PLAN
 0 60 120
 SCALE IN FEET

TREE CLEARING NOTE:
 TREE PRESERVATION REQUIREMENTS PER THE CITY OF O'FALLON DEVELOPMENT CODE SECTION 402.040 REQUIRE A MINIMUM OF 20% OF THE EXISTING TREES TO BE RETAINED. APPROXIMATELY 174 OF THE ESTIMATED 539 TREES (OR 32.3%) WERE CALCULATED TO REMAIN ON THIS SITE.

FENCE POST COORDINATE TABLE		
POINT	NORTHING	EASTING
1	1089418.19	769338.09
2	1089553.49	768930.37
3	1090109.35	769050.50

NOTE:
 COORDINATES SHOWN ARE APPROXIMATE POST LOCATIONS BASED ON THE DESIGN PLAN. ACTUAL POST LOCATIONS SHOULD BE FIELD ADJUSTED TO MATCH THE TYPICAL SECTIONS SHOWN ON SHEET OF-DWG-PROP-00CP02 BASED ON THE ACTUAL CONSTRUCTION CONDITIONS.

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"RECORD DRAWINGS"



BMCD# 77051
 Burns & McDonnell
 SINCE 1898

Date: 03/31/2015
 Mark R. Harrison
 Professional Engineer
 #E-22292

REV	PROJ ID	DATE	DRWN	RW	APPR
1					
2					
3					
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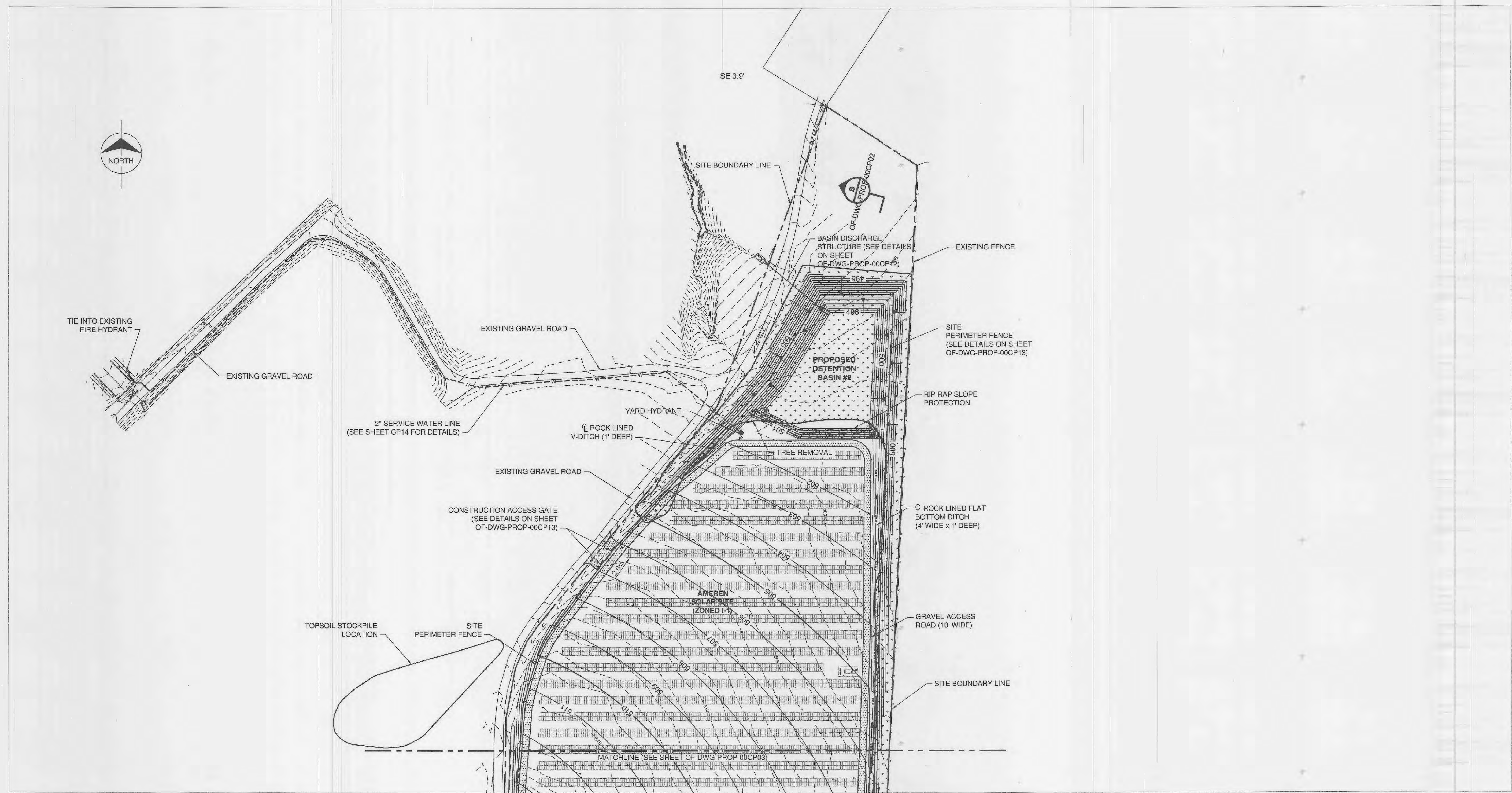
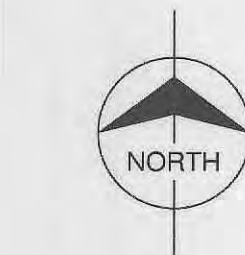
CIVIL GRADING PLAN

O'FALLON RENEWABLE ENERGY CENTER

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OF-DWG-PROP-00CP03

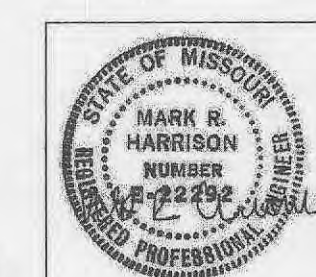
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CIVIL GRADING PLAN
 0 60 120
 SCALE IN FEET

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"RECORD DRAWINGS"



BMCD# 77051
 420 S. WINDY MEADOW
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 314.480.1900

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 SINCE 1922

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 Mark R. Harrison
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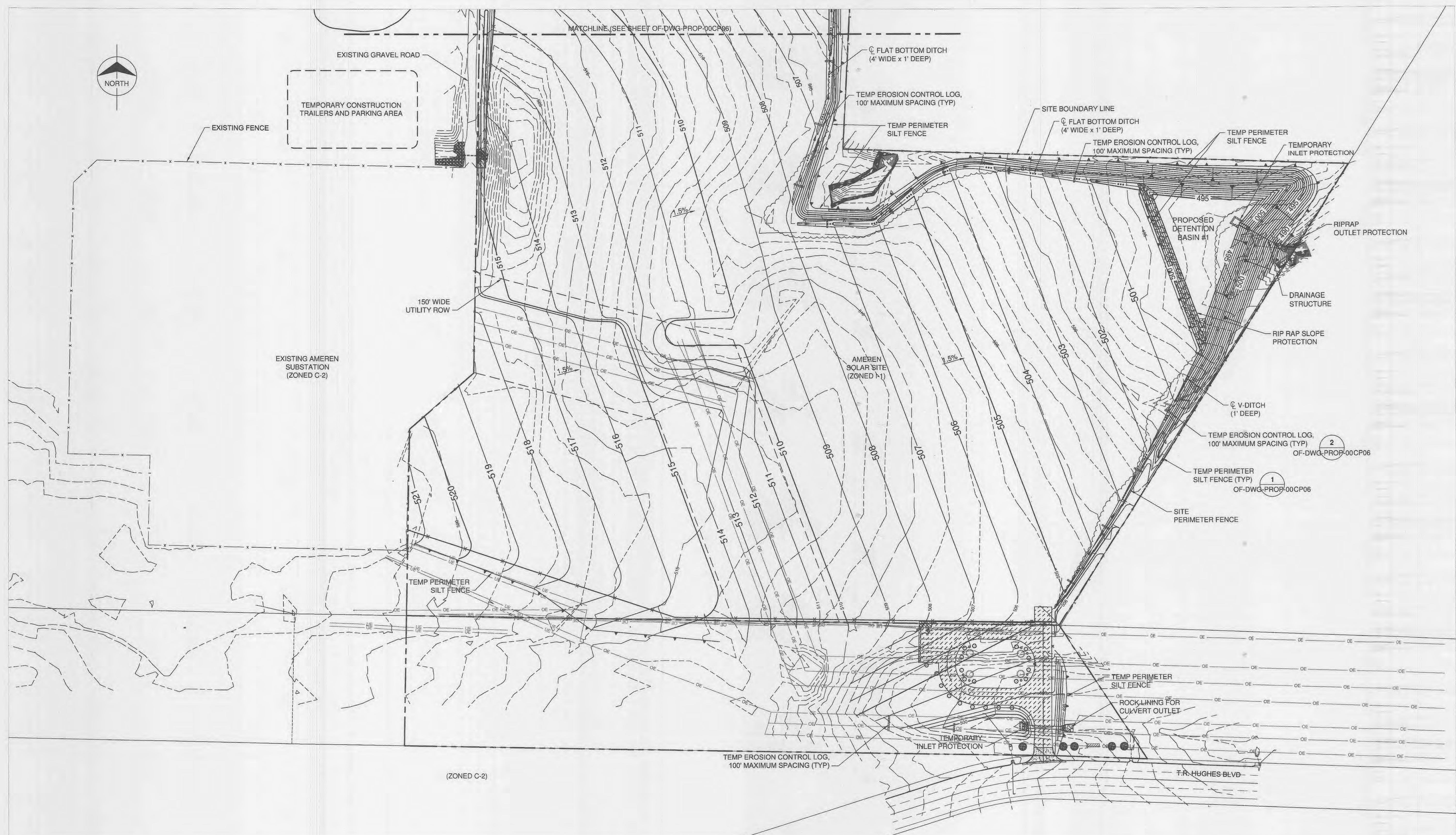
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CIVIL GRADING PLAN

O'FALLON RENEWABLE ENERGY CENTER

Ameren OF-DWG-PROP-00CP04

REV 0



EROSION CONTROL PLAN



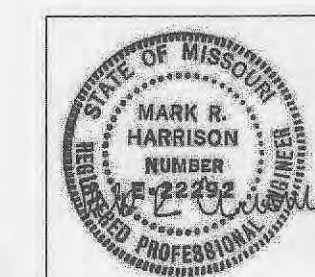
TEMPORARY EROSION CONTROL NOTES:

- TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED AND INSPECTED IN ACCORDANCE WITH THE CITY OF O'FALLON GRADING ORDINANCE NO. 5242.
- TEMPORARY EROSION CONTROL SYSTEMS SHALL BE COORDINATED WITH THE PERMANENT EROSION CONTROL FEATURES TO ENSURE EFFECTIVE AND CONTINUOUS EROSION CONTROL.
- TEMPORARY EROSION CONTROL SYSTEMS SHALL BE IMPLEMENTED BEFORE GRADING OPERATIONS BEGIN.
- EITHER TEMPORARY EROSION CONTROL MEASURES OR PERMANENT MEASURES (TABLE A) MUST BE INSTALLED TO STABILIZE DISTURBED AREAS WITHIN FOURTEEN DAYS AFTER GRADING ACTIVITY HAS CEASED IN ANY AREA.

TABLE A		
FEATURE	TEMPORARY EROSION/ SEDIMENT CONTROL MEASURES	PERMANENT MEASURES
CULVERTS	TEMPORARY INLET PROTECTION AT ALL CULVERT INLETS	RIPRAP OUTLET PROTECTION IN LOCATIONS SHOWN ON THE PLANS
DITCHES	TEMPORARY EROSION CONTROL LOGS IN LOCATIONS SHOWN ON THE PLANS	AGGREGATE LINING AS INDICATED ON SHEET CP07
2:1 SLOPES	TEMPORARY SEEDING AND EROSION CONTROL BLANKET	RIPRAP SLOPE PROTECTION OR FINAL SEEDING AND EROSION CONTROL BLANKET IN LOCATIONS INDICATED ON SHEET CP07
SLOPES FLATTER THAN 3:1	TEMPORARY SEEDING AND MULCH	AGGREGATE SURFACING OR FINAL SEEDING AND MULCH IN LOCATIONS INDICATED ON SHEET CP07

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"RECORD DRAWINGS"



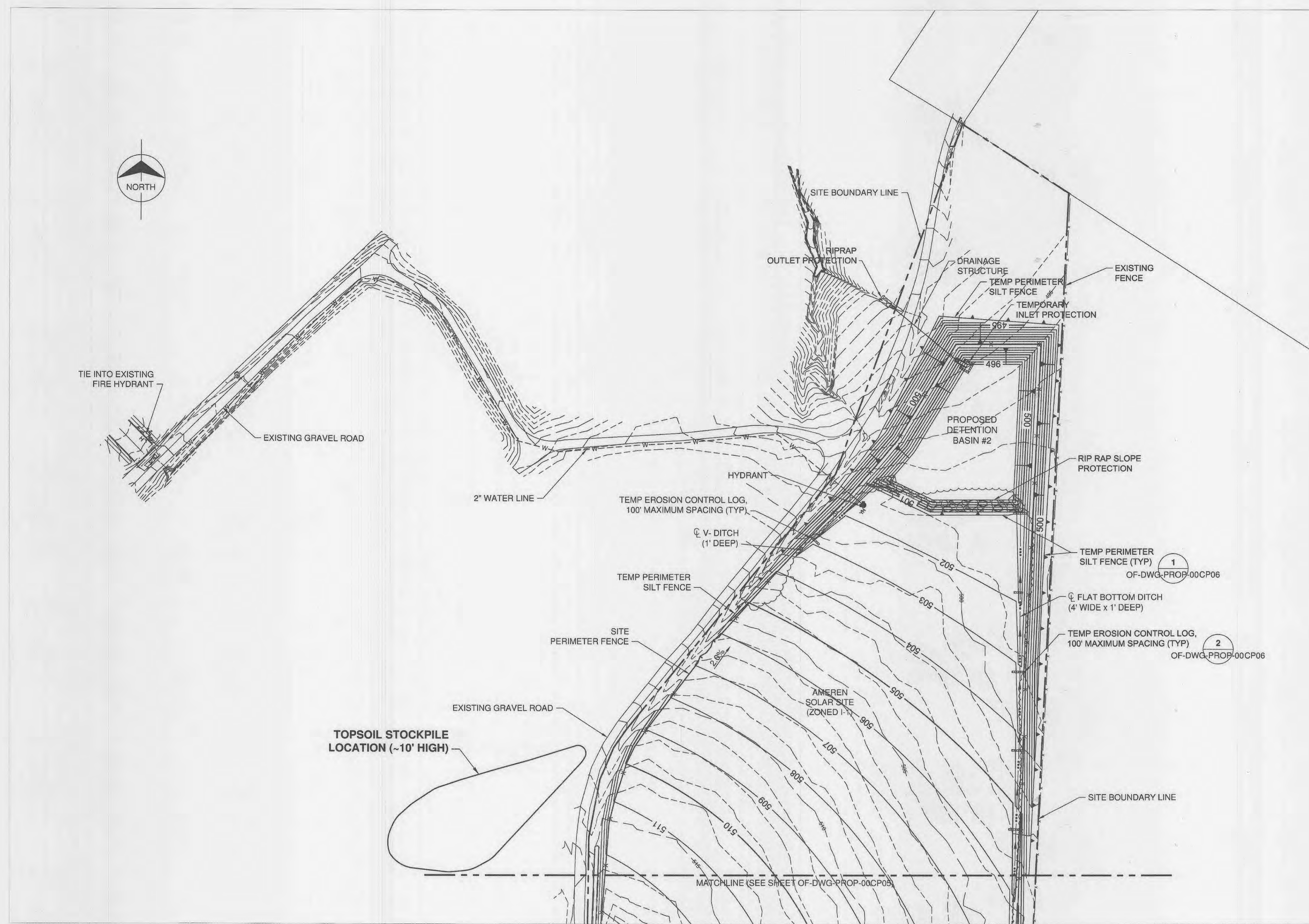
BMC# 77051
 Mark R. Harrison
 Professional Engineer
 #22292

Date: 03/31/2015
 Mark R. Harrison
 Professional Engineer
 #22292

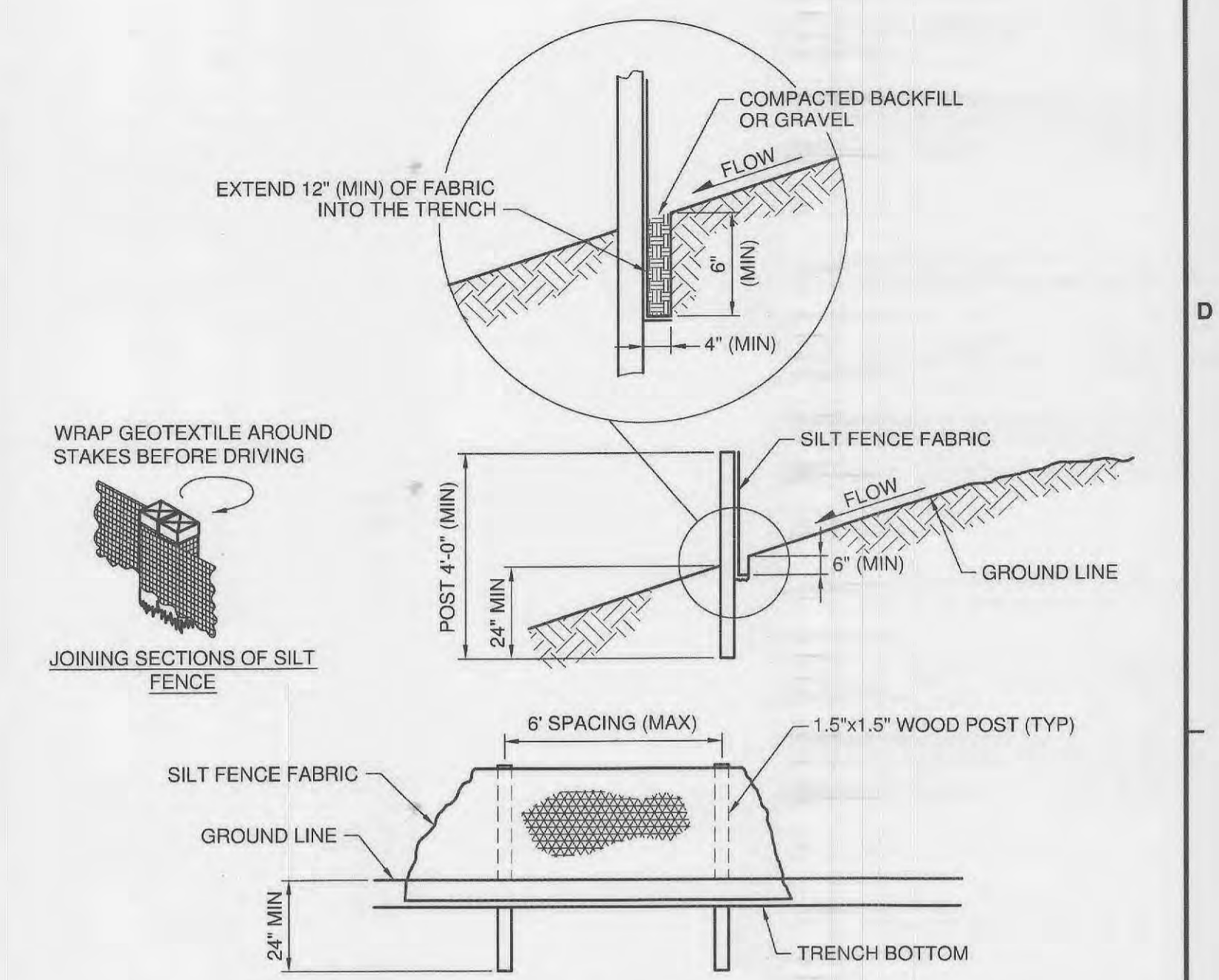
REV	PROJ ID	DATE	DRWN	RVM	APPR

EROSION CONTROL PLAN
 O'FALLON RENEWABLE ENERGY CENTER
 OF-DWG-PROP-00CP05



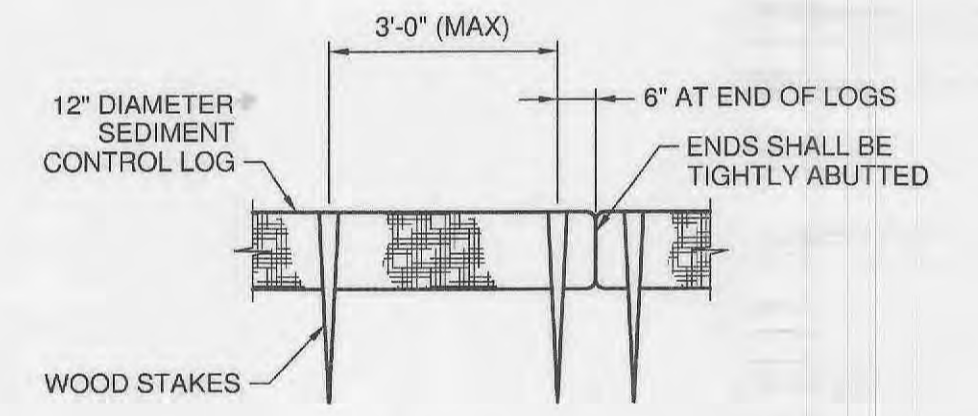


EROSION CONTROL PLAN
 0 60 120
 SCALE IN FEET



- NOTES:**
1. MINIMUM LONGITUDINAL SPLICE OVERLAP SHALL BE 2' WITH A POST AT EACH END. SECURE FABRIC TO POSTS.
 2. COMPACTION OF ANCHOR TRENCH SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF THE TRENCH BY HAND.
 3. FABRIC SHALL BE FASTENED SECURELY TO THE POSTS USING A MINIMUM OF ONE INCH LONG, HEAVY DUTY STAPLES OR TIE WIRES.
 4. REMOVE SEDIMENT FENCE AFTER IT HAS SERVED ITS USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

TEMP PERIMETER SILT FENCE 1
 NOT TO SCALE OF-DWG-PROP-00CP05
 OF-DWG-PROP-00CP06

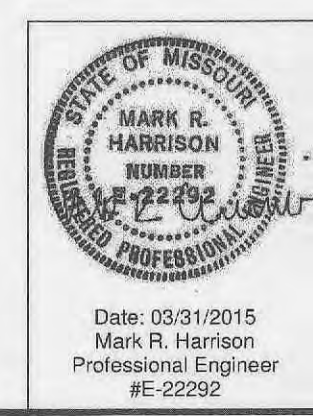


- NOTES:**
1. SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCELSIOR, OR COCONUT FIBER.
 2. THE SEDIMENT CONTROL LOG SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 2'.

TEMP EROSION CONTROL LOG 2
 NOT TO SCALE OF-DWG-PROP-00CP05
 OF-DWG-PROP-00CP06

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"RECORD DRAWINGS"



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Burns & McDonnell
 SINCE 1924

REV	PROJ ID	DATE	DRWN	RVN	APPD

EROSION CONTROL PLAN

OF FALLON RENEWABLE ENERGY CENTER

OF-DWG-PROP-00CP06

REV 0



EXISTING AMEREN
SUBSTATION
(ZONED C-2)

MATCHLINE (SEE SHEET OF DWG-PROP-00CP08)

SITE BOUNDARY LINE

ROCK LINED DITCH (SEE SHEET
OF DWG-PROP-00CP02 FOR
DETAILS)

PROPOSED
DETENTION
BASIN #1

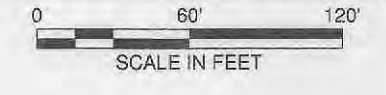
ROCK LINED DITCH (SEE SHEET
OF DWG-PROP-00CP02 FOR
DETAILS)

GRAVEL ACCESS
ROAD (10' WIDE)

(ZONED C-2)

T.R. HUGHES BLVD

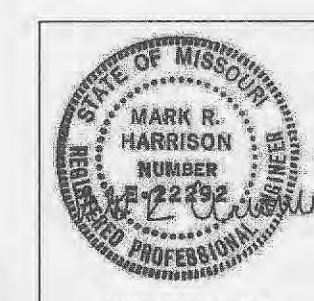
SITE SURFACING PLAN



LEGEND	
	ASPHALT SITE ACCESS ROAD
	CONCRETE SITE ENTRANCE
	TYPE 5 ROCK SURFACE
	ROCK LINED DITCH
	ROCK BLANKET
	SEEDING LIMITS
	DETENTION BASIN BIORETENTION

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"RECORD DRAWINGS"



BMCD# 77051
Mark R. Harrison
Professional Engineer
#E-22292

REV	PROJ. ID	DATE	DRWN	REV	APPR

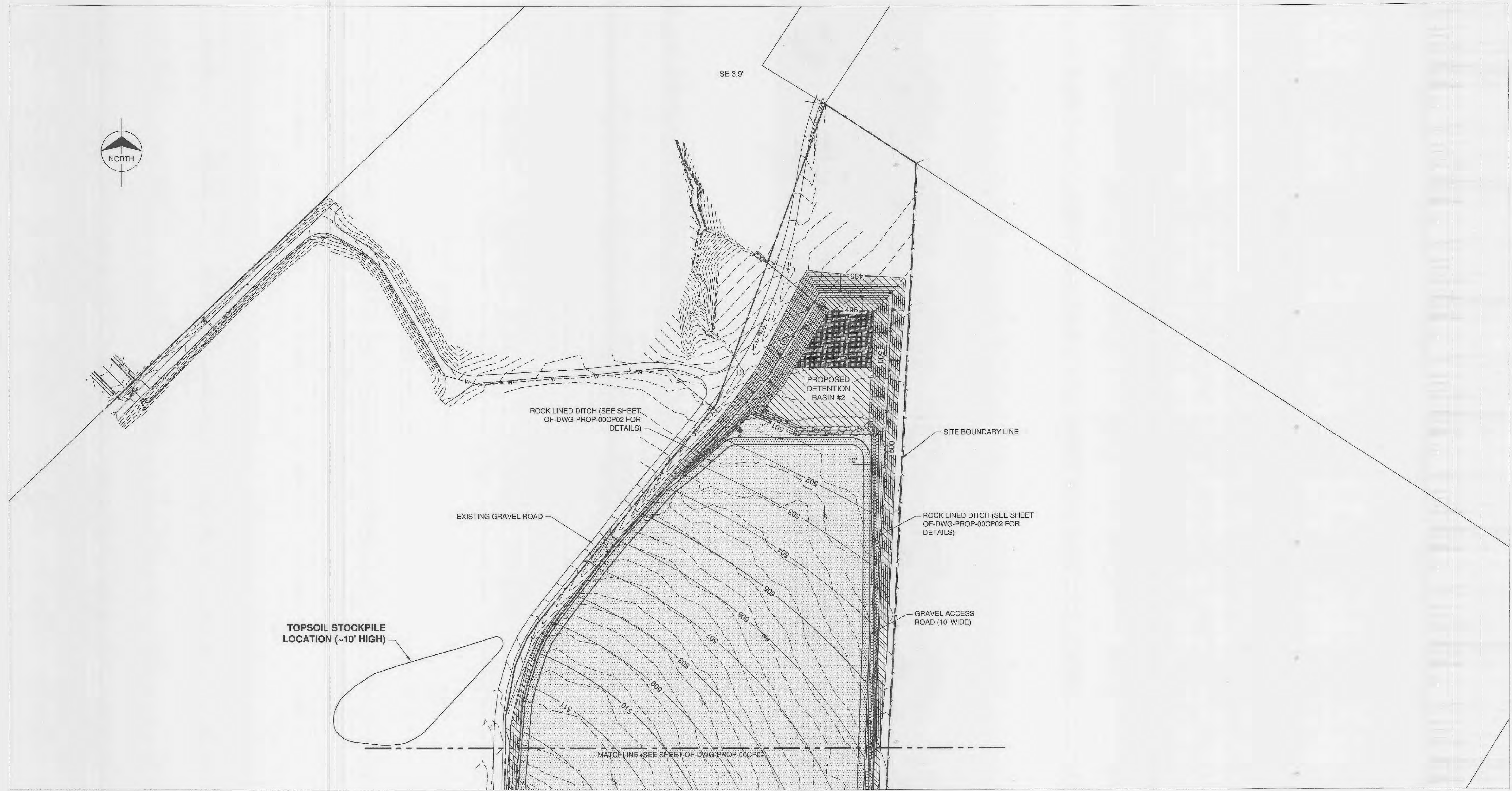
SITE SURFACING PLAN

O'FALLON RENEWABLE ENERGY CENTER



OF-DWG-PROP-00CP07

REV 0



SITE SURFACING PLAN

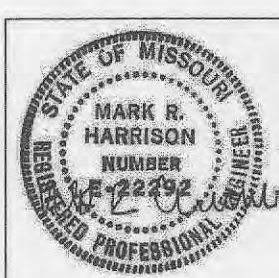
LEGEND

	ASPHALT SITE ACCESS ROAD
	CONCRETE SITE ENTRANCE
	TYPE 5 ROCK SURFACE
	ROCK LINED DITCH
	ROCK BLANKET
	SEEDING LIMITS
	DETENTION BASIN BIORETENTION



BMCD# 77051
401 S. Wacker Drive
Chicago, IL 60607
312.467.1100

Burns & McDonnell
SINCE 1908



Date: 03/31/2015
Mark R. Harrison
Professional Engineer
#E-22292

REV	PROJ ID	DATE	DRWN	RYW	APPR

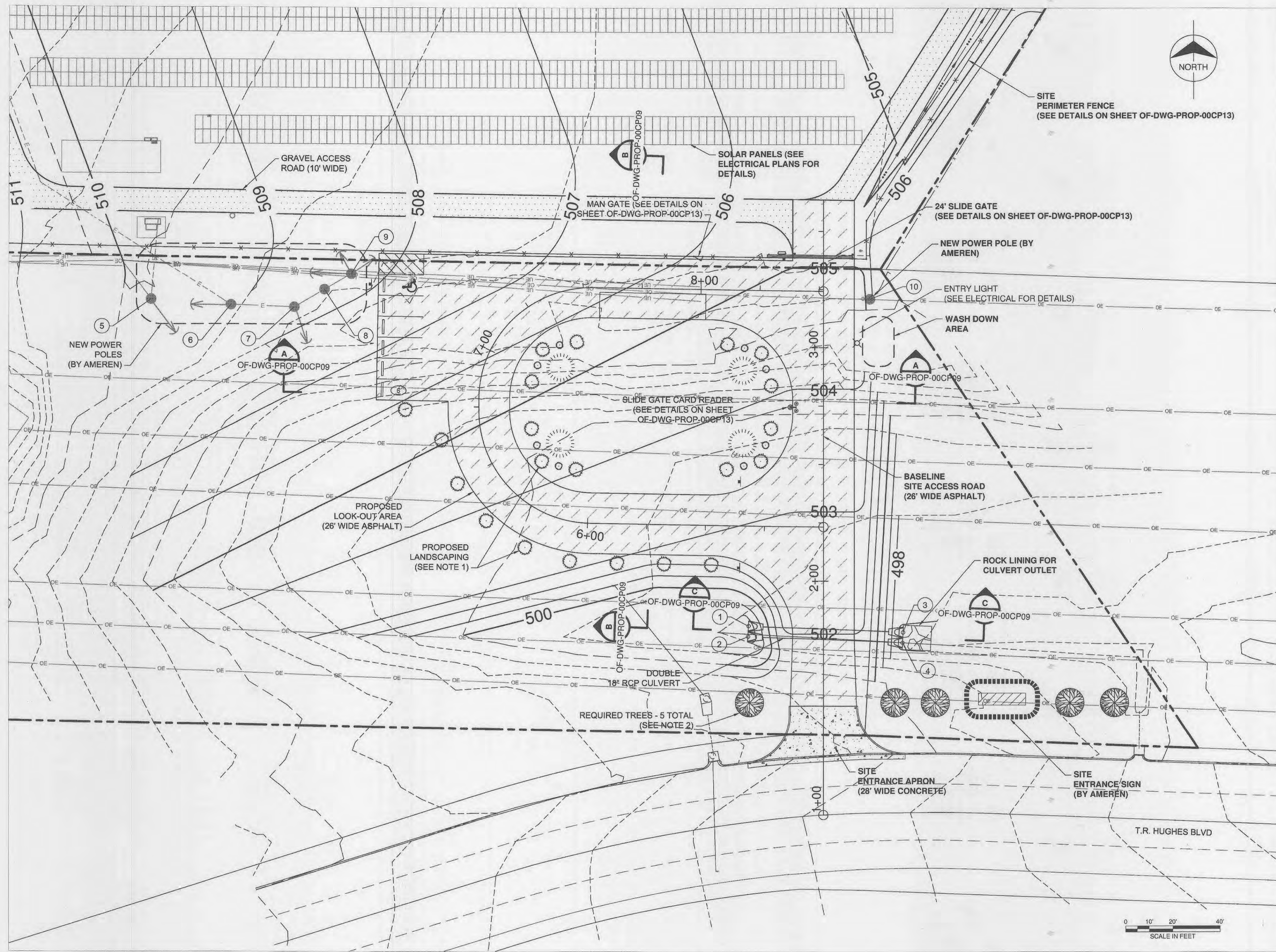
SITE SURFACING PLAN

O'FALLON RENEWABLE ENERGY CENTER

Ameren

OF-DWG-PROP-00CP08

REV 0



LOOK-OUT AREA SITE PLAN

- NOTES:**
1. THE LANDSCAPING SHOWN ON THIS PLAN IS FOR ILLUSTRATIVE PURPOSES ONLY. A DETAILED PLAN IS TO BE PREPARED BY A LANDSCAPER UNDER THE DIRECTION OF THE CONTRACTOR IN ACCORDANCE WITH SECTION 402.140 OF THE CITY OF FALLON DEVELOPMENT CODE.
 2. A MINIMUM OF 5 TREES SHALL BE PLANTED ALONG T.R. HUGHES BLVD IN ACCORDANCE WITH SECTION 402.100 OF THE CITY OF FALLON DEVELOPMENT CODE WHICH REQUIRES 1 TREE FOR EVERY 40' OF STREET FRONTAGE. THIS SITE HAS APPROX. 175 LINEAR FOOT FRONTAGE ALONG T.R. HUGHES BOULEVARD. THESE REQUIRED TREES SHALL BE A MINIMUM OF 8 FEET TALL AT PLANTING (OR HAVE A 1.5" CALIPER) AND SHALL HAVE A MAXIMUM MATURE HEIGHT OF 15 FEET.
 3. SEE SHEET OF-DWG-ELEC-00EL002 FOR ELECTRICAL DETAILS ASSOCIATED WITH THE GATES, CARD READER, DETECTOR LOOP, ENTRY LIGHTS AND NEW POWER POLES.

LANDSCAPE LEGEND

- FLAME AMUR MAPLE TREE (ACER GINNALA FLAME)
- LANDSCAPING SHRUB
- LANDSCAPING TREE

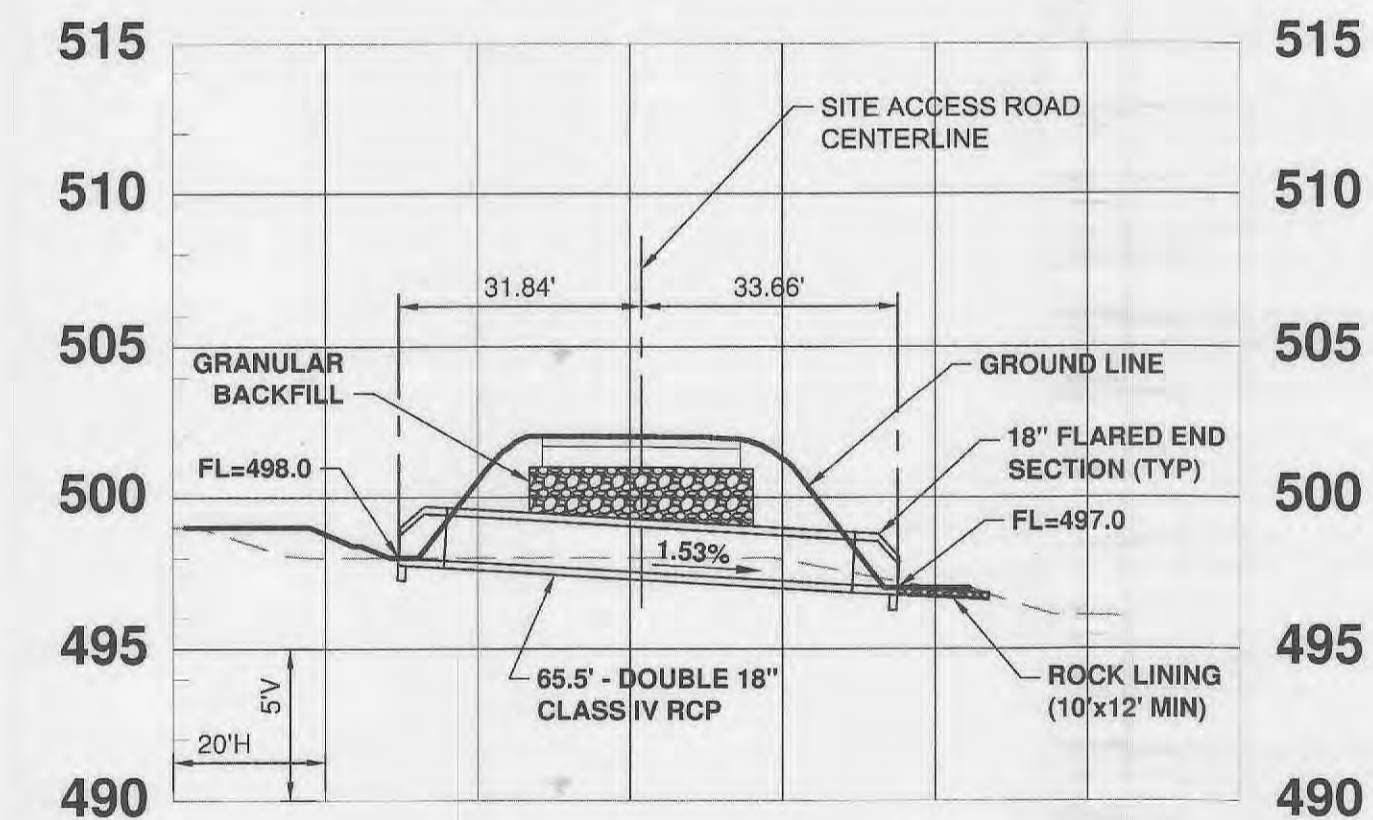
POWER POLE COORDINATE TABLE

POINT	NORTHING	EASTING
5	1089391.30	769613.63
6	1089388.97	769647.49
7	1089387.98	769674.31
8	1089395.55	769687.11
9	1089402.27	769698.45
10	1089391.63	769918.31

NOTE:
POWER POLE COORDINATES SHOWN ARE
BASED ON POLE LOCATIONS AS PROVIDED BY
AMEREN.

STRUCTURE COORDINATE TABLE

POINT	NORTHING	EASTING	REMARK
1	1089251.52	769866.91	US FL 498.0
2	1089247.07	769866.67	US FL 498.0
3	1089248.81	769932.36	DS FL 497.0
4	1089244.32	769932.12	DS FL 497.0

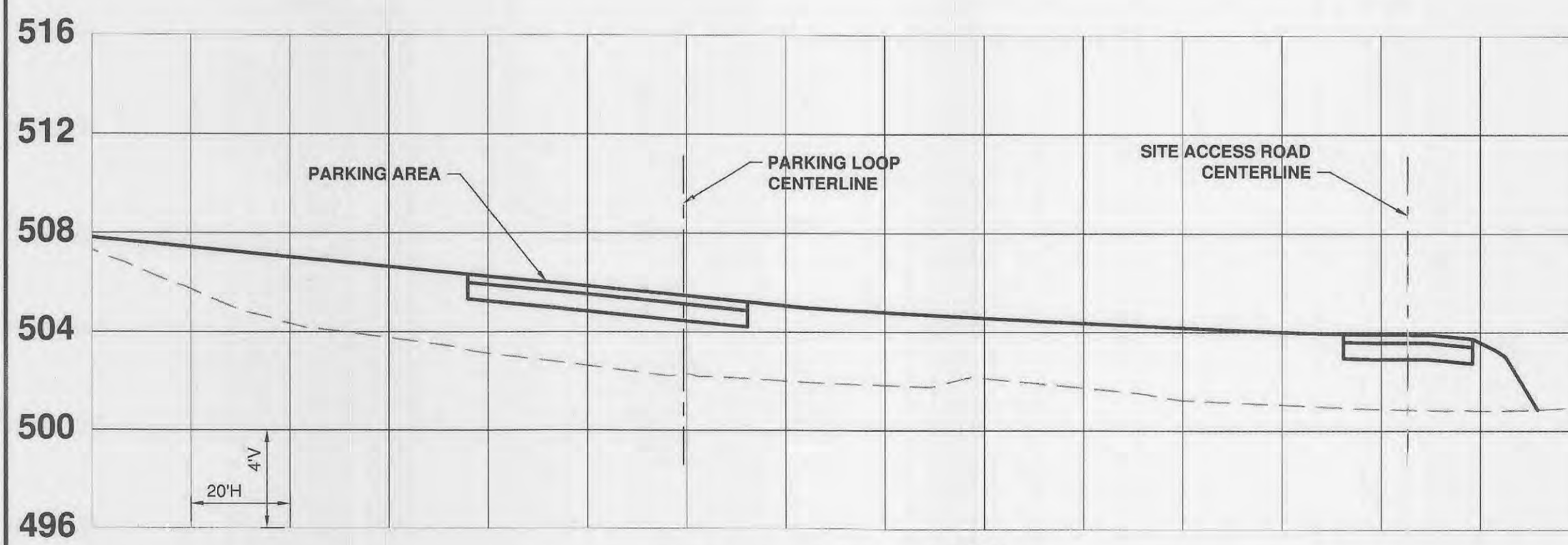


CULVERT PROFILE
STA. 1+77.18 OF-DWG-PROP-00CP09

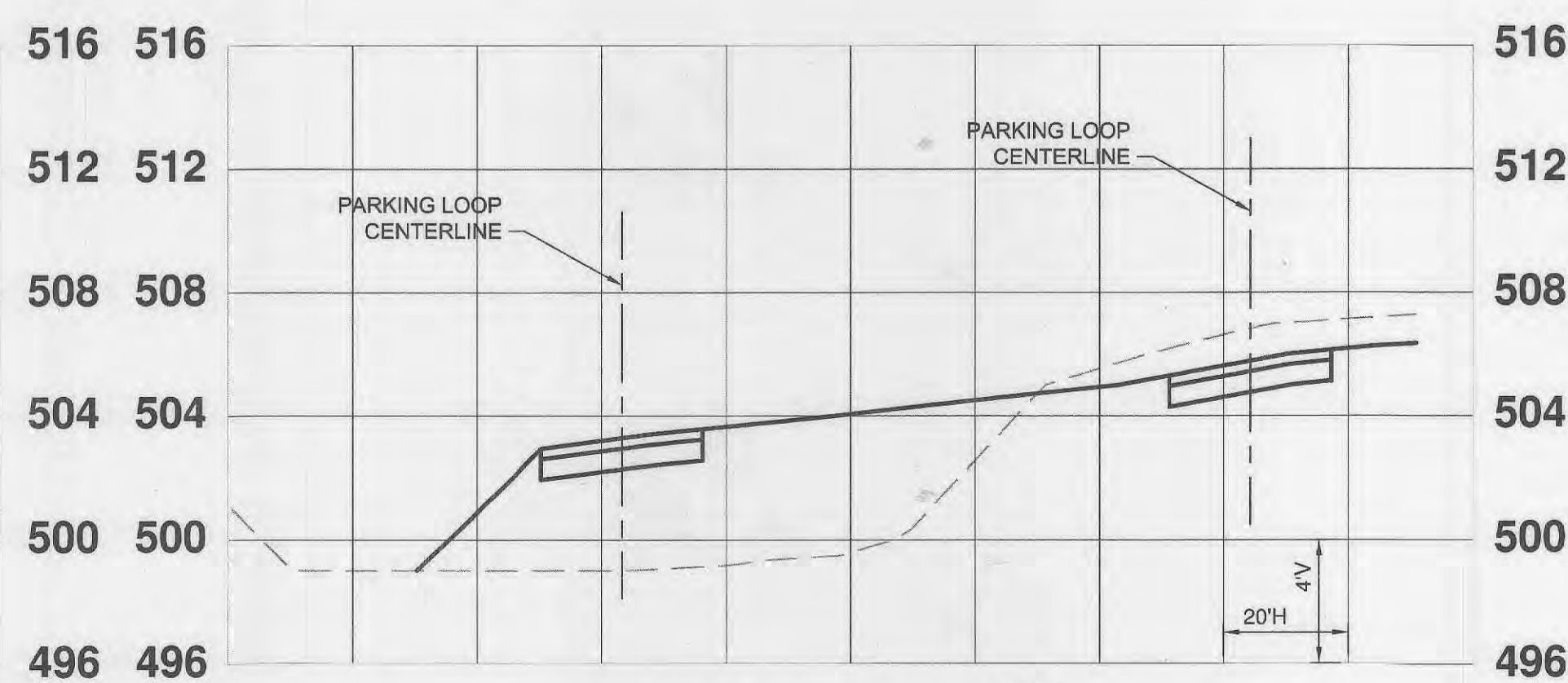
NOTE:
PIPE BEDDING SHALL BE IN ACCORDANCE WITH
MSD STANDARD DETAIL FOR REINFORCED
CONCRETE PIPE BEDDING CLASS "C".

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"RECORD DRAWINGS"



LOOK-OUT AREA SECTION A-A
OF-DWG-PROP-00CP09



LOOK-OUT AREA SECTION B-B
OF-DWG-PROP-00CP09

BMCD# 77051
Mark R. Harrison
Professional Engineer
#E 22292



Date: 03/31/2015
Mark R. Harrison
Professional Engineer
#E 22292

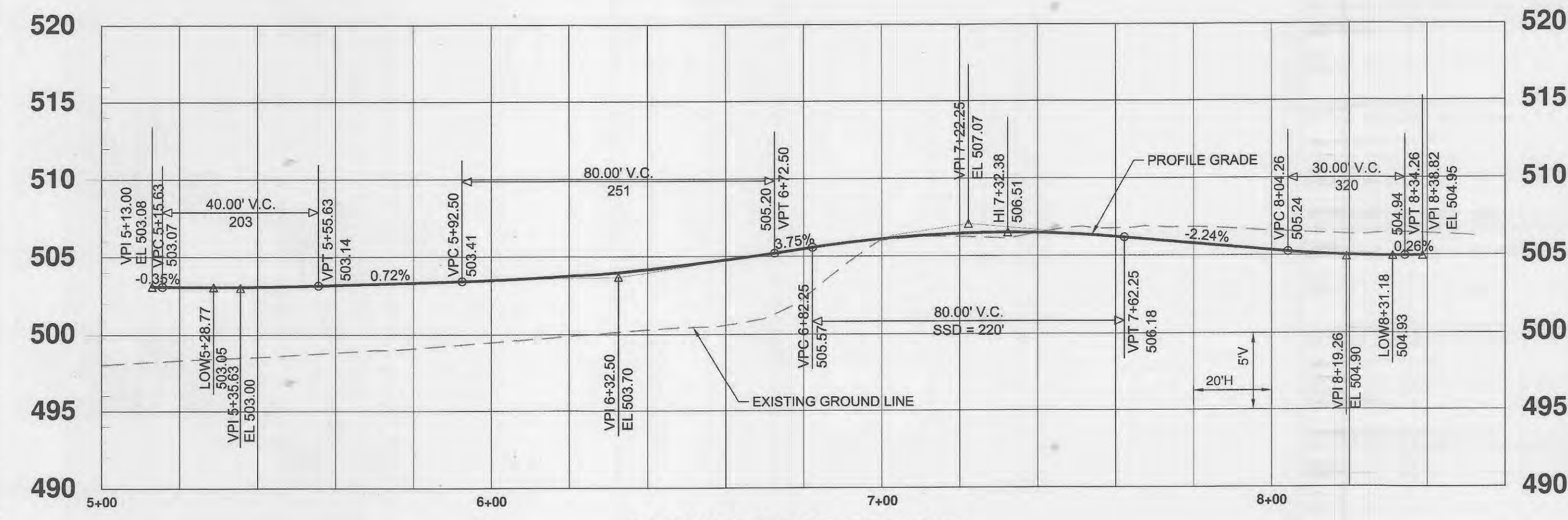
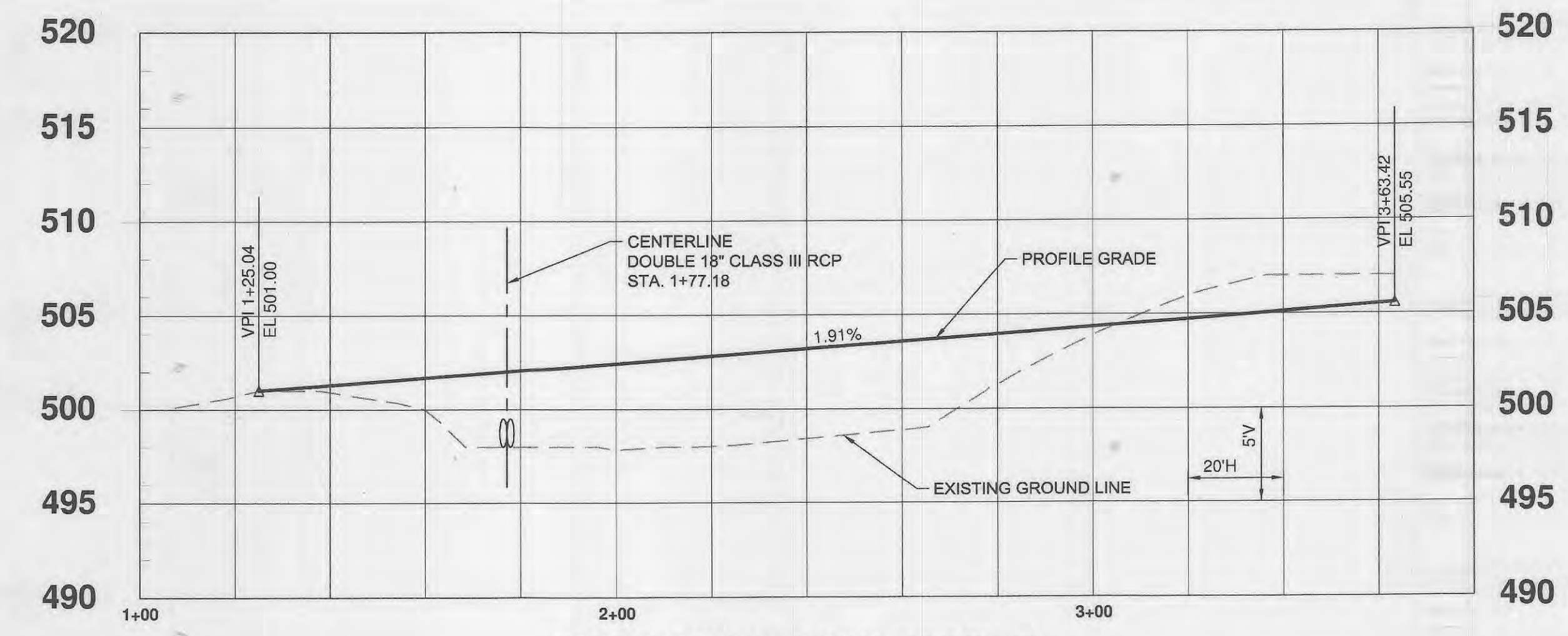
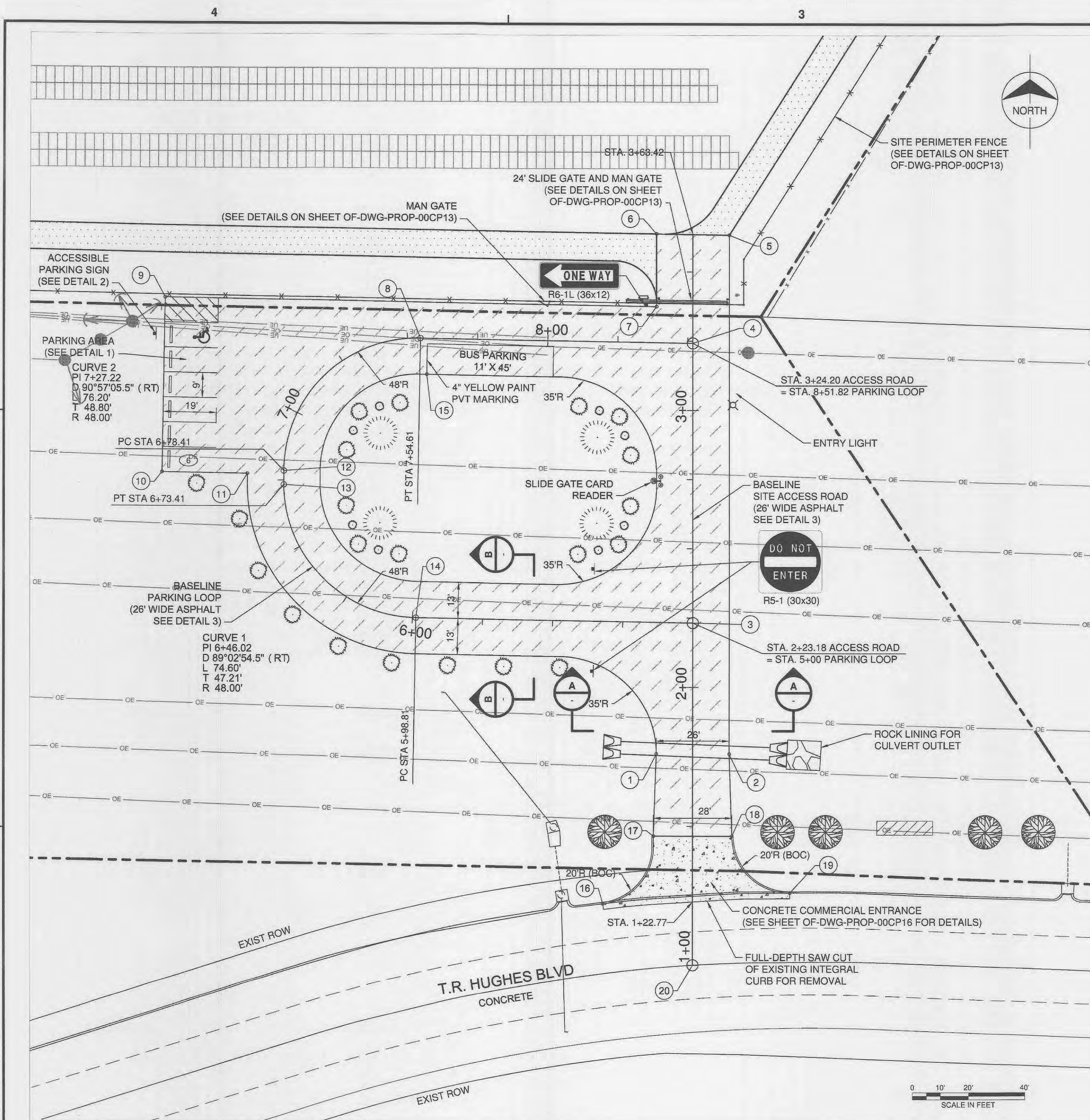
REV	PROJ ID	DATE	DRWN	RWN	APPR

LOOK-OUT AREA SITE PLAN

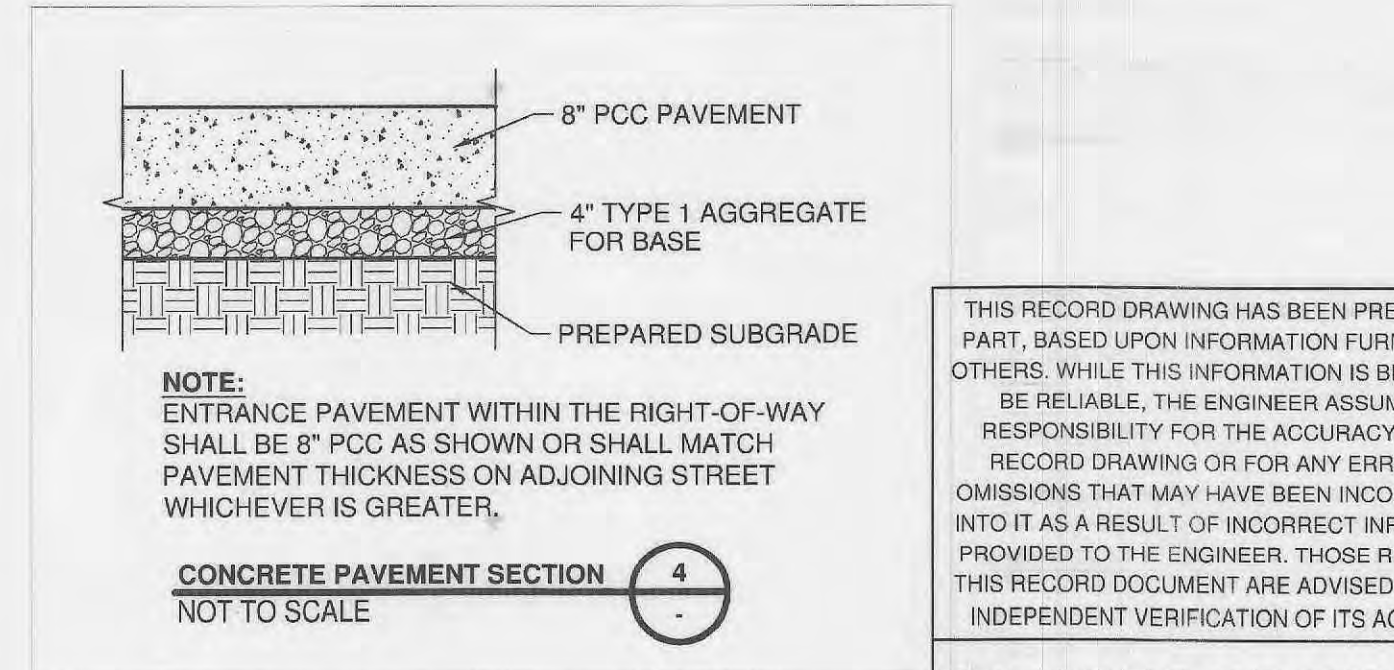
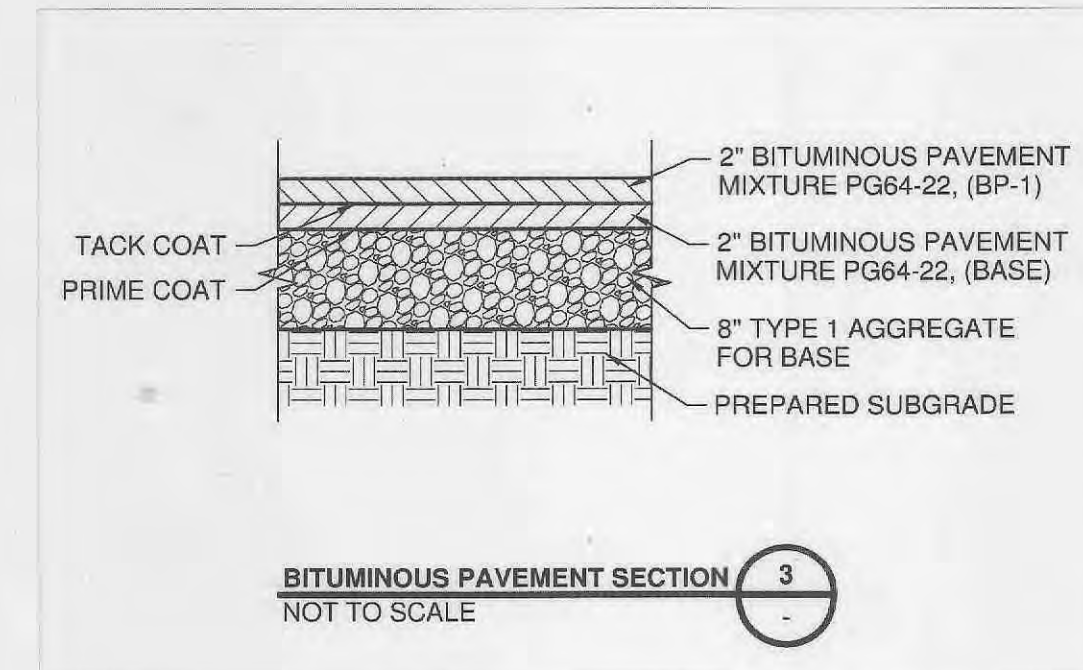
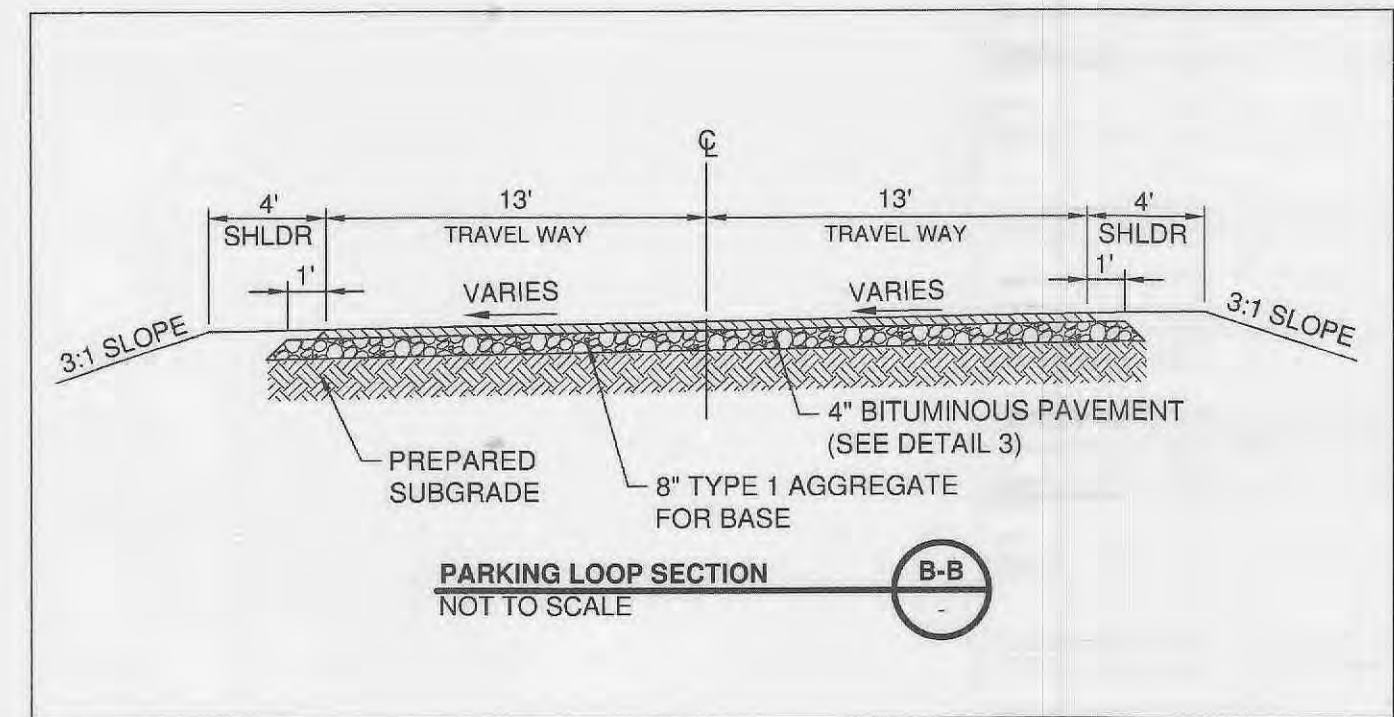
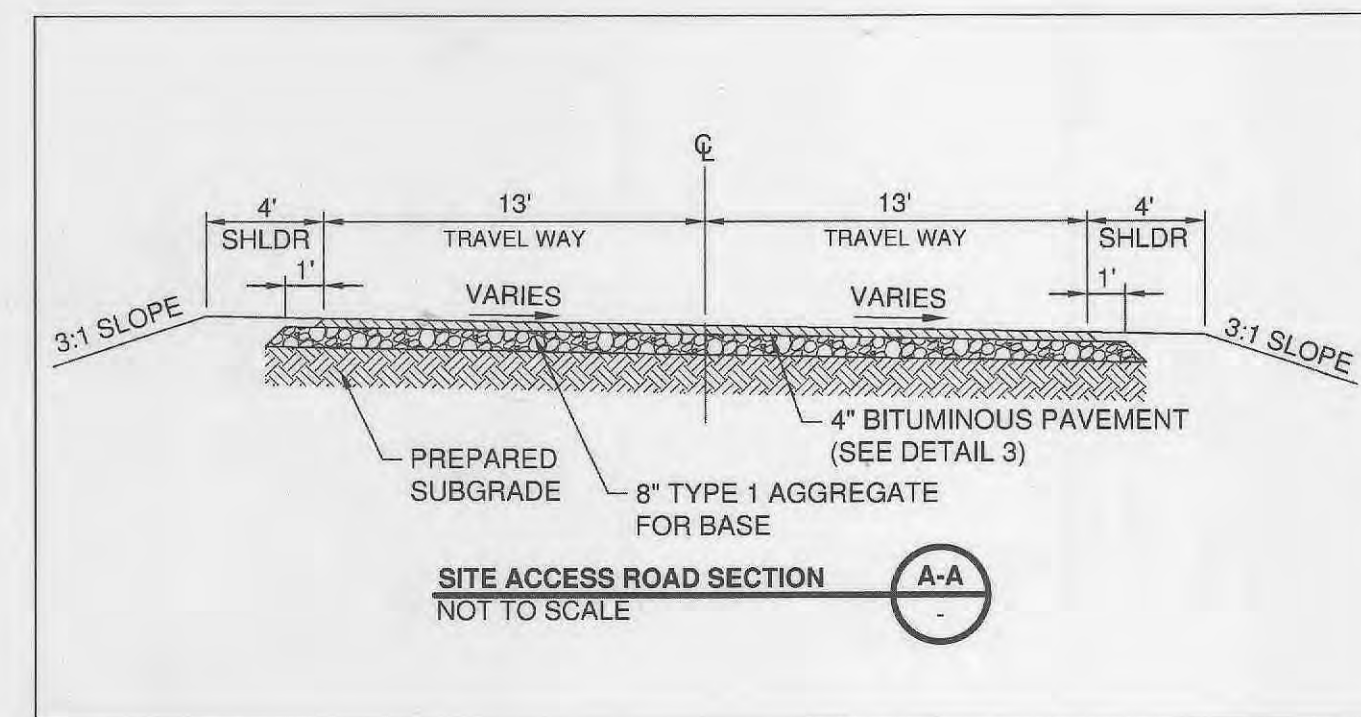
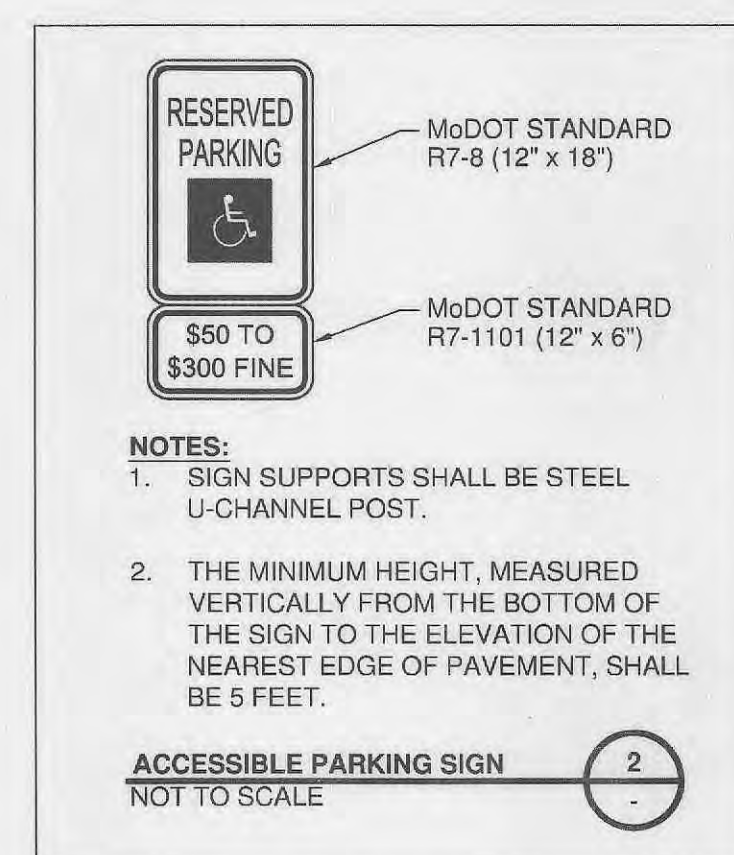
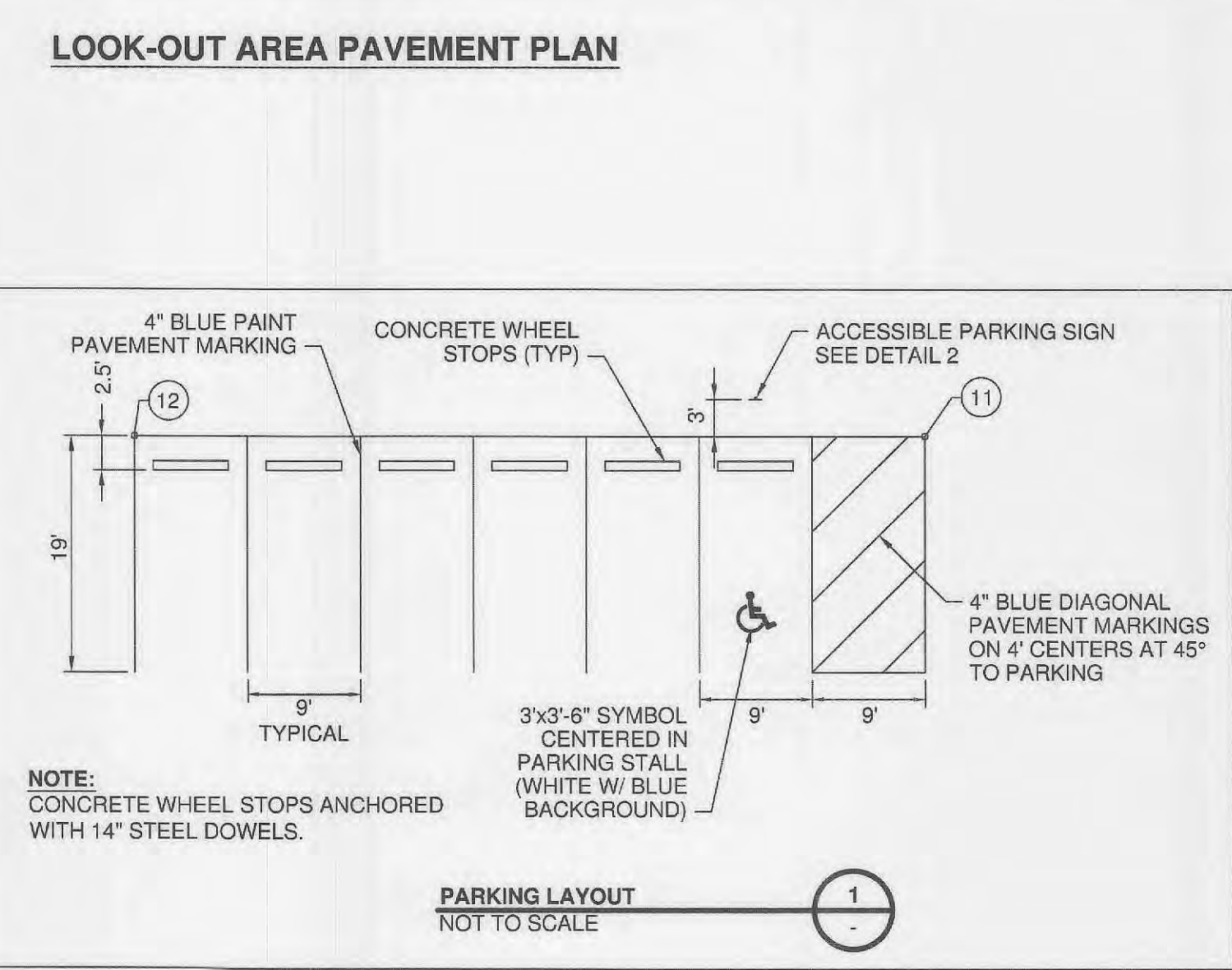
OF-FALLON RENEWABLE ENERGY CENTER

OF-DWG-PROP-00CP09

REV 0



COORDINATE TABLE			
POINT	NORTHING	EASTING	REMARK
1	1089246.73	769885.60	EDGE PVT
2	1089246.73	769911.60	EDGE PVT
3	1089293.98	769898.60	BASELINE PT
4	1089395.00	769898.60	BASELINE PT
5	1089434.01	769911.60	EDGE PVT
6	1089434.43	769885.60	EDGE PVT
7	1089408.22	769885.60	EDGE PVT
8	1089396.61	769801.40	BASELINE PT
9	1089411.13	769710.20	EDGE PVT
10	1089348.14	769709.16	EDGE PVT
11	1089347.63	769739.60	EDGE PVT
12	1089348.62	769752.60	BASELINE PT
13	1089343.62	769752.60	BASELINE PT
14	1089295.63	769799.81	BASELINE PT
15	1089383.61	769803.67	STRIPING
16	1089192.82	769866.60	FACE CURB
17	1089217.24	769884.60	FACE CURB
18	1089217.24	769912.60	FACE CURB
19	1089196.74	769933.25	FACE CURB
20	1089170.80	769898.60	BASELINE PT



REV	PROJ ID	DATE	DRWN	RVW	APPR

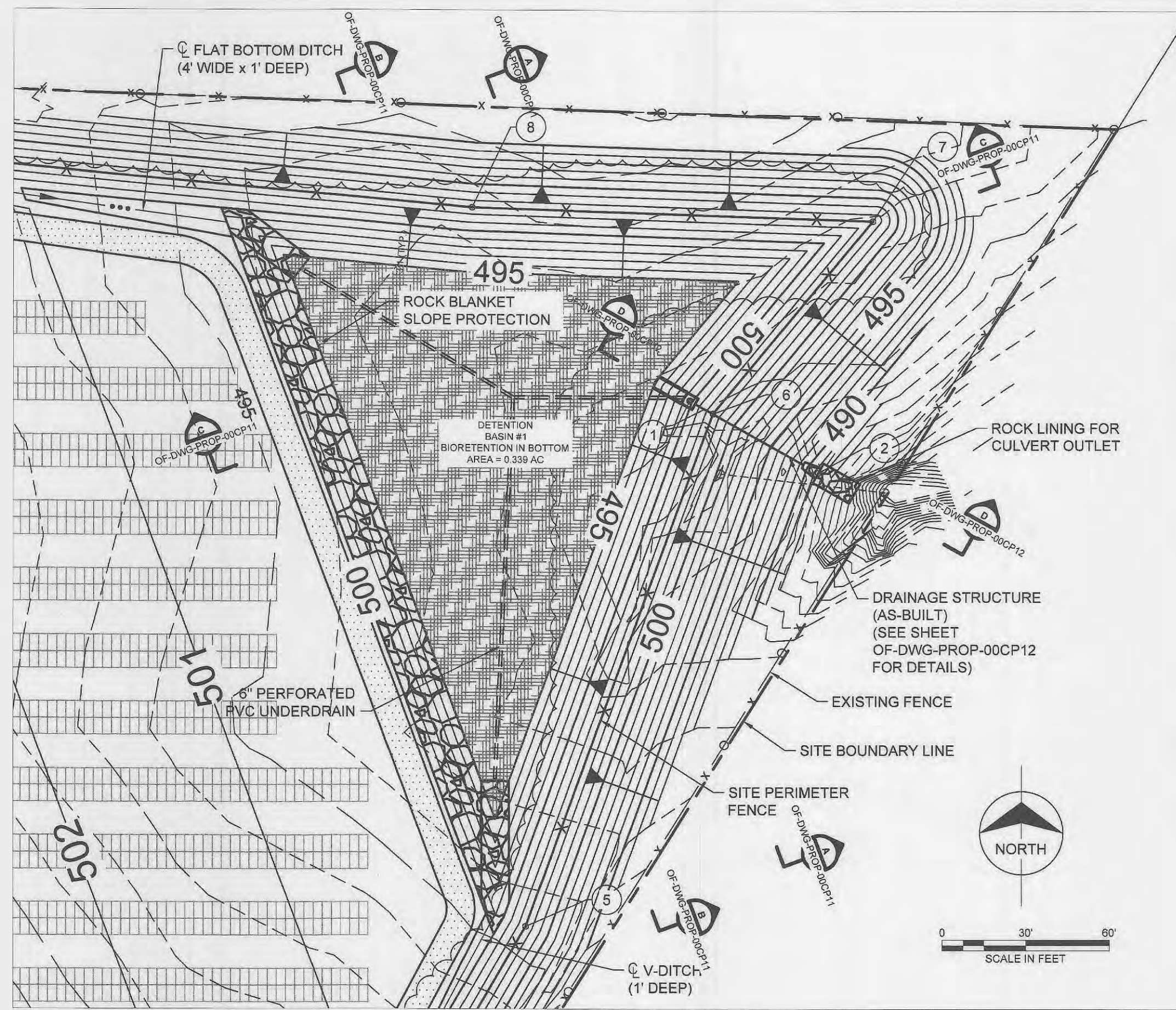
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"RECORD DRAWINGS"

LOOK-OUT AREA PAVEMENT DETAILS	
REV	PROJ ID

BMCDS# 77051
 Mark R. Harrison
 Professional Engineer
 #22292

OFALLON RENEWABLE ENERGY CENTER
 OF-DWG-PROP-00CP10
 0

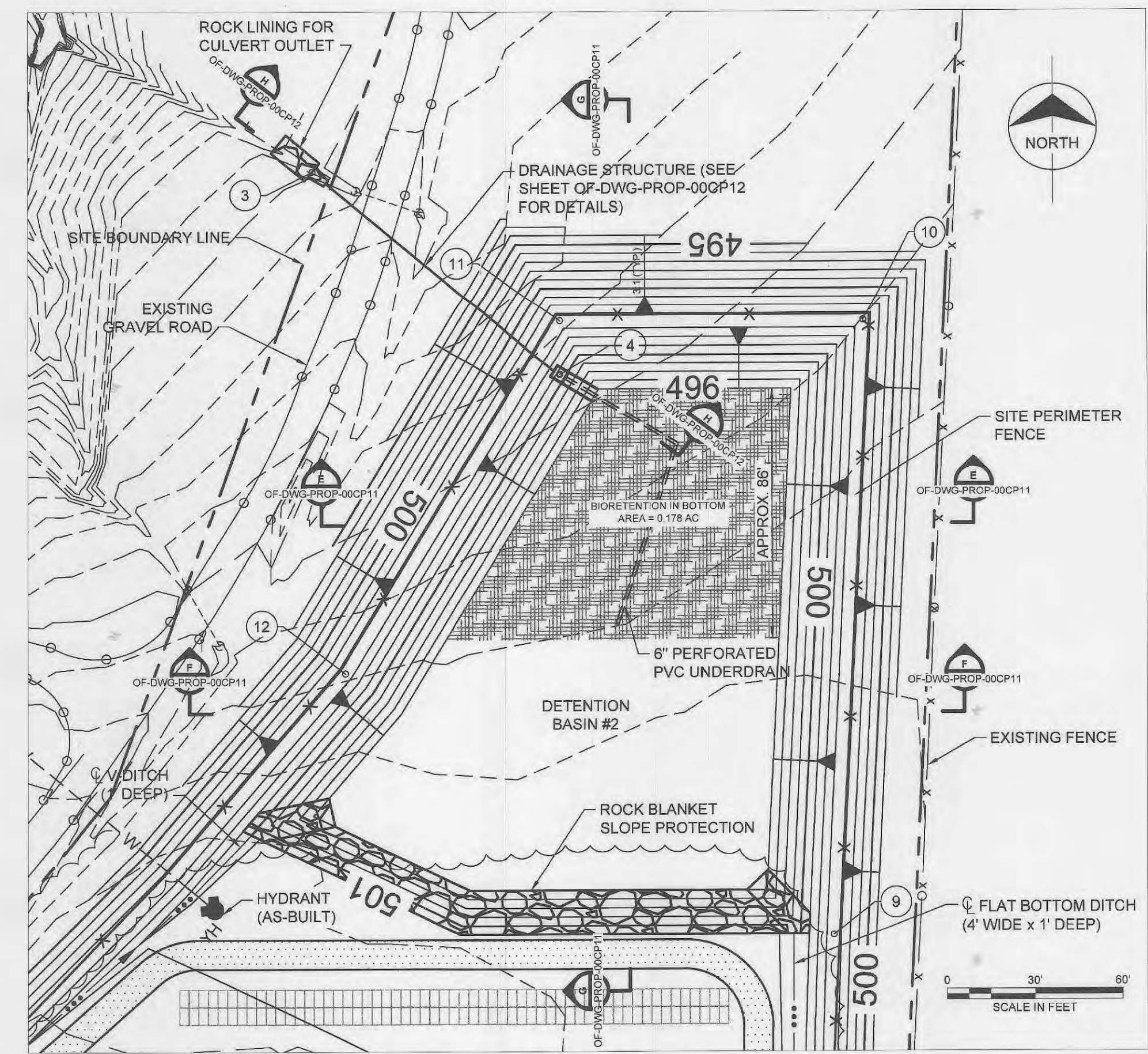


DETENTION BASIN #1 PLAN

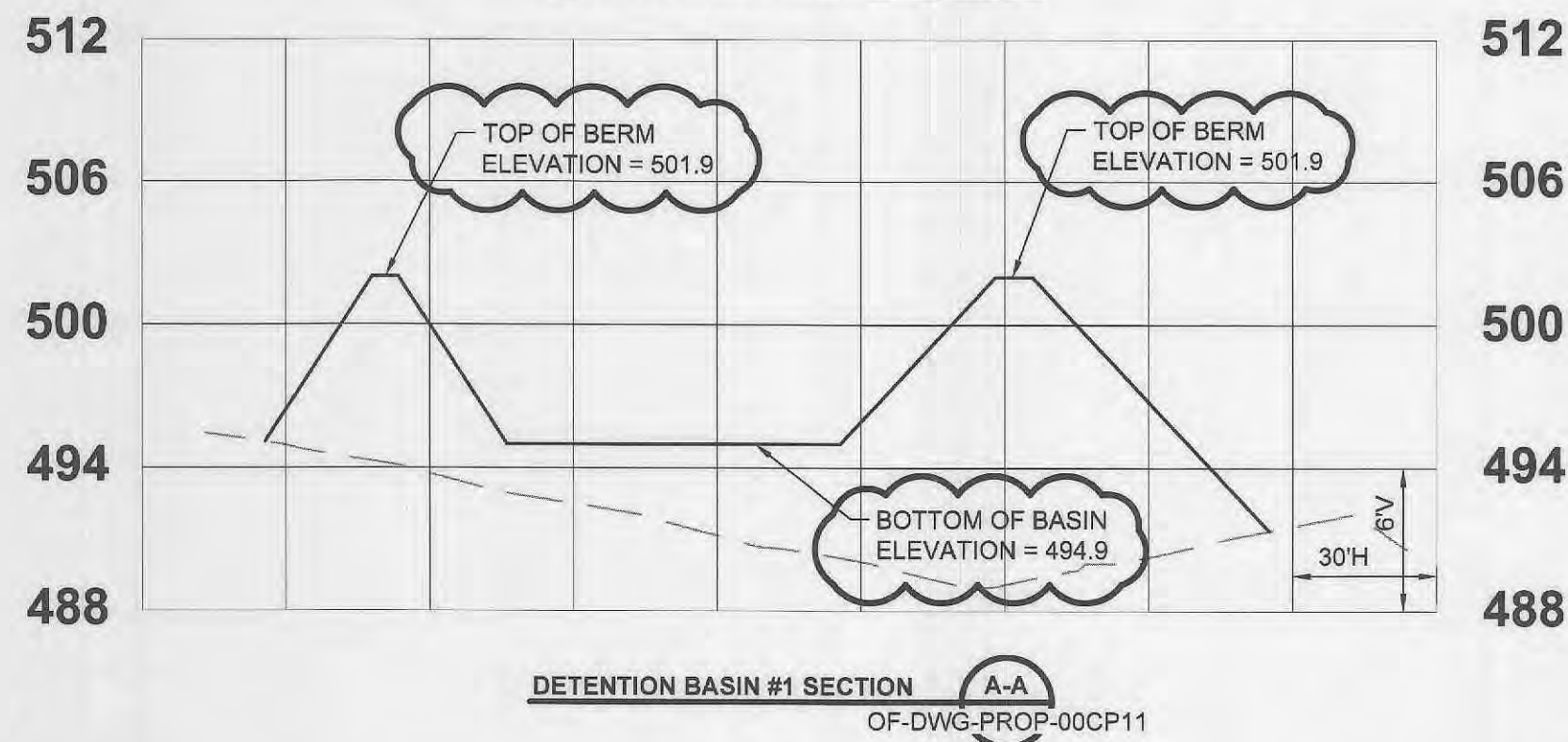
STRUCTURE COORDINATE TABLE			
POINT	NORTHING	EASTING	COMMENT
1	1090013.37	770211.54	AS-BUILT
2	1089987.15	770257.86	AS-BUILT
3	1091040.14	769420.56	AS-BUILT
4	1090969.93	769504.87	AS-BUILT

FENCE POST COORDINATE TABLE		
POINT	NORTHING	EASTING
5	1089823.18	770152.93
6	1090008.68	770219.93
7	1090078.57	770277.34
8	1090083.57	770133.41
9	1090777.08	769598.31
10	1090988.35	769608.49
11	1090988.35	769504.87
12	1090866.88	769431.76

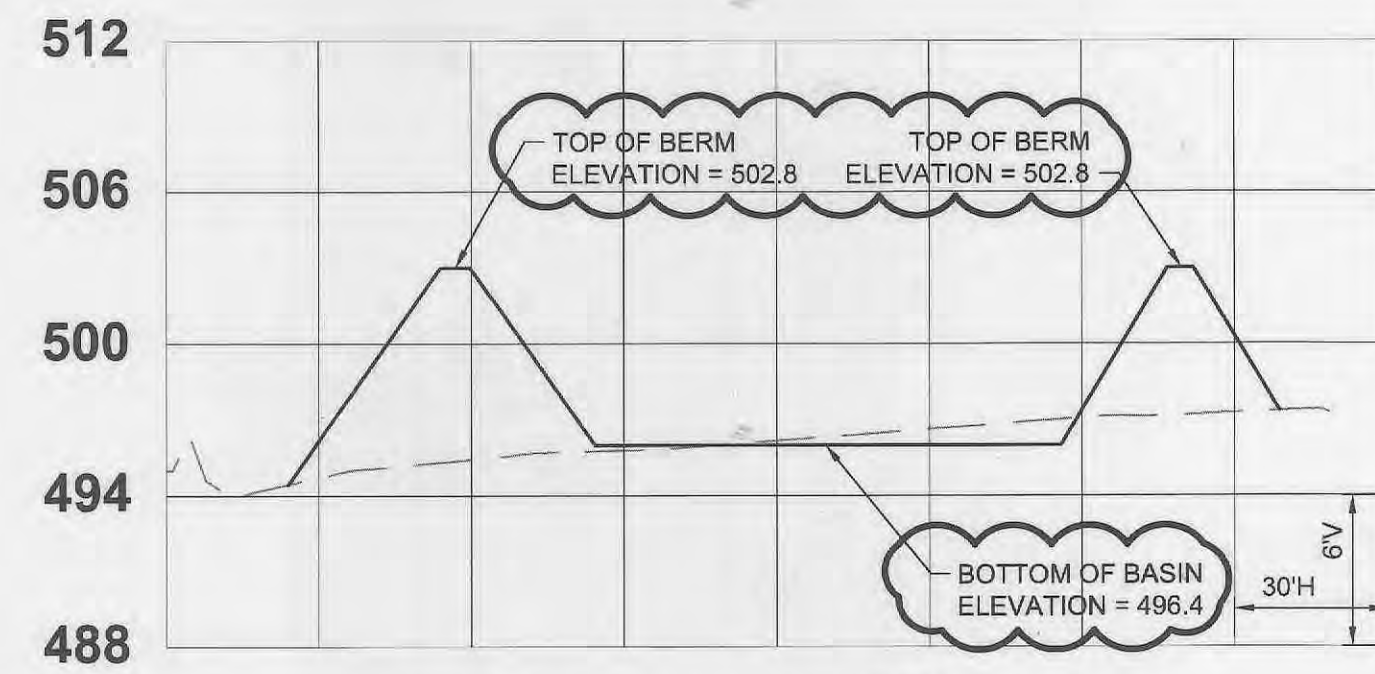
NOTE: COORDINATES SHOWN ARE APPROXIMATE POST LOCATIONS BASED ON THE DESIGN PLAN. ACTUAL POST LOCATIONS SHOULD BE FIELD ADJUSTED TO MATCH THE TYPICAL SECTIONS SHOWN ON SHEET CP02 BASED ON THE ACTUAL CONSTRUCTION CONDITIONS.



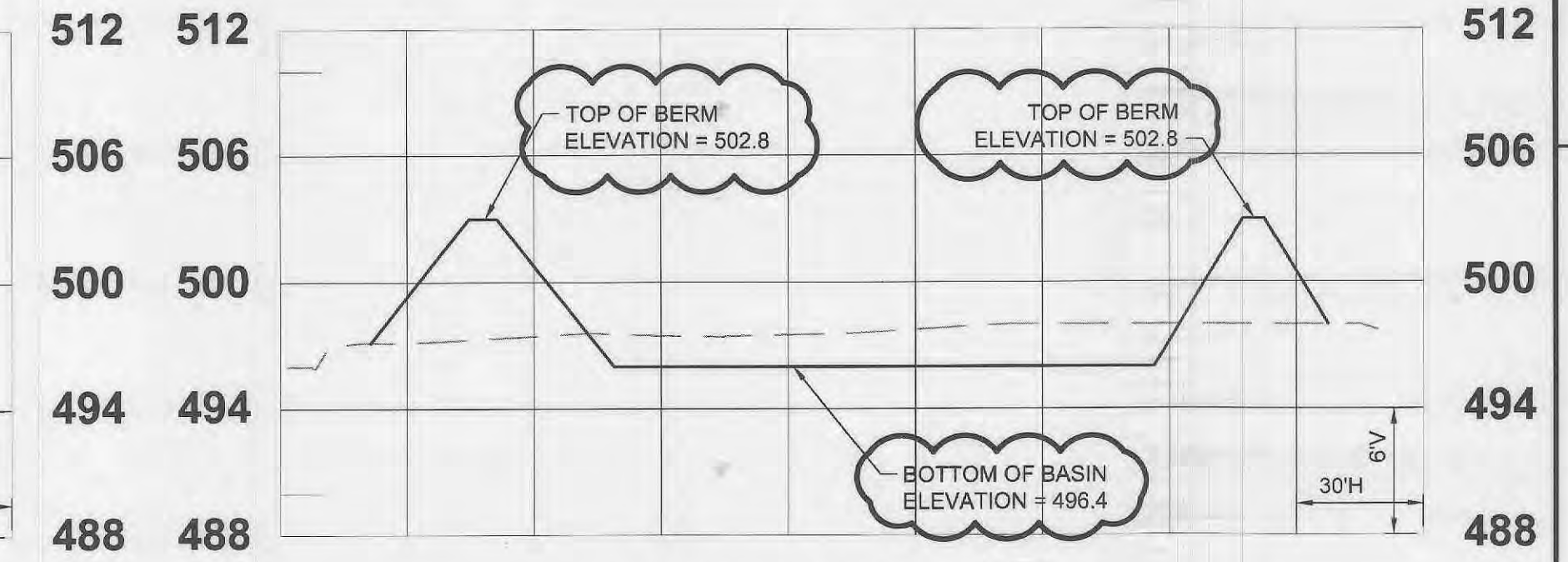
DETENTION BASIN #2 PLAN



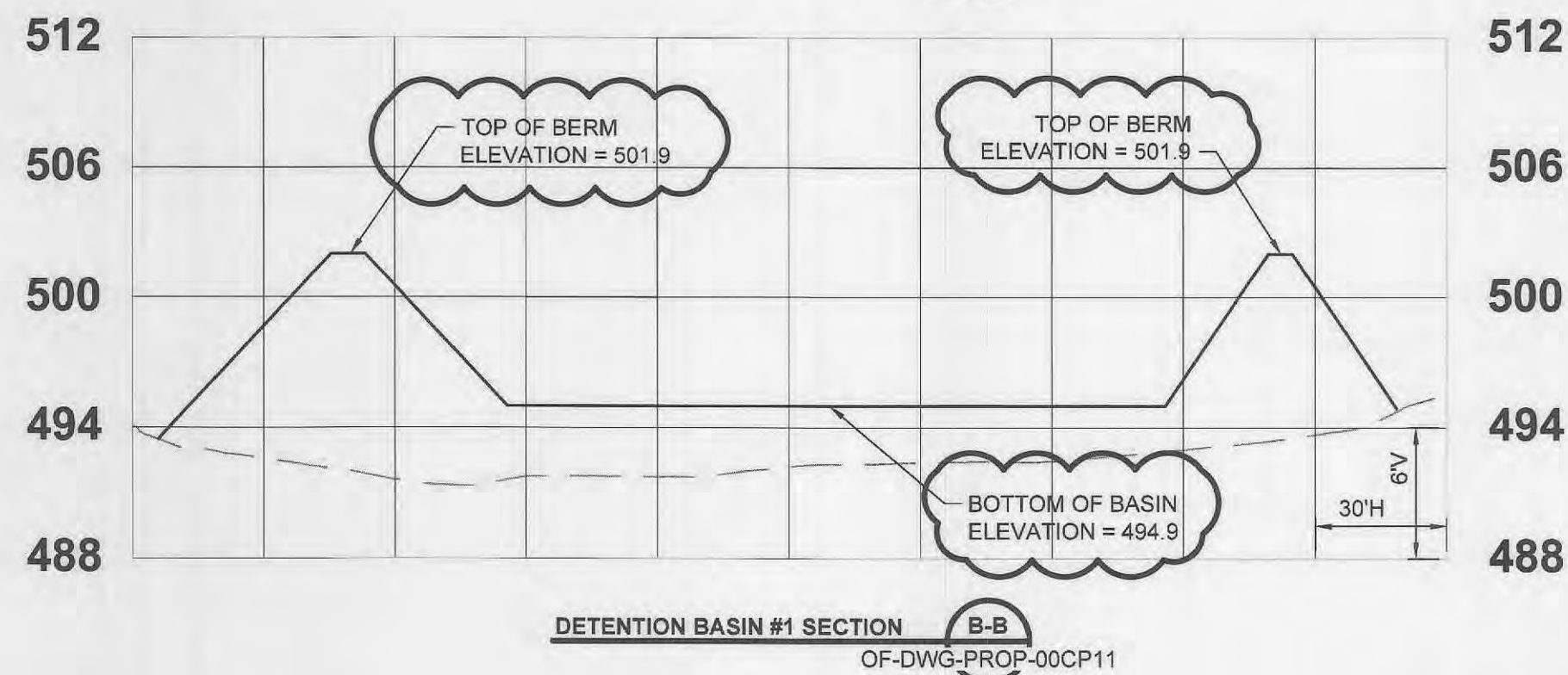
DETENTION BASIN #1 SECTION A-A
OF-DWG-PROP-00CP11



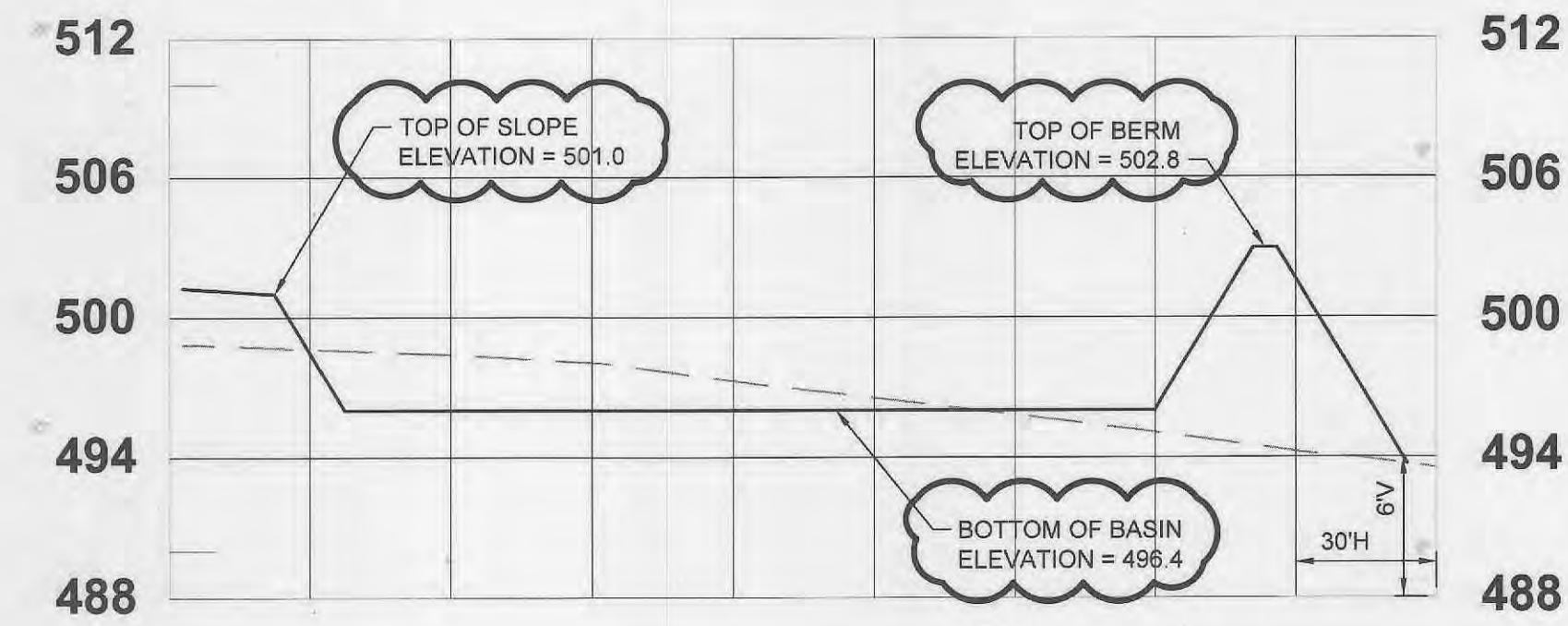
DETENTION BASIN #2 SECTION E-E
OF-DWG-PROP-00CP11



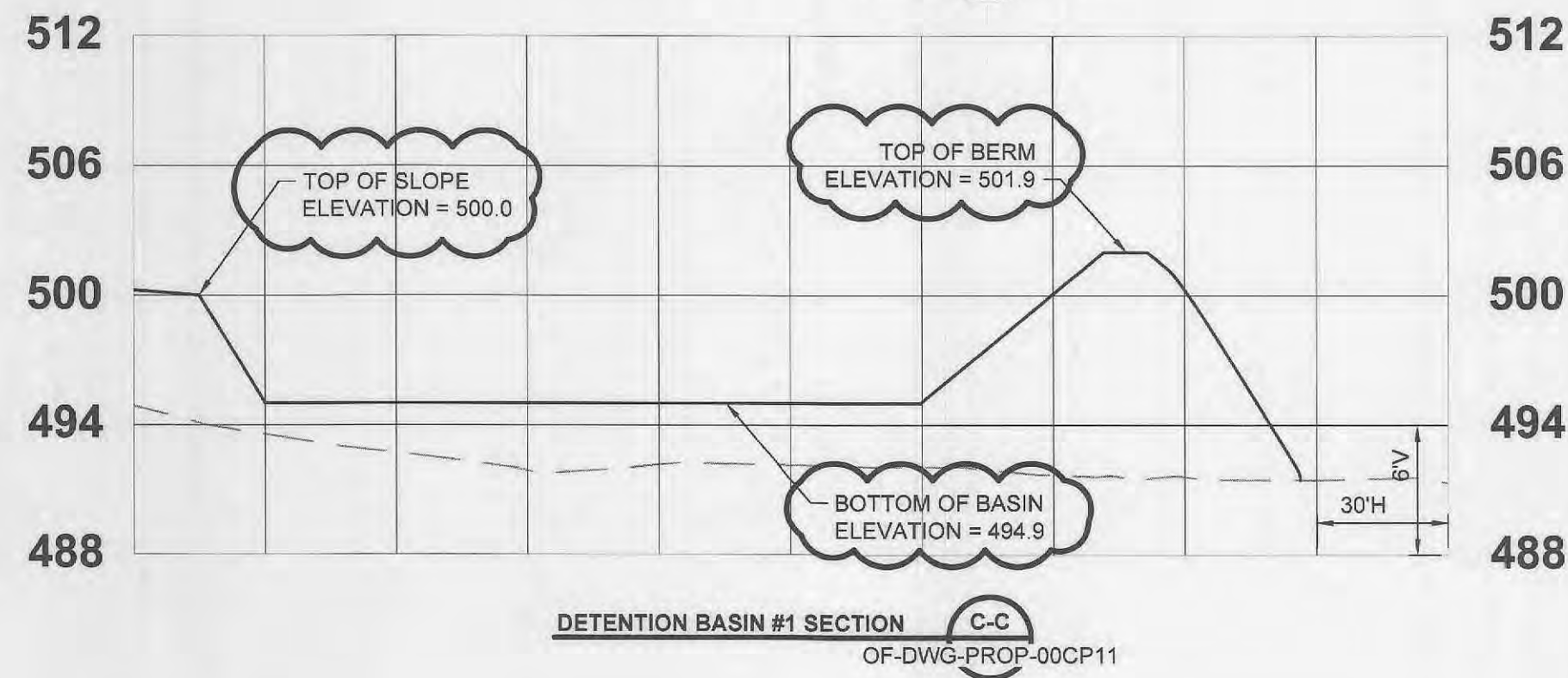
DETENTION BASIN #2 SECTION F-F
OF-DWG-PROP-00CP11



DETENTION BASIN #1 SECTION B-B
OF-DWG-PROP-00CP11

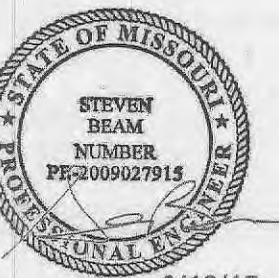


DETENTION BASIN #2 SECTION G-G
OF-DWG-PROP-00CP11



DETENTION BASIN #1 SECTION C-C
OF-DWG-PROP-00CP11

NOTE: THE 6" PERFORATED PVC UNDERDRAIN PIPE SHALL EXTEND TO WITHIN 5' OF THE EDGE OF THE "BIORETENTION" ENGINEERED SOIL.



6/10/15

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"RECORD DRAWINGS"

REV	PROJ ID	DATE	DRWN	RVM	APPR

DETENTION BASIN PLANS & SECTIONS

OF FALLON RENEWABLE ENERGY CENTER



Ameren OF-DWG-PROP-00CP11 REV 0

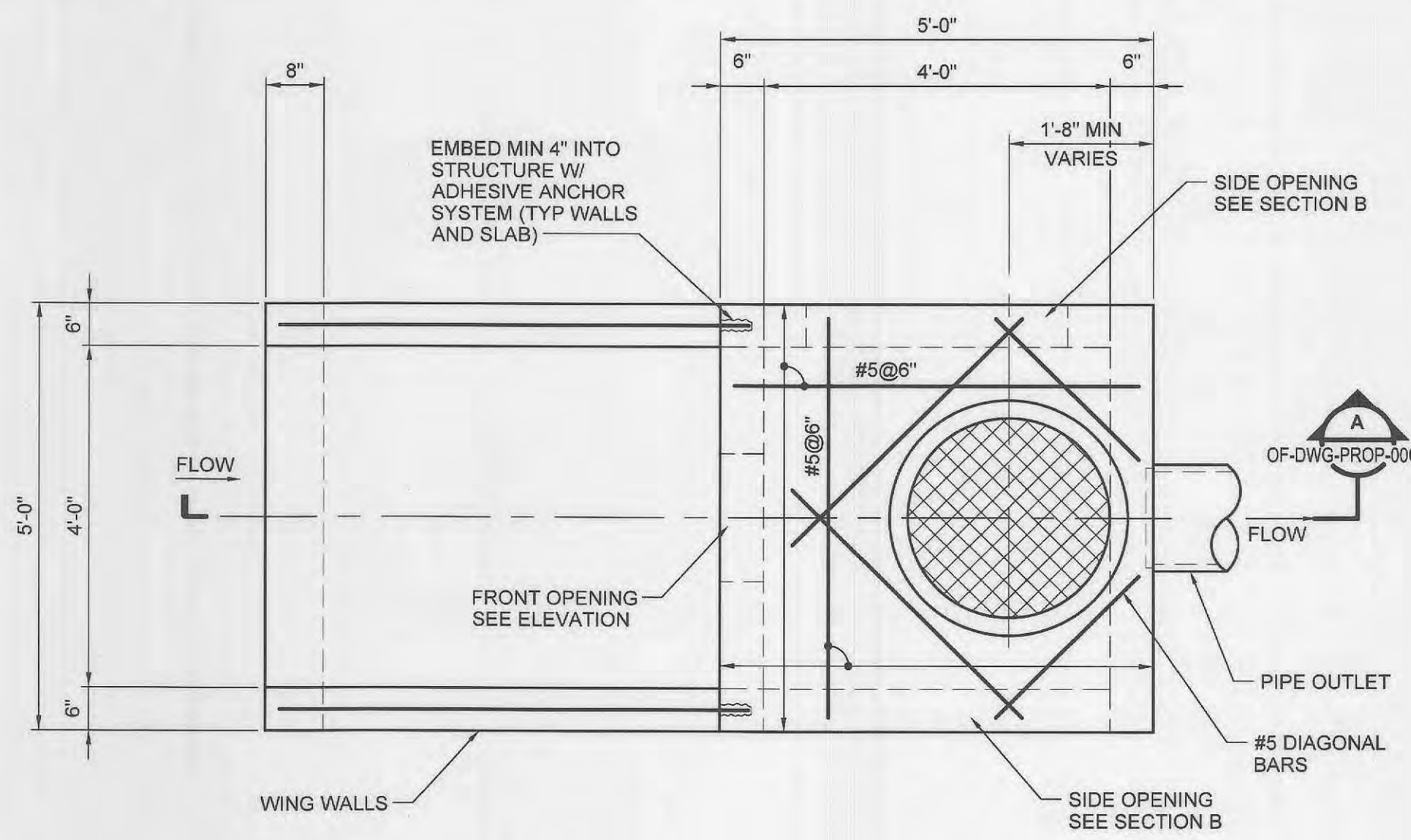
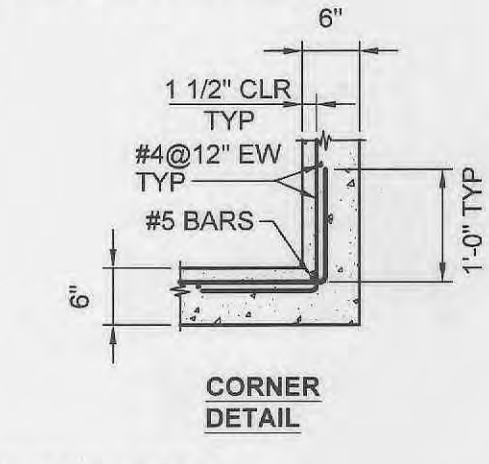
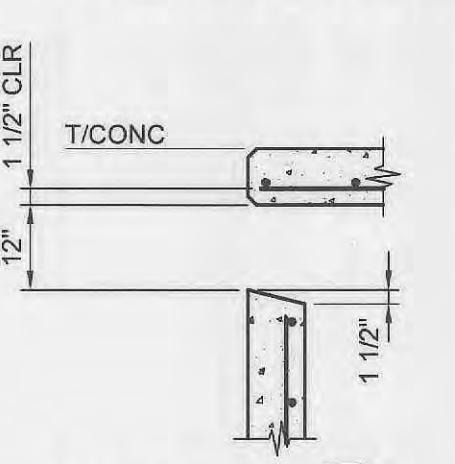


TABLE 1

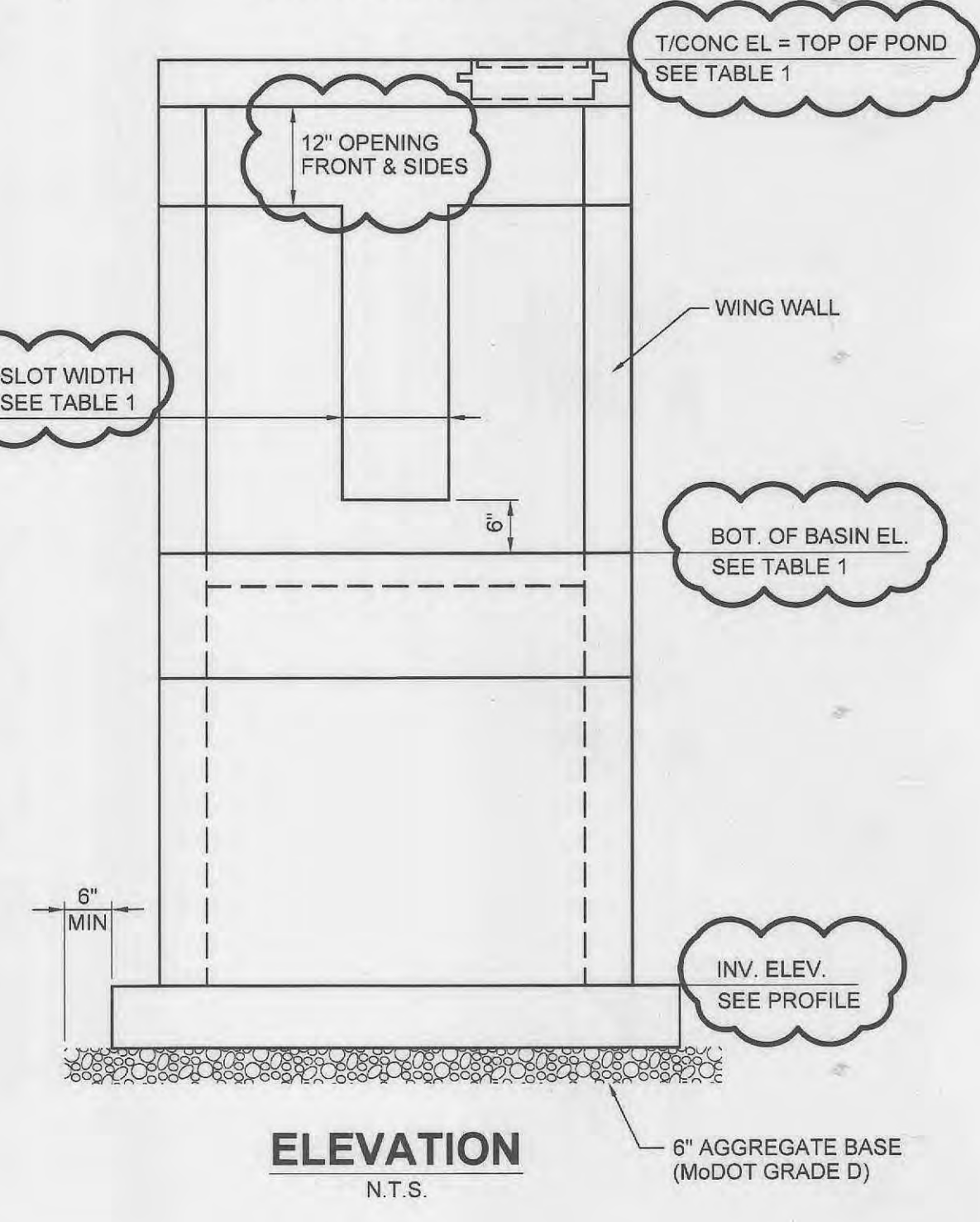
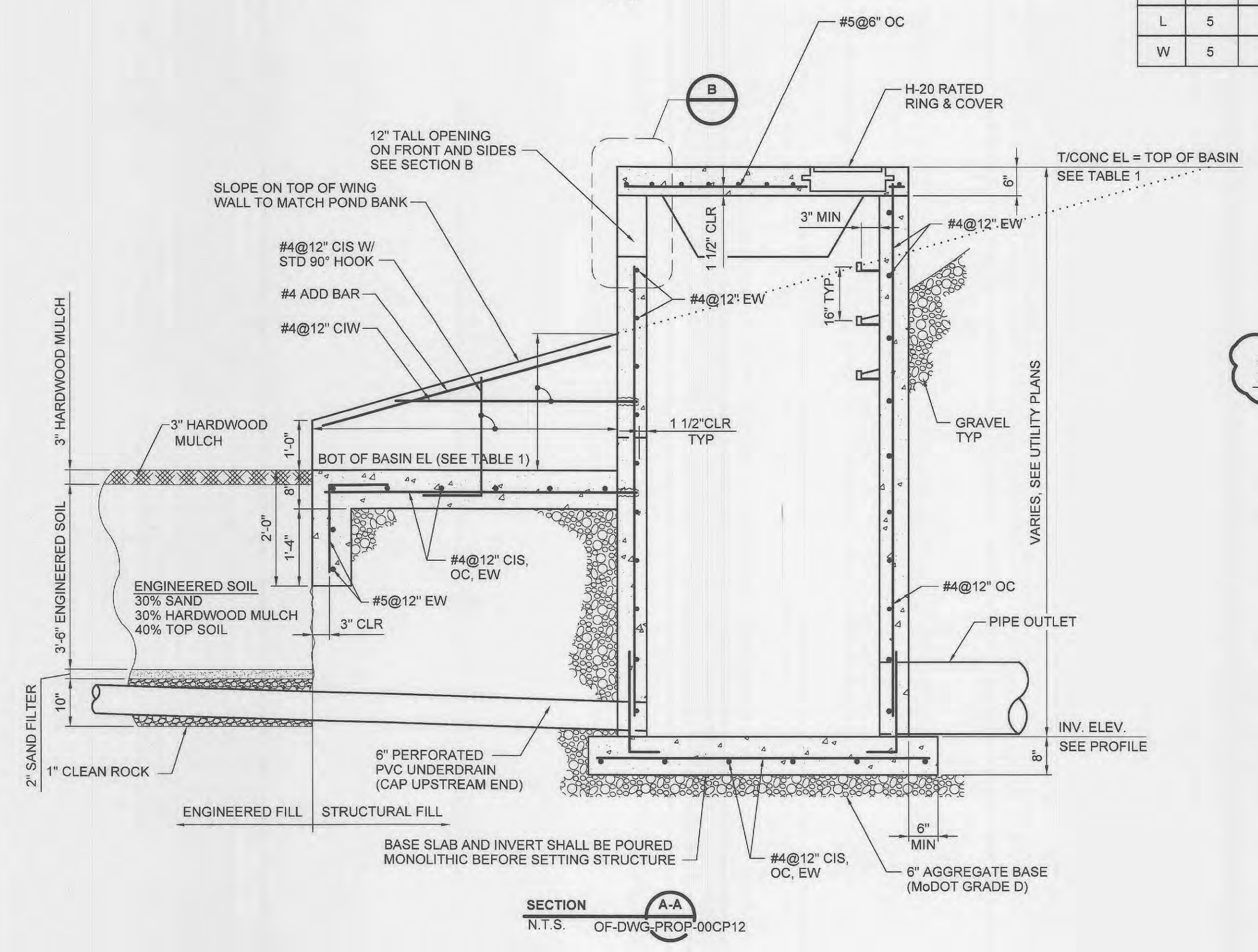
	SLOT WIDTH	BOTTOM OF BASIN ELEVATION	TOP OF BASIN ELEVATION
BASIN 1	8"	494.9	501.9
BASIN 2	12"	496.4	502.8



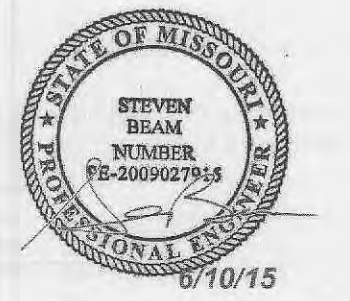
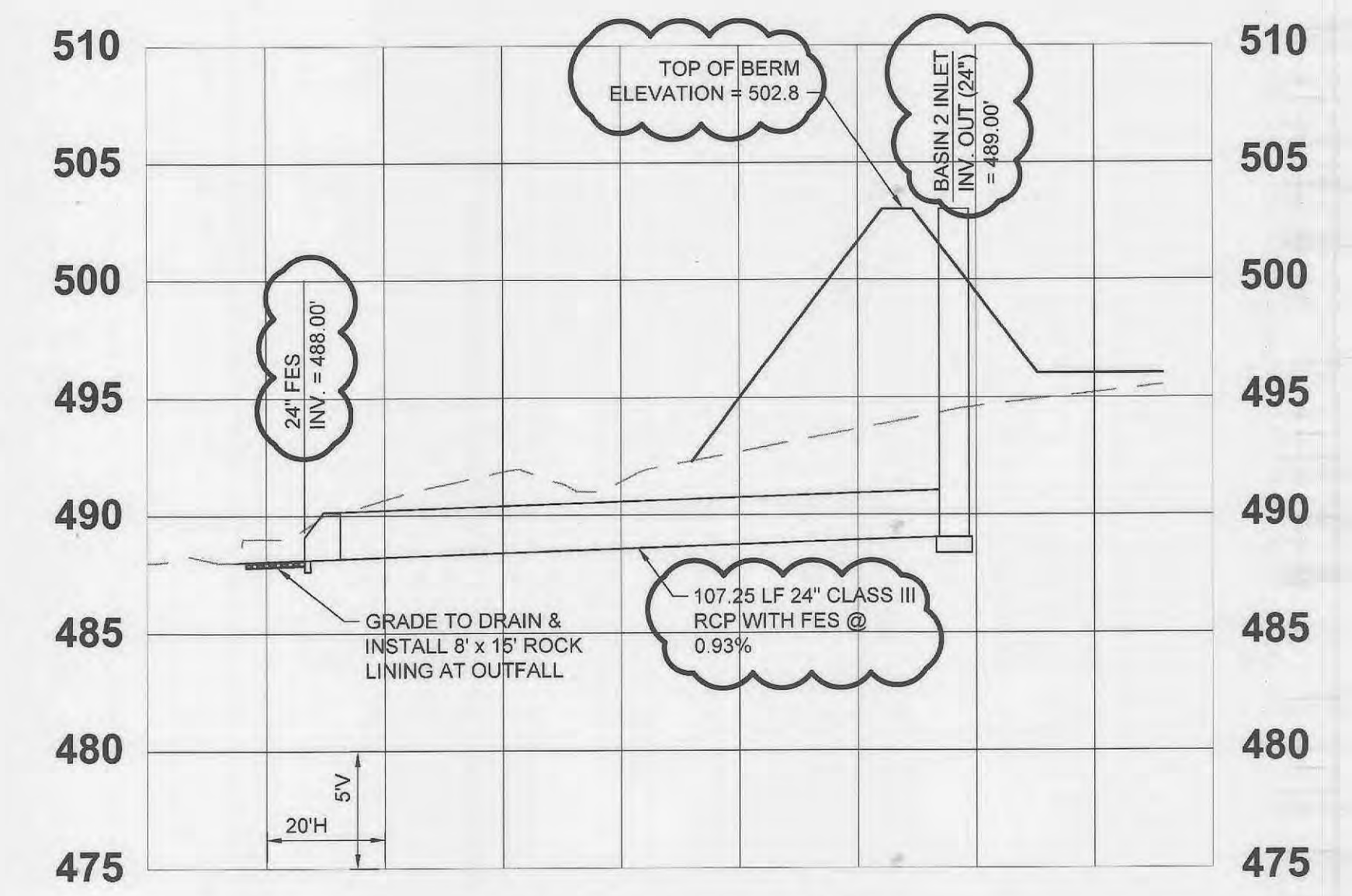
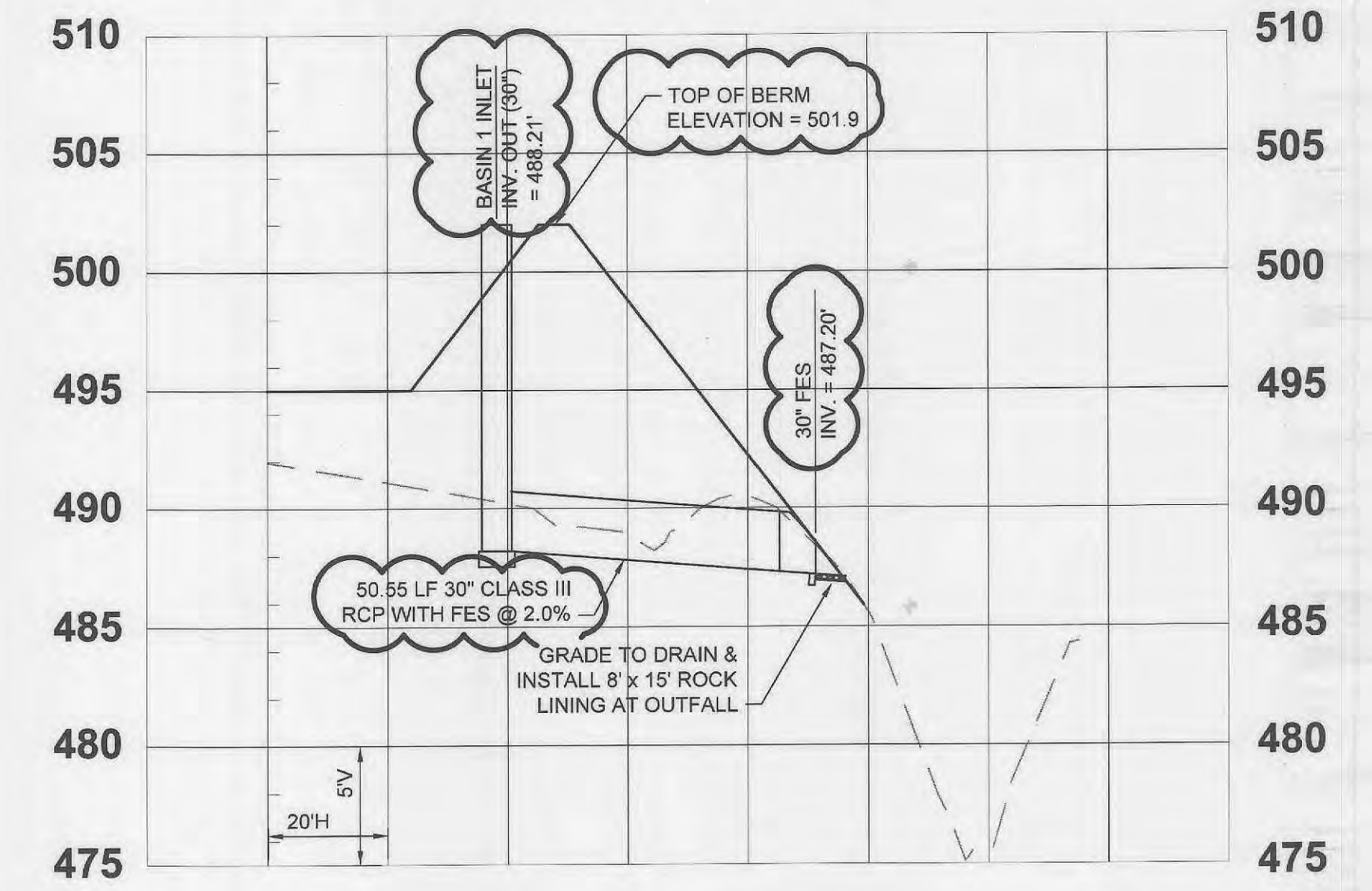
GENERAL NOTES:
1. LOCATE RING AND COVER OVER OUTLET.
2. USE 3/4" CHAMFER STRIP ON ALL EXPOSED CONCRETE CORNERS.
3. STEPS REQUIRED AT 16" O.C. WHEN DEPTH FROM TOP OF STRUCTURE TO INVERT EXCEEDS 4'.
4. BOXOUTS IN WALLS WILL NOT BE ALLOWED TO PROJECT THROUGH THE CORNERS OF THE STRUCTURE.
5. THE MINIMUM REINFORCING SHALL BE 1 H-BAR OVER A CAST-IN PLACE PIPE AND 2 H-BARS OVER A PRECAST BOXOUT.
6. O.R. = OUTSIDE PIPE RADIUS.
7. MANHOLE RING & COVER TO BE H-20 RATED OR APPROVED EQUAL.
8. DISCHARGE STRUCTURE MAY BE CONSTRUCTED CAST-IN-PLACE OR PRECAST AT CONTRACTORS DISCRETION.

REINFORCING

BARS	BAR SIZE	SPACING (IN.)
H	4	12
V	4	12
L	5	6
W	5	6



BASIN DISCHARGE STRUCTURE DETAILS



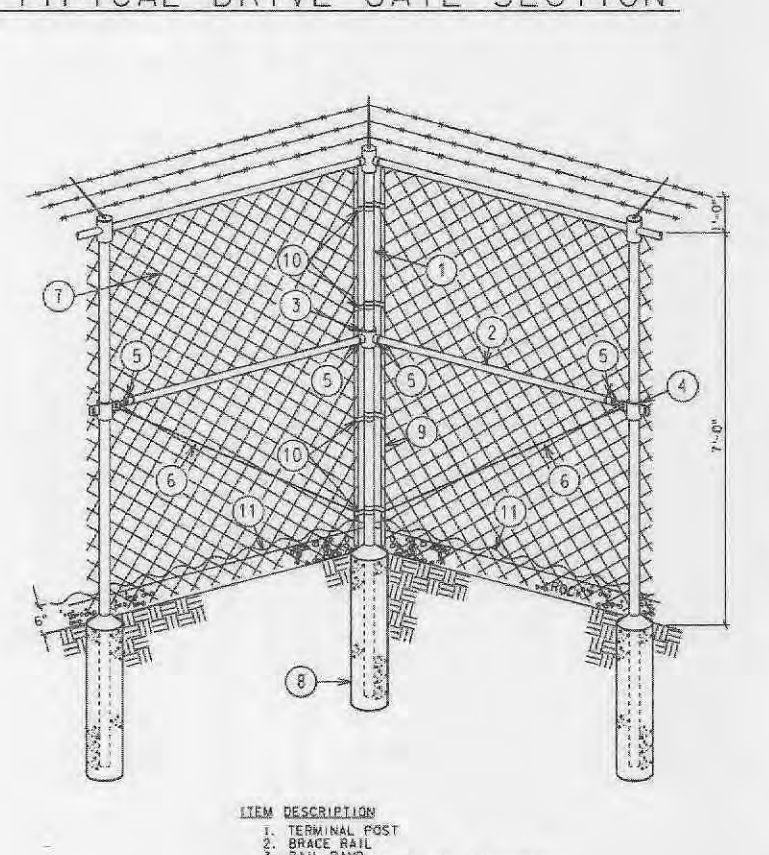
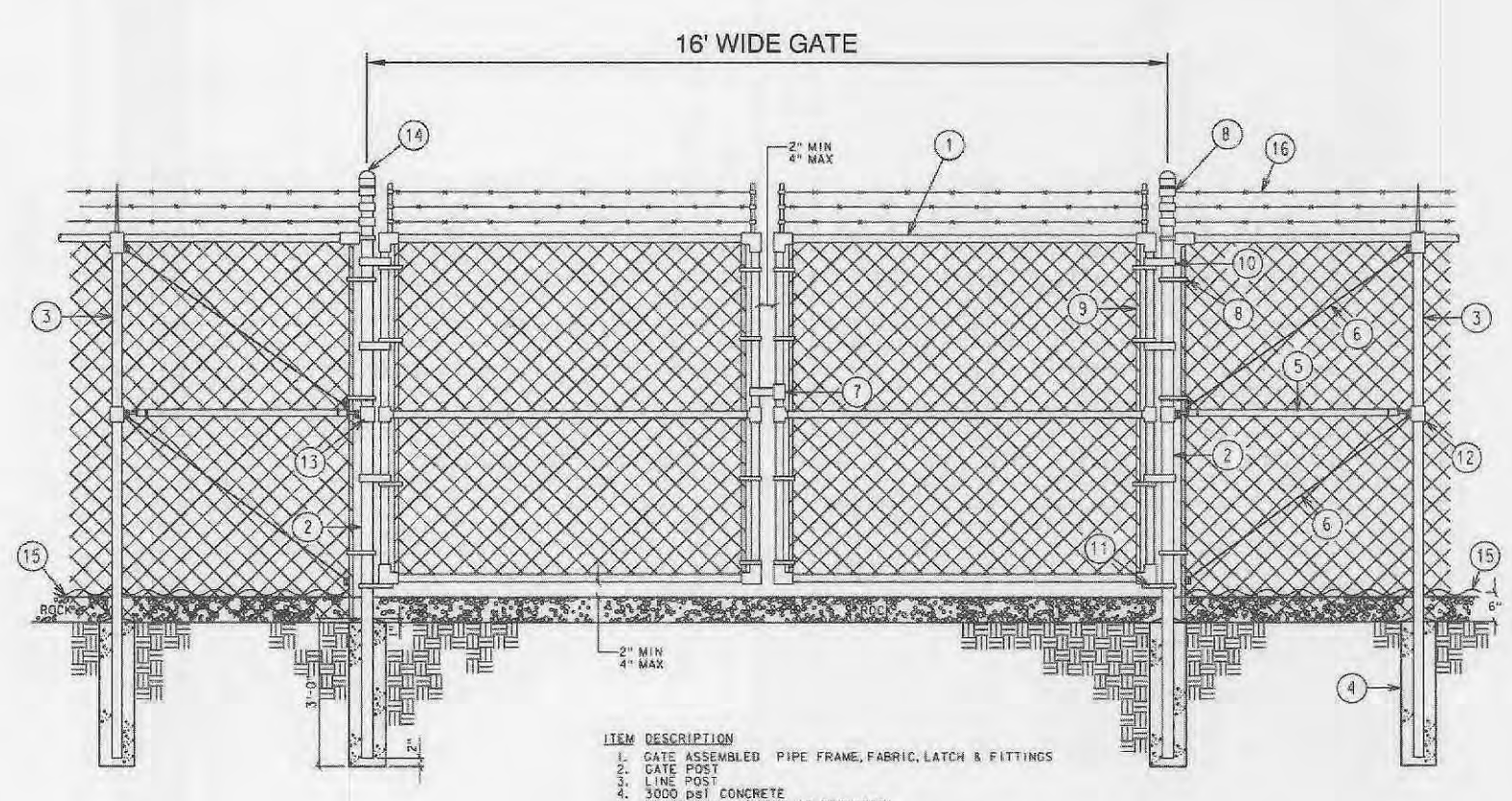
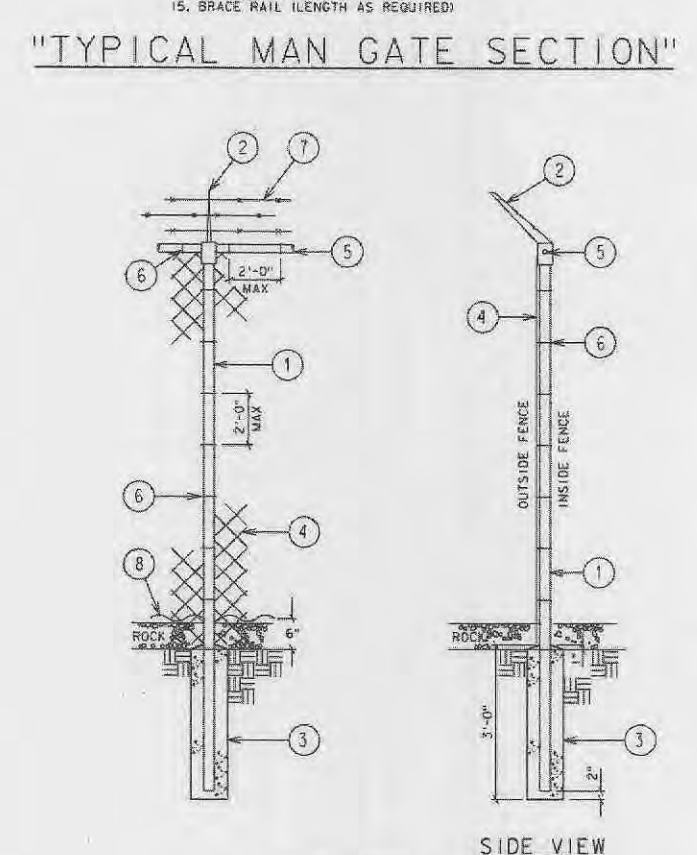
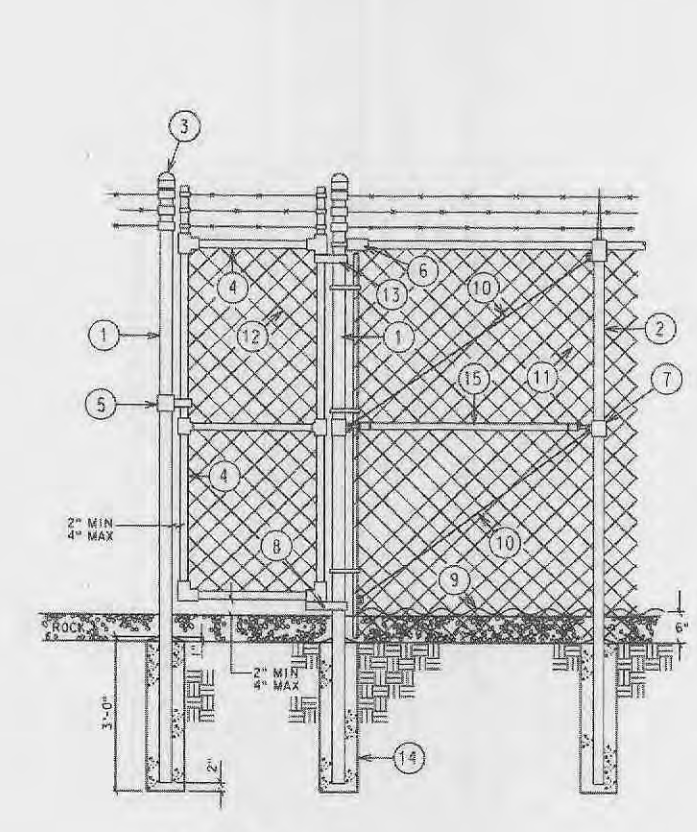
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"RECORD DRAWINGS"

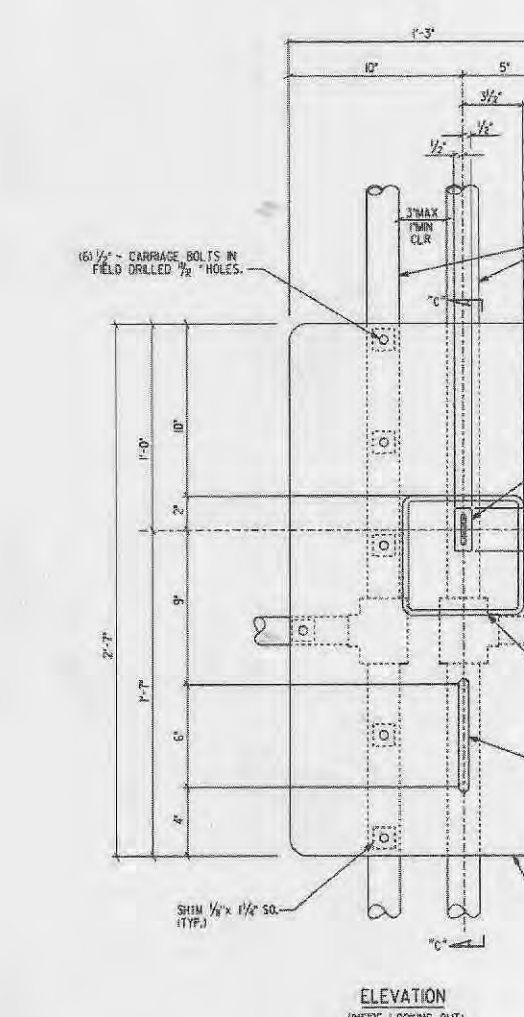
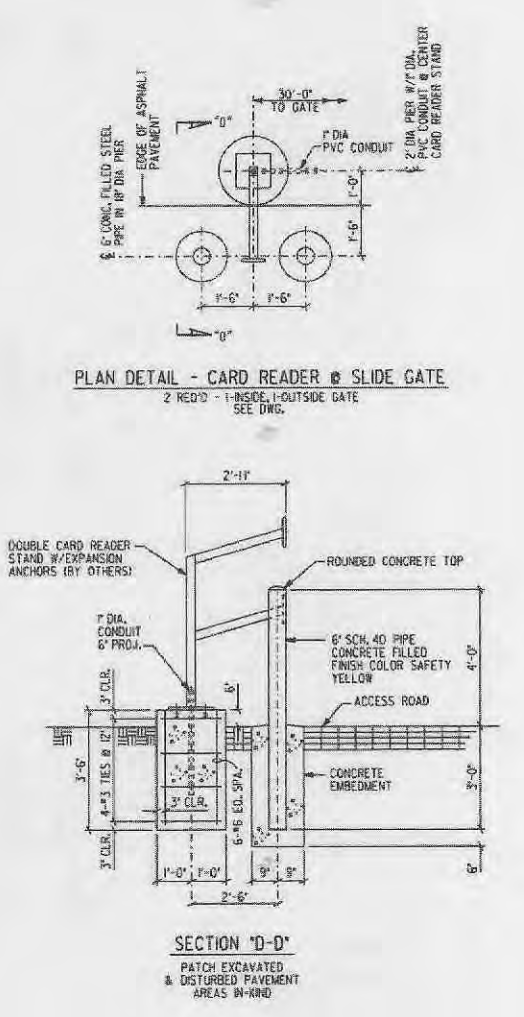


REV	PROJ ID	DATE	DRWN	RVM	APPR

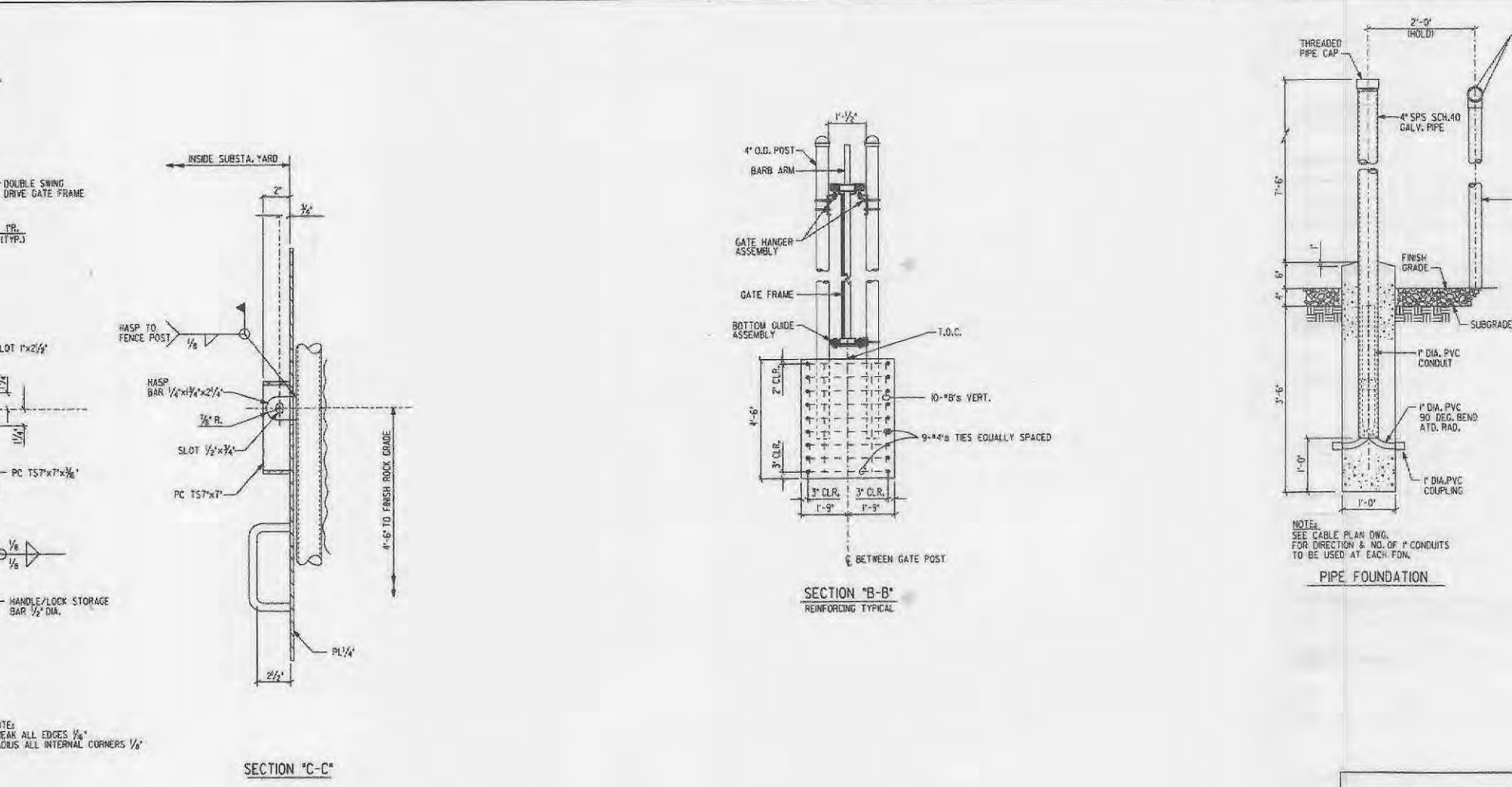
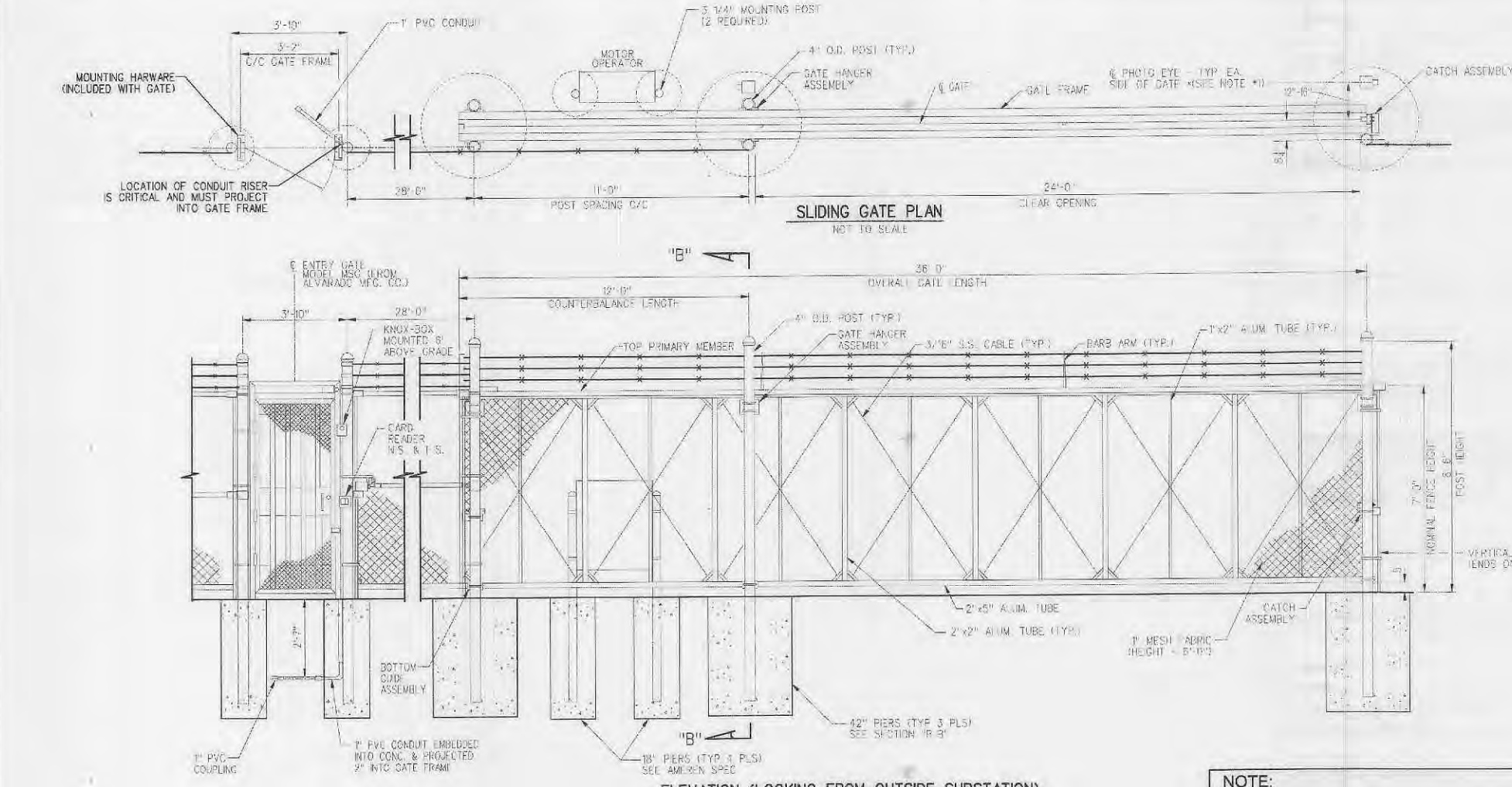
DETENTION BASIN DETAILS
OFFALLON RENEWABLE ENERGY CENTER
OF-DWG-PROP-00CP12



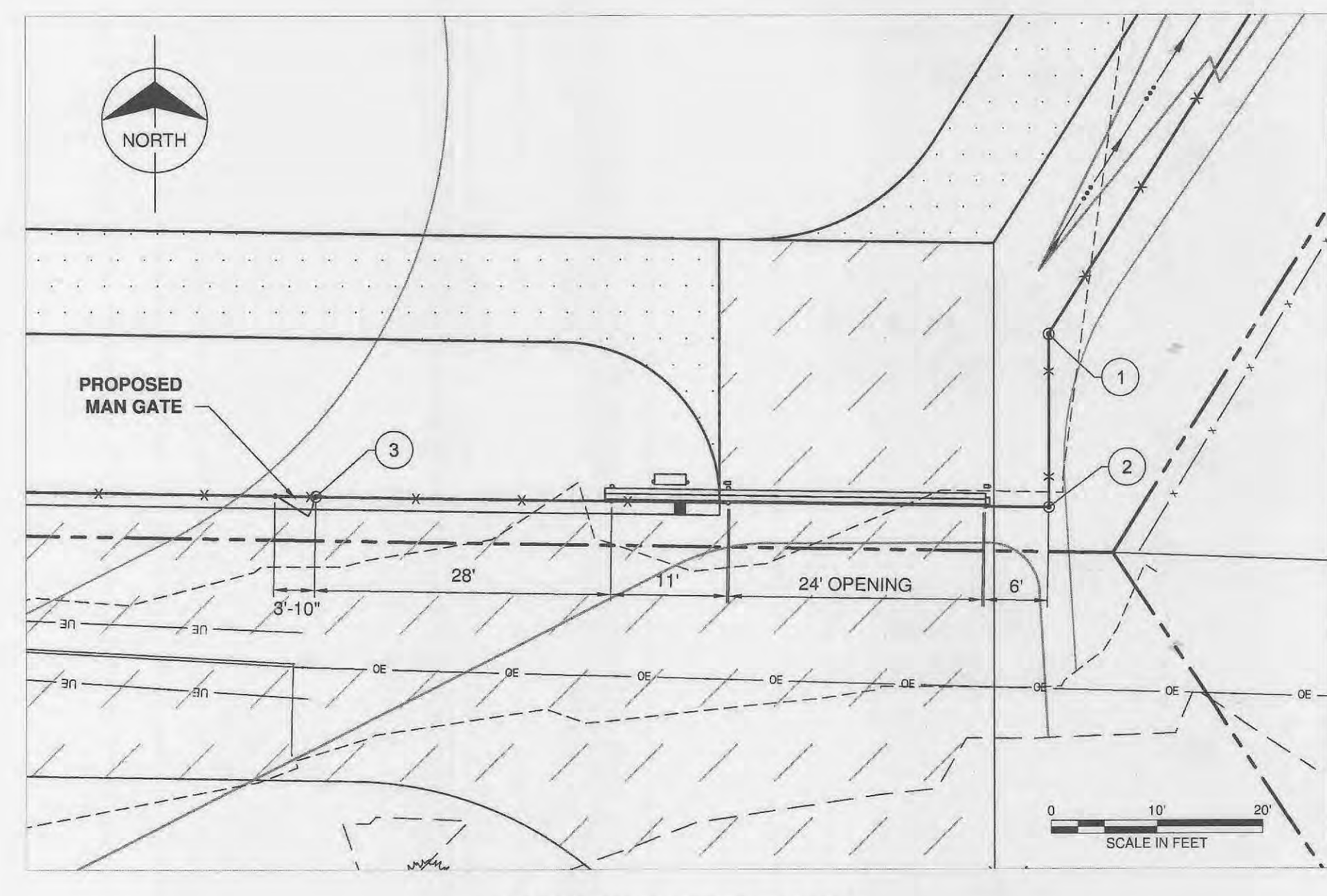
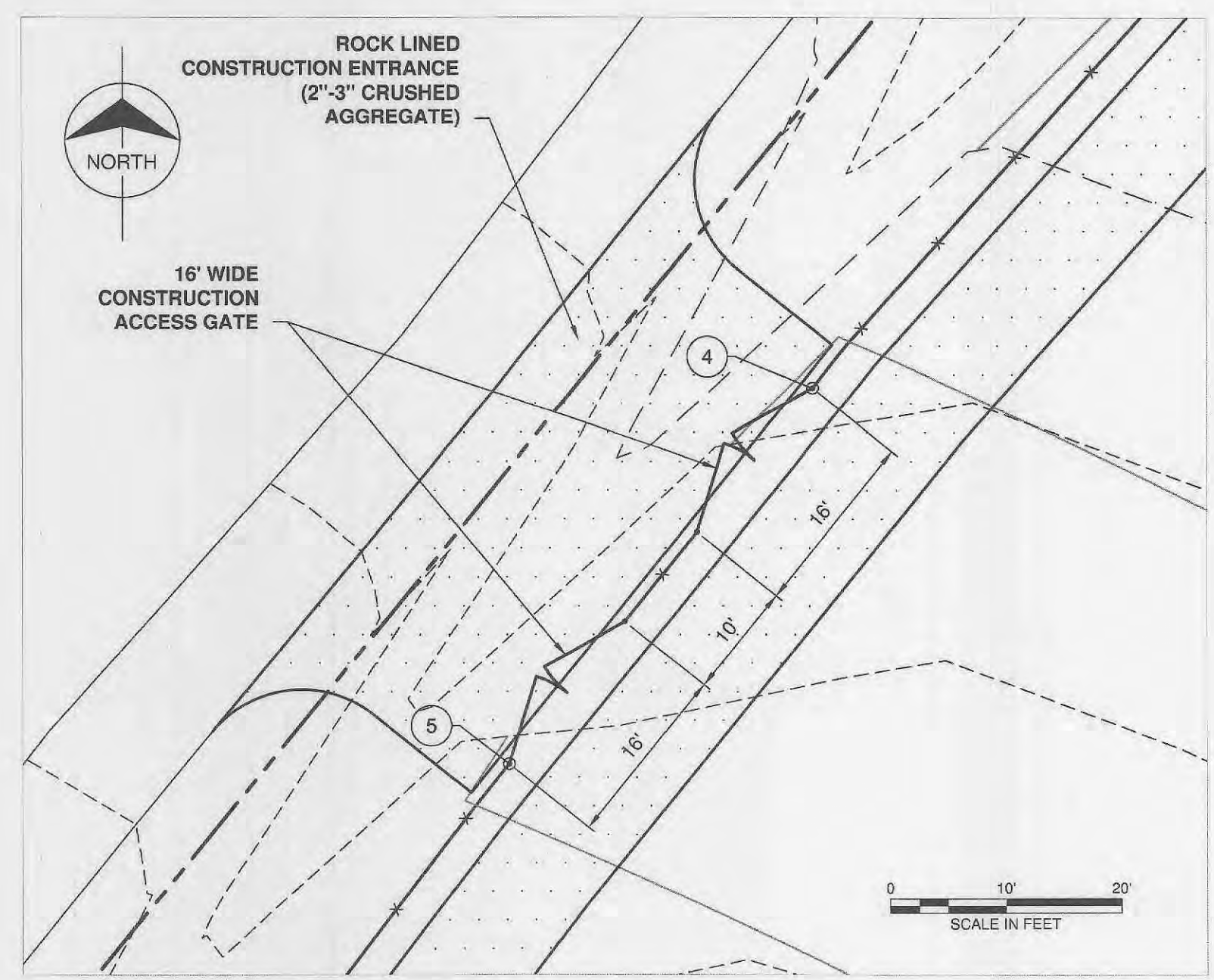
FENCE & GATE EXAMPLES



INSIDE ACCESS ONLY LOCK DETAIL



GATE & MISC. DETAILS EXAMPLES



POINT	NORTHING	EASTING
1	1089425.31	769916.77
2	1089408.92	769916.77
3	1089410.03	769847.44
4	1090618.86	769205.26
5	1090586.14	769178.93

NOTE: COORDINATES SHOWN ARE APPROXIMATE POST LOCATIONS BASED ON THE DESIGN PLAN. ACTUAL POST LOCATIONS SHOULD BE FIELD ADJUSTED TO MATCH THE TYPICAL SECTIONS SHOWN ON SHEET OF-DWG-PROP-00CP02 BASED ON THE ACTUAL CONSTRUCTION CONDITIONS.

NOTE: THE DETAILS SHOWN ON THIS SHEET ARE AMEREN TYPICAL FENCE DETAILS AS PROVIDED IN SECTION 02831 OF THE CONTRACT SPECIFICATION "POS-SPEC-000139" FOR PHOTOVOLTAIC SOLAR POWER INSTALLATION AT BELLEAU SUBSTATION.

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"RECORD DRAWINGS"

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Burns & McDonnell
SINCE 1854

Date: 03/31/2015
Mark R. Harrison
Professional Engineer
#E 22292

REV	PROJ ID	DATE	DRWN	RVW	APPR

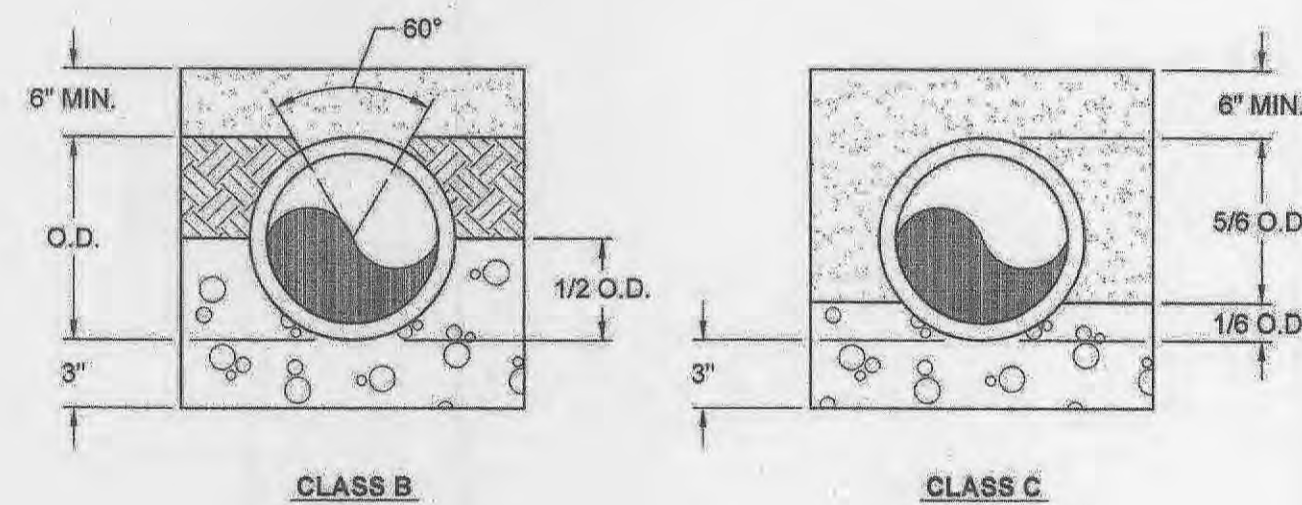
TYPICAL FENCE DETAILS
OFALLON RENEWABLE ENERGY CENTER
OF-DWG-PROP-00CP13
0

BENDS	"B"	"C"	"D"	"E"	"F"
6"-11 1/4"	8"	15"	12"	24"	10"
6"-22 1/2"	8"	19"	12"	24"	13"
6"-45"	8"	30"	12"	24"	15"
6"-90"	8"	30"	12"	24"	28"
8"-11 1/4"	8"	20"	12"	24"	10"
8"-22 1/2"	8"	22"	12"	24"	18"
8"-45"	8"	31"	12"	24"	24"
8"-90"	8"	38"	12"	24"	36"
12"-11 1/4"	8"	30"	12"	24"	15"
12"-22 1/2"	8"	35"	12"	24"	25"
12"-45"	8"	40"	12"	24"	40"
12"-90"	8"	60"	12"	24"	52"
18"-11 1/4"	TL	28"	20"	24"	28"
18"-22 1/2"	TL	39"	20"	24"	39"
18"-45"	TL	55"	20"	24"	55"
18"-90"	TL	91"	20"	24"	60"
20"-11 1/4"	TL	34"	24"	26"	28"
20"-22 1/2"	TL	48"	24"	26"	39"
20"-45"	TL	74"	24"	26"	55"
20"-90"	TL	136"	24"	26"	60"
24"-11 1/4"	TL	40"	28"	28"	40"
24"-22 1/2"	TL	56"	28"	28"	56"
24"-45"	TL	101"	28"	28"	60"
24"-90"	TL	188"	28"	28"	60"
30"-11 1/4"	TL	49"	34"	30"	49"
30"-22 1/2"	TL	79"	34"	30"	60"
30"-45"	TL	154"	34"	30"	60"
30"-90"	TL	285"	34"	30"	60"

TEES	"G"	"H"	"J"	"K"
6"X6"X6"	12"	24"	24"	18"
8"X8"X8"	12"	24"	24"	18"
6"X8"X8"	12"	27"	24"	27"
12"X12"X8"	12"	24"	24"	18"
12"X12"X8"	12"	27"	27"	27"
12"X12"X12"	12"	38"	24"	38"
24"X24"X16"	16"	53"	28"	53"

- NOTES:
- THE 2" FITTINGS SHALL BE CONSIDERED EQUIVALENT TO 9" FITTINGS.
 - TAPPING SLEEVES SHALL HAVE THRUST BLOCKS THE SAME SIZE AS REQUIRED FOR TEES.
 - "TL" IS TOTAL LENGTH OF FITTING MINUS CLEARANCE FOR BELLS.

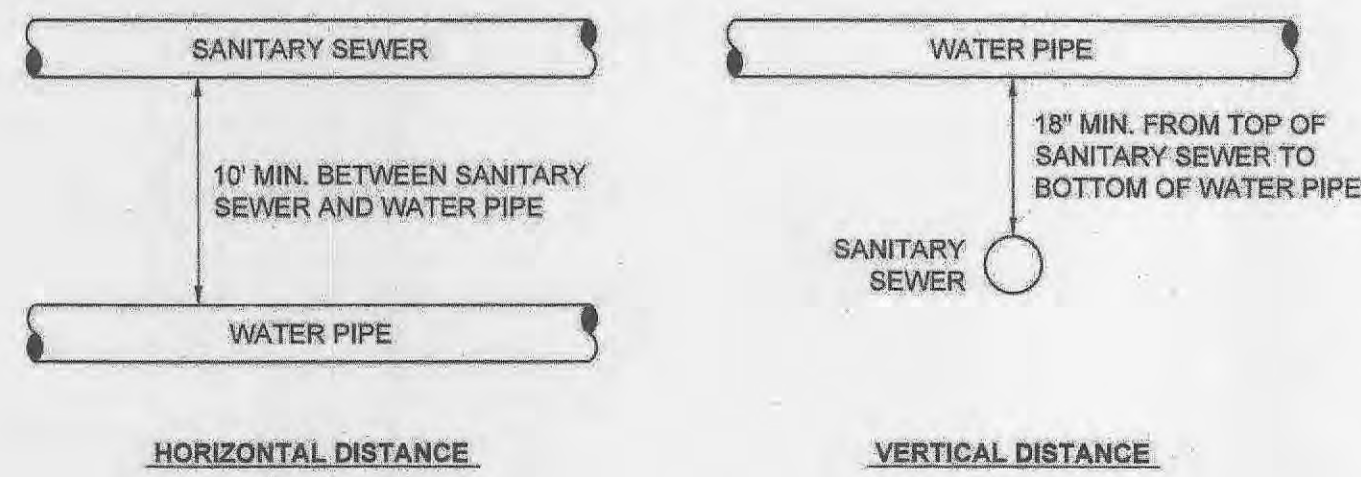
CONCRETE THRUST BLOCKS
NOT TO SCALE



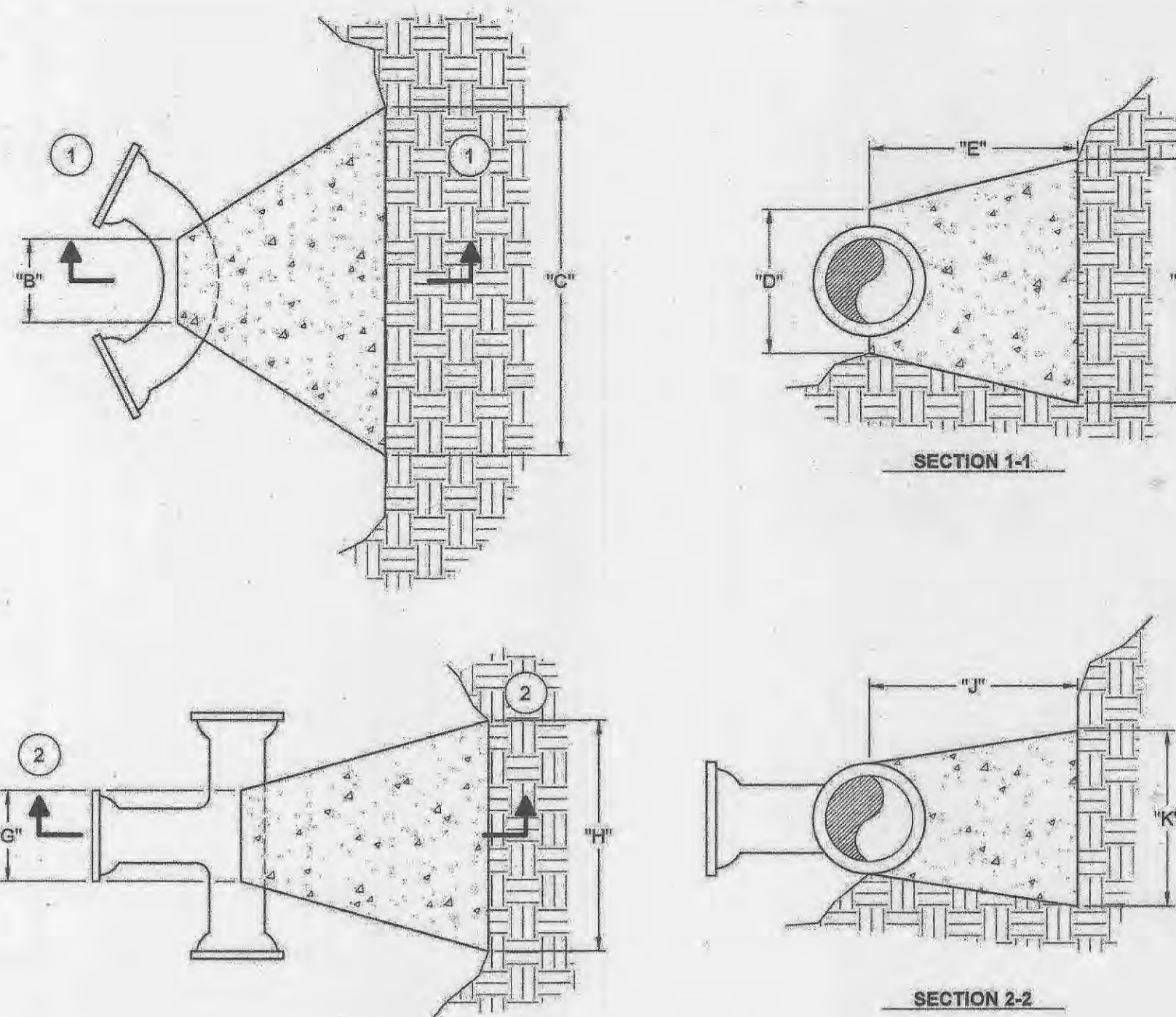
- LEGEND
- O.D. - OUTSIDE DIAMETER OF PIPE
 - TAMPED BACKFILL
 - COMPACTED BACKFILL
 - GRANULAR BEDDING

- NOTES:
- GRANULAR BEDDING SHALL BE CRUSHED ROCK OR PEA GRAVEL WITH NOT LESS THAN 95% PASSING 1/2" AND NOT LESS THAN 95% RETAINED ON A #4; TO BE PLACED IN NOT MORE THAN 6" LAYERS AND COMPACTED BY SLICING WITH A SHOVEL OR VIBRATING.
 - COMPACTED BACKFILL SHALL BE FINELY DIVIDED JOB EXCAVATED MATERIAL FREE FROM DEBRIS, ORGANIC MATERIAL AND STONES, PLACED IN UNIFORM LAYERS NOT MORE THAN 6" THICK, COMPACTED TO 95% MAXIMUM DENSITY AS DETERMINED BY ASTM D698, OR GRADED AGGREGATE. GRANULAR BACKFILL MATERIAL MAY BE SUBSTITUTED FOR ALL OR PART OF COMPACTED BACKFILL.
 - TAMPED BACKFILL SHALL BE FINELY DIVIDED JOB EXCAVATED MATERIAL FREE FROM DEBRIS, ORGANIC MATERIAL AND STONES, HAND PLACED IN UNIFORM LAYERS NOT MORE THAN 8" THICK AND TAMPED AROUND PIPE. GRANULAR BACKFILL MATERIAL MAY BE SUBSTITUTED FOR ALL OR PART OF TAMPED BACKFILL.
 - CLASS B EMBEDMENT SHALL BE UTILIZED UNDER ROADWAYS AND DRIVEWAYS AND CLASS C EMBEDMENT SHALL BE USED AT ALL OTHER LOCATIONS.
 - DISTURBED AREAS SHALL BE RE-SEEDDED OR RE-ROCKED TO MATCH THE EXISTING GROUND CONDITIONS.

WATER MAIN EMBEDMENT
NOT TO SCALE

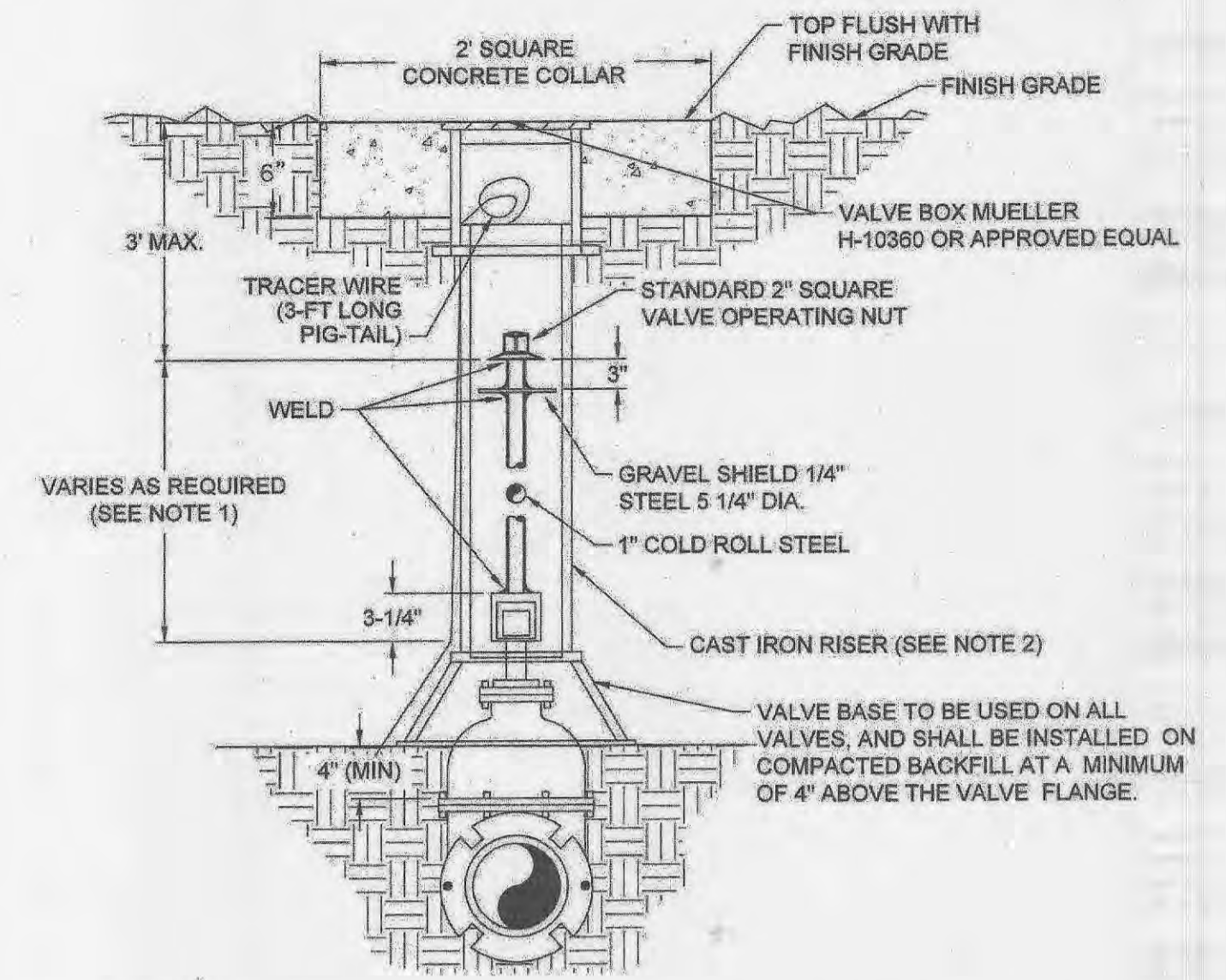


TYPICAL WATER AND SEWER SEPARATION
NOT TO SCALE



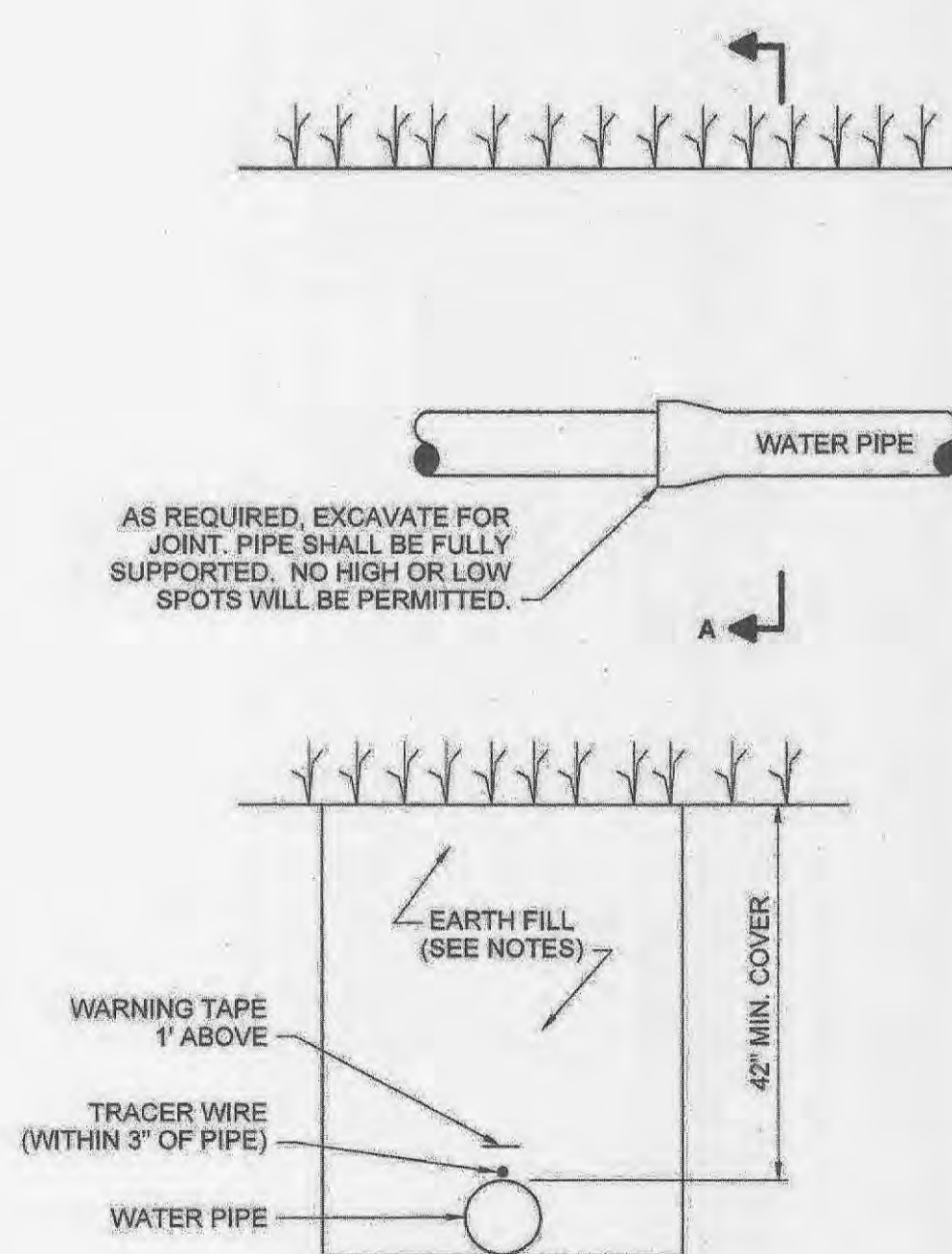
SECTION 1-1

SECTION 2-2



- NOTES:
- THE 1" STEEL ROD EXTENSION IS ONLY REQUIRED WHERE THE VALVE OPERATING NUT IS GREATER THAN 3 FEET BELOW FINISH GRADE.
 - VALVE BOXES SHALL BE CAST IRON ADJUSTABLE SCREW TYPE (5-1/4" SHAFT) WITH BASE, WATER COVER, AND SKIRT.

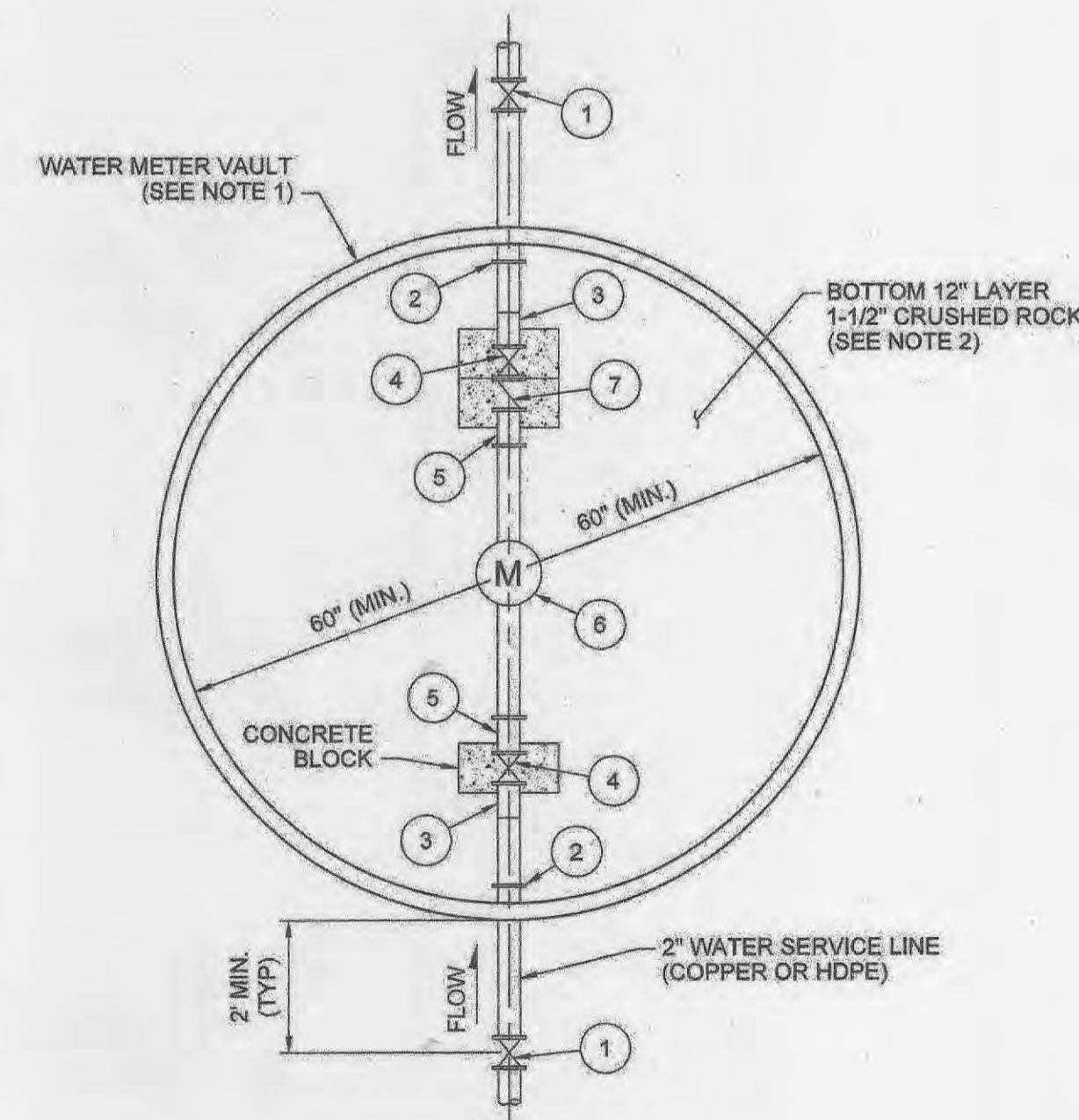
WATER VALVE AND VALVE BOX DETAIL
NOT TO SCALE



EARTH EXCAVATION
SECTION A-A

- NOTE:
- UNDER ROADWAYS AND DRIVEWAYS, BACKFILL SHALL BE CRUSHED STONE OR GRAVEL COMPACTED IN TEN (10) INCH LAYERS.
 - EARTHEN BACKFILL SHALL BE WATER JETTED FOR COMPACTION.

TYPICAL WATER MAIN INSTALLATION DETAIL
NOT TO SCALE



- 1 VALVE AND VALVE BOX
2 MECHANICAL COUPLING
3 CONNECTOR
4 BALL VALVE
5 SPOOL PIECE
6 WATER METER, SEE NOTE 3
7 SWING CHECK VALVE

WATER METER VAULT DETAIL
NOT TO SCALE

- WATER METER VAULT NOTES:
- METER VAULT SHALL BE A PRECAST CONCRETE MANHOLE SECTION WITH A FLAT TOP SLAB, A PREFABRICATED RIGID PVC VAULT SUCH AS MUELLER EZ-VAULT, OR AN APPROVED EQUAL.
 - IF CONTRACTOR PROPOSES A VAULT WITH NO BOTTOM SLAB, THE METER VAULT SHALL BE PLACED ON A 12-INCH LAYER OF CRUSHED ROCK. THE CRUSHED ROCK LAYER SHALL EXTEND ONE (1) FOOT BEYOND THE OUTSIDE DIMENSIONS OF THE VAULT IN ALL DIRECTIONS.
 - WATER METER SHALL BE A 2-INCH METER MEETING THE REQUIREMENTS OF THE APPLICABLE AWWA STANDARD (AWWA C700, AWWA C710, ETC.). CONTRACTOR SHALL SUBMIT THE METER MAKE AND MODEL TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION OF THE METER.
 - METER VAULT SHALL BE MINIMUM 60-INCH DIAMETER AND SHALL BE SIZED SUCH THAT 12 INCHES OF CLEARANCE IS ESTABLISHED BETWEEN THE METER VAULT WALLS AND ALL VALVE AND FITTINGS.
 - METER VAULT SHALL BE WATER TIGHT, INCLUDING PIPE PENETRATIONS.
 - ALL VALVES SHALL BE SUPPORTED WITH CONCRETE BLOCKS OR ADJUSTABLE PIPE SUPPORTS.
 - ALL VALVES NOT SHOWN WITHIN THE METER VAULT SHALL BE DIRECT-BURIED WITH VALVE BOXES.
 - METER VAULT SHALL BE EQUIPPED WITH STEPS/RUNGS SPACED 16 INCHES ON CENTER FOR ACCESS.
 - METER VAULT SHALL BE INSTALLED WITH A 24-INCH DIAMETER MANHOLE COVER THAT IS CENTERED OVER THE STEPS/RUNGS.
 - CONTRACTOR SHALL SUBMIT THE METER VAULT TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION OF THE METER VAULT.

THIS RECORD DRAWING HAS BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THIS RECORD DRAWING OR FOR ANY ERRORS OR OMISSIONS THAT MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT OF INCORRECT INFORMATION PROVIDED TO THE ENGINEER. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY.

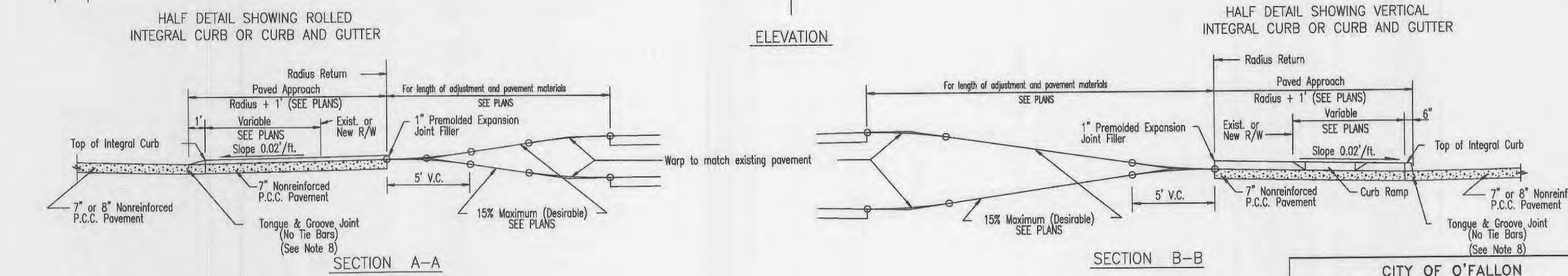
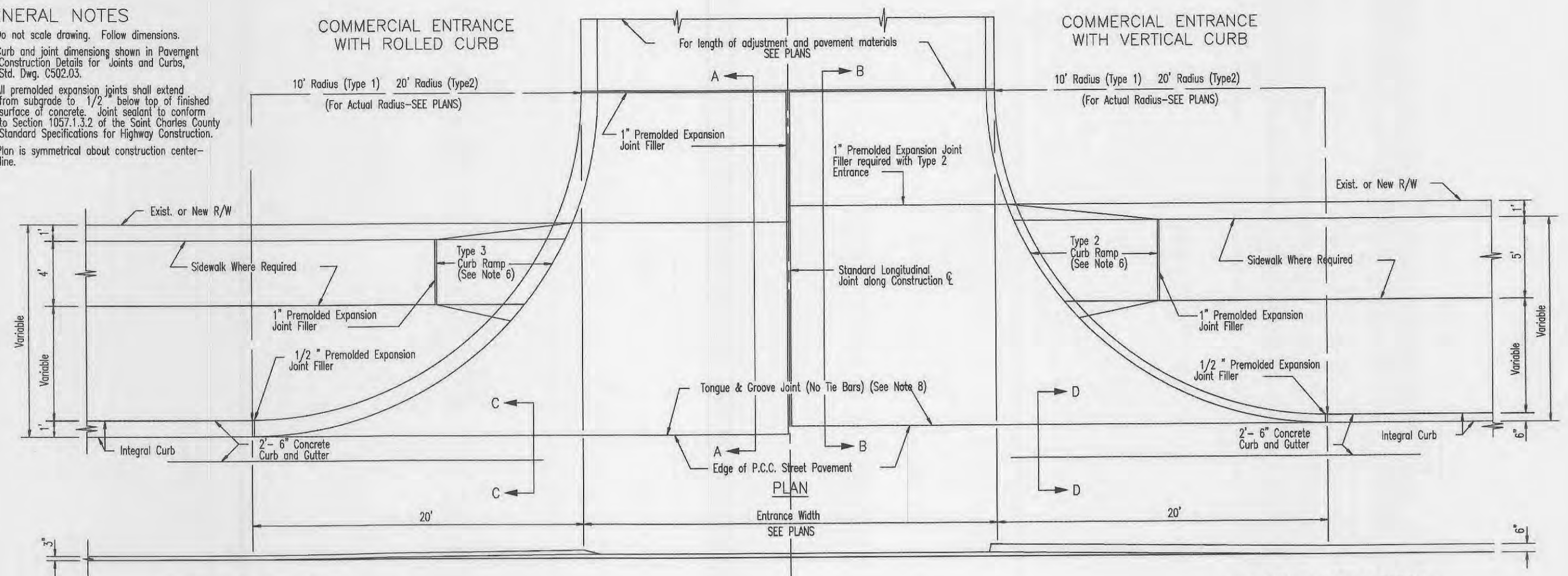
"RECORD DRAWINGS"

BMCD# 77051
Burns & McDonnell

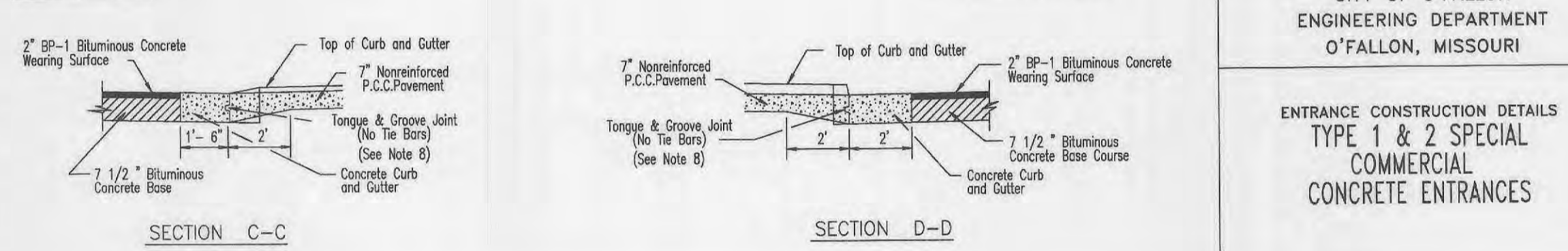
REV	PROJ ID	DATE	DRWN	REV	APPR

WATER LINE DETAILS
OFALLON RENEWABLE ENERGY CENTER
OF-DWG-PROP-00CP15

- GENERAL NOTES**
1. Do not scale drawing. Follow dimensions.
 2. Curb and joint dimensions shown in Pavement Construction Details for Joints and Curbs, Std. Dwg. C020.03.
 3. All preformed expansion joints shall extend from subgrade to 1/2" below top of finished surface of concrete. Joint region to conform to Section 1027.1.1.2 of the South Carolina County Standard Specifications for Highway Construction.
 4. Plan is symmetrical about construction centerline.

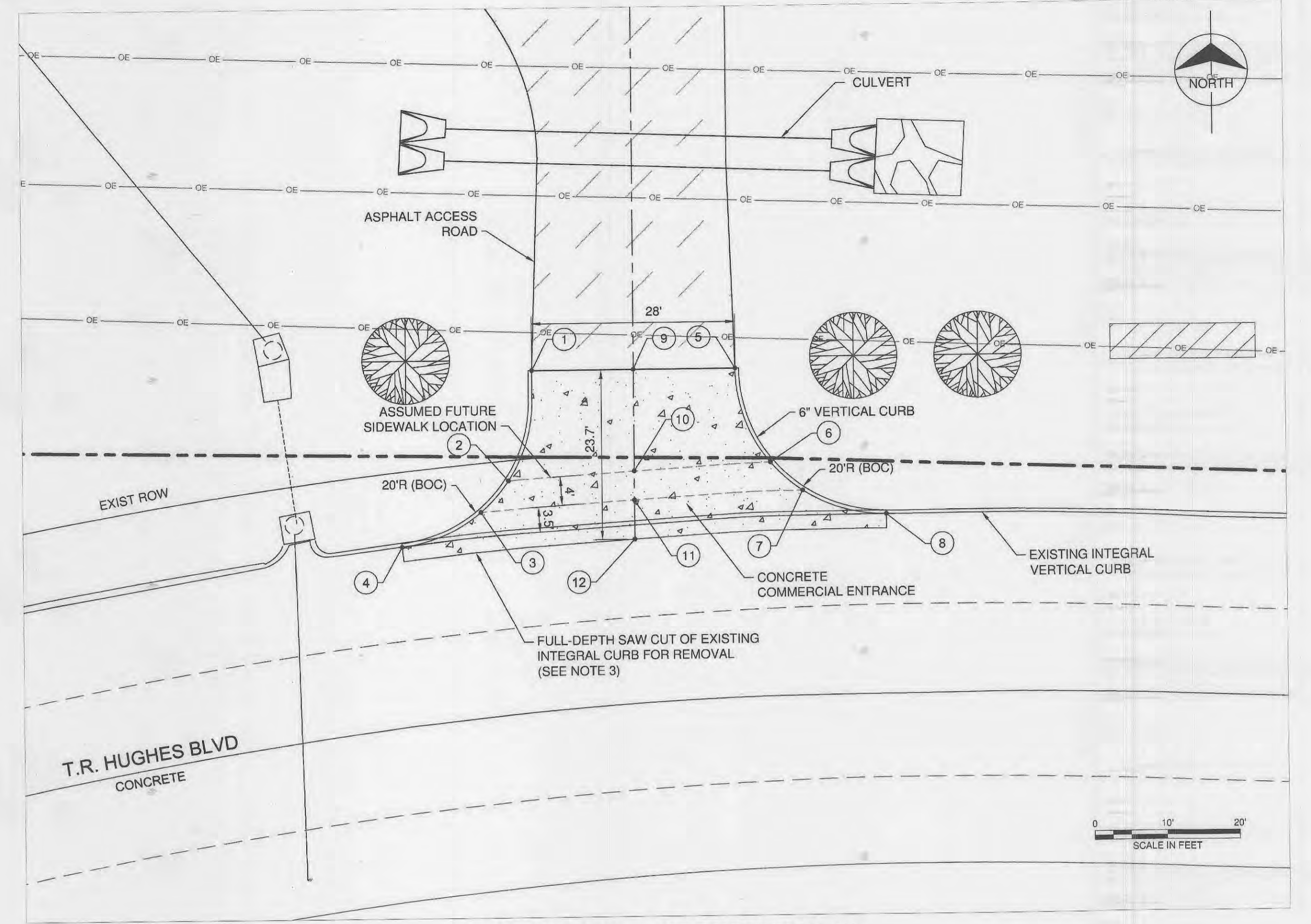


- or curb ramp on each side of the entrance shall be increased to match the driveway pavement thickness (7').
- Curb ramps are required with sidewalks and curbs.
- Preformed Expansion Joint Filler material shall consist of a solid polymer foam or sponge rubber product that exhibits at least 95% recovery when tested in accordance to ASTM D-5249.
- For new concrete entrance at existing pavement and curbing, sawcut of 1 foot and install tie bars, 5/8\"/>



CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

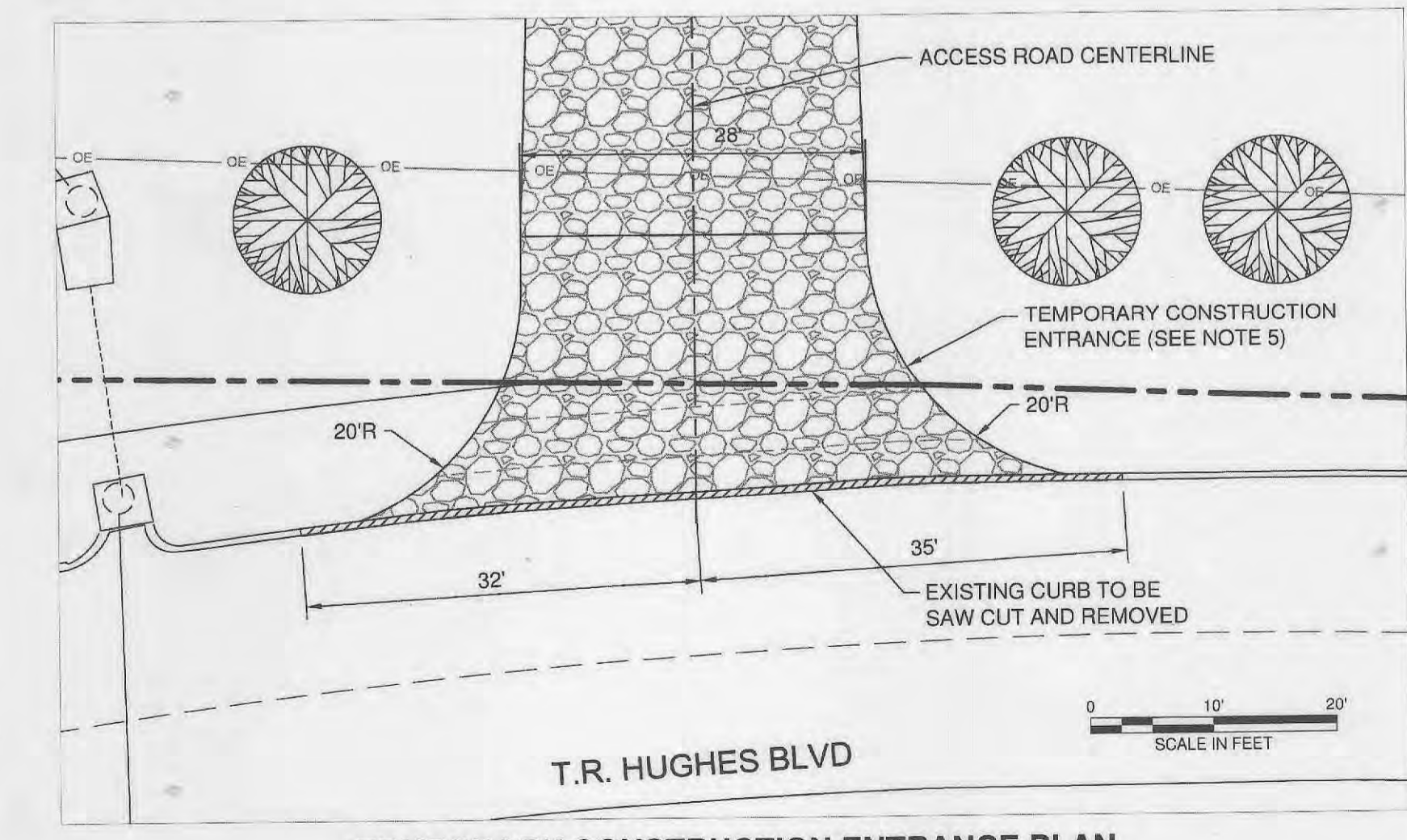
ENTRANCE CONSTRUCTION DETAILS
TYPE 1 & 2 SPECIAL
CONCRETE ENTRANCES



ENTRANCE COORDINATE TABLE & WARPING ELEVATIONS

POINT	NORTHING	EASTING	ELEVATION	REMARK
1	1089217.24	769884.60	501.69	GUTTER LINE / CURB FACE
2	1089201.94	769881.26	501.23	GUTTER LINE / CURB FACE
3	1089197.59	769877.43	501.24	GUTTER LINE / CURB FACE
4	1089192.82	769866.60	APPROX 501.41	GUTTER LINE - MATCH EXIST
5	1089217.24	769912.60	501.13	GUTTER LINE / CURB FACE
6	1089204.13	769917.35	500.40	GUTTER LINE / CURB FACE
7	1089200.16	769921.76	500.21	GUTTER LINE / CURB FACE
8	1089196.74	769933.25	APPROX 499.85	GUTTER LINE - MATCH EXIST
9	1089217.24	769898.60	501.41	CENTER LINE
10	1089203.09	769898.60	500.88	CENTER LINE
11	1089199.08	769898.60	500.80	CENTER LINE
12	1089193.57	769898.60	APPROX 500.77	CENTER LINE - MATCH EXIST

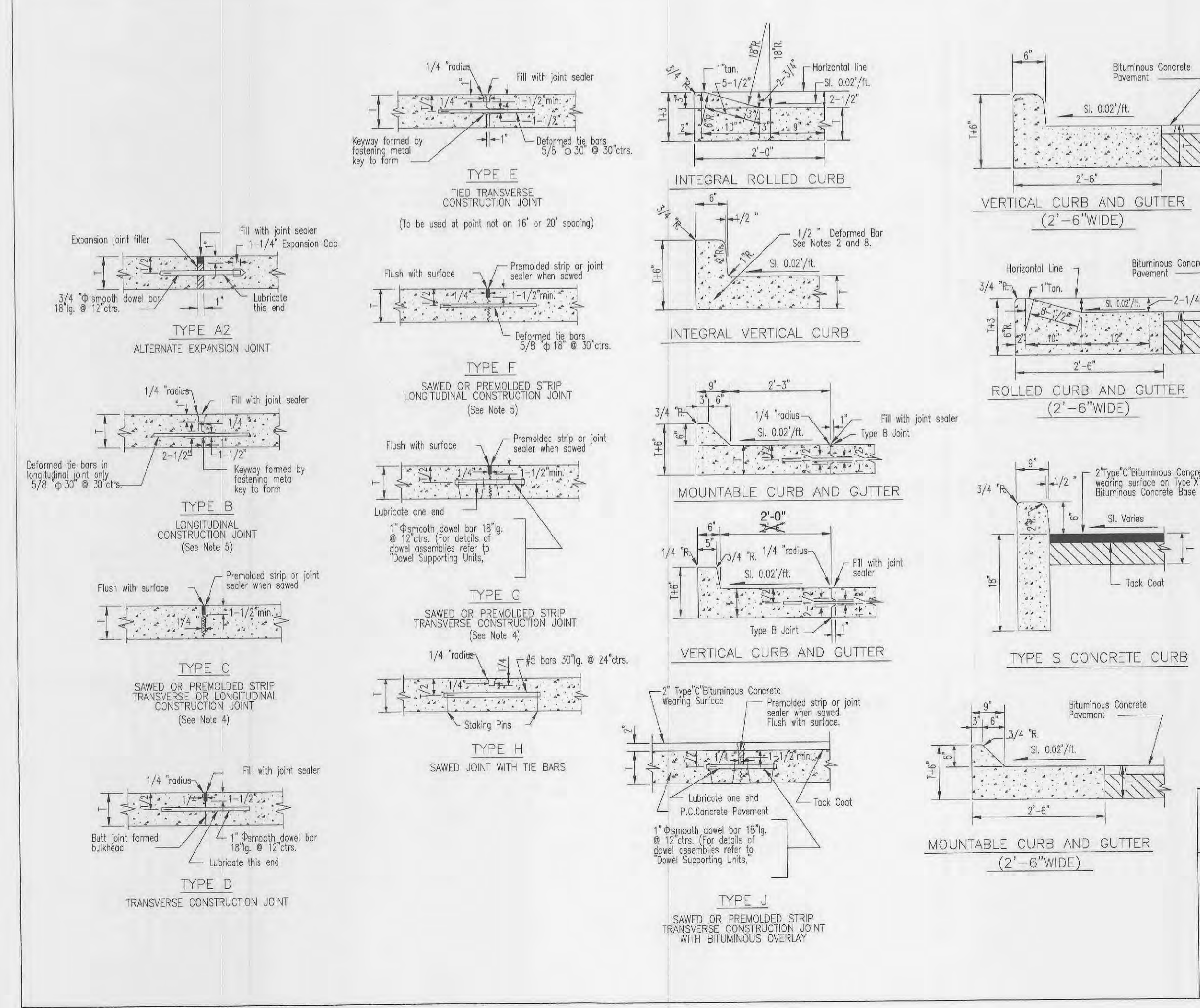
- NOTES:**
1. THE PAVEMENT DETAILS SHOWN ON THIS SHEET ARE CITY OF O'FALLON TYPICAL DETAILS AS PROVIDED BY THE CITY OF O'FALLON ENGINEERING DEPARTMENT.
 2. TYPE 2 COMMERCIAL ENTRANCE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "COMMERCIAL CONCRETE ENTRANCE DETAILS" AS SHOWN ON THIS SHEET.
 3. FULL DEPTH SAW CUT PAVEMENT REMOVAL SHALL BE TO THE NEAREST TRANSVERSE JOINT ALONG T.R. HUGHES BLVD.
 4. VERTICAL CURB AND GUTTER (2'-6" WIDE) SHALL BE CONSTRUCTED AS SHOWN IN THE "TYPICAL JOINT AND CURB DETAILS" ON THIS SHEET. DOWELS SHALL BE USED TO TIE NEW CONCRETE PAVEMENT INTO EXISTING CONCRETE PAVEMENT.
 5. TEMPORARY CONSTRUCTION ENTRANCE SHALL BE 12" OF TYPE 5 AGGREGATE ON TOP OF MIRAFI GEOTEXTILE FABRIC.



T.R. HUGHES BLVD

TEMPORARY CONSTRUCTION ENTRANCE PLAN

- GENERAL NOTES**
1. Do not scale drawing. Follow dimensions.
 2. Construction joint and tie bars may be omitted when curb is poured integral with pavement.
 3. Minimum thickness for Pavement is: Blumireinforced Concrete Pavement Thickness = (1) Concrete Pavement Thickness = (1) All Residential Minor and Local Streets Residential Collector and Non-Residential Streets All Arterial Streets
 4. Type "C" Transverse Joint is required for Arterial and Non-Residential streets. Use Type "C" Transverse Joint for all others.
 5. For Subdivision or Minor Streets having 6" concrete pavement, 1/2" deformed tie bars 30" long at 30" centers shall be used for Type "C" Longitudinal Joints and 1/2" deformed tie bars 18" long at 30" centers shall be used for Type "C" Longitudinal Joints.
 6. Refer to Pavement Construction Details for Integral Vertical Curbs and Concrete Pavement Typical Sections and Details. For joint and bar requirements for different street classifications. Note that width and location of each course portion of the pavement may change the type and location of joint required.
 7. All deformed bars for joints and curbs shall be Billet Steel Bars conforming to ASTM A615-75, Grade 40.
 8. Length of the tie bars shall equal the thickness of pavement plus the height of curb less 6". Tie bars shall be placed at 24" centers.
 9. Transverse or longitudinal construction joints in slip formed pavements may be made with a groover or tool if such device has been approved in advance by the Department.
 10. The free end of the dowel bar for a length of at least 11 inches shall be coated with an approved graphite grease.
 11. All dowel bars 18" @ 12" cts. shall be epoxy coated.
 12. Expansion joint A-2 from St. Louis County pavement construction details shall be allowed in addition to Type A and AA expansion joints.



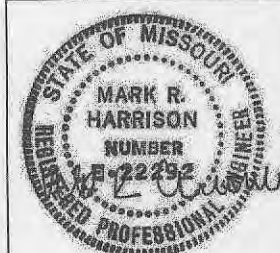
CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

PAVEMENT CONSTRUCTION DETAILS
JOINTS AND CURBS

THIS RECORD DRAWING HAS BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THIS RECORD DRAWING OR FOR ANY ERRORS OR OMISSIONS THAT MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT OF INCORRECT INFORMATION PROVIDED TO THE ENGINEER. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY.

"RECORD DRAWINGS"

BMCD# 77051
Burns & McDonnell



Date: 03/31/2015
Mark R. Harrison
Professional Engineer
#E-22292

REV	PROJ ID	DATE	DRWN	RVW	APPD

COMMERCIAL ENTRANCE DETAILS

O'FALLON RENEWABLE ENERGY CENTER

OF-DWG-PROP-00CP16

AS-BUILT SURVEY POINT TABLE				
Point Number	Northing	Easting	Elevation	Code
1010	1089244.92	769932.94	495.729	FLARED END SECTION
1011	1089249.53	769933.13	495.77	FLARED END SECTION
1012	1089246.52	769863.33	498.07	FLARED END SECTION
1013	1089251.66	769863.60	498.06	FLARED END SECTION
1014	1089183.02	769899.85	500.22	GROUND SHOT
1015	1089193.83	769899.24	500.65	GROUND SHOT
1016	1089217.45	769898.17	501.46	GROUND SHOT
1017	1089244.72	769898.98	501.87	GROUND SHOT
1018	1089272.18	769899.19	502.26	GROUND SHOT
1019	1089298.30	769899.20	502.66	GROUND SHOT
1020	1089325.07	769899.33	503.13	GROUND SHOT
1021	1089352.56	769899.30	503.87	GROUND SHOT
1022	1089377.31	769899.78	504.26	GROUND SHOT
1023	1089390.00	769899.85	504.54	GROUND SHOT
1024	1089409.03	769899.98	504.99	GROUND SHOT
1025	1089394.29	769873.93	504.89	GROUND SHOT
1026	1089394.53	769847.73	505.35	GROUND SHOT
1027	1089395.36	769822.10	505.79	GROUND SHOT
1028	1089395.64	769795.52	506.34	GROUND SHOT
1029	1089386.09	769771.56	506.40	GROUND SHOT
1030	1089363.76	769756.48	505.74	GROUND SHOT
1031	1089335.24	769753.32	504.89	GROUND SHOT
1032	1089311.08	769764.54	504.05	GROUND SHOT
1033	1089296.79	769790.39	503.47	GROUND SHOT
1034	1089294.29	769817.43	503.11	GROUND SHOT
1035	1089293.32	769845.22	502.90	GROUND SHOT
1036	1089291.90	769870.30	502.70	GROUND SHOT
1037	1089290.69	769886.23	502.55	GROUND SHOT
1038	1089193.74	769867.73	501.91	BACK OF CURB B
1039	1089193.76	769867.76	501.92	BACK OF CURB BC
1040	1089195.68	769874.00	501.82	BACK OF CURB OC
1041	1089201.48	769880.62	501.85	BACK OF CURB OC
1042	1089211.16	769883.55	502.08	BACK OF CURB EC
1043	1089214.85	769883.97	502.15	BACK OF CURB
1044	1089216.40	769884.13	501.79	BACK OF CURB E
1045	1089216.49	769884.65	501.67	CONCRETE PAD B
1046	1089213.72	769884.47	501.66	CONCRETE PAD BC
1047	1089204.40	769882.68	501.45	CONCRETE PAD OC
1048	1089197.26	769877.55	501.36	CONCRETE PAD OC
1049	1089193.23	769867.73	501.45	CONCRETE PAD EC
1050	1089191.11	769868.00	501.40	CONCRETE PAD
1051	1089192.57	769883.16	501.07	CONCRETE PAD
1052	1089194.62	769914.96	500.37	CONCRETE PAD
1053	1089194.69	769930.98	499.99	CONCRETE PAD
1054	1089196.93	769930.97	500.05	CONCRETE PAD BC
1055	1089199.37	769922.43	500.28	CONCRETE PAD OC
1056	1089206.54	769915.80	500.65	CONCRETE PAD OC
1057	1089218.29	769912.41	501.29	CONCRETE PAD EC
1058	1089218.34	769912.45	501.30	CONCRETE PAD CLS
1059	1089218.41	769913.05	501.27	BACK OF CURB B
1060	1089216.96	769913.27	501.70	BACK OF CURB BC
1061	1089206.83	769916.40	501.24	CONCRETE PAD OC
1062	1089199.14	769924.24	500.81	CONCRETE PAD OC
1063	1089197.46	769930.99	500.59	CONCRETE PAD EC
1064	1089197.49	769930.98	500.62	BACK OF CURB E
1066	1089435.48	769919.17	504.46	FLOWLINE OF SWALE
1067	1089457.57	769931.35	504.53	FLOWLINE OF SWALE
1068	1089481.05	769945.71	504.01	FLOWLINE OF SWALE
1069	1089504.13	769960.61	503.55	FLOWLINE OF SWALE
1070	1089527.62	769975.13	503.28	FLOWLINE OF SWALE
1071	1089551.18	769989.98	502.90	FLOWLINE OF SWALE
1072	1089571.92	770003.29	502.48	FLOWLINE OF SWALE
1073	1089594.82	770016.90	502.17	FLOWLINE OF SWALE
1074	1089617.63	770030.23	502.07	FLOWLINE OF SWALE
1075	1089641.09	770043.00	501.65	FLOWLINE OF SWALE
1076	1089663.49	770056.25	501.39	FLOWLINE OF SWALE
1077	1089686.42	770068.68	500.99	FLOWLINE OF SWALE
1078	1089710.30	770080.44	500.63	FLOWLINE OF SWALE
1079	1089734.53	770092.59	500.25	FLOWLINE OF SWALE
1080	1089756.30	770103.57	500.13	FLOWLINE OF SWALE
1082	1089779.30	770115.98	500.11	FLOWLINE OF SWALE
1083	1089802.43	770128.82	499.50	FLOWLINE OF SWALE
1084	1089826.14	770135.52	499.25	FLOWLINE OF SWALE
1085	1089845.10	770139.68	497.64	FLOWLINE OF SWALE
1086	1089848.43	770128.83	500.06	TOP OF SLOPE

1087	1089862.57	770123.39	500.20	TOP OF SLOPE
1088	1089889.20	770113.32	500.23	TOP OF SLOPE
1089	1089914.50	770102.47	500.29	TOP OF SLOPE
1090	1089940.80	770093.64	500.31	TOP OF SLOPE
1091	1089967.41	770082.47	500.40	TOP OF SLOPE
1092	1089994.02	770072.83	500.19	TOP OF SLOPE
1093	1090019.65	770062.10	500.40	TOP OF SLOPE
1094	1090045.14	770052.49	500.30	TOP OF SLOPE
1095	1090070.04	770047.65	500.34	TOP OF SLOPE
1096	1090086.74	770035.12	502.05	TOP OF SLOPE
1097	1090084.54	770081.63	502.03	TOP OF SLOPE
1098	1090082.94	770109.92	501.98	TOP OF SLOPE
1099	1090081.28	770138.67	501.92	TOP OF SLOPE
1100	1090079.71	770165.14	501.85	TOP OF SLOPE
1101	1090079.00	770193.09	501.88	TOP OF SLOPE
1102	1090077.62	770222.15	501.87	TOP OF SLOPE
1103	1090073.37	770241.90	502.00	TOP OF SLOPE
1104	1090065.25	770248.36	502.25	TOP OF SLOPE
1105	1090056.13	770250.63	502.44	TOP OF SLOPE
1107	1090048.61	770247.74	502.18	TOP OF SLOPE
1109	1090027.87	770230.83	501.92	TOP OF SLOPE
1110	1090019.23	770223.47	501.85	TOP OF SLOPE
1111	1090014.19	770215.24	501.70	TOP OF SLOPE
1112	1090010.04	770213.14	501.60	TOP OF SLOPE
1113	1090007.75	770214.33	502.02	TOP OF SLOPE
1114	1090013.39	770211.56	501.99	top outfall
1115	1089985.02	770207.37	501.95	TOP OF SLOPE
1116	1089958.52	770197.95	502.03	TOP OF SLOPE
1117	1089932.23	770189.01	502.00	TOP OF SLOPE
1118	1089907.47	770180.21	502.14	TOP OF SLOPE
1119	1089882.04	770171.12	502.04	TOP OF SLOPE
1120	1089860.36	770163.26	502.02	TOP OF SLOPE
1121	1089841.52	770155.70	502.15	TOP OF SLOPE
1122	1089829.95	770135.27	495.05	TOE OF SLOPE
1123	1089826.34	770126.86	495.25	TOE OF SLOPE
1124	1089824.32	770115.70	495.44	TOE OF SLOPE
1125	1089849.80	770106.93	495.27	TOE OF SLOPE
1126	1089875.47	770096.55	495.24	TOE OF SLOPE
1127	1089899.37	770087.80	495.30	TOE OF SLOPE
1128	1090026.00	770077.28	495.68	TOE OF SLOPE
1129	1090051.75	770065.26	496.43	TOE OF SLOPE
1130	1090065.41	770061.25	497.02	TOE OF SLOPE
1131	1090069.74	770063.31	496.84	TOE OF SLOPE
1132	1090065.42	770093.68	495.49	TOE OF SLOPE
1133	1090061.88	770120.59	495.19	TOE OF SLOPE
1134	1090059.37	770146.81	494.75	TOE OF SLOPE
1135	1090057.95	770174.48	494.30	TOE OF SLOPE
1136	1090056.05	770201.28	494.01	TOE OF SLOPE
1137	1090054.84	770223.13	494.71	TOE OF SLOPE
1138	1090051.29	770227.00	495.03	TOE OF SLOPE
1139	1090038.88	770212.77	494.24	TOE OF SLOPE
1140	1090026.58	770202.25	494.11	TOE OF SLOPE
1141	1090018.76	770201.53	494.72	INLET
1142	1090020.76	770198.39	493.91	TOE OF SLOPE
1143	1090014.24	770195.40	494.22	TOE OF SLOPE
1144	1089989.62	770186.98	494.55	TOE OF SLOPE
1145	1089960.96	770177.44	495.07	TOE OF SLOPE
1146	1089935.84	770168.47	495.01	TOE OF SLOPE
1147	1089909.64	770159.89	495.26	TOE OF SLOPE
1148	1089885.86	770152.51	495.20	TOE OF SLOPE
1149	1089872.60	770147.81	495.13	TOE OF SLOPE
1150	1089898.46	770142.58	495.19	GROUND SHOT
1151	1089925.59	770141.45	495.14	GROUND SHOT
1152	1089953.52	770141.14	495.27	GROUND SHOT
1153	1089983.96	770141.72	495.00	GROUND SHOT
1154	1090007.71	770142.72	495.03	GROUND SHOT
1155	1090034.17	770141.03	495.00	GROUND SHOT
1156	1089987.31	770257.44	487.46	FLARED END SECTION
1159	1090022.36	769523.11	507.09	FLOWLINE OF SWALE
1160	1090021.84	769548.41	506.11	FLOWLINE OF SWALE
1161	1090021.56	769574.65	505.53	FLOWLINE OF SWALE
1162	1090021.41	769599.03	505.15	FLOWLINE OF SWALE
1163	1090021.45	769623.03	504.90	FLOWLINE OF SWALE
1164	1090023.76	769645.08	504.57	FLOWLINE OF SWALE
1165	1090037.65	769664.00	504.27	FLOWLINE OF SWALE
1166	1090051.24	769680.65	503.74	FLOWLINE OF SWALE
1167	1090066.09	769698.52	503.39	FLOWLINE OF SWALE

1168	1090082.14	769718.25	503.26	FLOWLINE OF SWALE
1169	1090096.25	769738.42	503.04	FLOWLINE OF SWALE
1170	1090105.12	769761.69	502.56	FLOWLINE OF SWALE
1171	1090109.99	769783.81	501.97	FLOWLINE OF SWALE
1172	1090109.03	769809.98	501.48	FLOWLINE OF SWALE
1173	1090106.15	769833.10	501.58	FLOWLINE OF SWALE
1174	1090102.89	769856.40	500.88	FLOWLINE OF SWALE
1175	1090099.00	769883.06	500.76	FLOWLINE OF SWALE
1176	1090095.44	769907.94	500.59	FLOWLINE OF SWALE
1177	1090091.92	769933.83	500.13	FLOWLINE OF SWALE
1178	1090088.66	769960.38	500.51	FLOWLINE OF SWALE
1179	1090084.51	769987.90	500.28	FLOWLINE OF SWALE
1180	1090082.07	770012.55	499.46	FLOWLINE OF SWALE
1181	1090080.27	770032.31	499.08	FLOWLINE OF SWALE
1182	1090079.72	770041.27	499.21	FLOWLINE OF SWALE
1183	1090053.19	769519.64	507.55	FLOWLINE OF SWALE
1184	1090066.56	769523.13	506.85	FLOWLINE OF SWALE
1185	1090091.05	769531.34	506.35	FLOWLINE OF SWALE
1186	1090115.40	769540.04	505.90	FLOWLINE OF SWALE
1187	1090139.72	769547.45	505.86	FLOWLINE OF SWALE
1188	1090162.19	769555.25	505.65	FLOWLINE OF SWALE
1189	1090186.14	769564.28	505.74	FLOWLINE OF SWALE
1190	1090209.58	769571.91	505.23	FLOWLINE OF SWALE
1191	1090234.40	769574.62	504.92	FLOWLINE OF SWALE
1192	1090259.35	769575.53	504.74	FLOWLINE OF SWALE
1193	1090282.26	769576.65	504.53	FLOWLINE OF SWALE
1194	1090306.50	769576.98	504.31	FLOWLINE OF SWALE
1195	1090332.30	769577.98	504.15	FLOWLINE OF SWALE
1196	1090358.80	769579.53	504.04	FLOWLINE OF SWALE
1197	1090384.06	769579.92	503.68	FLOWLINE OF SWALE
1198	1090409.90	769581.36	503.38	FLOWLINE OF SWALE
1199	1090435.83	769582.04	503.09	FLOWLINE OF SWALE
1200	1090462.88	769582.39	502.93	FLOWLINE OF SWALE
1201	1090485.43	769583.02	502.75	FLOWLINE OF SWALE
1202	1090511.25	769581.93	502.25	FLOWLINE OF SWALE
1203	1090537.10	769582.83	501.86	FLOWLINE OF SWALE
1204	1090561.26	769584.42	501.49	FLOWLINE OF SWALE
1205	1090584.70	769584.01	501.25	FLOWLINE OF SWALE
1206	1090609.64	769585.22	501.22	FLOWLINE OF SWALE

PARCEL 1 - LEGAL DESCRIPTION
 A TRACT OF LAND BEING PART OF FRACTIONAL SECTION 15, 16 AND 22, TOWNSHIP 47 NORTH, RANGE 3 EAST, ST. CHARLES COUNTY, MISSOURI AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
 BEGINNING AT A STONE LOCATED AT THE CORNER COMMON TO SECTIONS 15, 16, 21 AND 22, THENCE ALONG THE LINE COMMON TO SECTIONS 15 AND 22, SOUTH 89 DEGREES 02 MINUTES 54 SECONDS EAST, A DISTANCE OF 170.65 FEET; THENCE LEAVING SAID COMMON LINE OF SECTIONS 15 AND 22, NORTH 02 DEGREES 57 MINUTES 06 SECONDS EAST, A DISTANCE OF 286.21 FEET; THENCE NORTH 48 DEGREES 29 MINUTES 24 SECONDS EAST, A DISTANCE OF 130.91 FEET; THENCE NORTH 02 DEGREES 57 MINUTES 06 SECONDS EAST, A DISTANCE OF 470.35 FEET; THENCE NORTH 19 DEGREES 03 MINUTES 00 SECONDS EAST, A DISTANCE OF 144.93 FEET; THENCE NORTH 02 DEGREES 57 MINUTES 06 SECONDS EAST, A DISTANCE OF 414.60 FEET; THENCE NORTH 19 DEGREES 03 MINUTES 00 SECONDS EAST, A DISTANCE OF 473.70 FEET TO AN IRON PIPE; THENCE NORTH 19 DEGREES 03 MINUTES 00 SECONDS WEST, A DISTANCE OF 103.00 FEET; THENCE NORTH 02 DEGREES 57 MINUTES 06 SECONDS EAST, A DISTANCE OF 528.68 FEET TO A REBAR; THENCE NORTH 89 DEGREES 02 MINUTES 54 SECONDS WEST, A DISTANCE OF 189.16 FEET TO A STONE; THENCE SOUTH 46 DEGREES 59 MINUTES 41 SECONDS WEST, A DISTANCE OF 241.50 FEET; THENCE SOUTH 42 DEGREES 10 MINUTES 48 SECONDS EAST, A DISTANCE OF 668.08 FEET; THENCE SOUTH 00 DEGREES 34 MINUTES 42 SECONDS WEST, A DISTANCE OF 272.44 FEET; THENCE NORTH 88 DEGREES 03 MINUTES 18 SECONDS WEST, A DISTANCE OF 848.87 FEET TO AN IRON PIPE; THENCE SOUTH 00 DEGREES 34 MINUTES 42 SECONDS WEST, A DISTANCE OF 60.61 FEET TO AN IRON PIPE WITH CAP AND ALSO THE COMMON SECTION LINE OF SECTIONS 15 AND 21; THENCE EASTERLY ALONG SAID COMMON LINE SOUTH 88 DEGREES 49 MINUTES 48 SECONDS EAST, A DISTANCE OF 1,116.14 FEET TO THE POINT OF BEGINNING.

THE ABOVE PARCEL BEING SITUATED IN ST. CHARLES COUNTY, MISSOURI AND CONTAINING 1,886,566 SQUARE FEET, OR 43.3 ACRES, MORE OR LESS.

PARCEL 2 - LEGAL DESCRIPTION
 A TRACT OF LAND BEING PART OF U.S. SURVEY 3070, TOWNSHIP 47 NORTH, RANGE 3 EAST, ST. CHARLES COUNTY, MISSOURI AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
 BEGINNING AT AN IRON PIPE LOCATED ON THE SOUTHERN RIGHT-OF-WAY LINE OF STATE HIGHWAY 79, FROM WHICH PIPE A POINT MARKING THE INTERSECTION OF THE SOUTH LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF FRACTIONAL SECTION 15 WITH THE NORTHEASTERN SURVEY LINE OF U.S. SURVEY 1700 BEARS NORTH 23 DEGREES EAST, 3.254 FEET; THENCE SOUTH 49 DEGREES 10 MINUTES 24 SECONDS EAST, ALONG THE SOUTHERN RIGHT-OF-WAY OF SAID STATE HIGHWAY 79, A DISTANCE OF 111.11 FEET TO AN IRON PIPE; THENCE LEAVING SAID RIGHT-OF-WAY, SOUTH 31 DEGREES 18 MINUTES 06 SECONDS WEST, A DISTANCE OF 740.84 FEET TO AN IRON PIPE; THENCE NORTH 58 DEGREES 15 MINUTES 57 SECONDS WEST, A DISTANCE OF 128.78 FEET TO AN IRON PIPE THAT BEARS SOUTH 88 DEGREES 15 MINUTES 57 SECONDS WEST, A DISTANCE OF 128.78 FEET TO AN IRON PIPE; THENCE NORTH 58 DEGREES 15 MINUTES 57 SECONDS WEST, A DISTANCE OF 743.38 FEET TO THE POINT OF BEGINNING.

THE ABOVE PARCEL BEING SITUATED IN ST. CHARLES COUNTY, MISSOURI AND CONTAINING 82,020 SQUARE FEET, OR 1.9 ACRES, MORE OR LESS.

PARCEL 3 - LEGAL DESCRIPTION
 A TRACT OF LAND BEING PART OF FRACTIONAL SECTION 15 AND U.S. SURVEY 3070, TOWNSHIP 47 NORTH, RANGE 3 EAST, ST. CHARLES COUNTY, MISSOURI AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
 COMMENCING AT A STONE LOCATED AT THE CORNER COMMON TO SECTIONS 15, 16, 21 AND 22, THENCE ALONG THE LINE COMMON TO SECTIONS 15 AND 22, SOUTH 89 DEGREES 02 MINUTES 54 SECONDS EAST, A DISTANCE OF 170.65 FEET TO THE POINT OF BEGINNING OF THE HEREIN DESCRIBED TRACT; THENCE LEAVING SAID COMMON LINE OF SECTIONS 15 AND 22, NORTH 02 DEGREES 57 MINUTES 06 SECONDS EAST, A DISTANCE OF 286.21 FEET; THENCE NORTH 48 DEGREES 29 MINUTES 24 SECONDS EAST, A DISTANCE OF 130.91 FEET; THENCE NORTH 02 DEGREES 57 MINUTES 06 SECONDS EAST, A DISTANCE OF 470.35 FEET; THENCE NORTH 19 DEGREES 03 MINUTES 00 SECONDS EAST, A DISTANCE OF 144.93 FEET; THENCE NORTH 02 DEGREES 57 MINUTES 06 SECONDS EAST, A DISTANCE OF 414.60 FEET; THENCE NORTH 19 DEGREES 03 MINUTES 00 SECONDS EAST, A DISTANCE OF 473.70 FEET TO AN IRON PIPE; THENCE SOUTH 46 DEGREES 59 MINUTES 41 SECONDS WEST, A DISTANCE OF 241.50 FEET; THENCE SOUTH 42 DEGREES 10 MINUTES 48 SECONDS EAST, A DISTANCE OF 668.08 FEET; THENCE SOUTH 00 DEGREES 34 MINUTES 42 SECONDS WEST, A DISTANCE OF 272.44 FEET; THENCE NORTH 88 DEGREES 03 MINUTES 18 SECONDS WEST, A DISTANCE OF 848.87 FEET TO AN IRON PIPE; THENCE SOUTH 00 DEGREES 34 MINUTES 42 SECONDS WEST, A DISTANCE OF 60.61 FEET TO AN IRON PIPE WITH CAP AND ALSO THE COMMON SECTION LINE OF SECTIONS 15 AND 21; THENCE EASTERLY ALONG SAID COMMON LINE SOUTH 88 DEGREES 49 MINUTES 48 SECONDS EAST, A DISTANCE OF 1,116.14 FEET TO THE POINT OF BEGINNING.

THE ABOVE PARCEL BEING SITUATED IN ST. CHARLES COUNTY, MISSOURI AND CONTAINING 1,253,840 SQUARE FEET, OR 28.8 ACRES, MORE OR LESS.

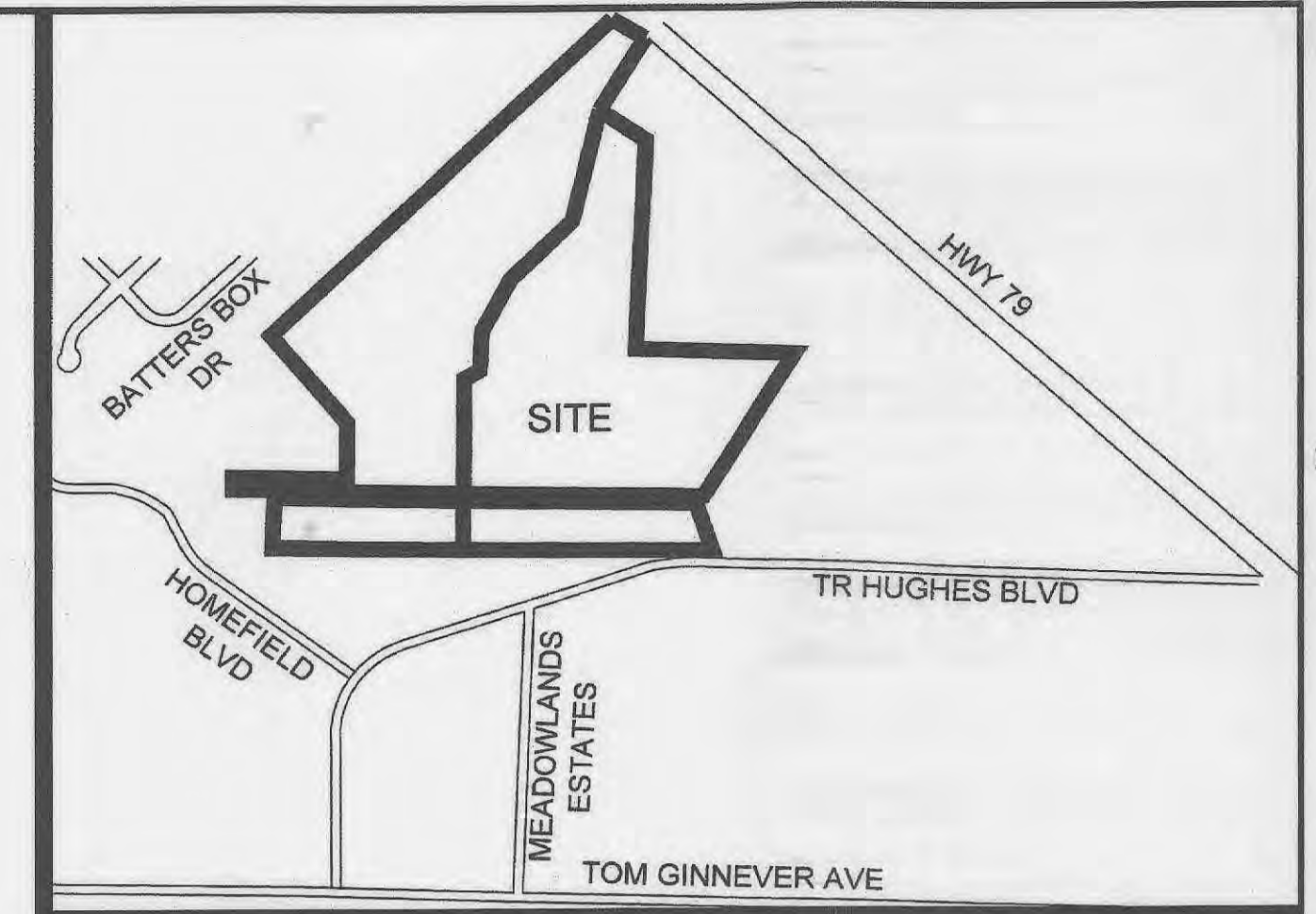
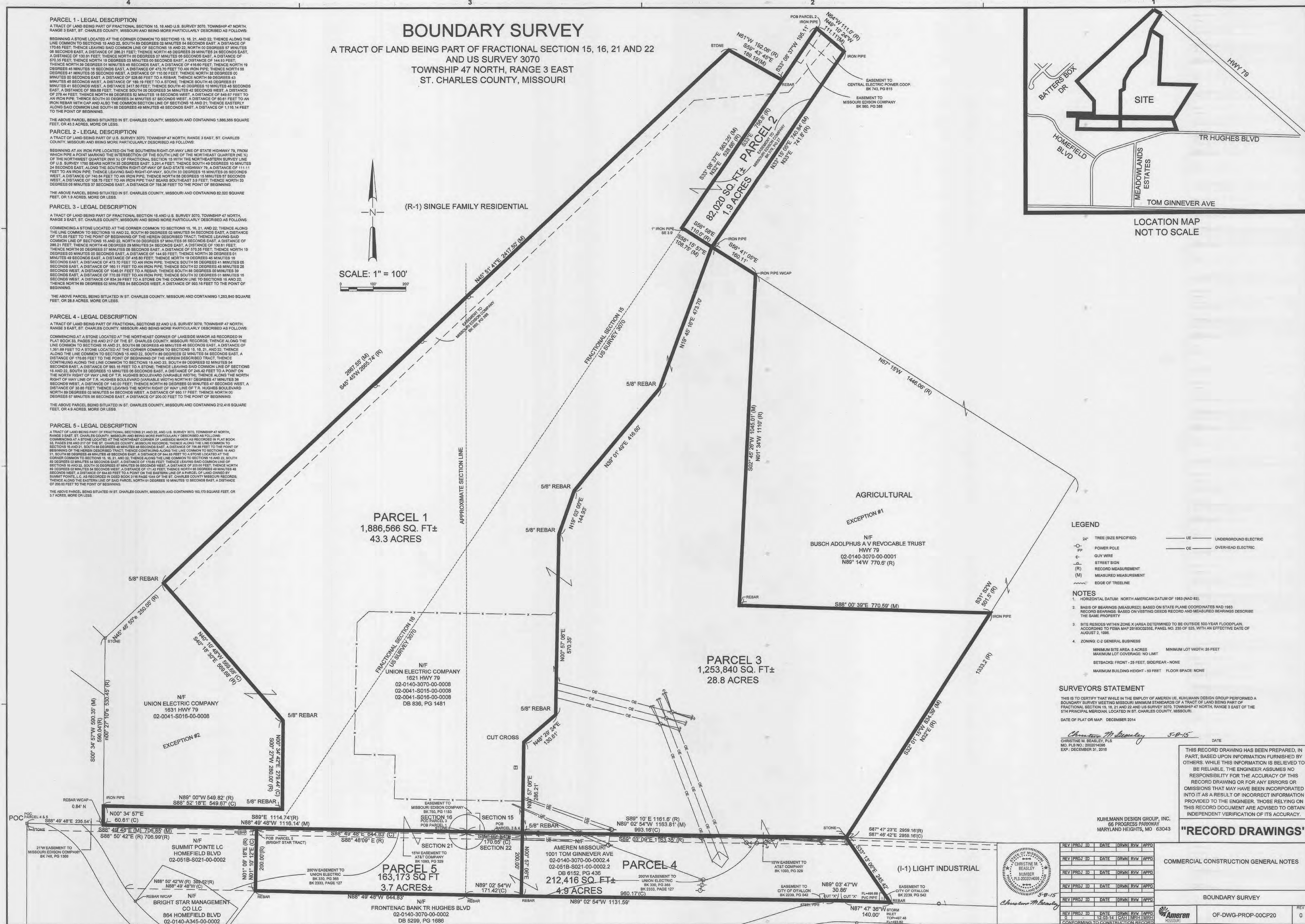
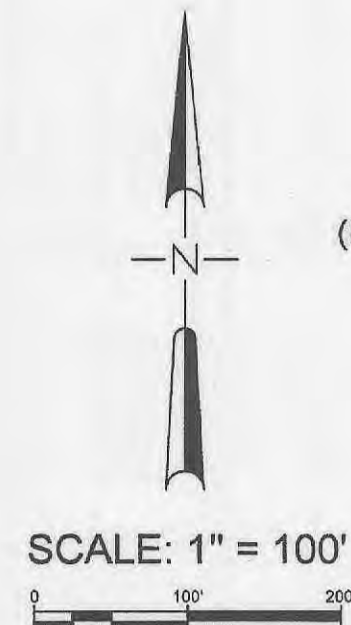
PARCEL 4 - LEGAL DESCRIPTION
 A TRACT OF LAND BEING PART OF FRACTIONAL SECTIONS 22 AND U.S. SURVEY 3070, TOWNSHIP 47 NORTH, RANGE 3 EAST, ST. CHARLES COUNTY, MISSOURI AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
 COMMENCING AT A STONE LOCATED AT THE NORTHEAST CORNER OF LAKESIDE MANOR AS RECORDED IN PLAT BOOK 33, PAGES 219 AND 217 OF THE ST. CHARLES COUNTY, MISSOURI RECORDS; THENCE ALONG THE LINE COMMON TO SECTIONS 15 AND 21, SOUTH 88 DEGREES 49 MINUTES 48 SECONDS EAST, A DISTANCE OF 1,351.98 FEET TO A STONE LOCATED AT THE CORNER COMMON TO SECTIONS 15, 16, 21 AND 22; THENCE ALONG THE LINE COMMON TO SECTIONS 15 AND 22, SOUTH 89 DEGREES 02 MINUTES 54 SECONDS EAST, A DISTANCE OF 170.65 FEET TO THE POINT OF BEGINNING OF THE HEREIN DESCRIBED TRACT; THENCE CONTINUING ALONG THE LINE COMMON TO SECTIONS 15 AND 22, SOUTH 89 DEGREES 02 MINUTES 54 SECONDS EAST, A DISTANCE OF 286.21 FEET; THENCE NORTH 48 DEGREES 29 MINUTES 24 SECONDS EAST, A DISTANCE OF 130.91 FEET; THENCE NORTH 02 DEGREES 57 MINUTES 06 SECONDS EAST, A DISTANCE OF 470.35 FEET; THENCE NORTH 19 DEGREES 03 MINUTES 00 SECONDS EAST, A DISTANCE OF 144.93 FEET; THENCE NORTH 02 DEGREES 57 MINUTES 06 SECONDS EAST, A DISTANCE OF 414.60 FEET; THENCE NORTH 19 DEGREES 03 MINUTES 00 SECONDS EAST, A DISTANCE OF 473.70 FEET TO AN IRON PIPE; THENCE SOUTH 46 DEGREES 59 MINUTES 41 SECONDS WEST, A DISTANCE OF 241.50 FEET; THENCE SOUTH 42 DEGREES 10 MINUTES 48 SECONDS EAST, A DISTANCE OF 668.08 FEET; THENCE SOUTH 00 DEGREES 34 MINUTES 42 SECONDS WEST, A DISTANCE OF 272.44 FEET; THENCE NORTH 88 DEGREES 03 MINUTES 18 SECONDS WEST, A DISTANCE OF 848.87 FEET TO AN IRON PIPE; THENCE SOUTH 00 DEGREES 34 MINUTES 42 SECONDS WEST, A DISTANCE OF 60.61 FEET TO AN IRON PIPE WITH CAP AND ALSO THE COMMON SECTION LINE OF SECTIONS 15 AND 21; THENCE EASTERLY ALONG SAID COMMON LINE SOUTH 88 DEGREES 49 MINUTES 48 SECONDS EAST, A DISTANCE OF 1,116.14 FEET TO THE POINT OF BEGINNING.

THE ABOVE PARCEL BEING SITUATED IN ST. CHARLES COUNTY, MISSOURI AND CONTAINING 163,173 SQUARE FEET, OR 3.7 ACRES, MORE OR LESS.

PARCEL 5 - LEGAL DESCRIPTION
 A TRACT OF LAND BEING PART OF FRACTIONAL SECTIONS 21 AND 22, AND U.S. SURVEY 3070, TOWNSHIP 47 NORTH, RANGE 3 EAST, ST. CHARLES COUNTY, MISSOURI AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
 COMMENCING AT A STONE LOCATED AT THE NORTHEAST CORNER OF LAKESIDE MANOR AS RECORDED IN PLAT BOOK 33, PAGES 219 AND 217 OF THE ST. CHARLES COUNTY, MISSOURI RECORDS; THENCE ALONG THE LINE COMMON TO SECTIONS 15 AND 21, SOUTH 88 DEGREES 49 MINUTES 48 SECONDS EAST, A DISTANCE OF 788.89 FEET TO THE POINT OF BEGINNING OF THE HEREIN DESCRIBED TRACT; THENCE CONTINUING ALONG THE LINE COMMON TO SECTIONS 15 AND 21, SOUTH 88 DEGREES 49 MINUTES 48 SECONDS EAST, A DISTANCE OF 44.81 FEET TO A STONE LOCATED AT THE CORNER COMMON TO SECTIONS 15, 16, 21 AND 22; THENCE ALONG THE LINE COMMON TO SECTIONS 15 AND 22, SOUTH 89 DEGREES 02 MINUTES 54 SECONDS EAST, A DISTANCE OF 170.65 FEET; THENCE NORTH 48 DEGREES 29 MINUTES 24 SECONDS EAST, A DISTANCE OF 130.91 FEET; THENCE NORTH 02 DEGREES 57 MINUTES 06 SECONDS EAST, A DISTANCE OF 470.35 FEET; THENCE NORTH 19 DEGREES 03 MINUTES 00 SECONDS EAST, A DISTANCE OF 144.93 FEET; THENCE NORTH 02 DEGREES 57 MINUTES 06 SECONDS EAST, A DISTANCE OF 414.60 FEET; THENCE NORTH 19 DEGREES 03 MINUTES 00 SECONDS EAST, A DISTANCE OF 473.70 FEET TO AN IRON PIPE; THENCE SOUTH 46 DEGREES 59 MINUTES 41 SECONDS WEST, A DISTANCE OF 241.50 FEET; THENCE SOUTH 42 DEGREES 10 MINUTES 48 SECONDS EAST, A DISTANCE OF 668.08 FEET; THENCE SOUTH 00 DEGREES 34 MINUTES 42 SECONDS WEST, A DISTANCE OF 272.44 FEET; THENCE NORTH 88 DEGREES 03 MINUTES 18 SECONDS WEST, A DISTANCE OF 848.87 FEET TO AN IRON PIPE; THENCE SOUTH 00 DEGREES 34 MINUTES 42 SECONDS WEST, A DISTANCE OF 60.61 FEET TO AN IRON PIPE WITH CAP AND ALSO THE COMMON SECTION LINE OF SECTIONS 15 AND 21; THENCE EASTERLY ALONG SAID COMMON LINE SOUTH 88 DEGREES 49 MINUTES 48 SECONDS EAST, A DISTANCE OF 1,116.14 FEET TO THE POINT OF BEGINNING.

BOUNDARY SURVEY

A TRACT OF LAND BEING PART OF FRACTIONAL SECTION 15, 16, 21 AND 22 AND US SURVEY 3070 TOWNSHIP 47 NORTH, RANGE 3 EAST ST. CHARLES COUNTY, MISSOURI



LOCATION MAP NOT TO SCALE

- LEGEND**
- 24" TREE (SIZE SPECIFIED)
 - POWER POLE
 - GLY WIRE
 - STREET SIGN
 - RECORD MEASUREMENT (R)
 - MEASURED MEASUREMENT (M)
 - EDGE OF FREELINE
 - UE UNDERGROUND ELECTRIC
 - OE OVERHEAD ELECTRIC

- NOTES**
1. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD 83).
 2. BASIS OF BEARINGS (MEASURED): BASED ON STATE PLANE COORDINATES MD 1683 RECORD BEARINGS; BASED ON WESTING GEODESIC RECORD AND MEASURED BEARINGS DESCRIBE THE SAME PROPERTY.
 3. SITE RESIDES WITHIN ZONE X (AREA DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN ACCORDING TO FEMA MAP 2016030235E, PANEL NO. 235 OF 525, WITH AN EFFECTIVE DATE OF AUGUST 2, 1998).
 4. ZONING: C-2 GENERAL BUSINESS
 - MINIMUM SITE AREA: 2 ACRES
 - MINIMUM LOT WIDTH: 28 FEET
 - MAXIMUM LOT COVERAGE: NO LIMIT
 - SETBACKS: FRONT - 25 FEET, SIDEREAR - NONE
 - MAXIMUM BUILDING HEIGHT - 50 FEET
 - FLOOR SPACE: NONE

SURVEYORS STATEMENT
 THIS IS TO CERTIFY THAT WHILE IN THE EMPLOY OF AMEREN UE, KUHLMANN DESIGN GROUP PERFORMED A BOUNDARY SURVEY MEETING MISSOURI MINIMUM STANDARDS OF A TRACT OF LAND BEING PART OF FRACTIONAL SECTION 15, 16, 21 AND 22 AND US SURVEY 3070, TOWNSHIP 47 NORTH, RANGE 3 EAST OF THE 5TH PRINCIPAL MERIDIAN, LOCATED IN ST. CHARLES COUNTY, MISSOURI.

DATE OF PLAT OR MAP: DECEMBER 2014
 CHRISTOPHER M. BEASLEY, PLS. 5-8-15 DATE
 MO. PLS NO.: 202014095
 EXP.: DECEMBER 31, 2016

THIS RECORD DRAWING HAS BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THIS RECORD DRAWING OR FOR ANY ERRORS OR OMISSIONS THAT MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT OF INCORRECT INFORMATION PROVIDED TO THE ENGINEER. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY.

"RECORD DRAWINGS"

KUHLMANN DESIGN GROUP, INC.
 65 PROGRESS PARKWAY
 MARYLAND HEIGHTS, MO 63043

REV	PROJ ID	DATE	DRWN	RVW	APPD

COMMERCIAL CONSTRUCTION GENERAL NOTES

BOUNDARY SURVEY

REV: 0 OF-DWG-PROP-00CP20