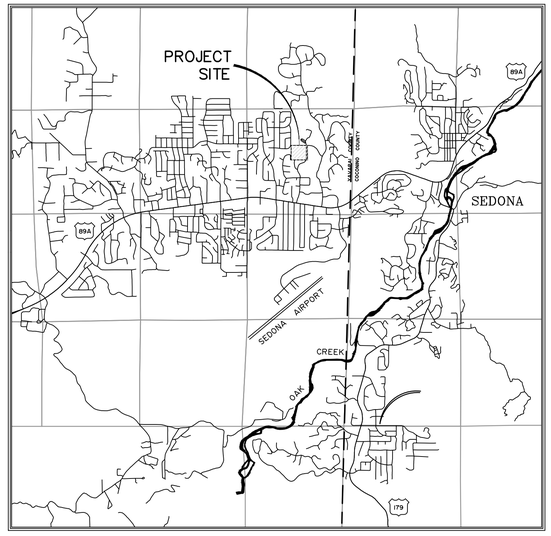
PLOTTED: Nov 07, 2012-11:14am

CONSTRUCTION PLANS
FOR THE POSSE GROUNDS PARK IMPROVEMENTS



VICINITY MAP

NO SCALE

CITY OF SEDONA

MAYOR
ROB ADAMS

CITY COUNCIL
JOHN MARTINEZ
BARBARA LITRELL
MARK DINUNZIO
DAN MCILROY
JESSICA WILLIAMSON
MIKE WARD

CITY MANAGER
TIM ERNSTER

DIRECTOR OF PUBLIC WORKS
CHARLES MOSLEY, P.E.

102 ROADRUNNER DRIVE
SEDONA, ARIZONA 86336

APPROVED: _____
DESIGN ENGINEER

APPROVED: _____
CITY ENGINEER

SHEET INDEX

SHT NO.	DWG NO.	DESCRIPTION
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3	C3	DETAILS
4	C4	DETAILS
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6	C6	PARKING & SIDEWALK GRADING AND DRAINAGE PLAN
7	C7	PARKING AND SIDEWALK SURVEY CONTROL
8	S1	STORM WATER POLLUTION PREVENTION PLAN
9	S2	STORM WATER POLLUTION PREVENTION PLAN

BASIS OF BEARINGS AND COORDINATES
LINEAR UNIT: INTERNATIONAL FOOT
GEODETIC DATUM: NAD83 (NSRS 2007)
VERTICAL DATUM: NAVD88 (SEE BELOW)
SYSTEM: SHEPHARD-WESNITZER
ZONE: SEDONA

PROJECTION: TRANSVERSE MERCATOR
LATITUDE OF GRID ORIGIN: 34° 44' 00" N
LONGITUDE OF CENTRAL MERIDIAN: 111° 48' 00 W
NORTHING AT GRID ORIGIN: 0.00 FT
EASTING AT CENTRAL MERIDIAN: 50,000.00 FT
CENTRAL MERIDIAN SCALE FACTOR: 1.000206

ALL MEASURED DISTANCES AND BEARINGS SHOWN HEREON ARE GRID VALUES BASED ON THE PRECEDING PROJECTION DEFINITION. THE PROJECTION WAS DEFINED SUCH THAT GRID DISTANCES ARE EQUIVALENT TO "GROUND" DISTANCES IN THE PROJECT AREA.

THE BASIS OF BEARINGS IS TRUE GEODETIC NORTH. NOTE THAT THE MEASURED GRID BEARINGS SHOWN HEREON (OR IMPLIED BY GRID COORDINATES) DO NOT EQUAL GEODETIC BEARINGS DUE TO MERIDIAN CONVERGENCE.

ORTHOMETRIC HEIGHTS (ELEVATIONS) WERE TRANSFERRED TO THE SITE FROM NGS POINT "VORTEX" (NGS PID AJ5637) USING GPS WITH NGS GEOID MODEL "GEOID03". ELEVATIONS SHOWN HEREON ARE REFERENCED THE PUBLISHED ELEVATION OF THIS STATION.

THE SURVEY WAS CONDUCTED USING GPS REFERENCED TO THE NATIONAL SPATIAL REFERENCE SYSTEM, 2007 READJUSTMENT. A PARTIAL LIST OF POINT COORDINATES FOR THIS SURVEY IS GIVEN BELOW (ADDITIONAL COORDINATES ARE AVAILABLE UPON REQUEST). LOCAL NETWORK ESTIMATES ARE GIVEN AT THE 95% CONFIDENCE LEVEL AND ARE BASED ON AN APPROPRIATELY CONSTRAINED LEAST-SQUARES ADJUSTMENT OF OVER-DETERMINED AND STATISTICALLY INDEPENDENT OBSERVATIONS.

POINT	LATITUDE	LONGITUDE	HT (FT)	NORTH (FT)	EAST (FT)	ELEV. (FT)	CODE
3003	34°52'10.24986"N	111°47'12.98735"W	4453.59	49575.59	53918.22	4533.61	NAIL 60D
3002	34°51'59.66570"N	111°47'18.22365"W	4409.03	48505.22	53481.93	4489.09	NAIL MAGNETIC
4001	34°52'07.03782"N	111°47'14.29101"W	4448.96	49250.76	53809.61	4528.98	NAIL 60D
4003	34°52'08.23393"N	111°47'14.03334"W	4451.63	49371.72	53831.07	4531.64	NAIL 60D

CALL TWO WORKING DAYS BEFORE YOU DIG
1-800-STAKE-IT

REVISIONS

NO.	DESCRIPTION	DATE	BY

Shephard Wesnitzer, Inc.
75 Kallof Place
Sedona, AZ 86336
928.282.1061
928.282.2058 fax
www.swiaz.com

JOB NO:	11311
DATE:	NOV 12
SCALE:	AS SHOWN
DRAWN:	MWJ
DESIGN:	DMM
CHECKED:	AHB

POSSE GROUNDS PARK IMPROVEMENTS — SEDONA ARIZONA

COVER SHEET

REGISTERED PROFESSIONAL ENGINEER — CERTIFICATE NO. 28658 — ARTHUR H. BECKWITH — 11/07/12 — Signed — ARIZONA, U.S.A. — Expires 3/31/2013

DRAWING NO. C1

SHT NO. 1 OF 9

FILE: P:\2011\11311\Drawings\Construction Plans\C1-11311.dwg MWJ-C3D12

PLOTTED: Nov 07, 2012–11:14am

GENERAL NOTES

MATERIALS AND WORKMANSHIP

ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE CURRENT CITY OF SEDONA ENGINEERING STANDARDS AND SPECIFICATIONS, "MARICOPA ASSOCIATION OF GOVERNMENTS UNIFORM STANDARD" (MAG SPECS), "MARICOPA ASSOCIATION OF GOVERNMENTS UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION" (MAG DETAILS), "YAVAPAI COUNTY ASSOCIATION OF GOVERNMENTS UNIFORM STANDARD AND DETAILS" (YAG SPECS & DETAILS), YAVAPAI COUNTY RESOLUTION 10–36, ADEQ BULLETIN 8 AND 10, AWWA STANDARDS, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES ANY SPECIAL PROVISIONS PREPARED FOR THE PROJECT, AND GENERALLY ACCEPTED GOOD CONSTRUCTION PRACTICES. THE TERM "CURRENT" MEANS THE MOST RECENT SPECIFICATION OR STANDARD IN EFFECT AS OF THE DATE OF THE ENGINEER'S SEAL ON THESE PLANS.

IF TWO OR MORE GIVEN SPECIFICATIONS DIFFER IN CONTENT, THE MORE RESTRICTIVE OR STRINGENT STANDARD OR SPECIFICATION, IN THE OPINION OF THE ENGINEER, WILL GOVERN.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COPIES OF THE ABOVE STANDARDS, SPECIFICATIONS AND DETAILS, AS WELL AS ALL OTHER STANDARDS AND SPECIFICATIONS WHICH MAY BE NECESSARY TO COMPLETELY AND ACCURATELY INTERPRET THESE PLANS. THIS REQUIREMENT EXTENDS TO ANY STANDARDS, DETAILS OR SPECIFICATIONS REFERENCED BY THE CONSTRUCTION DOCUMENTS AND NOT INCLUDED IN THE LIST ABOVE.

THE ENGINEER MAY REQUIRE THE SUBMITTAL OF A "CERTIFICATE OF COMPLIANCE" AND/OR "MANUFACTURER'S GUIDELINES" FOR ANY MATERIALS USED IN THE WORK. MANUFACTURER'S GUIDELINES SHALL CONSIST OF WRITTEN INSTRUCTIONS FOR SHIPPING, HANDLING, UNLOADING, CUTTING, JOINING, INSTALLATION, STORAGE, AND/OR ANY OTHER FACETS OF WORKING.

SHOP DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR PER MAG SPECIFICATION 105.2.

THE ENGINEER MAY ORDER ANY OR ALL MATERIALS USED IN THE WORK TO BE TESTED ACCORDING TO THE STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) AND THE AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) STANDARDS. THE CONTRACTOR SHALL, AT HIS EXPENSE, SUPPLY ALL SAMPLES FOR THE TESTING AND CERTIFICATES OR RESULTS OF TESTING.

ALTERNATE MANUFACTURER AND MODEL

THE CONTRACTOR SHALL SUBMIT CAREFULLY DOCUMENTED AND CONSIDERED WRITTEN PROPOSALS FOR ALTERNATE MATERIALS AND CONSTRUCTION METHODS. THOSE PROPOSALS THAT ARE FOUND TO BE IN CONFORMITY WITH GOOD ENGINEERING DESIGN AND CAN BE EASILY MAINTAINED BY JURISDICTIONAL FORCES MAY BE GIVEN WRITTEN APPROVAL FOR INCORPORATION IN THE CONSTRUCTION PLANS IF THEY ARE FOUND TO BE IN THE BEST PUBLIC INTEREST.

UNAUTHORIZED WORK

ANY WORK PERFORMED WITHOUT THE KNOWLEDGE AND APPROVAL OF THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.

SUSPENSION OF WORK

THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE MAY SUSPEND THE WORK BY WRITTEN NOTICE WHEN, IN HIS JUDGMENT, PROGRESS IS UNSATISFACTORY, IMPROPER WORKMANSHIP IS BEING PERFORMED, WORK BEING DONE IS UNAUTHORIZED OR DEFECTIVE, WEATHER CONDITIONS ARE UNSUITABLE, OR THERE IS DANGER TO THE PUBLIC HEALTH OR SAFETY.

QUALIFICATIONS OF CONTRACTOR

ALL IMPROVEMENTS SHALL BE CONSTRUCTED BY CONTRACTORS LICENSED BY THE ARIZONA STATE REGISTRAR OF CONTRACTORS, WITH A CLASS OF LICENSE(S) FOR THE SPECIFIC WORK BEING PERFORMED.

CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION METHODS, SEQUENCING, AND SAFETY DURING CONSTRUCTION.

CONTRACTOR IS REQUIRED TO COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS APPLICABLE TO THE CONSTRUCTION OF THIS PROJECT.

WATER SUPPLY DURING CONSTRUCTION

ALL WEATHER ACCESS, FIRE HYDRANTS AND WATER MAINS, SHALL BE IN PLACE, APPROVED AND OPERATIONAL AT ALL TIMES DURING CONSTRUCTION OF ON–SITE COMBUSTIBLE CONSTRUCTION. UTILITY OWNER APPROVAL IS REQUIRED FOR OBSTRUCTION OF ACCESS OR WATER SYSTEM SHUT DOWN.

THE LOCATION OF ALL WATER VALVES AND FIRE HYDRANTS MUST AT ALL TIMES DURING CONSTRUCTION BE REFERENCED AND MADE ACCESSIBLE TO THE OWNER OR HIS AUTHORIZED REPRESENTATIVE.

THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR AND PROVIDE ALL NECESSARY WATER FOR HIS CONSTRUCTION OPERATION AT HIS OWN EXPENSE.

ESTIMATED QUANTITIES

ALL QUANTITIES SHOWN ARE APPROXIMATE AND ARE FURNISHED SOLELY FOR THE CONTRACTOR'S CONVENIENCE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACTUAL QUANTITIES OF WORK REQUIRED AND BASE HIS BID ON HIS OWN INDEPENDENT ESTIMATE OF THE WORK SCOPE AND QUANTITIES OF MATERIALS REQUIRED. THEY DO NOT NECESSARILY CORRESPOND TO BID SCHEDULE ITEMS. PAYMENT WILL BE BASED ON BID SCHEDULE ITEMS. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR INDEPENDENTLY ESTIMATING QUANTITIES PRIOR TO BIDDING. THE CONTRACTOR REPRESENTS THAT THE TOTAL CONTRACT SUM IS ADEQUATE COMPENSATION FOR COMPLETING THE ENTIRE PROJECT AS SHOWN ON THE PLANS.

CUT & FILL QUANTITIES SHOWN REFLECT ONLY THAT EARTHWORK REQUIRED FOR CONSTRUCTION OF THE ROADWAY (ROADWAY PRISM ONLY), UNLESS OTHERWISE STATED.

THE LOCATION OF EXISTING FEATURES INDICATED ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR MAKING COMPLETE AND ACCURATE ON–SITE DETERMINATIONS OF THE LOCATIONS OF ALL UTILITIES, STRUCTURES AND FIELD CONDITIONS, WHICH MAY AFFECT THE PROGRESS OF THE WORK.

CONSTRUCTION OBSERVATIONS

AN OBSERVATION OF CONSTRUCTED IMPROVEMENTS WILL BE CONDUCTED BY THE ENGINEER. SPECIAL OBSERVATION AND TESTING SERVICES SHALL BE PROVIDED AT THE DEVELOPER'S EXPENSE, AS REQUIRED BY THE CITY ENGINEER.

NO BASE COURSE CONSTRUCTION SHALL BE STARTED UNTIL ALL UTILITY LINES ARE COMPLETED AND TESTED UNDER PROPOSED AREAS AND THE SUBGRADE HAS BEEN INSPECTED AND APPROVED BY THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.

NO PAVEMENT SHALL BE PLACED UNTIL BASE COURSE CONSTRUCTION IS INSPECTED AND APPROVED BY THE ENGINEER.

THE ENGINEER SHALL BE NOTIFIED 24 HOURS PRIOR TO BEGINNING DIFFERENT PHASES OF CONSTRUCTION SO THAT OBSERVATIONS MAY BE SCHEDULED.

SUBMITTAL OF AN ENGINEER'S CERTIFICATE OF COMPLETION IS REQUIRED FOR ALL WATER AND SEWER SYSTEM CONSTRUCTION. RELATED OBSERVATION AND TESTING SHALL BE PROVIDED BY THE DEVELOPER'S ENGINEER AT THE DEVELOPER'S EXPENSE.

MAINTENANCE OF FACILITIES AND WORK

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE STREETS AND OF PARTIALLY COMPLETED PORTIONS OF THE WORK UNTIL FINAL ACCEPTANCE OF THE WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE QUALITY OF EXISTING STREETS LEADING TO THE PROJECT SITE. EXISTING STREETS FOUND TO BE DAMAGED BY CONSTRUCTION TRAFFIC SHALL BE REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.

THE CONTRACTOR SHALL KEEP THE WORK AREA, ADJACENT PROPERTIES AND STREETS CLEAN AND FREE FROM RUBBISH, EXCESS MATERIALS, DUST AND DEBRIS GENERATED BY THE CONSTRUCTION ACTIVITY.

DAILY CLEANUP OF THE CONSTRUCTION SITE, INCLUDING SWEEPING STREETS, MAINTAINING TRENCHES, PROVIDING PROPER TRAFFIC CONTROL DEVICES, ETC., IS REQUIRED.

FINAL ACCEPTANCE

FINAL ACCEPTANCE OF THE CONSTRUCTION, BY CITY OF SEDONA & ARIZONA WATER COMPANY, IS REQUIRED BEFORE RELEASING PERMITS AND/OR TRANSFERRING OWNERSHIP OF THE IMPROVEMENTS.

APPROVAL OF A PORTION OF THE WORK IN PROGRESS DOES NOT GUARANTEE ITS FINAL ACCEPTANCE. TESTING AND EVALUATION MAY CONTINUE UNTIL WRITTEN FINAL ACCEPTANCE OF A COMPLETE WORKABLE UNIT. ACCEPTANCE OF COMPLETED IMPROVEMENTS WILL NOT BE GIVEN UNTIL DEFECTIVE OR UNAUTHORIZED WORK IS REMOVED AND FINAL CLEANUP IS COMPLETE.

THE CITY OF SEDONA RESERVES THE RIGHT TO REQUEST MODIFICATIONS TO THESE PLANS DURING CONSTRUCTION IF FIELD CONDITIONS WARRANT AND THE DESIGN ENGINEER CONCURS.

NO JOB WILL BE CONSIDERED COMPLETE UNTIL ALL CURB, PAVEMENT AND SIDEWALKS HAVE BEEN SWEPT CLEAN OF DIRT AND DEBRIS TO THE SATISFACTION OF THE OWNER AND ENGINEER AND ALL SURVEY MONUMENTS ARE INSTALLED.

WARRANTY

ANY DEFECTS WHICH APPEAR IN THE WORK WITHIN TWO YEARS FROM THE DATE OF FINAL ACCEPTANCE AND WHICH ARE DUE TO IMPROPER WORKMANSHIP OR INFERIOR MATERIALS SUPPLIED SHALL BE CORRECTED BY, AND AT THE EXPENSE OF, THE CONTRACTOR.

UTILITIES

THESE PLANS REPRESENT A REASONABLE EFFORT TO SHOW LOCATIONS OF EXISTING UNDERGROUND UTILITIES WITHIN THE PROJECT LIMITS. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES CAUSED DURING CONSTRUCTION. THE CONTRACTOR IS TO VERIFY THE LOCATION AND THE ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO ANY EXCAVATION OR CONSTRUCTION. WHERE PROPOSED UTILITIES ARE TO TIE INTO EXISTING STUBOUTS, MANHOLES, ETC., THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION BY POTHOLING, IF NECESSARY, TWO WEEKS PRIOR TO CONSTRUCTION. SHOULD ANY LOCATION OR ELEVATION DIFFER FROM THAT SHOWN ON PLANS, THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE PROPER UTILITY OWNER'S AGENT.

UTILITIES MUST BE LOCATED TO MINIMIZE INTERFERENCE WITH ONE ANOTHER, TO PROVIDE REQUIRED HORIZONTAL AND VERTICAL SEPARATIONS, AND TO PROVIDE MAINTENANCE ACCESS WITHOUT VIOLATING EASEMENT BOUNDARIES.

UTILITY FACILITIES IN CONFLICT WITH THIS WORK WILL BE RELOCATED BY THE PERMITTEE OR THE UTILITY OWNER. THIS ACTIVITY SHALL BE COORDINATED WITH THE OWNER OF THE UTILITY TO PREVENT ANY UNNECESSARY INTERRUPTION OF SERVICE TO EXISTING CUSTOMERS.

IT IS NOT WITHIN THE SCOPE OF THE PLANS FOR THE ENGINEER TO LOCATE, IDENTIFY OR FORESEE EVERY UTILITY CONFLICT WHICH MAY ARISE DURING THE CONSTRUCTION PHASE OF THE PROJECT BUT IT IS THE INTENT OF THE OWNER TO REASONABLY COMPENSATE THE CONTRACTOR FOR THE WORK REQUIRED TO RELOCATE OR ADJUST UTILITIES CONFLICTING WITH THE CONSTRUCTION OF THE PROJECT. TO THAT END, UTILITIES (AS DEFINED IN MAG 101.2) WHICH ARE ENCOUNTERED WILL BE ADDRESSED AS FOLLOWS:

1) UTILITY RELOCATION'S OR ADJUSTMENTS NOTED ON THE PLANS SHALL BE PAID FOR PER THE BID SCHEDULE.

2) UTILITY RELOCATIONS OR ADJUSTMENTS NOT NOTED ON THE PLANS SHALL BE ADDRESSED ON A CASE BY CASE BASIS. THE ENGINEER SHALL DETERMINE WHAT WORK IS REQUIRED TO PRODUCE THE DESIRED FINAL PRODUCT. IF A UNIT BID PRICE DOES NOT EXIST THEN COMPENSATION MUTUALLY ACCEPTABLE TO THE OWNER, CONTRACTOR, AND ENGINEER SHALL BE MADE.

3) THE SEPARATION BETWEEN WATER AND ELECTRIC SHALL BE 3 FEET HORIZONTAL AND 1 FOOT VERTICAL.

IN EITHER SITUATION, WORK ON THE SPECIFIC CASE SHALL NOT PROCEED UNTIL THE AMOUNT OF COMPENSATION IS AGREED UPON. COMPENSATION FOR UTILITY RELOCATION'S AND ADJUSTMENTS SHALL NOT INCLUDE COSTS FOR REPAIR TO THE UTILITY DAMAGED BY THE CONTRACTOR OR HIS SUBCONTRACTOR(S). THE CONTRACTOR IS NOT RELIEVED OF THE RESPONSIBILITY FOR DETERMINING THE LOCATION OF ALL UTILITIES AFFECTING THE WORK. THE APPROPRIATE UTILITY COMPANIES SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION. CERTAIN UTILITIES ARE TO REMAIN IN SERVICE DURING THE CONSTRUCTION OF THE FILL AND UPON COMPLETION OF THE CONTRACT. THESE UTILITIES SHALL BE PROTECTED DURING THE CONSTRUCTION AND CUT OR FILL PLACEMENT SHALL NOT PROHIBIT MAINTENANCE ACCESS TO THESE UTILITIES.

A UTILITY COORDINATION MEETING SHALL BE COORDINATED BY THE CONTRACTOR PRIOR TO THE START OF ANY WORK. ALL UTILITY ISSUES SHALL BE ADDRESSED IN ACCORDANCE WITH MAG SECTION 105.6.

BLUE STAKE

LOCATION OF UNDERGROUND UTILITIES SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ARS 40–360.22 PRIOR TO ANY EXCAVATION. BLUE STAKE SHALL BE CALLED AT 1–800–STAKE–IT FOR ACCURATE LOCATION OF UTILITIES AS NECESSARY AND PRIOR TO ANY EXCAVATION.

STREET CLOSURES

STREETS CLOSED BECAUSE OF CONSTRUCTION, SHALL BE PROVIDED WITH BARRICADES AND/OR HAZARD SIGNS AS REQUIRED BY THE ENGINEER AND APPROVED BY THE CITY ENGINEER.

AS–BUILT PLANS

THE CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF ALL APPROVED SHOP DRAWINGS AND AN ACCURATE, CURRENT, AS–BUILT SET OF PLANS ON SITE FOR REFERENCE AT ALL TIMES. THE AS–BUILT PLANS WILL BE FURNISHED BY THE CONTRACTOR TO THE CITY AT THE COMPLETION OF THE PROJECT FOR RECORD. THE AS–BUILT PLANS MUST BE UPDATED DAILY BY THE CONTRACTOR AND INCLUDE, IN ADDITION TO THE PLANNED CONSTRUCTION, ANY CHANGES AUTHORIZED BY THE OWNER AND ANY UTILITIES DISCOVERED DURING THE TRENCHING OPERATIONS BY SIZE, LOCATION, AND TYPE REDLINED ONTO THE PLANS BY STATION/DISTANCE/DEPTH.

PRIOR TO APPROVAL OF AN IMPROVEMENT PROJECT, AN "AS–BUILT" PLAN MUST BE SUBMITTED TO THE CITY OF SEDONA ENGINEER. THE AS–BUILT PLAN SHALL INDICATE THE ACTUAL LOCATION OF WATER MAINS, SEWER MAINS, UNDERGROUND DRAINAGE STRUCTURES, ALL SEWER AND WATER SERVICES, ALL FITTINGS, VALVES AND MANHOLES RELATIVE TO RIGHT–OF–WAY BOUNDARIES, LOT LINE, OR OTHER POINTS OF SURVEY.

THE ENGINEER SHALL PLACE ALL INFORMATION ON REPRODUCIBLE CONSTRUCTION PLANS. THE AS–BUILT REPRODUCIBLE PLANS WILL THEN BE PLACED IN CITY RECORDS. APPROPRIATE SUBMITTALS SHALL BE MADE AS REQUIRED TO ALL AGENCIES BY THE DEVELOPER.

CONSTRUCTION STAKING

THE ACCURACY OF ALL CONSTRUCTION WORK SHALL BE MAINTAINED AND VERIFIED BY THE DEVELOPER'S SURVEYOR AT THE DEVELOPERS EXPENSE BY PROVIDING CONSTRUCTION STAKING SUITABLE TO THE ENGINEER. STAKES WILL BE SET ESTABLISHING LINES AND GRADES (FINISH OR FLOWLINE) FOR ALL CONSTRUCTION INCLUDING ROADS, CURB AND GUTTER, SIDEWALKS, UTILITIES, STRUCTURES, AND OTHER WORK AS CONSIDERED NECESSARY BY THE ENGINEER. ALL SURVEY CONTROL SHALL BE SET BY THE DEVELOPER'S SURVEYOR FROM MONUMENTS ACCEPTABLE TO THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR RESTAKING EXPENSES.

INTERPRETATION OF PLANS

THESE PLANS ARE SUBJECT TO THE INTERPRETATION OF INTENT BY THE ENGINEER. ALL QUESTIONS REGARDING THESE PLANS SHALL BE DIRECTED TO THE ENGINEER. ANY INTERPRETATION OF THE PLANS BY ANYONE OTHER THAN THE ENGINEER SHALL BE RESPONSIBLE FOR ANY CONSEQUENCES THEREOF.

COORDINATION WITH OTHER PROJECTS

CONTRACTOR SHALL COORDINATE WORK WITH ON–GOING AND PROPOSED WORK ADJACENT TO OR NEAR THE PROJECT SITE.

PERMITS AND APPROVALS

CITY OF SEDONA, ARIZONA WATER COMPANY AND ADEQ REQUIRE THAT PERMITS BE ISSUED PRIOR TO NEW CONSTRUCTION, EXTENSION TO, OR MODIFICATION OF A WATER DISTRIBUTION SYSTEM, SEWAGE COLLECTION OR INDIVIDUAL SEWAGE TREATMENT SYSTEM.

CITY OF SEDONA REQUIRES THE ISSUANCE OF A GRADING PERMIT FOR ANY EXCAVATION OR GRADING (INCLUDING PLACEMENT OF FILL). A RIGHT–OF–WAY PERMIT IS REQUIRED PRIOR TO COMMENCING ANY WORK WITHIN ANY CITY RIGHT–OF–WAY.

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND EASEMENTS FROM ALL APPLICABLE JURISDICTIONS PRIOR TO CONSTRUCTION.

DRIVEWAY CONSTRUCTION

A SOIL INVESTIGATION REPORT PREPARED BY WESTERN TECHNOLOGIES, INC. IS THE BASIS FOR EARTHWORK AND PAVEMENT DESIGN. COPIES OF THE REPORT ARE AVAILABLE AT THE OFFICE OF THE ENGINEER.

ALL ELEVATIONS SHOWN ON THE PLANS ARE FINISHED SURFACE ELEVATIONS (EXCEPT AS NOTED)

SUBGRADE PREPARATION

NATIVE SUBGRADE SOIL TO RECEIVE PAVING SHALL BE STRIPPED OF VEGETATION, DEBRIS, ORGANIC RICH SOILS, TREES AND OTHER DELETERIOUS MATERIALS. THE SUBGRADE SHALL BE SCARIFIED AND COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO TEST T99, METHOD A AND/OR METHOD T–191. CLAYEY SOILS SHALL BE COMPACTED AND MAINTAINED (UNTIL COVERED) AT A MOISTURE CONTENT IN THE RANGE OF OPTIMUM –3 TO +1%. EXISTING SLOPING AREAS STEEPER THAN 5:1 (HORIZONTAL TO VERTICAL) SHALL BE BENCHED TO REDUCE THE POTENTIAL FOR SLIPPAGE BETWEEN EXISTING SLOPES AND NEW FILLS. BENCHES SHALL BE LEVEL AND WIDE ENOUGH TO ACCOMMODATE COMPACTION AND EARTH MOVING EQUIPMENT. ISOLATED CLAY POCKETS, IF ANY, SHALL BE OVEREXCAVATED BELOW SUBGRADE AND REPLACED WITH GRANULAR MATERIAL.

FILL CONSTRUCTION

SUBBASE FILL SHALL CONSIST OF ON–SITE OR IMPORTED SOILS. IMPORTED SOILS, IF ANY, SHALL CONFORM TO THE FOLLOWING:

GRADATION (ASTM C136)	% PASSING
6"	100
NO. 4	40–100
NO. 200	40 MAX
MAXIMUM PLASTICITY INDEX	12

FILL SHALL BE PLACED IN HORIZONTAL LIFTS AT THICKNESSES CONSISTENT WITH COMPACTION EQUIPMENT USED TO ACHIEVE UNIFORM DENSITIES THROUGHOUT LIFT THICKNESS. FILLS LESS THAN 10 FEET HIGH SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T–99, METHOD A. SEE TESTING REQUIREMENTS FOR FREQUENCY OF TESTING.

FILL CONSTRUCTION SITE PREPARATION, EXCAVATION AND PLACEMENT SHALL BE IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT. IT IS THE INTENT OF THE OWNER THAT ALL OF THE MATERIAL NECESSARY TO CONSTRUCT THE FILL WILL BE AVAILABLE ON SITE. HOWEVER, THE BID SCHEDULE ITEM FOR FILL CONSTRUCTION IS INTENDED TO INCLUDE FULL PAYMENT FOR ALL MATERIAL REQUIRED TO BUILD THE PROJECT AND THE DISPOSAL OF ANY EXCESS MATERIAL FROM THE SITE.

AGGREGATE BASE COURSE

1. AGGREGATE BASE COURSE MATERIAL SHALL CONFORM TO MAG SECTIONS 310 AND 702 OF THE MAG SPECIFICATIONS AND SHOULD BE WELL GRADED WITHIN THE FOLLOWING LIMITS:

SIEVE SIZE	PERCENT PASSING
1–1/2"	100
NO. 4	30–70
NO. 8	20–60
NO. 30	10–40
NO. 200	3–12
MAXIMUM PLASTICITY INDEX	5

ASPHALT CONCRETE

THE BITUMINOUS SURFACING SHALL BE DENSE GRADED, CENTRAL PLANT–MIX, ASPHALT CONCRETE CONFORMING TO SECTIONS 321 AND 710 OF THE STANDARD SPECIFICATIONS. AN AC–20 GRADE ASPHALT CEMENT SHALL BE USED AS THE BINDER. THE MINERAL AGGREGATE GRADING AND PERCENT ASPHALT BINDER SHALL BE BASED ON A JOB–MIX FORMULA DETERMINED BY THE MARSHALL METHOD OF THE MIX DESIGN (ASTM TEST METHOD D1559) AND TESTS OF THE MATERIALS INTENDED FOR USE. THE MINERAL AGGREGATE GRADING SHALL FALL WITHIN THE RANGES REQUIRED BY DESIGNATION C–3/4 AS INDICATED IN THE FOLLOWING TABULATION:

SIEVE SIZE	PERCENT PASSING
1"	100
3/4"	90–100
1/2"	75–100
3/8"	65–90
NO. 4	45–70
NO. 8	30–55
NO. 30	15–35
NO. 200	5–8

THE MAXIMUM PLASTICITY INDEX SHALL NOT EXCEED 5, THE SAND EQUIVALENT SHALL BE 55 MINIMUM, AND THE PERCENTAGE OF WEAR SHALL NOT EXCEED 40. VOLCANIC CINDERS SHALL NOT BE USED. THE ASPHALT CONCRETE SHALL HAVE A MINIMUM STABILITY OF 1800 POUNDS, A FLOW OF 8–16, AIR VOIDS OF 3% TO 5% AND A MINIMUM RETAINED STRENGTH OF 60%.

THE ASPHALTIC CONCRETE SHALL BE COMPACTED TO A MINIMUM OF 95.0 PERCENT OF THE SPECIFIC GRAVITY BY THE 50–BLOW METHOD OF ASTM D1559.

PAVING NOTES

THE CONTRACTOR SHALL VERIFY THE LOCATION, ELEVATION AND GENERAL CONDITION OF ALL EXISTING TIE–IN AND MATCHING POINTS OF PAVEMENT PRIOR TO ANY STREET CONSTRUCTION. SHOULD ANY LOCATIONS, ELEVATIONS, CROSS SLOPES, OR CONDITIONS DIFFER FROM WHAT IS SHOWN ON THE PLANS, THE CONTRACTOR SHALL CONTACT THE OWNERS AGENT IMMEDIATELY FOR APPROPRIATE CORRECTIVE ACTION. THE CONTRACTOR IS RESPONSIBLE FOR ANY COSTS INCURRED IF THIS PROCEDURE IS NOT FOLLOWED.

ALL VALVE BOXES, MANHOLE FRAMES AND COVERS, OR OTHER UTILITY APPURTENANCES WITHIN THE CONSTRUCTION LIMITS SHALL BE ADJUSTED TO FINAL FINISH GRADE, WHETHER SPECIFICALLY SHOWN ON THE PLANS OR NOT, PER YAG SECTION 345 AS NECESSARY FOR A COMPLETE JOB, OR AS DESIGNATED BY THE ENGINEER. WHERE NEW WATER METERS ARE INSTALLED IN THE SIDEWALKS, THE NEW BOXES AND COVERS SHALL BE SET FLUSH WITH THE SIDEWALK GRADE. FIRE HYDRANT SIDEWALK FLANGES SHALL BE SET 0.1' ABOVE ADJACENT FINISH GRADES.

POSITIVE DRAINAGE SHALL BE PROVIDED DURING CONSTRUCTION OF THE PROPOSED PAVEMENT STRUCTURE. THE CONSTRUCTED GRADIENT OF PAVED SURFACES SHALL ENSURE POSITIVE DRAINAGE AND WATER IS NOT ALLOWED TO POND IN AREAS DIRECTLY ADJOINING PAVED SECTIONS.

EXACT POINT OF MATCHING TERMINATION AND PAVING, IF NECESSARY, SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.

EXISTING STREET AND TRAFFIC SIGNS WILL BE MAINTAINED DURING CONSTRUCTION AND RELOCATED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.

PRIOR TO THE PLACEMENT OF CURB OR CURB AND GUTTER, THE CONTRACTOR SHALL CONTACT THE ENGINEER AT LEAST 48 HOURS IN ADVANCE TO VERIFY CURB STRINGLINE AND/OR FORMWORK. THE ENGINEER RESERVES THE RIGHT TO ADJUST CURB STRINGLINES, GRADE STAKES, OR FORMWORK PRIOR TO THE PLACEMENT OF CURB OR CURB AND GUTTER. ANY CUTS OR FILLS IN THE BASE COURSE LAYER AS A RESULT OF THE STRINGLINE ADJUSTMENTS IS INCIDENTAL TO THE WORK PERFORMED. THE CONTRACTOR SHALL PROVIDE SUFFICIENT EQUIPMENT AND PERSONNEL TO PERFORM THE STRINGLINE TEST IN THE PRESENCE OF THE ENGINEER.

AN ACCEPTABLE PAVEMENT SURFACE SHALL NOT VARY MORE THAN ¼ INCH FROM THE LOWER EDGE OF A 25–FOOT STRAIGHTEDGE WHEN THE STRAIGHTEDGE IS PLACED PARALLEL TO THE CENTER LINE OF THE ROADWAY. THE STRAIGHTEDGE SHALL BE FURNISHED BY THE CONTRACTOR AND BE ACCEPTABLE TO THE ENGINEER.

RELOCATIONS AND REMOVALS

REMOVAL OF EXISTING IMPROVEMENTS SHALL BE PERFORMED IN ACCORDANCE WITH MAG SECTION 350.

SIGNS, TREES SHRUBS, MAILBOXES AND OTHER INCIDENTALS REQUIRING RELOCATION SHALL BE MOVED ONLY FAR ENOUGH TO ALLOW CONSTRUCTION OF THE PROJECT AND CAUSE THE LEAST DISRUPTION TO PRIVATE PROPERTY, AND LANDSCAPE. FINAL POSITIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO RELOCATION. ALL RELOCATED ITEMS SHALL CONTINUE TO WORK IN THEIR INTENDED CAPACITY AFTER THE RELOCATION HAS BEEN ACCOMPLISHED. NO SIGNS SHALL BE RELOCATED TO POSITIONS OUTSIDE DESIGNATED RIGHTS–OF–WAY. SAFETY SHALL BE A PRIMARY CONSIDERATION IN THE PLACEMENT OF SHRUBBERY AND SIGNS WHICH COULD POSSIBLY DISRUPT THE SIGHT DISTANCE OF MOTORISTS.

MISCELLANEOUS REMOVALS AND OTHER WORK NECESSITATED BY THE WORK AS IT PROGRESSES AND NOT SPECIFICALLY CALLED OUT ON THE PLANS WILL BE CONSIDERED INCIDENTAL WORK.

TRENCHING AND BACKFILLING

ALL UTILITY TRENCHING SHALL BE PER YAG STD DTL 2–02 AND DETAIL SHEET.

ROUGH GRADING SHALL BE COMPLETED PRIOR TO INSTALLATION OF UNDERGROUND UTILITIES.

TRENCH BOTTOM SHALL BE COMPACTED BY SUITABLE MEANS APPROVED BY THE ENGINEER PRIOR TO PLACEMENT OF BEDDING MATERIAL. BEDDING MATERIAL SHALL BE PLACED TO PROVIDE UNIFORM AND ADEQUATE LONGITUDINAL SUPPORT UNDER THE PIPE. THE CONTRACTOR SHALL ENSURE THAT A MINIMUM COMPACTED DEPTH OF 6" IS MAINTAINED UNDERNEATH THE PIPE. BELL HOLES SHOULD BE PROVIDED AT EACH JOINT TO PERMIT PROPER ASSEMBLY WHILE MAINTAINING UNIFORM SUPPORT.

BEDDING MATERIAL SHALL BE ROUNDED GRAVEL WITH A MAXIMUM PARTICLE SIZE OF 3/4" AND SHALL BE NON–PLASTIC WITH A MAXIMUM PLASTICITY INDEX OF 10. WHERE DEPTH OF COVER IS 2–FT. OR LESS, BACKFILL MATERIAL SHALL BE ROUNDED GRAVEL WITH A MAXIMUM PARTICLE SIZE OF 3/4" AND WITH NO MORE THAN 20% PASSING THE #200 SIEVE.

BACKFILL SHALL BE PLACED IN LAYERS OF NOT MORE THAN 8" LOOSE DEPTH AND COMPACTED TO ACHIEVE COMPACTION OF 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T–99 AND T–191 OR ASTM D–2922 AND D–3017. THE CONTRACTOR SHALL CONTRACT WITH AN INDEPENDENT TESTING LABORATORY TO PROVIDE COMPACTION TESTING. TESTS SHALL BE PROVIDED AT MINIMUM INTERVALS OF ONE TEST PER 50 CUBIC YARDS OF TRENCH BACKFILL. TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER DAILY.

TRENCHING, PIPELAYING, BACKFILLING, AND ALL OTHER CONSTRUCTION SHALL BE PERFORMED UNDER THE INSPECTION, COORDINATION, AND SUPERVISION OF A REGISTERED PROFESSIONAL CIVIL ENGINEER.

NO TRENCH SHALL BE FILLED WITH BEDDING MATERIAL OR BACKFILL UNTIL THE EXCAVATION AND PIPE LAYING, RESPECTIVELY, HAVE BEEN APPROVED BY THE OWNER OR HIS AUTHORIZED REPRESENTATIVE.

THE EXCAVATION METHOD EMPLOYED SHALL BE THE CONTRACTOR'S OPTION. MATERIAL SHALL NOT BE STOCKPILED TO A DEPTH OF MORE THAN 5 FEET ABOVE FINISHED GRADE WITHIN 25 FEET OF ANY EXCAVATION OR STRUCTURE. EXCAVATION SHALL EXTEND SUFFICIENT DISTANCE FROM WALLS AND FOOTINGS TO ALLOW PLACING AND REMOVAL OF FORMS, INSTALLATION OF SERVICES AND INSPECTION BY THE ENGINEER. WITHIN 12" OF FINISHED GRADE SHOWN ON THE DRAWINGS, AND FOR THE MANHOLES, FILL AND BACKFILL SHALL BE NATIVE MATERIAL, FREE FROM BROKEN CONCRETE, ORGANIC MATERIAL, OR OTHER DEBRIS WITH SUFFICIENT FINES TO FILL ALL VOIDS AND TO INSURE A UNIFORMLY COMPACTED MASS OF THE REQUIRED DENSITY AND HAVING A MAXIMUM SIZE OF 2–½" INCHES WITH 0 TO 20% MINUS #200. ALL FILL AND BACKFILL SHALL BE PLACED IN LAYERS OF NOT MORE THAN 8" LOOSE AND COMPACTED TO 95% OF MAXIMUM DENSITY, DETERMINED BY AASHTO TEST METHOD T–99, PRIOR TO PLACEMENT OF THE NEXT LAYER.

DRAINAGE

VERTICAL SEPARATION TO DRAINAGE PIPES

WHERE CULVERTS OR DRAINAGE PIPES CROSS GRAVITY SEWERS, PRESSURE SEWERS, OR WATER MAINS, VERTICAL SEPARATION SHALL CONFORM TO A.A.C. R–18–5–502.C MINIMUM DESIGN CRITERIA; SEWER MAIN/STORM DRAIN CROSSINGS TO BE TREATED AS SEWER MAIN/WATER MAIN CROSSINGS.

DRAINAGE CHANNELS AND DITCHES

CHANNELS AND DITCHES SHOWN ON PLANS SHALL DAYLIGHT TO THE APPROPRIATE DESIGN LOCATIONS SO THAT POSITIVE DRAINAGE IS ACHIEVED.

CORRUGATED METAL AND HDPE PIPE

CORRUGATED METAL PIPE SHALL BE GALVANIZED HELICALLY CORRUGATED METAL PIPE AND END SECTIONS SHALL BE THE SIZE AS SHOWN ON THE PLANS WITH A MINIMUM COVER OF 12" BELOW TOP OF SUBGRADE. THE PIPE AND END SECTIONS SHALL BE 14 GAGE MINIMUM.

HIGH DENSITY POLYETHYLENE METAL PIPE SHALL BE CORRUGATED OUTSIDE AND SMOOTH WALL INSIDE AND CONFORM TO ASTM F2736 AS SHOWN ON THE PLANS WITH A MINIMUM COVER OF 12" BELOW TOP OF SUBGRADE.

LENGTHS AND INVERT ELEVATIONS OF PIPES SHOWN ON THE PLANS ARE FOR ESTIMATING AND DESIGN PURPOSES ONLY. ACTUAL LENGTHS AND INVERTS SHALL BE DETERMINED IN THE FIELD BASED ON THE RESULTS OF GRADE STAKING. ALL PIPE SHALL BE INSTALLED IN ACCORDANCE WITH M.A.G. SPECIFICATION SECTION 601 AND 621.

ALL PIPE SHALL HAVE END SECTIONS OR CONCRETE HEADWALLS AS SHOWN ON THE PLANS AT INLETS AND OUTLETS. IF ROCK IS ENCOUNTERED DURING INSTALLATION OF PIPE, RIPRAP MAY BE OMITTED IF APPROVED BY THE ENGINEER, HOWEVER RIPRAP SHALL NOT BE OMITTED FOR THE 2' AREA AROUND THE END SECTIONS.

DRAINAGE MAINTENANCE DURING CONSTRUCTION

ADEQUATE DRAINAGE OF THE CONSTRUCTION AREA SHALL BE PROVIDED AT ALL TIMES. CONSTRUCTION DRAINS SHALL BE PROVIDED AS NEEDED TO ENABLE WATER TO DRAIN FROM THE CONSTRUCTION AREA RAPIDLY AND WITHOUT DAMAGING THE WORK IN PROGRESS. TO FURTHER PROMOTE GOOD DRAINAGE OF THE SITE, DRAINAGE CHANNELS, CULVERTS, AND STRUCTURES, SHALL BE CONSTRUCTED FROM DOWNSTREAM TO UPSTREAM IN SUCH A WAY THAT, DURING CONSTRUCTION, THEY DO NOT IMPEDE THE FLOW OF WATER FROM THE CONSTRUCTION AREA.

DAMAGE TO ADJACENT PROPERTIES OR TO ANY PORTION OF THE WORK CAUSED BY THE CONTRACTOR'S FAILURE TO PROVIDE ADEQUATE DRAINAGE OF THE CONSTRUCTION SITE OR TO ORDER THE WORK SO AS TO MINIMIZE THE POSSIBLE EXTENT OF SUCH DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE

ELECTRICAL

ALL ELECTRICAL (APS) MAIN LINE LOCATIONS, TRANSFORMER LOCATIONS, SERVICE LOCATIONS, AND ANY OTHER ELECTRICAL APPURTENANCES ARE TO BE INSTALLED PER APS PROVIDED PLANS.

CALL TWO WORKING DAYS BEFORE YOU DIG

1–800–STAKE–IT

REVISIONS			
NO.	DESCRIPTION	DATE	BY

Shephard Wesnitzer, Inc.

75 Kallof Place
Sedona, AZ 86336
928.282.1061
928.282.2058 fax

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JOB NO:	11311
DATE:	NOV 12
SCALE:	AS SHOWN
DRAWN:	MWJ
DESIGN:	AHB
CHECKED:	AHB

POSSE GROUNDS PARK IMPROVEMENTS

SEDONA
ARIZONA

NOTES

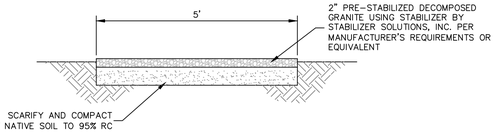
Registered Professional Engineer (Civil)
CERTIFICATE NO. 28658
ARTHUR H. BECKWITH
11/07/12
Date Signed
ARIZONA, U.S.A.
Expires 3/31/2013

DRAWING NO. C2

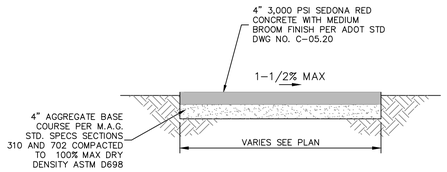
SHT NO. 2 OF 9

FILE: P:\2011\11311\Drawings\Construction Plans\C2–NOTES & DETAILS–11311.dwg MWJ–C3D12

PLOTTED: Nov 07, 2012-11:15am

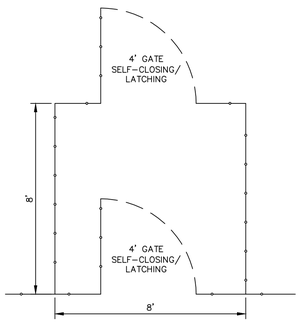


DECOMPOSED GRANITE WALKWAY SECTION (A) N.T.S.

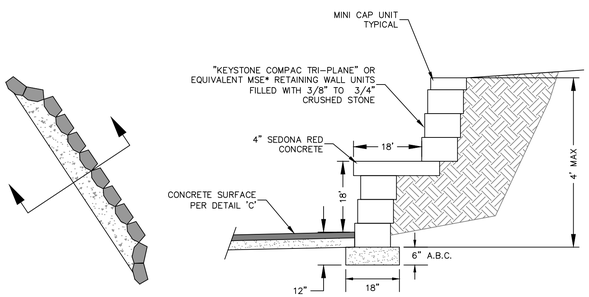


NOTE: SIDEWALK TO COMPLY WITH ALL ADA REQUIRMENTS WITH RUNNING SLOPE NOT TO EXCEED 1:20 (5%).

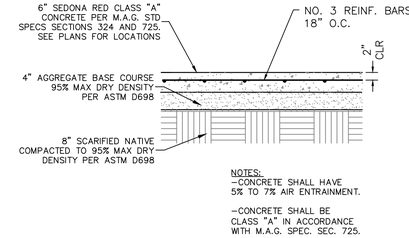
CONCRETE SIDEWALK SECTION (B) N.T.S.



CHAIN LINK GATE ENTRANCE DETAIL (I) N.T.S.



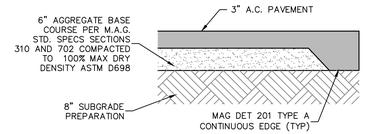
BENCH DETAIL (J) N.T.S.



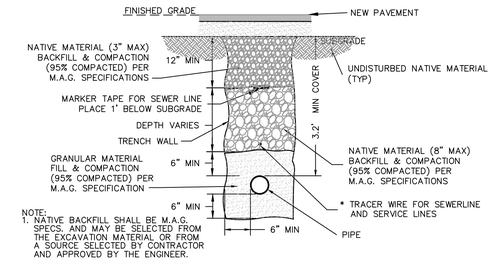
NOTES:
-CONCRETE SHALL HAVE 5% TO 7% AIR ENTRAINMENT.

-CONCRETE SHALL BE CLASS "A" IN ACCORDANCE WITH M.A.G. SPEC. SEC. 725.

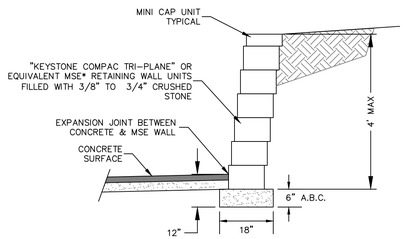
CONCRETE PAVING STRUCTURAL SECTION (C) N.T.S.



ASPHALT PAVEMENT SECTION (D) N.T.S.

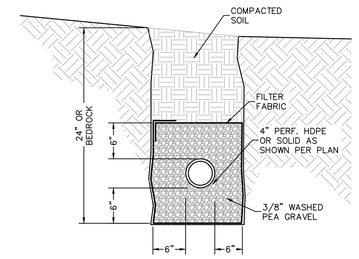


TYPICAL TRENCHING AND BACKFILL DETAIL (E) N.T.S.

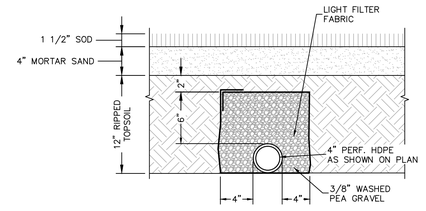


MSE RETAINING WALL DETAIL (F) N.T.S.

* EQUIVALENT MSE
SPLIT FACE
85#/UNIT
8"hx12"dx18"w
SEDONA RED



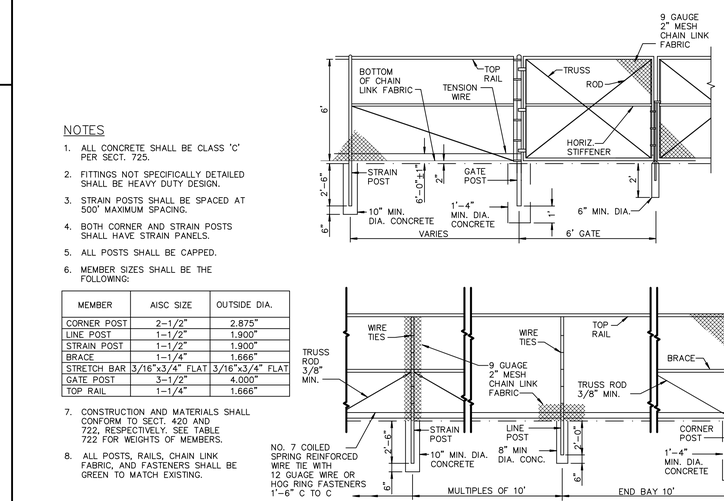
UNDER DRAIN DETAIL (G) N.T.S.



NOTE: SEE DWG C2 FOR ADDITIONAL SODDING, TOPSOIL PLACEMENT AND GRADING INFORMATION.

FIELD SECTION AND UNDER DRAIN DETAIL (H) N.T.S.

BENCH DETAIL (J) N.T.S.



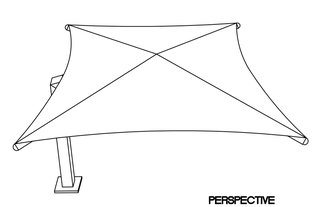
NOTES

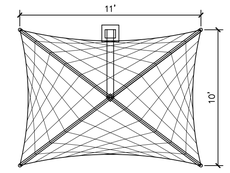
1. ALL CONCRETE SHALL BE CLASS 'C' PER SECT. 725.
2. FITTINGS NOT SPECIFICALLY DETAILED SHALL BE HEAVY DUTY DESIGN.
3. STRAIN POSTS SHALL BE SPACED AT 500' MAXIMUM SPACING.
4. BOTH CORNER AND STRAIN POSTS SHALL HAVE STRAIN PANELS.
5. ALL POSTS SHALL BE CAPPED.
6. MEMBER SIZES SHALL BE THE FOLLOWING:

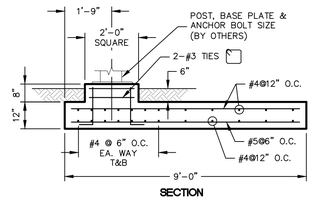
MEMBER	AISC SIZE	OUTSIDE DIA.
CORNER POST	2-1/2"	2.875"
LINE POST	1-1/2"	1.900"
STRAIN POST	1-1/2"	1.900"
BRACE	1-1/4"	1.666"
STRETCH BAR	3/16"x3/4" FLAT	3/16"x3/4" FLAT
GATE POST	3-1/2"	4.000"
TOP RAIL	1-1/4"	1.666"

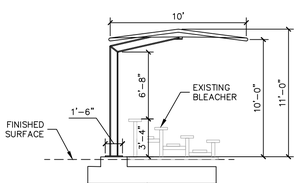
7. CONSTRUCTION AND MATERIALS SHALL CONFORM TO SECT. 420 AND 722, RESPECTIVELY. SEE TABLE 722 FOR WEIGHTS OF MEMBERS.
8. ALL POSTS, RAILS, CHAIN LINK FABRIC, AND FASTENERS SHALL BE GREEN TO MATCH EXISTING.

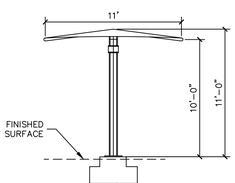
6' CHAIN LINK FENCE DETAIL (K) N.T.S.

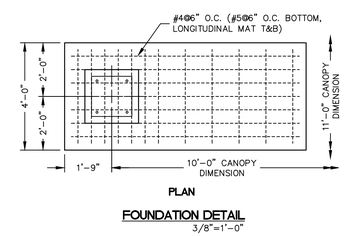












FOUNDATION DETAIL
3/8"=1'-0"

SHADE STRUCTURE DETAIL (L) N.T.S.

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928.282.2058 fax
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DATE:	NOV 12
SCALE:	1"=10'
DRAWN:	MWJ
DESIGN:	AHB
CHECKED:	AHB

POSSE GROUNDS PARK IMPROVEMENTS — SEDONA ARIZONA

DETAILS

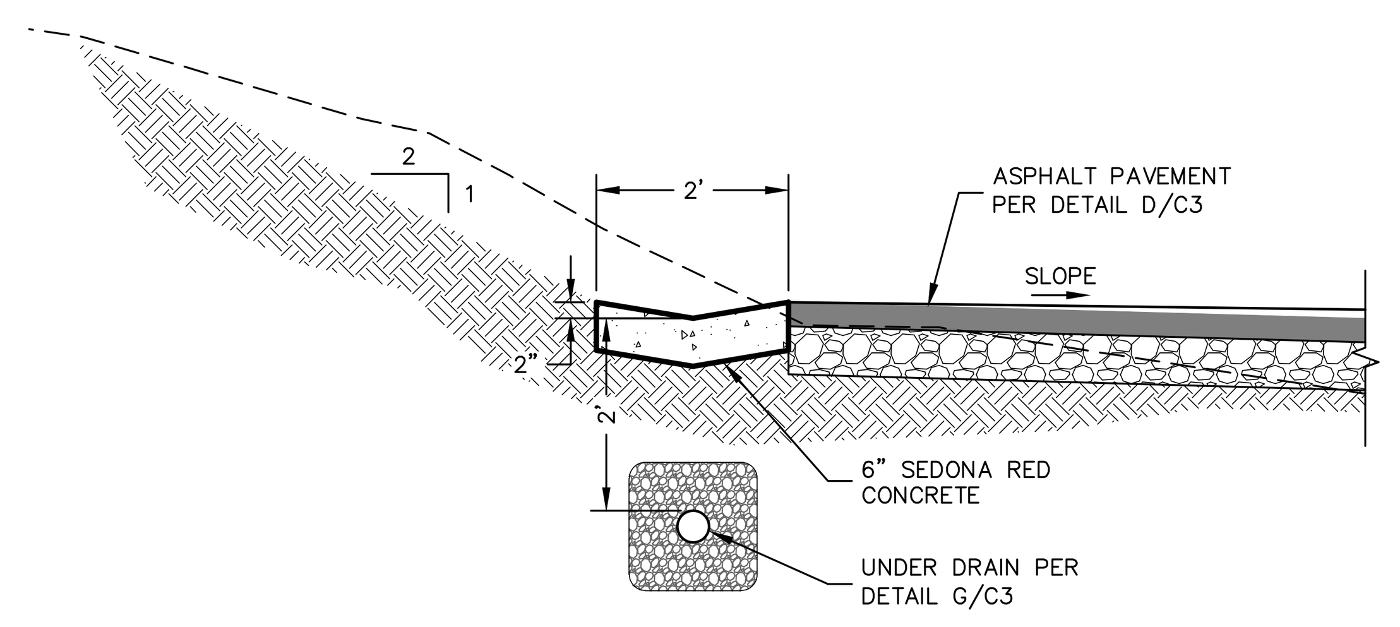
CERTIFICATE NO. 28658 ARTHUR H. BECKWITH 11/07/12 Date Signed ARIZONA, USA expires 3/31/2013

DRAWING NO. C3

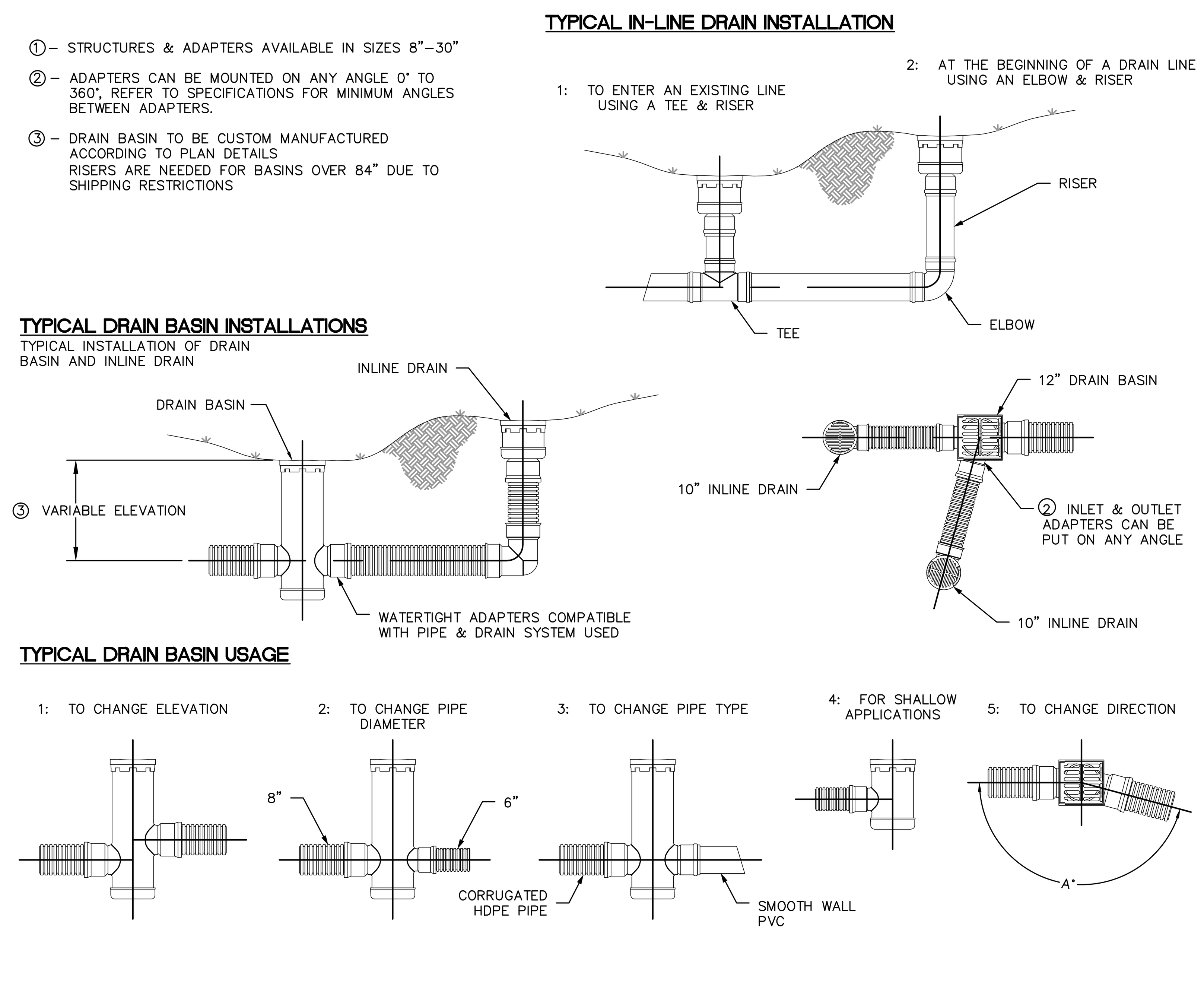
SHT NO. 3 OF 9

FILE: P:\2011\11311\Drawings\Construction Plans\C3-DETAILS-11311.dwg MWJ-C3D12

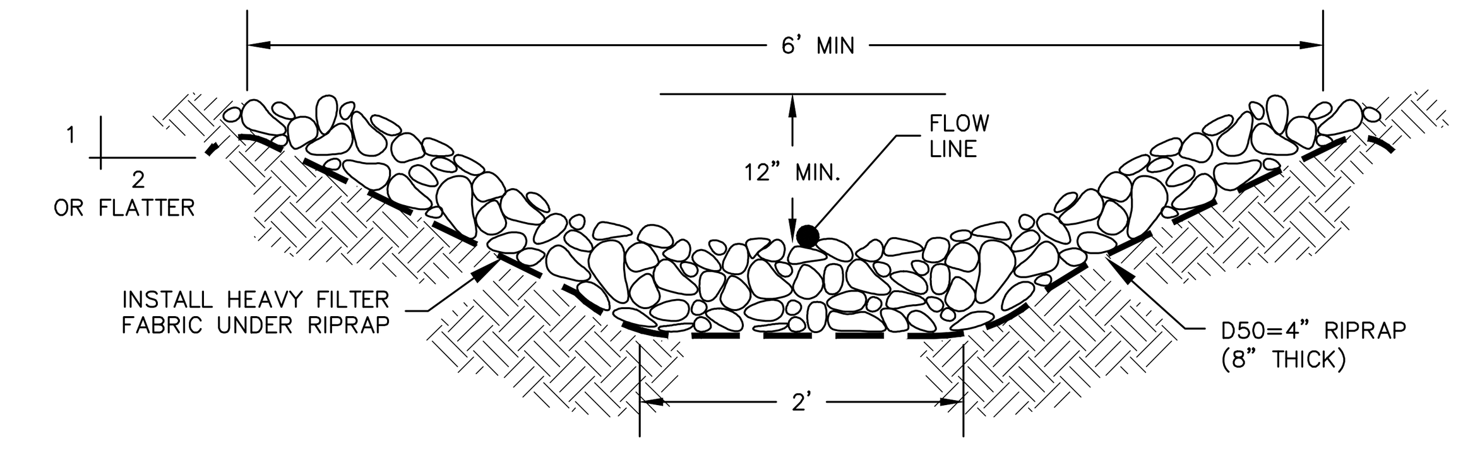
PLOTTED: Nov 07, 2012-11:15am



VALLEY GUTTER (A / C6)
NO SCALE



STORM DRAIN DETAILS (E / ––)
NYLOPLAST OR EQUIVALENT N.T.S.



SPILLWAY EROSION PROTECTION (B / C6)
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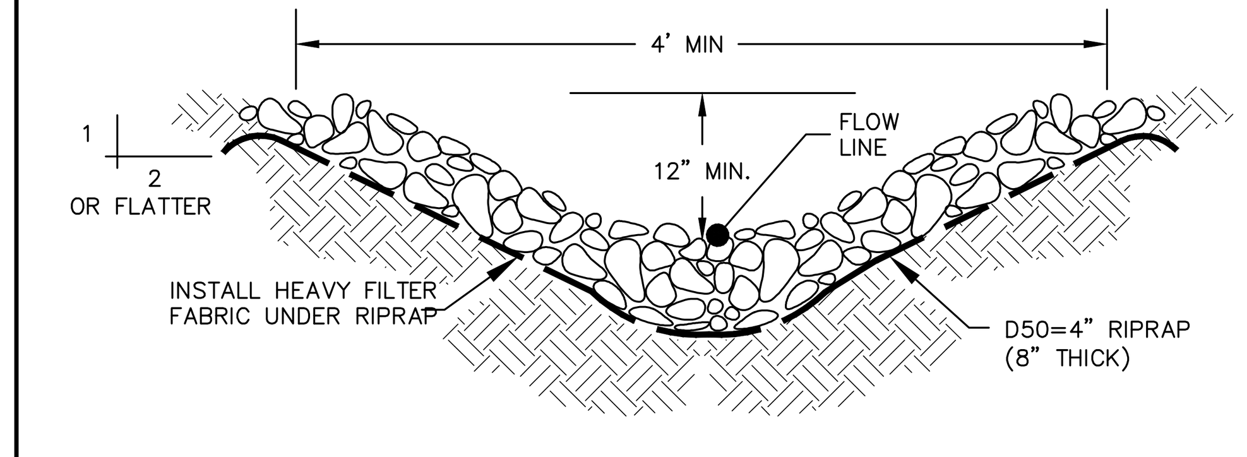

DRAINAGE SWALE PROTECTION (C / C6)
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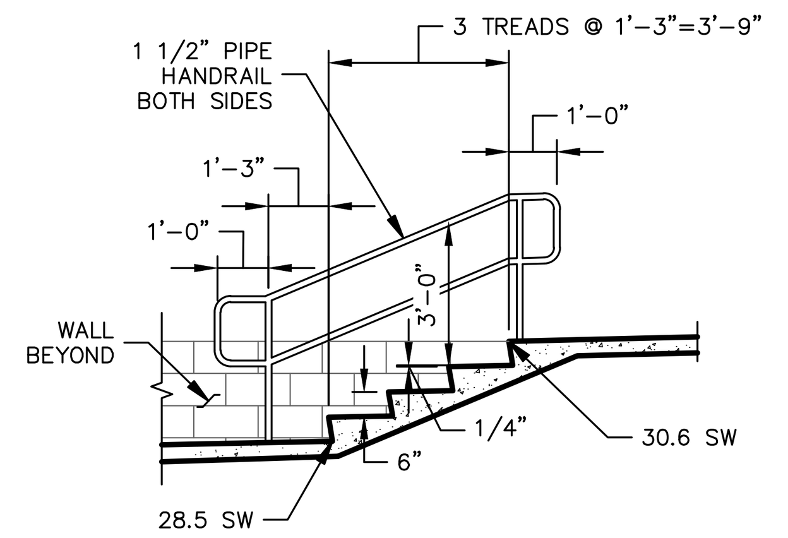
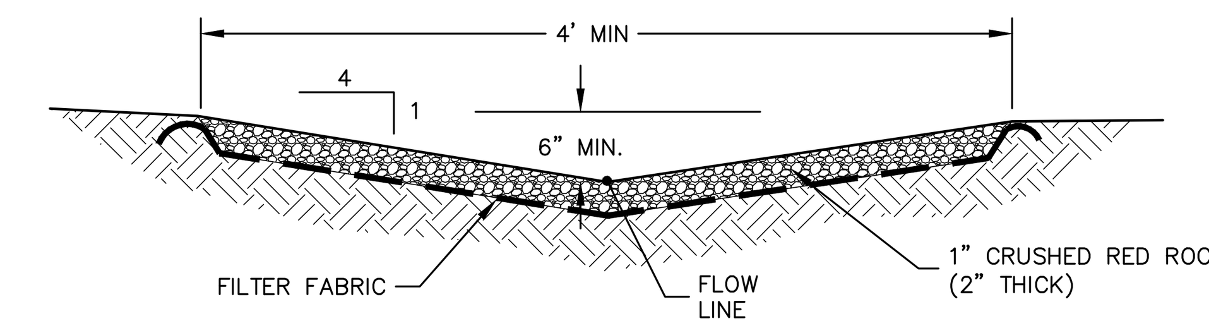


STAIR AND HANDRAIL DETAIL (D / C6)
1/4"=1'-0"



RETENTION SWALE (F / –)
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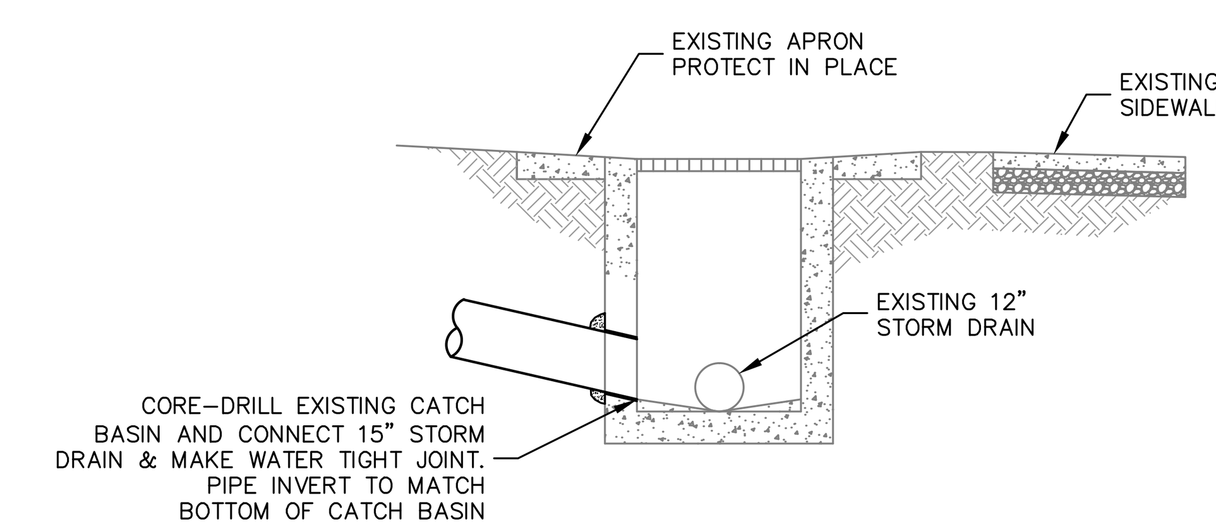
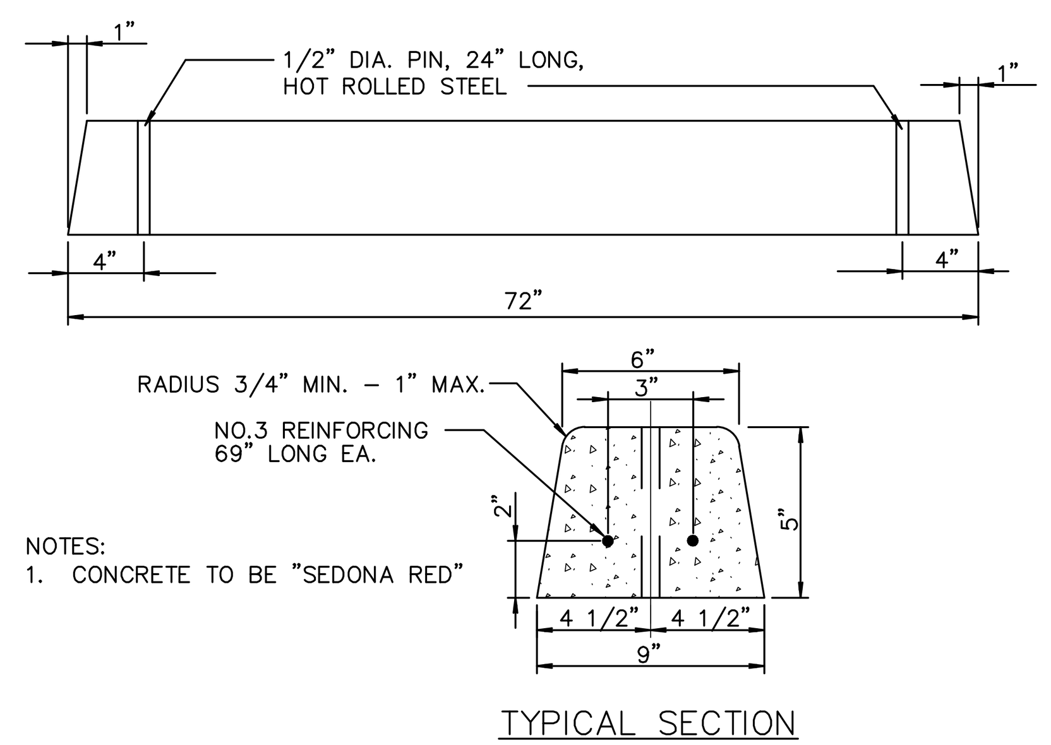
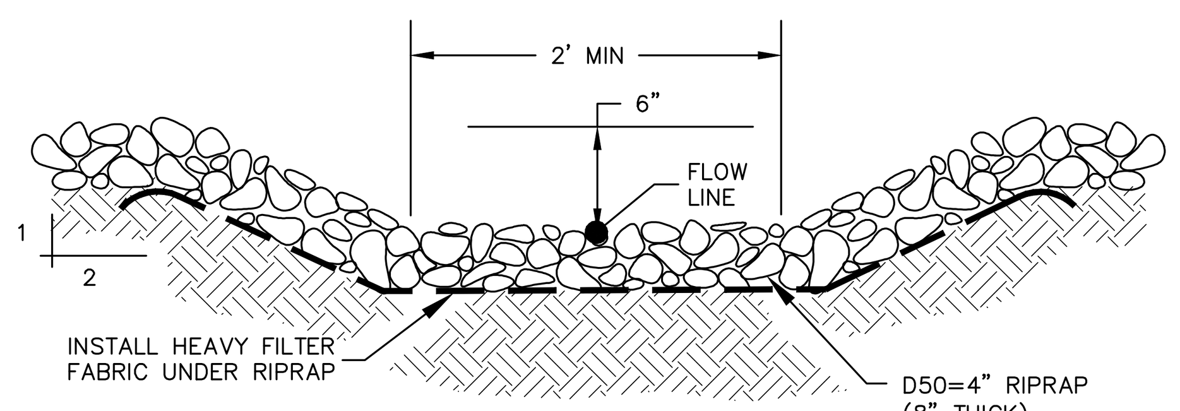


EXISTING CATCH BASIN TIE-IN (G / C6)
NO SCALE



WHEEL STOP DETAIL (H / ––)
N.T.S.



SPILLWAY DETAIL (I / C6)
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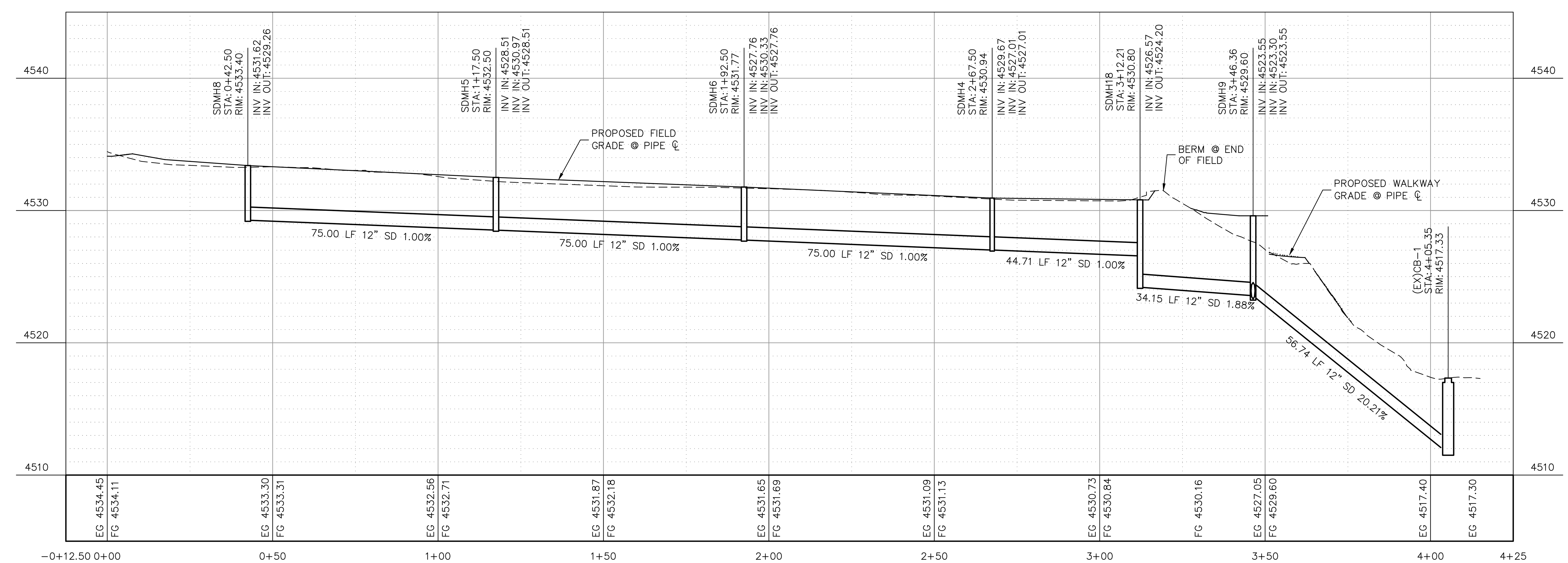

STORM DRAIN PROFILE
H=1:20 V=1:5

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CHECKED:	AHB

POSSE GROUNDS PARK IMPROVEMENTS — SEDONA, ARIZONA

DETAILS

Registered Professional Engineer, Certificate No. 28658, ARTHUR H. BECKWITH, 11/07/12, ARIZONA, USA, Expires 3/31/2013

DRAWING NO. C4
SHT NO. 4 OF 9

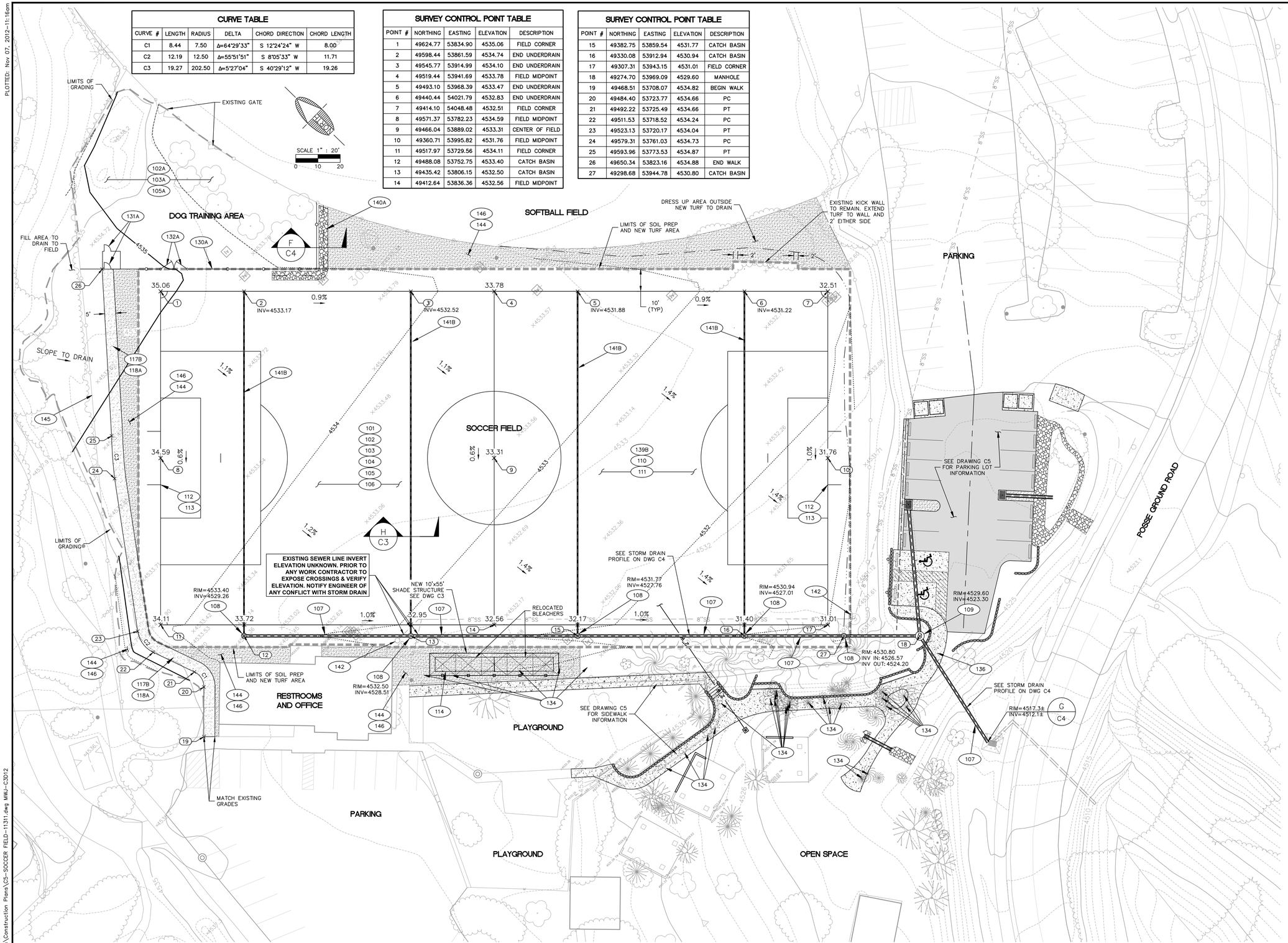
FILE: P:\2011\11311\Drawings\Construction Plans\C4-DETAILS-11311.dwg MWJ-C3012

PLOTTED: Nov 07, 2012-11:16am

CURVE TABLE					
CURVE #	LENGTH	RADIUS	DELTA	CHORD DIRECTION	CHORD LENGTH
C1	8.44	7.50	Δ=64°29'33"	S 12°24'24" W	8.00
C2	12.19	12.50	Δ=55°51'51"	S 8°05'33" W	11.71
C3	19.27	202.50	Δ=5°27'04"	S 40°29'12" W	19.26

SURVEY CONTROL POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	49624.77	53834.90	4535.06	FIELD CORNER
2	49598.44	53861.59	4534.74	END UNDERDRAIN
3	49545.77	53914.99	4534.10	END UNDERDRAIN
4	49519.44	53941.69	4533.78	FIELD MIDPOINT
5	49493.10	53968.39	4533.47	END UNDERDRAIN
6	49440.44	54021.79	4532.83	END UNDERDRAIN
7	49414.10	54048.48	4532.51	FIELD CORNER
8	49571.37	53782.23	4534.59	FIELD MIDPOINT
9	49466.04	53889.02	4533.31	CENTER OF FIELD
10	49360.71	53995.82	4531.76	FIELD MIDPOINT
11	49517.97	53729.56	4534.11	FIELD CORNER
12	49488.08	53752.75	4533.40	CATCH BASIN
13	49435.42	53806.15	4532.50	CATCH BASIN
14	49412.64	53836.36	4532.56	FIELD MIDPOINT

SURVEY CONTROL POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
15	49382.75	53859.54	4531.77	CATCH BASIN
16	49330.08	53912.94	4530.94	CATCH BASIN
17	49307.31	53943.15	4531.01	FIELD CORNER
18	49274.70	53969.09	4529.60	MANHOLE
19	49468.51	53708.07	4534.82	BEGIN WALK
20	49484.40	53723.77	4534.66	PC
21	49492.22	53725.49	4534.66	PT
22	49511.53	53718.52	4534.24	PC
23	49523.13	53720.17	4534.04	PT
24	49579.31	53761.03	4534.73	PC
25	49593.96	53773.53	4534.87	PT
26	49650.34	53823.16	4534.88	END WALK
27	49298.68	53944.78	4530.80	CATCH BASIN



KEYNOTES			
101	1	LS	CLEAR & GRUB INCLUDING REMOVE AND DISPOSE EXISTING TURF
102	505	CY	EARTHWORK EXCAVATION (CUT)
103	418	CY	EARTHWORK EMBANKMENT (FILL)
104	670	CY	SAND IMPORT PER TECHNICAL SPECIFICATIONS
105	6035	SY	TOPSOIL PLACEMENT & GRADING PER TECHNICAL SPECIFICATIONS
106	6035	SY	INSTALL TURFGRASS SOD PER TECHNICAL SPECIFICATIONS
107	361	LF	INSTALL 15" HDPE ADS N-12 ASTM F2736 (OR EQUAL) STORM DRAIN PIPE PER MAG STD 621
108	5	EA	INSTALL 18" NYLOPLAST (OR EQUAL) IN-LINE DRAIN WITH GRATE PER MANUFACTURERS DETAILS
109	1	EA	INSTALL 30" NYLOPLAST (OR EQUAL) DRAINAGE BASIN WITH SOLID LID STAMPED "STORM DRAIN" PER MANUFACTURERS DETAILS
110	1	LS	REMOVE AND SALVAGE IRRIGATION HEADS
111	1	LS	REPLACE AND ADJUST IRRIGATION HEADS TO FINISHED GRADE
112	1	LS	REMOVE AND SALVAGE GOAL POSTS
113	1	LS	REPLACE GOAL POSTS UPON COMPLETION OF GRADING
114	1	LS	CONSTRUCT SHADE STUCTURE PER TECHNICAL SPECIFICATIONS AND DETAIL 'L' ON DWG C3
134	28	EA	REMOVE AND DISPOSE TREE AND STUMP
136	1	LS	REMOVE AND DISPOSE EXISTING CMP
142	2	EA	ADJUST EXISTING MANHOLE, CLEANOUT, OR VALVE BOX TO FINISH GRADE
144	40	CY	INSTALL 1" CRUSHED RED ROCK (2" THICK)
145	155	LF	REMOVE, SALVAGE, AND REPLACE FENCE AFTER GRADING
146	716	SY	SUBGRADE PREPARATION FIELD PERIMETER
ADDITIVE ALTERNATE 1 - DOG TRAINING AREA			
102A	80	CY	EARTHWORK EXCAVATION (CUT)
103A	2	CY	EARTHWORK EMBANKMENT (FILL)
105A	704	SY	SUBGRADE PREPARATION
118A	1140	SF	CONSTRUCT COMPACTED DECOMPOSED GRANITE WITH BINDER WALKWAY PER DETAIL 'A' ON DWG C3
130A	142	LF	INSTALL 6' HIGH CHAIN LINK FENCE PER DETAIL 'K' ON DWG C3
131A	2	EA	INSTALL 3'x6' HIGH CHAIN LINK GATE PER DETAIL 'I' ON DWG C3
132A	2	EA	INSTALL 6'x6' HIGH CHAIN LINK GATE PER DETAIL 'K' ON DWG C3
140A	1	LS	CONSTRUCT RETENTION DITCH WITH 3/4" RED ROCK PER DETAIL 'F' ON DWG C4
ADDITIVE ALTERNATE 2 - SIDEWALK, IRRIGATION & PIPING			
117B	1140	SF	CONSTRUCT "SEDONA RED" CONCRETE SIDEWALK PER DETAIL 'B' DWG C3
139B	1	LS	REMOVE AND SALVAGE ALL SPRINKLER HEADS, VALVES AND VALVE BOXES AND GIVE TO CITY MAINTENANCE FOR FUTURE USE. CAP 4" IRRIGATION SERVICE MAIN (IN THE AREA OF THE PROPOSED DOG PARK) DURING THE SOCCER FIELD CONSTRUCTION PERIOD. CONTRACTOR OR THEIR SUB SHALL DESIGN (SHOP DRAWINGS REQUIRED) AND INSTALL A NEW IRRIGATION SYSTEM FOR THE NEW SOCCER FIELD USING HUNTER I-40 ROTORS. CONNECT NEW SYSTEM TO EXISTING 4", 90 PSI, MAIN LINE LOCATED IN THE PROPOSED DOG TRAINING AREA. ALL CONTROL WIRES WOULD BE RUN TO THAT 4" PIPE CONNECTION POINT AND SPLICED TO THE EXISTING CONTROL WIRES OF THE EXISTING IRRIGATION TIMER. SPRINKLER ZONES SHALL BE DESIGNED TO ALLOW PLAY ON HALF OF THE FIELD WHILE THE OTHER HALF IS BEING WATERED. THE CONTRACTOR DESIGNING AND INSTALLING THE IRRIGATION SYSTEM SHALL HAVE AT LEAST 5 YEARS OF EXPERIENCE DESIGNING AND INSTALLING LARGE SCALE COMMERCIAL SYSTEMS. CONTRACTOR SHALL ALSO MAKE RECOMMENDATIONS FOR APPROVAL AND IMPLEMENTATION FOR A FERTILIZER TREATMENT FOR THE MORTAR SAND AND FOR PLACEMENT ON THE SOD AFTER PLANTING.
141B	616	LF	INSTALL 4" PERFORATED FIELD UNDERDRAIN PIPE PER DETAIL 'H' ON DWG C3

FILE: P:\2011\11311\Drawings\Construction Plans\C5-SOCCER FIELD-11311.dwg MWJ-C3D12

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75 Kallof Place
Sedona, AZ 86336
928.282.1061
928.282.2058 fax
www.swiaz.com

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DATE:	NOV 12
SCALE:	1"=20'
DRAWN:	MWJ
DESIGN:	AHB
CHECKED:	AHB

POSSE GROUNDS PARK IMPROVEMENTS
SEDONA ARIZONA

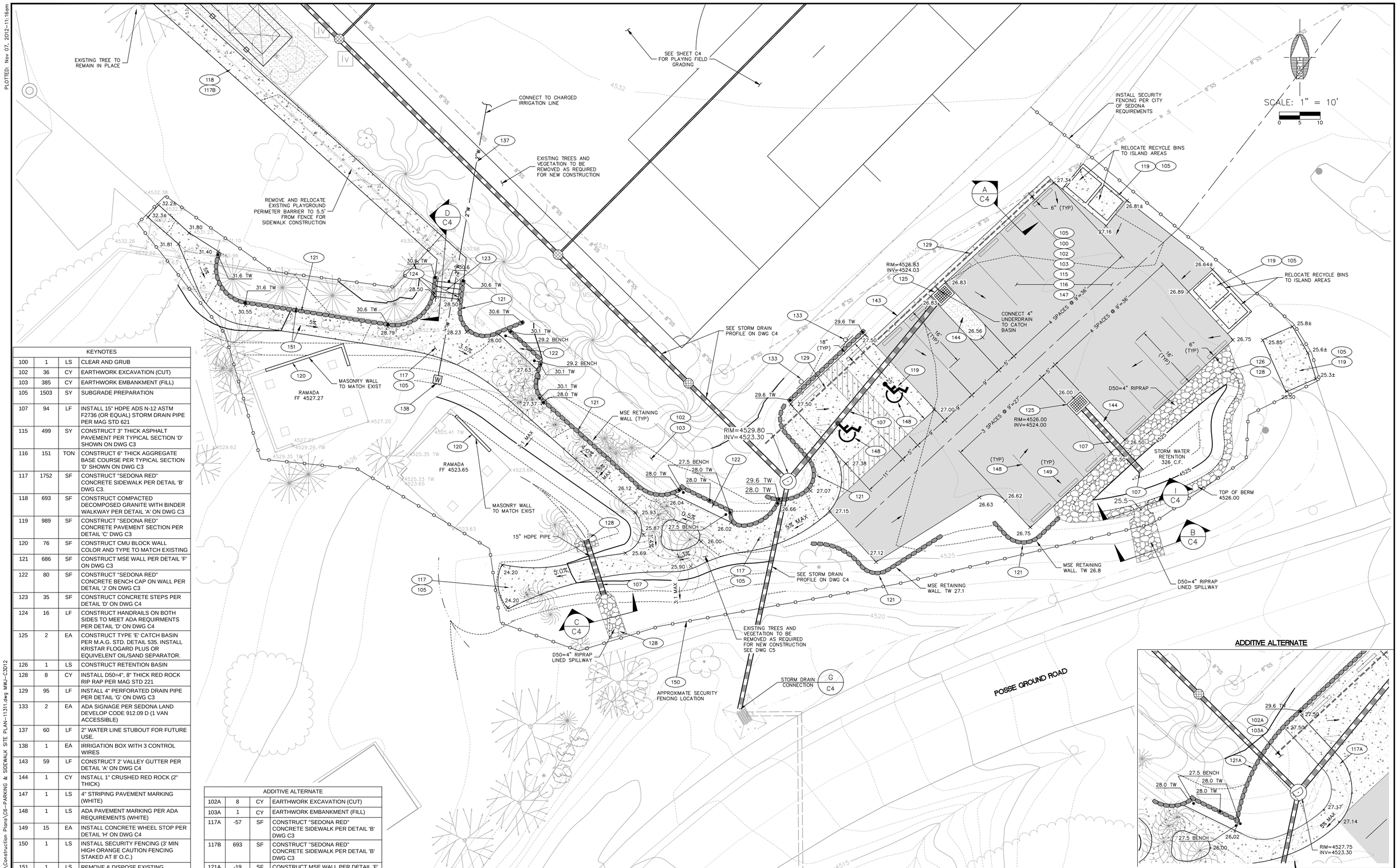
OVERALL SITE PLAN AND FIELD SURVEY CONTROL

REGISTERED LANDSCAPE ARCHITECT 28658 ARTHUR H. BECKWITH 11/07/12 Date Signed ARIZONA, USA Expires 3/31/2013

DRAWING NO. C5

SHT NO. 5 OF 9

PLOTTED: Nov 07, 2012-11:16am



KEYNOTES			
100	1	LS	CLEAR AND GRUB
102	36	CY	EARTHWORK EXCAVATION (CUT)
103	385	CY	EARTHWORK EMBANKMENT (FILL)
105	1503	SY	SUBGRADE PREPARATION
107	94	LF	INSTALL 15" HDPE ADS N-12 ASTM F2736 (OR EQUAL) STORM DRAIN PIPE PER MAG STD 621
115	499	SY	CONSTRUCT 3" THICK ASPHALT PAVEMENT PER TYPICAL SECTION 'D' SHOWN ON DWG C3
116	151	TON	CONSTRUCT 6" THICK AGGREGATE BASE COURSE PER TYPICAL SECTION 'D' SHOWN ON DWG C3
117	1752	SF	CONSTRUCT "SEDONA RED" CONCRETE SIDEWALK PER DETAIL 'B' DWG C3.
118	693	SF	CONSTRUCT COMPACTED DECOMPOSED GRANITE WITH BINDER WALKWAY PER DETAIL 'A' ON DWG C3
119	989	SF	CONSTRUCT "SEDONA RED" CONCRETE PAVEMENT SECTION PER DETAIL 'C' DWG C3
120	76	SF	CONSTRUCT CMU BLOCK WALL COLOR AND TYPE TO MATCH EXISTING
121	686	SF	CONSTRUCT MSE WALL PER DETAIL 'F' ON DWG C3
122	80	SF	CONSTRUCT "SEDONA RED" CONCRETE BENCH CAP ON WALL PER DETAIL 'J' ON DWG C3
123	35	SF	CONSTRUCT CONCRETE STEPS PER DETAIL 'D' ON DWG C4
124	16	LF	CONSTRUCT HANDRAILS ON BOTH SIDES TO MEET ADA REQUIRMENTS PER DETAIL 'D' ON DWG C4
125	2	EA	CONSTRUCT TYPE 'E' CATCH BASIN PER M.A.G. STD. DETAIL 535. INSTALL KRISTAR FLOGARD PLUS OR EQUIVELENT OIL/SAND SEPARATOR.
126	1	LS	CONSTRUCT RETENTION BASIN
128	8	CY	INSTALL D50=4", 8" THICK RED ROCK RIP RAP PER MAG STD 221
129	95	LF	INSTALL 4" PERFORATED DRAIN PIPE PER DETAIL 'G' ON DWG C3
133	2	EA	ADA SIGNAGE PER SEDONA LAND DEVELOP CODE 912.09 D (1 VAN ACCESSIBLE)
137	60	LF	2" WATER LINE STUBOUT FOR FUTURE USE.
138	1	EA	IRRIGATION BOX WITH 3 CONTROL WIRES
143	59	LF	CONSTRUCT 2' VALLEY GUTTER PER DETAIL 'A' ON DWG C4
144	1	CY	INSTALL 1" CRUSHED RED ROCK (2" THICK)
147	1	LS	4" STRIPING PAVEMENT MARKING (WHITE)
148	1	LS	ADA PAVEMENT MARKING PER ADA REQUIREMENTS (WHITE)
149	15	EA	INSTALL CONCRETE WHEEL STOP PER DETAIL 'H' ON DWG C4
150	1	LS	INSTALL SECURITY FENCING (3' MIN HIGH ORANGE CAUTION FENCING STAKED AT 8' O.C.)
151	1	LS	REMOVE & DISPOSE EXISTING LANDSCAPE WOOD RETAINING WALL

ADDITIVE ALTERNATE			
102A	8	CY	EARTHWORK EXCAVATION (CUT)
103A	1	CY	EARTHWORK EMBANKMENT (FILL)
117A	-57	SF	CONSTRUCT "SEDONA RED" CONCRETE SIDEWALK PER DETAIL 'B' DWG C3
117B	693	SF	CONSTRUCT "SEDONA RED" CONCRETE SIDEWALK PER DETAIL 'B' DWG C3
121A	-19	SF	CONSTRUCT MSE WALL PER DETAIL 'F' ON DWG C3

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928.282.2058 fax
www.swiaz.com

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SCALE:	1"=10'
DRAWN:	MWJ
DESIGN:	AHB
CHECKED:	AHB

POSSE GROUNDS PARK IMPROVEMENTS
SEDONA ARIZONA

PARKING AND SIDEWALK GRADING AND DRAINAGE PLAN

CERTIFICATE NO. 28658 ARTHUR H. BECKWITH 11/07/12 Date Signed
REGISTERED PROFESSIONAL ENGINEER (Civil) ARIZONA, USA
Expires 3/31/2013

DRAWING NO. C6
SHT NO. 6 OF 9

FILE: P:\2011\11311\Drawings\Construction Plans\C6-PARKING & SIDEWALK SITE PLAN-11311.dwg MWJ-C3D12

PLOTTED: Nov 07, 2012–11:17am

SURVEY CONTROL POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	49419.87	53789.95	4532.73	PI – MATCH EXISTING
2	49329.14	53890.70	4530.65	PI
3	49323.97	53889.92	4530.60	PI
4	49324.03	53889.42	4530.60	PI
5	49317.03	53888.59	4528.34	PC
6	49310.24	53897.49	4528.00	PT
7	49313.08	53904.46	4530.60	PI – TOP OF WALL
8	49311.47	53900.51	4529.20	PI – BENCH
9	49304.21	53908.36	4529.20	PI – BENCH
10	49300.30	53907.29	4527.58	PC
11	49293.91	53909.18	4527.37	PT
12	49273.12	53932.42	4526.12	PC
13	49272.66	53943.33	4527.50	PT – BENCH
14	49267.11	53954.71	4527.50	PI – BENCH
15	49263.40	53957.77	4526.21	PCC
16	49269.86	53967.16	4526.65	PI – END WALL
17	49270.43	53964.07	4529.60	PI – TOP WALL
18	49270.23	53970.20	4526.93	PCC
19	49280.60	53974.33	4527.50	PT
20	49286.74	53968.87	4527.50	PC
21	49293.72	53969.19	4527.50	PT – END WALL
22	49283.53	53978.94	4527.42	PC
23	49267.39	53979.17	4527.14	PCC
24	49257.46	53958.02	4526.04	PCC
25	49254.31	53947.64	4525.89	PCC
26	49252.64	53940.47	4525.78	PCC
27	49243.60	53900.76	4524.20	PI
28	49254.45	53899.27	4524.20	PI
29	49255.08	53917.52	4525.12	PCC
30	49257.01	53928.04	4525.66	PCC
31	49267.43	53931.32	4525.93	PT
32	49295.76	53899.67	4527.52	PC
33	49306.70	53876.51	4528.42	PT
34	49312.95	53835.91	4530.48	PC
35	49321.29	53825.17	4531.19	PT
36	49332.68	53820.29	4531.81	PI
37	49339.24	53812.81	4532.31	PI
38	49342.22	53815.47	4532.25	PI
39	49335.46	53822.84	4531.81	PI
40	49330.91	53830.04	4531.40	PI
41	49317.89	53836.67	4530.55	PT
42	49312.52	53871.59	4528.79	PC
43	49321.22	53883.04	4529.50	PT
44	49324.74	53883.46	4530.60	PI – TOP OF WALL
45	49324.80	53882.97	4530.60	PI – TOP OF WALL

SURVEY CONTROL POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
46	49329.07	53883.31	4530.60	PI
47	49416.34	53786.40	4532.78	PI
48	49255.06	53990.59	4527.12	PI – PARKING LOT
49	49270.81	54015.79	4526.63	PC
50	49269.97	54022.11	4526.62	PT
51	49263.41	54028.18	4526.75	PI
52	49281.76	54047.99	4526.50	PI
53	49293.50	54037.12	4526.00	PI
54	49296.56	54040.42	4526.00	PI
55	49284.82	54051.29	4526.50	PI
56	49309.28	54077.70	4526.75	PI
57	49321.02	54066.83	4526.89	PI
58	49326.45	54072.70	4526.64	PI – MATCH EXISTING
59	49316.18	54082.21	4527.12	PI – TOP OF CONCRETE
60	49343.30	54051.83	4526.85	PI – MATCH EXISITNG
61	49337.15	54046.72	4527.16	PI
62	49347.79	54033.92	4527.35	PI
63	49352.25	54041.07	4527.12	PI – TOP OF CONCRETE
64	49323.33	54007.51	4526.83	PI
65	49313.42	54016.68	4526.62	PC
66	49310.02	54013.01	4526.67	PT
67	49319.93	54003.84	4526.83	PI
68	49307.70	53990.64	4527.45	PI
69	49310.63	53987.92	4527.50	PI
70	49292.29	54004.90	4526.99	PI
71	49412.72	53803.85	4532.00	COLUMN CL
72	49404.58	53812.11	4532.00	COLUMN CL
73	49396.43	53820.37	4532.00	COLUMN CL
74	49388.28	53828.63	4532.00	COLUMN CL
75	49380.14	53836.89	4531.84	COLUMN CL
76	49259.06	53975.41	4527.12	BEGIN WALL
77	49253.97	53986.45	4527.12	PCC
78	49252.75	53993.71	4527.12	PT
79	49261.26	54007.08	4527.12	END WALL
80	49264.03	54019.38	4527.12	BEGIN WALL
81	49261.40	54021.81	4527.12	PC
82	49261.09	54030.82	4527.12	PT
83	49265.68	54035.66	4527.12	END WALL
84	49258.08	53940.10	4525.81	PCC
85	49260.98	53938.13	4525.85	PCC
86	49262.87	53938.31	4525.90	PCC
87	49265.21	53941.65	4525.95	PT
88	49263.72	53945.85	4525.96	PC
89	49258.99	53945.79	4525.97	PCC

CURVE TABLE

CURVE #	LENGTH	RADIUS	DELTA	CHORD DIRECTION	CHORD LENGTH
C1	13.49	6.50	Δ=118°57'01"	S 52°41'15" E	11.20
C2	7.01	6.33	Δ=63°26'17"	S 16°27'15" E	6.66
C3	11.84	8.59	Δ=78°55'24"	S 87°38'05" E	10.92
C4	5.51	3.08	Δ=102°19'11"	N 39°26'46" W	4.80
C5	12.07	10.24	Δ=67°30'23"	S 55°38'27" W	11.38
C6	9.74	10.00	Δ=55°48'20"	N 82°09'45" E	9.36
C7	10.04	6.00	Δ=95°49'14"	N 6°18'24" E	8.91
C8	7.73	5.00	Δ=88°34'52"	N 2°38'39" E	6.98
C12	7.44	15.00	Δ=28°24'12"	N 76°54'41" E	7.36
C13	41.13	84.54	Δ=27°52'30"	S 77°10'32" W	40.72
C14	11.63	9.71	Δ=68°37'19"	S 7°50'10" E	10.95
C15	18.44	37.93	Δ=27°51'29"	N 88°01'16" E	18.26
C16	10.70	89.54	Δ=6°50'49"	S 79°39'14" W	10.69
C17	13.74	6.00	Δ=131°15'02"	N 17°27'08" E	10.93
C18	25.98	45.00	Δ=33°04'25"	N 64°42'36" W	25.62
C19	14.20	14.00	Δ=58°06'00"	S 52°11'48" E	13.60
C20	17.04	9.00	Δ=108°28'43"	S 27°00'27" E	14.61
C21	16.05	10.00	Δ=91°57'57"	N 52°46'14" E	14.38
C22	6.91	5.00	Δ=79°12'51"	N 82°24'34" W	6.38
C24	12.62	13.50	Δ=53°32'24"	N 65°13'43" W	12.16
C25	8.07	5.50	Δ=84°01'58"	N 80°28'31" W	7.36
C26	10.03	6.33	Δ=90°46'18"	S 88°03'30" E	9.02
C27	19.12	12.00	Δ=91°16'15"	N 2°49'59" E	17.16
C28	30.44	43.97	Δ=39°39'40"	S 28°47'24" W	29.83
C29	22.32	36.46	Δ=35°04'18"	N 66°00'15" E	21.97
C31	6.22	2.50	Δ=142°34'38"	N 0°45'38" E	4.74
C32	5.89	8.23	Δ=41°00'24"	N 80°52'59" E	5.76
C33	3.88	2.50	Δ=89°00'36"	S 34°06'31" E	3.50
C34	1.91	11.00	Δ=9°56'13"	N 5°25'41" E	1.91
C35	4.76	2.50	Δ=109°00'45"	S 54°57'57" W	4.07

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POSSE GROUNDS PARK IMPROVEMENTS

SEDONA
ARIZONA

PARKING AND SIDEWALK SURVEY CONTROL

Registered Professional Engineer (Civil) Certificate No. 28658 ARTHUR H. BECKWITH 11/07/12 Date Signed ARIZONA, U.S.A. Expires 3/31/2013

DRAWING NO. C7

SHT NO. 7 OF 9

PLOTTED: Nov 07, 2012-11:17am

SCALE 1" : 20'
0 10 20

SOFTBALL FIELD

DOG PARK

SOCCER FIELD

PARKING

PARKING LOT

POSSE GROUND ROAD

RESTROOMS AND OFFICE

PLAYGROUND

PARKING

PLAYGROUND

OPEN SPACE

SHADE STRUCTURE

RELOCATED BLEACHERS

SIDEWALK (TYP)

MATCH EXISTING GRADES

STRAW WATTLES TO REMAIN IN PLACE UPON COMPLETION OF CONSTRUCTION

35.06 34.59 34.11 33.78 33.31 32.56 32.51 31.76 31.01

LEGEND

- STRAW ROLE / STRAW WATTLE
- DISTURBED AREA HATCHING (1.8± ACRES)
- RIP RAP
- INLET PROTECTION
- DRAINAGE FLOW
- SC-17 — BMP DETAIL SEE SWPPP SHEET 2
- IP — INLET PROTECTION
- TC — TEMPORARY DRIVEWAY (TRACK CONTROL)

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POSSE GROUNDS PARK IMPROVEMENTS — SEDONA ARIZONA

STORM WATER POLLUTION PREVENTION PLAN

CERTIFICATE No. 28658 ARTHUR H. BECKWITH 11/07/12 Date Signed ARIZONA, USA Expires 3/31/2013

DRAWING NO. S1

SHT NO. 8 OF 9

FILE: P:\2011\11311\Drawings\Construction Plans\SWPPP-01-11311.dwg MWJ-C3D12

PLOTTED: Nov 07, 2012–11:17am

(A) EROSION & SEDIMENT CONTROL STANDARD NOTES

1. THE CONTRACTOR MUST NOTIFY BLUE STAKE AT 1–800–STAKE–IT AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION IN ACCORDANCE WITH APPLICABLE CITY ORDINANCES AND POLICIES.
2. THE CONTRACTOR GRANTS THE RIGHT–OF–ENTRY ON TO THIS PROPERTY TO THE DESIGNATED CITY OF SEDONA PERSONNEL FOR THE PURPOSE OF INSPECTING AND MONITORING FOR COMPLIANCE WITH EROSION AND SEDIMENT CONTROL LAW AND THE DESIGN AND CONSTRUCTION STANDARDS MANUAL.
3. ALL EROSION CONTROL MEASURES SHOWN ON THE APPROVED PLAN MUST BE IN PLACE, INSPECTED AND APPROVED BY THE CITY OF SEDONA PRIOR TO CLEARING, STRIPPING OF TOPSOIL OR GRADING.
4. THE CONTRACTOR SHALL POST A SIGN AT THE MAIN ENTRANCE TO THE CONSTRUCTION SITE CONTAINING THE AZPDES AUTHORIZATION NUMBER AND/OR COPY OF NOTICE OF INTENT AUTHORIZATION, CONSTRUCTION SITE OPERATOR CONTACT NAME AND TELEPHONE NUMBER, A BRIEF PROJECT DESCRIPTION, AND THE LOCATION OF THE APPROVED STORM WATER POLLUTION PREVENTION PLAN. THE SIGN SHALL ALSO DISPLAY THE NAME, CONTACT INFORMATION, AND QUALIFICATIONS OF THE PERSONNEL PERFORMING ROUTINE INSPECTIONS.
5. THE CONTRACTOR'S REPRESENTATIVE IS RESPONSIBLE FOR THE INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION.
6. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL COMPLETE AND ADEQUATE STABILIZATION IS ACHIEVED.
7. WATER MUST BE PUMPED INTO AN APPROVED FILTERING DEVICE DURING DEWATERING OPERATIONS.
8. THE CONTRACTOR'S REPRESENTATIVE SHALL INSPECT AND DOCUMENT ALL EROSION AND SEDIMENT CONTROL MEASURES DAILY AND AFTER EACH SIGNIFICANT RAINFALL. THE FOLLOWING ITEMS WILL BE CHECKED IN PARTICULAR:
   - A. SEDIMENT BASINS WILL BE CLEANED OUT WHEN THE LEVEL OF SEDIMENT BUILDUP REACHES THE CLEANOUT ELEVATION INDICATED ON THE RISER PIPE. SEDIMENT SHALL BE DISPOSED IN SUITABLE AREAS AND IN SUCH A MANNER THAT WILL NOT ERODE OR CAUSE SEDIMENTATION PROBLEMS. THE BASIN EMBANKMENT SHOULD BE CHECKED REGULARLY TO ENSURE THAT IT IS STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT. EMERGENCY SPILLWAYS SHOULD BE CHECKED REGULARLY TO ENSURE THAT ITS LINING IS WELL ESTABLISHED AND EROSION RESISTANT.
   - B. SEDIMENT BASINS WILL BE CHECKED REGULARLY FOR SEDIMENT CLEANOUT. SEDIMENT SHALL BE REMOVED AND THE BASIN RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE HALF THE DESIGN VOLUME OF THE WET STORAGE. SEDIMENT REMOVED FROM THE BASIN SHALL BE DEPOSITED IN A SUITABLE AREA AND IN A SUCH A MANNER THAT IT WILL NOT ERODE AND CAUSE SEDIMENTATION PROBLEMS.
   - C. GRAVEL OUTLETS WILL BE CHECKED REGULARLY FOR SEDIMENT BUILDUP WHICH WILL PREVENT DRAINAGE. IF THE GRAVEL IS CLOGGED BY SEDIMENT, IT SHALL BE REMOVED AND CLEANED OR REPLACED.
   - D. SILT FENCE BARRIERS WILL BE CHECKED REGULARLY FOR UNDERMINING OR DETERIORATION OF THE FABRIC. SEDIMENT SHALL BE REMOVED WHEN THE LEVEL OF SEDIMENT DEPOSITION REACHES HALF WAY TO THE TOP OF THE BARRIER.
   - E. SEEDED AREAS WILL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED AND RESEEDED AS NEEDED.
   - F. STREAM DIVERSION AND STORM CONVEYANCE CHANNELS SHALL BE INSPECTED DAILY AND AFTER EACH RAIN TO ENSURE THEY ARE FUNCTIONING PROPERLY AND THAT THE INTEGRITY OF THE LININGS ARE NOT IMPAIRED. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES MUST BE MADE IMMEDIATELY AFTER THE INSPECTION.
9. INSPECTION FORMS SHALL BE COMPLETED BY THE CONTRACTOR'S INSPECTOR WITH THE MINIMUM FOLLOWING INFORMATION: INSPECTION DATE, TITLE AND QUALIFICATIONS OF EACH INSPECTOR, WEATHER INFORMATION FOR PERIOD SINCE LAST INSPECTION, LOCATION OF DISCHARGE OF SEDIMENT OR OTHER POLLUTANTS, LIST OF BMPS THAT NEED TO BE MAINTAINED OR ARE INADEQUATE, LIST ADDITIONAL NEEDED BMPS, CORRECTIVE ACTION REQUIRED, SOURCES OF ALL NON–STORMWATER AND CONTROL MEASURES, DATES WHEN MAJOR GRADING ACTIONS OCCURRED, POLLUTANT DISCHARGE STATUS OF STORAGE AREAS, AND DATES WHEN CONSTRUCTION ACTIVITIES CEASED.
10. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING INSPECTION RECORDS FOR AT LEAST THREE (3) YEARS FOLLOWING THE COMPLETION OF PROJECT. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTOL PLAN SHALL BE KEPT ON SITE AT ALL TIMES AND SHALL BE AMENDED AS NECESSARY TO REFLECT CURRENT SWPPP BMP'S
11. THE SWPPP SHALL BE MODIFIED BY THE CONTRACTOR WITHIN 7 CALENDAR DAYS FOLLOWING AN INSPECTION THAT DISCOVERS AN INADEQUATE BMP. BMPS SHALL BE MODIFIED OR ADDED AS SOON AS PRACTICABLE AFTER THE BMP HAS BEEN DETERMINED INADEQUATE.
12. SEDIMENT BASIN MEASURES WILL BE INSTALLED AS A FIRST STEP IN GRADING AND WILL BE SEEDED AND MULCHED IMMEDIATELY FOLLOWING INSTALLATION.
13. PERMANENT SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED AND ALL WORK COMPLETED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN (7) DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN UNDISTURBED FOR LONGER THAN FOURTEEN (14) DAYS. ROADS AND PARKING AREAS SHALL BE STABILIZED AS SOON AS PRECIPITATION OCCURS OR IRRIGATION IS AVAILABLE.
14. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES WILL BE REMOVED WITHIN 30 DAYS AFTER ADEQUATE SITE STABILIZATION AND AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, AS AUTHORIZED BY THE CITY OF SEDONA INSPECTORS. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES WILL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.
15. WHEN SEDIMENT APPEARS ON A PAVED ROAD SURFACE, THE ROAD WILL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT WILL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING WILL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.
16. AREAS WHICH ARE NOT TO BE DISTURBED WILL BE CLEARLY MARKED BY FLAGS, SIGNS, ETC.
17. A COPY OF THE PROJECT'S STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE MAINTAINED AT THE CONSTRUCTION SITE AND SHALL ALWAYS BE AVAILABLE FOR REVIEW.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR UPDATING THE SWPPP THROUGHOUT CONSTRUCTION AND INDICATE ANY AND ALL REVISIONS / UPDATES ON THIS PLAN.
19. APPROVAL OF PLANS DOES NOT RELIEVE THE OPERATOR FROM CORRECTING ERRORS OR OMISSIONS DISCOVERED DURING CONSTRUCTION. CONFORMANCE WITH THE REQUIREMENTS OF THIS PLAN SHALL IN NO WAY RELIEVE THE OPERATOR FROM HIS RESPONSIBILITIES TO THE SITE AND ADJACENT PROPERTIES. TEMPORARY EROSION CONTROL SHALL CONSIST OF, BUT NOT BE LIMITED TO, CONSTRUCTING SUCH FACILITIES AND TAKING SUCH MEASURES AS ARE NECESSARY TO PREVENT, CONTROL AND ABATE WATER, MUD AND EROSION DAMAGE TO PUBLIC AND PRIVATE PROPERTY AS A RESULT OF THE CONSTRUCTION OF THIS PROPERTY.
20. CONTRACTOR SHALL IMMEDIATELY RESTORE ANY DAMAGED EROSION CONTROL MEASURE WITHIN THE PROJECT BOUNDARY.
21. FLOOD PLAIN LIMITS SHALL BE CLEARLY MARKED IN THE FIELD BY FLAGS, SIGNS, ETC.
22. TREE SAVE AREAS SHALL BE CLEARLY MARKED IN THE FIELD BY ORANGE SAFETY FENCE.
23. AN ORANGE SAFETY FENCE MUST BE INSTALLED AROUND ALL SILT TRAPS AND SEDIMENT BASINS.
24. THE SWPPP SHALL BE MODIFIED BY THE CONTRACTOR WITHIN 15 BUSINESS DAYS FOLLOWING ANY CHANGE IN DESIGN, CONSTRUCTION OPERATION, OR MAINTENANCE THAT HAS A SIGNIFICANT EFFECT ON DISCHARGE OR NOT PREVIOUSLY ADDRESSED IN THE SWPPP.
25. THE SWPPP SHALL BE MODIFIED BY THE CONTRACTOR WITHIN 15 BUSINESS DAYS IF IT IS DETERMINED THAT DISCHARGE IS CAUSING OR CONTRIBUTING TO WATER QUALITY EXCEEDENCES OR THE SWPPP IS INEFFECTIVE.
26. ALL WORK IN ADOT RIGHT OF WAY SHALL MEET THE REQUIREMENTS OF THE ADOT CONSTRUCTION PERMIT.

(B) EROSION CONTROL MEASURES

ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS ESTABLISHED HEREIN.

(C) STRUCTURAL PRACTICES

1. SILT FENCE BARRIER: SILT FENCE SEDIMENT BARRIERS WILL BE INSTALLED DOWNSLOPE OF AREAS WITH MINIMAL GRADES TO FILTER SEDIMENT LADEN RUNOFF FROM SHEET FLOW AS INDICATED ON THE PLANS.
2. A TEMPORARY CONSTRUCTION ENTRANCE SHALL BE INSTALLED WHERE THE ACCESS AREA INTERSECTS WITH EXISTING ROADS. DURING MUDDY CONDITIONS DRIVERS OF CONSTRUCTION VEHICLES WILL BE REQUIRED TO WASH THEIR WHEELS BEFORE ENTERING THE HIGHWAY.
3. STORM DRAIN INLET & SPILLWAY PROTECTION: ALL STORM SEWER INLETS AND SPILLWAYS SHALL BE PROTECTED DURING CONSTRUCTION. SEDIMENT–LADEN WATER SHALL BE FILTERED BEFORE ENTERING THE STORM SEWER INLETS AND CULVERTS.

(D) VEGETATIVE PRACTICES

1. TOP SOILING (STOCKPILE) TOPSOIL WILL BE STRIPPED FROM AREAS TO BE GRADED AND STOCKPILED FOR LATER USE. STOCKPILE LOCATIONS ARE TO BE STABILIZED WITH TEMPORARY VEGETATION. PRIOR TO LAND DISTURBING ACTIVITIES, THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION & SEDIMENT PLAN TO THE OWNER COVERING THE STOCKPILE AREA WHICH MAY HAVE TO BE APPROVED BY THE PLAN APPROVING AUTHORITY BEFORE ANY ACTIVITY COMMENCES.
2. TEMPORARY SEEDING FOR ALL DENUDED AREAS WHICH WILL BE LEFT DORMANT FOR EXTENDED PERIODS OF TIME SHALL BE SEEDED WITH FAST GERMINATING TEMPORARY VEGETATION IMMEDIATELY FOLLOWING GRADING. SELECTION OF THE SEED MIXTURE WILL DEPEND ON THE TIME OF YEAR IT IS APPLIED.
3. EXISTING VEGETATION WILL BE PRESERVED OUTSIDE ALL LIMITS OF DISTURBANCE.

(E) MANAGEMENT STRATEGIES

1. CONSTRUCTION WILL BE SEQUENCED SO THAT GRADING OPERATIONS CAN BEGIN AND END AS QUICKLY AS POSSIBLE.
2. INSTALL TEMPORARY CONSTRUCTION ENTRANCE. MUD AND DEBRIS SHALL BE WASHED FROM ALL CONSTRUCTION VEHICLES AND EQUIPMENT BEFORE LEAVING THE SITE. A WATER TANK TRUCK WILL BE USED IF PUBLIC WATER IS UNAVAILABLE.
3. INSTALL PERIMETER CONTROLS AS SHOWN TO INCLUDE DIVERSION DIKES, SILT FENCE, AND STRAW ROLLS. SEDIMENT TRAPPING MEASURES SHALL BE INSTALLED AS A FIRST STEP IN GRADING
4. GRADING OPERATIONS MAY COMMENCE ONCE PERIMETER CONTROLS, DIVERSIONS AND TRAPPING MEASURES ARE INSTALLED.
5. FILL SLOPE SURFACES SHALL BE LEFT IN ROUGHENED CONDITION TO REDUCE SHEET AND RILL EROSION OF THE SLOPES. THE CONTRACTOR SHALL REDIRECT CONCENTRATED FLOW AWAY FROM THE FILL SLOPES BY INSTALLING EARTH BERMS AND DIRECT THE RUN–OFF TO STABILIZED OUTLET OR SEDIMENT BASIN AND TRAPPING DEVICES.
6. TEMPORARY SEEDING OR OTHER STABILIZATION METHODS WILL FOLLOW IMMEDIATELY AFTER GRADING.
7. ONCE THE UTILITIES, CURB AND GUTTER, AND THE ROADS ARE BROUGHT NEAR FINAL GRADE IN A MANNER SUCH THAT STORM SEWER SYSTEMS ARE FUNCTIONAL, INSTALL THE STANDARD INLET PROTECTION AROUND THE STRUCTURES.
8. ONCE FINAL GRADES ARE ESTABLISHED TO CREATE SHEET FLOW CONDITIONS IN ACCORDANCE WITH REQUIRED DRAINAGE PATTERNS, THE CONTRACTOR MAY INSTALL SILT FENCE AND REMOVE EXISTING DIVERSION DIKES AND BASIN ALONG THE SITE PERIMETER WHEN AUTHORIZED BY THE INSPECTOR. INSTALL CHECK DAMS AND OUTLET PROTECTION AS SHOWN ON THE PLAN.
9. FOR VEGETATIVE STABILIZATION OF ALL DENUDED AREAS SEE EROSION CONTROL MEASURES AND VEGETATIVE PRACTICES.
10. THE JOB SUPERINTENDENT SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL PRACTICES.
11. AFTER ACHIEVING PERMENANT STABILIZATION, THE TEMPORARY EROSION & SILTATION CONTROLS WILL BE CLEANED UP AND REMOVED FROM THE SITE.

(F) MAINTENANCE

IN GENERAL, ALL EROSION & SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND AFTER EACH SIGNIFICANT RAINFALL.

(G) GENERAL LAND CONSERVATION NOTES

1. VEGETATED STABILIZATION MEASURES MUST BE INITIATED AS SOON AS FINAL GRADING IS COMPLETE AND PRECIPITATION OCCURS OR IRRIGATION IS AVAILABLE.
2. ALL EROSION AND SILTATION CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING. THE FIRST AREAS TO BE CLEARED ARE TO BE THOSE REQUIRED FOR THE PERIMETER CONTROLS.
3. ALL STORM AND SANITARY LINES NOT IN STREET ARE TO BE MULCHED AND SEEDED AS SOON AS PRECIPITATION OCCURS OR IRRIGATION IS AVAILABLE.
4. ELECTRIC POWER, TELEPHONE, AND GAS SUPPLY TRENCHES ARE TO BE COMPACTED, SEEDED, AND MULCHED AS SOON AS PRECIPITATION OCCURS OR IRRIGATION IS AVAILABLE.
5. DURING CONSTRUCTION, ALL STORM SEWER INLETS WILL BE PROTECTED BY INLET PROTECTION DEVICES, MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS.
6. ANY DISTURBED AREAS NOT PAVED, SODDED OR BUILT UPON ARE TO BE MULCHED WITH HAY OR STRAW MULCH AT THE RATE OF TWO TONS PER ACRE AND OVER–SEEDED AS SOON AS PRECIPITATION OR IRRIGATION IS AVAILABLE.
7. AT THE COMPLETION OF CONSTRUCTION PROJECTS, AND PRIOR TO THE RELEASE OF THE BOND, ALL TEMPORARY SILTATION AND EROSION CONTROLS SHALL BE REMOVED AND DISTURBED AREAS SHALL BE STABILIZED.
8. TEMPORARY DIVERSIONS, SILT FENCE, STRAW ROLL, STONE CONSTRUCTION ENTRANCE AND OTHER CONTROL MEASURES AS NECESSARY ARE TO BE PLACED AS INDICATED ON THE DRAWINGS PRIOR TO OR DURNING THE FIRST STEP IN EXCAVATION.
9. WHERE CONSISTENT WITH JOB SAFETY REQUIREMENTS, ALL EXCAVATED MATERIAL IS TO BE PLACED ON THE UPHILL SIDE OF TRENCHES. NO MATERIAL IS TO BE PLACED IN STREAMBEDS. WHERE SOIL IS PLACED ON DOWNHILL SIDE OF TRENCHES, IT IS TO BE BACK–SLOPED TO DRAIN TOWARD THE TRENCH. WHEN NECESSARY TO DEWATER THE TRENCHES, THE PUMP DISCHARGE HOSE MUST OUTLET IN A STABILIZED AREA.

(H) GENERAL NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO CITY OF SEDONA STANDARDS, MAG STANDARDS, YAG STANDARDS, AZPDES STANDARDS AND SPECIFICATIONS, AND GENERALLY ACCEPTED CONSTRUCTION PRACTICE.
2. THESE PLANS REPRESENT A REASONABLE EFFORT TO IMPLEMENT THE MOST CURRENT AND BEST MANAGEMENT PRACTICES (BMPS) IN MITIGATING STORM WATER POLLUTION DURING CONSTRUCTION. THE EFFECTIVENESS OF THE MITIGATION MEASURES DEPICTED IN THESE PLANS DEPEND IN PART ON PROPER INSTALLATION, IMPLEMENTATION, MAINTENANCE AND REPAIR OF THE DEVICES SELECTED.
3. THE DETAILS SHOWN ON THE DETAIL SHEET ARE BY SHEPHARD – WESNITZER, INC. AND BY EROSION DRAW 4.0 (COPYRIGHT 2002 ©JOHN MCULLAH) UNDER A LICENSE AGREEMENT.
4. TOPOGRAPHIC AND BASE MAP INFORMATION (SHOWN FADED ON PLANS) PROVIDED BY COOPER AERIAL.
5. SILT FENCE AND SLOPE TREATMENT LOCATIONS SHOWN ON BASE MAP FILES ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR DETERMING EXACT FILL SLOPE LOCATIONS AND PROVIDING SILT FENCE FOR ALL FILL SLOPES.

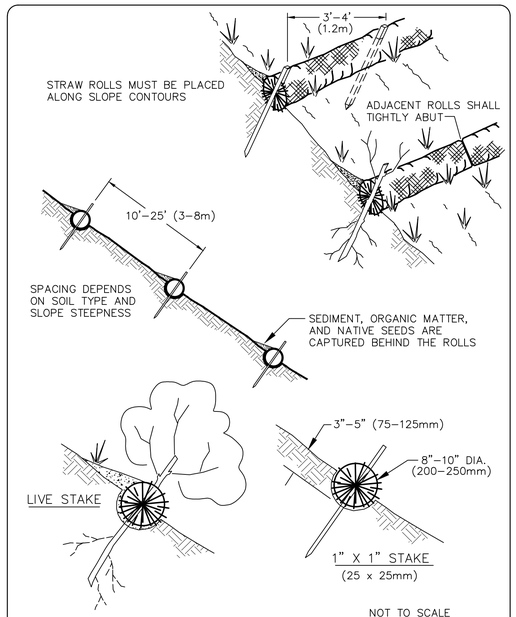
(I) SEEDING AND MULCHING

UNLESS OTHERWISE SPECIFIED IN THE CONSTRUCTION PLANS, ALL DISTURBED SLOPES SHALL BE MULCHED AND SEEDED PER THE FOLLOWING SEED SPECIFICATIONS:

SEED SHALL BE OF VARIETY SPECIFIED, AND SHALL BE APPLIED AT THE RATE SPECIFIED.

SPECIES	PURE LIVE SEED RATE/ACRE
SAND DRIPSEED (SPOROBOLUS CRYPTANDRUS)	2 LB
SIDEOATS GRAMA (BOUTELOUS CURTIPENDULA)	10 LB
CRESTED WHEATGRASS (AGROPYRON CRISTATUM)	10 LB

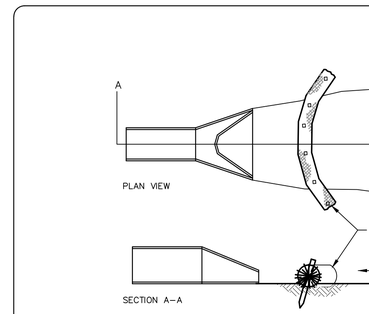
1. SEEDING OPERATIONS SHALL NOT BE PERFORMED WHEN WIND WOULD PREVENT UNIFORM APPLICATION OF MATERIALS OR WOULD CARRY SEEDING MATERIALS INTO AREAS NOT DESIGNATED TO BE SEEDED.
2. THE EQUIPMENT AND METHODS USED TO DISTRIBUTE SEEDING MATERIALS SHALL BE SUCH AS TO PROVIDE AN EVEN AND UNIFORM APPLICATION OF SEED, MULCH AND OR OTHER MATERIALS AT THE SPECIFIED RATES.
3. SEEDING OPERATIONS SHALL NOT BE PERFORMED ON UNDISTURBED SOIL OUTSIDE THE CLEARING AND GRUBBING LIMITS OF THE PROJECT OR ON STEEP ROCK CUTS.
4. IMMEDIATELY BEFORE SEEDING, THE SURFACE AREA SHALL BE RAKED OR OTHERWISE LOOSENED TO OBTAIN A SMOOTH FRIABLE SURFACE FREE OF EARTH CLODS, HUMPS AND DEPRESSIONS. LOOSE STONES HAVING A DIMENSION GREATER THAN ONE INCH AND DEBRIS BROUGHT TO THE SURFACE DURING CULTIVATION SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR IN A MANNER APPROVED BY THE ENGINEER.
5. THE AREA TO BE SEEDED SHALL BE ROUGHENED WITH GROOVES PARALLEL TO THE CONTOURS PRIOR TO SEEDING. A BULLDOZER OR CRAWLER TRACTOR SHALL BE DRIVEN UP AND DOWN THE SLOPE PARALLEL TO THE FALL LINE TO CREATE A TRACKWALKED SLOPE. THE SEEDS SHALL BE UNIFORMLY APPLIED IN A DIRECTION PARALLEL TO THE CONTOURS OF THE SLOPE. ALTERNATE SURFACE TREATMENT METHODS MAY BE APPROVED BY THE ENGINEER.
6. IMMEDIATELY AFTER SEEDING, THE AREA SHALL BE UNIFORMLY COVERED WITH SCREENED MANURE AT THE RATE OF ONE CUBIC YARD PER 1,000 SQUARE FEET AND THEN WATERED UNTIL THE GROUND IS WET TO A MINIMUM DEPTH OF TWO INCHES.
7. WATER SHALL BE FREE OF OIL, ACID, SALTS OR OTHER SUBSTANCES WHICH ARE HARMFUL TO PLANTS. THE SOURCE SHALL BE AS APPROVED BY THE ENGINEER PRIOR TO USE.
8. THE CONTRACTOR SHALL PROTECT SEEDED AREAS FROM DAMAGE BY TRAFFIC OR CONSTRUCTION EQUIPMENT. SURFACES WHICH ARE ERODED OR OTHERWISE DAMAGED FOLLOWING SEEDING AND PRIOR TO FINAL ACCEPTANCE SHALL BE REPAIRED BY REGRADING, RESEEDING AND REMULCHING AS DIRECTED BY THE ENGINEER.



NOT TO SCALE

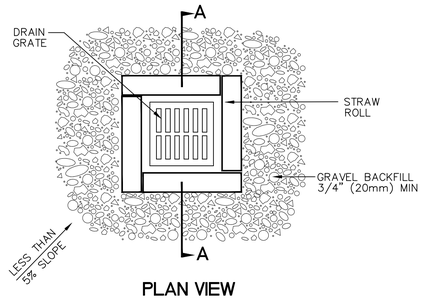
NOTE:
1. STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3"–5" (75–125mm) DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.

SC-17 STRAWROLLS

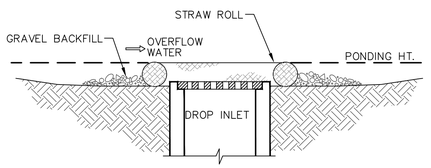


INLET SEDIMENT PROTECTION

SC-29 CULVERT SEDIMENT BARRIER (STRAW WATTLE)



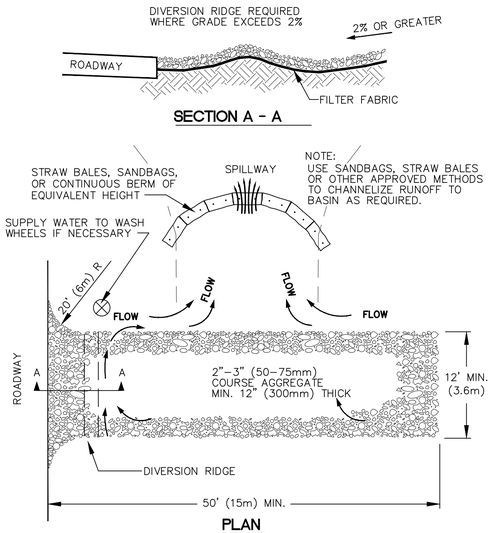
PLAN VIEW



SECTION A – A

NOTES:
1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS. (LESS THAN 5%)
2. EXCAVATE A BASIN OF SUFFICIENT SIZE ADJACENT TO THE DROP INLET.
3. THE TOP OF THE STRUCTURE (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BYPASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.

SC-31 DROP INLET SEDIMENT BARRIER (STRAW ROLL)



SECTION A – A

PLAN

NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT–OF–WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT–OF–WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

TC-1 GRAVEL CONSTRUCTION ENTRANCE/EXIT

CALL TWO WORKING DAYS BEFORE YOU DIG
1–800–STAKE–IT

REVISIONS			
NO.	DESCRIPTION	DATE	BY

Shephard Wesnitzer, Inc.
75 Kallof Place
Sedona, AZ 86336
928.282.1061
928.282.2058 fax
www.swiaz.com

JOB NO:	11311
DATE:	NOV 12
SCALE:	
DRAWN:	
DESIGN:	
CHECKED:	

POSSE GROUNDS PARK IMPROVEMENTS — SEDONA ARIZONA

STORM WATER POLLUTION PREVENTION PLAN

REGISTERED PROFESSIONAL ENGINEER — CERTIFICATE NO. 28658 — ARTHUR H. BECKWITH — 11/07/12 — Date Signed — ARIZONA, USA — Expires 3/31/2013

DRAWING NO. S2

SHT NO. 9 OF 9

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