CITY OF MESA - GENERAL NOTES

- ALL WORK AND MATERIALS SHALL CONFORM TO THE CURRENT UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION AS FURNISHED BY THE MARICOPA ASSOCIATION OF GOVERNMENTS AND AS AMENDED BY THE CITY OF MESA. ALL WORK AND MATERIALS NOT IN CONFORMANCE WITH THESE AMENDED SPECIFICATIONS AND DETAILS ARE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- SEPARATE RIGHT-OF-WAY PERMITS ARE REQUIRED FOR ALL PUBLIC UTILITIES, PUBLIC STREET IMPROVEMENTS, AND RIGHT-OF-WAY LANDSCAPING. FOR INFORMATION REGARDING AVAILABILITY AND COST OF RIGHT-OF-WAY PERMITS, CONTACT THE PERMIT SERVICES SECTION OF THE BUILDING SAFETY DIVISION AT (480) 644-4273 OR AT HTTP://WWW.MESAAZ.GOV/DEVSUSTAIN/CONSTRUCTIONPERMITS.ASPX. THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED UNLESS OTHERWISE NOTED. CONTRACTORS MUST HOLD THE APPROPRIATE CLASS OF LICENSE AND SHALL HAVE ON FILE WITH THE PERMIT SERVICES SECTION PROOF OF INSURANCE COVERAGE. PERMITS BECOME INVALID AND MUST BE UPDATED IF WORK HAS NOT BEGUN WITHIN NINETY (90) DAYS. PERMITS ALSO BECOME INVALID IF THE CONTRACTOR'S INSURANCE LAPSES OR IS VOIDED.
- TWENTY FOUR (24) HOURS PRIOR TO THE COMMENCEMENT OF ANY WORK, CONSTRUCTION OR INSTALLATIONS ASSOCIATED WITH THIS PERMIT, THE PERMITTEE SHALL NOTIFY CITY OF MESA ENGINEERING CONSTRUCTION SERVICES AT (480) 644-2253 OF INTENT TO BEGIN AND REQUEST/SCHEDULE PRELIMINARY FIELD REVIEW AT THE PROJECT SITE WITH THE CITY OF MESA ENGINEERING CONSTRUCTION INSPECTOR. FAILURE TO PROVIDE PROPER INSPECTION NOTIFICATION AS PRESCRIBED ABOVE, SHALL RESULT IN THIS PERMIT BECOMING INVALID AND WORK BEING STOPPED.
- CONTRACTOR'S SHALL COMPLY WITH THE REQUIREMENTS TO OBTAIN THE NECESSARY RIGHT-OF-WAY PERMITS AND SHALL COMPLY WITH THE RIGHT-OF-WAY PERMIT CONDITIONS AS FOUND ON THE BACK OF THE PERMIT FORM.
- THE CITY OF MESA PARKS & RECREATION DIVISION IS NOT REPRESENTED BY BLUE STAKE. WHEN THE CONTRACTOR EXCAVATES NEAR OR ADJACENT TO A CITY PARK, THE CONTRACTOR SHALL CONTACT THE PARKS & RECREATION ADMINISTRATION SECTION AT (480) 644-2354 TO REQUEST ASSISTANCE IN LOCATING ALL THEIR UNDERGROUND FACILITIES.
- THE CONTRACTOR SHALL OBTAIN AN EARTH-MOVING PERMIT FROM THE MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPARTMENT AND SHALL COMPLY WITH ITS REQUIREMENTS FOR DUST CONTROL.
- THE ENGINEER HEREBY CERTIFIES AS EVIDENCED BY A PROFESSIONAL SEAL & SIGNATURE, THAT ALL AFFECTED UTILITY COMPANIES BOTH PUBLIC AND PRIVATE HAVE BEEN CONTACTED AND ALL EXISTING AND/OR PROPOSED UTILITY LINES AND OTHER RELATED INFORMATION HAVE BEEN TRANSFERRED ONTO THESE PLANS. THE ENGINEER OR ARCHITECT ALSO HEREBY CERTIFIES THAT ALL EXISTING AND/OR PROPOSED PUBLIC RIGHT-OF-WAY OR EASEMENT HAVE BEEN CORRECTLY PLOTTED/SHOWN.
- THE ENGINEER, OR LAND SURVEYOR OF RECORD SHALL CERTIFY UPON COMPLETION OF CONSTRUCTION THAT ALL PUBLIC IMPROVEMENTS (WATER AND SEWER UTILITIES, STORM SEWER, CONCRETE, PAVING, STREET LIGHTS, ETC.) HAVE BEEN INSTALLED AT THE LOCATIONS AND ELEVATIONS SHOWN ON THE APPROVED PLANS. ANY CHANGES SHALL BE REFLECTED ON "AS-BUILT" DRAWINGS PROVIDED BY THE ENGINEER TO THE CITY'S ENGINEERING DEPARTMENT
- THE REGISTERED ENGINEER OR LAND SURVEYOR SHALL CERTIFY THAT THE MINIMUM HORIZONTAL AND VERTICAL SEPARATION BETWEEN UTILITIES WITHIN PUBLIC RIGHT-OFWAY OR EASEMENTS HAS BEEN MAINTAINED AS REQUIRED BY LAW OR POLICY.
- THE DEVELOPER SHALL PROVIDE ALL CONSTRUCTION STAKING FOR THE PROJECT.
- THE DEVELOPER OR THE ENGINEER IS RESPONSIBLE FOR ARRANGING FOR THE RELOCATION OR REMOVAL OF ALL UTILITIES OR FACILITIES THAT ARE IN CONFLICT WITH THE PROPOSED PUBLIC IMPROVEMENTS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE RELOCATION OF ALL UTILITIES, POWER POLES, IRRIGATION DRY-UPS, RESETS REMOVALS BY OTHERS, ETC.
- 12. THE CONTRACTORS SHALL LOCATE ALL UTILITIES PRIOR TO EXCAVATION AND AVOID DAMAGE TO SAME. CALL (602) 263-1100 FOR BLUE STAKE TWO WORKING DAYS PRIOR TO DIGGING. CALL SALT RIVER PROJECT FOR POLE BRACING, ELECTRIC SERVICE OR CONSTRUCTION SCHEDULING AT (602) 273-8888.
- 3. WHEN GAS MAINS AND/OR SERVICES ARE EXPOSED, CONTACT THE CITY OF MESA AT (480) 644-2261 FOR INSPECTION OF THE EXPOSED PIPE AND COATING PRIOR TO BACKFILLING OF THE TRENCH.
- 4. CONTRACTORS SHALL COMPLY WITH THE PROVISIONS FOR TRAFFIC CONTROL AND BARRICADING PER THE CURRENT CITY OF MESA TRAFFIC BARRICADE MANUAL.
- 15. IF A FIRE HYDRANT IS NEEDED TO OBTAIN CONSTRUCTION WATER, THE CONTRACTOR SHALL OBTAIN A FIRE HYDRANT METER FROM PERMIT SERVICES AND PAY ALL APPLICABLE FEES AND CHARGES.
- 6. IF DURING THE CONSTRUCTION OF A PUBLIC FACILITY, THE CONTRACTOR FAILS TO OR IS UNABLE TO COMPLY WITH A REQUEST OF THE ENGINEERING CONSTRUCTION INSPECTOR, AND IT IS NECESSARY FOR CITY FORCES TO DO WORK THAT IS NORMALLY THE CONTRACTOR'S RESPONSIBILITY, THE CITY SHALL BE JUSTIFIED IN BILLING THE CONTRACTOR. EACH INCIDENT REQUIRING WORK BY CITY FORCES SHALL BE COVERED BY A SEPARATE BILLING AT THE CURRENT APPLICABLE RATES.
- 7. THE CONTRACTOR IS ADVISED THAT DAMAGE TO PUBLIC SERVICES OR SYSTEMS AS A RESULT OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AND INSPECTED BY THE CITY INSPECTOR. UNLESS OTHERWISE APPROVED BY THE CITY, ALL REPAIRS SHALL BE DONE WITHIN 24 HOURS. THE CONTRACTOR IS ADVISED THAT ANY COSTS RELATED TO REPAIR OR REPLACEMENT OF DAMAGED PUBLIC SERVICES AND SYSTEMS AS A RESULT OF CONTRACTOR'S ACTIVITIES SHALL BE BORNE BY THE CONTRACTOR.

CITY OF MESA - MISCELLANEOUS NOTES

- THE FOLLOWING NOTE(S) ARE REQUIRED WHENEVER THE PRIVATE LAND DEVELOPMENT PROJECT CONSTRUCTS, INSTALLS OR MODIFIES PUBLIC STREET IMPROVEMENTS. THESE NOTES ARE IN ADDITION TO THE GENERAL REQUIREMENT NOTES.
- THE DEVELOPER AND THE CONTRACTOR ARE REQUIRED TO COORDINATE THE PLACEMENT OR INSTALLATION OF DRIVEWAYS IN ORDER TO AVOID CONFLICT WITH UTILITY SERVICES.
- ALL FRAMES, COVERS, VALVE BOXES, MANHOLES, ETC., SHALL BE INSTALLED TO FINISH GRADE OR SHALL BE ADJUSTED TO FINISH GRADE AFTER PLACING OF ASPHALTIC SURFACE COURSE BY THE CONTRACTOR PER M.A.G. STANDARD DETAIL 270 AND 422.
- THE CONTRACTOR SHALL ADJUST ALL FRAMES, COVERS, VALVE BOXES, MANHOLES, ETC. THAT ARE LOCATED WITHIN THE PARKWAY AREA AFTER FINAL GRADING AND INSTALLATION OF LANDSCAPING.
- ALL LANDSCAPING IMPROVEMENTS, INCLUDING IRRIGATION SYSTEMS WITHIN THE PUBLIC RIGHT-OF-WAY OR RETENTION BASINS THAT ARE TO BE MAINTAINED BY THE CITY OF MESA, SHALL BE IN ACCORDANCE WITH THE LANDSCAPING AND IRRIGATION STANDARDS BOOKLET.
- THE STREET PAVING PERMITTEE/CONTRACTOR IS HEREBY NOTIFIED THAT IN THE EVENT THAT ACCEPTANCE OF THE PUBLIC STREET PAVING IS DELAYED: SIX MONTHS OR MORE AFTER THE PAVEMENT WAS INSTALLED, THE PERMITTEE/CONTRACTOR SHALL APPLY A SEAL COAT TO THE PAVEMENT. TYPE OF MATERIAL AND RATE OF APPLICATION WILL BE DIRECTED BY THE CITY OF MESA ENGINEERING DEPARTMENT - FIELD SUPERVISING ENGINEER.
- A STANDARD RESIDENTIAL DRIVEWAY APPROACH SHALL BE CONSTRUCTED TO A MAXIMUM WIDTH OF 30 FEET UNLESS SPECIAL APPROVAL HAS BEEN OBTAINED.

ENGINEERS NOTES

- CONTRACTOR SHALL NOTIFY WESTWOOD PROFESSIONAL SERVICES OF DISCREPANCIES BETWEEN THE CIVIL PLANS AND SITE CONDITIONS, A MI HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION IN THE AFFECT TO DO SO SHALL RESULT IN ANY DISCREPANCIES BEING THE RESPONSIB CONTRACTOR.
- 2. DURING CONSTRUCTION, THE CONTRACTOR WILL BE RESPONSIBLE FOR EARTH SPILLAGE, RUNOFF AND CONSTRUCTION WATER AND SHALL PRC PROPERTY AND EXISTING STRUCTURES FROM SUCH.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CARE, MAINTENAN REPLACEMENT OF EXISTING IMPROVEMENTS AND UTILITIES IN THE WO ADJACENT PROPERTIES WHICH HAVE BEEN REMOVED OR DAMAGED D OF CONSTRUCTION. ALL REPAIR, REPLACEMENT OR CLEANUP SHALL BE SATISFACTION OF AND AT NO ADDITIONAL EXPENSE TO THE UTILITY CO OWNER.
- THE CONTRACTOR SHALL GIVE FORTY-EIGHT (48) HOURS NOTICE WHEN REQUIRE THE SERVICES OF THE ENGINEER OR ANY OTHER PERSON PROF FOR SUCH PURPOSE FOR LAYING OUT OR TESTING ANY PORTION THE W
- THE CONTRACTOR SHALL PRESERVE ALL STAKES SET FOR THE LINES, LEV MEASUREMENTS OF THE WORK IN THEIR PROPER PLACES UNTIL AUTHO THEM BY THE ENGINEER. ANY EXPENSE INCURRED IN REPLACING ANY S CONTRACTOR OR HIS SUBORDINATES MAY HAVE FAILED TO PRESERVE TO THE CONTRACTOR.
- ESTIMATED QUANTITIES SHOWN ARE FOR BONDING & PERMIT PURPOSE CONTRACTOR TO MAKE HIS OWN DETERMINATION OF QUANTITIES.
- 7. EXISTING UNDER GROUND UTILITIES SHOWN ARE PER UTILITY COMPANY CONTRACTOR TO FIELD VERIFY LOCATION/ELEVATION OF ALL UTILITIES BEGINNING CONSTRUCTION.

CITY OF MESA - STORMWATER DRAINAGE

- THE ENGINEER, OR LAND SURVEYOR SHALL CERTIFY THAT THE REQUIRE RETENTION HAS BEEN PROVIDED. THE CERTIFICATION SHALL ALSO INDI VOLUME PROVIDED. SUCH CERTIFICATION SHALL BE PROVIDED TO BUIL DIVISION - BUILDING INSPECTIONS WHEN THE RETENTION AREA IS TO F PROPERTY AND TO ENGINEERING CONSTRUCTION SERVICES WHEN THE IS TO BECOME CITY OF MESA PROPERTY.
- ALL DRYWELLS SHOWN ON THIS PROJECT SHALL BE MAINTAINED BY TH ARE TO BE REPLACED BY THE OWNERS WHEN THEY CEASE TO DRAIN WA PERIOD. REGULAR MAINTENANCE OF THE DRYWELL-SILTING CHAMBER I ACHIEVE THE BEST OPERATION OF THE DRYWELL. IN ACCORDANCE WIT STATUTES, DRYWELLS ARE REQUIRED TO BE REGISTERED WITH THE ARIZE OF ENVIRONMENTAL QUALITY (A.D.E.Q.) IT IS THE OWNER'S RESPONSIB ALL DRYWELLS. AN AQUIFER PROTECTION PERMIT MAY BE REQUIRED BY DRYWELLS DEEMED TO BE HAZARDOUS TO GROUNDWATER.

CITY OF MESA - MISCELLANEOUS NOTES (CONT.)

- VERTICAL CONSTRUCTION WITH COMBUSTIBLE MATERIALS SHALL NOT BEGIN PRIOR TO THE ACCEPTANCE OF FIRE ACCESS ROAD AND FIRE HYDRANTS, 2006 I.F.C. SECTION 501.4
- 9. STRUCTURE CONSTRUCTION, ALTERATION OR DEMOLITION SHALL COMPLY WITH REQUIREMENTS OF I.F.C. CHAPTER 14 AND N.F.P.A. 241, 2006 I.F.C. SECTION 1401.1
- 10. CONTRACTORS SHALL VERIFY ALL INVERT ELEVATIONS BEFORE PROCEEDING WITH THE BALANCE OF THE UTILITY TRENCHING.
- 11. ALL MANHOLES PER M.A.G. DETAILS MUST NECK DOWN TO USE THE STANDARD 30INCH FRAME AND COVER. STEPS SHALL NOT BE INSTALLED WITHIN THE MANHOLE.

PRELIMINARY GRADING AND DRAINAGE PLAN **ASPIRE AT SUN VALLEY** BEING A PART OF THE NORTH HALF OF SECTION 19, TOWNSHIP 1 NORTH, RANGE 7 EAST, OF THE GILA & SALT RIVER BASE & MERIDIAN, MARICOPA COUNTY, ARIZONA

	SHEET INDEX			
DF ANY MINIMUM OF 48 CTED AREA. FAILURE SIBILITY OF THE	COVER SHEET C-1 DETAIL SHEET C-2 PRELIMINARY GRADING AND DRAINAGE C-3			
OR THE CONTROL OF ROTECT ADJACENT				
NCE, REPAIR OR ORK AREA AND ON		SITE DATA		
DURING THE COURSE BE DONE TO THE	RETENTION CALCULATIONS	GROSS = 143,879 SQ. FT. OR 3.30 ACRES MORE OR LESS		
COMPANY AND	VOLUME REQUIRED - 100 YEAR 2 HOUR STORM EVENT	ALLOWABLE DU/AC=15 DU/ACNUMBER OF UNITS=49 UNITS TOTALZONING DISTRICT=RM-2		
EN HE SHALL	$V_{R} = C \times P/12 \times A$			
OPERLY AUTHORIZED WORK.				
Evels or Horized to remove Y stakes which the Ye shall be charged	V_R =VOLUME REQUIRED (CU.FT.)P=2.16 (100YR, 2HR FROM NOAA ATLAS 14)C=RUNOFF COEFFICIENT (0.85)A=AREA IN SQUARE FEET (NET)	BENCHMARK		
	A = AREA IN SQUARE FEET (NET) VOLUME REQUIRED: V_R = 2.16/12 x143,879 SQ.FT. x 0.85	CITY OF MESA, BRASS TAG ON TOP OF CURB LOCATED ON THE SOUTHEAST CORNER OF EAST UNIVERSITY DRIVE AND NORTH SOSSAMAN ROAD.		
DSES ONLY.	$V_R = 22,013 \text{ C.F.}$	ELEVATION: 1470.12 NAVD88		
ANY RECORDS. ES PRIOR TO	VOLUME PROVIDED: SURFACE RETENTION: RETENTION BASINS: PROVIDED = 5,487 C.F.	FLOOD PLAIN		
	UNDERGROUND RETENTION:	THE SUBJECT PROPERTY IS LOCATED WITHIN SHADED ZONE "X" DEFINED AS "AREAS OF 0.2%		
RED STORM WATER DICATE THE ACTUAL JILDING SAFETY	STORMTECH STORAGE TANKS - 450 LF = 16,735 CF TOTAL VOLUME PROVIDED: 22,222 C.F.	ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL FLOOD CHANCE WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD" PER FIRM MAP NO. 04013C2295L DATED OCTOBER 16, 2013.		
D REMAIN PRIVATE HE RETENTION AREA		ZONING		
		THE PROPOSED ZONING IS RM-2 PAD PER CITY OF MESA PLANNING DIVISION.		
THE OWNERS AND WATER IN A 36HOUR R IS REQUIRED TO	RETENTION VOLUME TABLE			
ith Arizona revised Rizona department Ibility to register By A.D.E.Q. For	RETENTION TYPE VOLUME REQUIRED VOLUME PROVIDED AS-BUILT VOLUME (CF) (CF) (CF) (CF)			
	BASIN 1 4,452			

1035

16,735

22,222

22,013

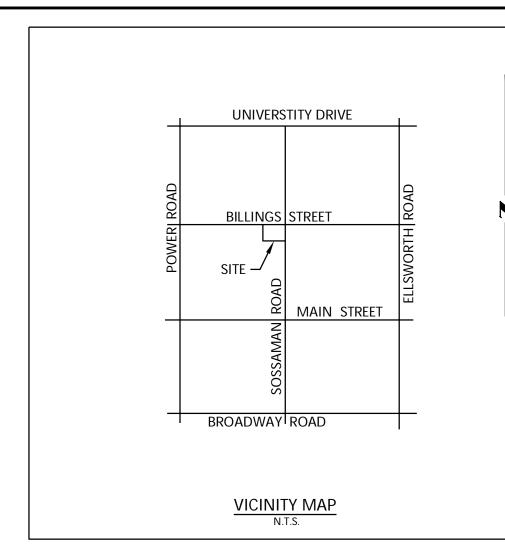
22,013

BASIN 2

STORMTECH

STORAGE TANK

TOTAL



ENGINEER

WESTWOOD PROFESSIONAL SERVICES 6909 EAST GREENWAY PARKWAY, SUITE 250 SCOTTSDALE, AZ 85254 TELE: 480-747-6558 CONTACT: DAVID BOHN, P.E EMAIL: DAVID.BOHN@WESTWOODPS.COM

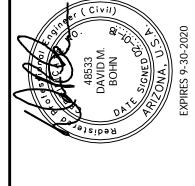
—— 12"-DIP-W —— —

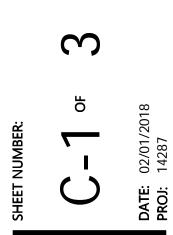
- 11₈₀ _____

LEGEND

	PROPERTY LINE	D	UNDERGROUND STORM DRAIN
	RIGHT OF WAY LINE	C.O.	
	SECTION LINE	•	DRAIN CLEAN-OUT
	CENTER LINE	Т	UNDERGROUND TELEPHONE
	EASEMENT LINE	T.C.B. ☑	TELEPHONE CABINET
	HIGH WATER LINE	T.R.	TELEPHONE RISER
	CONTOUR LINE	W	UNDERGROUND WATER
	UNDERGROUND UTILITY	W.M.	WATER METER
	SIGN	×.v.	
OHCTV	OVERHEAD CABLE TV	⊗ F.H.	WATER VALVE
E	UNDERGROUND ELECTRIC	Ð	FIRE HYDRANT
OHE		C.O.M.	CITY OF MESA
D.G.	OVERHEAD ELECTRIC	(R&M)	RECORD & MEASURED
\leftarrow	DOWN GUY	FND.	FOUND
Р.Р. - О-	POWER POLE	R.O.W.	RIGHT OF WAY
S.L.J.B.	POWER POLE W/LIGHT	R.O.W.	NOTI OF WAT
<u> </u>	STREET LIGHT W/ MAST ARM	M.C.R.	MARICOPA COUNTY RECORDER OFFICE
G	UNDERGROUND GAS	A.P.N.	
G.MRK.	GAS MARKER	то	
S	UNDERGROUND SEWER	TC	TOP CURB ELEVATION
S	SEWER MANHOLE	G	GUTTER ELEVATION
Ŭ		Р	PAVEMENT ELEVATION

INITIAL ISSUE:			REV:	REV: A	D
DESIGNED:	CHECKED: DB DRAWN:	FIELD CREW:	FIELD WORK DATE:	SCALE: 1" = HORIZONTAL	SCALE: 1" = VERTICAL
	Westwood	Phone (480) 747-6558 6909 East Greenway Parkway, Suite 250	Fax (480) 376-8025 Scottsdale, AZ 85254 westwoodps.com	Westwood Professional Services, Inc.	
COVER SHEFT	ASPIRE AT SLIN VALLEY			MESA, AZ	



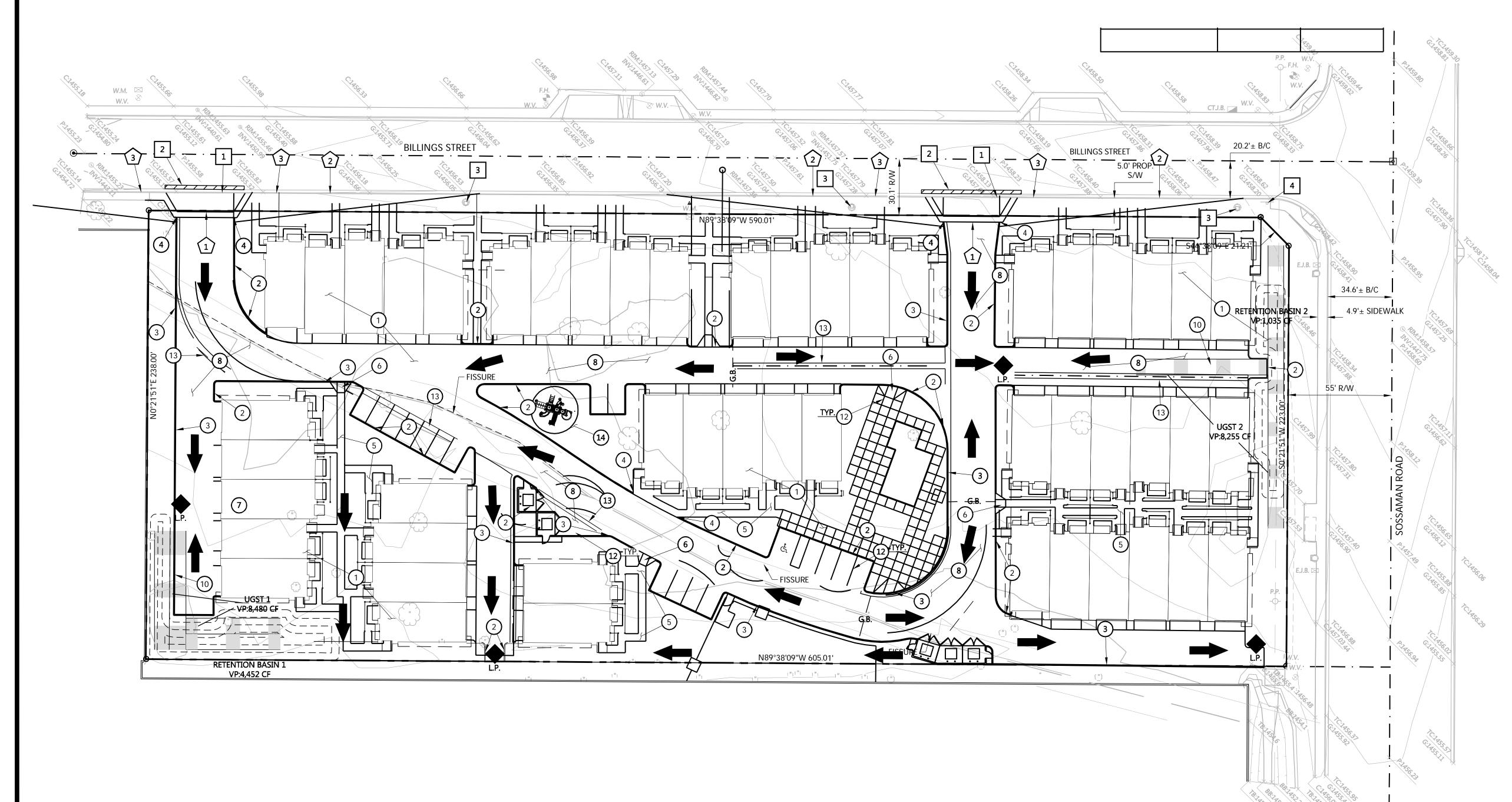


Contact Arizona 811 at least two full working days before you begin excavation					
AR ZONASM.					
Call 811 or click Arizona811.com					

C CONCRETE ELEVATION

NG NATURAL GROUND

INV INVERT



CURB TERMINATION

REMOVALS & RELOCATIONS

- **1** SAWCUT & REMOVE EXISTING CONCRETE SIDEWALK / CONCRETE CURB
- **2** SAWCUT & REMOVE EXISTING ASPHALT PAVEMENT, 2' WIDE MIN.
- **3** REMOVE AND RELOCATE EXISTING STREET LIGHT AND BASES.
- 4 REMOVE AND RELOCATE STREET SIGN AND BASES.

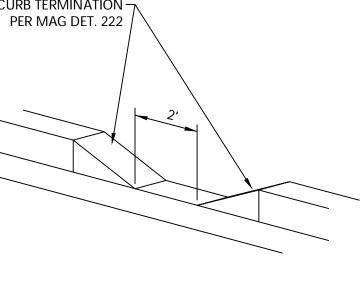
OFF-SITE CONSTRUCTION NOTES

- (1) CONSTRUCT 30' WIDE DRIVEWAY PER C.O.M. DETAIL M-42
- (2) CONSTRUCT CONCRETE SIDEWALK PER M.A.G. STD. DTL. 230.
- (3) EXISTING CURB TO REMAIN. PROTECT FROM DAMAGE.

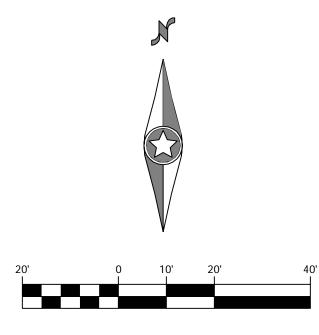
MATCH EXISTING

ON-SITE CONSTRUCTION NOTES

- CLEAR SITE; REMOVE VEGETATION, DEBRIS AND EXISTING IMPROVEMENTS WITHIN LIMITS OF NEW CONSTRUCTION.
- 2 CONSTRUCT SINGLE CURB PER M.A.G. STD. DTL. 222, TYPE `A`
- 3 CONSTRUCT CURB AND GUTTER PER M.A.G. STD. DTL. 220-1 , TYPE `A`
- (4) CONSTRUCT CURB TERMINATION PER M.A.G. STD. DTL. 222.
- 5 CONSTRUCT CONCRETE SIDEWALK PER M.A.G. STD. DTL. 230. SEE ARCHITECTURAL PLANS FOR FINISH AND SCORING DETAILS.
- 6 CONSTRUCT SIDEWALK RAMP.
- (7) INSTALL 2' CURB OPENING PER DETAIL ON THIS SHEET.
- 8 INSTALL ASPHALT PAVEMENT SECTION: 3" A.C. ON 6" A.B.C. OR PER SOILS REPORT WHICHEVER IS GREATER
- INSTALL 8" ADS N-12 MEGA GREEN WT IB STORM DRAIN PIPE (ASTM F2487 PIPE) OR EQUIVALENT. LENGTH PER PLAN WITH 1% MINIMUM SLOPE TOWARD THE UNDERGROUND RETENTION. LENGTH PER PLAN.
- 10 INSTALL STORMTECH SYSTEM PER DETAILS ON SHEET 3.
- (11) CONSTRUCT CATCH BASIN PER M.A.G. DETAIL 535, TYPE F.
- (12) PAINT STRIPING. SEE ARCHITECTURAL PLANS FOR DETAILS.
- CONSTRUCT CONCRETE VALLEY GUTTER PER M.A.G. STD. DTL. 240, MODIFIED TO BE 3' WIDE.
- (14) ARCHITECTURAL FEATURE. SEE ARCHITECTURAL PLANS FOR DETAILS.

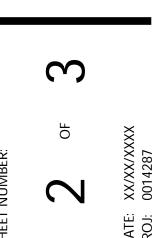


CURB OPENING DETAIL

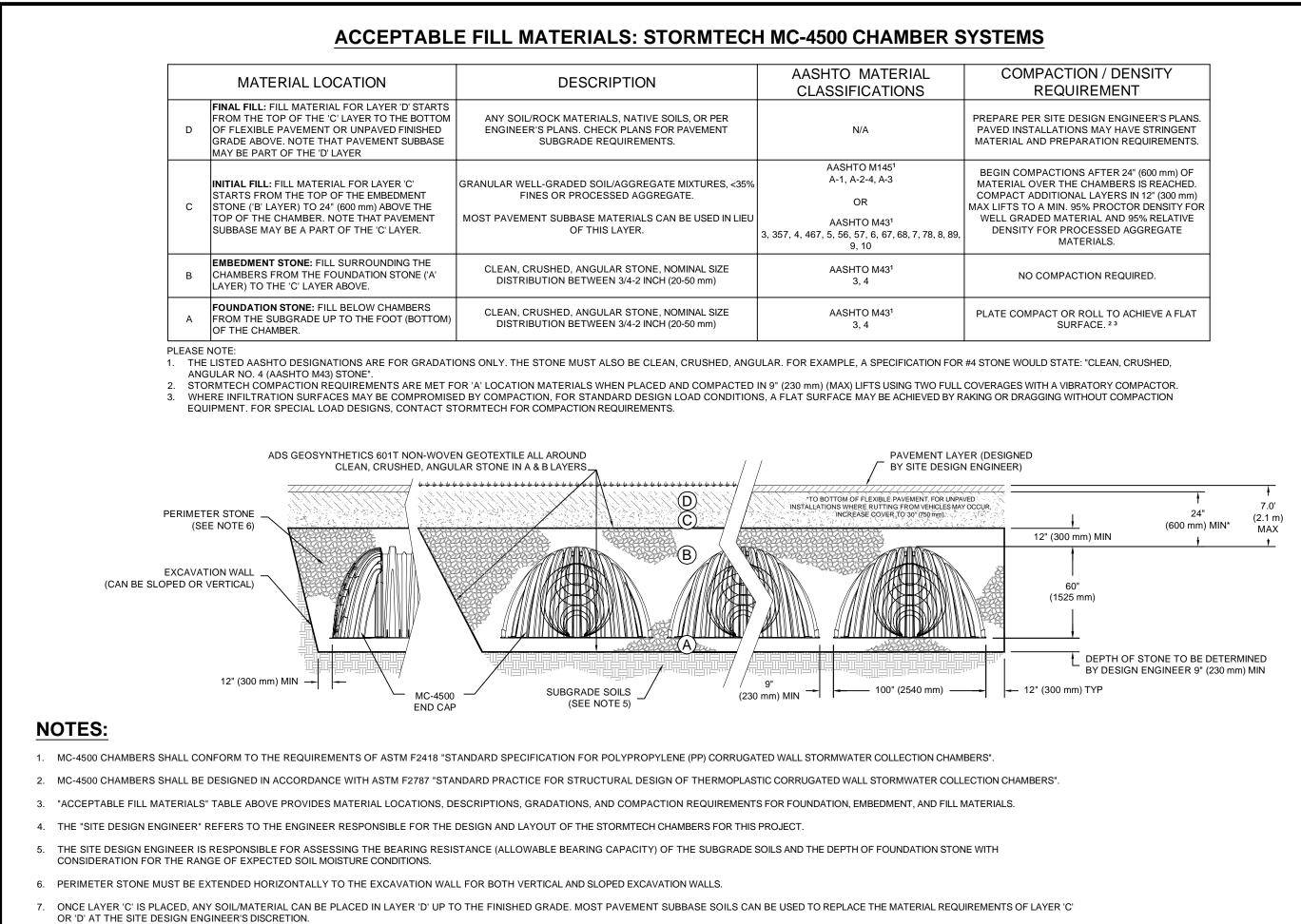


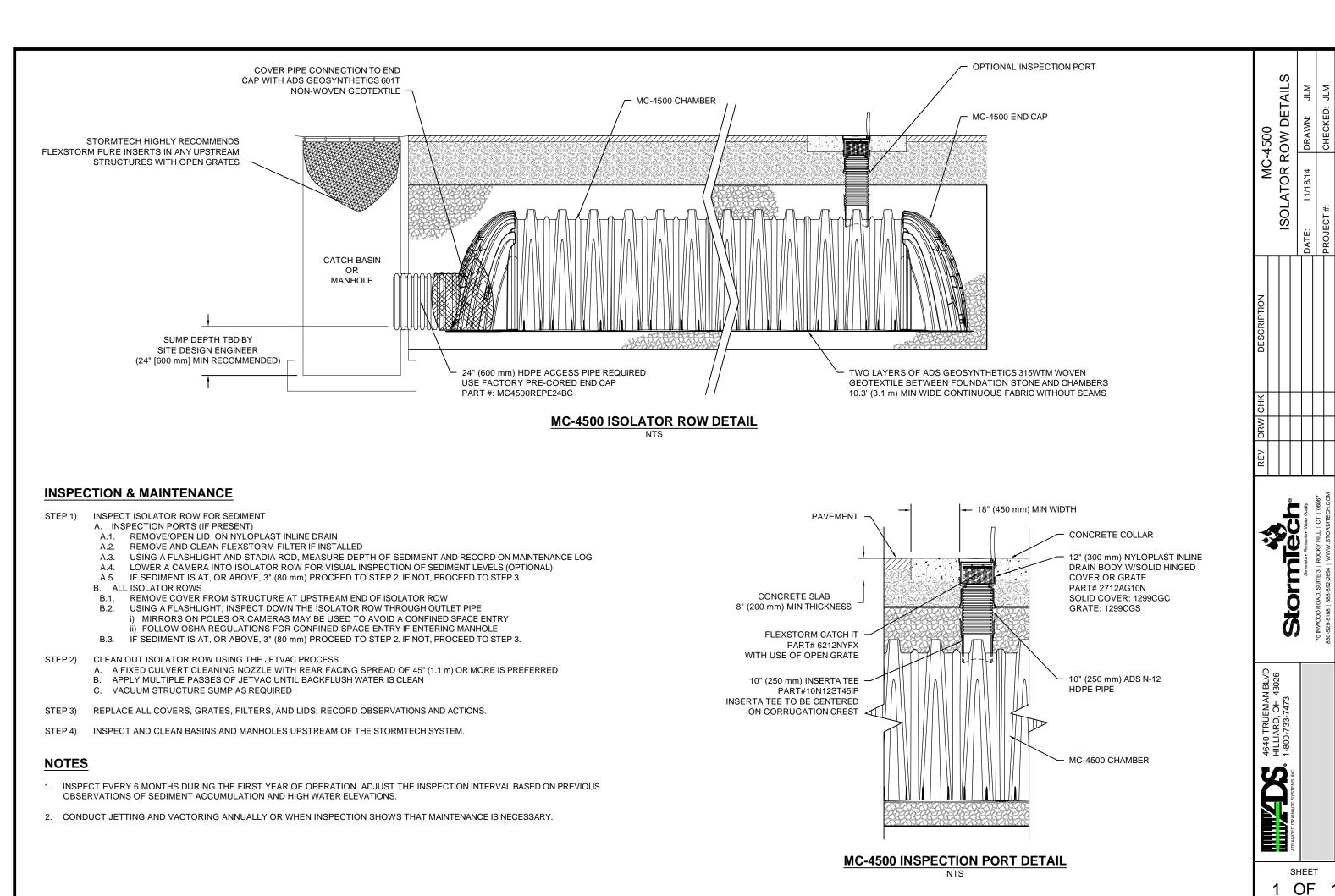
1" = 20' ft.



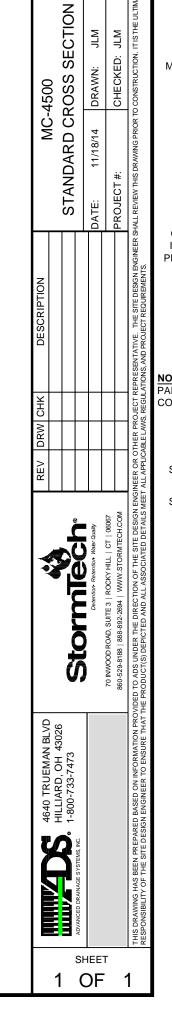








INSERTA TEE DETAIL

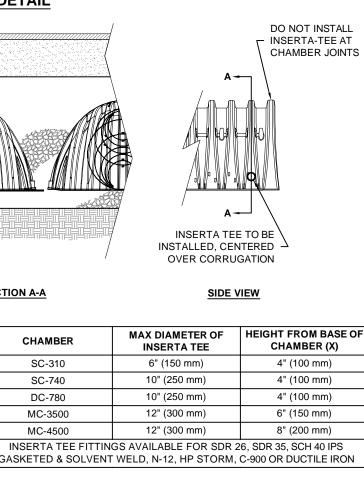


ואפ דאוטא וט כטאאואטכווטא. וו וא ואב ט	CONVEYANCE PIPE MATERIAL MAY VARY (PVC, HDPE, ETC.)	
IIS UKAW	INSERTA TEE	
IVE. THE SHE DESIGN ENGINEER SHALL REVIEW IN ROJECT REQUIREMENTS.	PLACE ADS GEOSYNTHETICS 315 WOVE GEOTEXTILE (CENTERED ON INSERTA-TE INLET) OVER BEDDING STONE FOR SCOU PROTECTION AT SIDE INLET CONNECTION: GEOTEXTILE MUST EXTEND 6" (150 mn PAST CHAMBER FOO	E
HEK PROJECT KEPRESENTAT BLE LAWS, REGULATIONS, AND P	NOTE: PART NUMBERS WILL VARY BASED ON INLE CONTACT STORMTECH FOR MORE INFORM	
APPLICAE		
enginee 16ET ALL	VALLEY - WEB STIFFENING RIB - UPPER J	OINT
JNDER THE DIRECTION OF THE STIE DESIGN S) DEPICTED AND ALL ASSOCIATED DETAILS N	FOOT LOWER JOINT CORR.	SATION
IO ADS (100.0" (2540
ENGINEER TO ENSURE THAT THE P	48.3" (1227 mm) INSTALLED	
G HAS BEEN PREPARED BASED ON INFORMATION PROVIDED ITY OF THE SITE DESIGN ENGINEER TO ENSURE THAT THE PI	(1227 mm)	100.0" X 60.0" X 48 106.5 CUBIC FEET 162.6 CUBIC FEET 130.0 lbs.
THIS URAWING PAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS ONDER THE DIRECTION OF THE SITE DESIGN ENDINERS SHALL REVIEW THIS DRAWING PRIOR TO CONSTRUCTION. IT IS THE OL RESPONSIBILITY OF THE SITE DESIGN ENGINEER TO ENSURE THAT THE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET LAPPLCABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.	(1227 mm) INSTALLED	100.0" X 60.0" X 48 106.5 CUBIC FEET 162.6 CUBIC FEET 130.0 lbs. 90.2" X 59.4" X 30.7 35.7 CUBIC FEET 108.7 CUBIC FEET 135.0 lbs.

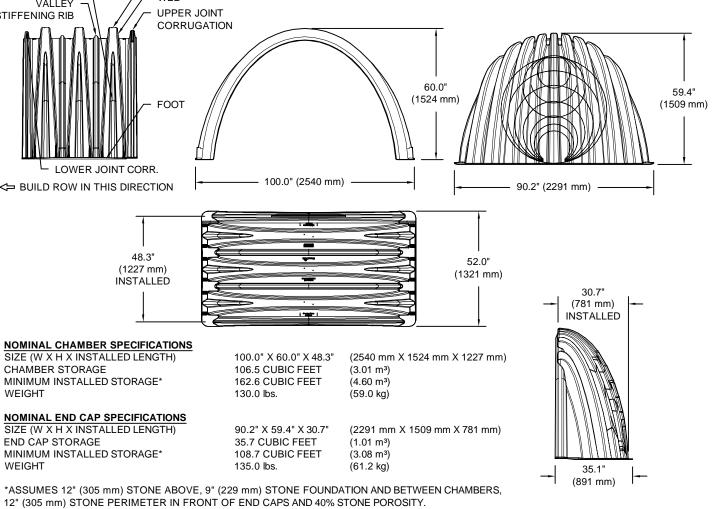
PART #	STUB	B	С	
MC4500REPE06T	6" (150 mm)	42.54" (1.081 m)		
MC4500REPE06B	0 (150 1111)		0.86" (22 mm)	
MC4500REPE08T	8" (200 mm)	40.50" (1.029 m)		
MC4500REPE08B	8 (200 11111)		1.01" (26 mm)	
MC4500REPE10T	10" (250 mm)	38.37" (975 mm)		
MC4500REPE10B	10 (250 mm)		1.33" (34 mm)	
MC4500REPE12T	12" (300 mm)	35.69" (907 mm)		
MC4500REPE12B	12 (300 mm)		1.55" (39 mm)	
MC4500REPE15T	15" (375 mm)	32.72" (831 mm)		
MC4500REPE15B	15 (375 mm)		1.70" (43 mm)	
MC4500REPE18TC	18" (450 mm)	29.36" (746 mm)		
MC4500REPE18BC	16 (450 mm)		1.97" (50 mm)	
MC4500REPE24TC	24" (600 mm)	23.05" (585 mm)		
MC4500REPE24BC	24" (600 mm)		2.26" (57 mm)	
MC4500REPE30BC	30" (750 mm)		2.95" (75 mm)	
MC4500REPE36BC	36" (900 mm)		3.25" (83 mm)	
MC4500REPE42BC	42" (1050 mm)		3.55" (90 mm)	

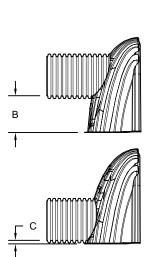
CUSTOM PRECORED INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-4500 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm) THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHTEST POSSIBLE FOR THE PIPE SIZE.





INICAL SPECIFICATION





Cont: workin	act Arizona 811 at least two full ng days before you begin excavation
Call	811 or click Arizona811.com

	INITIAL ISSUE:	REV:		REV: .		REV:		REV:	
	DESIGNED: DB	CHECKED: DB		DRAWN:	FIELD CREW:	FIFI D WORK DATE:		SCALE: 1" = HORIZONTAL	SCALE: 1" = N/A VERTICAL
					Phone (480) 747-6558 6909 East Greenway Parkway, Suite 250	Fax (480) 376-8025 Scottsdale, AZ 85254		Westwood Professional Services, Inc.	
	PRFIIMINARY GRADING & DRAINAGF PLAN I		ACDIDE AT CLINI VALLEV					MESA, AZ	
1440	(0) (0) (0) (0)	A States		-		to the second se	AD SIGNED P.	CONA, U.S.	EXPIRES 9-30-2020

 \sim \mathbf{C}

