

**DRAINAGE REPORT**

PEYTON ESTATES UNIT EIGHT LIES ON UNDEVELOPED DESERT LAND COVERED IN DESERT VEGETATION. AN EXISTING RIDGE NEAR THE NORTH OF THE SUBDIVISION CAUSES THE TERRAIN TO SLOPE FROM NORTH TO SOUTHWEST AND WEST TO EAST TO TWO EXISTING LOW POINTS AT THE EAST AND SOUTHWEST OF THE SUBDIVISION. ALL STORM WATER RUN-OFF FROM RESIDENTIAL LOTS, LOCAL STREETS, AND A PARK WILL BE CONVEYED BY SURFACE FLOW DIRECTED TO A SERIES OF NEW DRAINAGE INLET STRUCTURES. THE RUNOFF IS COLLECTED AND CONVEYED BY MEANS OF NEW STORM SEWER SYSTEMS TO DISCHARGE INTO TWO NEW RETENTION BASINS. THE TWO NEW RETENTION BASINS, POND 1 AND POND 2, LIE WITHIN THE SUBDIVISION BOUNDARIES AND ARE DESIGNED WITH SUFFICIENT CAPACITY TO RETAIN A 100-YEAR STORM RAINFALL.

THE PROPOSED DEVELOPMENT IS DIVIDED INTO SEVERAL DRAINAGE AREAS. DRAINAGE AREAS 1 THRU 7 AND 15, INCLUDE RESIDENTIAL LOTS, INTERIOR STREETS, A PROPOSED PARK, AND A PORTION OF PEYTON DRIVE, THAT WILL DISCHARGE INTO RETENTION BASIN POND 1. DRAINAGE AREAS 8 THRU 11 INCLUDE RESIDENTIAL LOTS AND INTERIOR STREETS THAT WILL DISCHARGE INTO RETENTION BASIN POND 2.

DRAINAGE AREA 12 AND 13 IS IN THE EASTERLY PORTION OF THE DEVELOPMENT AND CONTAINS DEVELOPED STORM WATER RUN-OFF FROM RESIDENTIAL LOTS AND INTERIOR STREETS. THE DEVELOPED FLOW FROM DRAINAGE AREA 12 AND 13 WILL BE CONVEYED BY SURFACE FLOW IN AN EASTERLY DIRECTION THROUGH THE ESTATES AT EMERALD PARK UNIT FOUR AND DISCHARGE INTO AN EXISTING RETENTION BASIN IN THE ESTATES AT EMERALD PARK UNIT TWO. DRAINAGE AREA 14 WILL CONVEY WATER FROM PEYTON DRIVE THROUGH SURFACE FLOW IN A NORTHERLY DIRECTION THROUGH PEYTON ESTATES UNIT ONE AND DISCHARGE INTO AN EXISTING RETENTION BASIN IN PEYTON ESTATES UNIT ONE.

THE ABOVE MEASURES PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS, AVOIDS CONCENTRATING RUNOFF ONTO OTHER LOTS, AND COORDINATES INDIVIDUAL LOT DRAINAGE WITH THE GENERAL STORM DRAINAGE PATTERN FOR THE AREA. THE DRAINAGE MAP AT THE BOTTOM ILLUSTRATES FLOW PATTERNS AND DRAINAGE INFRASTRUCTURE LOCATION.

IMPROVEMENT PLANS FOR PEYTON ESTATES UNIT EIGHT ARE REFERENCED IN CASE ID# 19-035 AT THE EL PASO COUNTY PUBLIC WORKS DEPARTMENT.

**CERTIFICATION**

UNDER LOCAL GOVT. CODE 232.021(4) "FLOODPLAIN" MEANS ANY AREA IN THE 100-YEAR FLOODPLAIN THAT IS SUSCEPTIBLE TO BEING INUNDATED BY WATER FROM ANY SOURCE OR THAT IS IDENTIFIED BY FEMA UNDER THE NATIONAL FLOOD INSURANCE ACT. BY MY SIGNATURE BELOW, I CERTIFY THAT PEYTON ESTATES UNIT EIGHT SUBDIVISION LIES WITHIN A FLOOD ZONE DESIGNATION OF "X" (EXPLAINED AS AREAS OF 100-YEAR FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE, AND AREAS PROTECTED BY LEVEES FROM THE 100-YEAR FLOOD) AS DESIGNATED IN PANEL 480212 0237B DATED SEPTEMBER 4, 1991 OF THE FLOOD INSURANCE RATE MAPS, EL PASO COUNTY, TEXAS.

**DRAINAGE IMPROVEMENTS**

I CERTIFY THAT THE ESTIMATED COST TO INSTALL UN CONSTRUCTED DRAINAGE IMPROVEMENTS DESCRIBED ABOVE ARE AS FOLLO. THE DRAINAGE IMPROVEMENTS WILL BE CONSTRUCTED IN ACCORDANCE WITH THE PASEO DEL ESTE MUNICIPAL UTILITY DISTRICT NO. 1 (PDEMUD1) SPECIFICATIONS AT AN ESTIMATED COST OF \$710,934 FOR THE SUBDIVISION.

JOSE HERNANDEZ, P.E.  
H2O TERRA  
TEXAS REGISTERED  
ENGINEERING FIRM F-2103



**REPORT DE DESAGUE**

EL FRACCIONAMIENTO PEYTON ESTATES UNIT EIGHT SE ENCUENTRA EN TERRENO DESÉRTICO CUBIERTO POR VEGETACIÓN Y SIN DESARROLLO URBANO. UNA CRESTA EXISTENTE CERCA DEL NORTE DE LA SUBDIVISION HACE QUE EL TERRENO SE INCLINE DE NORTE A SUROESTE Y DE OESTE A ESTE A DOS PUNTOS BAJOS EXISTENTES AL ESTE Y SUROESTE DE LA SUBDIVISION. TODA EL AGUA DE LLUVIA DE LOS LOTES RESIDENCIALES, CALLES LOCALES, Y UN PARQUE SERÁ MANDADA POR FLUJO SUPERFICIAL A TRAVÉS DE UN SISTEMA NUEVO DE ESTRUCTURAS DE DRENAJE. ESTA AGUA DE LLUVIA SE TRANSFERIRÁ A TRAVÉS DE UN NUEVO SISTEMA DE DRENAJE EXCLUSIVO PARA TORMENTAS QUE DESCARGA EN DOS NUEVAS LAGUNAS DE RETENCIÓN. ESTAS DOS LAGUNAS, LAGUNA 1 Y LAGUNA 2, SE ENCUENTRAN DENTRO DE LAS INMEDIACIONES DE LA SUBDIVISION Y ESTÁN DISEÑADAS CON LA SUFICIENTE CAPACIDAD PARA RETENER EL AGUA DE UNA TORMENTA DE 100 AÑOS.

EL DESARROLLO PROPUESTO SE DIVIDE EN VARIAS ÁREAS DE DRENAJE. LAS ÁREAS DE DRENAJE DEL 1 AL 7 Y 15 INCLUYEN LOTES RESIDENCIALES, CALLES INTERIORES, UN PARQUE, Y UNA PORCIÓN DE PEYTON DRIVE QUE DESCARGARÁN EN LA LAGUNA DE RETENCIÓN 1. LAS ÁREAS DE DRENAJE DEL 8 AL 11 INCLUYEN LOTES RESIDENCIALES Y CALLES INTERIORES QUE DESCARGARÁN A LA LAGUNA DE RETENCIÓN 2.

EL ÁREA DE DRENAJE 12 Y 13 SE ENCUENTRA EN UNA PORCIÓN AL ESTE DEL ÁREA DE DESARROLLO Y CAPTARA LA AFLUENTE PLUVIAL DE LOS LOTES RESIDENCIALES Y LAS CALLES INTERIORES. EL FLUJO DESARROLLADO DEL ÁREA DE DRENAJE 12 Y 13 SE MOVERÁ POR FLUJO SUPERFICIAL EN DIRECCIÓN ESTE A TRAVÉS DEL FRACCIONAMIENTO "THE ESTATES AT EMERALD PARK UNIT FOUR" Y DESCARGARÁ EN UNA LAGUNA DE RETENCIÓN DENTRO DEL FRACCIONAMIENTO "THE ESTATES AT EMERALD PARK UNIT TWO". EL ÁREA DE DRENAJE 14 DESCARGARÁ AGUA DE LLUVIA DE PEYTON DRIVE EN DIRECCIÓN NORTE A TRAVÉS DEL FRACCIONAMIENTO "PEYTON ESTATES UNIT ONE" Y DESCARGARÁ EN UNA LAGUNA DE DETENCIÓN DENTRO DEL FRACCIONAMIENTO "PEYTON ESTATES UNIT ONE".

ESTAS MEDIDAS ANTES MENCIONADAS PROPORCIONARÁN EL DRENAJE SUFICIENTE PARA TODOS LOS EDIFICIOS, EVITARÁN LA CONCENTRACION DE AGUA DE LLUVIA HACIA OTROS LOTES Y CANALIZARÁN EL DRENAJE INDIVIDUAL DE CADA LOTE EN CONJUNTO CON EL DRENAJE DE LLUVIA Y PATRONES DE FLUJO DE EL ÁREA. EL MAPA DE DRENAJE MOSTRADO ABAJO ILLUSTR LA LOCALIZACIÓN DE LA INFRAESTRUCTURA DEL DRENAJE.

**CERTIFICACIÓN**

BAJO EL GOBIERNO LOCAL, CÓDIGO 232.021(4) "FLOODPLAIN" SE REFIERE A CUALQUIER ÁREA SUSCEPTIBLE A INUNDACIÓN DURANTE UNA TORMENTA DE 100 AÑOS POR CUALQUIER FUENTE DE AGUA, O QUE HA SIDO IDENTIFICADA POR FEMA BAJO LA REGULACIÓN "NATIONAL FLOOD INSURANCE ACT". CON MI FIRMA PRESENTE EN ESTE DOCUMENTO, CERTIFICO QUE LA SUBDIVISION "PEYTON ESTATES UNIT EIGHT" SE ENCUENTRA DENTRO DE LA DESIGNACIÓN DE "X" (EXPLICADA COMO ÁREAS DE TORMENTA DE 100 AÑOS CON PROFUNDIDAD PROMEDIO MENORES A 1 PIE O CON ÁREAS DE DRENAJE MENORES A 1 MILLA CUADRA). Y ÁREAS PROTEGIDAS CON DIQUES PARA TORMENTA DE 100 AÑOS) DESIGNADA EN EL PANEL 480212 0237B CON FECHA DE SEPTIEMBRE 4, 1991 EN EL MAPA DE ASEGURANZA PARA INUNDACIONES, CONDADO DE EL PASO, TEXAS

**WATER DISTRIBUTION REPORT**

THE PASEO DEL ESTE MUNICIPAL UTILITY DISTRICT NO. 1 (PDEMUD1) WILL PROVIDE POTABLE WATER SERVICE TO PEYTON ESTATES UNIT EIGHT SUBDIVISION. HUNT PEYTON ESTATES LLC (THE SUBDIVIDER) AND PDEMUD1 HAVE ENTERED INTO A CONTRACT IN WHICH PDEMUD1 WILL PROVIDE SUFFICIENT WATER TO THE SUBDIVISION FOR AT LEAST THIRTY YEARS AND PDEMUD1 HAS PROVIDED DOCUMENTATION TO SUFFICIENTLY ESTABLISH LONG TERM QUANTITY AND QUALITY OF THE AVAILABLE WATER SUPPLY TO SERVE THE FULL DEVELOPMENT OF THE SUBDIVISION.

THE PROPOSED WATER SYSTEM WILL TIE-INTO EXISTING WATER LINES AT THREE (3) DIFFERENT POINTS AS FOLLOWS.

1. AT THE INTERSECTION OF EMMA ROSE AND PEYTON DRIVE, THE SYSTEM WILL TIE INTO AN EXISTING SIXTEEN-INCH (16") DIAMETER WATER LINE.
2. AT THE SOUTHERN BOUNDARY LINE WHERE PEYTON ESTATES UNIT EIGHT ABUTS PEYTON ESTATES UNIT SEVEN, THE SYSTEM WILL TIE INTO THREE (3) EXISTING EIGHT-INCH (8") DIAMETER WATER STUB OUTS AT ADAMTOWNE DRIVE, LODON STREET, AND FRODSHAM STREET.
3. AT THE END OF EMERALD HILLS AVENUE WHERE PEYTON ESTATES UNIT EIGHT ABUTS THE ESTATES AT EMERALD PARK UNIT FOUR, THE SYSTEM WILL TIE INTO AN EXISTING EIGHT-INCH (8") DIAMETER STUB OUT.

THESE TIE-IN LINES WILL FEED OFF INTO EIGHT-INCH (8") DIAMETER WATER LINES THAT WILL RUN ALONG THE NORTH AND EAST SIDES OF EACH PROPOSED STREET RIGHT-OF-WAY. THE PROPOSED WATER LINES WILL SERVICE THREE HUNDRED AND TWENTY-FIVE (325) LOTS WITH THREE-QUARTER-INCH (3/4") DIAMETER SERVICE WATER LINES. PARK IRRIGATION WILL BE SERVICED WITH ONE (1) ONE AND A HALF-INCH (1 1/2") DIAMETER SERVICE WATER LINE. THE PROPOSED WATER DISTRIBUTION SYSTEM WILL ALSO INCLUDE FIFTEEN (15) FIRE HYDRANTS AND ASSEMBLIES AND FIFTY-FOUR (54) EIGHT-INCH (8") GATE VALVES.

THE PROPOSED WATER DISTRIBUTION SYSTEM WILL BE CONSTRUCTED BY THE SUBDIVIDER, PRIOR TO OBTAINING WATER SERVICE, INDIVIDUAL LOT OWNERS MUST OBTAIN A WATER METER FROM PDEMUD1 AND PAY ALL APPLICABLE FEES TO THE PDEMUD1. ADDITIONALLY, INDIVIDUAL LOT OWNERS ARE RESPONSIBLE FOR THE COST AND INSTALLATION OF ANY SERVICE LINE REQUIRED FROM THE METER BOX TO THEIR DWELLING. THE WATER FACILITIES WILL BE FULLY OPERABLE ON THE DATE OF

**CERTIFICATION**

I CERTIFY THAT THE WATER SERVICE FACILITIES DESCRIBED ABOVE ARE IN COMPLIANCE WITH THE MODEL SUBDIVISION RULES ADOPTED UNDER SECTION 16.343, TEXAS WATER CODE. THE WATER FACILITIES TO BE INSTALLED BY THE SUBDIVIDER WILL BE CONSTRUCTED WITHIN TWO (2) YEARS OF THE FILING OF THE FINAL PLAT FOR THIS SUBDIVISION.

**WATER FACILITIES**

I CERTIFY THAT THE ESTIMATED COST TO INSTALL UN CONSTRUCTED WATER FACILITIES DESCRIBED ABOVE ARE AS FOLLO. THE WATER DISTRIBUTION FACILITIES WILL BE CONSTRUCTED IN ACCORDANCE WITH THE PASEO DEL ESTE MUNICIPAL UTILITY DISTRICT NO. 1 (PDEMUD1) SPECIFICATIONS AT AN ESTIMATED COST OF \$698,882 FOR THE SUBDIVISION.

JOSE HERNANDEZ, P.E.  
H2O TERRA  
TEXAS REGISTERED  
ENGINEERING FIRM F-2103



**REPORT DE DISTRIBUCION DE AGUA**

EL DISTRITO 1 DEL SERVICIO DE AGUAS MUNICIPALES PASEO DEL ESTE (PDEMUD1) PROVEERÁ SERVICIO DE AGUA POTABLE A LA SUBDIVISION PEYTON ESTATES UNIDAD 8. HUNT PEYTON ESTATES, LLC (SUBDIVISOR) Y PDEMUD1 ENTRARON EN UN CONTRATO EN EL CUAL PDEMUD1 PROVEERÁ EL AGUA SUFICIENTE PARA LA SUBDIVISION POR LOS PRÓXIMOS 30 AÑOS Y PDEMUD1 HA PROVISTO DE LA DOCUMENTACIÓN NECESARIA [ARA SUSTENTAR LA CANTIDAD Y CALIDAD A LARGO PLAZO DEL AGUA POTABLE DISPONIBLE PARA SERVIR EL DESARROLLO COMPLETO DE LA SUBDIVISION.

EL SISTEMA DE AGUA PROPUESTO SE CONECTARÁ A LAS LINEAS EXISTENTES EN TRES DIFERENTES PUNTOS COMO SE EXPLICA A CONTINUACION:

- (1) EN LA INTERSECCION DE EMMA ROSE Y PEYTON DRIVE, EL SISTEMA SE CONECTARÁ A UNA LINEA EXISTENTE DE 12 PULGADAS.
- (2) EN LA LINEA DEL LÍMITE SUR, DONDE PEYTON ESTATES UNIDAD 8 SE APOYA EN PEYTON ESTATES UNIDAD 7 SE UNIRÁ A TRES LINEAS DE AGUA DE OCHO PULGADAS DE DIÁMETRO EXISTENTES EN ADAMTOWNE DRIVE, LODON STREET Y FRODSHAM STREET .
- (3)AL FINAL DE LA CALLE EMERALD HILLS EN DONDE LA SUBDIVISION PEYTON ESTATES UNIDAD 8 COLINDA CON LA UNIDAD 4 DE EMERALD PARK, EL SISTEMA SE CONECTARÁ CON UNA LINEA EXISTENTE DE 8 PULGADAS.

ESTAS CONECCIONES ALIMENTARÁN LINEAS DE OCHO-PULGADAS (8") DE DIÁMETRO QUE CORRERÁN A TRAVÉS DE LOS LADOS NORTE Y ESTE POR CADA DERECHO DE CALLE PROPUESTO. LAS LINEAS DE AGUA PROPUESTAS SERVIRÁN TRESCIENTOS VEINTE Y CINCO (325) LOTES CON LINEAS DE TRES CUARTOS DE PULGADA (3/4") DE DIÁMETRO PARA AGUA POTABLE. LA IRRIGACION DEL PARQUE SE HARÁ MEDIANTE UNA LINEA DE UNA Y MEDIA PULGADA (1 1/2") DE DIÁMETRO. EL SISTEMA DE AGUA PROPUESTO TAMBIÉN INCLUIRÁ QUINCE (15) HIDRANTES DE EMERGENCIA, CINCUENTA Y CUATRO (54) VÁLVULAS DE COMPUERTA DE OCHO PULGADAS (8") Y DOS (2) VÁLVULAS REDUCTORAS DE PRESIÓN.

EL SISTEMA DE DISTRIBUCION DE AGUA SERÁ CONSTRUIDO POR EL SUBDIVISOR. ANTES DE OBTENER SERVICIO DE AGUA, LOS DUEÑOS DE CADA LOTE DEBERÁN OBTENER UN MEDIDOR DE AGUA POR MEDIO DE PDEMUD1 Y PAGAR LOS COSTOS APLICABLES A PDEMUD1. ADICIONALMENTE, LOS DUEÑOS DE CADA LOTE SERÁN RESPONSABLES POR EL COSTO DE INSTALACION DE CUALQUIER LINEA DE SERVICIO REQUERIDA DESDE EL MEDIDOR HASTA SU PROPIEDAD. LAS INSTALACIONES DE AGUA ESTARÁN OPERANDO OFICIALMENTE EN (FECHA), 2020.

**CERTIFICACIÓN**

YO CERTIFICO QUE LAS INSTALACIONES PARA EL SERVICIO DE AGUA POTABLE AQUÍ DESCRITAS ESTÁN EN CONFORMIDAD CON LAS REGLAS DE SUBDIVISIONES ADOPTADAS EN LA SECCIÓN 16.343, TEXAS WATER CODE. LAS INSTALACIONES DE AGUA QUE SERÁN INSTALADAS POR EL SUBDIVISOR SERÁN CONSTRUIDAS DENTRO DE DOS (2) AÑOS DESPUÉS DE ARCHIVAR EL PLANO FINAL DE ESTA SUBDIVISION.

BASIN NO.	CONTRIBUTING DRAINAGE AREAS	"A" AREA (AC.)	"R" RAINFALL IN/24HR (R <sub>100</sub> ) <sup>1</sup>	"C" WEIGHTED RUNOFF COEFFICIENT	REQUIRED CAPACITY, AC.-FT. (Q <sub>T100</sub> ) <sup>2</sup>	SILT VOLUME IN/AC.-FT. (Q <sub>S</sub> ) <sup>3</sup>	25% EMERGENCY AC.-FT.	EXPECTED CAPACITY, AC.-FT. (Q <sub>EXP</sub> )	TOTAL CAPACITY, AC.-FT. (Q <sub>TOT</sub> )	HIGHWATER SURFACE ELEVATION, 100-YR.(FT.)	FREEBOARD FT.
1	1-7 & 15	49.234	4.30	0.630	11.110	0.591	2.778	14.478	17.652	3950.78	2.22
2	8-11	18.516	4.30	0.594	3.944	0.222	0.986	5.152	5.999	3975.80	1.20

<sup>1</sup> RAINFALL DEPTH (R<sub>100</sub>) AS PER TABLE 4-2 IN THE EASTSIDE REGION OF THE CITY OF EL PASO ENGINEERING DEPARTMENT "DRAINAGE DESIGN MANUAL" DATED JUNE, 2008.

<sup>2</sup> REQUIRED CAPACITY (Q<sub>T100</sub>) WAS CALCULATED USING THE TOTAL RUNOFF FORMULA AS PER SECTION 2-4 OF THE CITY OF EL PASO ENGINEERING DEPARTMENT "DESIGN STANDARDS FOR CONSTRUCTION" DATED JUNE 3, 2008.

DRAINAGE AREA NO.	DRAINAGE AREA, ACRES (A)	RUNOFF COEFFICIENT (C <sub>100</sub> )	TIME OF CONCENTRATION, MIN. (T <sub>c</sub> )	DESIGN STORM INTENSITY, IN./HR. (I <sub>100</sub> ) <sup>1</sup>	VOLUMETRIC FLOW RATE, C.F.S. (Q <sub>100</sub> )	REQUIRED CAPACITY, AC.-FT. (Q <sub>T100</sub> ) <sup>2</sup>
1a	4.271	0.60	10.0	5.36	13.74	0.918
1b	3.667	0.60	10.0	5.36	11.80	0.788
2a	2.526	0.60	10.0	5.36	8.13	0.543
2b	1.095	0.60	10.0	5.36	3.52	0.235
3	7.322	0.60	10.0	5.36	23.56	1.574
4a	6.884	0.60	10.0	5.36	22.15	1.480
4b	1.769	0.60	10.0	5.36	5.69	0.390
5	6.386	0.60	10.0	5.36	20.55	1.373
6a	3.905	0.60	10.0	5.36	12.56	0.840
6b	4.482	0.60	10.0	5.36	14.42	0.964
7	2.133	0.50	10.0	5.36	5.72	0.382
8	1.043	0.50	10.0	5.36	2.80	0.187
9	5.719	0.60	10.0	5.36	18.40	1.230
10	3.473	0.60	10.0	5.36	11.17	0.747
11	8.281	0.60	10.0	5.36	26.64	1.780
12	0.104	0.95	10.0	5.36	0.53	0.035
13	3.140	0.60	10.0	5.36	10.10	0.675
14	0.801	0.95	10.0	5.36	4.08	0.273
15a	2.224	0.95	10.0	5.36	11.33	0.757
15b	2.570	0.95	10.0	5.36	13.09	0.875

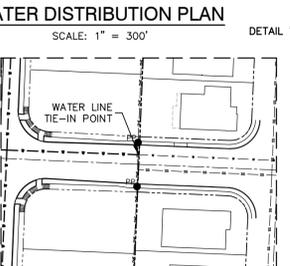
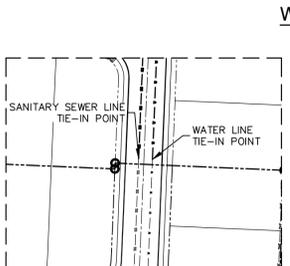
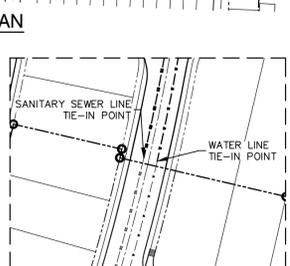
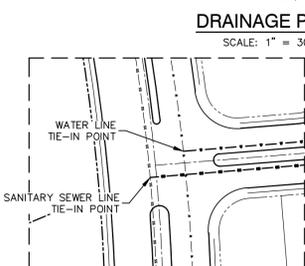
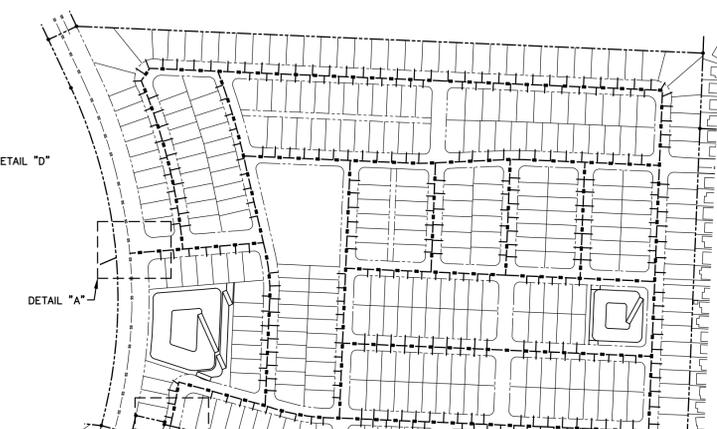
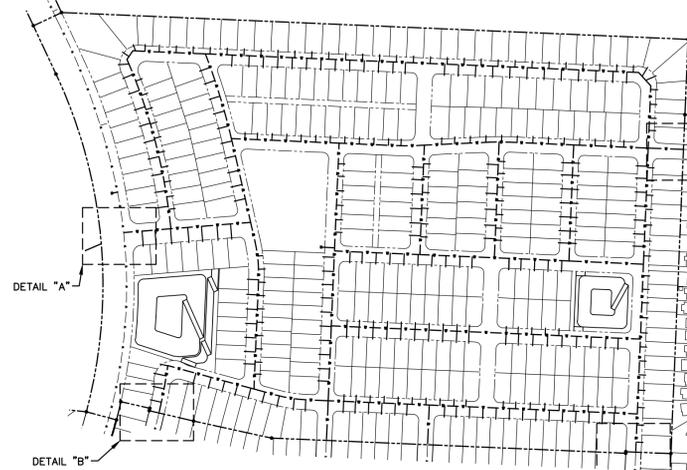
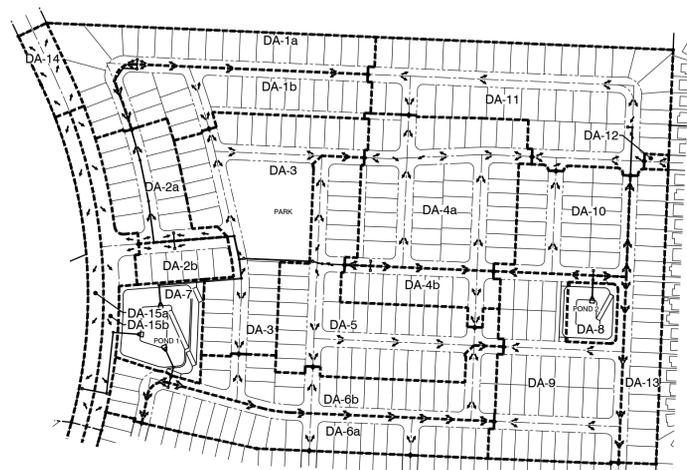
<sup>1</sup> RUNOFF COEFFICIENT (C<sub>100</sub>) AS PER TABLE 4-5 OF THE CITY OF EL PASO ENGINEERING DEPARTMENT "DRAINAGE DESIGN MANUAL" DATED JUNE, 2008

<sup>2</sup> REQUIRED CAPACITY (Q<sub>T100</sub>) WAS CALCULATED USING THE TOTAL RUNOFF FORMULA AS PER SECTION 2-4 OF THE CITY OF EL PASO ENGINEERING DEPARTMENT "DESIGN STANDARDS FOR CONSTRUCTION" DATED JUNE 3, 2008.

<sup>3</sup> INTENSITY EQUATIONS (I<sub>100</sub>) AS PER EQUATION 4-25 IN THE EASTSIDE REGION OF THE CITY OF EL PASO ENGINEERING DEPARTMENT "DRAINAGE DESIGN MANUAL" DATED JUNE, 2008

<sup>4</sup> VOLUMETRIC FLOW RATE (Q<sub>100</sub>) WAS CALCULATED USING THE RATIONAL METHOD AS PER SECTION 4.3.2 OF THE CITY OF EL PASO ENGINEERING DEPARTMENT "DRAINAGE DESIGN MANUAL" DATED JUNE, 2008

<sup>5</sup> ALL COMPUTATIONS BASED ON 100 YEAR STORM FREQUENCY



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BPBE FIRM NO. F-2103 TPLS FIRM NO. 10067070  
2020 E. MILLS AVENUE El Paso, TX 79901  
(915) 533-1418 FAX: (915) 533-4972



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SHEET 1 OF 1