

LIBERTY TREE ACADEMY CONSTRUCTION DOCUMENTS

TOWN OF PEYTON, EL PASO COUNTY FINAL FOR CONSTRUCTION SEPTEMBER 2018



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LAND USE SUMMARY

PARCEL AREA:	10.7 acres
PROJECT AREA:	3.4 acres
BUILDING AREA (PHASE 1):	41,585 sf
FAR:	0.28

CIVIL ENGINEER

MATRIX DESIGN GROUP
1601 BLAKE STREET, SUITE 200
DENVER, CO. 80202
PH: 303-572-0200
FAX: 303-572-0202
CONTACT: DAVE KLINE, P.E., PTOE
DAVE_KLINE@MATRIXDESIGNGROUP.COM

LANDSCAPE ARCHITECT

MATRIX DESIGN GROUP
1601 BLAKE STREET, SUITE 200
DENVER, CO. 80202
PH: 303-572-0200
FAX: 303-572-0202
CONTACT: TERESA ROBERSON
TERESA_ROBERSON@MATRIXDESIGNGROUP.COM

LEGAL DESCRIPTION:

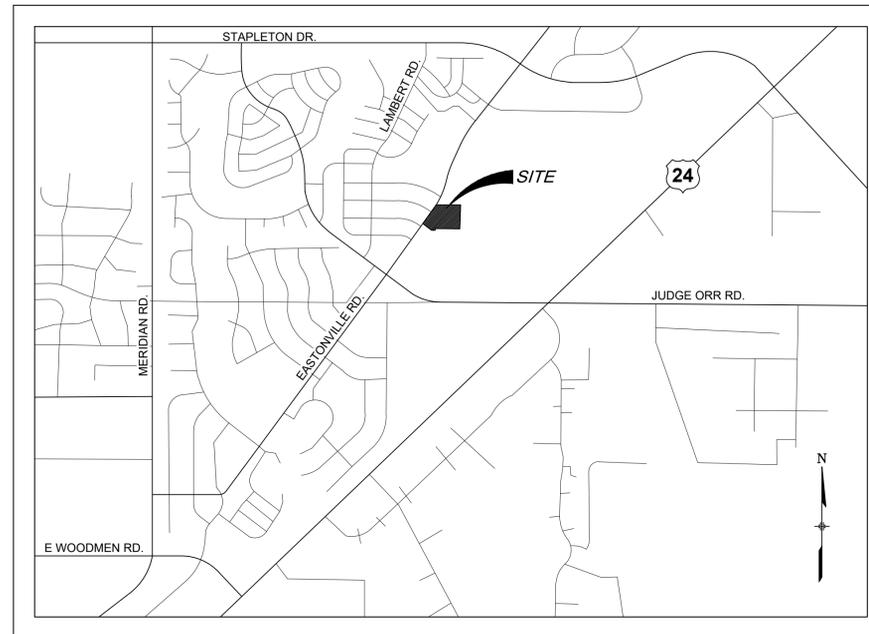
LOT 1178, WOODMEN HILLS FILING NO. 10
COUNTY OF EL PASO
STATE OF COLORADO

BASIS OF BEARING:

BASIS OF BEARINGS: BEARINGS ARE BASED ON GRID BEARINGS OF THE COLORADO STATE PLANE CENTRAL ZONE, BASED ON THE EAST LINE OF LOT 1178 OF THE PLAT OF WOODMEN HILLS FILING NO. 10 AS RECORDED ON JULY 13, 2001 IN THE OFFICE OF THE EL PASO COUNTY CLERK AND RECORDER UNDER RECEPTION NUMBER 201098618, MONUMENTED ON THE NORTH END BY A FOUND 2-1/2" ALUMINUM CAP STAMPED "PLS 38160" AND ON THE SOUTH END BY A FOUND 1-1/2" ALUMINUM CAP STAMPED "PLS 32822", AND BEARS SOUTH 00°24'21" EAST A DISTANCE OF 1116.46 FEET.

BENCHMARK:

BENCHMARK IS DERIVED FROM AN ONLINE POSITIONING USER SERVICE PROVIDED BY THE NATIONAL GEODETIC SURVEY PERFORMED ON A SET #5 REBAR LOCATED ON THE EAST SIDE OF EASTONVILLE ROAD NEAR THE SOUTH PCR APPROXIMATELY 20 FEET SOUTH OF A SANITARY MANHOLE AND 12 FEET EAST OF A FIRE HYDRANT. THE ELEVATION DERIVED FROM THE STATIC SOLUTION IS 6960.52 U.S. SURVEY FEET (NAVD 88).



LOCATION MAP

SCALE: N.T.S.

DESIGN ENGINEER'S STATEMENT:

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

DAVID KLINE, P.E., PTOE

9/11/2018

DATE

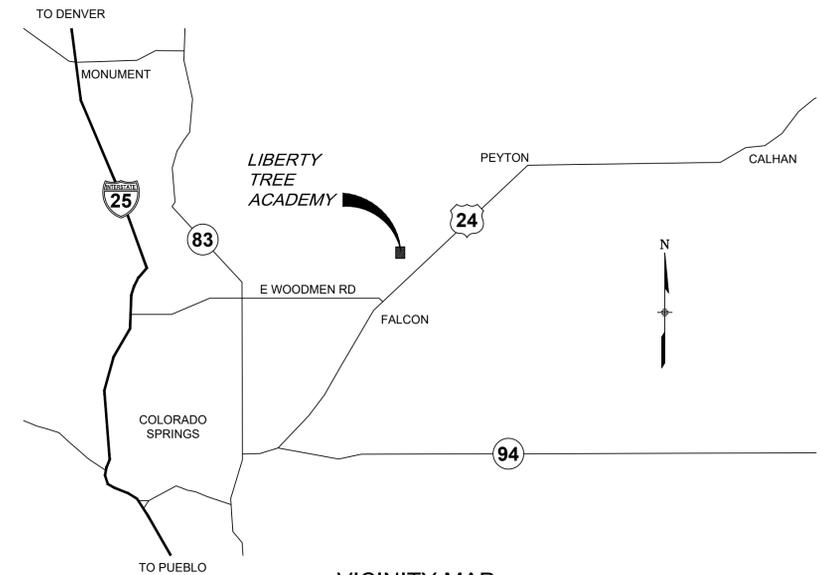
OWNER/DEVELOPER'S STATEMENT:

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH ALL OF THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

LIBERTY TREE ACADEMY BUILDING CORPORATION

9/11/2018

DATE



VICINITY MAP

SCALE: N.T.S.

EL PASO COUNTY:

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTORS DISCRETION.

Approved*
by Elizabeth Nibump
El Paso County Planning and Community Development
on behalf of Jennifer Irvine, County Engineer, ECM Administrator
JENNIFER IRVINE, P.E. DATE
09/11/2018 1:19:40 PM

*Approval is contingent upon Fire Department Approval.

FALCON FIRE DEPARTMENT:

ACCORDING TO THE MODELED CALCULATIONS REVIEWED BY THE GOVERNING WATER DISTRICT AND/OR COLORADO REGISTERED CIVIL ENGINEER/DESIGNER; THE THEORETICAL AVAILABLE FIRE FLOW AT NODE _____ IS _____ GALLONS PER MINUTE UNDER MAXIMUM DAILY DEMAND CONDITIONS AT 20PSI RESIDUAL. THE ACTUAL FIRE FLOW MAY VARY DUE TO VARIOUS PARAMETERS.

UPON DETAILED REVIEW OF THE AVAILABLE WATER SUPPLY, FIRE HYDRANT LOCATIONS AND HOSE LAY DISTANCES, THESE PLANS ARE HEREBY CONSIDERED APPROVED.

FIRE DEPARTMENT SIGNATURE _____

DATE _____

REFERENCE DRAWINGS	No.	DATE	DESCRIPTION	BY
X:995 MDG22x34				
COMPUTER FILE MANAGEMENT				
FILE NAME: R:118.995.001 (Liberty Tree Academy)\Dwg\Construction Plans\TS01.dwg				
CTB FILE: ----				
PLOT DATE: September 11, 2018 9:11:37 AM				
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.				

SHEET KEY

PREPARED FOR:
LIBERTY TREE ACADEMY

PREPARED BY:
Matrix DESIGN GROUP
AN EMPLOYEE-OWNED COMPANY

SEAL
FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 18.995.001

LIBERTY TREE ACADEMY
TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-18-023

TITLE SHEET

DESIGNED BY:	ACR	SCALE:	DATE ISSUED:	SEPTEMBER 2018	DRAWING No.
DRAWN BY:	ACR	HORIZ.	NA	1	TS01
CHECKED BY:	DRK	VERT.	NA	1	OF 29



GENERAL CONSTRUCTION PLAN NOTES:

1. ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).
3. CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:
 - a. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
 - b. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
 - c. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
 - d. CDOT M & S STANDARDS
4. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
5. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PCD) - INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.
8. CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.
10. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
11. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
12. SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.
13. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DOT AND MUTCD CRITERIA. [IF APPLICABLE, ADDITIONAL SIGNING AND STRIPING NOTES WILL BE PROVIDED.]
14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DOT, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
15. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: R:\18.995.001 (Liberty Tree Academy)\Dwg\Construction Plans\GN01.dwg			
CTB FILE: ----			
PLOT DATE: 9/11/2018 8:40 AM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

SHEET KEY	
1	2

PREPARED FOR:
LIBERTY TREE ACADEMY

PREPARED BY:
Matrix DESIGN GROUP
AN EMPLOYEE-OWNED COMPANY

SEAL

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 18.995.001

LIBERTY TREE ACADEMY

TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-18-023

GENERAL NOTES

DESIGNED BY: ACR	SCALE:	DATE ISSUED: SEPTEMBER 2018	DRAWING No.
DRAWN BY: ACR	HORIZ. NA	2 OF 29	GN01
CHECKED BY: DRK	VERT. NA		



ABBREVIATIONS

AD	ALGEBRAIC DIFFERENCE	LS	LANDSCAPING
ASSY	ASSEMBLY	LT	LEFT
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS	LVC	LENGTH OF VERTICAL CURVE
APPROX	APPROXIMATE OR APPROXIMATELY	MAX	MAXIMUM
AVE	AVENUE	MFGR	MANUFACTURER
BOC	BACK OF CURB	MH	MANHOLE
Ø OR B/L	BASELINE	MID	MIDDLE OR MIDPOINT
BLVD	BOULEVARD	MIN	MINIMUM
BVCE	BEGINNING OF VERTICAL CURVE ELEVATION	MJ	MECHANICAL JOINT
BVCS	BEGINNING OF VERTICAL CURVE STATION	MSL	MEAN SEA LEVEL
C&G	CURB AND GUTTER	NIC	NOT IN CONTRACT
CDOT	COLORADO DEPARTMENT OF TRANSPORTATION	NO OR #	NUMBER
CI	CAST IRON	NOM	NOMINAL
CEN	CENTER	NTS	NOT TO SCALE
ε OR C/L	CENTERLINE	OC	ON CENTER
CLR	CLEAR	PR OR PROP	PROPOSED
CMP	CORRUGATED METAL PIPE	PC	POINT OF CURVATURE
CO	CLEANOUT	PCC	POINT OF COMPOUND CURVE
CONC	CONCRETE	PCR	POINT OF CURB RETURN
CONST	CONSTRUCTION	PE	PLAIN END
CONT	CONTINUOUS	PGL	PROFILE GRADE LINE
DIA OR Ø	DIAMETER	¶ OR P/L	PROPERTY LINE
DN	DOWN	PRC	POINT OF REVERSE CURVE
DWG	DRAWING	PT	POINT OF TANGENCY
EA	EACH	PVC	POINT OF VERTICAL CURVE OR POLYVINYL CHLORIDE
EGL	ENERGY GRADE LINE	PVI	POINT OF VERTICAL INTERSECTION
ELEV OR EL	ELEVATION	PVMT	PAVEMENT
ELL	ELBOW	PVT	POINT OF VERTICAL TANGENT
EOP	EDGE OF PAVEMENT	R OR RAD	RADIUS
ESMT	EASEMENT	RCP	REINFORCED CONCRETE PIPE
EVCE	END OF VERTICAL CURVE ELEVATION	RED	REDUCER
EVCS	END OF VERTICAL CURVE STATION	REF	REFERENCE
EW	EACH WAY	REINF	REINFORCING
EX. OR EXIST	EXISTING	REQ	REQUIRED
FES	FLARED END SECTION	REV	REVISION
FIN	FINISHED	ROW	RIGHT-OF-WAY
┌ OR F/L	FLOWLINE	RT	RIGHT
FLG	FLANGE	SCH	SCHEDULE
FT	FOOT/FEET	SD OR STM	STORM SEWER
FRP	FIBERGLASS REINFORCED PIPE	SQ	SQUARE
FUT	FUTURE	ST	STREET
GAL	GALLON	STA	STATION
GALV	GALVANIZED	STD	STANDARD
GAU	GAUGE (MATERIAL)	STL	STEEL
GV	GATE VALVE	SS OR SAN	SANITARY SEWER
GW	GROUNDWATER	SWK	SIDEWALK
HBP	HOT BITUMINOUS PAVEMENT	TAN	TANGENT
HCL	HORIZONTAL CONTROL LINE	TB	THRUST BLOCK
HGL	HYDRAULIC GRADE LINE	THD	THREADED
HP	HIGH POINT	THK	THICKNESS
HORIZ	HORIZONTAL	TL	TRUE LENGTH
HCL	HORIZONTAL CONTROL LINE	TS	TRUE SLOPE
HR	HOURLY	TYP	TYPICAL
INV	INVERT	UG	UNDERGROUND
K	VERTICAL CURVE FACTOR	UTIL	UTILITY
LBS	POUNDS	VC	VERTICAL CURVE
LF	LINEAR FEET	VERT	VERTICAL
LP	LOW POINT	W	WIDTH
		w/	WITH

PROPOSED LEGEND

	PROPOSED CENTERLINE		PROPOSED MANHOLE
	PROPOSED FENCE		THRUST BLOCK
	PROPOSED UNDERGROUND UTILITY		FIRE HYDRANT
	DRAINAGE		PROPOSED WATER VALVE
	RIGHT OF WAY		WATER FITTINGS
	EASEMENT		WATER METER
	PROPOSED CURB & GUTTER		STORM INLET
	PROPOSED CONTOUR		SANITARY SEWER SERVICE
	ENERGY GRADE LINE		PROPOSED STORM DRAIN/INLET PLUG PIPE
	HYDRAULIC GRADE LINE		PROPOSED SIGN
	SLOPE OR DRAINAGE FLOW		PROPOSED BARRICADE
			PROPOSED LIGHT STANDARD

EXISTING LEGEND

	EXISTING PROPERTY LINE		EXISTING MANHOLE
	EXISTING R.O.W.		EXISTING POWER POLE
	EXISTING LOT LINE		EXISTING POWER POLE W/GUY WIRE
	EXISTING EASEMENT		EXISTING GATE VALVE
	SECTION LINE		EXISTING STORM INLET
	ROAD CENTERLINE		EXISTING SIGN
	EDGE OF PAVEMENT		EXISTING DECIDUOUS TREE
	CURB AND GUTTER		EXISTING CONIFEROUS TREE
	CONCRETE		EXISTING LIGHT STANDARD
	FENCE		
	RETAINING WALL		
	EXISTING WATERLINE		
	EXISTING SANITARY SEWER		
	EXISTING STORM SEWER		
	EXISTING ELECTRIC LINE		
	EXISTING GAS LINE		
	EXISTING TELEPHONE LINE		
	EXISTING FIBER LINE		
	EXISTING CONTOUR MAJOR		
	EXISTING CONTOUR MINOR		
	EXISTING FLOOD PLAIN		

MATERIALS LEGEND

	CONCRETE
	RECOMPACTED SUBGRADE
	HOT BITUMINOUS PAVEMENT (ASPHALT)

REFERENCE DRAWINGS			
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LIBERTY TREE ACADEMY

PREPARED BY:
Matrix DESIGN GROUP
AN EMPLOYEE-OWNED COMPANY

SEAL

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 18.995.001

LIBERTY TREE ACADEMY

TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-18-023

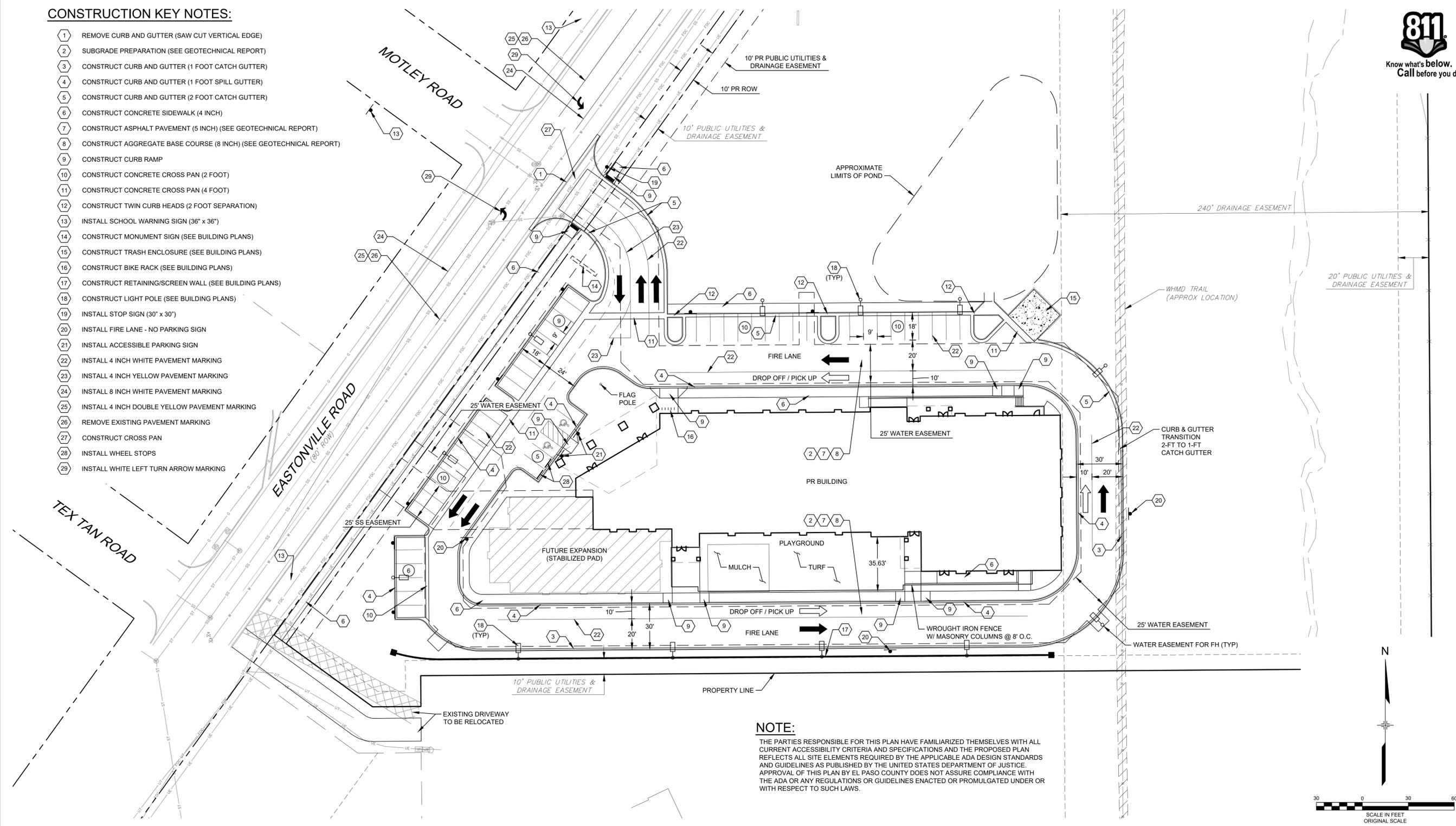
LEGEND & ABBREVIATIONS

DESIGNED BY:	ACR	SCALE:	DATE ISSUED:	SEPTEMBER 2018	DRAWING No.
DRAWN BY:	ACR	HORIZ. NA	SHEET	3 OF 29	LA01
CHECKED BY:	DRK	VERT. NA			



CONSTRUCTION KEY NOTES:

- 1 REMOVE CURB AND GUTTER (SAW CUT VERTICAL EDGE)
- 2 SUBGRADE PREPARATION (SEE GEOTECHNICAL REPORT)
- 3 CONSTRUCT CURB AND GUTTER (1 FOOT CATCH GUTTER)
- 4 CONSTRUCT CURB AND GUTTER (1 FOOT SPILL GUTTER)
- 5 CONSTRUCT CURB AND GUTTER (2 FOOT CATCH GUTTER)
- 6 CONSTRUCT CONCRETE SIDEWALK (4 INCH)
- 7 CONSTRUCT ASPHALT PAVEMENT (5 INCH) (SEE GEOTECHNICAL REPORT)
- 8 CONSTRUCT AGGREGATE BASE COURSE (8 INCH) (SEE GEOTECHNICAL REPORT)
- 9 CONSTRUCT CURB RAMP
- 10 CONSTRUCT CONCRETE CROSS PAN (2 FOOT)
- 11 CONSTRUCT CONCRETE CROSS PAN (4 FOOT)
- 12 CONSTRUCT TWIN CURB HEADS (2 FOOT SEPARATION)
- 13 INSTALL SCHOOL WARNING SIGN (36" x 36")
- 14 CONSTRUCT MONUMENT SIGN (SEE BUILDING PLANS)
- 15 CONSTRUCT TRASH ENCLOSURE (SEE BUILDING PLANS)
- 16 CONSTRUCT BIKE RACK (SEE BUILDING PLANS)
- 17 CONSTRUCT RETAINING/SCREEN WALL (SEE BUILDING PLANS)
- 18 CONSTRUCT LIGHT POLE (SEE BUILDING PLANS)
- 19 INSTALL STOP SIGN (30" x 30")
- 20 INSTALL FIRE LANE - NO PARKING SIGN
- 21 INSTALL ACCESSIBLE PARKING SIGN
- 22 INSTALL 4 INCH WHITE PAVEMENT MARKING
- 23 INSTALL 4 INCH YELLOW PAVEMENT MARKING
- 24 INSTALL 8 INCH WHITE PAVEMENT MARKING
- 25 INSTALL 4 INCH DOUBLE YELLOW PAVEMENT MARKING
- 26 REMOVE EXISTING PAVEMENT MARKING
- 27 CONSTRUCT CROSS PAN
- 28 INSTALL WHEEL STOPS
- 29 INSTALL WHITE LEFT TURN ARROW MARKING



NOTE:
 THE PARTIES RESPONSIBLE FOR THIS PLAN HAVE FAMILIARIZED THEMSELVES WITH ALL CURRENT ACCESSIBILITY CRITERIA AND SPECIFICATIONS AND THE PROPOSED PLAN REFLECTS ALL SITE ELEMENTS REQUIRED BY THE APPLICABLE ADA DESIGN STANDARDS AND GUIDELINES AS PUBLISHED BY THE UNITED STATES DEPARTMENT OF JUSTICE. APPROVAL OF THIS PLAN BY EL PASO COUNTY DOES NOT ASSURE COMPLIANCE WITH THE ADA OR ANY REGULATIONS OR GUIDELINES ENACTED OR PROMULGATED UNDER OR WITH RESPECT TO SUCH LAWS.

REFERENCE DRAWINGS			
X-995-MD-022x34			
X-995-PR-BASE			
X-995-EX-BASE			
X-995-EX-MAP			
X-995-PR-UTIL			

No.	DATE	DESCRIPTION	BY
REVISIONS			

COMPUTER FILE MANAGEMENT
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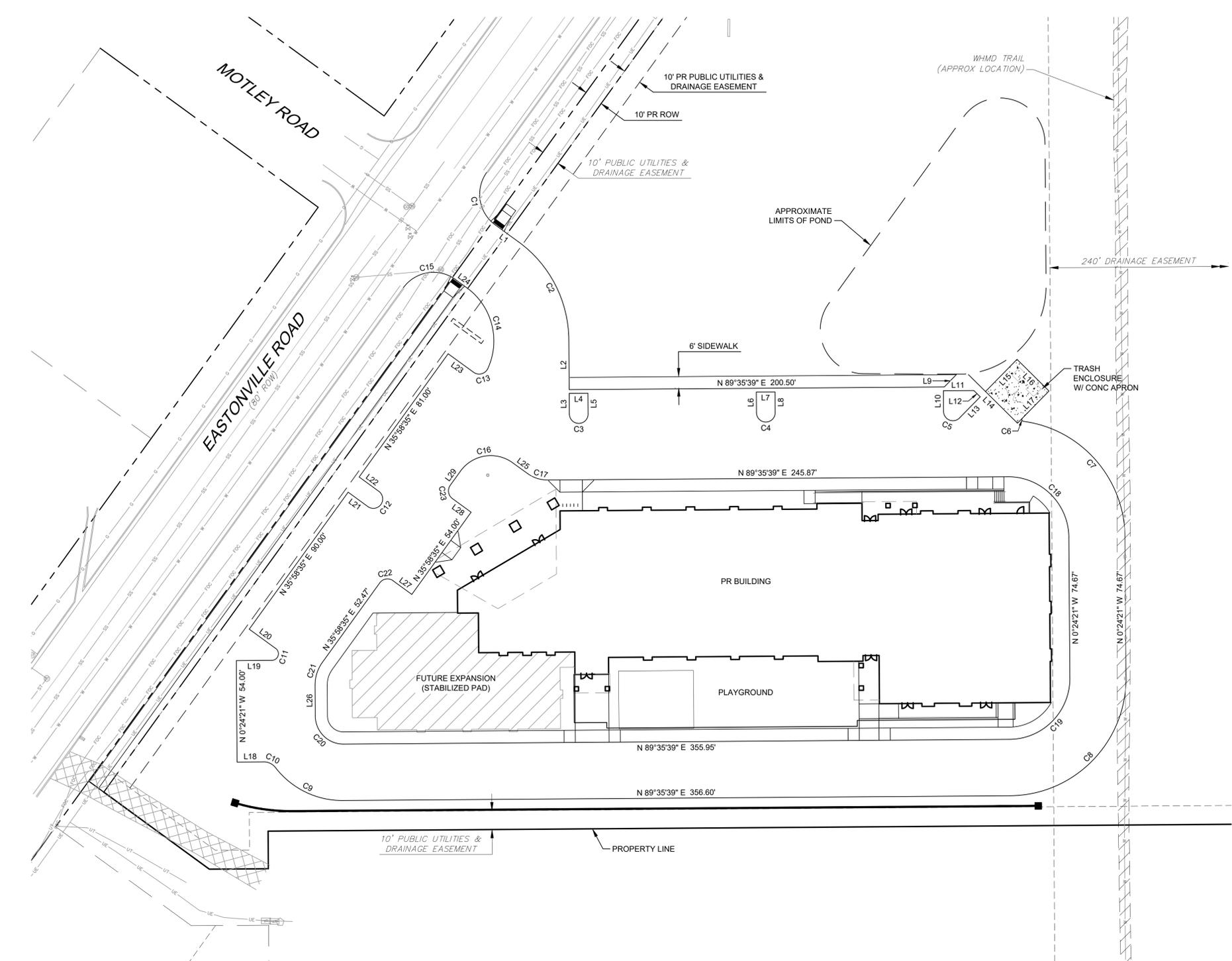
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LIBERTY TREE ACADEMY
 TOWN OF PEYTON, EL PASO COUNTY
 CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-18-023

SITE PLAN

DESIGNED BY: ACR	SCALE: 1" = 30'	DATE ISSUED: SEPTEMBER 2018	DRAWING No. SP01
DRAWN BY: ACR	HORIZ. NA	SHEET 4 OF 29	
CHECKED BY: DRK	VERT. NA		



Line #	Length	Direction
L1	15.56'	S 54°01'25" E
L2	26.39'	N 0°24'21" W
L3	11.00'	N 0°24'21" W
L4	10.00'	N 89°35'39" E
L5	11.00'	N 0°24'21" W
L6	11.00'	N 0°24'21" W
L7	10.00'	N 89°35'39" E
L8	11.00'	N 0°24'21" W
L9	9.19'	N 44°35'39" E
L10	11.00'	N 0°24'21" W
L11	16.29'	N 89°35'39" E
L12	4.80'	N 45°24'21" W
L13	15.76'	N 44°35'39" E
L14	36.82'	N 45°24'21" W
L15	24.00'	N 44°35'39" E
L16	24.00'	N 45°24'21" W
L17	24.00'	N 44°35'39" E
L18	14.23'	S 89°35'39" W
L19	19.00'	S 89°35'39" W
L20	17.45'	N 54°01'25" W
L21	13.00'	N 54°01'25" W
L22	13.00'	N 54°01'25" W
L23	16.71'	N 54°01'25" W
L24	7.47'	S 54°01'25" E
L25	10.01'	N 54°20'05" W
L26	16.58'	N 0°24'21" W
L27	12.45'	N 54°01'25" W
L28	12.45'	N 54°01'25" W
L29	9.31'	N 35°58'35" E

Curve	Length	Radius	Delta	Chord Bearing	Chord
C1	31.43'	20.00'	90°01'37"	S 9°00'37" E	28.29'
C2	60.83'	65.00'	53°37'04"	N 27°12'53" W	58.63'
C3	15.71'	5.00'	180°00'03"	N 89°35'38" E	10.00'
C4	15.71'	5.00'	180°00'03"	N 89°35'38" E	10.00'
C5	11.78'	5.00'	135°00'00"	S 67°54'21" E	9.24'
C6	2.22'	1.00'	127°01'45"	S 18°55'10" E	1.79'
C7	89.48'	62.50'	82°01'41"	N 41°25'12" W	82.03'
C8	98.17'	62.50'	90°00'00"	N 44°35'39" E	88.39'
C9	41.32'	45.00'	52°36'57"	S 64°05'53" E	39.89'
C10	7.35'	8.00'	52°36'57"	N 64°05'53" W	7.09'
C11	8.77'	3.50'	143°37'04"	N 17°47'07" E	6.65'
C12	15.71'	5.00'	180°00'03"	N 35°58'36" E	10.00'
C13	9.12'	5.15'	101°24'49"	N 75°16'10" E	7.97'
C14	48.02'	35.00'	78°36'32"	N 14°43'09" W	44.34'
C15	31.42'	20.00'	90°00'18"	S 80°58'26" W	28.29'
C16	31.31'	20.00'	89°41'20"	S 80°49'15" W	28.21'
C17	11.33'	18.00'	36°04'16"	S 72°22'13" E	11.15'
C18	51.05'	32.50'	90°00'00"	N 45°24'21" W	45.96'
C19	51.05'	32.50'	90°00'00"	N 44°35'39" E	45.96'
C20	23.56'	15.00'	90°00'00"	S 45°24'21" E	21.21'
C21	12.70'	20.00'	36°22'56"	S 17°47'07" W	12.49'
C22	7.85'	5.00'	90°00'00"	S 80°58'35" W	7.07'
C23	7.85'	5.00'	90°00'00"	S 9°01'25" E	7.07'

No.	DATE	DESCRIPTION	BY
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CTB FILE: ----			
PLOT DATE: 9/11/2018 8:40 AM			
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SHEET KEY
1

PREPARED FOR:
LIBERTY TREE ACADEMY

PREPARED BY:
Matrix DESIGN GROUP
 AN EMPLOYEE-OWNED COMPANY

SEAL

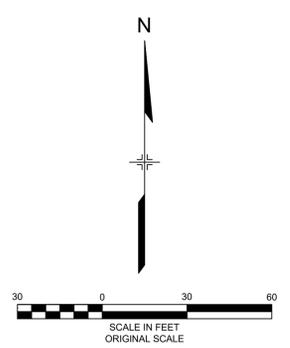
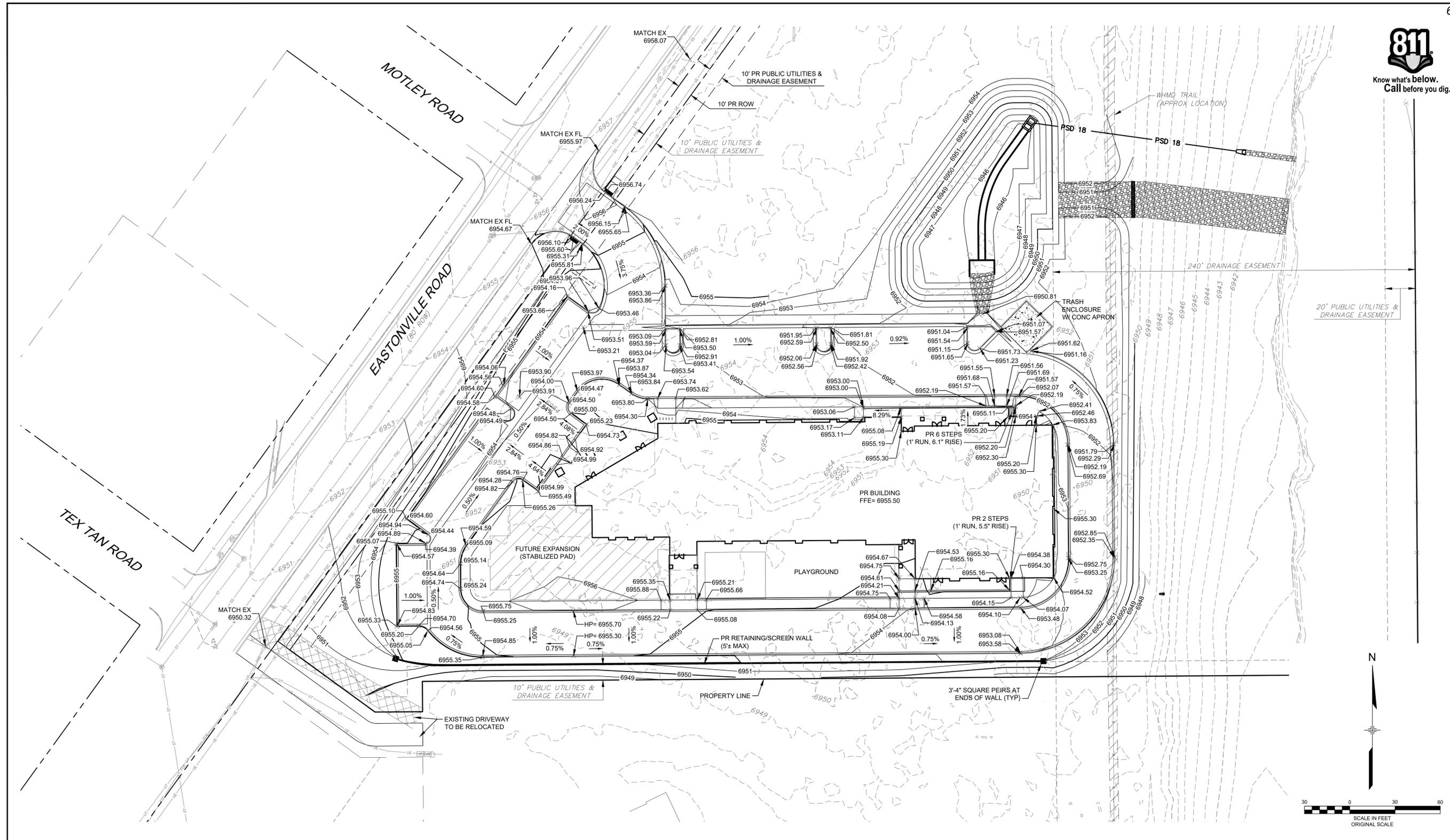
FOR AND ON BEHALF OF
 MATRIX DESIGN GROUP, INC.
 PROJECT No. 18.995.001

LIBERTY TREE ACADEMY

TOWN OF PEYTON, EL PASO COUNTY
 CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-18-023

HORIZONTAL CONTROL PLAN

DESIGNED BY: ACR	SCALE: 1" = 30'	DATE ISSUED: SEPTEMBER 2018	DRAWING No. HC01
DRAWN BY: ACR	HORIZ. 1" = 30'	SHEET 5 OF 29	
CHECKED BY: DRK	VERT. NA		



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No.	DATE	DESCRIPTION	BY
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SHEET KEY	
1	2

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PROJECT No. 18.995.001

LIBERTY TREE ACADEMY

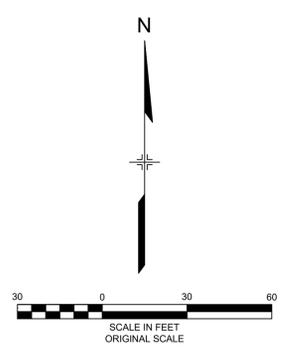
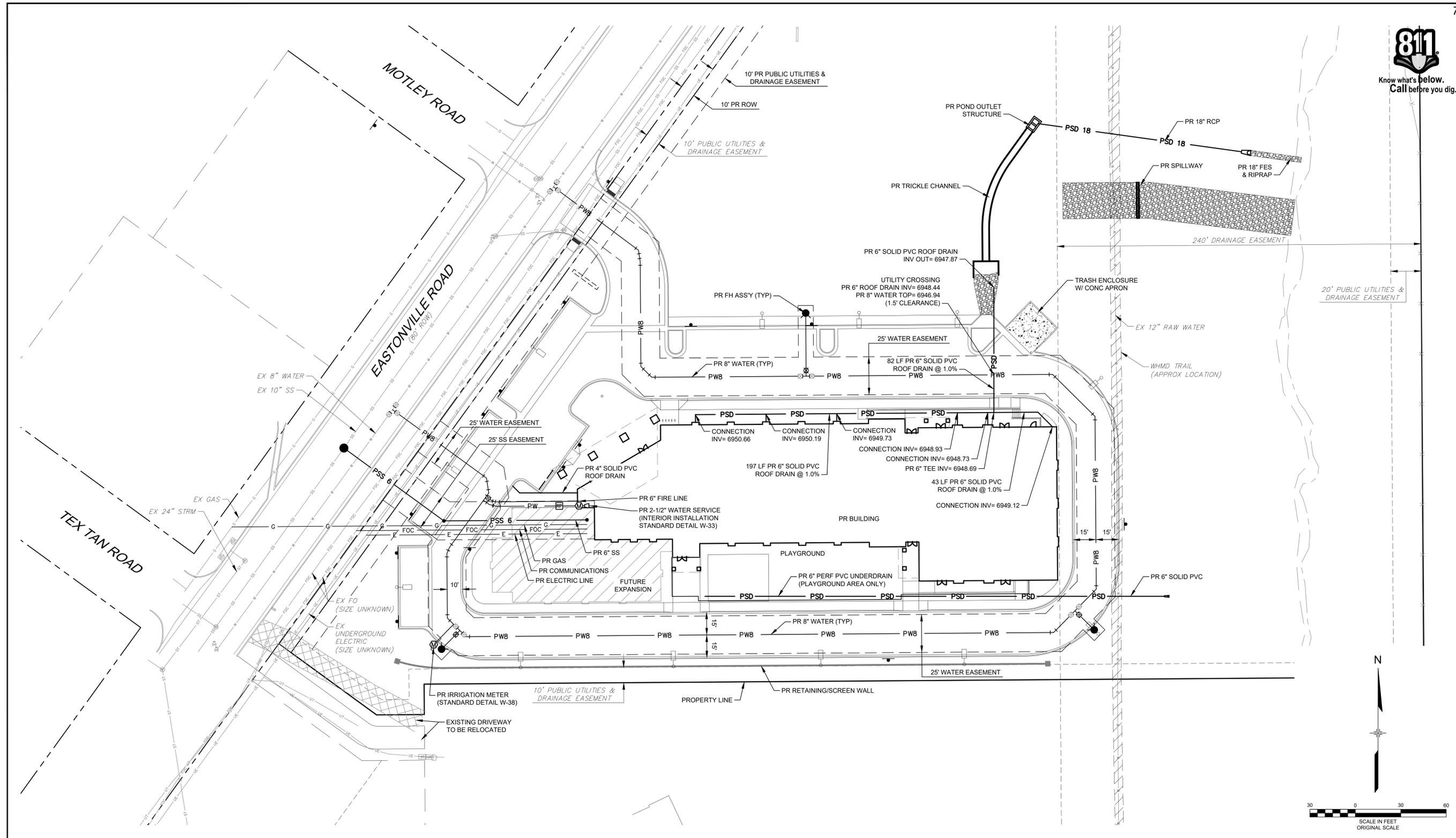
TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-18-023

GRADING PLAN

DESIGNED BY: ACR	SCALE: 1" = 30'	DATE ISSUED: SEPTEMBER 2018	DRAWING No. GR01
DRAWN BY: ACR	HORIZ. NA	SHEET 6 OF 29	
CHECKED BY: DRK	VERT. NA		



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FILE NAME: R:118.995.001 (Liberty Tree Academy)\Dwg\Construction Plans\UT01.dwg			
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SHEET KEY	
1	UT01

PREPARED FOR:
LIBERTY TREE ACADEMY

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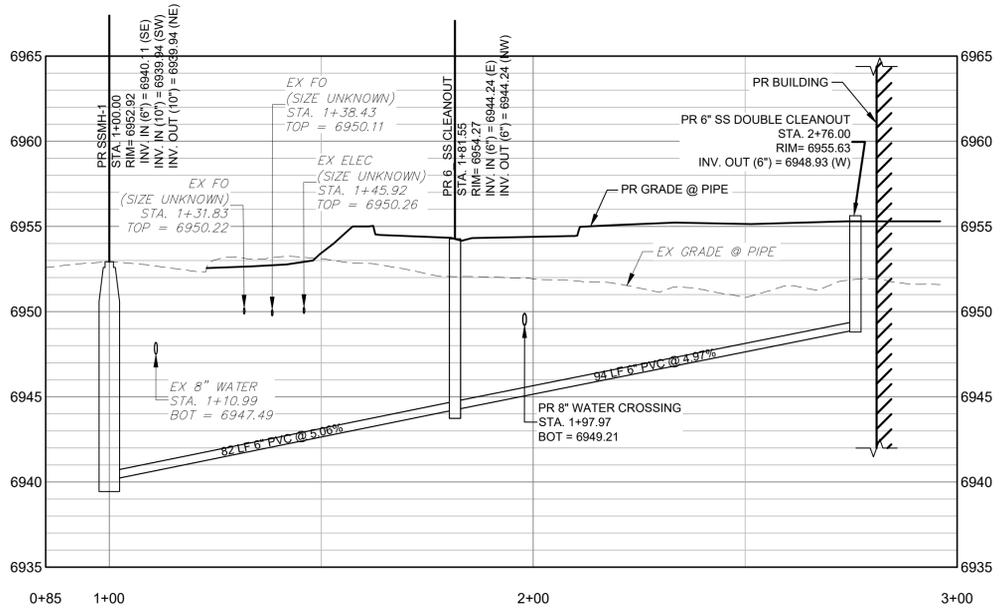
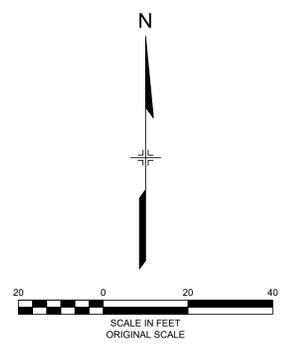
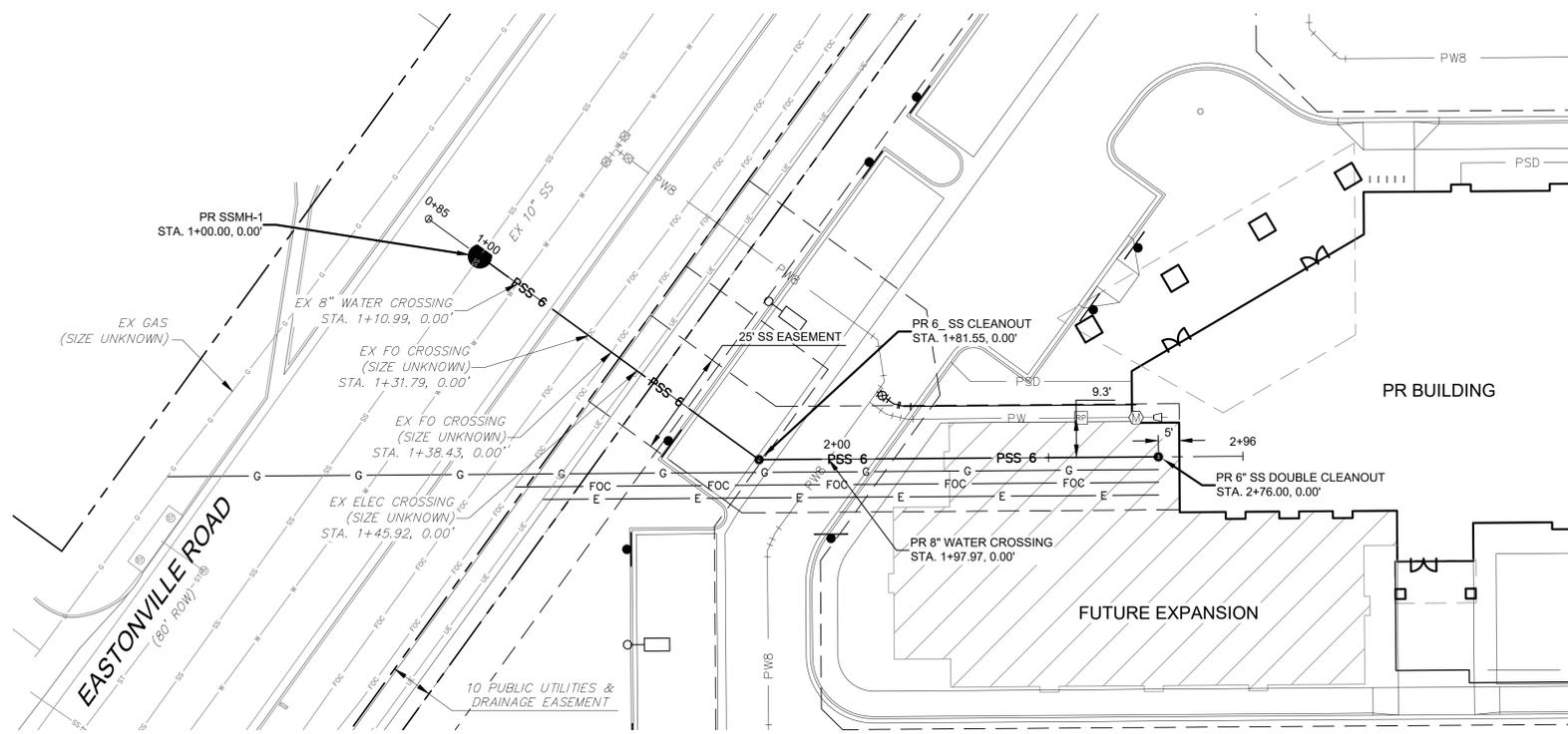
FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 18.995.001

LIBERTY TREE ACADEMY

TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-18-023

OVERALL UTILITY PLAN

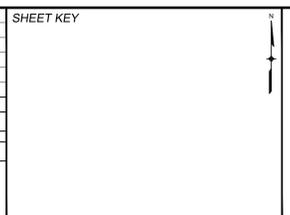
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DRAWN BY: ACR	HORIZ. NA	SHEET 7 OF 29	
CHECKED BY: DRK	VERT. NA		



REFERENCE DRAWINGS

X-995-PR-UTL	
X-995-EX-BASE	
X-995-EX-MAP	
X-995-PR-BASE	
X-995-MDG22x34	

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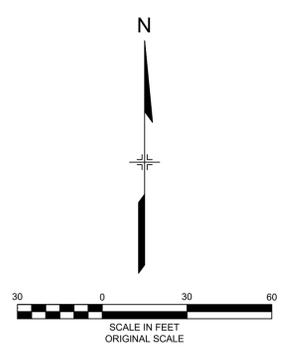
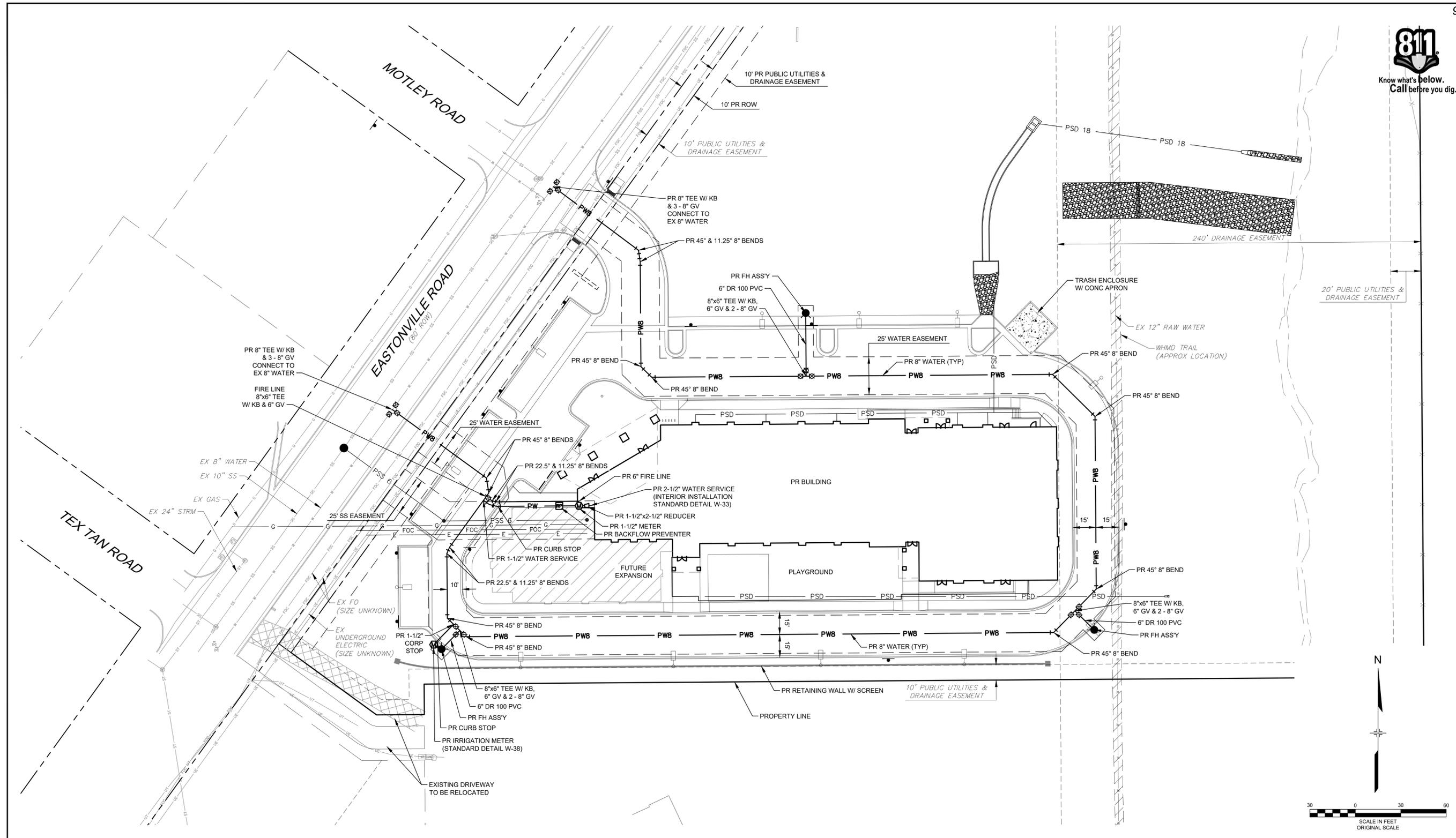
SEAL

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 MATRIX DESIGN GROUP, INC.
 PROJECT No. 18.995.001

LIBERTY TREE ACADEMY
 TOWN OF PEYTON, EL PASO COUNTY
 CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-18-023

SANITARY SEWER PLAN & PROFILE

DESIGNED BY: ACR	SCALE: 1" = 20'	DATE ISSUED: SEPTEMBER 2018	DRAWING No.
DRAWN BY: ACR	HORIZ. 1" = 20'	8 OF 28	SS01
CHECKED BY: DRK	VERT. 1" = 5'		



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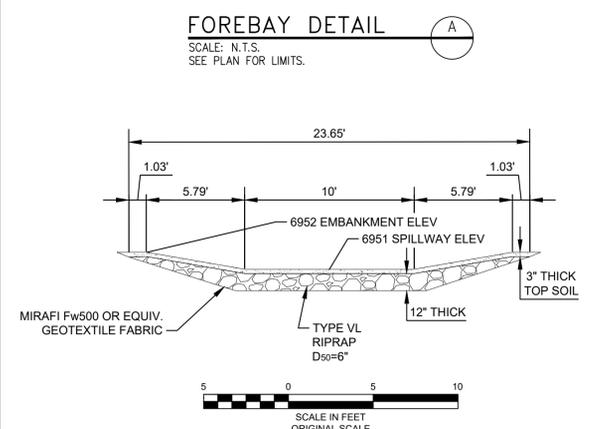
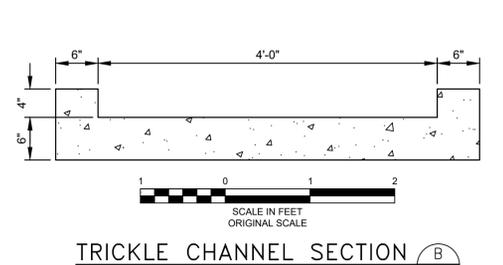
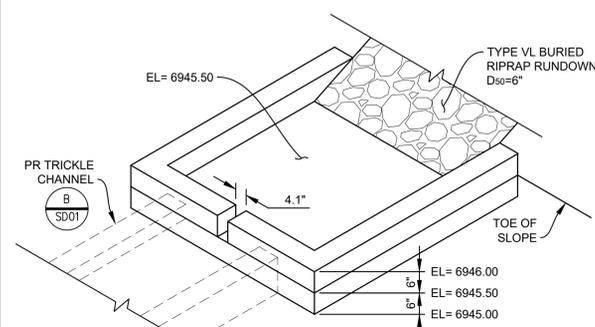
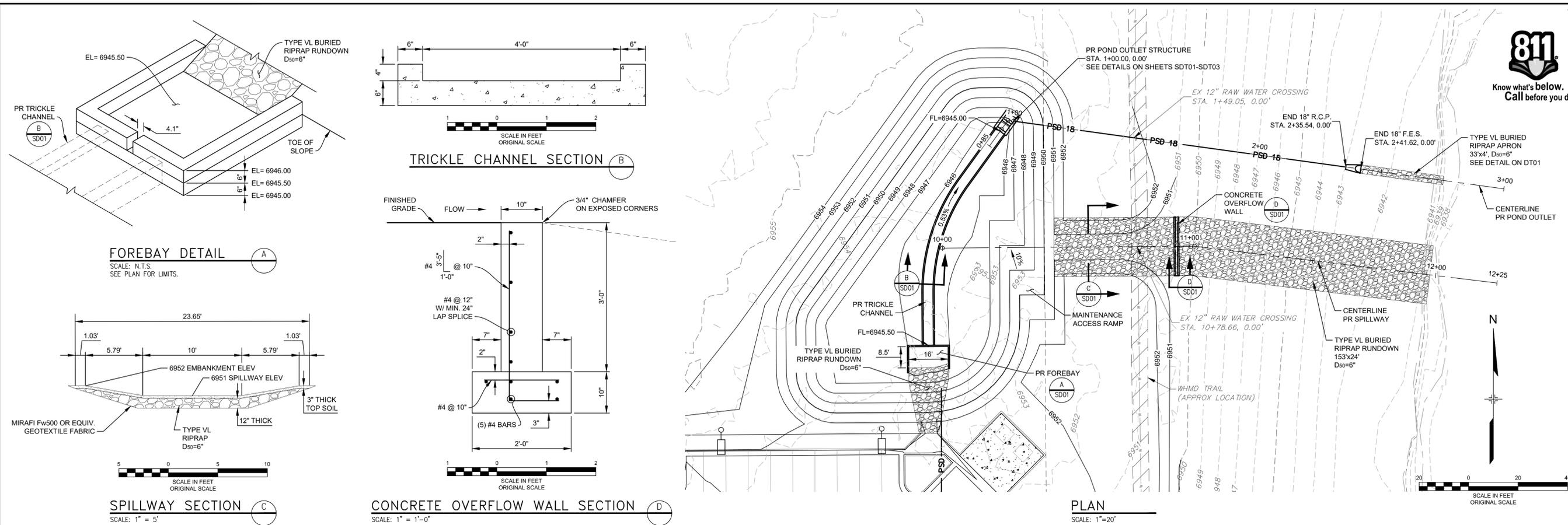
FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 18.995.001

LIBERTY TREE ACADEMY

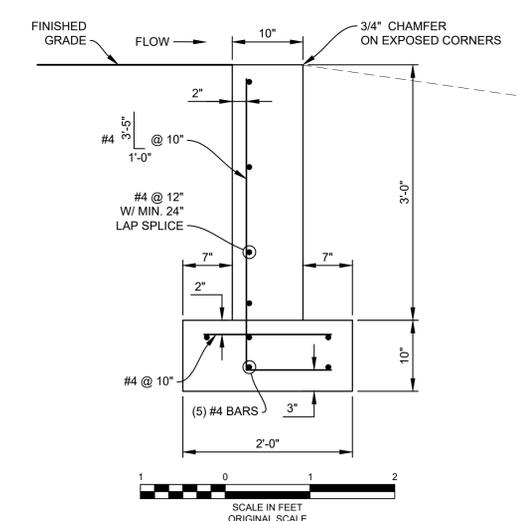
TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-18-023

SITE WATER MAIN PLAN

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DRAWN BY: ACR	HORIZ. NA	SHEET 9 OF 29	
CHECKED BY: DRK	VERT. NA		



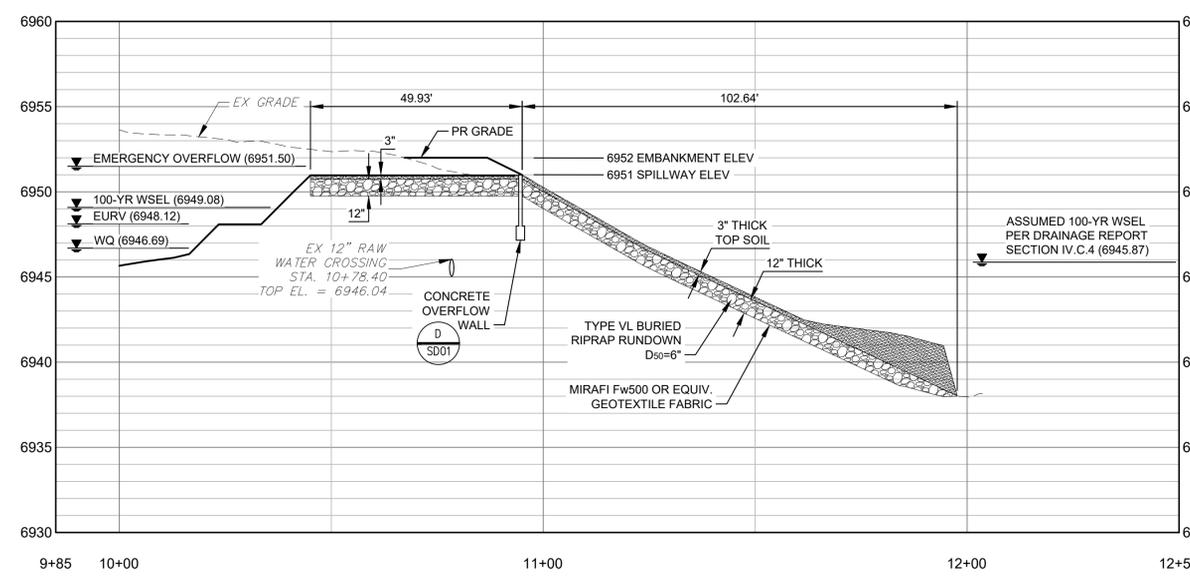
FOREBAY DETAIL (A)
SCALE: N.T.S. SEE PLAN FOR LIMITS.



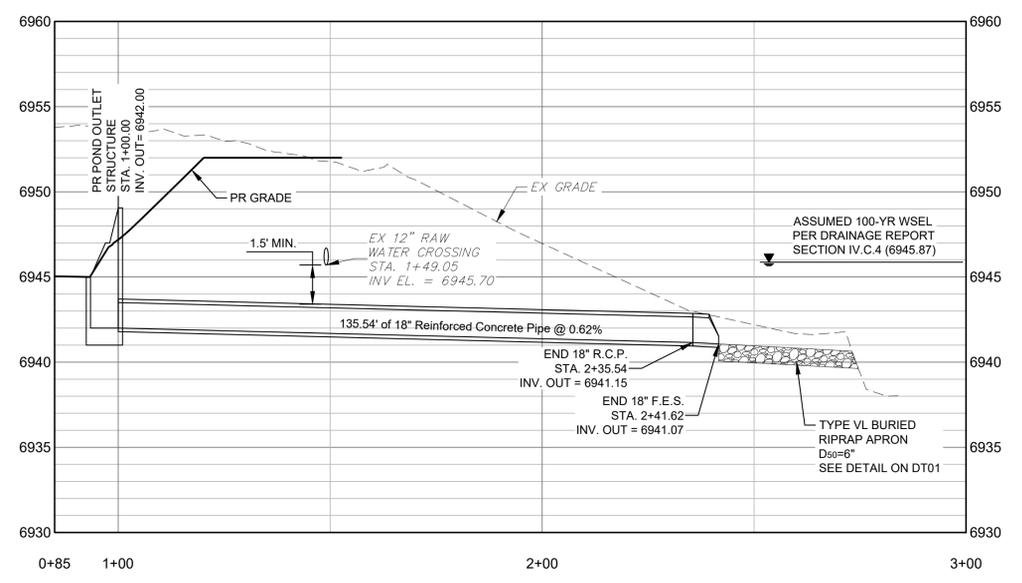
CONCRETE OVERFLOW WALL SECTION (D)
SCALE: 1\"/>



SPILLWAY SECTION (C)
SCALE: 1\"/>



SPILLWAY PROFILE
SCALE: 1\"/>



POND OUTLET PROFILE
SCALE: 1\"/>

REFERENCE DRAWINGS

X:995-MD0222x34
X:995-PR-UTL
X:995-EX-BASE
X:995-EX-MAP
X:995-PR-BASE

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AN EMPLOYEE-OWNED COMPANY

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FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 18.995.001

LIBERTY TREE ACADEMY

TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-18-023

POND OUTLET & SPILLWAY PLAN & PROFILE

DESIGNED BY: ACR	SCALE: HORIZ AS SHOWN	DATE ISSUED: SEPTEMBER 2018	DRAWING No. SD01
CHECKED BY: DRK	VERT. 1" = 5'	SHEET 10 OF 20	

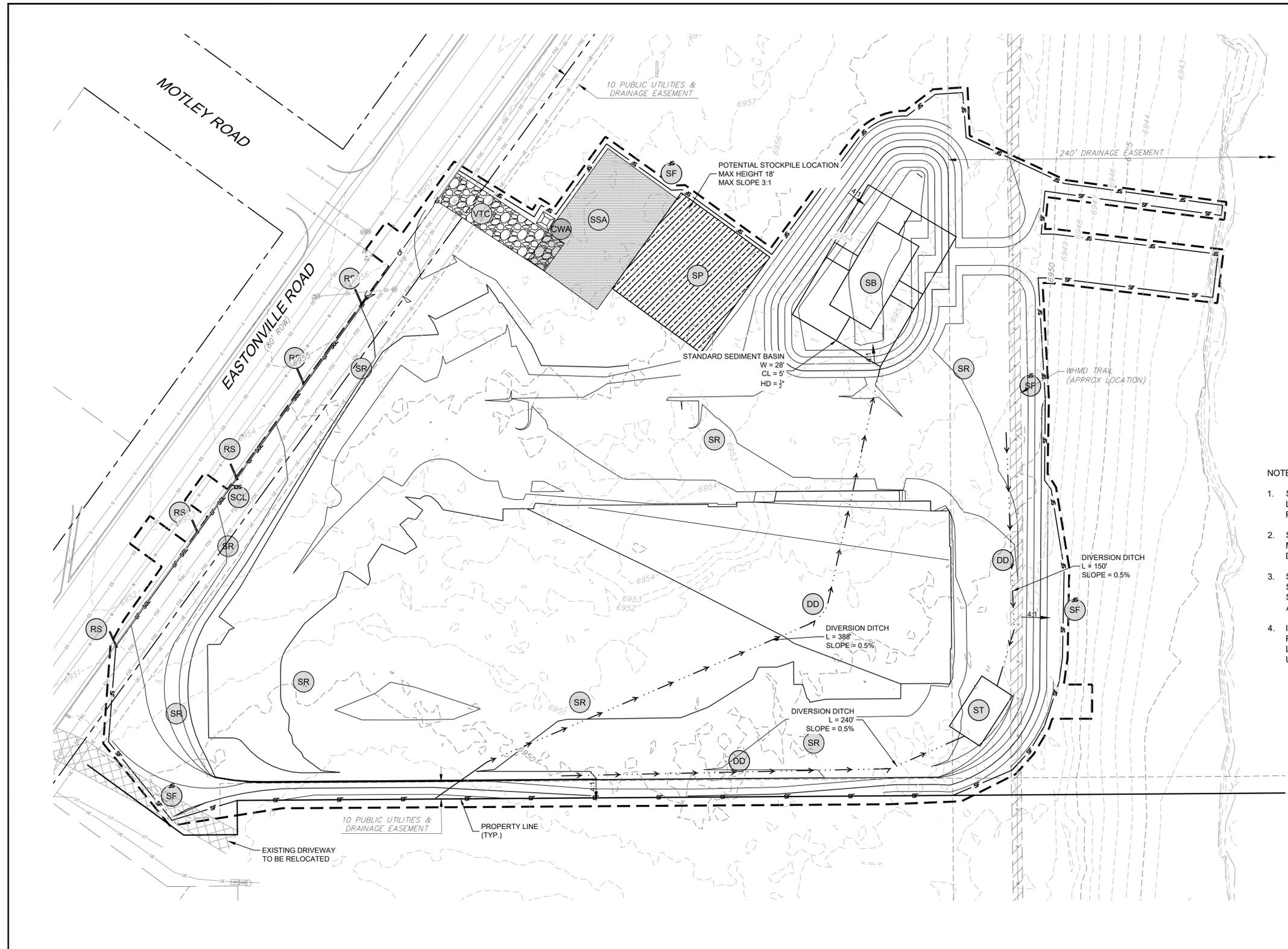
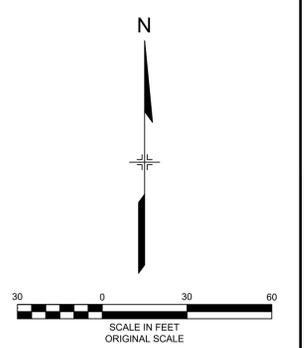


BMP LEGEND

	CWA	CONCRETE WASHOUT AREA
	DD	DIVERSION DITCH
	ECB	EROSION CONTROL BLANKET
	SB	SEDIMENT BASIN
	SCL	SEDIMENT CONTROL LOG
	ST	SEDIMENT TRAP
	SM	SEEDING AND MULCHING
	SF	SILT FENCE
	SSA	STABILIZED STAGING AREA
	SR	SURFACE ROUGHING
	VTC	VEHICLE TRACKING CONTROL
	RS	ROCK SOCK
	CF	CONSTRUCTION FENCE
	LOC	LIMITS OF CONSTRUCTION
		EXISTING 1' CONTOURS
		EXISTING 5' CONTOURS
		PROPOSED 1' CONTOURS
		PROPOSED 5' CONTOURS

NOTES:

- SUGGESTED VTC LOCATIONS ARE SHOWN ON THE PLAN. THE EXACT LOCATIONS MAY VARY DUE TO PHASING, BUT MUST BE PROVIDED AT ALL POINTS OF ACCESS.
- SUGGESTED STOCKPILE LOCATIONS ARE SHOWN ON PLAN. EXACT LOCATIONS MAY VARY WITHIN THE PROJECT LIMITS. SEE THE STOCKPILE MANAGEMENT DETAIL FOR ADDITIONAL INFORMATION.
- SUGGESTED CONCRETE WASHOUT AND STABILIZED STAGING AREAS ARE SHOWN ON PLAN. EXACT LOCATIONS MAY VARY WITHIN THE PROJECT LIMITS. SEE THE CONCRETE WASHOUT AND STABILIZED STAGING AREA DETAIL FOR ADDITIONAL INFORMATION.
- INLET PROTECTION, CURB SOCKS, AND PERIMETER CONTROL TO BE INSTALLED PRIOR TO DEMOLITION. SILT FENCE MAY BE USED AS PERIMETER CONTROL IN LANDSCAPED AREAS. ROCK SOCKS AND CONSTRUCTION FENCING SHOULD BE USED AS PERIMETER CONTROL ON IMPERVIOUS SURFACES.



REFERENCE DRAWINGS			
No.	DATE	DESCRIPTION	BY
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PREPARED BY:
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AN EMPLOYEE-OWNED COMPANY

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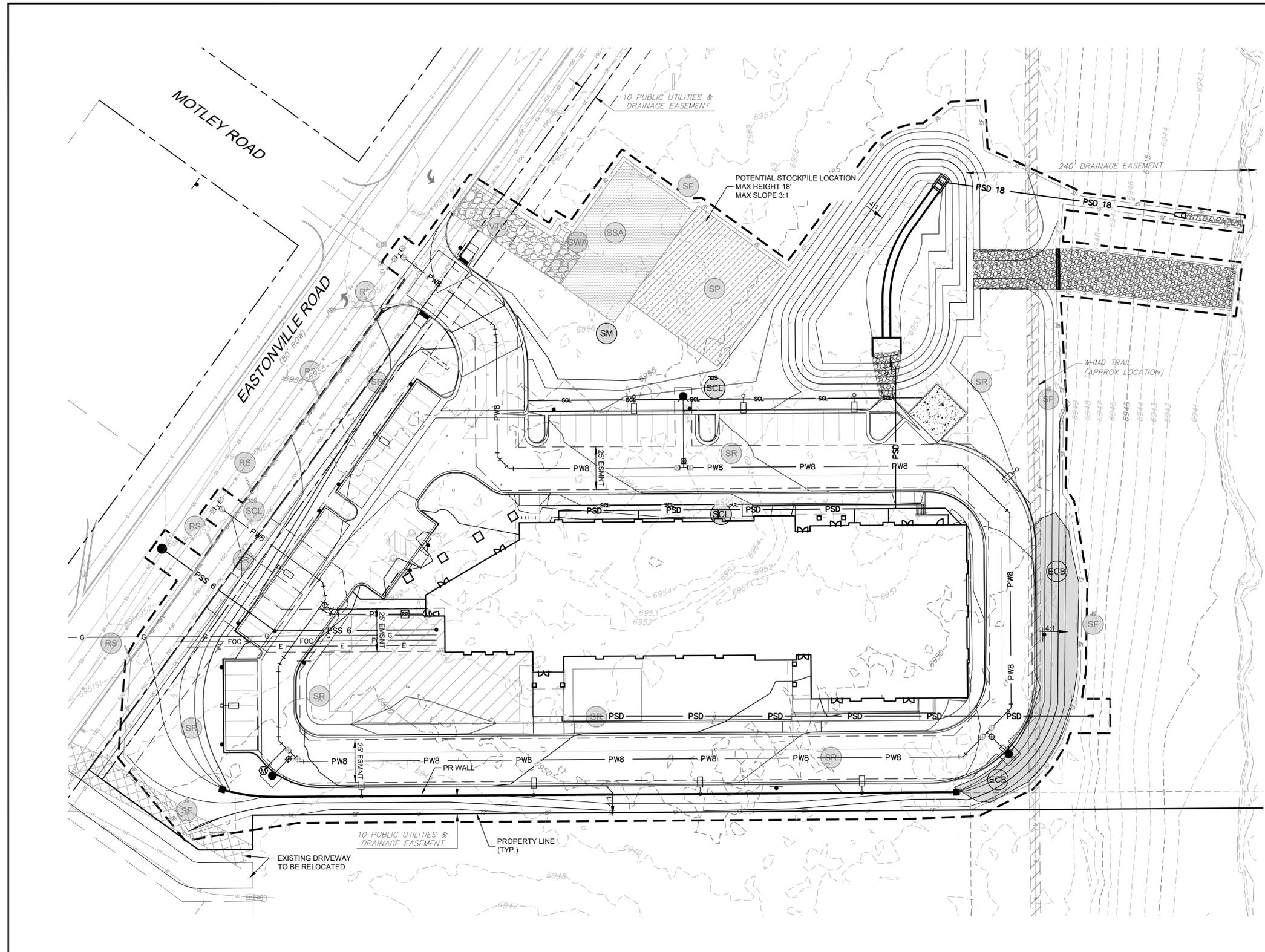
FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 18.995.001

LIBERTY TREE ACADEMY

TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-18-023

INITIAL EROSION CONTROL PLAN

DESIGNED BY: ACR	SCALE: 1" = 30'	DATE ISSUED: SEPTEMBER 2018	DRAWING No. EC01
DRAWN BY: ACR	HORIZ. NA	SHEET 12 OF 29	
CHECKED BY: DRK	VERT. NA		

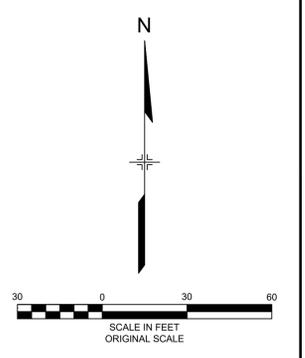


BMP LEGEND

[Symbol]	(CWA)	CONCRETE WASHOUT AREA
[Symbol]	(DD)	DIVERSION DITCH
[Symbol]	(ECB)	EROSION CONTROL BLANKET
[Symbol]	(SB)	SEDIMENT BASIN
[Symbol]	(SCL)	SEDIMENT CONTROL LOG
[Symbol]	(ST)	SEDIMENT TRAP
[Symbol]	(SM)	SEEDING AND MULCHING
[Symbol]	(SF)	SILT FENCE
[Symbol]	(SSA)	STABILIZED STAGING AREA
[Symbol]	(SR)	SURFACE ROUGHING
[Symbol]	(VTC)	VEHICLE TRACKING CONTROL
[Symbol]	(RS)	ROCK SOCKS
[Symbol]	(CF)	CONSTRUCTION FENCE
[Symbol]	(LOC)	LIMITS OF CONSTRUCTION
[Symbol]		EXISTING 1' CONTOURS
[Symbol]		EXISTING 5' CONTOURS
[Symbol]		PROPOSED 1' CONTOURS
[Symbol]		PROPOSED 5' CONTOURS

NOTES:

- SUGGESTED VTC LOCATIONS ARE SHOWN ON THE PLAN. THE EXACT LOCATIONS MAY VARY DUE TO PHASING, BUT MUST BE PROVIDED AT ALL POINTS OF ACCESS.
- SUGGESTED STOCKPILE LOCATIONS ARE SHOWN ON PLAN. EXACT LOCATIONS MAY VARY WITHIN THE PROJECT LIMITS. SEE THE STOCKPILE MANAGEMENT DETAIL FOR ADDITIONAL INFORMATION.
- SUGGESTED CONCRETE WASHOUT AND STABILIZED STAGING AREAS ARE SHOWN ON PLAN. EXACT LOCATIONS MAY VARY WITHIN THE PROJECT LIMITS. SEE THE CONCRETE WASHOUT AND STABILIZED STAGING AREA DETAIL FOR ADDITIONAL INFORMATION.
- INLET PROTECTION, CURB SOCKS, AND PERIMETER CONTROL TO BE INSTALLED PRIOR TO DEMOLITION. SILT FENCE MAY BE USED AS PERIMETER CONTROL IN LANDSCAPED AREAS. ROCK SOCKS AND CONSTRUCTION FENCING SHOULD BE USED AS PERIMETER CONTROL ON IMPERVIOUS SURFACES.



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AN EMPLOYEE-OWNED COMPANY

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FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 18.995.001

LIBERTY TREE ACADEMY

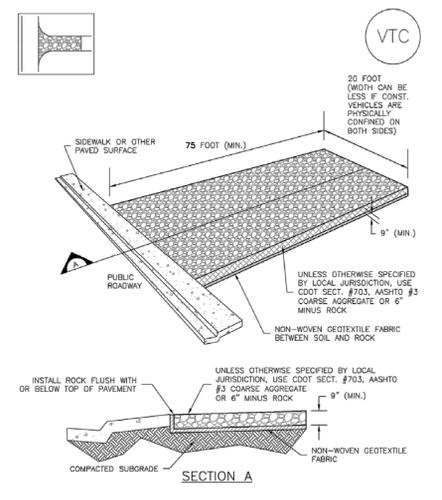
TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-18-023

FINAL EROSION CONTROL PLAN

DESIGNED BY: ACR	SCALE: HORIZ. 1" = 30'	DATE ISSUED: SEPTEMBER 2018	DRAWING No. EC02
DRAWN BY: ACR	VERT. NA	SHEET 13 OF 29	
CHECKED BY: DRK			



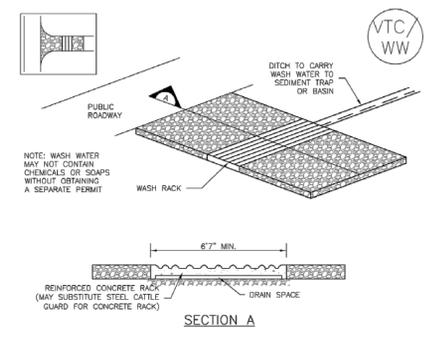
Vehicle Tracking Control (VTC) SM-4



VTC-1. AGGREGATE VEHICLE TRACKING CONTROL

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 VTC-3

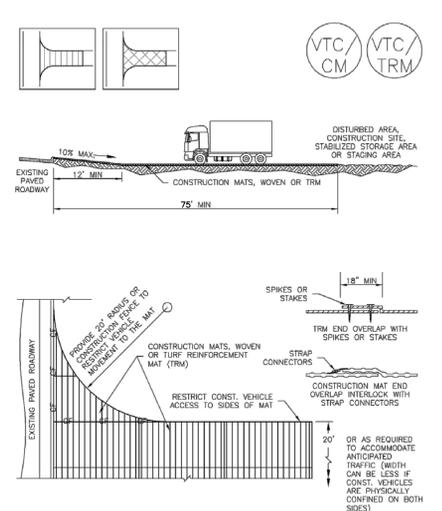
SM-4 Vehicle Tracking Control (VTC)



VTC-2. AGGREGATE VEHICLE TRACKING CONTROL WITH WASH RACK

VTC-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Vehicle Tracking Control (VTC) SM-4



VTC-3. VEHICLE TRACKING CONTROL W/ CONSTRUCTION MAT OR TURF REINFORCEMENT MAT (TRM)

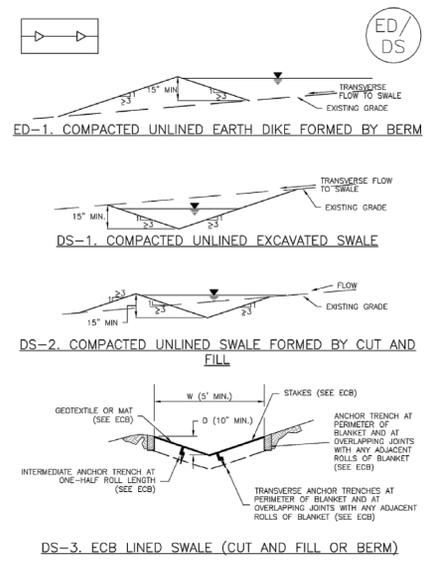
November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 VTC-5

SM-4 Vehicle Tracking Control (VTC)

- STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES**
- SEE PLAN VIEW FOR - LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S) - TYPE OF CONSTRUCTION ENTRANCE(S)/EXIT(S) (WITH/WITHOUT WHEEL WASH, CONSTRUCTION MAT OR TRM).
 - CONSTRUCTION MAT OR TRM STABILIZED CONSTRUCTION ENTRANCES ARE ONLY TO BE USED ON SHORT DURATION PROJECTS (TYPICALLY RANGING FROM A WEEK TO A MONTH) WHERE THERE WILL BE LIMITED VEHICULAR ACCESS.
 - A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT-OF-WAYS.
 - STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
 - A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.
 - UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.
- STABILIZED CONSTRUCTION ENTRANCE/EXIT MAINTENANCE NOTES**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
 - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
 - ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY TO THE STABILIZED ENTRANCE/EXIT TO MAINTAIN A CONSISTENT DEPTH.
 - SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE END OF THE DAY BY SHOVELING OR SWEEPING. SEDIMENT MAY NOT BE WASHED DOWN STORM SEWER DRAINS.
- NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM USFCO STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.
- (DETAILS ADAPTED FROM CITY OF BROOMFIELD, COLORADO, NOT AVAILABLE IN AIRBORN)

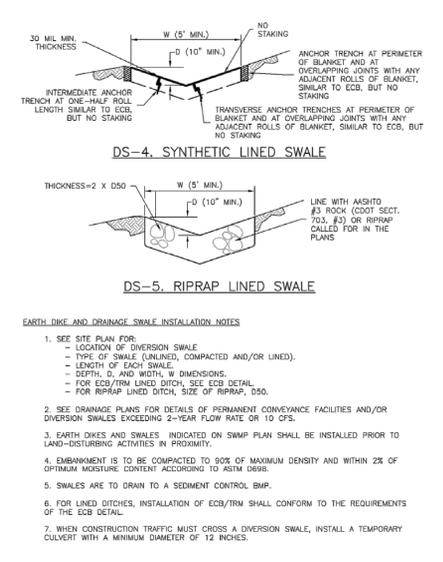
VTC-6 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Earth Dikes and Drainage Swales (ED/DS) EC-10



November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 ED/DS-3

EC-10 Earth Dikes and Drainage Swales (ED/DS)



ED/DS-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Earth Dikes and Drainage Swales (ED/DS) EC-10

- EARTH DIKE AND DRAINAGE SWALE MAINTENANCE NOTES**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
 - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
 - SWALES SHALL REMAIN IN PLACE UNTIL THE END OF CONSTRUCTION, IF APPROVED BY LOCAL JURISDICTION, SWALES MAY BE LEFT IN PLACE.
 - WHEN A SWALE IS REMOVED, THE DISTURBED AREA SHALL BE COVERED WITH TOPSOIL, SEEDING AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.
- NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM USFCO STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.
- (DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO AND THE CITY OF COLORADO SPRING, COLORADO, NOT AVAILABLE IN AIRBORN)

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 ED/DS-5

Mulching (MU) EC-4

Description

Mulching consists of evenly applying straw, hay, shredded wood mulch, rock, bark or compost to disturbed soils and securing the mulch by crimping, tackifiers, netting or other measures. Mulching helps reduce erosion by protecting bare soil from rainfall impact, increasing infiltration, and reducing runoff. Although often applied in conjunction with temporary or permanent seeding, it can also be used for temporary stabilization of areas that cannot be reseeded due to seasonal constraints.

Mulch can be applied either using standard mechanical dry application methods or using hydromulching equipment that hydraulically applies a slurry of water, wood fiber mulch, and often a tackifier.

Appropriate Uses

Use mulch in conjunction with seeding to help protect the seedbed and stabilize the soil. Mulch can also be used as a temporary cover on low to mild slopes to help temporarily stabilize disturbed areas where growing season constraints prevent effective reseeded. Disturbed areas should be properly mulched and tacked, or seeded, mulched and tacked promptly after final grade is reached (typically within no longer than 14 days) on portions of the site not otherwise permanently stabilized.

Standard dry mulching is encouraged in most jurisdictions; however, hydromulching may not be allowed in certain jurisdictions or may not be allowed near waterways.

Do not apply mulch during windy conditions.

Design and Installation

Prior to mulching, surface-roughen areas by rolling with a crimping or punching type roller or by track walking. Track walking should only be used where other methods are impractical because track walking with heavy equipment typically compacts the soil.

A variety of mulches can be used effectively at construction sites. Consider the following:



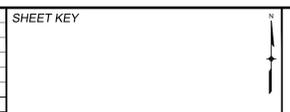
Mulch	
Functions	
Erosion Control	Yes
Sediment Control	Moderate
Site/Material Management	No

June 2012 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 MU-1

REFERENCE DRAWINGS

X:995 MDG22x34

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THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			



PREPARED FOR:

LIBERTY TREE ACADEMY

PREPARED BY:

Matrix DESIGN GROUP

AN EMPLOYEE-OWNED COMPANY

SEAL

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 18.995.001

LIBERTY TREE ACADEMY

TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-18-023

EROSION CONTROL DETAILS

DESIGNED BY: ACR SCALE: NA DATE ISSUED: SEPTEMBER 2018 DRAWING No: ECDT01
 DRAWN BY: ACR HORIZ: NA SHEET: 14 OF 29
 CHECKED BY: DRK VERT: NA



EC-4 Mulching (MU)

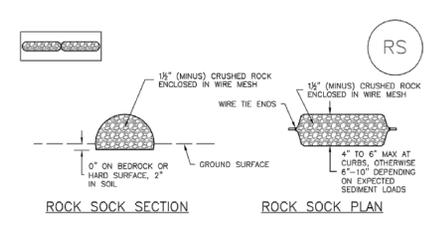
- Clean, weed-free and seed-free cereal grain straw should be applied evenly at a rate of 2 tons per acre and must be tacked or fastened by a method suitable for the condition of the site. Straw mulch must be anchored (and not merely placed) on the surface. This can be accomplished mechanically by crimping or with the aid of tackifiers or nets. Anchoring with a crimping implement is preferred, and is the recommended method for areas flatter than 3:1. Mechanical crimpers must be capable of tucking the long mulch fibers into the soil to a depth of 3 inches without cutting them. An agricultural disk, while not an ideal substitute, may work if the disk blades are dull or blunted and set vertically; however, the frame may have to be weighted to afford proper soil penetration.
- Grass hay may be used in place of straw; however, because hay is comprised of the entire plant including seed, mulching with hay may seed the site with non-native grass species which might in turn out-compete the native seed. Alternatively, native species of grass hay may be purchased, but can be difficult to find and are more expensive than straw. Purchasing and utilizing a certified weed-free straw is an easier and less costly mulching method. When using grass hay, follow the same guidelines as for straw (provided above).
- On small areas sheltered from the wind and heavy runoff, spraying a tackifier on the mulch is satisfactory for holding it in place. For steep slopes and special situations where greater control is needed, erosion control blankets anchored with stakes should be used instead of mulch.
- Hydraulic mulching consists of wood cellulose fibers mixed with water and a tackifying agent and should be applied at a rate of no less than 1,500 pounds per acre (1,425 lbs of fibers mixed with at least 75 lbs of tackifier) with a hydraulic mulcher. For steeper slopes, up to 2000 pounds per acre may be required for effective hydroseeding. Hydromulch typically requires up to 24 hours to dry; therefore, it should not be applied immediately prior to inclement weather. Application to roads, waterways and existing vegetation should be avoided.
- Erosion control mats, blankets, or nets are recommended to help stabilize steep slopes (generally 3:1 and steeper) and waterways. Depending on the product, these may be used alone or in conjunction with grass or straw mulch. Normally, use of these products will be restricted to relatively small areas. Biodegradable mats made of straw and jute, straw-coconut, coconut fiber, or excelsior can be used instead of mulch. (See the ECM/TRM BMP for more information.)
- Some tackifiers or binders may be used to anchor mulch. Check with the local jurisdiction for allowed tackifiers. Manufacturer's recommendations should be followed at all times. (See the Soil Binder BMP for more information on general types of tackifiers.)
- Rock can also be used as mulch. It provides protection of exposed soils to wind and water erosion and allows infiltration of precipitation. An aggregate base course can be spread on disturbed areas for temporary or permanent stabilization. The rock mulch layer should be thick enough to provide full coverage of exposed soil on the area it is applied.

Maintenance and Removal

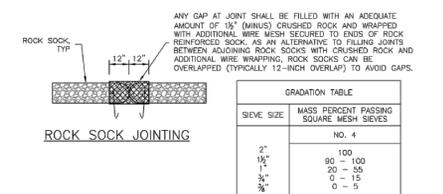
After mulching, the bare ground surface should not be more than 10 percent exposed. Reapply mulch, as needed, to cover bare areas.

MU-2 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 June 2012

SC-5 Rock Sock (RS)



ROCK SOCK SECTION ROCK SOCK PLAN



ROCK SOCK JOINTING

ANY GAP AT JOINT SHALL BE FILLED WITH AN ADEQUATE AMOUNT OF 1/2" (MINUS) CRUSHED ROCK AND WRAPPED WITH ADDITIONAL WIRE MESH SECURED TO ENDS OF ROCK REINFORCED SOCK, AS AN ALTERNATIVE TO FILLING JOINTS BETWEEN ADJOINING ROCK SOCKS WITH CRUSHED ROCK AND ADDITIONAL WIRE WRAPPING, ROCK SOCKS CAN BE OVERLAPPED (TYPICALLY 12-INCH OVERLAP) TO AVOID GAPS.

GRADATION TABLE	
SIEVE SIZE	MASS PERCENT PASSING SQUARE MESH SIEVES
NO. 4	100
2"	90 - 100
1 1/2"	20 - 50
3/4"	0 - 15
0 - 5	0 - 5

MATCHES SPECIFICATIONS FOR NO. 4 COARSE AGGREGATE FOR CONCRETE PER ASTM 443. ALL ROCK SHALL BE FRACTURED FACE, ALL SIDES.

ROCK SOCK INSTALLATION NOTES

- SEE PLAN VIEW FOR: -LOCATION(S) OF ROCK SOCKS.
- CRUSHED ROCK SHALL BE 1/2" (MINUS) IN SIZE WITH A FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON THIS SHEET (1/2" MINUS).
- WIRE MESH SHALL BE FABRICATED OF 10 GAGE POLYURETHANE MESH, OR EQUIVALENT, WITH A MAXIMUM OPENING OF 1/2"; RECOMMENDED MINIMUM ROLL WIDTH OF 48".
- WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT 6" CENTERS ALONG ALL JOINTS AND AT 2" CENTERS ON ENDS OF SOCKS.
- SOME MUNICIPALITIES MAY ALLOW THE USE OF FILTER FABRIC AS AN ALTERNATIVE TO WIRE MESH FOR THE ROCK ENCLOSURE.

RS-1. ROCK SOCK PERIMETER CONTROL

RS-2 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Rock Sock (RS) SC-5

ROCK SOCK MAINTENANCE NOTES

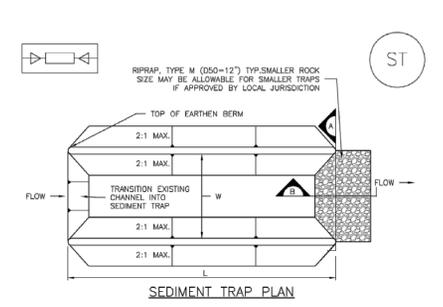
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED, OR DAMAGED BEYOND REPAIR.
- SEDIMENT ACCUMULATED UPSTREAM OF ROCK SOCKS SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP. TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 1/3 OF THE HEIGHT OF THE ROCK SOCK.
- ROCK SOCKS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
- WHEN ROCK SOCKS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

(DETAILS ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF ALBUQUA, COLORADO, NOT AVAILABLE IN ALBUQUA)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

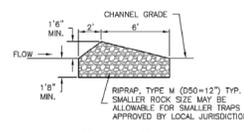
November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 RS-3

SC-8 Sediment Trap (ST)



SEDIMENT TRAP PLAN

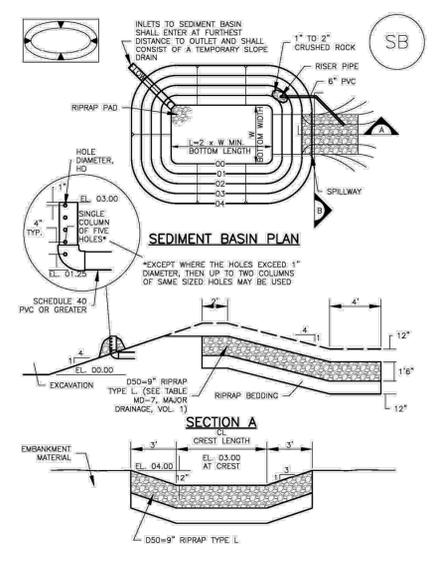
SECTION A



SECTION B ST-1. SEDIMENT TRAP

ST-2 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Sediment Basin (SB) SC-7



SEDIMENT BASIN PLAN

SECTION A

August 2013 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SB-5

SC-7 Sediment Basin (SB)

TABLE SB-1. SIZING INFORMATION FOR STANDARD SEDIMENT BASIN

Upstream Drainage Area (rounded to nearest acre), (ac)	Basin Bottom Width (W), (ft)	Spillway Crest Length (CL), (ft)	Hole Diameter (D), (ft)
1	12 1/2	2	1/2
2	21	3	3/4
3	28	5	1
4	33 1/2	6	1 1/4
5	38 1/2	8	1 1/2
6	43	9	1 3/4
7	47 1/2	11	1 3/4
8	51	12	1 3/4
9	55	13	1 3/4
10	58 1/2	15	1 3/4
11	61	16	1 3/4
12	64	18	1 3/4
13	67 1/2	19	1 3/4
14	70 1/2	21	1 3/4
15	73 1/2	22	1 3/4

SEDIMENT BASIN INSTALLATION NOTES

- SEE PLAN VIEW FOR: -LOCATION OF SEDIMENT BASIN. -TYPE OF BASIN (STANDARD BASIN OR NONSTANDARD BASIN). -FOR STANDARD BASIN, BOTTOM WIDTH W, CREST LENGTH CL, AND HOLE DIAMETER, HD. -FOR NONSTANDARD BASIN, SEE CONSTRUCTION DRAWINGS FOR DESIGN OF BASIN INCLUDING RISER HEIGHT H, NUMBER OF COLUMNS N, HOLE DIAMETER HD AND PIPE DIAMETER D.
- FOR STANDARD BASIN, BOTTOM DIMENSION MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED.
- SEDIMENT BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER LAND-DISTURBING ACTIVITY THAT RELIES ON OR BAINS AS A STORMWATER CONTROL.
- EMBANKMENT MATERIAL SHALL CONSIST OF SOIL FREE OF DEBRIS, ORGANIC MATERIAL, AND ROCKS OR CONCRETE GREATER THAN 3 INCHES AND SHALL HAVE A MINIMUM OF 15 PERCENT BY WEIGHT PASSING THE NO. 200 SIEVE.
- EMBANKMENT MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698.
- PIPE SO4 40 OR GREATER SHALL BE USED.
- THE DETAILS SHOWN ON THESE SHEETS PERTAIN TO STANDARD SEDIMENT BASIN(S) FOR DRAINAGE AREAS LESS THAN 15 ACRES. SEE CONSTRUCTION DRAWINGS FOR EMBANKMENT, STORAGE VOLUME, SPILLWAY, OUTLET, AND OUTLET PROTECTION DETAILS FOR ANY SEDIMENT BASIN(S) THAT HAVE BEEN INDIVIDUALLY DESIGNED FOR DRAINAGE AREAS LARGER THAN 15 ACRES.

SB-6 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 August 2013

Sediment Basin (SB) SC-7

SEDIMENT BASIN MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- SEDIMENT ACCUMULATED IN BASIN SHALL BE REMOVED AS NEEDED TO MAINTAIN BMP EFFECTIVENESS. TYPICALLY WHEN SEDIMENT DEPTH REACHES ONE FOOT (E.I. TWO FEET BELOW THE SPILLWAY CREST).
- SEDIMENT BASINS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS ACCEPTED BY THE LOCAL JURISDICTION.
- WHEN SEDIMENT BASINS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

August 2013 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SB-7

Sediment Trap (ST) SC-8

SEDIMENT TRAP INSTALLATION NOTES

- SEE PLAN VIEW FOR: -LOCATION, LENGTH AND WIDTH OF SEDIMENT TRAP.
- ONLY USE FOR DRAINAGE AREAS LESS THAN 1 ACRE.
- SEDIMENT TRAPS SHALL BE INSTALLED PRIOR TO ANY UPGRADED LAND-DISTURBING ACTIVITIES.
- SEDIMENT TRAP BERM SHALL BE CONSTRUCTED FROM MATERIAL FROM EXCAVATION. THE BERM SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698.
- SEDIMENT TRAP OUTLET TO BE CONSTRUCTED OF RIPRAP, TYPE M (D50=12") TYP. SMALLER ROCK SIZE MAY BE ALLOWABLE FOR SMALLER TRAPS IF APPROVED BY LOCAL JURISDICTION.
- THE TOP OF THE EARTHEN BERM SHALL BE A MINIMUM OF 6" HIGHER THAN THE TOP OF THE RIPRAP OUTLET STRUCTURE.
- THE ENDS OF THE RIPRAP OUTLET STRUCTURE SHALL BE A MINIMUM OF 6" HIGHER THAN THE CENTER OF THE OUTLET STRUCTURE.

SEDIMENT TRAP MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- REMOVE SEDIMENT ACCUMULATED IN TRAP AS NEEDED TO MAINTAIN THE FUNCTIONALITY OF THE BMP. TYPICALLY WHEN THE SEDIMENT DEPTH REACHES 1/3 OF THE HEIGHT OF THE RIPRAP OUTLET.
- SEDIMENT TRAPS SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
- WHEN SEDIMENT TRAPS ARE REMOVED, THE DISTURBED AREA SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN ALBUQUA)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 ST-3

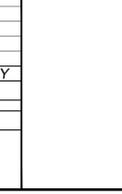
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SHEET KEY



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LIBERTY TREE ACADEMY

PREPARED BY:
Matrix DESIGN GROUP
AN EMPLOYEE-OWNED COMPANY

SEAL

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 18.995.001

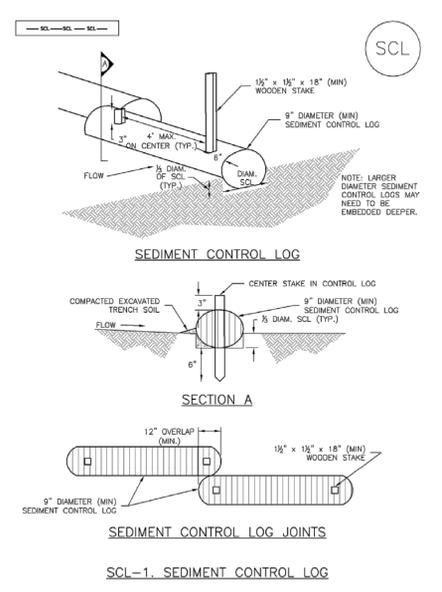
LIBERTY TREE ACADEMY
TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-18-023

EROSION CONTROL DETAILS

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DRAWN BY: ACR HORIZ: NA SHEET: 15 OF 29 ECDT02
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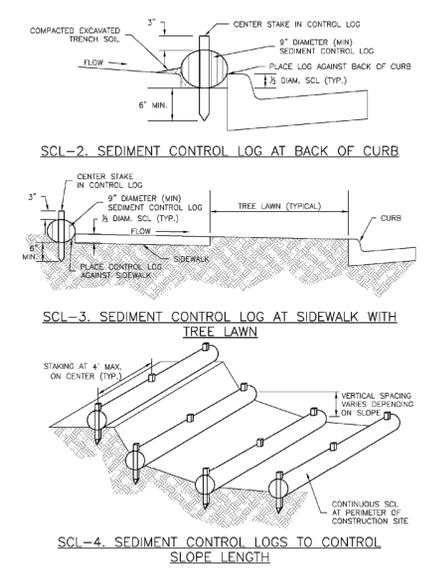


Sediment Control Log (SCL) SC-2



November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SCL-3

SC-2 Sediment Control Log (SCL)



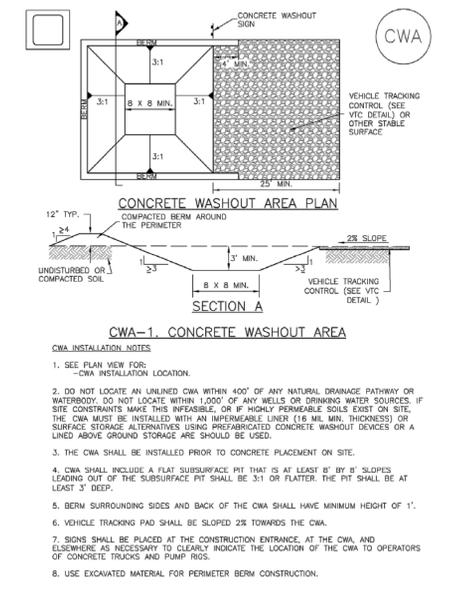
November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SCL-4

Sediment Control Log (SCL) SC-2

- SEDIMENT CONTROL LOG INSTALLATION NOTES**
- SEE PLAN VIEW FOR LOCATION AND LENGTH OF SEDIMENT CONTROL LOGS.
 - SEDIMENT CONTROL LOGS THAT ACT AS A PERIMETER CONTROL SHALL BE INSTALLED PRIOR TO ANY UPGRADED LAND-DISTURBING ACTIVITIES.
 - SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCELISOR OR COCONUT FIBER, AND SHALL BE FREE OF ANY NONKICK WEED SEEDS OR OBJECTS INCLUDING RIPS, HOLES AND OBVIOUS WEAR.
 - SEDIMENT CONTROL LOGS MAY BE USED AS SMALL CHECK DAMS IN DITCHES AND SWALES. HOWEVER, THEY SHOULD NOT BE USED IN PERENNIAL STREAMS OR HIGH VELOCITY DRAINAGE WAYS.
 - IF IT IS RECOMMENDED THAT SEDIMENT CONTROL LOGS BE TRENCHED INTO THE GROUND TO A DEPTH OF APPROXIMATELY 1/3 OF THE DIAMETER OF THE LOG. IF TRENCHING TO THIS DEPTH IS NOT FEASIBLE AND/OR DESIRABLE (SHORT TERM INSTALLATION WITH DESIRE NOT TO DAMAGE LANDSCAPE) A LESSER TRENCHING DEPTH MAY BE ACCEPTABLE WITH MORE ROBUST STAKING.
 - THE UPHILL SIDE OF THE SEDIMENT CONTROL LOG SHALL BE BACKFILLED WITH SOIL THAT IS FREE OF ROCKS AND DEBRIS. THE SOIL SHALL BE TIGHTLY COMPACTED INTO THE SHAPE OF A RIGHT TRIANGLE USING A SHOVEL OR WEIGHTED LAWN ROLLER.
 - FOLLOW MANUFACTURERS' GUIDANCE FOR STAKING. IF MANUFACTURERS' INSTRUCTIONS DO NOT SPECIFY SPACING, STAKES SHALL BE PLACED ON 4' CENTERS AND EMBEDDED A MINIMUM OF 8" INTO THE GROUND. 3" OF THE STAKE SHALL PROTRUDE FROM THE TOP OF THE LOG. STAKES THAT ARE BROKEN FROM INSTALLATION SHALL BE REPLACED.
- SEDIMENT CONTROL LOG MAINTENANCE NOTES**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
 - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
 - SEDIMENT ACCUMULATED UPSTREAM OF SEDIMENT CONTROL LOG SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP. TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 1/3 OF THE HEIGHT OF THE SEDIMENT CONTROL LOG.
 - SEDIMENT CONTROL LOG SHALL BE REMOVED AT THE END OF CONSTRUCTION, IF DISTURBED AREAS EXIST AFTER REMOVAL, THEY SHALL BE COVERED WITH TOP SOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.
- (DETAILS ADAPTED FROM TOWN OF PARKER, COLORADO, JEFFERSON COUNTY, COLORADO, DOUGLAS COUNTY, COLORADO, AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)
- NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.**

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SCL-5

Concrete Washout Area (CWA) MM-1



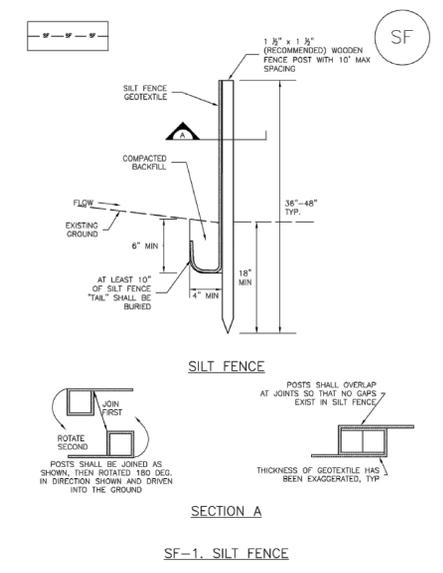
November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 CWA-3

MM-1 Concrete Washout Area (CWA)

- CWA MAINTENANCE NOTES**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
 - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
 - THE CWA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS ACCUMULATED IN PIT, SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2'.
 - CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.
 - THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
 - WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.
- (DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO AND THE CITY OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)
- NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.**

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 CWA-4

Silt Fence (SF) SC-1



November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SF-3

SC-1 Silt Fence (SF)

- SILT FENCE INSTALLATION NOTES**
- SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING. SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2-5 FT) FROM THE TOE OF THE SLOPE TO ALLOW ROOM FOR PONDING AND DEPOSITION.
 - A UNIFORM 6" X 4" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT FENCE INSTALLATION DEVICE. NO ROPS, GRADERS, SHOVELS, OR SIMILAR EQUIPMENT SHALL BE USED.
 - COMPACT ANCHOR TRENCH BY HAND WITH A "LUMPING JACK" OR BY WHEEL ROLLING. COMPACTOR SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.
 - SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD BE NO NOTICEABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES.
 - SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES USING 1" HEAVY DUTY STAPLES OR NAILS WITH 1" HEADS. STAPLES AND NAILS SHOULD BE PLACED 3" ALONG THE FABRIC DOWN THE STAKE.
 - AT THE END OF A RUN OF SILT FENCE ALONG A CONTOUR, THE SILT FENCE SHOULD BE TURNED PERPENDICULAR TO THE CONTOUR TO CREATE A "J-HOOK," THE "J-HOOK" EXTENDING PERPENDICULAR TO THE CONTOUR SHOULD BE OF SUFFICIENT LENGTH TO KEEP RUNOFF FROM FLOWING AROUND THE END OF THE SILT FENCE (TYPICALLY 10' - 20').
 - SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- SILT FENCE MAINTENANCE NOTES**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
 - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
 - SEDIMENT ACCUMULATED UPSTREAM OF THE SILT FENCE SHALL BE REMOVED AS NEEDED TO MAINTAIN THE FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 1/3.
 - REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING, TEARING, OR COLLAPSE.
 - SILT FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION, OR IS REPLACED BY AN EQUIVALENT PERIMETER SEDIMENT CONTROL BMP.
 - WHEN SILT FENCE IS REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.
- (DETAILS ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, NOT AVAILABLE IN AUTOCAD)
- NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.**

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SF-4

REFERENCE DRAWINGS
X:995 MDG22x34

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SHEET KEY



PREPARED FOR:
LIBERTY TREE ACADEMY

PREPARED BY:
Matrix DESIGN GROUP
AN EMPLOYEE-OWNED COMPANY

SEAL

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 18.995.001

LIBERTY TREE ACADEMY

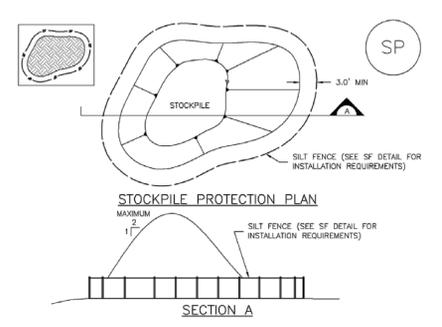
TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-18-023

EROSION CONTROL DETAILS

DESIGNED BY:	ACR	SCALE:	DATE ISSUED:	SEPTEMBER 2018	DRAWING No.
DRAWN BY:	ACR	HORIZ.	NA		ECDT03
CHECKED BY:	DRK	VERT.	NA	SHEET	16 OF 29



Stockpile Management (SP) MM-2



SP-1. STOCKPILE PROTECTION
STOCKPILE PROTECTION INSTALLATION NOTES
1. SEE PLAN VIEW FOR:
-LOCATION OF STOCKPILES.
-TYPE OF STOCKPILE PROTECTION.
2. INSTALL PERIMETER CONTROLS IN ACCORDANCE WITH THEIR RESPECTIVE DESIGN DETAILS. SILT FENCE IS SHOWN IN THE STOCKPILE PROTECTION DETAILS; HOWEVER, OTHER TYPES OF PERIMETER CONTROLS INCLUDING SEDIMENT CONTROL LOGS OR ROCK SOCKS MAY BE SUITABLE IN SOME CIRCUMSTANCES. CONSIDERATIONS FOR DETERMINING THE APPROPRIATE TYPE OF PERIMETER CONTROL FOR A STOCKPILE INCLUDE WHETHER THE STOCKPILE IS LOCATED ON A PERVIOUS OR IMPERVIOUS SURFACE, THE RELATIVE HEIGHTS OF THE PERIMETER CONTROL AND STOCKPILE, THE ABILITY OF THE PERIMETER CONTROL TO CONTAIN THE STOCKPILE WITHOUT FAILING IN THE EVENT THAT MATERIAL FROM THE STOCKPILE SHIFTS OR SLUMPS AGAINST THE PERIMETER, AND OTHER FACTORS.
3. STABILIZE THE STOCKPILE SURFACE WITH SURFACE ROUGHENING, TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS OR SOIL BINDERS. SOILS STOCKPILED FOR AN EXTENDED PERIOD (TYPICALLY FOR MORE THAN 60 DAYS) SHOULD BE SEEDED AND MULCHED WITH A TEMPORARY GRASS COVER ONCE THE STOCKPILE IS PLACED (TYPICALLY WITHIN 14 DAYS). USE OF MULCH ONLY OR A SOIL BINDER IS ACCEPTABLE IF THE STOCKPILE WILL BE IN PLACE FOR A MORE LIMITED TIME PERIOD (TYPICALLY 30-60 DAYS).
4. FOR TEMPORARY STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER EROSION CONTROL MEASURES INCLUDING PERIMETER CONTROL ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.

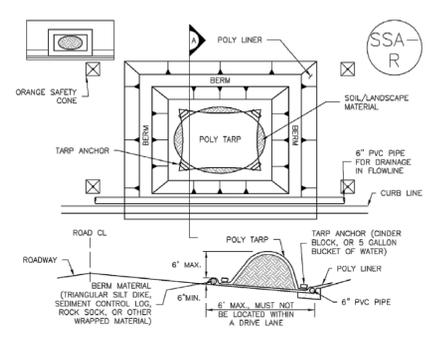
November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SP-3

MM-2 Stockpile Management (SM)

STOCKPILE PROTECTION MAINTENANCE NOTES
1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
STOCKPILE PROTECTION MAINTENANCE NOTES
4. IF PERIMETER PROTECTION MUST BE MOVED TO ACCESS SOIL STOCKPILE, REPLACE PERIMETER CONTROLS BY THE END OF THE WORKDAY.
5. STOCKPILE PERIMETER CONTROLS CAN BE REMOVED ONCE ALL THE MATERIAL FROM THE STOCKPILE HAS BEEN USED.
(DETAILS ADAPTED FROM PARKER, COLORADO, NOT AVAILABLE IN AURORA)
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

SP-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Stockpile Management (SP) MM-2



SP-2. MATERIALS STAGING IN ROADWAY
MATERIALS STAGING IN ROADWAYS INSTALLATION NOTES
1. SEE PLAN VIEW FOR:
-LOCATION OF MATERIAL STAGING AREA(S).
-CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.
2. MATERIALS MUST BE INSTALLED PRIOR TO EXCAVATION, EARTHWORK OR DELIVERY OF MATERIALS.
3. MATERIALS MUST BE STATIONED ON THE POLY LINER. ANY INCIDENTAL MATERIALS DEPOSITED ON PAVED SECTION OR ALONG CURB LINE MUST BE CLEANED UP PROMPTLY.
4. POLY LINER AND TARP COVER SHOULD BE OF SIGNIFICANT THICKNESS TO PREVENT DAMAGE OR LOSS OF INTEGRITY.
5. SAND BAGS MAY BE SUBSTITUTED TO ANCHOR THE COVER TARP OR PROVIDE BERMING UNDER THE BASE LINER.
6. FEATURE IS NOT INTENDED FOR USE WITH WET MATERIAL THAT WILL BE DRAINING AND/OR SPREADING OUT ON THE POLY LINER OR FOR EROSION MATERIALS.
7. THIS FEATURE CAN BE USED FOR:
-UTILITY REPAIRS
-WHEN OTHER STAGING LOCATIONS AND OPTIONS ARE LIMITED.
-OTHER LIMITED APPLICATION AND SHORT DURATION STAGING.

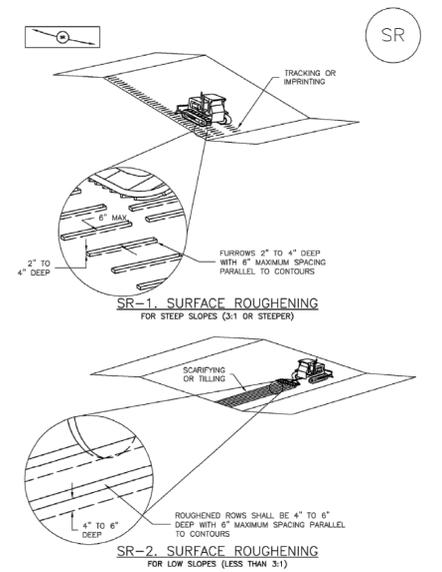
November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SP-5

MM-2 Stockpile Management (SM)

MATERIALS STAGING IN ROADWAY MAINTENANCE NOTES
1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. INSPECT PVC PIPE ALONG CURB LINE FOR CLOGGING AND DEBRIS. REMOVE OBSTRUCTIONS PROMPTLY.
5. CLEAN MATERIAL FROM PAVED SURFACES BY SWEEPING OR VACUUMING.
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.
(DETAILS ADAPTED FROM AURORA, COLORADO)

SP-6 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Surface Roughening (SR) EC-1



SR-1. SURFACE ROUGHENING FOR STEEP SLOPES (3:1 OR STEEPER)
SR-2. SURFACE ROUGHENING FOR LOW SLOPES (LESS THAN 3:1)

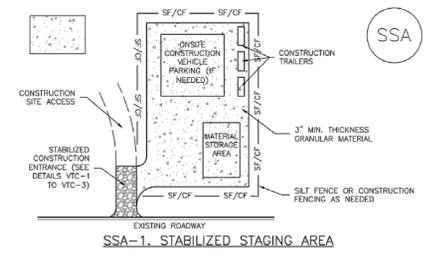
November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SR-3

EC-1 Surface Roughening (SR)

SURFACE ROUGHENING INSTALLATION NOTES
1. SEE PLAN VIEW FOR:
-LOCATION(S) OF SURFACE ROUGHENING.
2. SURFACE ROUGHENING SHALL BE PROVIDED PROMPTLY AFTER COMPLETION OF FINISHED GRADING (FOR AREAS NOT RECEIVING TOPSOIL) OR PRIOR TO TOPSOIL PLACEMENT OR ANY FORECASTED RAIN EVENT.
3. AREAS WHERE BUILDING FOUNDATIONS, PAVEMENT, OR SOIL WILL BE PLACED WITHOUT DELAY IN THE CONSTRUCTION SEQUENCE, SURFACE ROUGHENING IS NOT REQUIRED.
4. DISTURBED SURFACES SHALL BE ROUGHENED USING RIPPING OR TILLING EQUIPMENT ON THE CONTOUR OR TRACKING UP AND DOWN A SLOPE USING EQUIPMENT TREADS.
5. A FARMING DISK SHALL NOT BE USED FOR SURFACE ROUGHENING.
SURFACE ROUGHENING MAINTENANCE NOTES
1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACE UPON DISCOVERY OF THE FAILURE.
4. VEHICLES AND EQUIPMENT SHALL NOT BE DRIVEN OVER AREAS THAT HAVE BEEN SURFACE ROUGHENED.
5. IN NON-TURF GRASS FINISHED AREAS, SEEDING AND MULCHING SHALL TAKE PLACE DIRECTLY OVER SURFACE ROUGHENED AREAS WITHOUT FIRST SMOOTHING OUT THE SURFACE.
6. IN AREAS NOT SEEDED AND MULCHED AFTER SURFACE ROUGHENING, SURFACES SHALL BE RE-ROUGHENED AS NECESSARY TO MAINTAIN GROOVE DEPTH AND SMOOTH OVER RILL EROSION.
(DETAILS ADAPTED FROM TOWN OF PARKER, COLORADO, NOT AVAILABLE IN AURORA)
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

SR-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Stabilized Staging Area (SSA) SM-6



SSA-1. STABILIZED STAGING AREA
STABILIZED STAGING AREA INSTALLATION NOTES
1. SEE PLAN VIEW FOR:
-LOCATION OF STAGING AREA(S).
-CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.
2. STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.
3. STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.
4. THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR MATERIAL.
5. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.
6. ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE AND CONSTRUCTION FENCING.

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SSA-3

SM-6 Stabilized Staging Area (SSA)

STABILIZED STAGING AREA MAINTENANCE NOTES
5. STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.
6. THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.
NOTE: MANY MUNICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED.
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.
(DETAILS ADAPTED FROM BOULDER COUNTY, COLORADO, NOT AVAILABLE IN AURORA)

SSA-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

REFERENCE DRAWINGS
X:995 MDG22x34

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SHEET KEY

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PREPARED FOR:
LIBERTY TREE ACADEMY

PREPARED BY:
Matrix DESIGN GROUP
AN EMPLOYEE-OWNED COMPANY

SEAL

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 18.995.001

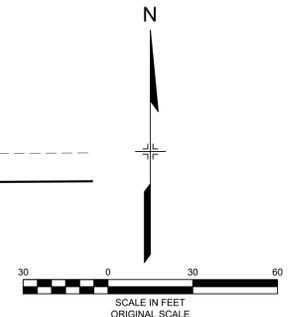
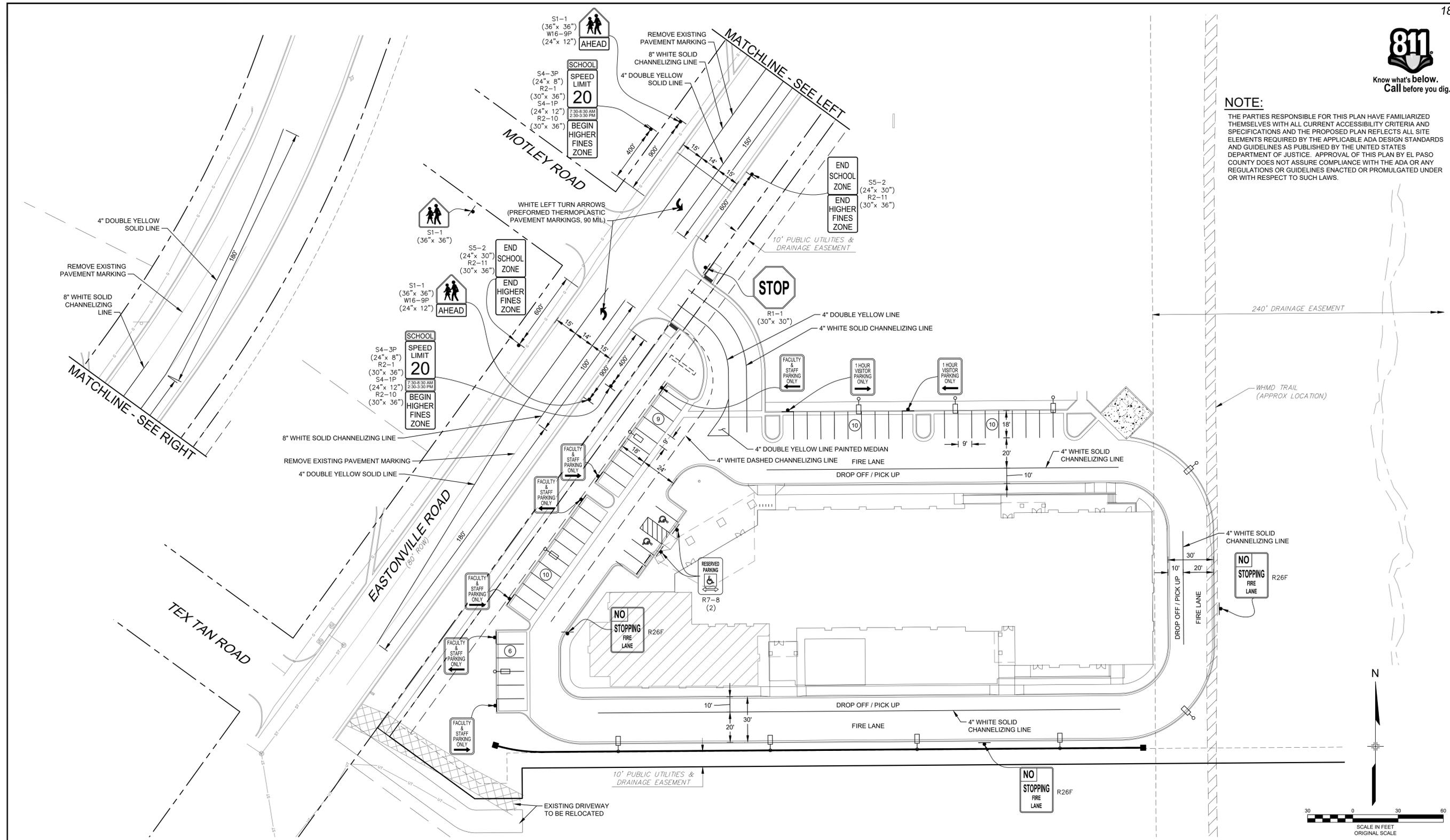
LIBERTY TREE ACADEMY
TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-18-023

EROSION CONTROL DETAILS

DESIGNED BY:	ACR	SCALE:	DATE ISSUED:	SEPTEMBER 2018	DRAWING No.
DRAWN BY:	ACR	HORIZ. NA	SHEET	17 OF 29	ECDT04
CHECKED BY:	DRK	VERT. NA			



NOTE:
 THE PARTIES RESPONSIBLE FOR THIS PLAN HAVE FAMILIARIZED THEMSELVES WITH ALL CURRENT ACCESSIBILITY CRITERIA AND SPECIFICATIONS AND THE PROPOSED PLAN REFLECTS ALL SITE ELEMENTS REQUIRED BY THE APPLICABLE ADA DESIGN STANDARDS AND GUIDELINES AS PUBLISHED BY THE UNITED STATES DEPARTMENT OF JUSTICE. APPROVAL OF THIS PLAN BY EL PASO COUNTY DOES NOT ASSURE COMPLIANCE WITH THE ADA OR ANY REGULATIONS OR GUIDELINES ENACTED OR PROMULGATED UNDER OR WITH RESPECT TO SUCH LAWS.



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LIBERTY TREE ACADEMY

TOWN OF PEYTON, EL PASO COUNTY
 CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-18-023

SIGNING & STRIPING PLAN

DESIGNED BY:	ACR	SCALE:	DATE ISSUED:	SEPTEMBER 2018	DRAWING No.
DRAWN BY:	ACR	HORIZ. 1" = 30'	SHEET	18 OF 29	ST01
CHECKED BY:	DRK	VERT. NA			



EPC TYPE A
(REVERSE SLOPE OF PAN FOR SPILL CURB)

EPC TYPE B

EPC TYPE C
(REVERSE SLOPE OF PAN FOR SPILL CURB)

EPC OPTIONAL TYPE C

EPC TYPE D
(6" RAMP CURB)

EPC TYPE E
(6" RAMP CURB)

LEGEND FOR FACE:
A 1/8" TO 1/4"
B 1-1/2"
C 1-1/2" TO 2"

NOTES:
1. GUTTER CROSS SLOPES SHALL BE 1/2 IN/FT. WHEN DRAWING AWAY FROM CURB AND 1 IN/FT. WHEN DRAWING TOWARD CURB.
2. T = SQUARED-OFF RETURN TO BE POURED MONOLITHICALLY, 8" PCC FOR LOCAL ROADS, 9" FOR COLLECTORS WITH 6x6 = 4.4 W.W.F. OR #4 REINFORCING BAR @ 18" EACH WAY.
3. 3" MINIMUM ASPHALT DEPTH (2 LIFTS).

DATE APPROVED: 8/11/11
DRAWN BY: André P. Brackin
REVISION DATE: 12/8/15
FILE NAME: SD_2-20

Typical Cross Pan Layout Detail
Standard Drawing

DATE APPROVED: 8/11/11
DRAWN BY: André P. Brackin
REVISION DATE: 12/8/15
FILE NAME: SD_2-26

Pedestrian Intersection Ramp Detail
Standard Drawing

DATE APPROVED: 9/16/10
DRAWN BY: André P. Brackin
REVISION DATE: 11/10/04
FILE NAME: SD_2-40

Pedestrian Intersection Ramp
Standard Drawing

DATE APPROVED: 7/9/09
DRAWN BY: André P. Brackin
REVISION DATE: 12/8/15
FILE NAME: SD_2-41

TRUNCATED DOME DETAILS

DOME SPACING

ELEVATION VIEW

SIDE CROSS SECTION VIEW OF DETECTABLE WARNING WELL, CURB AND GUTTER

DATE APPROVED: 1/1/08
DRAWN BY: John A. McCarty
REVISION DATE: 11/25/15
FILE NAME: SD_2-42

Parallel Pedestrian Ramp Detail
Standard Drawing

DATE APPROVED: 8/11/11
DRAWN BY: André P. Brackin
REVISION DATE: 12/8/15
FILE NAME: SD_2-50

Curb Opening with Drainage Chase Detail 2 of 2
Standard Drawing

DATE APPROVED: 8/11/11
DRAWN BY: André P. Brackin
REVISION DATE: 11/10/04
FILE NAME: SD_3-25A

Desilting Basin Outlet
Standard Drawing

DATE APPROVED: 8/11/11
DRAWN BY: André P. Brackin
REVISION DATE: 11/10/04
FILE NAME: SD_3-30

RIPRAP APRON DETAIL

DATE APPROVED: 8/11/11
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REVISION DATE: 11/10/04
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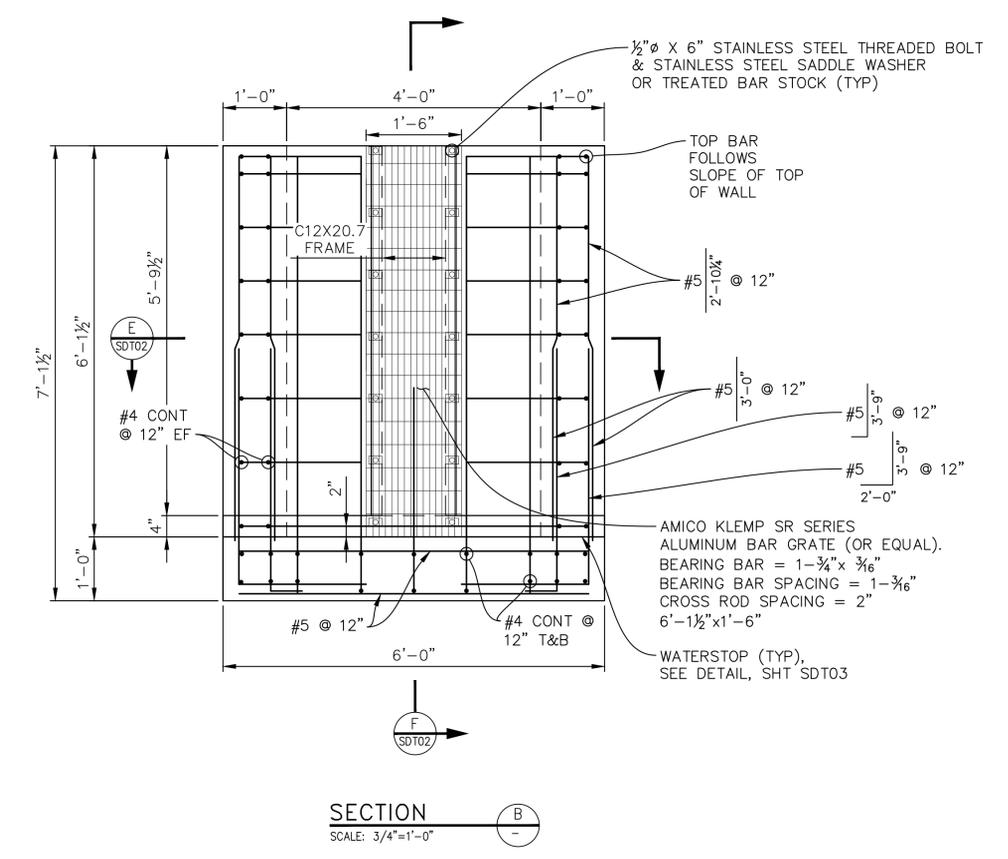
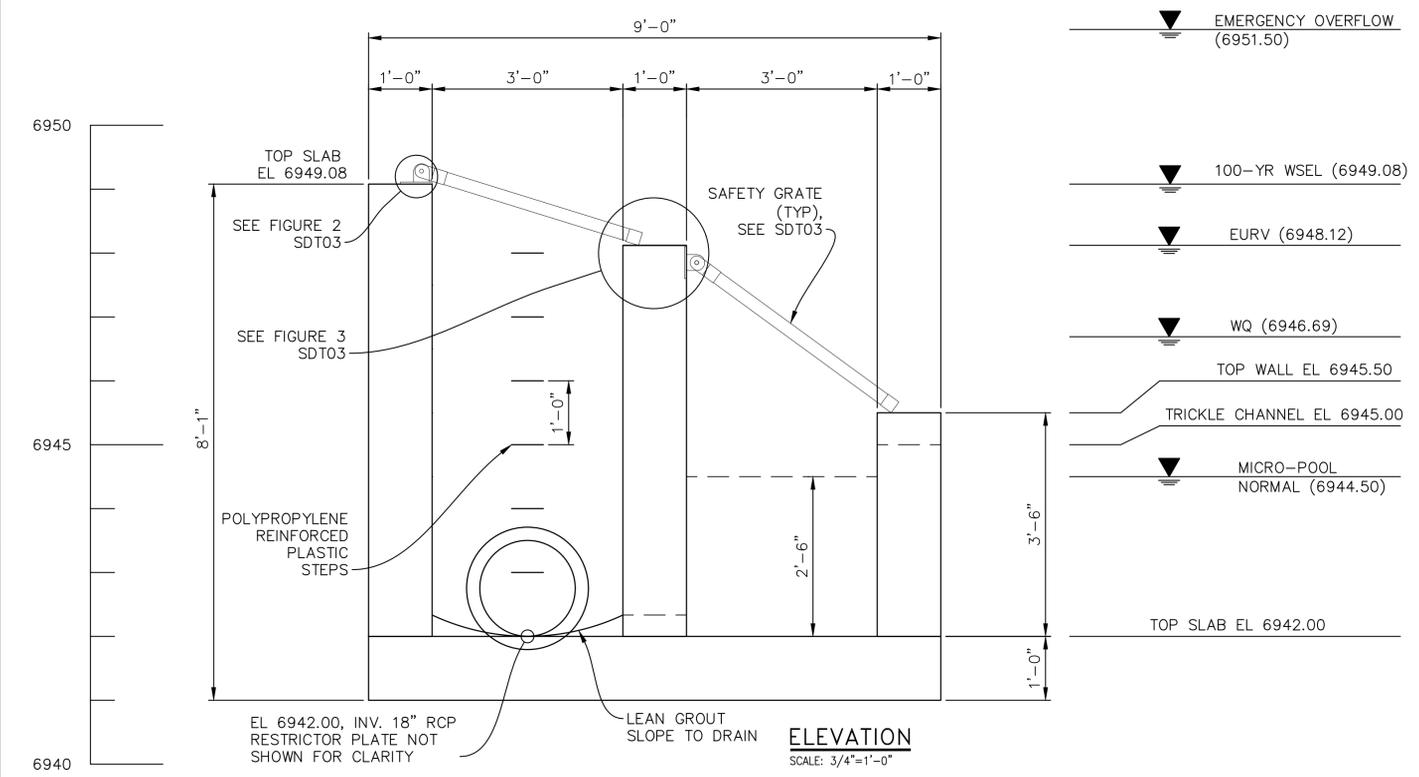
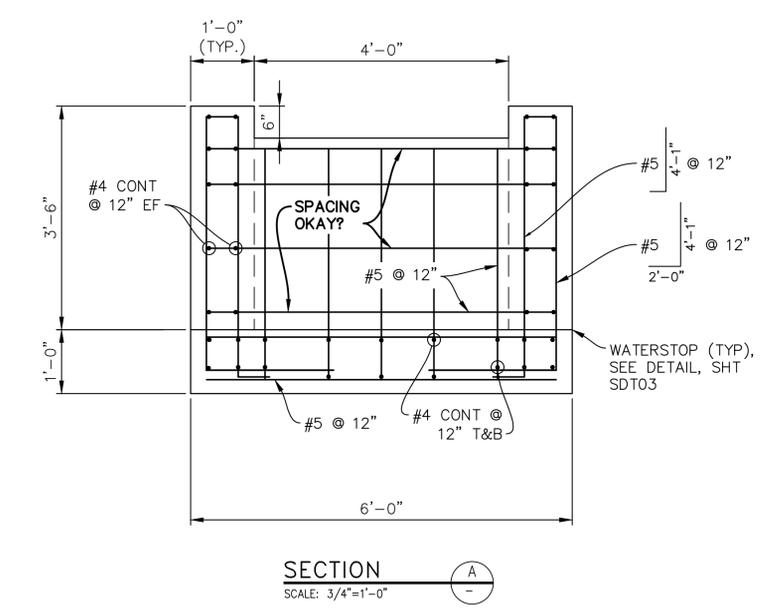
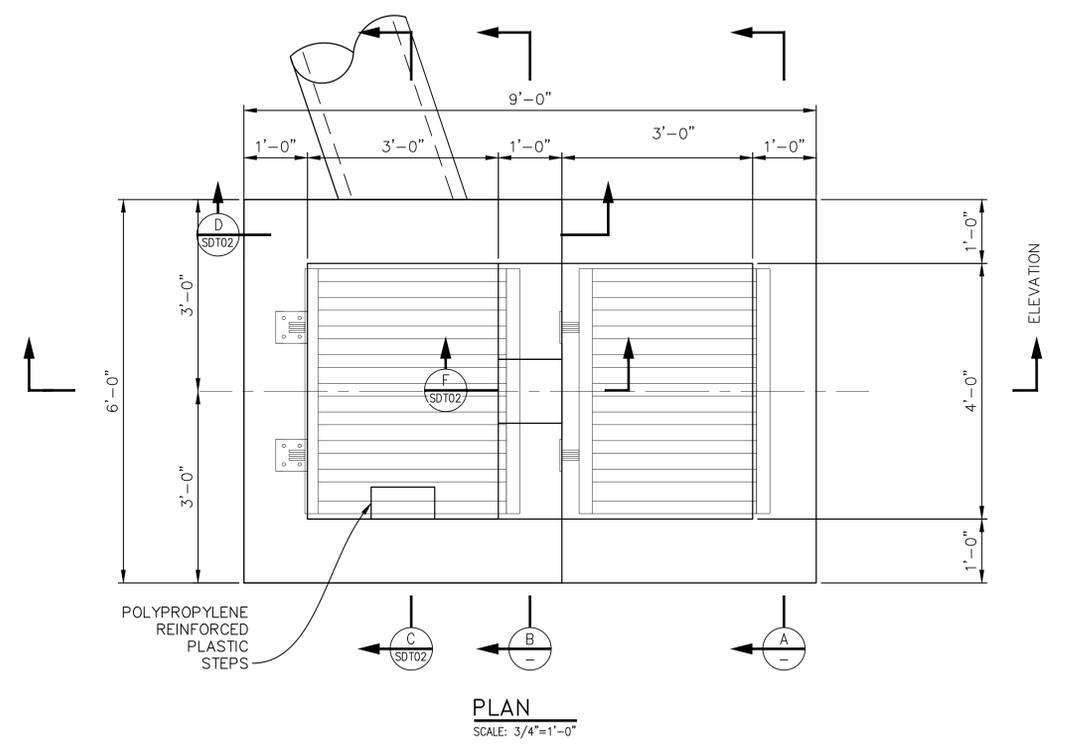
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PROJECT No. 18.995.001

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TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-18-023

DETAILS

DESIGNED BY: ACR	SCALE: HORIZ. NA	DATE ISSUED: SEPTEMBER 2018	DRAWING No. DT01
DRAWN BY: ACR	VERT. NA	19 OF 29 SHEET	
CHECKED BY: DRK			



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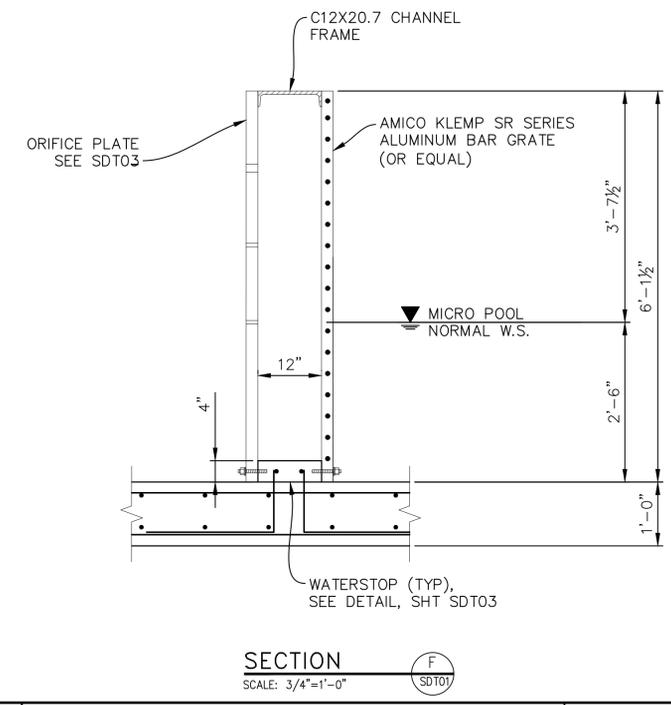
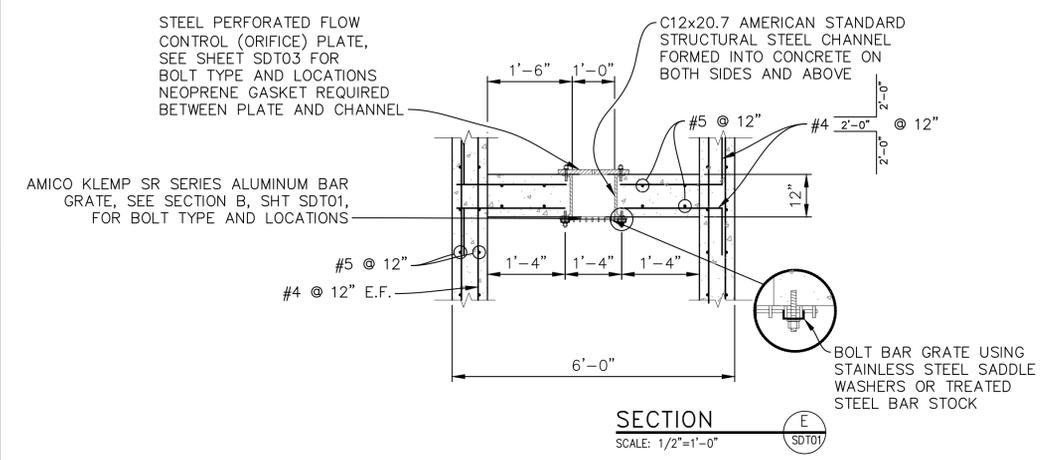
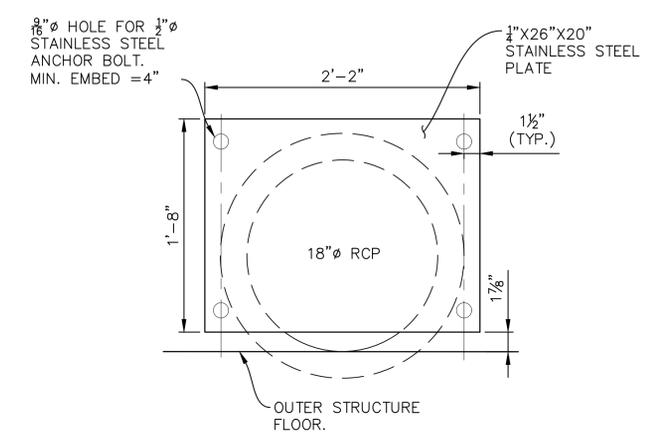
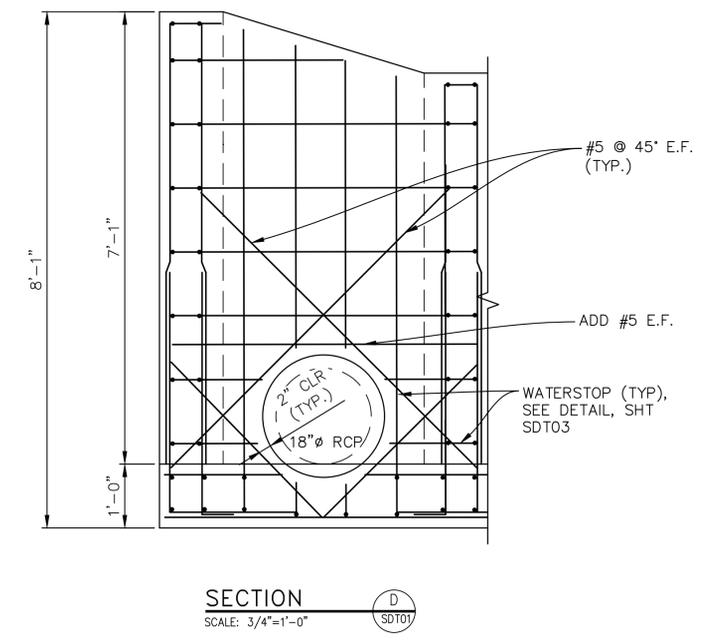
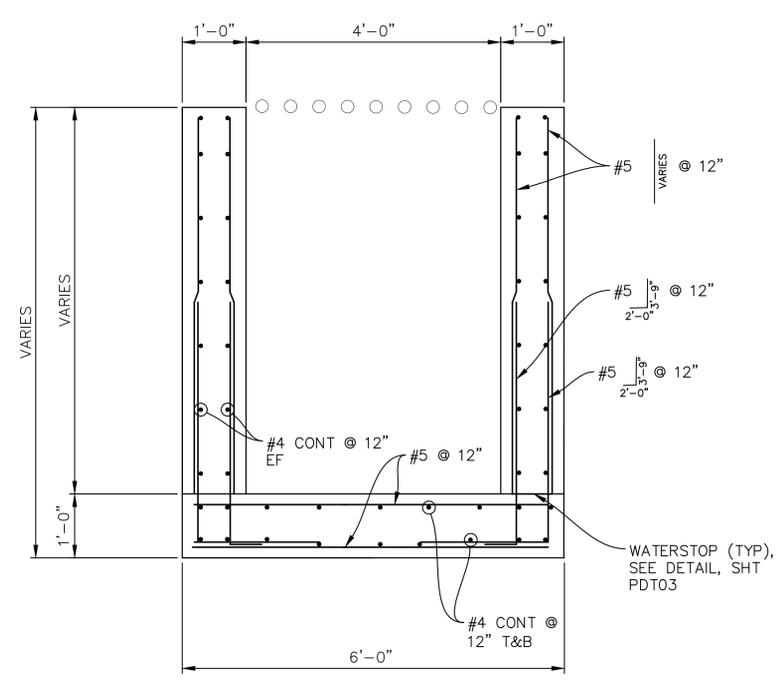
PREPARED BY:
Matrix DESIGN GROUP
AN EMPLOYEE-OWNED COMPANY

SEAL
Professional Engineer
24520
9/11/18

LIBERTY TREE ACADEMY
TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-18-023

POND OUTLET STRUCTURE DETAILS

DESIGNED BY: ACR SCALE: HORIZ. 3/4"=1'-0" DATE ISSUED: SEPTEMBER 2018 DRAWING No. SDT01
DRAWN BY: DRK VERT. 3/4"=1'-0" SHEET 20 OF 29
CHECKED BY: DRK PROJECT No. 18.995.001



No.	DATE	DESCRIPTION	BY
REVISIONS			
COMPUTER FILE MANAGEMENT			
FILE NAME: R:118.995.001 (Liberty Tree Academy)\Dwg\Construction Plans\Structures\SDT01-03.dwg			
CTB FILE: ---			
PLOT DATE: 9/11/2018 9:03 AM			
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NO.	DATE	DESCRIPTION	BY
REVISIONS			

PREPARED FOR:
LIBERTY TREE ACADEMY

PREPARED BY:
Matrix DESIGN GROUP
AN EMPLOYEE-OWNED COMPANY

SEAL

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 18.995.001

LIBERTY TREE ACADEMY COMPANY

TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-18-023

POND OUTLET STRUCTURE DETAILS

DESIGNED BY: ACR	SCALE: HORIZONTAL AS SHOWN	DATE ISSUED: SEPTEMBER 2018	DRAWING No. SDT02
DRAWN BY: ACR	VERT. AS SHOWN	SHEET 21 OF 29	
CHECKED BY: DRK			

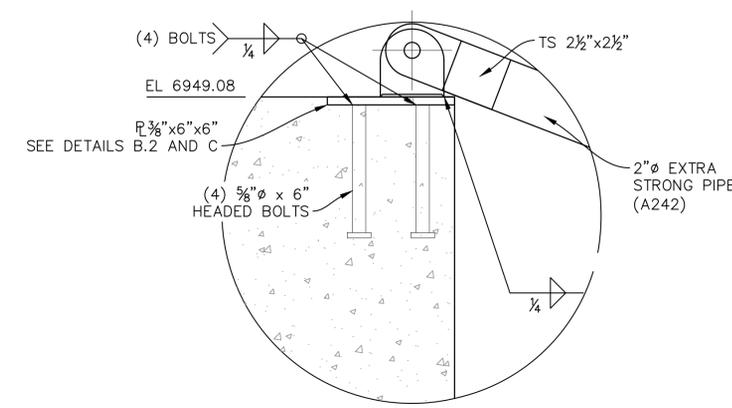
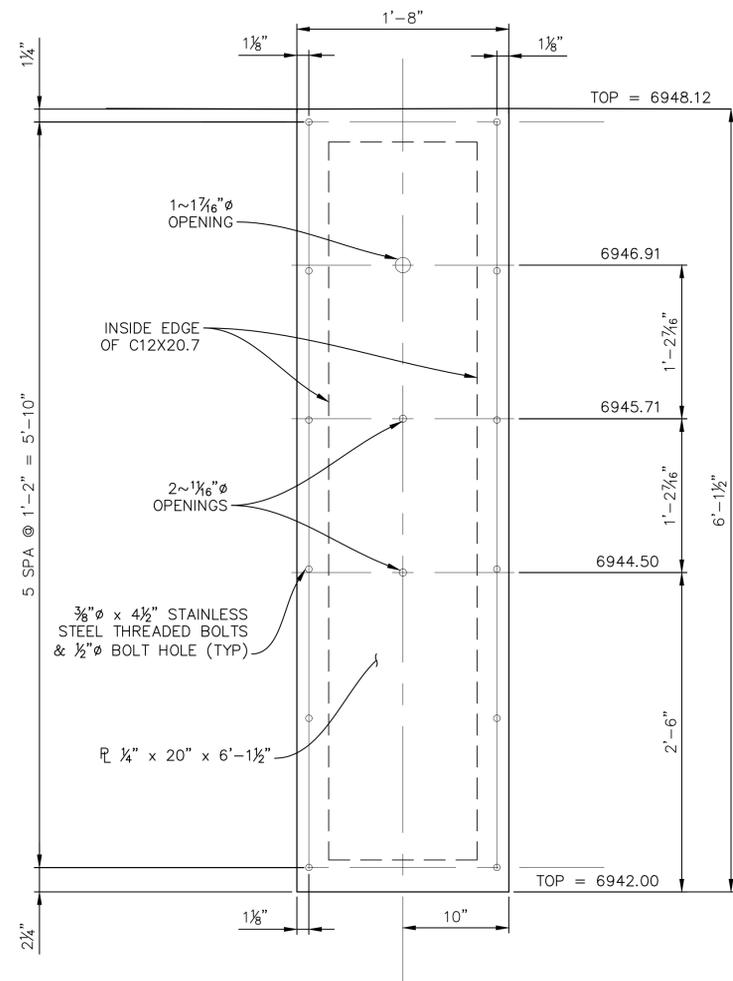
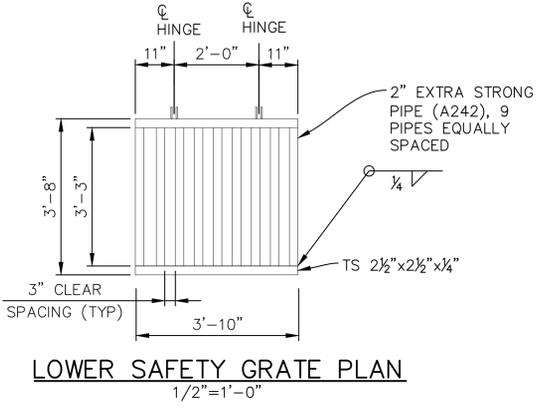
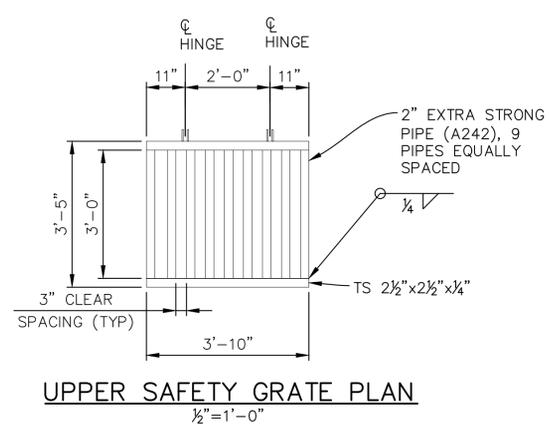


FIGURE 2
SAFETY GRATE HINGE
3"=1'-0"

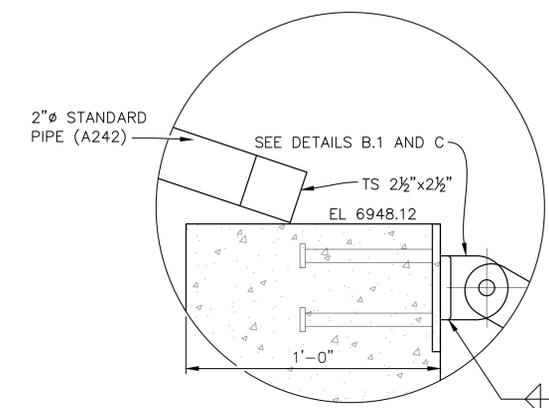
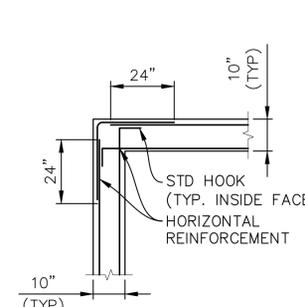
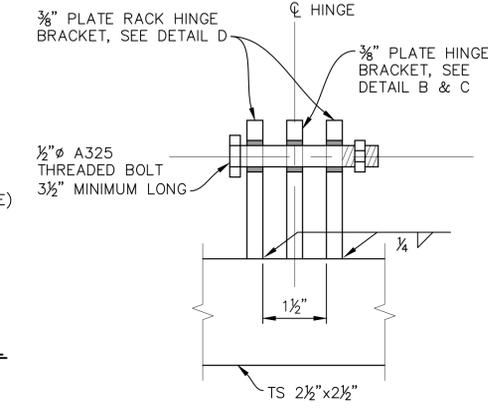


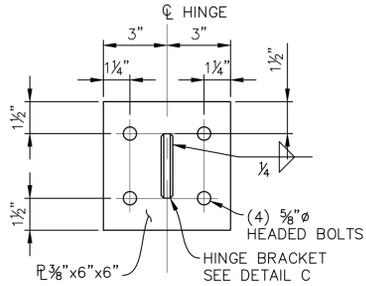
FIGURE 3
SAFETY GRATE HINGE
3"=1'-0"



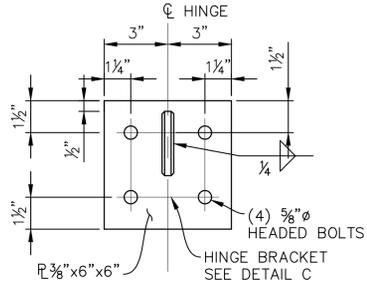
CORNER REINFORCING DETAIL
PLAN VIEW
3/8"=1'-0"



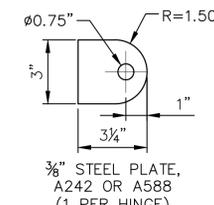
DETAIL A
6"=1'-0"



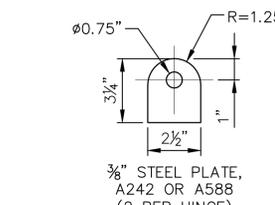
DETAIL B.1
(LOWER SAFETY GRATE ONLY)
3"=1'-0"



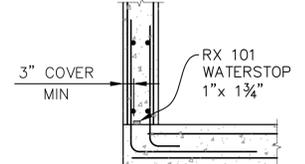
DETAIL B.2
(UPPER SAFETY GRATE ONLY)
3"=1'-0"



DETAIL C
HINGE BRACKET
3"=1'-0"



DETAIL D
RACK-HINGE BRACKET
3"=1'-0"



NOTES:
WATERSTOP SHALL BE VOLCLAY WATERSTOP RX 101 OR EARTHSHIELD JP 648 OR APPROVED EQUAL.
PLACE WATERSTOP FOR ENTIRETY OF EACH HORIZONTAL & VERTICAL CONSTRUCTION JOINT.
FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.

WATERSTOP DETAIL

No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: R:118.995.001 (Liberty Tree Academy)\Dwg\Construction Plans\Structures\SDT01-03.dwg			
CTB FILE: ---			
PLOT DATE: 9/11/2018 8:43 AM			
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NO.	DESCRIPTION

NO.	DESCRIPTION

PREPARED FOR:
LIBERTY TREE ACADEMY

PREPARED BY:
Matrix DESIGN GROUP
AN EMPLOYEE-OWNED COMPANY

SEAL

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 18.995.001

LIBERTY TREE ACADEMY
TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-18-023

POND OUTLET STRUCTURE DETAILS

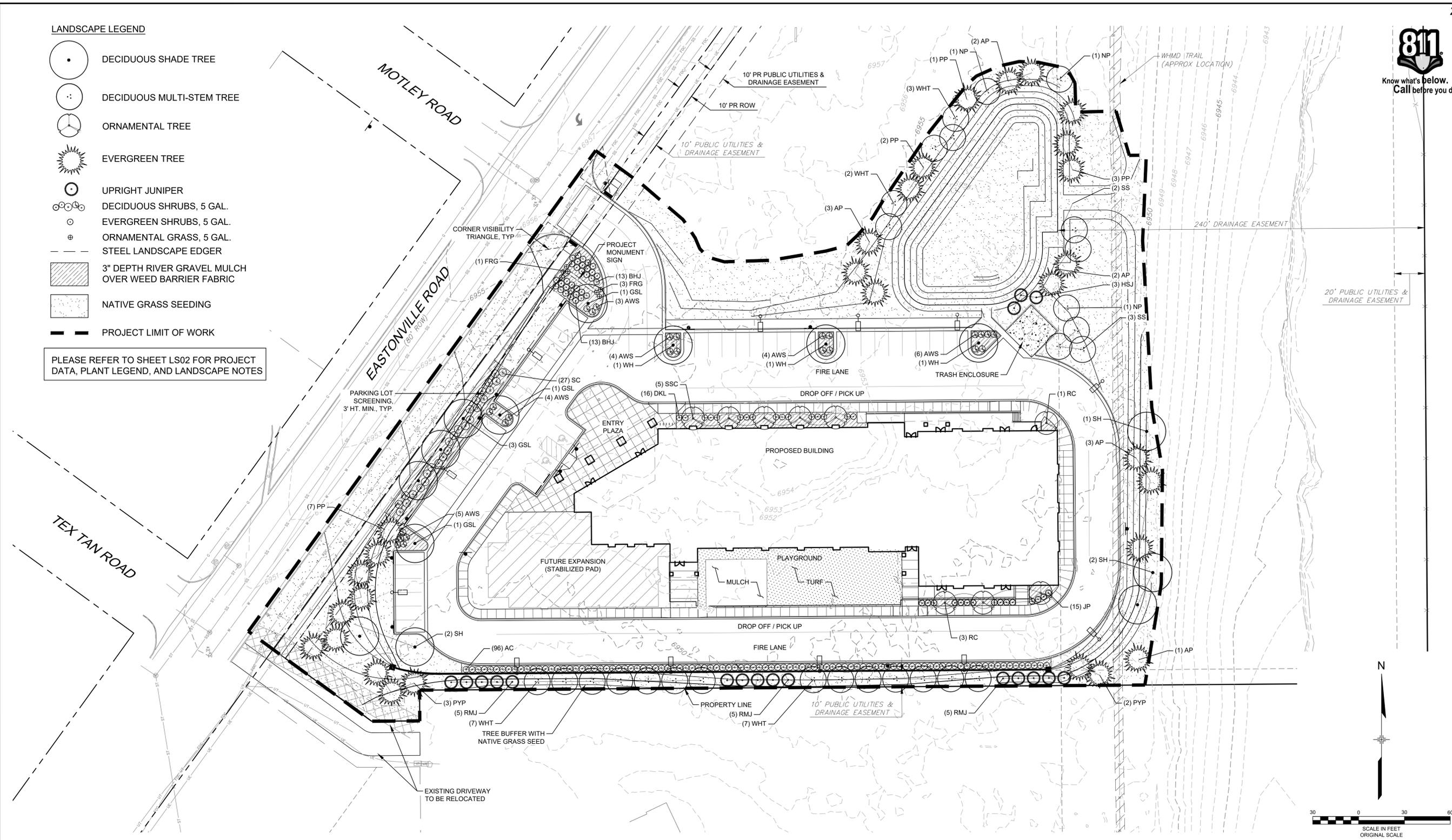
DESIGNED BY: ACR	SCALE: HORIZ AS SHOWN	DATE ISSUED: SEPTEMBER 2018	DRAWING No. STD03
CHECKED BY: DRK	VERT. AS SHOWN	SHEET 22 OF 29	



LANDSCAPE LEGEND

- DECIDUOUS SHADE TREE
- DECIDUOUS MULTI-STEM TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- UPRIGHT JUNIPER
- DECIDUOUS SHRUBS, 5 GAL.
- EVERGREEN SHRUBS, 5 GAL.
- ORNAMENTAL GRASS, 5 GAL.
- STEEL LANDSCAPE EDGER
- 3" DEPTH RIVER GRAVEL MULCH OVER WEED BARRIER FABRIC
- NATIVE GRASS SEEDING
- PROJECT LIMIT OF WORK

PLEASE REFER TO SHEET LS02 FOR PROJECT DATA, PLANT LEGEND, AND LANDSCAPE NOTES



No.	DATE	DESCRIPTION	BY
REVISIONS			
COMPUTER FILE MANAGEMENT			
FILE NAME: R:\18.995.001 (Liberty Tree Academy)\Dwg\Construction Plans\Landscapel\LS01_CD.dwg			
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PLOT DATE: 9/11/2018 8:43 AM			
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SHEET KEY	

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LIBERTY TREE ACADEMY

PREPARED BY:
Matrix DESIGN GROUP
AN EMPLOYEE-OWNED COMPANY

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 18.995.001

LIBERTY TREE ACADEMY

TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-18-023

LANDSCAPE PLAN

DESIGNED BY: ACR	SCALE: 1" = 30'	DATE ISSUED: SEPTEMBER 2018	DRAWING No.
DRAWN BY: ACR	HORIZ. NA	SHEET 23 OF 29	LS01
CHECKED BY: DRK	VERT. NA		



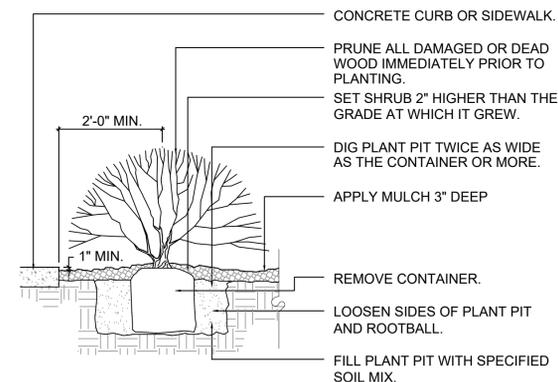
PLANT LEGEND					
SYMBOL	QUANTITY	COMMON NAME	BOTANICAL NAME	SIZE	NOTES
DECIDUOUS SHADE TREES					
GSL	6	ACCOLADE ELM	ULMUS JPAONICA X WILSONIANA	1.5" CAL.	B&B
SH	5	SKYLINE HONEYLOCUST	GLEDTISIA TRIACANTHOS INERMIS 'SKYLINE'	1.5" CAL.	B&B
WH	3	WESTERN HACKBERRY	CELTIS OCCIDENTALIS	1.5" CAL.	B&B
SUBTOTAL		14			
EVERGREEN TREES					
AP	11	AUSTRIAN PINE	PINUS NIGRA	6' HT.	B&B
HSJ	3	HILLSPIRE JUNIPER	JUNIPERUS VIRGINIANA 'CUPRESSIFOLIA'	6' HT.	B&B
PP	13	PONDEROSA PINE	PINUS PONDEROSA	6' HT.	B&B
PYP	5	PINYON PINE	PINUS EDULIS	6' HT.	B&B
RMJ	15	ROCKY MOUNTAIN JUNIPER	JUNIPERUS SCOPULORUM	6' HT.	B&B
SUBTOTAL		27			
ORNAMENTAL TREES					
NP	4	NEWPORT PLUM	PRUNUS CERASIFERA 'NEWPORT'	1" CAL.	B&B; MULTI-STEM
RC	6	RADIANT CRABAPPLE	MALUS 'RADIANT'	1" CAL.	B&B
SS	5	SHADBLOW SERVICEBERRY	AMELANCHIER CANADENSIS	1" CAL.	B&B; MULTI-STEM
SSC	5	SPRING SNOW CRABAPPLE	MALUS 'SPRING SNOW'	1" CAL.	B&B
WHT	18	WASHINGTON HAWTHORN	CRATAEUS PHAENOPYRUM	1" CAL.	B&B; MULTI-STEM
SUBTOTAL		38			
EVERGREEN SHRUBS					
BHJ	26	BAR HARBOUR JUNIPER	JUNIPERUS HORIZONTALIS 'BAR HARBOUR'	5 GAL.	4' O.C. SPACING
SUBTOTAL		26			
DECIDUOUS SHRUBS					
AC	96	ALPINE CURRANT	RIBES ALPINUM	5 GAL.	4' O.C. SPACING
AWS	26	ANTHONY WATERER SPIREA	SPIRAEA BUMALDA 'ANTHONY WATERER'	5 GAL.	4' O.C. SPACING
DKL	23	DWARF KOREAN LILAC	SYRINGA MEYERI	5 GAL.	4' O.C. SPACING
JP	27	JACKMAN POTENTILLA	POTENTILLA FRUTICOSA 'JACKMANI'	5 GAL.	4' O.C. SPACING
SC	27	SPREADING COTONEASTER	COTONEASTER DIVARICATA	5 GAL.	5' O.C. SPACING
SUBTOTAL		199			
ORNAMENTAL GRASSES					
FRG	4	FEATHER REED GRASS	CALAMAGROSTIS ACUTIFLORA 'KARL FOERSTER'	5 GAL.	3' O.C.
SUBTOTAL		4			

PROJECT DATA	
DESCRIPTION	QUANTITY
PROPERTY (AS DELINEATED ON PLAN)*	161,038 S.F.
BUILDING	25,279 S.F.
PARKING & OTHER VEHICULAR USE AREAS	47,391 S.F.
LANDSCAPE	65,609 S.F.
PARKING STALLS	49

* ONLY A PORTION OF THE TOTAL LOT IS BEING DEVELOPED AT THIS TIME, AS OUTLINED ON THE PLAN BY THE PROJECT LIMIT OF WORK. THEREFORE, THE QUANTITY SHOWN ABOVE IS ONLY THAT PORTION BEING DEVELOPED AT THIS TIME.

LANDSCAPE NOTES:

- ALL CONSTRUCTION SHALL BE DONE PER REGULATIONS OF GOVERNING AGENCIES.
- AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM IS REQUIRED FOR ALL LANDSCAPE AREAS. SPRAY IRRIGATION WILL BE PROVIDED FOR TURF AND GRASS AREAS; DRIP IRRIGATION WILL BE PROVIDED FOR ALL SHRUB BEDS AND TREES.
- NO TREE OR SHRUB WILL BE PLANTED WITHIN 5' OF A FIRE HYDRANT.
- DISTANCE OF TREES FROM WET UTILITY LINES SHALL BE A MINIMUM OF 10 FEET.
- ALL SHRUB BED AREAS SHALL BE SEPARATED FROM SOD OR GRASS AREAS BY ROLLED-TOP STEEL EDGING MATERIAL.
- 3" DEPTH RIVER GRAVEL MULCH (1 1/2") SHALL BE PLACED OVER A SUITABLE WEED BARRIER FABRIC IN ALL SHRUB PLANTING BEDS.
- SOIL PREPARATION FOR LANDSCAPE AREAS SHALL INCLUDE TOPSOIL AND/OR ORGANIC MATTER (COMPOST OR AGED GROUND MANURE) AND SHALL BE ADDED AT A RATE OF 4 CUBIC YARDS PER ONE THOUSAND SQUARE FEET AND TILLED 8" DEPTH INTO THE SOIL.
- SHRUB BEDS SHALL BE AMENDED AND TILLED IN THEIR ENTIRETY.
- CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE IN ALL LANDSCAPE AREAS.
- CONTRACTOR SHALL ENSURE THAT THE LANDSCAPE PLAN IS COORDINATED WITH THE PLANS PREPARED BY OTHER CONSULTANTS SO THAT THE PROPOSED GRADING, STORM DRAINAGE, OR OTHER CONSTRUCTION DOES NOT CONFLICT WITH NOR PRECLUDE INSTALLATION AND MAINTENANCE OF LANDSCAPE ELEMENTS AS DESIGNATED ON THIS PLAN.
- TOPSOIL, IF DISTURBED SHALL BE STOCKPILED AND RE-USED ON THE SITE.



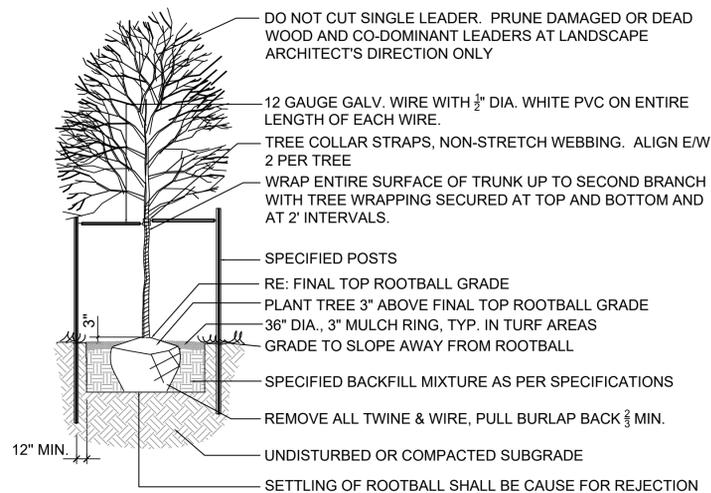
NOTE: ANY BROKEN OR CRUMBLING ROOTBALL WILL BE REJECTED. REMOVING THE CONTAINERS WILL NOT BE AN EXCUSE FOR DAMAGED ROOTBALLS.

NOTE: HOLD GRADE 1" BELOW EDGE OF WALK OR CURB. THIS DETAIL SHALL ALSO APPLY TO PERENNIAL FLOWERS IN CONTAINER.

NOTE: ALL JUNIPER PLANTS SHOULD BE PLANTED SO TOP OF ROOT MASS OCCURS AT FINISH GRADE OF MULCH LAYER.

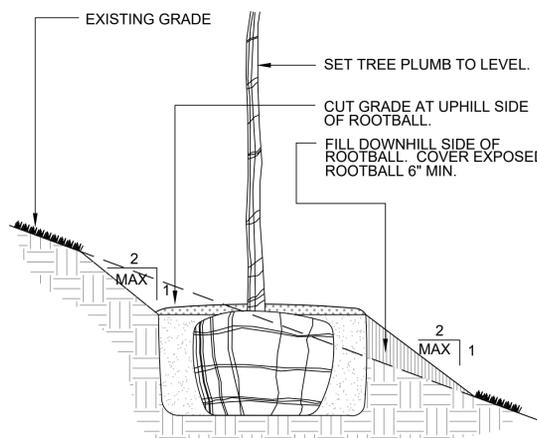
SHRUB PLANTING

NTS



DECIDUOUS TREE PLANTING

NTS



NOTE: REFER TO VARIOUS SPECIFIC TREE INSTALLATION DETAILS FOR STAKING, GUYING, MULCHING, ETC.

NOTE: THIS INSTALLATION SHALL APPLY TO ALL TREE TYPES AND SIZES PLANTED ON SLOPES LESS THAN 2:1.

TREE PLANTING ON SLOPE

NTS



NOTES:

- INSTALL SPECIFIED MULCH TO DRIPLINE OF TREE WHERE PLANTED IN GRASS AREAS.
- DO NOT PROVIDE WATER BASIN IN IRRIGATED LAWN AREAS.
- PLANT TOP OF ROOTBALL AT FINAL GRADE OF WATERING BASIN IN NATIVE GRASS AREAS.

EVERGREEN TREE PLANTING

NTS

REFERENCE DRAWINGS			
X-995-MD-022x34			
X-995-PR-BASE			
X-995-EX-BASE			
X-995-EX-MAP			
X-995-PR-GRAD			
X-995-PR-LANDSCAPE			
Planting Details			
No.	DATE	DESCRIPTION	BY
REVISIONS			
COMPUTER FILE MANAGEMENT			
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CTB FILE: ----			
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SHEET KEY	
1	1

PREPARED FOR:

LIBERTY TREE ACADEMY

PREPARED BY:

Matrix DESIGN GROUP
AN EMPLOYEE-OWNED COMPANY

Teressa J. Roberson
LA-203
01/01/2008
Original Date of Licensure
STATE OF COLORADO
LICENSED LANDSCAPE ARCHITECT

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 18.995.001

LIBERTY TREE ACADEMY

TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-18-023

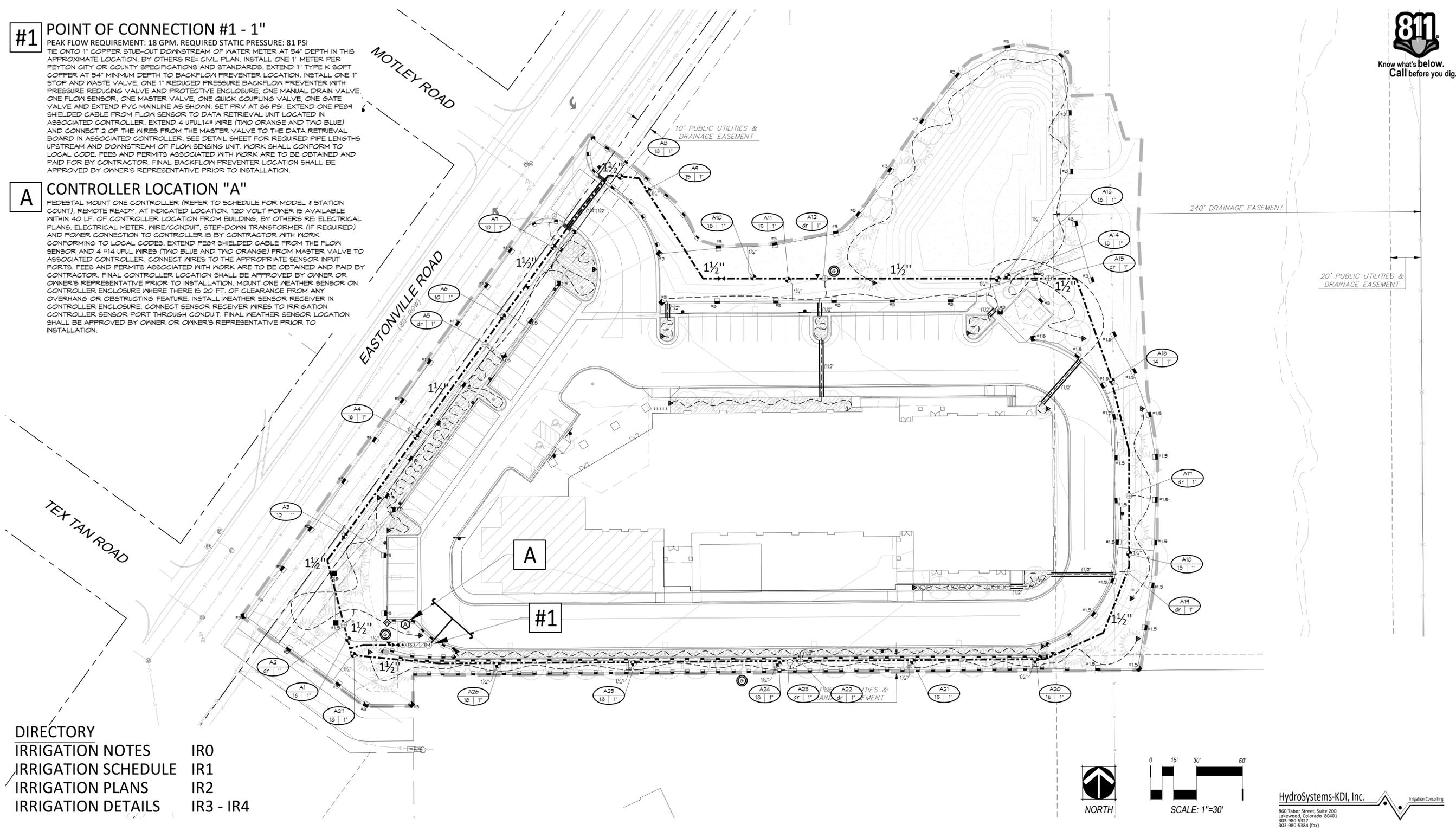
LANDSCAPE NOTES

DESIGNED BY:	ACR	SCALE:	DATE ISSUED:	SEPTEMBER 2018	DRAWING No.
DRAWN BY:	ACR	HORIZ. NA	SHEET	24 OF 29	LS02
CHECKED BY:	DRK	VERT. NA			



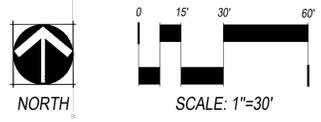
#1 POINT OF CONNECTION #1 - 1"
 PEAK FLOW REQUIREMENT: 18 GPM. REQUIRED STATIC PRESSURE: 81 PSI
 TIE ONTO 1" COPPER SUB-OUT DOWNSTREAM OF WATER METER AT 54" DEPTH IN THIS APPROXIMATE LOCATION. BY OTHERS RE: CIVIL PLAN. INSTALL ONE 1" METER PER PEYTON CITY OR COUNTY SPECIFICATIONS AND STANDARDS. EXTEND 1" TYPE K SOFT COPPER AT 54" MINIMUM DEPTH TO BACKFLOW PREVENTER LOCATION. INSTALL ONE 1" STOP AND WASTE VALVE, ONE 1" REDUCED PRESSURE BACKFLOW PREVENTER WITH PRESSURE REDUCING VALVE AND PROTECTIVE ENCLOSURE, ONE MANUAL DRAIN VALVE, ONE FLOW SENSOR, ONE MASTER VALVE, ONE QUICK COUPLING VALVE, ONE GATE VALVE AND EXTEND P.V.C. MAINLINE AS SHOWN. SET PRV AT 86 PSI. EXTEND ONE PE89 SHIELDED CABLE FROM FLOW SENSOR TO DATA RETRIEVAL UNIT LOCATED IN ASSOCIATED CONTROLLER. EXTEND 4 UFUL14# WIRE (TWO ORANGE AND TWO BLUE) AND CONNECT 2 OF THE WIRES FROM THE MASTER VALVE TO THE DATA RETRIEVAL BOARD IN ASSOCIATED CONTROLLER. SEE DETAIL SHEET FOR REQUIRED PIPE LENGTHS UPSTREAM AND DOWNSTREAM OF FLOW SENSING UNIT. WORK SHALL CONFORM TO LOCAL CODE. FEES AND PERMITS ASSOCIATED WITH WORK ARE TO BE OBTAINED AND PAID FOR BY CONTRACTOR. FINAL BACKFLOW PREVENTER LOCATION SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

A CONTROLLER LOCATION "A"
 PEDESTAL MOUNT ONE CONTROLLER (REFER TO SCHEDULE FOR MODEL & STATION COUNT), REMOTE READY, AT INDICATED LOCATION. 120 VOLT POWER IS AVAILABLE WITHIN 40 LF. OF CONTROLLER LOCATION FROM BUILDING. BY OTHERS RE: ELECTRICAL PLANS. ELECTRICAL METER, WIRE/CONDUIT, STEP-DOWN TRANSFORMER (IF REQUIRED) AND POWER CONNECTION TO CONTROLLER IS BY CONTRACTOR WITH WORK CONFORMING TO LOCAL CODES. EXTEND PE89 SHIELDED CABLE FROM THE FLOW SENSOR AND 4 #14 UFUL WIRES (TWO BLUE AND TWO ORANGE) FROM MASTER VALVE TO ASSOCIATED CONTROLLER. CONNECT WIRES TO THE APPROPRIATE SENSOR INPUT PORTS. FEES AND PERMITS ASSOCIATED WITH WORK ARE TO BE OBTAINED AND PAID BY CONTRACTOR. FINAL CONTROLLER LOCATION SHALL BE APPROVED BY OWNER OR OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. MOUNT ONE WEATHER SENSOR ON CONTROLLER ENCLOSURE WHERE THERE IS 20 FT. OF CLEARANCE FROM ANY OVERHANG OR OBSTRUCTING FEATURE. INSTALL WEATHER SENSOR RECEIVER IN CONTROLLER ENCLOSURE. CONNECT SENSOR RECEIVER WIRES TO IRRIGATION CONTROLLER SENSOR PORT THROUGH CONDUIT. FINAL WEATHER SENSOR LOCATION SHALL BE APPROVED BY OWNER OR OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.



DIRECTORY

IRRIGATION NOTES	IR0
IRRIGATION SCHEDULE	IR1
IRRIGATION PLANS	IR2
IRRIGATION DETAILS	IR3 - IR4



HydroSystems-KDI, Inc. Irrigation Consulting
 860 Tabor Street, Suite 200
 Lakewood, Colorado 80401
 303-980-5327
 303-980-5384 (fax)

REFERENCE DRAWINGS

LS01-SDP	
X-995-PR-LANDSCAPE	
X-995-EX-BASE	
X-995-EX-MAP	
X-995-MD-220-34	
X-995-PR-BASE	
X-995-PR-GRAD	

No.	DATE	DESCRIPTION	BY
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SHEET KEY

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PREPARED FOR:
LIBERTY TREE ACADEMY

PREPARED BY:
Matrix DESIGN GROUP
 AN EMPLOYEE-OWNED COMPANY

SEAL

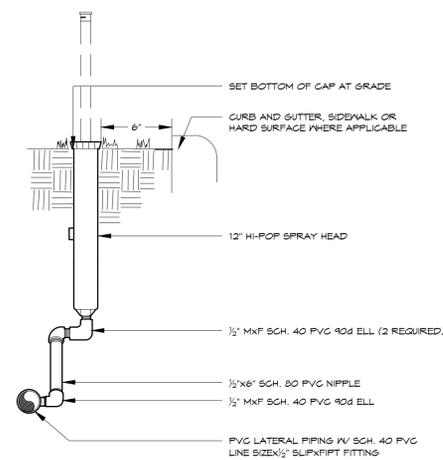
FOR AND ON BEHALF OF
 MATRIX DESIGN GROUP, INC.
 PROJECT No. 18.995.001

LIBERTY TREE ACADEMY

TOWN OF PEYTON, EL PASO COUNTY
 CONSTRUCTION DOCUMENTS

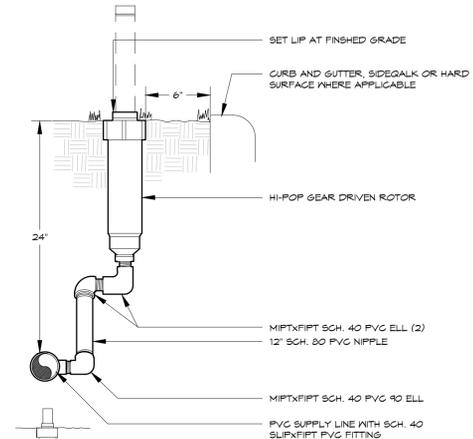
IRRIGATION PLAN

DESIGNED BY: KC	SCALE	DATE ISSUED: AUGUST 2018	DRAWING No. IR1
DRAWN BY: KC	HORIZ.	SHEET 26 OF 29	
CHECKED BY: KJD	VERT.		



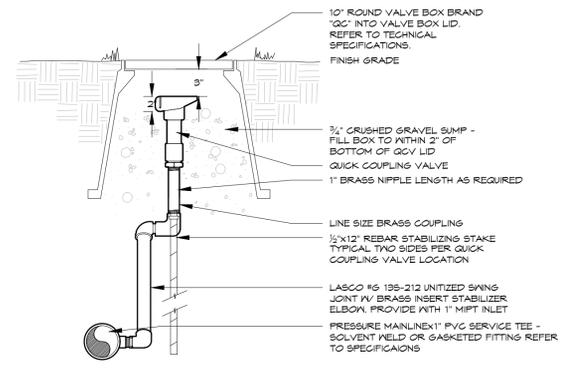
- NOTE:
- SET HEAD PERPENDICULAR TO FINISH GRADE SWING.
 - JOINT ASSEMBLY SHALL BE ATTACHED TO BOTTOM SPRAY HEAD INLET ONLY.
 - APPLY TEFLON TAPE TO ALL MALE P.V.C. THREADED FITTINGS AND NIPPLES.

HI-POP SPRAY HEAD ①



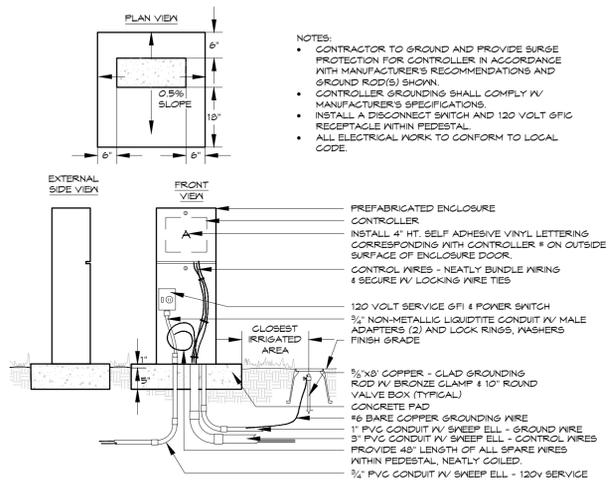
- NOTE:
- DIAMETERS OF FITTINGS AND NIPPLES SHALL EQUAL ROTOR INLET DIAMETER.
 - SET ROTOR PERPENDICULAR TO FINISH GRADE.
 - APPLY TEFLON TAPE ALL P.V.C. MALE THREADED FITTINGS.

HI-POP GEAR DRIVEN ROTOR ②



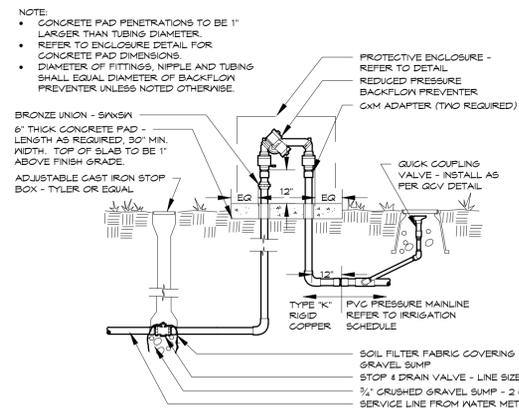
APPLY TEFLON TAPE TO ALL THREADED NIPPLES

QUICK COUPLING VALVE ③

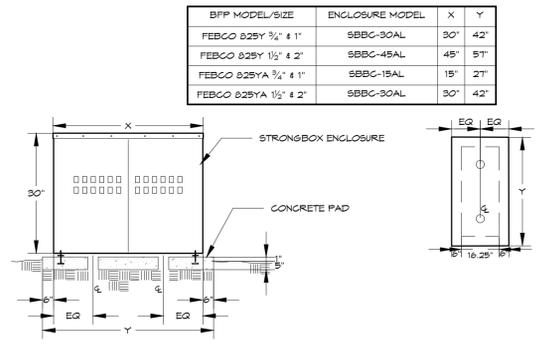


- NOTES:
- CONTRACTOR TO GROUND AND PROVIDE SURGE PROTECTION FOR CONTROLLER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND GROUND ROD(S) SHOWN.
 - CONTROLLER GROUNDING SHALL COMPLY W/ MANUFACTURER'S SPECIFICATIONS.
 - INSTALL A DISCONNECT SWITCH AND 120 VOLT GFI RECEPTACLE WITHIN PEDESTAL.
 - ALL ELECTRICAL WORK TO CONFORM TO LOCAL CODE.

ELECTRIC CONTROLLER PEDESTAL ④

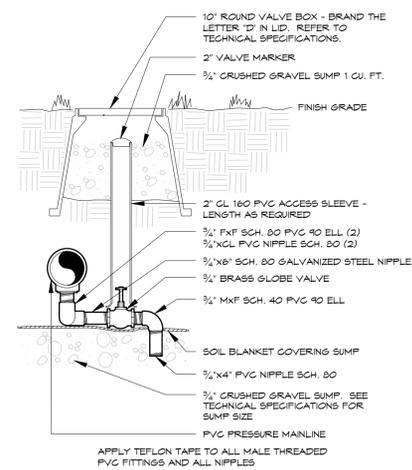


BACKFLOW PREVENTER ⑤
3/4" - 2" SYSTEMS WITH PVC CONNECTION



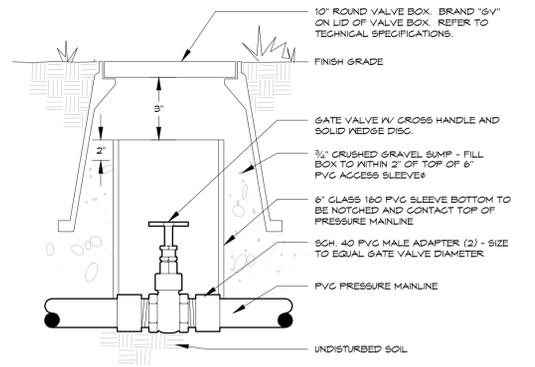
- NOTES:
- PAD PENETRATIONS FOR BACKFLOW PREVENTER RISERS TO BE 1" LARGER THAN RISER DIAMETER.
 - TOP SURFACE OF CONCRETE PAD SHALL BE 1" ABOVE FINISH GRADE.
 - INSTALL ENCLOSURE ANCHORS AS PER MANUFACTURER'S RECOMMENDATIONS.
 - PROVIDE OWNER WITH KEYPAD FOR ENCLOSURE.

BACKFLOW ENCLOSURE ⑥
STRONGBOX - 3/4" - 2" SYSTEMS



APPLY TEFLON TAPE TO ALL MALE THREADED P.V.C. FITTINGS AND ALL NIPPLES

MANUAL DRAIN VALVE ⑦

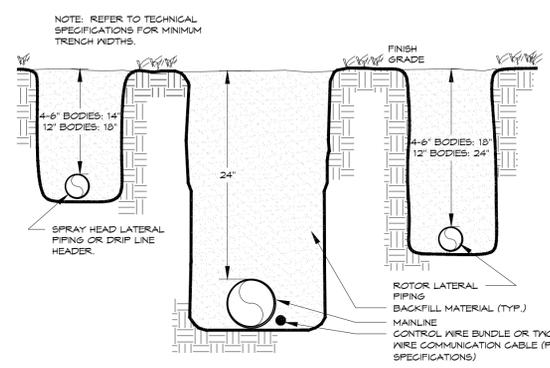


GATE VALVE ⑧

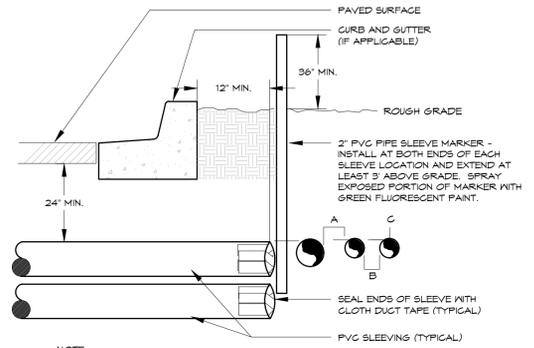
- DIRECTORY**
- IRRIGATION NOTES IR0
 - IRRIGATION SCHEDULE IR1
 - IRRIGATION PLANS IR2
 - IRRIGATION DETAILS IR3 - IR4

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860 Tabor Street, Suite 200
Lakewood, Colorado 80401
303-980-5327
303-980-5384 (fax)

REFERENCE DRAWINGS L501-SDP X-995-PR-LANDSCAPE X-995-EX-BASE X-995-EX-MAP X-995-MD520-34 X-995-PR-BASE X-995-PR-GRAD	SHEET KEY			PREPARED FOR: ACADEMY PREPARED BY: AN EMPLOYEE-OWNED COMPANY	SEAL FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 18.995.001	LIBERTY TREE ACADEMY TOWN OF PEYTON, EL PASO COUNTY CONSTRUCTION DOCUMENTS	
	No. DATE DESCRIPTION REVISIONS BY	DESIGNED BY: KC SCALE DRAWN BY: KC HORIZ. CHECKED BY: KJD VERT.				DATE ISSUED: AUGUST 2018 SHEET 27 OF 29	DRAWING No. IR2
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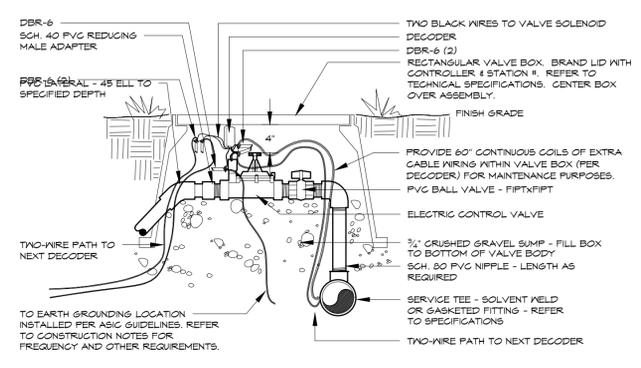


TRENCH
24" MAINLINE 9



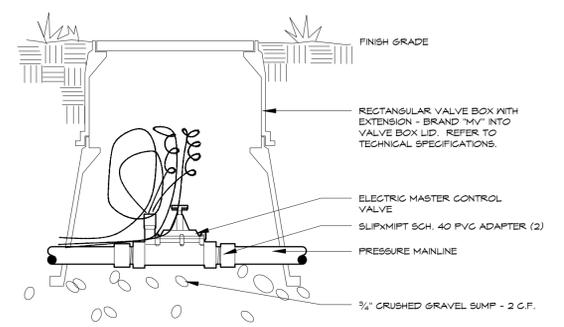
NOTE:
 • ALL SLEEVE MATERIAL PER IRRIGATION SCHEDULE. SIZE AS NOTED ON PLAN.
 • INSTALL SLEEVES IN SIDE-BY-SIDE CONFIGURATION WHERE MULTIPLE SLEEVES ARE TO BE INSTALLED. SPACE SLEEVES 4" TO 6" APART. DO NOT STACK SLEEVES VERTICALLY.
 • CONTRACTOR TO COORDINATE WITH FLATWORK INSTALLER TO BRAND A "V" IN SIDEWALK OR CURB AT BOTH ENDS OF SLEEVE CROSSING.

IRRIGATION SLEEVING 10

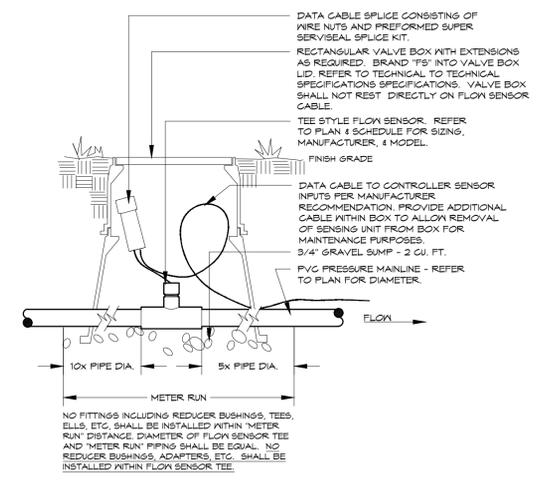


NOTE: DIAMETERS OF BALL VALVES, PVC FITTINGS AND NIPPLES SHALL EQUAL ELECTRIC CONTROL VALVE DIAMETER. VALVE BOXES SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO ADJACENT SIDEWALKS AND HARD SURFACES WHERE APPLICABLE. APPLY TEFLON TAPE TO ALL MALE THREADED FITTINGS AND THREADED NIPPLES.

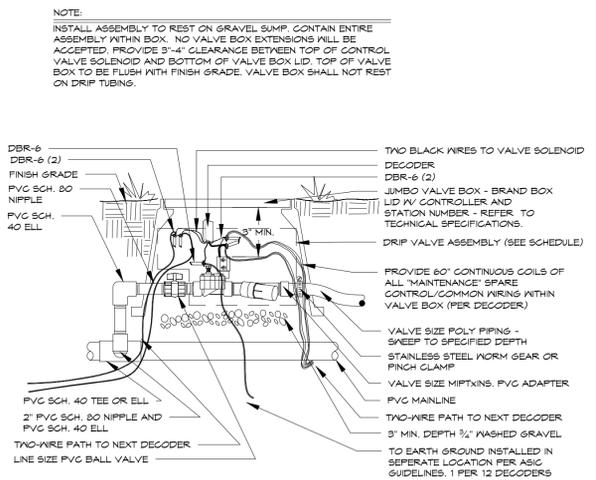
ELECTRIC CONTROL VALVE
TWO-WIRE SYSTEM - PVC PIPE 11



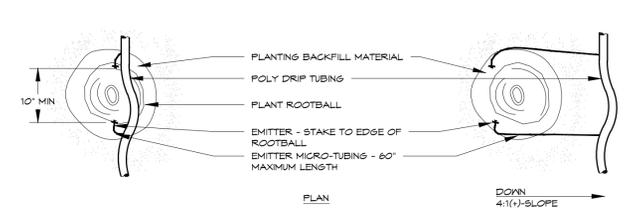
MASTER VALVE
24V - Small - Typical 12



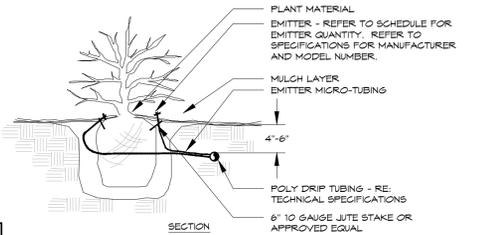
FLOW SENSOR
VIA DATA CABLE - TEE STYLE 13



DRIP VALVE
TWO-WIRE SYSTEM - KIT - POLY PIPE 14



PLANT SIZE	EMITTER FLOW RATE	EMITTER QTY. AT MULCHED BED LOCATIONS	EMITTER QTY. AT NATIVE SEED LOCATIONS
1 - 2 GALLON MATERIAL	0.5 GPH	ONE EACH	ONE EACH
3 GALLON MATERIAL	0.5 GPH	TWO EACH	TWO EACH
1 1/2" CALIPER TREE	1.0 GPH	THREE EACH	FOUR EACH
2" CALIPER TREE	1.0 GPH	FOUR EACH	SIX EACH
2 1/2" CALIPER TREE	1.0 GPH	SIX EACH	EIGHT EACH
3" CALIPER TREE	1.0 GPH	EIGHT EACH	TEN EACH
3 1/2" CALIPER TREE	1.0 GPH	NINE EACH	ELEVEN EACH
4" CALIPER TREE	1.0 GPH	TEN EACH	TWELVE EACH
6 FT. CONIFEROUS TREE	1.0 GPH	FOUR EACH	SIX EACH
8 FT. CONIFEROUS TREE	1.0 GPH	SIX EACH	NINE EACH
10 FT. CONIFEROUS TREE	1.0 GPH	EIGHT EACH	TWELVE EACH
12 FT. CONIFEROUS TREE	1.0 GPH	TEN EACH	FOURTEEN EACH



NOTES:
 • INSTALL EMITTERS ON OPPOSING SIDES OF ROOTBALL. THREE OR MORE EMITTERS SHALL BE EQUALLY SPACED AROUND ROOTBALL.
 • EMITTERS ARE TO BE INSTALLED TO CLEAR SURFACE BY A MINIMUM OF 1" AND A MAXIMUM OF 2".
 • FLUSH ALL LINES THOROUGHLY, INCLUDING EMITTER MICRO-TUBING PRIOR TO EMITTER INSTALLATION.
 • IF PLANTING ON A 4:1 SLOPE OR STEEPER, INSTALL BOTH EMITTERS ON UPHILL SIDE OF ROOTBALL.
 • EMITTERS SHALL BE SELF-FLUSHING, PRESSURE COMPENSATING-TYPE UNLESS NOTED OTHERWISE WITHIN TECHNICAL SPECIFICATIONS.
 • DRIP VALVE ZONES ARE DESIGNED TO ACCOUNT FOR DIFFERENCES IN PLANT REQUIREMENTS (HYDROZONES) AND SUN EXPOSURE.
 • CONTRACTOR SHALL ENSURE HYDROZONES ARE VALVED SEPARATELY AS SHOWN ON PLAN.
 • SITE CONDITIONS MAY DICTATE THAT MULTIPLE SUN EXPOSURES ARE VALVED TOGETHER DURING THE DESIGN PROCESS. CONTRACTOR SHALL ADJUST EMITTER SCHEDULE AS FOLLOWS:
 • EMITTER QUANTITIES SHALL REMAIN THE SAME BUT EMITTER GALLONAGE SHALL BE DOUBLED FOR PLANTS WITH SOUTH AND WEST EXPOSURES.
 • EMITTER QUANTITIES AND GALLONAGE SHALL BE AS SHOWN IN SCHEDULE FOR PLANTS WITH NORTH AND EAST EXPOSURES.
 • PLANTINGS WITH NORTH AND EAST EXPOSURE SHALL DICTATE VALVE RUN-TIMES AND CONTRACTOR SHALL ADJUST SCHEDULING ACCORDINGLY.

DRIP EMITTER
BELOW GRADE 15

DIRECTORY

IRRIGATION NOTES	IR0
IRRIGATION SCHEDULE	IR1
IRRIGATION PLANS	IR2
IRRIGATION DETAILS	IR3 - IR4

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FILE NAME: T:\6400-6499 Jobs\6449- Liberty Tree Academy\6xxx-Liberty Tree Academy-IRR-CD.dwg			
CTB FILE: ----			
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NO.	DATE	DESCRIPTION	BY
SHEET KEY			

PREPARED FOR:
LIBERTY TREE ACADEMY

PREPARED BY:
Matrix DESIGN GROUP
 AN EMPLOYEE-OWNED COMPANY

SEAL

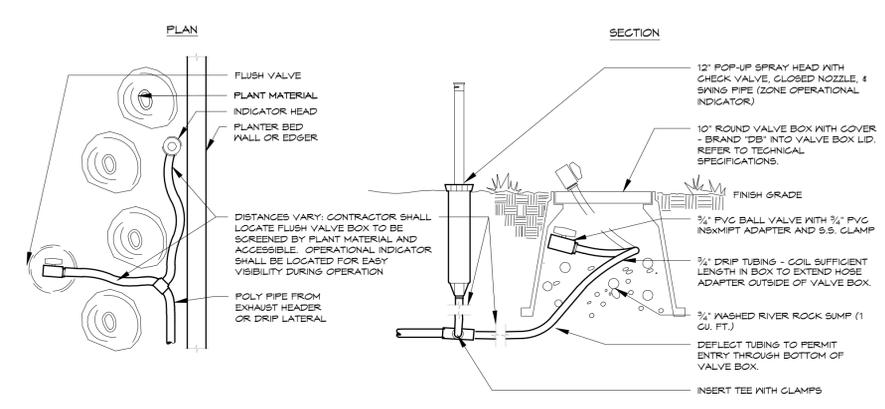
LIBERTY TREE ACADEMY
 TOWN OF PEYTON, EL PASO COUNTY
 CONSTRUCTION DOCUMENTS

IRRIGATION DETAILS

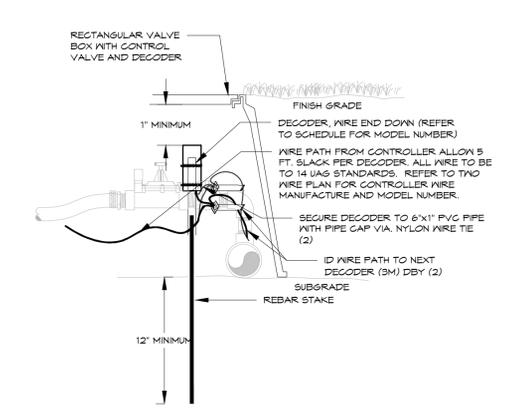
FOR AND ON BEHALF OF
 MATRIX DESIGN GROUP, INC.
 PROJECT No. 18.995.001

DESIGNED BY: KC	SCALE	DATE ISSUED: AUGUST 2018	DRAWING No.
DRAWN BY: KC	HORIZ.	SHEET 28 OF 29	IR3
CHECKED BY: KJD	VERT.		

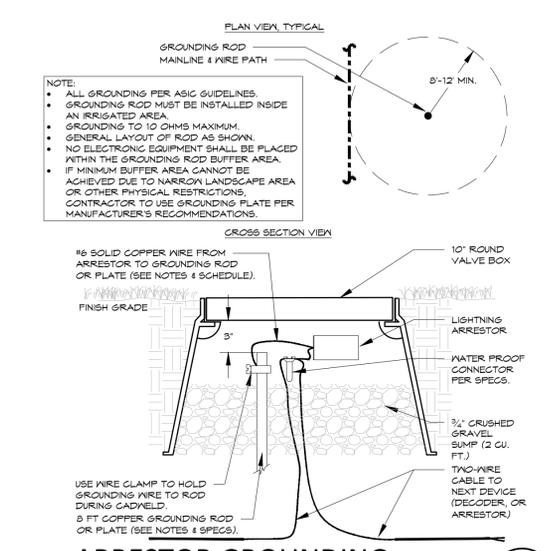
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 860 Tabor Street, Suite 200
 Lakewood, Colorado 80401
 303-980-5327
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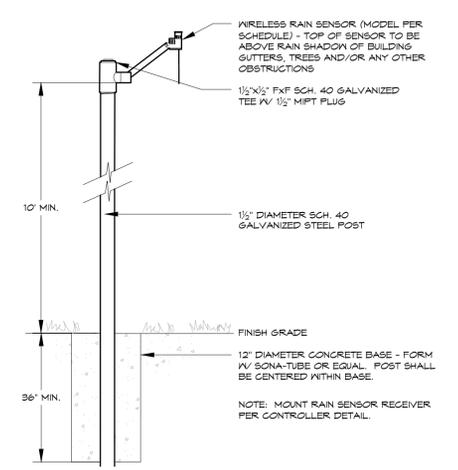
DRIP FLUSH VALVE
WITH OPERATIONAL INDICATOR 16



DECODER INSTALLATION
TWO-WIRE SYSTEM 17



ARRESTOR GROUNDING
TWO-WIRE SYSTEM - TYPICAL 18



WEATHER SENSOR
POLE MOUNTED - Wireless 19

DIRECTORY

IRRIGATION NOTES	IR0
IRRIGATION SCHEDULE	IR1
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<p>REFERENCE DRAWINGS</p> <p>LS01-SDP X:995-PR-LANDSCAPE X:995-EX-BASE X:995-EX-MAP X:995-MDS20-34 X:995-PR-BASE X:995-PR-GRAD</p>		<p>SHEET KEY</p>		<p>PREPARED FOR:</p> <p>LIBERTY TREE ACADEMY</p> <p>PREPARED BY:</p> <p>Matrix DESIGN GROUP AN EMPLOYEE-OWNED COMPANY</p>	<p>SEAL</p>	<p>LIBERTY TREE ACADEMY</p> <p>TOWN OF PEYTON, EL PASO COUNTY CONSTRUCTION DOCUMENTS</p> <p>IRRIGATION DETAILS</p>																		
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