Fittz & Shipman, Inc.

April 24, 2026

Addendum No. 1

Project: BINGMAN HEAD START DRAINAGE IMPROVEMENTS PROJECT
BEAUMONT INDEPENDENT SCHOOL DISTRICT

To: All plan holders on record

DRAWINGS

1. Replace all existing drawings with the attached Addendum #1 set, dated 04/24/2026.

END OF ADDENDUM NO. 1
FITTZ & SHIPMAN, INC.



Bernardino D. Tristan, P.E.
For the Firm

Copies to: All plan holders of record

Bingman Head Start

Drainage Improvement

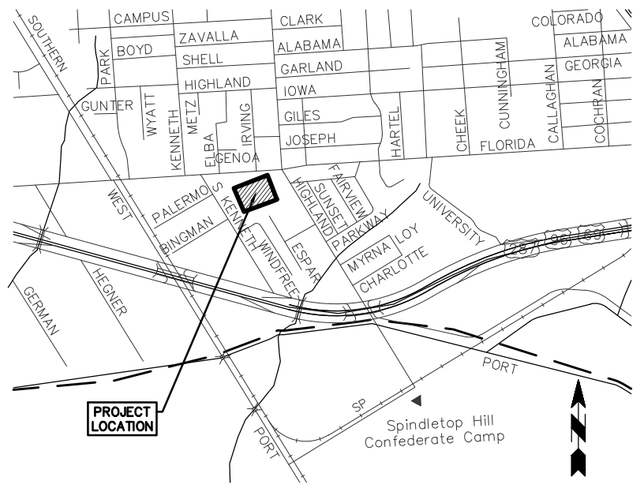
5265 Kenneth Avenue

Beaumont, Texas 77705

Jefferson County

INDEX:

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SV1.20	EXISTING TOPO
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C3.20	EROSION CONTROL
C4.10	GENERAL NOTES & DETAILS



LOCATION MAP

SCALE 1:2000

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Consulting Engineers and Land Surveyors

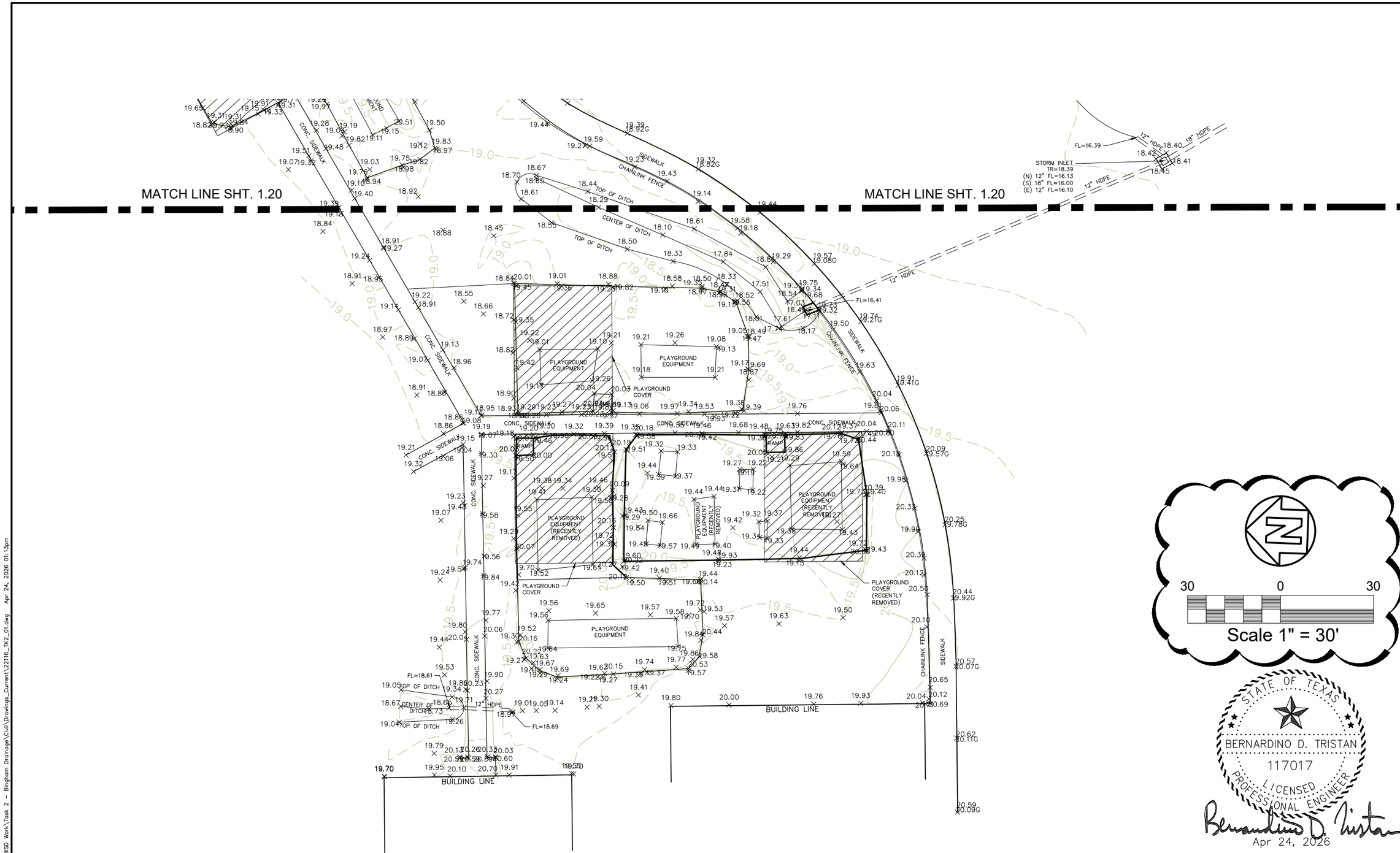
1405 CORNERSTONE COURT BEAUMONT, TEXAS

(409)832-7238 FAX (409)832-7303

Tx Board of Prof Engineers Firm No. F-01160 Tx Board of Prof Land Surveyors Firm No. 100186

STATE OF TEXAS
BERNARDINO D. TRISTAN
117017
LICENSED
PROFESSIONAL ENGINEER

Apr 24, 2026



NO.	ISSUED FOR	DATE
1	FINAL REVIEW	12-03-2025
2	PERMIT	02-20-2026
3	ADDENDUM 1	04-24-2026

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www.fittzshipman.com
T.B.P.E. Firm #1160 T.X.L.S. Firm #100186

BINGMAN HEAD START

5265 KENNETH AVENUE
BEAUMONT, TEXAS

30 0 30
Scale 1" = 30'

STATE OF TEXAS
BERNARDINO D. TRISTAN
117017
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PROFESSIONAL ENGINEER
Apr 24, 2026

FS PROJECT #	22116.000
DATE:	Apr 24, 2026
SCALE:	1" = 30'
DRAWN BY:	C.Z.
CHECK BY:	B.D.T.
FS DRAWING NAME:	22116_TK2_01

EXISTING TOPO

SV1.10

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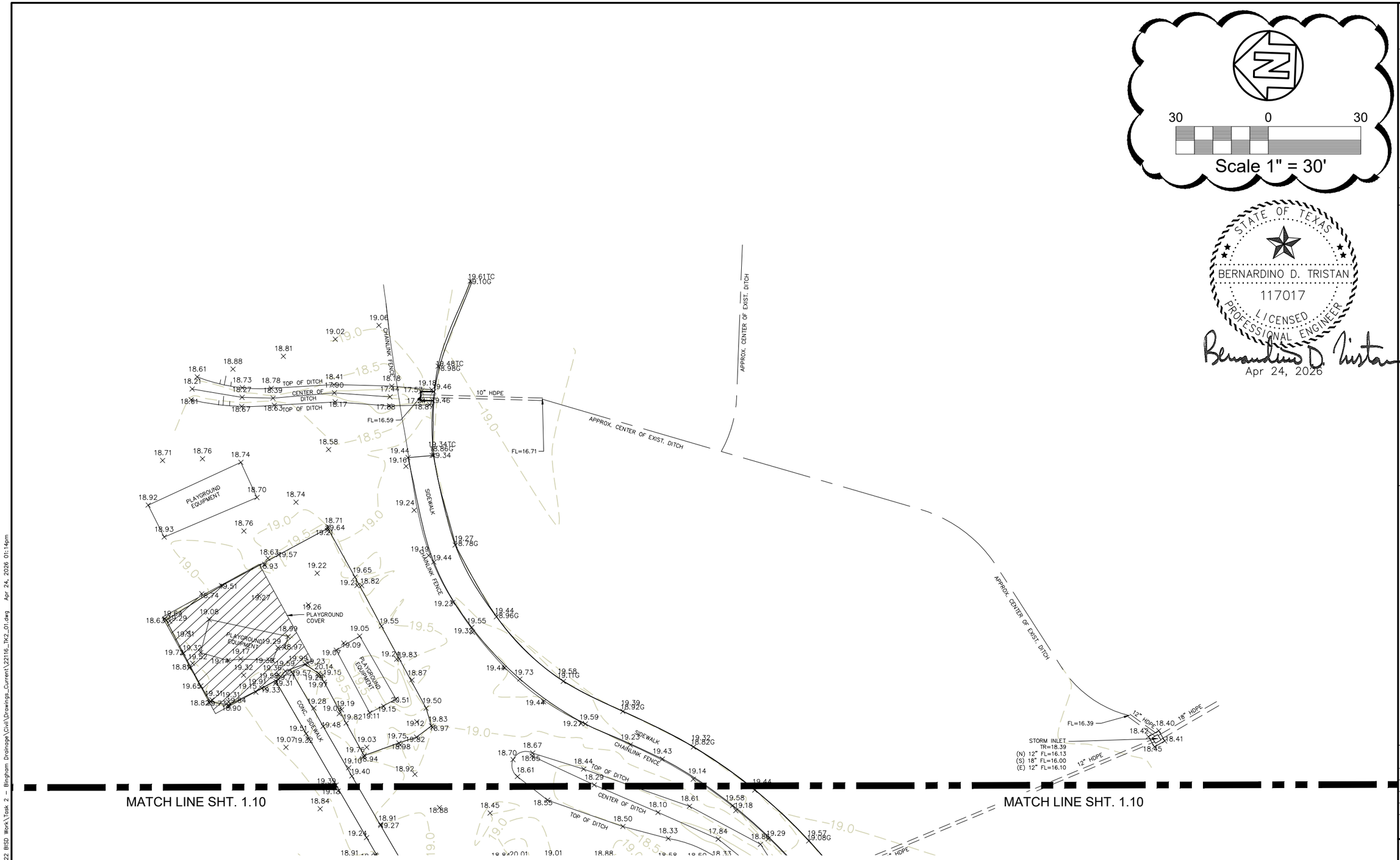
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MATCH LINE SHT. 1.20

MATCH LINE SHT. 1.20

A9
799.24 sf
0.018 ac

FL=17.00

PROP. 10" STORM 24LF

PROP. INLET WRAP GRATE TR=18.50 FL=16.65

PROP. INLET WRAP GRATE TR=18.50 FL=16.50

PROP. 12" 10LF STUB FL.=17.00

PROP. STORM INLET TR=18.50 FL=16.72

A6
980.75 sf
0.023 ac

A7
1294.31 sf
0.030 ac

PROP. 10" STORM 46LF

PROP. 12" STORM 28LF

PROP. JUNCTION BOX TR=19.35 FL=16.41

PROP. 12" STORM 48LF

PLAYGROUND EQUIPMENT

PLAYGROUND EQUIPMENT

PLAYGROUND COVER

A8
1749.56 sf
0.040 ac

RAMP

CONC. SIDEWALK

CONC. SIDEWALK

CONC. SIDEWALK

CONC. SIDEWALK

CONC. SIDEWALK

CONC. SIDEWALK

SIDEWALK

CHAINLINK FENCE

CHAINLINK FENCE

SIDEWALK

FL=16.41

FL=16.39

STORM INLET TR=18.39
(N) 12" FL=16.13
(S) 18" FL=16.00
(E) 12" FL=16.10

12" HDPE

12" HDPE

18" HDPE

PROP. 10" STORM 38LF

A4
1908.63 sf
0.044 ac

PROP. STORM INLET TR=19.25 FL=16.68

PROP. 12" STORM 41LF

A5
2610.34 sf
0.060 ac

A3
1964.10 sf
0.045 ac

PROP. 10" STORM 38LF

PROP. 10" STORM 39LF

PROP. STORM INLET TR=19.25 FL=16.80

PROP. STORM INLET TR=19.25 FL=16.56

PROP. INLET WRAP GRATE TR=19.25 FL=16.92

PLAYGROUND COVER

A1
1758.55 sf
0.040 ac

PLAYGROUND EQUIPMENT

A2
2032.62 sf
0.047 ac

PROP. 10" STORM 41LF

PROP. STORM INLET TR=19.25 FL=16.68

FL=18.61

TOP OF DITCH

CENTER OF DITCH

TOP OF DITCH

12" HDPE

FL=18.69

PROP. INLET WRAP GRATE TR=19.25 FL=16.80

BUILDING LINE

20 0 20

Scale 1" = 20'

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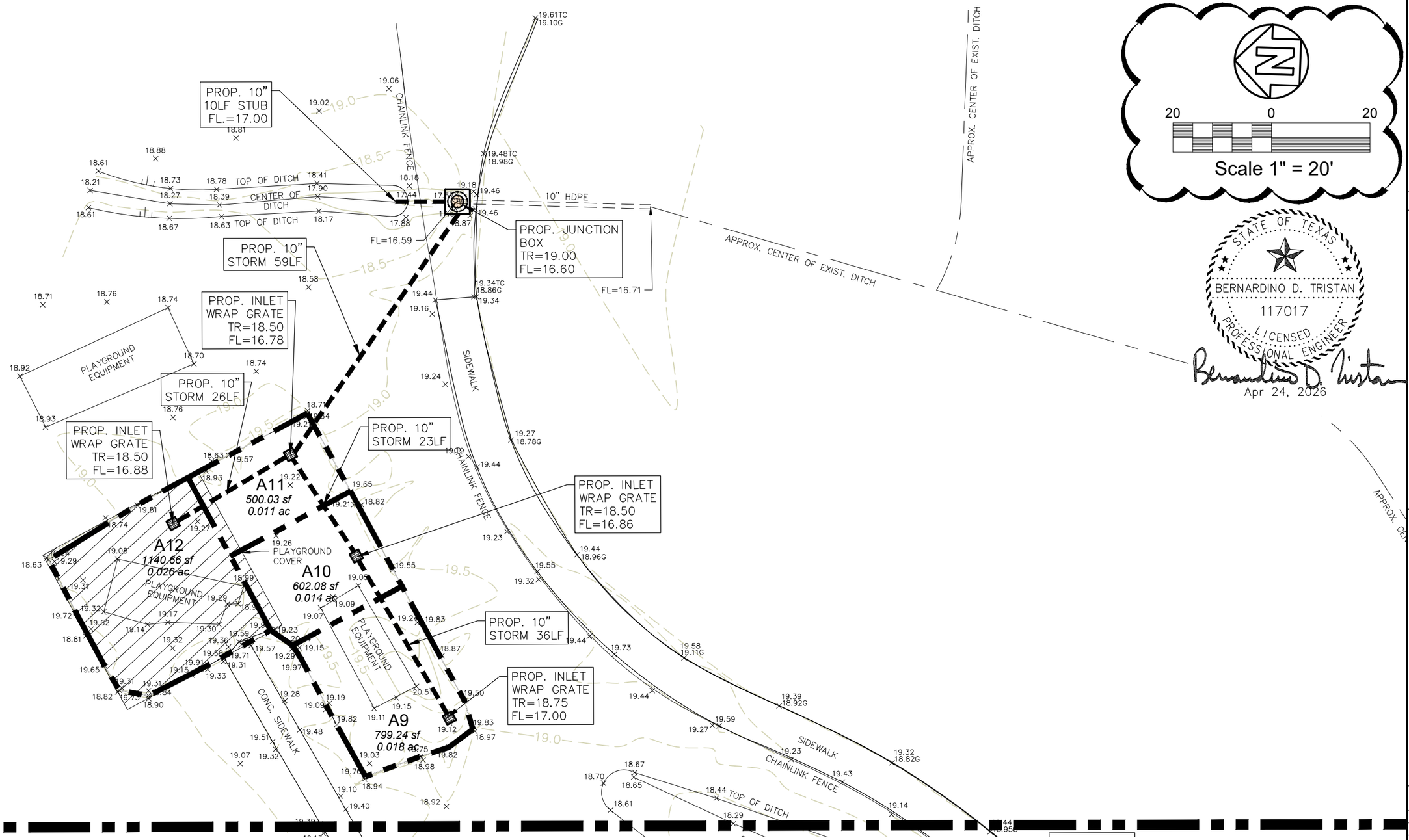
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DRAINAGE AREA PLAN

C1.10

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Drainage Area Computations

Job Name:	Bingman Head Start- Drainage Improvement				Jefferson Co.	Des. Freq.	2		5		10		25		50		100	
Job No.:	22116.0000	02/20/26		$I=b/(t+d)^e$	Atlas 14	b=	67.1216	b=	80.22	b=	88.32	b=	97.22	b=	101.38	b=	105.57	
				$Tc=10A^{0.1761+15}$	Zone 1	d=	13.2828	d=	13.47	d=	13.43	d=	13.33	d=	13.05	d=	12.99	
				DRAINAGE AREA COMPUTATIONS	2019	e=	0.8004	e=	0.772	e=	0.752	e=	0.727	e=	0.707	e=	0.687	

DRAINAGE AREA NO.	TOTAL AREA (Ac.)	Playground C 0.35	Building C 0.97	Grass C 0.25	Combined C.A	Time of Concent. (min.)	i_2 (in./hr.)	Q_2 (c.f.s.)	i_5 (in./hr.)	Q_5 (c.f.s.)	i_{10} (in./hr.)	Q_{10} (c.f.s.)	i_{25} (in./hr.)	Q_{25} (c.f.s.)	i_{50} (in./hr.)	Q_{50} (c.f.s.)	i_{100} (in./hr.)	Q_{100} (c.f.s.)
Post-Construction Conditions																		
A1	0.040	0.040	0.000	0.000	0.014	20.7	3.99	0.06	5.26	0.07	6.21	0.09	7.48	0.11	8.43	0.12	9.42	0.13
A2	0.047	0.000	0.000	0.047	0.012	20.8	3.98	0.05	5.24	0.06	6.19	0.07	7.46	0.09	8.41	0.10	9.39	0.11
A3	0.045	0.000	0.032	0.014	0.034	20.8	3.98	0.14	5.24	0.18	6.20	0.21	7.47	0.25	8.41	0.29	9.40	0.32
A4	0.044	0.000	0.000	0.044	0.011	20.8	3.99	0.04	5.25	0.06	6.20	0.07	7.47	0.08	8.42	0.09	9.40	0.10
A5	0.060	0.000	0.000	0.060	0.015	21.1	3.96	0.06	5.21	0.08	6.16	0.09	7.42	0.11	8.36	0.13	9.34	0.14
A6	0.023	0.000	0.000	0.023	0.006	20.1	4.05	0.02	5.32	0.03	6.29	0.04	7.57	0.04	8.53	0.05	9.53	0.05
A7	0.030	0.000	0.030	0.000	0.029	20.4	4.02	0.12	5.29	0.15	6.25	0.18	7.53	0.22	8.48	0.24	9.48	0.27
A8	0.040	0.040	0.000	0.000	0.014	20.7	3.99	0.06	5.26	0.07	6.21	0.09	7.48	0.11	8.43	0.12	9.42	0.13
A9	0.018	0.018	0.000	0.000	0.006	19.9	4.06	0.03	5.35	0.03	6.32	0.04	7.60	0.05	8.56	0.05	9.56	0.06
A10	0.014	0.012	0.001	0.000	0.006	19.7	4.09	0.02	5.38	0.03	6.35	0.04	7.64	0.04	8.61	0.05	9.61	0.05
A11	0.011	0.010	0.001	0.000	0.005	19.6	4.10	0.02	5.40	0.03	6.37	0.03	7.67	0.04	8.64	0.04	9.64	0.05
A12	0.026	0.000	0.026	0.000	0.025	20.3	4.03	0.10	5.31	0.13	6.27	0.16	7.55	0.19	8.51	0.22	9.50	0.24
SUM	**0.398**				0.176			0.71		0.93		1.10		1.32		1.49		1.67

5 Yr. Storm

																Jefferson Co	Freq =	5												
Job Name:	Bingman Head Start- Drainage Improvement															Atlas 14	b=	80.22		$I=b/(t+d)^e$				n=	0.012	HDPE pipe				
Job No.:	22116.0000	02/20/26														Zone 1	d=	13.47		$Tc=10A^{0.1761+15}$				n=	0.030	earth ditch				
																2019	e=	0.772							PIPE					

FROM NO.	TO	Drainage Areas	TOTAL DA (Ac.)	TOTAL CA	LNGTH (ft)	Time of Concentration Along sewer line						Inlet Time	Used in Design	I (in/hr)	Freq = Q (cfs)	No. (#)	Dia. (in.)	DESIGN Slope %	Cap. (cfs)	Vel. (ft/sec)	REMARKS +/- /\ Q
A1	A2	A1	0.04	0.01	41							20.7	20.7	5.26	0.07	1	10	0.30	1.30	2.39	1.23
A2	A5	A1+A2	0.09	0.03	39	20.7	+	39	/ 2.4	(60)=	21.0	21.5	21.5	5.16	0.13	1	10	0.30	1.30	2.39	1.17
A3	A4	A3	0.05	0.03	48	21.5	+	48	/ 2.4	(60)=	21.8	20.8	21.8	5.12	0.17	1	10	0.30	1.30	2.39	1.13
A4	A5	A3+A4	0.09	0.04	41	21.8	+	41	/ 2.4	(60)=	22.1	21.5	22.1	5.09	0.23	1	12	0.30	2.12	2.70	1.89
A5	OUT	A1—>A5	0.24	0.09	48	22.1	+	48	/ 2.7	(60)=	22.4	22.8	22.8	5.02	0.43	1	12	0.30	2.12	2.70	1.69
A6	A7	A6	0.02	0.01	24							20.1	20.1	5.32	0.03	1	10	0.30	1.30	2.39	1.27
A7	A8	A6+A7	0.05	0.03	46	20.1	+	46	/ 2.4	(60)=	20.4	20.9	20.9	5.23	0.18	1	10	0.30	1.30	2.39	1.12
A8	OUT	A6—>A8	0.09	0.05	28	20.9	+	28	/ 2.4	(60)=	21.1	21.6	21.6	5.15	0.25	1	12	0.30	2.12	2.70	1.87
A9	A10	A9	0.02	0.01	36							19.9	19.9	5.35	0.03	1	10	0.30	1.30	2.39	1.27
A10	A11	A9+A10	0.03	0.01	23	19.9	+	23	/ 2.4	(60)=	20.1	20.5	20.5	5.28	0.06	1	10	0.30	1.30	2.39	1.24
A12	A11	A12	0.03	0.03	26	20.5	+	26	/ 2.4	(60)=	20.6	20.3	20.6	5.26	0.13	1	10	0.30	1.30	2.39	1.17
A11	OUT	A9—>A12	0.07	0.04	59	20.6	+	59	/ 2.4	(60)=	21.1	21.3	21.3	5.19	0.22	1	10	0.30	1.30	2.39	1.08

100 Yr. Storm

																Jefferson Co	Freq =	100												
Job Name:	Bingman Head Start- Drainage Improvement															Atlas 14	b=	105.57		$I=b/(t+d)^e$				n=	0.012	HDPE pipe				
Job No.:	22116.0000	02/20/26														Zone 1	d=	12.99		$Tc=10A^{0.1761+15}$				n=	0.030	earth ditch				
																2019	e=	0.687							PIPE					

FROM NO.	TO	Drainage Areas	TOTAL DA (Ac.)	TOTAL CA	LNGTH (ft)	Time of Concentration Along sewer line						Inlet Time	Used in Design	I (in/hr)	Freq = Q (cfs)	No. (#)	Dia. (in.)	DESIGN Slope %	Cap. (cfs)	Vel. (ft/sec)	REMARKS +/- /\ Q
A1	A2	A1	0.04	0.01	41							20.7	20.7	9.42	0.13	1	10	0.30	1.30	2.39	1.17
A2	A5	A1+A2	0.09	0.03	39	20.7	+	39	/ 2.4	(60)=	21.0	21.5	21.5	9.26	0.24	1	10	0.30	1.30	2.39	1.06
A3	A4	A3	0.05	0.03	48	21.5	+	48	/ 2.4	(60)=	21.8	20.8	21.8	9.20	0.31	1	10	0.30	1.30	2.39	0.99
A4	A5	A3+A4	0.09	0.04	41	21.8	+	41	/ 2.4	(60)=	22.1	21.5	22.1	9.15	0.41	1	12	0.30	2.12	2.70	1.71
A5	OUT	A1—>A5	0.24	0.09	48	22.1	+	48	/ 2.7	(60)=	22.4	22.8	22.8	9.04	0.78	1	12	0.30	2.12	2.70	1.34
A6	A7	A6	0.02	0.01	24							20.1	20.1	9.53	0.05	1	10	0.30	1.30	2.39	1.25
A7	A8	A6+A7	0.05	0.03	46	20.1	+	46	/ 2.4	(60)=	20.4	20.9	20.9	9.37	0.32	1	10	0.30	1.30	2.39	0.98
A8	OUT	A6—>A8	0.09	0.05	28	20.9	+	28	/ 2.4	(60)=	21.1	21.6	21.6	9.25	0.45	1	12	0.30	2.12	2.70	1.67
A9	A10	A9	0.02	0.01	36							19.9	19.9	9.56	0.06	1	10	0.30	1.30	2.39	1.24
A10	A11	A9+A10	0.03	0.01	23	19.9	+	23	/ 2.4	(60)=	20.1	20.5	20.5	9.46	0.11	1	10	0.30	1.30	2.39	1.19
A12	A11	A12	0.03	0.03	26	20.5	+	26	/ 2.4	(60)=	20.6	20.3	20.6	9.43	0.24	1	10	0.30	1.30	2.39	1.06
A11	OUT	A9—>A12	0.07	0.04	59	20.6	+	59	/ 2.4	(60)=	21.1	21.3	21.3	9.31	0.39	1	10	0.30	1.30	2.39	0.91

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DRAINAGE CALCULATIONS

C1.30

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MATCH LINE SHT. 2.20

MATCH LINE SHT. 2.20

WRAP GRATE
TR=18.75
FL=17.00

PROP. INLET
WRAP GRATE
TR=18.50
FL=16.65

PROP. INLET
WRAP GRATE
TR=18.50
FL=16.50

PROP. STORM INLET
TR=18.50
FL=16.72

PROP. STORM
INLET
TR=19.25
FL=16.68

PROP. STORM INLET
TR=19.25
FL=16.80

PROP. INLET
WRAP GRATE
TR=19.25
FL=16.92

PROP. STORM INLET
TR=19.25
FL=16.56

PROP. STORM INLET
TR=19.25
FL=16.68

PROP. INLET
WRAP GRATE
TR=19.25
FL=16.80

PROP. JUNCTION
BOX
TR=19.35
FL=16.41

EXIST. PAVE.
TO BE REMOVED

EXIST. DITCH
TO BE FILLED
15LF

FL=16.41

FL=16.39
12" HDPE
18" HDPE
18.40
18.42
18.41
18.45
STORM INLET
TR=18.39
(N) 12" FL=16.13
(S) 18" FL=16.00
(E) 12" FL=16.10
12" HDPE

FL=18.61
FL=18.69

SITE GRADING NOTE:

1.) ALL INLETS IN THE PLAYGROUND AREA ARE TO BE WRAPPED WITH FILTER FABRIC TO PREVENT CLOGGING

PLAYGROUND EQUIPMENT
PLAYGROUND EQUIPMENT
PLAYGROUND COVER
PLAYGROUND COVER
PLAYGROUND EQUIPMENT
RAMP

SIDEWALK
CHAINLINK FENCE
TOP OF DITCH
CENTER OF DITCH
TOP OF DITCH
CONC. SIDEWALK
CONC. SIDEWALK
CONC. SIDEWALK
CONC. SIDEWALK
CONC. SIDEWALK
CONC. SIDEWALK
CONC. SIDEWALK
CHAINLINK FENCE
SIDEWALK
CONC. SIDEWALK
TOP OF DITCH
CENTER OF DITCH
TOP OF DITCH
12" HDPE
BUILDING LINE

20 0 20
Scale 1" = 20'

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BINGMAN HEAD START

5265 KENNETH AVENUE
BEAUMONT, TEXAS

STATE OF TEXAS
BERNARDINO D. TRISTAN
117017
LICENSED
PROFESSIONAL ENGINEER
Apr 24, 2026

FS PROJECT #	22116.000
DATE:	Apr 24, 2026
SCALE:	1" = 20'
DRAWN BY:	C.Z.
CHECK BY:	B.D.T.
FS DRAWING NAME:	22116_TK2_01

GRADING PLAN

C2.10

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EXIST. DITCH TO BE FILLED 15LF

EXIST. PAVE. TO BE REMOVED

EXIST. DITCH TO BE REGRADED 68LF

EXIST. DITCH TO BE REGRADED FROM PIPE END TO PIPE END 225LF

APPROX. CENTER OF EXIST. DITCH

PROP. JUNCTION BOX TR=19.00 FL=16.60

PROP. INLET WRAP GRATE TR=18.50 FL=16.78

PROP. INLET WRAP GRATE TR=18.50 FL=16.88

PROP. INLET WRAP GRATE TR=18.50 FL=16.86

PROP. INLET WRAP GRATE TR=18.75 FL=17.00

PROP. INLET WRAP GRATE TR=18.50 FL=16.65

PROP. INLET WRAP GRATE

10" HDPE

FL=16.59

FL=16.71

CHAINLINK FENCE

TOP OF DITCH

CENTER OF DITCH

SIDEWALK

CONC. SIDEWALK

PLAYGROUND EQUIPMENT

PLAYGROUND COVER

MATCH LINE SHT. 2.10

MATCH LINE SHT. 2.10

20 0 20

Scale 1" = 20'

SITE GRADING NOTES:

1.) ALL LANDSCAPE/GRASSY AREAS SHALL BE FINE GRADED TO ALLOW POSITIVE DRAINAGE AND NOT ALLOW AREAS OF PONDING WATER.

2.) FIELD VERIFY THE EXISTING BUILDING DIMENSIONS AND ELEVATIONS, PRIOR TO CONSTRUCTION.

3.) CONTRACTOR TO LOCATE ALL AREAS IN WHICH WATER IS COLLECTED AND GRADE AREAS TO PREVENT STANDING WATER.

4.) FIELD VERIFY THE EXISTENCE OF UTILITIES ON SITE SHOWN AND NOT SHOWN BEFORE WORK TO BEGIN.

5.) EXISTING LANDSCAPE NOT SHOWN, CONTRACTOR TO AVOID DAMAGING OR REMOVING EXISTING LANDSCAPING. EXISTING MAY BE RELOCATED OR OFFSET ELSEWHERE ON SITE.

SITE GRADING NOTE:

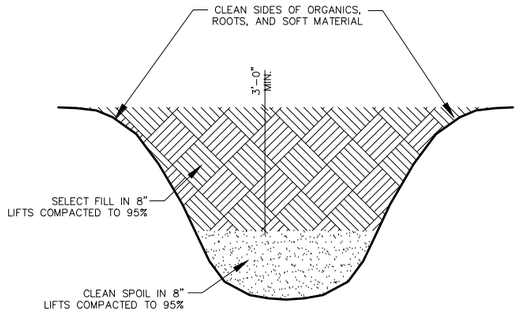
1.) ALL INLETS IN THE PLAYGROUND AREA ARE TO BE WRAPPED WITH FILTER FABRIC TO PREVENT CLOGGING

2.) REMOVE GRASS & DEBRIS FROM ALL PAVEMENT CURB OPENINGS TO ALLOW FLOW TO DITCHES

NOTE:

SELECT FILL SHOULD THAN BE PLACED UNDER LABORATORY CONTROL, IN NO GREATER THAN 8" LOOSE LAYERS, AND COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY UNIT WEIGHT, AS OBTAINED IN THE LABORATORY BY MEANS ASTM D-698 PROCEDURE. MOISTURE CONTENT OF ±2% OPTIMUM SHOULD BE MAINTAINED DURING PLACEMENT OF THE SELECT FILL MATERIAL.

THE MATERIAL USED AS SELECT FILL SHOULD CONSIST OF A NON-ACTIVE SANDY CLAY OR CLAYEY SAND TYPE SUBSTANCE, HAVING A LIQUID LIMIT OF 36 OR LESS AND PLASTICITY INDEX (P.I.) VARYING FROM 10 TO 20.



Existing Ditch Fill-In Detail

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GRADING PLAN

C2.20

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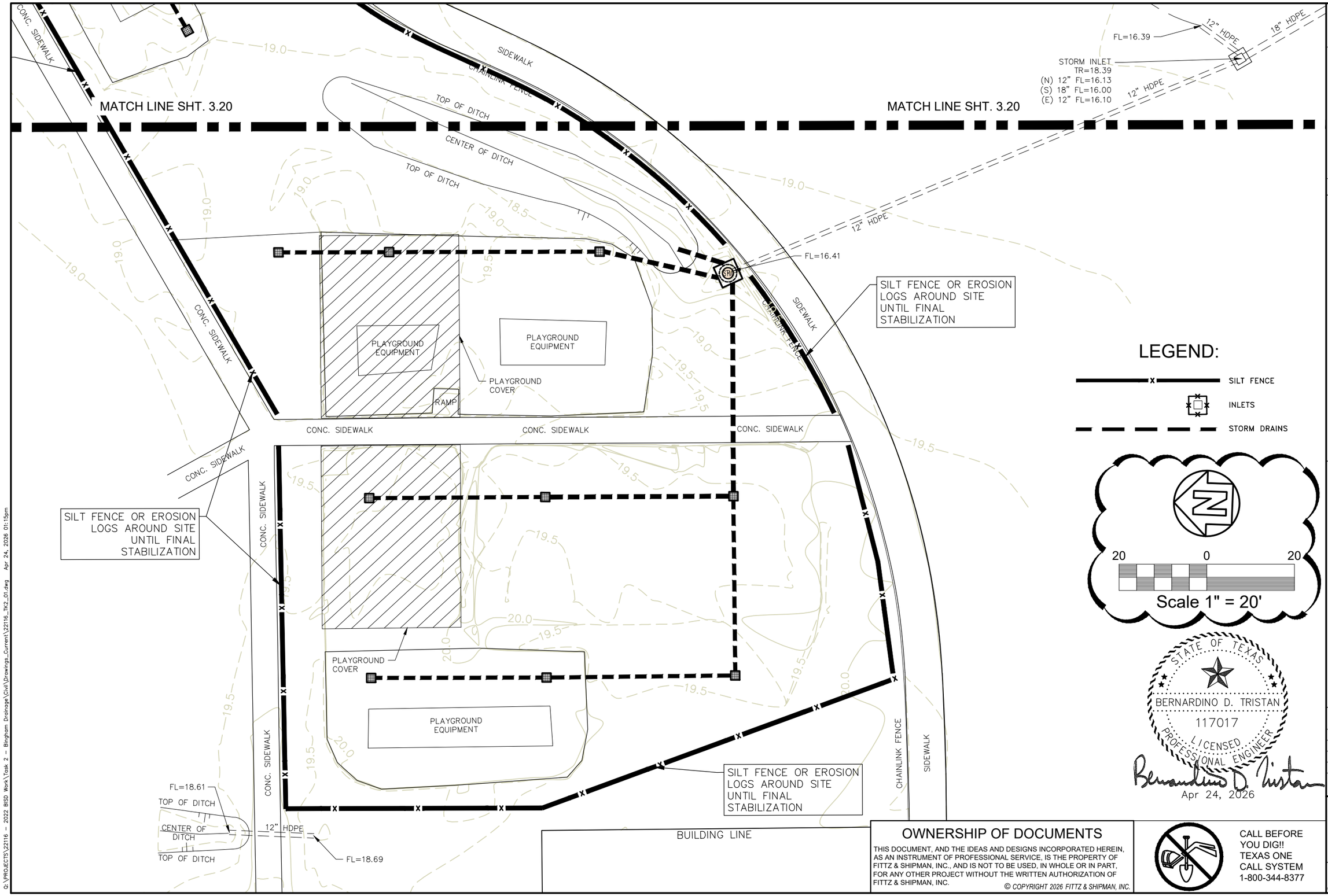
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LEGEND:

- SILT FENCE
- INLETS
- STORM DRAINS

20 0 20

Scale 1" = 20'

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EROSION CONTROL PLAN

C3.10

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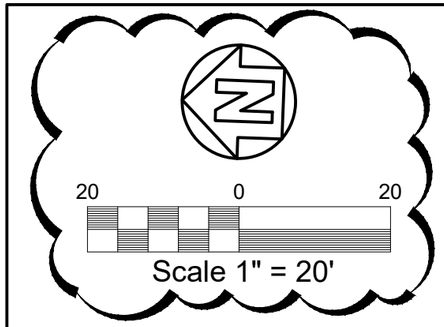
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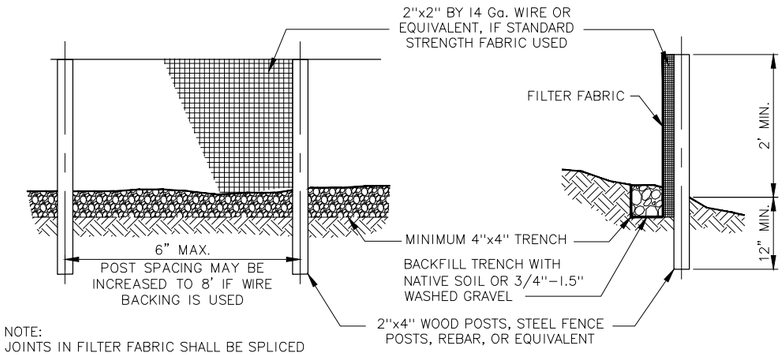
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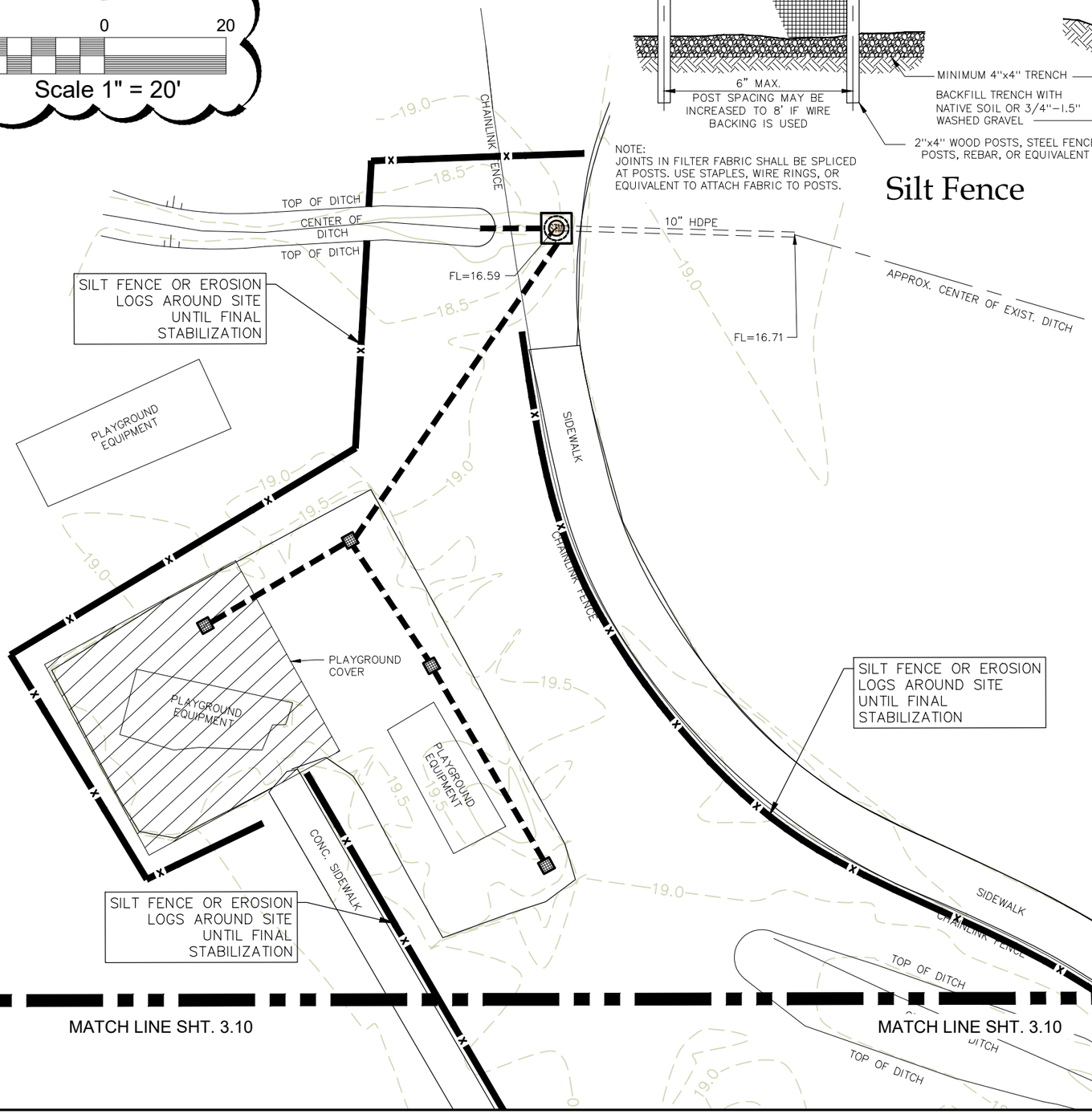
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NOTE:
JOINTS IN FILTER FABRIC SHALL BE SPLICED AT POSTS. USE STAPLES, WIRE RINGS, OR EQUIVALENT TO ATTACH FABRIC TO POSTS.

Silt Fence



EROSION CONTROL NOTES

1. CONTRACTOR SHALL DEVELOP A STORM WATER POLLUTION PREVENTION PLAN (SWP3) IN ACCORDANCE WITH TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) RULES FOR THE SITE. SWP3 PLAN SHALL BE BASED ON THIS DRAWING OR MODIFIED AS REQUIRED.
2. SWP3 SHALL CONTAIN:
   - A. SITE DESCRIPTION OR PROJECT DESCRIPTION INCLUDING NATURE OF CONSTRUCTION ACTIVITY, POTENTIAL POLLUTANTS AND SOURCES
   - B. DESCRIPTION OF INTENDED PROJECT SCHEDULE
   - C. ACREAGE OF SITE
   - D. DATA DESCRIBING SOIL OR QUALITY OF DISCHARGE FROM SITE
   - E. GENERAL LOCATION MAP OF SITE
   - F. DETAILED SITE MAP INDICATING DRAINAGE PATTERNS, PROPOSED CONTROLS.
   - G. EROSION AND SEDIMENT CONTROLS SELECTED
   - H. SOIL STABILIZATION METHODS
3. SWP3 PLAN SHALL DESCRIBE PRACTICES TO REDUCE POLLUTANTS IN STORM WATER DISCHARGE, DAILY/WEEKLY SITE INSPECTIONS AND LIST RESPONSIBLE PERSON.
4. CONTRACTOR SHALL SUBMIT A NOTICE OF INTENT (NOI) TO TCEQ PRIOR TO DISTURBANCE OF THE SITE.
5. SWP3 PLAN MUST BE RETAINED AT THE CONSTRUCTION SITE AND MADE AVAILABLE TO CITY AND TCEQ INSPECTORS.
6. CONTRACTOR SHALL INSTALL EROSION CONTROL DEVICES INDICATED ON THIS PLAN AND SWP3 PLAN PRIOR TO CONSTRUCTION AT SITE.
7 CONTRACTOR SHALL PERFORM PERIODIC MAINTENANCE AND REPAIR AND/OR REPLACE DEVICES WHEN REQUIRED TO CONTAIN SEDIMENTS AND POLLUTANTS ON THE SITE UNTIL CONSTRUCTION IS COMPLETE AND SITE HAS REACHED FINAL STABILIZATION.
8. CONTRACTOR SHALL SUBMIT A NOTICE OF TERMINATION (NOT) TO TCEQ ONCE CONSTRUCTION IS COMPLETE AND SITE HAS REACHED FINAL STABILIZATION.
9. ALL CITY STREETS SHALL BE KEPT FREE OF ALL CONSTRUCTION MATERIALS AND SHALL BE CLEANED AT THE END OF EACH WORK DAY.

TEMPORARY EROSION AND SEDIMENTATION CONTROL (TESC)

1. THE IMPLEMENTATION OF THESE TESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE TESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/TESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.

2. THE TESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.

3. THE TESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE TESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G., ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.).

4. THE TESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/TESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING.

5. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED TESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).

6. ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY.

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Apr 24, 2026

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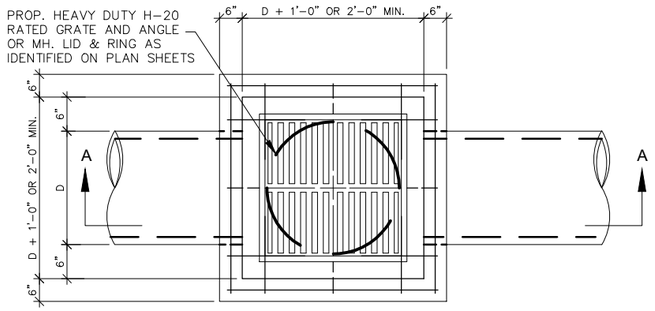
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EROSION CONTROL PLAN

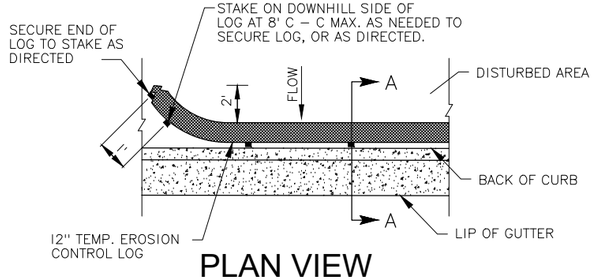
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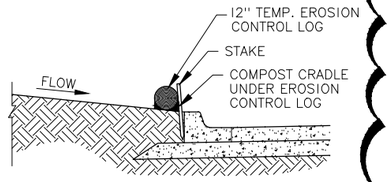
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PLAN



PLAN VIEW



SECTION A-A

1. LENGTHS OF EROSION CONTROL LOGS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS REQUIRED FOR THE PURPOSE INTENDED. MAXIMUM LENGTH OF LOGS SHALL BE 60' FOR 18" DIAMETER OR 30' FOR 12" DIAMETER LOGS.

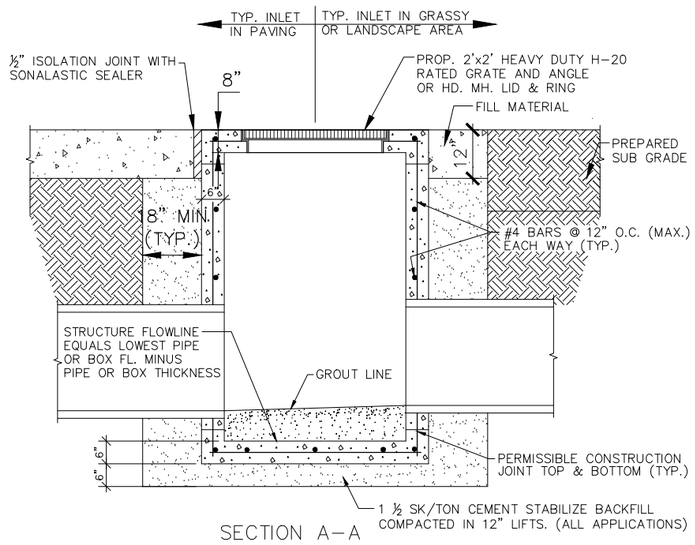
2. UNLESS OTHERWISE DIRECTED, USE BIODEGRADABLE OR PHOTODEGRADABLE CONTAINMENT MESH ONLY WHERE LOG WILL REMAIN IN PLACE AS PART OF A VEGETATIVE SYSTEM. FOR TEMPORARY INSTALLATIONS, USE RECYCLABLE CONTAINMENT MESH.

3. STUFF LOGS WITH SUFFICIENT FILTER MATERIAL TO ACHIEVE DENSITY THAT WILL HOLD SHAPE WITHOUT EXCESSIVE DEFORMATION.

4. STAKES SHALL BE 2" X 2" WOOD OR #3 REBAR, 4' LONG, EMBEDDED SUCH THAT 2" PROTRUDES ABOVE LOG, OR AS DIRECTED.

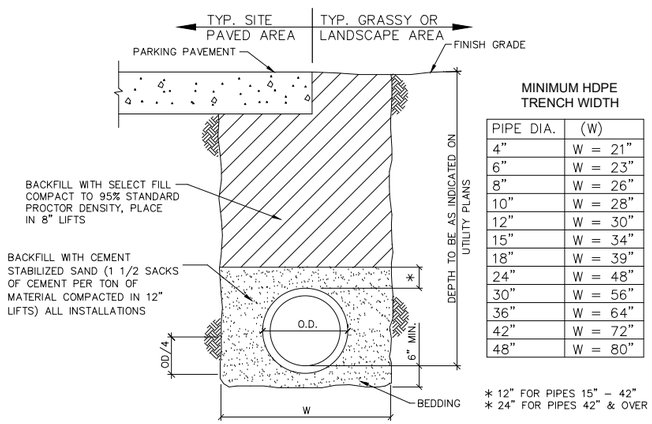
5. DO NOT PLACE STAKES THROUGH CONTAINMENT MESH.

Log Placement at Edge of Pavement



SECTION A-A

Storm Sewer Inlet

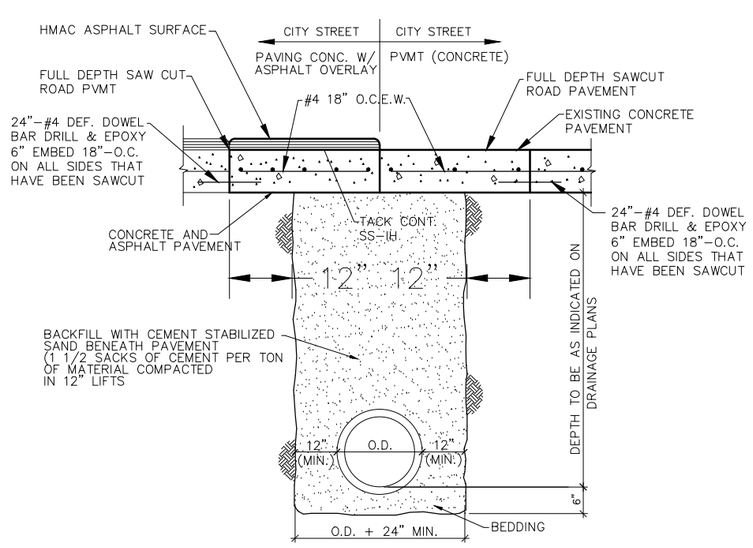


MINIMUM HDPE TRENCH WIDTH

PIPE DIA.	(W)
4"	W = 21"
6"	W = 23"
8"	W = 26"
10"	W = 28"
12"	W = 30"
15"	W = 34"
18"	W = 39"
24"	W = 48"
30"	W = 56"
36"	W = 64"
42"	W = 72"
48"	W = 80"

* 12" FOR PIPES 15" – 42"
* 24" FOR PIPES 42" & OVER

Trench Cut for HDPE Storm Sewer Lines



Trench Cut For Storm Sewer Lines Under Pavement/Street Pavement Repair

SPECIFICATION DATA

PAVING & DRAINAGE

1. REMOVE ALL TOPSOIL TO APPROX. DEPTH OF 12 INCHES. THEN SCARIFY THE SUBGRADE TO A DEPTH OF 8 INCHES AND RE-COMPACT TO 95% STD PROCTOR DENSITY ASTM D-698 IN ACCORDANCE WITH TXDOT ITEM 260. CONTRACTOR TO PERFORM SOIL DENSITY TESTING FOR ALL PAVING AND BACKFILLING DRAINAGE DITCH AT 8" LIFTS. ALL TESTING TO BE AT CONTRACTORS EXPENSE.
2. ALL CONCRETE FOR PAVING TO BE 3500 PSI COMPRESSIVE STRENGTH @ 28 DAYS. SAWING OF JOINTS SHALL BEGIN AS SOON AS WORKABLE AND SHALL BE COMPLETED BEFORE 24 HOURS HAVE ELAPSED. ANY RANDOM CRACKING OF THE PAVEMENT DUE TO INCOMPLETE SAWING OPERATIONS SHALL REQUIRE THE REMOVAL AND REPLACEMENT OF THE DAMAGED SECTION AT THE CONTRACTOR'S EXPENSE. BEAM SAMPLES SHALL BE MADE FOR CONCRETE PAVEMENT TESTING.
3. STEEL REINFORCEMENT FOR PAVEMENT SHALL BE GRADE 60 STEEL #5 REBAR @ 12" O.C.E.W. WITH PLASTIC REINF. SUPPORTS @ 48" O.C.E.W.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION OF CONCRETE PAVEMENTS TO PROPER THICKNESS AS PROVIDED IN THE CONSTRUCTION PLANS AND SPECIFICATIONS. INSPECTION OF FORMS AND GRADING WILL BE CONDUCTED PRIOR TO PLACEMENT OF CONCRETE AND RANDOM CORE SAMPLES WILL BE CONDUCTED AFTER COMPLETION PER SPECIFICATIONS TO MEASURE THICKNESS. CONTRACTOR WILL HAVE ULTIMATE RESPONSIBILITY FOR PROPER CONCRETE PAVEMENTS.
5. EXPANSION JOINTS TO BE PLACED @ ALL RADIUS RETURNS AND WHEN TYING INTO EXISTING PAVEMENTS.
6. STORM SEWER & CULVERT PIPE SHALL BE OF THE FOLLOWING MATERIALS:
   A. AASHTO M294 SMOOTH WALL CORRUGATED POLYETHYLENE PIPE WITH LOCKING PUSH ON JOINTS SMOOTH INTERIOR WALL CORRUGATED POLYETHYLENE PIPE INSTALLED WITH BEDDING ACCORDING TO MANUFACTURERS RECOMMENDATIONS (8" – 42").
   B. STORM PIPE, 12" DIAMETER OR SMALLER, CONNECTED TO ROOF DRAINS MAY BE SCHEDULE 40 PVC IN LIEU OF ADS N-12.
7. BACKFILL ALL HDPE PIPE ON SAME DAY AS INSTALLATION.
8. ALL EXPOSED CONCRETE CORNERS OF MANHOLES, INLETS, OR OTHER STRUCTURES SHALL BE CHAMFERED 1".
9. CONTRACTOR SHALL BACKFILL AROUND ALL MANHOLES, INLETS, AND CATCH BASINS, WITH CEMENT STABILIZED SAND COMPACTED TO FILL ALL VOID CEMENT STABILIZED SAND SHALL NOT CONTAIN LESS THAN 1 1/2 SACKS CEMENT PER TON OF TOTAL MIXTURE.
10. CONTRACTOR SHALL INCLUDE BACKFILL BEHIND CURB AND PROVIDE TOPSOIL FOR AREAS DISTURBED. THIS WORK WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE SUBSIDIARY TO THE VARIOUS BID ITEMS.
11. EROSION CONTROL DEVICES TO CONTROL/CONTAIN SEDIMENT RUNOFF AND TO PREVENT TRACKING ONTO PUBLIC STREETS MUST BE PROPERLY INSTALLED AND MAINTAINED DURING ALL PHASES OF CONSTRUCTION AND MUST REMAIN IN PLACE UNTIL BUILDING ERECTION AND/OR PAVING WORK IS COMPLETE AND/OR ADEQUATE VEGETATION IS ESTABLISHED TO PREVENT EROSION OF SOILS INTO STREETS OR DRAINAGE SYSTEMS.
12. CONTRACTOR SHALL SUBMIT A TRAFFIC PLAN TO THE ENGINEER WHICH CONFORMS TO THE MOST CURRENT TMUTCD.
13. OWNER SHALL PROVIDE A MINIMUM OF 1 (ONE) SET OF COMPRESSIVE STRENGTH TEST RESULT FOR EACH 100 CY. OF CONCRETE OR A FRACTION THEREOF. RE-TESTING FOR FAILED SAMPLES SHALL BE PAID FOR BY THE CONTRACTOR.

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GENERAL NOTES & SITE DETAILS

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