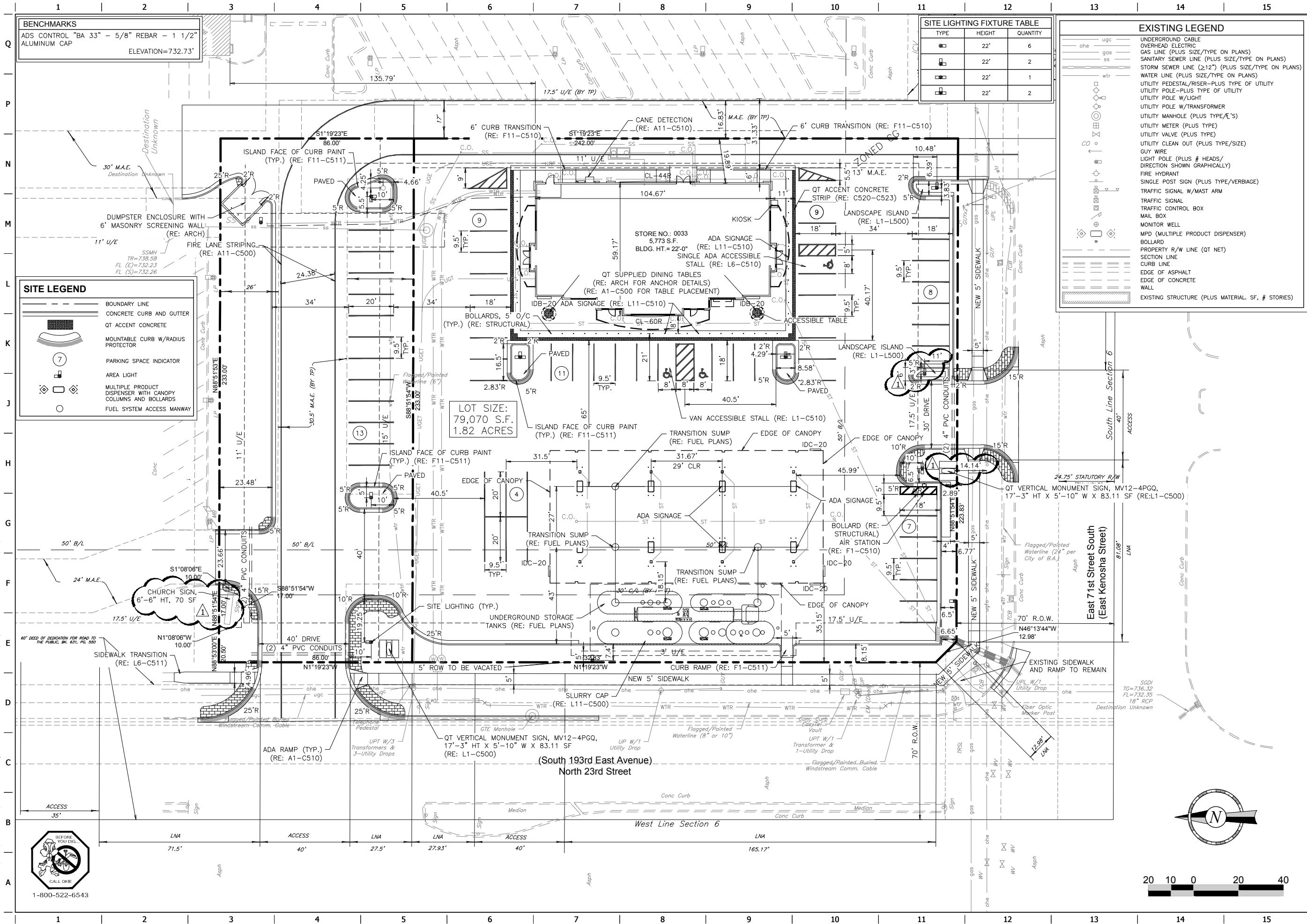
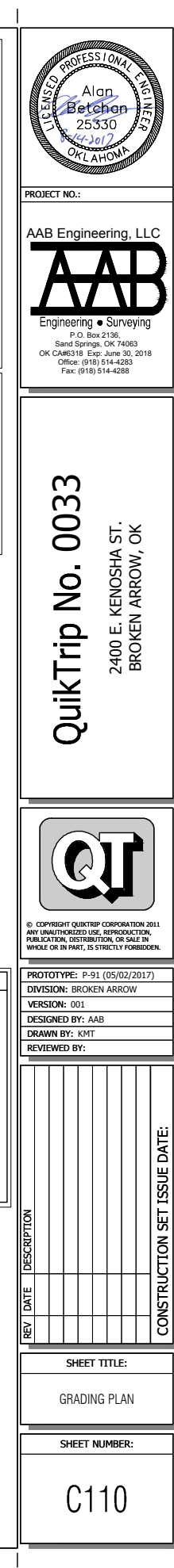
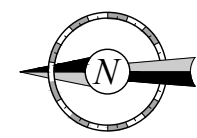
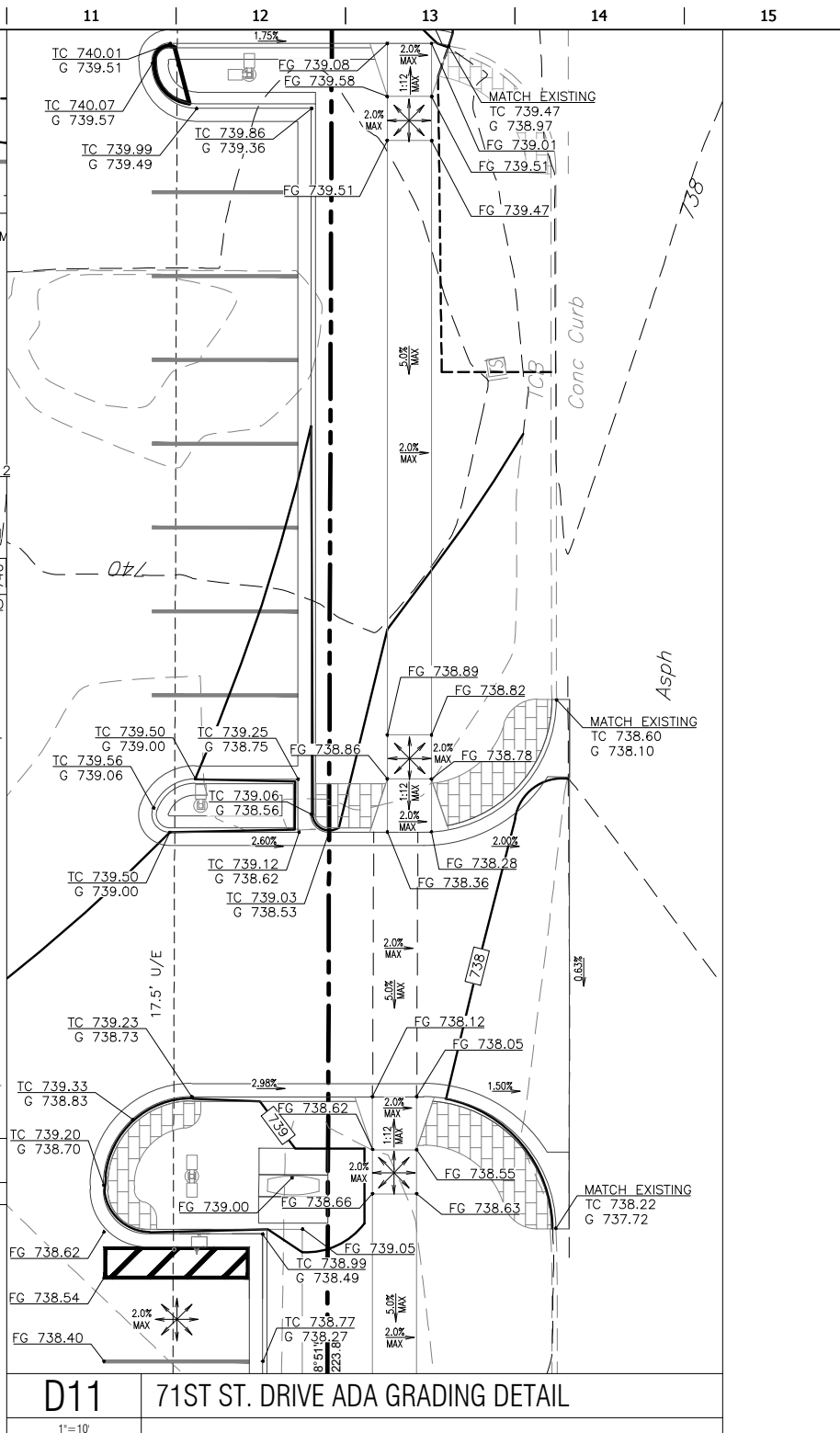
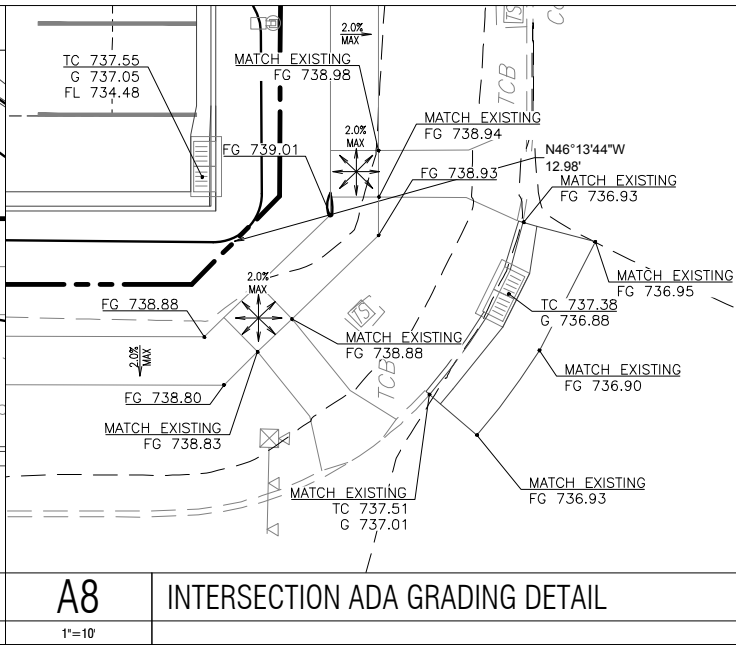
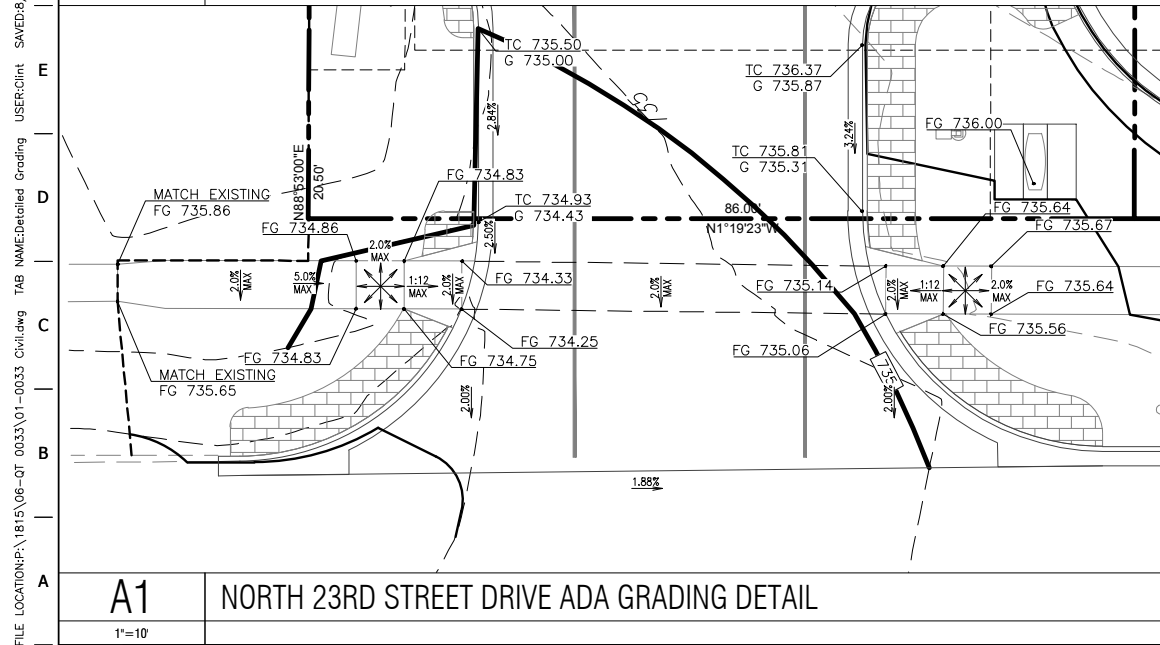
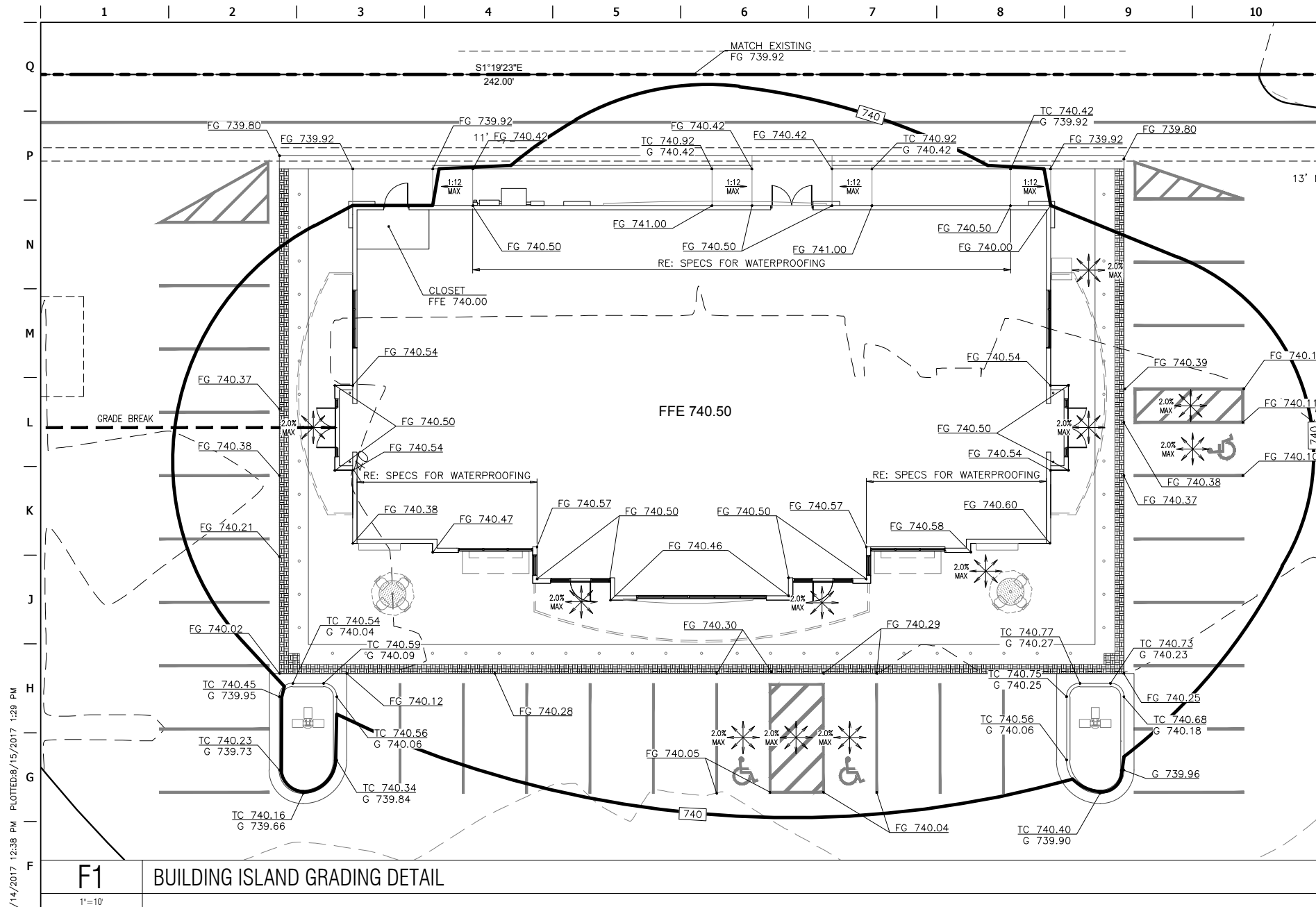
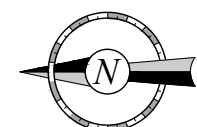


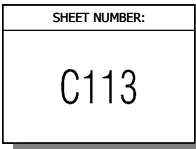
FILE LOCATION: P:\1815\06-QT 0033\01-0033 Civil.dwg USER: chrt TAB NAME: Site SAVED: 8/14/2017 12:38 PM PLOTTED: 8/15/2017 1:29 PM



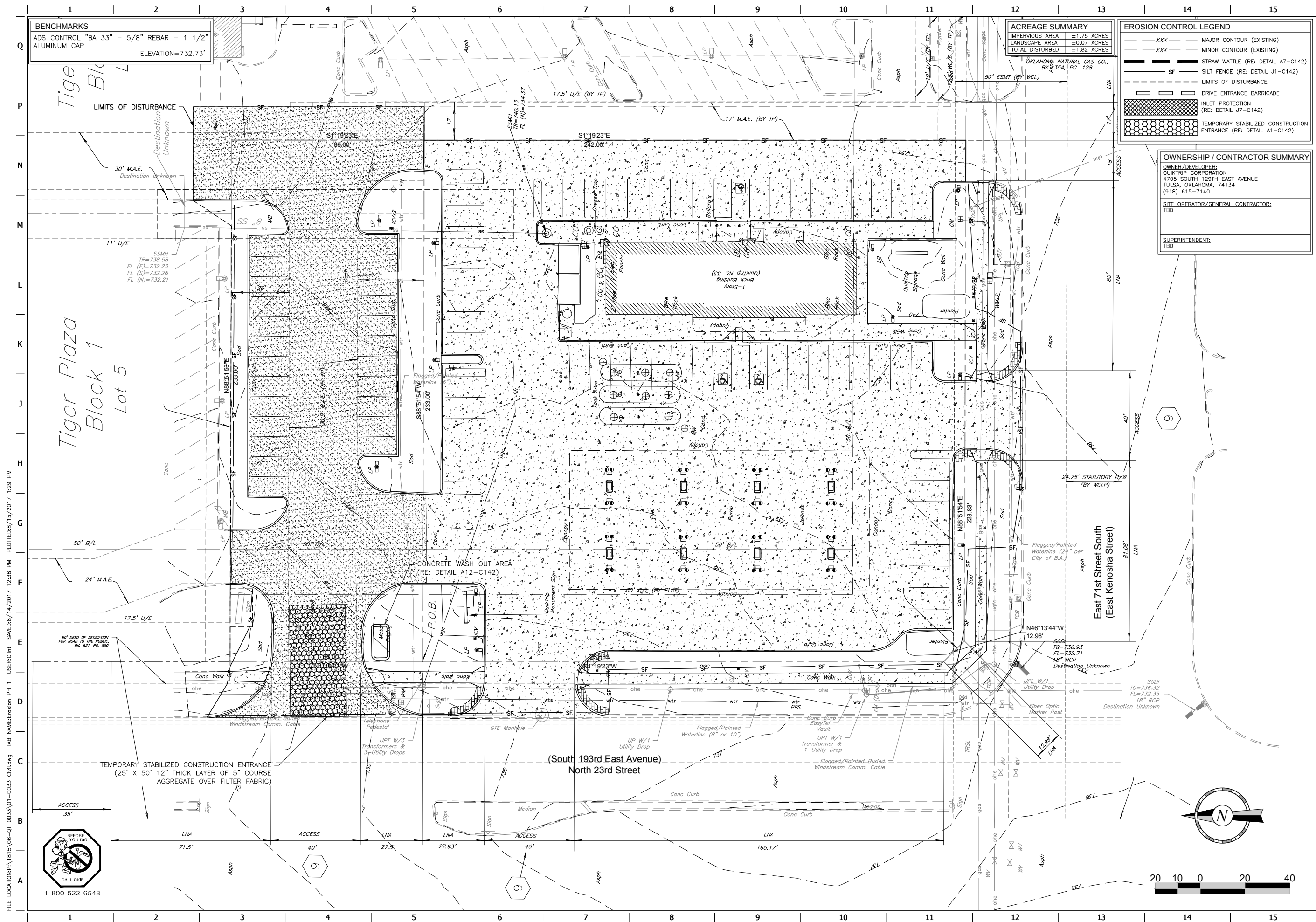


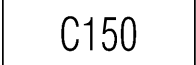




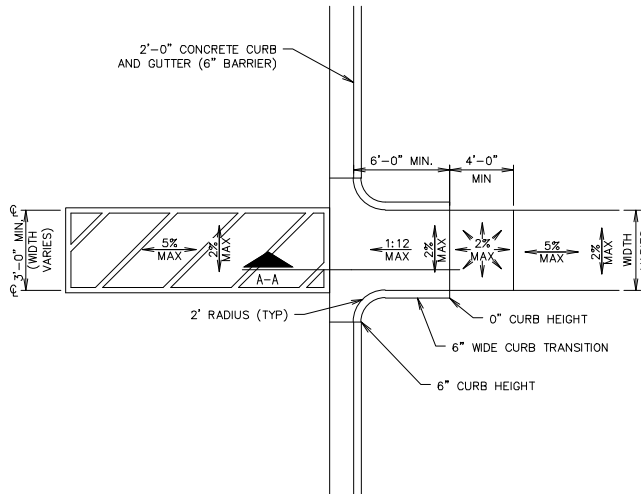


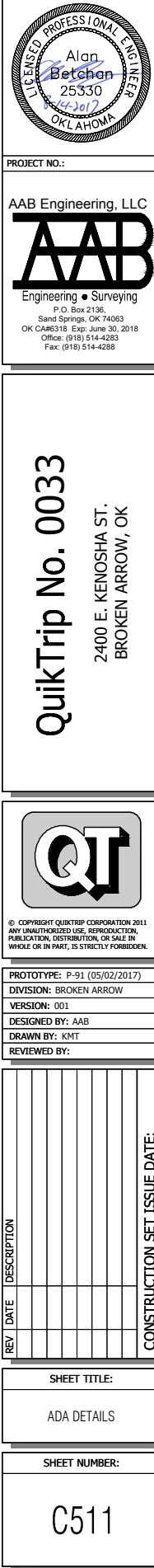
DRAINAGE SUMMARY CHART																								
DRAINAGE AREA BASIN	DRAINAGE AREA LABEL	DRAINAGE AREA (ACRES)	"C" (WEIGHTED)	OVERLAND REACH (FEET)	OVERLAND SLOPE (%)	OVERLAND VELOCITY (FPS)	WATERWAY REACH (FEET)	WATERWAY SLOPE (%)	WATERWAY VELOCITY (FPS)	PAVEMENT REACH (FEET)	PAVEMENT SLOPE (%)	PAVEMENT VELOCITY (FPS)	TOTAL T _C (MINUTES)	100 (IN./HR.)	Q ₁₀₀ (CFS)	DESIGN "Q" (SUM AT INLET)	% SLOPE AT INLET	CLOSING FACTOR	DEPTH Ø (INLET (FT))	INLET INTERCEPT (CFS)	INLET CAPACITY (CFS)	INLET BYPASS (CFS)	BYPASS TO INLET #	INLET DESIGN
A	a	0.39	0.86	-	-	-	-	-	-	302	1.32	2.34	2.16	11.59	3.9									



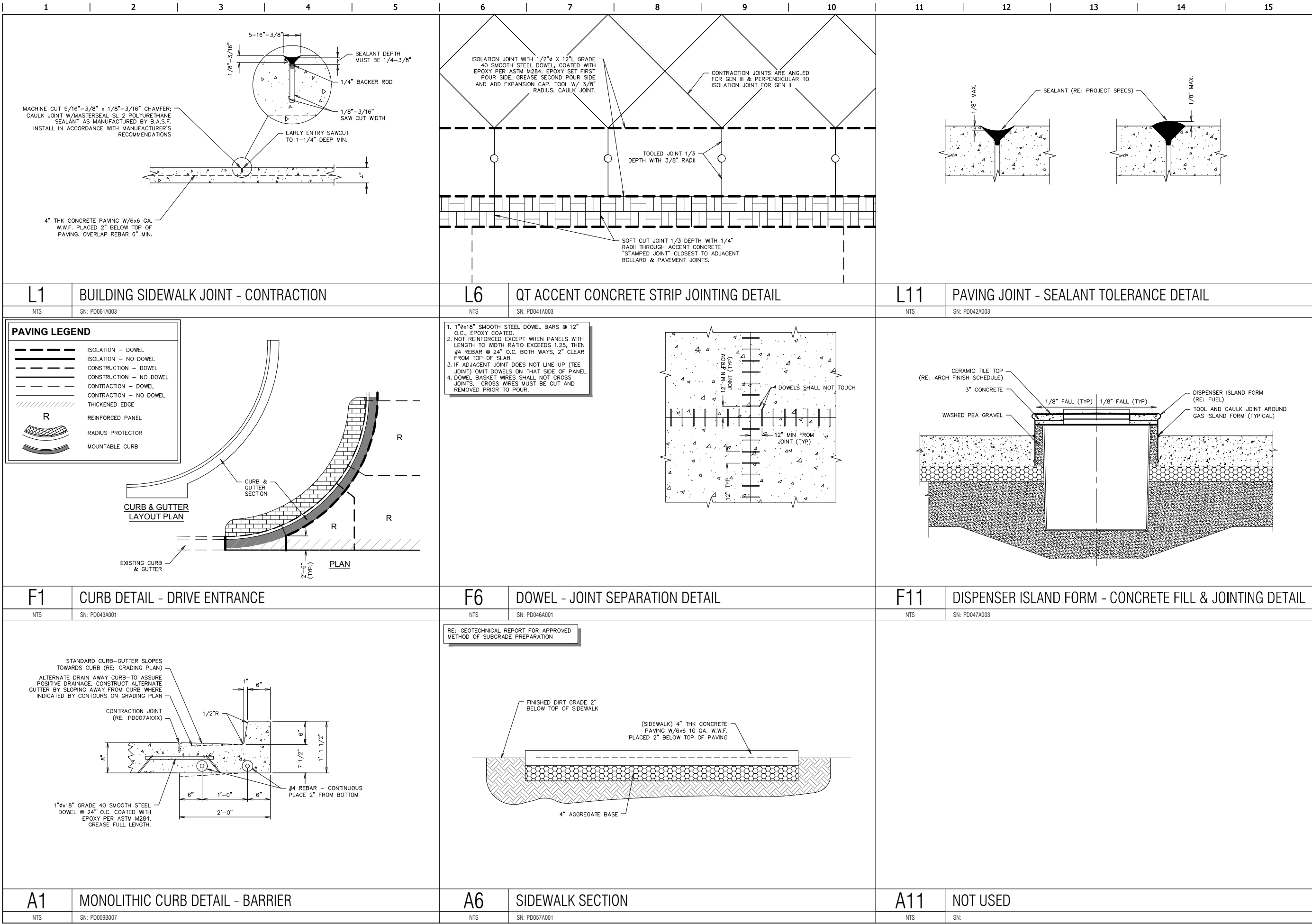


FILE LOCATION: P:\1815\06-QT 0033\01-0033 Civil.dwg TAB NAME: Utility USER: Clint SAVED: 8/14/2017 12:38 PM PLOTTED: 8/15/2017 1:29 PM

L1			NOT USED			L6			NOT USED			L11			NOT USED		
NTS			SN:			NTS			SN:			NTS			SN:		
																	



FILE LOCATION: P:\1815\06-QT 0033\DETAILS PAVING.DWG TAB NAME: Paving Detail Sheet 4 USER: Tech12 SAVED: 8/8/2017 3:43 PM PLOTTED: 8/15/2017 1:30 PM



PROJECT NO.:

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PROTOTYPE: P-91 (05/02/2017)	
DIVISION: BROKEN ARROW	
VERSION: 001	
DESIGNED BY: AAB	
DRAWN BY: KMT	
REVIEWED BY:	

REV	DATE	DESCRIPTION

SHEET TITLE:
PAVING DETAILS

SHEET NUMBER:
C523

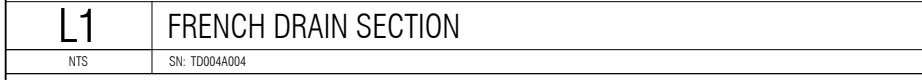


Diagram illustrating the cross-section of a trench with the following dimensions and materials:

- FINISH GRADE**: Indicated at the top surface of the trench.
- 2'-0" MIN.**: Minimum vertical dimension for the trench depth.
- 4" MIN.**: Minimum vertical dimension for the trench bottom layer.
- BACKFILL WITH TRENCH MATERIAL COMPACT TO 90% SPD**: Material filling the trench.
- 4" TO 6" LATERAL SANITARY SEWER LINE OR 4" TO 12" BLDG OR CANOPY STORM SEWER LINE**: Pipe size specifications.
- 4" MIN.**: Minimum horizontal dimension for the trench width.
- 1'-4" MIN.**: Minimum horizontal dimension for the trench width.

F1	BUILDING OR CANOPY DRAINAGE TRENCH SECTION (NON PAVED)
----	--

1'-4" MIN.

FINISH GRADE

4'-0" MIN.

BACKFILL WITH TRENCH MATERIAL IN 12" LIFTS WITH VIBRATING TAMPER COMPACT TO 90% SPD

(3) 4" DIAMETER CONDUITS

A1	PRIMARY ELECTRICAL & TELEPHONE CONDUIT TRENCH SECTION (NON PAVED)
----	---

6

7

8

9

10

ALL COPPER PIPING SHALL BE TYPE K WRAPPED IN 3M VINYL TAPE FROM THE BUILDING TO THE METER.

ALWAYS ATTEMPT TO RUN UTILITY TRENCH OUTSIDE OF PAVED AREA WHEN AVAILABLE - RE: PLAN SHEETS.

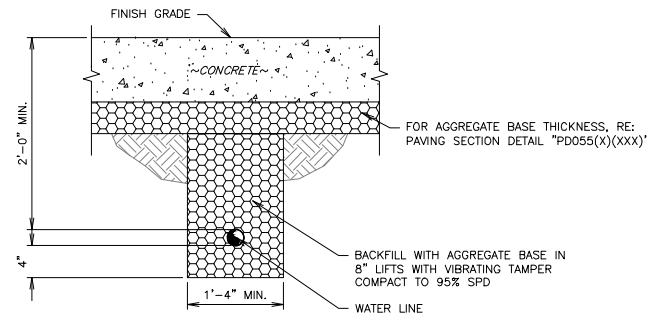
RE: PROJECT SPECS FOR GRADATION TABLE.

FINISH GRADE

CONCRETE

2'-0" MIN.

FOR AGGREGATE BASE THICKNESS, RE: PAVING SECTION DETAIL "PD055(X)(XXX)"



L6	ON-SITE WATER LINE TRENCH SECTION (PAVED)
----	---

Diagram illustrating the cross-section of a trench. The trench is filled with backfill material, compacted to 90% SPD. The trench width is specified as 1'-4" MIN. The depth of the trench is specified as 2'-0" MIN. The trench is lined with a material labeled "FINISH GRADE". The trench is also labeled "BACKFILL WITH TRENCH MATERIAL COMPACT TO 90% SPD". The trench is shown with a "WATER LINE" at the bottom.

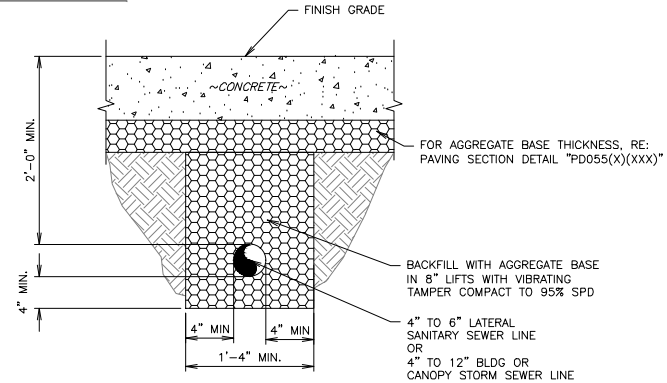
F6	ON-SITE WATER LINE TRENCH SECTION (NON PAVED)
----	---

Diagram illustrating the cross-section of a concrete curb and backfill assembly. The diagram shows a concrete curb on the left, with a backfill area to its right. The backfill is composed of aggregate base in 8" lifts, compacted to 95% SPD, and contains conduit(s). The concrete curb is labeled "CONCRETE" and "FINISH GRADE". Dimensions are indicated: 2'-0" MIN. for the total height, 1'-0" MIN. for the curb height, 4" for the curb thickness, and 1'-4" MIN. for the backfill width.

Labels and Dimensions:

- FINISH GRADE
- CONCRETE
- 2'-0" MIN.
- 1'-0" MIN.
- 4"
- 1'-4" MIN.
- FOR AGGREGATE BASE THICKNESS, RE: PAVING SECTION DETAIL "PD055(X)(XXX)"
- BACKFILL WITH AGGREGATE BASE IN 8" LIFTS WITH VIB

A6	1" Ø OR SMALLER ELECTRICAL CONDUIT TRENCH SECTION (PAVED)
-----------	---



L11	BUILDING OR CANOPY DRAINAGE TRENCH SECTION (PAVED)
-----	--

F11	PRIMARY ELECTRICAL & TELEPHONE CONDUIT TRENCH SECTION (PAVED)
-----	---

A cross-sectional diagram of a trench. The top surface is labeled "FINISH GRADE". The trench is filled with "BACKFILL WITH TRENCH MATERIAL COMPACT TO 90% SPD". At the bottom of the trench are "CONDUIT(S)". A vertical section of the backfill is labeled "VARIES". A dimension line on the left indicates a depth of "2'-0\" MIN.".

A11	1" Ø OR SMALLER ELECTRICAL CONDUIT TRENCH SECTION (UNPAVED)
-----	---



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VISION: BROKEN ARROW
VERSION: 001
DESIGNED BY: AAB
DRAWN BY: KMT
REVIEWED BY:

[illegible]

SHEET TITLE:

TRENCHING DETAILS

SHEET NUMBER:

C530

FILE LOCATION:P:\1815\06-QT 0033\DETAILS TRENCHING.dwg TAB NAME:Trenching Details Sheet 2 USER:Tech12 SAVED:8/9/2017 3:43 PM PLOTTED:8/15/2017 1:30 PM

12345					678910					1112131415				
EXISTING CHANNEL EXCAVATION NOTES: 1. MUCK TO SUITABLE SOIL OR BEDROCK (SEE QT REP). 2. #57 STONE WITH FILTER FABRIC AT BOTTOM OF FINISHED CHANNEL - TO BE PLACED IF BEDROCK IS ENCOUNTERED.					EXTEND THIS SECTION 5' BEYOND BACK OF CURB (OUTSIDE EDGE OF DRIVE) RE. PROJECT SPECS FOR GRADATION TABLE.					TRENCH MATERIAL SHALL CONSIST OF DRY, ROCK-FREE DIRT.				
L1EXCAVATION BENCHING DETAIL					L6TYPICAL IRRIGATION PIPING TRENCH SECTION (PAVED)					L11TYPICAL IRRIGATION PIPING TRENCH SECTION (NON PAVED)				
NTSSN: TD014A002					NTSSN: TD015A004					NTSSN: TD016A002				
F1NOT USED					F6NOT USED					F11NOT USED				
NTSSN:					NTSSN:					NTSSN:				
A1NOT USED					A6NOT USED					A11NOT USED				
NTSSN:					NTSSN:					NTSSN:				
12345					678910					1112131415				

ALAN BETCHAN
25330
8-4-2017
OKLAHOMA

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DIVISION: BROKEN ARROW
VERSION: 001
DESIGNED BY: AAB
DRAWN BY: KMT
REVIEWED BY:

REV

DATE

DESCRIPTION

CONSTRUCTION SET ISSUE DATE:

SHEET TITLE:
TRENCHING DETAILS

SHEET NUMBER:
C531

