•	BENCH MARK	LP 🌣	LIGHT POLE
0	BOREHOLE		ELECTRIC
FH O	EXISTING FIRE HYDRANT	PP-O-	POWER POLE
— <i>w</i> —	EXISTING WATERLINE	<b>®</b>	TREE
MM THE	EXISTING WATER METER	*	TREE
W e	EXISTING WATER VALVE	Ö	BUSH
x	FENCE LINE	rs o	TRAFFIC SIGN
GM 🖸	GAS METER	MB 🗆	MAIL BOX
GV M	GAS VALVE	TMH (1)	TELEPHONE M.H.
GP O	GATE POST	-OHT-	OVERHEAD TELEPHONE
	EXISTING GAS LINE	-	UTILITY EASEMENT
SGCI	SINGLE GRATE CURB INLET		SUBDIVISION R.O.W. LINE
DGCI	DOUBLE GRATE CURB INLET		SUBDIVISION EASEMENT LINE
SSMHO	SANITARY SEWER M.H.		SUBDIVISION LOT LINE
SMH (	STORM SEWER M.H.		BUILDING LINE
TPED T	TELEPHONE PEDESTAL		PROPOSED WATER LINE
— <i>ss</i> —	- SANITARY SEWER		PROPOSED R.O.W. LINE
	TELEPHONE UNDERGROUND ELECTRIC UNDERGROUND		LIMITS OF CONSTRUCTION



# THE CITY OF TULSA, OKLAHOMA

CONSTRUCTION PLANS FOR

DRAINAGE IMPROVEMENTS

# BIRD CREEK

PROJECT No. TMUA-W 22-89, 153120-C2-TO5A ACCOUNT Nos.: 6041-5455503-040522173120

	76th St. No.	lve.
9	66th St. No.	. Ave.
	56th St.\ No.	(A)
2/////	Millini V	Port Rd. (SH-266)
	-	
	36th \$t. No.	
		CATOOSA STATE
	Apache C A	Tiger Switch Rd.
	TULSA	
	1 244	
_	I-244	

CURRENT CITY OF TULSA STANDARD SPECIFICATIONS AND STANDARD DETAILS GOVERN. ALL OTHER CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE 2019 OKLAHOMA STANDARD SPECIFICATIONS FOR

UTILITY CONTACTS

BRANDON WADE

ADAM FIELDS

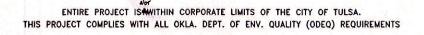
JONATHON MEADOWS 918-831-821

918-596-4237

918-286-4716

918-250-6257

918-596-9649



### INDEX OF SHEETS

COVER SHEET
TYPICAL SECTIONS
PAY QUANTITIES & NOTES
ACCESS MAP
ALIGNMENT DATA
PLAN AND PROFILE
STORM WATER MANAGEMENT PLAN
CROSS SECTION

### SURVEY DATA

HORIZONTAL DATUM: OKLAHOMA NORTH (ZONE 3501) STATE PLANE COORDINATE SYSTEM, **VERTICAL DATUM:** SCALE FACTOR:

THE FOLLOWING CITY OF TULSA STANDARD DRAWINGS WILL BE USED FOR THIS PROJECT:

304 - BEDDING DETAIL - RIGID PIPE

APPROVED BY:

CLAYTON EDWARDS, P.E.
DIRECTOR, WATER AND SEWER DEPT.

6.23.22 DATE

7/6/22

APPROVED BY:

PAUL ZACHARY, P.E.

CITY ENGINEER

ADVERTISEMENT DATE: 07.08.22

SUBMITTED BY

# **EGUY ENGINEERING**

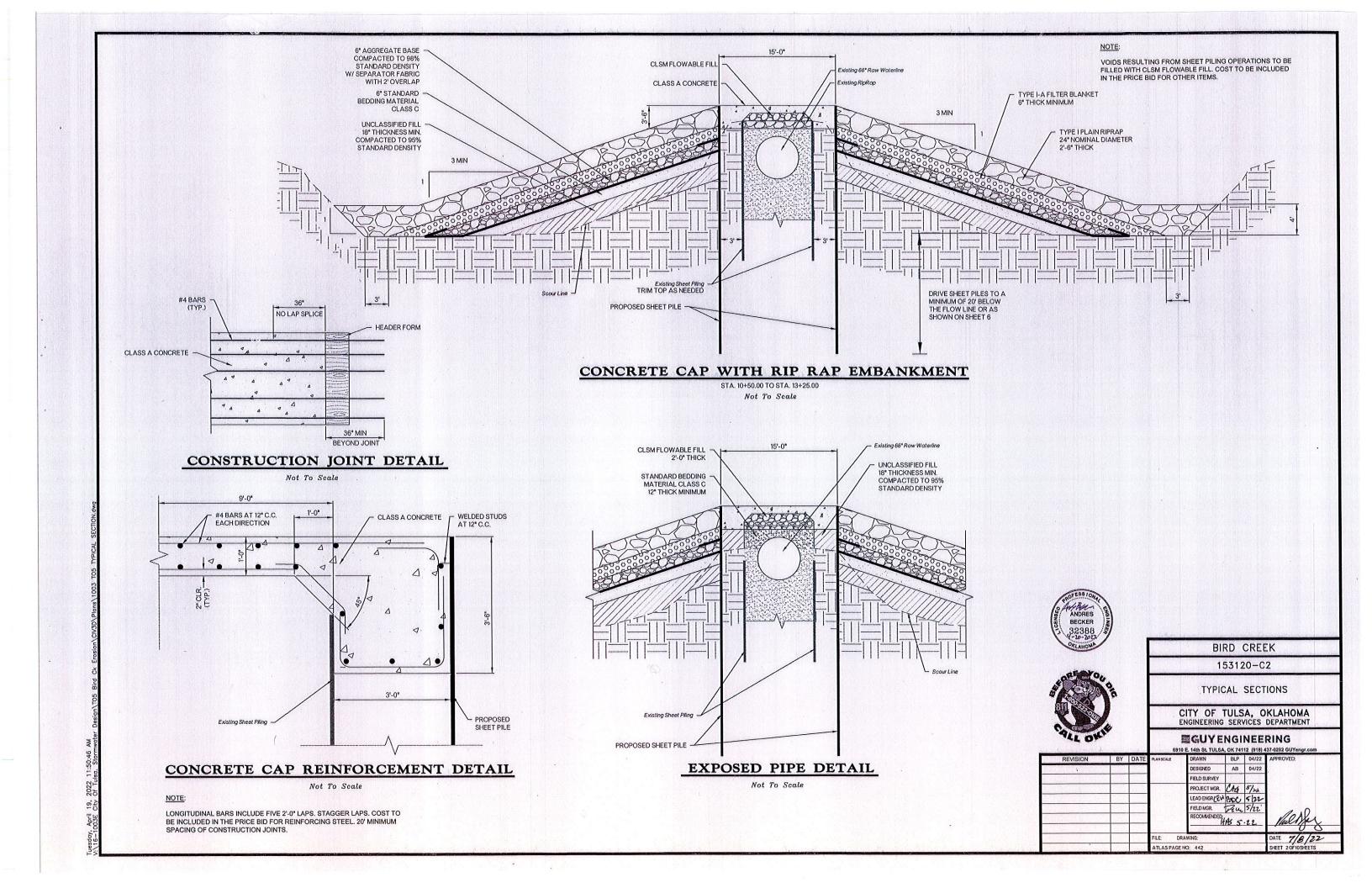
Certificate of Authorization No. 1427 Renewal Date: Jupe 30, 2022

COX COMMUNICATIONS

AEP/PSO

OKLAHOMA NATURAL GAS CO.

CITY OF TULSA UTILITY COORDINATOR CHRIS KOVAC



#### **GENERAL CONSTRUCTION NOTES**

- 1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE 20#9 OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND THE CURRENT CITY OF TULSA ENGINEERING SERVICES DEPARTMENT'S STANDARD SPECIFICATIONS AND STANDARD DETAILS AND STANDARD DRAWINGS AND CITY OF TULSA SPECIAL PROVISIONS.
- 2. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS GOVERNING SAFETY, HEALTH AND SANITATION. THE CONTRACTOR SHALL PROVIDE ALL SAFEGUARDS, SAFETY DEVICES AND PROTECTIVE EQUIPMENT, AND TAKE ANY OTHER REEDED ACTION ON AS HIS OWN RESPONSIBILITY OR AS THE ENGINEER MAY DETERMINE REASONABLY NECESSARY TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACT.
- 3. PAY ITEMS SHALL BE AS SPECIFIED ON THE CITY OF TULSA OR ON THE ODOT STANDARD DRAWINGS EXCEPT AS MODIFIED BY THE CONTRACT
- 4. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK
  IN EACH AREA. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT RESULT FROM
  HIS FAILURE TO LOCATE AND PRESERVE ANY AND ALL UTILITIES.
- 5. THE LOCATIONS OF THE UTILITIES ARE SHOWN ACCORDING TO ALL AVAILABLE INFORMATION. THE CONTRACTOR SHALL NOTIFY EACH UTILITY OWNER PRIOR TO COMMENCEMENT OF WORK TO VERIFY BOTH HORIZONTAL AND VERTICAL LOCATIONS. THE FOLLOWING IS A LIST OF UTILITY OWNERS
- 6. THE CONTRACTOR SHALL GIVE THE NOTIFICATION CENTER OF OKLAHOMA ONE-CALL SYSTEM, INC. NOTICE OF ANY EXCAVATION NO SOONER THAN TEN DAYS NOR LATER THAN 48 HOURS, EXCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS, PRIOR TO THE COMMENCEMENT OF WORK, PHONE 1-800-522-6543.
- 7. THE CONTRACTOR SHALL PRESERVE THE INTEGRITY OF THE SANITARY SEWER STRUCTURES AND ALL OTHER UTILITY STRUCTURES WITHIN THE PROJECT EXTENTS
- 8. THE CONTRACTOR SHALL NOTIFY THE CITY OF TULSA FIELD ENGINEERING, 918-596-9404, A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK OR PRIOR TO REMOVING TRAFFIC SIGNS.
- 9. ALL BROKEN CONCRETE, WASTE MATERIAL, AND OTHER DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE LIMITS OF THE PROJECT AND DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER. NO ADDITIONAL PAYMENT WILL BE MADE FOR THE DISPOSAL OF THIS MATERIAL.
- 10. ALL EXCAVATED MATERIAL NOT REQUIRED IN THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN A MANNER ACCEPTABLE TO THE ENGINEER WITHOUT COST TO THE CITY. THE CONTRACTOR WILL BE REQUIRED TO OBTAIN AN EARTH CHANGE PERMIT IF ANY MATERIAL IS STORED ON THE PROJECT SITE AND/OR DISPOSED OF WITHIN THE CITY LIMITS.
- 11. ALL TREES, BRUSH AND OTHER DEBRIS THAT MIGHT INTERFERE WITH THE FLOW OF WATER IS TO BE CLEANED OUT TO THE RIGHT-OF-WAY LINE IN A MANNER APPROVED BY THE ENGINEER. ALL COST TO BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF WORK. TREES OUTSIDE THE FILL SLOPES AND THE TOP OF CUT SLOPES SHALL NOT BE DISTURBED EXCEPT WITH THE WRITTEN APPROVAL OF THE ENGINEER.
- 12. WHERE MATERIALS ARE TRANSPORTED IN THE PROSECUTION OF WORK, VEHICLES SHALL NOT BE LOADED BEYOND THE CAPACITY RECOMMENDED BY THE VEHICLE MANUFACTURER OR AS PRESCRIBED BY ANY FEDERAL, STATE OR LOCAL LAW OR REGULATION.
- 13. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY QUALITY CONTROL TESTING TO ENSURE THAT PROJECT REQUIREMENTS ARE MET.
- 14. STRAW OR HAY BALES AS STORMWATER BEST MANAGEMENT PRACTICES ARE NO LONGER ALLOWED ON CONSTRUCTION PROJECTS.
- THE CONTRACTOR MUST CALL 1-800-458-4251 IMMEDIATELY IF A NATURAL GAS PIPELINE IS CUT, DAMAGED, OR OTHERWISE DISTURBED.
- . THE CONTRACTOR SHALL REMOVE ALL EQUIPMENT AND UNINSTALLED MATERIALS FROM THE FLOODPLAIN AT THE END OF EACH WORK DAY.
- 7. THE CONTRACTOR SHALL REPLACE ANY SECTION CORNERS OR OTHER PERMANENT RIGHT OF WAY MARKERS REMOVED OR DISTURBED AS A RESULT OF THE CONSTRUCTION OF THIS PROJECT. REPLACEMENT OF SECTION CORNERS OR ANY OTHER MONUMENTS SHALL BE PERFORMED BY A LICENSED SURVEYOR AUTHORIZED TO PERFORM WORK IN THE STATE OF OKLAHOMA.
- 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL AND MAINTENANCE OF THE STORM WATER DRAINAGE. STORM WATER PONDING ON THE CONSTRUCTION SITE THAT IS THE RESULT OF CONSTRUCTION WILL NOT BE ALLOWED.
- 19. THE CONTRACTOR SHALL RESTORE ALL DISTURBED GRASS AREAS TO A CONDITION EQUAL TO OR BETTER THAN THE
  EXISTING CONDITION. THE CONTRACTOR SHALL REPLACE THE SOD TO MATCH IN-KIND AND QUALITY. ANY
  DISTURBANCE OUTSIDE THE PROPOSED CONSTRUCTION EASEMENTS SHALL BE RESTORED AT THE CONTRACTORS
  105.

### PAY ITEM NOTES

#### EARTHWORK / EROSION CONTROL / SITE PREPARATION (E1 - E11)

- E-1: ALL COSTS FOR REMOVING TREES, SHRUBS, STUMPS, POSTS, AND ALL OTHER DEBRIS AND/OR OBSTRUCTIONS NOT COVERED BY A SEPARATE PAY ITEM ARE INCLUDED IN THE PRICE BID.
- E-2 E-5: NOT USED.
- G: THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROL AND MAINTENANCE OF THE STORM WATER DRAINAGE FROM THE CONSTRUCTION SITE. STORM WATER PONDING ON THE CONSTRUCTION SITE THAT IS THE RESULT OF CONSTRUCTION WILL NOT BE ALLOWED. ALL COST ASSOCIATED WITH STORM WATER MANAGEMENT, AS WELL AS REMOVAL OF ALL SILT AND DEBRIS FROM ALL DRAINAGE STRUCTURES, STORM SEWER PIPES AND APPURTENANCES WITHIN THE PROJECT LIMITS AT END OF PROJECT, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THIS ITEM.
- -7: EROSION PROTECTION SHALL BE PLACED AS FOLLOWS:
  - A) AROUND INLETS TO PREVENT INFLOW OF ERODED MATERIAL INTO STORM SEWER SYSTEM;
    B) IN LOCATIONS THROUGHOUT PROJECT SITE, AS DETERMINED BY THE ENGINEER, TO PREVENT WASH
    OF ERODED MATERIAL ONTO ADJACENT PROPERTY:
  - C) FOR ENTIRE DURATION OF PROJECT, WITH MAINTENANCE AND REPLACEMENTS, AS DIRECTED BY THE ENGINEER:
  - D) WITH PERIODIC REMOVAL OF SEDIMENT IN ACCORDANCE WITH STORMWATER MANAGEMENT PLAN. ALL COST FOR ITEMS A-D ABOVE SHALL BE INCLUDED IN UNIT PRICE BID FOR THIS ITEM.

E-8 - E-11: NOT USED.

#### SURFACING / STRUCTURES (S1 - S21)

- S-1: NOT USED.
- S-2: INCLUDES COMPACTION OF AGGREGATE TO 98% AASHTO T180 MODIFIED PROCTOR
- S-3 S-11: NOT USED.
- S-12: THE USE OF FLY-ASH IN CONCRETE IS PROHIBITED.
- S-13 S-21: NOT USED.

#### REMOVAL / ADJUSTMENT (R1 - R6)

- R-1: WASTE MATERIAL TO BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE IN A MANNER APPROVED BY THE ENGINEER.
- IN A MANNER APPROVED BY THE ENGINE
- R-2 R-6: NOT USED.

#### GENERAL (G1 - G10)

G-1 - G-10: NOT USED.

#### DRAINAGE (D1 - D15)

- D-1 D-7: NOT USED
  - QUICKSET FLOWABLE FILL SHALL BE USED TO BACKFILL AROUND EXISTING RIPRAP, AS NEEDED, AT THE DIRECTION OF THE ENGINEER.
- D-9 D-15: NOT USED

#### TRAFFIC (T1 - T7)

103.

- T-1 T-7: NOT USED.
- 00. CONTRACTOR SHALL PROVIDE A CONSTRUCTION SEQUENCING PLAN FOR REVIEW TO THE CITY PRIOR TO COMMENCING CONSTRUCTION.
- 101. TOP OF SHEET PILE SHALL BE CUT TO MATCH THE TOP ELEVATION OF THE CONCRETE CAP.
- 102. EQUIPMENT AND FILL MATERIALS SHALL NOT BE STAGED ON TOP OF THE EXISTING 66" RAW WATER LINE.
  - THE COST OF MATERIALS AND INSTALLATION OF WELDED STUDS SHALL BE INCLUDED IN THE PRICE BID OF SHEET PILES.
- ESTIMATED AT 140 LBS. PER CU. FT.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING COFFERDAMS,
    THE CONTRACTOR SHALL BE RESPONSIBLE OF RE-ESTABLISHING COFFERDAMS DUE TO WASHOUTS, NO
    ADDITIONAL PAYMENT SHALL BE MADE.

#### PAY QUANTITIES

ITEM NO.	SPEC NO.	DESCRIPTION	PAY NOTES	UNIT	QUANTITY
1	201(A)	CLEARING & GRUBBING	E-1	L, SUM	La car
2	202(A)	MUCK EXCAVATION	R-1	C.Y.	2,707
3	202(D)	UNCLASSIFIED BORROW		C.Y.	1,452
4	220	SWPPP DOCUMENTATION AND MANAGEMENT	E-6,100,102	EA	
5	221(C)	TEMPORARY SILT FENCE	E-7	L.F.	640
6	221(E)	TEMPORARY SILT DIKE	United States and	L.F.	640
7	230(C)	SOLID SLAB SODDING		S.Y.	1,447
8	303(A)	AGGREGATE BASE TYPE A	5-2	C.Y.	470
9	325	SEPARATOR FABRIC		S.Y.	1,400
10	501(G)	CLSM BACKFILL	D-8	C.Y.	200
11	509(B)	CLASS A CONCRETE	S-12	C.Y.	31
12	511(A)	REINFORCING STEEL		LB.	12,16
13	514(H)	SHEET PILING, FURNISHED	103	S.Y.	1,99
14	514(1)	SHEET PILING, DRIVEN	101	S.Y.	1,99
15	601(A)	TYPE I PLAIN RIPRAP	104	TON	6,360
16	601(C)	TYPE I-A FILTER BLANKET	104	TON	1,27
18	613(T)	STANDARD BEDDING MATERIAL, CLASS C		C.Y.	470
17	619(B)	REMOVAL OF EXISTING PIPE		L.F.	61
19	641	MOBILIZATION		EA	
20	642(B)	CONSTRUCTION STAKING LEVEL II		EA	
21		12 INCH DIP, CL50 POLYETHYLENE WRAPPED (RJ)		L.F.	70
22	COT 312	12 INCH DUCTILE IRON 90 DEGREE BEND (RJ)		EA	
23	SPECIAL	COFFERDAM CONSTRUCTION	100,102,105	EA	
24	SPECIAL	OWNER ALLOWANCE	Regulation Committee	ALLOW	
25	SPECIAL	DEWATERING		EA	

		EARTHV	WORK SI	JMMARY	1	
STATION EXTENTS			MUCK EXCAVATION 202(A)	EMBANKMENT +15%	UNCLASSIFIED BORROW 202(D)	WASTE
			C.Y.	C.Y.	C.Y.	C.Y.
10+50.00	то	11+50.00	988	583	583	988
11+50.00	TO	12+50.00	1,106	559	559	1,106
12+50.00	TO	13+25.00	613	310	310	613
		TOTALS =	2,707	1,452	1,452	2,707





BIRD CREEK

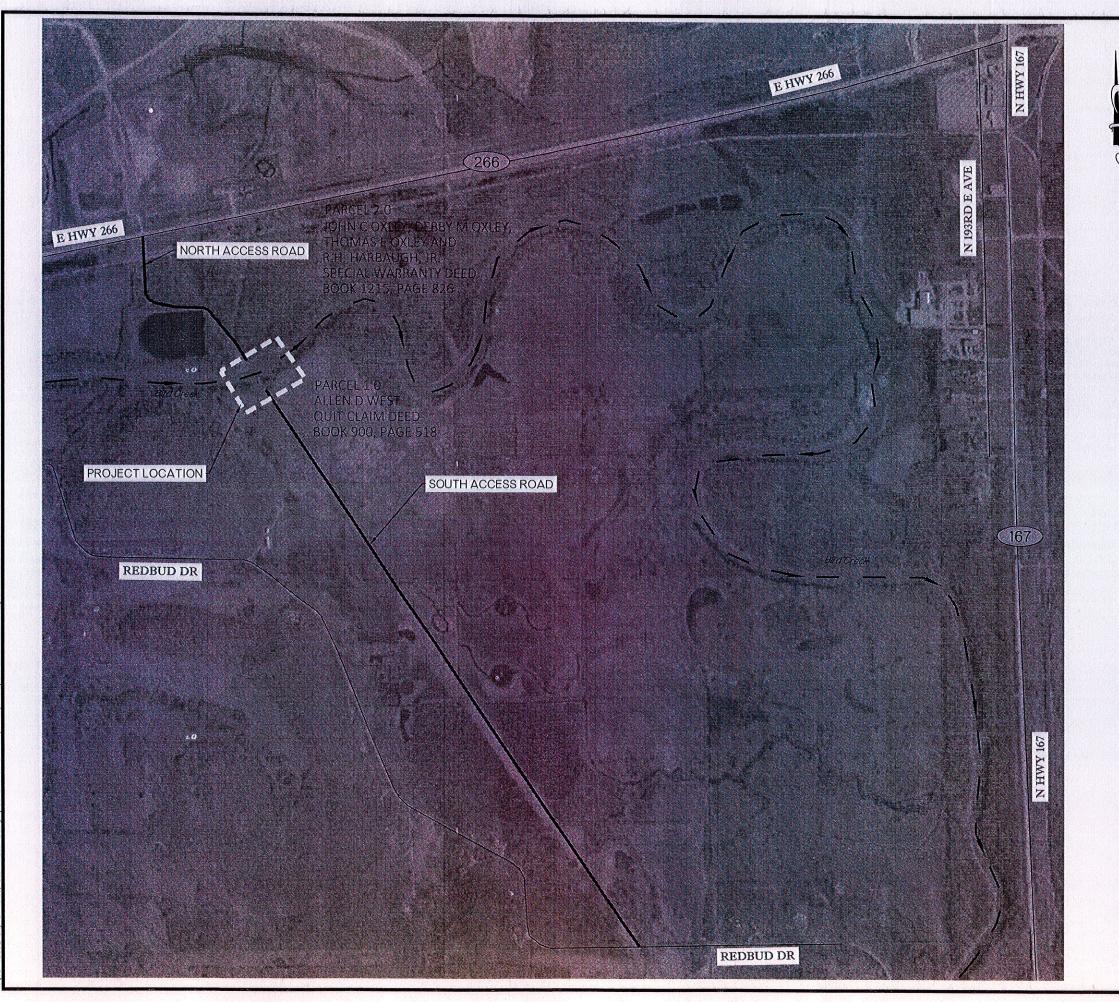
153120-C2
PAY QUANTITIES & NOTES

CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT

## GUYENGINEERING 6910 E. 14th St. TULSA, OK 74112 (918) 437-0282 GUYEngr.c

REVISION	BA	DATE	PLAN SCALE	DRAWN	BLP	04/22	APPROVED:
			N/A	DESIGNED	AB	04/22	
				FIELD SURVEY			
			PROFILE SCALE	PROJECT MGR.	LAG	5/22	
			HORIZONTAL	LEAD ENGRES	BOC	5/22	
			N/A	FIELD MGR.	Zem	5/22	1.00
			VERTICAL	RECOMMENDED:			heldes
	Medi		N/A	H	AS 5	-22	mory o
	1 2-53		FILE:	DRAWIN	G:		DATE 7/8/22
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: City Of Tulsa, Stormwater Designfi TO5 Bird Ck Erosionfi CIV3Dfi Plan







BIRD CREEK

153120-C2

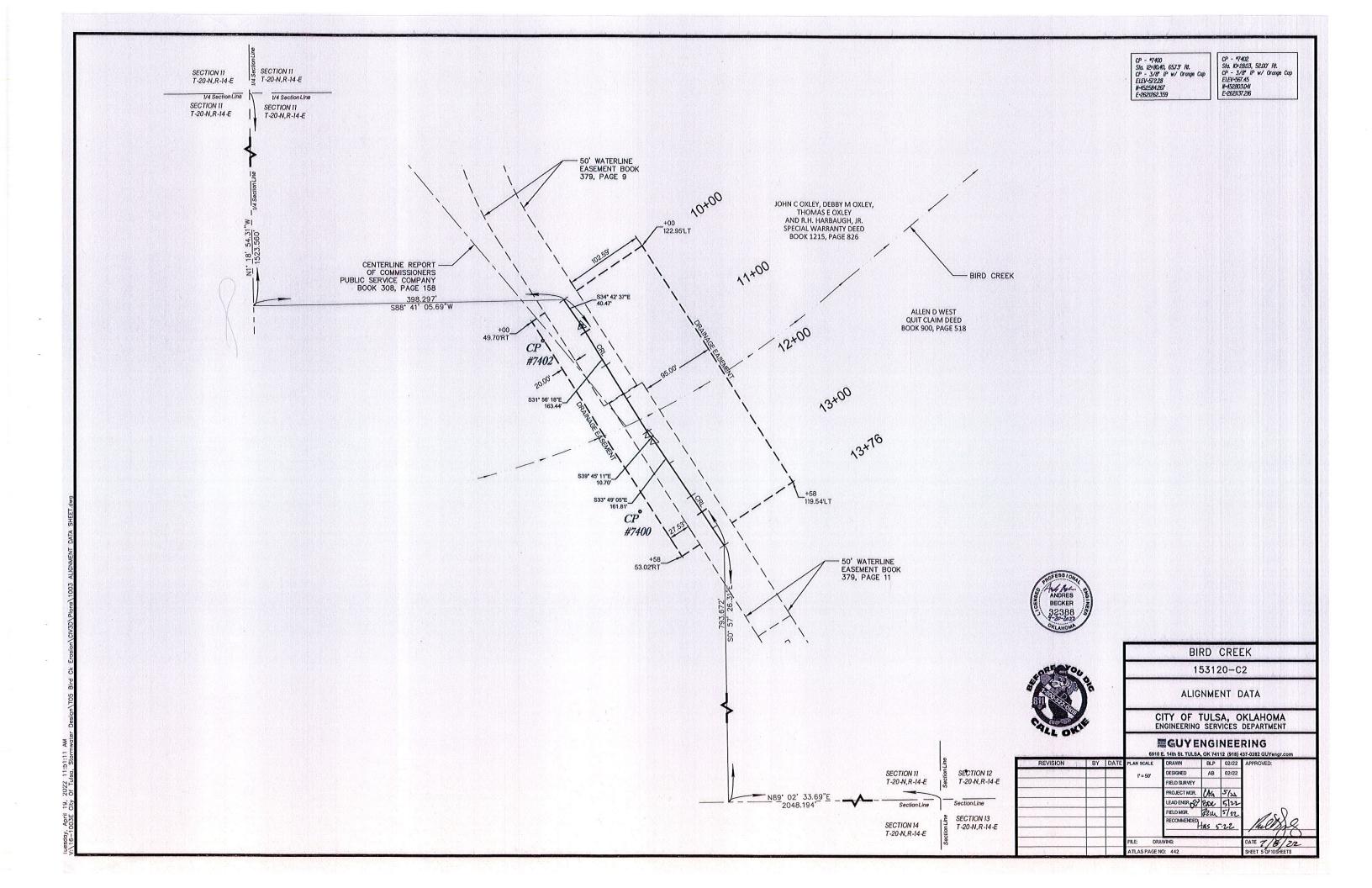
ACCESS MAP

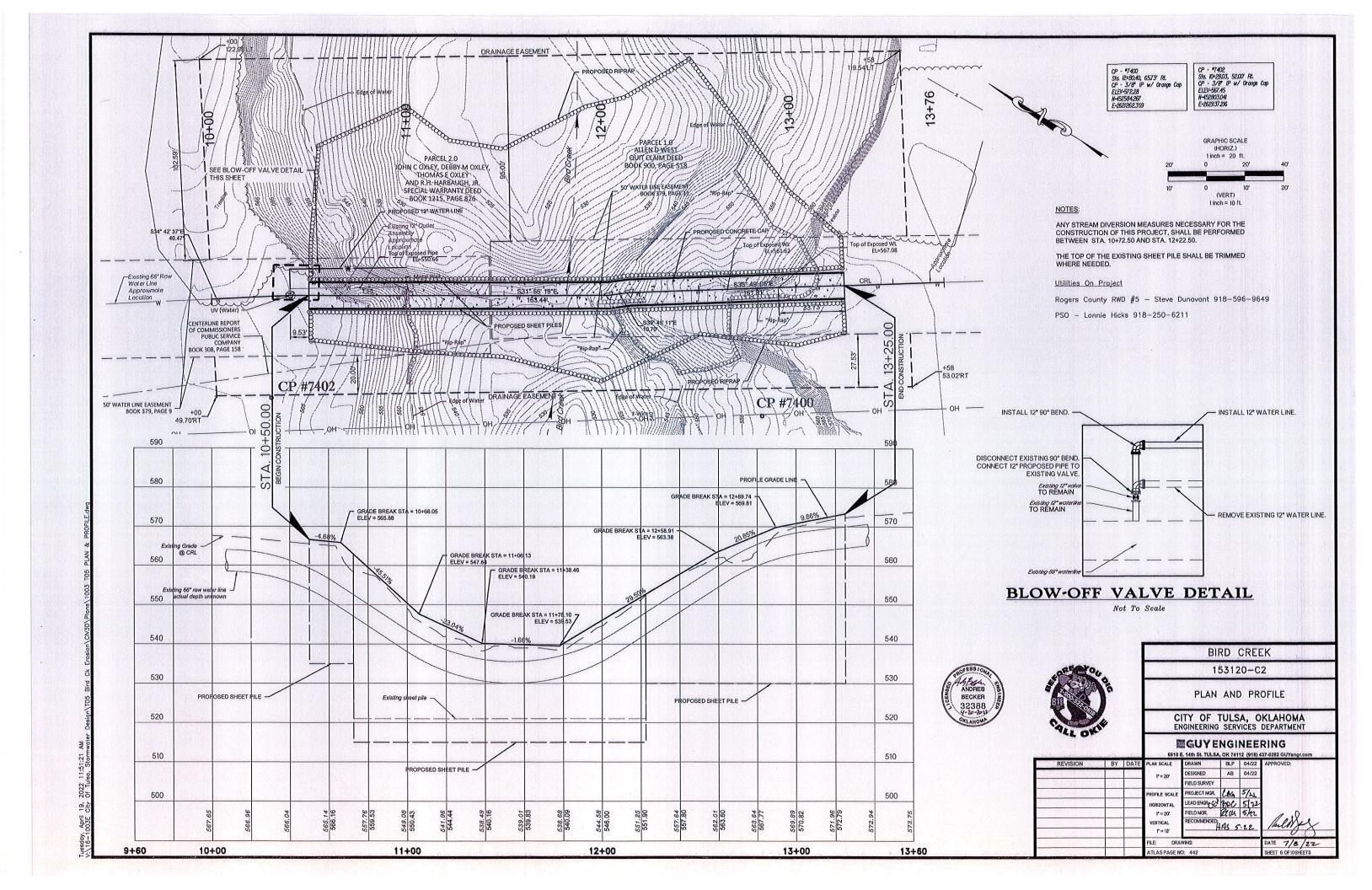
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT

### **GUY** ENGINEERING

100 May 12 18 18 18 18 18 18 18 18 18 18 18 18 18	6910	E. 14th St. TULSA	OK 741	12 (918)	137-0282 GUYengr.com		
REVISION	BY	DATE	PLAN SCALE	DRAWN	BLP	04/22	APPROVED:
			1' = 500'	DESIGNED	AB	04/22	
		Wase.		FIELD SURVEY			
			PROFILE SCALE	PROJECT MGR.	CAG	5/22	
			HORIZONTAL	LEAD ENGR.CEN			
		1100	N/A	FIELD MGR.	Feu	5/2	1.0
			VERTICAL N/A	RECOMMENDED:	AS 5	1	Tulon
			FILE: DRA	WING:		1970	DATE 7/8/22
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# STORM WATER MANAGEMENT PLAN

SITE DESCRIPTION	EROSIO.	N AND SEDIMENT CONTROLS
PROJECT LIMITS: A PIPE CROSSING ON BIRD CREEK LOCATED APPROXIMATELY 2.5 MILES WEST FROM THE PORT OF CATOOSA AND 0.3 MILES SOUTH OF SH-266.  PROJECT DESCRIPTION: EMBANKMENT PROTECTION FOR AN EXISTING 66 INCH RAW WATER LINE.  SUGGESTED SEQUENCE OF EROSION CONTROL ACTIVITIES:	SOIL STABILIZATION PRACTICES:  TEMPORARY SEEDING PERMANENT SODDING, SPRIGGING OR SEEDING VEGETATIVE MULCHING SOIL RETENTION BLANKET X PRESERVATION OF EXISTING VEGETATION	THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE FOLLOWING:  MAINTENANCE AND INSPECTION:  ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED IN GOOD WORKING ORDER IN THE BEGINNING OF CONSTRUCTION UNTIL AN ACCEPTABLE VEGETATIVE COVER IS ESTABLIS INSPECTION BY THE CONTRACTOR AND ANY NECESSARY REPAIRS SHALL BE PERFORMED OF CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 RECORDED BY A NON-FREEZING RAIN GAUGE TO BE LOCATED ON SITE, POTENTIALLY ER AREAS, DRAINAGEWAYS, MATERIAL STORAGE, STRUCTURAL DEVICES, CONSTRUCTION EXITS ALONG WITH EROSION AND SEDIMENT CONTROL LOCATIONS ARE EXAMPLES OF SITE
CLEAR AND GRUB ONLY IN NECESSARY AREAS, PRESERVING AS MUCH NATIVE VEGETATION AS  POSSIBLE. INSTALL, MAINTAIN AND/OR MOVE TEMPORARY SEDIMENT ITEMS WITH CONSTRUCTION  OPERATIONS AS PRACTICAL. IF DIRECTED BY THE ENGINEER, PLANT TEMPORARY SEEDING. REPLACE  SALVAGED TOPSOIL AND DEVICES WHEN AN ACCEPTABLE VEGETATIVE COVER (AT LEAST 70%) HAS  BEEN ATTAINED. AS SITE CONDITIONS WARRANT, THE CONTRACTOR MAY CHOOSE TO MODIFY THE  TYPE OR ARRANGEMENT OF SPECIFIED PRACTICES TO IMPROVE THEIR EFFECTIVENESS AS  APPROVED BY THE ENGINEER. THE CONTRACTOR WILL MAINTAIN A LOG OF MAJOR SOIL  DISTURBANCE ACTIVITIES, AND ALSO THE DATES OF INSTALLATION OF EROSION CONTROL  MEASURES.	NOTE: TEMPORARY EROSION CONTROL METHODS MUST BE USED ON ALL DISTURBED AREAS WHERE CONSTRUCTION ACTIVITIES HAVE CEASED FOR OVER 14 DAYS. METHODS USED WILL BE AS SHOWN ON PLANS, OR AS DIRECTED BY THE ENGINEER.  STRUCTURAL PRACTICES:  STABILIZED CONSTRUCTION EXIT TEMPORARY SILT FENCE TEMPORARY SILT DIKES	WASTE MATERIALS:  PROPER MANAGEMENT AND DISPOSAL OF CONSTRUCTION WASTE MATERIAL IS REQUIRED B CONTRACTOR. MATERIALS INCLUDE STOCKPILES, SURPLUS, DEBRIS AND ALL OTHER B FROM THE CONSTRUCTION PROCESS. PRACTICES INCLUDE DISPOSAL, PROPER MATERIALS PROPERTY.
SOIL TYPE: VERDIGRIS SILTY CLAY LOAM  TOTAL AREA OF THE CONSTRUCTION SITE: 58,127 SQFT (1.33 ACRES)  ESTIMATED AREA TO BE DISTURBED: 33,706 SQFT (0.77 ACRES)  OFFSITE AREA TO BE DISTURBED: (FOR CONTRACTOR USE)  TOTAL IMPERVIOUS AREA PRE-CONSTRUCTION: 0 SQFT (0.00 ACRES)  TOTAL IMPERVIOUS AREA POST-CONSTRUCTION: 4,166 SQFT (0.10 ACRES)	TEMPORARY FIBER LOG  X DIVERSION, INTERCEPTOR OR PERIMETER DIKES  DIVERSION, INTERCEPTOR OR PERIMETER SWALES  ROCK FILTER DAMS  TEMPORARY SLOPE DRAIN  PAVED DITCH W/ DITCH LINER PROTECTION  TEMPORARY DIVERSION CHANNELS  TEMPORARY SEDIMENT BASINS  TEMPORARY SEDIMENT TRAPS  TEMPORARY SEDIMENT FILTERS  X TEMPORARY SEDIMENT FILTERS  X RIP RAP  INLET SEDIMENT FILTER  TEMPORARY BRUSH SEDIMENT BARRIERS  SANDBAG BERMS  TEMPORARY STREAM CROSSINGS	PROPER MANAGEMENT AND DISPOSAL OF HAZARDOUS WASTE MATERIALS IS REQUIRED. CONTRACTOR IS RESPONSIBLE FOR FOLLOWING MANUFACTURER'S RECOMMENDATIONS, STATEDERAL REGULATIONS TO ENSURE CORRECT HANDLING, DISPOSAL, SPILL PREVENTION A MEASURES. EXAMPLES INCLUDE BUT ARE NOT LIMITED TO: PAINTS, ACIDS, CLEANING CHEMICAL ADDITIVES, CONCRETE CURING COMPOUNDS AND CONTAMINATED SOILS.  GENERAL NOTES:  A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS REQUIRED TO COMPLY WITH OKLAHOMA POLLUTION DISCHARGE ELIMINATION SYSTEM (OPDES) REGULATIONS. THIS PINITIATED DURING THE DESIGN PHASE, CONFIRMED IN THE PRE—WORK MEETINGS AND AVON THE JOB SITE ALONG WITH COPIES OF THE NOTICE OF INTENT (NOI) FORM AND PER CERTIFICATE THAT HAVE BEEN FILED WITH THE OKLAHOMA DEPARTMENT OF ENVIRONMENT QUALITY (ODEQ). THE PLAN MUST BE KEPT CURRENT WITH UP—TO—DATE AMENDMENTS THE PROGRESSION OF THE PROJECT, ALL CONTRACTOR OFF—SITE OPERATIONS ASSOCIATE THE PROJECT MUST BE DOCUMENTED IN THE SWPPP, I.E., BORROW PITS, WORK ROADS, SITES, ASPHALT/CONCRETE PLANTS, ETC. THE BASIC GOAL OF STORM WATER MANAGEMEI IMPROVE WATER QUALITY BY REDUCING POLLUTANTS IN STORM WATER DISCHARGES. RUFFROM CONSTRUCTION SITES HAS A POTENTIAL FOR POLLUTION DUE TO EXPOSED SOILS A THE PRESENCE OF HAZARDOUS MATERIALS USED IN THE CONSTRUCTION PROCESS. THE PREVENTION OF SOIL EROSION, CONTAINMENT OF HAZARDOUS MATERIALS AND/OR THE INTERCEPTION OF THESE POLLUTANTS BEFORE LEAVING THE CONSTRUCTION SITE ARE THE PRACTICES FOR CONTROLLING STORM WATER POLLUTION.
POST-CONSTRUCTION RUNOFF COEFFICIENT OF THE SITE: 0.12  LATITUDE & LONGITUDE OF CENTER OF PROJECT: 36.223190° N, -95.786859° E  PROJECT WILL DISCHARGE TO:  NAME OF RECEIVING WATERS: BIRD CREEK	OFFSITE VEHICLE TRACKING: X HAUL ROADS DAMPENED FOR DUST CONTROL  X LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN	THE FOLLOWING SECTIONS OF THE 2019 ODOT STANDARD SPECTIONS OF THE 2019 ODOT STANDARD SPECTION 103.05 BONDING REQUIREMENTS 104.10 FINAL CLEANING UP 104.12 CONTRACTOR'S RESPONSIBILITY FOR WORK 104.13 ENVIRONMENTAL PROTECTION 106.08 STORAGE AND HANDLING OF MATERIAL 107.01 LAWS, RULES AND REGULATIONS TO BE OBSERVED 107.20 STORM WATER MANAGEMENT 220 MANAGEMENT OF EROSION, SEDIMENTATION AND STORM WATER POLLUTION PREVENTION AND CONTROL TEMPORARY SEDIMENT CONTROL
SENSITIVE WATERS OR WATERSHEDS:  303(D) IMPAIRED WATERS: YES NO  IF YES, LIST IMPAIRMENT: E. COLI, ENTEROCOCCUS  LOCATED IN A TMDL: YES NO  LAKE THUNDERBIRD TMDL: YES NO  MS4 ENTITY YES NO  IF YES, LOCATION: TULSA COUNTY	NOTES:	IN ADDITION:  "ODEQ GENERAL PERMIT (OKR10) FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES WITHIN THE STATE OF OKLAHOMA." ODEQ, WATER QUALITY DIVISION, SEPTEMBER 13, 2017.  STO
NOTE: THIS SHEET SHOULD BE USED IN CONJUNCTION WITH A DRAINAGE MAP THAT ILLUSTRATES THE DRAINAGE PATTERNS/PATHWAYS AND RECEIVING WATERS FOR THIS PROJECT. THIS SHEET SHOULD ALSO BE USED WITH THE EROSION CONTROL SUMMARIES, PAY ITEMS, & NOTES.		ANDRES BECKER 32388 4 10 101 101 101 101 101 101 101 101 10

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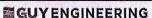
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## CIFICATIONS SHOULD

BIRD CREEK 153120-C2

ORM WATER MANAGEMENT PLAN

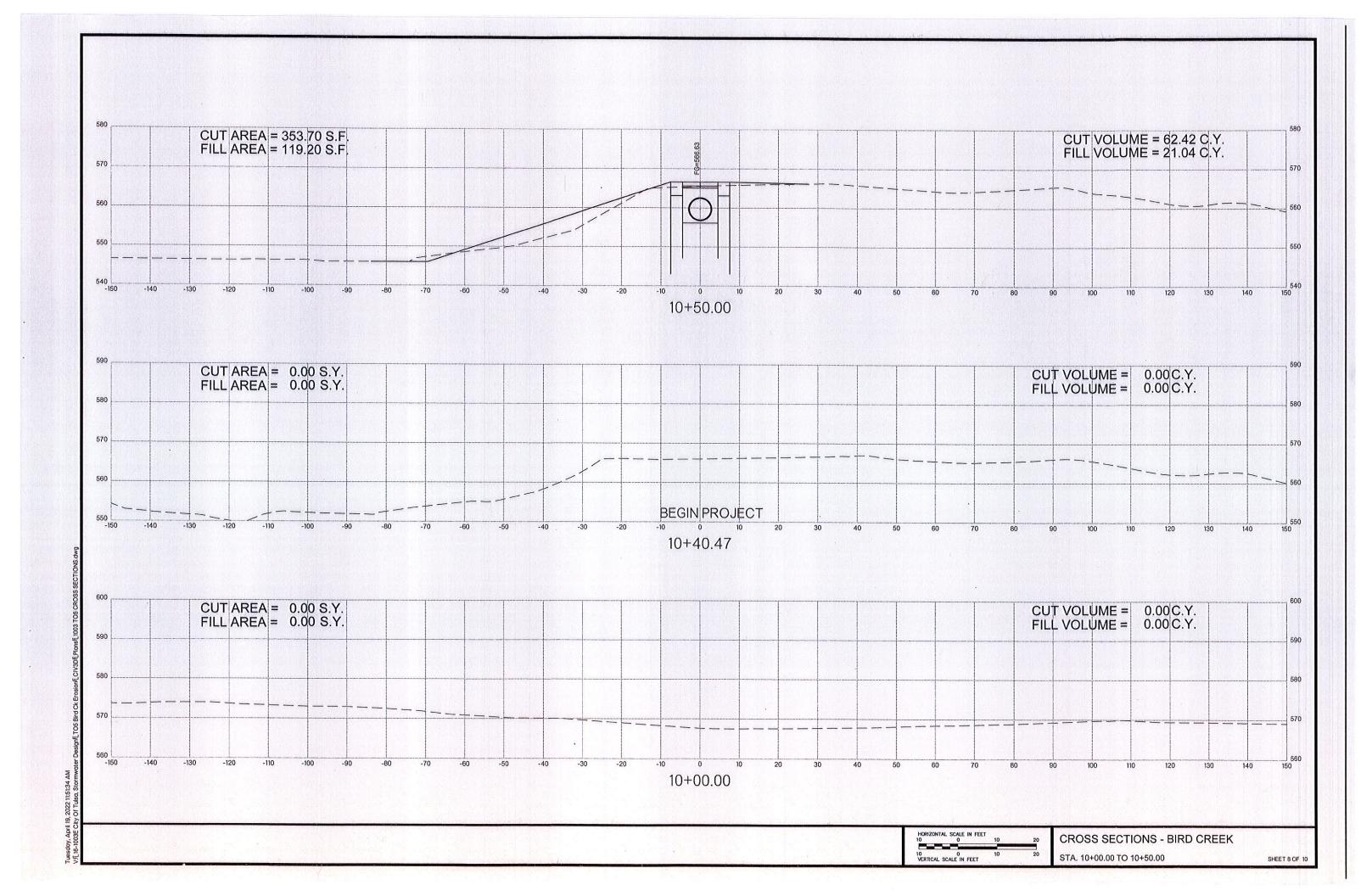
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT

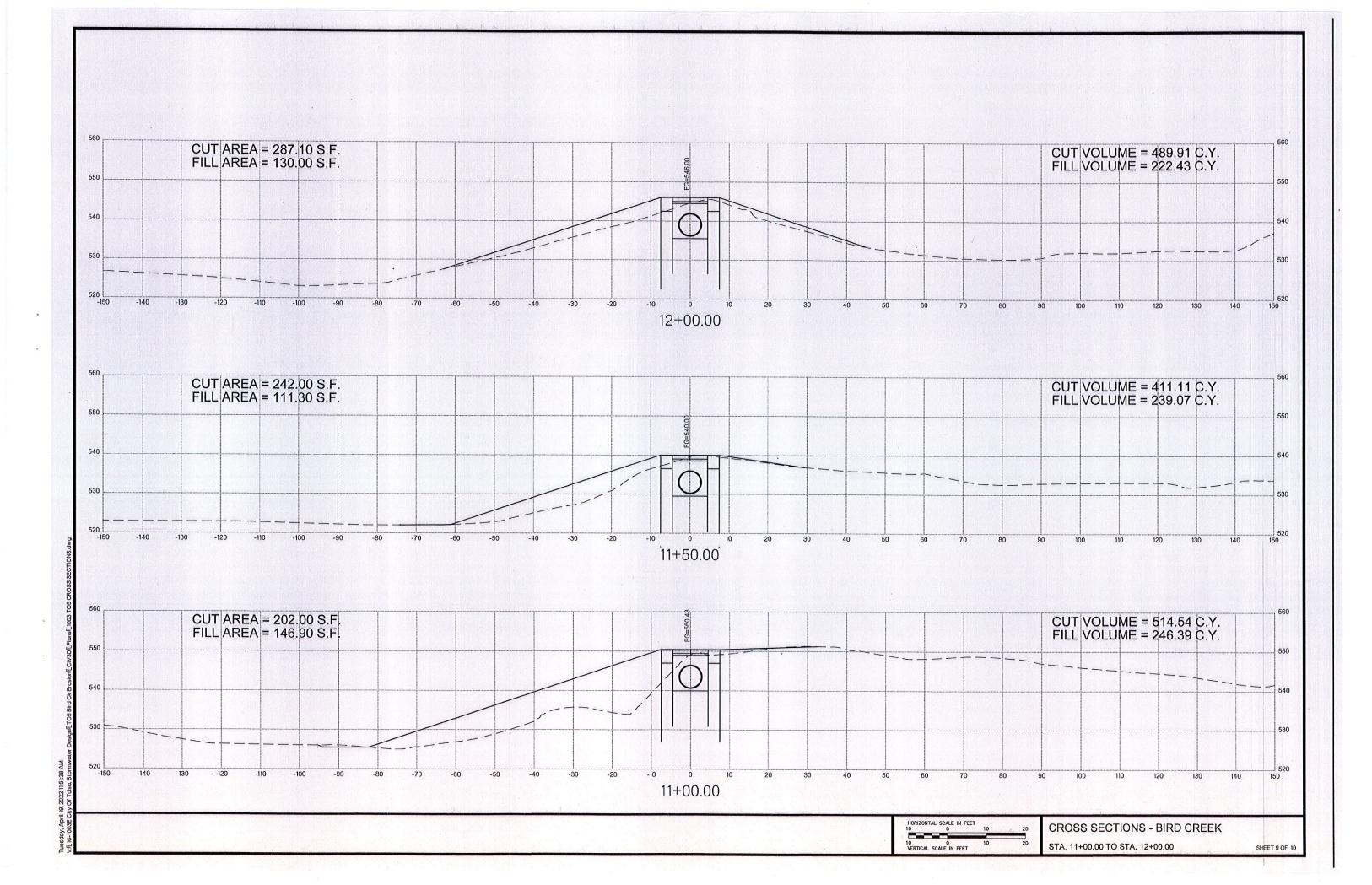


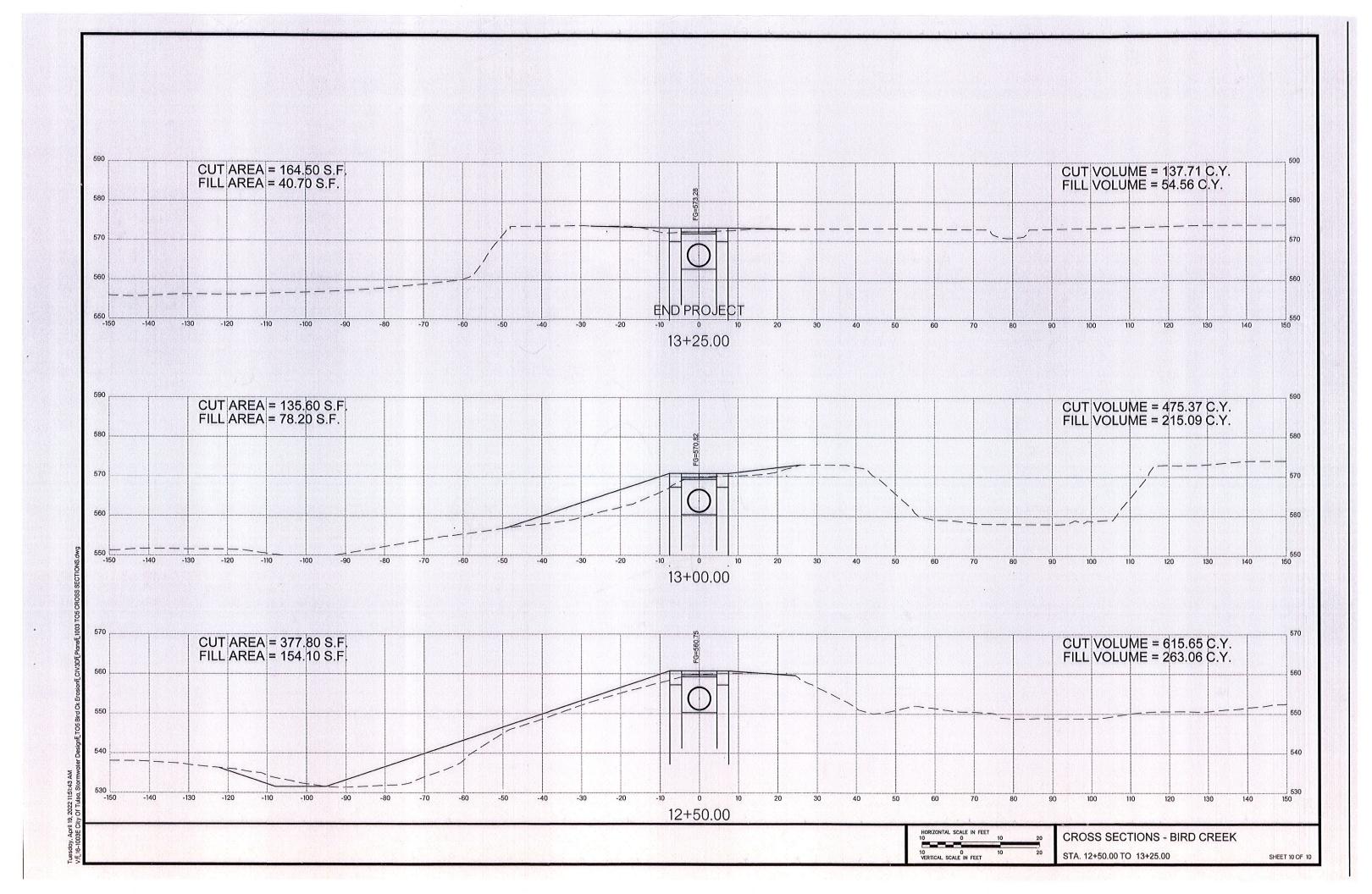




			6910 E. 14th St. TULSA, OK 74112 (918) 437-0282 GUYengr.com					
REVISION	BY	BY DATE	PLAN SCALE	DRAWN	BLP	04/22	APPROVED:	
		SE SE	N/A	DESIGNED	AB	04/22		
			14.	FIELD SURVEY	12/0/6			
			PROFILE SCALE	PROJECT MGR.	CAG	5/11		
		100	HORIZONTAL	LEAD ENGRES	Boc	5/22		
		TEN	N/A			An	100	
			VERTICAL N/A	RECOMMENDED:	HAS	5.22	/hlos	
			FILE:	DRAW	VING:	N. W.	DATE 7/8/22	
		THE S	ATLAS PAGE	NO: 442			SHEET 7 OF 1 OSHEETS	







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