

Canadian _____ County, Oklahoma
 COUNTY PURCHASING OFFICE
 Canadian _____ County Court House
 El Reno _____, Oklahoma
 Phone: (405) 295-6125

INVITATION TO BID

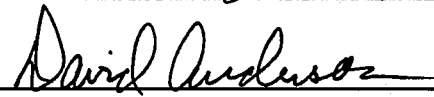
PLEASE REVIEW TERMS AND CONDITIONS ON REVERSE
 SIDE RELATING TO SUBMISSION OF THIS BID.
 Notarized Affidavit completions and signature required on reverse side.

DATE ISSUED
 May 8, 2017
 Page 1 of 2

BID NUMBER #2017-#15 Maple Road Project / District #2	BID CLOSING DATE AND HOUR June 2, 2017 @ 4:00pm	REQUIRED DELIVERY DATE SEE SPECIFICATIONS _____ Days after award of Purchase Order
--	--	--

TERMS Net, FOB this bid will open June 5, 2017 at 9:30am	DATE OF DELIVERY: SEE SPECIFICATIONS
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ITEM	QUANTITY	UNIT OF ISSUE	DESCRIPTION	UNIT PRICE	TOTAL
1 or more			Canadian County Distirct #2 is seeking bids for: See Specifications attached. The Board of Canadian County Commissioners reserves the right to reject any and all bids or to award all or any portion of the items bid. All data will be considered in the awarding of the bid including the delivery time. <u>The terms & conditions of this document must be completed and returned or the bid will be rejected.</u> Contact person: Dave Anderson, District #2 Commissioner 201 N Choctaw El Reno, OK 73036 (405) 205-8955		\$ _____ Total

APPROVED
 Date: 5-5-2017

 Officer or Department Head

STATE OF OKLAHOMA
 CANADIAN COUNTY
 FILED OR RECORDED

MAY 08 2017

 SHERRY MURRAY
 COUNTY CLERK

170299

TERMS AND CONDITIONS

1. Sealed bids will be opened in the Commissioner's Conference Room, Canadian County Courthouse, 201 N. Choctaw Avenue, El Reno, Oklahoma, at the time and date shown on the invitation to bid form.
2. Late bids will not be considered. Bids must be received in sealed envelopes (one to an envelope) with bid number and closing date written on the outside of the envelope.
3. Unit prices will be guaranteed correct by the bidder.
4. Firm prices will be F.O.B. destination.
5. Purchases by Canadian County, Oklahoma, are not subject to state or federal taxes.
6. This bid is submitted as a legal offer and any bid when accepted by the County constitutes a firm contract.
7. Oklahoma laws require each bidder submitting a bid to a county for goods or services to furnish a notarized sworn statement of non-collusion. A form is supplied below.
8. Bids will be firm until 07/05/2017
(DATE)

AFFIDAVIT: I, the undersigned, of lawful age, being first duly sworn on oath say that he (she) is the agent authorized by the bidder to submit the above bid. Affiant further states that the bidder has not been a party to any collusion among bidders in restraint of freedom of competition by agreement to bid at a fixed price or to refrain from bidding; or with any state official or employee as to quantity; quality or price in the prospective contract or any other terms of said prospective contract; or in any discussions between bidders and any state official concerning exchange of money or other thing of value for special consideration in the letting of a contract; that the bidder/contractor has not paid, given or donated or agreed to pay, give or donate to any officer or employee of the State of Oklahoma (or other entity) any money or other thing of value, either directly or indirectly in the procuring of the award of a contract pursuant to this bid.

Subscribed and sworn before this _____ day

of _____, 20 _____

(SEAL)

Firm: _____

My commission expires _____

Signed by: _____ Title: _____
(Manual Signature of Undersigned)

NOTARY PUBLIC (CLERK OR JUDGE)

Address: _____ Phone: _____

City: _____ State: _____

Zip: _____

Please mail sealed bids to:
Canadian County Clerk's Office
Attn: Purchasing
PO Box 458
El Reno, OK 73036

Street Address:
201 N Choctaw Avenue
El Reno, OK 73036

Handwritten notes and stamps, including a date stamp 'JUL 5 2017' and a signature.

STATE OF OKLAHOMA
COUNTY CLERK
CANADIAN COUNTY

NOTE: Other terms and conditions can be added at the discretion of the county officers.

CANADIAN COUNTY
CLERK'S OFFICE

2017



**Canadian County
Purchasing**

Bid Specifications

Date Issued: May 8, 2017

Bid Number: **2017-#15**

Closing Date: June 2, 2017 at 4:00pm

PO Box 458, 201 N. Choctaw Ave., El Reno, OK 73036

Opening Date: June 5, 2017 at 9:30am

Commissioner's Meeting Room, 201 N. Choctaw Ave., El Reno, OK 73036

~ SPECIFICATIONS~

Maple Road Project / District #2

Canadian County District #2 is seeking bids for the following project:

SEE PLANS ATTACHED:

Project Specifications:

Awarded vendor will have 2 weeks from the date bid is awarded to prepare and present a written contract to the Board of County Commissioners for approval. Unless the contractor receives prior approval of a delayed start and completion time from Canadian County the project must begin no later than one (4) weeks from the contract approval and the entire project must be completed within two (2) weeks of the start date.

Final Acceptance:

Prior to final acceptance a final walk-through will be performed with the contractor and a representative of Canadian County.

Payment Schedule:

90% of the lump sum amount will be paid upon completion of all items of work. The final 10% will be paid upon completion and approval of the Final Acceptance of Work.

Bids shall be accompanied by:

- A certified check, cashier's check or bid bond equal to five percent (5%) of the bid, which shall be deposited with the awarding public agency as a guaranty; or

An irrevocable letter of credit terms the Construction and Properties Division of the Office of Management and Enterprise Services prescribes, issued by a financial institution insured by the Federal Deposit Insurance Corporation or the Federal Savings and Loan Insurance Corporation for the benefit of the state, on behalf of the awarding public agency, in an amount equal to five percent (5%) of the bid. The awarding public agency shall deposit the irrevocable letter of credit with Division.

- Business Relationships Affidavit

- Non-Collusion Bidding Certification

(Please review Title 61 O.S. § 101-138 for full disclosure)

Note

Terms for Payment:

- A purchase order will be issued to the awarded vendor. Once the original itemized invoice is received by the receiving officer it will be processed for payment.

For Information Contact:

Dave Anderson, District #2 Commissioner

Phone: (405) 205-8955

Hours: Monday – Friday 8:00am to 4:00pm

Address: 201 N Choctaw, El Reno, OK 73036

If you have any questions or need additional information, please contact:
Sherry Murray, Purchasing Agent, 405.295.6125 or 405.422.2441
smurray@okcana.cogov.net

Estimate Maple Ave.

Estimated Cost: \$355,866.00

Contingency: 0.00%

Estimated Total: \$355,866.00

Canadian County – Maple Ave. CRD2N283.517

Work Type: Asphalt Construction 4" Type S3 and 2" Type S4

Highway Type: ASPHALT

Urban/Rural Type: RURAL

Season: SUMMER

County: CANADIAN

Estimate Type: Preliminary

Prepared by Danny Powell with MKEC 04/25/2017

BUSINESS RELATIONSHIPS AFFIDAVIT

_____ (PROJECT NAME)

STATE OF OKLAHOMA)
)SS
COUNTY OF _____)

_____, of lawful age, being duly sworn, on oath says that he or she is the agent authorized by the bidder to submit the attached bid. Affiant further states that the nature of any partnership, or other business relationship presently in effect, of which existed within one (1) year prior to the date of this statement with the architect, engineer, or other party to the project is as follows:

Affiant further states that any such business relationship presently in effect of which existed within one (1) year prior to the date of this statement between any officer or director of the bidding company and any officer or director of the architectural or engineering firm or other party to the project is as follows:

Affiant further states that the names of all persons having any such business relationships and the positions they hold with their respective companies or firms are as follows:

(If none of the business relationships herein above mentioned exist, affiant should so state.)

(Signature of Affiant)

Subscribed and sworn to before me this _____ day of _____, 20 ____

Notary Public _____

My Commission Expires _____

NON-COLLUSION BIDDING CERTIFICATION

_____ (PROJECT NAME)

STATE OF OKLAHOMA)
)SS
COUNTY _____)

A. For purposes of competitive bids, I certify:

1. I am the duly authorized agent of _____,
the bidder submitting the competitive bid which is attached to this statement, for the purpose of certifying the facts pertaining to the existence of collusion among bidders and between bidders and state officials or employees, as well as facts pertaining to the giving or offering of things of value to government personnel in return for special consideration in the letting of any contract pursuant to the bid to which this statement is attached;
2. I am fully aware of the facts and circumstances surrounding the making of the bid to which this statement is attached and has been personally and directly involved in the proceedings leading to the submission of such bid; and
3. Neither the bidder nor anyone subject to the bidder's direction or control has been a party to the following:
 - a. Any collusion among bidders in restraint of freedom of competition by agreement to bid at a fixed price or to refrain from bidding;
 - b. Any collusion with any state official or employee as to quantity, quality or price in the prospective contract, or as to any other terms of such prospective contract; and
 - c. Any discussions between bidders and any state official concerning exchange of money or other thing of value for special consideration in the letting of a contract.

B. I certify, if awarded the contract, whether competitively bid or not, that neither the Contractors nor anyone subject to the Contractor's direction or control has paid, given, or donated or agreed to pay, give, or donate to any officer or employee of the State of Oklahoma any money or other thing of value, either directly or indirectly, in procuring the contract to which this statement is attached.

Certified this _____ day of _____, 20__.

(Signature)

(Print Name)

(Position in the Company)



**Canadian County
Purchasing**

Affidavit / Proof of Mailing

Date Issued: May 8, 2017
Bid Number: **2017-#15**
Closing Date: June 2, 2017 at 4:00pm
PO Box 458, 201 N. Choctaw Ave., El Reno, OK 73036
Opening Date: June 5, 2017 at 9:30am
Commissioner's Meeting Room, 201 N. Choctaw Ave., El Reno, OK 73036

~ AFFIDAVIT ~
Maple Road Project / District #2

State of Oklahoma)
County of Canadian) §

I, Lindsey Garrett, Purchasing Agent, in and for said County and State, do hereby certify that "Invitations to Bid" were sent to the following:

Asphalt Producers Inc
105 NE 44th
Oklahoma City, OK 73105

Atlas Paving Co
Attn: Tyle
PO Box 75727
Oklahoma City, OK 73147

Bid Clerk
projects@bidclerk.com

Bid News
projects@isqft.com

Bishop Paving Co Inc
PO Box 1334
Oklahoma City, OK 73101

Bordwine Development Inc
1102 Pikes Peak Road
Chickasha, OK 73018

Dodge Data & Analytics
support@construction.com

ePlan
4118 South Providence, Suite 105
Columbia, MO 65203

Francis Tuttle Vo-Tech
Attn: Bid Assistance – Judy Robbins
12777 N Rockwell
Oklahoma City, OK 73142

Haskell Lemon Construction Co
PO Box 75608
Oklahoma City, OK 73147 City, OK 73142

Logan County Asphalt Co
2905 Commerce Blvd
Guthrie, OK 73044

Online Data Service
3295 River Exchange Drive, Suite 213
Norcross, GA 30092

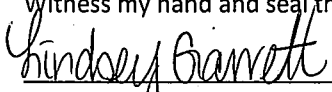
Reed Construction
30 Technology Pkwy South, Suite 100
Norcross, GA 30092

Schwarz Asphalt LLC
8251 W Reno
Oklahoma City, OK 73127

T & C Asphalt Materials LLC
406 N Blaine Avenue
Chandler, OK 74834

TJ Campbell Construction Co
PO Box 15129
Oklahoma City, OK 73155

Witness my hand and seal this 8th day of May, 2017.


Lindsey Garrett, Purchasing Agent
(SEAL)





**Canadian County
Purchasing**

BID CHECKLIST

Date Issued: May 8, 2017
Bid Number: **2017-#15**
Closing Date: June 2, 2017 at 4:00pm
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**TO HELP PREVENT BIDS FROM BEING REJECTED FOR LACK OF COMPLETION
PLEASE CHECK FOR THE FOLLOWING:**

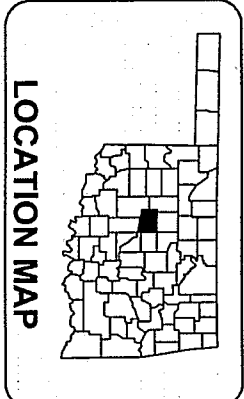
- Is the Invitation to Bid Signed and Notarized? _____
- Is the bid bond or cashier's check enclosed? _____
- Is the Business Relationships Affidavit enclosed? _____
- Is the Non-Collusion Bidding Certificate enclosed? _____
- Are all applicable spaces filled in? _____
- Are all necessary papers enclosed? _____
- Is the Bid # and Opening Date on outside of return envelope? _____

Thank You,

Lindsey Garrett, Purchasing Agent

SURVEY DATA

- HORIZONTAL CONTROL FOR THIS SURVEY IS THE ESTABLISHED SECTION CORNERS ALONG THE SURVEY.
- VERTICAL CONTROL
 LEVEL DATUM IS MEAN SEA LEVEL (U.S.C. & G.S.).



DESIGN DATA	
ADT 2017	= 100
ADT 2037	= 149
V	= 40 MPH
(20) FLEX ESAL'S	= 0.06M

SCALES
 PLAN 1:50
 PROFILE HOR. 1:50
 VER. 1:10
 LAYOUT MAP 1"=5280'

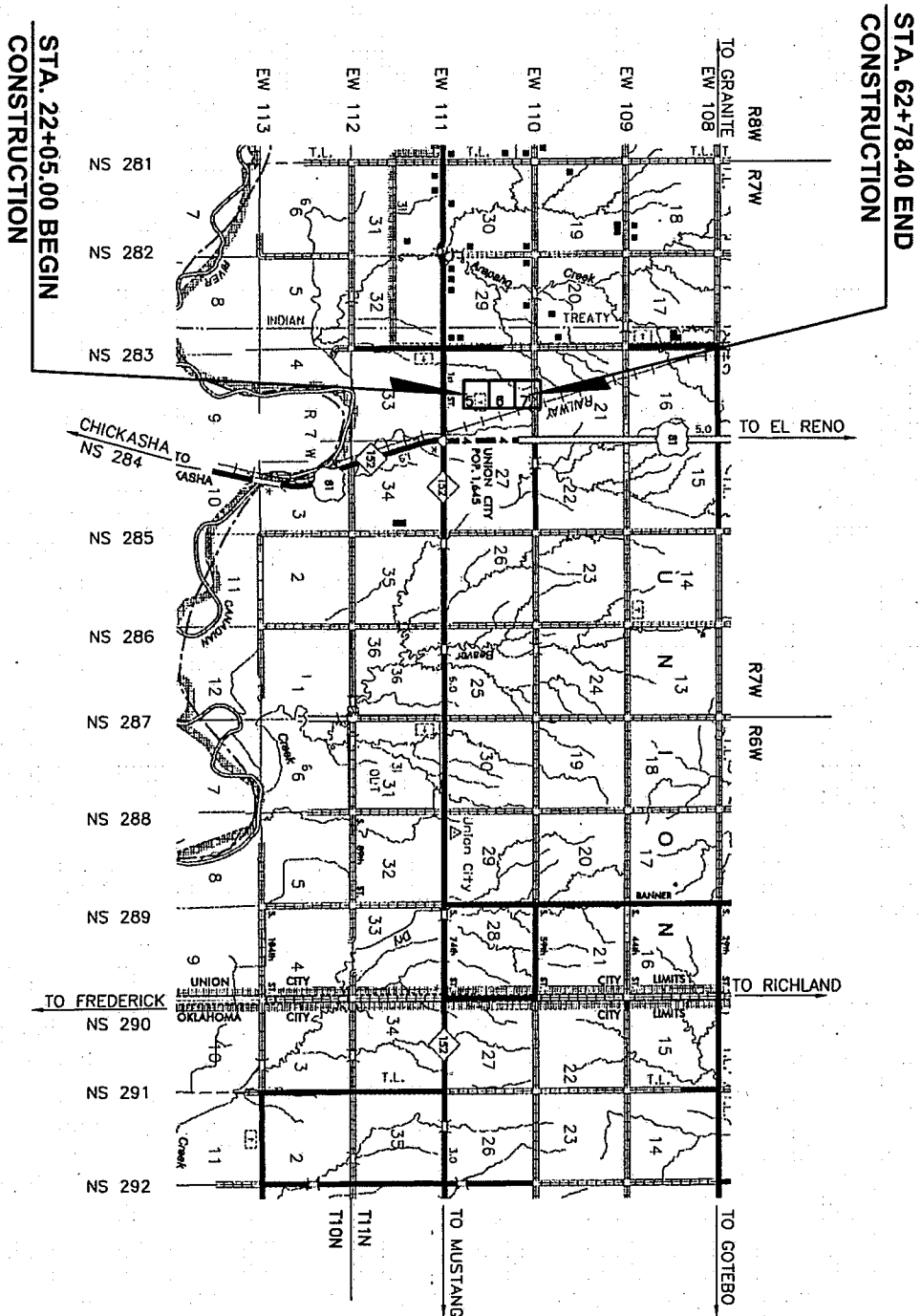
CONVENTIONAL SYMBOLS

PROPOSED ROADS	SECTION LINES	QUARTER SECTION LINES
EXISTING GRADE	EXISTING GRADE	EXISTING ROADS
PROPOSED GRADE	COMMUNICATION LINES (EXISTING)	POWER LINES (EXISTING)
OVERHEAD POWER LINES (EXISTING)	POWER UNDER GROUND LINES (EXISTING)	GAS LINE (EXISTING)
SANITARY SEWER LINES (EXISTING)	WATER LINES (EXISTING)	COMMUNICATION LINES (PROPOSED)
POWER LINES (PROPOSED)	GAS LINE (PROPOSED)	SANITARY SEWER LINES (PROPOSED)
STORM SEWER LINES (PROPOSED)	WATER LINES (PROPOSED)	BUILDINGS
DRAINAGE STRUCTURES (EXISTING)	DRAINAGE STRUCTURES (PROPOSED)	RIGHT-OF-WAY LINES (EXISTING)
RIGHT-OF-WAY LINES (PROPOSED)	RIGHT-OF-WAY FENCE	FLOWLINE (EXISTING)
FLOWLINE (PROPOSED)	TOE OF SLOPE (EXISTING)	TOE OF SLOPE (PROPOSED)
LANDSCAPE		

STATE OF OKLAHOMA
 DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED
 COUNTY ROAD
 GRADING, DRAINING, AND SURFACING PLANS
 NS-283.5 MAPLE AVE.

CANNADIAN COUNTY
 LATITUDE N35°24'02" LONGITUDE W97°56'45"



ROADWAY LENGTH _____ 4.073.40 FT _____ 0.771 MI
 PROJECT LENGTH _____ 4.073.40 FT _____ 0.771 MI
 EQUATIONS _____ NONE

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	TYPICAL SECTIONS
3	SUMMARY OF PAY QUANTITIES & GENERAL NOTES
4	STORMWATER MANAGEMENT PLAN
5-7	PLAN AND PROFILE SHEETS
X1-X10	CROSS SECTIONS

THE FOLLOWING 2008 STANDARD DRAWINGS WILL BE A PART OF THIS PROJECT:

ROADWAY	TRAFFIC
SSS-1-1	SSA1-1-00
TSC2-3-2	SSP1-1-02
TSD-2-0	GMS-1-1-00
PSE-1-0	SZSD-1-00
RDC-3-1	SBST-1-00
	WSD1-1-0
	RS01-1-00
	DU2-1-00
	DU1-1-00
	PM3-1-02
	TC99-1-01
	TC98-1-00
	TC97-1-02
	TC95-1-00
	TC94-1-01
	TC91-01
	TC92-1-00
	TC93-1-01
	TC96-1-02

APPROVED:
 BOARD OF COUNTY COMMISSIONERS

MARC HADER DISTRICT NO. 1

DAVID ANDERSON DISTRICT NO. 2

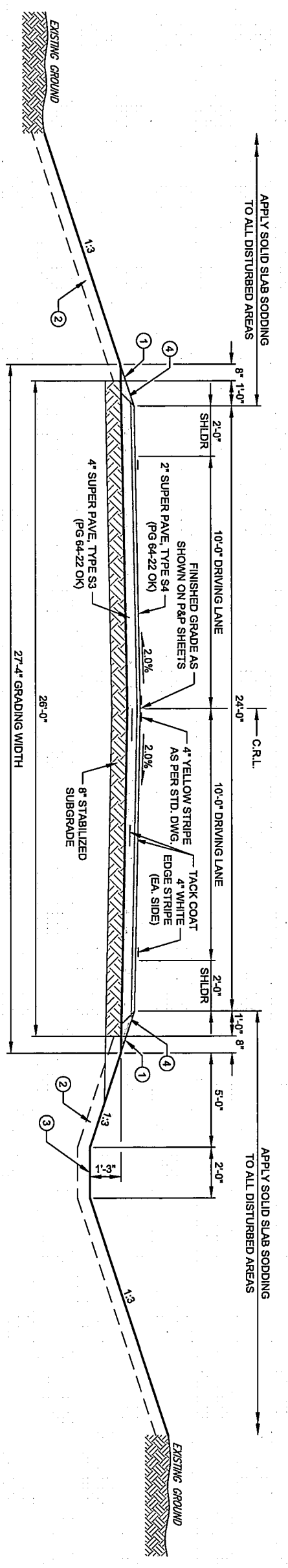
JACK STEWART DISTRICT NO. 3

ATTEST

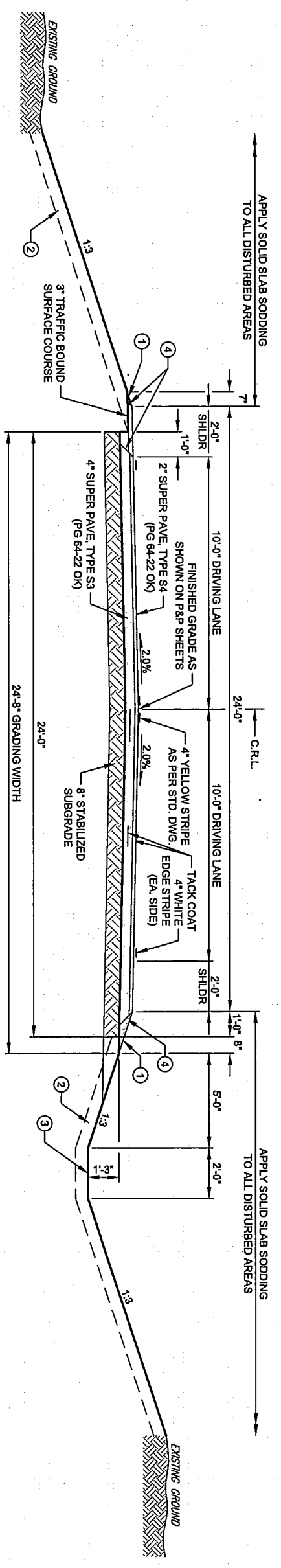
SHERY MURRAY COUNTY CLERK DATE _____



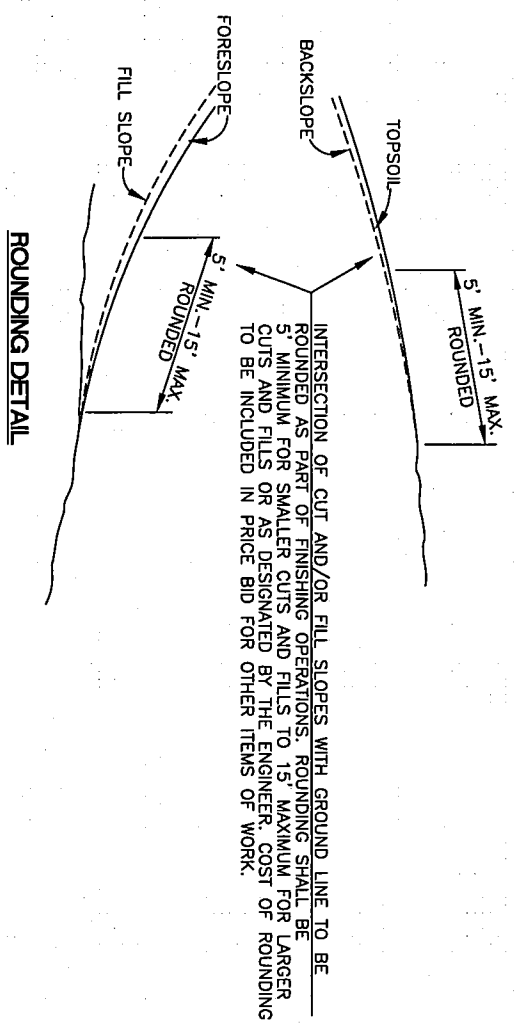
PREPARED BY:
 MKEC-ENGINEERING, INC.
 CA#2959 06/29/17
 OKLAHOMA CITY, OKLAHOMA
 DRAWN BY: POWELL, P.E.
 O.A. REG. NO. 27553



TYPICAL SECTION
STA. 32+00 TO STA. 62+78.40



TYPICAL SECTION
STA. 22+05.00 TO STA. 32+00



INTERSECTION OF CUT AND/OR FILL SLOPES WITH GROUND LINE TO BE ROUNDED AS PART OF FINISHING OPERATIONS. ROUNDED SHALL BE 5' MINIMUM FOR SMALLER CUTS AND FILLS TO 15' MAXIMUM FOR LARGER CUTS AND FILLS OR AS DESIGNATED BY THE ENGINEER. COST OF ROUNDED TO BE INCLUDED IN PRICE BID FOR OTHER ITEMS OF WORK.

DRAINAGE STRUCTURE DESIGN RECORD

STR. NO.	STATION	EXISTING STRUCTURE	AREA IN PLACE	DRAINAGE AREA	C ₁	T ₁	INTENSITY OF DESIGN YEAR RAINFALL AND CHECK YEAR RAINFALL					DESIGN YEAR DISCHARGE AND CHECK YEAR DISCHARGE					FULL FLOW CAPACITY	STRUCTURE SLOPE	OUTLET VELOCITY	REMARKS
							COEF.	TIME OF CONCN.	I	I ₁₀	I ₅	I ₂	I ₁	Q ₅	Q ₁₀	Q ₂				
1	30+15.00	18"	1.77	8.00	0.30	30.85	2.87	3.27	3.78	4.30	4.78	6.88	7.84	9.08	10.33	11.47	9.35	0.0270	5.92	RP RAP OUTLET
2	35+81.00	24"	3.14	17.92	0.30	57.49	2.34	2.66	3.09	3.51	3.90	12.58	14.32	16.59	18.87	20.96	50.76	0.0429	11.70	RP RAP OUTLET
3	49+91.00	48"	12.57	82.82	0.30	48.91	2.59	2.95	3.41	3.88	4.31	64.29	73.22	84.83	96.44	107.15	110.03	0.0200	9.37	RP RAP OUTLET
4	53+82.00	19"	1.97	1.00	0.30	15.13	4.72	5.38	6.23	7.08	7.87	1.42	1.81	1.87	2.12	2.36	33.6	0.0661	8.28	RP RAP OUTLET

- NOTES:**
- BACKFILL NOTE: TO BE BACKFILLED AND COMPACTED AS PART OF THE FINISHING OPERATIONS. COST TO BE INCLUDED IN OTHER ITEMS OF WORK.
 - TOPSOIL NOTE: THE CONTRACTOR SHALL STRIP ALL OF THE AVAILABLE TOPSOIL, STOCKPILE IT, AND PLACE IT BACK ON THE SECTION IN ACCORDANCE WITH SECTION 205 OF THE STANDARD SPECIFICATION. RESERVED TOPSOIL SHALL BE SPREAD APPROX. 5" THICK FIRST ON THE COMPLETED FILL SLOPES OR OTHER PRIORITY AREAS LOCATED BY THE ENGINEER. ALL ADDITIONAL COSTS ASSOCIATED WITH OPERATION SHALL BE INCLUDED IN THE PAY ITEM FOR TYPE A-SALVAGED TOPSOIL, LUMP SUM.
 - ALL DITCHES HAVE 2' BOTTOM UNLESS SHOWN OTHERWISE ON CROSS SECTIONS.
 - USE 30" SAFETY EDGE AS PER ODOT STANDARD PSE-1-0 LATEST EDITION.

DESIGN: DLP MAPLE AVE. CANADIAN COUNTRY
 DRAWN: WNU
 CHECKED: DLP
 MKEC ENG.
 PROJ. NO. _____
TYPICAL SECTIONS
 SHEET NO. 2

REV. NO.	DESCRIPTION	RECORDS	DATE

ROADWAY PAY QUANTITIES			
ITEM NUMBER	DESCRIPTION	UNITS	QUANTITY
408	PRIME COAT	5)(R-28)	4,189.00
411(B)	SUPERPAVE, TYPE S3 (PG 64-22 OK)	(R-30)(R-32)	2,392.00
411	SUPERPAVE, TYPE S4 (PG 64-22 OK)	(R-32)	1,196.00
854(A)	TRAFFIC STRIPE (PAINT) (4" WIDE)	(10)	16,180.00
880(J)	CONSTRUCTION TRAFFIC CONTROL	(11)	1.00

PAY QUANTITIES "BY COUNTY FORCES"			
ITEM NUMBER	DESCRIPTION	UNITS	QUANTITY
201(A)	CLEARING AND GRUBBING	LSUM	1.00
202(H)	EARTHWORK	LSUM	1.00
221(C)	TEMPORARY SILT FENCE	(3)	7,702.00
221(F)	TEMPORARY SILT DIKE	LF	18.00
230(A)	SOLID SLAB SODDING	SY	5,299.00
307(K)	STABILIZED SUBGRADE	TON	11,806.00
402(E)	TRAFFIC BOUND SURFACE COURSE TYPE E	(4)(R-25)	92.00
601(A)	TYPE I PLAIN RIPRAP	TON	73.00
619(B)	REMOVAL OF ASPHALT PAVEMENT	(6)(R-49)(R-50)	228.00
629(E)	REMOVE AND RESET MAILBOX	(7)	1.00
805(D)	(P)REMOVE & RESET EXISTING SIGNS	EA	0.00
850(A)	B110 SHEET ALUMINUM SIGNS	5F	15.18
851(C)	B327 2 1/4" SQUARE TUBE POST	LF	27.00

PAY QUANTITIES			
ITEM NUMBER	DESCRIPTION	UNITS	QUANTITY
641	MOBILIZATION	LSUM	1.00

PAY QUANTITIES (BY COUNTY FORCES)			
ITEM NUMBER	DESCRIPTION	UNITS	QUANTITY
642(B)	CONSTRUCTION STAKING LEVEL II	(12)	1.00

PAY QUANTITIES (BY COUNTY FORCES)			
ITEM NUMBER	DESCRIPTION	UNITS	QUANTITY
220	SWPPP DOCUMENTATION AND MANAGEMENT	LSUM	1.00

EARTHWORK QUANTITIES **			
STATION TO STATION	UNCLASSIFIED EXCAVATION (CY)	EMBANKMENT *15% (CY)	BORROW (CY)
MAPLE AVE:			
22+405.00 to 62+78.40	185	1379	1194
TOTAL	185	1379	1194

** For Information Only. Quantities are based on average end area volume computations using plan cross-sections.

SCHEDULE OF DRIVEWAYS (BY COUNTY FORCES)							
STATION/LOCATION	WIDTH (FT.)	ADD'L LENGTH BEHIND RETURN (FT.)	RETURN RADIUS (FT.)	Superpave, Type S3 (pg 64-22 OK) (ton)	Superpave, Type S3 (pg 64-22 OK) (ton)	3" TRSC TYPE (S.Y.)	Remarks
22+40.91, LL	20.1		15.0			8.0	PRVT. DRIVE
24+53.92, LL	16.5	17.9	15.0			9.5	PRVT. DRIVE
35+15.58, RL	34.0		15.0			8.1	FIELD ENT.
47+82.48, LL	19.5	8.2	15.0			8.2	FIELD ENT.
61+28.93, LL	34.8		15.0			9.3	FIELD ENT.
61+30.79, RL	36.1		15.0			9.6	FIELD ENT.
Totals						51.7	

PAY QUANTITY NOTES

- (R-7) FOR 230(A) PRICE BID TO INCLUDE COST OF 10-20-10 FERTILIZER, ESTIMATED AT 200 LBS. PER 1,000 SQUARE YARDS.
- (R-8) FOR 230(A) PRICE BID TO INCLUDE COST OF WATERING, ESTIMATED AT 80 GALLONS PER SQUARE YARD.
- (R-25) ESTIMATED AT 120 LBS. PER CU. FT.
- (R-28) PRIME COAT SHALL BE APPLIED AT AN ESTIMATED RATE OF 0.35 GAL. PER SQ. YD. WHEN APPLIED TO SUBGRADE, AND 0.25 GAL. PER SQ. YD. WHEN APPLIED TO AGGREGATE BASE. THE ACTUAL CUTBACK PRIME COAT REQUIRED FOR PLACEMENT OPERATIONS WILL BE DETERMINED BY THE CONTRACTOR, AND SHALL CONSIDER THE RESIDUE FROM DISTILLATION PERCENTAGE SHOWN IN SECTION 708.03 OF THE STANDARD SPECIFICATIONS.
- (R-30) PRICE BID TO INCLUDE COST OF 3,292 GALLONS OF TACK COAT, MEETING THE REQUIREMENTS OF SECTION 407 OF THE STANDARD SPECIFICATIONS.
- (R-32) ESTIMATED AT 112 LBS. PER SQ. YD. PER 1" THICK.(R-41)
- (R-49) TO BECOME THE PROPERTY OF AND BE DISPOSED OF BY THE CONTRACTOR IN A MANNER APPROVED BY THE ENGINEER.
- (R-50) MATERIALS REMOVED SHALL NOT BE MEASURED FOR PAYMENT UNDER SECTION 202.06 UNCLASSIFIED EXCAVATION.
- (1) SEE SCHEDULE OF EARTHWORK QUANTITIES THIS SHEET.
- (2) INCLUDES COST OF SALVAGING AND PLACING TOPSOIL, APPROXIMATELY 25 FEET WIDE BY 5 INCHES DEEP FROM STA. 22+405 TO STA. 62+50 ON COMPLETED FORESLOPE, DITCHES AND BACKSLOPES, AND 18-46-0 FERTILIZER (ESTIMATED AT 150 LBS PER ACRE). SEE TOPSOIL NOTE, SHEET NO. XX.
- (3) INCLUDES COST OF TEMPORARY SEDIMENT REMOVAL.
- (4) INCLUDES 10 TONS TO BE USED AS DIRECTED BY THE ENGINEER.
- (5) INCLUDES 134 GALLONS FOR RURAL DRIVES.
- (6) COST INCLUDES SAWING PAVEMENT IN A MANNER APPROVED BY THE ENGINEER.
- (7) THE COUNTY SHALL REMOVE AND RESET MAILBOXES AS NECESSARY. MAILBOXES ARE TO BE MAINTAINED IN AN UPRIGHT POSITION AND ACCESSIBLE TO MAIL CARRIER'S CAR DURING CONSTRUCTION. ANY DAMAGE TO BOXES OR SUPPORTS SHALL BE REPAIRED BY THE CONTRACTOR.
- (8) HIGH INTENSITY REFLECTIVE SHEETING, TYPE III SHALL BE USED FOR ALL PERMANENT SIGNING.
- (9) INCLUDED IN THIS PAY ITEM IS ALL HARDWARE ASSOCIATED WITH PROPERLY ANCHORING AND MOUNTING THE HIGHWAY SIGN IN ACCORDANCE WITH THE O.D.O.T. PLANS AND STANDARD DRAWINGS SSA1-1 AND SSP1-1 (LATEST EDITION).
- (10) QUANTITY INCLUDES 8,090 LF OF 4" YELLOW STRIPE AND 8,090 LF OF 4" WHITE EDGE STRIPE.
- (11) CONSTRUCTION TRAFFIC CONTROL SHALL INCLUDE ALL BARRICADES AND SIGNS REQUIRED ON EACH END OF THE CONSTRUCTION AREA AND OTHER AREAS DESIGNATED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION SIGNS, BARRICADES, LIGHTS, ETC., ACCORDING TO THE STANDARDS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, AND AS SHOWN ON THE STANDARD DRAWINGS. COST OF ALL NECESSARY CONSTRUCTION SIGNING WILL BE INCLUDED IN THE LUMP SUM PRICE BID FOR "CONSTRUCTION TRAFFIC CONTROL."
- (12) IN ADDITION TO THE RESPONSIBILITIES SHOWN IN THE SPECIFICATIONS, THE COUNTY SHALL BE RESPONSIBLE FOR LOCATING AND/OR REESTABLISHING THE SURVEY CONTROL POINTS SHOWN ON THE PLANS, STAKING THE CENTERLINE OF CONSTRUCTION AND REESTABLISHING RIGHT-OF-WAY STAKES. THE COUNTY SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING BENCH MARKS SHOWN ON THE PLANS AND FOR ESTABLISHING NEW BENCH MARKS AS NEEDED TO CONSTRUCT THE PROJECT.

GENERAL NOTES

SPECIFICATIONS:
 COMPLETE WITH THE REQUIREMENTS OF THE 2009 OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, AS APPROVED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION JANUARY 4, 2010, EXCEPT AS MODIFIED BY THE PLANS AND SPECIAL PROVISIONS.

ALL TREES, BRUSH AND OTHER DEBRIS THAT MIGHT INTERFERE WITH THE FLOW OF WATER SHALL BE CLEANED OUT TO THE RIGHT-OF-WAY LINE. AT EACH STRUCTURE AND BRIDGE, IN A MANNER APPROVED BY THE ENGINEER. ALL COST TO BE INCLUDED IN OTHER ITEMS OF WORK.

ALL FLOWLINES THAT ARE TO BE FILLED SHALL BE THOROUGHLY TAMPED BEFORE CONSTRUCTION OR EXTENSION OF DRAINAGE STRUCTURES. ALL COST TO BE INCLUDED IN OTHER ITEMS OF WORK.

CREEK AND RIVER BANKS SHALL BE KEPT IN THEIR NATURAL STATE AS MUCH AS POSSIBLE. THE CONTRACTOR SHALL NOT UNDULY STRIP EXISTING PROTECTIVE VEGETATION IN THE VICINITY OF THE STREAM BANKS AND SHALL SO CONDUCT HIS OPERATIONS AS NOT TO DAMAGE THE BANKS WITH HIS EQUIPMENT. NO BANK UPSTREAM OR DOWNSTREAM SHALL BE EXCAVATED EXCEPT AS APPROVED FOR AND AS SHOWN ON THE PLANS. NO WORK ROADS SHALL BE CONSTRUCTED UPSTREAM WHERE IT IS NECESSARY TO CUT THE STREAM OR RIVER BANKS EXCEPT BY THE APPROVAL OF THE ENGINEER. BANK CUTS FOR WORK ROADS SHALL BE LOCATED DOWNSTREAM AND REPLACED BY THE CONTRACTOR TO THEIR ORIGINAL SHAPE AND DENSITY. UNNECESSARY STRIPPING OF VEGETATION GROWTH ALONG BANKS IN THE CONSTRUCTION AREA IS NOT PERMITTED.

THE FOLLOWING ITEMS WILL BE THE RESPONSIBILITY OF THE COUNTY AND NOT A PART OF THIS CONTRACT:
 (1) ACQUISITION AND STAKING OF RIGHT-OF-WAY; (2) REMOVAL AND RELOCATION OF CATTLE GUARDS; (3) UTILITY RELOCATION; (4) DETOUR SIGNING, IF REQUIRED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION SIGNING.

ROADWAY SHALL BE CLOSED TO THROUGH TRAFFIC DURING THE CONSTRUCTION PERIOD. CONTRACTOR SHALL PROVIDE ACCESS TO LAND OWNERS AND TENANTS.

THE CONTRACTOR SHALL NOTIFY THE CANADIAN COUNTY BOARD OF COMMISSIONERS FOURTEEN CALENDAR DAYS PRIOR TO BEGINNING CONSTRUCTION.

IN ACCORDANCE WITH THE OKLAHOMA UNDERGROUND FACILITIES DAMAGE PREVENTION ACT THE CONTRACTOR SHALL NOTIFY THE OKLAHOMA ONE-CALL SYSTEM, INC. 48 HOURS PRIOR TO BEGINNING EXCAVATION. OKLAHOMA ONE-CALL SYSTEM, INC. CALL OKEY 1-800-522-6543 OR 811.

REV. NO.	DESCRIPTION	DATE

STORM WATER MANAGEMENT PLAN

DESCRIPTION	REVISIONS	DATE

SITE DESCRIPTION

EROSION AND SEDIMENT CONTROLS

PROJECT LIMITS: CONSTRUCTION OF MAPLE AVENUE BEGINNING APPROXIMATELY 520 FEET NORTH OF THE INTERSECTION OF 3RD EXTENDING NORTH 4,060 FEET, ENDING AT S. 59TH STREET, CITY OF UNION CITY, IN CANADIAN COUNTY, OK.

PROJECT DESCRIPTION: FULL DEPTH GRADING, DRAINING, SURFACING FOR 2-10' PAVED LANES AND 2' SHOULDERS.

SUGGESTED SEQUENCE OF EROSION CONTROL ACTIVITIES: PRIOR TO INITIATING SOIL DISTURBING ACTIVITIES, THE COUNTY WILL INSTALL ALL PERIMETER TEMPORARY SEDIMENT CONTROLS SPECIFIED. STRIP, STOCKPILE AND STABILIZE TOPSOIL. 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. REMOVE TEMPORARY SEDIMENT CONTROL DEVICES WHEN AN ACCEPTABLE VEGETATIVE COVER (AT LEAST 70%) HAS BEEN ATTAINED. AS SITE CONDITIONS WARRANT, THE COUNTY MAY CHOOSE TO MODIFY THE TYPE OR ARRANGEMENT OF SPECIFIED PRACTICES TO IMPROVE THEIR EFFECTIVENESS AS APPROVED BY THE ENGINEER. THE COUNTY WILL MAINTAIN A LOG OF THE DATES OF MAJOR SOIL DISTURBANCE ACTIVITIES, AND ALSO THE DATES OF INSTALLATION OF EROSION.

SOIL TYPE: SILT LOAM
 AREA TO BE DISTURBED: 322 AC.

OFFSITE AREA TO BE DISTURBED: _____
 (FOR COUNTY USE)
 MAXIMUM ACRES TO BE DISTURBED AT ANY ONE TIME: _____
 (FOR COUNTYS USE)

LATITUDE & LONGITUDE OF CENTER OF PROJECT: LATITUDE N35°24'02" LONGITUDE W97°56'45"
 NAME OF RECEIVING WATERS: UNNAMED TRIBUTARY OF ARAPAHOE CREEK AND CANADIAN RIVER.

SENSITIVE WATERS OR WATERSHEDS: YES NO
 303(d) IMPAIRED WATERS: YES NO

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.

SOIL STABILIZATION PRACTICES:

- _____ TEMPORARY SEEDING
- _____ X PERMANENT SODDING, SPRIGGING OR SEEDING
- _____ VEGETATIVE MULCHING
- _____ SOIL RETENTION BLANKET
- _____ X PRESERVATION OF EXISTING VEGETATION

NOTE: TEMPORARY EROSION CONTROL METHODS ARE TO BE USED ON ALL DISTURBED AREAS WHERE CONST. 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
- _____ X TEMPORARY SILT FENCE
- _____ X TEMPORARY SILT DIKES
- _____ TEMPORARY FIBER LOG
- _____ 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
- _____ X TEMPORARY SEDIMENT FILTERS
- _____ X TEMPORARY SEDIMENT REMOVAL
- _____ RIP RAP
- _____ INLET SEDIMENT FILTER
- _____ TEMPORARY BRUSH SEDIMENT BARRIERS
- _____ SANDBAG BERMES
- _____ TEMPORARY STREAM CROSSINGS

OFFSITE VEHICLE TRACKING:

- _____ X HAIL ROADS DAMPENER FOR DUST CONTROL
- _____ LOADED HAIL TRUCKS TO BE COVERED WITH TARP/AULIN
- _____ X EXCESS DIRT ON ROAD REMOVED DAILY

NOTES:

THE COUNTY SHALL ALSO BE RESPONSIBLE FOR THE FOLLOWING:

MAINTENANCE AND INSPECTION:

ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED IN GOOD WORKING ORDER FROM THE BEGINNING OF CONSTRUCTION UNTIL AN ACCEPTABLE VEGETATIVE COVER IS ESTABLISHED. INSPECTION BY THE COUNTY AND ANY NECESSARY REPAIRS SHALL BE PERFORMED ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCH AS RECORDED BY A NON-FREEZING RAIN GAUGE TO BE LOCATED ON SITE. POTENTIALLY ERODIBLE AREAS, DRAINAGEWAYS, MATERIAL STORAGE, STRUCTURAL DEVICES, CONSTRUCTION ENTRANCES AND EXITS ALONG WITH EROSION AND SEDIMENT CONTROL LOCATIONS ARE EXAMPLES OF SITES THAT NEED TO BE INSPECTED.

WASTE MATERIALS:

PROPER MANAGEMENT AND DISPOSAL OF CONSTRUCTION WASTE MATERIAL IS REQUIRED BY THE COUNTY. MATERIALS INCLUDE STOCKPILES, SURPLUS, DEBRIS AND ALL OTHER BY-PRODUCTS FROM THE CONSTRUCTION PROCESS. PRACTICES INCLUDE DISPOSAL, PROPER MATERIALS HANDLING, SPILL PREVENTION AND CLEANUP MEASURES. CONTROLS AND PRACTICES SHALL MEET THE REQUIREMENTS OF ALL FEDERAL, STATE AND LOCAL AGENCIES.

HAZARDOUS MATERIALS:

PROPER MANAGEMENT AND DISPOSAL OF HAZARDOUS WASTE MATERIALS IS REQUIRED. THE COUNTY IS RESPONSIBLE FOR FOLLOWING MANUFACTURER'S RECOMMENDATIONS, STATE AND FEDERAL REGULATIONS TO ENSURE CORRECT HANDLING, DISPOSAL, SPILL PREVENTION AND CLEANUP MEASURES. EXAMPLES INCLUDE BUT ARE NOT LIMITED TO: PAINTS, ACIDS, CLEANING SOLVENTS, CHEMICAL ADDITIVES, CONCRETE CURING COMPOUNDS AND CONTAMINATED SOILS.

GENERAL NOTES:

A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS REQUIRED TO COMPLY WITH THE OKLAHOMA POLLUTION DISCHARGE ELIMINATION SYSTEM (OPDES) REGULATIONS. THIS PLAN IS INITIATED DURING THE DESIGN PHASE, CONFIRMED IN THE PRE-WORK MEETINGS AND AVAILABLE ON THE JOB SITE ALONG WITH COPIES OF THE NOTICE OF INTENT (NOI) FORM AND PERMIT CERTIFICATE THAT HAVE BEEN FILED WITH THE OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY (ODEQ). THE PLAN MUST BE KEPT CURRENT WITH UP-TO-DATE AMENDMENTS DURING THE PROGRESSION OF THE PROJECT. ALL COUNTY OFF-SITE OPERATIONS ASSOCIATED WITH THE PROJECT MUST BE DOCUMENTED IN THE SWPPP, I.E., BORROW PITS, WORK ROADS, DISPOSAL SITES, ASPHALT/CONCRETE PLANTS, ETC. THE BASIC GOAL OF STORM WATER MANAGEMENT IS TO IMPROVE WATER QUALITY BY REDUCING POLLUTANTS IN STORM WATER DISCHARGES. RUNOFF FROM CONSTRUCTION SITES HAS A POTENTIAL FOR POLLUTION DUE TO EXPOSED SOILS AND 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 BEST PRACTICES FOR CONTROLLING STORM WATER POLLUTION.

THE FOLLOWING SECTIONS OF THE 2009 ODOT STANDARD SPECIFICATIONS SHOULD BE NOTED:

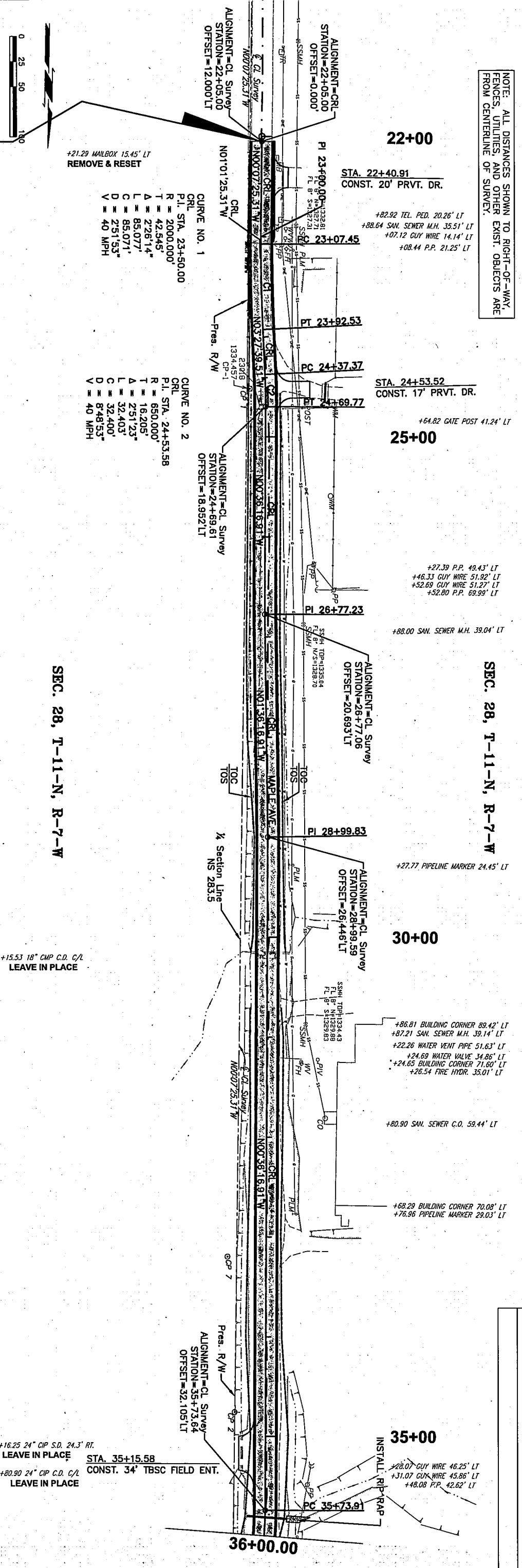
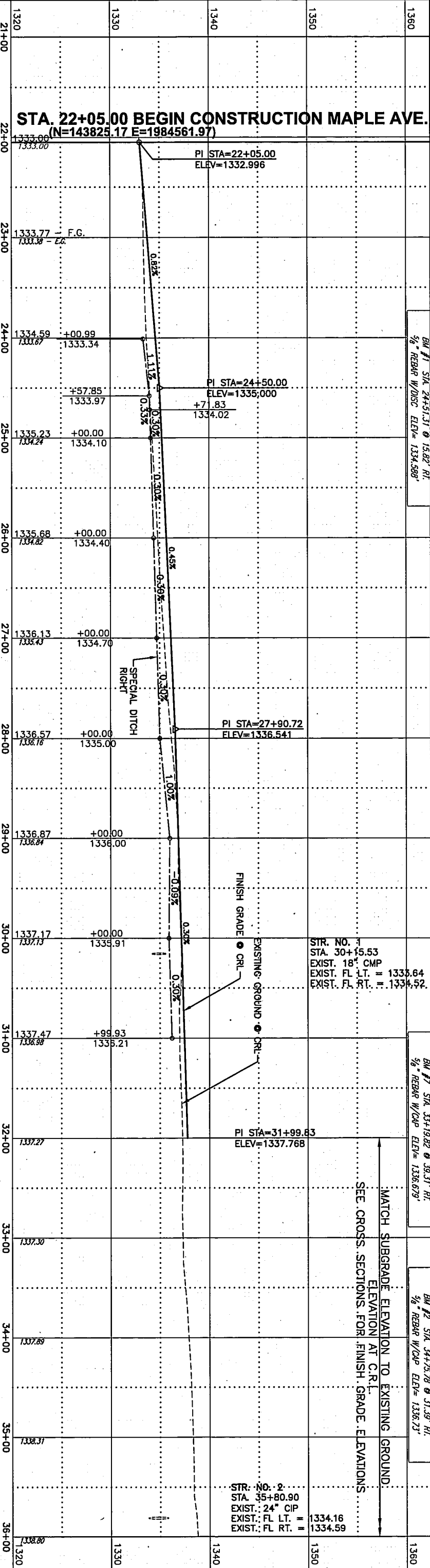
- 103.05 BONDING REQUIREMENTS
- 104.10 FINAL CLEANING UP
- 104.12 COUNTY'S RESPONSIBILITY FOR WORK
- 104.13 ENVIRONMENTAL PROTECTION
- 106.08 STORAGE AND HANDLING OF MATERIAL
- 107.01 LAWS, RULES AND REGULATIONS TO BE OBSERVED
- 107.20 STORM WATER MANAGEMENT
- 220 MANAGEMENT OF EROSION, SEDIMENTATION AND STORM WATER POLLUTION PREVENTION AND CONTROL
- 221 TEMPORARY SEDIMENT CONTROL

IN ADDITION:

"ODEQ GENERAL PERMIT (OKR10) FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES WITHIN THE STATE OF OKLAHOMA." ODEQ, WATER QUALITY DIVISION, SEPTEMBER 13, 2012.

DESIGN	DLP	MAPLE AVE.	CANADIAN COUNTY
DRAWN	WNU	STORM WATER MANAGEMENT PLAN	
CHECKED	DLP		
MKEC	ENG.	JOB PIECE NO. _____	SHEET NO. 4

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM CENTERLINE OF SURVEY.



SEC. 28, T-11-N, R-7-W

SEC. 28, T-11-N, R-7-W

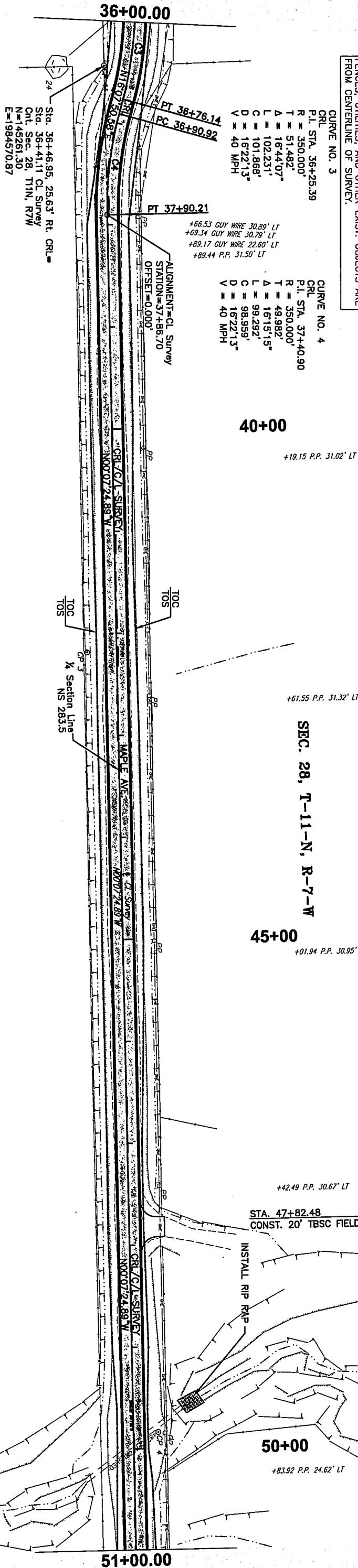
JOB PIECE NO. _____ Sheet No. 5

DESCRIPTION	REVISIONS	DATE

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM CENTERLINE OF SURVEY.

CURVE NO. 3
 CRL STA. 36+25.39
 P.I. STA. 36+00.00
 R = 350.000'
 T = 51.482'
 Δ = 16°44'07"
 L = 102.231'
 C = 101.868'
 D = 16'22.13"
 V = 40 MPH

CURVE NO. 4
 CRL STA. 37+40.90
 P.I. STA. 37+40.90
 R = 350.000'
 T = 49.982'
 Δ = 16°15'15"
 L = 99.292'
 C = 98.959'
 D = 16'22.13"
 V = 40 MPH



SEC. 28, T-11-N, R-7-W

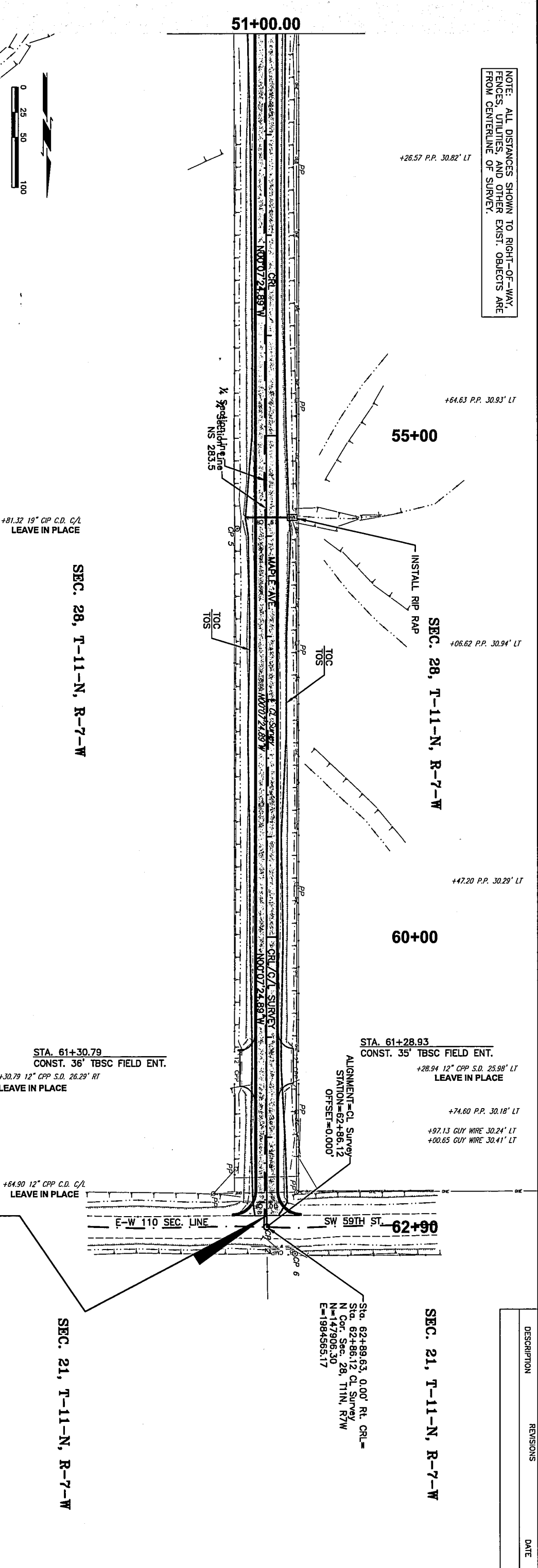
MATCH SUBGRADE ELEVATION TO EXISTING GROUND ELEVATION AT C.R.L.
 SEE CROSS SECTIONS FOR FINISH GRADE ELEVATIONS

Station	Elevation	Notes
36+00	1338.60	
37+00	1339.01 - E.S.	
38+00	1338.97	
39+00	1339.30	BM #11 STA. 36+41.11 @ 23.03 RI. 3/4" REBAR W/CAP ELEV= 1336.893'
40+00	1339.47	
41+00	1339.54	BM #3 STA. 42+18.11 @ 29.55 RI. 3/4" REBAR W/CAP ELEV= 1337.679'
42+00	1339.60	
43+00	1339.80	
44+00	1339.91	
45+00	1340.39	
46+00	1340.35	
47+00	1339.58	
48+00	1338.18	BM #4 STA. 49+84.98 @ 31.77 LI. 3/4" REBAR W/CAP ELEV= 1334.69'
49+00	1336.75	
50+00	1336.55	STR. NO. 3 STA. 49+95.32 EXIST. 48" HDPE EXIST. FL LT. = 1323.92 EXIST. FL RT. = 1326.30
51+00	1336.02	

DESCRIPTION	REVISIONS	DATE

NOTE: ALL DISTANCES SHOWN TO RIGHT-OF-WAY, FENCES, UTILITIES, AND OTHER EXIST. OBJECTS ARE FROM CENTERLINE OF SURVEY.

51+00	1330.92				1350
52+00	1338.23 - EA				1350
53+00	1339.35				1350
54+00	1340.25				1350
55+00	1340.80				1350
56+00	1341.23				1350
57+00	1341.41				1350
58+00	1342.04				1350
59+00	1342.72				1350
60+00	1343.38				1350
61+00	1344.19				1350
62+00	1344.77				1350
63+00	1345.09				1350
64+00					1350
65+00					1350
66+00					1350



BM #5 STA. 55+89.04 @ 29.51' RT.
1/8" REBAR W/CAP ELEV= 1339.09'

BM #12 STA. 62+86.12 @ 0.00' RT.
1/2" REBAR ELEV= 1344.578'

BM #6 STA. 63+12.90 @ 28.62' LT.
5/8" REBAR W/DISC ELEV= 1344.38'

STR. NO. 4
STA. 55+77.80
EXIST. 19" CIP
EXIST. FL LT. = 1336.50
EXIST. FL RT. = 1338.27

MATCH SUBGRADE ELEVATION TO EXISTING GROUND ELEVATION AT C.R.L.
SEE CROSS SECTIONS FOR FINISH GRADE ELEVATIONS

EXISTING GROUND @ CRL

SEC. 28, T-11-N, R-7-W

SEC. 21, T-11-N, R-7-W

SEC. 28, T-11-N, R-7-W

SEC. 21, T-11-N, R-7-W

+81.32 19" CIP C.D. C/L
LEAVE IN PLACE

STA. 61+30.79
CONST. 36' TBSC FIELD ENT.
+30.79 12" CPP S.D. 26.29' RT
LEAVE IN PLACE

+64.90 12" CPP C.D. C/L
LEAVE IN PLACE

STA. 62+64.90
EXIST. 10" CIP
EXIST. FL LT. = 1342.17
EXIST. FL RT. = 1342.00

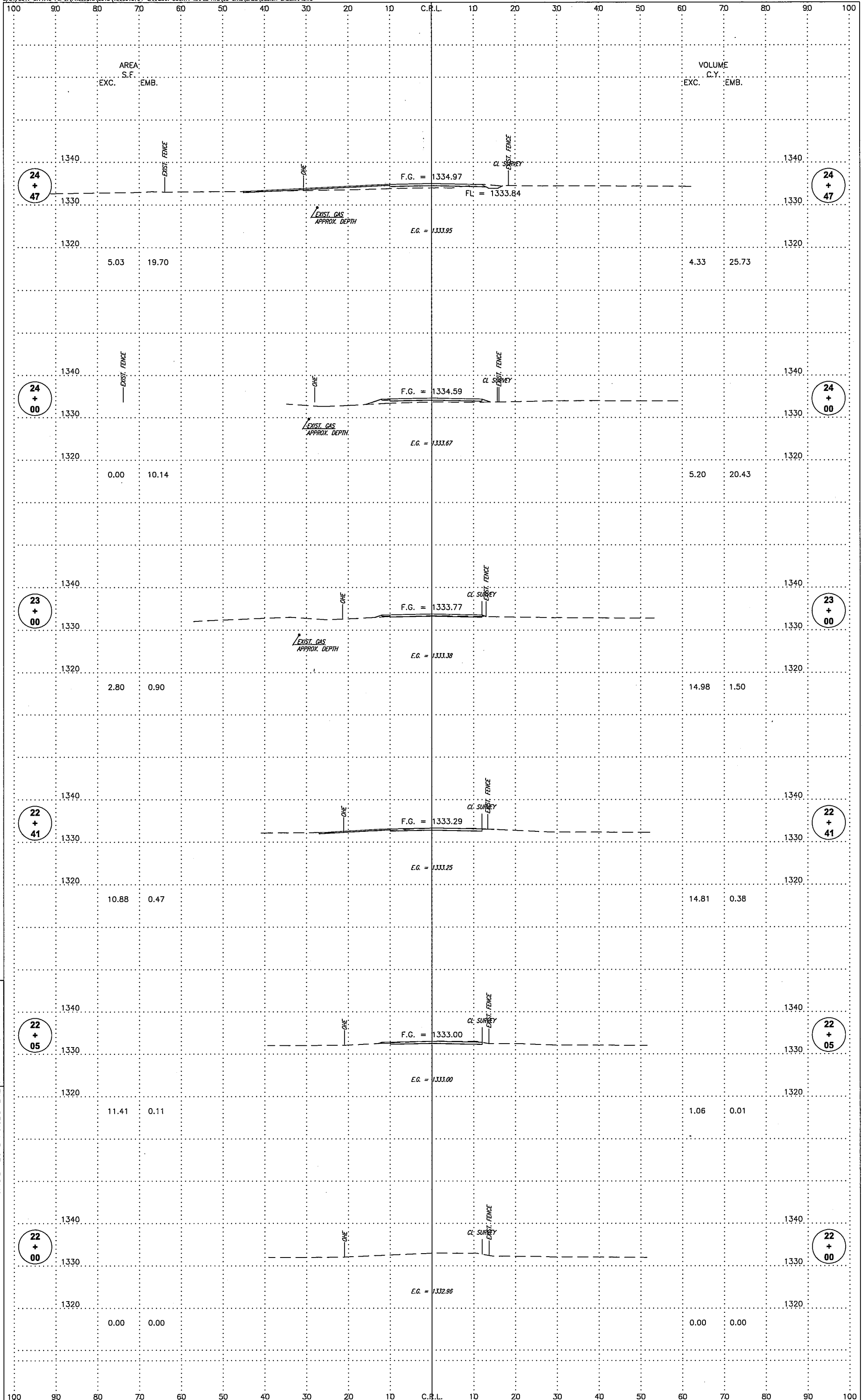
+78.40

(N=147895.07 E=1984565.19)
STA. 62+78.40 END CONSTRUCTION MAPLE AVE.

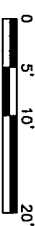
STA. 61+28.93
CONST. 35' TBSC FIELD ENT.
+28.94 12" CPP S.D. 25.98' LT
LEAVE IN PLACE
+74.60 P.P. 30.18' LT
+97.13 GUY WIRE 30.24' LT
+00.65 GUY WIRE 30.41' LT

Sta. 62+89.63, 0.00' Rt. CRL=
Sta. 62+86.12 CL Survey
N Cor. Sec. 28, T11N, R7W
N=147906.30
E=1984565.17

DESCRIPTION	REVISIONS	DATE

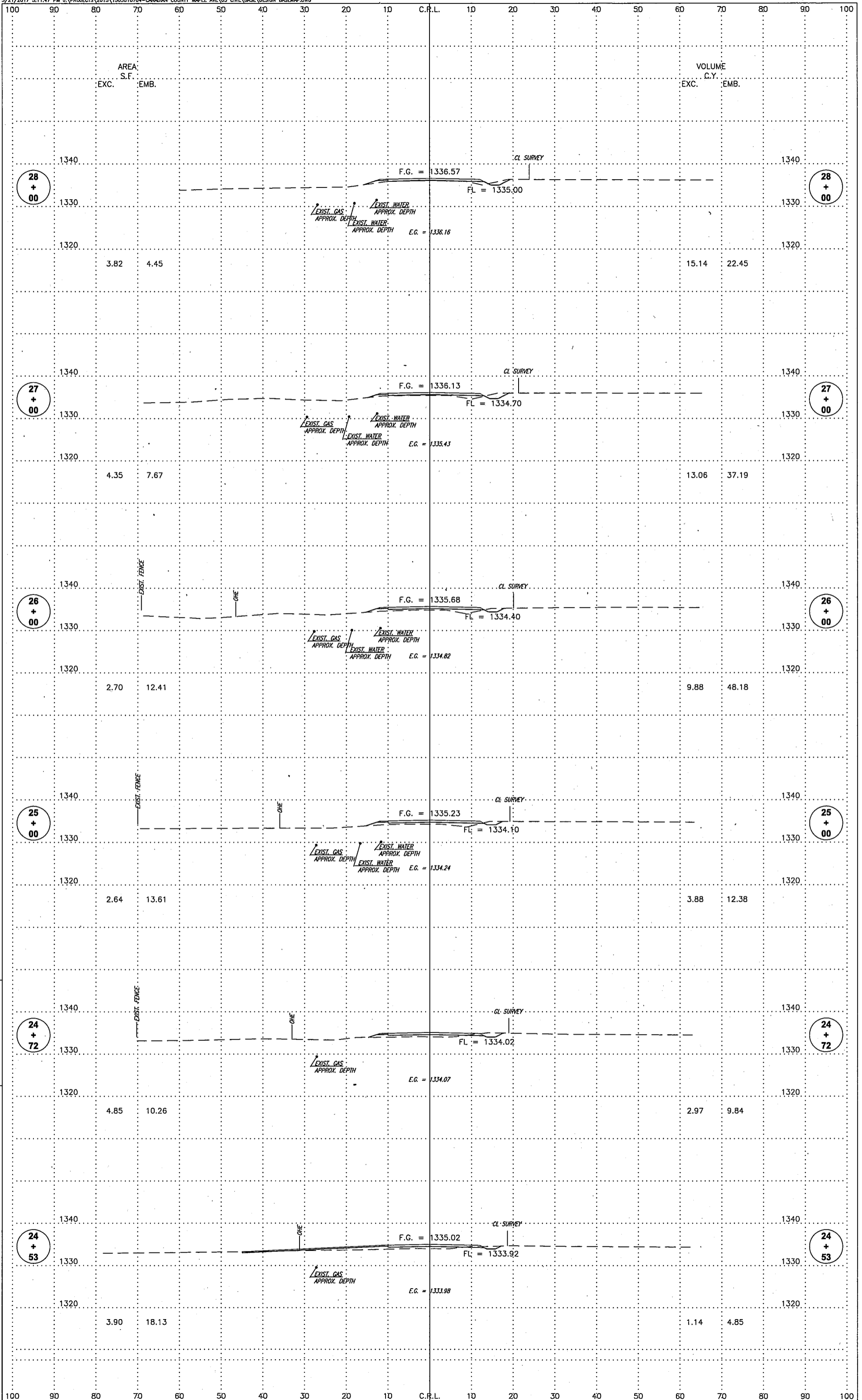


MAPLE AVE.



FILE: DESIGN BASEMAP.DWG
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SHEET NO. XI



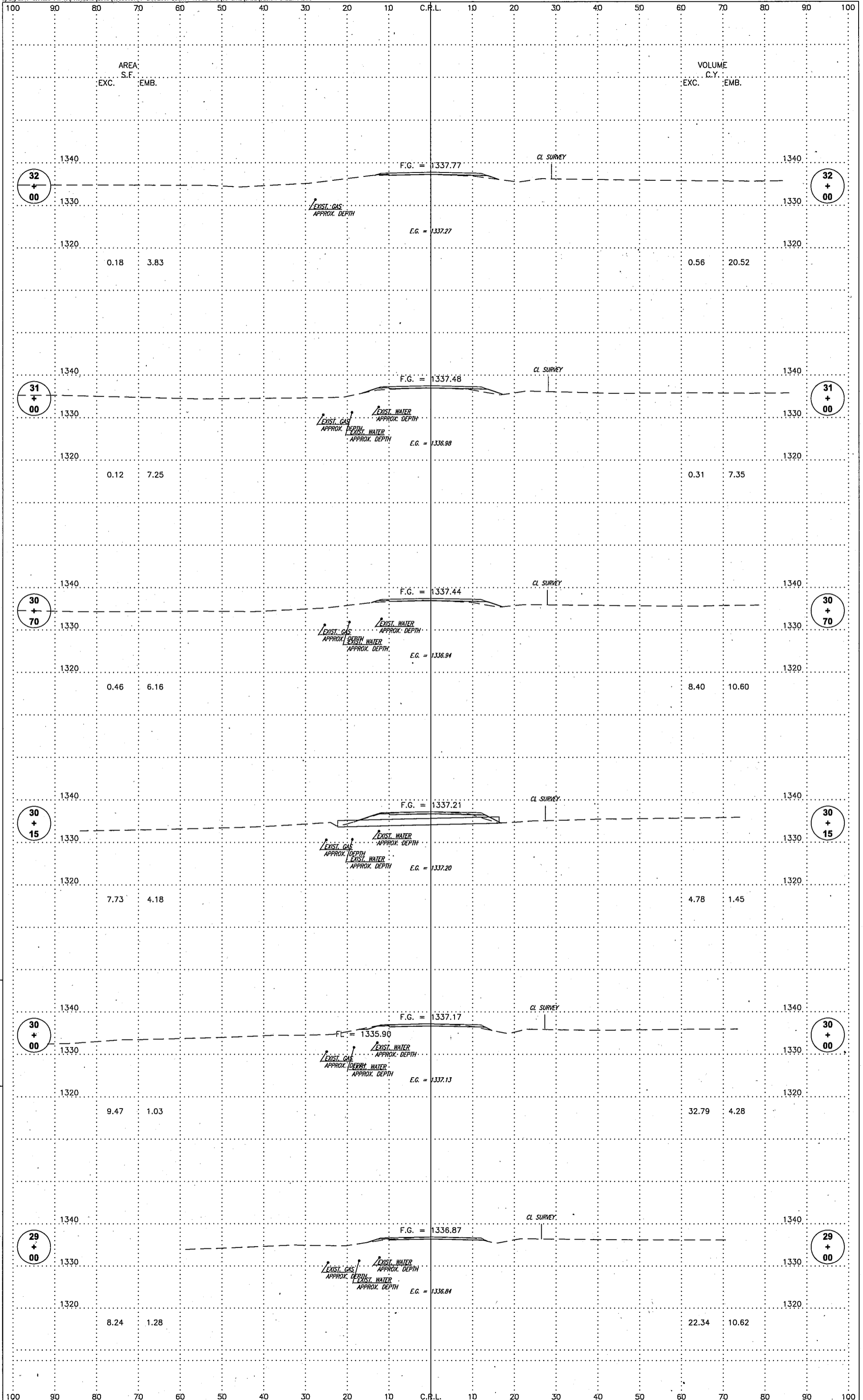
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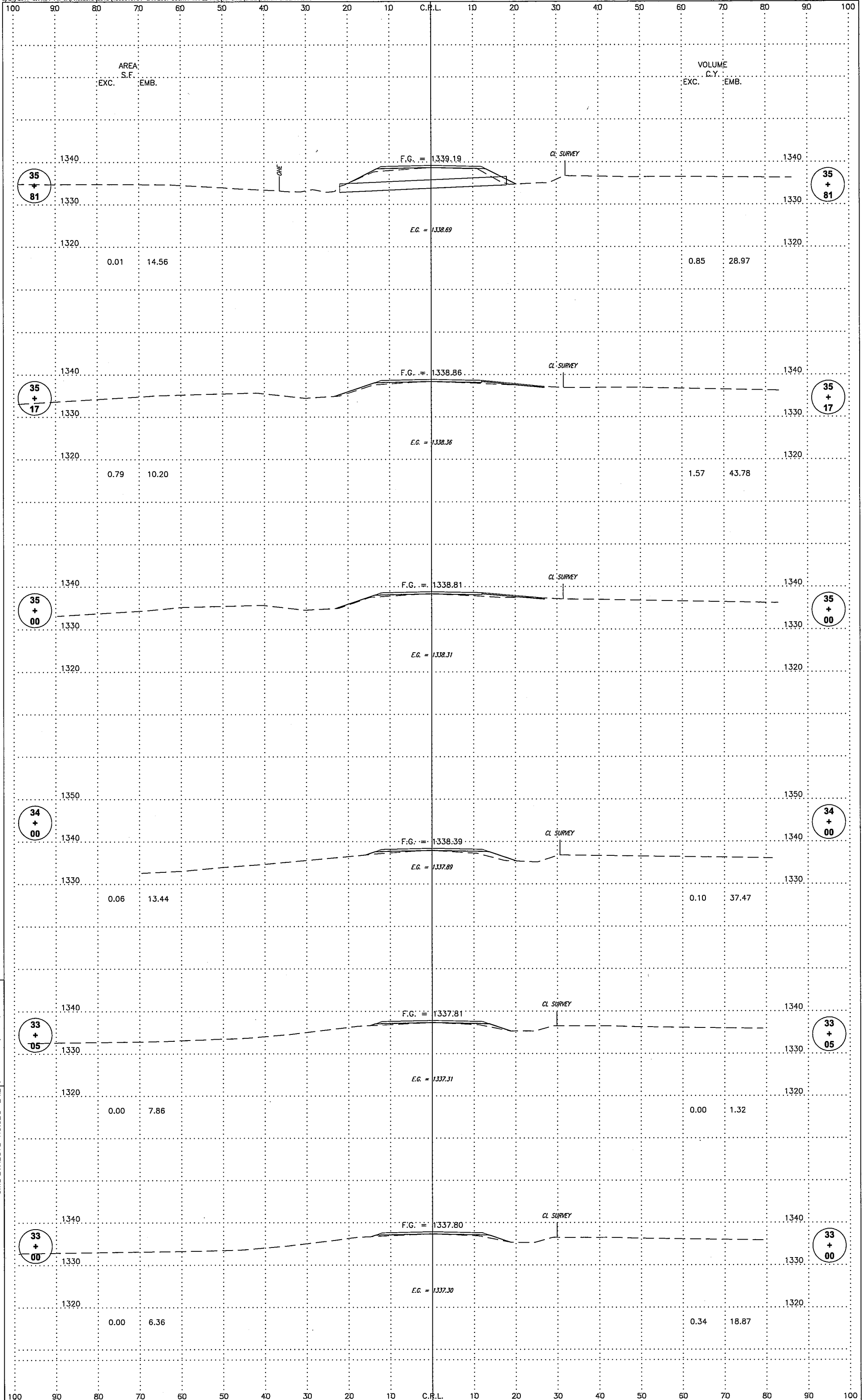


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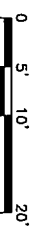


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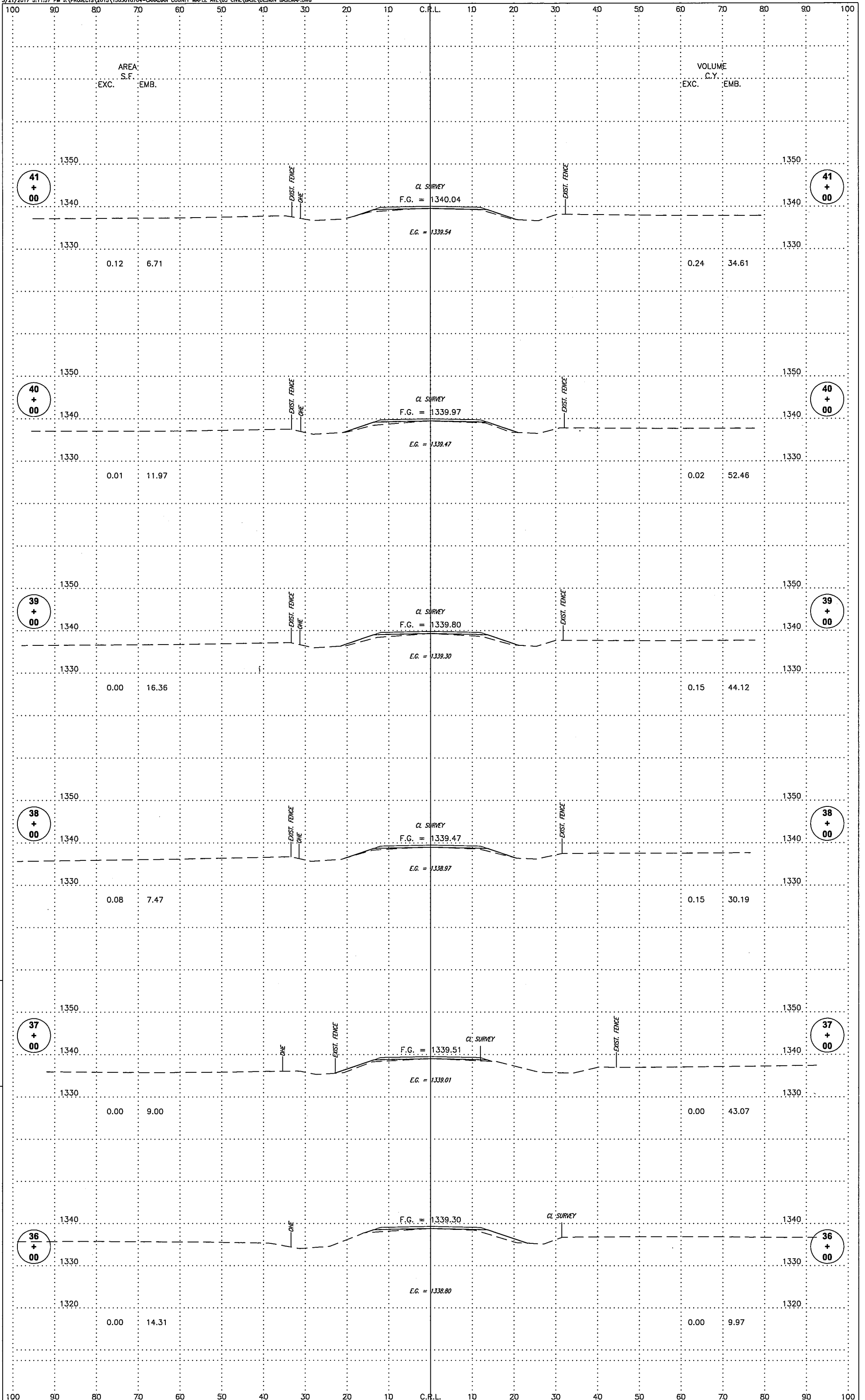
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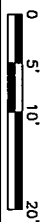
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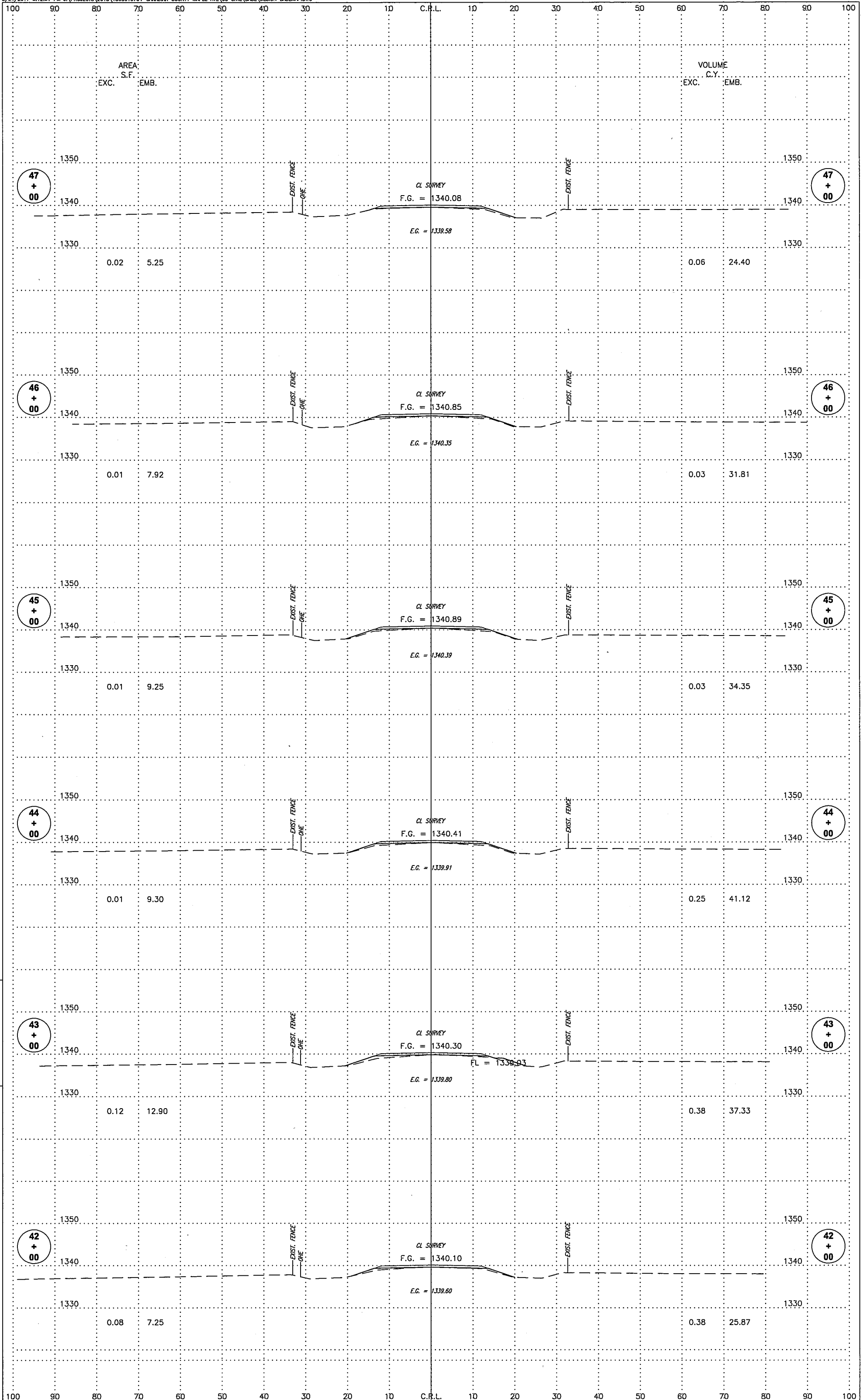


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SHEET NO. XS

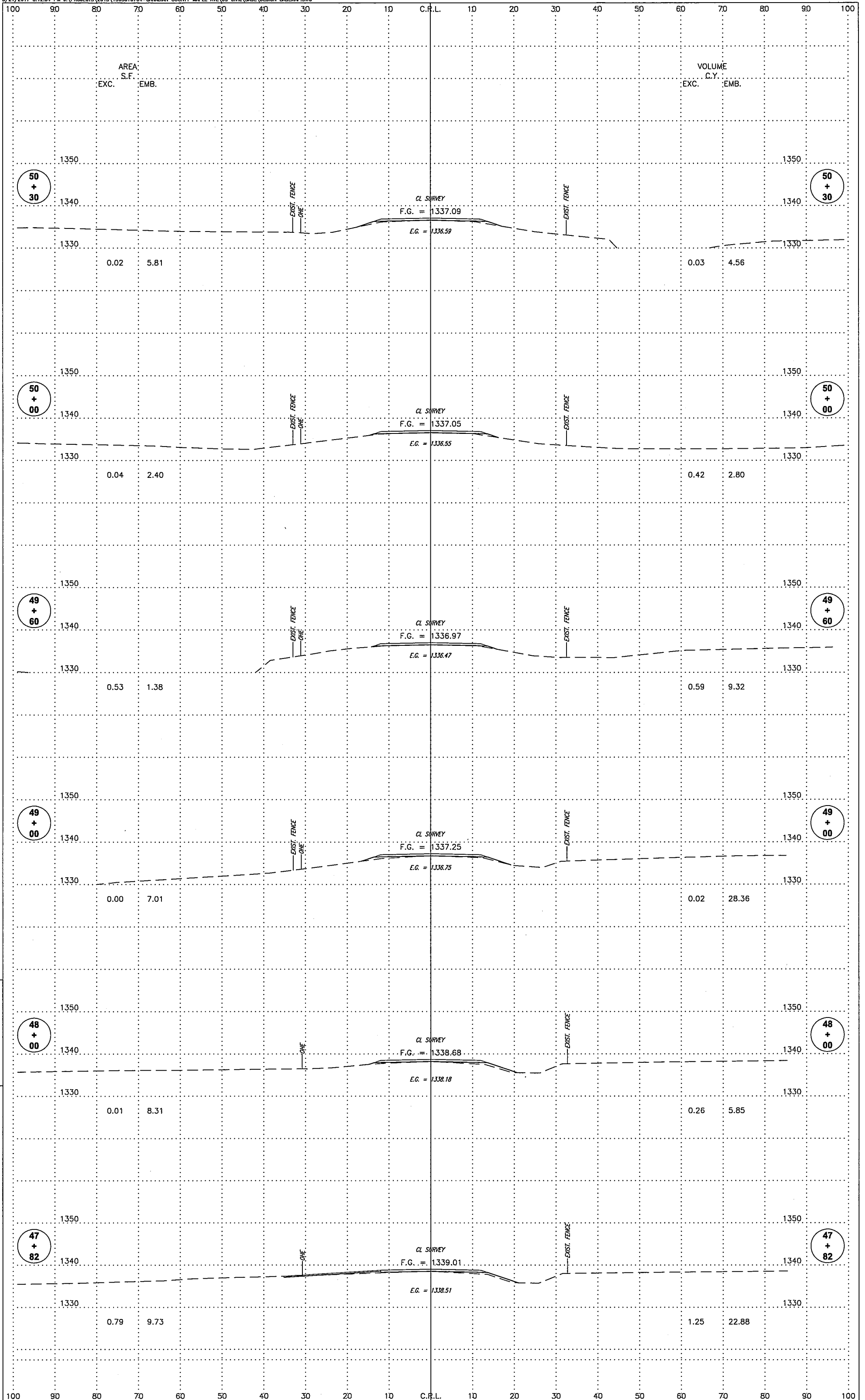


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SHEET NO. X6



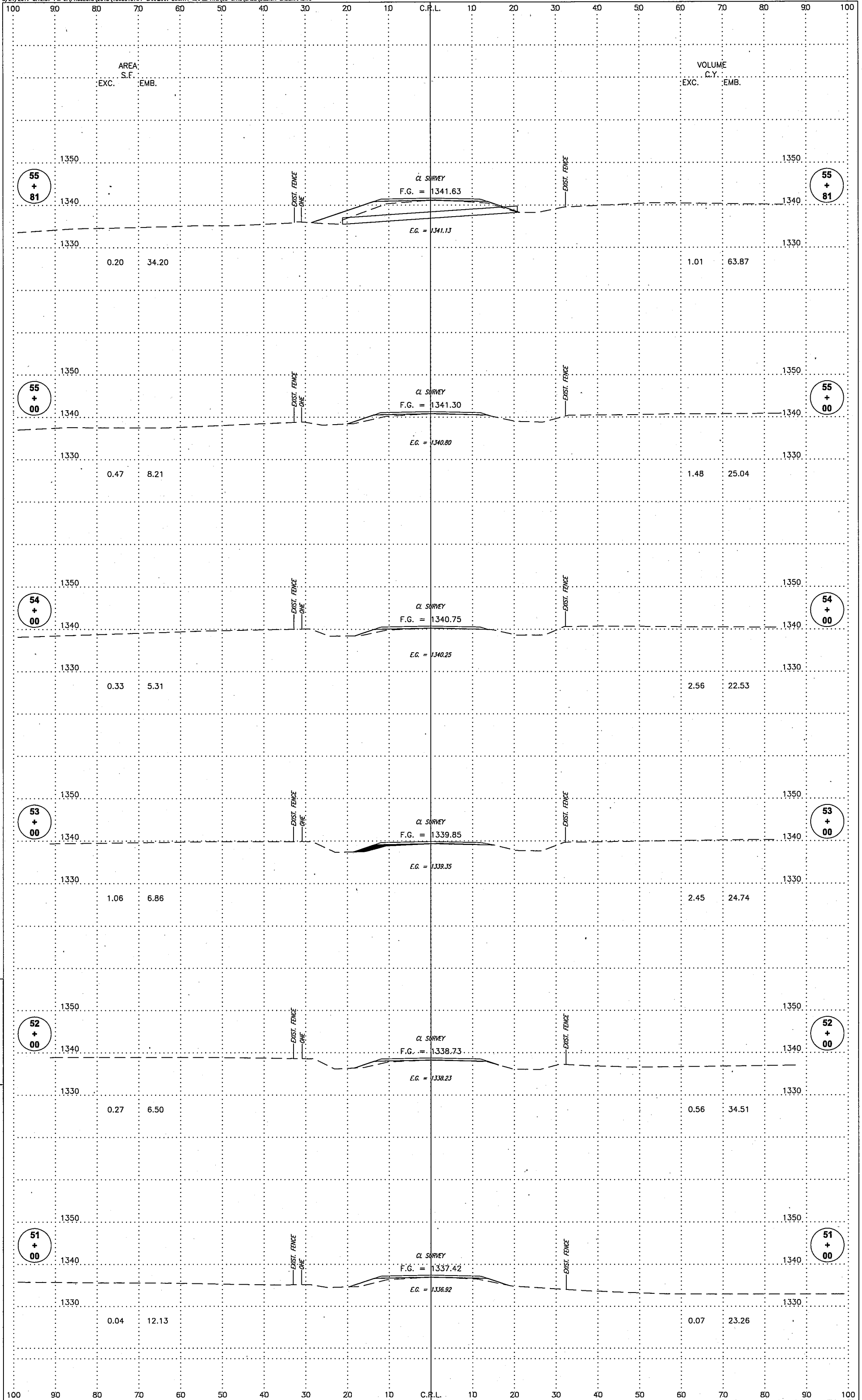
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0 5' 10' 20'

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DATE: 00/00/00

STATE JOB PIECE NO.

SHEET NO. X7



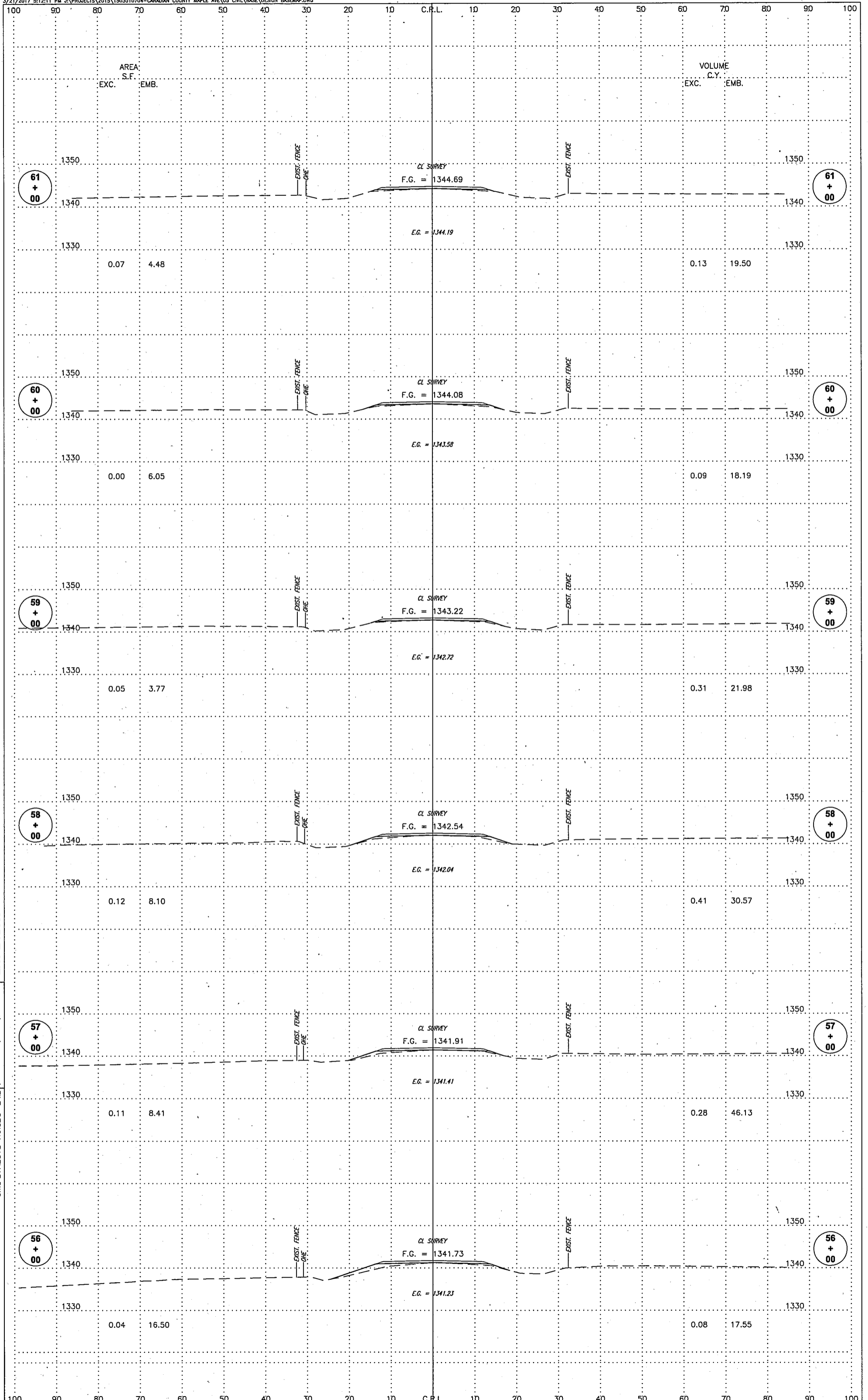
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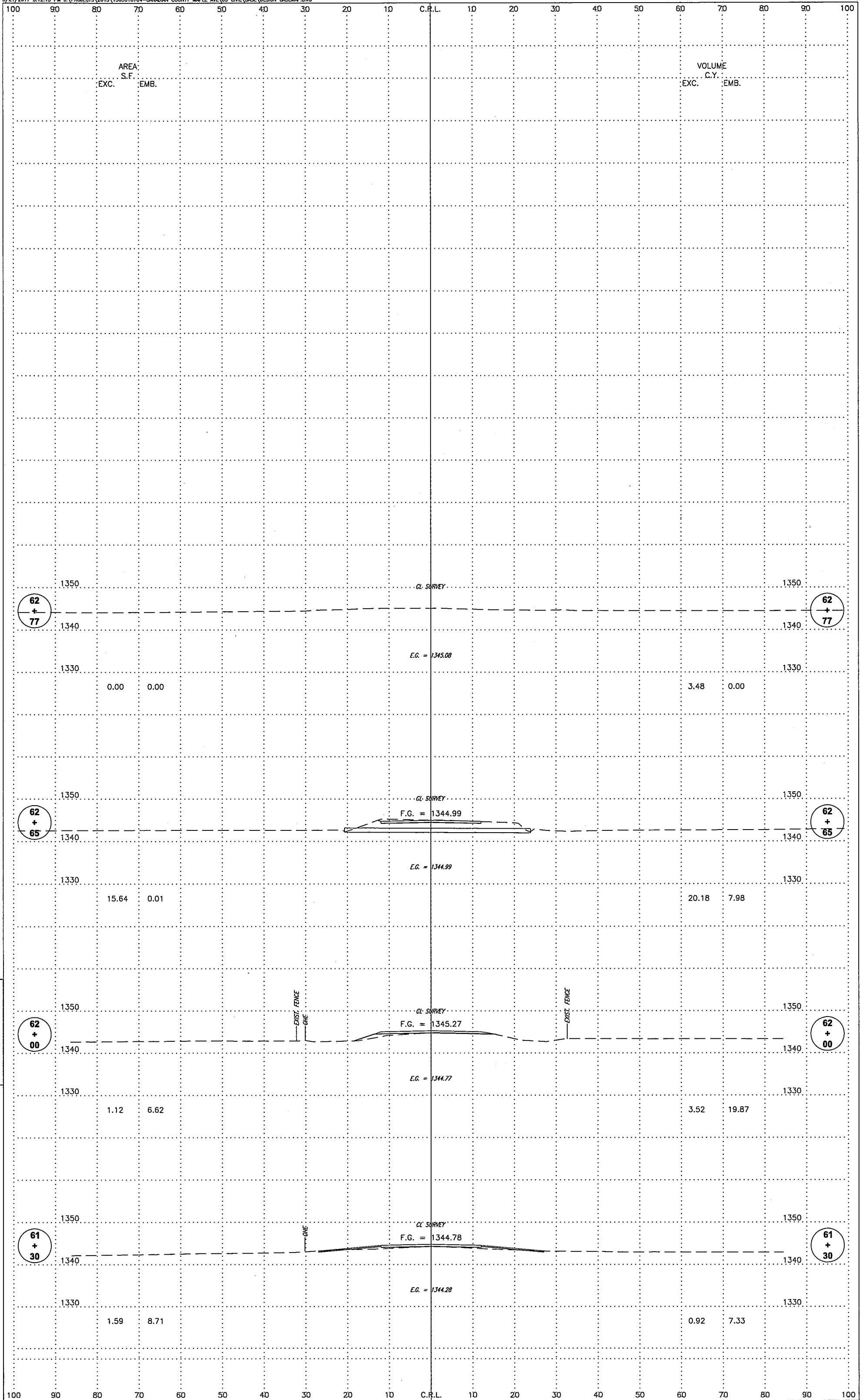
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STATE JOB PIECE NO.

SHEET NO. XB



MAPLE AVE.
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 FILE: DESIGN BASEMAP.DWG
 DATE: 00/00/00
 STATE JOB PIECE NO. _____
 SHEET NO. X9



MAPLE AVE.

0 5' 10' 20'

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SHEET NO. X10