



# Illinois Department of Transportation

Division of Aeronautics

1 Langhorne Bond Drive / Capital Airport / Springfield, Illinois / 62707-8415

June 3, 2016

SUBJECT: DuPage Airport  
West Chicago, Illinois  
DuPage County  
Illinois Project Number: DPA-4300  
SBG Project Number: 3-17-SBGP-XX  
Contract No. DU081  
Item No. 05A, 6-10-2016 Letting  
Addendum A

## NOTICE TO PROSPECTIVE BIDDERS

Attached is an addendum to the plans or proposal. This addendum involves revised and/or added material.

### Reason for Addendum:

1. Revised Section 40-05 of General Provisions
2. Revised Item 152 of the Special Provisions
3. Revised Item 15600 of the Special Provisions
4. Revised Item 208515 of the Special Provisions
5. Revised Item 209 of the Special Provisions
6. Revised Item 401610 of the Special Provisions
7. Revised Item 751 of the Special Provisions
8. Revised Item 752 of the Special Provisions
9. Revised Item 754 of the Special Provisions
10. Revised Sheet G-001 of the Plans
11. Revised Sheet G-002 of the Plans
12. Revised Sheet CS-101 of the Plans
13. Revised Sheet CS-102 of the Plans
14. Revised Sheet CS-103 of the Plans
15. Revised Sheet CS-104 of the Plans
16. Revised Sheet CG-101 of the Plans
17. Revised Sheet CG-102 of the Plans
18. Revised Sheet CG-103 of the Plans
19. Revised Sheet CU-101 of the Plans
20. Revised Sheet CU-102 of the Plans
21. Revised Sheet CU-103 of the Plans
22. Revised Sheet CU-202 of the Plans
23. Revised Sheet CU-204 of the Plans
24. Revised Sheet X-101 of the Plans
25. Revised Sheet X-102 of the Plans
26. Revised Sheet X-103 of the Plans
27. Revised Sheet X-104 of the Plans
28. Revised Sheet X-105 of the Plans
29. Revised Schedule of Prices

To All Plan Holders:

1. Section 40-05: Revise Unicom frequency to 122.95 MHz.

2. Item 152 Excavation and Embankment:

ADD:

152-1.3 Coarse aggregate gradation shall meet IDOT CA-7 and IDOT CA-16. Fine aggregate shall meet IDOT FA-2. Aggregate shall meet requirements of the Illinois Urban Manual Material Specification 521 Aggregates for Drainfill and Filters. Geotextile fabric shall meet requirements of the Illinois Urban Manual Material Specification 592 Geotextile, Table 1, Class 1, with an apparent opening of 0.5 mm.

ADD:

152-2.21 Trench walls shall be lined with the Geotextile fabric specified in these provisions. Fill material shall be in accordance with the Illinois Urban Manual Material Specification 24 Drainfill, Material Method 1, and Class III Compaction. The layer of CA-16 shall be capped with a Geotextile fabric, and 6" of topsoil shall be placed over the infiltration trench.

3. Item 156000:

DESCRIPTION

156-1.1

ADD:

This item shall include a temporary construction entrance at the location specified in the drawings.

MATERIALS

156-2.8 The temporary construction entrance shall be constructed with CA-1 or other 2" – 3" gravel as accepted by the Engineer, placed on non-woven geotextile fabric.

CONSTRUCTION METHODS

156-3.2

ADD:

F. Construction Entrance. The locations and dimensions of the installation of construction entrances shall be as depicted in the drawings, as specified by the Engineer or at any entrance gate used by the contractor that is not adjacent to pavement.

METHOD OF MEASUREMENT

156-4.6 Construction entrances shall be paid for on a lump sum basis for all completed installations accepted by the Engineer.

4. Item 208-1.1: Revise last sentence to read "Porous Granular Embankment shall be considered incidental to Item AR152520 Undercut."
5. Item 209-5.1: Remove Pay Item AR209608 – Crushed Agg. Base Course – 8" per square yard.

6. Item 401610, 401-6.1: Remove Pay Item 401900 – Remove Bituminous Pavement per square yard.
7. Item 751-5.1: Add Pay Item AR803062 – 48" Dia. Catch Basin w/ 18R Snout & Bioskirt per each.
8. Item 752-5.1:
  - Change Pay Item AR800147 number to AR803063
  - Change Pay Item AR800874 number to AR803064
  - Add Pay Item AR803061 – Core & Connect to Existing Box Culvert per each.
9. Item 754-5.1:
  - Change Pay Item AR754410 description to Comb Concrete Curb & gutter.
  - Change Pay Item AR754904 description to Remove Comb Curb & Gutter.
10. G-002
  - Revised summary of quantities and updated index to reflect additional sheet.
11. CS-101
  - Additional dimension provided to clarify layout of FAA Cable. Splice box detail callout and coordinates provided.
12. CS-102, CS-103, CS-104
  - Revised plan and profile to reflect additional storm sewer
13. CG-101
  - Updated FAA cable and splice box location. Addition of soil borings and topsoil thickness.
14. CG-102 and CG-103
  - Addition of soil borings and topsoil thickness.
15. CU-101, CU-102 and CU-103
  - Additional storm sewer structures shown and removed seed mix specifications and CU-202 has additional Gravel Construction Access Detail information
16. CU-202 and CU-204
  - Revision of storm sewer details
17. X-101, X-102, X-103, X-104, and X-105
  - Addition of cut and fill areas and volumes to plan sheets

Prime contractors must utilize the enclosed material when preparing their bid and must include any Schedule of Prices changes in their bidding proposal.

Bidders using computer-generated bids are cautioned to reflect any and all Schedule of Prices changes, if involved, into their computer programs.

Questions on this addendum may be directed to Brian Quinlan at 312-572-8127.

05A  
6-10-2016 LETTING

DU081  
TOTAL SHEETS: 37

# DUPAGE AIRPORT AUTHORITY

## CONSTRUCT WEST END PERIMETER ROADWAY



APRIL 2016

BURNS & MCDONNELL  
PROJECT: 88849

IL PROJECT NO. DPA-4300  
SBG PROJECT NO. 3-17-SBGP-XX

DUPAGE AIRPORT	
TOWNSHIP: 40 NORTH	WAYNE TOWNSHIP
RANGE: 9 EAST	(SECTIONS: 29,30,31,32)
DUPAGE COUNTY	

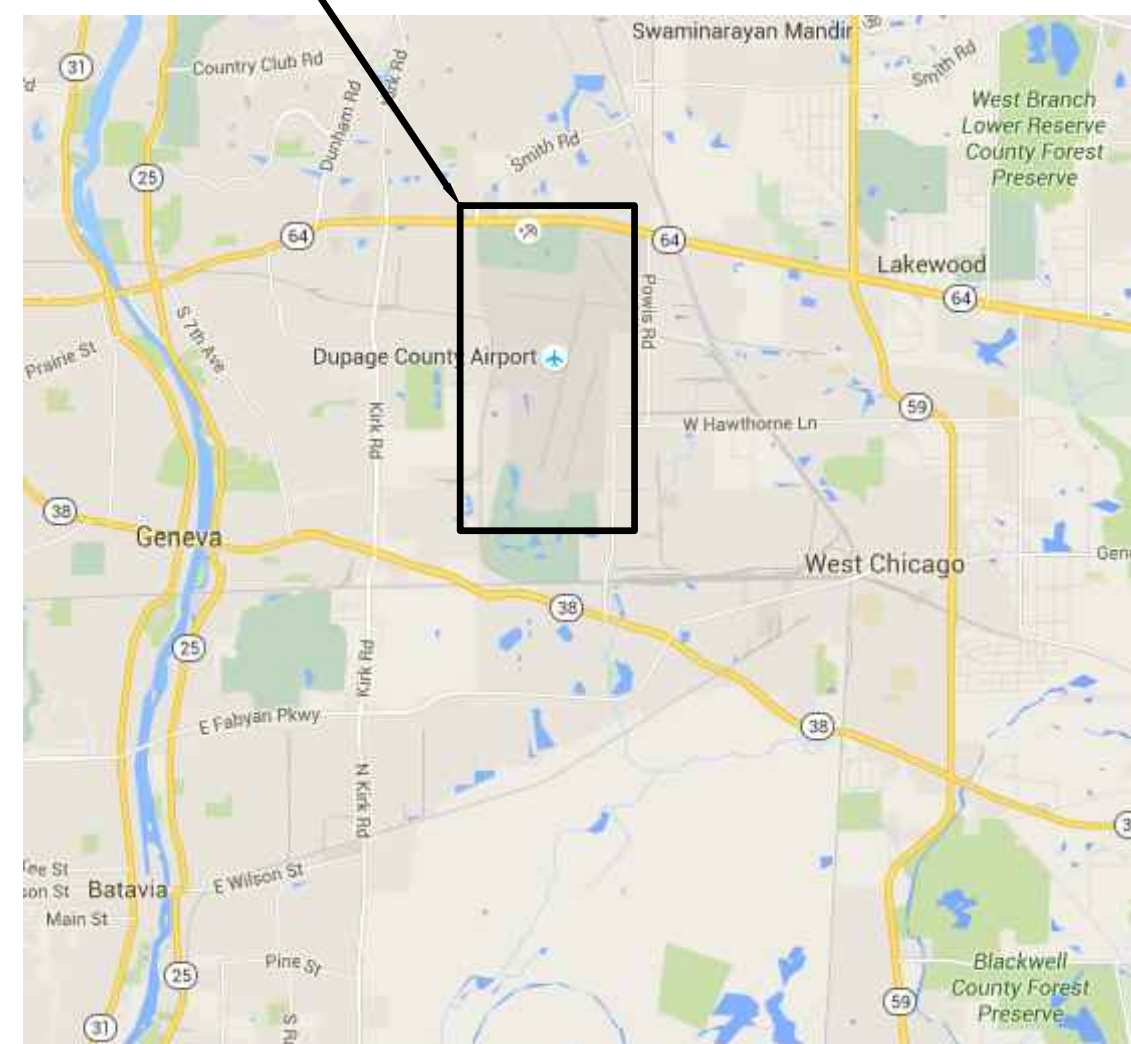
**811** Know what's below.  
Call before you dig.

J.U.L.I.E.  
JOINT UTILITY LOCATING  
INFORMATION FOR EXCAVATORS  
www.illinois1call.com

THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ACTUAL LOCATIONS OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES OF HIS OPERATIONAL PLANS, OBTAIN FROM RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION AND THE ONE-CALL NOTICE SYSTEM. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY SUCH UTILITY OR SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

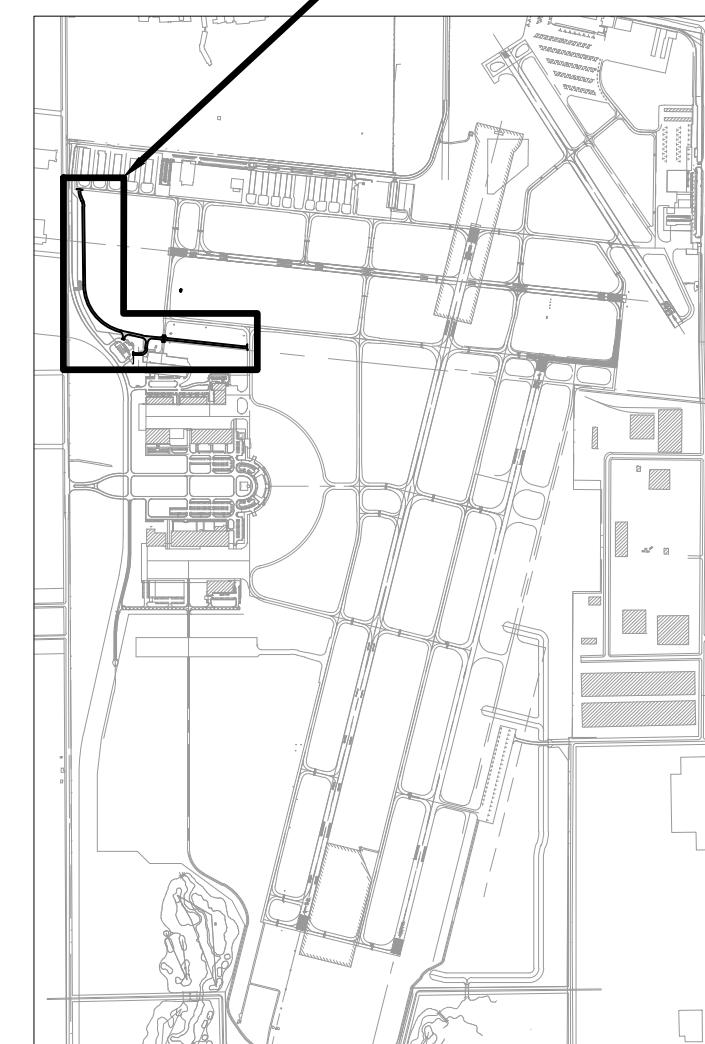
CALL J.U.L.I.E. FOR UTILITY INFORMATION AT 811.

PROJECT LOCATION



LOCATION MAP

PROJECT LOCATION



SITE MAP

**BURNS & MCDONNELL**

BURNS & MCDONNELL  
1431 OPUS PLACE  
SUITE 400  
DOWNERS GROVE, IL 60515  
PHONE (630) 724-3200  
FAX (630) 724-3201

**BRIAN J. QUINLAN**  
062-056758  
REGISTERED  
PROFESSIONAL  
ENGINEER  
OF  
ILLINOIS

SUBMITTED BY *B. Bird* EXP. 11/30/17  
DATE 4/15/16

**DPA**

DuPage Airport  
2700 INTERNATIONAL DRIVE  
SUITE 200  
WEST CHICAGO, IL 60185

APPROVED BY *David Bird*  
DAVID BIRD - EXECUTIVE DIRECTOR  
DATE April 18, 2016

no.	date	by	ckd	description
A	03/18/16	AB	BQ	ISSUED FOR 80% REVIEW
B	04/15/16	AB	BQ	ISSUED FOR BID
C	06/01/16	AB	BQ	ISSUED FOR ADDENDUM NO. 1



1431 OPUS PLACE, SUITE 400  
DOWNERS GROVE, IL 60515  
630-724-3200  
ILLINOIS FIRM REGISTRATION NO. 184-001310

**PROJECT ADDRESS:**  
**2700 INTERNATIONAL DRIVE #200**  
**WEST CHICAGO, IL 60185**

no.	date	by	ckd	description
A	03/18/16	AB	BQ	ISSUED FOR 80% REVIEW
B	04/15/16	AB	BQ	ISSUED FOR BID
C	06/01/16	AB	BQ	ISSUED FOR ADDENDUM NO. 1

INDEX OF DRAWINGS	
G-001	COVER SHEET
G-002	INDEX OF DRAWINGS AND SUMMARY OF QUANTITIES
G-003	CONTRACTOR ACCESS AND SAFETY NOTES
G-004	CONTRACTOR ACCESS AND SAFETY PLAN
G-005	CONTRACTOR ACCESS AND SAFETY PLAN
CD-101	DEMOLITION PLAN
CD-102	DEMOLITION PLAN
CD-103	DEMOLITION PLAN
CS-100	ROADWAY ALIGNMENT AND KEY PLAN
CS-101	ROADWAY PLAN AND PROFILE STA. 10+00.00 TO STA. 20+00.00
CS-102	ROADWAY PLAN AND PROFILE STA. 20+00.00 TO STA. 30+00.00
CS-103	ROADWAY PLAN AND PROFILE STA. 30+00.00 TO STA. 39+93.06
CS-104	ENLARGED SITE PLAN
CS-105	ACCESS DRIVE PROFILES
C-100	TYPICAL SECTIONS
C-101	CIVIL DETAILS
CG-101	GRADING PLAN
CG-102	GRADING PLAN
CG-103	GRADING PLAN
CU-101	DRAINAGE, SOIL EROSION SEDIMENT CONTROL PLAN
CU-102	DRAINAGE, SOIL EROSION SEDIMENT CONTROL PLAN
CU-103	DRAINAGE, SOIL EROSION SEDIMENT CONTROL PLAN
CU-201	DRAINAGE DETAILS
CU-202	DRAINAGE, SOIL EROSION SEDIMENT CONTROL DETAILS
CU-203	DRAINAGE, SOIL EROSION SEDIMENT CONTROL DETAILS
CU-204	DRAINAGE, SOIL EROSION SEDIMENT CONTROL DETAILS
CP-101	PAVEMENT MARKING AND SIGNAGE PLAN
CP-102	PAVEMENT MARKING AND SIGNAGE PLAN
CP-103	PAVEMENT MARKING AND SIGNAGE PLAN
CP-104	NON-MOVEMENT BOUNDARY MARKING PLAN
CP-201	PAVEMENT MARKING DETAILS
RF-100	FAA LDIN WIRING DIAGRAM
X-101	CROSS SECTIONS
X-102	CROSS SECTIONS
X-103	CROSS SECTIONS
X-104	CROSS SECTIONS
X-105	CROSS SECTIONS

ITEM NO.	PAY ITEM NO.	DESCRIPTION	UOM	QUANTITY
1	AR150520	MOBILIZATION	LS	1
2	AR150530	TRAFFIC MAINTENANCE	LS	1
3	AR108090	1/C #10 XLP-USE	LF	1,782
4	AR108158	1/C #8 5KV UG CABLE IN UD	LF	63
5	AR108710	1/C #10 COUNTERPOISE	LF	594
6	AR108806	6 PAIR CONTROL CABLE	LF	594
7	AR108960	REMOVE CABLE	LF	790
8	AR110212	2" STEEL DUCT, DIRECT BURY	LF	30
9	AR110216	5" STEEL DUCT, DIRECT BURY	LF	60
10	AR110550	SPLIT DUCT	LF	120
11	AR110810	JUNCTION BOX	EA	1
12	AR152410	UNCLASSIFIED EXCAVATION	CY	7,000
13	AR152520	UNDERCUT	SY	833
14	AR156510	SILT FENCE	LF	2,890
15	AR156520	INLET PROTECTION	EA	15
16	AR156531	EROSION CONTROL BLANKET	SY	11,000
17	AR162506	CLASS E FENCE 6'	LF	200
18	AR162900	REMOVE CLASS E FENCE	LF	549
19	AR209600	GEOTEXTILE FABRIC	SY	1,467
20	AR803065	CONSTRUCTION ENTRANCE	LS	1
21	AR209610	CRUSHED AGG. BASE COURSE - 10"	SY	8,532
22	AR401610	BITUMINOUS SURFACE COURSE	TON	700
23	AR401900	REMOVE BITUMINOUS PAVEMENT	SY	141
24	AR403610	BITUMINOUS BASE COURSE	TON	1,150
25	AR602510	BITUMINOUS PRIME COAT	GAL	3,905
26	AR603510	BITUMINOUS TACK COAT	GAL	1,171
27	AR620520	PAVEMENT MARKING - WATERBORNE	SF	2,867
28	AR620900	PAVEMENT MARKING REMOVAL	SF	934
29	AR701164	PRECAST CONC. BOX CULVERT 6'x4'	LF	67
30	AR701512	12" RCP, CLASS IV	LF	306
31	AR701515	15" RCP, CLASS IV	LF	253
32	AR701524	24" RCP, CLASS IV	LF	171
33	AR751540	MANHOLE 4'	EA	1
34	AR751560	MANHOLE 6'	EA	1
35	AR751600	CATCH BASIN	EA	1
36	AR803062	48" DIA. CATCH BASIN W/ 18R SNOUT & BIOSKIRT	EA	5
37	AR751906	REMOVE CATCH BASIN	EA	1
38	AR803061	CORE & CONNECT TO EXISTING BOX CULVERT	EA	2
39	AR752412	PRECAST REINFORCED CONC. FES 12"	EA	13
40	AR752424	PRECAST REINFORCED CONC. FES 24"	EA	6
41	AR752615	CONCRETE HEADWALL 15"	EA	3
42	AR754410	COMB CONCRETE CURB & GUTTER	LF	47
43	AR754904	REMOVE COMB CURB & GUTTER	LF	47
44	AR803063	BOX CULVERT END SECTION	EA	2
45	AR803064	BOX CULVERT GRATING	LS	1
46	AR803060	INFILTRATION TRENCH	SY	150
47	AR901510	SEEDING	ACRE	4.26
48	AR908510	MULCHING	ACRE	4.26
49	AR910200	ROADWAY SIGN	EA	10.00

**ABBREVIATIONS:**

AC	ADVISORY CIRCULAR
AOA	AIR OPERATIONS AREA
ARFF	AIRPORT RESCUE AND FIRE FIGHTING
AWOS	AUTOMATED WEATHER OBSERVATION SYSTEM
BM	BENCHMARK
BP	BEGINNING OF PROFILE
BVCE	BEGIN VERTICAL CURVE ELEVATION
BVCS	BEGIN VERTICAL CURVE STATION
CL	CENTERLINE
DAA	DUPAGE AIRPORT AUTHORITY
EA	EACH
EG	EXISTING GROUND
ELEV	ELEVATION
EP	END OF PROFILE
EVCE	END VERTICAL CURVE ELEVATION
EVCS	END VERTICAL CURVE STATION
EX	EXISTING
FAA	FEDERAL AVIATION ADMINISTRATION
FG	FINISHED GRADE
FFE	FINISHED FLOOR ELEVATION
FOD	FOREIGN OBJECT DEBRIS
FT	FEET
GRS	GALVANIZED RIGID STEEL
GRSC	GALVANIZED RIGID STEEL CONDUIT
IDOT	ILLINOIS DEPARTMENT OF TRANSPORTATION
IDOT-DOA	ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF AERONAUTICS
INV	INVERT
LDIN	LEAD-IN APPROACH LIGHTS
LF	LINEAR FOOT
LS	LUMP SUM
LT	LEFT
MAX	MAXIMUM
MIN	MINIMUM
N	NORTH
NE	NORTHEAST
NO.	NUMBER
NW	NORTHWEST
NTS	NOT TO SCALE
OC	ON-CENTER
OFA	OBJECT FREE AREA
OFZ	OBSTACLE FREE ZONE
PC	POINT OF CURVATURE
PCC	PORTLAND CEMENT CONCRETE
PGE	POROUS GRANULAR EMBANKMENT
PR	PROPOSED
PT	POINT OF TANGENCY
R	RADIUS
RC	REMOVE ADVERSE CROWN
REIL	RUNWAY END IDENTIFIER LIGHTS
RSA	RUNWAY SAFETY AREA
RT	RIGHT
RW	RUNWAY
S	SOUTH
SCH	SCHEDULE
STA	STATION
SW	SOUTHWEST
SY	SQUARE YARD
TBM	TEMPORARY BENCHMARK
TSA	TAXILANE/TAXIWAY SAFETY AREA
TW	TAXIWAY
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
VC	VERTICAL CURVE
VERT	VERTICAL
W	WEST

Scale For Microfitting  
Millimeters  
Inches

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1431 OPUS PLACE, SUITE 400  
DOWNERS GROVE, IL 60515  
630-724-3200  
LICENSEE NO. 184-001310

date	JANUARY 25, 2016	detailed	A.BUDNIK
designed	A.BUDNIK	checked	B.QUINLAN



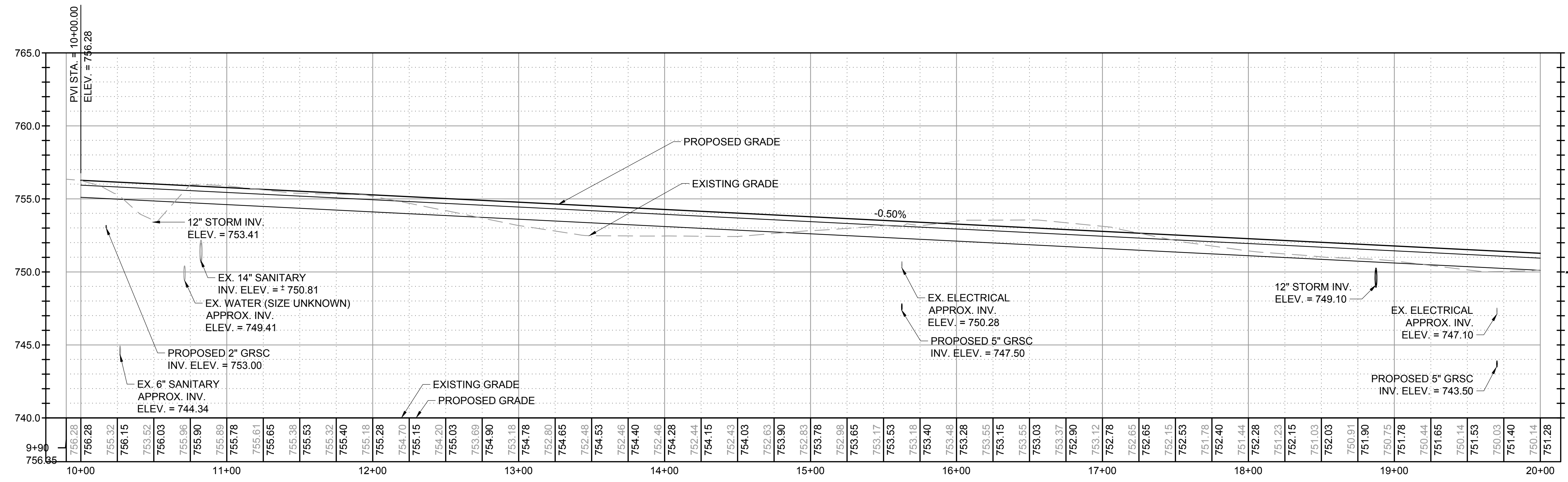
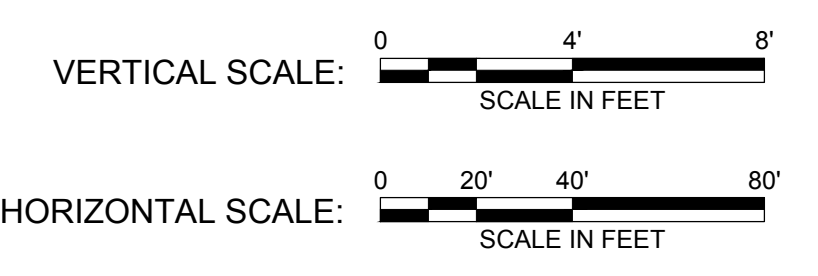
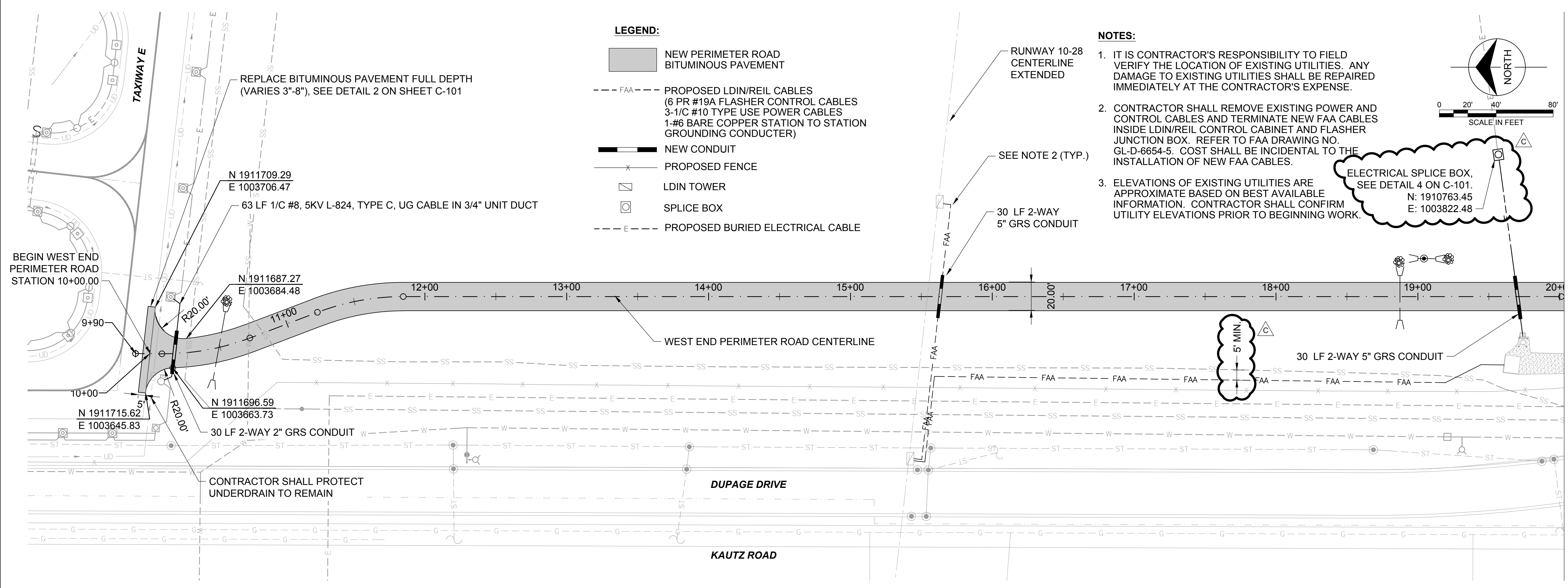
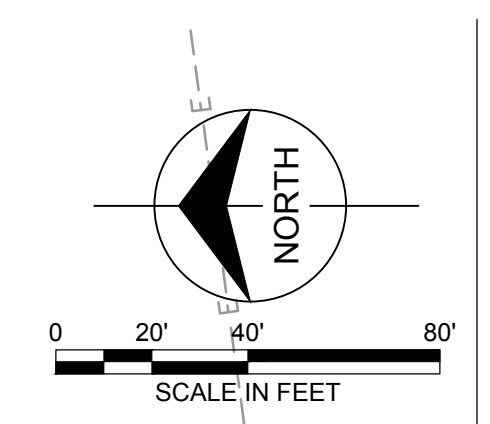
**WEST END PERIMETER ROADWAY**  
INDEX OF DRAWINGS AND  
SUMMARY OF QUANTITIES

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drawing	<b>G-002</b>	rev.	-
sheet	of	sheets	file

no.	date	by	ckd	description
A	03/18/16	AB	BQ	ISSUED FOR 80% REVIEW
B	04/15/16	AB	BQ	ISSUED FOR BID
C	06/01/16	AB	BQ	ISSUED FOR ADDENDUM NO. 1

- LEGEND:**
- NEW PERIMETER ROAD BITUMINOUS PAVEMENT
  - PROPOSED LDIN/REIL CABLES (6 PR #19A FLASHER CONTROL CABLES 3-1/8 TYPE USE POWER CABLES 1-#6 BARE COPPER STATION TO STATION GROUNDING CONDUCTOR)
  - NEW CONDUIT
  - PROPOSED FENCE
  - LDIN TOWER
  - SPLICE BOX
  - PROPOSED BURIED ELECTRICAL CABLE

- NOTES:**
- IT IS CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF EXISTING UTILITIES. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
  - CONTRACTOR SHALL REMOVE EXISTING POWER AND CONTROL CABLES AND TERMINATE NEW FAA CABLES INSIDE LDIN/REIL CONTROL CABINET AND FLASHER JUNCTION BOX. REFER TO FAA DRAWING NO. GL-D-6654-5. COST SHALL BE INCIDENTAL TO THE INSTALLATION OF NEW FAA CABLES.
  - ELEVATIONS OF EXISTING UTILITIES ARE APPROXIMATE BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL CONFIRM UTILITY ELEVATIONS PRIOR TO BEGINNING WORK.



MATCHLINE: SEE SHEET CS-102

**BURNS MEDONNELL**  
 1431 OPUS PLACE, SUITE 400  
 DOWNERS GROVE, IL 60515  
 630-724-3200  
 LICENSEE NO. 184-001310

date	JANUARY 25, 2016	detailed	A.BUDNIK
designed	A.BUDNIK	checked	B. QUINLAN

**DUPAGE AIRPORT AUTHORITY**  
 DuPage, Illinois


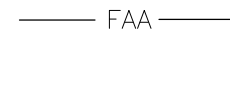

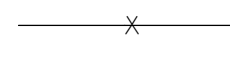
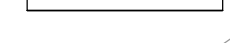
<b>WEST END PERIMETER ROADWAY</b>	
ROADWAY PLAN AND PROFILE STA. 10+00.00 TO STA. 20+00.00	
project	88849
contract	DPA-4300
drawing	<b>CS-101</b>
sheet	of sheets
file	

Scale For Microfitting

Inches

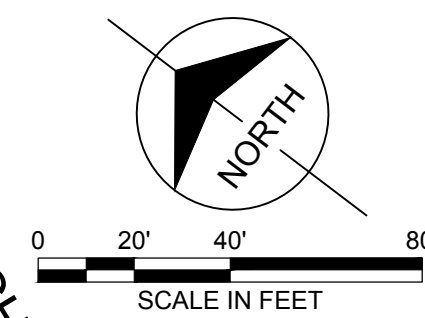
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**LEGEND:**

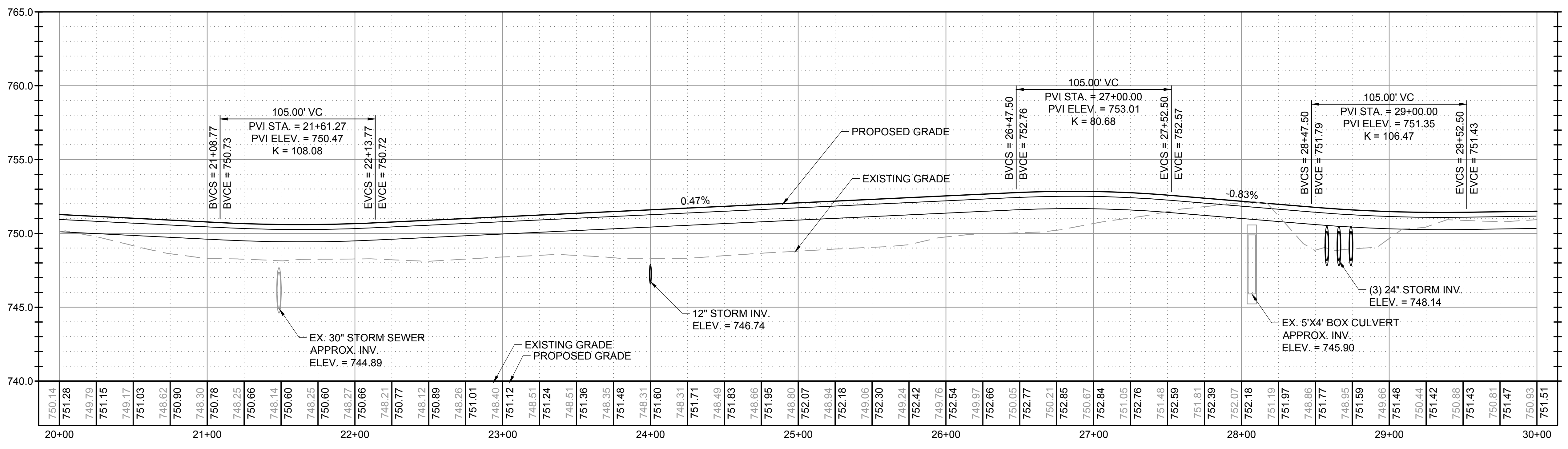
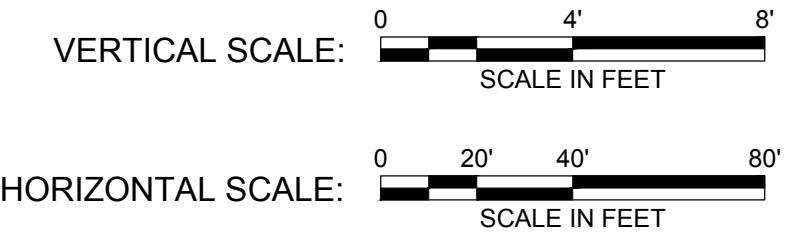
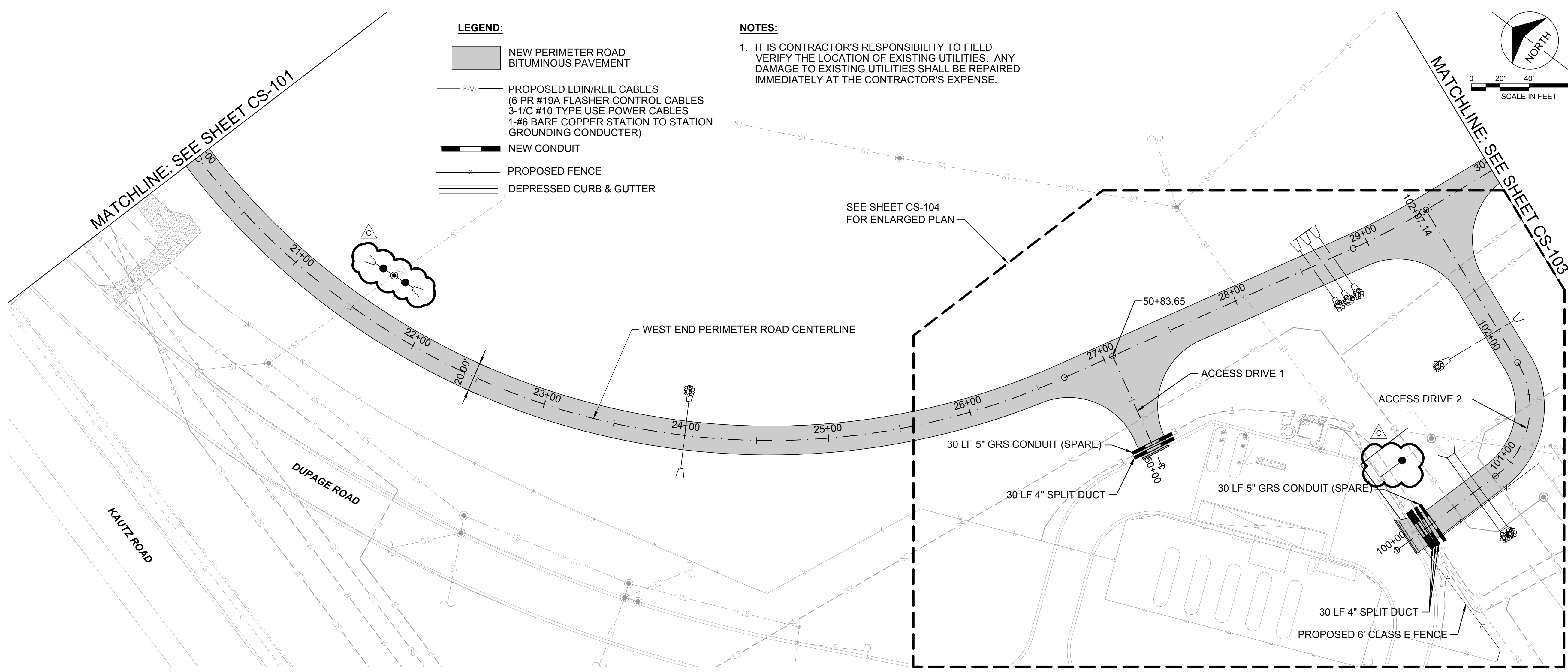
-  NEW PERIMETER ROAD BITUMINOUS PAVEMENT
-  FAA PROPOSED LDIN/REIL CABLES (6 PR #19A FLASHER CONTROL CABLES 3-1/C #10 TYPE USE POWER CABLES 1-#6 BARE COPPER STATION TO STATION GROUNDING CONDUCTOR)
-  NEW CONDUIT
-  PROPOSED FENCE
-  DEPRESSED CURB & GUTTER

**NOTES:**

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Scale For Microfining

Inches

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DOWNERS GROVE, IL 60515  
630-724-3200  
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date	JANUARY 25, 2016	detailed	A.BUDNIK
designed	A.BUDNIK	checked	B.QUINLAN



DuPage, Illinois

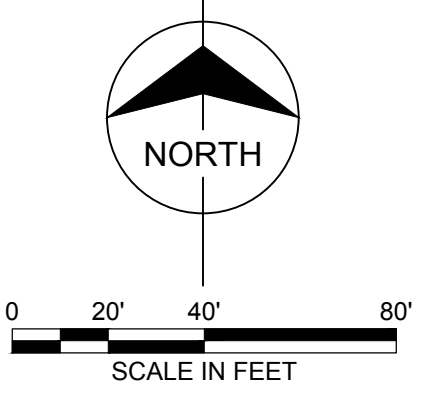
**WEST END PERIMETER ROADWAY**

ROADWAY PLAN AND PROFILE  
STA. 20+00.00 TO STA. 30+00.00

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drawing	<b>CS-102</b>		
sheet	of	sheets	
file			

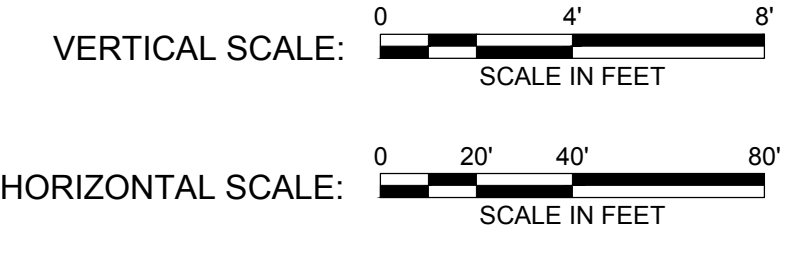
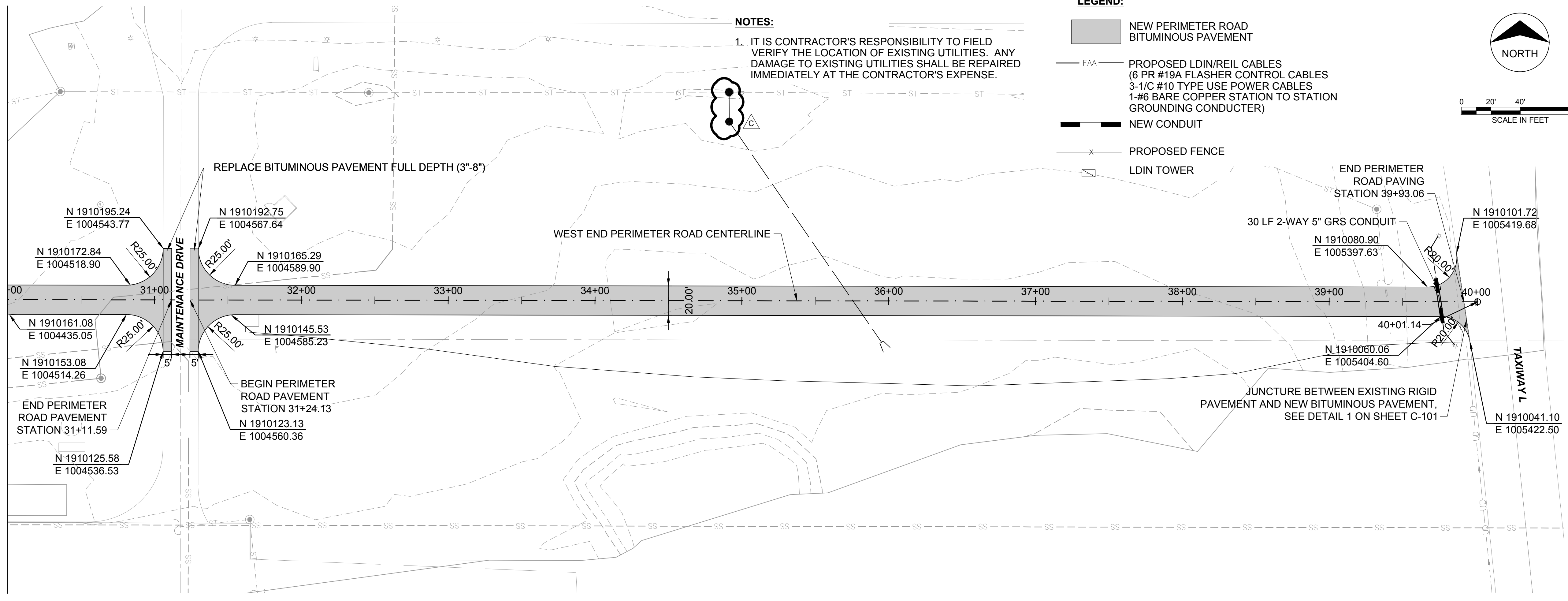
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  - NEW CONDUIT
  - PROPOSED FENCE
  - LDIN TOWER



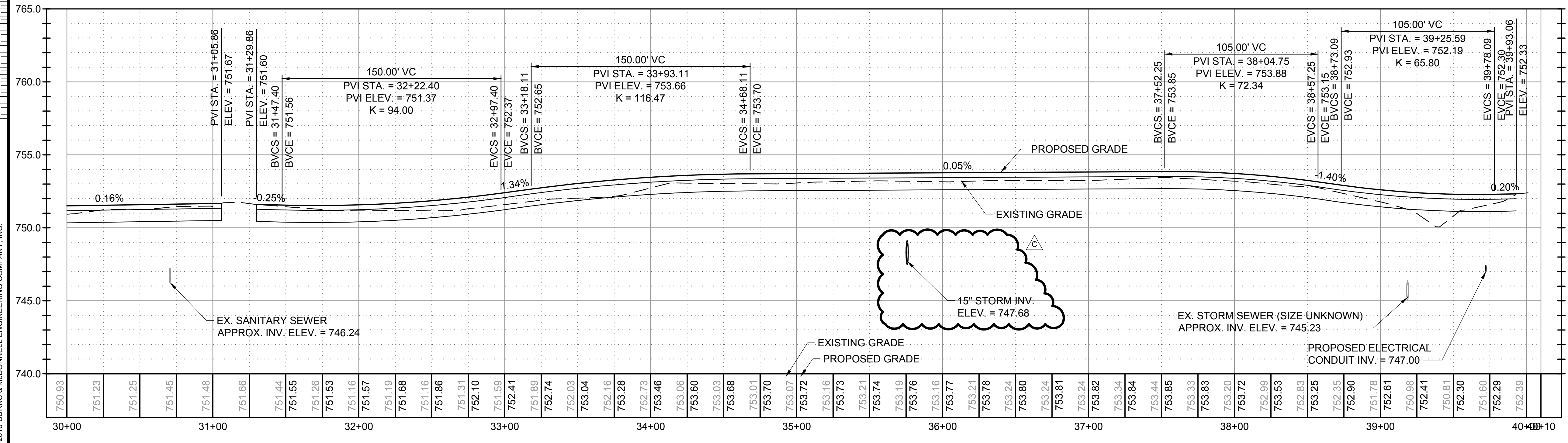
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MATCHLINE: SEE SHEET CS-102



Scale For Microfitting

Inches



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date	JANUARY 25, 2016	detailed	A.BUDNIK
designed	A.BUDNIK	checked	B.QUINLAN


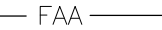
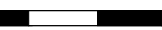
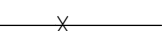
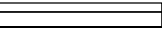
**DUPAGE AIRPORT AUTHORITY**  
 DuPage, Illinois

**WEST END PERIMETER ROADWAY**

ROADWAY PLAN AND PROFILE  
 STA. 30+00.00 TO STA. 39+93.06

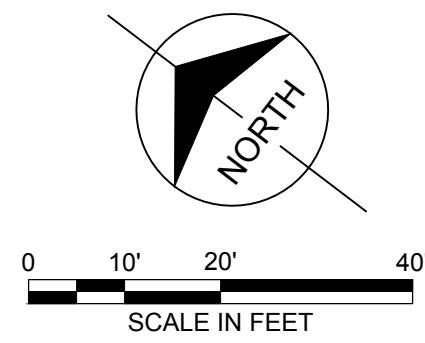
project	88849	contract	DPA-4300
drawing	CS-103		
sheet	of	sheets	
file			



- LEGEND:**
-  NEW PERIMETER ROAD BITUMINOUS PAVEMENT
  -  FAA PROPOSED LDIN/REIL CABLES (6 PR #19A FLAHSER CONTROL CABLES 3-1/C #10 TYPE USE POWER CABLES 1-#6 BARE COPPER STATION TO STATION GROUNDING CONDUCTER)
  -  NEW CONDUIT
  -  PROPOSED FENCE
  -  DEPRESSED CURB & GUTTER

**NOTES:**

1. IT IS CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF EXISTING UTILITIES. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.

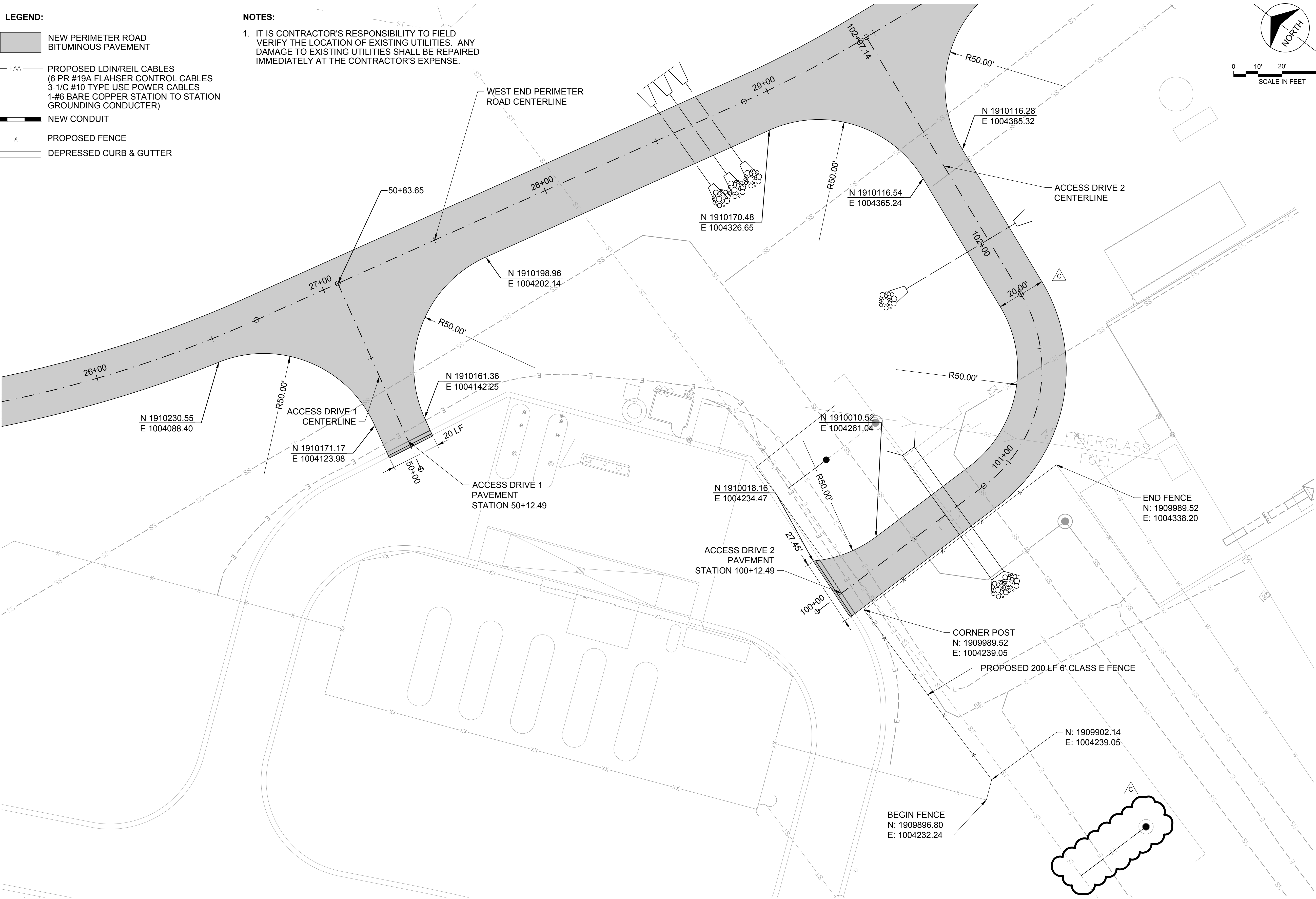


no.	date	by	ckd	description
A	03/18/16	AB	BQ	ISSUED FOR 80% REVIEW
B	04/15/16	AB	BQ	ISSUED FOR BID
C	06/01/16	AB	BQ	ISSUED FOR ADDENDUM NO. 1

Millimeters

Inches

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A

B

C

D

E

F

**BURNS & MCDONNELL**

1431 OPUS PLACE, SUITE 400  
DOWNERS GROVE, IL 60515  
630-724-3200  
LICENSEE NO. 184-001310

date	JANUARY 25, 2016	detailed	A.BUDNIK
designed	A.BUDNIK	checked	B.QUINLAN

**DUPAGE AIRPORT AUTHORITY**

DuPage, Illinois

**WEST END PERIMETER ROADWAY**

ENLARGED SITE PLAN

project	88849	contract	DPA-4300
drawing	<b>CS-104</b>	rev.	
sheet	of	sheets	
file			

A

B

C

D

E

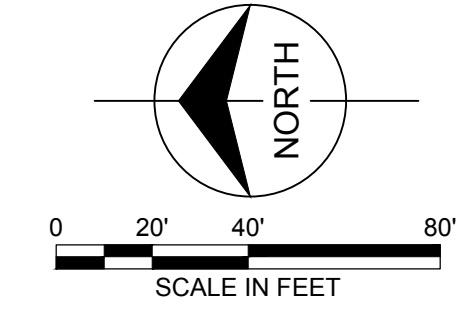
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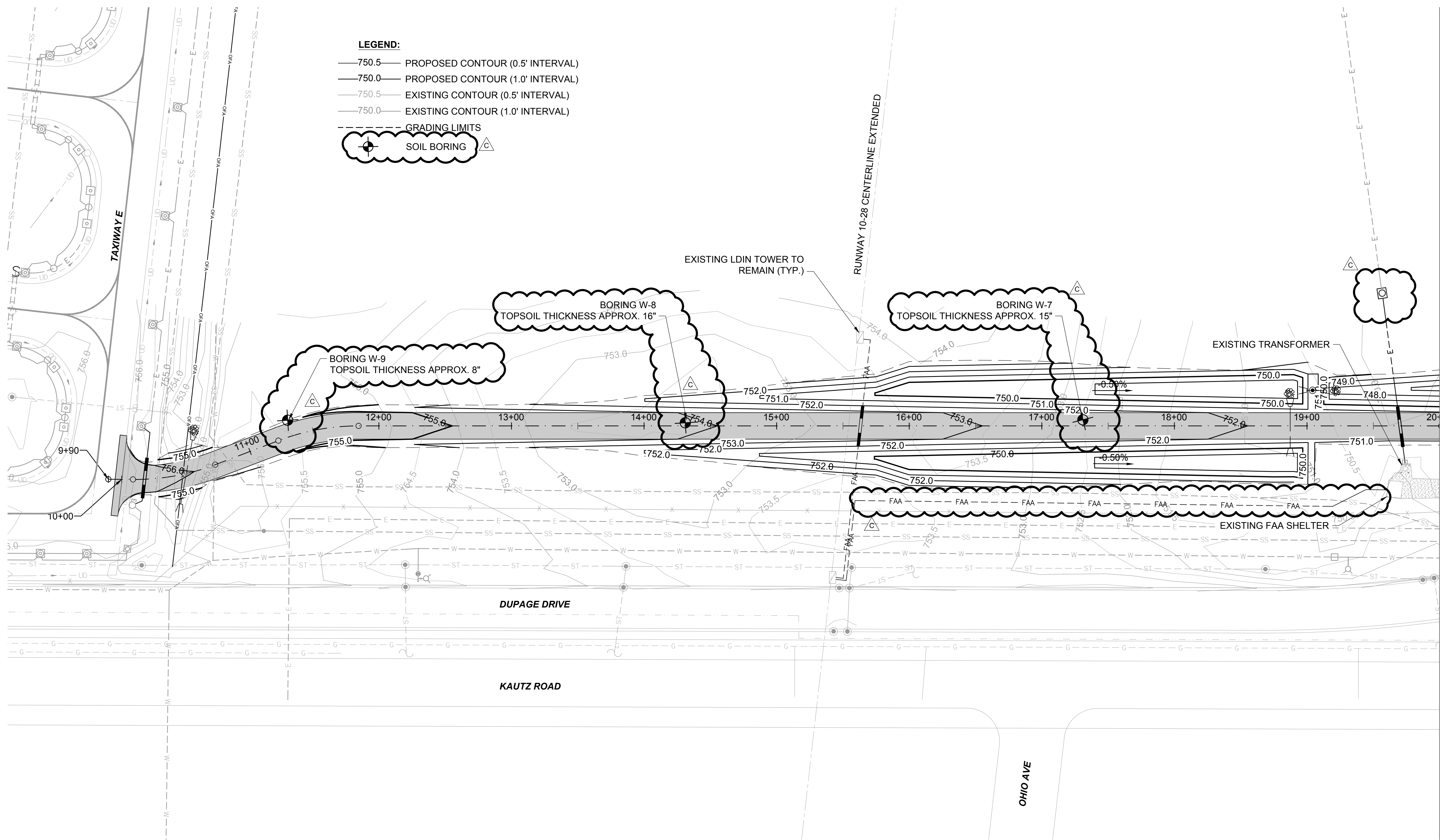
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no.	date	by	ckd	description
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B	04/15/16	AB	BQ	ISSUED FOR BID
C	06/01/16	AB	BQ	ISSUED FOR ADDENDUM NO. 1



- LEGEND:**
- 750.5— PROPOSED CONTOUR (0.5' INTERVAL)
  - 750.0— PROPOSED CONTOUR (1.0' INTERVAL)
  - 750.5— EXISTING CONTOUR (0.5' INTERVAL)
  - 750.0— EXISTING CONTOUR (1.0' INTERVAL)
  - - - GRADING LIMITS
  - ⊕ SOIL BORING



Scale For Microfitting  
Millimeters  
Inches

MATCHLINE: SEE SHEET CG-102

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1431 OPUS PLACE, SUITE 400  
DOWNERS GROVE, IL 60515  
630-724-3200  
LICENSEE NO. 184-001310

date	JANUARY 25, 2016	detailed	A.BUDNIK
designed	A.BUDNIK	checked	B. QUINLAN



**WEST END PERIMETER ROADWAY**  
GRADING PLAN

project	88849	contract	DPA-4300
drawing	<b>CG-101</b>	rev.	
sheet	of	sheets	
file			

**LEGEND:**

- 750.5— PROPOSED CONTOUR (0.5' INTERVAL)
- 750.0— PROPOSED CONTOUR (1.0' INTERVAL)
- 750.5— EXISTING CONTOUR (0.5' INTERVAL)
- 750.0— EXISTING CONTOUR (1.0' INTERVAL)
- - - GRADING LIMITS
- SOIL BORING

NORTH

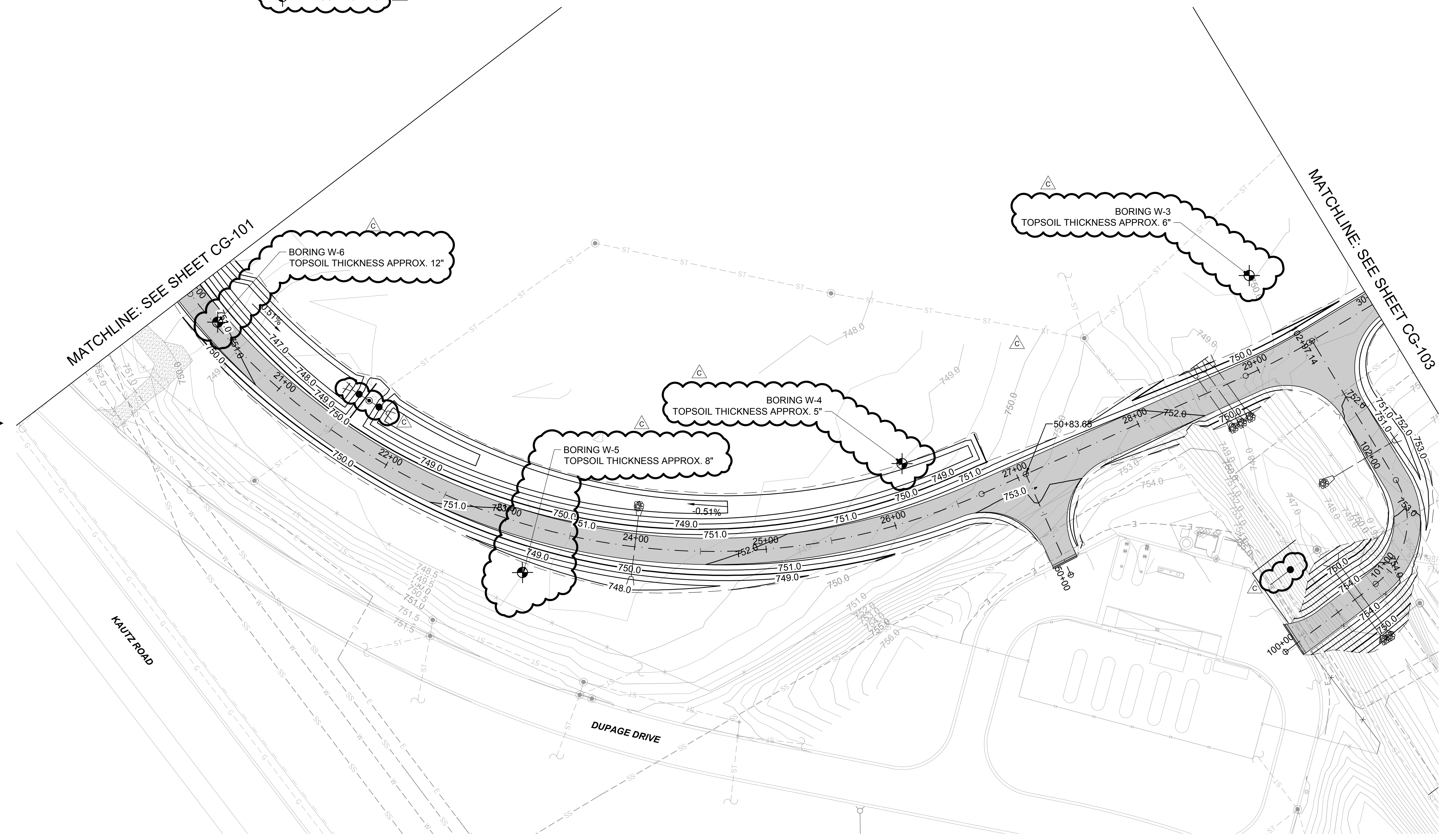
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no.	date	by	ckd	description
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B	04/15/16	AB	BQ	ISSUED FOR BID
C	06/01/16	AB	BQ	ISSUED FOR ADDENDUM NO. 1

Scale For Microfilming

Inches

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MATCHLINE: SEE SHEET CG-101

MATCHLINE: SEE SHEET CG-103

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DOWNERS GROVE, IL 60515  
630-724-3200  
LICENSEE NO. 184-001310

date	JANUARY 25, 2016	detailed	A.BUDNIK
designed	A.BUDNIK	checked	B.QUINLAN

**DUPAGE AIRPORT  
AUTHORITY**

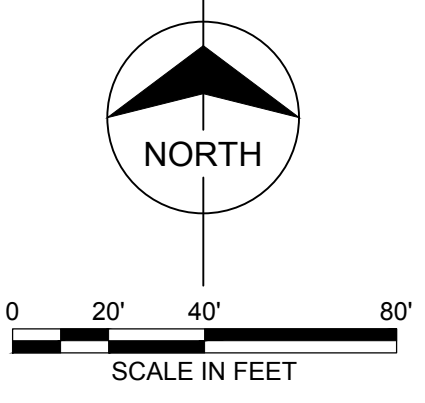
DuPage, Illinois

**WEST END PERIMETER ROADWAY**

GRADING PLAN

project	88849	contract	DPA-4300
drawing	<b>CG-102</b>	rev.	
sheet	of	sheets	
file			

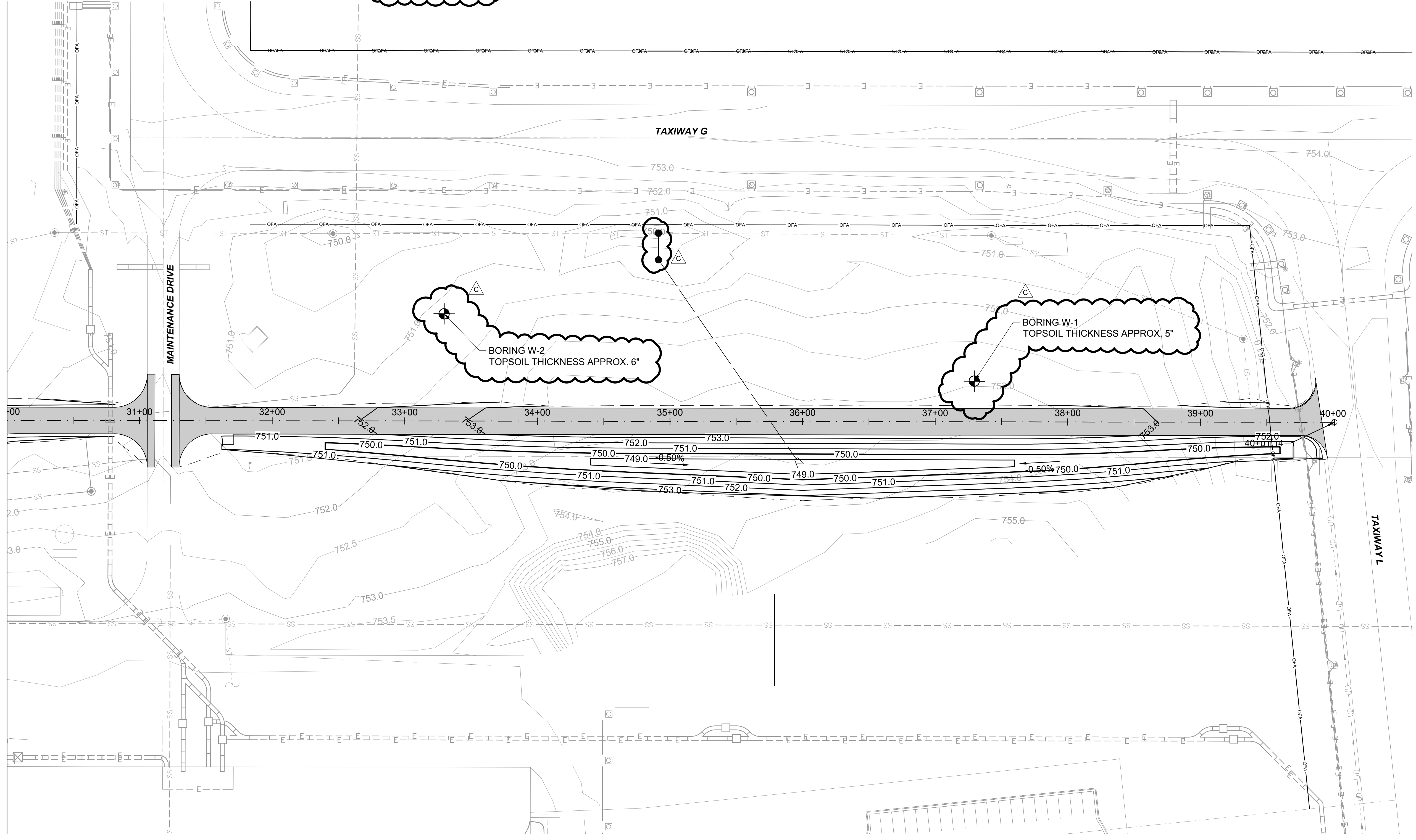
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 -750.5 PROPOSED CONTOUR (0.5' INTERVAL)  
 -750.0 PROPOSED CONTOUR (1.0' INTERVAL)  
 -750.5 EXISTING CONTOUR (0.5' INTERVAL)  
 -750.0 EXISTING CONTOUR (1.0' INTERVAL)  
 --- GRADING LIMITS  
 ⊕ SOIL BORING



no.	date	by	ckd	description
A	03/18/16	AB	BQ	ISSUED FOR 80% REVIEW
B	04/15/16	AB	BQ	ISSUED FOR BID
C	06/01/16	AB	BQ	ISSUED FOR ADDENDUM NO. 1

Millimeters  
 Scale For Microfilming  
 Inches

MATCHLINE: SEE SHEET CG-102



A  
 B  
 C  
 D  
 E  
 F



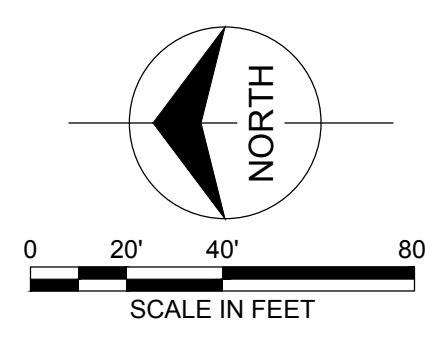
1431 OPUS PLACE, SUITE 400  
 DOWNERS GROVE, IL 60515  
 630-724-3200  
 LICENSEE NO. 184-001310

date	JANUARY 25, 2016	detailed	A.BUDNIK
designed	A.BUDNIK	checked	B.QUINLAN

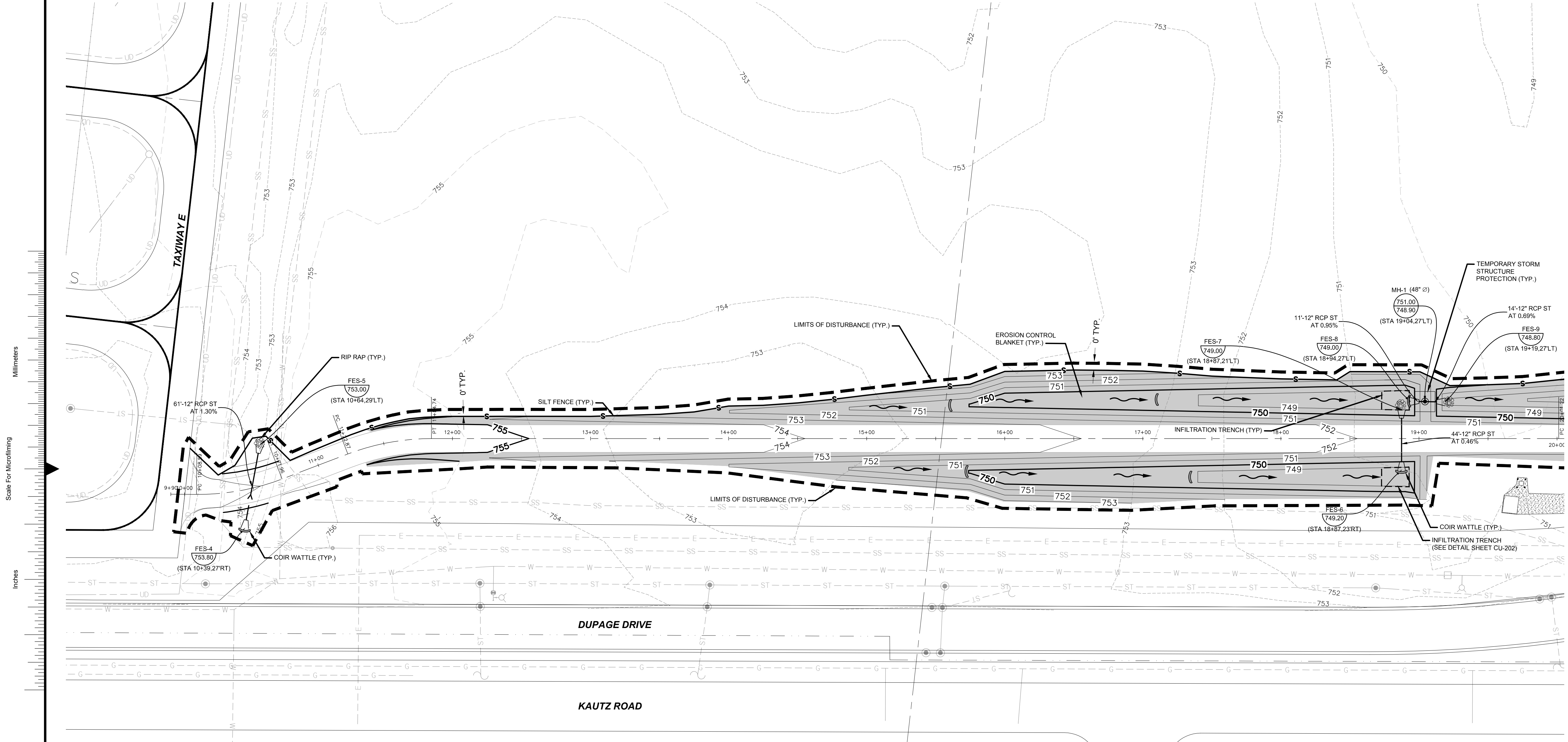


**WEST END PERIMETER ROADWAY**  
 GRADING PLAN

project	88849	contract	DPA-4300
drawing	<b>CG-103</b>	rev.	
sheet	of	sheets	
file			

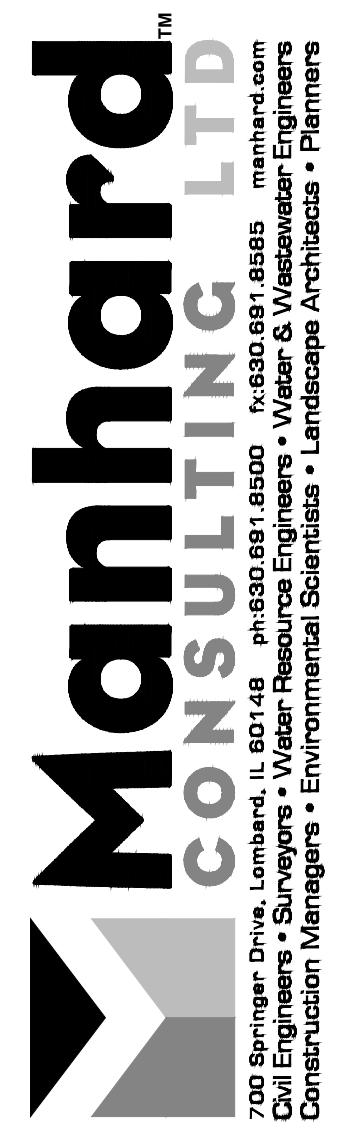


no.	date	by	ckd	description
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B	04/07/16	KS	DB	ISSUED FOR PERMIT REVIEW
C	04/15/16	AB	BQ	ISSUED FOR BID
D	06/01/16	AB	BQ	ISSUED FOR ADDENDUM NO. 1



MATCHLINE: SEE SHEET CU-102

Scale For Microfitting  
Millimeters  
Inches



1431 OPUS PLACE, SUITE 400  
DOWNERS GROVE, IL 60515  
630-724-3200  
LICENSEE NO. 184-001310

date	detailed
designed	checked



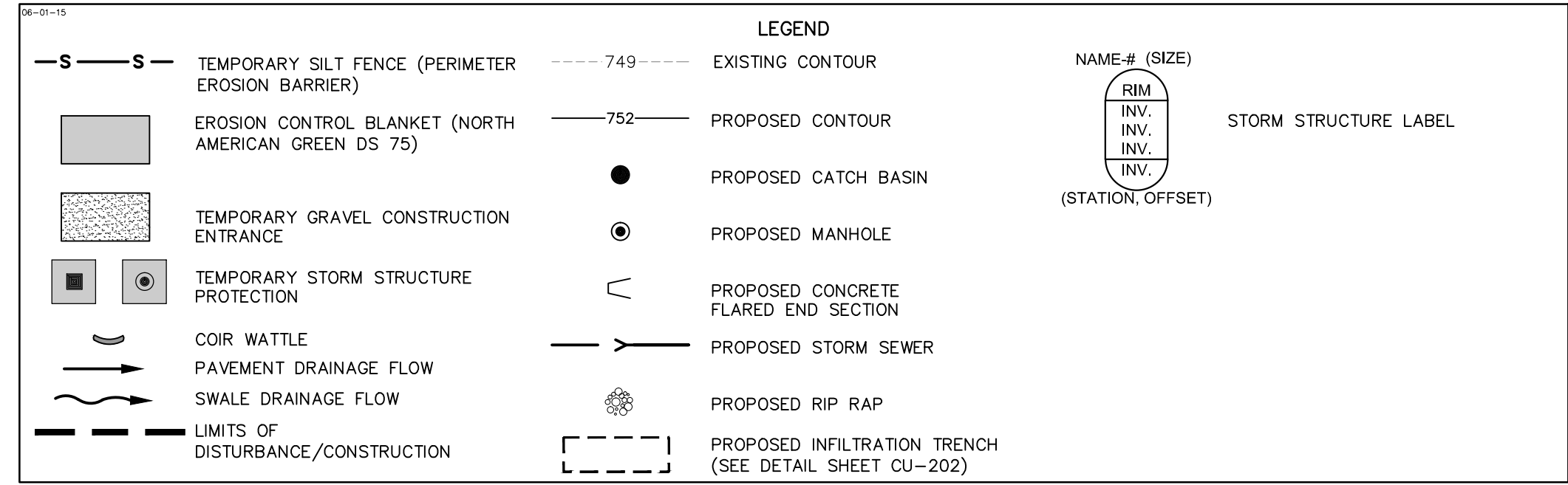
DuPage, Illinois

**WEST END PERIMETER ROADWAY**  
DRAINAGE, SOIL EROSION  
SEDIMENT CONTROL PLAN

project	88849	contract	DPA-4300
drawing	CU-101	rev.	
sheet	of	sheets	
file			

- CONSTRUCTION SEQUENCE:**
1. INSTALL SILT FENCE AT LOCATIONS AS INDICATED ON THE PLANS.
  2. PROVIDE STABILIZED CONSTRUCTION ENTRANCE.
  3. CONSTRUCT DETENTION SWALES TO ACT AS TEMPORARY SEDIMENT TRAPS.
  4. STRIP EXISTING TOPSOIL FROM PROPOSED STORMWATER MANAGEMENT AREAS AND STOCKPILE WHERE SHOWN ON PLANS.
  5. PROVIDE DOUBLE ROW SILT FENCE AROUND THE BASE OF THE STOCKPILES.
  6. CONSTRUCT STORMWATER MANAGEMENT (DETENTION) FACILITIES TO SUB-GRADE AND INSTALL OUTLET PIPES.
  7. COMPLETE TOPSOIL PLACEMENT AND PERMANENT SEEDING AND SODDING OF STORMWATER MANAGEMENT FACILITIES.
  8. CUT AND FILL SITE TO PLAN SUB-GRADE.
  9. CONSTRUCT UNDERGROUND IMPROVEMENTS, I.E. SANITARY SEWER WATERMAIN AND STORM SEWER\*\*, ETC.
  10. CONSTRUCT PAVEMENT IMPROVEMENTS PER PLAN.
  11. COMPLETE CONSTRUCTION OF SITE WITH PERMANENT STABILIZATION.
  12. REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES.
- \*\* INSTALL INLET PROTECTION AROUND DRAINAGE STRUCTURES AS CONSTRUCTED.

DISTURBED AREAS ARE TO BE PERMANENTLY STABILIZED WITH THE SPECIFIED MIX (SEE SPECIAL PROVISIONS)

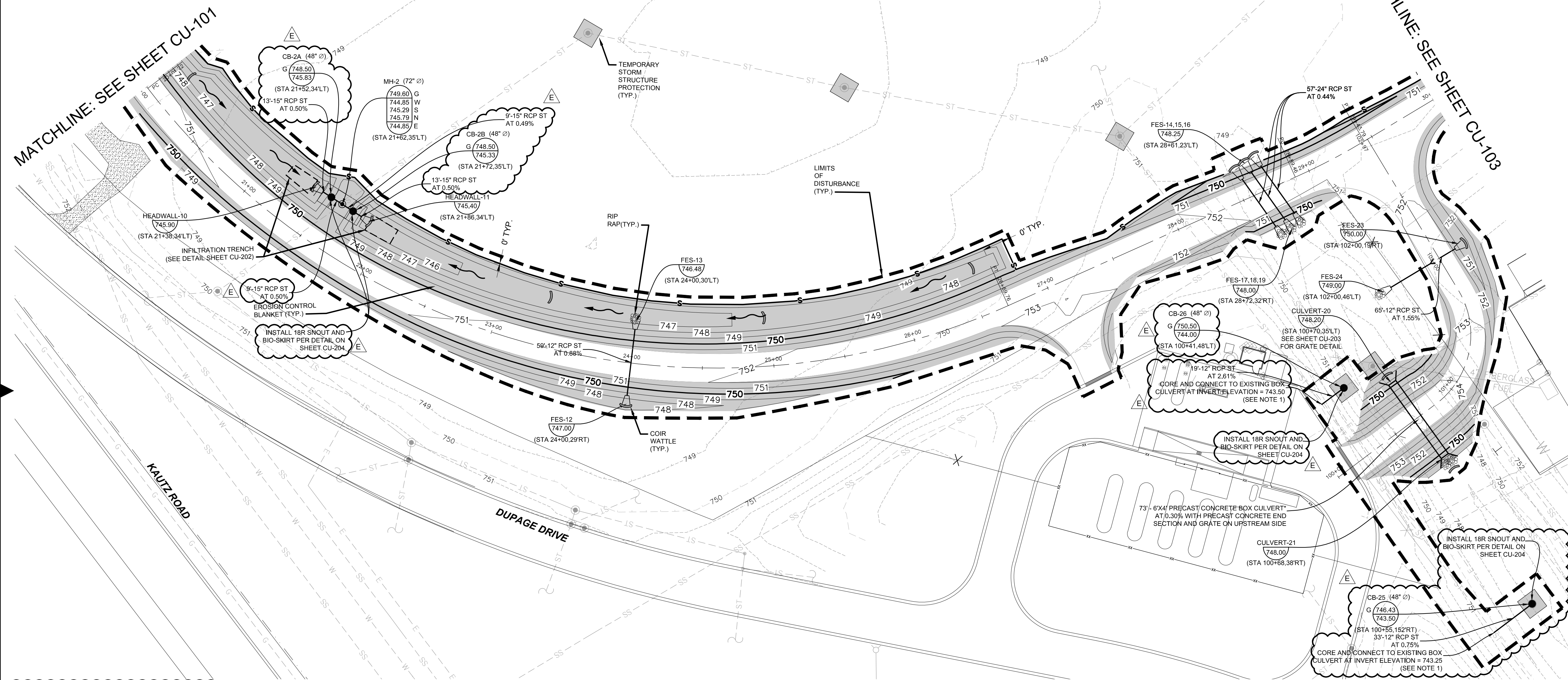
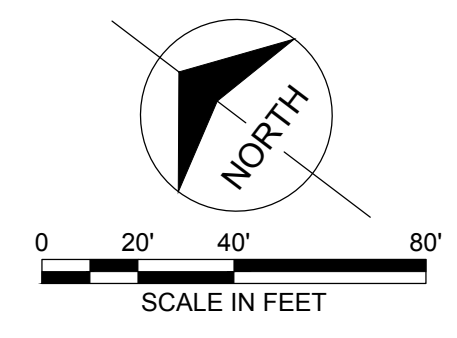


"THESE EROSION CONTROL PLANS ARE A PORTION OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA) TOTAL REQUIREMENTS FOR A COMPLETE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AS REQUIRED BY THE GENERAL NPDES PERMIT NO. ILR10. CLIENT AND/OR CONTRACTOR WILL BE RESPONSIBLE FOR COMPLIANCE WITH ALL REQUIREMENTS OF THE GENERAL NPDES PERMIT AND COMPILATION OF THE COMPLETE SWPPP."

\*PRECAST CONCRETE BOX CULVERT SHALL MEET ASTM C1577

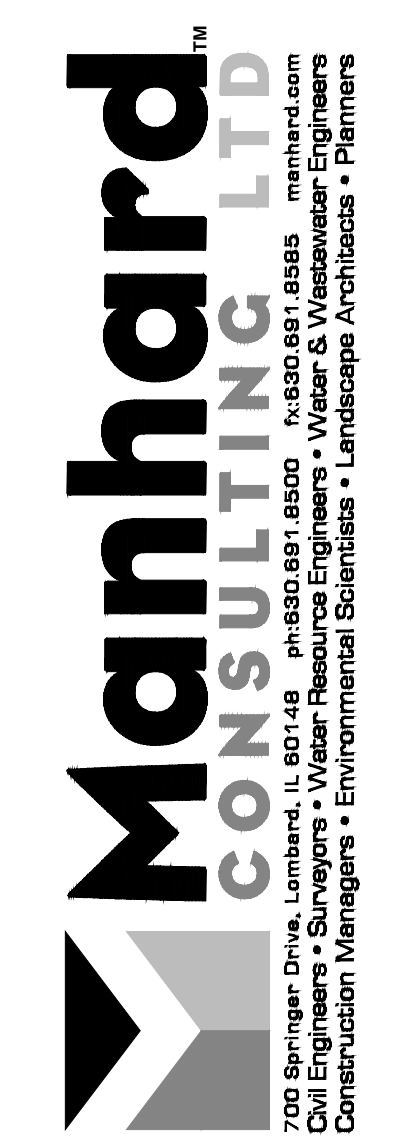
PRECAST BOX CULVERT SCHEDULE (ASTM C1577)					
STATION	SIZE	SKEW	DESIGN FILL (FT)		PGE BACKFILL REQUIRED
			EDGE OF SHOULDER	MAX	
100+69	6'X4'	1.29°	1.62	1.83	YES

PGE BACKFILL REQUIRED SHALL BE CONSIDERED INCIDENTAL TO PRE-CAST CULVERT, PAY ITEM AR701164



Scale For Microfitting  
Millimeters  
Inches

no.	date	by	ckd	description
A	03/18/16	AB	BQ	ISSUED FOR 80% REVIEW
B	04/07/16	KS	DB	ISSUED FOR PERMIT REVIEW
C	04/15/16	AB	BQ	ISSUED FOR BID
D	05/19/16	KS	DB	PER CITY REVIEW
E	06/01/16	AB	BQ	ISSUED FOR ADDENDUM NO. 1



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1431 OPUS PLACE, SUITE 400  
DOWNERS GROVE, IL 60515  
630-724-3200  
LICENSEE NO. 184-001310

date	detailed
designed	checked

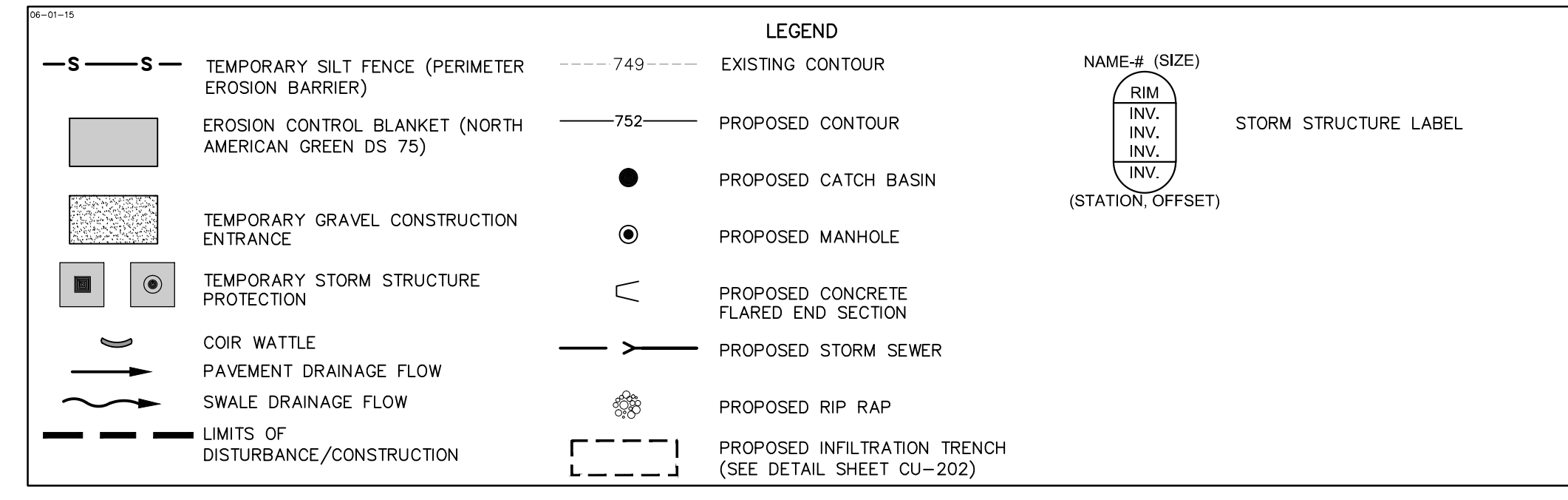


**WEST END PERIMETER ROADWAY**  
DRAINAGE, SOIL EROSION  
SEDIMENT CONTROL PLAN

project	88849	contract	DPA-4300
drawing	<b>CU-102</b>	rev.	
sheet	of	sheets	
file			

**NOTES:**  
1. SCOPE OF WORK INCLUDES 1) EXCAVATION REQUIRED TO EXPOSE CULVERT SIDEWALL 2) CORING OF CULVERT WALL 3) INSTALLATION OF WATER TIGHT SEAL AT CONNECTION 4) BACKFILL AND RESTORATION OF DISTURBED AREA. ALL OF THIS WORK SHALL BE CONSIDERED INCIDENTAL TO PAY ITEM NUMBER AR803061.

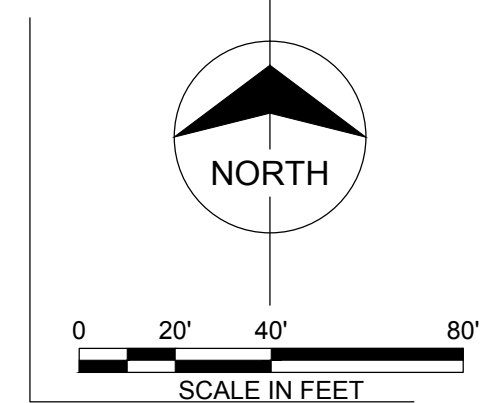
- CONSTRUCTION SEQUENCE:**
1. INSTALL SILT FENCE AT LOCATIONS AS INDICATED ON THE PLANS.
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- \*\* INSTALL INLET PROTECTION AROUND DRAINAGE STRUCTURES AS CONSTRUCTED.



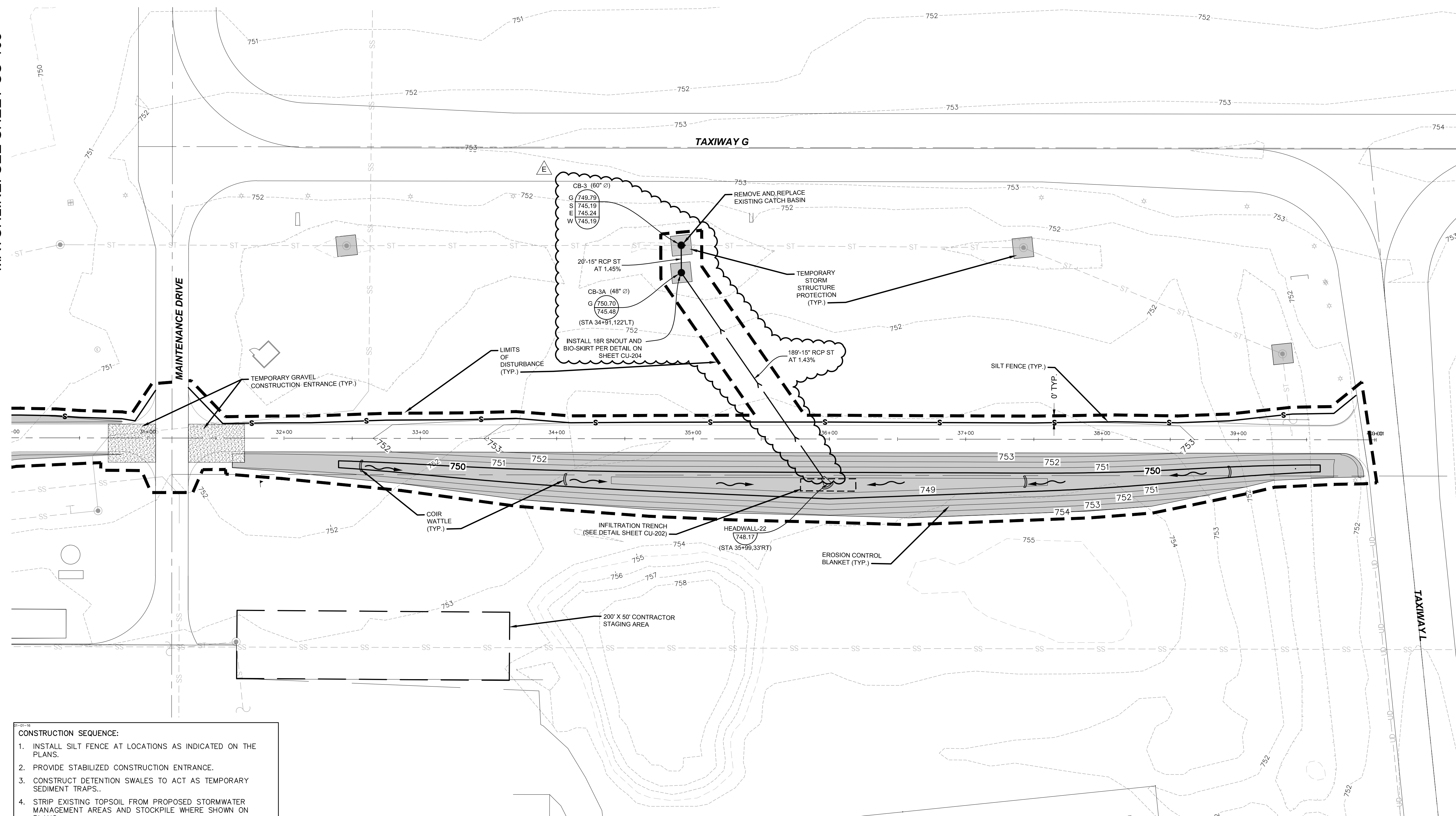
DISTURBED AREAS ARE TO BE PERMANENTLY STABILIZED WITH THE SPECIFIED MIX (SEE SPECIAL PROVISIONS)

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MATCHLINE: SEE SHEET CU-103



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**LEGEND**

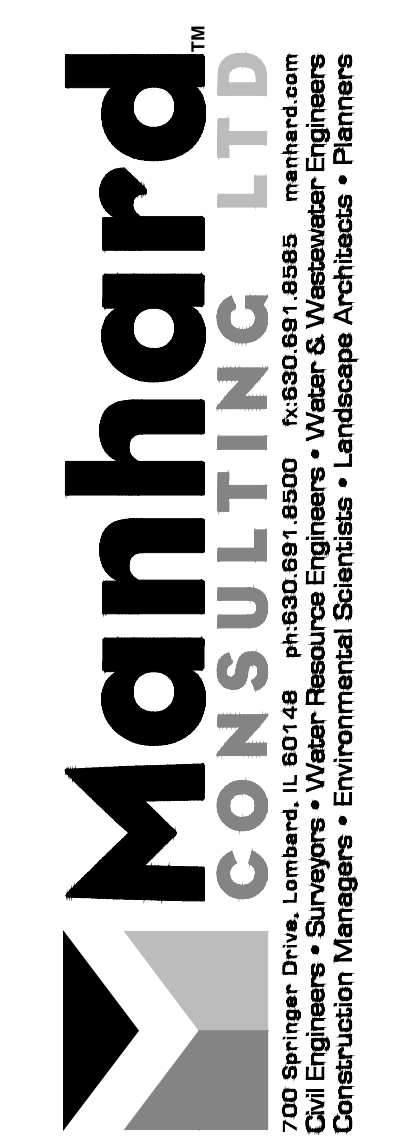
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	EROSION CONTROL BLANKET (NORTH AMERICAN GREEN DS 75)		PROPOSED CONTOUR
	TEMPORARY GRAVEL CONSTRUCTION ENTRANCE		PROPOSED CATCH BASIN
	TEMPORARY STORM STRUCTURE PROTECTION		PROPOSED MANHOLE
	COIR WATTLE		PROPOSED CONCRETE FLARED END SECTION
	PAVEMENT DRAINAGE FLOW		PROPOSED STORM SEWER
	SWALE DRAINAGE FLOW		PROPOSED RIP RAP
	LIMITS OF DISTURBANCE/CONSTRUCTION		PROPOSED INFILTRATION TRENCH (SEE DETAIL SHEET CU-202)

**STORM STRUCTURE LABEL**

NAME# (SIZE)

RIM INV. INV. INV. (STATION, OFFSET)

no.	date	by	ckd	description
A	03/18/16	AB	BQ	ISSUED FOR 80% REVIEW
B	04/07/16	KS	DB	ISSUED FOR PERMIT REVIEW
C	04/15/16	AB	BQ	ISSUED FOR BID
D	05/19/16	KS	DB	PER CITY REVIEW
E	06/01/16	AB	BQ	ISSUED FOR ADDENDUM NO. 1



**BURNS MEDONNELL**

1431 OPUS PLACE, SUITE 400  
 DOWNERS GROVE, IL 60515  
 630-724-3200  
 LICENSEE NO. 184-001310

date	detailed
designed	checked

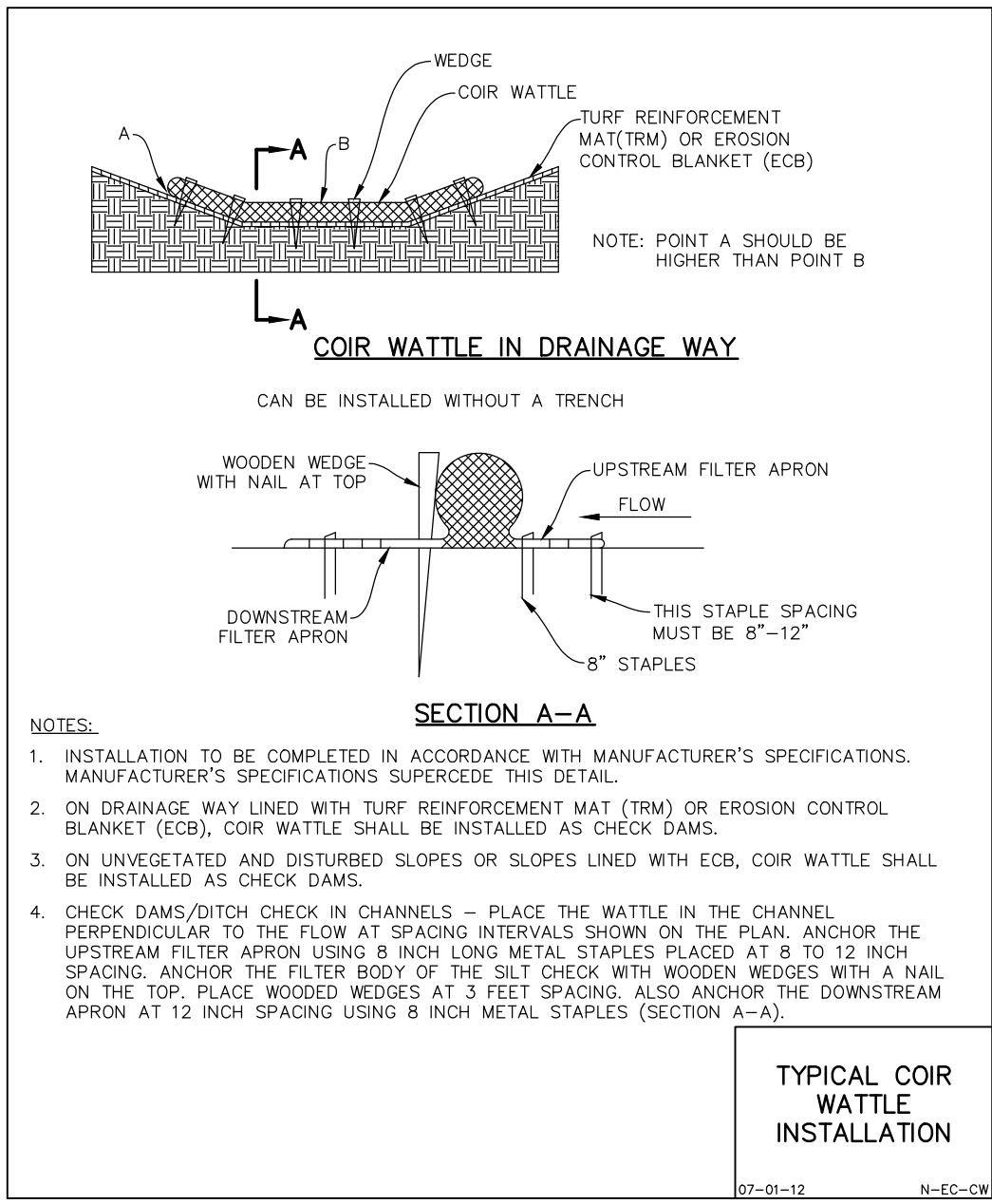
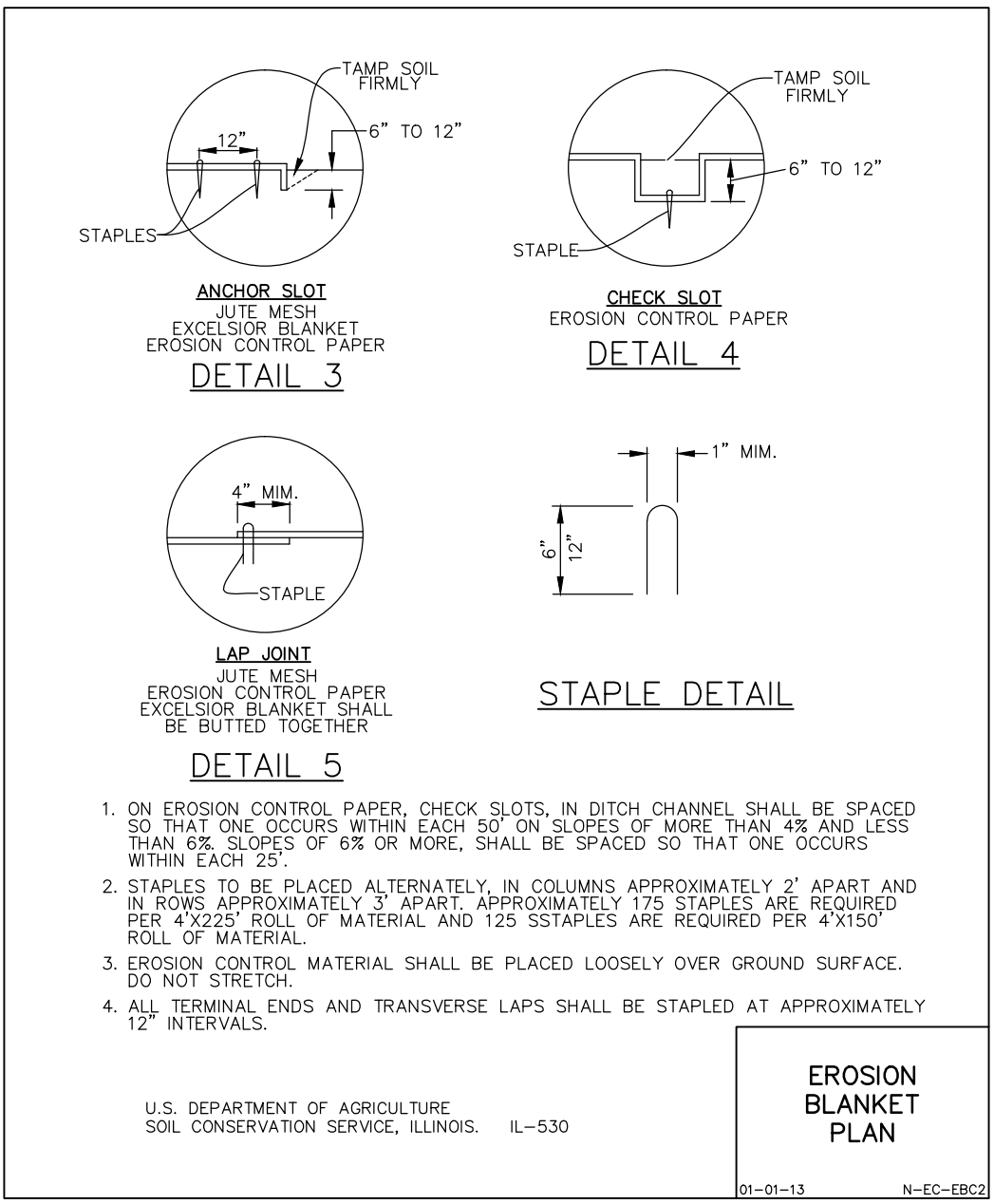
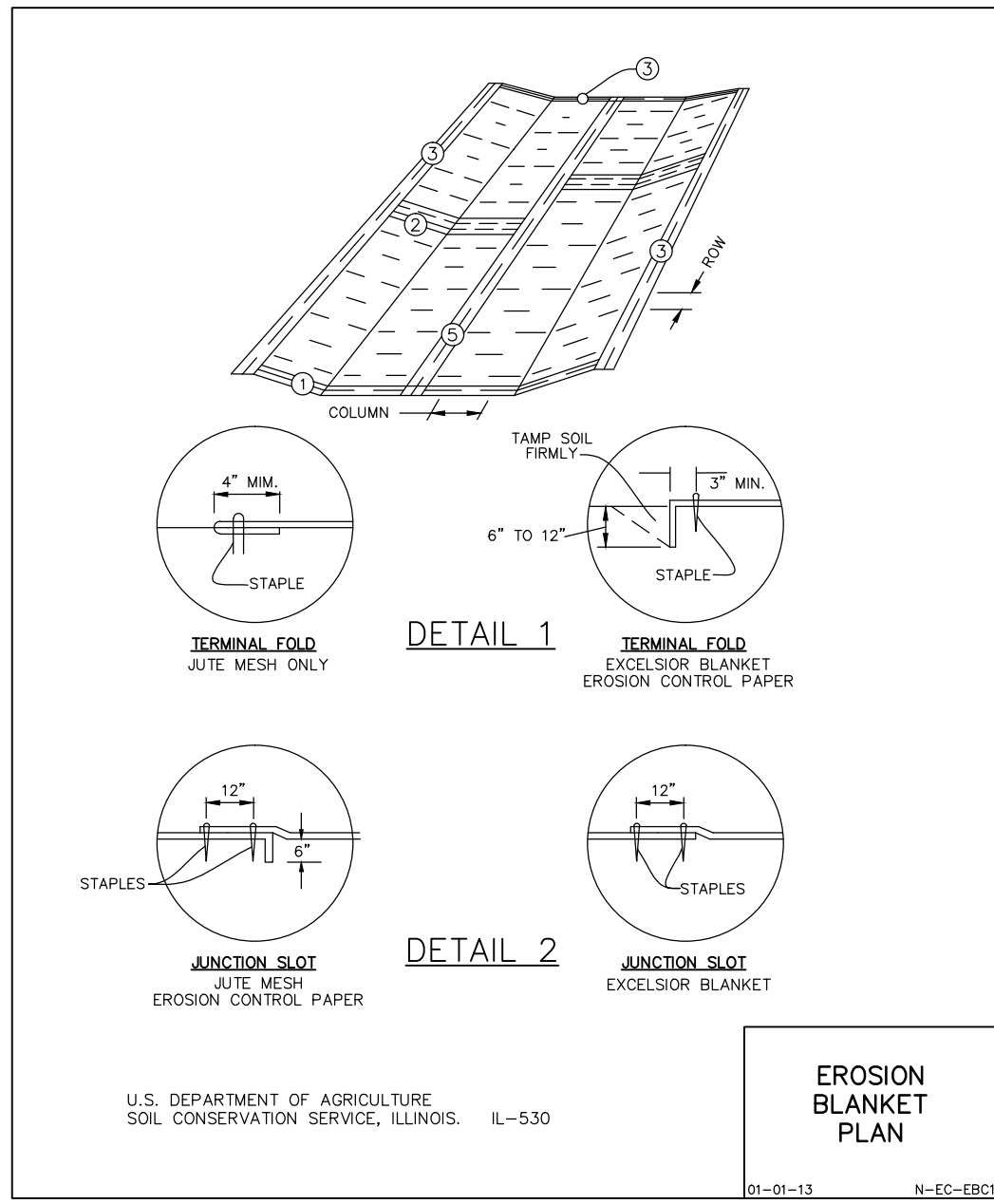
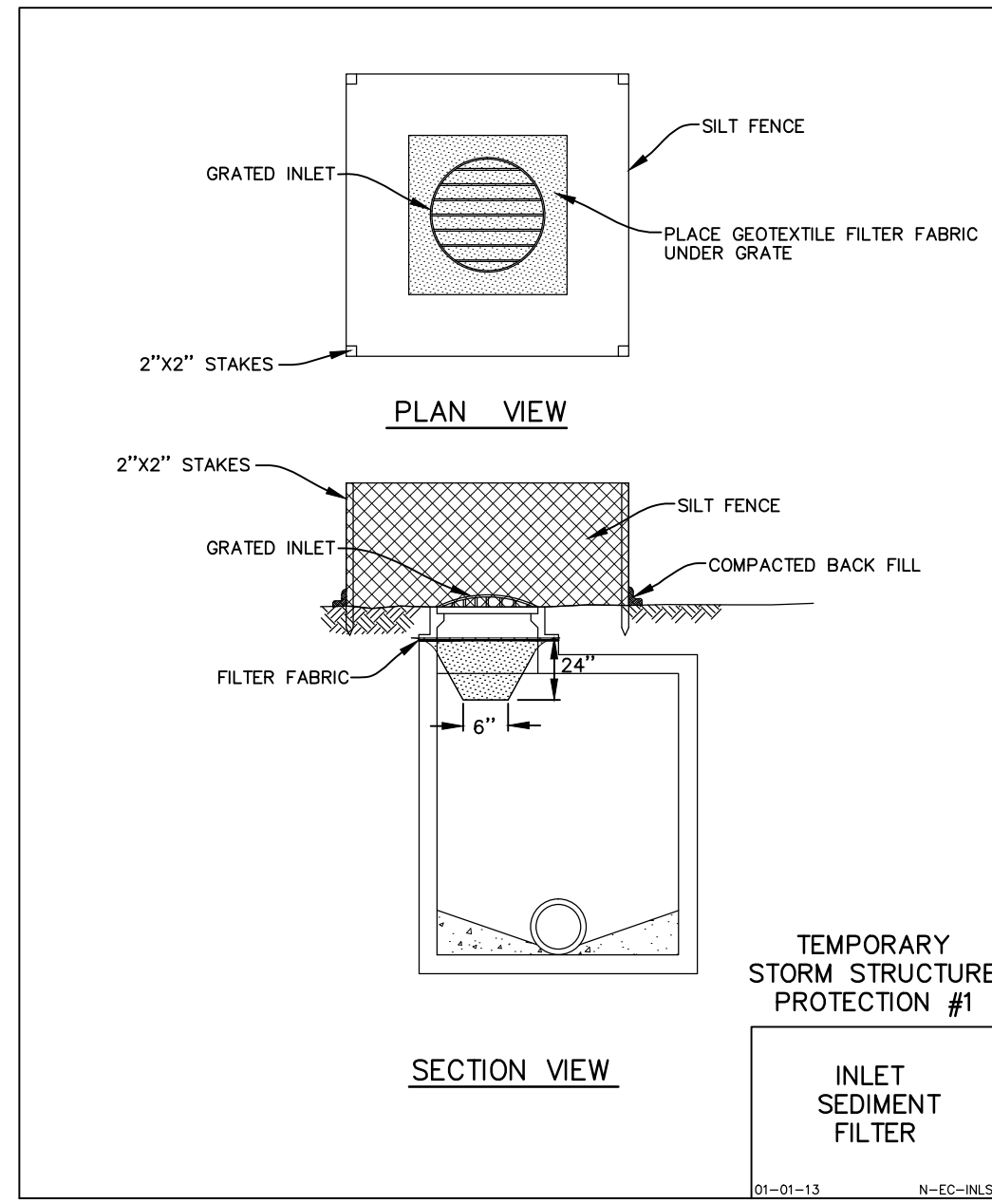
**DUPAGE AIRPORT AUTHORITY**

DuPage, Illinois

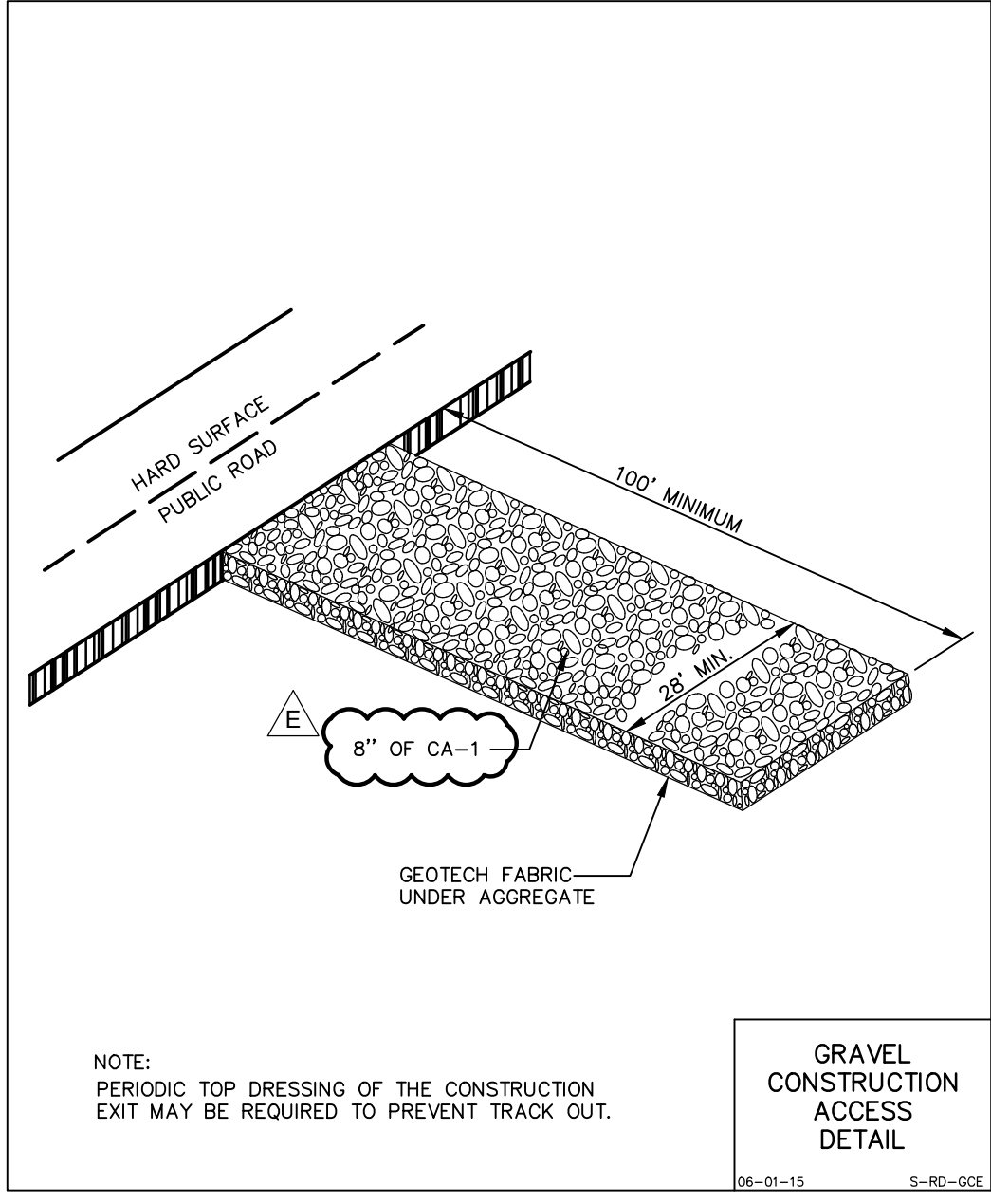
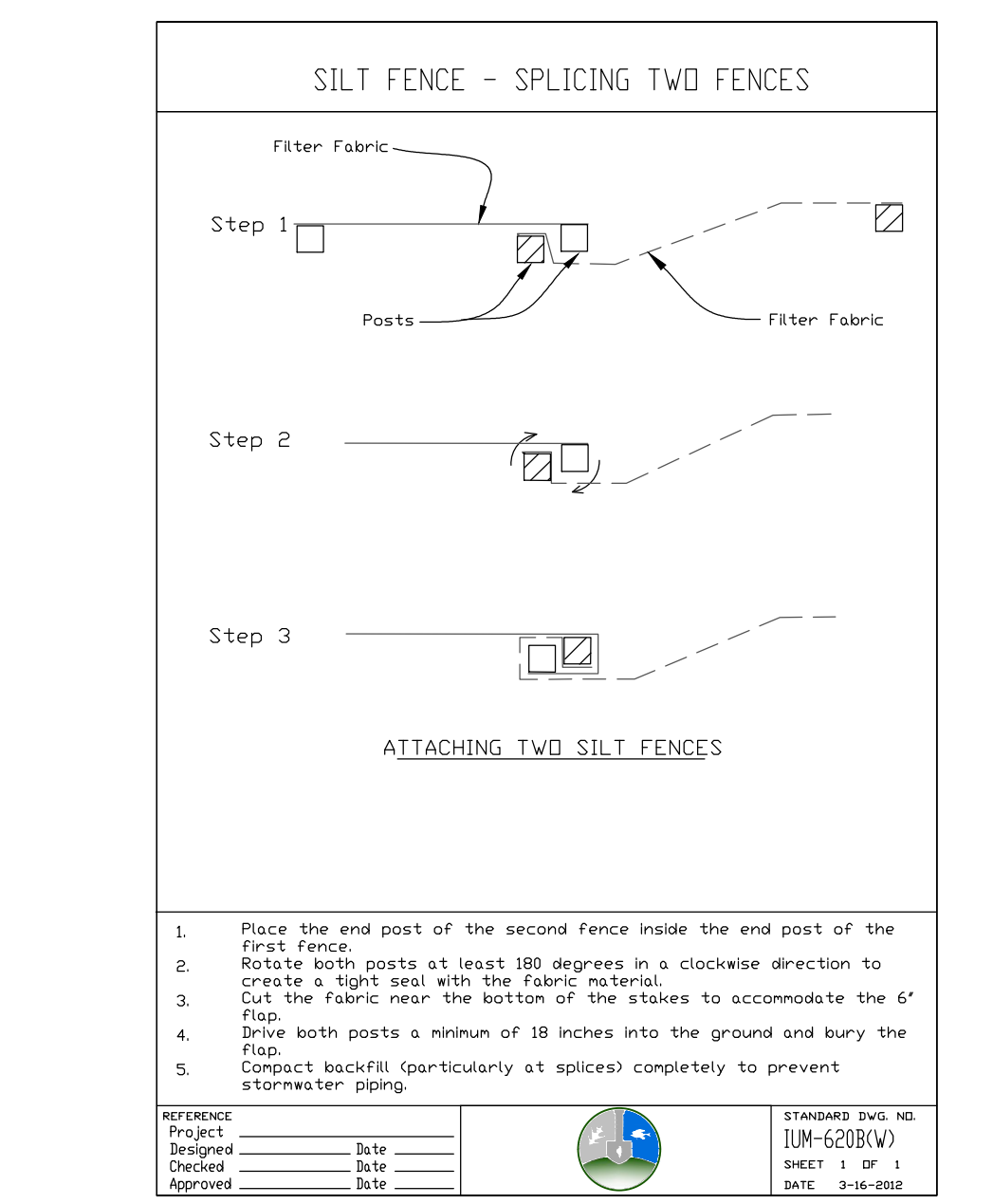
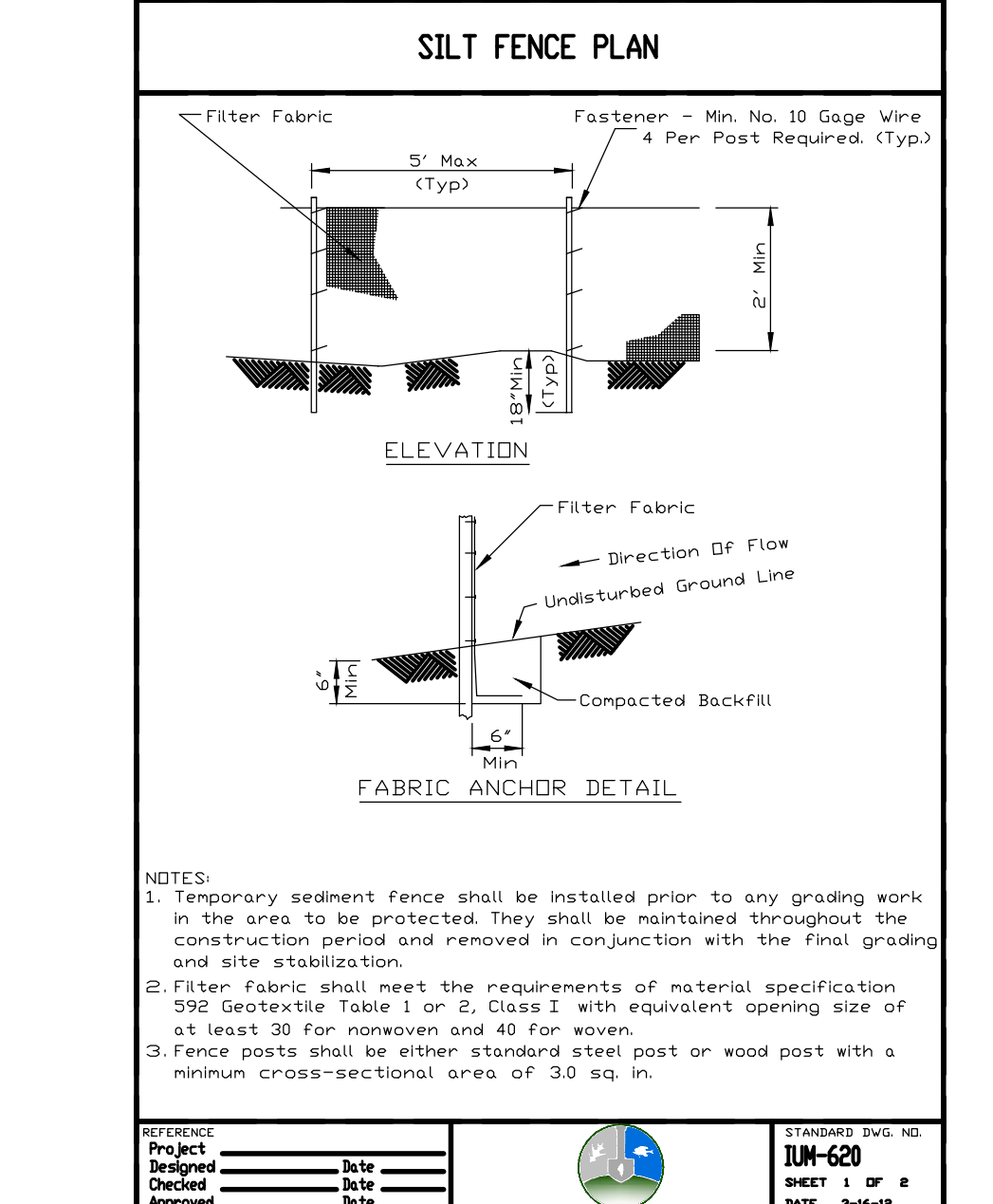
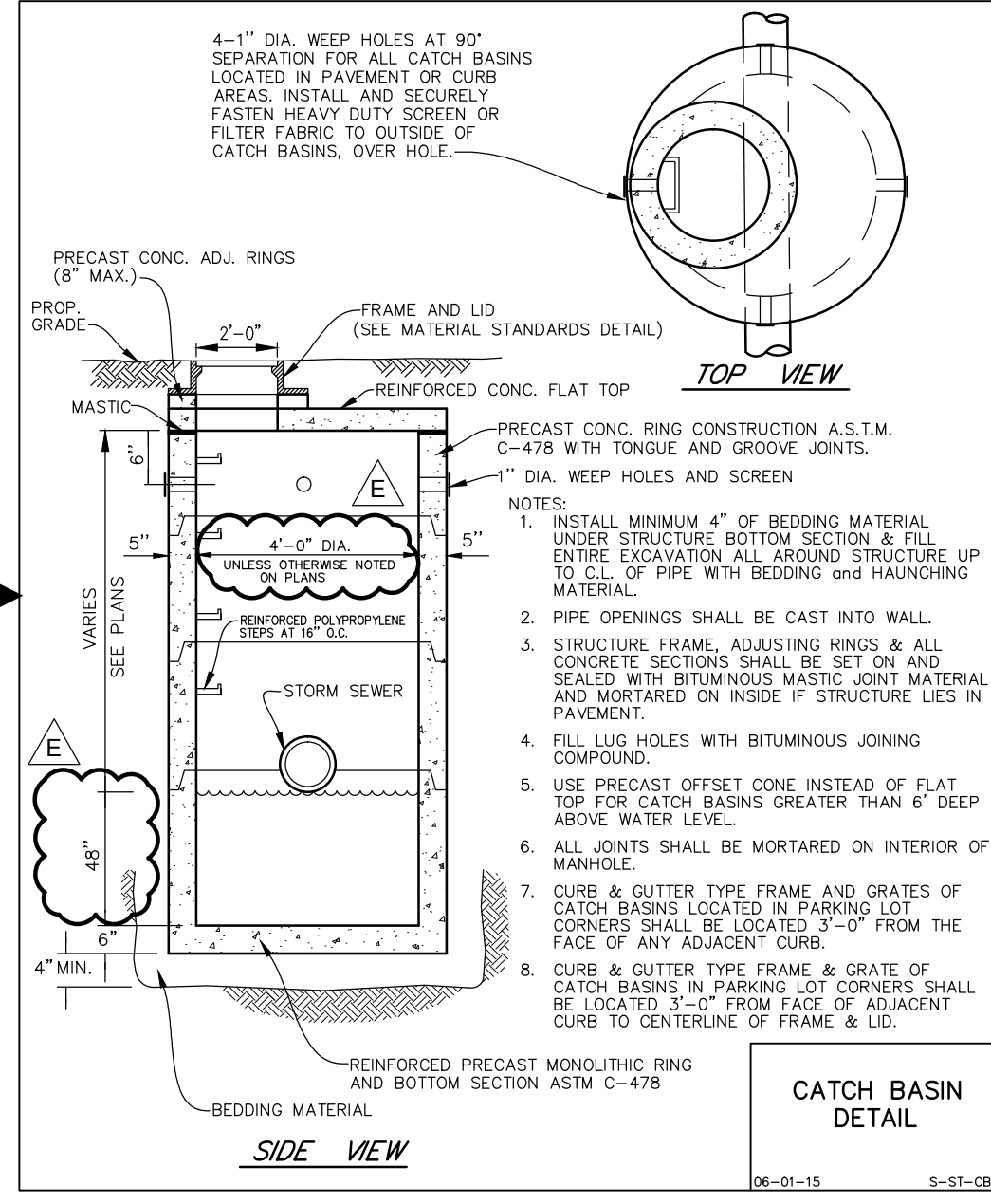
**WEST END PERIMETER ROADWAY**

DRAINAGE, SOIL EROSION  
 SEDIMENT CONTROL PLAN

project	88849	contract	DPA-4300
drawing	CU-103	rev.	
sheet	of	sheets	
file			



- SOIL EROSION AND SEDIMENTATION CONTROL GENERAL NOTES:**
- ALL VEGETATIVE AND STRUCTURAL EROSION CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE "ILLINOIS URBAN MANUAL".
  - MAINTENANCE AND REPLACEMENT OF EROSION CONTROL ITEMS, WHEN DIRECTED BY THE OWNER, SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT.
  - THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES AT LEAST EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER OR EQUIVALENT SNOWFALL. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF SAID MEASURES SHALL BE MADE IMMEDIATELY.
  - INSTALL ALL PERIMETER SILT FENCING PRIOR TO ANY CLEARING OR GRADING. ON-SITE SEDIMENT CONTROL MEASURES AS SHOWN AND SPECIFIED BY THIS EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE CONSTRUCTED AND FUNCTIONAL PRIOR TO INITIATING CLEARING, GRADING, STRIPPING, EXCAVATION OR FILLING ACTIVITIES ON THE SITE.
  - STORM WATERS FALLING ON THE ENTIRE SITE SHALL BE DIVERTED INTO THE DETENTION SWALES, PRIOR TO BEGINNING MASS EXCAVATION, THE CONTRACTOR SHALL CONSTRUCT DITCHES, SWALES, SEDIMENTATION TRAPS AND SILTATION CONTROL MEASURES AS REQUIRED TO INTERCEPT SURFACE WATERS BEFORE THEY FLOW ONTO ADJACENT PROPERTY AND CONVEY THEM TO THE DETENTION SWALES.
  - DISTURBED AREA SHALL BE STABILIZED BY SEEDING AT A MINIMUM WITHIN SEVEN (7) DAYS OF COMPLETION OF DISTURBANCE UNLESS THE AREA WILL BE DISTURBED WITHIN FOURTEEN (14) DAYS AND GRASS SOWN AS NECESSARY TO RE-ESTABLISH VEGETATION FOR CONTROL OF SILTATION AND SOIL EROSION.
  - TEMPORARY SEED MIXTURE SHALL BE APPLIED AT 64 LBS/ACRE.
  - INLET PROTECTION SHALL BE INSTALLED UNDER THE GRATING OF EACH DRAINAGE STRUCTURE.
  - TOPSOIL STOCKPILES SHALL BE SEED WITHIN SEVEN (7) CALENDAR DAYS OF COMPLETION FOR EROSION CONTROL UNLESS THEY WILL BE DISTURBED WITHIN FOURTEEN (14) CALENDAR DAYS. ALL SOIL STORAGE PILES SHALL BE PROTECTED FROM EROSION WITH SILT FENCE ON THE DOWN SLOPE SIDE OF THE PILES.
  - DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO DETENTION SWALES. DEWATERING DIRECTLY INTO FIELD TILES OR STORMWATER STRUCTURES IS PROHIBITED.
  - WATER PUMPED DURING CONSTRUCTION OPERATION SHALL BE FILTERED.
  - DUST CONTROL SHALL BE PERFORMED ON A DAILY BASIS USING WATER DISPENSED FROM A TRUCK MOUNTED TANK WITH STANDARD DISCHARGE HEADER TO PROVIDE A UNIFORM RATE OF APPLICATION.
  - TEMPORARY GRAVEL CONSTRUCTION ENTRANCES SHALL BE MAINTAINED ADJUSTED OR RELOCATED AS NECESSARY TO PREVENT SEDIMENT FROM BEING TRACKED ONTO PUBLIC ROADWAYS. ANY SEDIMENT REACHING A PUBLIC ROAD SHALL BE REMOVED BY SHOVELING OR STREET CLEANING BEFORE THE END OF EACH WORKING DAY.
  - ANY LOOSE MATERIAL THAT IS DEPOSITED IN THE FLOW LINE OF ANY GUTTER OR DRAINAGE STRUCTURE DURING CONSTRUCTION OPERATIONS SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY.
  - OVERLAND FLOW SHALL BE DIRECTED TO THE DETENTION SWALES PRIOR TO LEAVING THE SITE.
  - ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH ALL JURISDICTIONAL GOVERNMENTAL AGENCY REQUIREMENTS WITHIN 30 DAYS OF FINAL STABILIZATION.

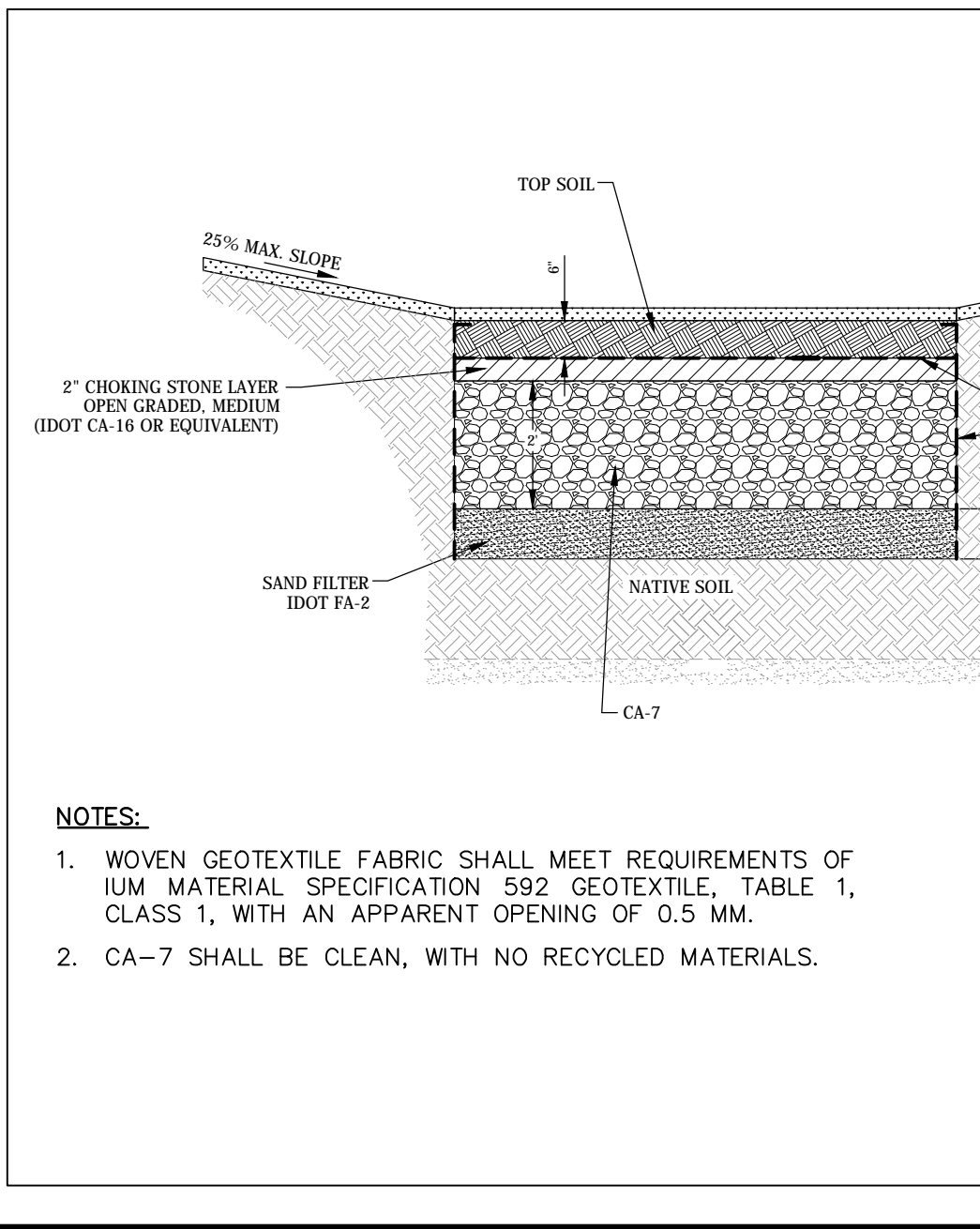
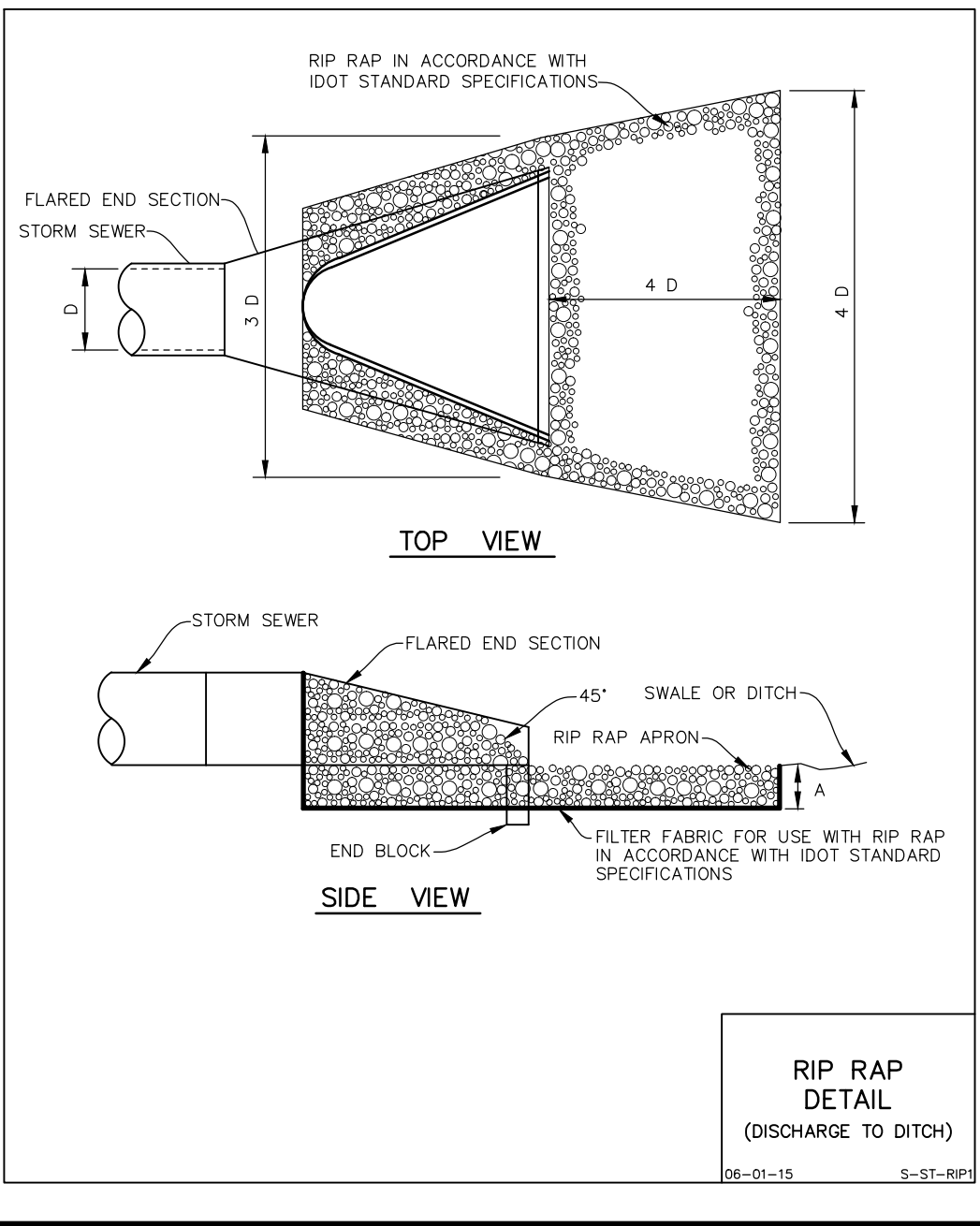
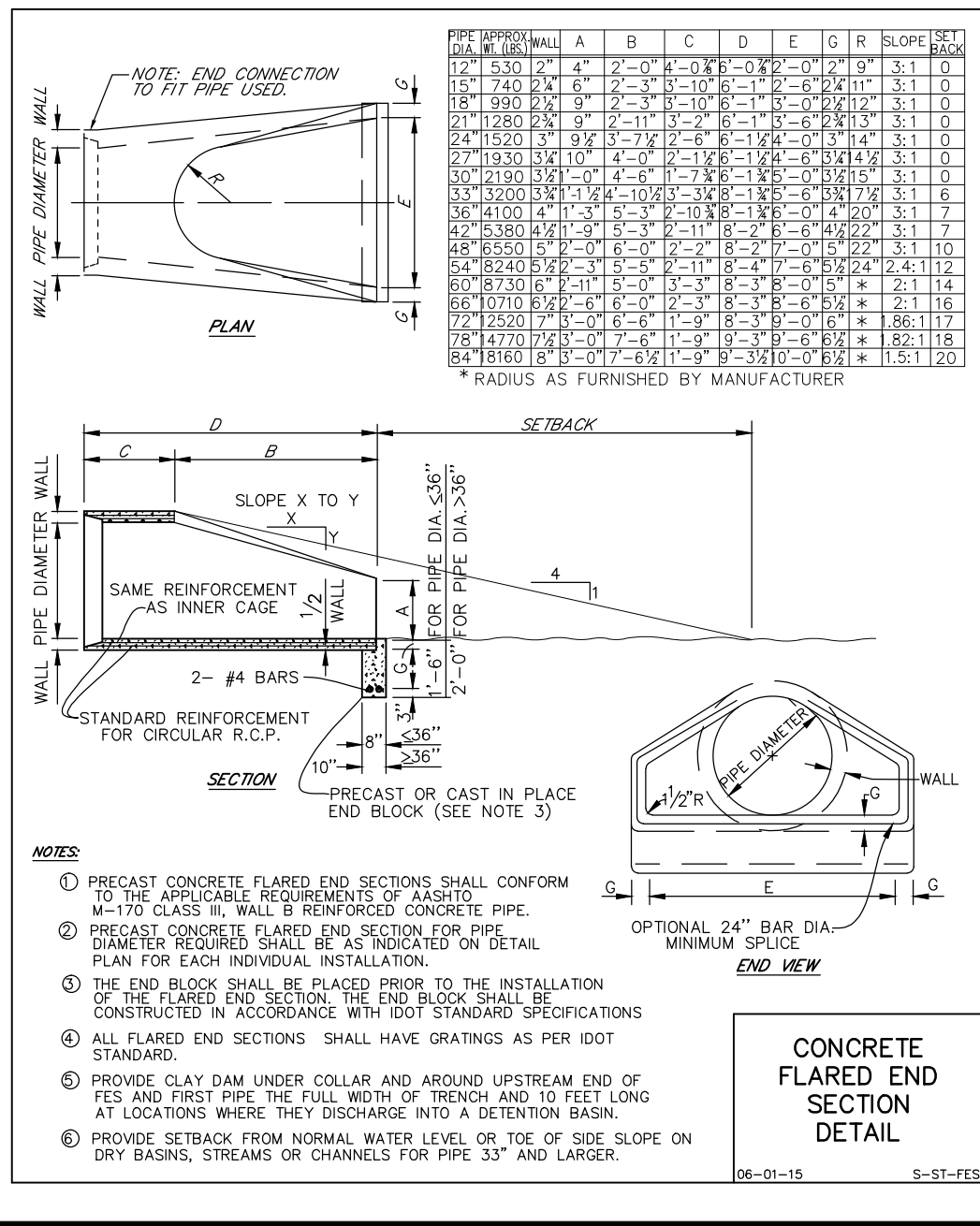


RIP-RAP						
PIPE DIAMETER (IN.)	STONE RIP-RAP				BEDDING	
	QUALITY DESIGNATION	GRADATION NUMBER	MINIMUM THICKNESS (IN.)	MINIMUM WEIGHT (LB)	AVERAGE WEIGHT (LB)	MINIMUM THICKNESS (IN.)
12"	B	3	8"	5	1-50	4.5"
15"	B	3	8"	5	1-50	4.5"
18"	B	4	16"	6"	1-150	6"
21"	B	4	16"	7"	1-150	6"
24"	B	4	16"	8"	1-150	6"
27"	B	4	16"	9"	1-150	6"
30"	B	4	16"	10"	1-150	6"
36"	B	5	22"	12"	3-400	8"
42"	B	5	22"	14"	3-400	8"
48"	B	6	26"	16"	6-600	10"
54"	B	6	26"	18"	6-600	10"
60"	B	6	26"	20"	6-600	10"
72"	B	6	26"	24"	6-600	10"

**NOTE:**  
1. FOR PIPE LARGER THAN 72" A SPECIAL DESIGN OF RIP-RAP OR APRON IS REQUIRED.  
2. REFER TO I.D.O.T. SPECIFICATIONS AND STANDARDS FOR BEDDING GRADATION.

**STONE RIP-RAP DETAIL**

06-01-15 S-ST-RP2



no.	date	by	ckd	description
A	03/18/16	AB	BQ	ISSUED FOR 80% REVIEW
B	04/07/16	KS	DB	ISSUED FOR PERMIT REVIEW
C	04/15/16	AB	BQ	ISSUED FOR BID
D	05/19/16	KS	DB	PER CITY REVIEW
E	06/01/16	AB	BQ	ISSUED FOR ADDENDUM NO. 1

**Manhard CONSULTING LTD.**  
700 Spangier Drive, Lombard, IL 60148  
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Fax: 630.881.8888  
www.manhard.com  
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Construction Managers • Landscape Architects • Planners

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LICENSEE NO. 184-001310

date	detailed
designed	checked

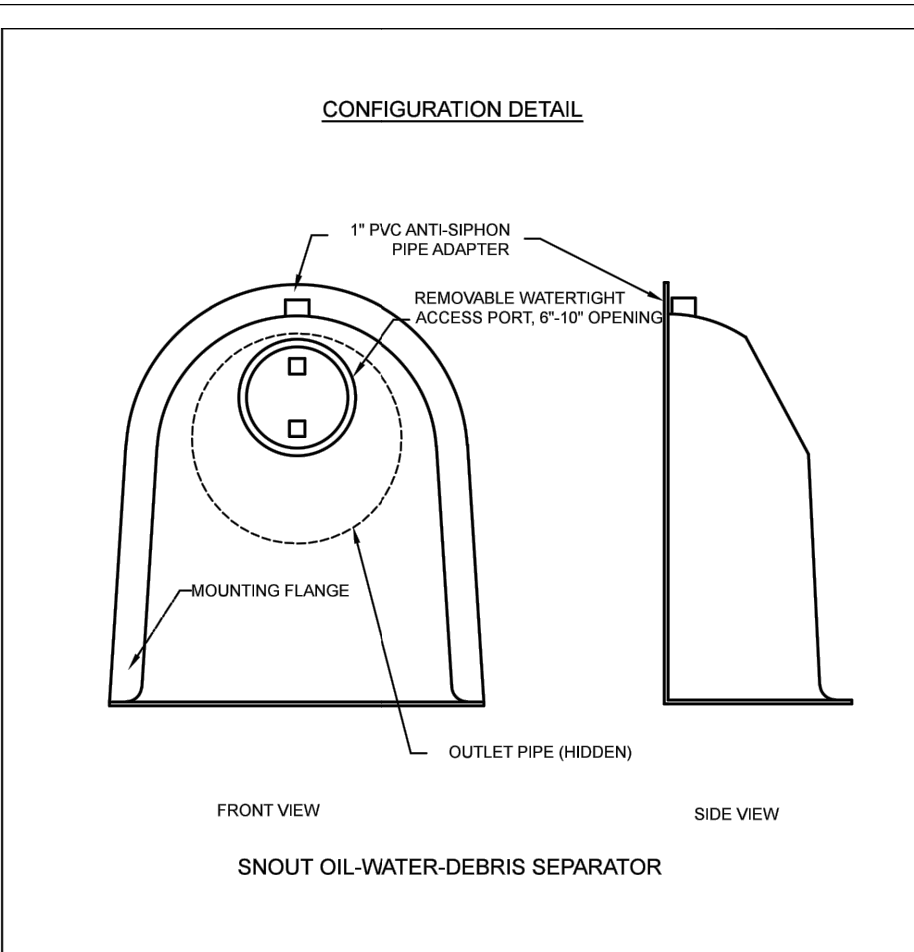
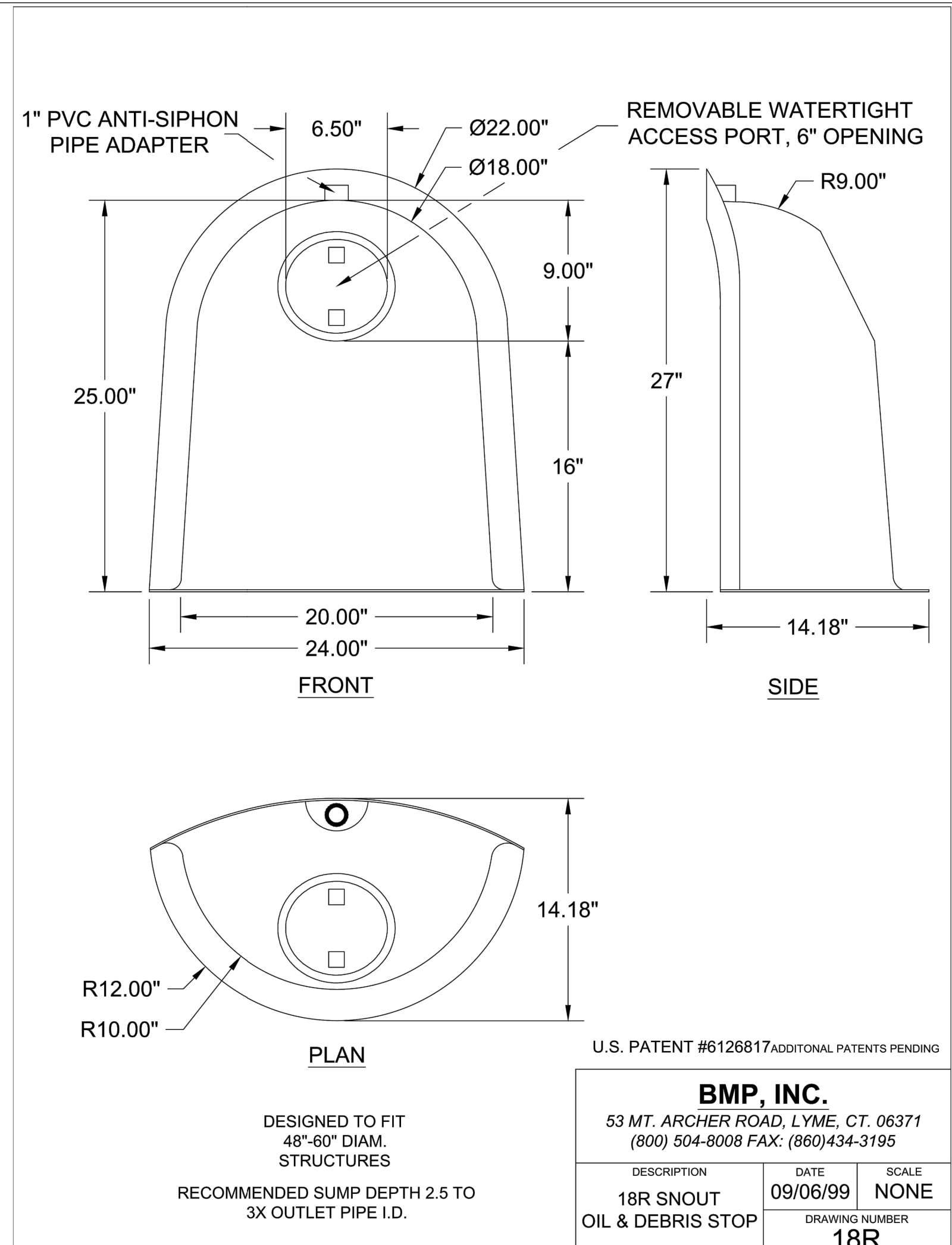
**DUPAGE AIRPORT AUTHORITY**  
DuPage, Illinois

**WEST END PERIMETER ROADWAY**  
DRAINAGE, SOIL EROSION  
SEDIMENT CONTROL DETAILS

project	88849	contract	DPA-4300
drawing	CU-202	rev.	

sheet of sheets  
file





**NOTES:**

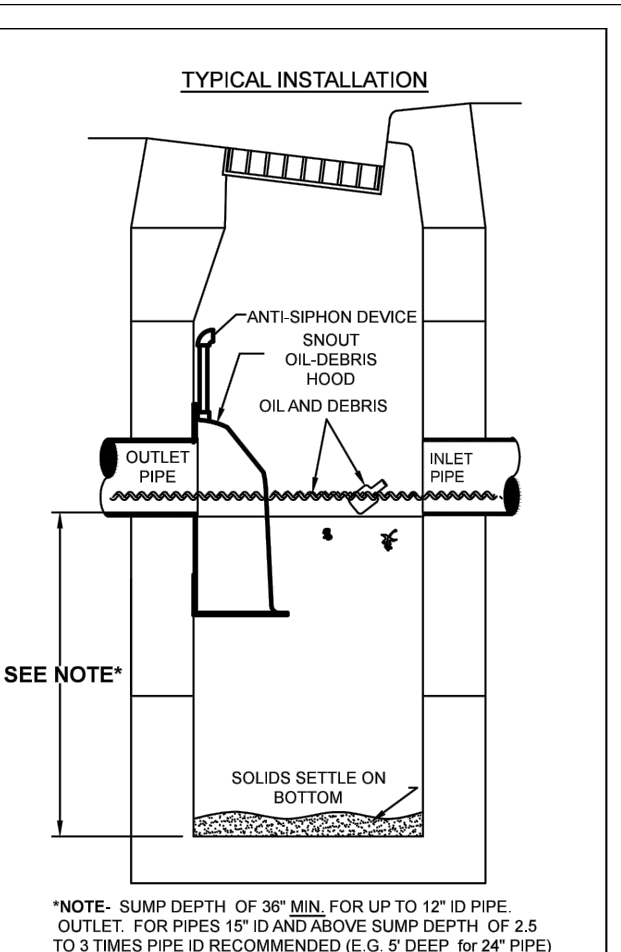
- ALL HOODS AND TRAPS FOR CATCH BASINS AND WATER QUALITY STRUCTURES SHALL BE AS MANUFACTURED BY: BEST MANAGEMENT PRODUCTS, INC. 53 MT. ARCHER RD. LYME, CT 06371 (860) 434-0277, (860) 434-3195 FAX TOLL FREE: (800) 504-8008 OR (888) 434-0277 WEB SITE: www.bmpinc.com OR PRE-APPROVED EQUAL.
- ALL HOODS SHALL BE CONSTRUCTED OF A GLASS REINFORCED RESIN COMPOSITE WITH ISO GEL COAT EXTERIOR FINISH WITH A MINIMUM 0.125" LAMINATE THICKNESS.
- ALL HOODS SHALL BE EQUIPPED WITH A WATERTIGHT ACCESS PORT, A MOUNTING FLANGE, AND AN ANTI-SIPHON VENT PIPE AND ELBOW AS DRAWN. (SEE CONFIGURATION DETAIL).
- THE SIZE AND POSITION OF THE HOOD SHALL BE DETERMINED BY OUTLET PIPE SIZE AS PER MANUFACTURER'S RECOMMENDATION (SNOUT SIZE ALWAYS LARGER THAN PIPE SIZE).
- THE BOTTOM OF THE HOOD SHALL EXTEND DOWNWARD A MINIMUM DISTANCE EQUAL TO 1/2 THE OUTLET PIPE DIAMETER WITH A MINIMUM DISTANCE OF 6" FOR PIPES <12" I.D.
- THE ANTI-SIPHON VENT SHALL EXTEND ABOVE HOOD BY MINIMUM OF 3" AND A MAXIMUM OF 12" ACCORDING TO STRUCTURE CONFIGURATION.
- THE SURFACE OF THE STRUCTURE WHERE THE HOOD IS MOUNTED SHALL BE FINISHED SMOOTH AND FREE OF LOOSE MATERIAL AND PIPE SHALL BE FINISHED FLUSH TO WALL.
- ALL STRUCTURE JOINTS SHALL BE WATERTIGHT.
- THE HOOD SHALL BE SECURELY ATTACHED TO STRUCTURE WALL WITH 3" STAINLESS STEEL BOLTS AND OIL-RESISTANT GASKET AS SUPPLIED BY MANUFACTURER. (SEE INSTALLATION DETAIL).
- INSTALLATION INSTRUCTIONS SHALL BE FURNISHED WITH MANUFACTURER SUPPLIED INSTALLATION KIT. INSTALLATION KIT SHALL INCLUDE: A. INSTALLATION INSTRUCTIONS B. PVC ANTI-SIPHON VENT PIPE AND ADAPTER C. OIL-RESISTANT CRUSHED CELL FOAM GASKET WITH PSA BACKING D. 3" STAINLESS STEEL BOLTS E. ANCHOR SHIELDS

U.S. PATENT #6126817 ADDITIONAL PATENTS PENDING

**BMP, INC.**  
53 MT. ARCHER ROAD, LYME, CT. 06371  
(800) 504-8008 FAX: (860) 434-3195

DESCRIPTION	DATE	SCALE
18R SNOUT OIL & DEBRIS STOP	09/06/99	NONE
DRAWING NUMBER	18R	

US Patent # 6126817, 7951294, 7857966, 8512556  
Canada Patent # 2265146, 2690156, 2690155 others pending



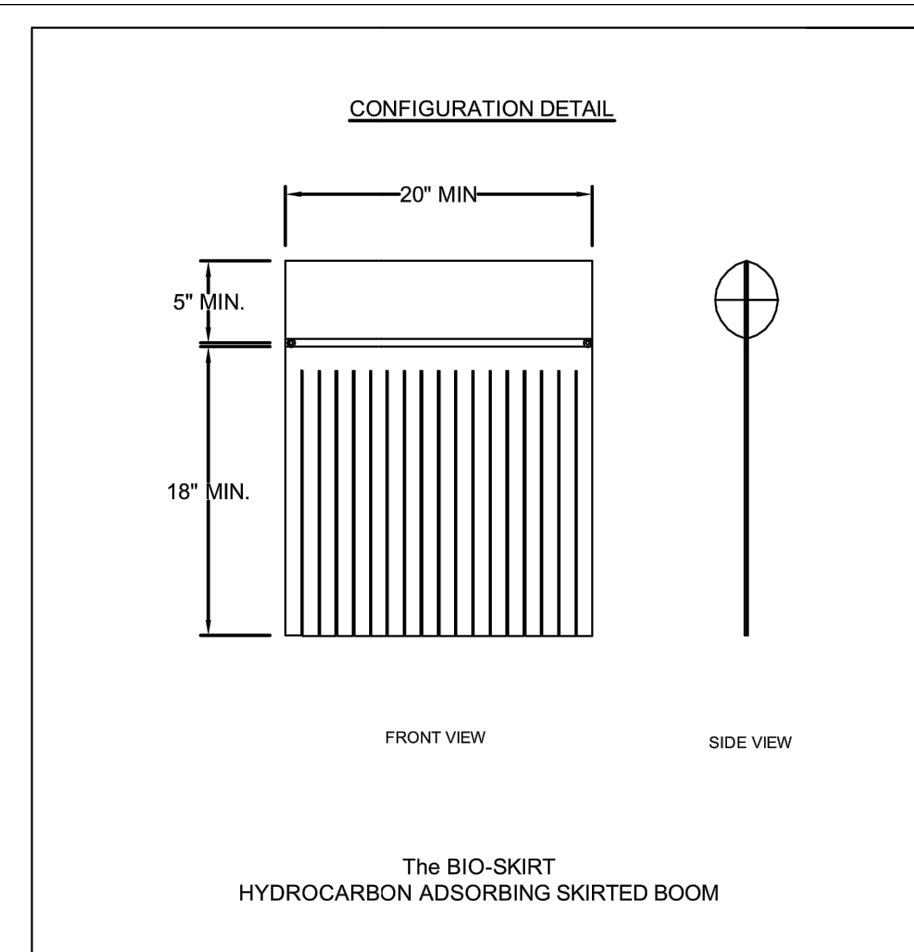
**INSTALLATION DETAIL**

**INSTALLATION NOTE:**  
POSITION HOOD SUCH THAT BOTTOM FLANGE IS A DISTANCE OF 1/2 OUTLET PIPE DIAMETER (MIN.) BELOW THE PIPE INVERT. MINIMUM DISTANCE FOR PIPES <12" I.D. IS 6".

**DETAIL A:** ANCHOR SHIELD, STAINLESS BOLT, EXPANSION CONE (NARROW END OUT)

**HOOD SPECIFICATION FOR CATCH BASINS AND WATER QUALITY STRUCTURES**

DESCRIPTION	DATE	SCALE
OIL-DEBRIS HOOD SPECIFICATION AND INSTALLATION (TYPICAL)	09/08/15	NONE
DRAWING NUMBER	SP-SN	

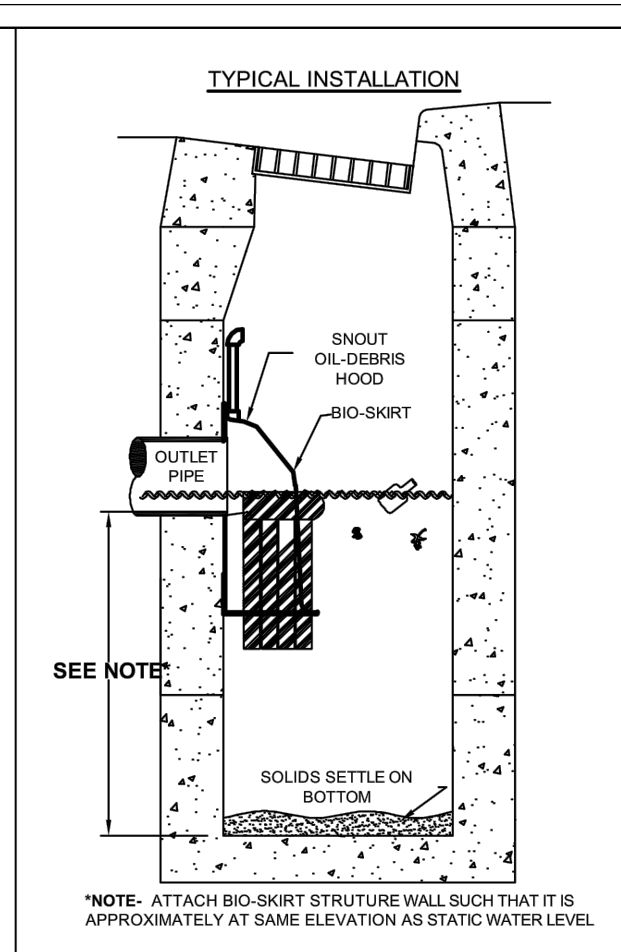


**NOTES:**

- All new and/or existing catch basins or water quality structures shall be outfitted with the Bio-Skirt(R) Hydrocarbon reducing skirted boom as manufactured by: BEST MANAGEMENT PRODUCTS, INC. 53 MT. ARCHER RD. LYME, CT 06371 (860) 434-0277, (860) 434-3195 FAX TOLL FREE: (800) 504-8008 OR (888) 434-0277 WEB SITE: www.bmpinc.com or pre-approved equal.
- The skirted boom shall be comprised of an upper boom portion that is an adsorbent fabric covered floating boom of 5" minimum diameter with an integral lower skirt portion comprised of fabric tendrils of an 18" minimum length that hang beneath the boom.
- All booms shall be made from geo-textile quality needle-woven filtration fabric manufactured from 100% recycled select fibers with a .125" minimum thickness.
- All fabric shall be protected with a covalently surface bonded non-leaching antimicrobial agent and booms shall display a tag indicating "Antimicrobial" which preserves the service life of the unit.
- The Bio-Skirt shall be positioned in front of the exit pipe and SNOUT/Oil-Debris Separator if so equipped (the preferred application of the Bio-Skirt is to be deployed with the SNOUT).
- The skirted boom shall be securely attached to the structure wall on each side of the exit pipe with 3/8" stainless steel bolts, stainless steel tabs, plastic-composite hooks and elastomeric cord as found in manufacturer supplied installation kit.
- For applications where multiple Bio-Skirts are deployed together for larger SNOUTs (e.g. on 24" and larger SNOUTs per schedule below), connect skirts grommet to grommet with hooks and cord as supplied in the installation kit.

Typical Deployment Schedule:  
12-18" SNOUT: One Bio-Skirt  
24-30" SNOUT: Two Bio-Skirts  
36-50" SNOUT: Three Bio-Skirts  
72" and up, Call 800-504-8008 for guidance.

SNOUT US Patent # 6126817



**INSTALLATION DETAIL**

**INSTALLATION NOTE:**  
PLACE ANCHORS SUCH THAT POSITION OF BOTTOM OF BOOM-PORTION OF BIO-SKIRT IS AT SAME ELEVATION AS PIPE INVERT. TENDRILS TO HANG DOWNWARD.

**DETAIL A:** ANCHOR SHIELD, STAINLESS BOLT, EXPANSION CONE (NARROW END OUT)

**OIL ADSORBENT SPECIFICATION FOR CATCH BASINS AND WATER QUALITY STRUCTURES**

DESCRIPTION	DATE	SCALE
BIO-SKIRT (TM) SPECIFICATION AND INSTALLATION (TYPICAL)	10/29/14	NONE
DRAWING NUMBER	SP-BIO	

no.	date	by	ckd	description
D	05/19/16	KS	DB	PER CITY REVIEW
E	06/01/16	AB	BQ	ISSUED FOR ADDENDUM NO. 1



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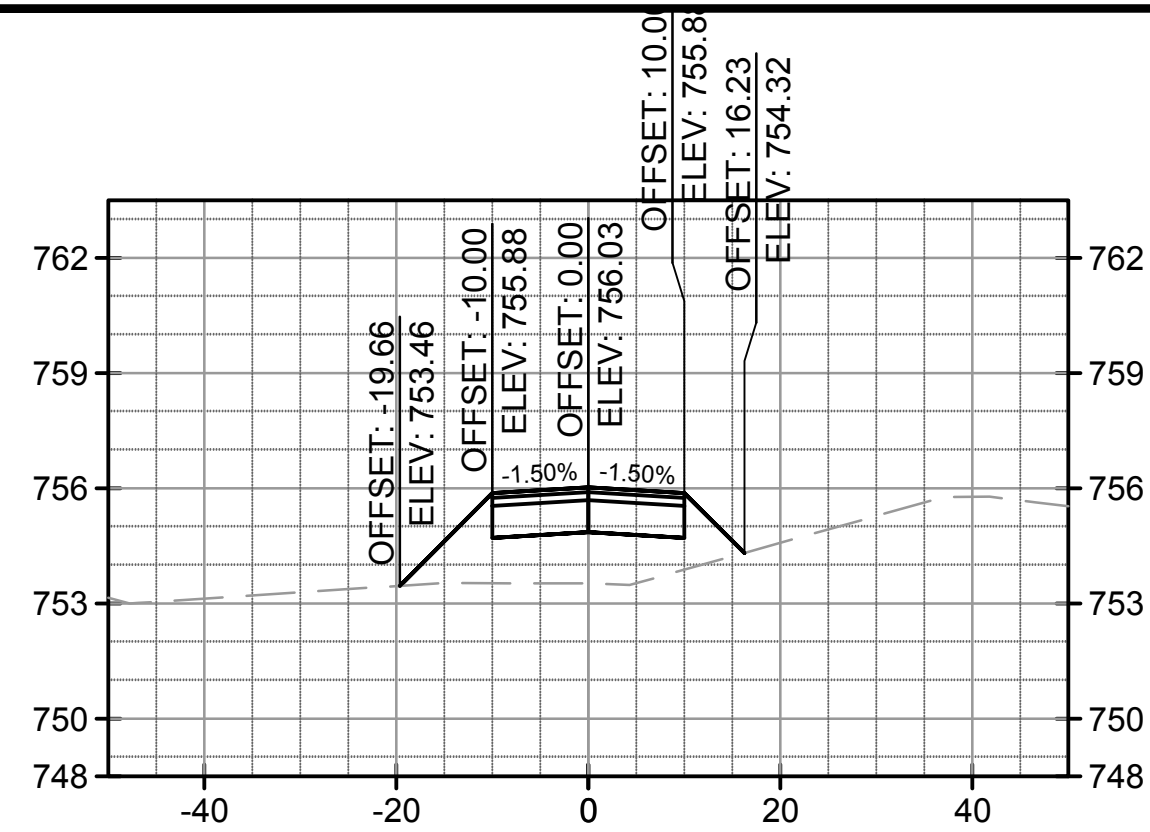
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designed	checked



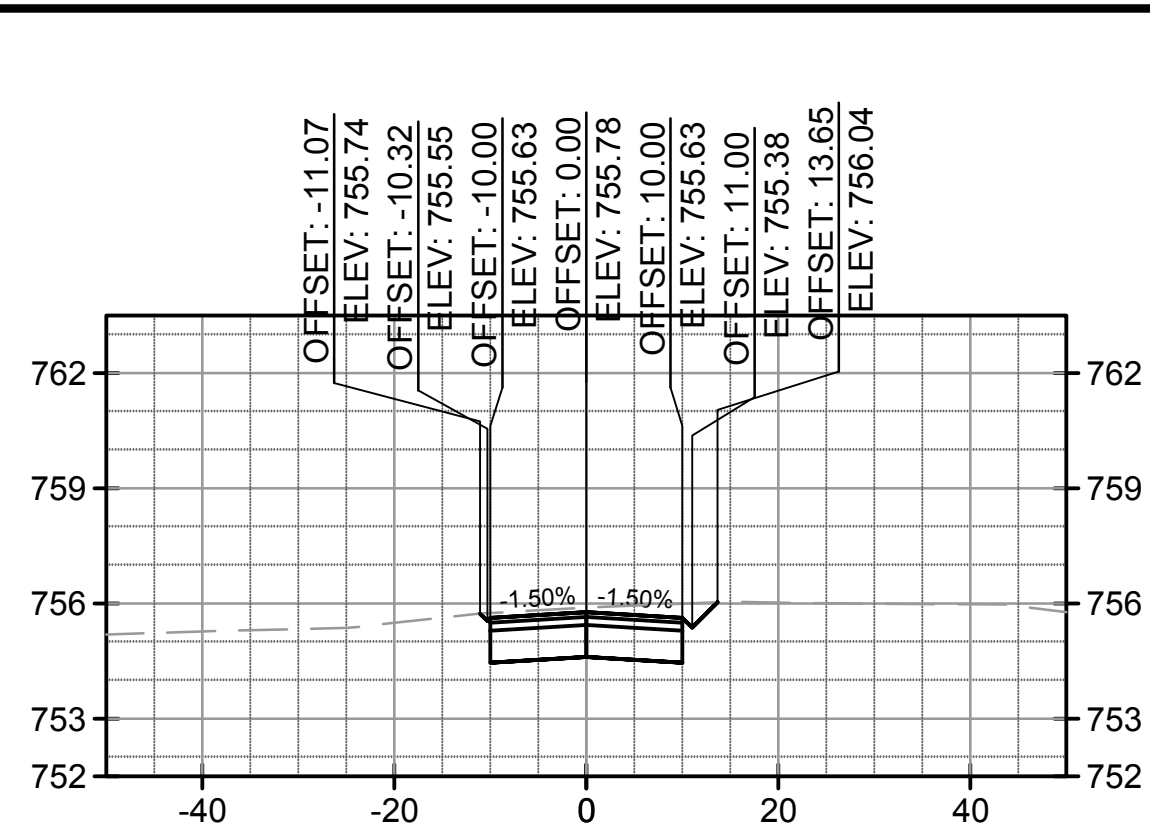
**WEST END PERIMETER ROADWAY**  
DRAINAGE, SOIL EROSION  
SEDIMENT CONTROL DETAILS

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drawing	<b>CU-204</b>	rev.	
sheet	of	sheets	
file			

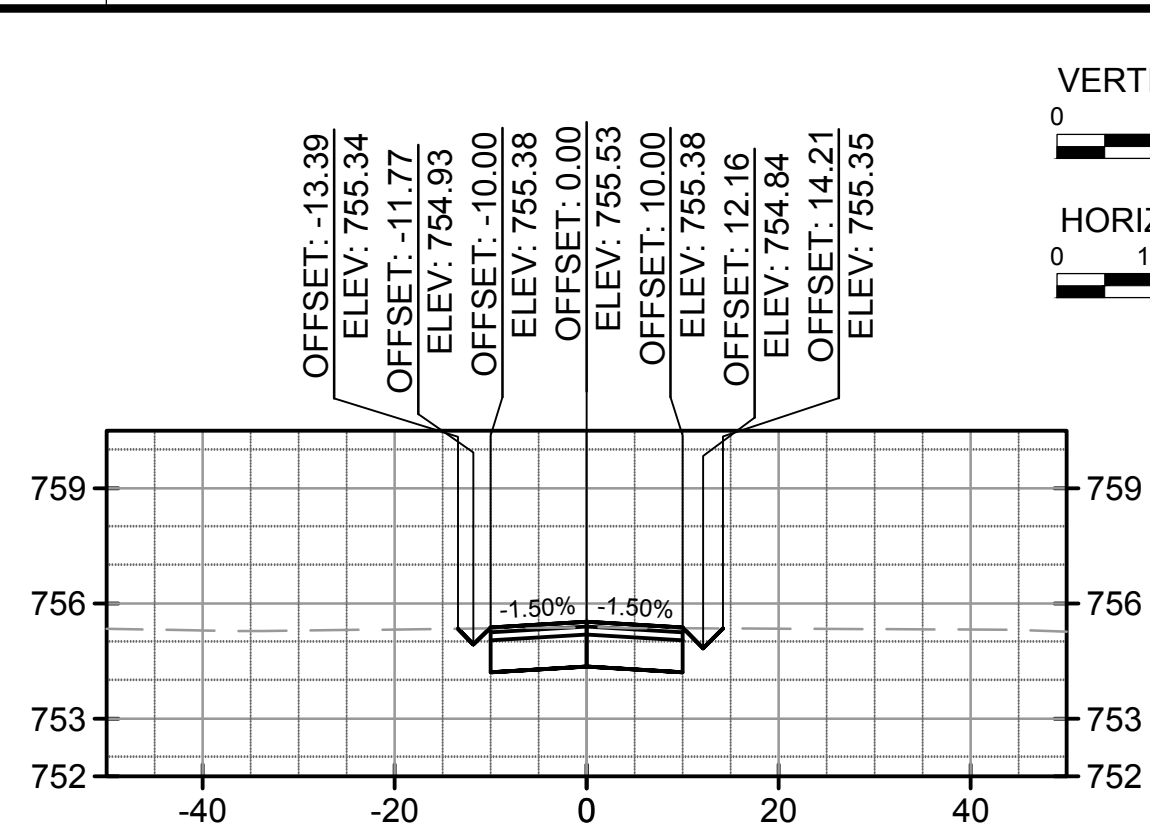
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Millimeters  
Inches



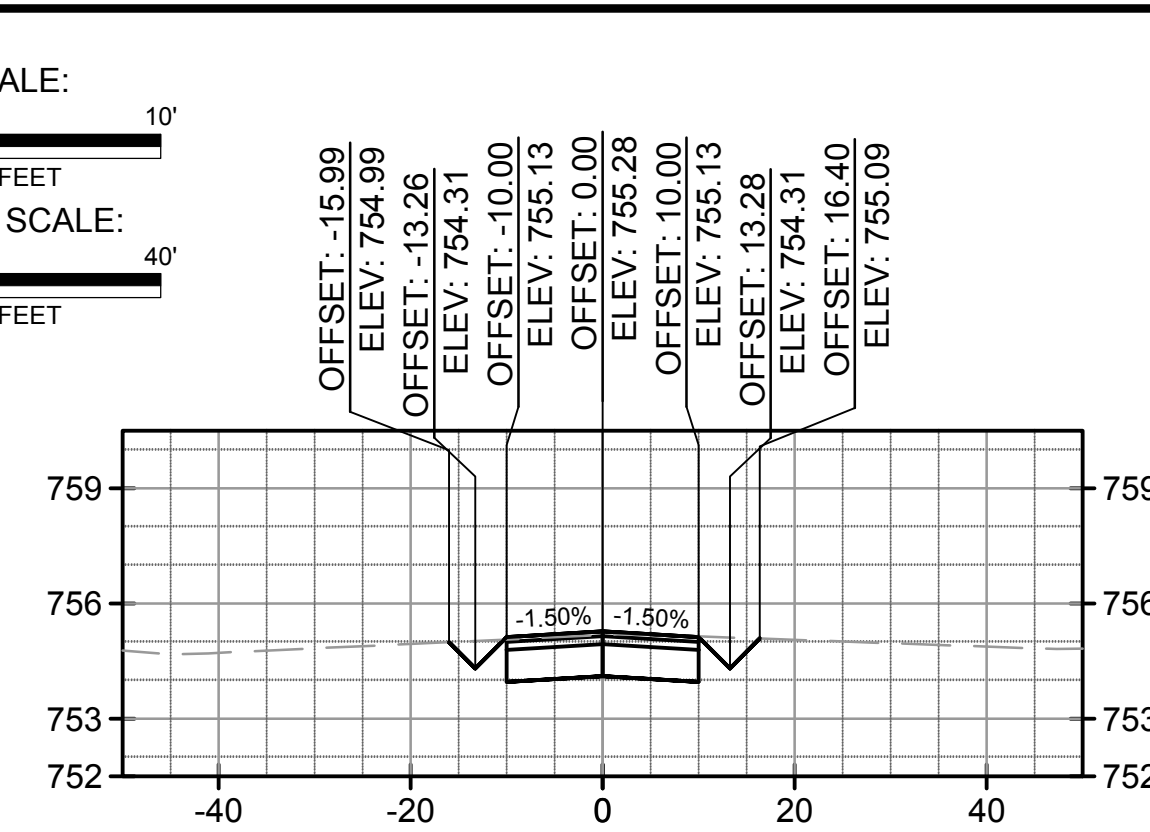
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Material Name	Area	Volume	Cumulative Volume
CUT	0.00	0.00	0.00
FILL	41.66	38.35	38.35



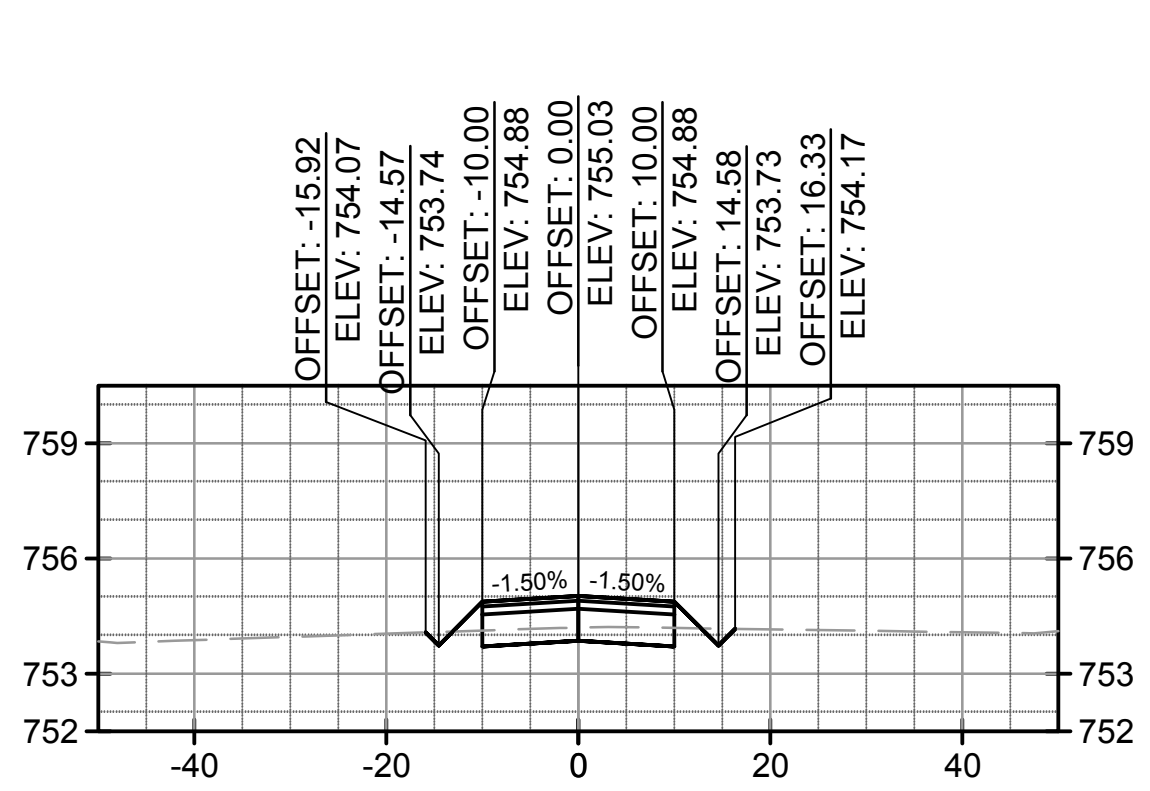
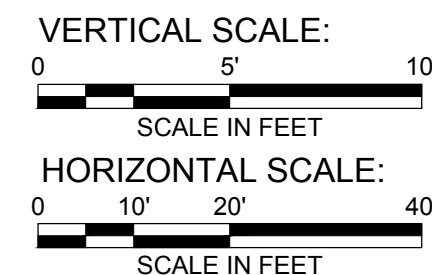
Material(s) at Station 11+00.00			
Material Name	Area	Volume	Cumulative Volume
CUT	28.56	26.49	26.49
FILL	0.00	38.39	76.73



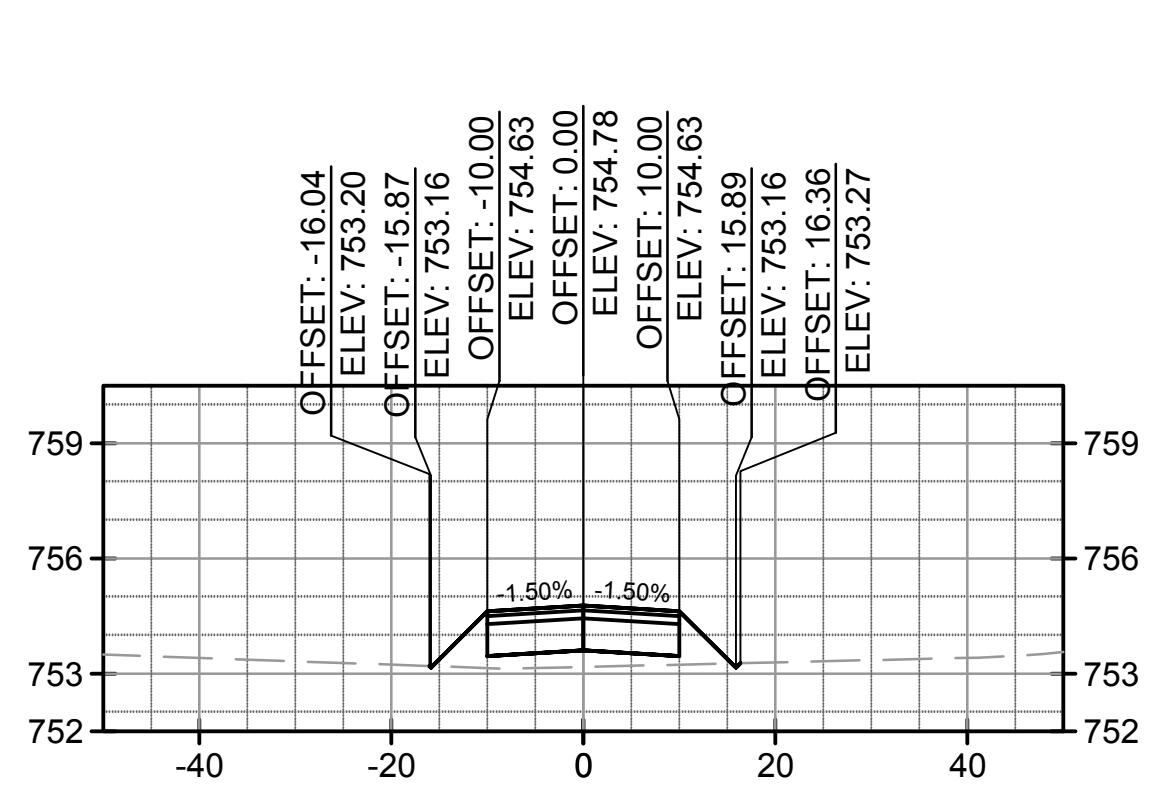
Material(s) at Station 11+50.00			
Material Name	Area	Volume	Cumulative Volume
CUT	23.45	48.08	74.57
FILL	0.00	0.00	76.74



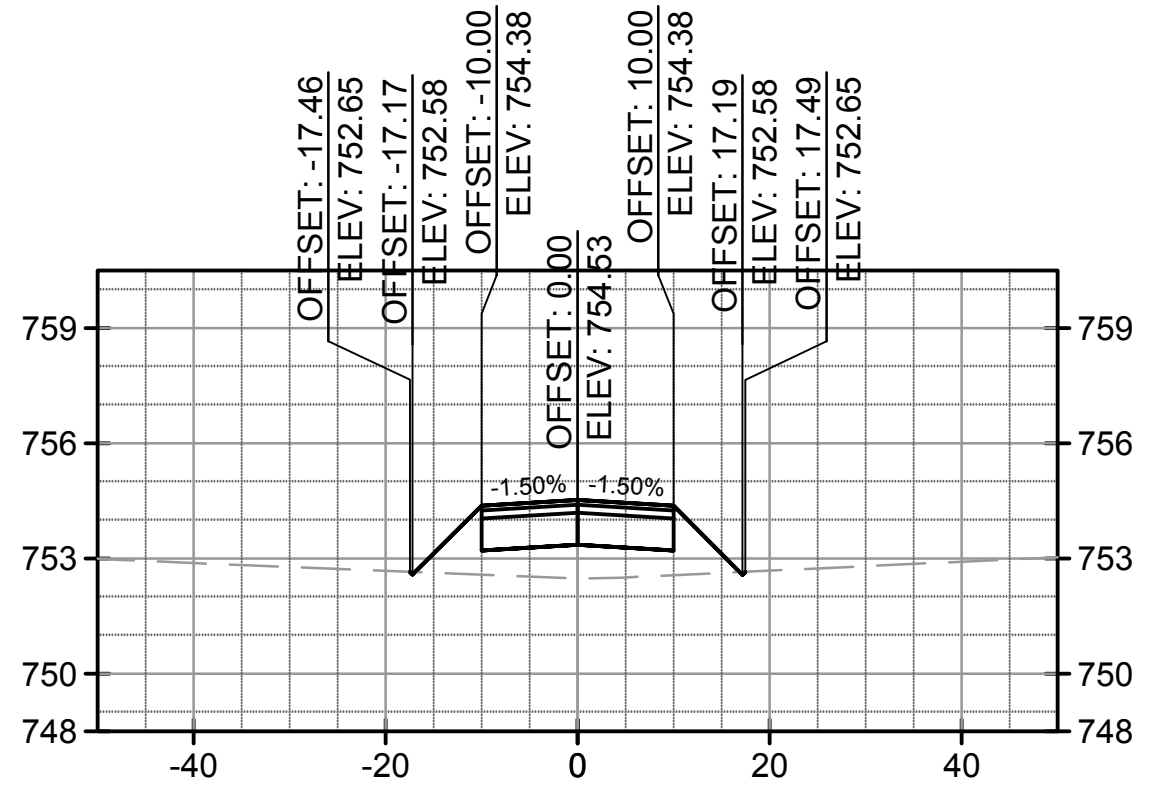
Material(s) at Station 12+00.00			
Material Name	Area	Volume	Cumulative Volume
CUT	27.02	46.67	121.25
FILL	0.01	0.01	76.75



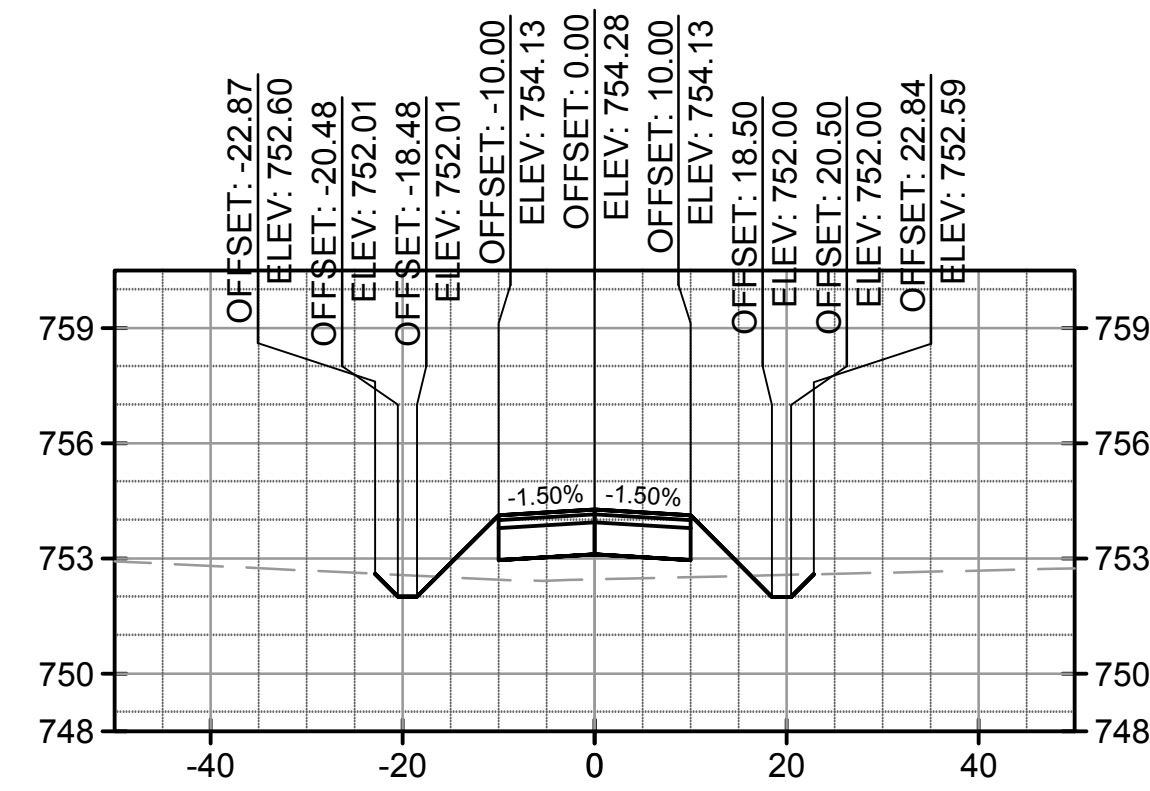
Material(s) at Station 12+50.00			
Material Name	Area	Volume	Cumulative Volume
CUT	9.39	33.71	154.96
FILL	2.12	1.97	78.72



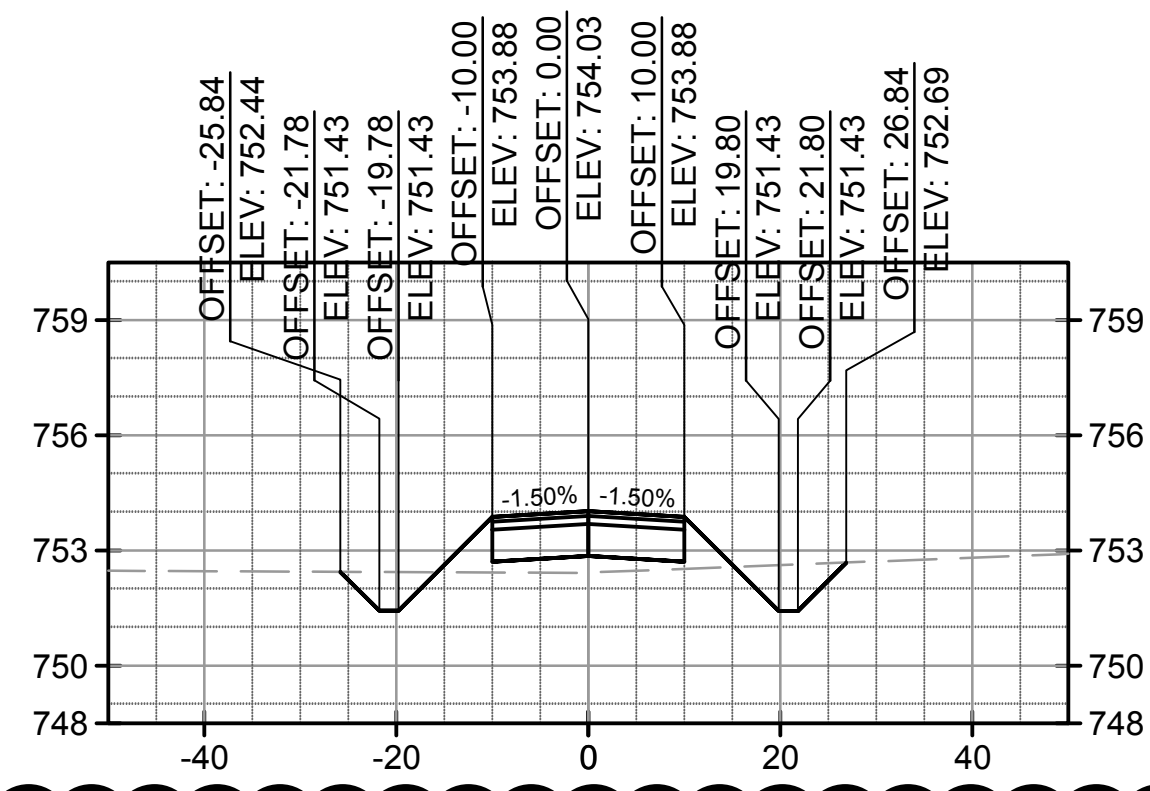
Material(s) at Station 13+00.00			
Material Name	Area	Volume	Cumulative Volume
CUT	0.06	8.75	163.71
FILL	15.01	15.87	94.59



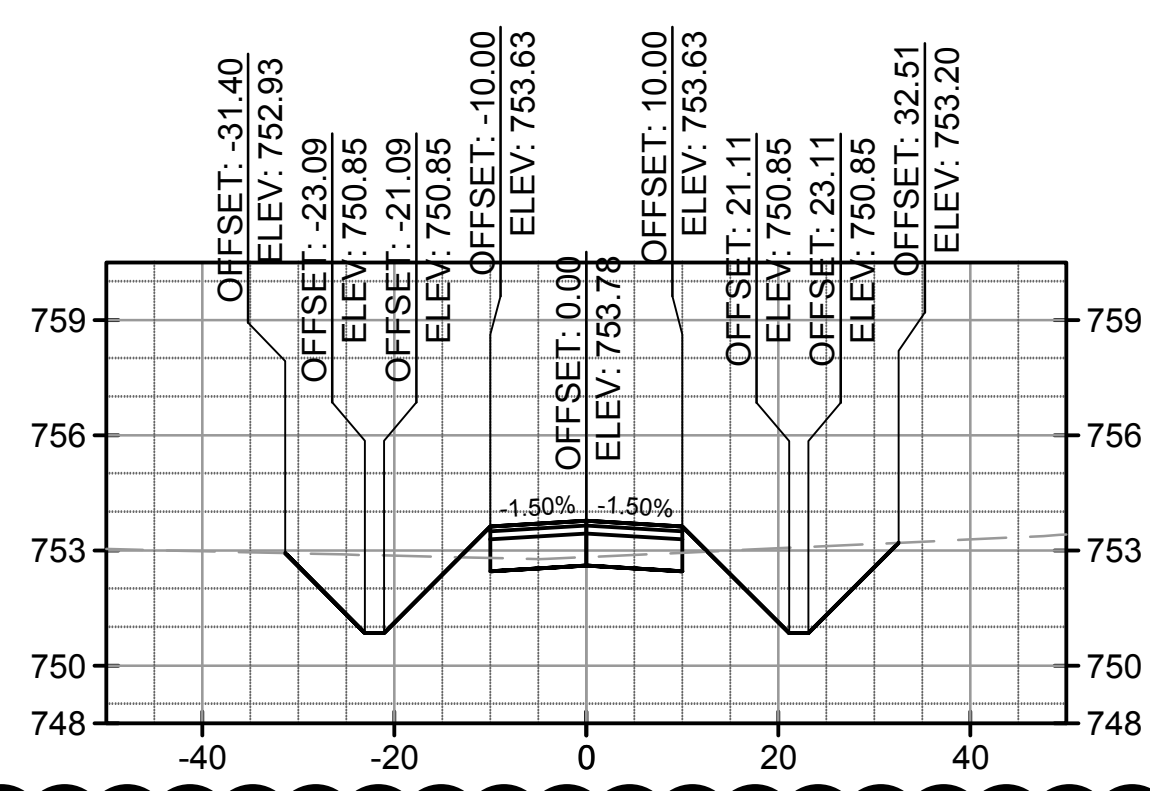
Material(s) at Station 13+50.00			
Material Name	Area	Volume	Cumulative Volume
CUT	0.04	0.09	163.80
FILL	27.68	39.53	134.13



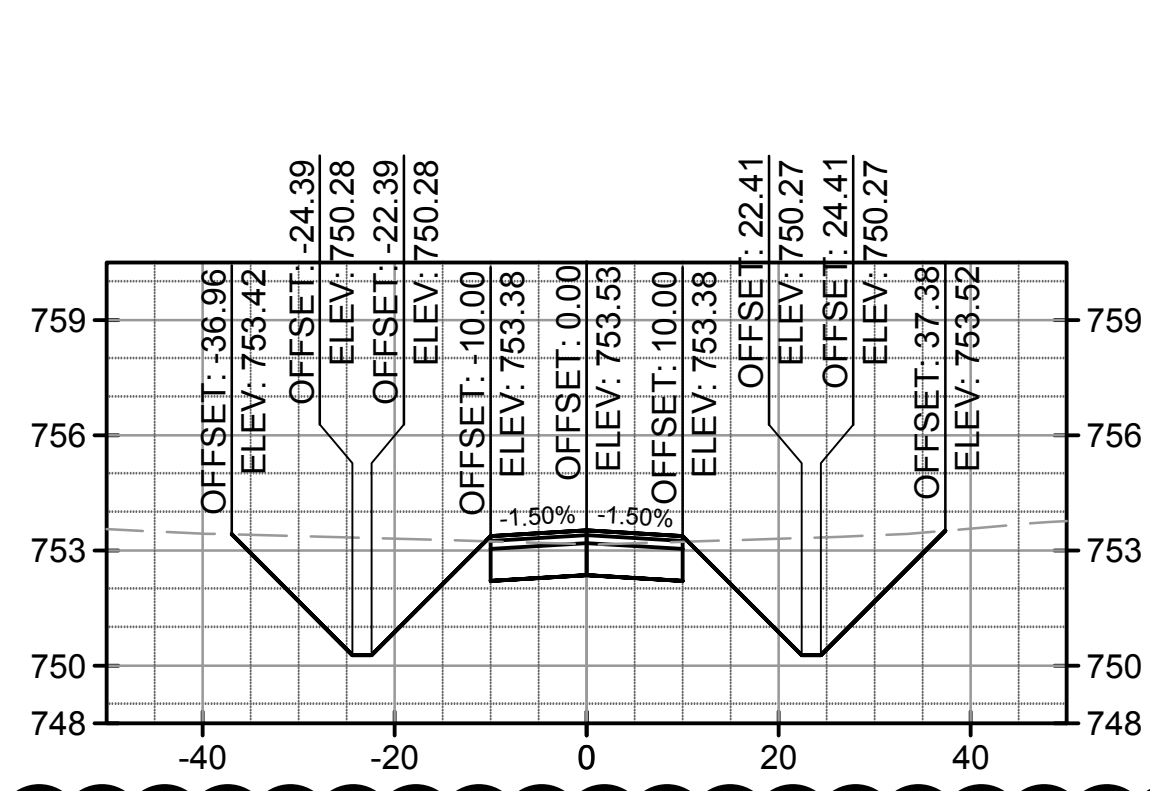
Material(s) at Station 14+00.00			
Material Name	Area	Volume	Cumulative Volume
CUT	4.78	4.46	168.26
FILL	21.83	45.84	179.97



Material(s) at Station 14+50.00			
Material Name	Area	Volume	Cumulative Volume
CUT	14.27	17.64	185.90
FILL	14.34	33.49	213.45



Material(s) at Station 15+00.00			
Material Name	Area	Volume	Cumulative Volume
CUT	51.03	60.46	246.36
FILL	2.21	15.33	228.78



Material(s) at Station 15+50.00			
Material Name	Area	Volume	Cumulative Volume
CUT	105.49	144.93	391.28
FILL	0.08	2.12	230.90



Material(s) at Station 16+00.00			
Material Name	Area	Volume	Cumulative Volume
CUT	211.11	220.98	666.38
FILL	0.00	0.04	230.98

no.	date	by	ckd	description
A	03/18/16	AB	BQ	ISSUED FOR 80% REVIEW
B	04/15/16	AB	BQ	ISSUED FOR BID
C	06/01/16	JY	BQ	ISSUED FOR ADDENDUM NO. 1

Scale For Microfining  
Millimeters

Inches

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date	detailed
JANUARY 25, 2016	A. BUDNIK
designed	checked
J. YAHYA	B. QUINLAN

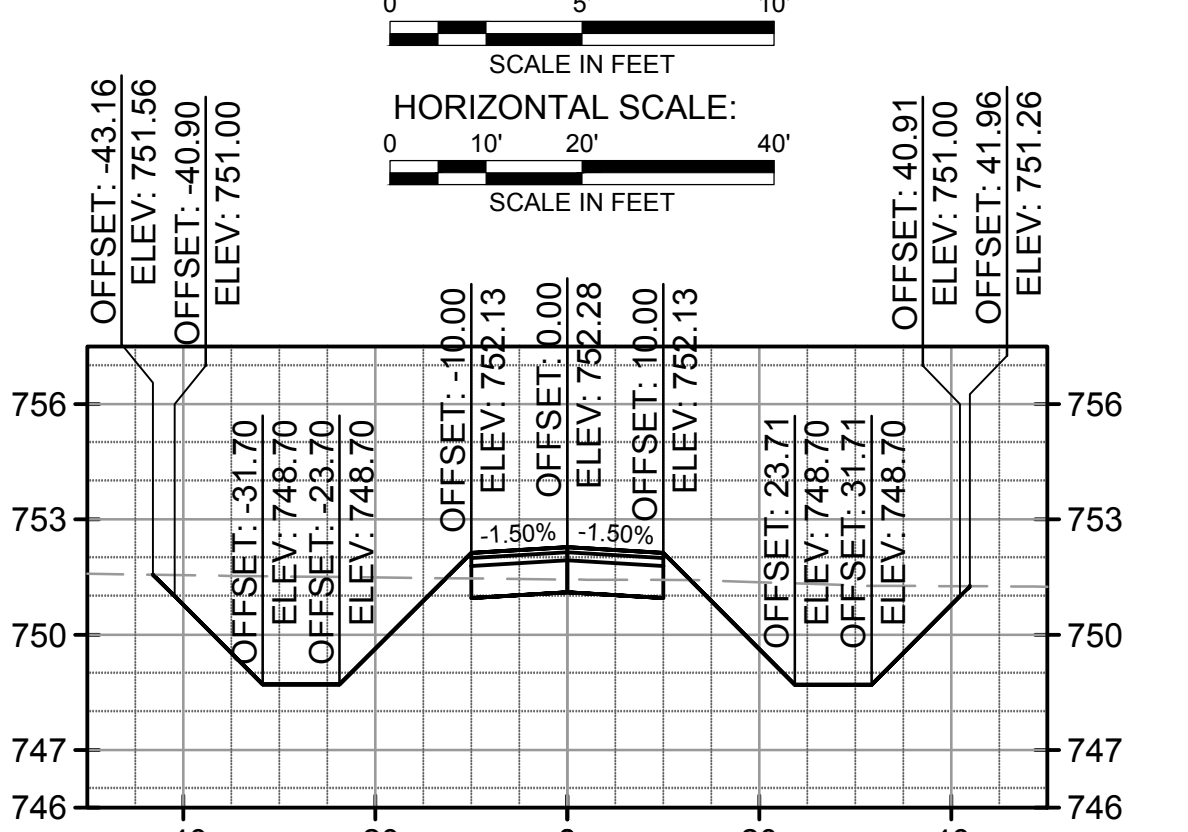
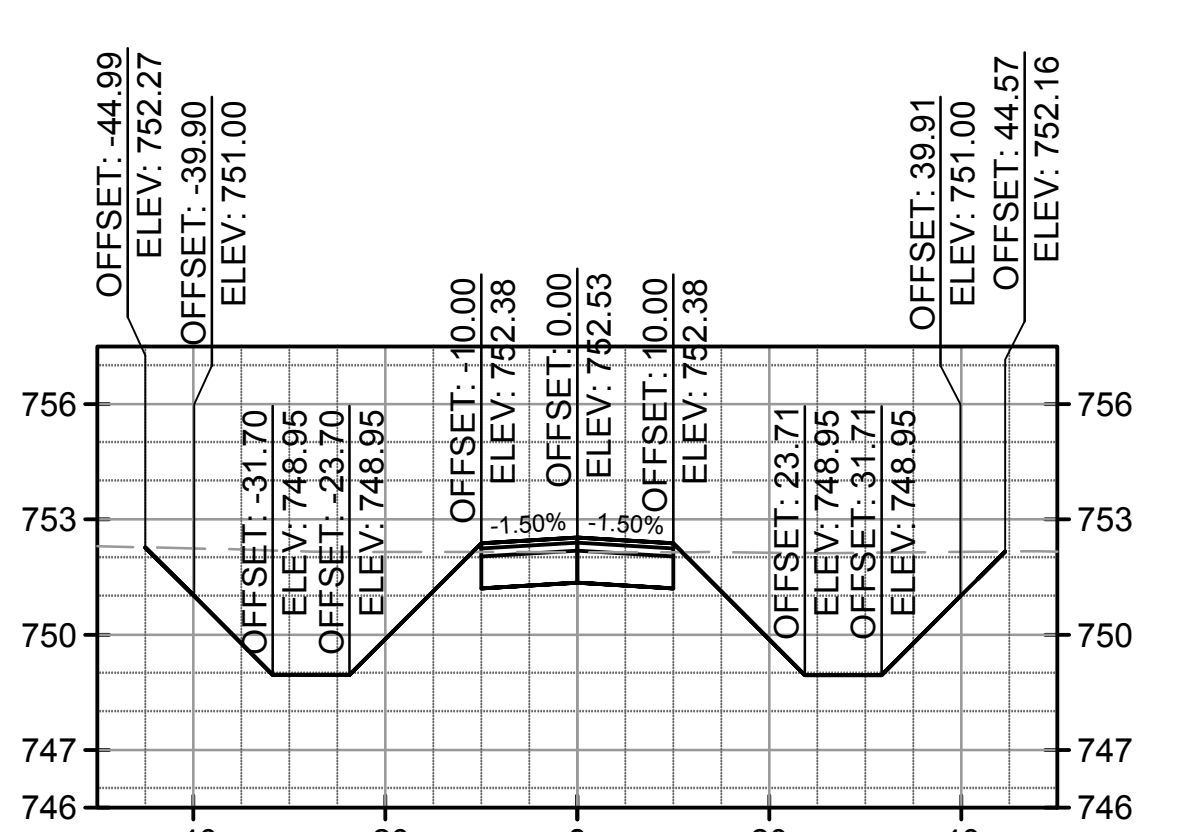
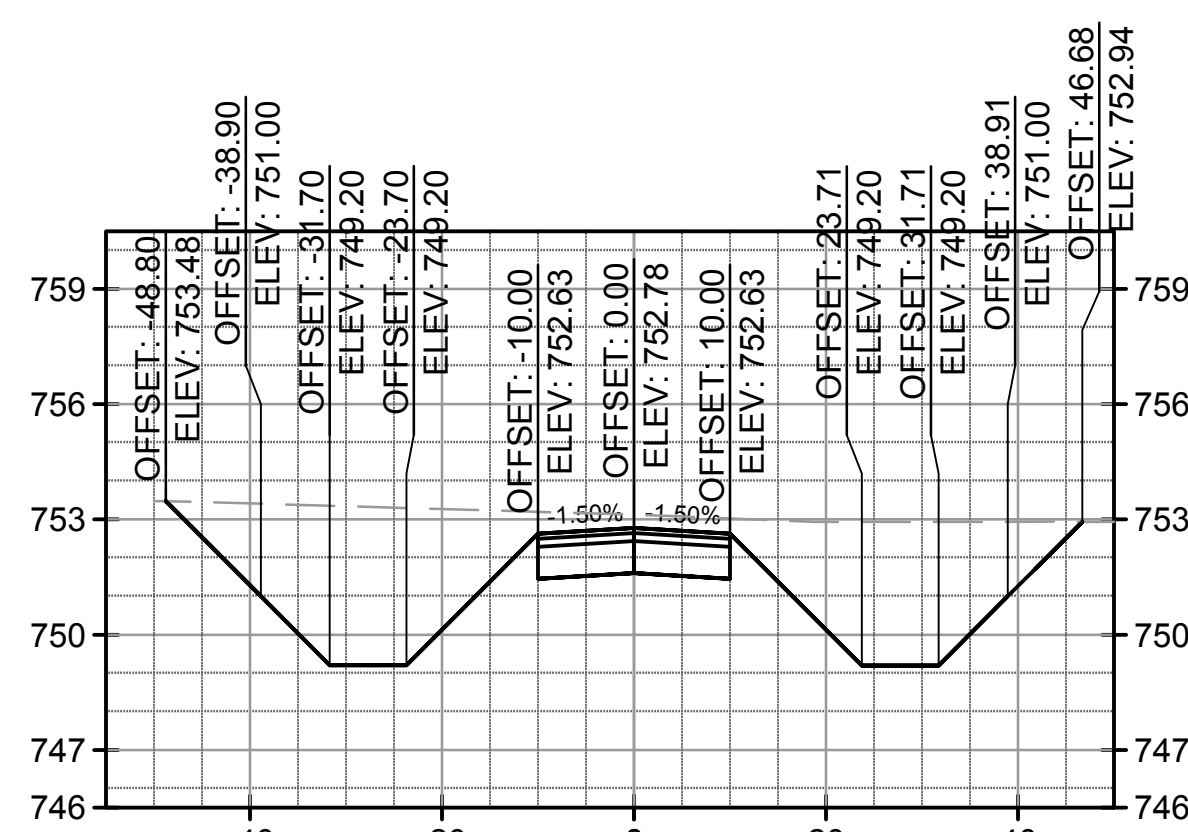
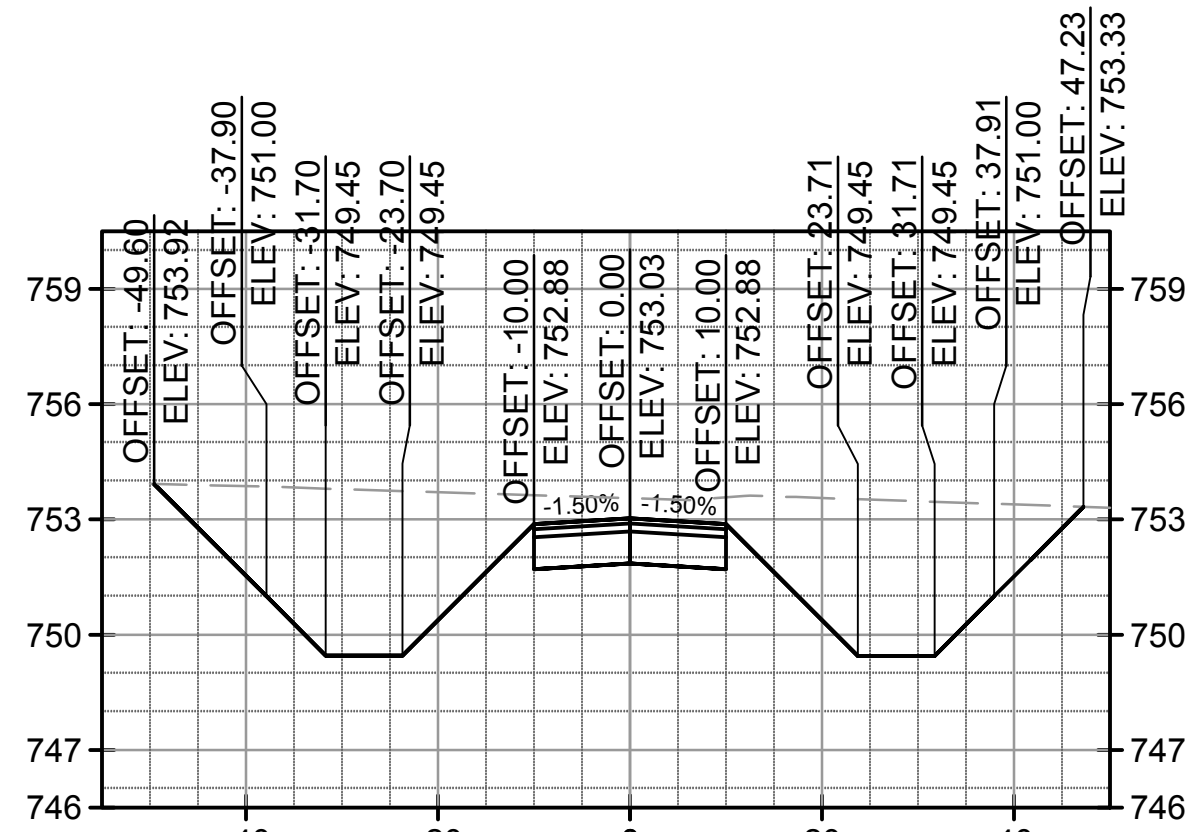
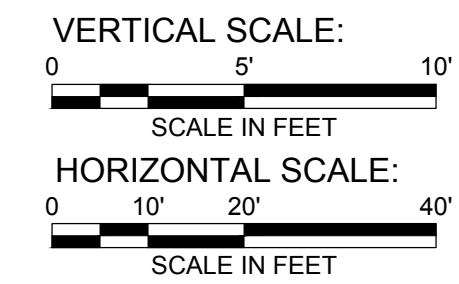


DuPage, Illinois

WEST END PERIMETER ROADWAY

CROSS SECTIONS

project	contract	
88849	DPA-4300	
drawing	rev.	
<b>X-101</b>	-	
sheet	of	sheets
file		



Material(s) at Station 16+50.00

Material Name	Area	Volume	Cumulative Volume
CUT	240.45	418.11	1084.49
FILL	0.00	0.00	230.98

Material(s) at Station 17+00.00

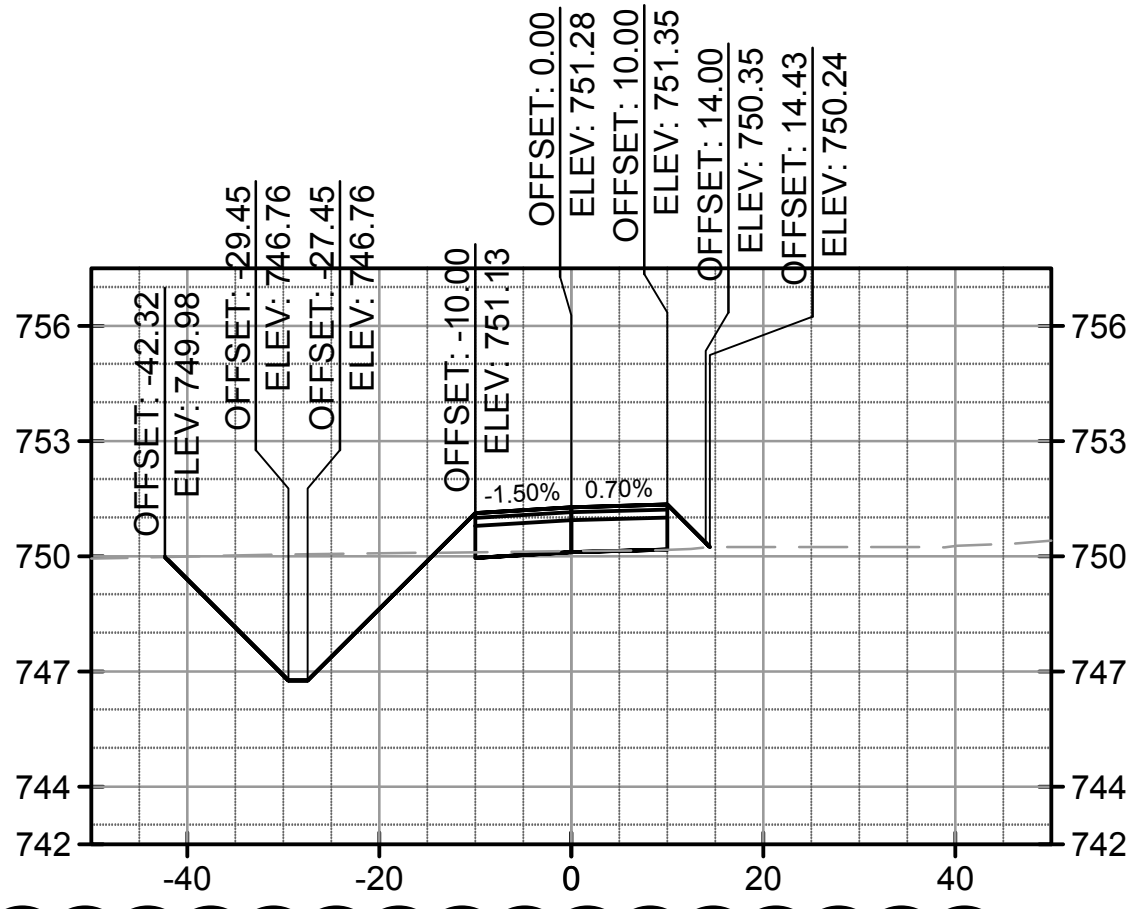
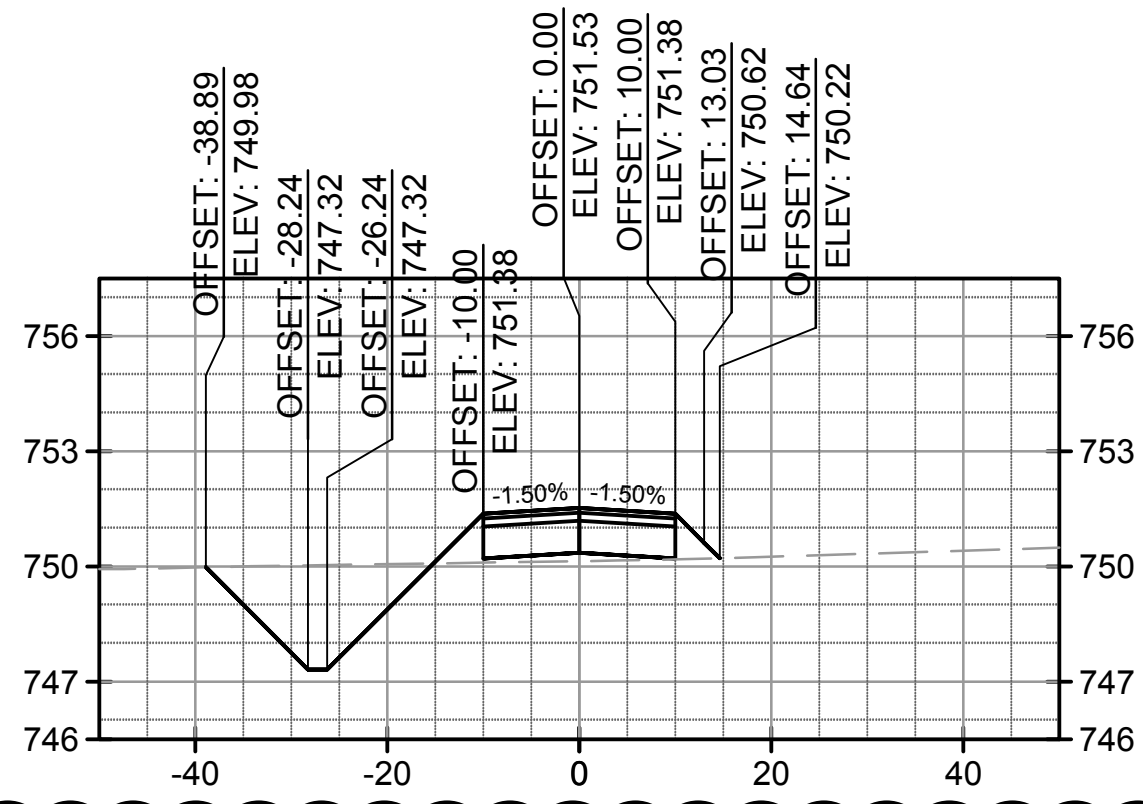
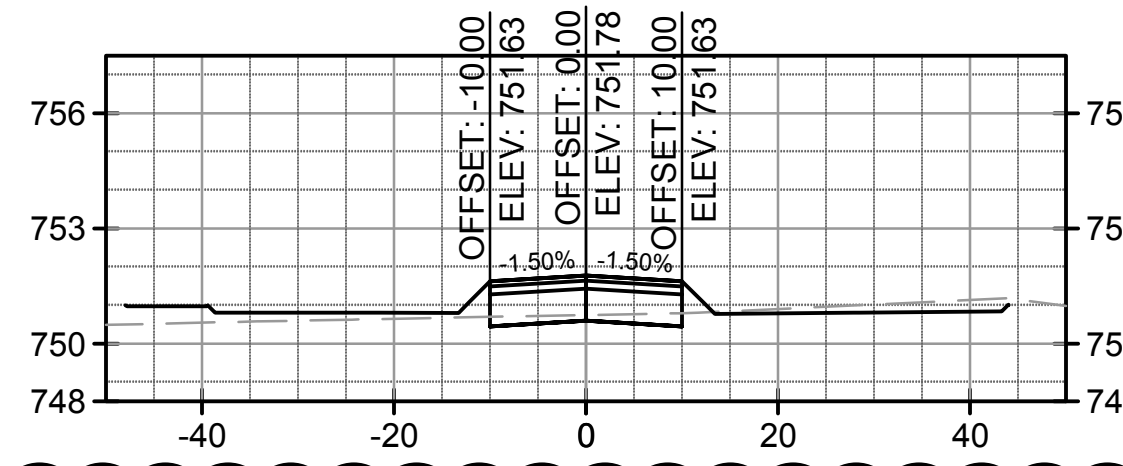
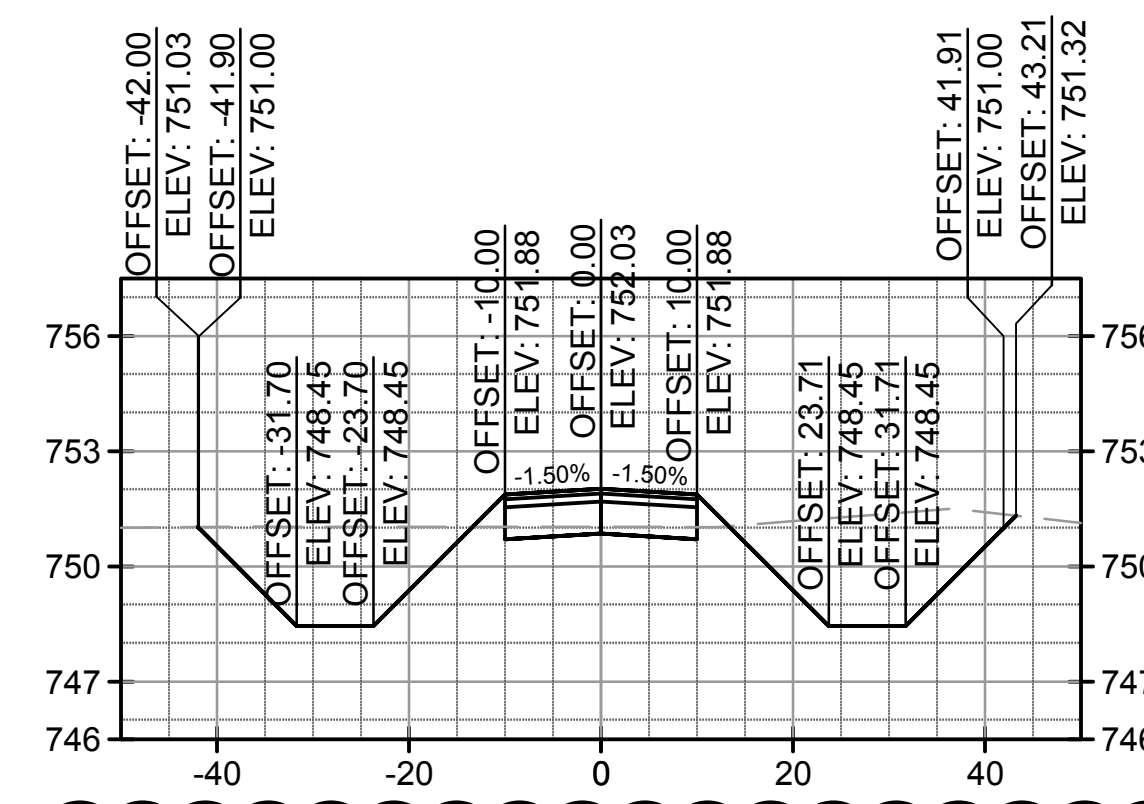
Material Name	Area	Volume	Cumulative Volume
CUT	218.34	424.81	1509.30
FILL	0.00	0.00	230.98

Material(s) at Station 17+50.00

Material Name	Area	Volume	Cumulative Volume
CUT	151.53	342.48	1851.78
FILL	0.21	0.19	231.17

Material(s) at Station 18+00.00

Material Name	Area	Volume	Cumulative Volume
CUT	110.74	242.85	2094.63
FILL	1.86	1.91	233.09



Material(s) at Station 18+50.00

Material Name	Area	Volume	Cumulative Volume
CUT	107.73	202.31	2296.94
FILL	2.87	4.38	2301.32

Material(s) at Station 19+00.00

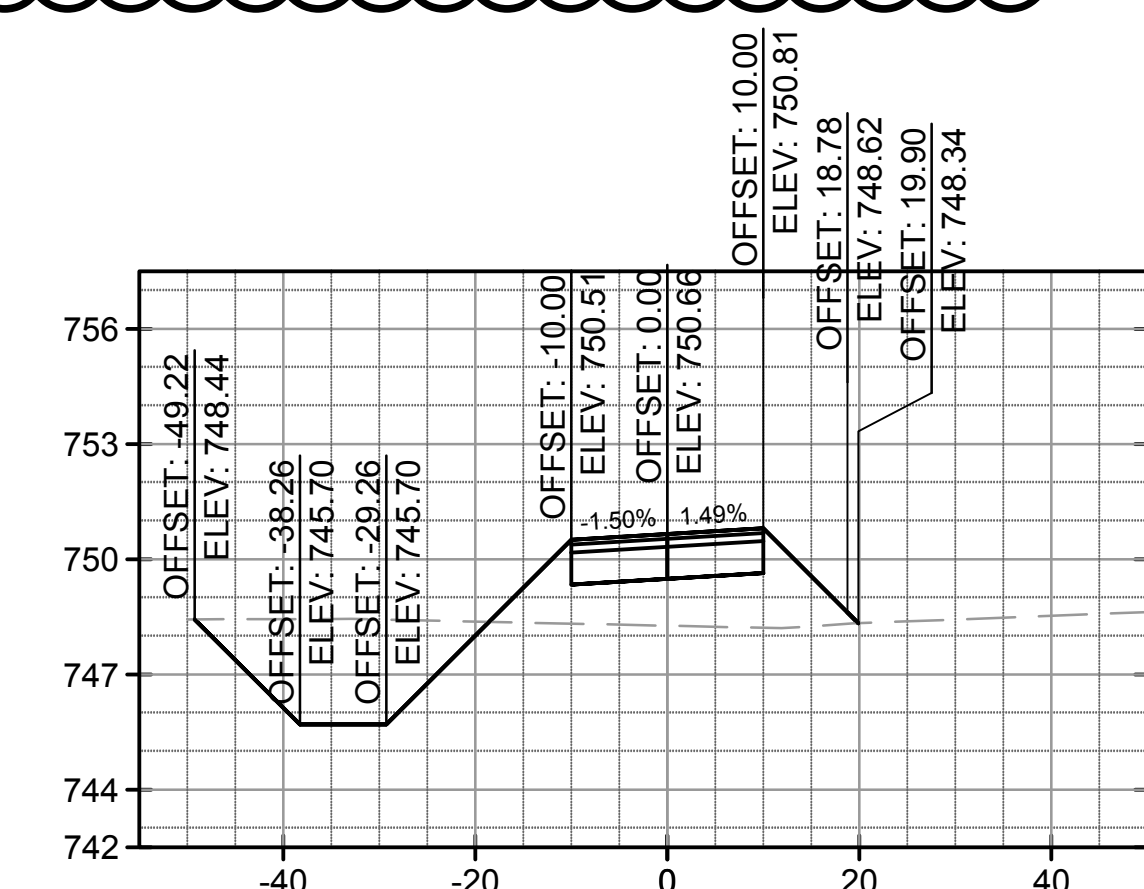
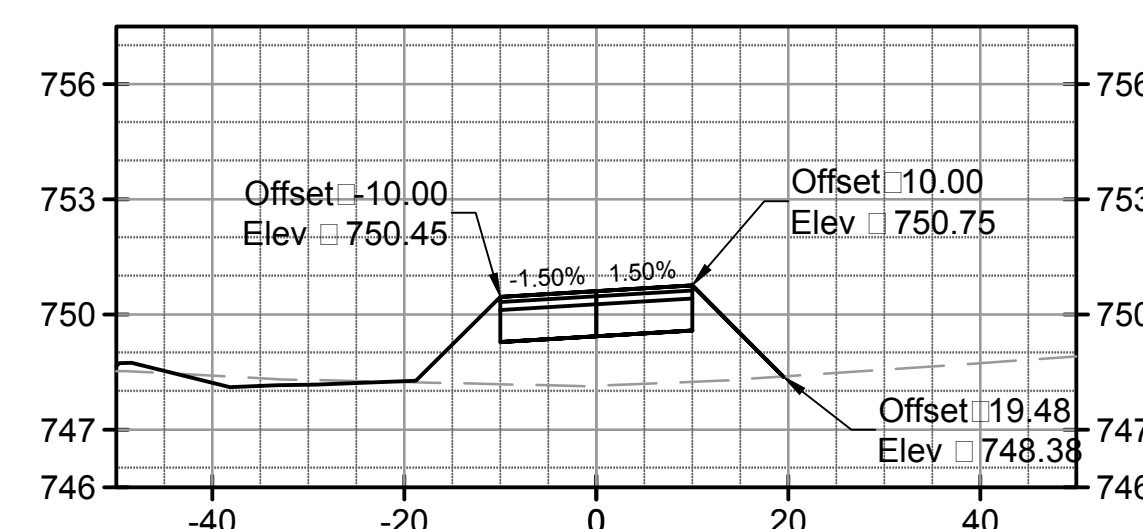
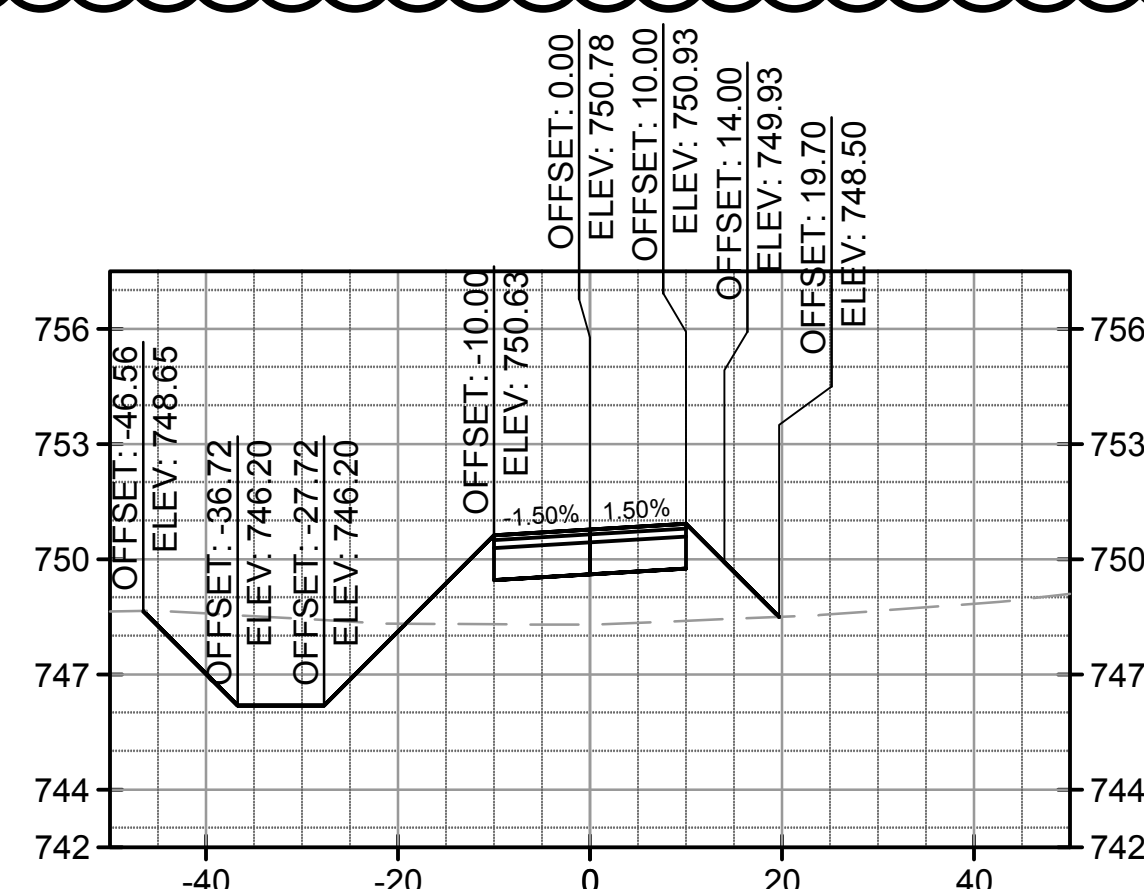
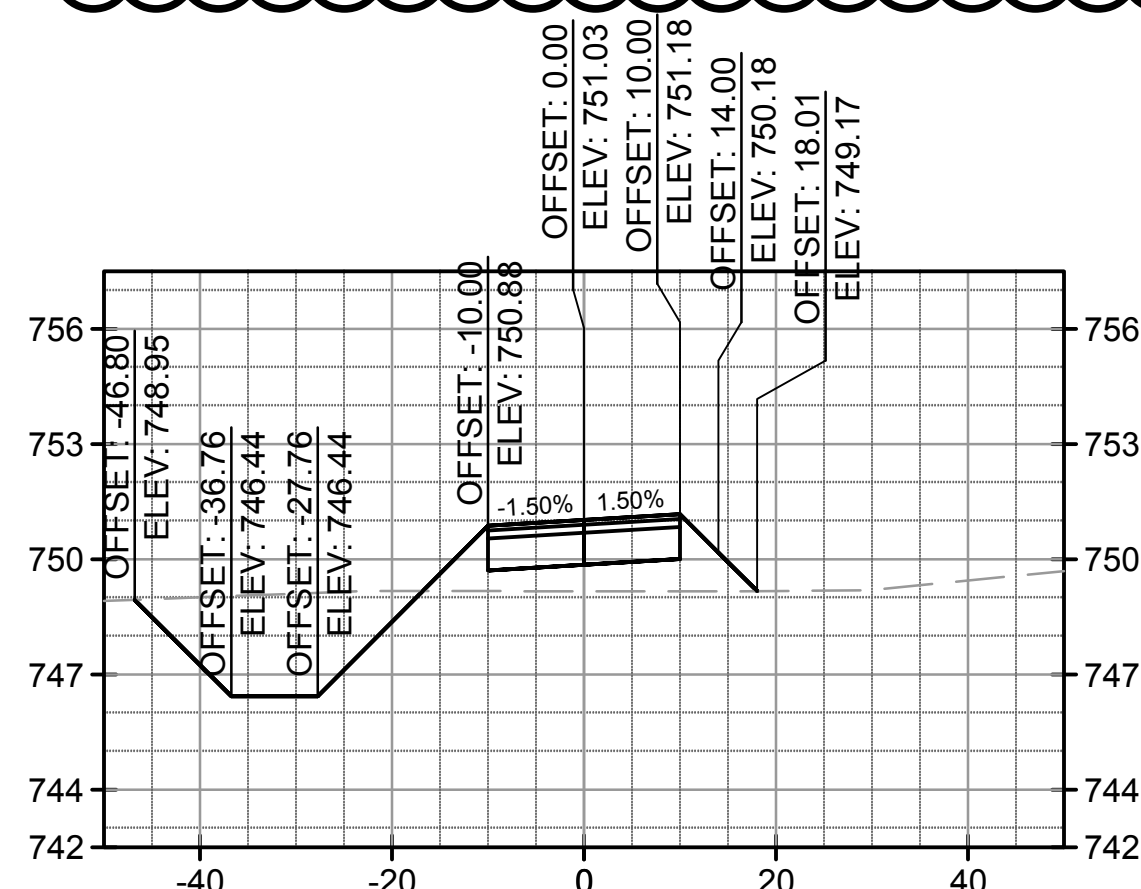
Material Name	Area	Volume	Cumulative Volume
CUT	9.36	108.42	2405.36
FILL	9.64	11.59	2416.95

Material(s) at Station 19+50.00

Material Name	Area	Volume	Cumulative Volume
CUT	34.97	41.04	2446.40
FILL	8.83	17.10	2463.50

Material(s) at Station 20+00.00

Material Name	Area	Volume	Cumulative Volume
CUT	50.68	79.30	2525.70
FILL	4.76	12.58	2538.28



Material(s) at Station 20+50.00

Material Name	Area	Volume	Cumulative Volume
CUT	51.82	89.38	2615.08
FILL	27.59	30.05	308.79

Material(s) at Station 21+00.00

Material Name	Area	Volume	Cumulative Volume
CUT	41.59	80.91	2695.99
FILL	48.56	70.64	379.43

Material(s) at Station 21+50.00

Material Name	Area	Volume	Cumulative Volume
CUT	2.78	38.38	2734.37
FILL	43.01	84.95	464.38

Material(s) at Station 22+00.00

Material Name	Area	Volume	Cumulative Volume
CUT	54.37	49.33	2783.70
FILL	46.74	83.34	547.71

no.	date	by	ckd	description
A	03/18/16	AB	BQ	ISSUED FOR 80% REVIEW
B	04/15/16	AB	BQ	ISSUED FOR BID
C	06/01/16	JY	BQ	ISSUED FOR ADDENDUM NO. 1

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 DOWNERS GROVE, IL 60515  
 630-724-3200  
 LICENSEE NO. 184-001310

date	JANUARY 25, 2016	detailed	A. BUDNIK
designed	J. YAHYA	checked	B. QUINLAN

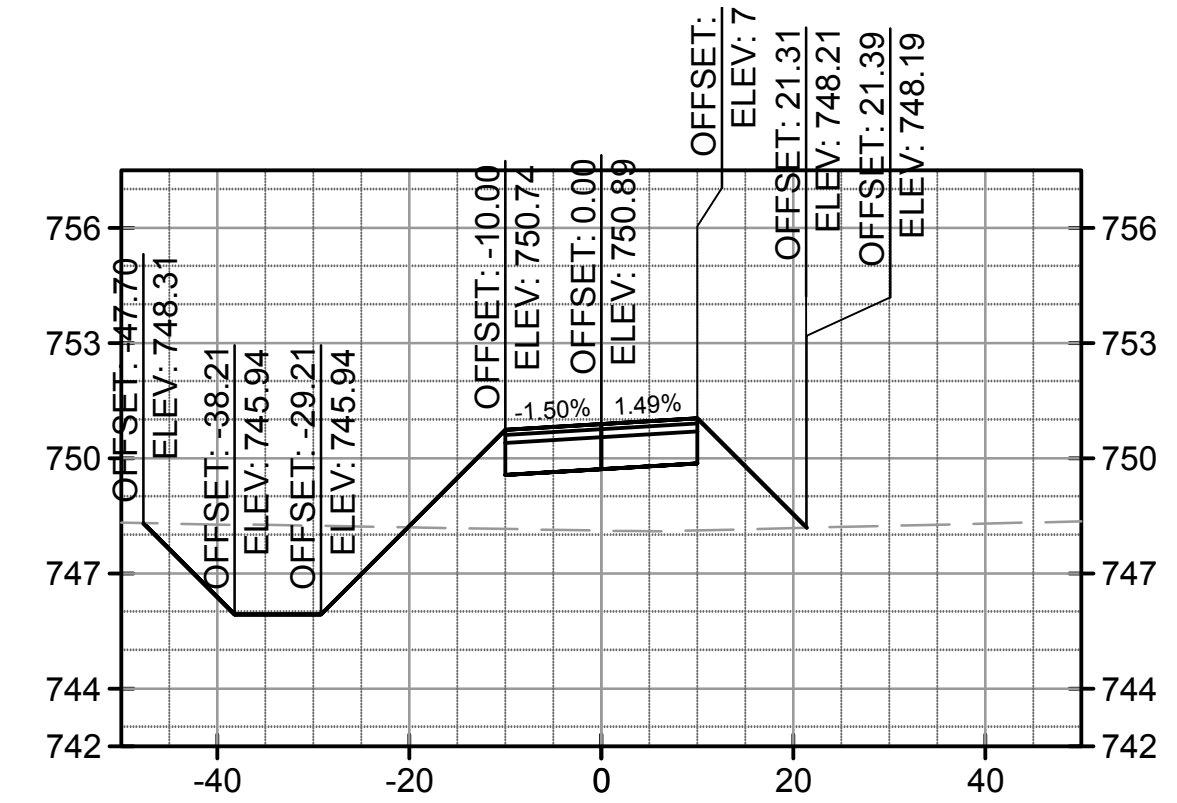
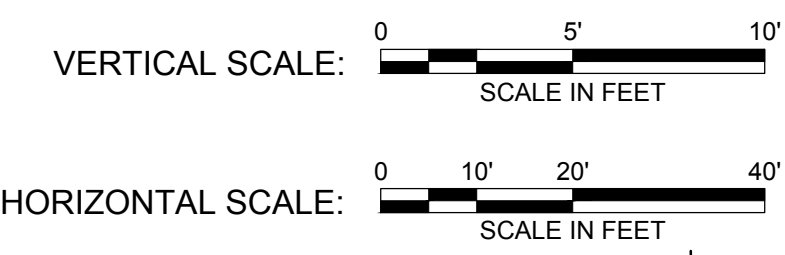
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 DuPage, Illinois  
**WEST END PERIMETER ROADWAY**

CROSS SECTIONS

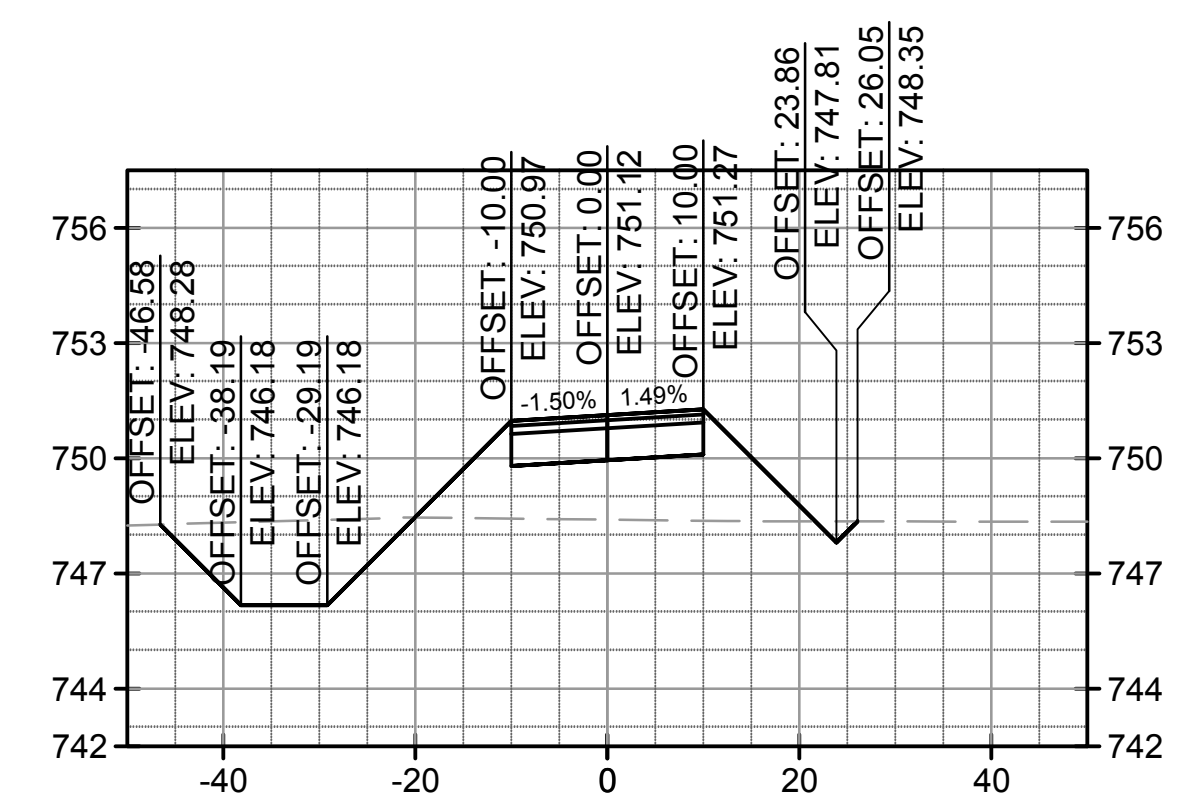
project	88849	contract	DPA-4300
drawing	<b>X-102</b>	rev.	
sheet	of	sheets	
file			

Scale For Microfitting  
 Millimeters  
 Inches

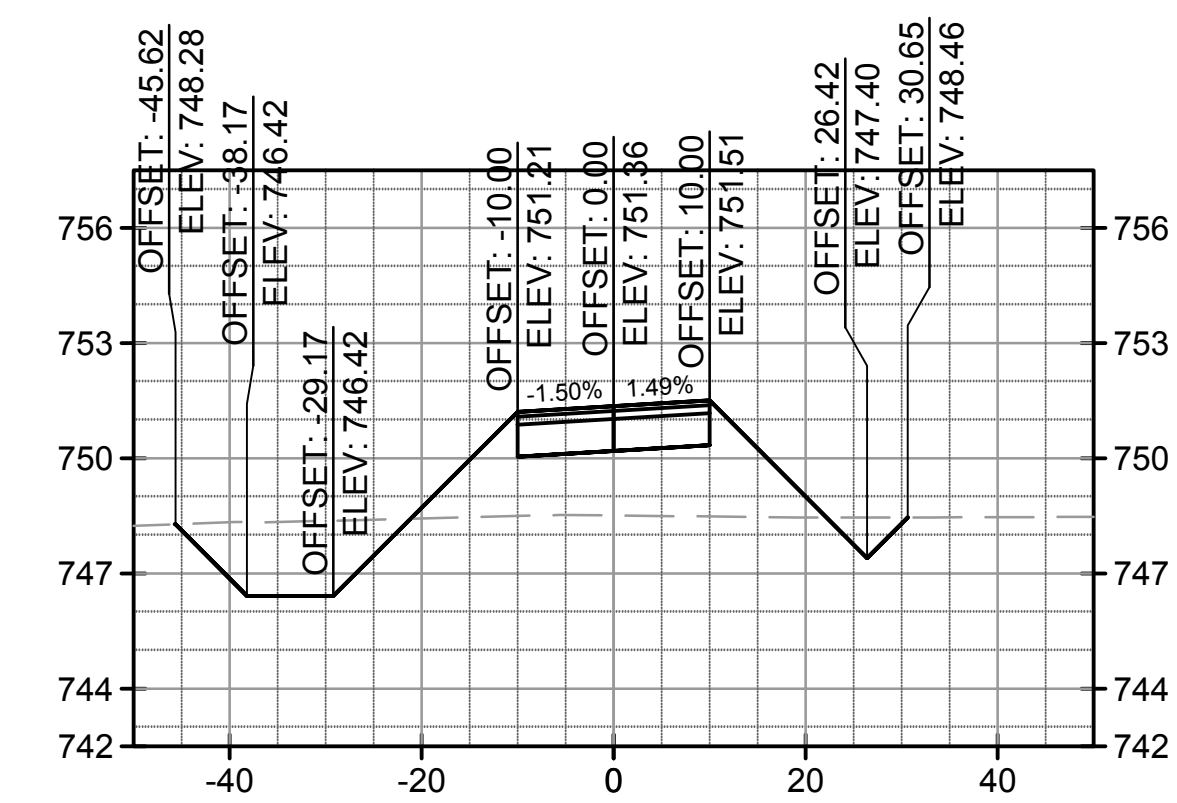
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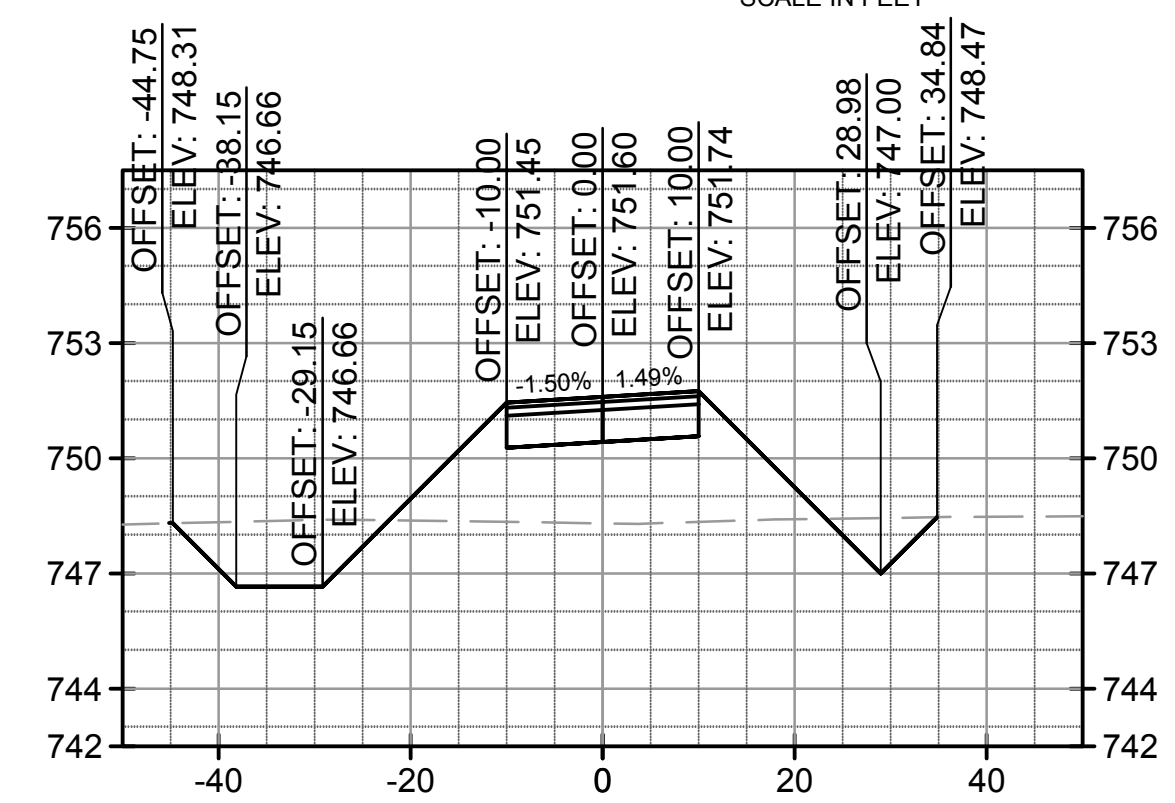
Material(s) at Station 22+50.00			
Material Name	Area	Volume	Cumulative Volume
CUT	42.39	83.52	2867.23
FILL	61.56	100.52	648.24



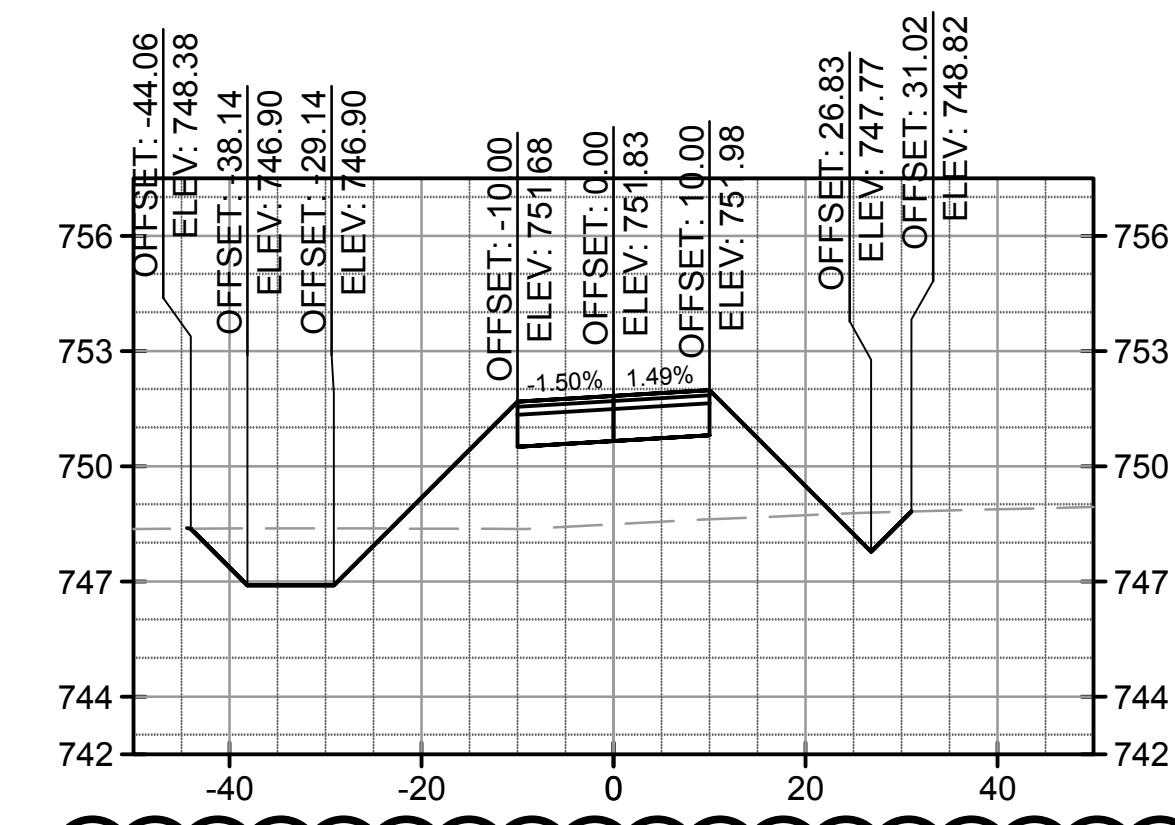
Material(s) at Station 23+00.00			
Material Name	Area	Volume	Cumulative Volume
CUT	40.10	71.36	2938.59
FILL	60.81	113.56	761.80



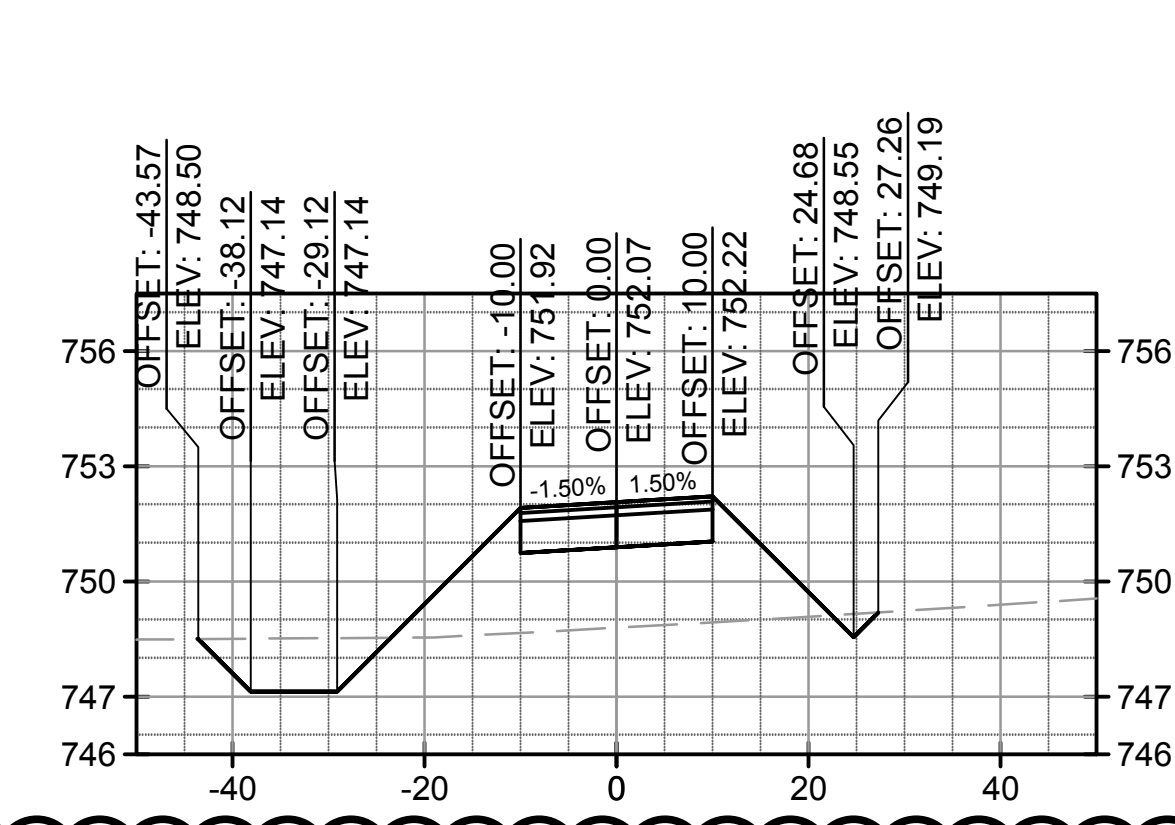
Material(s) at Station 23+50.00			
Material Name	Area	Volume	Cumulative Volume
CUT	36.92	67.16	3005.75
FILL	67.24	118.83	880.63



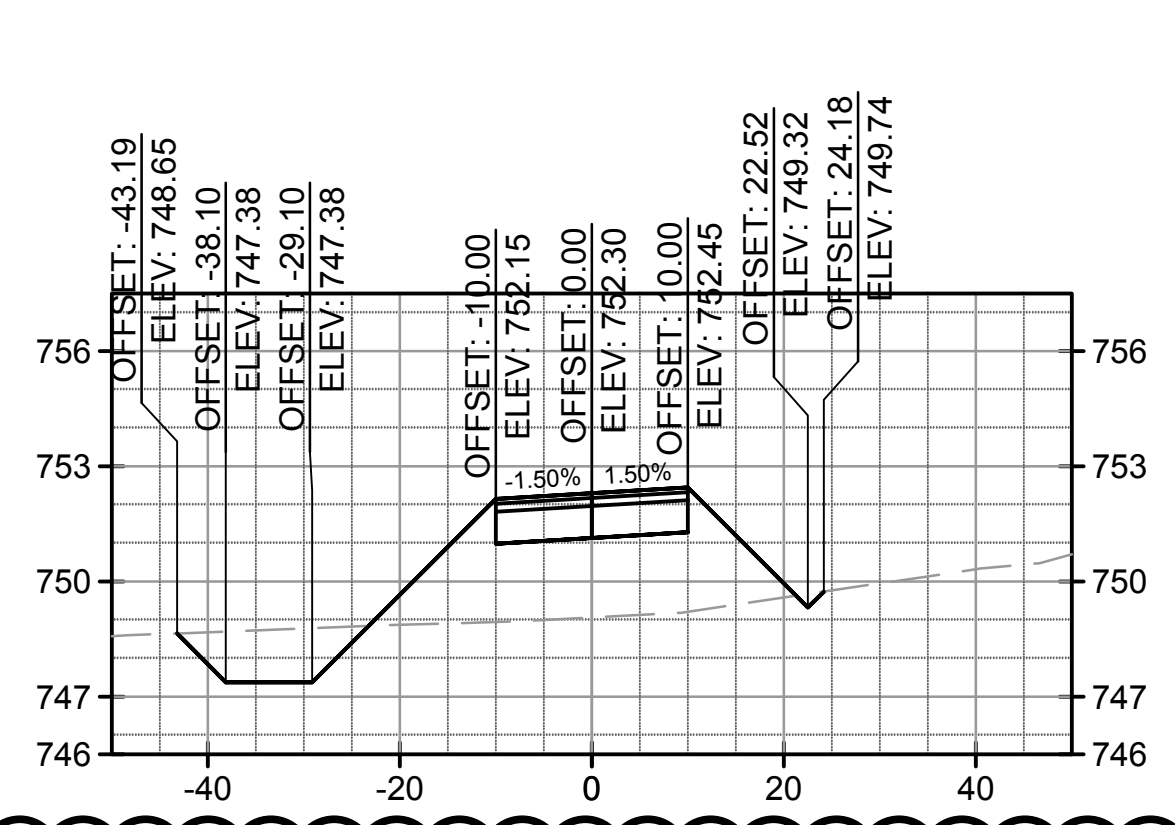
Material(s) at Station 24+00.00			
Material Name	Area	Volume	Cumulative Volume
CUT	35.41	63.95	3069.70
FILL	83.61	139.92	1020.55



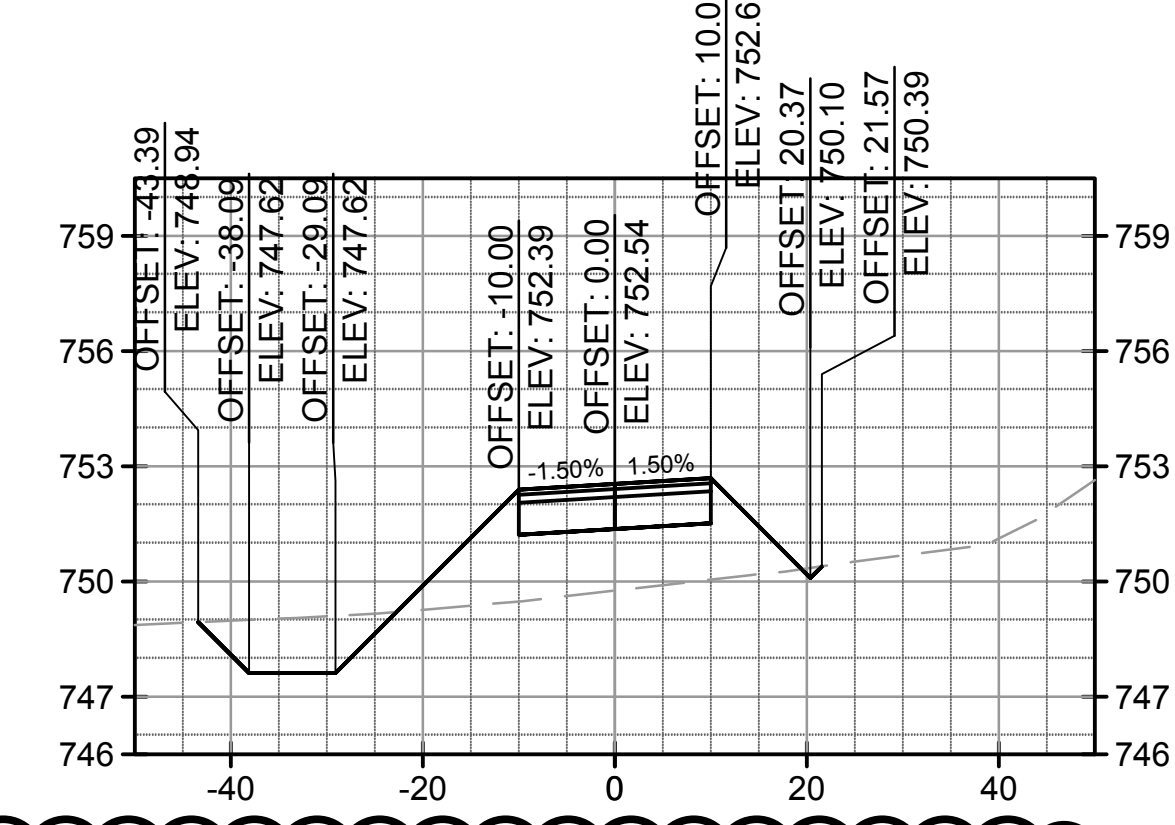
Material(s) at Station 24+50.00			
Material Name	Area	Volume	Cumulative Volume
CUT	26.37	54.80	3124.50
FILL	86.92	158.01	1178.56



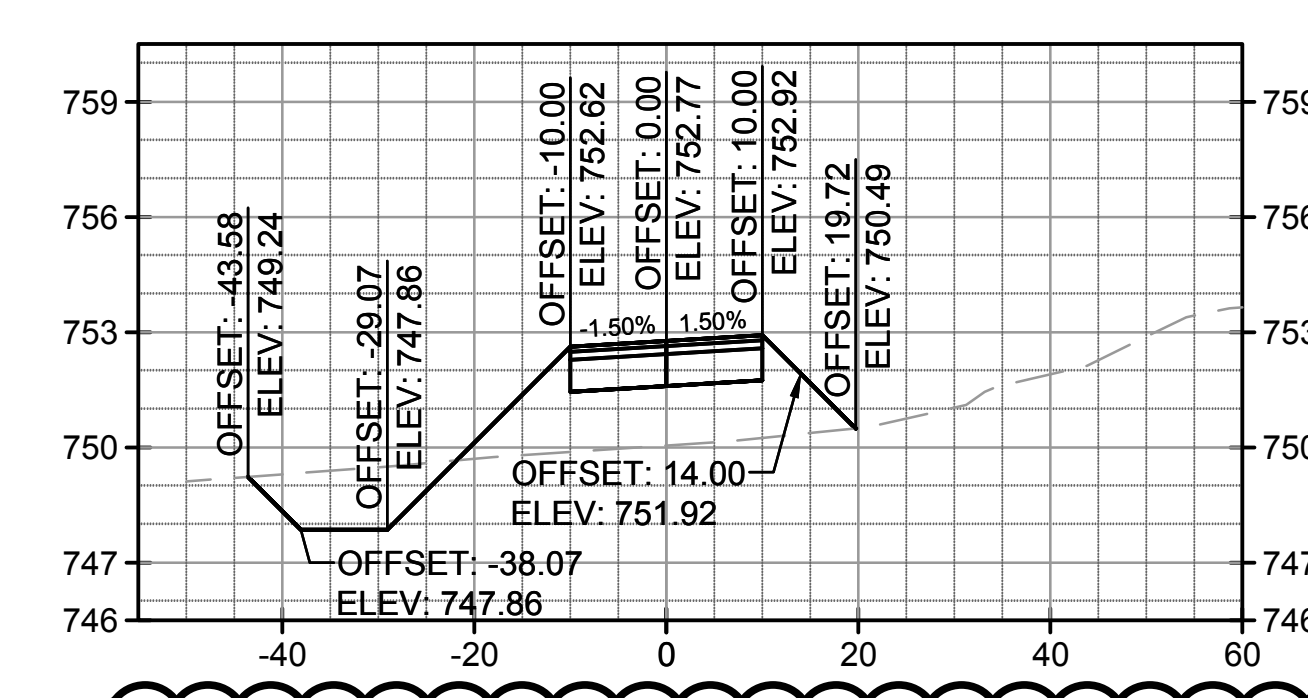
Material(s) at Station 25+00.00			
Material Name	Area	Volume	Cumulative Volume
CUT	21.53	41.99	3166.49
FILL	84.55	158.70	1337.26



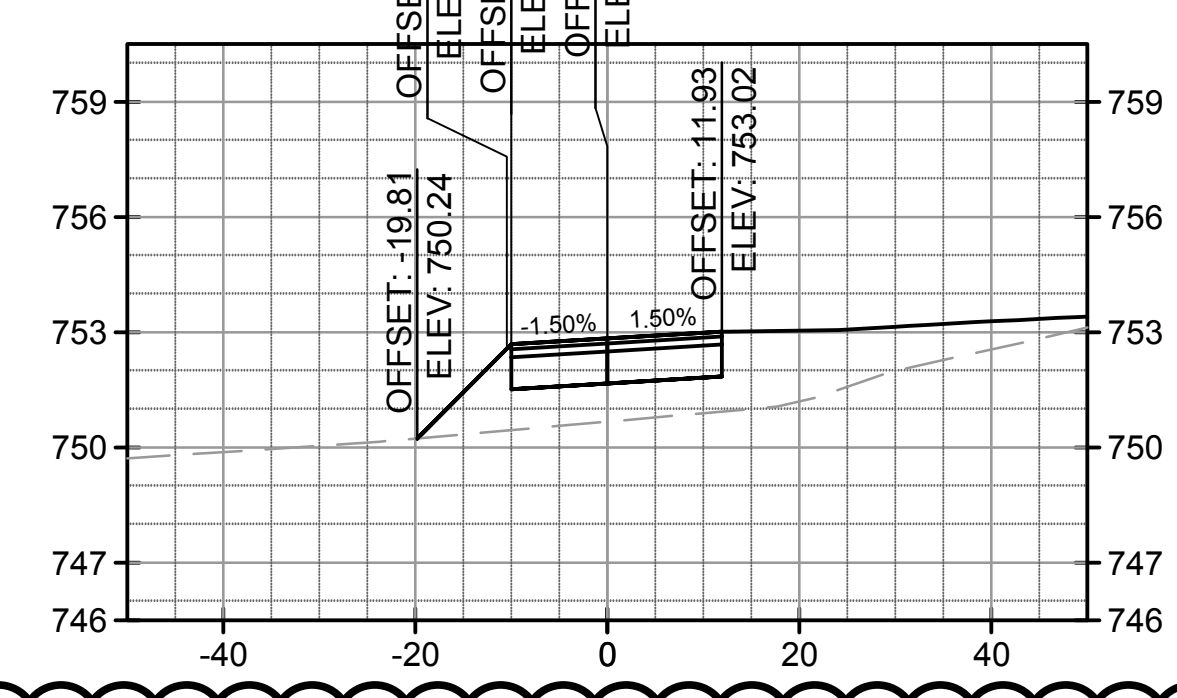
Material(s) at Station 25+50.00			
Material Name	Area	Volume	Cumulative Volume
CUT	20.34	36.39	3202.88
FILL	80.85	152.99	1490.25



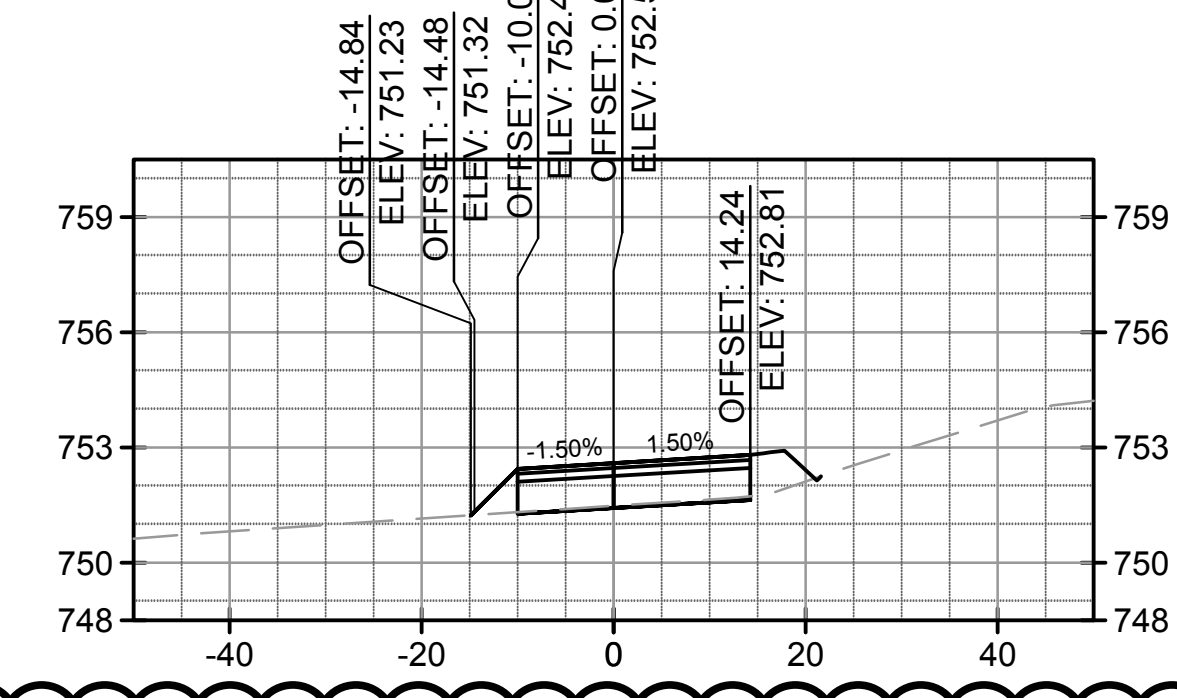
Material(s) at Station 26+00.00			
Material Name	Area	Volume	Cumulative Volume
CUT	21.55	36.29	3239.17
FILL	63.12	133.02	1623.26



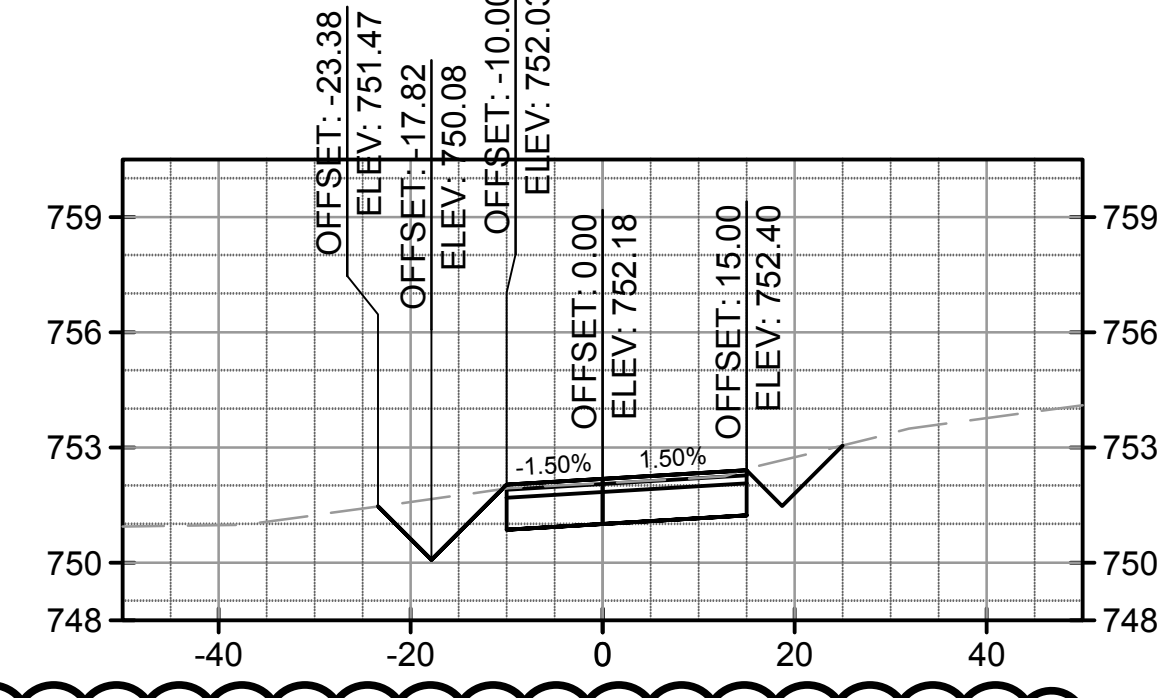
Material(s) at Station 26+50.00			
Material Name	Area	Volume	Cumulative Volume
CUT	24.05	39.46	3278.62
FILL	60.11	113.81	1737.07



Material(s) at Station 27+00.00			
Material Name	Area	Volume	Cumulative Volume
CUT	2.67	24.26	3302.89
FILL	46.75	99.02	1836.09



Material(s) at Station 27+50.00			
Material Name	Area	Volume	Cumulative Volume
CUT	1.71	4.06	3306.94
FILL	2.74	45.82	1881.92



Material(s) at Station 28+00.00			
Material Name	Area	Volume	Cumulative Volume
CUT	45.09	43.33	3350.27
FILL	0.02	2.56	1884.47

no.	date	by	ckd	description
A	03/18/16	AB	BQ	ISSUED FOR 80% REVIEW
B	04/15/16	AB	BQ	ISSUED FOR BID
C	06/01/16	JY	BQ	ISSUED FOR ADDENDUM NO. 1

Material Name	Area	Volume	Cumulative Volume
CUT	42.39	83.52	2867.23
FILL	61.56	100.52	648.24

**BURNS MEDONNELL**

1431 OPUS PLACE, SUITE 400  
DOWNERS GROVE, IL 60515  
630-724-3200  
LICENSEE NO. 184-001310

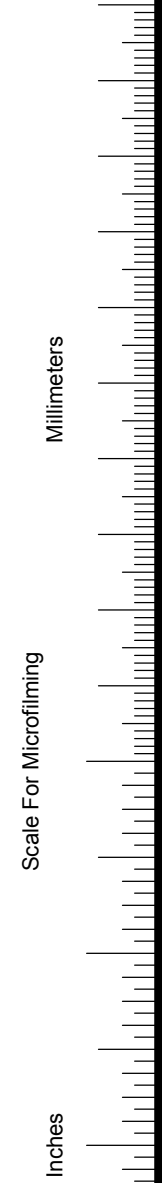
date	JANUARY 25, 2016	detailed	A. BUDNIK
designed	J. YAHYA	checked	B. QUINLAN

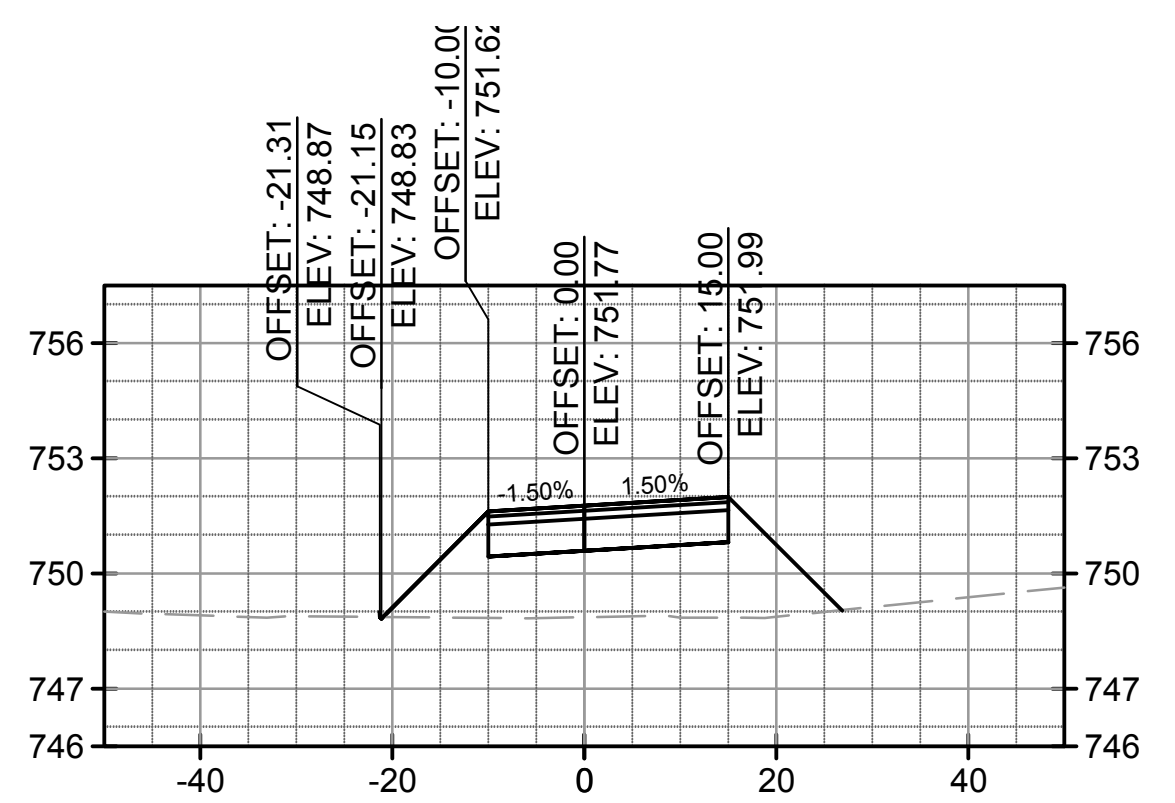
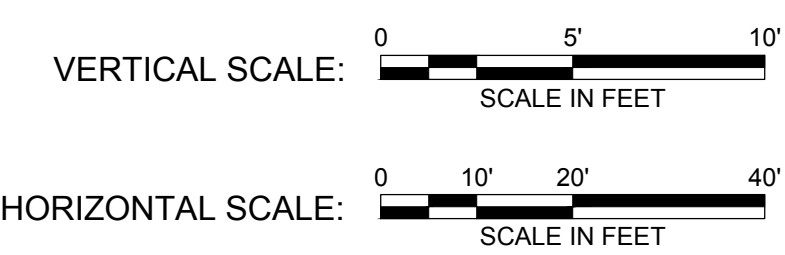
**DUPAGE AIRPORT AUTHORITY**

DuPage, Illinois

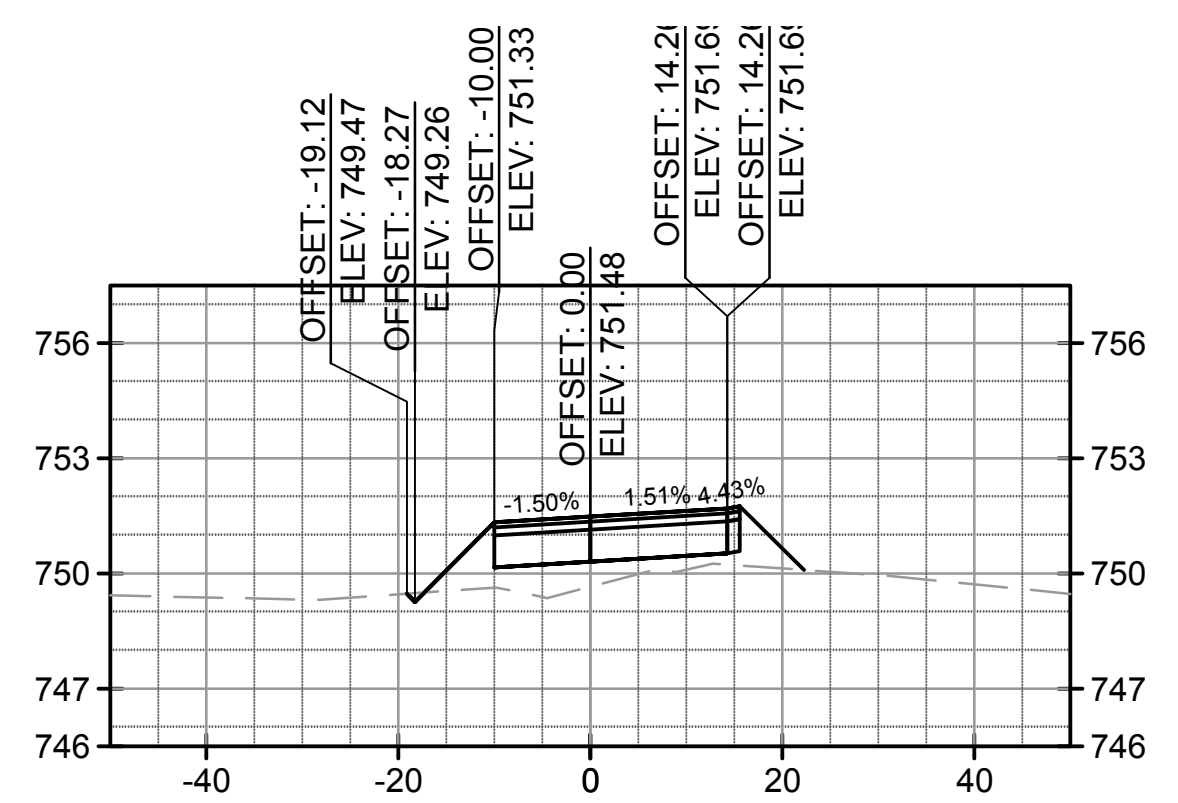
**WEST END PERIMETER ROADWAY**

project	88849	contract	DPA-4300
drawing	<b>X-103</b>	rev.	
sheet	of	sheets	

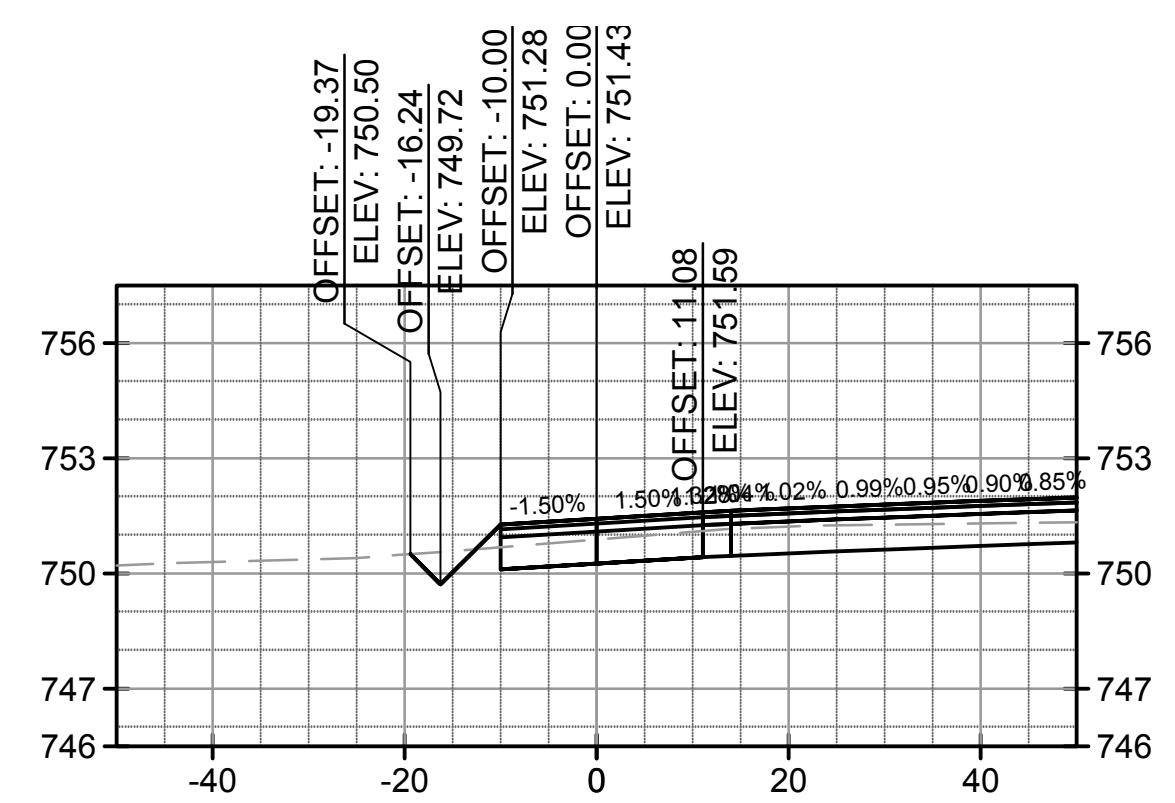




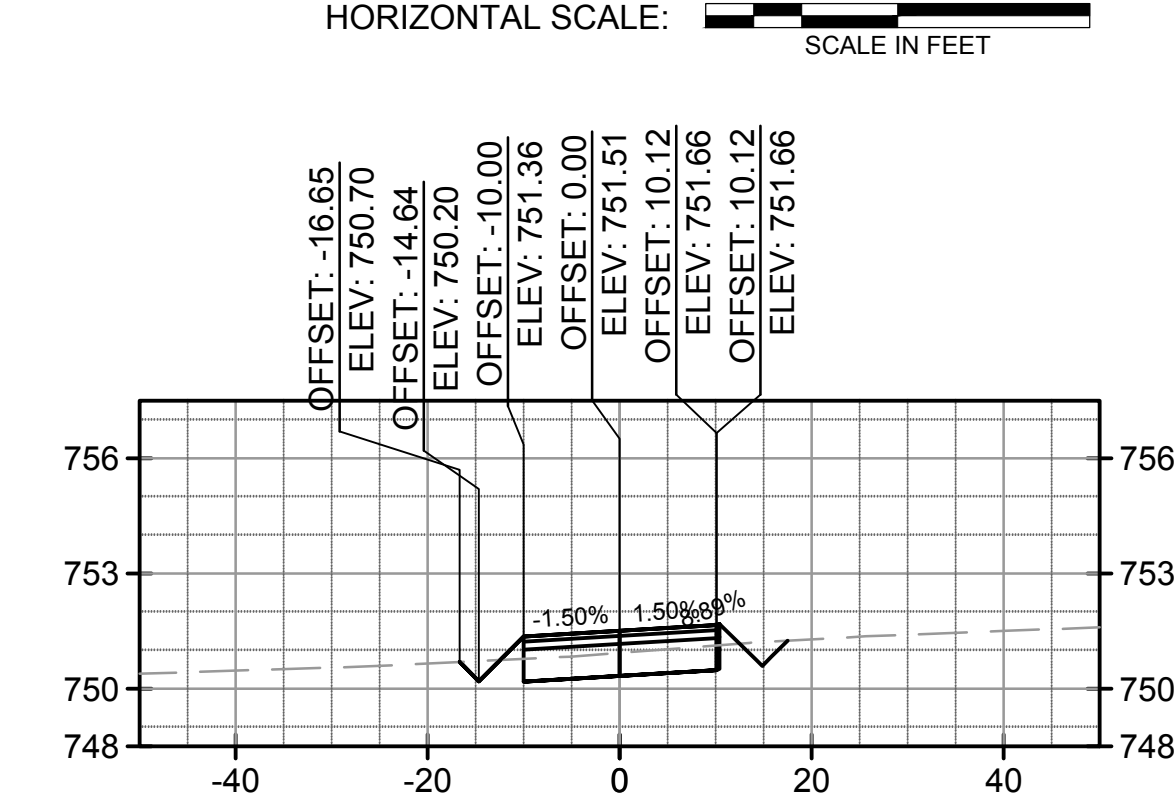
Material(s) at Station 28+50.00			
Material Name	Area	Volume	Cumulative Volume
CUT	0.01	41.76	3392.03
FILL	71.46	66.19	1950.67



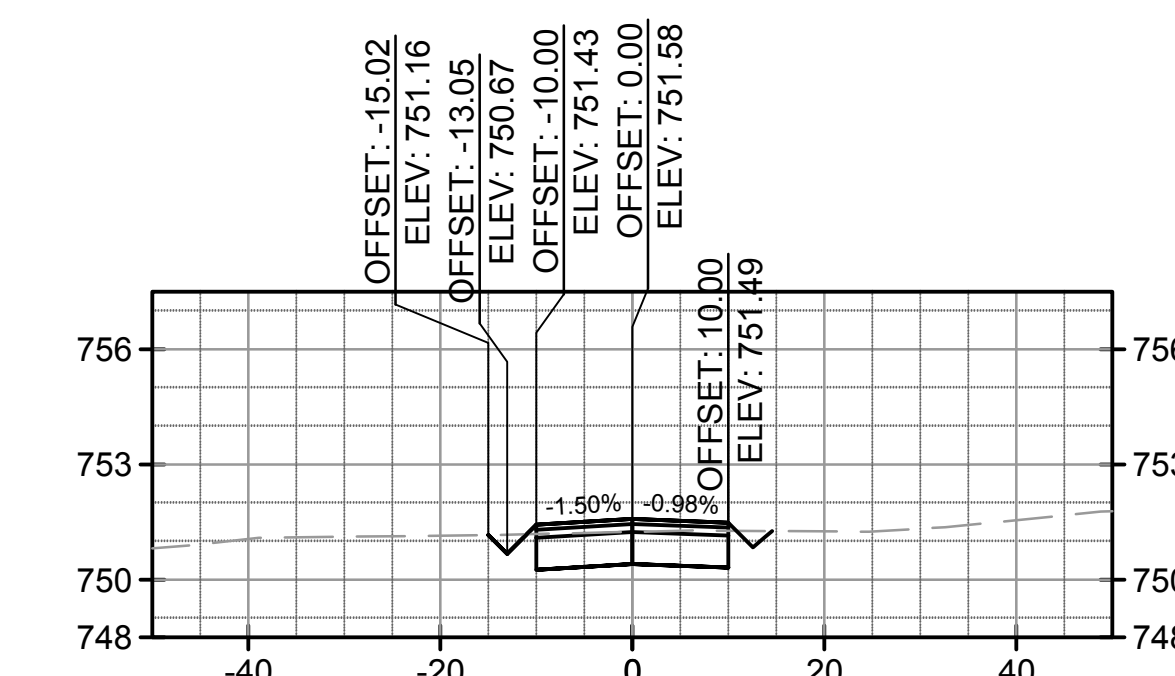
Material(s) at Station 29+00.00			
Material Name	Area	Volume	Cumulative Volume
CUT	0.21	0.20	3392.23
FILL	20.83	85.50	2036.17



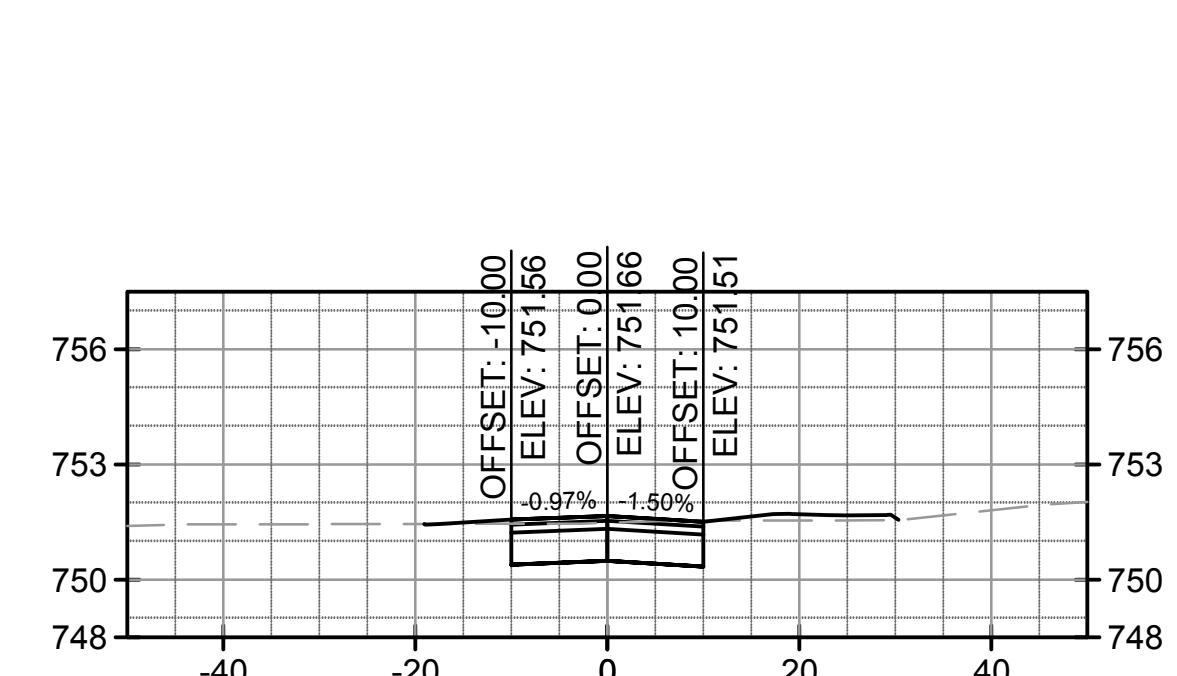
Material(s) at Station 29+50.00			
Material Name	Area	Volume	Cumulative Volume
CUT	46.35	44.91	3437.14
FILL	0.77	19.90	2056.06



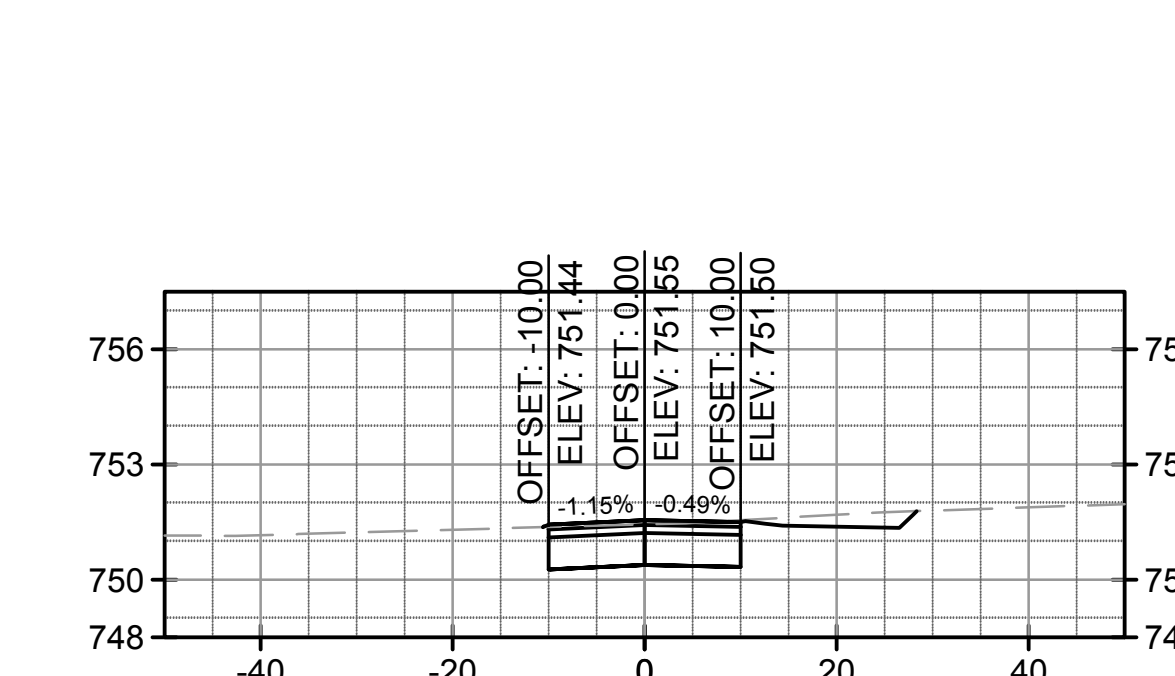
Material(s) at Station 30+00.00			
Material Name	Area	Volume	Cumulative Volume
CUT	17.04	58.70	3495.84
FILL	0.70	1.36	2057.42



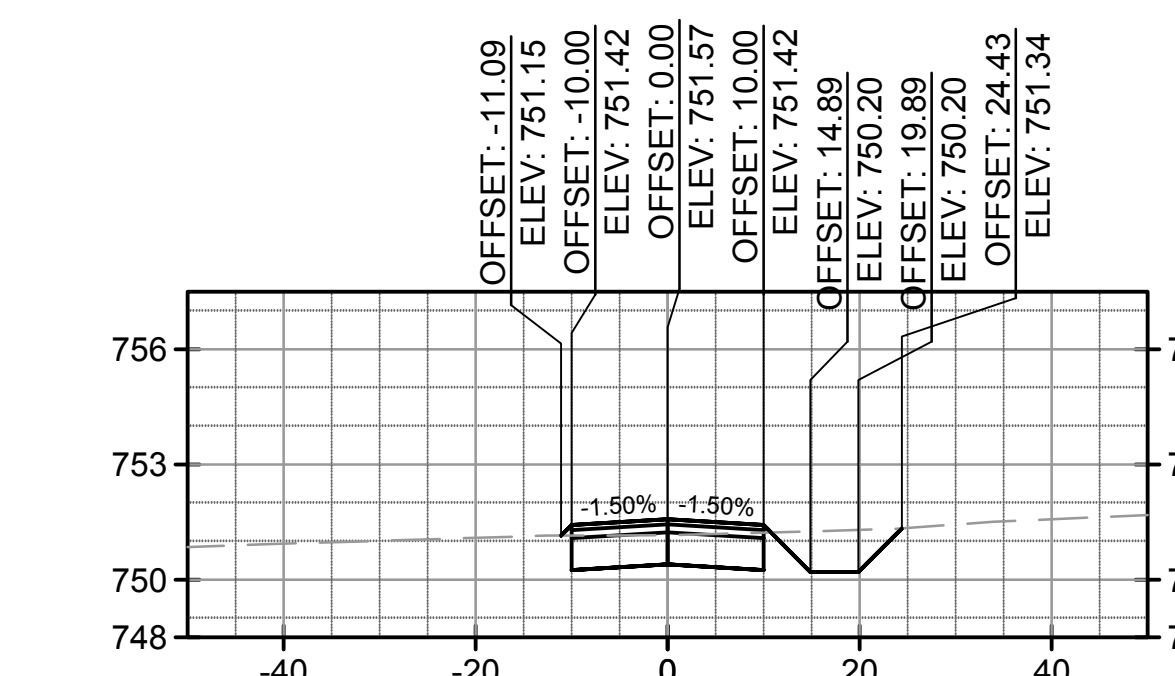
Material(s) at Station 30+50.00			
Material Name	Area	Volume	Cumulative Volume
CUT	21.23	35.44	3531.27
FILL	0.12	0.76	2058.19



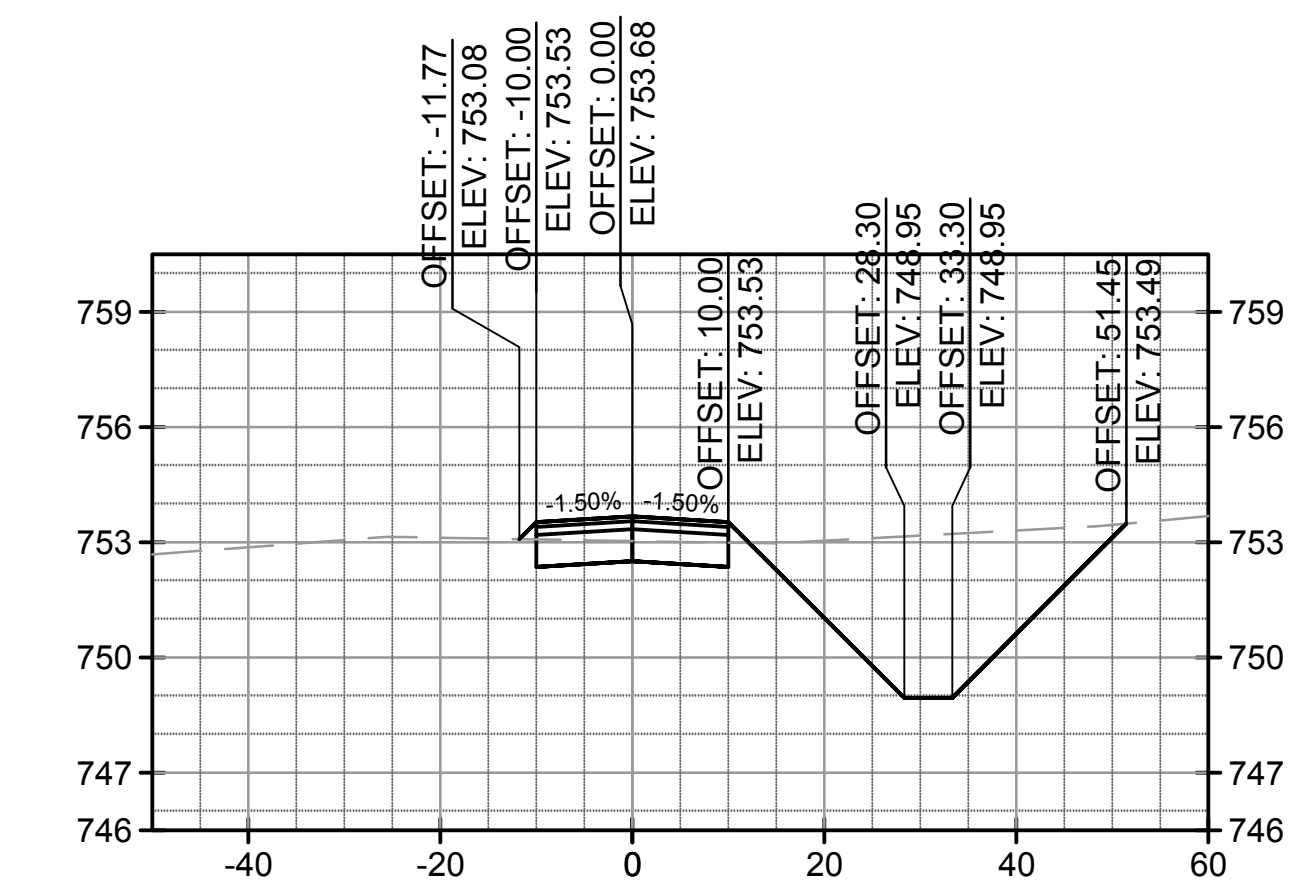
Material(s) at Station 31+00.00			
Material Name	Area	Volume	Cumulative Volume
CUT	32.73	49.96	3581.24
FILL	0.68	0.74	2058.93



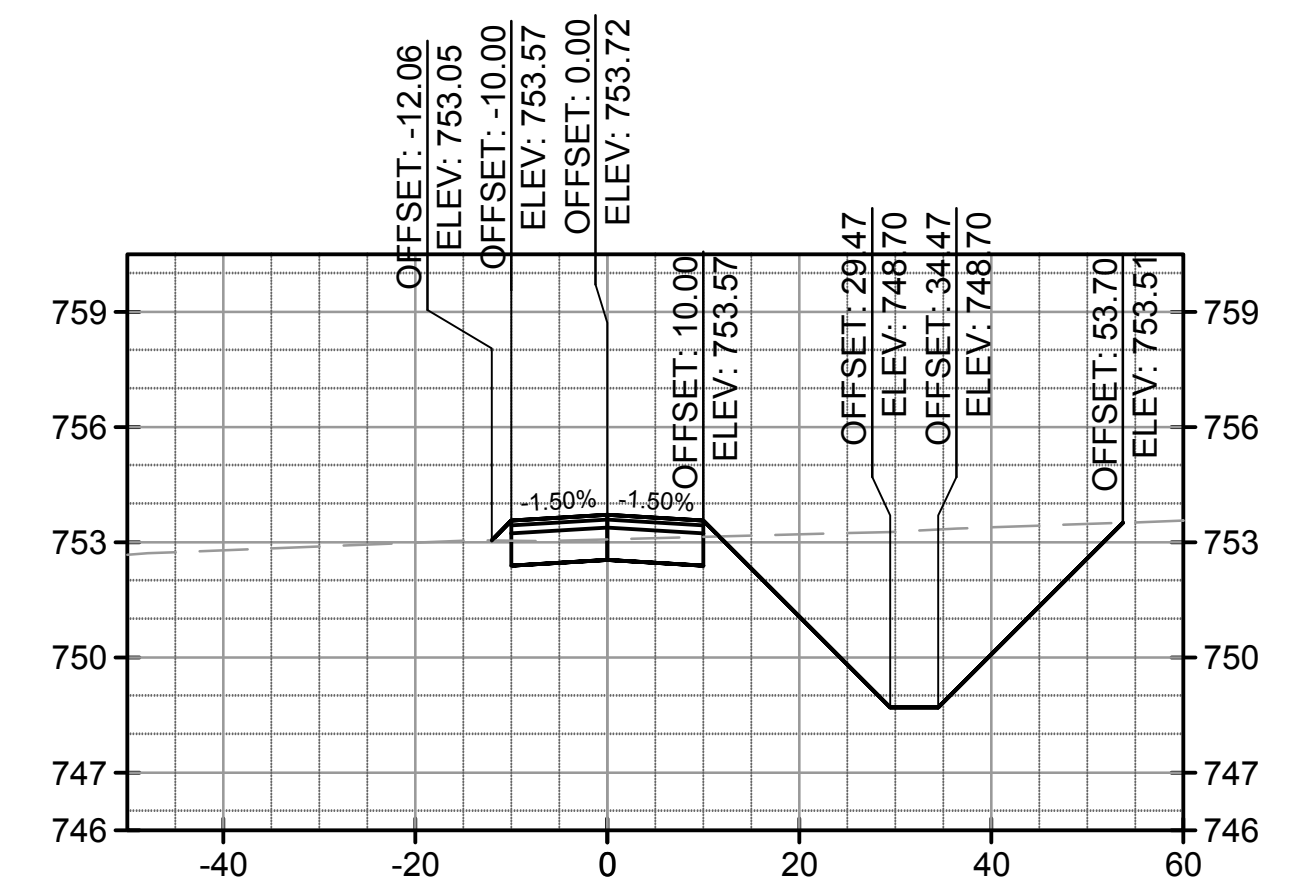
Material(s) at Station 31+50.00			
Material Name	Area	Volume	Cumulative Volume
CUT	33.83	61.63	3642.87
FILL	0.00	0.63	2059.56



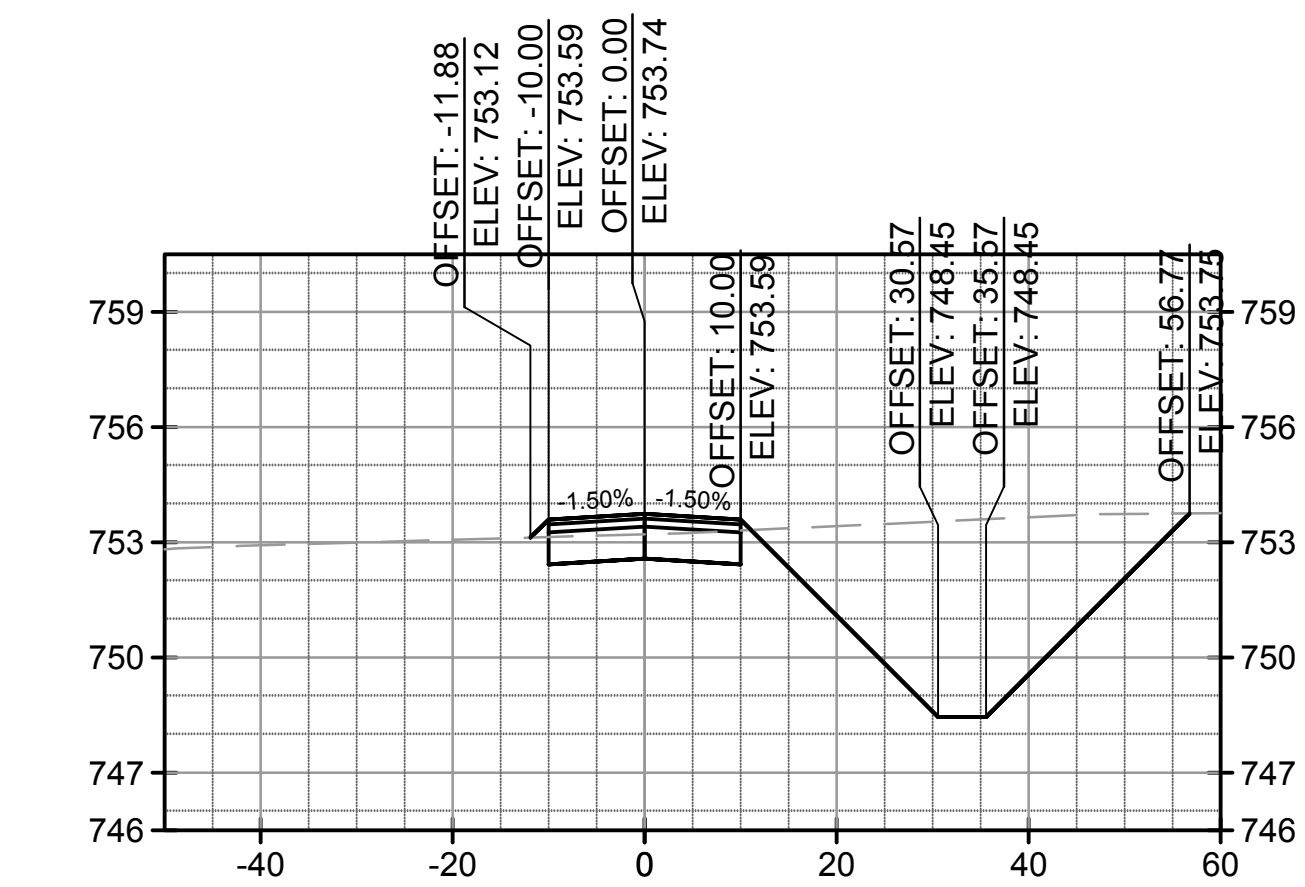
Material(s) at Station 32+00.00			
Material Name	Area	Volume	Cumulative Volume
CUT	27.03	56.35	3699.22
FILL	0.22	0.20	2059.77



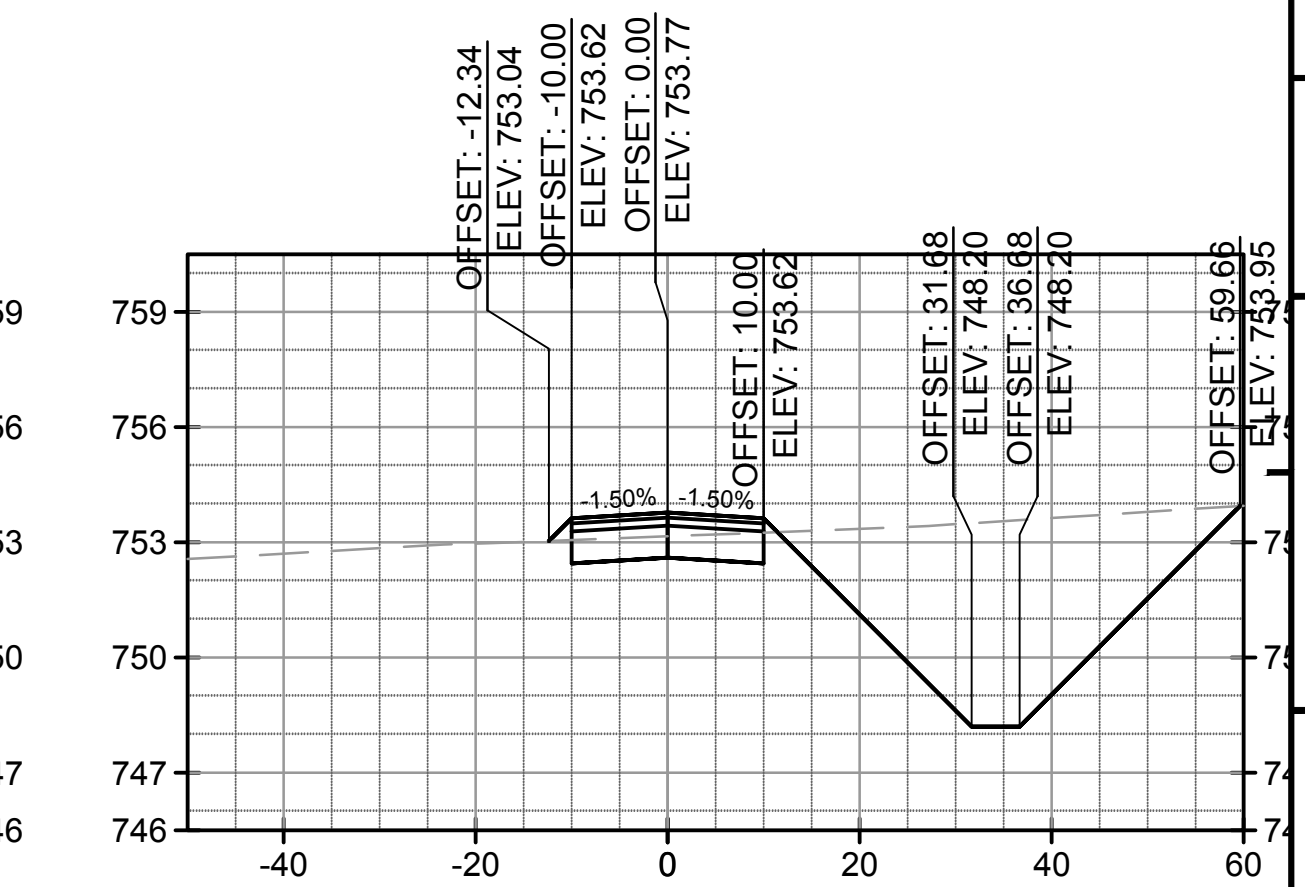
Material(s) at Station 34+50.00			
Material Name	Area	Volume	Cumulative Volume
CUT	105.35	178.79	4212.51
FILL	0.98	2.16	2074.54



Material(s) at Station 35+00.00			
Material Name	Area	Volume	Cumulative Volume
CUT	120.38	209.01	4421.52
FILL	0.90	1.74	2076.28



Material(s) at Station 35+50.00			
Material Name	Area	Volume	Cumulative Volume
CUT	144.56	245.32	4666.84
FILL	0.59	1.38	2077.66



Material(s) at Station 36+00.00			
Material Name	Area	Volume	Cumulative Volume
CUT	154.53	276.94	4943.78
FILL	0.92	1.40	2079.06

no.	date	by	ckd	description
A	03/18/16	AB	BQ	ISSUED FOR 80% REVIEW
B	04/15/16	AB	BQ	ISSUED FOR BID
C	06/01/16	JY	BQ	ISSUED FOR ADDENDUM NO. 1

**BURNS MEDONNELL**

1431 OPUS PLACE, SUITE 400  
DOWNERS GROVE, IL 60515  
630-724-3200  
LICENSEE NO. 184-001310

date	JANUARY 25, 2016	detailed	A. BUDNIK
designed	J. YAHYA	checked	B. QUINLAN

**DUPAGE AIRPORT AUTHORITY**

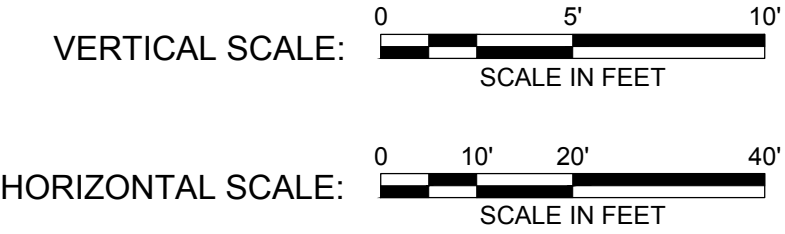
DuPage, Illinois

**WEST END PERIMETER ROADWAY**

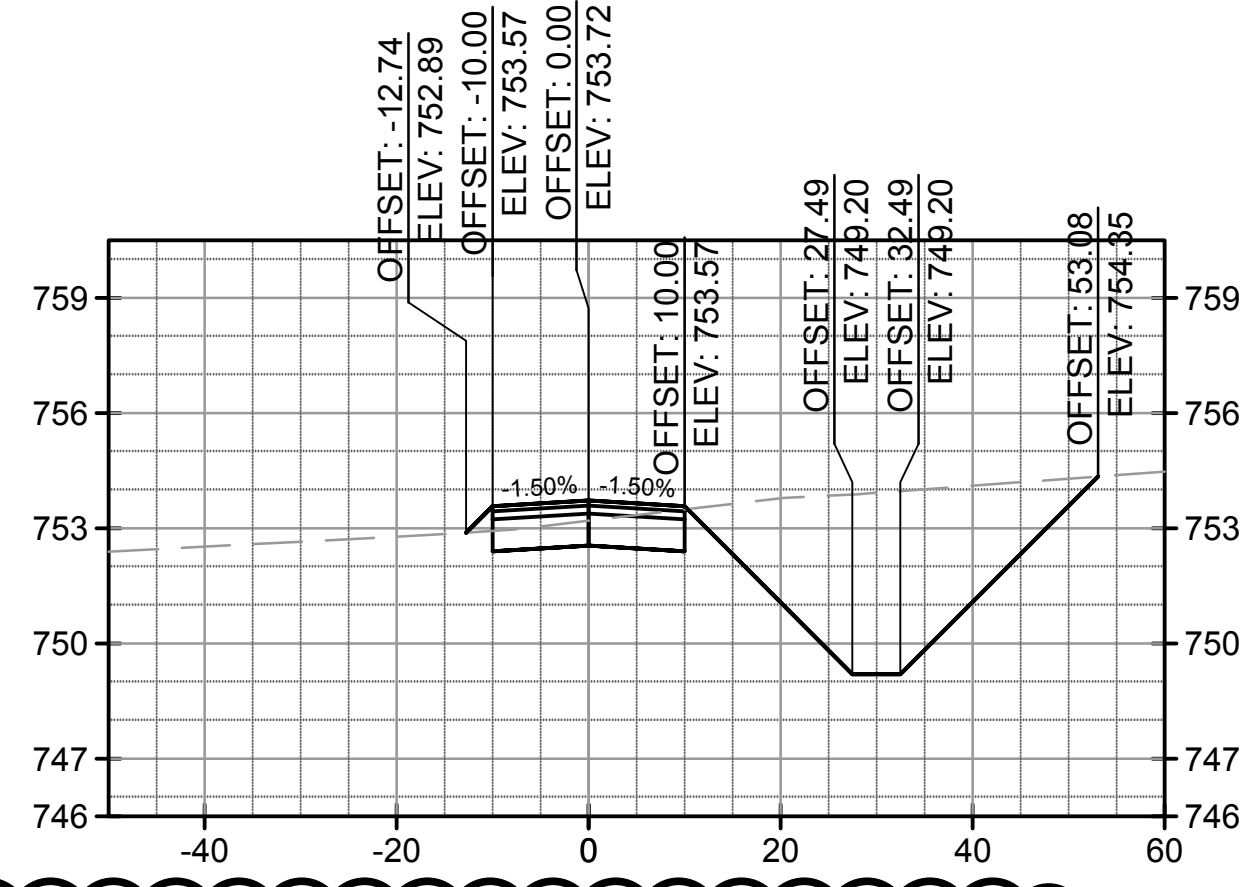
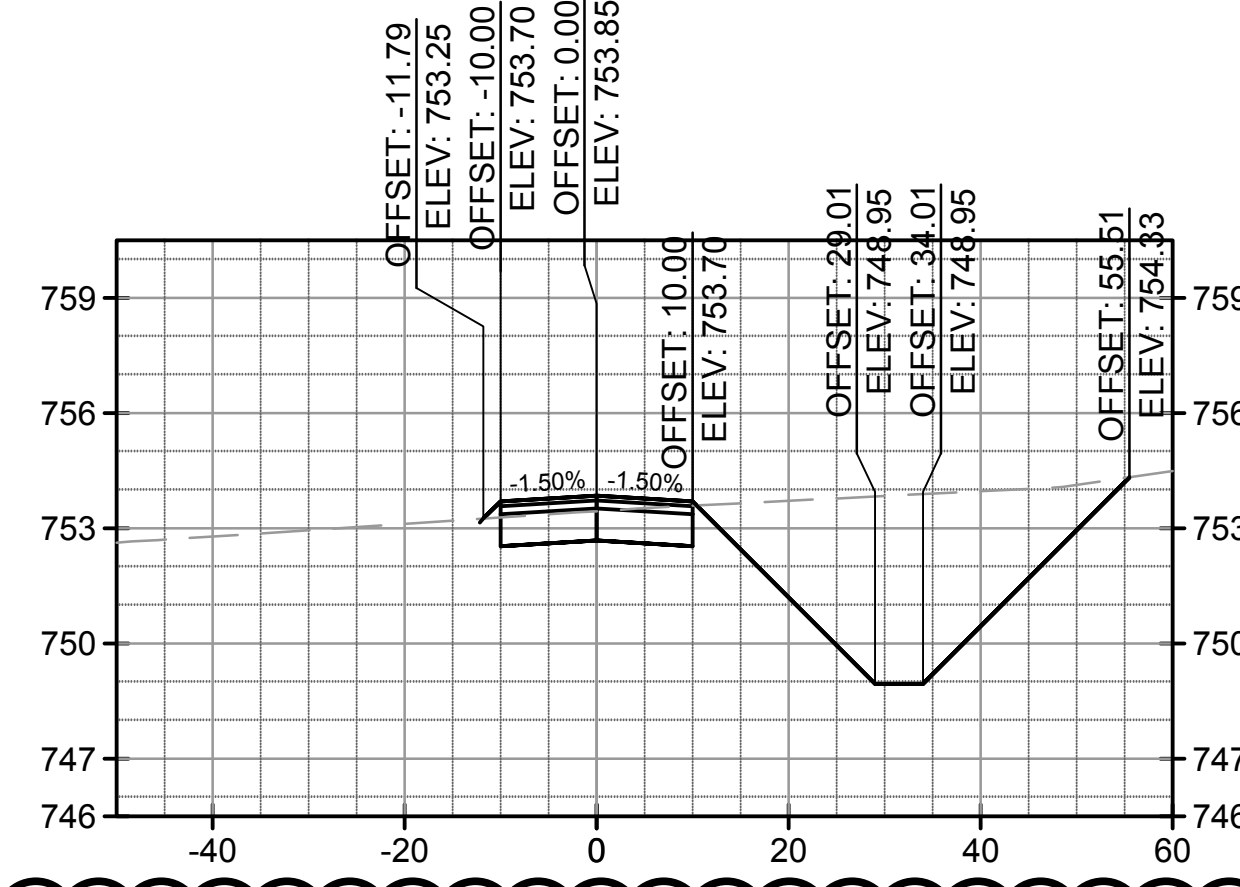
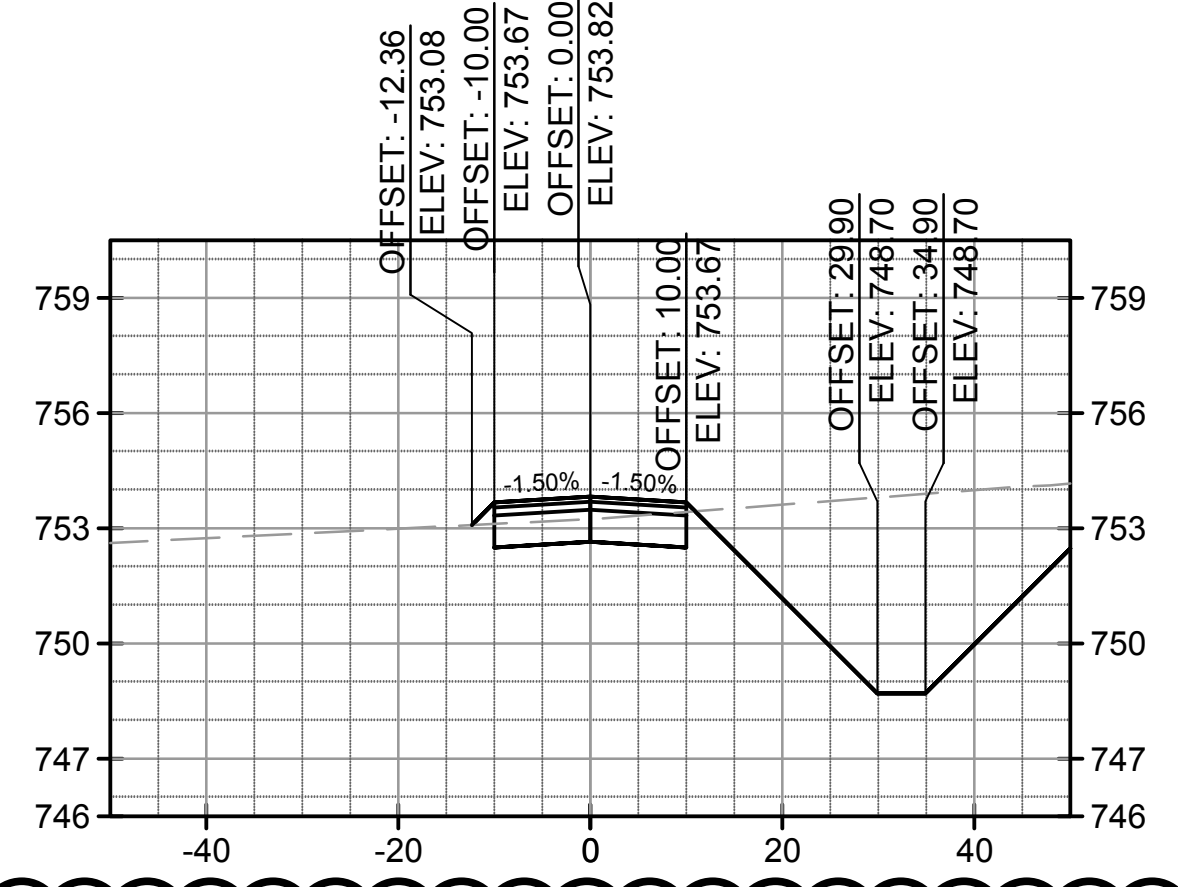
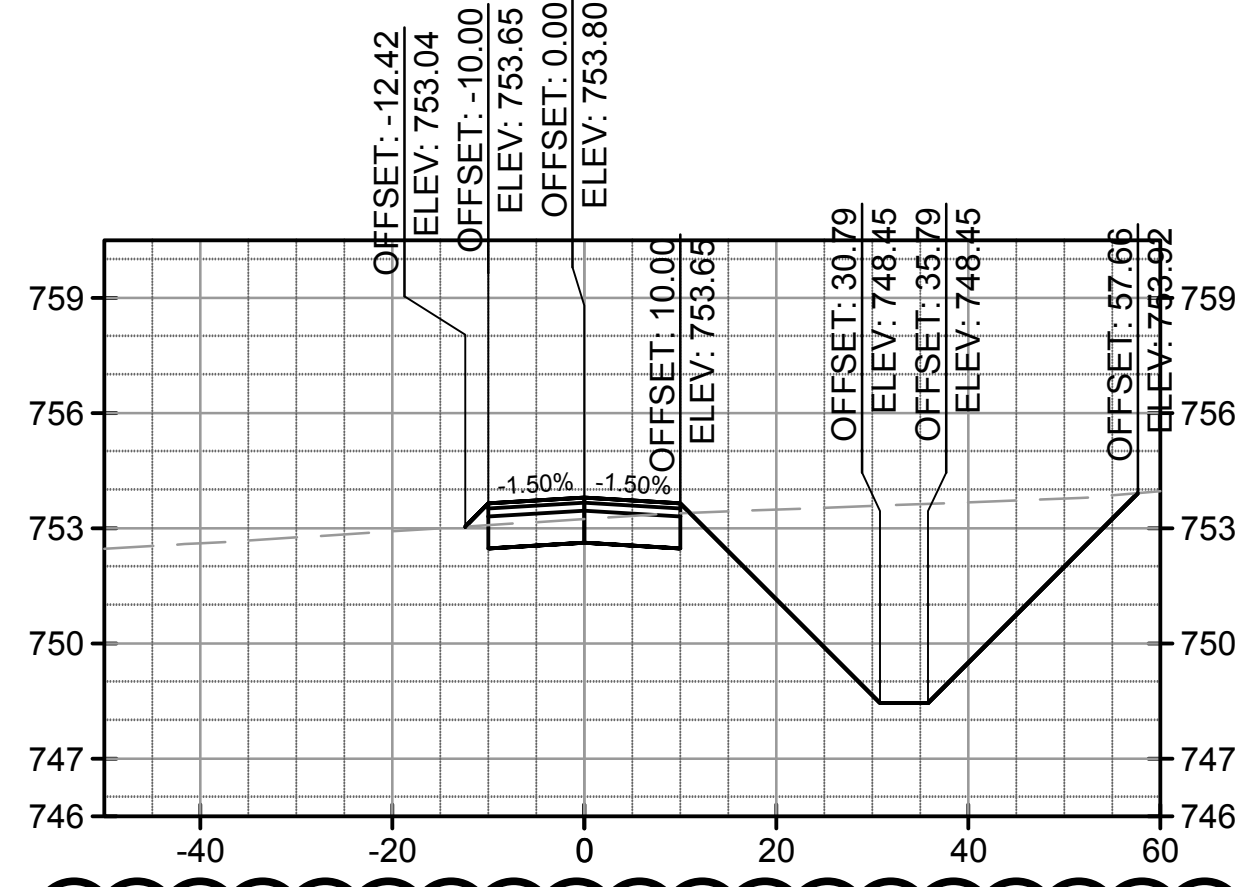
project	88849	contract	DPA-4300
drawing	<b>X-104</b>	rev.	
sheet	of	sheets	
file			

Scale For Microfining  
Millimeters  
Inches

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no.	date	by	ckd	description
A	03/18/16	AB	BQ	ISSUED FOR 80% REVIEW
B	04/15/16	AB	BQ	ISSUED FOR BID
C	06/01/16	JY	BQ	ISSUED FOR ADDENDUM NO. 1

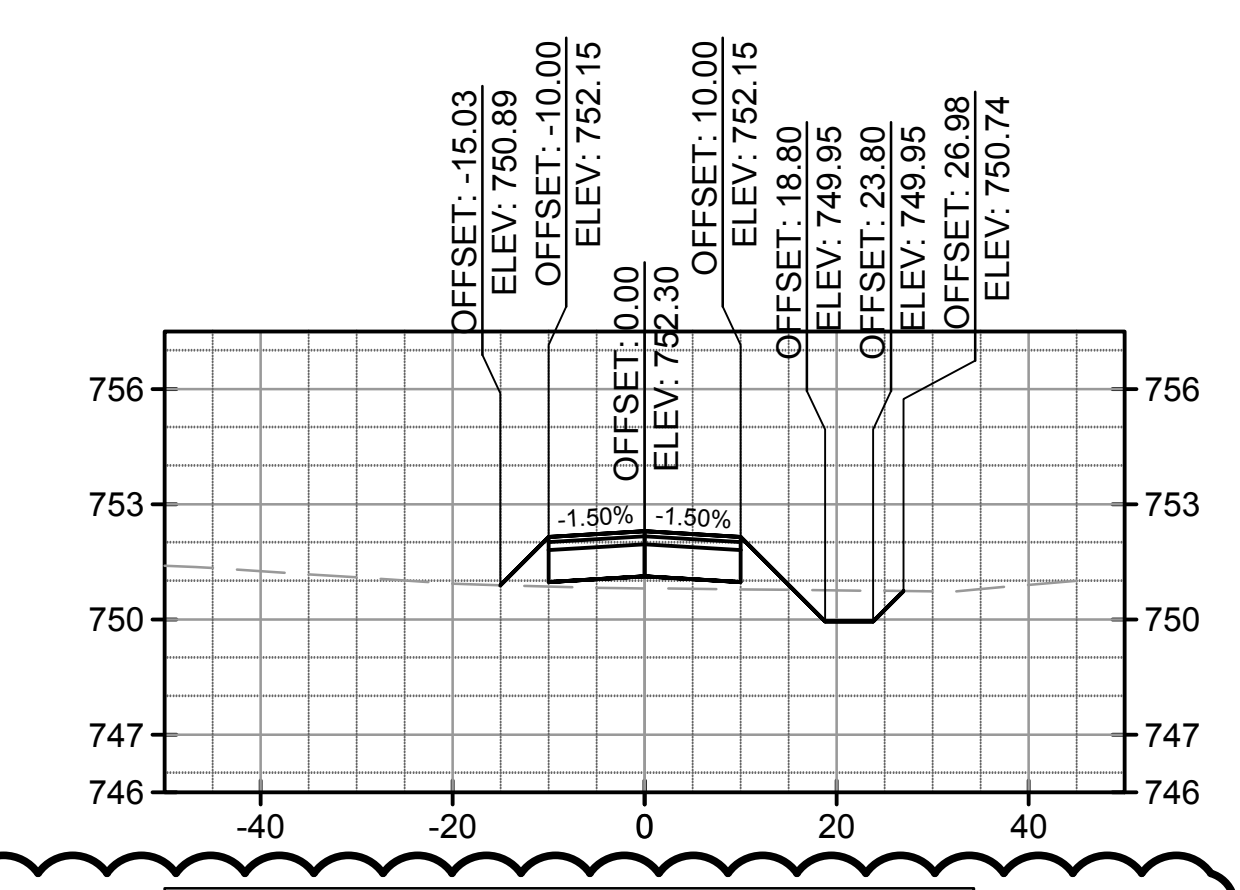
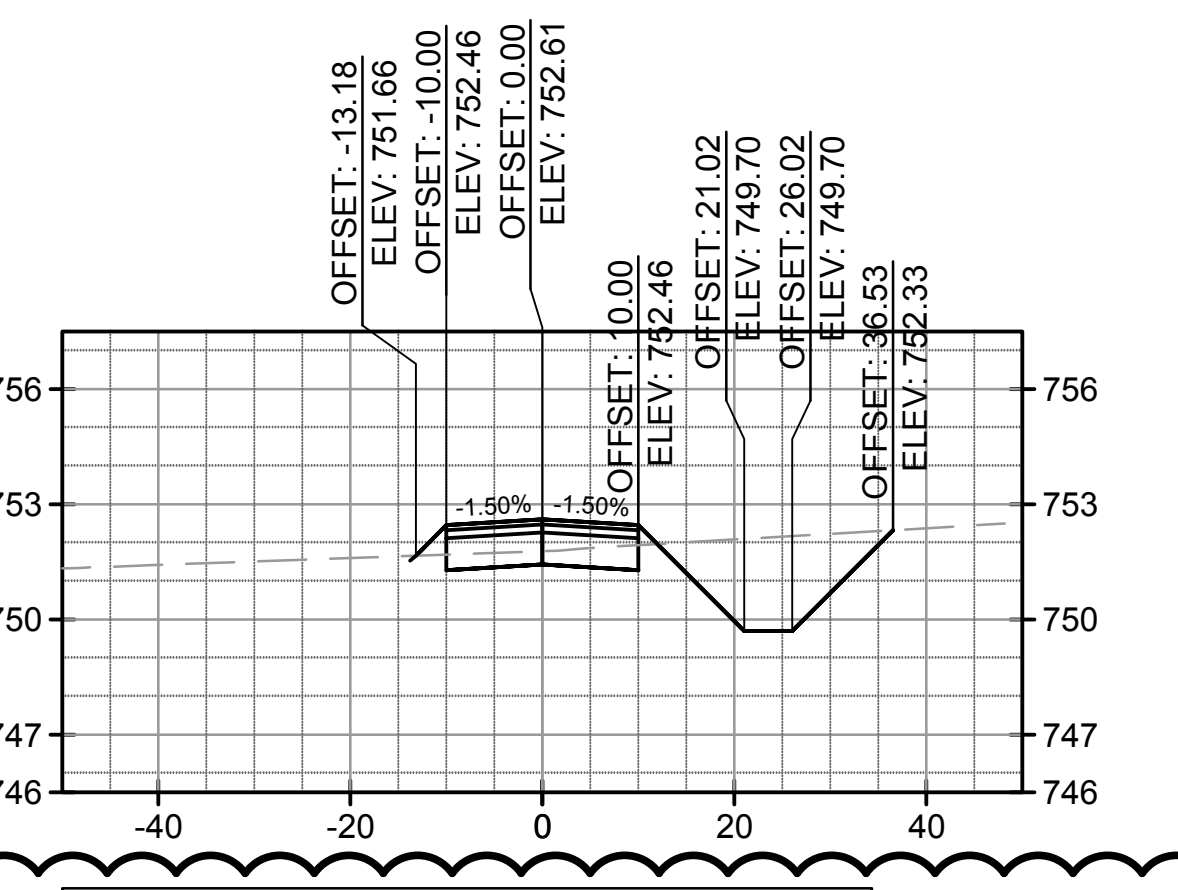
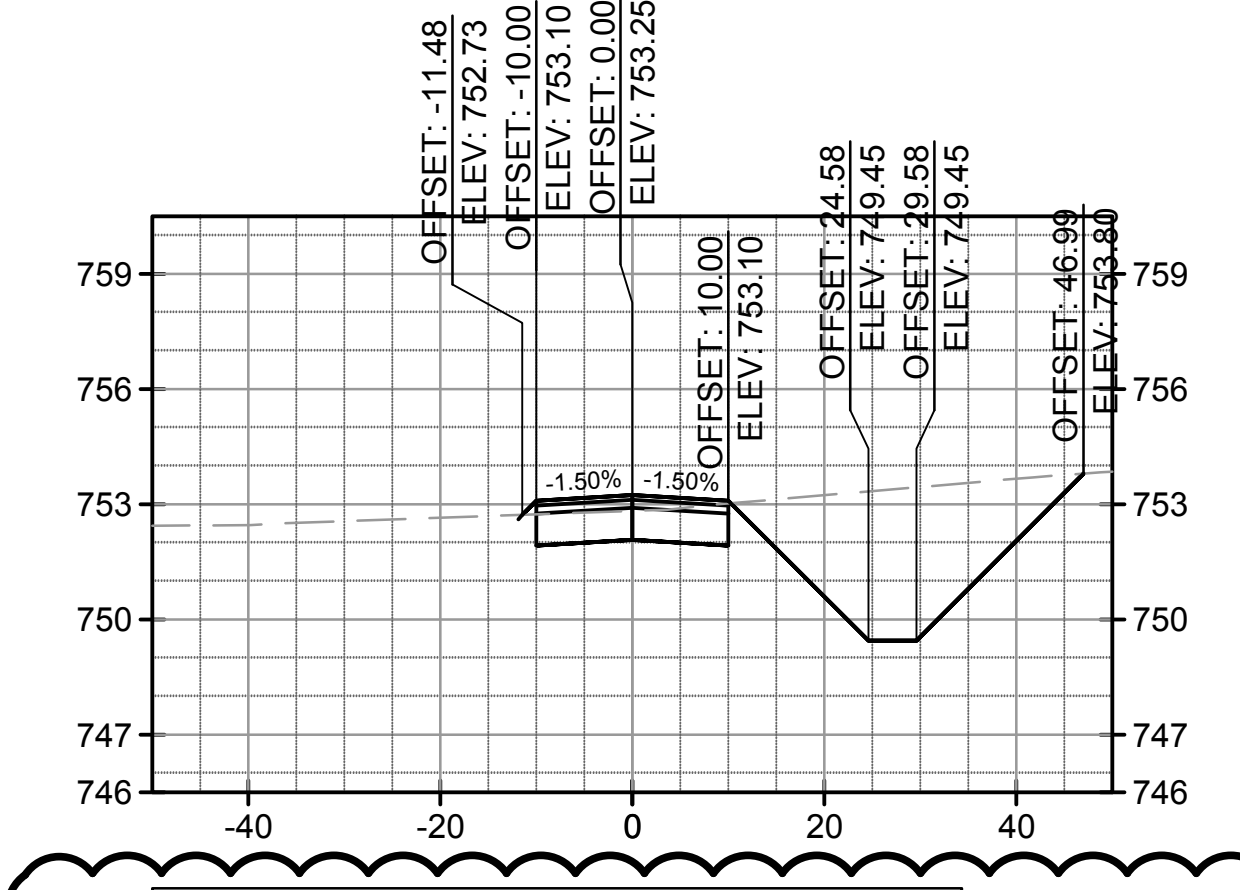


Material(s) at Station 36+50.00			
Material Name	Area	Volume	Cumulative Volume
CUT	146.64	278.87	5222.65
FILL	0.81	1.60	2080.66

Material(s) at Station 37+00.00			
Material Name	Area	Volume	Cumulative Volume
CUT	145.92	270.89	5493.54
FILL	0.78	1.47	2082.13

Material(s) at Station 37+50.00			
Material Name	Area	Volume	Cumulative Volume
CUT	138.52	263.37	5756.91
FILL	0.40	1.09	2083.22

Material(s) at Station 38+00.00			
Material Name	Area	Volume	Cumulative Volume
CUT	128.02	246.80	6003.71
FILL	0.89	1.19	2084.41



Material(s) at Station 38+50.00			
Material Name	Area	Volume	Cumulative Volume
CUT	99.31	210.49	6214.20
FILL	0.27	1.08	2085.49

Material(s) at Station 39+00.00			
Material Name	Area	Volume	Cumulative Volume
CUT	44.77	133.41	6347.61
FILL	1.73	1.85	2087.34

Material(s) at Station 39+50.00			
Material Name	Area	Volume	Cumulative Volume
CUT	6.65	47.61	6395.22
FILL	11.83	12.56	2099.90

Scale For Microfining  
Millimeters  
Inches

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**BURNS & MCDONNELL**  
 1431 OPUS PLACE, SUITE 400  
 DOWNERS GROVE, IL 60515  
 630-724-3200  
 LICENSEE NO. 184-001310

date	JANUARY 25, 2016	detailed	A. BUDNIK
designed	J. YAHYA	checked	B. QUINLAN

**DUPAGE AIRPORT AUTHORITY**  
 DuPage, Illinois

**WEST END PERIMETER ROADWAY**

CROSS SECTIONS

project	88849	contract	DPA-4300
drawing	<b>X-105</b>	rev.	
sheet	of	sheets	
file			

STATE JOB #- - - -

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 SCHEDULE OF PRICES  
 CONTRACT NUMBER - DU081

ECMS002 DTGECM03 ECMR003 PAGE 1  
 RUN DATE - 06/01/16  
 RUN TIME - 223301

COUNTY NAME	CODE	DIST	AIRPORT NAME	FED PROJECT	ILL PROJECT
DUPAGE	043	01	DUPAGE	3-17-SBGP-105/111	DP-A -4300

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
AR108090	1/C #10 XLP-USE	L.F.	1,782.000	X	=		
AR108158	1/C #8 5 KV UG CABLE IN UD	L.F.	63.000	X	=		
AR108710	1/C #10 COUNTERPOISE	L.F.	594.000	X	=		
AR108806	6 PAIR CONTROL CABLE	L.F.	594.000	X	=		
AR108960	REMOVE CABLE	L.F.	790.000	X	=		
AR110212	2" STEEL DUCT, DIRECT BURY	L.F.	30.000	X	=		
AR110216	5" STEEL DUCT, DIRECT BURY	L.F.	60.000	X	=		
AR110550	SPLIT DUCT	L.F.	120.000	X	=		
AR110810	JUNCTION BOX	EACH	1.000	X	=		
AR150520	MOBILIZATION	L.S.	1.000	X	=		
AR150530	TRAFFIC MAINTENANCE	L.S.	1.000	X	=		
AR152410	UNCLASSIFIED EXCAVATION	C.Y.	7,000.000	X	=		
AR152520	UNDERCUT	S.Y.	833.000	X	=		
AR156510	SILT FENCE	L.F.	3,000.000	X	=		
AR156520	INLET PROTECTION	EACH	15.000	X	=		

DUPAGE  
DUPAGE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
SCHEDULE OF PRICES  
CONTRACT NUMBER - DU081

ECMS002 DTGECM03 ECMR003 PAGE 2  
RUN DATE - 06/01/16  
RUN TIME - 223301

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
AR156531	EROSION CONTROL BLANKET	S.Y.	11,000.000	X	=		
AR162506	CLASS E FENCE 6'	L.F.	200.000	X	=		
AR162900	REMOVE CLASS E FENCE	L.F.	549.000	X	=		
AR209600	GEOTEXTILE FABRIC	S.Y.	1,467.000	X	=		
AR209610	CRUSHED AGG. BASE COURSE - 10"	S.Y.	8,532.000	X	=		
AR401610	BITUMINOUS SURFACE COURSE	TON	700.000	X	=		
AR401900	REMOVE BITUMINOUS PAVEMENT	S.Y.	141.000	X	=		
AR403610	BITUMINOUS BASE COURSE	TON	1,150.000	X	=		
AR602510	BITUMINOUS PRIME COAT	GAL.	3,905.000	X	=		
AR603510	BITUMINOUS TACK COAT	GAL.	1,171.000	X	=		
AR620520	PAVEMENT MARKING-WATERBORNE	S.F.	2,867.000	X	=		
AR620900	PAVEMENT MARKING REMOVAL	S.F.	934.000	X	=		
AR701164	PRECAST CONC. BOX CULVERT 6' X4'	L.F.	67.000	X	=		
AR701512	12" RCP, CLASS IV	L.F.	306.000	X	=		
AR701515	15" RCP, CLASS IV	L.F.	253.000	X	=		



DUPAGE  
 DUPAGE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 SCHEDULE OF PRICES  
 CONTRACT NUMBER - DU081

ECMS002 DTGECM03 ECMR003 PAGE 3  
 RUN DATE - 06/01/16  
 RUN TIME - 223301

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
AR701524	24" RCP, CLASS IV	L.F.	171.000	X	=		
AR751540	MANHOLE 4'	EACH	1.000	X	=		
AR751560	MANHOLE 6'	EACH	1.000	X	=		
AR751600	CATCH BASIN	EACH	1.000	X	=		
AR751906	REMOVE CATCH BASIN	EACH	1.000	X	=		
AR752412	PRECAST REINFORCED CONC. FES 12"	EACH	13.000	X	=		
AR752424	PRECAST REINFORCED CONC. FES 24"	EACH	6.000	X	=		
AR752615	CONCRETE HEADWALL 15"	EACH	3.000	X	=		
AR754410	COMB CONCRETE CURB & GUTTER	L.F.	47.000	X	=		
AR754904	REMOVE COMB CURB & GUTTER	L.F.	47.000	X	=		
AR803060	INFILTRATION TRENCH	S.Y.	150.000	X	=		
AR803061	CORE & CONNECT TO EXISTING BOX CU	EACH	2.000	X	=		
AR803062	48" DIA. CATCH BASIN W/18R SNOOT	EACH	5.000	X	=		
AR803063	BOX CULVERT END SECTION	EACH	2.000	X	=		
AR803064	BOX CULVERT GRATING	L.S.	1.000	X	=		

DUPAGE  
 DUPAGE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 SCHEDULE OF PRICES  
 CONTRACT NUMBER - DU081

ECMS002 DTGECM03 ECMR003 PAGE 4  
 RUN DATE - 06/01/16  
 RUN TIME - 223301

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
AR803065	CONSTRUCTION ENTRANCE	L.S.	1.000 X			=	
AR901510	SEEDING	ACRE	4.260 X			=	
AR908510	MULCHING	ACRE	4.260 X			=	
AR910200	ROADWAY SIGN	EACH	10.000 X			=	
						TOTAL \$	

NOTE:

1. EACH PAY ITEM SHOULD HAVE A UNIT PRICE AND A TOTAL PRICE.
2. THE UNIT PRICE SHALL GOVERN IF NO TOTAL PRICE IS SHOWN OR IF THERE IS A DISCREPANCY BETWEEN THE PRODUCT OF THE UNIT PRICE MULTIPLIED BY THE QUANTITY.
3. IF A UNIT PRICE IS OMITTED, THE TOTAL PRICE WILL BE DIVIDED BY THE QUANTITY IN ORDER TO ESTABLISH A UNIT PRICE.
4. A BID MAY BE DECLARED UNACCEPTABLE IF NEITHER A UNIT PRICE NOR A TOTAL PRICE IS SHOWN.