

# DUPAGE AIRPORT AUTHORITY

## CONSTRUCT NORTH END PERIMETER ROADWAY



MARCH 2017

BURNS & MCDONNELL  
PROJECT: 95738

IL PROJECT NO. DPA-4488  
SBG PROJECT NO. 3-17-SBGP-129/133

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

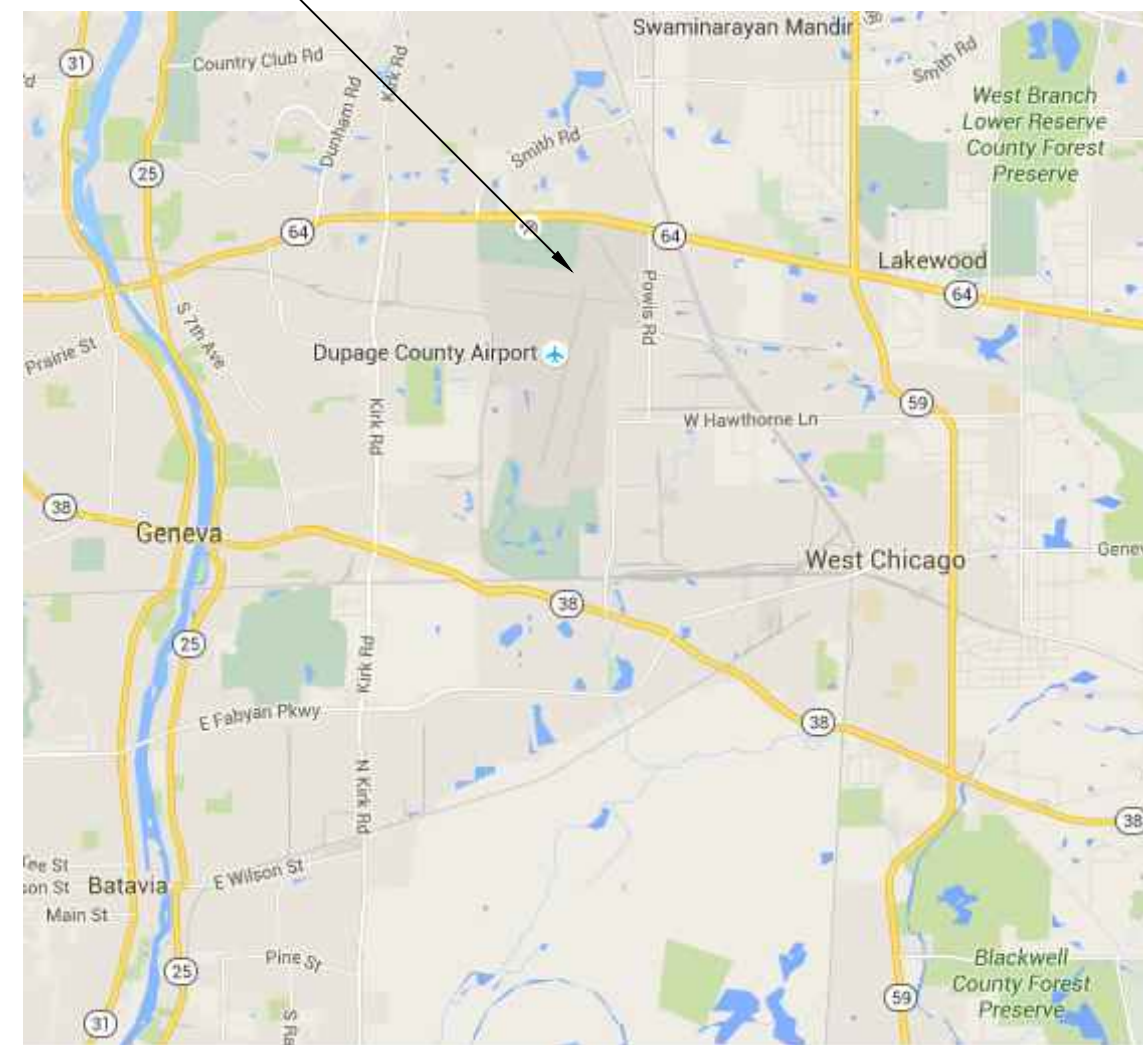
**811** Know what's below.  
Call before you dig.

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.

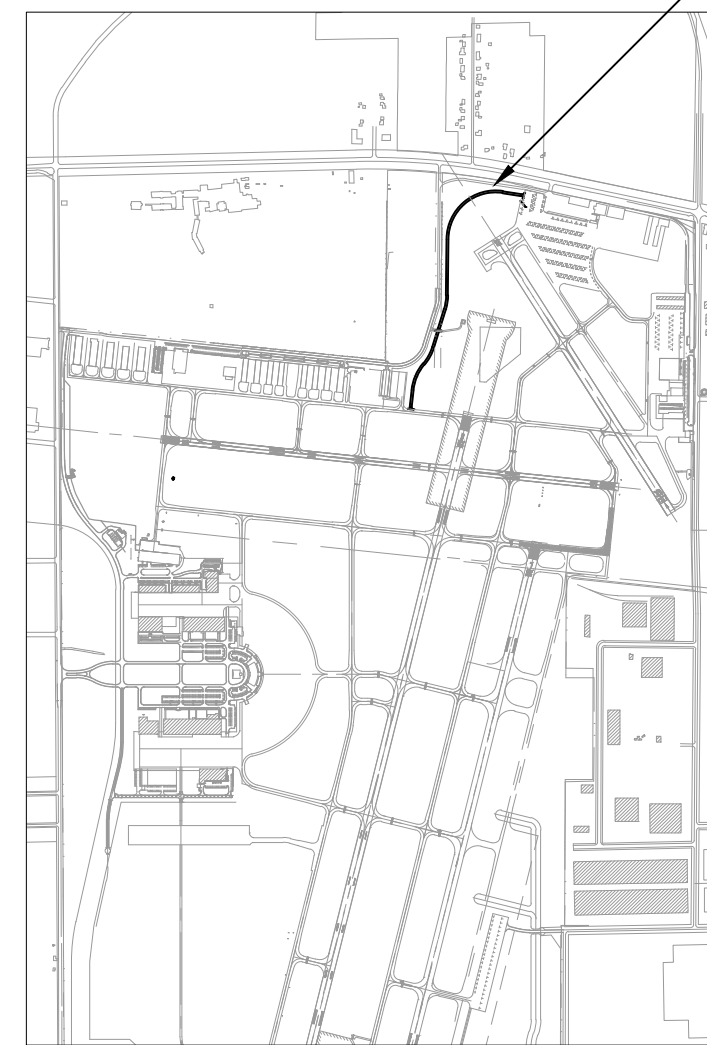
CALL J.U.L.I.E. FOR UTILITY INFORMATION AT 811.

PROJECT LOCATION

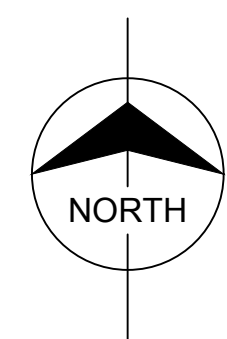


LOCATION MAP

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. QUINN**  
062-056758  
REGISTERED  
PROFESSIONAL  
ENGINEER  
OF  
ILLINOIS

SUBMITTED BY Bird EXP. 11/30/17

DATE 3/3/17

**DPA**

DuPage Airport

2700 INTERNATIONAL DRIVE  
SUITE 200  
WEST CHICAGO, IL 60185

APPROVED BY David Bird  
DAVID BIRD - EXECUTIVE DIRECTOR

DATE March 1, 2017

no.	date	by	ckd	description
	3/3/17	JY	BQ	100% SUBMITTAL



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
	3/3/17	JY	BQ	100% SUBMITTAL

DWG NO.	DRAWING TITLE
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+10.00 TO STA. 20+50.00
CS-102	ROADWAY PLAN AND PROFILE STA. 20+50.00 TO STA. 31+25.00
CS-103	ROADWAY PLAN AND PROFILE STA. 31+25.00 TO STA. 39+41.38
C-100	TYPICAL SECTIONS
C-101	CML DETAILS
CG-101	GRADING PLAN
CG-102	GRADING PLAN
CG-103	GRADING PLAN
CU-101	DRAINAGE AND SOIL EROSION SEDIMENT CONTROL PLAN
CU-102	DRAINAGE AND SOIL EROSION SEDIMENT CONTROL PLAN
CU-103	DRAINAGE AND SOIL EROSION SEDIMENT CONTROL PLAN
CU-201	DRAINAGE, SOIL EROSION SEDIMENT CONTROL DETAILS
CU-202	DRAINAGE, SOIL EROSION SEDIMENT CONTROL DETAILS
CU-203	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-201	PAVEMENT MARKING DETAILS
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	AR108158	1/C #8 5KV UG CABLE IN UD	LF	220
4	AR108960	REMOVE CABLE	LF	220
5	AR110212	2" STEEL DUCT, DIRECT BURY	LF	60
6	AR110810	JUNCTION BOX	EA	2
7	AR110946	ADJUST ELECTRICAL HANDHOLE	EA	1
8	AR152410	UNCLASSIFIED EXCAVATION	CY	5,859
9	AR152441	ON-SITE BORROW	CY	1,905
10	AR152520	UNDERCUT	SY	1,100
11	AR156510	SILT FENCE	LF	3,440
12	AR156520	INLET PROTECTION	EA	10
13	AR156531	EROSION CONTROL BLANKET	SY	13,500
14	AR209600	GEOTEXTILE FABRIC	SY	1,120
15	AR209610	CRUSHED AGG. BASE COURSE - 10"	SY	7,350
16	AR401610	BITUMINOUS SURFACE COURSE	TON	580
17	AR401900	REMOVE BITUMINOUS PAVEMENT	SY	180
18	AR403610	BITUMINOUS BASE COURSE	TON	970
19	AR602510	BITUMINOUS PRIME COAT	GAL	3,400
20	AR603510	BITUMINOUS TACK COAT	GAL	1,100
21	AR620520	PAVEMENT MARKING - WATERBORNE	SF	2,210
22	AR701512	12" RCP, CLASS IV	LF	692
23	AR701900	REMOVE PIPE	LF	45
24	AR752412	PRECAST REINFORCED CONC. FES 12"	EA	19
25	AR751550	MANHOLE 5'	EA	1
26	AR752900	REMOVE END SECTION	EA	2
27	AR803062	48" DIA. CATCH BASIN W/ 18R SNOUT & BIOSKIRT	EA	3
28	AR803065	CONSTRUCTION ENTRANCE	LS	1
29	AR803066	CORE & CONNECT TO EXISTING BOX MANHOLE	EA	1
30	AR803068	60" DIA. CATCH BASIN W/ 30R SNOUT & 2 BIOSKIRT	EA	1
31	AR803069	ADJUST EXISTING SLOPE BOX	EA	1
32	AR803071	COIR WATTLE	EA	40
33	AR901510	SEEDING	ACRE	2.70
34	AR908510	MULCHING	ACRE	2.70
35	AR910200	ROADWAY SIGN	EA	8

**ABBREVIATIONS:**

AC	ADVISORY CIRCULAR
AOA	AIR OPERATIONS AREA
ARFF	AIRPORT RESCUE AND FIRE FIGHTING
ATCT	AIR TRAFFIC CONTROL TOWER
AWOS	AUTOMATED WEATHER OBSERVATION SYSTEM
BM	BENCHMARK
BP	BEGINNING OF PROFILE
BVCE	BEGIN VERTICAL CURVE ELEVATION
BVCS	BEGIN VERTICAL CURVE STATION
CL	CENTERLINE
COMM	COMMUNICATIONS
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
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	DECEMBER 1, 2016	detailed	J. YAHYA
designed	J. YAHYA	checked	B. QUINLAN



DuPage, Illinois  
**NORTH END PERIMETER ROADWAY**  
INDEX OF DRAWINGS AND  
SUMMARY OF QUANTITIES

IL proj:	DPA-4488	contract	DU082
BMcD:	95738	drawing	rev.
<b>G-002</b>			
sheet	2	of	32 sheets
file			

# ACCESS AND SAFETY NOTES:

## I. ACCESS AND VEHICLE PARKING:

- A. ACCESS POINT AND HAUL ROUTE FOR ALL CONTRACTOR PERSONNEL, VEHICLES AND EQUIPMENT ARE AS SHOWN ON THE ACCESS, SAFETY AND PHASING PLAN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN PERMITS AND COORDINATE OFF SITE HAUL ROUTES WITH THE APPROPRIATE OWNER WHO HAS JURISDICTION OVER THE AFFECTED ROUTE. ON-SITE HAUL ROUTES SHALL BE MAINTAINED BY THE CONTRACTOR AND SHALL BE RESTORED TO THEIR ORIGINAL CONDITION UPON COMPLETION OF BEING USED AS A HAUL ROUTE. HAUL ROUTES ARE TO REMAIN CLEAN AND PASSABLE AT ALL TIMES.
- B. CONTRACTOR SHALL FURNISH AND INSTALL A PROFESSIONALLY PAINTED SIGN MEETING OWNER APPROVAL AT THE CONSTRUCTION ENTRANCE TO DIRECT MATERIAL SUPPLIERS AND EMPLOYEES TO THE CONSTRUCTION SITE. THE SIGN SHALL READ "CONSTRUCTION VEHICLES ONLY - NO VENDORS ALLOWED".
- C. ALL CONTRACTOR VEHICLES AND PERSONNEL SHALL REMAIN WITHIN THE DESIGNATED CONSTRUCTION LIMITS OR HAUL ROUTES. NO CONTRACTOR VEHICLES WILL BE ALLOWED ON OTHER AIRFIELD OPERATIONS AREAS.
- D. THE LIMITS OF CONSTRUCTION, MATERIAL STORAGE AREAS, EQUIPMENT STORAGE AREA, PARKING AREA AND OTHER AREAS DEFINED AS REQUIRED FOR THE CONTRACTOR'S EXCLUSIVE USE DURING CONSTRUCTION SHALL BE MARKED BY THE CONTRACTOR. TEMPORARY BARRICADES, FLAGGING AND FLASHING WARNING LIGHTS WILL BE REQUIRED AT CRITICAL ACCESS POINTS. TYPE OF MARKING AND WARNING DEVICES SHALL BE APPROVED BY THE ENGINEER AND AIRPORT MANAGER.
- E. ALL ACCESS GATES SHALL BE KEPT CLOSED DURING CONTRACTOR'S WORK HOURS. THE CONTRACTOR SHALL CLOSE AND LOCK ACCESS GATE AT THE COMPLETION OF EACH WORK DAY. AIRPORT MANAGER WILL PROVIDE LOCK AND KEYS FOR ACCESS GATE.

## II. COORDINATION AND COMMUNICATION DURING CONSTRUCTION:

- A. CONTRACTOR SHALL ADVISE AND THEN VERIFY WITH RESIDENT ENGINEER 72 HOURS IN ADVANCE AS TO THE NEED FOR NOTICES TO AIRMEN (NOTAMS). NO RUNWAY, TAXIWAY OR APRON SHALL BE CLOSED WITHOUT APPROVAL FROM THE AIRPORT MANAGER AND THE RESIDENT ENGINEER.
- B. CONTRACTOR SHALL APPOINT A CONSTRUCTION SUPERINTENDENT, SUBJECT TO THE APPROVAL OF THE AIRPORT MANAGER, WHO SHALL BE PRESENT ON THE CONSTRUCTION SITE AT ALL TIMES DURING WORKING HOURS WHILE JOB IS IN PROGRESS. THE SUPERINTENDENT SHALL BE DESIGNATED THE RESPONSIBLE CONTRACTOR'S REPRESENTATIVE WHO SHALL BE AVAILABLE ON A 24-HOUR BASIS.
- C. PRIOR TO CONSTRUCTION IN THE RESPECTIVE WORK AREAS, THE CONTRACTOR SHALL CORDON OFF THE WORK AREA AS SHOWN ON DRAWING G-004 BY USING BARRICADES AS DETAILED ON G-005. CONTRACTOR SHALL MAINTAIN, MOVE AND REMOVE BARRICADES (AS DIRECTED) TO DELINEATE AREAS CLOSED TO AIRCRAFT TRAFFIC.
- D. PRIOR TO COMMENCEMENT OF CONSTRUCTION, CONTRACTOR SHALL SUBMIT TO AIRPORT MANAGER THE NAME AND TELEPHONE NUMBER OF THE INDIVIDUAL(S) WHO WILL BE ON CALL 24 HOURS PER DAY FOR EMERGENCY MAINTENANCE OF AIRPORT HAZARD LIGHTING & BARRICADES.
- E. CONTRACTOR SHALL FURNISH AN AIRPORT RADIO AND CONTINUOUSLY MONITOR AIRCRAFT TRAFFIC ON AND AROUND THE AIRPORT. THE FREQUENCY FOR ATCT GROUND CONTROL IS 121.800.
- F. PRIOR TO THE COMPLETION OF EACH WORK DAY, ALL AIRFIELD PAVEMENT SURFACES WITHIN AND ADJACENT TO THE WORK AREA AND THOSE USED AS HAUL ROUTES SHALL BE SWEEPED CLEAN.

## III. TRAFFIC CONTROL:

- A. ALL CONSTRUCTION EQUIPMENT AND VEHICLES SHALL BE MARKED WITH COMPANY PAINT DESIGNS, INSIGNIAS OR OTHER COMPANY MARKINGS, WHICH ARE CLEARLY VISIBLE. CONTRACTOR SHALL PROVIDE EACH VEHICLE WITH A FLAG ON A STAFF ATTACHED TO THE VEHICLE SO THAT THE FLAG WILL BE READILY VISIBLE. THE FLAG SHOULD BE AT LEAST 3 FOOT SQUARE, AND HAVE A CHECKERED PATTERN OF INTERNATIONAL ORANGE AND WHITE.
- B. CONSTRUCTION EQUIPMENT SHALL HAVE AUTOMATIC SIGNALING DEVICES TO SOUND AN ALARM WHEN MOVING IN REVERSE.
- C. ONLY RUBBER Tired VEHICLES WILL BE ALLOWED ON PAVEMENT.
- D. NO PEDESTRIAN TRAFFIC OUTSIDE THE CONSTRUCTION WORK SITE WILL BE PERMITTED.

- E. ANY DAMAGE TO AIRPORT ROADS, AIRFIELD PAVEMENT, PARKING AREAS, STORAGE AREAS OR TURF AREAS DUE TO CONSTRUCTION EQUIPMENT OR CONSTRUCTION TRAFFIC SHALL BE REPAIRED TO ORIGINAL CONDITION TO THE SATISFACTION OF, AND AT NO EXPENSE TO THE OWNER.
- F. ANY WORKERS AND/OR EQUIPMENT NOT IN COMPLIANCE WITH SAFETY PLAN SHALL IMMEDIATELY BE REMOVED FROM THE WORK AREA AND THEY WILL NOT BE PERMITTED TO WORK ON THE SITE THROUGHOUT THE REMAINDER OF THE PROJECT.

## IV. EQUIPMENT AND STOCKPILE HEIGHT:

- A. THE MAXIMUM ALLOWABLE HEIGHT OF CONSTRUCTION EQUIPMENT OPERATING IN THE AOA SHALL BE IN CONFORMANCE WITH THE FAA FORM 7460 DEVELOPED FOR THIS PROJECT. EQUIPMENT MUST NOT PENETRATE THE ROFA OF ANY ACTIVE RUNWAY AS DEFINED IN FAA AC 150/5300-13A, (CURRENT EDITION).
- B. CONTRACTOR SHALL NOT STOCKPILE CONSTRUCTION MATERIALS, SPOILS, DEBRIS OR REFUSE IN ANY AREA WHERE SUCH STOCKPILES WOULD PENETRATE APPROACH SURFACES. STOCKPILING OF MATERIAL WITHIN THE SAFETY AREA OF AN ACTIVE RUNWAY OR TAXIWAY IS PROHIBITED.
- C. ALL STOCKPILES ADJACENT TO ACTIVE RUNWAY SAFETY AREAS OR OBSTACLE FREE ZONES SHALL BE IDENTIFIED WITH A 360 DEGREE RED OBSTRUCTION LIGHT PLACED AT THE HIGHEST POINT OF THE STOCKPILE.
- D. STOCKPILED MATERIAL SHALL BE CONTAINED IN A MANNER TO PREVENT MOVEMENT RESULTING FROM AIRCRAFT PROP WASH OR WIND CONDITIONS. IN ADDITION, STOCKPILED MATERIAL SHALL HAVE SILT FENCE PLACED AROUND IT TO PREVENT FOD FROM MOVING ONTO THE AIRFIELD PAVEMENTS OR POLLUTING WATERCOURSES.

## V. EXCAVATION AND TRENCHES:

- A. OPEN TRENCHES AND EXCAVATIONS AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH ORANGE BARRICADES WITH FLASHING RED LIGHTS ACCEPTABLE TO THE AIRPORT MANAGER.
- B. ALL CONSTRUCTION AREAS THAT POSE A HAZARD TO OPERATING AIRCRAFT SHALL BE PROPERLY MARKED WITH LOW-PROFILE BARRICADES.
- C. ALL BARRICADES LOCATED WITHIN OR ADJACENT TO AREAS OF AIRCRAFT OPERATION SHALL BE LOW PROFILE TYPE AS DETAILED ON G-005.
- D. LOW PROFILE BARRICADES SHALL BE KEPT OUTSIDE THE LIMITS OF ANY ACTIVE RUNWAY SAFETY AREA OR TAXIWAY SAFETY AREA.

## VI. OTHER SAFETY REQUIREMENTS:

- A. CONTRACTOR SHALL MAINTAIN SAFETY PRACTICES THAT CONFORM TO OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS.
- B. DEBRIS - WASTE AND LOOSE MATERIALS CAPABLE OF CAUSING DAMAGE TO AIRCRAFT AND HELICOPTER LANDING GEAR, PROPELLERS AND ROTORS SHALL NOT BE LEFT WITHIN ACTIVE AIRCRAFT MOVEMENT AREAS. MATERIAL DROPPED WITHIN THESE AREAS SHALL BE REMOVED IMMEDIATELY.
- C. THE CONTRACTOR SHALL CONTROL BLOWING DUST FROM ANY HAUL ROUTE OR WORK AREA REGARDLESS OF SOURCE.

## VII. CONTRACTOR SAFETY PLAN SUBMITTALS:

- A. CONTRACTOR SHALL FURNISH A SAFETY PLAN COMPLIANCE DOCUMENT (SPCD) THAT PROVIDES DETAILED INFORMATION REGARDING COMPLIANCE WITH THE PROJECT SAFETY PLAN IN CONJUNCTION WITH HIS/HER PROJECT SCHEDULE. CONTRACTOR SHALL PROVIDE SPCD 10 DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING. INFORMATION SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING ITEMS:
  1. PROPOSED ACCESS POINTS, STAGING AREA AND HAUL ROUTES.
  2. ANY TEMPORARY MARKINGS TO BE USED.
  3. THE LOCATION AND TYPE OF BARRICADES OR OTHER TRAFFIC CONTROL DEVICES.
  4. AREAS TO WHICH CONSTRUCTION OPERATIONS WILL BE LIMITED, ALONG WITH PROPOSED MEASURES TO MINIMIZE THE POSSIBILITY OF CONTRACTOR EQUIPMENT AND/OR WORKERS ACCIDENTALLY ENTERING ANY AOA.
  5. ANY REQUESTED TEMPORARY AMENDMENTS TO THE AIRPORT SECURITY PLAN FOR SPECIAL CONDITION OR MODIFICATIONS.

- B. CONTRACTOR SPCD SHALL COMPLY WITH ALL REQUIREMENTS INDICATED IN THESE DRAWINGS, SPECIFICATIONS AND SPECIAL PROVISIONS, AND FAA ADVISORY CIRCULAR (AC) 150/5370-2F, OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION, (CURRENT EDITION).

## GENERAL NOTES:

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AND PAY FOR ALL APPLICABLE PERMITS, FEES AND LICENSES FOR CONSTRUCTION AND EQUIPMENT.
2. TRAFFIC MAINTENANCE, INCLUDING BUT NOT LIMITED TO, BARRICADES, RUNWAY CLOSURE MARKINGS, ETC SHALL BE PAID FOR UNDER PAY ITEM NO. AR150530.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONSTANT COORDINATION BETWEEN THE SUBCONTRACTORS AND THE ENGINEER. ALL CONSTRUCTION ACTIVITIES PLANNED BY THE CONTRACTOR SHALL BE REVIEWED AND APPROVED BY THE ENGINEER AND OWNER.
4. LIMITS OF WORK SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO BEGINNING WORK.
5. THERE SHALL BE NO PERMANENT WASTE SITES ON AIRPORT PROPERTY. ANY TEMPORARY WASTE AREA WILL BE APPROVED BY THE ENGINEER AND SHALL BE KEPT IN A NEAT CONDITION. THE OWNER MAY DIRECT THE CONTRACTOR TO REMOVE WASTE IF NOT PROPERLY MAINTAINED.
6. PRIOR TO COMPLETION OF THE PROJECT THE CONTRACTOR SHALL RESTORE ALL DAMAGED AREAS (NOT DESIGNATED FOR CONSTRUCTION) TO THEIR PRE-CONSTRUCTION CONDITION.
7. LOCATING, FLAGGING, AND PROTECTING THE EXISTING UTILITIES DURING THE DURATION OF THE CONSTRUCTION PROJECT IS THE RESPONSIBILITY OF THE CONTRACTOR. THE LOCATIONS OF THE EXISTING UTILITIES ON THE CONTRACT DRAWINGS WERE OBTAINED FROM EXISTING RECORDS AND NO GUARANTEE OF ACCURACY OR SUFFICIENCY FOR THIS INFORMATION IS ASSUMED BY THE OWNER OR ENGINEER. ANY DAMAGE TO ANY EXISTING UTILITIES WILL BE REPAIRED OR REPLACED TO THE SATISFACTION OF AND AT NO EXPENSE TO THE OWNER.
8. THE CONSTRUCTION COVERED BY THE PLANS SHALL CONFORM TO ALL APPLICABLE STANDARDS AND SPECIFICATIONS OF THE FAA, IDOT AND IDOT-DOA.
9. ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL OF THE ENGINEER.
10. CONTRACTOR SHALL VERIFY WITH THE DUPAGE AIRPORT AUTHORITY AND ASSOCIATED UTILITY COMPANIES AND AGENCIES THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
11. CONTRACTOR SHALL EXAMINE THE FINISHED SURFACE, GRADES, TOPSOIL QUALITY, AND TOPSOIL DEPTH PRIOR TO LANDSCAPING. NO WORK SHALL BE CONDUCTED UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. CONTRACTOR SHALL VERIFY LIMITS OF WORK BEFORE STARTING.
12. CONTRACTOR SHALL IMPORT AND/OR PROVIDE SALVAGED TOPSOIL MEETING THE REQUIREMENTS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
13. THE CONTRACTOR SHALL FURNISH AND PLACE A MINIMUM OF 4.00 INCHES OF TOPSOIL, WITH THE LOWER PORTION BLENDED INTO EXISTING SOILS.
14. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE FOR ALL LANDSCAPE AND LAWN AREAS.
15. PROPOSED ELEVATIONS INDICATED ARE FOR TOP OF FINAL GRADE, PAVEMENT, OR STRUCTURE UNLESS INDICATED OTHERWISE.
16. ELEVATIONS DENOTED AS "MATCH" ARE INTENDED TO MEET EXISTING GRADE ELEVATIONS. CONTRACTOR SHALL VERIFY ELEVATIONS AT TIE-INS AND MATCH POINTS PRIOR TO BEGINNING CONSTRUCTION.

17. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. ANY DRAINAGE FEATURE OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO EXISTING CONDITIONS OR BETTER SUBJECT TO THE APPROVAL OF THE OWNER.
18. THE CONTRACTOR SHALL REMOVE STANDING WATER FROM THE PROJECT WORK LIMITS AS NECESSARY TO PROTECT SUBGRADE, SUBBASE, AND/OR BASE COURSE TO NEW PAVEMENT, SURROUNDING PAVEMENT-TO-REMAIN, OR OTHER COMPLETED WORKS.
19. CONNECTION TO EXISTING WATER, SEWER, AND STORM MAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL REQUIREMENTS OF ASSOCIATED UTILITY COMPANIES AND AGENCIES.
20. CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PAYING ALL UTILITY CONNECTION FEES AND OBTAINING ALL PERMITS REQUIRED FOR THE UTILITY CONSTRUCTION AND CONNECTIONS. THIS INCLUDES ALL FEES ASSOCIATED WITH CONNECTION CHARGES AND METERS.
21. THE CONTRACTOR MUST ATTEND A MANDATORY SAFETY TRAINING MEETING LED BY THE DAA STAFF PRIOR TO THE START OF CONSTRUCTION.


Millimeters

Scale For Microfilming

Inches

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no.	date	by	ckd	description
	3/3/17	JY	BQ	100% SUBMITTAL



**BURNS  
& MCDONNELL**

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

date DECEMBER 1, 2016	detailed J. YAHYA
designed J. YAHYA	checked B. QUINLAN



**DUPAGE AIRPORT  
AUTHORITY**

DuPage, Illinois

**NORTH END PERIMETER ROADWAY**  
CONTRACTOR ACCESS  
AND SAFETY NOTES

IL proj: DPA-4488	contract
BMcD: 95738	DU082
drawing	rev.
<b>G-003</b> —	
sheet 3	of 32 sheets
file	

A

B

C

D

E

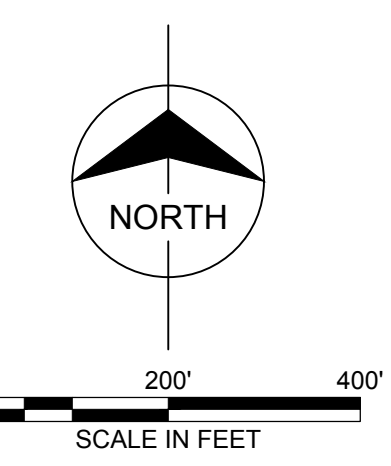
F

G

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I

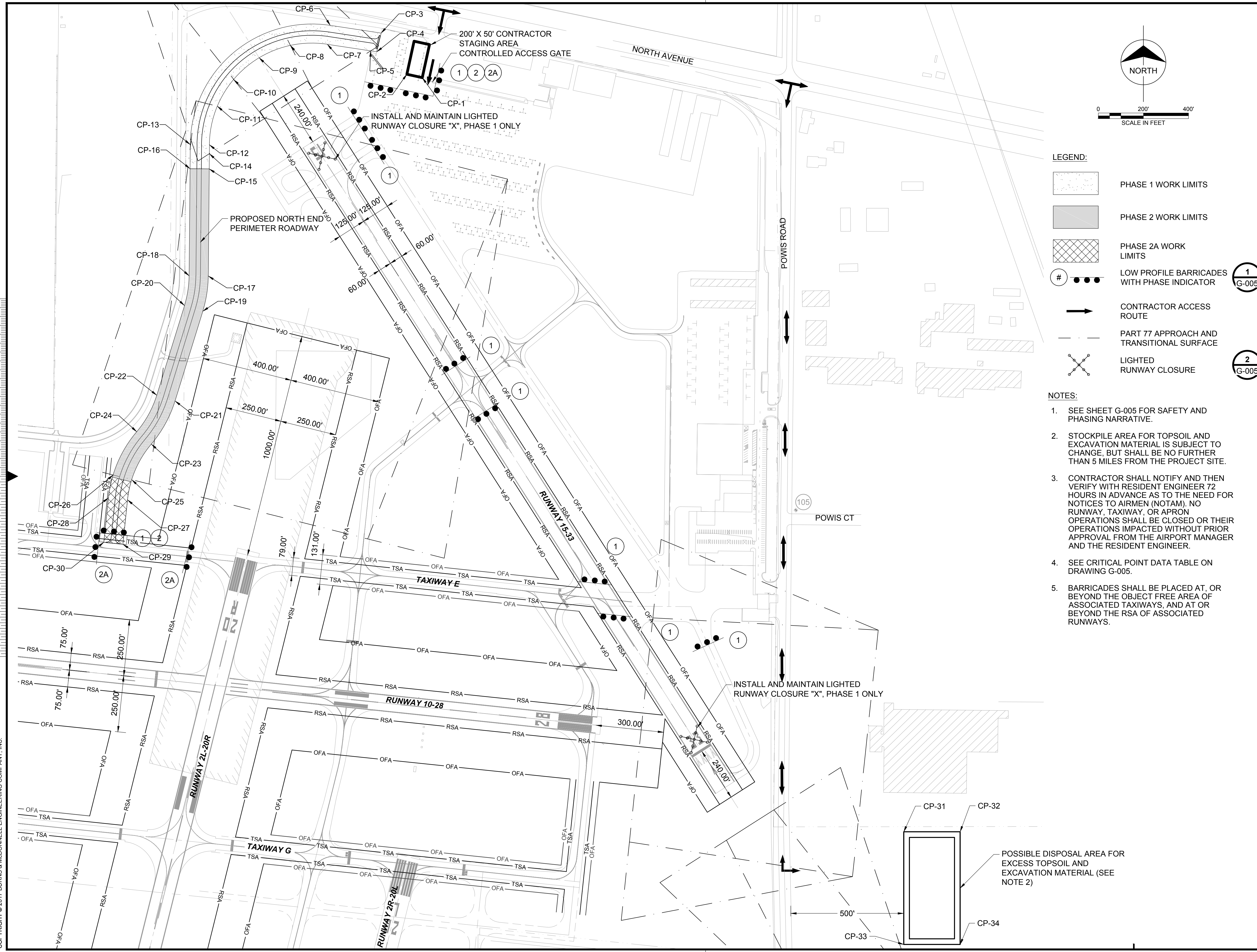
no.	date	by	ckd	description
3/3/17	JY	BQ		100% SUBMITTAL



**LEGEND:**

- PHASE 1 WORK LIMITS
- PHASE 2 WORK LIMITS
- PHASE 2A WORK LIMITS
- LOW PROFILE BARRICADES WITH PHASE INDICATOR (1 G-005)
- CONTRACTOR ACCESS ROUTE
- PART 77 APPROACH AND TRANSITIONAL SURFACE
- LIGHTED RUNWAY CLOSURE (2 G-005)

- NOTES:**
- SEE SHEET G-005 FOR SAFETY AND PHASING NARRATIVE.
  - STOCKPILE AREA FOR TOPSOIL AND EXCAVATION MATERIAL IS SUBJECT TO CHANGE, BUT SHALL BE NO FURTHER THAN 5 MILES FROM THE PROJECT SITE.
  - CONTRACTOR SHALL NOTIFY AND THEN VERIFY WITH RESIDENT ENGINEER 72 HOURS IN ADVANCE AS TO THE NEED FOR NOTICES TO AIRMEN (NOTAM). NO RUNWAY, TAXIWAY, OR APRON OPERATIONS SHALL BE CLOSED OR THEIR OPERATIONS IMPACTED WITHOUT PRIOR APPROVAL FROM THE AIRPORT MANAGER AND THE RESIDENT ENGINEER.
  - SEE CRITICAL POINT DATA TABLE ON DRAWING G-005.
  - BARRICADES SHALL BE PLACED AT, OR BEYOND THE OBJECT FREE AREA OF ASSOCIATED TAXIWAYS, AND AT OR BEYOND THE RSA OF ASSOCIATED RUNWAYS.



Millimeters  
 Scale For Microfining  
 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 4, 2017	detailed	J. YAHYA
designed	J. YAHYA	checked	B. QUINLAN

**DUPAGE AIRPORT  
AUTHORITY**

DuPage, Illinois

<b>NORTH END PERIMETER ROADWAY</b>	
CONTRACTOR ACCESS AND SAFETY PLAN	
IL proj: DPA-4488	contract
BMcD: 95738	DU082
drawing	rev.
<b>G-004</b>	
sheet 4	of 32 sheets
file	

no.	date	by	ckd	description
	3/3/17	JY	BQ	100% SUBMITTAL

**SAFETY & PHASING NARRATIVE**

**PHASE 1 - RUNWAY 15-33 CLOSED**  
 DURATION: 35 CALENDAR DAYS  
 MAJOR WORK ITEMS:  
 - PLACE AND MAINTAIN TRAFFIC CONTROL/ REMOVE TRAFFIC CONTROL  
 - INSTALL EROSION CONTROL  
 - EARTHWORK  
 - SAWCUT REMOVE EXISTING PAVEMENT  
 - INSTALL STORM SEWER  
 - AGGREGATE BASE INSTALLATION / SURFACE PAVING  
 - PAVEMENT MARKING AND SIGNAGE  
 GENERAL SAFETY REQUIREMENTS:  
 - REFER TO ACCESS AND SAFETY NOTES ON DRAWING G-003

**PHASE 2 - RUNWAY 2L-20R OPEN (RESTRICT RUNWAY TO VISUAL APPROACH)**  
 DURATION: 43 CALENDAR DAYS  
 MAJOR WORK ITEMS:  
 - PLACE AND MAINTAIN TRAFFIC CONTROL/ REMOVE TRAFFIC CONTROL  
 - INSTALL EROSION CONTROL  
 - EARTHWORK  
 - INSTALL STORM SEWER  
 - AGGREGATE BASE INSTALLATION / SURFACE PAVING  
 - ASPHALT DRIVEWAY RECONSTRUCTION  
 - PAVEMENT MARKING  
 GENERAL SAFETY REQUIREMENTS:  
 - REFER TO ACCESS AND SAFETY NOTES ON DRAWING G-003

**PHASE 2A - RUNWAY 2L-20R OPEN (RESTRICT RUNWAY TO VISUAL APPROACH)**  
 TAXIWAY E (EAST) CLOSED  
 DURATION: 10 CALENDAR DAYS  
 MAJOR WORK ITEMS:  
 - PLACE AND MAINTAIN TRAFFIC CONTROL/ REMOVE TRAFFIC CONTROL  
 - INSTALL EROSION CONTROL  
 - EARTHWORK  
 - INSTALL STORM SEWER  
 - AGGREGATE BASE INSTALLATION / SURFACE PAVING  
 - PAVEMENT MARKING AND SIGNAGE.  
 GENERAL SAFETY REQUIREMENTS:  
 - REFER TO ACCESS AND SAFETY NOTES ON DRAWING G-003

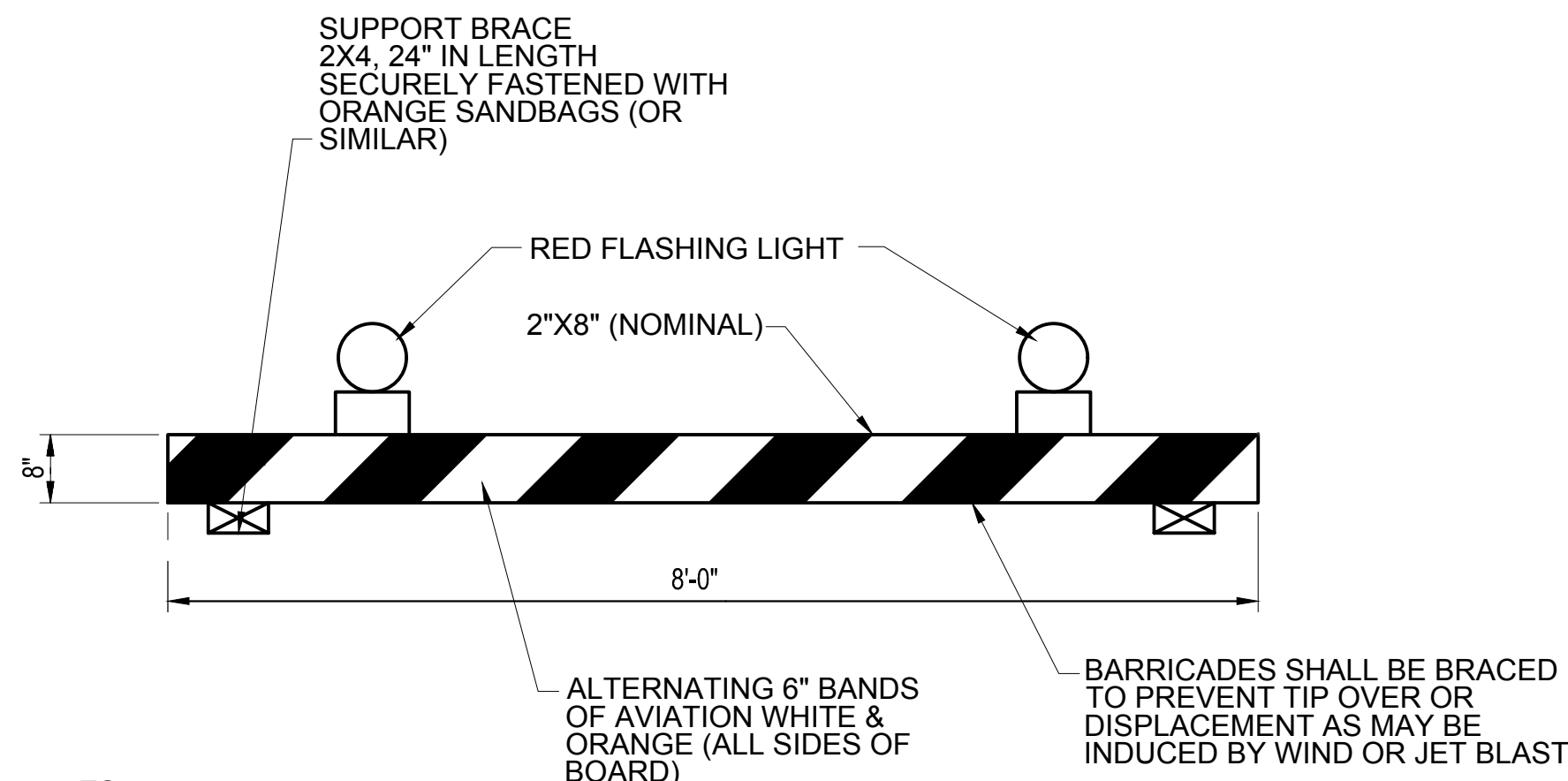
**TIME OF COMPLETION SCHEDULE**

ACTIVITY	DURATION (CALENDAR DAYS)	10	20	30	40	50	60	70	80
PHASE 1	35								
PHASE 2	43								
PHASE 2A	10								

**CRITICAL POINT DATA TABLE**

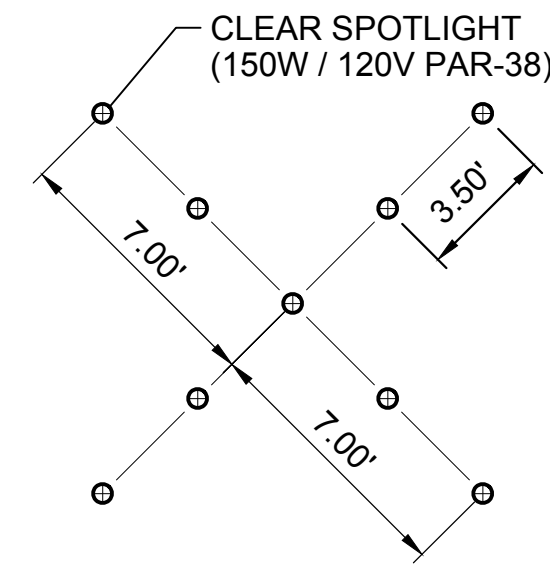
POINT	NORTHING	EASTING	LATITUDE	LONGITUDE	EG ELEVATION	PART 77 SURFACE ELEVATION	APPROACH SURFACE ELEVATION (20:1)	MAX EQUIPMENT HEIGHT (FT)
CP-1	1913450.59	1008574.93	41°55'12.00"	88°14'38.23"	754.00	815.84	-	22.00
CP-2	1913465.60	1008506.56	41°55'12.15"	88°14'39.14"	754.00	812.27	-	22.00
CP-3	1913648.29	1008392.57	41°55'13.96"	88°14'40.64"	754.45	814.04	-	22.00
CP-4	1913565.23	1008373.40	41°55'13.13"	88°14'40.90"	754.83	803.83	-	22.00
CP-5	1913569.34	1008346.24	41°55'13.18"	88°14'41.26"	755.01	801.09	-	22.00
CP-6	1913682.49	1008166.80	41°55'14.30"	88°14'43.63"	754.64	794.83	-	22.00
CP-7	1913598.45	1008154.07	41°55'13.47"	88°14'43.80"	754.83	784.56	-	22.00
CP-8	1913593.40	1007990.24	41°55'13.42"	88°14'45.97"	755.09	768.74	-	13.65
CP-9	1913538.69	1007851.76	41°55'12.88"	88°14'47.80"	754.29	769.05	-	14.76
CP-10	1913442.03	1007738.21	41°55'11.92"	88°14'49.30"	754.83	769.44	-	14.61
CP-11	1913323.80	1007666.02	41°55'10.76"	88°14'50.26"	754.59	783.91	-	22.00
CP-12	1913152.53	1007630.95	41°55'09.07"	88°14'50.72"	757.74	796.80	-	22.00
CP-13	1913153.26	1007546.03	41°55'09.07"	88°14'51.85"	757.98	800.52	-	22.00
CP-14	1913112.90	1007630.61	41°55'08.67"	88°14'50.73"	759.25	798.85	-	22.00
CP-15	1913045.69	1007630.02	41°55'08.01"	88°14'50.74"	760.23	796.09	-	22.00
CP-16	1913046.42	1007545.11	41°55'08.02"	88°14'51.86"	759.38	797.43	-	22.00
CP-17	1912570.14	1007625.90	41°55'03.31"	88°14'50.80"	758.45	784.24	-	22.00
CP-18	1912570.87	1007540.98	41°55'03.32"	88°14'51.92"	758.76	783.66	-	22.00
CP-19	1912413.91	1007601.61	41°55'01.77"	88°14'51.12"	758.49	779.61	796.41	22.00
CP-20	1912439.01	1007520.40	41°55'02.02"	88°14'52.20"	758.04	779.75	780.97	22.00
CP-21	1912015.70	1007478.51	41°54'57.84"	88°14'52.76"	753.41	767.37	776.75	22.00
CP-22	1912040.80	1007397.31	41°54'58.08"	88°14'53.83"	752.67	769.70	782.93	22.00
CP-23	1911824.00	1007373.35	41°54'55.94"	88°14'54.15"	750.76	764.04	772.19	15.00
CP-24	1911879.02	1007308.56	41°54'56.49"	88°14'55.01"	752.96	773.83	779.03	22.00
CP-25	1911666.37	1007286.30	41°54'54.39"	88°14'55.30"	752.18	767.14	779.69	22.00
CP-26	1911687.11	1007203.74	41°54'54.59"	88°14'56.39"	751.54	779.31	-	22.00
CP-27	1911576.86	1007267.72	41°54'53.50"	88°14'55.55"	751.73	766.56	796.19	22.00
CP-28	1911585.69	1007183.18	41°54'53.59"	88°14'56.67"	751.28	778.58	-	22.00
CP-29	1911379.60	1007247.11	41°54'51.55"	88°14'55.82"	752.77	762.50	794.27	22.00
CP-30	1911388.43	1007162.57	41°54'51.64"	88°14'56.94"	752.59	766.00	800.16	22.00
CP-31	1910103.60	1010710.95	41°54'38.91"	88°15'10.03"	766.00	816.29	-	22.00
CP-32	1910103.60	1010960.95	41°54'38.91"	88°15'06.72"	766.00	828.72	-	22.00
CP-33	1909603.60	1010710.95	41°54'33.97"	88°15'10.04"	767.00	811.44	-	22.00

Scale For Microfitting  
Millimeters  
Inches



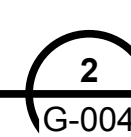
- NOTES:**
- FLASHERS SHALL BE BATTERY OPERATED. LENS SHALL BE RED AND BE ABLE TO ROTATE 90°.
  - SUPPORT BRACES SHALL BE SECURELY ATTACHED TO 2"x8".
  - SAND BAGS SHALL BE PLACED ON BOTH SIDES OF EACH SUPPORT BRACE. ALL SAND BAGS USED TO SECURE BARRICADES SHALL BE ORANGE.
  - FACING OF 2"x8" TO BE COVERED WITH REFLECTIVE TAPE OR PAINT.
  - LOW PROFILE BARRICADES ARE NOT SHOWN TO SCALE ON CONTRACTOR ACCESS AND SAFETY PLAN (DRAWINGS G-004). CONTRACTOR SHALL PROVIDE A SUFFICIENT NUMBER OF LOW PROFILE BARRICADES TO EXTEND ACROSS THE FULL PAVEMENT WIDTH AT THE LOCATIONS SHOWN WITH BARRICADES PLACED END TO END.
  - LOW-PROFILE BARRICADES DIFFERENT THAN DETAILED HERE MAY BE APPROVED FOR USE BY THE OWNER/ENGINEER. ALL LOW-PROFILE BARRICADES MUST MEET OR EXCEED REQUIREMENTS OF FAA ADVISORY CIRCULAR 150/5370-2 (CURRENT EDITION).

**LOW-PROFILE BARRICADE**  
NOT TO SCALE



- NOTES:**
- LIGHTING ARRANGEMENT SHALL BE AS SHOWN.
  - LIGHTED RUNWAY CLOSURE EQUIPMENT SHALL BE IN ACCORDANCE WITH FAA ADVISORY CIRCULAR NO. 150 / 5345-55A, CURRENT EDITION.
  - LIGHTED RUNWAY CLOSURE EQUIPMENT SHALL BE IN CONTINUOUS OPERATION 24 HOURS A DAY, 7 DAYS A WEEK.
  - THE DAA OWNS TWO PORTABLE LIGHTED RUNWAY CLOSURE MARKERS THAT THE CONTRACTOR SHALL USE FOR THE DURATION OF ANY RUNWAY CLOSURE. CONTRACTOR SHALL CONTACT DAA FIELD MAINTENANCE TO COORDINATE USE OF LIGHTED RUNWAY CLOSURE MARKERS.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REPAIR OF ALL LIGHTED RUNWAY CLOSURE MARKER COMPONENTS, INCLUDING FUEL AND REPLACEMENT BULBS.
  - AT THE CONCLUSION OF THE PROJECT, THE CONTRACTOR SHALL RETURN THE TWO LIGHTED RUNWAY CLOSURE MARKERS TO DAA FIELD MAINTENANCE IN PROPER WORKING CONDITION. ANY DAMAGE TO LIGHTED RUNWAY CLOSURE MARKERS SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE DAA.

**LIGHTED RUNWAY CLOSURE DETAIL**  
NOT TO SCALE



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date	JANUARY 4, 2017	detailed	J. YAHYA
designed	J. YAHYA	checked	B. QUINLAN



DuPage, Illinois

**NORTH END PERIMETER ROADWAY**

CONTRACTOR ACCESS  
AND SAFETY DETAILS

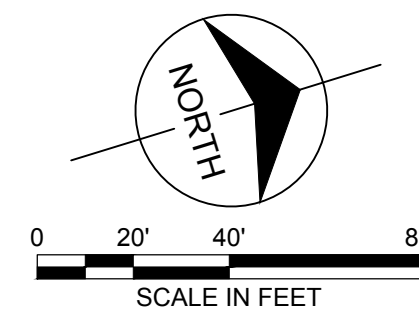
IL proj: DPA-4488	contract
BMcD: 95738	DU082
drawing	rev.
<b>G-005</b>	
sheet 5	of 32 sheets
file	

**LEGEND:**

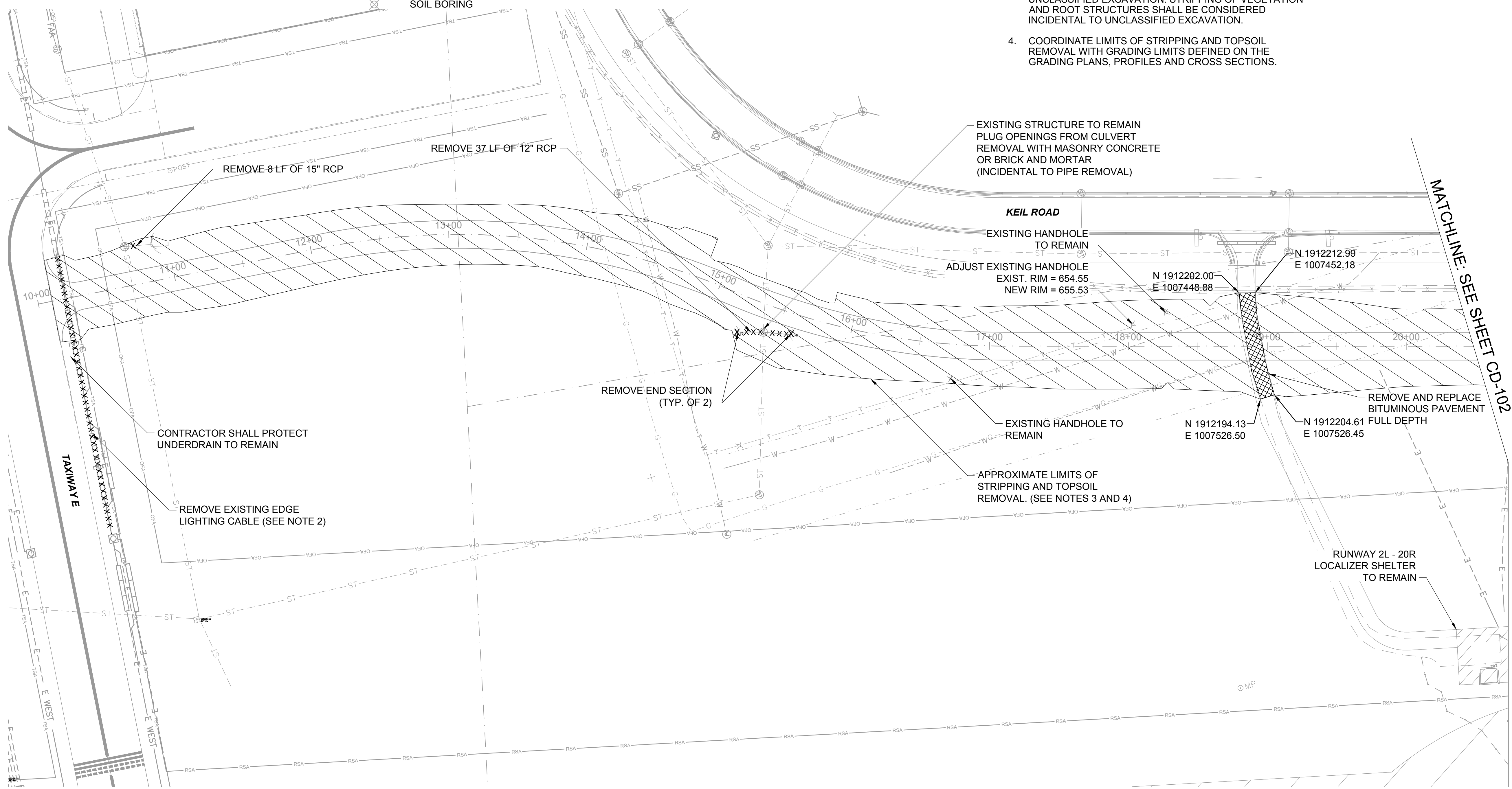
- ST --- EXISTING STORM SEWER
- SS --- EXISTING SANITARY SEWER
- G --- EXISTING GAS SEWER
- W --- EXISTING WATERMAIN
- UD --- EXISTING UNDERDRAIN
- E --- EXISTING BURIED ELECTRIC CABLE
- T --- EXISTING COMM DUCTBANK
- X --- EXISTING FENCE
- ⊙ EXISTING MANHOLE
- ⊗ SOIL BORING
- ▭ EXISTING ELECTRICAL DUCT
- ▨ TOPSOIL REMOVAL (SEE NOTES 3 AND 4)
- ▩ REMOVE AND REPLACE BITUMINOUS PAVEMENT FULL DEPTH (VARIES 3"-8")
- · · · · UTILITY OR FENCE REMOVAL
- X<sub>s</sub> REMOVE STRUCTURE

**NOTES:**

1. CONTRACTOR SHALL TAKE CARE TO PROTECT ALL ITEMS TO REMAIN AND MUST REPAIR OR REPLACE ANY DAMAGED EQUIPMENT OR PROPERTY TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE CONTRACT.
2. CONTRACTOR SHALL DISCONNECT CABLE AT EACH EDGE LIGHT AND REMOVE CABLE. CONTRACTOR SHALL INSTALL A TEMPORARY ABOVE GRADE JUMPER CABLE TO MAINTAIN THE EDGE LIGHTING CIRCUIT. THE COST OF WHICH SHALL BE INCIDENTAL TO THE INSTALLATION OF NEW PERMANENT CABLE.
3. TOPSOIL REMOVAL SHALL BE PAID FOR AS UNCLASSIFIED EXCAVATION. STRIPPING OF VEGETATION AND ROOT STRUCTURES SHALL BE CONSIDERED INCIDENTAL TO UNCLASSIFIED EXCAVATION.
4. COORDINATE LIMITS OF STRIPPING AND TOPSOIL REMOVAL WITH GRADING LIMITS DEFINED ON THE GRADING PLANS, PROFILES AND CROSS SECTIONS.



Millimeters  
 Scale For Microfining  
 Inches



no.	date	by	ckd	description
	3/3/17	JY	BQ	100% SUBMITTAL

**BURNS MEDONNELL**

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

date JANUARY 3, 2017	detailed J. YAHYA
designed J. YAHYA	checked B. QUINLAN

**DUPAGE AIRPORT AUTHORITY**  
 DuPage, Illinois

**NORTH END PERIMETER ROADWAY**

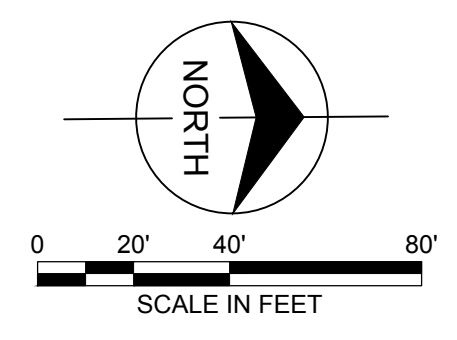
DEMOLITION PLAN

IL proj: DPA-4488	contract
BMcD: 95738	DU082
drawing	rev.
<b>CD-101</b>	
sheet 6	of 32 sheets
file	

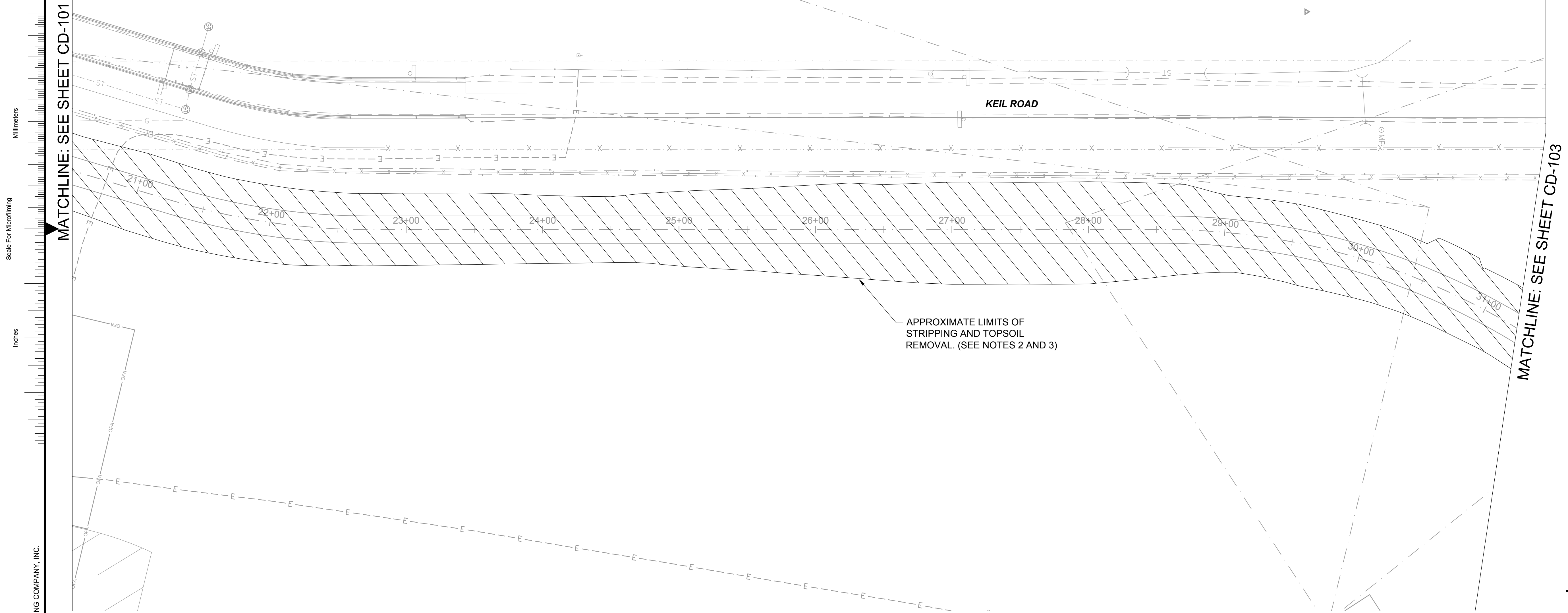
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- LEGEND:**
- ST--- EXISTING STORM SEWER
  - SS--- EXISTING SANITARY SEWER
  - G--- EXISTING GAS SEWER
  - W--- EXISTING WATERMAIN
  - UD--- EXISTING UNDERDRAIN
  - E--- EXISTING BURIED ELECTRIC CABLE
  - T--- EXISTING COMM DUCTBANK
  - X--- EXISTING FENCE
  - EXISTING MANHOLE
  - ⊗ SOIL BORING
  - ▭ EXISTING ELECTRICAL DUCT
  - ▨ TOPSOIL REMOVAL (SEE NOTE 2 AND 3)

- NOTES:**
- CONTRACTOR SHALL TAKE CARE TO PROTECT ALL ITEMS TO REMAIN AND MUST REPAIR OR REPLACE ANY DAMAGED EQUIPMENT OR PROPERTY TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE CONTRACT.
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  - COORDINATE LIMITS OF STRIPPING AND TOPSOIL REMOVAL WITH GRADING LIMITS DEFINED ON THE GRADING PLANS, PROFILES AND CROSS SECTIONS.



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Scale For Microfilming  
Millimeters

Inches

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630-724-3200  
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date	JANUARY 3, 2017	detailed	J. YAHYA
designed	J. YAHYA	checked	B. QUINLAN



DuPage, Illinois

**NORTH END PERIMETER ROADWAY**  
DEMOLITION PLAN

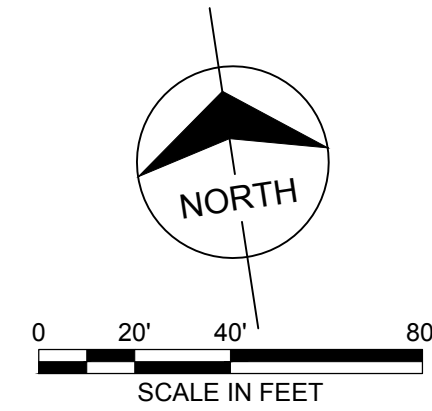
IL proj:	DPA-4488	contract	
BMcD:	95738	DU082	
drawing	<b>CD-102</b>		rev.
sheet	7	of 32	sheets
file			

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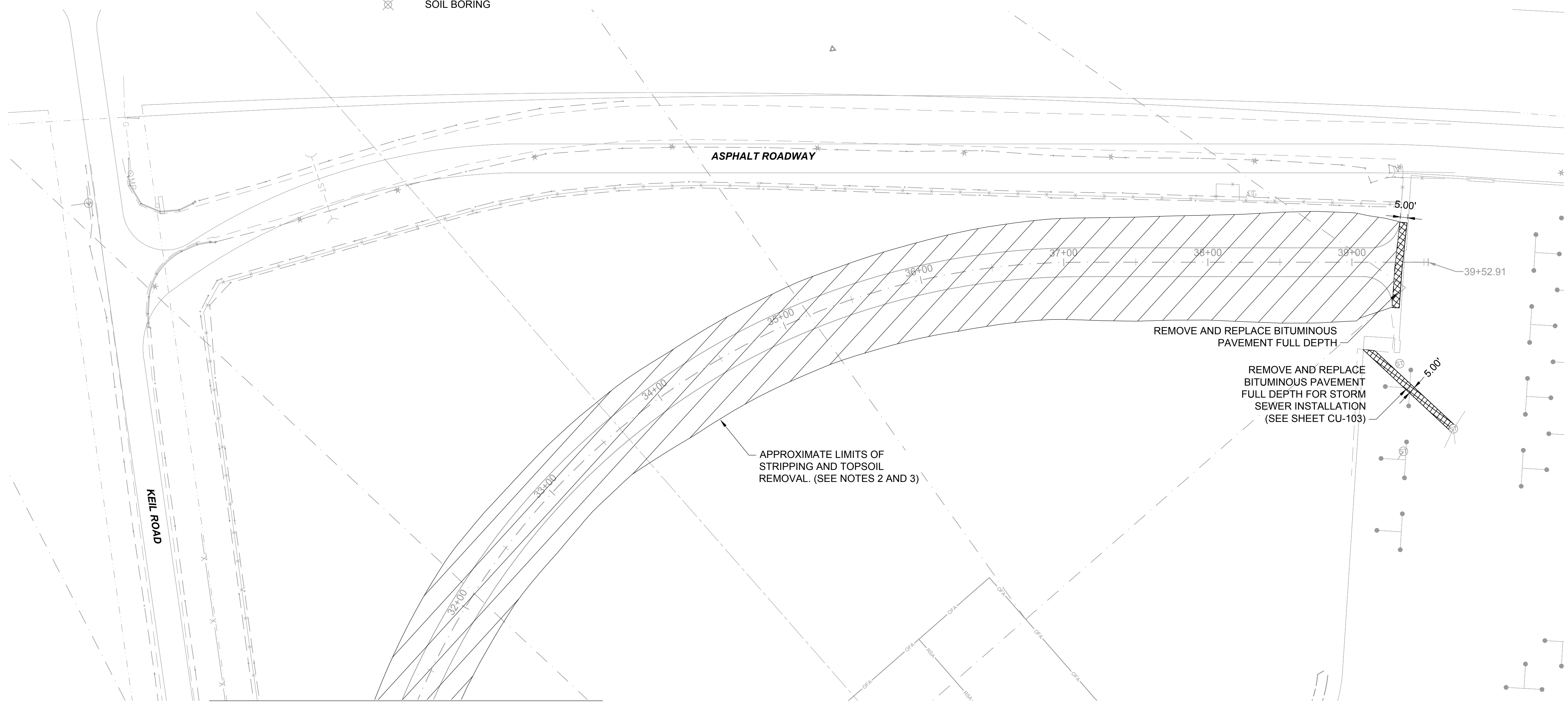
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- SS--- EXISTING SANITARY SEWER
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- W--- EXISTING WATERMAIN
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- ▭ EXISTING ELECTRICAL DUCT
- ▨ TOPSOIL REMOVAL (SEE NOTES 2 AND 3)
- ▩ REMOVE AND REPLACE BITUMINOUS PAVEMENT FULL DEPTH (VARIES 3"-8")

**NOTES:**

1. CONTRACTOR SHALL TAKE CARE TO PROTECT ALL ITEMS TO REMAIN AND MUST REPAIR OR REPLACE ANY DAMAGED EQUIPMENT OR PROPERTY TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE CONTRACT.
2. TOPSOIL REMOVAL SHALL BE PAID FOR AS UNCLASSIFIED EXCAVATION. STRIPPING OF VEGETATION AND ROOT STRUCTURES SHALL BE CONSIDERED INCIDENTAL TO UNCLASSIFIED EXCAVATION.
3. COORDINATE LIMITS OF STRIPPING AND TOPSOIL REMOVAL WITH GRADING LIMITS DEFINED ON THE GRADING PLANS, PROFILES AND CROSS SECTIONS.



Millimeters  
 Scale For Microfining  
 Inches



MATCHLINE: SEE SHEET CD-102

no.	date	by	ckd	description
3/3/17	JY	BQ		100% SUBMITTAL

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

date	JANUARY 3, 2017	detailed	J. YAHYA
designed	J. YAHYA	checked	B. QUINLAN

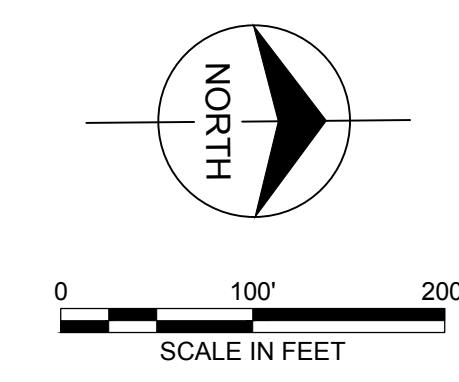
**DUPAGE AIRPORT AUTHORITY**  
 DuPage, Illinois

**NORTH END PERIMETER ROADWAY**  
 DEMOLITION PLAN

IL proj: DPA-4488	contract
BMcD: 95738	DU082
drawing	rev.
<b>CD-103</b>	
sheet 8	of 32 sheets
file	

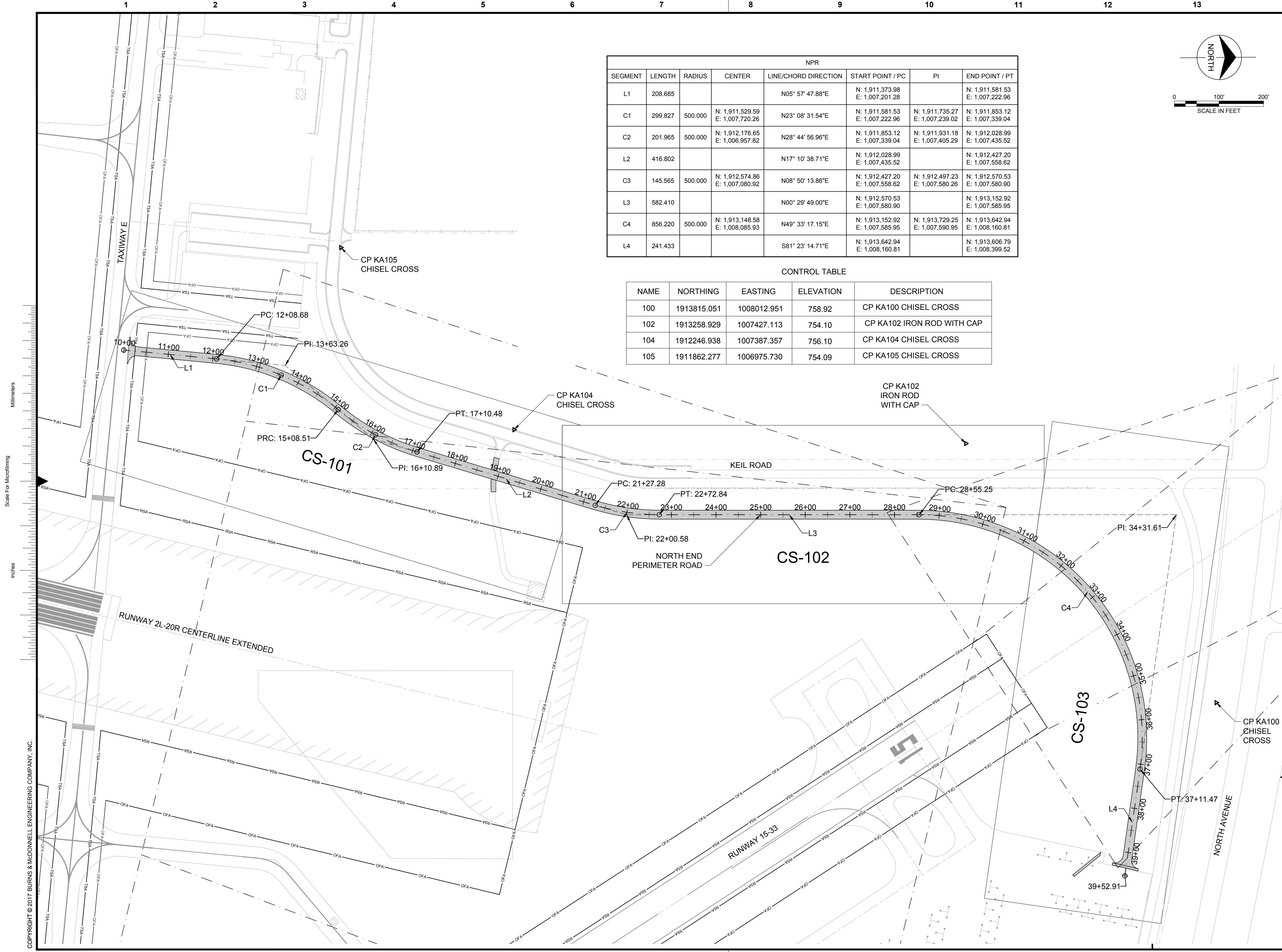


no.	date	by	ckd	description
3/3/17	JY	BQ		100% SUBMITTAL



NPR							
SEGMENT	LENGTH	RADIUS	CENTER	LINE/CHORD DIRECTION	START POINT / PC	PI	END POINT / PT
L1	208.685			N05° 57' 47.88"E	N: 1,911,373.98 E: 1,007,201.28		N: 1,911,581.53 E: 1,007,222.96
C1	299.827	500.000	N: 1,911,529.59 E: 1,007,720.26	N23° 08' 31.54"E	N: 1,911,581.53 E: 1,007,222.96	N: 1,911,735.27 E: 1,007,239.02	N: 1,911,853.12 E: 1,007,339.04
C2	201.965	500.000	N: 1,912,176.65 E: 1,006,957.82	N28° 44' 56.96"E	N: 1,911,853.12 E: 1,007,339.04	N: 1,911,931.18 E: 1,007,405.29	N: 1,912,028.99 E: 1,007,435.52
L2	416.802			N17° 10' 38.71"E	N: 1,912,028.99 E: 1,007,435.52		N: 1,912,427.20 E: 1,007,558.62
C3	145.565	500.000	N: 1,912,574.86 E: 1,007,080.92	N08° 50' 13.86"E	N: 1,912,427.20 E: 1,007,558.62	N: 1,912,497.23 E: 1,007,580.26	N: 1,912,570.53 E: 1,007,580.90
L3	582.410			N00° 29' 49.00"E	N: 1,912,570.53 E: 1,007,580.90		N: 1,913,152.92 E: 1,007,585.95
C4	856.220	500.000	N: 1,913,148.58 E: 1,008,085.93	N49° 33' 17.15"E	N: 1,913,152.92 E: 1,007,585.95	N: 1,913,729.25 E: 1,007,590.95	N: 1,913,642.94 E: 1,008,160.81
L4	241.433			S81° 23' 14.71"E	N: 1,913,642.94 E: 1,008,160.81		N: 1,913,606.79 E: 1,008,399.52

CONTROL TABLE				
NAME	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	1913815.051	1008012.951	758.92	CP KA100 CHISEL CROSS
102	1913258.929	1007427.113	754.10	CP KA102 IRON ROD WITH CAP
104	1912246.938	1007387.357	756.10	CP KA104 CHISEL CROSS
105	1911862.277	1006975.730	754.09	CP KA105 CHISEL CROSS



**BURNS MEDONNELL**  
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designed	J. YAHYA	checked	B. QUINLAN

**DUPAGE AIRPORT AUTHORITY**  
 DuPage, Illinois

**NORTH END PERIMETER ROADWAY**  
 ROADWAY ALIGNMENT AND KEY PLAN

IL proj:	DPA-4488	contract	
BMcD:	95738		DU082
drawing		rev.	
<b>CS-100</b>			
sheet	9	of	32 sheets
file			

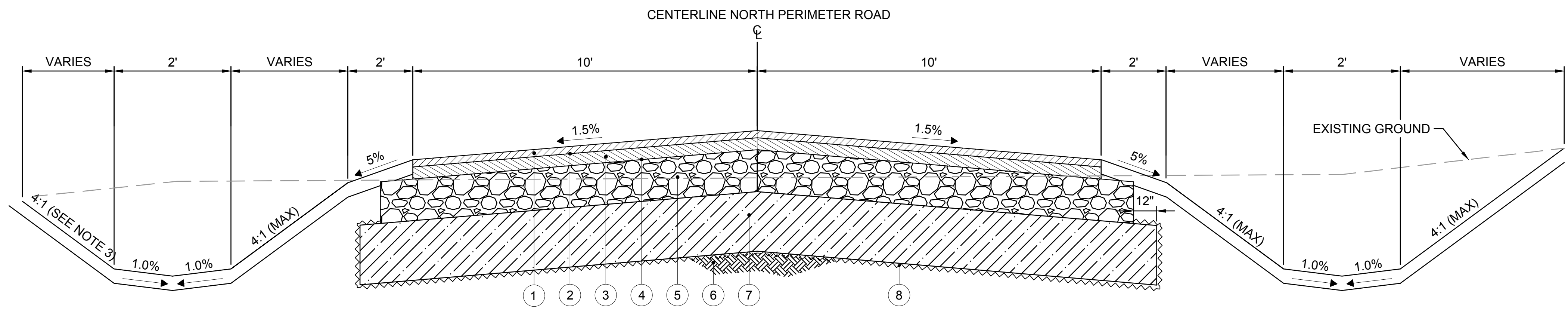
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no.	date	by	ckd	description
	3/3/17	JY	BQ	100% SUBMITTAL



**PROPOSED TYPICAL SECTION -  
NORTH END PERIMETER  
ROADWAY**  
NOT TO SCALE

**LEGEND**

- ① 1.5" BITUMINOUS SURFACE COURSE (AR401610)
- ② TACK COAT (AR603510)
- ③ 2.5" BITUMINOUS BASE COURSE (AR403610)
- ④ PRIME COAT (AR602510)
- ⑤ 10" CRUSHED AGGREGATE BASE COURSE (AR209610)
- ⑥ COMPACTED SUBGRADE
- ⑦ 12" POROUS GRANULAR EMBANKMENT (AR152520) (SEE NOTE 2)
- ⑧ NON-WOVEN GEOTEXTILE FABRIC (AR209600) (SEE NOTE 2)

**NOTES:**

1. LIMITS OF CRUSHED AGGREGATE BASE COURSE SHALL EXTEND 1' BEYOND THE EDGE OF PAVEMENT.
2. APPROXIMATE LIMITS OF 12" UNDERCUT AND PGE STA. 35+25.00 TO STA. 39+25.00. LIMITS OF PGE SHALL EXTEND 2' BEYOND THE EDGES OF PAVEMENT. THE ACTUAL LIMITS SHALL BE CONFIRMED BY THE ENGINEER.
3. APPROXIMATE LIMITS OF 3:1 MAX BACK SLOPE STA. 26+50 TO STA. 28+70.

Scale For Microfilming  
Millimeters  
Inches

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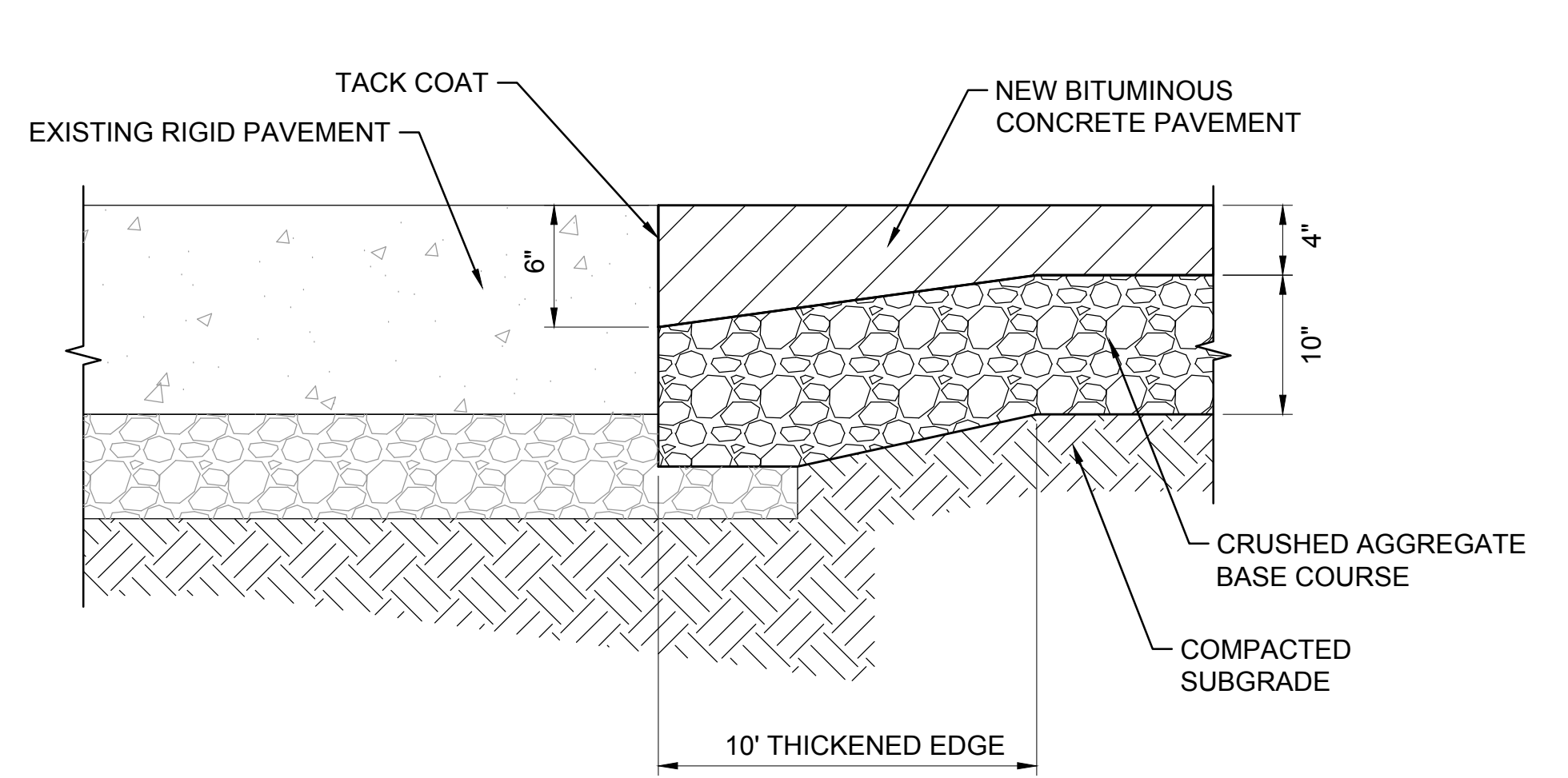
date	JANUARY 3, 2017	detailed	J. YAHYA
designed	J. YAHYA	checked	B. QUINLAN



DuPage, Illinois  
**NORTH END PERIMETER ROADWAY**

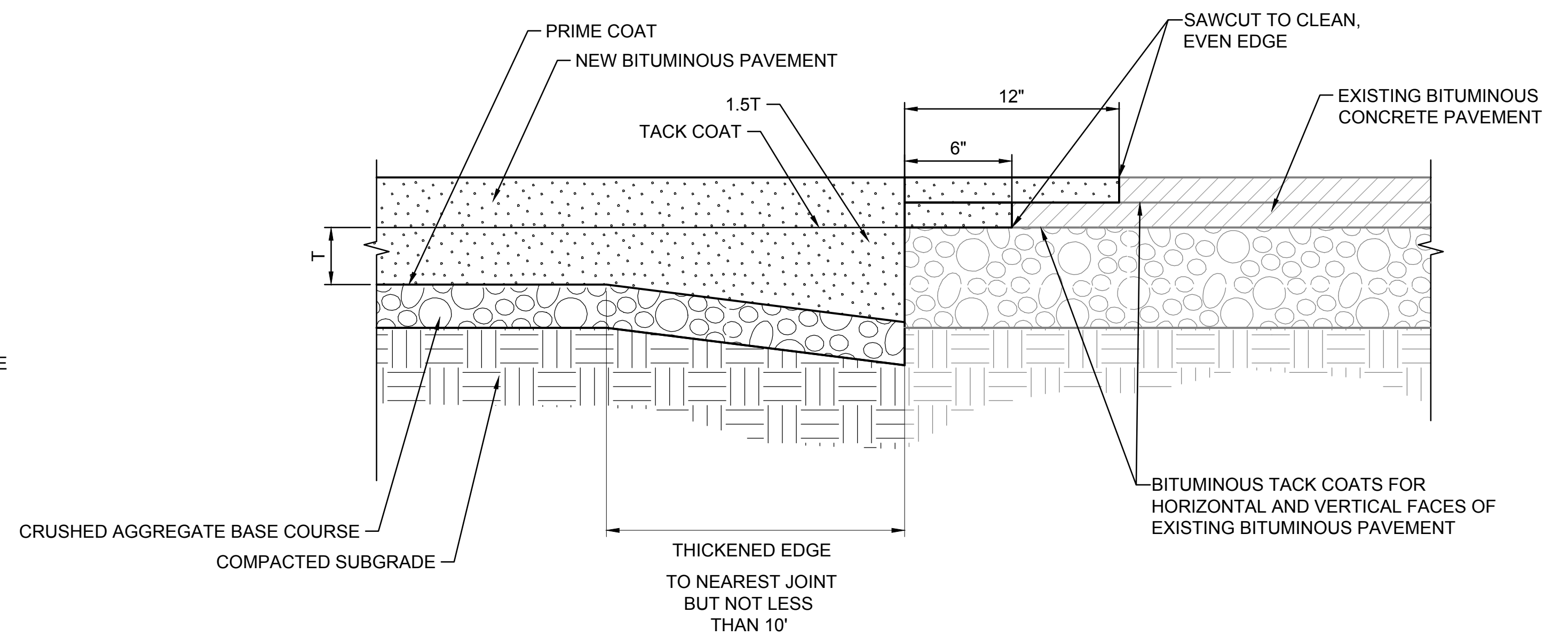
TYPICAL SECTION	
IL proj: DPA-4488	contract
BMcD: 95738	DU082
drawing	rev.
<b>C-100</b> —	
sheet 13	of 32 sheets
file	

1 2 3 4 5 6 7 8 9 10 11 12 13



**JUNCTURE BETWEEN EXISTING RIGID PAVEMENT AND BITUMINOUS PAVEMENT**  
SCALE: NONE

1



**JUNCTURE BETWEEN NEW AND EXISTING BITUMINOUS PAVEMENT**  
SCALE: NONE

2

Scale For Microfining  
Millimeters

Inches

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no.	date	by	ckd	description
3/3/17	JY	BQ		100% SUBMITTAL



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

date	JANUARY 31, 2017	detailed	J. YAHYA
designed	J. YAHYA	checked	B. QUINLAN



DuPage, Illinois

**NORTH END PERIMETER ROADWAY**

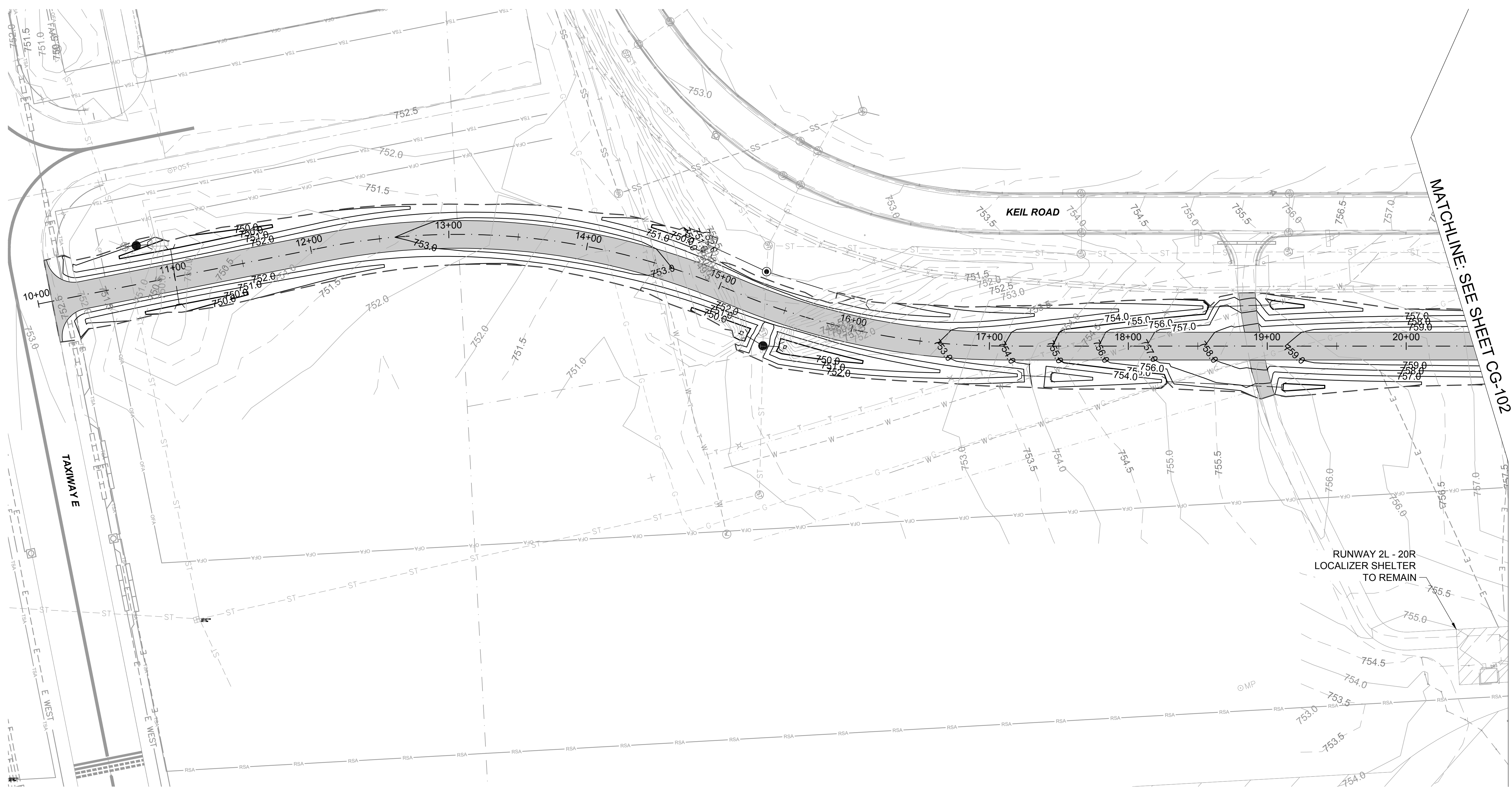
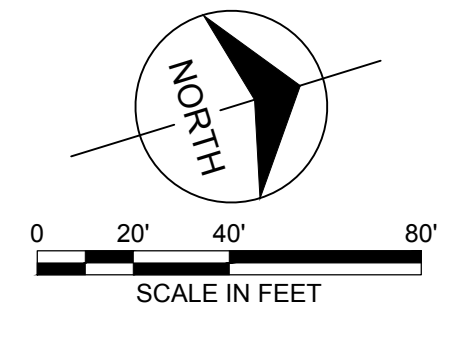
CIVIL DETAILS

IL proj:	DPA-4488	contract	
BMcD:	95738		DU082

drawing	<b>C-101</b>	rev.	
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sheet	14	of	32	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



Millimeters  
 Scale For Microfining  
 Inches

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3/3/17	JY	BQ		100% SUBMITTAL

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designed	J. YAHYA	checked	B. QUINLAN

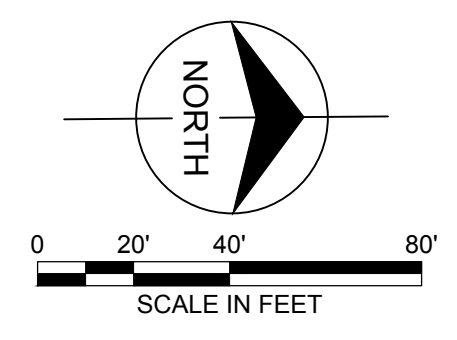
**DUPAGE AIRPORT AUTHORITY**  
 DuPage, Illinois

**NORTH END PERIMETER ROADWAY**

GRADING PLAN

IL proj: DPA-4488	contract
BMcD: 95738	DU082
drawing	rev.
<b>CG-101</b>	
sheet 15	of 32 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

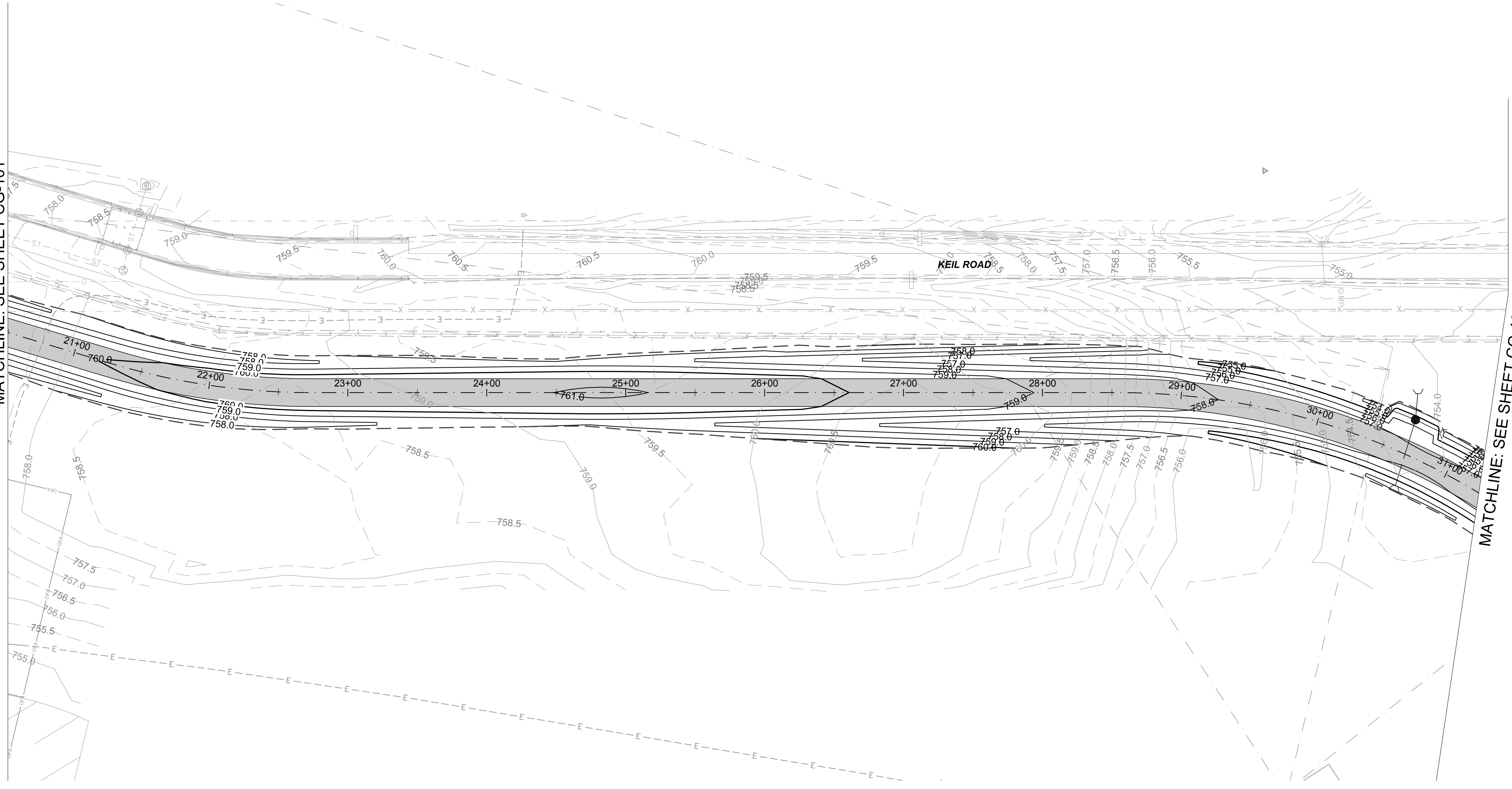


Scale For Microfitting  
Millimeters

Inches

MATCHLINE: SEE SHEET CG-101

MATCHLINE: SEE SHEET CG-103



no.	date	by	ckd	description
	3/3/17	JY	BQ	100% SUBMITTAL

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date	JANUARY 3, 2017	detailed	J. YAHYA
designed	J. YAHYA	checked	B. QUINLAN

**DUPAGE AIRPORT  
AUTHORITY**

DuPage, Illinois

**NORTH END PERIMETER ROADWAY**

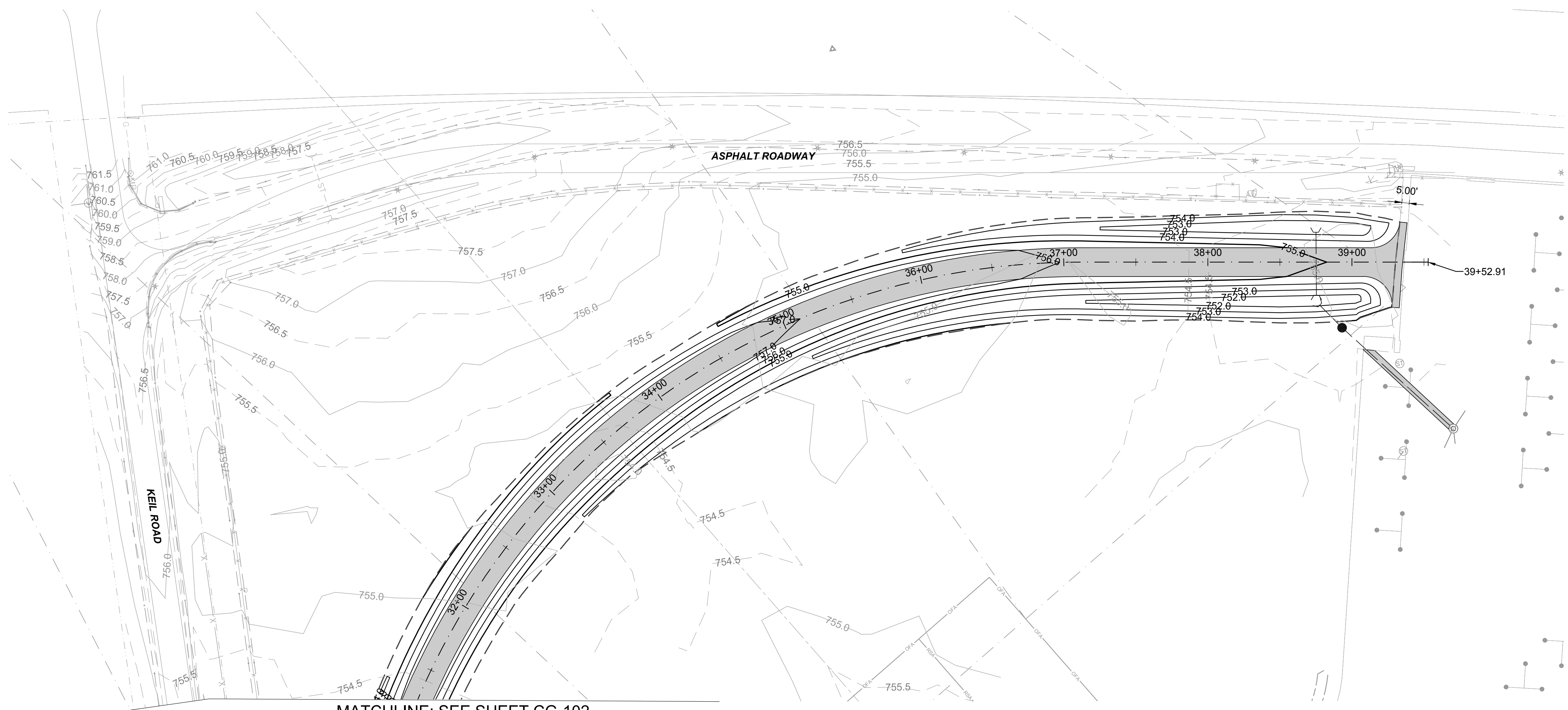
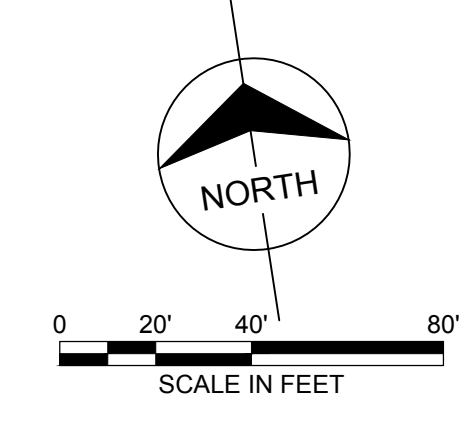
GRADING PLAN

IL proj:	DPA-4488	contract	
BMcD:	95738	DU082	
drawing	<b>CG-102</b>	rev.	
sheet	16	of 32	sheets
file			

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- 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



MATCHLINE: SEE SHEET CG-102

Scale For Microfilming

Inches

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no.	date	by	ckd	description
	3/3/17	JY	BQ	100% SUBMITTAL

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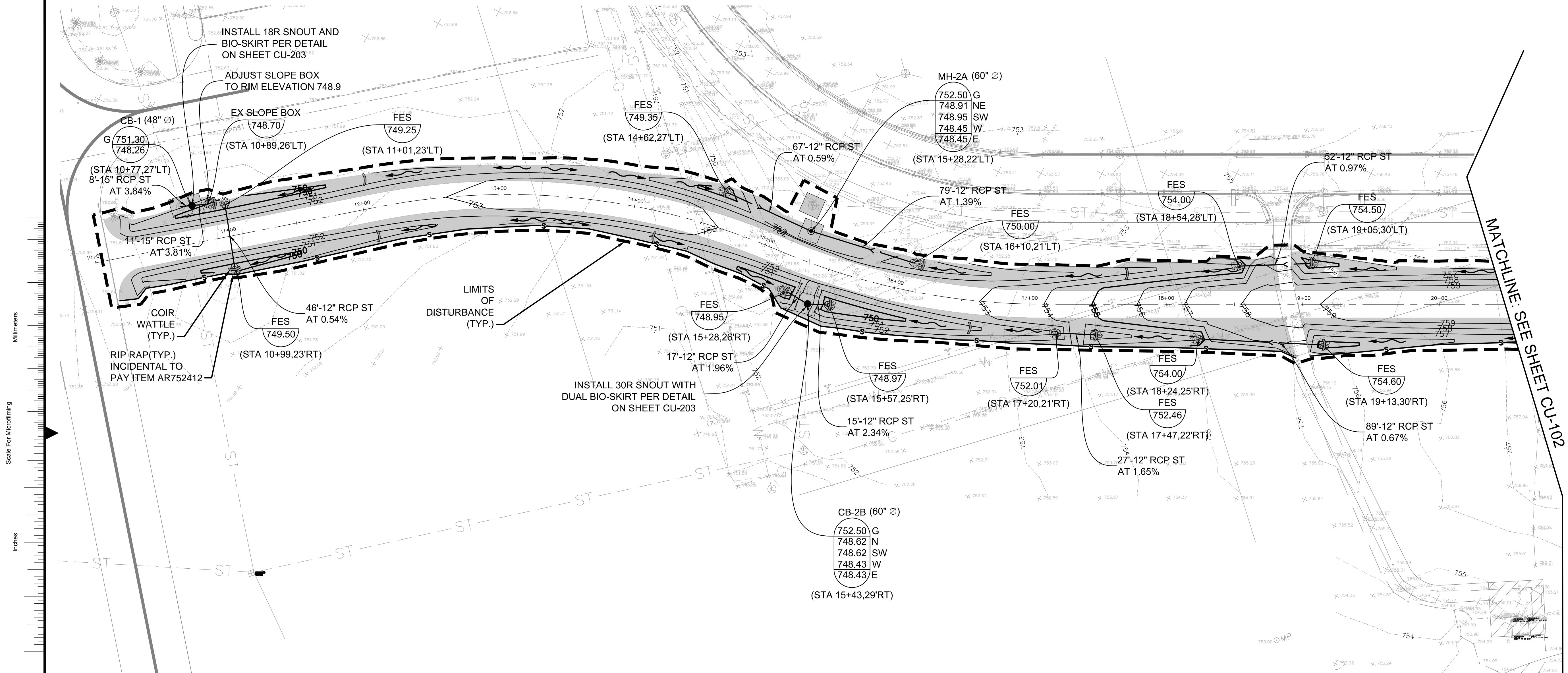
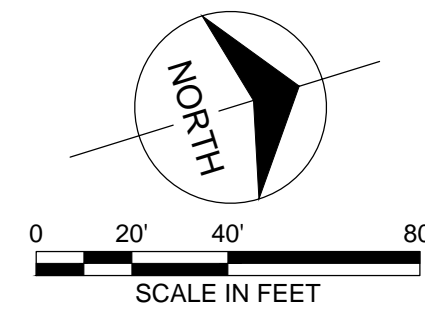
date	JANUARY 3, 2017	detailed	J. YAHYA
designed	J. YAHYA	checked	B. QUINLAN

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AUTHORITY**

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<b>NORTH END PERIMETER ROADWAY</b>	
GRADING PLAN	
IL proj: DPA-4488	contract
BMcD: 95738	DU082
drawing	rev.
<b>CG-103</b>	
sheet 17	of 32 sheets
file	

no.	date	by	ckd	description
3/3/17	JY	BQ		100% SUBMITTAL

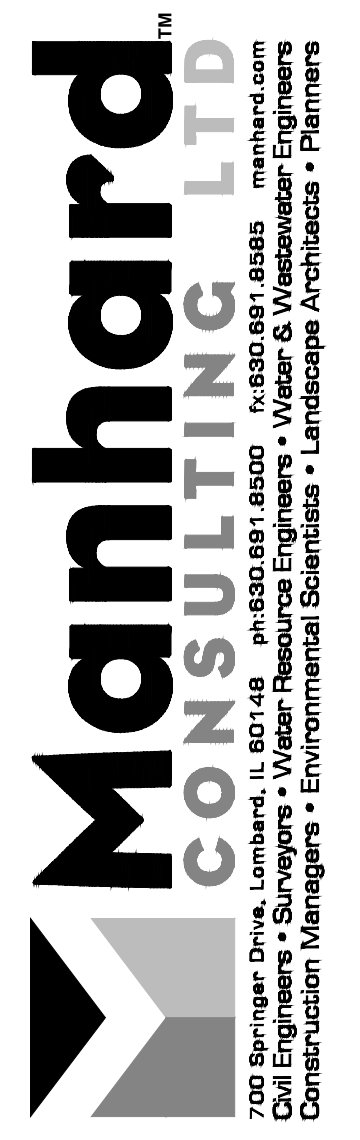
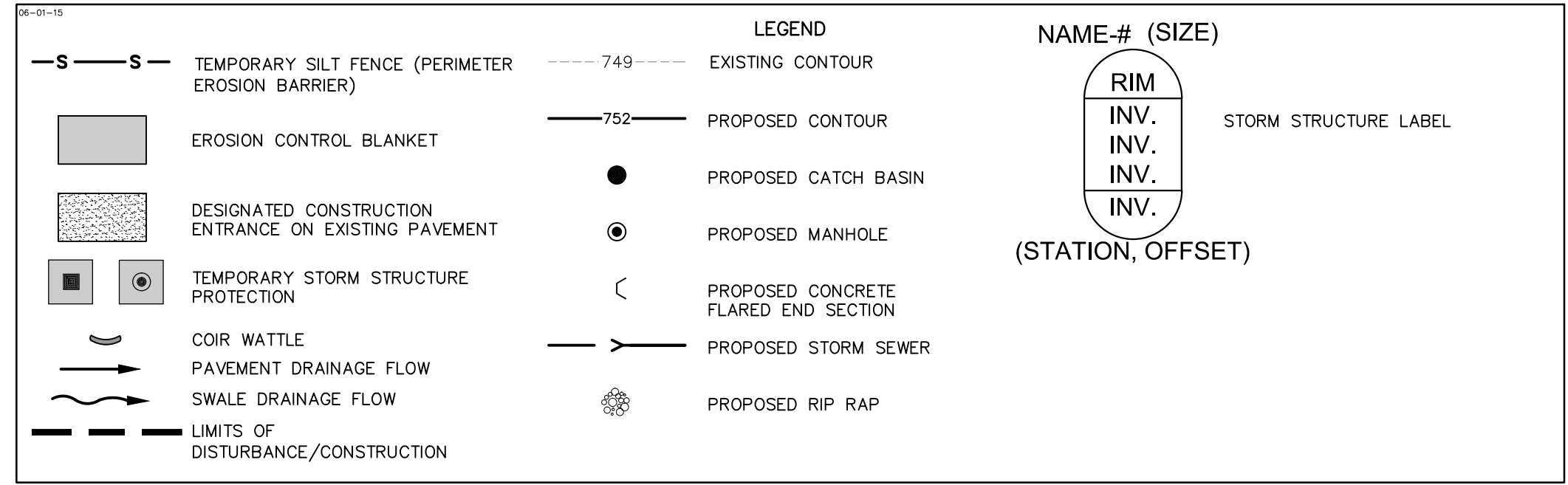


Scale For Microfitting  
Millimeters  
Inches

MATCHLINE: SEE SHEET CU-102

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

"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."



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630-724-3200  
LICENSEE NO. 184-001310

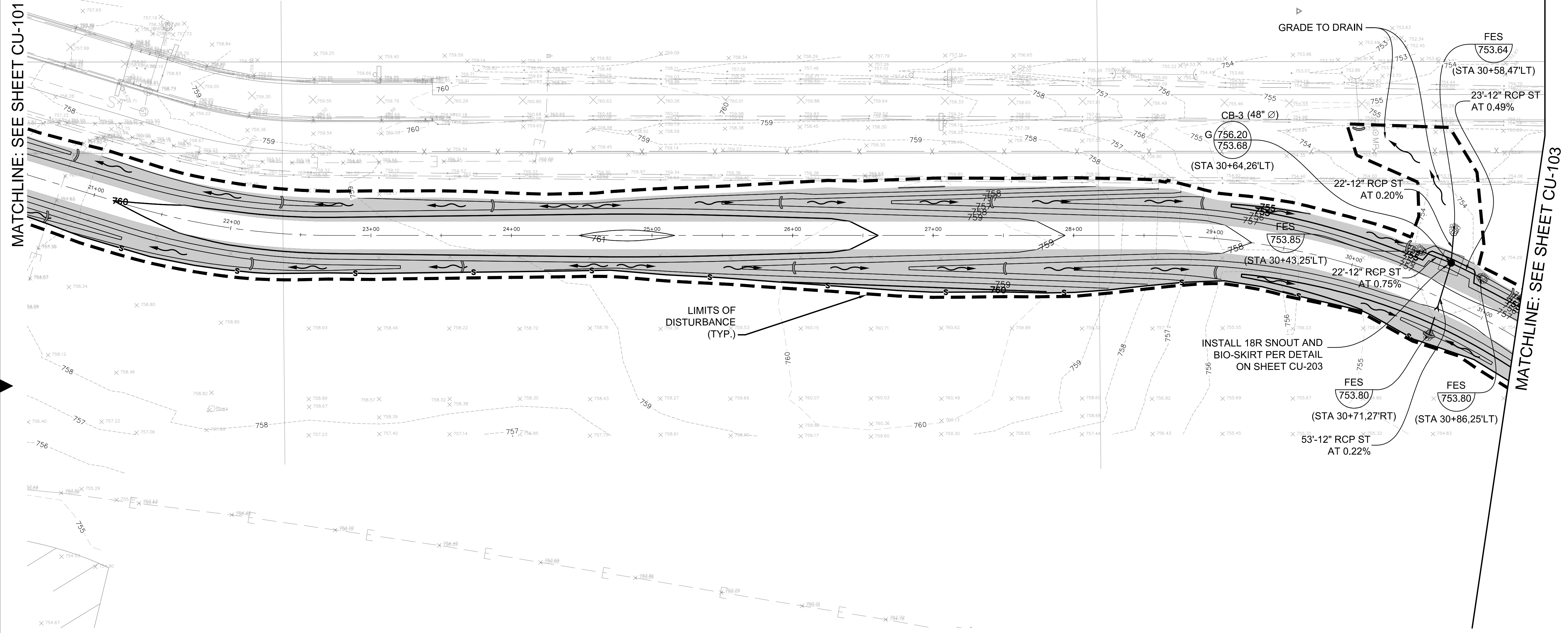
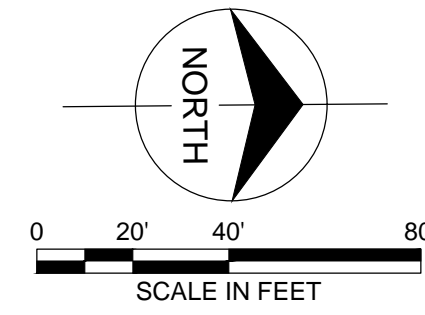
date	detailed
designed	checked
KEVIN SHEA	DIANE BOUCKAERT



**NORTH END PERIMETER ROADWAY**  
DRAINAGE AND SOIL EROSION  
SEDIMENT CONTROL PLAN

IL proj: DPA-4488	contract
BMcD: 95738	DU082
drawing	rev.
<b>CU-101</b>	
sheet 18	of 32 sheets
file	

no.	date	by	ckd	description
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MATCHLINE: SEE SHEET CU-101

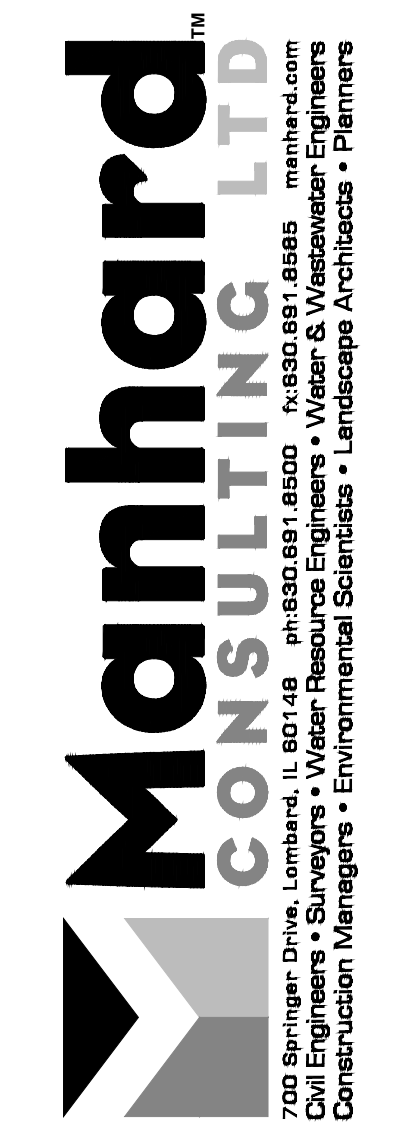
MATCHLINE: SEE SHEET CU-103

Scale For Microfining  
Millimeters  
Inches

- CONSTRUCTION SEQUENCE:**
- INSTALL SILT FENCE AT LOCATIONS AS INDICATED ON THE PLANS.
  - PROVIDE STABILIZED CONSTRUCTION ENTRANCE.
  - CONSTRUCT DETENTION SWALES TO ACT AS TEMPORARY SEDIMENT TRAPS.
  - STRIP EXISTING TOPSOIL FROM PROPOSED STORMWATER MANAGEMENT AREAS AND STOCKPILE WHERE SHOWN ON PLANS.
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"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."

<p>—S—S— TEMPORARY SILT FENCE (PERIMETER EROSION BARRIER)</p> <p>EROSION CONTROL BLANKET</p> <p>DESIGNATED CONSTRUCTION ENTRANCE ON EXISTING PAVEMENT</p> <p>TEMPORARY STORM STRUCTURE PROTECTION</p> <p>COIR WATTLE</p> <p>PAVEMENT DRAINAGE FLOW</p> <p>SWALE DRAINAGE FLOW</p> <p>LIMITS OF DISTURBANCE/CONSTRUCTION</p>	<p>LEGEND</p> <p>--- 749 --- EXISTING CONTOUR</p> <p>— 752 — PROPOSED CONTOUR</p> <p>● PROPOSED CATCH BASIN</p> <p>⊙ PROPOSED MANHOLE</p> <p>∩ PROPOSED CONCRETE FLARED END SECTION</p> <p>—&gt; PROPOSED STORM SEWER</p> <p>⊗ PROPOSED RIP RAP</p>	<p>NAME-# (SIZE)</p> <p>RIM INV. INV. INV.</p> <p>STORM STRUCTURE LABEL</p> <p>(STATION, OFFSET)</p>
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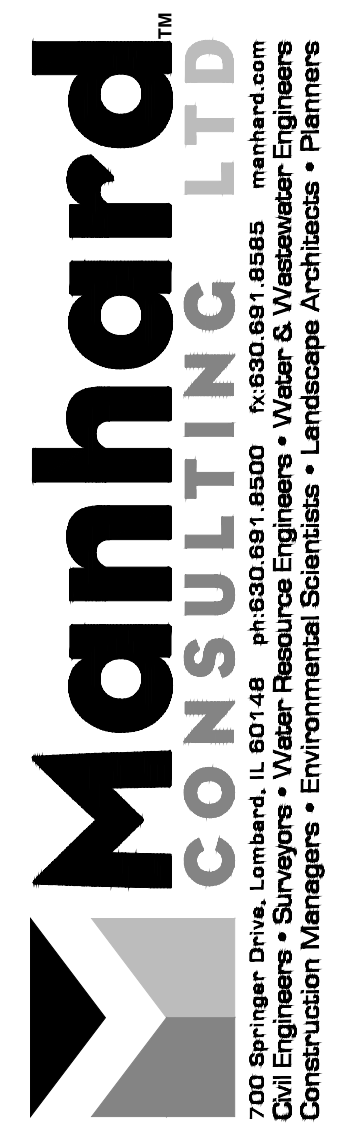
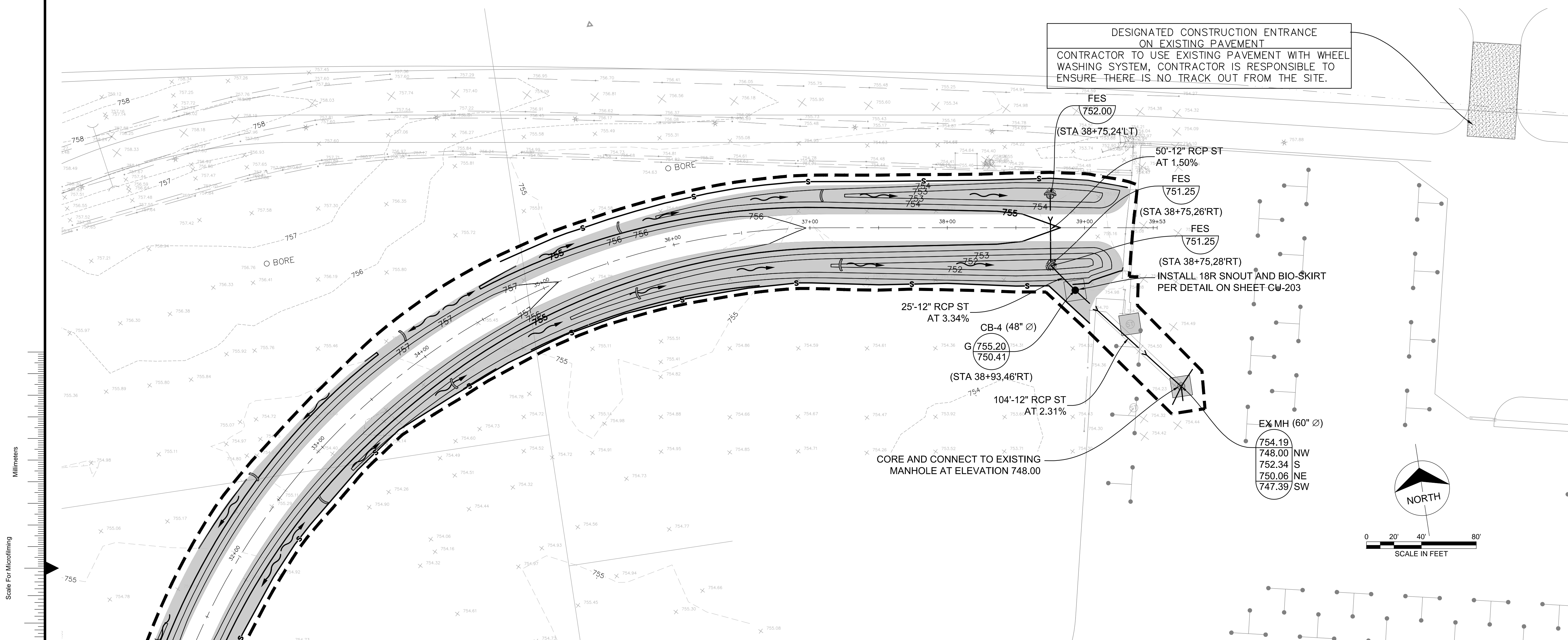
date	detailed
designed	checked
KEVIN SHEA	KEVIN SHEA DIANE BOUCKAERT



**NORTH END PERIMETER ROADWAY**  
DRAINAGE AND SOIL EROSION  
SEDIMENT CONTROL PLAN

IL proj: DPA-4488	contract
BMcD: 95738	DU082
drawing	rev.
<b>CU-102</b>	
sheet 19 of 32 sheets	file

no.	date	by	ckd	description
3/3/17	JY	BQ		100% SUBMITTAL



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date	detailed
designed	checked
KEVIN SHEA	DIANE BOUCKAERT

**DUPAGE AIRPORT  
AUTHORITY**  
DuPage, Illinois

**NORTH END PERIMETER ROADWAY**  
DRAINAGE AND SOIL EROSION  
SEDIMENT CONTROL PLAN

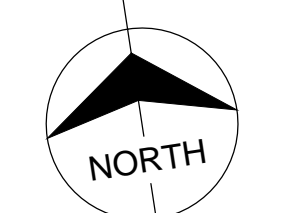
IL proj: DPA-4488	contract
BMcD: 95738	DU082
drawing	rev.
<b>CU-103</b>	
sheet 20 of 32 sheets	file

DESIGNATED CONSTRUCTION ENTRANCE  
ON EXISTING PAVEMENT  
CONTRACTOR TO USE EXISTING PAVEMENT WITH WHEEL  
WASHING SYSTEM, CONTRACTOR IS RESPONSIBLE TO  
ENSURE THERE IS NO TRACK OUT FROM THE SITE.

50'-12" RCP ST  
AT 1.50%  
FES  
(STA 38+75,26'RT)  
FES  
(STA 38+75,28'RT)  
INSTALL 18R SNOUT AND BIO-SKIRT  
PER DETAIL ON SHEET CU-203

25'-12" RCP ST  
AT 3.34%  
CB-4 (48" Ø)  
G 755.20  
750.41  
(STA 38+93,46'RT)  
104'-12" RCP ST  
AT 2.31%  
CORE AND CONNECT TO EXISTING  
MANHOLE AT ELEVATION 748.00

EX MH (60" Ø)  
754.19 NW  
748.00 NW  
752.34 S  
750.06 NE  
747.39 SW



MATCHLINE: SEE SHEET CU-102

- CONSTRUCTION SEQUENCE:**
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LEGEND		NAME-# (SIZE)
-S-S-	TEMPORARY SILT FENCE (PERIMETER EROSION BARRIER)	
---	EXISTING CONTOUR	
---	PROPOSED CONTOUR	
[Shaded Box]	EROSION CONTROL BLANKET	
[Stippled Box]	DESIGNATED CONSTRUCTION ENTRANCE ON EXISTING PAVEMENT	
[Square]	TEMPORARY STORM STRUCTURE PROTECTION	
[Circle]	PROPOSED CATCH BASIN	
[Circle with Center Dot]	PROPOSED MANHOLE	
[Circle with Rim]	RIM INV. INV. INV. INV.	STORM STRUCTURE LABEL (STATION, OFFSET)
[Line with Arrow]	COIR WATTLE PAVEMENT DRAINAGE FLOW	
[Line with Arrow]	SWALE DRAINAGE FLOW	
[Dashed Line]	LIMITS OF DISTURBANCE/CONSTRUCTION	
[Line with Arrow]	PROPOSED CONCRETE FLARED END SECTION	
[Line with Arrow]	PROPOSED STORM SEWER	
[Star]	PROPOSED RIP RAP	

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**STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS, LATEST EDITION.**

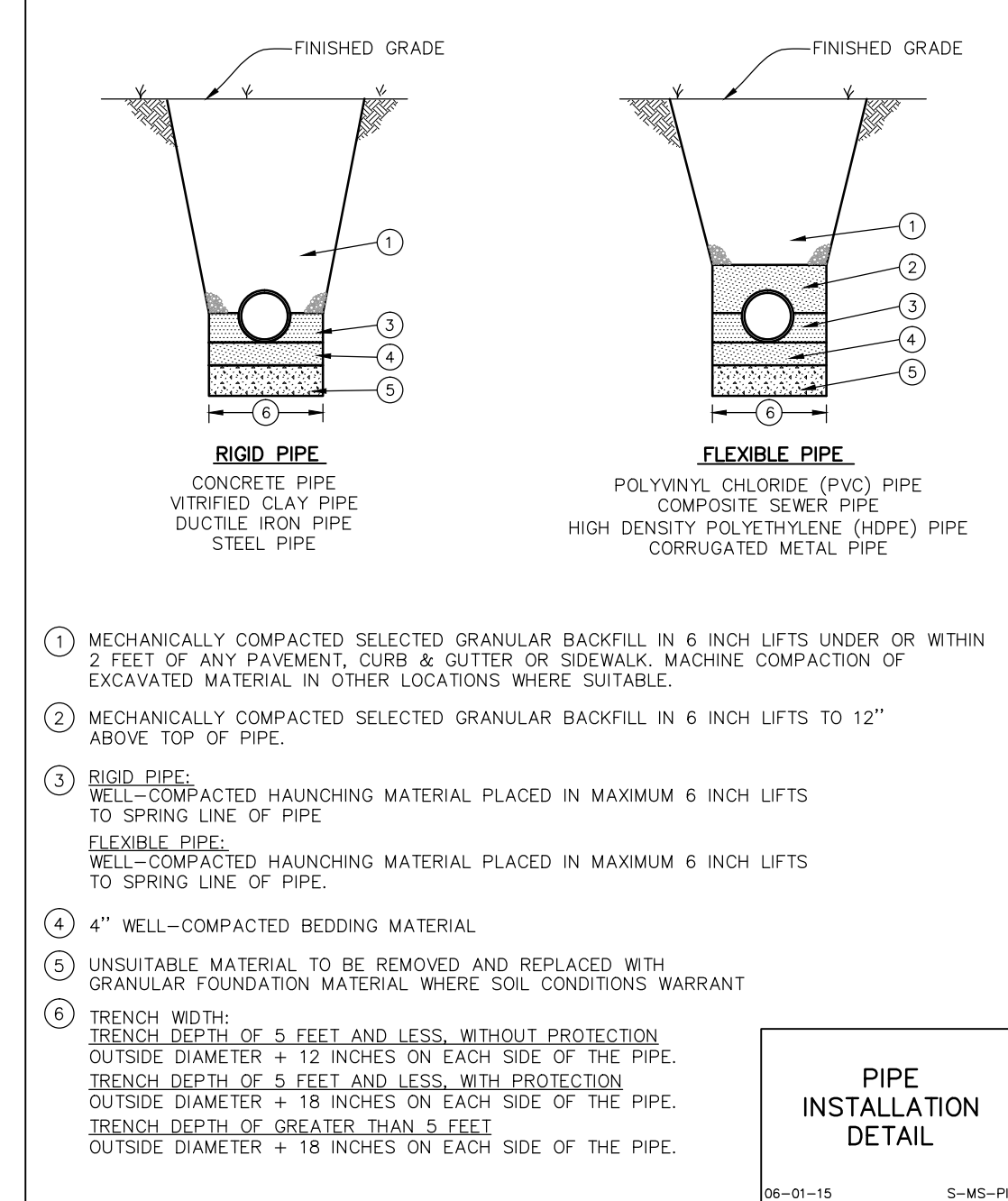
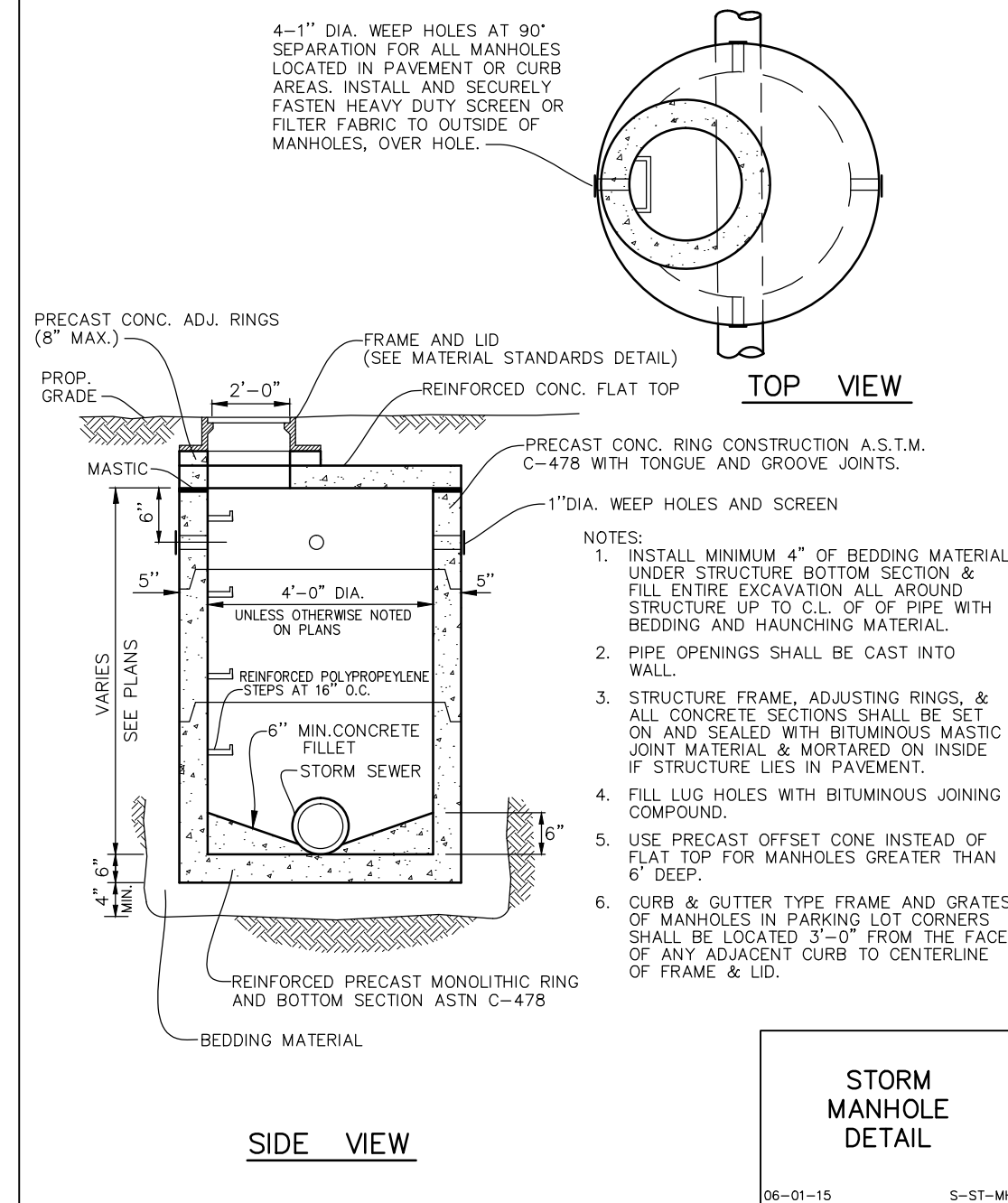
**41-2.01 PROTECTION OF WATER MAIN AND WATER SERVICE LINES**  
**41-2.01A GENERAL**

Water mains and water service lines shall be protected from sanitary sewers, storm sewers, combined sewers, house sewer service connections and drains as follows:

**41-2.01B HORIZONTAL SEPARATION - WATER MAINS AND SEWERS**

- Water mains shall be located at least ten (10) feet (3.1 m) horizontally from any existing or proposed drain, storm sewer, sanitary sewer, combined sewer or sewer service connection.
- Water mains may be located closer than ten (10) feet (3.1 m) to a sewer line when:
  - local conditions prevent a lateral separation of ten (10) feet (3.1 m); and
  - the water main invert is at least eighteen (18) inches (460 mm) above the crown of the sewer; and
  - the water main is either in a separate trench or in the same trench on an undisturbed earth shelf located to one side of the sewer.
- When it is impossible to meet (1) or (2) above, both the water main and drain or sewer shall be constructed of slip-on or mechanical joint cast or ductile iron pipe, prestressed concrete pipe, or PVC pipe equivalent to water main standards of construction. The drain or sewer shall be pressure tested to the maximum expected surcharge head before backfilling. See Standard Drawing No. 18.

**WATER AND SEWER SEPARATION REQUIREMENTS (HORIZONTAL SEPARATION)**  
 06-01-15 S-WM-SEP-1



**MATERIAL STANDARDS**

ITEM	BRAND	PRODUCT
<b>FIRE HYDRANTS</b> (TRAFFIC MODEL)	MUELLER SUPER CENTURION WATEROUS PACER	A-423 WB-67
<b>GATE VALVES</b> SPECIFY SIZE NON-RISING STEM, 2" NUT, M.I., OPEN LEFT	MUELLER (SIZE) AMERICAN FLOW CONTROL	A-2360-20L SERIES 2500
<b>VALVE BOXES</b> 3 PIECE	EAST JORDAN TYLER/UNION	SCREW ADJUSTING EXTENSION TYPE
<b>CURB STOPS</b> (SPECIFY SIZE)	MUELLER FORD	300 BALL VALVE BALL VALVE
<b>CORPORATION VALVE</b> (SPECIFY SIZE)	MUELLER FORD	H-15000 FB600 (AWWA/CC THREAD)
<b>MANHOLES/CATCHBASINS/INLETS</b> IN OPEN AREAS AND PAVEMENT (SELF-SEALING LID WITH PROPER UTILITY MARKINGS)	NEENAH CLOSED LID	R-1772
	OPEN LID *1 SWALES AND DITCHES	R-2502 C R-4340 B
<b>MANHOLES/CATCH BASINS/INLETS</b> (BICYCLE SAFE)	NEENAH ROLL/MOUNTABLE CURB B6.12 CURB	R-3501-D2A R-3281A *R-3281-AL
<b>WATER SERVICE SADDLES</b> (ALL SERVICE SADDLES SHALL BE DOUBLE STRAP; BRONZE, NYLON COATED OR STAINLESS STEEL)	MUELLER FORD SMITH-BLAIR 3/4" & 1"	DR2S FS-303 # 317
<b>B-BOX</b> (AT LEAST 1 1/4" TOP SECTION) ARCH PATTERN PLUG STYLE LID	FORD MUELLER	EA2 CURB BOX

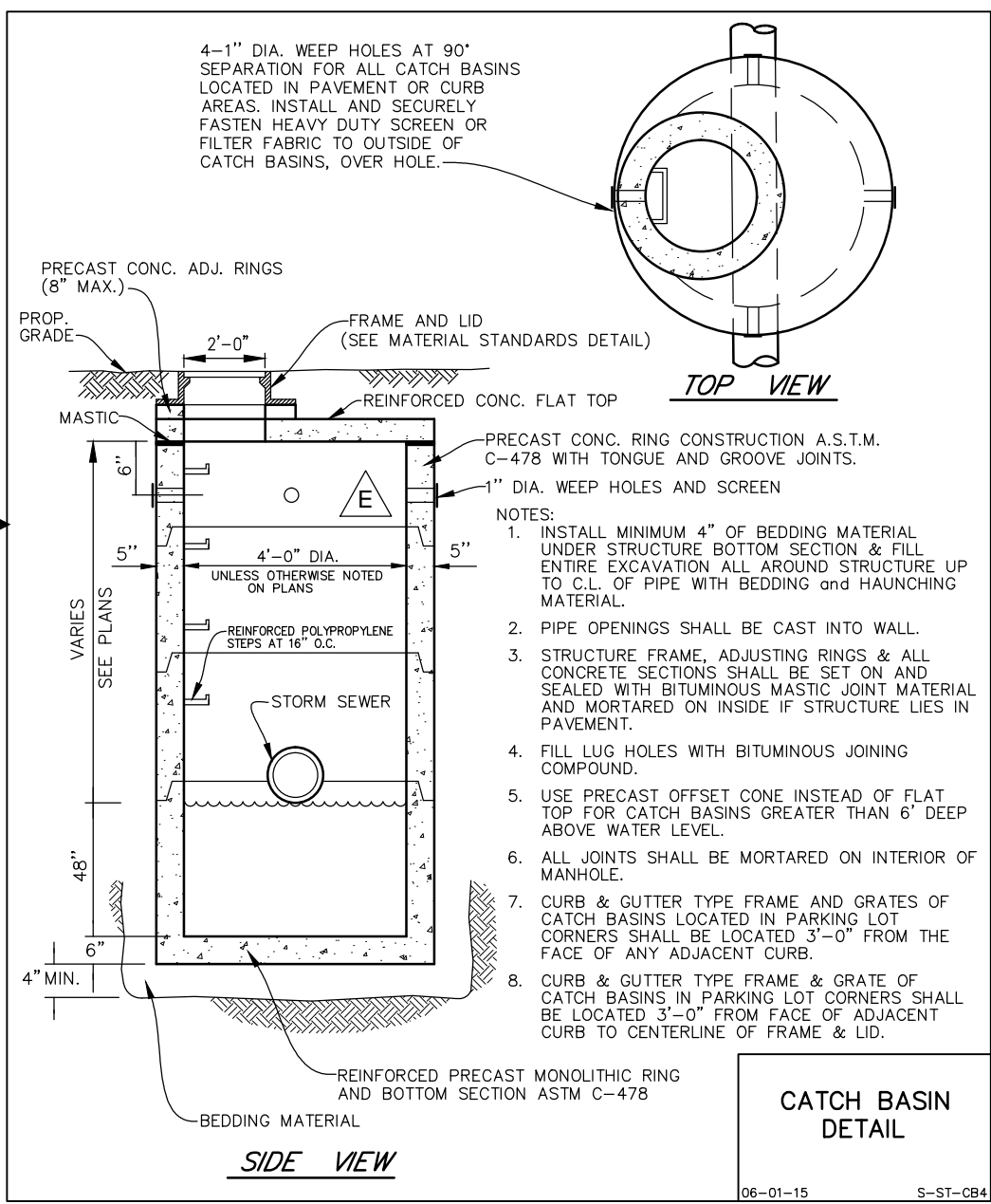
\*1 WHEREVER STORMWATER COULD POSSIBLY ENTER STORM STRUCTURE

**MATERIAL STANDARDS**  
 06-01-15 S-MS-MATRL

no.	date	by	ckd	description
	3/3/17	JY	BQ	100% SUBMITTAL



Scale For Microfitting  
Millimeters  
Inches

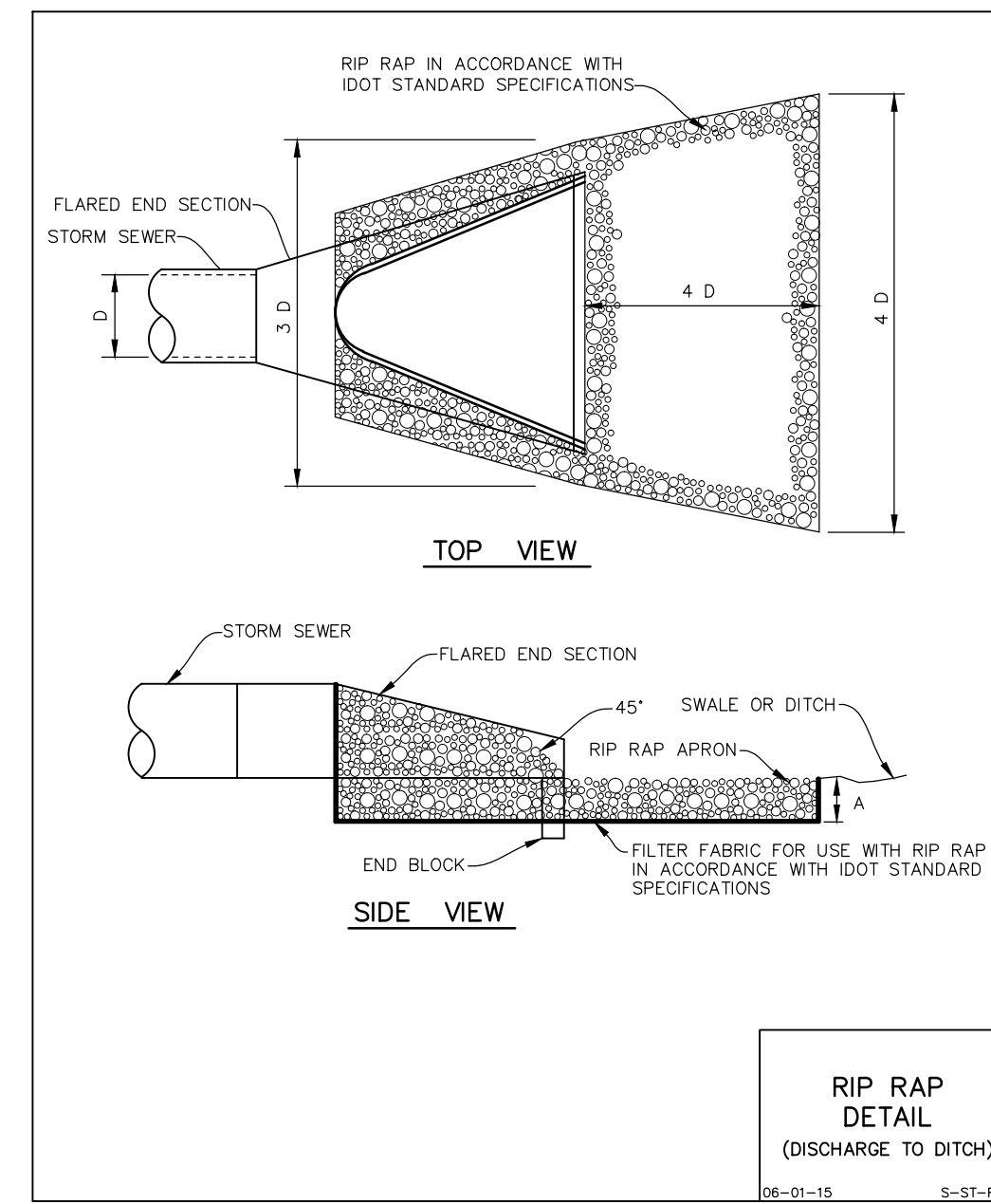
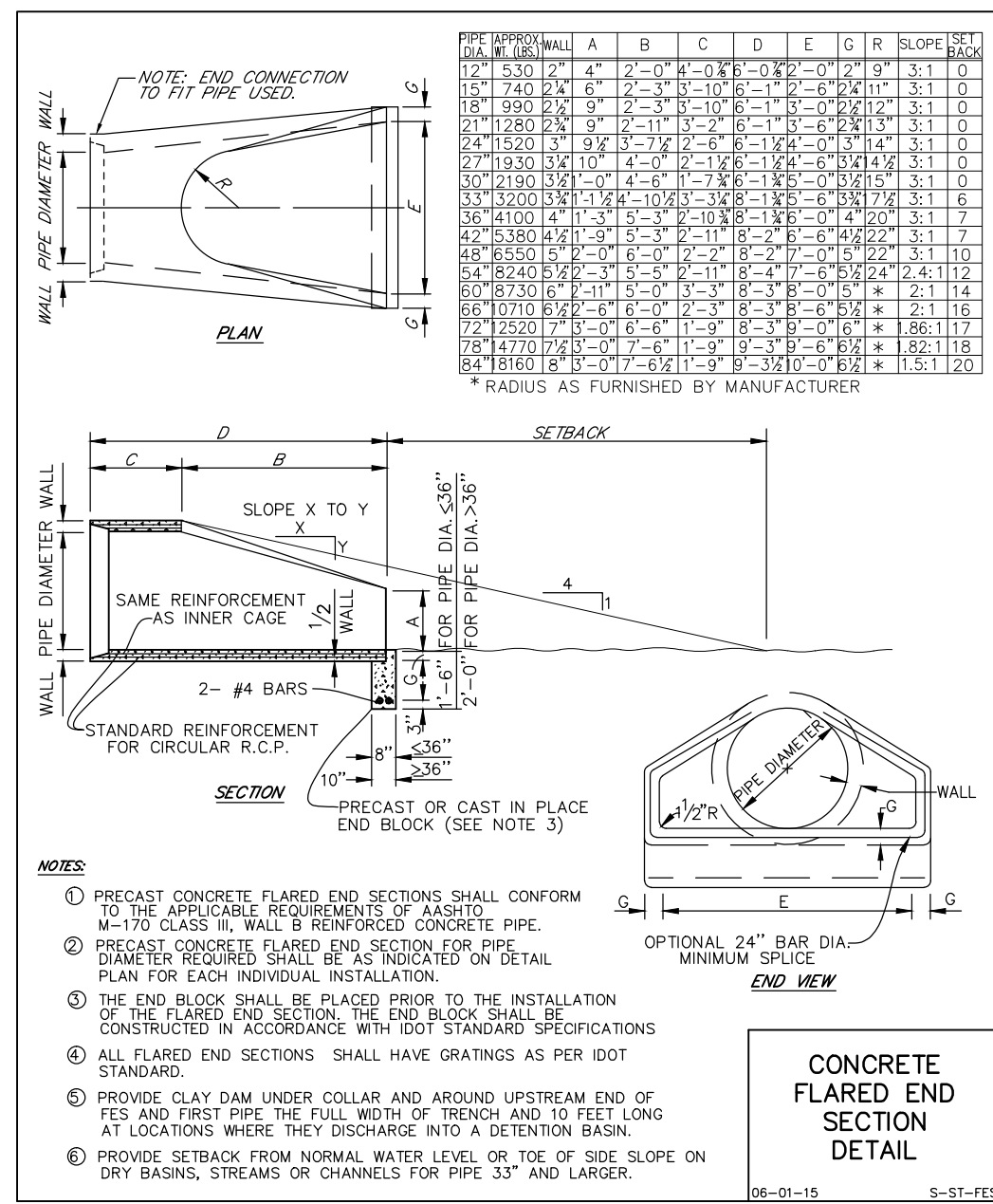


**RIP-RAP**

PIPE DIAMETER (IN.)	STONE RIP-RAP				BEDDING	
	QUALITY DESIGNATION	GRADATION NUMBER	MINIMUM LENGTH (FT.)	MINIMUM WEIGHT (#)	WEIGHT AVERAGE (#)	MINIMUM THICKNESS (IN.)
12"	B	3	8"	4'	1-50	10 4.5"
15"	B	3	8"	5'	1-50	10 4.5"
18"	B	4	16"	6'	1-150	40 7"
21"	B	4	16"	7'	1-150	40 7"
24"	B	4	16"	8'	1-150	40 7"
27"	B	4	16"	9'	1-150	40 7"
30"	B	4	16"	10'	1-150	40 7"
36"	B	5	22"	12'	3-400	90 10"
42"	B	5	22"	14'	3-400	90 10"
48"	B	6	26"	16'	6-600	170 12"
54"	B	6	26"	18'	6-600	170 12"
60"	B	6	26"	20'	6-600	170 12"
72"	B	6	26"	24'	6-600	170 12"

**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-RPP



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date	detailed
designed	checked
KEVIN SHEA	DIANE BOUCKAERT

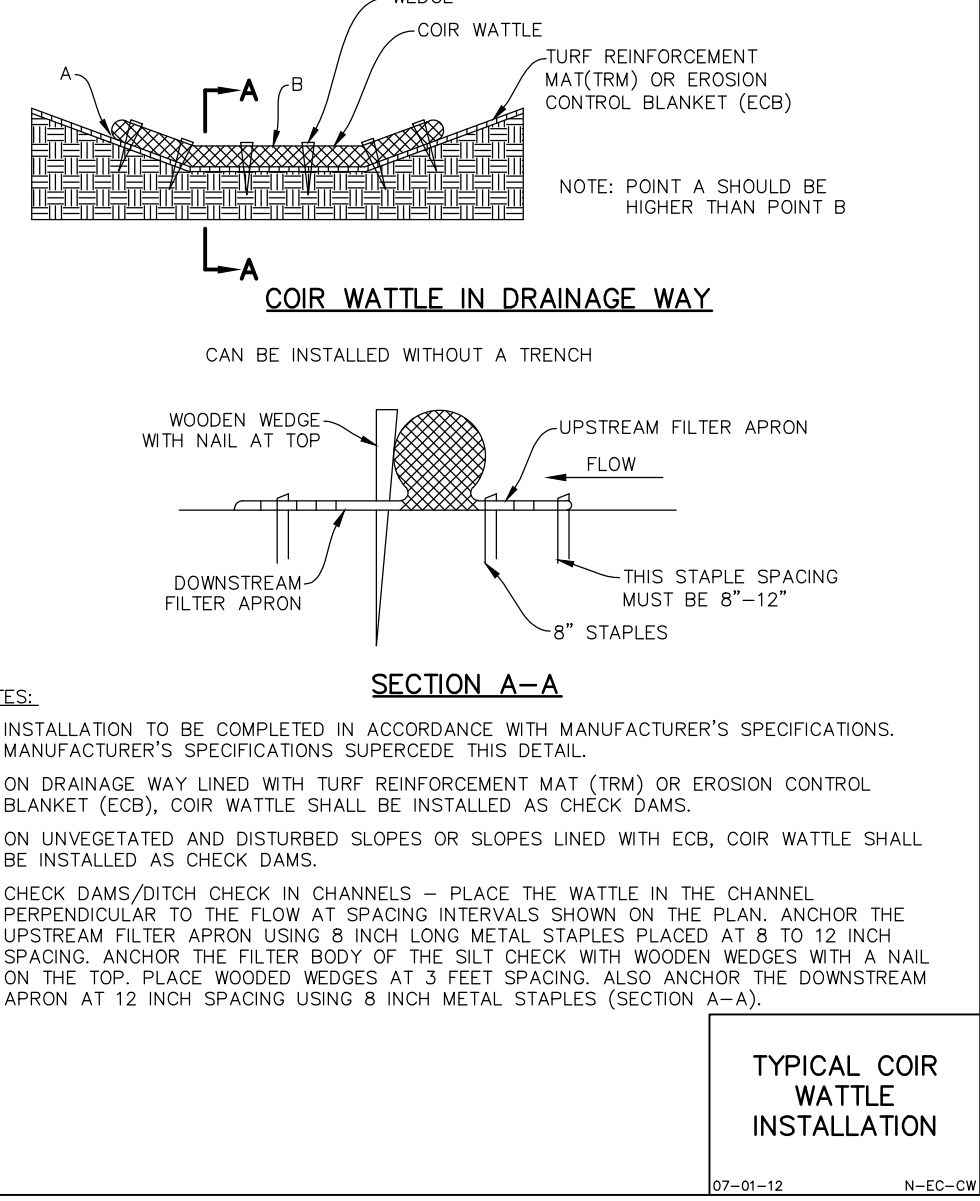
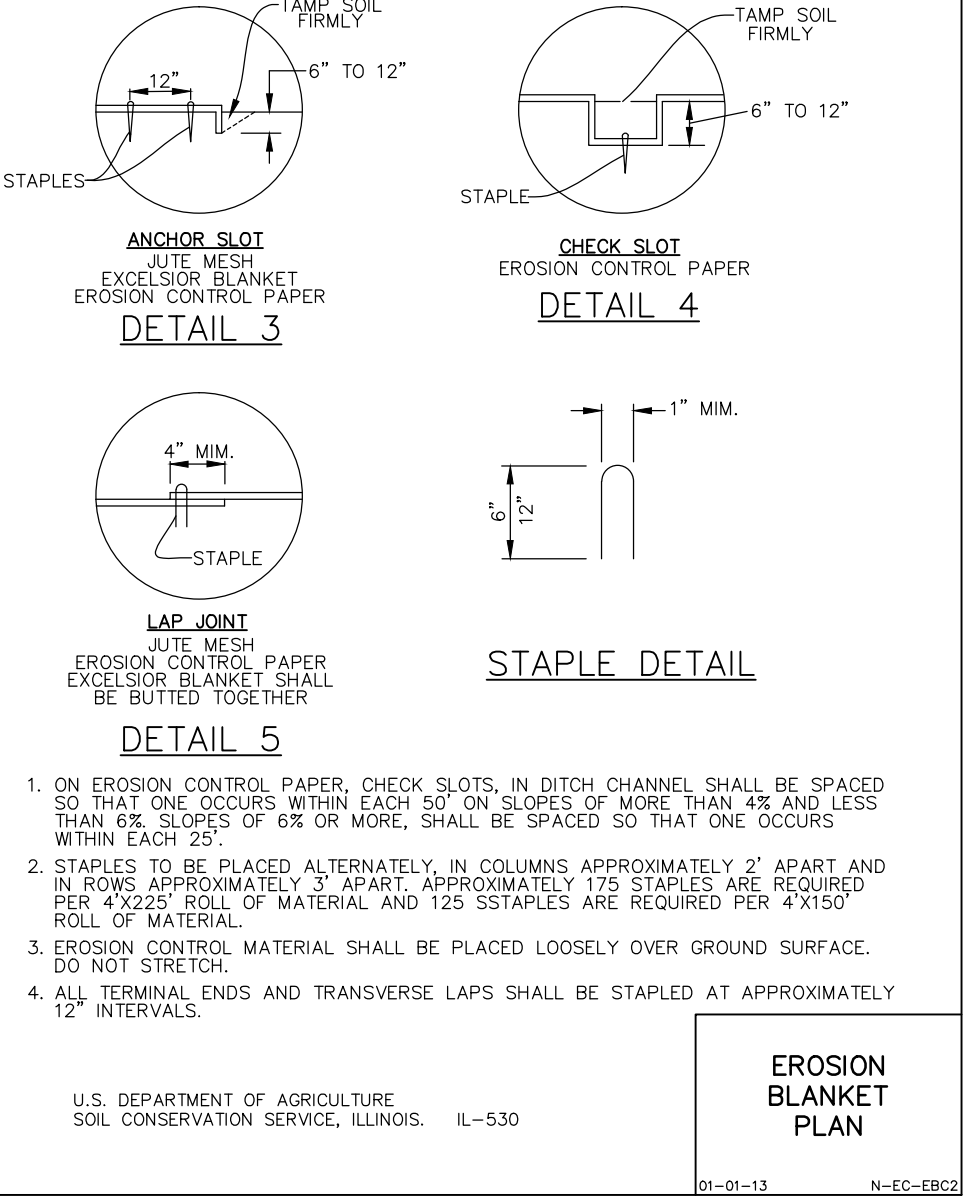
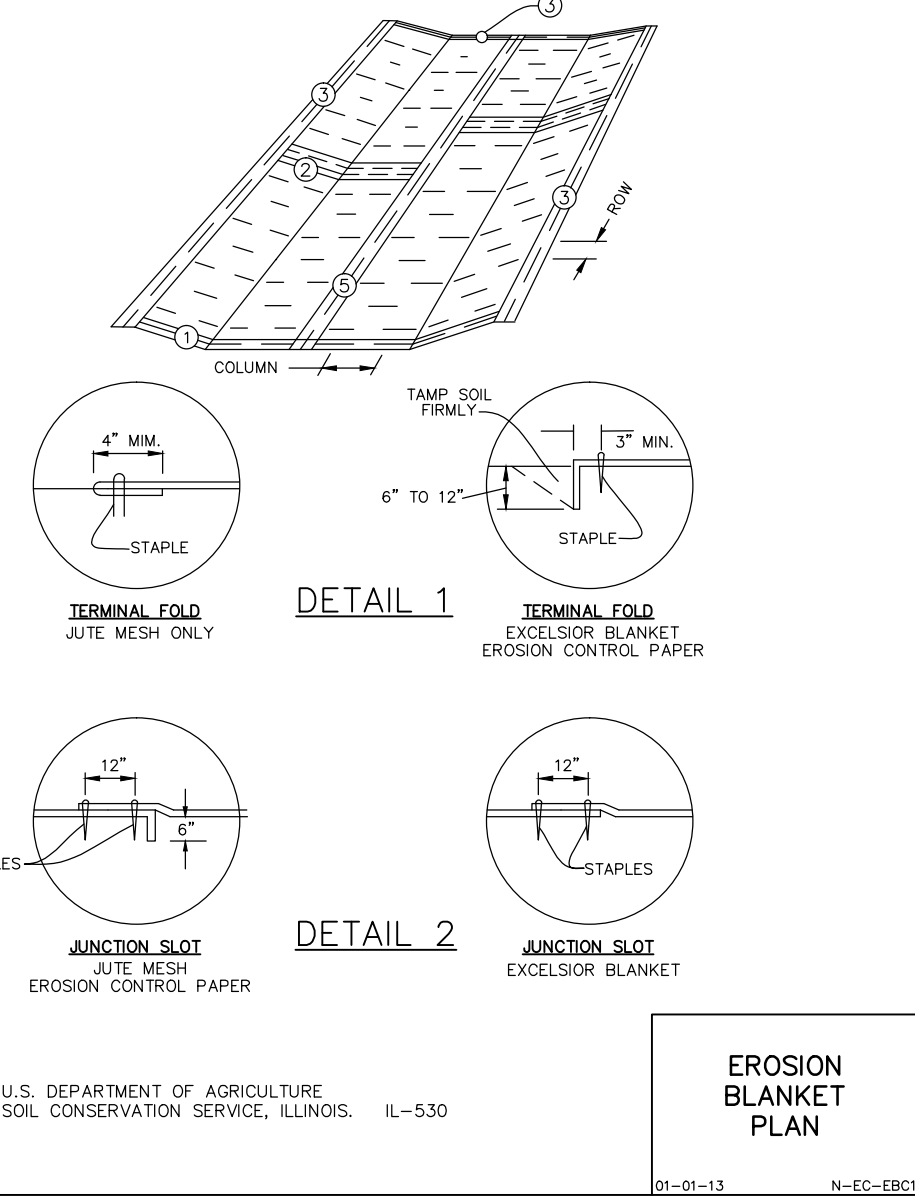
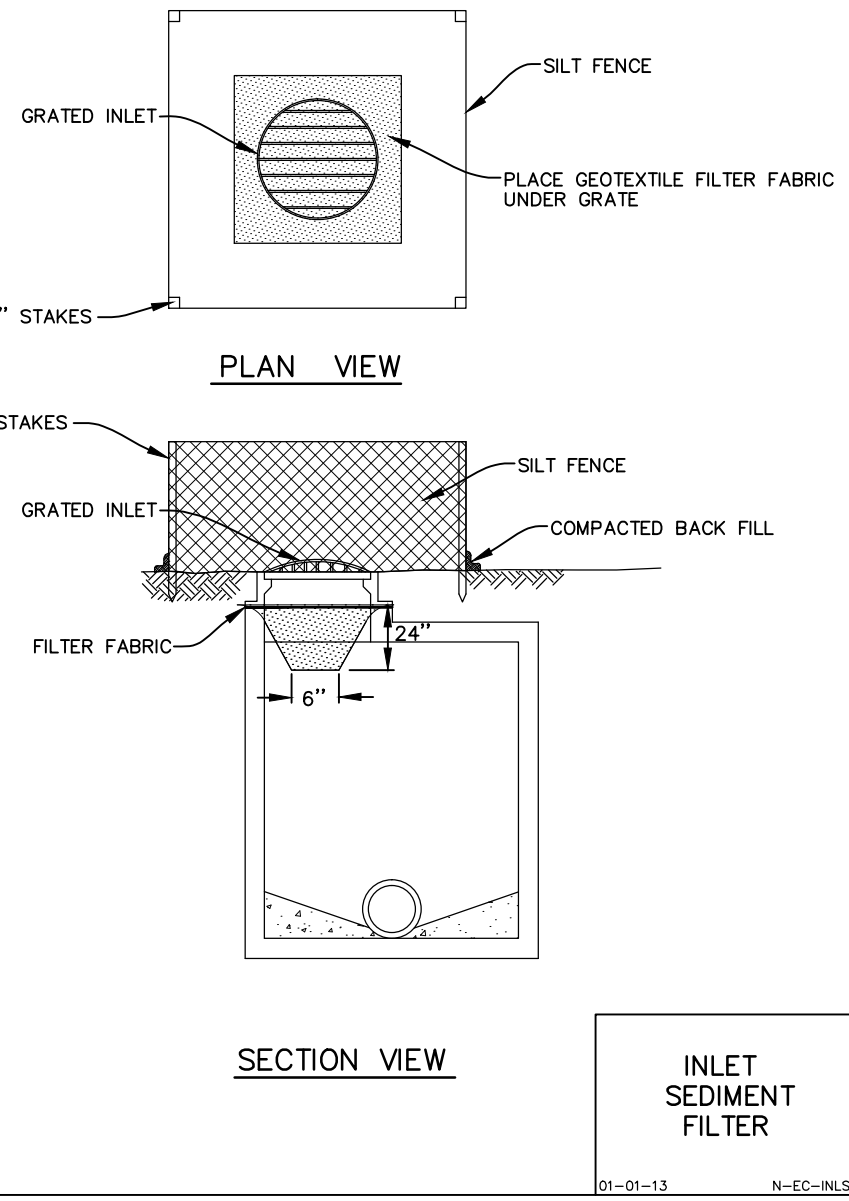
**DUPAGE AIRPORT AUTHORITY**  
 DuPage, Illinois

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

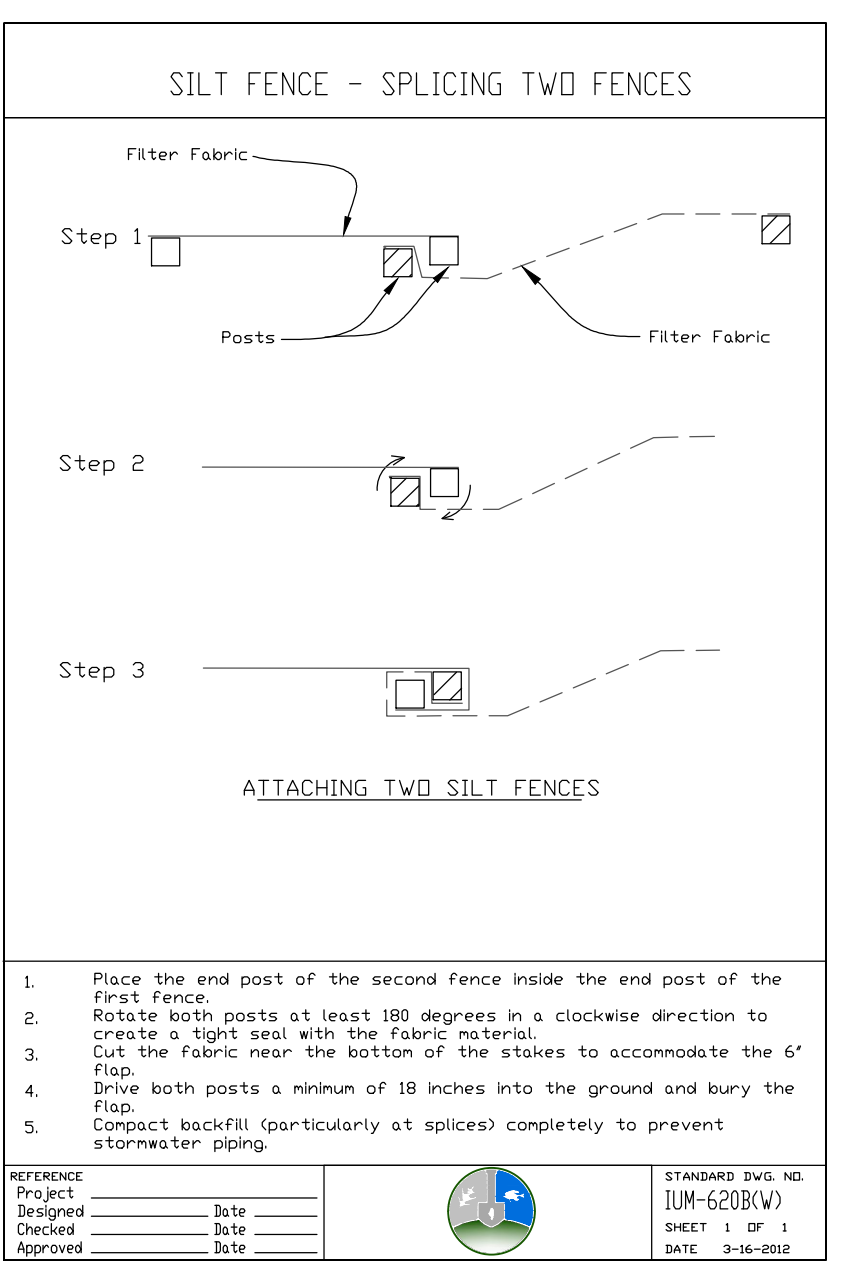
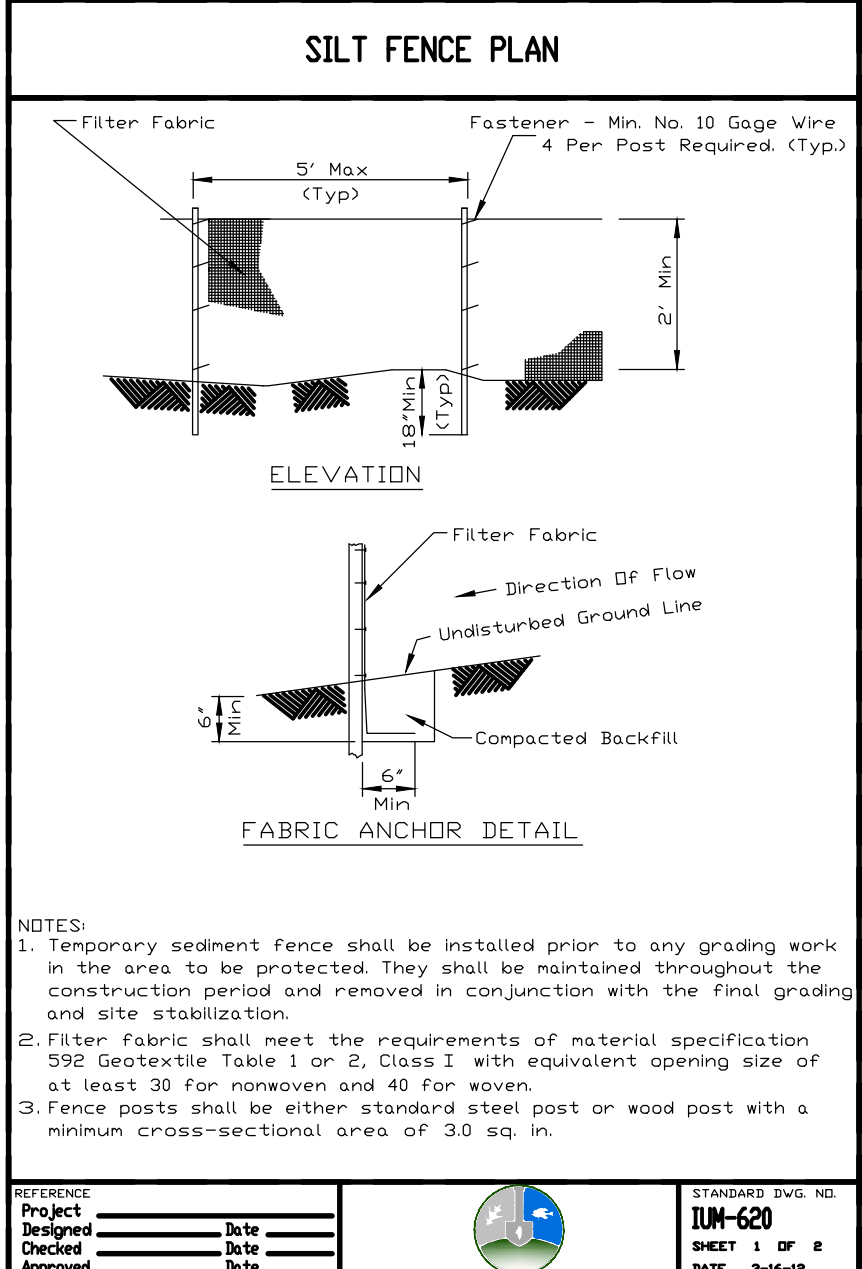
IL proj: DPA-4488 | contract  
 BmCd: 95738 | DU082

drawing rev.  
**CU-201**

sheet 21 of 32 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 ONCE 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. ONSITE 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 SEEDED 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 DISPERSED 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.
  - OVERLAND FLOW SHALL BE DIRECTED TO THE DETENTION SWALES PRIOR TO LEAVING THE SITE.
  - THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE CLIENT OR OTHER JURISDICTIONAL GOVERNMENTAL ENTITIES.
  - 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.



no.	date	by	ckd	description
3/3/17	JY	BQ		100% SUBMITTAL



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

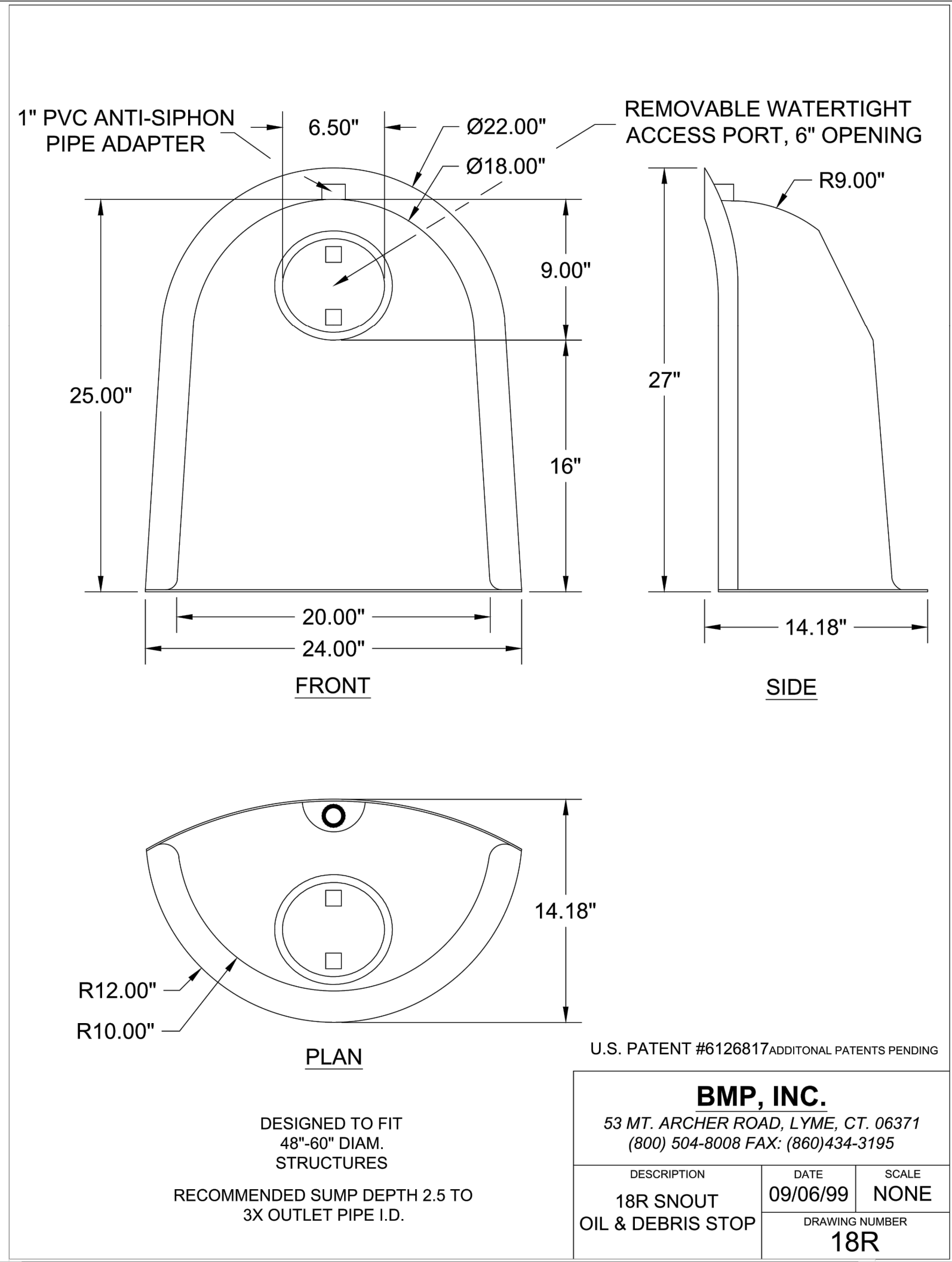
date	detailed
designed	checked
KEVIN SHEA	DIANE BOUCKAERT



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

IL proj: DPA-4488	contract
BMcD: 95738	DU082
drawing	rev.
<b>CU-202</b>	
sheet 22	of 32 sheets
file	

Scale For Microlifting  
 Millimeters  
 Inches

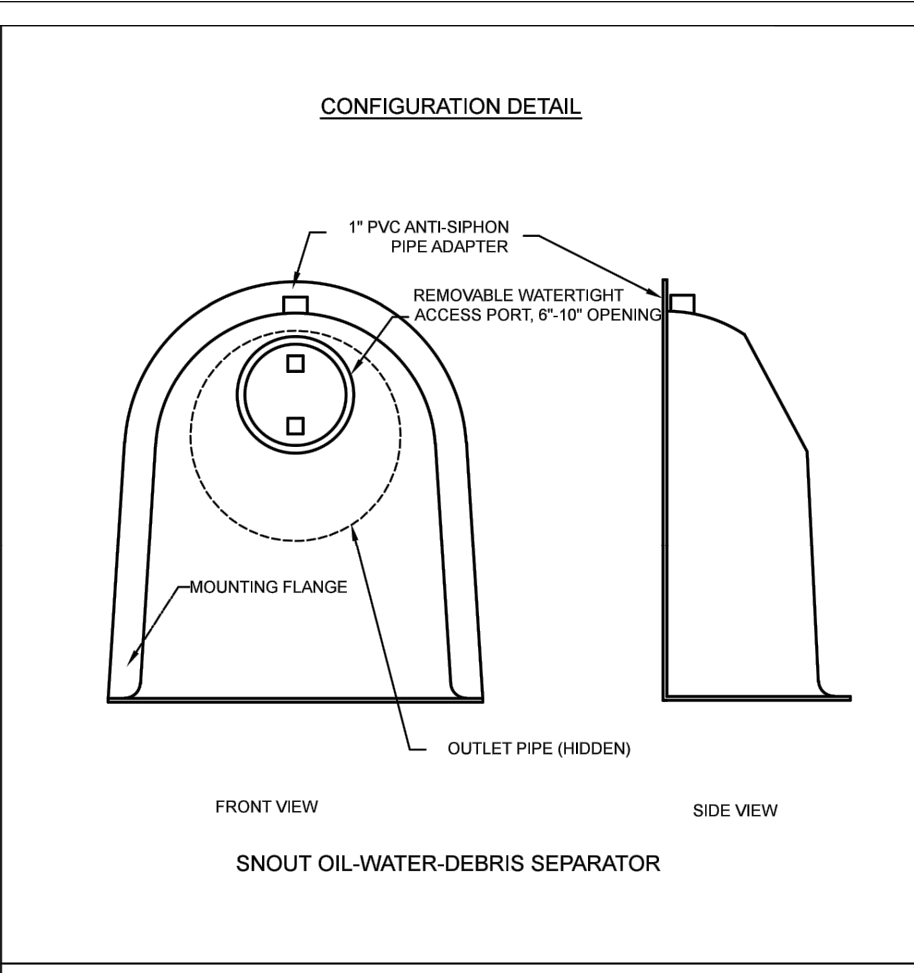


U.S. PATENT #6126817 ADDITIONAL PATENTS PENDING

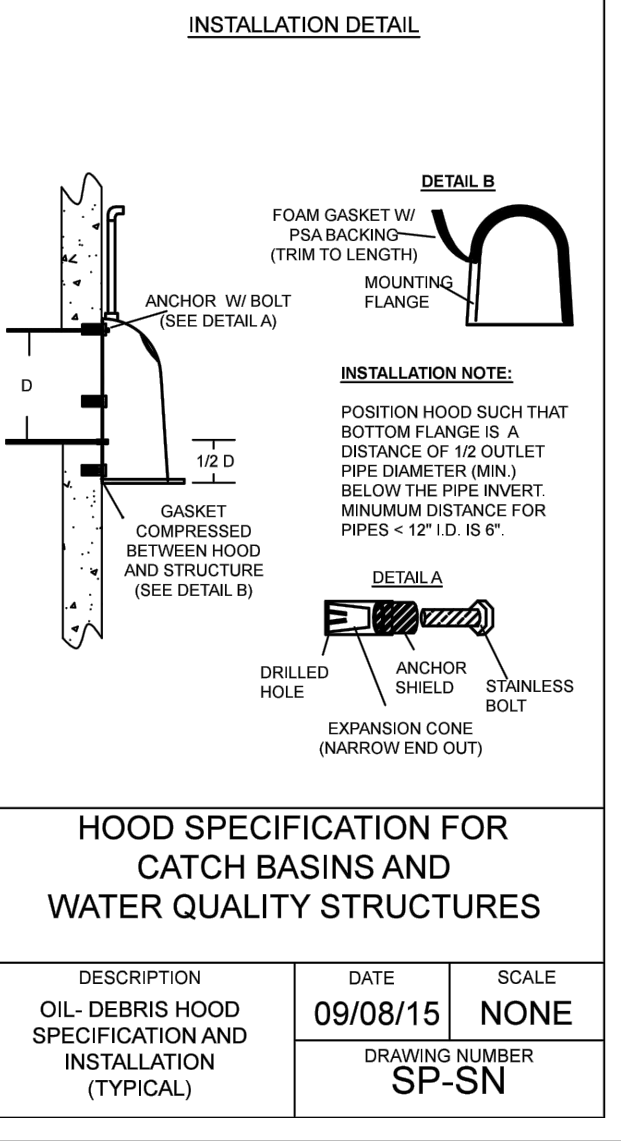
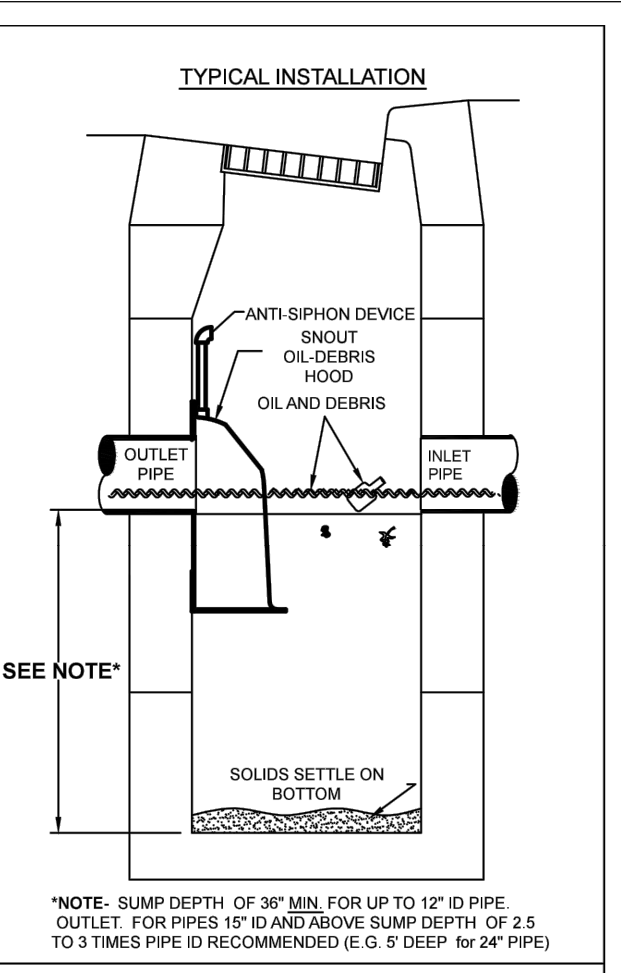
**BMP, INC.**  
53 MT. ARCHER ROAD, LYME, CT. 06371  
(800) 504-8008 FAX: (860) 434-3195

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

DESIGNED TO FIT 48"-60" DIAM. STRUCTURES  
RECOMMENDED SUMP DEPTH 2.5 TO 3X OUTLET PIPE I.D.

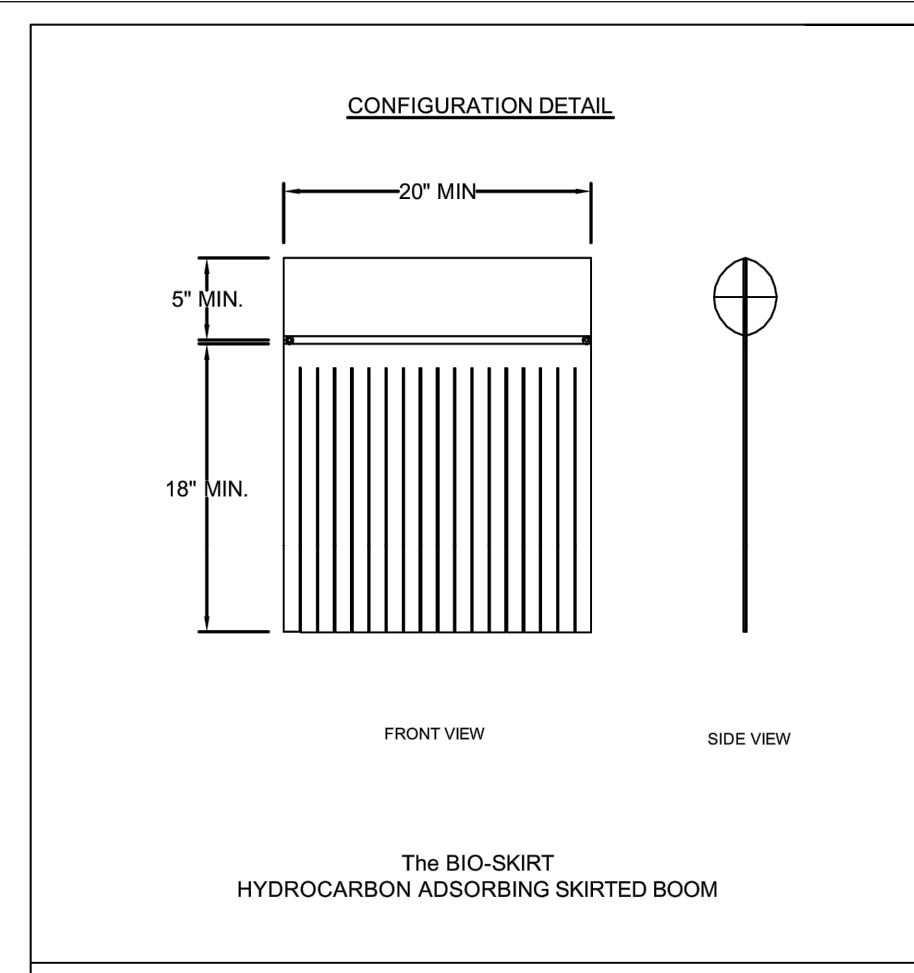


- NOTES:**
- ALL HOODS AND TRAPS FOR CATCH BASINS AND WATER QUALITY STRUCTURES SHALL BE AS MANUFACTURED BY: BEST MANAGEMENT PRODUCTS, INC. 53 MT ARCHER RD. LYME, CT 06371 (860) 434-0277, (860) 434-3195 FAX TOLL FREE: (800) 504-8008 OR (888) 434-0277 WEB SITE: www.bmpinc.com OR PRE-APPROVED EQUAL.
  - 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 3/8" STAINLESS STEEL BOLTS AND OIL-RESISTANT GASKET AS SUPPLIED BY MANUFACTURER. (SEE INSTALLATION DETAIL).
  - INSTALLATION INSTRUCTIONS SHALL BE FURNISHED WITH MANUFACTURER SUPPLIED 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  
E. ANCHOR SHIELDS
- US Patent # 6126817, 7951294, 7857966, 8512556  
Canada Patent # 2285146, 2690156, 2690155 others pending

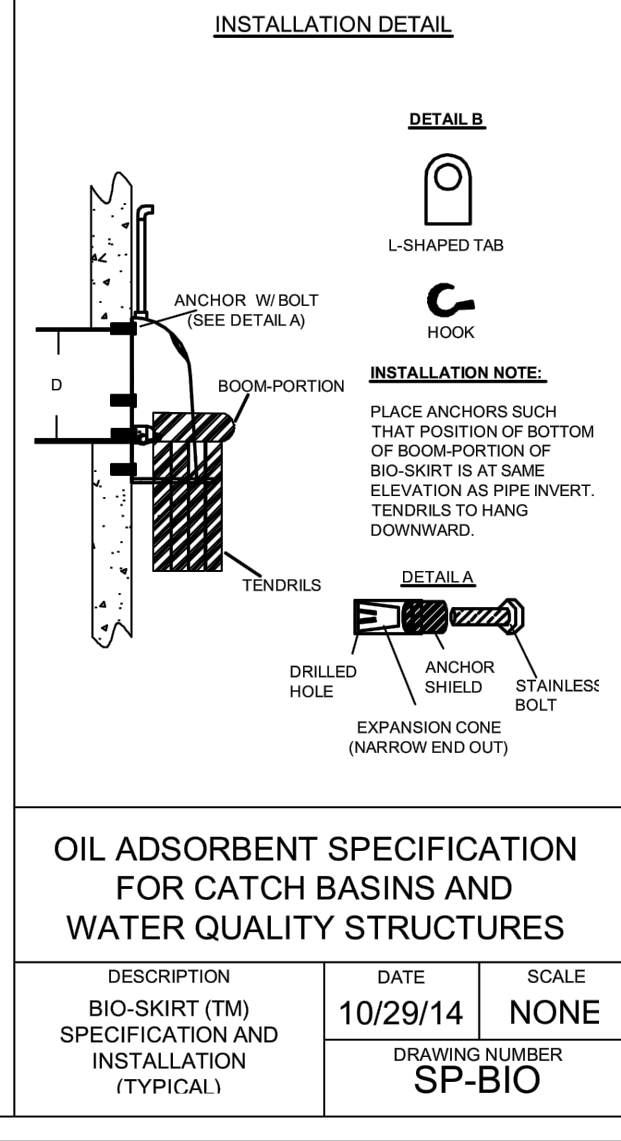
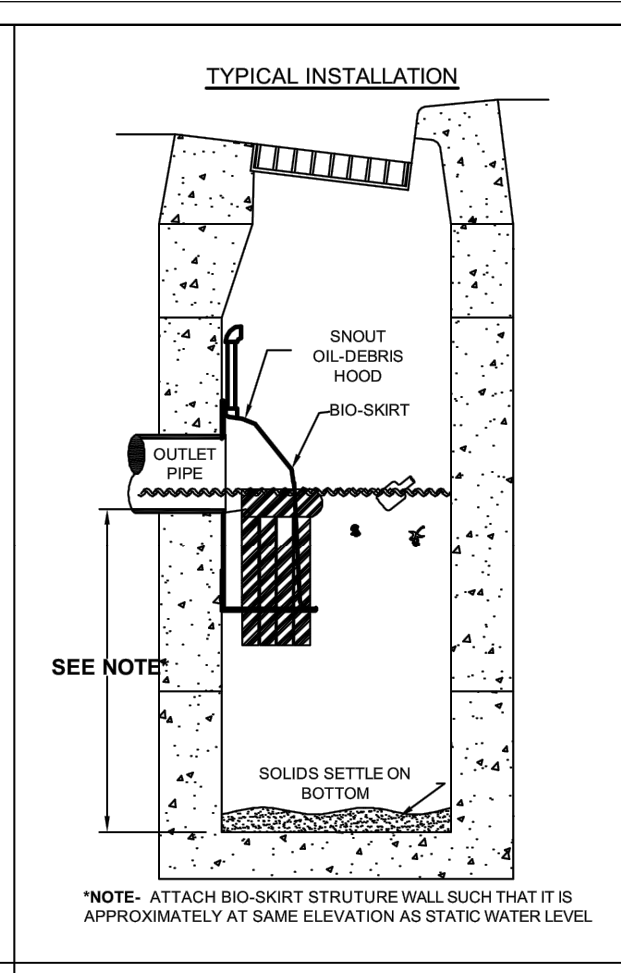


**HOOD SPECIFICATION FOR CATCH BASINS AND WATER QUALITY STRUCTURES**

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

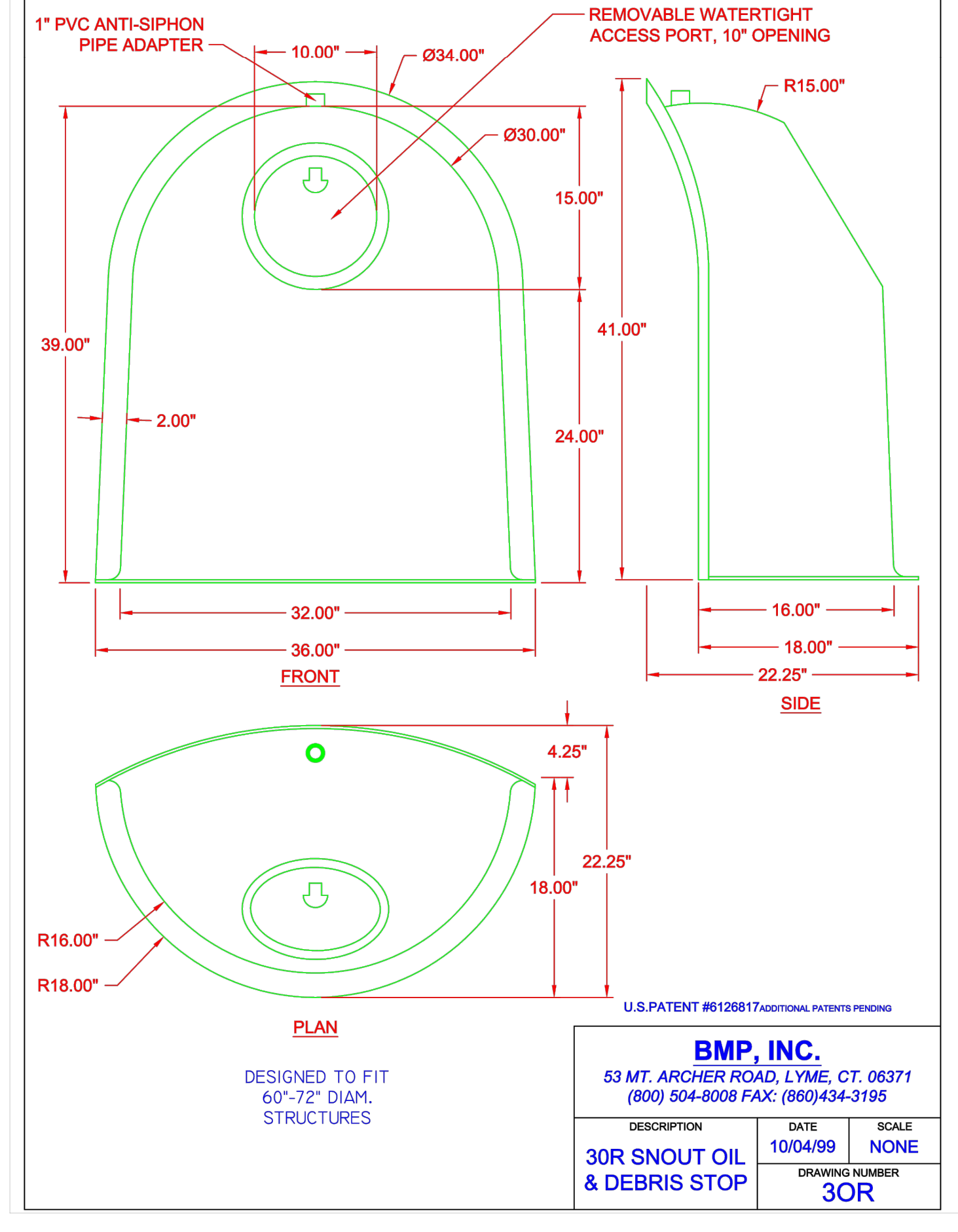


- NOTES:**
- All new and/or existing catch basins or water quality structures shall be outfitted with the Bio-Skirt(R) Hydrocarbon reducing skirted boom as manufactured by: BEST MANAGEMENT PRODUCTS, INC. 53 MT ARCHER RD. LYME, CT 06371 (860) 434-0277, (860) 434-3195 FAX TOLL FREE: (800) 504-8008 OR (888) 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



**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	



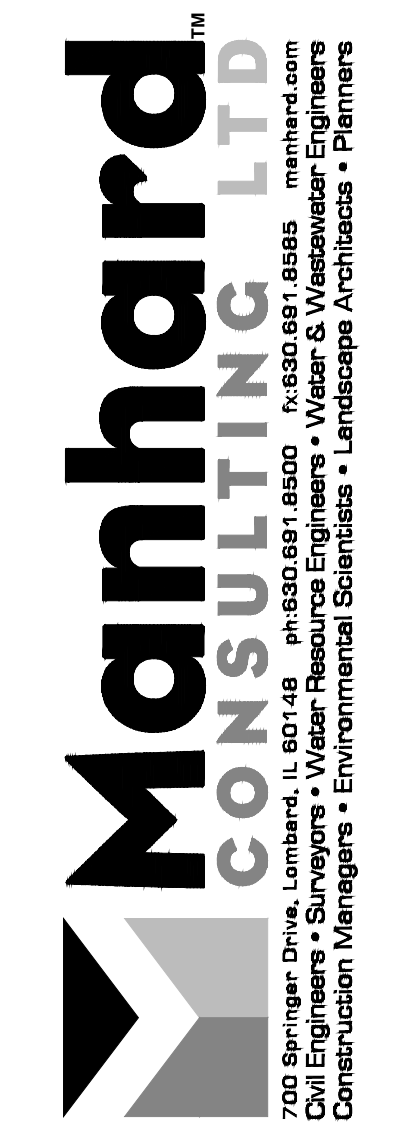
U.S. PATENT #6126817 ADDITIONAL PATENTS PENDING

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

DESCRIPTION	DATE	SCALE
30R SNOUT OIL & DEBRIS STOP	10/04/99	NONE
DRAWING NUMBER	30R	

DESIGNED TO FIT 60"-72" DIAM. STRUCTURES

no.	date	by	ckd	description
	3/3/17	JY	BQ	100% SUBMITTAL



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

date	detailed
	KEVIN SHEA
designed	checked
KEVIN SHEA	DIANE BOUCKAERT



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

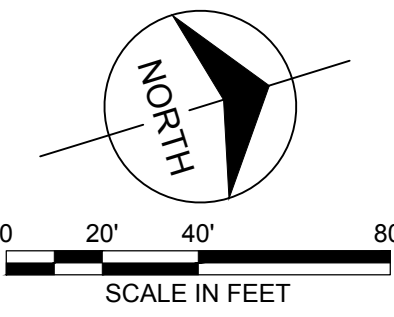
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drawing	rev.	
<b>CU-203</b>		
sheet	23	of 32 sheets
file		

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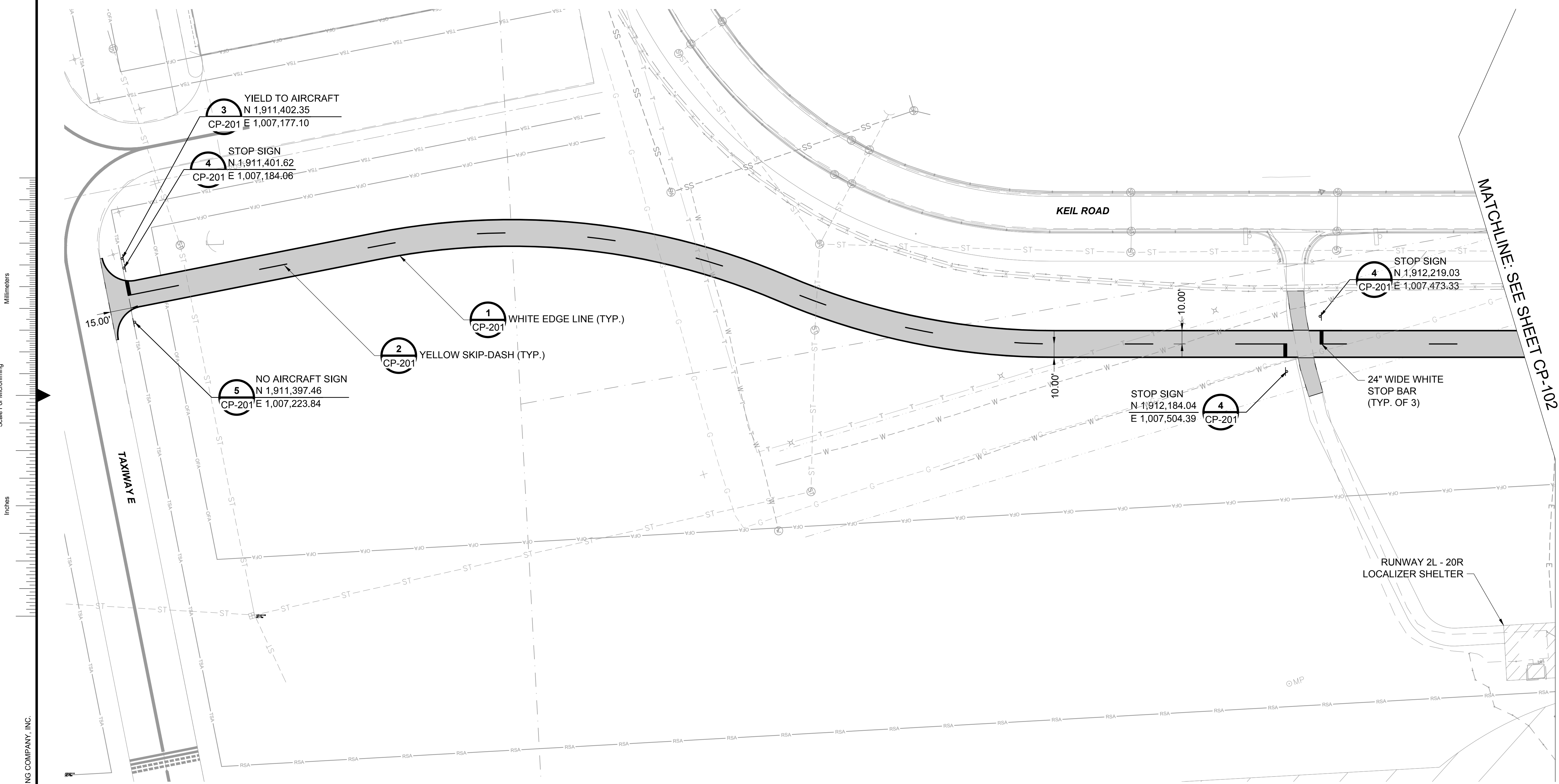
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**NOTES:**  
 1. SEE DRAWING CS-100 FOR CENTERLINE LAYOUT INFORMATION.



no.	date	by	ckd	description
3/3/17	JY	BQ		100% SUBMITTAL



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

date JANUARY 3, 2017	detailed J. YAHYA
designed J. YAHYA	checked B. QUINLAN

**DUPAGE AIRPORT AUTHORITY**  
 DuPage, Illinois

**NORTH END PERIMETER ROADWAY**

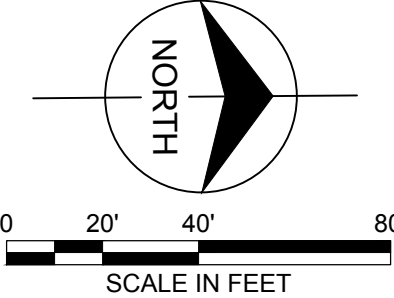
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IL proj: DPA-4488	contract
BMcD: 95738	DU082
drawing	rev.
<b>CP-101</b>	
sheet 24	of 32 sheets
file	

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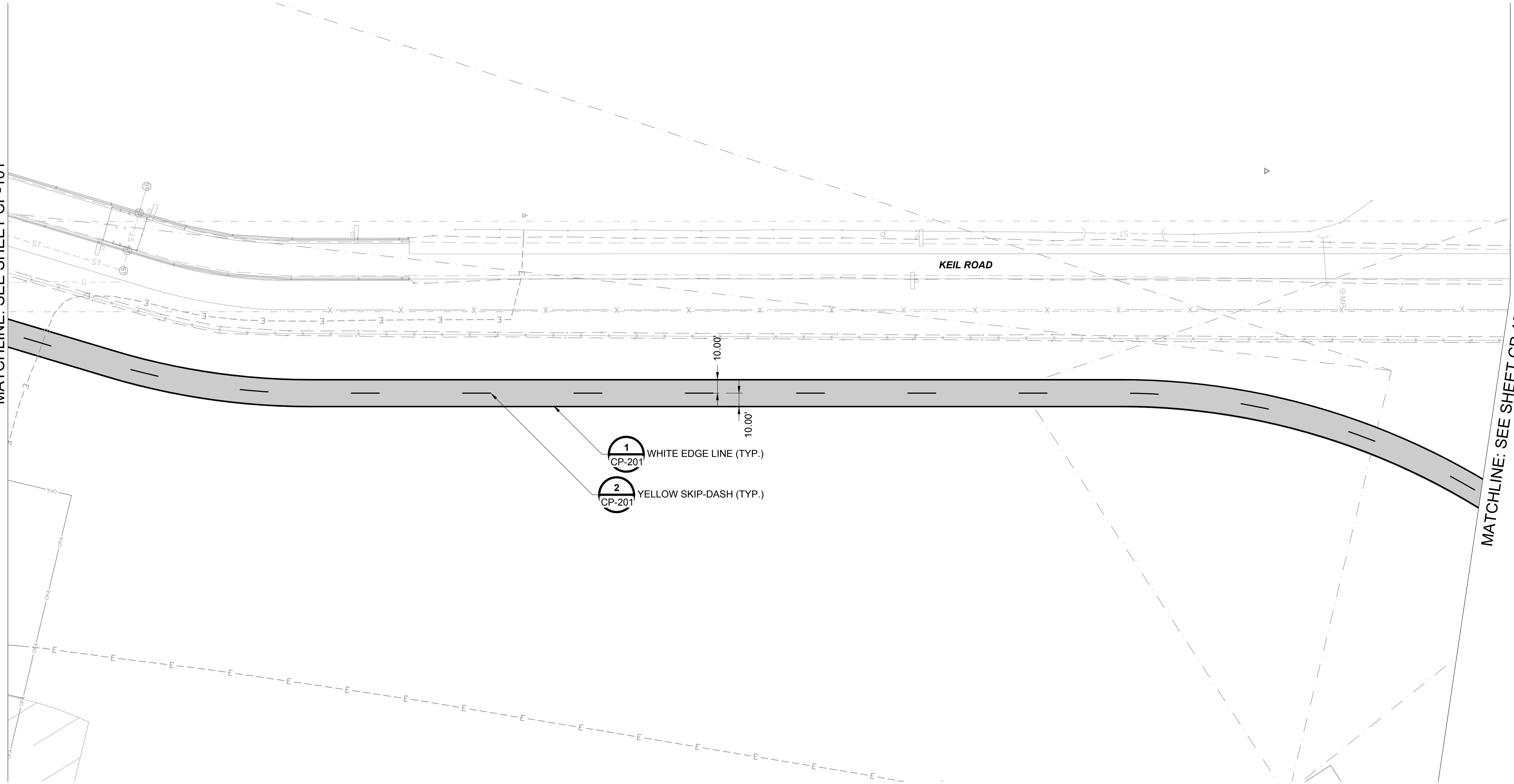
**NOTES:**  
 1. SEE DRAWING CS-100 FOR CENTERLINE LAYOUT INFORMATION.



no.	date	by	ckd	description
	3/3/17	JY	BQ	100% SUBMITTAL

Scale For Microfilming  
 Millimeters  
 MATCHLINE: SEE SHEET CP-101

Inches



MATCHLINE: SEE SHEET CP-103



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

date	JANUARY 3, 2017	detailed	J. YAHYA
designed	J. YAHYA	checked	B. QUINLAN

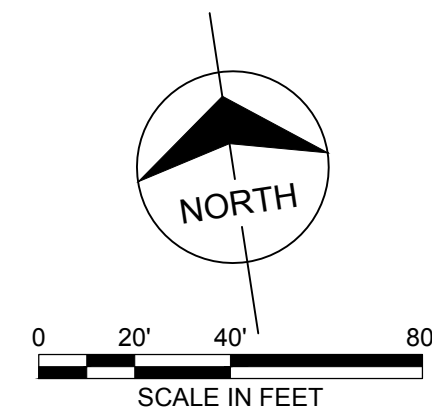


DuPage, Illinois  
**NORTH END PERIMETER ROADWAY**

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BMcD: 95738	DU082
drawing	rev.
<b>CP-102</b>	
sheet 25	of 32 sheets
file	

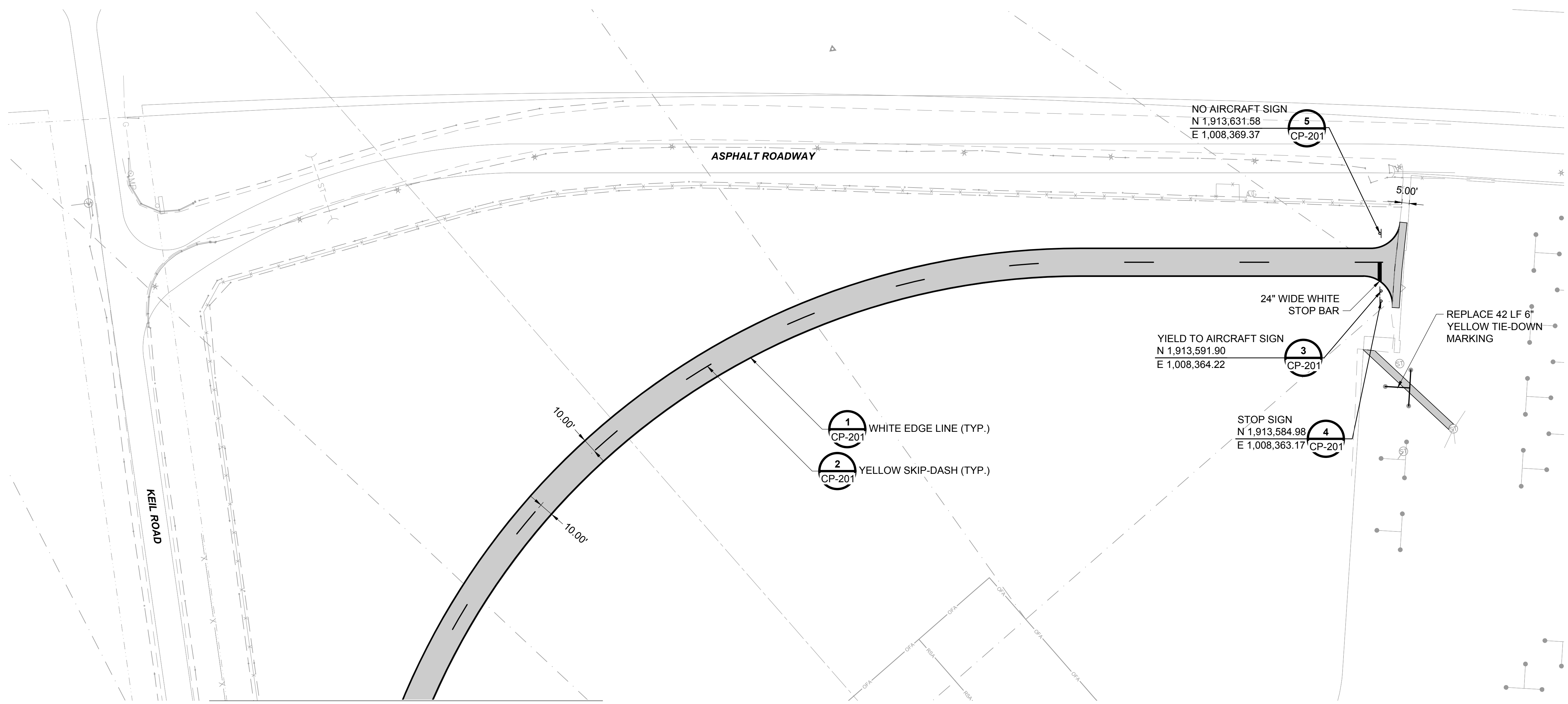
**NOTES:**

- SEE DRAWING CS-100 FOR CENTERLINE LAYOUT INFORMATION.



no.	date	by	ckd	description
	3/3/17	JY	BQ	100% SUBMITTAL

Millimeters  
 Scale For Microfining  
 Inches



MATCHLINE: SEE SHEET CP-102

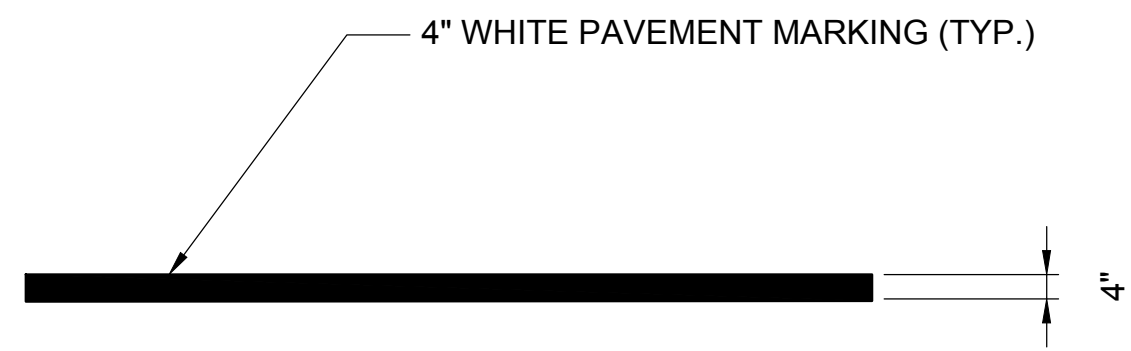
**BURNS MEDONNELL**  
 1431 OPUS PLACE, SUITE 400  
 DOWNERS GROVE, IL 60515  
 630-724-3200  
 LICENSEE NO. 184-001310

date	JANUARY 3, 2017	detailed	J. YAHYA
designed	J. YAHYA	checked	B. QUINLAN

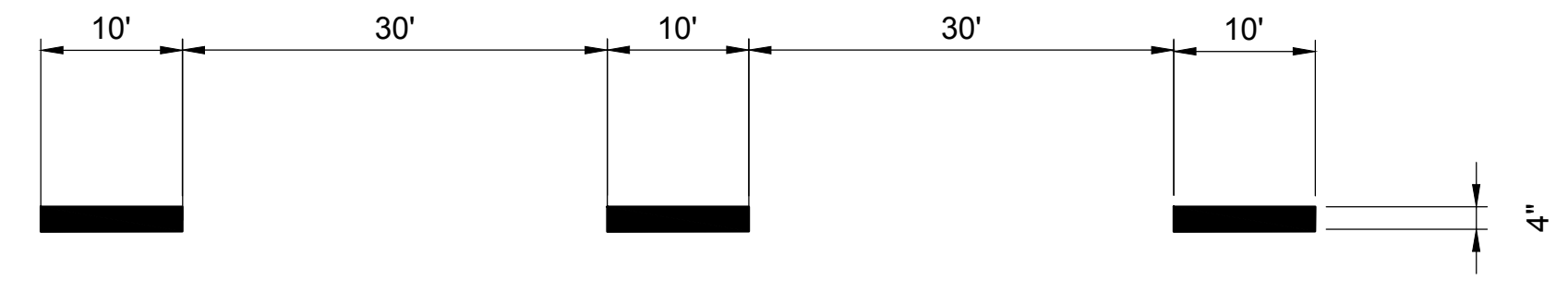
**DUPAGE AIRPORT AUTHORITY**  
 DuPage, Illinois

<b>NORTH END PERIMETER ROADWAY</b>	
PAVEMENT MARKING AND SIGNAGE PLAN	
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BMcD: 95738	DU082
drawing	rev.
<b>CP-103</b>	
sheet 26	of 32 sheets
file	

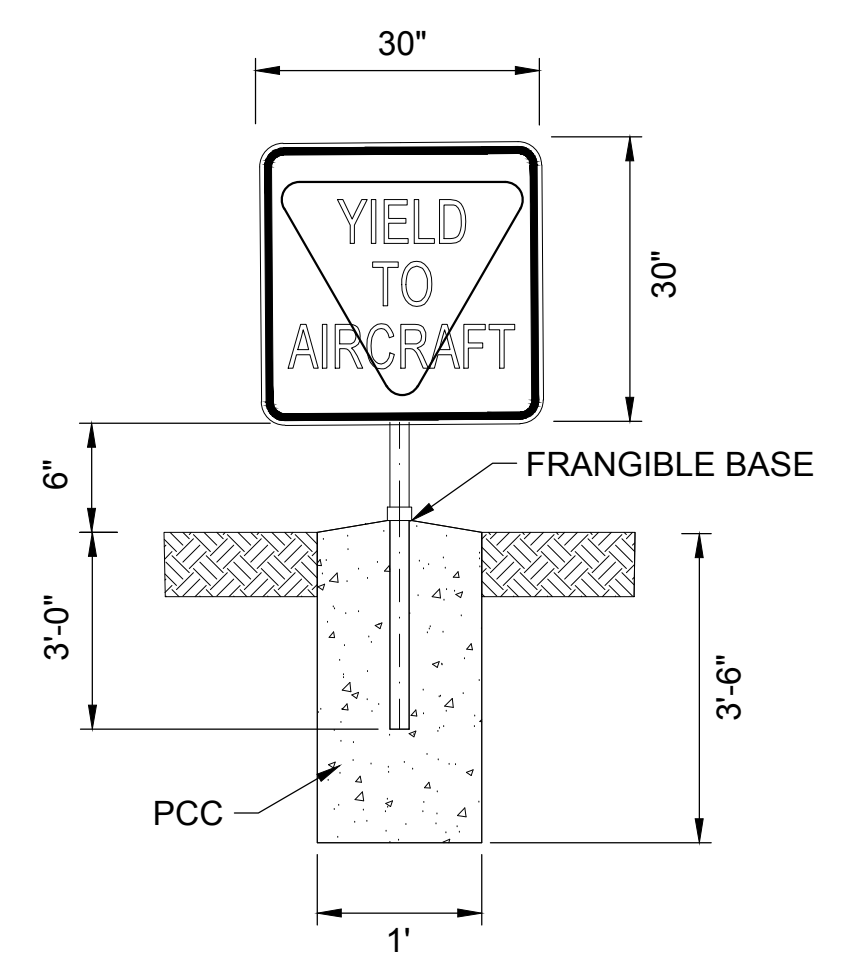
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	3/3/17	JY	BQ	100% SUBMITTAL



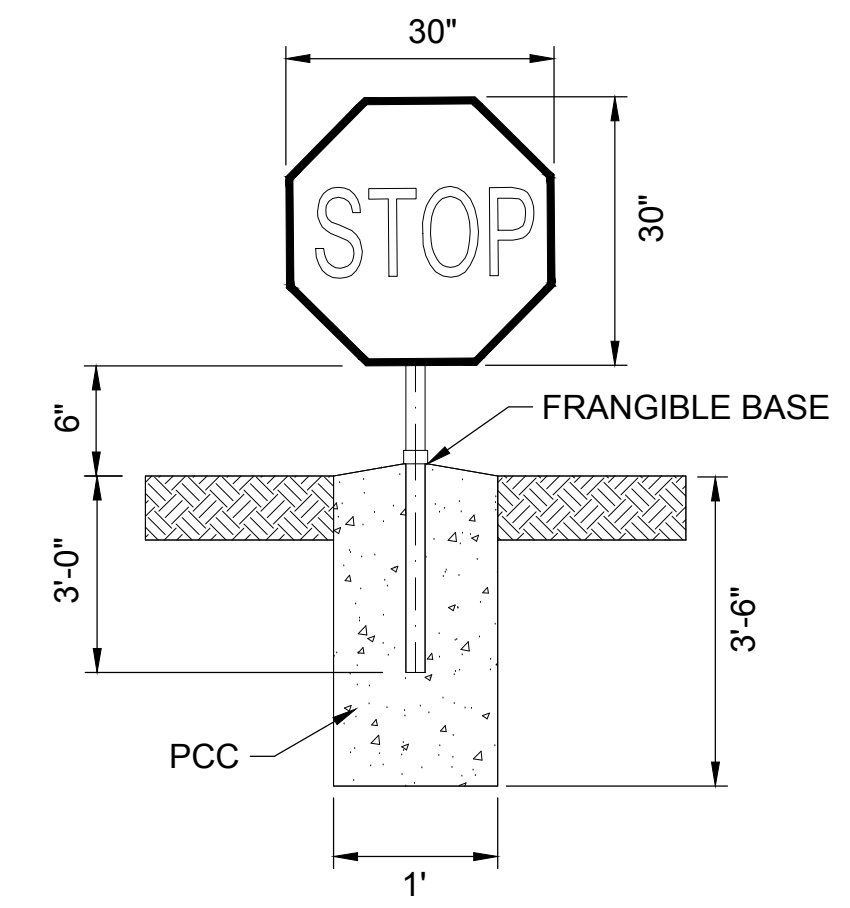
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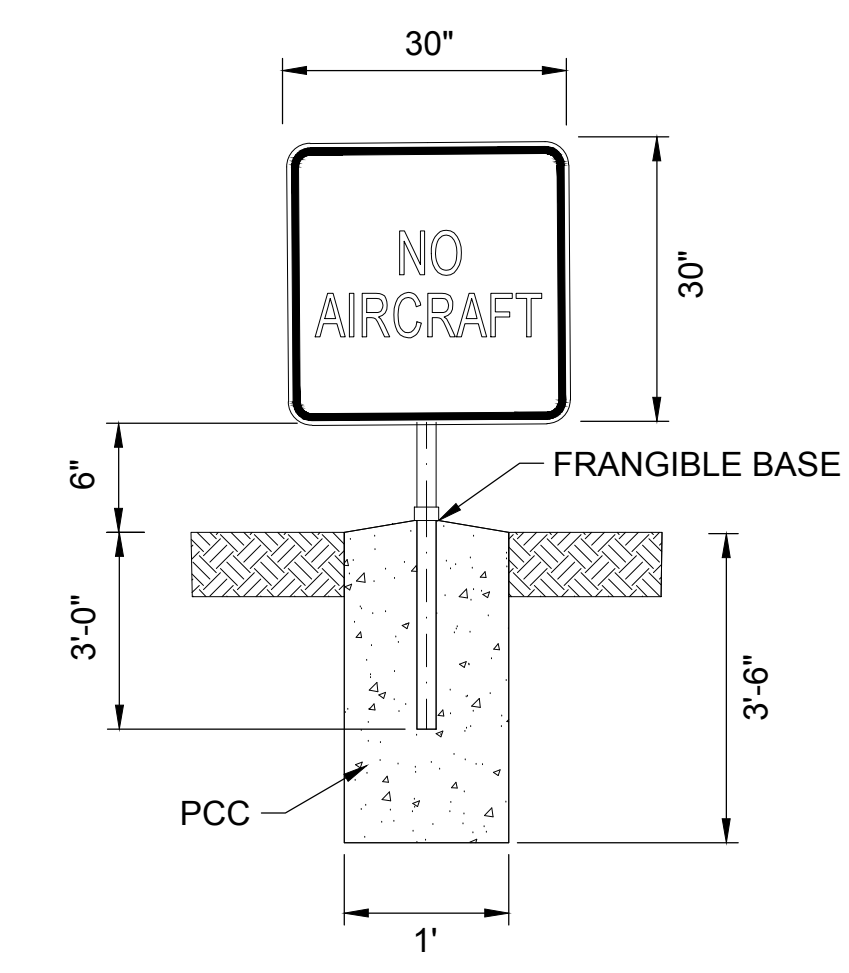
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NOT TO SCALE



**YIELD TO AIRCRAFT SIGN**  
NOT TO SCALE



**STOP SIGN**  
NOT TO SCALE



**NO AIRCRAFT SIGN**  
NOT TO SCALE

**NOTES:**  
1. SEE SPECIAL PROVISION 910 FOR ADDITIONAL REQUIREMENTS.

Scale For Microfilming  
Millimeters  
Inches

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

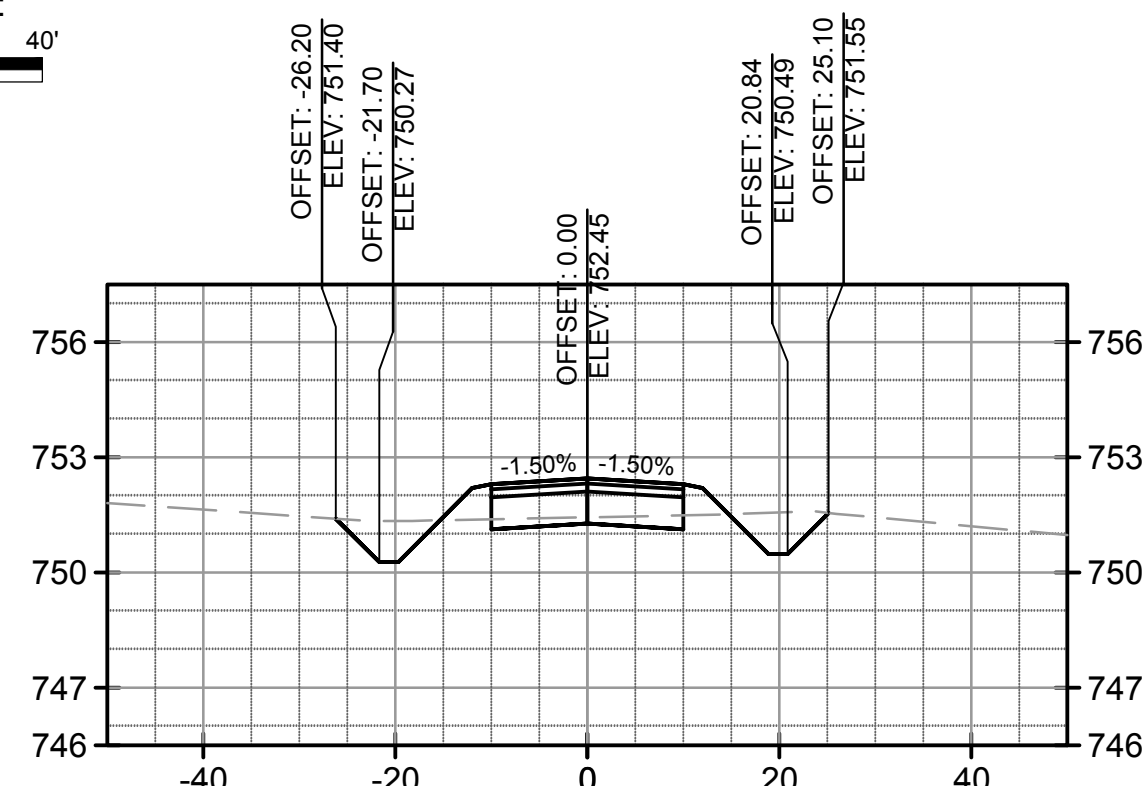
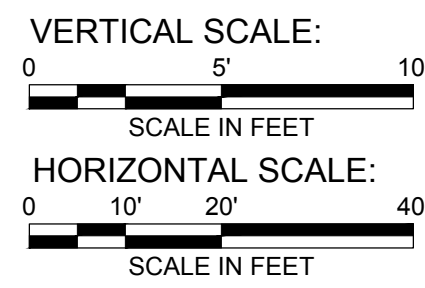
date	JANUARY 31, 2017	detailed	J. YAHYA
designed	J. YAHYA	checked	B. QUINLAN



**NORTH END PERIMETER ROADWAY**

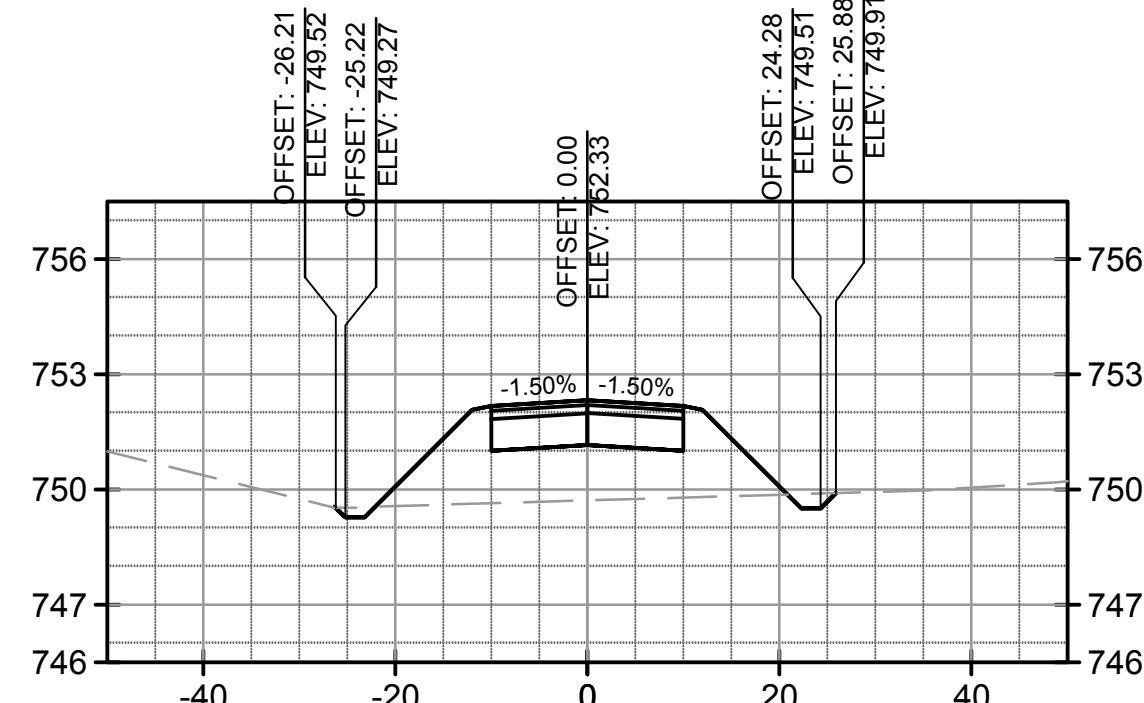
PAVEMENT MARKING DETAILS

IL proj:	DPA-4488	contract	DU082
BMcD:	95738	drawing	rev.
<b>CP-201</b>			
sheet	27	of	32 sheets
file			



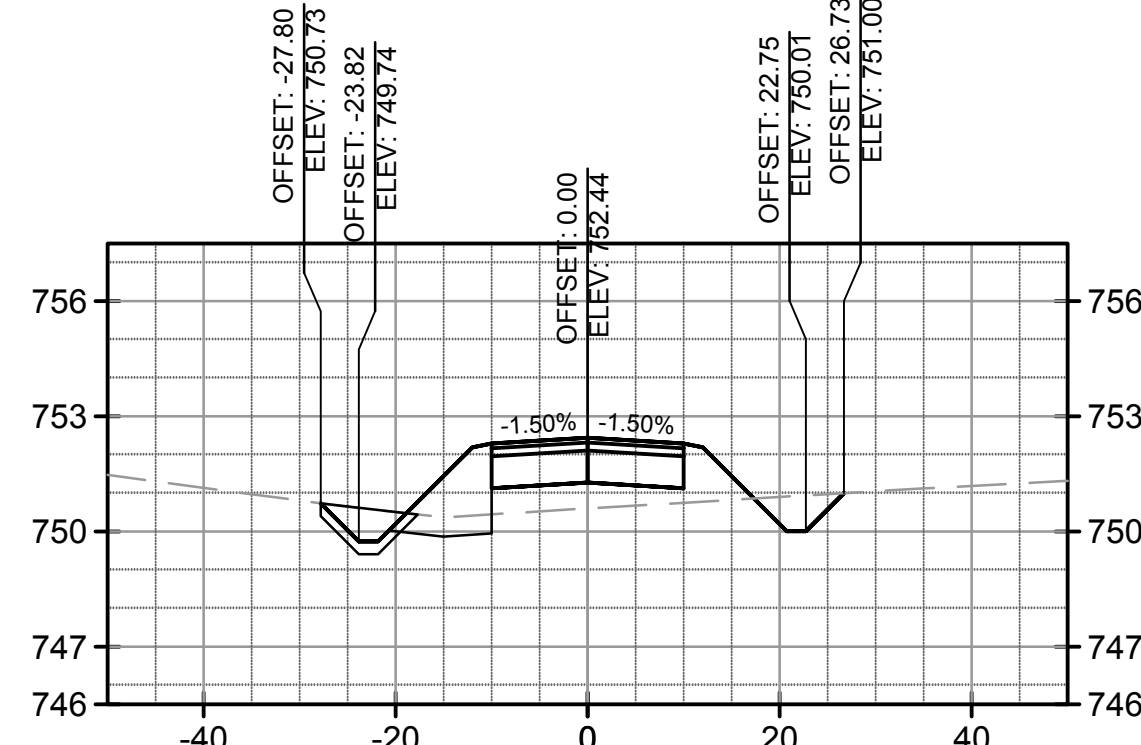
Material(s) at Station 10+50.00

Material Name	Area	Volume	Cumulative Volume
CUT	10.21	0.00	0.00
FILL	17.84	0.00	0.00



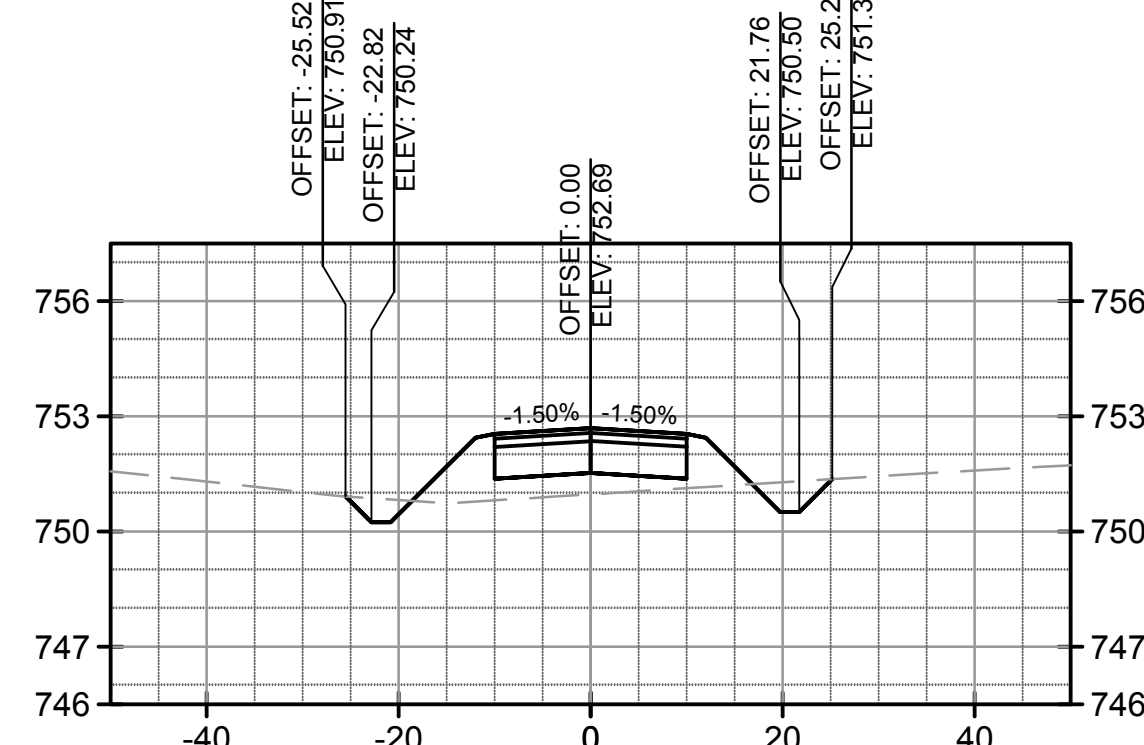
Material(s) at Station 11+00.00

Material Name	Area	Volume	Cumulative Volume
CUT	0.81	10.20	10.20
FILL	83.22	93.57	93.57



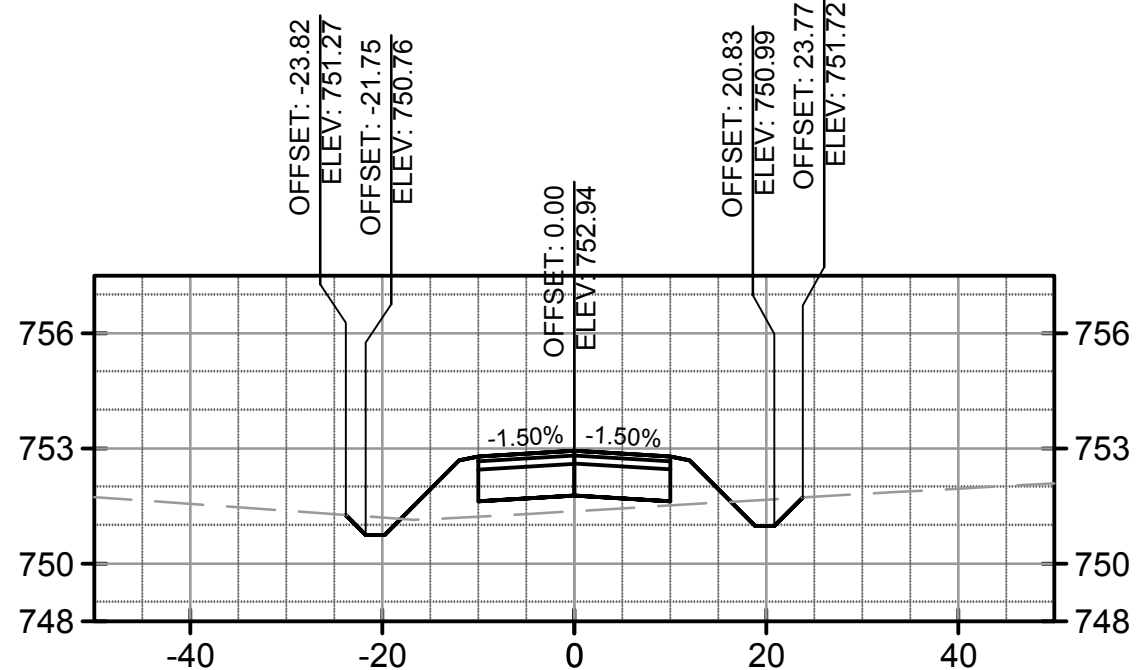
Material(s) at Station 11+50.00

Material Name	Area	Volume	Cumulative Volume
CUT	6.99	7.22	17.42
FILL	48.87	122.30	215.88



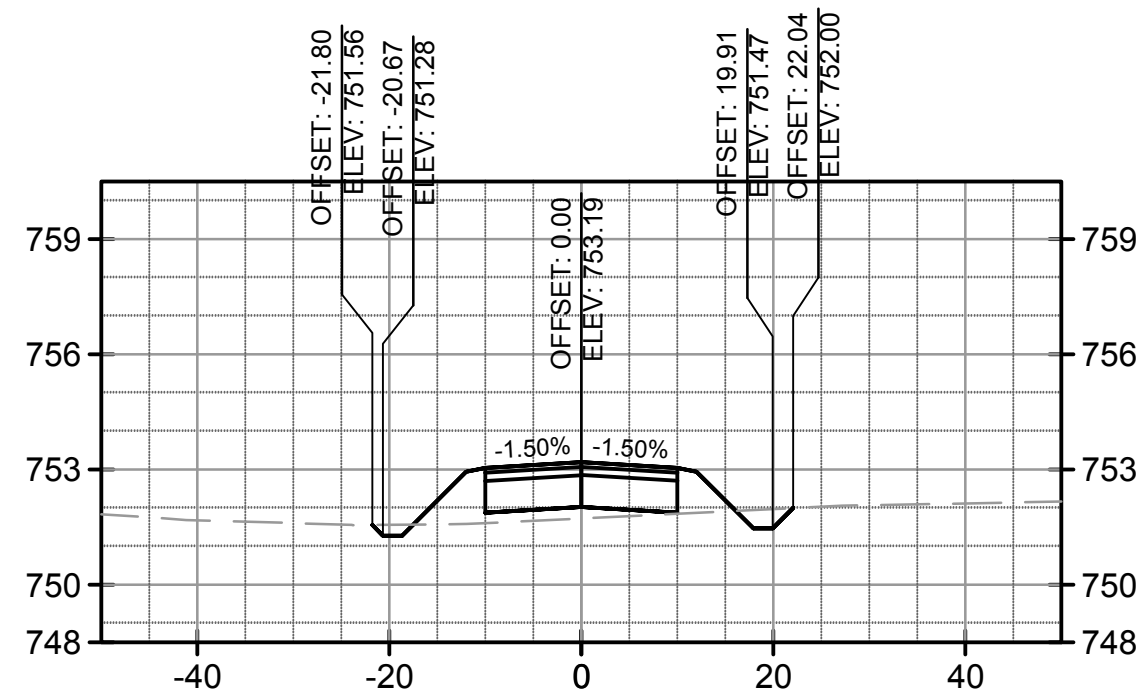
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CUT	4.47	10.61	28.03
FILL	44.23	86.20	302.08



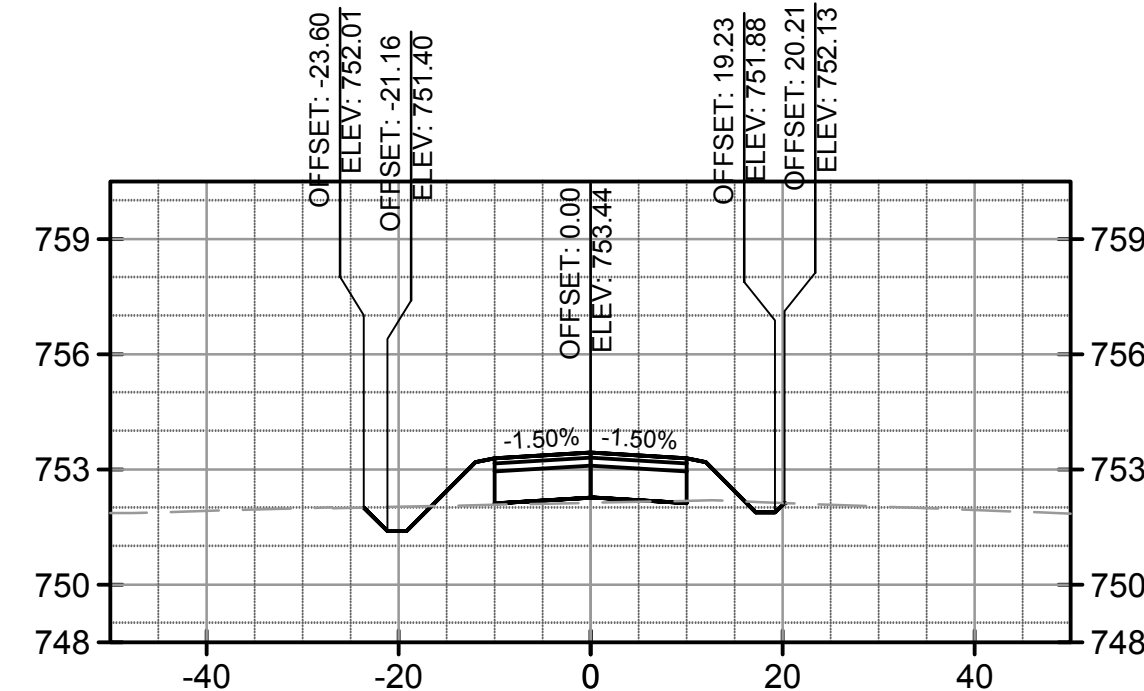
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FILL	38.54	76.85	378.94



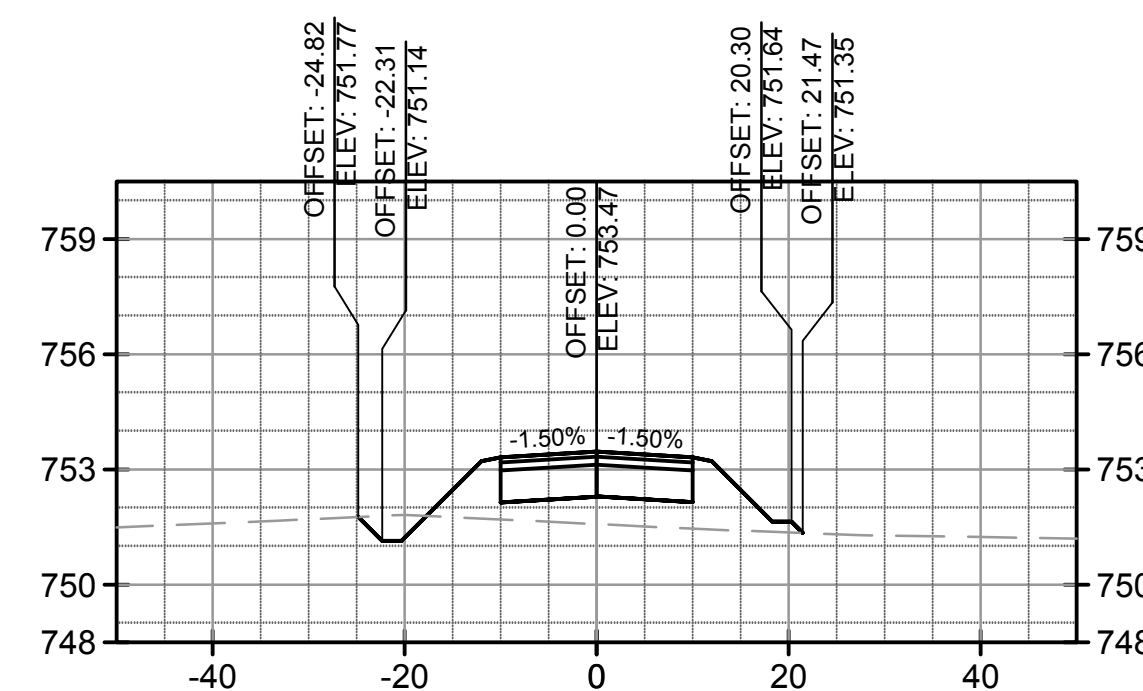
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Material Name	Area	Volume	Cumulative Volume
CUT	1.35	3.94	38.80
FILL	34.50	67.86	446.79



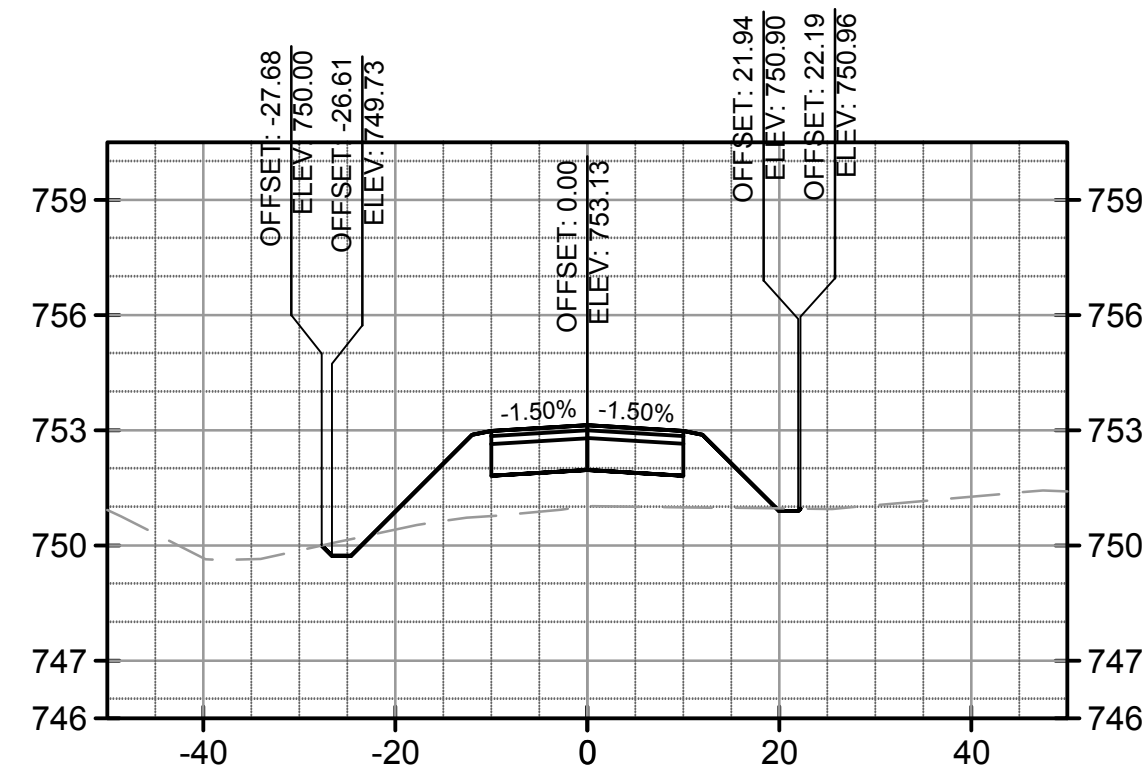
Material(s) at Station 13+50.00

Material Name	Area	Volume	Cumulative Volume
CUT	1.98	3.12	41.91
FILL	28.92	58.85	505.64



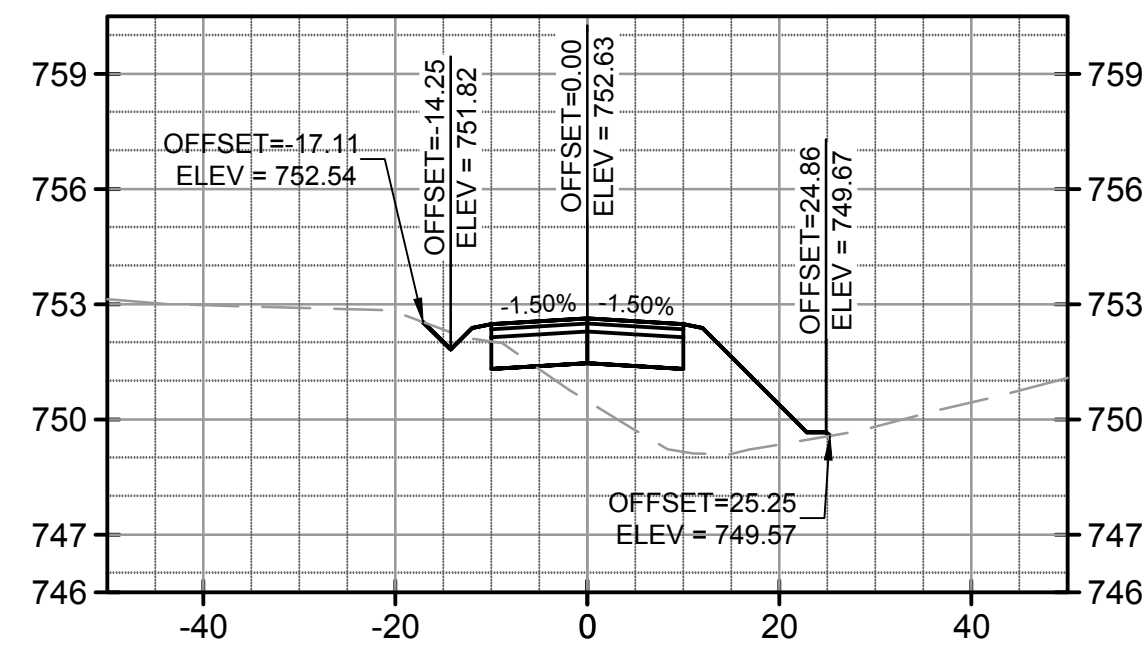
Material(s) at Station 14+00.00

Material Name	Area	Volume	Cumulative Volume
CUT	1.95	3.78	45.69
FILL	51.49	74.33	579.98



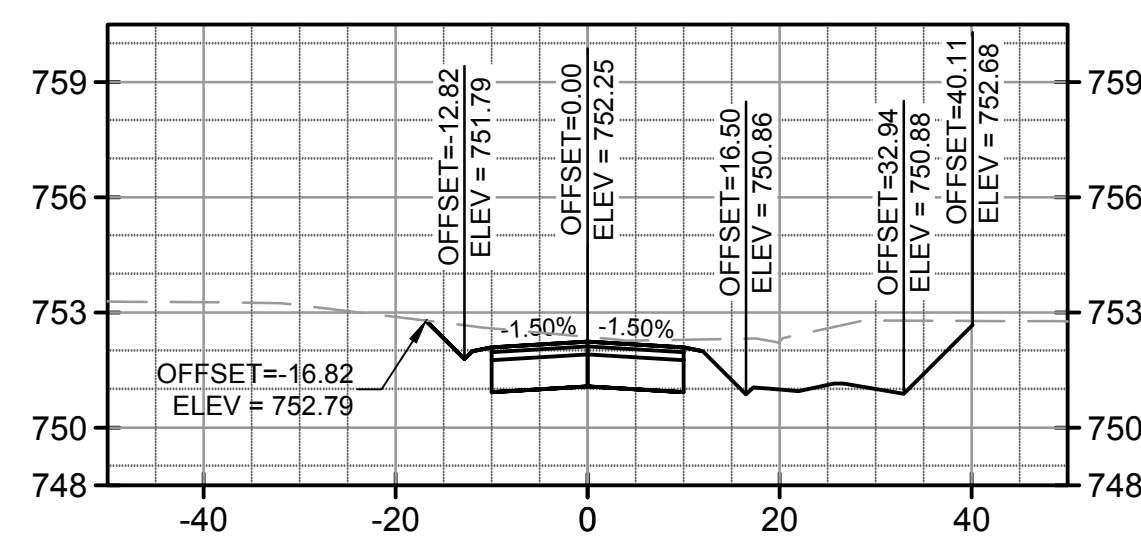
Material(s) at Station 14+50.00

Material Name	Area	Volume	Cumulative Volume
CUT	0.65	2.52	48.21
FILL	68.59	111.24	691.22



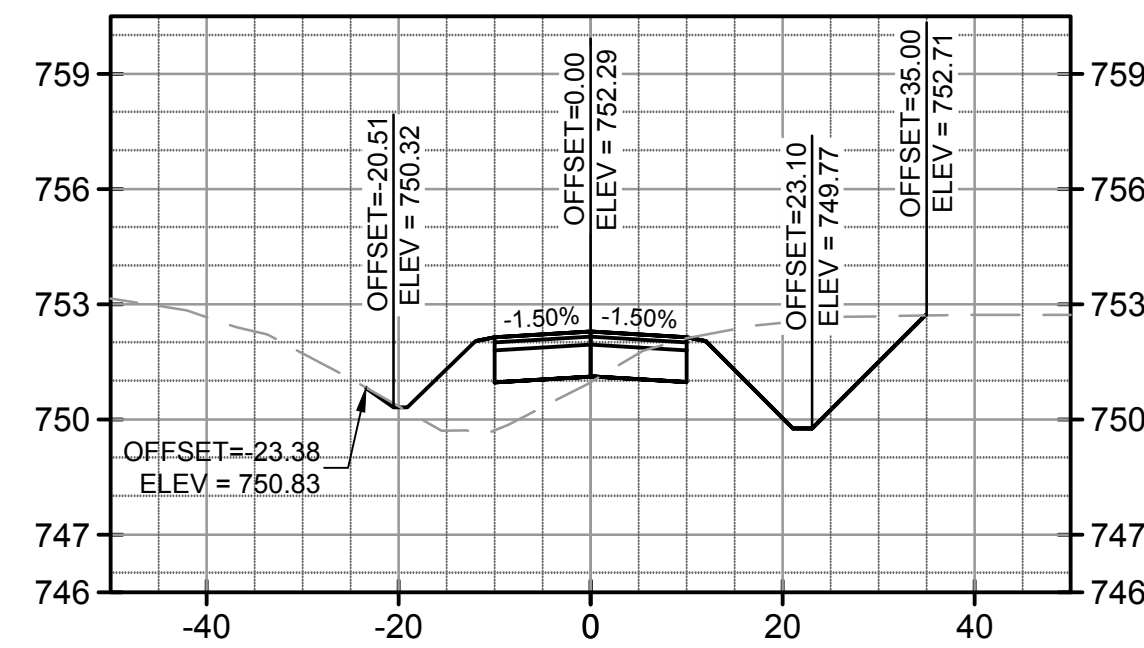
Material(s) at Station 15+00.00

Material Name	Area	Volume	Cumulative Volume
CUT	0.65	1.25	49.46
FILL	65.02	122.85	814.07



Material(s) at Station 15+50.00

Material Name	Area	Volume	Cumulative Volume
CUT	51.85	49.57	99.02
FILL	1.45	62.27	876.34



Material(s) at Station 16+00.00

Material Name	Area	Volume	Cumulative Volume
CUT	34.54	82.85	181.87
FILL	35.88	33.96	910.30

no.	date	by	ckd	description
3/3/17	JY	BQ		100% SUBMITTAL



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J. YAHYA	B. QUINLAN



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**NORTH END PERIMETER ROADWAY**

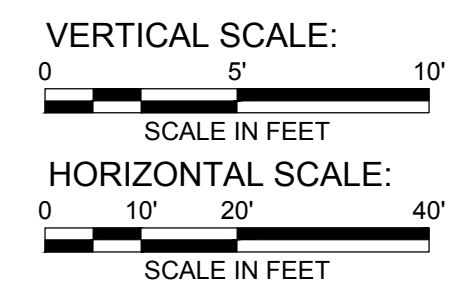
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IL proj:	contract
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BMcD:	DU082
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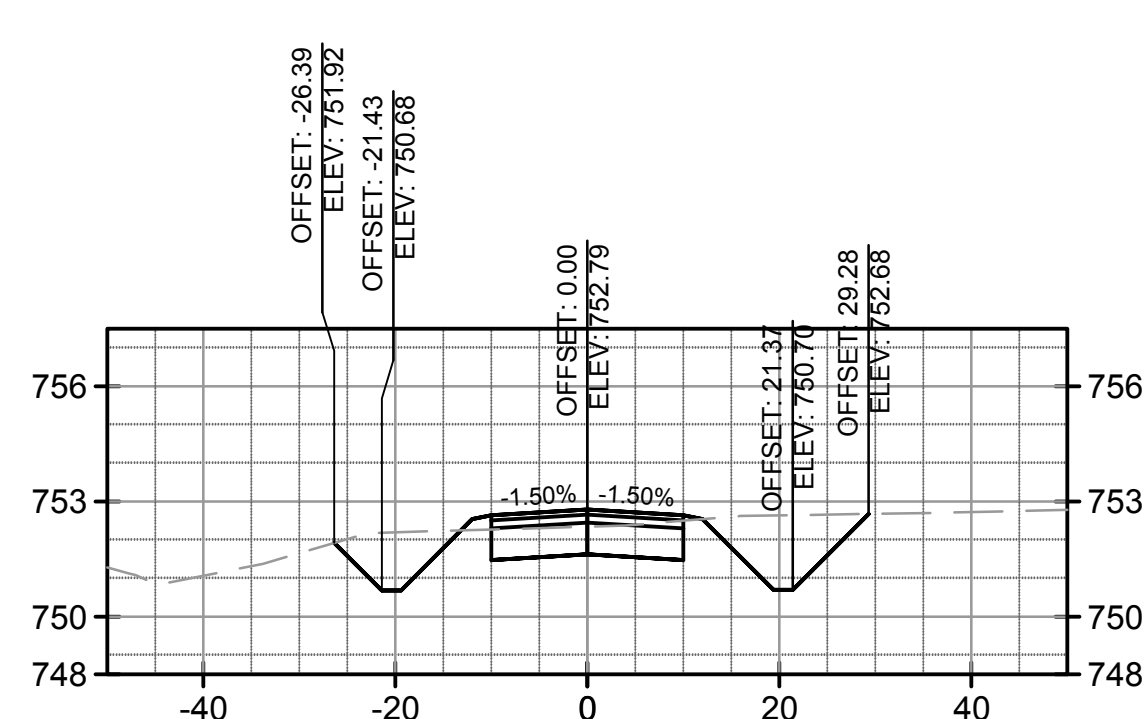
drawing **X-101** rev.

sheet	of	sheets
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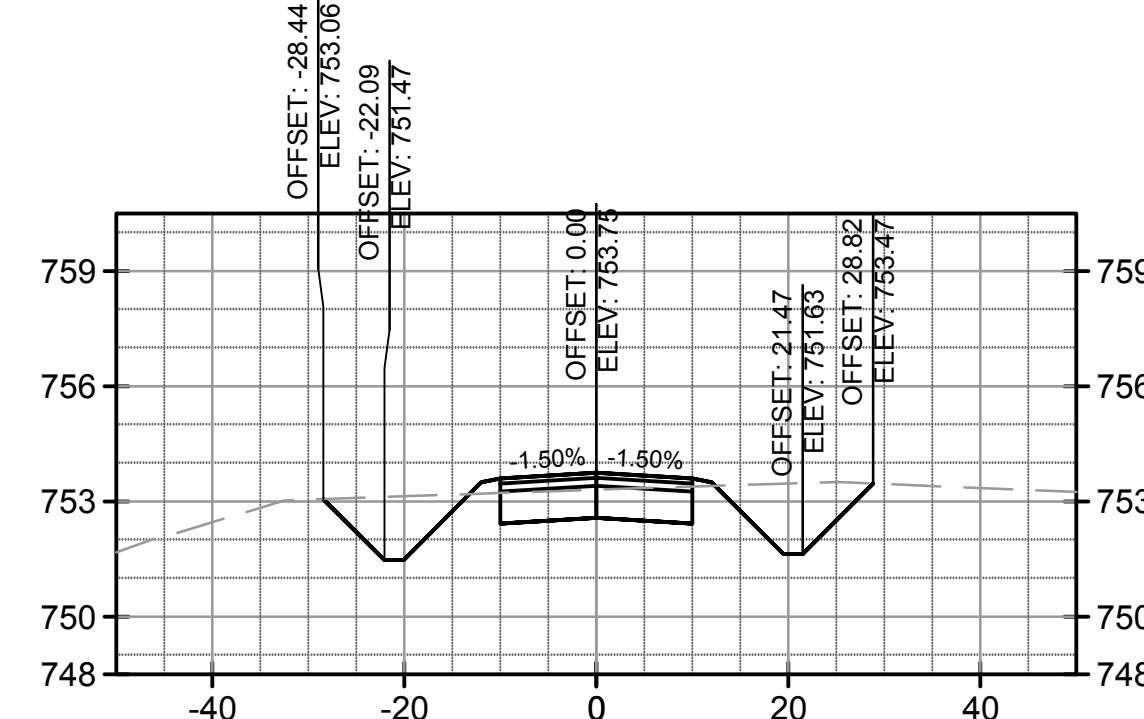


no.	date	by	ckd	description
3/3/17	JY	BQ		100% SUBMITTAL



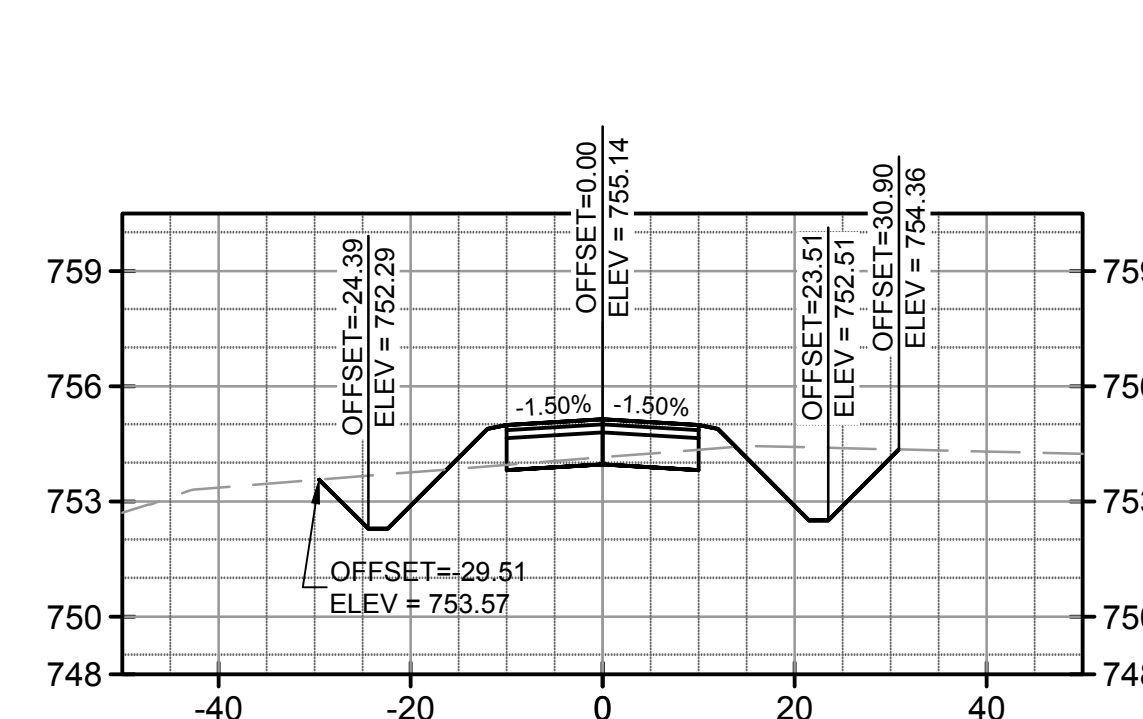
Material(s) at Station 16+50.00

Material Name	Area	Volume	Cumulative Volume
CUT	31.72	63.02	244.89
FILL	5.42	37.59	947.89



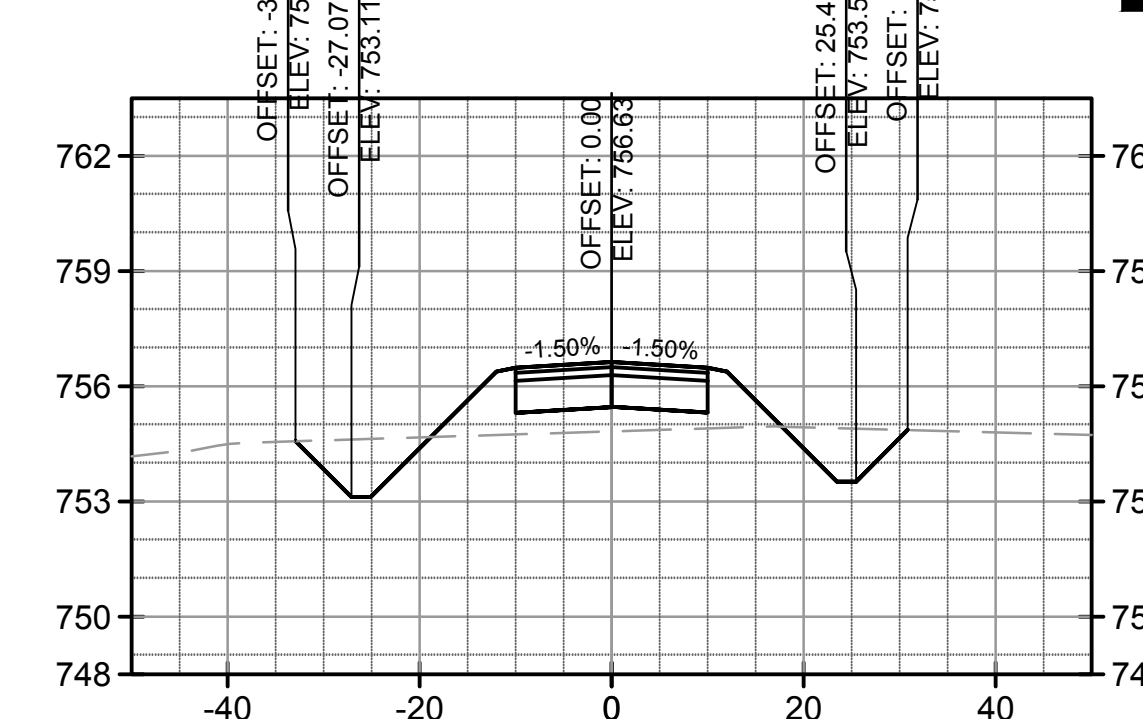
Material(s) at Station 17+00.00

Material Name	Area	Volume	Cumulative Volume
CUT	32.32	59.67	304.56
FILL	5.90	10.44	958.33



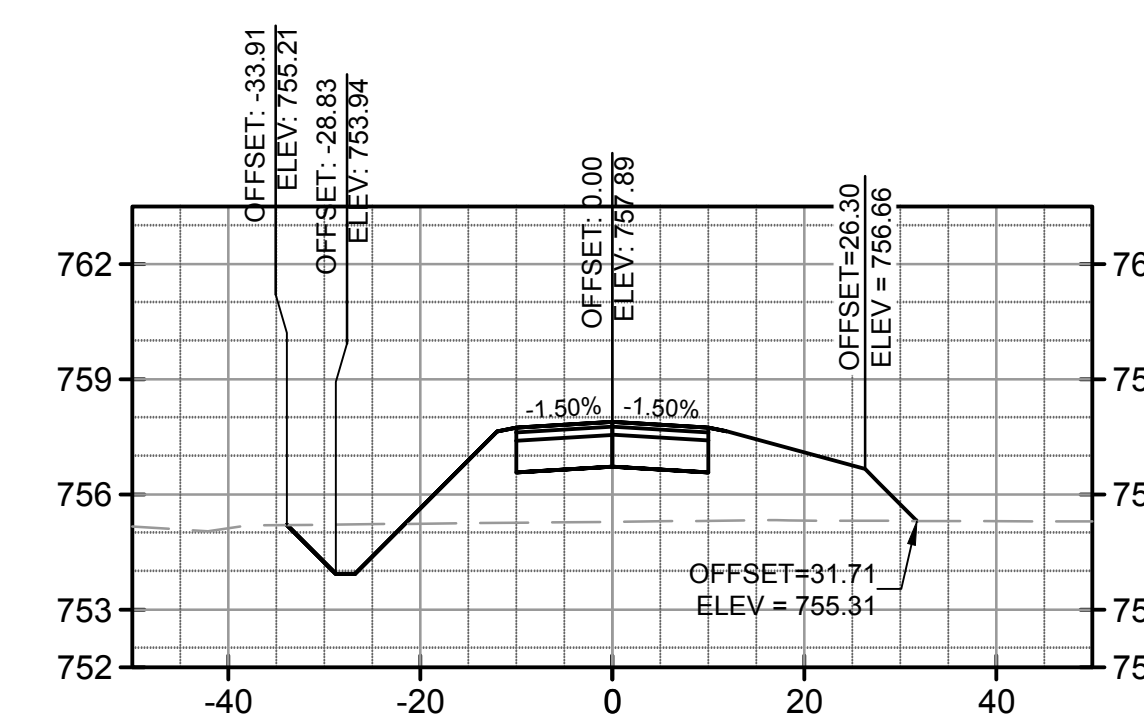
Material(s) at Station 17+50.00

Material Name	Area	Volume	Cumulative Volume
CUT	23.95	52.18	356.74
FILL	17.52	21.65	979.98



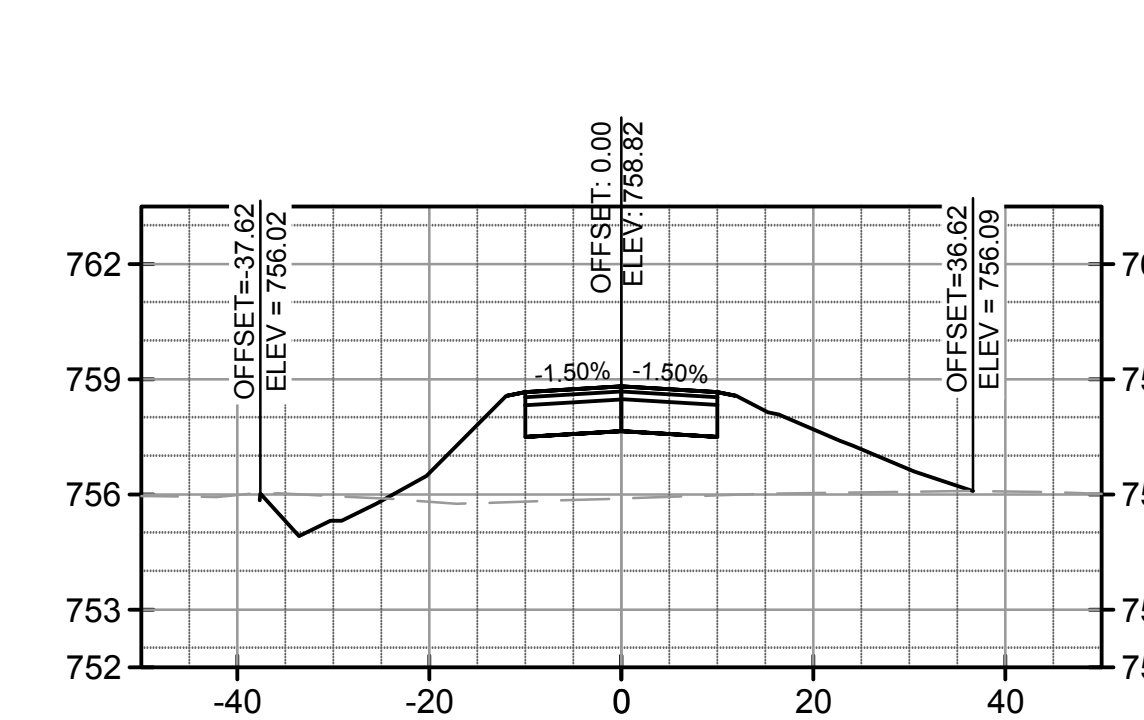
Material(s) at Station 18+00.00

Material Name	Area	Volume	Cumulative Volume
CUT	18.29	39.11	395.85
FILL	47.74	60.43	1040.41



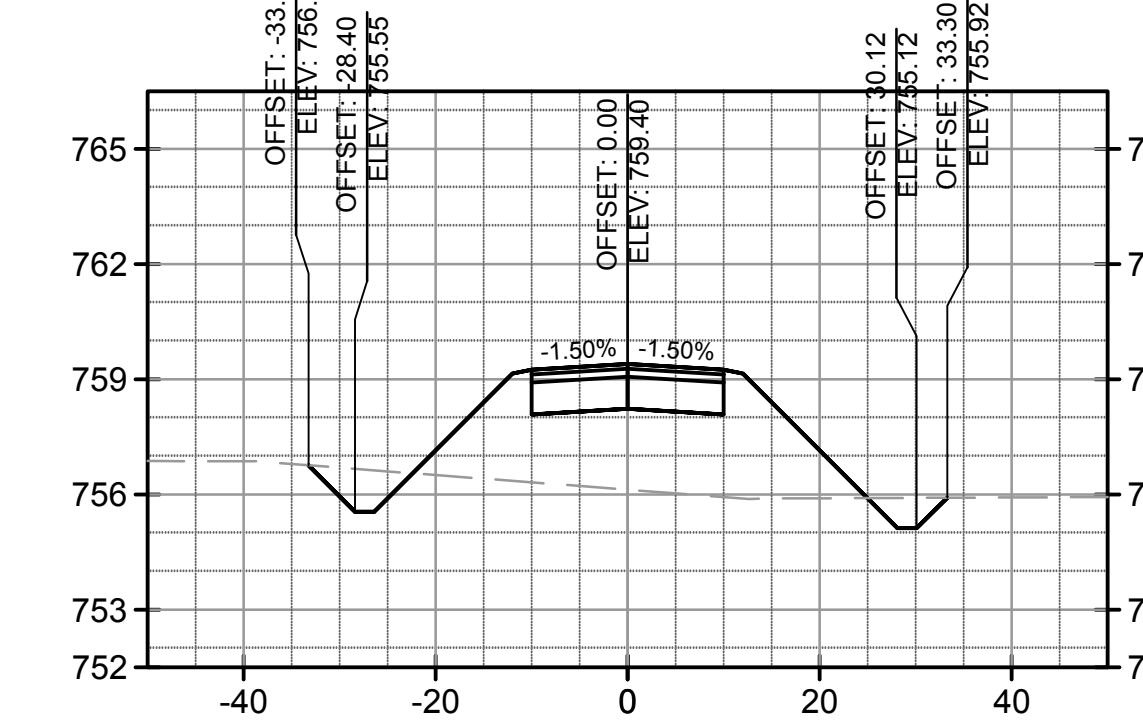
Material(s) at Station 18+50.00

Material Name	Area	Volume	Cumulative Volume
CUT	7.20	23.60	419.45
FILL	105.77	142.14	1182.55



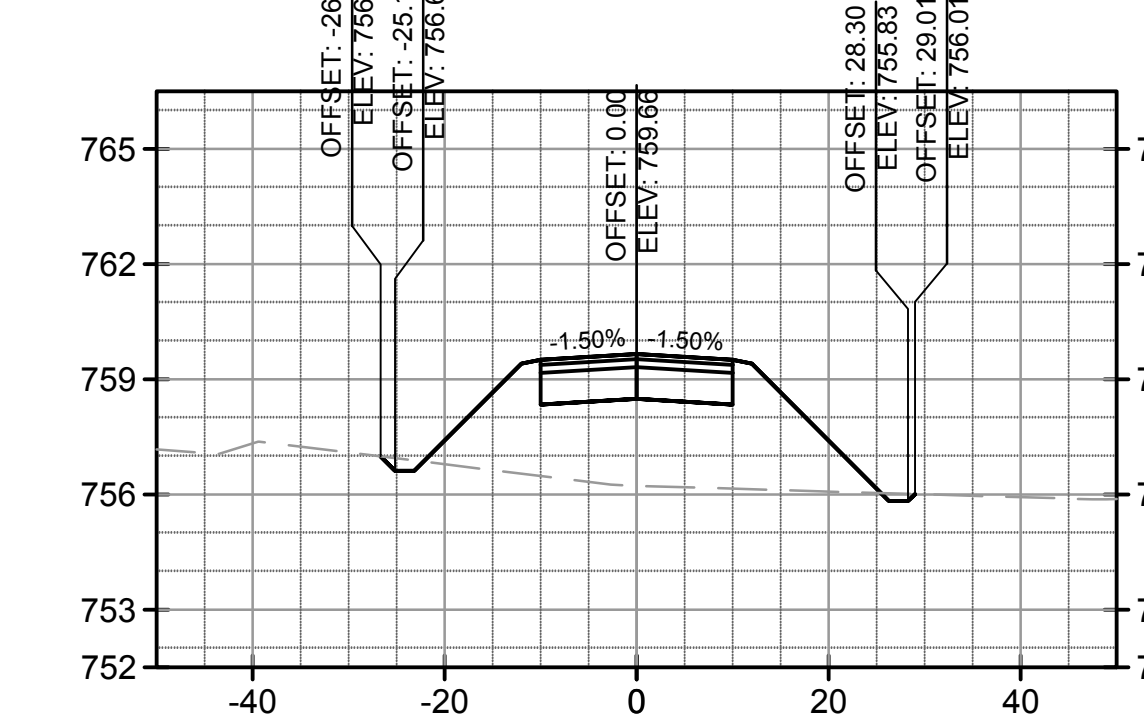
Material(s) at Station 19+00.00

Material Name	Area	Volume	Cumulative Volume
CUT	5.23	11.51	430.96
FILL	122.04	210.94	1393.49



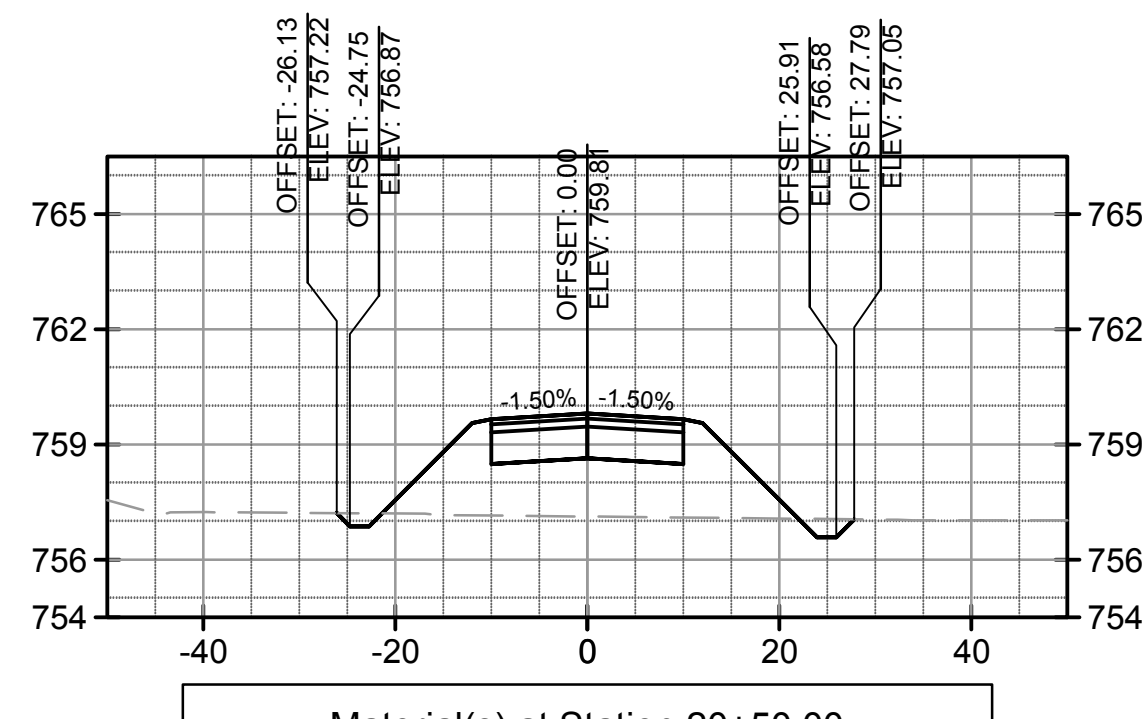
Material(s) at Station 19+50.00

Material Name	Area	Volume	Cumulative Volume
CUT	8.09	12.33	443.29
FILL	114.34	218.87	1612.37



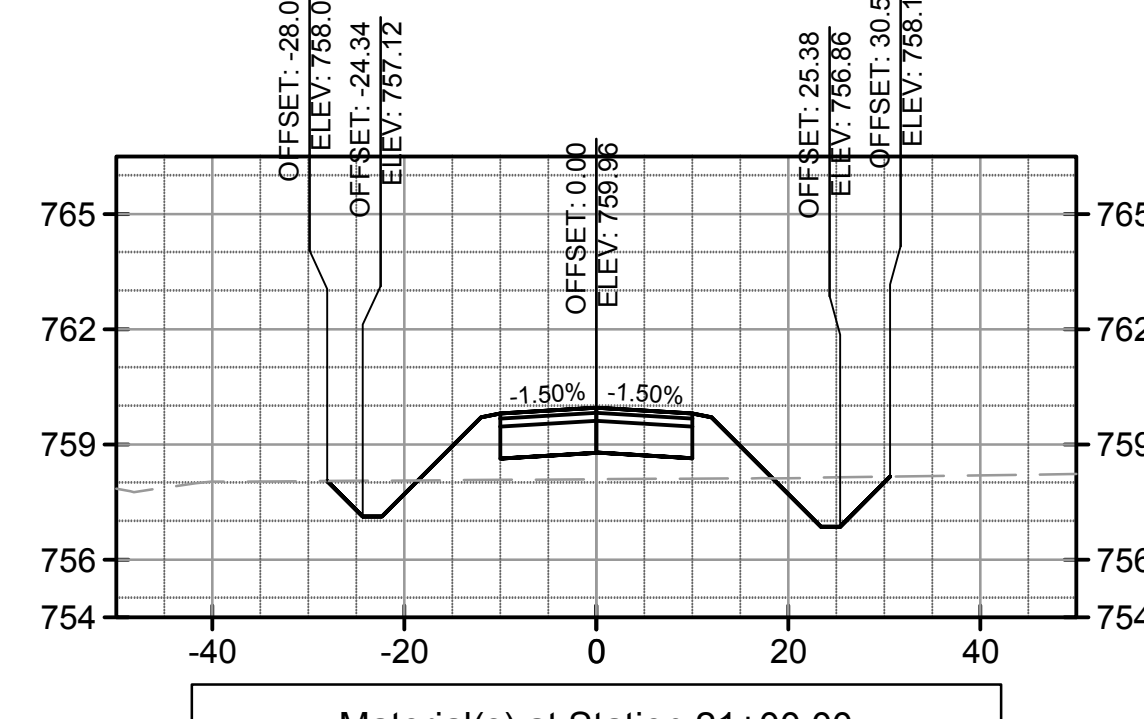
Material(s) at Station 20+00.00

Material Name	Area	Volume	Cumulative Volume
CUT	0.37	7.83	451.12
FILL	118.52	215.62	1827.98



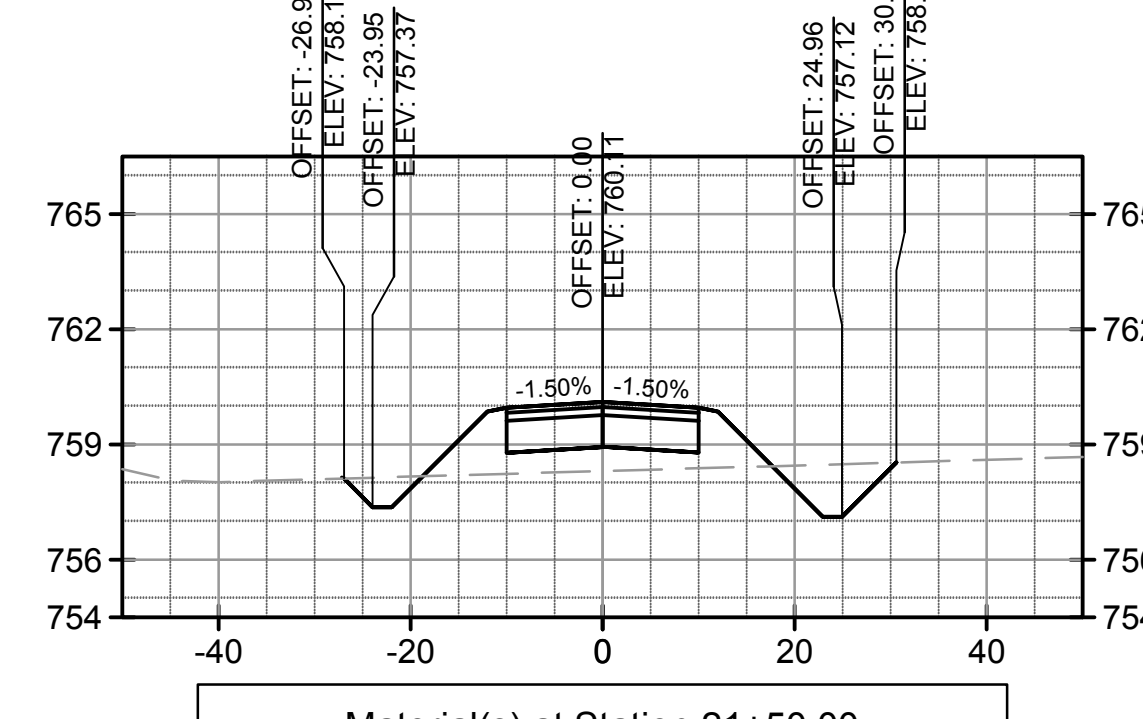
Material(s) at Station 20+50.00

Material Name	Area	Volume	Cumulative Volume
CUT	1.46	1.69	452.82
FILL	86.17	189.54	2017.52



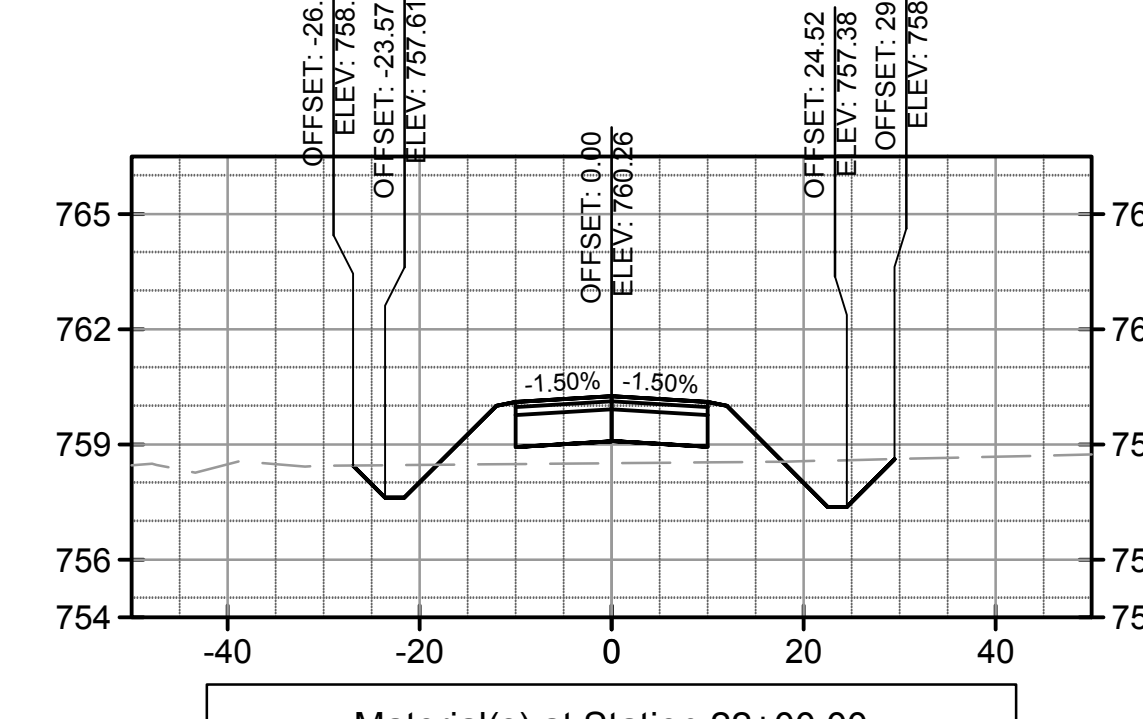
Material(s) at Station 21+00.00

Material Name	Area	Volume	Cumulative Volume
CUT	11.01	11.54	464.36
FILL	49.89	125.98	2143.50



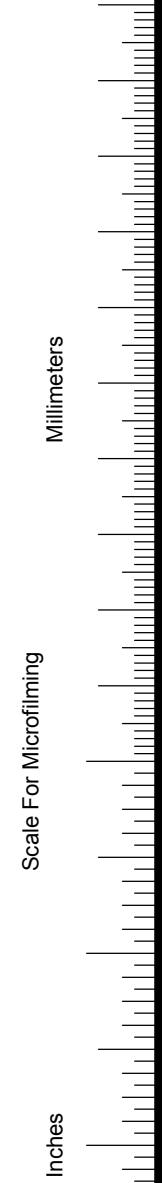
Material(s) at Station 21+50.00

Material Name	Area	Volume	Cumulative Volume
CUT	10.76	20.34	484.70
FILL	47.46	90.10	2233.60



Material(s) at Station 22+00.00

Material Name	Area	Volume	Cumulative Volume
CUT	9.58	19.22	503.92
FILL	45.14	85.65	2319.25



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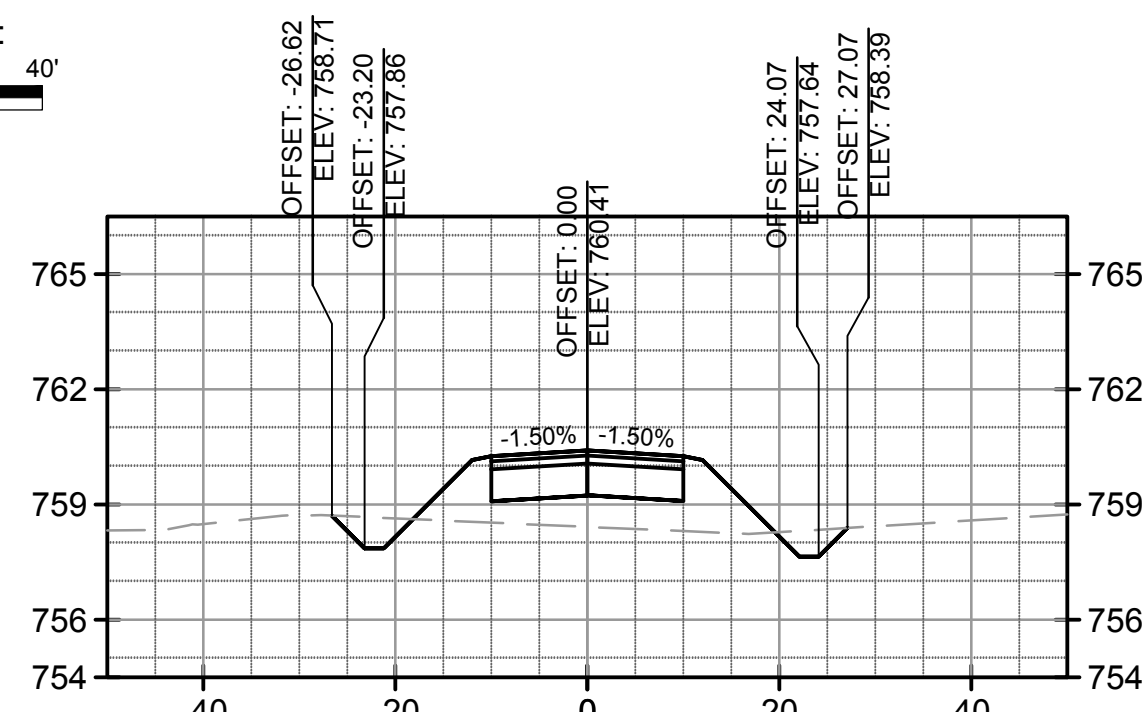
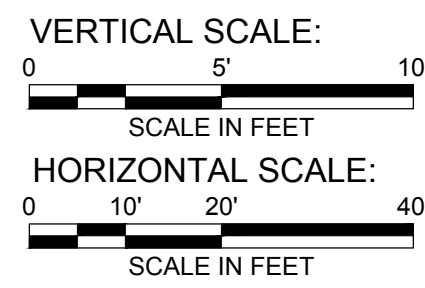
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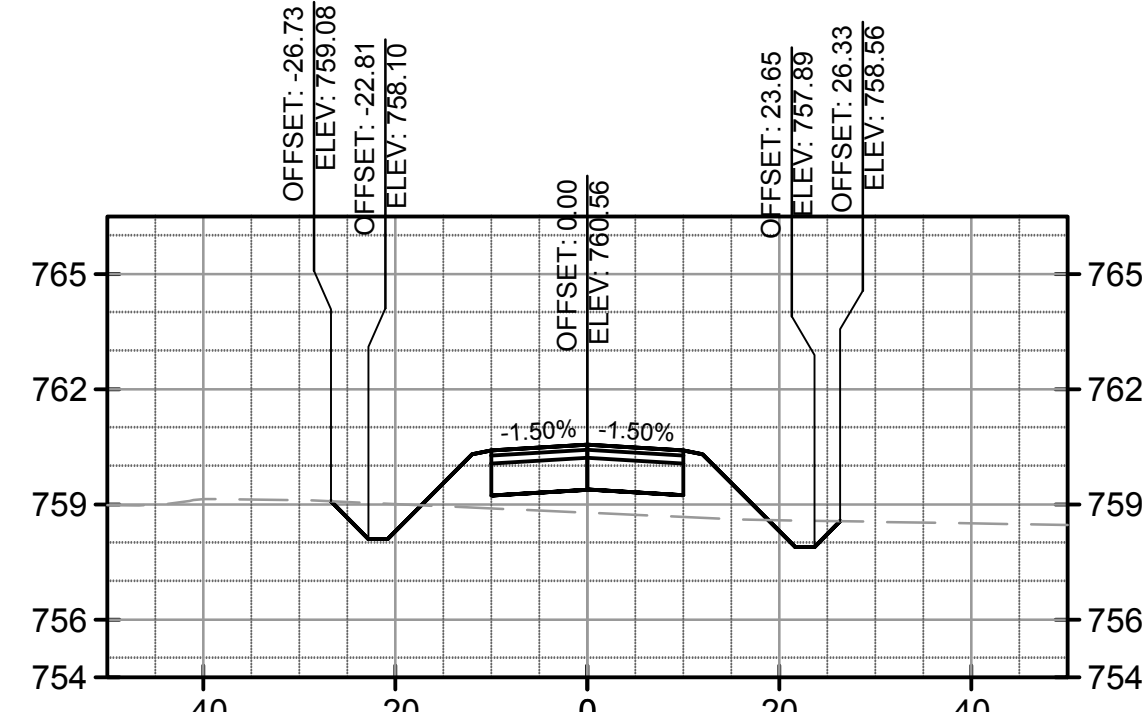
**NORTH END PERIMETER ROADWAY**  
CROSS SECTIONS

IL proj: DPA-4488	contract
BMcD: 95738	DU082
drawing	rev.
<b>X-102</b>	
sheet 29	of 32 sheets
file	



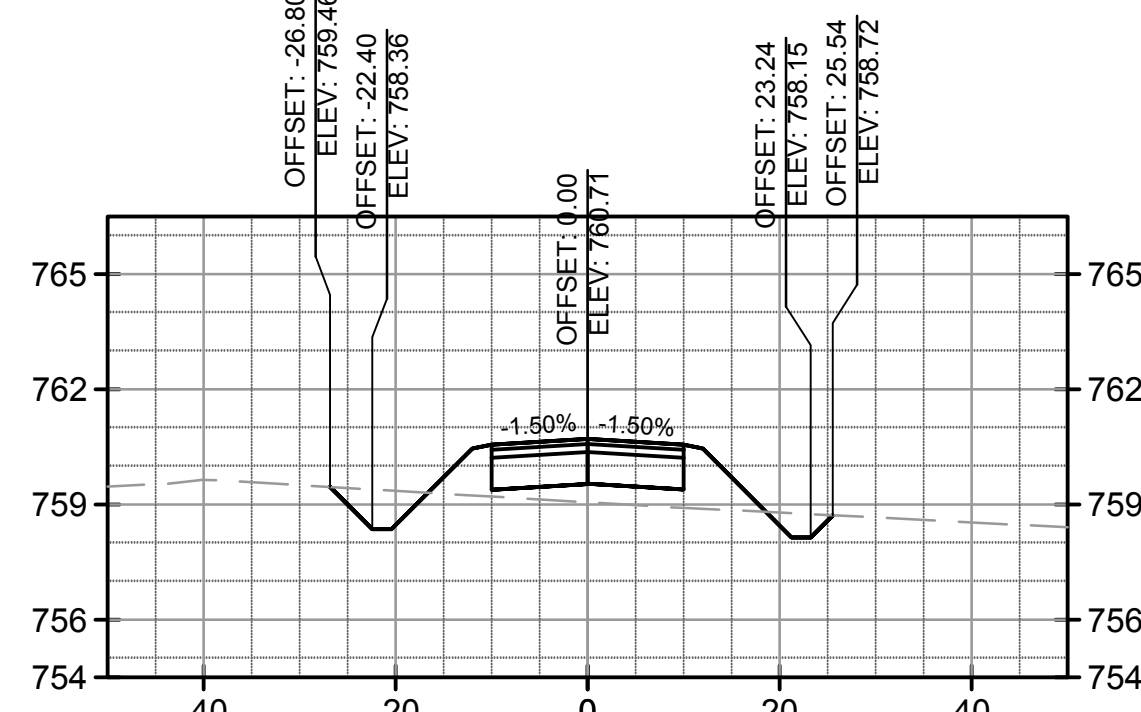
Material(s) at Station 22+50.00

Material Name	Area	Volume	Cumulative Volume
CUT	5.02	13.63	517.55
FILL	55.11	92.92	2412.17



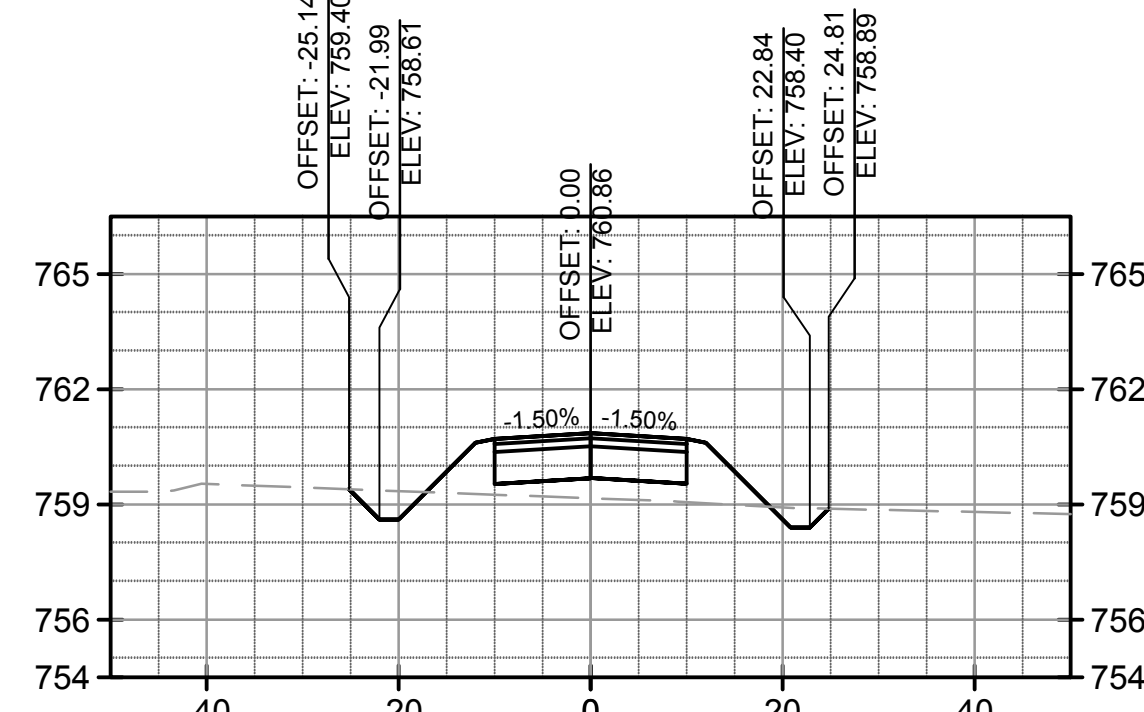
Material(s) at Station 23+00.00

Material Name	Area	Volume	Cumulative Volume
CUT	5.89	10.05	527.60
FILL	46.29	93.99	2506.16



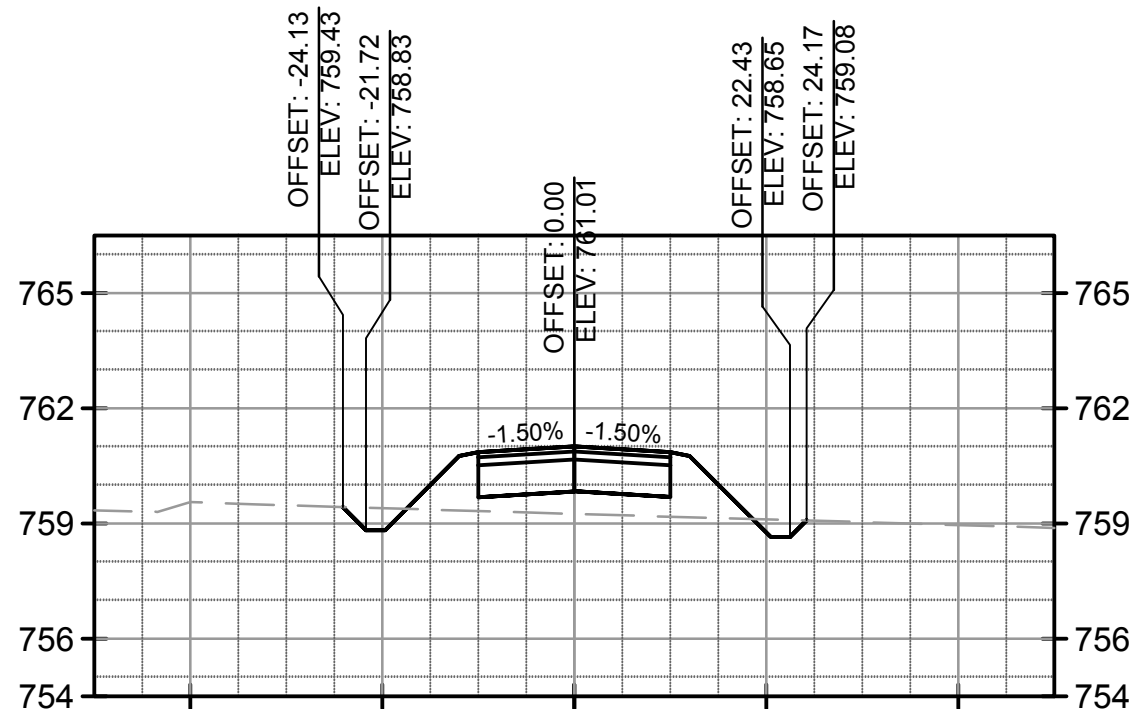
Material(s) at Station 23+50.00

Material Name	Area	Volume	Cumulative Volume
CUT	6.30	11.28	538.89
FILL	41.45	81.24	2587.40



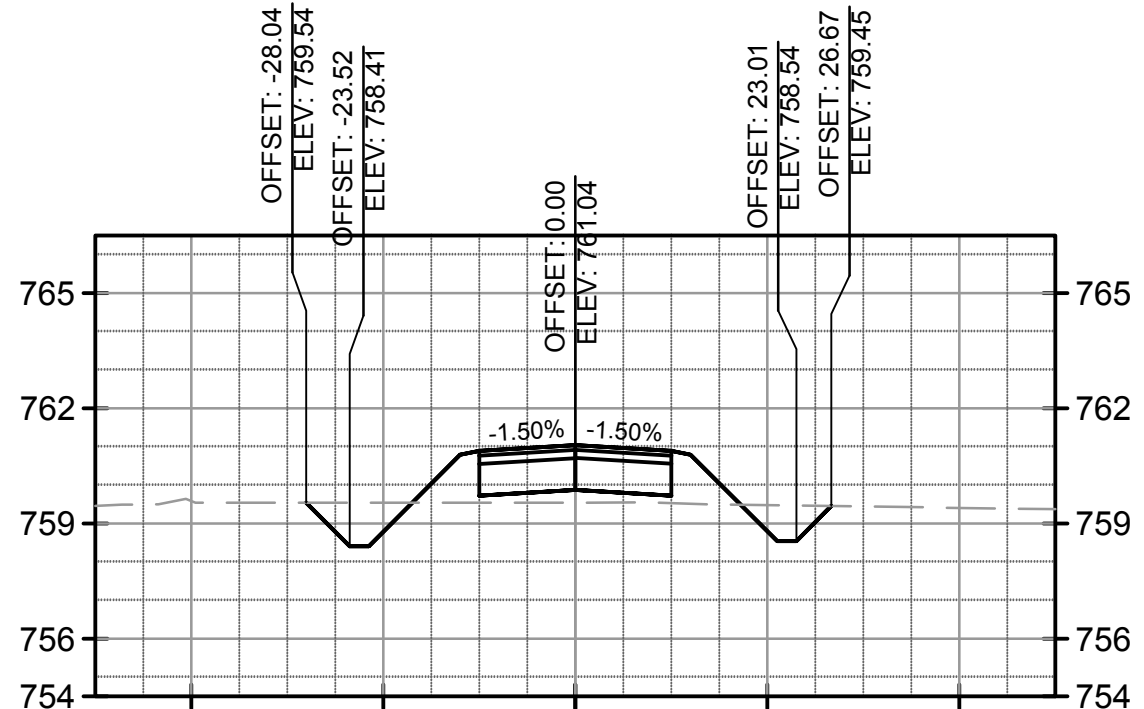
Material(s) at Station 24+00.00

Material Name	Area	Volume	Cumulative Volume
CUT	3.66	9.22	548.11
FILL	43.57	78.73	2666.12



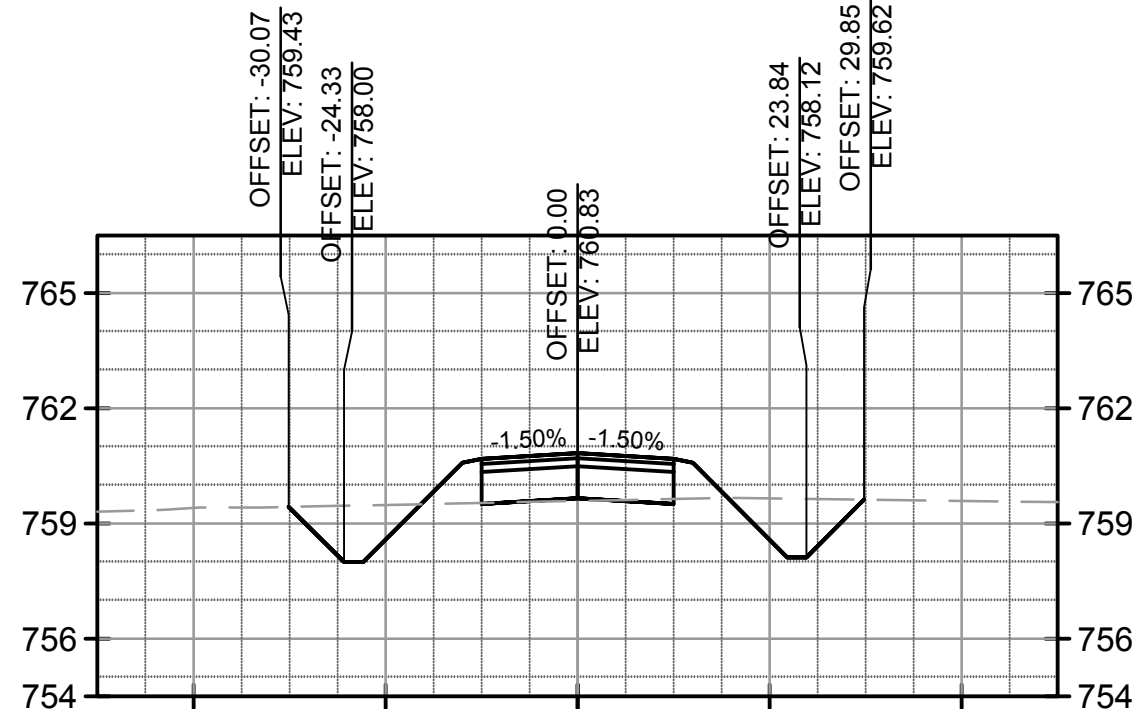
Material(s) at Station 24+50.00

Material Name	Area	Volume	Cumulative Volume
CUT	2.37	5.59	553.70
FILL	46.10	83.03	2749.15



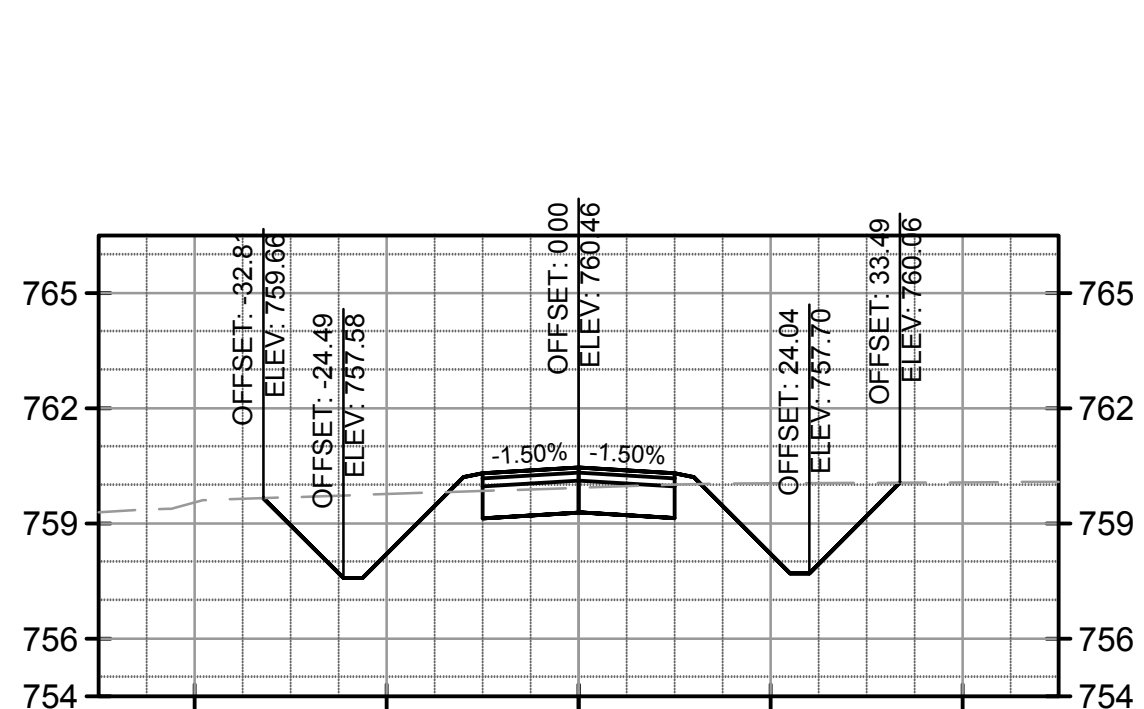
Material(s) at Station 25+00.00

Material Name	Area	Volume	Cumulative Volume
CUT	9.43	10.93	564.63
FILL	35.91	75.94	2825.09



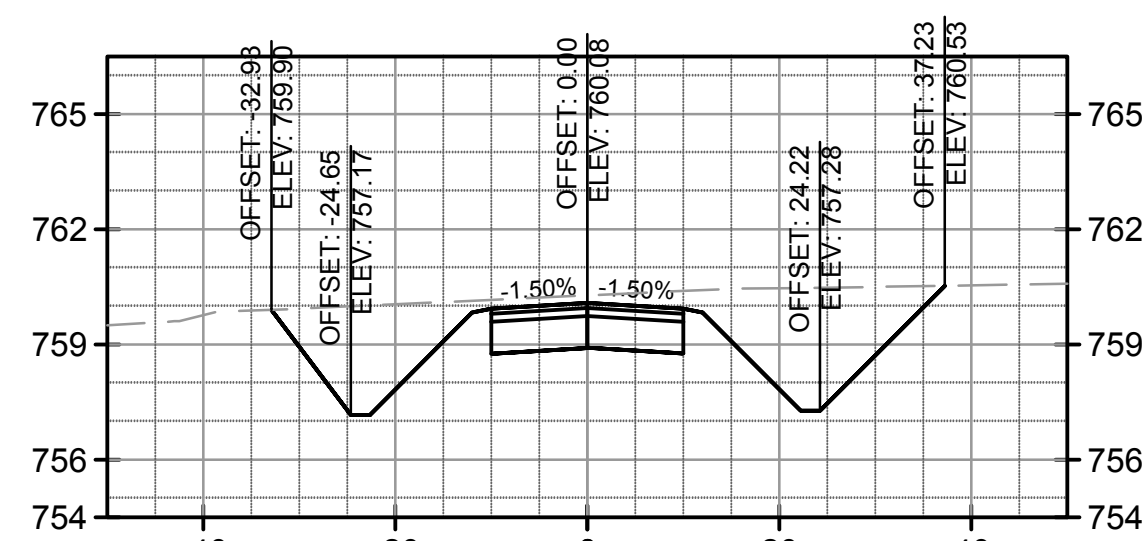
Material(s) at Station 25+50.00

Material Name	Area	Volume	Cumulative Volume
CUT	19.43	26.72	591.35
FILL	26.11	57.43	2882.52



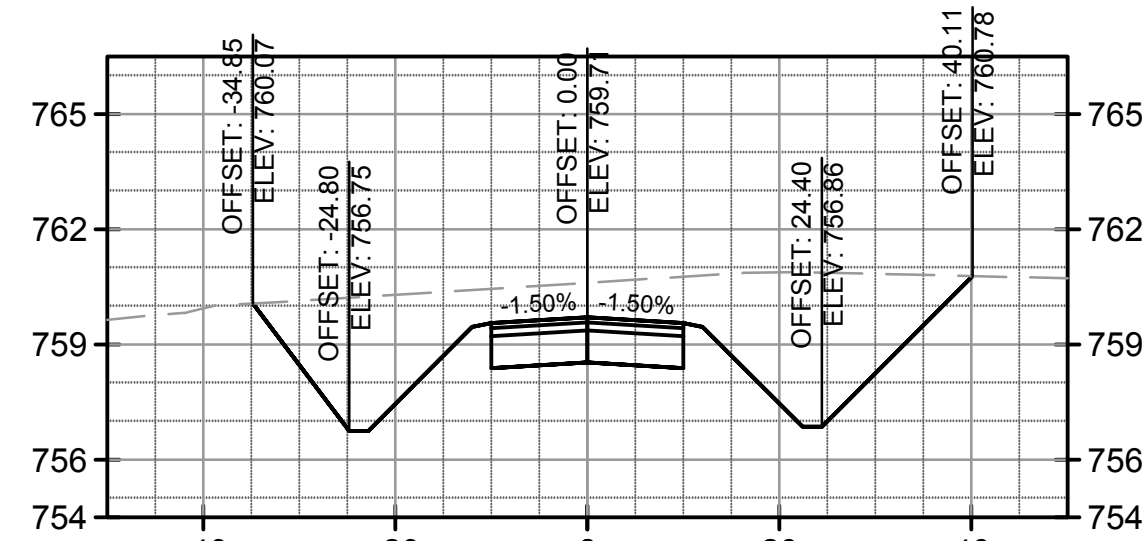
Material(s) at Station 26+00.00

Material Name	Area	Volume	Cumulative Volume
CUT	47.47	61.94	653.30
FILL	6.81	30.48	2913.00



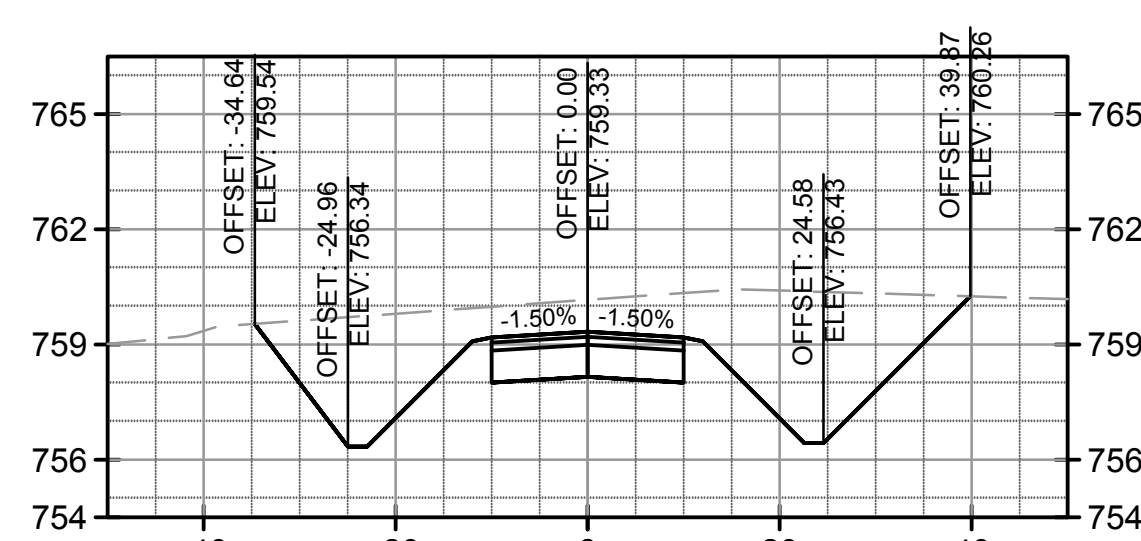
Material(s) at Station 26+50.00

Material Name	Area	Volume	Cumulative Volume
CUT	92.81	129.89	783.19
FILL	1.42	7.62	2920.62



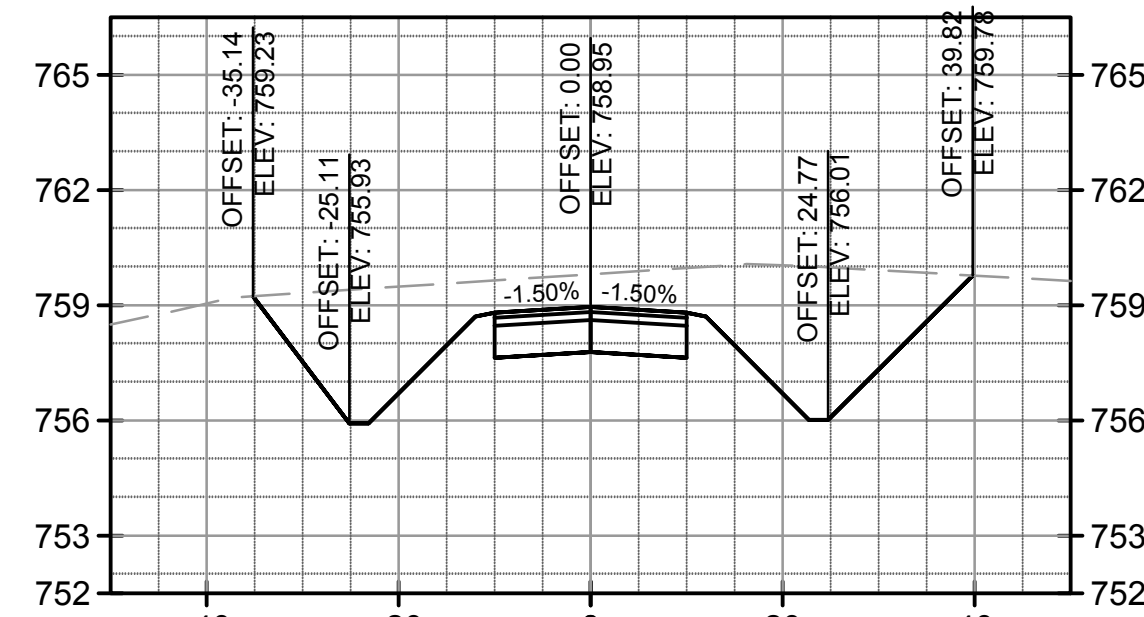
Material(s) at Station 27+00.00

Material Name	Area	Volume	Cumulative Volume
CUT	144.15	219.41	1002.59
FILL	0.85	2.11	2922.72



Material(s) at Station 27+50.00

Material Name	Area	Volume	Cumulative Volume
CUT	139.09	262.26	1264.85
FILL	0.84	1.57	2924.30



Material(s) at Station 28+00.00

Material Name	Area	Volume	Cumulative Volume
CUT	142.77	260.98	1525.83
FILL	0.83	1.55	2925.85

no.	date	by	ckd	description
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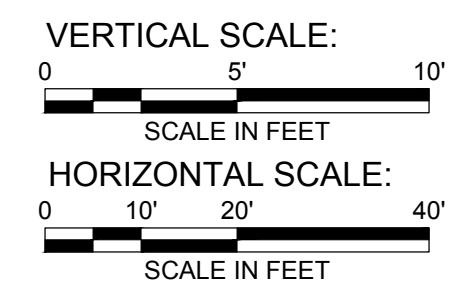
CROSS SECTIONS

IL proj:	contract
DPA-4488	DU082
BMcD:	
95738	

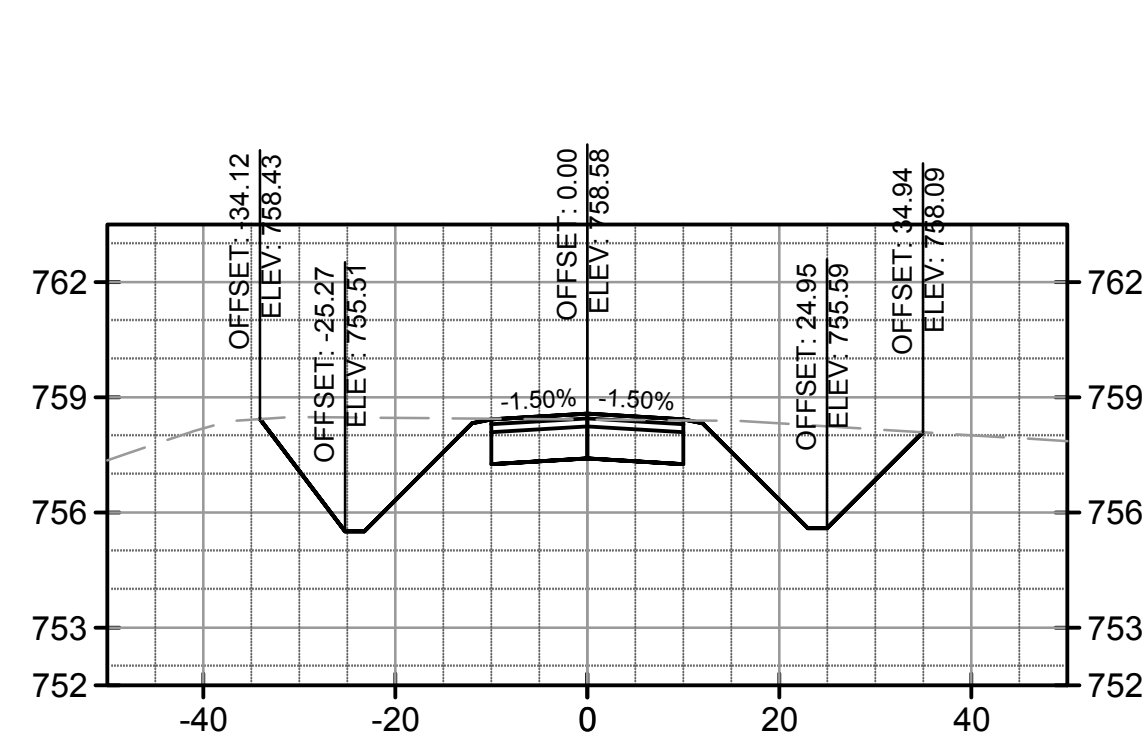
drawing **X-103** rev.

sheet 30 of 32 sheets  
file

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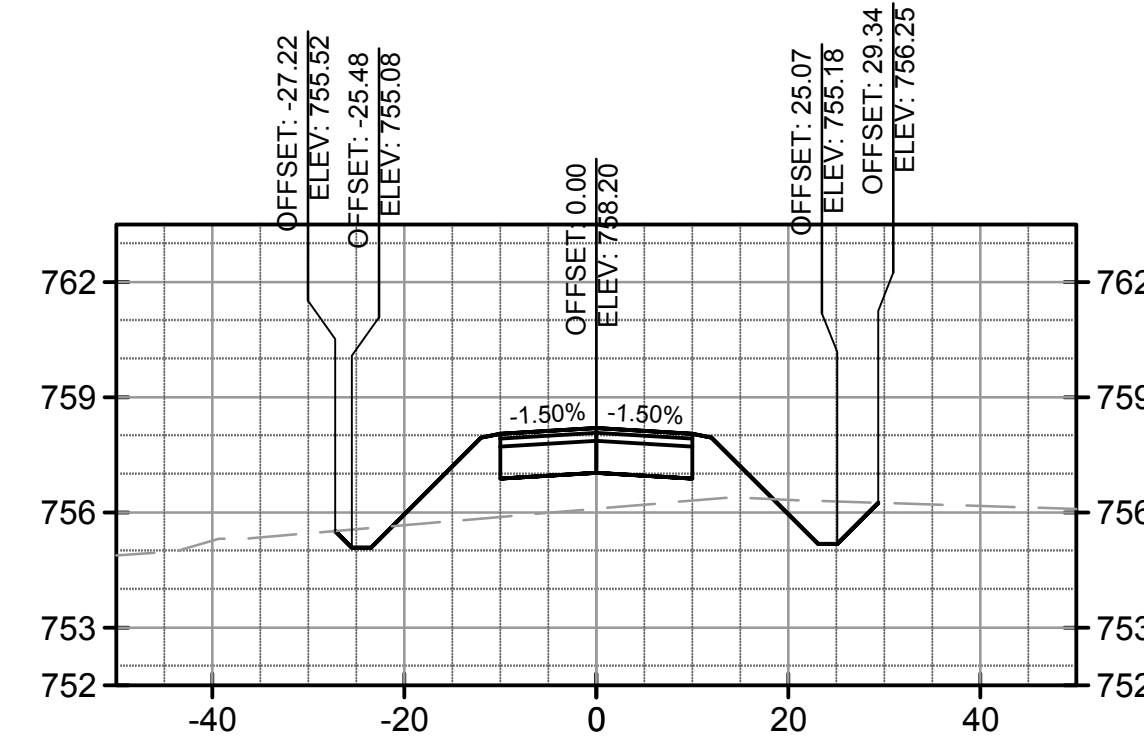


no.	date	by	ckd	description
	3/3/17	JY	BQ	100% SUBMITTAL



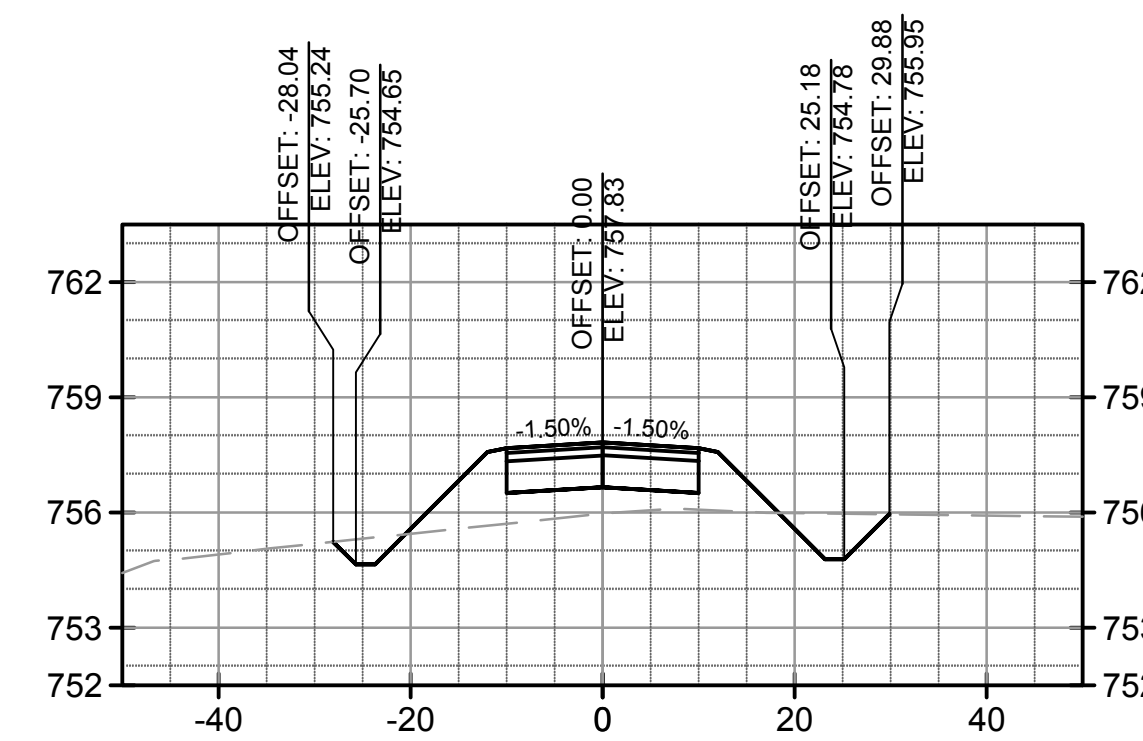
**Material(s) at Station 28+50.00**

Material Name	Area	Volume	Cumulative Volume
CUT	74.48	201.16	1726.99
FILL	3.35	3.87	2929.72



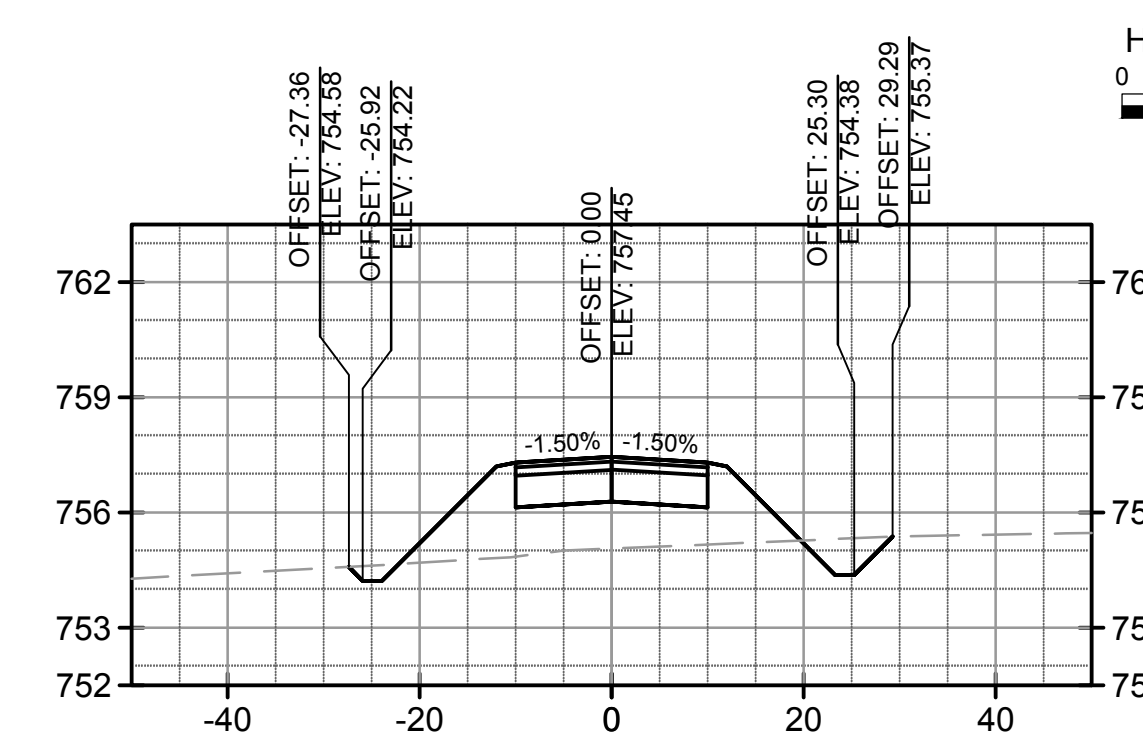
**Material(s) at Station 29+00.00**

Material Name	Area	Volume	Cumulative Volume
CUT	6.49	74.91	1801.90
FILL	61.36	60.12	2989.84



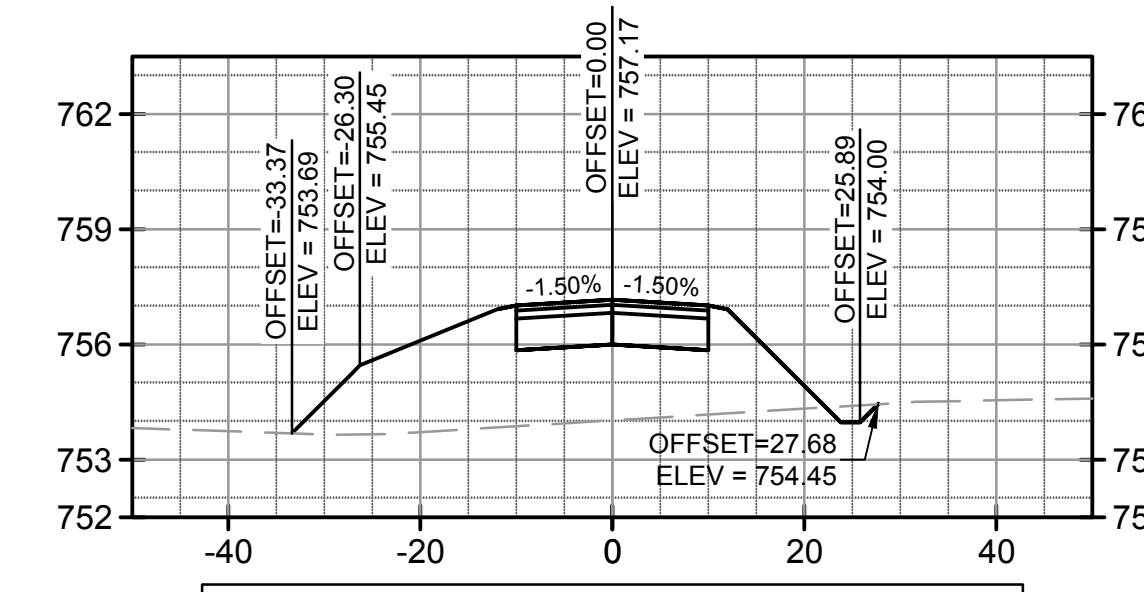
**Material(s) at Station 29+50.00**

Material Name	Area	Volume	Cumulative Volume
CUT	8.26	13.28	1815.18
FILL	54.35	107.56	3097.40



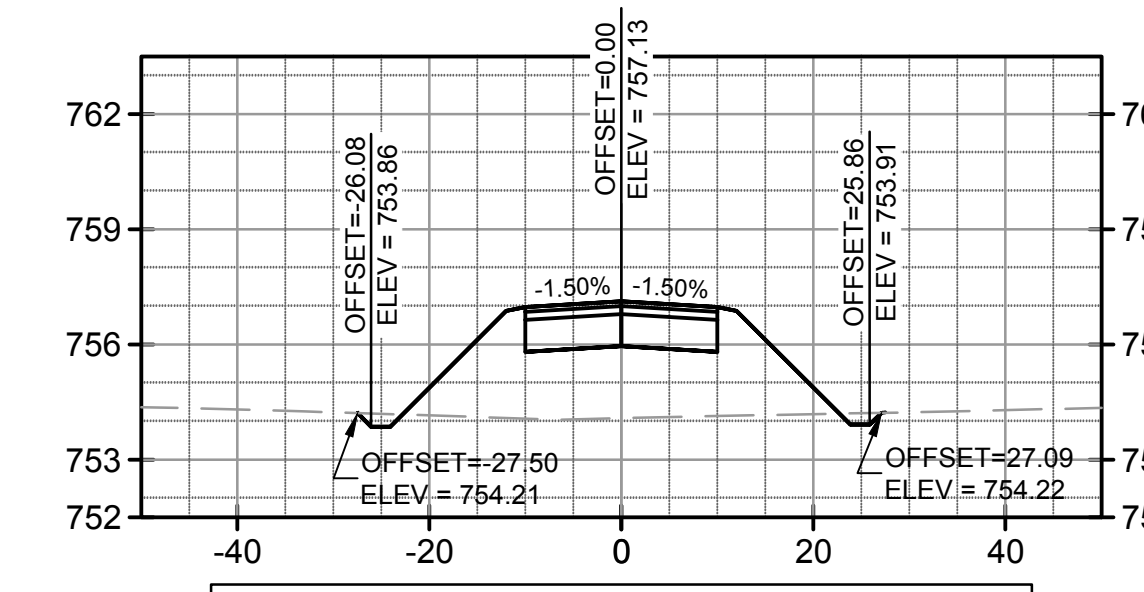
**Material(s) at Station 30+00.00**

Material Name	Area	Volume	Cumulative Volume
CUT	4.62	11.59	1826.78
FILL	75.16	120.33	3217.73



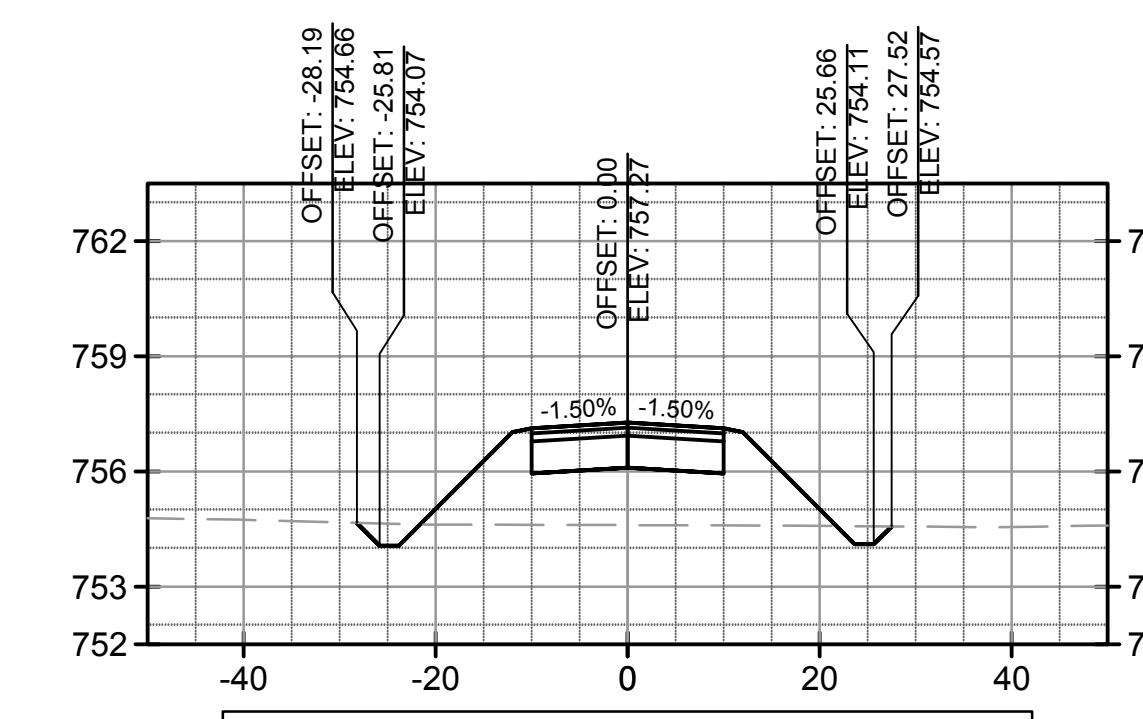
**Material(s) at Station 30+50.00**

Material Name	Area	Volume	Cumulative Volume
CUT	0.80	4.83	1831.61
FILL	133.93	195.24	3412.97



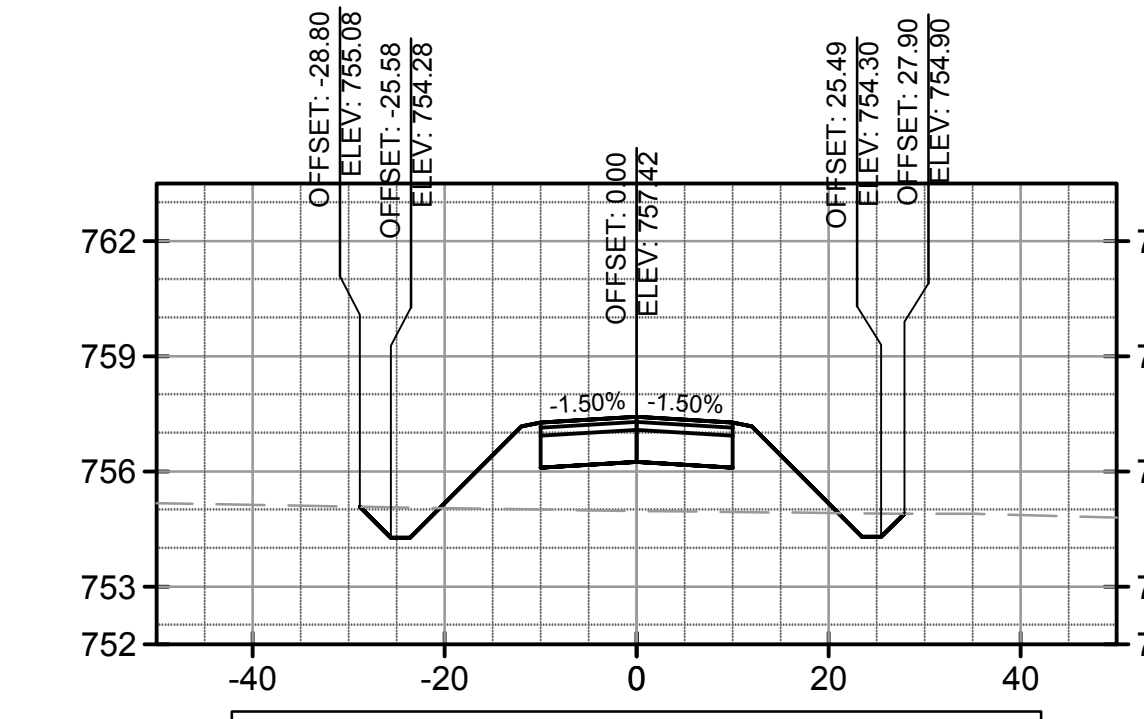
**Material(s) at Station 31+00.00**

Material Name	Area	Volume	Cumulative Volume
CUT	0.76	1.41	1833.02
FILL	102.14	220.02	3632.99



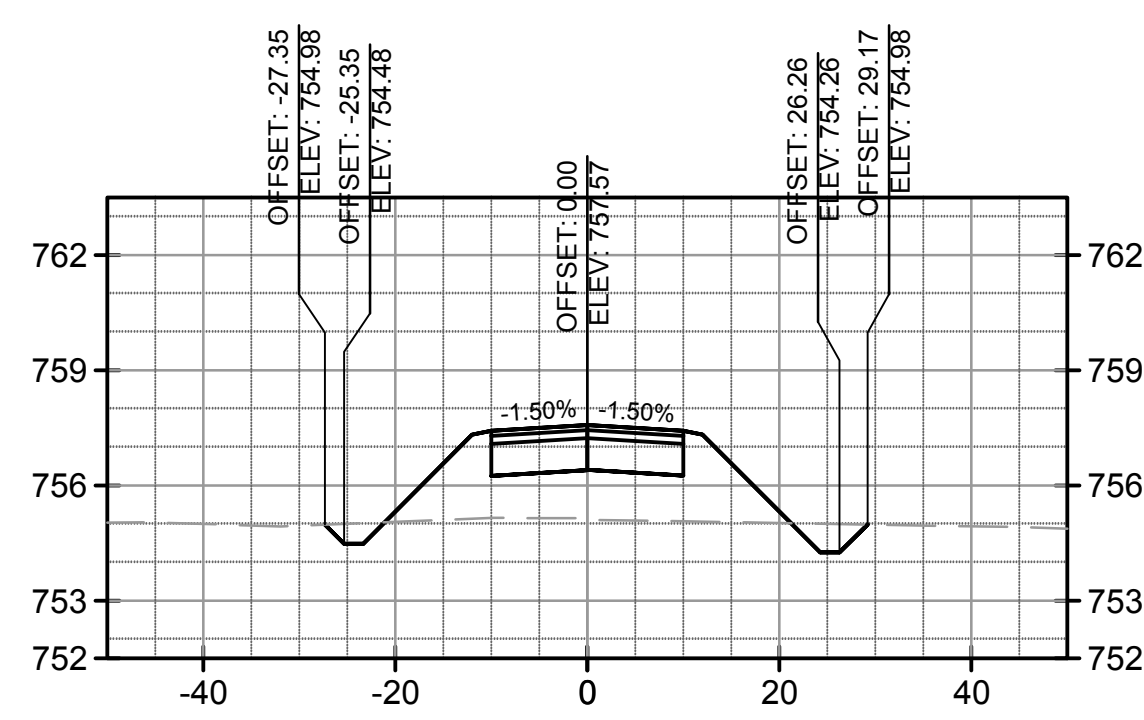
**Material(s) at Station 31+50.00**

Material Name	Area	Volume	Cumulative Volume
CUT	2.41	2.97	1835.98
FILL	85.44	173.70	3806.69



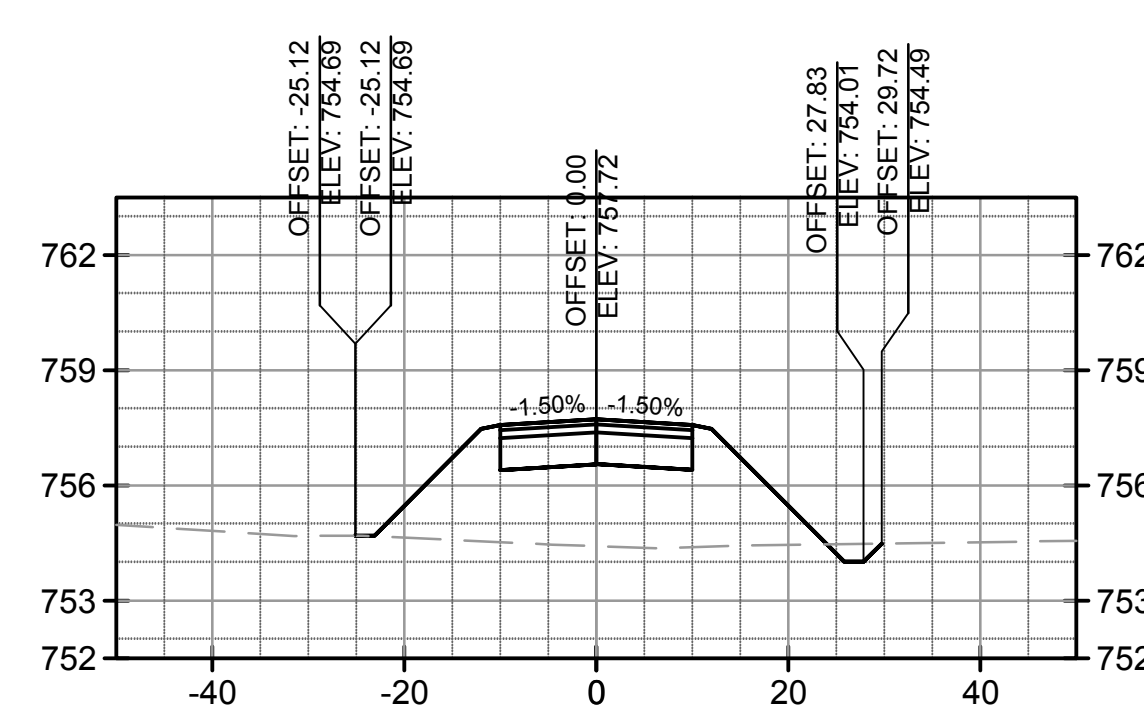
**Material(s) at Station 32+00.00**

Material Name	Area	Volume	Cumulative Volume
CUT	4.41	6.39	1842.37
FILL	75.01	148.50	3955.19



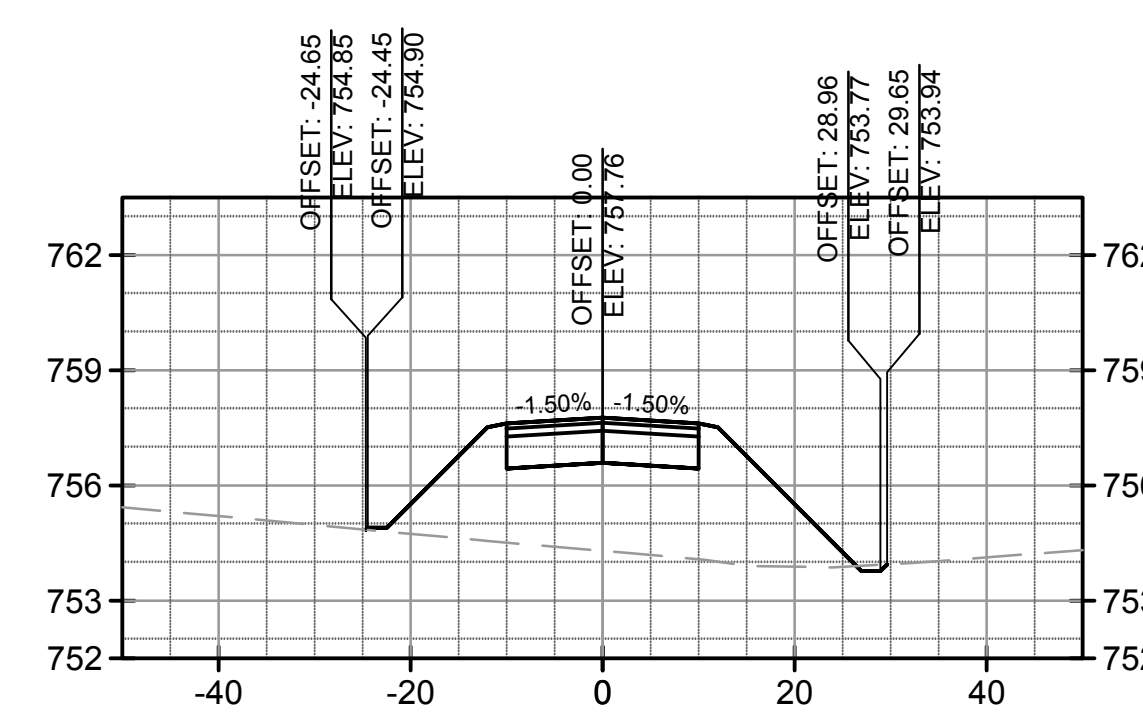
**Material(s) at Station 32+50.00**

Material Name	Area	Volume	Cumulative Volume
CUT	3.70	7.50	1849.87
FILL	76.78	140.47	4095.66



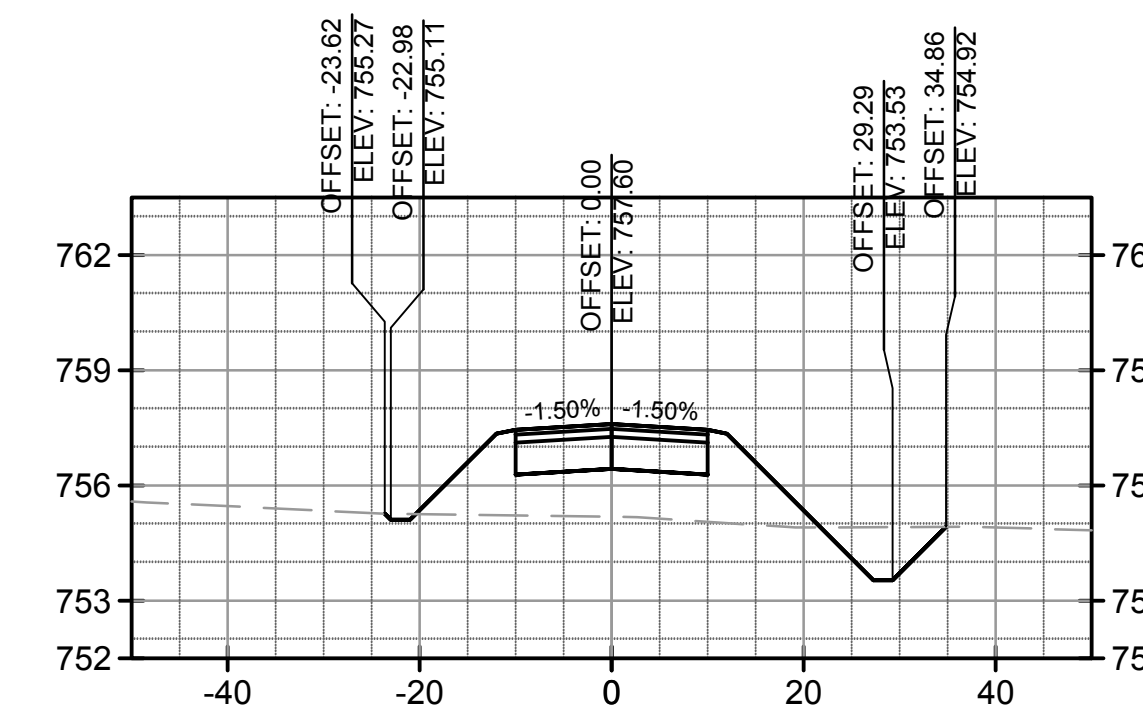
**Material(s) at Station 33+00.00**

Material Name	Area	Volume	Cumulative Volume
CUT	0.93	4.18	1854.04
FILL	113.58	176.12	4271.79



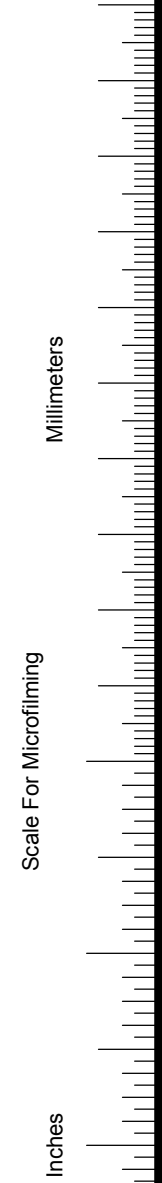
**Material(s) at Station 33+50.00**

Material Name	Area	Volume	Cumulative Volume
CUT	0.00	0.81	1854.86
FILL	126.43	221.62	4493.41



**Material(s) at Station 34+00.00**

Material Name	Area	Volume	Cumulative Volume
CUT	8.35	7.29	1862.15
FILL	76.68	187.43	4680.84



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date	JANUARY 31, 2017	detailed	J. YAHYA
designed	J. YAHYA	checked	B. QUINLAN



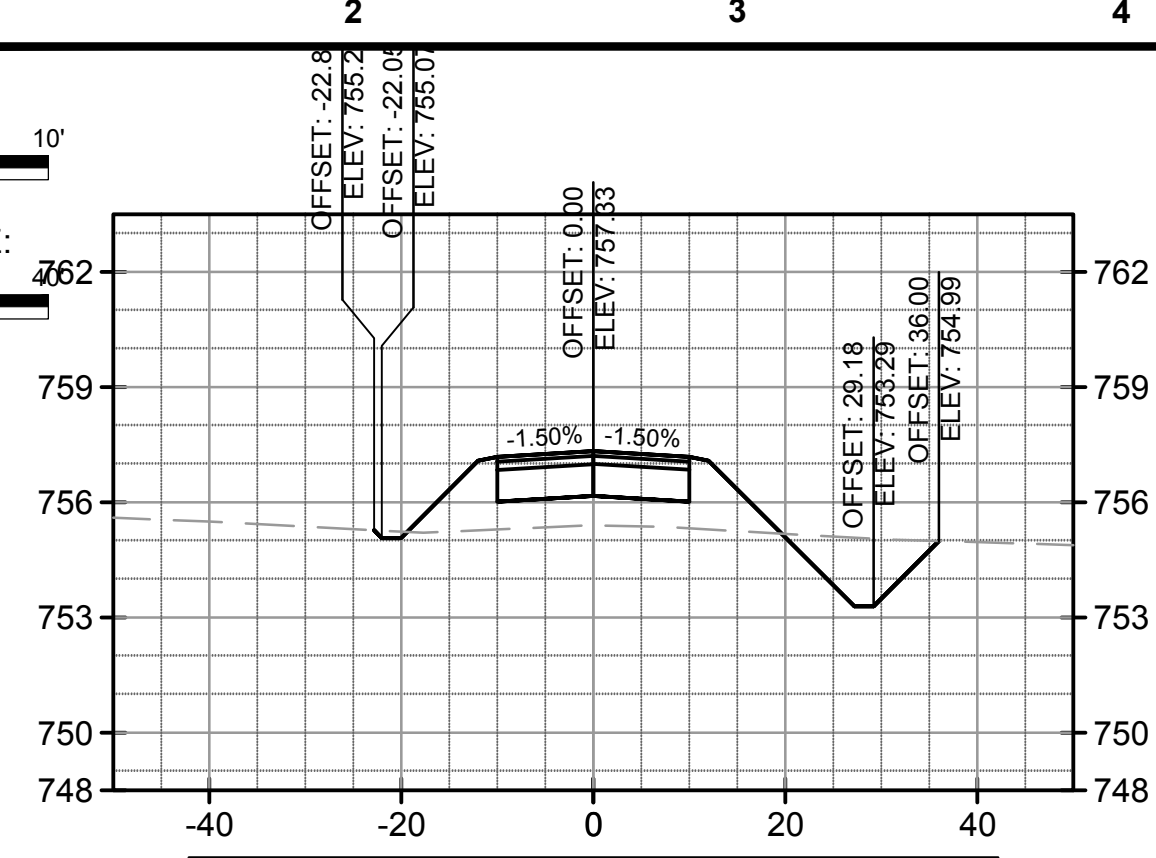
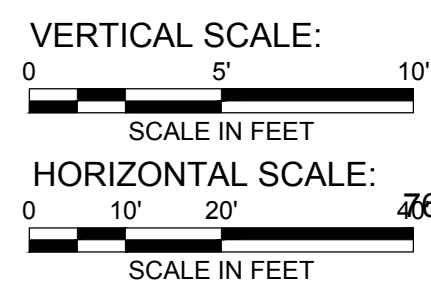
**NORTH END PERIMETER ROADWAY**

CROSS SECTIONS

IL proj: DPA-4488	contract
BMcD: 95738	DU082

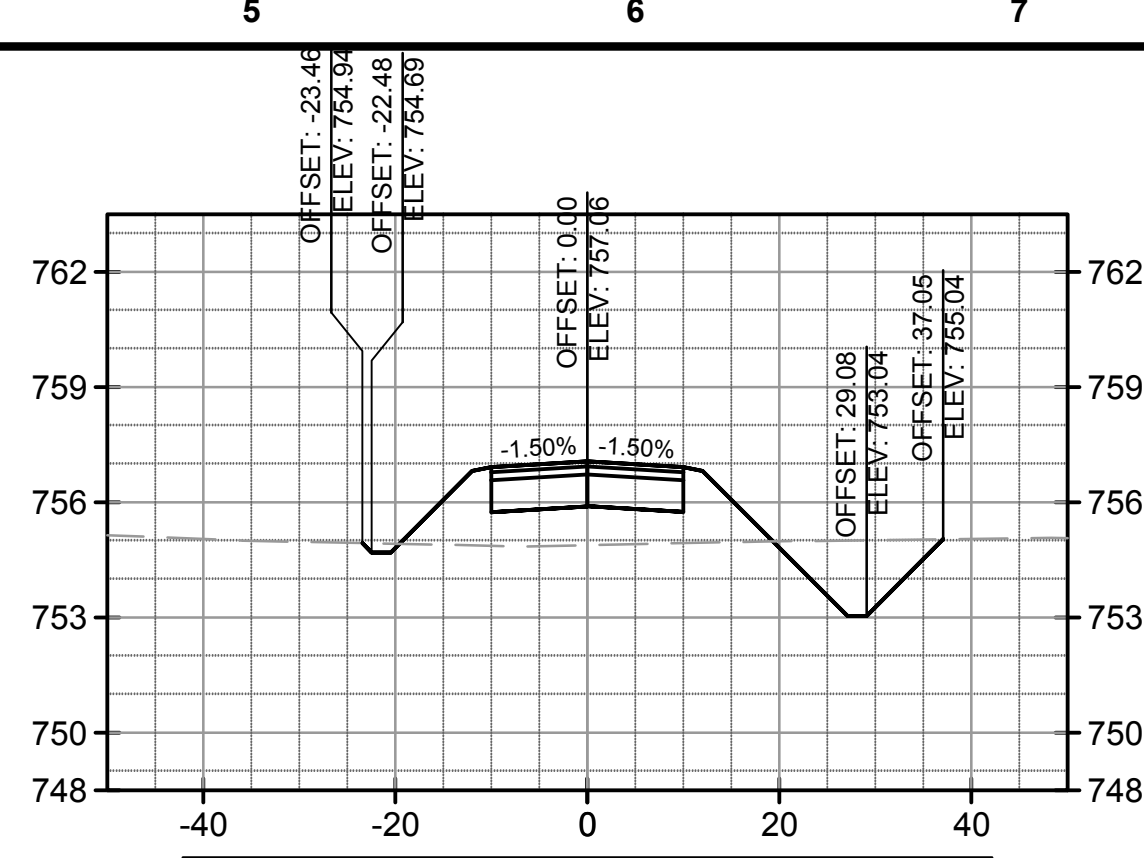
drawing **X-104** rev.

sheet 31	of 32	sheets
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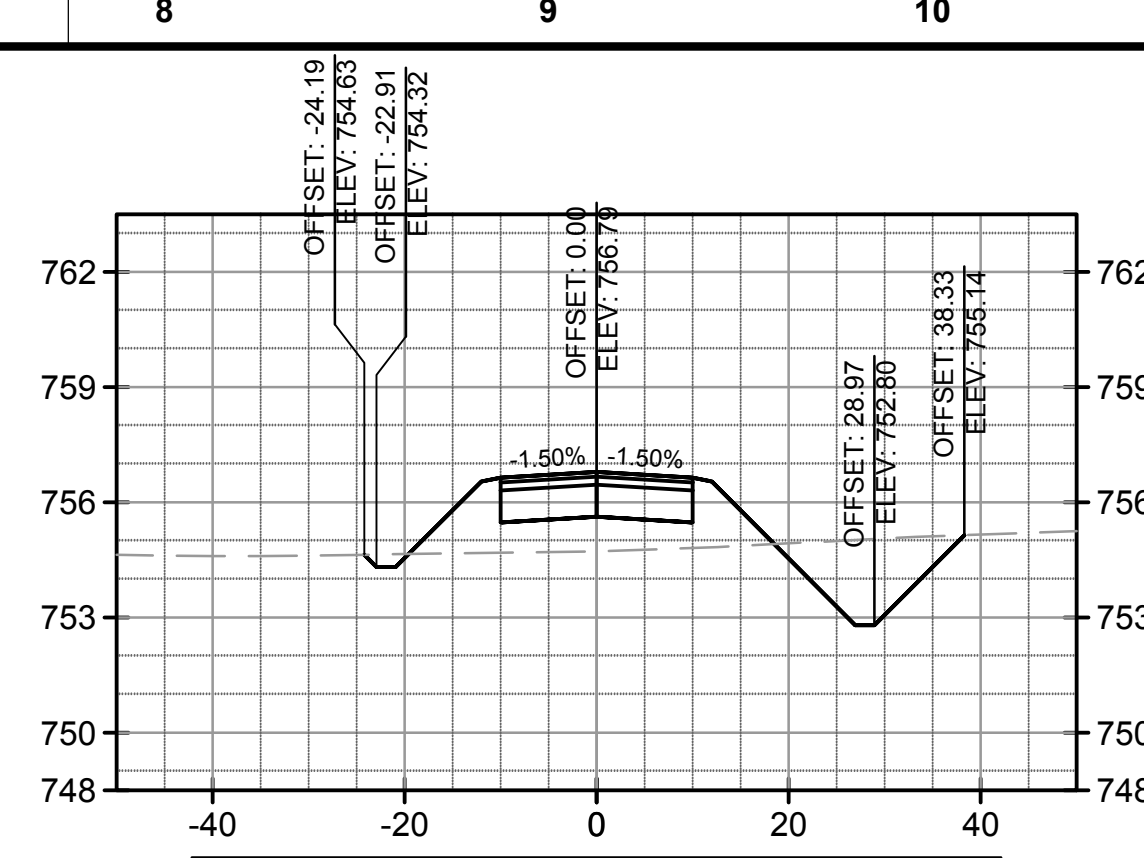
Material(s) at Station 34+50.00

Material Name	Area	Volume	Cumulative Volume
CUT	13.67	19.24	1881.39
FILL	57.75	124.31	4805.15



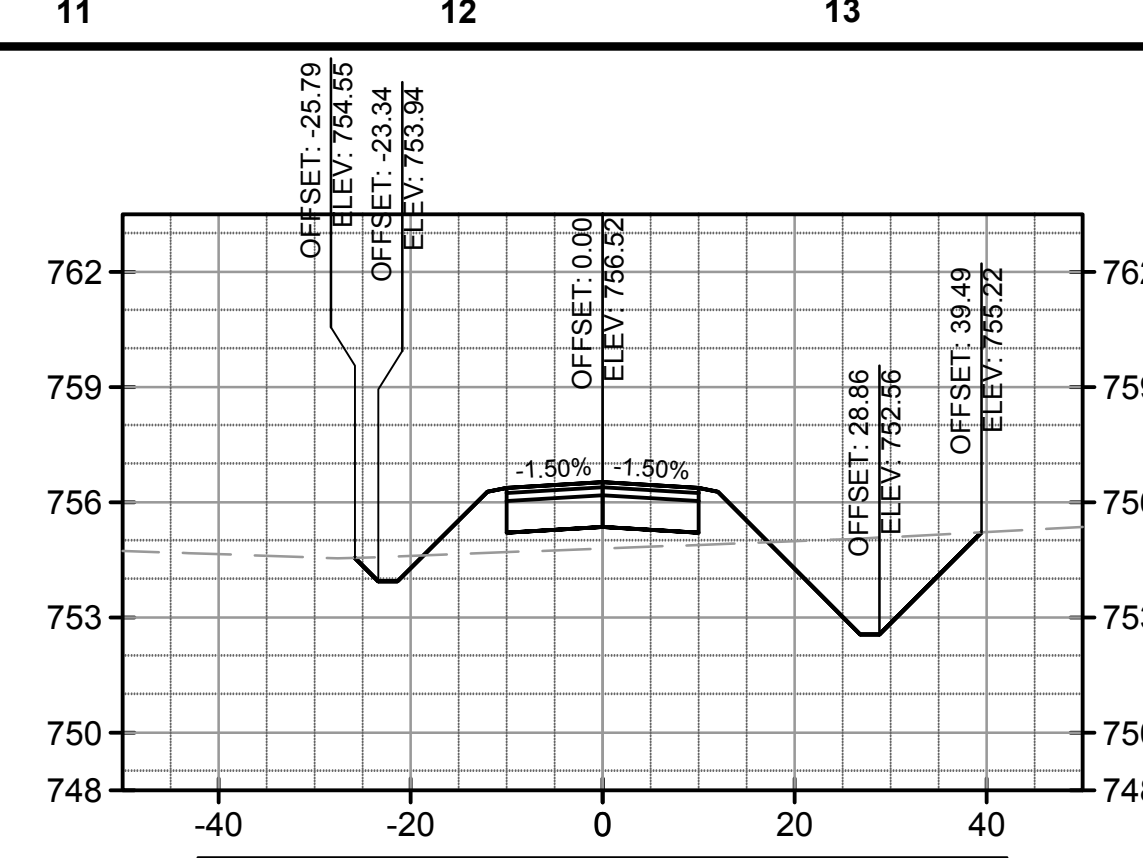
Material(s) at Station 35+00.00

Material Name	Area	Volume	Cumulative Volume
CUT	16.61	26.48	1907.87
FILL	62.37	111.22	4916.37



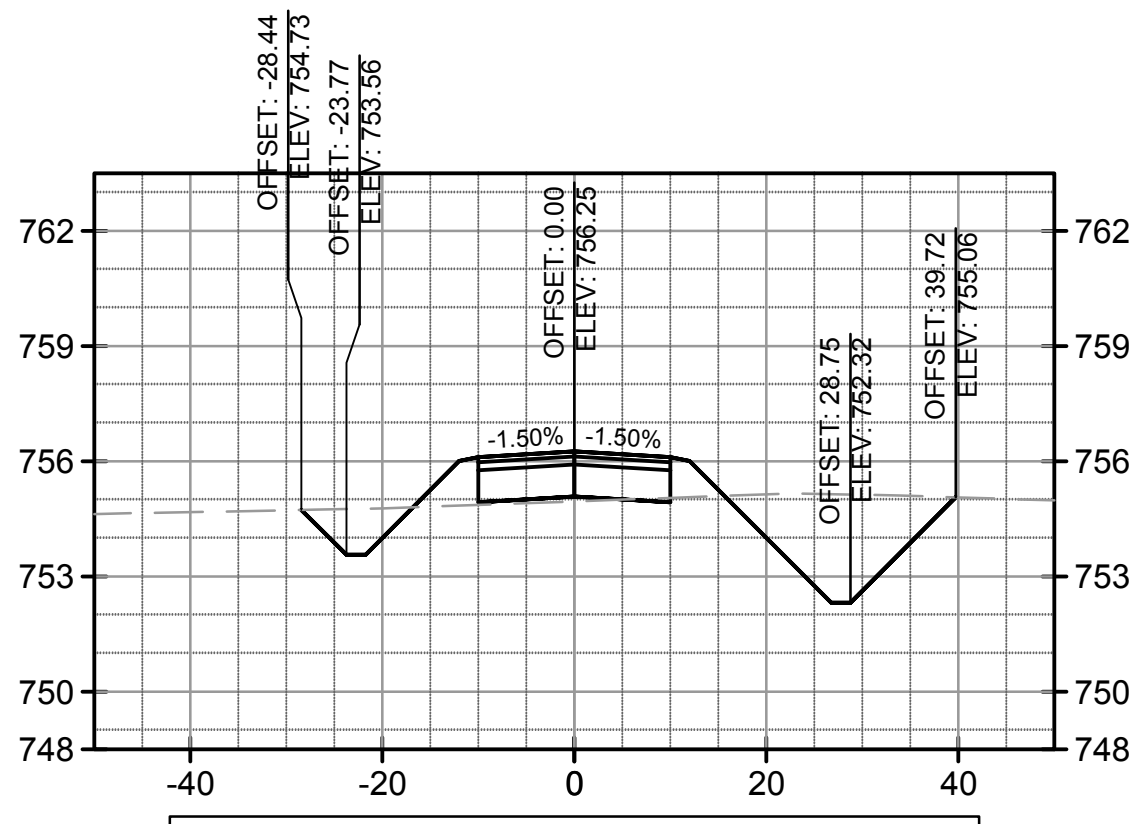
Material(s) at Station 35+50.00

Material Name	Area	Volume	Cumulative Volume
CUT	21.49	33.34	1941.21
FILL	57.63	111.20	5027.57



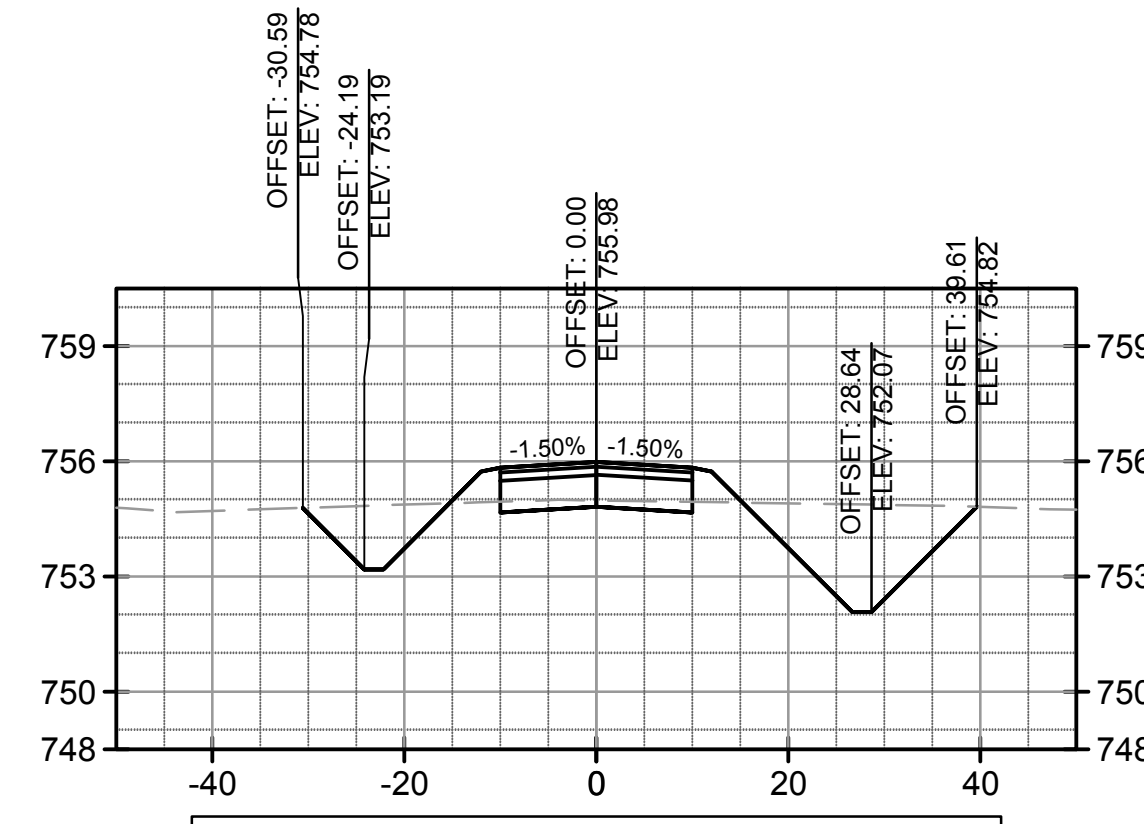
Material(s) at Station 36+00.00

Material Name	Area	Volume	Cumulative Volume
CUT	28.56	43.94	1985.15
FILL	44.64	94.84	5122.42



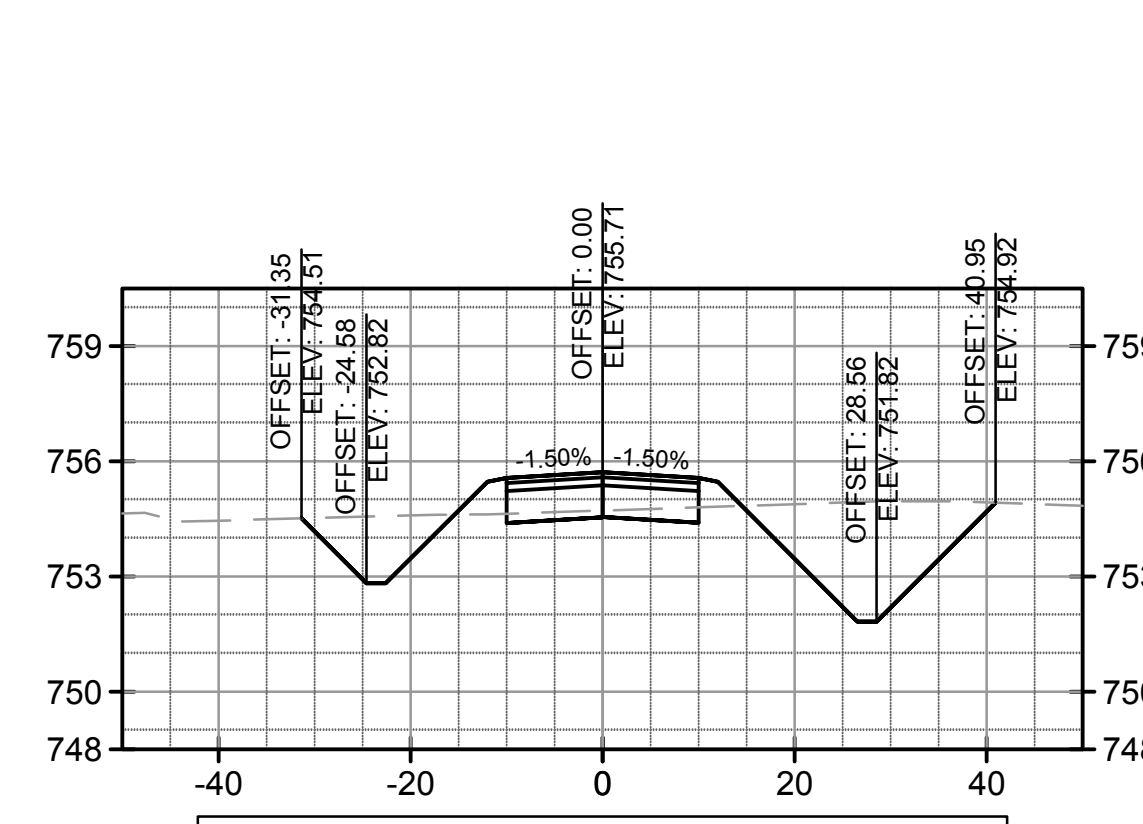
Material(s) at Station 36+50.00

Material Name	Area	Volume	Cumulative Volume
CUT	39.38	60.16	2045.31
FILL	28.17	67.55	5189.97



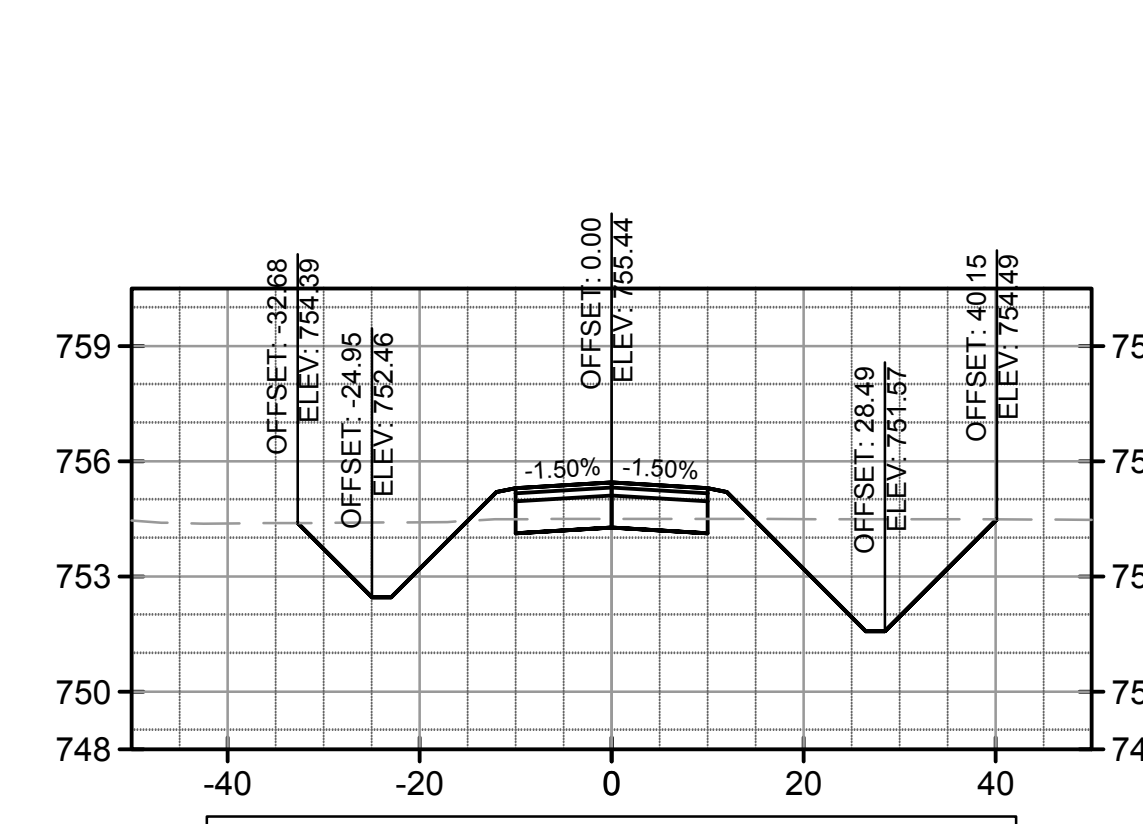
Material(s) at Station 37+00.00

Material Name	Area	Volume	Cumulative Volume
CUT	44.80	75.34	2120.65
FILL	18.67	43.42	5233.40



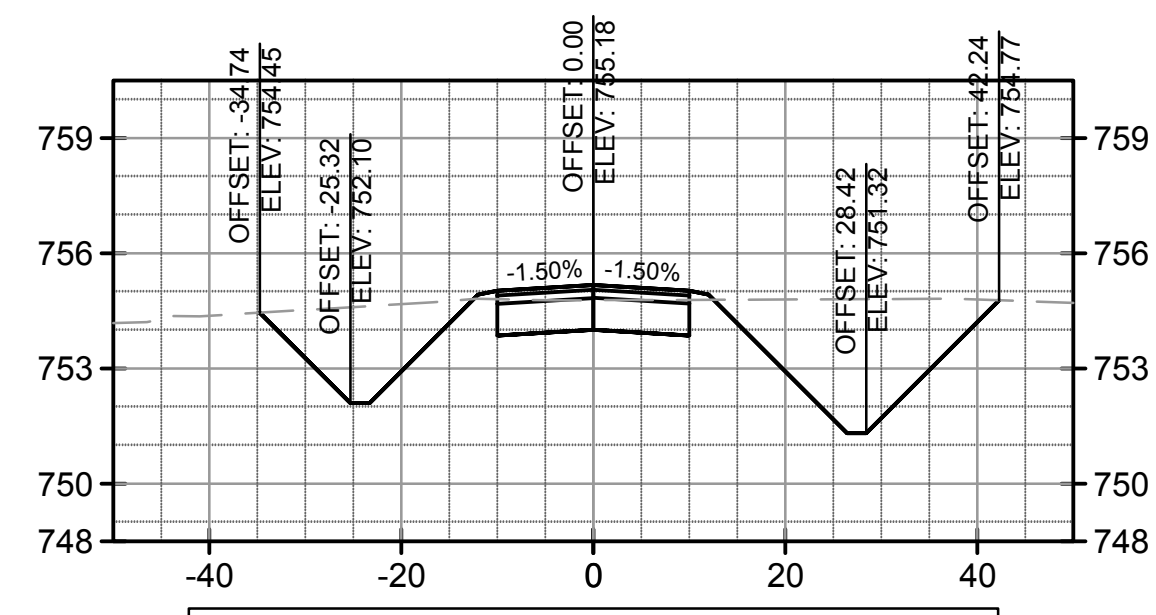
Material(s) at Station 37+50.00

Material Name	Area	Volume	Cumulative Volume
CUT	53.23	90.16	2210.80
FILL	17.45	33.45	5266.85



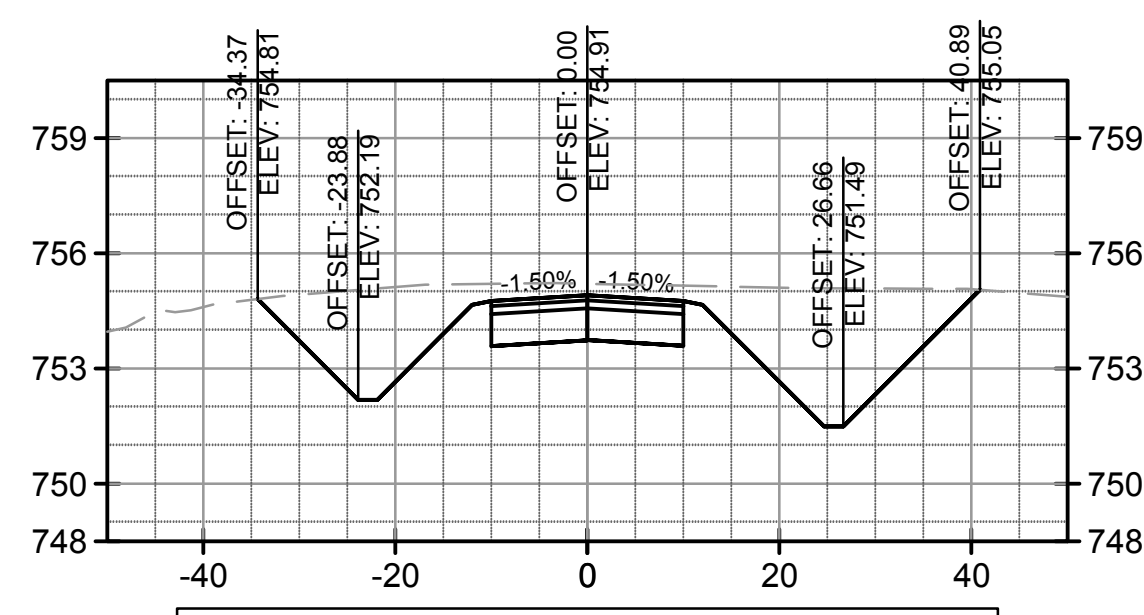
Material(s) at Station 38+00.00

Material Name	Area	Volume	Cumulative Volume
CUT	51.98	97.42	2308.22
FILL	16.03	31.00	5297.84



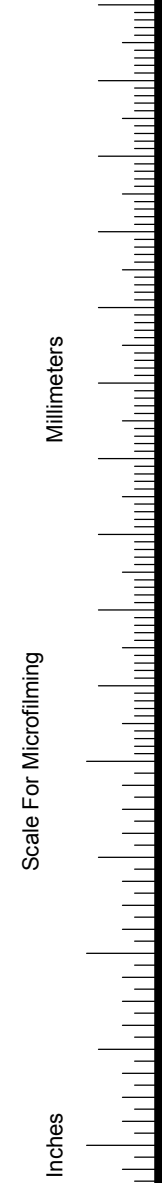
Material(s) at Station 38+50.00

Material Name	Area	Volume	Cumulative Volume
CUT	84.27	126.15	2434.37
FILL	5.28	19.73	5317.57



Material(s) at Station 39+00.00

Material Name	Area	Volume	Cumulative Volume
CUT	110.14	180.00	2614.37
FILL	1.05	5.86	5323.43



no.	date	by	ckd	description
	3/3/17	JY	BQ	100% SUBMITTAL

**BURNS MEDONNELL**

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

date	JANUARY 31, 2017	detailed	J. YAHYA
designed	J. YAHYA	checked	B. QUINLAN

**DUPAGE AIRPORT AUTHORITY**

DuPage, Illinois

**NORTH END PERIMETER ROADWAY**

CROSS SECTIONS

IL proj:	DPA-4488	contract	
BMcD:	95738		DU082
drawing		rev.	
<b>X-105</b>			
sheet	32	of	32 sheets
file			