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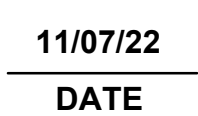
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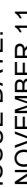


SHEET NO.	ITEM DESCRIPTION
G-001	COVER SHEET
G-002	GENERAL NOTES
G-003	MWRD GENERAL NOTES
G-004	QUANTITIES
C-001	REAL ESTATE DRAWING (WATERMAIN REPLACEMENT)
C-002	REAL ESTATE DRAWING (CULVERT REPLACEMENT)
C-003	CULVERT ALIGNMENT DATA
C-004	TYPICAL SECTIONS - EXISTING CULVERTS
C-005	TYPICAL SECTIONS - PROPOSED CULVERTS
C-006	TYPICAL SECTIONS - WATERMAIN (OPTIONS 3 THROUGH 6)
C-007	AMY DRIVE CULVERT - REMOVAL (BASE BID)
C-008	LAKESHORE DRIVE CULVERT - REMOVAL (OPTION 1)
C-009	IMPERIAL DRIVE CULVERT - REMOVAL (OPTION 2)
C-010	AMY DRIVE CULVERT - PROPOSED (BASE BID)
C-011	LAKESHORE DRIVE CULVERT - PROPOSED (OPTION 1)
C-012	IMPERIAL DRIVE CULVERT - PROPOSED (OPTION 2)
C-013	AMY DRIVE - SWPPP AND LANDSCAPE RESTORATION (BASE BID)
C-014	LAKESHORE - SWPPP AND LANDSCAPE RESTORATION (OPTION 1)
C-015	IMPERIAL DRIVE - SWPPP AND LANDSCAPE RESTORATION (OPTION 2)
C-016	LAKESHORE DRIVE WATERMAIN (OPTIONS 3 AND 4)
C-017	LAKESHORE DRIVE WATERMAIN (OPTIONS 4 AND 5)
C-018	LAKESHORE DRIVE WATERMAIN (OPTIONS 5 AND 6)
C-019	LAKESHORE DRIVE WATERMAIN (OPTION 6)
C-020	LAKESHORE WM SWPPP & RESTORATION (OPTIONS 3 THROUGH 5)
C-021	LAKESHORE WM SWPPP & RESTORATION (OPTIONS 5 AND 6)
C-022	DETAILS - 1
C-023	DETAILS - 2
C-024	DETAILS - 3
C-025	DETAILS - 4
C-026	DETAILS - 5
C-027	DETAILS - 6
C-028	DETAILS - 7
C-029	DETAILS - 8
C-030	CULVERT END SECTION DETAIL - 1
C-031	CULVERT END SECTION DETAIL - 2
C-032	CULVERT END SECTION DETAIL - 3
C-033	CULVERT END SECTION DETAIL - 4

PREPARED BY:



**US Army Corps
of Engineers®**

 Village of Richton Park	U.S. ARMY CORPS OF ENGINEERS CHICAGO DISTRICT 231 S. LA SALLE STREET SUITE 1500 CHICAGO, IL 60604		ISSUE DATE: NOVEMBER 11, 2022
	DRAWN BY: DPP	SOLICITATION NO.: W912P6-23-B-0002	CONTRACT NO.:
	CHECKED BY: CSG		
	SUBMITTED BY: DPP SIZE:		

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE STREET
SUITE 4500























COVER SHEET

SHEET ID
G-001

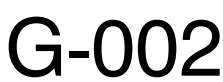
- THE CONTRACTOR, SUB-CONTRACTORS, AND SUPPLIERS CLEAN AND FREE FROM ALL DIRT, MUD, AND OTHER CONSTRUCTION DEBRIS, AND WILL BE REQUIRED TO CLEAN THEM AS IS NECESSARY IN ORDER TO MAINTAIN THEM IN A SAFE, DRIVABLE CONDITION. THE CONTRACTOR SHALL BE RESPONSIVE TO REQUESTS FROM THE ENGINEER, ENGINEER'S REPRESENTATIVE, DIRECTOR OF PUBLIC WORKS SUPERINTENDENT OF STREETS, POLICE AND FIRE DEPARTMENTS, OR ANY OFFICIAL OF THE OWNER TO PRACTICE GOOD HOUSEKEEPING THROUGHOUT THE DURATION OF THE PROJECT. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUSIVE TO THE PAVEMENT RESTORATION PAY ITEM.
- ANY COSTS ASSOCIATED WITH REQUIRED TRIMMING OR TREE REPLACEMENT DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE PAID FOR AT THE CONTRACTOR'S EXPENSE.

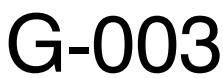
1. CONSTRUCTION SHALL NOT PROCEED UNTIL JUNE 1, 2023. AMY DRIVE AND THE INTERSECTION OF LAKESHORE DRIVE AND IMPERIAL DRIVE SHALL BE OPEN TO TRAFFIC BY AUGUST 15, 2023.
2. IF THE AMY DRIVE AND IMPERIAL DRIVE CULVERTS ARE BOTH AWARDED, ONE MUST BE OPEN TO TRAFFIC PRIOR TO REMOVING THE OTHER. THE LAKESHORE DRIVE CULVERT AND WATER MAIN CONSTRUCTION CAN OCCUR AT ANY POINT IN THE ESTABLISHED CONSTRUCTION PERIOD.
3. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE CORPS AND VILLAGE FOR APPROVAL FOR EACH OF THE AWARDED CULVERT LOCATIONS AND WATER MAIN. A DETOUR PLAN WILL BE REQUIRED FOR THE CULVERT REPLACEMENTS AND THE TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TWO WEEKS PRIOR TO THE START OF CONSTRUCTION.

SYMBOL LEGEND

	ANTENNA
	BOLLARD
	CATTLE PASS
	DELINEATOR
	DRAINAGE MARKER
	FLAG POLE
	GUY POLE
	GUY WIRE
	MAILBOX
	PARKING BLOCK
	PILLAR
	PARKING METER
	POST OR MISC. POLE
	TANK
	GATE POST
	IRON PIN FOUND
	FOUND/PLACE CHIS "X"
	WATER SERVICE NOT LOCATED
	CONTRACTOR TO FIELD LOCATE
	DO NOT DISTURB

RAIL ROAD TRACKS
 RAW WATER LINE (SIZE)
 REMOVAL - 1
 REMOVAL - 2
 REVERSE SLOPE
 SANITARY PIPE
 COMBINATION SEWER PIPE
 SANITARY FORCE MAIN
 SECTION LINE
 SHEET PILING
 SILT FENCE
 STAGE CONSTRUCTION JOINT
 STORM EXISTING
 STORM PROPOSED
 STORM LINE (WATER MAIN QUALITY)
 OVERHEAD TELEPHONE (FIBER OPTIC)
 UNDERGROUND TELEPHONE (FIBER OPTIC)
 OVERHEAD TELEPHONE
 UNDERGROUND TELEPHONE
 TEMPORARY CONSTRUCTION EASEMENT -
 TEMPORARY CONSTRUCTION EASEMENT +
 TEMPORARY TREE EASEMENT
 EXISTING TOP/BOTTOM OF SLOPE
 PROPOSED TOP/BOTTOM OF SLOPE
 TREE LINE
 UNDERDRAIN LINE
 WATER LINE (SIZE)
 WATER IRRIGATION LINE
 CONSTRUCTION LIMITS
 CREEK CENTERLINE
 EDGE OF CREEK





G

F

E

D

C

OPTIONS 3 THROUGH 6 - LAKESHORE DRIVE WATER MAIN

OPTION 3

Bid Item #				Description	Qty	U/M
..	04	A	A	LANDSCAPE AND TURF RESTORATION - OPTION 3	1	JOB
00	04	A	B	PAVEMENT RESTORATION - OPTION 3	1	JOB
00	04	A	C	ABANDON EXISTING WATER MAIN - OPTION 3	1	JOB
00	04	A	D	6-INCH C900 PVC WATER MAIN (OPEN-CUT)	21	FOOT
00	04	A	E	8-INCH C900 PVC WATER MAIN (OPEN-CUT)	399	FOOT
00	04	A	F	10-INCH C900 PVC WATER MAIN (OPEN-CUT)	28	FOOT
00	04	A	G	12-INCH C900 PVC WATER MAIN (OPEN-CUT)	105	FOOT
00	04	A	H	FIRE HYDRANT ASSEMBLY	2	EACH
00	04	A	I	WATER SERVICE RE-CONNECTION, LONG	5	EACH
00	04	A	J	WATER SERVICE RE-CONNECTION, SHORT	1	EACH
00	04	A	K	CONNECT TO EXISTING WATER MAIN, 6-INCH	2	EACH
00	04	A	L	CONNECT TO EXISTING WATER MAIN, 8-INCH	1	EACH
00	04	A	M	CONNECT TO EXISTING WATER MAIN, 10-INCH	1	EACH
00	04	A	N	CONNECT TO EXISTING WATER MAIN, 12-INCH	1	EACH
00	04	A	O	GATE VALVE, 8-INCH WITH VALVE BOX	4	EACH
00	04	A	P	GATE VALVE, 12-INCH WITH VALVE BOX	3	EACH

OPTION 4

Bid Item #				Description	Qty	U/M
00	05	A	A	LANDSCAPE AND TURF RESTORATION - OPTION 4	1	JOB
00	05	A	B	PAVEMENT RESTORATION - OPTION 4	1	JOB
00	05	A	C	ABANDON EXISTING WATER MAIN - OPTION 4	1	JOB
00	05	A	D	8-INCH C900 PVC WATER MAIN (OPEN-CUT)	429	FOOT
00	05	A	E	FIRE HYDRANT ASSEMBLY	2	EACH
00	05	A	F	WATER SERVICE RE-CONNECTION, LONG	5	EACH
00	05	A	G	WATER SERVICE RE-CONNECTION, SHORT	6	EACH
00	05	A	H	GATE VALVE, 8-INCH WITH VALVE BOX	1	EACH
00	05	A	I	REMOVE AND REPLACE 24" STORM SEWER WITH 24" WMQ PIPE	16	FOOT

OPTION 5

Bid Item #				Description	Qty	U/M
00	06	A	A	LANDSCAPE AND TURF RESTORATION - OPTION 5	1	JOB
00	06	A	B	PAVEMENT RESTORATION - OPTION 5	1	JOB
00	06	A	C	ABANDON EXISTING WATER MAIN - OPTION 5	1	JOB
00	06	A	D	8-INCH C900 PVC WATER MAIN (OPEN-CUT)	553	FOOT
00	06	A	E	FIRE HYDRANT ASSEMBLY	2	EACH
00	06	A	F	WATER SERVICE RE-CONNECTION, LONG	9	EACH
00	06	A	G	WATER SERVICE RE-CONNECTION, SHORT	7	EACH
00	06	A	H	GATE VALVE, 8-INCH WITH VALVE BOX	1	EACH
00	06	A	I	REMOVE AND REPLACE 12" STORM SEWER WITH 12" WMQ PIPE	17	FOOT

OPTION 6

Bid Item #				Description	Qty	U/M
00	07	A	A	LANDSCAPE AND TURF RESTORATION - OPTION 6	1	JOB
00	07	A	B	PAVEMENT RESTORATION - OPTION 6	1	JOB
00	07	A	C	ABANDON EXISTING WATER MAIN - OPTION 6	1	JOB
00	07	A	D	6-INCH C900 PVC WATER MAIN (OPEN-CUT)	43	FOOT
00	07	A	E	8-INCH C900 PVC WATER MAIN (OPEN-CUT)	337	FOOT
00	07	A	F	FIRE HYDRANT ASSEMBLY	1	EACH
00	07	A	G	WATER SERVICE RE-CONNECTION, LONG	5	EACH
00	07	A	H	WATER SERVICE RE-CONNECTION, SHORT	4	EACH
00	07	A	I	CONNECT TO EXISTING WATER MAIN, 6-INCH	1	EACH
00	07	A	J	GATE VALVE, 8-INCH WITH VALVE BOX	3	EACH
00	07	A	K	REMOVE AND REPLACE 12" STORM SEWER WITH 12" WMQ PIPE	63	FOOT

BASE BID - AMY DRIVE CULVERT						
Bid Item #				Description	Qty	U/M
00	01	A	A	LANDSCAPE AND TURF RESTORATION - BASE BID	1	JOB
00	01	A	B	PAVEMENT RESTORATION - BASE BID	1	JOB
00	01	A	C	BOX CULVERT END SECTIONS, CULVERT NO. 1	2	EACH
00	01	A	D	PRECAST CONCRETE BOX CULVERTS 6' X 3'	67	FOOT
00	01	A	E	STORM SEWERS, 18"	10	FOOT
00	01	A	F	STRUCTURE TO BE ADJUSTED	1	EACH

OPTION 1 - LAKESHORE DRIVE CULVERT

Bid Item #				Description	Qty	U/M
00	02	A	A	LANDSCAPE AND TURF RESTORATION - OPTION 1	1	JOB
00	02	A	B	PAVEMENT RESTORATION - OPTION 1	1	JOB
00	02	A	C	BOX CULVERT END SECTIONS, CULVERT NO. 2	2	EACH
00	02	A	D	PRECAST CONCRETE BOX CULVERTS 8' X 5'	130	FOOT
00	02	A	E	STORM SEWERS, 15"	16	FOOT
00	02	A	F	STRUCTURE TO BE ADJUSTED	2	EACH


OPTION 2 - IMPERIAL DRIVE CULVERT

Bid Item #				Description	Qty	U/M
00	03	A	A	LANDSCAPE AND TURF RESTORATION - OPTION 2	1	JOB
00	03	A	B	PAVEMENT RESTORATION - OPTION 2	1	JOB
00	03	A	C	BOX CULVERT END SECTIONS, CULVERT NO. 3	2	EACH
00	03	A	D	PRECAST CONCRETE BOX CULVERTS 6' X 3'	62	FOOT
00	03	A	E	STORM SEWERS, 12"	10	FOOT
00	03	A	F	STRUCTURE TO BE ADJUSTED	1	EACH



**US Army Corps
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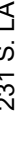
 Village of Richton Park	U.S. ARMY CORPS OF ENGINEERS CHICAGO DISTRICT 231 S. LASALLE STREET SUITE 1500 CHICAGO, IL 60604		ISSUE DATE: NOVEMBER 11, 2022
	DRAWN BY: S. J. HARRIS	SOLICITATION NO.: 15-00002	CONTRACT NO.:
	CHECKED BY: CSG		
	SUBMITTED BY: DPP		
SIZE:			

QUANTITIES

SHEET ID

G-004

[illegible]

 <p>Village of Richton Park</p>	DRAWN BY: W912PE-23-B-0002		CONTRACT NO.:
	CHECKED BY: CSG		SUBMITTED BY: DPP
	DATE: 11/1/2023		SIZE:
	SCALE:		

REAL ESTATE DRAWING (CULVERT REPLACEMENT)

SHEET ID
-002

ARQUILLA DRIVE

62

61

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59

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10' DRAINAGE & PUBLIC UTILITY EASEMENT

30'

60'

AMY DRIVE

PROPOSED 20'X30' TEMPORARY USE EASEMENT

65

64

10' DRAINAGE & PUBLIC UTILITY EASEMENT

MONTEREY DRIVE

LAKESHORE DRIVE

10' DRAINAGE & PUBLIC UTILITY EASEMENT

10' DRAINAGE & PUBLIC UTILITY EASEMENT

66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77

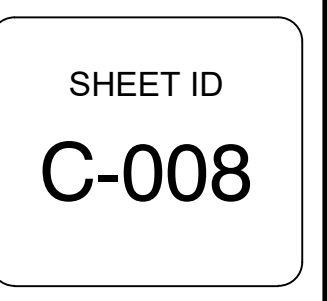
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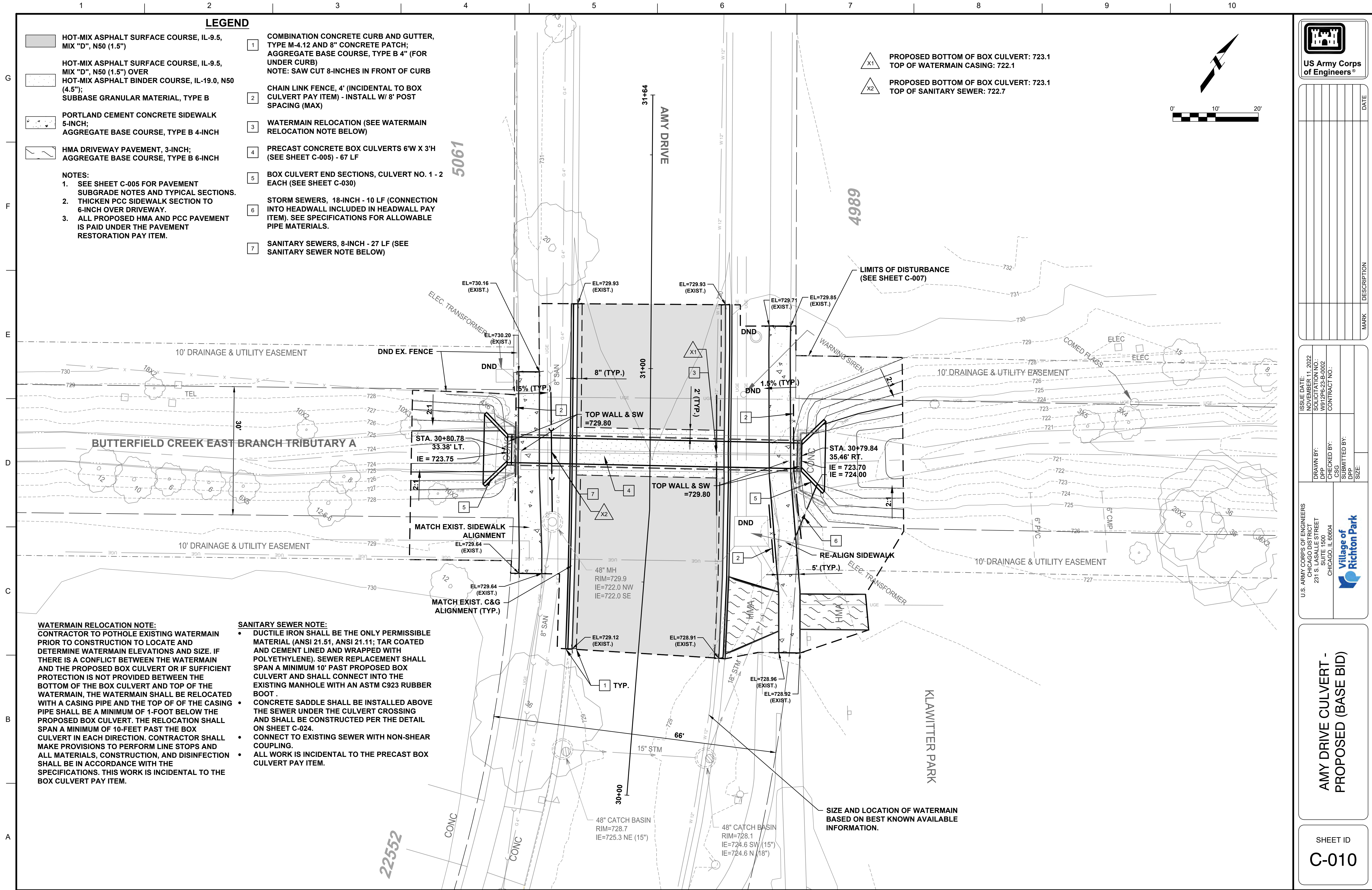
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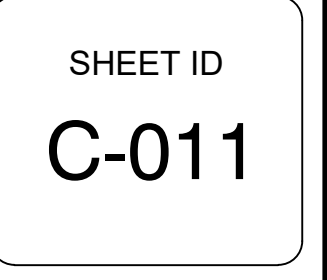
NO.	PROPERTY ADDRESS	PIN	ADDRESSEE	MAILING ADDRESS
IMPERIAL CULVERT				
49	5214 IMPERIAL DR, RICHTON PARK, IL 60471	31-33-104-023-0000	HENRY HUNT	5214 IMPERIAL DR, RICHTON PARK, IL 60471
50	5206 IMPERIAL DR, RICHTON PARK, IL 60471	31-33-104-024-0000	CHERYL JEFFRIES	5206 IMPERIAL DR, RICHTON PARK, IL 60471
51	5165 ARQUILLA DR, RICHTON PARK, IL 60471	31-33-206-035-0000	CRYSTAL SEALS	5165 ARQUILLA DR, RICHTON PARK, IL 60471
52	5159 ARQUILLA DR, RICHTON PARK, IL 60471	31-33-206-034-0000	DAANE Y CHOI	5159 ARQUILLA DR, RICHTON PARK, IL 60471
53	5156 IMPERIAL DR, RICHTON PARK, IL 60471	31-33-206-037-0000	MOSES & CLARE TATE	5156 IMPERIAL DR, RICHTON PARK, IL 60471
54	5164 IMPERIAL DR, RICHTON PARK, IL 60471	31-33-206-036-0000	COLONY STARWOOD HOMES	8665 E HARTFORD DR 200, SCOTTSDALE, AZ 85255
55	5203 IMPERIAL DR, RICHTON PARK, IL 60471	31-33-207-015-0000	REGINA S HARRIS	5203 IMPERIAL DR, RICHTON PARK, IL 60471
56	5209 IMPERIAL DR, RICHTON PARK, IL 60471	31-33-207-016-0000	VANITA A SEALS	5209 IMPERIAL DR, RICHTON PARK, IL 60471
57	5221 IMPERIAL DR, RICHTON PARK, IL 60471	31-33-102-061-0000	JOHN JONES	5221 IMPERIAL DR, RICHTON PARK, IL 60471
58	5229 IMPERIAL DR, RICHTON PARK, IL 60471	31-33-102-060-0000	TERRANCE D WATKINS	PO BOX 1022, RICHTON PARK, IL 60471
78	22885 WESTWIND DR, RICHTON PARK, IL 60471	31-33-314-005-0000	WEST HIGHLAND HOMES, IN	5302 CROSSWIND DR, RICHTON PARK, IL 60471
AMY CULVERT				
59	5101 ARQUILLA DR, RICHTON PARK, IL 60471	31-33-206-023-0000	TARA T HARRISON WALTER	5101 ARQUILLA DR, RICHTON PARK, IL 60471
60	5061 ARQUILLA DR, RICHTON PARK, IL 60471	31-33-206-022-0000	HOMESTAR BK & FIN	8630 W BLACKTHORNE WAY, FRANKFORT, IL 60423
61	4989 ARQUILLA DR, RICHTON PARK, IL 60471	31-33-203-057-0000	LITA MORENO SHAW	3614 213TH PL, MATTESON, IL 60443
62	4985 ARQUILLA DR, RICHTON PARK, IL 60471	31-33-203-056-0000	WM & SCHERYL SPILLER	4985 W ARQUILLA DR, RICHTON PARK, IL 60471
63	RICHTON PARK, IL 60471	31-33-200-016-0000	N/A	N/A
64	22560 AMY DR, RICHTON PARK, IL 60471	31-33-206-020-0000	RTD HOLDINGS LLC	22560 AMY DR, RICHTON PARK, IL 60471
65	22552 AMY DR, RICHTON PARK, IL 60471	31-33-206-021-0000	CUFFORD D MOSLEY	22552 AMY DR, RICHTON PARK, IL 60471

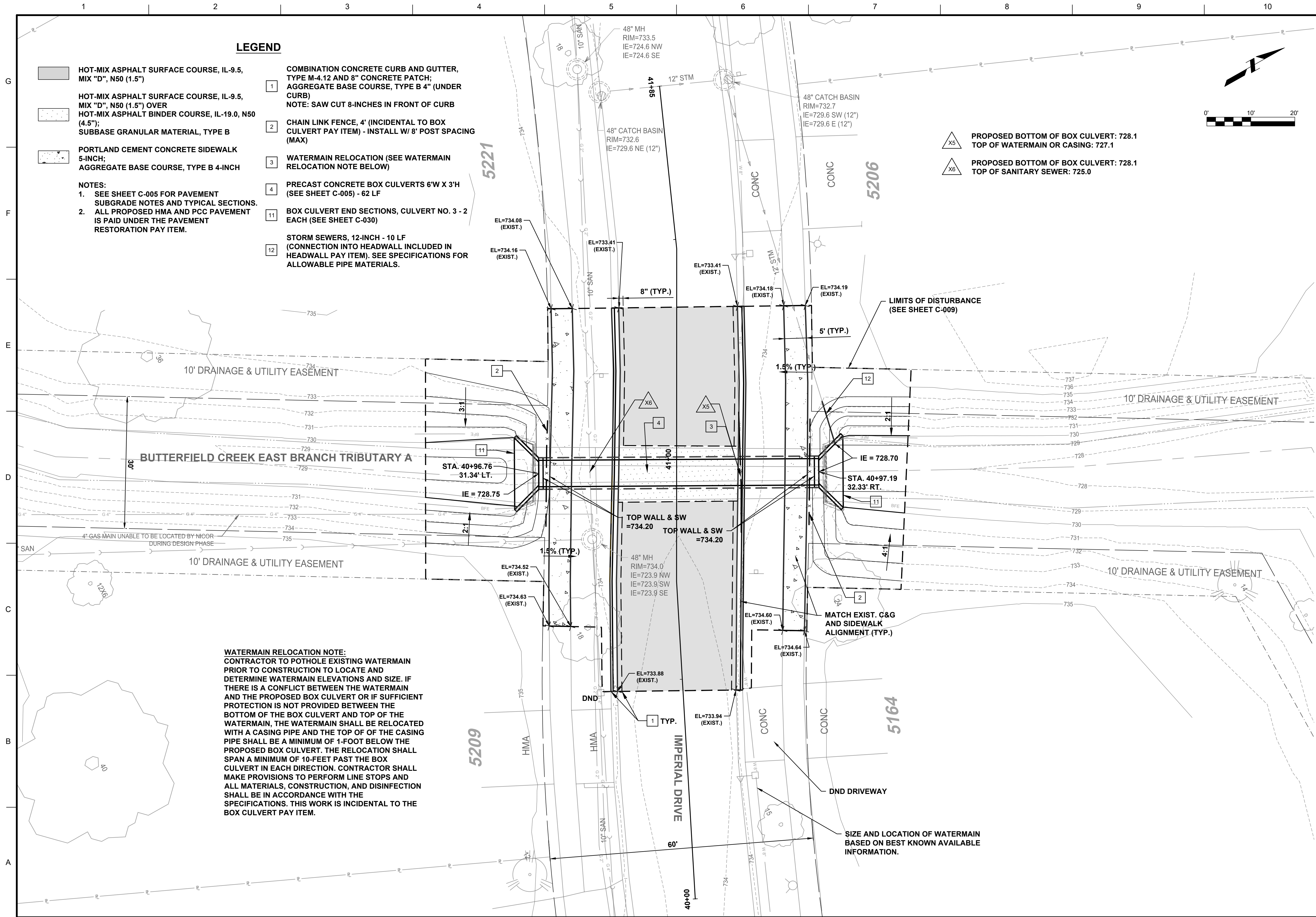
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LAKESHORE CULTVET				
66	22744 LAKESHORE DR, RICHTON PARK, IL 60471	31-33-402-006-0000	MARLENA RAGLAND	22744 LAKESHORE DR, RICHTON PARK, IL 60471
67	22736 LAKESHORE DR, RICHTON PARK, IL 60471	31-33-402-005-0000	JERMAINE D HUNTER	22736 LAKESHORE DR, RICHTON PARK, IL 60471
68	4941 MONTEREY DR, RICHTON PARK, IL 60471	31-33-406-001-0000	LICHARD SPARKS	4941 MONTEREY DR, RICHTON PARK, IL 60471
69	4993 MONTEREY DR, RICHTON PARK, IL 60471	31-33-406-002-0000	LUSHAWN A SMITH	4993 MONTEREY DR, RICHTON PARK, IL 60471
70	22738 VALLEY DR, RICHTON PARK, IL 60471	31-33-406-003-0000	MICHAEL INGRAM	3 GRANT SQ #101, HINSDALE, IL 60521
71	22756 VALLEY DR, RICHTON PARK, IL 60471	31-33-406-004-0000	PNC BANK NATIONAL	3323 NEWMARK DR, MIAMISBURG, OH 45342
72	22756 VALLEY DR, RICHTON PARK, IL 60471	31-33-406-005-0000	ARMONT NASH	22756 VALLEY DR, RICHTON PARK, IL 60471
73	22763 LAKESHORE DR, RICHTON PARK, IL 60471	31-33-406-027-0000	BETTY RANDLE	22763 LAKESHORE DR, RICHTON PARK, IL 60471
74	22757 LAKESHORE DR, RICHTON PARK, IL 60471	31-33-406-026-0000	FRED & THERESA DAVIS	22757 LAKESHORE DR, RICHTON PARK, IL 60471
75	22756 LAKESHORE DR, RICHTON PARK, IL 60471	31-33-409-036-0000	LORA E HARRIS	22756 LAKESHORE DR, RICHTON PARK, IL 60471
76	22762 LAKESHORE DR, RICHTON PARK, IL 60471	31-33-409-035-0000	AMANDA J CROSSLEY	22762 LAKESHORE DR, RICHTON PARK, IL 60471
77	5021 RIDGELAND AVE, HAZEL CREST, IL 60429	31-33-400-002-0000	GERSHON BASSMAN EXEC	6039 N BERNARD ST, CHICAGO, IL 60659

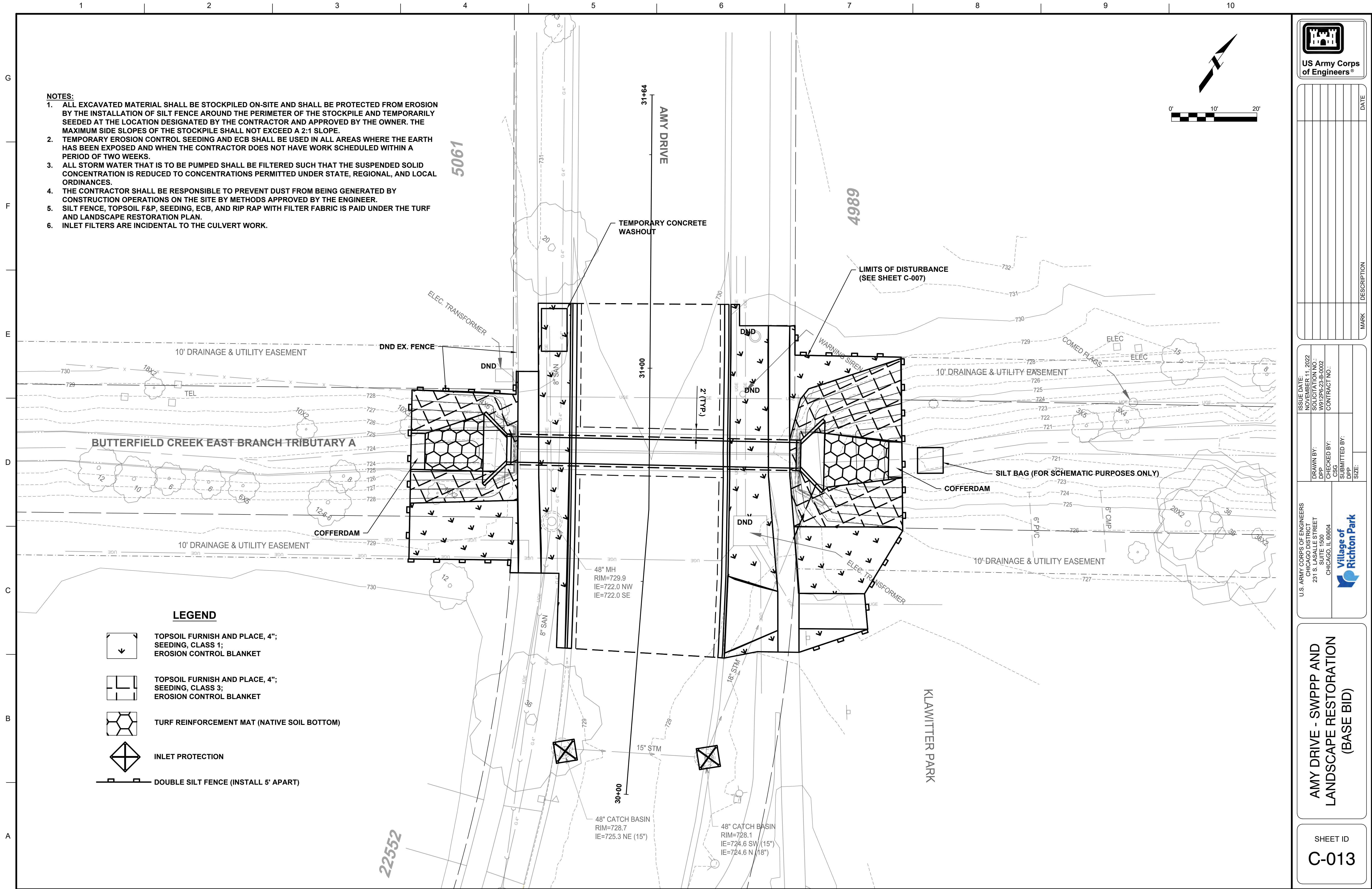


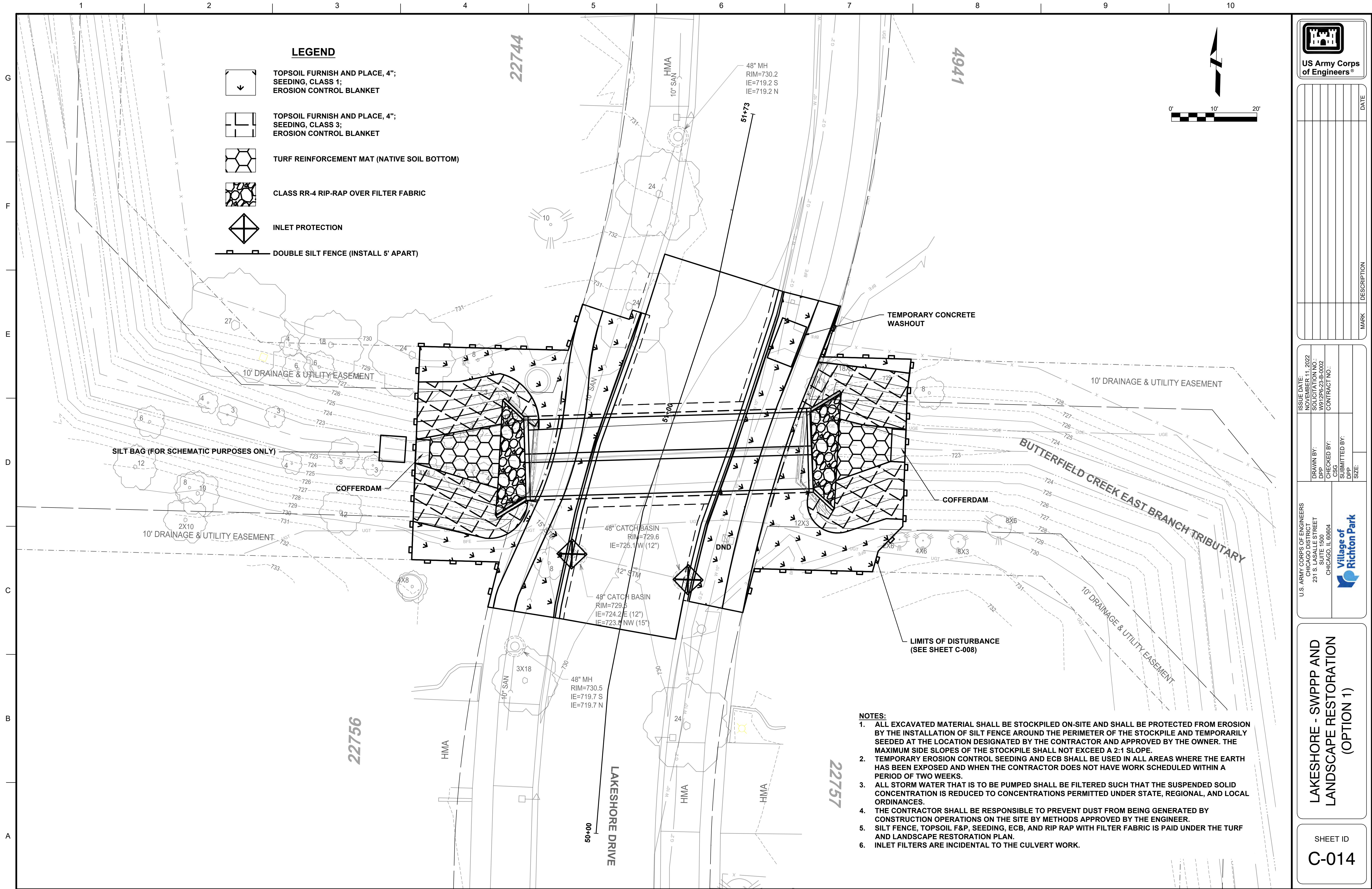












LEGEND

- TOPSOIL FURNISH AND PLACE, 4";
SEEDING, CLASS 1;
EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 4";
SEEDING, CLASS 3;
EROSION CONTROL BLANKET
- TURF REINFORCEMENT MAT (NATIVE SOIL BOTTOM)
- CLASS RR-4 RIP-RAP OVER FILTER FABRIC
- INLET PROTECTION
- DOUBLE SILT FENCE (INSTALL 5' APART)

NOTES:

- ALL EXCAVATED MATERIAL SHALL BE STOCKPILED ON-SITE AND SHALL BE PROTECTED FROM EROSION BY THE INSTALLATION OF SILT FENCE AROUND THE PERIMETER OF THE STOCKPILE AND TEMPORARILY SEEDED AT THE LOCATION DESIGNATED BY THE CONTRACTOR AND APPROVED BY THE OWNER. THE MAXIMUM SIDE SLOPES OF THE STOCKPILE SHALL NOT EXCEED A 2:1 SLOPE.
- TEMPORARY EROSION CONTROL SEEDING AND ECB SHALL BE USED IN ALL AREAS WHERE THE EARTH HAS BEEN EXPOSED AND WHEN THE CONTRACTOR DOES NOT HAVE WORK SCHEDULED WITHIN A PERIOD OF TWO WEEKS.
- ALL STORM WATER THAT IS TO BE PUMPED SHALL BE FILTERED SUCH THAT THE SUSPENDED SOLID CONCENTRATION IS REDUCED TO CONCENTRATIONS PERMITTED UNDER STATE, REGIONAL, AND LOCAL ORDINANCES.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PREVENT DUST FROM BEING GENERATED BY CONSTRUCTION OPERATIONS ON THE SITE BY METHODS APPROVED BY THE ENGINEER.
- SILT FENCE, TOPSOIL F&P, SEEDING, ECB, AND RIP RAP WITH FILTER FABRIC IS PAID UNDER THE TURF AND LANDSCAPE RESTORATION PLAN.
- INLET FILTERS ARE INCIDENTAL TO THE CULVERT WORK.



DATE	DESCRIPTION	MARK

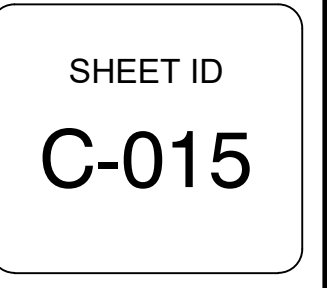
ISSUE DATE: NOVEMBER 11, 2022	DRAWN BY: DPP	CHECKED BY: CSG	SUBMITTED BY: DPP	SIZE:
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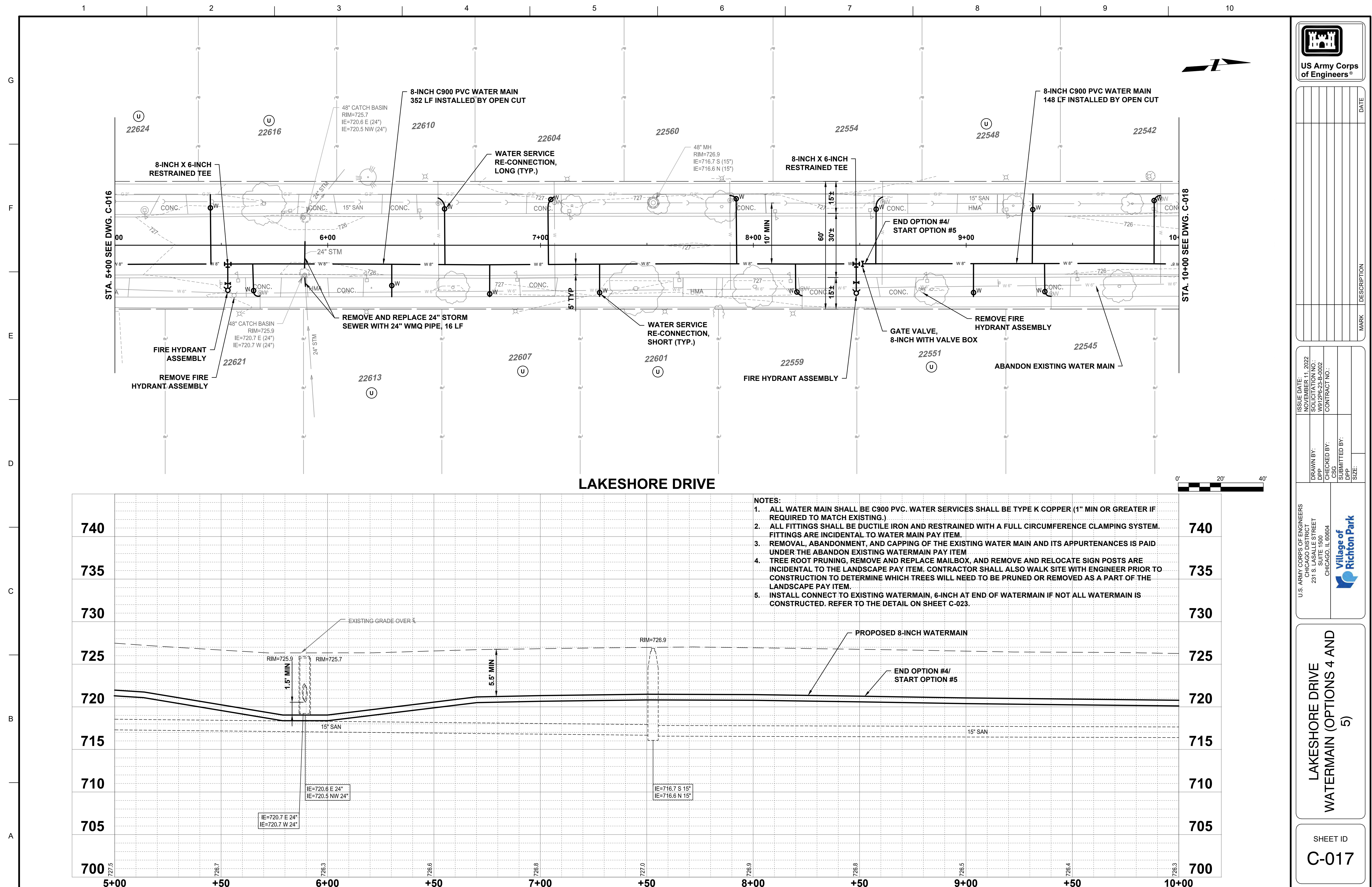
U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LA SALLE STREET
SUITE 1300
CHICAGO, IL 60604

Village of
Richton Park

SHEET ID
C-014

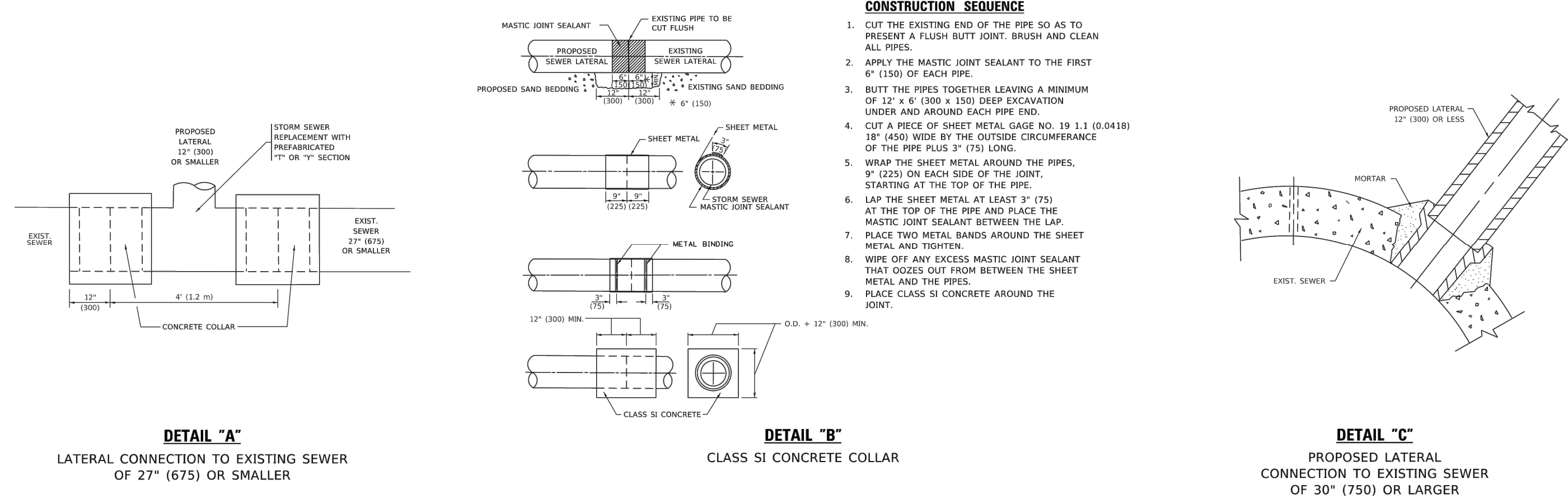
LAKESHORE - SWPPP AND
LANDSCAPE RESTORATION
(OPTION 1)











NOTES:

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

- I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.

- II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
- A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
 - B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

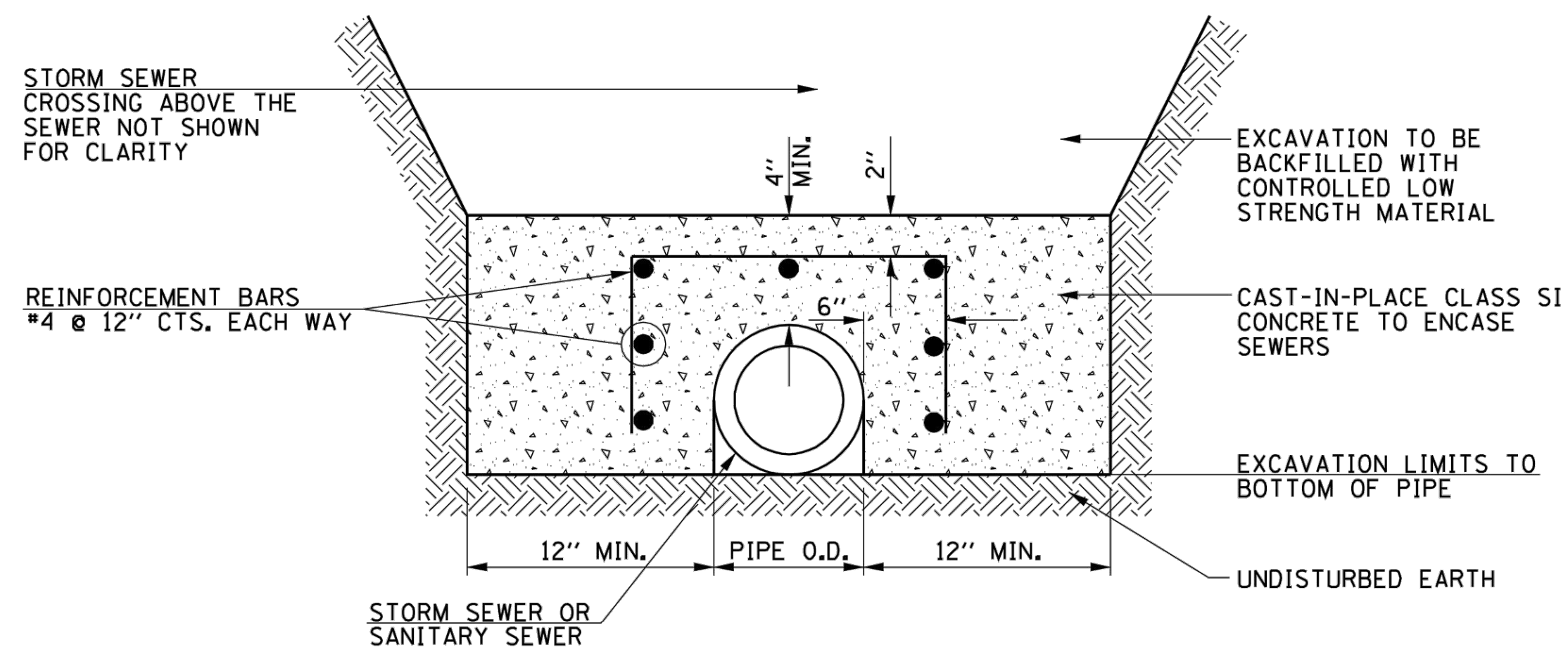
1. CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.
2. CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

3. TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR SECTION SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS. THIS PRICE SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, AND SUPPLIES NECESSARY FOR THE UNFURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED FITTINGS AND ALL OTHER MATERIALS NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.
4. REMOVAL AND REINSTALLATION OF EXISTING SECTION SEWER ADJACENT TO THE PROPOSED SECTION SEWER FOR CONNECTION SHALL BE PAID SEPARATELY. THE PRICE FOR THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE PRICE FOR THE SECTION SEWER.
5. TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.
6. CONCRETE CALLOUT FOR CONNECTING A PROPOSED SECTION SEWER TO AN EXISTING SECTION SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED SECTION SEWER.

* ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

USER NAME : dmamcrak	DESIGNED : M. DE YONG	REVISED : R. SHAH 09-09-04	<div style="display: flex; justify-content: space-between;"> <div> <p>STATE OF ILLINOIS</p> <p>DEPARTMENT OF TRANSPORTATION</p> </div> <div> <p>DETAIL OF STORM SEWER</p> <p>CONNECTION TO EXISTING SEWER</p> </div> <div> <p>F.A. E.</p> <p>SECTION</p> <p>COUNTY</p> <p>TOTAL SHEETS</p> <p>SHEET NO.</p> </div> </div>									
DRAWN :	REVISED : R. SHAH 10-25-04											
CHECKED :	REVISED : R. SHAH 06-12-06											
DATE : 07-25-00	REVISED : K. SMITH 03-01-22											
PLOT SCALE = 100,000' / IN. PLOT DATE = 20200202			SCALE: NONE SHEET 3 OF 1 SHEETS STA. TO STA.									
			B5050-01 (B0-07) CONTRACT NO.									



SECTION
(WITH 4" MIN. CLEARANCE BETWEEN PIPES)

CONCRETE ENCASEMENT DETAIL

[illegible]

ISSUE DATE:	NOVEMBER 11, 2022
SOLICITATION NO.:	W912P6-23-B-0002
CONTRACT NO.:	

DRAWN BY:	
DPP	
CHECKED BY:	
CSG	
SUBMITTED BY:	
DPP	
SIZE:	

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE STREET
CHICAGO, ILL. 60606

SUITE 1500
CHICAGO, IL 60604

Villanova

Nicholls Park

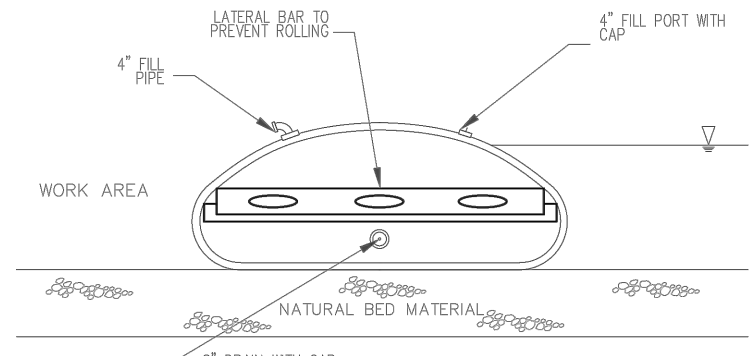
DETAILS - 3

SHEET ID

C-024

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BLADDER COFFERDAM



COFFERDAM PROFILE

PLAN VIEW

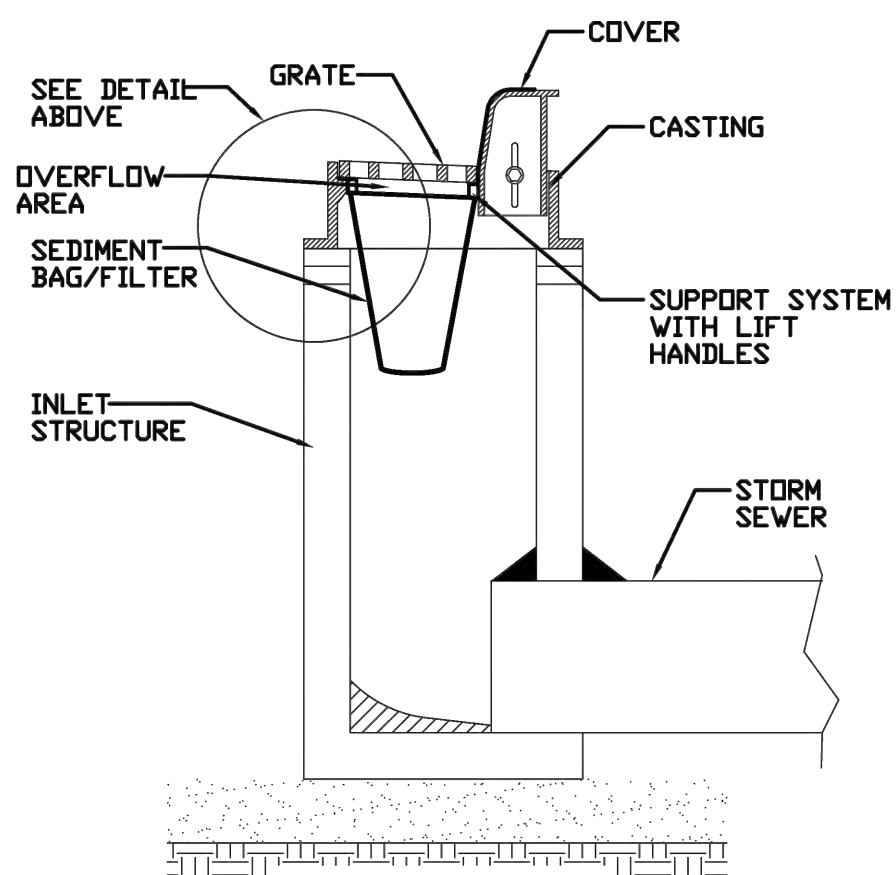
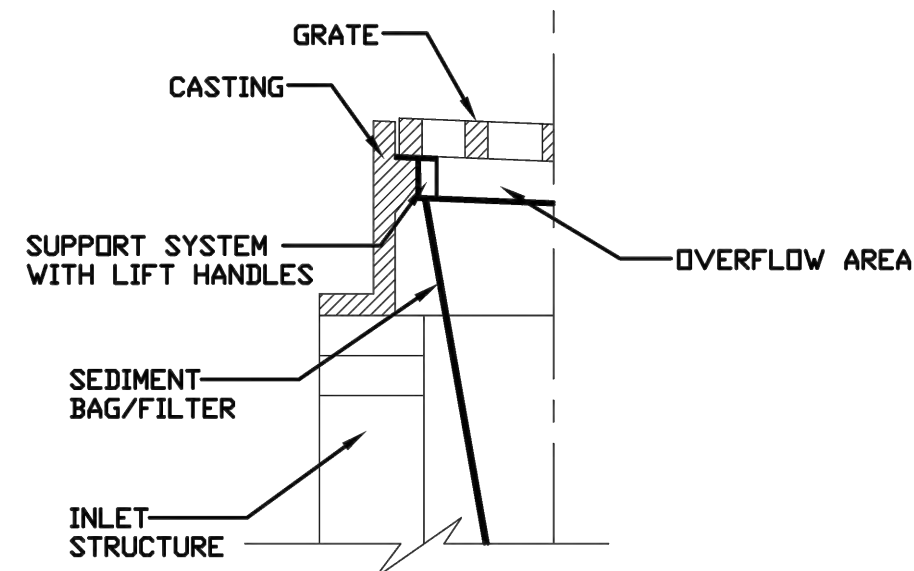
- NOTES:
1. ALL DISCHARGES SHOULD BE ON ENERGY DISSIPATING SURFACES.
 2. LOCATIONS FOR THE SUMP PIT, FILTRATION AREA, AND ENERGY DISSIPATING SURFACES MAY VARY DEPENDING ON SITE CONDITIONS.

REFERENCE	Project	Date
	Designed	Date
	Checked	Date
	Approved	Date



STANDARD DWG. NO.	IUM-503BF
SHEET	3 OF 7
DATE	7-09-2012

INLET PROTECTION - PAVED AREAS DROP-IN PROTECTION



REFERENCE	Project	Date
	Designed	Date
	Checked	Date
	Approved	Date



STANDARD DWG. NO.	IUM-561D
SHEET	1 OF 1
DATE	01-11-11

PLAN VIEW

BARRIER WALL ANCHOR SECTION

SIGN DETAIL

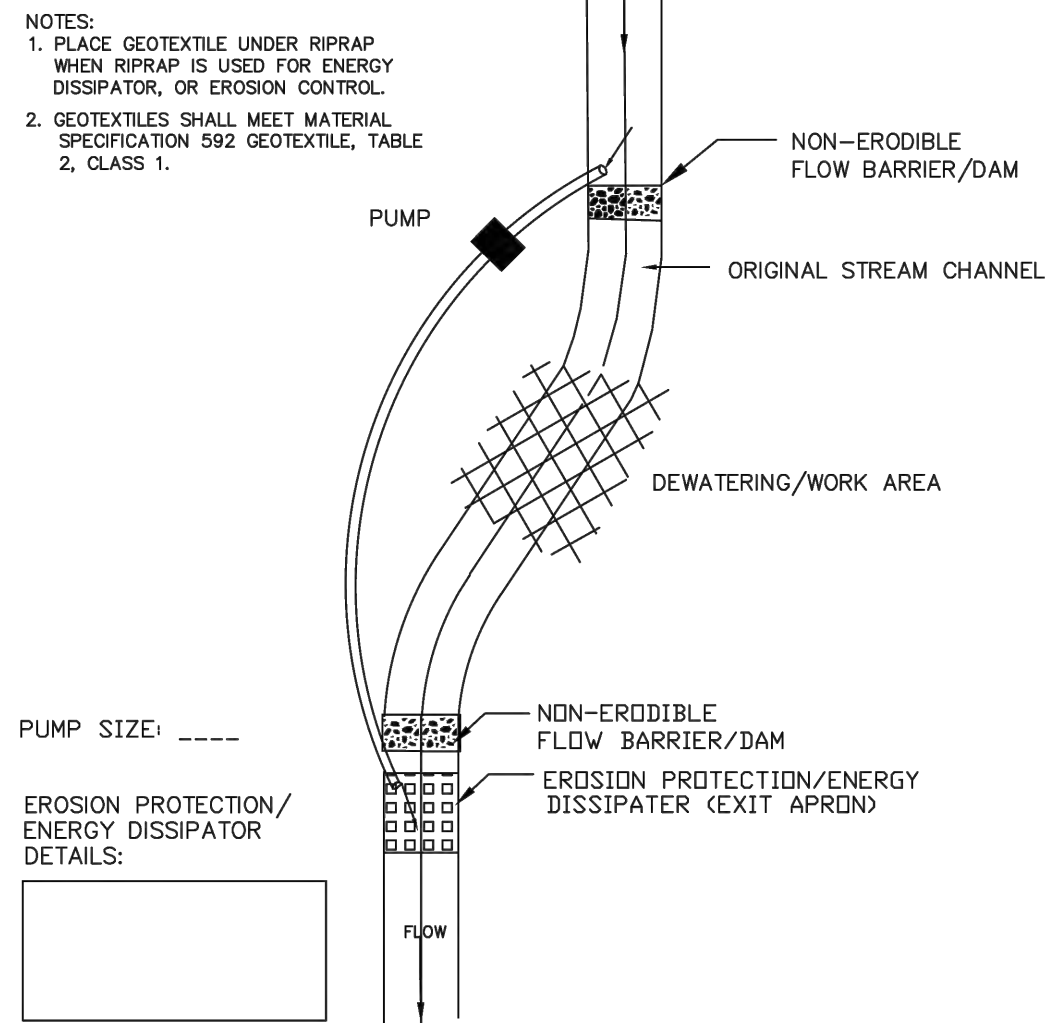
NOTES:

1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardened concrete and/or slurry and returning the facilities to a functional condition.
2. Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.

TEMPORARY CONCRETE WASHOUT FACILITY - BARRIER WALL

Designed	_____	Date	_____
Drawn	_____	Checked	_____
Checked	_____	Approved	_____

TEMPORARY STREAM DIVERSION - BYPASS PUMP



PUMP SIZE: _____

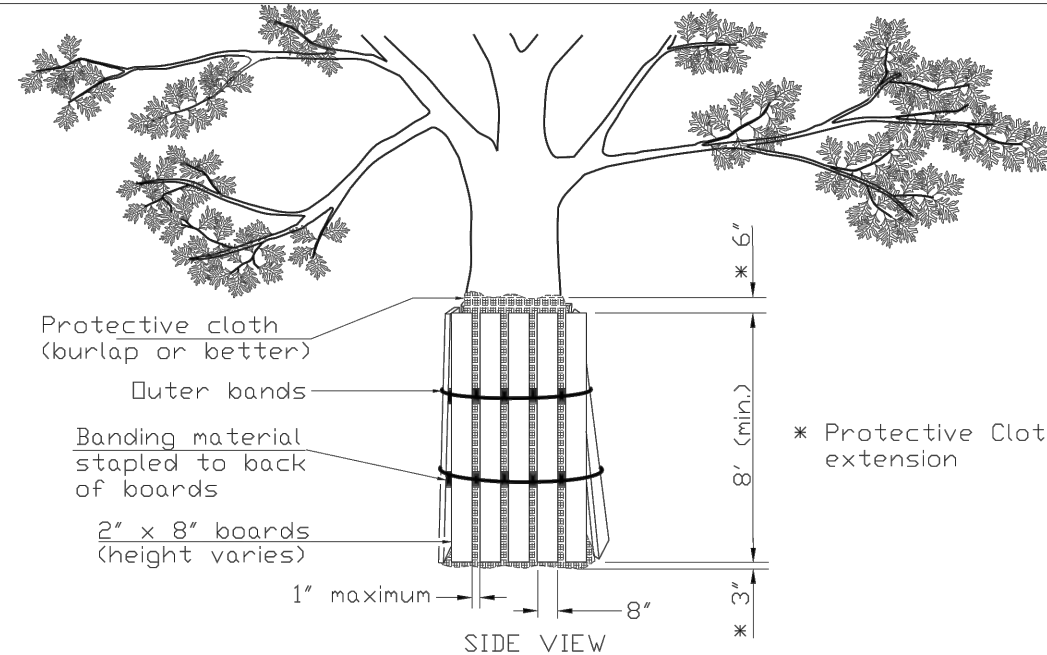
EROSION PROTECTION/
ENERGY DISSIPATOR
DETAILS:

REFERENCE	Project	Date
	Designed	Date
	Checked	Date
	Approved	Date



STANDARD DWG. NO.	IUM-676BP
SHEET	1 OF 1
DATE	7-09-2011

TREE TRUNK PROTECTION



Notes

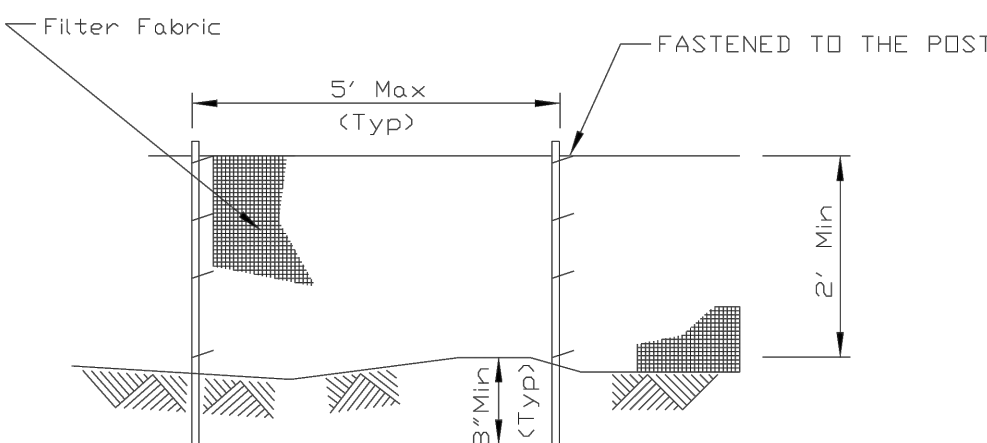
1. The contractor shall provide 2' x 8' boards banded continuously around each trunk with a protective cloth (such as burlap or better) placed between the boards and the tree to prevent scarring of the tree being protected. The height of the boards is variable due to height of tree being protected. Trees to be protected shall be shown in the plans or designated by the Professional Forester or Certified Arborist.
2. The protective cloth shall extend past both the top and bottom of the boards as shown in the detail. Width of wrap material varies for fabric that does not meet the required height, fabric shall overlap a minimum of 6' and shall be spliced to avoid slippage.

REFERENCE	Project	Date
	Designed	Date
	Checked	Date
	Approved	Date

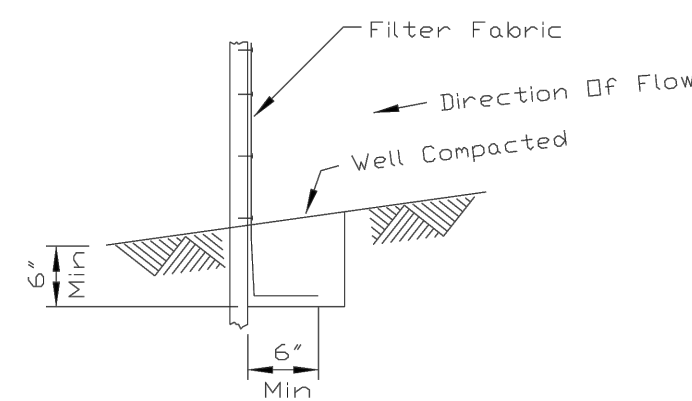


STANDARD DWG. NO.	IUM-690-C
SHEET	1 OF 1
DATE	09-14-2017

SILT FENCE PLAN



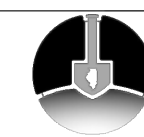
ELEVATION



FABRIC ANCHOR DETAIL

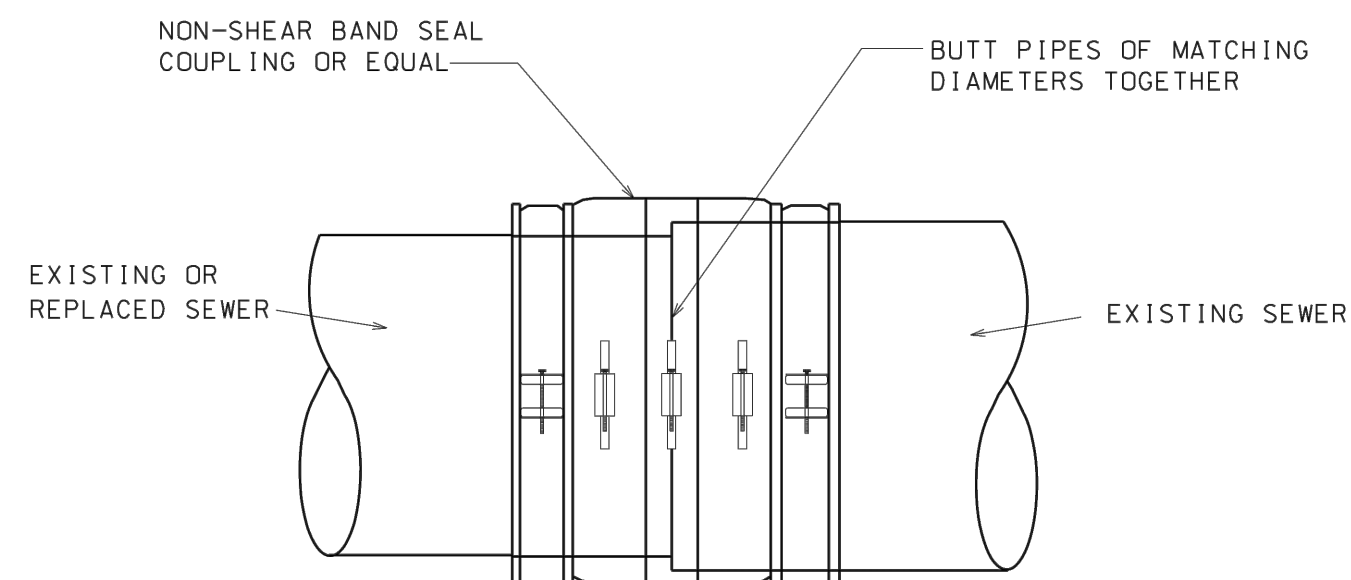
- NOTES:
1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
 2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1, Class 2.
 3. Fence posts shall be either standard steel post or wood post 2" X 2" nominal.

REFERENCE	Project	Date
	Designed	Date
	Checked	Date
	Approved	Date



STANDARD DWG. NO.	IUM-620A
SHEET	1 OF 2
DATE	04-15-2021

U-23



NOT TO SCALE

PIPE
COUPLING
DETAIL

REVISED: 3-15-22



US Army Corps
of Engineers®

ISSUE DATE:
NOVEMBER 11, 2022

PROJECT NO.:
SOLUTION NO.:

CONTRACT NO.:

DRAWN BY:
DPP

CHECKED BY:
CSG

SUBMITTED BY:
DPP

SIZE:

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LA SALLE STREET
CHICAGO, IL 60604



DETAILS - 4

SHEET ID

C-025

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SYMBOLS

- Work area
- Sign on portable or permanent support
- Barricade or drum
- Cone, drum or barricade
- Type III barricade
- Detectable pedestrian channelizing barricade

GENERAL NOTES

This Standard is used where, at any time, pedestrian traffic must be rerouted due to work being performed.

This Standard must be used in conjunction with other Traffic Control & Protection Standards when roadway traffic is affected.

Temporary facilities shall be detectable and accessible.

The temporary pedestrian facilities shall be provided on the same side of the closed facilities whenever possible.

The SIDEWALK CLOSED / USE OTHER SIDE sign shall be placed at the nearest crosswalk or intersection to each end of the closure. Where the closure occurs at a corner, the signs shall be erected on the corners across the street from the closure. The SIDEWALK CLOSED signs shall be used at the ends of the actual closures.

Type III barricades and R11-2-4830 signs shall be positioned as shown in "ROAD CLOSED TO ALL TRAFFIC" detail on Standard 701901.

All dimensions are in inches (millimeters) unless otherwise shown.

SIDEWALK DIVERSION

SIDEWALK CLOSURE

REVISIONS

DATE	REVISIONS
4-1-16	Omitted orange safety fence from standard as this is covered in the std. spec.
1-1-12	Added SIDEWALK DIVERSION. Modified appearance of plan views. Renamed Std.

STANDARD 701801-06

(Sheet 1 of 2)

SYMBOLS

- Work area
- Sign on portable or permanent support
- Barricade or drum
- Cone, drum or barricade
- Type III barricade
- Detectable pedestrian channelizing barricade

GENERAL NOTES

This Standard is used where, at any time, pedestrian traffic must be rerouted due to work being performed.

This Standard must be used in conjunction with other Traffic Control & Protection Standards when roadway traffic is affected.

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Type III barricades and R11-2-4830 signs shall be positioned as shown in "ROAD CLOSED TO ALL TRAFFIC" detail on Standard 701901.

All dimensions are in inches (millimeters) unless otherwise shown.

CORNER CLOSURE

CROSSWALK CLOSURE

REVISIONS

DATE	REVISIONS
4-1-16	Omitted orange safety fence from standard as this is covered in the std. spec.
1-1-12	Added SIDEWALK DIVERSION. Modified appearance of plan views. Renamed Std.

STANDARD 701801-06

(Sheet 2 of 2)

SYMBOLS

- Work area
- Sign on portable or permanent support
- Barricade or drum
- Cone, drum or barricade
- Type III barricade
- Detectable pedestrian channelizing barricade

GENERAL NOTES

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement requiring the closure of one traffic lane in an urban area.

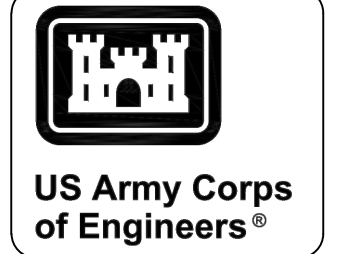
All dimensions are in inches (millimeters) unless otherwise shown.

URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED

REVISIONS

DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to English (metric). Corrected sign No.'s.

STANDARD 701501-06



U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LA SALLE STREET
SUITE 1300
CHICAGO, IL 60604

Village of Richton Park

ISSUE DATE: NOVEMBER 11, 2022
NO. 1
DATE: NOVEMBER 11, 2022
DESCRIPTION: URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
MARK: C-027

DETAILS - 6

SHEET ID
C-027

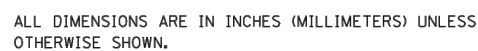
ISSUE DATE:	NOVEMBER 11, 2022
SOLICITATION NO.:	W912P6-23-B-0002
CONTRACT NO.:	

S. LASALLE STREET

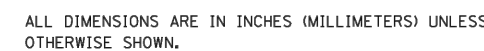


DETAILS - 7

SHEET ID
C-028



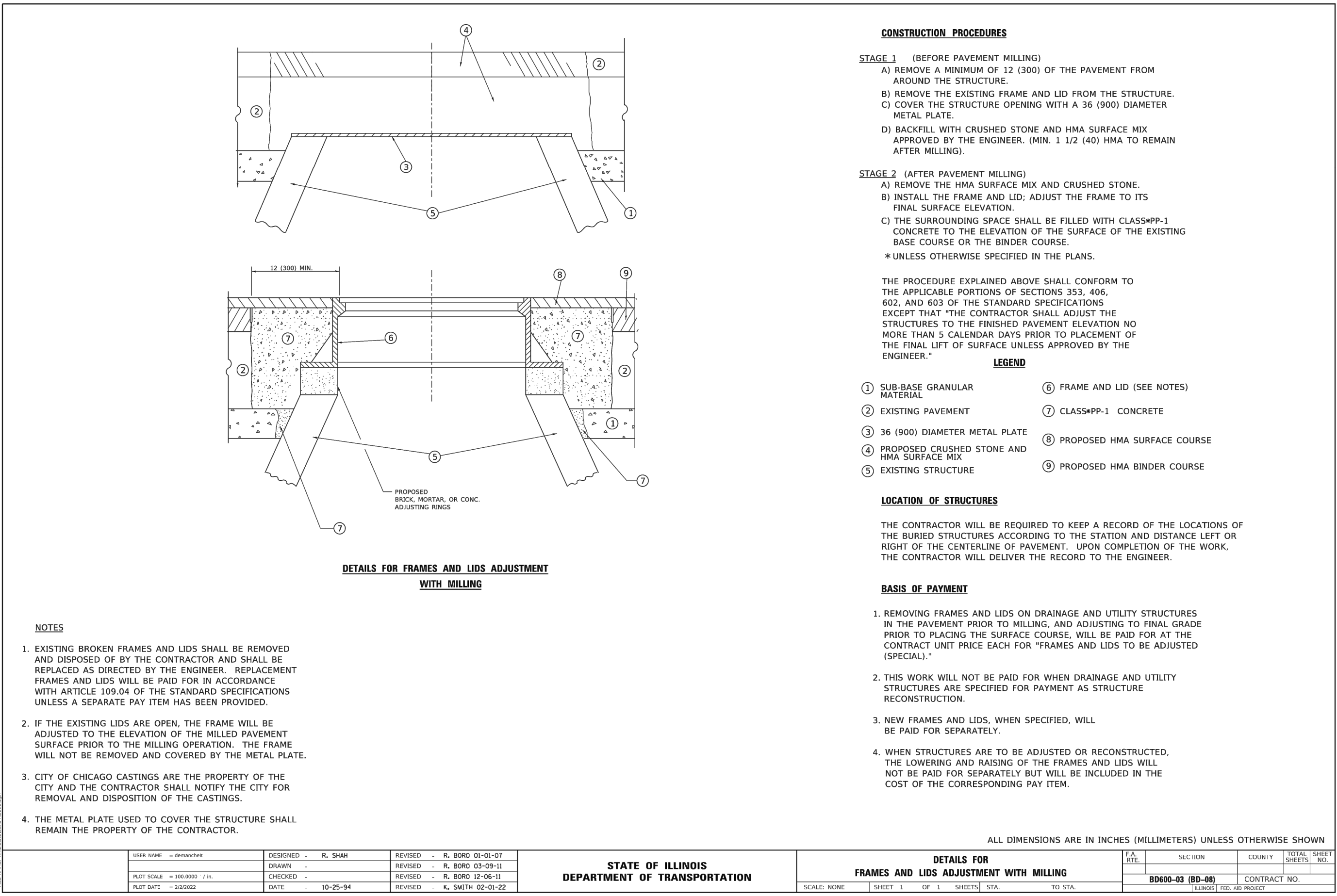
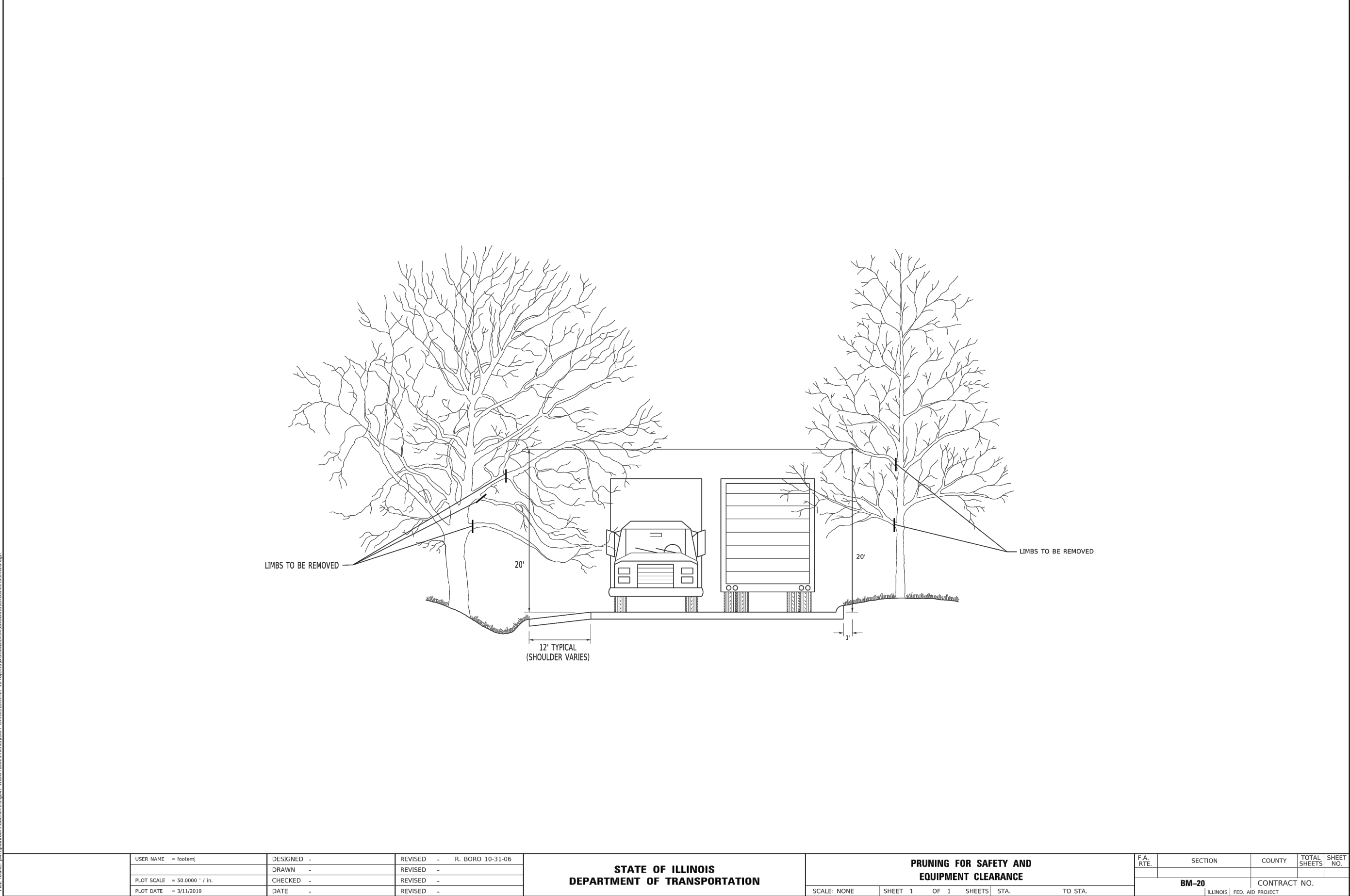
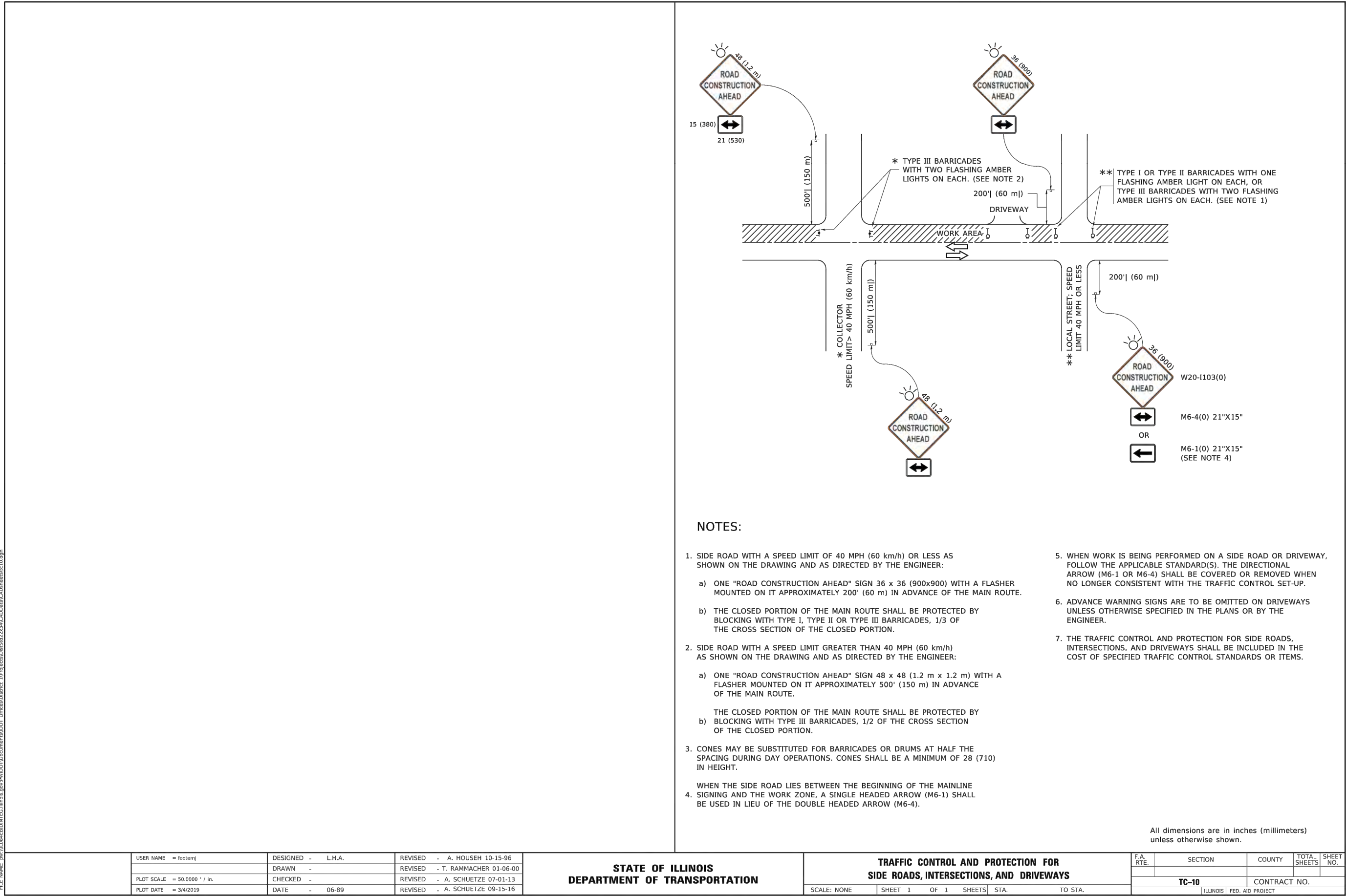
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SH NO.
BD400-05 BD-32		CONTRACT NO.		
		ILLINOIS	FEED. AID PROJECT	



BUTT JOINT AND
HMA TAPER DETAIL

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US Army Corps of Engineers®

ISSUE DATE		NOVEMBER 11, 2022	
DRAWN BY:		DPP	
CHECKED BY:		CSG	
SUBMITTED BY:		DPP	
SIZE:		A	
U.S. ARMY CORPS OF ENGINEERS CHICAGO DISTRICT 231 S. LASALLE STREET SUITE 1300 CHICAGO, IL 60604		Village of Richton Park	

DETAILS - 8

SHEET ID
C-029



2-17-2017



GENERAL NOTES

One drain hole shall be provided in each wingwall for end sections of box culverts. The drain hole shall be located within the lower 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.

END SECTION CONCRETE VOLUME

Note: Volume based on end section length of 3'-0" from end of precast box culvert sections and outside face of headwall.

(Sheet 1 of 2)

[illegible]

ISSUE DATE:	NOVEMBER 11, 2022
DRAWN BY:	SOLICITATION NO.: W912P6-23-B-0002
DPP	CONTRACT NO.:
CHECKED BY:	
CSG	
SUBMITTED BY:	
DPP	
SIZE:	

CHICAGO DISTRICT
1 S. LASALLE STREET



CULVERT END SECTION DETAIL

1

C-030

[illegible]

ISSUE DATE:	NOVEMBER 11, 2022	
DRAWN BY:	DPP	SOLICITATION NO.:
CHECKED BY:	CSG	W912P6-23-B-0002
SUBMITTED BY:	DPP	CONTRACT NO.:
SIZE:		

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE STREET

CHICAGO DISTRICT
231 S. LASALLE STREET

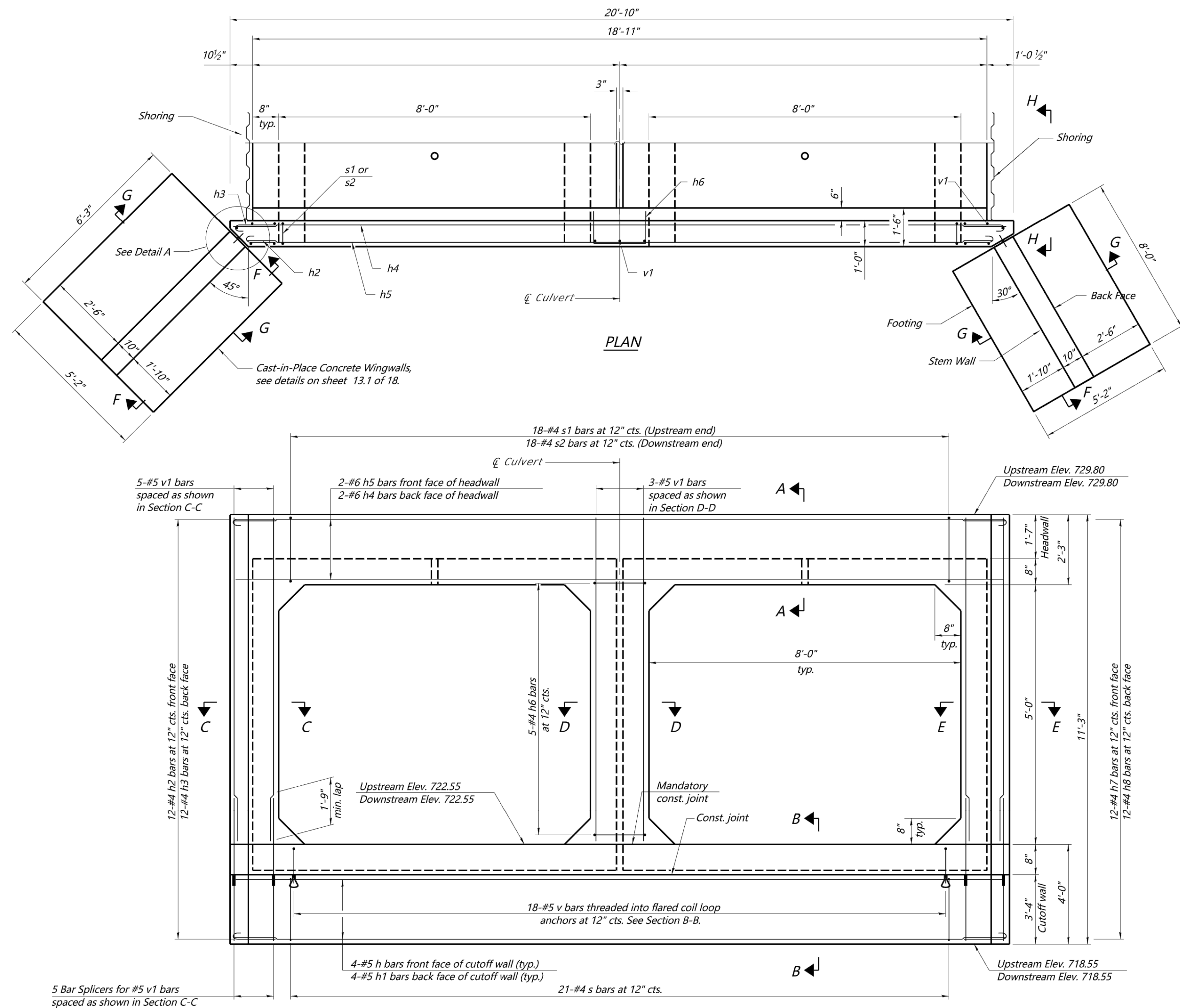
SUITE 1500
CLICACOM IL 60604



CULVERT END SECTION DETAIL

2

SHEET ID
C-03



Note:

The design fill height for this structure is <2 feet.

The precast concrete box culvert sections shall conform to the standard designs of ASTM C 1577.

The box culvert end section shall be built in the field and a precast option is not allowed except the cutoff wall may be precast. If the Contractor elects to use a precast cutoff wall, shop drawings shall be submitted to the Engineer for approval.

Areas of the precast box culvert in contact with cast-in-place concrete shall be sandblasted, cleaned, and wetted prior to placing concrete in the field according to Article 503.09(b).

The ends of the precast box sections adjacent to the end section shall be formed without male and female shapes.

The joints between precast box sections shall be sealed, all voids filled with a mastic joint sealer. In addition, the joints shall be externally sealed on all four sides with a 13 inch wide external sealing band. The seal shall be centered over the joint, secured in place and protected during the backfilling process.

Tilt h2, h3, h7 and h8 bars as required to maintain clearance.

Extend precast concrete box culvert welded wire fabric into end section. Bend as necessary to provide 1" clear cover.

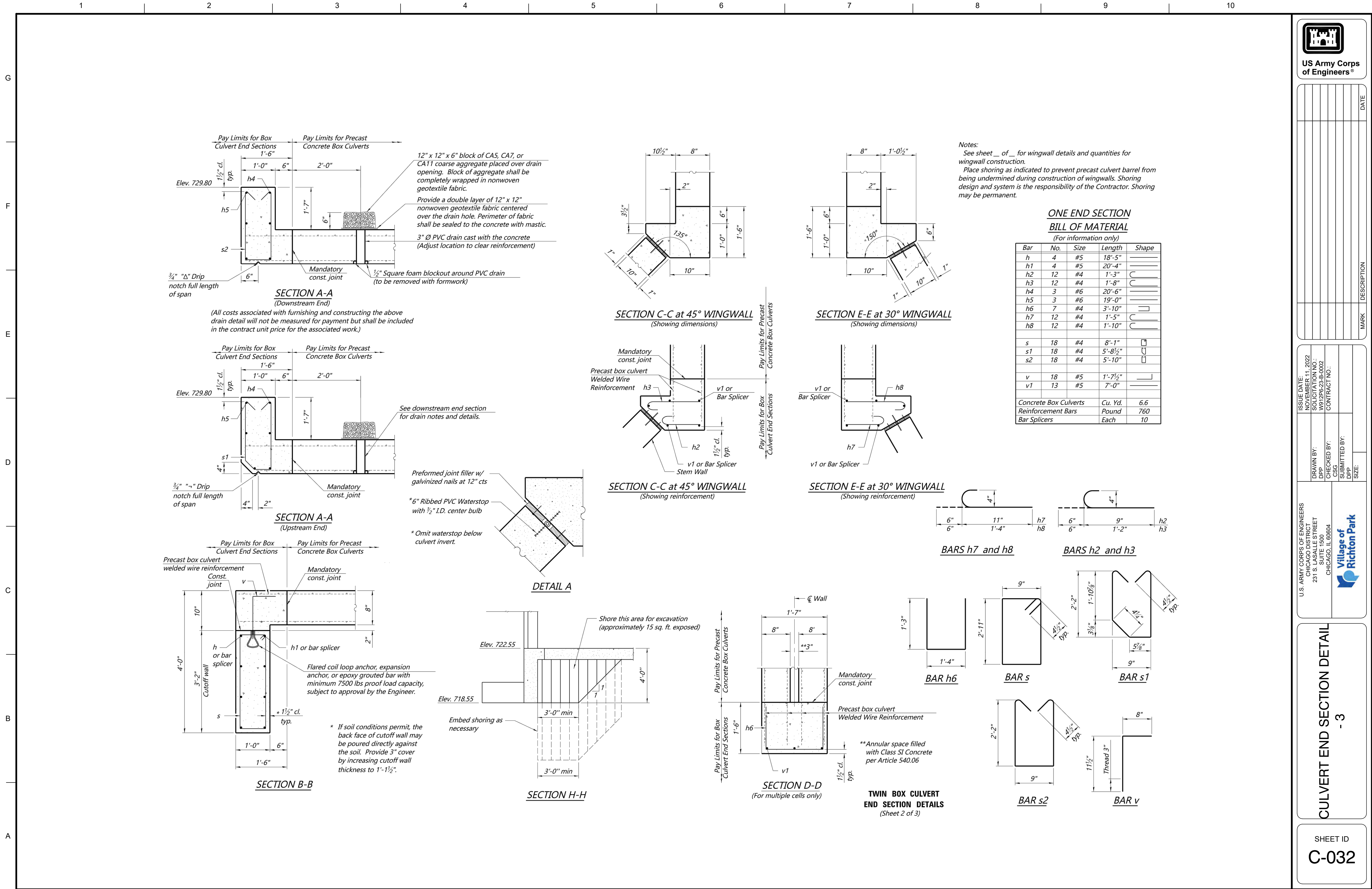
See sheet ___ of ___ for Section A-A, B-B, C-C, D-D, E-E and H-H.

See sheet ___ of ___ for Section F-F and G-G.

BILL OF MATERIAL

<i>Item</i>	<i>Unit</i>	<i>Total</i>
<i>Box Culvert End Sections, Culvert No.</i>	<i>Each</i>	<i>2</i>

**TWIN BOX CULVERT
END SECTION DETAILS**
(Sheet 1 of 3)



[illegible]

DRAWN BY: DPP	CHECKED BY: CSG	SUBMITTED BY: DPP	SIZE:	SOLICITATION NO.: W912P6-23-B-0002	CONTRACT NO.:
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231 S. LASALLE STREET
SUITE 1500
CHICAGO, IL 60604

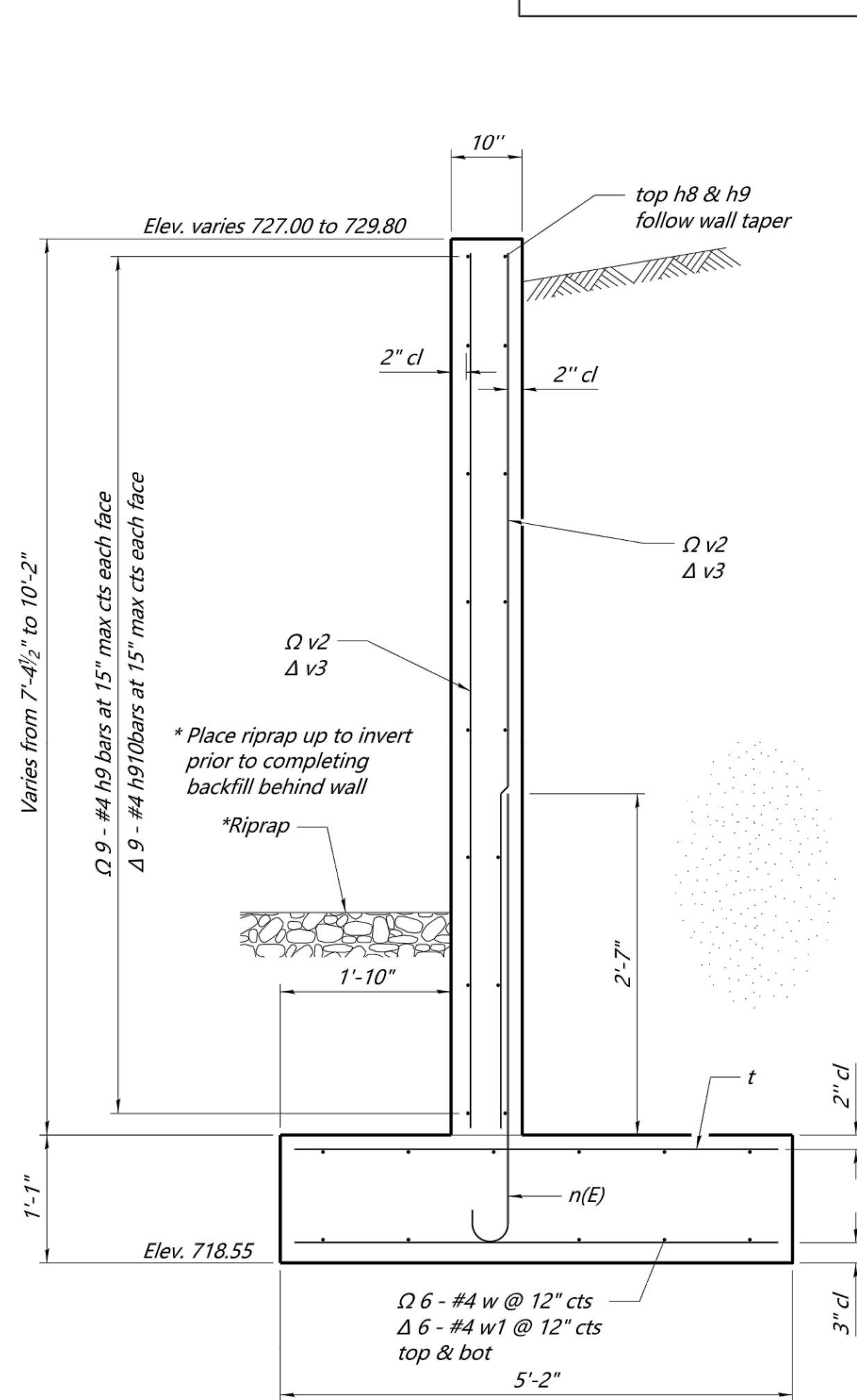


-4-

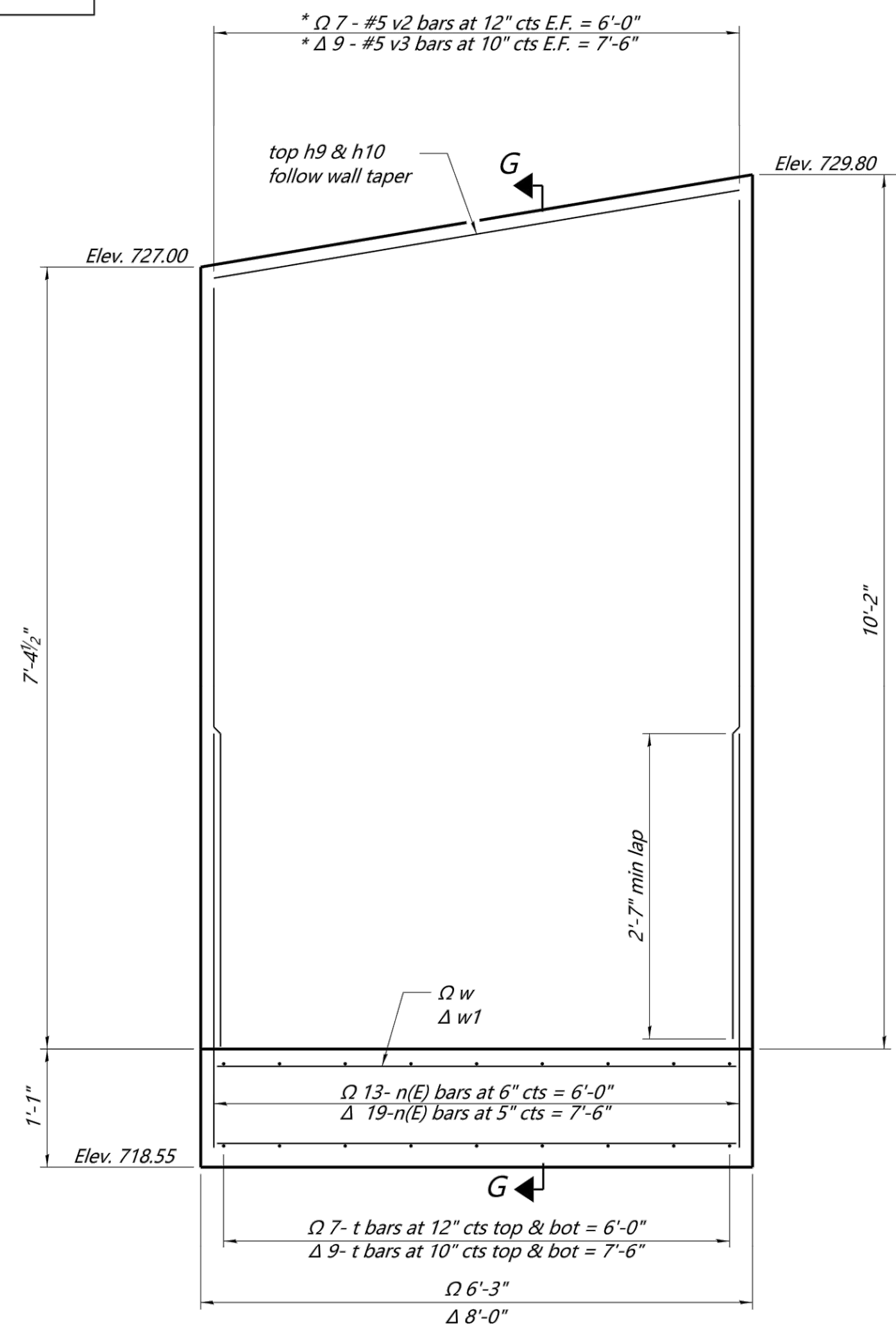
•

033

Note:
 Ω refers to NW and SE wingwalls, 6'-3" long, which are at 45° with respect to the CL of culvert.
 Δ refers to NE and SW wingwalls, 8'-0" long, which are at 30° with respect to the CL of culvert.



SECTION G-G



SECTION F-F

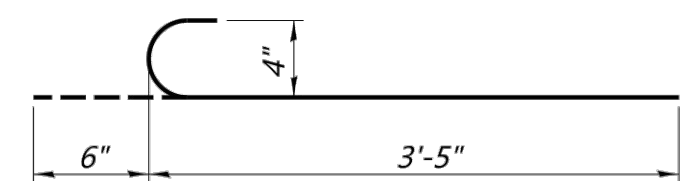
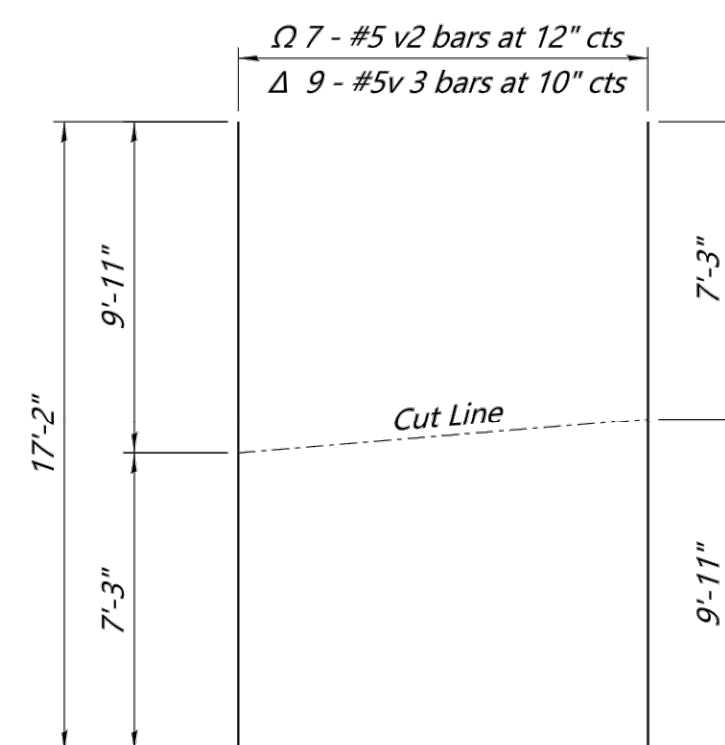
ONE PAIR WINGWALLS

BILL OF MATERIAL

(For information only)

	Bar	No.	Size	Length	Shape
	h9	18	#4	5'-11"	—
	h10	18	#4	7'-8"	—
	t	32	#4	4'-10"	—
	n(E)	32	#4	3'-11"	C
	w	12	#4	5'-11"	—
	w1	12	#4	7'-8"	—
*	v2	7	#5	17'-2"	—
*	v3	9	#5	17'-2"	—
	Concrete Structures			Cu. Yd.	6.8
	Reinforcement Bars			Pound	750
	PVC Waterstop			Foot	20

*See field cutting diagram.


$$\underline{BAR\ n(E)}$$


FIELD CUTTING DIAGRAM

Order v2 & v3 bars full length. Cut as shown and use remainder of bars on opposite face of same wall.

**TWIN BOX CULVERT
END SECTION DETAILS**
(Sheet 3 of 3)