GENERAL NOTES, LISTING OF HIGHWAY STANDARDS AND SEQUENCE OF OPERATIONS

THIS IMPROVEMENT CONSISTS OF EARTH EXCAVATION, REINFORCED CONCRETE BOX

CULVERT CONSTRUCTION, SIDEWALK REMOVAL AND REPLACEMENT, LIGHTING INFRASTRUCTURE, LANDSCAPING AND ALL INCIDENTAL AND COLLATERAL WORK AS NECESSARY TO COMPLETE THE IMPROVEMENT SHOWN HEREIN AND AS DESCRIBED

- SUMMARY OF QUANTITIES
- PLAN, SIGNING AND PAVEMENT MARKING
- DRAINAGE & UTILTIES AND LIGHTING GRADING DETAILS
- CONSTRUCTION DETAILS
- LIGHT POLE FOUNDATION CULVERT GENERAL PLAN & ELEVATION

DESCRIPTION OF IMPROVEMENT

IN THE SPECIFICATIONS.

- CULVERT DETAILS
- RAILING DETAILS
- BORING LOGS
- STORM SEWER CONNECTION TO EXISTING SEWER (BD 07)

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED PLANS FOR A FEDERAL AID HIGHWAY

PEDESTRIAN CULVERT UNDER THE UNION PACIFIC RAILROAD AT NORTHWEST HIGHWAY (U.S. ROUTE 14) AND KENSINGTON ROAD

SECTION NO. 05-00180-00-BR

PROJECT NO. CMM-8003 (546)

CULVERT CONSTRUCTION

COOK COUNTY

JOB NO. C-91-072-06

PROJECT LOCATION PEDESTRIAN CULVERT STATION 50+00.00 DOT NO. 176922D

MP 22.05 - HARVARD SUBDIVISION

PROJECT IS LOCATED IN THE VILLAGE OF ARLINGTON HEIGHTS

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

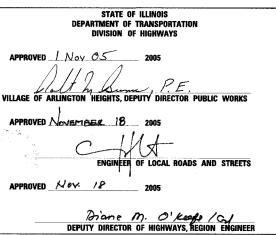
CONTRACT NO. 83822

ARLINGTON HEIGHTS COOK COUNTY, ILLINOIS PROJECT LENGTH = 400 FEET (0.08 MILES)

LOCATION MAP

05-00180-00-BR COOK FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT CONTRACT NO. 83822





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Kabut L. Peters 11/01/05 TRANSYSTEMS CORPORATION ROBERT L. PETERS, PE, SE NO. 081-04697 EXP. DATE 11/30/06



SCOTT D. CHOPM. 11-1-05 TRANSYSTEMS CORPORATION SCOTT D. CZAPLICKI, PE NO. 062-053236 EXP. DATE 11/30/07

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2002, THE DETAILS IN THESE PLANS, AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- 2. CONTRACTOR SHALL NOTIFY JOHN KLEIN WITH UNION PACIFIC RAILROAD AT LEAST 72 HOURS IN ADVANCE OF BEGINNING WORK AT (312) 496-4727. COORDINATION WITH THE UNION PACIFIC COMMUNICATIONS DEPARTMENT AT (800) 336-9193 SHALL BEGIN UPON CONTRACT AWARD AND TO OBTAIN A FIBER OPTIC LOCATE PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN A UNION PACIFIC ENTRY PERMIT TO PERFORM CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL ACCOUNT FOR WORKING WITH THE UNION PACIFIC RAILROAD CONCURRENTLY DURING CONSTRUCTION.
- 4. THE COST OF ALL PERMITS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICES OF THE CONTRACT.
- 5. THE CONTRACTOR SHALL NOTIFY BOB BURNS WITH PUBLIC WORKS AT (847) 368-5800 AT LEAST 72 HOURS IN ADVANCE OF BEGINNING WORK AND SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH THE ENGINEER. SPECIAL ATTENTION IS CALLED TO ARTICLE 105.07 OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND PROTECTION.
- 6. THE CONTRACTOR SHALL CALL "JULIE" 48 HOURS IN ADVANCE AT 1-800-892-0123 FOR FIELD LOCATIONS OF UTILITIES. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES BEFORE STARTING ANY EXCAVATION,
- 7. THE LOCATION OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE
 AND THE VILLAGE DOES NOT GUARANTEE THEIR ACCURACY. THE CONTRACTOR WILL BE REQUIRED
 TO ASCERTAIN THE EXACT LOCATIONS OF SUCH FACILITIES SO AS NOT TO DAMAGE THEM.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OR DESTRUCTION OF PUBLIC OR PRIVATE PROPERTY, AND SHALL RESTORE SUCH PROPERTY AT HIS OWN EXPENSE IN ACCORDANCE WITH ARTICLE 107.20 OF THE STANDARD SPECIFICATIONS. COORDINATION OF ALL KNOWN UTILITY WORK INVOLVED IN THE CONSTRUCTION AREA WILL BE DISCUSSED AT A PRECONSTRUCTION CONFERENCE. THE CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONS AND PROTECTIVE MEASURES REQUIRED TO MAINTAIN EXISTING UTILITIES, SEWERS, AND APPURTENANCES THAT MUST BE KEPT IN OPERATION. IN PARTICULAR, THE CONTRACTOR SHALL TAKE ADEQUATE MEASURES TO PREVENT THE UNDERMINING OF UTILITIES AND SEWERS WHICH ARE STILL IN SERVICE.
- 9. THE CONTRACTOR SHALL NOT REMOVE ANY UTILITY LINE, CONDUIT OR VAULT WITHIN THE LIMITS OF THE PROJECT UNTIL AFTER RECEIVING WRITTEN PERMISSION FROM THE UTILITY COMPANY OR AGENCY INVOLVED AND PERMISSION FROM THE ENGINEER.
- 10. WHENEVER THE CONTRACTOR ENCOUNTERS FACILITIES AND APPURTENANCES WITHIN THE LIMITS OF THE IMPROVEMENTS DURING TRENCHING OPERATION, HE WILL BE REQUIRED TO HAND TRENCH IN THAT AREA IN ORDER NOT TO DAMAGE THE FACILITIES.
- 11. ANY LOOSE MATERIAL THAT IS DEPOSITED DURING CONSTRUCTION INTO ANY DRAINAGE STRUCTURE THAT RESULTS IN THE OBSTRUCTION OF FLOW SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF OPERATIONS, ALL DRAINAGE STRUCTURES (EXISTING AND PROPOSED) WITHIN THE PROJECT LIMITS SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT PRICES OF THE CONTRACT.
- 12. THE COST OF CONNECTING EXISTING STORM SEWERS TO THE PROPOSED DRAINAGE
 SYSTEM AND CONNECTING PROPOSED STORM SEWER TO EXISTING STRUCTURES SHALL
 BE INCLUDED IN THE UNIT PRICES OF THE CONTRACT. HOWEVER, THE NECESSARY PIPE USED
 WILL BE PAID FOR AT THE CONTRACT UNIT PRICE "STORM SEWER" OF THE SIZE REQUIRED.
- 13. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN EXISTING APPURTENANCES ALONG NORTHWEST HIGHWAY AND DAVIS STREET, BOTH ROADWAYS SHALL BE KEPT CLEAN AND FREE OF DEBRIS TO THE SATISFACTION OF THE ENGINEER, THIS WORK SHALL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT PRICES OF THE CONTRACT.
- 14. THE CONTRACTOR WILL BE REQUIRED TO DISPOSE ALL MATERIAL EXCAVATED OR REMOVED DUE TO CONSTRUCTION OPERATIONS, AT HIS EXPENSE. ALL EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM SITE ON THE DAY IT IS EXCAVATED. NO PAYMENT WILL BE MADE FOR HAULING OR TRUCKING MATERIAL TO LOCATIONS, PROVIDED BY THE CONTRACTOR, OUTSIDE THE LIMITS OF THE IMPROVEMENT.
- 15. THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO WEIGHTED SAND BAGS ON EACH TYPE I OR TYPE II BARRICADE USED AT ALL LOCATIONS WITHIN THE PROJECT LIMITS. ONE SAND BAG SHALL BE PLACED ON EACH BOTTOM RAIL.
- 16. QUANTITIES OF TREE TRUNK PROTECTION, TREE PRUNING AND TREE ROOT PRUNING HAVE BEEN INCLUDED IN THE SUMMARY OF QUANTITIES FOR CARE AND PROTECTION OF EXISTING PLANT MATERIAL.
- 17. ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION OPERATIONS SHALL BE SODDED UPON COMPLETION OF ALL GRADING OPERATIONS. THIS WORK SHALL BE PAID FOR AS SODDING, SALT TOLERANT.
- 18. FULL DEPTH SAW CUTS SHALL BE PROVIDED FOR ALL REMOVAL ITEMS. THE COST SHALL BE INCLUDED IN THE COST OF THE ITEM BEING REMOVED.

GENERAL NOTES CON'T

- 19. INLET & PIPE PROTECTION SHALL BE USED AT THE DISCRETION OF THE ENGINEER TO PREVENT SEDIMENT FROM ENTERING THE ENCLOSED SEWER SYSTEM.
- 20. REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL SHALL BE REPLACED WITH AGGGREGATE BASE COURSE, TYPE B WITHIN THE LIMITS OF THE CULVERT. POROUS GRANULAR EMBANKMENT SHALL BE USED ELSEWHERE. THE PROPOSED PROCEDURES AND EXTENT OF REMOVAL OF UNSUITABLE MATERIAL FOR THE CULVERT, OR IN ANY LOCATION THAT MAY AFFECT THE STABILITY OF THE EXISTING ABUTMENTS, SHALL BE SUBMITTED TO THE ENGINEER AND UPRR FOR REVIEW AND APPROVAL.
- 21. QUANTITIES FOR TEMPORARY FENCE AND TEMPORARY CHAIN LINK FENCE HAVE BEEN INCLUDED TO RESTRICT ACCESS WITHIN THE PROJECT LIMITS. THE TEMPORARY CHAIN LINK FENCE SHALL BE USED AT THE DISCRETION OF THE ENGINEER TO CLOSE OFF THE ENDS OF THE CULVERT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO RESTRICT ACCESS.
- 22. THE CONTRACTOR SHALL PROVIDE ADEQUATE PLIMPS TO DRAIN THE PROJECT AREA.
- 23. FLAGGING WILL BE REQUIRED FOR ANY WORK WITHIN 25 FT. OF ANY TRACK OR AS OTHERWISE REQUIRED BY THE UPRR SPECIAL PROVISIONS. THIS WORK SHALL BE PAID FOR AS RAILROAD FLAGMEN.

SEQUENCE OF OPERATIONS

- 1. TRACK AND BRIDGE RAISE BY UPRR. CONSTRUCT WINGWALL EXTENSIONS.
- 2. IMPLEMENT TRAFFIC CONTROL MEASURES AS REQUIRED
- 3. INSTALL TEMPORARY ABUTMENT BRACING
- 4. INITATE EARTH EXCAVATION, REMOVALS AND RELOCATIONS
- 5. INSTALL INLET, STORM SEWER AND CONDUIT
- 6. CONSTRUCT REINFORCED CONCRETE BOX CULVERT
- 7. CONSTRUCT SIDEWALK, CURB WALLS AND LIGHTING FOUNDATIONS
- 8. INSTALL PEDESTRIAN RAILING AND CHAIN LINK FENCE
- 9. COMPLETE LANDSCAPING
- 10. LIGHT POLE, LUMINAIRE AND WIRING BY VILLAGE
- 11. EXISTING BRIDGE GIRDER REMOVAL AND PLACEMENT OF BALLAST ON TOP OF CULVERT BY UPRR.

TRAFFIC CONTROL NOTES

- ALL TRAFFIC CONTROL MEASURES SHALL BE PAID PER TRAFFIC CONTROL STANDARDS 701501, 701606 AND 701801. THE COST OF SUPPLYING, ERECTING, AND MAINTAINING BARRICADES, DRUMS, WARNING LIGHTS, AND SIGNS SHALL BE INCLUDED IN TRAFFIC CONTROL STANDARDS. QUANTITIES FOR PAVEMENT MARKING TAPE, AND WORK ZONE PAVEMENT MARKING REMOVAL SHALL BE MEASURED SEPARATELY FOR PAYMENT.
- 2. TRAFFIC CONTROL & PROTECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 700; APPLICABLE GUIDELINES IN THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS; AND APPLICABLE HIGHWAY STANDARDS FOR TRAFFIC CONTROL, UNLESS HEREIN REVISED.
- 3. PERMANENT LANE CLOSURES ALONG NORTHWEST HIGHWAY WILL NOT BE ALLOWED. SHORT TIME CLOSURES FROM 9 A.M. TO 3 P.M SHALL BE APPROVED BY THE ENGINEER. TEMPORARY LANE CLOSURES SHALL BE PERFORMED ACCORDING TO IDOT HIGHWAY STANDARD 701606.
- 4. TWO-WAY TRAFFIC SHALL BE MAINTAINED ALONG DAVIS STREET AT ALL TIMES EXCEPT FOR SHORT PERIODS WHEN APPROVED BY THE ENGINEER. TEMPORARY LANES CLOSURES SHALL BE PERFORMED ACCORDING TO IDOT HIGHWAY STANDARD 701301.
- 5. THE ENGINEER SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF ANY CHANGE IN STAGING.
- 6. ALL SIGNS SHALL BE MOUNTED ON METAL POSTS, 7 FEET ABOVE THE EXISTING GROUND AND DRIVEN A MINIMUM OF 3 FEET INTO THE GROUND. A J.U.L.I.E. LOCATE SHALL BE PERFORMED PRIOR TO THE INSTALLATION OF THE POSTS.
- 7. EXISTING TRAFFIC CONTROL SIGNS AND DEVICES SHALL BE REMOVED OR RELOCATED BY THE CONTRACTOR AFTER THE TRAFFIC CONTROL REQUIREMENTS ARE MET OR AS AUTHORIZED BY THE ENGINEER; ANY SIGNS OR DEVICES LEFT IN PLACE ARE TO BE PROTECTED FROM DAMAGE AND MAINTAINED.
- 8. TYPE I OR TYPE II BARRICADES WITH TWO WAY FLASHING LIGHTS SHALL BE REQUIRED AT ALL OPEN TRENCHES, EXCAVATIONS, OPEN OR EXPOSED SEWER STRUCTURES, TRANSVERSE PAVEMENT JOINTS, MATERIAL STOCKPILES AND ON EQUIPMENT WITHIN THE RIGHT OF WAY (NUMBER AND SPACING DEPENDANT ON THE CONDITIONS); AND AT LOCATIONS DESIGNATED BY THE FINGINEER.

LISTING OF HIGHWAY STANDARDS

F.A.U. RTE.	SECTION		COUNTY	SHEETS	SHE
	05-00180-0	0-8R	COOK	14	2
STA.		ΤO	STA.		
FED. RO	AD DIST. NO.	ILLINOIS	FED. AI	D PROJEC	Γ
CONTE	RACT NO. 83	8822			

000001-04 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS

001001 AREAS OF REINFORCEMENT BARS

001006 DECIMAL OF AN INCH AND OF A FOOT 280001-02 TEMPORARY EROSION CONTROL SYSTEMS

424001-04 CURB RAMPS for SIDEWALKS

601001 SUB-SURFACE DRAINS 602301 INLET, TYPE A

602301 INLET, TYPE A 602401 MANHOLE, TYPE A

602406-01 MANHOLE, TYPE A, 1800 MM (72") DIAMETER

602406-01 MANHOLE, TYPE A, 602701 CAST IRON STEPS

604001-02 FRAME AND LIDS, TYPE 1

606001-02 CONCRETE CURB AND COMBINATION CONCRETE CURB AND GUTTER

664001-01 CHAIN LINK FENCE 701301-02 LANE CLOSURE, 2L 2W, SHORT TIME OPERATIONS

701311-02 LANE CLOSURE, 2L 2W, MOVING DAY ONLY OPERATIONS

701501 -03 URBAN LANE CLOSURE, 2L, 2W UNDIVIDED

701606-04 URBAN LANE CLOSURE, MULTILANE 2W WITH MOUNTABLE MEDIAN

701801 - 03 LANE CLOSURE, MULTILANE, 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE

702001-05 TRAFFIC CONTROL DEVICES

720001 SIGN PANEL MOUNTING DETAILS 720006 SIGN PANEL FRECTION DETAILS

ALIGNMENT COORDINATE TABLE

	NO. NORTHING		EASTING	DESCRIPTION
Г	1	1,972,121.5370	1,081,197.4852	POT STA 49+00.00
Г	2	1,972,207.9586	1,081,247.7973	BE TRACKS STA 50+00
1	3	1,972,251.1694	1,081,272.9533	POT STA 50+50.00

CONTROL POINTS

	r			
	NORTHING	STATION		
NO.	EASTING	OFFSET	ELEVATION	DESCRIPTION
BM #54	1,972,341.0079	50+50.26	680.12	1" DIA BRASS DISC IN SOUTHEAST SIDE
	1,081,119.0076	178,12' LT		OF LIGHT POLE CONCRETE BASE 30'±
				SOUTH WEST OF CENTERLINE OF NORTHWEST
				HIGHWAY & 39'± NORTH OF CENTERLINE OF
				KENSINGTON ROAD
BM #58	1,971,663.7864	49+03.27	676.71	1" DIA BRASS DISC ON SOUTH SIDE OF LIGHT
	1,081,990.2631	915.44' RT		POLE CONCRETE BASE AT NORTHWEST CORNER
				OF DAVIS STREET AND BEVERLY LANE

BENCHMARKS

NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
TBM #1	N/A	N/A	677.87	SET "X" IN SIDEWALK ON SOUTH SIDE OF DAVIS STREET AT UNION PACIFIC RAILROAD PEDESTRIAN UNDERPASS CULVERT
TBM #2	N/A	N/A	681.04	SET "X" IN SIDEWALK AT NORTHWEST CORNER OF NORTHWEST HIGHWAY AND KENSINGTON ROAD

ILLINOIS DEPARTMENT OF TRANSPORTATION PEDESTRIAN CULVERT UNDER UNION PACIFIC RAILROAD

> GENERAL NOTES, LISTING OF HIGHWAY STANDARDS AND SEQUENCE OF OPERATIONS



DRAWN BY DMG CHECKED BY SDC

					CONSTRUCTION TYPE CODE CMAQ 80% VILLAGE 20%
ITEM NO.	CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CULVERT X628-2A
1	20101000	TEMPORARY FENCE	FOOT	200	200
2	20101100	TREE TRUNK PROTECTION	EACH	1	1
3	20101200	TREE ROOT PRUNING	EACH	1	1
4	20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	1	1
5	20101400	NITROGEN FERTILIZER NUTRIENT	POUND	3	3
6	20101500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	3	3
7	20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	3	3
8	20200100	EARTH EXCAVATION	CU YD	275	275
9	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	200	200
10	20700220	POROUS GRANULAR EMBANKMENT	CU YD	100	100
11	20800150	TRENCH BACKFILL	CU YD	20	20
12	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	190	190
13	21301084	EXPLORATION TRENCH 84" DEPTH	FOOT	100	100
14	25200110	SODDING, SALT TOLERANT	SQ YD	190	190
15	25200200	SUPPLEMENTAL WATERING	UNIT	2	2
16	28000400	PERIMETER EROSION BARRIER	FOOT	200	200
17	28000510	INLET FILTERS	EACH	1	1
18	35101500	AGGREGATE BASE COURSE, TYPE B	CU YD	250	250
19	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1,400	1,400
20	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	30	30
21	44000600	SIDEWALK REMOVAL ,	SQ FT	950	950
22	44100100	PAVEMENT REPLACEMENT	SQ YD	20	20
23	50102400	CONCRETE REMOVAL	CU YD	18	18.0
24	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	30,900	30,900
25	55100500	STORM SEWER REMOVAL 12"	FOOT	28	28
26	60107700	PIPE UNDERDRAINS 6"	FOOT	80	80
27	60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	1	1
28	60500060	REMOVING INLETS	EACH	1	1
29	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	30	30
30	63200310	GUARDRAIL REMOVAL	FOOT	27	27
31	66400305	CHAIN LINK FENCE, 6'	FOOT	305	305
32	66410300	CHAIN LINK FENCE REMOVAL	FOOT	335	335
33	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3
34	67100100	MOBILIZATION	L SUM	1	1
• 35	66900205	SPECIAL WASTE DISPOSAL	CU YD	200	150
36	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1
37	70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1
38	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1
39	70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	200	200
40	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	70	70
• 41	72000100	SIGN PANEL - TYPE 1	SQ FT	5	5
• 42	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	1	1

F.A.U. RTE.	SECTION			COUN	ŢΥ	TOTAL	SHEET NO.
	05-00180-0	o-BR		C00	<	14	3
STA.		-	го	STA.			
FEO. RO	AD DIST. NO.	ILLIN	ois	FED.	AIO	PROJECT	
CONTR	RACT NO. 83	822					

ILLINOIS DEPARTMENT OF TRANSPORTATION PEDESTRIAN CULVERT UNDER UNION PACIFIC RAILROAD

SUMMARY OF QUANTITIES

NO SCALE DATE 01/20/06

• INDICATES SPECIALTY ITEM

DRAWN BY JMH CHECKED BY SDC

	CONSTRUCTION
	TYPE CODE
	CMAQ 80%
	VILLAGE 20%
i I	CHLVEDT

F.A.U. RTE.	SECTION			COUN	ΤY	Y TOTAL SHEET SHEETS NO. 14 4	
	05-00180-0	0-BR		COOL	<	14	4
STA.		-	ГО	STA.			
FED. RO	DAD DIST. NO.	ILLIN	ois	FED.	AID	PROJECT	
CONTR	RACT NO. 83	822					

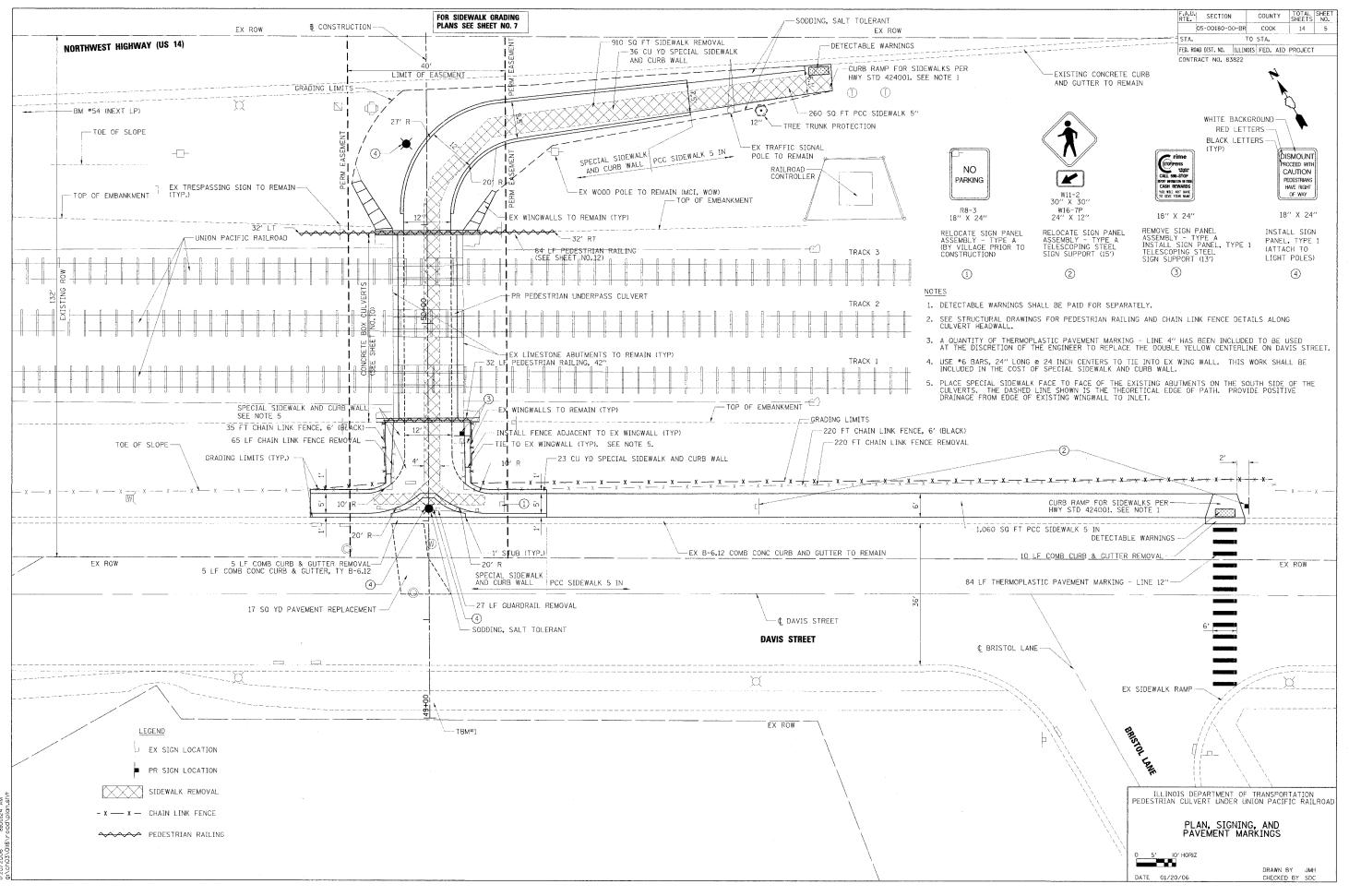
			1	TOTAL	CULVERT
• 43	CODE NO. 72400500	PAY ITEM RELOCATE SIGN PANEL ASSEMBLY - TYPE A	UNIT	QUANTITY 1	X628-2A
• 44	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	28	28
• 45	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	50	50
• 46	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	84	84
47	78300100	PAVEMENT MARKING REMOVAL	SQ FT	17	17
• 48	80700140	CROUND ROD, 5/8" DIA. X 10 FT.	EACH	2	2
• 49	81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	F00T	147	147
• 50	81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	147	147
51	X0323426	SEDIMENT CONTROL, DRAINAGE STRUCTURE INLET FILTER CLEANING	EACH	1	1
52	X0632001	CLEAR PROTECTIVE COATING FOR CONCRETE	SQ FT	2,380	2,380
53	XX001978	RAILROAD FLAGMEN	L SUM	1	1
54	X6640200	TEMPORARY CHAIN LINK FENCE	FOOT	50	50
		RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	
55	Z0048665				1
56	54003000	CONCRETE BGX CULVERTS	EUYD	155	155
57	XX005817	FORMLINER LIMESTONE SURFACE	SQ FT	500	500
• 58	XX006495	LIGHT POLE FOUNDATION, 18" DIAMETER	F00T	8	8
59	50900805	PEDESTRIAN RAILING.	FOOT	104	104
61	XX006496	PORTLAND CEMENT CONCRETE SIDEWALK AND CURB WALL	CU YD	75	75
62	X0324160	CATCH BASIN WITH HALF TRAP, 4' DIAMETER (INCLUDING FRAME AND LID)	EACH	1	1
63	X0322033	STORM SEWER (WATER MAIN REQUIREMENTS) 12"	F00T	40	40
64	42400800	DETECTABLE WARNINGS	SQ FT	24	24
66	XX005195	COMBINED SEWER MANHOLE, 4'DIAMETER TYPE 1 FRAME, CLOSED LTD			
			FACH	1	
		COMBINED SEACH MAINTOCK, 4-DIAMETER THE I FRAME, (20SED 27D	EACH	1	1
<u></u>		COMMINED SEREN MANNEE, 4.034METER THE T PRHME, (20340270	EACH	1	
· · · · · · · · · · · · · · · · · · ·		COMMINED SEACH MANNOCE, 4-DEGIMETER THE FRAME, (20SED 27D	EACH	1	
		COMMINED SENER MARRICEL, 4. DENIMETER THE E PRHIME, (20SED 27D	EACH	1	
		COMBINED SERIN MANNEL, 4. DENIMETER THE E PRHIME, (20SED 27D	EACH	1	
		COMMINED SENER MARRICEL, 4-DEGINETER THE L PRHIME, (20SED 27D	EACH	1	
		COMBINED SENIN MANNOEL, 4. DENIMETER THE E PRHIME, (20SED 27D	EACH	1	1
		COMBINED SCHOOL MANNOCL, 47054METER THE L PRHIME, (2004)	EACH	1	
		COMDINED SENIN MANNOEL, 4 - DENIMETER TIPE I PRHIME, (20) ED 27D	EACH	1	
		COMBINED SCHOOL MANNOCL, 47054METER THE L PRHME, (20)40770	EACH	1	
		COMDINED SERIES MANNOELS, 4 - DEGINETER TIPE I PRHIME, (20) ED 27D	EACH	1	
		COMMINED SERIES MARKINELL, 47 DEFINE LEK LIVE L PRAINE, (ZOSED Z7D	EACH		
		COMDINED SEREN MANNOCE, TADARMETER THE ENGINE (1952)	EACH		
		COMMINGE SERVING MANNOCE, TO PRIME TEXT THE THRUMBER (1905)	EACH		
		COMMUNICO SCHON WANTIOCE, 1- DEFINE THE FRAME, COSEDZED	EACH		
		COMMINDED SERVING THE PROPERTY OF THE PROPERTY	FACH		
		COMMIND SEREN MANUALS, Y-DANNETEK ITE PNAME, COSEDIZED			
		COMDINED SERIES MARKINGE, T-DERING LEN THE L THARDS, (ZONEDZZ)	FACH		
		COMMING OF THE PROPERTY OF THE			

ILLINOIS DEPARTMENT OF TRANSPORTATION PEDESTRIAN CULVERT UNDER UNION PACIFIC RAILROAD

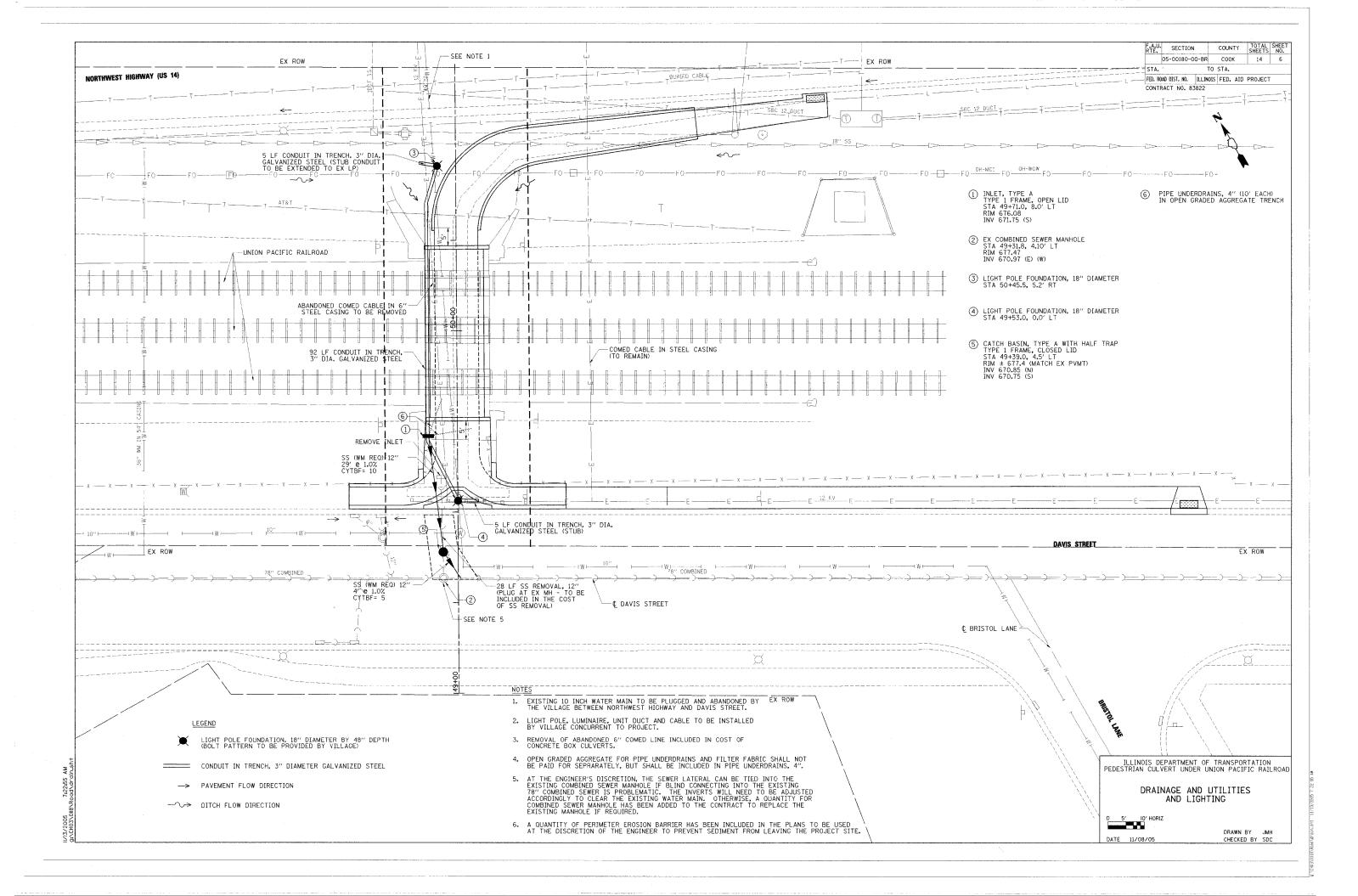
SUMMARY OF QUANTITIES

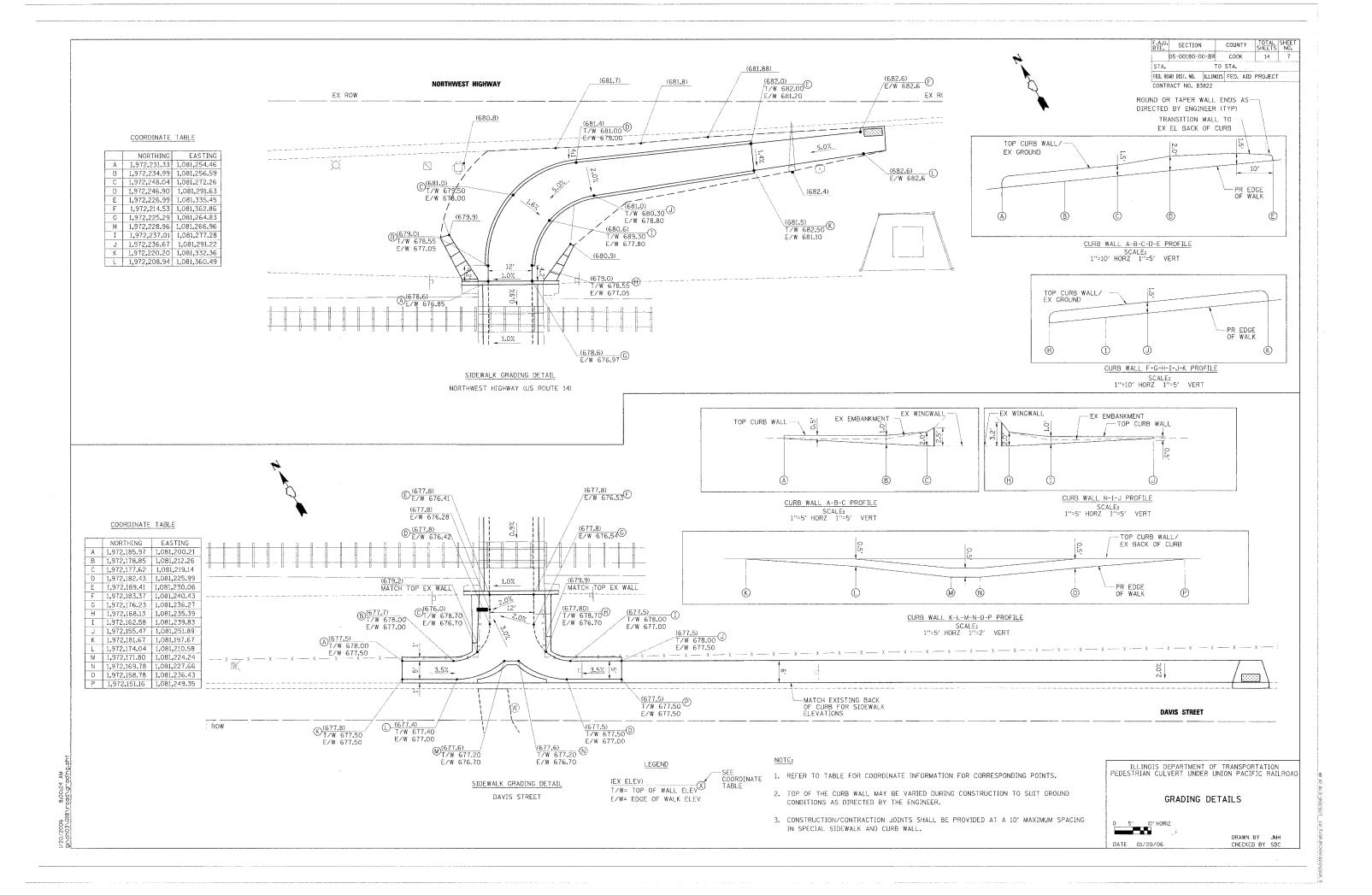
• INDICATES SPECIALTY ITEM

NO SCALE DATE 01/20/06 DRAWN BY JMH CHECKED BY SDC



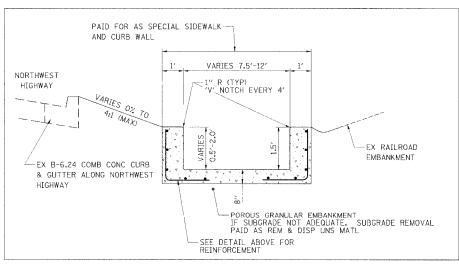
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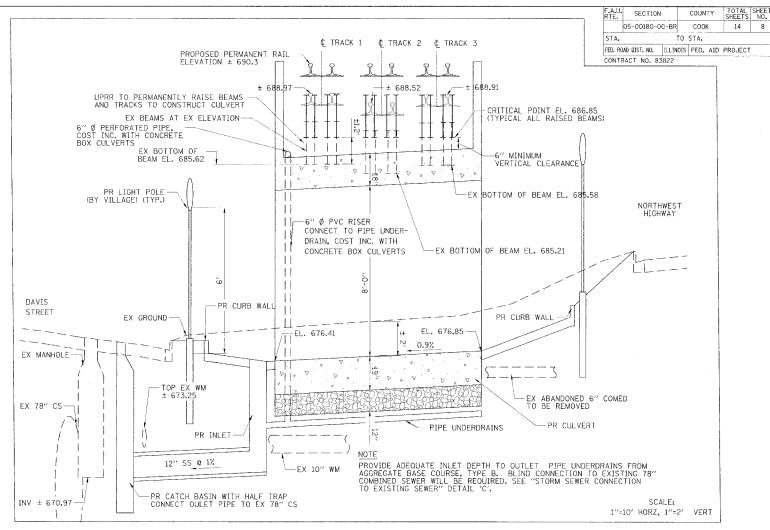


PAID FOR AS SPECIAL SIDEWALK-AND CURB WALL CHAIN LINK FENCE IDOT HWY STD 664001 1/2" PREFORMED -5' & VARIES JOINT FILLER ---EX RAILROAD EMBANKMENT EX B-6.12 COMB CONC CURB &-GUTTER ALONG DAVIS STREET -GRADE TO ENDS OF CURB WALL TO DRAIN ACROSS PCC SIDEWALK 5" #5 BARS CONTINUOUS — (MAX SPACING BETWEEN BARS SHALL BE 12") -#5 BARS @ 18" CTS 1. TOP OF CURB WALL ELEVATION SHALL MATCH EXISTING BACK OF CURB ELEVATION ALONG DAVIS STREET. 2. SEE SECTION BELOW FOR ADDITIONAL DETAILS 3. REBARS TO BE EPOXY COATED

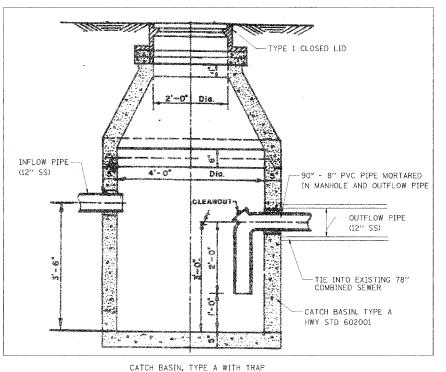
SIDEWALK DETAIL
DAVIS STREET
(LOOKING WEST)



SIDEWALK DETAIL NORTHWEST HIGHWAY (LOOKING WEST)



PROFILE LOOKING WEST

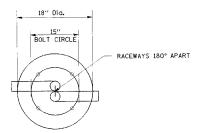


CONSTRUCTION DETAILS

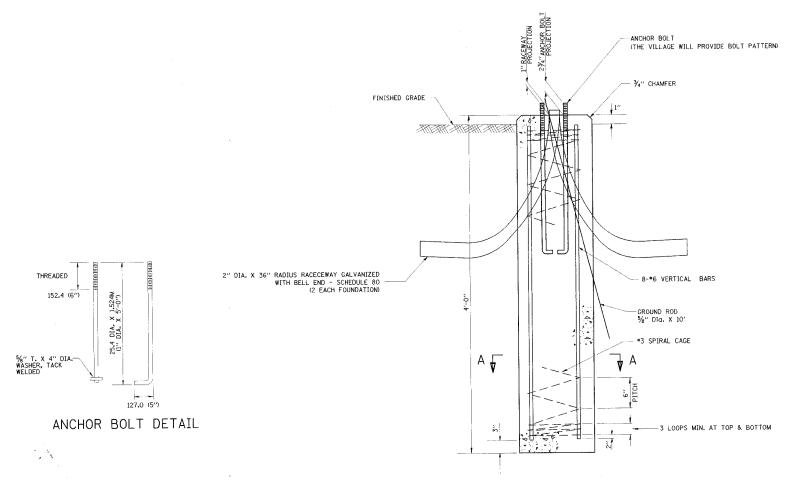
ILLINOIS DEPARTMENT OF TRANSPORTATION
PEDESTRIAN CULVERT UNDER UNION PACIFIC RAILROAD

NO SCALE DATE 01/20/0 DRAWN BY JMH CHECKED BY SDC

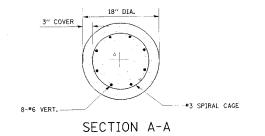
F.A.U. RTE.	SECTION		COUN	TY	TOTAL SHEETS	SHEET NO.
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FED. RO	DAD DIST. NO. I	LLINOIS	FED.	AID	PROJEC*	ſ
CONTI	RACT NO. 838	22	t			



TOP PLAN



FOUNDATION DETAIL



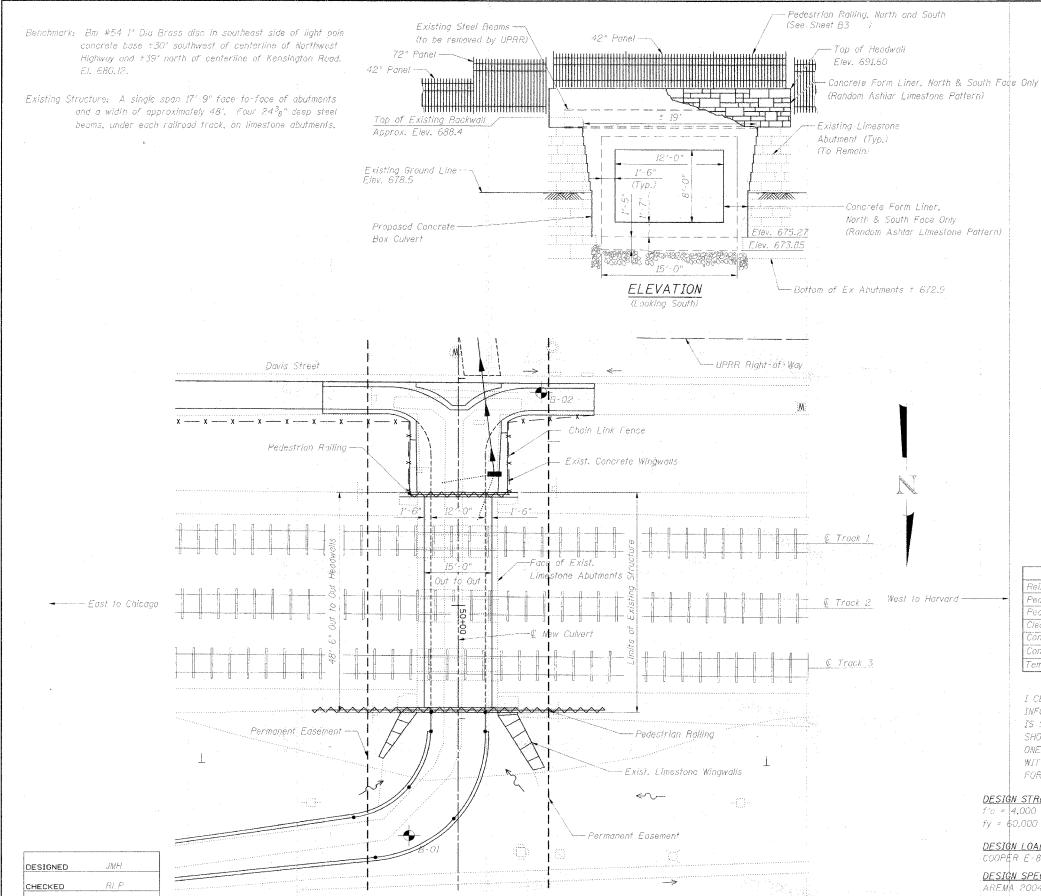
FOUNDATION NOTES

- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. SOIL CONDITIONS MAY REQUIRE THE USE OF A LINER TO FORM THE HOLE.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL, A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN.
- THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- 5. THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- 6. ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY CALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 6 MILS OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES WITH A MINIMUM OF 3 INCHES OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- 8. ANCHOR RODS SHALL PROJECT 23/4" ABOVE THE TOP OF THE FOUNDATION.
- THE CONTRACTOR SHALL USE A *3 SPIRAL AT 6" PITCH OR MAY SUBSTITUTE *3 TIES AT 12" O.C. WITH THE APPROVAL OF THE ENGINEER.
- 10. THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- 11. THE RACEWAYS SHALL PROJECT 1" ABOVE THE TOP OF THE FOUNDATION.

ILLINOIS DEPARTMENT OF TRANSPORTATION PEDESTRIAN CULVERT UNDER UNION PACIFIC RAILROAD

LIGHT POLE FOUNDATION

NO SCALE DATE 11/08/ DRAWN BY DMG CHECKED BY SDC



PLAN

Northwest Highway

DMG

RLP

DRAWN

CHECKED

пруте но.	SECTION	cou	NTY	SHEETS	SHERT NO.	SHE	ET NO. 81
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FED. ROW) DIST	ND. ?	ILL INDIE	FED. AID PRO	DJECT-			

Contract No. 83822

GENERAL NOTES

- 1. Reinforcement bars shall conform to the requirements: of AASHTO M31 (ASTM A615). Grade 60.
- 2. Exposed concrete edges shall be beyeled $\frac{3}{4}$ ".
- 3. The back face of wingwalls and sidewalls and top of the top slab of the culvert shall be waterproofed according to article 503.18 of the Standard Specifications. Cost Included in Concrete Box Culverts.
- 4. Plan dimensions and details relative to the existing structure have been taken from field measurements and are subject to nominal construction variations. It shall be the contractor's responsibility to verify such dimensions and details in the field. and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be a cause for additional compensation for a change in the scope of work.
- 5. All reinforcement bars designated (E) shall be epoxy coated.
- 6. The voids between the culvert sidewalls and existing abutments shall be filled with Porous Granular Embankment. The cost of this work-shall be included in the Concrete Box Culverts. The contractor, at his option, may bank pout the culvert sidewalls against the existing abutments. The pay limits will be based on the concrete lines shown on the plans. No additional payment will be made for use of concrete in lieu of Porous Granular Embankment.
- 7. Care shall be taken to avoid undermining the existing abutment footings by excavating for proposed culvert.
- 8. Culvert wingwalls shall be poured to meet the face of the existing abutments. Reinforcing shall be adjusted to fit actual conditions as necessary. Cost included in Concrete Box Culverts.
- 9. Precast structure is not allowed.
- 10. Temporary abutment bracing shall be installed prior to excavation for Concrete Box Culverts. See sheet 12 for details.

TOTAL BILL OF MATERIAL

ITEM .		UNIT	TOTAL
Reinforcement Bars, Epoxy Coated	*	pound	30,900
Pedestrian Railing, 42"		foot	88
Pedestrian Railing, 72"		foot	16
Clear Protective Coating for Concrete	:	sq ft	2,380
Concrete Box Culverts		cu vd	155
Concrete Formliner		sq ft	500
Temporary Abulment Bracing		l sum	1

I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THIS BOX CULVERT DESIGN IS STRUCTURALLY ADEQUATE FOR THE DESIGN LOADING SHOWN ON THE PLANS, THE DESIGN IS AN ECONOMICAL ONE FOR THE STYLE OF STRUCTURE AND COMPLIES WITH REQUIREMENTS OF THE CURRENT "AREMA MANUAL FOR RAILWAY ENGINEERING."

DESIGN STRESSES

fy = \$0,000 psi (REINFORCEMENT)

DESIGN LOADING -COOPER E-80

DESIGN SPECIFICATIONS

AREMA 2004 "MANUAL FOR RAILWAY ENGINEERING"

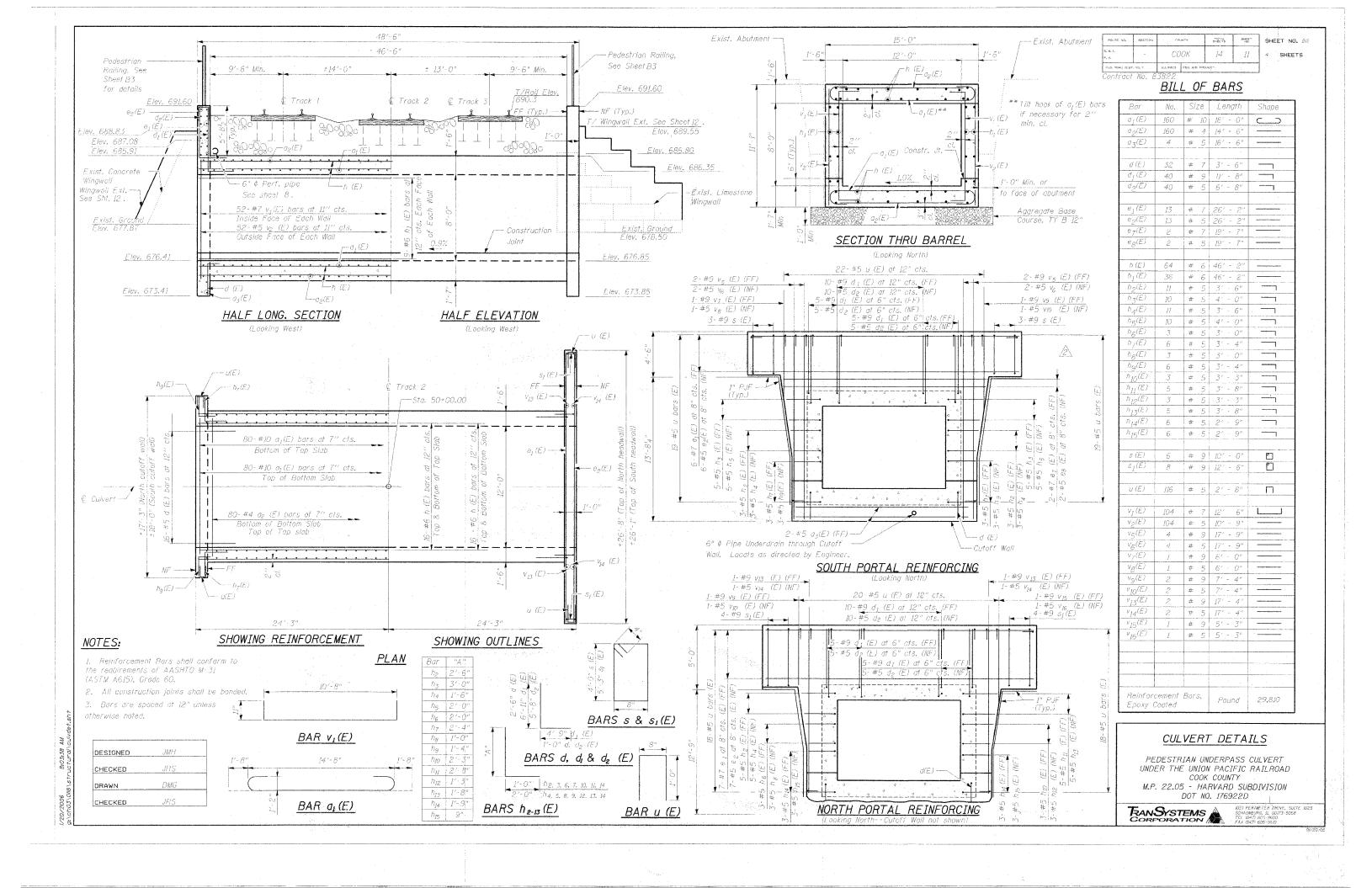


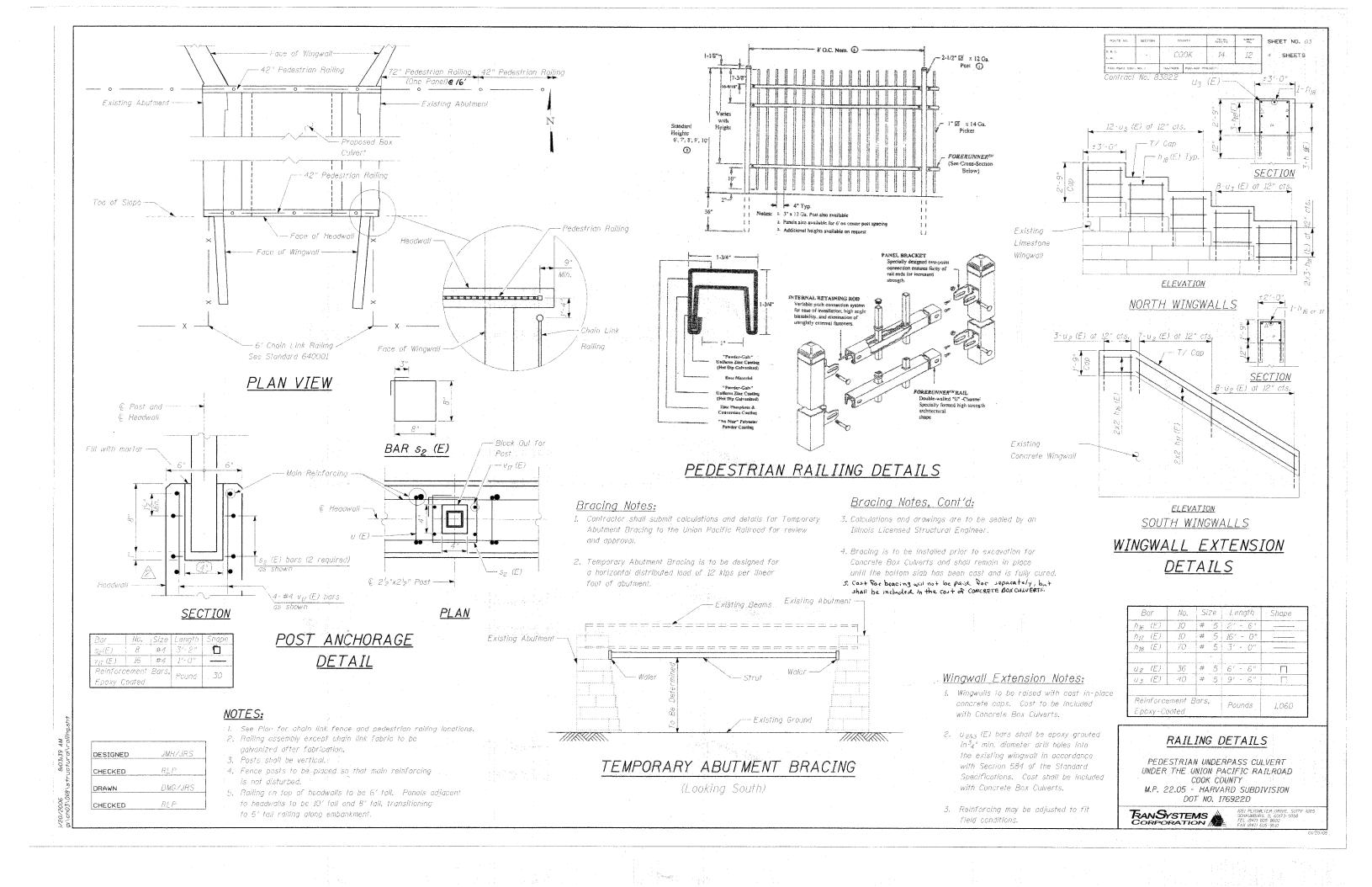
Robus J. Peters 01/20/06 ROBERT L. PETERS, P.E., S.E. NO. 081-04697 EXP. DATE 11/30/06

CULVERT GENERAL PLAN AND ELEVATION

PEDESTRIAN UNDERPASS CULVERT UNDER THE UNION PACIFIC RAILROAD COOK COUNTY M.P. 22.05 - HARVARD SUBDIVISION DOT NO. 176922D







ROUTE NO.	SECTION	cou	JHTY	SHEETS	SHITE T NO.	
5. 5. 1. F. 4.	-	CO	OK.	14	13	
FCG- MCAD DIST	. 40, 7	ULLING IS	FED. ALU PRO	AUGUST:		

Page 1 of 1

SHEET NO. 84 4 SHEETS

Contract No. 83822

wangang3@wangeng.com 1145 Main Street Lombard, iL 60148 Telephone: 630 953-9928 Fax: 630 953-9938

BORING LOG B-01

WEI Job No.: 790-08-01

Datum: NGVD

TranSystems Chent Arlington Heights Pedestrian Underpass Project Arlington Heigts, Illinois Location

Datum NGVD
Elevation: 5-25-ft- 681.25 ft
North 9993.50 ft
East 9992.00 ft
Station: 1+08
Offset 10.5 LT

Page 1 of t

SOIL AND ROCK DESCRIPTION	Sample Type	Sample No.	N Values (blw/6 in)	39	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND RO		Sample Type recovery	Sample No. N Values (btw/6 in)	Dou (tsf)	Moisture
Very stiff, black CLAY LOAMTOPSOIL							Bor	ing terminated at 25	5.00 ft				
Loose, brown coarse SAND FILL	X	1	5 3 4	2 00 P	16								
Very stiff, black and gray, gravelly CLAY									-				
FILL 5	X	2	4 2 3	2 00 P	18				30_				
Medium stiff to stiff, gray SANDY CLAY LOAMFILL	X	3	3 2 2	1.25 P	28				- - - -				
LL=25%, PL=20%	X	-1	4 2 6	0.90 B	17				- - 35_		-		
Very stiff to hard, gray CLAY -	X	5	6 11 16	5,33 B	16				- - -				
- - - 16_	M	6	4 8 9	3.69 B	18				40_				
-128	M	7	16 28 22	2.00 P	18				- - -			-	
Stiff to very stiff, gray CLAY		8	3 4 7	1.39 B	14				45 <u>.</u>				
	X	9	4 6 8	2.38 E	20								
199 25	X	10	13	1.23 B	22				50_				
GENERAL N								WA	TER LEVE	L D		1	
Begin Drilling 03-01-2004 Cor Drilling Contractor Patrick Drilling K&J Logger Y, Drilling Method 3.25" ID HSA; Boring b	Shiu	 J	Drill Rig Oh	g .(ecked	ME.	75 1	MR	Vihite Drilling At Completion of Dri Time After Drilling Depth to Water	□ ↓ Fing ↓ NA NA ↓ NA	1.64	DRY		

BORING LOG B-02

WEI Job No.: 790-08-01 wangeng3@vangeng.com 1145 Main Street TranSystems Lombard, IL 63148 Telephone: 630 953-9928 Fax: 630 953-9938

Client Project Arlington Heights Pedestrian Underpass Arlington Heigts, Illinois Location

Datum: NGVD Elevation: 2-00-ft- **677.43 ft**North: 10017 50 ft
East: 9894.33 ft
Station: 2+05.67
Offset: 17.5 RT

Profile	SOIL AND ROCK DESCRIPTION	Sample Type recovery	Sample No.	N Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (fl)	SOIL AND ROCK DESCRIPTION	Depth	Sample Type Reovery	Sample No. N Values	(blw/6 in)	(tsf) Moisture	Content (%)
-0-	Loose, gray GRAVELLY SAND							D				\top	1		1
	1.0FILL Medium stiff, gray gravelly CLAYFILL	X	1	313	9.50 P	10		Bori	ing terminated at 25.00 ft						
	 	X	2	1 2 1	0.75 P	22				=- =0					
	Very stiff to hard, gray CLAYLL=28%, PL=17%	X	3	2 5 8	2.71 B	16									
	 13	X	4	3 8 10	4.92 B	19				35					
	Medium dense, gray SILT	X	5	3 9 10	ΝP	18				 			and the second s		
0.00	Medium dense, gray GRAVELLY SAND 15_		6	15 11 12	NP	10				 40					
	Medium stiff to very stiff, gray _ CLAY	X	7	4 6 7	2.33 B	15				 					
	- - 20_	X	8	336	0.90 B	23				45_			ale de la constante de la cons		
	-21.0	X	9	4 8 10	2,33 B	20				****					
	Medium dense, gray SILT														
	-	X	10	8 11 12	NP	17				-					
Ш	-23 0 25	/ <u>\</u>							-	50			\perp		
	GENERAL N								WATER	LEVE	L D	ATA			
Be	gin Drilling 03-01-2004 Con			ling	0	3-01	-200	4	While Drilling	₽	1				
Dri	ling Contractor Patrick		. [Drill Rig	C	ME-	75 T	MR	At Completion of Dritting	¥		DRY			
Dri	ller K&J Logger Y.,								Time After Drilling	NA.					ı
Beg Drii Drii	ling Method 3.25" ID HSA; Boring b	ackf	ille	d up	on co	ompl	etior	3	Depth to V/ater V. The stratification (ines represented)	NA ent the ann	nvina	te haur	idan:		_
<u></u>		between soil types the actua	transition r	nay be	arsam	3									

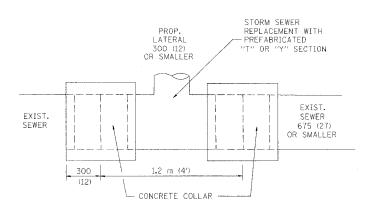
BORING LOGS

PEDESTRIAN UNDERPASS CULVERT UNDER THE UNION PACIFIC RAILROAD COOK COUNTY M.P. 22.05 - HARVARD SUBDIVISION DOT NO. 176922D



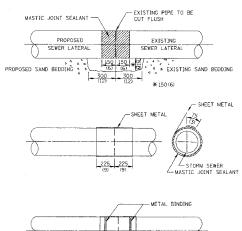
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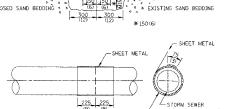


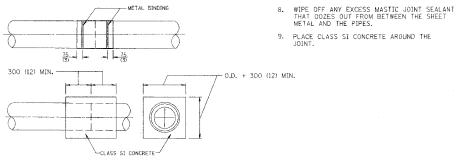


DETAIL "A" -

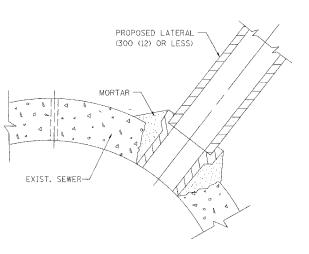
LATERAL CONNECTION TO EXISTING SEWER OF 675 (27) OR SMALLER







DETAIL "B" CLASS SI CONCRETE COLLAR



DETAIL "C"

PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 750 (30) OR LARGER

NOTES

MATERIÀL

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 675 (27) OR SMALLER SEE DETAIL "A" AND "B".
- B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 750 (30) 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.

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.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

CONSTRUCTION SEQUENCE

CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.

4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 450 (18) WIDE BY THE OUTSIDE CIRCUMFERANCE OF THE PIPE PLUS 75 (3) LONG.

2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 150 (6) OF EACH PIPE.

3. Butt the PIPES together leaving a minimum of 300 \times 150 (12 \times 6) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.

WRAP THE SHEET METAL AROUND THE PIPES, 225 (9) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.

6. LAP THE SHEET METAL AT LEAST 75 (3) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.

PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS, THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYF SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER

SCALE: NONE

YONG

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DATE 10/18/2002

BD500-01 (BD-7) REVISION DATE: 06/12/96