06-16-2017 LETTING ITEM 244

FAU RTE. NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO
6011	*	LASALLE	20	1
FED AID PROJECT BRS-0099(061)				

* 08-00656-00-BR
CONTRACT NO. 87657

PLANS FOR PROPOSED MAJOR BRIDGE PROGRAM

FIRST AVENUE OVER FIRST CREEK

PROPOSED STRUCTURE NO. 050-7016

SECTION 08-00656-00-BR

LASALLE COUNTY - CITY OF MENDOTA

PROJECT BRS-0099(061)

JOB NO. C-93-057-16

FAU 6011

MENDOTA TOWNSHIP, T36N, R1E

INDEX OF SHEETS

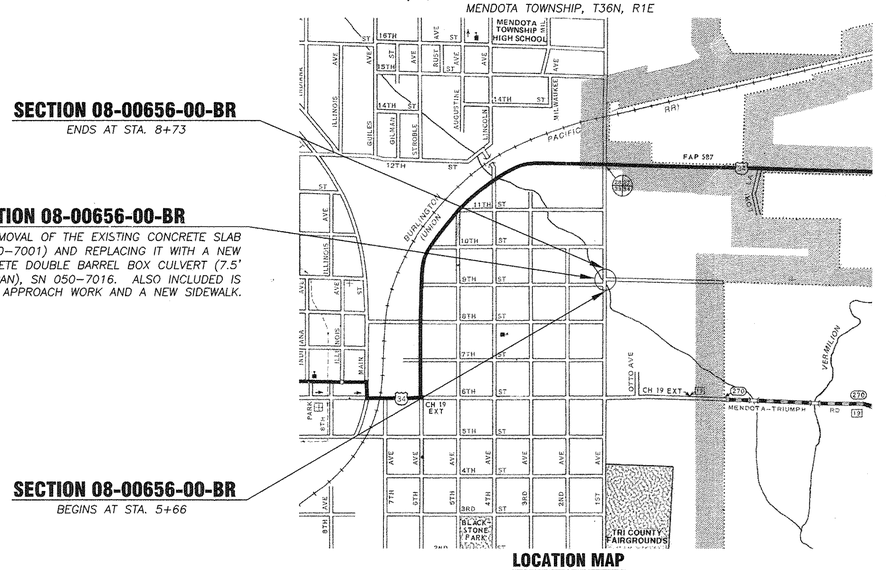
HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-09	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
515001-03	NAME PLATE FOR BRIDGES
602011-02	CATCH BASIN TYPE C
602301-04	INLET - TYPE A
602701-02	MANHOLE STEPS
604006-05	FRAME & GRATE TYPE 3
604036-03	GRATE TYPE 8
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB & GUTTER
630001-11	STEEL PLATE BEAM GUARDRAIL
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15'-24" FROM PAVEMENT EDGE
701011-04	OFF-RD OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TERM OPERATIONS
701901-06	TRAFFIC CONTROL DEVICES
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TY. A & B METAL POSTS
780001-05	TYPICAL PAVEMENT MARKINGS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES

SECTION 08-00656-00-BR
ENDS AT STA. 8+73

SECTION 08-00656-00-BR
INCLUDES THE REMOVAL OF THE EXISTING CONCRETE SLAB BRIDGE (EXIST. SN 050-7001) AND REPLACING IT WITH A NEW CAST-IN-PLACE CONCRETE DOUBLE BARREL BOX CULVERT (7.5' RISE X 12.5' SPAN), SN 050-7016. ALSO INCLUDED IS NECESSARY APPROACH WORK AND A NEW SIDEWALK.

SECTION 08-00656-00-BR
BEGINS AT STA. 5+66



LOCATION MAP
NOT TO SCALE

LOCATION OF SECTION INDICATED THUS: - ▬

LENGTH OF SECTION = 307 FEET (0.058 MILE)-GROSS
307 FEET (0.058 MILE)-NET

DESIGN CRITERIA

ROADWAY	DESIGN CLASSIFICATION	ADT 2017	ADT 2037	DESIGN SPEED
FIRST AVE.	LOCAL STREET	1500	1800	30

100' 200' 300' — 1"= 100'
0 10' 20' 30' — 1"= 10'
0 50' 100' — 1"= 50'
0 50' 100' — 1"= 40'
0 50' 100' — 1"= 30'
0 50' 100' — 1"= 20'

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.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123

CONTRACT NO. 87657

WENDLER ENGINEERING SERVICES, INC.
Illinois Professional Design Firm No. 184-000848
Seal covers sheets 1-6 & 8-20

REGISTERED PROFESSIONAL ENGINEER
SCOTT A. BROWN
062-053649
STATE OF ILLINOIS

Scott Brown 4/3/17
DATE

SCOTT A. BROWN
DIXON, ILLINOIS
ILLINOIS LICENSED STRUCTURAL ENGINEER NO. 062-053649
EXPIRES 11-30-2017

PLANS PREPARED BY:

wendler
GROUNDBREAKING SOLUTIONS
engineers · surveyors · scientists
www.wendlergs.com ph: 815.288.2261
Illinois Professional Design Firm No. 184-000848

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 4-3 20 17
Laurence A. Kruger
COUNTY ENGINEER

PASSED 4-12 20 17
DISTRICT 3 ENGINEER OF LOCAL ROADS & STREETS

RELEASED FOR BID BASED ON LIMITED REVIEW 4-12 20 17
Kevin Haudek
REGION 2 ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

SUMMARY OF QUANTITIES

FUNDING CODE: 0011

	PAY ITEM	DESCRIPTION	UNIT	QUANTITY
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	120
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	100
	20700220	POROUS GRANULAR EMBANKMENT	CU YD	1566
	20800150	TRENCH BACKFILL	CU YD	86
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	791
	25200200	SUPPLEMENTAL WATERING	UNIT	1
	28000305	TEMPORARY DITCH CHECKS	FOOT	8
	28000400	PERIMETER EROSION BARRIER	FOOT	511
	28000510	INLET FILTERS	EACH	3
	28100107	STONE RIPRAP, CLASS A4	SQ YD	445
	28200200	FILTER FABRIC	SQ YD	445
	31101000	SUBBASE GRANULAR MATERIAL, TYPE B	TON	415
	35101400	AGGREGATE BASE COURSE, TYPE B	TON	310
	40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	15
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	633
*	40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	2967
	40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	153
	40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	144
	42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH	SQ YD	55
*	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	725
	42400800	DETECTABLE WARNINGS	SQ FT	12
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	74
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	326
	44000600	SIDEWALK REMOVAL	SQ FT	39
*	50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
	50200100	STRUCTURE EXCAVATION	CU YD	2779
	50300225	CONCRETE STRUCTURES	CU YD	49.94
	50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	1695
	50800105	REINFORCEMENT BARS	POUND	4260
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	121190
*	50900805	PEDESTRIAN RAILING	FOOT	52
* Δ	50901760	PIPE HANDRAIL	FOOT	102
*	51500100	NAME PLATES	EACH	1
	52200015	PERMANENT SHEET PILING	SQ FT	1302
	54003000	CONCRETE BOX CULVERTS	CU YD	439.5
	54213453	END SECTIONS 18"	EACH	1
Δ	56100050	DUCTILE IRON WATER MAIN TEE, 12" X 6"	EACH	1
Δ	56100065	DUCTILE IRON WATER MAIN TEE, 12" X 12"	EACH	1
* Δ	56103000	DUCTILE IRON WATER MAIN 6"	FOOT	10
* Δ	56103300	DUCTILE IRON WATER MAIN 12"	FOOT	304
* Δ	56104900	WATER VALVES 6"	EACH	1
* Δ	56105200	WATER VALVES 12"	EACH	3
* Δ	56105702	INSERTING VALVES 12"	EACH	3
Δ	56109412	DUCTILE IRON WATER MAIN FITTINGS 12" 22.50 DEGREE BEND	EACH	2
Δ	56109424	DUCTILE IRON WATER MAIN FITTINGS 12" 45.00 DEGREE BEND	EACH	5
* Δ	56200300	WATER SERVICE LINE 1"	FOOT	30
Δ	56201400	CORPORATION STOPS 1"	EACH	2
* Δ	56400600	FIRE HYDRANTS	EACH	1
*	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	41.7
	60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	2
	60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	1
	60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	479
Δ	63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	126
	67100100	MOBILIZATION	LSUM	1
	72000100	SIGN PANEL - TYPE 1	SQ FT	6.25
	72900200	METAL POST - TYPE B	FOOT	14
Δ	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	80
Δ	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	94
Δ	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	17
Δ	78200006	GUARDRAIL REFLECTORS, TYPE B	EACH	4
	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	63
	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	96
	X0322128	MEMBRANE WATERPROOFING FOR BURIED STRUCTURES	SQ YD	444
* Δ	X0323760	SANITARY SEWER SERVICE, 6" PVC, COMPLETE	EACH	1
* Δ	X0323814	SANITARY SEWER REMOVAL, 18"	FOOT	97
* Δ	X0324930	DUCTILE IRON SLEEVE, 12"	EACH	2
*	X0326717	CONCRETE ENTRANCE (SPECIAL)	SQ YD	82
* Δ	X0322786	SANITARY SEWER TESTING	L. SUM	1
*	X2020410	EARTH EXCAVATION (SPECIAL)	CU YD	480
*	X2520650	SODDING, SALT TOLERANT (SPECIAL)	SQ YD	1230
* Δ	X5610004	DUCTILE IRON WATER MAIN FITTINGS	POUND	490
* Δ	X5610012	CAP EXISTING WATER MAIN	EACH	3
* Δ	X5620030	WATER SERVICE CONNECTION 1"	EACH	2
	X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	80
* Δ	X6022820	MANHOLES, SANITARY, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2
Δ	X6026050	SANITARY MANHOLES TO BE ADJUSTED	EACH	3
* Δ	X6026054	SANITARY MANHOLES TO BE REMOVED	EACH	1
*	X6320100	GUARDRAIL REMOVAL SPECIAL	FOOT	278
*	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1
	Z0013798	CONSTRUCTION LAYOUT	LSUM	1
* Δ	Z0015000	CURB STOPS 1"	EACH	2
* Δ	Z0056800	SANITARY SEWER 6"	FOOT	10
* Δ	Z0057300	SANITARY SEWER 18"	FOOT	86
* Δ	Z0067700	STEEL CASINGS 20"	FOOT	55
*	Z0075496	CONCRETE RETAINING WALL REMOVAL	FOOT	197
	*	**SEE SPECIAL PROVISIONS** Δ SPECIALTY ITEMS		

SCHEDULE OF QUANTITIES

20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT
	RT. STA. 5+65	12
	RT. STA 5+92	12
	RT. STA. 6+14	12
	RT. STA. 6+30	12
	RT. STA. 6+51	12
	RT. STA. 6+63	12
	LT. STA. 6+63	6
	LT. STA. 6+68	6
	LT. STA. 6+75	6
	LT. STA. 6+81	6
	LT. STA. 6+86	6
	LT. STA. 6+92	6
	RT. STA. 7+18	12
	TOTAL	**120**

20800150	TRENCH BACKFILL	CU YD
	RT. STA. 6+46 - LT. STA. 6+60	16
	WATERMAIN & SANITARY SEWER	70
	TOTAL	**86**

21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD
	RT. STA. 5+40 - RT. STA. 6+70	425
	RT. STA. 7+01 - RT. STA. 7+25	116
	LT. STA. 6+35 - LT. STA. 7+49	250
	TOTAL	**791**

28000305	TEMPORARY DITCH CHECKS	FOOT
	LT. STA. 7+25	8
	TOTAL	**8**

28000400	PERIMETER EROSION BARRIER	FOOT
	RT. STA. 5+40 - RT. STA. 6+70	165
	LT. STA. 6+59 - LT. STA. 7+49	90
	RT. STA. 7+01 - RT. STA. 7+28	47
	RT. STA. 7+46 - RT. STA. 8+73	127
	LT. STA. 7+96 - LT. STA. 8+77	82
	TOTAL	**511**

28000510	INLET FILTERS	EACH
	LT. STA. 6+07	1
	LT. STA. 6+60	1
	LT. STA. 6+60	1
	TOTAL	**3**

28100107	STONE RIPRAP, CLASS A4	SQ YD
	RT. STA. 4+84 - RT. STA. 6+27	327
	LT. STA. 7+27 - LT. STA. 7+95	118
	TOTAL	**445**

28200200	FILTER FABRIC	SQ YD
	RT. STA. 4+84 - RT. STA. 6+27	327
	LT. STA. 7+27 - LT. STA. 7+95	118
	TOTAL	**445**

40200800	AGGREGATE SURFACE COURSE, TYPE B	TON
	RT. STA. 6+85	15
	TOTAL	**15**

42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH	SQ YD
	RT. STA. 7+37	55
	TOTAL	**55**

42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT
	LT. STA. 6+45 - LT. STA. 8+02	725
	TOTAL	**725**

42400800	DETECTABLE WARNINGS	SQ FT
	LT. STA. 6+47	12
	TOTAL	**12**

44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD
	RT. STA. 6+85	37
	RT. STA. 7+37	37
	TOTAL	**74**

44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT
	RT. STA. 6+47 - RT. STA. 8+73	226
	LT. STA. 6+69 - LT. STA. 8+73	100
	TOTAL	**326**

44000600	SIDEWALK REMOVAL	SQ FT
	LT. STA. 6+51	39
	TOTAL	**39**

50900805	PEDESTRIAN RAILING	FOOT
	LT. STA. 7+23 - LT. STA. 7+75	52
	TOTAL	**52**

50901760	PIPE HANDRAIL	FOOT
	RT. STA. 5+54 - RT. STA. 6+29	102
	TOTAL	**102**

550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT
	RT. STA. 6+46 - LT. STA. 6+60	35
	LT. STA. 6+60 - LT. STA. 6+61	17
	RT. STA. 7+22	11
	TOTAL	**63**

550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT
	LT. STA. 7+80 - LT. STA. 8+74	96
	TOTAL	**96**

54213453	END SECTIONS 18"	EACH
	LT. STA. 7+80	1
	TOTAL	**1**

60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH
	LT. STA. 6+61	1
	RT. STA. 7+24	1
	TOTAL	**2**

60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH
	LT. STA. 6+60	1
	TOTAL	**1**

60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT
	RT. STA. 5+66 - RT. STA. 6+78	113
	RT. STA. 7+30 - RT. STA. 8+73	143
	LT. STA. 6+35 - LT. STA. 7+19	108
	LT. STA. 7+59 - LT. STA. 8+73	115
	TOTAL	**479**

63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT
	RT. STA. 5+38 - RT. STA. 6+60	126
	TOTAL	**126**

72000100	SIGN PANEL - TYPE 1	SQ FT
	LT. STA. 6+02 (R1-1)	6.25
	TOTAL	**6.25**

72900200	METAL POST - TYPE B	FOOT
	LT. STA. 6+02	14
	TOTAL	**14**

78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT
	STA. 5+66 - STA. 8+73	80
	TOTAL	**80**

78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT
	LT. STA. 5+98 - LT. STA. 6+52	94
	TOTAL	**94**

78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT
	LT. STA. 6+08 - LT. STA. 6+24	17
	TOTAL	**17**

X0323389	STORM SEWER CONNECTION	EACH
	RT. STA. 6+46	1
	RT. STA. 7+18	1
	LT. STA. 8+74	1
	TOTAL	**3**

X0323814	SANITARY SEWER REMOVAL, 18"	FOOT
	RT. STA. 7+05	35
	RT. STA. 7+05 - RT. STA. 7+67	62
	TOTAL	**97**

X0326717	CONCRETE ENTRANCE (SPECIAL)	SQ YD
	RT. STA. 6+85	82
	TOTAL	**82**

X2520650	SODDING, SALT TOLERANT (SPECIAL)	SQ YD
	RT. STA. 5+40 - RT. STA. 6+70	425
	RT. STA. 7+01 - RT. STA. 7+25	116
	LT. STA. 6+35 - LT. STA. 7+49	250
	RT. STA. 7+46 - RT. STA. 8+73	170
	LT. STA. 7+75 - LT. STA. 8+77	269
	TOTAL	**1230**

X6026050	SANITARY MANHOLES TO BE ADJUSTED	EACH
	LT. STA. 5+75	1
	LT. STA. 6+93	1
	LT. STA. 6+30	1
	TOTAL	**3**

X6320100	GUARDRAIL REMOVAL SPECIAL	FOOT
	RT. STA. 5+38 - RT. STA. 6+59	122
	LT. STA. 6+42 - LT. STA. 7+97	156
	TOTAL	**278**

Z0075496	CONCRETE RETAINING WALL REMOVAL	FOOT
	RT. STA. 5+52 - RT. STA. 6+44	106
	LT. STA. 6+43 - LT. STA. 7+41	91
	TOTAL	**197**

20700220	POROUS GRANULAR EMBANKMENT	CU YD
	RETAINING WALL	67
	BOX CULVERT	1161
	EXISTING STRUCTURE VOID	338
	TOTAL	**1566**

X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD
	RETAINING WALL	80
	TOTAL	**80**

			HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 - 2"	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 - 3"	AGGREGATE BASE COURSE, TYPE B - 6"	SUBBASE GRANULAR MATERIAL, TYPE B - 8"	PRIME COAT	TACK COAT
	SQ. FT.	SQ. YD.	TON	TON	TON	TON	POUND	POUND
STA. 5+66 - STA. 7+04	3540	393.33	45	68	138	184	1158	247
LT. STA. 6+24 (9TH ST. RETURN)	1080	120.00	14	21	42	56	353	75
STA. 7+04 - STA. 7+45**	1103	122.56	42				361	77
STA. 7+45 - STA. 8+73	3348	372.00	43	64	130	174	1095	234
			144	**153**	**310**	**415**	**2967**	**633**

** VARIABLE DEPTH, SEE PLAN

wendler engineering services, inc.
GROUNDBREAKING SOLUTIONS
engineers-surveyors-scientists
www.wendlergs.com ph: 815.288.2261

USER NAME = brianschumaker	DESIGNED - SAB	REVISED -	
PLOT SCALE = -	DRAWN - BDS	REVISED -	
PLOT DATE = 3/30/17	CHECKED - -	REVISED -	
FILE NAME = 2070388-2011.dwg	DATE - 02/01/2017	REVISED -	

LASALLE COUNTY - CITY OF MENDOTA

SCHEDULE OF QUANTITIES

SCALE: | SHEET - OF - SHEETS | STA. - TO STA. -

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6011	08-00656-00-BR	LASALLE	20	3
WES* 2070388		CONTRACT NO 87657		
	ILLINOIS FED. AID PROJECT BRS-0099-(061)			

GENERAL NOTES

1. EXCEPT AS NOTED IN THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.

2. BEFORE ORDERING STORM SEWERS OR PIPE DRAINS, THE CONTRACTOR SHALL FIELD VERIFY AND CONSULT THE ENGINEER FOR EXACT LENGTHS.

3. FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

4. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

5. THE CONTRACTOR SHALL BE AWARE OF THE PRESENCE OF OVERHEAD HIGH VOLTAGE POWER LINES WHICH MAY IMPACT CONTRACTORS OPERATIONS.

6. UNLESS DIRECTED BY THE ENGINEER, PAVEMENT MARKING LINES SHALL NOT BE LAID DIRECTLY OVER A JOINT.

7. THE NEW MANHOLE LIDS ON THIS PROJECT SHALL HAVE THE WORD "STORM", "SANITARY", OR "WATER" ON THE LID. IT WILL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE WORD TO BE USED ON OTHER LIDS NOT NOTED ON THE PLANS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THIS WORK.

8. ALL PROPOSED MANHOLES ON THIS PROJECT SHALL BE PRECAST. NO DOGHOUSE MANHOLES WILL BE ALLOWED. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR MANHOLE OF THE TYPE AND SIZE SPECIFIED.

9. THE WORK REQUIRED TO CONNECT ANY SEWER TO AN EXISTING DRAINAGE STRUCTURE OR PIPE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THE SEWER ITEMS, UNLESS OTHERWISE NOTED IN PLAN.

10. HMA PAVEMENT REMOVAL, STORM SEWER REMOVAL, SAW CUTS SHALL BE INCLUDED IN THE COST BID FOR EARTH EXCAVATION, SPECIAL.

11. THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA IS PLACED.

12. THE HMA SURFACE OF ALL MAILBOX TURNOUTS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES, AND SIDE ROADS SHALL BE MADE NEATLY, IN A WORKMANLIKE MANNER, AND SHALL ACCURATELY CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. IF REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO SAW CUT THE HMA SURFACE TO CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE HMA SURFACE.

13. THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.10	TONS/CU YD
BITUMINOUS MATERIALS (PRIME COAT)	7.85	LBS/GAL
BITUMINOUS MATERIALS (PRIME COAT) FOR AGGREGATE BASES	0.001125	TONS/SQ YD
HMA PAVING SURFACE	115	LBS/SQ YD/IN
HMA PAVING BINDER	115	LBS/SQ YD/IN

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123.

ELECTRIC:	COMED	630-576-7094
CABLE:	COMCAST	224-229-5862
TELEPHONE:	FRONTIER COMMUNICATIONS	815-895-1515
GAS:	NICOR	630-388-2362
WATER, SANITARY, STORM	CITY OF MENDOTA:	815-539-6307

15. THE UTILITY INFORMATION SHOWN HEREON IS PROVIDED FOR THE CONVENIENCE OF THE BIDDER AND REFLECTS THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN SUBMITTAL.

16. THE CONTRACTOR SHALL GIVE DUE CONSIDERATION TO ALL SAFETY RULES DICTATED BY CODE AND GOOD PRACTICE. ADEQUATE TEMPORARY SUPPORT SHALL BE PROVIDED WHERE NECESSARY TO ENSURE THE STABILITY OF ALL COMPONENTS OF ADJACENT STRUCTURES, ROADWAYS, UTILITIES AND ALL PROPOSED CONSTRUCTION. DESIGN AND CONSTRUCTION OF SUPPORT SYSTEMS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND RESPECTIVE TRADE CONTRACTOR.

17. ALL FRAME ADJUSTMENTS SHALL BE ACCOMPLISHED USING PROCEDURES OUTLINED IN THE STANDARD SPECIFICATIONS AND AS DIRECTED IN THE SPECIAL PROVISIONS. ANY SHIMS NEEDED TO ADJUST ANY FRAME SHALL BE OF SOLID FLAT STEEL DIMENSIONS OF 2" IN WIDTH & LENGTH WITH UNIFORM THICKNESS. THE FRAME WILL BE SET TO GRADE USING STEEL SHIMS AND WITHOUT DISTURBING THE ADJUSTMENT; THE FRAME WILL THEN BE LIFTED OFF AND SET ASIDE. A FULL BED OF MORTAR WILL BE PLACED ON THE STRUCTURE BETWEEN THE ADJUSTING SHIMS, WHICH SHALL FORM A SOLID MASONRY BOND BETWEEN THE ADJUSTING RING OR STRUCTURE. THE FRAME SHALL BE SET BACK INTO PLACE IN A METHOD NOT TO DISTURB THE SHIMS OF DAMAGE THE BED OF MORTAR. ALL ADJUSTED FRAMES IN THE ROADWAY SHALL BE BACKFILLED USING COMPACTED HMA BINDER OR CLASS SI CONCRETE TO A MINIMUM DEPTH OF 6" BELOW THE BOTTOM OF THE FRAME.

18. DRIVEWAY PAVEMENT & SIDEWALK REMOVAL SHALL INCLUDE THE COMPLETE REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE, HOT-MIX ASPHALT, BRICK OR ANY OTHER PAVEMENTS AND PARTIAL DEPTH REMOVAL OF EXISTING BASES & SUB-BASES IS ASSUMED TO BE AT A DEPTH OF 12".

19. GRANULAR BACKFILL SHALL BE USED FOR CULVERT, WING WALL, EXISTING STRUCTURE/CHANNEL BACKFILL, AND RETAINING WALL BACKFILL IN ACCORDANCE WITH THE SCHEDULES ON PLAN SHEET 3. SITE EXCAVATED MATERIAL DEEMED SUITABLE FOR BACKFILL MATERIAL BY THE ENGINEER SHALL BE USED FOR EMBANKMENT ON THE FRONT (STREAM) SIDE OF RETAINING AND WING WALLS AND FOR THE FILL BEHIND THE UPSTREAM END SOUTH WING FOR 10' FROM THE WING END. NO VEHICLE DRIVEN COMPACTION EQUIPMENT SHALL BE USED WITHIN 10 FEET OF ANY PROPOSED STRUCTURE WALL ON THE PROJECT.

SANITARY SEWER NOTES:

1.) ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS, 7TH EDITION, 2014.

2.) THE CONTRACTOR SHALL ORDER MANHOLES BASED UPON THE ENGINEERS ACTUAL FIELD SHOTS AT THE TIME OF CONSTRUCTION. DUE TO EXISTING UTILITY LOCATIONS SOME MANHOLE LOCATIONS MAY CHANGE SLIGHTLY THEREBY CHANGING THE RIM ELEVATIONS.

3.) PVC SANITARY SEWER PIPE SHALL CONFORM TO ASTM D 3034, TYPE PSM. STANDARD DIMENSION RATIO (SDR) SHALL BE SDR 26 UNLESS OTHERWISE SHOWN ON THE PLANS. JOINTS SHALL CONFORM TO ASTM F477. BEDDING SHALL BE CLASS IA. INSTALLATION SHALL BE IN ACCORDANCE WITH ASTMS D2321-89. SANITARY SEWER FITTINGS SHALL BE HEAVY DUTY PVC, TYPE SDR 26. DUCTILE IRON SANITARY SEWER SHALL MEET THE PIPE AND FITTING SPECIFICATIONS FOR WATERMAIN DESCRIBED ABOVE.

4.) CERTA-LOK C900 DR 18 RESTRAINED JOINT PIPE FOR DIRECTIONAL DRILLING SHALL CONFORM TO ASTM D 1784 CELL CLASS 12454. PIPE COMPOUND SHALL BE ASTM D 1784. JOINTS SHALL BE IN ACCORDANCE WITH ASTM D 3139. GASKETS SHALL BE IN ACCORDANCE WITH ASTM F477.

5.) SANITARY SEWER JOINTS SHALL BE FLEXIBLE ELASTOMERIC SEALS PER ASTM D 3212 AND THE BEDDING SHALL BE CLASS IA BEDDING ASTM D 2321. MISSION COUPLINGS SHALL BE USED TO CONNECT PVC TO DUCTILE IRON SANITARY SEWER MAIN.

6.) THE CONTRACTOR SHALL CORE DRILL EACH EXISTING MANHOLE THAT IS BEING CONNECTED TO. LINK SEALS SHALL BE PROVIDED AT THE CONNECTIONS.

7.) BACKFILL MATERIAL AROUND THE SANITARY SEWER MANHOLES SHALL BE CA-7 CRUSHED LIMESTONE.

8.) THE SANITARY SEWER SERVICES SHALL BE PVC SDR 26 - ASTM D2241, 6" IN DIAMETER, THE TRANSITION BETWEEN D3034 PIPE AND D2241 PIPE SHALL BE WITH A GASKETED COUPLING.

9.) ALL SANITARY SEWER AND SERVICES SHALL BE AIR TESTED AND ALL SANITARY SEWER 8" DIAMETER AND LARGER SHALL BE TELEVISED. COST TO BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR SANITARY SEWER.

10.) ALL SANITARY SEWER LINES SHALL BE TESTED FOR DEFLECTION BY USING A MANDREL IN ACCORDANCE WITH THE SPECIFIED PROCEDURE AS OUTLINED IN THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS". COST TO BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR SANITARY SEWER.

11.) ALL SANITARY MANHOLES SHALL BE VACUUM TESTED IN ACCORDANCE W/ASTM C1244.

12.) THE CONTRACTOR SHALL PROVIDE THE OWNER WITH THE LOCATION AND VERTICAL DISTANCE FROM TOP OF CURB TO SANITARY SERVICE FLOW LINE AT THE END OF THE SANITARY SERVICE LINE WHERE IT IS PLUGGED FOR EACH SERVICE INSTALLED.

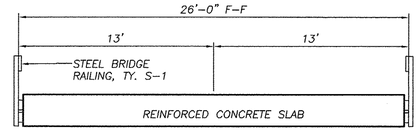
13.) ADJUSTMENT OF FRAME OF GRATE: FINAL GRADE FOR ALL MANHOLE CASTINGS WILL BE DETERMINED AFTER THE CURB AND GUTTER HAS BEEN POURED AND THE SUBGRADE AND/OR BASE HAS BEEN CONSTRUCTED. THE FINAL ELEVATION WILL BE DETERMINED BY THE ENGINEER.

14.) SANITARY SEWER AND WATER MAIN SEPARATION WILL CONFORM TO SECTION 41-2.01 OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS, LATEST EDITION.

15.) BYPASS PUMPING WILL BE NECESSARY TO CONSTRUCT THE NEW MANHOLE AT STA. 11+62. COST TO BE INCLUDED IN THE CONTRACT UNIT PRICE FOR SANITARY SEWER MANHOLE #3-TY. A, 5' DIA.

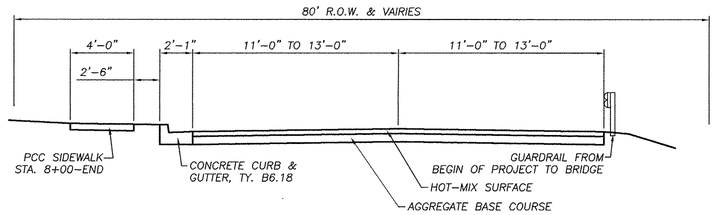
HMA MIXTURE REQUIREMENT TABLE

LOCATIONS:	ENTIRE PROJECT	ENTIRE PROJECT
MIXTURE USES	HMA BINDER	HMA SURFACE
PG GRADE	PG64-22	PG64-22
DESIGN AIR VOIDS	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION	IL 19.0	IL 9.5
FRICTION AGGREGATE		MIXTURE C
MIXTURE WEIGHT	112 LB/SY/IN	112 LB/SY/IN
QUALITY MANAGEMENT PROGRAM	QCQA	QCQA
SUBLOT SIZE:	NA	NA
DENSITY TEST METHOD	LR1030	LR1030



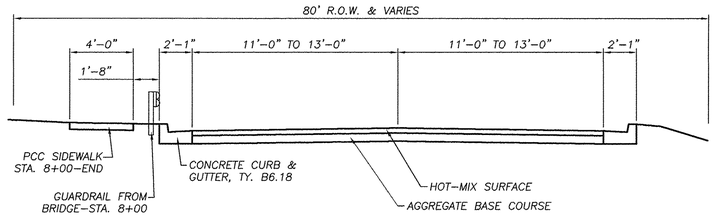
EXISTING SECTION THRU BRIDGE SN 050-7001

LOOKING NORTH



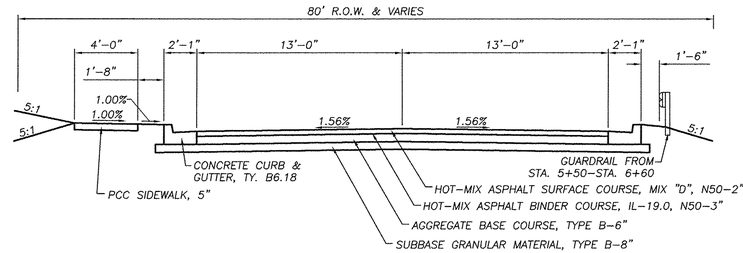
EXISTING ROADWAY SECTION

SOUTH OF BRIDGE
LOOKING NORTH



EXISTING ROADWAY SECTION

NORTH OF BRIDGE
LOOKING NORTH



PROPOSED ROADWAY SECTION

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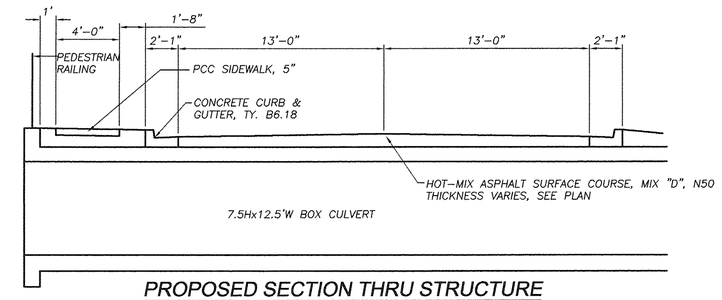

PROPOSED SECTION THRU STRUCTURE

LOOKING NORTH

wendler engineering services, inc. GROUNDBREAKING SOLUTIONS engineers-surveyors-scientists www.wendlergs.com ph: 815.288.2261	USER NAME = brianschumaker	DESIGNED - SAB	REVISED -
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	PLOT DATE = 4/3/17	CHECKED - -	REVISED -
	FILE NAME = 2070388-2011.dwg	DATE - 02/01/2017	REVISED -

LASALLE COUNTY - CITY OF MENDOTA

GENERAL NOTES & TYPICAL SECTIONS

SCALE: | SHEET - OF - SHEETS | STA. - | TO STA. -

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6011	08-00656-00-BR	LASALLE	20	4
WES# 2070388		CONTRACT NO		87657
	ILLINOIS FED. AID PROJECT		BRS-0099(061)	

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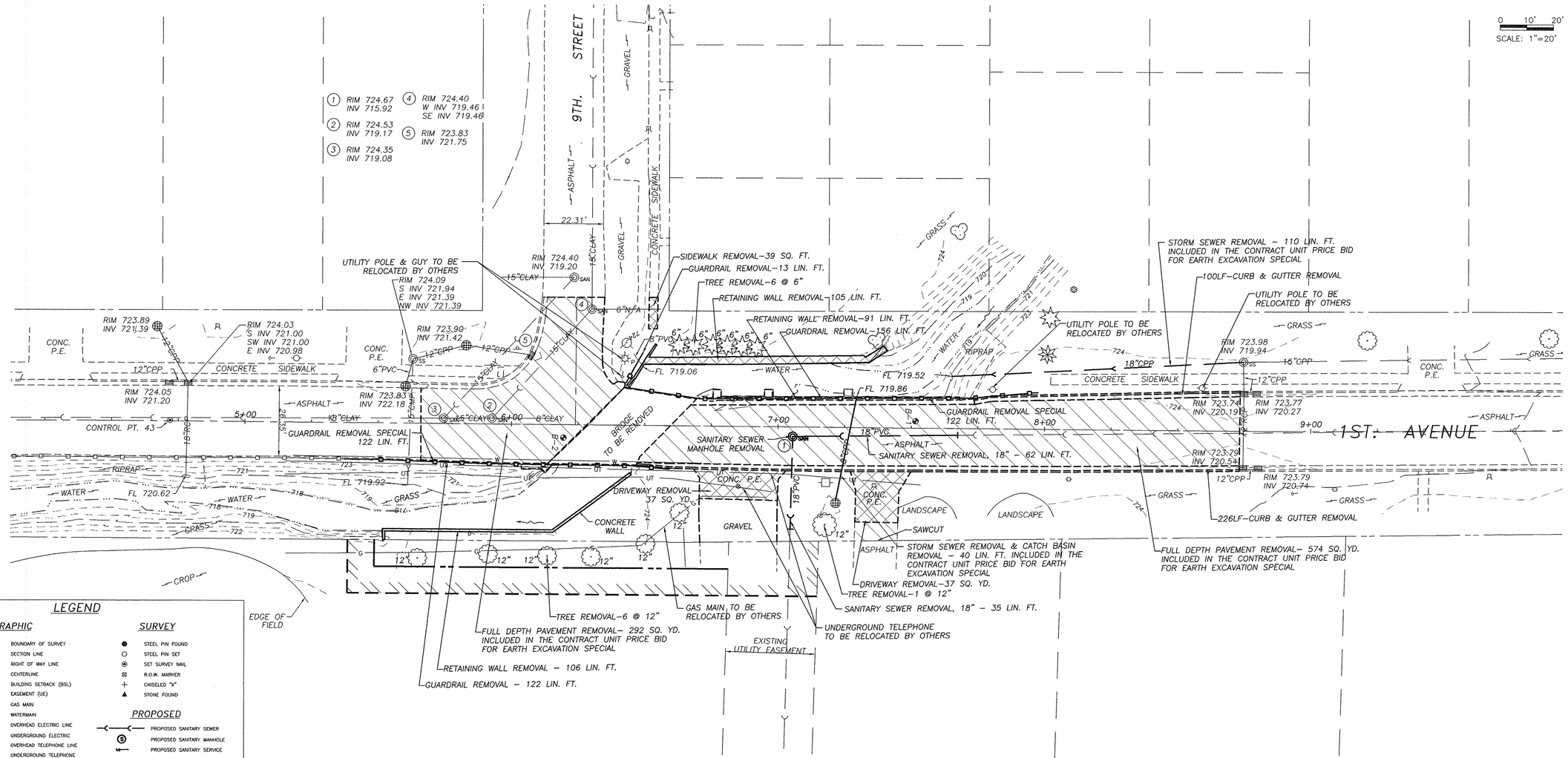

LEGEND

TOPOGRAPHIC

- BOUNDARY OF SURVEY
- SECTION LINE
- RIGHT OF WAY LINE
- CENTERLINE
- BUILDING SETBACK (BSL)
- EASEMENT (UE)
- G — GAS MAIN
- W — WATERMAIN
- OE — OVERHEAD ELECTRIC LINE
- UGE — UNDERGROUND ELECTRIC
- OT — OVERHEAD TELEPHONE LINE
- UGT — UNDERGROUND TELEPHONE
- DT — DRAIN TILE LINE
- X — X — FENCE LINE
- STORM SEWER
- SANITARY SEWER
- CURB AND GUTTER
- DEPRESSED CURB
- 847 — EXISTING CONTOUR LINE
- DECIDUOUS SHRUB
- CONIFEROUS SHRUB
- DECIDUOUS TREE
- CONIFEROUS TREE
- STUMP
- TELEPHONE POLE
- TELEPHONE PEDESTAL
- CABLE TV RISER
- POWER POLE
- ELEC. PAD W/ TRANS.
- GAS METER/REGULATOR
- MANHOLE FOR ELECTRIC
- GUY WIRE
- STREET LIGHT
- FIRE HYDRANT
- MANHOLE
- CO CLEANOUT
- WATER VALVE
- GAS VALVE
- DROP INLET
- INLET
- SIGN

SURVEY

- STEEL PIN FOUND
- STEEL PIN SET
- SET SURVEY NAIL
- R.O.W. MARKER
- CHISELED "X"
- STONE FOUND

PROPOSED

- PROPOSED SANITARY SEWER
- PROPOSED SANITARY MANHOLE
- PROPOSED SANITARY SERVICE
- PROPOSED WATER MAIN
- PROPOSED WATER SERVICE
- PROPOSED WATER VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED STORM SEWER
- PROPOSED STORM INLET
- PROPOSED STORM MANHOLE
- 4"DT PROPOSED DRAIN TILE
- PROPOSED END SECTION
- PROPOSED RIP RAP
- PROPOSED DIRECTION OF FLOW
- T.F.E. PROPOSED 100 YEAR FLOOD ROUTE
- TOP OF FOUNDATION
- 848 PROPOSED CONTOUR LINE
- PROPOSED CURB & GUTTER

UTILITY NOTE:

THE LOCATION AND SIZE OF UNDERGROUND UTILITIES SHOWN ON THIS DRAWING ARE BASED UPON INFORMATION PROVIDED BY OTHERS. WENDLER ENGINEERING SERVICES, INC. MAKES NO GUARANTEE OR WARRANTY, EXPRESSED OR IMPLIED, FOR THE ACCURACY AND LOCATION OF THE UNDERGROUND UTILITIES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123.

ELECTRIC:	COMED	630-576-7094
CABLE:	COMCAST	224-229-5862
TELEPHONE:	FRONTIER COMMUNICATIONS	815-895-1515
GAS:	NICOR	630-388-2362
WATER, SANITARY, STORM	CITY OF MENDOTA:	815-539-6307

wendler
wendler engineering services, inc.
©GROUNDBREAKING SOLUTIONS
engineers - surveyors - scientists
www.wendlergs.com ph: 815.288.2261

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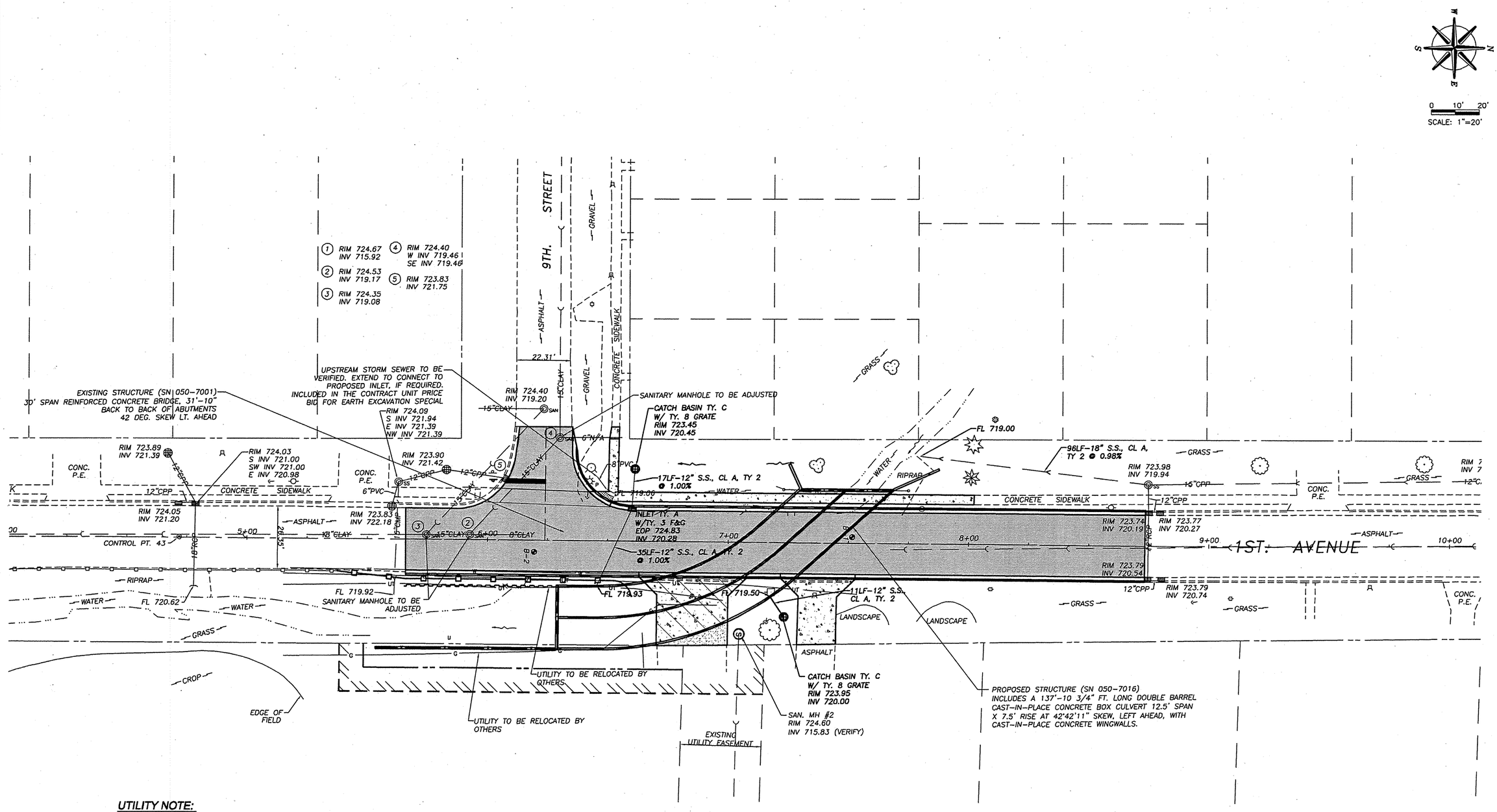
FILE NAME = 2070388-2011.dwg	DATE - 02/01/2017	REVISED -	

LASALLE COUNTY - CITY OF MENDOTA

EXISTING & DEMOLITION PLAN

SCALE: 1"=20' | SHEET - OF - SHEETS | STA. - | TO STA. -

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6011	08-00656-00-BR	LASALLE	20	5
WES# 2070388		CONTRACT NO	87657	
	ILLINOIS FED. AID PROJECT	BRS-0099(061)		



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wendler engineering services, inc. GROUNDBREAKING SOLUTIONS engineers · surveyors · scientists
www.wendlergs.com ph: 815.288.2261

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FILE NAME = 2070388-2011.dwg	DATE - 02/01/2017	REVISED -	

LASALLE COUNTY - CITY OF MENDOTA

UTILITY PLAN

SCALE: 1"=20' | SHEET - OF - SHEETS | STA. - | TO STA. -

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6011	08-00656-00-BR	LASALLE	20	6
WES# 2070388		CONTRACT NO		87657
		ILLINOIS FED. AID PROJECT		BRS-0099(061)

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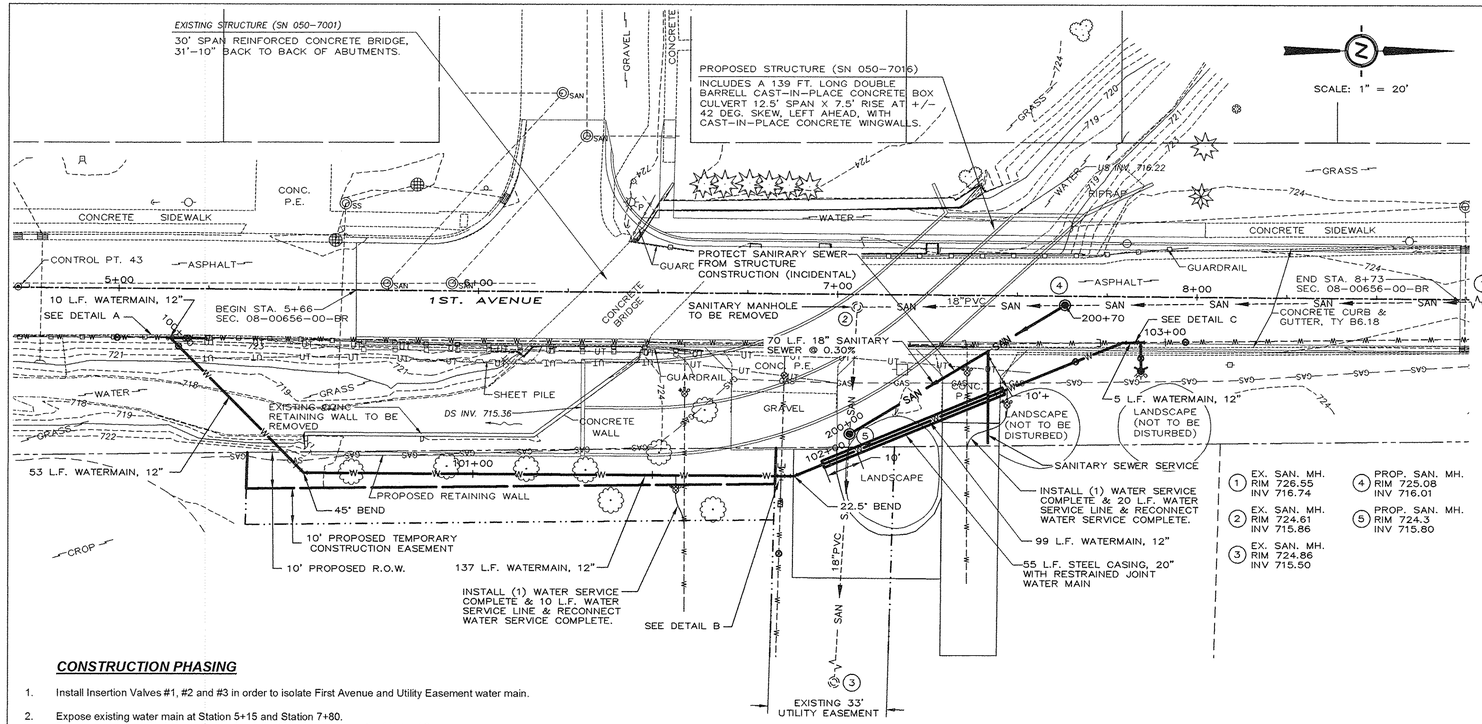
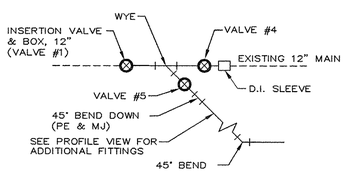
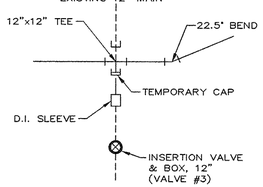


CONSTRUCTION PHASING

1. Install Insertion Valves #1, #2 and #3 in order to isolate First Avenue and Utility Easement water main.
2. Expose existing water main at Station 5+15 and Station 7+80.
   Remove a portion of existing water main north of Valve #1 and south of Valve #2.
   Install wye, Valves #4 and #5, sleeve, fire hydrant assembly, 22.5 degree bend, cap, Valve #6 and water main.
   Open Valve #1 and #4 and close all other Valves.
3. Construct water main with tee, temporary cap, corporation stops, casing, etc. to previous water main constructed at North end. Construct tee and plug at Utility Easement under existing water main so as not to disturb water supply.
4. Close Valve #4, open Valve # 5 and #6 and fill and flush water main through new fire hydrant.
   Close Valve #5 and #6 and open Valve #4.
5. Perform pressure test and bacteriological testing.
6. Install water services complete, water service lines and reconnect.
7. Close Valve #4 and connect water main to Valve #3. Abandon old water main and Valve #4 in place.
8. Open all other valves used to isolate various parts of the project to complete a looped system.
9. Construct sanitary sewer as per plans.



DETAIL A
NOT TO SCALE



DETAIL B
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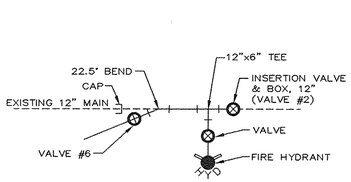


DETAIL C
NOT TO SCALE

SUMMARY OF QUANTITIES

PAY ITEM	DESCRIPTION	QUANTITY	UNIT
20800150	TRENCH BACKFILL	70	CU YD
56100050	DUCTILE IRON WATER MAIN TEE, 12" X 6"	1	EACH
56100065	DUCTILE IRON WATER MAIN TEE, 12" X 12"	1	EACH
56103000	DUCTILE IRON WATER MAIN 6"	10	FOOT
56103300	DUCTILE IRON WATER MAIN 12"	304	FOOT
56104900	WATER VALVES 6"	1	EACH
56105200	WATER VALVES 12"	3	EACH
56105702	INSERTING VALVES 12"	3	EACH
56109412	DUCTILE IRON WATER MAIN FITTINGS 12" 22.50 DEGREE BEND	2	EACH
56109424	DUCTILE IRON WATER MAIN FITTINGS 12" 45.00 DEGREE BEND	5	EACH
56200300	WATER SERVICE LINE 1"	30	FOOT
56201400	CORPORATION STOPS 1"	2	EACH
56400600	FIRE HYDRANTS	1	EACH
X0323760	SANITARY SEWER SERVICE, 6" PVC, COMPLETE	1	EACH
X0324930	DUCTILE IRON SLEEVE, 12"	2	EACH
X5610004	DUCTILE IRON WATER MAIN FITTINGS*	490	POUND
X5610012	CAP EXISTING WATER MAIN	3	EACH
X5620030	WATER SERVICE CONNECTION 1"	2	EACH
X6022820	MANHOLES, SANITARY, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	2	EACH
X6026054	SANITARY MANHOLES TO BE REMOVED	1	EACH
Z0015000	CURB STOPS 1"	2	EACH
Z0056800	SANITARY SEWER 6"	10	FOOT
Z0057300	SANITARY SEWER 18"	86	FOOT
Z0067700	STEEL CASINGS 20"	55	FOOT

* ITEM # X5610004 IS FOR 1 EACH DUCTILE IRON WYE, 12"x12"

CITY OF MENDOTA WATER AND SEWER MATERIAL SPECIFICATIONS

The Illinois Department of Transportation "Standard Specifications for Road and Bridge Construction" adopted April 1, 2016 and the "Standard Specifications for Water & Sewer Main Construction in Illinois" June 2014 or current revision shall govern applicable portions of this project.

A. Water Main

1. Class 52 Ductile Iron Pipe (cement lined) with push-on joints

B. Water Main Fittings: (Tees, Elbows, Wyes, Plugs, Caps, Etc.)

1. Compact Ductile Iron MJ Fittings --- Must be American made AWWA-C-153 and include pipe restraint system. (Mega-Lug or equal)

C. Hydrants

1. Mueller Centurion A423 with 6" MJ Shoe and AQUAGRIP system.
2. Waterous WB67-250 with 6" Shoe and ALPHA ends.

All Hydrants to have:

Stainless Steel Bolts on Shoe
5 ft. bury
(2) 2 ½" Hose Nozzle
(1) 4 ½" Pumper Nozzle
1" Square Operating Nut & Nozzle Caps
Open Right
Bleed Back Cap

D. Water Main Valves

1. Mueller A-2361 Resilient Wedge Gate Valve with AQUAGRIP System
2. Waterous 2500Series Gate Valve with ALPHA ends

E. Insertion Valves

1. Advanced Valve Technologies, Inc. EZ Valve System

F. Service Tapping Saddles (on PVC Pipe)

1. Smith-Blair and Cascade, Epoxy Coated Body with Mueller CC Thread Outlet and Double Stainless Steel Straps
2. Ductile Iron Pipe may be direct tap

G. Water Service Fittings

1. Mueller Brass Compression Fittings to be used on all Service Fittings

H. Corporation Stops

1. Mueller #H15000 with CC Thread
2. Mueller #H15069 – 90 Degree Swivel

I. Curb Stops

1. Mueller Mark 3 #H1504-2 (Compression X Compression)

J. Service Boxes

1. Tyler Service Box (95E)---(30T-39B) Stamped WATER on Lid

K. Valve Boxes

1. Tyler 664s—2 pc. Cast Iron (26T-36B) Stamped WATER on Lid
   Note: Must be American made and no Welded-On Threads allowed

L. Water Service Line

1. Type K Soft Copper Tubing, 1" or larger
2. SDR-9 polyethylene tubing with a rating of 200 psi, 1" or larger and with 10 gauge stranded, covered and insulated tracing wire

M. Sewer Pipe

1. SDR 26 PVC - ASTM D3034

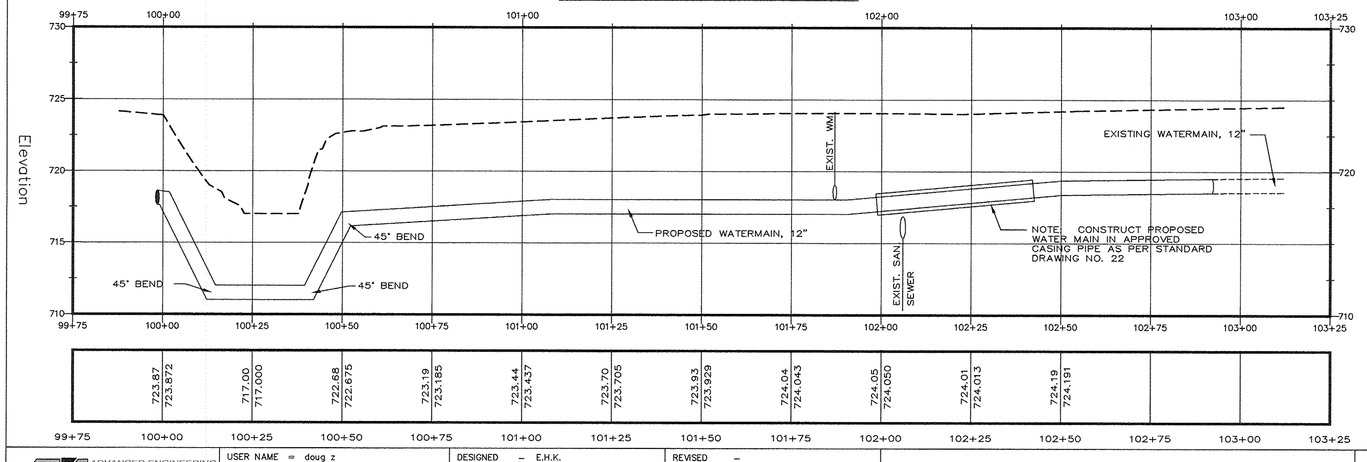
N. Sewer Pipe Fittings

1. All fittings to have Gasketed Joints

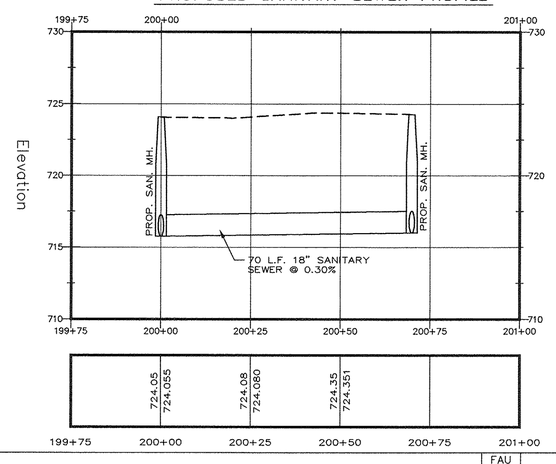
NOTE: Request for Material Deviations must be Approved by:

Water Department Superintendent
City Engineer

PROPOSED WATER MAIN PROFILE



PROPOSED SANITARY SEWER PROFILE



EDWIN H. KING
32958
REGISTERED PROFESSIONAL ENGINEER
STATE OF ILLINOIS
SIGNATURE
11/30/2017
EXPIRES
3/29/2017
DATE

FIRST AVENUE OVER FIRST CREEK
F.A.U. ROUTE 6011
LASALLE COUNTY / CITY OF MENDOTA
SECTION 08-00656-00-BR

REVISED: 3/29/2017
REVISED: 2/22/2017
REVISED: 2/21/2017
REVISED: 2/14/2017
DATE: 1/26/2017

ADVANCED ENGINEERING ASSOCIATES, INC.
1714 FOURTH STREET/BOX 1603 MAIN STREET
PERU, ILLINOIS 61354/MENDOTA, ILLINOIS 61342
PHONE (815) 224-2651/FAX (815) 224-2652
PHONE (815) 539-9393/FAX (815) 539-7120
PROFESSIONAL DESIGN FIRM LICENSE No. 184-001626 E-MAIL ADDRESS — AEA@AEAINC1.com
CIVIL ENGINEERING · LAND SURVEYING · ARCHITECTURE

USER NAME = doug z		DESIGNED – E.H.K.		REVISED –	
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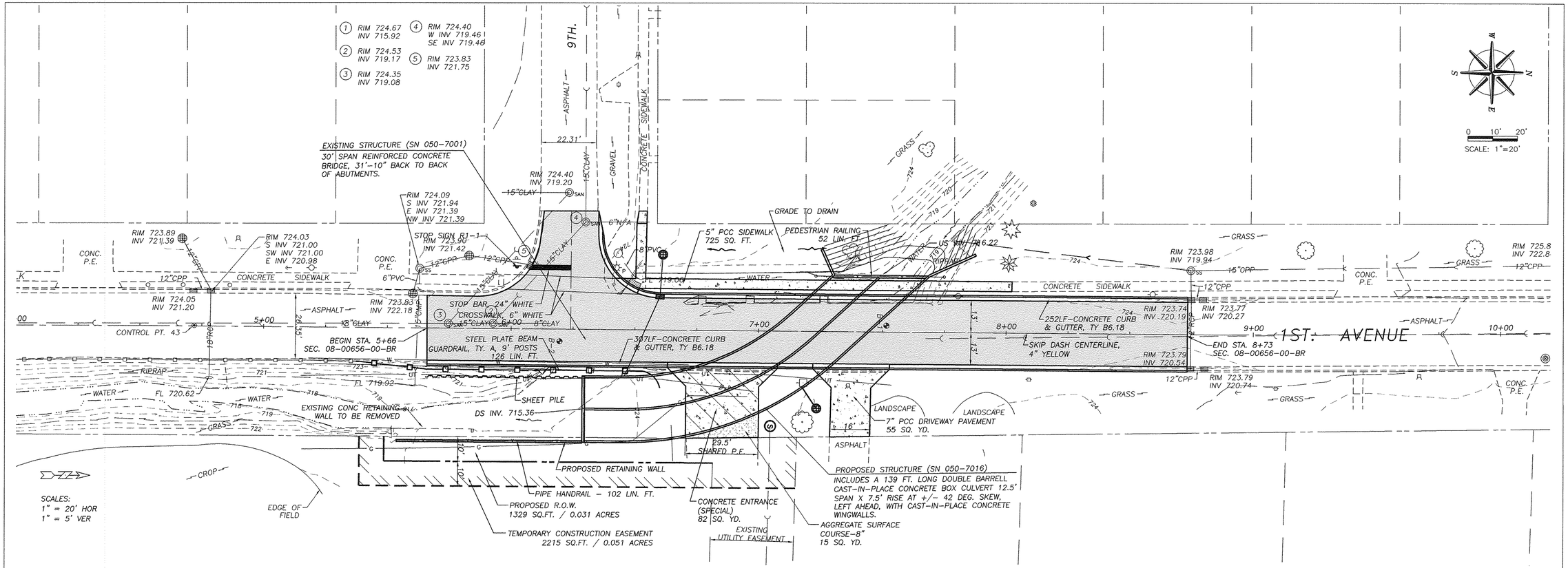
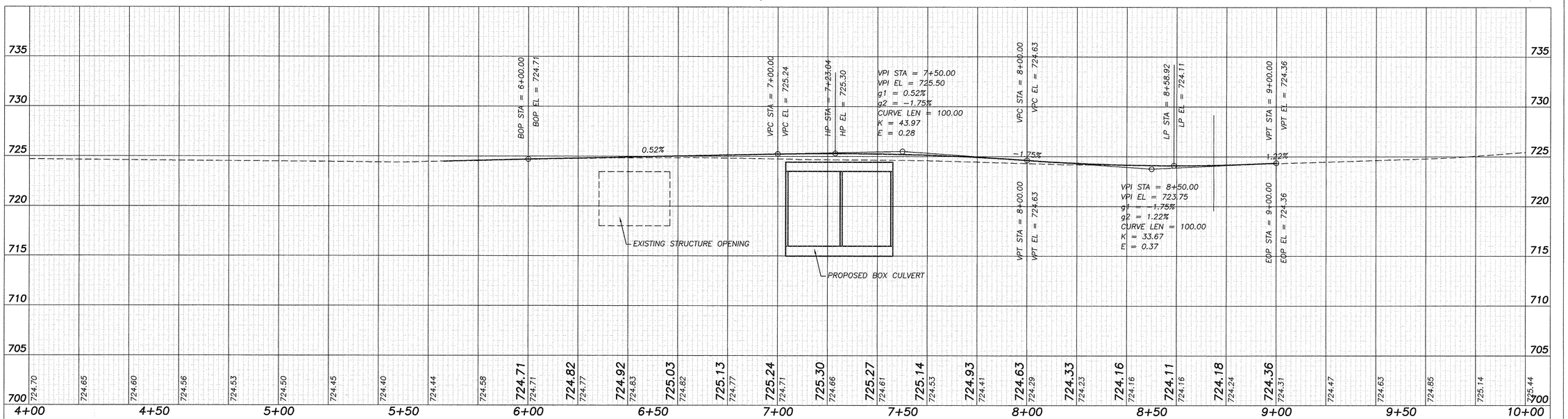
LASALLE COUNTY - CITY OF MENDOTA

WATERMAIN AND SANITARY SEWER RELOCATION

SCALE: 1" = 20' | SHEET – OF – SHEETS | STA. – | TO STA. –

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6011	08-00656-00-BR	LASALLE	–	7
WES# 2070388		CONTRACT NO 87657		
	ILLINOIS	FED. AID PROJECT BRS-0099(06)		





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FILE NAME = rcp01001.dwg	DATE - 02/01/2017	REVISED -	

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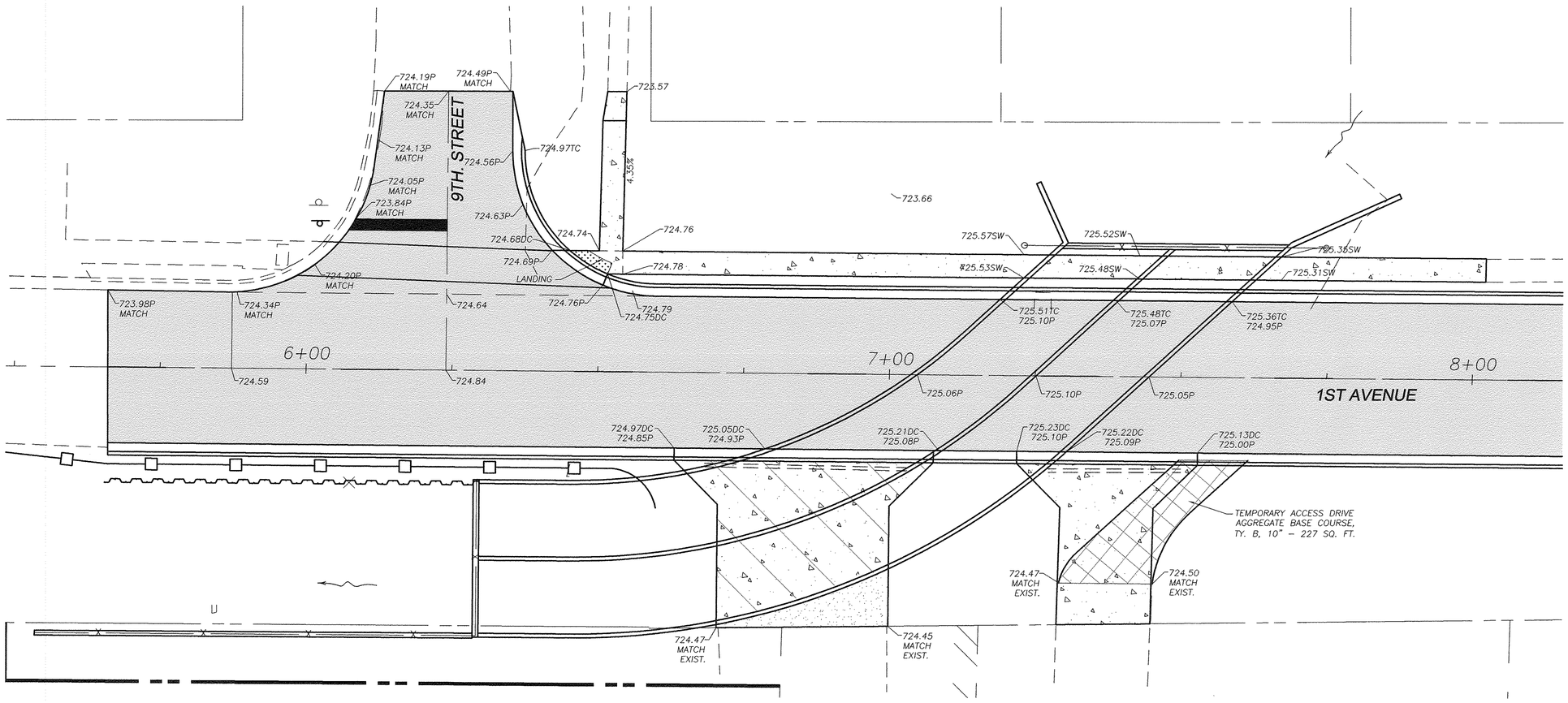
LASALLE COUNTY - CITY OF MENDOTA

PLAN & PROFILE

SCALE: 1"=20' | SHEET - OF - SHEETS | STA. - | TO STA. -

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6011	08-00656-00-BR	LASALLE	20	8
WES# 2070388		CONTRACT NO	87657	
	ILLINOIS FED. AID PROJECT	BRS-0099(061)		



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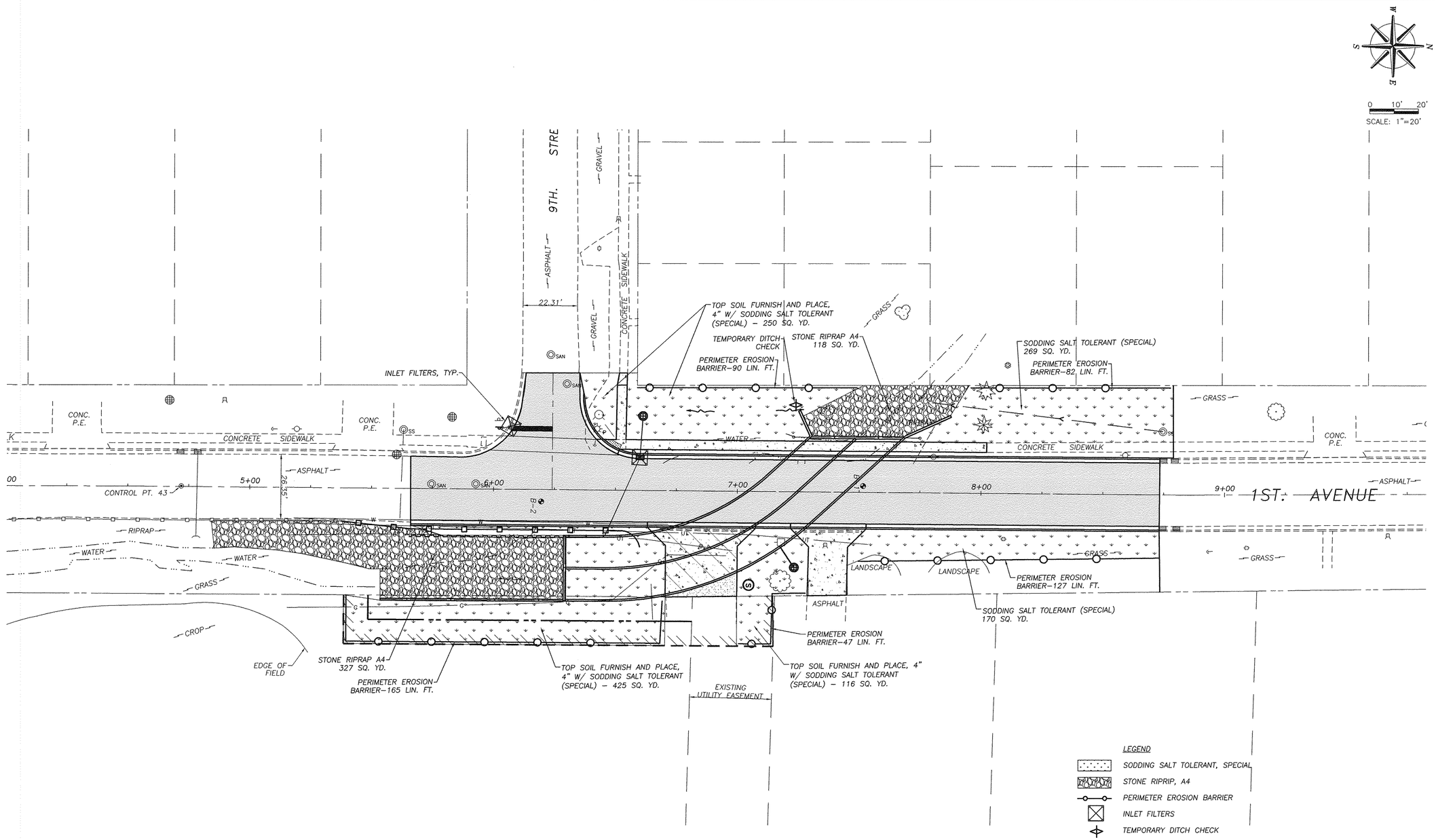
LASALLE COUNTY - CITY OF MENDOTA

INTERSECTION & CULVERT GRADING PLAN

SCALE: 1"=20' | SHEET - OF - SHEETS | STA. - | TO STA. -

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6011	08-00656-00-BR	LASALLE	20	9
WES# 2070388		CONTRACT NO	87657	
	ILLINOIS FED. AID PROJECT	BRS-0099(061)		



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USER NAME = brianschumaker	DESIGNED - SAB	REVISED -	
PLOT SCALE = -	DRAWN - BDS	REVISED -	
PLOT DATE = 3/30/17	CHECKED - -	REVISED -	
FILE NAME = 2070388-2011.dwg	DATE - 02/01/2017	REVISED -	

LASALLE COUNTY - CITY OF MENDOTA

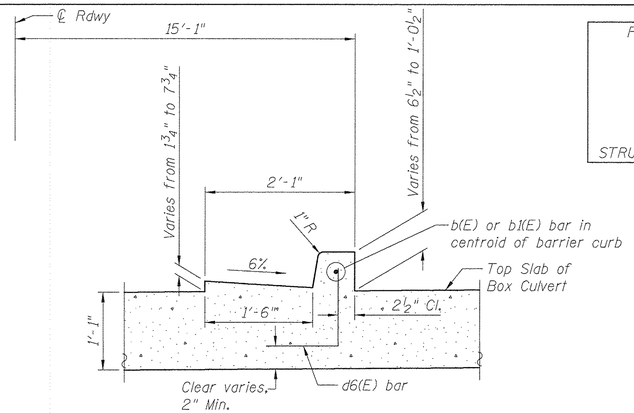
EROSION CONTROL PLAN

SCALE: 1"=20' | SHEET - OF - SHEETS | STA. - | TO STA. -

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6011	08-00656-00-BR	LASALLE	20	10
WES# 2070388		CONTRACT NO		87657
	ILLINOIS FED. AID PROJECT	BRS-0099(061)		

FIRST AVENUE OVER FIRST CREEK
BUILT 2017 BY
CITY OF MENDOTA
LASALLE COUNTY
SEC. 08-00656-00-BR
STATION 7+24.62
STRUCTURE NO. 050-7016 LOADING HL-93

NAME PLATE
See Std. 515001



CONCRETE CURB AND GUTTER FORMED ON TOP SLAB DETAIL

West curb and gutter shown looking south. East curb and gutter similar, opposite hand.
Curb and gutter shall conform to shape of B-6.18 concrete curb and gutter.

PLAN

Limits of Concrete Curb & Gutter (CC&G) to be constructed monolithically with Concrete Box Culvert is shown. CC&G outside these limits is paid for separately. See roadway drawings.
***Cost of this length of CC&G is included in Concrete Box Culverts and is not paid separately.
*****40-#4 d6(E) bars at 12" cts. in curb as shown in detail.

DESIGN SPECIFICATIONS
2014 AASHTO LRFD Bridge Design Specifications,
7th Edition with 2015 & 2016 Interims

DESIGN STRESSES
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.

I certify that to the best of my knowledge, information and belief, this 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 "AASHTO LRFD Specifications for Highway Bridges".

WENDLER ENGINEERING SERVICES, INC.
Illinois Professional Design Firm No. 184-000848
LICENSED STRUCTURAL ENGINEER
SCOTT A. BROWN
081-005981
STATE OF ILLINOIS
Scott Brown 4/3/17
DATE
SCOTT A. BROWN
DIXON, ILLINOIS
ILLINOIS LICENSED STRUCTURAL ENGINEER NO. 081-005981
EXPIRES 11-30-2018

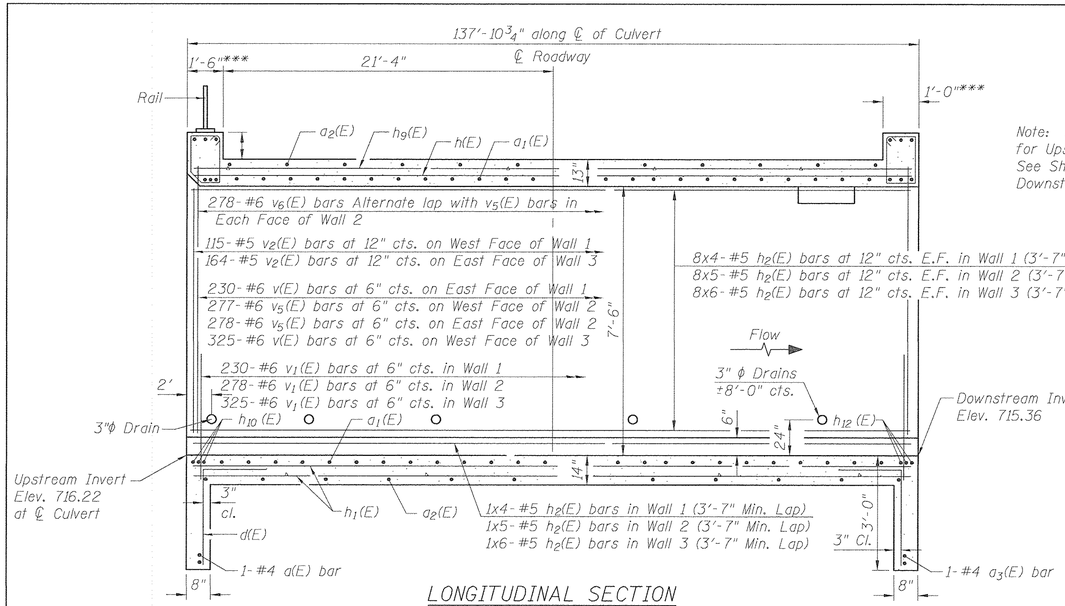
wendler	USER NAME = Bryan_Hartmann	DESIGNED -	REVISED
		CHECKED -	REVISED
	PLOT SCALE = 0:1.0000 '' / in.	DRAWN -	REVISED
	PLOT DATE = 3/31/2017	CHECKED -	REVISED

CITY OF MENDOTA

BOX CULVERT & WINGWALLS PLAN
STRUCTURE NO. 050-7016
SHEET NO. 11 OF 20 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6011	08-00656-00-BR	LASALLE	20	11
	WES# 2070388			
	ILLINOIS FED. AID PROJECT	BRS-0099(061)		

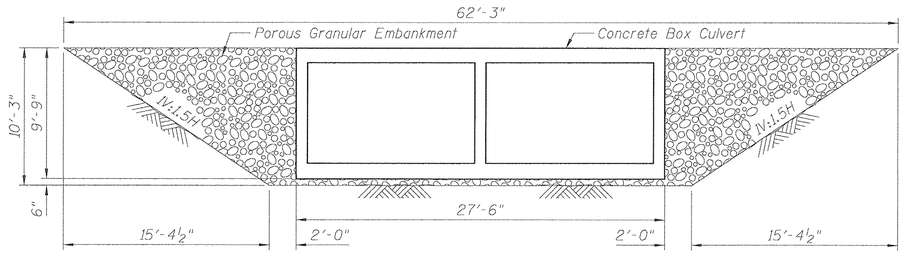
3/31/2017 9:43:47 AM F:\2017_jobs\2070388\dgn\SHEET BOX CULVERT AND WINGWALLS PLAN.dgn



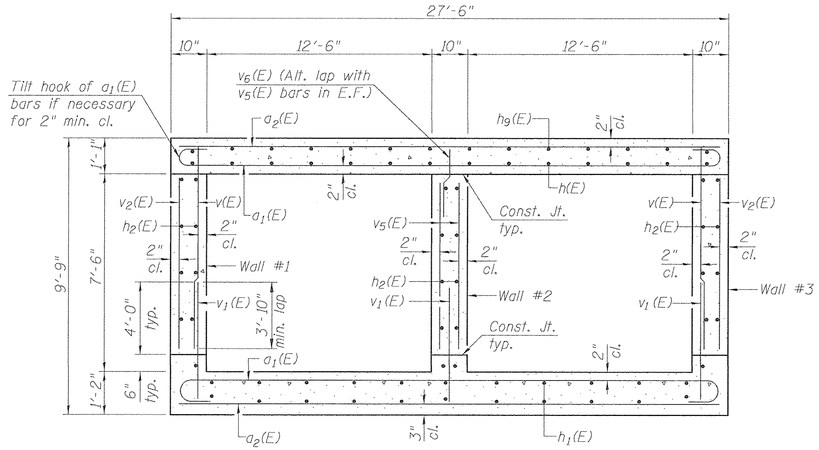
LONGITUDINAL SECTION

(Dimensions at Rt. L's to ℄ Roadway unless noted otherwise)
Looking North Upstation
***Perpendicular to headwall

Note: See Sheet 13 of 20 for Upstream Wingwall Details.
See Sheet 14 of 20 for Downstream Wingwall Details.

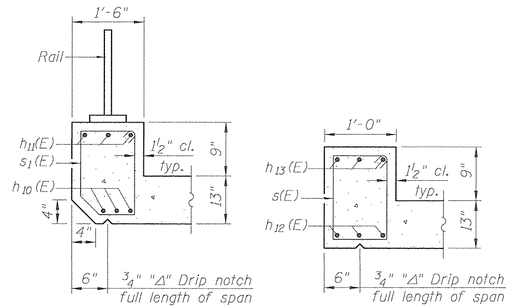


BACKFILL DIAGRAM SECTION THROUGH CAST-IN-PLACE BOX CULVERT



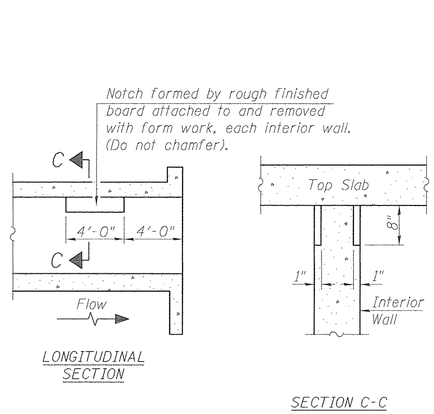
SECTION THRU BARREL

Looking Upstream



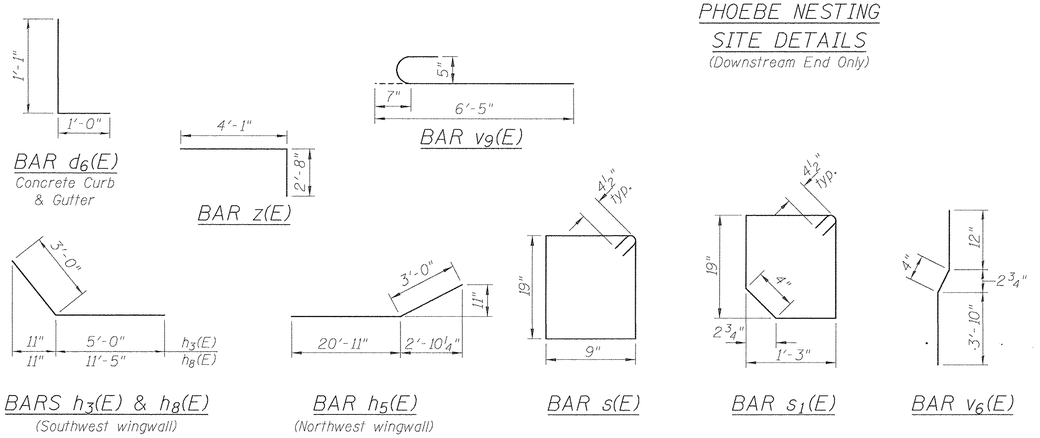
SECTION THRU HEADWALL

Notch formed by rough finished board attached to and removed with form work, each interior wall. (Do not chamfer).



PHOEBE NESTING SITE DETAILS

(Downstream End Only)



Notes:
A distance of half the length of the southwest horizontal cantilever wingwall but not less than six feet of the barrel shall be poured monolithically with the southwest horizontal cantilever wingwall.
Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.
At the Contractor's option, a longer $v_1(E)$ bar may be ordered to replace the v(E) bar. No reduction in quantities shall be made for this substitution.

TSA-SB-HC-LS 10-15-2016

wendler

USER NAME = Bryan_Hartmann	DESIGNED -	REVISED
	CHECKED -	REVISED
PLOT SCALE = 1.0000 ' / in.	DRAWN -	REVISED
PLOT DATE = 3/31/2017	CHECKED -	REVISED

LASALLE COUNTY – CITY OF MENDOTA

BOX CULVERT DETAILS
STRUCTURE NO. 050-7016
SHEET NO. 12 OF 20 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6011	08-00656-00-BR	LASALLE	20	12
WES# 2070388		CONTRACT NO.		87657
	ILLINOIS	FED. AID PROJECT		BRS-0099(061)

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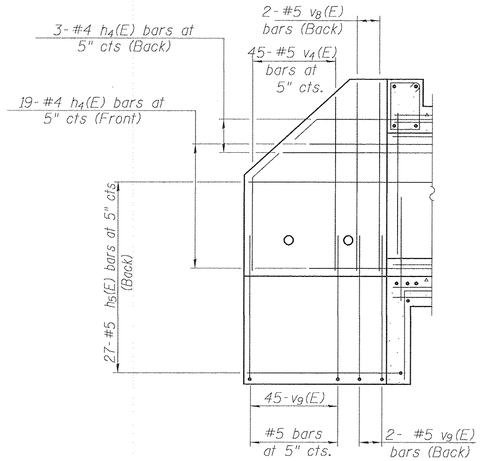
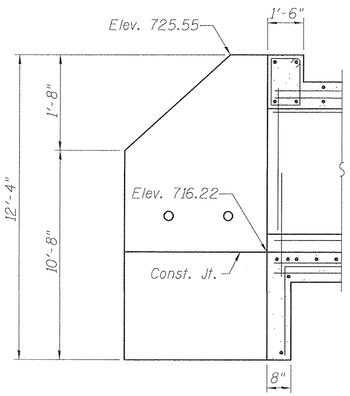
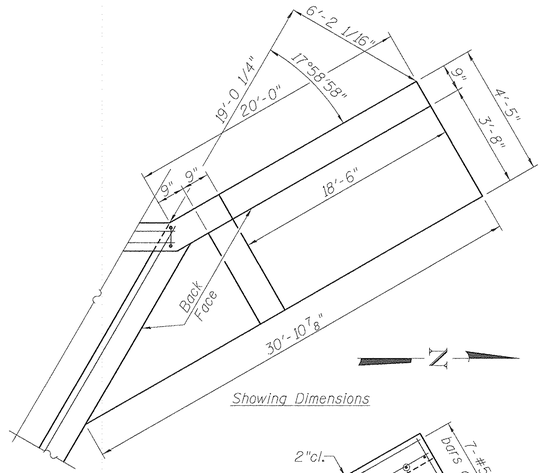


Showing Reinforcement



Showing Dimensions

NORTHWEST WINGWALL ELEVATION



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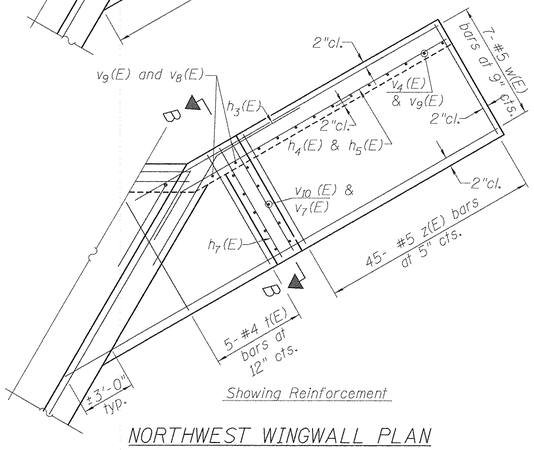
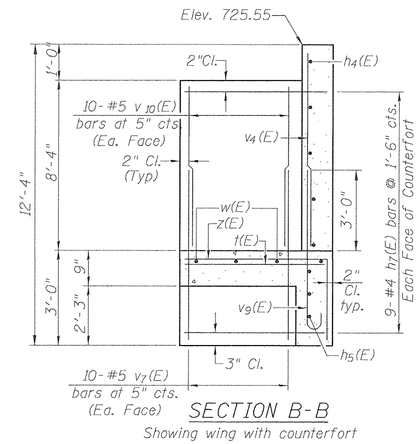


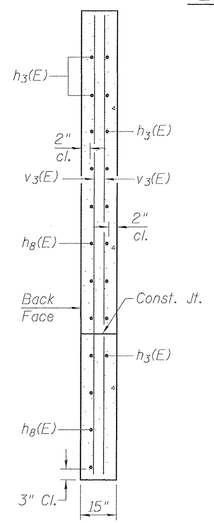
Showing Reinforcement

NORTHWEST WINGWALL PLAN

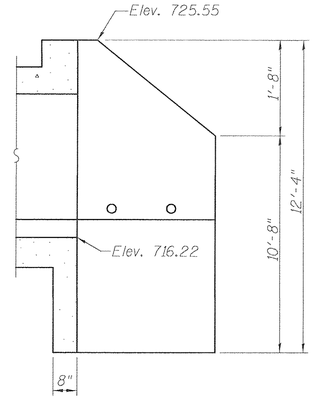


SECTION B-B

Showing wing with counterfort



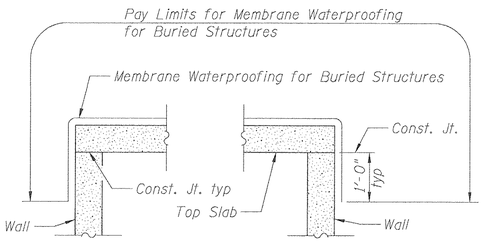
SECTION A-A



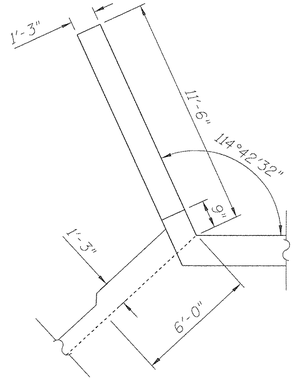
Showing Reinforcement

SOUTHWEST WINGWALL ELEVATION

Showing Dimensions



PARTIAL CROSS SECTION MEMBRANE DETAILS



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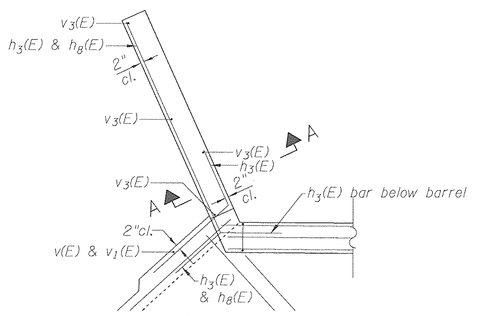


Showing Reinforcement

SOUTHWEST WINGWALL PLAN

BILL OF MATERIAL

for Box Culvert, Northwest & Southwest Wingwalls

Bar	No.	Size	Length	Shape
a (E)	1	#4	27'-2"	
a_1 (E)	439	#7	28'-10"	
a_2 (E)	439	#7	27'-2"	
a_3 (E)	1	#4	39'-0"	
b (E)	2	#4	26'-8"	
b_1 (E)	2	#4	21'-5"	
d (E)	67	#4	4'-5"	
d_6 (E)	91	#4	2'-1"	
h (E)	140	#7	36'-0"	
h_1 (E)	280	#6	35'-6"	
h_2 (E)	255	#5	31'-3"	
h_3 (E)	21	#6	8'-0"	
h_4 (E)	22	#4	23'-11"	
h_5 (E)	27	#5	23'-11"	
h_7 (E)	18	#4	4'-1"	
h_8 (E)	25	#6	14'-5"	
h_9 (E)	140	#6	35'-6"	
h_{10}(E)	6	#8	39'-0"	
h_{11}(E)	3	#10	39'-0"	
h_{12}(E)	6	#6	27'-2"	
h_{13}(E)	3	#7	27'-2"	
s (E)	28	#4	5'-5"	
s_1 (E)	39	#4	6'-4"	
t (E)	5	#4	4'-1"	
v (E)	556	#6	7'-9"	
v_1 (E)	834	#6	5'-5"	
v_2 (E)	279	#5	6'-8"	
v_3 (E)	4	#4	12'-0"	
v_4 (E)	45	#5	9'-0"	
v_5 (E)	555	#6	6'-8"	
v_6 (E)	278	#6	5'-2"	
v_7 (E)	20	#5	5'-10"	
v_8 (E)	2	#5	9'-0"	
v_9 (E)	47	#5	6'-5"	
v_{10}(E)	20	#5	8'-0"	
w (E)	7	#5	33'-3"	
z (E)	45	#5	6'-9"	
Concrete Box Culverts		Cu. Yd.	439.5	
Reinforcement Bars, Epoxy Coated		Pound	119,930	
Membrane Waterproofing for Buried Structures		Sq. Yd.	444	

WATERWAY INFORMATION

Drainage Area = 2.5 sq. miles		Low Grade Elev. = 724.11 at Roadway Sta. 8+58.92								
					Existing Structure and Channel			Proposed Structure		
Flood	Frequency	Q	Opening Sq. Ft.		Natural	Head	Headwater	Natural	Head	Headwater
	Year	(cfs)	Existing	Proposed	H.W.E.*	Feet	Elev.*	H.W.E.	Feet	Elev.*
Design	30	1130	140	187.5	726.39	-0.12	726.27	726.39	-2.11	724.28
Base	100	1570	140	187.5	726.84	-0.12	726.72	726.84	-1.05	725.79
Overtopping										
Max Calc.	500	2200	140	187.5	727.72	0.02	727.74	727.72	-1.24	726.48

*Note: HWE are compared at the upstream end of the proposed culvert (RS 2117 in HEC RAS output).

3/31/2017 8:18:25 AM F:\2017_jobs\2170388\dgn\Culvert Details.dgn

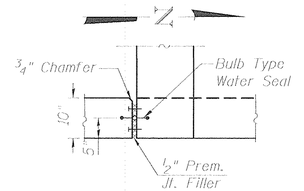
wendler

USER NAME = Bryan_Hartmann	DESIGNED -	REVISED
	CHECKED -	REVISED
PLOT SCALE = 1.0000 ' / in.	DRAWN -	REVISED
PLOT DATE = 3/31/2017	CHECKED -	REVISED

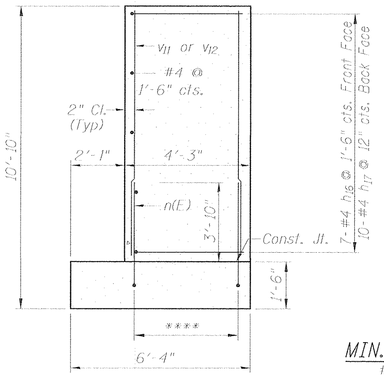
LASALLE COUNTY – CITY OF MENDOTA

UPSTREAM WINGWALL DETAILS
STRUCTURE NO. 050-7016
SHEET NO. 13 OF 20 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6011	08-00656-00-BR	LASALLE	20	13
WES# 2070388		CONTRACT NO.		87657
	ILLINOIS FED. AID PROJECT			BRS-0099(061)

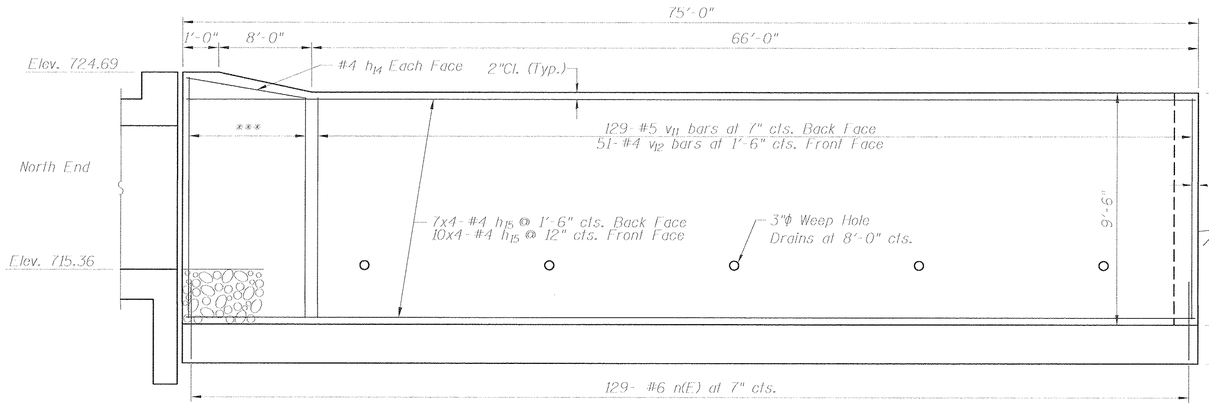


CORNER DETAIL AT SOUTHEAST BOX CORNER



SECTION E-E

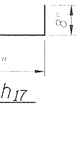
**** 7-#6 n(E) bars @ 7" cts. Back Face
7-#5 v_{11} bars @ 7" cts. Back Face
3-#4 v_{12} bars @ 1'-6" cts. Front Face



***15-#5 v_{13} bars at 7" cts. Back Face (Cut to Fit)
6-#4 v_{14} bars at 1'-6" cts. Front Face (Cut to Fit)

"T" WINGWALL WEST ELEVATION

Looking East

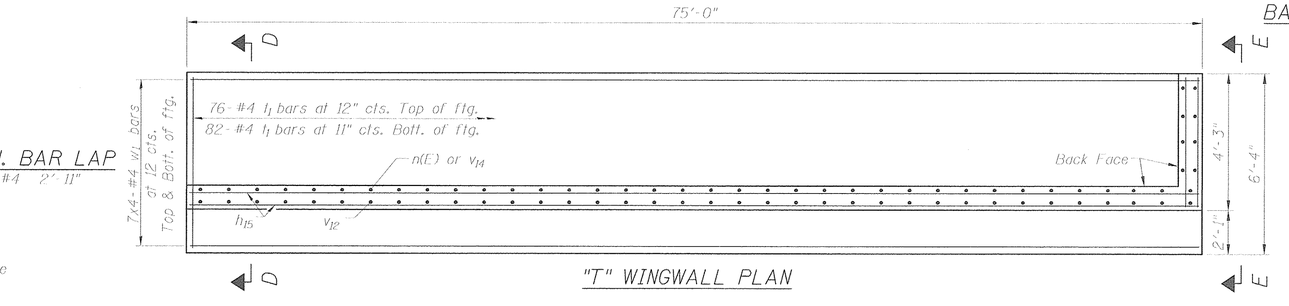


BAR h_{17}

BAR n(E)

SECTION D-D

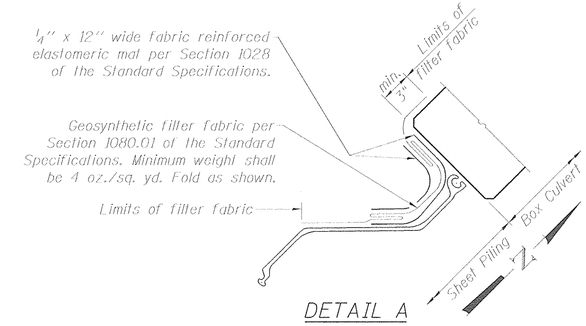
(Max. Applied Service Bearing Pressure = 2.52 ksf)



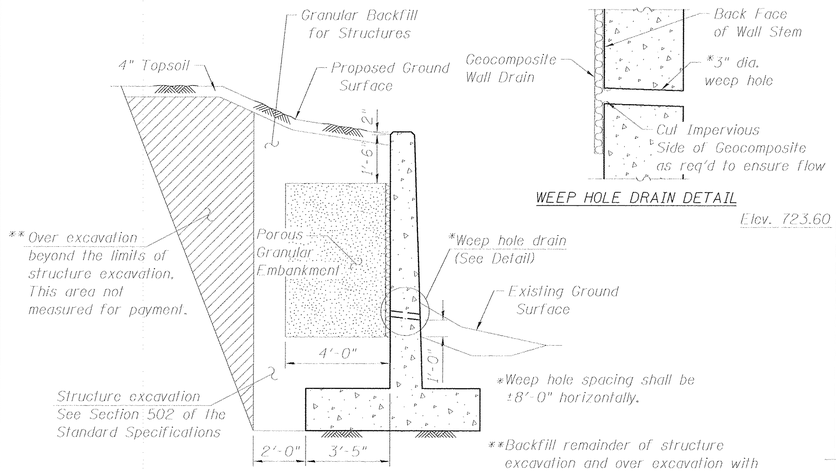
"T" WINGWALL PLAN

MIN. BAR LAP

#4 2'-11"

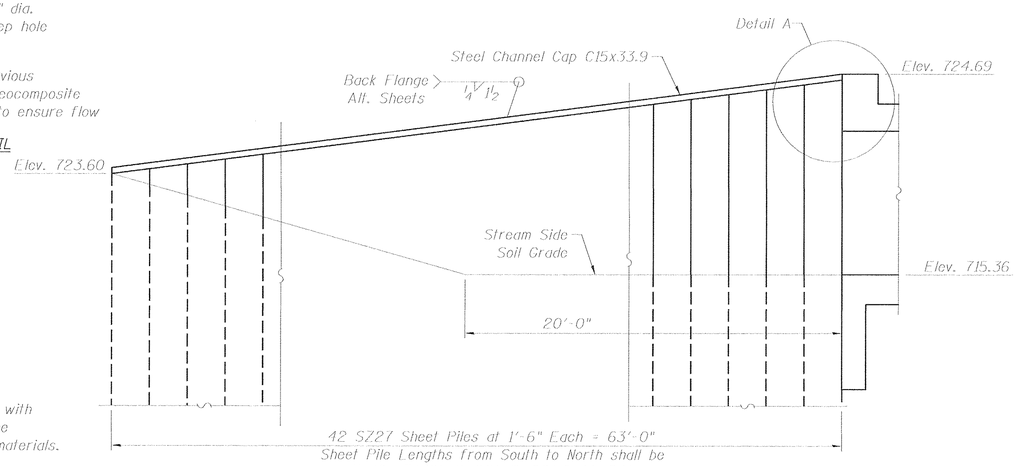


DETAIL A



WEEP HOLE DRAIN DETAIL

DRAINAGE DETAILS FOR T-TYPE WALL WITH WEEP HOLE OUTLET



STEEL SHEET PILING EAST ELEVATION

Looking West

BILL OF MATERIAL

For "T" type Wingwall

Bar	No.	Size	Length	Shape
h_{14}	2	#4	9'-0"	—
h_{15}	68	#4	20'-3"	—
h_{16}	7	#4	4'-0"	—
h_{17}	10	#4	4'-8"	⌐
n (E)	136	#6	5'-11"	⊂
l_1	158	#4	6'-1"	—
v_{11}	136	#5	9'-4"	—
v_{12}	54	#4	9'-4"	—
v_{13}	15	#5	11'-2"	—
v_{14}	6	#4	11'-2"	—
w_1	56	#4	20'-3"	—
Concrete Structures			Cu. Yd.	49.7
Reinforcement Bars			Pound	4,260
Reinforcement Bars, Epoxy Coated			Pound	1210
Permanent Sheet Piling			Sq. Ft.	1302
Furnishing & Erecting Structural Steel			Pound	1695.0
Geocomposite Wall Drain			Sq. Yd.	41.7

wendler

USER NAME = Luke.Nelson	DESIGNED -	REVISED
	CHECKED -	REVISED
PLOT SCALE = 1.0000 '/ in.	DRAWN -	REVISED
PLOT DATE = 4/3/2017	CHECKED -	REVISED

LASALLE COUNTY – CITY OF MENDOTA

DOWNSTREAM WINGWALL DETAILS
STRUCTURE NO. 050-7016
SHEET NO. 14 OF 20 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6011	08-00656-00-BR	LASALLE	20	14
WES# 2070388		CONTRACT NO.		87657
	ILLINOIS FED. AID PROJECT			BRS-0099(061)

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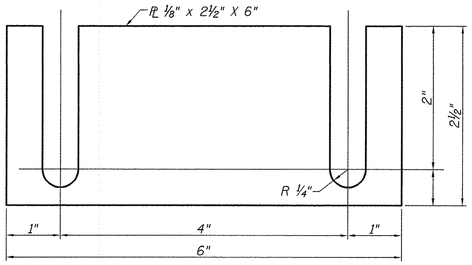
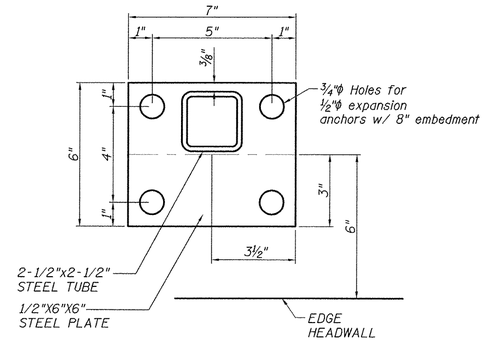
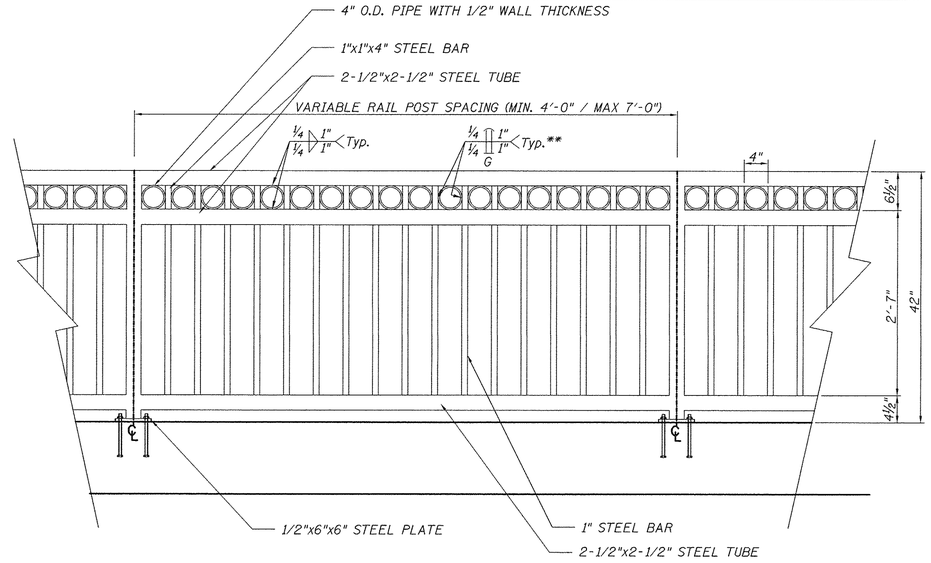


POST SHIM PL DETAIL

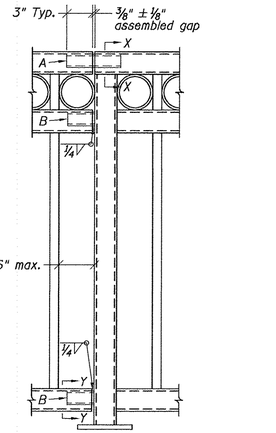
Shim plates shall be galvanized after shap fabrication according to AASHTO M232.



MOUNTING PLATE PLAN

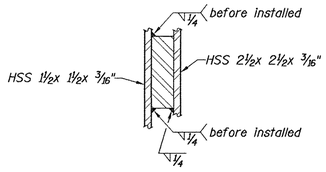


ELEVATION - PEDESTRIAN RAIL

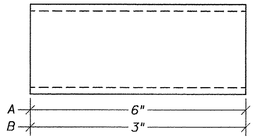


ELEVATION SPLICE DETAIL

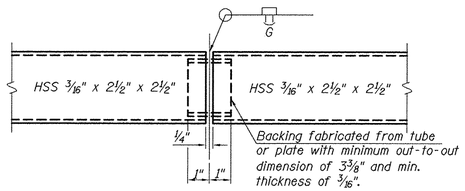
Required at ends and over Piers



SECTION Z-Z

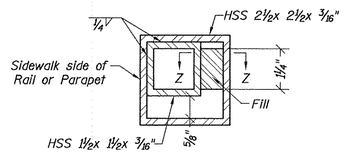


A and B

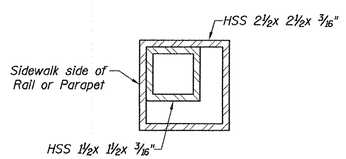


SHOP RAIL SPLICE DETAIL

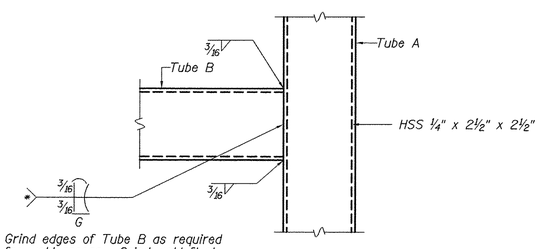
(Locations must be shown on Shop Drawings)



SECTION X-X

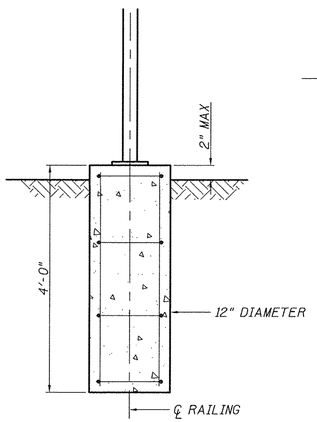


SECTION Y-Y

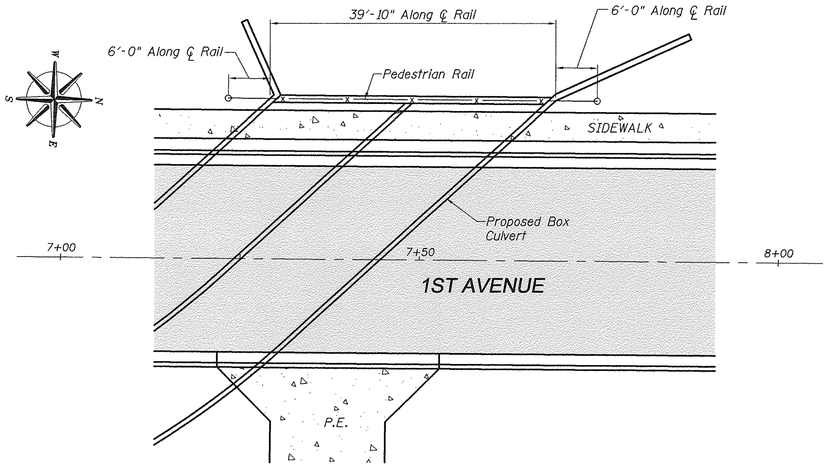


* Grind edges of Tube B as required for weld access. Grind weld flush and smooth on sidewalk side. Transition to fillet welds without interrupting weld.

TYPICAL WELDS AT TUBE INTERSECTS



RAIL END FOUNDATION



PLAN

BILL OF MATERIAL

PEDESTRIAN RAIL	FOOT	52
CONCRETE STRUCTURES	CU YD	0.24
REINFORCEMENT BARS, EXPOY COATED	POUND	50

wendler engineering services, inc. CIVIL/ENGINEERING SOLUTIONS engineers - surveyors - scientists
www.wendlergs.com ph: 815.288.2261

USER NAME = brianschumaker	DESIGNED - SAB	REVISED -	CITY OF MENDOTA	PEDESTRIAN RAIL	
PLOT SCALE = -	DRAWN - BDS	REVISED -			
PLOT DATE = 3/31/17	CHECKED - -	REVISED -			
FILE NAME = pedestrian rail.dwg	DATE - 02/01/2017	REVISED -		SCALE:	SHEET - OF - SHEETS STA. - TO STA. -

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6011	08-00656-00-BR	LASALLE	20	15
WES# 2070388		CONTRACT NO 87657		
ILLINOIS	FED. AID PROJECT BRS-0099(061)			

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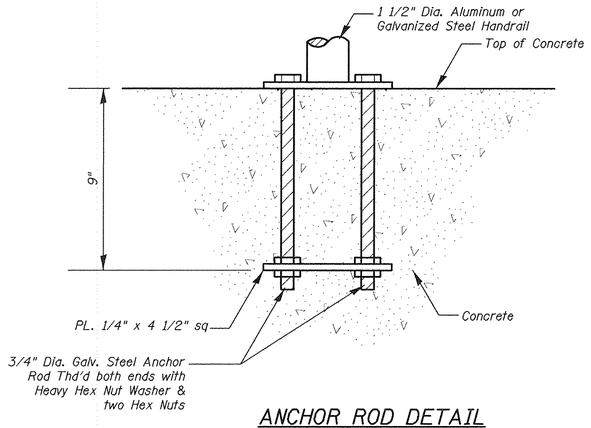
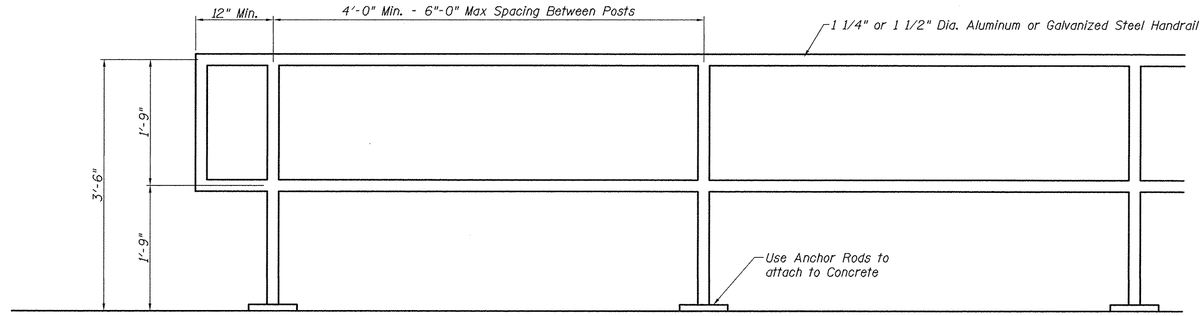
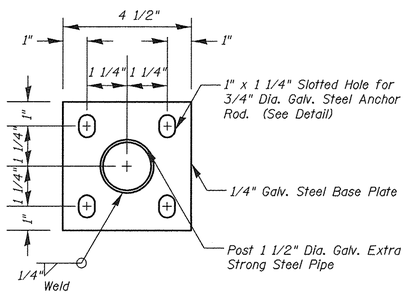


ANCHOR ROD DETAIL

(Included in the cost of Hand or Safety Rail)

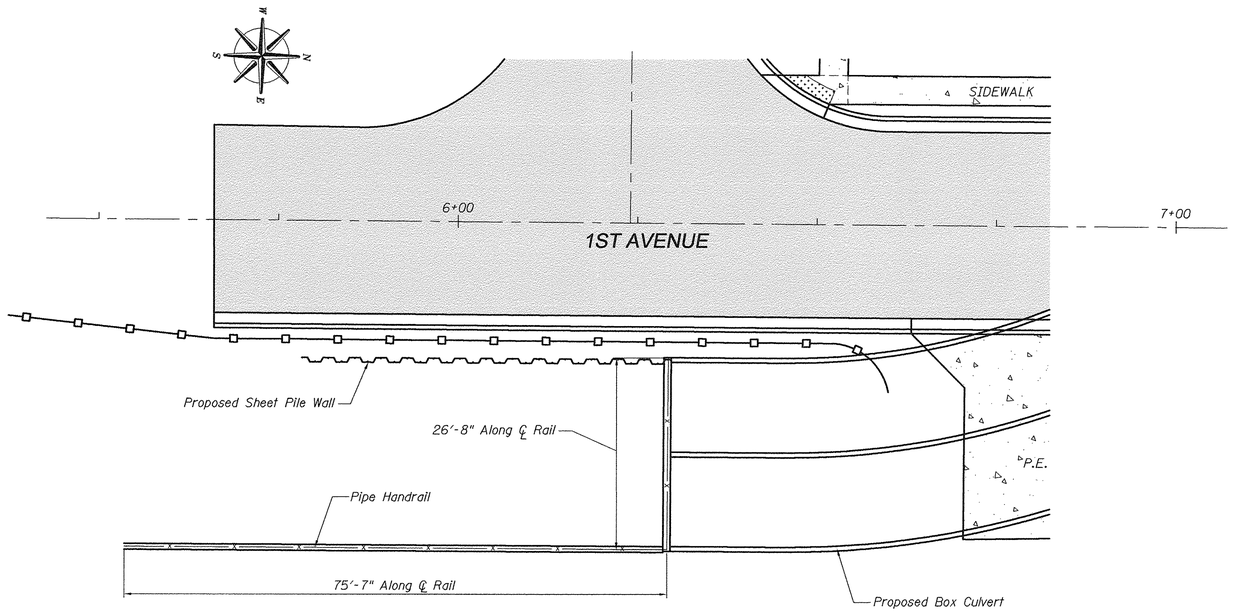


HANDRAIL ELEVATION



POST BASE PLATE DETAIL

(Included in the cost of Hand or Safety Rail)



PLAN

Notes:

Gripping surfaces shall be uninterrupted by newel posts, other construction elements, or obstructions.

Ends of handrail shall be either rounded or returned smoothly to floor, wall, or post.

Hand & safety rails shall not rotate within their fittings.

Handrail shall conform to Section 509 with the exception that all pipe and connections shall be welded galvanized or aluminum according to Article 1006.30, or 1006.34.

The diameter of the gripping surface of the handrail shall be 1-1/4" to 1-1/2"

This work shall be paid for at the contract unit price per FOOT for PIPE HANDRAIL.

BILL OF MATERIAL

PIPE HANDRAIL	FOOT	102

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wendler engineering services, inc.
GROUNDBREAKING SOLUTIONS
engineers-surveyors-scientists
www.wendlergs.com ph: 815.288.2261

USER NAME = brianschumaker	DESIGNED - SAB	REVISED -	
PLOT SCALE = -	DRAWN - BDS	REVISED -	
PLOT DATE = 3/31/17	CHECKED - -	REVISED -	
FILE NAME = pedestrian rail.dwg	DATE - 02/01/2017	REVISED -	

LASALLE COUNTY - CITY OF MENDOTA

PIPE HANDRAIL

SCALE: | SHEET - OF - SHEETS | STA. - | TO STA. -

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6011	08-00656-00-BR	LASALLE	20	16
WES# 2070388		CONTRACT NO 87657		
	ILLINOIS	FED. AID PROJECT	BRS-0099(061)	

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354
Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

BORING LOG

Sheet 1 of 2

Client: Wendler Engineering Services
Project Name: First Ave. Box Culvert over First Creek
Project Site: Section No.: 08-00656-00-BR
Mendota, Illinois

Boring No. B-1
Surface Elev. ~~99.75~~ 724.62
Auger Depth 31' Rotary Depth NA
Start Date 01/18/10 Finish Date 01/18/10

Location: North Abutment West of Centerline
Station: ~~14+21 3' LT~~ ~~4' LT~~ 7+51.6

DRILLED BY: Randy Safranski
Diedrich D-120

(DEPTH) *ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
99.75											
98.75	±9" of Asphalt over ±8" of Aggregate		1								
97.75	Medium Stiff Black/Brown/Gray Silty Clay Fill		2								
96.75			3	1	SS	1.0	7	B	27		
95.75			4								
94.75	Medium Stiff Gray/Brown Silty Clay		5								
93.75			6	2	SS	1.0	5	B	26		
92.75			7								
91.75	Soft Gray very Silty Clay		8	3	SS	0.5	4	B	23		
90.75			9								
89.75	Loose Black/Gray Silt		10	4	SS	---	7	---	20		
88.75			11								
87.75			12								
86.75			13	5	SS	3.8	19	B	14		
85.75			14								
84.75			15								
83.75	Very Stiff to Hard Gray Silty Clay Till		16	6	SS	4.4	23	B	15		
82.75			17								
81.75			18	7	SS	4.6	26	B	15		
80.75			19								
79.75			20	8	SS	5.0	30	B	15		

Water

Groundwater Data: Static water level after auger removal 9' depth.
Comments: ***Assumed center of existing bridge deck as 100.0.***

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354
Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

BORING LOG

Sheet 2 of 2

Client: Wendler Engineering Services
Project Name: First Ave. Box Culvert over First Creek
Project Site: Section No.: 08-00656-00-BR
Mendota, Illinois

Boring No. B-1
Surface Elev. ~~99.75~~ 724.62
Auger Depth 31' Rotary Depth NA
Start Date 01/18/10 Finish Date 01/18/10

Location: North Abutment West of Centerline
Station: 14+21 ~~3' LT~~ ~~4' LT~~ 7+51.6

DRILLED BY: Randy Safranski
Diedrich D-120

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
78.75											
77.75			22								
76.75			23	9	SS	4.4	25	B	17		
75.75			24								
74.75	Very Stiff to Hard Gray Silty Clay Till		25	10	SS	4.3	24	B	18		
73.75			26								
72.75			27								
71.75			28	11	SS	4.1	22	B	18		
70.75			29								
69.75			30	12	SS	4.0	21	B	19		
68.75			31								
67.75			32								
66.75			33								
65.75			34								
64.75			35								
63.75			36								
62.75			37								
61.75			38								
60.75			39								
59.75			40								
58.75			41								

Bottom of Boring

Groundwater Data: Static water level after auger removal 9' depth.
Comments: ***Assumed center of existing bridge deck as 100.0.***

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354
Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

BORING LOG

Sheet 1 of 2

Client: Wendler Engineering Services
Project Name: First Ave. Box Culvert over First Creek
Project Site: Section No.: 08-00656-00-BR
Mendota, Illinois

Boring No. B-2
Surface Elev. ~~100.08~~ 724.77
Auger Depth 31' Rotary Depth NA
Start Date 01/18/10 Finish Date 01/18/10

Location: South Abutment East of Centerline
Station: ~~12+89 5'RT~~ 3.8' RT 6+19.7

DRILLED BY: Randy Safranski, Diedrich D-120

(DEPTH) *ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
100.08											
99.08	±5" of Asphalt over ±9" of Aggregate		1								
98.08			2								
97.08	Medium Stiff Black Silty Clay Topsoil Fill		3	1	SS	1.0	7	S	34		
96.08			4								
95.08			5								
94.08	Medium Stiff Gray/Brown Silty Clay		6	2	SS	0.8	8	B	9		
93.08			7								
92.08			8	3	SS	1.0	8	B	24		
91.08	Very Stiff to Hard Brown/Gray Silty Clay Till		9								
90.08			10	4	SS	4.0	19	B	18		
89.08			11								
88.08			12								
87.08			13	5	SS	3.5	23	B	18		
86.08			14								
85.08			15								
84.08			16	6	SS	3.5	18	B	18		
83.08	Very Stiff to Hard Gray Silty Clay Till		17								
82.08			18	7	SS	3.0	16	B	18		
81.08			19								
80.08	Medium Dense Brown Fine Sand		20	8	SS	---	11	---	10		Water Under Head Pressure

Groundwater Data: Static water level after auger removal 3' depth.
Comments: ***Assumed center of existing bridge deck as 100.0.***

Midwest Testing Services, Inc.
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e-mail: mts37@comcast.net

BORING LOG

Sheet 2 of 2

Client: Wendler Engineering Services
Project Name: First Ave. Box Culvert over First Creek
Project Site: Section No.: 08-00656-00-BR
Mendota, Illinois

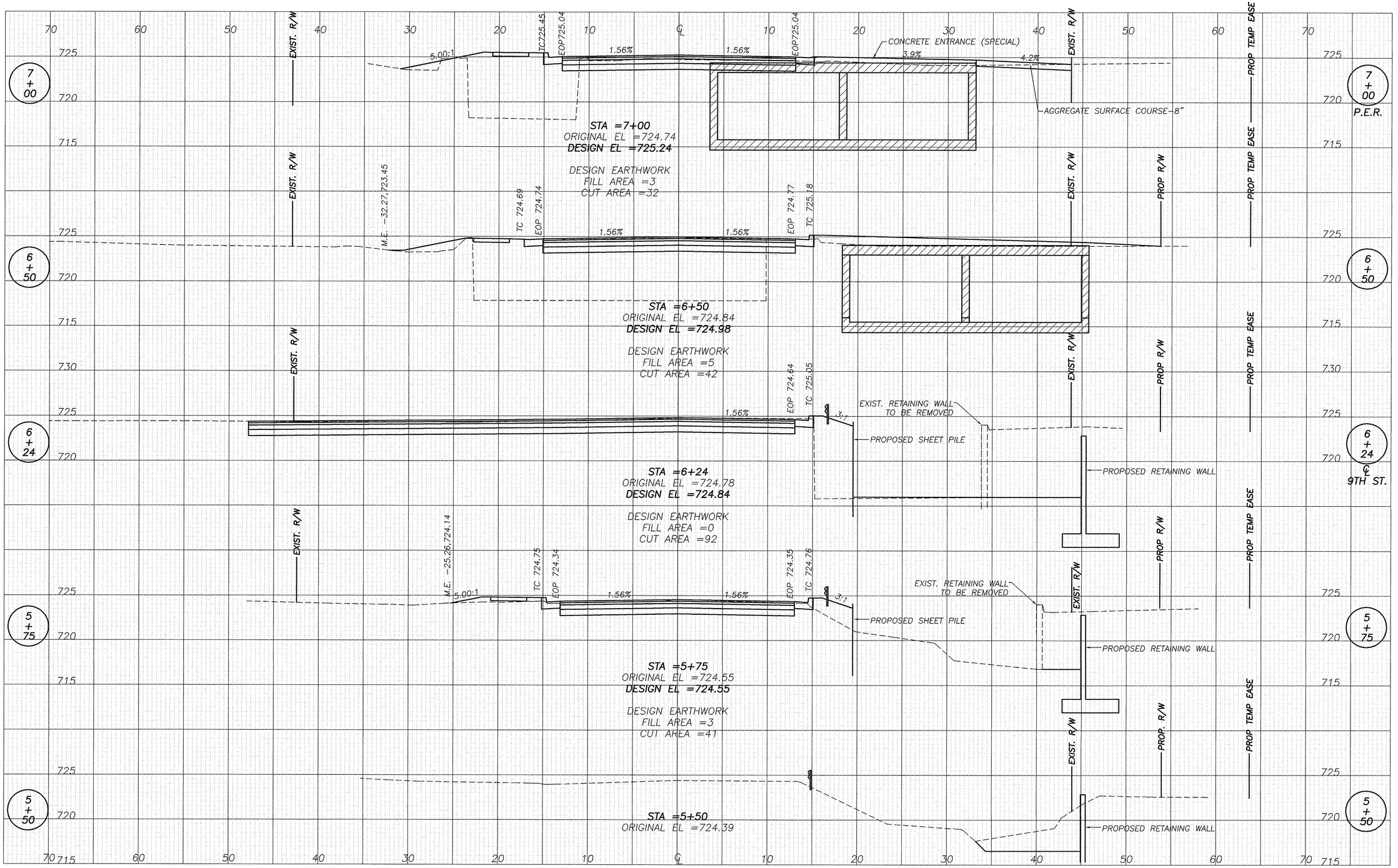
Boring No. B-2
Surface Elev. ~~100.08~~ 724.77
Auger Depth 31' Rotary Depth NA
Start Date 01/18/10 Finish Date 01/18/10

Location: South Abutment East of Centerline
Station: ~~12+89 5'RT~~ 3.8' RT 6+19.7

DRILLED BY: Randy Safranski, Diedrich D-120

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
79.08											
78.08			22								
77.08	Medium Dense Brown Medium to Fine Sand		23	9	SS	---	17	---	9		
76.08			24								
75.08			25								
74.08	Medium Dense Gray/Brown Coarse Gravel		26	10	SS	---	20	---	9		
73.08			27								
72.08			28	11	SS	2.0	18	B	12		
71.08	Very Stiff Brown/Gray Silty Clay Till		29								
70.08			30								
69.08			31	12	SS	2.3	26	B	11		
68.08	Bottom of Boring		32								
67.08			33								
66.08			34								
65.08			35								
64.08			36								
63.08			37								
62.08			38								
61.08			39								
60.08			40								
59.08			41								

Groundwater Data: Static water level after auger removal 3' depth.
Comments: ***Assumed center of existing bridge deck as 100.0.***

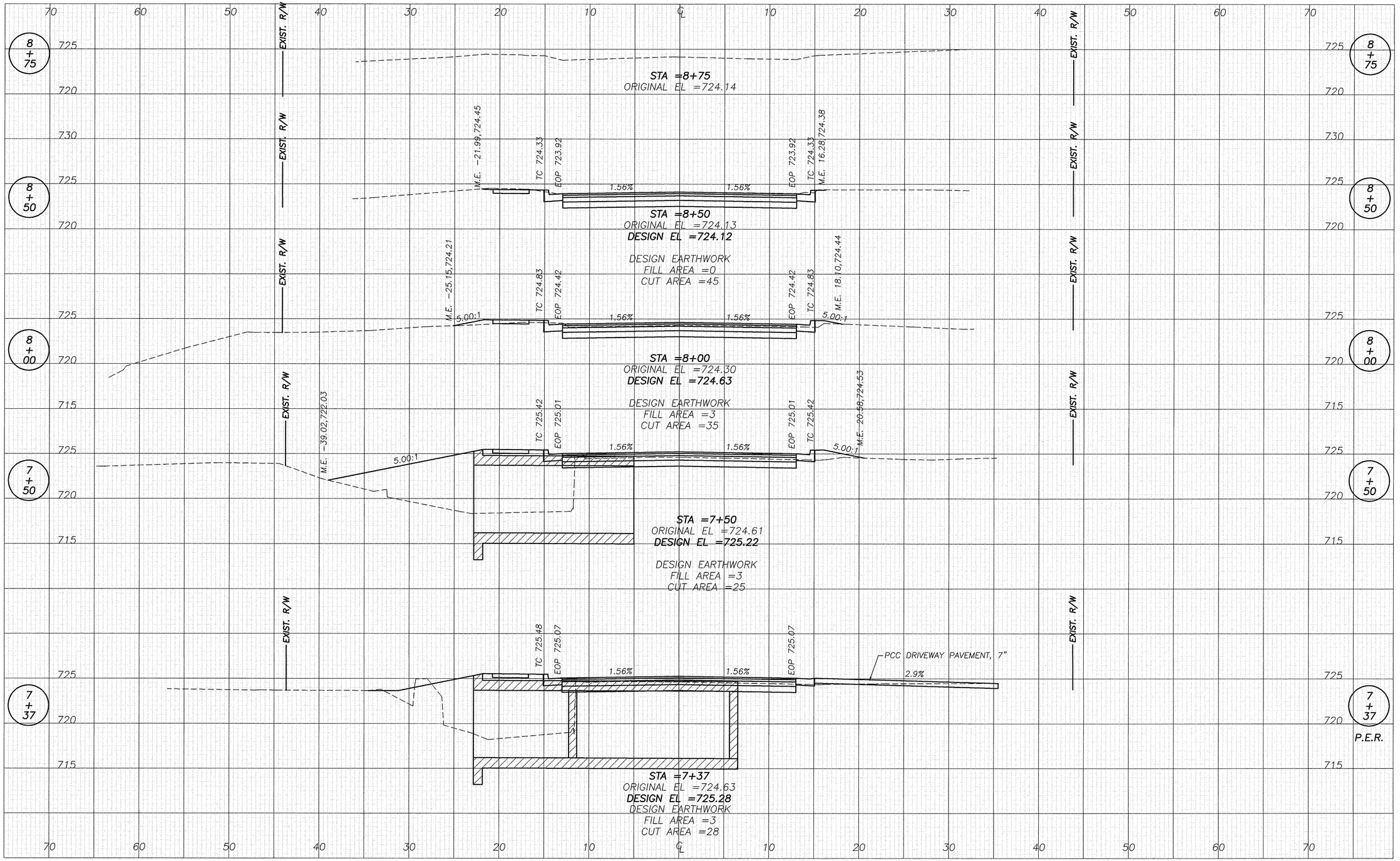


wendler engineering services, inc. GROUNDBREAKING SOLUTIONS engineers · surveyors · scientists	USER NAME = brianschumaker	DESIGNED - SAB	REVISED -	**LASALLE COUNTY - CITY OF MENDOTA**
www.wendlergs.com ph: 815.288.2261	PLOT SCALE = -	DRAWN - BDS	REVISED -	
	PLOT DATE = 3/30/17	CHECKED - -	REVISED -	
	FILE NAME = rc002001.dwg	DATE - 02/01/2017	REVISED -	

CROSS SECTIONS

SCALE: 1"=5' | SHEET - OF - SHEETS | STA. - TO STA. -

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6011	08-00656-00-BR	LASALLE	20	19
WES# 2070388		CONTRACT NO		87657
	ILLINOIS	FED. AID PROJECT		BRS-0099(061)



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USER NAME = brianschumaker	DESIGNED - SAB	REVISED -	
PLOT SCALE = -	DRAWN - BDS	REVISED -	
PLOT DATE = 3/30/17	CHECKED - -	REVISED -	
FILE NAME = rc001001.dwg	DATE - 02/01/2017	REVISED -	

LASALLE COUNTY - CITY OF MENDOTA

CROSS SECTIONS

SCALE: 1"=5' | SHEET - OF - SHEETS | STA. - | TO STA. -

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6011	08-00656-00-BR	LASALLE	20	20
WES# 2070388		CONTRACT NO	87657	
	ILLINOIS	FED. AID PROJECT	BRS-0099(061)	